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Laboratory Code: 11148

SDG Number: L2410579

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MW-7S (L2410579-07) Analyzed: 03/02/24 20:16 3807
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MW-5S (L2410579-05) Analyzed: 03/05/24 09:39 3834
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Pesticides L3 (2.0ug/L) Injected on: 12/15/23 17:24 3913
Pesticides L4 (3.0ug/L) Injected on: 12/15/23 17:36 3932
Pesticides L5 (4.0ug/L) Injected on: 12/15/23 17:48 3954
Pesticides L7 (10.0ug/L) Injected on: 12/15/23 18:01 3968
Pesticides L8 (50.0ug/L) Injected on: 12/15/23 18:13 3989
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Chlordane L4 (20ug/L) Injected on: 12/15/23 19:28 4128
Chlordane L5 (100ug/L) Injected on: 12/15/23 19:40 4134
Chlordane L7 (500ug/L) Injected on: 12/15/23 19:53 4141
Chlordane L8 (1000ug/L) Injected on: 12/15/23 20:05 4148
Chlordane L9 (2000ug/L) Injected on: 12/15/23 20:17 4154
Chlordane L10 (5000ug/L) Injected on: 12/15/23 20:30 4161
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ICV Summary Form Injected on: 12/15/23 21:32 4194
ICV Quant Report Injected on: 12/15/23 21:32 4197
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Pesticides L3 (2.0ug/L) Injected on: 12/19/23 14:12 4276
Pesticides L4 (3.0ug/L) Injected on: 12/19/23 14:23 4320
Pesticides L5 (4.0ug/L) Injected on: 12/19/23 14:35 4367
Pesticides L7 (10.0ug/L) Injected on: 12/19/23 14:47 4410
Pesticides L8 (50.0ug/L) Injected on: 12/19/23 14:59 4448
Pesticides L9 (100ug/L) Injected on: 12/19/23 15:11 4468
Pesticides L10 (200ug/L) Injected on: 12/19/23 15:23 4504
Pesticides L11 (400ug/L) Injected on: 12/19/23 15:35 4549
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Chlordane L4 (20ug/L) Injected on: 12/19/23 16:10 4630
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Chlordane L7 (500ug/L) - Injected on: 12/19/23 16:34 4640
Chlordane L8 (1000ug/L) Injected on: 12/19/23 16:46 4644
Chlordane L9 (2000ug/L) Injected on: 12/19/23 16:58 4648
Chlordane L10 (5000ug/L) Injected on: 12/19/23 17:10 4653
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ICV Summary Form Injected on: 12/19/23 17:21 4659
ICV Quant Report Injected on: 12/19/23 17:21 4662
Toxaphene L3 (20.0ug/L) Injected on: 12/19/23 17:33 4668
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Toxaphene L9 (5000ug/L) Injected on: 12/19/23 17:57 4679

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Pesticides L3 (2.0ug/L) Injected on: 01/08/24 15:23 4731
Pesticides L4 (3.0ug/L) Injected on: 01/08/24 15:35 4752
Pesticides L5 (4.0ug/L) Injected on: 01/08/24 15:47 4771
Pesticides L7 (10.0ug/L) Injected on: 01/08/24 15:59 4796
Pesticides L8 (50.0ug/L) Injected on: 01/08/24 16:11 4806
Pesticides L9 (100ug/L) Injected on: 01/08/24 16:23 4817
Pesticides L10 (200ug/L) Injected on: 01/08/24 16:34 4827
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Chlordane L4 (20ug/L) Injected on: 01/08/24 17:22 4885
Chlordane L5 (100ug/L) Injected on: 01/08/24 17:34 4890
Chlordane L7 (500ug/L) Injected on: 01/08/24 17:46 4894
Chlordane L8 (1000ug/L) Injected on: 01/08/24 17:58 4898
Chlordane L9 (2000ug/L) Injected on: 01/08/24 18:10 4902
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CC Quant - WG1891472-2 PEST20 Run: 03/02/24 07:08 5000
CC Summary - PEST20 Run: 03/02/24 07:20 5005
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Project Number: 20116

Lab Number: L2410579
Report Date: 03/13/24

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2410579-01	MW-1S	WATER	SPEONK, NY	02/26/24 14:10	02/27/24
L2410579-02	MW-2S	WATER	SPEONK, NY	02/26/24 15:25	02/27/24
L2410579-03	MW-3S	WATER	SPEONK, NY	02/26/24 16:30	02/27/24
L2410579-04	MW-4D	WATER	SPEONK, NY	02/27/24 09:05	02/27/24
L2410579-05	MW-5S	WATER	SPEONK, NY	02/27/24 08:40	02/27/24
L2410579-06	MW-6D	WATER	SPEONK, NY	02/26/24 16:35	02/27/24
L2410579-07	MW-7S	WATER	SPEONK, NY	02/26/24 14:45	02/27/24
L2410579-08	MW-8S	WATER	SPEONK, NY	02/27/24 10:25	02/27/24
L2410579-09	DUP	WATER	SPEONK, NY	02/26/24 00:00	02/27/24
L2410579-10	EB	WATER	SPEONK, NY	02/27/24 09:15	02/27/24
L2410579-11	TB	WATER	SPEONK, NY	02/26/24 00:00	02/27/24

Case Narrative

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

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

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

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

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

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

Case Narrative (continued)

Report Submission
March 13, 2024: This final report includes the results of all requested analyses.
March 06, 2024: This is a preliminary report.

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

The analysis of Iodide was subcontracted. A copy of the laboratory report is included as an addendum. Please note: This data is only available in PDF format and is not available on Data Merger.

Sample Receipt
The analyses performed were specified by the client.
L2410579-01, -02, -03, -04, -05, and -08: Headspace was noted in the sample container submitted for Carbonate Alkalinity - SM 2320 and Bicarbonate Alkalinity - SM 2320.

Semivolatile Organics by SIM
The WG1891420-1 Method Blank, associated with L2410579-01, has a concentration above the reporting limit for Naphthalene; however, re-extraction outside of holding time achieved similar results. The results of both extractions are reported and are qualified with a "B".
The WG1891420-1 Method Blank, associated with L2410579-06, has a concentration above the reporting limit for Naphthalene; however, re-extraction achieved similar results. The results of both extractions are reported and are qualified with a "B".
The WG1891420-1 Method Blank, associated with L2410579-07, has a concentration above the reporting limit for Naphthalene. Since the associated sample concentrations are either greater than 10x the blank concentration or non-detect to the RL for this target analyte, no corrective action is required. Any results detected below the reporting limit are qualified with a "B".
The WG1892049-1 Method Blank, associated with L2410579-02, -03, -08, -09, and -10, has a concentration above the reporting limit for Naphthalene, Benzo(a)anthracene, Benzo(b)fluoranthene, Chrysene, and Pyrene.

Case Narrative (continued)

Since the associated sample concentrations are either greater than 10x the blank concentration or non-detect to the RL for this target analyte, no corrective action is required. Any results detected below the reporting limit are qualified with a "B".
The WG1892049-1 Method Blank, associated with L2410579-01RE, -05, and -06RE, has concentrations above the reporting limits for Naphthalene, Benzo(a)anthracene, Benzo(b)fluoranthene, Chrysene, and Pyrene; however, re-extraction achieved similar results. The results of both extractions are reported and are qualified with a "B".
The WG1892407-1 Method Blank, associated with L2410579-04, has a concentration above the reporting limit for Naphthalene. Since the associated sample concentrations are either greater than 10x the blank concentration or non-detect to the RL for this target analyte, no corrective action is required. Any results detected below the reporting limit are qualified with a "B".
The WG1892407-1 Method Blank, associated with L2410579-05RE, has a concentration above the reporting limit for Naphthalene; however, re-extraction could not be performed due to lack of additional sample volume. The results of both extractions are reported and are qualified with a "B"

Total Metals
The WG1891173-3/-4 MS/MSD recoveries, performed on L2410579-08, are outside the acceptance criteria for calcium (MSD 57%) and sodium (128%/68%). A post digestion spike was performed and was within acceptance criteria.

Dissolved Metals
The WG1891325-3/-4 MS/MSD recoveries, performed on L2410579-08, are outside the acceptance criteria for calcium (53%/37%), potassium (71%/52%), and sodium (47%/20%). A post digestion spike was performed and was within acceptance criteria.

Nitrogen, Total Kjeldahl
The WG1890943-3 Laboratory Duplicate RPD for nitrogen, total kjeldahl (40%), performed on L2410579-02, is above the acceptance criteria; however, the sample and duplicate results are less than five times the reporting

Case Narrative (continued)

limit. Therefore, the RPD is valid.

Anions by Ion Chromatography

The WG1890909-3 MS recoveries, performed on L2410579-02, are outside the acceptance criteria for sulfate (89%), chloride (88%), and bromide (78%); however, the associated LCS recoveries are within criteria. No further action was taken.

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

Authorized Signature: Tiffani Morrissey Report Date: 03/13/24

Title: Technical Director/Representative

DATA PACKAGE GLOSSARY

Acronyms

DL - Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

EDL - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).

EMPC - Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.

EPA - Environmental Protection Agency.

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

LFB - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LOD - Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

LOQ - Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

MDL - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

NDPA/DPA - N-Nitrosodiphenylamine/Diphenylamine.

NI - Not Ignitable.

NP - Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.

NR - No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.

RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

SRM - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

STLP - Semi-dynamic Tank Leaching Procedure per EPA Method 1315.

TEF - Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.

TEQ - Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.

TIC - Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: DU Report with 'J' Qualifiers

Footnotes

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

Terms

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

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

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

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

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

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

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

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

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

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

Data Qualifiers

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

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

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

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

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

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

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

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

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

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

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

Report Format: DU Report with 'J' Qualifiers

Data Qualifiers

the identification is based on a mass spectral library search.

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

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

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

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

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

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

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

Volatile Organics Instruments

Volatile Organics:

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

Volatile Organics: VPH

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

Volatile Organics: PIANO

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

Volatile Organics: Dissolved Gas

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

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

Volatile Organics in Air Instruments

Volatile Organics in Air:

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

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

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

Semivolatile Organics Instruments - Westborough

Semivolatile Organics (Acid/Base/Neutral Extractables):

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

Polynuclear Aromatic Hydrocarbons by 8270 SIM:

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

Pesticides/PCB/Herbicides:

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

Petroleum/EPH:

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

Semivolatile Organic Instruments - Mansfield

Semivolatile Organics (ALK-PAH Extractables):

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

Semivolatile Organics (8270):

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

Semivolatile Organics (8270 SIM):

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

Semivolatile Organics (1,4-Dioxane):

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

Semivolatile Organics (209 Congener):

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

Semivolatile Organics (8081):

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

Semivolatile Organics (8082):

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

Semivolatile Organics (SHC Extractables):

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

Sample Delivery Group Summary

Alpha Job Number : L2410579

Received : 27-FEB-2024
Reviewer : Jamie Reyes

Account Name : Alpha Geoscience
Project Number : 20116
Project Name : HUNTINGTON READY MIX

Delivery Information

Samples Delivered By : Alpha Courier

Chain of Custody : Present

Cooler Information

Cooler	Seal/Seal#	Preservation	Temperature(°C)	Additional Information
A	Absent/	Ice	2.6	
B	Absent/	Ice	2.8	
C	Absent/	Ice	3.3	
D	Absent/	Ice	3.1	
E	Absent/	Ice	4.2	
F	Absent/	Ice	3.4	

Condition Information

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

2) Extra samples received? **NO**

3) Are there any sample container discrepancies? **NO**

4) Are there any discrepancies between COC & sample labels? **NO**

5) Are samples in appropriate containers for requested analysis? **YES**

6) Are samples properly preserved for requested analysis? **NO**
Following containers were received with headspace: -01K, -02K, -03K, -04K, -05K, -08K

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

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

Volatile Organics/VPH

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

ALPHA ANALYTICAL LABORATORIES, INC.
LOGIN CHAIN OF CUSTODY REPORT
Nov 05 2024, 01:30 pm

Login Number: L2410579
Account: ALPHAGEO Alpha GeoscienceProject: 20116
Received: 27FEB24 Due Date: 13MAR24

Sample #	Client ID	Mat	PR	Collected
L2410579-01	MW-1S		1	S0 26FEB24 14:10

1ZE306540197412126 124.62 USD NYTCL-8260-R2: REPORT LIST BUILT; Non-Routine: Freon-113;Cyclohexane; Methyl Acetate;Methyl cyclohexane NYTCL-8270-LVI: REPORT LIST BUILT; Non-Routine: 1,2,4,5-Tetrachlorobenzene;2,3,4,6-Tetrachlorophenol;Atrazine;Benzaldehyde;Caprolactam ASP-B Package Due Date: 11/05/24

ALK-CO3-2320,ALK-HCO3-2320,ASP-B,BR-300,CL-300,F-300,NH3-350,NYTCL-8081,NYTCL-8082-LVI,NYTCL-8260-R2,NYTCL-8270/SIM-LVI,NYTCL-8270-LVI,NYTCL-8270-SIM-LVI,SO4-300,SUB-IODIDE,SULFIDE-4500,TAL-6020S,AG-6020S,AL-6020S,AS-6020S,BA-6020S,BE-6020S,CA-6020S,CD-6020S,CO-6020S,CR-6020S,CU-6020S,FE-6020S,HG-S,K-6020S,MG-6020S,MN-6020S,NA-6020S,NI-6020S,PB-6020S,PREPS,SB-6020S,SE-6020S,TL-6020S,V-6020S,ZN-6020S,TAL-6020T,AG-6020T,AL-6020T,AS-6020T,BA-6020T,BE-6020T,CA-6020T,CD-6020T,CO-6020T,CR-6020T,CU-6020T,FE-6020T,HG-T,K-6020T,MG-6020T,MN-6020T,NA-6020T,NI-6020T,PB-6020T,PREPT,SB-6020T,SE-6020T,TL-6020T,V-6020T,ZN-6020T,TDS-2540,TOTALNITROGEN,NO3/NO2-4500,TKN-4500,TNITROGEN,TPO4-4500

L2410579-02	MW-2S		1	S0 26FEB24 15:25

NYTCL-8260-R2: REPORT LIST BUILT; Non-Routine: Freon-113;Cyclohexane;Methyl Acetate;Methyl cyclohexane NYTCL-8270-LVI: REPORT LIST BUILT; Non-Routine: 1,2,4,5-Tetrachlorobenzene;2,3,4,6-Tetrachlorophenol; Atrazine;Benzaldehyde;Caprolactam Package Due Date: 11/05/24

ALK-CO3-2320,ALK-HCO3-2320,BR-300,CL-300,F-300,NH3-350,NYTCL-8081,NYTCL-8082-LVI,NYTCL-8260-R2,NYTCL-8270/SIM-LVI,NYTCL-8270-LVI,NYTCL-8270-SIM-LVI,SO4-300,SUB-IODIDE,SULFIDE-4500,TAL-6020S,AG-6020S,AL-6020S,AS-6020S,BA-6020S,BE-6020S,CA-6020S,CD-6020S,CO-6020S,CR-6020S,CU-6020S,FE-6020S,HG-S,K-6020S,MG-6020S,MN-6020S,NA-6020S,NI-6020S,PB-6020S,PREPS,SB-6020S,SE-6020S,TL-6020S,V-6020S,ZN-6020S,TAL-6020T,AG-6020T,AL-6020T,AS-6020T,BA-6020T,BE-6020T,CA-6020T,CD-6020T,CO-6020T,CR-6020T,CU-6020T,FE-6020T,HG-T,K-6020T,MG-6020T,MN-6020T,NA-6020T,NI-6020T,PB-6020T,PREPT,SB-6020T,SE-6020T,TL-6020T,V-6020T,ZN-6020T,TDS-2540,TOTALNITROGEN,NO3/NO2-4500,TKN-4500,TNITROGEN,TPO4-4500

L2410579-03	MW-3S		1	S0 26FEB24 16:30

NYTCL-8260-R2: REPORT LIST BUILT; Non-Routine: Freon-113;Cyclohexane;Methyl Acetate;Methyl cyclohexane NYTCL-8270-LVI: REPORT LIST BUILT; Non-Routine: 1,2,4,5-Tetrachlorobenzene;2,3,4,6-Tetrachlorophenol; Atrazine;Benzaldehyde;Caprolactam Package Due Date: 11/05/24

Sample #	Client ID	Mat	PR	Collected

ALK-CO3-2320,ALK-HCO3-2320,BR-300,CL-300,F-300,NH3-350,NYTCL-8081,NYTCL-8082-LVI,NYTCL-8260-R2,
NYTCL-8270/SIM-LVI,NYTCL-8270-LVI,NYTCL-8270-SIM-LVI,SO4-300,SUB-IODIDE,SULFIDE-4500,TAL-6020S,AG-
6020S,AL-6020S,AS-6020S,BA-6020S,BE-6020S,CA-6020S,CD-6020S,CO-6020S,CR-6020S,CU-6020S,FE-6020S,HG-
S,K-6020S,MG-6020S,MN-6020S,NA-6020S,NI-6020S,PB-6020S,PREPS,SB-6020S,SE-6020S,TL-6020S,V-6020S,ZN-
6020S,TAL-6020T,AG-6020T,AL-6020T,AS-6020T,BA-6020T,BE-6020T,CA-6020T,CD-6020T,CO-6020T,CR-6020T,CU-
6020T,FE-6020T,HG-T,K-6020T,MG-6020T,MN-6020T,NA-6020T,NI-6020T,PB-6020T,PREPT,SB-6020T,SE-6020T,TL-
6020T,V-6020T,ZN-6020T,TDS-2540,TOTALNITROGEN,NO3/NO2-4500,TKN-4500,TNITROGEN,TPO4-4500

L2410579-04	MW-4D		1 S0	27FEB24 09:05

NYTCL-8260-R2: REPORT LIST BUILT; Non-Routine: Freon-113;Cyclohexane;Methyl Acetate;Methyl cyclohexane
NYTCL-8270-LVI: REPORT LIST BUILT; Non-Routine: 1,2,4,5-Tetrachlorobenzene;2,3,4,6-Tetrachlorophenol;
Atrazine;Benzaldehyde;Caprolactam' Package Due Date: 11/05/24

ALK-CO3-2320,ALK-HCO3-2320,BR-300,CL-300,F-300,NH3-350,NYTCL-8081,NYTCL-8082-LVI,NYTCL-8260-R2,
NYTCL-8270/SIM-LVI,NYTCL-8270-LVI,NYTCL-8270-SIM-LVI,SO4-300,SUB-IODIDE,SULFIDE-4500,TAL-6020S,AG-
6020S,AL-6020S,AS-6020S,BA-6020S,BE-6020S,CA-6020S,CD-6020S,CO-6020S,CR-6020S,CU-6020S,FE-6020S,HG-
S,K-6020S,MG-6020S,MN-6020S,NA-6020S,NI-6020S,PB-6020S,PREPS,SB-6020S,SE-6020S,TL-6020S,V-6020S,ZN-
6020S,TAL-6020T,AG-6020T,AL-6020T,AS-6020T,BA-6020T,BE-6020T,CA-6020T,CD-6020T,CO-6020T,CR-6020T,CU-
6020T,FE-6020T,HG-T,K-6020T,MG-6020T,MN-6020T,NA-6020T,NI-6020T,PB-6020T,PREPT,SB-6020T,SE-6020T,TL-
6020T,V-6020T,ZN-6020T,TDS-2540,TOTALNITROGEN,NO3/NO2-4500,TKN-4500,TNITROGEN,TPO4-4500

L2410579-05	MW-5S		1 S0	27FEB24 08:40

NYTCL-8260-R2: REPORT LIST BUILT; Non-Routine: Freon-113;Cyclohexane;Methyl Acetate;Methyl cyclohexane
NYTCL-8270-LVI: REPORT LIST BUILT; Non-Routine: 1,2,4,5-Tetrachlorobenzene;2,3,4,6-Tetrachlorophenol;
Atrazine;Benzaldehyde;Caprolactam' Package Due Date: 11/05/24

ALPHA ANALYTICAL LABORATORIES, INC.
LOGIN CHAIN OF CUSTODY REPORT
Nov 05 2024, 01:30 pm

Login Number: L2410579
Account: ALPHAGEO Alpha GeoscienceProject: 20116
Received: 27FEB24 Due Date: 13MAR24

Sample #	Client ID	Mat	PR	Collected

ALK-CO3-2320,ALK-HCO3-2320,BR-300,CL-300,F-300,NH3-350,NYTCL-8081,NYTCL-8082-LVI,NYTCL-8260-R2,
NYTCL-8270/SIM-LVI,NYTCL-8270-LVI,NYTCL-8270-SIM-LVI,SO4-300,SUB-IODIDE,SULFIDE-4500,TAL-6020S,AG-
6020S,AL-6020S,AS-6020S,BA-6020S,BE-6020S,CA-6020S,CD-6020S,CO-6020S,CR-6020S,CU-6020S,FE-6020S,HG-
S,K-6020S,MG-6020S,MN-6020S,NA-6020S,NI-6020S,PB-6020S,PREPS,SB-6020S,SE-6020S,TL-6020S,V-6020S,ZN-
6020S,TAL-6020T,AG-6020T,AL-6020T,AS-6020T,BA-6020T,BE-6020T,CA-6020T,CD-6020T,CO-6020T,CR-6020T,CU-
6020T,FE-6020T,HG-T,K-6020T,MG-6020T,MN-6020T,NA-6020T,NI-6020T,PB-6020T,PREPT,SB-6020T,SE-6020T,TL-
6020T,V-6020T,ZN-6020T,TDS-2540,TOTALNITROGEN,NO3/NO2-4500,TKN-4500,TNITROGEN,TPO4-4500

L2410579-06 MW-6D 1 S0 26FEB24 16:35

NYTCL-8260-R2: REPORT LIST BUILT; Non-Routine: Freon-113;Cyclohexane;Methyl Acetate;Methyl cyclohexane
NYTCL-8270-LVI: REPORT LIST BUILT; Non-Routine: 1,2,4,5-Tetrachlorobenzene;2,3,4,6-Tetrachlorophenol;
Atrazine;Benzaldehyde;Caprolactam' Package Due Date: 11/05/24

ALK-CO3-2320,ALK-HCO3-2320,BR-300,CL-300,F-300,NH3-350,NYTCL-8081,NYTCL-8082-LVI,NYTCL-8260-R2,
NYTCL-8270/SIM-LVI,NYTCL-8270-LVI,NYTCL-8270-SIM-LVI,SO4-300,SUB-IODIDE,SULFIDE-4500,TAL-6020S,AG-
6020S,AL-6020S,AS-6020S,BA-6020S,BE-6020S,CA-6020S,CD-6020S,CO-6020S,CR-6020S,CU-6020S,FE-6020S,HG-
S,K-6020S,MG-6020S,MN-6020S,NA-6020S,NI-6020S,PB-6020S,PREPS,SB-6020S,SE-6020S,TL-6020S,V-6020S,ZN-
6020S,TAL-6020T,AG-6020T,AL-6020T,AS-6020T,BA-6020T,BE-6020T,CA-6020T,CD-6020T,CO-6020T,CR-6020T,CU-
6020T,FE-6020T,HG-T,K-6020T,MG-6020T,MN-6020T,NA-6020T,NI-6020T,PB-6020T,PREPT,SB-6020T,SE-6020T,TL-
6020T,V-6020T,ZN-6020T,TDS-2540,TOTALNITROGEN,NO3/NO2-4500,TKN-4500,TNITROGEN,TPO4-4500

L2410579-07 MW-7S 1 S0 26FEB24 14:45

NYTCL-8260-R2: REPORT LIST BUILT; Non-Routine: Freon-113;Cyclohexane;Methyl Acetate;Methyl cyclohexane
NYTCL-8270-LVI: REPORT LIST BUILT; Non-Routine: 1,2,4,5-Tetrachlorobenzene;2,3,4,6-Tetrachlorophenol;
Atrazine;Benzaldehyde;Caprolactam' Package Due Date: 11/05/24

ALPHA ANALYTICAL LABORATORIES, INC.
LOGIN CHAIN OF CUSTODY REPORT
Nov 05 2024, 01:30 pm

Login Number: L2410579
Account: ALPHAGEO Alpha GeoscienceProject: 20116
Received: 27FEB24 Due Date: 13MAR24

Sample #	Client ID	Mat	PR	Collected

ALK-CO3-2320,ALK-HCO3-2320,BR-300,CL-300,F-300,NH3-350,NYTCL-8081,NYTCL-8082-LVI,NYTCL-8260-R2, NYTCL-8270/SIM-LVI,NYTCL-8270-LVI,NYTCL-8270-SIM-LVI,SO4-300,SUB-IODIDE,SULFIDE-4500,TAL-6020S,AG-6020S,AL-6020S,AS-6020S,BA-6020S,BE-6020S,CA-6020S,CD-6020S,CO-6020S,CR-6020S,CU-6020S,FE-6020S,HG-S,K-6020S,MG-6020S,MN-6020S,NA-6020S,NI-6020S,PB-6020S,PREPS,SB-6020S,SE-6020S,TL-6020S,V-6020S,ZN-6020S,TAL-6020T,AG-6020T,AL-6020T,AS-6020T,BA-6020T,BE-6020T,CA-6020T,CD-6020T,CO-6020T,CR-6020T,CU-6020T,FE-6020T,HG-T,K-6020T,MG-6020T,MN-6020T,NA-6020T,NI-6020T,PB-6020T,PREPT,SB-6020T,SE-6020T,TL-6020T,V-6020T,ZN-6020T,TDS-2540,TOTALNITROGEN,NO3/NO2-4500,TKN-4500,TNITROGEN,TPO4-4500

L2410579-08 MW-8S 1 S0 27FEB24 10:25

L2410579-08 MS L2410579-08 MSD NYTCL-8260-R2: REPORT LIST BUILT; Non-Routine: Freon-113;Cyclohexane; Methyl Acetate;Methyl cyclohexane NYTCL-8270-LVI: REPORT LIST BUILT; Non-Routine: 1,2,4,5-Tetrachlorobenzene;2,3,4,6-Tetrachlorophenol;Atrazine;Benzaldehyde;Caprolactam Package Due Date: 11/05/24

ALK-CO3-2320,ALK-HCO3-2320,BR-300,CL-300,F-300,NH3-350,NYTCL-8081,NYTCL-8082-LVI,NYTCL-8260-R2, NYTCL-8270/SIM-LVI,NYTCL-8270-LVI,NYTCL-8270-SIM-LVI,SO4-300,SUB-IODIDE,SULFIDE-4500,TAL-6020S,AG-6020S,AL-6020S,AS-6020S,BA-6020S,BE-6020S,CA-6020S,CD-6020S,CO-6020S,CR-6020S,CU-6020S,FE-6020S,HG-S,K-6020S,MG-6020S,MN-6020S,NA-6020S,NI-6020S,PB-6020S,PREPS,SB-6020S,SE-6020S,TL-6020S,V-6020S,ZN-6020S,TAL-6020T,AG-6020T,AL-6020T,AS-6020T,BA-6020T,BE-6020T,CA-6020T,CD-6020T,CO-6020T,CR-6020T,CU-6020T,FE-6020T,HG-T,K-6020T,MG-6020T,MN-6020T,NA-6020T,NI-6020T,PB-6020T,PREPT,SB-6020T,SE-6020T,TL-6020T,V-6020T,ZN-6020T,TDS-2540,TOTALNITROGEN,NO3/NO2-4500,TKN-4500,TNITROGEN,TPO4-4500

L2410579-09 DUP 1 S0 26FEB24 00:00

L2410579-08 MS L2410579-08 MSD NYTCL-8260-R2: REPORT LIST BUILT; Non-Routine: Freon-113;Cyclohexane; Methyl Acetate;Methyl cyclohexane NYTCL-8270-LVI: REPORT LIST BUILT; Non-Routine: 1,2,4,5-Tetrachlorobenzene;2,3,4,6-Tetrachlorophenol;Atrazine;Benzaldehyde;Caprolactam Package Due Date: 11/05/24

ALPHA ANALYTICAL LABORATORIES, INC.
LOGIN CHAIN OF CUSTODY REPORT
Nov 05 2024, 01:30 pm

Login Number: L2410579
Account: ALPHAGEO Alpha GeoscienceProject: 20116
Received: 27FEB24 Due Date: 13MAR24

Sample #	Client ID	Mat	PR	Collected

ALK-CO3-2320,ALK-HCO3-2320,BR-300,CL-300,F-300,NH3-350,NYTCL-8081,NYTCL-8082-LVI,NYTCL-8260-R2,
NYTCL-8270/SIM-LVI,NYTCL-8270-LVI,NYTCL-8270-SIM-LVI,SO4-300,SUB-IODIDE,SULFIDE-4500,TAL-6020S,AG-
6020S,AL-6020S,AS-6020S,BA-6020S,BE-6020S,CA-6020S,CD-6020S,CO-6020S,CR-6020S,CU-6020S,FE-6020S,HG-
S,K-6020S,MG-6020S,MN-6020S,NA-6020S,NI-6020S,PB-6020S,PREPS,SB-6020S,SE-6020S,TL-6020S,V-6020S,ZN-
6020S,TAL-6020T,AG-6020T,AL-6020T,AS-6020T,BA-6020T,BE-6020T,CA-6020T,CD-6020T,CO-6020T,CR-6020T,CU-
6020T,FE-6020T,HG-T,K-6020T,MG-6020T,MN-6020T,NA-6020T,NI-6020T,PB-6020T,PREPT,SB-6020T,SE-6020T,TL-
6020T,V-6020T,ZN-6020T,TDS-2540,TOTALNITROGEN,NO3/NO2-4500,TKN-4500,TNITROGEN,TPO4-4500

L2410579-10 EB 1 S0 27FEB24 09:15

L2410579-08 MS L2410579-08 MSD NYTCL-8260-R2: REPORT LIST BUILT; Non-Routine: Freon-113;Cyclohexane;
Methyl Acetate;Methyl cyclohexane NYTCL-8270-LVI: REPORT LIST BUILT; Non-Routine: 1,2,4,5-
Tetrachlorobenzene;2,3,4,6-Tetrachlorophenol;Atrazine;Benzaldehyde;Caprolactam Package Due Date:
11/05/24

NYTCL-8081,NYTCL-8082-LVI,NYTCL-8260-R2,NYTCL-8270/SIM-LVI,NYTCL-8270-LVI,NYTCL-8270-SIM-LVI,TAL-
6020S,AG-6020S,AL-6020S,AS-6020S,BA-6020S,BE-6020S,CA-6020S,CD-6020S,CO-6020S,CR-6020S,CU-6020S,FE-
6020S,HG-S,K-6020S,MG-6020S,MN-6020S,NA-6020S,NI-6020S,PB-6020S,PREPS,SB-6020S,SE-6020S,TL-6020S,V-
6020S,ZN-6020S,TAL-6020T,AG-6020T,AL-6020T,AS-6020T,BA-6020T,BE-6020T,CA-6020T,CD-6020T,CO-6020T,CR-
6020T,CU-6020T,FE-6020T,HG-T,K-6020T,MG-6020T,MN-6020T,NA-6020T,NI-6020T,PB-6020T,PREPT,SB-6020T,SE-
6020T,TL-6020T,V-6020T,ZN-6020T

L2410579-11 TB 1 S0 26FEB24 00:00

L2410579-08 MS L2410579-08 MSD NYTCL-8260-R2: REPORT LIST BUILT; Non-Routine: Freon-113;Cyclohexane;
Methyl Acetate;Methyl cyclohexane Package Due Date: 11/05/24

NYTCL-8260-R2

Logged By: Melissa Deyo

NEW YORK CHAIN OF CUSTODY

ALPHA ANALYTICAL

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

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

Page 1 of 2

Date Rec'd in Lab: 2/27/24

ALPHA Job #: L2410579

Client Information
Client: Alpha Geoscience
Address: 679 Plank Rd
Clifton Park NY
Phone: 518 348 6995
Fax:
Email: shulseapple@alphageoscience.com

Project Information
Project Name: Huntington Ready Mixed
Project Location: Speonk NY
Project #: 20116
(Use Project name as Project #) ☑
Project Manager: Scott Hulseapple
ALPHAQuote #:

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

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

Billing Information
☒ Same as Client Info
PO # 20116

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

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

These samples have been previously analyzed by Alpha ☒

Other project specific requirements/comments:
See Bottle order #455729 for clarification on analyte list

Please specify Metals or TAL.

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

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	VOCs 8260 TCL	SVOCs 8270 w/ TCL	Pest/PCBs 8081/8082	Total + Dissolved Metals 15	Sulfide	Total Nit. TKN TPhos TDS	Cl, Br, F, I, SO4 Alk (Calc) (HCO3)	Nitrate/Nitrite Phos	Sample Specific Comments	Total # Bottles
10579-01	MW-1S	2/26/24	1410	WG	NS	X	X	X	X	X	X	X	X		
02	MW-2S	2/26/24	1525	WG	NS										
03	MW-3S	2/26/24	1630	WG	NS										
04	MW-4D	2/27/24	0905	WG	SH										
05	MW-5S	2/27/24	0840	WG	NS										
06	MW-6D	2/26/24	1635	WG	SH										
07	MW-7S	2/26/24	1445	WG	SH										
08	MW-8S	2/27/24	1025	WG	NS/SH	X	X	X	X	X	X	X	X	MW-8S	
	MS/MSD	2/27/24	1025	WG	NS/SH	X	X	X	X						
09	DUP	2/26/24	—	WG	—	X	X	X	X	X	X	X	X		

Container Type	V	A	A	P	P		P	P	
Preservative	B	A	A	C	K/E		A	D	

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

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

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

Relinquished By:	Date/Time	Received By:	Date/Time
	2/27/24 1330	Agna (PAGE)	2/27/24 1336
Agna (PAGE)	2/27/24 1340	Paul Mazzella	2/27/24
Paul Mazzella	2/27/24		2/27/24 2330
	2/27/24 2320		

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

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

NEW YORK CHAIN OF CUSTODY

ALPHA

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

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

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

Page 2 of 2

Date Rec'd in Lab: 2/27/24

ALPHA Job #: L2410579

Client Information
Client: Alpha Geoscience
Address: 679 Plank Rd
Clifton Park
Phone: 518 348 0995
Fax:
Email:

Project Information
Project Name: Huntington Ready Mixed
Project Location: Sprout NY
Project #: 20116
(Use Project name as Project #) ☑
Project Manager: Scott Hulsapple
ALPHAQuote #:

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

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

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

Billing Information
☒ Same as Client Info
PO #

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

These samples have been previously analyzed by Alpha ☒

Other project specific requirements/comments:

Please specify Metals or TAL.

ANALYSIS

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

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	VOCs 8260 TCL	SVOCs 8270 NYTCL	Pest/PCBs 8081/8082	Total + Dissolved metals	Total Bottle	Sample Specific Comments
10579-10	EB	2/27/24	0915	WQ	NS	X	X	X	X		
11	TB	—	—	WQ	—	X					Trip blank

Container Type: V A A P
Preservative: B A A C

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

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

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

Relinquished By:	Date/Time	Received By:	Date/Time
	2/27/24 1330	Agna (ALE)	2/27/24 1820
Agna (ALE)	2/27/24 1940	Paul Maggella	2/27/24
Paul Maggella	2/27/24		2/27/24
	2/27/24 2330		2/27/24 23:20

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

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

Organics

GC/MS 8260
Analysis

Volatiles QC Summary

Surrogate Recovery Summary
Form 2
Volatiles

Client: Alpha Geoscience
Project Name: HUNTINGTON READY MIX

Lab Number: L2410579
Project Number: 20116
Matrix: Water

CLIENT ID (LAB SAMPLE NO.)	SMC1 DCA	SMC2 TOL	SMC3 BFB	SMC4 DBFM	TOT OUT
MW-1S (L2410579-01)	108	103	99	107	0
MW-2S (L2410579-02)	108	102	100	108	0
MW-3S (L2410579-03)	110	102	100	107	0
MW-4D (L2410579-04)	110	102	100	107	0
MW-5S (L2410579-05)	113	102	99	108	0
MW-6D (L2410579-06)	113	100	100	105	0
MW-7S (L2410579-07)	114	101	98	109	0
MW-8S (L2410579-08)	113	102	98	109	0
DUP (L2410579-09)	114	101	98	110	0
EB (L2410579-10)	117	101	98	109	0
TB (L2410579-11)	112	101	97	109	0
WG1891888-3LCS	108	102	97	102	0
WG1891888-4LCSD	111	103	100	103	0
WG1891888-5BLANK	110	102	99	109	0
MW-8SMS	113	101	101	102	0
MW-8SMSD	110	101	100	101	0

QC LIMITS

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

*** Values outside of QC limits**

FORM II NYTCL-8260-R2

Laboratory Control Sample Summary
Form 3
Volatiles

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Matrix (Level)	: WATER (LOW)		
LCS Sample ID	: WG1891888-3	**Analysis Date**	: 03/01/24 08:30
LCSD Sample ID	: WG1891888-4	**Analysis Date**	: 03/01/24 08:54

File ID : V22240301A01

File ID : V22240301A02

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	True (ug/l)	Found (ug/l)	%R	True (ug/l)	Found (ug/l)	%R	RPD	Recovery Limits	RPD Limit
Methylene chloride	10	10	100	10	9.9	99	1	70-130	20
1,1-Dichloroethane	10	12	120	10	11	110	9	70-130	20
Chloroform	10	9.7	97	10	9.9	99	2	70-130	20
Carbon tetrachloride	10	9.8	98	10	10	100	2	63-132	20
1,2-Dichloropropane	10	10	100	10	10	100	0	70-130	20
Dibromochloromethane	10	7.5	75	10	7.7	77	3	63-130	20
1,1,2-Trichloroethane	10	8.1	81	10	8.2	82	1	70-130	20
Tetrachloroethene	10	10	100	10	10	100	0	70-130	20
Chlorobenzene	10	9.4	94	10	9.5	95	1	75-130	20
Trichlorofluoromethane	10	11	110	10	11	110	0	62-150	20
1,2-Dichloroethane	10	10	100	10	10	100	0	70-130	20
1,1,1-Trichloroethane	10	9.8	98	10	10	100	2	67-130	20
Bromodichloromethane	10	8.7	87	10	9.1	91	4	67-130	20
trans-1,3-Dichloropropene	10	8.0	80	10	7.9	79	1	70-130	20
cis-1,3-Dichloropropene	10	8.6	86	10	8.7	87	1	70-130	20
Bromoform	10	7.0	70	10	7.8	78	11	54-136	20
1,1,2,2-Tetrachloroethane	10	8.6	86	10	9.4	94	9	67-130	20
Benzene	10	10	100	10	10	100	0	70-130	20
Toluene	10	9.8	98	10	10	100	2	70-130	20
Ethylbenzene	10	10	100	10	10	100	0	70-130	20
Chloromethane	10	12	120	10	11	110	9	64-130	20
Bromomethane	10	5.6	56	10	5.3	53	6	39-139	20
Vinyl chloride	10	12	120	10	11	110	9	55-140	20
Chloroethane	10	12	120	10	11	110	9	55-138	20
1,1-Dichloroethene	10	11	110	10	11	110	0	61-145	20
trans-1,2-Dichloroethene	10	10	100	10	10	100	0	70-130	20

Laboratory Control Sample Summary
Form 3
Volatiles

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Matrix (Level)	: WATER (LOW)		
LCS Sample ID	: WG1891888-3	**Analysis Date** : 03/01/24 08:30	**File ID** : V22240301A01
LCSD Sample ID	: WG1891888-4	**Analysis Date** : 03/01/24 08:54	**File ID** : V22240301A02

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	True (ug/l)	Found (ug/l)	%R	True (ug/l)	Found (ug/l)	%R	RPD	Recovery Limits	RPD Limit
Trichloroethene	10	8.9	89	10	9.2	92	3	70-130	20
1,2-Dichlorobenzene	10	9.1	91	10	9.4	94	3	70-130	20
1,3-Dichlorobenzene	10	9.4	94	10	9.5	95	1	70-130	20
1,4-Dichlorobenzene	10	9.1	91	10	9.4	94	3	70-130	20
Methyl tert butyl ether	10	9.0	90	10	9.6	96	6	63-130	20
p/m-Xylene	20	20	100	20	20	100	0	70-130	20
o-Xylene	20	19	95	20	19	95	0	70-130	20
cis-1,2-Dichloroethene	10	10	100	10	10	100	0	70-130	20
Styrene	20	19	95	20	19	95	0	70-130	20
Dichlorodifluoromethane	10	11	110	10	10	100	10	36-147	20
Acetone	10	9.9	99	10	9.9	99	0	58-148	20
Carbon disulfide	10	11	110	10	11	110	0	51-130	20
2-Butanone	10	8.6	86	10	9.9	99	14	63-138	20
4-Methyl-2-pentanone	10	8.6	86	10	9.6	96	11	59-130	20
2-Hexanone	10	8.2	82	10	8.7	87	6	57-130	20
Bromochloromethane	10	9.9	99	10	10	100	1	70-130	20
1,2-Dibromoethane	10	8.4	84	10	8.8	88	5	70-130	20
1,2-Dibromo-3-chloropropane	10	6.9	69	10	7.4	74	7	41-144	20
Isopropylbenzene	10	9.8	98	10	10	100	2	70-130	20
1,2,3-Trichlorobenzene	10	10	100	10	10	100	0	70-130	20
1,2,4-Trichlorobenzene	10	10	100	10	10	100	0	70-130	20
Methyl Acetate	10	11	110	10	11	110	0	70-130	20
Cyclohexane	10	13	130	10	14	140 Q	7	70-130	20
1,4-Dioxane	500	440	88	500	440	88	0	56-162	20
Freon-113	10	12	120	10	12	120	0	70-130	20
Methyl cyclohexane	10	10	100	10	10	100	0	70-130	20

Matrix Spike Sample Summary
Form 3
Volatiles

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Client Sample ID	: MW-8S	**Matrix (Level)**	: WATER (LOW)
Lab Sample ID	: L2410579-08	**Analysis Date**	: 03/01/24 13:22
Matrix Spike	: WG1891888-6	**MS Analysis Date**	: 03/01/24 18:39
Matrix Spike Dup	: WG1891888-7	**MSD Analysis Date**	: 03/01/24 19:03

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	Sample Conc. (ug/l)	Spike Added (ug/l)	Spike Conc. (ug/l)	%R	Spike Added (ug/l)	Spike Conc. (ug/l)	%R	RPD	Recovery Limits	RPD Limit
Methylene chloride	ND	10	9.3	93	10	9.7	97	4	70-130	20
1,1-Dichloroethane	ND	10	11	110	10	11	110	0	70-130	20
Chloroform	ND	10	9.4	94	10	9.8	98	4	70-130	20
Carbon tetrachloride	ND	10	9.8	98	10	11	110	12	63-132	20
1,2-Dichloropropane	ND	10	10	100	10	11	110	10	70-130	20
Dibromochloromethane	ND	10	7.4	74	10	8.2	82	10	63-130	20
1,1,2-Trichloroethane	ND	10	8.0	80	10	8.5	85	6	70-130	20
Tetrachloroethene	ND	10	10	100	10	12	120	18	70-130	20
Chlorobenzene	ND	10	8.9	89	10	9.8	98	10	75-130	20
Trichlorofluoromethane	ND	10	11	110	10	12	120	9	62-150	20
1,2-Dichloroethane	ND	10	10	100	10	10	100	0	70-130	20
1,1,1-Trichloroethane	ND	10	10	100	10	11	110	10	67-130	20
Bromodichloromethane	ND	10	8.7	87	10	9.2	92	6	67-130	20
trans-1,3-Dichloropropene	ND	10	7.6	76	10	8.2	82	8	70-130	20
cis-1,3-Dichloropropene	ND	10	8.2	82	10	8.6	86	5	70-130	20
Bromoform	ND	10	7.3	73	10	7.9	79	8	54-136	20
1,1,2,2-Tetrachloroethane	ND	10	9.2	92	10	9.5	95	3	67-130	20
Benzene	ND	10	10	100	10	10	100	0	70-130	20
Toluene	ND	10	9.4	94	10	10	100	6	70-130	20
Ethylbenzene	ND	10	9.5	95	10	11	110	15	70-130	20
Chloromethane	ND	10	11	110	10	11	110	0	64-130	20
Bromomethane	ND	10	4.2	42	10	5.2	52	21 Q	39-139	20

Matrix Spike Sample Summary
Form 3
Volatiles

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Client Sample ID	: MW-8S	**Matrix (Level)**	: WATER (LOW)
Lab Sample ID	: L2410579-08	**Analysis Date**	: 03/01/24 13:22
Matrix Spike	: WG1891888-6	**MS Analysis Date**	: 03/01/24 18:39
Matrix Spike Dup	: WG1891888-7	**MSD Analysis Date**	: 03/01/24 19:03

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	Sample Conc. (ug/l)	Spike Added (ug/l)	Spike Conc. (ug/l)	%R	Spike Added (ug/l)	Spike Conc. (ug/l)	%R	RPD	Recovery Limits	RPD Limit
Vinyl chloride	ND	10	11	110	10	11	110	0	55-140	20
Chloroethane	ND	10	10	100	10	11	110	10	55-138	20
1,1-Dichloroethene	ND	10	10	100	10	11	110	10	61-145	20
trans-1,2-Dichloroethene	ND	10	10	100	10	10	100	0	70-130	20
Trichloroethene	ND	10	8.9	89	10	9.6	96	8	70-130	20
1,2-Dichlorobenzene	ND	10	8.7	87	10	9.6	96	10	70-130	20
1,3-Dichlorobenzene	ND	10	8.7	87	10	9.9	99	13	70-130	20
1,4-Dichlorobenzene	ND	10	8.9	89	10	9.7	97	9	70-130	20
Methyl tert butyl ether	ND	10	9.5	95	10	9.8	98	3	63-130	20
p/m-Xylene	ND	20	18	90	20	21	105	15	70-130	20
o-Xylene	ND	20	18	90	20	20	100	11	70-130	20
cis-1,2-Dichloroethene	ND	10	9.5	95	10	9.9	99	4	70-130	20
Styrene	ND	20	18	90	20	20	100	11	70-130	20
Dichlorodifluoromethane	ND	10	9.6	96	10	10	100	4	36-147	20
Acetone	ND	10	11	110	10	11	110	0	58-148	20
Carbon disulfide	ND	10	10	100	10	11	110	10	51-130	20
2-Butanone	ND	10	9.0	90	10	10	100	11	63-138	20
4-Methyl-2-pentanone	ND	10	9.2	92	10	9.5	95	3	59-130	20
2-Hexanone	ND	10	9.0	90	10	9.7	97	7	57-130	20
Bromochloromethane	ND	10	9.6	96	10	9.8	98	2	70-130	20
1,2-Dibromoethane	ND	10	8.5	85	10	8.9	89	5	70-130	20
1,2-Dibromo-3-chloropropane	ND	10	7.0	70	10	7.5	75	7	41-144	20

Matrix Spike Sample Summary
Form 3
Volatiles

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Client Sample ID	: MW-8S	**Matrix (Level)**	: WATER (LOW)
Lab Sample ID	: L2410579-08	**Analysis Date**	: 03/01/24 13:22
Matrix Spike	: WG1891888-6	**MS Analysis Date**	: 03/01/24 18:39
Matrix Spike Dup	: WG1891888-7	**MSD Analysis Date**	: 03/01/24 19:03

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	Sample Conc. (ug/l)	Spike Added (ug/l)	Spike Conc. (ug/l)	%R	Spike Added (ug/l)	Spike Conc. (ug/l)	%R	RPD	Recovery Limits	RPD Limit
Isopropylbenzene	ND	10	9.4	94	10	11	110	16	70-130	20
1,2,3-Trichlorobenzene	ND	10	9.6	96	10	10	100	4	70-130	20
1,2,4-Trichlorobenzene	ND	10	9.5	95	10	10	100	5	70-130	20
Methyl Acetate	ND	10	9.9	99	10	10	100	1	70-130	20
Cyclohexane	ND	10	12	120	10	14	140 Q	15	70-130	20
1,4-Dioxane	ND	500	400	80	500	400	80	0	56-162	20
Freon-113	ND	10	11	110	10	12	120	9	70-130	20
Methyl cyclohexane	ND	10	9.1J	91	10	10	100	9	70-130	20

Method Blank Summary
Form 4
Volatiles

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab Sample ID	: WG1891888-5	**Lab File ID**	: V22240301A05
Instrument ID	: VOA122		
Matrix	: WATER	**Analysis Date**	: 03/01/24 10:07

Client Sample No.	Lab Sample ID	Analysis Date
WG1891888-3LCS	WG1891888-3	03/01/24 08:30
WG1891888-4LCSD	WG1891888-4	03/01/24 08:54
MW-1S	L2410579-01	03/01/24 10:31
MW-2S	L2410579-02	03/01/24 10:55
MW-3S	L2410579-03	03/01/24 11:20
MW-4D	L2410579-04	03/01/24 11:44
MW-5S	L2410579-05	03/01/24 12:08
MW-6D	L2410579-06	03/01/24 12:33
MW-7S	L2410579-07	03/01/24 12:58
MW-8S	L2410579-08	03/01/24 13:22
DUP	L2410579-09	03/01/24 13:46
EB	L2410579-10	03/01/24 14:11
TB	L2410579-11	03/01/24 14:35
MW-8SMS	WG1891888-6	03/01/24 18:39
MW-8SMSD	WG1891888-7	03/01/24 19:03

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

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Instrument ID	: VOA122	**Analysis Date**	: 01/22/24 21:40
Tune Standard	: WG1877676-1	**Tune File ID**	: V22240122NBF1_tune

m/e	Ion Abundance Criteria	%Relative Abundance
50	15.0 - 40.0% of mass 95	22
75	30.0 - 80.0% of mass 95	47.4
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.7
173	Less than 2.0% of mass 174	0 (0)1
174	Greater than 50.0% of mass 95	76.3
175	5.0 - 9.0% of mass 174	5.8 (7.5)1
176	Greater than 95.0% but less than 101% of mass	72.7 (95.3)1
177	5.0 - 9.0% of mass 176	4.6 (6.3)2

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

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

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
STD0.19PPB	R1787880-1	V22240122N03	01/22/24 22:47
STD2PPB	R1787880-2	V22240122N07	01/23/24 00:24
STD10PPB	R1787880-3	V22240122N08	01/23/24 00:48
STD30PPB	R1787880-4	V22240122N09	01/23/24 01:13
STD80PPB	R1787880-5	V22240122N10	01/23/24 01:37
STD120PPB	R1787880-6	V22240122N11	01/23/24 02:01
STD200PPB	R1787880-7	V22240122N12	01/23/24 02:25

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

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Instrument ID	: VOA122	**Analysis Date**	: 01/23/24 20:59
Tune Standard	: WG1877676-2	**Tune File ID**	: V22240123NBF1_tune

m/e	Ion Abundance Criteria	%Relative Abundance
50	15.0 - 40.0% of mass 95	21.7
75	30.0 - 80.0% of mass 95	47.3
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.8
173	Less than 2.0% of mass 174	0.2 (.3)1
174	Greater than 50.0% of mass 95	76.4
175	5.0 - 9.0% of mass 174	5.8 (7.6)1
176	Greater than 95.0% but less than 101% of mass	73.7 (96.4)1
177	5.0 - 9.0% of mass 176	4.8 (6.5)2

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

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

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
STD0.5PPB	R1787880-8	V22240123N03	01/23/24 22:06
ICV Quant Report	R1787880-9	V22240123N06	01/23/24 23:19

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

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Instrument ID	: VOA122	**Analysis Date**	: 03/01/24 08:17
Tune Standard	: WG1891888-1	**Tune File ID**	: V222403001ABF1_tune

m/e	Ion Abundance Criteria	%Relative Abundance
50	15.0 - 40.0% of mass 95	23.2
75	30.0 - 80.0% of mass 95	50.3
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	7.1
173	Less than 2.0% of mass 174	0.3 (.3)1
174	Greater than 50.0% of mass 95	84.6
175	5.0 - 9.0% of mass 174	6 (7.1)1
176	Greater than 95.0% but less than 101% of mass	81.1 (95.9)1
177	5.0 - 9.0% of mass 176	5.5 (6.8)2

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

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

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
WG1891888-2CCAL	WG1891888-2	V22240301A01	03/01/24 08:30
WG1891888-3LCS	WG1891888-3	V22240301A01	03/01/24 08:30
WG1891888-4LCSD	WG1891888-4	V22240301A02	03/01/24 08:54
WG1891888-5BLANK	WG1891888-5	V22240301A05	03/01/24 10:07
MW-1S	L2410579-01	V22240301A06	03/01/24 10:31
MW-2S	L2410579-02	V22240301A07	03/01/24 10:55
MW-3S	L2410579-03	V22240301A08	03/01/24 11:20
MW-4D	L2410579-04	V22240301A09	03/01/24 11:44
MW-5S	L2410579-05	V22240301A10	03/01/24 12:08
MW-6D	L2410579-06	V22240301A11	03/01/24 12:33
MW-7S	L2410579-07	V22240301A12	03/01/24 12:58
MW-8S	L2410579-08	V22240301A13	03/01/24 13:22
DUP	L2410579-09	V22240301A14	03/01/24 13:46
EB	L2410579-10	V22240301A15	03/01/24 14:11
TB	L2410579-11	V22240301A16	03/01/24 14:35
WG1891888-6MS	WG1891888-6	V22240301A26	03/01/24 18:39
WG1891888-7MSD	WG1891888-7	V22240301A27	03/01/24 19:03

Internal Standard Area and RT Summary
Form 8a
Volatiles

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Instrument ID	: VOA122	**Analysis Date**	: 03/01/24 08:30:00
Sample No	: WG1891888-2	**Lab File ID**	: V22240301A01

	Fluorobenzene (IS)		Chlorobenzene-d5		1,4-Dichlorobenzene-D4	
	Area	RT	Area	RT	Area	RT
WG1891888-2	514325	5.99	441026	9.53	230262	12.24
Upper Limit	1028650	6.49	882052	10.03	460524	12.74
Lower Limit	257163	5.49	220513	9.03	115131	11.74
Sample ID						
WG1891888-3 LCS	514325	5.99	441026	9.53	230262	12.24
WG1891888-4 LCSD	517122	5.99	442180	9.53	223735	12.24
WG1891888-5 BLANK	472354	5.99	424434	9.53	213978	12.24
MW-1S	450366	5.99	399964	9.53	198563	12.24
MW-2S	454111	5.99	406428	9.53	204440	12.24
MW-3S	455957	5.99	409840	9.53	204794	12.24
MW-4D	458813	5.99	412446	9.53	206967	12.24
MW-5S	470133	5.99	414938	9.53	213963	12.24
MW-6D	488433	5.99	423249	9.53	214904	12.24
MW-7S	462973	5.99	414708	9.53	212319	12.24
MW-8S	449769	6.00	403643	9.53	206617	12.24
DUP	444524	5.99	399260	9.53	207373	12.24
EB	432350	5.99	388503	9.53	199563	12.24
TB	437624	5.99	390010	9.53	202045	12.24
MW-8S MS	471164	5.99	400854	9.53	205162	12.24
MW-8S MSD	482419	5.99	401676	9.53	205662	12.24

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

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

* Values outside of QC limits

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

Volatile Organics - EPA 8260D (WATER)

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

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

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

Volatile Organics - EPA 8260D (WATER)

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

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

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

Date Created: 03/15/23
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File: PM14095-1
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VOCs - EPA 8260D/5035 High & Low (SOIL)

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

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

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

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

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

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

Volatiles Sample Data

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2410579-01	**Date Collected**	: 02/26/24 14:10
Client ID	: MW-1S	**Date Received**	: 02/27/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 03/01/24 10:31
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: MJV
Lab File ID	: V22240301A06	**Instrument ID**	: VOA122
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

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

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2410579-01	**Date Collected**	: 02/26/24 14:10
Client ID	: MW-1S	**Date Received**	: 02/27/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 03/01/24 10:31
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: MJV
Lab File ID	: V22240301A06	**Instrument ID**	: VOA122
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
156-60-5	trans-1,2-Dichloroethene	ND	2.5	0.70	U
79-01-6	Trichloroethene	ND	0.50	0.18	U
95-50-1	1,2-Dichlorobenzene	ND	2.5	0.70	U
541-73-1	1,3-Dichlorobenzene	ND	2.5	0.70	U
106-46-7	1,4-Dichlorobenzene	ND	2.5	0.70	U
1634-04-4	Methyl tert butyl ether	ND	2.5	0.70	U
179601-23-1	p/m-Xylene	ND	2.5	0.70	U
95-47-6	o-Xylene	ND	2.5	0.70	U
156-59-2	cis-1,2-Dichloroethene	ND	2.5	0.70	U
100-42-5	Styrene	ND	2.5	0.70	U
75-71-8	Dichlorodifluoromethane	ND	5.0	1.0	U
67-64-1	Acetone	ND	5.0	1.5	U
75-15-0	Carbon disulfide	ND	5.0	1.0	U
78-93-3	2-Butanone	ND	5.0	1.9	U
108-10-1	4-Methyl-2-pentanone	ND	5.0	1.0	U
591-78-6	2-Hexanone	ND	5.0	1.0	U
74-97-5	Bromochloromethane	ND	2.5	0.70	U
106-93-4	1,2-Dibromoethane	ND	2.0	0.65	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.5	0.70	U
98-82-8	Isopropylbenzene	ND	2.5	0.70	U
87-61-6	1,2,3-Trichlorobenzene	ND	2.5	0.70	U
120-82-1	1,2,4-Trichlorobenzene	ND	2.5	0.70	U
79-20-9	Methyl Acetate	ND	2.0	0.23	U
110-82-7	Cyclohexane	ND	10	0.27	U
123-91-1	1,4-Dioxane	ND	250	61.	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2410579-01	**Date Collected**	: 02/26/24 14:10
Client ID	: MW-1S	**Date Received**	: 02/27/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 03/01/24 10:31
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: MJV
Lab File ID	: V22240301A06	**Instrument ID**	: VOA122
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

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

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2410579-02	**Date Collected**	: 02/26/24 15:25
Client ID	: MW-2S	**Date Received**	: 02/27/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 03/01/24 10:55
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: MJV
Lab File ID	: V22240301A07	**Instrument ID**	: VOA122
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

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

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2410579-02	**Date Collected**	: 02/26/24 15:25
Client ID	: MW-2S	**Date Received**	: 02/27/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 03/01/24 10:55
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: MJV
Lab File ID	: V22240301A07	**Instrument ID**	: VOA122
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
156-60-5	trans-1,2-Dichloroethene	ND	2.5	0.70	U
79-01-6	Trichloroethene	ND	0.50	0.18	U
95-50-1	1,2-Dichlorobenzene	ND	2.5	0.70	U
541-73-1	1,3-Dichlorobenzene	ND	2.5	0.70	U
106-46-7	1,4-Dichlorobenzene	ND	2.5	0.70	U
1634-04-4	Methyl tert butyl ether	ND	2.5	0.70	U
179601-23-1	p/m-Xylene	ND	2.5	0.70	U
95-47-6	o-Xylene	ND	2.5	0.70	U
156-59-2	cis-1,2-Dichloroethene	ND	2.5	0.70	U
100-42-5	Styrene	ND	2.5	0.70	U
75-71-8	Dichlorodifluoromethane	ND	5.0	1.0	U
67-64-1	Acetone	ND	5.0	1.5	U
75-15-0	Carbon disulfide	ND	5.0	1.0	U
78-93-3	2-Butanone	ND	5.0	1.9	U
108-10-1	4-Methyl-2-pentanone	ND	5.0	1.0	U
591-78-6	2-Hexanone	ND	5.0	1.0	U
74-97-5	Bromochloromethane	ND	2.5	0.70	U
106-93-4	1,2-Dibromoethane	ND	2.0	0.65	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.5	0.70	U
98-82-8	Isopropylbenzene	ND	2.5	0.70	U
87-61-6	1,2,3-Trichlorobenzene	ND	2.5	0.70	U
120-82-1	1,2,4-Trichlorobenzene	ND	2.5	0.70	U
79-20-9	Methyl Acetate	ND	2.0	0.23	U
110-82-7	Cyclohexane	ND	10	0.27	U
123-91-1	1,4-Dioxane	ND	250	61.	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2410579-02	**Date Collected**	: 02/26/24 15:25
Client ID	: MW-2S	**Date Received**	: 02/27/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 03/01/24 10:55
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: MJV
Lab File ID	: V22240301A07	**Instrument ID**	: VOA122
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

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

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2410579-03	**Date Collected**	: 02/26/24 16:30
Client ID	: MW-3S	**Date Received**	: 02/27/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 03/01/24 11:20
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: MJV
Lab File ID	: V22240301A08	**Instrument ID**	: VOA122
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

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

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2410579-03	**Date Collected**	: 02/26/24 16:30
Client ID	: MW-3S	**Date Received**	: 02/27/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 03/01/24 11:20
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: MJV
Lab File ID	: V22240301A08	**Instrument ID**	: VOA122
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
156-60-5	trans-1,2-Dichloroethene	ND	2.5	0.70	U
79-01-6	Trichloroethene	ND	0.50	0.18	U
95-50-1	1,2-Dichlorobenzene	ND	2.5	0.70	U
541-73-1	1,3-Dichlorobenzene	ND	2.5	0.70	U
106-46-7	1,4-Dichlorobenzene	ND	2.5	0.70	U
1634-04-4	Methyl tert butyl ether	ND	2.5	0.70	U
179601-23-1	p/m-Xylene	ND	2.5	0.70	U
95-47-6	o-Xylene	ND	2.5	0.70	U
156-59-2	cis-1,2-Dichloroethene	ND	2.5	0.70	U
100-42-5	Styrene	ND	2.5	0.70	U
75-71-8	Dichlorodifluoromethane	ND	5.0	1.0	U
67-64-1	Acetone	ND	5.0	1.5	U
75-15-0	Carbon disulfide	ND	5.0	1.0	U
78-93-3	2-Butanone	ND	5.0	1.9	U
108-10-1	4-Methyl-2-pentanone	ND	5.0	1.0	U
591-78-6	2-Hexanone	ND	5.0	1.0	U
74-97-5	Bromochloromethane	ND	2.5	0.70	U
106-93-4	1,2-Dibromoethane	ND	2.0	0.65	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.5	0.70	U
98-82-8	Isopropylbenzene	ND	2.5	0.70	U
87-61-6	1,2,3-Trichlorobenzene	ND	2.5	0.70	U
120-82-1	1,2,4-Trichlorobenzene	ND	2.5	0.70	U
79-20-9	Methyl Acetate	ND	2.0	0.23	U
110-82-7	Cyclohexane	ND	10	0.27	U
123-91-1	1,4-Dioxane	ND	250	61.	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2410579-03	**Date Collected**	: 02/26/24 16:30
Client ID	: MW-3S	**Date Received**	: 02/27/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 03/01/24 11:20
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: MJV
Lab File ID	: V22240301A08	**Instrument ID**	: VOA122
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

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

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2410579-04	**Date Collected**	: 02/27/24 09:05
Client ID	: MW-4D	**Date Received**	: 02/27/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 03/01/24 11:44
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: MJV
Lab File ID	: V22240301A09	**Instrument ID**	: VOA122
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

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

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2410579-04	**Date Collected**	: 02/27/24 09:05
Client ID	: MW-4D	**Date Received**	: 02/27/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 03/01/24 11:44
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: MJV
Lab File ID	: V22240301A09	**Instrument ID**	: VOA122
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
156-60-5	trans-1,2-Dichloroethene	ND	2.5	0.70	U
79-01-6	Trichloroethene	ND	0.50	0.18	U
95-50-1	1,2-Dichlorobenzene	ND	2.5	0.70	U
541-73-1	1,3-Dichlorobenzene	ND	2.5	0.70	U
106-46-7	1,4-Dichlorobenzene	ND	2.5	0.70	U
1634-04-4	Methyl tert butyl ether	ND	2.5	0.70	U
179601-23-1	p/m-Xylene	ND	2.5	0.70	U
95-47-6	o-Xylene	ND	2.5	0.70	U
156-59-2	cis-1,2-Dichloroethene	ND	2.5	0.70	U
100-42-5	Styrene	ND	2.5	0.70	U
75-71-8	Dichlorodifluoromethane	ND	5.0	1.0	U
67-64-1	Acetone	ND	5.0	1.5	U
75-15-0	Carbon disulfide	ND	5.0	1.0	U
78-93-3	2-Butanone	ND	5.0	1.9	U
108-10-1	4-Methyl-2-pentanone	ND	5.0	1.0	U
591-78-6	2-Hexanone	ND	5.0	1.0	U
74-97-5	Bromochloromethane	ND	2.5	0.70	U
106-93-4	1,2-Dibromoethane	ND	2.0	0.65	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.5	0.70	U
98-82-8	Isopropylbenzene	ND	2.5	0.70	U
87-61-6	1,2,3-Trichlorobenzene	ND	2.5	0.70	U
120-82-1	1,2,4-Trichlorobenzene	ND	2.5	0.70	U
79-20-9	Methyl Acetate	ND	2.0	0.23	U
110-82-7	Cyclohexane	ND	10	0.27	U
123-91-1	1,4-Dioxane	ND	250	61.	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2410579-04	**Date Collected**	: 02/27/24 09:05
Client ID	: MW-4D	**Date Received**	: 02/27/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 03/01/24 11:44
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: MJV
Lab File ID	: V22240301A09	**Instrument ID**	: VOA122
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

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

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2410579-05	**Date Collected**	: 02/27/24 08:40
Client ID	: MW-5S	**Date Received**	: 02/27/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 03/01/24 12:08
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: MJV
Lab File ID	: V22240301A10	**Instrument ID**	: VOA122
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
75-09-2	Methylene chloride	ND	2.5	0.70	U
75-34-3	1,1-Dichloroethane	ND	2.5	0.70	U
67-66-3	Chloroform	1.4	2.5	0.70	J
56-23-5	Carbon tetrachloride	ND	0.50	0.13	U
78-87-5	1,2-Dichloropropane	ND	1.0	0.14	U
124-48-1	Dibromochloromethane	ND	0.50	0.15	U
79-00-5	1,1,2-Trichloroethane	ND	1.5	0.50	U
127-18-4	Tetrachloroethene	ND	0.50	0.18	U
108-90-7	Chlorobenzene	ND	2.5	0.70	U
75-69-4	Trichlorofluoromethane	ND	2.5	0.70	U
107-06-2	1,2-Dichloroethane	ND	0.50	0.13	U
71-55-6	1,1,1-Trichloroethane	ND	2.5	0.70	U
75-27-4	Bromodichloromethane	ND	0.50	0.19	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.16	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.14	U
75-25-2	Bromoform	ND	2.0	0.65	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.17	U
71-43-2	Benzene	ND	0.50	0.16	U
108-88-3	Toluene	ND	2.5	0.70	U
100-41-4	Ethylbenzene	ND	2.5	0.70	U
74-87-3	Chloromethane	ND	2.5	0.70	U
74-83-9	Bromomethane	ND	2.5	0.70	U
75-01-4	Vinyl chloride	ND	1.0	0.07	U
75-00-3	Chloroethane	ND	2.5	0.70	U
75-35-4	1,1-Dichloroethene	ND	0.50	0.17	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2410579-05	**Date Collected**	: 02/27/24 08:40
Client ID	: MW-5S	**Date Received**	: 02/27/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 03/01/24 12:08
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: MJV
Lab File ID	: V22240301A10	**Instrument ID**	: VOA122
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
156-60-5	trans-1,2-Dichloroethene	ND	2.5	0.70	U
79-01-6	Trichloroethene	ND	0.50	0.18	U
95-50-1	1,2-Dichlorobenzene	ND	2.5	0.70	U
541-73-1	1,3-Dichlorobenzene	ND	2.5	0.70	U
106-46-7	1,4-Dichlorobenzene	ND	2.5	0.70	U
1634-04-4	Methyl tert butyl ether	ND	2.5	0.70	U
179601-23-1	p/m-Xylene	ND	2.5	0.70	U
95-47-6	o-Xylene	ND	2.5	0.70	U
156-59-2	cis-1,2-Dichloroethene	ND	2.5	0.70	U
100-42-5	Styrene	ND	2.5	0.70	U
75-71-8	Dichlorodifluoromethane	ND	5.0	1.0	U
67-64-1	Acetone	ND	5.0	1.5	U
75-15-0	Carbon disulfide	ND	5.0	1.0	U
78-93-3	2-Butanone	ND	5.0	1.9	U
108-10-1	4-Methyl-2-pentanone	ND	5.0	1.0	U
591-78-6	2-Hexanone	ND	5.0	1.0	U
74-97-5	Bromochloromethane	ND	2.5	0.70	U
106-93-4	1,2-Dibromoethane	ND	2.0	0.65	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.5	0.70	U
98-82-8	Isopropylbenzene	ND	2.5	0.70	U
87-61-6	1,2,3-Trichlorobenzene	ND	2.5	0.70	U
120-82-1	1,2,4-Trichlorobenzene	ND	2.5	0.70	U
79-20-9	Methyl Acetate	ND	2.0	0.23	U
110-82-7	Cyclohexane	ND	10	0.27	U
123-91-1	1,4-Dioxane	ND	250	61.	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2410579-05	**Date Collected**	: 02/27/24 08:40
Client ID	: MW-5S	**Date Received**	: 02/27/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 03/01/24 12:08
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: MJV
Lab File ID	: V22240301A10	**Instrument ID**	: VOA122
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

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

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2410579-06	**Date Collected**	: 02/26/24 16:35
Client ID	: MW-6D	**Date Received**	: 02/27/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 03/01/24 12:33
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: MJV
Lab File ID	: V22240301A11	**Instrument ID**	: VOA122
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

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

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2410579-06	**Date Collected**	: 02/26/24 16:35
Client ID	: MW-6D	**Date Received**	: 02/27/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 03/01/24 12:33
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: MJV
Lab File ID	: V22240301A11	**Instrument ID**	: VOA122
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
156-60-5	trans-1,2-Dichloroethene	ND	2.5	0.70	U
79-01-6	Trichloroethene	ND	0.50	0.18	U
95-50-1	1,2-Dichlorobenzene	ND	2.5	0.70	U
541-73-1	1,3-Dichlorobenzene	ND	2.5	0.70	U
106-46-7	1,4-Dichlorobenzene	ND	2.5	0.70	U
1634-04-4	Methyl tert butyl ether	ND	2.5	0.70	U
179601-23-1	p/m-Xylene	ND	2.5	0.70	U
95-47-6	o-Xylene	ND	2.5	0.70	U
156-59-2	cis-1,2-Dichloroethene	ND	2.5	0.70	U
100-42-5	Styrene	ND	2.5	0.70	U
75-71-8	Dichlorodifluoromethane	ND	5.0	1.0	U
67-64-1	Acetone	ND	5.0	1.5	U
75-15-0	Carbon disulfide	ND	5.0	1.0	U
78-93-3	2-Butanone	ND	5.0	1.9	U
108-10-1	4-Methyl-2-pentanone	ND	5.0	1.0	U
591-78-6	2-Hexanone	ND	5.0	1.0	U
74-97-5	Bromochloromethane	ND	2.5	0.70	U
106-93-4	1,2-Dibromoethane	ND	2.0	0.65	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.5	0.70	U
98-82-8	Isopropylbenzene	ND	2.5	0.70	U
87-61-6	1,2,3-Trichlorobenzene	ND	2.5	0.70	U
120-82-1	1,2,4-Trichlorobenzene	ND	2.5	0.70	U
79-20-9	Methyl Acetate	ND	2.0	0.23	U
110-82-7	Cyclohexane	ND	10	0.27	U
123-91-1	1,4-Dioxane	ND	250	61.	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2410579-06	**Date Collected**	: 02/26/24 16:35
Client ID	: MW-6D	**Date Received**	: 02/27/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 03/01/24 12:33
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: MJV
Lab File ID	: V22240301A11	**Instrument ID**	: VOA122
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

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

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2410579-07	**Date Collected**	: 02/26/24 14:45
Client ID	: MW-7S	**Date Received**	: 02/27/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 03/01/24 12:58
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: MJV
Lab File ID	: V22240301A12	**Instrument ID**	: VOA122
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

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

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2410579-07	**Date Collected**	: 02/26/24 14:45
Client ID	: MW-7S	**Date Received**	: 02/27/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 03/01/24 12:58
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: MJV
Lab File ID	: V22240301A12	**Instrument ID**	: VOA122
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
156-60-5	trans-1,2-Dichloroethene	ND	2.5	0.70	U
79-01-6	Trichloroethene	ND	0.50	0.18	U
95-50-1	1,2-Dichlorobenzene	ND	2.5	0.70	U
541-73-1	1,3-Dichlorobenzene	ND	2.5	0.70	U
106-46-7	1,4-Dichlorobenzene	ND	2.5	0.70	U
1634-04-4	Methyl tert butyl ether	ND	2.5	0.70	U
179601-23-1	p/m-Xylene	ND	2.5	0.70	U
95-47-6	o-Xylene	ND	2.5	0.70	U
156-59-2	cis-1,2-Dichloroethene	ND	2.5	0.70	U
100-42-5	Styrene	ND	2.5	0.70	U
75-71-8	Dichlorodifluoromethane	ND	5.0	1.0	U
67-64-1	Acetone	ND	5.0	1.5	U
75-15-0	Carbon disulfide	ND	5.0	1.0	U
78-93-3	2-Butanone	ND	5.0	1.9	U
108-10-1	4-Methyl-2-pentanone	ND	5.0	1.0	U
591-78-6	2-Hexanone	ND	5.0	1.0	U
74-97-5	Bromochloromethane	ND	2.5	0.70	U
106-93-4	1,2-Dibromoethane	ND	2.0	0.65	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.5	0.70	U
98-82-8	Isopropylbenzene	ND	2.5	0.70	U
87-61-6	1,2,3-Trichlorobenzene	ND	2.5	0.70	U
120-82-1	1,2,4-Trichlorobenzene	ND	2.5	0.70	U
79-20-9	Methyl Acetate	ND	2.0	0.23	U
110-82-7	Cyclohexane	ND	10	0.27	U
123-91-1	1,4-Dioxane	ND	250	61.	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2410579-07	**Date Collected**	: 02/26/24 14:45
Client ID	: MW-7S	**Date Received**	: 02/27/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 03/01/24 12:58
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: MJV
Lab File ID	: V22240301A12	**Instrument ID**	: VOA122
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

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

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2410579-08	**Date Collected**	: 02/27/24 10:25
Client ID	: MW-8S	**Date Received**	: 02/27/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 03/01/24 13:22
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: MJV
Lab File ID	: V22240301A13	**Instrument ID**	: VOA122
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

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

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2410579-08	**Date Collected**	: 02/27/24 10:25
Client ID	: MW-8S	**Date Received**	: 02/27/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 03/01/24 13:22
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: MJV
Lab File ID	: V22240301A13	**Instrument ID**	: VOA122
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
156-60-5	trans-1,2-Dichloroethene	ND	2.5	0.70	U
79-01-6	Trichloroethene	ND	0.50	0.18	U
95-50-1	1,2-Dichlorobenzene	ND	2.5	0.70	U
541-73-1	1,3-Dichlorobenzene	ND	2.5	0.70	U
106-46-7	1,4-Dichlorobenzene	ND	2.5	0.70	U
1634-04-4	Methyl tert butyl ether	ND	2.5	0.70	U
179601-23-1	p/m-Xylene	ND	2.5	0.70	U
95-47-6	o-Xylene	ND	2.5	0.70	U
156-59-2	cis-1,2-Dichloroethene	ND	2.5	0.70	U
100-42-5	Styrene	ND	2.5	0.70	U
75-71-8	Dichlorodifluoromethane	ND	5.0	1.0	U
67-64-1	Acetone	ND	5.0	1.5	U
75-15-0	Carbon disulfide	ND	5.0	1.0	U
78-93-3	2-Butanone	ND	5.0	1.9	U
108-10-1	4-Methyl-2-pentanone	ND	5.0	1.0	U
591-78-6	2-Hexanone	ND	5.0	1.0	U
74-97-5	Bromochloromethane	ND	2.5	0.70	U
106-93-4	1,2-Dibromoethane	ND	2.0	0.65	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.5	0.70	U
98-82-8	Isopropylbenzene	ND	2.5	0.70	U
87-61-6	1,2,3-Trichlorobenzene	ND	2.5	0.70	U
120-82-1	1,2,4-Trichlorobenzene	ND	2.5	0.70	U
79-20-9	Methyl Acetate	ND	2.0	0.23	U
110-82-7	Cyclohexane	ND	10	0.27	U
123-91-1	1,4-Dioxane	ND	250	61.	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2410579-08	**Date Collected**	: 02/27/24 10:25
Client ID	: MW-8S	**Date Received**	: 02/27/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 03/01/24 13:22
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: MJV
Lab File ID	: V22240301A13	**Instrument ID**	: VOA122
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

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

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2410579-09	**Date Collected**	: 02/26/24 00:00
Client ID	: DUP	**Date Received**	: 02/27/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 03/01/24 13:46
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: MJV
Lab File ID	: V22240301A14	**Instrument ID**	: VOA122
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

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

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2410579-09	**Date Collected**	: 02/26/24 00:00
Client ID	: DUP	**Date Received**	: 02/27/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 03/01/24 13:46
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: MJV
Lab File ID	: V22240301A14	**Instrument ID**	: VOA122
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
156-60-5	trans-1,2-Dichloroethene	ND	2.5	0.70	U
79-01-6	Trichloroethene	ND	0.50	0.18	U
95-50-1	1,2-Dichlorobenzene	ND	2.5	0.70	U
541-73-1	1,3-Dichlorobenzene	ND	2.5	0.70	U
106-46-7	1,4-Dichlorobenzene	ND	2.5	0.70	U
1634-04-4	Methyl tert butyl ether	ND	2.5	0.70	U
179601-23-1	p/m-Xylene	ND	2.5	0.70	U
95-47-6	o-Xylene	ND	2.5	0.70	U
156-59-2	cis-1,2-Dichloroethene	ND	2.5	0.70	U
100-42-5	Styrene	ND	2.5	0.70	U
75-71-8	Dichlorodifluoromethane	ND	5.0	1.0	U
67-64-1	Acetone	ND	5.0	1.5	U
75-15-0	Carbon disulfide	ND	5.0	1.0	U
78-93-3	2-Butanone	ND	5.0	1.9	U
108-10-1	4-Methyl-2-pentanone	ND	5.0	1.0	U
591-78-6	2-Hexanone	ND	5.0	1.0	U
74-97-5	Bromochloromethane	ND	2.5	0.70	U
106-93-4	1,2-Dibromoethane	ND	2.0	0.65	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.5	0.70	U
98-82-8	Isopropylbenzene	ND	2.5	0.70	U
87-61-6	1,2,3-Trichlorobenzene	ND	2.5	0.70	U
120-82-1	1,2,4-Trichlorobenzene	ND	2.5	0.70	U
79-20-9	Methyl Acetate	ND	2.0	0.23	U
110-82-7	Cyclohexane	ND	10	0.27	U
123-91-1	1,4-Dioxane	ND	250	61.	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2410579-09	**Date Collected**	: 02/26/24 00:00
Client ID	: DUP	**Date Received**	: 02/27/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 03/01/24 13:46
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: MJV
Lab File ID	: V22240301A14	**Instrument ID**	: VOA122
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

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

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2410579-10	**Date Collected**	: 02/27/24 09:15
Client ID	: EB	**Date Received**	: 02/27/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 03/01/24 14:11
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: MJV
Lab File ID	: V22240301A15	**Instrument ID**	: VOA122
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

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

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2410579-10	**Date Collected**	: 02/27/24 09:15
Client ID	: EB	**Date Received**	: 02/27/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 03/01/24 14:11
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: MJV
Lab File ID	: V22240301A15	**Instrument ID**	: VOA122
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
156-60-5	trans-1,2-Dichloroethene	ND	2.5	0.70	U
79-01-6	Trichloroethene	ND	0.50	0.18	U
95-50-1	1,2-Dichlorobenzene	ND	2.5	0.70	U
541-73-1	1,3-Dichlorobenzene	ND	2.5	0.70	U
106-46-7	1,4-Dichlorobenzene	ND	2.5	0.70	U
1634-04-4	Methyl tert butyl ether	ND	2.5	0.70	U
179601-23-1	p/m-Xylene	ND	2.5	0.70	U
95-47-6	o-Xylene	ND	2.5	0.70	U
156-59-2	cis-1,2-Dichloroethene	ND	2.5	0.70	U
100-42-5	Styrene	ND	2.5	0.70	U
75-71-8	Dichlorodifluoromethane	ND	5.0	1.0	U
67-64-1	Acetone	ND	5.0	1.5	U
75-15-0	Carbon disulfide	ND	5.0	1.0	U
78-93-3	2-Butanone	ND	5.0	1.9	U
108-10-1	4-Methyl-2-pentanone	ND	5.0	1.0	U
591-78-6	2-Hexanone	ND	5.0	1.0	U
74-97-5	Bromochloromethane	ND	2.5	0.70	U
106-93-4	1,2-Dibromoethane	ND	2.0	0.65	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.5	0.70	U
98-82-8	Isopropylbenzene	ND	2.5	0.70	U
87-61-6	1,2,3-Trichlorobenzene	ND	2.5	0.70	U
120-82-1	1,2,4-Trichlorobenzene	ND	2.5	0.70	U
79-20-9	Methyl Acetate	ND	2.0	0.23	U
110-82-7	Cyclohexane	ND	10	0.27	U
123-91-1	1,4-Dioxane	ND	250	61.	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2410579-10	**Date Collected**	: 02/27/24 09:15
Client ID	: EB	**Date Received**	: 02/27/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 03/01/24 14:11
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: MJV
Lab File ID	: V22240301A15	**Instrument ID**	: VOA122
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

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

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2410579-11	**Date Collected**	: 02/26/24 00:00
Client ID	: TB	**Date Received**	: 02/27/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 03/01/24 14:35
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: MJV
Lab File ID	: V22240301A16	**Instrument ID**	: VOA122
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

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

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2410579-11	**Date Collected**	: 02/26/24 00:00
Client ID	: TB	**Date Received**	: 02/27/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 03/01/24 14:35
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: MJV
Lab File ID	: V22240301A16	**Instrument ID**	: VOA122
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
156-60-5	trans-1,2-Dichloroethene	ND	2.5	0.70	U
79-01-6	Trichloroethene	ND	0.50	0.18	U
95-50-1	1,2-Dichlorobenzene	ND	2.5	0.70	U
541-73-1	1,3-Dichlorobenzene	ND	2.5	0.70	U
106-46-7	1,4-Dichlorobenzene	ND	2.5	0.70	U
1634-04-4	Methyl tert butyl ether	ND	2.5	0.70	U
179601-23-1	p/m-Xylene	ND	2.5	0.70	U
95-47-6	o-Xylene	ND	2.5	0.70	U
156-59-2	cis-1,2-Dichloroethene	ND	2.5	0.70	U
100-42-5	Styrene	ND	2.5	0.70	U
75-71-8	Dichlorodifluoromethane	ND	5.0	1.0	U
67-64-1	Acetone	ND	5.0	1.5	U
75-15-0	Carbon disulfide	ND	5.0	1.0	U
78-93-3	2-Butanone	ND	5.0	1.9	U
108-10-1	4-Methyl-2-pentanone	ND	5.0	1.0	U
591-78-6	2-Hexanone	ND	5.0	1.0	U
74-97-5	Bromochloromethane	ND	2.5	0.70	U
106-93-4	1,2-Dibromoethane	ND	2.0	0.65	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.5	0.70	U
98-82-8	Isopropylbenzene	ND	2.5	0.70	U
87-61-6	1,2,3-Trichlorobenzene	ND	2.5	0.70	U
120-82-1	1,2,4-Trichlorobenzene	ND	2.5	0.70	U
79-20-9	Methyl Acetate	ND	2.0	0.23	U
110-82-7	Cyclohexane	ND	10	0.27	U
123-91-1	1,4-Dioxane	ND	250	61.	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2410579-11	**Date Collected**	: 02/26/24 00:00
Client ID	: TB	**Date Received**	: 02/27/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 03/01/24 14:35
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: MJV
Lab File ID	: V22240301A16	**Instrument ID**	: VOA122
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

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

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: WG1891888-5	**Date Collected**	: NA
Client ID	: WG1891888-5BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 03/01/24 10:07
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: PID
Lab File ID	: V22240301A05	**Instrument ID**	: VOA122
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

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

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: WG1891888-5	**Date Collected**	: NA
Client ID	: WG1891888-5BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 03/01/24 10:07
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: PID
Lab File ID	: V22240301A05	**Instrument ID**	: VOA122
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
156-60-5	trans-1,2-Dichloroethene	ND	2.5	0.70	U
79-01-6	Trichloroethene	ND	0.50	0.18	U
95-50-1	1,2-Dichlorobenzene	ND	2.5	0.70	U
541-73-1	1,3-Dichlorobenzene	ND	2.5	0.70	U
106-46-7	1,4-Dichlorobenzene	ND	2.5	0.70	U
1634-04-4	Methyl tert butyl ether	ND	2.5	0.70	U
179601-23-1	p/m-Xylene	ND	2.5	0.70	U
95-47-6	o-Xylene	ND	2.5	0.70	U
156-59-2	cis-1,2-Dichloroethene	ND	2.5	0.70	U
100-42-5	Styrene	ND	2.5	0.70	U
75-71-8	Dichlorodifluoromethane	ND	5.0	1.0	U
67-64-1	Acetone	ND	5.0	1.5	U
75-15-0	Carbon disulfide	ND	5.0	1.0	U
78-93-3	2-Butanone	ND	5.0	1.9	U
108-10-1	4-Methyl-2-pentanone	ND	5.0	1.0	U
591-78-6	2-Hexanone	ND	5.0	1.0	U
74-97-5	Bromochloromethane	ND	2.5	0.70	U
106-93-4	1,2-Dibromoethane	ND	2.0	0.65	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.5	0.70	U
98-82-8	Isopropylbenzene	ND	2.5	0.70	U
87-61-6	1,2,3-Trichlorobenzene	ND	2.5	0.70	U
120-82-1	1,2,4-Trichlorobenzene	ND	2.5	0.70	U
79-20-9	Methyl Acetate	ND	2.0	0.23	U
110-82-7	Cyclohexane	ND	10	0.27	U
123-91-1	1,4-Dioxane	ND	250	61.	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: WG1891888-5	**Date Collected**	: NA
Client ID	: WG1891888-5BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 03/01/24 10:07
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: PID
Lab File ID	: V22240301A05	**Instrument ID**	: VOA122
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

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

Quantitation Report (QT Reviewed)

Data Path : K:\VOA122\2024\240301A\
Data File : V22240301A06.D
Acq On : 01 Mar 2024 10:31 am
Operator : VOA122:MJV
Sample : L2410579-01,31,10,10,,A
Misc : WG1891888,ICAL20803
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 04 10:57:23 2024
Quant Method : K:\VOA122\2024\240301A\V122_240122N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jan 24 07:06:18 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA122\2024\240301A\V22240301A01.D
Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	5.990	96	450366	10.000	ug/L	0.00
Standard Area 1 = 514325			Recovery = 87.56%			
62) Chlorobenzene-d5	9.533	117	399964	10.000	ug/L	0.00
Standard Area 1 = 441026			Recovery = 90.69%			
83) 1,4-Dichlorobenzene-d4	12.244	152	198563	10.000	ug/L	0.00
Standard Area 1 = 230262			Recovery = 86.23%			
System Monitoring Compounds						
38) Dibromofluoromethane	5.178	113	169554	10.705	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 107.05%			
46) 1,2-Dichloroethane-d4	5.702	65	156996	10.795	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 107.95%			
63) Toluene-d8	7.689	98	514645	10.317	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 103.17%			
87) 4-Bromofluorobenzene	11.034	95	180151	9.869	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 98.69%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	0.000		0	N.D.		
3) Chloromethane	1.822	50	233	N.D.		
4) Vinyl chloride	0.000		0	N.D.		
5) Bromomethane	2.209	94	315	N.D.		
6) Chloroethane	0.000		0	N.D.		
7) Trichlorofluoromethane	0.000		0	N.D.		
10) 1,1-Dichloroethene	0.000		0	N.D.		
11) Carbon disulfide	2.982	76	576	N.D.		
12) Freon-113	0.000		0	N.D.		
15) Methylene chloride	3.493	84	369	N.D.		
17) Acetone	3.533	43	986	0.735	ug/L #	71
18) trans-1,2-Dichloroethene	0.000		0	N.D.		
19) Methyl acetate	0.000		0	N.D. d		
21) Methyl tert-butyl ether	0.000		0	N.D.		
25) 1,1-Dichloroethane	4.221	63	68	N.D.		
30) cis-1,2-Dichloroethene	4.738	96	138	N.D.		
32) Bromochloromethane	0.000		0	N.D.		
33) Cyclohexane	0.000		0	N.D.		
34) Chloroform	5.001	83	73	N.D.		
36) Carbon tetrachloride	0.000		0	N.D.		

Quantitation Report (QT Reviewed)

Data Path : K:\VOA122\2024\240301A\
Data File : V22240301A06.D
Acq On : 01 Mar 2024 10:31 am
Operator : VOA122:MJV
Sample : L2410579-01,31,10,10,,A
Misc : WG1891888,ICAL20803
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 04 10:57:23 2024
Quant Method : K:\VOA122\2024\240301A\V122_240122N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jan 24 07:06:18 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA122\2024\240301A\V22240301A01.D
Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) 1,1,1-Trichloroethane	0.000		0	N.D.		
41) 2-Butanone	5.289	43	68	N.D.		
44) Benzene	5.577	78	2243	0.085	ug/L #	83
47) 1,2-Dichloroethane	0.000		0	N.D.	d	
50) Methyl cyclohexane	0.000		0	N.D.		
51) Trichloroethene	0.000		0	N.D.		
54) 1,2-Dichloropropane	0.000		0	N.D.		
57) Bromodichloromethane	0.000		0	N.D.		
60) 1,4-Dioxane	0.000		0	N.D.		
61) cis-1,3-Dichloropropene	0.000		0	N.D.		
64) Toluene	7.752	92	512	N.D.		
65) 4-Methyl-2-pentanone	0.000		0	N.D.		
66) Tetrachloroethene	8.197	166	633	0.097	ug/L #	61
68) trans-1,3-Dichloropropene	0.000		0	N.D.		
71) 1,1,2-Trichloroethane	0.000		0	N.D.		
72) Chlorodibromomethane	0.000		0	N.D.		
74) 1,2-Dibromoethane	0.000		0	N.D.		
76) 2-Hexanone	0.000		0	N.D.		
77) Chlorobenzene	0.000		0	N.D.		
78) Ethylbenzene	9.603	91	619	N.D.		
80) p/m Xylene	9.800	106	375	N.D.		
81) o Xylene	10.333	106	169	N.D.		
82) Styrene	10.396	104	637	N.D.		
84) Bromoform	0.000		0	N.D.		
86) Isopropylbenzene	10.718	105	68	N.D.		
91) 1,1,2,2-Tetrachloroethane	0.000		0	N.D.		
104) 1,3-Dichlorobenzene	12.258	146	184	N.D.		
105) 1,4-Dichlorobenzene	12.258	146	184	N.D.		
108) 1,2-Dichlorobenzene	0.000		0	N.D.		
110) 1,2-Dibromo-3-chloropr...	0.000		0	N.D.		
113) 1,2,4-Trichlorobenzene	0.000		0	N.D.		
115) 1,2,3-Trichlorobenzene	0.000		0	N.D.		

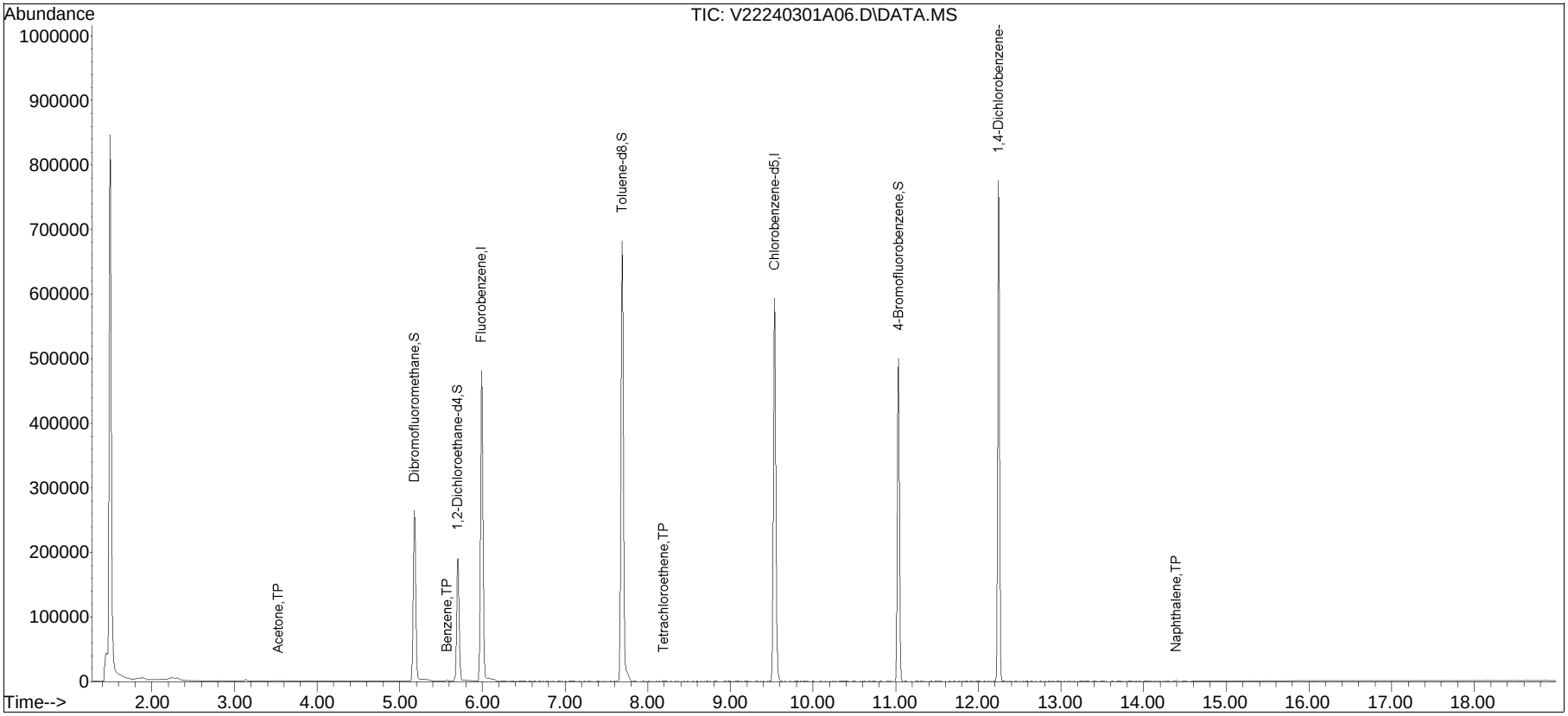
(#) = qualifier out of range (m) = manual integration (+) = signals summed

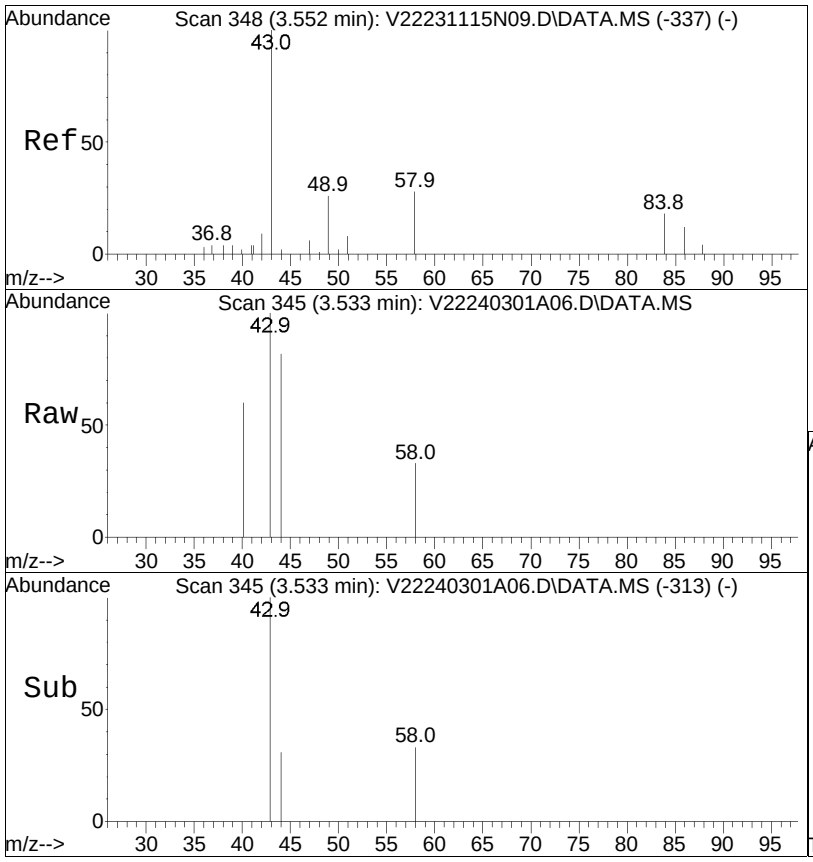
Quantitation Report (QT Reviewed)

Data Path : K:\VOA122\2024\240301A\
Data File : V22240301A06.D
Acq On : 01 Mar 2024 10:31 am
Operator : VOA122:MJV
Sample : L2410579-01,31,10,10,,A
Misc : WG1891888,ICAL20803
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 04 10:57:23 2024
Quant Method : K:\VOA122\2024\240301A\V122_240122N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jan 24 07:06:18 2024
Response via : Initial Calibration

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

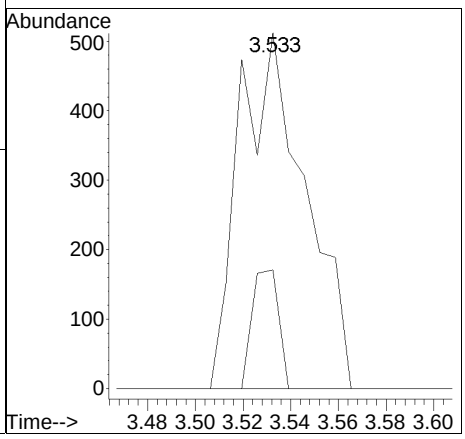


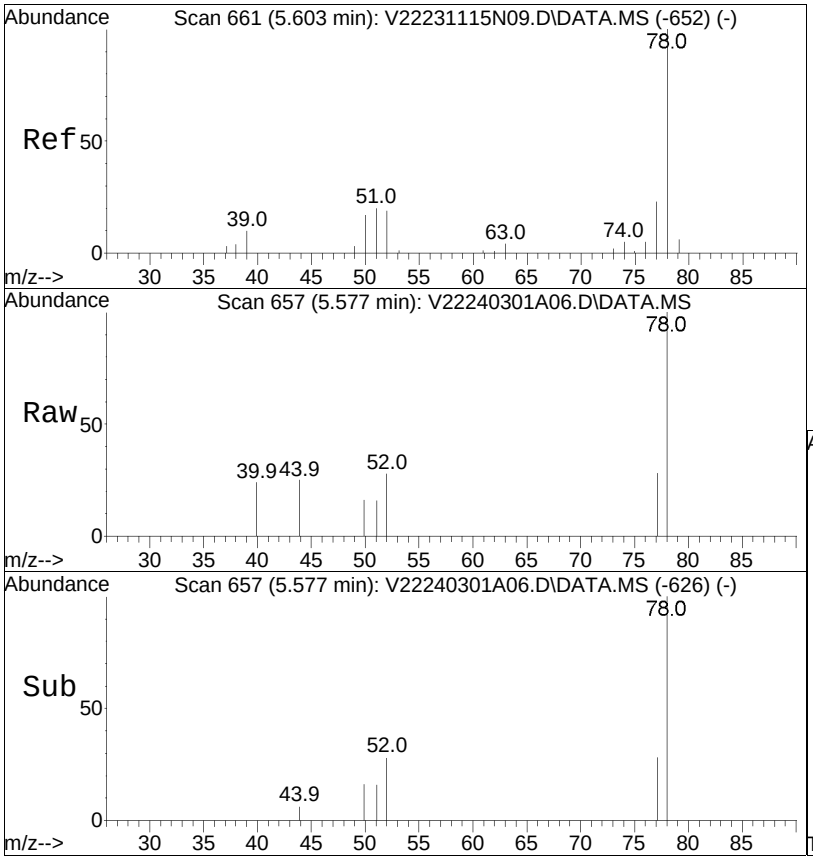


#17
Acetone
Concen: 0.74 ug/L
RT: 3.533 min Scan# 345
Delta R.T. 0.007 min
Lab File: V22240301A06.D
Acq: 01 Mar 2024 10:31 am

Tgt Ion: 43 Resp: 986

Ion	Ratio	Lower	Upper
43	100		
58	13.5	23.1	34.7#

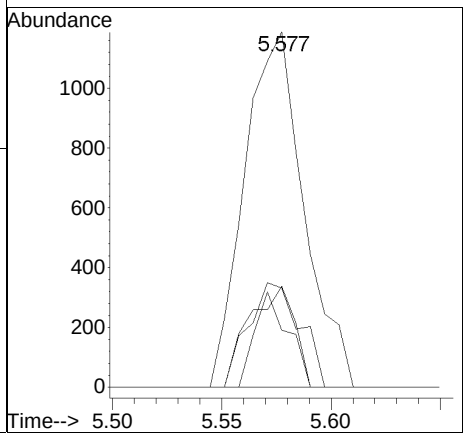


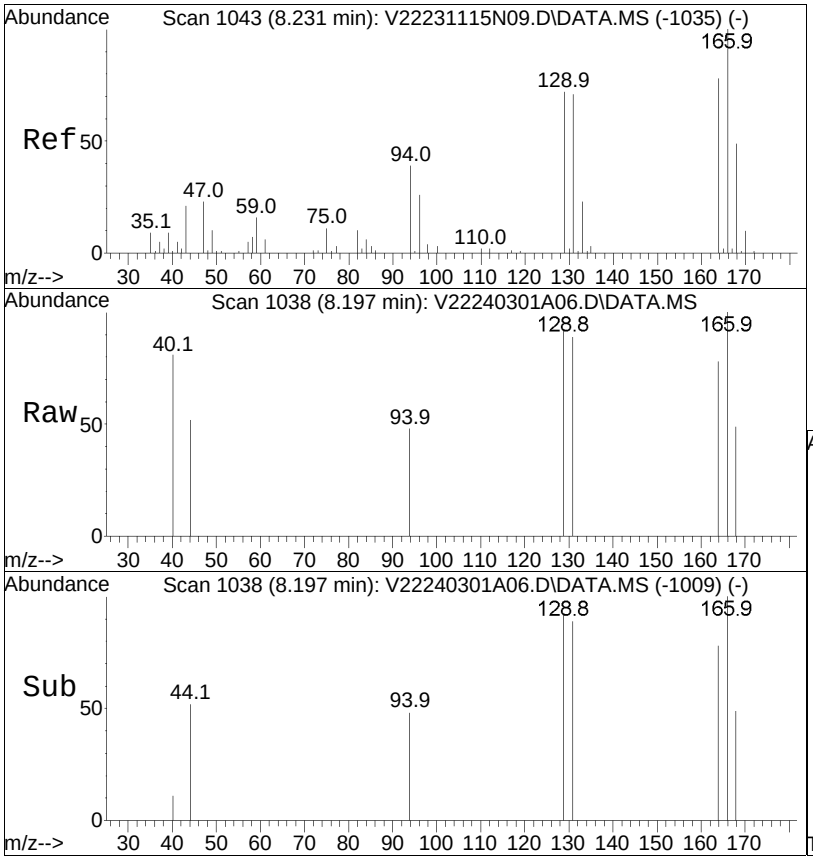


#44
Benzene
Concen: 0.08 ug/L
RT: 5.577 min Scan# 657
Delta R.T. 0.000 min
Lab File: V22240301A06.D
Acq: 01 Mar 2024 10:31 am

Tgt Ion: 78 Resp: 2243

Ion	Ratio	Lower	Upper
78	100		
77	25.7	15.4	32.0
51	0.0	9.8	20.4#
52	21.9	9.2	19.2#

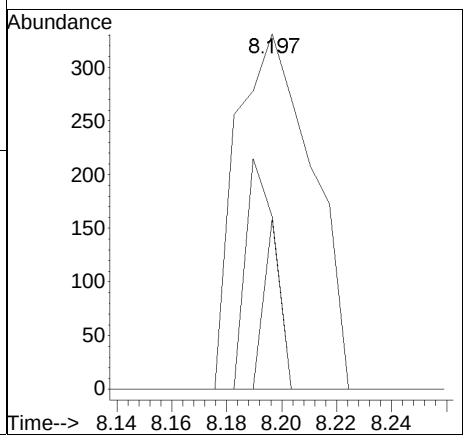




#66
Tetrachloroethene
Concen: 0.10 ug/L
RT: 8.197 min Scan# 1038
Delta R.T. 0.000 min
Lab File: V22240301A06.D
Acq: 01 Mar 2024 10:31 am

Tgt Ion:166 Resp: 633

Ion	Ratio	Lower	Upper
166	100		
168	24.8	27.8	67.8#
94	10.4	16.7	56.7#



Manual Integration Report

Data Path	: K:\VOA122\2024\240301A\	QMethod	: V122_240122N_8260.m
Data File	: V22240301A06.D	Operator	: VOA122:MJV
Date Inj'd	: 3/1/2024 10:31 am	Instrument	: VOA 122
Sample	: L2410579-01,31,10,10,,A	Quant Date	: 3/4/2024 8:50 am

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

Quantitation Report (QT Reviewed)

Data Path : K:\VOA122\2024\240301A\
Data File : V22240301A07.D
Acq On : 01 Mar 2024 10:55 am
Operator : VOA122:MJV
Sample : L2410579-02,31,10,10,,A
Misc : WG1891888,ICAL20803
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Mar 04 10:57:44 2024
Quant Method : K:\VOA122\2024\240301A\V122_240122N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jan 24 07:06:18 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA122\2024\240301A\V22240301A01.D
Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	5.990	96	454111	10.000	ug/L	0.00
Standard Area 1 = 514325			Recovery = 88.29%			
62) Chlorobenzene-d5	9.533	117	406428	10.000	ug/L	0.00
Standard Area 1 = 441026			Recovery = 92.16%			
83) 1,4-Dichlorobenzene-d4	12.244	152	204440	10.000	ug/L	0.00
Standard Area 1 = 230262			Recovery = 88.79%			
System Monitoring Compounds						
38) Dibromofluoromethane	5.177	113	172073	10.774	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 107.74%			
46) 1,2-Dichloroethane-d4	5.702	65	158837	10.832	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 108.32%			
63) Toluene-d8	7.689	98	518957	10.238	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 102.38%			
87) 4-Bromofluorobenzene	11.034	95	187092	9.954	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.54%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.455	85	59	N.D.		
3) Chloromethane	0.000		0	N.D.	d	
4) Vinyl chloride	0.000		0	N.D.		
5) Bromomethane	2.208	94	290	N.D.		
6) Chloroethane	0.000		0	N.D.		
7) Trichlorofluoromethane	0.000		0	N.D.		
10) 1,1-Dichloroethene	0.000		0	N.D.		
11) Carbon disulfide	2.975	76	508	N.D.		
12) Freon-113	0.000		0	N.D.		
15) Methylene chloride	3.487	84	391	N.D.		
17) Acetone	0.000		0	N.D.	d	
18) trans-1,2-Dichloroethene	0.000		0	N.D.		
19) Methyl acetate	0.000		0	N.D.	d	
21) Methyl tert-butyl ether	0.000		0	N.D.		
25) 1,1-Dichloroethane	0.000		0	N.D.		
30) cis-1,2-Dichloroethene	4.824	96	62	N.D.		
32) Bromochloromethane	0.000		0	N.D.		
33) Cyclohexane	0.000		0	N.D.		
34) Chloroform	0.000		0	N.D.		
36) Carbon tetrachloride	0.000		0	N.D.		

Data Path : K:\VOA122\2024\240301A\
Data File : V22240301A07.D
Acq On : 01 Mar 2024 10:55 am
Operator : VOA122:MJV
Sample : L2410579-02,31,10,10,,A
Misc : WG1891888,ICAL20803
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Mar 04 10:57:44 2024
Quant Method : K:\VOA122\2024\240301A\V122_240122N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jan 24 07:06:18 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA122\2024\240301A\V22240301A01.D
Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) 1,1,1-Trichloroethane	0.000		0		N.D.	
41) 2-Butanone	0.000		0		N.D.	
44) Benzene	0.000		0		N.D.	
47) 1,2-Dichloroethane	0.000		0		N.D.	
50) Methyl cyclohexane	0.000		0		N.D.	
51) Trichloroethene	0.000		0		N.D.	
54) 1,2-Dichloropropane	0.000		0		N.D.	
57) Bromodichloromethane	0.000		0		N.D.	
60) 1,4-Dioxane	0.000		0		N.D.	
61) cis-1,3-Dichloropropene	0.000		0		N.D.	
64) Toluene	0.000		0		N.D.	
65) 4-Methyl-2-pentanone	0.000		0		N.D.	
66) Tetrachloroethene	0.000		0		N.D.	
68) trans-1,3-Dichloropropene	0.000		0		N.D.	
71) 1,1,2-Trichloroethane	0.000		0		N.D.	
72) Chlorodibromomethane	0.000		0		N.D.	
74) 1,2-Dibromoethane	0.000		0		N.D.	
76) 2-Hexanone	0.000		0		N.D.	
77) Chlorobenzene	0.000		0		N.D.	
78) Ethylbenzene	9.540	91	630		N.D.	
80) p/m Xylene	0.000		0		N.D.	
81) o Xylene	0.000		0		N.D.	
82) Styrene	0.000		0		N.D.	
84) Bromoform	0.000		0		N.D.	
86) Isopropylbenzene	0.000		0		N.D.	
91) 1,1,2,2-Tetrachloroethane	0.000		0		N.D.	
104) 1,3-Dichlorobenzene	0.000		0		N.D.	
105) 1,4-Dichlorobenzene	0.000		0		N.D.	
108) 1,2-Dichlorobenzene	0.000		0		N.D.	
110) 1,2-Dibromo-3-chloropr...	0.000		0		N.D.	
113) 1,2,4-Trichlorobenzene	0.000		0		N.D.	
115) 1,2,3-Trichlorobenzene	0.000		0		N.D.	

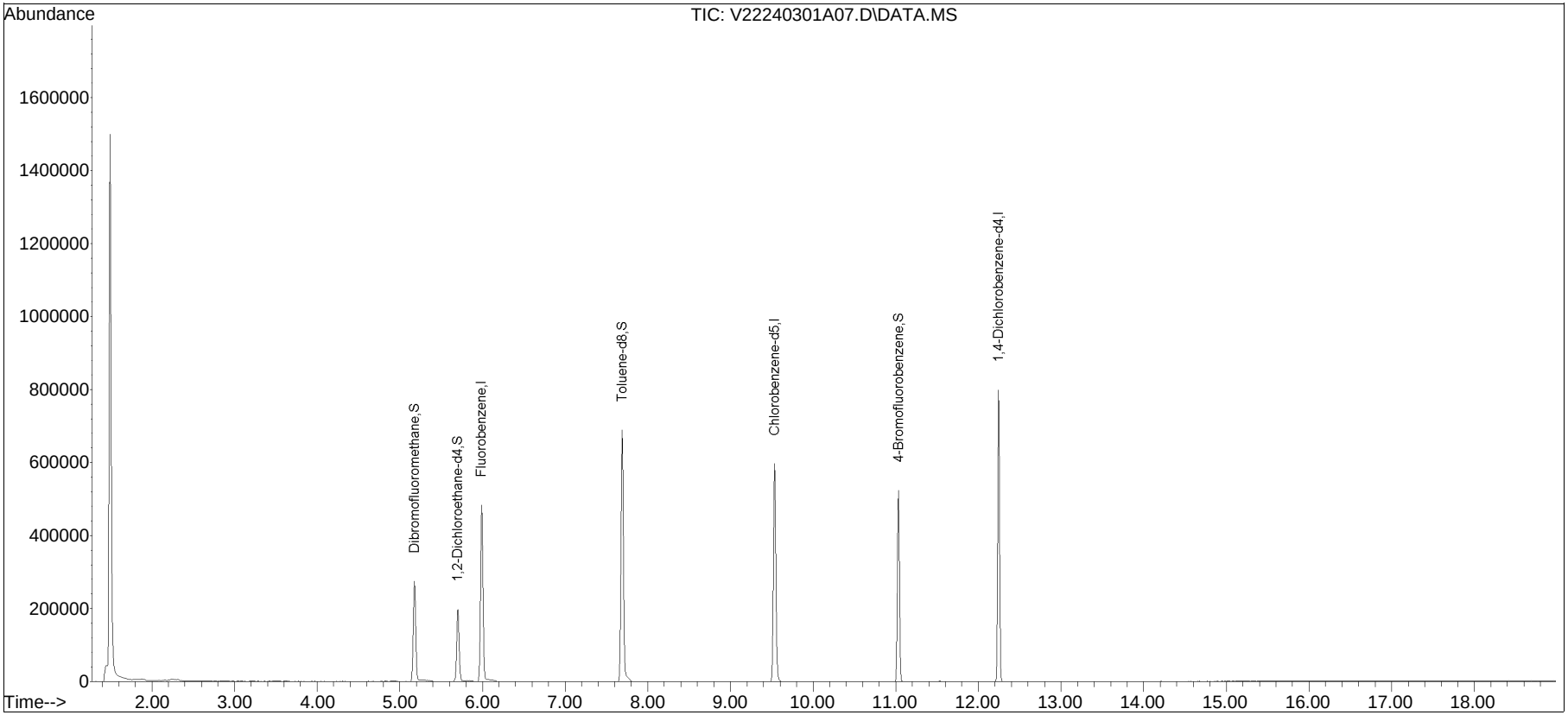
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : K:\VOA122\2024\240301A\
Data File : V22240301A07.D
Acq On : 01 Mar 2024 10:55 am
Operator : VOA122:MJV
Sample : L2410579-02,31,10,10,,A
Misc : WG1891888,ICAL20803
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Mar 04 10:57:44 2024
Quant Method : K:\VOA122\2024\240301A\V122_240122N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jan 24 07:06:18 2024
Response via : Initial Calibration

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



Manual Integration Report

Data Path	: K:\VOA122\2024\240301A\	QMethod	: V122_240122N_8260.m
Data File	: V22240301A07.D	Operator	: VOA122:MJV
Date Inj'd	: 3/1/2024 10:55 am	Instrument	: VOA 122
Sample	: L2410579-02,31,10,10,,A	Quant Date	: 3/4/2024 8:50 am

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

Quantitation Report (QT Reviewed)

Data Path : K:\VOA122\2024\240301A\
Data File : V22240301A08.D
Acq On : 01 Mar 2024 11:20 am
Operator : VOA122:MJV
Sample : L2410579-03,31,10,10,,A
Misc : WG1891888,ICAL20803
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 04 10:58:01 2024
Quant Method : K:\VOA122\2024\240301A\V122_240122N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jan 24 07:06:18 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA122\2024\240301A\V22240301A01.D
Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	5.990	96	455957	10.000	ug/L	0.00
Standard Area 1 = 514325			Recovery = 88.65%			
62) Chlorobenzene-d5	9.533	117	409840	10.000	ug/L	0.00
Standard Area 1 = 441026			Recovery = 92.93%			
83) 1,4-Dichlorobenzene-d4	12.243	152	204794	10.000	ug/L	0.00
Standard Area 1 = 230262			Recovery = 88.94%			
System Monitoring Compounds						
38) Dibromofluoromethane	5.177	113	171379	10.687	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 106.87%			
46) 1,2-Dichloroethane-d4	5.702	65	161387	10.961	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 109.61%			
63) Toluene-d8	7.689	98	519363	10.161	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 101.61%			
87) 4-Bromofluorobenzene	11.034	95	188599	10.017	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.17%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	0.000		0	N.D.		
3) Chloromethane	0.000		0	N.D.		
4) Vinyl chloride	0.000		0	N.D.		
5) Bromomethane	2.202	94	396	N.D.		
6) Chloroethane	0.000		0	N.D.		
7) Trichlorofluoromethane	0.000		0	N.D.		
10) 1,1-Dichloroethene	0.000		0	N.D.		
11) Carbon disulfide	2.975	76	471	N.D.		
12) Freon-113	0.000		0	N.D.		
15) Methylene chloride	3.493	84	393	N.D.		
17) Acetone	0.000		0	N.D.	d	
18) trans-1,2-Dichloroethene	0.000		0	N.D.		
19) Methyl acetate	0.000		0	N.D.	d	
21) Methyl tert-butyl ether	0.000		0	N.D.		
25) 1,1-Dichloroethane	0.000		0	N.D.		
30) cis-1,2-Dichloroethene	4.830	96	286	N.D.		
32) Bromochloromethane	0.000		0	N.D.		
33) Cyclohexane	0.000		0	N.D.		
34) Chloroform	5.000	83	1634	0.124	ug/L #	94
36) Carbon tetrachloride	0.000		0	N.D.		

Data Path : K:\VOA122\2024\240301A\
Data File : V22240301A08.D
Acq On : 01 Mar 2024 11:20 am
Operator : VOA122:MJV
Sample : L2410579-03,31,10,10,,A
Misc : WG1891888,ICAL20803
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 04 10:58:01 2024
Quant Method : K:\VOA122\2024\240301A\V122_240122N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jan 24 07:06:18 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA122\2024\240301A\V22240301A01.D
Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
39)	1,1,1-Trichloroethane	0.000		0		N.D.	
41)	2-Butanone	0.000		0		N.D.	
44)	Benzene	0.000		0		N.D.	
47)	1,2-Dichloroethane	0.000		0		N.D.	
50)	Methyl cyclohexane	0.000		0		N.D.	
51)	Trichloroethene	0.000		0		N.D.	
54)	1,2-Dichloropropane	0.000		0		N.D.	
57)	Bromodichloromethane	0.000		0		N.D.	
60)	1,4-Dioxane	0.000		0		N.D.	
61)	cis-1,3-Dichloropropene	0.000		0		N.D.	
64)	Toluene	0.000		0		N.D.	
65)	4-Methyl-2-pentanone	0.000		0		N.D.	
66)	Tetrachloroethene	0.000		0		N.D.	
68)	trans-1,3-Dichloropropene	0.000		0		N.D.	
71)	1,1,2-Trichloroethane	0.000		0		N.D.	
72)	Chlorodibromomethane	0.000		0		N.D.	
74)	1,2-Dibromoethane	0.000		0		N.D.	
76)	2-Hexanone	0.000		0		N.D.	
77)	Chlorobenzene	0.000		0		N.D.	
78)	Ethylbenzene	9.533	91	791		N.D.	
80)	p/m Xylene	0.000		0		N.D.	
81)	o Xylene	0.000		0		N.D.	
82)	Styrene	0.000		0		N.D.	
84)	Bromoform	0.000		0		N.D.	
86)	Isopropylbenzene	0.000		0		N.D.	
91)	1,1,2,2-Tetrachloroethane	0.000		0		N.D.	
104)	1,3-Dichlorobenzene	0.000		0		N.D.	
105)	1,4-Dichlorobenzene	0.000		0		N.D.	
108)	1,2-Dichlorobenzene	0.000		0		N.D.	
110)	1,2-Dibromo-3-chloropr...	0.000		0		N.D.	
113)	1,2,4-Trichlorobenzene	0.000		0		N.D.	
115)	1,2,3-Trichlorobenzene	0.000		0		N.D.	

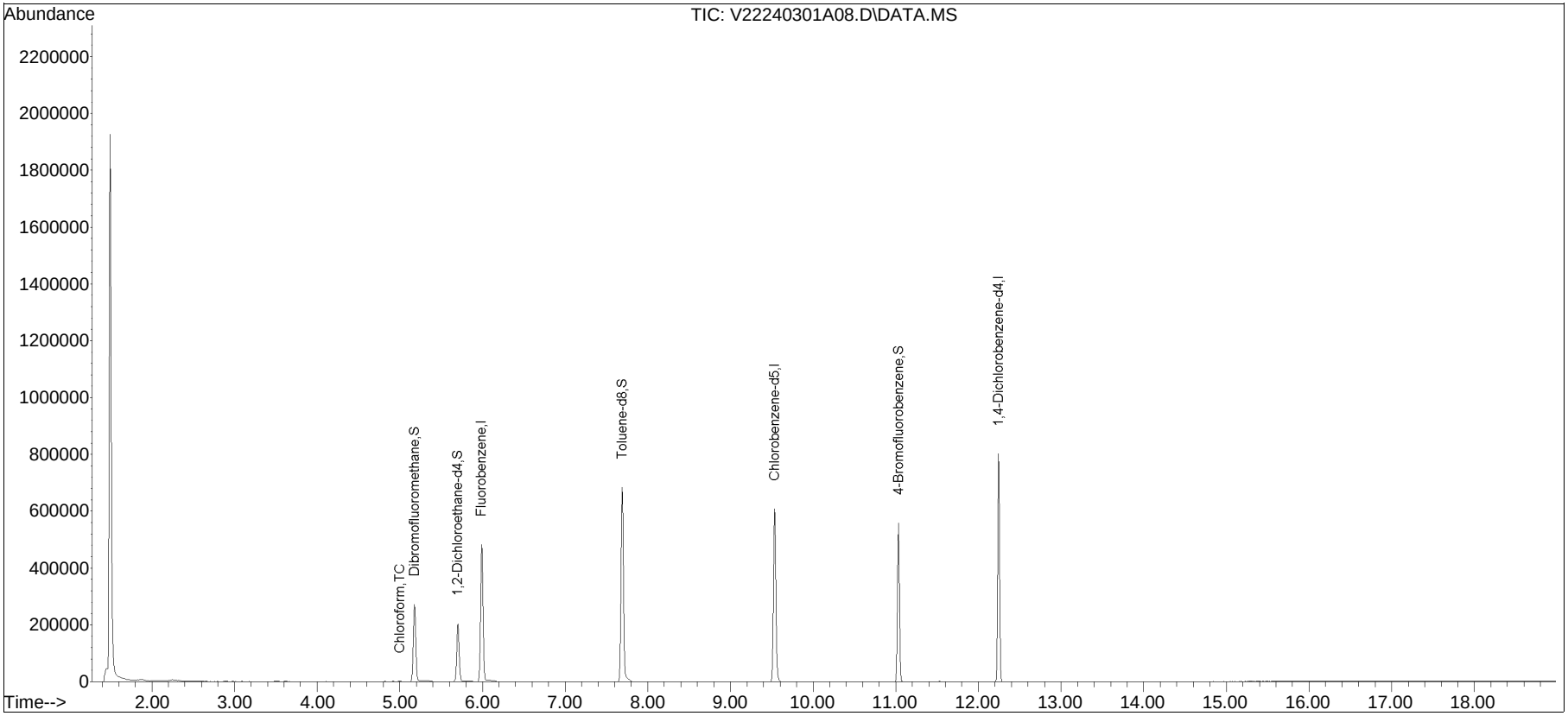
(#) = qualifier out of range (m) = manual integration (+) = signals summed

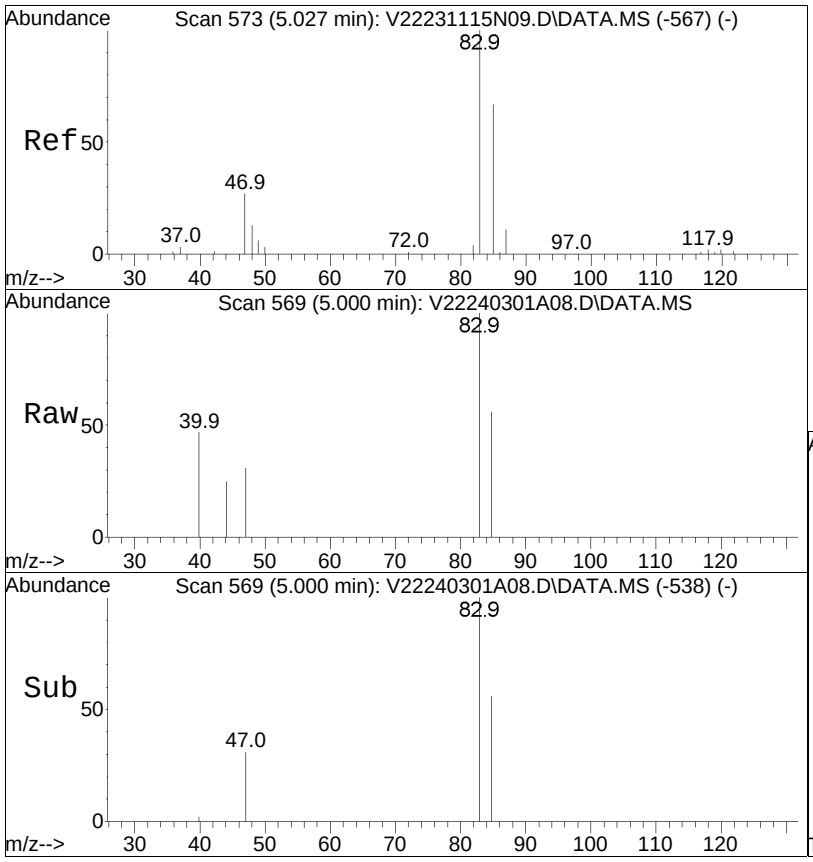
Quantitation Report (QT Reviewed)

Data Path : K:\VOA122\2024\240301A\
Data File : V22240301A08.D
Acq On : 01 Mar 2024 11:20 am
Operator : VOA122:MJV
Sample : L2410579-03,31,10,10,,A
Misc : WG1891888,ICAL20803
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 04 10:58:01 2024
Quant Method : K:\VOA122\2024\240301A\V122_240122N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jan 24 07:06:18 2024
Response via : Initial Calibration

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

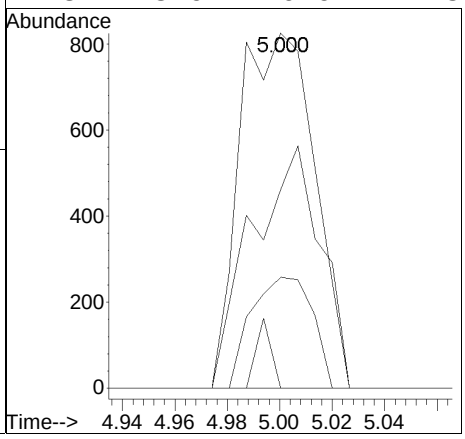




#34
Chloroform
Concen: 0.12 ug/L
RT: 5.000 min Scan# 569
Delta R.T. 0.000 min
Lab File: V22240301A08.D
Acq: 01 Mar 2024 11:20 am

Tgt Ion: 83 Resp: 1634

Ion	Ratio	Lower	Upper
83	100		
85	62.7	42.4	88.2
47	25.6	14.0	29.0
48	3.9	6.9	14.3#



Manual Integration Report

Data Path	: K:\VOA122\2024\240301A\	QMethod	: V122_240122N_8260.m
Data File	: V22240301A08.D	Operator	: VOA122:MJV
Date Inj'd	: 3/1/2024 11:20 am	Instrument	: VOA 122
Sample	: L2410579-03,31,10,10,,A	Quant Date	: 3/4/2024 8:50 am

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

Quantitation Report (QT Reviewed)

Data Path : K:\VOA122\2024\240301A\
Data File : V22240301A09.D
Acq On : 01 Mar 2024 11:44 am
Operator : VOA122:MJV
Sample : L2410579-04,31,10,10,,A
Misc : WG1891888,ICAL20803
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Mar 04 10:58:22 2024
Quant Method : K:\VOA122\2024\240301A\V122_240122N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jan 24 07:06:18 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA122\2024\240301A\V22240301A01.D
Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	5.990	96	458813	10.000	ug/L	0.00
Standard Area 1 = 514325			Recovery = 89.21%			
62) Chlorobenzene-d5	9.533	117	412446	10.000	ug/L	0.00
Standard Area 1 = 441026			Recovery = 93.52%			
83) 1,4-Dichlorobenzene-d4	12.243	152	206967	10.000	ug/L	0.00
Standard Area 1 = 230262			Recovery = 89.88%			
System Monitoring Compounds						
38) Dibromofluoromethane	5.177	113	173415	10.747	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 107.47%			
46) 1,2-Dichloroethane-d4	5.701	65	162547	10.971	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 109.71%			
63) Toluene-d8	7.689	98	524379	10.194	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 101.94%			
87) 4-Bromofluorobenzene	11.033	95	189438	9.956	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.56%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	0.000		0	N.D.		
3) Chloromethane	0.000		0	N.D.		
4) Vinyl chloride	0.000		0	N.D.		
5) Bromomethane	2.202	94	337	N.D.		
6) Chloroethane	0.000		0	N.D.		
7) Trichlorofluoromethane	0.000		0	N.D.		
10) 1,1-Dichloroethene	0.000		0	N.D.		
11) Carbon disulfide	2.982	76	856	N.D.		
12) Freon-113	0.000		0	N.D.		
15) Methylene chloride	3.499	84	318	N.D.		
17) Acetone	0.000		0	N.D.	d	
18) trans-1,2-Dichloroethene	0.000		0	N.D.		
19) Methyl acetate	0.000		0	N.D.	d	
21) Methyl tert-butyl ether	0.000		0	N.D.		
25) 1,1-Dichloroethane	0.000		0	N.D.		
30) cis-1,2-Dichloroethene	4.817	96	283	N.D.		
32) Bromochloromethane	0.000		0	N.D.		
33) Cyclohexane	0.000		0	N.D.		
34) Chloroform	5.000	83	1714	0.129	ug/L #	96
36) Carbon tetrachloride	0.000		0	N.D.		

Data Path : K:\VOA122\2024\240301A\
Data File : V22240301A09.D
Acq On : 01 Mar 2024 11:44 am
Operator : VOA122:MJV
Sample : L2410579-04,31,10,10,,A
Misc : WG1891888,ICAL20803
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Mar 04 10:58:22 2024
Quant Method : K:\VOA122\2024\240301A\V122_240122N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jan 24 07:06:18 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA122\2024\240301A\V22240301A01.D
Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) 1,1,1-Trichloroethane	0.000		0		N.D.	
41) 2-Butanone	0.000		0		N.D.	
44) Benzene	0.000		0		N.D.	
47) 1,2-Dichloroethane	0.000		0		N.D.	
50) Methyl cyclohexane	0.000		0		N.D.	
51) Trichloroethene	0.000		0		N.D.	
54) 1,2-Dichloropropane	0.000		0		N.D.	
57) Bromodichloromethane	0.000		0		N.D.	
60) 1,4-Dioxane	0.000		0		N.D.	
61) cis-1,3-Dichloropropene	0.000		0		N.D.	
64) Toluene	0.000		0		N.D.	
65) 4-Methyl-2-pentanone	0.000		0		N.D.	
66) Tetrachloroethene	0.000		0		N.D.	
68) trans-1,3-Dichloropropene	0.000		0		N.D.	
71) 1,1,2-Trichloroethane	0.000		0		N.D.	
72) Chlorodibromomethane	0.000		0		N.D.	
74) 1,2-Dibromoethane	0.000		0		N.D.	
76) 2-Hexanone	0.000		0		N.D.	
77) Chlorobenzene	0.000		0		N.D.	
78) Ethylbenzene	9.533	91	643		N.D.	
80) p/m Xylene	0.000		0		N.D.	
81) o Xylene	0.000		0		N.D.	
82) Styrene	0.000		0		N.D.	
84) Bromoform	0.000		0		N.D.	
86) Isopropylbenzene	0.000		0		N.D.	
91) 1,1,2,2-Tetrachloroethane	0.000		0		N.D.	
104) 1,3-Dichlorobenzene	0.000		0		N.D.	
105) 1,4-Dichlorobenzene	0.000		0		N.D.	
108) 1,2-Dichlorobenzene	0.000		0		N.D.	
110) 1,2-Dibromo-3-chloropr...	0.000		0		N.D.	
113) 1,2,4-Trichlorobenzene	0.000		0		N.D.	
115) 1,2,3-Trichlorobenzene	0.000		0		N.D.	

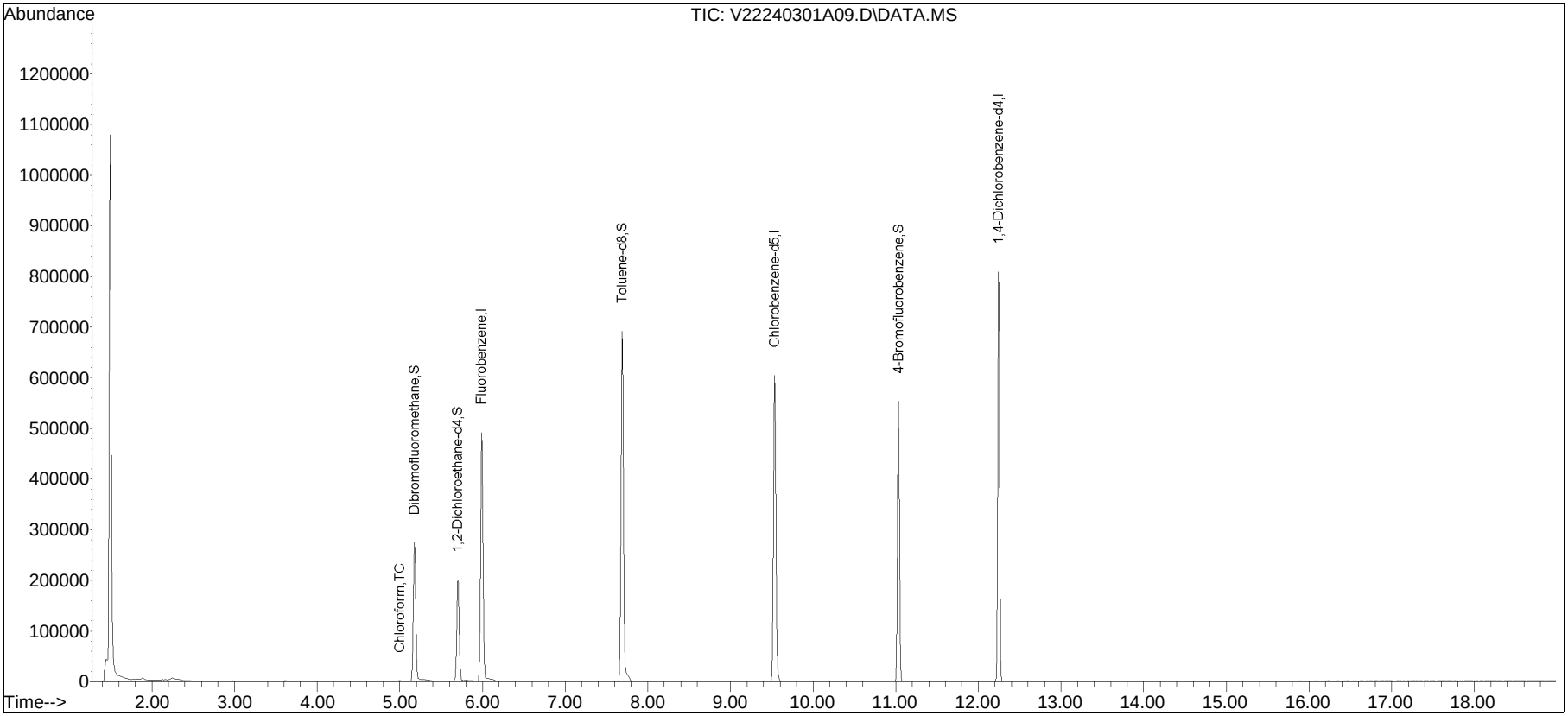
(#) = qualifier out of range (m) = manual integration (+) = signals summed

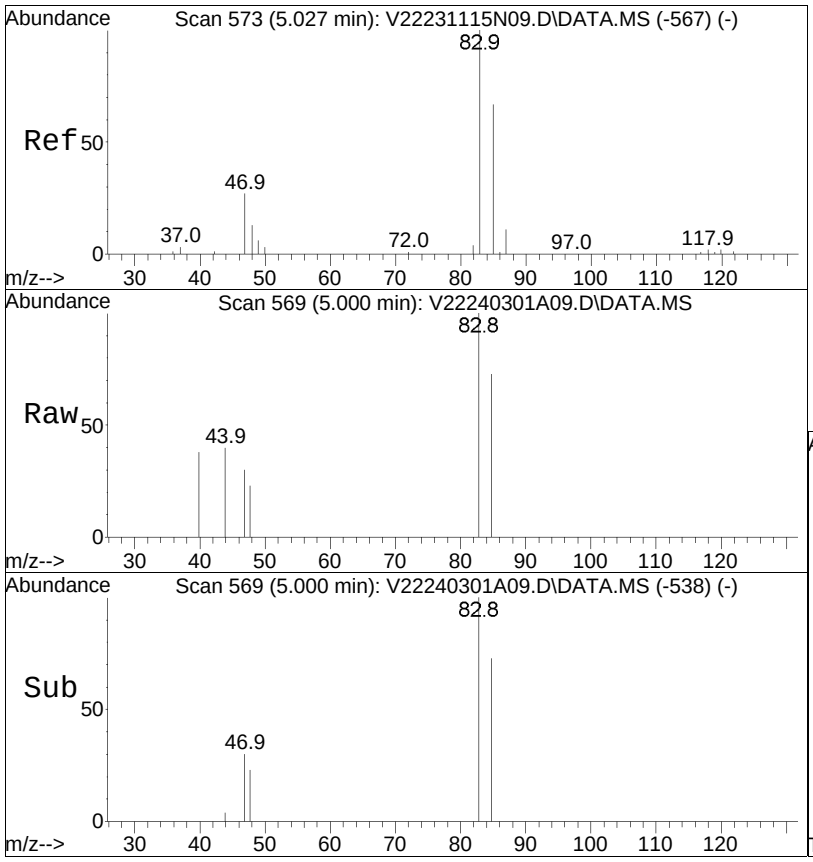
Quantitation Report (QT Reviewed)

Data Path : K:\VOA122\2024\240301A\
Data File : V22240301A09.D
Acq On : 01 Mar 2024 11:44 am
Operator : VOA122:MJV
Sample : L2410579-04,31,10,10,,A
Misc : WG1891888,ICAL20803
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Mar 04 10:58:22 2024
Quant Method : K:\VOA122\2024\240301A\V122_240122N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jan 24 07:06:18 2024
Response via : Initial Calibration

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

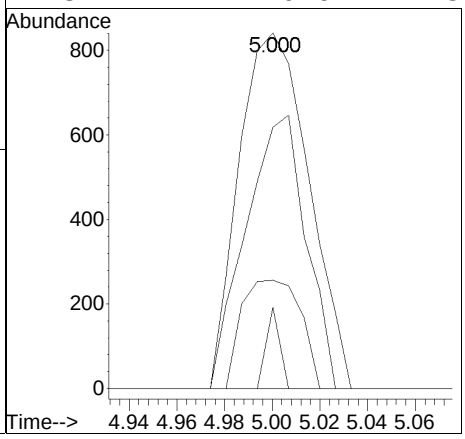




#34
Chloroform
Concen: 0.13 ug/L
RT: 5.000 min Scan# 569
Delta R.T. 0.000 min
Lab File: V22240301A09.D
Acq: 01 Mar 2024 11:44 am

Tgt Ion: 83 Resp: 1714

Ion	Ratio	Lower	Upper
83	100		
85	66.1	42.4	88.2
47	25.7	14.0	29.0
48	4.4	6.9	14.3#



Manual Integration Report

Data Path	: K:\VOA122\2024\240301A\	QMethod	: V122_240122N_8260.m
Data File	: V22240301A09.D	Operator	: VOA122:MJV
Date Inj'd	: 3/1/2024 11:44 am	Instrument	: VOA 122
Sample	: L2410579-04,31,10,10,,A	Quant Date	: 3/4/2024 8:50 am

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

Quantitation Report (QT Reviewed)

Data Path : K:\VOA122\2024\240301A\
Data File : V22240301A10.D
Acq On : 01 Mar 2024 12:08 pm
Operator : VOA122:MJV
Sample : L2410579-05,31,10,10,,A
Misc : WG1891888,ICAL20803
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Mar 04 10:58:48 2024
Quant Method : K:\VOA122\2024\240301A\V122_240122N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jan 24 07:06:18 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA122\2024\240301A\V22240301A01.D
Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	5.990	96	470133	10.000	ug/L	0.00
Standard Area 1 = 514325			Recovery =	91.41%		
62) Chlorobenzene-d5	9.533	117	414938	10.000	ug/L	0.00
Standard Area 1 = 441026			Recovery =	94.08%		
83) 1,4-Dichlorobenzene-d4	12.243	152	213963	10.000	ug/L	0.00
Standard Area 1 = 230262			Recovery =	92.92%		
System Monitoring Compounds						
38) Dibromofluoromethane	5.177	113	178597	10.802	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	108.02%		
46) 1,2-Dichloroethane-d4	5.701	65	171656	11.307	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	113.07%		
63) Toluene-d8	7.689	98	526698	10.178	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	101.78%		
87) 4-Bromofluorobenzene	11.033	95	195526	9.940	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	99.40%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	0.000		0	N.D.	d	
3) Chloromethane	0.000		0	N.D.		
4) Vinyl chloride	0.000		0	N.D.		
5) Bromomethane	0.000		0	N.D.	d	
6) Chloroethane	0.000		0	N.D.		
7) Trichlorofluoromethane	0.000		0	N.D.		
10) 1,1-Dichloroethene	0.000		0	N.D.		
11) Carbon disulfide	2.975	76	381	N.D.		
12) Freon-113	0.000		0	N.D.		
15) Methylene chloride	3.506	84	325	N.D.		
17) Acetone	0.000		0	N.D.	d	
18) trans-1,2-Dichloroethene	0.000		0	N.D.		
19) Methyl acetate	3.676	43	59	N.D.		
21) Methyl tert-butyl ether	0.000		0	N.D.		
25) 1,1-Dichloroethane	0.000		0	N.D.		
30) cis-1,2-Dichloroethene	4.823	96	197	N.D.		
32) Bromochloromethane	0.000		0	N.D.		
33) Cyclohexane	0.000		0	N.D.		
34) Chloroform	5.000	83	19133	1.408	ug/L #	93
36) Carbon tetrachloride	0.000		0	N.D.		

Data Path : K:\VOA122\2024\240301A\
Data File : V22240301A10.D
Acq On : 01 Mar 2024 12:08 pm
Operator : VOA122:MJV
Sample : L2410579-05,31,10,10,,A
Misc : WG1891888,ICAL20803
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Mar 04 10:58:48 2024
Quant Method : K:\VOA122\2024\240301A\V122_240122N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jan 24 07:06:18 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA122\2024\240301A\V22240301A01.D
Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) 1,1,1-Trichloroethane	0.000		0		N.D.	
41) 2-Butanone	0.000		0		N.D.	
44) Benzene	0.000		0		N.D.	
47) 1,2-Dichloroethane	0.000		0		N.D.	
50) Methyl cyclohexane	0.000		0		N.D.	
51) Trichloroethene	0.000		0		N.D.	d
54) 1,2-Dichloropropane	0.000		0		N.D.	
57) Bromodichloromethane	0.000		0		N.D.	
60) 1,4-Dioxane	0.000		0		N.D.	
61) cis-1,3-Dichloropropene	0.000		0		N.D.	
64) Toluene	0.000		0		N.D.	
65) 4-Methyl-2-pentanone	0.000		0		N.D.	
66) Tetrachloroethene	0.000		0		N.D.	
68) trans-1,3-Dichloropropene	0.000		0		N.D.	
71) 1,1,2-Trichloroethane	0.000		0		N.D.	
72) Chlorodibromomethane	0.000		0		N.D.	
74) 1,2-Dibromoethane	0.000		0		N.D.	
76) 2-Hexanone	0.000		0		N.D.	
77) Chlorobenzene	0.000		0		N.D.	
78) Ethylbenzene	9.540	91	683		N.D.	
80) p/m Xylene	0.000		0		N.D.	
81) o Xylene	0.000		0		N.D.	
82) Styrene	0.000		0		N.D.	
84) Bromoform	0.000		0		N.D.	
86) Isopropylbenzene	0.000		0		N.D.	
91) 1,1,2,2-Tetrachloroethane	0.000		0		N.D.	
104) 1,3-Dichlorobenzene	0.000		0		N.D.	
105) 1,4-Dichlorobenzene	0.000		0		N.D.	
108) 1,2-Dichlorobenzene	0.000		0		N.D.	
110) 1,2-Dibromo-3-chloropr...	0.000		0		N.D.	
113) 1,2,4-Trichlorobenzene	0.000		0		N.D.	
115) 1,2,3-Trichlorobenzene	0.000		0		N.D.	

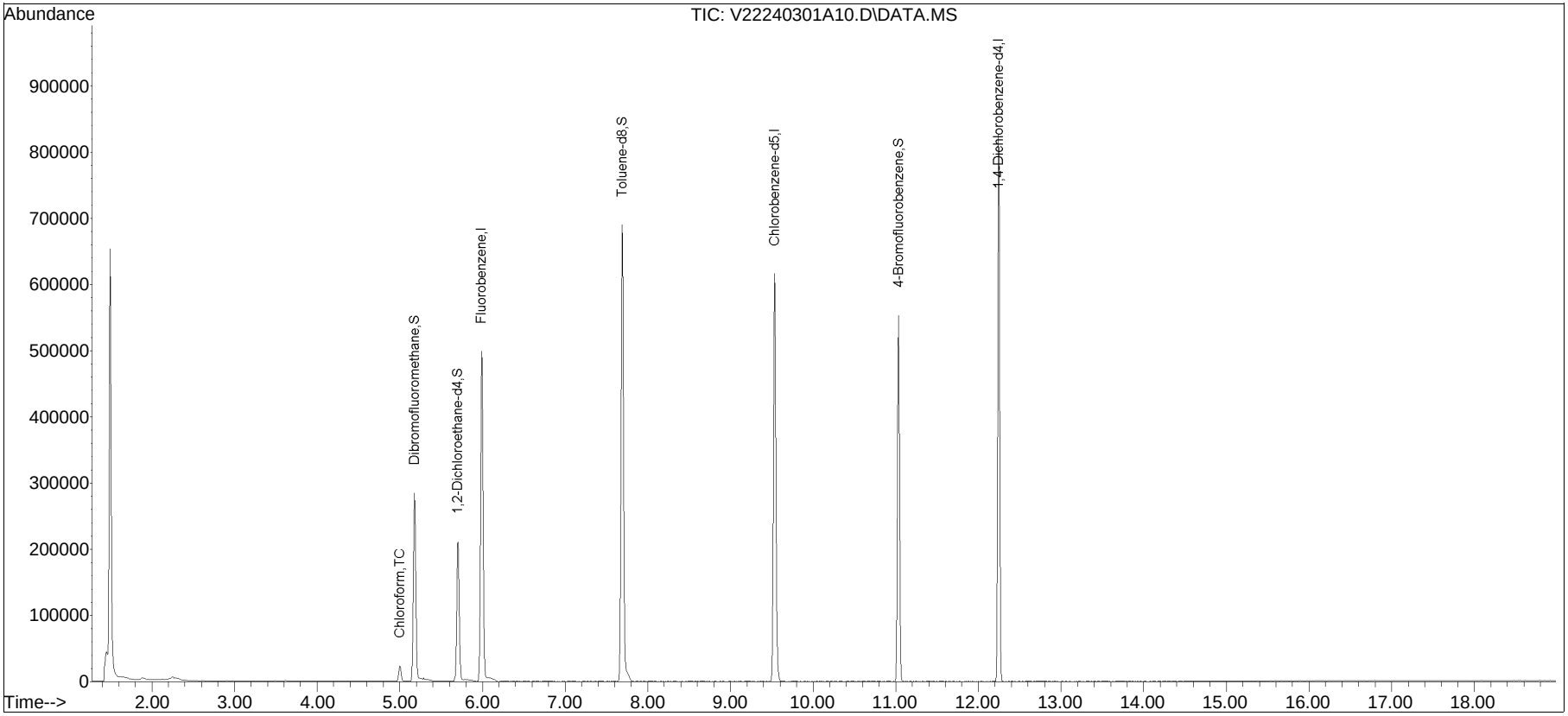
(#) = qualifier out of range (m) = manual integration (+) = signals summed

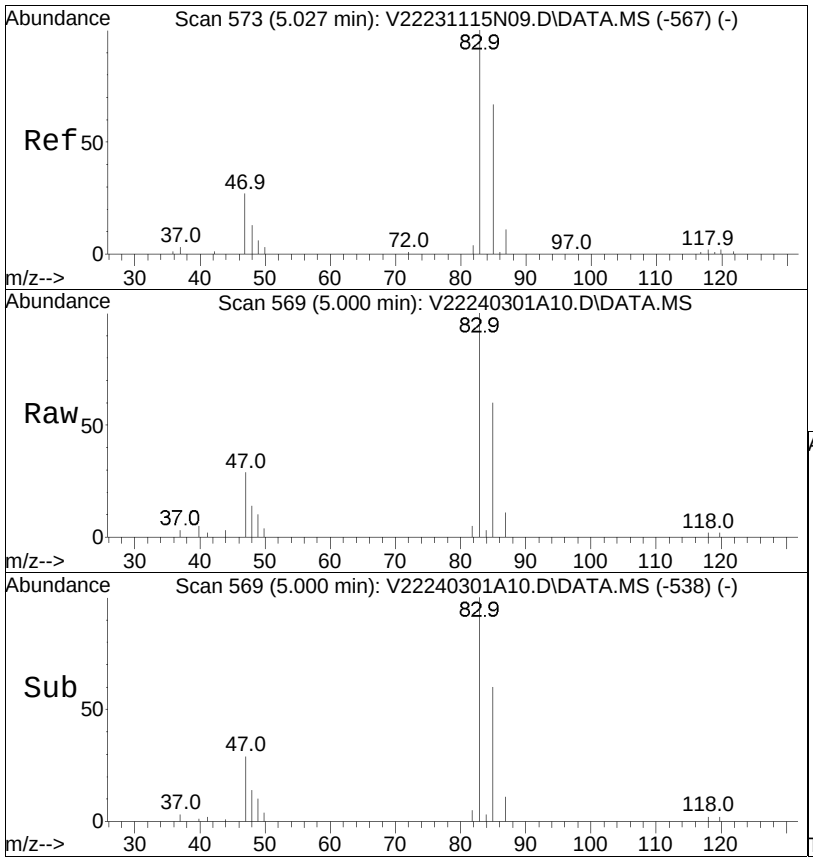
Quantitation Report (QT Reviewed)

Data Path : K:\VOA122\2024\240301A\
Data File : V22240301A10.D
Acq On : 01 Mar 2024 12:08 pm
Operator : VOA122:MJV
Sample : L2410579-05,31,10,10,,A
Misc : WG1891888,ICAL20803
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Mar 04 10:58:48 2024
Quant Method : K:\VOA122\2024\240301A\V122_240122N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jan 24 07:06:18 2024
Response via : Initial Calibration

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

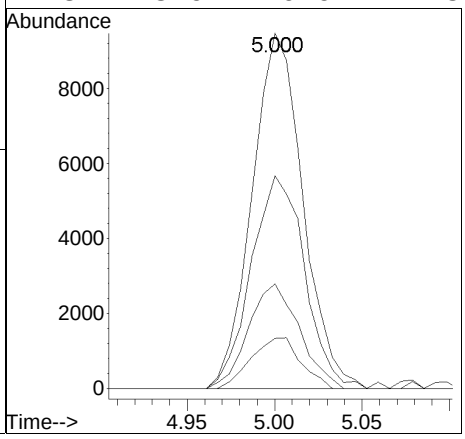




#34
Chloroform
Concen: 1.41 ug/L
RT: 5.000 min Scan# 569
Delta R.T. -0.000 min
Lab File: V22240301A10.D
Acq: 01 Mar 2024 12:08 pm

Tgt Ion: 83 Resp: 19133

Ion	Ratio	Lower	Upper
83	100		
85	62.9	42.4	88.2
47	29.6	14.0	29.0#
48	13.9	6.9	14.3



Manual Integration Report

Data Path	: K:\VOA122\2024\240301A\	QMethod	: V122_240122N_8260.m
Data File	: V22240301A10.D	Operator	: VOA122:MJV
Date Inj'd	: 3/1/2024 12:08 pm	Instrument	: VOA 122
Sample	: L2410579-05,31,10,10,,A	Quant Date	: 3/4/2024 8:50 am

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

Quantitation Report (QT Reviewed)

Data Path : K:\VOA122\2024\240301A\
Data File : V22240301A11.D
Acq On : 01 Mar 2024 12:33 pm
Operator : VOA122:MJV
Sample : L2410579-06,31,10,10,,A
Misc : WG1891888,ICAL20803
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Mar 04 10:58:58 2024
Quant Method : K:\VOA122\2024\240301A\V122_240122N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jan 24 07:06:18 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA122\2024\240301A\V22240301A01.D
Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	5.990	96	488433	10.000	ug/L	0.00
Standard Area 1 = 514325			Recovery = 94.97%			
62) Chlorobenzene-d5	9.533	117	423249	10.000	ug/L	0.00
Standard Area 1 = 441026			Recovery = 95.97%			
83) 1,4-Dichlorobenzene-d4	12.243	152	214904	10.000	ug/L	0.00
Standard Area 1 = 230262			Recovery = 93.33%			
System Monitoring Compounds						
38) Dibromofluoromethane	5.177	113	180659	10.517	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 105.17%			
46) 1,2-Dichloroethane-d4	5.701	65	177790	11.272	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 112.72%			
63) Toluene-d8	7.689	98	529613	10.033	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.33%			
87) 4-Bromofluorobenzene	11.033	95	197438	9.993	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.93%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	0.000		0	N.D.		
3) Chloromethane	1.821	50	69	N.D.		
4) Vinyl chloride	0.000		0	N.D.		
5) Bromomethane	2.202	94	309	N.D.		
6) Chloroethane	0.000		0	N.D.		
7) Trichlorofluoromethane	0.000		0	N.D.		
10) 1,1-Dichloroethene	0.000		0	N.D.		
11) Carbon disulfide	2.975	76	393	N.D.		
12) Freon-113	0.000		0	N.D.		
15) Methylene chloride	3.486	84	182	N.D.		
17) Acetone	0.000		0	N.D.	d	
18) trans-1,2-Dichloroethene	0.000		0	N.D.		
19) Methyl acetate	3.643	43	124	N.D.		
21) Methyl tert-butyl ether	0.000		0	N.D.		
25) 1,1-Dichloroethane	0.000		0	N.D.		
30) cis-1,2-Dichloroethene	4.830	96	161	N.D.		
32) Bromochloromethane	0.000		0	N.D.		
33) Cyclohexane	0.000		0	N.D.		
34) Chloroform	0.000		0	N.D.		
36) Carbon tetrachloride	0.000		0	N.D.		

Data Path : K:\VOA122\2024\240301A\
Data File : V22240301A11.D
Acq On : 01 Mar 2024 12:33 pm
Operator : VOA122:MJV
Sample : L2410579-06,31,10,10,,A
Misc : WG1891888,ICAL20803
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Mar 04 10:58:58 2024
Quant Method : K:\VOA122\2024\240301A\V122_240122N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jan 24 07:06:18 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA122\2024\240301A\V22240301A01.D
Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) 1,1,1-Trichloroethane	0.000		0	N.D.		
41) 2-Butanone	0.000		0	N.D.		
44) Benzene	0.000		0	N.D.		
47) 1,2-Dichloroethane	0.000		0	N.D.		
50) Methyl cyclohexane	0.000		0	N.D.		
51) Trichloroethene	0.000		0	N.D.	d	
54) 1,2-Dichloropropane	0.000		0	N.D.		
57) Bromodichloromethane	0.000		0	N.D.		
60) 1,4-Dioxane	0.000		0	N.D.		
61) cis-1,3-Dichloropropene	0.000		0	N.D.		
64) Toluene	7.737	92	66	N.D.		
65) 4-Methyl-2-pentanone	0.000		0	N.D.		
66) Tetrachloroethene	0.000		0	N.D.		
68) trans-1,3-Dichloropropene	0.000		0	N.D.		
71) 1,1,2-Trichloroethane	0.000		0	N.D.		
72) Chlorodibromomethane	0.000		0	N.D.		
74) 1,2-Dibromoethane	0.000		0	N.D.		
76) 2-Hexanone	0.000		0	N.D.		
77) Chlorobenzene	0.000		0	N.D.		
78) Ethylbenzene	9.533	91	800	N.D.		
80) p/m Xylene	0.000		0	N.D.		
81) o Xylene	0.000		0	N.D.		
82) Styrene	0.000		0	N.D.		
84) Bromoform	0.000		0	N.D.		
86) Isopropylbenzene	0.000		0	N.D.		
91) 1,1,2,2-Tetrachloroethane	0.000		0	N.D.		
104) 1,3-Dichlorobenzene	0.000		0	N.D.		
105) 1,4-Dichlorobenzene	0.000		0	N.D.		
108) 1,2-Dichlorobenzene	0.000		0	N.D.		
110) 1,2-Dibromo-3-chloropr...	0.000		0	N.D.		
113) 1,2,4-Trichlorobenzene	0.000		0	N.D.		
115) 1,2,3-Trichlorobenzene	0.000		0	N.D.		

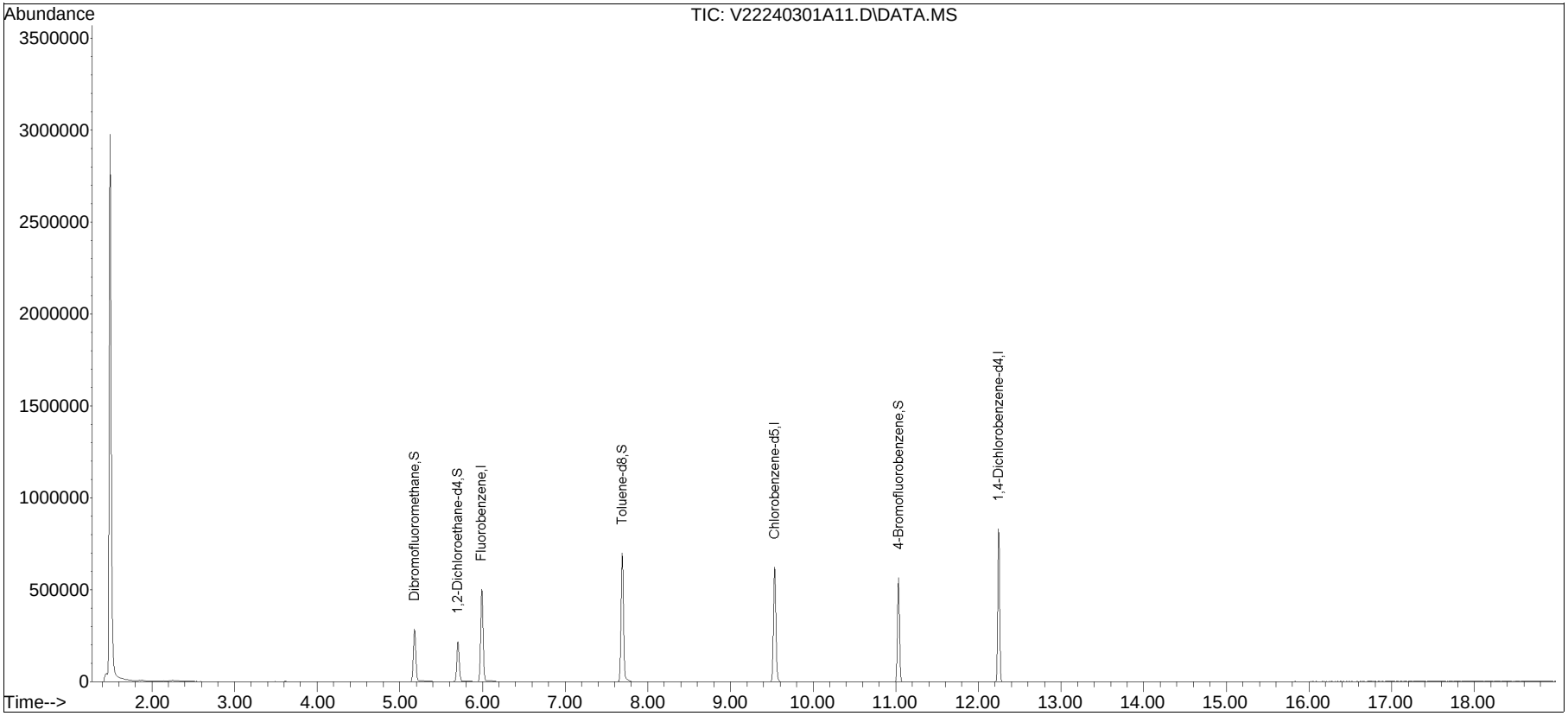
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : K:\VOA122\2024\240301A\
Data File : V22240301A11.D
Acq On : 01 Mar 2024 12:33 pm
Operator : VOA122:MJV
Sample : L2410579-06,31,10,10,,A
Misc : WG1891888,ICAL20803
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Mar 04 10:58:58 2024
Quant Method : K:\VOA122\2024\240301A\V122_240122N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jan 24 07:06:18 2024
Response via : Initial Calibration

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



Manual Integration Report

Data Path	: K:\VOA122\2024\240301A\	QMethod	: V122_240122N_8260.m
Data File	: V22240301A11.D	Operator	: VOA122:MJV
Date Inj'd	: 3/1/2024 12:33 pm	Instrument	: VOA 122
Sample	: L2410579-06,31,10,10,,A	Quant Date	: 3/4/2024 8:50 am

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

Quantitation Report (QT Reviewed)

Data Path : K:\VOA122\2024\240301A\
Data File : V22240301A12.D
Acq On : 01 Mar 2024 12:58 pm
Operator : VOA122:MJV
Sample : L2410579-07,31,10,10,,A
Misc : WG1891888,ICAL20803
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Mar 04 10:59:20 2024
Quant Method : K:\VOA122\2024\240301A\V122_240122N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jan 24 07:06:18 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA122\2024\240301A\V22240301A01.D
Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	5.990	96	462973	10.000	ug/L	0.00
Standard Area 1 = 514325			Recovery = 90.02%			
62) Chlorobenzene-d5	9.533	117	414708	10.000	ug/L	0.00
Standard Area 1 = 441026			Recovery = 94.03%			
83) 1,4-Dichlorobenzene-d4	12.243	152	212319	10.000	ug/L	0.00
Standard Area 1 = 230262			Recovery = 92.21%			
System Monitoring Compounds						
38) Dibromofluoromethane	5.177	113	177239	10.885	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 108.85%			
46) 1,2-Dichloroethane-d4	5.702	65	170031	11.373	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 113.73%			
63) Toluene-d8	7.689	98	520264	10.059	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.59%			
87) 4-Bromofluorobenzene	11.034	95	191533	9.812	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 98.12%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.468	85	65	N.D.		
3) Chloromethane	0.000		0	N.D.		
4) Vinyl chloride	0.000		0	N.D.		
5) Bromomethane	2.202	94	175	N.D.		
6) Chloroethane	0.000		0	N.D.		
7) Trichlorofluoromethane	0.000		0	N.D.		
10) 1,1-Dichloroethene	0.000		0	N.D.		
11) Carbon disulfide	2.982	76	435	N.D.		
12) Freon-113	0.000		0	N.D.		
15) Methylene chloride	3.493	84	280	N.D.		
17) Acetone	0.000		0	N.D.	d	
18) trans-1,2-Dichloroethene	0.000		0	N.D.		
19) Methyl acetate	0.000		0	N.D.	d	
21) Methyl tert-butyl ether	0.000		0	N.D.		
25) 1,1-Dichloroethane	0.000		0	N.D.		
30) cis-1,2-Dichloroethene	4.823	96	78	N.D.		
32) Bromochloromethane	0.000		0	N.D.		
33) Cyclohexane	0.000		0	N.D.		
34) Chloroform	0.000		0	N.D.		
36) Carbon tetrachloride	0.000		0	N.D.		

Data Path : K:\VOA122\2024\240301A\
Data File : V22240301A12.D
Acq On : 01 Mar 2024 12:58 pm
Operator : VOA122:MJV
Sample : L2410579-07,31,10,10,,A
Misc : WG1891888,ICAL20803
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Mar 04 10:59:20 2024
Quant Method : K:\VOA122\2024\240301A\V122_240122N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jan 24 07:06:18 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA122\2024\240301A\V22240301A01.D
Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) 1,1,1-Trichloroethane	0.000		0		N.D.	
41) 2-Butanone	5.276	43	74		N.D.	
44) Benzene	0.000		0		N.D.	
47) 1,2-Dichloroethane	0.000		0		N.D.	
50) Methyl cyclohexane	0.000		0		N.D.	
51) Trichloroethene	6.127	95	321		N.D.	
54) 1,2-Dichloropropane	0.000		0		N.D.	
57) Bromodichloromethane	0.000		0		N.D.	
60) 1,4-Dioxane	0.000		0		N.D.	
61) cis-1,3-Dichloropropene	0.000		0		N.D.	
64) Toluene	0.000		0		N.D.	
65) 4-Methyl-2-pentanone	0.000		0		N.D.	
66) Tetrachloroethene	8.210	166	239		N.D.	
68) trans-1,3-Dichloropropene	0.000		0		N.D.	
71) 1,1,2-Trichloroethane	0.000		0		N.D.	
72) Chlorodibromomethane	0.000		0		N.D.	
74) 1,2-Dibromoethane	0.000		0		N.D.	
76) 2-Hexanone	0.000		0		N.D.	
77) Chlorobenzene	0.000		0		N.D.	
78) Ethylbenzene	9.540	91	823		N.D.	
80) p/m Xylene	0.000		0		N.D.	
81) o Xylene	0.000		0		N.D.	
82) Styrene	0.000		0		N.D.	
84) Bromoform	0.000		0		N.D.	
86) Isopropylbenzene	0.000		0		N.D.	
91) 1,1,2,2-Tetrachloroethane	0.000		0		N.D.	
104) 1,3-Dichlorobenzene	0.000		0		N.D.	
105) 1,4-Dichlorobenzene	0.000		0		N.D.	
108) 1,2-Dichlorobenzene	0.000		0		N.D.	
110) 1,2-Dibromo-3-chloropr...	0.000		0		N.D.	
113) 1,2,4-Trichlorobenzene	0.000		0		N.D.	
115) 1,2,3-Trichlorobenzene	0.000		0		N.D.	

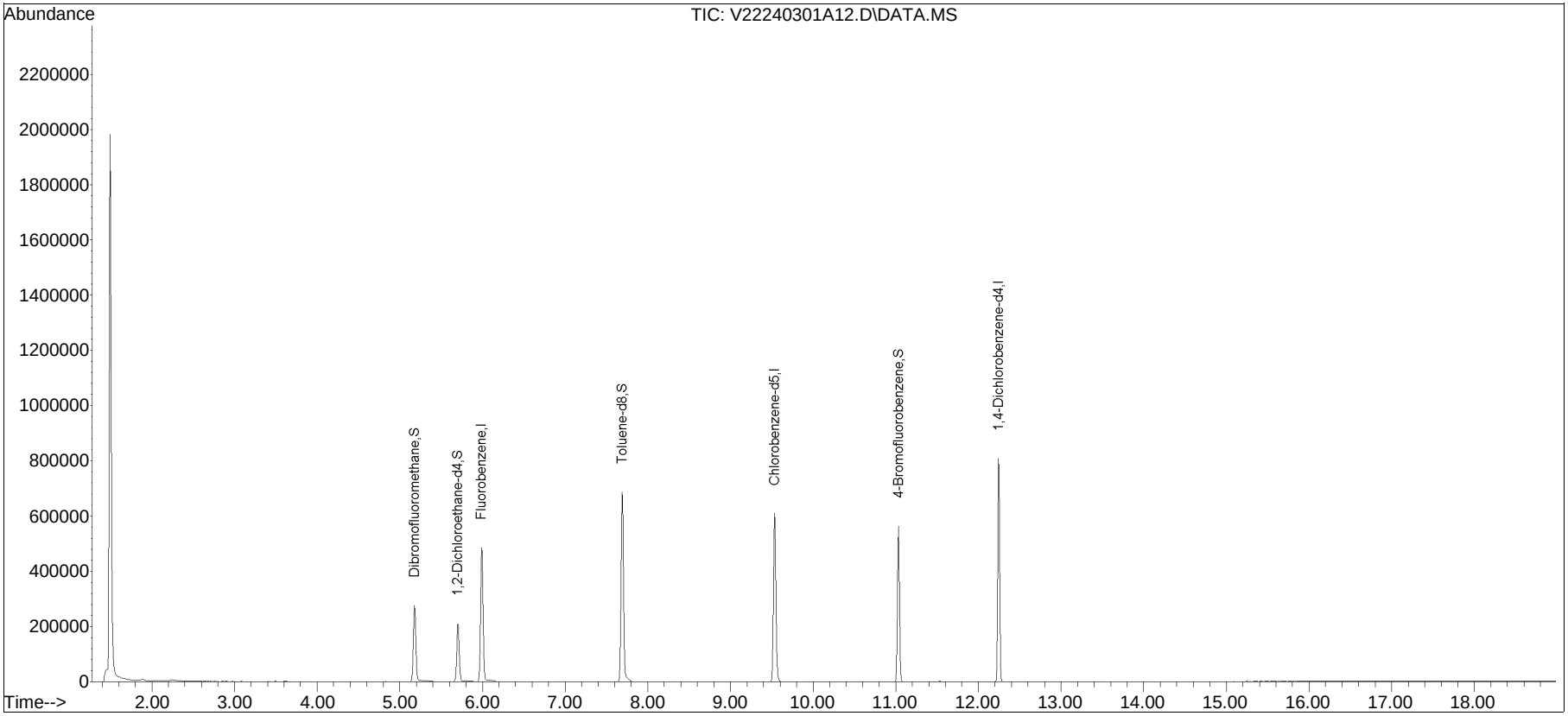
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : K:\VOA122\2024\240301A\
Data File : V22240301A12.D
Acq On : 01 Mar 2024 12:58 pm
Operator : VOA122:MJV
Sample : L2410579-07,31,10,10,,A
Misc : WG1891888,ICAL20803
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Mar 04 10:59:20 2024
Quant Method : K:\VOA122\2024\240301A\V122_240122N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jan 24 07:06:18 2024
Response via : Initial Calibration

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



Manual Integration Report

Data Path	: K:\VOA122\2024\240301A\	QMethod	: V122_240122N_8260.m
Data File	: V22240301A12.D	Operator	: VOA122:MJV
Date Inj'd	: 3/1/2024 12:58 pm	Instrument	: VOA 122
Sample	: L2410579-07,31,10,10,,A	Quant Date	: 3/4/2024 8:50 am

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

Quantitation Report (QT Reviewed)

Data Path : K:\VOA122\2024\240301A\
Data File : V22240301A13.D
Acq On : 01 Mar 2024 01:22 pm
Operator : VOA122:MJV
Sample : L2410579-08,31,10,10,,A
Misc : WG1891888,ICAL20803
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Mar 04 10:59:35 2024
Quant Method : K:\VOA122\2024\240301A\V122_240122N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jan 24 07:06:18 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA122\2024\240301A\V22240301A01.D
Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	5.996	96	449769	10.000	ug/L	0.00
Standard Area 1 = 514325			Recovery = 87.45%			
62) Chlorobenzene-d5	9.533	117	403643	10.000	ug/L	0.00
Standard Area 1 = 441026			Recovery = 91.52%			
83) 1,4-Dichlorobenzene-d4	12.243	152	206617	10.000	ug/L	0.00
Standard Area 1 = 230262			Recovery = 89.73%			
System Monitoring Compounds						
38) Dibromofluoromethane	5.177	113	172130	10.882	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 108.82%			
46) 1,2-Dichloroethane-d4	5.702	65	164635	11.335	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 113.35%			
63) Toluene-d8	7.689	98	512006	10.171	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 101.71%			
87) 4-Bromofluorobenzene	11.034	95	186963	9.843	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 98.43%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	0.000		0	N.D.	d	
3) Chloromethane	0.000		0	N.D.		
4) Vinyl chloride	0.000		0	N.D.		
5) Bromomethane	0.000		0	N.D.	d	
6) Chloroethane	0.000		0	N.D.		
7) Trichlorofluoromethane	0.000		0	N.D.		
10) 1,1-Dichloroethene	0.000		0	N.D.		
11) Carbon disulfide	2.982	76	472	N.D.		
12) Freon-113	0.000		0	N.D.		
15) Methylene chloride	3.493	84	324	N.D.		
17) Acetone	0.000		0	N.D.	d	
18) trans-1,2-Dichloroethene	0.000		0	N.D.		
19) Methyl acetate	3.663	43	75	N.D.		
21) Methyl tert-butyl ether	0.000		0	N.D.		
25) 1,1-Dichloroethane	0.000		0	N.D.		
30) cis-1,2-Dichloroethene	4.830	96	63	N.D.		
32) Bromochloromethane	0.000		0	N.D.		
33) Cyclohexane	0.000		0	N.D.		
34) Chloroform	5.000	83	61	N.D.		
36) Carbon tetrachloride	0.000		0	N.D.		

Data Path : K:\VOA122\2024\240301A\
Data File : V22240301A13.D
Acq On : 01 Mar 2024 01:22 pm
Operator : VOA122:MJV
Sample : L2410579-08,31,10,10,,A
Misc : WG1891888,ICAL20803
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Mar 04 10:59:35 2024
Quant Method : K:\VOA122\2024\240301A\V122_240122N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jan 24 07:06:18 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA122\2024\240301A\V22240301A01.D
Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) 1,1,1-Trichloroethane	0.000		0		N.D.	
41) 2-Butanone	0.000		0		N.D.	
44) Benzene	0.000		0		N.D.	
47) 1,2-Dichloroethane	0.000		0		N.D.	
50) Methyl cyclohexane	0.000		0		N.D.	
51) Trichloroethene	6.147	95	313		N.D.	
54) 1,2-Dichloropropane	0.000		0		N.D.	
57) Bromodichloromethane	0.000		0		N.D.	
60) 1,4-Dioxane	0.000		0		N.D.	
61) cis-1,3-Dichloropropene	0.000		0		N.D.	
64) Toluene	0.000		0		N.D.	
65) 4-Methyl-2-pentanone	0.000		0		N.D.	
66) Tetrachloroethene	0.000		0		N.D.	
68) trans-1,3-Dichloropropene	0.000		0		N.D.	
71) 1,1,2-Trichloroethane	0.000		0		N.D.	
72) Chlorodibromomethane	0.000		0		N.D.	
74) 1,2-Dibromoethane	0.000		0		N.D.	
76) 2-Hexanone	0.000		0		N.D.	
77) Chlorobenzene	0.000		0		N.D.	
78) Ethylbenzene	9.533	91	808		N.D.	
80) p/m Xylene	0.000		0		N.D.	
81) o Xylene	0.000		0		N.D.	
82) Styrene	0.000		0		N.D.	
84) Bromoform	0.000		0		N.D.	
86) Isopropylbenzene	0.000		0		N.D.	
91) 1,1,2,2-Tetrachloroethane	0.000		0		N.D.	
104) 1,3-Dichlorobenzene	0.000		0		N.D.	
105) 1,4-Dichlorobenzene	0.000		0		N.D.	
108) 1,2-Dichlorobenzene	0.000		0		N.D.	
110) 1,2-Dibromo-3-chloropr...	0.000		0		N.D.	
113) 1,2,4-Trichlorobenzene	0.000		0		N.D.	
115) 1,2,3-Trichlorobenzene	0.000		0		N.D.	

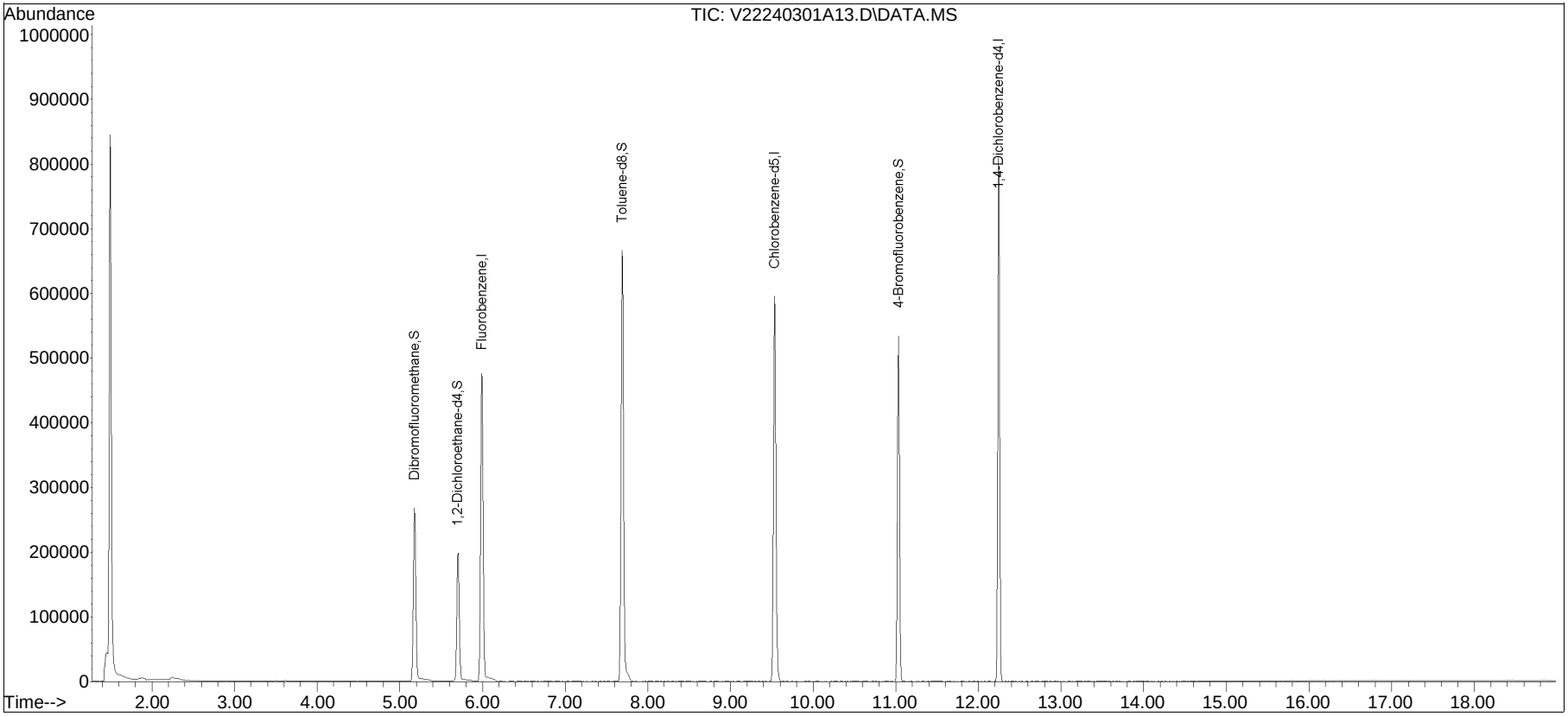
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : K:\VOA122\2024\240301A\
Data File : V22240301A13.D
Acq On : 01 Mar 2024 01:22 pm
Operator : VOA122:MJV
Sample : L2410579-08,31,10,10,,A
Misc : WG1891888,ICAL20803
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Mar 04 10:59:35 2024
Quant Method : K:\VOA122\2024\240301A\V122_240122N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jan 24 07:06:18 2024
Response via : Initial Calibration

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



Manual Integration Report

Data Path	: K:\VOA122\2024\240301A\	QMethod	: V122_240122N_8260.m
Data File	: V22240301A13.D	Operator	: VOA122:MJV
Date Inj'd	: 3/1/2024 1:22 pm	Instrument	: VOA 122
Sample	: L2410579-08,31,10,10,,A	Quant Date	: 3/4/2024 8:50 am

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

Quantitation Report (QT Reviewed)

Data Path : K:\VOA122\2024\240301A\
Data File : V22240301A14.D
Acq On : 01 Mar 2024 01:46 pm
Operator : VOA122:MJV
Sample : L2410579-09,31,10,10,,A
Misc : WG1891888,ICAL20803
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Mar 04 10:59:48 2024
Quant Method : K:\VOA122\2024\240301A\V122_240122N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jan 24 07:06:18 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA122\2024\240301A\V22240301A01.D
Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	5.990	96	444524	10.000	ug/L	0.00
Standard Area 1 = 514325			Recovery = 86.43%			
62) Chlorobenzene-d5	9.533	117	399260	10.000	ug/L	0.00
Standard Area 1 = 441026			Recovery = 90.53%			
83) 1,4-Dichlorobenzene-d4	12.244	152	207373	10.000	ug/L	0.00
Standard Area 1 = 230262			Recovery = 90.06%			
System Monitoring Compounds						
38) Dibromofluoromethane	5.178	113	172029	11.004	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 110.04%			
46) 1,2-Dichloroethane-d4	5.702	65	163119	11.364	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 113.64%			
63) Toluene-d8	7.689	98	503094	10.104	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 101.04%			
87) 4-Bromofluorobenzene	11.034	95	185966	9.754	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 97.54%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	0.000		0	N.D.	d	
3) Chloromethane	0.000		0	N.D.		
4) Vinyl chloride	0.000		0	N.D.		
5) Bromomethane	2.202	94	199	N.D.		
6) Chloroethane	0.000		0	N.D.		
7) Trichlorofluoromethane	0.000		0	N.D.		
10) 1,1-Dichloroethene	0.000		0	N.D.		
11) Carbon disulfide	2.975	76	405	N.D.		
12) Freon-113	0.000		0	N.D.		
15) Methylene chloride	3.500	84	430	N.D.		
17) Acetone	0.000		0	N.D.	d	
18) trans-1,2-Dichloroethene	0.000		0	N.D.		
19) Methyl acetate	3.677	43	65	N.D.		
21) Methyl tert-butyl ether	0.000		0	N.D.		
25) 1,1-Dichloroethane	0.000		0	N.D.		
30) cis-1,2-Dichloroethene	4.824	96	287	N.D.		
32) Bromochloromethane	0.000		0	N.D.		
33) Cyclohexane	0.000		0	N.D.		
34) Chloroform	0.000		0	N.D.		
36) Carbon tetrachloride	0.000		0	N.D.		

Data Path : K:\VOA122\2024\240301A\
Data File : V22240301A14.D
Acq On : 01 Mar 2024 01:46 pm
Operator : VOA122:MJV
Sample : L2410579-09,31,10,10,,A
Misc : WG1891888,ICAL20803
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Mar 04 10:59:48 2024
Quant Method : K:\VOA122\2024\240301A\V122_240122N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jan 24 07:06:18 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA122\2024\240301A\V22240301A01.D
Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) 1,1,1-Trichloroethane	0.000		0		N.D.	
41) 2-Butanone	0.000		0		N.D.	
44) Benzene	0.000		0		N.D.	
47) 1,2-Dichloroethane	0.000		0		N.D.	
50) Methyl cyclohexane	0.000		0		N.D.	
51) Trichloroethene	0.000		0		N.D.	d
54) 1,2-Dichloropropane	0.000		0		N.D.	
57) Bromodichloromethane	0.000		0		N.D.	
60) 1,4-Dioxane	0.000		0		N.D.	
61) cis-1,3-Dichloropropene	0.000		0		N.D.	
64) Toluene	7.752	92	77		N.D.	
65) 4-Methyl-2-pentanone	0.000		0		N.D.	
66) Tetrachloroethene	0.000		0		N.D.	
68) trans-1,3-Dichloropropene	0.000		0		N.D.	
71) 1,1,2-Trichloroethane	0.000		0		N.D.	
72) Chlorodibromomethane	0.000		0		N.D.	
74) 1,2-Dibromoethane	0.000		0		N.D.	
76) 2-Hexanone	0.000		0		N.D.	
77) Chlorobenzene	0.000		0		N.D.	
78) Ethylbenzene	9.533	91	880		N.D.	
80) p/m Xylene	0.000		0		N.D.	
81) o Xylene	0.000		0		N.D.	
82) Styrene	0.000		0		N.D.	
84) Bromoform	0.000		0		N.D.	
86) Isopropylbenzene	0.000		0		N.D.	
91) 1,1,2,2-Tetrachloroethane	0.000		0		N.D.	
104) 1,3-Dichlorobenzene	0.000		0		N.D.	
105) 1,4-Dichlorobenzene	0.000		0		N.D.	
108) 1,2-Dichlorobenzene	0.000		0		N.D.	
110) 1,2-Dibromo-3-chloropr...	0.000		0		N.D.	
113) 1,2,4-Trichlorobenzene	0.000		0		N.D.	
115) 1,2,3-Trichlorobenzene	0.000		0		N.D.	

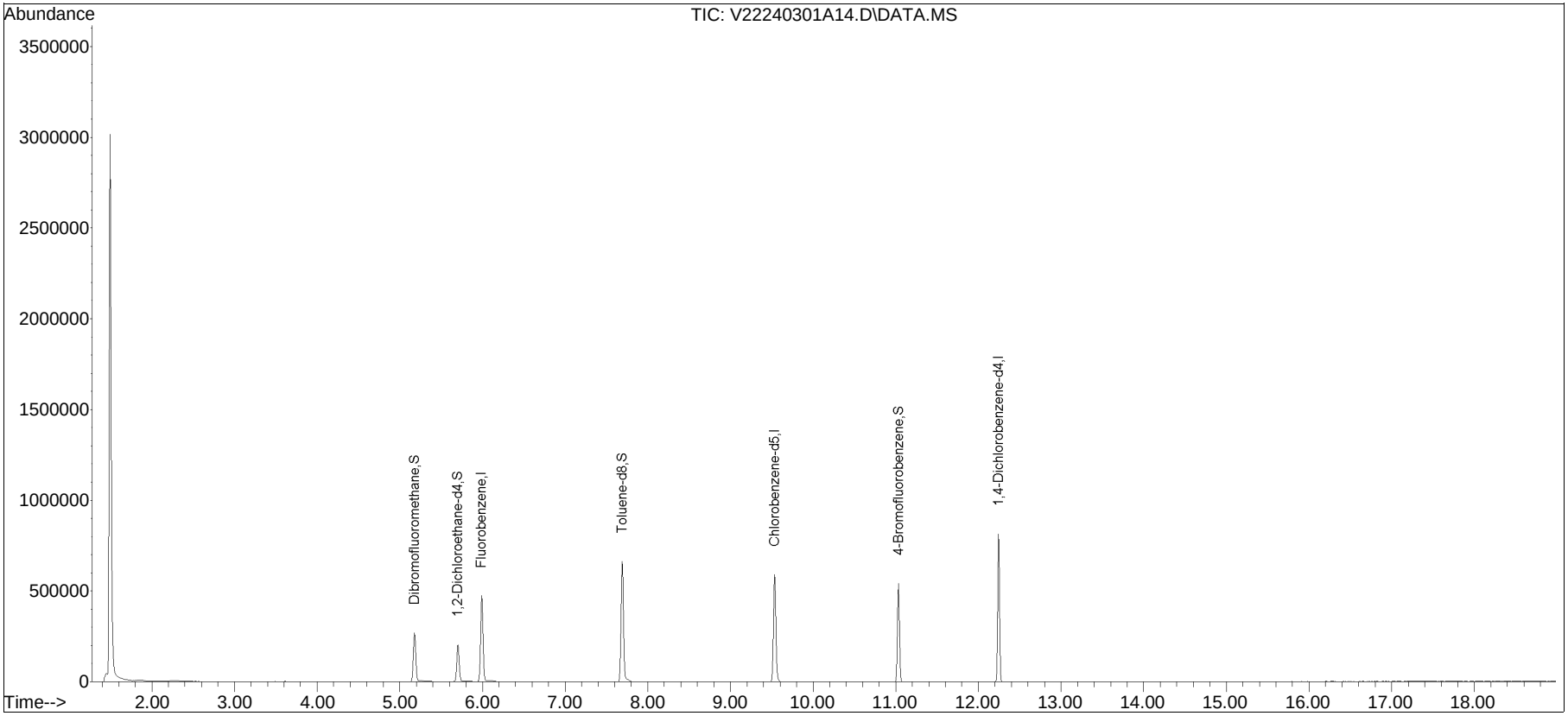
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : K:\VOA122\2024\240301A\
Data File : V22240301A14.D
Acq On : 01 Mar 2024 01:46 pm
Operator : VOA122:MJV
Sample : L2410579-09,31,10,10,,A
Misc : WG1891888,ICAL20803
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Mar 04 10:59:48 2024
Quant Method : K:\VOA122\2024\240301A\V122_240122N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jan 24 07:06:18 2024
Response via : Initial Calibration

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



Manual Integration Report

Data Path	: K:\VOA122\2024\240301A\	QMethod	: V122_240122N_8260.m
Data File	: V22240301A14.D	Operator	: VOA122:MJV
Date Inj'd	: 3/1/2024 1:46 pm	Instrument	: VOA 122
Sample	: L2410579-09,31,10,10,,A	Quant Date	: 3/4/2024 8:50 am

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

Quantitation Report (QT Reviewed)

Data Path : K:\VOA122\2024\240301A\
Data File : V22240301A15.D
Acq On : 01 Mar 2024 02:11 pm
Operator : VOA122:MJV
Sample : L2410579-10,31,10,10,,A
Misc : WG1891888,ICAL20803
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Mar 04 11:00:04 2024
Quant Method : K:\VOA122\2024\240301A\V122_240122N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jan 24 07:06:18 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA122\2024\240301A\V22240301A01.D
Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	5.990	96	432350	10.000	ug/L	0.00
Standard Area 1 = 514325			Recovery =	84.06%		
62) Chlorobenzene-d5	9.533	117	388503	10.000	ug/L	0.00
Standard Area 1 = 441026			Recovery =	88.09%		
83) 1,4-Dichlorobenzene-d4	12.243	152	199563	10.000	ug/L	0.00
Standard Area 1 = 230262			Recovery =	86.67%		
System Monitoring Compounds						
38) Dibromofluoromethane	5.177	113	165927	10.912	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	109.12%		
46) 1,2-Dichloroethane-d4	5.702	65	162796	11.660	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	116.60%		
63) Toluene-d8	7.689	98	487485	10.061	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	100.61%		
87) 4-Bromofluorobenzene	11.033	95	180538	9.840	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	98.40%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	0.000		0	N.D.		
3) Chloromethane	0.000		0	N.D.		
4) Vinyl chloride	0.000		0	N.D.		
5) Bromomethane	2.202	94	74	N.D.		
6) Chloroethane	0.000		0	N.D.		
7) Trichlorofluoromethane	0.000		0	N.D.		
10) 1,1-Dichloroethene	0.000		0	N.D.		
11) Carbon disulfide	2.975	76	802	N.D.		
12) Freon-113	0.000		0	N.D.		
15) Methylene chloride	3.499	84	260	N.D.		
17) Acetone	3.526	43	1336	1.038	ug/L #	66
18) trans-1,2-Dichloroethene	0.000		0	N.D.		
19) Methyl acetate	0.000		0	N.D. d		
21) Methyl tert-butyl ether	0.000		0	N.D.		
25) 1,1-Dichloroethane	0.000		0	N.D.		
30) cis-1,2-Dichloroethene	4.830	96	300	N.D.		
32) Bromochloromethane	0.000		0	N.D.		
33) Cyclohexane	0.000		0	N.D.		
34) Chloroform	0.000		0	N.D.		
36) Carbon tetrachloride	0.000		0	N.D.		

Data Path : K:\VOA122\2024\240301A\
Data File : V22240301A15.D
Acq On : 01 Mar 2024 02:11 pm
Operator : VOA122:MJV
Sample : L2410579-10,31,10,10,,A
Misc : WG1891888,ICAL20803
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Mar 04 11:00:04 2024
Quant Method : K:\VOA122\2024\240301A\V122_240122N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jan 24 07:06:18 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA122\2024\240301A\V22240301A01.D
Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) 1,1,1-Trichloroethane	0.000		0	N.D.		
41) 2-Butanone	0.000		0	N.D.	d	
44) Benzene	0.000		0	N.D.		
47) 1,2-Dichloroethane	0.000		0	N.D.		
50) Methyl cyclohexane	0.000		0	N.D.		
51) Trichloroethene	0.000		0	N.D.	d	
54) 1,2-Dichloropropane	0.000		0	N.D.		
57) Bromodichloromethane	0.000		0	N.D.		
60) 1,4-Dioxane	0.000		0	N.D.		
61) cis-1,3-Dichloropropene	0.000		0	N.D.		
64) Toluene	0.000		0	N.D.		
65) 4-Methyl-2-pentanone	0.000		0	N.D.		
66) Tetrachloroethene	0.000		0	N.D.		
68) trans-1,3-Dichloropropene	0.000		0	N.D.		
71) 1,1,2-Trichloroethane	0.000		0	N.D.		
72) Chlorodibromomethane	0.000		0	N.D.		
74) 1,2-Dibromoethane	0.000		0	N.D.		
76) 2-Hexanone	0.000		0	N.D.	d	
77) Chlorobenzene	0.000		0	N.D.		
78) Ethylbenzene	9.533	91	781	N.D.		
80) p/m Xylene	0.000		0	N.D.		
81) o Xylene	0.000		0	N.D.		
82) Styrene	0.000		0	N.D.		
84) Bromoform	0.000		0	N.D.		
86) Isopropylbenzene	0.000		0	N.D.		
91) 1,1,2,2-Tetrachloroethane	0.000		0	N.D.		
104) 1,3-Dichlorobenzene	0.000		0	N.D.		
105) 1,4-Dichlorobenzene	0.000		0	N.D.		
108) 1,2-Dichlorobenzene	0.000		0	N.D.		
110) 1,2-Dibromo-3-chloropr...	0.000		0	N.D.		
113) 1,2,4-Trichlorobenzene	0.000		0	N.D.		
115) 1,2,3-Trichlorobenzene	0.000		0	N.D.		

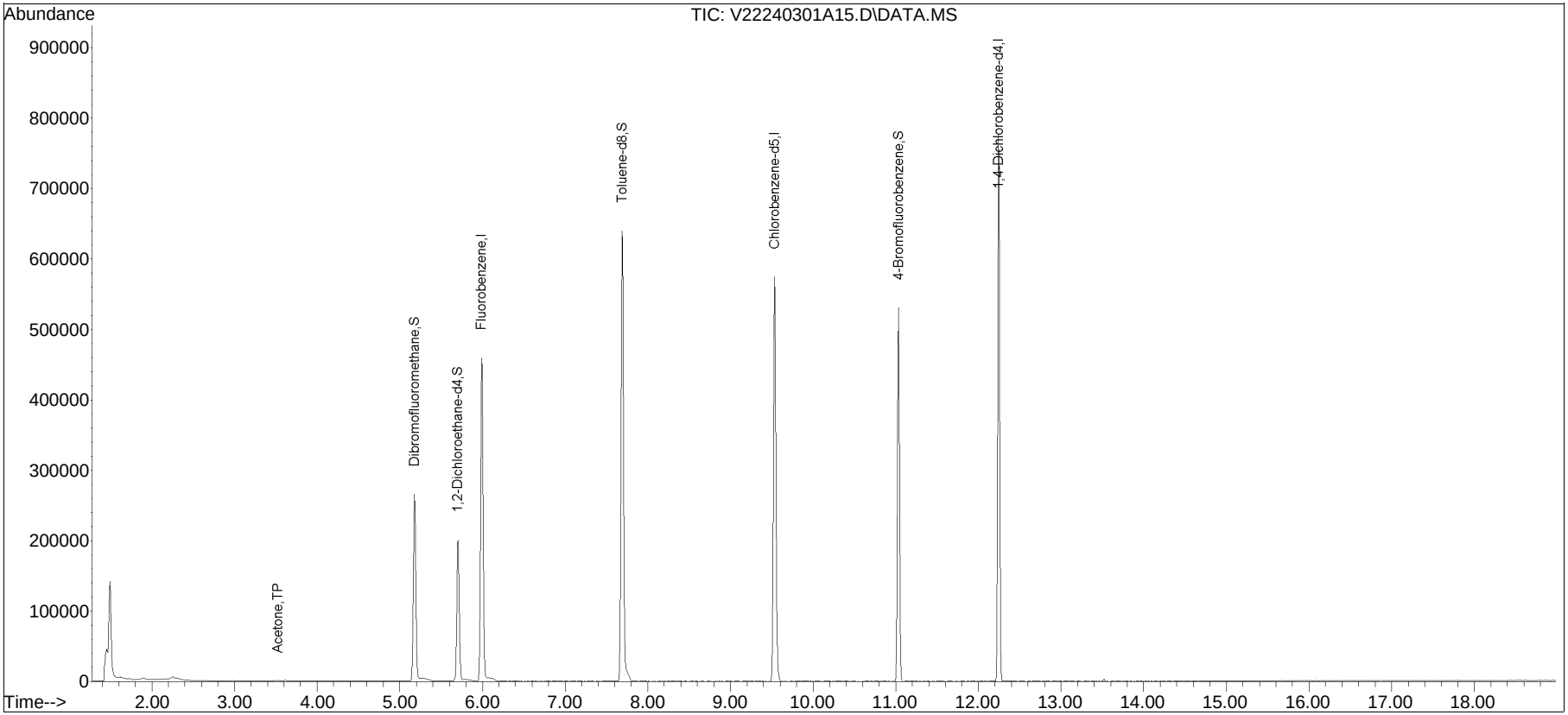
(#) = qualifier out of range (m) = manual integration (+) = signals summed

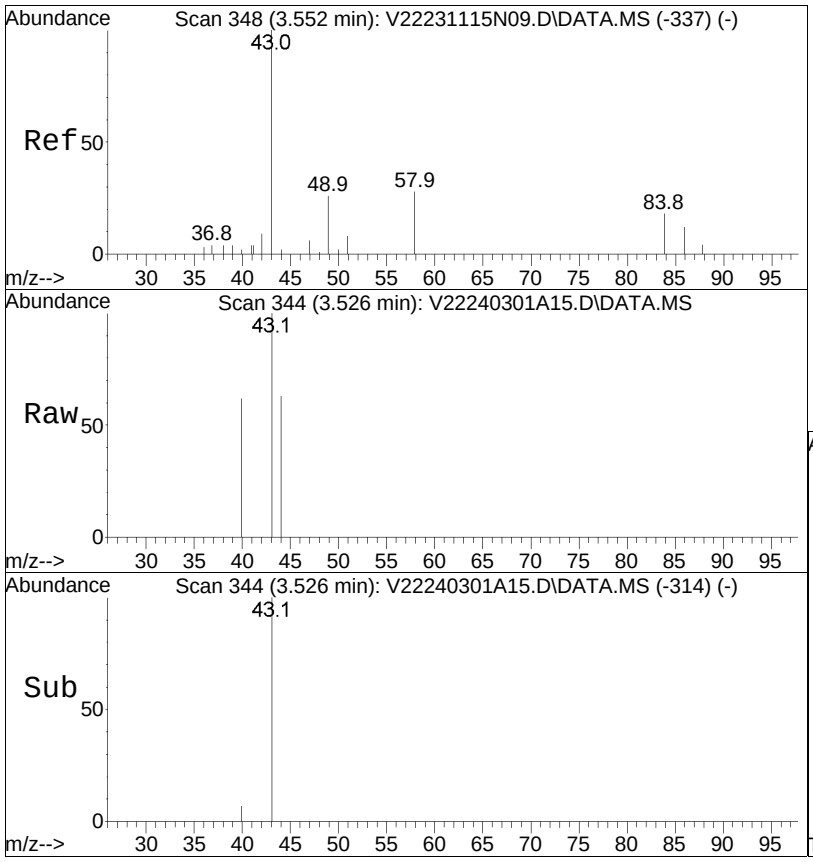
Quantitation Report (QT Reviewed)

Data Path : K:\VOA122\2024\240301A\
Data File : V22240301A15.D
Acq On : 01 Mar 2024 02:11 pm
Operator : VOA122:MJV
Sample : L2410579-10,31,10,10,,A
Misc : WG1891888,ICAL20803
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Mar 04 11:00:04 2024
Quant Method : K:\VOA122\2024\240301A\V122_240122N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jan 24 07:06:18 2024
Response via : Initial Calibration

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

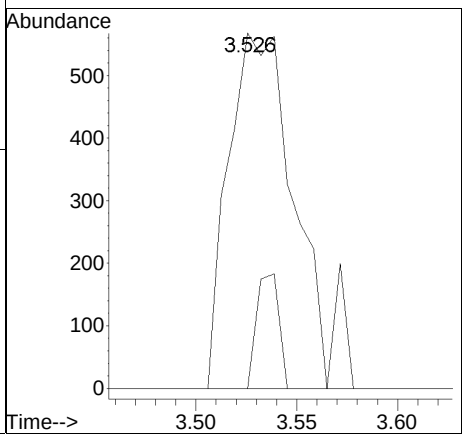




#17
Acetone
Concen: 1.04 ug/L
RT: 3.526 min Scan# 344
Delta R.T. -0.000 min
Lab File: V22240301A15.D
Acq: 01 Mar 2024 02:11 pm

Tgt Ion: 43 Resp: 1336

Ion	Ratio	Lower	Upper
43	100		
58	10.6	23.1	34.7#



Manual Integration Report

Data Path	: K:\VOA122\2024\240301A\	QMethod	: V122_240122N_8260.m
Data File	: V22240301A15.D	Operator	: VOA122:MJV
Date Inj'd	: 3/1/2024 2:11 pm	Instrument	: VOA 122
Sample	: L2410579-10,31,10,10,,A	Quant Date	: 3/4/2024 8:50 am

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

Quantitation Report (QT Reviewed)

Data Path : K:\VOA122\2024\240301A\
Data File : V22240301A16.D
Acq On : 01 Mar 2024 02:35 pm
Operator : VOA122:MJV
Sample : L2410579-11,31,10,10,,A
Misc : WG1891888,ICAL20803
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Mar 04 11:00:21 2024
Quant Method : K:\VOA122\2024\240301A\V122_240122N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jan 24 07:06:18 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA122\2024\240301A\V22240301A01.D
Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	5.990	96	437624	10.000	ug/L	0.00
Standard Area 1 = 514325			Recovery = 85.09%			
62) Chlorobenzene-d5	9.533	117	390010	10.000	ug/L	0.00
Standard Area 1 = 441026			Recovery = 88.43%			
83) 1,4-Dichlorobenzene-d4	12.244	152	202045	10.000	ug/L	0.00
Standard Area 1 = 230262			Recovery = 87.75%			
System Monitoring Compounds						
38) Dibromofluoromethane	5.177	113	168470	10.946	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 109.46%			
46) 1,2-Dichloroethane-d4	5.702	65	158210	11.195	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 111.95%			
63) Toluene-d8	7.689	98	493107	10.138	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 101.38%			
87) 4-Bromofluorobenzene	11.034	95	180056	9.694	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 96.94%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.461	85	229	N.D.		
3) Chloromethane	1.815	50	214	N.D.		
4) Vinyl chloride	0.000		0	N.D.		
5) Bromomethane	2.208	94	159	N.D.		
6) Chloroethane	0.000		0	N.D.		
7) Trichlorofluoromethane	0.000		0	N.D.		
10) 1,1-Dichloroethene	0.000		0	N.D.		
11) Carbon disulfide	2.975	76	530	N.D.		
12) Freon-113	0.000		0	N.D.		
15) Methylene chloride	3.500	84	424	N.D.		
17) Acetone	0.000		0	N.D.	d	
18) trans-1,2-Dichloroethene	0.000		0	N.D.		
19) Methyl acetate	3.670	43	132	N.D.		
21) Methyl tert-butyl ether	0.000		0	N.D.		
25) 1,1-Dichloroethane	0.000		0	N.D.		
30) cis-1,2-Dichloroethene	4.817	96	139	N.D.		
32) Bromochloromethane	0.000		0	N.D.		
33) Cyclohexane	0.000		0	N.D.		
34) Chloroform	0.000		0	N.D.		
36) Carbon tetrachloride	0.000		0	N.D.		

Data Path : K:\VOA122\2024\240301A\
Data File : V22240301A16.D
Acq On : 01 Mar 2024 02:35 pm
Operator : VOA122:MJV
Sample : L2410579-11,31,10,10,,A
Misc : WG1891888,ICAL20803
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Mar 04 11:00:21 2024
Quant Method : K:\VOA122\2024\240301A\V122_240122N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jan 24 07:06:18 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA122\2024\240301A\V22240301A01.D
Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) 1,1,1-Trichloroethane	0.000		0		N.D.	
41) 2-Butanone	0.000		0		N.D.	
44) Benzene	5.584	78	68		N.D.	
47) 1,2-Dichloroethane	0.000		0		N.D.	
50) Methyl cyclohexane	0.000		0		N.D.	
51) Trichloroethene	6.088	95	400		N.D.	
54) 1,2-Dichloropropane	0.000		0		N.D.	
57) Bromodichloromethane	0.000		0		N.D.	
60) 1,4-Dioxane	0.000		0		N.D.	
61) cis-1,3-Dichloropropene	0.000		0		N.D.	
64) Toluene	7.745	92	67		N.D.	
65) 4-Methyl-2-pentanone	0.000		0		N.D.	
66) Tetrachloroethene	0.000		0		N.D.	
68) trans-1,3-Dichloropropene	0.000		0		N.D.	
71) 1,1,2-Trichloroethane	0.000		0		N.D.	
72) Chlorodibromomethane	0.000		0		N.D.	
74) 1,2-Dibromoethane	0.000		0		N.D.	
76) 2-Hexanone	0.000		0		N.D.	d
77) Chlorobenzene	0.000		0		N.D.	
78) Ethylbenzene	9.533	91	626		N.D.	
80) p/m Xylene	0.000		0		N.D.	
81) o Xylene	0.000		0		N.D.	
82) Styrene	0.000		0		N.D.	
84) Bromoform	0.000		0		N.D.	
86) Isopropylbenzene	0.000		0		N.D.	
91) 1,1,2,2-Tetrachloroethane	0.000		0		N.D.	
104) 1,3-Dichlorobenzene	0.000		0		N.D.	
105) 1,4-Dichlorobenzene	0.000		0		N.D.	
108) 1,2-Dichlorobenzene	0.000		0		N.D.	
110) 1,2-Dibromo-3-chloropr...	0.000		0		N.D.	
113) 1,2,4-Trichlorobenzene	0.000		0		N.D.	
115) 1,2,3-Trichlorobenzene	0.000		0		N.D.	

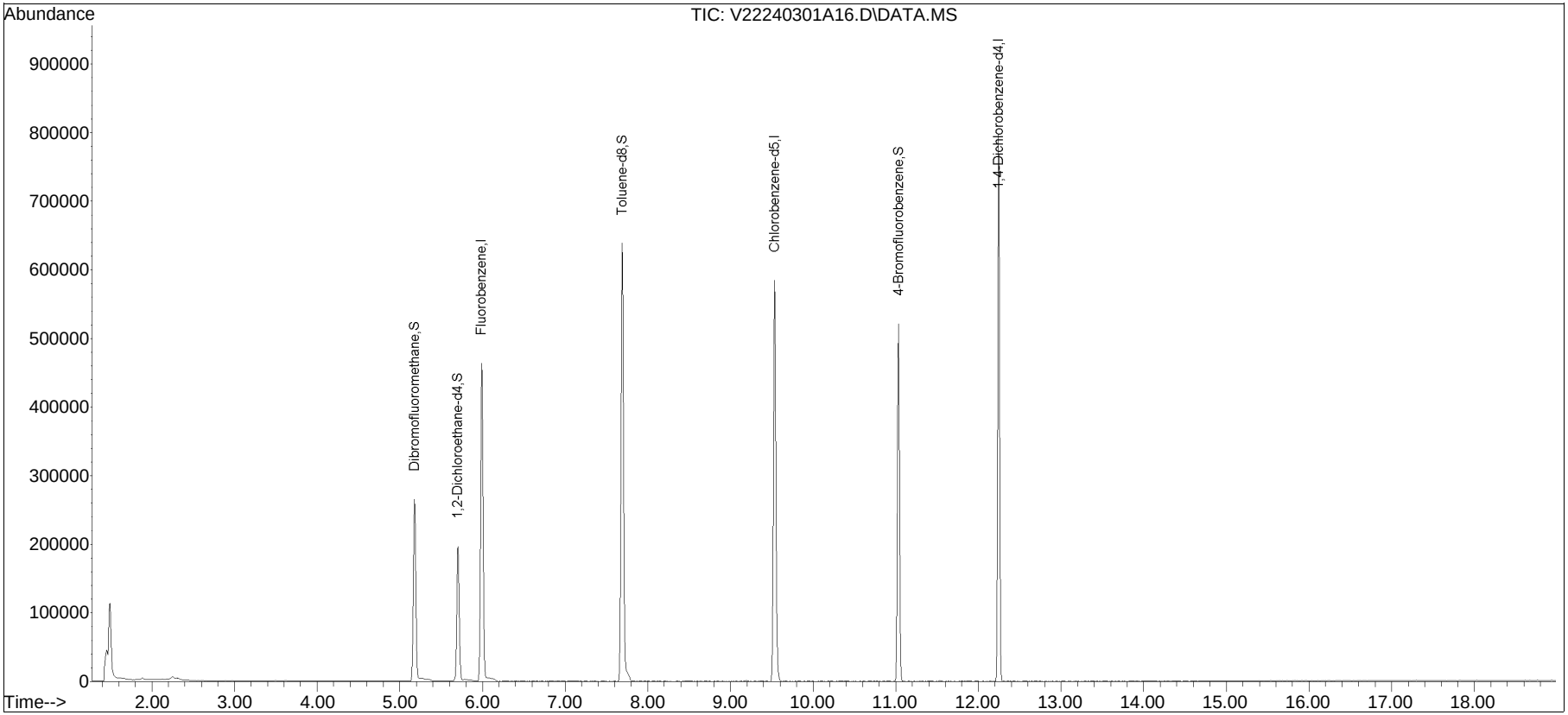
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : K:\VOA122\2024\240301A\
Data File : V22240301A16.D
Acq On : 01 Mar 2024 02:35 pm
Operator : VOA122:MJV
Sample : L2410579-11,31,10,10,,A
Misc : WG1891888,ICAL20803
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Mar 04 11:00:21 2024
Quant Method : K:\VOA122\2024\240301A\V122_240122N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jan 24 07:06:18 2024
Response via : Initial Calibration

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



Manual Integration Report

Data Path	: K:\VOA122\2024\240301A\	QMethod	: V122_240122N_8260.m
Data File	: V22240301A16.D	Operator	: VOA122:MJV
Date Inj'd	: 3/1/2024 2:35 pm	Instrument	: VOA 122
Sample	: L2410579-11,31,10,10,,A	Quant Date	: 3/4/2024 8:50 am

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

Volatiles Standards Data

Initial Calibration

Initial Calibration Summary
Form 6
Volatiles

Client	**: Alpha Geoscience**	**Lab Number**	**: L2410579**
Project Name	**: HUNTINGTON READY MIX**	**Project Number**	**: 20116**
Instrument ID	**: VOA122**	**Ical Ref**	**: ICAL20803**
Calibration dates	**: 01/22/24 22:47 01/23/24 22:06**		

Calibration Files
L11 =V22240122N03.D L1 =V22240123N03.D L2 =V22240122N07.D L3 =V22240122N08.D L4 =V22240122N09.D
L6 =V22240122N10.D L8 =V22240122N11.D L10 =V22240122N12.D

		Compound	L11	L1	L2	L3	L4	L6	L8	L10	Avg	%RSD
1)	I	Fluorobenzene	----------ISTD----------									
2)	TP	Dichlorodifluo		0.164	0.161	0.150	0.168	0.159	0.173	0.165	0.163	4.44
3)	TP	Chloromethane		0.262	0.295	0.265	0.250	0.236	0.234	0.224	0.252	9.50
4)	TC	Vinyl chloride	0.246	0.200	0.225	0.202	0.208	0.194	0.205	0.197	0.210	8.32
5)	TP	Bromomethane		0.152	0.153	0.132	0.119	0.109	0.110	0.108	0.126	15.57
6)	TP	Chloroethane		0.134	0.141	0.117	0.113	0.106	0.104	0.100	0.117	13.50
7)	TP	Trichlorofluor		0.225	0.223	0.206	0.230	0.219	0.239	0.232	0.225	4.75
8)	TP	Ethyl ether		0.056	0.057	0.058	0.058	0.056	0.057	0.057	0.057	1.66
10)	TC	1,1-Dichloroet		0.154	0.148	0.138	0.140	0.135	0.143	0.139	0.143	4.54
11)	TP	Carbon disulfide		0.485	0.512	0.475	0.458	0.426	0.445	0.430	0.462	6.76
12)	TP	Freon-113		0.131	0.124	0.116	0.133	0.126	0.149	0.148	0.132	9.14
13)	TP	Iodomethane		0.306	0.268	0.265	0.270	0.266	0.260	0.251	0.269	6.44
14)	TP	Acrolein			0.018	0.018	0.016	0.016	0.016	0.016	0.017	6.48
15)	TP	Methylene chlo		0.202	0.218	0.183	0.167	0.157	0.154	0.152	0.176	14.70
17)	TP	Acetone			0.036	0.032	0.029	0.027	0.028	0.027	0.030	11.83
18)	TP	trans-1,2-Dich		0.170	0.181	0.164	0.155	0.153	0.156	0.154	0.162	6.57
19)	TP	Methyl acetate		0.065	0.068	0.065	0.063	0.060	0.062	0.063	0.064	3.96
21)	TP	Methyl tert butyl ether		0.206	0.227	0.250	0.270	0.269	0.278	0.283	0.255	11.27
22)	TP	tert-Butyl alc			0.008	0.008	0.008	0.007	0.008	0.008	0.008#	2.92
24)	TP	Diisopropyl ether		0.414	0.451	0.451	0.471	0.480	0.500	0.482	0.464	6.10
25)	TP	1,1-Dichloroet		0.312	0.362	0.348	0.334	0.319	0.318	0.312	0.329	5.90
26)	TP	Halothane		0.113	0.127	0.120	0.123	0.119	0.130	0.131	0.123	5.24
27)	TP	Acrylonitrile		0.054	0.038	0.039	0.036	0.034	0.034	0.033	0.038	19.21
28)	TP	Ethyl tert-but		0.304	0.352	0.360	0.395	0.404	0.416	0.422	0.379	11.19
29)	TP	Vinyl acetate		0.193	0.172	0.177	0.189	0.180	0.177	0.185	0.182	4.08
30)	TP	cis-1,2-Dichlo		0.201	0.209	0.187	0.175	0.166	0.166	0.166	0.181#	9.96
31)	TP	2,2-Dichloropr		0.230	0.250	0.227	0.225	0.216	0.221	0.220	0.227	4.85
32)	TP	Bromochloromet		0.065	0.098	0.092	0.087	0.082	0.080	0.078	0.083#	12.94
33)	TP	Cyclohexane		0.267	0.250	0.240	0.298	0.304	0.345	0.337	0.292	14.03
34)	TC	Chloroform		0.303	0.350	0.286	0.275	0.265	0.273	0.271	0.289	10.25
35)	TP	Ethyl acetate		0.056	0.068	0.077	0.087	0.086	0.089	0.089	0.079	16.20
36)	TP	Carbon tetrachloride	0.220	0.190	0.214	0.212	0.231	0.225	0.244	0.242	0.222	7.89
37)	TP	Tetrahydrofuran			0.031	0.025	0.025	0.024	0.023	0.024	0.025	11.23
38)	S	Dibromofluoromethane	0.395	0.391	0.379	0.363	0.333	0.320	0.316	0.317	0.352	9.67
39)	TP	1,1,1-Trichlor		0.246	0.264	0.242	0.252	0.254	0.265	0.261	0.255	3.49
41)	TP	2-Butanone			0.034	0.035	0.038	0.038	0.040	0.040	0.037	6.57

Initial Calibration Summary
Form 6
Volatiles

Client	**: Alpha Geoscience**	**Lab Number**	**: L2410579**
Project Name	**: HUNTINGTON READY MIX**	**Project Number**	**: 20116**
Instrument ID	**: VOA122**	**Ical Ref**	**: ICAL20803**
Calibration dates	**: 01/22/24 22:47 01/23/24 22:06**		

Calibration Files
L11 =V22240122N03.D L1 =V22240123N03.D L2 =V22240122N07.D L3 =V22240122N08.D L4 =V22240122N09.D
L6 =V22240122N10.D L8 =V22240122N11.D L10 =V22240122N12.D

	Compound	L11	L1	L2	L3	L4	L6	L8	L10	Avg	%RSD
42) TP	1,1-Dichloropr		0.146	0.173	0.177	0.202	0.211	0.223	0.221	0.193	14.88
44) TP	Benzene	0.589	0.467	0.598	0.599	0.622	0.614	0.609	0.591	0.586	8.43
45) TP	Tertiary-Amyl Methyl Ether		0.223	0.232	0.231	0.245	0.251	0.261	0.262	0.244	6.36
46) S	1,2-Dichloroethane-d4	0.339	0.346	0.333	0.326	0.313	0.307	0.309	0.309	0.323	4.73
47) T	1,2-Dichloroet		0.158	0.165	0.162	0.157	0.159	0.158	0.156	0.159	1.92
50) TP	Methyl cyclohe		0.196	0.156	0.143	0.199	0.202	0.236	0.235	0.195	18.17
51) TP	Trichloroethene	0.133	0.130	0.120	0.126	0.140	0.145	0.149	0.146	0.136#	7.75
53) TP	Dibromomethane		0.073	0.076	0.070	0.070	0.067	0.067	0.066	0.070	5.24
54) TC	1,2-Dichloropr		0.104	0.122	0.131	0.143	0.142	0.142	0.142	0.132	11.15
56) TP	2-Chloroethyl		0.032	0.052	0.053	0.056	0.056	0.058	0.058	0.052	17.65
57) TP	Bromodichlorom		0.165	0.166	0.168	0.177	0.176	0.174	0.174	0.171#	2.77
60) TP	1,4-Dioxane		0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001#	6.72
61) TP	cis-1,3-Dichloropropene	0.162	0.135	0.168	0.179	0.195	0.198	0.198	0.197	0.179#	12.75
62) I	Chlorobenzene-d5	----------ISTD----------									
63) S	Toluene-d8	1.238	1.232	1.226	1.240	1.248	1.267	1.261	1.265	1.247	1.27
64) TC	Toluene		0.317	0.388	0.380	0.403	0.402	0.410	0.402	0.386	8.28
65) TP	4-Methyl-2-pen		0.021	0.033	0.029	0.030	0.030	0.031	0.030	0.029#	12.77
66) TP	Tetrachloroethene		0.134	0.145	0.148	0.170	0.174	0.188	0.186	0.164	13.11
68) TP	trans-1,3-Dichloropropene		0.132	0.150	0.170	0.201	0.211	0.215	0.213	0.184#	18.22
70) TP	Ethyl methacry		0.154	0.120	0.119	0.121	0.114	0.116	0.112	0.122	11.79
71) TP	1,1,2-Trichlor		0.079	0.067	0.080	0.093	0.099	0.103	0.100	0.089#	15.36
72) TP	Chlorodibromom		0.103	0.118	0.129	0.151	0.160	0.165	0.164	0.142#	17.42
73) TP	1,3-Dichloropr		0.119	0.142	0.157	0.185	0.192	0.198	0.196	0.170	18.14
74) TP	1,2-Dibromoethane		0.075	0.087	0.092	0.109	0.114	0.117	0.115	0.101#	16.10
76) TP	2-Hexanone		0.046	0.057	0.054	0.056	0.053	0.055	0.053	0.053	6.73
77) TP	Chlorobenzene		0.394	0.457	0.444	0.462	0.460	0.460	0.454	0.447	5.47
78) TC	Ethylbenzene		0.645	0.768	0.751	0.786	0.769	0.779	0.749	0.750	6.42
79) TP	1,1,1,2-Tetrac		0.114	0.133	0.138	0.157	0.167	0.173	0.173	0.151	15.30
80) TP	p/m Xylene		0.262	0.307	0.302	0.307	0.303	0.307	0.295	0.297	5.40
81) TP	o Xylene		0.252	0.297	0.294	0.298	0.291	0.293	0.282	0.287	5.64
82) TP	Styrene		0.410	0.478	0.483	0.489	0.474	0.465	0.432	0.462	6.35
83) I	1,4-Dichlorobenzene-d4	----------ISTD----------									
84) TP	Bromoform		0.114	0.126	0.132	0.154	0.158	0.166	0.166	0.145	14.34
86) TP	Isopropylbenzene		1.275	1.434	1.487	1.615	1.567	1.624	1.571	1.511	8.22
87) S	4-Bromofluorobenzene	0.895	0.906	0.913	0.935	0.930	0.919	0.925	0.932	0.919	1.52
88) TP	Bromobenzene		0.313	0.355	0.360	0.375	0.368	0.371	0.372	0.359	6.04

Initial Calibration Summary
Form 6
Volatiles

Client	**: Alpha Geoscience**	**Lab Number**	**: L2410579**
Project Name	**: HUNTINGTON READY MIX**	**Project Number**	**: 20116**
Instrument ID	**: VOA122**	**Ical Ref**	**: ICAL20803**
Calibration dates	**: 01/22/24 22:47 01/23/24 22:06**		

Calibration Files
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L6 =V22240122N10.D L8 =V22240122N11.D L10 =V22240122N12.D

	Compound	L11	L1	L2	L3	L4	L6	L8	L10	Avg	%RSD
89) TP	n-Propylbenzene		1.516	1.681	1.690	1.819	1.774	1.824	1.732	1.719	6.18
90) TP	1,4-Dichlorobu		0.319	0.344	0.349	0.371	0.360	0.368	0.370	0.354	5.33
91) TP	1,1,2,2-Tetrac		0.208	0.203	0.191	0.203	0.199	0.204	0.211	0.203	3.11
92) TP	4-Ethyltoluene		1.277	1.506	1.488	1.573	1.523	1.559	1.512	1.491	6.64
93) TP	2-Chlorotoluene		0.909	1.043	1.048	1.085	0.995	1.086	1.027	1.028	5.96
94) TP	1,3,5-Trimethy		1.011	1.230	1.261	1.350	1.306	1.314	1.283	1.251	9.00
95) TP	1,2,3-Trichlor		0.143	0.156	0.160	0.175	0.173	0.178	0.181	0.167	8.21
96) TP	trans-1,4-Dich		0.079	0.077	0.071	0.075	0.074	0.077	0.078	0.076	3.59
97) TP	4-Chlorotoluene		0.985	1.103	1.096	1.134	1.117	1.127	1.108	1.096	4.63
98) TP	tert-Butylbenzene		1.151	1.250	1.231	1.335	1.313	1.364	1.340	1.283	5.94
101) TP	1,2,4-Trimethy		1.113	1.372	1.423	1.522	1.477	1.468	1.426	1.400	9.66
102) TP	sec-Butylbenzene		1.348	1.468	1.424	1.614	1.561	1.642	1.563	1.517	7.06
103) TP	p-Isopropyltol		1.147	1.365	1.335	1.449	1.396	1.440	1.375	1.358	7.49
104) TP	1,3-Dichlorobe		0.662	0.715	0.728	0.744	0.728	0.729	0.719	0.718	3.64
105) TP	1,4-Dichlorobe		0.638	0.716	0.704	0.729	0.716	0.717	0.709	0.704	4.29
106) TP	p-Diethylbenzene		0.631	0.755	0.801	0.882	0.873	0.886	0.864	0.813	11.55
107) TP	n-Butylbenzene		0.817	0.983	1.030	1.159	1.121	1.159	1.114	1.055	11.72
108) TP	1,2-Dichlorobe		0.570	0.635	0.639	0.667	0.653	0.647	0.640	0.636	4.86
109) TP	1,2,4,5-Tetram		0.920	1.036	1.080	1.188	1.203	1.215	1.177	1.117	9.82
110) TP	1,2-Dibromo-3-		0.036	0.043	0.041	0.044	0.042	0.042	0.042	0.041	5.63
111) TP	1,3,5-Trichlor		0.364	0.403	0.424	0.457	0.453	0.454	0.442	0.428	8.05
112) TP	Hexachlorobuta		0.133	0.126	0.126	0.146	0.141	0.154	0.154	0.140	8.75
113) TP	1,2,4-Trichlor		0.348	0.368	0.373	0.395	0.384	0.385	0.379	0.376#	4.06
114) TP	Naphthalene		0.824	0.888	0.885	0.933	0.878	0.873	0.845	0.875	3.93
115) TP	1,2,3-Trichlor		0.290	0.317	0.329	0.348	0.329	0.331	0.321	0.324#	5.43

Response Factor Report VOA 122

Method Path : K:\VOA122\2024\240122NICAL\
Method File : V122_240122N_8260.m
Title : VOLATILES BY GC/MS
Last Update : Wed Jan 24 07:06:18 2024
Response Via : Initial Calibration

Calibration Files
L11 =V22240122N03.D L1 =V22240123N03.D L2 =V22240122N07.D L3 =V22240122N08.D L4 =V22240122N09.D
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		Compound	L11	L1	L2	L3	L4	L6	L8	L10	Avg	%RSD
1)	I	Fluorobenzene	----------	ISTD	----------							
2)	TP	Dichlorodifluo...		0.164	0.161	0.150	0.168	0.159	0.173	0.165	0.163	4.44
3)	TP	Chloromethane		0.262	0.295	0.265	0.250	0.236	0.234	0.224	0.252	9.50
4)	TC	Vinyl chloride	0.246	0.200	0.225	0.202	0.208	0.194	0.205	0.197	0.210	8.32
5)	TP	Bromomethane		0.152	0.153	0.132	0.119	0.109	0.110	0.108	0.126	15.57
6)	TP	Chloroethane		0.134	0.141	0.117	0.113	0.106	0.104	0.100	0.117	13.50
7)	TP	Trichlorofluor...		0.225	0.223	0.206	0.230	0.219	0.239	0.232	0.225	4.75
8)	TP	Ethyl ether		0.056	0.057	0.058	0.058	0.056	0.057	0.057	0.057	1.66
10)	TC	1,1-Dichloroet...		0.154	0.148	0.138	0.140	0.135	0.143	0.139	0.143	4.54
11)	TP	Carbon disulfide		0.485	0.512	0.475	0.458	0.426	0.445	0.430	0.462	6.76
12)	TP	Freon-113		0.131	0.124	0.116	0.133	0.126	0.149	0.148	0.132	9.14
13)	TP	Iodomethane		0.306	0.268	0.265	0.270	0.266	0.260	0.251	0.269	6.44
14)	TP	Acrolein			0.018	0.018	0.016	0.016	0.016	0.016	0.017	6.48
15)	TP	Methylene chlo...		0.202	0.218	0.183	0.167	0.157	0.154	0.152	0.176	14.70
17)	TP	Acetone			0.036	0.032	0.029	0.027	0.028	0.027	0.030	11.83
18)	TP	trans-1,2-Dich...		0.170	0.181	0.164	0.155	0.153	0.156	0.154	0.162	6.57
19)	TP	Methyl acetate		0.065	0.068	0.065	0.063	0.060	0.062	0.063	0.064	3.96
21)	TP	Methyl tert-bu...		0.206	0.227	0.250	0.270	0.269	0.278	0.283	0.255	11.27
22)	TP	tert-Butyl alc...			0.008	0.008	0.008	0.007	0.008	0.008	0.008#	2.92
24)	TP	Diisopropyl ether		0.414	0.451	0.451	0.471	0.480	0.500	0.482	0.464	6.10
25)	TP	1,1-Dichloroet...		0.312	0.362	0.348	0.334	0.319	0.318	0.312	0.329	5.90
26)	TP	Halothane		0.113	0.127	0.120	0.123	0.119	0.130	0.131	0.123	5.24
27)	TP	Acrylonitrile		0.054	0.038	0.039	0.036	0.034	0.034	0.033	0.038	19.21
28)	TP	Ethyl tert-but...		0.304	0.352	0.360	0.395	0.404	0.416	0.422	0.379	11.19
29)	TP	Vinyl acetate		0.193	0.172	0.177	0.189	0.180	0.177	0.185	0.182	4.08
30)	TP	cis-1,2-Dichlo...		0.201	0.209	0.187	0.175	0.166	0.166	0.166	0.181#	9.96
31)	TP	2,2-Dichloropr...		0.230	0.250	0.227	0.225	0.216	0.221	0.220	0.227	4.85
32)	TP	Bromochloromet...		0.065	0.098	0.092	0.087	0.082	0.080	0.078	0.083#	12.94
33)	TP	Cyclohexane		0.267	0.250	0.240	0.298	0.304	0.345	0.337	0.292	14.03
34)	TC	Chloroform		0.303	0.350	0.286	0.275	0.265	0.273	0.271	0.289	10.25
35)	TP	Ethyl acetate		0.056	0.068	0.077	0.087	0.086	0.089	0.089	0.079	16.20

Method Path : K:\VOA122\2024\240122NICAL\
Method File : V122_240122N_8260.m
Title : VOLATILES BY GC/MS
Last Update : Wed Jan 24 07:06:18 2024
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		Compound	L11	L1	L2	L3	L4	L6	L8	L10	Avg	%RSD
36)	TP	Carbon tetrach...	0.220	0.190	0.214	0.212	0.231	0.225	0.244	0.242	0.222	7.89
37)	TP	Tetrahydrofuran			0.031	0.025	0.025	0.024	0.023	0.024	0.025	11.23
38)	S	Dibromofluorom...	0.395	0.391	0.379	0.363	0.333	0.320	0.316	0.317	0.352	9.67
39)	TP	1,1,1-Trichlor...		0.246	0.264	0.242	0.252	0.254	0.265	0.261	0.255	3.49
41)	TP	2-Butanone			0.034	0.035	0.038	0.038	0.040	0.040	0.037	6.57
42)	TP	1,1-Dichloropr...		0.146	0.173	0.177	0.202	0.211	0.223	0.221	0.193	14.88
44)	TP	Benzene	0.589	0.467	0.598	0.599	0.622	0.614	0.609	0.591	0.586	8.43
45)	TP	tert-Amyl meth...		0.223	0.232	0.231	0.245	0.251	0.261	0.262	0.244	6.36
46)	S	1,2-Dichloroet...	0.339	0.346	0.333	0.326	0.313	0.307	0.309	0.309	0.323	4.73
47)	T	1,2-Dichloroet...		0.158	0.165	0.162	0.157	0.159	0.158	0.156	0.159	1.92
50)	TP	Methyl cyclohe...		0.196	0.156	0.143	0.199	0.202	0.236	0.235	0.195	18.17
51)	TP	Trichloroethene	0.133	0.130	0.120	0.126	0.140	0.145	0.149	0.146	0.136#	7.75
53)	TP	Dibromomethane		0.073	0.076	0.070	0.070	0.067	0.067	0.066	0.070	5.24
54)	TC	1,2-Dichloropr...		0.104	0.122	0.131	0.143	0.142	0.142	0.142	0.132	11.15
56)	TP	2-Chloroethyl ...		0.032	0.052	0.053	0.056	0.056	0.058	0.058	0.052	17.65
57)	TP	Bromodichlorom...		0.165	0.166	0.168	0.177	0.176	0.174	0.174	0.171#	2.77
60)	TP	1,4-Dioxane		0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001#	6.72
61)	TP	cis-1,3-Dichlo...	0.162	0.135	0.168	0.179	0.195	0.198	0.198	0.197	0.179#	12.75
62)	I	Chlorobenzene-d5	----------ISTD----------									
63)	S	Toluene-d8	1.238	1.232	1.226	1.240	1.248	1.267	1.261	1.265	1.247	1.27
64)	TC	Toluene		0.317	0.388	0.380	0.403	0.402	0.410	0.402	0.386	8.28
65)	TP	4-Methyl-2-pen...		0.021	0.033	0.029	0.030	0.030	0.031	0.030	0.029#	12.77
66)	TP	Tetrachloroethene		0.134	0.145	0.148	0.170	0.174	0.188	0.186	0.164	13.11
68)	TP	trans-1,3-Dich...		0.132	0.150	0.170	0.201	0.211	0.215	0.213	0.184#	18.22
70)	TP	Ethyl methacry...		0.154	0.120	0.119	0.121	0.114	0.116	0.112	0.122	11.79
71)	TP	1,1,2-Trichlor...		0.079	0.067	0.080	0.093	0.099	0.103	0.100	0.089#	15.36
72)	TP	Chlorodibromom...		0.103	0.118	0.129	0.151	0.160	0.165	0.164	0.142#	17.42
73)	TP	1,3-Dichloropr...		0.119	0.142	0.157	0.185	0.192	0.198	0.196	0.170	18.14
74)	TP	1,2-Dibromoethane		0.075	0.087	0.092	0.109	0.114	0.117	0.115	0.101#	16.10
76)	TP	2-Hexanone		0.046	0.057	0.054	0.056	0.053	0.055	0.053	0.053	6.73
77)	TP	Chlorobenzene		0.394	0.457	0.444	0.462	0.460	0.460	0.454	0.447	5.47

Response Factor Report VOA 122

Method Path : K:\VOA122\2024\240122NICAL\
Method File : V122_240122N_8260.m
Title : VOLATILES BY GC/MS
Last Update : Wed Jan 24 07:06:18 2024
Response Via : Initial Calibration

Calibration Files
L11 =V22240122N03.D L1 =V22240123N03.D L2 =V22240122N07.D L3 =V22240122N08.D L4 =V22240122N09.D
L6 =V22240122N10.D L8 =V22240122N11.D L10 =V22240122N12.D

		Compound		L11	L1	L2	L3	L4	L6	L8	L10	Avg	%RSD
78)	TC	Ethylbenzene		0.645	0.768	0.751	0.786	0.769	0.779	0.749	0.750	6.42	
79)	TP	1,1,1,2-Tetrac...		0.114	0.133	0.138	0.157	0.167	0.173	0.173	0.151	15.30	
80)	TP	p/m Xylene		0.262	0.307	0.302	0.307	0.303	0.307	0.295	0.297	5.40	
81)	TP	o Xylene		0.252	0.297	0.294	0.298	0.291	0.293	0.282	0.287	5.64	
82)	TP	Styrene		0.410	0.478	0.483	0.489	0.474	0.465	0.432	0.462	6.35	
83)	I	1,4-Dichlorobenzene-d4		----------ISTD----------									
84)	TP	Bromoform		0.114	0.126	0.132	0.154	0.158	0.166	0.166	0.145	14.34	
86)	TP	Isopropylbenzene		1.275	1.434	1.487	1.615	1.567	1.624	1.571	1.511	8.22	
87)	S	4-Bromofluorob...	0.895	0.906	0.913	0.935	0.930	0.919	0.925	0.932	0.919	1.52	
88)	TP	Bromobenzene		0.313	0.355	0.360	0.375	0.368	0.371	0.372	0.359	6.04	
89)	TP	n-Propylbenzene		1.516	1.681	1.690	1.819	1.774	1.824	1.732	1.719	6.18	
90)	TP	1,4-Dichlorobu...		0.319	0.344	0.349	0.371	0.360	0.368	0.370	0.354	5.33	
91)	TP	1,1,2,2-Tetrac...		0.208	0.203	0.191	0.203	0.199	0.204	0.211	0.203	3.11	
92)	TP	4-Ethyltoluene		1.277	1.506	1.488	1.573	1.523	1.559	1.512	1.491	6.64	
93)	TP	2-Chlorotoluene		0.909	1.043	1.048	1.085	0.995	1.086	1.027	1.028	5.96	
94)	TP	1,3,5-Trimethy...		1.011	1.230	1.261	1.350	1.306	1.314	1.283	1.251	9.00	
95)	TP	1,2,3-Trichlor...		0.143	0.156	0.160	0.175	0.173	0.178	0.181	0.167	8.21	
96)	TP	trans-1,4-Dich...		0.079	0.077	0.071	0.075	0.074	0.077	0.078	0.076	3.59	
97)	TP	4-Chlorotoluene		0.985	1.103	1.096	1.134	1.117	1.127	1.108	1.096	4.63	
98)	TP	tert-Butylbenzene		1.151	1.250	1.231	1.335	1.313	1.364	1.340	1.283	5.94	
101)	TP	1,2,4-Trimethy...		1.113	1.372	1.423	1.522	1.477	1.468	1.426	1.400	9.66	
102)	TP	sec-Butylbenzene		1.348	1.468	1.424	1.614	1.561	1.642	1.563	1.517	7.06	
103)	TP	p-Isopropyltol...		1.147	1.365	1.335	1.449	1.396	1.440	1.375	1.358	7.49	
104)	TP	1,3-Dichlorobe...		0.662	0.715	0.728	0.744	0.728	0.729	0.719	0.718	3.64	
105)	TP	1,4-Dichlorobe...		0.638	0.716	0.704	0.729	0.716	0.717	0.709	0.704	4.29	
106)	TP	p-Diethylbenzene		0.631	0.755	0.801	0.882	0.873	0.886	0.864	0.813	11.55	
107)	TP	n-Butylbenzene		0.817	0.983	1.030	1.159	1.121	1.159	1.114	1.055	11.72	
108)	TP	1,2-Dichlorobe...		0.570	0.635	0.639	0.667	0.653	0.647	0.640	0.636	4.86	
109)	TP	1,2,4,5-Tetram...		0.920	1.036	1.080	1.188	1.203	1.215	1.177	1.117	9.82	
110)	TP	1,2-Dibromo-3-...		0.036	0.043	0.041	0.044	0.042	0.042	0.042	0.041	5.63	
111)	TP	1,3,5-Trichlor...		0.364	0.403	0.424	0.457	0.453	0.454	0.442	0.428	8.05	

Method Path : K:\VOA122\2024\240122NICAL\
Method File : V122_240122N_8260.m
Title : VOLATILES BY GC/MS
Last Update : Wed Jan 24 07:06:18 2024
Response Via : Initial Calibration

Calibration Files
L11 =V22240122N03.D L1 =V22240123N03.D L2 =V22240122N07.D L3 =V22240122N08.D L4 =V22240122N09.D
L6 =V22240122N10.D L8 =V22240122N11.D L10 =V22240122N12.D

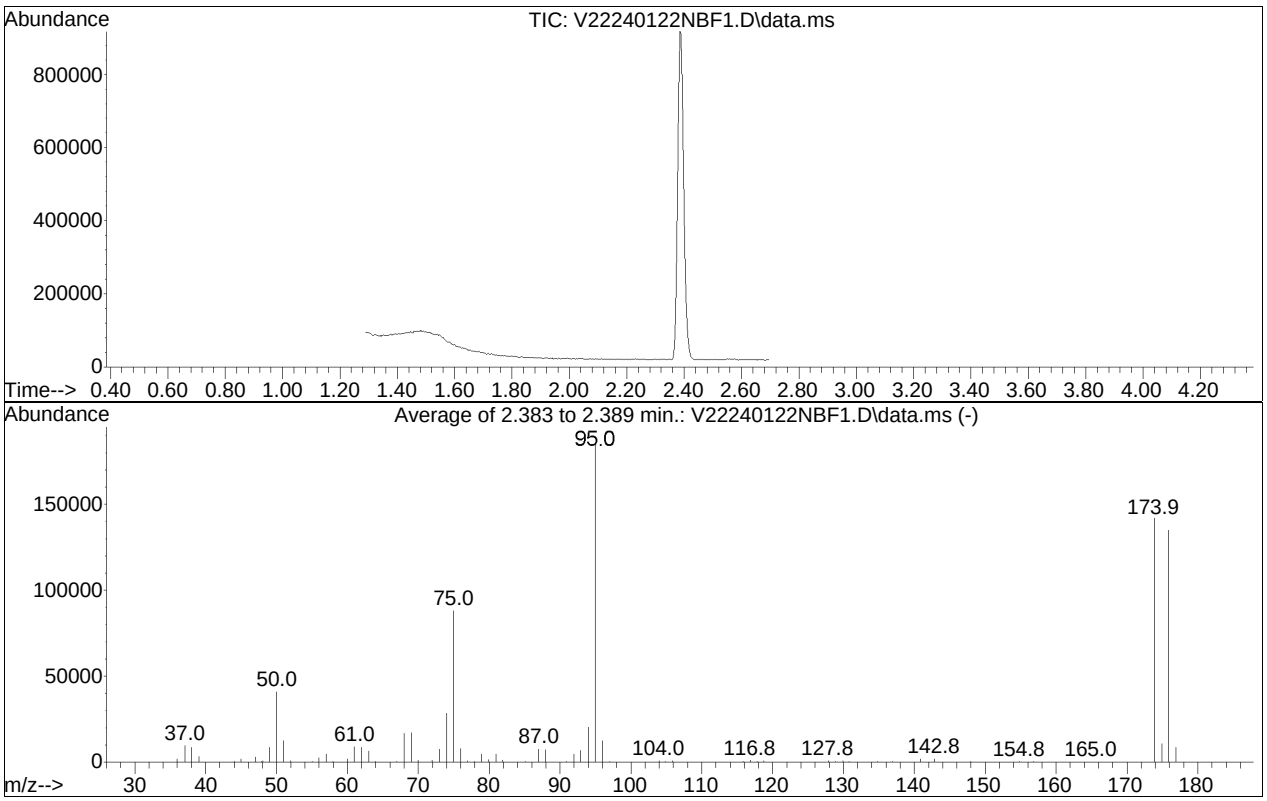
	Compound	L11	L1	L2	L3	L4	L6	L8	L10	Avg	%RSD
112)	TP Hexachlorobuta...	0.133	0.126	0.126	0.146	0.141	0.154	0.154	0.140		8.75
113)	TP 1,2,4-Trichlor...	0.348	0.368	0.373	0.395	0.384	0.385	0.379	0.376#		4.06
114)	TP Naphthalene	0.824	0.888	0.885	0.933	0.878	0.873	0.845	0.875		3.93
115)	TP 1,2,3-Trichlor...	0.290	0.317	0.329	0.348	0.329	0.331	0.321	0.324#		5.43

(#) = Out of Range

Data Path : K:\VOA122\2024\240122NICAL\
Data File : V22240122NBF1.D
Acq On : 22 Jan 2024 09:40 pm
Operator : VOA122:RAW
Sample : WG1877676-1
Misc : WG1877676
ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : K:\VOA122\2024\240122NICAL\V122_240122N_8260.m
Title : VOLATILES BY GC/MS
Last Update : Wed Jan 24 07:06:18 2024



AutoFind: Scans 393, 394, 395; Background Corrected with Scan 380

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	22.0	40928	PASS
75	95	30	60	47.4	88117	PASS
95	95	100	100	100.0	185837	PASS
96	95	5	9	6.7	12505	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	76.3	141741	PASS
175	174	5	9	7.5	10693	PASS
176	174	95	101	95.3	135085	PASS
177	176	5	9	6.3	8567	PASS

Quantitation Report (QT Reviewed)

Data Path : K:\VOA122\2024\240122NICAL\
Data File : V22240122N03.D
Acq On : 22 Jan 2024 10:47 pm
Operator : VOA122:PID
Sample : I8260STD0.19PPB
Misc : WG1877676,ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jan 24 06:57:58 2024
Quant Method : K:\VOA122\2024\240122NICAL\V122_240122N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jan 24 06:57:01 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA122\2024\240122NICAL\V22240122N08.D
Sub List : 8260-L11_MCP - L11 MCP

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	5.996	96	576272	10.000	ug/L	0.00
Standard Area 1 = 652291			Recovery =	88.35%		
62) Chlorobenzene-d5	9.540	117	538009	10.000	ug/L	0.00
Standard Area 1 = 565944			Recovery =	95.06%		
83) 1,4-Dichlorobenzene-d4	12.251	152	283159	10.000	ug/L	0.00
Standard Area 1 = 285544			Recovery =	99.16%		
System Monitoring Compounds						
38) Dibromofluoromethane	5.177	113	227550	11.227	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	112.27%		
46) 1,2-Dichloroethane-d4	5.708	65	195477	10.504	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	105.04%		
63) Toluene-d8	7.696	98	665900	9.924	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	99.24%		
87) 4-Bromofluorobenzene	11.034	95	253524	9.739	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	97.39%		
Target Compounds						Qvalue
4) Vinyl chloride	1.900	62	2690	0.223	ug/L	96
36) Carbon tetrachloride	5.145	117	2412	0.188	ug/L #	87
44) Benzene	5.577	78	6446	0.191	ug/L #	76
51) Trichloroethene	6.167	95	1460	0.186	ug/L #	80
61) cis-1,3-Dichloropropene	7.473	75	1771	0.172	ug/L #	65
68) trans-1,3-Dichloropropene	8.231	75	1265	0.133	ug/L #	48

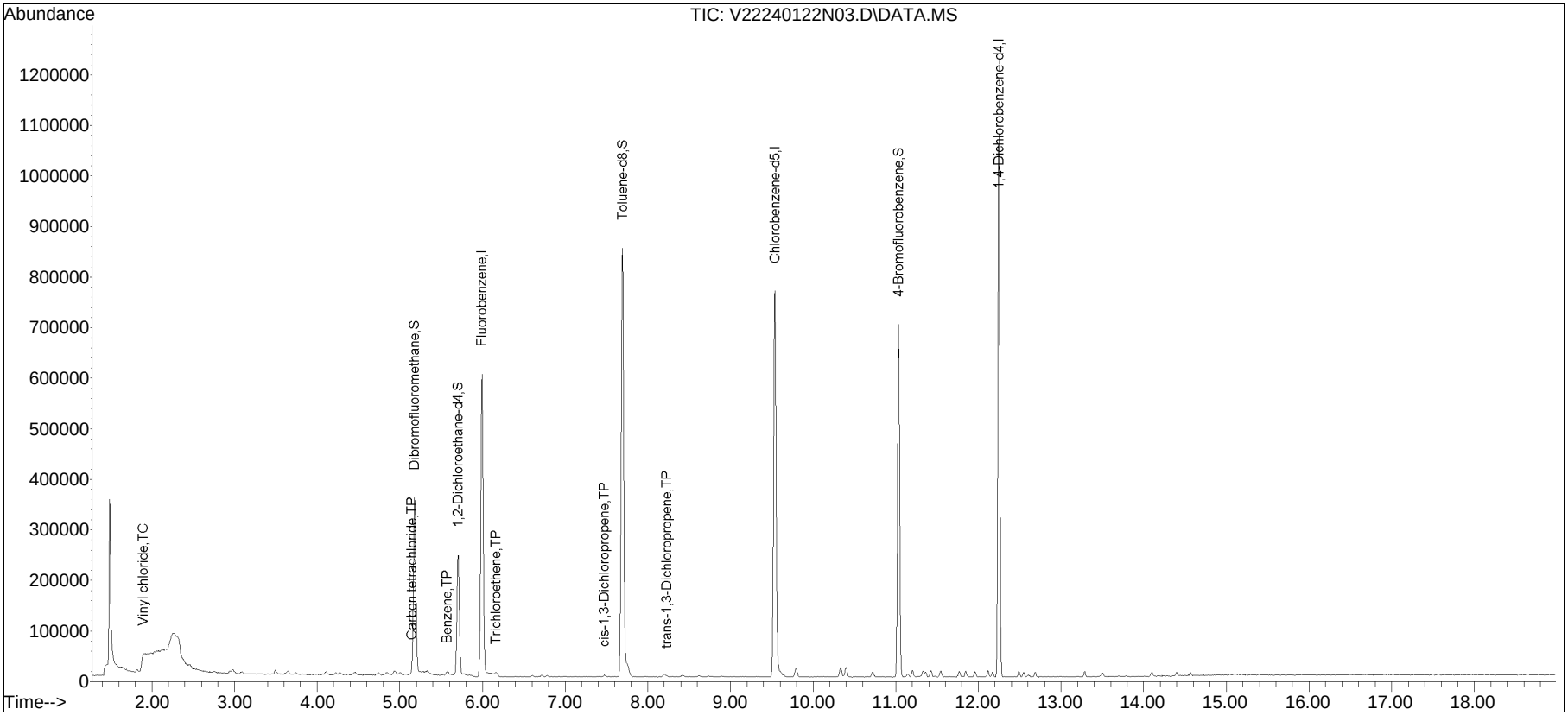
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : K:\VOA122\2024\240122NICAL\
Data File : V22240122N03.D
Acq On : 22 Jan 2024 10:47 pm
Operator : VOA122:PID
Sample : I8260STD0.19PPB
Misc : WG1877676,ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jan 24 06:57:58 2024
Quant Method : K:\VOA122\2024\240122NICAL\V122_240122N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jan 24 06:57:01 2024
Response via : Initial Calibration

Sub List : 8260-L11_MCP - L11 MCP122NICAL\V22240122N08.D•



Manual Integration Report

Data Path	: K:\VOA122\2024\240122NICALQ	Method	: V122_240122N_8260.m
Data File	: V22240122N03.D	Operator	: VOA122:PID
Date Inj'd	: 1/22/2024 10:47 pm	Instrument	: VOA 122
Sample	: I8260STD0.19PPB	Quant Date	: 1/24/2024 6:57 am

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

Quantitation Report (QT Reviewed)

Data Path : K:\VOA122\2024\240122NICAL\
Data File : V22240122N07.D
Acq On : 23 Jan 2024 12:24 am
Operator : VOA122:PID
Sample : I8260STD2PPB
Misc : WG1877676,ICAL
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jan 24 06:58:08 2024
Quant Method : K:\VOA122\2024\240122NICAL\V122_240122N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jan 24 06:57:01 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA122\2024\240122NICAL\V22240122N08.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	5.996	96	601547	10.000	ug/L	0.00
Standard Area 1 = 652291			Recovery =	92.22%		
62) Chlorobenzene-d5	9.540	117	546863	10.000	ug/L	0.00
Standard Area 1 = 565944			Recovery =	96.63%		
83) 1,4-Dichlorobenzene-d4	12.250	152	284531	10.000	ug/L	0.00
Standard Area 1 = 285544			Recovery =	99.65%		
System Monitoring Compounds						
38) Dibromofluoromethane	5.177	113	228027	10.778	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	107.78%		
46) 1,2-Dichloroethane-d4	5.708	65	200158	10.304	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	103.04%		
63) Toluene-d8	7.696	98	670375	9.829	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	98.29%		
87) 4-Bromofluorobenzene	11.034	95	259738	9.930	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	99.30%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.632	85	19400	1.979	ug/L #	95
3) Chloromethane	1.822	50	35508	2.339	ug/L	98
4) Vinyl chloride	1.894	62	27090	2.149	ug/L	97
5) Bromomethane	2.208	94	18410	2.424	ug/L	91
6) Chloroethane	2.320	64	17012	2.425	ug/L	80
7) Trichlorofluoromethane	2.464	101	26833	1.986	ug/L	96
8) Ethyl ether	2.759	74	6841	2.002	ug/L #	1
10) 1,1-Dichloroethene	2.949	96	17786	2.074	ug/L #	73
11) Carbon disulfide	2.975	76	61623	2.220	ug/L	99
12) Freon-113	2.988	101	14924	1.875	ug/L	96
13) Iodomethane	3.087	142	32234	1.989	ug/L	95
14) Acrolein	3.257	56	2150	2.164	ug/L #	83
15) Methylene chloride	3.493	84	26246	2.479	ug/L #	73
17) Acetone	3.526	43	4345M3	2.040	ug/L	
18) trans-1,2-Dichloroethene	3.644	96	21821	2.240	ug/L	84
19) Methyl acetate	3.650	43	8167	2.131	ug/L #	87
21) Methyl tert-butyl ether	3.742	73	27339	1.785	ug/L #	79
22) tert-Butyl alcohol	3.821	59	4891	10.355	ug/L	90
24) Diisopropyl ether	4.103	45	54247	1.943	ug/L	93
25) 1,1-Dichloroethane	4.227	63	43533	2.197	ug/L	99
26) Halothane	4.273	117	15240	2.057	ug/L	97

Data Path : K:\VOA122\2024\240122NICAL\
Data File : V22240122N07.D
Acq On : 23 Jan 2024 12:24 am
Operator : VOA122:PID
Sample : I8260STD2PPB
Misc : WG1877676,ICAL
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jan 24 06:58:08 2024
Quant Method : K:\VOA122\2024\240122NICAL\V122_240122N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jan 24 06:57:01 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA122\2024\240122NICAL\V22240122N08.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
27) Acrylonitrile	4.260	53	4624M6	2.003	ug/L		
28) Ethyl tert-butyl ether	4.456	59	42314	1.857	ug/L		86
29) Vinyl acetate	4.463	43	20709	1.893	ug/L	#	86
30) cis-1,2-Dichloroethene	4.738	96	25196	2.311	ug/L	#	84
31) 2,2-Dichloropropane	4.843	77	30026	2.198	ug/L		84
32) Bromochloromethane	4.928	128	11840	2.369	ug/L	#	73
33) Cyclohexane	4.941	56	30072	1.714	ug/L		77
34) Chloroform	5.000	83	42108	2.421	ug/L		92
35) Ethyl acetate	5.118	43	8192M6	1.729	ug/L		
36) Carbon tetrachloride	5.145	117	25799	1.931	ug/L	#	93
37) Tetrahydrofuran	5.158	42	3728	2.455	ug/L		90
39) 1,1,1-Trichloroethane	5.210	97	31795	2.075	ug/L		94
41) 2-Butanone	5.289	43	4063M6	1.811	ug/L		
42) 1,1-Dichloropropene	5.328	75	20769	1.786	ug/L		99
44) Benzene	5.577	78	71950	2.041	ug/L	#	92
45) tert-Amyl methyl ether	5.695	73	27857	1.901	ug/L	#	90
47) 1,2-Dichloroethane	5.774	62	19832	2.070	ug/L		98
50) Methyl cyclohexane	6.173	83	18767	1.598	ug/L	#	69
51) Trichloroethene	6.167	95	14461	1.765	ug/L		98
53) Dibromomethane	6.605	93	9182	2.180	ug/L	#	80
54) 1,2-Dichloropropane	6.716	63	14709	1.848	ug/L		95
56) 2-Chloroethyl vinyl ether	7.411	63	6297	2.001	ug/L	#	84
57) Bromodichloromethane	6.785	83	19972	1.937	ug/L		96
60) 1,4-Dioxane	6.994	88	21170	437.163	ug/L	#	59
61) cis-1,3-Dichloropropene	7.480	75	20172	1.873	ug/L	#	83
64) Toluene	7.751	92	42420	2.009	ug/L		98
65) 4-Methyl-2-pentanone	8.182	58	3651	2.267	ug/L	#	94
66) Tetrachloroethene	8.196	166	15829	1.769	ug/L		92
68) trans-1,3-Dichloropropene	8.224	75	16386	1.694	ug/L		83
70) Ethyl methacrylate	8.426	69	13078	1.956	ug/L		89
71) 1,1,2-Trichloroethane	8.412	83	7285	1.504	ug/L	#	79
72) Chlorodibromomethane	8.628	129	12922	1.669	ug/L		96
73) 1,3-Dichloropropane	8.740	76	15565	1.674	ug/L		100
74) 1,2-Dibromoethane	8.902	107	9567	1.724	ug/L		95
76) 2-Hexanone	9.196	43	6222	2.142	ug/L	#	96
77) Chlorobenzene	9.561	112	50024	2.045	ug/L		94
78) Ethylbenzene	9.603	91	84044	2.050	ug/L		100
79) 1,1,1,2-Tetrachloroethane	9.645	131	14561	1.766	ug/L		96
80) p/m Xylene	9.792	106	67070	4.124	ug/L		100
81) o Xylene	10.332	106	64881	4.141	ug/L		98

Quantitation Report (QT Reviewed)

Data Path : K:\VOA122\2024\240122NICAL\
Data File : V22240122N07.D
Acq On : 23 Jan 2024 12:24 am
Operator : VOA122:PID
Sample : I8260STD2PPB
Misc : WG1877676,ICAL
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jan 24 06:58:08 2024
Quant Method : K:\VOA122\2024\240122NICAL\V122_240122N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jan 24 06:57:01 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA122\2024\240122NICAL\V22240122N08.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
82) Styrene	10.395	104	104558	4.142	ug/L		97
84) Bromoform	10.409	173	7158	1.731	ug/L		94
86) Isopropylbenzene	10.718	105	81597	1.899	ug/L		100
88) Bromobenzene	11.146	156	20223	1.979	ug/L		99
89) n-Propylbenzene	11.202	91	95655	1.955	ug/L		100
90) 1,4-Dichlorobutane	11.209	55	19552	1.939	ug/L		94
91) 1,1,2,2-Tetrachloroethane	11.279	83	11557	2.003	ug/L		96
92) 4-Ethyltoluene	11.328	105	85679	2.020	ug/L		99
93) 2-Chlorotoluene	11.363	91	59378M6	2.031	ug/L		
94) 1,3,5-Trimethylbenzene	11.426	105	69972	1.966	ug/L		100
95) 1,2,3-Trichloropropane	11.419	75	8893	1.876	ug/L		99
96) trans-1,4-Dichloro-2-b...	11.468	53	4379	2.020	ug/L	#	67
97) 4-Chlorotoluene	11.546	91	62760	2.013	ug/L		100
98) tert-Butylbenzene	11.770	119	71148	1.948	ug/L		100
101) 1,2,4-Trimethylbenzene	11.847	105	78078	1.960	ug/L		90
102) sec-Butylbenzene	11.958	105	83526	1.935	ug/L		99
103) p-Isopropyltoluene	12.118	119	77657	2.010	ug/L		98
104) 1,3-Dichlorobenzene	12.167	146	40709	1.992	ug/L		97
105) 1,4-Dichlorobenzene	12.264	146	40734M3	2.033	ug/L		
106) p-Diethylbenzene	12.494	119	42953	1.856	ug/L		100
107) n-Butylbenzene	12.550	91	55928	1.864	ug/L		98
108) 1,2-Dichlorobenzene	12.689	146	36145	1.998	ug/L		96
109) 1,2,4,5-Tetramethylben...	13.288	119	58981	1.856	ug/L		99
110) 1,2-Dibromo-3-chloropr...	13.469	155	2431	2.067	ug/L		100
111) 1,3,5-Trichlorobenzene	13.503	180	22910	1.881	ug/L		96
112) Hexachlorobutadiene	14.088	225	7179	1.802	ug/L		95
113) 1,2,4-Trichlorobenzene	14.102	180	20956	1.959	ug/L	#	95
114) Naphthalene	14.401	128	50546	2.030	ug/L		100
115) 1,2,3-Trichlorobenzene	14.568	180	18043	1.960	ug/L	#	94

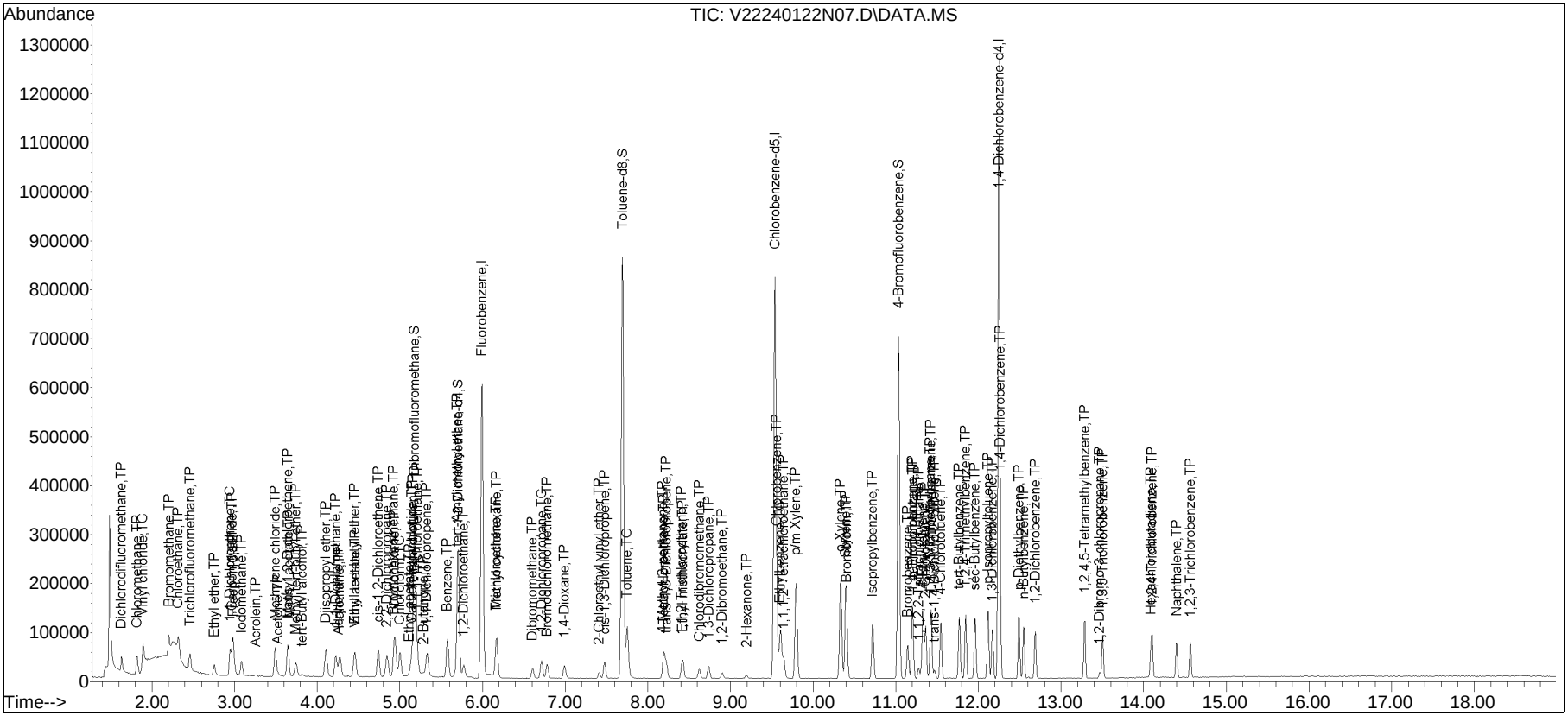
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : K:\VOA122\2024\240122NICAL\
Data File : V22240122N07.D
Acq On : 23 Jan 2024 12:24 am
Operator : VOA122:PID
Sample : I8260STD2PPB
Misc : WG1877676,ICAL
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jan 24 06:58:08 2024
Quant Method : K:\VOA122\2024\240122NICAL\V122_240122N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jan 24 06:57:01 2024
Response via : Initial Calibration

Sub List : 8260-Curve - Megamix plus Diox\V22240122N08.D•

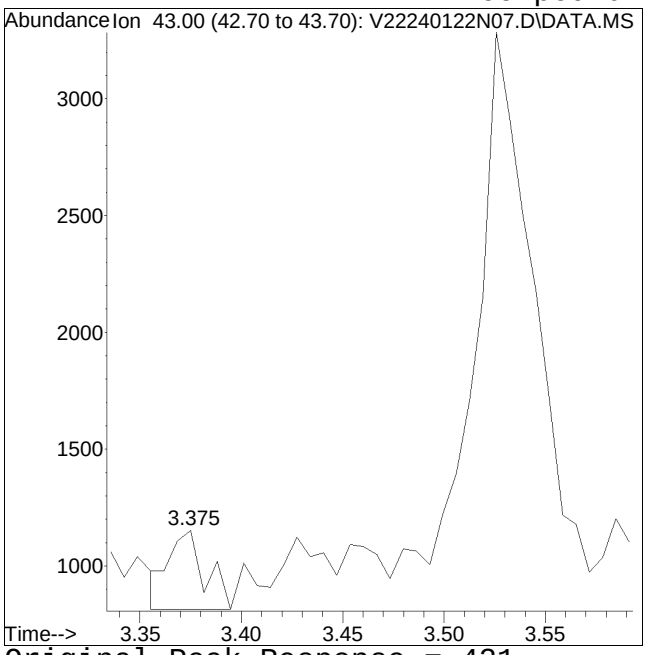


Manual Integration Report

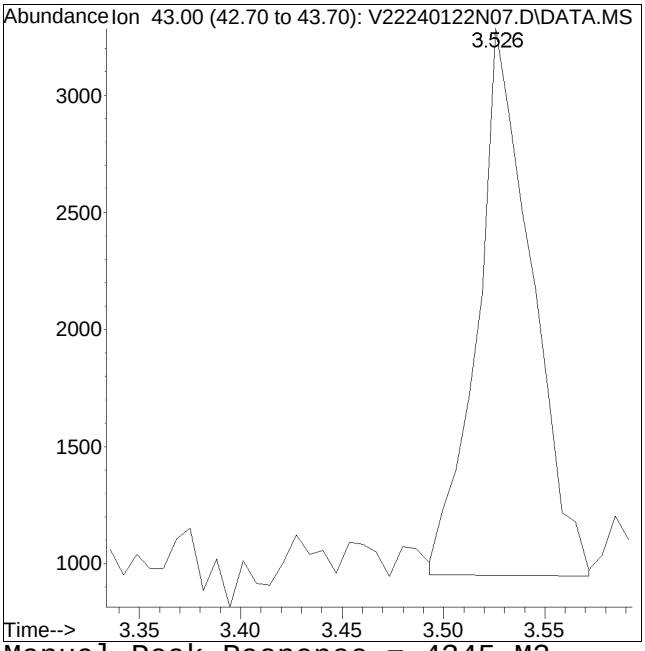
Data Path : K:\VOA122\2024\240122NICALQ
Data File : V22240122N07.D
Date Inj'd : 1/23/2024 12:24 am
Sample : I8260STD2PPB

Method : V122_240122N_8260.m
Operator : VOA122:PID
Instrument : VOA 122
Quant Date : 1/24/2024 6:58 am

Compound #17: Acetone



Original Peak Response = 421



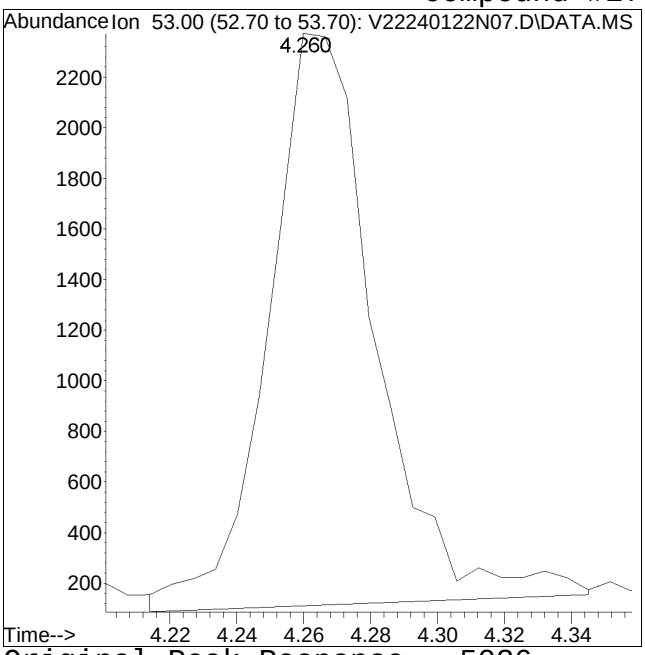
Manual Peak Response = 4345 M3

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

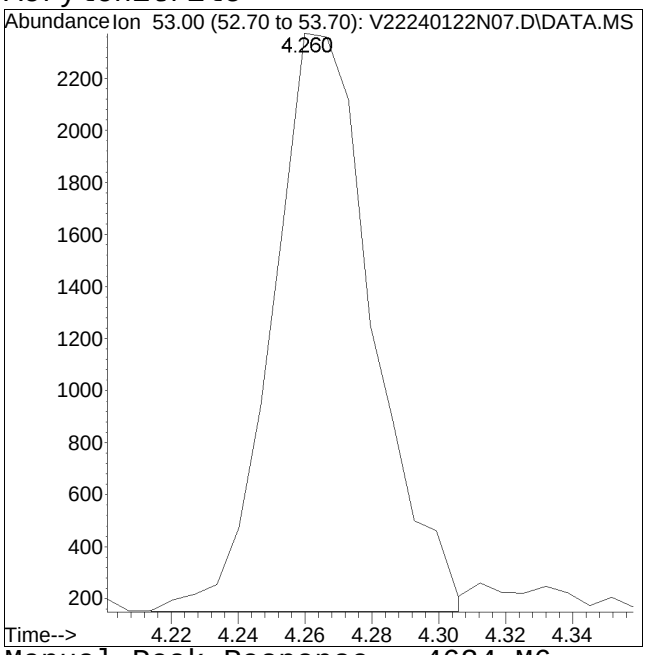
Manual Integration Report

Data Path : K:\VOA122\2024\240122NICALQMethod : V122_240122N_8260.m
Data File : V22240122N07.D Operator : VOA122:PID
Date Inj'd : 1/23/2024 12:24 am Instrument : VOA 122
Sample : I8260STD2PPB Quant Date : 1/24/2024 6:58 am

Compound #27: Acrylonitrile



Original Peak Response = 5036



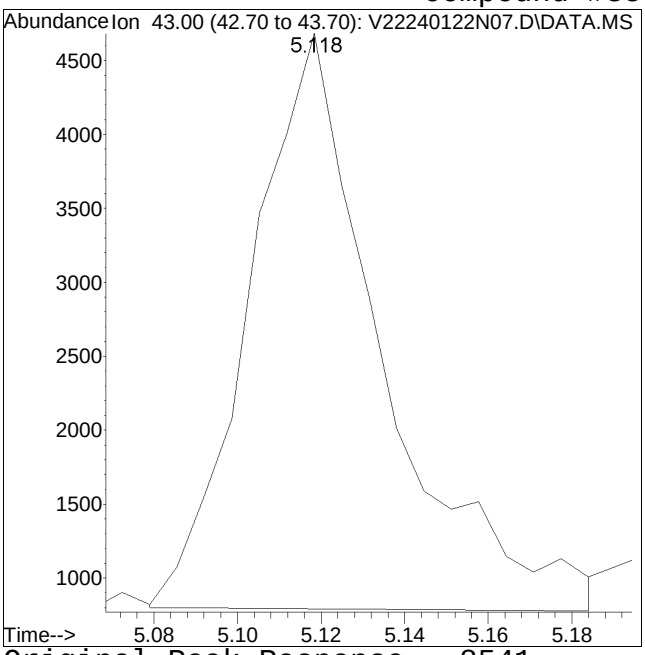
Manual Peak Response = 4624 M6

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

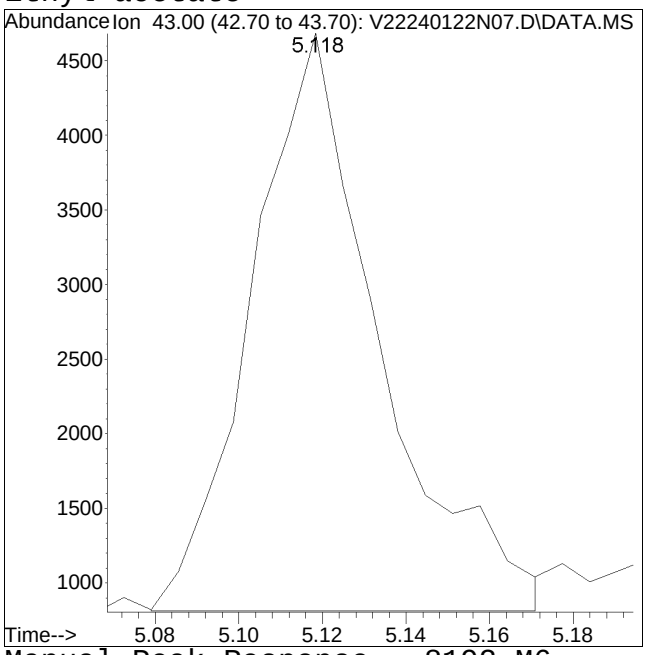
Manual Integration Report

Data Path : K:\VOA122\2024\240122NICALQMethod : V122_240122N_8260.m
Data File : V22240122N07.D Operator : VOA122:PID
Date Inj'd : 1/23/2024 12:24 am Instrument : VOA 122
Sample : I8260STD2PPB Quant Date : 1/24/2024 6:58 am

Compound #35: Ethyl acetate



Original Peak Response = 8541



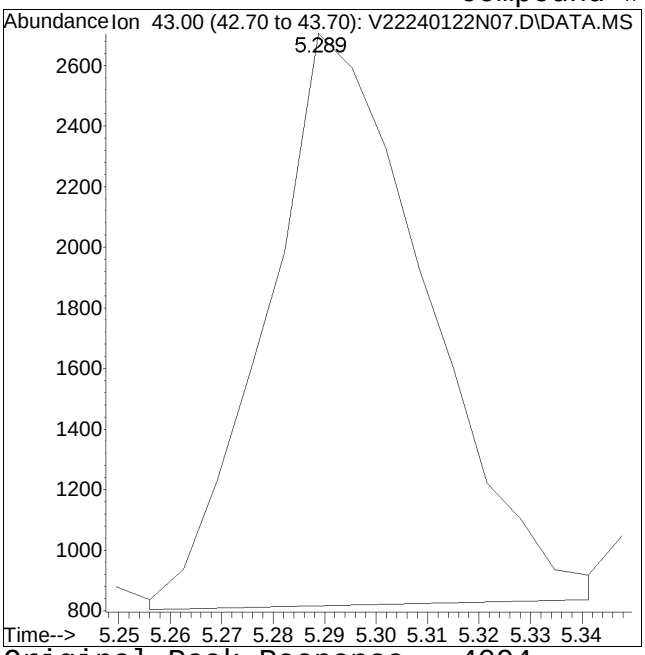
Manual Peak Response = 8192 M6

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

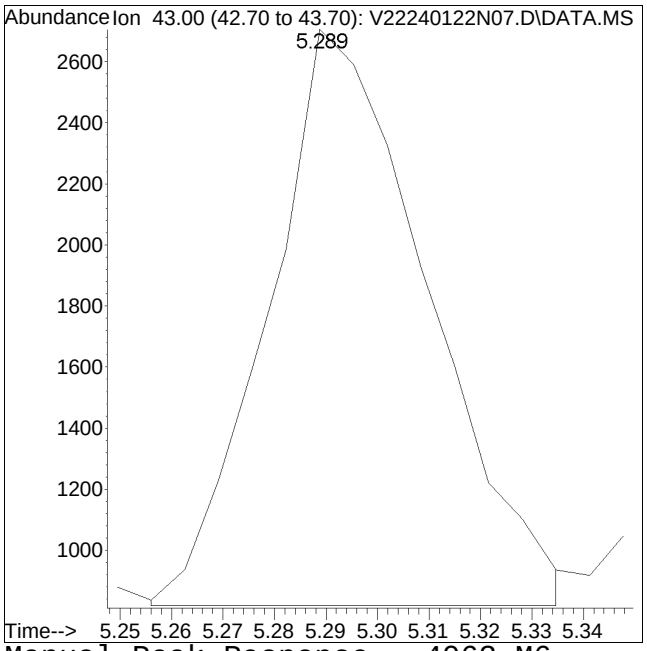
Manual Integration Report

Data Path : K:\VOA122\2024\240122NICALQMethod : V122_240122N_8260.m
Data File : V22240122N07.D Operator : VOA122:PID
Date Inj'd : 1/23/2024 12:24 am Instrument : VOA 122
Sample : I8260STD2PPB Quant Date : 1/24/2024 6:58 am

Compound #41: 2-Butanone



Original Peak Response = 4094



Manual Peak Response = 4063 M6

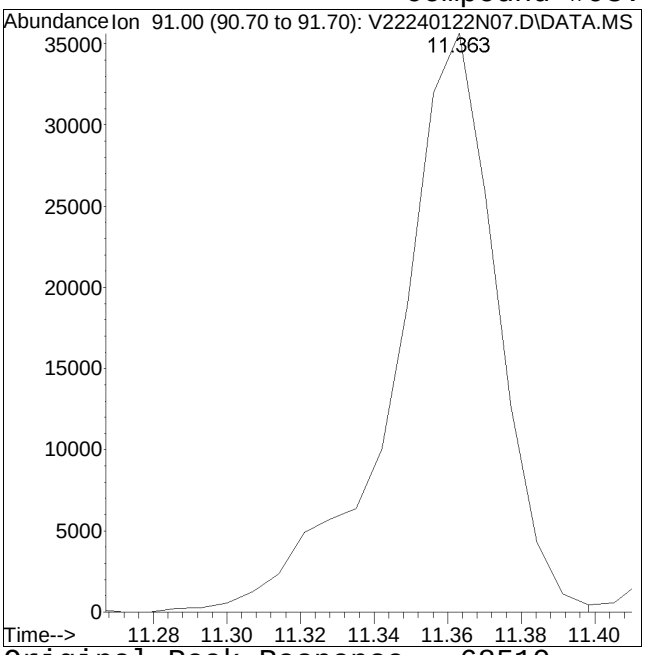
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

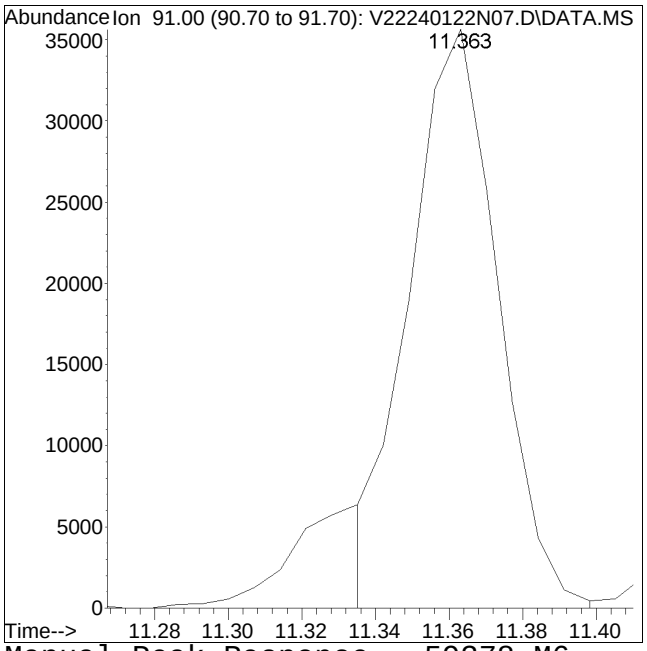
Data Path : K:\VOA122\2024\240122NICALQ
Data File : V22240122N07.D
Date Inj'd : 1/23/2024 12:24 am
Sample : I8260STD2PPB

Method : V122_240122N_8260.m
Operator : VOA122:PID
Instrument : VOA 122
Quant Date : 1/24/2024 6:58 am

Compound #93: 2-Chlorotoluene



Original Peak Response = 68510



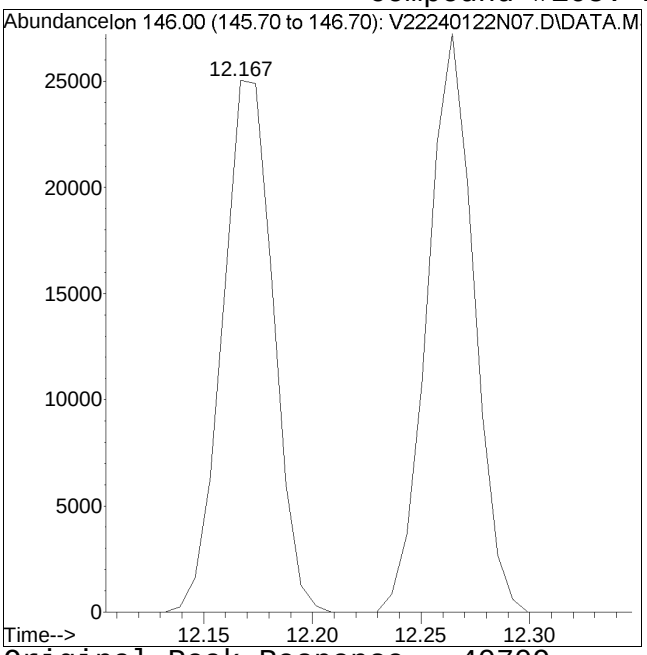
Manual Peak Response = 59378 M6

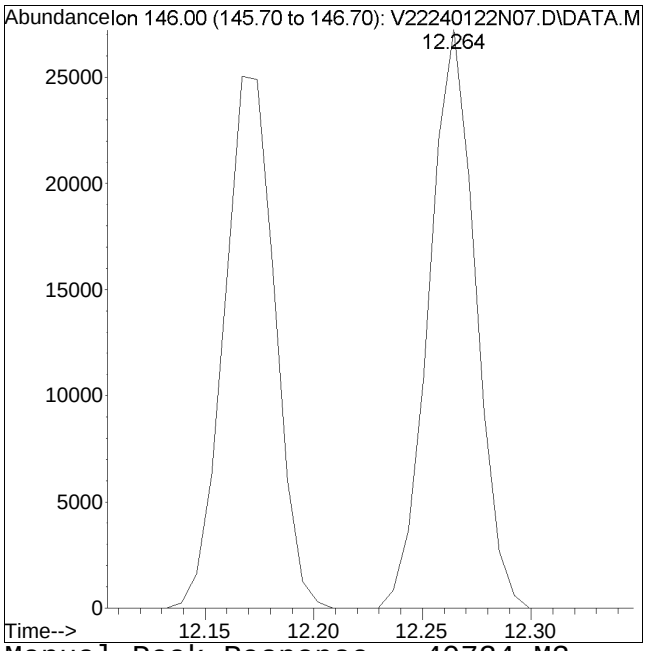
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

Data Path : K:\VOA122\2024\240122NICALQMethod : V122_240122N_8260.m
Data File : V22240122N07.D Operator : VOA122:PID
Date Inj'd : 1/23/2024 12:24 am Instrument : VOA 122
Sample : I8260STD2PPB Quant Date : 1/24/2024 6:58 am

Compound #105: 1,4-Dichlorobenzene





Original Peak Response = 40709 Manual Peak Response = 40734 M3

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

Quantitation Report (QT Reviewed)

Data Path : K:\VOA122\2024\240122NICAL\
Data File : V22240122N08.D
Acq On : 23 Jan 2024 12:48 am
Operator : VOA122:PID
Sample : I8260STD10PPB
Misc : WG1877676,ICAL
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jan 24 06:58:18 2024
Quant Method : K:\VOA122\2024\240122NICAL\V122_240122N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jan 24 06:57:01 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA122\2024\240122NICAL\V22240122N08.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	5.996	96	652291	10.000	ug/L	0.00
Standard Area 1 = 652291			Recovery = 100.00%			
62) Chlorobenzene-d5	9.540	117	565944	10.000	ug/L	0.00
Standard Area 1 = 565944			Recovery = 100.00%			
83) 1,4-Dichlorobenzene-d4	12.250	152	285544	10.000	ug/L	0.00
Standard Area 1 = 285544			Recovery = 100.00%			
System Monitoring Compounds						
38) Dibromofluoromethane	5.177	113	236889	10.326	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 103.26%			
46) 1,2-Dichloroethane-d4	5.708	65	212941	10.109	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 101.09%			
63) Toluene-d8	7.696	98	701966	9.945	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.45%			
87) 4-Bromofluorobenzene	11.033	95	266995	10.171	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 101.71%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.631	85	98151	9.231	ug/L #	96
3) Chloromethane	1.821	50	172724	10.491	ug/L	99
4) Vinyl chloride	1.894	62	131735	9.636	ug/L	99
5) Bromomethane	2.208	94	86291	10.480	ug/L	99
6) Chloroethane	2.320	64	76467	10.051	ug/L	98
7) Trichlorofluoromethane	2.464	101	134108	9.154	ug/L	100
8) Ethyl ether	2.759	74	37856	10.215	ug/L #	1
10) 1,1-Dichloroethene	2.949	96	90166	9.696	ug/L #	76
11) Carbon disulfide	2.975	76	309692	10.287	ug/L	100
12) Freon-113	2.988	101	75692	8.770	ug/L	95
13) Iodomethane	3.086	142	173029	9.848	ug/L	95
14) Acrolein	3.257	56	11660	10.824	ug/L	98
15) Methylene chloride	3.493	84	119192	10.382	ug/L #	70
17) Acetone	3.526	43	20622	8.931	ug/L	100
18) trans-1,2-Dichloroethene	3.644	96	106707	10.103	ug/L	83
19) Methyl acetate	3.650	43	42487	10.224	ug/L #	90
21) Methyl tert-butyl ether	3.742	73	163006	9.816	ug/L #	84
22) tert-Butyl alcohol	3.814	59	25492	49.771	ug/L	98
24) Diisopropyl ether	4.109	45	294182	9.716	ug/L	93
25) 1,1-Dichloroethane	4.227	63	227312	10.581	ug/L	96
26) Halothane	4.273	117	78210	9.737	ug/L	98

Data Path : K:\VOA122\2024\240122NICAL\
Data File : V22240122N08.D
Acq On : 23 Jan 2024 12:48 am
Operator : VOA122:PID
Sample : I8260STD10PPB
Misc : WG1877676,ICAL
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jan 24 06:58:18 2024
Quant Method : K:\VOA122\2024\240122NICAL\V122_240122N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jan 24 06:57:01 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA122\2024\240122NICAL\V22240122N08.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
27) Acrylonitrile	4.266	53	25359	10.131	ug/L		100
28) Ethyl tert-butyl ether	4.456	59	234595	9.496	ug/L		87
29) Vinyl acetate	4.456	43	115663	9.749	ug/L	#	89
30) cis-1,2-Dichloroethene	4.738	96	121664	10.291	ug/L	#	81
31) 2,2-Dichloropropane	4.849	77	148331	10.014	ug/L		85
32) Bromochloromethane	4.935	128	59962	11.064	ug/L	#	78
33) Cyclohexane	4.948	56	156769	8.239	ug/L		71
34) Chloroform	5.000	83	186804	9.905	ug/L	#	94
35) Ethyl acetate	5.112	43	50511	9.831	ug/L	#	93
36) Carbon tetrachloride	5.144	117	138140	9.535	ug/L		99
37) Tetrahydrofuran	5.151	42	16381M6	9.946	ug/L		
39) 1,1,1-Trichloroethane	5.210	97	158054	9.511	ug/L		95
41) 2-Butanone	5.295	43	22849	9.392	ug/L	#	49
42) 1,1-Dichloropropene	5.328	75	115203	9.137	ug/L		99
44) Benzene	5.577	78	390654	10.220	ug/L	#	93
45) tert-Amyl methyl ether	5.695	73	150596	9.479	ug/L		93
47) 1,2-Dichloroethane	5.774	62	105616	10.169	ug/L		98
50) Methyl cyclohexane	6.167	83	93365	7.332	ug/L	#	70
51) Trichloroethene	6.173	95	81946	9.224	ug/L		99
53) Dibromomethane	6.604	93	45882	10.044	ug/L	#	83
54) 1,2-Dichloropropane	6.716	63	85615	9.918	ug/L		96
56) 2-Chloroethyl vinyl ether	7.411	63	34788	10.193	ug/L	#	85
57) Bromodichloromethane	6.785	83	109693	9.812	ug/L		96
60) 1,4-Dioxane	6.994	88	26996	514.102	ug/L	#	61
61) cis-1,3-Dichloropropene	7.480	75	116962	10.016	ug/L	#	85
64) Toluene	7.751	92	215193	9.849	ug/L		97
65) 4-Methyl-2-pentanone	8.182	58	16574	9.946	ug/L	#	83
66) Tetrachloroethene	8.196	166	83920	9.063	ug/L		94
68) trans-1,3-Dichloropropene	8.224	75	96273	9.616	ug/L		86
70) Ethyl methacrylate	8.425	69	67321	9.731	ug/L		98
71) 1,1,2-Trichloroethane	8.412	83	45230	9.023	ug/L		99
72) Chlorodibromomethane	8.621	129	73188	9.135	ug/L		99
73) 1,3-Dichloropropane	8.740	76	89026	9.253	ug/L		98
74) 1,2-Dibromoethane	8.902	107	52299	9.105	ug/L		96
76) 2-Hexanone	9.196	43	30308	10.084	ug/L		95
77) Chlorobenzene	9.561	112	251472	9.932	ug/L		90
78) Ethylbenzene	9.610	91	425203	10.022	ug/L		99
79) 1,1,1,2-Tetrachloroethane	9.645	131	78005	9.144	ug/L		97
80) p/m Xylene	9.792	106	341270	20.276	ug/L		100
81) o Xylene	10.332	106	332798	20.525	ug/L		100

Data Path : K:\VOA122\2024\240122NICAL\
Data File : V22240122N08.D
Acq On : 23 Jan 2024 12:48 am
Operator : VOA122:PID
Sample : I8260STD10PPB
Misc : WG1877676,ICAL
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jan 24 06:58:18 2024
Quant Method : K:\VOA122\2024\240122NICAL\V122_240122N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jan 24 06:57:01 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA122\2024\240122NICAL\V22240122N08.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
82) Styrene	10.402	104	546699	20.926	ug/L		98
84) Bromoform	10.416	173	37821	9.113	ug/L		99
86) Isopropylbenzene	10.718	105	424703	9.847	ug/L		99
88) Bromobenzene	11.146	156	102667	10.013	ug/L		100
89) n-Propylbenzene	11.202	91	482497	9.828	ug/L		100
90) 1,4-Dichlorobutane	11.209	55	99718	9.856	ug/L		99
91) 1,1,2,2-Tetrachloroethane	11.279	83	54669	9.440	ug/L		98
92) 4-Ethyltoluene	11.328	105	424789	9.977	ug/L		99
93) 2-Chlorotoluene	11.363	91	299156M6	10.195	ug/L		
94) 1,3,5-Trimethylbenzene	11.426	105	360178	10.085	ug/L		100
95) 1,2,3-Trichloropropane	11.412	75	45794	9.628	ug/L		97
96) trans-1,4-Dichloro-2-b...	11.468	53	20356	9.358	ug/L	#	80
97) 4-Chlorotoluene	11.545	91	312916	10.002	ug/L		99
98) tert-Butylbenzene	11.770	119	351448	9.590	ug/L		99
101) 1,2,4-Trimethylbenzene	11.847	105	406287	10.163	ug/L		99
102) sec-Butylbenzene	11.958	105	406579	9.385	ug/L		100
103) p-Isopropyltoluene	12.118	119	381074	9.827	ug/L		99
104) 1,3-Dichlorobenzene	12.167	146	207868	10.138	ug/L		97
105) 1,4-Dichlorobenzene	12.264	146	201090	10.000	ug/L		97
106) p-Diethylbenzene	12.494	119	228863	9.856	ug/L		100
107) n-Butylbenzene	12.550	91	294237	9.770	ug/L		99
108) 1,2-Dichlorobenzene	12.689	146	182361	10.042	ug/L		96
109) 1,2,4,5-Tetramethylben...	13.287	119	308331	9.666	ug/L		100
110) 1,2-Dibromo-3-chloropr...	13.468	155	11635	9.860	ug/L		99
111) 1,3,5-Trichlorobenzene	13.503	180	120941	9.894	ug/L		95
112) Hexachlorobutadiene	14.088	225	35853	8.967	ug/L		98
113) 1,2,4-Trichlorobenzene	14.102	180	106511	9.921	ug/L		97
114) Naphthalene	14.394	128	252716	10.112	ug/L		100
115) 1,2,3-Trichlorobenzene	14.561	180	93971	10.170	ug/L		97

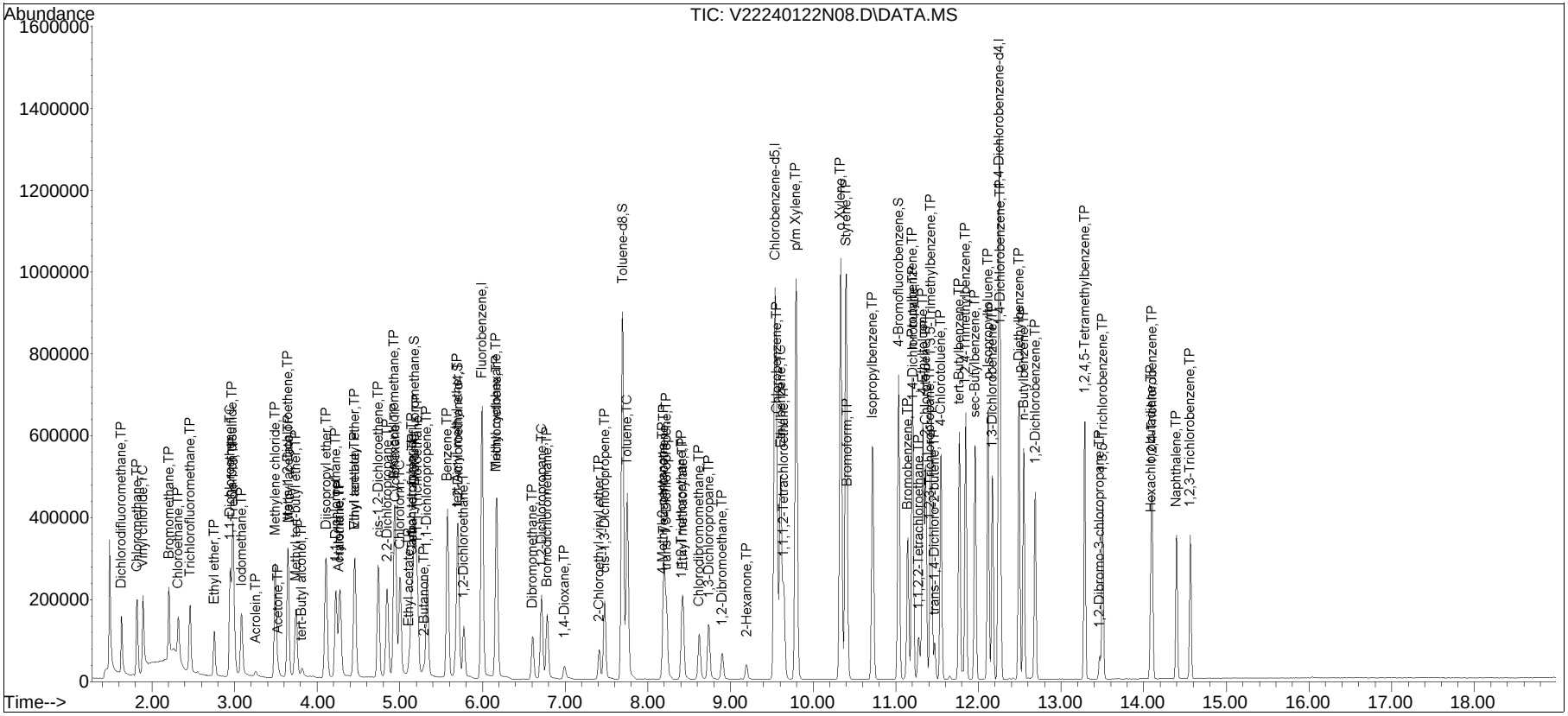
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : K:\VOA122\2024\240122NICAL\
Data File : V22240122N08.D
Acq On : 23 Jan 2024 12:48 am
Operator : VOA122:PID
Sample : I8260STD10PPB
Misc : WG1877676,ICAL
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jan 24 06:58:18 2024
Quant Method : K:\VOA122\2024\240122NICAL\V122_240122N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jan 24 06:57:01 2024
Response via : Initial Calibration

Sub List : 8260-Curve - Megamix plus Diox\V22240122N08.D•

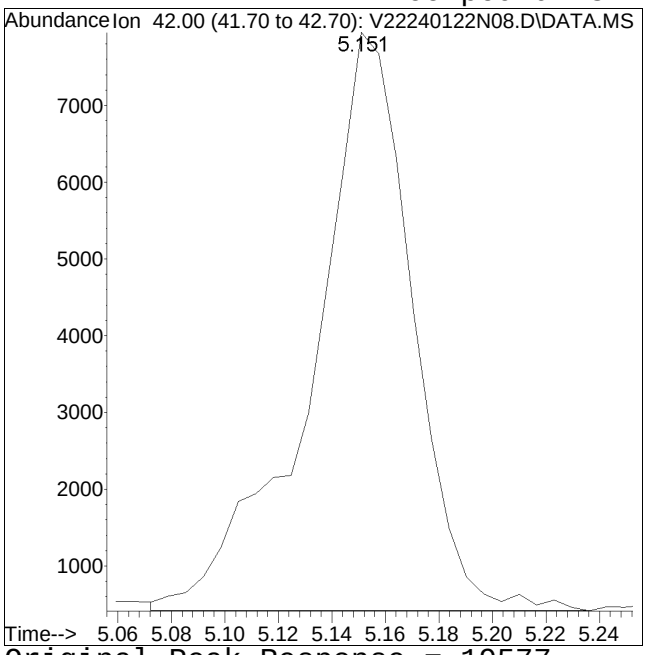


Manual Integration Report

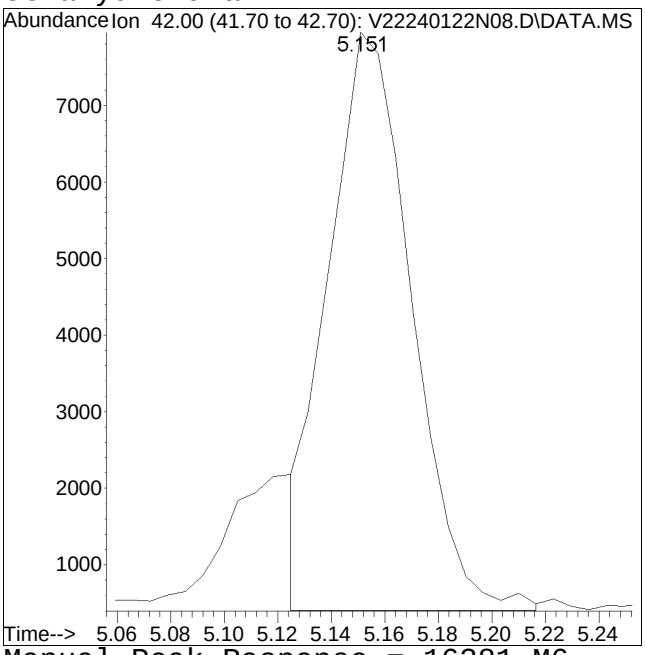
Data Path : K:\VOA122\2024\240122NICALQ
Data File : V22240122N08.D
Date Inj'd : 1/23/2024 12:48 am
Sample : I8260STD10PPB

Method : V122_240122N_8260.m
Operator : VOA122:PID
Instrument : VOA 122
Quant Date : 1/24/2024 6:58 am

Compound #37: Tetrahydrofuran



Original Peak Response = 19577



Manual Peak Response = 16381 M6

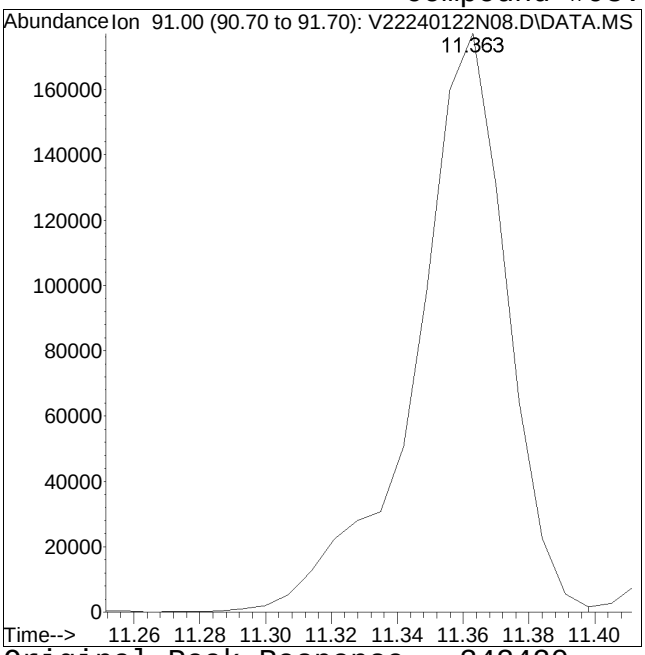
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

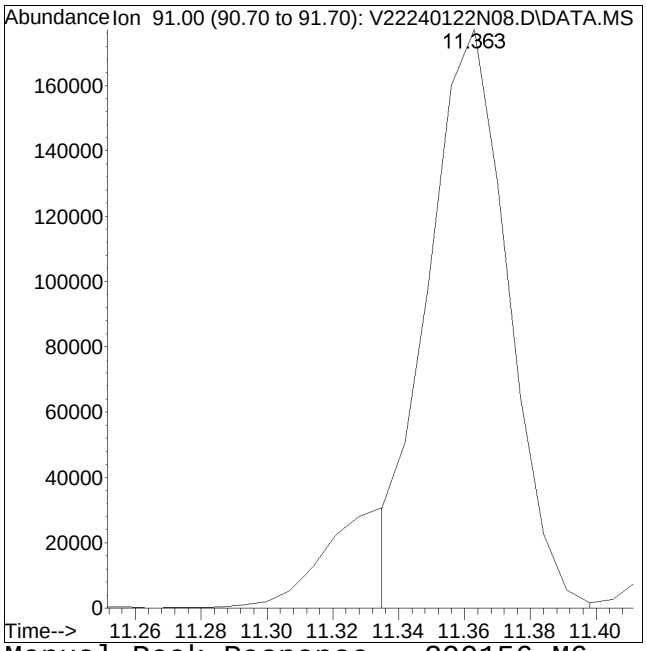
Data Path : K:\VOA122\2024\240122NICALQ
Data File : V22240122N08.D
Date Inj'd : 1/23/2024 12:48 am
Sample : I8260STD10PPB

Method : V122_240122N_8260.m
Operator : VOA122:PID
Instrument : VOA 122
Quant Date : 1/24/2024 6:58 am

Compound #93: 2-Chlorotoluene



Original Peak Response = 342420



Manual Peak Response = 299156 M6

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

Quantitation Report (QT Reviewed)

Data Path : K:\VOA122\2024\240122NICAL\
Data File : V22240122N09.D
Acq On : 23 Jan 2024 01:13 am
Operator : VOA122:PID
Sample : I8260STD30PPB
Misc : WG1877676,ICAL
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jan 24 06:58:28 2024
Quant Method : K:\VOA122\2024\240122NICAL\V122_240122N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jan 24 06:57:01 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA122\2024\240122NICAL\V22240122N08.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	5.997	96	727441	10.000	ug/L	0.00
Standard Area 1 = 652291			Recovery = 111.52%			
62) Chlorobenzene-d5	9.540	117	580442	10.000	ug/L	0.00
Standard Area 1 = 565944			Recovery = 102.56%			
83) 1,4-Dichlorobenzene-d4	12.251	152	285476	10.000	ug/L	0.00
Standard Area 1 = 285544			Recovery = 99.98%			
System Monitoring Compounds						
38) Dibromofluoromethane	5.184	113	242558	9.481	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 94.81%			
46) 1,2-Dichloroethane-d4	5.708	65	227802	9.698	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 96.98%			
63) Toluene-d8	7.696	98	724655	10.010	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.10%			
87) 4-Bromofluorobenzene	11.034	95	265558	10.118	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 101.18%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.638	85	366040	30.871	ug/L #	97
3) Chloromethane	1.822	50	545561	29.713	ug/L	98
4) Vinyl chloride	1.894	62	454248	29.795	ug/L	98
5) Bromomethane	2.208	94	259269	28.235	ug/L	98
6) Chloroethane	2.320	64	246927	29.104	ug/L	97
7) Trichlorofluoromethane	2.464	101	500884	30.658	ug/L	98
8) Ethyl ether	2.759	74	126643	30.642	ug/L #	1
10) 1,1-Dichloroethene	2.949	96	306520	29.557	ug/L #	73
11) Carbon disulfide	2.982	76	1000180	29.791	ug/L	100
12) Freon-113	2.988	101	290554	30.188	ug/L	96
13) Iodomethane	3.087	142	588514	30.035	ug/L	94
14) Acrolein	3.257	56	35124	29.238	ug/L	95
15) Methylene chloride	3.493	84	364228	28.447	ug/L #	69
17) Acetone	3.532	43	62793	24.385	ug/L	99
18) trans-1,2-Dichloroethene	3.650	96	338583	28.745	ug/L	82
19) Methyl acetate	3.650	43	138173	29.814	ug/L #	89
21) Methyl tert-butyl ether	3.742	73	588282	31.765	ug/L #	85
22) tert-Butyl alcohol	3.821	59	84983	148.781	ug/L	98
24) Diisopropyl ether	4.109	45	1028261	30.452	ug/L	93
25) 1,1-Dichloroethane	4.227	63	728244	30.395	ug/L	96
26) Halothane	4.280	117	267387	29.850	ug/L	99

Data Path : K:\VOA122\2024\240122NICAL\
Data File : V22240122N09.D
Acq On : 23 Jan 2024 01:13 am
Operator : VOA122:PID
Sample : I8260STD30PPB
Misc : WG1877676,ICAL
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jan 24 06:58:28 2024
Quant Method : K:\VOA122\2024\240122NICAL\V122_240122N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jan 24 06:57:01 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA122\2024\240122NICAL\V22240122N08.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
27) Acrylonitrile	4.266	53	78835	28.240	ug/L		96
28) Ethyl tert-butyl ether	4.456	59	860976	31.252	ug/L		86
29) Vinyl acetate	4.456	43	412657	31.190	ug/L	#	89
30) cis-1,2-Dichloroethene	4.738	96	380945	28.893	ug/L	#	81
31) 2,2-Dichloropropane	4.850	77	490783	29.711	ug/L		85
32) Bromochloromethane	4.935	128	189779	31.399	ug/L	#	80
33) Cyclohexane	4.948	56	651117	30.685	ug/L		74
34) Chloroform	5.007	83	600124	28.534	ug/L	#	94
35) Ethyl acetate	5.112	43	188819	32.952	ug/L	#	95
36) Carbon tetrachloride	5.145	117	503191	31.146	ug/L		99
37) Tetrahydrofuran	5.151	42	54106M6	29.458	ug/L		
39) 1,1,1-Trichloroethane	5.210	97	548867	29.618	ug/L		95
41) 2-Butanone	5.295	43	82023	30.234	ug/L	#	48
42) 1,1-Dichloropropene	5.335	75	441457	31.396	ug/L		99
44) Benzene	5.577	78	1356724	31.828	ug/L	#	92
45) tert-Amyl methyl ether	5.695	73	534360	30.160	ug/L		93
47) 1,2-Dichloroethane	5.774	62	342159	29.539	ug/L		98
50) Methyl cyclohexane	6.173	83	433227	30.506	ug/L	#	70
51) Trichloroethene	6.173	95	305941	30.879	ug/L		99
53) Dibromomethane	6.605	93	151976	29.833	ug/L	#	83
54) 1,2-Dichloropropane	6.716	63	311275	32.336	ug/L		95
56) 2-Chloroethyl vinyl ether	7.411	63	122522	32.191	ug/L	#	84
57) Bromodichloromethane	6.785	83	385230	30.899	ug/L		99
60) 1,4-Dioxane	6.994	88	35679	609.265	ug/L	#	60
61) cis-1,3-Dichloropropene	7.480	75	426104	32.721	ug/L	#	86
64) Toluene	7.752	92	702449	31.347	ug/L		96
65) 4-Methyl-2-pentanone	8.182	58	52884	30.943	ug/L	#	83
66) Tetrachloroethene	8.196	166	296301	31.199	ug/L		95
68) trans-1,3-Dichloropropene	8.224	75	349810	34.067	ug/L		88
70) Ethyl methacrylate	8.426	69	211333	29.783	ug/L		90
71) 1,1,2-Trichloroethane	8.412	83	162478	31.604	ug/L		99
72) Chlorodibromomethane	8.621	129	263060	32.014	ug/L		100
73) 1,3-Dichloropropane	8.734	76	321420	32.574	ug/L		99
74) 1,2-Dibromoethane	8.902	107	190219	32.288	ug/L		98
76) 2-Hexanone	9.196	43	96749	31.385	ug/L		95
77) Chlorobenzene	9.561	112	804406	30.977	ug/L		89
78) Ethylbenzene	9.603	91	1368294	31.445	ug/L		99
79) 1,1,1,2-Tetrachloroethane	9.645	131	272844	31.184	ug/L		97
80) p/m Xylene	9.792	106	1070753	62.029	ug/L		100
81) o Xylene	10.332	106	1036485	62.326	ug/L		100

Quantitation Report (QT Reviewed)

Data Path : K:\VOA122\2024\240122NICAL\
Data File : V22240122N09.D
Acq On : 23 Jan 2024 01:13 am
Operator : VOA122:PID
Sample : I8260STD30PPB
Misc : WG1877676,ICAL
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jan 24 06:58:28 2024
Quant Method : K:\VOA122\2024\240122NICAL\V122_240122N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jan 24 06:57:01 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA122\2024\240122NICAL\V22240122N08.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
82) Styrene	10.396	104	1702116	63.524	ug/L		97
84) Bromoform	10.410	173	132299	31.884	ug/L		99
86) Isopropylbenzene	10.718	105	1383495	32.083	ug/L		100
88) Bromobenzene	11.146	156	321080	31.323	ug/L		100
89) n-Propylbenzene	11.202	91	1557446	31.731	ug/L		99
90) 1,4-Dichlorobutane	11.209	55	317962	31.435	ug/L		98
91) 1,1,2,2-Tetrachloroethane	11.279	83	173837	30.024	ug/L		100
92) 4-Ethyltoluene	11.328	105	1347174	31.649	ug/L		99
93) 2-Chlorotoluene	11.363	91	929238M6	31.676	ug/L		
94) 1,3,5-Trimethylbenzene	11.426	105	1156022	32.376	ug/L		100
95) 1,2,3-Trichloropropane	11.419	75	149812M1	31.506	ug/L		
96) trans-1,4-Dichloro-2-b...	11.468	53	64597	29.705	ug/L		84
97) 4-Chlorotoluene	11.546	91	970891	31.042	ug/L		99
98) tert-Butylbenzene	11.770	119	1143274	31.203	ug/L		100
101) 1,2,4-Trimethylbenzene	11.847	105	1303445	32.611	ug/L		91
102) sec-Butylbenzene	11.958	105	1382296	31.914	ug/L		100
103) p-Isopropyltoluene	12.118	119	1241372	32.021	ug/L		99
104) 1,3-Dichlorobenzene	12.174	146	636926	31.070	ug/L		97
105) 1,4-Dichlorobenzene	12.264	146	624418	31.060	ug/L		97
106) p-Diethylbenzene	12.494	119	755234	32.532	ug/L		100
107) n-Butylbenzene	12.550	91	992703	32.969	ug/L		99
108) 1,2-Dichlorobenzene	12.689	146	571249	31.465	ug/L		97
109) 1,2,4,5-Tetramethylben...	13.288	119	1017691	31.910	ug/L		100
110) 1,2-Dibromo-3-chloropr...	13.469	155	37420	31.718	ug/L		99
111) 1,3,5-Trichlorobenzene	13.504	180	391017	31.998	ug/L		95
112) Hexachlorobutadiene	14.088	225	124883	31.242	ug/L		99
113) 1,2,4-Trichlorobenzene	14.102	180	338333	31.523	ug/L		97
114) Naphthalene	14.395	128	798966	31.977	ug/L		100
115) 1,2,3-Trichlorobenzene	14.562	180	297893	32.248	ug/L	#	97

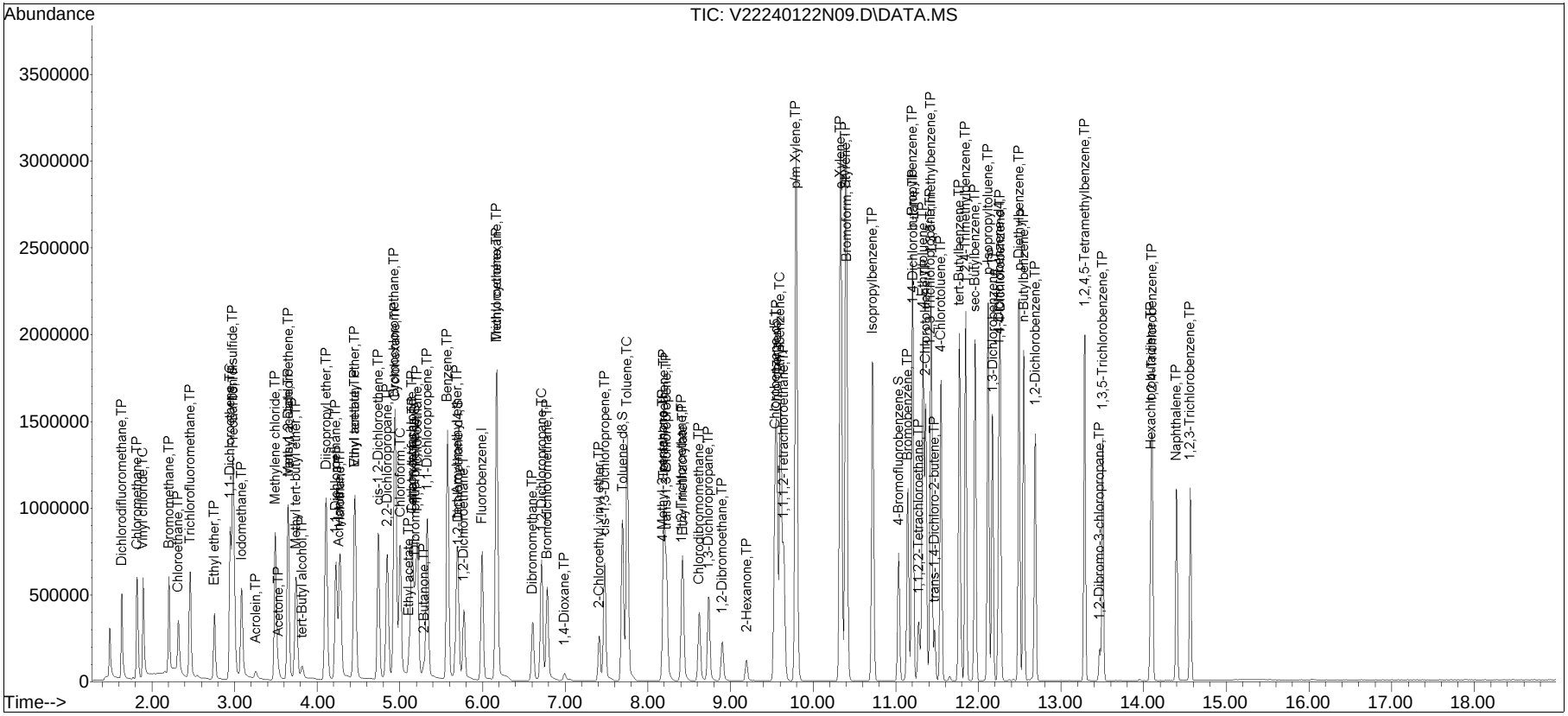
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : K:\VOA122\2024\240122NICAL\
Data File : V22240122N09.D
Acq On : 23 Jan 2024 01:13 am
Operator : VOA122:PID
Sample : I8260STD30PPB
Misc : WG1877676,ICAL
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jan 24 06:58:28 2024
Quant Method : K:\VOA122\2024\240122NICAL\V122_240122N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jan 24 06:57:01 2024
Response via : Initial Calibration

Sub List : 8260-Curve - Megamix plus Diox\V22240122N08.D•

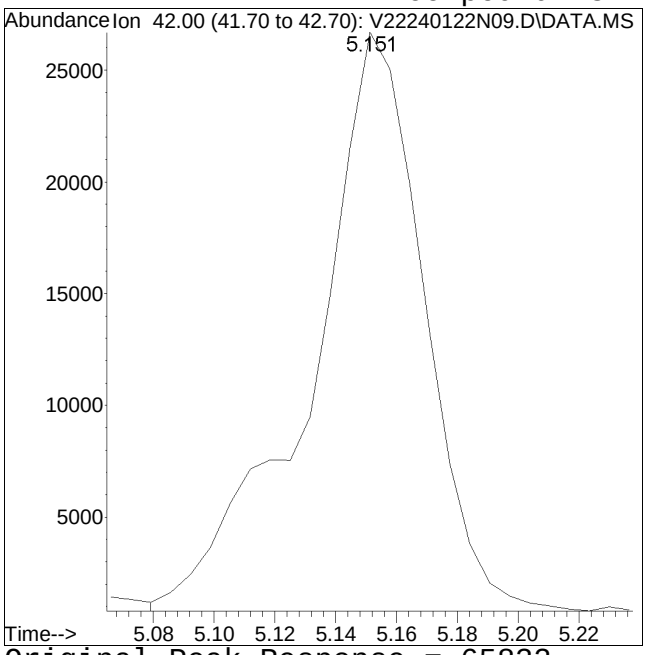


Manual Integration Report

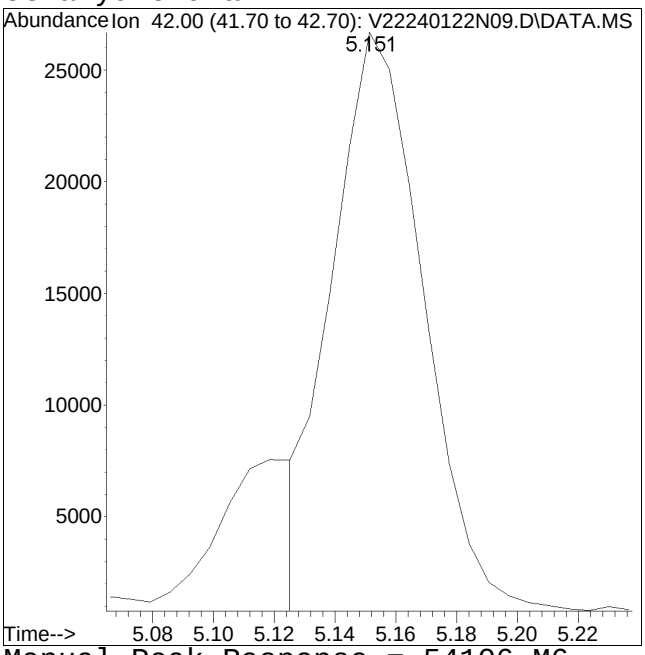
Data Path : K:\VOA122\2024\240122NICALQ
Data File : V22240122N09.D
Date Inj'd : 1/23/2024 1:13 am
Sample : I8260STD30PPB

Method : V122_240122N_8260.m
Operator : VOA122:PID
Instrument : VOA 122
Quant Date : 1/24/2024 6:58 am

Compound #37: Tetrahydrofuran



Original Peak Response = 65832



Manual Peak Response = 54106 M6

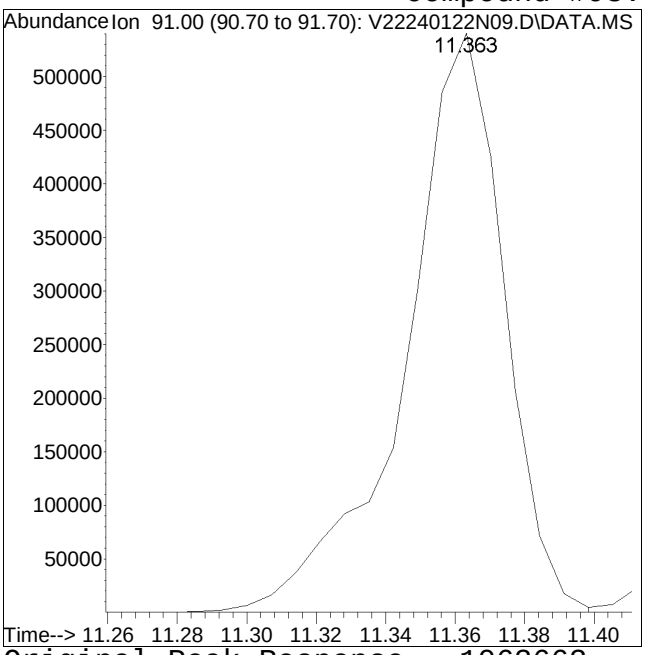
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

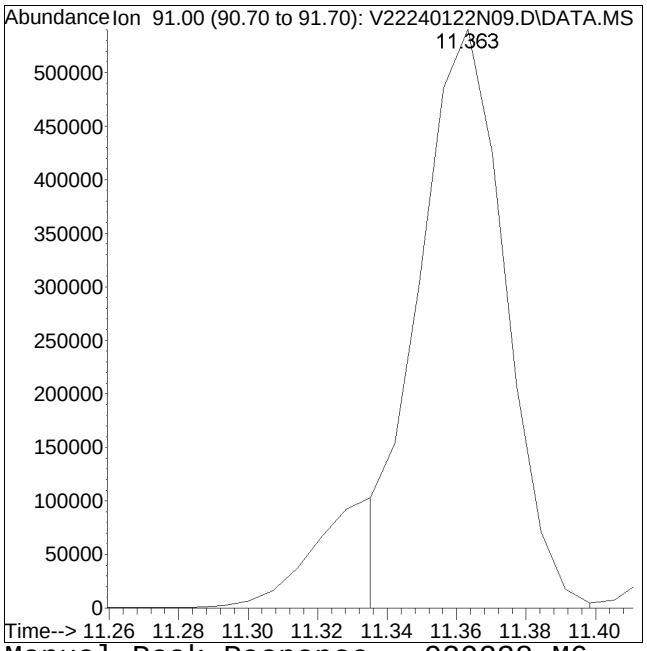
Data Path : K:\VOA122\2024\240122NICALQ
Data File : V22240122N09.D
Date Inj'd : 1/23/2024 1:13 am
Sample : I8260STD30PPB

Method : V122_240122N_8260.m
Operator : VOA122:PID
Instrument : VOA 122
Quant Date : 1/24/2024 6:58 am

Compound #93: 2-Chlorotoluene



Original Peak Response = 1063663



Manual Peak Response = 929238 M6

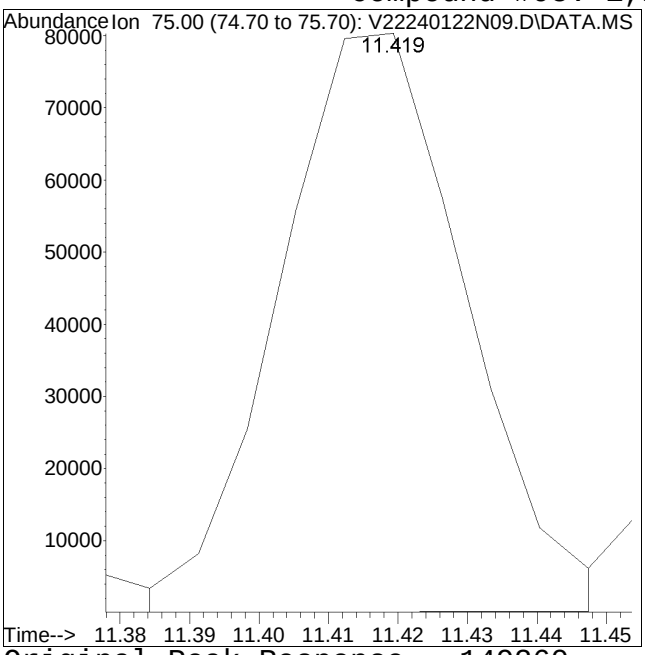
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

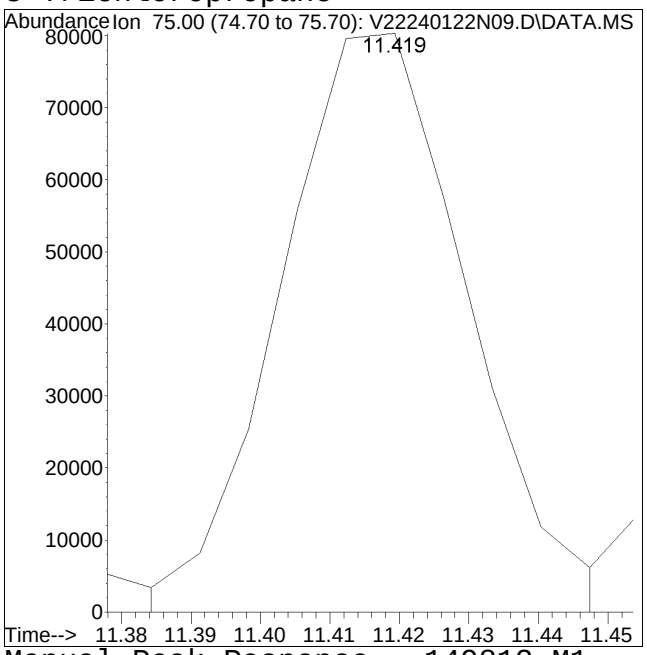
Data Path : K:\VOA122\2024\240122NICALQ
Data File : V22240122N09.D
Date Inj'd : 1/23/2024 1:13 am
Sample : I8260STD30PPB

Method : V122_240122N_8260.m
Operator : VOA122:PID
Instrument : VOA 122
Quant Date : 1/24/2024 6:58 am

Compound #95: 1,2,3-Trichloropropane



Original Peak Response = 149260



Manual Peak Response = 149812 M1

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

Quantitation Report (QT Reviewed)

Data Path : K:\VOA122\2024\240122NICAL\
Data File : V22240122N10.D
Acq On : 23 Jan 2024 01:37 am
Operator : VOA122:PID
Sample : I8260STD80PPB
Misc : WG1877676,ICAL
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jan 24 06:58:37 2024
Quant Method : K:\VOA122\2024\240122NICAL\V122_240122N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jan 24 06:57:01 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA122\2024\240122NICAL\V22240122N08.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	5.997	96	771794	10.000	ug/L	0.00
Standard Area 1 = 652291			Recovery = 118.32%			
62) Chlorobenzene-d5	9.540	117	585456	10.000	ug/L	0.00
Standard Area 1 = 565944			Recovery = 103.45%			
83) 1,4-Dichlorobenzene-d4	12.251	152	291280	10.000	ug/L	0.00
Standard Area 1 = 285544			Recovery = 102.01%			
System Monitoring Compounds						
38) Dibromofluoromethane	5.184	113	246890	9.096	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 90.96%			
46) 1,2-Dichloroethane-d4	5.708	65	237121	9.514	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 95.14%			
63) Toluene-d8	7.696	98	741526	10.156	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 101.56%			
87) 4-Bromofluorobenzene	11.034	95	267565	9.992	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.92%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.638	85	980607	77.949	ug/L #	96
3) Chloromethane	1.822	50	1457555	74.821	ug/L	98
4) Vinyl chloride	1.894	62	1199122	74.134	ug/L	98
5) Bromomethane	2.209	94	675394	69.325	ug/L	98
6) Chloroethane	2.320	64	655785	72.851	ug/L	97
7) Trichlorofluoromethane	2.464	101	1349725	77.867	ug/L	99
8) Ethyl ether	2.759	74	343910	78.429	ug/L #	1
10) 1,1-Dichloroethene	2.949	96	834589	75.853	ug/L #	76
11) Carbon disulfide	2.982	76	2630558	73.850	ug/L	100
12) Freon-113	2.989	101	778099	76.198	ug/L	96
13) Iodomethane	3.087	142	1640400	78.908	ug/L	94
14) Acrolein	3.257	56	95820	75.180	ug/L	99
15) Methylene chloride	3.493	84	967106	71.192	ug/L #	70
17) Acetone	3.526	43	165957	60.744	ug/L	98
18) trans-1,2-Dichloroethene	3.650	96	944533	75.582	ug/L	82
19) Methyl acetate	3.650	43	369736	75.194	ug/L #	89
21) Methyl tert-butyl ether	3.742	73	1658071	84.386	ug/L #	85
22) tert-Butyl alcohol	3.821	59	230399	380.182	ug/L	97
24) Diisopropyl ether	4.109	45	2961383	82.661	ug/L	93
25) 1,1-Dichloroethane	4.227	63	1972689	77.604	ug/L	97
26) Halothane	4.280	117	736824	77.529	ug/L	99

Data Path : K:\VOA122\2024\240122NICAL\
Data File : V22240122N10.D
Acq On : 23 Jan 2024 01:37 am
Operator : VOA122:PID
Sample : I8260STD80PPB
Misc : WG1877676,ICAL
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jan 24 06:58:37 2024
Quant Method : K:\VOA122\2024\240122NICAL\V122_240122N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jan 24 06:57:01 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA122\2024\240122NICAL\V22240122N08.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
27) Acrylonitrile	4.267	53	207440	70.038	ug/L		94
28) Ethyl tert-butyl ether	4.457	59	2493740	85.316	ug/L		85
29) Vinyl acetate	4.457	43	1112381	79.245	ug/L	#	89
30) cis-1,2-Dichloroethene	4.738	96	1024890	73.265	ug/L	#	82
31) 2,2-Dichloropropane	4.850	77	1334190	76.127	ug/L		86
32) Bromochloromethane	4.935	128	505668	78.855	ug/L	#	79
33) Cyclohexane	4.948	56	1875094	83.288	ug/L		73
34) Chloroform	5.007	83	1637031	73.364	ug/L	#	94
35) Ethyl acetate	5.112	43	528784	86.979	ug/L	#	95
36) Carbon tetrachloride	5.145	117	1387598	80.952	ug/L		99
37) Tetrahydrofuran	5.151	42	148014M6	75.956	ug/L		
39) 1,1,1-Trichloroethane	5.210	97	1565220	79.608	ug/L		96
41) 2-Butanone	5.296	43	234062	81.317	ug/L	#	47
42) 1,1-Dichloropropene	5.335	75	1300980	87.207	ug/L		99
44) Benzene	5.577	78	3788560	83.770	ug/L	#	92
45) tert-Amyl methyl ether	5.695	73	1548564	82.379	ug/L		93
47) 1,2-Dichloroethane	5.774	62	980137	79.755	ug/L		98
50) Methyl cyclohexane	6.173	83	1250286	82.980	ug/L	#	70
51) Trichloroethene	6.173	95	896683	85.302	ug/L		99
53) Dibromomethane	6.605	93	414195	76.634	ug/L	#	84
54) 1,2-Dichloropropane	6.716	63	879450	86.108	ug/L		96
56) 2-Chloroethyl vinyl ether	7.411	63	348521	86.306	ug/L	#	86
57) Bromodichloromethane	6.786	83	1083672	81.925	ug/L		99
60) 1,4-Dioxane	6.994	88	47541	765.171	ug/L	#	63
61) cis-1,3-Dichloropropene	7.481	75	1222153	88.457	ug/L	#	86
64) Toluene	7.752	92	1884138	83.359	ug/L		96
65) 4-Methyl-2-pentanone	8.183	58	139109	80.697	ug/L		82
66) Tetrachloroethene	8.196	166	814175	84.995	ug/L		94
68) trans-1,3-Dichloropropene	8.224	75	987740	95.370	ug/L		88
70) Ethyl methacrylate	8.426	69	532753	74.437	ug/L		84
71) 1,1,2-Trichloroethane	8.412	83	462727	89.236	ug/L		98
72) Chlorodibromomethane	8.621	129	750596	90.564	ug/L		100
73) 1,3-Dichloropropane	8.741	76	901058	90.535	ug/L		99
74) 1,2-Dibromoethane	8.902	107	534235	89.904	ug/L		99
76) 2-Hexanone	9.189	43	246579	79.304	ug/L		94
77) Chlorobenzene	9.561	112	2153987	82.238	ug/L		89
78) Ethylbenzene	9.610	91	3602358	82.076	ug/L		99
79) 1,1,1,2-Tetrachloroethane	9.645	131	783347	88.765	ug/L		97
80) p/m Xylene	9.800	106	2834044	162.770	ug/L		97
81) o Xylene	10.333	106	2726010	162.518	ug/L		99

Data Path : K:\VOA122\2024\240122NICAL\
Data File : V22240122N10.D
Acq On : 23 Jan 2024 01:37 am
Operator : VOA122:PID
Sample : I8260STD80PPB
Misc : WG1877676,ICAL
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jan 24 06:58:37 2024
Quant Method : K:\VOA122\2024\240122NICAL\V122_240122N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jan 24 06:57:01 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA122\2024\240122NICAL\V22240122N08.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
82) Styrene	10.403	104	4441479	164.338	ug/L	96
84) Bromoform	10.417	173	369182	87.200	ug/L	100
86) Isopropylbenzene	10.718	105	3650601	82.971	ug/L	99
88) Bromobenzene	11.146	156	856740	81.915	ug/L	99
89) n-Propylbenzene	11.202	91	4134626	82.559	ug/L	98
90) 1,4-Dichlorobutane	11.209	55	838712	81.266	ug/L	98
91) 1,1,2,2-Tetrachloroethane	11.279	83	463979	78.540	ug/L	99
92) 4-Ethyltoluene	11.328	105	3549047	81.715	ug/L	98
93) 2-Chlorotoluene	11.363	91	2319550M6	77.494	ug/L	
94) 1,3,5-Trimethylbenzene	11.427	105	3043738	83.545	ug/L	99
95) 1,2,3-Trichloropropane	11.419	75	402052	82.869	ug/L	98
96) trans-1,4-Dichloro-2-b...	11.469	53	173209	78.063	ug/L	84
97) 4-Chlorotoluene	11.546	91	2603615	81.585	ug/L	98
98) tert-Butylbenzene	11.770	119	3060185	81.857	ug/L	99
101) 1,2,4-Trimethylbenzene	11.847	105	3441504	84.389	ug/L	92
102) sec-Butylbenzene	11.958	105	3638647	82.334	ug/L	98
103) p-Isopropyltoluene	12.118	119	3252662	82.230	ug/L	99
104) 1,3-Dichlorobenzene	12.174	146	1697482	81.156	ug/L	97
105) 1,4-Dichlorobenzene	12.265	146	1667898	81.313	ug/L	98
106) p-Diethylbenzene	12.494	119	2034462	85.890	ug/L	100
107) n-Butylbenzene	12.550	91	2611608	85.006	ug/L	99
108) 1,2-Dichlorobenzene	12.689	146	1522368	82.182	ug/L	96
109) 1,2,4,5-Tetramethylben...	13.288	119	2803592	86.157	ug/L	99
110) 1,2-Dibromo-3-chloropr...	13.469	155	97555	81.042	ug/L	100
111) 1,3,5-Trichlorobenzene	13.504	180	1056109	84.702	ug/L	95
112) Hexachlorobutadiene	14.088	225	328446	80.531	ug/L	99
113) 1,2,4-Trichlorobenzene	14.102	180	894039	81.638	ug/L	97
114) Naphthalene	14.395	128	2045651	80.242	ug/L	100
115) 1,2,3-Trichlorobenzene	14.562	180	765603	81.227	ug/L	97

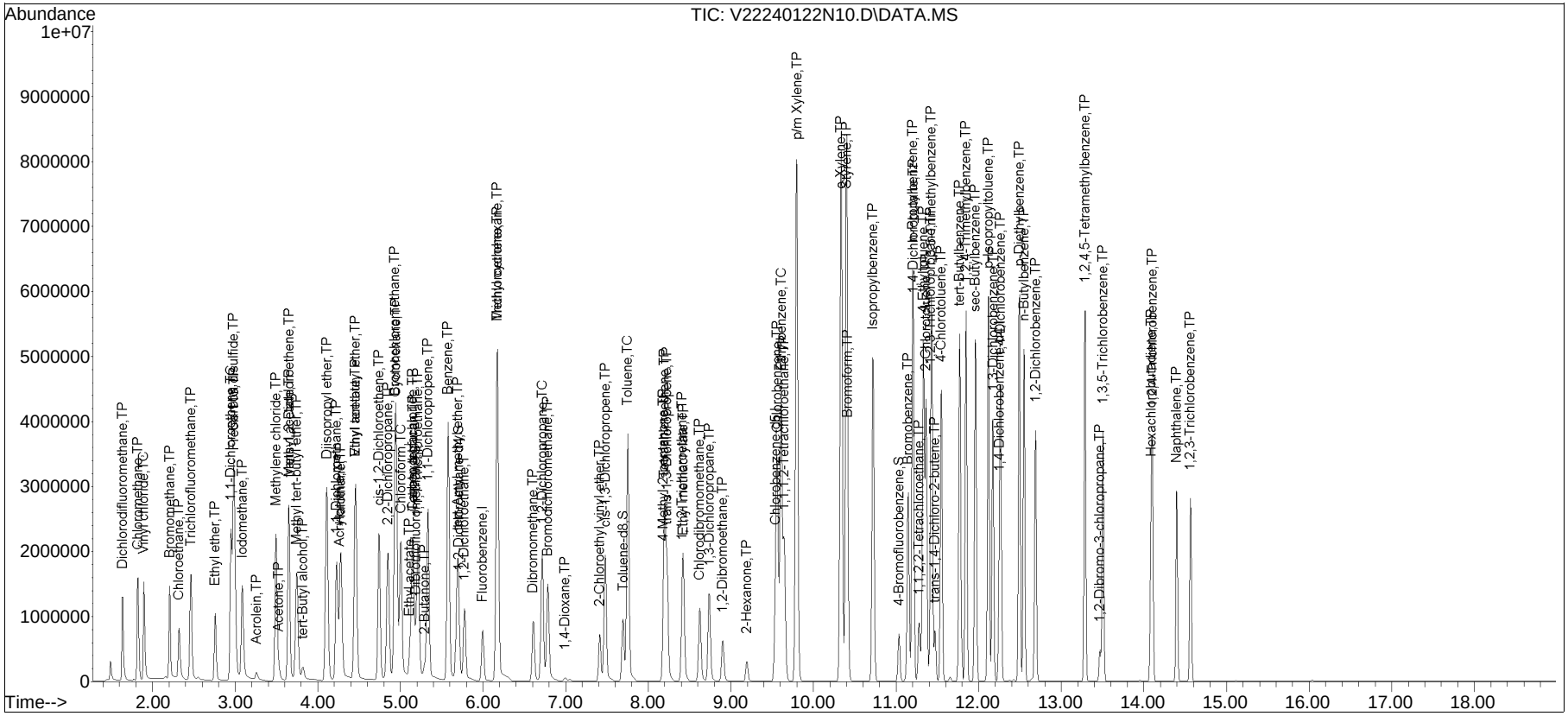
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : K:\VOA122\2024\240122NICAL\
Data File : V22240122N10.D
Acq On : 23 Jan 2024 01:37 am
Operator : VOA122:PID
Sample : I8260STD80PPB
Misc : WG1877676,ICAL
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jan 24 06:58:37 2024
Quant Method : K:\VOA122\2024\240122NICAL\V122_240122N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jan 24 06:57:01 2024
Response via : Initial Calibration

Sub List : 8260-Curve - Megamix plus Diox\V22240122N08.D•

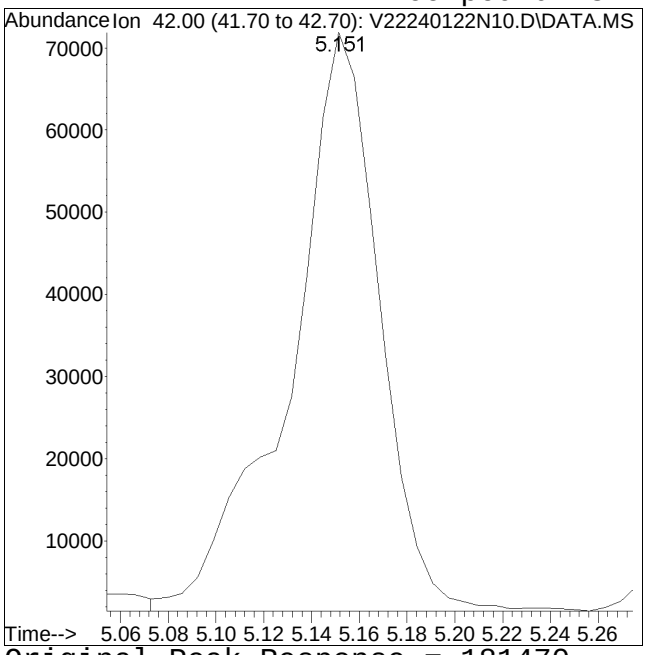


Manual Integration Report

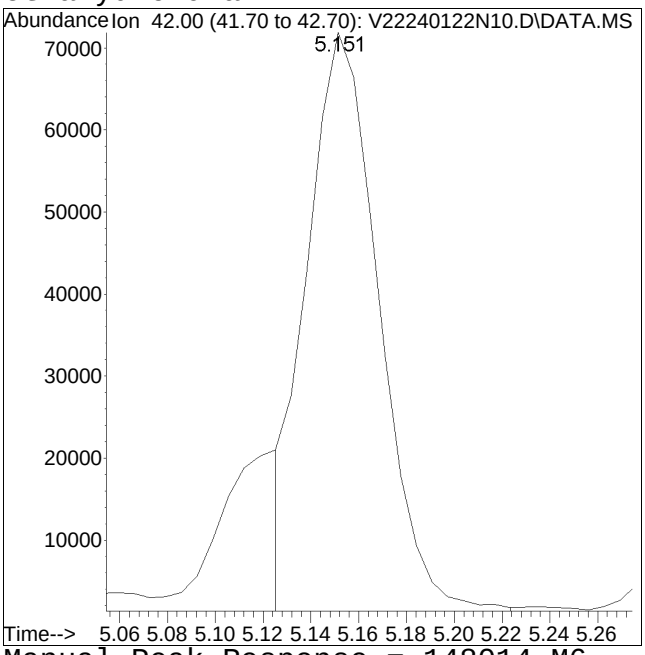
Data Path : K:\VOA122\2024\240122NICALQ
Data File : V22240122N10.D
Date Inj'd : 1/23/2024 1:37 am
Sample : I8260STD80PPB

Method : V122_240122N_8260.m
Operator : VOA122:PID
Instrument : VOA 122
Quant Date : 1/24/2024 6:58 am

Compound #37: Tetrahydrofuran



Original Peak Response = 181470



Manual Peak Response = 148014 M6

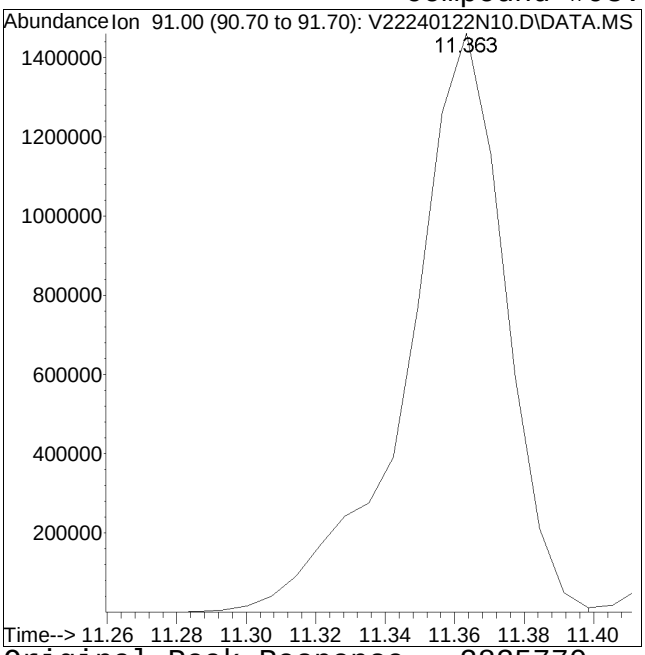
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

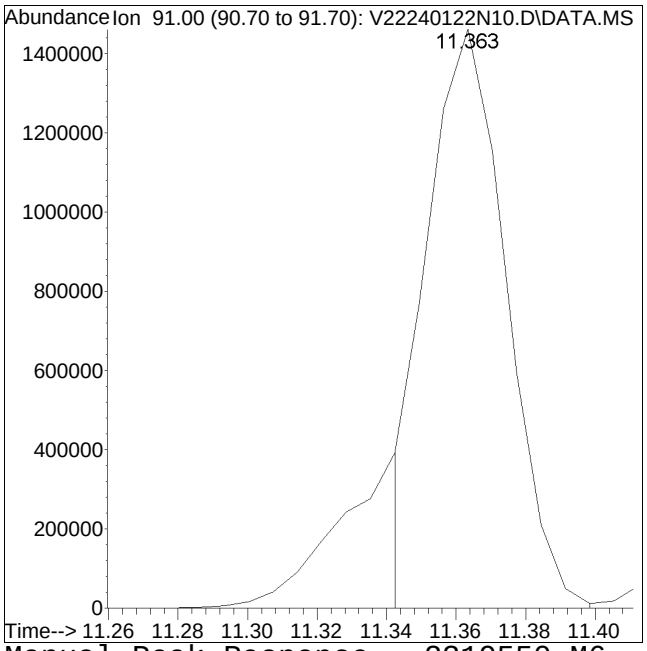
Data Path : K:\VOA122\2024\240122NICALQ
Data File : V22240122N10.D
Date Inj'd : 1/23/2024 1:37 am
Sample : I8260STD80PPB

Method : V122_240122N_8260.m
Operator : VOA122:PID
Instrument : VOA 122
Quant Date : 1/24/2024 6:58 am

Compound #93: 2-Chlorotoluene



Original Peak Response = 2835770



Manual Peak Response = 2319550 M6

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

Quantitation Report (QT Reviewed)

Data Path : K:\VOA122\2024\240122NICAL\
Data File : V22240122N11.D
Acq On : 23 Jan 2024 02:01 am
Operator : VOA122:PID
Sample : I8260STD120PPB
Misc : WG1877676,ICAL
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jan 24 06:58:47 2024
Quant Method : K:\VOA122\2024\240122NICAL\V122_240122N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jan 24 06:57:01 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA122\2024\240122NICAL\V22240122N08.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	5.996	96	791299	10.000	ug/L	0.00
Standard Area 1 = 652291			Recovery = 121.31%			
62) Chlorobenzene-d5	9.540	117	589445	10.000	ug/L	0.00
Standard Area 1 = 565944			Recovery = 104.15%			
83) 1,4-Dichlorobenzene-d4	12.250	152	292549	10.000	ug/L	0.00
Standard Area 1 = 285544			Recovery = 102.45%			
System Monitoring Compounds						
38) Dibromofluoromethane	5.184	113	249952	8.981	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 89.81%			
46) 1,2-Dichloroethane-d4	5.708	65	244643	9.574	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 95.74%			
63) Toluene-d8	7.696	98	743452	10.113	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 101.13%			
87) 4-Bromofluorobenzene	11.034	95	270498	10.057	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.57%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.632	85	1646902	127.687	ug/L #	96
3) Chloromethane	1.822	50	2226226	111.463	ug/L	98
4) Vinyl chloride	1.894	62	1946813	117.392	ug/L	98
5) Bromomethane	2.208	94	1047792	104.899	ug/L	98
6) Chloroethane	2.320	64	987467	106.993	ug/L	97
7) Trichlorofluoromethane	2.464	101	2268727	127.659	ug/L	99
8) Ethyl ether	2.759	74	537245	119.499	ug/L #	1
10) 1,1-Dichloroethene	2.949	96	1356336	120.234	ug/L #	76
11) Carbon disulfide	2.975	76	4222808	115.629	ug/L	99
12) Freon-113	2.988	101	1411639	134.831	ug/L	95
13) Iodomethane	3.087	142	2469523	115.864	ug/L	94
14) Acrolein	3.257	56	151391	115.852	ug/L	99
15) Methylene chloride	3.493	84	1461934	104.965	ug/L #	70
17) Acetone	3.526	43	264343	94.370	ug/L	100
18) trans-1,2-Dichloroethene	3.650	96	1481286	115.611	ug/L	83
19) Methyl acetate	3.650	43	592704	117.569	ug/L #	89
21) Methyl tert-butyl ether	3.749	73	2641642	131.130	ug/L #	86
22) tert-Butyl alcohol	3.821	59	380595	612.541	ug/L	98
24) Diisopropyl ether	4.109	45	4751972	129.372	ug/L	92
25) 1,1-Dichloroethane	4.227	63	3017096	115.765	ug/L	97
26) Halothane	4.279	117	1235424	126.788	ug/L	99

Data Path : K:\VOA122\2024\240122NICAL\
Data File : V22240122N11.D
Acq On : 23 Jan 2024 02:01 am
Operator : VOA122:PID
Sample : I8260STD120PPB
Misc : WG1877676,ICAL
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jan 24 06:58:47 2024
Quant Method : K:\VOA122\2024\240122NICAL\V122_240122N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jan 24 06:57:01 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA122\2024\240122NICAL\V22240122N08.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
27) Acrylonitrile	4.266	53	324098	106.728	ug/L		94
28) Ethyl tert-butyl ether	4.456	59	3948303	131.750	ug/L		83
29) Vinyl acetate	4.456	43	1676752	116.506	ug/L	#	89
30) cis-1,2-Dichloroethene	4.738	96	1575437	109.846	ug/L	#	82
31) 2,2-Dichloropropane	4.850	77	2102765	117.024	ug/L		86
32) Bromochloromethane	4.935	128	757250	115.177	ug/L	#	79
33) Cyclohexane	4.948	56	3272268	141.765	ug/L		73
34) Chloroform	5.007	83	2592832	113.334	ug/L		96
35) Ethyl acetate	5.118	43	847918	136.035	ug/L	#	94
36) Carbon tetrachloride	5.145	117	2313792	131.658	ug/L		99
37) Tetrahydrofuran	5.151	42	218241M6	109.233	ug/L		
39) 1,1,1-Trichloroethane	5.210	97	2514699	124.747	ug/L		96
41) 2-Butanone	5.295	43	378899	128.392	ug/L	#	46
42) 1,1-Dichloropropene	5.335	75	2119311	138.560	ug/L		99
44) Benzene	5.577	78	5783582	124.730	ug/L	#	91
45) tert-Amyl methyl ether	5.695	73	2482298	128.796	ug/L		93
47) 1,2-Dichloroethane	5.774	62	1499878	119.038	ug/L		97
50) Methyl cyclohexane	6.173	83	2238859	144.928	ug/L	#	71
51) Trichloroethene	6.173	95	1415304	131.320	ug/L		100
53) Dibromomethane	6.605	93	636968	114.947	ug/L	#	84
54) 1,2-Dichloropropane	6.716	63	1349118	128.838	ug/L		96
56) 2-Chloroethyl vinyl ether	7.411	63	552053	133.338	ug/L	#	85
57) Bromodichloromethane	6.785	83	1656363	122.134	ug/L		99
60) 1,4-Dioxane	6.994	88	73578	1155.045	ug/L	#	65
61) cis-1,3-Dichloropropene	7.480	75	1881795	132.843	ug/L	#	86
64) Toluene	7.751	92	2897936	127.345	ug/L		95
65) 4-Methyl-2-pentanone	8.182	58	222088	127.960	ug/L	#	83
66) Tetrachloroethene	8.196	166	1331211	138.030	ug/L		94
68) trans-1,3-Dichloropropene	8.231	75	1519013	145.674	ug/L		88
70) Ethyl methacrylate	8.426	69	819346	113.706	ug/L		83
71) 1,1,2-Trichloroethane	8.412	83	726760	139.206	ug/L		96
72) Chlorodibromomethane	8.621	129	1166782	139.826	ug/L		99
73) 1,3-Dichloropropane	8.740	76	1402342	139.949	ug/L		99
74) 1,2-Dibromoethane	8.902	107	825509	137.981	ug/L		99
76) 2-Hexanone	9.196	43	386705	123.530	ug/L		94
77) Chlorobenzene	9.561	112	3255957	123.470	ug/L		89
78) Ethylbenzene	9.610	91	5513190	124.763	ug/L		98
79) 1,1,1,2-Tetrachloroethane	9.645	131	1225814	137.963	ug/L		97
80) p/m Xylene	9.799	106	4336438	247.373	ug/L		96
81) o Xylene	10.339	106	4141802	245.253	ug/L		96

Data Path : K:\VOA122\2024\240122NICAL\
Data File : V22240122N11.D
Acq On : 23 Jan 2024 02:01 am
Operator : VOA122:PID
Sample : I8260STD120PPB
Misc : WG1877676,ICAL
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jan 24 06:58:47 2024
Quant Method : K:\VOA122\2024\240122NICAL\V122_240122N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jan 24 06:57:01 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA122\2024\240122NICAL\V22240122N08.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
82) Styrene	10.402	104	6585166	242.007	ug/L		96
84) Bromoform	10.416	173	581359	136.720	ug/L		99
86) Isopropylbenzene	10.725	105	5700676	129.003	ug/L		98
88) Bromobenzene	11.146	156	1303500	124.090	ug/L		99
89) n-Propylbenzene	11.202	91	6403711	127.313	ug/L		97
90) 1,4-Dichlorobutane	11.209	55	1291319	124.577	ug/L		98
91) 1,1,2,2-Tetrachloroethane	11.279	83	715486	120.588	ug/L		99
92) 4-Ethyltoluene	11.328	105	5472290	125.450	ug/L		98
93) 2-Chlorotoluene	11.363	91	3812775M6	126.829	ug/L		
94) 1,3,5-Trimethylbenzene	11.433	105	4612744	126.062	ug/L		98
95) 1,2,3-Trichloropropane	11.419	75	624483	128.156	ug/L		99
96) trans-1,4-Dichloro-2-b...	11.475	53	272055	122.080	ug/L		84
97) 4-Chlorotoluene	11.545	91	3955831	123.420	ug/L		98
98) tert-Butylbenzene	11.770	119	4790123	127.576	ug/L		98
101) 1,2,4-Trimethylbenzene	11.847	105	5152552	125.797	ug/L		92
102) sec-Butylbenzene	11.965	105	5765103	129.885	ug/L		98
103) p-Isopropyltoluene	12.118	119	5055028	127.241	ug/L		98
104) 1,3-Dichlorobenzene	12.174	146	2560381	121.879	ug/L		97
105) 1,4-Dichlorobenzene	12.264	146	2518767	122.262	ug/L		98
106) p-Diethylbenzene	12.494	119	3109533	130.707	ug/L		100
107) n-Butylbenzene	12.550	91	4068072	131.838	ug/L		98
108) 1,2-Dichlorobenzene	12.689	146	2271923	122.113	ug/L		96
109) 1,2,4,5-Tetramethylben...	13.288	119	4265185	130.504	ug/L		99
110) 1,2-Dibromo-3-chloropr...	13.469	155	147416	121.932	ug/L		99
111) 1,3,5-Trichlorobenzene	13.503	180	1594737	127.346	ug/L		95
112) Hexachlorobutadiene	14.088	225	542209	132.367	ug/L		99
113) 1,2,4-Trichlorobenzene	14.102	180	1352883	123.001	ug/L	#	96
114) Naphthalene	14.394	128	3065007	119.705	ug/L		100
115) 1,2,3-Trichlorobenzene	14.568	180	1163366	122.892	ug/L		97

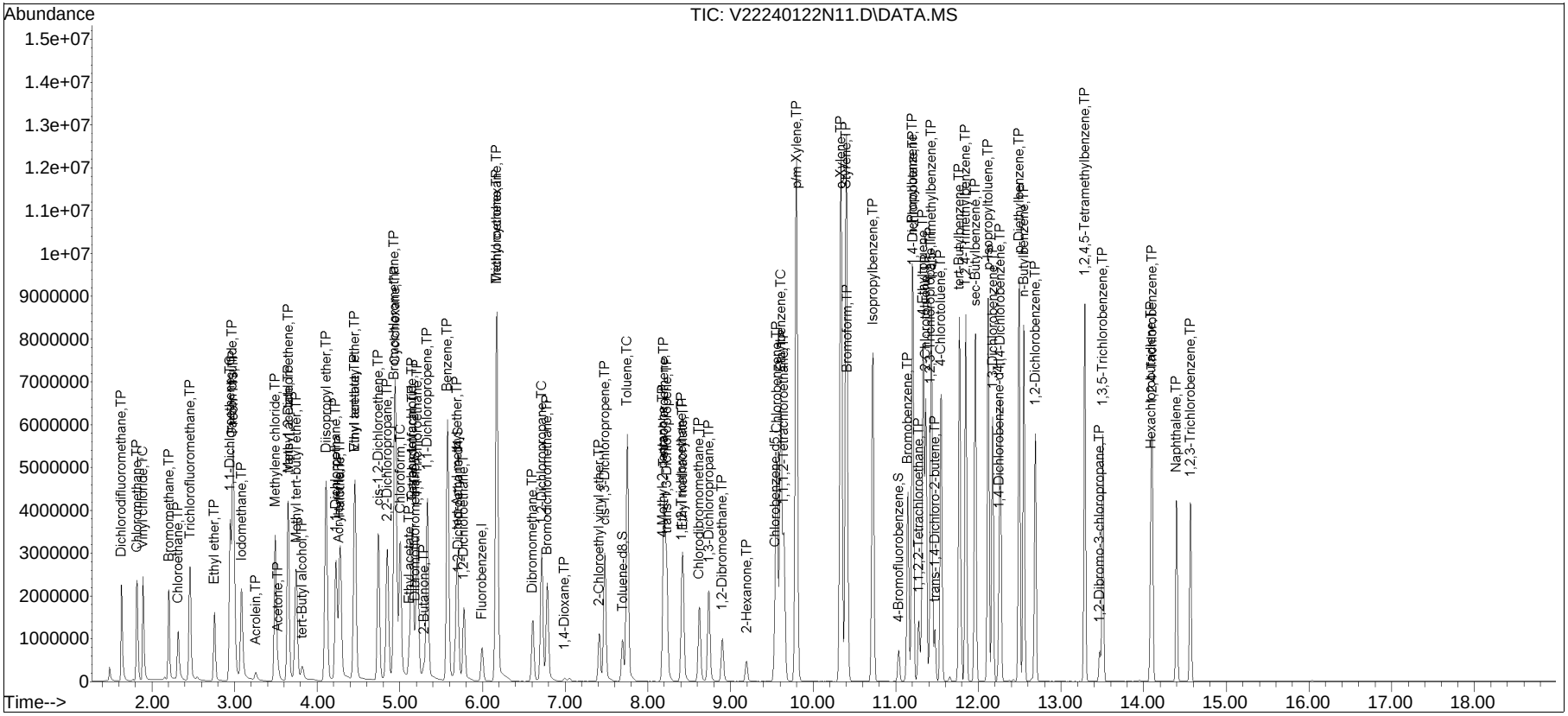
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : K:\VOA122\2024\240122NICAL\
Data File : V22240122N11.D
Acq On : 23 Jan 2024 02:01 am
Operator : VOA122:PID
Sample : I8260STD120PPB
Misc : WG1877676,ICAL
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jan 24 06:58:47 2024
Quant Method : K:\VOA122\2024\240122NICAL\V122_240122N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jan 24 06:57:01 2024
Response via : Initial Calibration

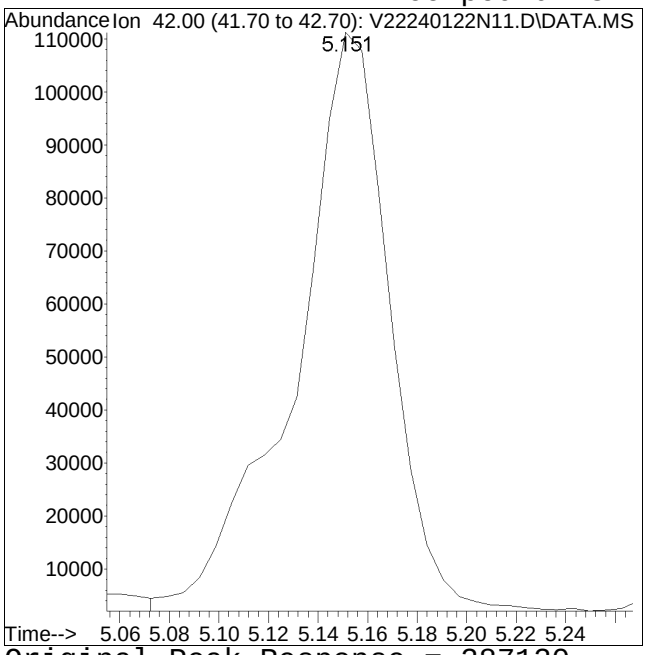
Sub List : 8260-Curve - Megamix plus Diox\V22240122N08.D•



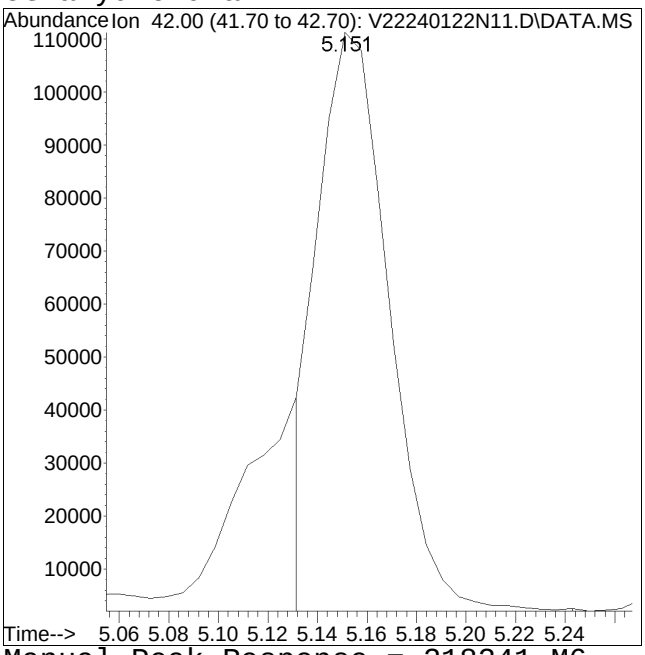
Manual Integration Report

Data Path : K:\VOA122\2024\240122NICALQMethod : V122_240122N_8260.m
Data File : V22240122N11.D Operator : VOA122:PID
Date Inj'd : 1/23/2024 2:01 am Instrument : VOA 122
Sample : I8260STD120PPB Quant Date : 1/24/2024 6:58 am

Compound #37: Tetrahydrofuran



Original Peak Response = 287120



Manual Peak Response = 218241 M6

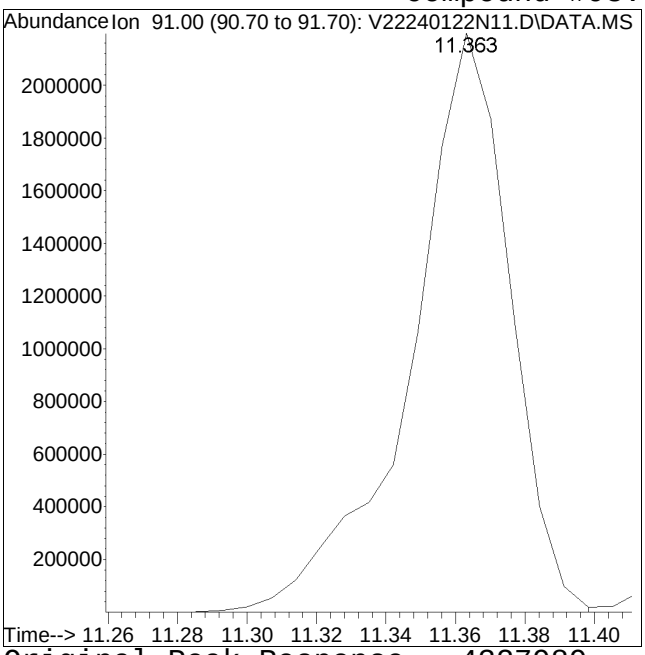
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

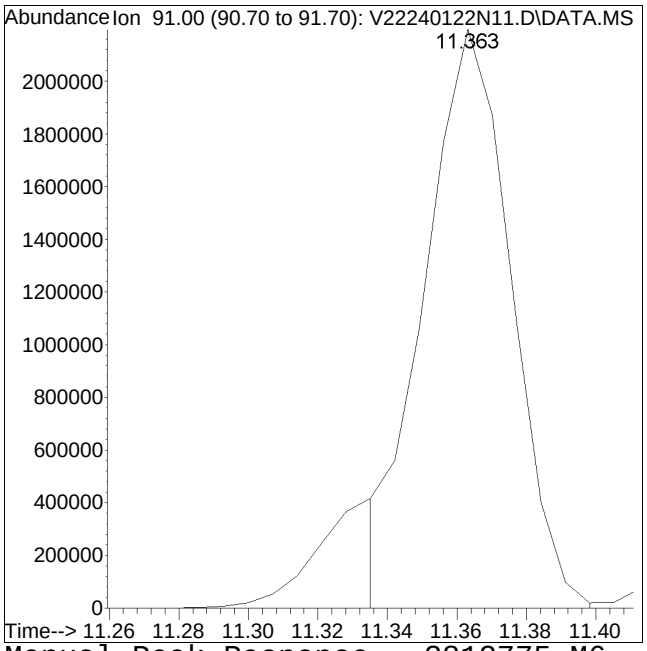
Data Path : K:\VOA122\2024\240122NICALQ
Data File : V22240122N11.D
Date Inj'd : 1/23/2024 2:01 am
Sample : I8260STD120PPB

Method : V122_240122N_8260.m
Operator : VOA122:PID
Instrument : VOA 122
Quant Date : 1/24/2024 6:58 am

Compound #93: 2-Chlorotoluene



Original Peak Response = 4327989



Manual Peak Response = 3812775 M6

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

Quantitation Report (QT Reviewed)

Data Path : K:\VOA122\2024\240122NICAL\
Data File : V22240122N12.D
Acq On : 23 Jan 2024 02:25 am
Operator : VOA122:PID
Sample : I8260STD200PPB
Misc : WG1877676,ICAL
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jan 24 06:58:57 2024
Quant Method : K:\VOA122\2024\240122NICAL\V122_240122N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jan 24 06:57:01 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA122\2024\240122NICAL\V22240122N08.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	5.996	96	789335	10.000	ug/L	0.00
Standard Area 1 = 652291			Recovery = 121.01%			
62) Chlorobenzene-d5	9.540	117	591785	10.000	ug/L	0.00
Standard Area 1 = 565944			Recovery = 104.57%			
83) 1,4-Dichlorobenzene-d4	12.250	152	288152	10.000	ug/L	0.00
Standard Area 1 = 285544			Recovery = 100.91%			
System Monitoring Compounds						
38) Dibromofluoromethane	5.184	113	250004	9.006	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 90.06%			
46) 1,2-Dichloroethane-d4	5.708	65	244058	9.575	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 95.75%			
63) Toluene-d8	7.696	98	748859	10.147	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 101.47%			
87) 4-Bromofluorobenzene	11.033	95	268664	10.142	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 101.42%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.631	85	2601358	202.189	ug/L #	96
3) Chloromethane	1.821	50	3542449	177.804	ug/L	98
4) Vinyl chloride	1.894	62	3104509	187.666	ug/L	99
5) Bromomethane	2.208	94	1707260	171.346	ug/L	98
6) Chloroethane	2.320	64	1578773	171.488	ug/L	98
7) Trichlorofluoromethane	2.464	101	3661005	206.514	ug/L	99
8) Ethyl ether	2.759	74	895349	199.647	ug/L #	1
10) 1,1-Dichloroethene	2.949	96	2197776	195.310	ug/L #	77
11) Carbon disulfide	2.982	76	6786624	186.293	ug/L	99
12) Freon-113	2.988	101	2329934	223.095	ug/L	96
13) Iodomethane	3.086	142	3959841	186.248	ug/L	93
14) Acrolein	3.257	56	249136	191.126	ug/L	98
15) Methylene chloride	3.493	84	2397346	172.555	ug/L #	70
17) Acetone	3.532	43	433511	155.148	ug/L	100
18) trans-1,2-Dichloroethene	3.650	96	2429790	190.111	ug/L	83
19) Methyl acetate	3.650	43	988119	196.491	ug/L #	89
21) Methyl tert-butyl ether	3.748	73	4466937	222.288	ug/L #	87
22) tert-Butyl alcohol	3.821	59	623439	1005.878	ug/L #	92
24) Diisopropyl ether	4.109	45	7613712	207.799	ug/L	94
25) 1,1-Dichloroethane	4.227	63	4923712	189.391	ug/L	97
26) Halothane	4.279	117	2062367	212.181	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : K:\VOA122\2024\240122NICAL\
Data File : V22240122N12.D
Acq On : 23 Jan 2024 02:25 am
Operator : VOA122:PID
Sample : I8260STD200PPB
Misc : WG1877676,ICAL
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jan 24 06:58:57 2024
Quant Method : K:\VOA122\2024\240122NICAL\V122_240122N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jan 24 06:57:01 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA122\2024\240122NICAL\V22240122N08.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
27) Acrylonitrile	4.266	53	523852	172.938	ug/L		93
28) Ethyl tert-butyl ether	4.456	59	6654174	222.593	ug/L		84
29) Vinyl acetate	4.463	43	2919955	203.393	ug/L	#	88
30) cis-1,2-Dichloroethene	4.745	96	2614989	182.781	ug/L	#	83
31) 2,2-Dichloropropane	4.849	77	3469395	193.560	ug/L		86
32) Bromochloromethane	4.935	128	1224073	186.643	ug/L	#	79
33) Cyclohexane	4.948	56	5328007	231.400	ug/L		73
34) Chloroform	5.007	83	4278479	187.479	ug/L		96
35) Ethyl acetate	5.118	43	1403368	225.709	ug/L	#	95
36) Carbon tetrachloride	5.151	117	3814926	217.615	ug/L		99
37) Tetrahydrofuran	5.151	42	384802M6	193.079	ug/L		
39) 1,1,1-Trichloroethane	5.210	97	4117900	204.786	ug/L		96
41) 2-Butanone	5.295	43	624695	212.207	ug/L	#	50
42) 1,1-Dichloropropene	5.334	75	3492307	228.894	ug/L		99
44) Benzene	5.577	78	9327590	201.661	ug/L	#	89
45) tert-Amyl methyl ether	5.695	73	4139676	215.325	ug/L		93
47) 1,2-Dichloroethane	5.780	62	2468328	196.387	ug/L		98
50) Methyl cyclohexane	6.173	83	3710919	240.817	ug/L	#	70
51) Trichloroethene	6.173	95	2308146	214.695	ug/L		100
53) Dibromomethane	6.611	93	1048749	189.727	ug/L	#	83
54) 1,2-Dichloropropane	6.716	63	2238889	214.341	ug/L		96
56) 2-Chloroethyl vinyl ether	7.418	63	913841	221.271	ug/L	#	86
57) Bromodichloromethane	6.785	83	2743808	202.822	ug/L		100
60) 1,4-Dioxane	6.994	88	113463	1785.601	ug/L	#	64
61) cis-1,3-Dichloropropene	7.480	75	3106563	219.850	ug/L	#	86
64) Toluene	7.751	92	4754071	208.084	ug/L		94
65) 4-Methyl-2-pentanone	8.182	58	360928	207.134	ug/L	#	84
66) Tetrachloroethene	8.203	166	2206773	227.911	ug/L		94
68) trans-1,3-Dichloropropene	8.231	75	2515489	240.283	ug/L		88
70) Ethyl methacrylate	8.432	69	1327770	183.535	ug/L		82
71) 1,1,2-Trichloroethane	8.418	83	1182564	225.616	ug/L		99
72) Chlorodibromomethane	8.628	129	1940039	231.573	ug/L		100
73) 1,3-Dichloropropane	8.740	76	2320117	230.624	ug/L		99
74) 1,2-Dibromoethane	8.902	107	1364214	227.122	ug/L		99
76) 2-Hexanone	9.196	43	622850	198.178	ug/L		94
77) Chlorobenzene	9.561	112	5375992	203.058	ug/L		91
78) Ethylbenzene	9.610	91	8861657	199.745	ug/L		97
79) 1,1,1,2-Tetrachloroethane	9.645	131	2052230	230.062	ug/L		97
80) p/m Xylene	9.799	106	6977354	396.450	ug/L		92
81) o Xylene	10.339	106	6668345	393.298	ug/L		92

Data Path : K:\VOA122\2024\240122NICAL\
Data File : V22240122N12.D
Acq On : 23 Jan 2024 02:25 am
Operator : VOA122:PID
Sample : I8260STD200PPB
Misc : WG1877676,ICAL
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jan 24 06:58:57 2024
Quant Method : K:\VOA122\2024\240122NICAL\V122_240122N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jan 24 06:57:01 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA122\2024\240122NICAL\V22240122N08.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
82) Styrene	10.402	104	10223241	374.222	ug/L		92
84) Bromoform	10.416	173	958181	228.776	ug/L		99
86) Isopropylbenzene	10.725	105	9056056	208.060	ug/L		97
88) Bromobenzene	11.146	156	2144629	207.279	ug/L		99
89) n-Propylbenzene	11.202	91	9980661	201.455	ug/L		95
90) 1,4-Dichlorobutane	11.209	55	2130119	208.635	ug/L		98
91) 1,1,2,2-Tetrachloroethane	11.279	83	1214705	207.851	ug/L		99
92) 4-Ethyltoluene	11.335	105	8715760	202.854	ug/L		95
93) 2-Chlorotoluene	11.363	91	5917371M6	199.840	ug/L		
94) 1,3,5-Trimethylbenzene	11.433	105	7396255	205.217	ug/L		97
95) 1,2,3-Trichloropropane	11.419	75	1041534	217.005	ug/L		98
96) trans-1,4-Dichloro-2-b...	11.475	53	452288	206.053	ug/L		84
97) 4-Chlorotoluene	11.552	91	6386159	202.285	ug/L		97
98) tert-Butylbenzene	11.770	119	7721785	208.793	ug/L		97
101) 1,2,4-Trimethylbenzene	11.847	105	8219439	203.735	ug/L		99
102) sec-Butylbenzene	11.965	105	9009163	206.069	ug/L		96
103) p-Isopropyltoluene	12.118	119	7923879	202.498	ug/L		96
104) 1,3-Dichlorobenzene	12.174	146	4145408	200.341	ug/L		97
105) 1,4-Dichlorobenzene	12.264	146	4086648	201.394	ug/L		97
106) p-Diethylbenzene	12.494	119	4981472	212.588	ug/L		99
107) n-Butylbenzene	12.550	91	6419366	211.214	ug/L		96
108) 1,2-Dichlorobenzene	12.689	146	3688910	201.300	ug/L		96
109) 1,2,4,5-Tetramethylben...	13.288	119	6783868	210.737	ug/L		97
110) 1,2-Dibromo-3-chloropr...	13.469	155	240932	202.322	ug/L		100
111) 1,3,5-Trichlorobenzene	13.503	180	2549509	206.694	ug/L		95
112) Hexachlorobutadiene	14.088	225	889571	220.480	ug/L		99
113) 1,2,4-Trichlorobenzene	14.102	180	2183723	201.569	ug/L	#	97
114) Naphthalene	14.401	128	4870572	193.125	ug/L		100
115) 1,2,3-Trichlorobenzene	14.568	180	1848558	198.252	ug/L	#	97

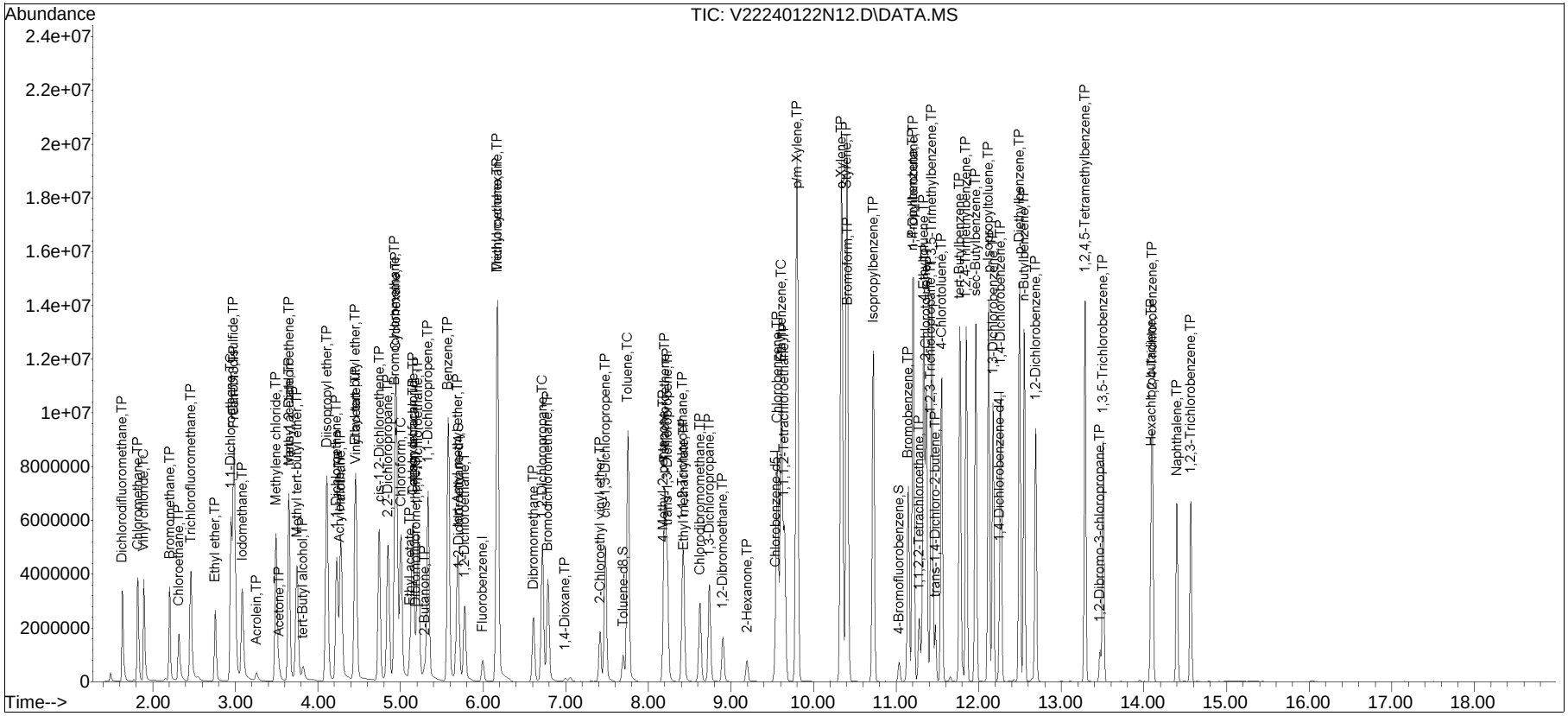
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : K:\VOA122\2024\240122NICAL\
Data File : V22240122N12.D
Acq On : 23 Jan 2024 02:25 am
Operator : VOA122:PID
Sample : I8260STD200PPB
Misc : WG1877676,ICAL
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jan 24 06:58:57 2024
Quant Method : K:\VOA122\2024\240122NICAL\V122_240122N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jan 24 06:57:01 2024
Response via : Initial Calibration

Sub List : 8260-Curve - Megamix plus Diox\V22240122N08.D•

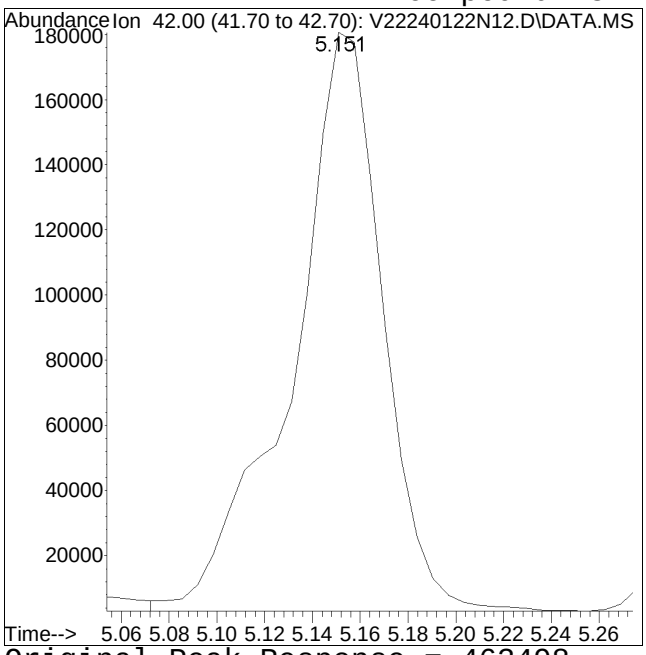


Manual Integration Report

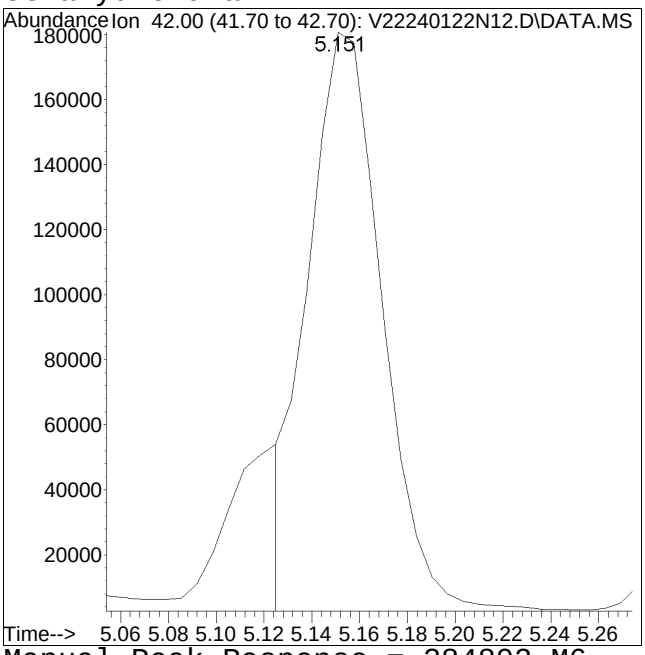
Data Path : K:\VOA122\2024\240122NICALQ
Data File : V22240122N12.D
Date Inj'd : 1/23/2024 2:25 am
Sample : I8260STD200PPB

Method : V122_240122N_8260.m
Operator : VOA122:PID
Instrument : VOA 122
Quant Date : 1/24/2024 6:58 am

Compound #37: Tetrahydrofuran



Original Peak Response = 463498



Manual Peak Response = 384802 M6

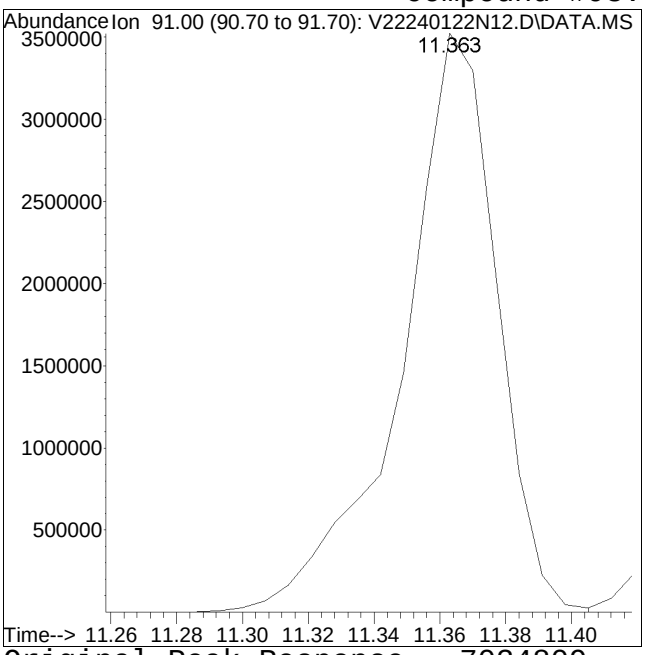
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

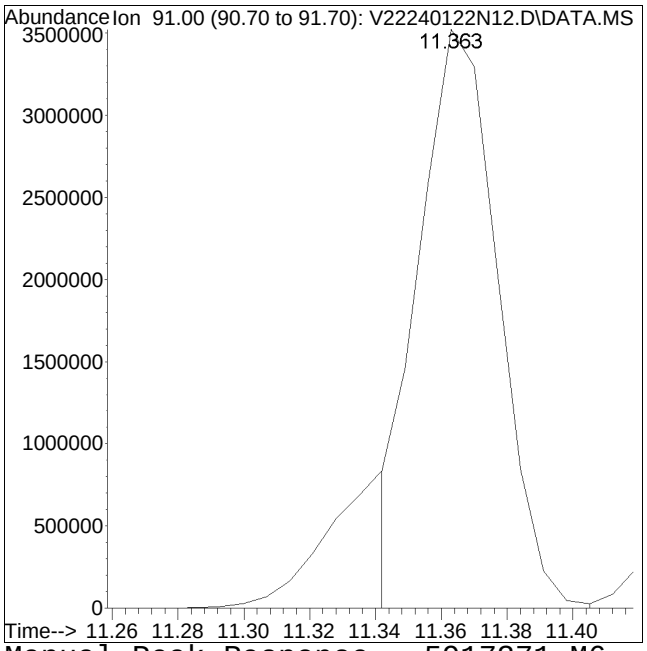
Data Path : K:\VOA122\2024\240122NICALQ
Data File : V22240122N12.D
Date Inj'd : 1/23/2024 2:25 am
Sample : I8260STD200PPB

Method : V122_240122N_8260.m
Operator : VOA122:PID
Instrument : VOA 122
Quant Date : 1/24/2024 6:58 am

Compound #93: 2-Chlorotoluene



Original Peak Response = 7034809



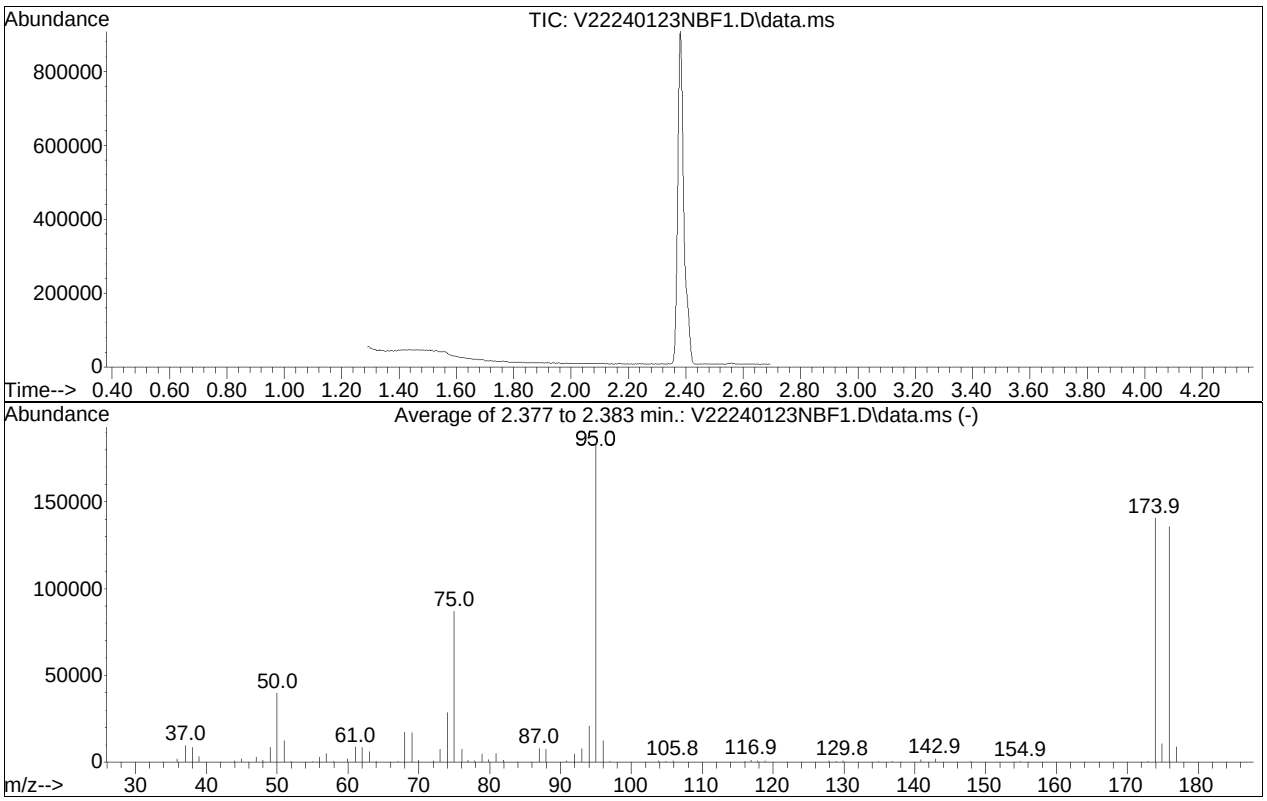
Manual Peak Response = 5917371 M6

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

Data Path : K:\VOA122\2024\240122NICAL\
Data File : V22240123NBF1.D
Acq On : 23 Jan 2024 08:59 pm
Operator : VOA122:MAG
Sample : WG1877676-2
Misc : WG1877676
ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : K:\VOA122\2024\240122NICAL\V122_240122N_8260.m
Title : VOLATILES BY GC/MS
Last Update : Wed Jan 24 07:06:18 2024



AutoFind: Scans 391, 392, 393; Background Corrected with Scan 378

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	21.7	39976	PASS
75	95	30	60	47.3	87048	PASS
95	95	100	100	100.0	184177	PASS
96	95	5	9	6.8	12511	PASS
173	174	0.00	2	0.3	357	PASS
174	95	50	100	76.4	140672	PASS
175	174	5	9	7.6	10667	PASS
176	174	95	101	96.4	135648	PASS
177	176	5	9	6.5	8857	PASS

Quantitation Report (QT Reviewed)

Data Path : K:\VOA122\2024\240122NICAL\
Data File : V22240123N03.D
Acq On : 23 Jan 2024 10:06 pm
Operator : VOA122:PID
Sample : I8260STD0.5PPB
Misc : WG1877676,ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jan 24 06:59:08 2024
Quant Method : K:\VOA122\2024\240122NICAL\V122_240122N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jan 24 06:57:01 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA122\2024\240122NICAL\V22240122N08.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	5.996	96	571818	10.000	ug/L	0.00
Standard Area 1 = 652291			Recovery = 87.66%			
62) Chlorobenzene-d5	9.540	117	539991	10.000	ug/L	0.00
Standard Area 1 = 565944			Recovery = 95.41%			
83) 1,4-Dichlorobenzene-d4	12.250	152	281375	10.000	ug/L	0.00
Standard Area 1 = 285544			Recovery = 98.54%			
System Monitoring Compounds						
38) Dibromofluoromethane	5.177	113	223321	11.105	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 111.05%			
46) 1,2-Dichloroethane-d4	5.708	65	197970	10.721	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 107.21%			
63) Toluene-d8	7.696	98	665031	9.875	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 98.75%			
87) 4-Bromofluorobenzene	11.033	95	254837	9.851	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 98.51%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.631	85	4703	0.505	ug/L #	95
3) Chloromethane	1.821	50	7491	0.519	ug/L	89
4) Vinyl chloride	1.894	62	5712	0.477	ug/L	97
5) Bromomethane	2.208	94	4335M6	0.601	ug/L	
6) Chloroethane	2.320	64	3844	0.576	ug/L #	55
7) Trichlorofluoromethane	2.457	101	6420	0.500	ug/L	97
8) Ethyl ether	2.752	74	1595	0.491	ug/L #	1
10) 1,1-Dichloroethene	2.949	96	4408	0.541	ug/L	90
11) Carbon disulfide	2.975	76	13859	0.525	ug/L	98
12) Freon-113	2.981	101	3736	0.494	ug/L #	88
13) Iodomethane	3.086	142	8750	0.568	ug/L	94
14) Acrolein	0.000		0	N.D.	d	
15) Methylene chloride	3.493	84	5771	0.573	ug/L #	73
17) Acetone	3.532	43	1976	0.976	ug/L	98
18) trans-1,2-Dichloroethene	3.643	96	4873	0.526	ug/L	91
19) Methyl acetate	3.650	43	1851M6	0.508	ug/L	
21) Methyl tert-butyl ether	3.742	73	5881	0.404	ug/L #	68
22) tert-Butyl alcohol	0.000		0	N.D.	d	
24) Diisopropyl ether	4.109	45	11833	0.446	ug/L	93
25) 1,1-Dichloroethane	4.227	63	8931	0.474	ug/L	96
26) Halothane	4.273	117	3225	0.458	ug/L	97

Data Path : K:\VOA122\2024\240122NICAL\
Data File : V22240123N03.D
Acq On : 23 Jan 2024 10:06 pm
Operator : VOA122:PID
Sample : I8260STD0.5PPB
Misc : WG1877676,ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jan 24 06:59:08 2024
Quant Method : K:\VOA122\2024\240122NICAL\V122_240122N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jan 24 06:57:01 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA122\2024\240122NICAL\V22240122N08.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
27) Acrylonitrile	4.266	53	1552	0.707	ug/L	#	72
28) Ethyl tert-butyl ether	4.456	59	8691	0.401	ug/L		87
29) Vinyl acetate	4.463	43	5515M6	0.530	ug/L		
30) cis-1,2-Dichloroethene	4.738	96	5738	0.554	ug/L		96
31) 2,2-Dichloropropane	4.843	77	6587	0.507	ug/L		81
32) Bromochloromethane	4.935	128	1862M6	0.392	ug/L		
33) Cyclohexane	4.941	56	7647	0.458	ug/L		77
34) Chloroform	5.000	83	8670	0.524	ug/L		97
35) Ethyl acetate	5.118	43	1587M6	0.352	ug/L		
36) Carbon tetrachloride	5.144	117	5421	0.427	ug/L	#	89
37) Tetrahydrofuran	0.000		0	N.D.	d		
39) 1,1,1-Trichloroethane	5.210	97	7033	0.483	ug/L		94
41) 2-Butanone	0.000		0	N.D.	d		
42) 1,1-Dichloropropene	5.334	75	4186	0.379	ug/L		93
44) Benzene	5.577	78	13352	0.398	ug/L	#	87
45) tert-Amyl methyl ether	5.695	73	6382	0.458	ug/L		93
47) 1,2-Dichloroethane	5.773	62	4518	0.496	ug/L		94
50) Methyl cyclohexane	6.166	83	5592	0.501	ug/L	#	73
51) Trichloroethene	6.166	95	3710	0.476	ug/L	#	83
53) Dibromomethane	6.604	93	2096	0.523	ug/L	#	80
54) 1,2-Dichloropropane	6.716	63	2969	0.392	ug/L	#	92
56) 2-Chloroethyl vinyl ether	7.411	63	914	0.305	ug/L	#	52
57) Bromodichloromethane	6.785	83	4725	0.482	ug/L	#	93
60) 1,4-Dioxane	6.994	88	4841	105.164	ug/L	#	55
61) cis-1,3-Dichloropropene	7.480	75	3867	0.378	ug/L	#	81
64) Toluene	7.751	92	8568	0.411	ug/L		98
65) 4-Methyl-2-pentanone	8.182	58	580M6	0.365	ug/L		
66) Tetrachloroethene	8.196	166	3609	0.408	ug/L		94
68) trans-1,3-Dichloropropene	8.231	75	3577	0.374	ug/L		81
70) Ethyl methacrylate	8.425	69	4160	0.630	ug/L	#	71
71) 1,1,2-Trichloroethane	8.418	83	2125	0.444	ug/L		95
72) Chlorodibromomethane	8.621	129	2789	0.365	ug/L		97
73) 1,3-Dichloropropane	8.733	76	3216	0.350	ug/L		96
74) 1,2-Dibromoethane	8.901	107	2034	0.371	ug/L		89
76) 2-Hexanone	9.189	43	1237M6	0.431	ug/L		
77) Chlorobenzene	9.561	112	10626	0.440	ug/L	#	75
78) Ethylbenzene	9.603	91	17413	0.430	ug/L		100
79) 1,1,1,2-Tetrachloroethane	9.645	131	3066	0.377	ug/L	#	64
80) p/m Xylene	9.792	106	14168	0.882	ug/L		99
81) o Xylene	10.339	106	13597	0.879	ug/L		99

Quantitation Report (QT Reviewed)

Data Path : K:\VOA122\2024\240122NICAL\
Data File : V22240123N03.D
Acq On : 23 Jan 2024 10:06 pm
Operator : VOA122:PID
Sample : I8260STD0.5PPB
Misc : WG1877676,ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jan 24 06:59:08 2024
Quant Method : K:\VOA122\2024\240122NICAL\V122_240122N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jan 24 06:57:01 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA122\2024\240122NICAL\V22240122N08.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
82) Styrene	10.402	104	22149	0.889	ug/L		96
84) Bromoform	10.409	173	1610	0.394	ug/L		91
86) Isopropylbenzene	10.725	105	17940	0.422	ug/L		100
88) Bromobenzene	11.146	156	4397	0.435	ug/L		97
89) n-Propylbenzene	11.202	91	21326	0.441	ug/L		98
90) 1,4-Dichlorobutane	11.209	55	4485M6	0.450	ug/L		
91) 1,1,2,2-Tetrachloroethane	11.279	83	2933	0.514	ug/L		94
92) 4-Ethyltoluene	11.328	105	17967	0.428	ug/L		96
93) 2-Chlorotoluene	11.363	91	12786M6	0.442	ug/L		
94) 1,3,5-Trimethylbenzene	11.426	105	14224	0.404	ug/L		99
95) 1,2,3-Trichloropropane	11.419	75	2015	0.430	ug/L		93
96) trans-1,4-Dichloro-2-b...	11.475	53	1115	0.520	ug/L	#	57
97) 4-Chlorotoluene	11.545	91	13852	0.449	ug/L		99
98) tert-Butylbenzene	11.770	119	16187	0.448	ug/L		97
101) 1,2,4-Trimethylbenzene	11.847	105	15657	0.397	ug/L		100
102) sec-Butylbenzene	11.958	105	18964	0.444	ug/L		98
103) p-Isopropyltoluene	12.118	119	16130	0.422	ug/L		97
104) 1,3-Dichlorobenzene	12.174	146	9320	0.461	ug/L		95
105) 1,4-Dichlorobenzene	12.264	146	8975M3	0.453	ug/L		
106) p-Diethylbenzene	12.487	119	8878	0.388	ug/L		97
107) n-Butylbenzene	12.550	91	11500	0.387	ug/L		98
108) 1,2-Dichlorobenzene	12.689	146	8024	0.448	ug/L		95
109) 1,2,4,5-Tetramethylben...	13.280	119	12948	0.412	ug/L		96
110) 1,2-Dibromo-3-chloropr...	13.468	155	513	0.441	ug/L		84
111) 1,3,5-Trichlorobenzene	13.503	180	5119	0.425	ug/L		93
112) Hexachlorobutadiene	14.081	225	1869	0.474	ug/L		92
113) 1,2,4-Trichlorobenzene	14.102	180	4889	0.462	ug/L		97
114) Naphthalene	14.394	128	11597	0.471	ug/L		100
115) 1,2,3-Trichlorobenzene	14.561	180	4086	0.449	ug/L		91

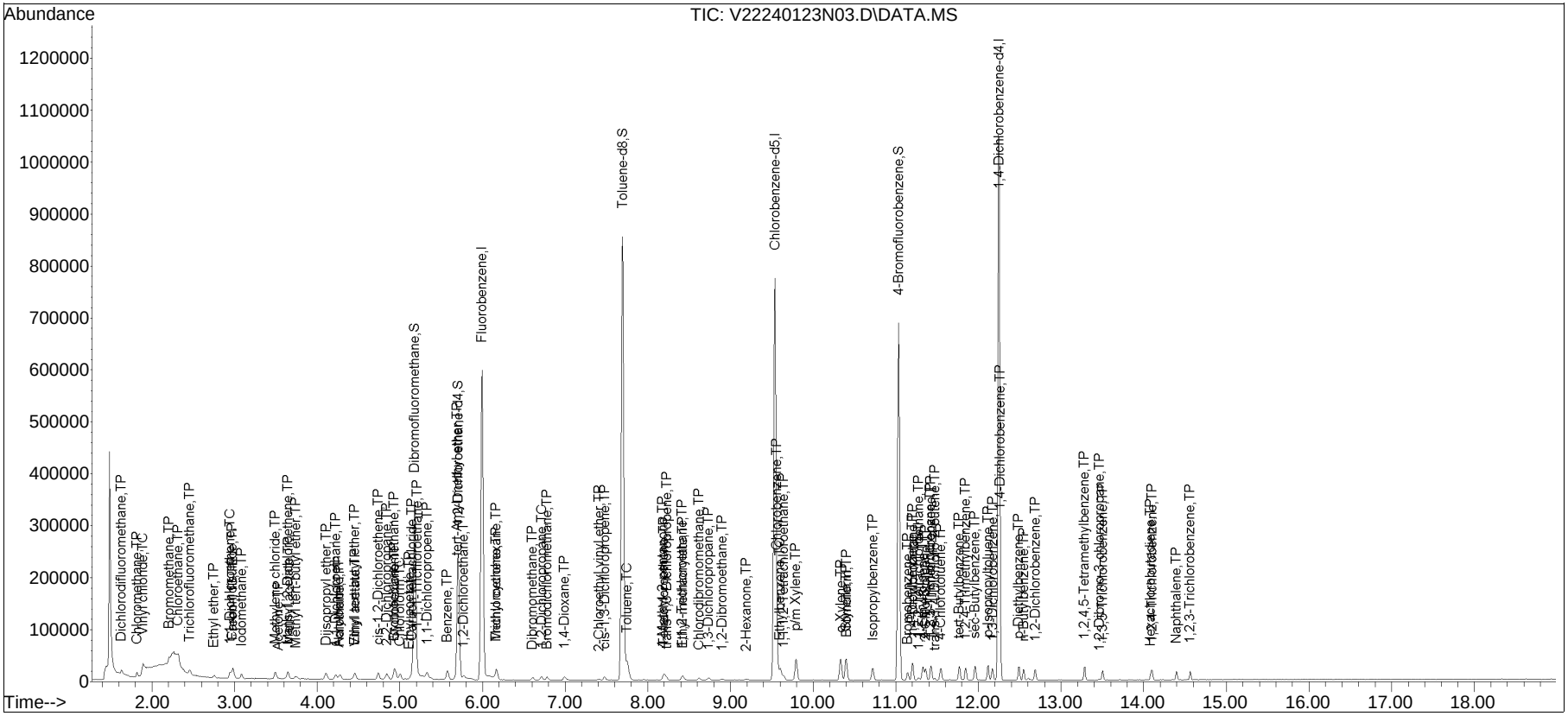
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : K:\VOA122\2024\240122NICAL\
Data File : V22240123N03.D
Acq On : 23 Jan 2024 10:06 pm
Operator : VOA122:PID
Sample : I8260STD0.5PPB
Misc : WG1877676,ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jan 24 06:59:08 2024
Quant Method : K:\VOA122\2024\240122NICAL\V122_240122N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jan 24 06:57:01 2024
Response via : Initial Calibration

Sub List : 8260-Curve - Megamix plus Diox\V22240122N08.D•

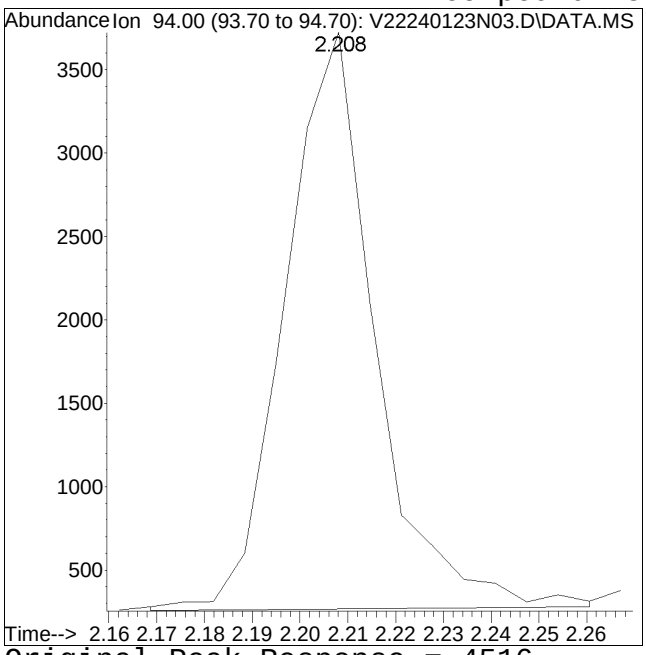


Manual Integration Report

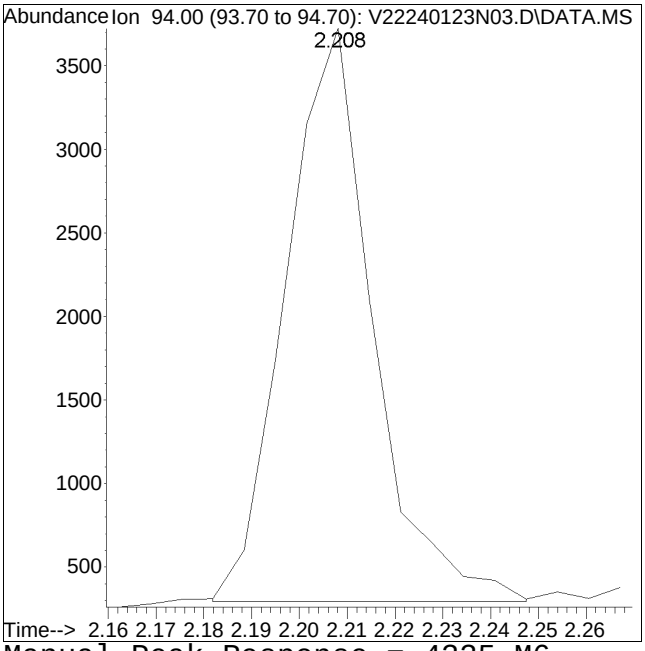
Data Path : K:\VOA122\2024\240122NICALQ
Data File : V22240123N03.D
Date Inj'd : 1/23/2024 10:06 pm
Sample : I8260STD0.5PPB

Method : V122_240122N_8260.m
Operator : VOA122:PID
Instrument : VOA 122
Quant Date : 1/24/2024 6:59 am

Compound #5: Bromomethane



Original Peak Response = 4516



Manual Peak Response = 4335 M6

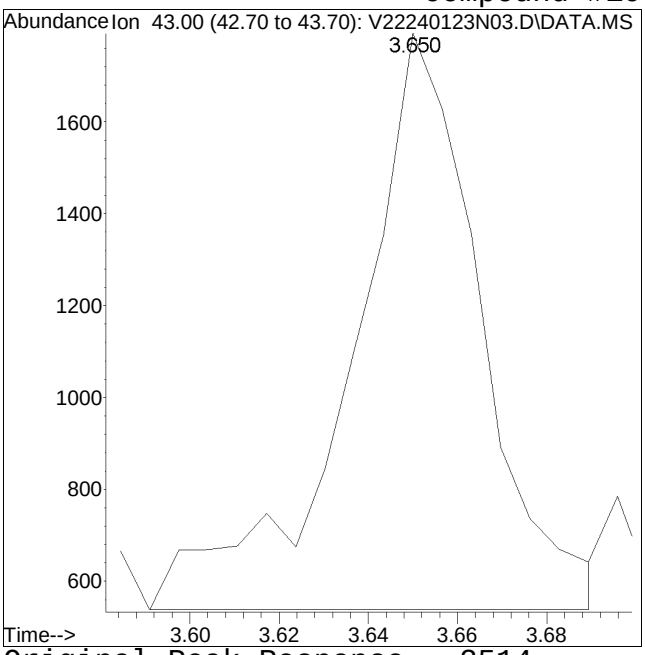
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

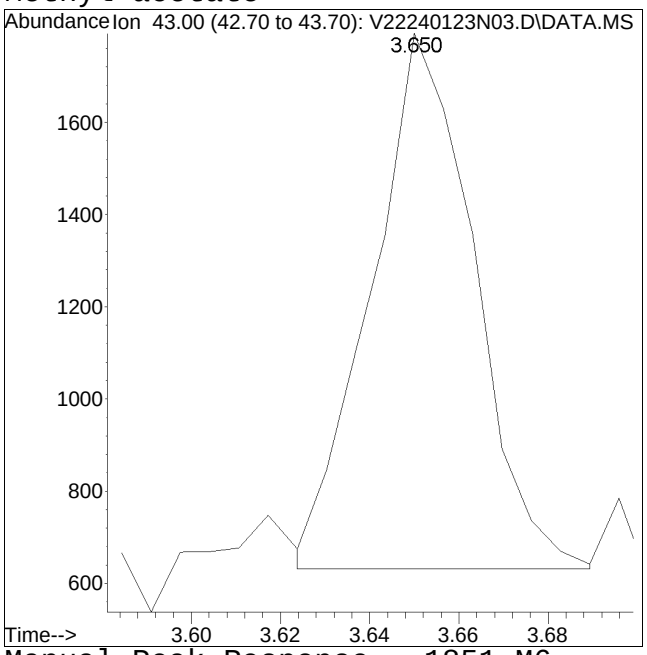
Data Path : K:\VOA122\2024\240122NICALQ
Data File : V22240123N03.D
Date Inj'd : 1/23/2024 10:06 pm
Sample : I8260STD0.5PPB

Method : V122_240122N_8260.m
Operator : VOA122:PID
Instrument : VOA 122
Quant Date : 1/24/2024 6:59 am

Compound #19: Methyl acetate



Original Peak Response = 2514



Manual Peak Response = 1851 M6

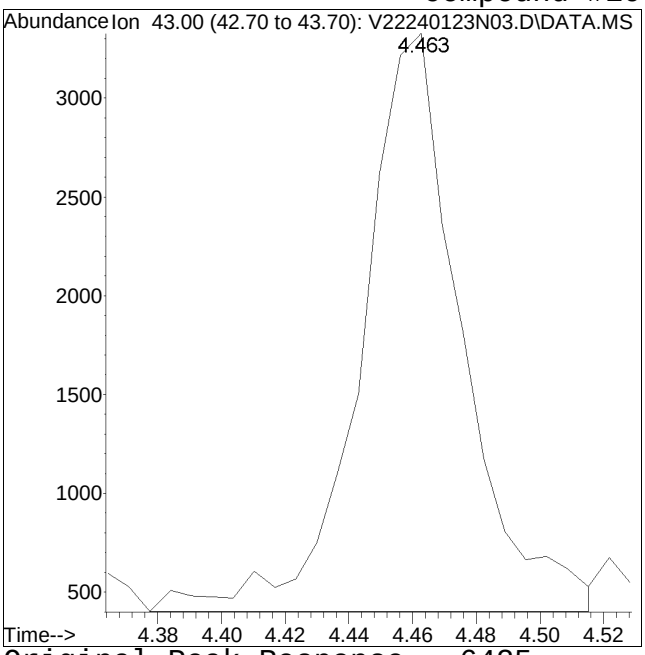
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

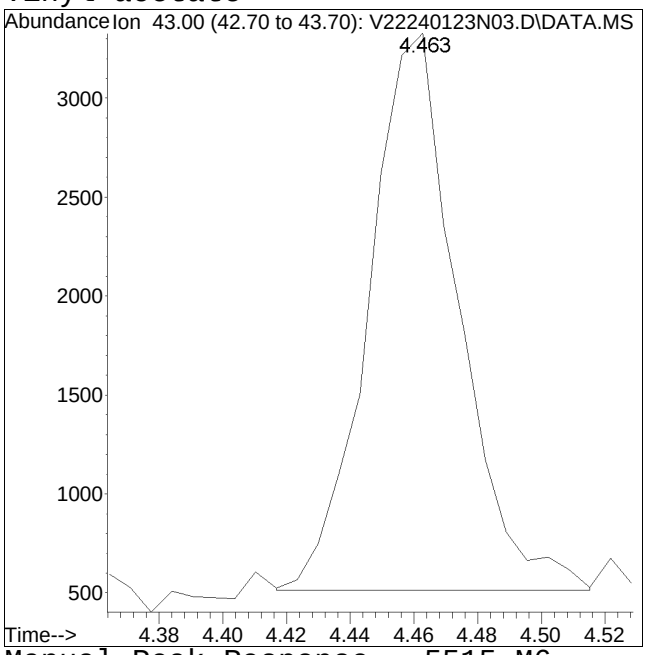
Data Path : K:\VOA122\2024\240122NICALQ
Data File : V22240123N03.D
Date Inj'd : 1/23/2024 10:06 pm
Sample : I8260STD0.5PPB

Method : V122_240122N_8260.m
Operator : VOA122:PID
Instrument : VOA 122
Quant Date : 1/24/2024 6:59 am

Compound #29: Vinyl acetate



Original Peak Response = 6425



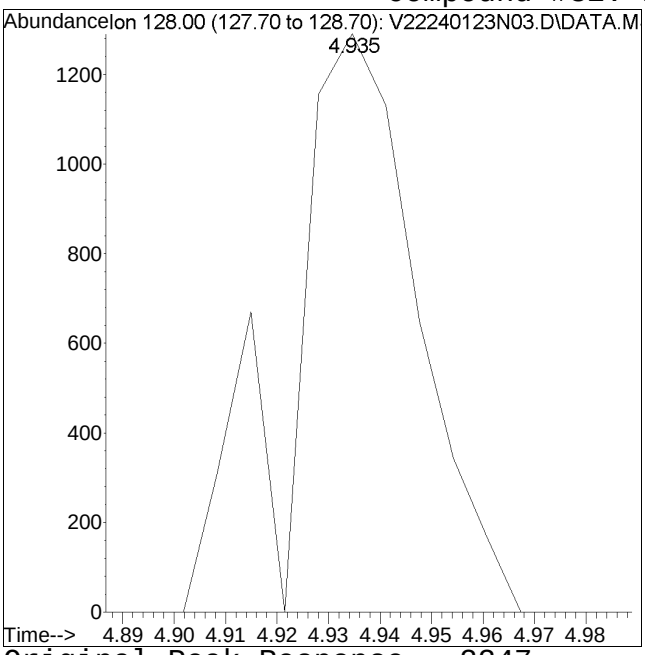
Manual Peak Response = 5515 M6

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

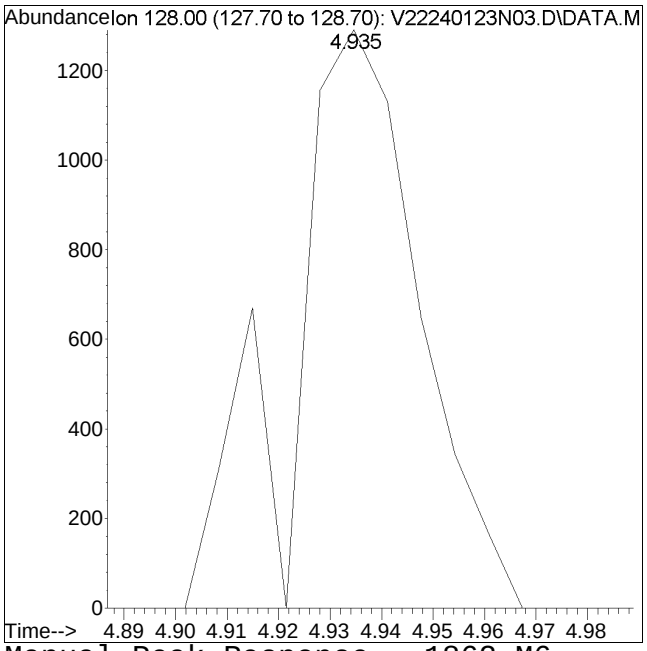
Manual Integration Report

Data Path : K:\VOA122\2024\240122NICALQMethod : V122_240122N_8260.m
Data File : V22240123N03.D Operator : VOA122:PID
Date Inj'd : 1/23/2024 10:06 pm Instrument : VOA 122
Sample : I8260STD0.5PPB Quant Date : 1/24/2024 6:59 am

Compound #32: Bromochloromethane



Original Peak Response = 2247



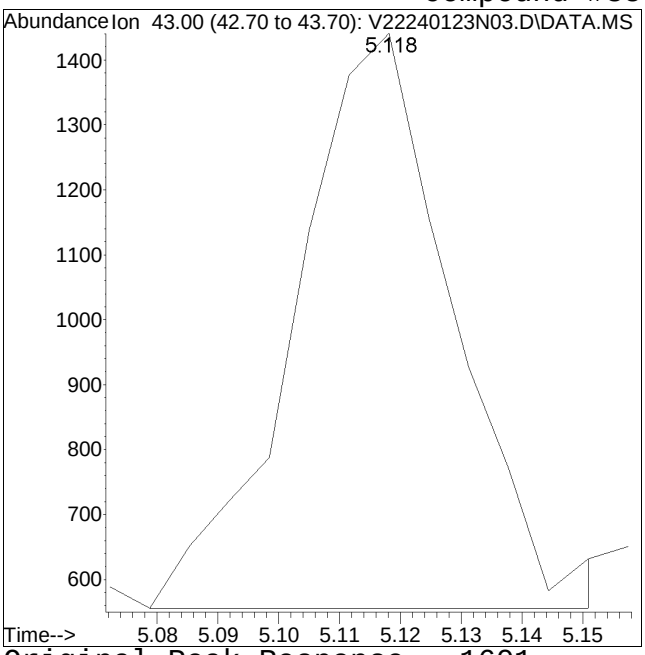
Manual Peak Response = 1862 M6

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

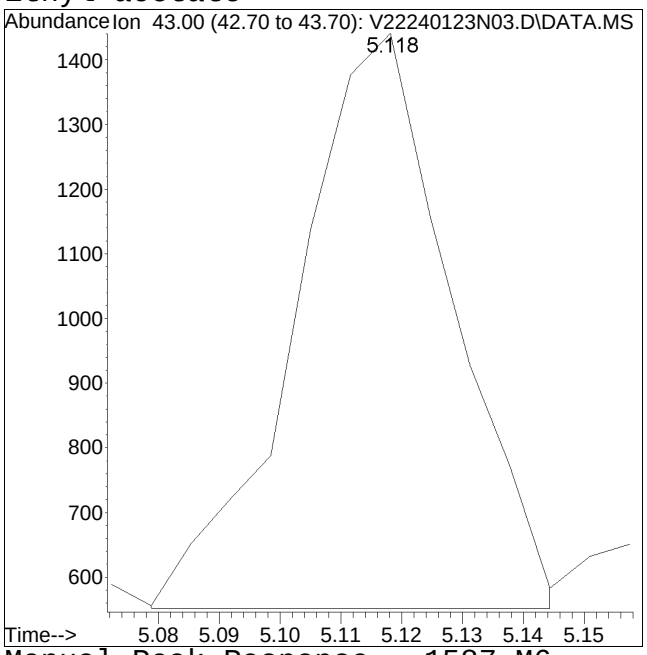
Manual Integration Report

Data Path : K:\VOA122\2024\240122NICALQMethod : V122_240122N_8260.m
Data File : V22240123N03.D Operator : VOA122:PID
Date Inj'd : 1/23/2024 10:06 pm Instrument : VOA 122
Sample : I8260STD0.5PPB Quant Date : 1/24/2024 6:59 am

Compound #35: Ethyl acetate



Original Peak Response = 1601



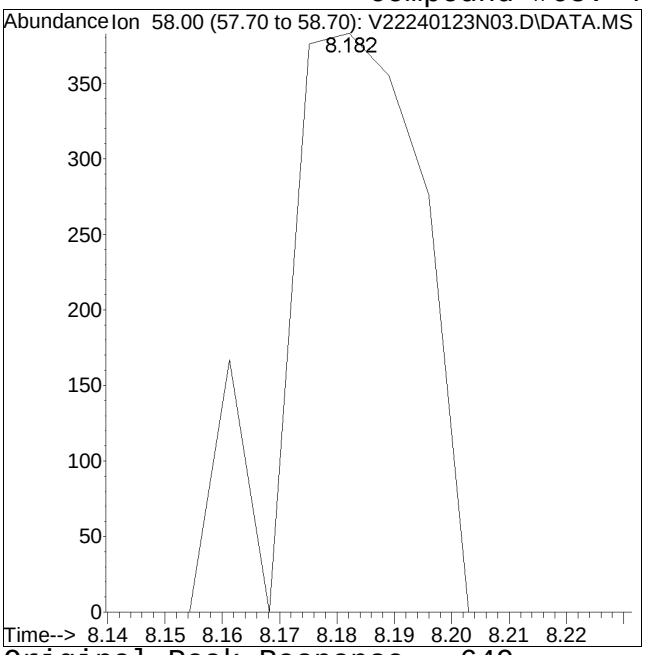
Manual Peak Response = 1587 M6

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

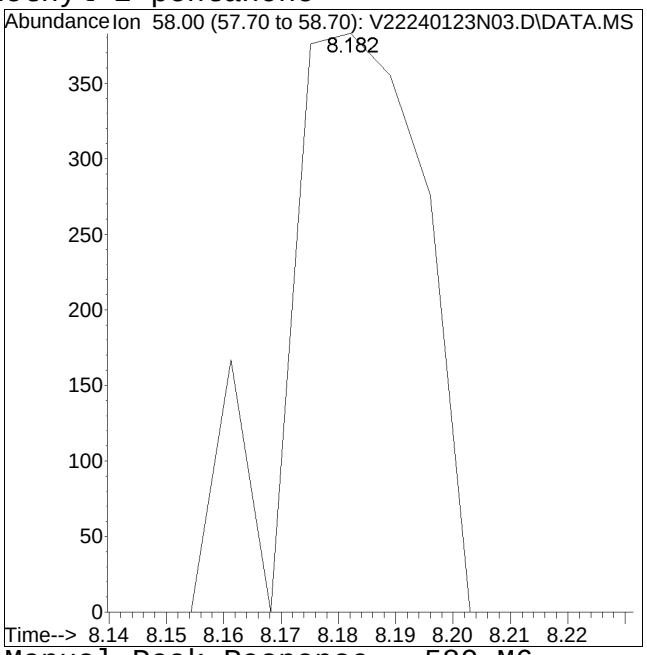
Manual Integration Report

Data Path : K:\VOA122\2024\240122NICALQMethod : V122_240122N_8260.m
Data File : V22240123N03.D Operator : VOA122:PID
Date Inj'd : 1/23/2024 10:06 pm Instrument : VOA 122
Sample : I8260STD0.5PPB Quant Date : 1/24/2024 6:59 am

Compound #65: 4-Methyl-2-pentanone



Original Peak Response = 649



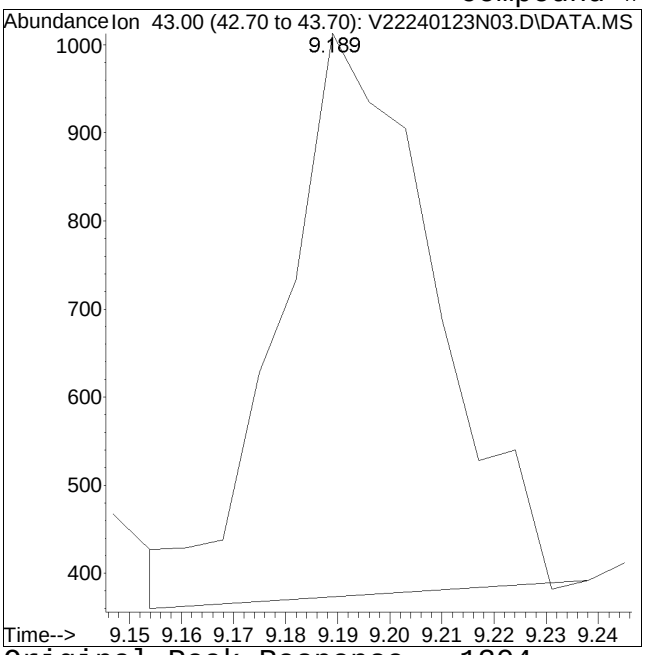
Manual Peak Response = 580 M6

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

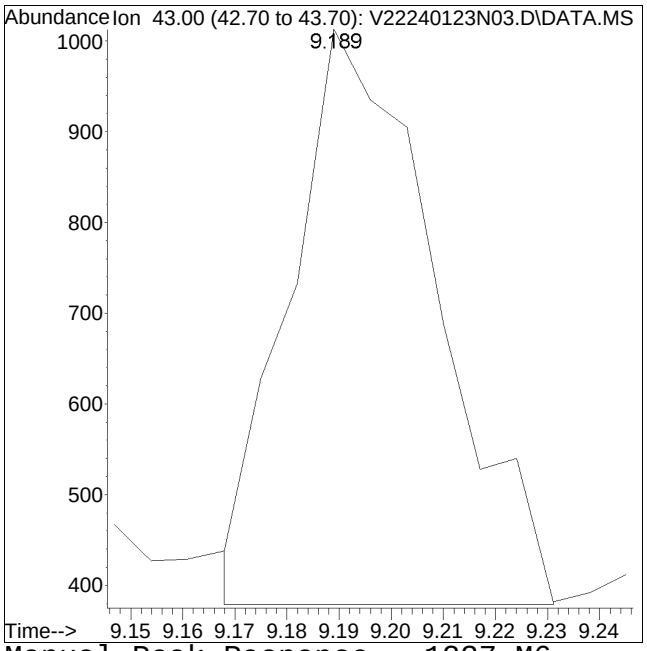
Manual Integration Report

Data Path : K:\VOA122\2024\240122NICALQMethod : V122_240122N_8260.m
Data File : V22240123N03.D Operator : VOA122:PID
Date Inj'd : 1/23/2024 10:06 pm Instrument : VOA 122
Sample : I8260STD0.5PPB Quant Date : 1/24/2024 6:59 am

Compound #76: 2-Hexanone



Original Peak Response = 1304



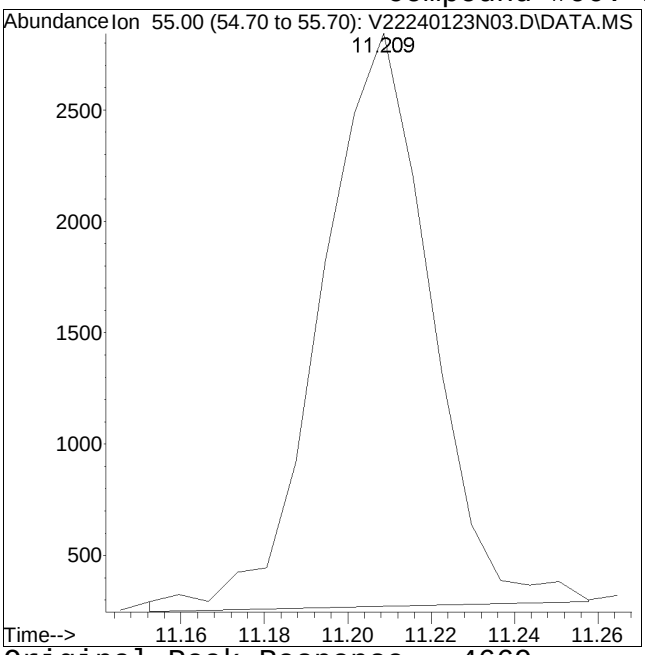
Manual Peak Response = 1237 M6

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

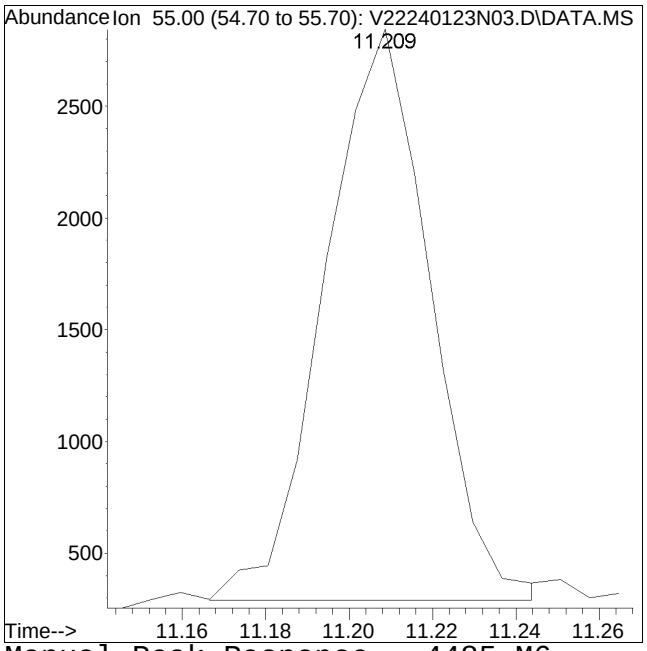
Manual Integration Report

Data Path : K:\VOA122\2024\240122NICALQMethod : V122_240122N_8260.m
Data File : V22240123N03.D Operator : VOA122:PID
Date Inj'd : 1/23/2024 10:06 pm Instrument : VOA 122
Sample : I8260STD0.5PPB Quant Date : 1/24/2024 6:59 am

Compound #90: 1,4-Dichlorobutane



Original Peak Response = 4669



Manual Peak Response = 4485 M6

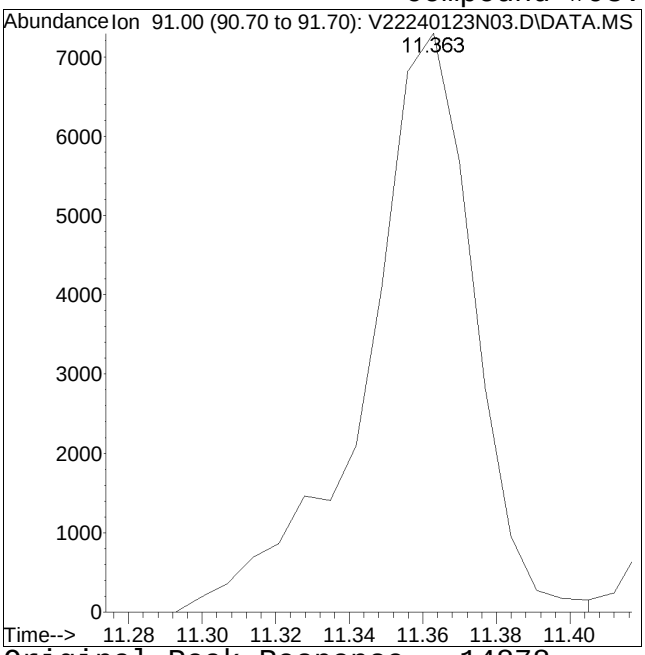
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

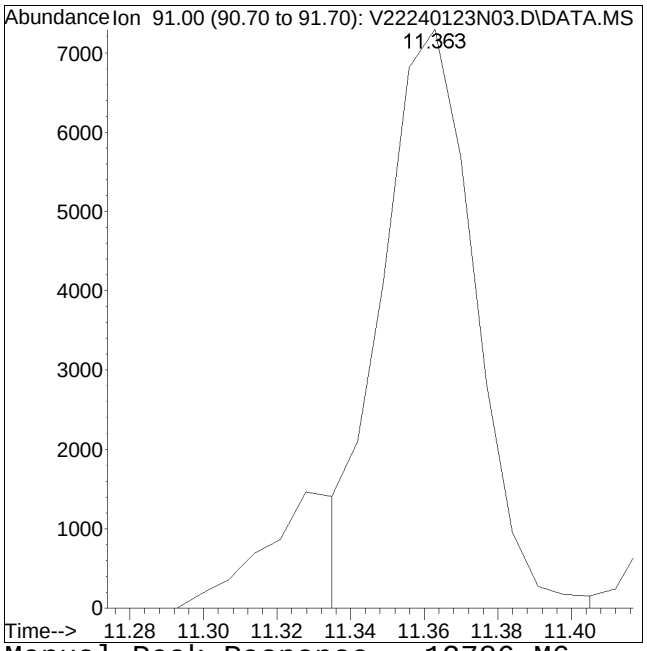
Data Path : K:\VOA122\2024\240122NICALQ
Data File : V22240123N03.D
Date Inj'd : 1/23/2024 10:06 pm
Sample : I8260STD0.5PPB

Method : V122_240122N_8260.m
Operator : VOA122:PID
Instrument : VOA 122
Quant Date : 1/24/2024 6:59 am

Compound #93: 2-Chlorotoluene



Original Peak Response = 14878



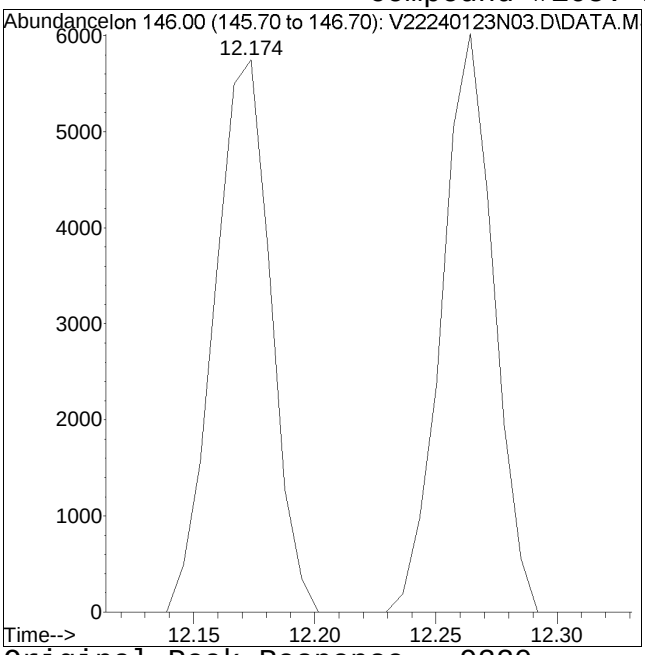
Manual Peak Response = 12786 M6

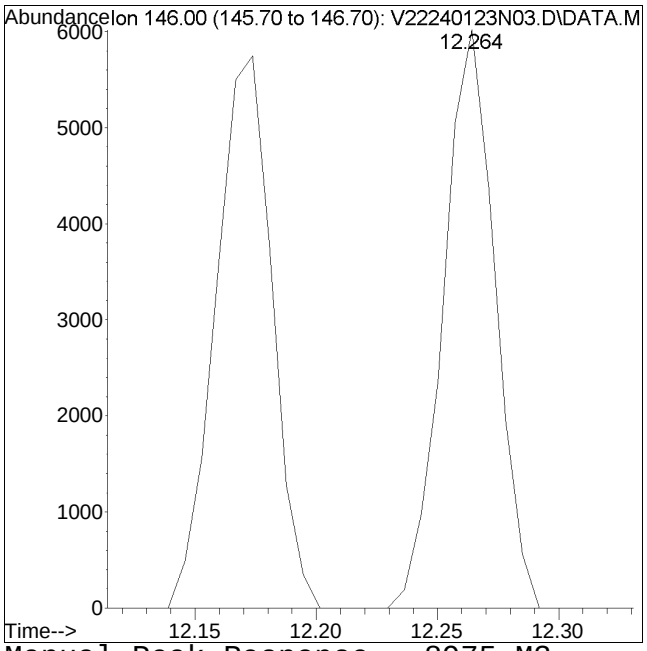
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

Data Path : K:\VOA122\2024\240122NICALQMethod : V122_240122N_8260.m
Data File : V22240123N03.D Operator : VOA122:PID
Date Inj'd : 1/23/2024 10:06 pm Instrument : VOA 122
Sample : I8260STD0.5PPB Quant Date : 1/24/2024 6:59 am

Compound #105: 1,4-Dichlorobenzene





Original Peak Response = 9320 Manual Peak Response = 8975 M3

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

Evaluate Continuing Calibration Report

Data Path : K:\VOA122\2024\240122NICAL\
Data File : V22240123N06.D
Acq On : 23 Jan 2024 11:19 pm
Operator : VOA122:PID
Sample : C8260STD10PPB
Misc : WG1877676,ICAL
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jan 24 07:07:49 2024
Quant Method : K:\VOA122\2024\240122NICAL\V122_240122N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jan 24 07:06:18 2024
Response via : Initial Calibration

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

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Fluorobenzene	1.000	1.000	0.0	97	0.00
2	TP	Dichlorodifluoromethane	0.163	0.169	-3.7	109	0.00
3	TP	Chloromethane	0.252	0.250	0.8	92	0.00
4	TC	Vinyl chloride	0.210	0.214	-1.9	103	0.00
5	TP	Bromomethane	0.126	0.129	-2.4	94	0.00
6	TP	Chloroethane	0.117	0.120	-2.6	99	0.00
7	TP	Trichlorofluoromethane	0.225	0.262	-16.4	124	0.00
8	TP	Ethyl ether	0.057	0.065	-14.0	109	0.00
10	TC	1,1-Dichloroethene	0.143	0.149	-4.2	104	0.00
11	TP	Carbon disulfide	0.462	0.366	20.8#	75	0.00
12	TP	Freon-113	0.132	0.158	-19.7	131	0.00
13	TP	Iodomethane	0.269	0.246	8.6	90	0.00
14	TP	Acrolein	0.017	0.018	-5.9	96	0.00
15	TP	Methylene chloride	0.176	0.171	2.8	91	0.00
17	TP	Acetone	0.030	0.027	10.0	84	0.00
18	TP	trans-1,2-Dichloroethene	0.162	0.165	-1.9	97	0.00
19	TP	Methyl acetate	0.064	0.065	-1.6	97	0.00
21	TP	Methyl tert-butyl ether	0.255	0.246	3.5	95	0.00
22	TP	tert-Butyl alcohol	0.00785	0.00751#	4.3	93	0.00
24	TP	Diisopropyl ether	0.464	0.429	7.5	92	0.00
25	TP	1,1-Dichloroethane	0.329	0.337	-2.4	94	0.00
26	TP	Halothane	0.123	0.129	-4.9	104	0.00
27	TP	Acrylonitrile	0.038	0.044	-15.8	111	0.00
28	TP	Ethyl tert-butyl ether	0.379	0.345	9.0	93	0.00
29	TP	Vinyl acetate	0.182	0.213	-17.0	116	0.00
30	TP	cis-1,2-Dichloroethene	0.181	0.178#	1.7	92	0.00
31	TP	2,2-Dichloropropane	0.227	0.248	-9.3	106	0.00
32	TP	Bromochloromethane	0.083	0.084#	-1.2	89	0.00
33	TP	Cyclohexane	0.292	0.317	-8.6	128	0.00
34	TC	Chloroform	0.289	0.277	4.2	94	0.00
35	TP	Ethyl acetate	0.079	0.078	1.3	98	0.00
36	TP	Carbon tetrachloride	0.222	0.242	-9.0	111	0.00
37	TP	Tetrahydrofuran	0.025	0.027	-8.0	103	0.00
38	S	Dibromofluoromethane	0.352	0.354	-0.6	94	0.00
39	TP	1,1,1-Trichloroethane	0.255	0.265	-3.9	106	0.00
41	TP	2-Butanone	0.037	0.032	13.5	87	0.00
42	TP	1,1-Dichloropropene	0.193	0.197	-2.1	108	0.00
44	TP	Benzene	0.586	0.588	-0.3	95	0.00
45	TP	tert-Amyl methyl ether	0.244	0.221	9.4	93	0.00

Evaluate Continuing Calibration Report

Data Path : K:\VOA122\2024\240122NICAL\
Data File : V22240123N06.D
Acq On : 23 Jan 2024 11:19 pm
Operator : VOA122:PID
Sample : C8260STD10PPB
Misc : WG1877676,ICAL
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jan 24 07:07:49 2024
Quant Method : K:\VOA122\2024\240122NICAL\V122_240122N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jan 24 07:06:18 2024
Response via : Initial Calibration

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

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
46	S	1,2-Dichloroethane-d4	0.323	0.327	-1.2	97	0.00
47	T	1,2-Dichloroethane	0.159	0.155	2.5	93	0.00
50	TP	Methyl cyclohexane	0.195	0.198	-1.5	134	0.00
51	TP	Trichloroethene	0.136	0.125#	8.1	96	0.00
53	TP	Dibromomethane	0.070	0.069	1.4	95	0.00
54	TC	1,2-Dichloropropane	0.132	0.124	6.1	92	0.00
56	TP	2-Chloroethyl vinyl ether	0.052	0.041	21.2#	74	0.00
57	TP	Bromodichloromethane	0.171	0.155#	9.4	89	0.00
60	TP	1,4-Dioxane	0.00081	0.00079#	2.5	93	0.00
61	TP	cis-1,3-Dichloropropene	0.179	0.177#	1.1	96	0.00
62	I	Chlorobenzene-d5	1.000	1.000	0.0	97	0.00
63	S	Toluene-d8	1.247	1.237	0.8	96	0.00
64	TC	Toluene	0.386	0.378	2.1	96	0.00
65	TP	4-Methyl-2-pentanone	0.029	0.027#	6.9	88	0.00
66	TP	Tetrachloroethene	0.164	0.166	-1.2	108	0.00
68	TP	trans-1,3-Dichloropropene	0.184	0.166#	9.8	94	0.00
70	TP	Ethyl methacrylate	0.122	0.126	-3.3	102	0.00
71	TP	1,1,2-Trichloroethane	0.089	0.079#	11.2	96	0.00
72	TP	Chlorodibromomethane	0.142	0.125#	12.0	93	0.00
73	TP	1,3-Dichloropropane	0.170	0.153	10.0	94	0.00
74	TP	1,2-Dibromoethane	0.101	0.092#	8.9	96	0.00
76	TP	2-Hexanone	0.053	0.049	7.5	89	0.00
77	TP	Chlorobenzene	0.447	0.440	1.6	96	0.00
78	TC	Ethylbenzene	0.750	0.759	-1.2	98	0.00
79	TP	1,1,1,2-Tetrachloroethane	0.151	0.133	11.9	93	0.00
80	TP	p/m Xylene	0.297	0.299	-0.7	96	0.00
81	TP	o Xylene	0.287	0.285	0.7	94	0.00
82	TP	Styrene	0.462	0.473	-2.4	95	0.00
83	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	98	0.00
84	TP	Bromoform	0.145	0.129	11.0	95	0.00
86	TP	Isopropylbenzene	1.511	1.434	5.1	94	0.00
87	S	4-Bromofluorobenzene	0.919	0.909	1.1	95	0.00
88	TP	Bromobenzene	0.359	0.340	5.3	93	0.00
89	TP	n-Propylbenzene	1.719	1.728	-0.5	100	0.00
90	TP	1,4-Dichlorobutane	0.354	0.365	-3.1	102	0.00
91	TP	1,1,2,2-Tetrachloroethane	0.203	0.189#	6.9	97	0.00
92	TP	4-Ethyltoluene	1.491	1.533	-2.8	101	0.00

Evaluate Continuing Calibration Report

Data Path : K:\VOA122\2024\240122NICAL\
Data File : V22240123N06.D
Acq On : 23 Jan 2024 11:19 pm
Operator : VOA122:PID
Sample : C8260STD10PPB
Misc : WG1877676,ICAL
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jan 24 07:07:49 2024
Quant Method : K:\VOA122\2024\240122NICAL\V122_240122N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jan 24 07:06:18 2024
Response via : Initial Calibration

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
93 TP	2-Chlorotoluene	1.028	1.015	1.3	95	0.00
94 TP	1,3,5-Trimethylbenzene	1.251	1.218	2.6	94	0.00
95 TP	1,2,3-Trichloropropane	0.167	0.157	6.0	96	0.00
96 TP	trans-1,4-Dichloro-2-butene	0.076	0.071	6.6	97	0.00
97 TP	4-Chlorotoluene	1.096	1.058	3.5	94	0.00
98 TP	tert-Butylbenzene	1.283	1.306	-1.8	104	0.00
101 TP	1,2,4-Trimethylbenzene	1.400	1.390	0.7	96	0.00
102 TP	sec-Butylbenzene	1.517	1.586	-4.5	109	0.00
103 TP	p-Isopropyltoluene	1.358	1.424	-4.9	104	0.00
104 TP	1,3-Dichlorobenzene	0.718	0.701	2.4	94	0.00
105 TP	1,4-Dichlorobenzene	0.704	0.685	2.7	95	0.00
106 TP	p-Diethylbenzene	0.813	0.771	5.2	94	0.00
107 TP	n-Butylbenzene	1.055	1.143	-8.3	108	0.00
108 TP	1,2-Dichlorobenzene	0.636	0.622	2.2	95	0.00
109 TP	1,2,4,5-Tetramethylbenzene	1.117	1.016	9.0	92	0.00
110 TP	1,2-Dibromo-3-chloropropane	0.041	0.038	7.3	92	0.00
111 TP	1,3,5-Trichlorobenzene	0.428	0.398	7.0	92	0.00
112 TP	Hexachlorobutadiene	0.140	0.141	-0.7	110	0.00
113 TP	1,2,4-Trichlorobenzene	0.376	0.362#	3.7	95	0.00
114 TP	Naphthalene	0.875	0.853	2.5	94	0.00
115 TP	1,2,3-Trichlorobenzene	0.324	0.319#	1.5	95	0.00

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 15 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : K:\VOA122\2024\240122NICAL\
Data File : V22240123N06.D
Acq On : 23 Jan 2024 11:19 pm
Operator : VOA122:PID
Sample : C8260STD10PPB
Misc : WG1877676,ICAL
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jan 24 07:07:49 2024
Quant Method : K:\VOA122\2024\240122NICAL\V122_240122N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jan 24 07:06:18 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA122\2024\240122NICAL\V22240122N08.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	5.996	96	631628	10.000	ug/L	0.00
Standard Area 1 = 652291			Recovery =	96.83%		
62) Chlorobenzene-d5	9.540	117	546898	10.000	ug/L	0.00
Standard Area 1 = 565944			Recovery =	96.63%		
83) 1,4-Dichlorobenzene-d4	12.250	152	279178	10.000	ug/L	0.00
Standard Area 1 = 285544			Recovery =	97.77%		
System Monitoring Compounds						
38) Dibromofluoromethane	5.177	113	223360	10.055	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	100.55%		
46) 1,2-Dichloroethane-d4	5.708	65	206522	10.125	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	101.25%		
63) Toluene-d8	7.696	98	676282	9.915	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	99.15%		
87) 4-Bromofluorobenzene	11.033	95	253888	9.892	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	98.92%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.631	85	106515	10.346	ug/L	97
3) Chloromethane	1.821	50	158141	9.919	ug/L	98
4) Vinyl chloride	1.894	62	135122	10.207	ug/L	98
5) Bromomethane	2.202	94	81281	10.194	ug/L	98
6) Chloroethane	2.320	64	75540	10.254	ug/L	96
7) Trichlorofluoromethane	2.457	101	165732	11.683	ug/L	100
8) Ethyl ether	2.752	74	41141	11.464	ug/L #	1
10) 1,1-Dichloroethene	2.949	96	94061	10.446	ug/L #	75
11) Carbon disulfide	2.975	76	231307	7.935	ug/L	100
12) Freon-113	2.988	101	99488	11.905	ug/L	97
13) Iodomethane	3.086	142	155643	9.148	ug/L	95
14) Acrolein	3.257	56	11152	10.691	ug/L	91
15) Methylene chloride	3.493	84	107871	9.703	ug/L #	70
17) Acetone	3.526	43	17254	9.173	ug/L	98
18) trans-1,2-Dichloroethene	3.643	96	104013	10.170	ug/L	84
19) Methyl acetate	3.650	43	41294	10.262	ug/L #	89
21) Methyl tert-butyl ether	3.742	73	155633	9.679	ug/L #	85
22) tert-Butyl alcohol	3.820	59	23714	47.814	ug/L	98
24) Diisopropyl ether	4.102	45	270905	9.240	ug/L	93
25) 1,1-Dichloroethane	4.227	63	212935	10.236	ug/L	95
26) Halothane	4.279	117	81507	10.479	ug/L	99

Data Path : K:\VOA122\2024\240122NICAL\
Data File : V22240123N06.D
Acq On : 23 Jan 2024 11:19 pm
Operator : VOA122:PID
Sample : C8260STD10PPB
Misc : WG1877676,ICAL
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jan 24 07:07:49 2024
Quant Method : K:\VOA122\2024\240122NICAL\V122_240122N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jan 24 07:06:18 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA122\2024\240122NICAL\V22240122N08.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
27) Acrylonitrile	4.266	53	28100	11.593	ug/L		99
28) Ethyl tert-butyl ether	4.456	59	217991	9.113	ug/L		95
29) Vinyl acetate	4.456	43	134251	11.686	ug/L	#	90
30) cis-1,2-Dichloroethene	4.738	96	112315	9.811	ug/L	#	83
31) 2,2-Dichloropropane	4.849	77	156580	10.917	ug/L		87
32) Bromochloromethane	4.928	128	53341	10.164	ug/L	#	81
33) Cyclohexane	4.941	56	200396	10.876	ug/L		74
34) Chloroform	5.000	83	175002	9.583	ug/L	#	95
35) Ethyl acetate	5.112	43	49503	9.950	ug/L		97
36) Carbon tetrachloride	5.144	117	152878	10.898	ug/L		98
37) Tetrahydrofuran	5.151	42	16817M6	10.494	ug/L		
39) 1,1,1-Trichloroethane	5.210	97	167410	10.404	ug/L		96
41) 2-Butanone	5.289	43	19932	8.461	ug/L	#	51
42) 1,1-Dichloropropene	5.328	75	124580	10.204	ug/L		99
44) Benzene	5.577	78	371580	10.039	ug/L		94
45) tert-Amyl methyl ether	5.688	73	139322	9.056	ug/L		94
47) 1,2-Dichloroethane	5.774	62	97749	9.719	ug/L		98
50) Methyl cyclohexane	6.173	83	125166	10.151	ug/L	#	71
51) Trichloroethene	6.173	95	78986	9.181	ug/L		98
53) Dibromomethane	6.604	93	43551	9.846	ug/L	#	82
54) 1,2-Dichloropropane	6.716	63	78466	9.388	ug/L		96
56) 2-Chloroethyl vinyl ether	7.411	63	25885	7.833	ug/L	#	87
57) Bromodichloromethane	6.785	83	97881	9.042	ug/L		98
60) 1,4-Dioxane	6.994	88	25030	492.256	ug/L	#	63
61) cis-1,3-Dichloropropene	7.480	75	112067	9.911	ug/L	#	87
64) Toluene	7.751	92	206566	9.783	ug/L		96
65) 4-Methyl-2-pentanone	8.182	58	14600	9.067	ug/L	#	85
66) Tetrachloroethene	8.196	166	90696	10.136	ug/L		95
68) trans-1,3-Dichloropropene	8.224	75	90793	8.998	ug/L		87
70) Ethyl methacrylate	8.425	69	68934	10.311	ug/L		96
71) 1,1,2-Trichloroethane	8.412	83	43201	8.919	ug/L		98
72) Chlorodibromomethane	8.621	129	68116	8.798	ug/L		99
73) 1,3-Dichloropropane	8.733	76	83831	9.017	ug/L		100
74) 1,2-Dibromoethane	8.902	107	50112	9.028	ug/L		99
76) 2-Hexanone	9.196	43	26947	9.278	ug/L		96
77) Chlorobenzene	9.561	112	240744	9.840	ug/L		89
78) Ethylbenzene	9.603	91	414965	10.121	ug/L		99
79) 1,1,1,2-Tetrachloroethane	9.645	131	72673	8.816	ug/L		97
80) p/m Xylene	9.792	106	327164	20.115	ug/L		99
81) o Xylene	10.332	106	311889	19.905	ug/L		99

Data Path : K:\VOA122\2024\240122NICAL\
Data File : V22240123N06.D
Acq On : 23 Jan 2024 11:19 pm
Operator : VOA122:PID
Sample : C8260STD10PPB
Misc : WG1877676,ICAL
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jan 24 07:07:49 2024
Quant Method : K:\VOA122\2024\240122NICAL\V122_240122N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jan 24 07:06:18 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA122\2024\240122NICAL\V22240122N08.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
82) Styrene	10.395	104	517077	20.481	ug/L	98
84) Bromoform	10.409	173	36000	8.872	ug/L	98
86) Isopropylbenzene	10.718	105	400260	9.491	ug/L	100
88) Bromobenzene	11.146	156	95039	9.481	ug/L	100
89) n-Propylbenzene	11.202	91	482361	10.049	ug/L	99
90) 1,4-Dichlorobutane	11.209	55	101811	10.292	ug/L	99
91) 1,1,2,2-Tetrachloroethane	11.279	83	52822	9.329	ug/L	100
92) 4-Ethyltoluene	11.328	105	427841	10.278	ug/L	100
93) 2-Chlorotoluene	11.363	91	283334M6	9.876	ug/L	
94) 1,3,5-Trimethylbenzene	11.426	105	340145	9.741	ug/L	99
95) 1,2,3-Trichloropropane	11.412	75	43809	9.421	ug/L	98
96) trans-1,4-Dichloro-2-b...	11.468	53	19777	9.300	ug/L	82
97) 4-Chlorotoluene	11.545	91	295270	9.653	ug/L	98
98) tert-Butylbenzene	11.770	119	364566	10.175	ug/L	99
101) 1,2,4-Trimethylbenzene	11.847	105	388154	9.930	ug/L	99
102) sec-Butylbenzene	11.958	105	442824	10.454	ug/L	99
103) p-Isopropyltoluene	12.118	119	397526	10.485	ug/L	99
104) 1,3-Dichlorobenzene	12.174	146	195573	9.756	ug/L	97
105) 1,4-Dichlorobenzene	12.264	146	191330	9.732	ug/L	97
106) p-Diethylbenzene	12.494	119	215300	9.483	ug/L	100
107) n-Butylbenzene	12.550	91	319015	10.834	ug/L	99
108) 1,2-Dichlorobenzene	12.689	146	173668	9.782	ug/L	96
109) 1,2,4,5-Tetramethylben...	13.287	119	283510	9.090	ug/L	100
110) 1,2-Dibromo-3-chloropr...	13.468	155	10724	9.295	ug/L	99
111) 1,3,5-Trichlorobenzene	13.503	180	111245	9.309	ug/L	95
112) Hexachlorobutadiene	14.088	225	39392	10.077	ug/L	99
113) 1,2,4-Trichlorobenzene	14.102	180	101107	9.633	ug/L	97
114) Naphthalene	14.394	128	238041	9.742	ug/L	100
115) 1,2,3-Trichlorobenzene	14.561	180	89187	9.872	ug/L	96

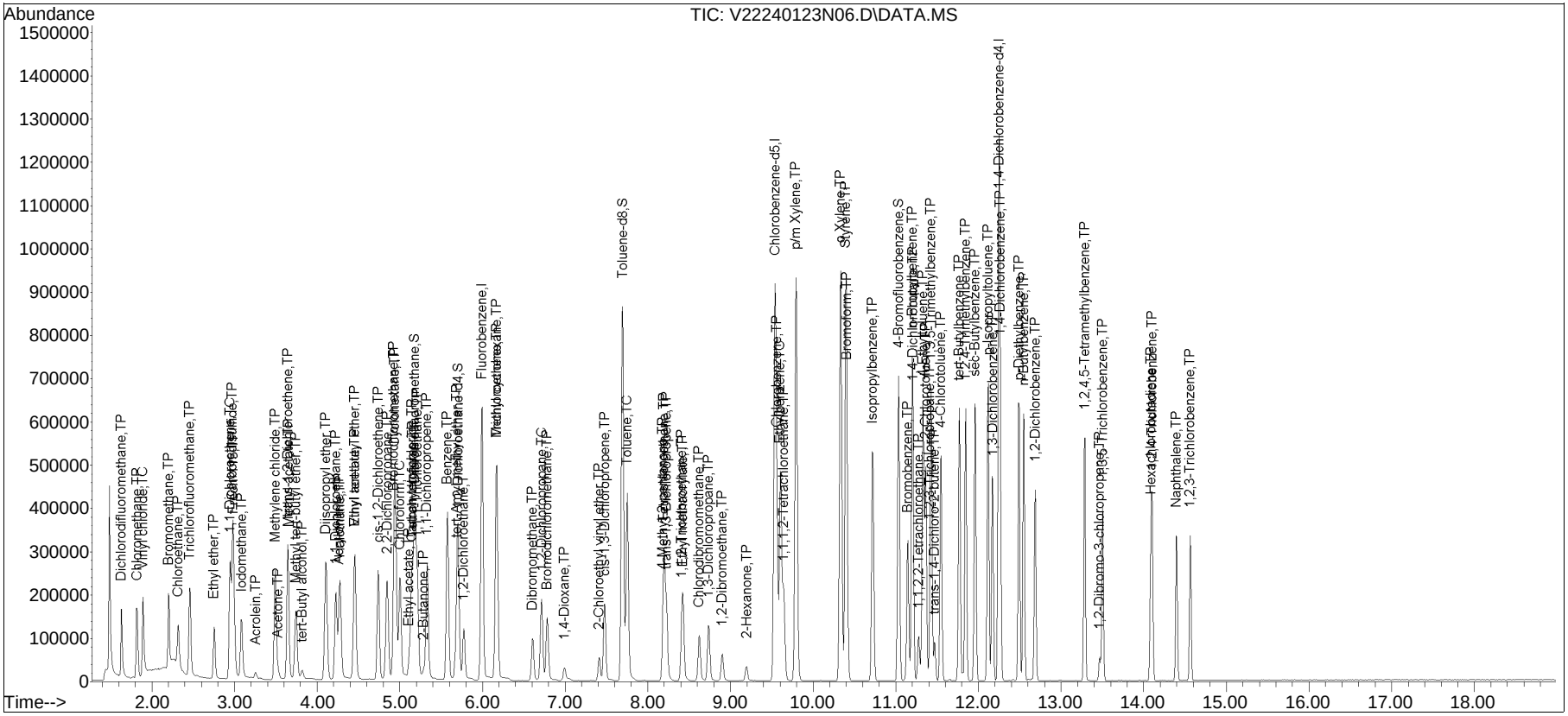
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : K:\VOA122\2024\240122NICAL\
Data File : V22240123N06.D
Acq On : 23 Jan 2024 11:19 pm
Operator : VOA122:PID
Sample : C8260STD10PPB
Misc : WG1877676,ICAL
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jan 24 07:07:49 2024
Quant Method : K:\VOA122\2024\240122NICAL\V122_240122N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jan 24 07:06:18 2024
Response via : Initial Calibration

Sub List : 8260-Curve - Megamix plus Diox\V22240122N08.D•

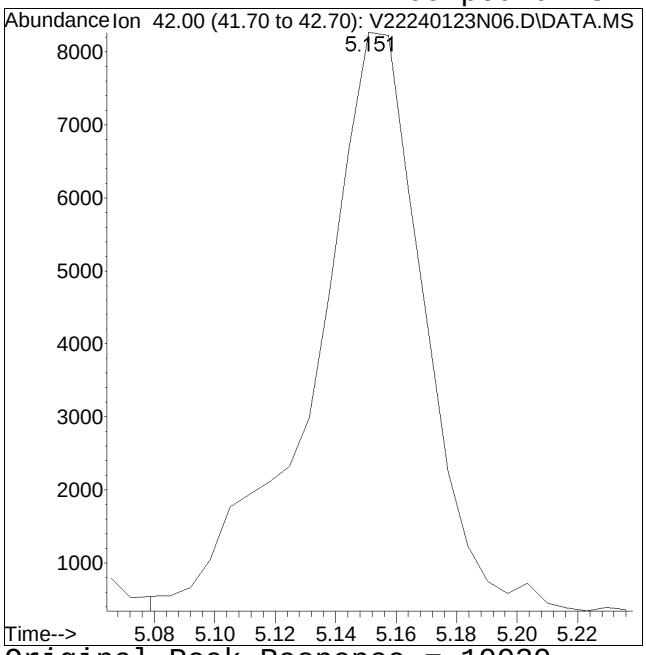


Manual Integration Report

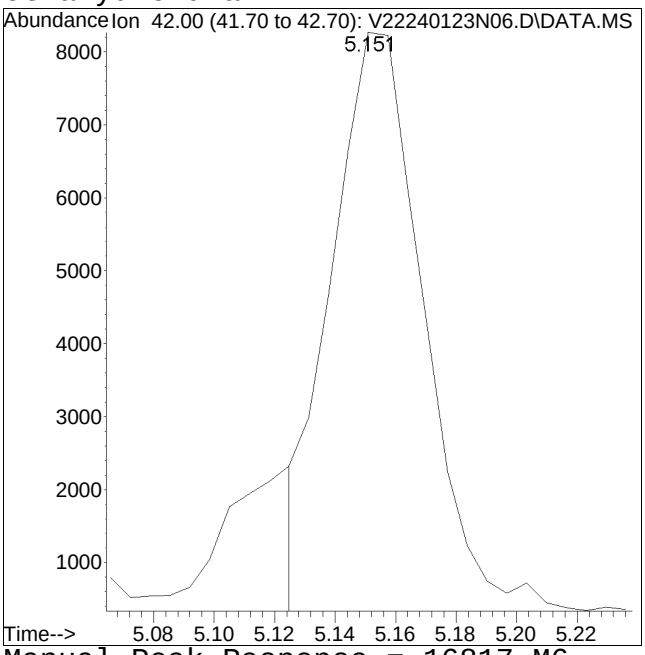
Data Path : K:\VOA122\2024\240122NICALQ
Data File : V22240123N06.D
Date Inj'd : 1/23/2024 11:19 pm
Sample : C8260STD10PPB

Method : V122_240122N_8260.m
Operator : VOA122:PID
Instrument : VOA 122
Quant Date : 1/24/2024 7:06 am

Compound #37: Tetrahydrofuran



Original Peak Response = 19939



Manual Peak Response = 16817 M6

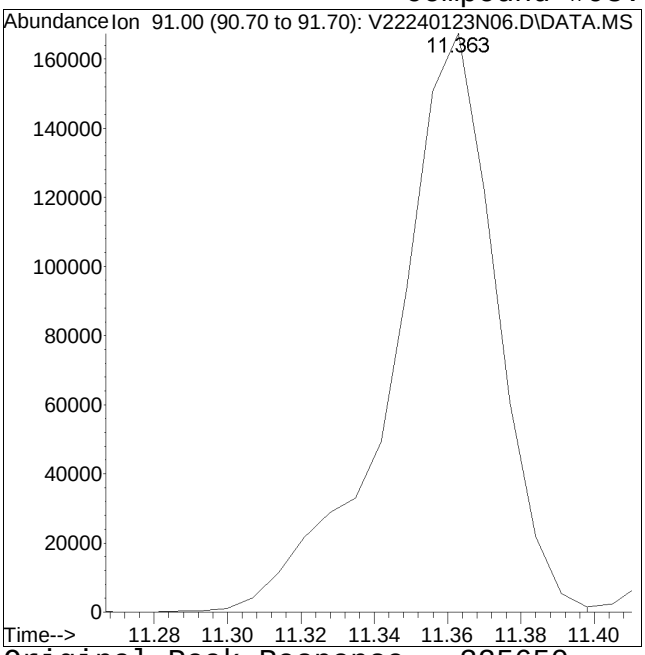
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

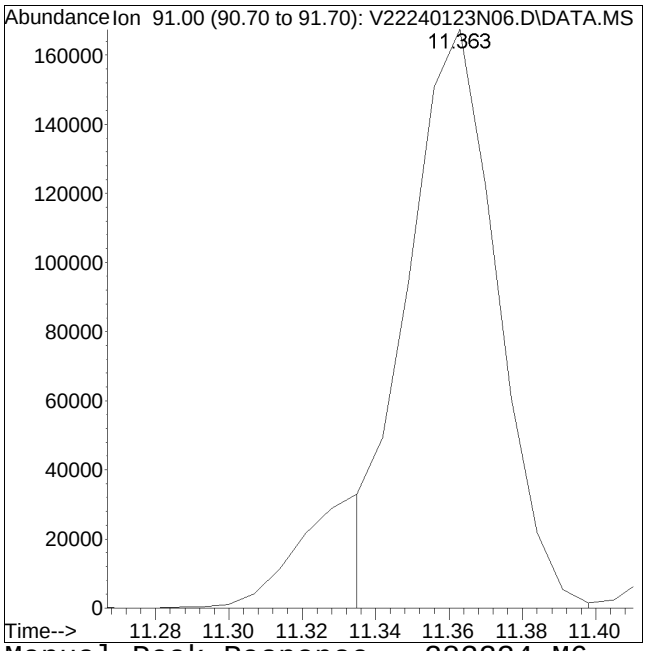
Data Path : K:\VOA122\2024\240122NICALQ
Data File : V22240123N06.D
Date Inj'd : 1/23/2024 11:19 pm
Sample : C8260STD10PPB

Method : V122_240122N_8260.m
Operator : VOA122:PID
Instrument : VOA 122
Quant Date : 1/24/2024 7:06 am

Compound #93: 2-Chlorotoluene



Original Peak Response = 325650



Manual Peak Response = 283334 M6

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

Continuing Calibration

Calibration Verification Summary
Form 7
Volatiles

Client	: Alpha Geoscience	**Lab Number**	: L2410579		
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116		
Instrument ID	: VOA122	**Calibration Date**	: 03/01/24 08:30		
Lab File ID	: V22240301A01	**Init. Calib. Date(s)**	: 01/22/24	01/23/24	
Sample No	: WG1891888-2	**Init. Calib. Times**	: 22:47	22:06	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Fluorobenzene	1	1	-	0	20	79	0
Dichlorodifluoromethane	0.163	0.177	-	-8.6	20	93	0
Chloromethane	0.252	0.294	-	-16.7	20	87	0
Vinyl chloride	0.21	0.244	-	-16.2	20	95	0
Bromomethane	0.126	0.07	-	44.4*	20	42	0
Chloroethane	0.117	0.137	-	-17.1	20	92	0
Trichlorofluoromethane	0.225	0.256	-	-13.8	20	98	0
Ethyl ether	0.057	0.053	-	7	20	72	0
1,1-Dichloroethene	0.143	0.161	-	-12.6	20	92	0
Carbon disulfide	0.462	0.521	-	-12.8	20	87	0
Freon-113	0.132	0.153	-	-15.9	20	104	0
Acrolein	0.017	0.017	-	0	20	74	0
Methylene chloride	0.176	0.177	-	-0.6	20	76	0
Acetone	0.03	0.029	-	3.3	20	73	0
trans-1,2-Dichloroethene	0.162	0.168	-	-3.7	20	81	0
Methyl acetate	0.064	0.068	-	-6.3	20	82	0
Methyl tert-butyl ether	0.255	0.23	-	9.8	20	73	0
tert-Butyl alcohol	0.00785	0.00715*	-	8.9	20	72	0
Diisopropyl ether	0.464	0.473	-	-1.9	20	83	0
1,1-Dichloroethane	0.329	0.379	-	-15.2	20	86	0
Halothane	0.123	0.116	-	5.7	20	76	0
Acrylonitrile	0.038	0.041	-	-7.9	20	83	0
Ethyl tert-butyl ether	0.379	0.371	-	2.1	20	81	0
Vinyl acetate	0.182	0.21	-	-15.4	20	94	0
cis-1,2-Dichloroethene	0.181	0.183*	-	-1.1	20	77	0
2,2-Dichloropropane	0.227	0.232	-	-2.2	20	81	0
Bromochloromethane	0.083	0.082*	-	1.2	20	70	0
Cyclohexane	0.292	0.386	-	-32.2*	20	127	0
Chloroform	0.289	0.28	-	3.1	20	77	0
Ethyl acetate	0.079	0.074	-	6.3	20	75	0
Carbon tetrachloride	0.222	0.218	-	1.8	20	81	0
Tetrahydrofuran	0.025	0.027	-	-8	20	84	0
Dibromofluoromethane	0.352	0.357	-	-1.4	20	78	0
1,1,1-Trichloroethane	0.255	0.249	-	2.4	20	81	0
2-Butanone	0.037	0.032	-	13.5	20	73	0
1,1-Dichloropropene	0.193	0.196	-	-1.6	20	88	0
Benzene	0.586	0.609	-	-3.9	20	80	0
tert-Amyl methyl ether	0.244	0.201	-	17.6	20	69	0
1,2-Dichloroethane-d4	0.323	0.348	-	-7.7	20	84	0
1,2-Dichloroethane	0.159	0.159	-	0	20	77	0
Methyl cyclohexane	0.195	0.204	-	-4.6	20	113	0
Trichloroethene	0.136	0.122*	-	10.3	20	76	0
Dibromomethane	0.07	0.062	-	11.4	20	70	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Volatiles

Client	: Alpha Geoscience	**Lab Number**	: L2410579		
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116		
Instrument ID	: VOA122	**Calibration Date**	: 03/01/24 08:30		
Lab File ID	: V22240301A01	**Init. Calib. Date(s)**	: 01/22/24	01/23/24	
Sample No	: WG1891888-2	**Init. Calib. Times**	: 22:47	22:06	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,2-Dichloropropane	0.132	0.137	-	-3.8	20	82	0
Bromodichloromethane	0.171	0.149*	-	12.9	20	70	0
1,4-Dioxane	0.00081	0.00071*	-	12.3	20	68	0
cis-1,3-Dichloropropene	0.179	0.153*	-	14.5	20	67	0
Chlorobenzene-d5	1	1	-	0	20	78	0
Toluene-d8	1.247	1.271	-	-1.9	20	80	0
Toluene	0.386	0.378	-	2.1	20	78	0
4-Methyl-2-pentanone	0.029	0.025*	-	13.8	20	67	0
Tetrachloroethene	0.164	0.171	-	-4.3	20	90	0
trans-1,3-Dichloropropene	0.184	0.147*	-	20.1*	20	67	0
Ethyl methacrylate	0.122	0.094	-	23*	20	62	0
1,1,2-Trichloroethane	0.089	0.072*	-	19.1	20	70	0
Chlorodibromomethane	0.142	0.106*	-	25.4*	20	64	0
1,3-Dichloropropane	0.17	0.149	-	12.4	20	74	0
1,2-Dibromoethane	0.101	0.085*	-	15.8	20	72	0
2-Hexanone	0.053	0.044	-	17	20	64	0
Chlorobenzene	0.447	0.421	-	5.8	20	74	0
Ethylbenzene	0.75	0.753	-	-0.4	20	78	0
1,1,1,2-Tetrachloroethane	0.151	0.12	-	20.5*	20	68	0
p/m Xylene	0.297	0.291	-	2	20	75	0
o Xylene	0.287	0.272	-	5.2	20	72	0
Styrene	0.462	0.437	-	5.4	20	70	0
1,4-Dichlorobenzene-d4	1	1	-	0	20	81	0
Bromoform	0.145	0.101	-	30.3*	20	62	0
Isopropylbenzene	1.511	1.485	-	1.7	20	80	0
4-Bromofluorobenzene	0.919	0.89	-	3.2	20	77	0
Bromobenzene	0.359	0.33	-	8.1	20	74	0
n-Propylbenzene	1.719	1.735	-	-0.9	20	83	0
1,4-Dichlorobutane	0.354	0.343	-	3.1	20	79	0
1,1,2,2-Tetrachloroethane	0.203	0.175*	-	13.8	20	74	0
4-Ethyltoluene	1.491	1.415	-	5.1	20	77	0
2-Chlorotoluene	1.028	0.956	-	7	20	74	0
1,3,5-Trimethylbenzene	1.251	1.116	-	10.8	20	71	0
1,2,3-Trichloropropane	0.167	0.146	-	12.6	20	73	0
trans-1,4-Dichloro-2-buten	0.076	0.051	-	32.9*	20	58	0
4-Chlorotoluene	1.096	1.016	-	7.3	20	75	0
tert-Butylbenzene	1.283	1.26	-	1.8	20	83	0
1,2,4-Trimethylbenzene	1.4	1.249	-	10.8	20	71	0
sec-Butylbenzene	1.517	1.554	-	-2.4	20	88	0
p-Isopropyltoluene	1.358	1.301	-	4.2	20	79	0
1,3-Dichlorobenzene	0.718	0.676	-	5.8	20	75	0
1,4-Dichlorobenzene	0.704	0.643	-	8.7	20	74	0
p-Diethylbenzene	0.813	0.758	-	6.8	20	76	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Volatiles

Client	: Alpha Geoscience		**Lab Number**	: L2410579	
Project Name	: HUNTINGTON READY MIX		**Project Number**	: 20116	
Instrument ID	: VOA122		**Calibration Date**	: 03/01/24 08:30	
Lab File ID	: V22240301A01		**Init. Calib. Date(s)**	: 01/22/24	01/23/24
Sample No	: WG1891888-2		**Init. Calib. Times**	: 22:47	22:06
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
n-Butylbenzene	1.055	1.054	-	0.1	20	82	0
1,2-Dichlorobenzene	0.636	0.581*	-	8.6	20	73	0
1,2,4,5-Tetramethylbenzene	1.117	1.047	-	6.3	20	78	0
1,2-Dibromo-3-chloropropan	0.041	0.029	-	29.3*	20	57	0
1,3,5-Trichlorobenzene	0.428	0.445	-	-4	20	85	0
Hexachlorobutadiene	0.14	0.169	-	-20.7*	20	108	0
1,2,4-Trichlorobenzene	0.376	0.381*	-	-1.3	20	82	0
Naphthalene	0.875	0.744	-	15	20	68	0
1,2,3-Trichlorobenzene	0.324	0.328*	-	-1.2	20	80	0

*** Value outside of QC limits.**

Evaluate Continuing Calibration Report

Data Path : K:\VOA122\2024\240301A\
Data File : V22240301A01.D
Acq On : 01 Mar 2024 08:30 am
Operator : VOA122:PID
Sample : WG1891888-2 (Sig #1); 8260 CCAL (Sig #2)
Misc : WG1891888,ICAL20803 (Sig #1); WG,ICAL20803 (Sig #2)
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 01 09:44:56 2024
Quant Method : K:\VOA122\2024\240301A\V122_240122N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jan 24 07:06:18 2024
Response via : Initial Calibration

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

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Fluorobenzene	1.000	1.000	0.0	79	0.00
2	TP	Dichlorodifluoromethane	0.163	0.177	-8.6	93	0.00
3	TP	Chloromethane	0.252	0.294	-16.7	87	0.00
4	TC	Vinyl chloride	0.210	0.244	-16.2	95	0.00
5	TP	Bromomethane	0.126	0.070	44.4#	42#	0.00
6	TP	Chloroethane	0.117	0.137	-17.1	92	0.00
7	TP	Trichlorofluoromethane	0.225	0.256	-13.8	98	0.00
8	TP	Ethyl ether	0.057	0.053	7.0	72	0.00
10	TC	1,1-Dichloroethene	0.143	0.161	-12.6	92	0.00
11	TP	Carbon disulfide	0.462	0.521	-12.8	87	0.00
12	TP	Freon-113	0.132	0.153	-15.9	104	0.00
14	TP	Acrolein	0.017	0.017	0.0	74	0.00
15	TP	Methylene chloride	0.176	0.177	-0.6	76	0.00
17	TP	Acetone	0.030	0.029	3.3	73	0.00
18	TP	trans-1,2-Dichloroethene	0.162	0.168	-3.7	81	0.00
19	TP	Methyl acetate	0.064	0.068	-6.3	82	0.00
21	TP	Methyl tert-butyl ether	0.255	0.230	9.8	73	0.00
22	TP	tert-Butyl alcohol	0.00785	0.00715#	8.9	72	0.00
24	TP	Diisopropyl ether	0.464	0.473	-1.9	83	0.00
25	TP	1,1-Dichloroethane	0.329	0.379	-15.2	86	0.00
26	TP	Halothane	0.123	0.116	5.7	76	0.00
27	TP	Acrylonitrile	0.038	0.041	-7.9	83	0.00
28	TP	Ethyl tert-butyl ether	0.379	0.371	2.1	81	0.00
29	TP	Vinyl acetate	0.182	0.210	-15.4	94	0.00
30	TP	cis-1,2-Dichloroethene	0.181	0.183#	-1.1	77	0.00
31	TP	2,2-Dichloropropane	0.227	0.232	-2.2	81	0.00
32	TP	Bromochloromethane	0.083	0.082#	1.2	70	0.00
33	TP	Cyclohexane	0.292	0.386	-32.2#	127	0.00
34	TC	Chloroform	0.289	0.280	3.1	77	0.00
35	TP	Ethyl acetate	0.079	0.074	6.3	75	0.00
36	TP	Carbon tetrachloride	0.222	0.218	1.8	81	0.00
37	TP	Tetrahydrofuran	0.025	0.027	-8.0	84	0.00
38	S	Dibromofluoromethane	0.352	0.357	-1.4	78	0.00
39	TP	1,1,1-Trichloroethane	0.255	0.249	2.4	81	0.00
41	TP	2-Butanone	0.037	0.032	13.5	73	0.00
42	TP	1,1-Dichloropropene	0.193	0.196	-1.6	88	0.00
44	TP	Benzene	0.586	0.609	-3.9	80	0.00
45	TP	tert-Amyl methyl ether	0.244	0.201	17.6	69	0.00
46	S	1,2-Dichloroethane-d4	0.323	0.348	-7.7	84	0.00

Evaluate Continuing Calibration Report

Data Path : K:\VOA122\2024\240301A\
Data File : V22240301A01.D
Acq On : 01 Mar 2024 08:30 am
Operator : VOA122:PID
Sample : WG1891888-2 (Sig #1); 8260 CCAL (Sig #2)
Misc : WG1891888,ICAL20803 (Sig #1); WG,ICAL20803 (Sig #2)
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 01 09:44:56 2024
Quant Method : K:\VOA122\2024\240301A\V122_240122N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jan 24 07:06:18 2024
Response via : Initial Calibration

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

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
47	T	1,2-Dichloroethane	0.159	0.159	0.0	77	0.00
50	TP	Methyl cyclohexane	0.195	0.204	-4.6	113	0.00
51	TP	Trichloroethene	0.136	0.122#	10.3	76	0.00
53	TP	Dibromomethane	0.070	0.062	11.4	70	0.00
54	TC	1,2-Dichloropropane	0.132	0.137	-3.8	82	0.00
57	TP	Bromodichloromethane	0.171	0.149#	12.9	70	0.00
60	TP	1,4-Dioxane	0.00081	0.00071#	12.3	68	0.00
61	TP	cis-1,3-Dichloropropene	0.179	0.153#	14.5	67	0.00
62	I	Chlorobenzene-d5	1.000	1.000	0.0	78	0.00
63	S	Toluene-d8	1.247	1.271	-1.9	80	0.00
64	TC	Toluene	0.386	0.378	2.1	78	0.00
65	TP	4-Methyl-2-pentanone	0.029	0.025#	13.8	67	0.00
66	TP	Tetrachloroethene	0.164	0.171	-4.3	90	0.00
68	TP	trans-1,3-Dichloropropene	0.184	0.147#	20.1#	67	0.00
70	TP	Ethyl methacrylate	0.122	0.094	23.0#	62	0.00
71	TP	1,1,2-Trichloroethane	0.089	0.072#	19.1	70	0.00
72	TP	Chlorodibromomethane	0.142	0.106#	25.4#	64	0.00
73	TP	1,3-Dichloropropane	0.170	0.149	12.4	74	0.00
74	TP	1,2-Dibromoethane	0.101	0.085#	15.8	72	0.00
76	TP	2-Hexanone	0.053	0.044	17.0	64	0.00
77	TP	Chlorobenzene	0.447	0.421	5.8	74	0.00
78	TC	Ethylbenzene	0.750	0.753	-0.4	78	0.00
79	TP	1,1,1,2-Tetrachloroethane	0.151	0.120	20.5#	68	0.00
80	TP	p/m Xylene	0.297	0.291	2.0	75	0.00
81	TP	o Xylene	0.287	0.272	5.2	72	0.00
82	TP	Styrene	0.462	0.437	5.4	70	0.00
83	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	81	0.00
84	TP	Bromoform	0.145	0.101	30.3#	62	0.00
86	TP	Isopropylbenzene	1.511	1.485	1.7	80	0.00
87	S	4-Bromofluorobenzene	0.919	0.890	3.2	77	0.00
88	TP	Bromobenzene	0.359	0.330	8.1	74	0.00
89	TP	n-Propylbenzene	1.719	1.735	-0.9	83	0.00
90	TP	1,4-Dichlorobutane	0.354	0.343	3.1	79	0.00
91	TP	1,1,2,2-Tetrachloroethane	0.203	0.175#	13.8	74	0.00
92	TP	4-Ethyltoluene	1.491	1.415	5.1	77	0.00
93	TP	2-Chlorotoluene	1.028	0.956	7.0	74	0.00
94	TP	1,3,5-Trimethylbenzene	1.251	1.116	10.8	71	0.00

Data Path : K:\VOA122\2024\240301A\
Data File : V22240301A01.D
Acq On : 01 Mar 2024 08:30 am
Operator : VOA122:PID
Sample : WG1891888-2 (Sig #1); 8260 CCAL (Sig #2)
Misc : WG1891888,ICAL20803 (Sig #1); WG,ICAL20803 (Sig #2)
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 01 09:44:56 2024
Quant Method : K:\VOA122\2024\240301A\V122_240122N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jan 24 07:06:18 2024
Response via : Initial Calibration

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
95 TP	1,2,3-Trichloropropane	0.167	0.146	12.6	73	0.00
96 TP	trans-1,4-Dichloro-2-butene	0.076	0.051	32.9#	58	0.00
97 TP	4-Chlorotoluene	1.096	1.016	7.3	75	0.00
98 TP	tert-Butylbenzene	1.283	1.260	1.8	83	0.00
101 TP	1,2,4-Trimethylbenzene	1.400	1.249	10.8	71	0.00
102 TP	sec-Butylbenzene	1.517	1.554	-2.4	88	0.00
103 TP	p-Isopropyltoluene	1.358	1.301	4.2	79	0.00
104 TP	1,3-Dichlorobenzene	0.718	0.676	5.8	75	0.00
105 TP	1,4-Dichlorobenzene	0.704	0.643	8.7	74	0.00
106 TP	p-Diethylbenzene	0.813	0.758	6.8	76	0.00
107 TP	n-Butylbenzene	1.055	1.054	0.1	82	0.00
108 TP	1,2-Dichlorobenzene	0.636	0.581#	8.6	73	0.00
109 TP	1,2,4,5-Tetramethylbenzene	1.117	1.047	6.3	78	0.00
110 TP	1,2-Dibromo-3-chloropropane	0.041	0.029	29.3#	57	0.00
111 TP	1,3,5-Trichlorobenzene	0.428	0.445	-4.0	85	0.00
112 TP	Hexachlorobutadiene	0.140	0.169	-20.7#	108	0.00
113 TP	1,2,4-Trichlorobenzene	0.376	0.381#	-1.3	82	0.00
114 TP	Naphthalene	0.875	0.744	15.0	68	0.00
115 TP	1,2,3-Trichlorobenzene	0.324	0.328#	-1.2	80	0.00

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 16 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : K:\VOA122\2024\240301A\
Data File : V22240301A01.D
Acq On : 01 Mar 2024 08:30 am
Operator : VOA122:PID
Sample : WG1891888-2 (Sig #1); 8260 CCAL (Sig #2)
Misc : WG1891888,ICAL20803 (Sig #1); WG,ICAL20803 (Sig #2)
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 01 09:44:56 2024
Quant Method : K:\VOA122\2024\240301A\V122_240122N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jan 24 07:06:18 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA122\2024\240301A\V22240301A01.D
Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	5.990	96	514325	10.000	ug/L	0.00
Standard Area 1 = 514325			Recovery = 100.00%			
62) Chlorobenzene-d5	9.533	117	441026	10.000	ug/L	0.00
Standard Area 1 = 441026			Recovery = 100.00%			
83) 1,4-Dichlorobenzene-d4	12.244	152	230262	10.000	ug/L	0.00
Standard Area 1 = 230262			Recovery = 100.00%			
System Monitoring Compounds						
38) Dibromofluoromethane	5.177	113	183662	10.153	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 101.53%			
46) 1,2-Dichloroethane-d4	5.702	65	178845	10.768	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 107.68%			
63) Toluene-d8	7.689	98	560478	10.190	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 101.90%			
87) 4-Bromofluorobenzene	11.034	95	204900	9.679	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 96.79%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.638	85	90919	10.845	ug/L	98
3) Chloromethane	1.822	50	151060	11.636	ug/L	97
4) Vinyl chloride	1.894	62	125672	11.659	ug/L	97
5) Bromomethane	2.202	94	36057	5.554	ug/L	100
6) Chloroethane	2.320	64	70245	11.710	ug/L	96
7) Trichlorofluoromethane	2.464	101	131767	11.407	ug/L	99
8) Ethyl ether	2.759	74	27307	9.345	ug/L #	1
10) 1,1-Dichloroethene	2.949	96	82888	11.305	ug/L #	63
11) Carbon disulfide	2.975	76	268064	11.293	ug/L	100
12) Freon-113	2.988	101	78807	11.581	ug/L	95
14) Acrolein	3.257	56	8594	10.118	ug/L	96
15) Methylene chloride	3.493	84	90786	10.029	ug/L #	55
17) Acetone	3.526	43	15155	9.894	ug/L	99
18) trans-1,2-Dichloroethene	3.644	96	86515	10.389	ug/L #	70
19) Methyl acetate	3.650	43	34756	10.607	ug/L #	89
21) Methyl tert-butyl ether	3.742	73	118307	9.035	ug/L #	81
22) tert-Butyl alcohol	3.821	59	18397	45.554	ug/L	99
24) Diisopropyl ether	4.103	45	243153	10.185	ug/L #	89
25) 1,1-Dichloroethane	4.221	63	195064	11.515	ug/L	95
26) Halothane	4.273	117	59423	9.383	ug/L	100
27) Acrylonitrile	4.260	53	21160	10.721	ug/L	97

Data Path : K:\VOA122\2024\240301A\
Data File : V22240301A01.D
Acq On : 01 Mar 2024 08:30 am
Operator : VOA122:PID
Sample : WG1891888-2 (Sig #1); 8260 CCAL (Sig #2)
Misc : WG1891888,ICAL20803 (Sig #1); WG,ICAL20803 (Sig #2)
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 01 09:44:56 2024
Quant Method : K:\VOA122\2024\240301A\V122_240122N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jan 24 07:06:18 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA122\2024\240301A\V22240301A01.D
Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
28) Ethyl tert-butyl ether	4.450	59	191044	9.808	ug/L		89
29) Vinyl acetate	4.457	43	108154	11.562	ug/L	#	87
30) cis-1,2-Dichloroethene	4.738	96	94111	10.095	ug/L	#	71
31) 2,2-Dichloropropane	4.843	77	119493	10.231	ug/L	#	84
32) Bromochloromethane	4.928	128	42171	9.868	ug/L	#	63
33) Cyclohexane	4.941	56	198773	13.249	ug/L	#	61
34) Chloroform	5.000	83	144095	9.690	ug/L		96
35) Ethyl acetate	5.112	43	37815	9.334	ug/L	#	95
36) Carbon tetrachloride	5.145	117	112022	9.807	ug/L		98
37) Tetrahydrofuran	5.151	42	13798M6	10.574	ug/L		
39) 1,1,1-Trichloroethane	5.204	97	128052	9.773	ug/L		94
41) 2-Butanone	5.289	43	16568	8.637	ug/L	#	84
42) 1,1-Dichloropropene	5.328	75	101038	10.163	ug/L		97
44) Benzene	5.571	78	313421	10.399	ug/L	#	90
45) tert-Amyl methyl ether	5.689	73	103601	8.270	ug/L	#	87
47) 1,2-Dichloroethane	5.774	62	81599	9.964	ug/L		97
50) Methyl cyclohexane	6.167	83	105049	10.462	ug/L	#	53
51) Trichloroethene	6.167	95	62520	8.925	ug/L		99
53) Dibromomethane	6.605	93	32006	8.886	ug/L		86
54) 1,2-Dichloropropane	6.709	63	70410	10.345	ug/L		93
57) Bromodichloromethane	6.779	83	76690	8.700	ug/L		98
60) 1,4-Dioxane	6.987	88	18224	440.147	ug/L	#	49
61) cis-1,3-Dichloropropene	7.474	75	78766	8.555	ug/L	#	89
64) Toluene	7.745	92	166806	9.797	ug/L		97
65) 4-Methyl-2-pentanone	8.175	58	11121	8.564	ug/L	#	89
66) Tetrachloroethene	8.196	166	75469	10.459	ug/L		96
68) trans-1,3-Dichloropropene	8.224	75	64703	7.952	ug/L		89
70) Ethyl methacrylate	8.426	69	41529	7.703	ug/L		90
71) 1,1,2-Trichloroethane	8.412	83	31596	8.089	ug/L		96
72) Chlorodibromomethane	8.621	129	46672	7.475	ug/L		99
73) 1,3-Dichloropropane	8.734	76	65915	8.792	ug/L		100
74) 1,2-Dibromoethane	8.895	107	37614	8.403	ug/L		100
76) 2-Hexanone	9.189	43	19336	8.255	ug/L		94
77) Chlorobenzene	9.554	112	185640	9.409	ug/L		93
78) Ethylbenzene	9.603	91	332116	10.045	ug/L		99
79) 1,1,1,2-Tetrachloroethane	9.638	131	52831	7.947	ug/L		97
80) p/m Xylene	9.792	106	256461	19.553	ug/L		97
81) o Xylene	10.332	106	240195	19.009	ug/L		95
82) Styrene	10.396	104	385395	18.930	ug/L		96
84) Bromoform	10.410	173	23335	6.972	ug/L		97

Quantitation Report (QT Reviewed)

Data Path : K:\VOA122\2024\240301A\
Data File : V22240301A01.D
Acq On : 01 Mar 2024 08:30 am
Operator : VOA122:PID
Sample : WG1891888-2 (Sig #1); 8260 CCAL (Sig #2)
Misc : WG1891888,ICAL20803 (Sig #1); WG,ICAL20803 (Sig #2)
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 01 09:44:56 2024
Quant Method : K:\VOA122\2024\240301A\V122_240122N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jan 24 07:06:18 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA122\2024\240301A\V22240301A01.D
Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
86)	Isopropylbenzene	10.718	105	341872	9.829	ug/L		98
88)	Bromobenzene	11.146	156	76065	9.200	ug/L		99
89)	n-Propylbenzene	11.195	91	399597	10.093	ug/L		98
90)	1,4-Dichlorobutane	11.202	55	78997	9.683	ug/L		95
91)	1,1,2,2-Tetrachloroethane	11.272	83	40330	8.636	ug/L		99
92)	4-Ethyltoluene	11.328	105	325801	9.489	ug/L		100
93)	2-Chlorotoluene	11.356	91	220135M6	9.303	ug/L		
94)	1,3,5-Trimethylbenzene	11.426	105	256972	8.923	ug/L		98
95)	1,2,3-Trichloropropane	11.412	75	33649	8.773	ug/L		95
96)	trans-1,4-Dichloro-2-b...	11.461	53	11765	6.707	ug/L	#	67
97)	4-Chlorotoluene	11.539	91	233916	9.272	ug/L		99
98)	tert-Butylbenzene	11.763	119	290158	9.818	ug/L		98
101)	1,2,4-Trimethylbenzene	11.840	105	287578	8.920	ug/L		89
102)	sec-Butylbenzene	11.958	105	357833	10.243	ug/L		98
103)	p-Isopropyltoluene	12.111	119	299581	9.581	ug/L		98
104)	1,3-Dichlorobenzene	12.167	146	155589	9.410	ug/L		97
105)	1,4-Dichlorobenzene	12.258	146	148006	9.128	ug/L		98
106)	p-Diethylbenzene	12.487	119	174481	9.318	ug/L		99
107)	n-Butylbenzene	12.543	91	242710	9.993	ug/L		100
108)	1,2-Dichlorobenzene	12.682	146	133701	9.130	ug/L		96
109)	1,2,4,5-Tetramethylben...	13.281	119	240997	9.369	ug/L		98
110)	1,2-Dibromo-3-chloropr...	13.462	155	6575	6.909	ug/L		99
111)	1,3,5-Trichlorobenzene	13.497	180	102455	10.395	ug/L		97
112)	Hexachlorobutadiene	14.081	225	38819	12.040	ug/L		99
113)	1,2,4-Trichlorobenzene	14.102	180	87728	10.134	ug/L		98
114)	Naphthalene	14.395	128	171318	8.501	ug/L		100
115)	1,2,3-Trichlorobenzene	14.562	180	75415	10.121	ug/L		99

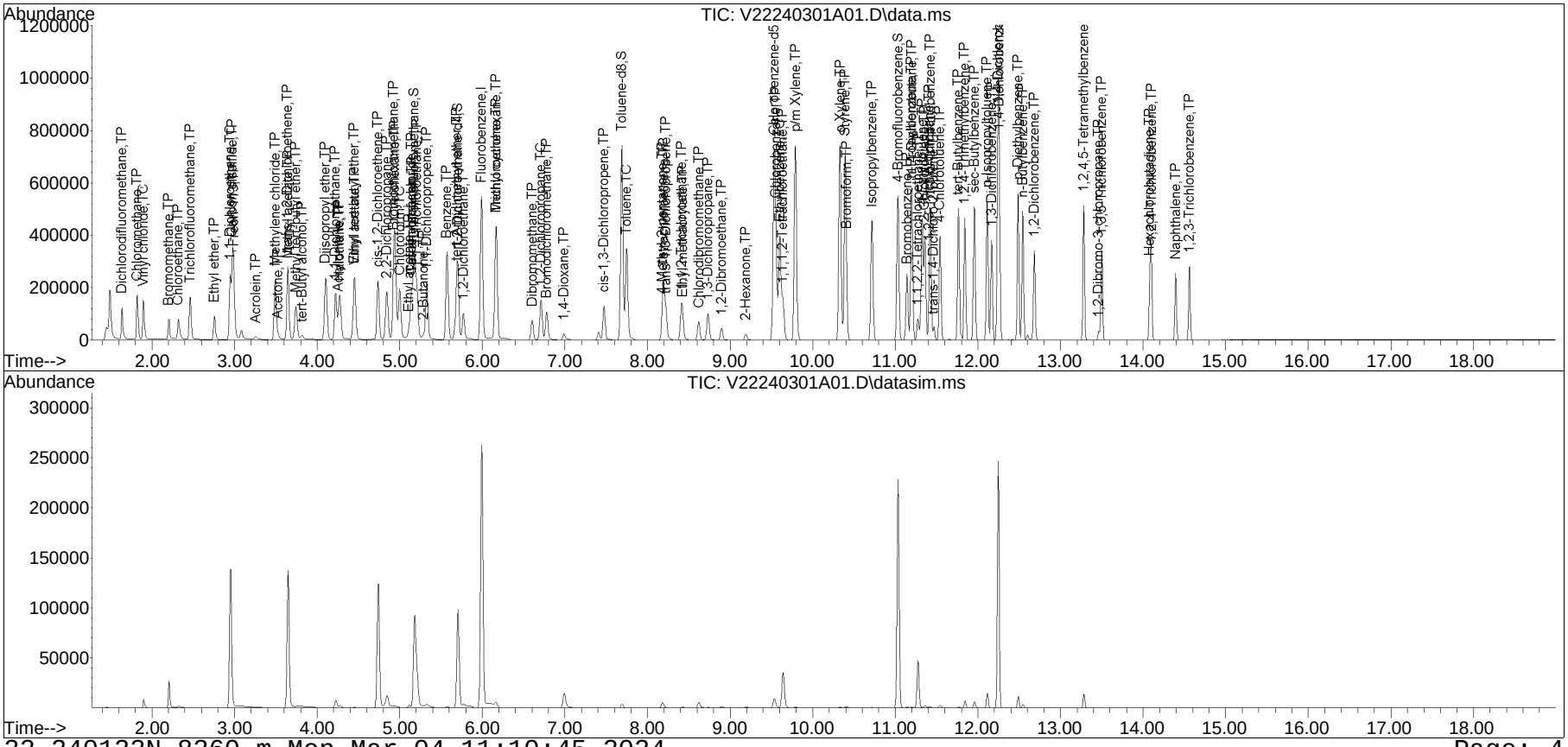
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : K:\VOA122\2024\240301A\
Data File : V22240301A01.D
Acq On : 01 Mar 2024 08:30 am
Operator : VOA122:PID
Sample : WG1891888-2 (Sig #1); 8260 CCAL (Sig #2)
Misc : WG1891888,ICAL20803 (Sig #1); WG,ICAL20803 (Sig #2)
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 01 09:44:56 2024
Quant Method : K:\VOA122\2024\240301A\V122_240122N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jan 24 07:06:18 2024
Response via : Initial Calibration

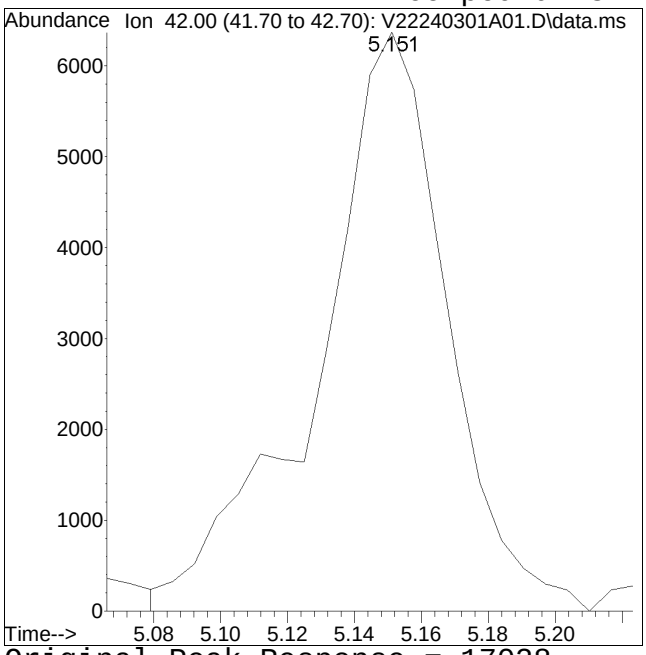
Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane



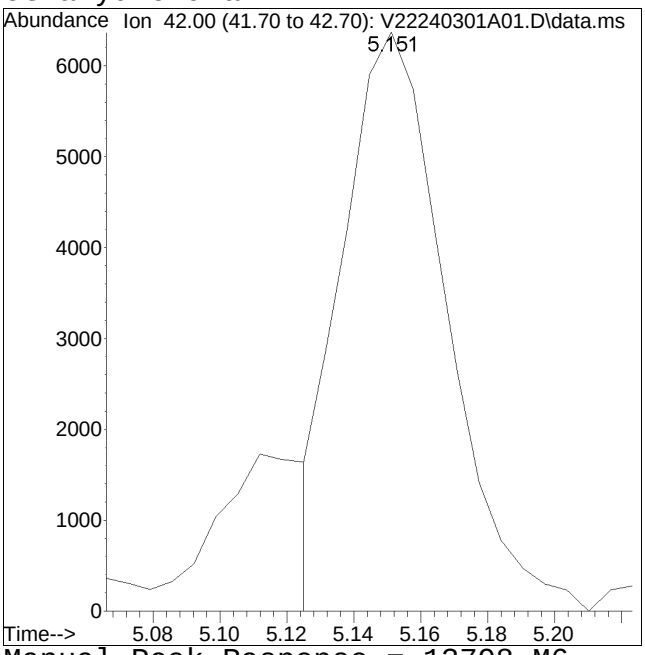
Manual Integration Report

Data Path	: K:\VOA122\2024\240301A\	QMethod	: V122_240122N_8260.m
Data File	: V22240301A01.D	Operator	: VOA122:PID
Date Inj'd	: 3/1/2024 8:30 am	Instrument	: VOA 122
Sample	: WG1891888-2	Quant Date	: 3/1/2024 9:43 am

Compound #37: Tetrahydrofuran



Original Peak Response = 17028



Manual Peak Response = 13798 M6

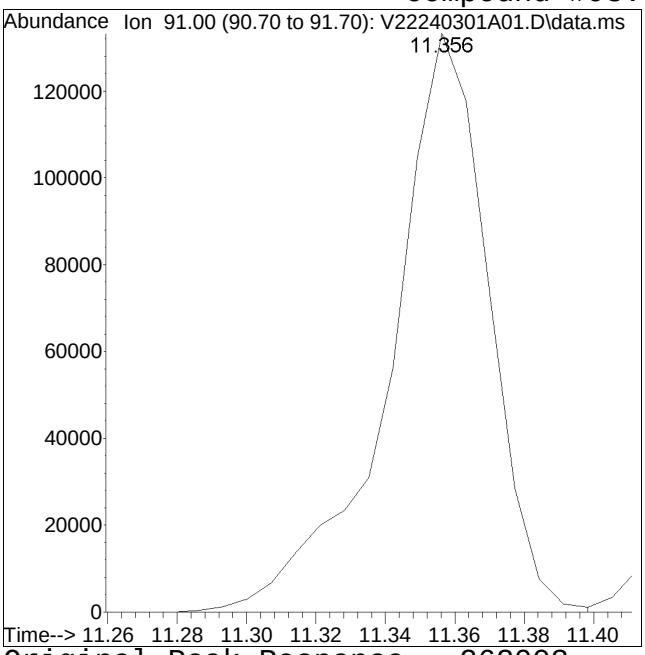
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

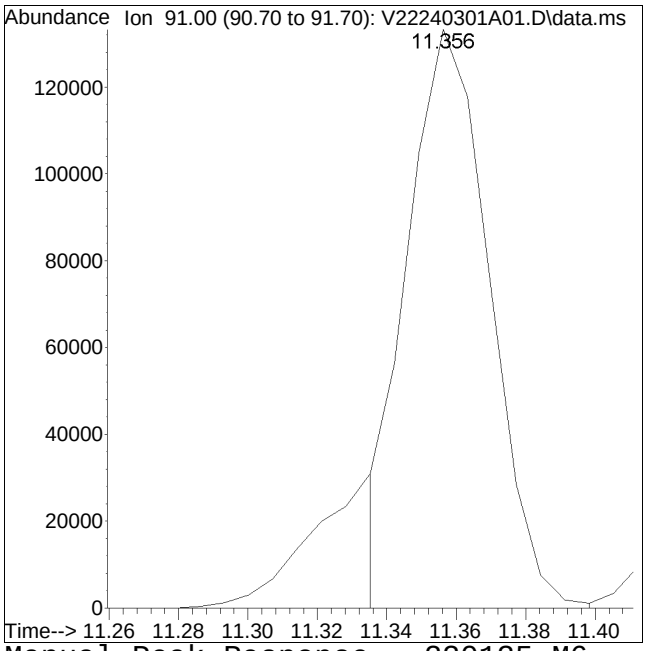
Data Path : K:\VOA122\2024\240301A\
Data File : V22240301A01.D
Date Inj'd : 3/1/2024 8:30 am
Sample : WG1891888-2

QMethod : V122_240122N_8260.m
Operator : VOA122:PID
Instrument : VOA 122
Quant Date : 3/1/2024 9:43 am

Compound #93: 2-Chlorotoluene



Original Peak Response = 262003



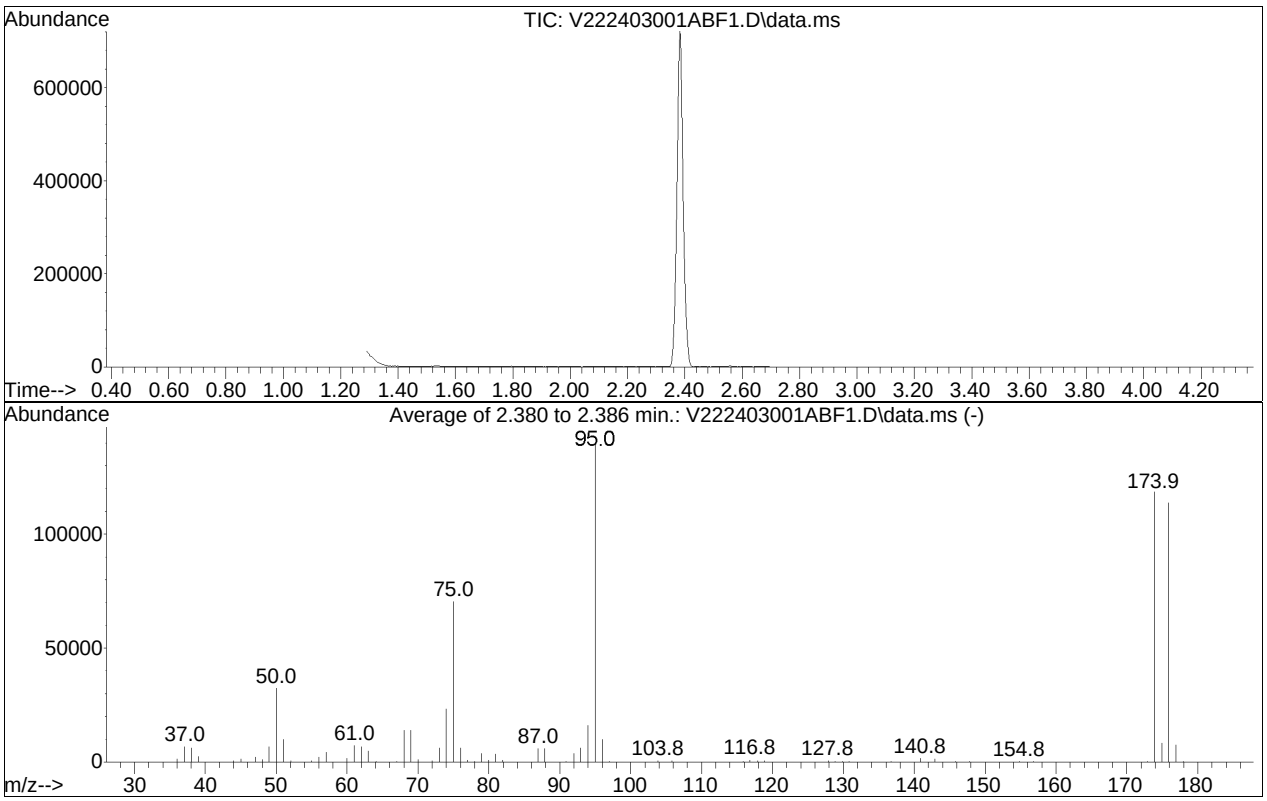
Manual Peak Response = 220135 M6

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

Data Path : K:\VOA122\2024\240301A\
Data File : V222403001ABF1.D
Acq On : 01 Mar 2024 08:17 am
Operator : VOA122:PID
Sample : WG1891888-1
Misc : WG1891888,ICAL20803
ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : K:\VOA122\2024\240301A\V122_240122N_8260.m
Title : VOLATILES BY GC/MS
Last Update : Wed Jan 24 07:06:18 2024



Spectrum Information: Average of 2.380 to 2.386 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	23.2	32461	PASS
75	95	30	60	50.3	70419	PASS
95	95	100	100	100.0	140117	PASS
96	95	5	9	7.1	9889	PASS
173	174	0.00	2	0.3	413	PASS
174	95	50	100	84.6	118483	PASS
175	174	5	9	7.1	8356	PASS
176	174	95	101	95.9	113677	PASS
177	176	5	9	6.8	7737	PASS

Volatiles Raw QC Data

Quantitation Report (QT Reviewed)

Data Path : K:\VOA122\2024\240301A\
Data File : V22240301A05.D
Acq On : 01 Mar 2024 10:07 am
Operator : VOA122:PID
Sample : WG1891888-5,31,10,10 (Sig #1); METHOD BLK (Sig #2)
Misc : WG1891888,ICAL20803 (Sig #1); WG,ICAL20803 (Sig #2)
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 01 13:22:34 2024
Quant Method : K:\VOA122\2024\240301A\V122_240122N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jan 24 07:06:18 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA122\2024\240301A\V22240301A01.D
Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	5.990	96	472354	10.000	ug/L	0.00
Standard Area 1 = 514325			Recovery = 91.84%			
62) Chlorobenzene-d5	9.533	117	424434	10.000	ug/L	0.00
Standard Area 1 = 441026			Recovery = 96.24%			
83) 1,4-Dichlorobenzene-d4	12.243	152	213978	10.000	ug/L	0.00
Standard Area 1 = 230262			Recovery = 92.93%			
System Monitoring Compounds						
38) Dibromofluoromethane	5.177	113	180781	10.882	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 108.82%			
46) 1,2-Dichloroethane-d4	5.701	65	167681	10.993	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 109.93%			
63) Toluene-d8	7.689	98	541284	10.226	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 102.26%			
87) 4-Bromofluorobenzene	11.033	95	194272	9.876	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 98.76%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.454	85	131	N.D.		
3) Chloromethane	1.815	50	340	N.D.		
4) Vinyl chloride	0.000		0	N.D.		
5) Bromomethane	2.202	94	370	N.D.		
6) Chloroethane	0.000		0	N.D.		
7) Trichlorofluoromethane	0.000		0	N.D.		
10) 1,1-Dichloroethene	0.000		0	N.D.		
11) Carbon disulfide	2.975	76	748	N.D.		
12) Freon-113	0.000		0	N.D.		
15) Methylene chloride	3.493	84	518	N.D.		
17) Acetone	0.000		0	N.D.	d	
18) trans-1,2-Dichloroethene	0.000		0	N.D.		
19) Methyl acetate	0.000		0	N.D.	d	
21) Methyl tert-butyl ether	0.000		0	N.D.		
25) 1,1-Dichloroethane	0.000		0	N.D.		
30) cis-1,2-Dichloroethene	4.830	96	208	N.D.		
32) Bromochloromethane	0.000		0	N.D.		
33) Cyclohexane	0.000		0	N.D.		
34) Chloroform	0.000		0	N.D.		
36) Carbon tetrachloride	0.000		0	N.D.		

Data Path : K:\VOA122\2024\240301A\
Data File : V22240301A05.D
Acq On : 01 Mar 2024 10:07 am
Operator : VOA122:PID
Sample : WG1891888-5,31,10,10 (Sig #1); METHOD BLK (Sig #2)
Misc : WG1891888,ICAL20803 (Sig #1); WG,ICAL20803 (Sig #2)
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 01 13:22:34 2024
Quant Method : K:\VOA122\2024\240301A\V122_240122N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jan 24 07:06:18 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA122\2024\240301A\V22240301A01.D
Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
39)	1,1,1-Trichloroethane	0.000		0		N.D.	
41)	2-Butanone	0.000		0		N.D.	
44)	Benzene	0.000		0		N.D.	
47)	1,2-Dichloroethane	0.000		0		N.D.	
50)	Methyl cyclohexane	0.000		0		N.D.	
51)	Trichloroethene	6.094	95	288		N.D.	
54)	1,2-Dichloropropane	0.000		0		N.D.	
57)	Bromodichloromethane	0.000		0		N.D.	
60)	1,4-Dioxane	0.000		0		N.D.	
61)	cis-1,3-Dichloropropene	0.000		0		N.D.	
64)	Toluene	0.000		0		N.D.	
65)	4-Methyl-2-pentanone	0.000		0		N.D.	
66)	Tetrachloroethene	0.000		0		N.D.	
68)	trans-1,3-Dichloropropene	0.000		0		N.D.	
71)	1,1,2-Trichloroethane	0.000		0		N.D.	
72)	Chlorodibromomethane	0.000		0		N.D.	
74)	1,2-Dibromoethane	0.000		0		N.D.	
76)	2-Hexanone	0.000		0		N.D.	
77)	Chlorobenzene	0.000		0		N.D.	
78)	Ethylbenzene	9.540	91	746		N.D.	
80)	p/m Xylene	0.000		0		N.D.	
81)	o Xylene	0.000		0		N.D.	
82)	Styrene	0.000		0		N.D.	
84)	Bromoform	0.000		0		N.D.	
86)	Isopropylbenzene	0.000		0		N.D.	
91)	1,1,2,2-Tetrachloroethane	0.000		0		N.D.	
104)	1,3-Dichlorobenzene	0.000		0		N.D.	
105)	1,4-Dichlorobenzene	0.000		0		N.D.	
108)	1,2-Dichlorobenzene	0.000		0		N.D.	
110)	1,2-Dibromo-3-chloropr...	0.000		0		N.D.	
113)	1,2,4-Trichlorobenzene	0.000		0		N.D.	
115)	1,2,3-Trichlorobenzene	14.561	180	69		N.D.	

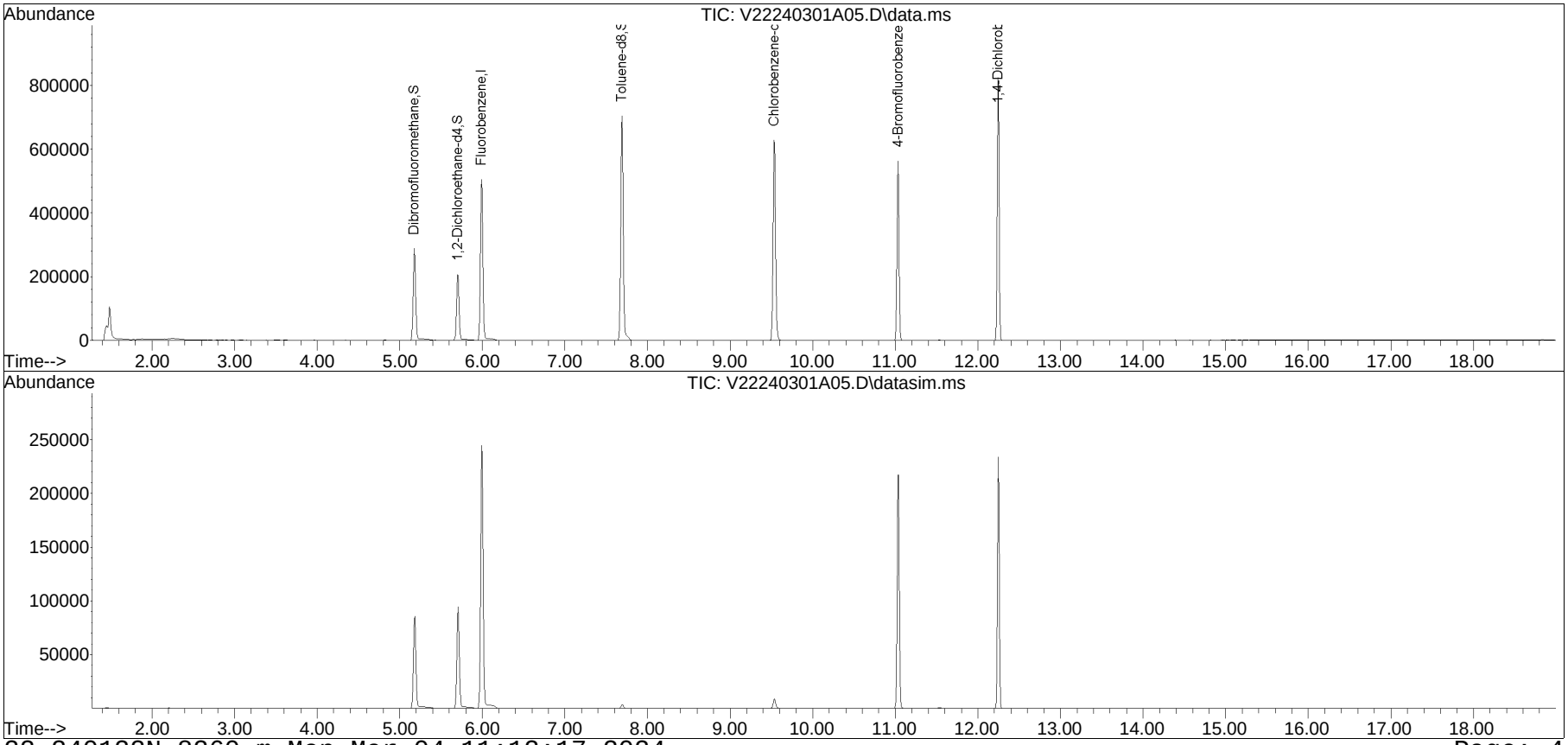
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : K:\VOA122\2024\240301A\
Data File : V22240301A05.D
Acq On : 01 Mar 2024 10:07 am
Operator : VOA122:PID
Sample : WG1891888-5,31,10,10 (Sig #1); METHOD BLK (Sig #2)
Misc : WG1891888,ICAL20803 (Sig #1); WG,ICAL20803 (Sig #2)
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 01 13:22:34 2024
Quant Method : K:\VOA122\2024\240301A\V122_240122N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jan 24 07:06:18 2024
Response via : Initial Calibration

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



Manual Integration Report

Data Path	: K:\VOA122\2024\240301A\	QMethod	: V122_240122N_8260.m
Data File	: V22240301A05.D	Operator	: VOA122:PID
Date Inj'd	: 3/1/2024 10:07 am	Instrument	: VOA 122
Sample	: WG1891888-5,31,10,10	Quant Date	: 3/1/2024 1:20 pm

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

Quantitation Report (QT Reviewed)

Data Path : K:\VOA122\2024\240301A\
Data File : V22240301A01.D
Acq On : 01 Mar 2024 08:30 am
Operator : VOA122:PID
Sample : WG1891888-3,31,10,10 (Sig #1); 8260 CCAL (Sig #2)
Misc : WG1891888,ICAL20803 (Sig #1); WG,ICAL20803 (Sig #2)
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 01 09:44:56 2024
Quant Method : K:\VOA122\2024\240301A\V122_240122N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jan 24 07:06:18 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA122\2024\240301A\V22240301A01.D
Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	5.990	96	514325	10.000	ug/L	0.00
Standard Area 1 = 514325			Recovery = 100.00%			
62) Chlorobenzene-d5	9.533	117	441026	10.000	ug/L	0.00
Standard Area 1 = 441026			Recovery = 100.00%			
83) 1,4-Dichlorobenzene-d4	12.244	152	230262	10.000	ug/L	0.00
Standard Area 1 = 230262			Recovery = 100.00%			
System Monitoring Compounds						
38) Dibromofluoromethane	5.177	113	183662	10.153	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 101.53%			
46) 1,2-Dichloroethane-d4	5.702	65	178845	10.768	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 107.68%			
63) Toluene-d8	7.689	98	560478	10.190	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 101.90%			
87) 4-Bromofluorobenzene	11.034	95	204900	9.679	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 96.79%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.638	85	90919	10.845	ug/L	98
3) Chloromethane	1.822	50	151060	11.636	ug/L	97
4) Vinyl chloride	1.894	62	125672	11.659	ug/L	97
5) Bromomethane	2.202	94	36057	5.554	ug/L	100
6) Chloroethane	2.320	64	70245	11.710	ug/L	96
7) Trichlorofluoromethane	2.464	101	131767	11.407	ug/L	99
10) 1,1-Dichloroethene	2.949	96	82888	11.305	ug/L #	63
11) Carbon disulfide	2.975	76	268064	11.293	ug/L	100
12) Freon-113	2.988	101	78807	11.581	ug/L	95
15) Methylene chloride	3.493	84	90786	10.029	ug/L #	55
17) Acetone	3.526	43	15155	9.894	ug/L	99
18) trans-1,2-Dichloroethene	3.644	96	86515	10.389	ug/L #	70
19) Methyl acetate	3.650	43	34756	10.607	ug/L #	89
21) Methyl tert-butyl ether	3.742	73	118307	9.035	ug/L #	81
25) 1,1-Dichloroethane	4.221	63	195064	11.515	ug/L	95
30) cis-1,2-Dichloroethene	4.738	96	94111	10.095	ug/L #	71
32) Bromochloromethane	4.928	128	42171	9.868	ug/L #	63
33) Cyclohexane	4.941	56	198773	13.249	ug/L #	61
34) Chloroform	5.000	83	144095	9.690	ug/L	96
36) Carbon tetrachloride	5.145	117	112022	9.807	ug/L	98

Quantitation Report (QT Reviewed)

Data Path : K:\VOA122\2024\240301A\
Data File : V22240301A01.D
Acq On : 01 Mar 2024 08:30 am
Operator : VOA122:PID
Sample : WG1891888-3,31,10,10 (Sig #1); 8260 CCAL (Sig #2)
Misc : WG1891888,ICAL20803 (Sig #1); WG,ICAL20803 (Sig #2)
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 01 09:44:56 2024
Quant Method : K:\VOA122\2024\240301A\V122_240122N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jan 24 07:06:18 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA122\2024\240301A\V22240301A01.D
Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
39) 1,1,1-Trichloroethane	5.204	97	128052	9.773	ug/L		94
41) 2-Butanone	5.289	43	16568	8.637	ug/L	#	84
44) Benzene	5.571	78	313421	10.399	ug/L	#	90
47) 1,2-Dichloroethane	5.774	62	81599	9.964	ug/L		97
50) Methyl cyclohexane	6.167	83	105049	10.462	ug/L	#	53
51) Trichloroethene	6.167	95	62520	8.925	ug/L		99
54) 1,2-Dichloropropane	6.709	63	70410	10.345	ug/L		93
57) Bromodichloromethane	6.779	83	76690	8.700	ug/L		98
60) 1,4-Dioxane	6.987	88	18224	440.147	ug/L	#	49
61) cis-1,3-Dichloropropene	7.474	75	78766	8.555	ug/L	#	89
64) Toluene	7.745	92	166806	9.797	ug/L		97
65) 4-Methyl-2-pentanone	8.175	58	11121	8.564	ug/L	#	89
66) Tetrachloroethene	8.196	166	75469	10.459	ug/L		96
68) trans-1,3-Dichloropropene	8.224	75	64703	7.952	ug/L		89
71) 1,1,2-Trichloroethane	8.412	83	31596	8.089	ug/L		96
72) Chlorodibromomethane	8.621	129	46672	7.475	ug/L		99
74) 1,2-Dibromoethane	8.895	107	37614	8.403	ug/L		100
76) 2-Hexanone	9.189	43	19336	8.255	ug/L		94
77) Chlorobenzene	9.554	112	185640	9.409	ug/L		93
78) Ethylbenzene	9.603	91	332116	10.045	ug/L		99
80) p/m Xylene	9.792	106	256461	19.553	ug/L		97
81) o Xylene	10.332	106	240195	19.009	ug/L		95
82) Styrene	10.396	104	385395	18.930	ug/L		96
84) Bromoform	10.410	173	23335	6.972	ug/L		97
86) Isopropylbenzene	10.718	105	341872	9.829	ug/L		98
91) 1,1,2,2-Tetrachloroethane	11.272	83	40330	8.636	ug/L		99
104) 1,3-Dichlorobenzene	12.167	146	155589	9.410	ug/L		97
105) 1,4-Dichlorobenzene	12.258	146	148006	9.128	ug/L		98
108) 1,2-Dichlorobenzene	12.682	146	133701	9.130	ug/L		96
110) 1,2-Dibromo-3-chloropr...	13.462	155	6575	6.909	ug/L		99
113) 1,2,4-Trichlorobenzene	14.102	180	87728	10.134	ug/L		98
115) 1,2,3-Trichlorobenzene	14.562	180	75415	10.121	ug/L		99

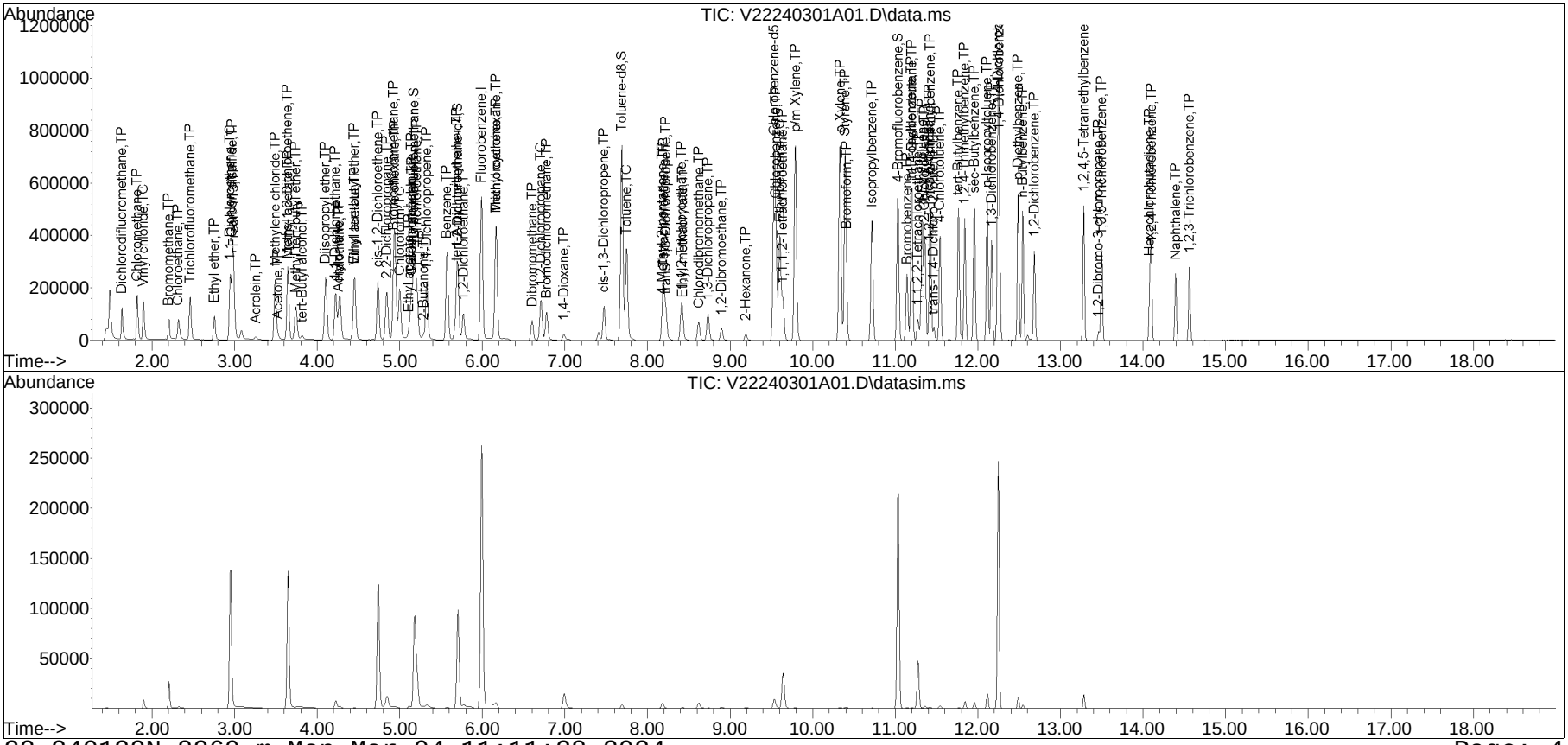
(#) = qualifier out of range (m) = manual integration (+) = signals summed

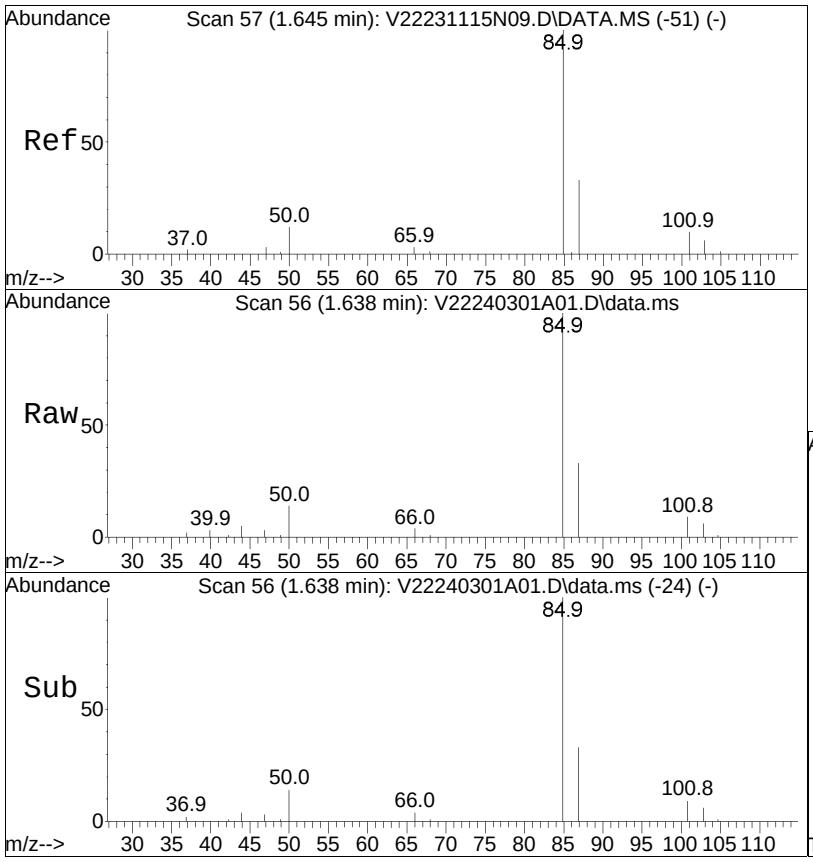
Quantitation Report (QT Reviewed)

Data Path : K:\VOA122\2024\240301A\
Data File : V22240301A01.D
Acq On : 01 Mar 2024 08:30 am
Operator : VOA122:PID
Sample : WG1891888-3,31,10,10 (Sig #1); 8260 CCAL (Sig #2)
Misc : WG1891888,ICAL20803 (Sig #1); WG,ICAL20803 (Sig #2)
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 01 09:44:56 2024
Quant Method : K:\VOA122\2024\240301A\V122_240122N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jan 24 07:06:18 2024
Response via : Initial Calibration

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

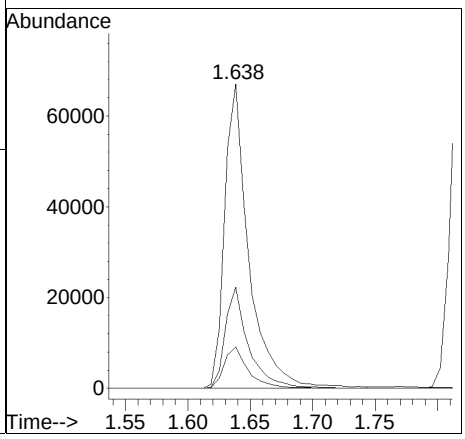


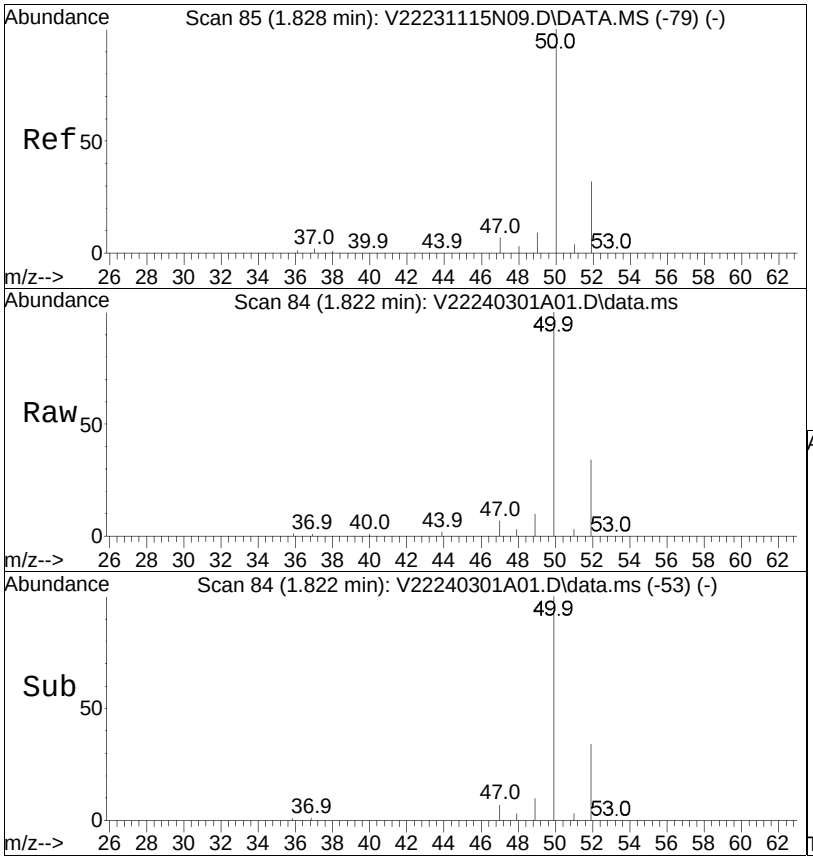


#2
Dichlorodifluoromethane
Concen: 10.85 ug/L
RT: 1.638 min Scan# 56
Delta R.T. 0.007 min
Lab File: V22240301A01.D
Acq: 01 Mar 2024 08:30 am

Tgt Ion: 85 Resp: 90919

Ion	Ratio	Lower	Upper
85	100		
87	31.9	20.7	42.9
50	13.6	6.8	14.2

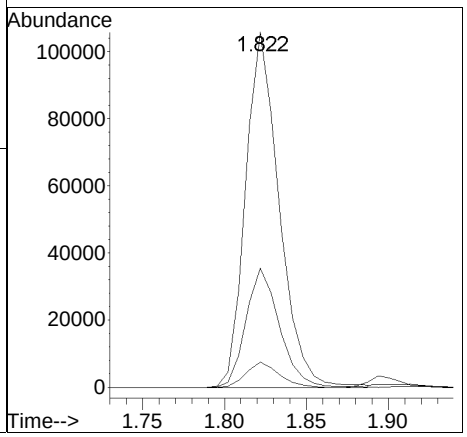


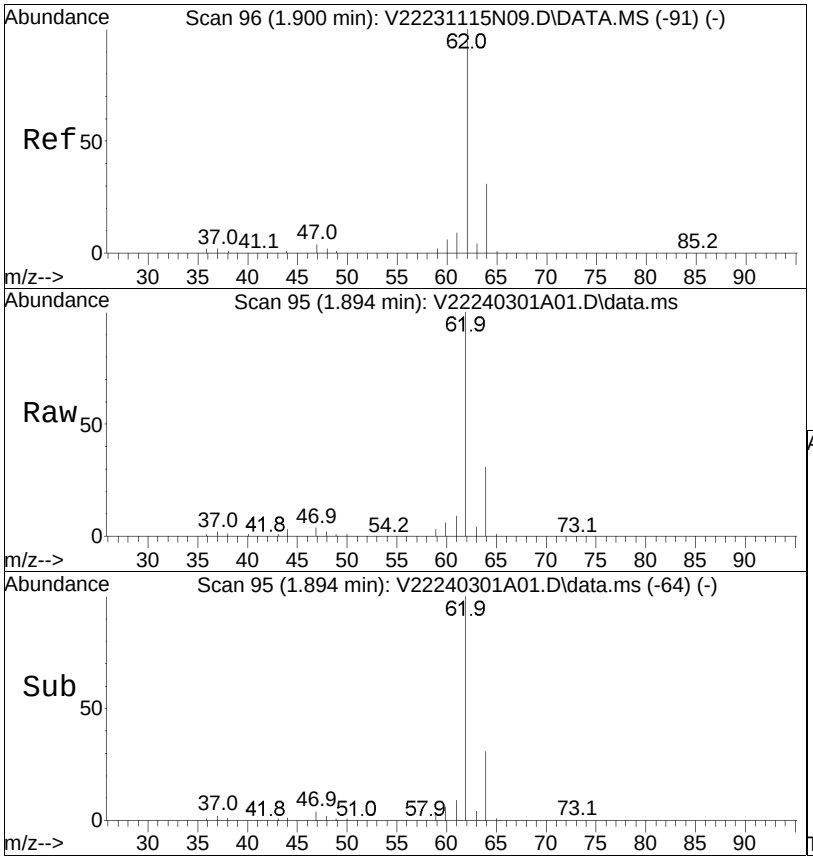


#3
Chloromethane
Concen: 11.64 ug/L
RT: 1.822 min Scan# 84
Delta R.T. 0.000 min
Lab File: V22240301A01.D
Acq: 01 Mar 2024 08:30 am

Tgt Ion: 50 Resp: 151060

Ion	Ratio	Lower	Upper
50	100		
52	33.5	12.8	52.8
47	7.0	0.0	30.0

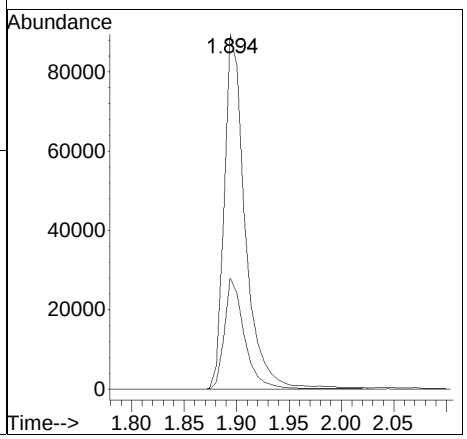


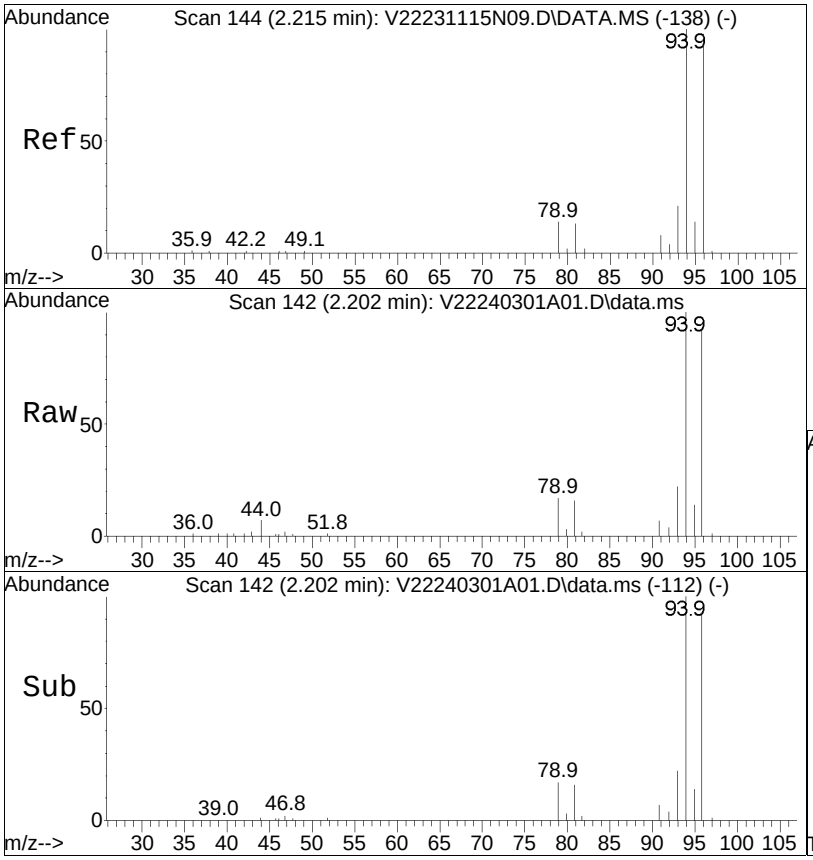


#4
Vinyl chloride
Concen: 11.66 ug/L
RT: 1.894 min Scan# 95
Delta R.T. 0.000 min
Lab File: V22240301A01.D
Acq: 01 Mar 2024 08:30 am

Tgt Ion: 62 Resp: 125672

Ion	Ratio	Lower	Upper
62	100		
64	30.1	12.0	52.0

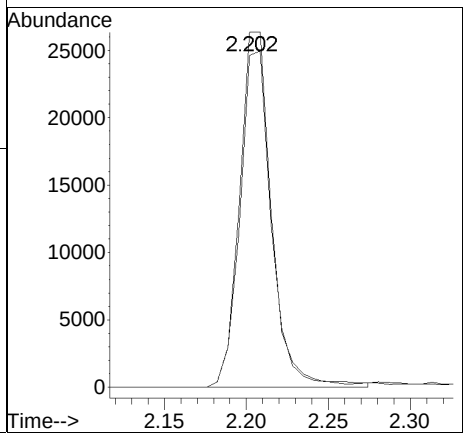


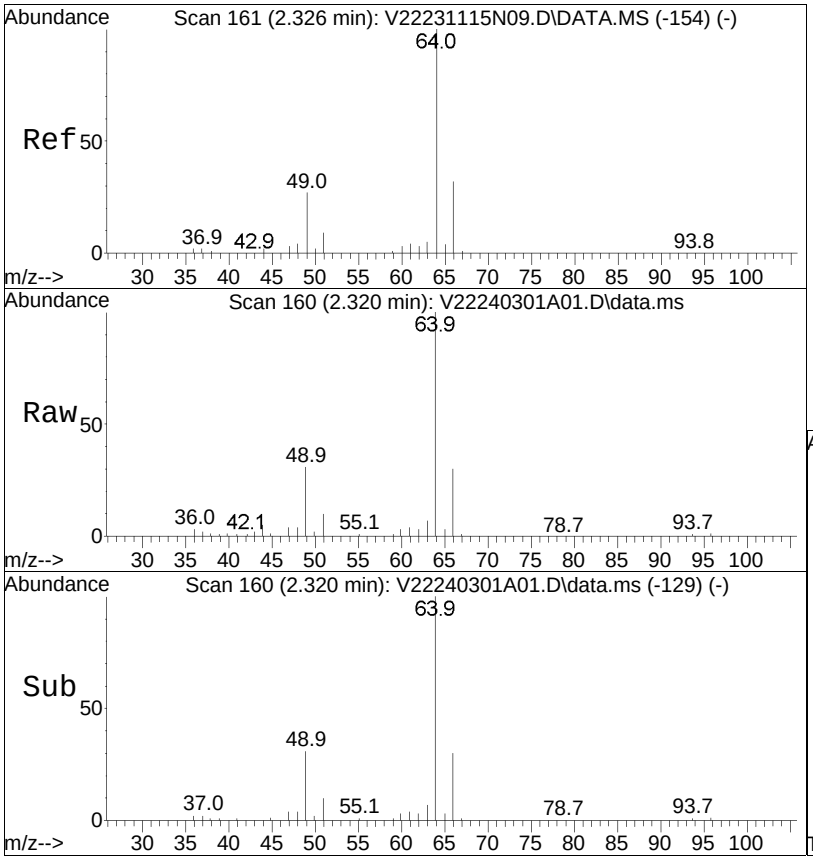


#5
Bromomethane
Concen: 5.55 ug/L
RT: 2.202 min Scan# 142
Delta R.T. -0.006 min
Lab File: V22240301A01.D
Acq: 01 Mar 2024 08:30 am

Tgt Ion: 94 Resp: 36057

Ion	Ratio	Lower	Upper
94	100		
96	92.6	72.8	112.8

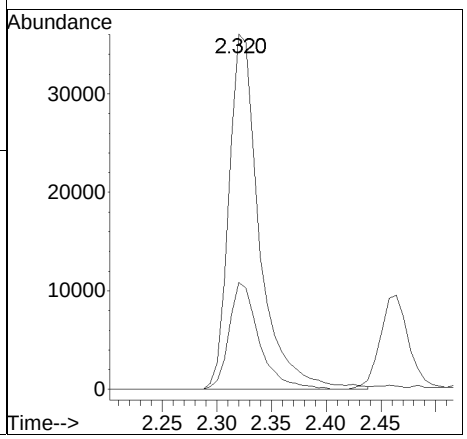


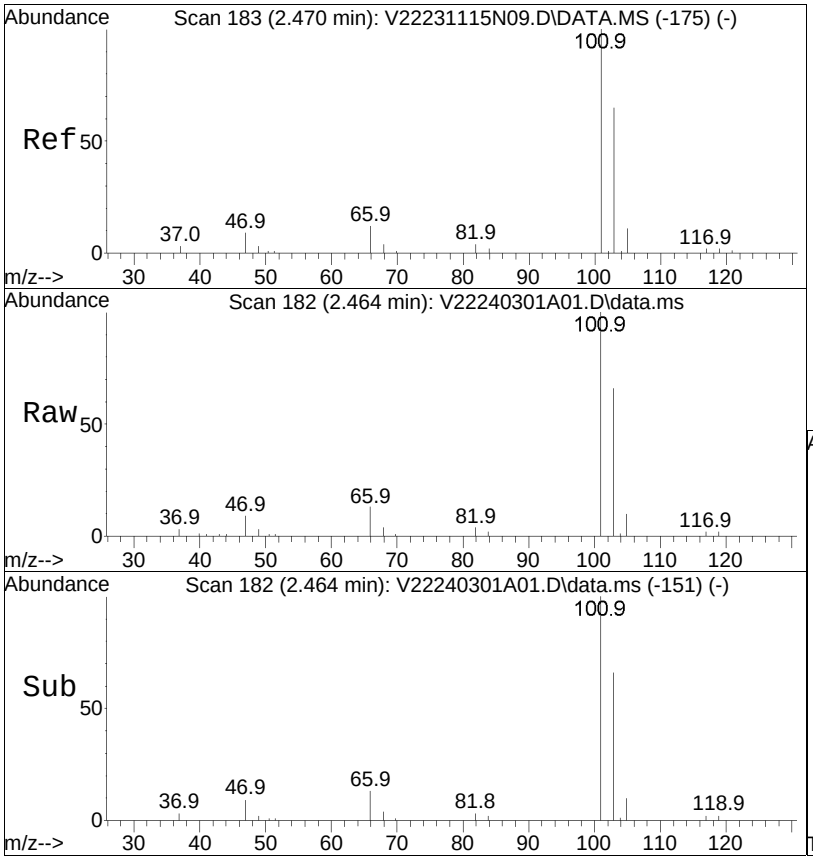


#6
Chloroethane
Concen: 11.71 ug/L
RT: 2.320 min Scan# 160
Delta R.T. 0.000 min
Lab File: V22240301A01.D
Acq: 01 Mar 2024 08:30 am

Tgt Ion: 64 Resp: 70245

Ion	Ratio	Lower	Upper
64	100		
66	29.7	12.2	52.2

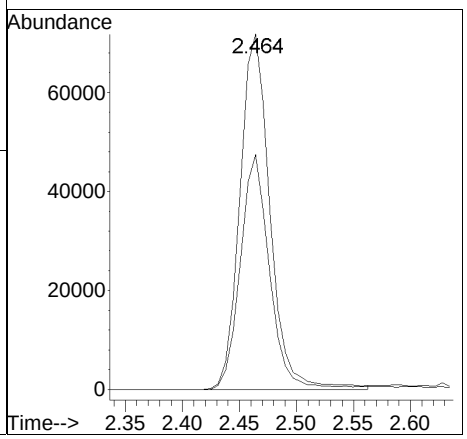


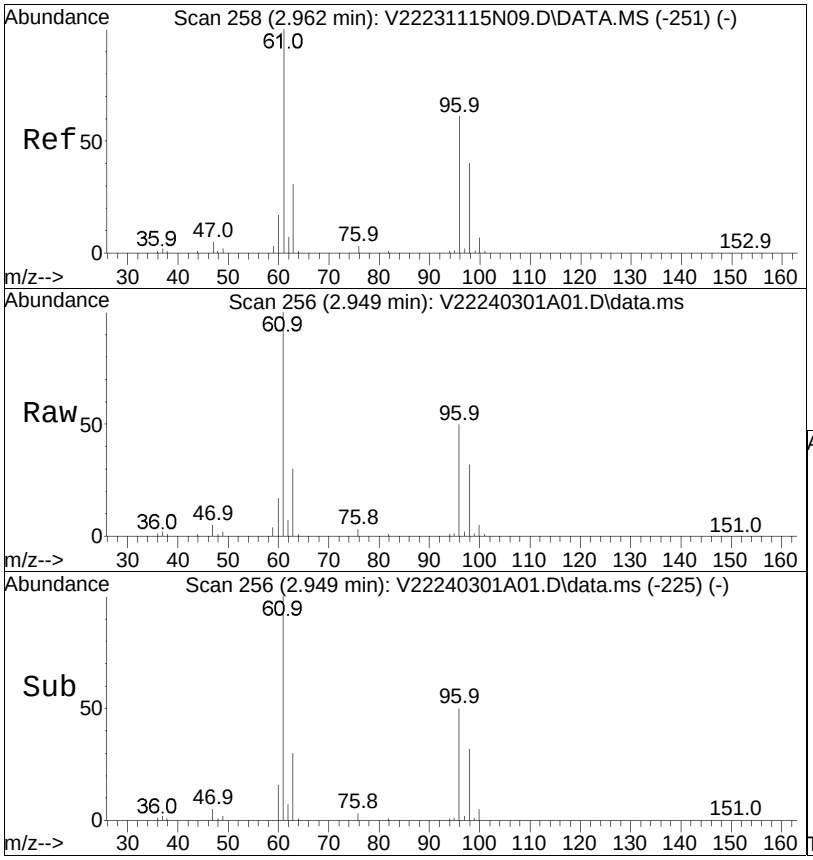


#7
Trichlorofluoromethane
Concen: 11.41 ug/L
RT: 2.464 min Scan# 182
Delta R.T. 0.000 min
Lab File: V22240301A01.D
Acq: 01 Mar 2024 08:30 am

Tgt Ion:101 Resp: 131767

Ion	Ratio	Lower	Upper
101	100		
103	63.7	51.6	77.4

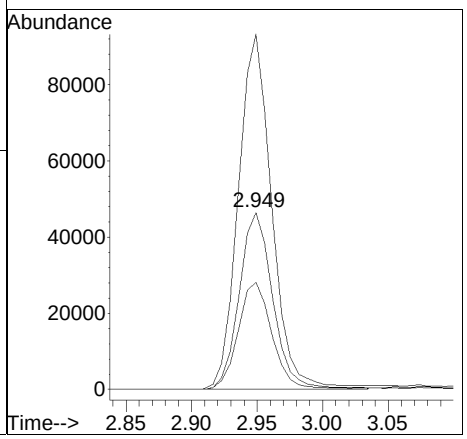


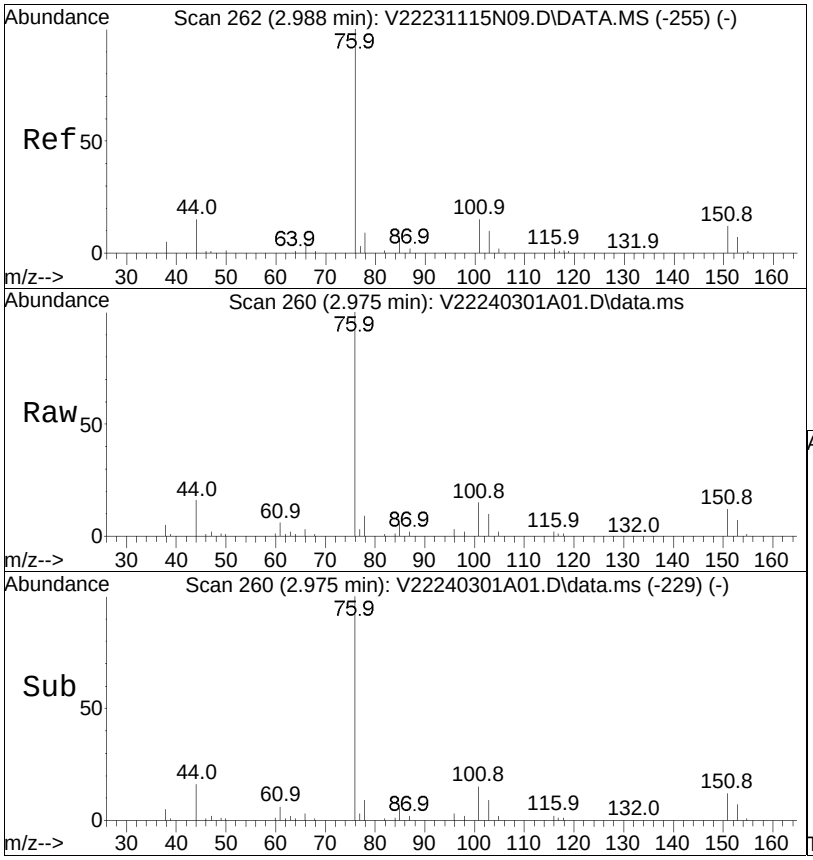


#10
1,1-Dichloroethene
Concen: 11.30 ug/L
RT: 2.949 min Scan# 256
Delta R.T. 0.000 min
Lab File: V22240301A01.D
Acq: 01 Mar 2024 08:30 am

Tgt Ion: 96 Resp: 82888

Ion	Ratio	Lower	Upper
96	100		
61	199.8	117.0	175.4#
63	61.0	37.8	56.6#

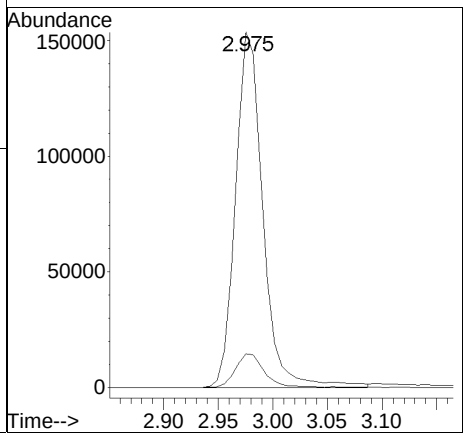


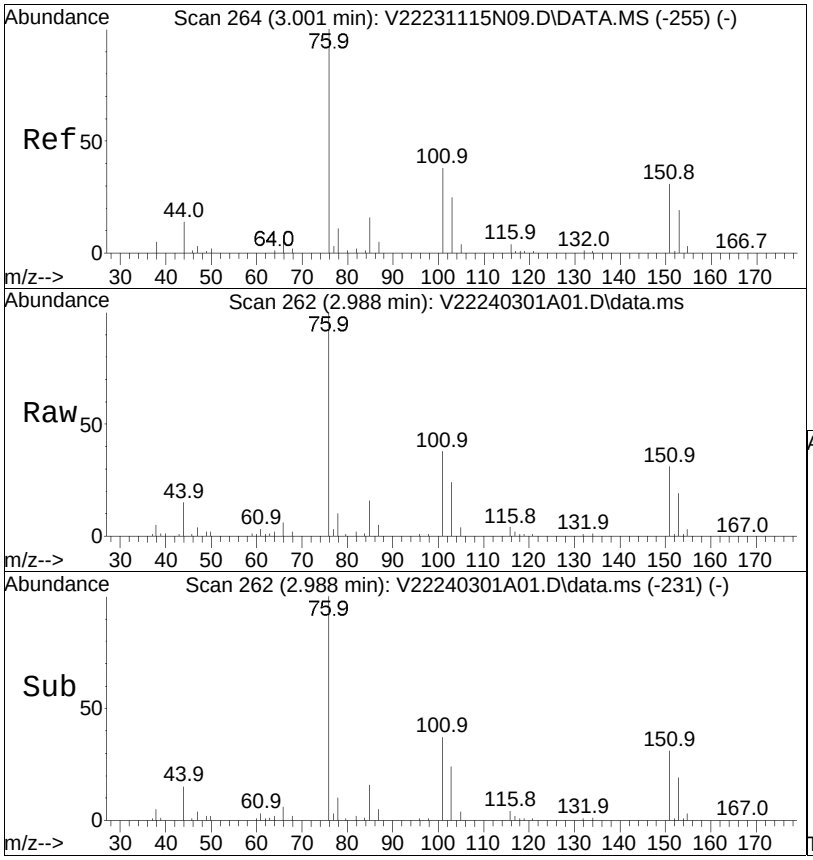


#11
Carbon disulfide
Concen: 11.29 ug/L
RT: 2.975 min Scan# 260
Delta R.T. 0.000 min
Lab File: V22240301A01.D
Acq: 01 Mar 2024 08:30 am

Tgt Ion: 76 Resp: 268064

Ion	Ratio	Lower	Upper
76	100		
78	9.8	6.4	13.4

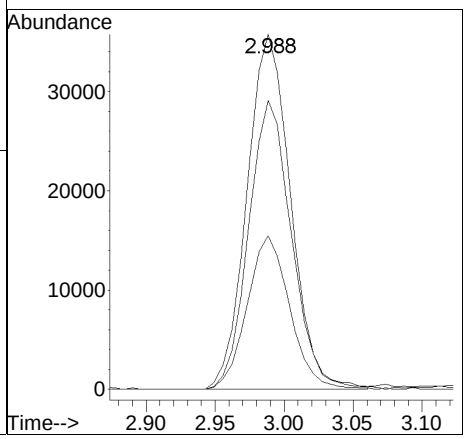


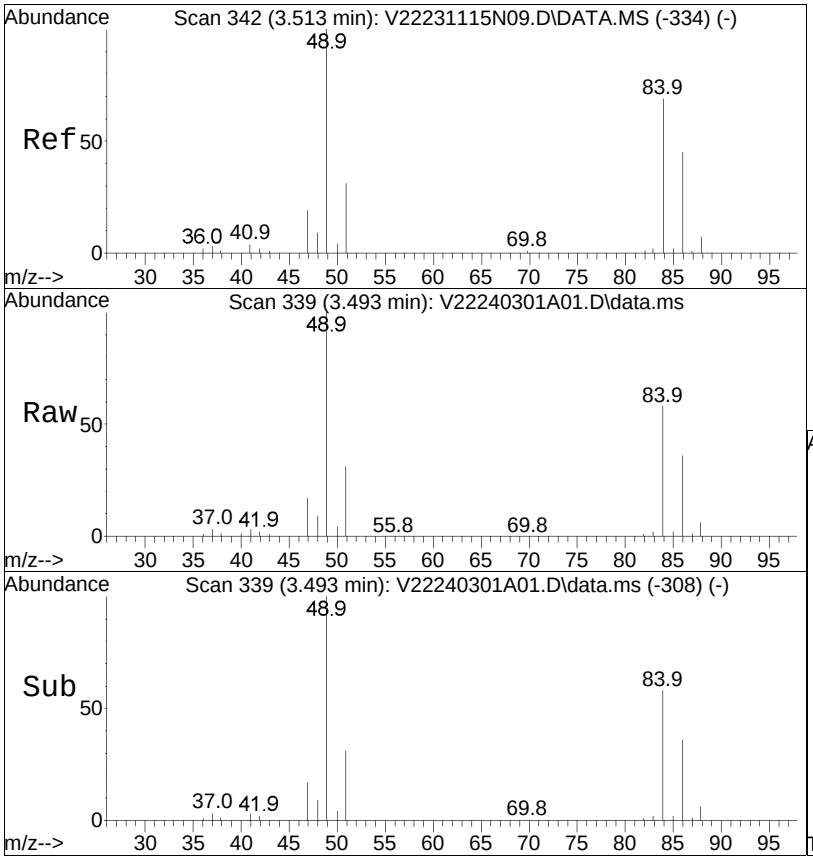


#12
Freon-113
Concen: 11.58 ug/L
RT: 2.988 min Scan# 262
Delta R.T. 0.000 min
Lab File: V22240301A01.D
Acq: 01 Mar 2024 08:30 am

Tgt Ion:101 Resp: 78807

Ion	Ratio	Lower	Upper
101	100		
151	80.1	68.5	102.7
85	42.3	33.1	49.7

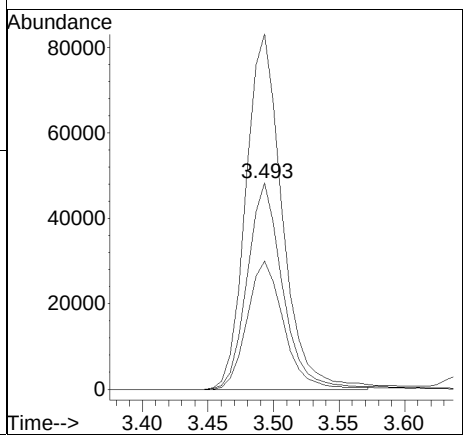


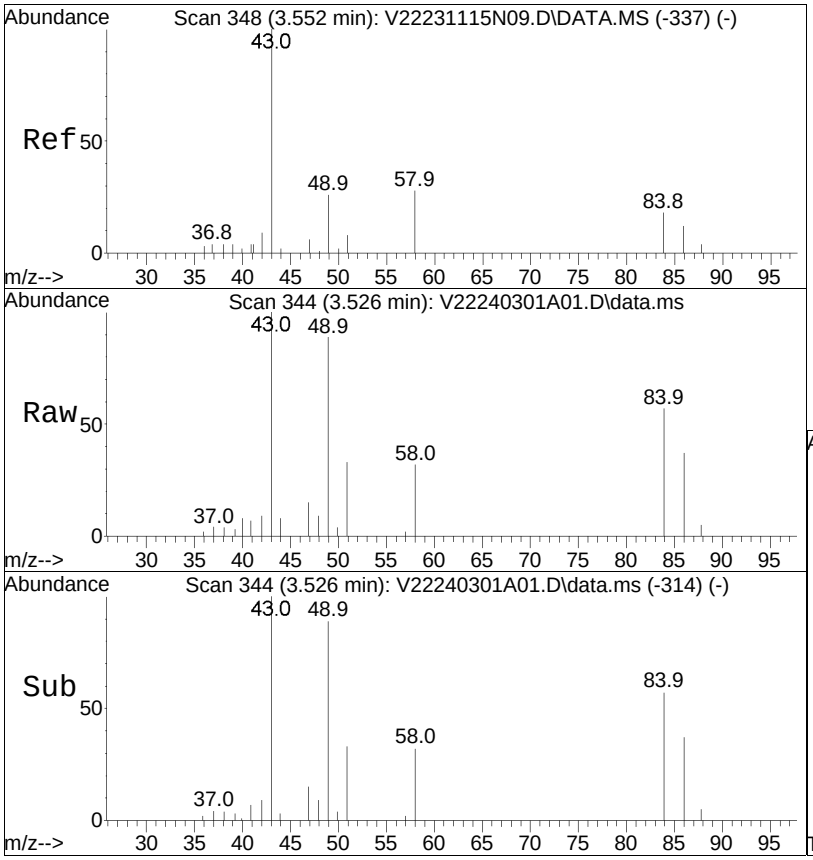


#15
Methylene chloride
Concen: 10.03 ug/L
RT: 3.493 min Scan# 339
Delta R.T. 0.000 min
Lab File: V22240301A01.D
Acq: 01 Mar 2024 08:30 am

Tgt Ion: 84 Resp: 90786

Ion	Ratio	Lower	Upper
84	100		
86	65.5	41.5	86.3
49	178.9	68.8	143.0#

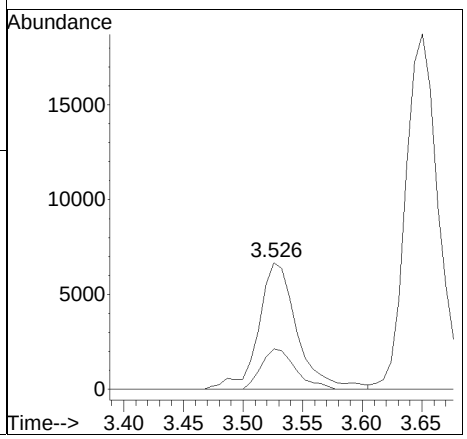


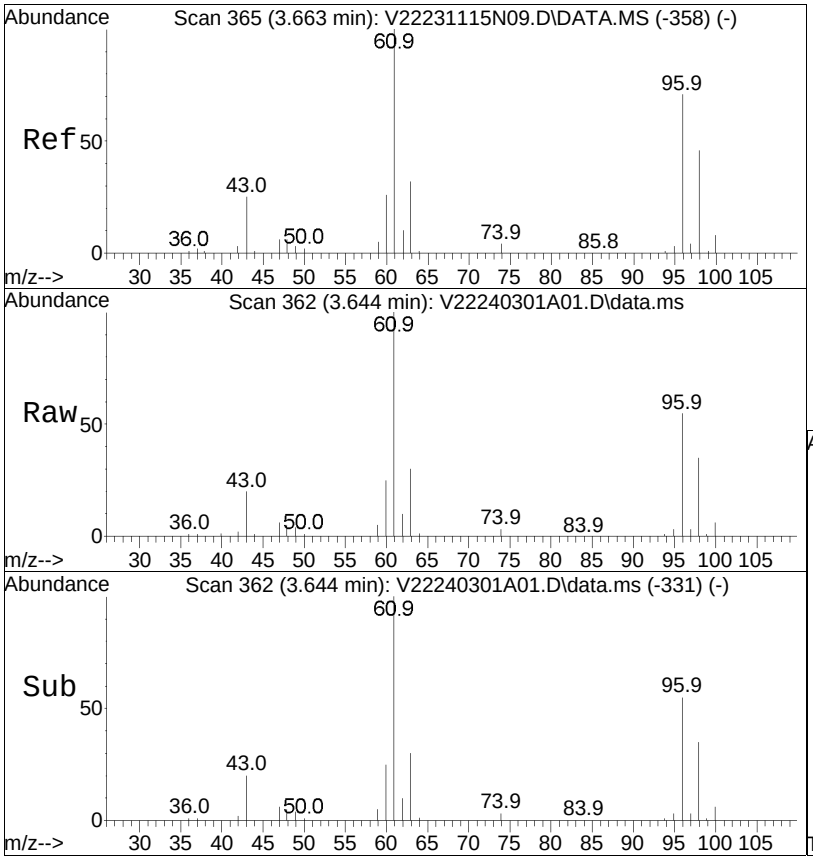


#17
Acetone
Concen: 9.89 ug/L
RT: 3.526 min Scan# 344
Delta R.T. -0.000 min
Lab File: V22240301A01.D
Acq: 01 Mar 2024 08:30 am

Tgt Ion: 43 Resp: 15155

Ion	Ratio	Lower	Upper
43	100		
58	28.6	23.1	34.7

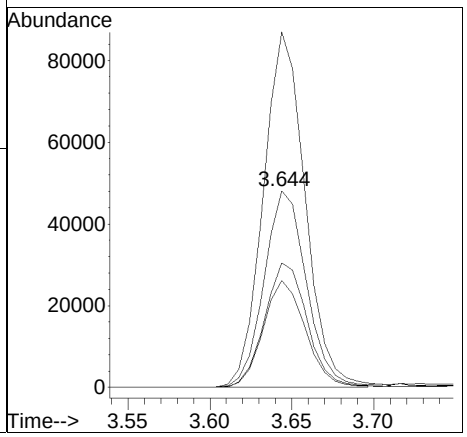


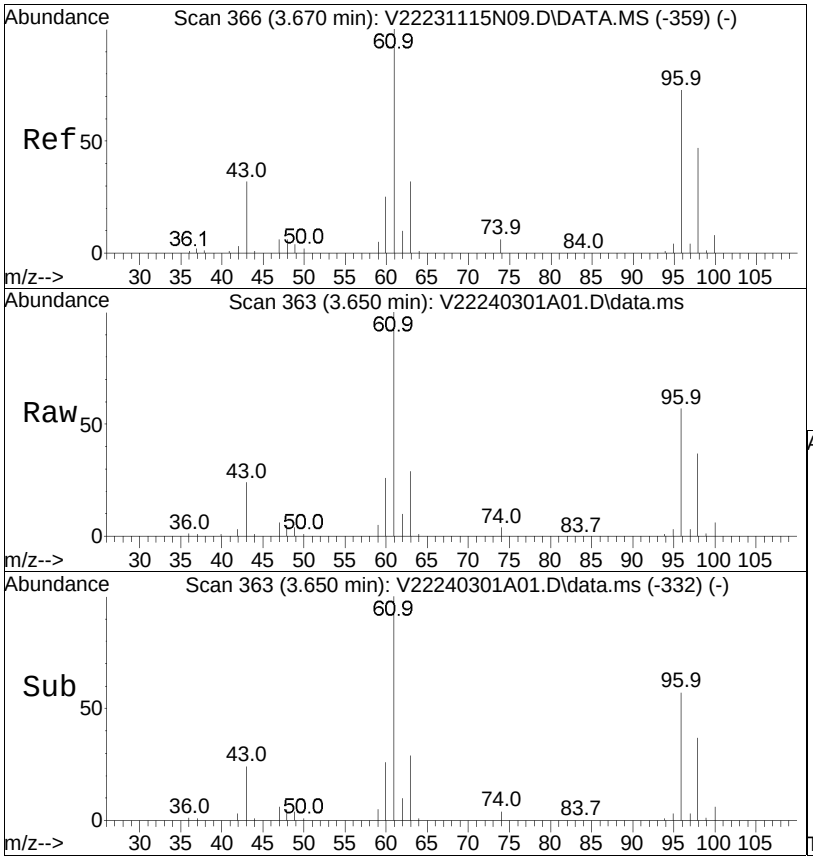


#18
trans-1,2-Dichloroethene
Concen: 10.39 ug/L
RT: 3.644 min Scan# 362
Delta R.T. 0.000 min
Lab File: V22240301A01.D
Acq: 01 Mar 2024 08:30 am

Tgt Ion: 96 Resp: 86515

Ion	Ratio	Lower	Upper
96	100		
61	178.9	81.6	169.6#
98	64.1	41.8	86.8
63	54.6	26.3	54.7

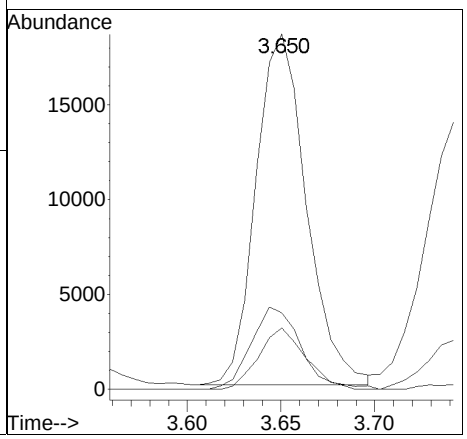


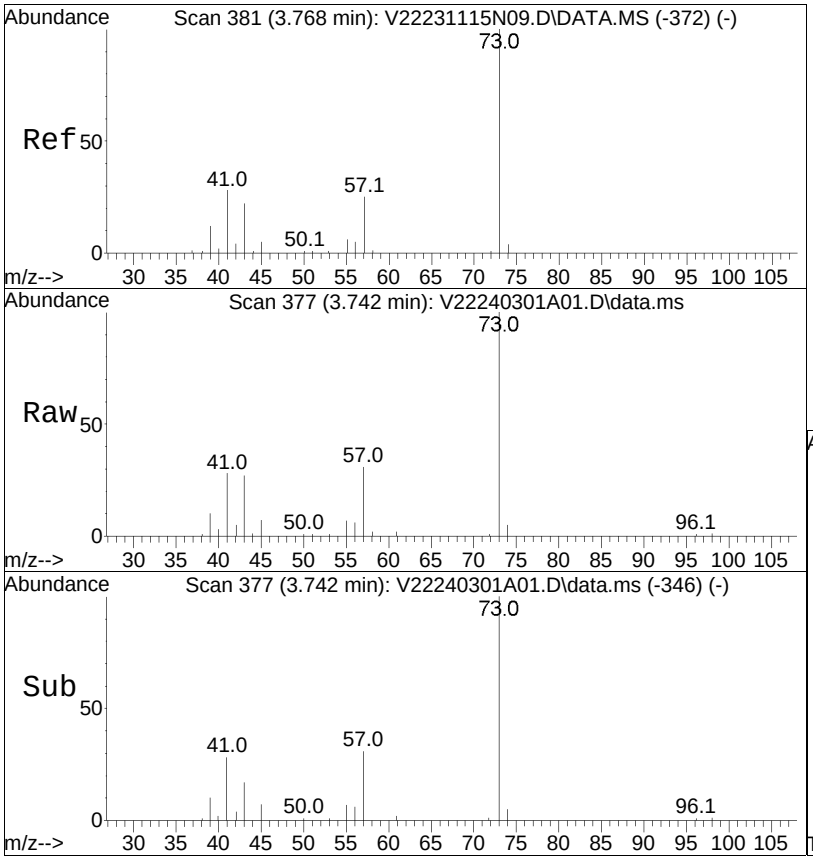


#19
Methyl acetate
Concen: 10.61 ug/L
RT: 3.650 min Scan# 363
Delta R.T. 0.000 min
Lab File: V22240301A01.D
Acq: 01 Mar 2024 08:30 am

Tgt Ion: 43 Resp: 34756

Ion	Ratio	Lower	Upper
43	100		
74	16.6	21.8	32.6#
59	22.7	18.1	27.1

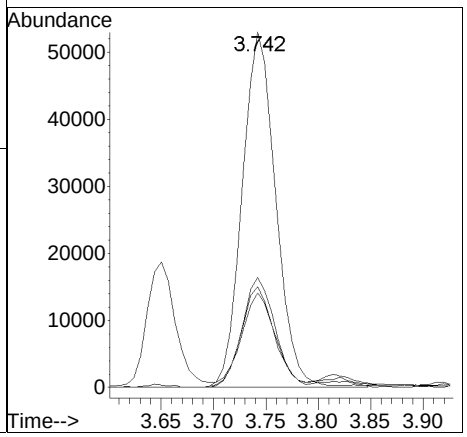


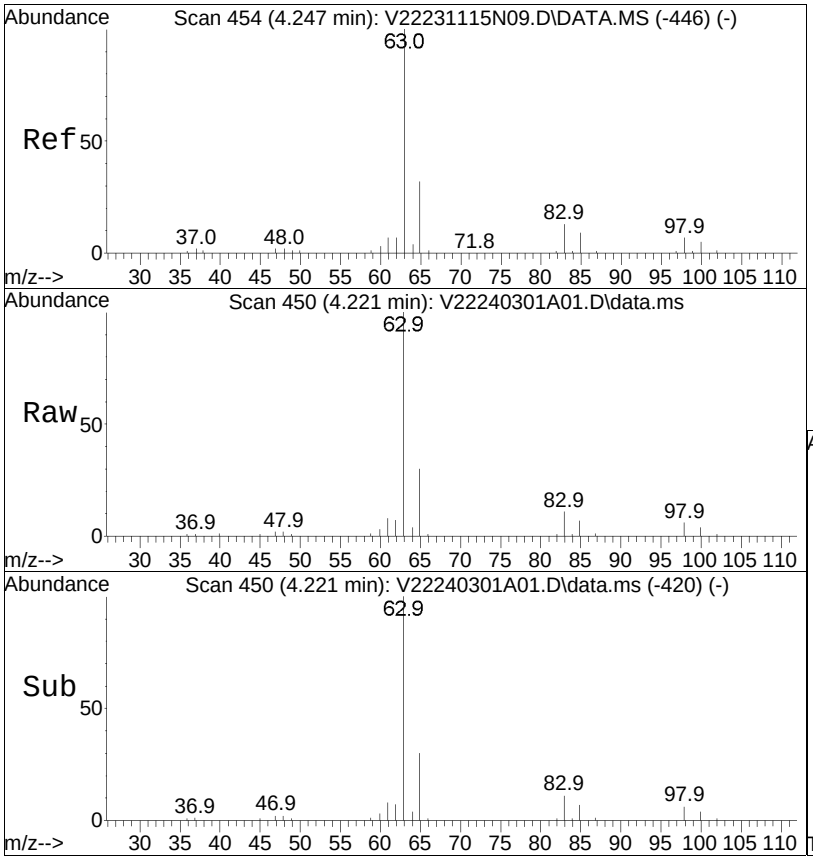


#21
Methyl tert-butyl ether
Concen: 9.04 ug/L
RT: 3.742 min Scan# 377
Delta R.T. 0.000 min
Lab File: V22240301A01.D
Acq: 01 Mar 2024 08:30 am

Tgt Ion: 73 Resp: 118307

Ion	Ratio	Lower	Upper
73	100		
57	30.3	13.6	28.2#
43	26.0	12.7	26.5
41	28.1	11.4	23.8#

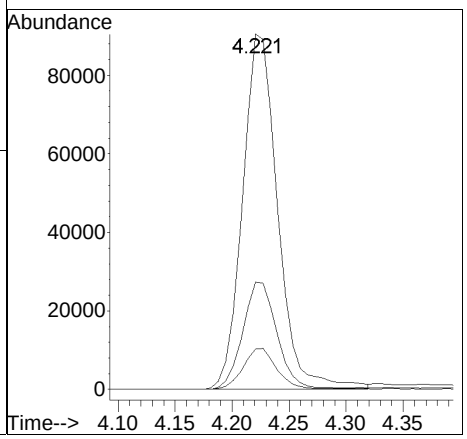


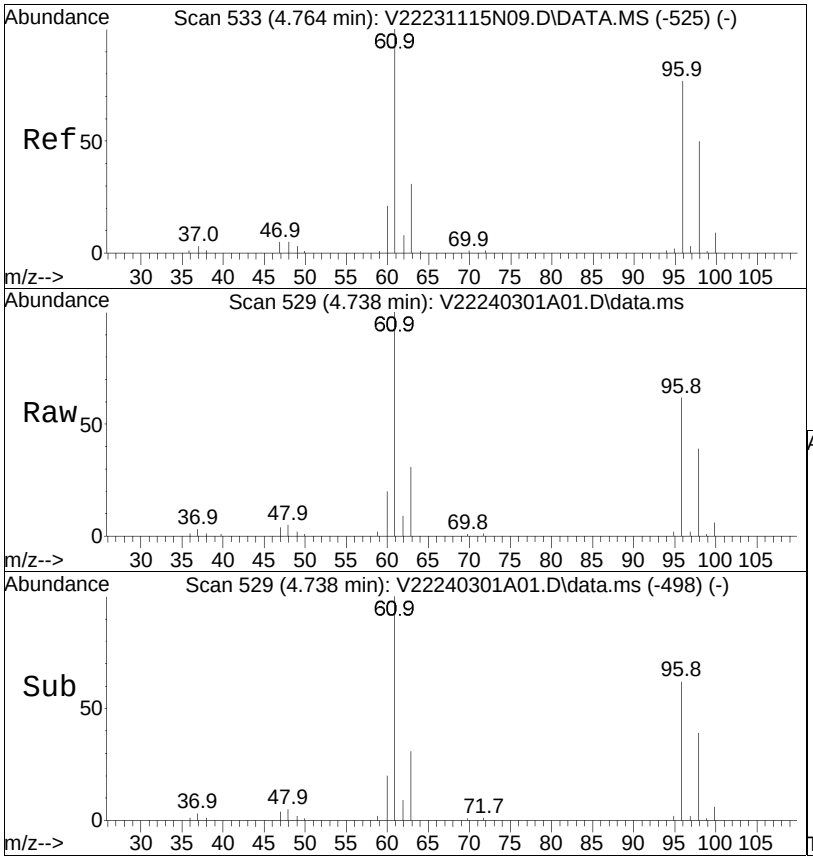


#25
1,1-Dichloroethane
Concen: 11.52 ug/L
RT: 4.221 min Scan# 450
Delta R.T. -0.006 min
Lab File: V22240301A01.D
Acq: 01 Mar 2024 08:30 am

Tgt Ion: 63 Resp: 195064

Ion	Ratio	Lower	Upper
63	100		
65	29.4	11.9	51.9
83	11.0	0.0	34.2

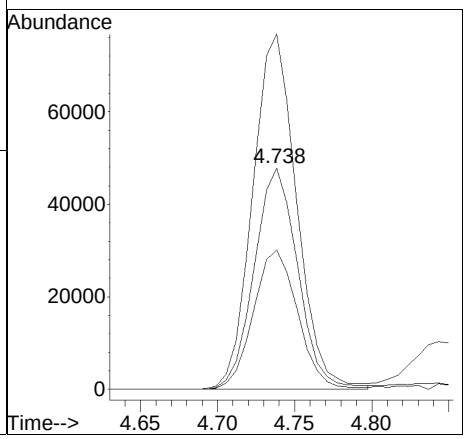


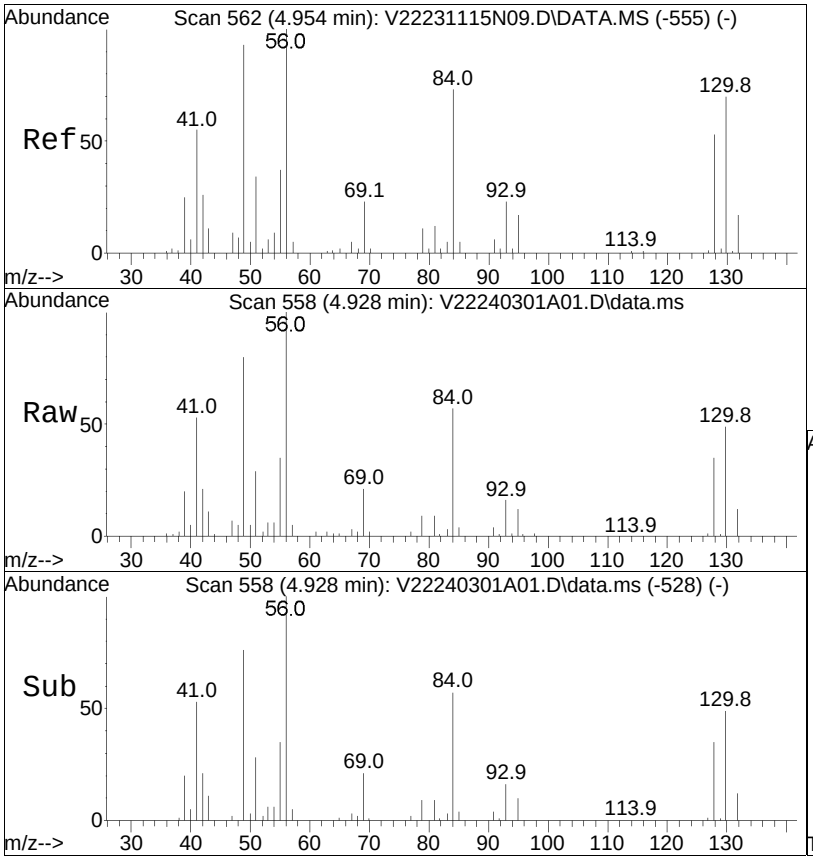


#30
cis-1,2-Dichloroethene
Concen: 10.10 ug/L
RT: 4.738 min Scan# 529
Delta R.T. 0.000 min
Lab File: V22240301A01.D
Acq: 01 Mar 2024 08:30 am

Tgt Ion: 96 Resp: 94111

Ion	Ratio	Lower	Upper
96	100		
61	161.0	90.3	135.5#
98	64.2	50.8	76.2

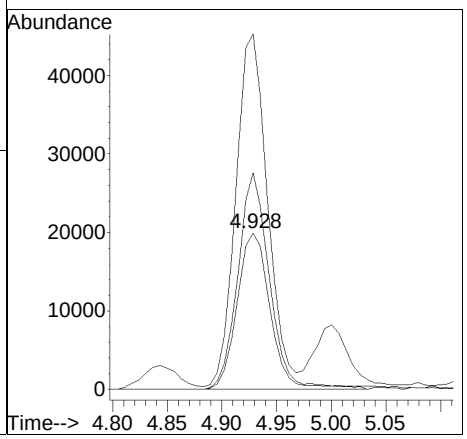


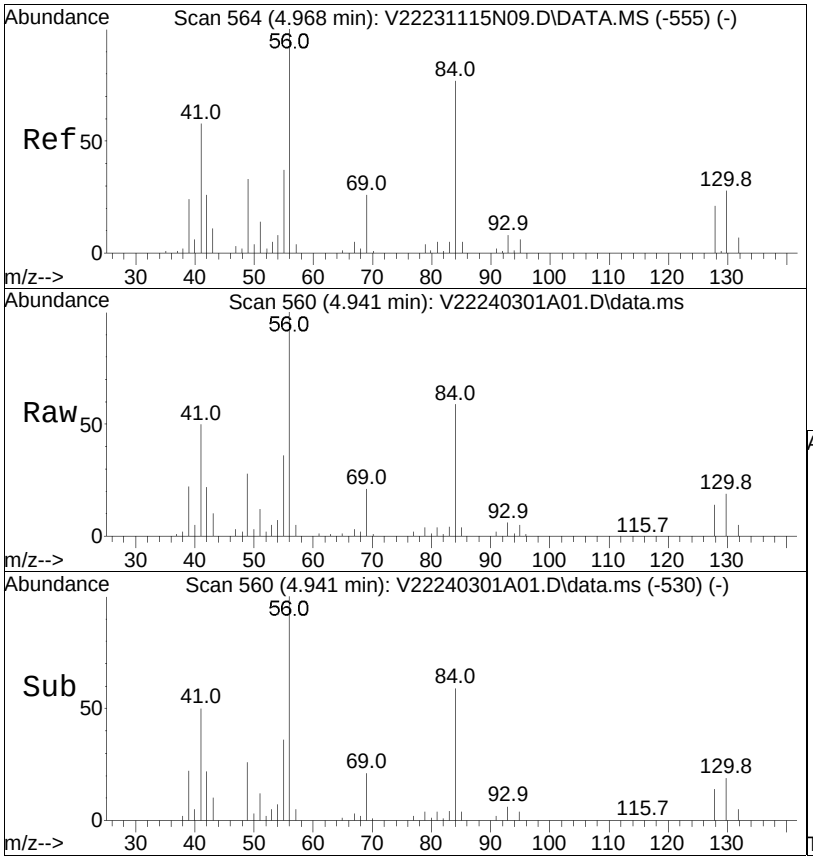


#32
Bromochloromethane
Concen: 9.87 ug/L
RT: 4.928 min Scan# 558
Delta R.T. -0.006 min
Lab File: V22240301A01.D
Acq: 01 Mar 2024 08:30 am

Tgt Ion:128 Resp: 42171

Ion	Ratio	Lower	Upper
128	100		
49	214.4	104.4	156.6#
130	131.8	103.9	155.9

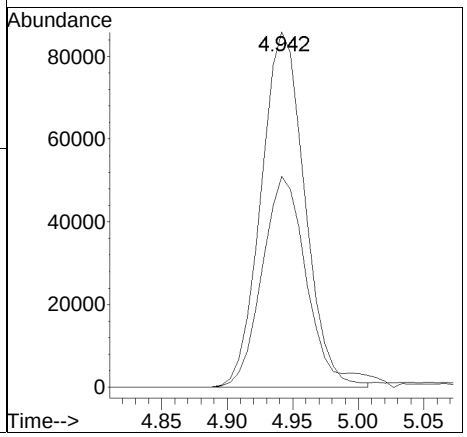


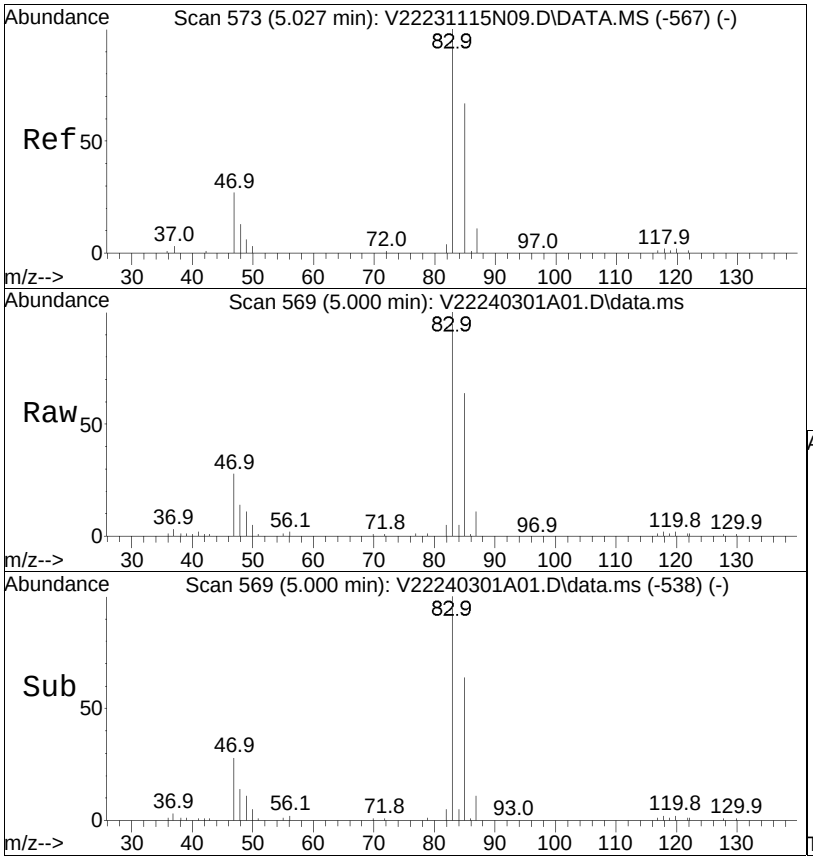


#33
Cyclohexane
Concen: 13.25 ug/L
RT: 4.941 min Scan# 560
Delta R.T. -0.006 min
Lab File: V22240301A01.D
Acq: 01 Mar 2024 08:30 am

Tgt Ion: 56 Resp: 198773

Ion	Ratio	Lower	Upper
56	100		
84	62.1	66.0	137.2#

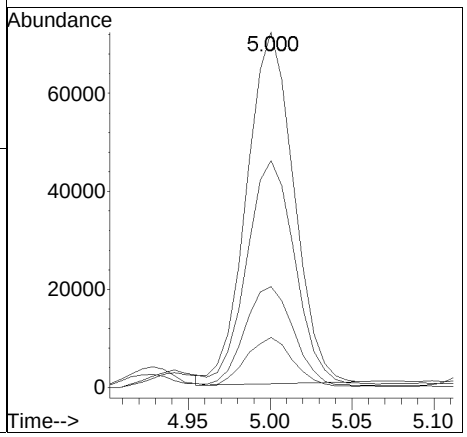


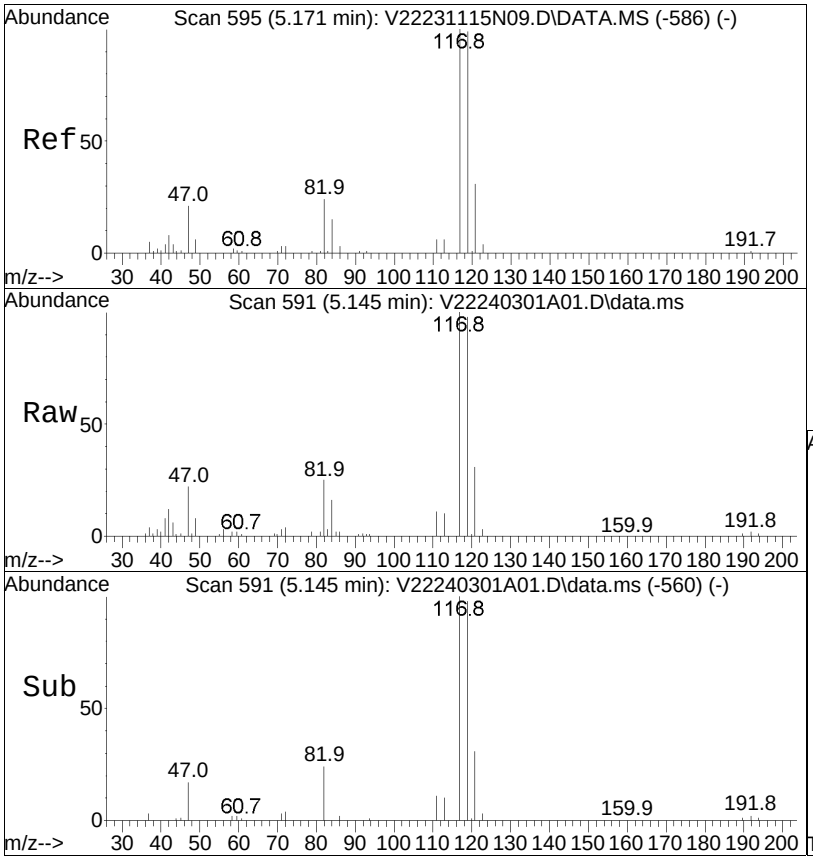


#34
Chloroform
Concen: 9.69 ug/L
RT: 5.000 min Scan# 569
Delta R.T. 0.000 min
Lab File: V22240301A01.D
Acq: 01 Mar 2024 08:30 am

Tgt Ion: 83 Resp: 144095

Ion	Ratio	Lower	Upper
83	100		
85	65.2	42.4	88.2
47	28.8	14.0	29.0
48	13.9	6.9	14.3

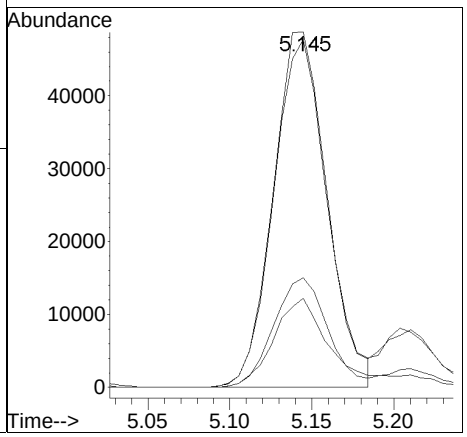


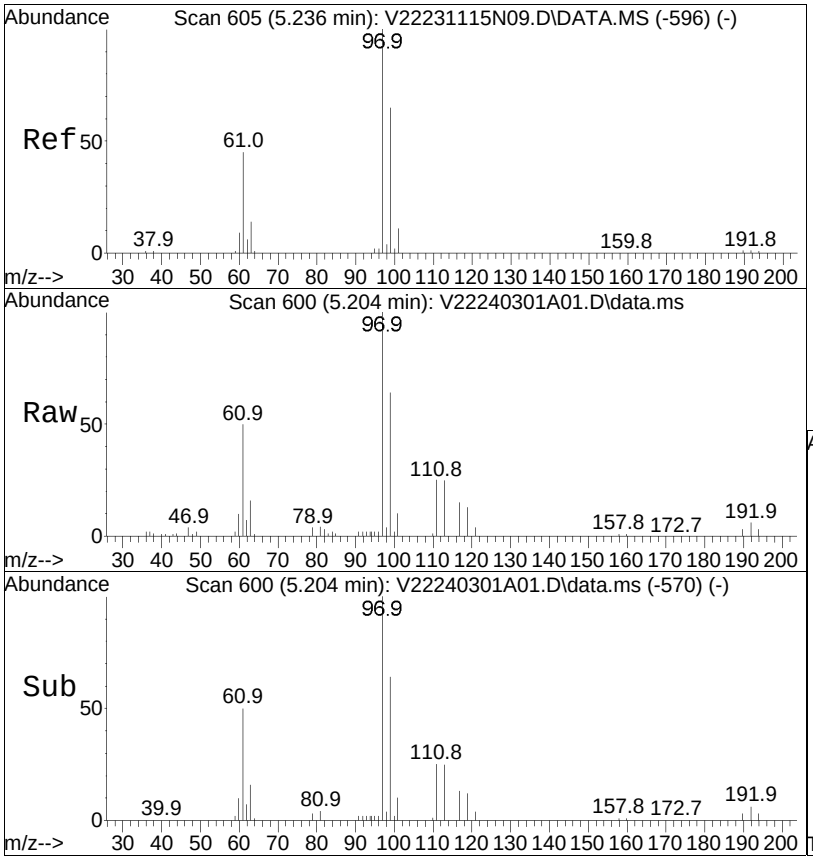


#36
Carbon tetrachloride
Concen: 9.81 ug/L
RT: 5.145 min Scan# 591
Delta R.T. 0.000 min
Lab File: V22240301A01.D
Acq: 01 Mar 2024 08:30 am

Tgt Ion:117 Resp: 112022

Ion	Ratio	Lower	Upper
117	100		
119	96.5	62.1	129.1
121	30.8	20.3	42.3
82	28.9	15.4	32.0

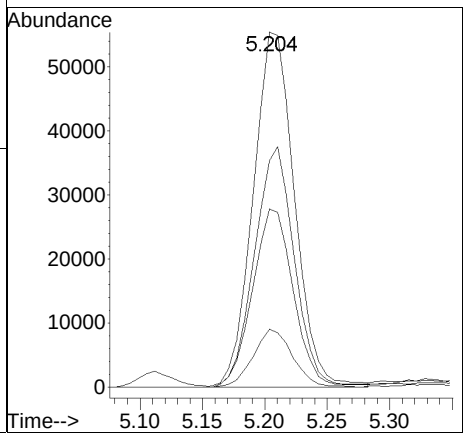


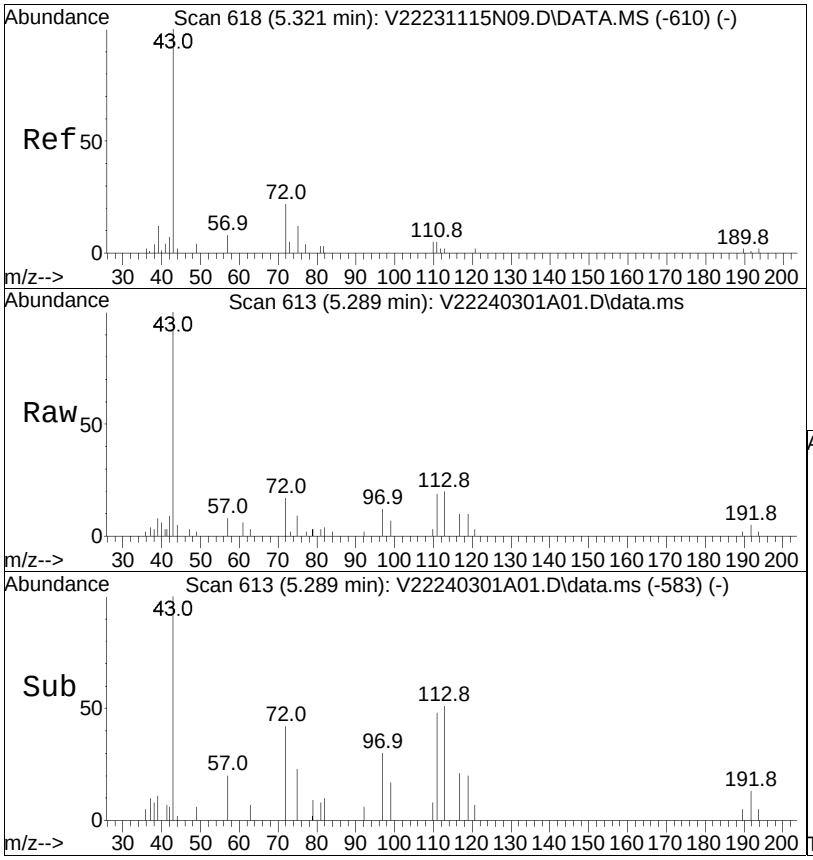


#39
1,1,1-Trichloroethane
Concen: 9.77 ug/L
RT: 5.204 min Scan# 600
Delta R.T. -0.006 min
Lab File: V22240301A01.D
Acq: 01 Mar 2024 08:30 am

Tgt Ion: 97 Resp: 128052

Ion	Ratio	Lower	Upper
97	100		
99	65.1	42.4	88.0
61	49.6	26.0	54.0
63	15.7	8.3	17.3

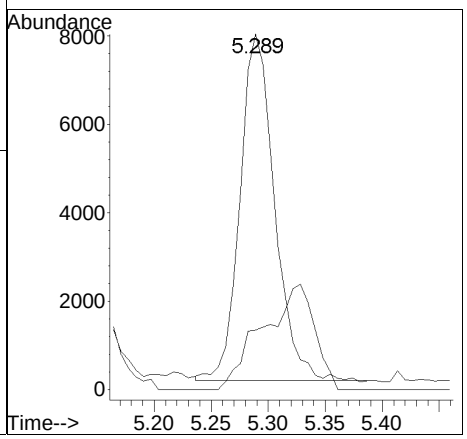


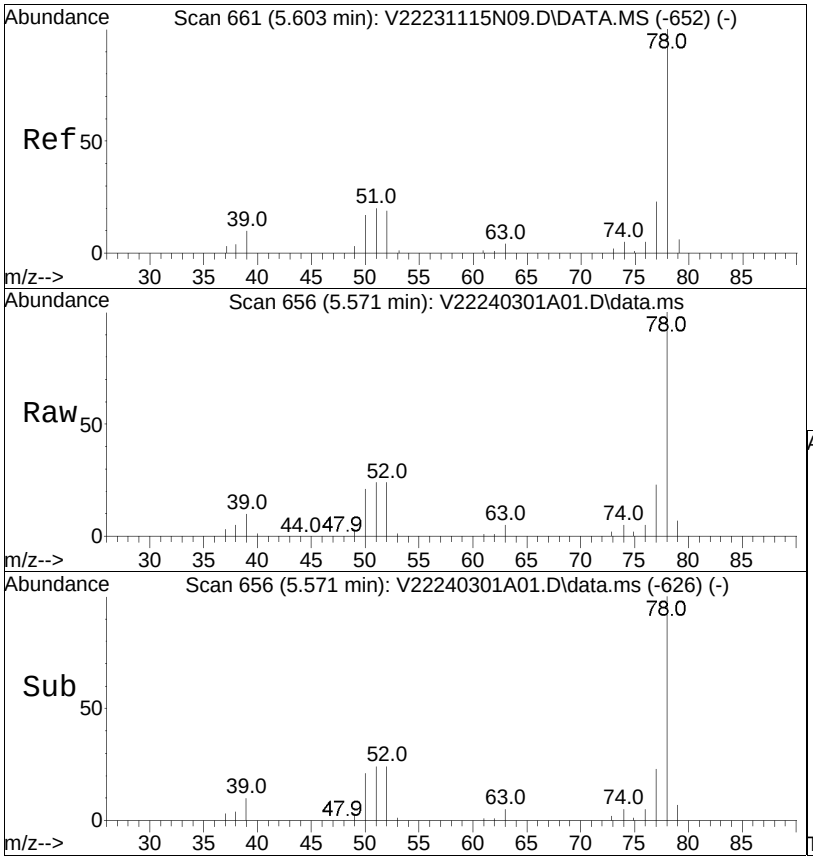


#41
2-Butanone
Concen: 8.64 ug/L
RT: 5.289 min Scan# 613
Delta R.T. -0.006 min
Lab File: V22240301A01.D
Acq: 01 Mar 2024 08:30 am

Tgt Ion: 43 Resp: 16568

Ion	Ratio	Lower	Upper
43	100		
72	45.3	45.8	68.8#

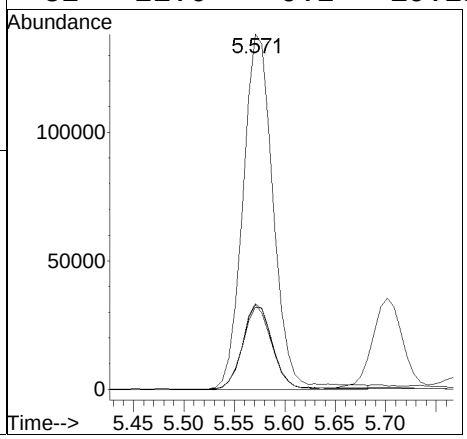


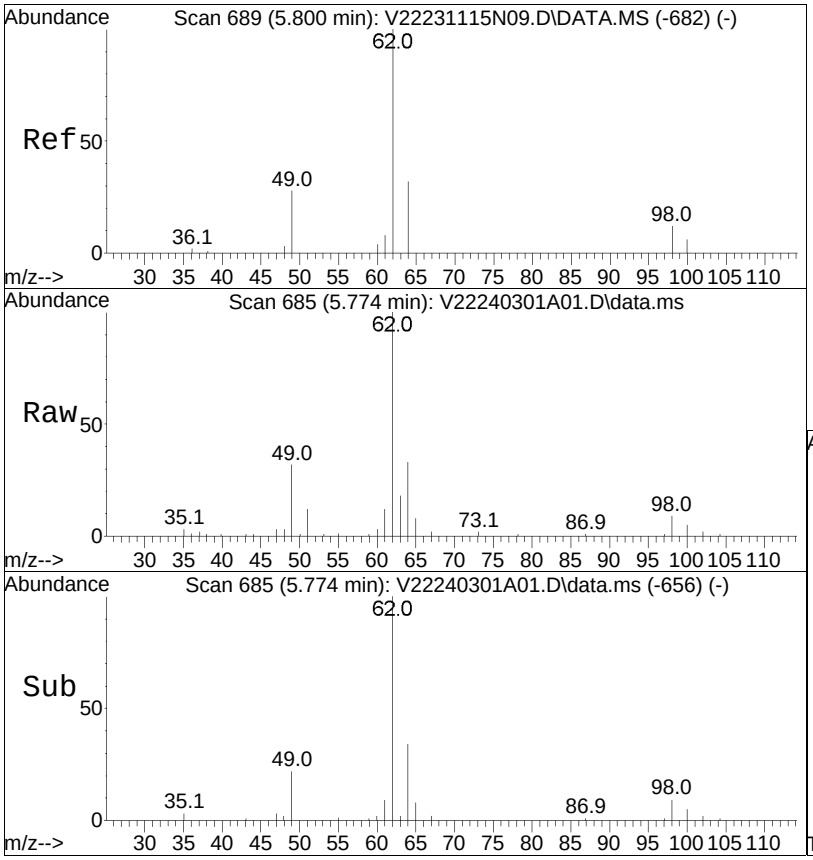


#44
Benzene
Concen: 10.40 ug/L
RT: 5.571 min Scan# 656
Delta R.T. -0.006 min
Lab File: V22240301A01.D
Acq: 01 Mar 2024 08:30 am

Tgt Ion: 78 Resp: 313421

Ion	Ratio	Lower	Upper
78	100		
77	23.0	15.4	32.0
51	21.1	9.8	20.4#
52	21.6	9.2	19.2#

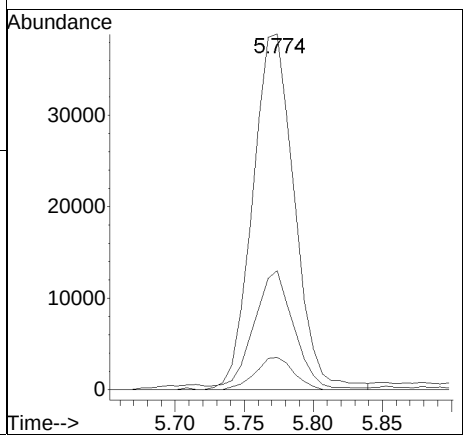


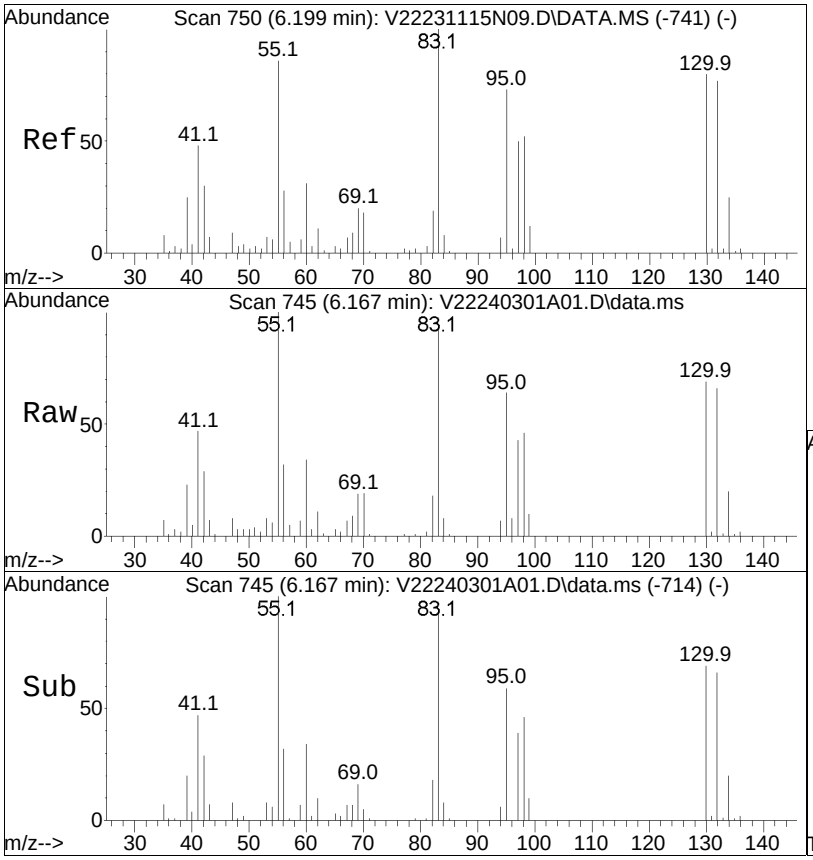


#47
1,2-Dichloroethane
Concen: 9.96 ug/L
RT: 5.774 min Scan# 685
Delta R.T. 0.000 min
Lab File: V22240301A01.D
Acq: 01 Mar 2024 08:30 am

Tgt Ion: 62 Resp: 81599

Ion	Ratio	Lower	Upper
62	100		
64	31.2	12.3	52.3
98	8.2	0.0	30.3

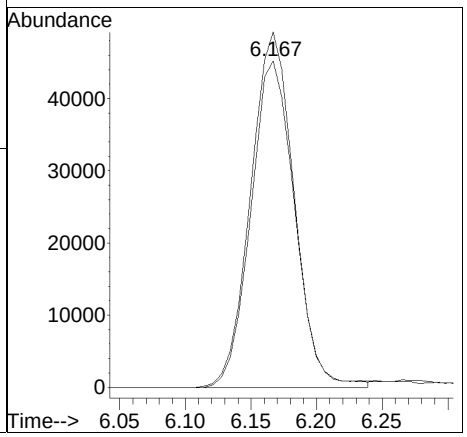


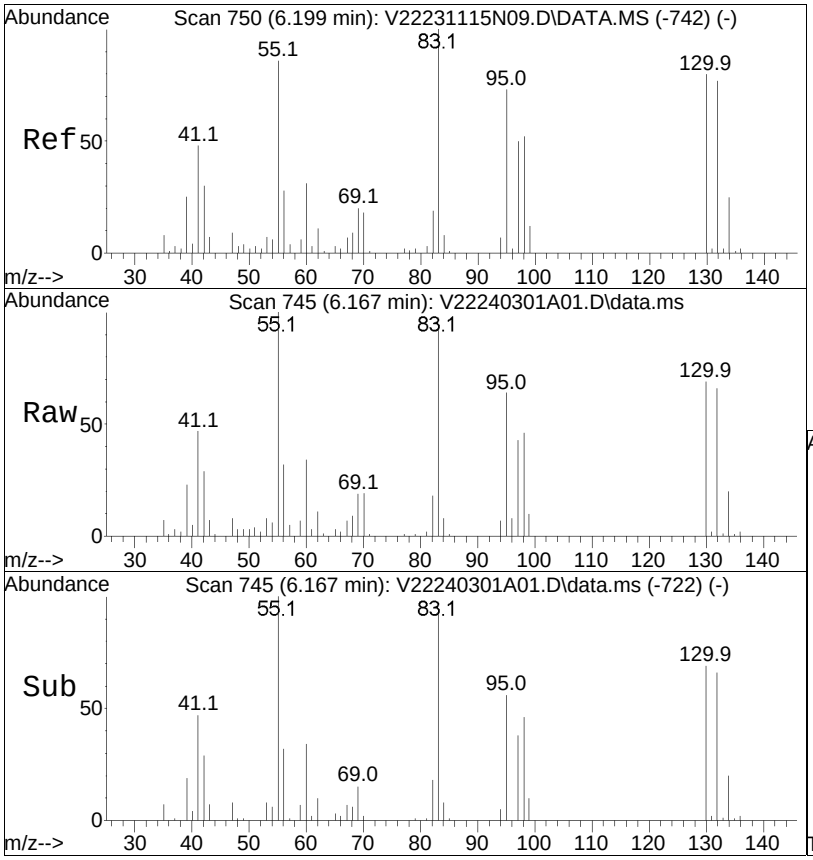


#50
Methyl cyclohexane
Concen: 10.46 ug/L
RT: 6.167 min Scan# 745
Delta R.T. 0.000 min
Lab File: V22240301A01.D
Acq: 01 Mar 2024 08:30 am

Tgt Ion: 83 Resp: 105049

Ion	Ratio	Lower	Upper
83	100		
55	107.4	55.4	83.2#

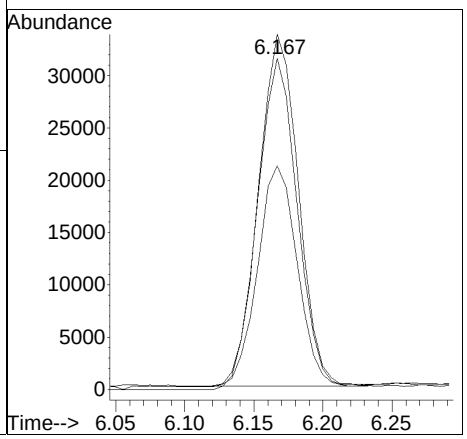


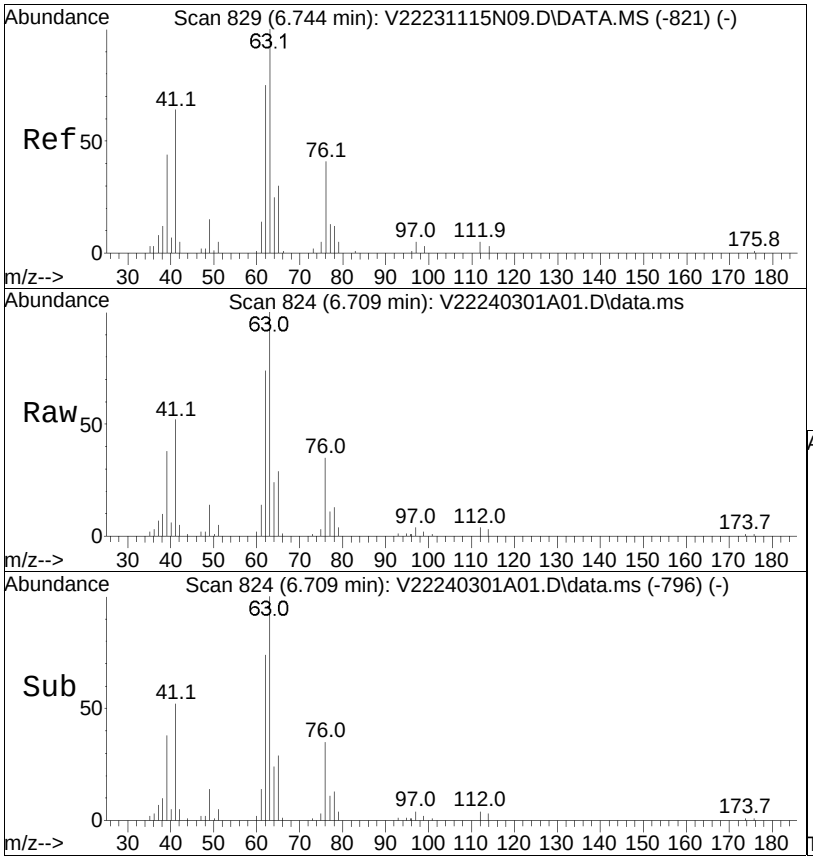


#51
Trichloroethene
Concen: 8.92 ug/L
RT: 6.167 min Scan# 745
Delta R.T. -0.006 min
Lab File: V22240301A01.D
Acq: 01 Mar 2024 08:30 am

Tgt Ion: 95 Resp: 62520

Ion	Ratio	Lower	Upper
95	100		
97	67.6	55.0	82.4
130	111.0	89.2	133.8

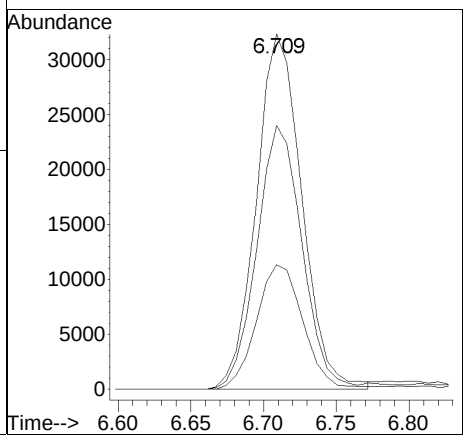


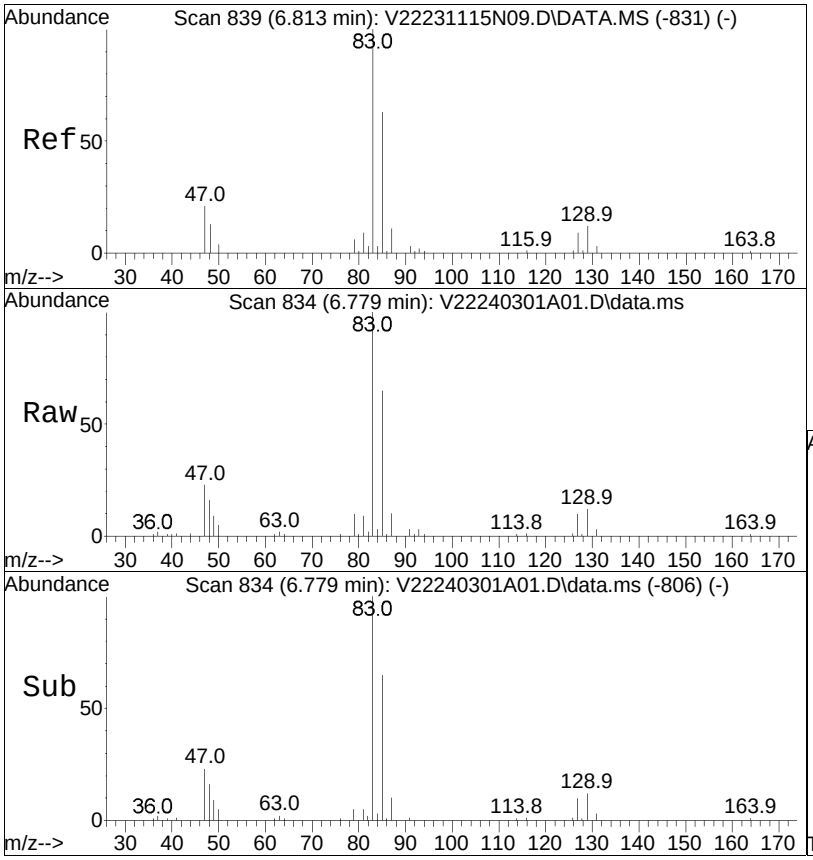


#54
1,2-Dichloropropane
Concen: 10.34 ug/L
RT: 6.709 min Scan# 824
Delta R.T. -0.007 min
Lab File: V22240301A01.D
Acq: 01 Mar 2024 08:30 am

Tgt Ion: 63 Resp: 70410

Ion	Ratio	Lower	Upper
63	100		
62	73.7	56.9	85.3
76	35.9	35.8	53.8

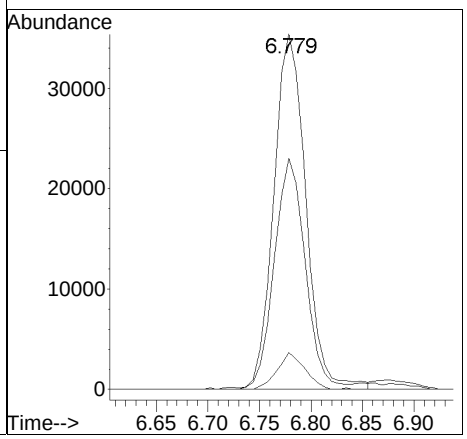


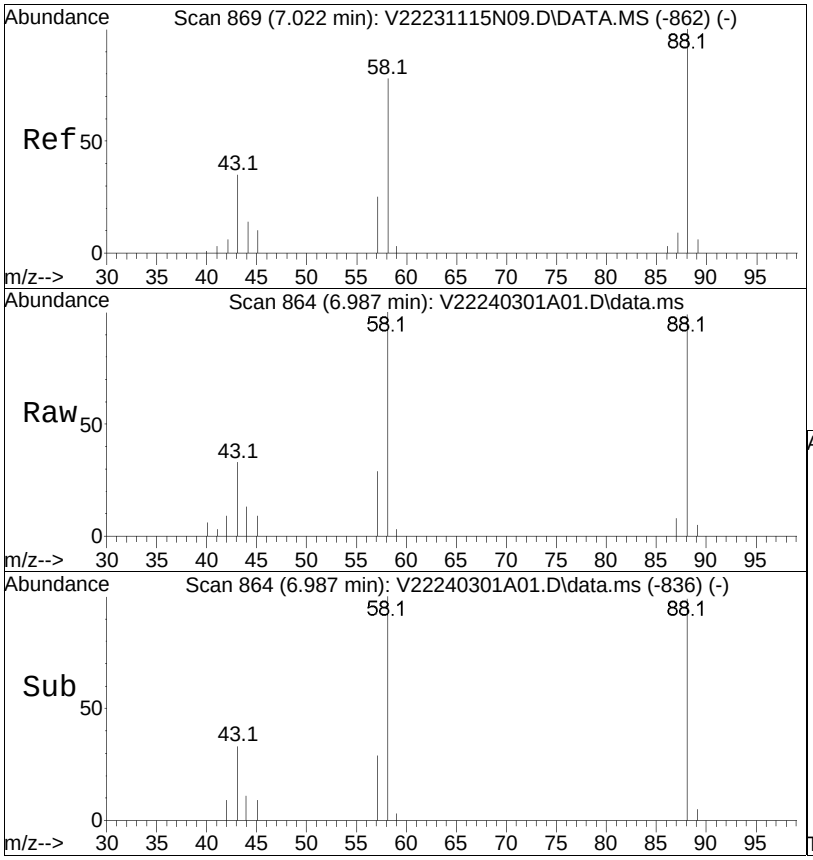


#57
Bromodichloromethane
Concen: 8.70 ug/L
RT: 6.779 min Scan# 834
Delta R.T. -0.007 min
Lab File: V22240301A01.D
Acq: 01 Mar 2024 08:30 am

Tgt Ion: 83 Resp: 76690

Ion	Ratio	Lower	Upper
83	100		
85	62.8	51.6	77.4
127	9.0	7.4	11.0

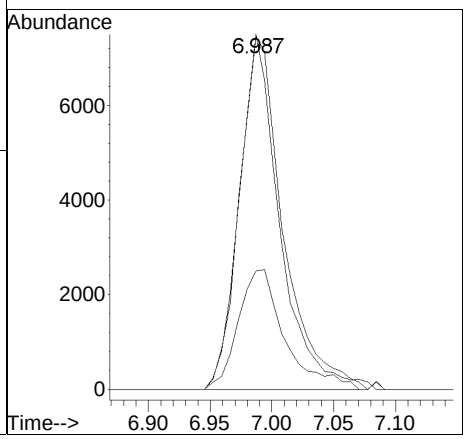


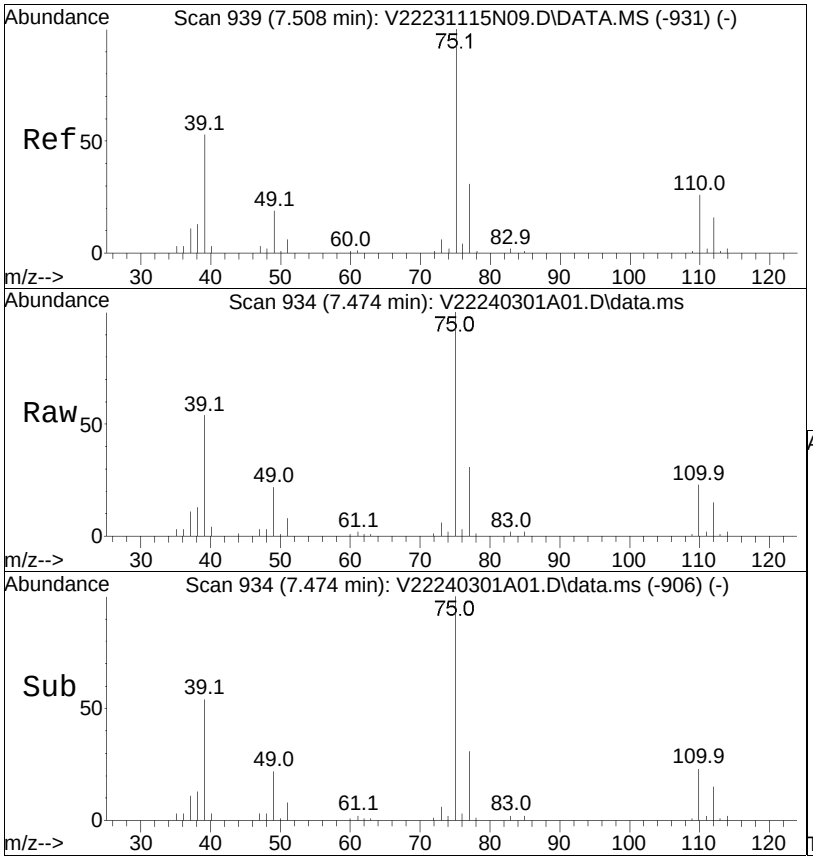


#60
1,4-Dioxane
Concen: 440.15 ug/L
RT: 6.987 min Scan# 864
Delta R.T. -0.007 min
Lab File: V22240301A01.D
Acq: 01 Mar 2024 08:30 am

Tgt Ion: 88 Resp: 18224

Ion	Ratio	Lower	Upper
88	100		
58	93.6	43.3	64.9#
43	36.4	15.1	22.7#

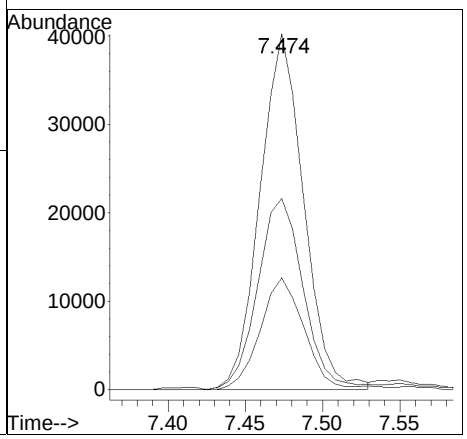


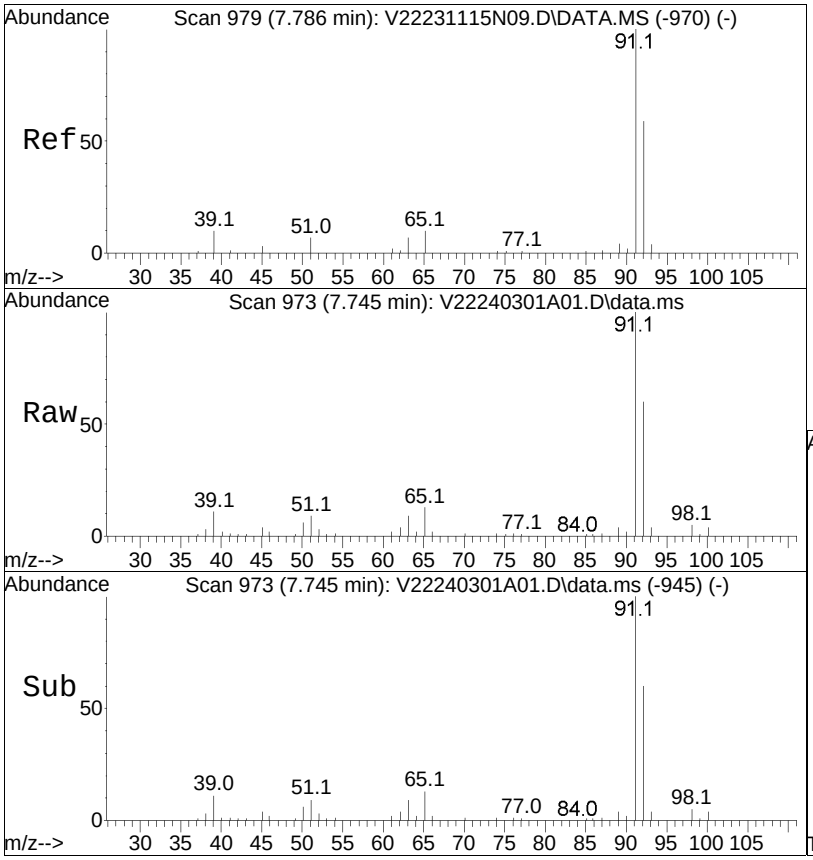


#61
cis-1,3-Dichloropropene
Concen: 8.55 ug/L
RT: 7.474 min Scan# 934
Delta R.T. -0.007 min
Lab File: V22240301A01.D
Acq: 01 Mar 2024 08:30 am

Tgt Ion: 75 Resp: 78766

Ion	Ratio	Lower	Upper
75	100		
77	31.3	25.6	38.4
39	56.3	35.4	53.0#

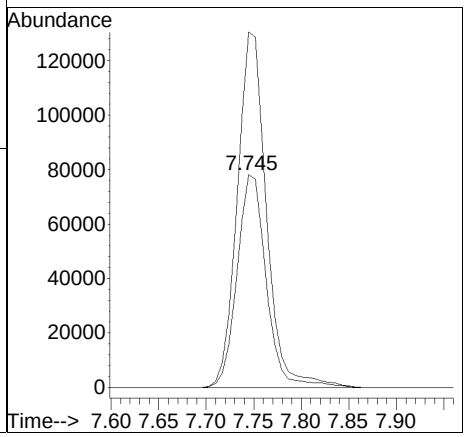


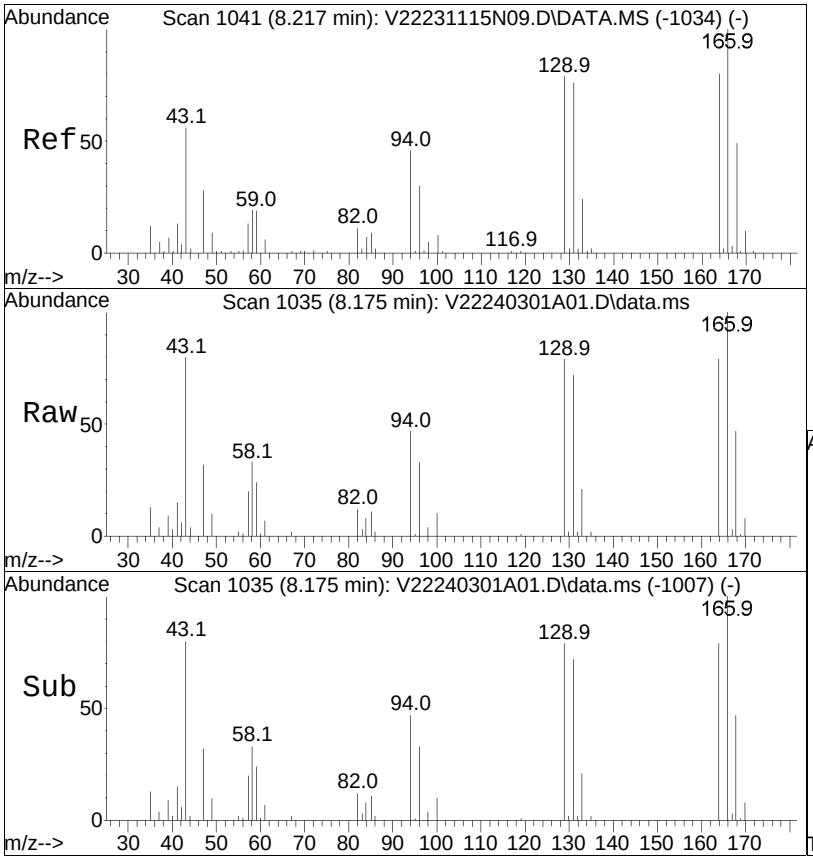


#64
Toluene
Concen: 9.80 ug/L
RT: 7.745 min Scan# 973
Delta R.T. -0.007 min
Lab File: V22240301A01.D
Acq: 01 Mar 2024 08:30 am

Tgt Ion: 92 Resp: 166806

Ion	Ratio	Lower	Upper
92	100		
91	166.5	137.0	205.6

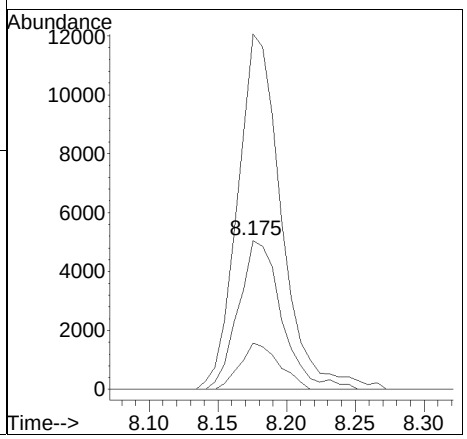


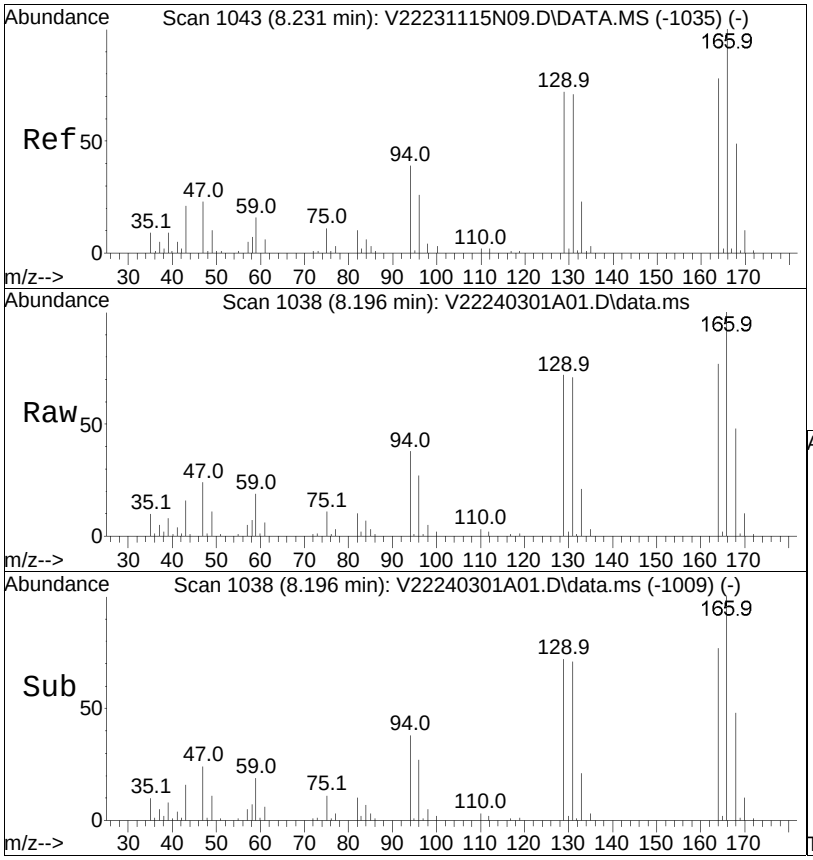


#65
4-Methyl-2-pentanone
Concen: 8.56 ug/L
RT: 8.175 min Scan# 1035
Delta R.T. -0.007 min
Lab File: V22240301A01.D
Acq: 01 Mar 2024 08:30 am

Tgt Ion: 58 Resp: 11121

Ion	Ratio	Lower	Upper
58	100		
100	28.1	36.2	54.4#
43	241.0	181.8	272.8

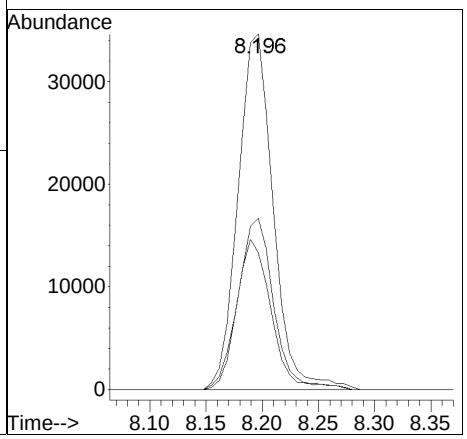


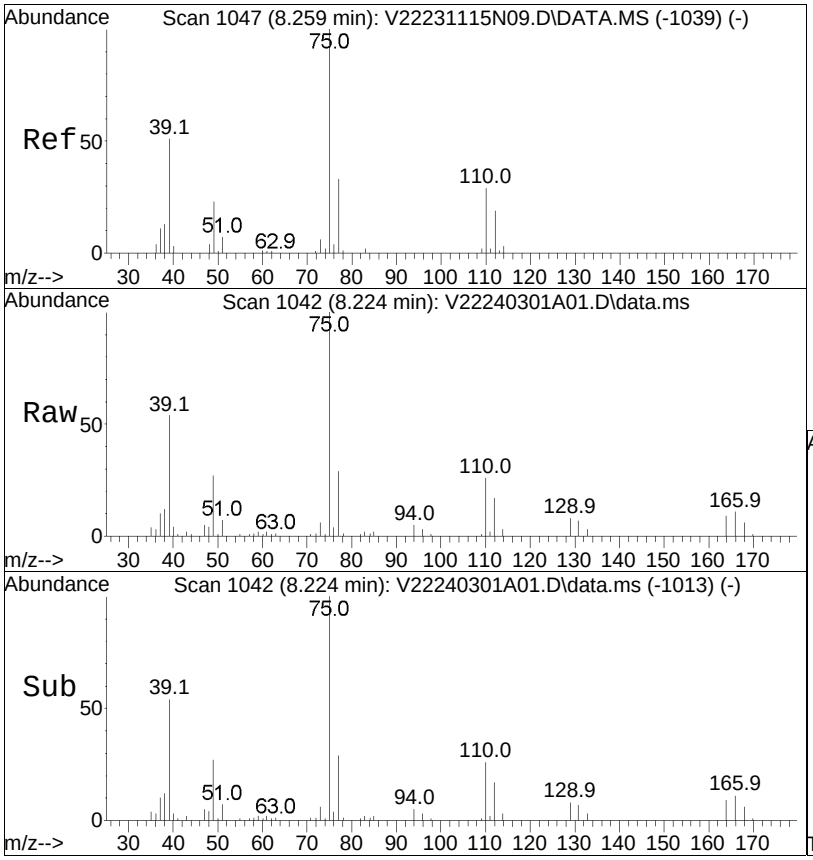


#66
Tetrachloroethene
Concen: 10.46 ug/L
RT: 8.196 min Scan# 1038
Delta R.T. 0.000 min
Lab File: V22240301A01.D
Acq: 01 Mar 2024 08:30 am

Tgt Ion:166 Resp: 75469

Ion	Ratio	Lower	Upper
166	100		
168	48.0	27.8	67.8
94	42.2	16.7	56.7

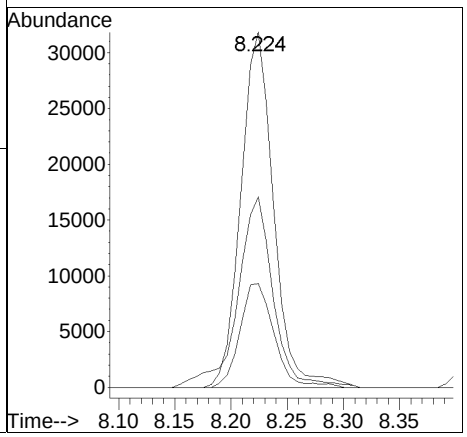


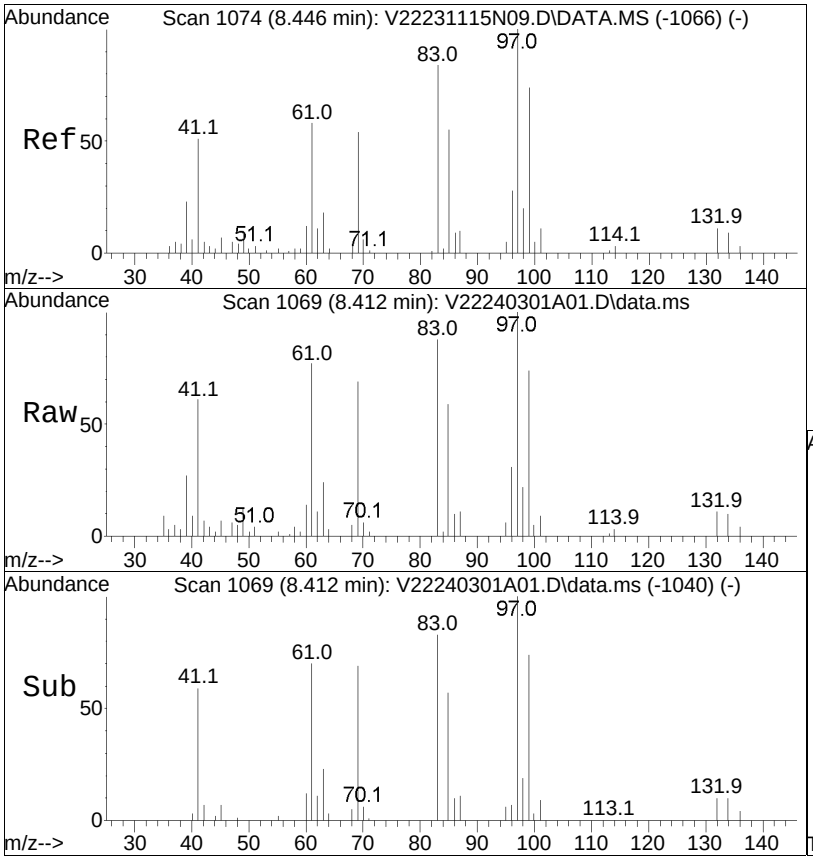


#68
trans-1,3-Dichloropropene
Concen: 7.95 ug/L
RT: 8.224 min Scan# 1042
Delta R.T. 0.000 min
Lab File: V22240301A01.D
Acq: 01 Mar 2024 08:30 am

Tgt Ion: 75 Resp: 64703

Ion	Ratio	Lower	Upper
75	100		
77	30.3	11.9	51.9
39	58.0	27.4	67.4

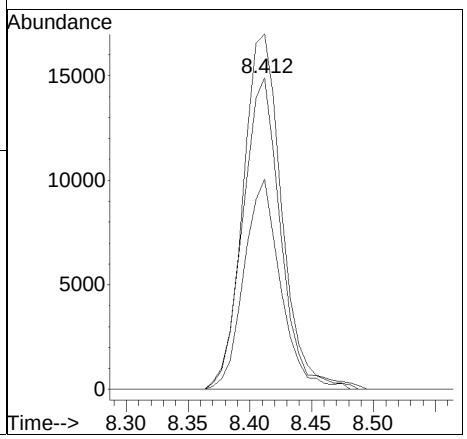


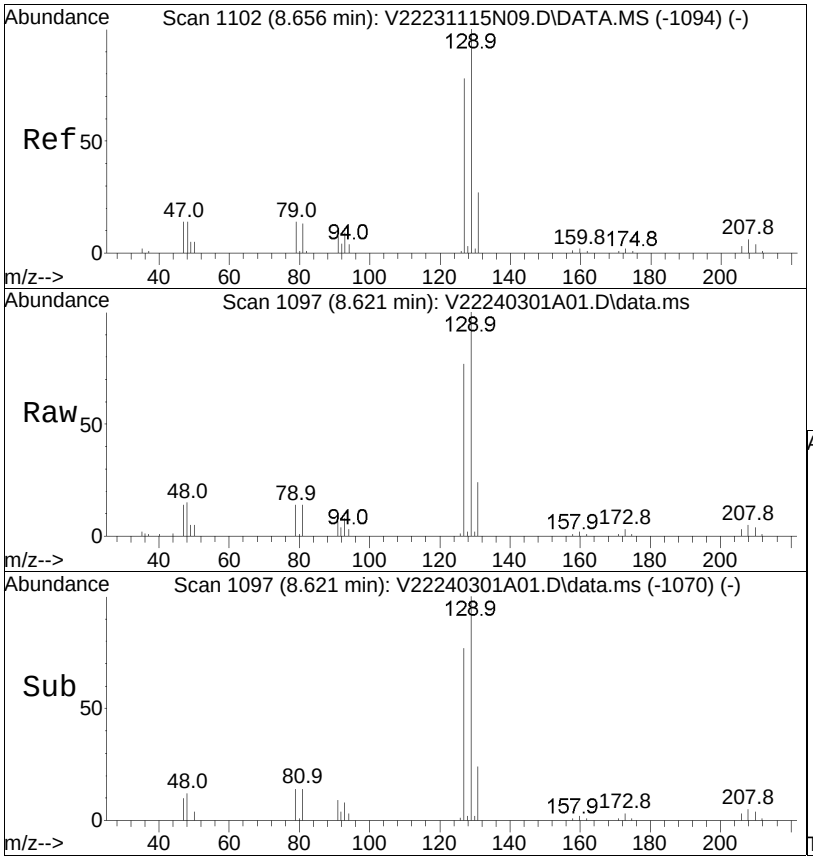


#71
1,1,2-Trichloroethane
Concen: 8.09 ug/L
RT: 8.412 min Scan# 1069
Delta R.T. 0.000 min
Lab File: V22240301A01.D
Acq: 01 Mar 2024 08:30 am

Tgt Ion: 83 Resp: 31596

Ion	Ratio	Lower	Upper
83	100		
97	129.2	103.4	143.4
85	65.5	47.9	87.9

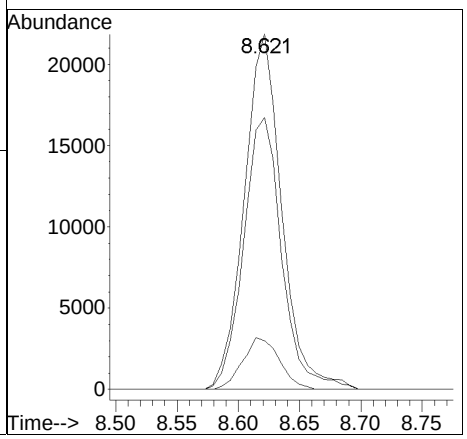


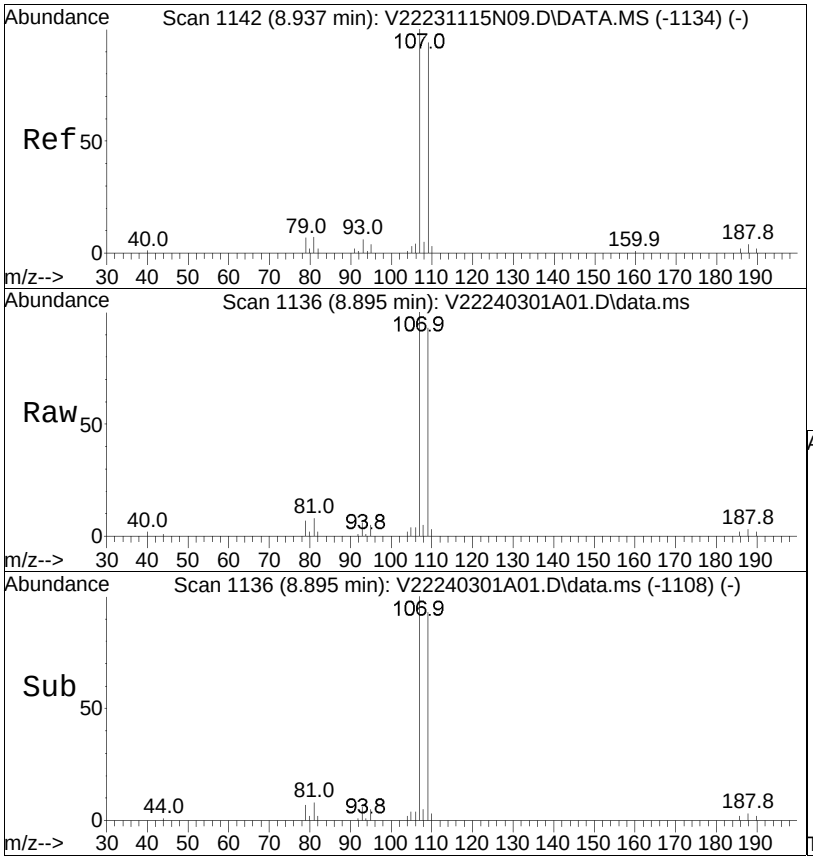


#72
Chlorodibromomethane
Concen: 7.48 ug/L
RT: 8.621 min Scan# 1097
Delta R.T. 0.000 min
Lab File: V22240301A01.D
Acq: 01 Mar 2024 08:30 am

Tgt Ion:129 Resp: 46672

Ion	Ratio	Lower	Upper
129	100		
81	14.2	0.0	33.8
127	77.7	57.1	97.1

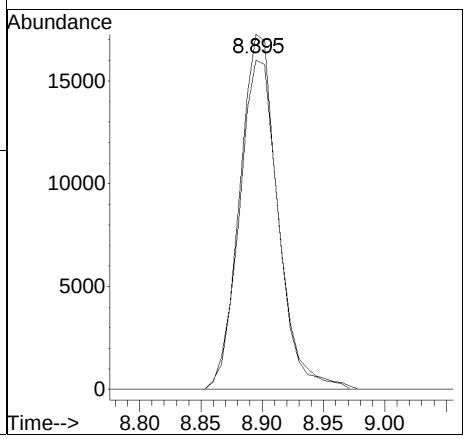


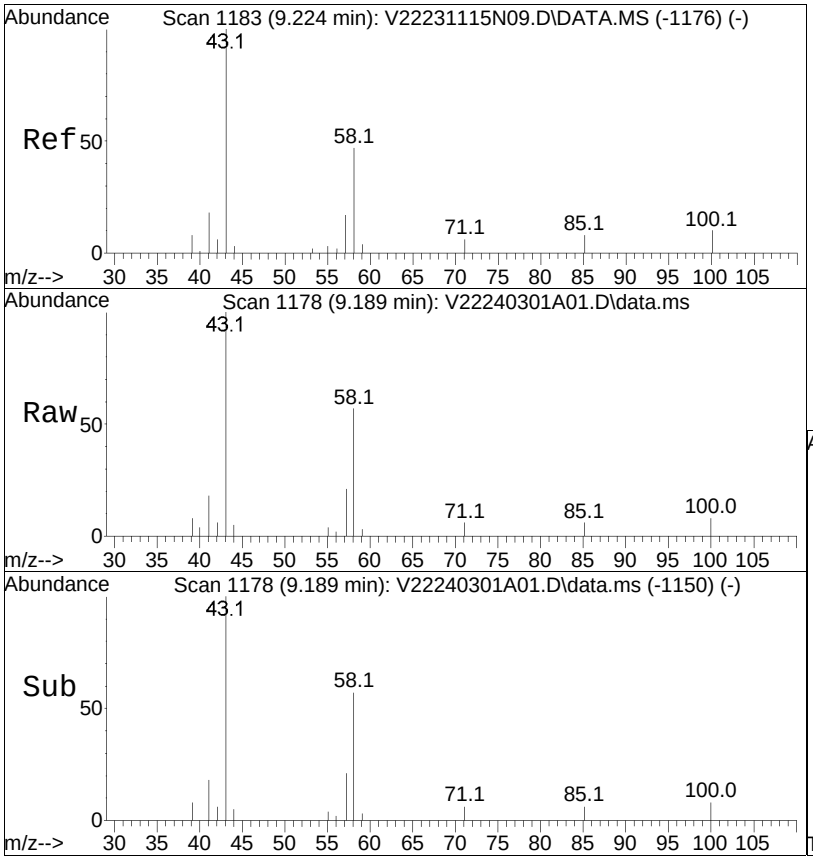


#74
1,2-Dibromoethane
Concen: 8.40 ug/L
RT: 8.895 min Scan# 1136
Delta R.T. -0.007 min
Lab File: V22240301A01.D
Acq: 01 Mar 2024 08:30 am

Tgt Ion:107 Resp: 37614

Ion	Ratio	Lower	Upper
107	100		
109	94.0	75.1	112.7

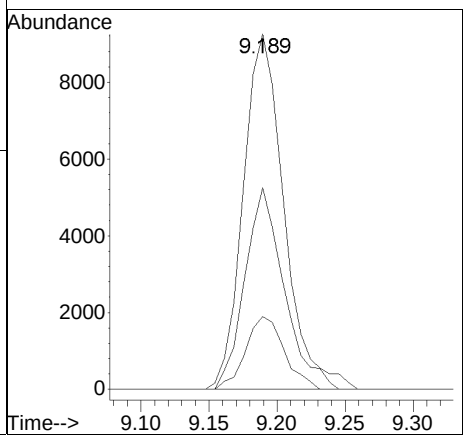


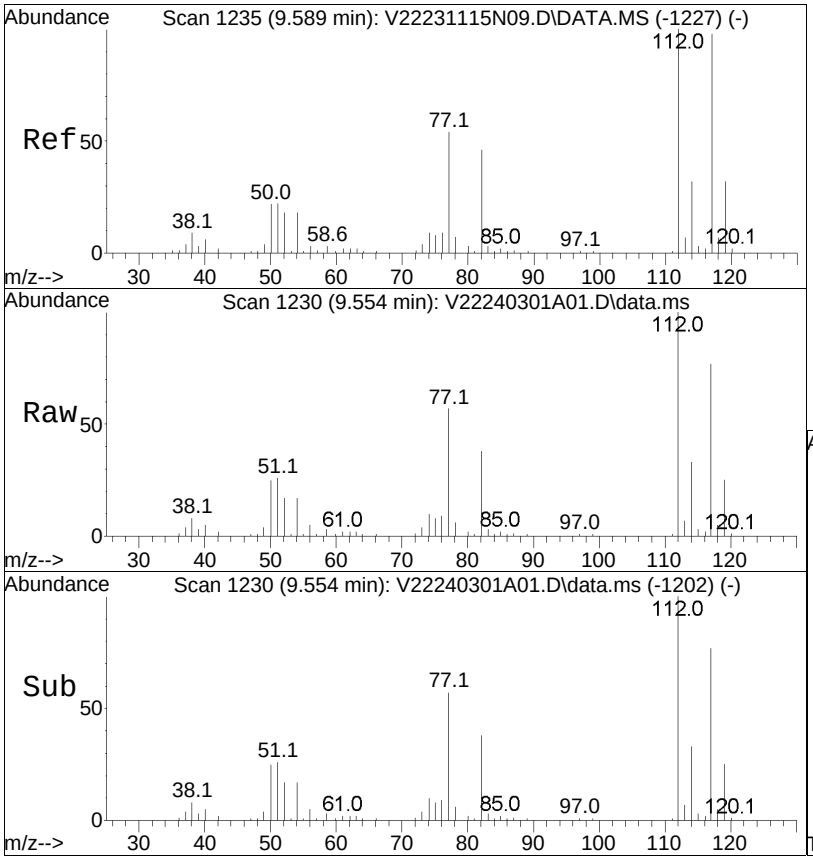


#76
2-Hexanone
Concen: 8.26 ug/L
RT: 9.189 min Scan# 1178
Delta R.T. -0.007 min
Lab File: V22240301A01.D
Acq: 01 Mar 2024 08:30 am

Tgt Ion: 43 Resp: 19336

Ion	Ratio	Lower	Upper
43	100		
58	54.4	47.6	71.4
57	19.5	16.6	24.8

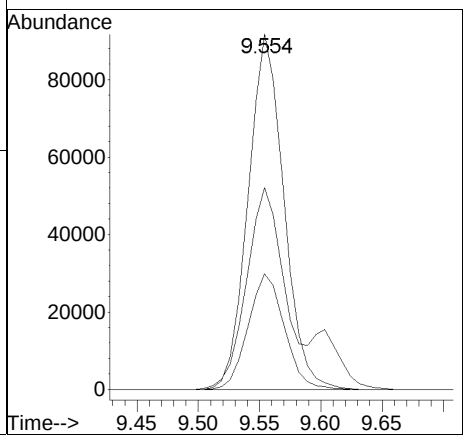


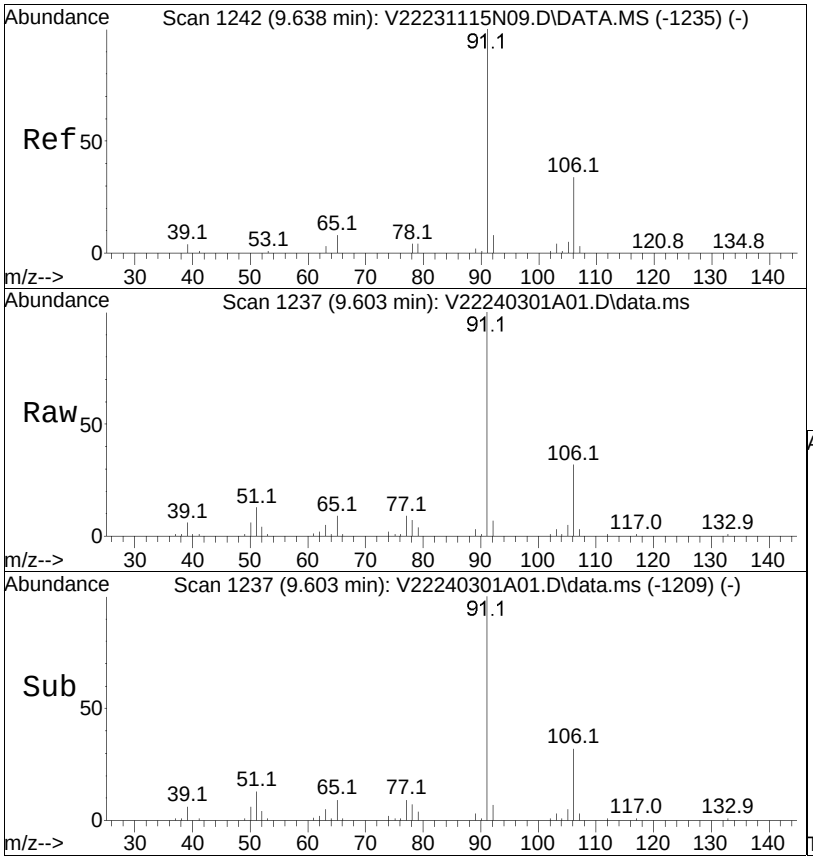


#77
Chlorobenzene
Concen: 9.41 ug/L
RT: 9.554 min Scan# 1230
Delta R.T. -0.007 min
Lab File: V22240301A01.D
Acq: 01 Mar 2024 08:30 am

Tgt Ion:112 Resp: 185640

Ion	Ratio	Lower	Upper
112	100		
77	61.0	55.4	83.0
114	33.0	26.2	39.4

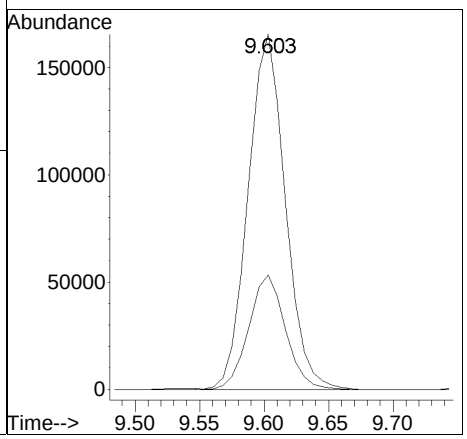


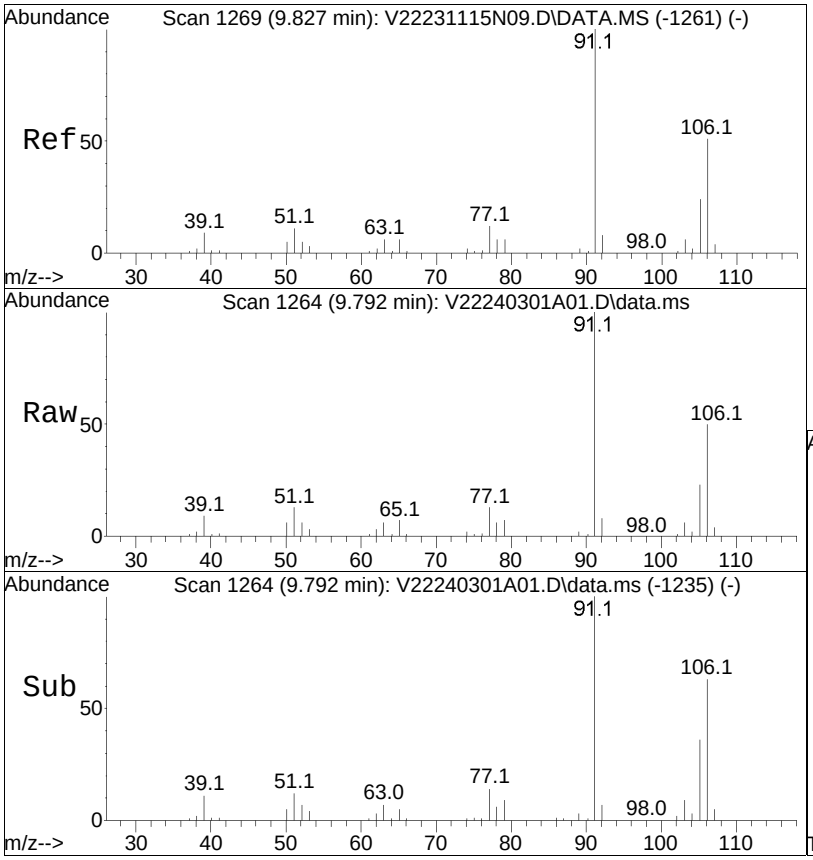


#78
Ethylbenzene
Concen: 10.05 ug/L
RT: 9.603 min Scan# 1237
Delta R.T. -0.007 min
Lab File: V22240301A01.D
Acq: 01 Mar 2024 08:30 am

Tgt Ion: 91 Resp: 332116

Ion	Ratio	Lower	Upper
91	100		
106	31.7	25.8	38.6

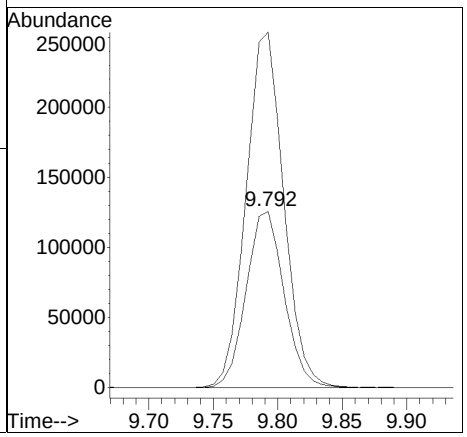


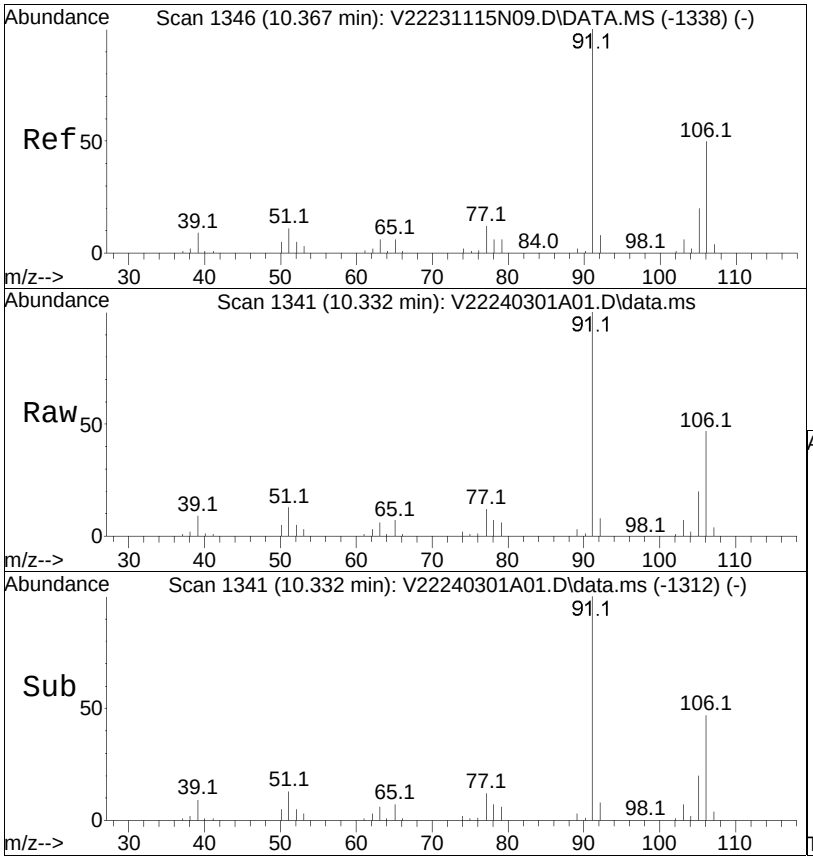


#80
p/m Xylene
Concen: 19.55 ug/L
RT: 9.792 min Scan# 1264
Delta R.T. 0.000 min
Lab File: V22240301A01.D
Acq: 01 Mar 2024 08:30 am

Tgt Ion:106 Resp: 256461

Ion	Ratio	Lower	Upper
106	100		
91	200.1	156.0	234.0

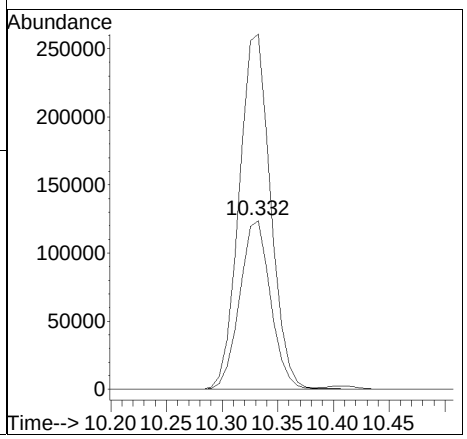


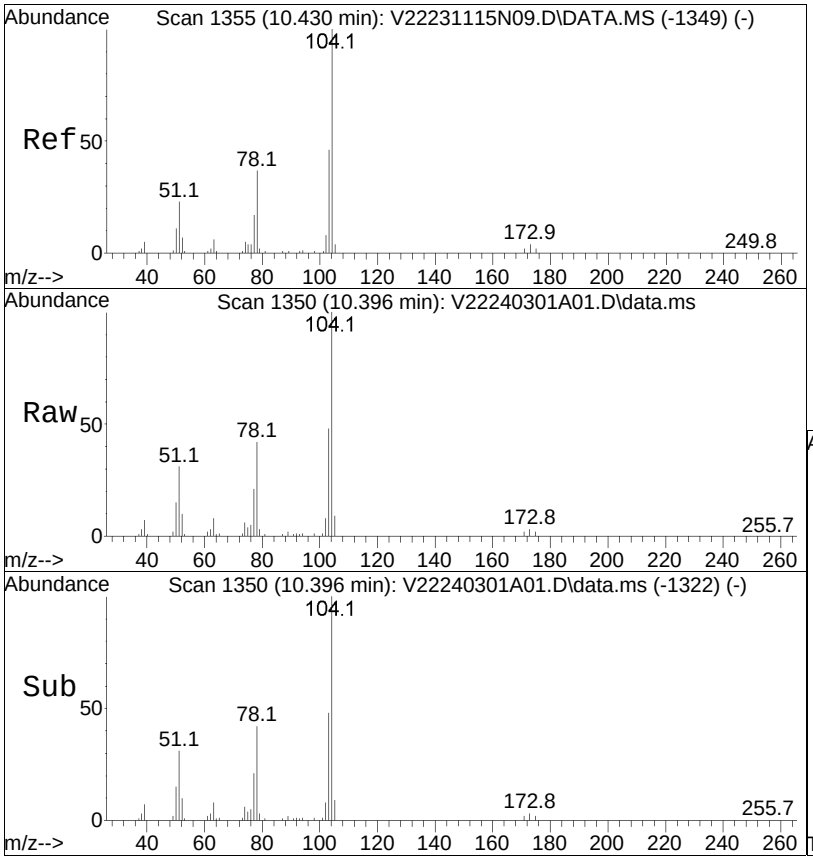


#81
o Xylene
Concen: 19.01 ug/L
RT: 10.332 min Scan# 1341
Delta R.T. 0.000 min
Lab File: V22240301A01.D
Acq: 01 Mar 2024 08:30 am

Tgt Ion:106 Resp: 240195

Ion	Ratio	Lower	Upper
106	100		
91	212.5	164.0	246.0

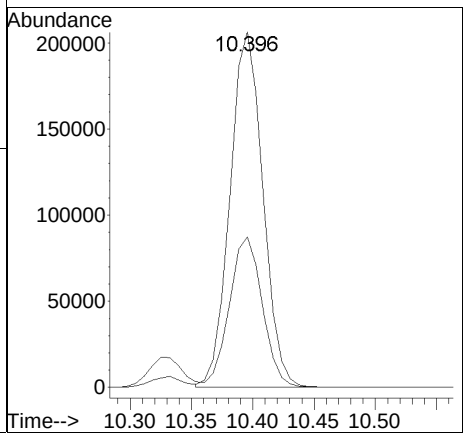


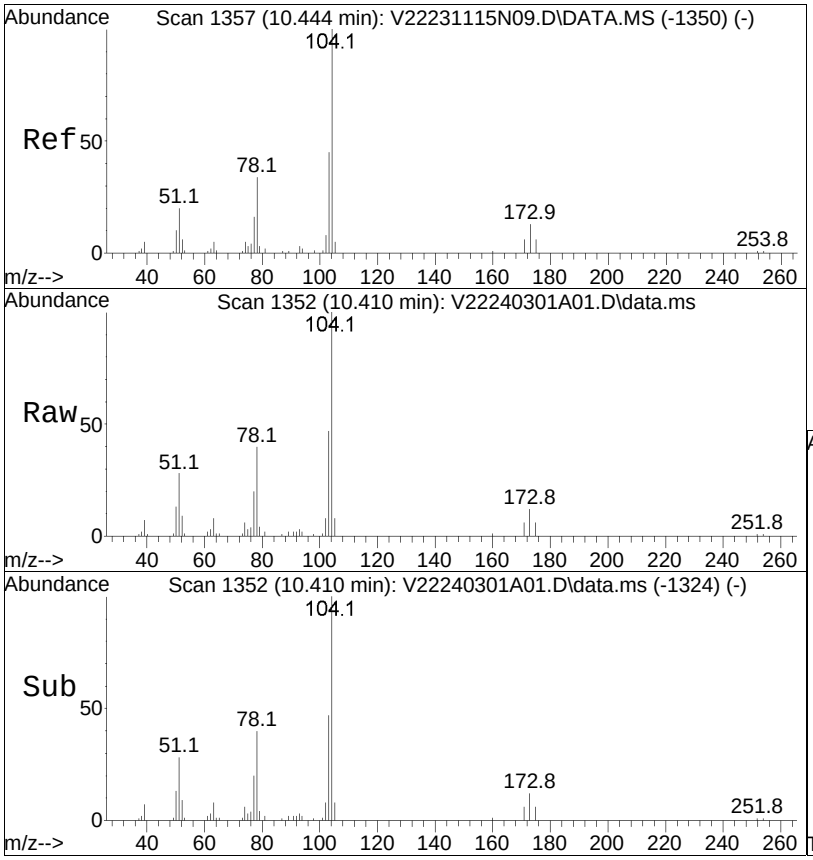


#82
Styrene
Concen: 18.93 ug/L
RT: 10.396 min Scan# 1350
Delta R.T. -0.007 min
Lab File: V22240301A01.D
Acq: 01 Mar 2024 08:30 am

Tgt Ion:104 Resp: 385395

Ion	Ratio	Lower	Upper
104	100		
78	42.3	32.1	48.1

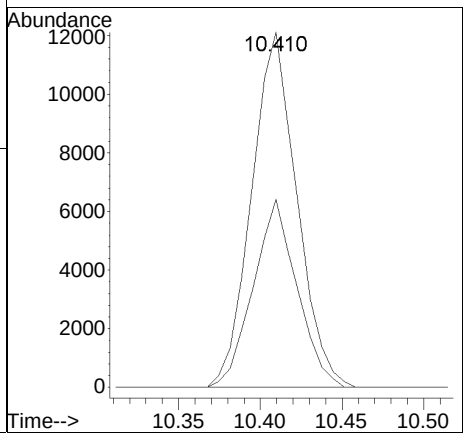


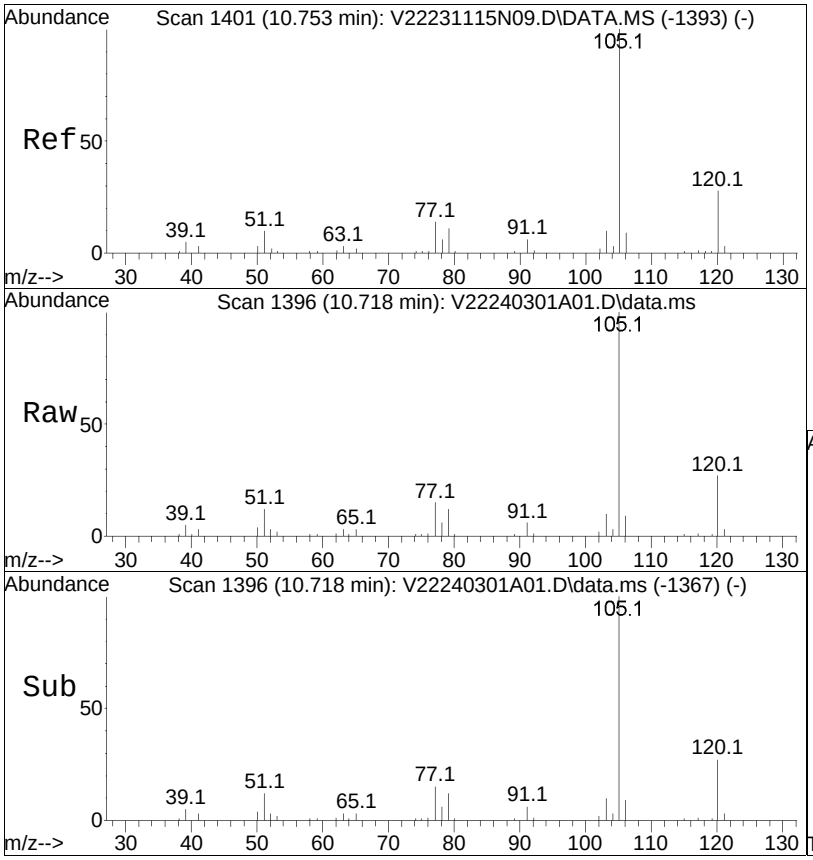


#84
Bromoform
Concen: 6.97 ug/L
RT: 10.410 min Scan# 1352
Delta R.T. -0.007 min
Lab File: V22240301A01.D
Acq: 01 Mar 2024 08:30 am

Tgt Ion:173 Resp: 23335

Ion	Ratio	Lower	Upper
173	100		
175	51.1	29.3	69.3

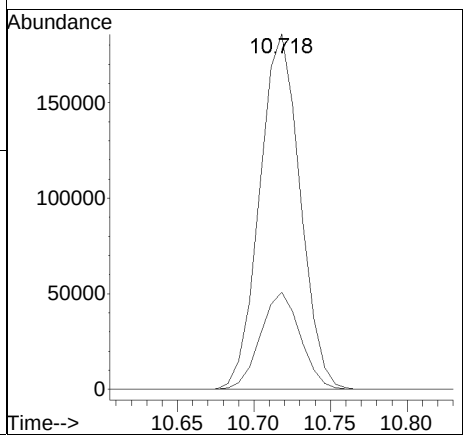


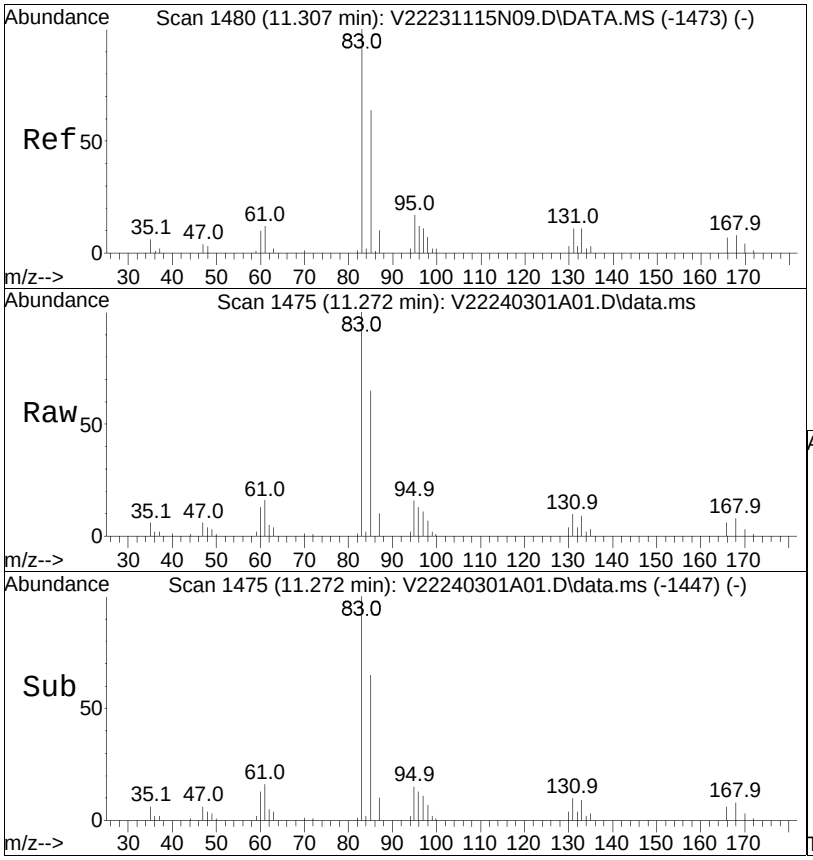


#86
Isopropylbenzene
Concen: 9.83 ug/L
RT: 10.718 min Scan# 1396
Delta R.T. 0.000 min
Lab File: V22240301A01.D
Acq: 01 Mar 2024 08:30 am

Tgt Ion:105 Resp: 341872

Ion	Ratio	Lower	Upper
105	100		
120	26.9	7.7	47.7

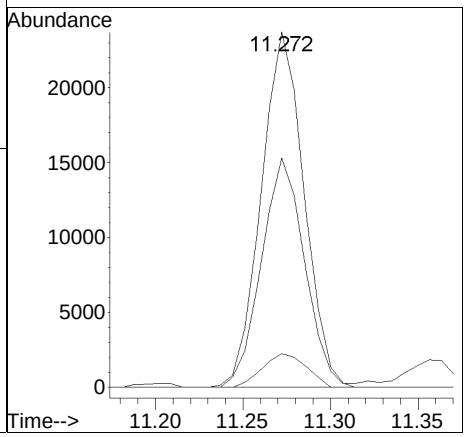


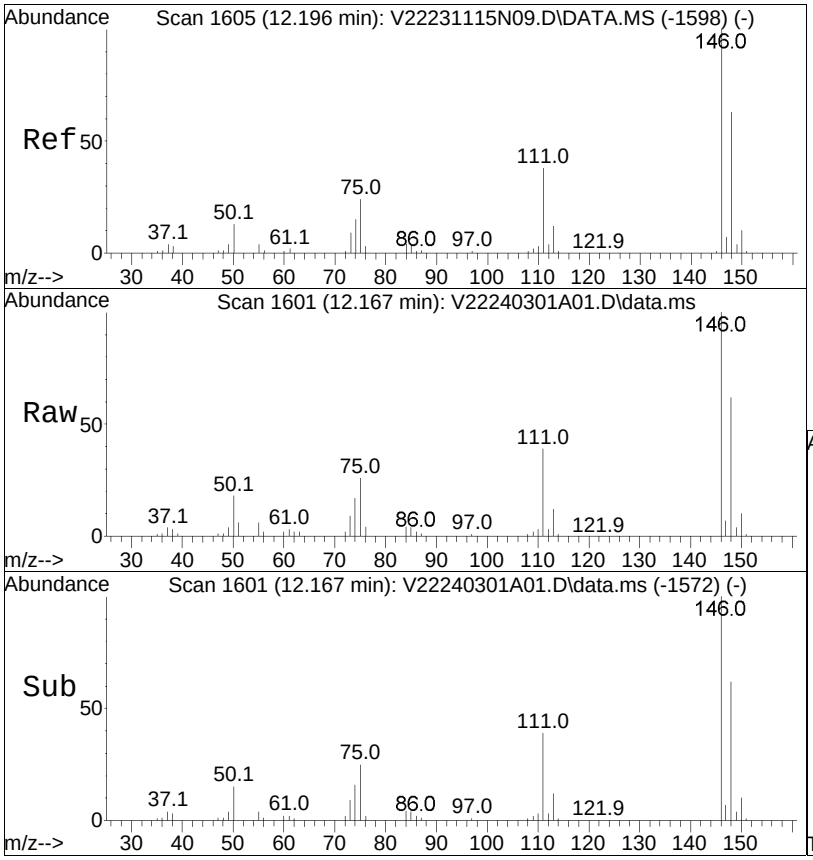


#91
1,1,2,2-Tetrachloroethane
Concen: 8.64 ug/L
RT: 11.272 min Scan# 1475
Delta R.T. -0.007 min
Lab File: V22240301A01.D
Acq: 01 Mar 2024 08:30 am

Tgt Ion: 83 Resp: 40330

Ion	Ratio	Lower	Upper
83	100		
131	9.8	0.0	30.8
85	65.3	45.4	85.4

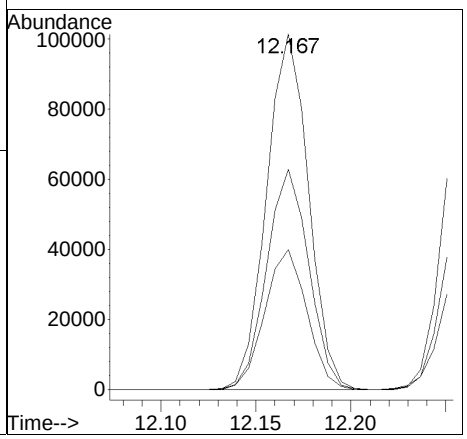


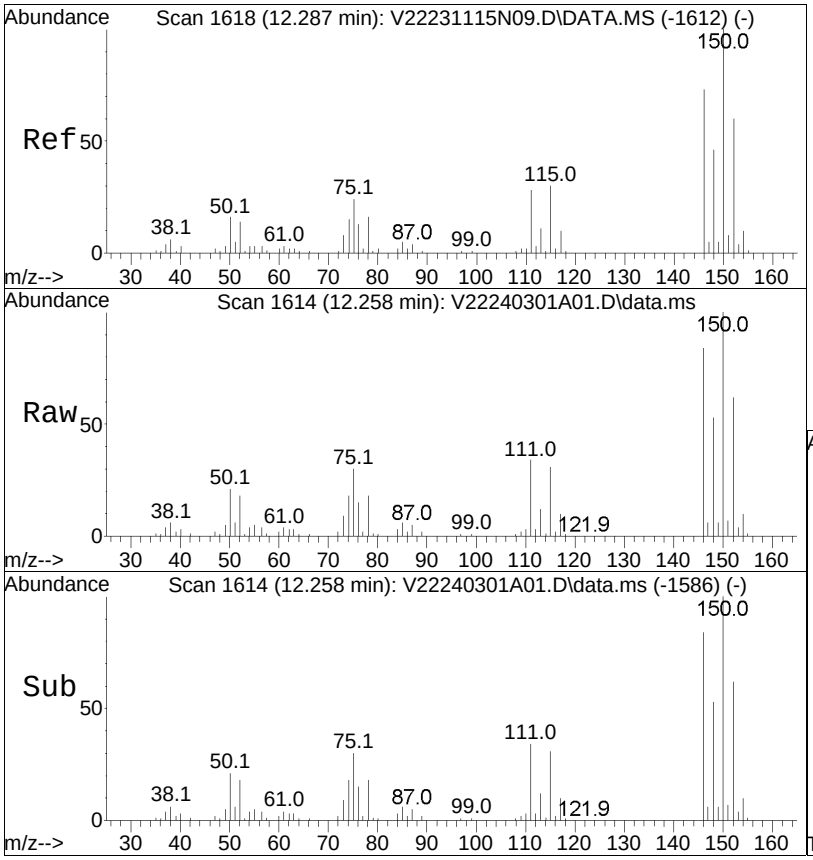


#104
1,3-Dichlorobenzene
Concen: 9.41 ug/L
RT: 12.167 min Scan# 1601
Delta R.T. 0.000 min
Lab File: V22240301A01.D
Acq: 01 Mar 2024 08:30 am

Tgt Ion:146 Resp: 155589

Ion	Ratio	Lower	Upper
146	100		
111	39.5	24.0	49.8
148	62.2	41.8	86.8

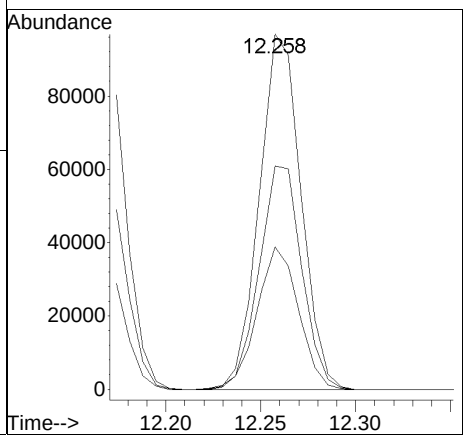


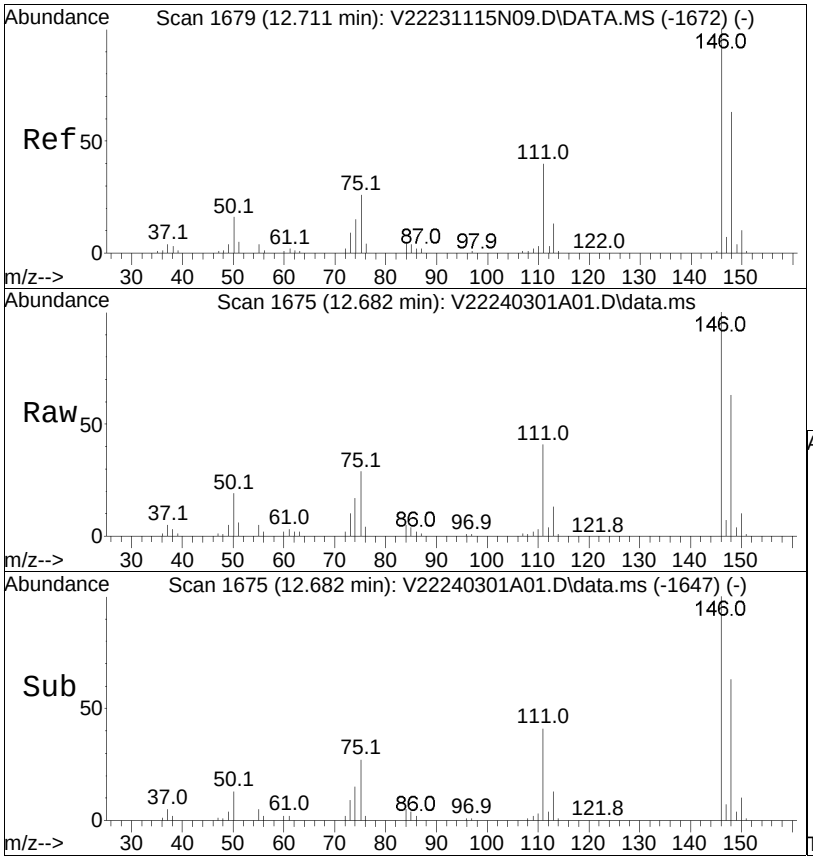


#105
1,4-Dichlorobenzene
Concen: 9.13 ug/L
RT: 12.258 min Scan# 1614
Delta R.T. -0.007 min
Lab File: V22240301A01.D
Acq: 01 Mar 2024 08:30 am

Tgt Ion:146 Resp: 148006

Ion	Ratio	Lower	Upper
146	100		
111	40.1	28.9	43.3
148	64.2	51.4	77.2

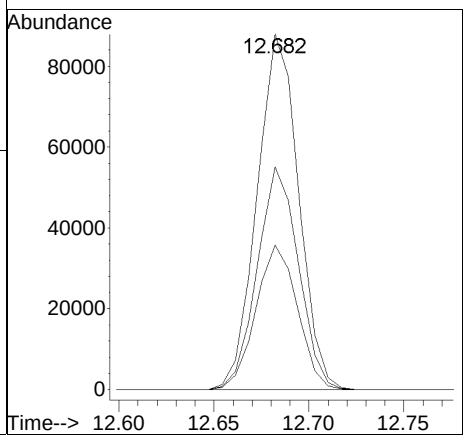


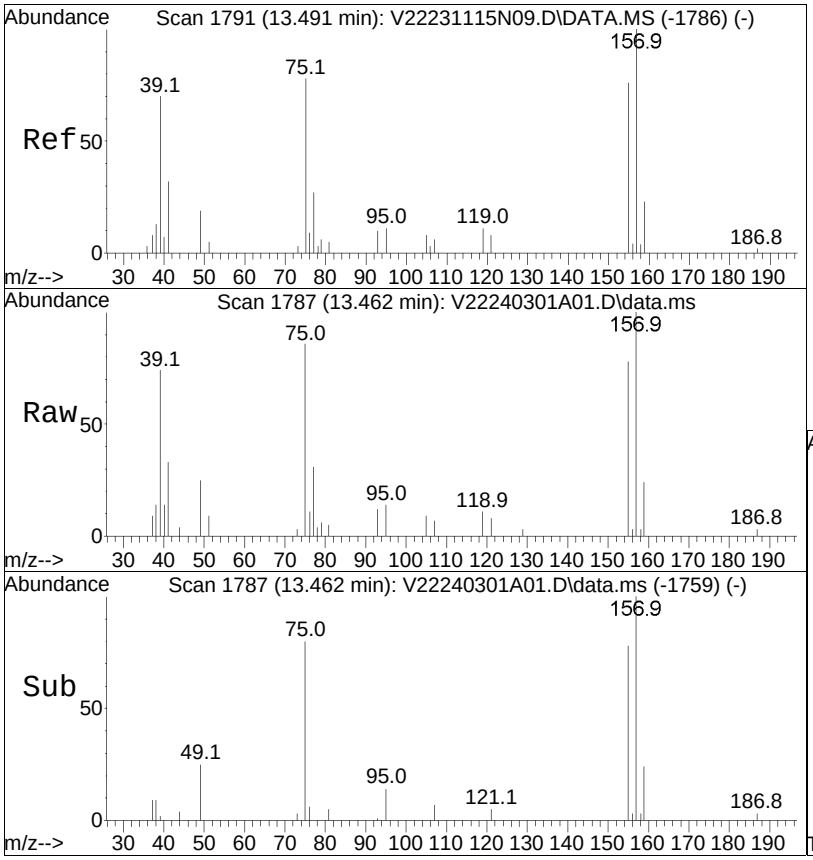


#108
1,2-Dichlorobenzene
Concen: 9.13 ug/L
RT: 12.682 min Scan# 1675
Delta R.T. -0.007 min
Lab File: V22240301A01.D
Acq: 01 Mar 2024 08:30 am

Tgt Ion:146 Resp: 133701

Ion	Ratio	Lower	Upper
146	100		
111	40.6	24.8	51.6
148	62.0	42.2	87.6

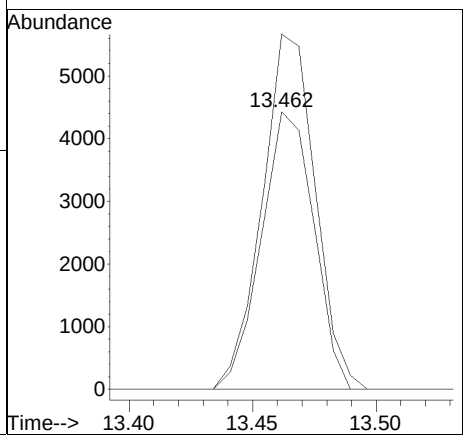


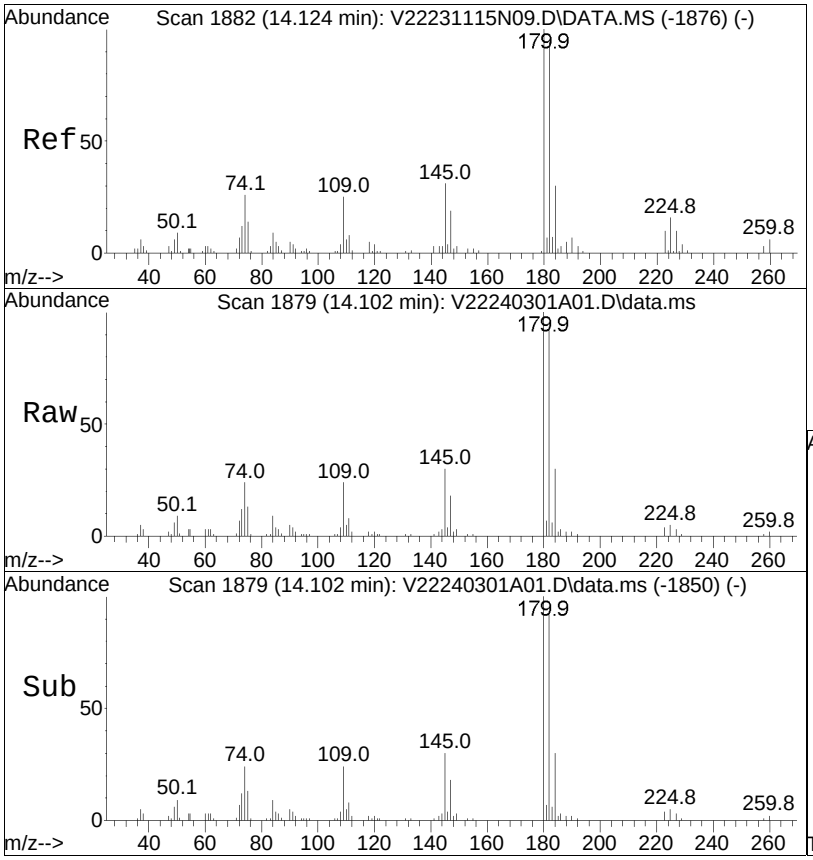


#110
1,2-Dibromo-3-chloropropane
Concen: 6.91 ug/L
RT: 13.462 min Scan# 1787
Delta R.T. -0.007 min
Lab File: V22240301A01.D
Acq: 01 Mar 2024 08:30 am

Tgt Ion:155 Resp: 6575

Ion	Ratio	Lower	Upper
155	100		
157	129.1	102.3	153.5

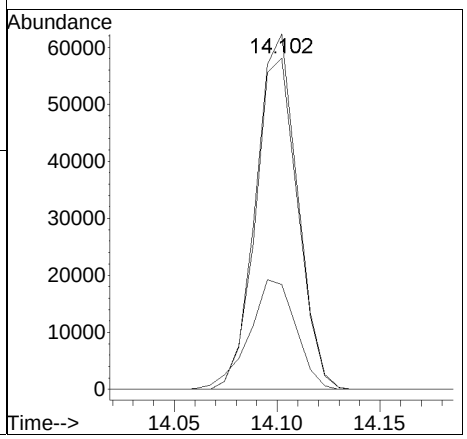


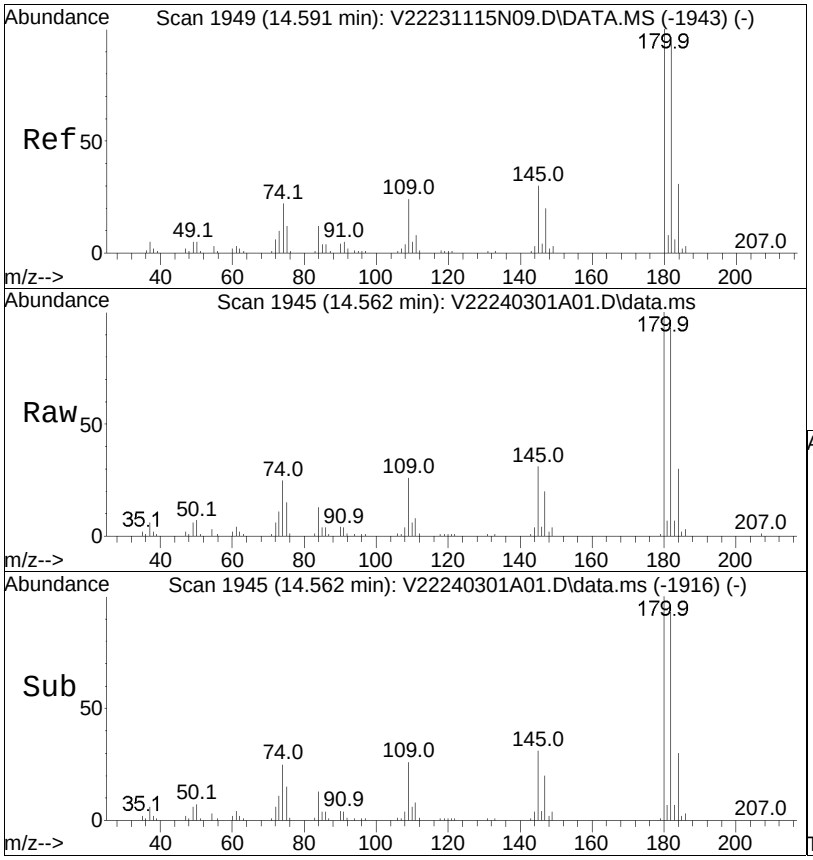


#113
1,2,4-Trichlorobenzene
Concen: 10.13 ug/L
RT: 14.102 min Scan# 1879
Delta R.T. 0.000 min
Lab File: V22240301A01.D
Acq: 01 Mar 2024 08:30 am

Tgt Ion:180 Resp: 87728

Ion	Ratio	Lower	Upper
180	100		
182	94.6	76.6	114.8
145	34.7	25.5	38.3

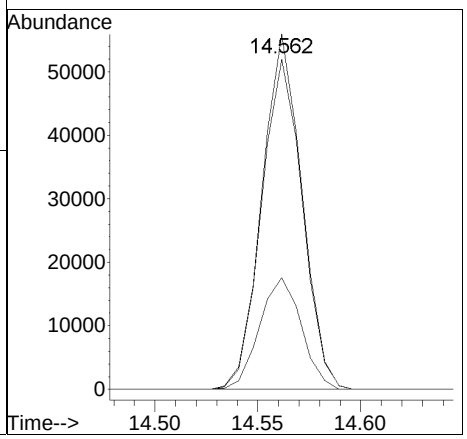




#115
1,2,3-Trichlorobenzene
Concen: 10.12 ug/L
RT: 14.562 min Scan# 1945
Delta R.T. 0.000 min
Lab File: V22240301A01.D
Acq: 01 Mar 2024 08:30 am

Tgt Ion:180 Resp: 75415

Ion	Ratio	Lower	Upper
180	100		
182	95.1	76.0	114.0
145	32.9	23.8	35.8



Quantitation Report (QT Reviewed)

Data Path : K:\VOA122\2024\240301A\
Data File : V22240301A02.D
Acq On : 01 Mar 2024 08:54 am
Operator : VOA122:PID
Sample : WG1891888-4,31,10,10 (Sig #1); 8260 CCAL (Sig #2)
Misc : WG1891888,ICAL20803 (Sig #1); WG,ICAL20803 (Sig #2)
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 01 09:46:38 2024
Quant Method : K:\VOA122\2024\240301A\V122_240122N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jan 24 07:06:18 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA122\2024\240301A\V22240301A01.D
Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	5.990	96	517122	10.000	ug/L	0.00
Standard Area 1 = 514325			Recovery = 100.54%			
62) Chlorobenzene-d5	9.533	117	442180	10.000	ug/L	0.00
Standard Area 1 = 441026			Recovery = 100.26%			
83) 1,4-Dichlorobenzene-d4	12.243	152	223735	10.000	ug/L	0.00
Standard Area 1 = 230262			Recovery = 97.17%			
System Monitoring Compounds						
38) Dibromofluoromethane	5.177	113	186501	10.255	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 102.55%			
46) 1,2-Dichloroethane-d4	5.702	65	184562	11.052	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 110.52%			
63) Toluene-d8	7.689	98	565541	10.255	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 102.55%			
87) 4-Bromofluorobenzene	11.034	95	205826	10.007	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.07%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.632	85	87535	10.385	ug/L	98
3) Chloromethane	1.822	50	139839	10.714	ug/L	97
4) Vinyl chloride	1.894	62	121914	11.249	ug/L	96
5) Bromomethane	2.202	94	34718	5.319	ug/L	97
6) Chloroethane	2.320	64	67906	11.259	ug/L	96
7) Trichlorofluoromethane	2.457	101	126488	10.891	ug/L	100
10) 1,1-Dichloroethene	2.949	96	78806	10.690	ug/L #	59
11) Carbon disulfide	2.975	76	267117	11.192	ug/L	99
12) Freon-113	2.988	101	80586	11.778	ug/L	96
15) Methylene chloride	3.493	84	90023	9.891	ug/L #	58
17) Acetone	3.526	43	15233	9.892	ug/L	99
18) trans-1,2-Dichloroethene	3.644	96	87647	10.468	ug/L #	72
19) Methyl acetate	3.650	43	35918	10.902	ug/L #	87
21) Methyl tert-butyl ether	3.742	73	126306	9.594	ug/L #	82
25) 1,1-Dichloroethane	4.220	63	195785	11.495	ug/L	94
30) cis-1,2-Dichloroethene	4.738	96	94773	10.111	ug/L #	72
32) Bromochloromethane	4.928	128	42945	9.995	ug/L #	66
33) Cyclohexane	4.941	56	206238	13.672	ug/L #	61
34) Chloroform	5.000	83	147957	9.896	ug/L #	94
36) Carbon tetrachloride	5.145	117	116912	10.180	ug/L	98

Quantitation Report (QT Reviewed)

Data Path : K:\VOA122\2024\240301A\
Data File : V22240301A02.D
Acq On : 01 Mar 2024 08:54 am
Operator : VOA122:PID
Sample : WG1891888-4,31,10,10 (Sig #1); 8260 CCAL (Sig #2)
Misc : WG1891888,ICAL20803 (Sig #1); WG,ICAL20803 (Sig #2)
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 01 09:46:38 2024
Quant Method : K:\VOA122\2024\240301A\V122_240122N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jan 24 07:06:18 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA122\2024\240301A\V22240301A01.D
Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
39) 1,1,1-Trichloroethane	5.204	97	133883	10.163	ug/L		94
41) 2-Butanone	5.289	43	19048	9.877	ug/L	#	38
44) Benzene	5.571	78	316003	10.428	ug/L	#	89
47) 1,2-Dichloroethane	5.774	62	85219	10.349	ug/L		97
50) Methyl cyclohexane	6.167	83	106918	10.591	ug/L	#	55
51) Trichloroethene	6.167	95	64642	9.178	ug/L		99
54) 1,2-Dichloropropane	6.709	63	72237	10.556	ug/L		93
57) Bromodichloromethane	6.778	83	80460	9.078	ug/L		99
60) 1,4-Dioxane	6.987	88	18224	437.766	ug/L	#	54
61) cis-1,3-Dichloropropene	7.473	75	80497	8.695	ug/L	#	89
64) Toluene	7.751	92	170164	9.968	ug/L		97
65) 4-Methyl-2-pentanone	8.182	58	12521	9.617	ug/L	#	95
66) Tetrachloroethene	8.196	166	75938	10.496	ug/L		96
68) trans-1,3-Dichloropropene	8.224	75	64654	7.925	ug/L		87
71) 1,1,2-Trichloroethane	8.412	83	32319	8.252	ug/L		97
72) Chlorodibromomethane	8.621	129	48057	7.677	ug/L		100
74) 1,2-Dibromoethane	8.895	107	39407	8.780	ug/L		100
76) 2-Hexanone	9.189	43	20421	8.696	ug/L		96
77) Chlorobenzene	9.554	112	188703	9.539	ug/L		93
78) Ethylbenzene	9.603	91	338001	10.196	ug/L		98
80) p/m Xylene	9.792	106	260912	19.841	ug/L		97
81) o Xylene	10.332	106	244661	19.312	ug/L		95
82) Styrene	10.395	104	393038	19.255	ug/L		97
84) Bromoform	10.409	173	25217	7.754	ug/L		98
86) Isopropylbenzene	10.718	105	344747	10.201	ug/L		98
91) 1,1,2,2-Tetrachloroethane	11.272	83	42558	9.379	ug/L		98
104) 1,3-Dichlorobenzene	12.167	146	152666	9.502	ug/L		98
105) 1,4-Dichlorobenzene	12.264	146	148232	9.408	ug/L		98
108) 1,2-Dichlorobenzene	12.682	146	133863	9.408	ug/L		97
110) 1,2-Dibromo-3-chloropr...	13.469	155	6896	7.458	ug/L		95
113) 1,2,4-Trichlorobenzene	14.102	180	88040	10.466	ug/L		98
115) 1,2,3-Trichlorobenzene	14.561	180	76703	10.595	ug/L		98

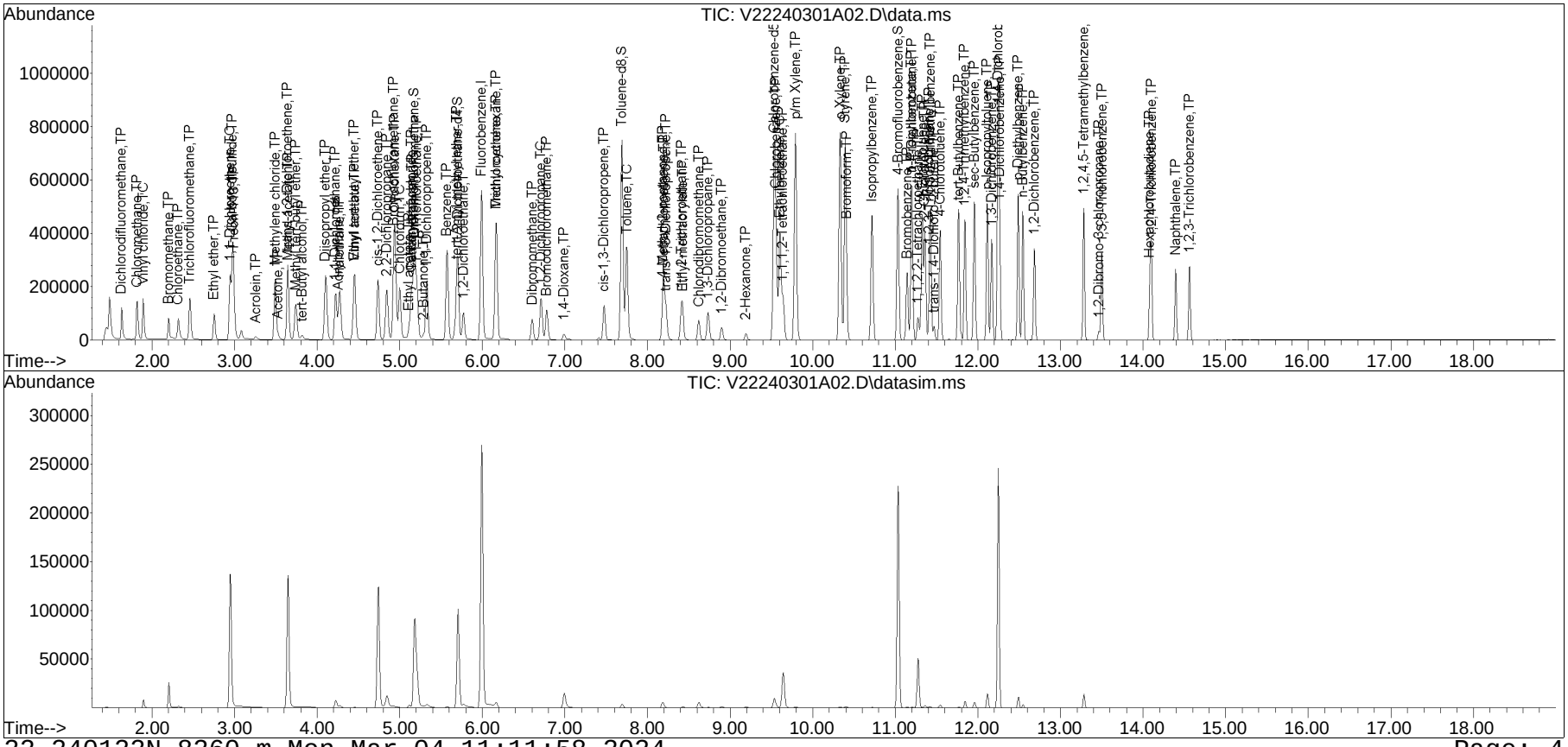
(#) = qualifier out of range (m) = manual integration (+) = signals summed

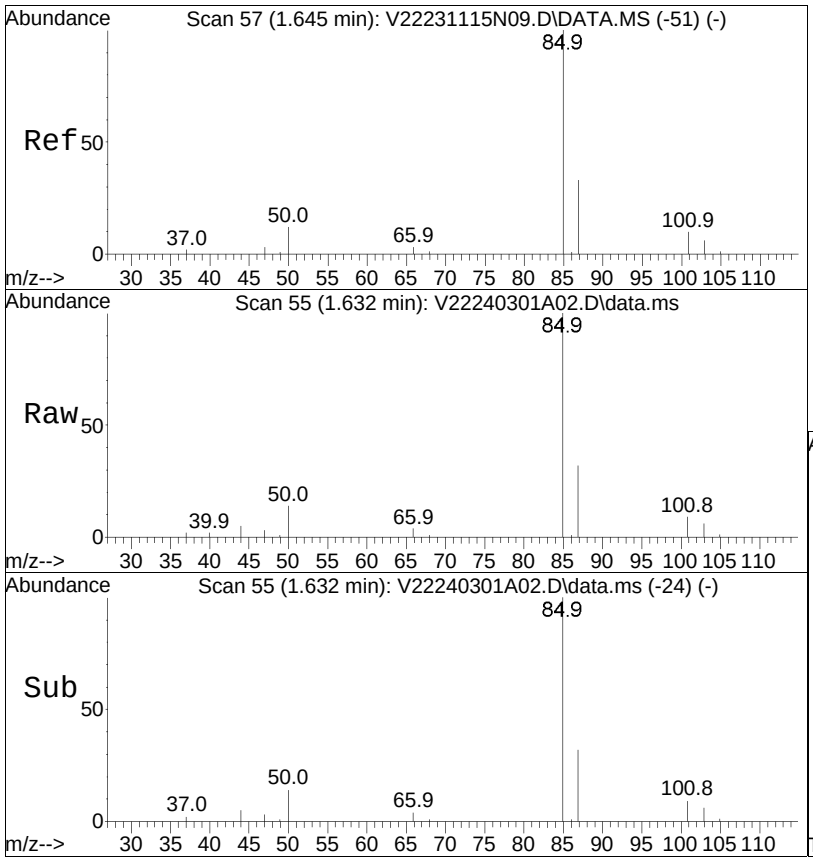
Quantitation Report (QT Reviewed)

Data Path : K:\VOA122\2024\240301A\
Data File : V22240301A02.D
Acq On : 01 Mar 2024 08:54 am
Operator : VOA122:PID
Sample : WG1891888-4,31,10,10 (Sig #1); 8260 CCAL (Sig #2)
Misc : WG1891888,ICAL20803 (Sig #1); WG,ICAL20803 (Sig #2)
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 01 09:46:38 2024
Quant Method : K:\VOA122\2024\240301A\V122_240122N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jan 24 07:06:18 2024
Response via : Initial Calibration

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

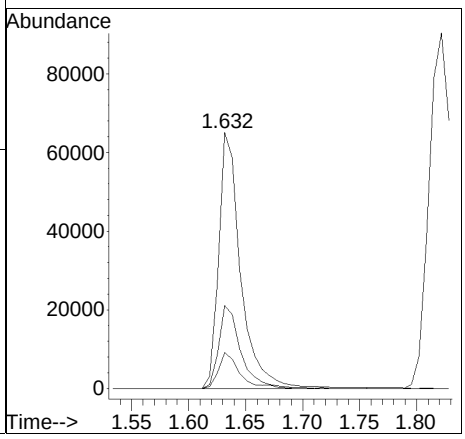


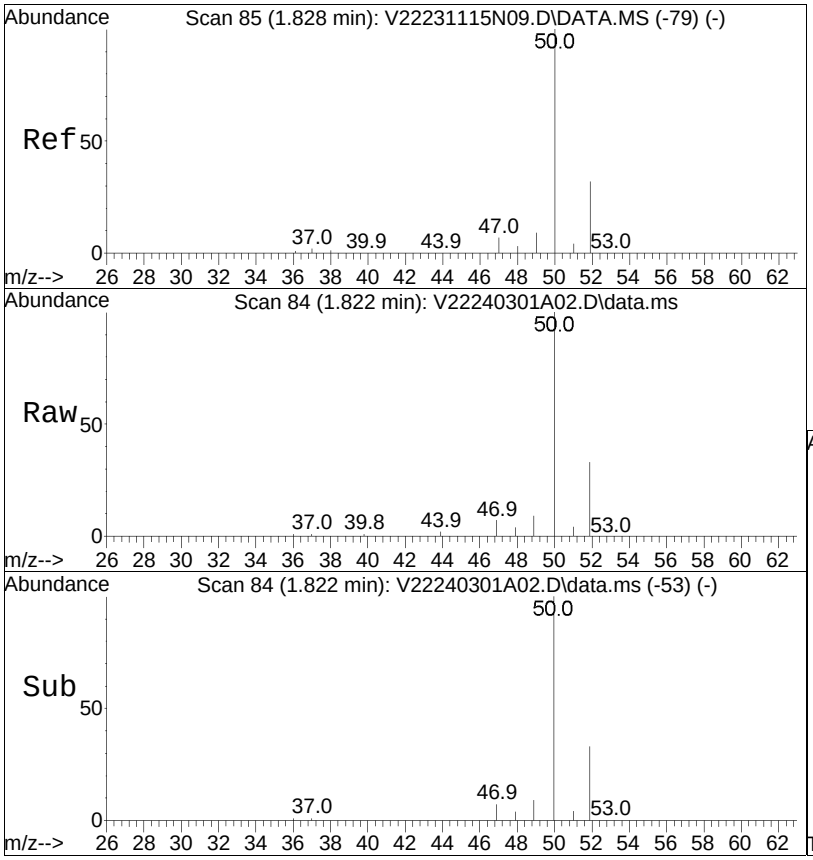


#2
Dichlorodifluoromethane
Concen: 10.39 ug/L
RT: 1.632 min Scan# 55
Delta R.T. 0.000 min
Lab File: V22240301A02.D
Acq: 01 Mar 2024 08:54 am

Tgt Ion: 85 Resp: 87535

Ion	Ratio	Lower	Upper
85	100		
87	32.2	20.7	42.9
50	13.4	6.8	14.2

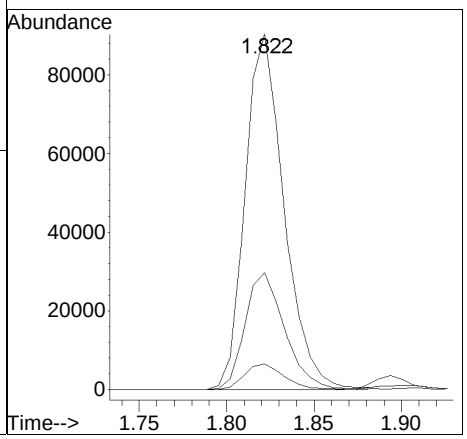


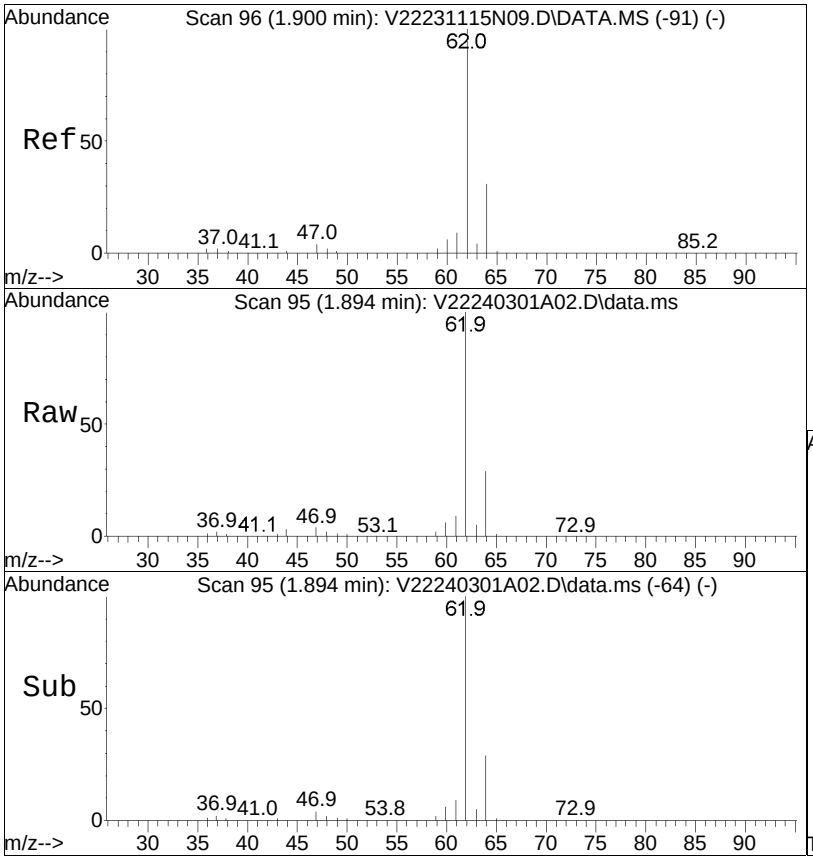


#3
Chloromethane
Concen: 10.71 ug/L
RT: 1.822 min Scan# 84
Delta R.T. 0.000 min
Lab File: V22240301A02.D
Acq: 01 Mar 2024 08:54 am

Tgt Ion: 50 Resp: 139839

Ion	Ratio	Lower	Upper
50	100		
52	33.5	12.8	52.8
47	7.2	0.0	30.0

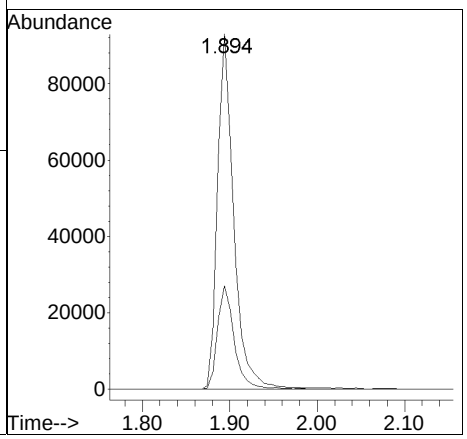


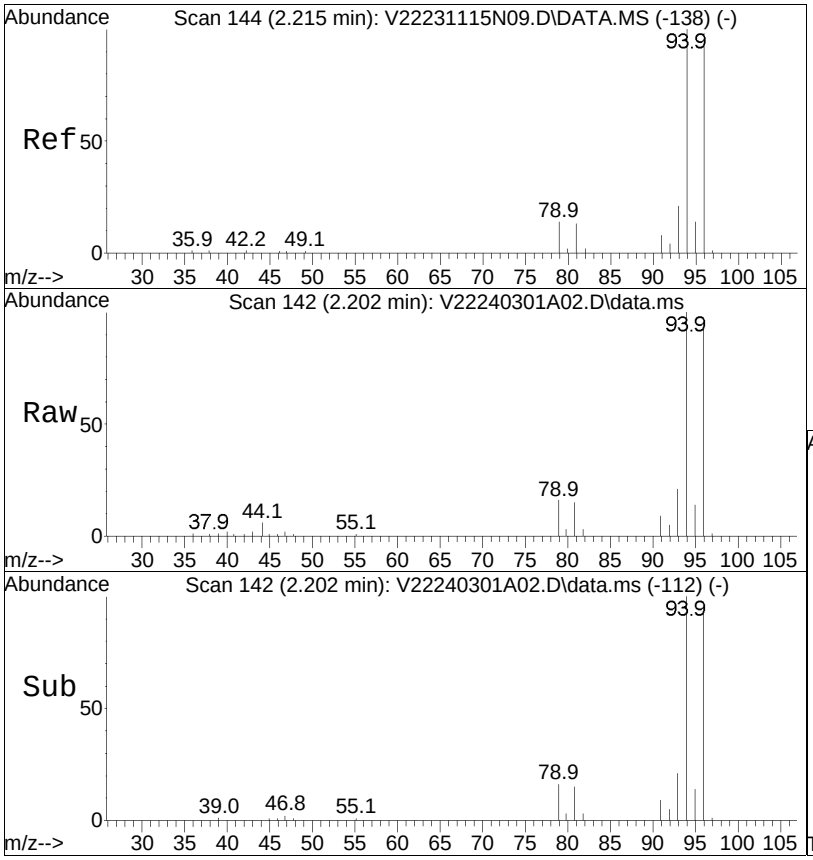


#4
Vinyl chloride
Concen: 11.25 ug/L
RT: 1.894 min Scan# 95
Delta R.T. 0.000 min
Lab File: V22240301A02.D
Acq: 01 Mar 2024 08:54 am

Tgt Ion: 62 Resp: 121914

Ion	Ratio	Lower	Upper
62	100		
64	29.9	12.0	52.0

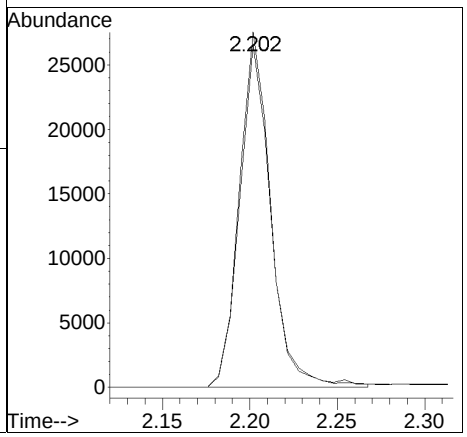


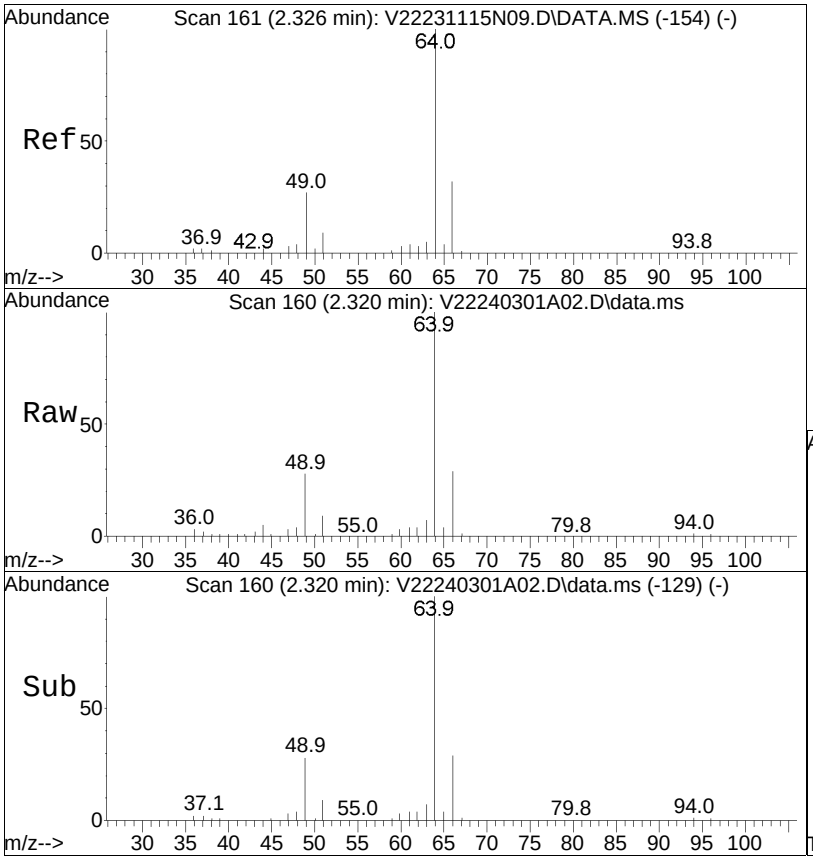


#5
Bromomethane
Concen: 5.32 ug/L
RT: 2.202 min Scan# 142
Delta R.T. -0.006 min
Lab File: V22240301A02.D
Acq: 01 Mar 2024 08:54 am

Tgt Ion: 94 Resp: 34718

Ion	Ratio	Lower	Upper
94	100		
96	95.5	72.8	112.8

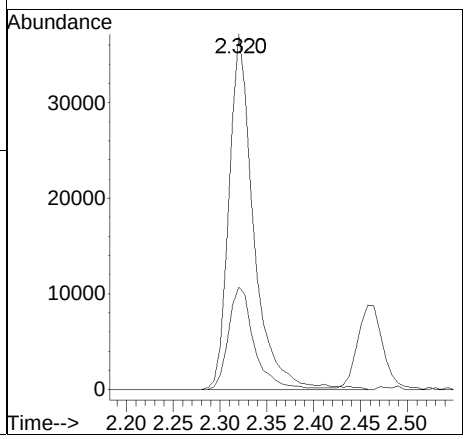


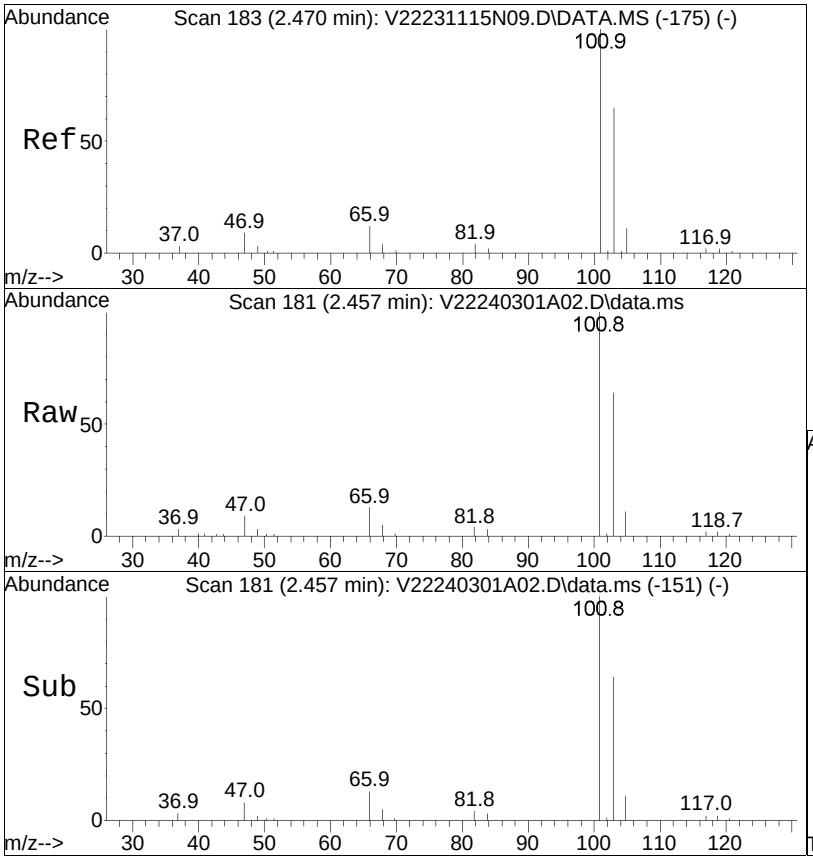


#6
Chloroethane
Concen: 11.26 ug/L
RT: 2.320 min Scan# 160
Delta R.T. 0.000 min
Lab File: V22240301A02.D
Acq: 01 Mar 2024 08:54 am

Tgt Ion: 64 Resp: 67906

Ion	Ratio	Lower	Upper
64	100		
66	30.2	12.2	52.2

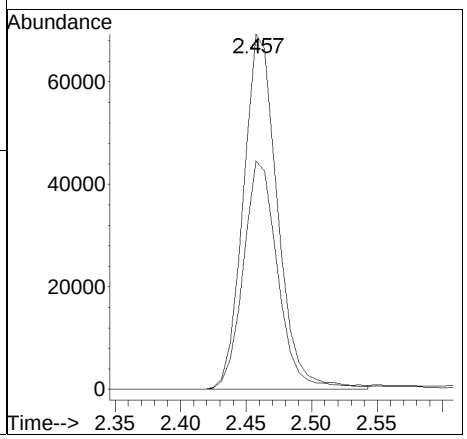


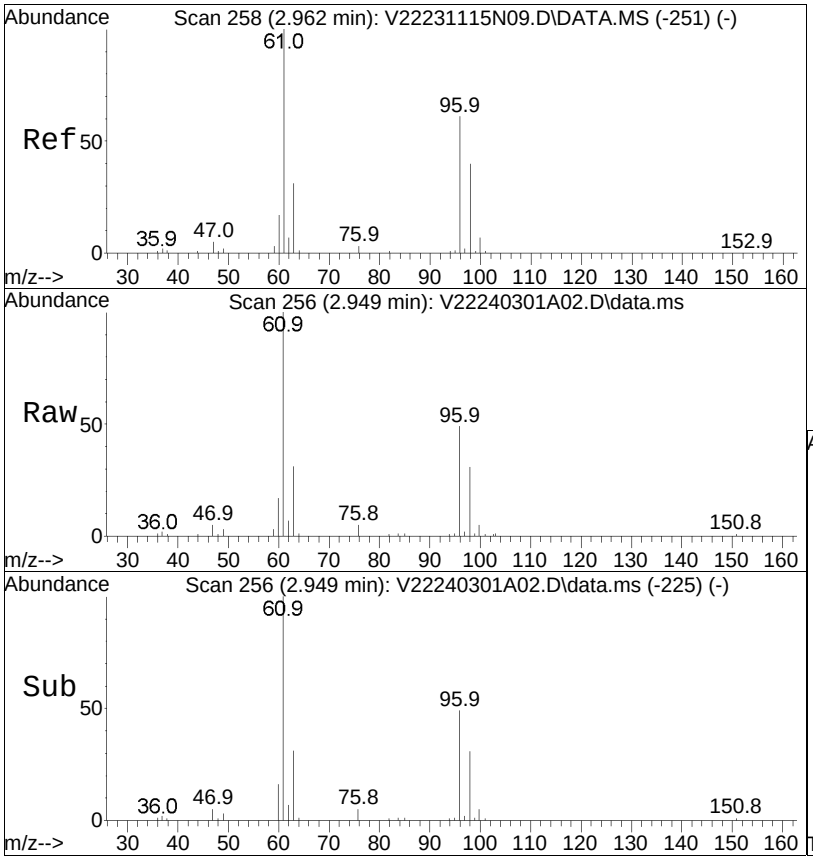


#7
Trichlorofluoromethane
Concen: 10.89 ug/L
RT: 2.457 min Scan# 181
Delta R.T. -0.006 min
Lab File: V22240301A02.D
Acq: 01 Mar 2024 08:54 am

Tgt Ion:101 Resp: 126488

Ion	Ratio	Lower	Upper
101	100		
103	64.6	51.6	77.4

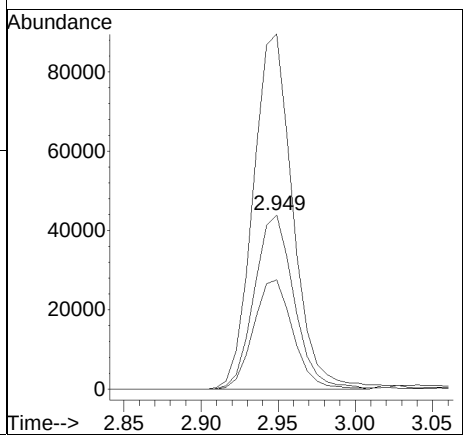


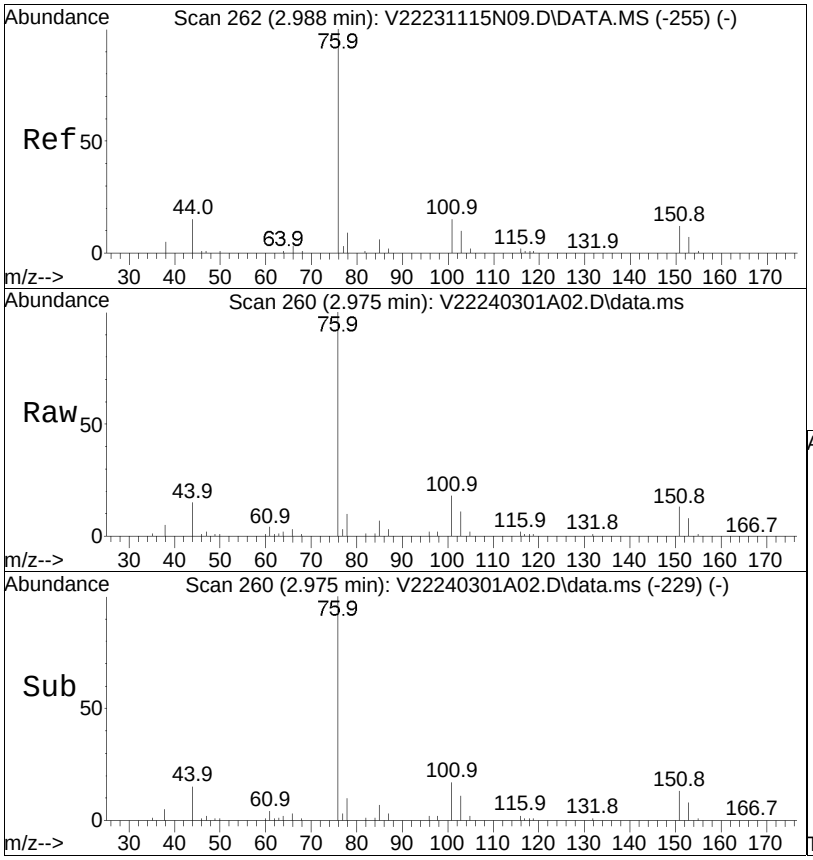


#10
1,1-Dichloroethene
Concen: 10.69 ug/L
RT: 2.949 min Scan# 256
Delta R.T. 0.000 min
Lab File: V22240301A02.D
Acq: 01 Mar 2024 08:54 am

Tgt Ion: 96 Resp: 78806

Ion	Ratio	Lower	Upper
96	100		
61	205.0	117.0	175.4#
63	62.7	37.8	56.6#

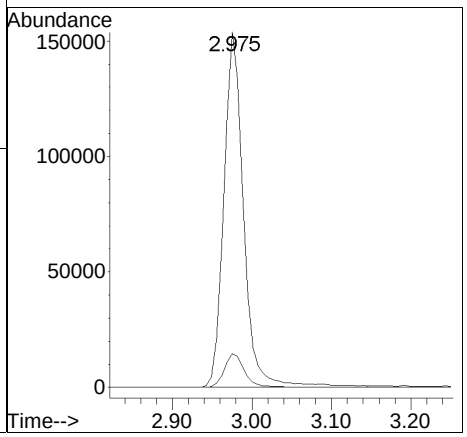


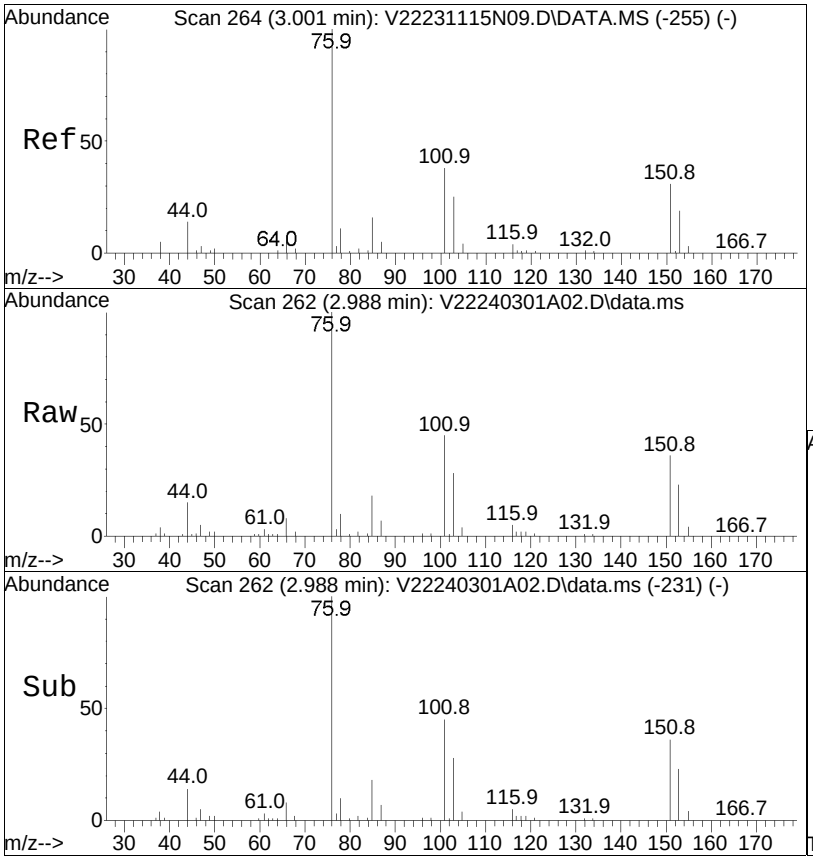


#11
Carbon disulfide
Concen: 11.19 ug/L
RT: 2.975 min Scan# 260
Delta R.T. 0.000 min
Lab File: V22240301A02.D
Acq: 01 Mar 2024 08:54 am

Tgt Ion: 76 Resp: 267117

Ion	Ratio	Lower	Upper
76	100		
78	9.7	6.4	13.4

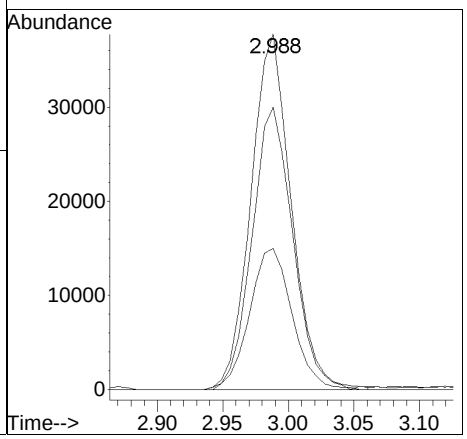


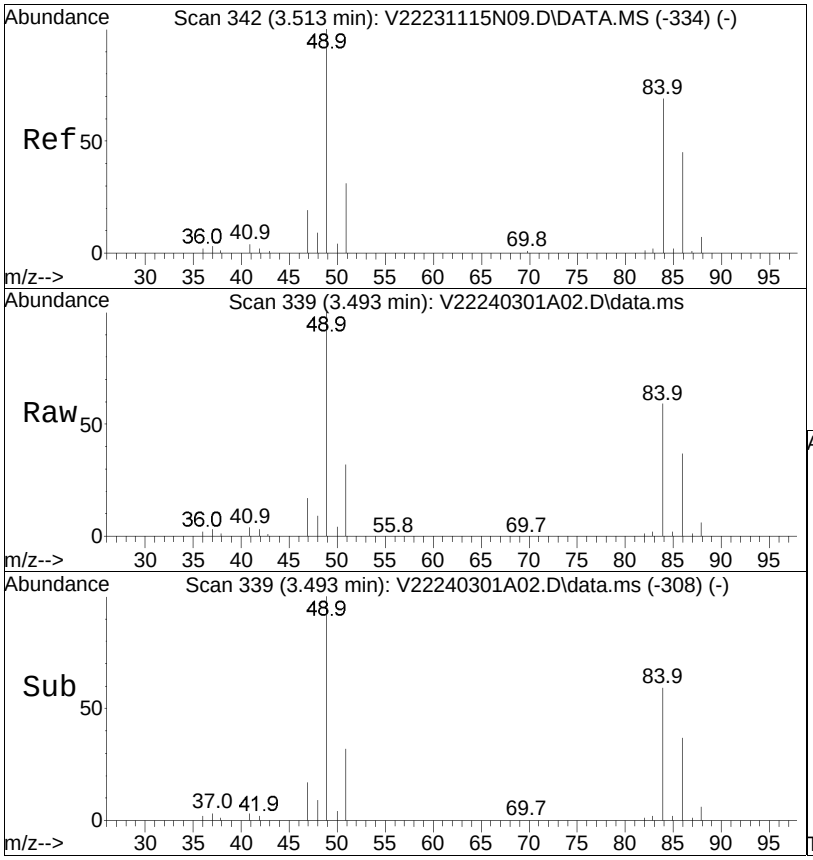


#12
Freon-113
Concen: 11.78 ug/L
RT: 2.988 min Scan# 262
Delta R.T. 0.000 min
Lab File: V22240301A02.D
Acq: 01 Mar 2024 08:54 am

Tgt Ion:101 Resp: 80586

Ion	Ratio	Lower	Upper
101	100		
151	80.4	68.5	102.7
85	41.8	33.1	49.7

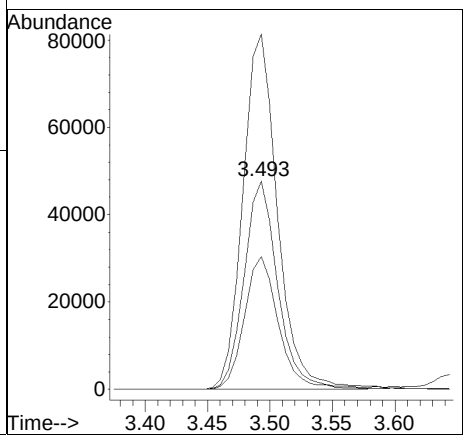


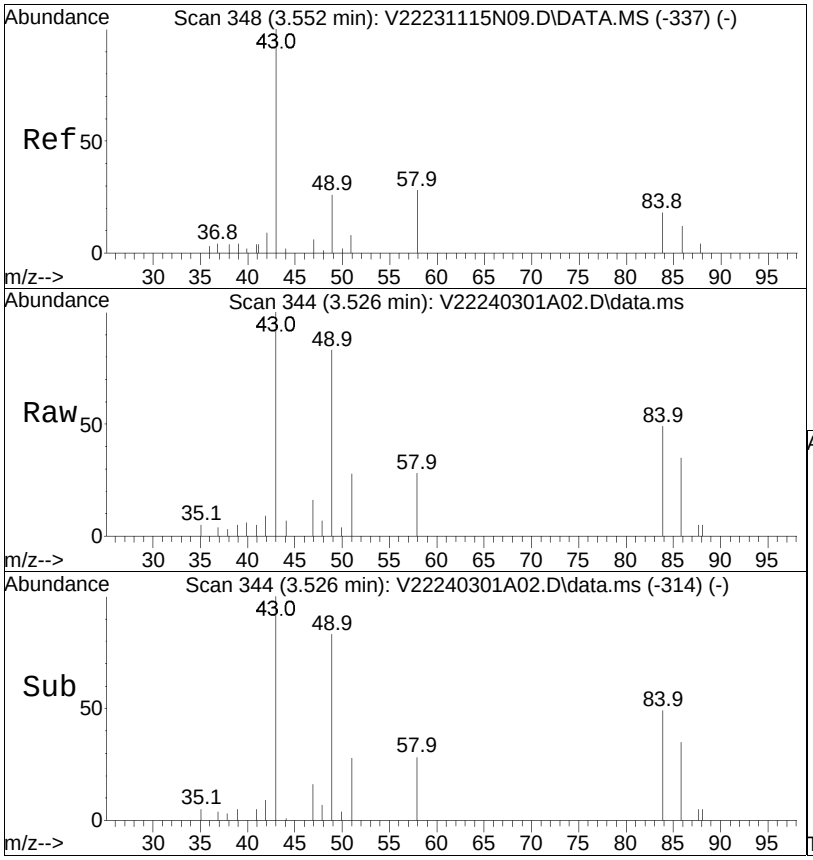


#15
Methylene chloride
Concen: 9.89 ug/L
RT: 3.493 min Scan# 339
Delta R.T. 0.000 min
Lab File: V22240301A02.D
Acq: 01 Mar 2024 08:54 am

Tgt Ion: 84 Resp: 90023

Ion	Ratio	Lower	Upper
84	100		
86	64.5	41.5	86.3
49	175.1	68.8	143.0#

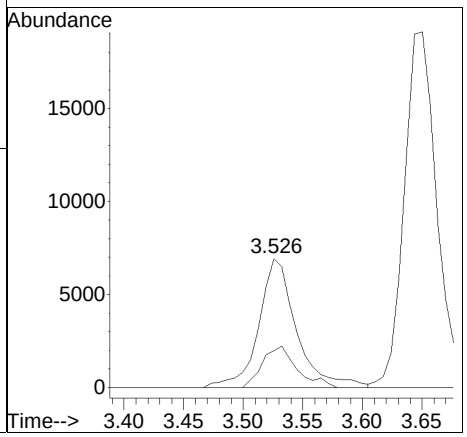


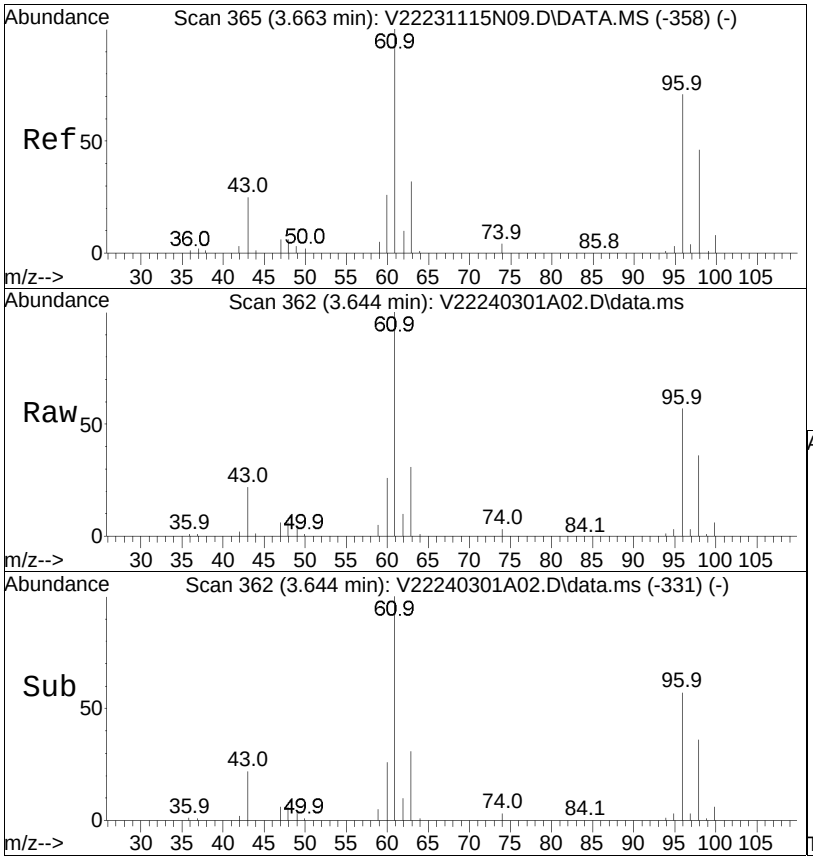


#17
Acetone
Concen: 9.89 ug/L
RT: 3.526 min Scan# 344
Delta R.T. -0.000 min
Lab File: V22240301A02.D
Acq: 01 Mar 2024 08:54 am

Tgt Ion: 43 Resp: 15233

Ion	Ratio	Lower	Upper
43	100		
58	29.2	23.1	34.7

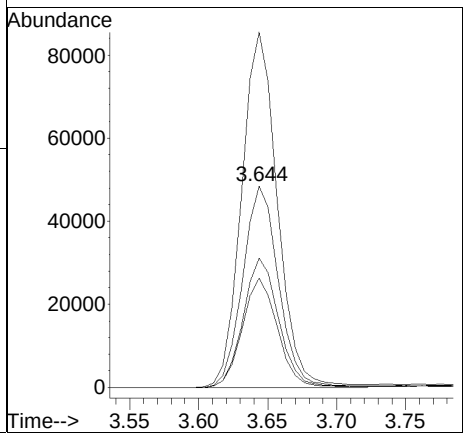


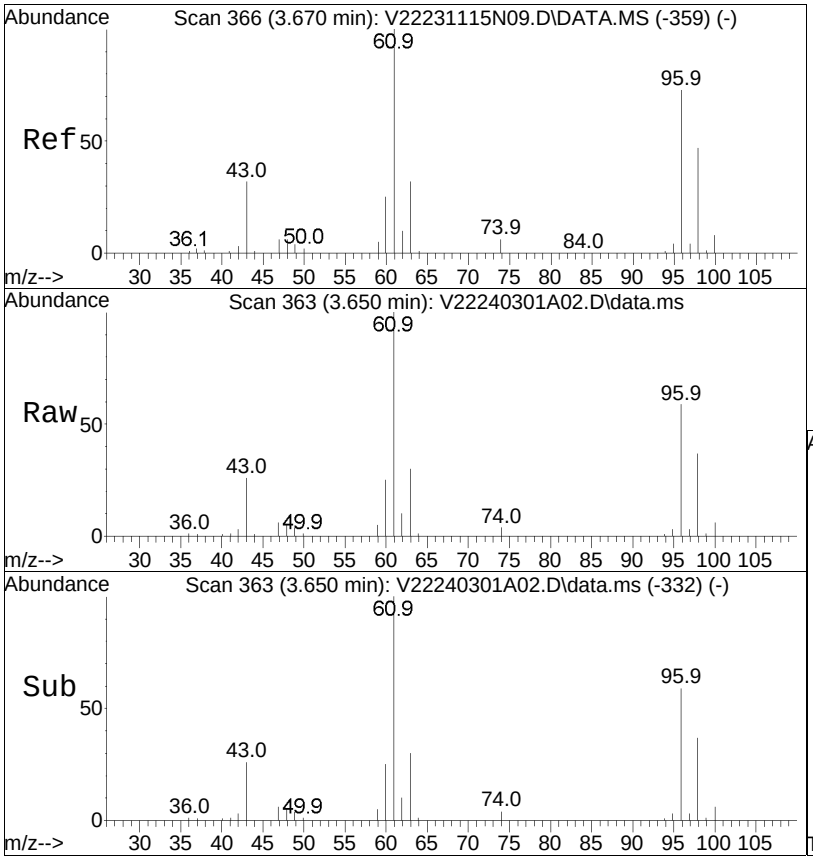


#18
trans-1,2-Dichloroethene
Concen: 10.47 ug/L
RT: 3.644 min Scan# 362
Delta R.T. 0.000 min
Lab File: V22240301A02.D
Acq: 01 Mar 2024 08:54 am

Tgt Ion: 96 Resp: 87647

Ion	Ratio	Lower	Upper
96	100		
61	175.7	81.6	169.6#
98	63.9	41.8	86.8
63	53.6	26.3	54.7

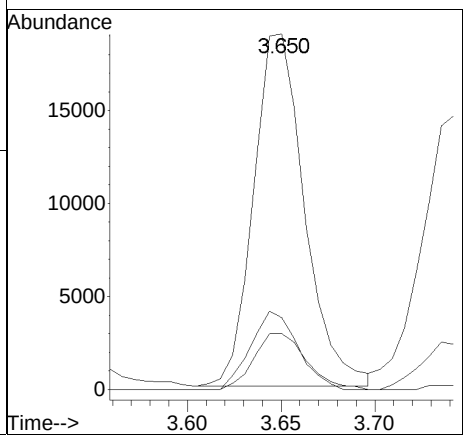


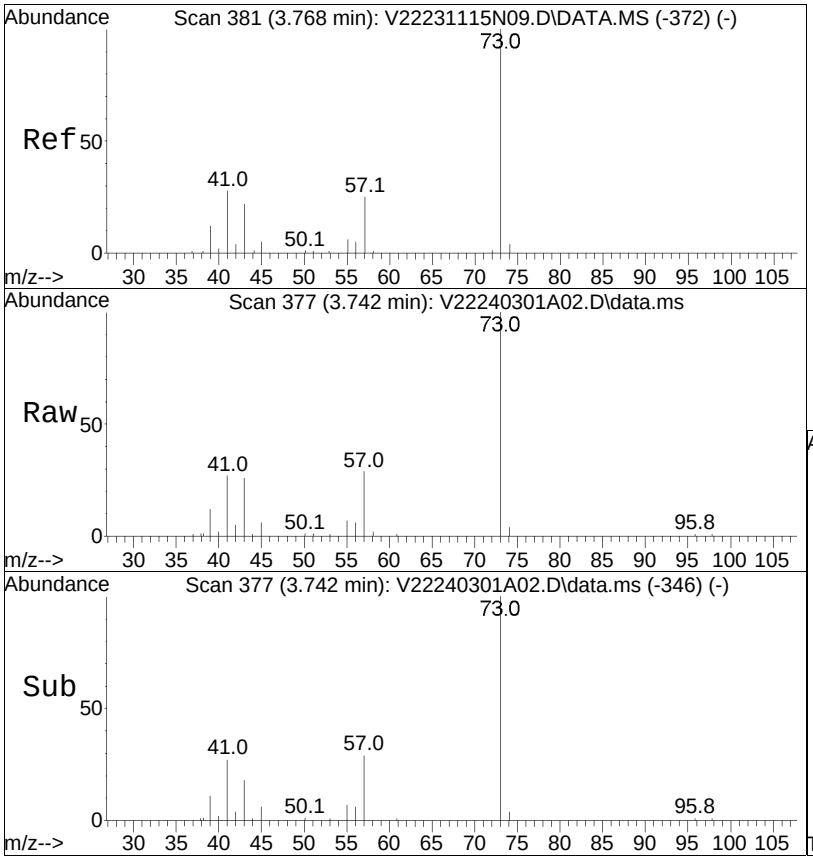


#19
Methyl acetate
Concen: 10.90 ug/L
RT: 3.650 min Scan# 363
Delta R.T. 0.000 min
Lab File: V22240301A02.D
Acq: 01 Mar 2024 08:54 am

Tgt Ion: 43 Resp: 35918

Ion	Ratio	Lower	Upper
43	100		
74	16.3	21.8	32.6#
59	20.5	18.1	27.1

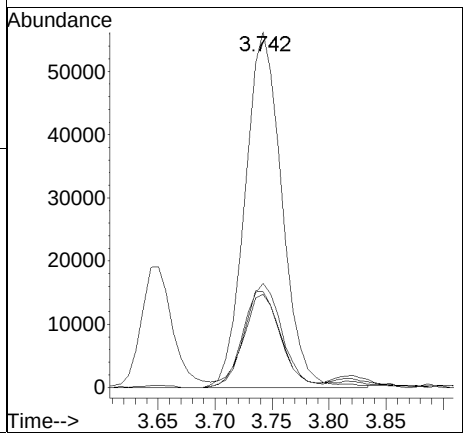


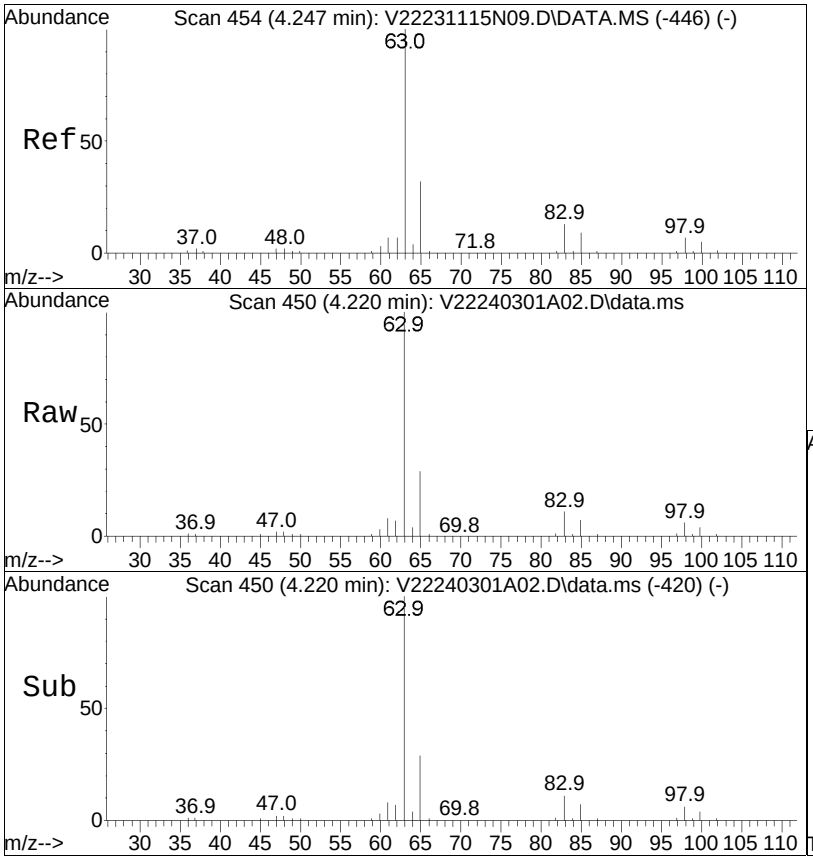


#21
Methyl tert-butyl ether
Concen: 9.59 ug/L
RT: 3.742 min Scan# 377
Delta R.T. 0.000 min
Lab File: V22240301A02.D
Acq: 01 Mar 2024 08:54 am

Tgt Ion: 73 Resp: 126306

Ion	Ratio	Lower	Upper
73	100		
57	30.1	13.6	28.2#
43	25.7	12.7	26.5
41	27.3	11.4	23.8#

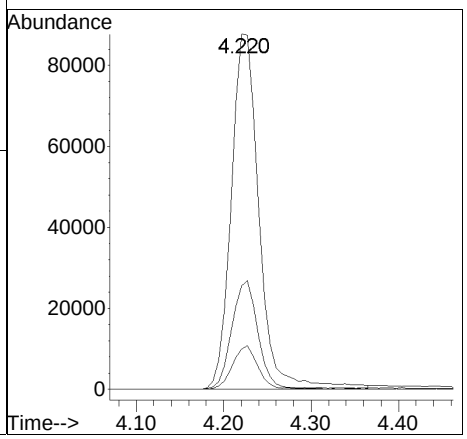


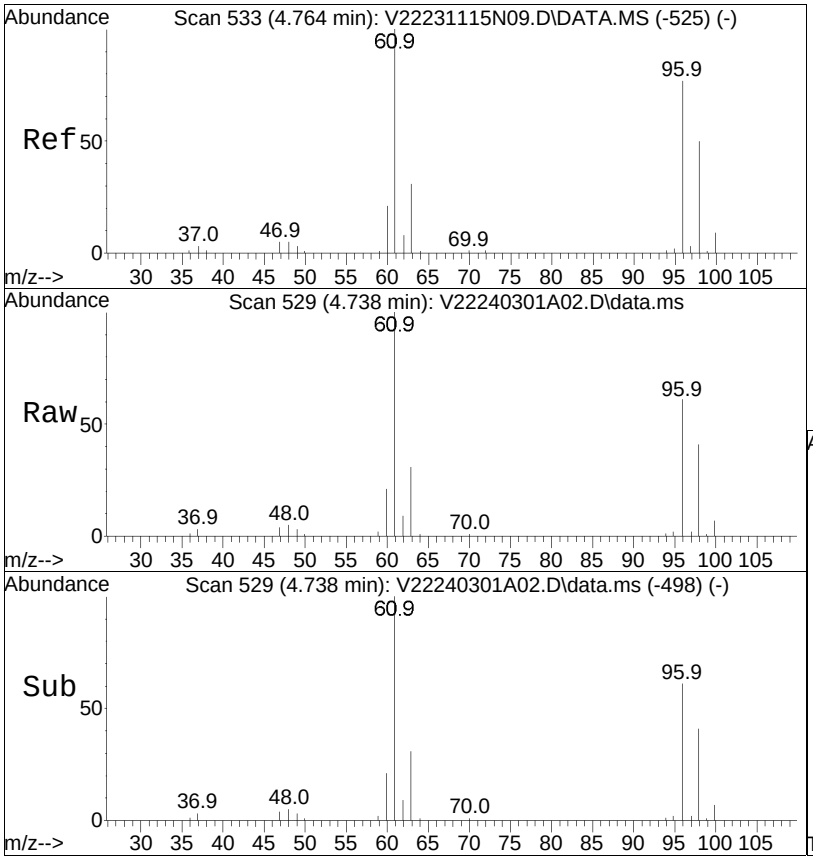


#25
1,1-Dichloroethane
Concen: 11.50 ug/L
RT: 4.220 min Scan# 450
Delta R.T. -0.006 min
Lab File: V22240301A02.D
Acq: 01 Mar 2024 08:54 am

Tgt Ion: 63 Resp: 195785

Ion	Ratio	Lower	Upper
63	100		
65	28.9	11.9	51.9
83	11.2	0.0	34.2

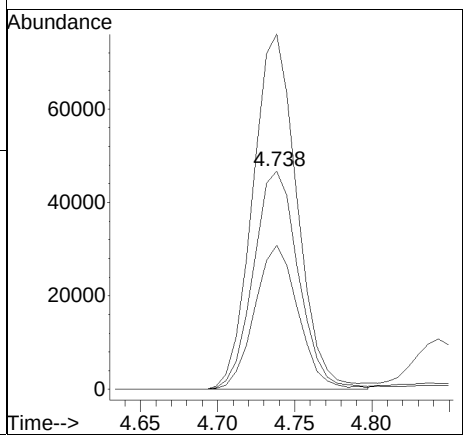


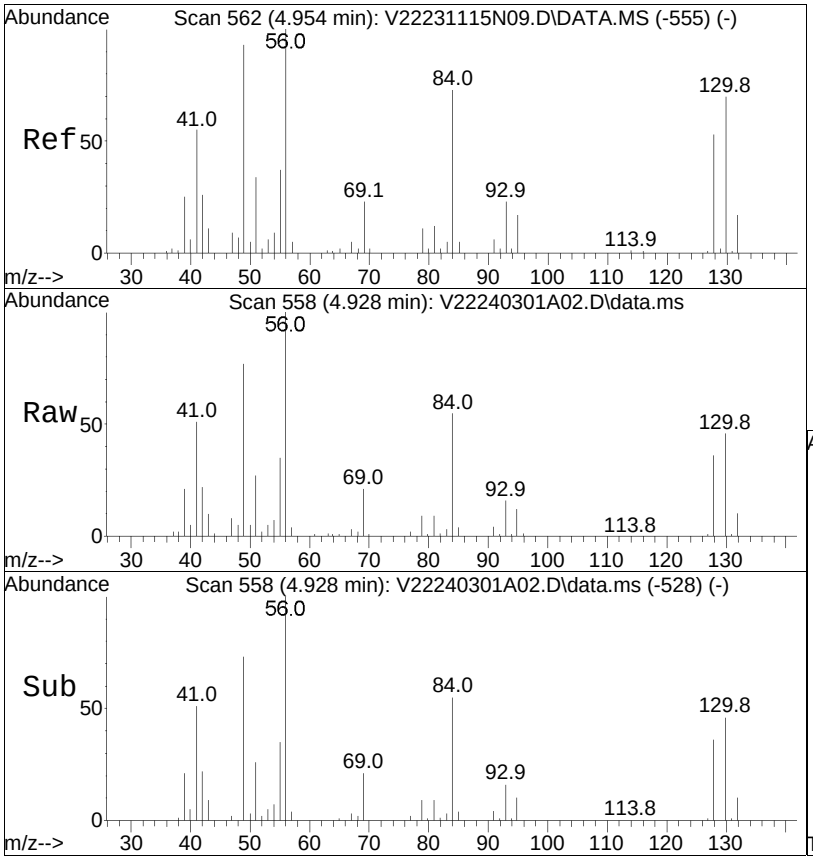


#30
cis-1,2-Dichloroethene
Concen: 10.11 ug/L
RT: 4.738 min Scan# 529
Delta R.T. 0.000 min
Lab File: V22240301A02.D
Acq: 01 Mar 2024 08:54 am

Tgt Ion: 96 Resp: 94773

Ion	Ratio	Lower	Upper
96	100		
61	159.8	90.3	135.5#
98	63.9	50.8	76.2

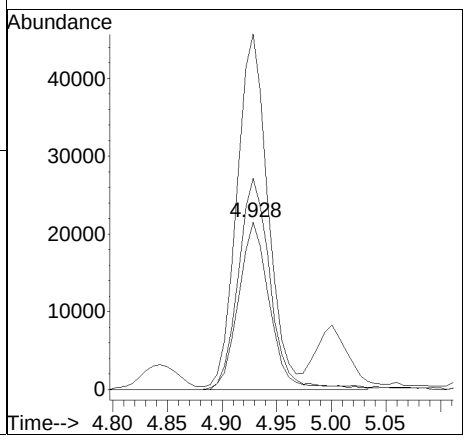


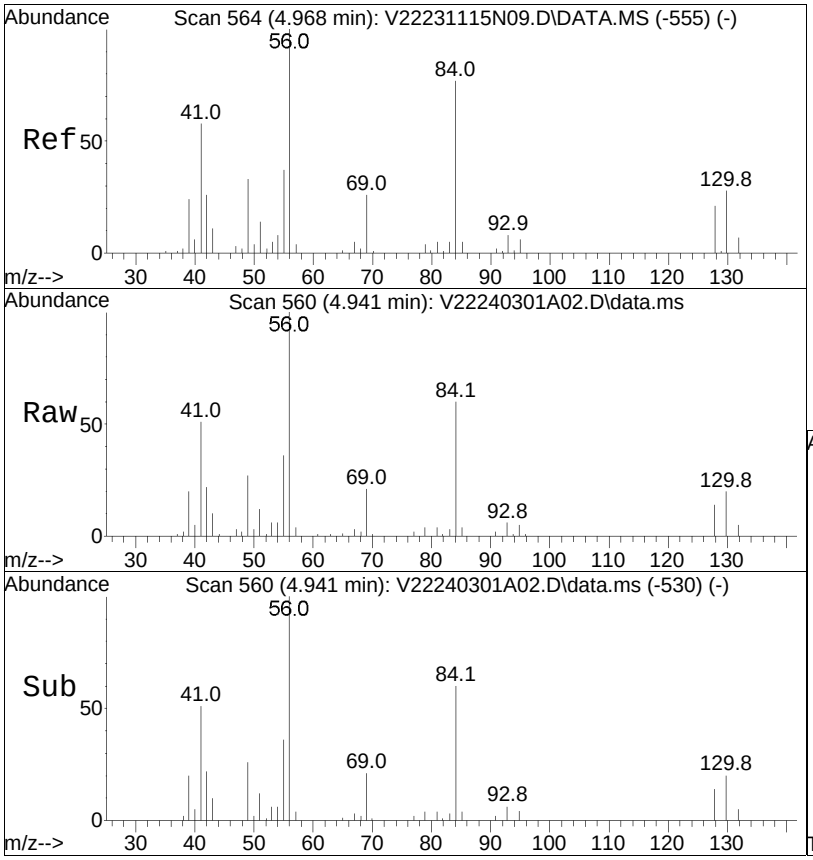


#32
Bromochloromethane
Concen: 10.00 ug/L
RT: 4.928 min Scan# 558
Delta R.T. -0.006 min
Lab File: V22240301A02.D
Acq: 01 Mar 2024 08:54 am

Tgt Ion:128 Resp: 42945

Ion	Ratio	Lower	Upper
128	100		
49	206.5	104.4	156.6#
130	127.3	103.9	155.9

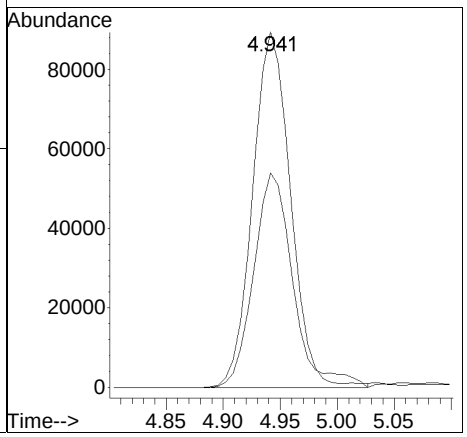


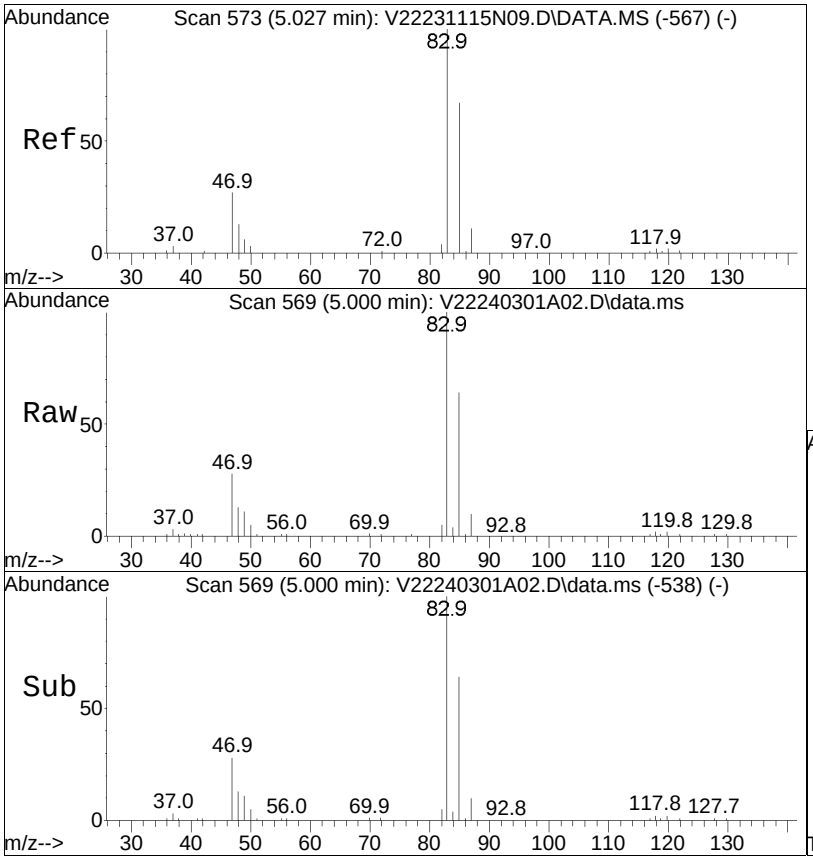


#33
Cyclohexane
Concen: 13.67 ug/L
RT: 4.941 min Scan# 560
Delta R.T. -0.006 min
Lab File: V22240301A02.D
Acq: 01 Mar 2024 08:54 am

Tgt Ion: 56 Resp: 206238

Ion	Ratio	Lower	Upper
56	100		
84	62.7	66.0	137.2#

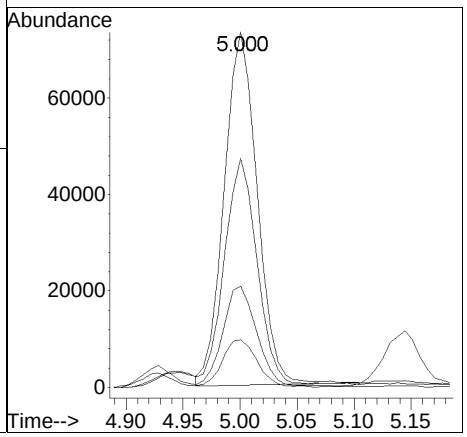


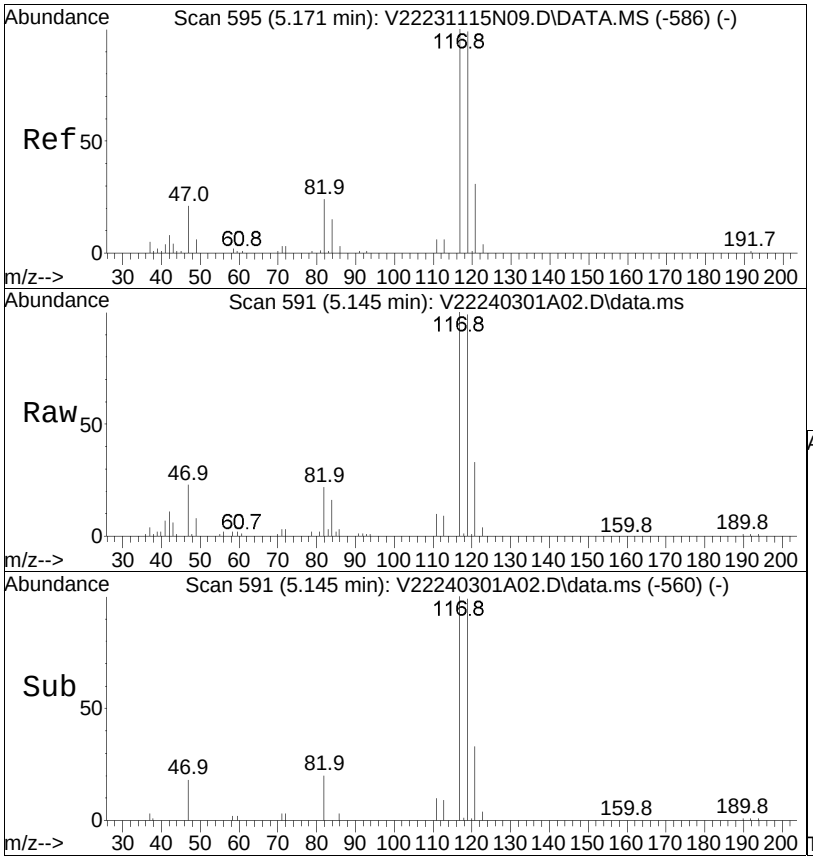


#34
Chloroform
Concen: 9.90 ug/L
RT: 5.000 min Scan# 569
Delta R.T. 0.000 min
Lab File: V22240301A02.D
Acq: 01 Mar 2024 08:54 am

Tgt Ion: 83 Resp: 147957

Ion	Ratio	Lower	Upper
83	100		
85	63.1	42.4	88.2
47	28.1	14.0	29.0
48	14.4	6.9	14.3#

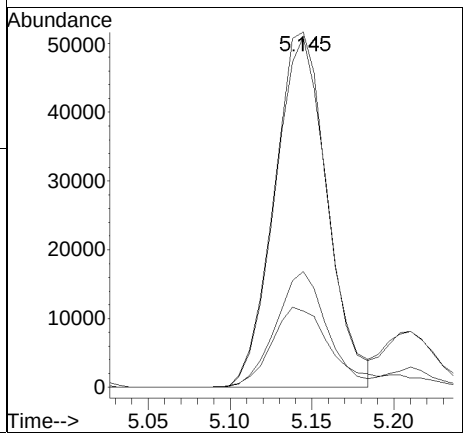


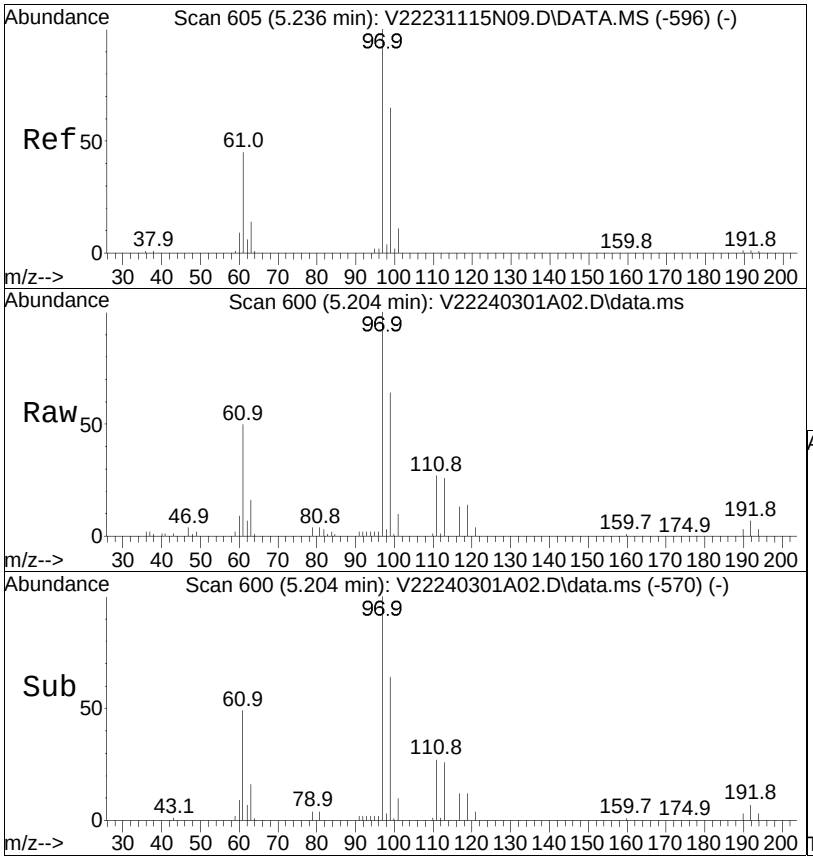


#36
Carbon tetrachloride
Concen: 10.18 ug/L
RT: 5.145 min Scan# 591
Delta R.T. 0.000 min
Lab File: V22240301A02.D
Acq: 01 Mar 2024 08:54 am

Tgt Ion:117 Resp: 116912

Ion	Ratio	Lower	Upper
117	100		
119	96.7	62.1	129.1
121	31.2	20.3	42.3
82	28.3	15.4	32.0

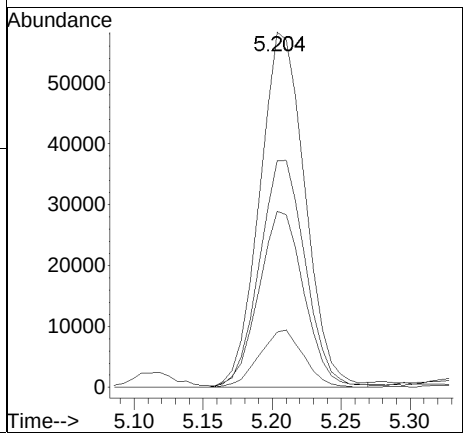


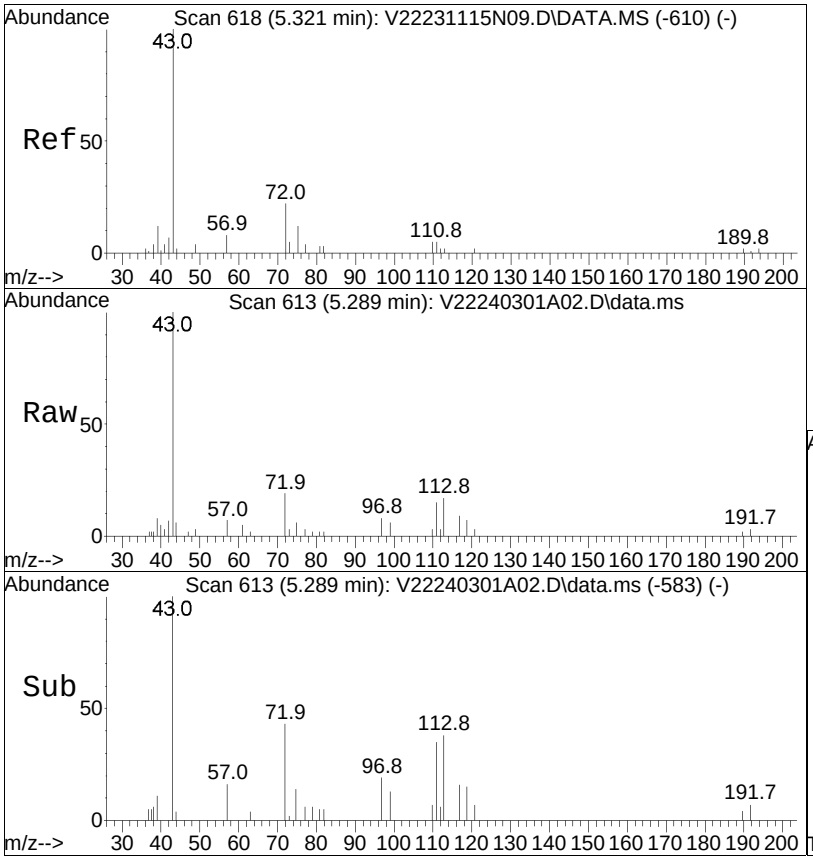


#39
1,1,1-Trichloroethane
Concen: 10.16 ug/L
RT: 5.204 min Scan# 600
Delta R.T. -0.006 min
Lab File: V22240301A02.D
Acq: 01 Mar 2024 08:54 am

Tgt Ion: 97 Resp: 133883

Ion	Ratio	Lower	Upper
97	100		
99	64.3	42.4	88.0
61	48.8	26.0	54.0
63	15.8	8.3	17.3

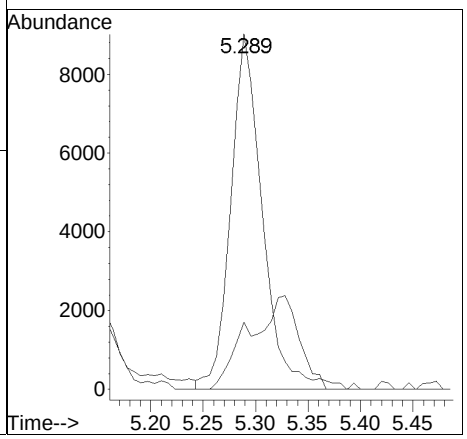


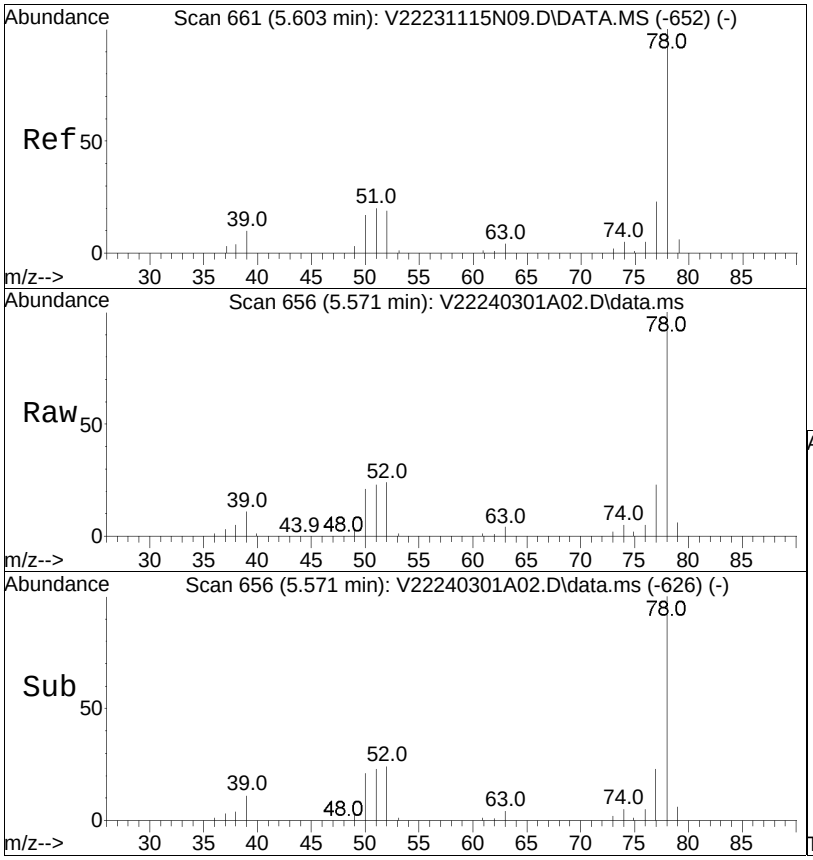


#41
2-Butanone
Concen: 9.88 ug/L
RT: 5.289 min Scan# 613
Delta R.T. -0.006 min
Lab File: V22240301A02.D
Acq: 01 Mar 2024 08:54 am

Tgt Ion: 43 Resp: 19048

Ion	Ratio	Lower	Upper
43	100		
72	11.6	45.8	68.8#

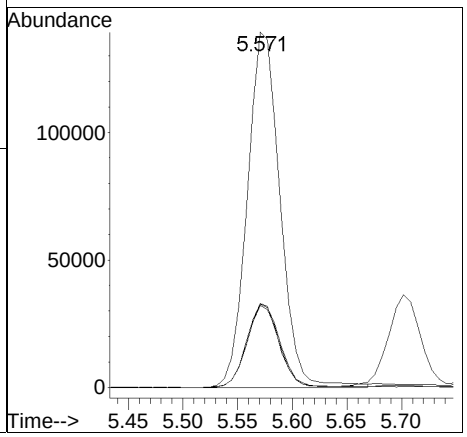


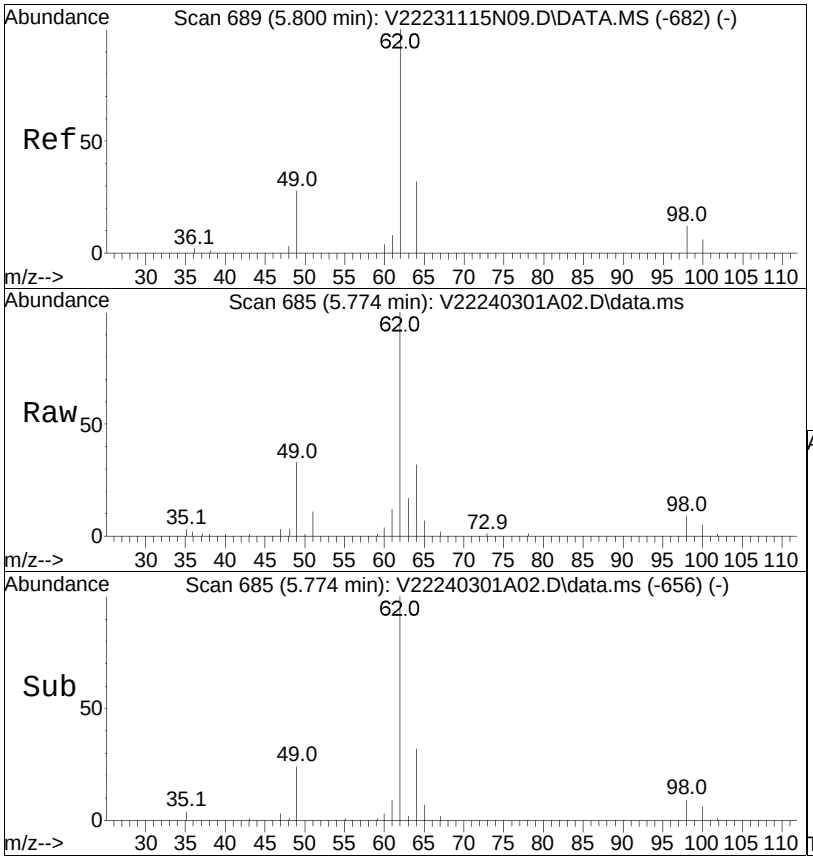


#44
Benzene
Concen: 10.43 ug/L
RT: 5.571 min Scan# 656
Delta R.T. -0.006 min
Lab File: V22240301A02.D
Acq: 01 Mar 2024 08:54 am

Tgt Ion: 78 Resp: 316003

Ion	Ratio	Lower	Upper
78	100		
77	21.7	15.4	32.0
51	20.9	9.8	20.4#
52	21.4	9.2	19.2#

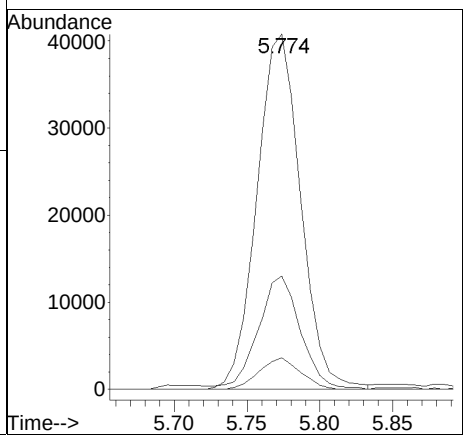


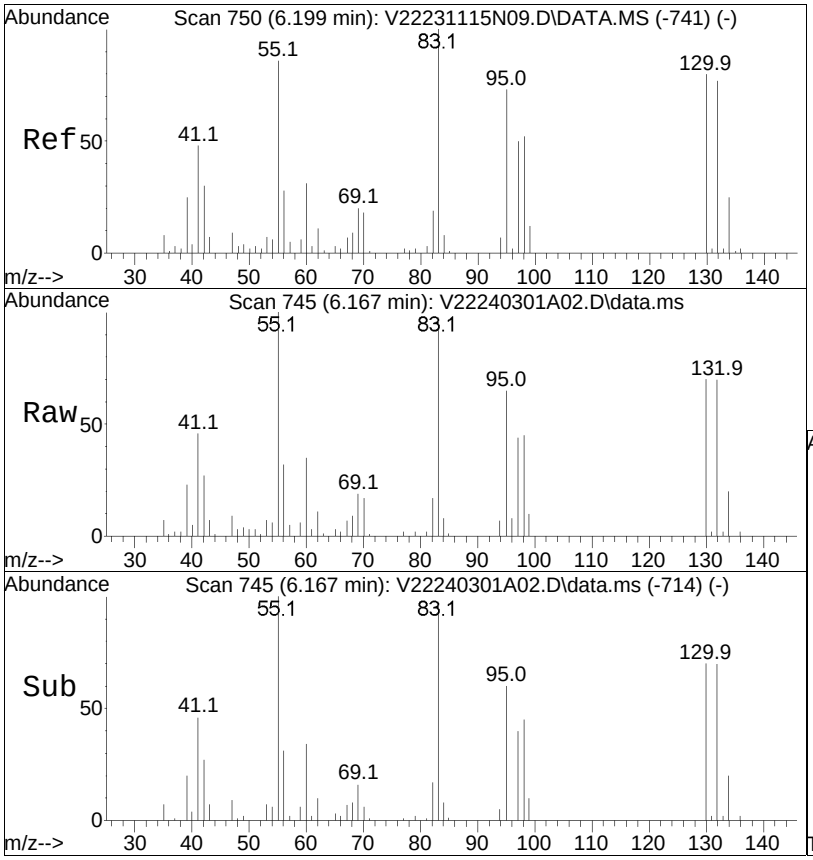


#47
1,2-Dichloroethane
Concen: 10.35 ug/L
RT: 5.774 min Scan# 685
Delta R.T. 0.000 min
Lab File: V22240301A02.D
Acq: 01 Mar 2024 08:54 am

Tgt Ion: 62 Resp: 85219

Ion	Ratio	Lower	Upper
62	100		
64	30.9	12.3	52.3
98	8.4	0.0	30.3

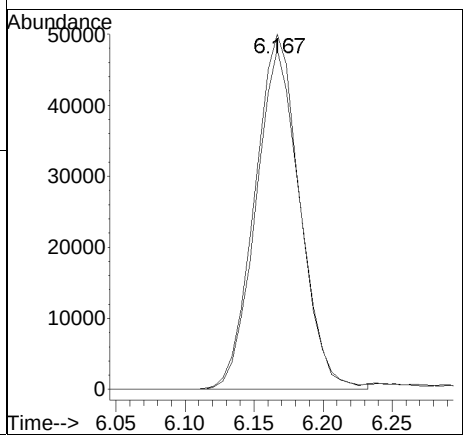


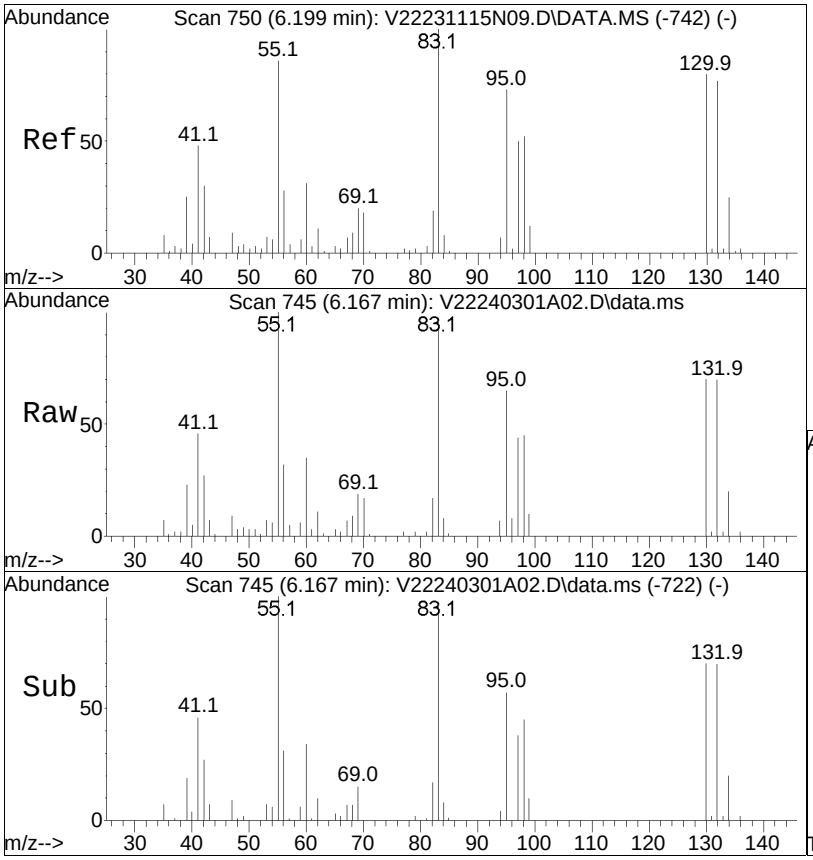


#50
Methyl cyclohexane
Concen: 10.59 ug/L
RT: 6.167 min Scan# 745
Delta R.T. 0.000 min
Lab File: V22240301A02.D
Acq: 01 Mar 2024 08:54 am

Tgt Ion: 83 Resp: 106918

Ion	Ratio	Lower	Upper
83	100		
55	106.2	55.4	83.2#

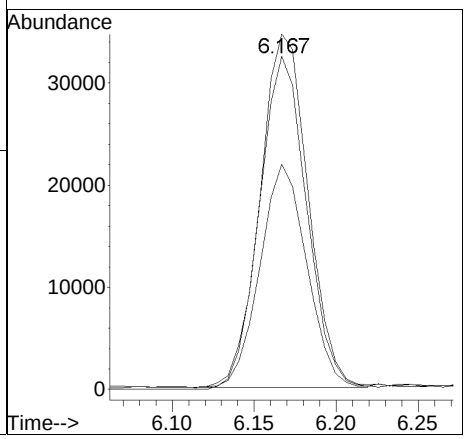


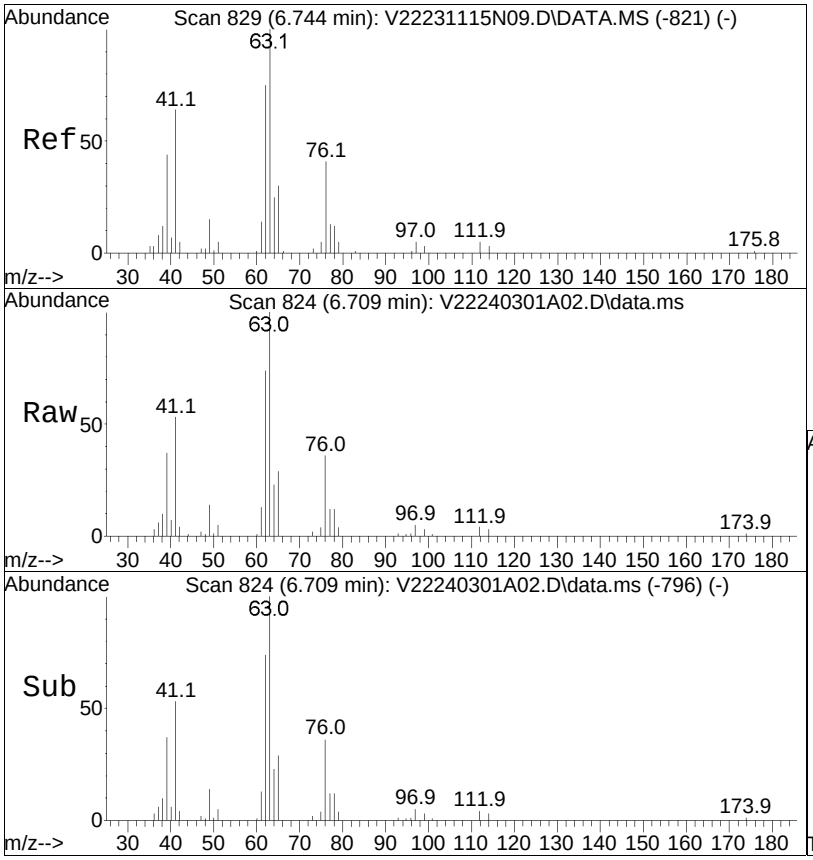


#51
Trichloroethene
Concen: 9.18 ug/L
RT: 6.167 min Scan# 745
Delta R.T. -0.006 min
Lab File: V22240301A02.D
Acq: 01 Mar 2024 08:54 am

Tgt Ion: 95 Resp: 64642

Ion	Ratio	Lower	Upper
95	100		
97	67.4	55.0	82.4
130	110.8	89.2	133.8

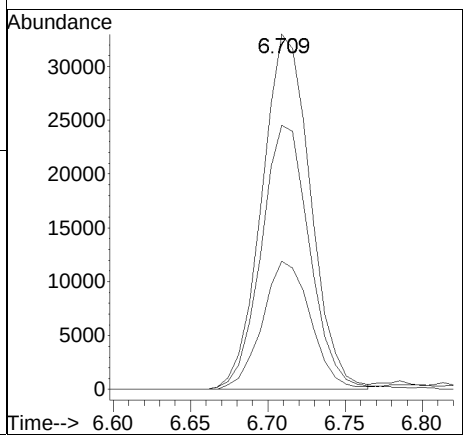


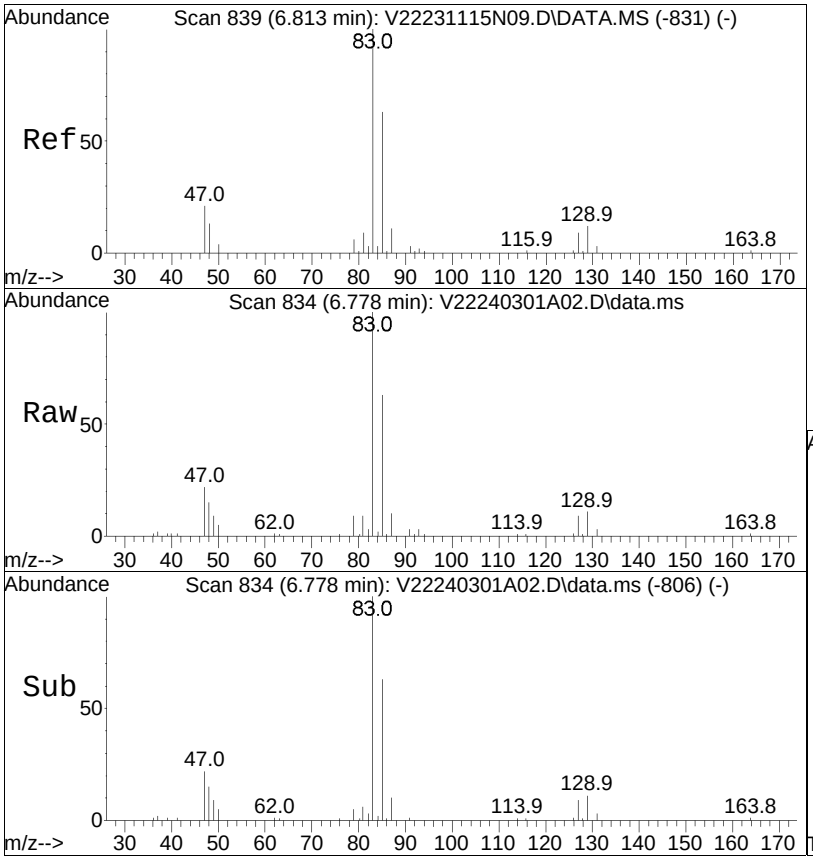


#54
1,2-Dichloropropane
Concen: 10.56 ug/L
RT: 6.709 min Scan# 824
Delta R.T. -0.007 min
Lab File: V22240301A02.D
Acq: 01 Mar 2024 08:54 am

Tgt Ion: 63 Resp: 72237

Ion	Ratio	Lower	Upper
63	100		
62	73.9	56.9	85.3
76	35.9	35.8	53.8

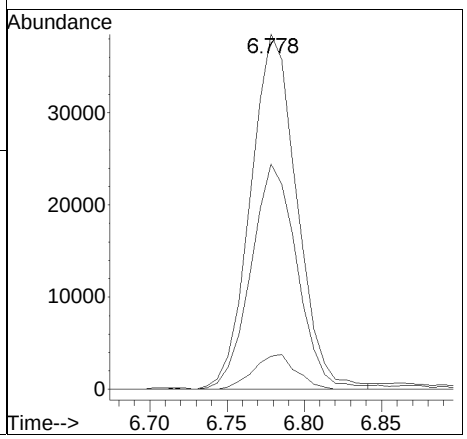


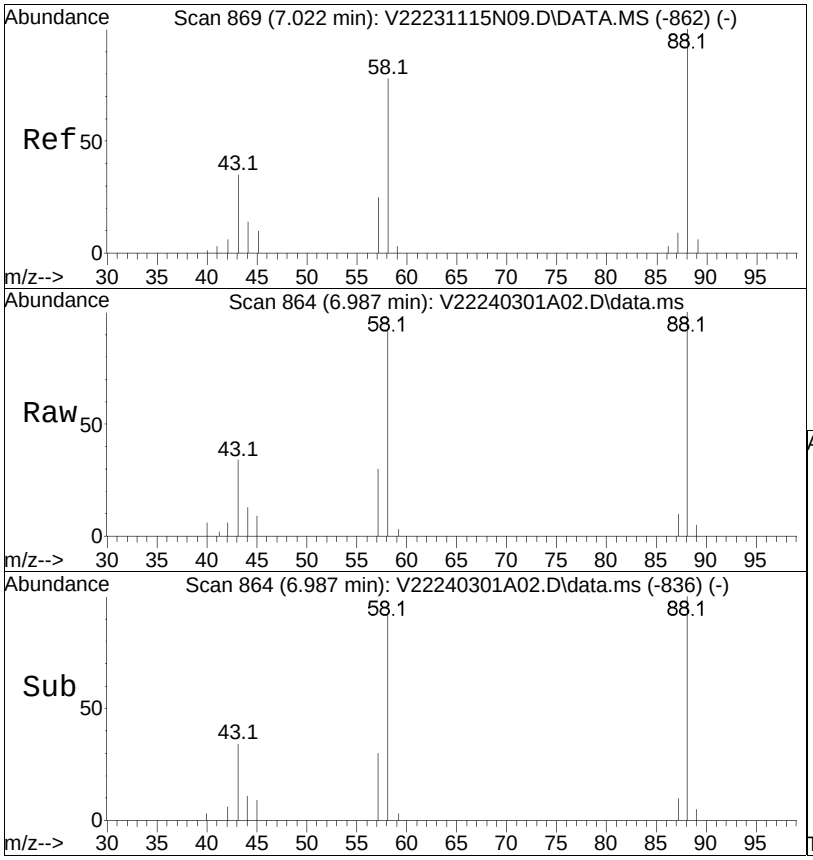


#57
Bromodichloromethane
Concen: 9.08 ug/L
RT: 6.778 min Scan# 834
Delta R.T. -0.007 min
Lab File: V22240301A02.D
Acq: 01 Mar 2024 08:54 am

Tgt Ion: 83 Resp: 80460

Ion	Ratio	Lower	Upper
83	100		
85	63.5	51.6	77.4
127	9.1	7.4	11.0

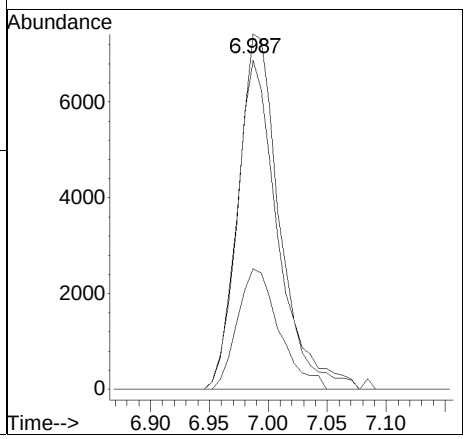


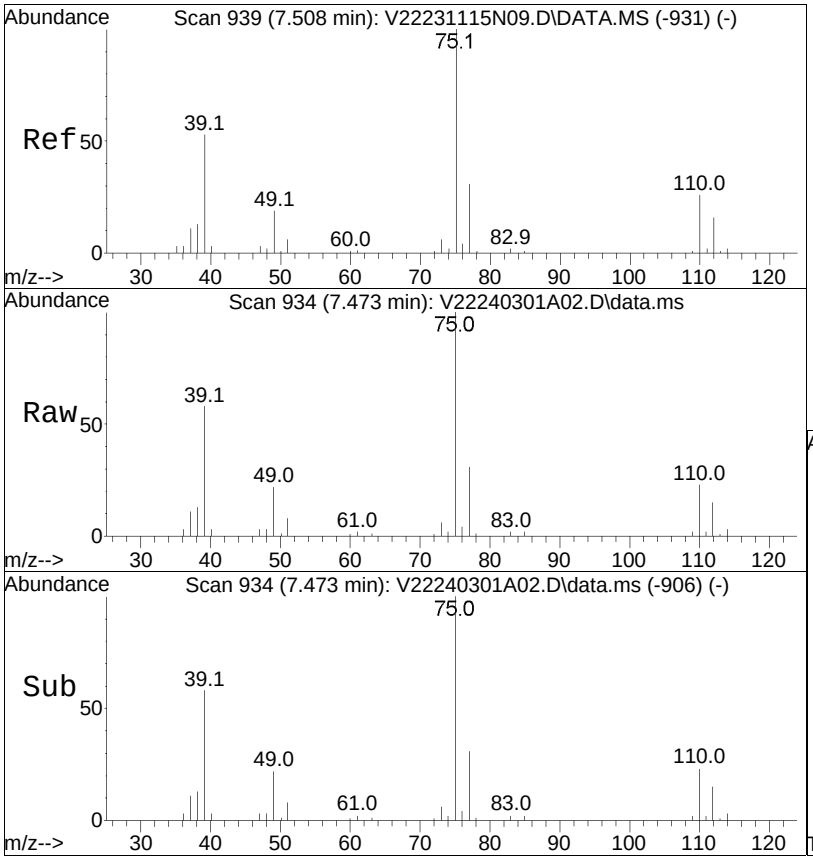


#60
1,4-Dioxane
Concen: 437.77 ug/L
RT: 6.987 min Scan# 864
Delta R.T. -0.007 min
Lab File: V22240301A02.D
Acq: 01 Mar 2024 08:54 am

Tgt Ion: 88 Resp: 18224

Ion	Ratio	Lower	Upper
88	100		
58	90.0	43.3	64.9#
43	34.2	15.1	22.7#

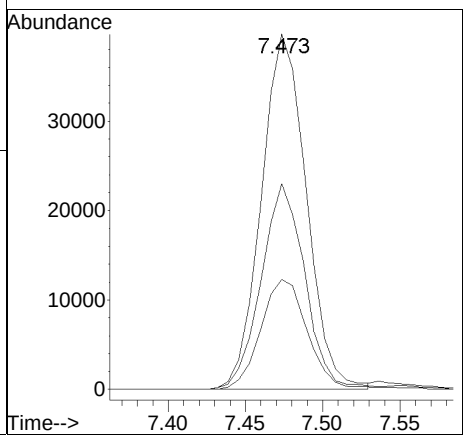


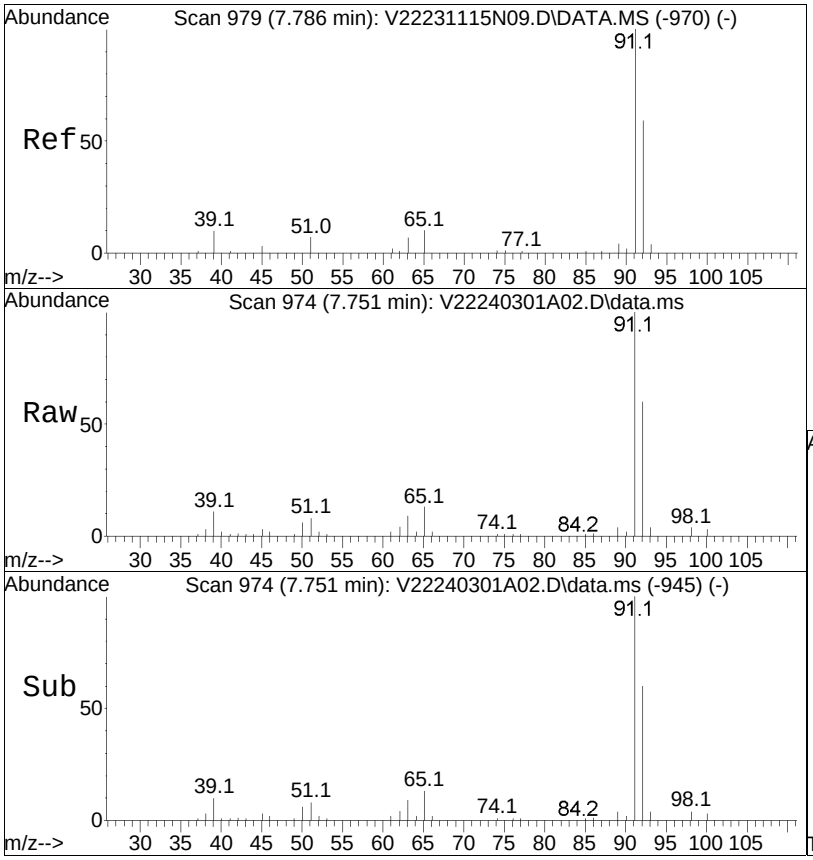


#61
cis-1,3-Dichloropropene
Concen: 8.70 ug/L
RT: 7.473 min Scan# 934
Delta R.T. -0.007 min
Lab File: V22240301A02.D
Acq: 01 Mar 2024 08:54 am

Tgt Ion: 75 Resp: 80497

Ion	Ratio	Lower	Upper
75	100		
77	32.3	25.6	38.4
39	56.2	35.4	53.0#

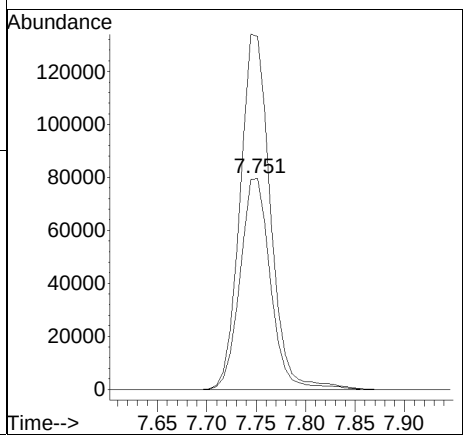


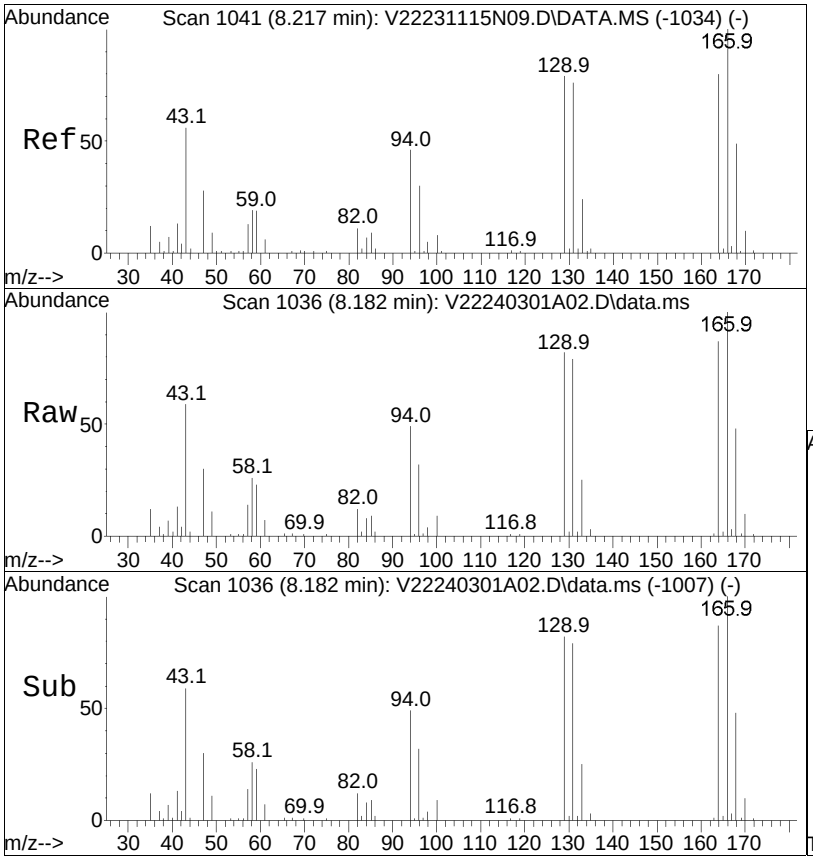


#64
Toluene
Concen: 9.97 ug/L
RT: 7.751 min Scan# 974
Delta R.T. 0.000 min
Lab File: V22240301A02.D
Acq: 01 Mar 2024 08:54 am

Tgt Ion: 92 Resp: 170164

Ion	Ratio	Lower	Upper
92	100		
91	167.6	137.0	205.6

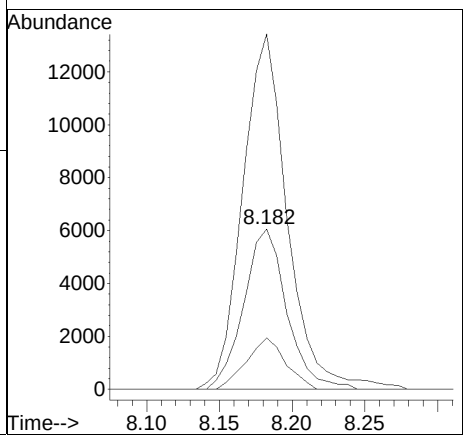


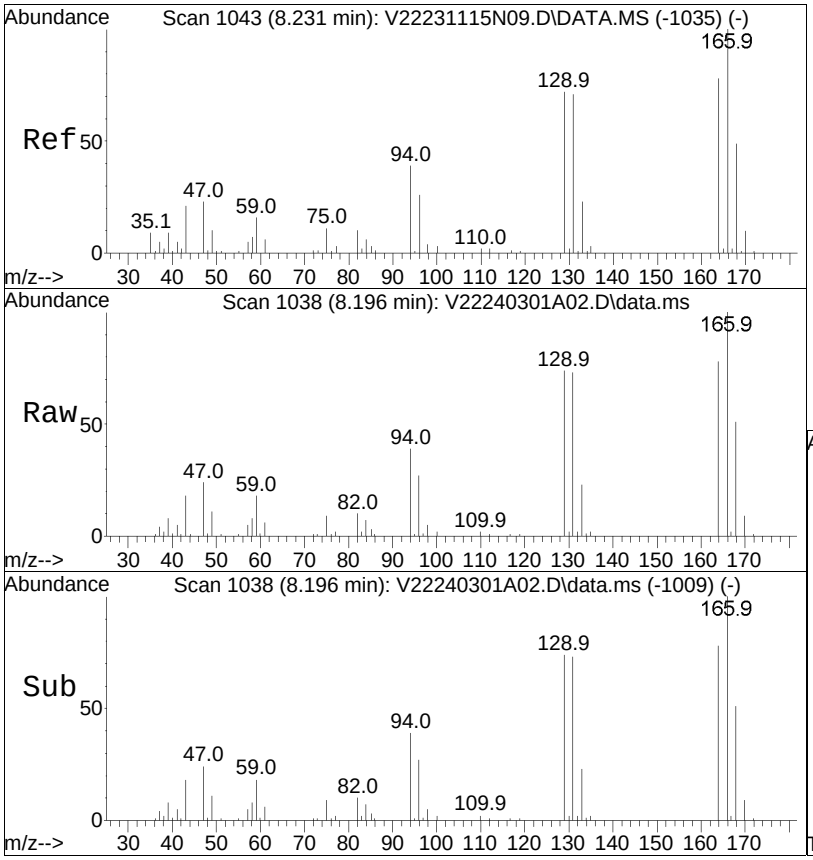


#65
4-Methyl-2-pentanone
Concen: 9.62 ug/L
RT: 8.182 min Scan# 1036
Delta R.T. 0.000 min
Lab File: V22240301A02.D
Acq: 01 Mar 2024 08:54 am

Tgt Ion: 58 Resp: 12521

Ion	Ratio	Lower	Upper
58	100		
100	29.3	36.2	54.4#
43	229.9	181.8	272.8

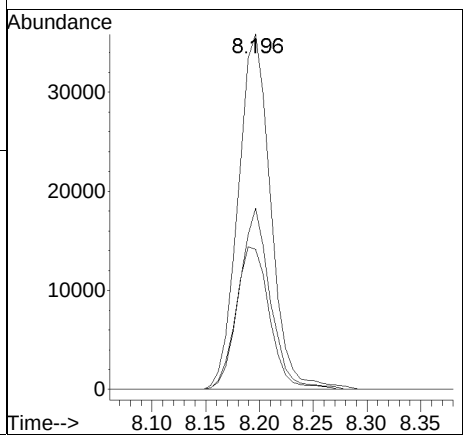


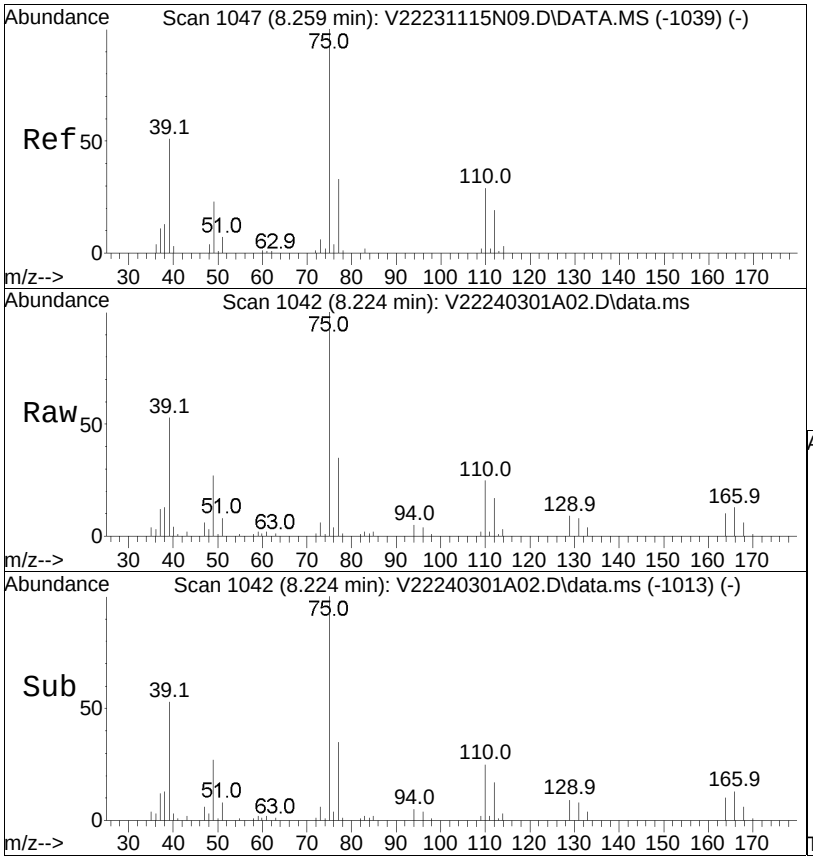


#66
Tetrachloroethene
Concen: 10.50 ug/L
RT: 8.196 min Scan# 1038
Delta R.T. 0.000 min
Lab File: V22240301A02.D
Acq: 01 Mar 2024 08:54 am

Tgt Ion:166 Resp: 75938

Ion	Ratio	Lower	Upper
166	100		
168	48.5	27.8	67.8
94	41.6	16.7	56.7

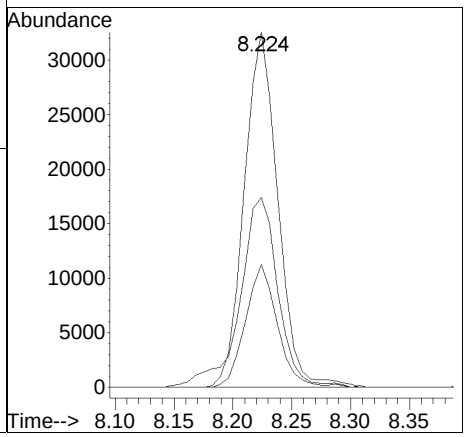


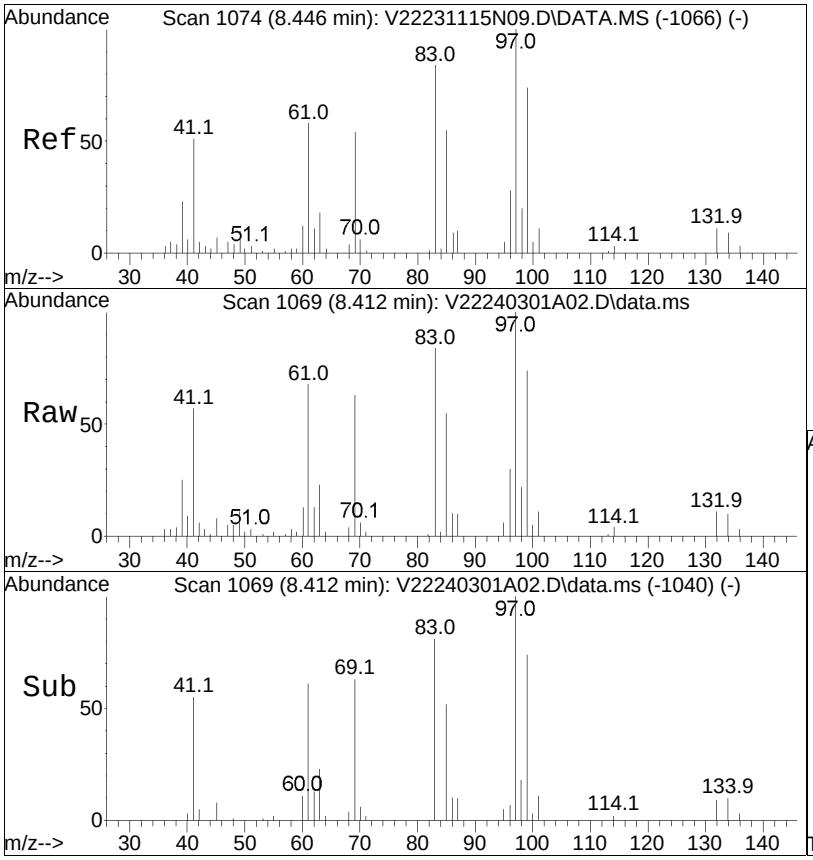


#68
trans-1,3-Dichloropropene
Concen: 7.93 ug/L
RT: 8.224 min Scan# 1042
Delta R.T. 0.000 min
Lab File: V22240301A02.D
Acq: 01 Mar 2024 08:54 am

Tgt Ion: 75 Resp: 64654

Ion	Ratio	Lower	Upper
75	100		
77	33.0	11.9	51.9
39	60.8	27.4	67.4

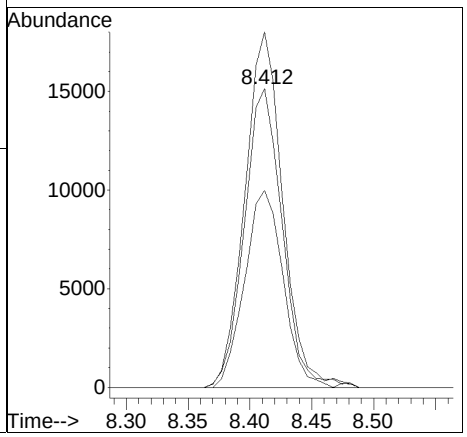


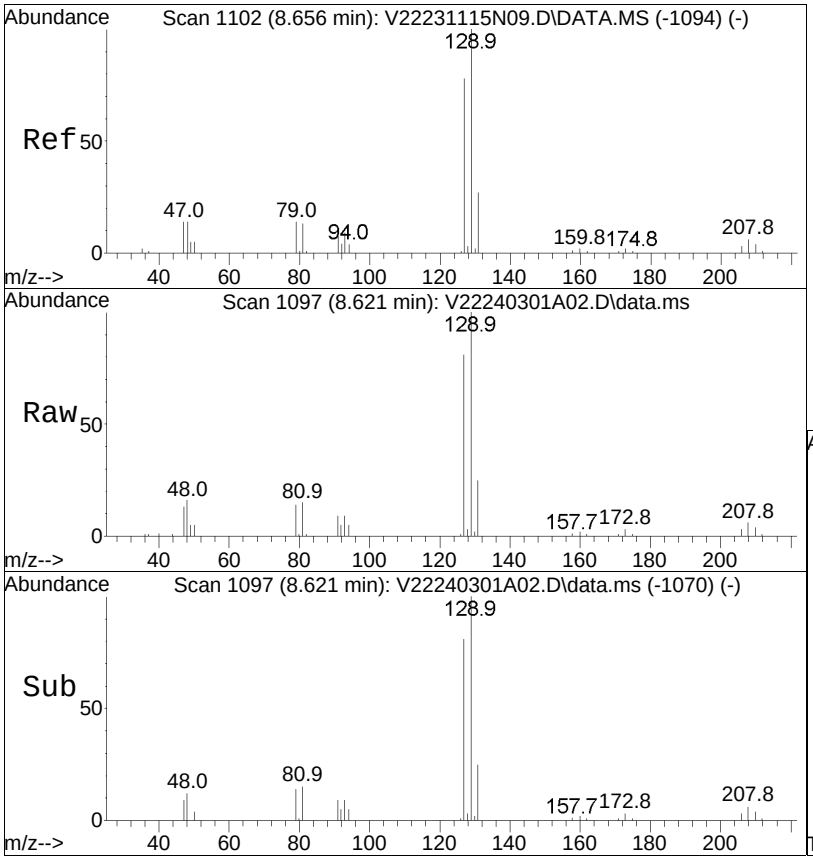


#71
1,1,2-Trichloroethane
Concen: 8.25 ug/L
RT: 8.412 min Scan# 1069
Delta R.T. 0.000 min
Lab File: V22240301A02.D
Acq: 01 Mar 2024 08:54 am

Tgt Ion: 83 Resp: 32319

Ion	Ratio	Lower	Upper
83	100		
97	118.9	103.4	143.4
85	66.9	47.9	87.9

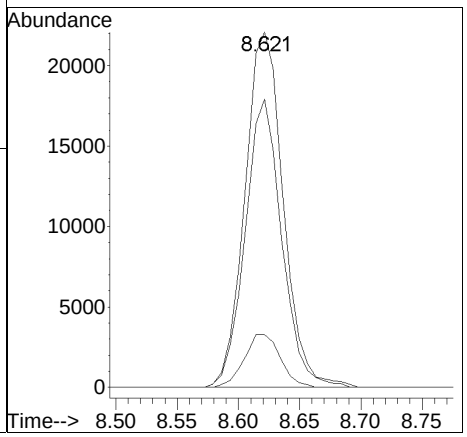


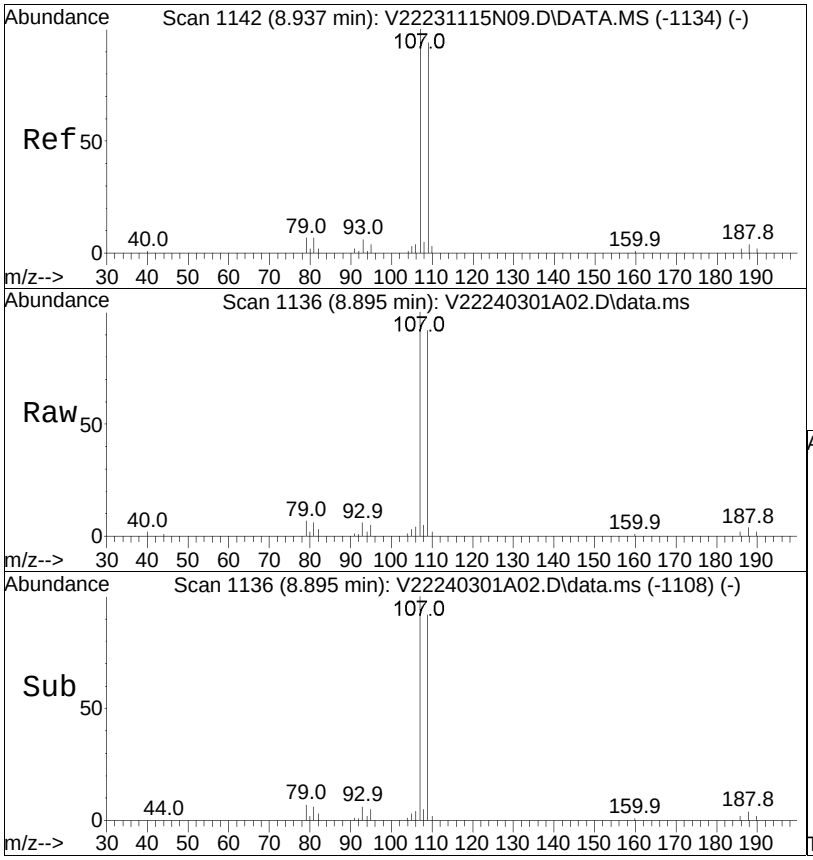


#72
Chlorodibromomethane
Concen: 7.68 ug/L
RT: 8.621 min Scan# 1097
Delta R.T. 0.000 min
Lab File: V22240301A02.D
Acq: 01 Mar 2024 08:54 am

Tgt Ion:129 Resp: 48057

Ion	Ratio	Lower	Upper
129	100		
81	14.1	0.0	33.8
127	77.5	57.1	97.1

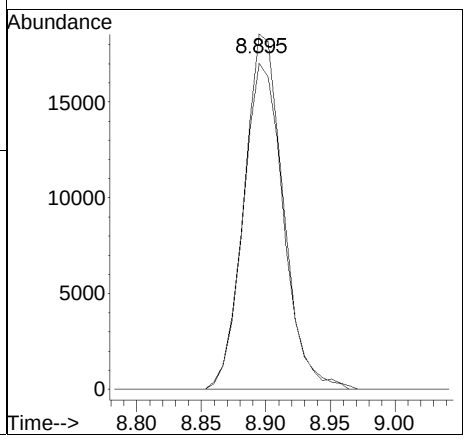


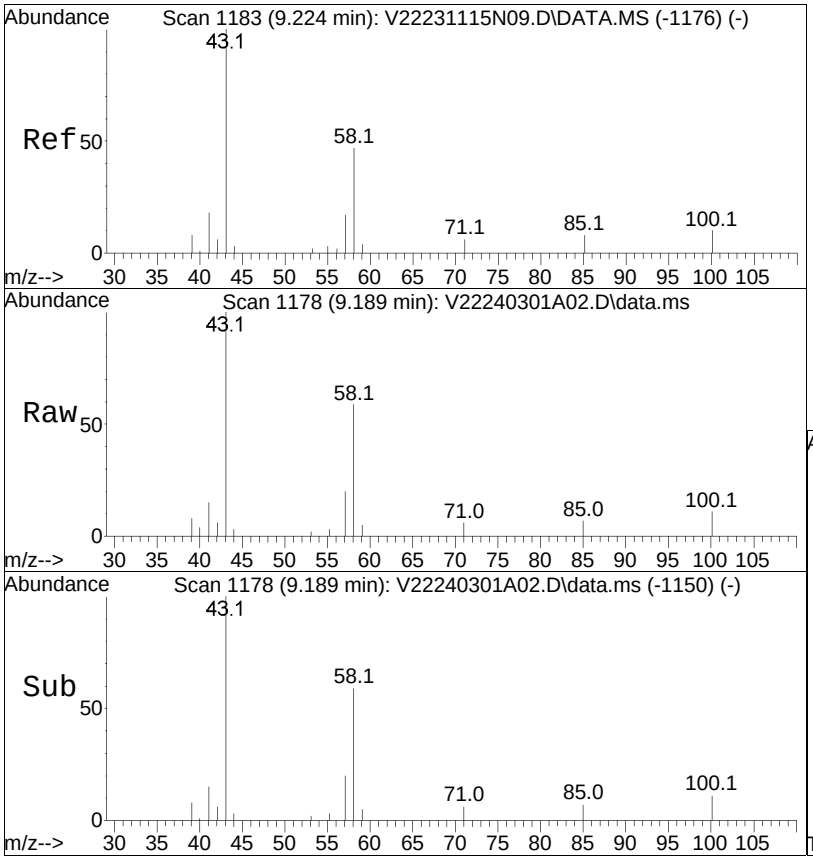


#74
1,2-Dibromoethane
Concen: 8.78 ug/L
RT: 8.895 min Scan# 1136
Delta R.T. -0.007 min
Lab File: V22240301A02.D
Acq: 01 Mar 2024 08:54 am

Tgt Ion:107 Resp: 39407

Ion	Ratio	Lower	Upper
107	100		
109	93.9	75.1	112.7

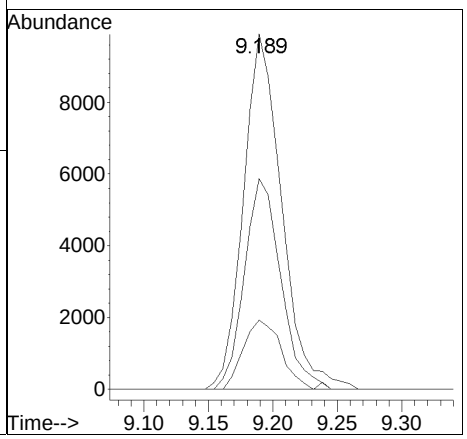


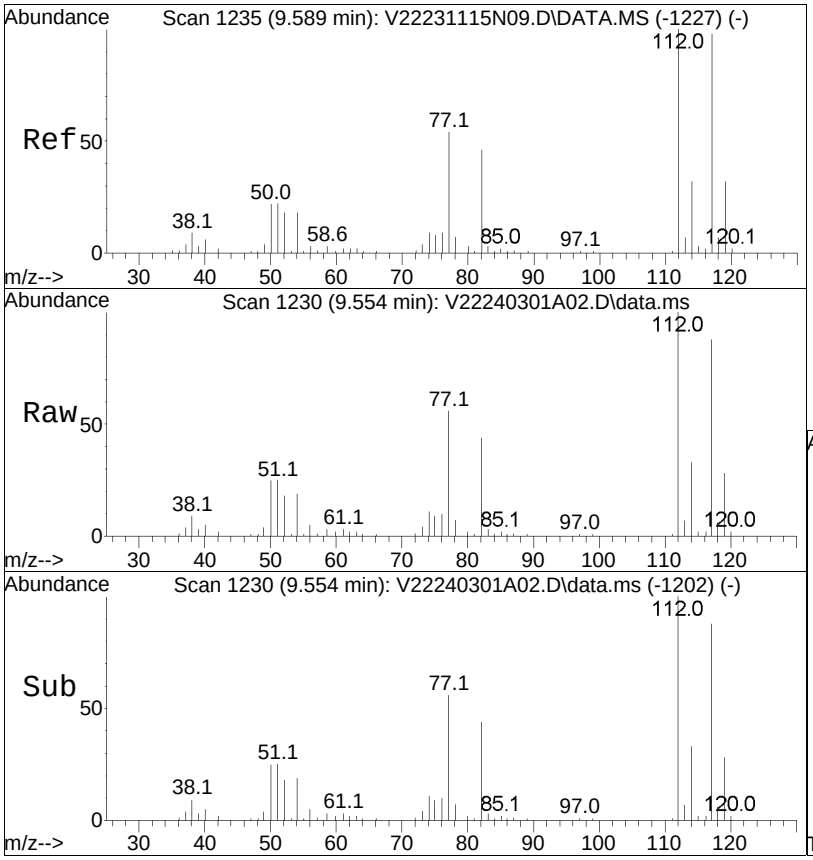


#76
2-Hexanone
Concen: 8.70 ug/L
RT: 9.189 min Scan# 1178
Delta R.T. -0.007 min
Lab File: V22240301A02.D
Acq: 01 Mar 2024 08:54 am

Tgt Ion: 43 Resp: 20421

Ion	Ratio	Lower	Upper
43	100		
58	56.5	47.6	71.4
57	19.3	16.6	24.8

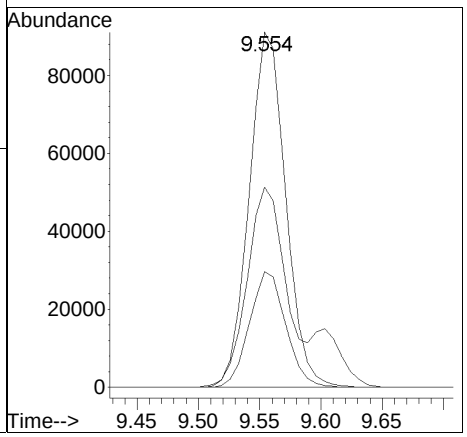


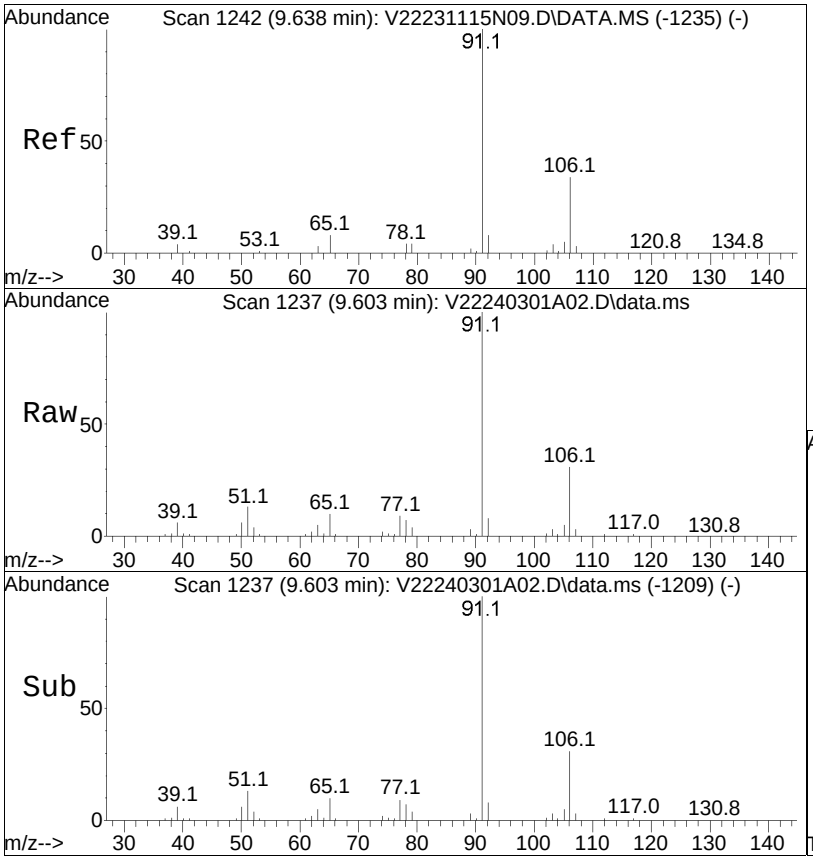


#77
Chlorobenzene
Concen: 9.54 ug/L
RT: 9.554 min Scan# 1230
Delta R.T. -0.007 min
Lab File: V22240301A02.D
Acq: 01 Mar 2024 08:54 am

Tgt Ion:112 Resp: 188703

Ion	Ratio	Lower	Upper
112	100		
77	60.5	55.4	83.0
114	32.4	26.2	39.4

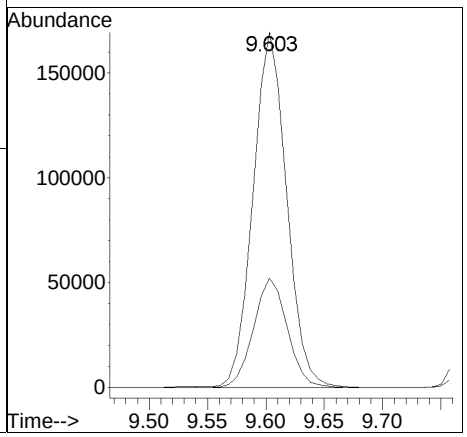


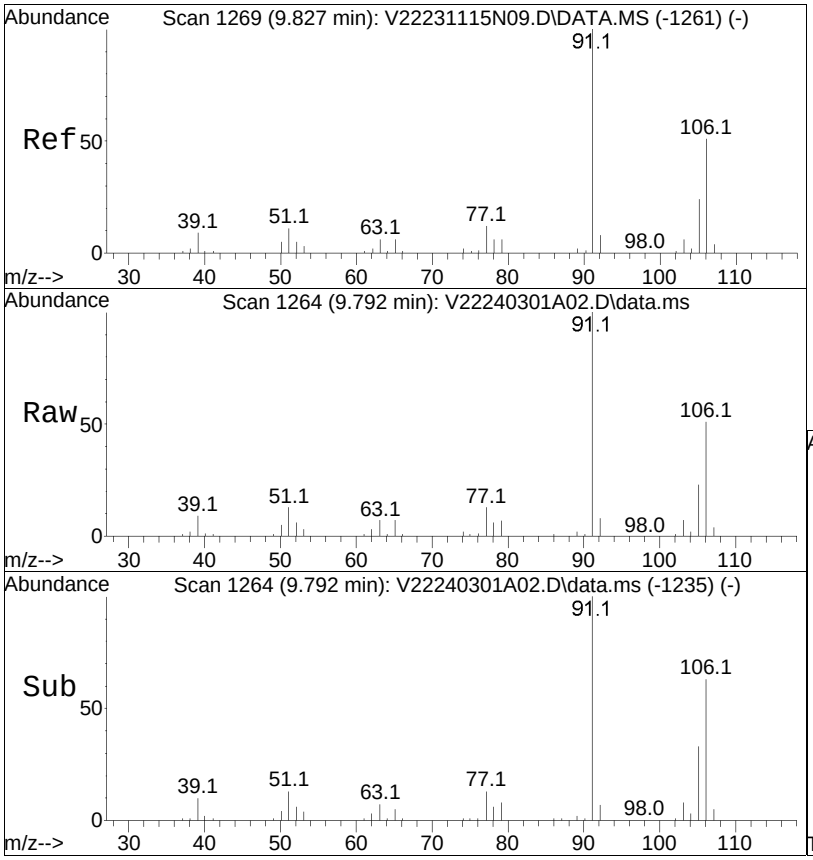


#78
Ethylbenzene
Concen: 10.20 ug/L
RT: 9.603 min Scan# 1237
Delta R.T. -0.007 min
Lab File: V22240301A02.D
Acq: 01 Mar 2024 08:54 am

Tgt Ion: 91 Resp: 338001

Ion	Ratio	Lower	Upper
91	100		
106	30.9	25.8	38.6

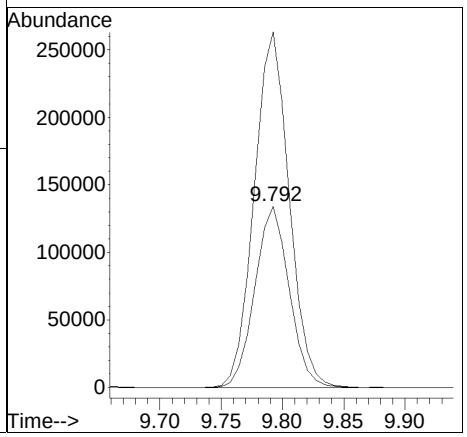


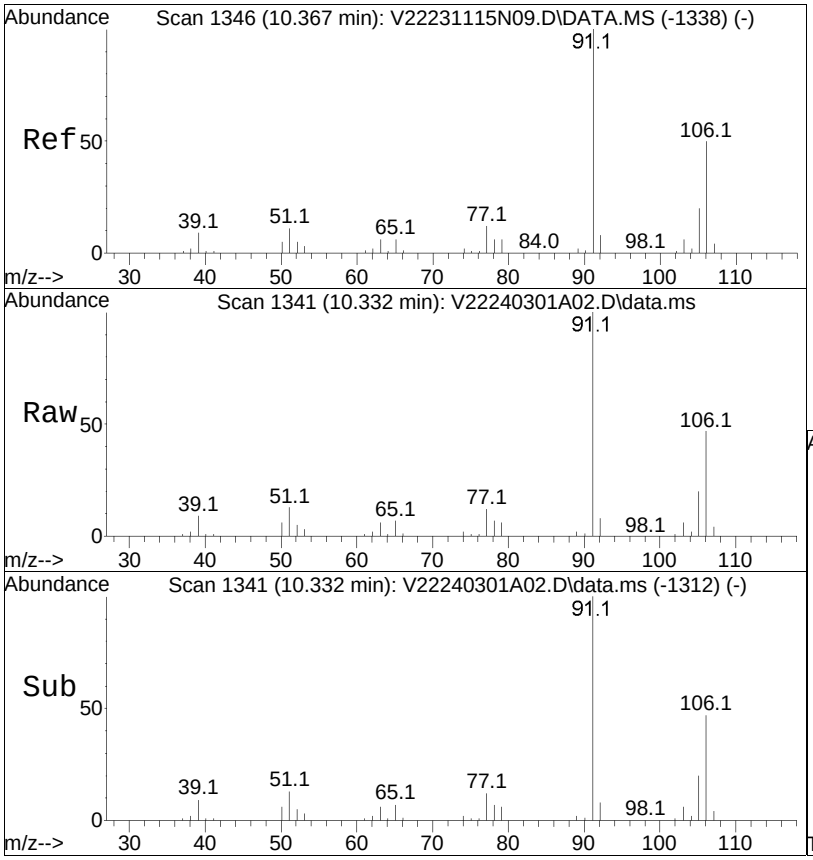


#80
p/m Xylene
Concen: 19.84 ug/L
RT: 9.792 min Scan# 1264
Delta R.T. 0.000 min
Lab File: V22240301A02.D
Acq: 01 Mar 2024 08:54 am

Tgt Ion:106 Resp: 260912

Ion	Ratio	Lower	Upper
106	100		
91	199.8	156.0	234.0

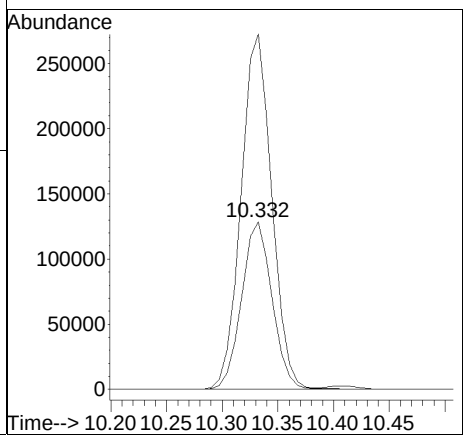


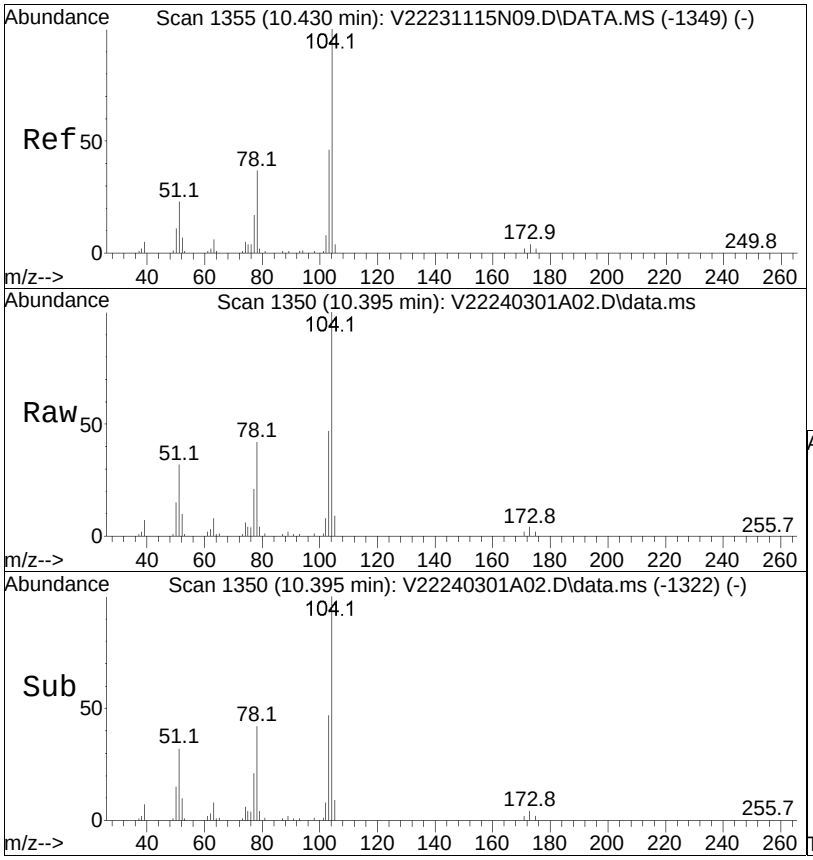


#81
o Xylene
Concen: 19.31 ug/L
RT: 10.332 min Scan# 1341
Delta R.T. 0.000 min
Lab File: V22240301A02.D
Acq: 01 Mar 2024 08:54 am

Tgt Ion:106 Resp: 244661

Ion	Ratio	Lower	Upper
106	100		
91	212.9	164.0	246.0

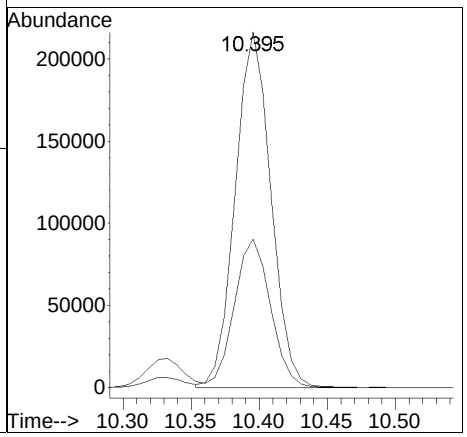


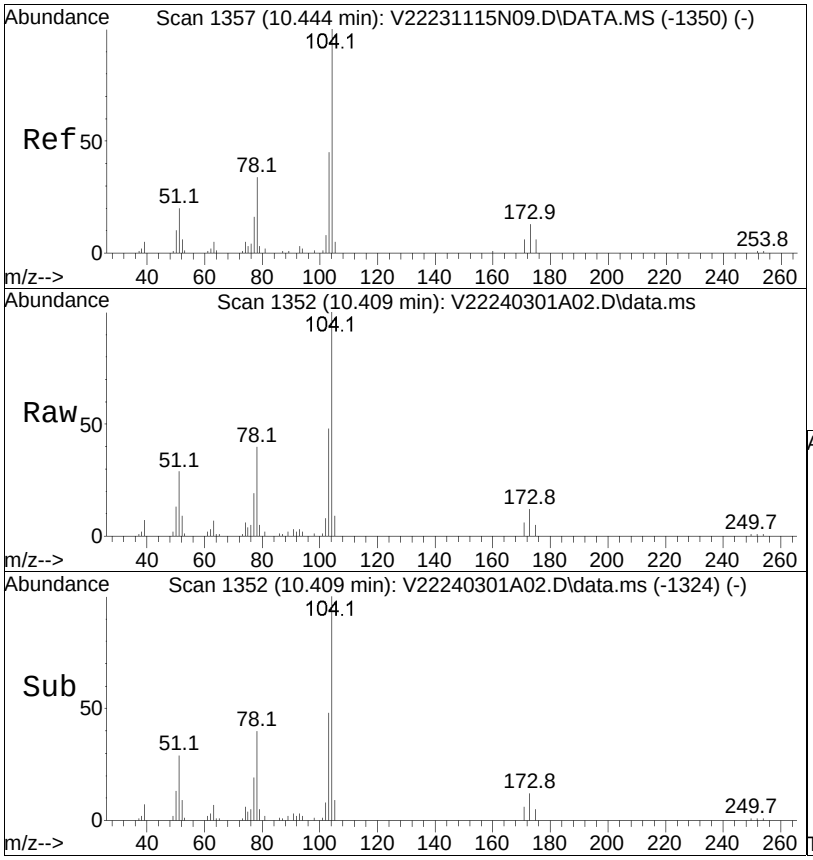


#82
Styrene
Concen: 19.25 ug/L
RT: 10.395 min Scan# 1350
Delta R.T. -0.007 min
Lab File: V22240301A02.D
Acq: 01 Mar 2024 08:54 am

Tgt Ion:104 Resp: 393038

Ion	Ratio	Lower	Upper
104	100		
78	42.2	32.1	48.1

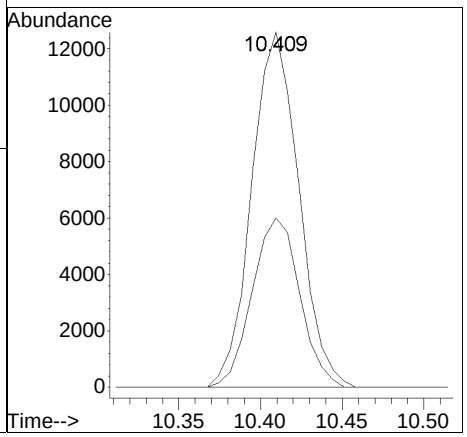


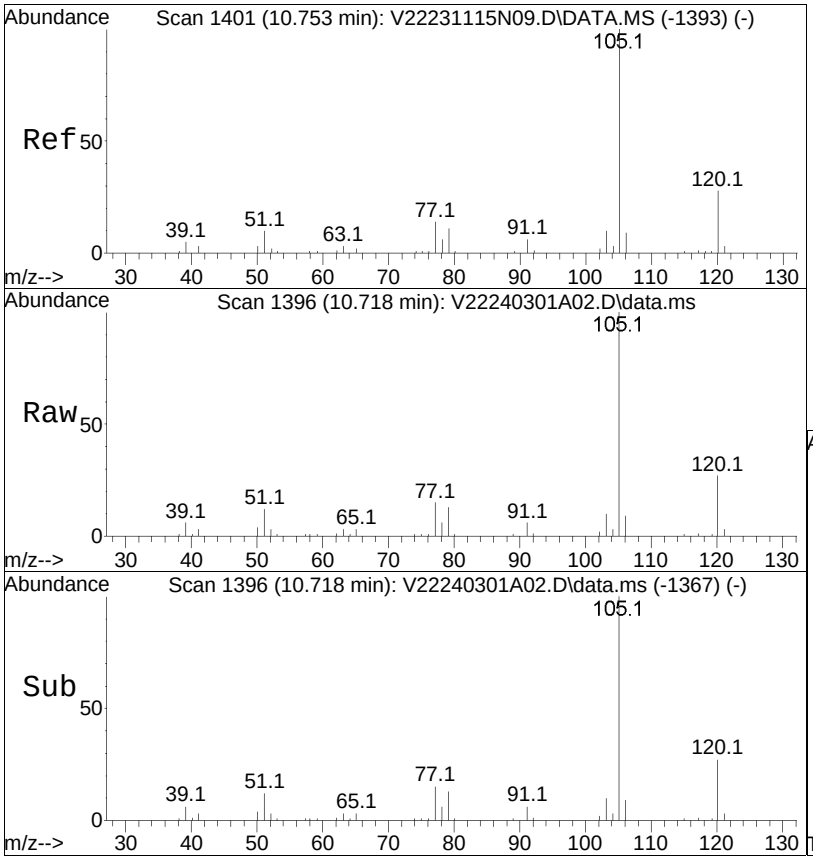


#84
Bromoform
Concen: 7.75 ug/L
RT: 10.409 min Scan# 1352
Delta R.T. -0.007 min
Lab File: V22240301A02.D
Acq: 01 Mar 2024 08:54 am

Tgt Ion:173 Resp: 25217

Ion	Ratio	Lower	Upper
173	100		
175	48.1	29.3	69.3

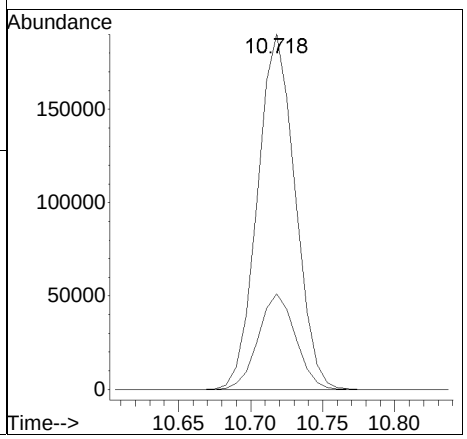


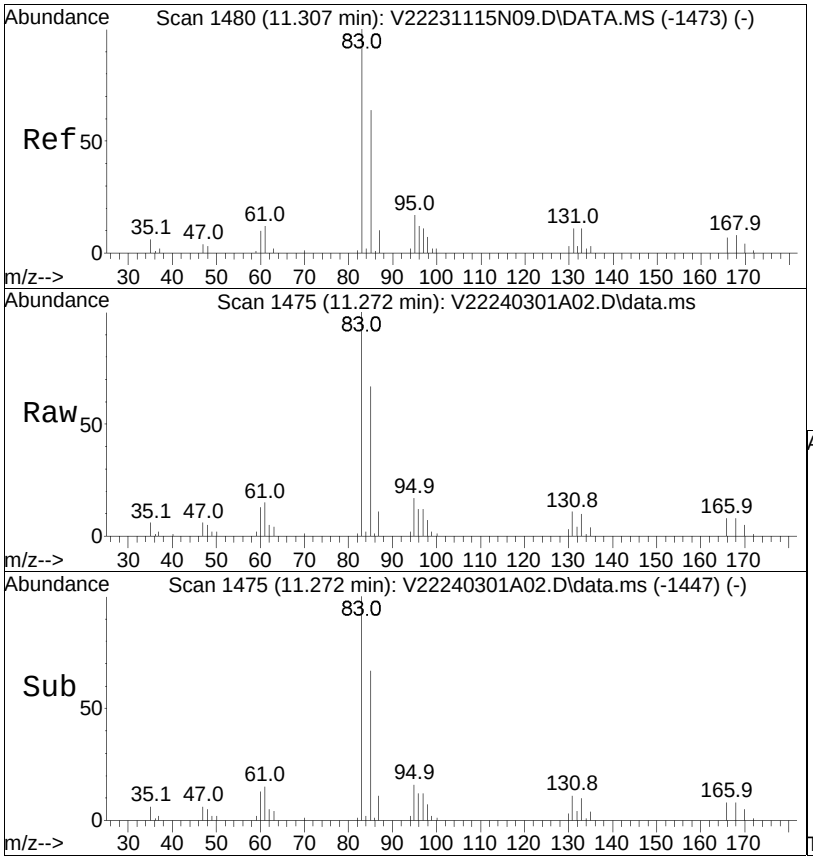


#86
Isopropylbenzene
Concen: 10.20 ug/L
RT: 10.718 min Scan# 1396
Delta R.T. 0.000 min
Lab File: V22240301A02.D
Acq: 01 Mar 2024 08:54 am

Tgt Ion:105 Resp: 344747

Ion	Ratio	Lower	Upper
105	100		
120	26.6	7.7	47.7

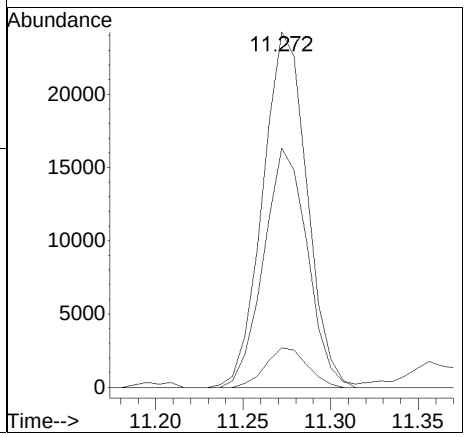


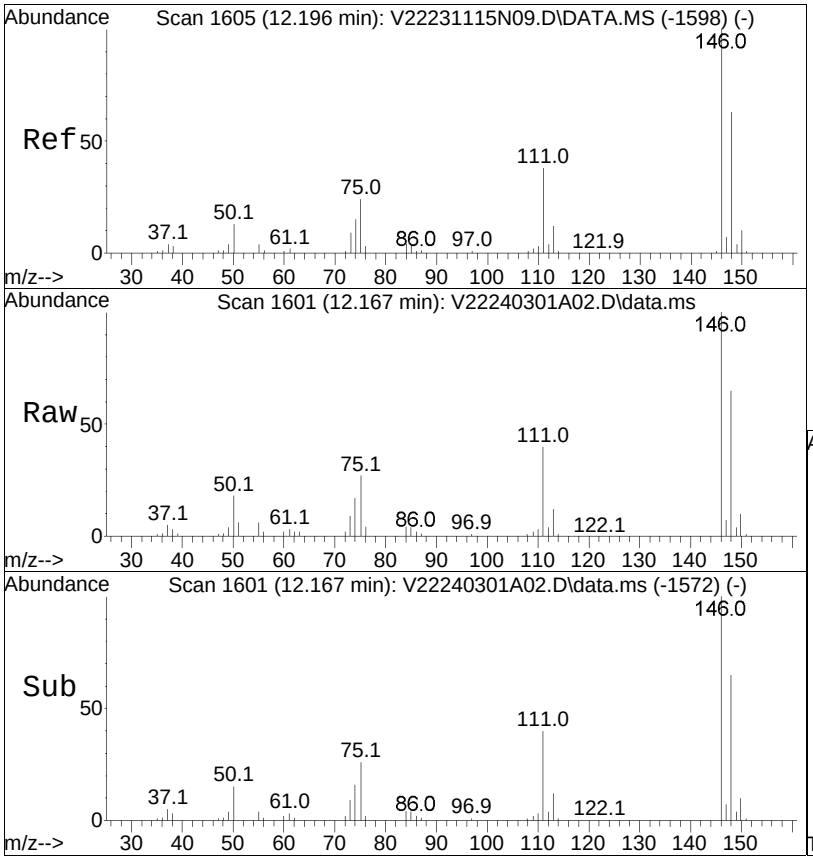


#91
1,1,2,2-Tetrachloroethane
Concen: 9.38 ug/L
RT: 11.272 min Scan# 1475
Delta R.T. -0.007 min
Lab File: V22240301A02.D
Acq: 01 Mar 2024 08:54 am

Tgt Ion: 83 Resp: 42558

Ion	Ratio	Lower	Upper
83	100		
131	10.6	0.0	30.8
85	66.9	45.4	85.4

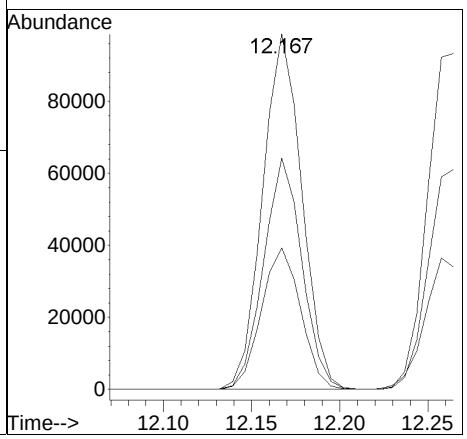


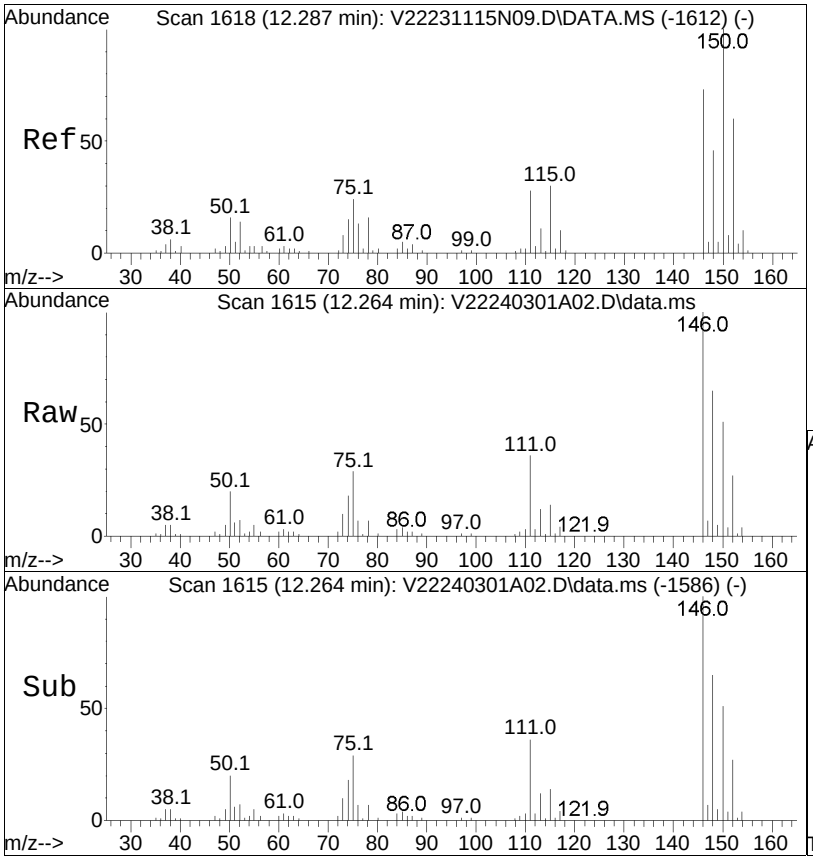


#104
1,3-Dichlorobenzene
Concen: 9.50 ug/L
RT: 12.167 min Scan# 1601
Delta R.T. 0.000 min
Lab File: V22240301A02.D
Acq: 01 Mar 2024 08:54 am

Tgt Ion:146 Resp: 152666

Ion	Ratio	Lower	Upper
146	100		
111	40.0	24.0	49.8
148	63.7	41.8	86.8

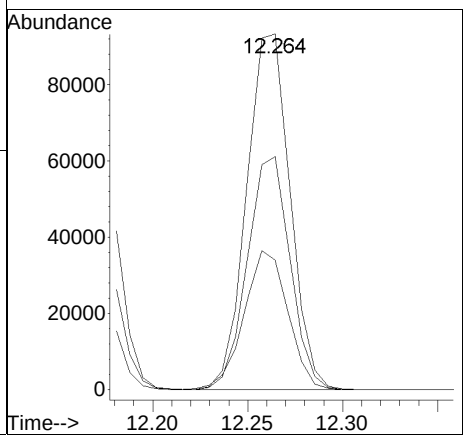


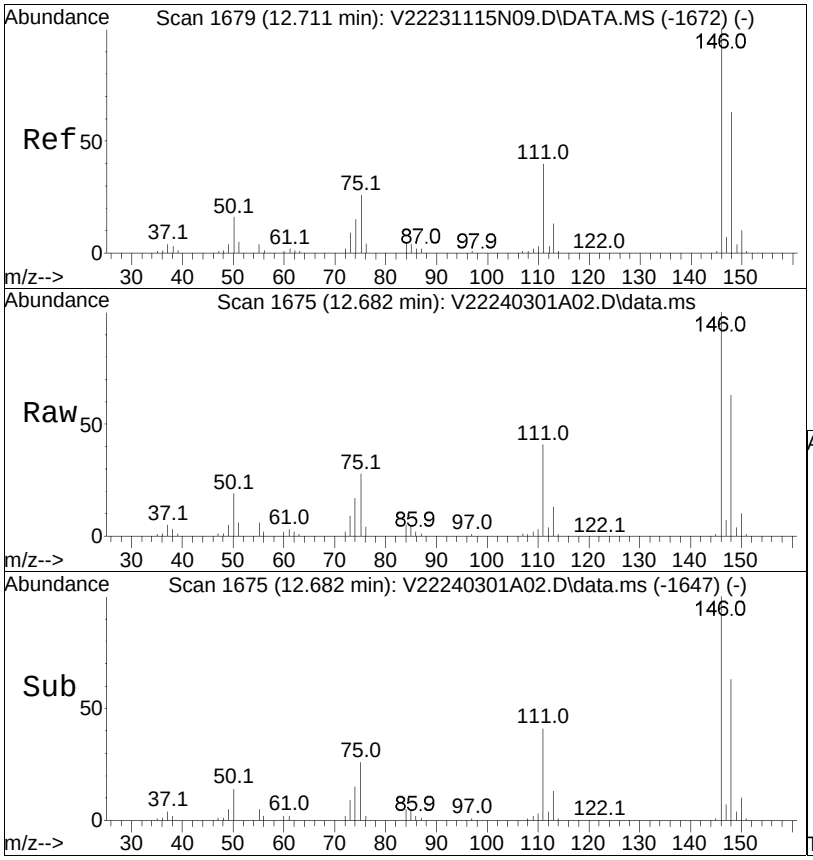


#105
1,4-Dichlorobenzene
Concen: 9.41 ug/L
RT: 12.264 min Scan# 1615
Delta R.T. 0.000 min
Lab File: V22240301A02.D
Acq: 01 Mar 2024 08:54 am

Tgt Ion:146 Resp: 148232

Ion	Ratio	Lower	Upper
146	100		
111	39.5	28.9	43.3
148	64.6	51.4	77.2

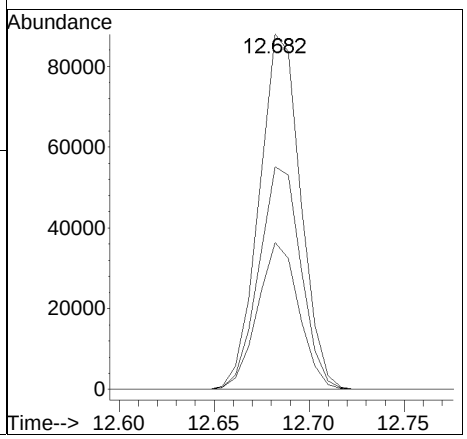


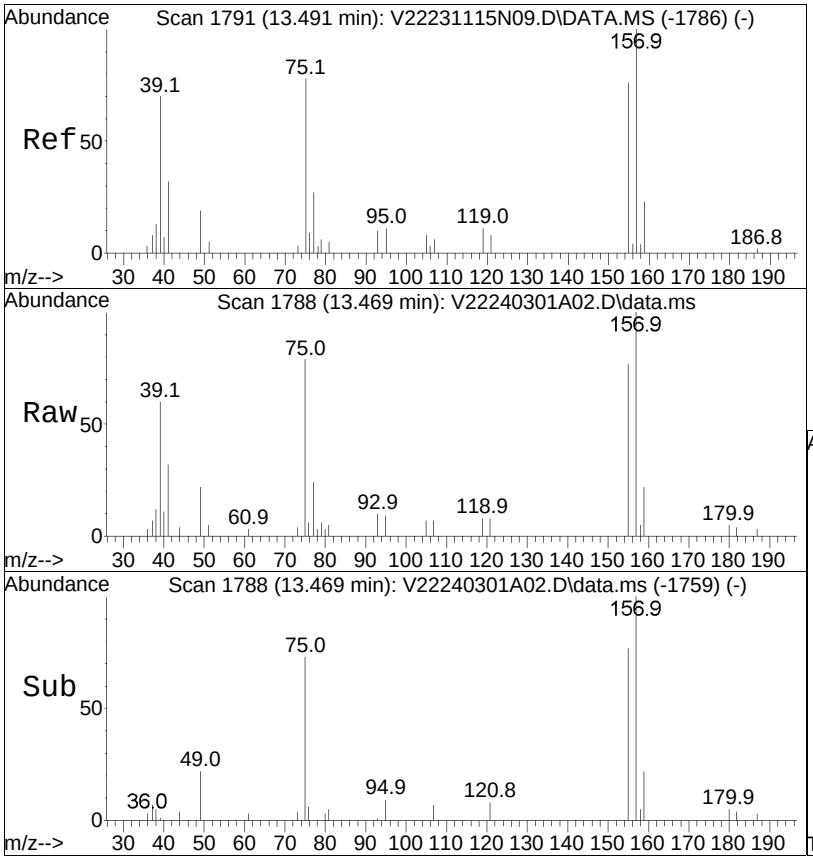


#108
1,2-Dichlorobenzene
Concen: 9.41 ug/L
RT: 12.682 min Scan# 1675
Delta R.T. -0.007 min
Lab File: V22240301A02.D
Acq: 01 Mar 2024 08:54 am

Tgt Ion:146 Resp: 133863

Ion	Ratio	Lower	Upper
146	100		
111	41.1	24.8	51.6
148	63.5	42.2	87.6

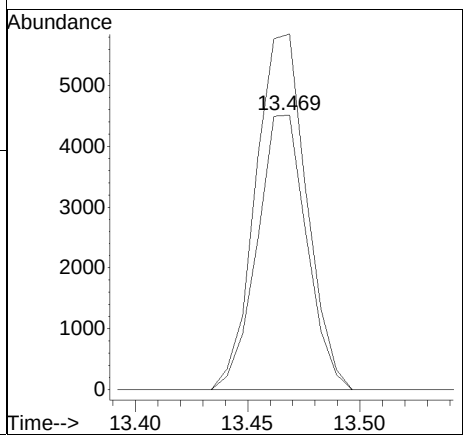


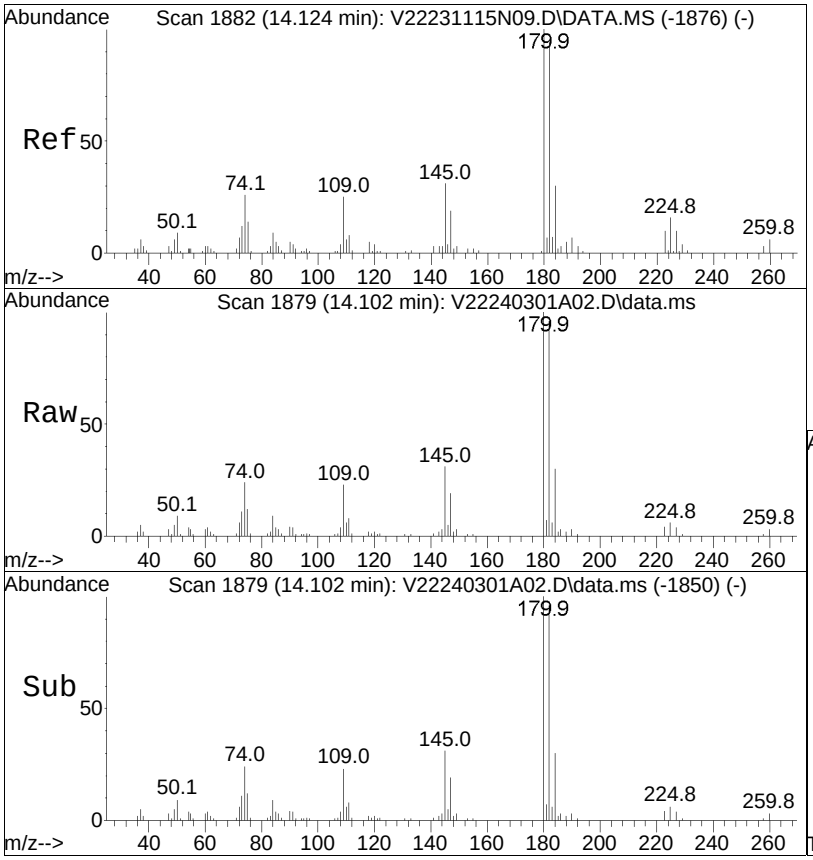


#110
1,2-Dibromo-3-chloropropane
Concen: 7.46 ug/L
RT: 13.469 min Scan# 1788
Delta R.T. 0.000 min
Lab File: V22240301A02.D
Acq: 01 Mar 2024 08:54 am

Tgt Ion:155 Resp: 6896

Ion	Ratio	Lower	Upper
155	100		
157	133.6	102.3	153.5

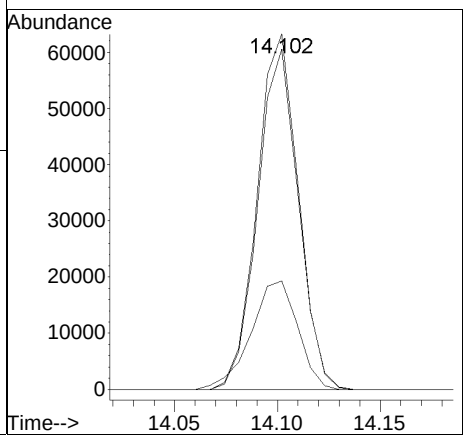


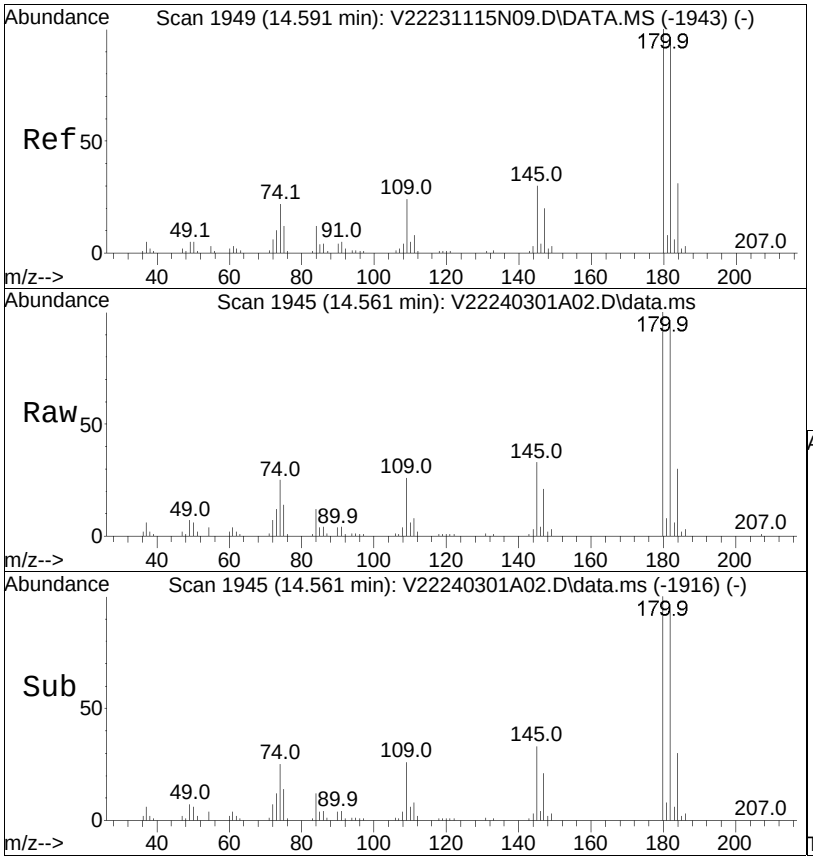


#113
1,2,4-Trichlorobenzene
Concen: 10.47 ug/L
RT: 14.102 min Scan# 1879
Delta R.T. 0.000 min
Lab File: V22240301A02.D
Acq: 01 Mar 2024 08:54 am

Tgt Ion:180 Resp: 88040

Ion	Ratio	Lower	Upper
180	100		
182	94.7	76.6	114.8
145	34.6	25.5	38.3

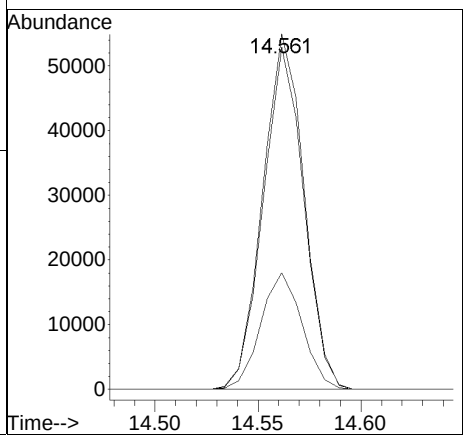




#115
1,2,3-Trichlorobenzene
Concen: 10.59 ug/L
RT: 14.561 min Scan# 1945
Delta R.T. 0.000 min
Lab File: V22240301A02.D
Acq: 01 Mar 2024 08:54 am

Tgt Ion:180 Resp: 76703

Ion	Ratio	Lower	Upper
180	100		
182	94.5	76.0	114.0
145	32.9	23.8	35.8



Quantitation Report (QT Reviewed)

Data Path : K:\VOA122\2024\240301A\
Data File : V22240301A26.D
Acq On : 01 Mar 2024 06:39 pm
Operator : VOA122:MJV
Sample : WG1891888-6,31,10,10,,A1
Misc : WG1891888,ICAL20803
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Mar 04 11:06:47 2024
Quant Method : K:\VOA122\2024\240301A\V122_240122N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jan 24 07:06:18 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA122\2024\240301A\V22240301A01.D
Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	5.990	96	471164	10.000	ug/L	0.00
Standard Area 1 = 514325			Recovery = 91.61%			
62) Chlorobenzene-d5	9.533	117	400854	10.000	ug/L	0.00
Standard Area 1 = 441026			Recovery = 90.89%			
83) 1,4-Dichlorobenzene-d4	12.243	152	205162	10.000	ug/L	0.00
Standard Area 1 = 230262			Recovery = 89.10%			
System Monitoring Compounds						
38) Dibromofluoromethane	5.177	113	169285	10.216	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 102.16%			
46) 1,2-Dichloroethane-d4	5.701	65	172354	11.328	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 113.28%			
63) Toluene-d8	7.689	98	503264	10.067	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.67%			
87) 4-Bromofluorobenzene	11.033	95	189571	10.051	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.51%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.638	85	73953	9.629	ug/L	96
3) Chloromethane	1.821	50	130525	10.975	ug/L	98
4) Vinyl chloride	1.894	62	108516	10.989	ug/L	97
5) Bromomethane	2.202	94	25304	4.255	ug/L	95
6) Chloroethane	2.320	64	57528	10.468	ug/L	98
7) Trichlorofluoromethane	2.464	101	115791	10.942	ug/L	100
10) 1,1-Dichloroethene	2.949	96	70126	10.440	ug/L #	56
11) Carbon disulfide	2.975	76	228869	10.525	ug/L	99
12) Freon-113	2.988	101	66712	10.701	ug/L	97
15) Methylene chloride	3.493	84	77201	9.309	ug/L #	53
17) Acetone	3.532	43	14952	10.656	ug/L	96
18) trans-1,2-Dichloroethene	3.643	96	76043	9.968	ug/L #	71
19) Methyl acetate	3.650	43	29726	9.903	ug/L #	90
21) Methyl tert-butyl ether	3.742	73	113597	9.470	ug/L #	79
25) 1,1-Dichloroethane	4.227	63	173263	11.165	ug/L	94
30) cis-1,2-Dichloroethene	4.738	96	81103	9.497	ug/L #	69
32) Bromochloromethane	4.928	128	37417	9.558	ug/L #	63
33) Cyclohexane	4.941	56	171489	12.477	ug/L #	58
34) Chloroform	5.000	83	127999	9.396	ug/L #	95
36) Carbon tetrachloride	5.144	117	103120	9.855	ug/L	98

Quantitation Report (QT Reviewed)

Data Path : K:\VOA122\2024\240301A\
Data File : V22240301A26.D
Acq On : 01 Mar 2024 06:39 pm
Operator : VOA122:MJV
Sample : WG1891888-6,31,10,10,,A1
Misc : WG1891888,ICAL20803
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Mar 04 11:06:47 2024
Quant Method : K:\VOA122\2024\240301A\V122_240122N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jan 24 07:06:18 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA122\2024\240301A\V22240301A01.D
Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
39) 1,1,1-Trichloroethane	5.210	97	120860	10.069	ug/L		93
41) 2-Butanone	5.295	43	15914	9.057	ug/L	#	48
44) Benzene	5.577	78	275001	9.960	ug/L	#	90
47) 1,2-Dichloroethane	5.774	62	75878	10.114	ug/L		98
50) Methyl cyclohexane	6.167	83	84069	9.140	ug/L	#	46
51) Trichloroethene	6.167	95	57077	8.894	ug/L		98
54) 1,2-Dichloropropane	6.716	63	64317	10.315	ug/L		93
57) Bromodichloromethane	6.785	83	70249	8.699	ug/L		99
60) 1,4-Dioxane	6.994	88	15104	398.209	ug/L	#	44
61) cis-1,3-Dichloropropene	7.473	75	69438	8.233	ug/L	#	88
64) Toluene	7.751	92	145679	9.413	ug/L		95
65) 4-Methyl-2-pentanone	8.182	58	10860	9.201	ug/L	#	86
66) Tetrachloroethene	8.196	166	65402	9.972	ug/L		96
68) trans-1,3-Dichloropropene	8.224	75	55931	7.563	ug/L		88
71) 1,1,2-Trichloroethane	8.412	83	28312	7.974	ug/L		96
72) Chlorodibromomethane	8.621	129	42118	7.422	ug/L		98
74) 1,2-Dibromoethane	8.902	107	34563	8.495	ug/L		99
76) 2-Hexanone	9.189	43	19057	8.952	ug/L		95
77) Chlorobenzene	9.561	112	160070	8.926	ug/L		92
78) Ethylbenzene	9.603	91	286135	9.522	ug/L		98
80) p/m Xylene	9.792	106	220931	18.532	ug/L		96
81) o Xylene	10.332	106	208093	18.119	ug/L		95
82) Styrene	10.395	104	329927	17.829	ug/L		97
84) Bromoform	10.409	173	21906	7.346	ug/L		97
86) Isopropylbenzene	10.718	105	291063	9.392	ug/L		98
91) 1,1,2,2-Tetrachloroethane	11.272	83	38186	9.177	ug/L		100
104) 1,3-Dichlorobenzene	12.167	146	127962	8.686	ug/L		98
105) 1,4-Dichlorobenzene	12.264	146	128120	8.868	ug/L		98
108) 1,2-Dichlorobenzene	12.682	146	113289	8.683	ug/L		97
110) 1,2-Dibromo-3-chloropr...	13.461	155	5959	7.028	ug/L		98
113) 1,2,4-Trichlorobenzene	14.102	180	73482	9.526	ug/L		98
115) 1,2,3-Trichlorobenzene	14.561	180	64088	9.654	ug/L		97

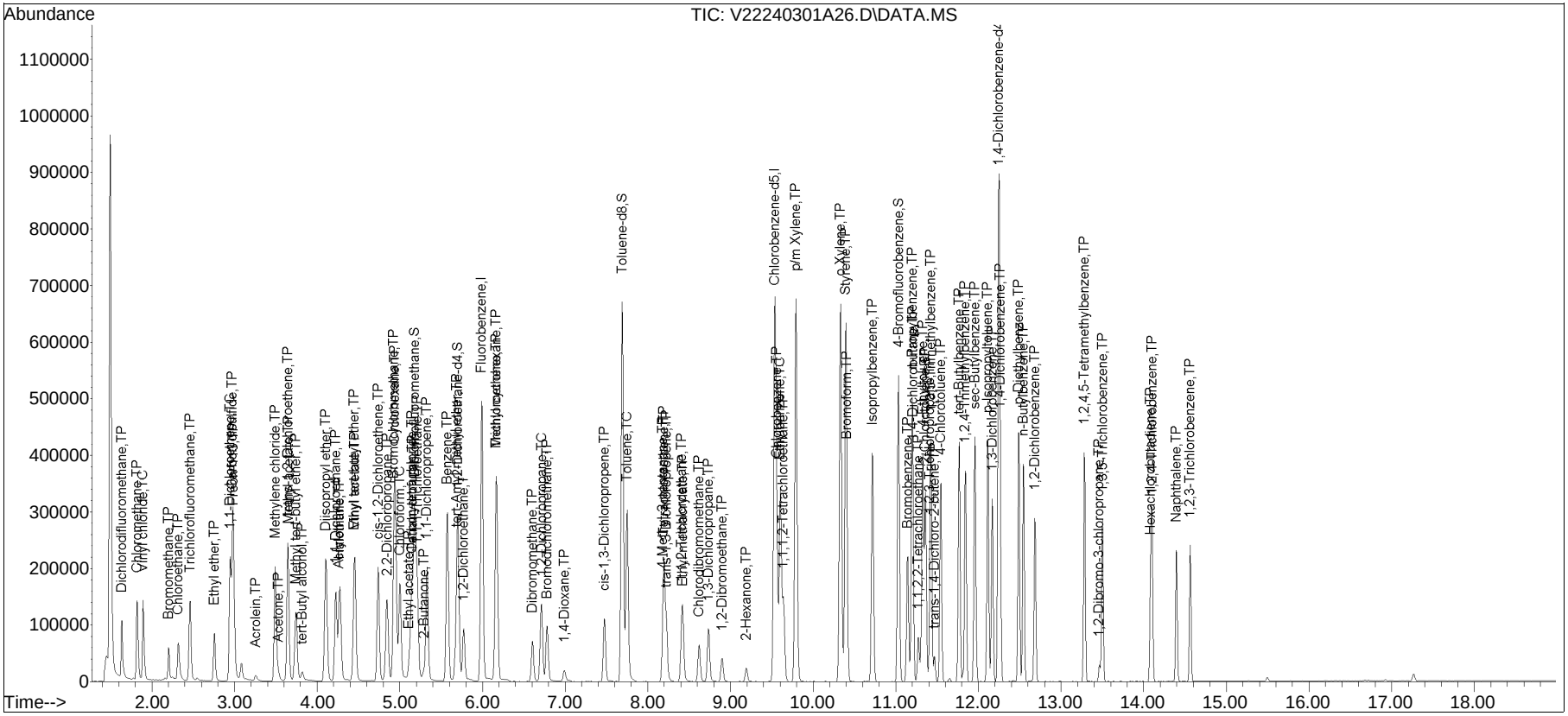
(#) = qualifier out of range (m) = manual integration (+) = signals summed

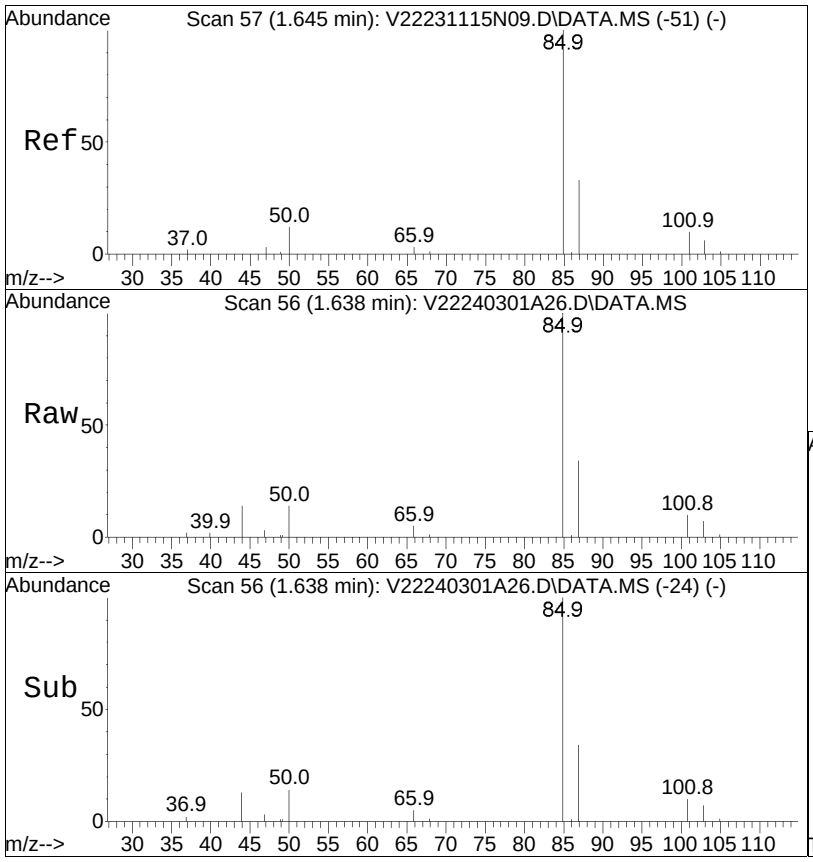
Quantitation Report (QT Reviewed)

Data Path : K:\VOA122\2024\240301A\
Data File : V22240301A26.D
Acq On : 01 Mar 2024 06:39 pm
Operator : VOA122:MJV
Sample : WG1891888-6,31,10,10,,A1
Misc : WG1891888,ICAL20803
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Mar 04 11:06:47 2024
Quant Method : K:\VOA122\2024\240301A\V122_240122N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jan 24 07:06:18 2024
Response via : Initial Calibration

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

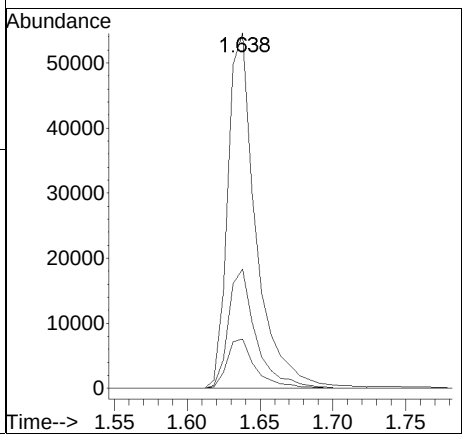


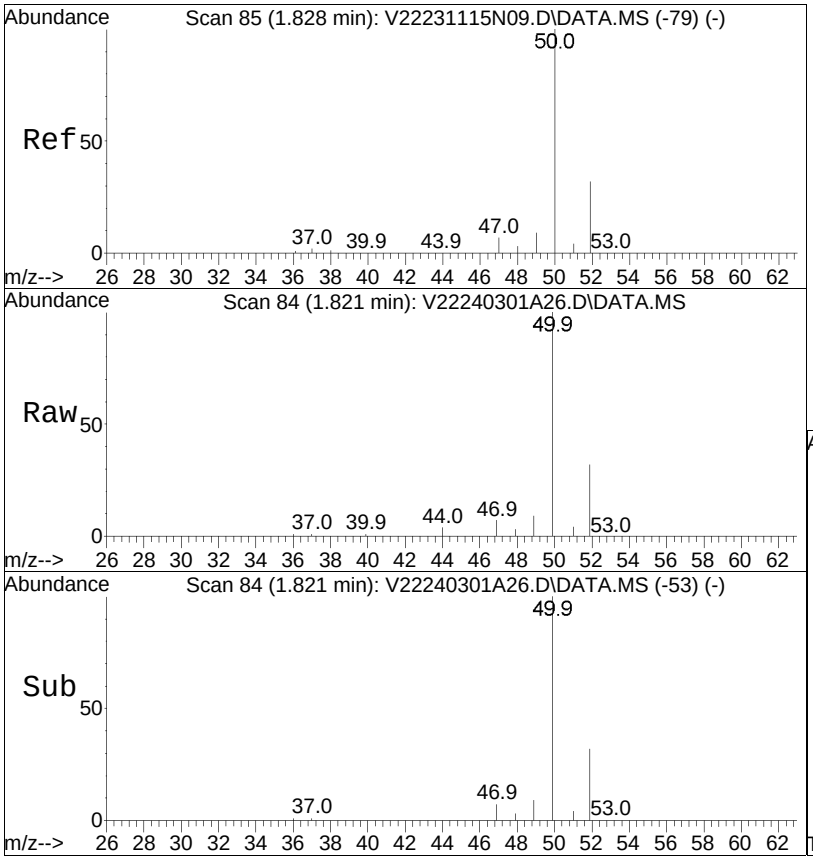


#2
Dichlorodifluoromethane
Concen: 9.63 ug/L
RT: 1.638 min Scan# 56
Delta R.T. 0.007 min
Lab File: V22240301A26.D
Acq: 01 Mar 2024 06:39 pm

Tgt Ion: 85 Resp: 73953

Ion	Ratio	Lower	Upper
85	100		
87	32.8	20.7	42.9
50	14.1	6.8	14.2

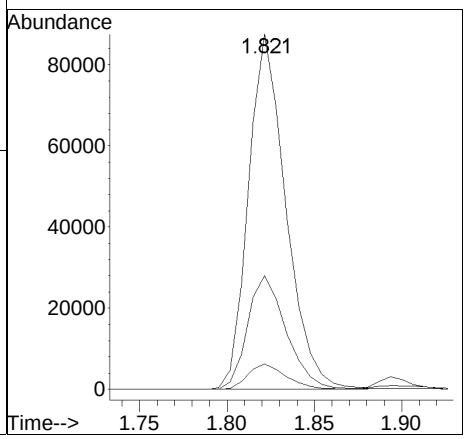


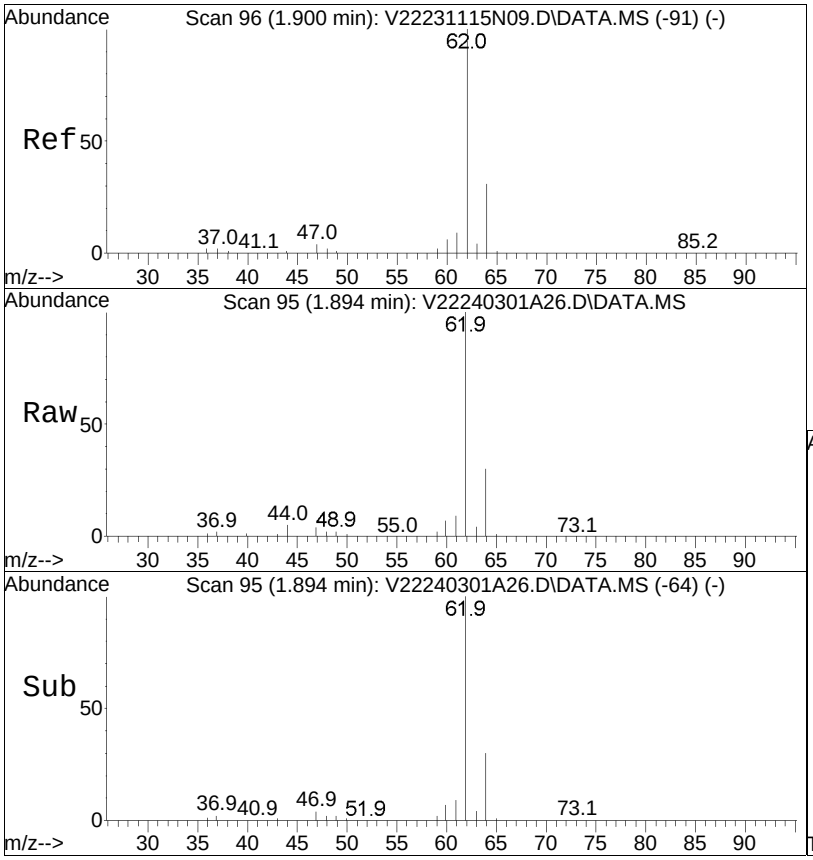


#3
Chloromethane
Concen: 10.98 ug/L
RT: 1.821 min Scan# 84
Delta R.T. -0.000 min
Lab File: V22240301A26.D
Acq: 01 Mar 2024 06:39 pm

Tgt Ion: 50 Resp: 130525

Ion	Ratio	Lower	Upper
50	100		
52	33.2	12.8	52.8
47	7.3	0.0	30.0

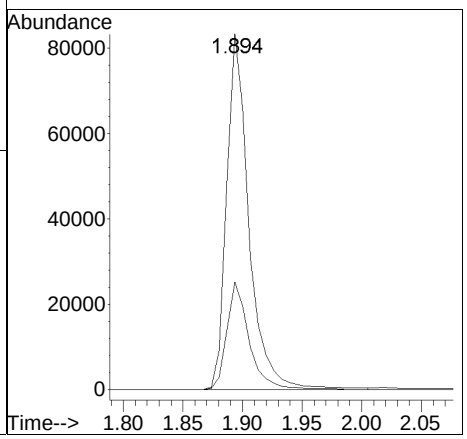


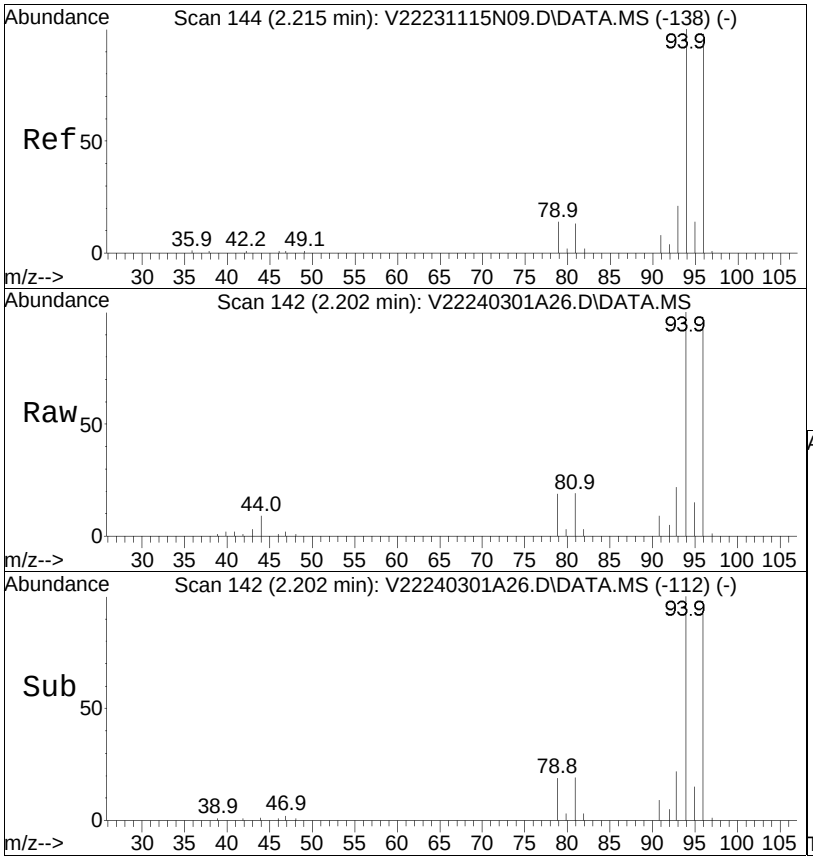


#4
Vinyl chloride
Concen: 10.99 ug/L
RT: 1.894 min Scan# 95
Delta R.T. -0.000 min
Lab File: V22240301A26.D
Acq: 01 Mar 2024 06:39 pm

Tgt Ion: 62 Resp: 108516

Ion	Ratio	Lower	Upper
62	100		
64	30.1	12.0	52.0

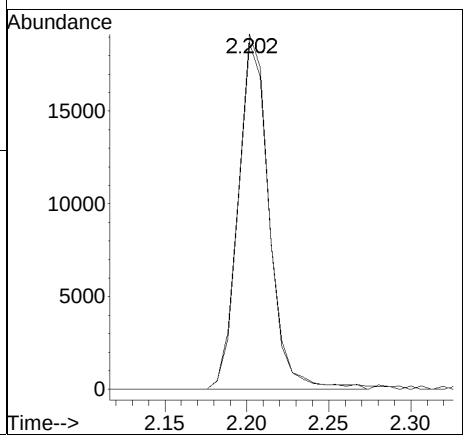


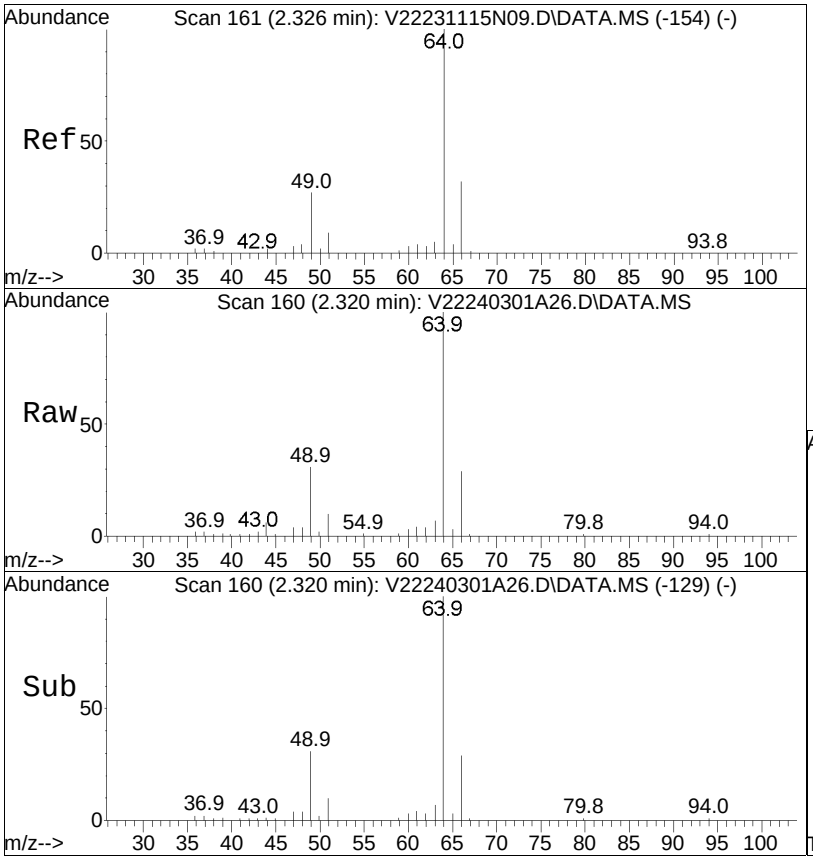


#5
Bromomethane
Concen: 4.25 ug/L
RT: 2.202 min Scan# 142
Delta R.T. -0.007 min
Lab File: V22240301A26.D
Acq: 01 Mar 2024 06:39 pm

Tgt Ion: 94 Resp: 25304

Ion	Ratio	Lower	Upper
94	100		
96	97.6	72.8	112.8

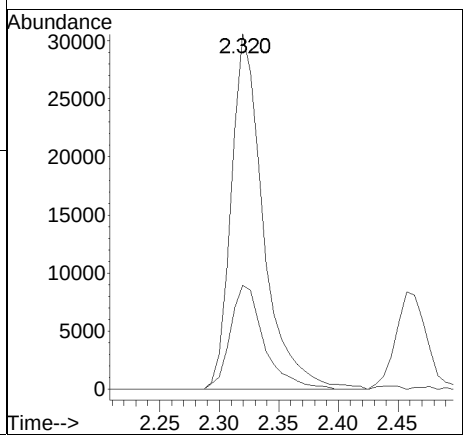


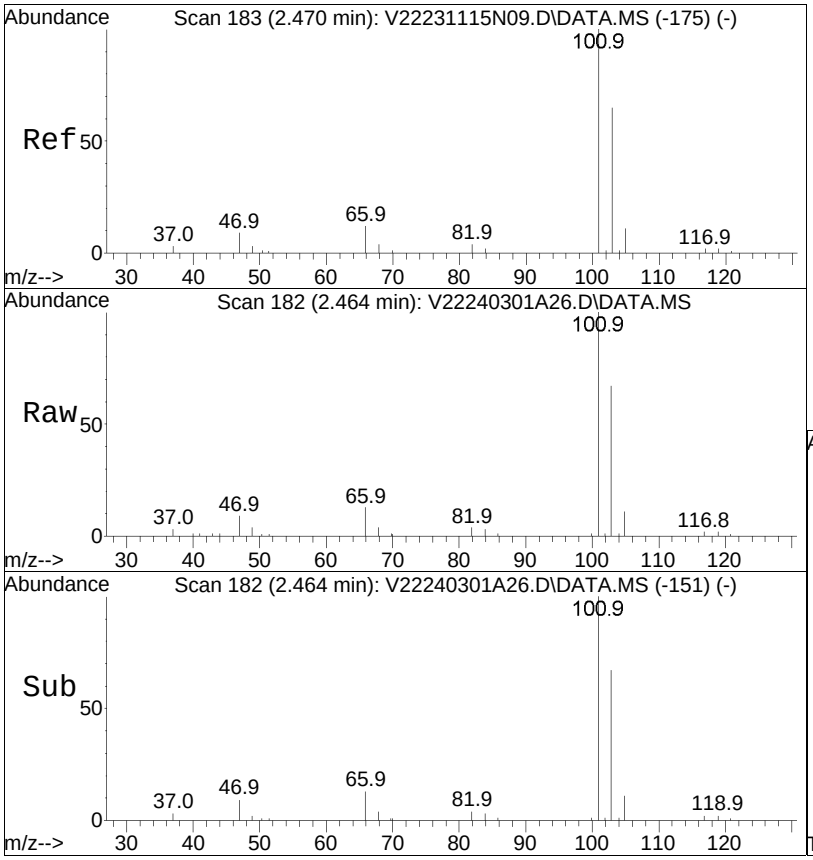


#6
Chloroethane
Concen: 10.47 ug/L
RT: 2.320 min Scan# 160
Delta R.T. -0.000 min
Lab File: V22240301A26.D
Acq: 01 Mar 2024 06:39 pm

Tgt Ion: 64 Resp: 57528

Ion	Ratio	Lower	Upper
64	100		
66	31.0	12.2	52.2

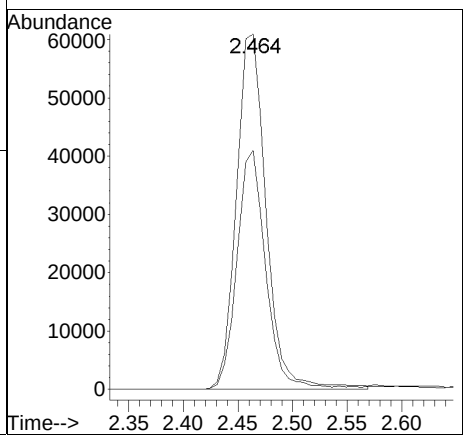


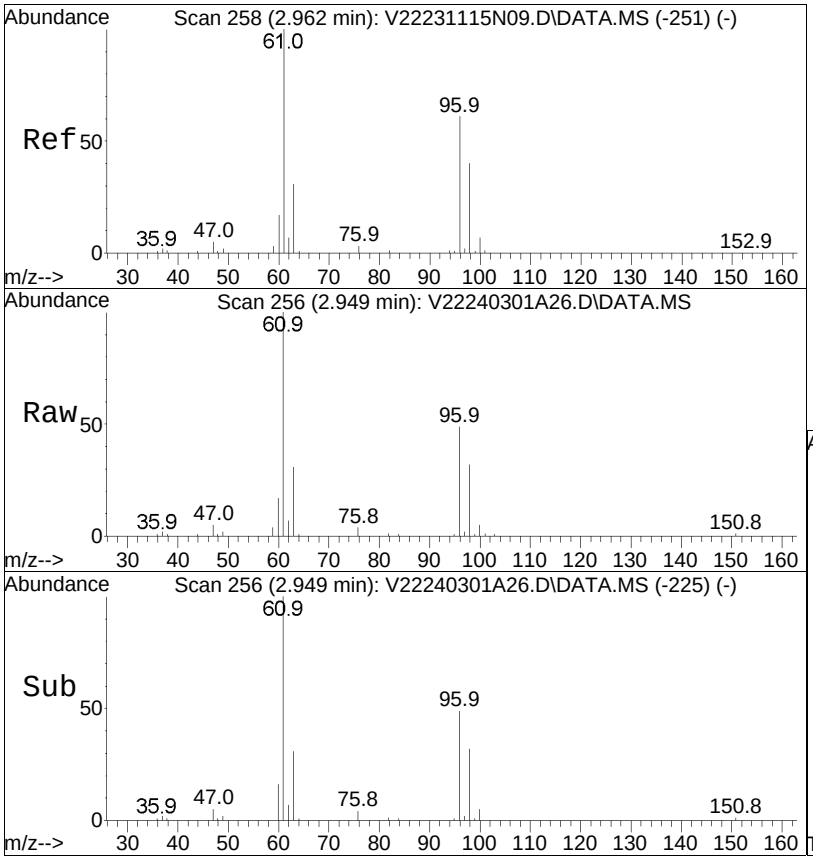


#7
Trichlorofluoromethane
Concen: 10.94 ug/L
RT: 2.464 min Scan# 182
Delta R.T. -0.000 min
Lab File: V22240301A26.D
Acq: 01 Mar 2024 06:39 pm

Tgt Ion:101 Resp: 115791

Ion	Ratio	Lower	Upper
101	100		
103	64.6	51.6	77.4

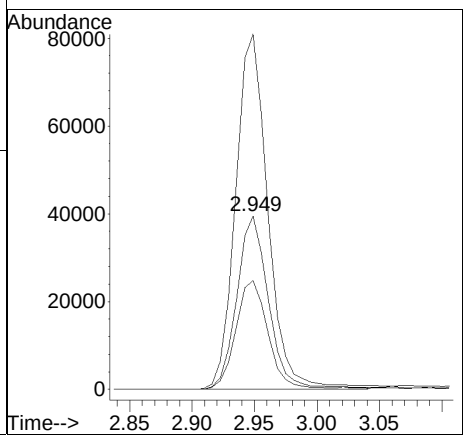


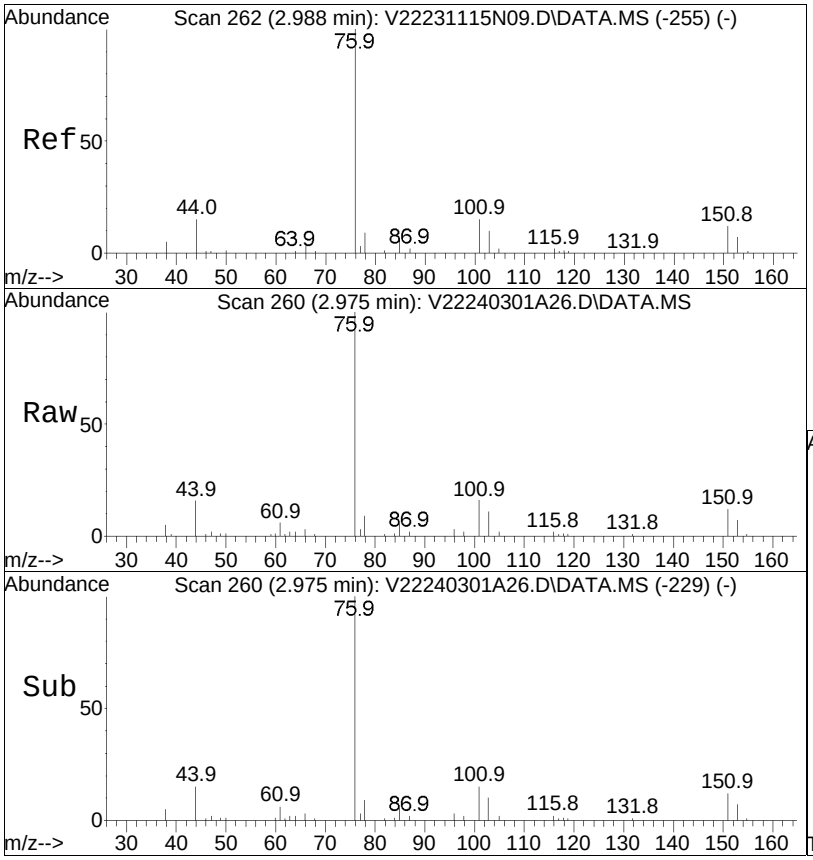


#10
1,1-Dichloroethene
Concen: 10.44 ug/L
RT: 2.949 min Scan# 256
Delta R.T. -0.000 min
Lab File: V22240301A26.D
Acq: 01 Mar 2024 06:39 pm

Tgt Ion: 96 Resp: 70126

Ion	Ratio	Lower	Upper
96	100		
61	208.9	117.0	175.4#
63	63.4	37.8	56.6#

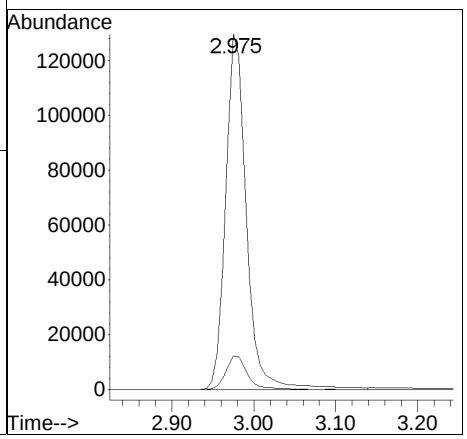


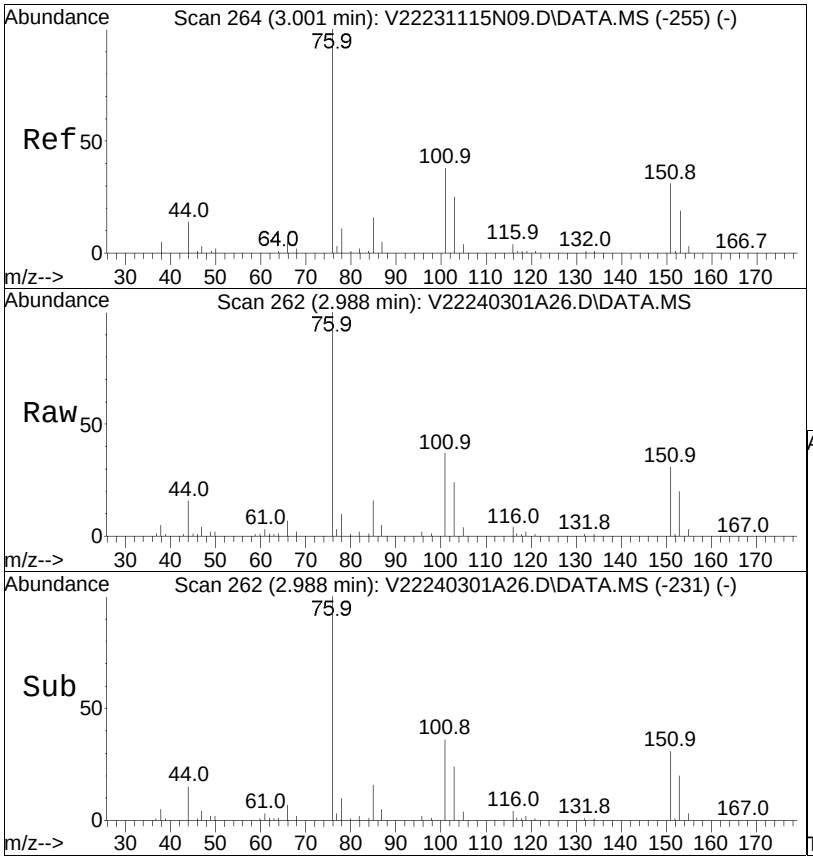


#11
Carbon disulfide
Concen: 10.52 ug/L
RT: 2.975 min Scan# 260
Delta R.T. -0.000 min
Lab File: V22240301A26.D
Acq: 01 Mar 2024 06:39 pm

Tgt Ion: 76 Resp: 228869

Ion	Ratio	Lower	Upper
76	100		
78	9.6	6.4	13.4

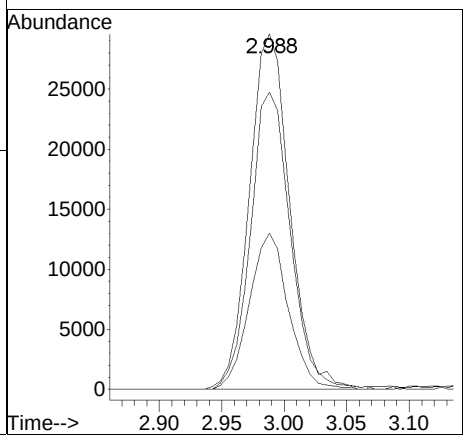


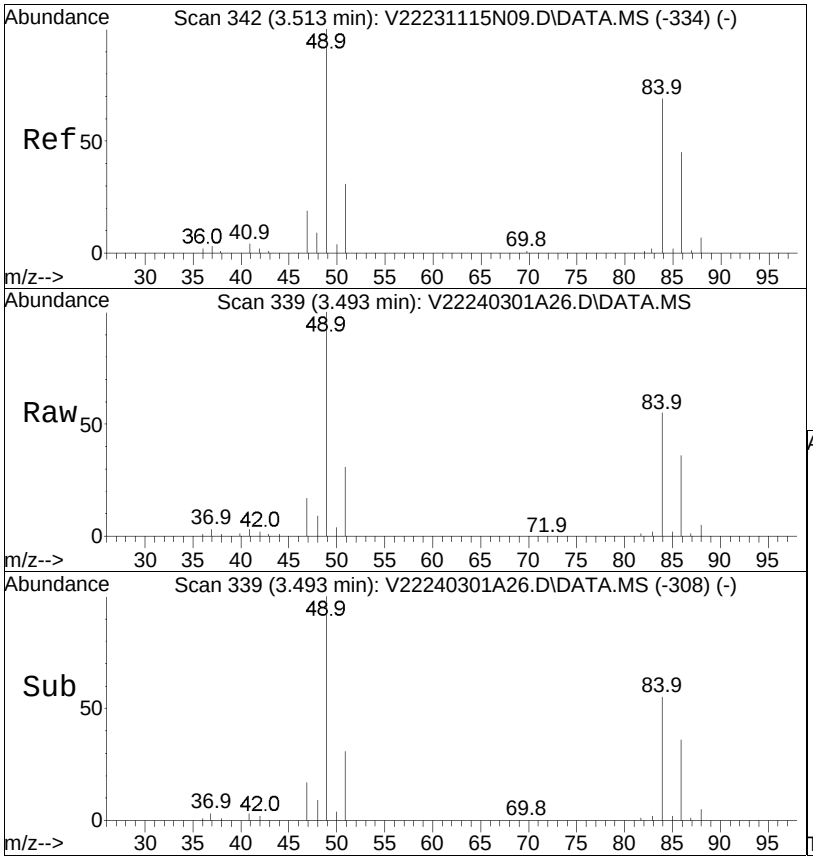


#12
Freon-113
Concen: 10.70 ug/L
RT: 2.988 min Scan# 262
Delta R.T. -0.000 min
Lab File: V22240301A26.D
Acq: 01 Mar 2024 06:39 pm

Tgt Ion:101 Resp: 66712

Ion	Ratio	Lower	Upper
101	100		
151	82.4	68.5	102.7
85	42.6	33.1	49.7

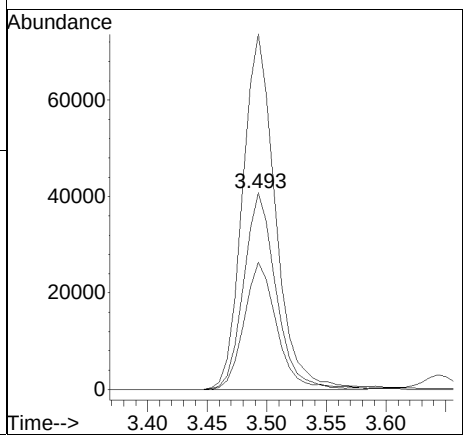


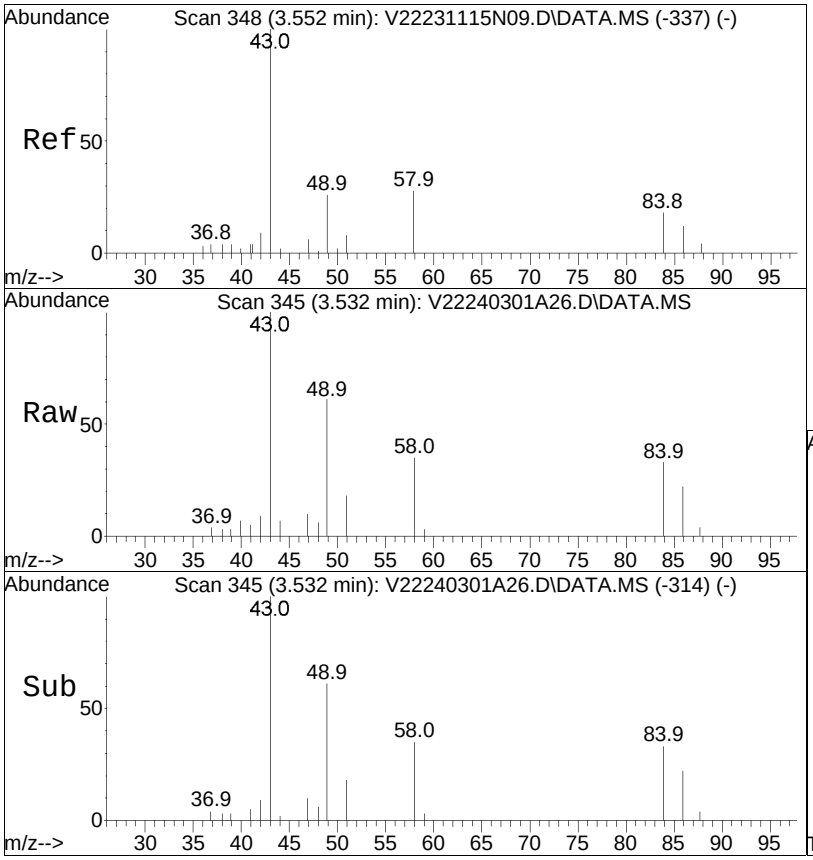


#15
Methylene chloride
Concen: 9.31 ug/L
RT: 3.493 min Scan# 339
Delta R.T. -0.000 min
Lab File: V22240301A26.D
Acq: 01 Mar 2024 06:39 pm

Tgt Ion: 84 Resp: 77201

Ion	Ratio	Lower	Upper
84	100		
86	65.6	41.5	86.3
49	183.2	68.8	143.0#

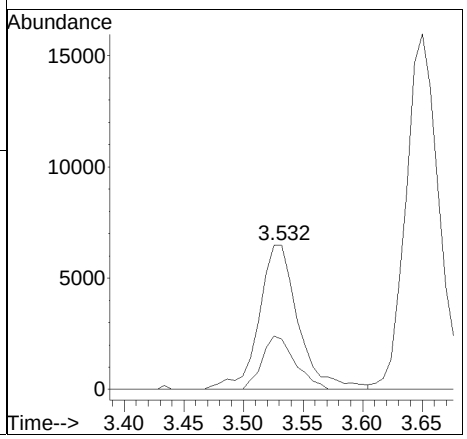


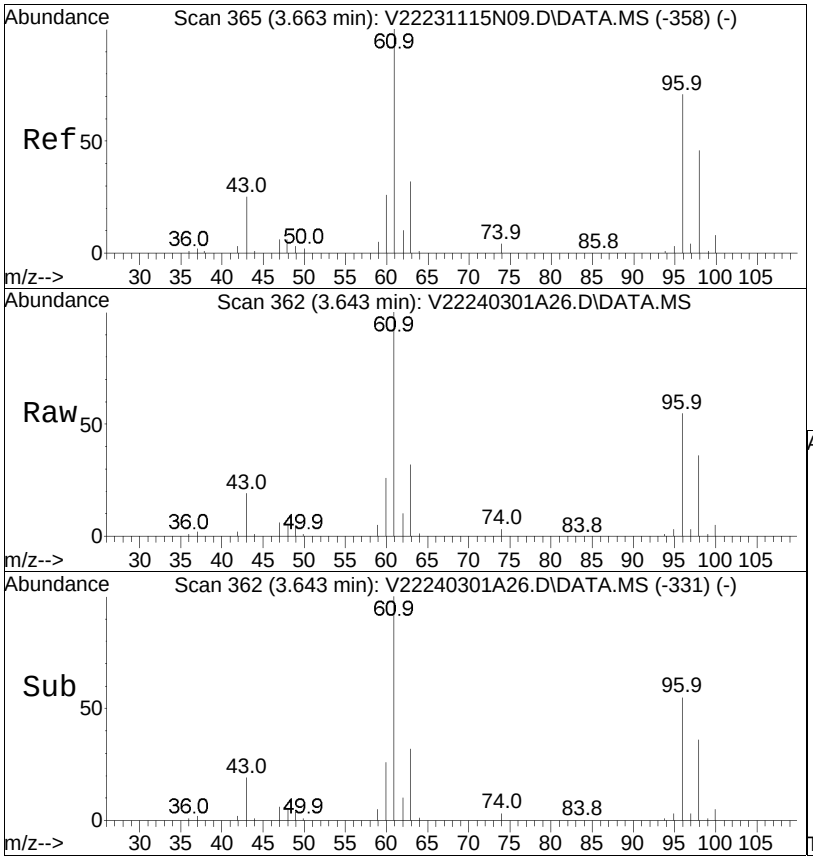


#17
Acetone
Concen: 10.66 ug/L
RT: 3.532 min Scan# 345
Delta R.T. 0.006 min
Lab File: V22240301A26.D
Acq: 01 Mar 2024 06:39 pm

Tgt Ion: 43 Resp: 14952

Ion	Ratio	Lower	Upper
43	100		
58	31.0	23.1	34.7

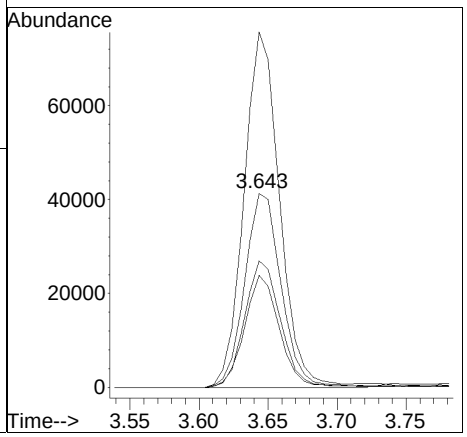


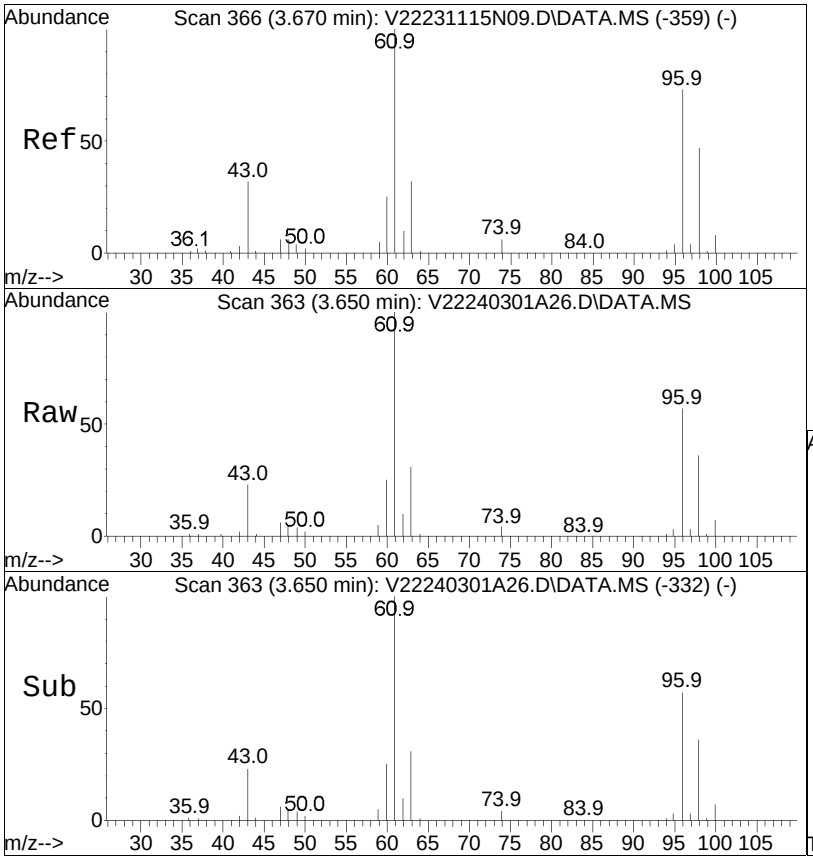


#18
trans-1,2-Dichloroethene
Concen: 9.97 ug/L
RT: 3.643 min Scan# 362
Delta R.T. -0.000 min
Lab File: V22240301A26.D
Acq: 01 Mar 2024 06:39 pm

Tgt Ion: 96 Resp: 76043

Ion	Ratio	Lower	Upper
96	100		
61	178.3	81.6	169.6#
98	64.3	41.8	86.8
63	55.4	26.3	54.7#

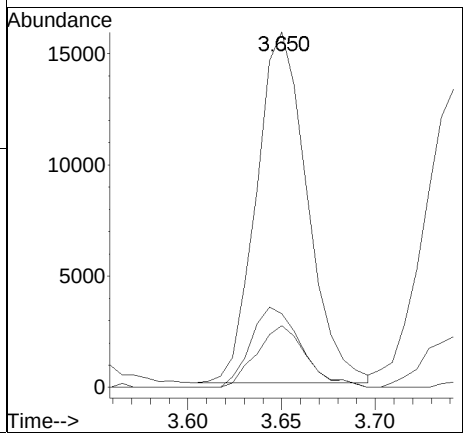


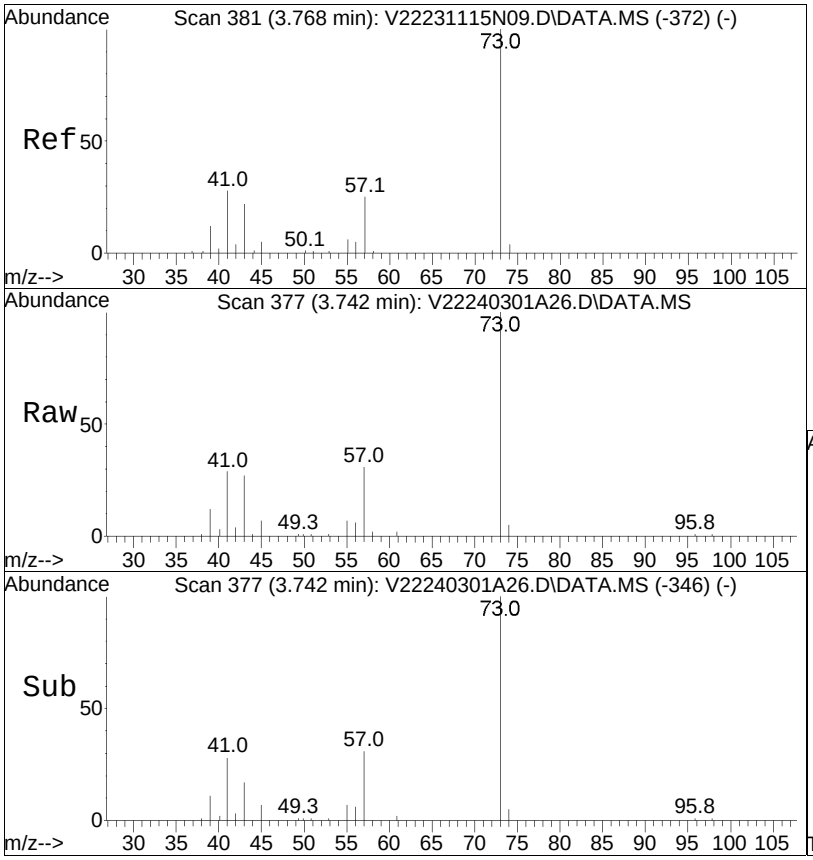


#19
Methyl acetate
Concen: 9.90 ug/L
RT: 3.650 min Scan# 363
Delta R.T. -0.000 min
Lab File: V22240301A26.D
Acq: 01 Mar 2024 06:39 pm

Tgt Ion: 43 Resp: 29726

Ion	Ratio	Lower	Upper
43	100		
74	17.4	21.8	32.6#
59	22.6	18.1	27.1

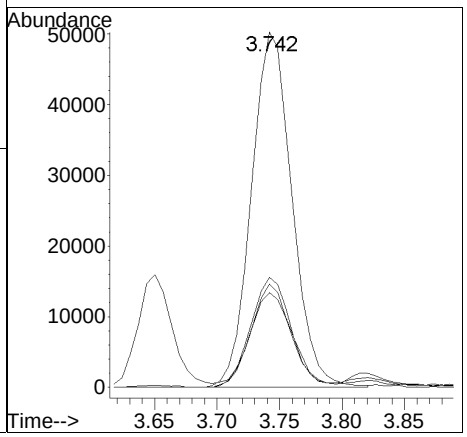


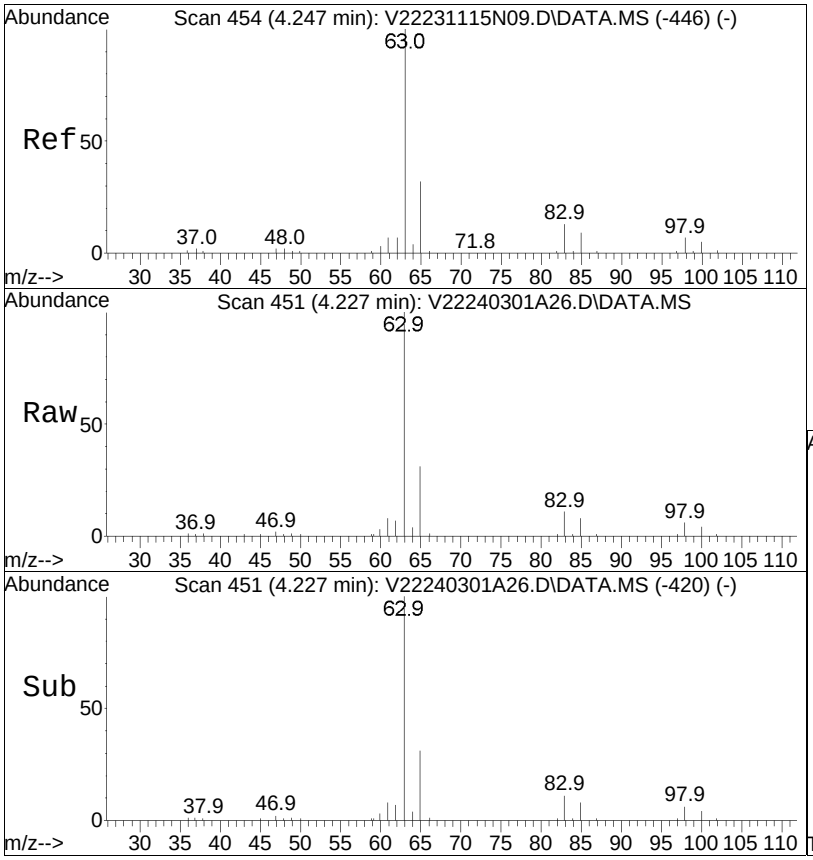


#21
Methyl tert-butyl ether
Concen: 9.47 ug/L
RT: 3.742 min Scan# 377
Delta R.T. -0.000 min
Lab File: V22240301A26.D
Acq: 01 Mar 2024 06:39 pm

Tgt Ion: 73 Resp: 113597

Ion	Ratio	Lower	Upper
73	100		
57	31.1	13.6	28.2#
43	26.8	12.7	26.5#
41	28.9	11.4	23.8#

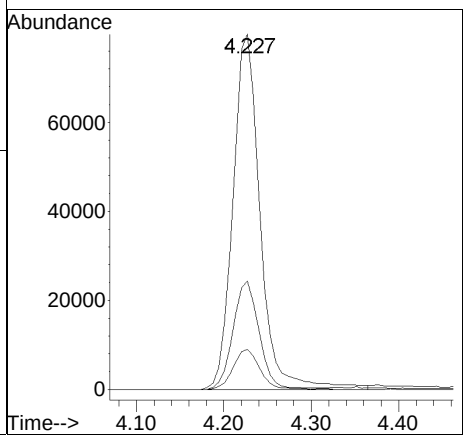


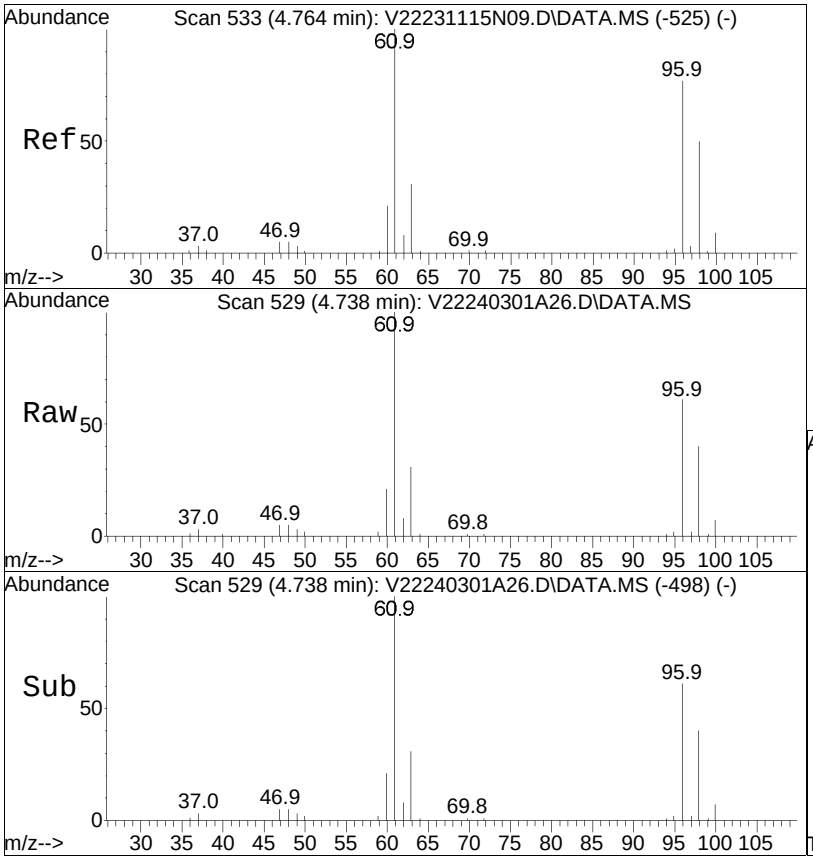


#25
1,1-Dichloroethane
Concen: 11.17 ug/L
RT: 4.227 min Scan# 451
Delta R.T. -0.000 min
Lab File: V22240301A26.D
Acq: 01 Mar 2024 06:39 pm

Tgt Ion: 63 Resp: 173263

Ion	Ratio	Lower	Upper
63	100		
65	29.1	11.9	51.9
83	11.0	0.0	34.2

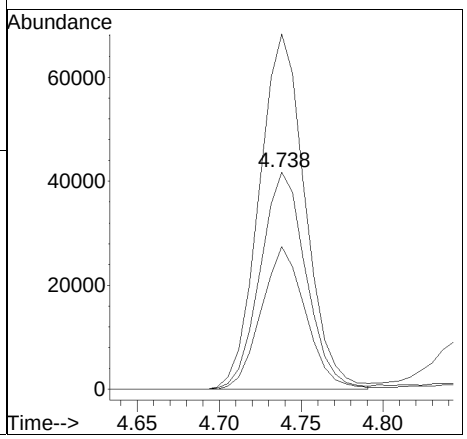


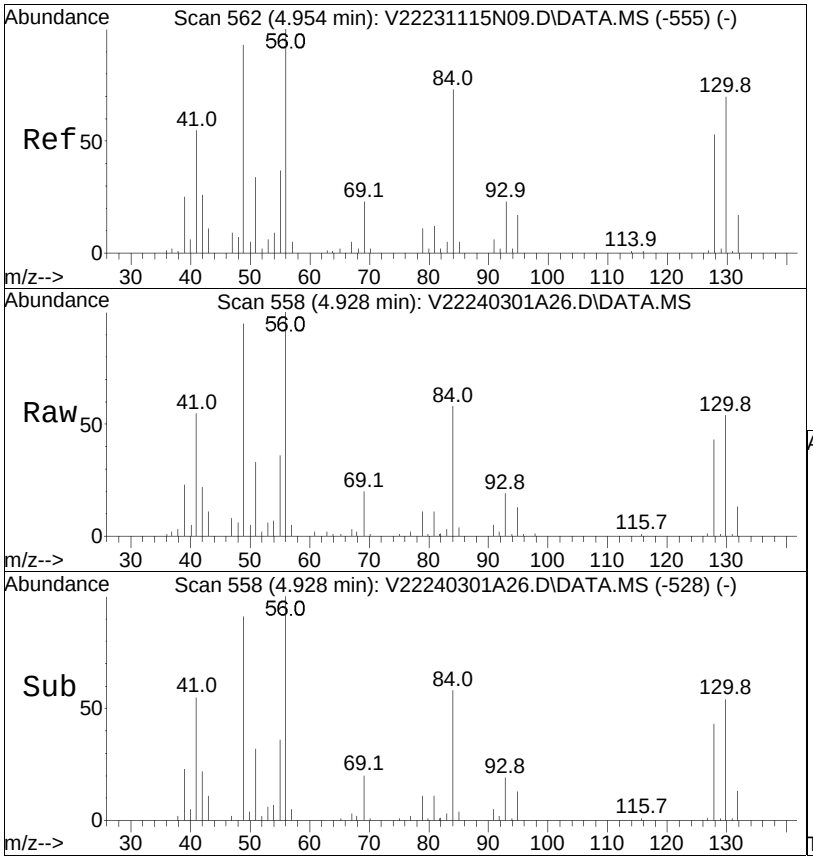


#30
cis-1,2-Dichloroethene
Concen: 9.50 ug/L
RT: 4.738 min Scan# 529
Delta R.T. -0.000 min
Lab File: V22240301A26.D
Acq: 01 Mar 2024 06:39 pm

Tgt Ion: 96 Resp: 81103

Ion	Ratio	Lower	Upper
96	100		
61	164.8	90.3	135.5#
98	64.0	50.8	76.2

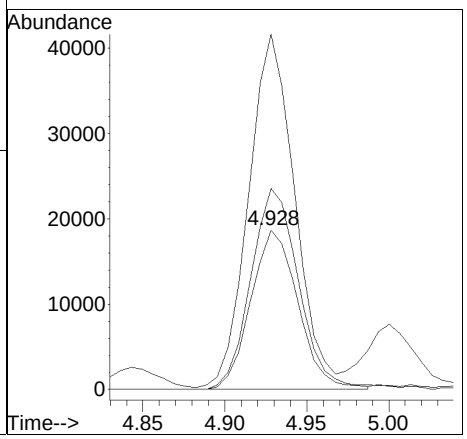


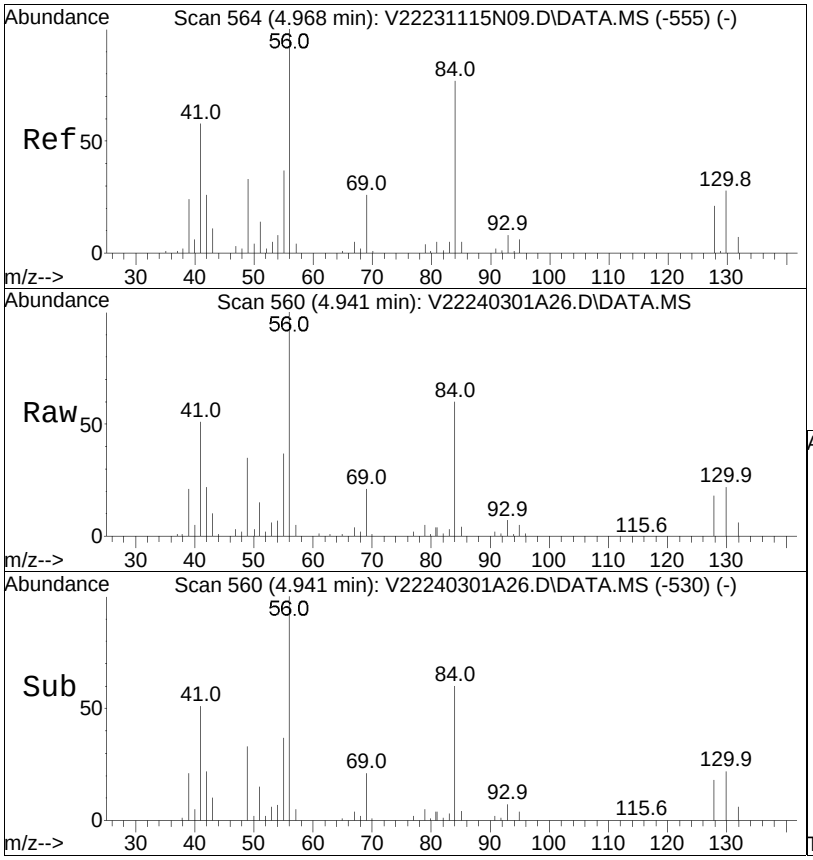


#32
Bromochloromethane
Concen: 9.56 ug/L
RT: 4.928 min Scan# 558
Delta R.T. -0.007 min
Lab File: V22240301A26.D
Acq: 01 Mar 2024 06:39 pm

Tgt Ion:128 Resp: 37417

Ion	Ratio	Lower	Upper
128	100		
49	215.9	104.4	156.6#
130	129.9	103.9	155.9

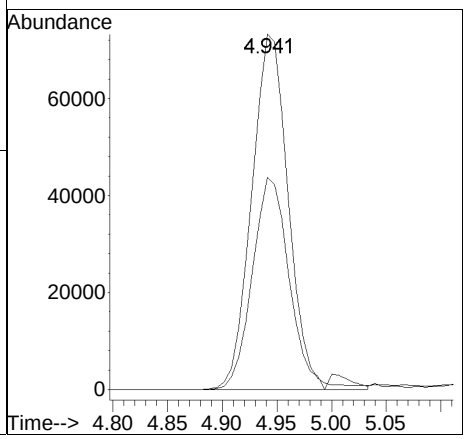


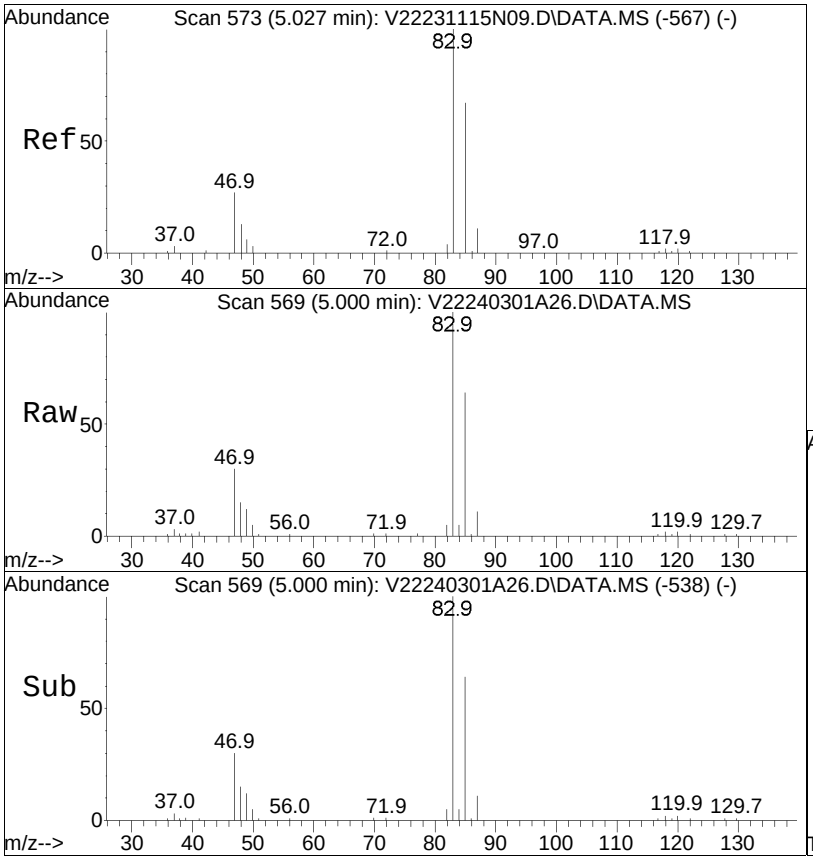


#33
Cyclohexane
Concen: 12.48 ug/L
RT: 4.941 min Scan# 560
Delta R.T. -0.007 min
Lab File: V22240301A26.D
Acq: 01 Mar 2024 06:39 pm

Tgt Ion: 56 Resp: 171489

Ion	Ratio	Lower	Upper
56	100		
84	59.1	66.0	137.2#

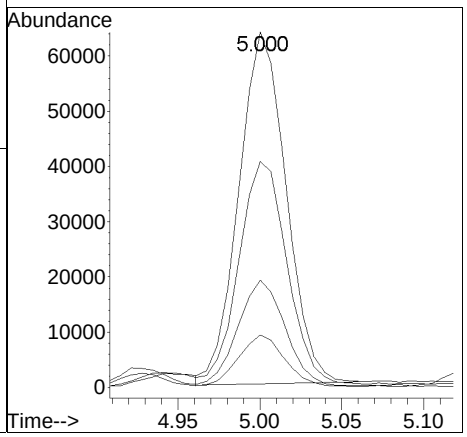


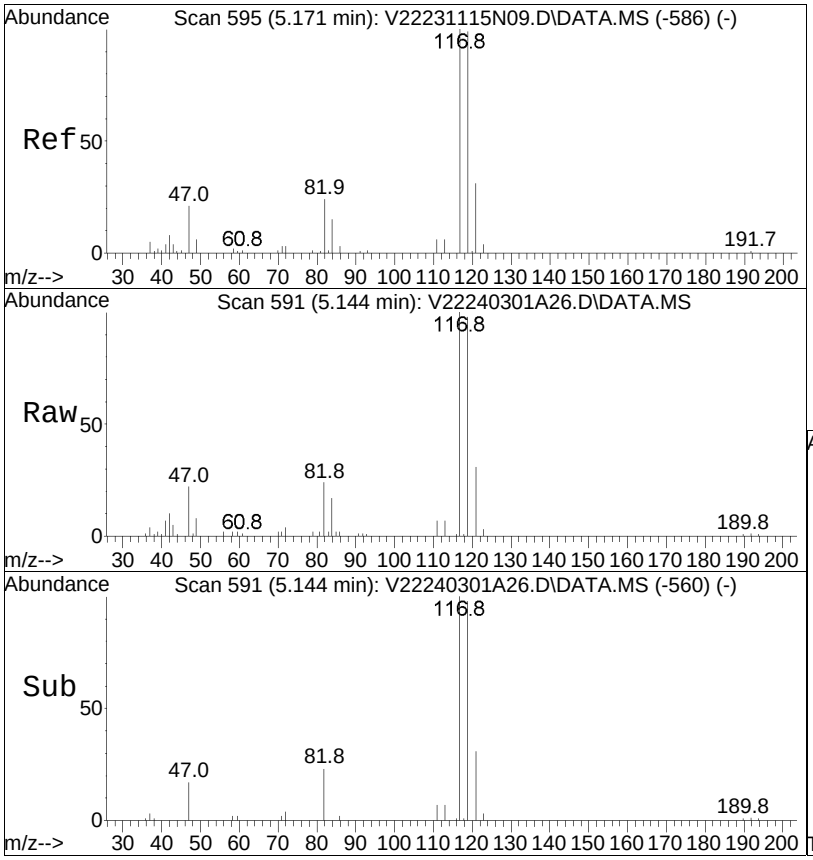


#34
Chloroform
Concen: 9.40 ug/L
RT: 5.000 min Scan# 569
Delta R.T. -0.000 min
Lab File: V22240301A26.D
Acq: 01 Mar 2024 06:39 pm

Tgt Ion: 83 Resp: 127999

Ion	Ratio	Lower	Upper
83	100		
85	65.2	42.4	88.2
47	29.8	14.0	29.0#
48	14.4	6.9	14.3#

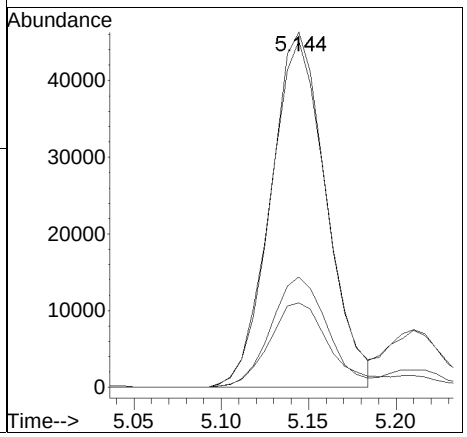


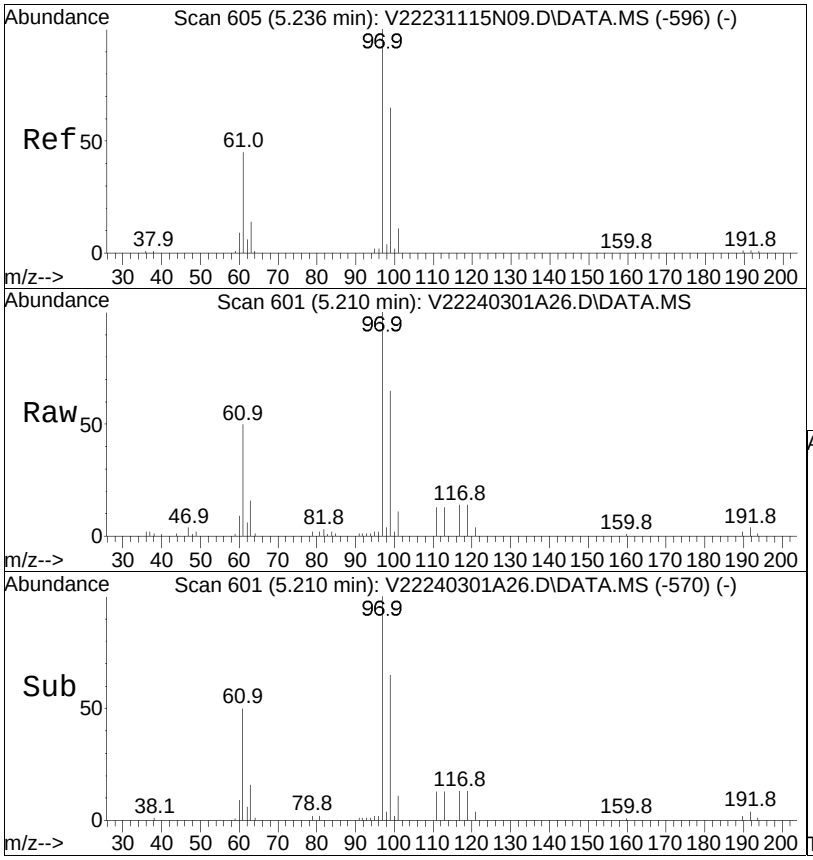


#36
Carbon tetrachloride
Concen: 9.85 ug/L
RT: 5.144 min Scan# 591
Delta R.T. -0.000 min
Lab File: V22240301A26.D
Acq: 01 Mar 2024 06:39 pm

Tgt Ion:117 Resp: 103120

Ion	Ratio	Lower	Upper
117	100		
119	97.3	62.1	129.1
121	31.3	20.3	42.3
82	26.4	15.4	32.0

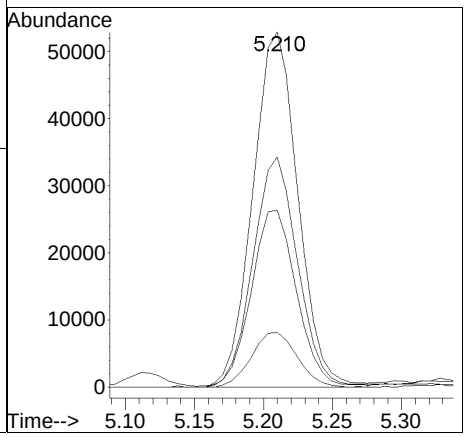


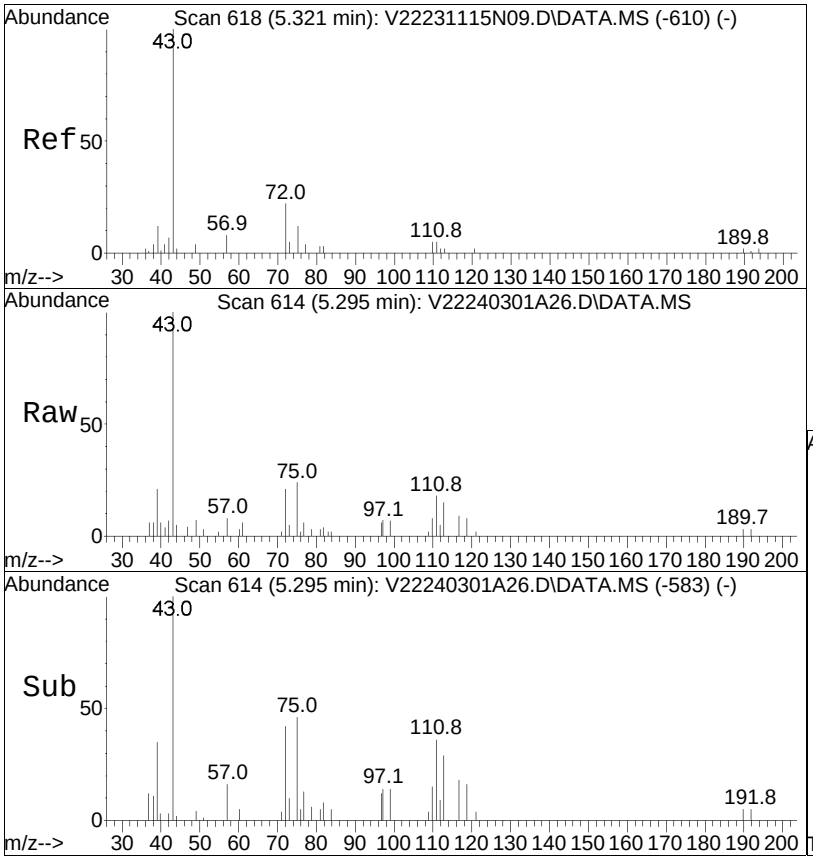


#39
1,1,1-Trichloroethane
Concen: 10.07 ug/L
RT: 5.210 min Scan# 601
Delta R.T. -0.000 min
Lab File: V22240301A26.D
Acq: 01 Mar 2024 06:39 pm

Tgt Ion: 97 Resp: 120860

Ion	Ratio	Lower	Upper
97	100		
99	64.1	42.4	88.0
61	49.6	26.0	54.0
63	15.9	8.3	17.3

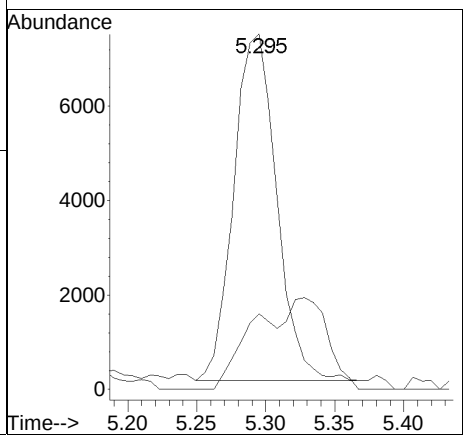


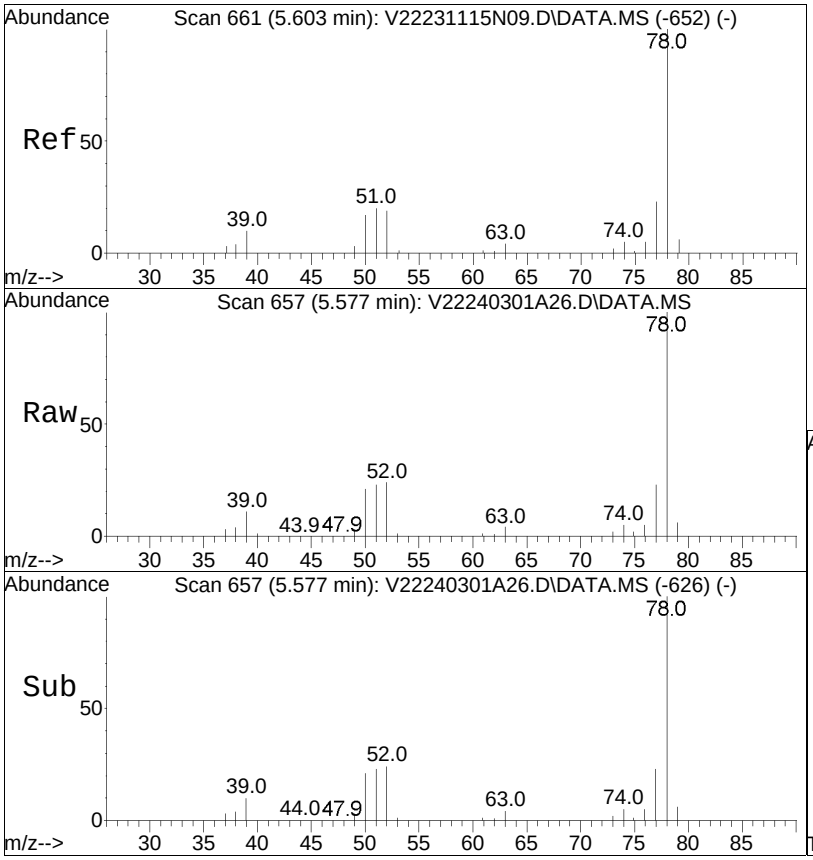


#41
2-Butanone
Concen: 9.06 ug/L
RT: 5.295 min Scan# 614
Delta R.T. -0.000 min
Lab File: V22240301A26.D
Acq: 01 Mar 2024 06:39 pm

Tgt Ion: 43 Resp: 15914

Ion	Ratio	Lower	Upper
43	100		
72	19.1	45.8	68.8#

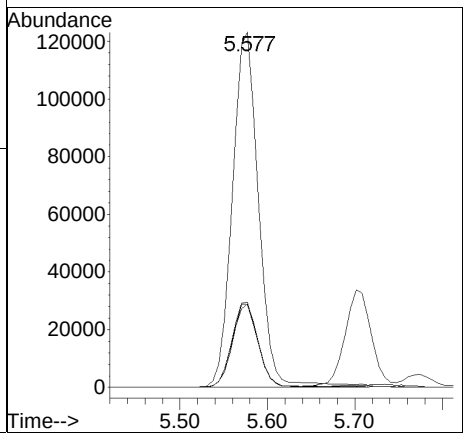


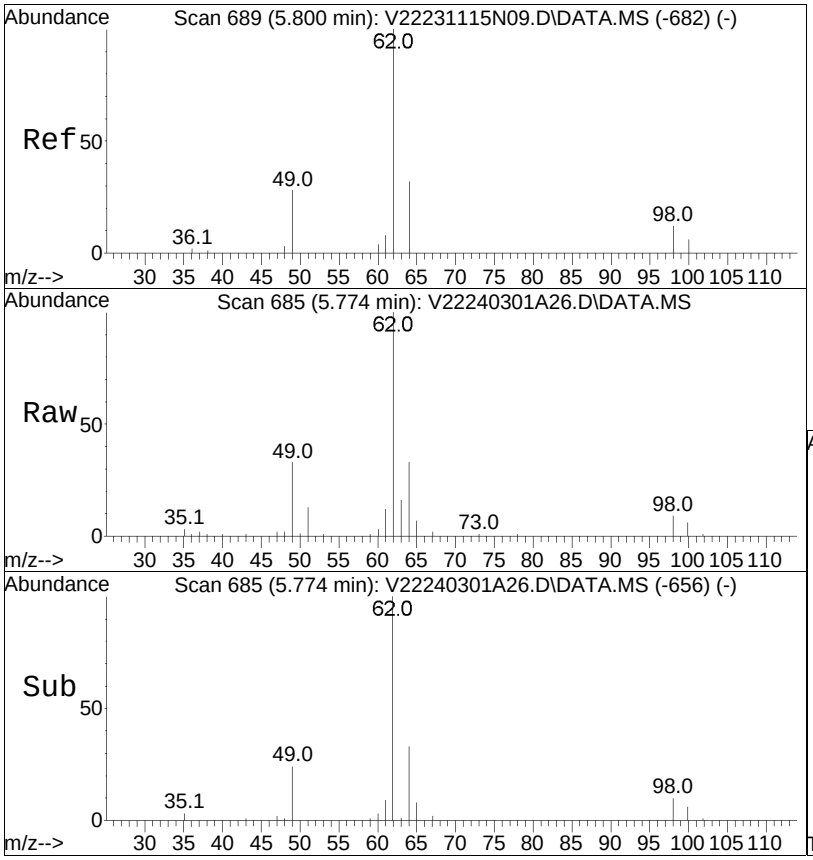


#44
Benzene
Concen: 9.96 ug/L
RT: 5.577 min Scan# 657
Delta R.T. -0.000 min
Lab File: V22240301A26.D
Acq: 01 Mar 2024 06:39 pm

Tgt Ion: 78 Resp: 275001

Ion	Ratio	Lower	Upper
78	100		
77	23.6	15.4	32.0
51	21.7	9.8	20.4#
52	22.2	9.2	19.2#

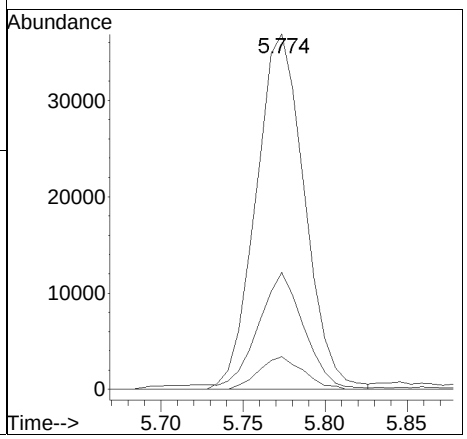


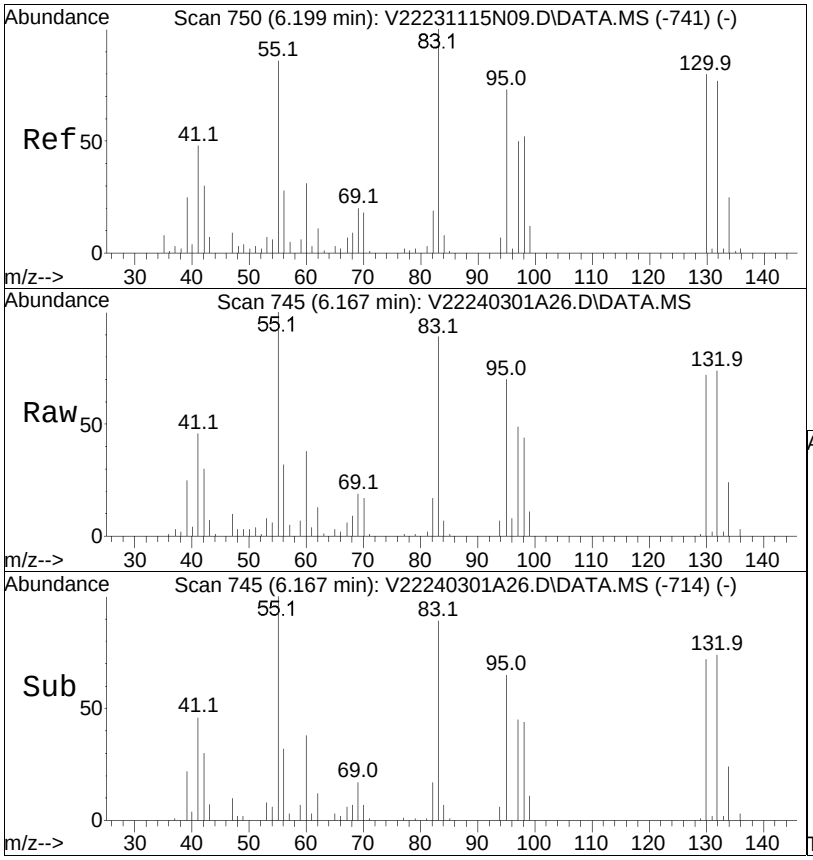


#47
1,2-Dichloroethane
Concen: 10.11 ug/L
RT: 5.774 min Scan# 685
Delta R.T. -0.000 min
Lab File: V22240301A26.D
Acq: 01 Mar 2024 06:39 pm

Tgt Ion: 62 Resp: 75878

Ion	Ratio	Lower	Upper
62	100		
64	32.7	12.3	52.3
98	8.5	0.0	30.3

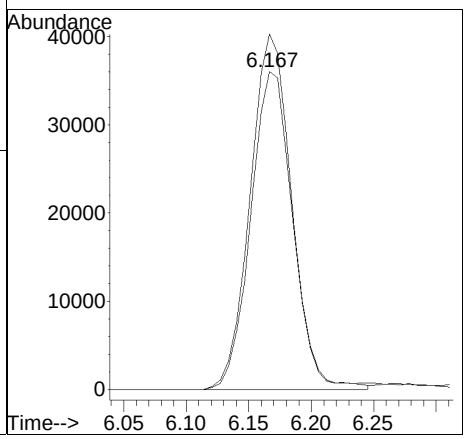


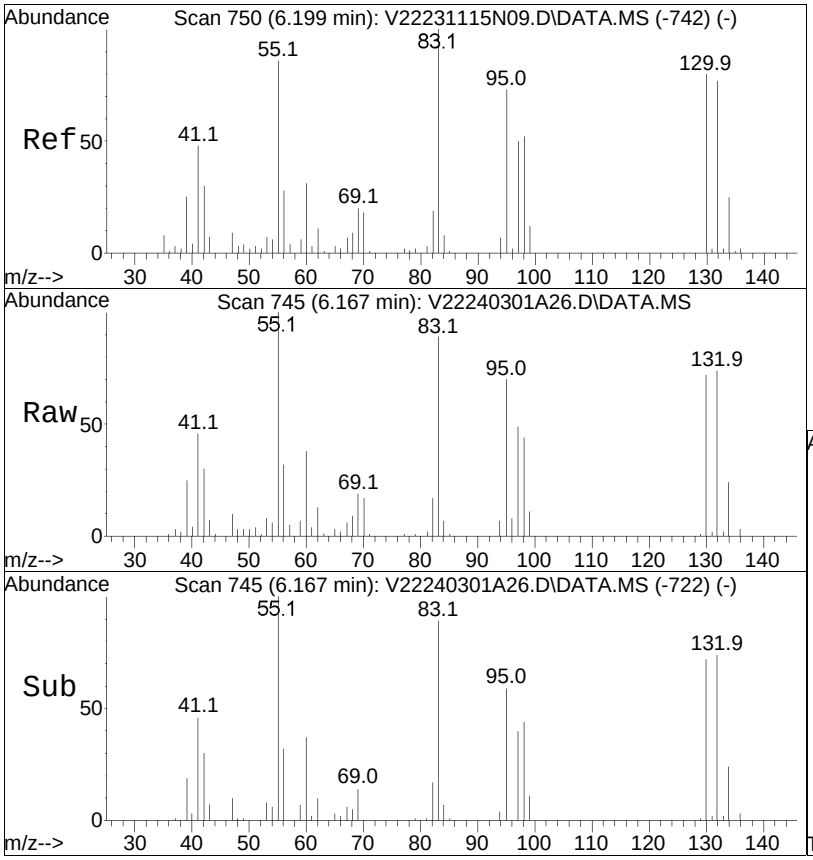


#50
Methyl cyclohexane
Concen: 9.14 ug/L
RT: 6.167 min Scan# 745
Delta R.T. -0.000 min
Lab File: V22240301A26.D
Acq: 01 Mar 2024 06:39 pm

Tgt Ion: 83 Resp: 84069

Ion	Ratio	Lower	Upper
83	100		
55	113.4	55.4	83.2#

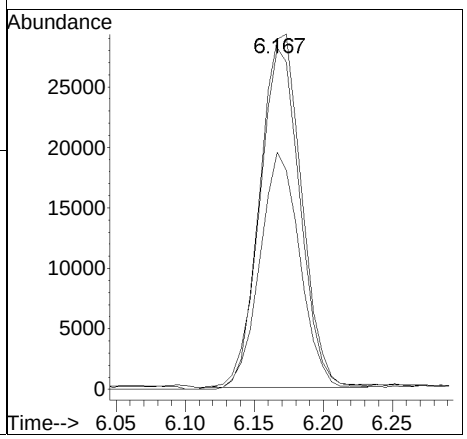


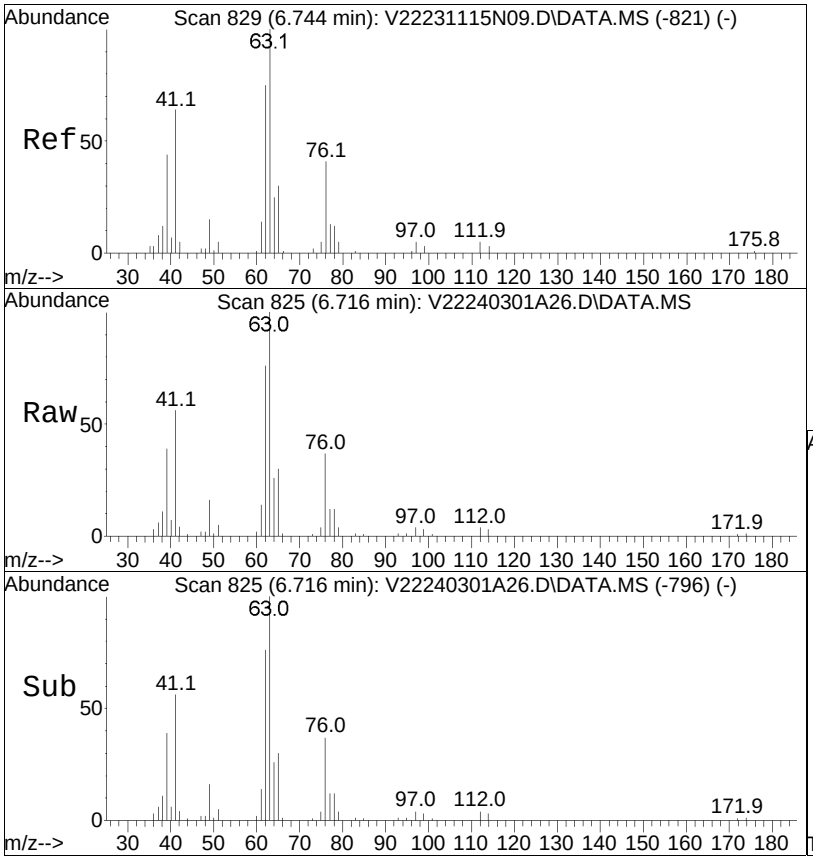


#51
Trichloroethene
Concen: 8.89 ug/L
RT: 6.167 min Scan# 745
Delta R.T. -0.007 min
Lab File: V22240301A26.D
Acq: 01 Mar 2024 06:39 pm

Tgt Ion: 95 Resp: 57077

Ion	Ratio	Lower	Upper
95	100		
97	70.6	55.0	82.4
130	109.3	89.2	133.8

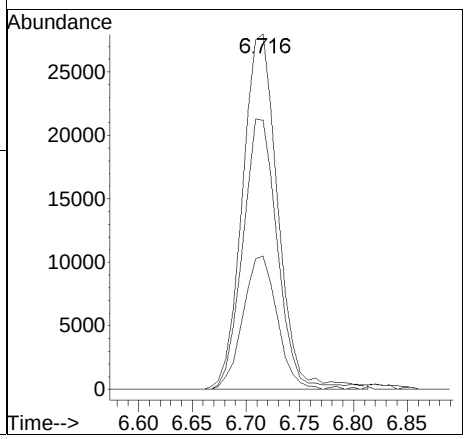


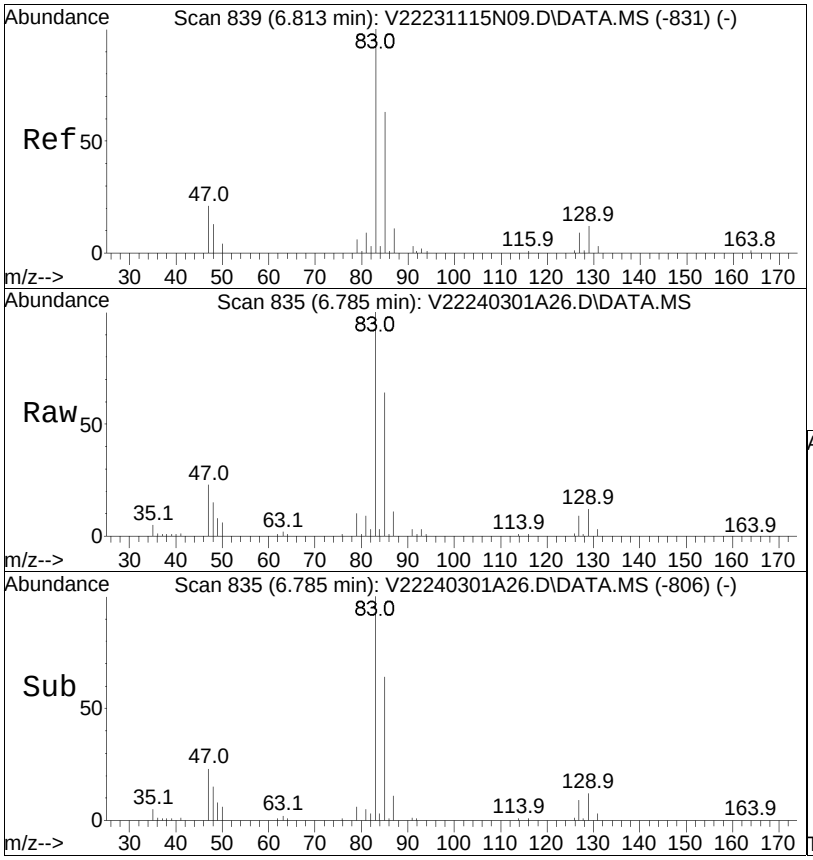


#54
1,2-Dichloropropane
Concen: 10.32 ug/L
RT: 6.716 min Scan# 825
Delta R.T. -0.000 min
Lab File: V22240301A26.D
Acq: 01 Mar 2024 06:39 pm

Tgt Ion: 63 Resp: 64317

Ion	Ratio	Lower	Upper
63	100		
62	74.1	56.9	85.3
76	36.1	35.8	53.8

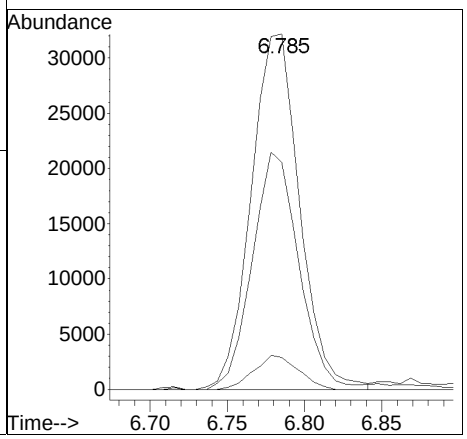


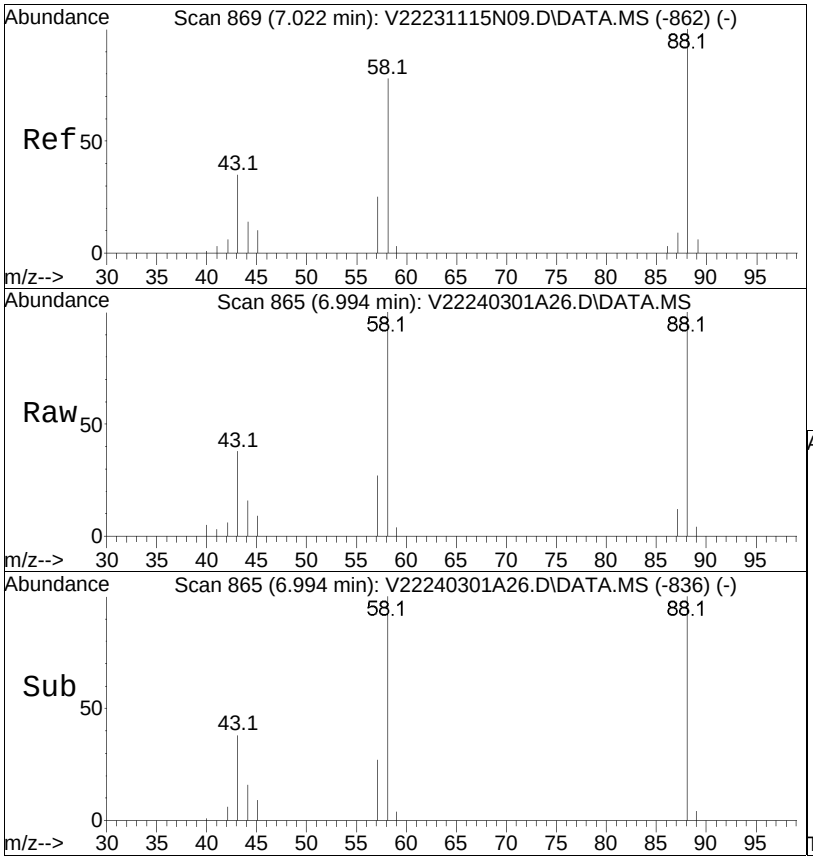


#57
Bromodichloromethane
Concen: 8.70 ug/L
RT: 6.785 min Scan# 835
Delta R.T. -0.000 min
Lab File: V22240301A26.D
Acq: 01 Mar 2024 06:39 pm

Tgt Ion: 83 Resp: 70249

Ion	Ratio	Lower	Upper
83	100		
85	63.9	51.6	77.4
127	8.8	7.4	11.0

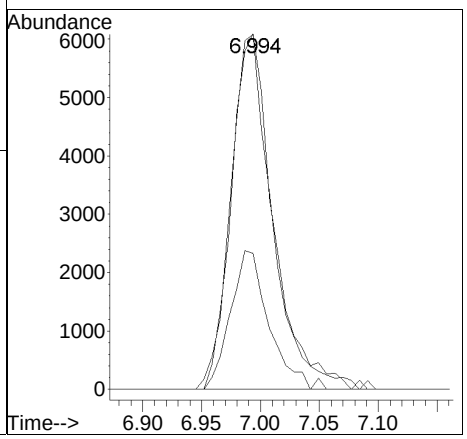


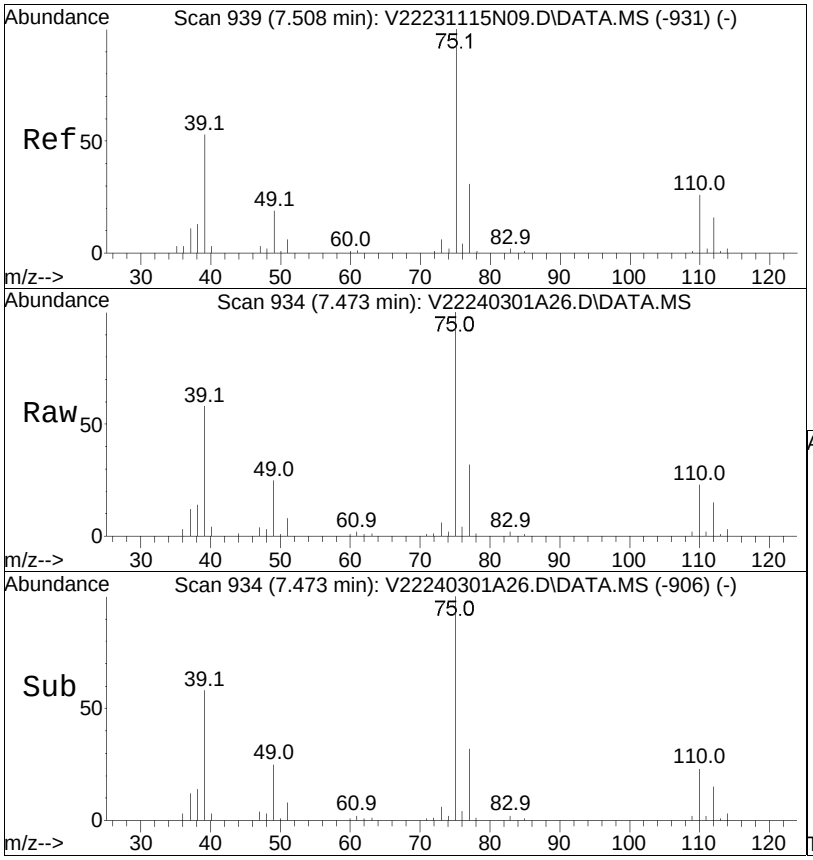


#60
1,4-Dioxane
Concen: 398.21 ug/L
RT: 6.994 min Scan# 865
Delta R.T. -0.000 min
Lab File: V22240301A26.D
Acq: 01 Mar 2024 06:39 pm

Tgt Ion: 88 Resp: 15104

Ion	Ratio	Lower	Upper
88	100		
58	98.9	43.3	64.9#
43	35.9	15.1	22.7#

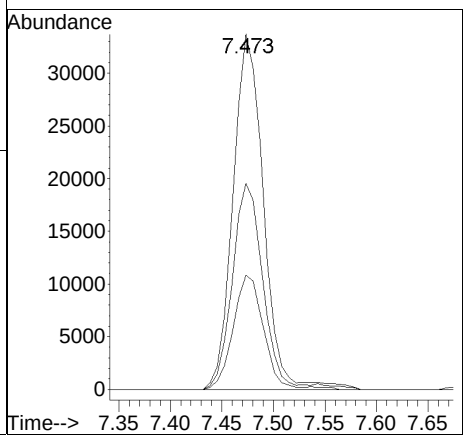


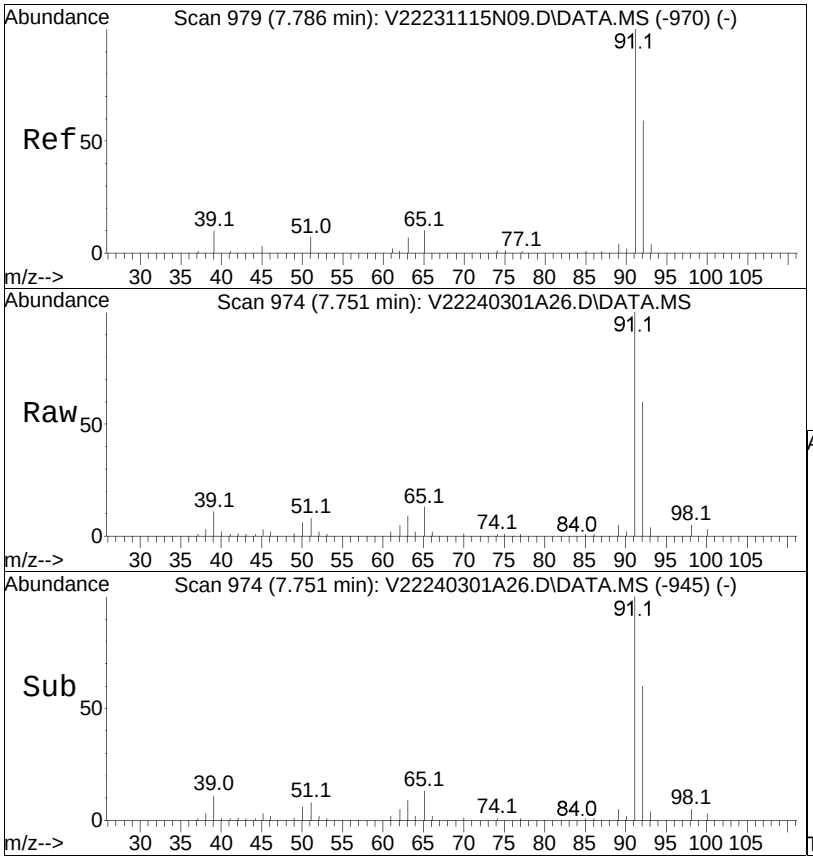


#61
cis-1,3-Dichloropropene
Concen: 8.23 ug/L
RT: 7.473 min Scan# 934
Delta R.T. -0.007 min
Lab File: V22240301A26.D
Acq: 01 Mar 2024 06:39 pm

Tgt Ion: 75 Resp: 69438

Ion	Ratio	Lower	Upper
75	100		
77	31.6	25.6	38.4
39	57.5	35.4	53.0#

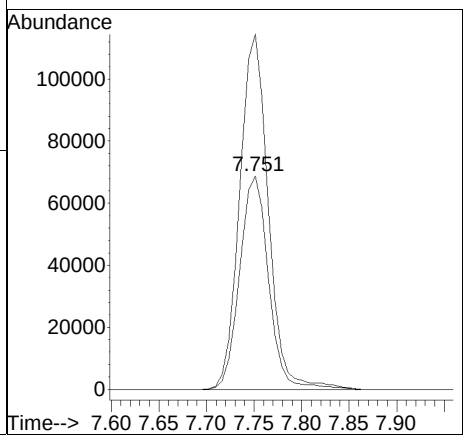


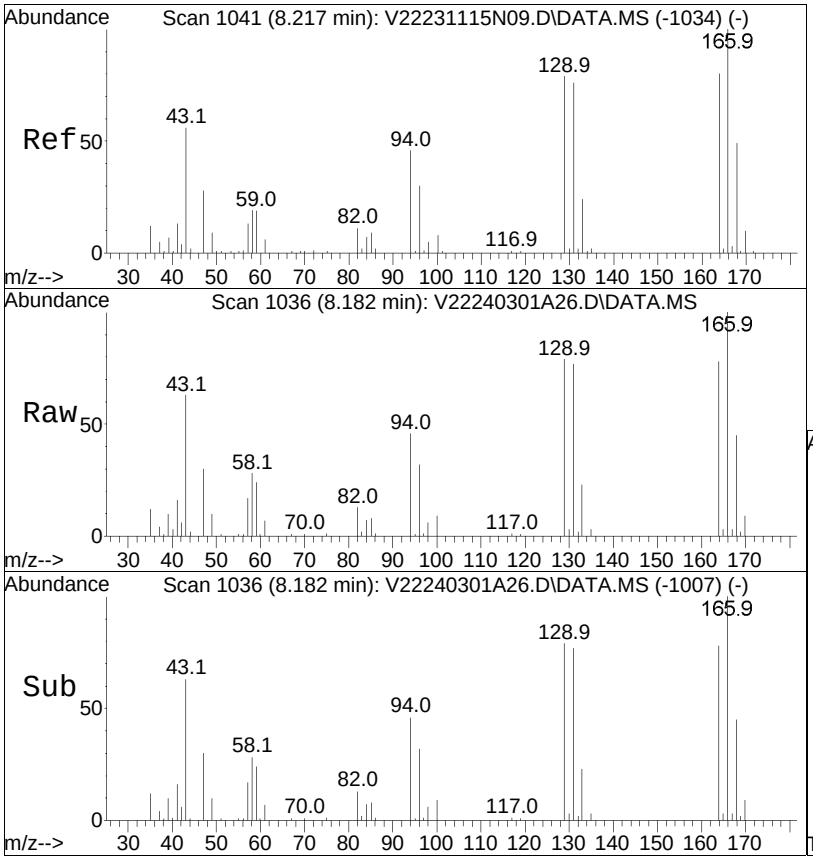


#64
Toluene
Concen: 9.41 ug/L
RT: 7.751 min Scan# 974
Delta R.T. -0.000 min
Lab File: V22240301A26.D
Acq: 01 Mar 2024 06:39 pm

Tgt Ion: 92 Resp: 145679

Ion	Ratio	Lower	Upper
92	100		
91	164.7	137.0	205.6

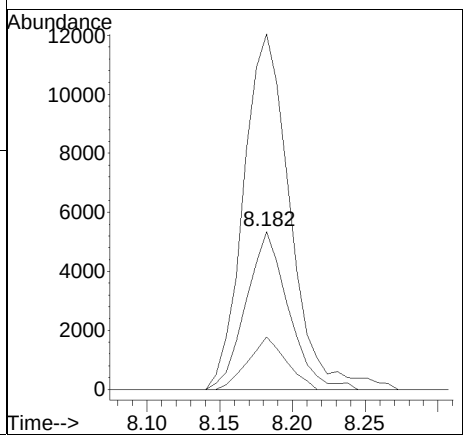


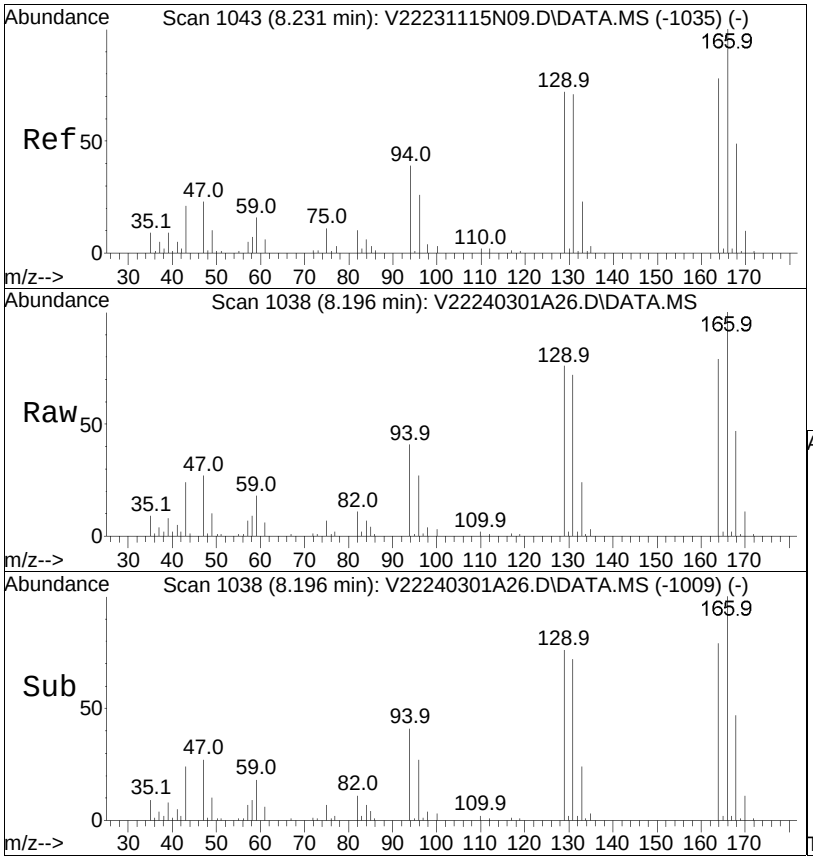


#65
4-Methyl-2-pentanone
Concen: 9.20 ug/L
RT: 8.182 min Scan# 1036
Delta R.T. -0.000 min
Lab File: V22240301A26.D
Acq: 01 Mar 2024 06:39 pm

Tgt Ion: 58 Resp: 10860

Ion	Ratio	Lower	Upper
58	100		
100	29.9	36.2	54.4#
43	247.3	181.8	272.8

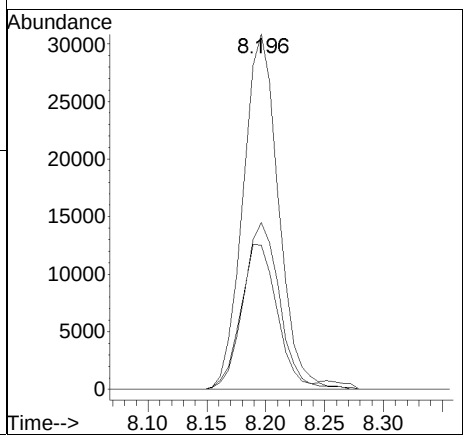


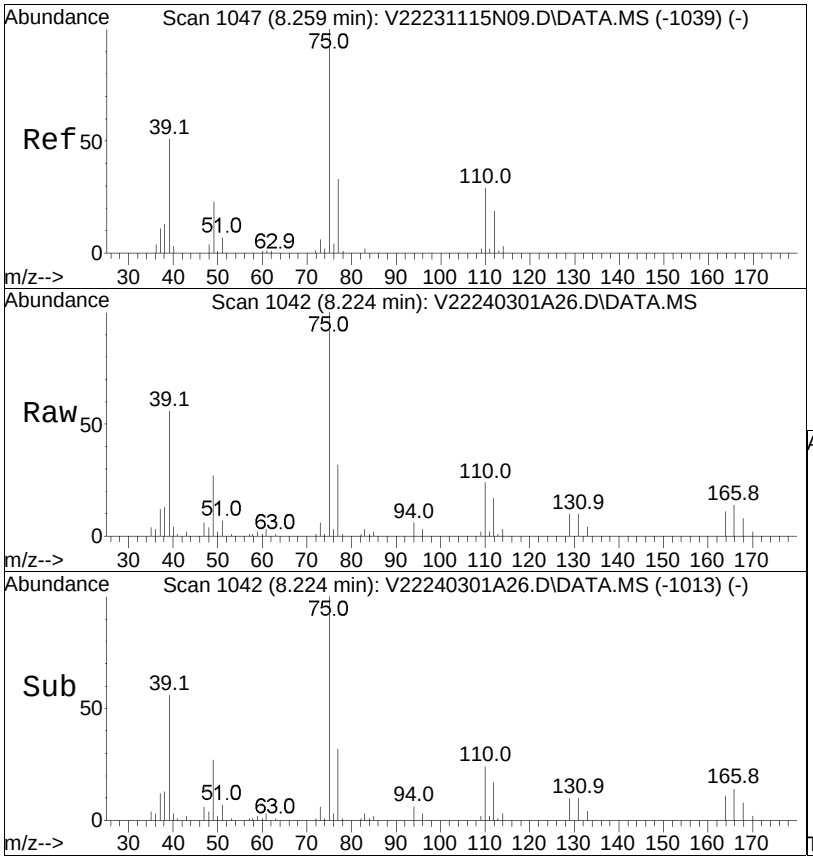


#66
Tetrachloroethene
Concen: 9.97 ug/L
RT: 8.196 min Scan# 1038
Delta R.T. -0.000 min
Lab File: V22240301A26.D
Acq: 01 Mar 2024 06:39 pm

Tgt Ion:166 Resp: 65402

Ion	Ratio	Lower	Upper
166	100		
168	47.4	27.8	67.8
94	42.1	16.7	56.7

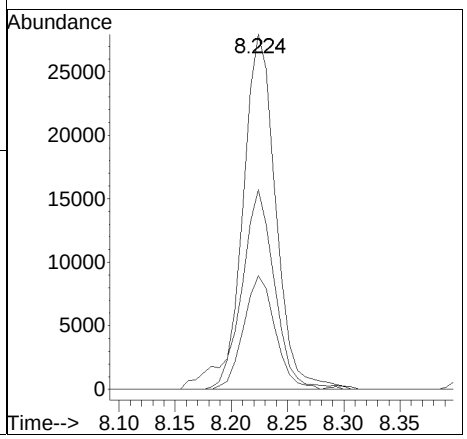


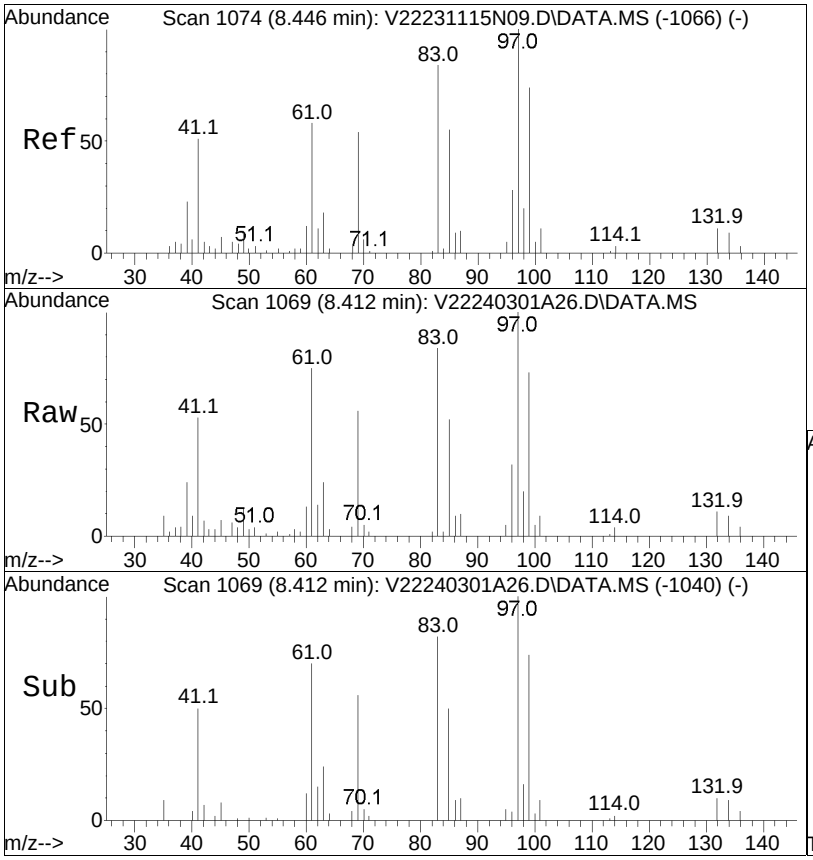


#68
trans-1,3-Dichloropropene
Concen: 7.56 ug/L
RT: 8.224 min Scan# 1042
Delta R.T. -0.000 min
Lab File: V22240301A26.D
Acq: 01 Mar 2024 06:39 pm

Tgt Ion: 75 Resp: 55931

Ion	Ratio	Lower	Upper
75	100		
77	31.4	11.9	51.9
39	60.6	27.4	67.4

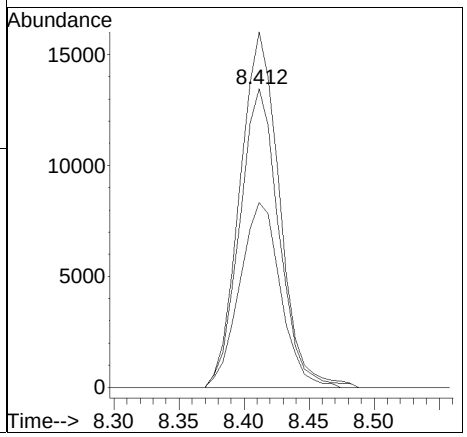


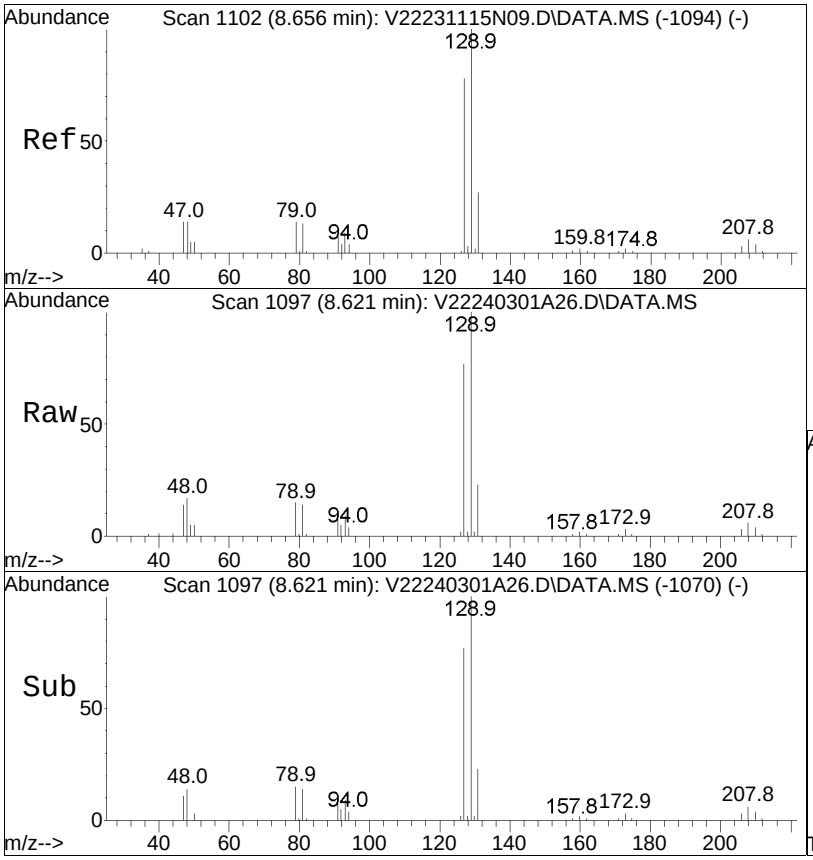


#71
1,1,2-Trichloroethane
Concen: 7.97 ug/L
RT: 8.412 min Scan# 1069
Delta R.T. -0.000 min
Lab File: V22240301A26.D
Acq: 01 Mar 2024 06:39 pm

Tgt Ion: 83 Resp: 28312

Ion	Ratio	Lower	Upper
83	100		
97	119.7	103.4	143.4
85	64.4	47.9	87.9

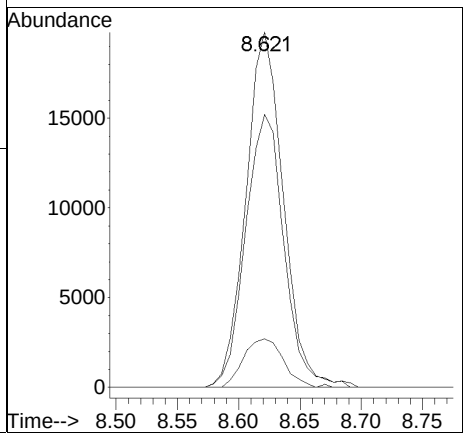


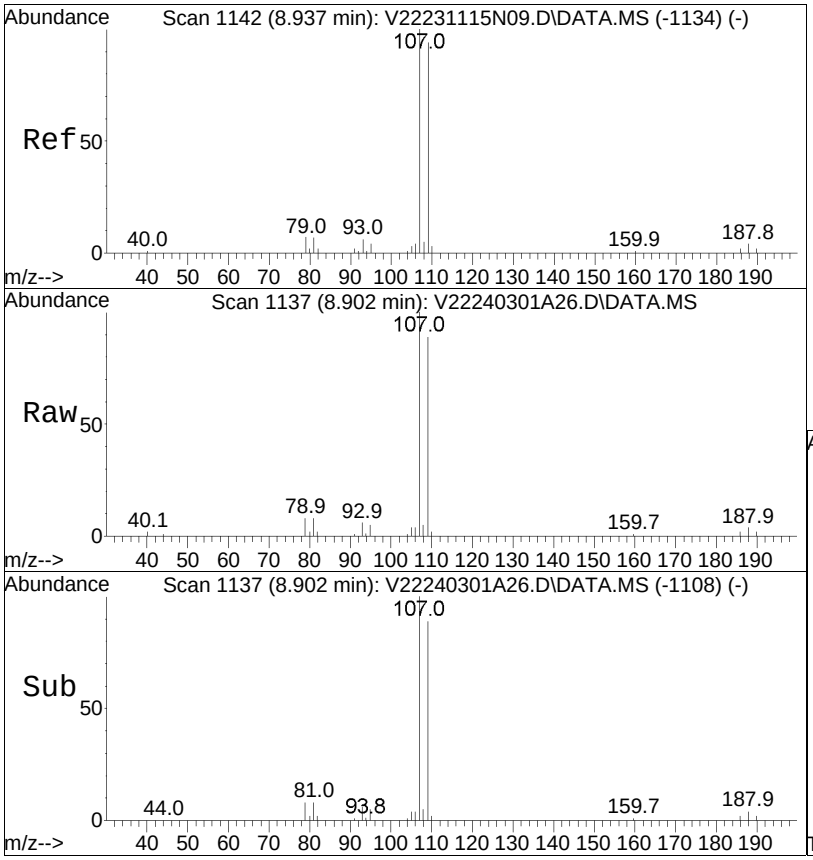


#72
Chlorodibromomethane
Concen: 7.42 ug/L
RT: 8.621 min Scan# 1097
Delta R.T. -0.000 min
Lab File: V22240301A26.D
Acq: 01 Mar 2024 06:39 pm

Tgt Ion:129 Resp: 42118

Ion	Ratio	Lower	Upper
129	100		
81	14.7	0.0	33.8
127	79.1	57.1	97.1

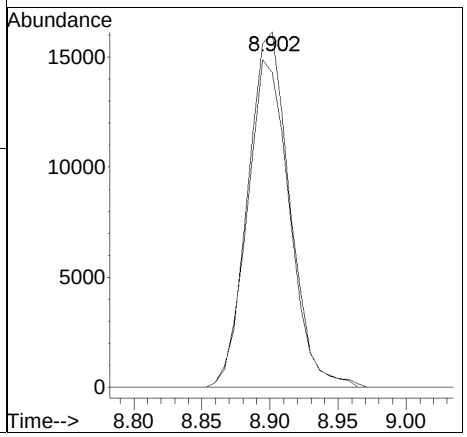


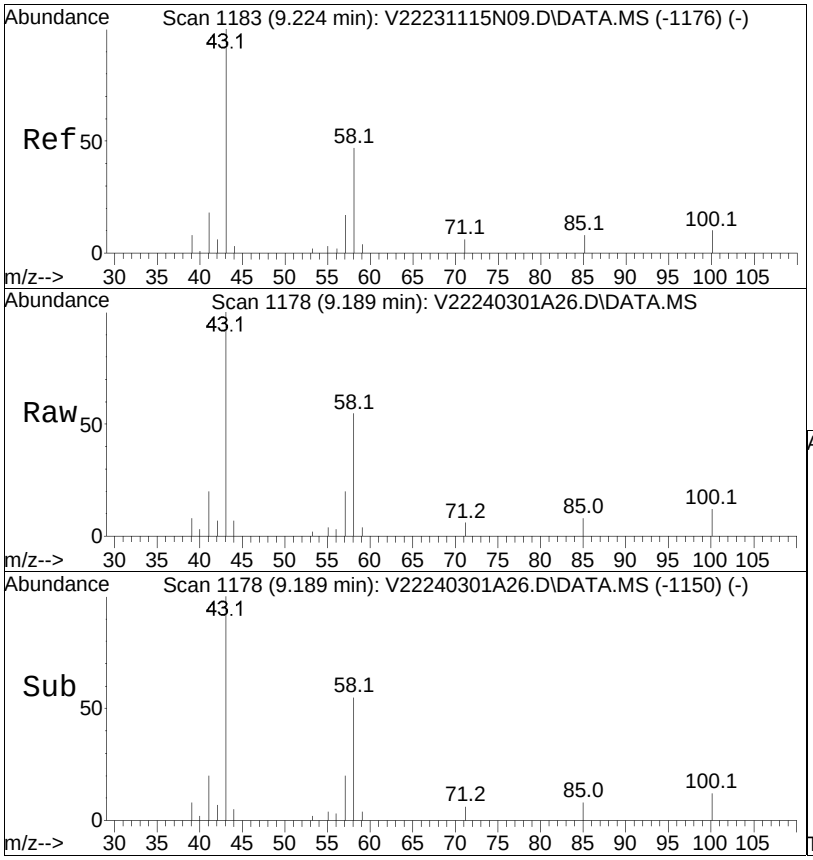


#74
1,2-Dibromoethane
Concen: 8.50 ug/L
RT: 8.902 min Scan# 1137
Delta R.T. -0.000 min
Lab File: V22240301A26.D
Acq: 01 Mar 2024 06:39 pm

Tgt Ion:107 Resp: 34563

Ion	Ratio	Lower	Upper
107	100		
109	93.4	75.1	112.7

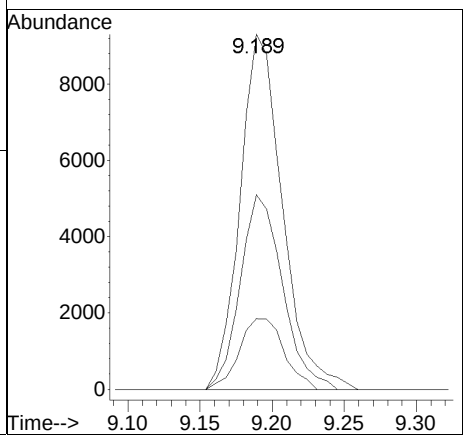


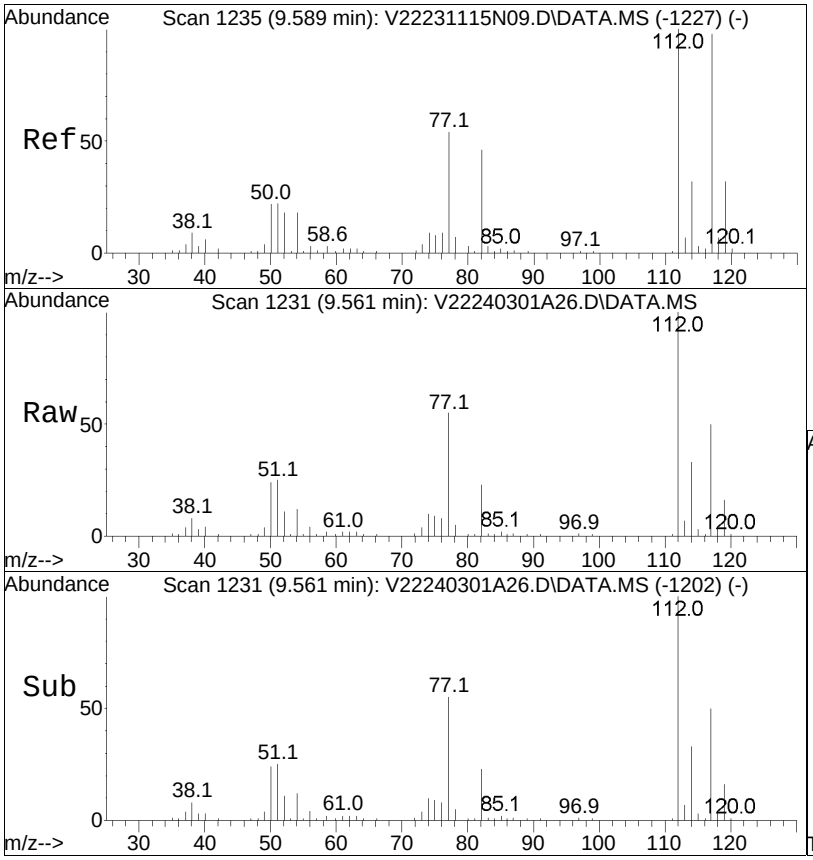


#76
2-Hexanone
Concen: 8.95 ug/L
RT: 9.189 min Scan# 1178
Delta R.T. -0.007 min
Lab File: V22240301A26.D
Acq: 01 Mar 2024 06:39 pm

Tgt Ion: 43 Resp: 19057

Ion	Ratio	Lower	Upper
43	100		
58	54.7	47.6	71.4
57	21.0	16.6	24.8

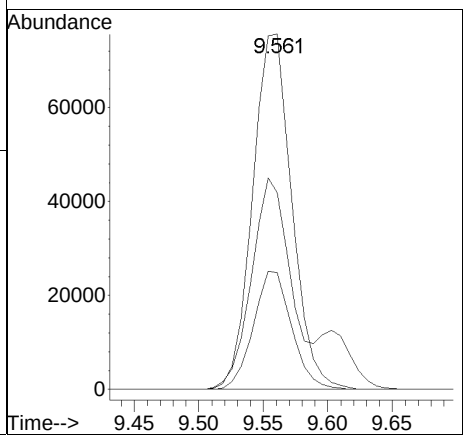


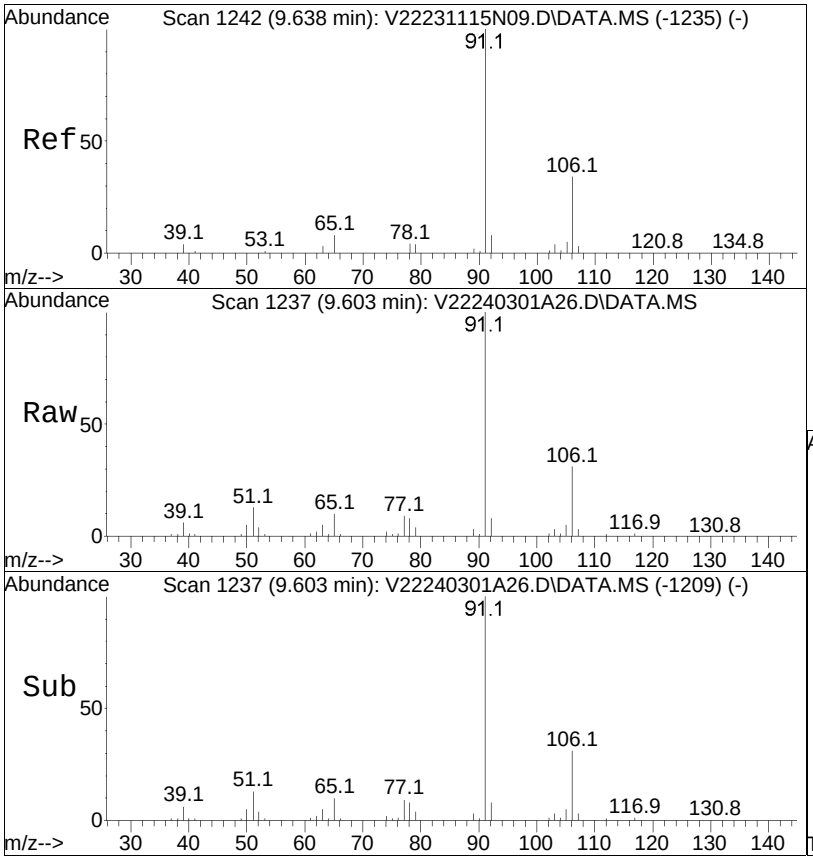


#77
Chlorobenzene
Concen: 8.93 ug/L
RT: 9.561 min Scan# 1231
Delta R.T. -0.000 min
Lab File: V22240301A26.D
Acq: 01 Mar 2024 06:39 pm

Tgt Ion:112 Resp: 160070

Ion	Ratio	Lower	Upper
112	100		
77	60.1	55.4	83.0
114	32.4	26.2	39.4

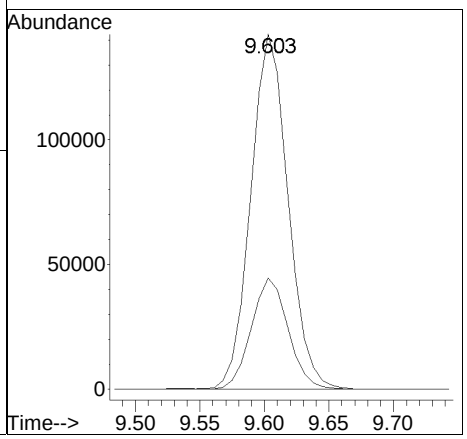


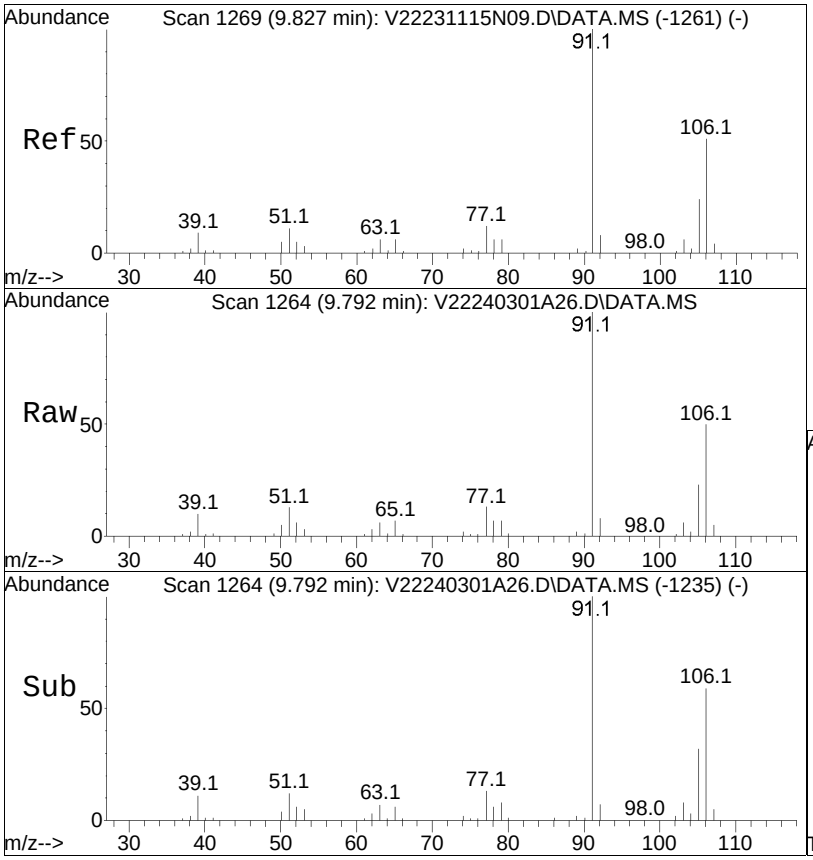


#78
Ethylbenzene
Concen: 9.52 ug/L
RT: 9.603 min Scan# 1237
Delta R.T. -0.007 min
Lab File: V22240301A26.D
Acq: 01 Mar 2024 06:39 pm

Tgt Ion: 91 Resp: 286135

Ion	Ratio	Lower	Upper
91	100		
106	31.1	25.8	38.6

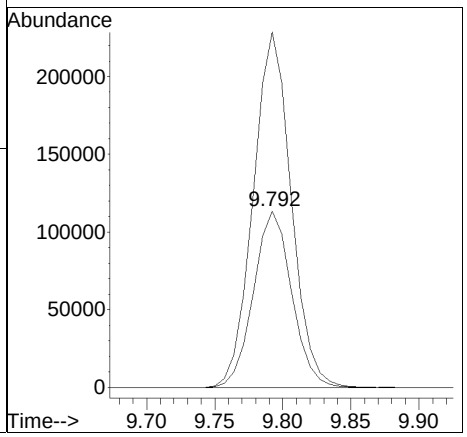


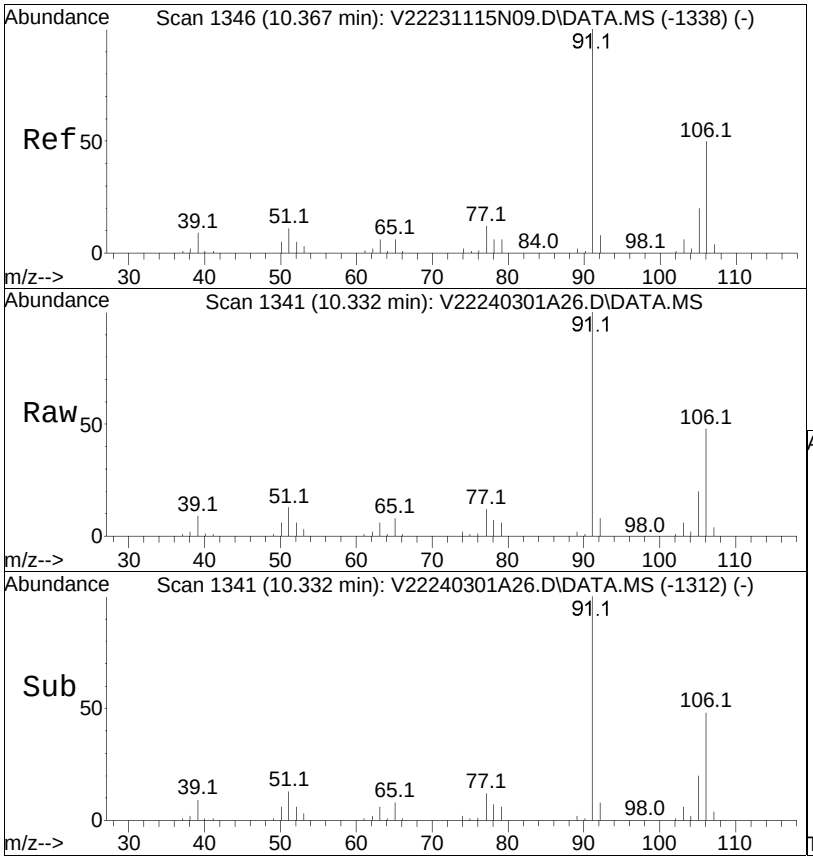


#80
p/m Xylene
Concen: 18.53 ug/L
RT: 9.792 min Scan# 1264
Delta R.T. -0.000 min
Lab File: V22240301A26.D
Acq: 01 Mar 2024 06:39 pm

Tgt Ion:106 Resp: 220931

Ion	Ratio	Lower	Upper
106	100		
91	200.5	156.0	234.0

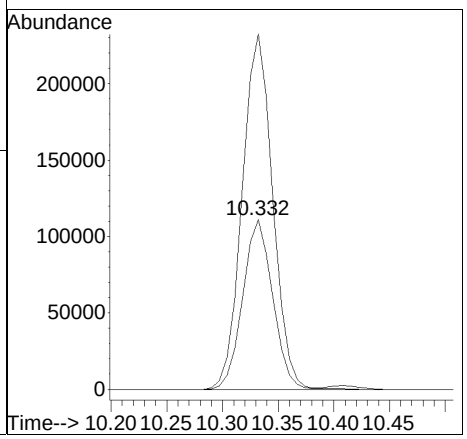


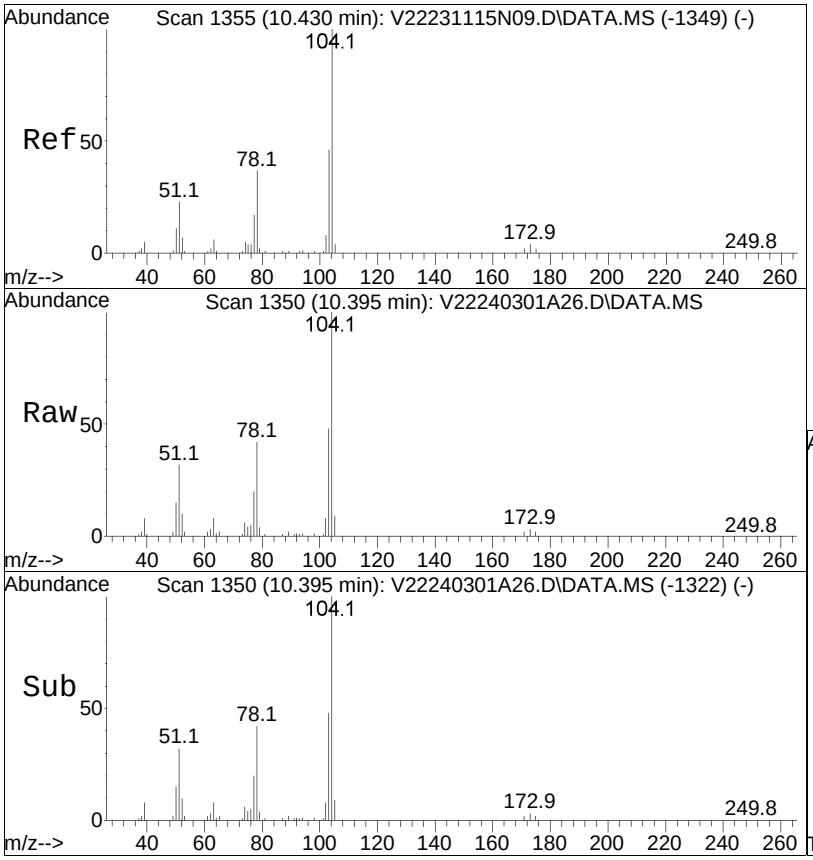


#81
o Xylene
Concen: 18.12 ug/L
RT: 10.332 min Scan# 1341
Delta R.T. -0.000 min
Lab File: V22240301A26.D
Acq: 01 Mar 2024 06:39 pm

Tgt Ion:106 Resp: 208093

Ion	Ratio	Lower	Upper
106	100		
91	212.1	164.0	246.0

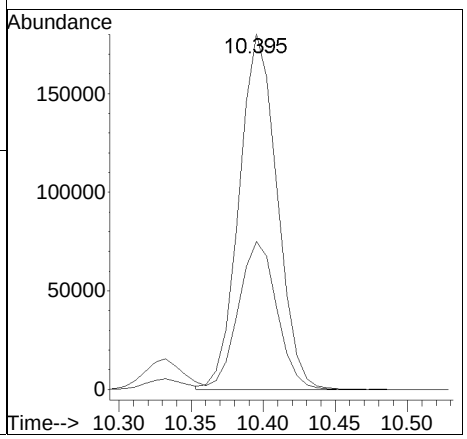


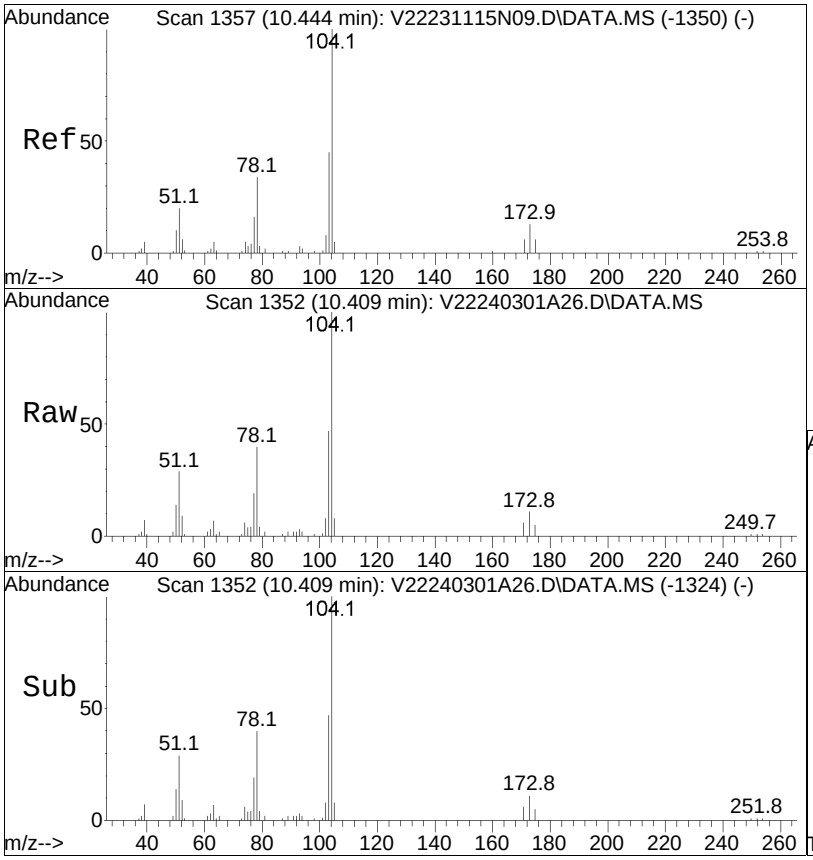


#82
Styrene
Concen: 17.83 ug/L
RT: 10.395 min Scan# 1350
Delta R.T. -0.007 min
Lab File: V22240301A26.D
Acq: 01 Mar 2024 06:39 pm

Tgt Ion:104 Resp: 329927

Ion	Ratio	Lower	Upper
104	100		
78	42.1	32.1	48.1

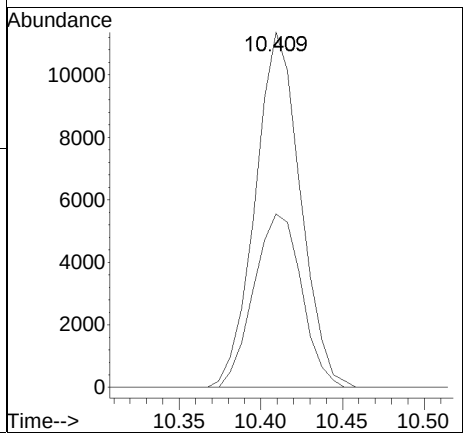


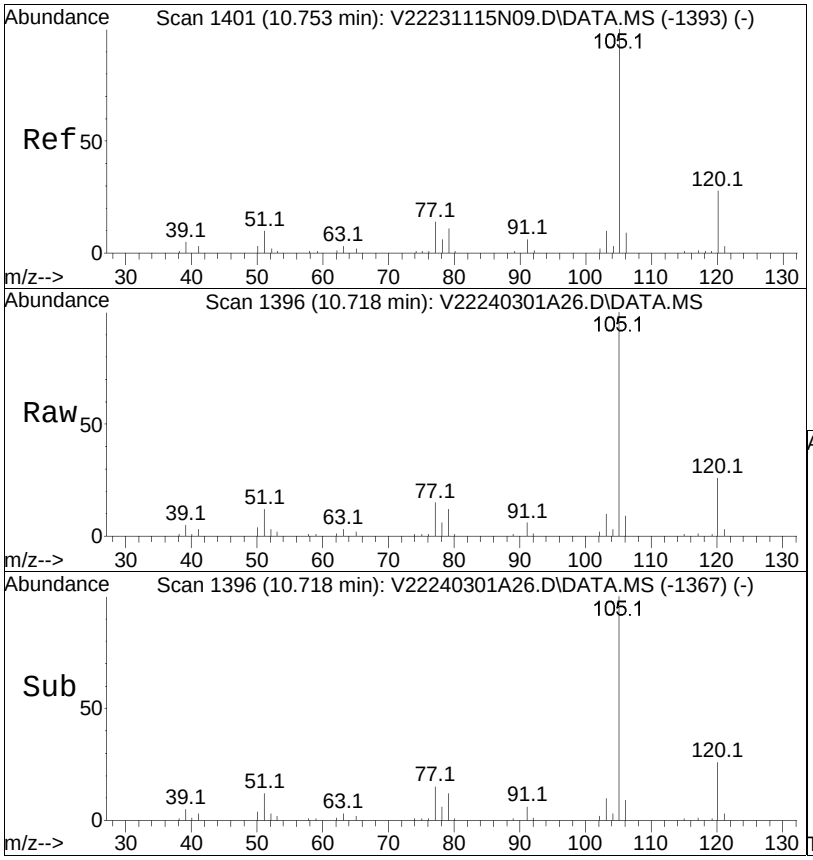


#84
Bromoform
Concen: 7.35 ug/L
RT: 10.409 min Scan# 1352
Delta R.T. -0.007 min
Lab File: V22240301A26.D
Acq: 01 Mar 2024 06:39 pm

Tgt Ion:173 Resp: 21906

Ion	Ratio	Lower	Upper
173	100		
175	51.5	29.3	69.3

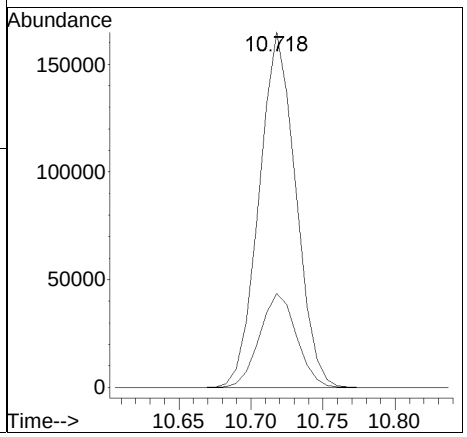


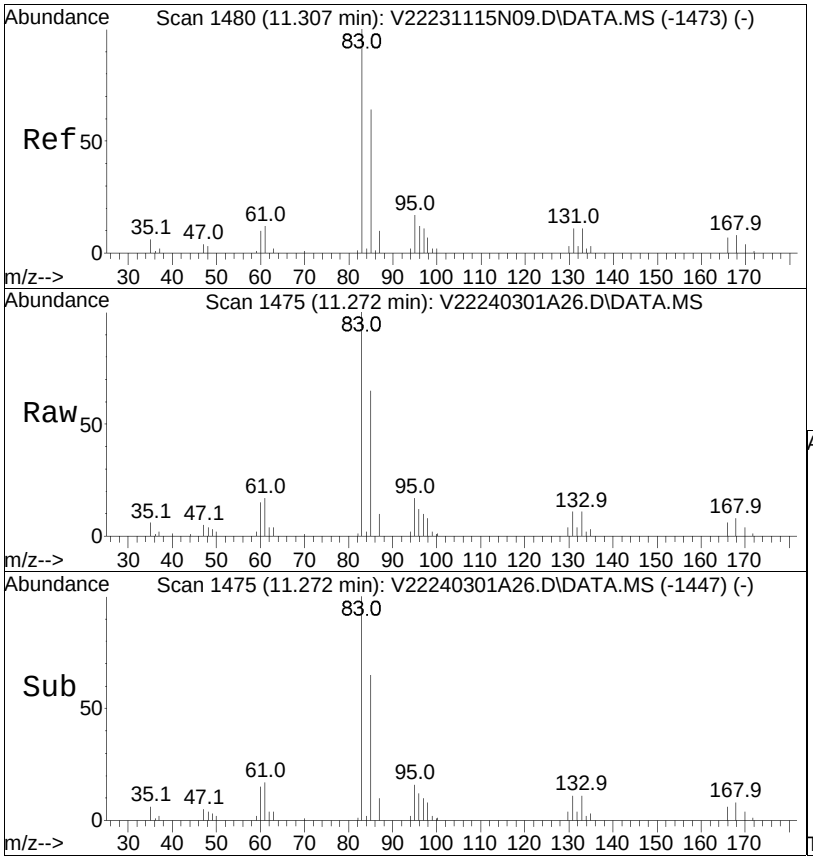


#86
Isopropylbenzene
Concen: 9.39 ug/L
RT: 10.718 min Scan# 1396
Delta R.T. -0.000 min
Lab File: V22240301A26.D
Acq: 01 Mar 2024 06:39 pm

Tgt Ion:105 Resp: 291063

Ion	Ratio	Lower	Upper
105	100		
120	26.6	7.7	47.7

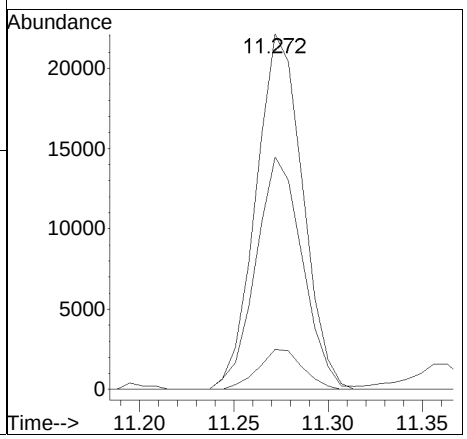


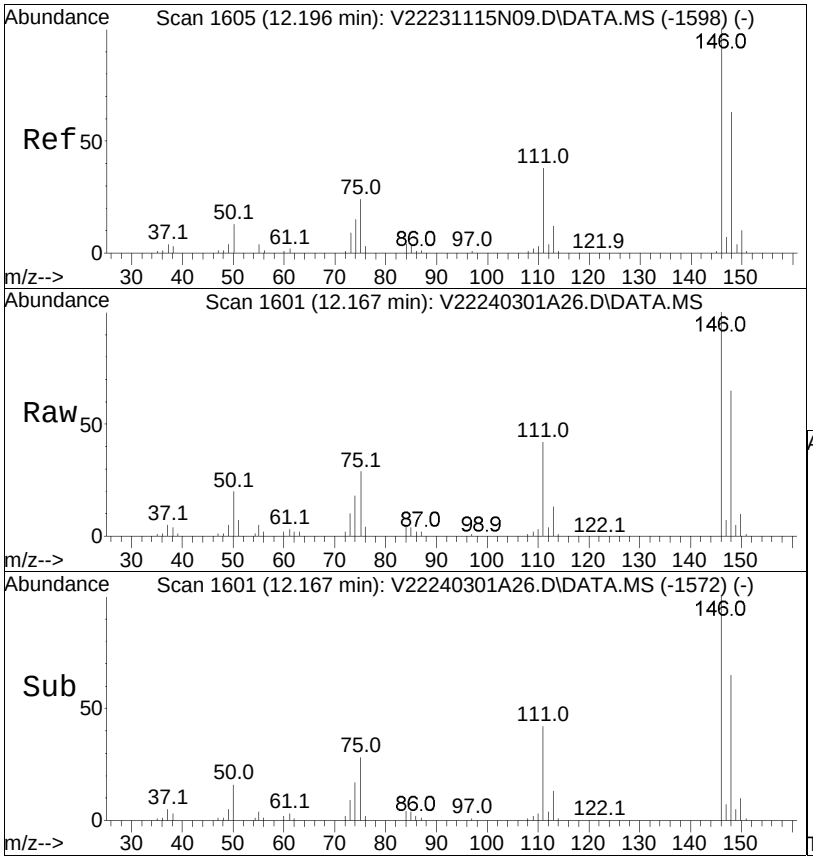


#91
1,1,2,2-Tetrachloroethane
Concen: 9.18 ug/L
RT: 11.272 min Scan# 1475
Delta R.T. -0.007 min
Lab File: V22240301A26.D
Acq: 01 Mar 2024 06:39 pm

Tgt Ion: 83 Resp: 38186

Ion	Ratio	Lower	Upper
83	100		
131	10.8	0.0	30.8
85	65.6	45.4	85.4

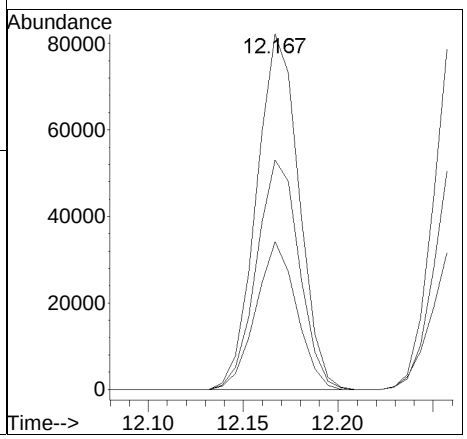


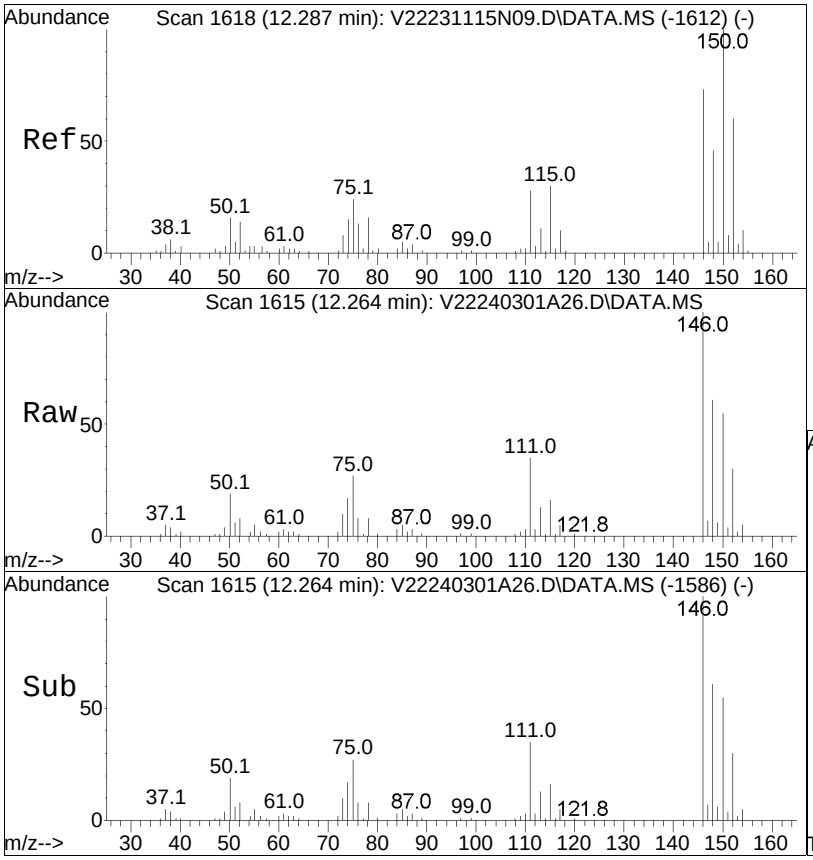


#104
1,3-Dichlorobenzene
Concen: 8.69 ug/L
RT: 12.167 min Scan# 1601
Delta R.T. -0.000 min
Lab File: V22240301A26.D
Acq: 01 Mar 2024 06:39 pm

Tgt Ion:146 Resp: 127962

Ion	Ratio	Lower	Upper
146	100		
111	39.8	24.0	49.8
148	64.8	41.8	86.8

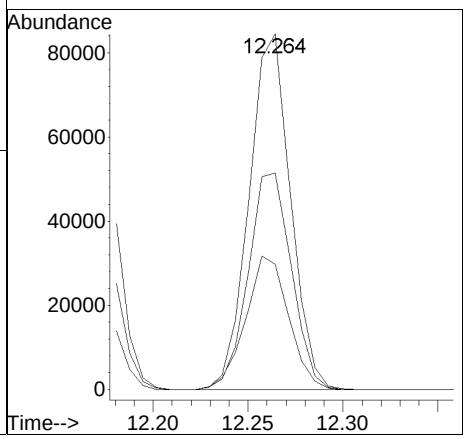


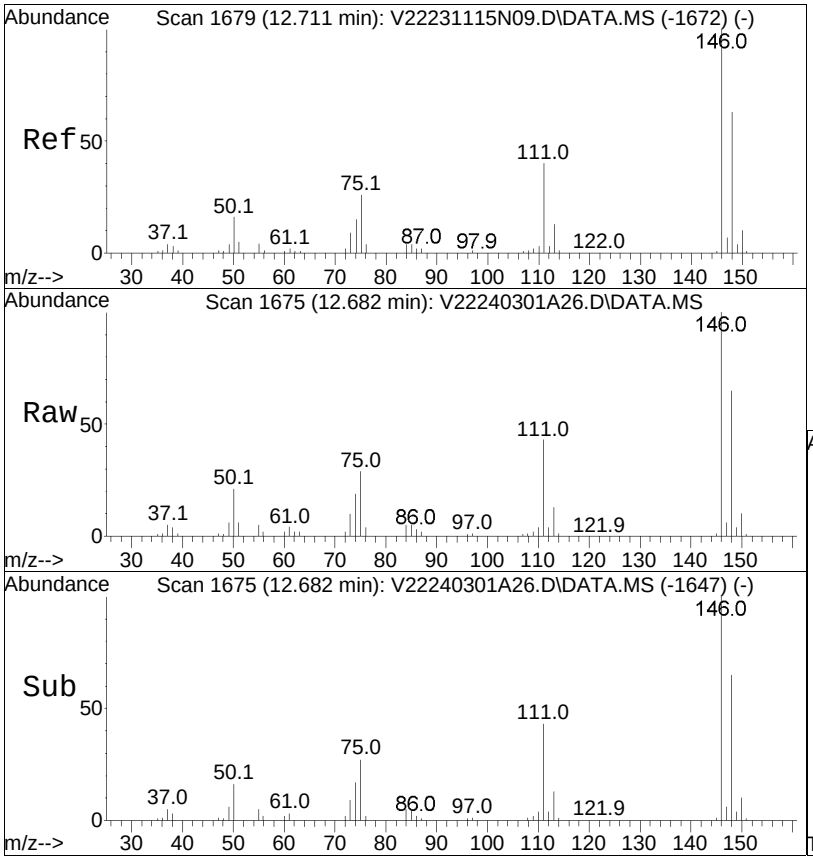


#105
1,4-Dichlorobenzene
Concen: 8.87 ug/L
RT: 12.264 min Scan# 1615
Delta R.T. -0.000 min
Lab File: V22240301A26.D
Acq: 01 Mar 2024 06:39 pm

Tgt Ion:146 Resp: 128120

Ion	Ratio	Lower	Upper
146	100		
111	39.0	28.9	43.3
148	63.5	51.4	77.2

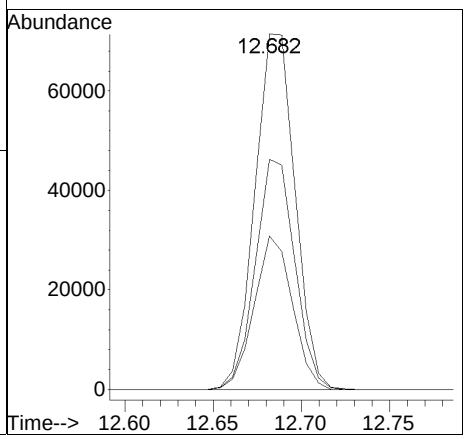


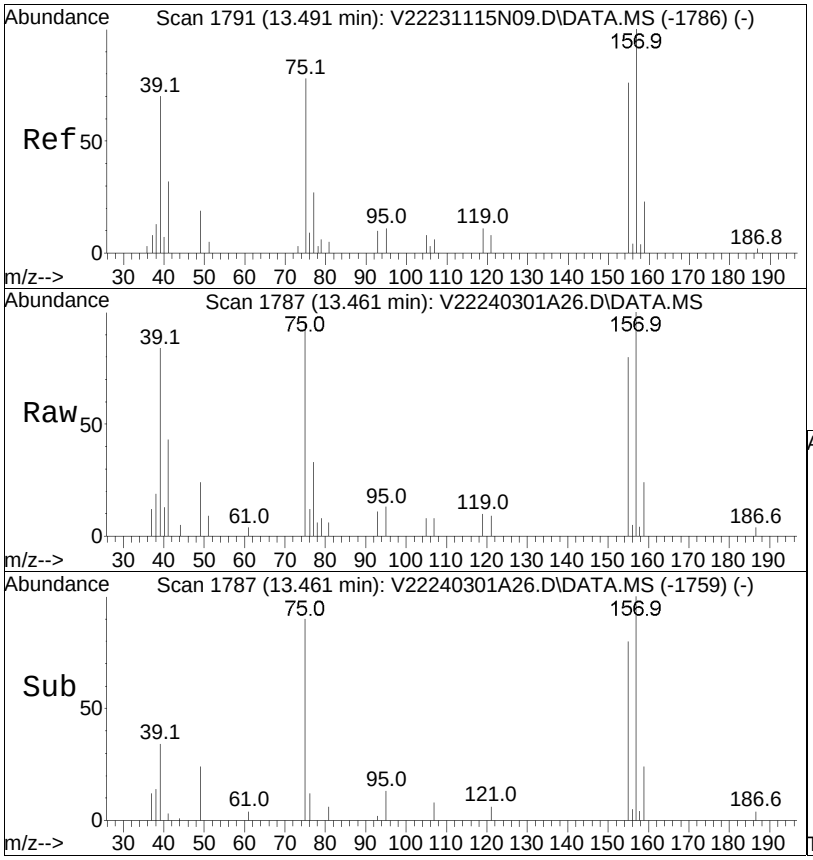


#108
1,2-Dichlorobenzene
Concen: 8.68 ug/L
RT: 12.682 min Scan# 1675
Delta R.T. -0.007 min
Lab File: V22240301A26.D
Acq: 01 Mar 2024 06:39 pm

Tgt Ion:146 Resp: 113289

Ion	Ratio	Lower	Upper
146	100		
111	41.1	24.8	51.6
148	63.4	42.2	87.6

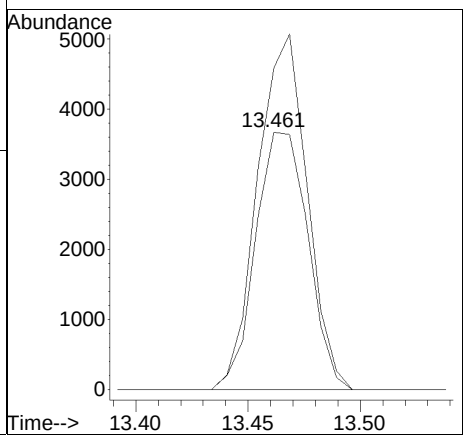


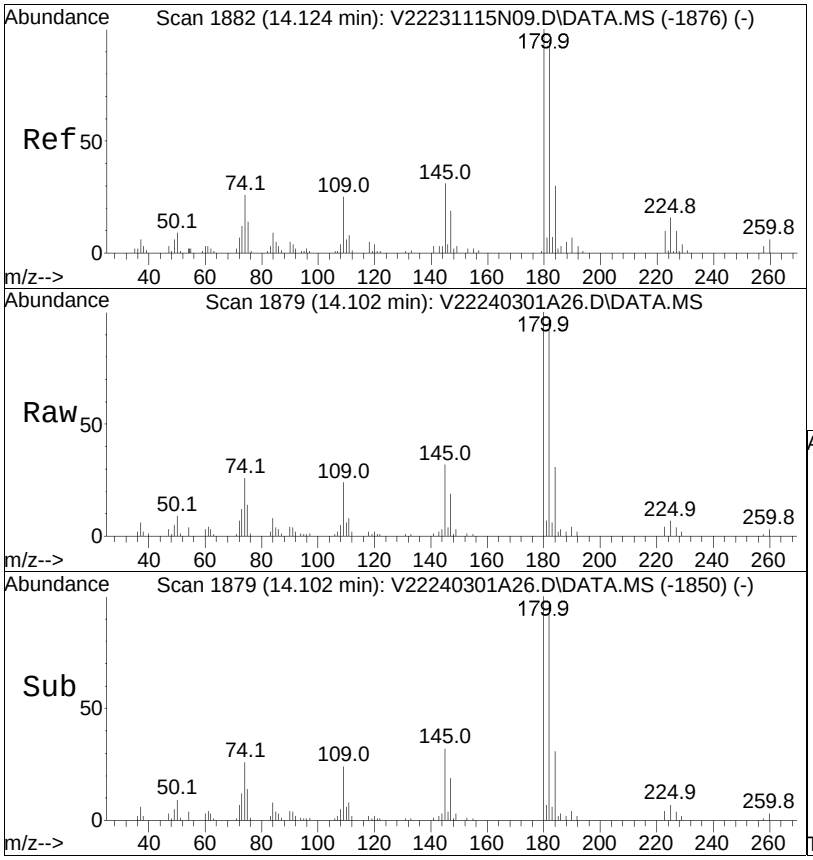


#110
1,2-Dibromo-3-chloropropane
Concen: 7.03 ug/L
RT: 13.461 min Scan# 1787
Delta R.T. -0.007 min
Lab File: V22240301A26.D
Acq: 01 Mar 2024 06:39 pm

Tgt Ion:155 Resp: 5959

Ion	Ratio	Lower	Upper
155	100		
157	130.4	102.3	153.5

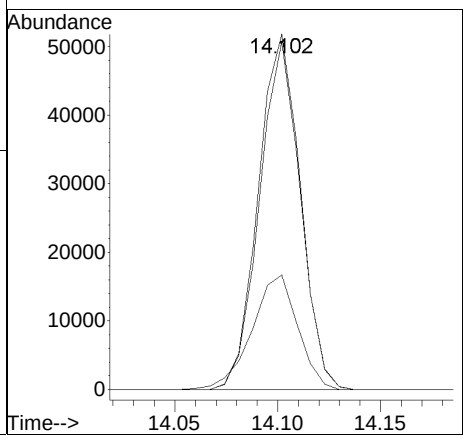


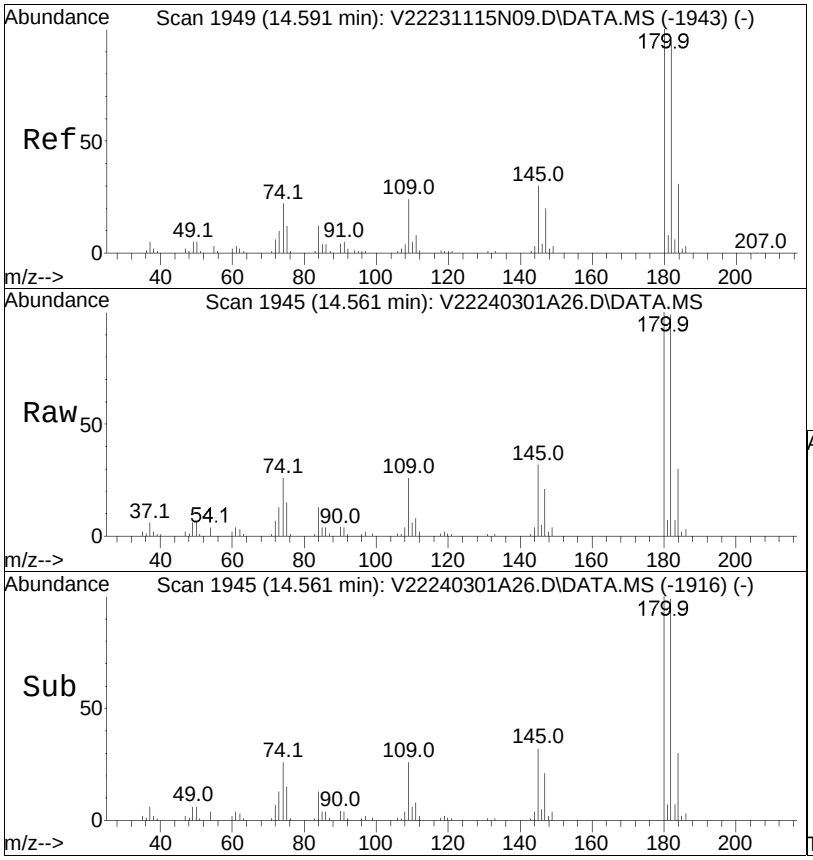


#113
1,2,4-Trichlorobenzene
Concen: 9.53 ug/L
RT: 14.102 min Scan# 1879
Delta R.T. -0.000 min
Lab File: V22240301A26.D
Acq: 01 Mar 2024 06:39 pm

Tgt Ion:180 Resp: 73482

Ion	Ratio	Lower	Upper
180	100		
182	94.9	76.6	114.8
145	35.1	25.5	38.3

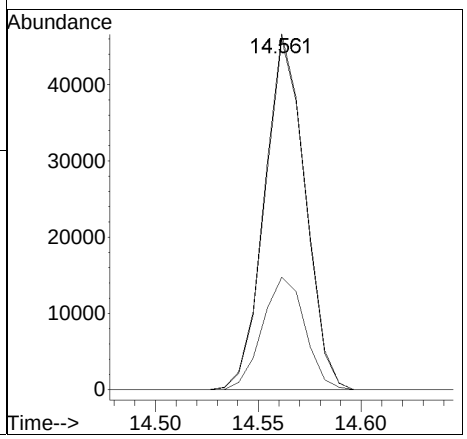




#115
1,2,3-Trichlorobenzene
Concen: 9.65 ug/L
RT: 14.561 min Scan# 1945
Delta R.T. -0.000 min
Lab File: V22240301A26.D
Acq: 01 Mar 2024 06:39 pm

Tgt Ion:180 Resp: 64088

Ion	Ratio	Lower	Upper
180	100		
182	97.5	76.0	114.0
145	32.9	23.8	35.8



Quantitation Report (QT Reviewed)

Data Path : K:\VOA122\2024\240301A\
Data File : V22240301A27.D
Acq On : 01 Mar 2024 07:03 pm
Operator : VOA122:MJV
Sample : WG1891888-7,31,10,10,,A2
Misc : WG1891888,ICAL20803
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Mar 04 11:08:05 2024
Quant Method : K:\VOA122\2024\240301A\V122_240122N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jan 24 07:06:18 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA122\2024\240301A\V22240301A01.D
Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	5.990	96	482419	10.000	ug/L	0.00
Standard Area 1 = 514325			Recovery =	93.80%		
62) Chlorobenzene-d5	9.533	117	401676	10.000	ug/L	0.00
Standard Area 1 = 441026			Recovery =	91.08%		
83) 1,4-Dichlorobenzene-d4	12.243	152	205662	10.000	ug/L	0.00
Standard Area 1 = 230262			Recovery =	89.32%		
System Monitoring Compounds						
38) Dibromofluoromethane	5.177	113	170977	10.077	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	100.77%		
46) 1,2-Dichloroethane-d4	5.701	65	170779	10.963	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	109.63%		
63) Toluene-d8	7.689	98	503472	10.050	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	100.50%		
87) 4-Bromofluorobenzene	11.033	95	189305	10.012	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	100.12%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.631	85	80517	10.240	ug/L	97
3) Chloromethane	1.821	50	139544	11.460	ug/L	98
4) Vinyl chloride	1.894	62	116037	11.477	ug/L	98
5) Bromomethane	2.202	94	31598	5.189	ug/L	97
6) Chloroethane	2.320	64	62410	11.092	ug/L	98
7) Trichlorofluoromethane	2.457	101	129689	11.970	ug/L	99
10) 1,1-Dichloroethene	2.949	96	78957	11.481	ug/L #	59
11) Carbon disulfide	2.975	76	248010	11.139	ug/L	99
12) Freon-113	2.988	101	75736	11.865	ug/L	96
15) Methylene chloride	3.493	84	82560	9.723	ug/L #	54
17) Acetone	3.526	43	15884	11.056	ug/L	100
18) trans-1,2-Dichloroethene	3.643	96	82440	10.554	ug/L #	70
19) Methyl acetate	3.650	43	32417	10.547	ug/L #	88
21) Methyl tert-butyl ether	3.742	73	120957	9.849	ug/L #	80
25) 1,1-Dichloroethane	4.227	63	182341	11.476	ug/L	93
30) cis-1,2-Dichloroethene	4.738	96	86874	9.935	ug/L #	69
32) Bromochloromethane	4.928	128	39447	9.841	ug/L #	61
33) Cyclohexane	4.941	56	202156	14.366	ug/L #	62
34) Chloroform	5.000	83	136697	9.801	ug/L #	95
36) Carbon tetrachloride	5.144	117	118185	11.031	ug/L	98

Data Path : K:\VOA122\2024\240301A\
Data File : V22240301A27.D
Acq On : 01 Mar 2024 07:03 pm
Operator : VOA122:MJV
Sample : WG1891888-7,31,10,10,,A2
Misc : WG1891888,ICAL20803
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Mar 04 11:08:05 2024
Quant Method : K:\VOA122\2024\240301A\V122_240122N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jan 24 07:06:18 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA122\2024\240301A\V22240301A01.D
Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
39) 1,1,1-Trichloroethane	5.210	97	133107	10.831	ug/L		93
41) 2-Butanone	5.289	43	18758	10.426	ug/L	#	42
44) Benzene	5.577	78	296769	10.498	ug/L	#	90
47) 1,2-Dichloroethane	5.774	62	79500	10.349	ug/L		97
50) Methyl cyclohexane	6.167	83	98691	10.479	ug/L	#	48
51) Trichloroethene	6.167	95	63244	9.625	ug/L		99
54) 1,2-Dichloropropane	6.716	63	68284	10.696	ug/L		93
57) Bromodichloromethane	6.778	83	75716	9.158	ug/L		100
60) 1,4-Dioxane	6.987	88	15759	405.785	ug/L	#	52
61) cis-1,3-Dichloropropene	7.473	75	74495	8.626	ug/L	#	88
64) Toluene	7.751	92	157958	10.186	ug/L		98
65) 4-Methyl-2-pentanone	8.182	58	11292	9.547	ug/L	#	82
66) Tetrachloroethene	8.196	166	75912	11.551	ug/L		96
68) trans-1,3-Dichloropropene	8.224	75	60879	8.215	ug/L		87
71) 1,1,2-Trichloroethane	8.412	83	30258	8.505	ug/L		97
72) Chlorodibromomethane	8.621	129	46443	8.167	ug/L		97
74) 1,2-Dibromoethane	8.895	107	36136	8.864	ug/L		98
76) 2-Hexanone	9.189	43	20696	9.702	ug/L		93
77) Chlorobenzene	9.554	112	175917	9.789	ug/L		92
78) Ethylbenzene	9.603	91	322356	10.705	ug/L		98
80) p/m Xylene	9.792	106	249860	20.916	ug/L		98
81) o Xylene	10.332	106	232947	20.242	ug/L		97
82) Styrene	10.395	104	366210	19.750	ug/L		97
84) Bromoform	10.409	173	23728	7.938	ug/L		99
86) Isopropylbenzene	10.718	105	334097	10.754	ug/L		98
91) 1,1,2,2-Tetrachloroethane	11.272	83	39749	9.530	ug/L		98
104) 1,3-Dichlorobenzene	12.167	146	146031	9.888	ug/L		98
105) 1,4-Dichlorobenzene	12.264	146	140547	9.704	ug/L		97
108) 1,2-Dichlorobenzene	12.682	146	125366	9.585	ug/L		97
110) 1,2-Dibromo-3-chloropr...	13.468	155	6413	7.545	ug/L		94
113) 1,2,4-Trichlorobenzene	14.102	180	81023	10.479	ug/L		98
115) 1,2,3-Trichlorobenzene	14.561	180	70469	10.589	ug/L		98

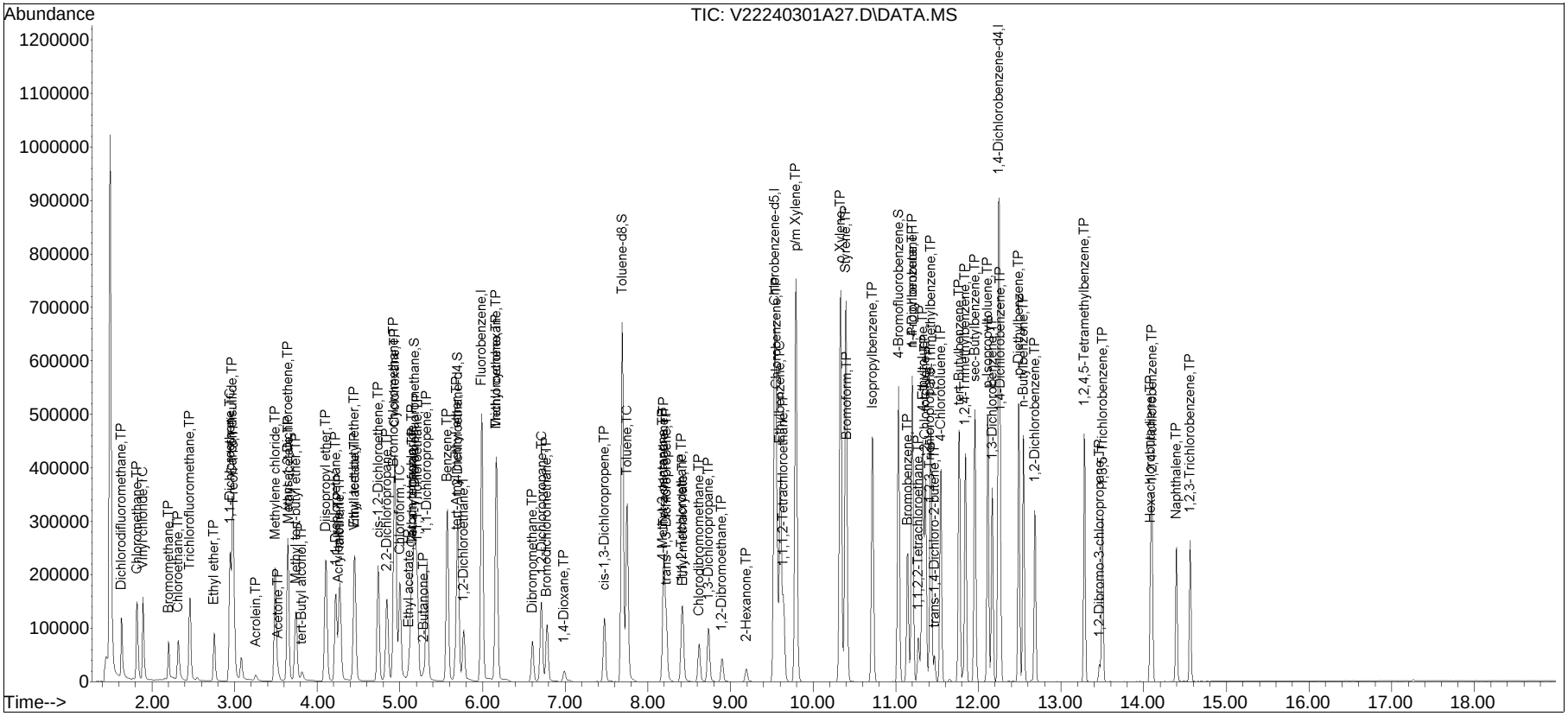
(#) = qualifier out of range (m) = manual integration (+) = signals summed

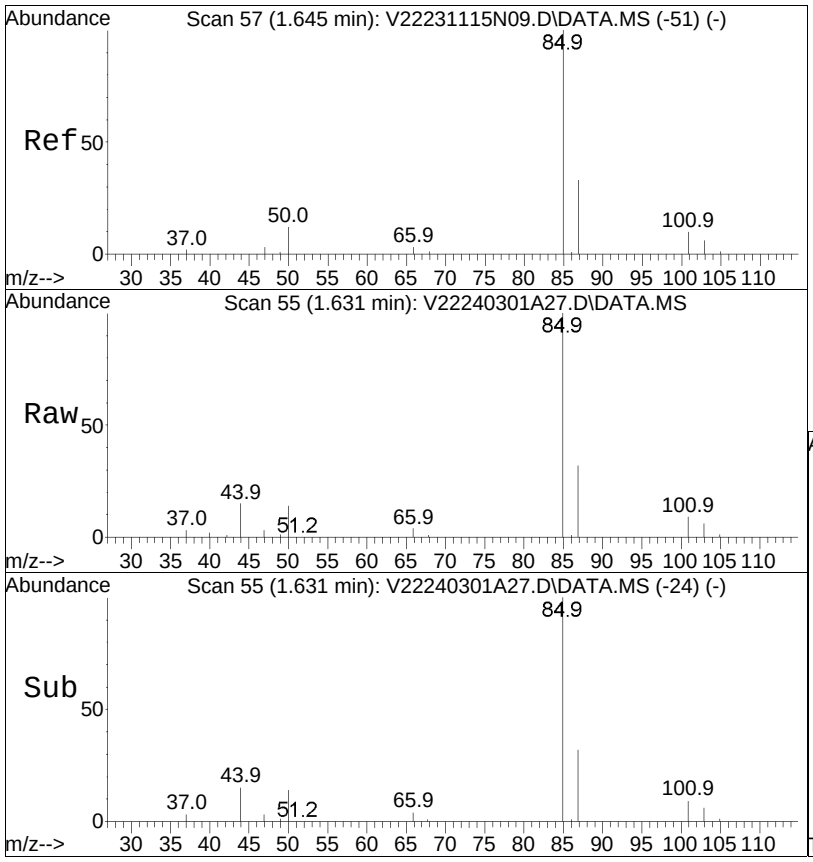
Quantitation Report (QT Reviewed)

Data Path : K:\VOA122\2024\240301A\
Data File : V22240301A27.D
Acq On : 01 Mar 2024 07:03 pm
Operator : VOA122:MJV
Sample : WG1891888-7,31,10,10,,A2
Misc : WG1891888,ICAL20803
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Mar 04 11:08:05 2024
Quant Method : K:\VOA122\2024\240301A\V122_240122N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jan 24 07:06:18 2024
Response via : Initial Calibration

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

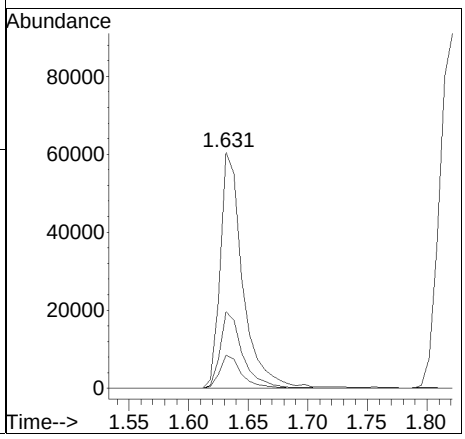


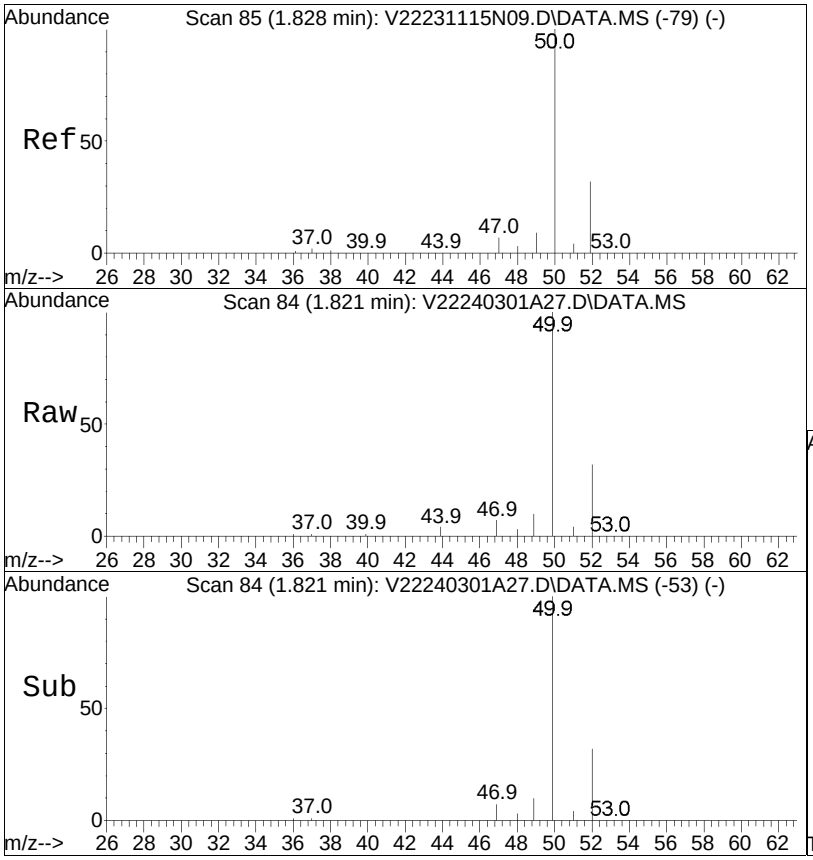


#2
Dichlorodifluoromethane
Concen: 10.24 ug/L
RT: 1.631 min Scan# 55
Delta R.T. -0.000 min
Lab File: V22240301A27.D
Acq: 01 Mar 2024 07:03 pm

Tgt Ion: 85 Resp: 80517

Ion	Ratio	Lower	Upper
85	100		
87	32.3	20.7	42.9
50	13.7	6.8	14.2

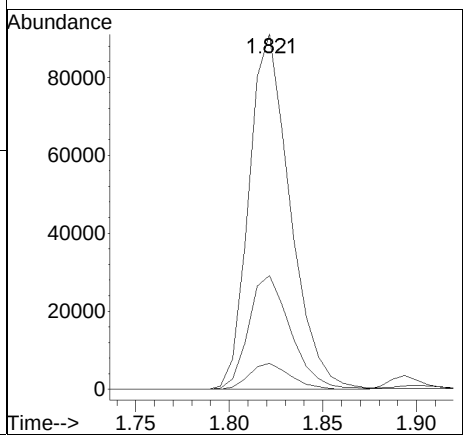


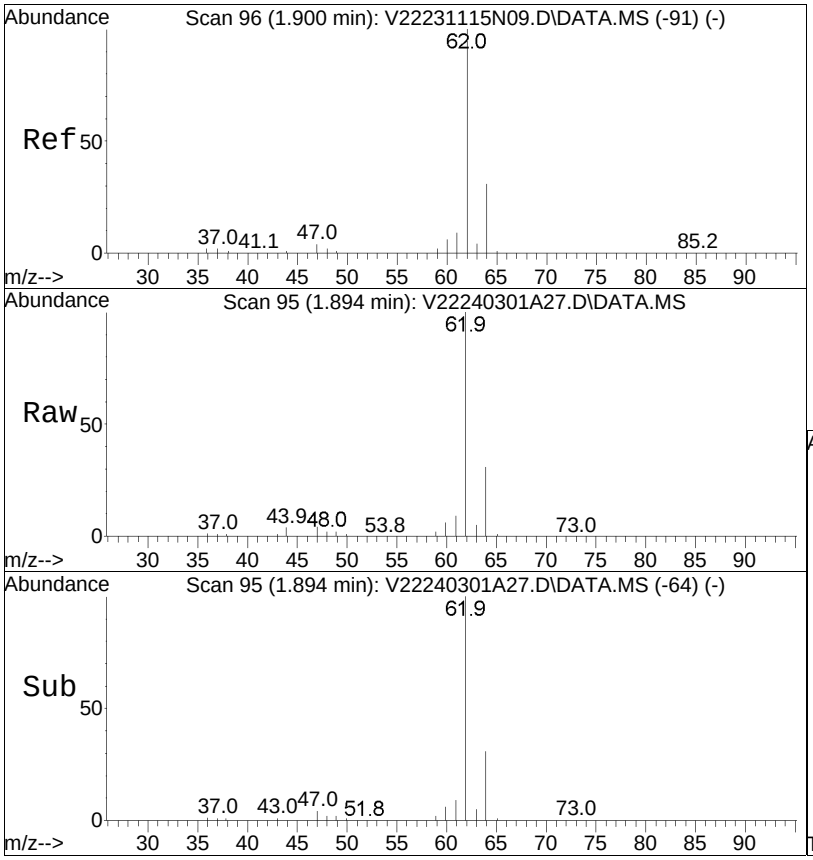


#3
Chloromethane
Concen: 11.46 ug/L
RT: 1.821 min Scan# 84
Delta R.T. -0.000 min
Lab File: V22240301A27.D
Acq: 01 Mar 2024 07:03 pm

Tgt Ion: 50 Resp: 139544

Ion	Ratio	Lower	Upper
50	100		
52	32.8	12.8	52.8
47	7.3	0.0	30.0

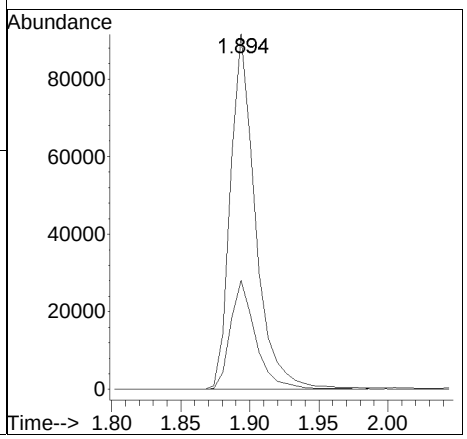


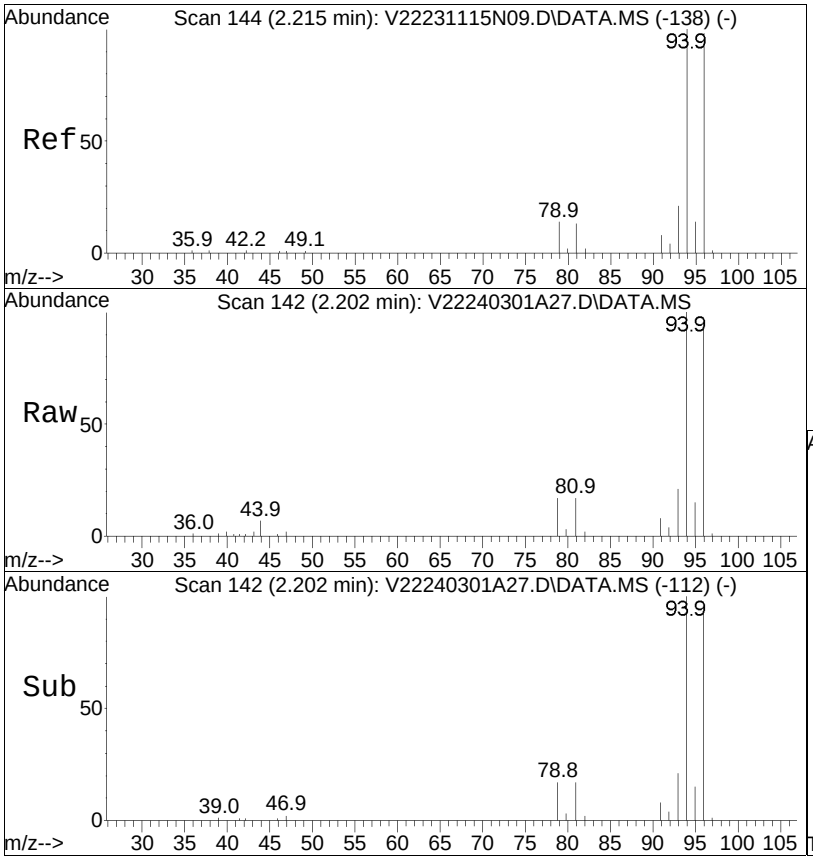


#4
Vinyl chloride
Concen: 11.48 ug/L
RT: 1.894 min Scan# 95
Delta R.T. -0.000 min
Lab File: V22240301A27.D
Acq: 01 Mar 2024 07:03 pm

Tgt Ion: 62 Resp: 116037

Ion	Ratio	Lower	Upper
62	100		
64	31.0	12.0	52.0

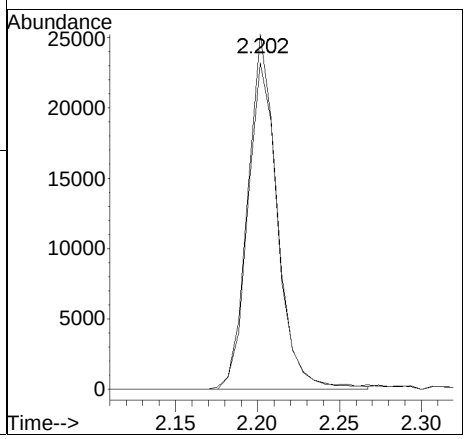


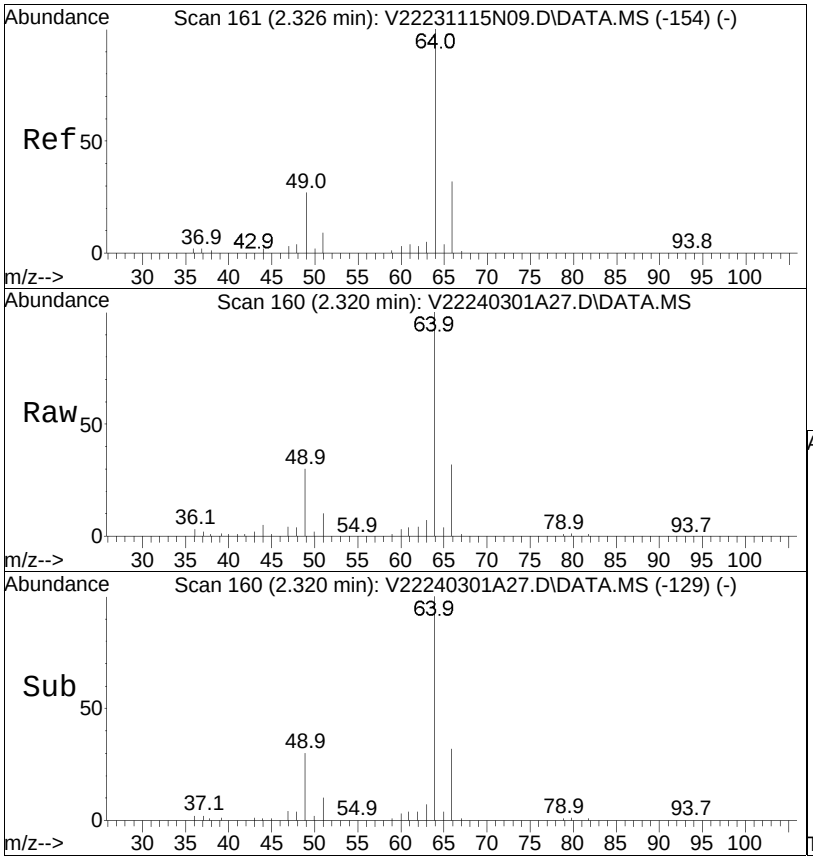


#5
Bromomethane
Concen: 5.19 ug/L
RT: 2.202 min Scan# 142
Delta R.T. -0.007 min
Lab File: V22240301A27.D
Acq: 01 Mar 2024 07:03 pm

Tgt Ion: 94 Resp: 31598

Ion	Ratio	Lower	Upper
94	100		
96	95.6	72.8	112.8

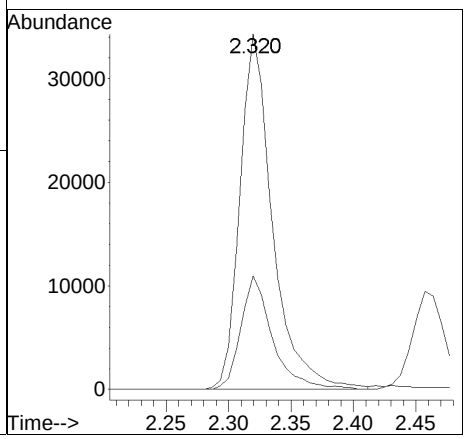


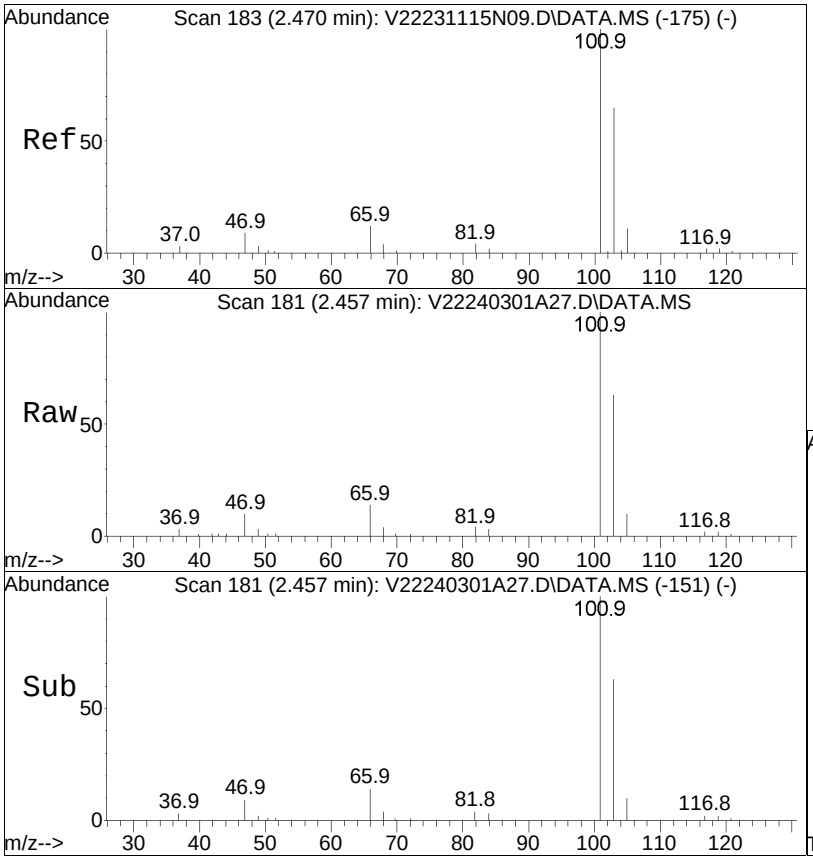


#6
Chloroethane
Concen: 11.09 ug/L
RT: 2.320 min Scan# 160
Delta R.T. -0.000 min
Lab File: V22240301A27.D
Acq: 01 Mar 2024 07:03 pm

Tgt Ion: 64 Resp: 62410

Ion	Ratio	Lower	Upper
64	100		
66	31.0	12.2	52.2

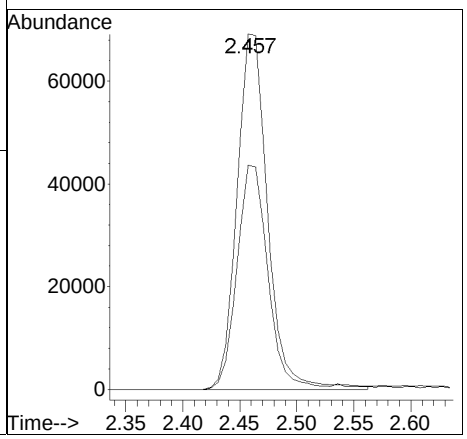


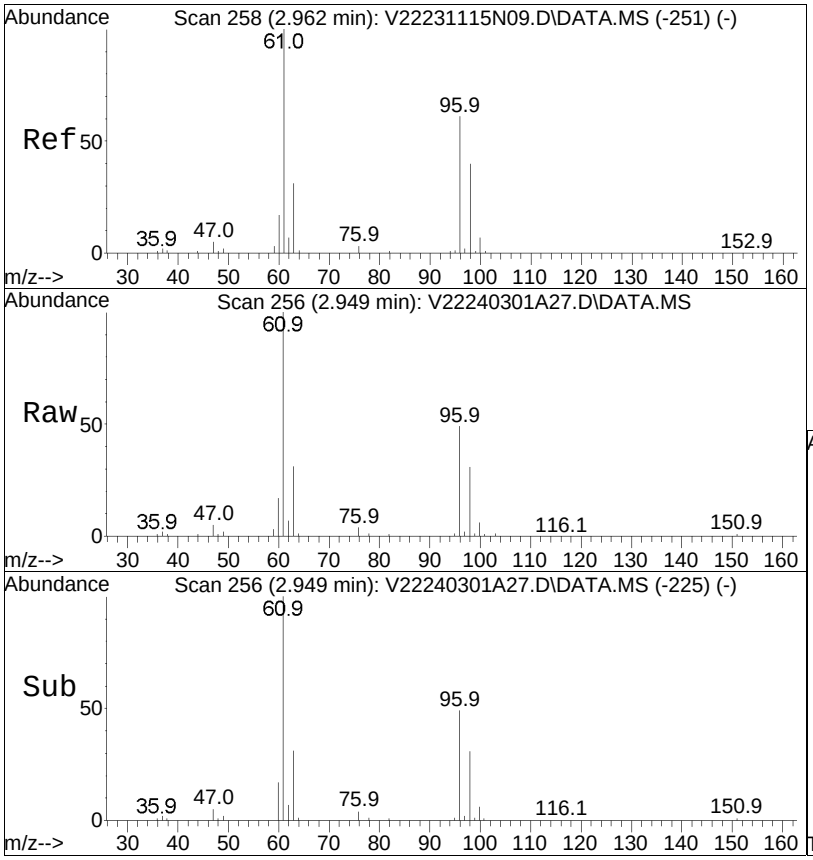


#7
Trichlorofluoromethane
Concen: 11.97 ug/L
RT: 2.457 min Scan# 181
Delta R.T. -0.007 min
Lab File: V22240301A27.D
Acq: 01 Mar 2024 07:03 pm

Tgt Ion:101 Resp: 129689

Ion	Ratio	Lower	Upper
101	100		
103	63.5	51.6	77.4

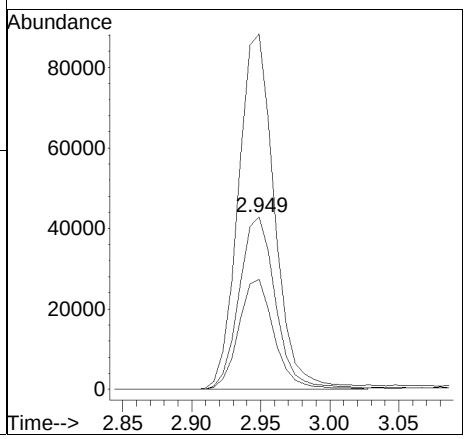


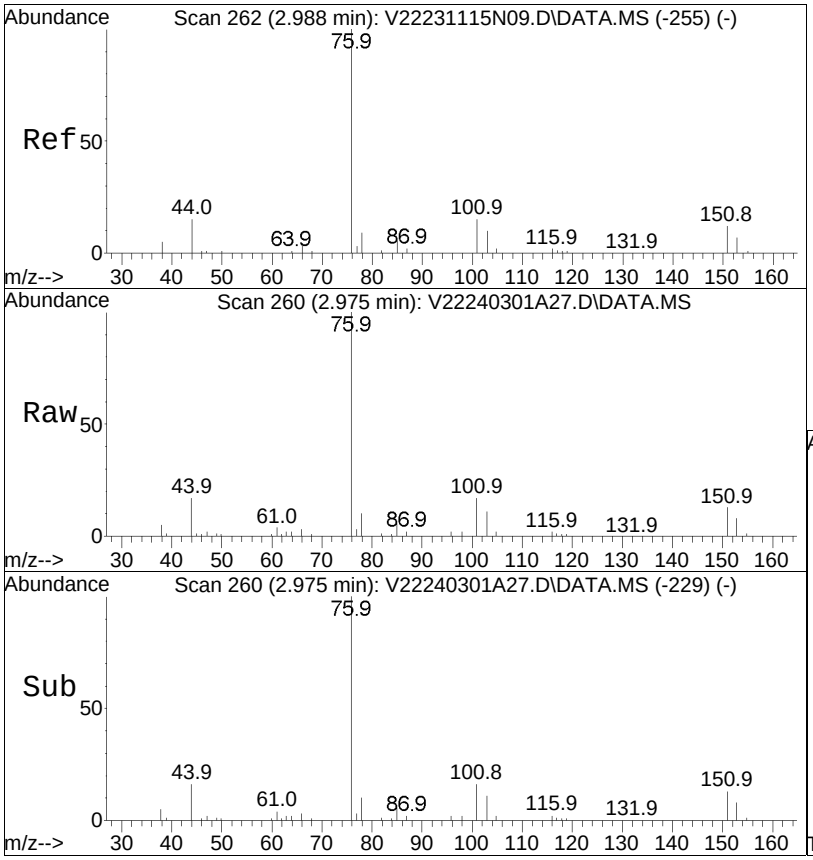


#10
1,1-Dichloroethene
Concen: 11.48 ug/L
RT: 2.949 min Scan# 256
Delta R.T. -0.000 min
Lab File: V22240301A27.D
Acq: 01 Mar 2024 07:03 pm

Tgt Ion: 96 Resp: 78957

Ion	Ratio	Lower	Upper
96	100		
61	205.7	117.0	175.4#
63	62.1	37.8	56.6#

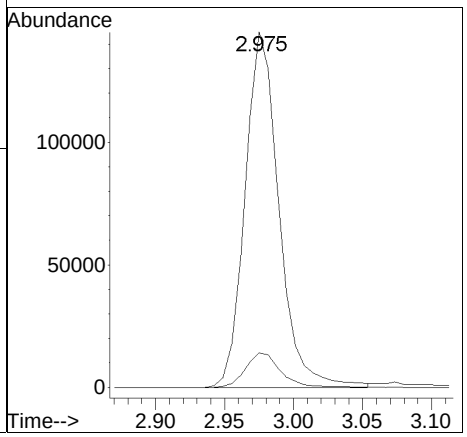


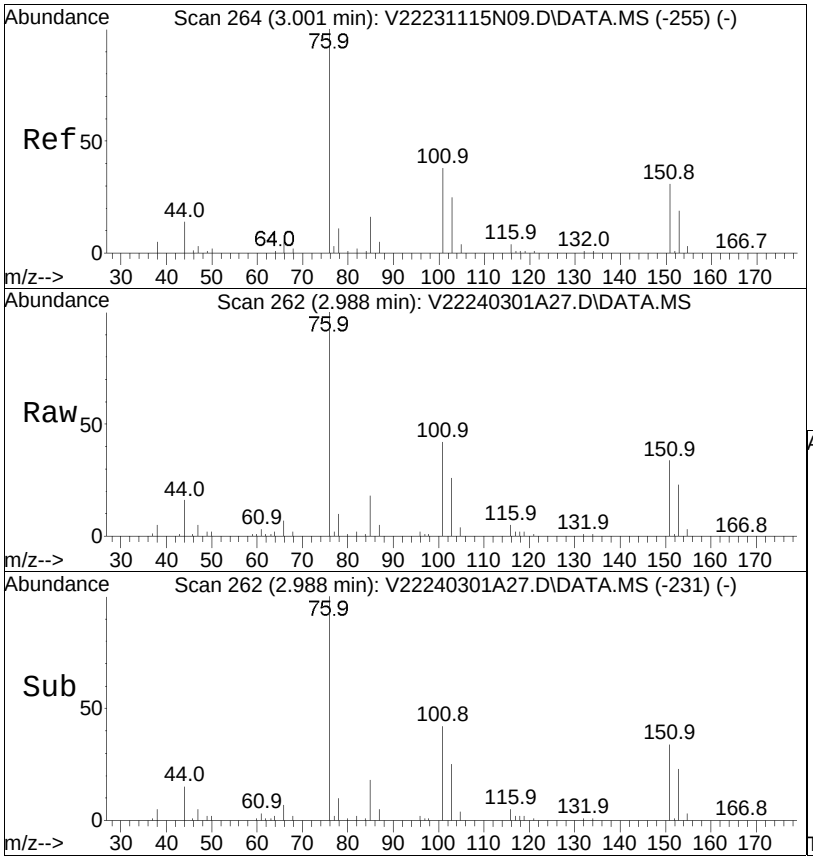


#11
Carbon disulfide
Concen: 11.14 ug/L
RT: 2.975 min Scan# 260
Delta R.T. -0.000 min
Lab File: V22240301A27.D
Acq: 01 Mar 2024 07:03 pm

Tgt Ion: 76 Resp: 248010

Ion	Ratio	Lower	Upper
76	100		
78	10.1	6.4	13.4

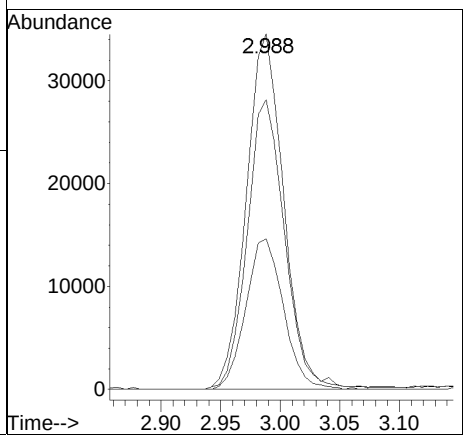


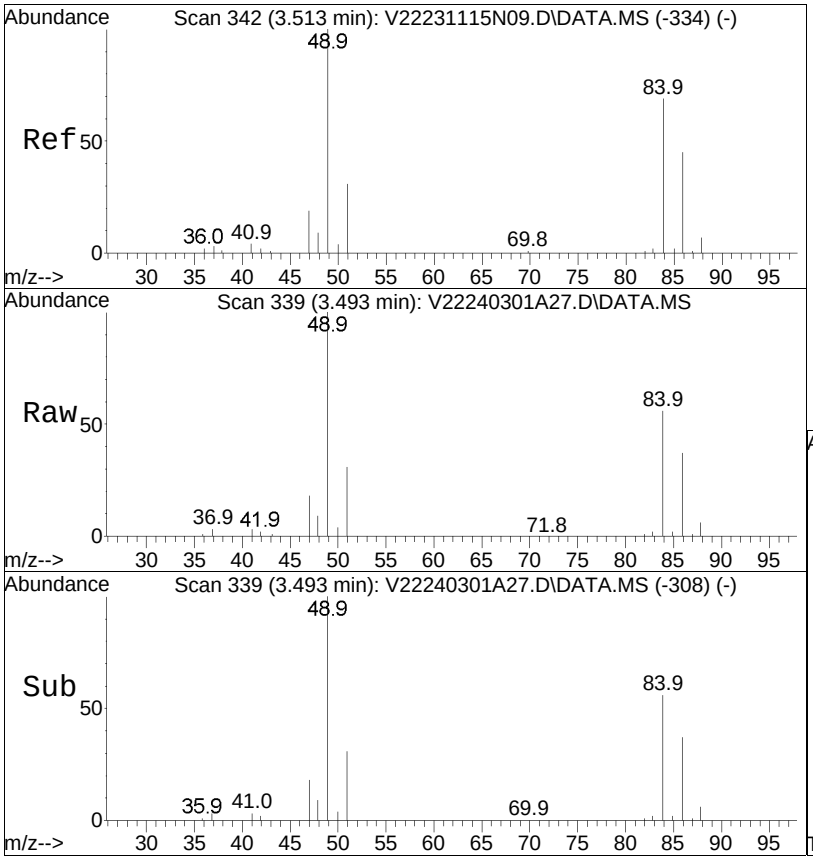


#12
Freon-113
Concen: 11.87 ug/L
RT: 2.988 min Scan# 262
Delta R.T. -0.000 min
Lab File: V22240301A27.D
Acq: 01 Mar 2024 07:03 pm

Tgt Ion:101 Resp: 75736

Ion	Ratio	Lower	Upper
101	100		
151	81.6	68.5	102.7
85	42.6	33.1	49.7

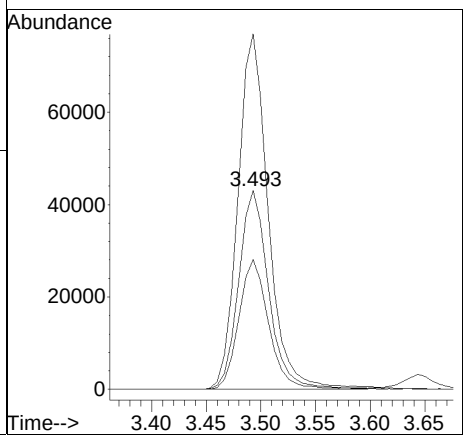


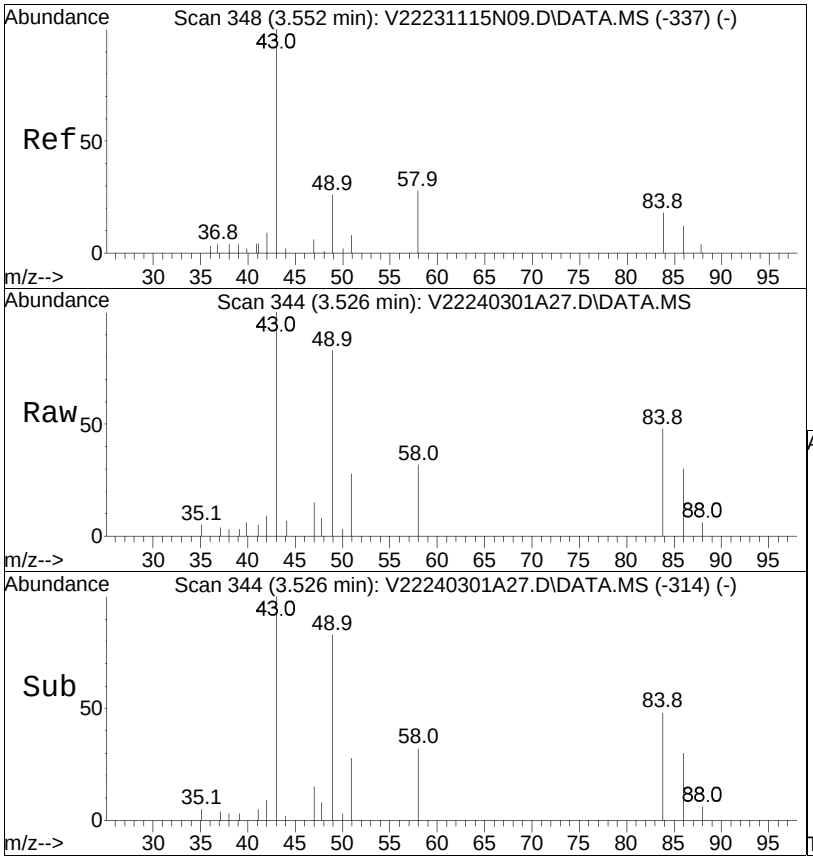


#15
Methylene chloride
Concen: 9.72 ug/L
RT: 3.493 min Scan# 339
Delta R.T. -0.000 min
Lab File: V22240301A27.D
Acq: 01 Mar 2024 07:03 pm

Tgt Ion: 84 Resp: 82560

Ion	Ratio	Lower	Upper
84	100		
86	65.1	41.5	86.3
49	180.4	68.8	143.0#

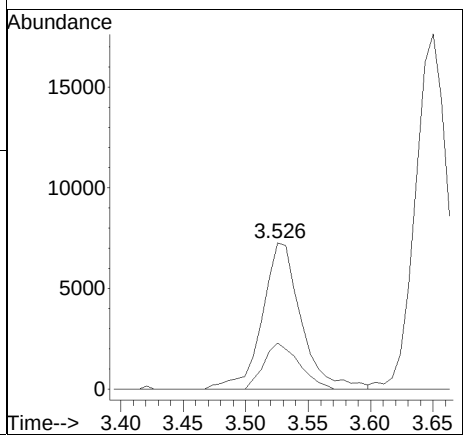


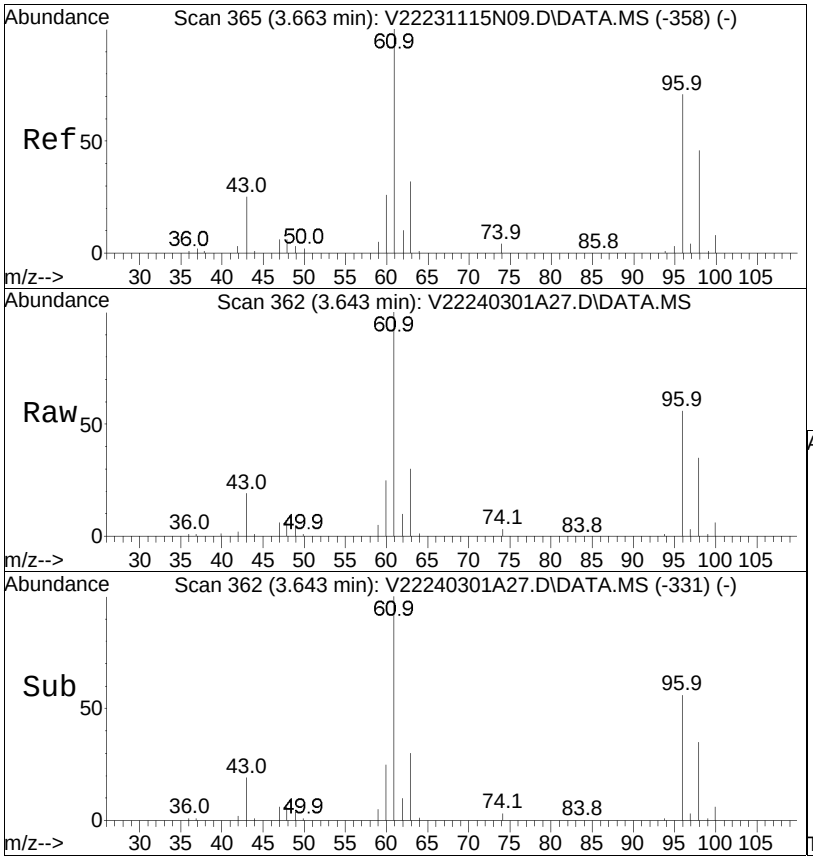


#17
Acetone
Concen: 11.06 ug/L
RT: 3.526 min Scan# 344
Delta R.T. -0.000 min
Lab File: V22240301A27.D
Acq: 01 Mar 2024 07:03 pm

Tgt Ion: 43 Resp: 15884

Ion	Ratio	Lower	Upper
43	100		
58	28.8	23.1	34.7

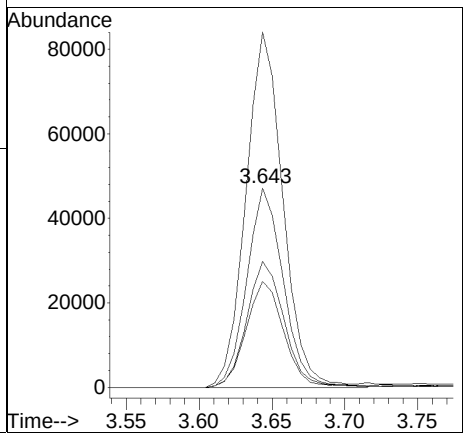


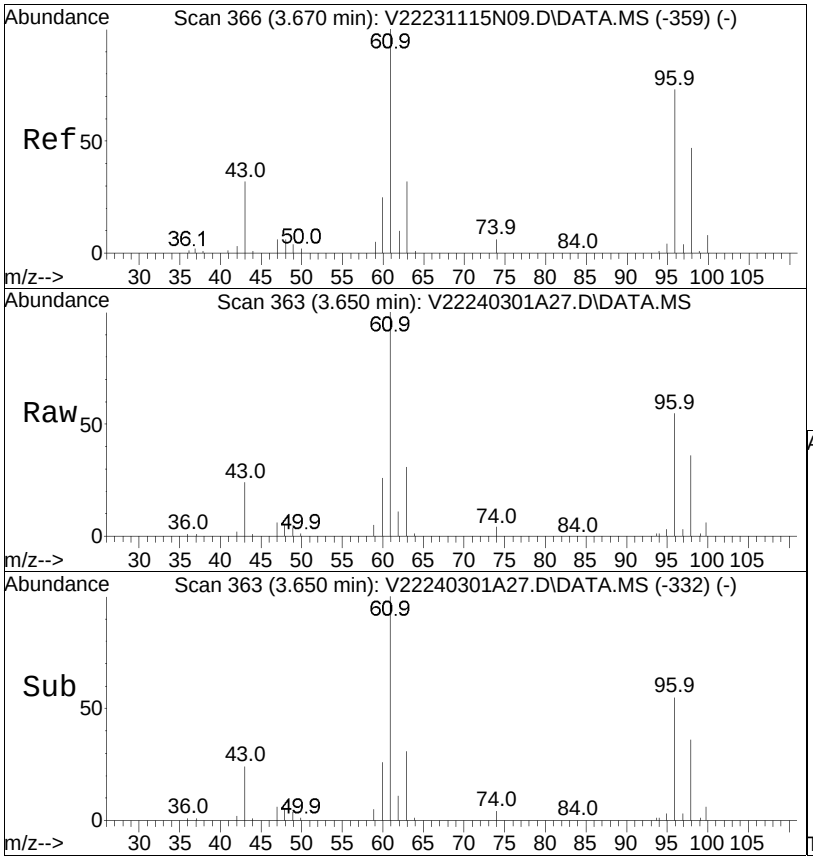


#18
trans-1,2-Dichloroethene
Concen: 10.55 ug/L
RT: 3.643 min Scan# 362
Delta R.T. -0.000 min
Lab File: V22240301A27.D
Acq: 01 Mar 2024 07:03 pm

Tgt Ion: 96 Resp: 82440

Ion	Ratio	Lower	Upper
96	100		
61	179.8	81.6	169.6#
98	64.6	41.8	86.8
63	55.1	26.3	54.7#

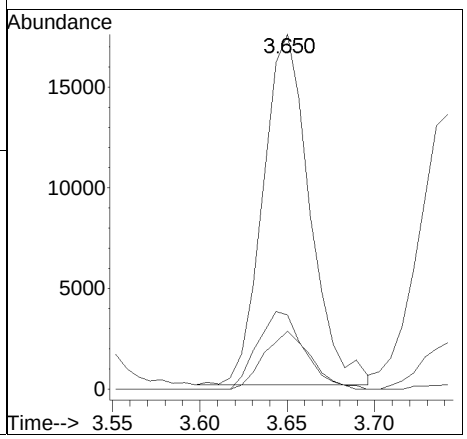


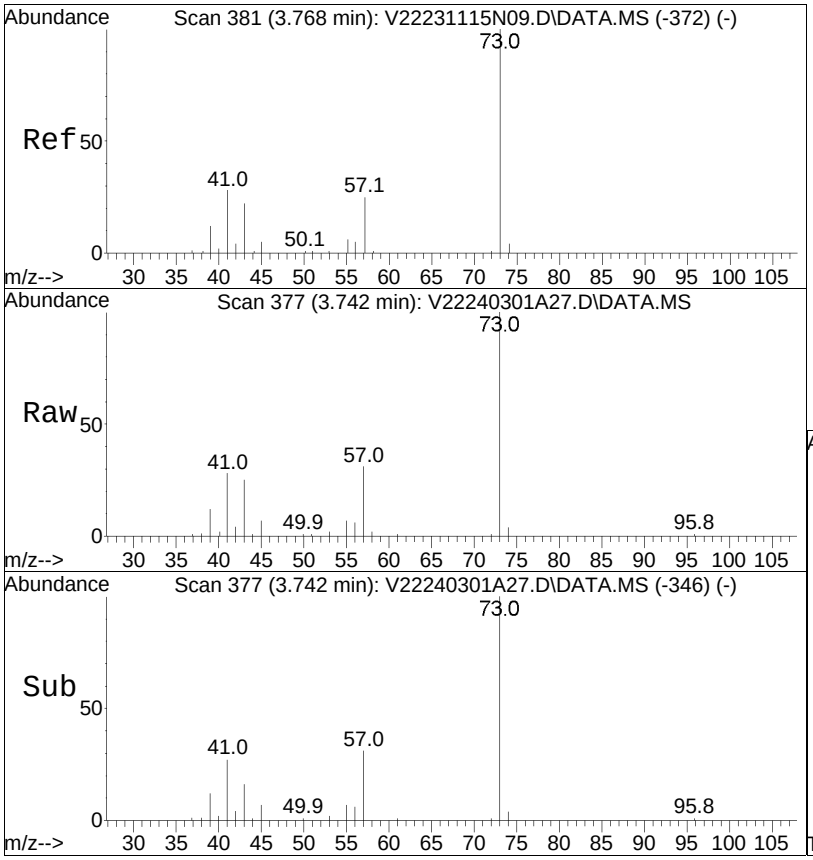


#19
Methyl acetate
Concen: 10.55 ug/L
RT: 3.650 min Scan# 363
Delta R.T. -0.000 min
Lab File: V22240301A27.D
Acq: 01 Mar 2024 07:03 pm

Tgt Ion: 43 Resp: 32417

Ion	Ratio	Lower	Upper
43	100		
74	16.7	21.8	32.6#
59	22.1	18.1	27.1

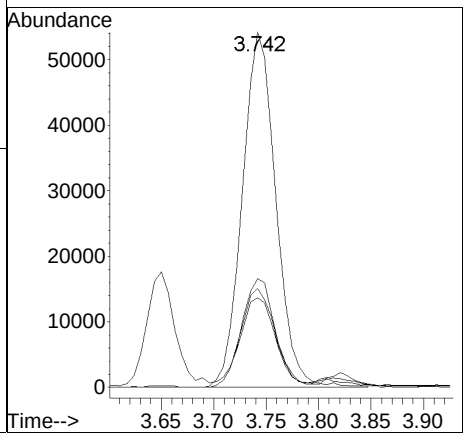


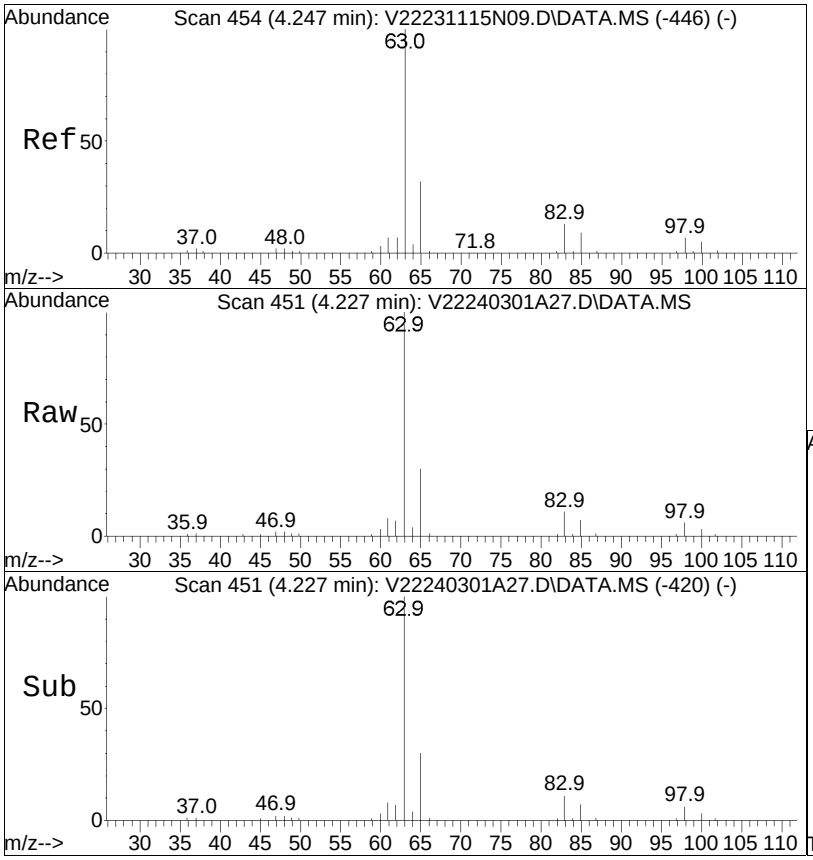


#21
Methyl tert-butyl ether
Concen: 9.85 ug/L
RT: 3.742 min Scan# 377
Delta R.T. -0.000 min
Lab File: V22240301A27.D
Acq: 01 Mar 2024 07:03 pm

Tgt Ion: 73 Resp: 120957

Ion	Ratio	Lower	Upper
73	100		
57	30.9	13.6	28.2#
43	25.7	12.7	26.5
41	28.8	11.4	23.8#

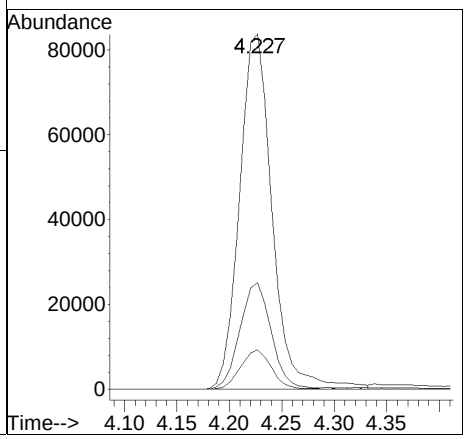


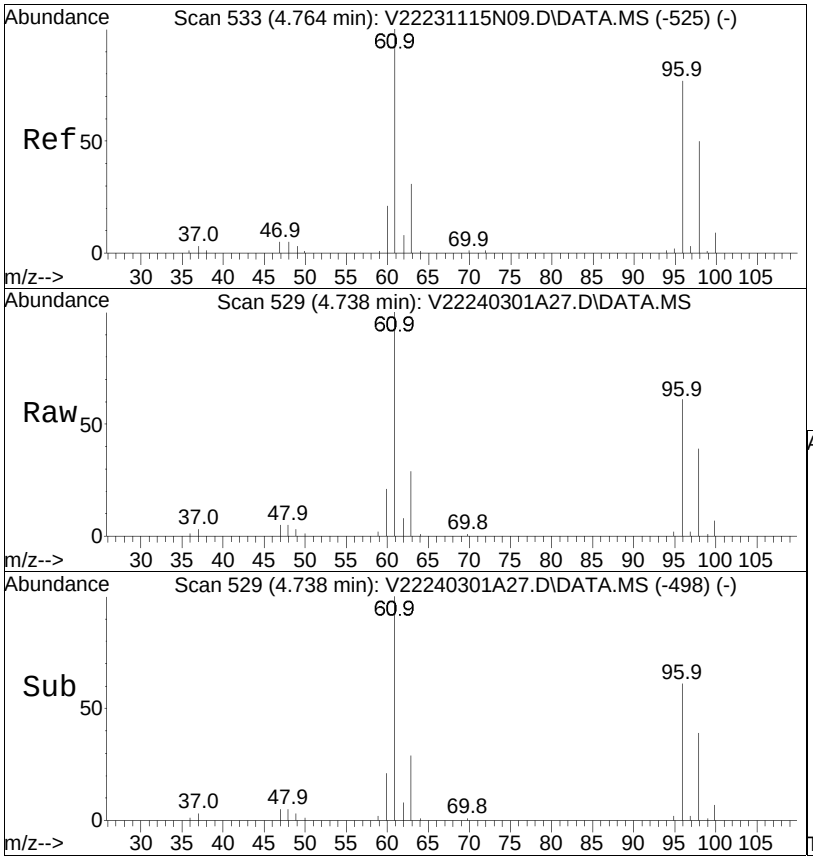


#25
1,1-Dichloroethane
Concen: 11.48 ug/L
RT: 4.227 min Scan# 451
Delta R.T. -0.000 min
Lab File: V22240301A27.D
Acq: 01 Mar 2024 07:03 pm

Tgt Ion: 63 Resp: 182341

Ion	Ratio	Lower	Upper
63	100		
65	28.8	11.9	51.9
83	10.6	0.0	34.2

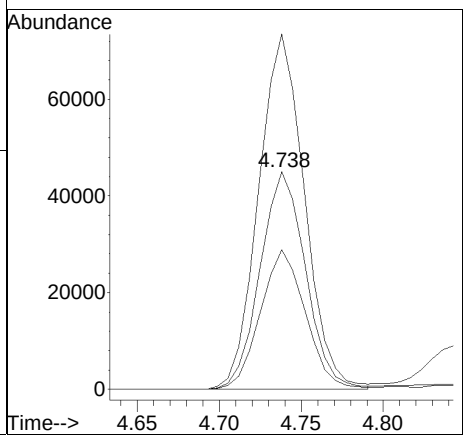


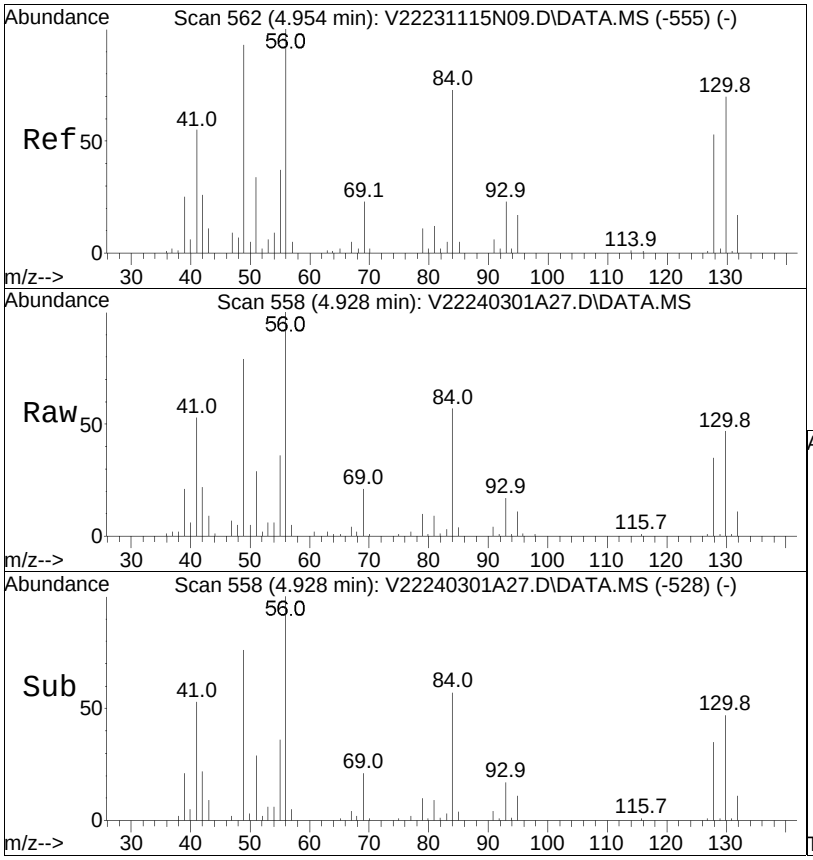


#30
cis-1,2-Dichloroethene
Concen: 9.94 ug/L
RT: 4.738 min Scan# 529
Delta R.T. -0.000 min
Lab File: V22240301A27.D
Acq: 01 Mar 2024 07:03 pm

Tgt Ion: 96 Resp: 86874

Ion	Ratio	Lower	Upper
96	100		
61	164.6	90.3	135.5#
98	63.6	50.8	76.2

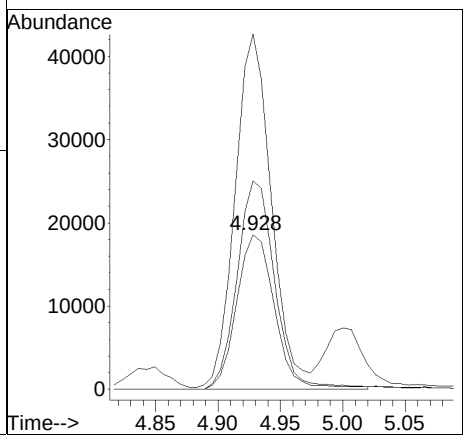


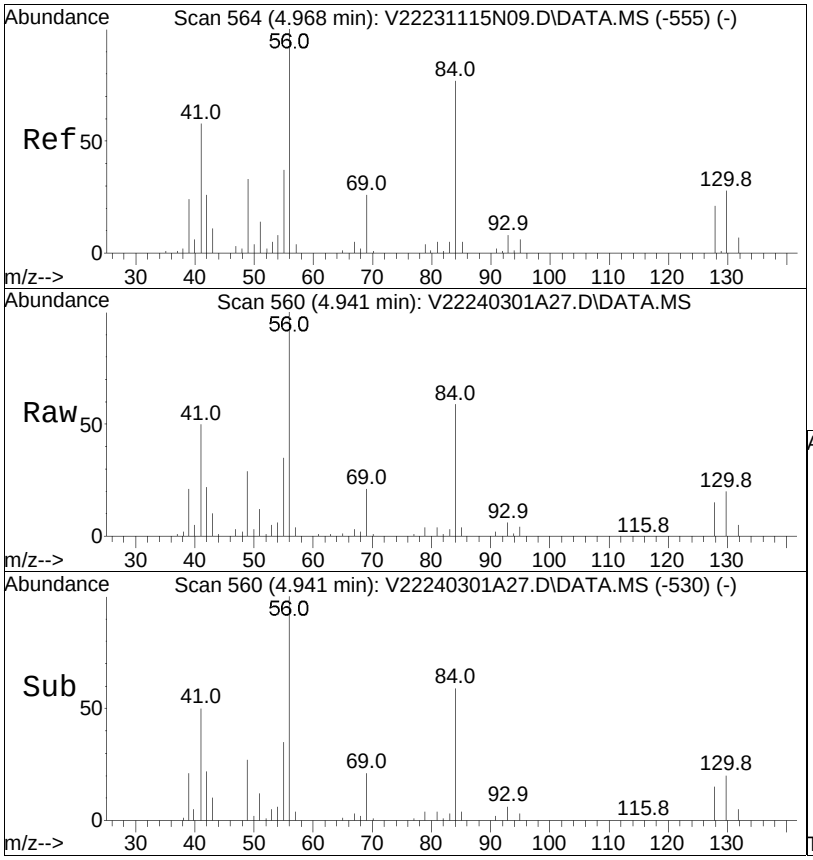


#32
Bromochloromethane
Concen: 9.84 ug/L
RT: 4.928 min Scan# 558
Delta R.T. -0.007 min
Lab File: V22240301A27.D
Acq: 01 Mar 2024 07:03 pm

Tgt Ion:128 Resp: 39447

Ion	Ratio	Lower	Upper
128	100		
49	216.8	104.4	156.6#
130	135.1	103.9	155.9

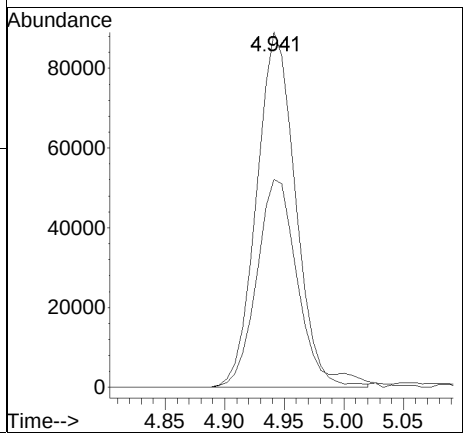


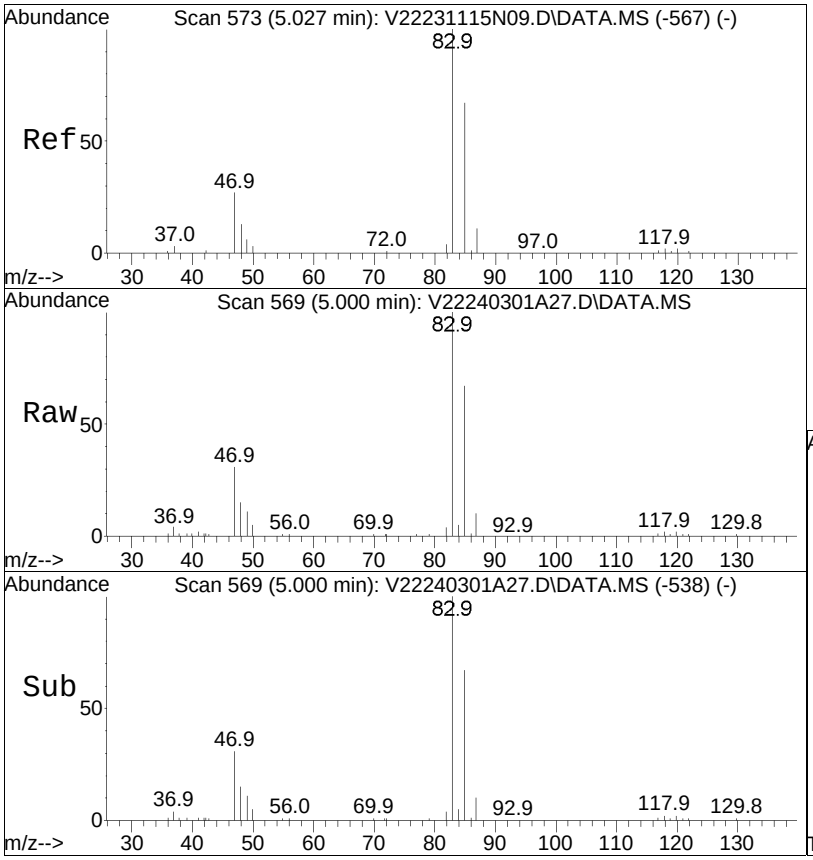


#33
Cyclohexane
Concen: 14.37 ug/L
RT: 4.941 min Scan# 560
Delta R.T. -0.007 min
Lab File: V22240301A27.D
Acq: 01 Mar 2024 07:03 pm

Tgt Ion: 56 Resp: 202156

Ion	Ratio	Lower	Upper
56	100		
84	62.9	66.0	137.2#

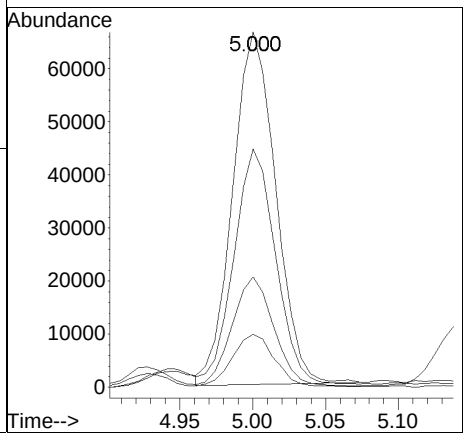


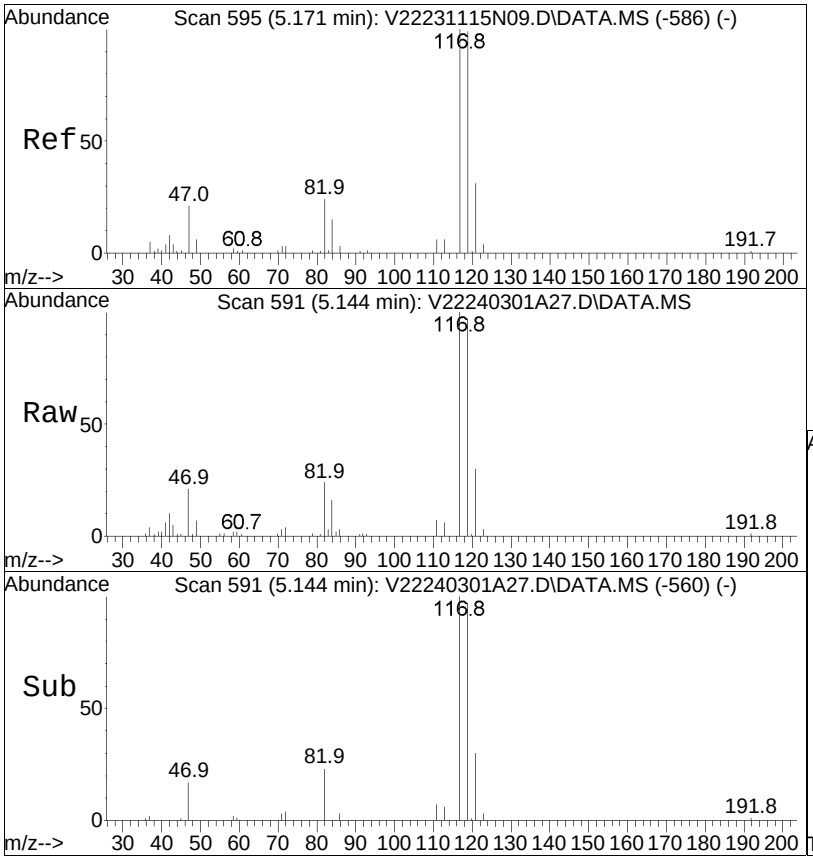


#34
Chloroform
Concen: 9.80 ug/L
RT: 5.000 min Scan# 569
Delta R.T. -0.000 min
Lab File: V22240301A27.D
Acq: 01 Mar 2024 07:03 pm

Tgt Ion: 83 Resp: 136697

Ion	Ratio	Lower	Upper
83	100		
85	65.6	42.4	88.2
47	29.6	14.0	29.0#
48	14.7	6.9	14.3#

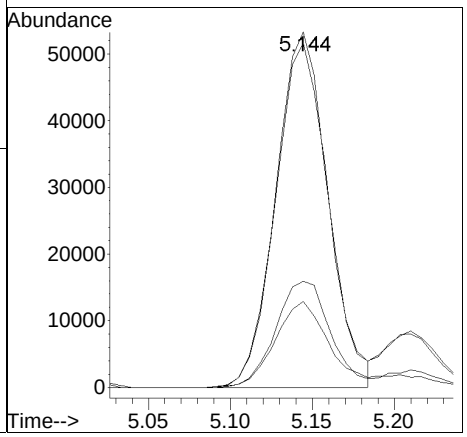


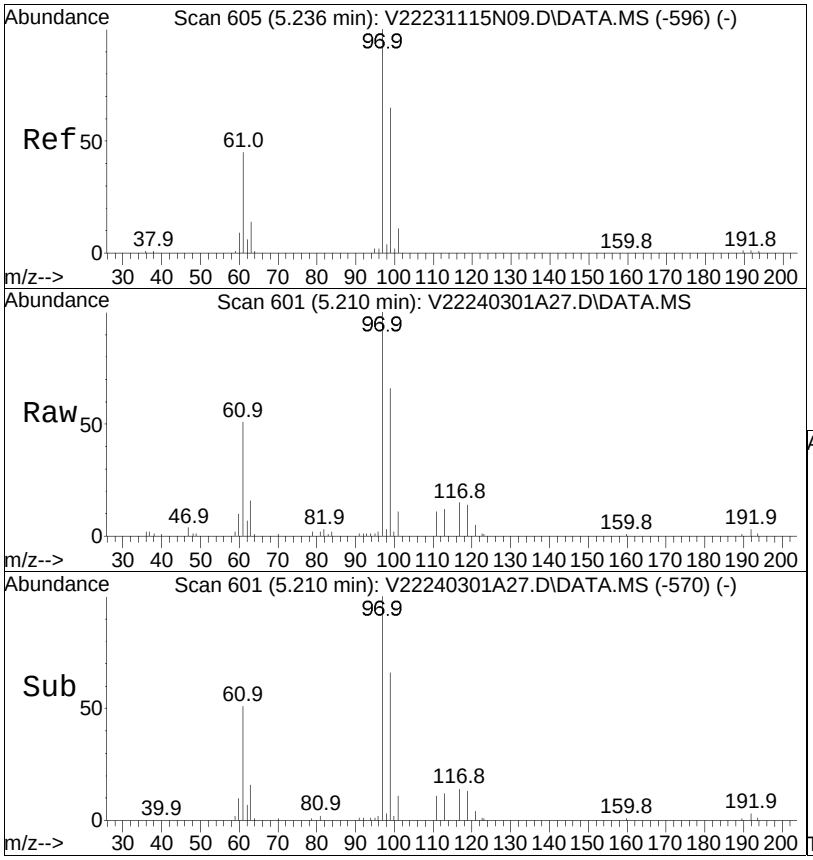


#36
Carbon tetrachloride
Concen: 11.03 ug/L
RT: 5.144 min Scan# 591
Delta R.T. -0.000 min
Lab File: V22240301A27.D
Acq: 01 Mar 2024 07:03 pm

Tgt Ion:117 Resp: 118185

Ion	Ratio	Lower	Upper
117	100		
119	97.6	62.1	129.1
121	31.2	20.3	42.3
82	26.0	15.4	32.0

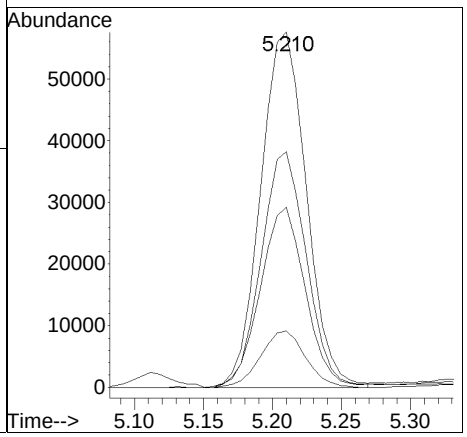


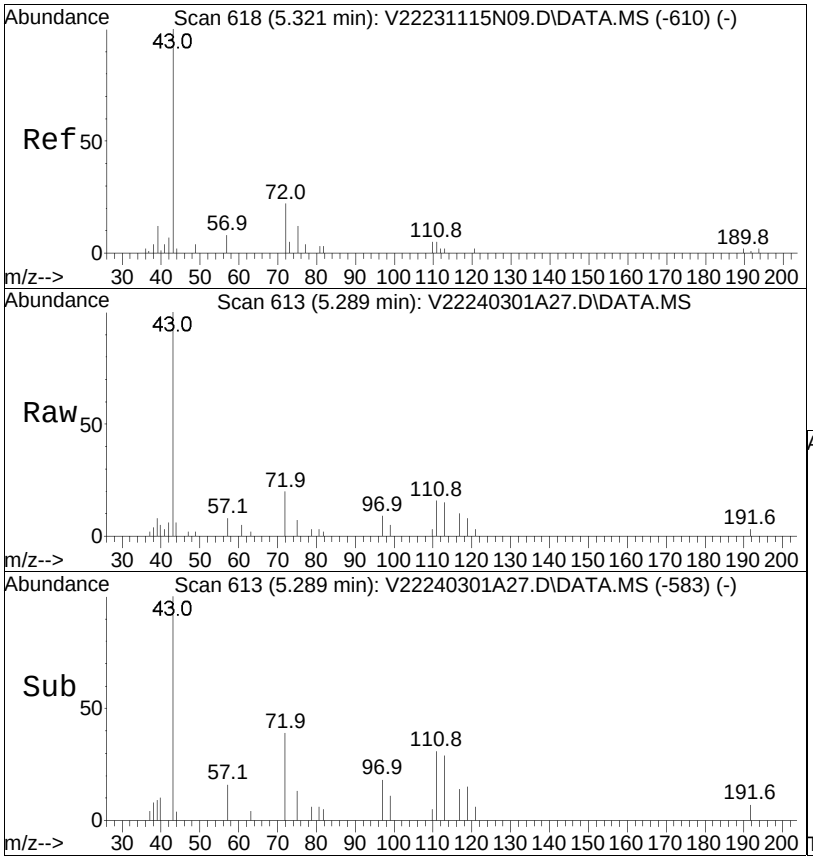


#39
1,1,1-Trichloroethane
Concen: 10.83 ug/L
RT: 5.210 min Scan# 601
Delta R.T. -0.000 min
Lab File: V22240301A27.D
Acq: 01 Mar 2024 07:03 pm

Tgt Ion: 97 Resp: 133107

Ion	Ratio	Lower	Upper
97	100		
99	65.9	42.4	88.0
61	50.5	26.0	54.0
63	15.6	8.3	17.3

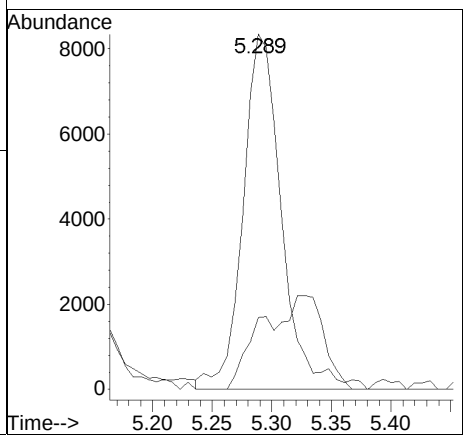


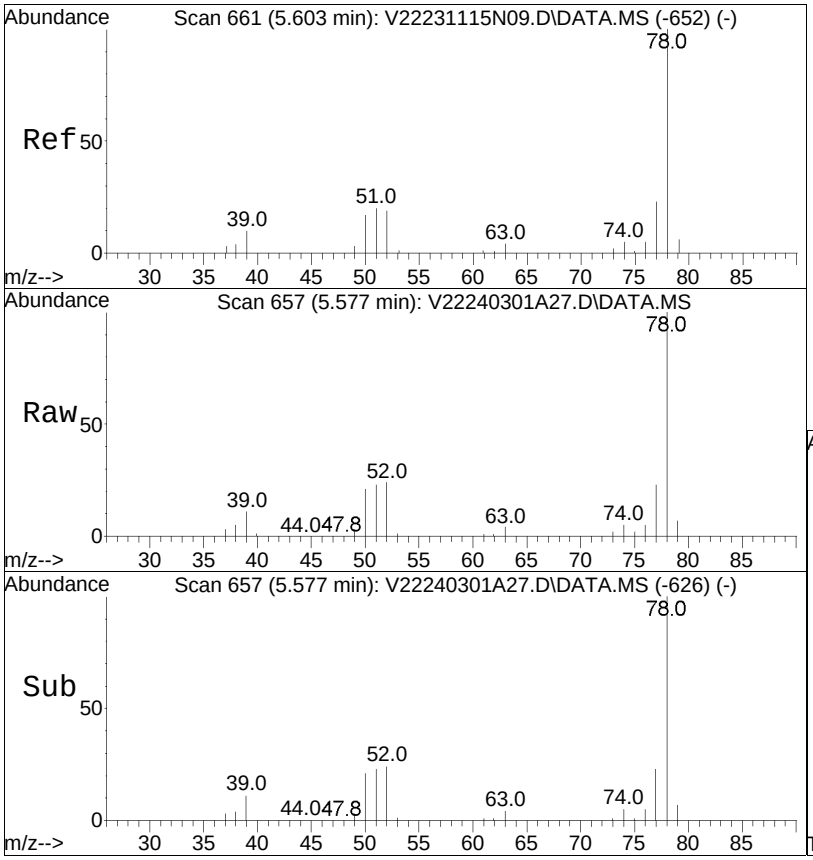


#41
2-Butanone
Concen: 10.43 ug/L
RT: 5.289 min Scan# 613
Delta R.T. -0.007 min
Lab File: V22240301A27.D
Acq: 01 Mar 2024 07:03 pm

Tgt Ion: 43 Resp: 18758

Ion	Ratio	Lower	Upper
43	100		
72	14.8	45.8	68.8#

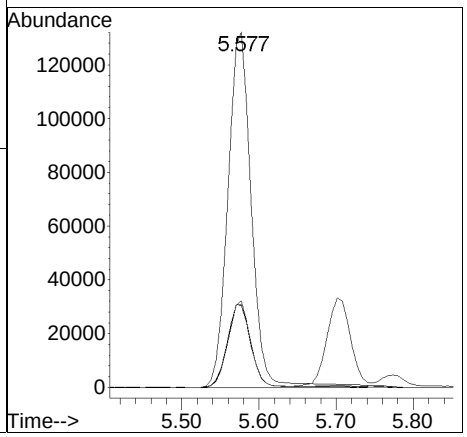


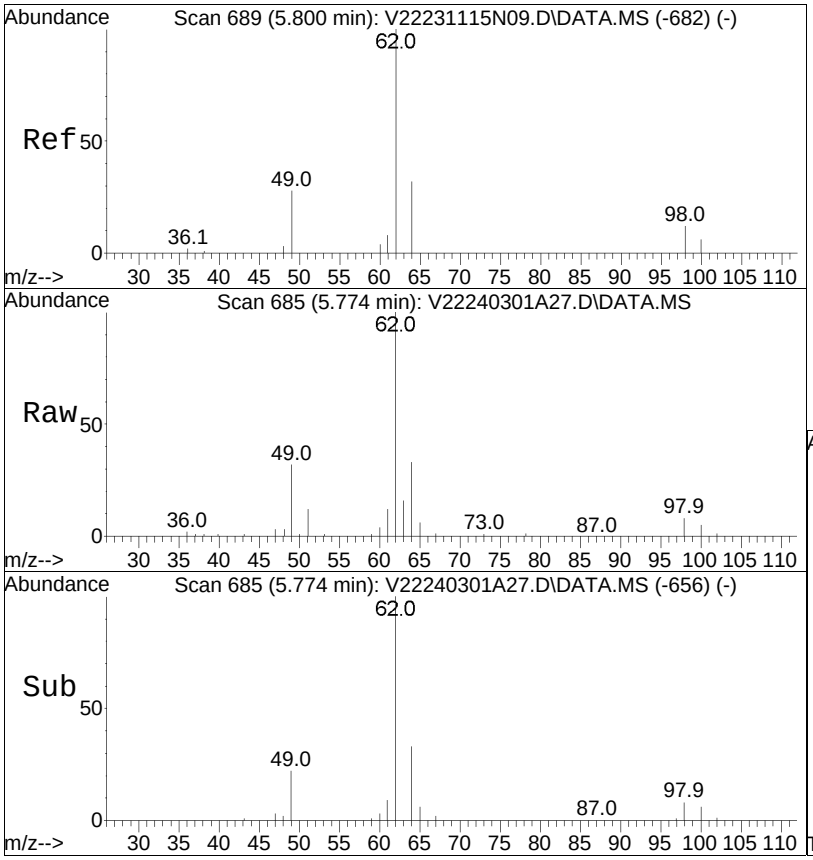


#44
Benzene
Concen: 10.50 ug/L
RT: 5.577 min Scan# 657
Delta R.T. -0.000 min
Lab File: V22240301A27.D
Acq: 01 Mar 2024 07:03 pm

Tgt Ion: 78 Resp: 296769

Ion	Ratio	Lower	Upper
78	100		
77	23.7	15.4	32.0
51	21.8	9.8	20.4#
52	22.3	9.2	19.2#

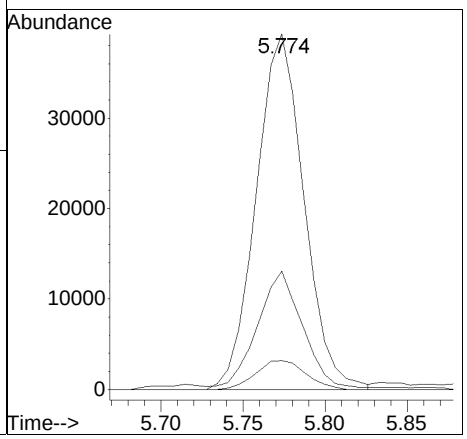


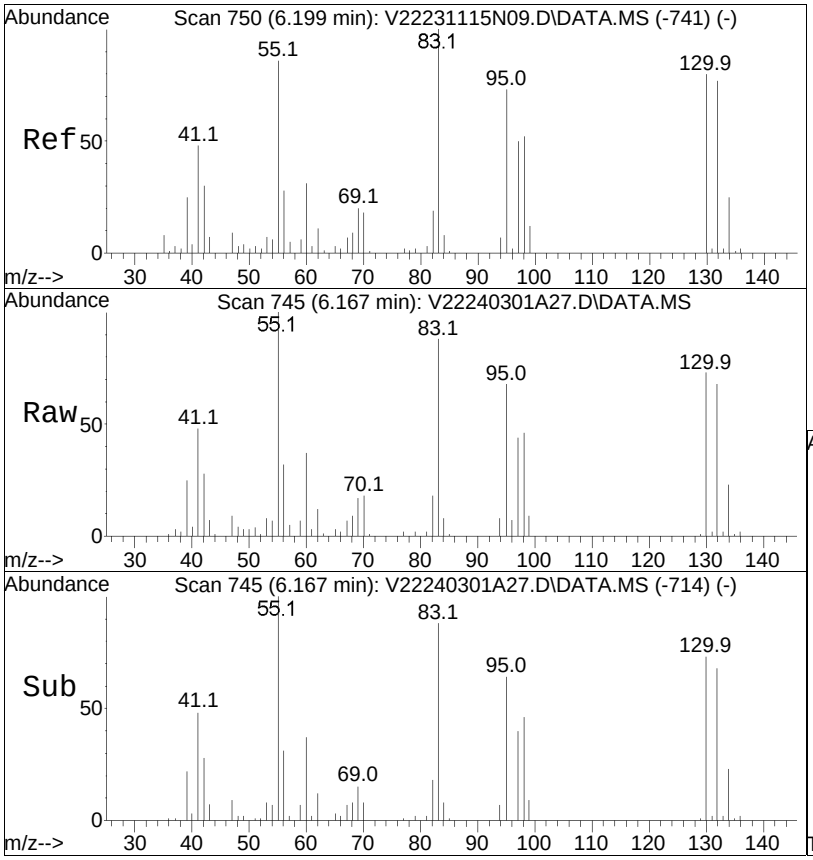


#47
1,2-Dichloroethane
Concen: 10.35 ug/L
RT: 5.774 min Scan# 685
Delta R.T. -0.000 min
Lab File: V22240301A27.D
Acq: 01 Mar 2024 07:03 pm

Tgt Ion: 62 Resp: 79500

Ion	Ratio	Lower	Upper
62	100		
64	30.8	12.3	52.3
98	8.5	0.0	30.3

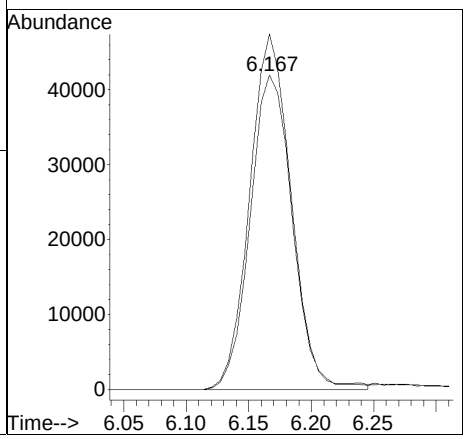


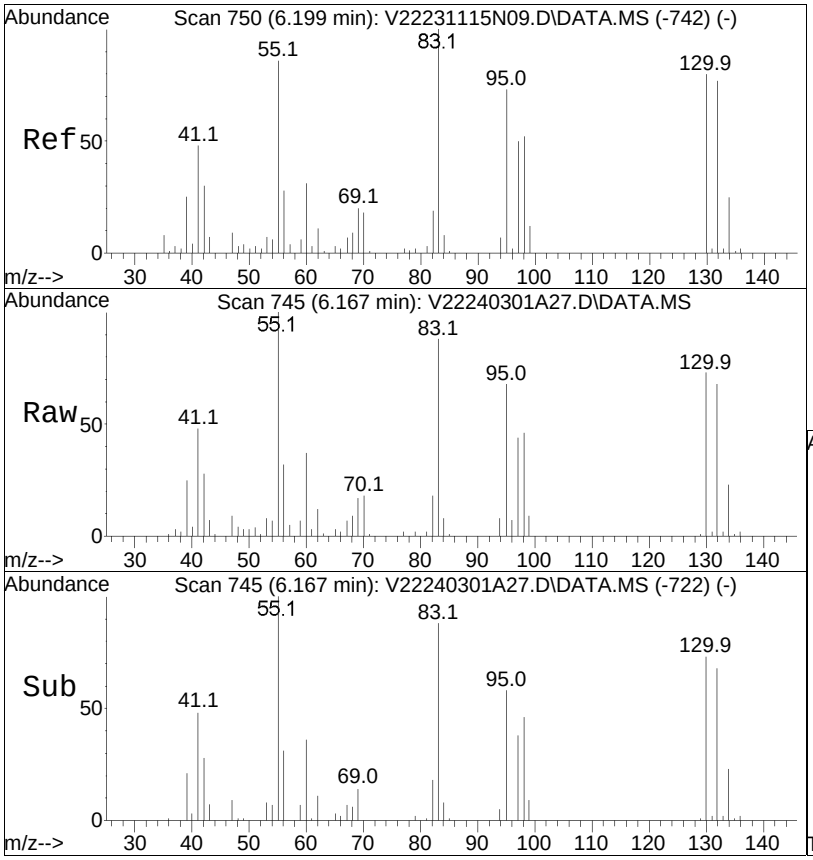


#50
Methyl cyclohexane
Concen: 10.48 ug/L
RT: 6.167 min Scan# 745
Delta R.T. -0.000 min
Lab File: V22240301A27.D
Acq: 01 Mar 2024 07:03 pm

Tgt Ion: 83 Resp: 98691

Ion	Ratio	Lower	Upper
83	100		
55	111.4	55.4	83.2#

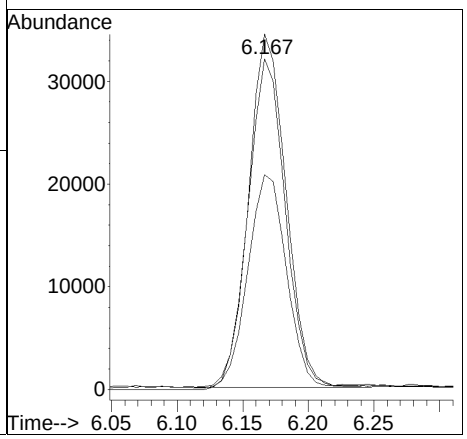


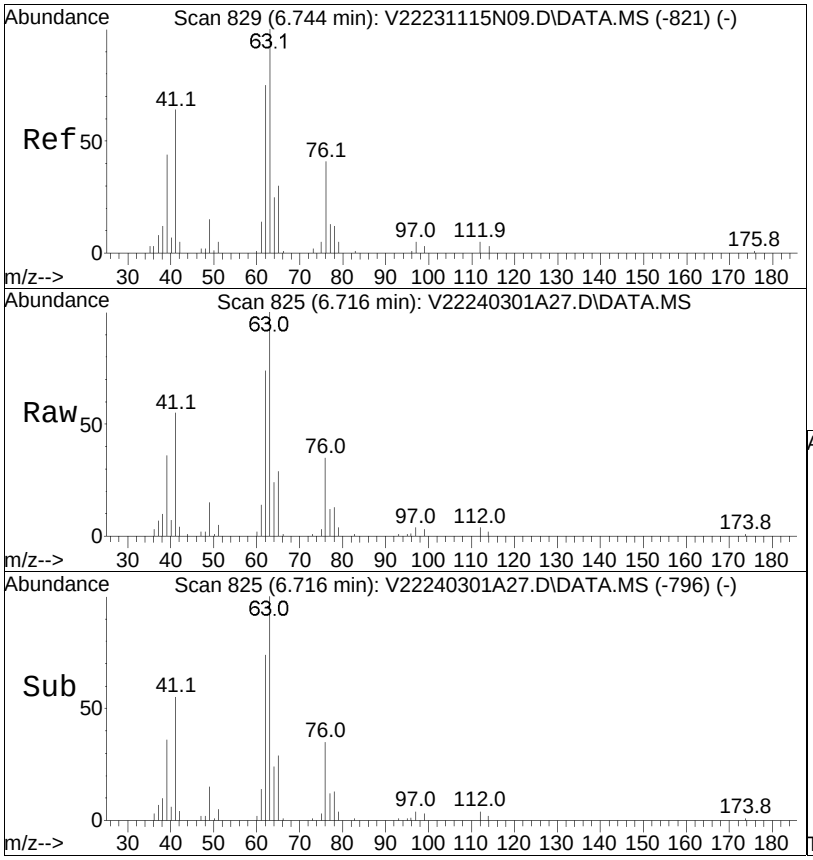


#51
Trichloroethene
Concen: 9.63 ug/L
RT: 6.167 min Scan# 745
Delta R.T. -0.007 min
Lab File: V22240301A27.D
Acq: 01 Mar 2024 07:03 pm

Tgt Ion: 95 Resp: 63244

Ion	Ratio	Lower	Upper
95	100		
97	67.4	55.0	82.4
130	110.0	89.2	133.8

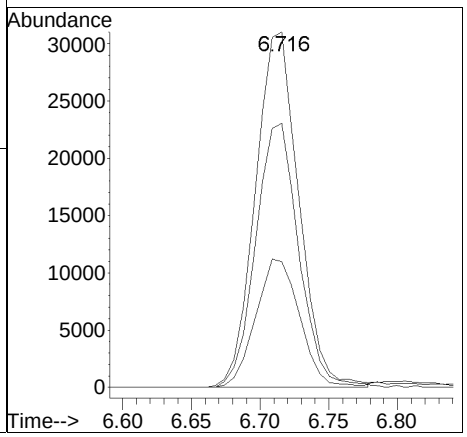


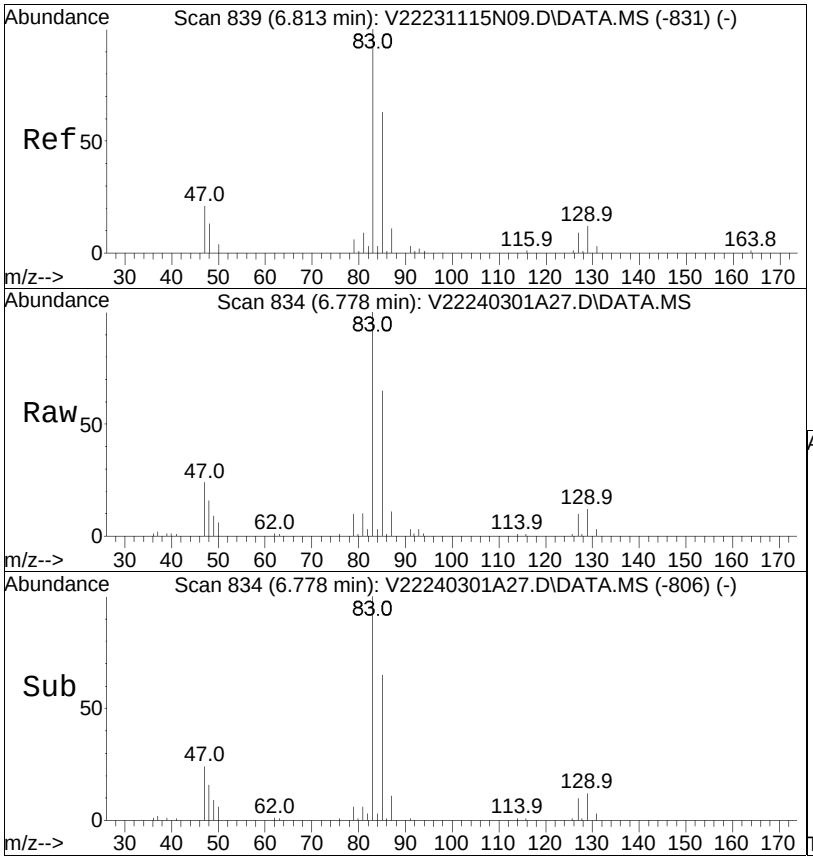


#54
1,2-Dichloropropane
Concen: 10.70 ug/L
RT: 6.716 min Scan# 825
Delta R.T. -0.000 min
Lab File: V22240301A27.D
Acq: 01 Mar 2024 07:03 pm

Tgt Ion: 63 Resp: 68284

Ion	Ratio	Lower	Upper
63	100		
62	73.5	56.9	85.3
76	36.7	35.8	53.8

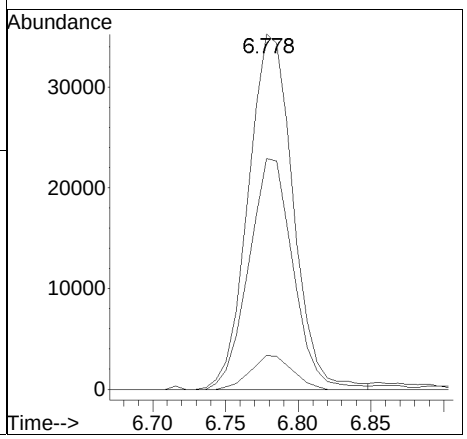


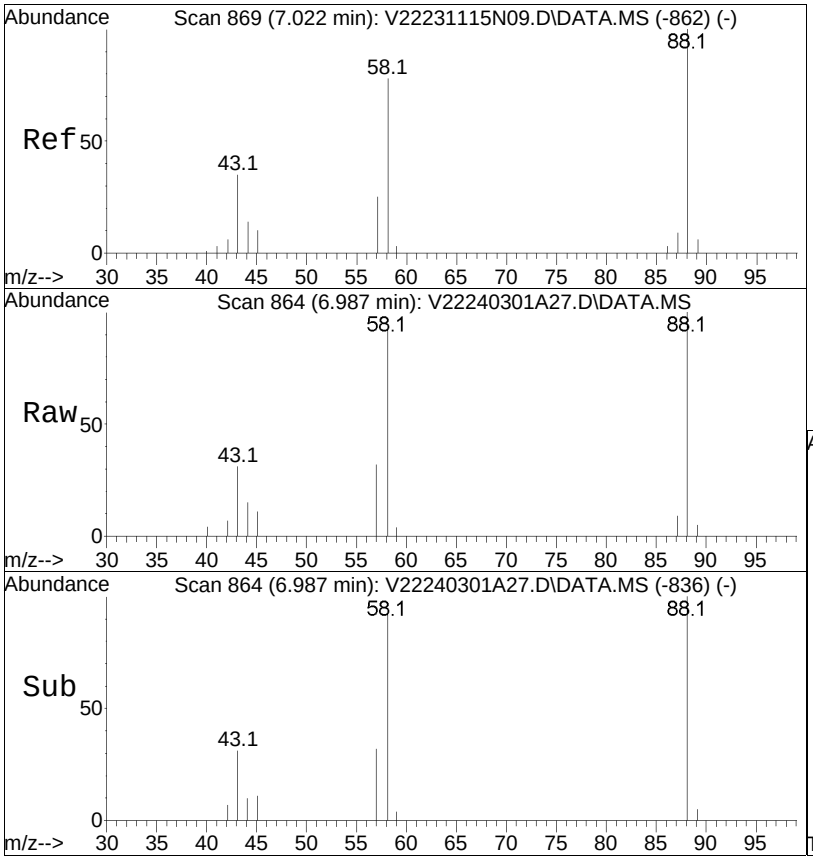


#57
Bromodichloromethane
Concen: 9.16 ug/L
RT: 6.778 min Scan# 834
Delta R.T. -0.007 min
Lab File: V22240301A27.D
Acq: 01 Mar 2024 07:03 pm

Tgt Ion: 83 Resp: 75716

Ion	Ratio	Lower	Upper
83	100		
85	64.3	51.6	77.4
127	9.0	7.4	11.0

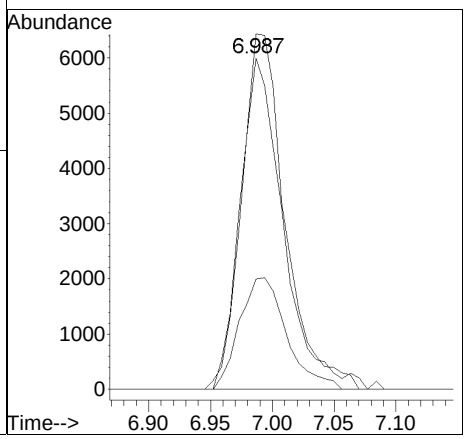


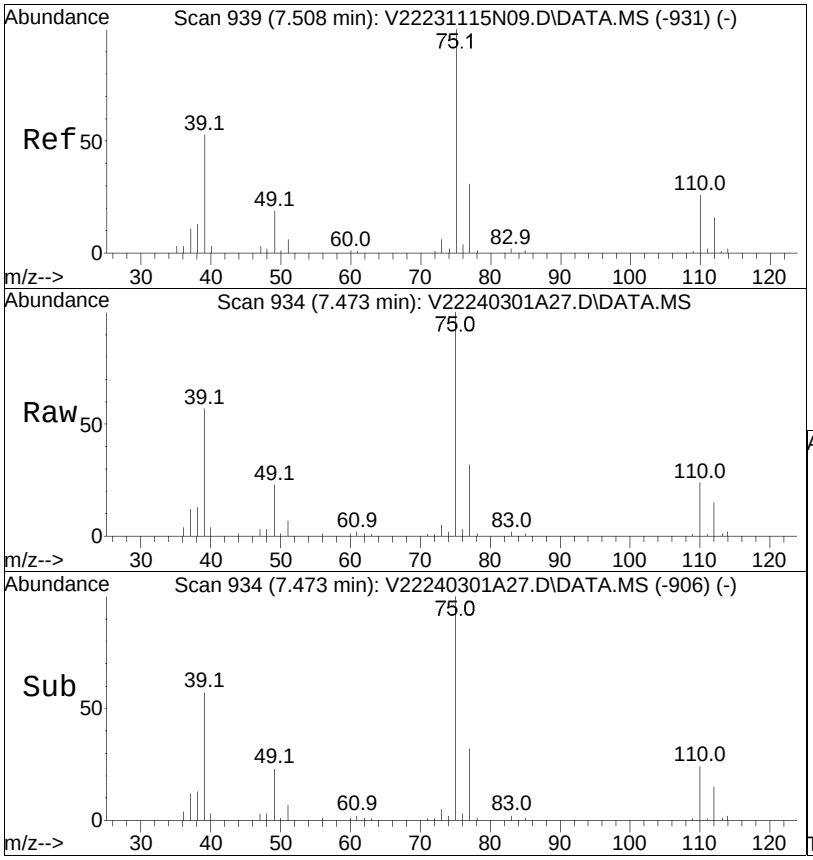


#60
1,4-Dioxane
Concen: 405.78 ug/L
RT: 6.987 min Scan# 864
Delta R.T. -0.007 min
Lab File: V22240301A27.D
Acq: 01 Mar 2024 07:03 pm

Tgt Ion: 88 Resp: 15759

Ion	Ratio	Lower	Upper
88	100		
58	92.3	43.3	64.9#
43	34.0	15.1	22.7#

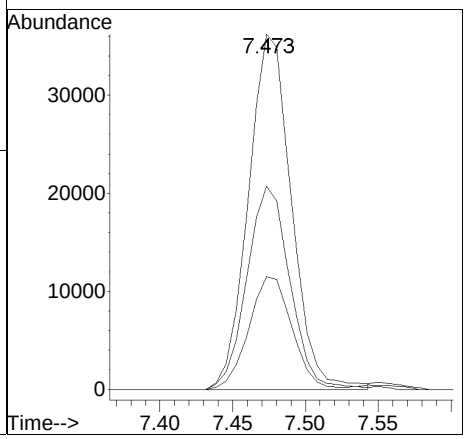


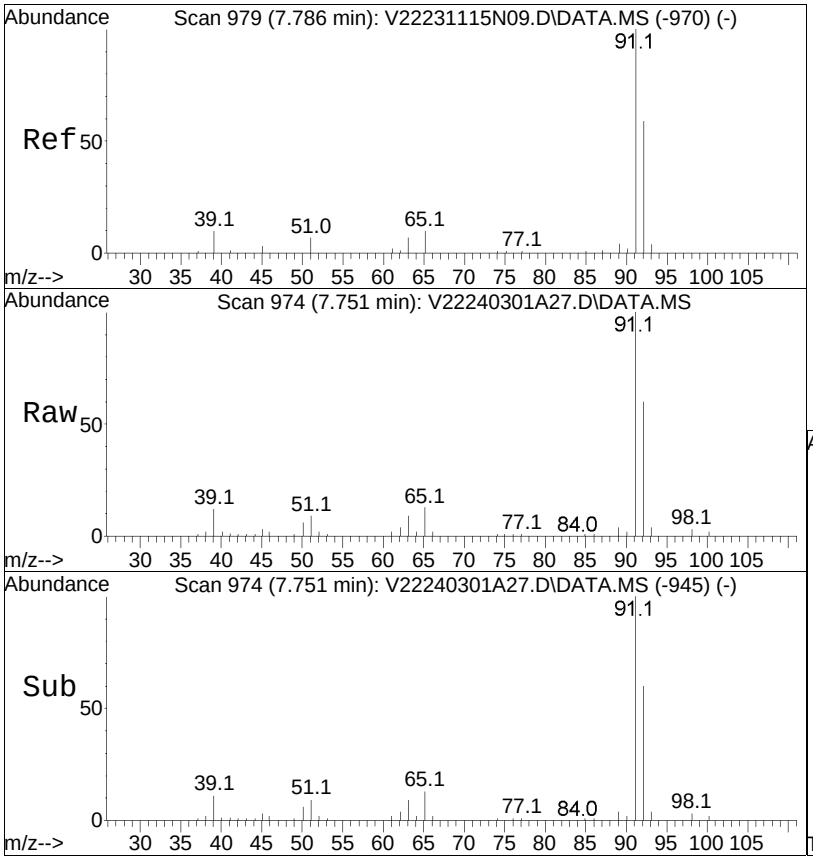


#61
cis-1,3-Dichloropropene
Concen: 8.63 ug/L
RT: 7.473 min Scan# 934
Delta R.T. -0.007 min
Lab File: V22240301A27.D
Acq: 01 Mar 2024 07:03 pm

Tgt Ion: 75 Resp: 74495

Ion	Ratio	Lower	Upper
75	100		
77	31.9	25.6	38.4
39	57.0	35.4	53.0#

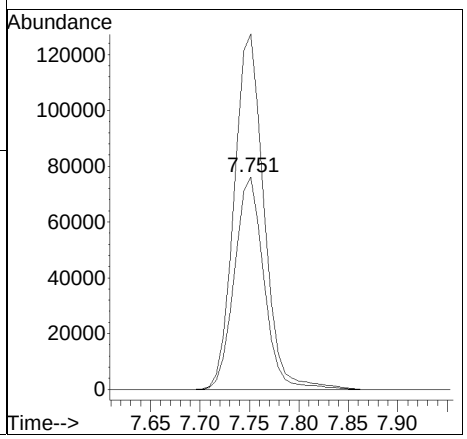


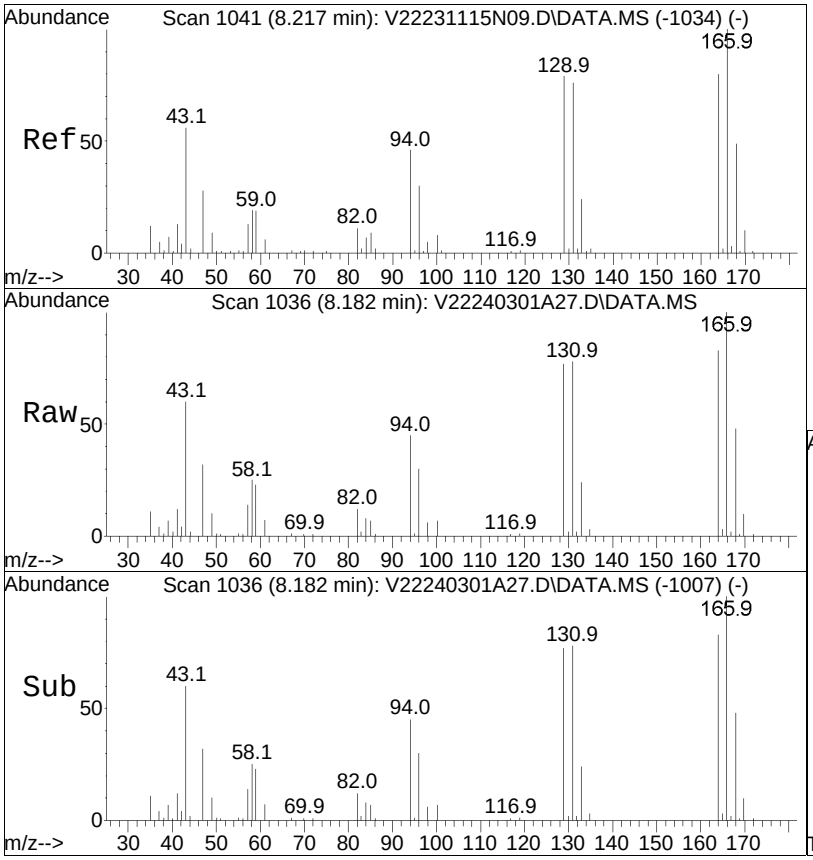


#64
Toluene
Concen: 10.19 ug/L
RT: 7.751 min Scan# 974
Delta R.T. -0.000 min
Lab File: V22240301A27.D
Acq: 01 Mar 2024 07:03 pm

Tgt Ion: 92 Resp: 157958

Ion	Ratio	Lower	Upper
92	100		
91	168.9	137.0	205.6

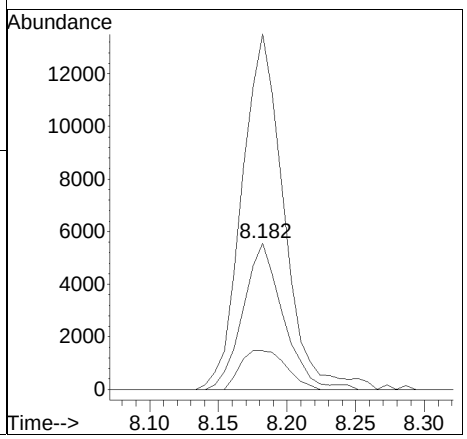


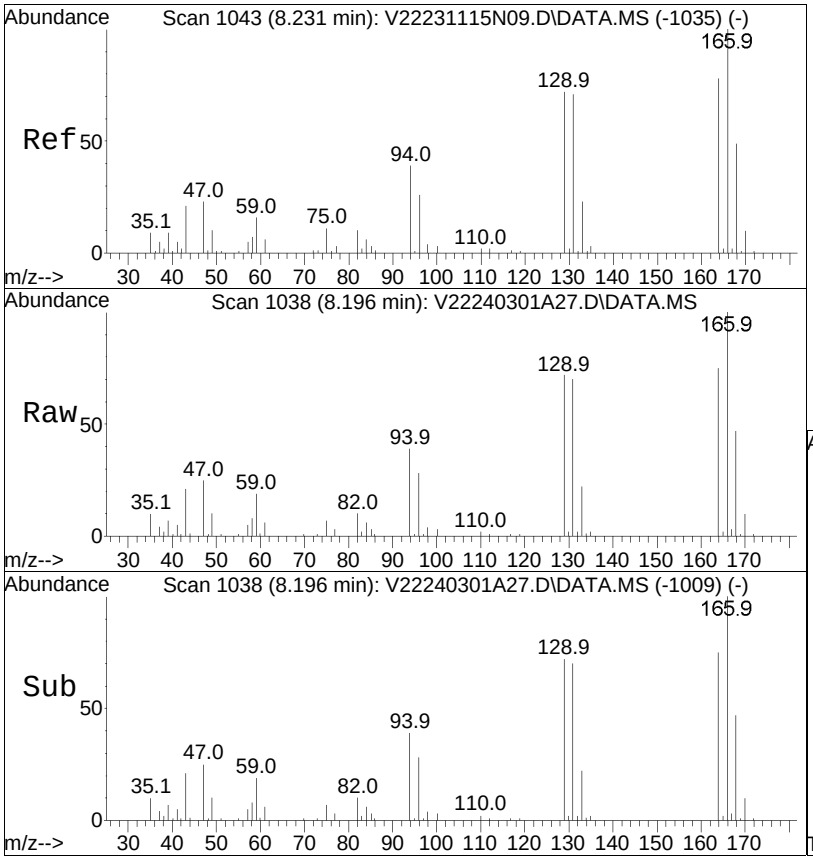


#65
4-Methyl-2-pentanone
Concen: 9.55 ug/L
RT: 8.182 min Scan# 1036
Delta R.T. -0.000 min
Lab File: V22240301A27.D
Acq: 01 Mar 2024 07:03 pm

Tgt Ion: 58 Resp: 11292

Ion	Ratio	Lower	Upper
58	100		
100	30.4	36.2	54.4#
43	255.5	181.8	272.8

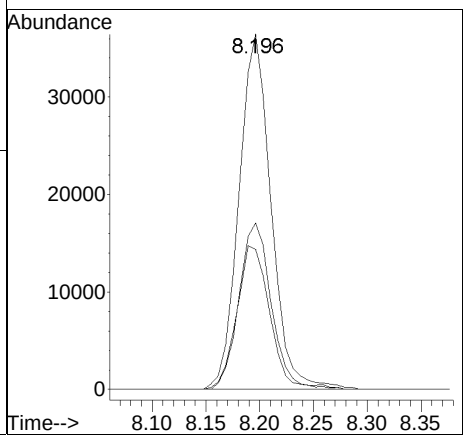


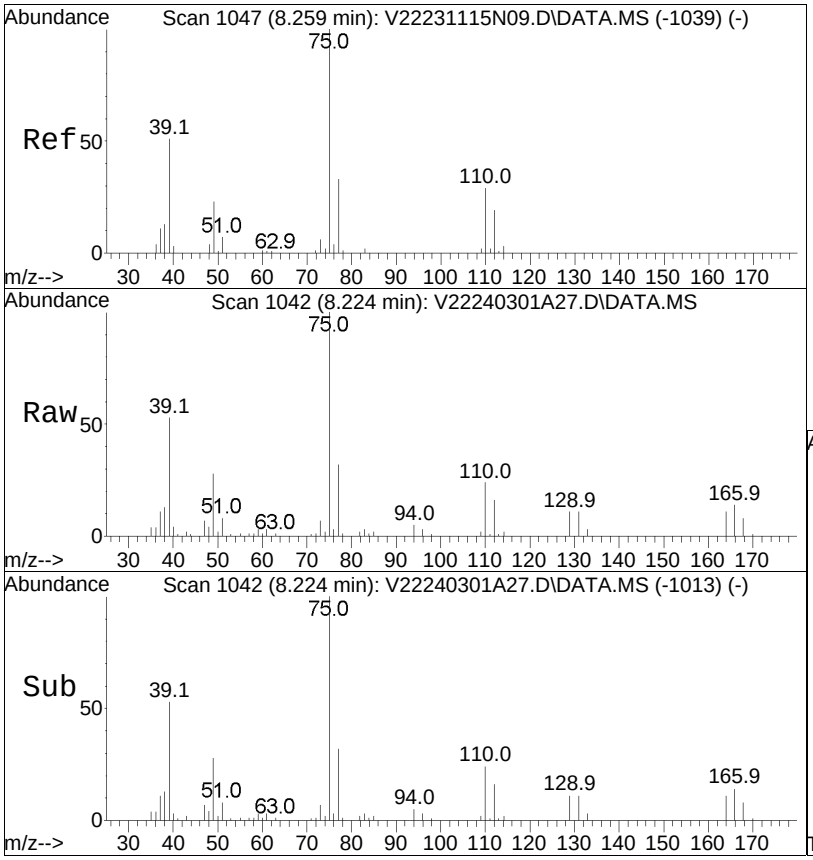


#66
Tetrachloroethene
Concen: 11.55 ug/L
RT: 8.196 min Scan# 1038
Delta R.T. -0.000 min
Lab File: V22240301A27.D
Acq: 01 Mar 2024 07:03 pm

Tgt Ion:166 Resp: 75912

Ion	Ratio	Lower	Upper
166	100		
168	47.4	27.8	67.8
94	41.5	16.7	56.7

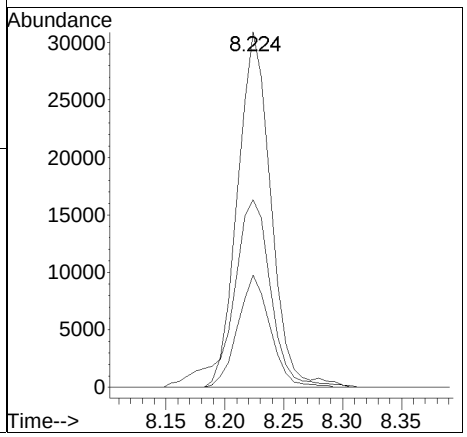


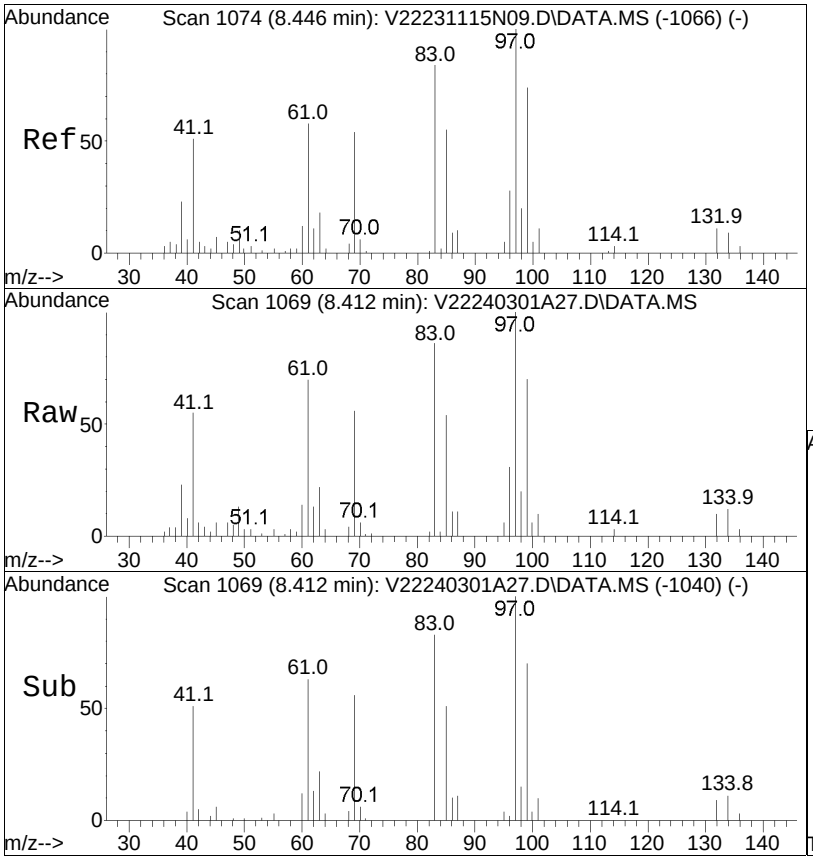


#68
trans-1,3-Dichloropropene
Concen: 8.21 ug/L
RT: 8.224 min Scan# 1042
Delta R.T. -0.000 min
Lab File: V22240301A27.D
Acq: 01 Mar 2024 07:03 pm

Tgt Ion: 75 Resp: 60879

Ion	Ratio	Lower	Upper
75	100		
77	30.9	11.9	51.9
39	60.7	27.4	67.4

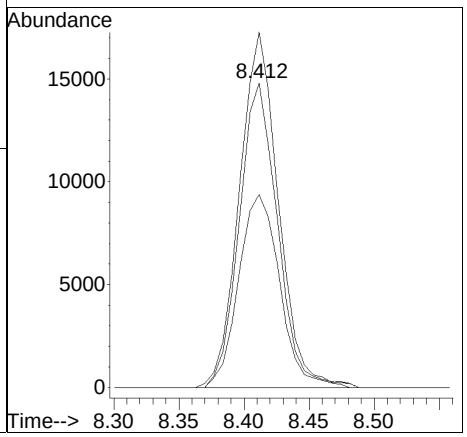


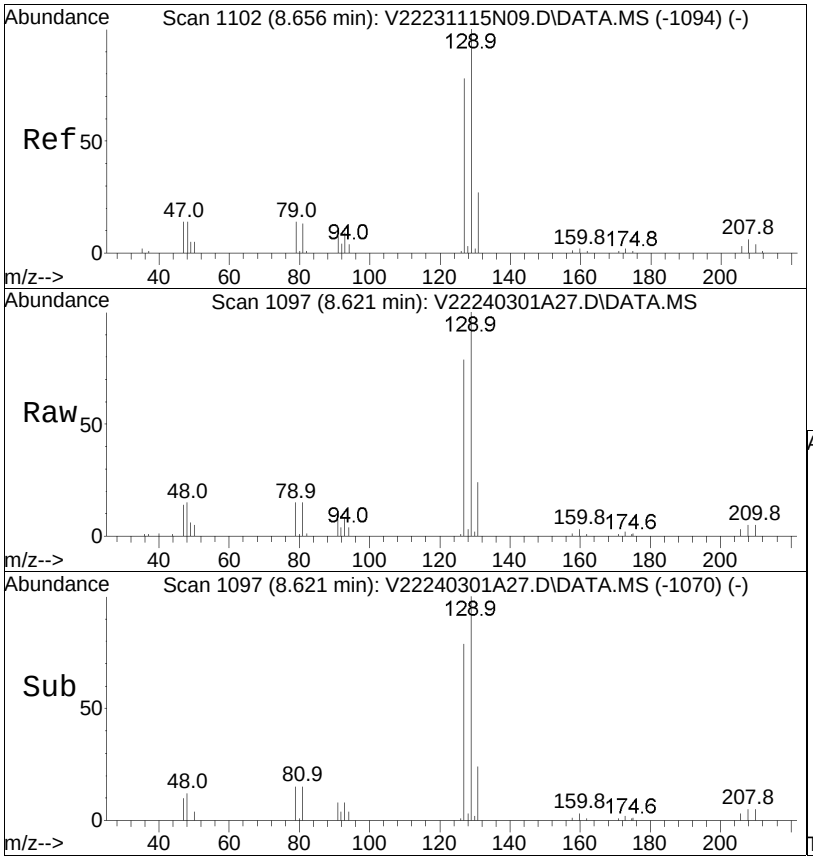


#71
1,1,2-Trichloroethane
Concen: 8.50 ug/L
RT: 8.412 min Scan# 1069
Delta R.T. -0.000 min
Lab File: V22240301A27.D
Acq: 01 Mar 2024 07:03 pm

Tgt Ion: 83 Resp: 30258

Ion	Ratio	Lower	Upper
83	100		
97	118.8	103.4	143.4
85	68.1	47.9	87.9

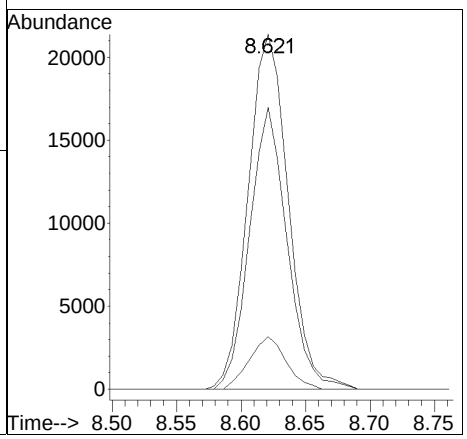


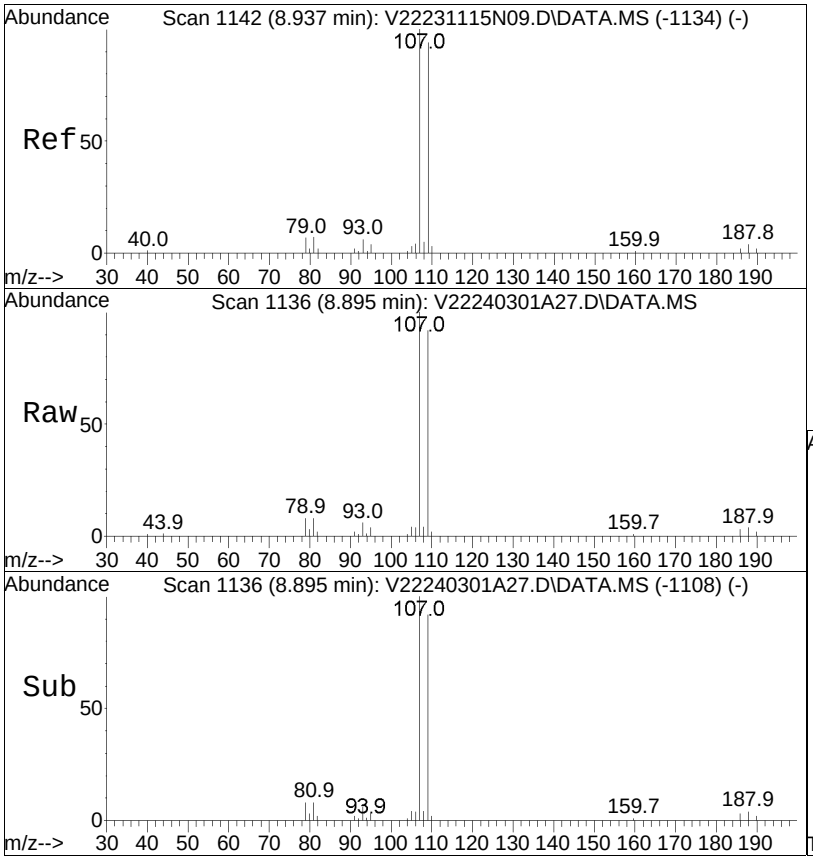


#72
Chlorodibromomethane
Concen: 8.17 ug/L
RT: 8.621 min Scan# 1097
Delta R.T. -0.000 min
Lab File: V22240301A27.D
Acq: 01 Mar 2024 07:03 pm

Tgt Ion:129 Resp: 46443

Ion	Ratio	Lower	Upper
129	100		
81	13.6	0.0	33.8
127	74.2	57.1	97.1

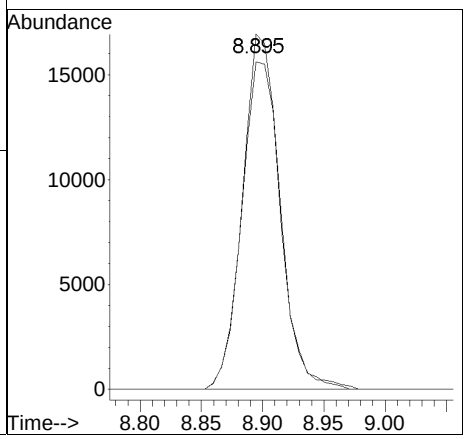


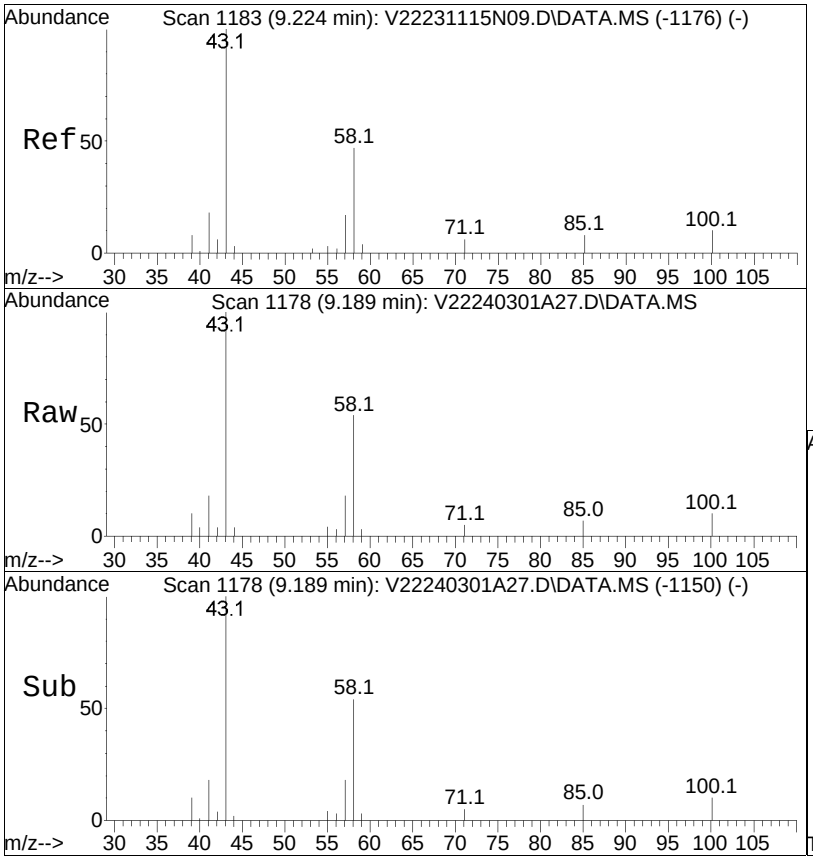


#74
1,2-Dibromoethane
Concen: 8.86 ug/L
RT: 8.895 min Scan# 1136
Delta R.T. -0.007 min
Lab File: V22240301A27.D
Acq: 01 Mar 2024 07:03 pm

Tgt Ion:107 Resp: 36136

Ion	Ratio	Lower	Upper
107	100		
109	95.8	75.1	112.7

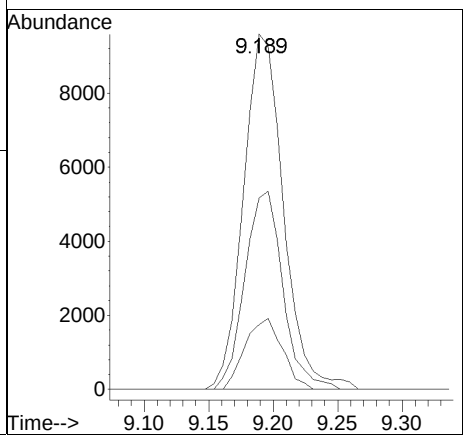


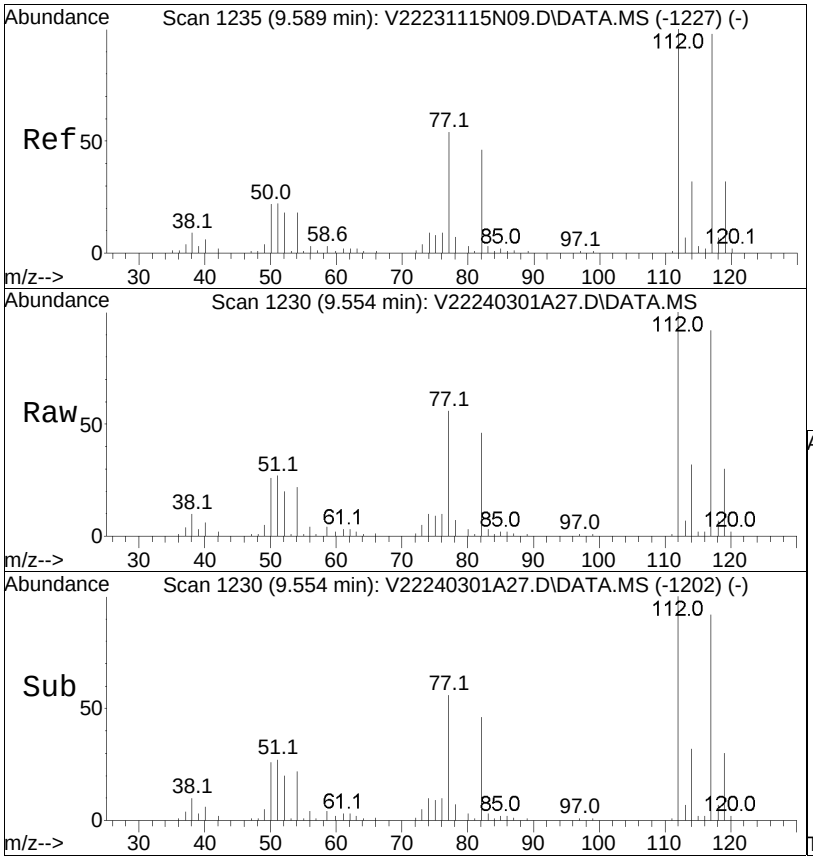


#76
2-Hexanone
Concen: 9.70 ug/L
RT: 9.189 min Scan# 1178
Delta R.T. -0.007 min
Lab File: V22240301A27.D
Acq: 01 Mar 2024 07:03 pm

Tgt Ion: 43 Resp: 20696

Ion	Ratio	Lower	Upper
43	100		
58	53.1	47.6	71.4
57	18.7	16.6	24.8

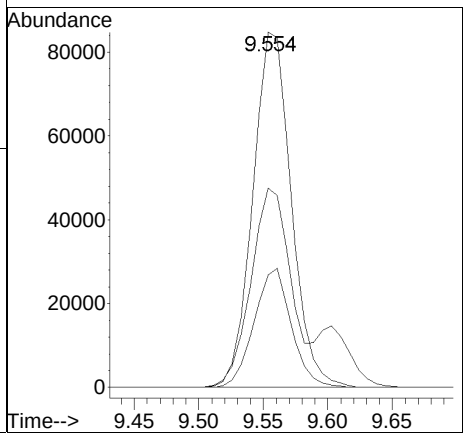


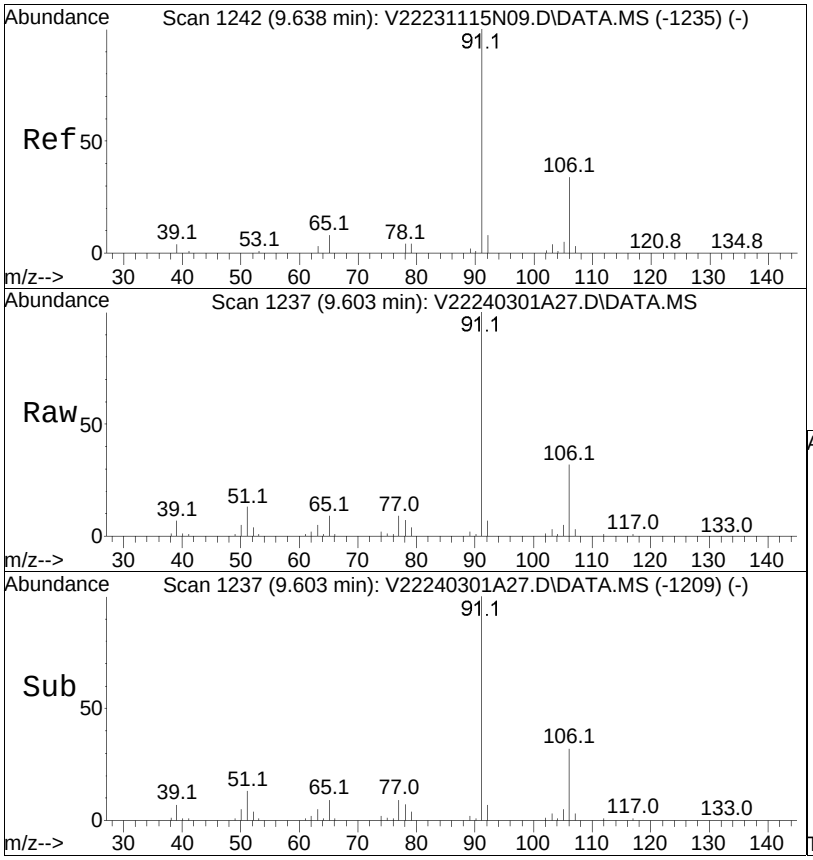


#77
Chlorobenzene
Concen: 9.79 ug/L
RT: 9.554 min Scan# 1230
Delta R.T. -0.007 min
Lab File: V22240301A27.D
Acq: 01 Mar 2024 07:03 pm

Tgt Ion:112 Resp: 175917

Ion	Ratio	Lower	Upper
112	100		
77	59.6	55.4	83.0
114	32.3	26.2	39.4

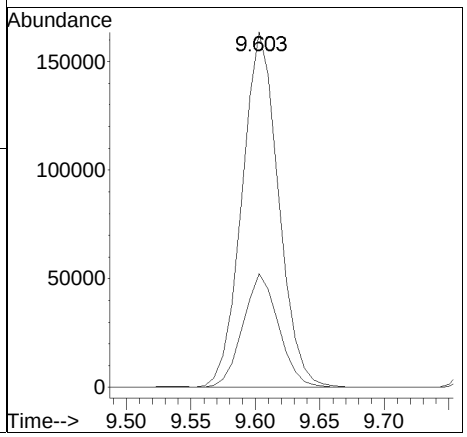


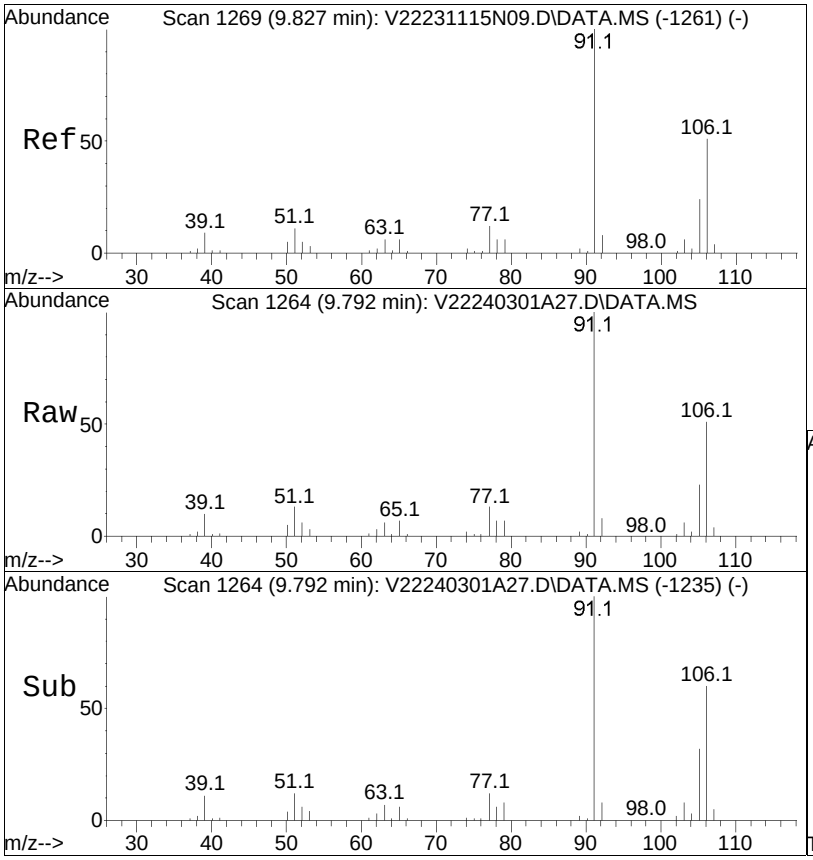


#78
Ethylbenzene
Concen: 10.70 ug/L
RT: 9.603 min Scan# 1237
Delta R.T. -0.007 min
Lab File: V22240301A27.D
Acq: 01 Mar 2024 07:03 pm

Tgt Ion: 91 Resp: 322356

Ion	Ratio	Lower	Upper
91	100		
106	31.3	25.8	38.6

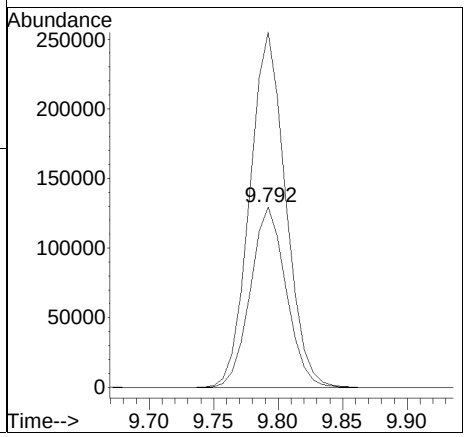


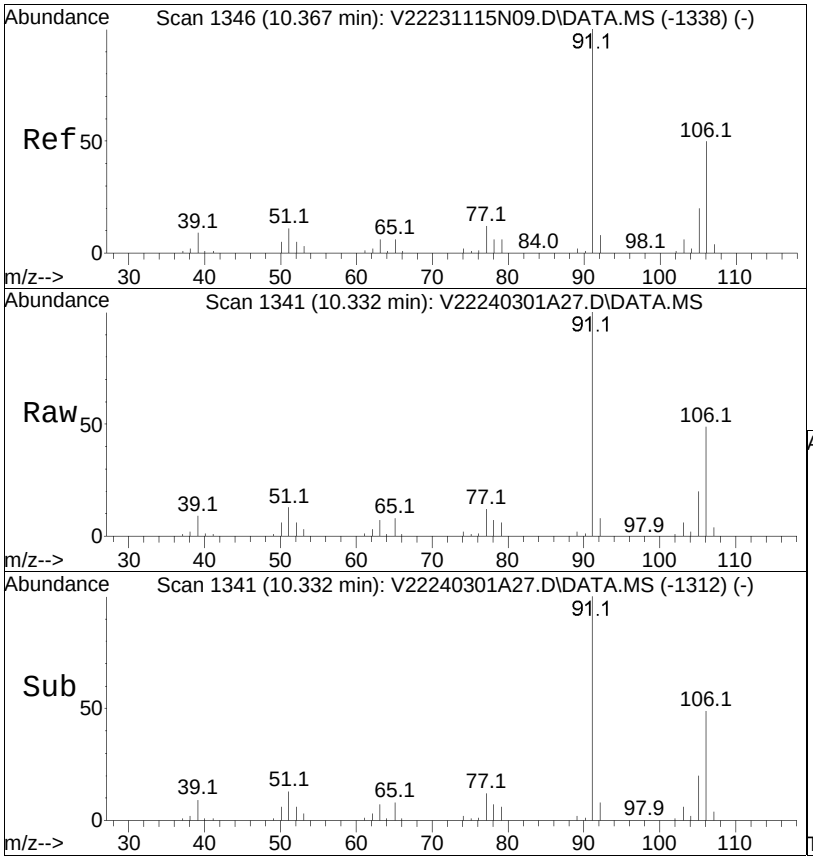


#80
p/m Xylene
Concen: 20.92 ug/L
RT: 9.792 min Scan# 1264
Delta R.T. -0.000 min
Lab File: V22240301A27.D
Acq: 01 Mar 2024 07:03 pm

Tgt Ion:106 Resp: 249860

Ion	Ratio	Lower	Upper
106	100		
91	197.5	156.0	234.0

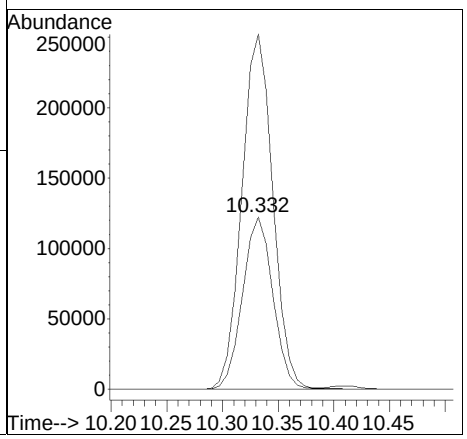


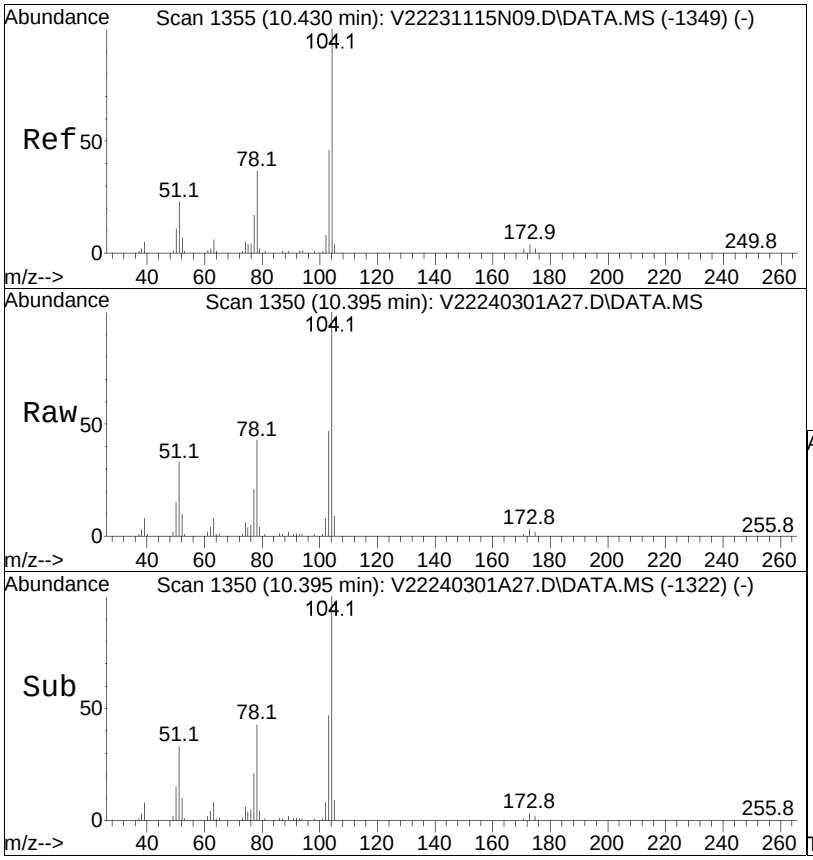


#81
o Xylene
Concen: 20.24 ug/L
RT: 10.332 min Scan# 1341
Delta R.T. -0.000 min
Lab File: V22240301A27.D
Acq: 01 Mar 2024 07:03 pm

Tgt Ion:106 Resp: 232947

Ion	Ratio	Lower	Upper
106	100		
91	209.2	164.0	246.0

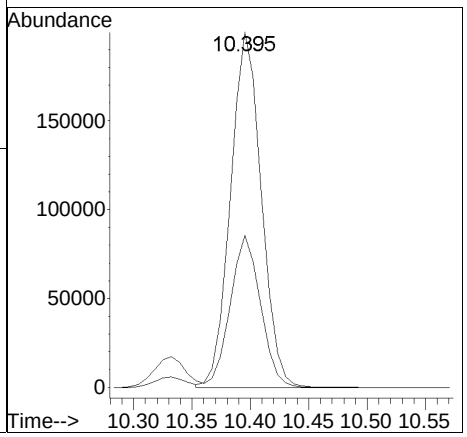


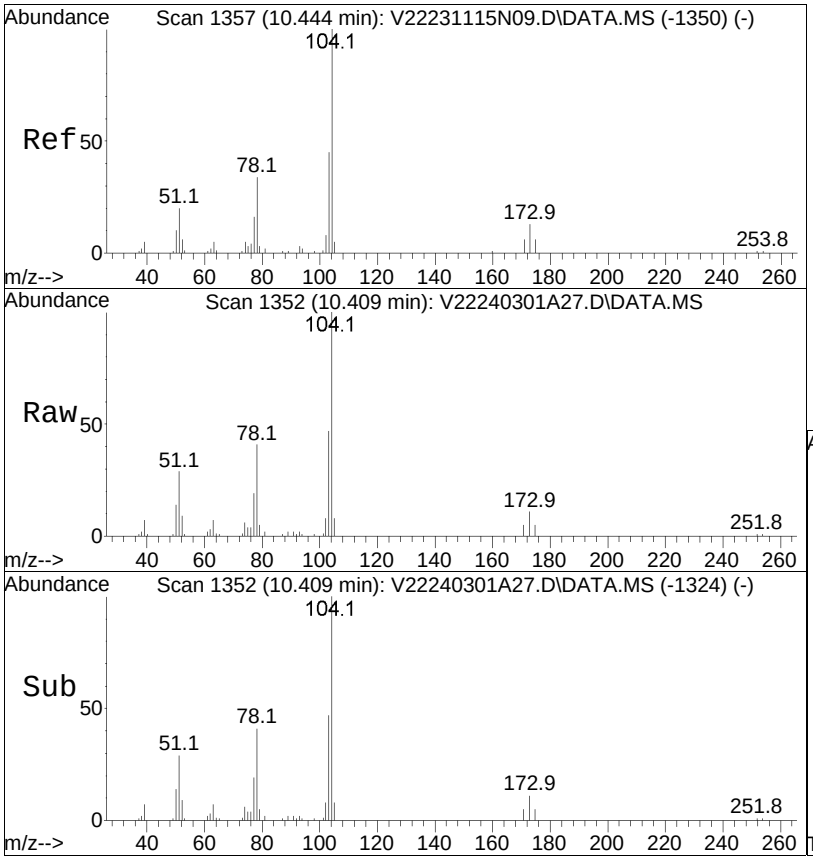


#82
Styrene
Concen: 19.75 ug/L
RT: 10.395 min Scan# 1350
Delta R.T. -0.007 min
Lab File: V22240301A27.D
Acq: 01 Mar 2024 07:03 pm

Tgt Ion:104 Resp: 366210

Ion	Ratio	Lower	Upper
104	100		
78	42.0	32.1	48.1

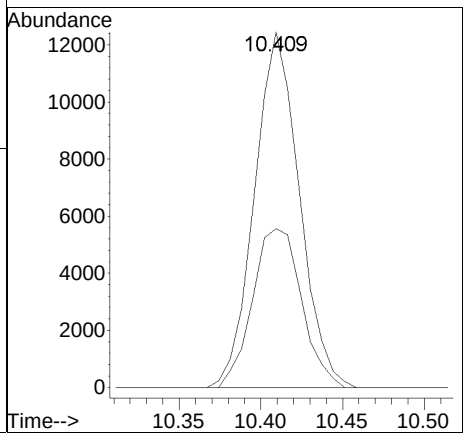


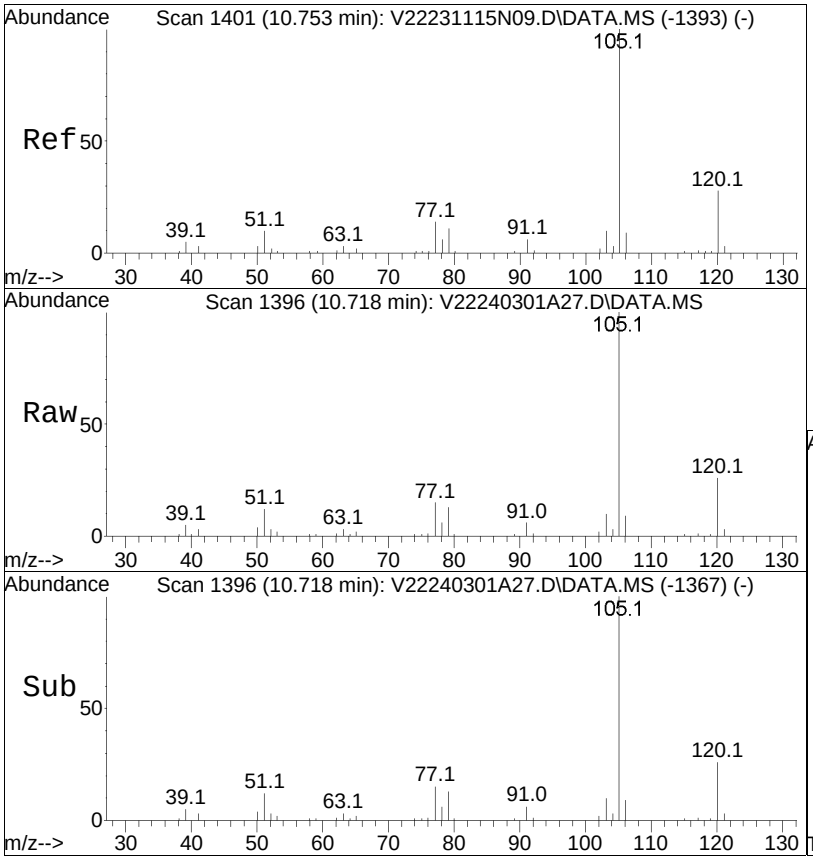


#84
Bromoform
Concen: 7.94 ug/L
RT: 10.409 min Scan# 1352
Delta R.T. -0.007 min
Lab File: V22240301A27.D
Acq: 01 Mar 2024 07:03 pm

Tgt Ion:173 Resp: 23728

Ion	Ratio	Lower	Upper
173	100		
175	48.8	29.3	69.3

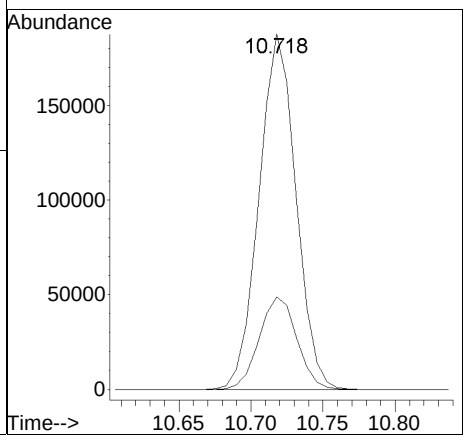


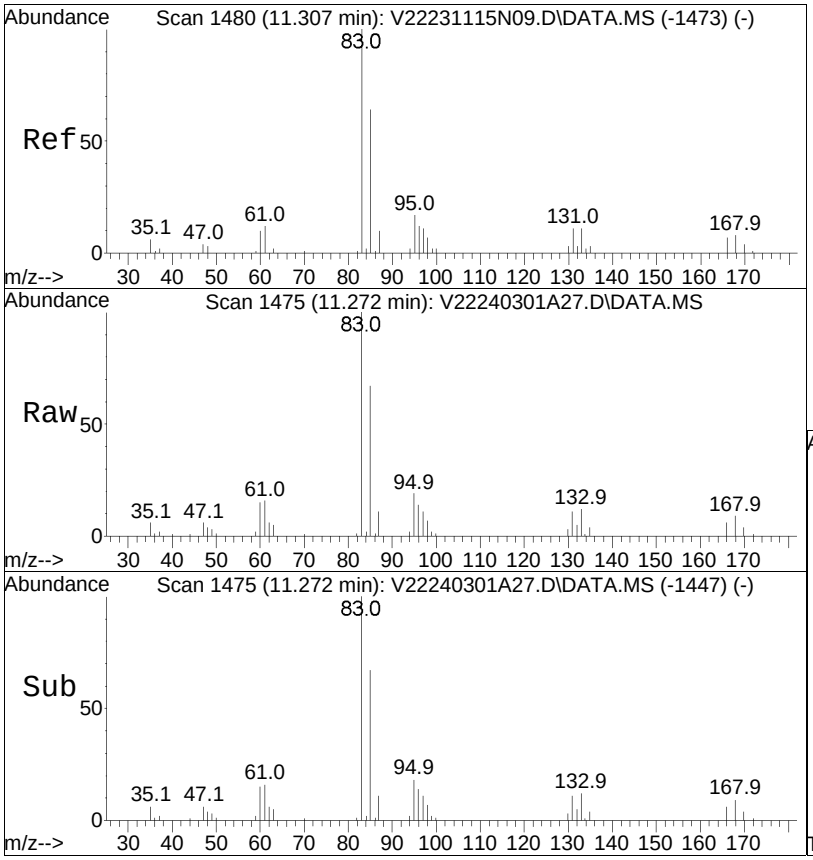


#86
Isopropylbenzene
Concen: 10.75 ug/L
RT: 10.718 min Scan# 1396
Delta R.T. -0.000 min
Lab File: V22240301A27.D
Acq: 01 Mar 2024 07:03 pm

Tgt Ion:105 Resp: 334097

Ion	Ratio	Lower	Upper
105	100		
120	26.5	7.7	47.7

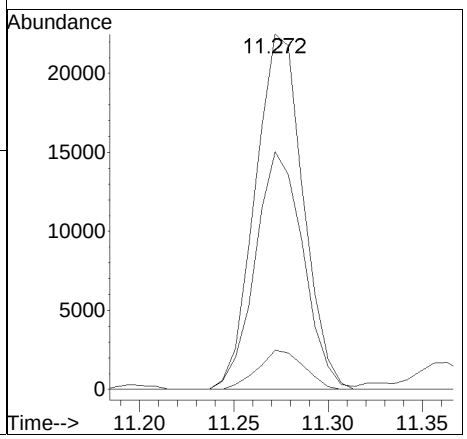


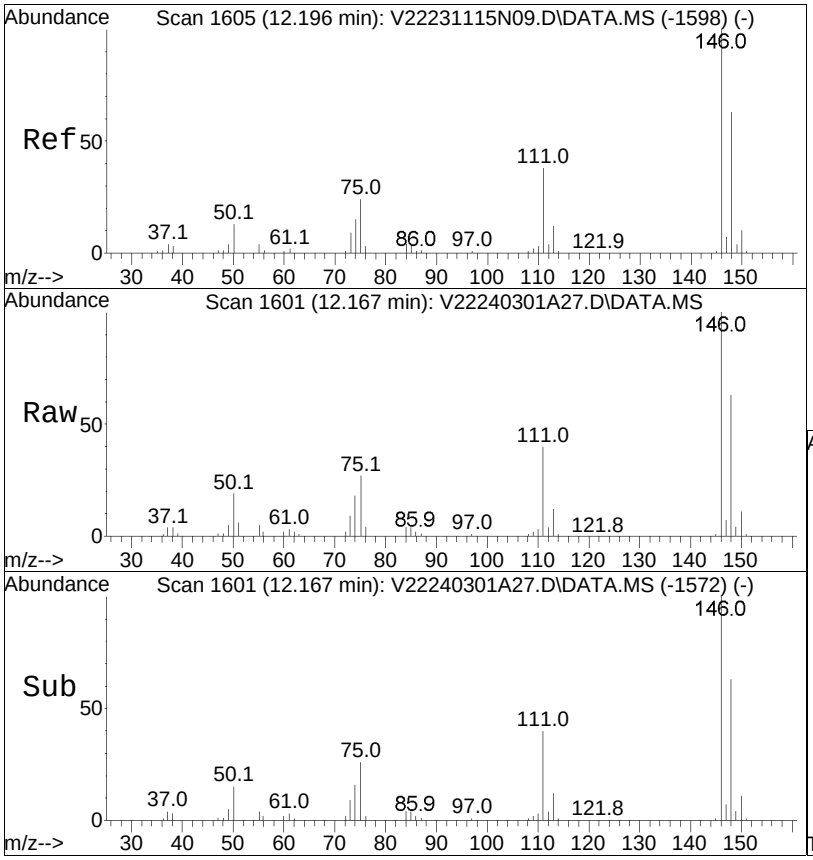


#91
1,1,2,2-Tetrachloroethane
Concen: 9.53 ug/L
RT: 11.272 min Scan# 1475
Delta R.T. -0.007 min
Lab File: V22240301A27.D
Acq: 01 Mar 2024 07:03 pm

Tgt Ion: 83 Resp: 39749

Ion	Ratio	Lower	Upper
83	100		
131	10.6	0.0	30.8
85	67.1	45.4	85.4

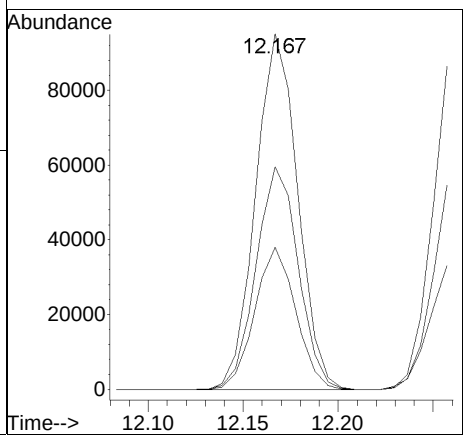


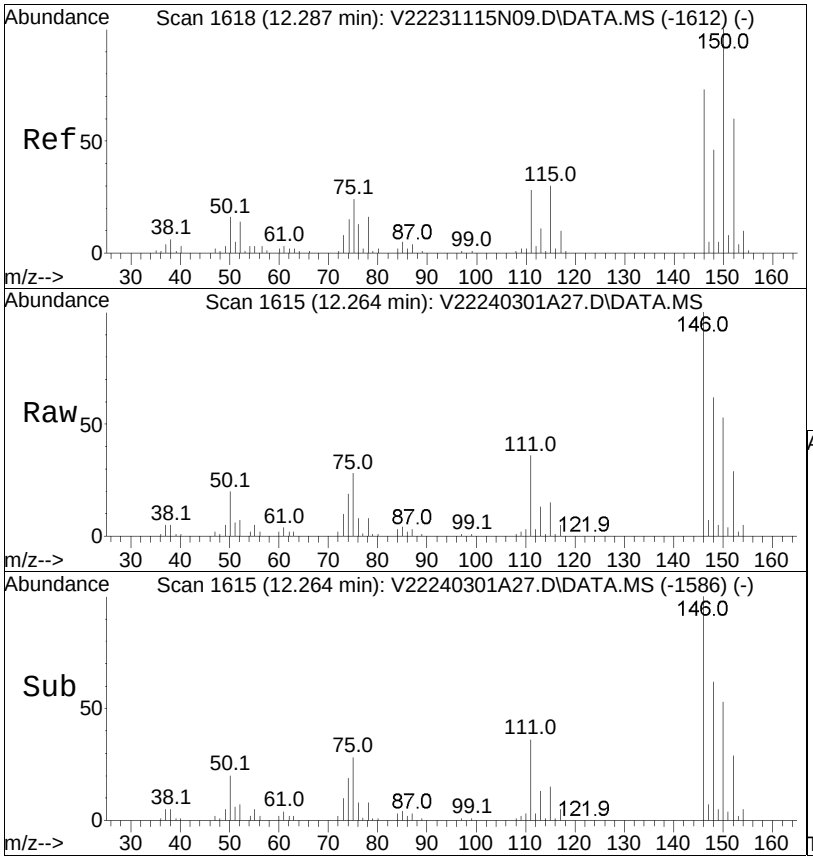


#104
1,3-Dichlorobenzene
Concen: 9.89 ug/L
RT: 12.167 min Scan# 1601
Delta R.T. -0.000 min
Lab File: V22240301A27.D
Acq: 01 Mar 2024 07:03 pm

Tgt Ion:146 Resp: 146031

Ion	Ratio	Lower	Upper
146	100		
111	39.0	24.0	49.8
148	63.0	41.8	86.8

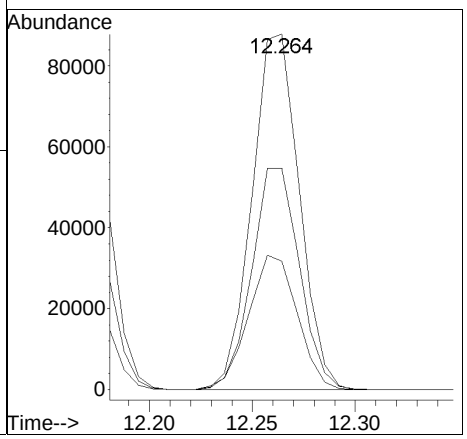


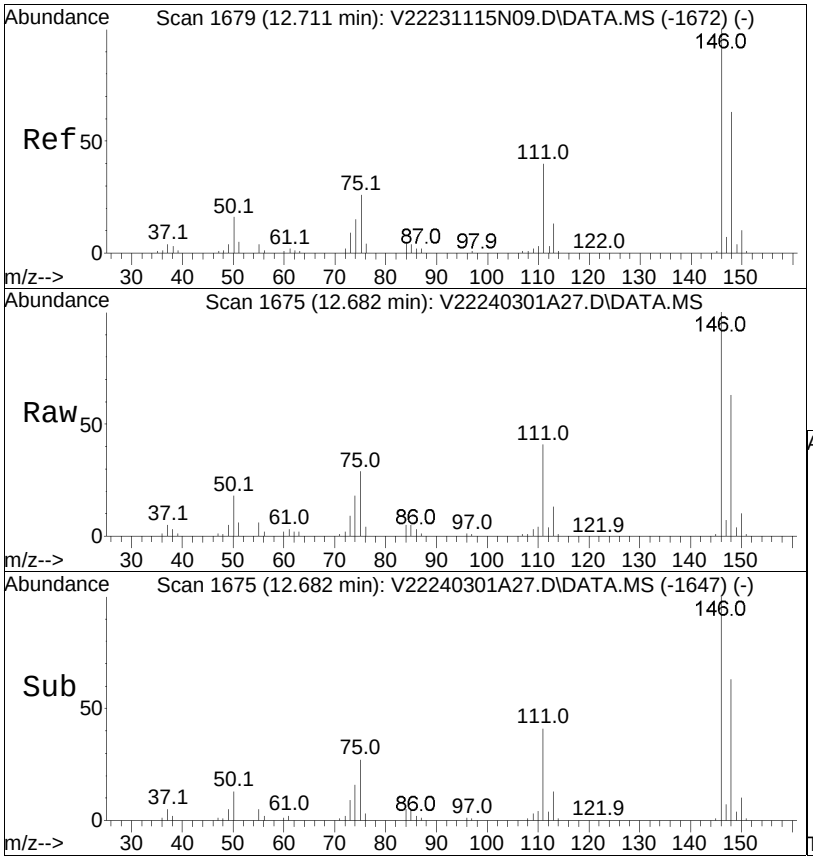


#105
1,4-Dichlorobenzene
Concen: 9.70 ug/L
RT: 12.264 min Scan# 1615
Delta R.T. -0.000 min
Lab File: V22240301A27.D
Acq: 01 Mar 2024 07:03 pm

Tgt Ion:146 Resp: 140547

Ion	Ratio	Lower	Upper
146	100		
111	38.9	28.9	43.3
148	62.8	51.4	77.2

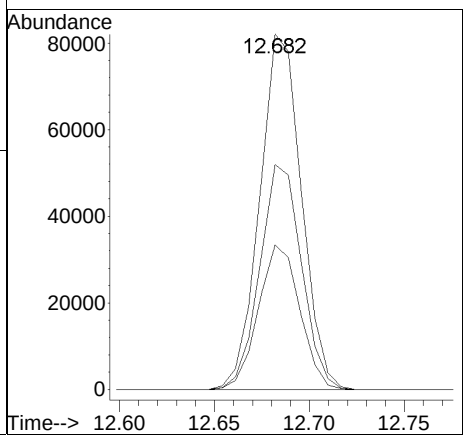


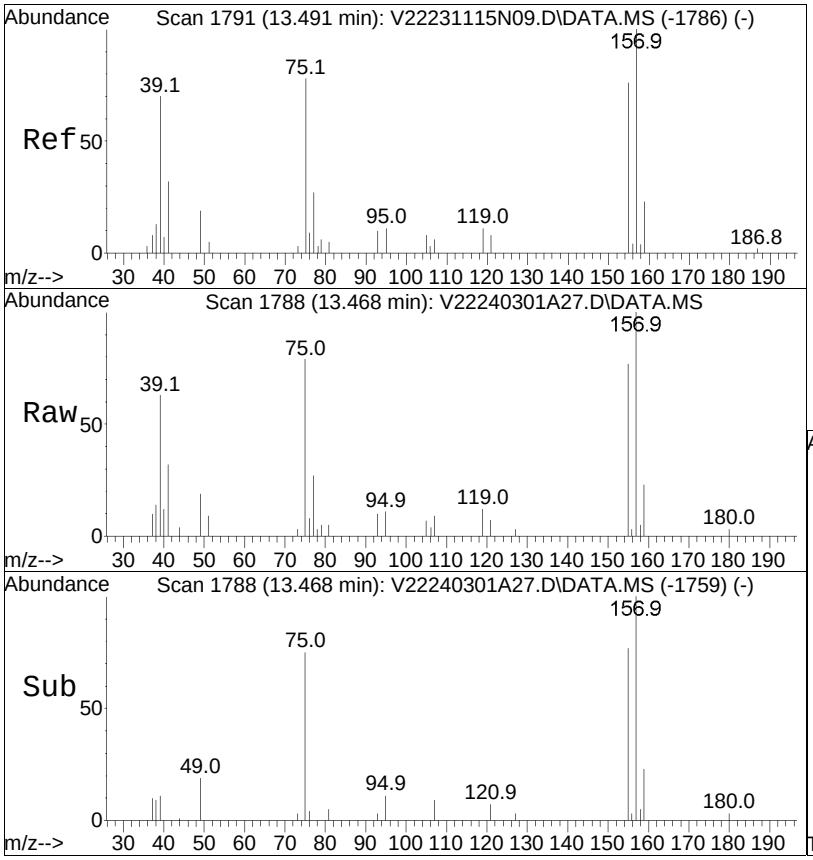


#108
1,2-Dichlorobenzene
Concen: 9.59 ug/L
RT: 12.682 min Scan# 1675
Delta R.T. -0.007 min
Lab File: V22240301A27.D
Acq: 01 Mar 2024 07:03 pm

Tgt Ion:146 Resp: 125366

Ion	Ratio	Lower	Upper
146	100		
111	40.4	24.8	51.6
148	63.2	42.2	87.6

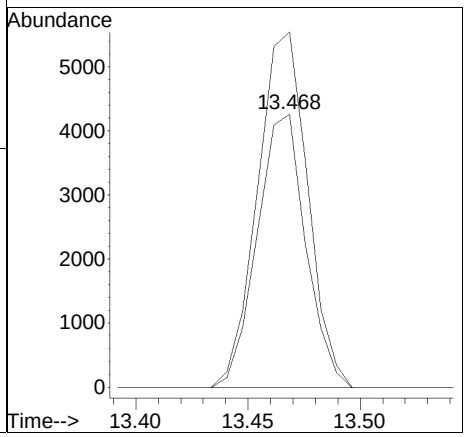


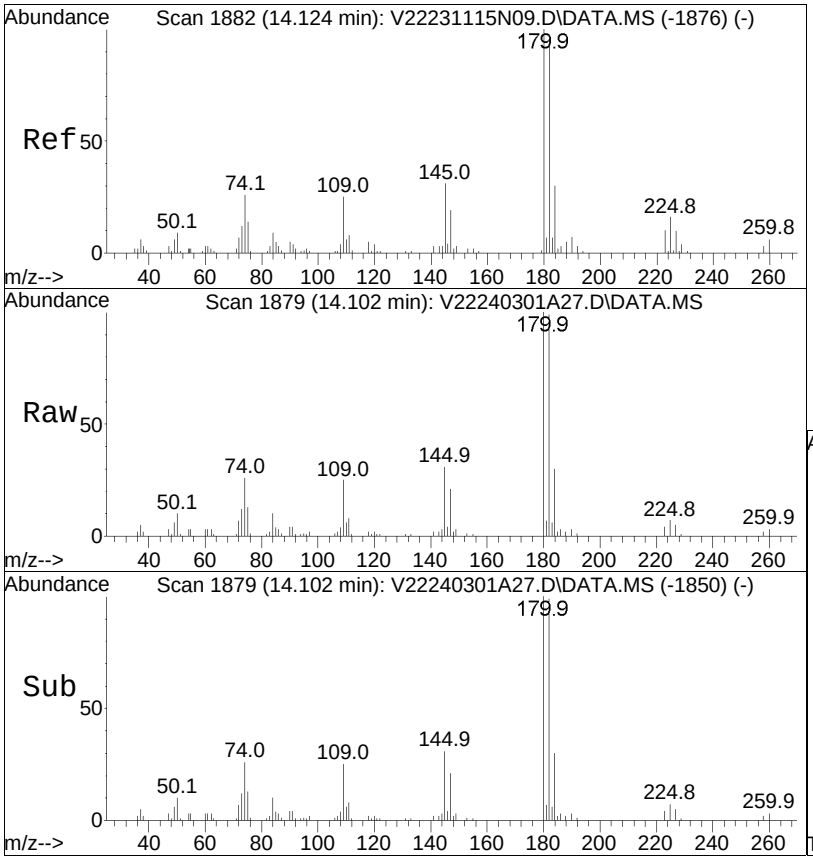


#110
1,2-Dibromo-3-chloropropane
Concen: 7.55 ug/L
RT: 13.468 min Scan# 1788
Delta R.T. -0.000 min
Lab File: V22240301A27.D
Acq: 01 Mar 2024 07:03 pm

Tgt Ion:155 Resp: 6413

Ion	Ratio	Lower	Upper
155	100		
157	134.3	102.3	153.5

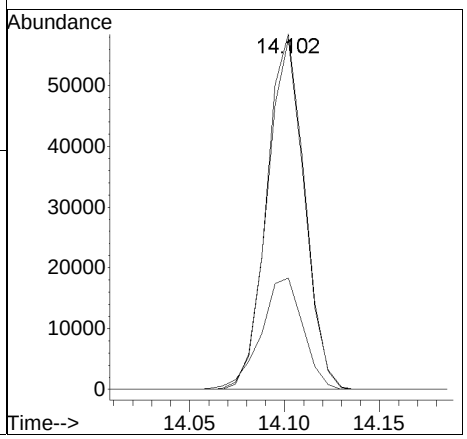


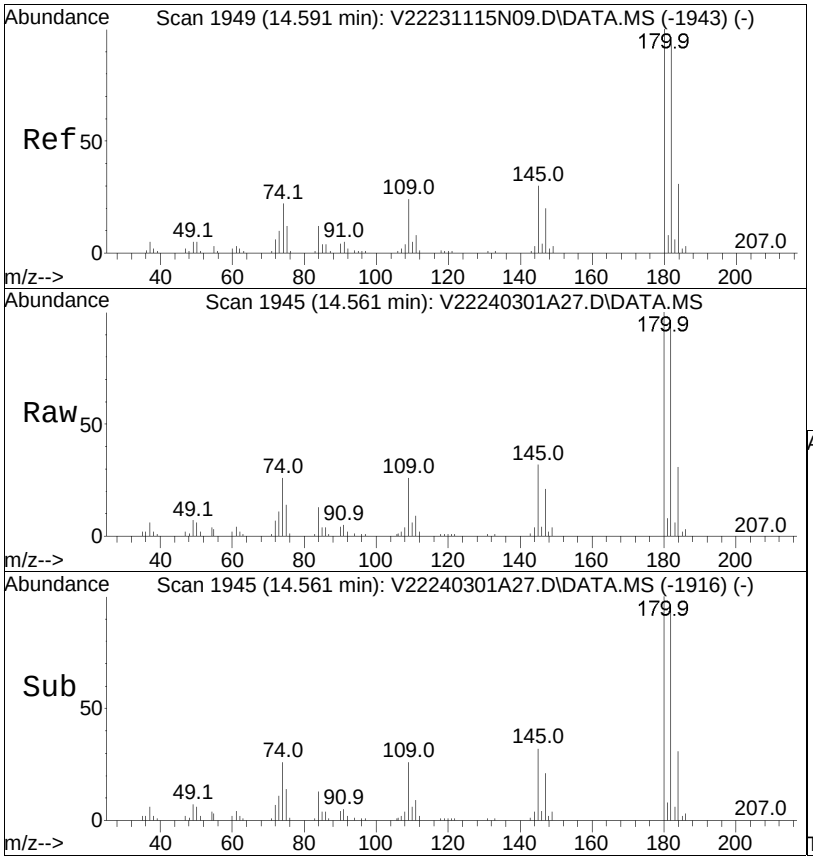


#113
1,2,4-Trichlorobenzene
Concen: 10.48 ug/L
RT: 14.102 min Scan# 1879
Delta R.T. -0.000 min
Lab File: V22240301A27.D
Acq: 01 Mar 2024 07:03 pm

Tgt Ion:180 Resp: 81023

Ion	Ratio	Lower	Upper
180	100		
182	96.9	76.6	114.8
145	34.9	25.5	38.3

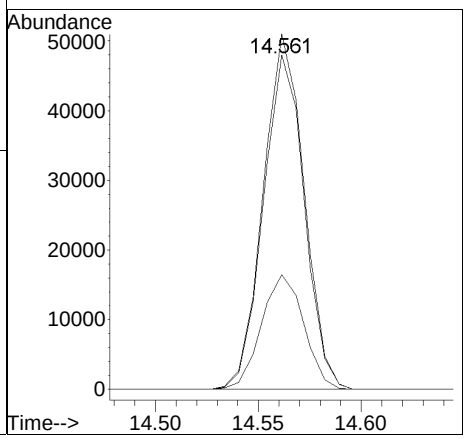




#115
1,2,3-Trichlorobenzene
Concen: 10.59 ug/L
RT: 14.561 min Scan# 1945
Delta R.T. -0.000 min
Lab File: V22240301A27.D
Acq: 01 Mar 2024 07:03 pm

Tgt Ion:180 Resp: 70469

Ion	Ratio	Lower	Upper
180	100		
182	94.2	76.0	114.0
145	33.4	23.8	35.8



Calculation of Volatile Organic Compounds

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

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

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

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

ALPHA ANALYTICAL LABORATORIES, INC.

Alpha WORK GROUP REPORT (wk02)

Nov 04 2024, 02:57 pm

Work Group: WG1891888 for Department: 31 GC/MS - Volatiles

Created: 04-MAR-24 Due: Operator: mjv

Sample	Client ID	C	Product	Matrix	Stat	UA	HOLD	DUE	PR	Location
L2410579-01	MW-1S	S	NYTCL-8260-R2	WATER	DONE	U	0311	0305	S0	Vial-B
L2410579-02	MW-2S	S	NYTCL-8260-R2	WATER	DONE	U	0311	0305	S0	Vial-B
L2410579-03	MW-3S	S	NYTCL-8260-R2	WATER	DONE	U	0311	0305	S0	Vial-B
L2410579-04	MW-4D	S	NYTCL-8260-R2	WATER	DONE	U	0312	0305	S0	Vial-B
L2410579-05	MW-5S	S	NYTCL-8260-R2	WATER	DONE	U	0312	0305	S0	Vial-B
L2410579-06	MW-6D	S	NYTCL-8260-R2	WATER	DONE	U	0311	0305	S0	Vial-B
L2410579-07	MW-7S	S	NYTCL-8260-R2	WATER	DONE	U	0311	0305	S0	Vial-B
L2410579-08	MW-8S	S	NYTCL-8260-R2	WATER	DONE	U	0312	0305	S0	Vial-B
L2410579-09	DUP	S	NYTCL-8260-R2	WATER	DONE	U	0311	0305	S0	Vial-B
L2410579-10	EB	S	NYTCL-8260-R2	WATER	DONE	U	0312	0305	S0	Vial-B
L2410579-11	TB	S	NYTCL-8260-R2	WATER	DONE	U	0311	0305	S0	Vial-B
WG1891888-1	MS BFB Tune Standard	S	NYTCL-8260-R2	WATER	DONE	U				
WG1891888-2	Continuing Calibrati	S	NYTCL-8260-R2	WATER	DONE	U				
WG1891888-3	Laboratory Control S	S	NYTCL-8260-R2	WATER	DONE	U				
WG1891888-4	LCS Duplicate	S	NYTCL-8260-R2	WATER	DONE	U				
WG1891888-5	Laboratory Method Bl	S	NYTCL-8260-R2	WATER	DONE	U				
WG1891888-6	Matrix Spike	S	NYTCL-8260-R2	WATER	DONE	U				
WG1891888-7	Matrix Spike Duplica	S	NYTCL-8260-R2	WATER	DONE	U				

Comments:

WG1891888-4	WG1891888-3
WG1891888-6	L2410579-08
WG1891888-7	L2410579-08

Inst: VOA122 BFB: V10171 Method GC: 8260
Initials: RAW/MAG IS/SS: V10181 Autosampler: 8260_WATER
Date: **01/22/24** CCAL: V10178D,V10205 Concentrator: 8260 v122
Run **N** ICV: V10184,V10149,V10152,V10198,V10150,V10151 QC:_____ Seq:_____

Vial	Data File	Sample	pH<2
1	V22240122NBF1	BFB TUNE	
1	V22240122N01	BLK	
2	V22240122N02	BLK	
3	V22240122N03	I8260STD0.19PPB	
4	V22240122N04	I8260STD0.19PPB	
5	V22240122N05	I8260STD0.5PPB	
6	V22240122N06	I8260STD0.5PPB	
7	V22240122N07	I8260STD2PPB	
8	V22240122N08	I8260STD10PPB	
9	V22240122N09	I8260STD30PPB	
10	V22240122N10	I8260STD80PPB	
11	V22240122N11	I8260STD120PPB	
12	V22240122N12	I8260STD200PPB	
13	V22240122N13	BLK	
14	V22240122N14	BLK	
15	V22240122N15	BLK	
16	V22240122N16	BLK	
17	V22240122N17	C8260STD10PPB	
18	V22240122N18	C8260STD10PPB	
19	V22240122N19	BLK	
20	V22240122N20	METHOD BLK	
21	V22240122N21	MDL L11	
22	V22240122N22	MDL L1	
23	V22240122N23	MDL L2	
24	V22240122N24	BLK	
1	V22240123NBF1	BFB TUNE	
1	V22240123N01	BLK	
2	V22240123N02	BLK	
3	V22240123N03	I8260STD0.5PPB	
4	V22240123N04	I8260STD0.5PPB	
5	V22240123N05	BLK	
6	V22240123N06	C8260STD10PPB	
7	V22240123N07	C8260STD10PPB	
8	V22240123N08	BLK	
9	V22240123N09	METHOD BLK	
10	V22240123N10	MDL LVL 11	
11	V22240123N11	MDL LVL 1	
12	V22240123N12	MDL LVL 2	

Method

Inst: VOA122 BFB: V10171 GC: 8260

Initials: RAW/MAG IS/SS: V10181 Autosampler: 8260_WATER

Date: **01/22/24** CCAL: V10178D,V10205 Concentrator: 8260 v122

Run **N** ICV: V10184,V10149,V10152,V10198,V10150,V10151 QC:_____ Seq:_____

Vial	Data File	Sample	pH<2
13	V22240123N13	BLK	

Inst: VOA122 BFB: V10232 Method GC: 8260
Initials: PID IS/SS: V10272 Autosampler: 8260_WATER
Date: **03/01/24** CCAL: V10260A,V10261 Concentrator: 8260 v122
Run **A** QC:_____ Seq:_____

Vial	Data File	Sample			pH<2
1	V22240301ABF1	BFB TUNE 08:17			
1	V22240301A01	8260 CCAL LCS			
2	V22240301A02	8260 CCAL LCSD			
3	V22240301A03	8260 CCAL			
4	V22240301A04	BLK			
5	V22240301A05	METHOD BLK			
6	V22240301A06	L2410579-01,31,10,10,,A	NY/R2		pH<2
7	V22240301A07	L2410579-02,31,10,10,,A	NY/R2		pH<2
8	V22240301A08	L2410579-03,31,10,10,,A	NY/R2		pH<2
9	V22240301A09	L2410579-04,31,10,10,,A	NY/R2		pH<2
10	V22240301A10	L2410579-05,31,10,10,,A	NY/R2		pH<2
11	V22240301A11	L2410579-06,31,10,10,,A	NY/R2		pH<2
12	V22240301A12	L2410579-07,31,10,10,,A	NY/R2		pH<2
13	V22240301A13	L2410579-08,31,10,10,,A	NY/R2		pH<2
14	V22240301A14	L2410579-09,31,10,10,,A	NY/R2		pH<2
15	V22240301A15	L2410579-10,31,10,10,,A	NY/R2		pH<2
16	V22240301A16	L2410579-11,31,10,10,,A	NY/R2	TB	pH<2
17	V22240301A17	L2410731-01,31,10,10,,A	NJ-3/15/JB	TB	pH<2
18	V22240301A18	L2410731-02,31,10,10,,A	NJ-3/15/JB	FB	pH<2
19	V22240301A19	L2410731-03,31,10,10,,A	NJ-3/15/JB		pH<2
20	V22240301A20	L2410731-04,31,10,10,,A	NJ-3/15/JB		pH<2
21	V22240301A21	L2410731-06,31,10,10,,A	NJ-3/15/JB		pH<2
22	V22240301A22	L2410731-07,31,10,10,,A	NJ-3/15/JB		pH<2
23	V22240301A23	L2410731-08,31,10,10,,A	NJ-3/15/JB		pH<2
24	V22240301A24	L2410731-09,31,10,10,,A	NJ-3/15/JB		pH<2
25	V22240301A25	L2410731-10,31,10,10,,A	NJ-3/15/JB		pH<2
26	V22240301A26	L2410579-08MS,31,10,10,,A1	NY/R2		pH<2
27	V22240301A27	L2410579-08MSD,31,10,10,,A2	NY/R2		pH<2
28	V22240301A28	HSTD			
29	V22240301A29	BLK			
30	V22240301A30	BLK			

Semivolatiles Data- Method 8270

Semivolatiles QC Summary

Laboratory Control Sample Summary
Form 3
Semivolatiles

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Matrix (Level)	: WATER (LOW)		
LCS Sample ID	: WG1891419-2 Analysis Date : 03/02/24 16:31	**File ID**	: 891419-2
LCSD Sample ID	: WG1891419-3 Analysis Date : 03/02/24 16:54	**File ID**	: 891419-3

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	True (ug/l)	Found (ug/l)	%R	True (ug/l)	Found (ug/l)	%R	RPD	Recovery Limits	RPD Limit
Bis(2-chloroethyl)ether	18	10.	56	18	10.	55	2	40-140	30
3,3'-Dichlorobenzidine	18	9.8	54	18	9.9	55	2	40-140	30
2,4-Dinitrotoluene	18	10.	58	18	11.	59	2	48-143	30
2,6-Dinitrotoluene	18	12.	65	18	12.	63	3	40-140	30
4-Chlorophenyl phenyl ether	18	11.	63	18	12.	66	5	40-140	30
4-Bromophenyl phenyl ether	18	12.	64	18	12.	66	3	40-140	30
Bis(2-chloroisopropyl)ether	18	9.7	54	18	10.	55	2	40-140	30
Bis(2-chloroethoxy)methane	18	10.	56	18	11.	61	9	40-140	30
Hexachlorocyclopentadiene	18	10.	56	18	11.	62	10	40-140	30
Isophorone	18	10.	55	18	11.	59	7	40-140	30
Nitrobenzene	18	9.8	54	18	10.	56	4	40-140	30
NDPA/DPA	18	12.	64	18	12.	66	3	40-140	30
n-Nitrosodi-n-propylamine	18	10.	56	18	11.	61	9	29-132	30
Bis(2-ethylhexyl)phthalate	18	10.	56	18	10.	56	0	40-140	30
Butyl benzyl phthalate	18	10.	58	18	10.	57	2	40-140	30
Di-n-butylphthalate	18	10.	58	18	11.	58	0	40-140	30
Di-n-octylphthalate	18	10.	58	18	11.	58	0	40-140	30
Diethyl phthalate	18	11.	62	18	11.	63	2	40-140	30
Dimethyl phthalate	18	12.	66	18	12.	66	0	40-140	30
Biphenyl	18	12.	63	18	12.	65	3	40-140	30
4-Chloroaniline	18	9.3	51	18	10.	58	13	40-140	30
2-Nitroaniline	18	11.	63	18	12.	65	3	52-143	30
3-Nitroaniline	18	11.	60	18	11.	60	0	25-145	30
4-Nitroaniline	18	11.	59	18	12.	66	11	51-143	30
Dibenzofuran	18	11.	60	18	12.	64	6	40-140	30
1,2,4,5-Tetrachlorobenzene	18	11.	62	18	12.	65	5	2-134	30

Laboratory Control Sample Summary
Form 3
Semivolatiles

Client : Alpha Geoscience **Lab Number** : L2410579
Project Name : HUNTINGTON READY MIX **Project Number** : 20116
Matrix (Level) : WATER (LOW)
LCS Sample ID : WG1891419-2 **Analysis Date** : 03/02/24 16:31 **File ID** : 891419-2
LCSD Sample ID : WG1891419-3 **Analysis Date** : 03/02/24 16:54 **File ID** : 891419-3

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	True (ug/l)	Found (ug/l)	%R	True (ug/l)	Found (ug/l)	%R	RPD	Recovery Limits	RPD Limit
Acetophenone	18	11.	59	18	11.	62	5	39-129	30
2,4,6-Trichlorophenol	18	12.	65	18	12.	69	6	30-130	30
p-Chloro-m-cresol	18	11.	62	18	12.	65	5	23-97	30
2-Chlorophenol	18	11.	59	18	11.	62	5	27-123	30
2,4-Dichlorophenol	18	11.	61	18	12.	65	6	30-130	30
2,4-Dimethylphenol	18	11.	62	18	12.	68	9	30-130	30
2-Nitrophenol	18	11.	59	18	11.	60	2	30-130	30
4-Nitrophenol	18	10.	56	18	10.	56	0	10-80	30
2,4-Dinitrophenol	18	9.8	54	18	9.8	54	0	20-130	30
4,6-Dinitro-o-cresol	18	11.	62	18	12.	66	6	20-164	30
Phenol	18	8.7	48	18	8.7	48	0	12-110	30
2-Methylphenol	18	10.	57	18	11.	61	7	30-130	30
3-Methylphenol/4-Methylphenol	18	11.	58	18	11.	60	3	30-130	30
2,4,5-Trichlorophenol	18	12.	66	18	12.	69	4	30-130	30
Carbazole	18	11.	60	18	11.	60	0	55-144	30
Atrazine	18	11.	62	18	12.	64	3	40-140	30
Benzaldehyde	18	20.	107	18	20.	108	1	40-140	30
Caprolactam	18	5.4	29	18	5.3	29	0	10-130	30
2,3,4,6-Tetrachlorophenol	18	12.	65	18	12.	68	5	40-140	30

Laboratory Control Sample Summary
Form 3
Semivolatiles

Client : Alpha Geoscience **Lab Number** : L2410579
Project Name : HUNTINGTON READY MIX **Project Number** : 20116
Matrix (Level) : WATER (LOW)
LCS Sample ID : WG1892048-2 **Analysis Date** : 03/05/24 05:19 **File ID** : 892048-2
LCSD Sample ID : WG1892048-3 **Analysis Date** : 03/05/24 05:43 **File ID** : 892048-3

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	True (ug/l)	Found (ug/l)	%R	True (ug/l)	Found (ug/l)	%R	RPD	Recovery Limits	RPD Limit
Bis(2-chloroethyl)ether	18	12.	66	18	13.	71	7	40-140	30
3,3'-Dichlorobenzidine	18	12.	69	18	14.	75	8	40-140	30
2,4-Dinitrotoluene	18	15.	82	18	15.	84	2	48-143	30
2,6-Dinitrotoluene	18	15.	83	18	15.	85	2	40-140	30
4-Chlorophenyl phenyl ether	18	14.	76	18	14.	78	3	40-140	30
4-Bromophenyl phenyl ether	18	14.	76	18	14.	76	0	40-140	30
Bis(2-chloroisopropyl)ether	18	13.	70	18	14.	79	12	40-140	30
Bis(2-chloroethoxy)methane	18	12.	68	18	14.	76	11	40-140	30
Hexachlorocyclopentadiene	18	11.	61	18	11.	63	3	40-140	30
Isophorone	18	12.	65	18	13.	72	10	40-140	30
Nitrobenzene	18	12.	69	18	14.	75	8	40-140	30
NDPA/DPA	18	13.	71	18	13.	72	1	40-140	30
n-Nitrosodi-n-propylamine	18	12.	66	18	14.	74	11	29-132	30
Bis(2-ethylhexyl)phthalate	18	14.	77	18	15.	83	8	40-140	30
Butyl benzyl phthalate	18	12.	65	18	12.	65	0	40-140	30
Di-n-butylphthalate	18	12.	67	18	12.	67	0	40-140	30
Di-n-octylphthalate	18	13.	73	18	15.	82	12	40-140	30
Diethyl phthalate	18	13.	73	18	13.	71	3	40-140	30
Dimethyl phthalate	18	14.	76	18	14.	76	0	40-140	30
Biphenyl	18	13.	71	18	14.	75	5	40-140	30
4-Chloroaniline	18	12.	65	18	12.	65	0	40-140	30
2-Nitroaniline	18	15.	83	18	15.	84	1	52-143	30
3-Nitroaniline	18	13.	73	18	13.	72	1	25-145	30
4-Nitroaniline	18	13.	72	18	13.	73	1	51-143	30
Dibenzofuran	18	13.	71	18	13.	73	3	40-140	30
1,2,4,5-Tetrachlorobenzene	18	14.	76	18	14.	80	5	2-134	30

Laboratory Control Sample Summary
Form 3
Semivolatiles

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Matrix (Level)	: WATER (LOW)		
LCS Sample ID	: WG1892048-2 **Analysis Date** : 03/05/24 05:19	**File ID**	: 892048-2
LCSD Sample ID	: WG1892048-3 **Analysis Date** : 03/05/24 05:43	**File ID**	: 892048-3

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	True (ug/l)	Found (ug/l)	%R	True (ug/l)	Found (ug/l)	%R	RPD	Recovery Limits	RPD Limit
Acetophenone	18	11.	61	18	12.	69	12	39-129	30
2,4,6-Trichlorophenol	18	15.	83	18	16.	86	4	30-130	30
p-Chloro-m-cresol	18	14.	75	18	14.	75	0	23-97	30
2-Chlorophenol	18	12.	64	18	13.	73	13	27-123	30
2,4-Dichlorophenol	18	12.	69	18	14.	76	10	30-130	30
2,4-Dimethylphenol	18	9.9	54	18	10.	58	7	30-130	30
2-Nitrophenol	18	15.	81	18	16.	90	11	30-130	30
4-Nitrophenol	18	12.	65	18	12.	64	2	10-80	30
2,4-Dinitrophenol	18	7.1	39	18	7.3	40	3	20-130	30
4,6-Dinitro-o-cresol	18	17.	93	18	16.	90	3	20-164	30
Phenol	18	9.0	50	18	9.7	53	6	12-110	30
2-Methylphenol	18	11.	63	18	12.	68	8	30-130	30
3-Methylphenol/4-Methylphenol	18	13.	70	18	13.	73	4	30-130	30
2,4,5-Trichlorophenol	18	15.	82	18	15.	80	2	30-130	30
Carbazole	18	12.	69	18	12.	68	1	55-144	30
Atrazine	18	14.	79	18	14.	75	5	40-140	30
Benzaldehyde	18	14.	75	18	15.	84	11	40-140	30
Caprolactam	18	7.2	39	18	6.4	35	11	10-130	30
2,3,4,6-Tetrachlorophenol	18	14.	75	18	14.	75	0	40-140	30

Matrix Spike Sample Summary
Form 3
Semivolatiles

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Client Sample ID	: MW-8S	**Matrix (Level)**	: WATER (LOW)
Lab Sample ID	: L2410579-08	**Analysis Date**	: 03/05/24 07:18
Matrix Spike	: WG1892048-4	**MS Analysis Date**	: 03/05/24 07:42
Matrix Spike Dup	: WG1892048-5	**MSD Analysis Date**	: 03/05/24 08:06

		Matrix Spike Sample				Matrix Spike Duplicate						
Parameter	Sample Conc. (ug/l)	Spike Added (ug/l)	Spike Conc. (ug/l)	%R		Spike Added (ug/l)	Spike Conc. (ug/l)	%R		RPD	Recovery Limits	RPD Limit
Bis(2-chloroethyl)ether	ND	18.2	12.	66		18.2	12.	66		0	40-140	30
3,3'-Dichlorobenzidine	ND	18.2	7.0	39	Q	18.2	7.1	39	Q	1	40-140	30
2,4-Dinitrotoluene	ND	18.2	15.	83		18.2	15.	83		0	48-143	30
2,6-Dinitrotoluene	ND	18.2	16.	88		18.2	14.	77		13	40-140	30
4-Chlorophenyl phenyl ether	ND	18.2	14.	77		18.2	13.	72		7	40-140	30
4-Bromophenyl phenyl ether	ND	18.2	14.	77		18.2	14.	77		0	40-140	30
Bis(2-chloroisopropyl)ether	ND	18.2	13.	72		18.2	13.	72		0	40-140	30
Bis(2-chloroethoxy)methane	ND	18.2	13.	72		18.2	13.	72		0	40-140	30
Hexachlorocyclopentadiene	ND	18.2	12.J	66		18.2	11.J	61		9	40-140	30
Isophorone	ND	18.2	12.	66		18.2	12.	66		0	40-140	30
Nitrobenzene	ND	18.2	14.	77		18.2	13.	72		7	40-140	30
NDPA/DPA	ND	18.2	12.	66		18.2	12.	66		0	40-140	30
n-Nitrosodi-n-propylamine	ND	18.2	13.	72		18.2	12.	66		8	29-132	30
Bis(2-ethylhexyl)phthalate	ND	18.2	14.	77		18.2	14.	77		0	40-140	30
Butyl benzyl phthalate	ND	18.2	11.	61		18.2	11.	61		0	40-140	30
Di-n-butylphthalate	ND	18.2	12.	66		18.2	12.	66		0	40-140	30
Di-n-octylphthalate	ND	18.2	13.	72		18.2	13.	72		0	40-140	30
Diethyl phthalate	ND	18.2	12.	66		18.2	13.	72		8	40-140	30
Dimethyl phthalate	ND	18.2	13.	72		18.2	13.	72		0	40-140	30
Biphenyl	ND	18.2	13.	72		18.2	12.	66		8	40-140	30
4-Chloroaniline	ND	18.2	12.	66		18.2	12.	66		0	40-140	30
2-Nitroaniline	ND	18.2	13.	72		18.2	13.	72		0	52-143	30

Matrix Spike Sample Summary
Form 3
Semivolatiles

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Client Sample ID	: MW-8S	**Matrix (Level)**	: WATER (LOW)
Lab Sample ID	: L2410579-08	**Analysis Date**	: 03/05/24 07:18
Matrix Spike	: WG1892048-4	**MS Analysis Date**	: 03/05/24 07:42
Matrix Spike Dup	: WG1892048-5	**MSD Analysis Date**	: 03/05/24 08:06

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	Sample Conc. (ug/l)	Spike Added (ug/l)	Spike Conc. (ug/l)	%R	Spike Added (ug/l)	Spike Conc. (ug/l)	%R	RPD	Recovery Limits	RPD Limit
3-Nitroaniline	ND	18.2	11.	61	18.2	11.	61	0	25-145	30
4-Nitroaniline	ND	18.2	10.	55	18.2	10.	55	0	51-143	30
Dibenzofuran	ND	18.2	13.	72	18.2	12.	66	8	40-140	30
1,2,4,5-Tetrachlorobenzene	ND	18.2	14.	77	18.2	13.	72	7	2-134	30
Acetophenone	ND	18.2	12.	66	18.2	11.	61	9	39-129	30
2,4,6-Trichlorophenol	ND	18.2	15.	83	18.2	14.	77	7	30-130	30
p-Chloro-m-cresol	ND	18.2	13.	72	18.2	13.	72	0	23-97	30
2-Chlorophenol	ND	18.2	12.	66	18.2	12.	66	0	27-123	30
2,4-Dichlorophenol	ND	18.2	13.	72	18.2	13.	72	0	30-130	30
2,4-Dimethylphenol	ND	18.2	9.3	51	18.2	8.8	48	6	30-130	30
2-Nitrophenol	ND	18.2	15.	83	18.2	15.	83	0	30-130	30
4-Nitrophenol	ND	18.2	11.	61	18.2	12.	66	9	10-80	30
2,4-Dinitrophenol	ND	18.2	17.J	94	18.2	16.J	88	6	20-130	30
4,6-Dinitro-o-cresol	ND	18.2	18.	99	18.2	19.	100	5	20-164	30
Phenol	ND	18.2	10.	55	18.2	9.1	50	9	12-110	30
2-Methylphenol	ND	18.2	12.	66	18.2	11.	61	9	30-130	30
3-Methylphenol/4-Methylphenol	ND	18.2	13.	72	18.2	12.	66	8	30-130	30
2,4,5-Trichlorophenol	ND	18.2	14.	77	18.2	14.	77	0	30-130	30
Carbazole	ND	18.2	12.	66	18.2	12.	66	0	55-144	30
Atrazine	ND	18.2	13.	72	18.2	13.	72	0	40-140	30
Benzaldehyde	ND	18.2	14.	77	18.2	13.	72	7	40-140	30
Caprolactam	ND	18.2	6.8J	37	18.2	6.9J	38	1	10-130	30

Matrix Spike Sample Summary
Form 3
Semivolatiles

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Client Sample ID	: MW-8S	**Matrix (Level)**	: WATER (LOW)
Lab Sample ID	: L2410579-08	**Analysis Date**	: 03/05/24 07:18
Matrix Spike	: WG1892048-4	**MS Analysis Date**	: 03/05/24 07:42
Matrix Spike Dup	: WG1892048-5	**MSD Analysis Date**	: 03/05/24 08:06

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	**Sample Conc. (ug/l)**	**Spike Added (ug/l)**	**Spike Conc. (ug/l)**	**%R**	**Spike Added (ug/l)**	**Spike Conc. (ug/l)**	**%R**	**RPD**	**Recovery Limits**	**RPD Limit**
2,3,4,6-Tetrachlorophenol	ND	18.2	13.	72	18.2	13.	72	0	40-140	30

Surrogate Recovery Summary
Form 2
Semivolatiles

Client: Alpha Geoscience
Project Name: HUNTINGTON READY MIX

Lab Number: L2410579
Project Number: 20116
Matrix: Water

CLIENT ID (LAB SAMPLE NO.)	S1 (2FP)	S2 (PHL)	S3 (NBZ)	S4 (FBP)	S5 (TBP)	S6 (TPH)	TOT OUT
MW-1S (L2410579-01)	51	43	62	66	80	73	0
MW-2S (L2410579-02)	48	42	58	61	71	67	0
MW-3S (L2410579-03)	39	35	50	51	49	60	0
MW-4D (L2410579-04)	52	43	66	68	63	63	0
MW-5S (L2410579-05)	51	42	65	68	57	71	0
MW-6D (L2410579-06)	48	41	54	56	70	66	0
MW-7S (L2410579-07)	48	41	55	61	68	69	0
MW-8S (L2410579-08)	53	45	69	67	69	66	0
DUP (L2410579-09)	51	42	55	61	70	67	0
EB (L2410579-10)	59	51	74	76	65	70	0
WG1891419-1BLANK	47	42	50	55	56	56	0
WG1891419-2LCS	50	46	54	60	60	60	0
WG1891419-3LCSD	53	47	56	60	62	58	0
WG1892048-1BLANK	42	35	57	60	43	51	0
WG1892048-2LCS	59	50	71	73	74	69	0
WG1892048-3LCSD	59	54	78	75	72	67	0
MW-8SMS	62	54	71	73	69	63	0
MW-8SMSD	56	49	68	67	70	66	0

QC LIMITS

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

*** Values outside of QC limits**

FORM II NYTCL-8270-LVI

Method Blank Summary
Form 4
Semivolatiles

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab Sample ID	: WG1891419-1	**Lab File ID**	: 891419-1
Instrument ID	: DAKOTA	**Extraction Date**	: 03/02/24
Matrix	: WATER	**Analysis Date**	: 03/02/24 14:39
Level	: LOW		

Client Sample No.	Lab Sample ID	Analysis Date
WG1891419-2LCS	WG1891419-2	03/02/24 16:31
WG1891419-3LCSD	WG1891419-3	03/02/24 16:54
MW-1S	L2410579-01	03/03/24 15:45
MW-2S	L2410579-02	03/03/24 16:08
MW-3S	L2410579-03	03/03/24 16:30
MW-6D	L2410579-06	03/03/24 16:52
MW-7S	L2410579-07	03/03/24 17:15
DUP	L2410579-09	03/03/24 17:37

Method Blank Summary
Form 4
Semivolatiles

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab Sample ID	: WG1892048-1	**Lab File ID**	: 892048-1
Instrument ID	: SV106	**Extraction Date**	: 03/04/24
Matrix	: WATER	**Analysis Date**	: 03/05/24 06:07
Level	: LOW		

Client Sample No.	Lab Sample ID	Analysis Date
WG1892048-2LCS	WG1892048-2	03/05/24 05:19
WG1892048-3LCSD	WG1892048-3	03/05/24 05:43
MW-4D	L2410579-04	03/05/24 06:30
MW-5S	L2410579-05	03/05/24 06:54
MW-8S	L2410579-08	03/05/24 07:18
MW-8SMS	WG1892048-4	03/05/24 07:42
MW-8SMSD	WG1892048-5	03/05/24 08:06
EB	L2410579-10	03/05/24 08:30

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

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Instrument ID	: SV106	**Analysis Date**	: 09/02/23 11:50
Tune Standard	: R1737141-35	**Tune File ID**	: Tune1_tune

m/e	Ion Abundance Criteria	%Relative Abundance
51	10.0 - 80.0% of Base Peak	39.7
68	Less than 2.0% of mass 69	0.7 (1.6)1
69		100
70	Less than 2.0% of mass 69	0.2 (.5)1
127	10.0 - 80.0% of Base Peak	52.7
197	Less than 2.0% of mass 198	0.2
198	Base Peak, or >50% of mass 442	100
199	5.0 - 9.0% of mass 198	6.8
275	10.0 - 60.0% of Base Peak	24.2
365	Greater than 1.0% of mass 198	3
441	Present, but less than 24% of mass 442	16.4
442	Base Peak, or >50% of mass 198	74.7
443	15.0 - 24.0% of mass 442	14.3 (19.1)2

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

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

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
ABNL10	R1737141-2	ABNL10	09/02/23 12:13
ABNL9	R1737141-10	ABNL9	09/02/23 12:37
ABNL8	R1737141-9	ABNL8	09/02/23 13:01
ABNL7	R1737141-8	ABNL7	09/02/23 13:24
ABNL6	R1737141-7	ABNL6	09/02/23 13:48
ABNL5	R1737141-6	ABNL5	09/02/23 14:12
ABNL4	R1737141-5	ABNL4	09/02/23 14:36
ABNL3	R1737141-4	ABNL3	09/02/23 14:59
ABNL2	R1737141-3	ABNL2	09/02/23 15:23
ABNL1	R1737141-1	ABNL1	09/02/23 15:47
AP9L10	R1737141-22	AP9L10	09/02/23 16:10
AP9L9	R1737141-30	AP9L9	09/02/23 16:34
AP9L8	R1737141-29	AP9L8	09/02/23 16:58
AP9L7	R1737141-28	AP9L7	09/02/23 17:21
AP9L6	R1737141-27	AP9L6	09/02/23 17:45
AP9L5	R1737141-26	AP9L5	09/02/23 18:09
AP9L4	R1737141-25	AP9L4	09/02/23 18:32
AP9L3	R1737141-24	AP9L3	09/02/23 18:56
AP9L2	R1737141-23	AP9L2	09/02/23 19:20
AP9L1	R1737141-21	AP9L1	09/02/23 19:43
ABN ICV Quant Report	R1737141-31	ABNICV	09/02/23 20:07
AP9 ICV Quant Report	R1737141-33	AP9ICV	09/02/23 20:31

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

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Instrument ID	: SV106	**Analysis Date**	: 09/02/23 20:54
Tune Standard	: R1737141-34	**Tune File ID**	: Tune2_tune

m/e	Ion Abundance Criteria	%Relative Abundance
51	10.0 - 80.0% of Base Peak	36.3
68	Less than 2.0% of mass 69	0.3 (.8)1
69		100
70	Less than 2.0% of mass 69	0.2 (.5)1
127	10.0 - 80.0% of Base Peak	52.5
197	Less than 2.0% of mass 198	0.4
198	Base Peak, or >50% of mass 442	100
199	5.0 - 9.0% of mass 198	6.5
275	10.0 - 60.0% of Base Peak	24.7
365	Greater than 1.0% of mass 198	3.1
441	Present, but less than 24% of mass 442	16.2
442	Base Peak, or >50% of mass 198	79.3
443	15.0 - 24.0% of mass 442	14.7 (18.6)2

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

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

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
ADPL10	R1737141-11	ADPL10	09/02/23 21:18
ADPL9	R1737141-20	ADPL9	09/02/23 21:42
ADPL8	R1737141-19	ADPL8	09/02/23 22:05
ADPL7	R1737141-18	ADPL7	09/02/23 22:29
ADPL6	R1737141-16	ADPL6	09/02/23 22:53
ADPL5	R1737141-17	ADPL5	09/02/23 23:17
ADPL4	R1737141-14	ADPL4	09/02/23 23:40
ADPL3	R1737141-15	ADPL3	09/03/23 00:04
ADPL2	R1737141-12	ADPL2	09/03/23 00:28
ADPL1	R1737141-13	ADPL1	09/03/23 00:52
ADP ICV Quant Report	R1737141-32	ADPICV	09/03/23 01:15

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

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Instrument ID	: SV106	**Analysis Date**	: 03/04/24 23:46
Tune Standard	: WG1891342-1	**Tune File ID**	: DEG0304n_tune

m/e	Ion Abundance Criteria	%Relative Abundance
51	10.0 - 80.0% of Base Peak	38.5
68	Less than 2.0% of mass 69	0.4 (1.1)1
69		100
70	Less than 2.0% of mass 69	0.2 (.5)1
127	10.0 - 80.0% of Base Peak	47.8
197	Less than 2.0% of mass 198	0.1
198	Base Peak, or >50% of mass 442	100
199	5.0 - 9.0% of mass 198	6.9
275	10.0 - 60.0% of Base Peak	22.8
365	Greater than 1.0% of mass 198	2.5
441	Present, but less than 24% of mass 442	15.2
442	Base Peak, or >50% of mass 198	57.5
443	15.0 - 24.0% of mass 442	11.3 (19.6)2

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

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

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
WG1891342-6TFACTOR-P	WG1891342-6	DEG0304N	03/04/24 23:46
WG1891342-7TFACTOR-B	WG1891342-7	DEG0304N	03/04/24 23:46
WG1891342-3CCAL	WG1891342-3	ABN0304N	03/05/24 00:10
WG1891342-4CCAL	WG1891342-4	AP90304N	03/05/24 00:34
WG1891342-5CCAL	WG1891342-5	ADP0304N	03/05/24 00:58
WG1892048-2LCS	WG1892048-2	892048-2	03/05/24 05:19
WG1892048-3LCSD	WG1892048-3	892048-3	03/05/24 05:43
WG1892048-1BLANK	WG1892048-1	892048-1	03/05/24 06:07
MW-4D	L2410579-04	10579-04	03/05/24 06:30
MW-5S	L2410579-05	10579-05	03/05/24 06:54
MW-8S	L2410579-08	10579-08	03/05/24 07:18
WG1892048-4MS	WG1892048-4	892048-4	03/05/24 07:42
WG1892048-5MSD	WG1892048-5	892048-5	03/05/24 08:06
EB	L2410579-10	10579-10	03/05/24 08:30

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

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Instrument ID	: DAKOTA	**Analysis Date**	: 02/28/24 20:30
Tune Standard	: R1800073-24	**Tune File ID**	: Tune1_tune

m/e	Ion Abundance Criteria	%Relative Abundance
51	10.0 - 80.0% of Base Peak	38.2
68	Less than 2.0% of mass 69	0.3 (.7)1
69		100
70	Less than 2.0% of mass 69	0.2 (.5)1
127	10.0 - 80.0% of Base Peak	41.4
197	Less than 2.0% of mass 198	0
198	Base Peak, or >50% of mass 442	100
199	5.0 - 9.0% of mass 198	6.5
275	10.0 - 60.0% of Base Peak	27.4
365	Greater than 1.0% of mass 198	3
441	Present, but less than 24% of mass 442	15.3
442	Base Peak, or >50% of mass 198	91.1
443	15.0 - 24.0% of mass 442	16.6 (18.2)2

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

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

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
ABNL10	R1800073-2	ABNL10	02/28/24 20:52
ABNL9	R1800073-10	ABNL9	02/28/24 21:14
ABNL8	R1800073-9	ABNL8	02/28/24 21:37
ABNL7	R1800073-8	ABNL7	02/28/24 21:59
ABNL6	R1800073-7	ABNL6	02/28/24 22:22
ABNL5	R1800073-6	ABNL5	02/28/24 22:45
ABNL4	R1800073-5	ABNL4	02/28/24 23:07
ABNL3	R1800073-4	ABNL3	02/28/24 23:30
ABNL2	R1800073-3	ABNL2	02/28/24 23:52
ABNL1	R1800073-1	ABNL1	02/29/24 00:15
APDPL10	R1800073-12	APDPL10	02/29/24 00:37
APDPL9	R1800073-20	APDPL9	02/29/24 01:00
APDPL8	R1800073-19	APDPL8	02/29/24 01:23
APDPL7	R1800073-18	APDPL7	02/29/24 01:45
APDPL6	R1800073-17	APDPL6	02/29/24 02:08
APDPL5	R1800073-14	APDPL5	02/29/24 02:30
APDPL4	R1800073-15	APDPL4	02/29/24 02:53
APDPL3	R1800073-16	APDPL3	02/29/24 03:15
APDPL2	R1800073-13	APDPL2	02/29/24 03:37
APDPL1	R1800073-11	APDPL1	02/29/24 04:00
ABN ICV Quant Form	R1800073-21	ABNICV	02/29/24 04:23
APDP ICV Quant Form	R1800073-22	APDPICV	02/29/24 04:45

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

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Instrument ID	: DAKOTA	**Analysis Date**	: 02/29/24 11:53
Tune Standard	: R1800073-25	**Tune File ID**	: Tune2_tune

m/e	Ion Abundance Criteria	%Relative Abundance
51	10.0 - 80.0% of Base Peak	42.3
68	Less than 2.0% of mass 69	0.5 (1.4)1
69		100
70	Less than 2.0% of mass 69	0.3 (.7)1
127	10.0 - 80.0% of Base Peak	43.5
197	Less than 2.0% of mass 198	0
198	Base Peak, or >50% of mass 442	100
199	5.0 - 9.0% of mass 198	6.8
275	10.0 - 60.0% of Base Peak	26.8
365	Greater than 1.0% of mass 198	2.8
441	Present, but less than 24% of mass 442	16
442	Base Peak, or >50% of mass 198	80.9
443	15.0 - 24.0% of mass 442	14.8 (18.3)2

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

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

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
Benzaldehyde Quant Form	R1800073-23	APDPICVA	02/29/24 12:48

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

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Instrument ID	: DAKOTA	**Analysis Date**	: 03/02/24 13:32
Tune Standard	: WG1891492-1	**Tune File ID**	: DEG0302_tune

m/e	Ion Abundance Criteria	%Relative Abundance
51	10.0 - 80.0% of Base Peak	37
68	Less than 2.0% of mass 69	0 (0)1
69		100
70	Less than 2.0% of mass 69	0.2 (.5)1
127	10.0 - 80.0% of Base Peak	42.4
197	Less than 2.0% of mass 198	0
198	Base Peak, or >50% of mass 442	100
199	5.0 - 9.0% of mass 198	6.7
275	10.0 - 60.0% of Base Peak	28.3
365	Greater than 1.0% of mass 198	3.3
441	Present, but less than 24% of mass 442	16.8
442	Base Peak, or >50% of mass 198	91.8
443	15.0 - 24.0% of mass 442	17.8 (19.4)2

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

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

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
WG1891492-6TFACTOR-B	WG1891492-6	DEG0302	03/02/24 13:32
WG1891492-7TFACTOR-P	WG1891492-7	DEG0302	03/02/24 13:32
WG1891492-3CCAL	WG1891492-3	ABN0302	03/02/24 13:55
WG1891492-4CCAL	WG1891492-4	APDP0302	03/02/24 14:17
WG1891419-1BLANK	WG1891419-1	891419-1	03/02/24 14:39
WG1891419-2LCS	WG1891419-2	891419-2	03/02/24 16:31
WG1891419-3LCSD	WG1891419-3	891419-3	03/02/24 16:54

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

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Instrument ID	: DAKOTA	**Analysis Date**	: 03/03/24 11:39
Tune Standard	: WG1891643-1	**Tune File ID**	: DEG0303_tune

m/e	Ion Abundance Criteria	%Relative Abundance
51	10.0 - 80.0% of Base Peak	36.6
68	Less than 2.0% of mass 69	0.5 (1.3)1
69		100
70	Less than 2.0% of mass 69	0.1 (.4)1
127	10.0 - 80.0% of Base Peak	41.7
197	Less than 2.0% of mass 198	0
198	Base Peak, or >50% of mass 442	100
199	5.0 - 9.0% of mass 198	7
275	10.0 - 60.0% of Base Peak	27.5
365	Greater than 1.0% of mass 198	3.4
441	Present, but less than 24% of mass 442	16.6
442	Base Peak, or >50% of mass 198	92.5
443	15.0 - 24.0% of mass 442	17.7 (19.1)2

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

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

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
WG1891643-6TFACTOR-B	WG1891643-6	DEG0303	03/03/24 11:39
WG1891643-7TFACTOR-P	WG1891643-7	DEG0303	03/03/24 11:39
WG1891643-3CCAL	WG1891643-3	ABN0303	03/03/24 12:02
WG1891643-4CCAL	WG1891643-4	APDP0303	03/03/24 12:24
MW-1S	L2410579-01	10579-01	03/03/24 15:45
MW-2S	L2410579-02	10579-02	03/03/24 16:08
MW-3S	L2410579-03	10579-03	03/03/24 16:30
MW-6D	L2410579-06	10579-06	03/03/24 16:52
MW-7S	L2410579-07	10579-07	03/03/24 17:15
DUP	L2410579-09	10579-09	03/03/24 17:37

Internal Standard Area and RT Summary
Form 8a
Semivolatiles

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Instrument ID	: DAKOTA	**Analysis Date**	: 03/02/24 13:55:00
Sample No	: WG1891492-3	**Lab File ID**	: ABN0302

	1,4-Dichlorobenzene-d4		Naphthalene-d8		Acenaphthene-d10	
	Area	RT	Area	RT	Area	RT
WG1891492-3	24014	4.78	81733	6.01	56426	7.71
Upper Limit	48028	5.28	163466	6.51	112852	8.21
Lower Limit	12007	4.28	40867	5.51	28213	7.21
Sample ID						
WG1891492-4 CCAL	20026	4.78	70682	6.01	48337	7.71
WG1891419-1 BLANK	24242	4.78	86881	6.01	57696	7.71
WG1891419-2 LCS	25388	4.78	88311	6.01	60175	7.71
WG1891419-3 LCSD	24877	4.78	87997	6.01	58256	7.71

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

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

* Values outside of QC limits

Internal Standard Area and RT Summary
Form 8a
Semivolatiles

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Instrument ID	: DAKOTA	**Analysis Date**	: 03/02/24 13:55:00
Sample No	: WG1891492-3	**Lab File ID**	: ABN0302

	Phenanthrene-d10		Chrysene-d12		Perylene-d12	
	Area	RT	Area	RT	Area	RT
WG1891492-3	126344	9.14	137232	11.78	160070	13.24
Upper Limit	252688	9.64	274464	12.28	320140	13.74
Lower Limit	63172	8.64	68616	11.28	80035	12.74
Sample ID						
WG1891492-4 CCAL	113942	9.14	-	-	-	-
WG1891419-1 BLANK	128711	9.14	128558	11.78	160579	13.24
WG1891419-2 LCS	137244	9.14	143014	11.77	169126	13.24
WG1891419-3 LCSD	137378	9.14	142435	11.77	168707	13.24

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

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

* Values outside of QC limits

Internal Standard Area and RT Summary
Form 8a
Semivolatiles

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Instrument ID	: DAKOTA	**Analysis Date**	: 03/03/24 12:02:00
Sample No	: WG1891643-3	**Lab File ID**	: ABN0303

	1,4-Dichlorobenzene-d4		Naphthalene-d8		Acenaphthene-d10	
	Area	RT	Area	RT	Area	RT
WG1891643-3	26057	4.76	90237	6.00	59066	7.70
Upper Limit	52114	5.26	180474	6.50	118132	8.20
Lower Limit	13029	4.26	45119	5.50	29533	7.20
Sample ID						
WG1891643-4 CCAL	25986	4.76	94225	6.00	65631	7.70
MW-1S	25181	4.77	89540	6.00	61584	7.70
MW-2S	25387	4.77	88840	6.00	60828	7.70
MW-3S	27622	4.77	96919	6.00	67240	7.70
MW-6D	27466	4.77	96869	6.00	66044	7.70
MW-7S	25789	4.77	90551	6.00	61980	7.70
DUP	26906	4.77	95321	6.00	66438	7.70

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

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

* Values outside of QC limits

Internal Standard Area and RT Summary
Form 8a
Semivolatiles

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Instrument ID	: DAKOTA	**Analysis Date**	: 03/03/24 12:02:00
Sample No	: WG1891643-3	**Lab File ID**	: ABN0303

	Phenanthrene-d10		Chrysene-d12		Perylene-d12	
	Area	RT	Area	RT	Area	RT
WG1891643-3	135391	9.13	147630	11.76	173682	13.22
Upper Limit	270782	9.63	295260	12.26	347364	13.72
Lower Limit	67696	8.63	73815	11.26	86841	12.72
Sample ID						
WG1891643-4 CCAL	154043	9.13	-	-	-	-
MW-1S	140208	9.13	138390	11.76	164045	13.23
MW-2S	135931	9.13	132107	11.76	156156	13.23
MW-3S	153468	9.13	153888	11.76	180619	13.23
MW-6D	148596	9.13	148718	11.76	176189	13.23
MW-7S	141173	9.13	145327	11.76	164220	13.23
DUP	148717	9.13	150470	11.76	173350	13.23

Area Upper Limit = +100% of internal standard area

Area Lower Limit = - 50% of internal standard area

RT Upper Limit = +0.50 minutes of internal standard RT

RT Lower Limit = -0.50 minutes of internal standard RT

* Values outside of QC limits

Internal Standard Area and RT Summary
Form 8a
Semivolatiles

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Instrument ID	: SV106	**Analysis Date**	: 03/05/24 00:10:00
Sample No	: WG1891342-3	**Lab File ID**	: ABN0304N

	1,4-Dichlorobenzene-d4		Naphthalene-d8		Acenaphthene-d10	
	Area	RT	Area	RT	Area	RT
WG1891342-3	44264	6.33	170941	7.77	107442	9.52
Upper Limit	88528	6.83	341882	8.27	214884	10.02
Lower Limit	22132	5.83	85471	7.27	53721	9.02
Sample ID						
WG1891342-4 CCAL	45624	6.33	165553	7.76	100303	9.52
WG1891342-5 CCAL	44909	6.33	-	-	98087	9.53
WG1892048-2 LCS	49300	6.33	178242	7.76	106813	9.52
WG1892048-3 LCSD	48780	6.33	184777	7.76	109622	9.52
WG1892048-1 BLANK	53489	6.33	194299	7.76	121470	9.52
MW-4D	47301	6.33	172176	7.76	105820	9.53
MW-5S	48839	6.33	177861	7.76	107065	9.53
MW-8S	44852	6.33	167820	7.76	98152	9.52
MW-8S MS	55876	6.33	206090	7.76	118447	9.53
MW-8S MSD	47480	6.33	177902	7.76	103921	9.52
EB	41920	6.33	156467	7.76	91715	9.53

Area Upper Limit = +100% of internal standard area

Area Lower Limit = - 50% of internal standard area

RT Upper Limit = +0.50 minutes of internal standard RT

RT Lower Limit = -0.50 minutes of internal standard RT

* Values outside of QC limits

Internal Standard Area and RT Summary
Form 8a
Semivolatiles

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Instrument ID	: SV106	**Analysis Date**	: 03/05/24 00:10:00
Sample No	: WG1891342-3	**Lab File ID**	: ABN0304N

	Phenanthrene-d10		Chrysene-d12		Perylene-d12	
	Area	RT	Area	RT	Area	RT
WG1891342-3	227092	10.96	207444	13.58	227846	15.04
Upper Limit	454184	11.46	414888	14.08	455692	15.54
Lower Limit	113546	10.46	103722	13.08	113923	14.54
Sample ID						
WG1891342-4 CCAL	222077	10.96	-	-	-	-
WG1891342-5 CCAL	217156	10.96	-	-	-	-
WG1892048-2 LCS	203293	10.96	150293	13.58	164712	15.04
WG1892048-3 LCSD	202176	10.96	144486	13.58	159812	15.04
WG1892048-1 BLANK	238628	10.96	191734	13.58	227736	15.04
MW-4D	199032	10.96	153868	13.58	181964	15.04
MW-5S	197316	10.96	152821	13.58	178638	15.04
MW-8S	192179	10.96	148461	13.58	175174	15.04
MW-8S MS	212868	10.96	150954	13.58	161447	15.04
MW-8S MSD	195072	10.96	147242	13.58	166384	15.04
EB	179803	10.96	138148	13.58	160626	15.04

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

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

* Values outside of QC limits

Date Created: 03/07/23
Created By: Jason Hebert
File: PM14021-1
Page: 1

ABN Extractables - EPA 8270E (WATER)

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

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

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

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

ABN Extractables - EPA 8270E (WATER)

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

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

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
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Date Created: 03/07/23
Created By: Jason Hebert
File: PM14022-1
Page: 1

ABN Extractables - EPA 8270E (SOIL)

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

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

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

ABN Extractables - EPA 8270E (SOIL)

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

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

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

Semivolatile Sample Data

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2410579-01	**Date Collected**	: 02/26/24 14:10
Client ID	: MW-1S	**Date Received**	: 02/27/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 03/03/24 15:45
Sample Matrix	: WATER	**Date Extracted**	: 03/02/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 10579-01	**Analyst**	: SZ
Sample Amount	: 275 ml	**Instrument ID**	: DAKOTA
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
111-44-4	Bis(2-chloroethyl)ether	ND	2.0	0.50	U
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	1.6	U
121-14-2	2,4-Dinitrotoluene	ND	5.0	1.2	U
606-20-2	2,6-Dinitrotoluene	ND	5.0	0.93	U
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.0	0.49	U
101-55-3	4-Bromophenyl phenyl ether	ND	2.0	0.38	U
108-60-1	Bis(2-chloroisopropyl)ether	ND	2.0	0.53	U
111-91-1	Bis(2-chloroethoxy)methane	ND	5.0	0.50	U
77-47-4	Hexachlorocyclopentadiene	ND	20	0.69	U
78-59-1	Isophorone	ND	5.0	1.2	U
98-95-3	Nitrobenzene	ND	2.0	0.77	U
86-30-6	NDPA/DPA	ND	2.0	0.42	U
621-64-7	n-Nitrosodi-n-propylamine	ND	5.0	0.64	U
117-81-7	Bis(2-ethylhexyl)phthalate	ND	3.0	1.5	U
85-68-7	Butyl benzyl phthalate	ND	5.0	1.2	U
84-74-2	Di-n-butylphthalate	ND	5.0	0.39	U
117-84-0	Di-n-octylphthalate	ND	5.0	1.3	U
84-66-2	Diethyl phthalate	ND	5.0	0.38	U
131-11-3	Dimethyl phthalate	ND	5.0	1.8	U
92-52-4	Biphenyl	ND	2.0	0.46	U
106-47-8	4-Chloroaniline	ND	5.0	1.1	U
88-74-4	2-Nitroaniline	ND	5.0	0.50	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2410579-01	**Date Collected**	: 02/26/24 14:10
Client ID	: MW-1S	**Date Received**	: 02/27/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 03/03/24 15:45
Sample Matrix	: WATER	**Date Extracted**	: 03/02/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 10579-01	**Analyst**	: SZ
Sample Amount	: 275 ml	**Instrument ID**	: DAKOTA
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
99-09-2	3-Nitroaniline	ND	5.0	0.81	U
100-01-6	4-Nitroaniline	ND	5.0	0.80	U
132-64-9	Dibenzofuran	ND	2.0	0.50	U
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	10	0.44	U
98-86-2	Acetophenone	ND	5.0	0.53	U
88-06-2	2,4,6-Trichlorophenol	ND	5.0	0.61	U
59-50-7	p-Chloro-m-cresol	ND	2.0	0.35	U
95-57-8	2-Chlorophenol	ND	2.0	0.48	U
120-83-2	2,4-Dichlorophenol	ND	5.0	0.41	U
105-67-9	2,4-Dimethylphenol	ND	5.0	1.8	U
88-75-5	2-Nitrophenol	ND	10	0.85	U
100-02-7	4-Nitrophenol	ND	10	0.67	U
51-28-5	2,4-Dinitrophenol	ND	20	6.6	U
534-52-1	4,6-Dinitro-o-cresol	ND	10	1.8	U
108-95-2	Phenol	ND	5.0	0.57	U
95-48-7	2-Methylphenol	ND	5.0	0.49	U
108-39-4/106-44-5	3-Methylphenol/4-Methylphenol	ND	5.0	0.48	U
95-95-4	2,4,5-Trichlorophenol	ND	5.0	0.77	U
86-74-8	Carbazole	ND	2.0	0.49	U
1912-24-9	Atrazine	ND	10	0.76	U
100-52-7	Benzaldehyde	ND	5.0	0.53	U
105-60-2	Caprolactam	ND	10	3.3	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2410579-01	**Date Collected**	: 02/26/24 14:10
Client ID	: MW-1S	**Date Received**	: 02/27/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 03/03/24 15:45
Sample Matrix	: WATER	**Date Extracted**	: 03/02/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 10579-01	**Analyst**	: SZ
Sample Amount	: 275 ml	**Instrument ID**	: DAKOTA
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
58-90-2	2,3,4,6-Tetrachlorophenol	ND	5.0	0.84	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2410579-02	**Date Collected**	: 02/26/24 15:25
Client ID	: MW-2S	**Date Received**	: 02/27/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 03/03/24 16:08
Sample Matrix	: WATER	**Date Extracted**	: 03/02/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 10579-02	**Analyst**	: SZ
Sample Amount	: 275 ml	**Instrument ID**	: DAKOTA
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
111-44-4	Bis(2-chloroethyl)ether	ND	2.0	0.50	U
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	1.6	U
121-14-2	2,4-Dinitrotoluene	ND	5.0	1.2	U
606-20-2	2,6-Dinitrotoluene	ND	5.0	0.93	U
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.0	0.49	U
101-55-3	4-Bromophenyl phenyl ether	ND	2.0	0.38	U
108-60-1	Bis(2-chloroisopropyl)ether	ND	2.0	0.53	U
111-91-1	Bis(2-chloroethoxy)methane	ND	5.0	0.50	U
77-47-4	Hexachlorocyclopentadiene	ND	20	0.69	U
78-59-1	Isophorone	ND	5.0	1.2	U
98-95-3	Nitrobenzene	ND	2.0	0.77	U
86-30-6	NDPA/DPA	ND	2.0	0.42	U
621-64-7	n-Nitrosodi-n-propylamine	ND	5.0	0.64	U
117-81-7	Bis(2-ethylhexyl)phthalate	3.2	3.0	1.5	
85-68-7	Butyl benzyl phthalate	ND	5.0	1.2	U
84-74-2	Di-n-butylphthalate	ND	5.0	0.39	U
117-84-0	Di-n-octylphthalate	ND	5.0	1.3	U
84-66-2	Diethyl phthalate	ND	5.0	0.38	U
131-11-3	Dimethyl phthalate	ND	5.0	1.8	U
92-52-4	Biphenyl	ND	2.0	0.46	U
106-47-8	4-Chloroaniline	ND	5.0	1.1	U
88-74-4	2-Nitroaniline	ND	5.0	0.50	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2410579-02	**Date Collected**	: 02/26/24 15:25
Client ID	: MW-2S	**Date Received**	: 02/27/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 03/03/24 16:08
Sample Matrix	: WATER	**Date Extracted**	: 03/02/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 10579-02	**Analyst**	: SZ
Sample Amount	: 275 ml	**Instrument ID**	: DAKOTA
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
99-09-2	3-Nitroaniline	ND	5.0	0.81	U
100-01-6	4-Nitroaniline	ND	5.0	0.80	U
132-64-9	Dibenzofuran	ND	2.0	0.50	U
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	10	0.44	U
98-86-2	Acetophenone	ND	5.0	0.53	U
88-06-2	2,4,6-Trichlorophenol	ND	5.0	0.61	U
59-50-7	p-Chloro-m-cresol	ND	2.0	0.35	U
95-57-8	2-Chlorophenol	ND	2.0	0.48	U
120-83-2	2,4-Dichlorophenol	ND	5.0	0.41	U
105-67-9	2,4-Dimethylphenol	ND	5.0	1.8	U
88-75-5	2-Nitrophenol	ND	10	0.85	U
100-02-7	4-Nitrophenol	ND	10	0.67	U
51-28-5	2,4-Dinitrophenol	ND	20	6.6	U
534-52-1	4,6-Dinitro-o-cresol	ND	10	1.8	U
108-95-2	Phenol	ND	5.0	0.57	U
95-48-7	2-Methylphenol	ND	5.0	0.49	U
108-39-4/106-44-5	3-Methylphenol/4-Methylphenol	ND	5.0	0.48	U
95-95-4	2,4,5-Trichlorophenol	ND	5.0	0.77	U
86-74-8	Carbazole	ND	2.0	0.49	U
1912-24-9	Atrazine	ND	10	0.76	U
100-52-7	Benzaldehyde	ND	5.0	0.53	U
105-60-2	Caprolactam	ND	10	3.3	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2410579-02	**Date Collected**	: 02/26/24 15:25
Client ID	: MW-2S	**Date Received**	: 02/27/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 03/03/24 16:08
Sample Matrix	: WATER	**Date Extracted**	: 03/02/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 10579-02	**Analyst**	: SZ
Sample Amount	: 275 ml	**Instrument ID**	: DAKOTA
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
58-90-2	2,3,4,6-Tetrachlorophenol	ND	5.0	0.84	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2410579-03	**Date Collected**	: 02/26/24 16:30
Client ID	: MW-3S	**Date Received**	: 02/27/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 03/03/24 16:30
Sample Matrix	: WATER	**Date Extracted**	: 03/02/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 10579-03	**Analyst**	: SZ
Sample Amount	: 275 ml	**Instrument ID**	: DAKOTA
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
111-44-4	Bis(2-chloroethyl)ether	ND	2.0	0.50	U
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	1.6	U
121-14-2	2,4-Dinitrotoluene	ND	5.0	1.2	U
606-20-2	2,6-Dinitrotoluene	ND	5.0	0.93	U
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.0	0.49	U
101-55-3	4-Bromophenyl phenyl ether	ND	2.0	0.38	U
108-60-1	Bis(2-chloroisopropyl)ether	ND	2.0	0.53	U
111-91-1	Bis(2-chloroethoxy)methane	ND	5.0	0.50	U
77-47-4	Hexachlorocyclopentadiene	ND	20	0.69	U
78-59-1	Isophorone	ND	5.0	1.2	U
98-95-3	Nitrobenzene	ND	2.0	0.77	U
86-30-6	NDPA/DPA	ND	2.0	0.42	U
621-64-7	n-Nitrosodi-n-propylamine	ND	5.0	0.64	U
117-81-7	Bis(2-ethylhexyl)phthalate	2.6	3.0	1.5	J
85-68-7	Butyl benzyl phthalate	ND	5.0	1.2	U
84-74-2	Di-n-butylphthalate	ND	5.0	0.39	U
117-84-0	Di-n-octylphthalate	ND	5.0	1.3	U
84-66-2	Diethyl phthalate	ND	5.0	0.38	U
131-11-3	Dimethyl phthalate	ND	5.0	1.8	U
92-52-4	Biphenyl	ND	2.0	0.46	U
106-47-8	4-Chloroaniline	ND	5.0	1.1	U
88-74-4	2-Nitroaniline	ND	5.0	0.50	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2410579-03	**Date Collected**	: 02/26/24 16:30
Client ID	: MW-3S	**Date Received**	: 02/27/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 03/03/24 16:30
Sample Matrix	: WATER	**Date Extracted**	: 03/02/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 10579-03	**Analyst**	: SZ
Sample Amount	: 275 ml	**Instrument ID**	: DAKOTA
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
99-09-2	3-Nitroaniline	ND	5.0	0.81	U
100-01-6	4-Nitroaniline	ND	5.0	0.80	U
132-64-9	Dibenzofuran	ND	2.0	0.50	U
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	10	0.44	U
98-86-2	Acetophenone	ND	5.0	0.53	U
88-06-2	2,4,6-Trichlorophenol	ND	5.0	0.61	U
59-50-7	p-Chloro-m-cresol	ND	2.0	0.35	U
95-57-8	2-Chlorophenol	ND	2.0	0.48	U
120-83-2	2,4-Dichlorophenol	ND	5.0	0.41	U
105-67-9	2,4-Dimethylphenol	ND	5.0	1.8	U
88-75-5	2-Nitrophenol	ND	10	0.85	U
100-02-7	4-Nitrophenol	ND	10	0.67	U
51-28-5	2,4-Dinitrophenol	ND	20	6.6	U
534-52-1	4,6-Dinitro-o-cresol	ND	10	1.8	U
108-95-2	Phenol	ND	5.0	0.57	U
95-48-7	2-Methylphenol	ND	5.0	0.49	U
108-39-4/106-44-5	3-Methylphenol/4-Methylphenol	ND	5.0	0.48	U
95-95-4	2,4,5-Trichlorophenol	ND	5.0	0.77	U
86-74-8	Carbazole	ND	2.0	0.49	U
1912-24-9	Atrazine	ND	10	0.76	U
100-52-7	Benzaldehyde	ND	5.0	0.53	U
105-60-2	Caprolactam	ND	10	3.3	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2410579-03	**Date Collected**	: 02/26/24 16:30
Client ID	: MW-3S	**Date Received**	: 02/27/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 03/03/24 16:30
Sample Matrix	: WATER	**Date Extracted**	: 03/02/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 10579-03	**Analyst**	: SZ
Sample Amount	: 275 ml	**Instrument ID**	: DAKOTA
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
58-90-2	2,3,4,6-Tetrachlorophenol	ND	5.0	0.84	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2410579-04	**Date Collected**	: 02/27/24 09:05
Client ID	: MW-4D	**Date Received**	: 02/27/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 03/05/24 06:30
Sample Matrix	: WATER	**Date Extracted**	: 03/04/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 10579-04	**Analyst**	: LJG
Sample Amount	: 275 ml	**Instrument ID**	: SV106
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
111-44-4	Bis(2-chloroethyl)ether	ND	2.0	0.50	U
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	1.6	U
121-14-2	2,4-Dinitrotoluene	ND	5.0	1.2	U
606-20-2	2,6-Dinitrotoluene	ND	5.0	0.93	U
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.0	0.49	U
101-55-3	4-Bromophenyl phenyl ether	ND	2.0	0.38	U
108-60-1	Bis(2-chloroisopropyl)ether	ND	2.0	0.53	U
111-91-1	Bis(2-chloroethoxy)methane	ND	5.0	0.50	U
77-47-4	Hexachlorocyclopentadiene	ND	20	0.69	U
78-59-1	Isophorone	ND	5.0	1.2	U
98-95-3	Nitrobenzene	ND	2.0	0.77	U
86-30-6	NDPA/DPA	ND	2.0	0.42	U
621-64-7	n-Nitrosodi-n-propylamine	ND	5.0	0.64	U
117-81-7	Bis(2-ethylhexyl)phthalate	ND	3.0	1.5	U
85-68-7	Butyl benzyl phthalate	ND	5.0	1.2	U
84-74-2	Di-n-butylphthalate	ND	5.0	0.39	U
117-84-0	Di-n-octylphthalate	ND	5.0	1.3	U
84-66-2	Diethyl phthalate	ND	5.0	0.38	U
131-11-3	Dimethyl phthalate	ND	5.0	1.8	U
92-52-4	Biphenyl	ND	2.0	0.46	U
106-47-8	4-Chloroaniline	ND	5.0	1.1	U
88-74-4	2-Nitroaniline	ND	5.0	0.50	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2410579-04	**Date Collected**	: 02/27/24 09:05
Client ID	: MW-4D	**Date Received**	: 02/27/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 03/05/24 06:30
Sample Matrix	: WATER	**Date Extracted**	: 03/04/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 10579-04	**Analyst**	: LJG
Sample Amount	: 275 ml	**Instrument ID**	: SV106
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
99-09-2	3-Nitroaniline	ND	5.0	0.81	U
100-01-6	4-Nitroaniline	ND	5.0	0.80	U
132-64-9	Dibenzofuran	ND	2.0	0.50	U
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	10	0.44	U
98-86-2	Acetophenone	ND	5.0	0.53	U
88-06-2	2,4,6-Trichlorophenol	ND	5.0	0.61	U
59-50-7	p-Chloro-m-cresol	ND	2.0	0.35	U
95-57-8	2-Chlorophenol	ND	2.0	0.48	U
120-83-2	2,4-Dichlorophenol	ND	5.0	0.41	U
105-67-9	2,4-Dimethylphenol	ND	5.0	1.8	U
88-75-5	2-Nitrophenol	ND	10	0.85	U
100-02-7	4-Nitrophenol	ND	10	0.67	U
51-28-5	2,4-Dinitrophenol	ND	20	6.6	U
534-52-1	4,6-Dinitro-o-cresol	ND	10	1.8	U
108-95-2	Phenol	ND	5.0	0.57	U
95-48-7	2-Methylphenol	ND	5.0	0.49	U
108-39-4/106-44-5	3-Methylphenol/4-Methylphenol	ND	5.0	0.48	U
95-95-4	2,4,5-Trichlorophenol	ND	5.0	0.77	U
86-74-8	Carbazole	ND	2.0	0.49	U
1912-24-9	Atrazine	ND	10	0.76	U
100-52-7	Benzaldehyde	ND	5.0	0.53	U
105-60-2	Caprolactam	ND	10	3.3	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2410579-04	**Date Collected**	: 02/27/24 09:05
Client ID	: MW-4D	**Date Received**	: 02/27/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 03/05/24 06:30
Sample Matrix	: WATER	**Date Extracted**	: 03/04/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 10579-04	**Analyst**	: LJG
Sample Amount	: 275 ml	**Instrument ID**	: SV106
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
58-90-2	2,3,4,6-Tetrachlorophenol	ND	5.0	0.84	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2410579-05	**Date Collected**	: 02/27/24 08:40
Client ID	: MW-5S	**Date Received**	: 02/27/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 03/05/24 06:54
Sample Matrix	: WATER	**Date Extracted**	: 03/04/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 10579-05	**Analyst**	: LJG
Sample Amount	: 275 ml	**Instrument ID**	: SV106
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
111-44-4	Bis(2-chloroethyl)ether	ND	2.0	0.50	U
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	1.6	U
121-14-2	2,4-Dinitrotoluene	ND	5.0	1.2	U
606-20-2	2,6-Dinitrotoluene	ND	5.0	0.93	U
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.0	0.49	U
101-55-3	4-Bromophenyl phenyl ether	ND	2.0	0.38	U
108-60-1	Bis(2-chloroisopropyl)ether	ND	2.0	0.53	U
111-91-1	Bis(2-chloroethoxy)methane	ND	5.0	0.50	U
77-47-4	Hexachlorocyclopentadiene	ND	20	0.69	U
78-59-1	Isophorone	ND	5.0	1.2	U
98-95-3	Nitrobenzene	ND	2.0	0.77	U
86-30-6	NDPA/DPA	ND	2.0	0.42	U
621-64-7	n-Nitrosodi-n-propylamine	ND	5.0	0.64	U
117-81-7	Bis(2-ethylhexyl)phthalate	ND	3.0	1.5	U
85-68-7	Butyl benzyl phthalate	ND	5.0	1.2	U
84-74-2	Di-n-butylphthalate	ND	5.0	0.39	U
117-84-0	Di-n-octylphthalate	ND	5.0	1.3	U
84-66-2	Diethyl phthalate	ND	5.0	0.38	U
131-11-3	Dimethyl phthalate	ND	5.0	1.8	U
92-52-4	Biphenyl	ND	2.0	0.46	U
106-47-8	4-Chloroaniline	ND	5.0	1.1	U
88-74-4	2-Nitroaniline	ND	5.0	0.50	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2410579-05	**Date Collected**	: 02/27/24 08:40
Client ID	: MW-5S	**Date Received**	: 02/27/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 03/05/24 06:54
Sample Matrix	: WATER	**Date Extracted**	: 03/04/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 10579-05	**Analyst**	: LJG
Sample Amount	: 275 ml	**Instrument ID**	: SV106
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
99-09-2	3-Nitroaniline	ND	5.0	0.81	U
100-01-6	4-Nitroaniline	ND	5.0	0.80	U
132-64-9	Dibenzofuran	ND	2.0	0.50	U
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	10	0.44	U
98-86-2	Acetophenone	ND	5.0	0.53	U
88-06-2	2,4,6-Trichlorophenol	ND	5.0	0.61	U
59-50-7	p-Chloro-m-cresol	ND	2.0	0.35	U
95-57-8	2-Chlorophenol	ND	2.0	0.48	U
120-83-2	2,4-Dichlorophenol	ND	5.0	0.41	U
105-67-9	2,4-Dimethylphenol	ND	5.0	1.8	U
88-75-5	2-Nitrophenol	ND	10	0.85	U
100-02-7	4-Nitrophenol	ND	10	0.67	U
51-28-5	2,4-Dinitrophenol	ND	20	6.6	U
534-52-1	4,6-Dinitro-o-cresol	ND	10	1.8	U
108-95-2	Phenol	ND	5.0	0.57	U
95-48-7	2-Methylphenol	ND	5.0	0.49	U
108-39-4/106-44-5	3-Methylphenol/4-Methylphenol	ND	5.0	0.48	U
95-95-4	2,4,5-Trichlorophenol	ND	5.0	0.77	U
86-74-8	Carbazole	ND	2.0	0.49	U
1912-24-9	Atrazine	ND	10	0.76	U
100-52-7	Benzaldehyde	ND	5.0	0.53	U
105-60-2	Caprolactam	ND	10	3.3	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2410579-05	**Date Collected**	: 02/27/24 08:40
Client ID	: MW-5S	**Date Received**	: 02/27/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 03/05/24 06:54
Sample Matrix	: WATER	**Date Extracted**	: 03/04/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 10579-05	**Analyst**	: LJG
Sample Amount	: 275 ml	**Instrument ID**	: SV106
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
58-90-2	2,3,4,6-Tetrachlorophenol	ND	5.0	0.84	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2410579-06	**Date Collected**	: 02/26/24 16:35
Client ID	: MW-6D	**Date Received**	: 02/27/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 03/03/24 16:52
Sample Matrix	: WATER	**Date Extracted**	: 03/02/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 10579-06	**Analyst**	: SZ
Sample Amount	: 275 ml	**Instrument ID**	: DAKOTA
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
111-44-4	Bis(2-chloroethyl)ether	ND	2.0	0.50	U
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	1.6	U
121-14-2	2,4-Dinitrotoluene	ND	5.0	1.2	U
606-20-2	2,6-Dinitrotoluene	ND	5.0	0.93	U
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.0	0.49	U
101-55-3	4-Bromophenyl phenyl ether	ND	2.0	0.38	U
108-60-1	Bis(2-chloroisopropyl)ether	ND	2.0	0.53	U
111-91-1	Bis(2-chloroethoxy)methane	ND	5.0	0.50	U
77-47-4	Hexachlorocyclopentadiene	ND	20	0.69	U
78-59-1	Isophorone	ND	5.0	1.2	U
98-95-3	Nitrobenzene	ND	2.0	0.77	U
86-30-6	NDPA/DPA	ND	2.0	0.42	U
621-64-7	n-Nitrosodi-n-propylamine	ND	5.0	0.64	U
117-81-7	Bis(2-ethylhexyl)phthalate	1.6	3.0	1.5	J
85-68-7	Butyl benzyl phthalate	ND	5.0	1.2	U
84-74-2	Di-n-butylphthalate	ND	5.0	0.39	U
117-84-0	Di-n-octylphthalate	ND	5.0	1.3	U
84-66-2	Diethyl phthalate	ND	5.0	0.38	U
131-11-3	Dimethyl phthalate	ND	5.0	1.8	U
92-52-4	Biphenyl	ND	2.0	0.46	U
106-47-8	4-Chloroaniline	ND	5.0	1.1	U
88-74-4	2-Nitroaniline	ND	5.0	0.50	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2410579-06	**Date Collected**	: 02/26/24 16:35
Client ID	: MW-6D	**Date Received**	: 02/27/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 03/03/24 16:52
Sample Matrix	: WATER	**Date Extracted**	: 03/02/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 10579-06	**Analyst**	: SZ
Sample Amount	: 275 ml	**Instrument ID**	: DAKOTA
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
99-09-2	3-Nitroaniline	ND	5.0	0.81	U
100-01-6	4-Nitroaniline	ND	5.0	0.80	U
132-64-9	Dibenzofuran	ND	2.0	0.50	U
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	10	0.44	U
98-86-2	Acetophenone	ND	5.0	0.53	U
88-06-2	2,4,6-Trichlorophenol	ND	5.0	0.61	U
59-50-7	p-Chloro-m-cresol	ND	2.0	0.35	U
95-57-8	2-Chlorophenol	ND	2.0	0.48	U
120-83-2	2,4-Dichlorophenol	ND	5.0	0.41	U
105-67-9	2,4-Dimethylphenol	ND	5.0	1.8	U
88-75-5	2-Nitrophenol	ND	10	0.85	U
100-02-7	4-Nitrophenol	ND	10	0.67	U
51-28-5	2,4-Dinitrophenol	ND	20	6.6	U
534-52-1	4,6-Dinitro-o-cresol	ND	10	1.8	U
108-95-2	Phenol	ND	5.0	0.57	U
95-48-7	2-Methylphenol	ND	5.0	0.49	U
108-39-4/106-44-5	3-Methylphenol/4-Methylphenol	ND	5.0	0.48	U
95-95-4	2,4,5-Trichlorophenol	ND	5.0	0.77	U
86-74-8	Carbazole	ND	2.0	0.49	U
1912-24-9	Atrazine	ND	10	0.76	U
100-52-7	Benzaldehyde	ND	5.0	0.53	U
105-60-2	Caprolactam	ND	10	3.3	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2410579-06	**Date Collected**	: 02/26/24 16:35
Client ID	: MW-6D	**Date Received**	: 02/27/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 03/03/24 16:52
Sample Matrix	: WATER	**Date Extracted**	: 03/02/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 10579-06	**Analyst**	: SZ
Sample Amount	: 275 ml	**Instrument ID**	: DAKOTA
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
58-90-2	2,3,4,6-Tetrachlorophenol	ND	5.0	0.84	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2410579-07	**Date Collected**	: 02/26/24 14:45
Client ID	: MW-7S	**Date Received**	: 02/27/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 03/03/24 17:15
Sample Matrix	: WATER	**Date Extracted**	: 03/02/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 10579-07	**Analyst**	: SZ
Sample Amount	: 275 ml	**Instrument ID**	: DAKOTA
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
111-44-4	Bis(2-chloroethyl)ether	ND	2.0	0.50	U
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	1.6	U
121-14-2	2,4-Dinitrotoluene	ND	5.0	1.2	U
606-20-2	2,6-Dinitrotoluene	ND	5.0	0.93	U
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.0	0.49	U
101-55-3	4-Bromophenyl phenyl ether	ND	2.0	0.38	U
108-60-1	Bis(2-chloroisopropyl)ether	ND	2.0	0.53	U
111-91-1	Bis(2-chloroethoxy)methane	ND	5.0	0.50	U
77-47-4	Hexachlorocyclopentadiene	ND	20	0.69	U
78-59-1	Isophorone	ND	5.0	1.2	U
98-95-3	Nitrobenzene	ND	2.0	0.77	U
86-30-6	NDPA/DPA	ND	2.0	0.42	U
621-64-7	n-Nitrosodi-n-propylamine	ND	5.0	0.64	U
117-81-7	Bis(2-ethylhexyl)phthalate	ND	3.0	1.5	U
85-68-7	Butyl benzyl phthalate	ND	5.0	1.2	U
84-74-2	Di-n-butylphthalate	ND	5.0	0.39	U
117-84-0	Di-n-octylphthalate	ND	5.0	1.3	U
84-66-2	Diethyl phthalate	ND	5.0	0.38	U
131-11-3	Dimethyl phthalate	ND	5.0	1.8	U
92-52-4	Biphenyl	ND	2.0	0.46	U
106-47-8	4-Chloroaniline	ND	5.0	1.1	U
88-74-4	2-Nitroaniline	ND	5.0	0.50	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2410579-07	**Date Collected**	: 02/26/24 14:45
Client ID	: MW-7S	**Date Received**	: 02/27/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 03/03/24 17:15
Sample Matrix	: WATER	**Date Extracted**	: 03/02/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 10579-07	**Analyst**	: SZ
Sample Amount	: 275 ml	**Instrument ID**	: DAKOTA
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
99-09-2	3-Nitroaniline	ND	5.0	0.81	U
100-01-6	4-Nitroaniline	ND	5.0	0.80	U
132-64-9	Dibenzofuran	ND	2.0	0.50	U
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	10	0.44	U
98-86-2	Acetophenone	ND	5.0	0.53	U
88-06-2	2,4,6-Trichlorophenol	ND	5.0	0.61	U
59-50-7	p-Chloro-m-cresol	ND	2.0	0.35	U
95-57-8	2-Chlorophenol	ND	2.0	0.48	U
120-83-2	2,4-Dichlorophenol	ND	5.0	0.41	U
105-67-9	2,4-Dimethylphenol	ND	5.0	1.8	U
88-75-5	2-Nitrophenol	ND	10	0.85	U
100-02-7	4-Nitrophenol	ND	10	0.67	U
51-28-5	2,4-Dinitrophenol	ND	20	6.6	U
534-52-1	4,6-Dinitro-o-cresol	ND	10	1.8	U
108-95-2	Phenol	ND	5.0	0.57	U
95-48-7	2-Methylphenol	ND	5.0	0.49	U
108-39-4/106-44-5	3-Methylphenol/4-Methylphenol	ND	5.0	0.48	U
95-95-4	2,4,5-Trichlorophenol	ND	5.0	0.77	U
86-74-8	Carbazole	ND	2.0	0.49	U
1912-24-9	Atrazine	ND	10	0.76	U
100-52-7	Benzaldehyde	ND	5.0	0.53	U
105-60-2	Caprolactam	ND	10	3.3	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2410579-07	**Date Collected**	: 02/26/24 14:45
Client ID	: MW-7S	**Date Received**	: 02/27/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 03/03/24 17:15
Sample Matrix	: WATER	**Date Extracted**	: 03/02/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 10579-07	**Analyst**	: SZ
Sample Amount	: 275 ml	**Instrument ID**	: DAKOTA
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
58-90-2	2,3,4,6-Tetrachlorophenol	ND	5.0	0.84	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2410579-08	**Date Collected**	: 02/27/24 10:25
Client ID	: MW-8S	**Date Received**	: 02/27/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 03/05/24 07:18
Sample Matrix	: WATER	**Date Extracted**	: 03/04/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 10579-08	**Analyst**	: LJG
Sample Amount	: 275 ml	**Instrument ID**	: SV106
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
111-44-4	Bis(2-chloroethyl)ether	ND	2.0	0.50	U
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	1.6	U
121-14-2	2,4-Dinitrotoluene	ND	5.0	1.2	U
606-20-2	2,6-Dinitrotoluene	ND	5.0	0.93	U
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.0	0.49	U
101-55-3	4-Bromophenyl phenyl ether	ND	2.0	0.38	U
108-60-1	Bis(2-chloroisopropyl)ether	ND	2.0	0.53	U
111-91-1	Bis(2-chloroethoxy)methane	ND	5.0	0.50	U
77-47-4	Hexachlorocyclopentadiene	ND	20	0.69	U
78-59-1	Isophorone	ND	5.0	1.2	U
98-95-3	Nitrobenzene	ND	2.0	0.77	U
86-30-6	NDPA/DPA	ND	2.0	0.42	U
621-64-7	n-Nitrosodi-n-propylamine	ND	5.0	0.64	U
117-81-7	Bis(2-ethylhexyl)phthalate	ND	3.0	1.5	U
85-68-7	Butyl benzyl phthalate	ND	5.0	1.2	U
84-74-2	Di-n-butylphthalate	ND	5.0	0.39	U
117-84-0	Di-n-octylphthalate	ND	5.0	1.3	U
84-66-2	Diethyl phthalate	ND	5.0	0.38	U
131-11-3	Dimethyl phthalate	ND	5.0	1.8	U
92-52-4	Biphenyl	ND	2.0	0.46	U
106-47-8	4-Chloroaniline	ND	5.0	1.1	U
88-74-4	2-Nitroaniline	ND	5.0	0.50	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2410579-08	**Date Collected**	: 02/27/24 10:25
Client ID	: MW-8S	**Date Received**	: 02/27/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 03/05/24 07:18
Sample Matrix	: WATER	**Date Extracted**	: 03/04/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 10579-08	**Analyst**	: LJG
Sample Amount	: 275 ml	**Instrument ID**	: SV106
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
99-09-2	3-Nitroaniline	ND	5.0	0.81	U
100-01-6	4-Nitroaniline	ND	5.0	0.80	U
132-64-9	Dibenzofuran	ND	2.0	0.50	U
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	10	0.44	U
98-86-2	Acetophenone	ND	5.0	0.53	U
88-06-2	2,4,6-Trichlorophenol	ND	5.0	0.61	U
59-50-7	p-Chloro-m-cresol	ND	2.0	0.35	U
95-57-8	2-Chlorophenol	ND	2.0	0.48	U
120-83-2	2,4-Dichlorophenol	ND	5.0	0.41	U
105-67-9	2,4-Dimethylphenol	ND	5.0	1.8	U
88-75-5	2-Nitrophenol	ND	10	0.85	U
100-02-7	4-Nitrophenol	ND	10	0.67	U
51-28-5	2,4-Dinitrophenol	ND	20	6.6	U
534-52-1	4,6-Dinitro-o-cresol	ND	10	1.8	U
108-95-2	Phenol	ND	5.0	0.57	U
95-48-7	2-Methylphenol	ND	5.0	0.49	U
108-39-4/106-44-5	3-Methylphenol/4-Methylphenol	ND	5.0	0.48	U
95-95-4	2,4,5-Trichlorophenol	ND	5.0	0.77	U
86-74-8	Carbazole	ND	2.0	0.49	U
1912-24-9	Atrazine	ND	10	0.76	U
100-52-7	Benzaldehyde	ND	5.0	0.53	U
105-60-2	Caprolactam	ND	10	3.3	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2410579-08	**Date Collected**	: 02/27/24 10:25
Client ID	: MW-8S	**Date Received**	: 02/27/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 03/05/24 07:18
Sample Matrix	: WATER	**Date Extracted**	: 03/04/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 10579-08	**Analyst**	: LJG
Sample Amount	: 275 ml	**Instrument ID**	: SV106
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
58-90-2	2,3,4,6-Tetrachlorophenol	ND	5.0	0.84	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2410579-09	**Date Collected**	: 02/26/24 00:00
Client ID	: DUP	**Date Received**	: 02/27/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 03/03/24 17:37
Sample Matrix	: WATER	**Date Extracted**	: 03/02/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 10579-09	**Analyst**	: SZ
Sample Amount	: 275 ml	**Instrument ID**	: DAKOTA
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
111-44-4	Bis(2-chloroethyl)ether	ND	2.0	0.50	U
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	1.6	U
121-14-2	2,4-Dinitrotoluene	ND	5.0	1.2	U
606-20-2	2,6-Dinitrotoluene	ND	5.0	0.93	U
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.0	0.49	U
101-55-3	4-Bromophenyl phenyl ether	ND	2.0	0.38	U
108-60-1	Bis(2-chloroisopropyl)ether	ND	2.0	0.53	U
111-91-1	Bis(2-chloroethoxy)methane	ND	5.0	0.50	U
77-47-4	Hexachlorocyclopentadiene	ND	20	0.69	U
78-59-1	Isophorone	ND	5.0	1.2	U
98-95-3	Nitrobenzene	ND	2.0	0.77	U
86-30-6	NDPA/DPA	ND	2.0	0.42	U
621-64-7	n-Nitrosodi-n-propylamine	ND	5.0	0.64	U
117-81-7	Bis(2-ethylhexyl)phthalate	1.5	3.0	1.5	J
85-68-7	Butyl benzyl phthalate	ND	5.0	1.2	U
84-74-2	Di-n-butylphthalate	ND	5.0	0.39	U
117-84-0	Di-n-octylphthalate	ND	5.0	1.3	U
84-66-2	Diethyl phthalate	ND	5.0	0.38	U
131-11-3	Dimethyl phthalate	ND	5.0	1.8	U
92-52-4	Biphenyl	ND	2.0	0.46	U
106-47-8	4-Chloroaniline	ND	5.0	1.1	U
88-74-4	2-Nitroaniline	ND	5.0	0.50	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2410579-09	**Date Collected**	: 02/26/24 00:00
Client ID	: DUP	**Date Received**	: 02/27/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 03/03/24 17:37
Sample Matrix	: WATER	**Date Extracted**	: 03/02/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 10579-09	**Analyst**	: SZ
Sample Amount	: 275 ml	**Instrument ID**	: DAKOTA
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
99-09-2	3-Nitroaniline	ND	5.0	0.81	U
100-01-6	4-Nitroaniline	ND	5.0	0.80	U
132-64-9	Dibenzofuran	ND	2.0	0.50	U
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	10	0.44	U
98-86-2	Acetophenone	ND	5.0	0.53	U
88-06-2	2,4,6-Trichlorophenol	ND	5.0	0.61	U
59-50-7	p-Chloro-m-cresol	ND	2.0	0.35	U
95-57-8	2-Chlorophenol	ND	2.0	0.48	U
120-83-2	2,4-Dichlorophenol	ND	5.0	0.41	U
105-67-9	2,4-Dimethylphenol	ND	5.0	1.8	U
88-75-5	2-Nitrophenol	ND	10	0.85	U
100-02-7	4-Nitrophenol	ND	10	0.67	U
51-28-5	2,4-Dinitrophenol	ND	20	6.6	U
534-52-1	4,6-Dinitro-o-cresol	ND	10	1.8	U
108-95-2	Phenol	ND	5.0	0.57	U
95-48-7	2-Methylphenol	ND	5.0	0.49	U
108-39-4/106-44-5	3-Methylphenol/4-Methylphenol	ND	5.0	0.48	U
95-95-4	2,4,5-Trichlorophenol	ND	5.0	0.77	U
86-74-8	Carbazole	ND	2.0	0.49	U
1912-24-9	Atrazine	ND	10	0.76	U
100-52-7	Benzaldehyde	ND	5.0	0.53	U
105-60-2	Caprolactam	ND	10	3.3	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2410579-09	**Date Collected**	: 02/26/24 00:00
Client ID	: DUP	**Date Received**	: 02/27/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 03/03/24 17:37
Sample Matrix	: WATER	**Date Extracted**	: 03/02/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 10579-09	**Analyst**	: SZ
Sample Amount	: 275 ml	**Instrument ID**	: DAKOTA
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
58-90-2	2,3,4,6-Tetrachlorophenol	ND	5.0	0.84	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2410579-10	**Date Collected**	: 02/27/24 09:15
Client ID	: EB	**Date Received**	: 02/27/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 03/05/24 08:30
Sample Matrix	: WATER	**Date Extracted**	: 03/04/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 10579-10	**Analyst**	: LJG
Sample Amount	: 275 ml	**Instrument ID**	: SV106
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
111-44-4	Bis(2-chloroethyl)ether	ND	2.0	0.50	U
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	1.6	U
121-14-2	2,4-Dinitrotoluene	ND	5.0	1.2	U
606-20-2	2,6-Dinitrotoluene	ND	5.0	0.93	U
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.0	0.49	U
101-55-3	4-Bromophenyl phenyl ether	ND	2.0	0.38	U
108-60-1	Bis(2-chloroisopropyl)ether	ND	2.0	0.53	U
111-91-1	Bis(2-chloroethoxy)methane	ND	5.0	0.50	U
77-47-4	Hexachlorocyclopentadiene	ND	20	0.69	U
78-59-1	Isophorone	ND	5.0	1.2	U
98-95-3	Nitrobenzene	ND	2.0	0.77	U
86-30-6	NDPA/DPA	ND	2.0	0.42	U
621-64-7	n-Nitrosodi-n-propylamine	ND	5.0	0.64	U
117-81-7	Bis(2-ethylhexyl)phthalate	ND	3.0	1.5	U
85-68-7	Butyl benzyl phthalate	ND	5.0	1.2	U
84-74-2	Di-n-butylphthalate	ND	5.0	0.39	U
117-84-0	Di-n-octylphthalate	ND	5.0	1.3	U
84-66-2	Diethyl phthalate	ND	5.0	0.38	U
131-11-3	Dimethyl phthalate	ND	5.0	1.8	U
92-52-4	Biphenyl	ND	2.0	0.46	U
106-47-8	4-Chloroaniline	ND	5.0	1.1	U
88-74-4	2-Nitroaniline	ND	5.0	0.50	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2410579-10	**Date Collected**	: 02/27/24 09:15
Client ID	: EB	**Date Received**	: 02/27/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 03/05/24 08:30
Sample Matrix	: WATER	**Date Extracted**	: 03/04/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 10579-10	**Analyst**	: LJG
Sample Amount	: 275 ml	**Instrument ID**	: SV106
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
99-09-2	3-Nitroaniline	ND	5.0	0.81	U
100-01-6	4-Nitroaniline	ND	5.0	0.80	U
132-64-9	Dibenzofuran	ND	2.0	0.50	U
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	10	0.44	U
98-86-2	Acetophenone	ND	5.0	0.53	U
88-06-2	2,4,6-Trichlorophenol	ND	5.0	0.61	U
59-50-7	p-Chloro-m-cresol	ND	2.0	0.35	U
95-57-8	2-Chlorophenol	ND	2.0	0.48	U
120-83-2	2,4-Dichlorophenol	ND	5.0	0.41	U
105-67-9	2,4-Dimethylphenol	ND	5.0	1.8	U
88-75-5	2-Nitrophenol	ND	10	0.85	U
100-02-7	4-Nitrophenol	ND	10	0.67	U
51-28-5	2,4-Dinitrophenol	ND	20	6.6	U
534-52-1	4,6-Dinitro-o-cresol	ND	10	1.8	U
108-95-2	Phenol	ND	5.0	0.57	U
95-48-7	2-Methylphenol	ND	5.0	0.49	U
108-39-4/106-44-5	3-Methylphenol/4-Methylphenol	ND	5.0	0.48	U
95-95-4	2,4,5-Trichlorophenol	ND	5.0	0.77	U
86-74-8	Carbazole	ND	2.0	0.49	U
1912-24-9	Atrazine	ND	10	0.76	U
100-52-7	Benzaldehyde	ND	5.0	0.53	U
105-60-2	Caprolactam	ND	10	3.3	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2410579-10	**Date Collected**	: 02/27/24 09:15
Client ID	: EB	**Date Received**	: 02/27/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 03/05/24 08:30
Sample Matrix	: WATER	**Date Extracted**	: 03/04/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 10579-10	**Analyst**	: LJG
Sample Amount	: 275 ml	**Instrument ID**	: SV106
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
58-90-2	2,3,4,6-Tetrachlorophenol	ND	5.0	0.84	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: WG1891419-1	**Date Collected**	: NA
Client ID	: WG1891419-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 03/02/24 14:39
Sample Matrix	: WATER	**Date Extracted**	: 03/02/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 891419-1	**Analyst**	: SZ
Sample Amount	: 275 ml	**Instrument ID**	: DAKOTA
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
111-44-4	Bis(2-chloroethyl)ether	ND	2.0	0.50	U
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	1.6	U
121-14-2	2,4-Dinitrotoluene	ND	5.0	1.2	U
606-20-2	2,6-Dinitrotoluene	ND	5.0	0.93	U
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.0	0.49	U
101-55-3	4-Bromophenyl phenyl ether	ND	2.0	0.38	U
108-60-1	Bis(2-chloroisopropyl)ether	ND	2.0	0.53	U
111-91-1	Bis(2-chloroethoxy)methane	ND	5.0	0.50	U
77-47-4	Hexachlorocyclopentadiene	ND	20	0.69	U
78-59-1	Isophorone	ND	5.0	1.2	U
98-95-3	Nitrobenzene	ND	2.0	0.77	U
86-30-6	NDPA/DPA	ND	2.0	0.42	U
621-64-7	n-Nitrosodi-n-propylamine	ND	5.0	0.64	U
117-81-7	Bis(2-ethylhexyl)phthalate	2.3	3.0	1.5	J
85-68-7	Butyl benzyl phthalate	ND	5.0	1.2	U
84-74-2	Di-n-butylphthalate	ND	5.0	0.39	U
117-84-0	Di-n-octylphthalate	ND	5.0	1.3	U
84-66-2	Diethyl phthalate	ND	5.0	0.38	U
131-11-3	Dimethyl phthalate	ND	5.0	1.8	U
92-52-4	Biphenyl	ND	2.0	0.46	U
106-47-8	4-Chloroaniline	ND	5.0	1.1	U
88-74-4	2-Nitroaniline	ND	5.0	0.50	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: WG1891419-1	**Date Collected**	: NA
Client ID	: WG1891419-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 03/02/24 14:39
Sample Matrix	: WATER	**Date Extracted**	: 03/02/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 891419-1	**Analyst**	: SZ
Sample Amount	: 275 ml	**Instrument ID**	: DAKOTA
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
99-09-2	3-Nitroaniline	ND	5.0	0.81	U
100-01-6	4-Nitroaniline	ND	5.0	0.80	U
132-64-9	Dibenzofuran	ND	2.0	0.50	U
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	10	0.44	U
98-86-2	Acetophenone	ND	5.0	0.53	U
88-06-2	2,4,6-Trichlorophenol	ND	5.0	0.61	U
59-50-7	p-Chloro-m-cresol	ND	2.0	0.35	U
95-57-8	2-Chlorophenol	ND	2.0	0.48	U
120-83-2	2,4-Dichlorophenol	ND	5.0	0.41	U
105-67-9	2,4-Dimethylphenol	ND	5.0	1.8	U
88-75-5	2-Nitrophenol	ND	10	0.85	U
100-02-7	4-Nitrophenol	ND	10	0.67	U
51-28-5	2,4-Dinitrophenol	ND	20	6.6	U
534-52-1	4,6-Dinitro-o-cresol	ND	10	1.8	U
108-95-2	Phenol	ND	5.0	0.57	U
95-48-7	2-Methylphenol	ND	5.0	0.49	U
108-39-4/106-44-5	3-Methylphenol/4-Methylphenol	ND	5.0	0.48	U
95-95-4	2,4,5-Trichlorophenol	ND	5.0	0.77	U
86-74-8	Carbazole	ND	2.0	0.49	U
1912-24-9	Atrazine	ND	10	0.76	U
100-52-7	Benzaldehyde	ND	5.0	0.53	U
105-60-2	Caprolactam	ND	10	3.3	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: WG1891419-1	**Date Collected**	: NA
Client ID	: WG1891419-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 03/02/24 14:39
Sample Matrix	: WATER	**Date Extracted**	: 03/02/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 891419-1	**Analyst**	: SZ
Sample Amount	: 275 ml	**Instrument ID**	: DAKOTA
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
58-90-2	2,3,4,6-Tetrachlorophenol	ND	5.0	0.84	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: WG1892048-1	**Date Collected**	: NA
Client ID	: WG1892048-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 03/05/24 06:07
Sample Matrix	: WATER	**Date Extracted**	: 03/04/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 892048-1	**Analyst**	: LJG
Sample Amount	: 275 ml	**Instrument ID**	: SV106
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
111-44-4	Bis(2-chloroethyl)ether	ND	2.0	0.50	U
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	1.6	U
121-14-2	2,4-Dinitrotoluene	ND	5.0	1.2	U
606-20-2	2,6-Dinitrotoluene	ND	5.0	0.93	U
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.0	0.49	U
101-55-3	4-Bromophenyl phenyl ether	ND	2.0	0.38	U
108-60-1	Bis(2-chloroisopropyl)ether	ND	2.0	0.53	U
111-91-1	Bis(2-chloroethoxy)methane	ND	5.0	0.50	U
77-47-4	Hexachlorocyclopentadiene	ND	20	0.69	U
78-59-1	Isophorone	ND	5.0	1.2	U
98-95-3	Nitrobenzene	ND	2.0	0.77	U
86-30-6	NDPA/DPA	ND	2.0	0.42	U
621-64-7	n-Nitrosodi-n-propylamine	ND	5.0	0.64	U
117-81-7	Bis(2-ethylhexyl)phthalate	ND	3.0	1.5	U
85-68-7	Butyl benzyl phthalate	ND	5.0	1.2	U
84-74-2	Di-n-butylphthalate	ND	5.0	0.39	U
117-84-0	Di-n-octylphthalate	ND	5.0	1.3	U
84-66-2	Diethyl phthalate	ND	5.0	0.38	U
131-11-3	Dimethyl phthalate	ND	5.0	1.8	U
92-52-4	Biphenyl	ND	2.0	0.46	U
106-47-8	4-Chloroaniline	ND	5.0	1.1	U
88-74-4	2-Nitroaniline	ND	5.0	0.50	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: WG1892048-1	**Date Collected**	: NA
Client ID	: WG1892048-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 03/05/24 06:07
Sample Matrix	: WATER	**Date Extracted**	: 03/04/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 892048-1	**Analyst**	: LJG
Sample Amount	: 275 ml	**Instrument ID**	: SV106
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
99-09-2	3-Nitroaniline	ND	5.0	0.81	U
100-01-6	4-Nitroaniline	ND	5.0	0.80	U
132-64-9	Dibenzofuran	ND	2.0	0.50	U
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	10	0.44	U
98-86-2	Acetophenone	ND	5.0	0.53	U
88-06-2	2,4,6-Trichlorophenol	ND	5.0	0.61	U
59-50-7	p-Chloro-m-cresol	ND	2.0	0.35	U
95-57-8	2-Chlorophenol	ND	2.0	0.48	U
120-83-2	2,4-Dichlorophenol	ND	5.0	0.41	U
105-67-9	2,4-Dimethylphenol	ND	5.0	1.8	U
88-75-5	2-Nitrophenol	ND	10	0.85	U
100-02-7	4-Nitrophenol	ND	10	0.67	U
51-28-5	2,4-Dinitrophenol	ND	20	6.6	U
534-52-1	4,6-Dinitro-o-cresol	ND	10	1.8	U
108-95-2	Phenol	ND	5.0	0.57	U
95-48-7	2-Methylphenol	ND	5.0	0.49	U
108-39-4/106-44-5	3-Methylphenol/4-Methylphenol	ND	5.0	0.48	U
95-95-4	2,4,5-Trichlorophenol	ND	5.0	0.77	U
86-74-8	Carbazole	ND	2.0	0.49	U
1912-24-9	Atrazine	ND	10	0.76	U
100-52-7	Benzaldehyde	ND	5.0	0.53	U
105-60-2	Caprolactam	ND	10	3.3	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: WG1892048-1	**Date Collected**	: NA
Client ID	: WG1892048-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 03/05/24 06:07
Sample Matrix	: WATER	**Date Extracted**	: 03/04/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 892048-1	**Analyst**	: LJG
Sample Amount	: 275 ml	**Instrument ID**	: SV106
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
58-90-2	2,3,4,6-Tetrachlorophenol	ND	5.0	0.84	U

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240303alvi\
Data File : 10579-01.D
Acq On : 3 Mar 2024 3:45 pm
Operator : Dakota:sz
Sample : L2410579-01,32,,cmm
Misc : wg1891643,WG1891419,ical20900
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Mar 04 11:09:40 2024
Quant Method : I:\8270\dakota\240303alvi\FS240228LVIDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sun Mar 03 16:04:58 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\240303alvi\ABN0303.D
: 2 - I:\8270\Dakota\240303alvi\APDP0303.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	4.767	152	25181	4.000	ug/ml	0.00
Standard Area 1 = 26057			Recovery = 96.64%			
27) IS2_1,4-Dichlorobenzen...	4.767	152	25181	4.000	ug/ml	0.00
Standard Area 2 = 25986			Recovery = 96.90%			
33) IS1_Naphthalene-d8	6.001	136	89540	4.000	ug/ml	# 0.00
Standard Area 1 = 90237			Recovery = 99.23%			
53) IS2_Naphthalene-d8	6.001	136	89540	4.000	ug/ml	# 0.00
Standard Area 2 = 94225			Recovery = 95.03%			
61) IS1_Acenaphthene-d10	7.701	164	61584	4.000	ug/ml	0.00
Standard Area 1 = 59066			Recovery = 104.26%			
81) IS2_Acenaphthene-d10	7.701	164	61584	4.000	ug/ml	0.00
Standard Area 2 = 65631			Recovery = 93.83%			
85) IS1_Phenanthrene-d10	9.131	188	140208	4.000	ug/ml	0.00
Standard Area 1 = 135391			Recovery = 103.56%			
100) IS1_Chrysene-d12	11.763	240	138390	4.000	ug/ml	0.00
Standard Area 1 = 147630			Recovery = 93.74%			
109) IS1_Perylene-d12	13.227	264	164045	4.000	ug/ml	0.00
Standard Area 1 = 173682			Recovery = 94.45%			
System Monitoring Compounds						
4) 2-Fluorophenol	3.508	112	17136	2.542	ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 50.84%			
7) Phenol-d6	4.450	99	18867	2.166	ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 43.32%			
19) Nitrobenzene-d5	5.311	82	12097	1.542	ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 61.68%			
44) 2-Fluorobiphenyl	7.067	172	33201	1.654	ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 66.16%			
77) 2,4,6-Tribromophenol	8.463	330	16182	4.000	ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 80.00%			
93) 4-Terphenyl-d14	10.707	244	67267	1.837	ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 73.48%			
Target Compounds						Qvalue
6) 2-Chlorophenol	0.000		0	N.D.		
8) Phenol	0.000		0	N.D.		
9) Bis(2-chloroethyl)ether	0.000		0	N.D.		

Data Path : I:\8270\Dakota\240303alvi\
Data File : 10579-01.D
Acq On : 3 Mar 2024 3:45 pm
Operator : Dakota:sz
Sample : L2410579-01,32,,cmm
Misc : wg1891643,WG1891419,ical20900
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Mar 04 11:09:40 2024
Quant Method : I:\8270\dakota\240303alvi\FS240228LVIDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sun Mar 03 16:04:58 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\240303alvi\ABN0303.D
: 2 - I:\8270\Dakota\240303alvi\APDP0303.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
14) Bis(2-chloroisopropyl)...	0.000		0		N.D.	
15) 2-Methylphenol	0.000		0		N.D.	
17) n-Nitrosodi-n-propylamine	0.000		0		N.D.	d
18) 3-Methylphenol/4-Methy...	0.000		0		N.D.	
20) Nitrobenzene	0.000		0		N.D.	
21) Isophorone	0.000		0		N.D.	
22) 2-Nitrophenol	0.000		0		N.D.	
23) 2,4-Dimethylphenol	0.000		0		N.D.	
24) Bis(2-chloroethoxy)met...	0.000		0		N.D.	
25) 2,4-Dichlorophenol	0.000		0		N.D.	
28) Benzaldehyde	0.000		0		N.D.	
29) Acetophenone	0.000		0		N.D.	
36) 4-Chloroaniline	0.000		0		N.D.	
38) p-Chloro-m-cresol	0.000		0		N.D.	
41) Hexachlorocyclopentadiene	0.000		0		N.D.	
42) 2,4,6-Trichlorophenol	0.000		0		N.D.	
43) 2,4,5-Trichlorophenol	0.000		0		N.D.	
46) 2-Nitroaniline	0.000		0		N.D.	
49) Dimethyl phthalate	0.000		0		N.D.	d
51) 2,6-Dinitrotoluene	0.000		0		N.D.	d
58) Caprolactam	0.000		0		N.D.	d
59) 1,2,4,5-Tetrachloroben...	0.000		0		N.D.	
60) Biphenyl	0.000		0		N.D.	
62) 3-Nitroaniline	0.000		0		N.D.	
64) 2,4-Dinitrophenol	0.000		0		N.D.	
65) Dibenzofuran	0.000		0		N.D.	
66) 2,4-Dinitrotoluene	0.000		0		N.D.	d
67) 4-Nitrophenol	0.000		0		N.D.	
69) 2,3,4,6-Tetrachlorophenol	0.000		0		N.D.	
70) Diethyl phthalate	0.000		0		N.D.	d
72) 4-Chlorophenyl phenyl ...	0.000		0		N.D.	
73) 4-Nitroaniline	0.000		0		N.D.	
74) 4,6-Dinitro-o-cresol	0.000		0		N.D.	
75) NDPA/DPA	0.000		0		N.D.	d
78) 4-Bromophenyl phenyl e...	0.000		0		N.D.	
84) Atrazine	0.000		0		N.D.	
88) Carbazole	0.000		0		N.D.	d
89) Di-n-butylphthalate	0.000		0		N.D.	d

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240303alvi\
Data File : 10579-01.D
Acq On : 3 Mar 2024 3:45 pm
Operator : Dakota:sz
Sample : L2410579-01,32,,cmm
Misc : wg1891643,WG1891419,ical20900
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Mar 04 11:09:40 2024
Quant Method : I:\8270\dakota\240303alvi\FS240228LVIDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sun Mar 03 16:04:58 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\240303alvi\ABN0303.D
: 2 - I:\8270\Dakota\240303alvi\APDP0303.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
94) Butyl benzyl phthalate	0.000		0		N.D. d	
102) 3,3'-Dichlorobenzidine	0.000		0		N.D.	
104) Bis(2-ethylhexyl)phtha...	0.000		0		N.D. d	
105) Di-n-octylphthalate	0.000		0		N.D. d	

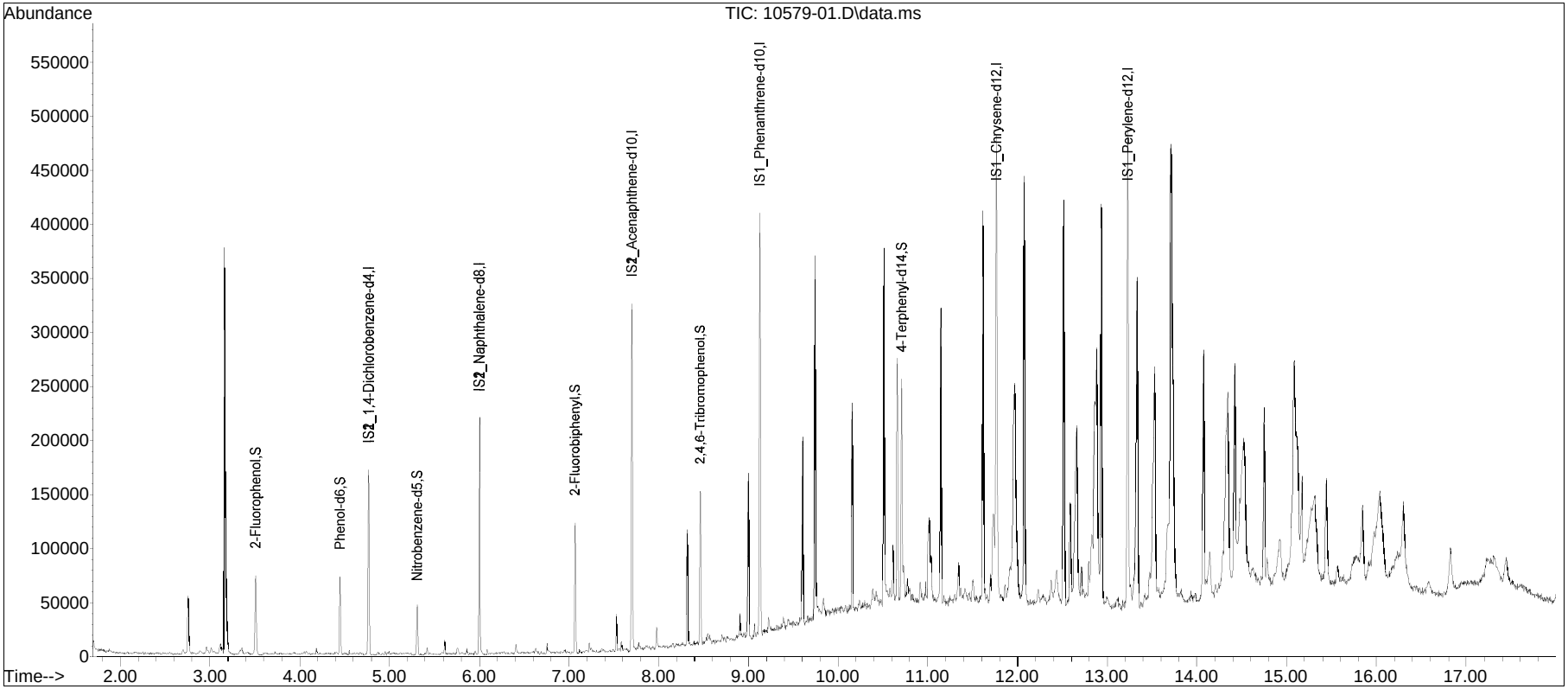
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240303alvi\
Data File : 10579-01.D
Acq On : 3 Mar 2024 3:45 pm
Operator : Dakota:sz
Sample : L2410579-01,32,,cmm
Misc : wg1891643,WG1891419,ical20900
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Mar 04 11:09:40 2024
Quant Method : I:\8270\dakota\240303alvi\FS240228LVIDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sun Mar 03 16:04:58 2024
Response via : Initial Calibration

Sub List : 8270TCL_combo_REV1 - TCL/CT/MAAPDP0303.D•



Manual Integration Report

Data Path	: I:\8270\Dakota\240303alvi\	QMethod	: FS240228LVIDakota.m
Data File	: 10579-01.D	Operator	: Dakota:sz
Date Inj'd	: 3/3/2024 3:45 pm	Instrument	: Dakota
Sample	: L2410579-01,32,,cmm	Quant Date	: 3/3/2024 4:05 pm

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240303alvi\
Data File : 10579-02.D
Acq On : 3 Mar 2024 4:08 pm
Operator : Dakota:sz
Sample : L2410579-02,32,,cmm
Misc : wg1891643,WG1891419,ical20900
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Mar 04 11:10:18 2024
Quant Method : I:\8270\dakota\240303alvi\FS240228LVIDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sun Mar 03 16:26:50 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\240303alvi\ABN0303.D
: 2 - I:\8270\Dakota\240303alvi\APDP0303.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	4.767	152	25387	4.000	ug/ml	0.00
Standard Area 1 = 26057			Recovery = 97.43%			
27) IS2_1,4-Dichlorobenzen...	4.767	152	25387	4.000	ug/ml	0.00
Standard Area 2 = 25986			Recovery = 97.69%			
33) IS1_Naphthalene-d8	6.001	136	88840	4.000	ug/ml	# 0.00
Standard Area 1 = 90237			Recovery = 98.45%			
53) IS2_Naphthalene-d8	6.001	136	88840	4.000	ug/ml	# 0.00
Standard Area 2 = 94225			Recovery = 94.28%			
61) IS1_Acenaphthene-d10	7.701	164	60828	4.000	ug/ml	0.00
Standard Area 1 = 59066			Recovery = 102.98%			
81) IS2_Acenaphthene-d10	7.701	164	60828	4.000	ug/ml	0.00
Standard Area 2 = 65631			Recovery = 92.68%			
85) IS1_Phenanthrene-d10	9.131	188	135931	4.000	ug/ml	0.00
Standard Area 1 = 135391			Recovery = 100.40%			
100) IS1_Chrysene-d12	11.763	240	132107	4.000	ug/ml	0.00
Standard Area 1 = 147630			Recovery = 89.49%			
109) IS1_Perylene-d12	13.227	264	156156	4.000	ug/ml	0.00
Standard Area 1 = 173682			Recovery = 89.91%			
System Monitoring Compounds						
4) 2-Fluorophenol	3.508	112	16257	2.392	ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 47.84%			
7) Phenol-d6	4.450	99	18278	2.082	ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 41.64%			
19) Nitrobenzene-d5	5.308	82	11554	1.461	ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 58.44%			
44) 2-Fluorobiphenyl	7.067	172	30133	1.513	ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 60.52%			
77) 2,4,6-Tribromophenol	8.463	330	14110	3.531	ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 70.62%			
93) 4-Terphenyl-d14	10.707	244	59545	1.677	ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 67.08%			
Target Compounds						Qvalue
6) 2-Chlorophenol	0.000		0	N.D.		
8) Phenol	0.000		0	N.D.		
9) Bis(2-chloroethyl)ether	0.000		0	N.D.		

Data Path : I:\8270\Dakota\240303alvi\
Data File : 10579-02.D
Acq On : 3 Mar 2024 4:08 pm
Operator : Dakota:sz
Sample : L2410579-02,32,,cmm
Misc : wg1891643,WG1891419,ical20900
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Mar 04 11:10:18 2024
Quant Method : I:\8270\dakota\240303alvi\FS240228LVIDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sun Mar 03 16:26:50 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\240303alvi\ABN0303.D
: 2 - I:\8270\Dakota\240303alvi\APDP0303.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
14) Bis(2-chloroisopropyl)...	0.000		0		N.D.	
15) 2-Methylphenol	0.000		0		N.D.	
17) n-Nitrosodi-n-propylamine	0.000		0		N.D.	d
18) 3-Methylphenol/4-Methy...	0.000		0		N.D.	
20) Nitrobenzene	0.000		0		N.D.	
21) Isophorone	0.000		0		N.D.	
22) 2-Nitrophenol	0.000		0		N.D.	
23) 2,4-Dimethylphenol	0.000		0		N.D.	
24) Bis(2-chloroethoxy)met...	0.000		0		N.D.	
25) 2,4-Dichlorophenol	0.000		0		N.D.	
28) Benzaldehyde	0.000		0		N.D.	
29) Acetophenone	0.000		0		N.D.	
36) 4-Chloroaniline	0.000		0		N.D.	
38) p-Chloro-m-cresol	0.000		0		N.D.	
41) Hexachlorocyclopentadiene	0.000		0		N.D.	
42) 2,4,6-Trichlorophenol	0.000		0		N.D.	
43) 2,4,5-Trichlorophenol	0.000		0		N.D.	
46) 2-Nitroaniline	0.000		0		N.D.	
49) Dimethyl phthalate	0.000		0		N.D.	d
51) 2,6-Dinitrotoluene	0.000		0		N.D.	d
58) Caprolactam	0.000		0		N.D.	d
59) 1,2,4,5-Tetrachloroben...	0.000		0		N.D.	
60) Biphenyl	0.000		0		N.D.	
62) 3-Nitroaniline	0.000		0		N.D.	
64) 2,4-Dinitrophenol	0.000		0		N.D.	
65) Dibenzofuran	0.000		0		N.D.	
66) 2,4-Dinitrotoluene	0.000		0		N.D.	d
67) 4-Nitrophenol	0.000		0		N.D.	
69) 2,3,4,6-Tetrachlorophenol	0.000		0		N.D.	
70) Diethyl phthalate	0.000		0		N.D.	d
72) 4-Chlorophenyl phenyl ...	0.000		0		N.D.	
73) 4-Nitroaniline	0.000		0		N.D.	
74) 4,6-Dinitro-o-cresol	0.000		0		N.D.	
75) NDPA/DPA	0.000		0		N.D.	
78) 4-Bromophenyl phenyl e...	0.000		0		N.D.	
84) Atrazine	0.000		0		N.D.	
88) Carbazole	0.000		0		N.D.	
89) Di-n-butylphthalate	0.000		0		N.D.	d

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240303alvi\
Data File : 10579-02.D
Acq On : 3 Mar 2024 4:08 pm
Operator : Dakota:sz
Sample : L2410579-02,32,,cmm
Misc : wg1891643,WG1891419,ical20900
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Mar 04 11:10:18 2024
Quant Method : I:\8270\dakota\240303alvi\FS240228LVIDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sun Mar 03 16:26:50 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\240303alvi\ABN0303.D
: 2 - I:\8270\Dakota\240303alvi\APDP0303.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
94) Butyl benzyl phthalate	0.000		0	N.D.	d	
102) 3,3'-Dichlorobenzidine	0.000		0	N.D.		
104) Bis(2-ethylhexyl)phtha...	11.863	149	16615	0.881	ug/ml#	94
105) Di-n-octylphthalate	0.000		0	N.D.	d	

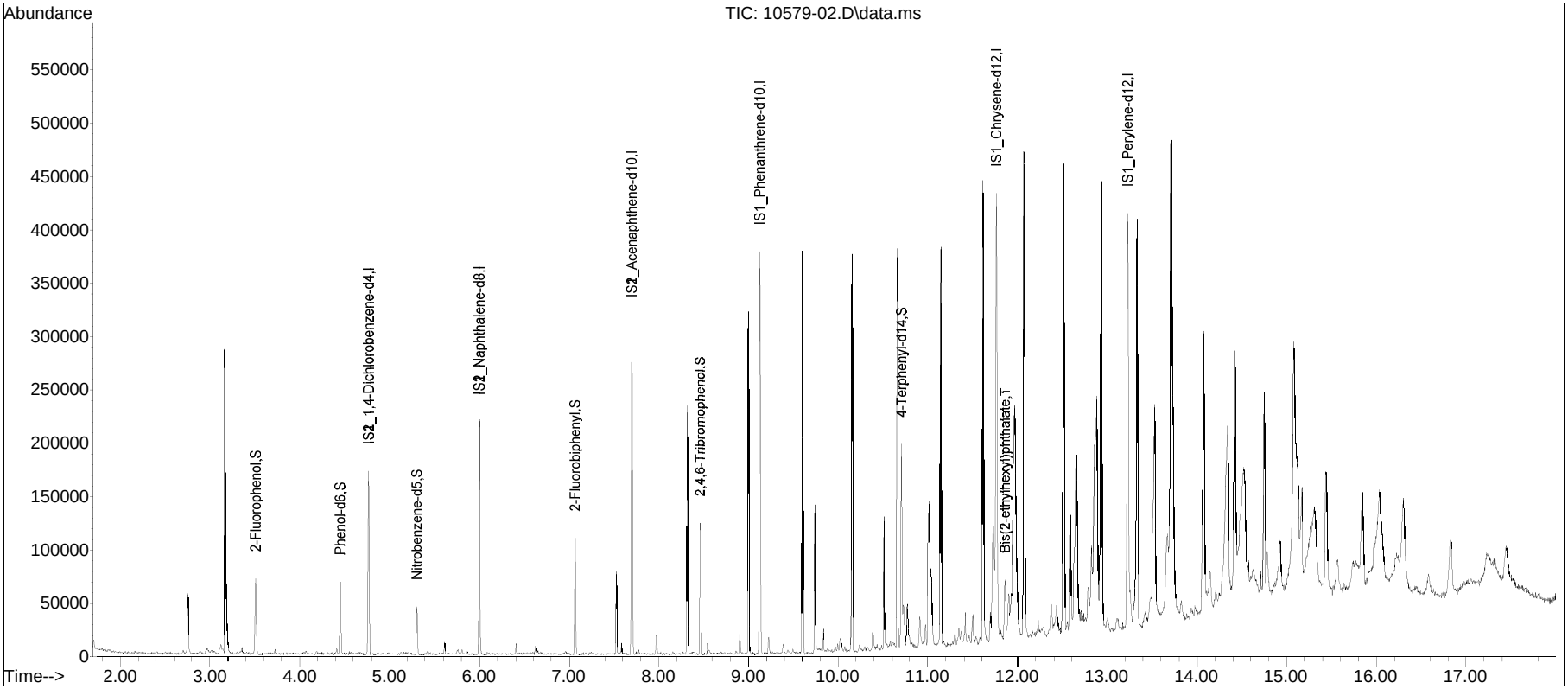
(#) = qualifier out of range (m) = manual integration (+) = signals summed

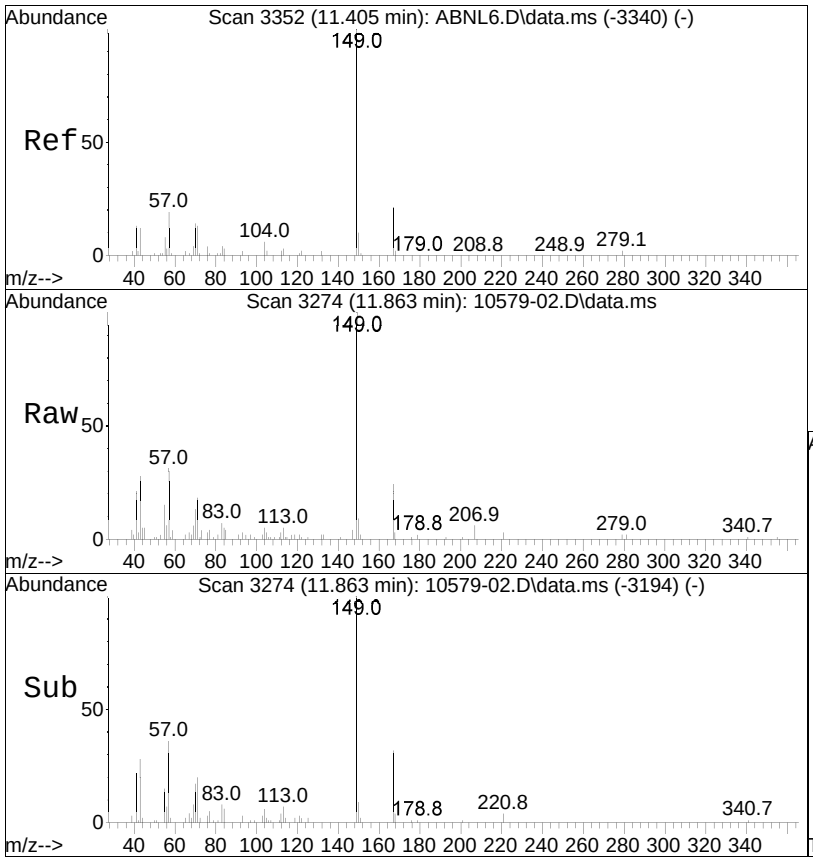
Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240303alvi\
Data File : 10579-02.D
Acq On : 3 Mar 2024 4:08 pm
Operator : Dakota:sz
Sample : L2410579-02,32,,cmm
Misc : wg1891643,WG1891419,ical20900
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Mar 04 11:10:18 2024
Quant Method : I:\8270\dakota\240303alvi\FS240228LVIDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sun Mar 03 16:26:50 2024
Response via : Initial Calibration

Sub List : 8270TCL_combo_REV1 - TCL/CT/MAAPDP0303.D•

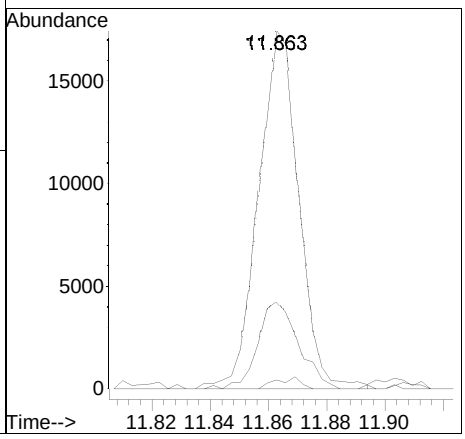




#104
Bis(2-ethylhexyl)phthalate
Concen: 0.88 ug/ml
RT: 11.863 min Scan# 3274
Delta R.T. -0.000 min
Lab File: 10579-02.D
Acq: 3 Mar 2024 4:08 pm

Tgt Ion:149 Resp: 16615

Ion	Ratio	Lower	Upper
149	100		
167	24.8	22.1	33.1
279	0.0	3.0	4.4#



Manual Integration Report

Data Path	: I:\8270\Dakota\240303alvi\	QMethod	: FS240228LVIDakota.m
Data File	: 10579-02.D	Operator	: Dakota:sz
Date Inj'd	: 3/3/2024 4:08 pm	Instrument	: Dakota
Sample	: L2410579-02,32,,cmm	Quant Date	: 3/3/2024 4:26 pm

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240303alvi\
Data File : 10579-03.D
Acq On : 3 Mar 2024 4:30 pm
Operator : Dakota:sz
Sample : L2410579-03,32,,cmm
Misc : wg1891643,WG1891419,ical20900
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Mar 04 11:10:59 2024
Quant Method : I:\8270\dakota\240303alvi\FS240228LVIDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sun Mar 03 16:49:01 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\240303alvi\ABN0303.D
: 2 - I:\8270\Dakota\240303alvi\APDP0303.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	4.767	152	27622	4.000	ug/ml	0.00
Standard Area 1 = 26057			Recovery = 106.01%			
27) IS2_1,4-Dichlorobenzen...	4.767	152	27622	4.000	ug/ml	0.00
Standard Area 2 = 25986			Recovery = 106.30%			
33) IS1_Naphthalene-d8	6.001	136	96919	4.000	ug/ml	# 0.00
Standard Area 1 = 90237			Recovery = 107.40%			
53) IS2_Naphthalene-d8	6.001	136	96919	4.000	ug/ml	# 0.00
Standard Area 2 = 94225			Recovery = 102.86%			
61) IS1_Acenaphthene-d10	7.701	164	67240	4.000	ug/ml	0.00
Standard Area 1 = 59066			Recovery = 113.84%			
81) IS2_Acenaphthene-d10	7.701	164	67240	4.000	ug/ml	0.00
Standard Area 2 = 65631			Recovery = 102.45%			
85) IS1_Phenanthrene-d10	9.131	188	153468	4.000	ug/ml	0.00
Standard Area 1 = 135391			Recovery = 113.35%			
100) IS1_Chrysene-d12	11.763	240	153888	4.000	ug/ml	0.00
Standard Area 1 = 147630			Recovery = 104.24%			
109) IS1_Perylene-d12	13.227	264	180619	4.000	ug/ml	0.00
Standard Area 1 = 173682			Recovery = 103.99%			
System Monitoring Compounds						
4) 2-Fluorophenol	3.508	112	14555	1.968	ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 39.36%			
7) Phenol-d6	4.450	99	16540	1.731	ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 34.62%			
19) Nitrobenzene-d5	5.308	82	10706	1.244	ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 49.76%			
44) 2-Fluorobiphenyl	7.067	172	27782	1.279	ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 51.16%			
77) 2,4,6-Tribromophenol	8.466	330	10861	2.459	ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 49.18%			
93) 4-Terphenyl-d14	10.707	244	60585	1.511	ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 60.44%			
Target Compounds						Qvalue
6) 2-Chlorophenol	0.000		0	N.D.		
8) Phenol	0.000		0	N.D.		
9) Bis(2-chloroethyl)ether	0.000		0	N.D.		

Data Path : I:\8270\Dakota\240303alvi\
Data File : 10579-03.D
Acq On : 3 Mar 2024 4:30 pm
Operator : Dakota:sz
Sample : L2410579-03,32,,cmm
Misc : wg1891643,WG1891419,ical20900
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Mar 04 11:10:59 2024
Quant Method : I:\8270\dakota\240303alvi\FS240228LVIDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sun Mar 03 16:49:01 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\240303alvi\ABN0303.D
: 2 - I:\8270\Dakota\240303alvi\APDP0303.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
14) Bis(2-chloroisopropyl)...	0.000		0		N.D.	
15) 2-Methylphenol	0.000		0		N.D.	
17) n-Nitrosodi-n-propylamine	0.000		0		N.D.	d
18) 3-Methylphenol/4-Methy...	0.000		0		N.D.	
20) Nitrobenzene	0.000		0		N.D.	
21) Isophorone	0.000		0		N.D.	
22) 2-Nitrophenol	0.000		0		N.D.	
23) 2,4-Dimethylphenol	0.000		0		N.D.	
24) Bis(2-chloroethoxy)met...	0.000		0		N.D.	
25) 2,4-Dichlorophenol	0.000		0		N.D.	
28) Benzaldehyde	0.000		0		N.D.	d
29) Acetophenone	0.000		0		N.D.	
36) 4-Chloroaniline	0.000		0		N.D.	
38) p-Chloro-m-cresol	0.000		0		N.D.	
41) Hexachlorocyclopentadiene	0.000		0		N.D.	
42) 2,4,6-Trichlorophenol	0.000		0		N.D.	
43) 2,4,5-Trichlorophenol	0.000		0		N.D.	
46) 2-Nitroaniline	0.000		0		N.D.	
49) Dimethyl phthalate	0.000		0		N.D.	
51) 2,6-Dinitrotoluene	0.000		0		N.D.	d
58) Caprolactam	0.000		0		N.D.	d
59) 1,2,4,5-Tetrachloroben...	0.000		0		N.D.	
60) Biphenyl	0.000		0		N.D.	
62) 3-Nitroaniline	0.000		0		N.D.	
64) 2,4-Dinitrophenol	0.000		0		N.D.	
65) Dibenzofuran	0.000		0		N.D.	
66) 2,4-Dinitrotoluene	0.000		0		N.D.	d
67) 4-Nitrophenol	0.000		0		N.D.	
69) 2,3,4,6-Tetrachlorophenol	0.000		0		N.D.	
70) Diethyl phthalate	0.000		0		N.D.	d
72) 4-Chlorophenyl phenyl ...	0.000		0		N.D.	
73) 4-Nitroaniline	0.000		0		N.D.	
74) 4,6-Dinitro-o-cresol	0.000		0		N.D.	
75) NDPA/DPA	0.000		0		N.D.	d
78) 4-Bromophenyl phenyl e...	0.000		0		N.D.	
84) Atrazine	0.000		0		N.D.	
88) Carbazole	0.000		0		N.D.	
89) Di-n-butylphthalate	0.000		0		N.D.	d

Data Path : I:\8270\Dakota\240303alvi\
Data File : 10579-03.D
Acq On : 3 Mar 2024 4:30 pm
Operator : Dakota:sz
Sample : L2410579-03,32,,cmm
Misc : wg1891643,WG1891419,ical20900
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Mar 04 11:10:59 2024
Quant Method : I:\8270\dakota\240303alvi\FS240228LVIDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sun Mar 03 16:49:01 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\240303alvi\ABN0303.D
: 2 - I:\8270\Dakota\240303alvi\APDP0303.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
94)	Butyl benzyl phthalate	0.000		0	N.D.	d	
102)	3,3'-Dichlorobenzidine	0.000		0	N.D.		
104)	Bis(2-ethylhexyl)phtha...	11.866	149	14172	0.712	ug/ml#	89
105)	Di-n-octylphthalate	0.000		0	N.D.	d	

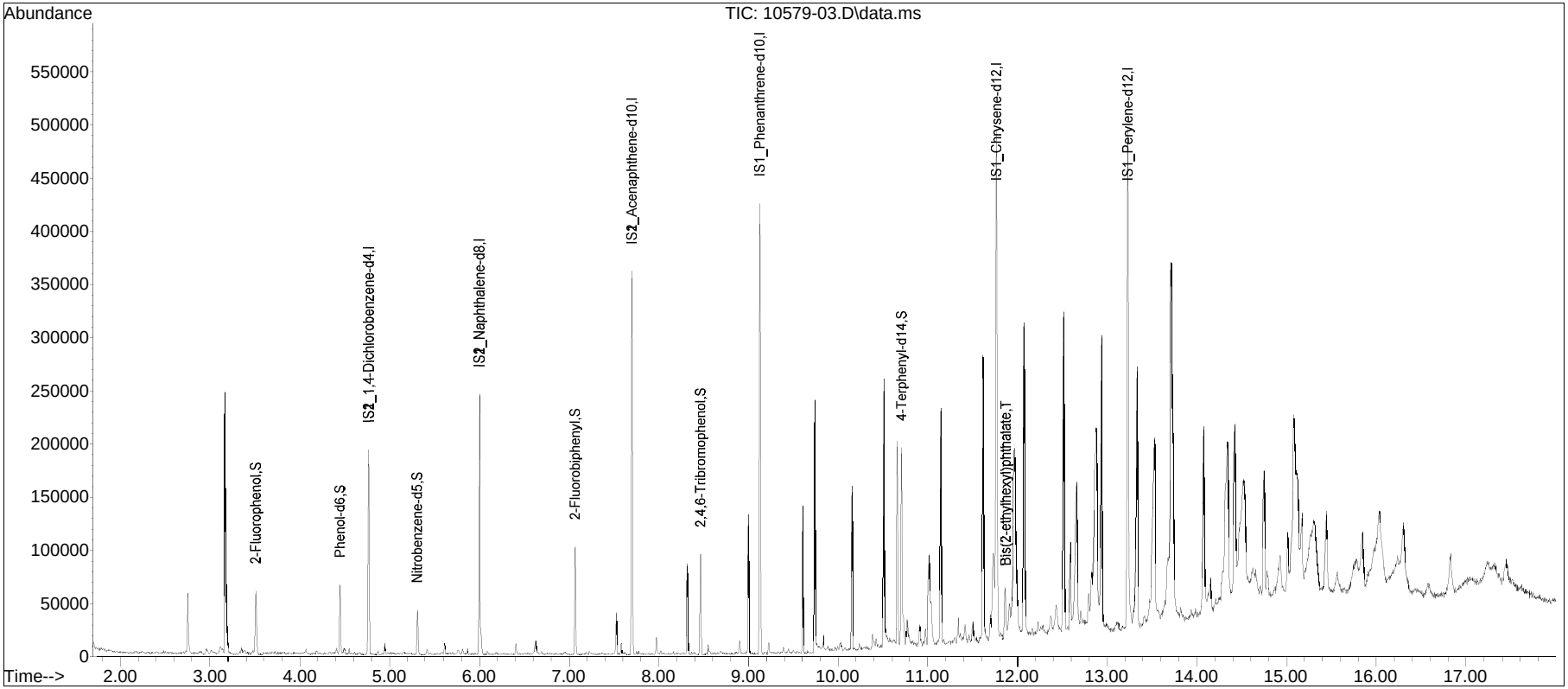
(#) = qualifier out of range (m) = manual integration (+) = signals summed

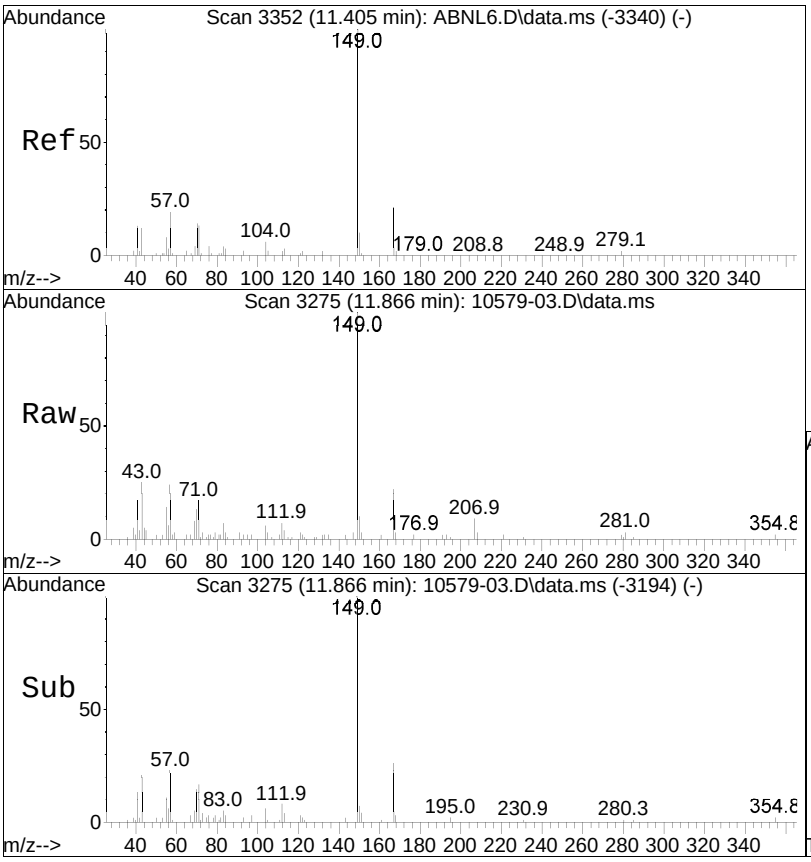
Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240303alvi\
Data File : 10579-03.D
Acq On : 3 Mar 2024 4:30 pm
Operator : Dakota:sz
Sample : L2410579-03,32,,cmm
Misc : wg1891643,WG1891419,ical20900
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Mar 04 11:10:59 2024
Quant Method : I:\8270\dakota\240303alvi\FS240228LVIDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sun Mar 03 16:49:01 2024
Response via : Initial Calibration

Sub List : 8270TCL_combo_REV1 - TCL/CT/MAAPDP0303.D•

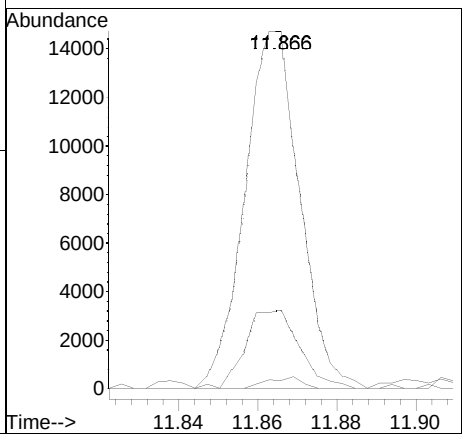




#104
Bis(2-ethylhexyl)phthalate
Concen: 0.71 ug/ml
RT: 11.866 min Scan# 3275
Delta R.T. 0.003 min
Lab File: 10579-03.D
Acq: 3 Mar 2024 4:30 pm

Tgt Ion:149 Resp: 14172

Ion	Ratio	Lower	Upper
149	100		
167	21.6	22.1	33.1#
279	0.0	3.0	4.4#



Manual Integration Report

Data Path	: I:\8270\Dakota\240303alvi\	QMethod	: FS240228LVIDakota.m
Data File	: 10579-03.D	Operator	: Dakota:sz
Date Inj'd	: 3/3/2024 4:30 pm	Instrument	: Dakota
Sample	: L2410579-03,32,,cmm	Quant Date	: 3/3/2024 4:49 pm

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240303alvi\
Data File : 10579-06.D
Acq On : 3 Mar 2024 4:52 pm
Operator : Dakota:sz
Sample : L2410579-06,32,,cmm
Misc : wg1891643,WG1891419,ical20900
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Mar 04 11:11:35 2024
Quant Method : I:\8270\dakota\240303alvi\FS240228LVIDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sun Mar 03 17:11:33 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\240303alvi\ABN0303.D
: 2 - I:\8270\Dakota\240303alvi\APDP0303.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	4.767	152	27466	4.000	ug/ml	0.00
Standard Area 1 = 26057			Recovery = 105.41%			
27) IS2_1,4-Dichlorobenzen...	4.767	152	27466	4.000	ug/ml	0.00
Standard Area 2 = 25986			Recovery = 105.70%			
33) IS1_Naphthalene-d8	6.001	136	96869	4.000	ug/ml	# 0.00
Standard Area 1 = 90237			Recovery = 107.35%			
53) IS2_Naphthalene-d8	6.001	136	96869	4.000	ug/ml	# 0.00
Standard Area 2 = 94225			Recovery = 102.81%			
61) IS1_Acenaphthene-d10	7.701	164	66044	4.000	ug/ml	0.00
Standard Area 1 = 59066			Recovery = 111.81%			
81) IS2_Acenaphthene-d10	7.701	164	66044	4.000	ug/ml	0.00
Standard Area 2 = 65631			Recovery = 100.63%			
85) IS1_Phenanthrene-d10	9.131	188	148596	4.000	ug/ml	0.00
Standard Area 1 = 135391			Recovery = 109.75%			
100) IS1_Chrysene-d12	11.763	240	148718	4.000	ug/ml	0.00
Standard Area 1 = 147630			Recovery = 100.74%			
109) IS1_Perylene-d12	13.227	264	176189	4.000	ug/ml	0.00
Standard Area 1 = 173682			Recovery = 101.44%			
System Monitoring Compounds						
4) 2-Fluorophenol	3.511	112	17710	2.409	ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 48.18%			
7) Phenol-d6	4.450	99	19366	2.039	ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 40.78%			
19) Nitrobenzene-d5	5.308	82	11528	1.347	ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 53.88%			
44) 2-Fluorobiphenyl	7.067	172	30408	1.400	ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 56.00%			
77) 2,4,6-Tribromophenol	8.466	330	15166	3.496	ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 69.92%			
93) 4-Terphenyl-d14	10.707	244	63741	1.642	ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 65.68%			
Target Compounds						Qvalue
6) 2-Chlorophenol	0.000		0	N.D.		
8) Phenol	0.000		0	N.D.		
9) Bis(2-chloroethyl)ether	0.000		0	N.D.		

Data Path : I:\8270\Dakota\240303alvi\
Data File : 10579-06.D
Acq On : 3 Mar 2024 4:52 pm
Operator : Dakota:sz
Sample : L2410579-06,32,,cmm
Misc : wg1891643,WG1891419,ical20900
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Mar 04 11:11:35 2024
Quant Method : I:\8270\dakota\240303alvi\FS240228LVIDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sun Mar 03 17:11:33 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\240303alvi\ABN0303.D
: 2 - I:\8270\Dakota\240303alvi\APDP0303.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
14) Bis(2-chloroisopropyl)...	0.000		0		N.D.	
15) 2-Methylphenol	0.000		0		N.D.	
17) n-Nitrosodi-n-propylamine	0.000		0		N.D.	d
18) 3-Methylphenol/4-Methy...	0.000		0		N.D.	
20) Nitrobenzene	0.000		0		N.D.	
21) Isophorone	0.000		0		N.D.	
22) 2-Nitrophenol	0.000		0		N.D.	
23) 2,4-Dimethylphenol	0.000		0		N.D.	
24) Bis(2-chloroethoxy)met...	0.000		0		N.D.	
25) 2,4-Dichlorophenol	0.000		0		N.D.	
28) Benzaldehyde	0.000		0		N.D.	
29) Acetophenone	0.000		0		N.D.	
36) 4-Chloroaniline	0.000		0		N.D.	
38) p-Chloro-m-cresol	0.000		0		N.D.	
41) Hexachlorocyclopentadiene	0.000		0		N.D.	
42) 2,4,6-Trichlorophenol	0.000		0		N.D.	
43) 2,4,5-Trichlorophenol	0.000		0		N.D.	
46) 2-Nitroaniline	0.000		0		N.D.	
49) Dimethyl phthalate	0.000		0		N.D.	
51) 2,6-Dinitrotoluene	0.000		0		N.D.	d
58) Caprolactam	0.000		0		N.D.	d
59) 1,2,4,5-Tetrachloroben...	0.000		0		N.D.	
60) Biphenyl	0.000		0		N.D.	
62) 3-Nitroaniline	0.000		0		N.D.	
64) 2,4-Dinitrophenol	0.000		0		N.D.	
65) Dibenzofuran	0.000		0		N.D.	
66) 2,4-Dinitrotoluene	0.000		0		N.D.	d
67) 4-Nitrophenol	0.000		0		N.D.	
69) 2,3,4,6-Tetrachlorophenol	0.000		0		N.D.	
70) Diethyl phthalate	0.000		0		N.D.	d
72) 4-Chlorophenyl phenyl ...	0.000		0		N.D.	
73) 4-Nitroaniline	0.000		0		N.D.	
74) 4,6-Dinitro-o-cresol	0.000		0		N.D.	
75) NDPA/DPA	0.000		0		N.D.	
78) 4-Bromophenyl phenyl e...	0.000		0		N.D.	
84) Atrazine	0.000		0		N.D.	
88) Carbazole	0.000		0		N.D.	
89) Di-n-butylphthalate	0.000		0		N.D.	d

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240303alvi\
Data File : 10579-06.D
Acq On : 3 Mar 2024 4:52 pm
Operator : Dakota:sz
Sample : L2410579-06,32,,cmm
Misc : wg1891643,WG1891419,ical20900
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Mar 04 11:11:35 2024
Quant Method : I:\8270\dakota\240303alvi\FS240228LVIDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sun Mar 03 17:11:33 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\240303alvi\ABN0303.D
: 2 - I:\8270\Dakota\240303alvi\APDP0303.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
94) Butyl benzyl phthalate	0.000		0	N.D.	d	
102) 3,3'-Dichlorobenzidine	0.000		0	N.D.		
104) Bis(2-ethylhexyl)phtha...	11.863	149	5276	0.427	ug/ml#	92
105) Di-n-octylphthalate	0.000		0	N.D.	d	

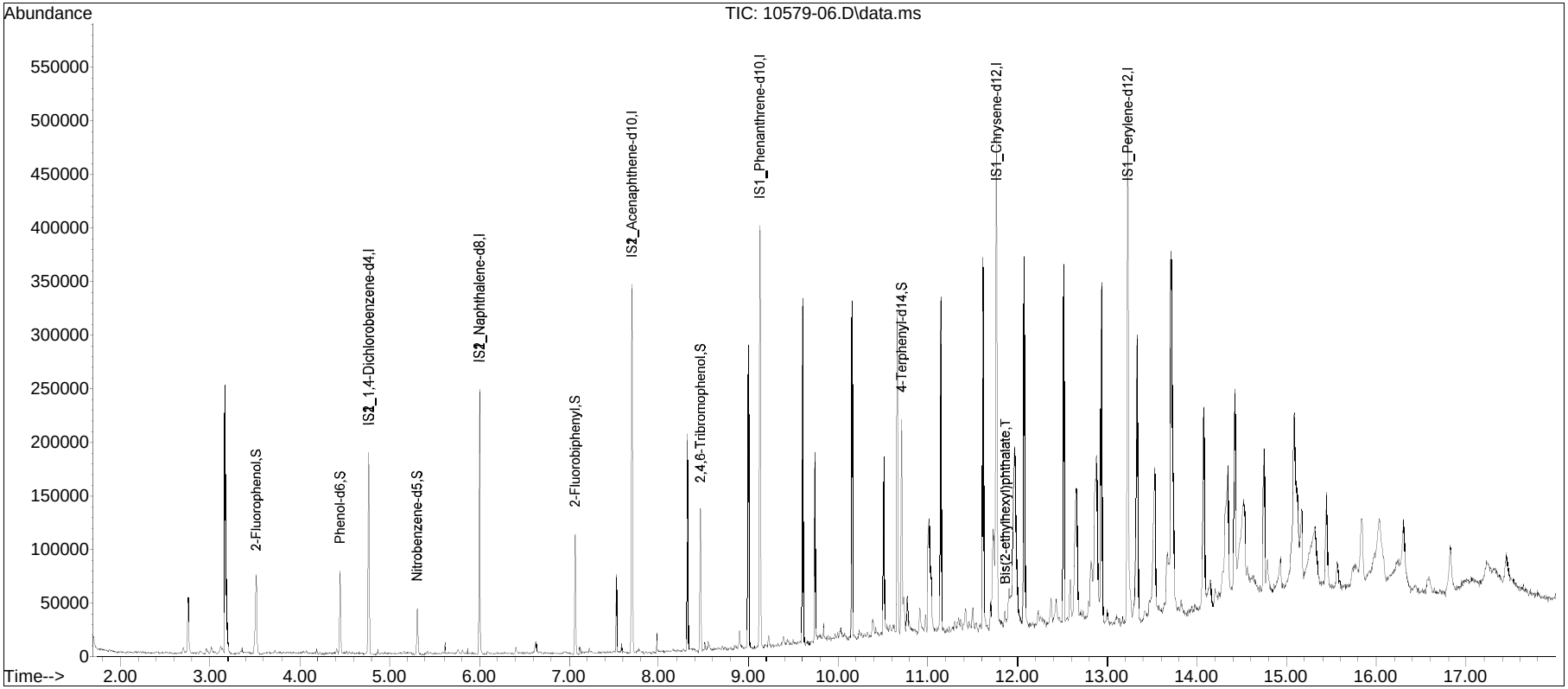
(#) = qualifier out of range (m) = manual integration (+) = signals summed

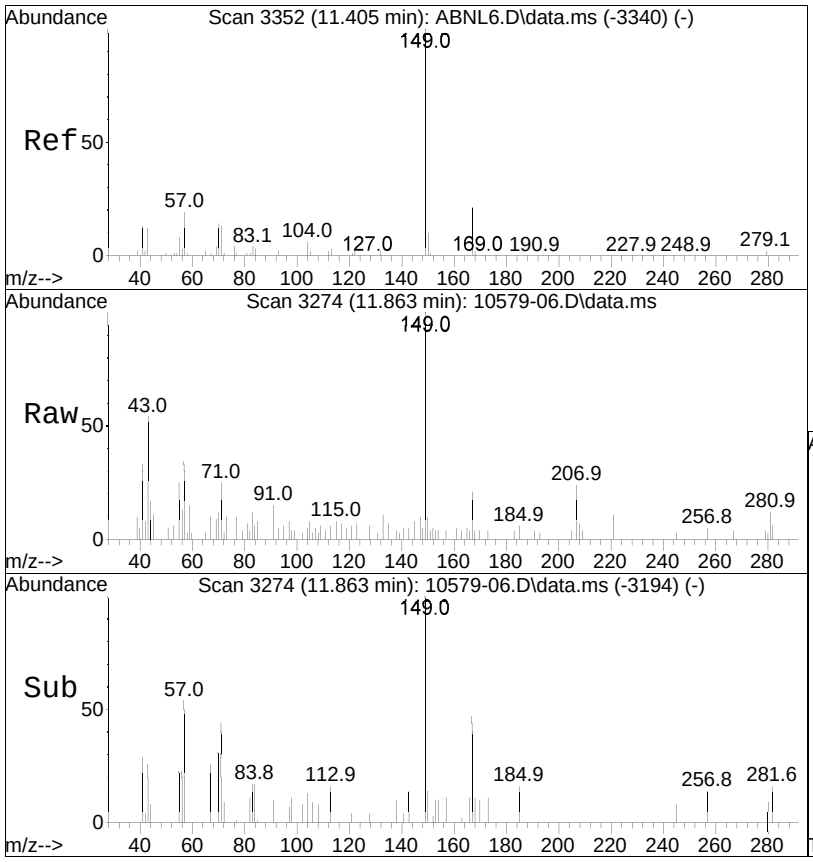
Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240303alvi\
Data File : 10579-06.D
Acq On : 3 Mar 2024 4:52 pm
Operator : Dakota:sz
Sample : L2410579-06,32,,cmm
Misc : wg1891643,WG1891419,ical20900
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Mar 04 11:11:35 2024
Quant Method : I:\8270\dakota\240303alvi\FS240228LVIDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sun Mar 03 17:11:33 2024
Response via : Initial Calibration

Sub List : 8270TCL_combo_REV1 - TCL/CT/MAAPDP0303.D•

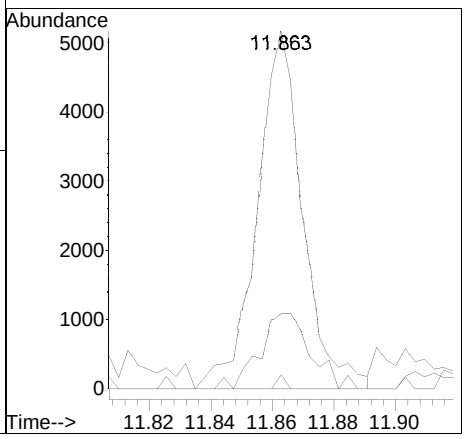




#104
Bis(2-ethylhexyl)phthalate
Concen: 0.43 ug/ml
RT: 11.863 min Scan# 3274
Delta R.T. -0.000 min
Lab File: 10579-06.D
Acq: 3 Mar 2024 4:52 pm

Tgt Ion:149 Resp: 5276

Ion	Ratio	Lower	Upper
149	100		
167	23.8	22.1	33.1
279	0.0	3.0	4.4#



Manual Integration Report

Data Path	: I:\8270\Dakota\240303alvi\	QMethod	: FS240228LVIDakota.m
Data File	: 10579-06.D	Operator	: Dakota:sz
Date Inj'd	: 3/3/2024 4:52 pm	Instrument	: Dakota
Sample	: L2410579-06,32,,cmm	Quant Date	: 3/3/2024 5:11 pm

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240303alvi\
Data File : 10579-07.D
Acq On : 3 Mar 2024 5:15 pm
Operator : Dakota:sz
Sample : L2410579-07,32,,cmm
Misc : wg1891643,WG1891419,ical20900
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Mar 04 11:12:18 2024
Quant Method : I:\8270\dakota\240303alvi\FS240228LVIDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sun Mar 03 17:34:22 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\240303alvi\ABN0303.D
: 2 - I:\8270\Dakota\240303alvi\APDP0303.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	4.767	152	25789	4.000	ug/ml	0.00
Standard Area 1 = 26057			Recovery = 98.97%			
27) IS2_1,4-Dichlorobenzen...	4.767	152	25789	4.000	ug/ml	0.00
Standard Area 2 = 25986			Recovery = 99.24%			
33) IS1_Naphthalene-d8	5.998	136	90551	4.000	ug/ml	# 0.00
Standard Area 1 = 90237			Recovery = 100.35%			
53) IS2_Naphthalene-d8	5.998	136	90551	4.000	ug/ml	# 0.00
Standard Area 2 = 94225			Recovery = 96.10%			
61) IS1_Acenaphthene-d10	7.701	164	61980	4.000	ug/ml	0.00
Standard Area 1 = 59066			Recovery = 104.93%			
81) IS2_Acenaphthene-d10	7.701	164	61980	4.000	ug/ml	0.00
Standard Area 2 = 65631			Recovery = 94.44%			
85) IS1_Phenanthrene-d10	9.131	188	141173	4.000	ug/ml	0.00
Standard Area 1 = 135391			Recovery = 104.27%			
100) IS1_Chrysene-d12	11.763	240	145327	4.000	ug/ml	# 0.00
Standard Area 1 = 147630			Recovery = 98.44%			
109) IS1_Perylene-d12	13.227	264	164220	4.000	ug/ml	0.00
Standard Area 1 = 173682			Recovery = 94.55%			
System Monitoring Compounds						
4) 2-Fluorophenol	3.508	112	16535	2.395	ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 47.90%			
7) Phenol-d6	4.450	99	18178	2.038	ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 40.76%			
19) Nitrobenzene-d5	5.308	82	11039	1.374	ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 54.96%			
44) 2-Fluorobiphenyl	7.067	172	30851	1.520	ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 60.80%			
77) 2,4,6-Tribromophenol	8.466	330	13740	3.375	ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 67.50%			
93) 4-Terphenyl-d14	10.707	244	63399	1.719	ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 68.76%			
Target Compounds						Qvalue
6) 2-Chlorophenol	0.000		0	N.D.		
8) Phenol	0.000		0	N.D.		
9) Bis(2-chloroethyl)ether	0.000		0	N.D.		

Data Path : I:\8270\Dakota\240303alvi\
Data File : 10579-07.D
Acq On : 3 Mar 2024 5:15 pm
Operator : Dakota:sz
Sample : L2410579-07,32,,cmm
Misc : wg1891643,WG1891419,ical20900
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Mar 04 11:12:18 2024
Quant Method : I:\8270\dakota\240303alvi\FS240228LVIDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sun Mar 03 17:34:22 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\240303alvi\ABN0303.D
: 2 - I:\8270\Dakota\240303alvi\APDP0303.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
14) Bis(2-chloroisopropyl)...	0.000		0		N.D.	
15) 2-Methylphenol	0.000		0		N.D.	
17) n-Nitrosodi-n-propylamine	0.000		0		N.D.	d
18) 3-Methylphenol/4-Methy...	0.000		0		N.D.	
20) Nitrobenzene	0.000		0		N.D.	
21) Isophorone	0.000		0		N.D.	
22) 2-Nitrophenol	0.000		0		N.D.	
23) 2,4-Dimethylphenol	0.000		0		N.D.	
24) Bis(2-chloroethoxy)met...	0.000		0		N.D.	
25) 2,4-Dichlorophenol	0.000		0		N.D.	
28) Benzaldehyde	0.000		0		N.D.	
29) Acetophenone	0.000		0		N.D.	
36) 4-Chloroaniline	0.000		0		N.D.	
38) p-Chloro-m-cresol	0.000		0		N.D.	
41) Hexachlorocyclopentadiene	0.000		0		N.D.	
42) 2,4,6-Trichlorophenol	0.000		0		N.D.	
43) 2,4,5-Trichlorophenol	0.000		0		N.D.	
46) 2-Nitroaniline	0.000		0		N.D.	
49) Dimethyl phthalate	0.000		0		N.D.	d
51) 2,6-Dinitrotoluene	0.000		0		N.D.	d
58) Caprolactam	0.000		0		N.D.	d
59) 1,2,4,5-Tetrachloroben...	0.000		0		N.D.	
60) Biphenyl	0.000		0		N.D.	
62) 3-Nitroaniline	0.000		0		N.D.	
64) 2,4-Dinitrophenol	0.000		0		N.D.	
65) Dibenzofuran	0.000		0		N.D.	
66) 2,4-Dinitrotoluene	0.000		0		N.D.	d
67) 4-Nitrophenol	0.000		0		N.D.	
69) 2,3,4,6-Tetrachlorophenol	0.000		0		N.D.	
70) Diethyl phthalate	0.000		0		N.D.	
72) 4-Chlorophenyl phenyl ...	0.000		0		N.D.	
73) 4-Nitroaniline	0.000		0		N.D.	
74) 4,6-Dinitro-o-cresol	0.000		0		N.D.	
75) NDPA/DPA	0.000		0		N.D.	
78) 4-Bromophenyl phenyl e...	0.000		0		N.D.	
84) Atrazine	0.000		0		N.D.	
88) Carbazole	0.000		0		N.D.	
89) Di-n-butylphthalate	0.000		0		N.D.	d

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240303alvi\
Data File : 10579-07.D
Acq On : 3 Mar 2024 5:15 pm
Operator : Dakota:sz
Sample : L2410579-07,32,,cmm
Misc : wg1891643,WG1891419,ical20900
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Mar 04 11:12:18 2024
Quant Method : I:\8270\dakota\240303alvi\FS240228LVIDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sun Mar 03 17:34:22 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\240303alvi\ABN0303.D
: 2 - I:\8270\Dakota\240303alvi\APDP0303.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
94) Butyl benzyl phthalate	0.000		0	N.D.	d	
102) 3,3'-Dichlorobenzidine	0.000		0	N.D.		
104) Bis(2-ethylhexyl)phtha...	11.863	149	3315	0.364	ug/ml#	94
105) Di-n-octylphthalate	0.000		0	N.D.	d	

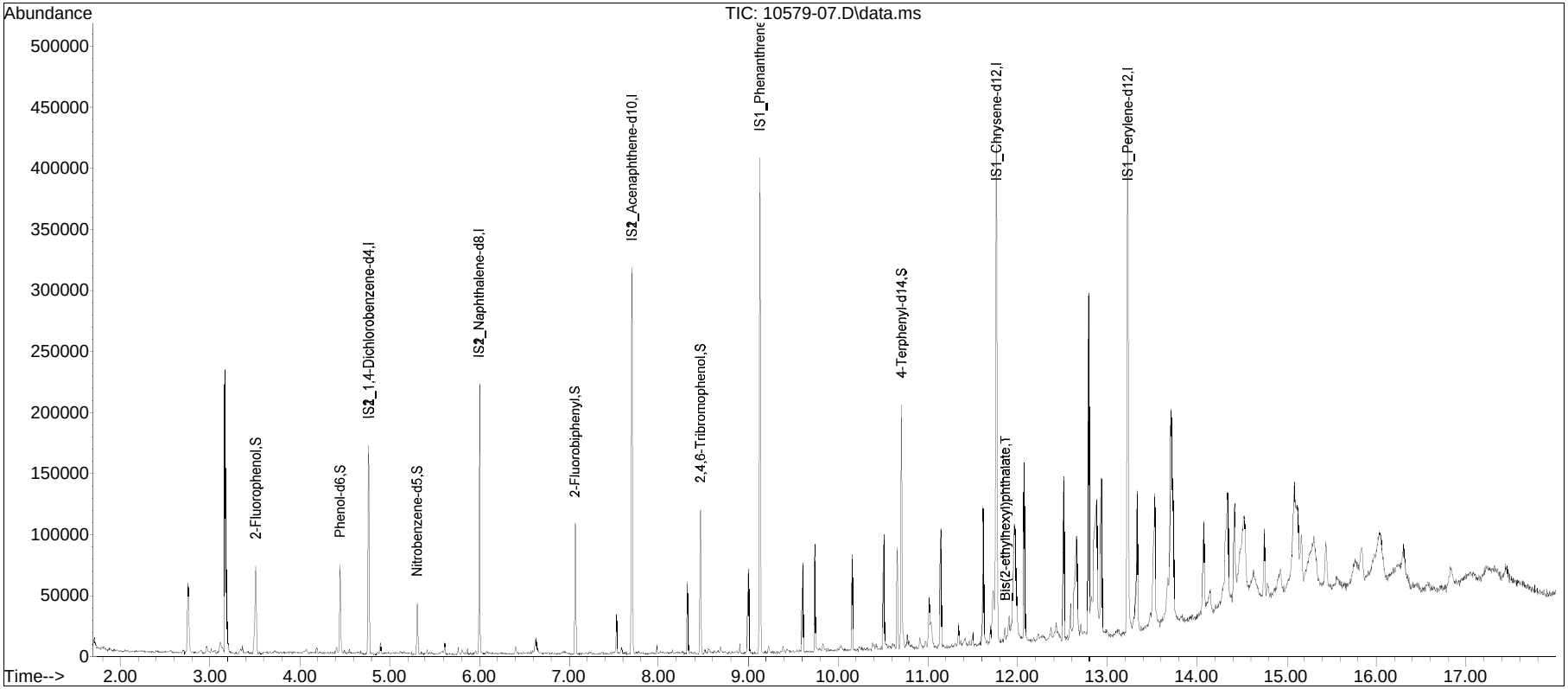
(#) = qualifier out of range (m) = manual integration (+) = signals summed

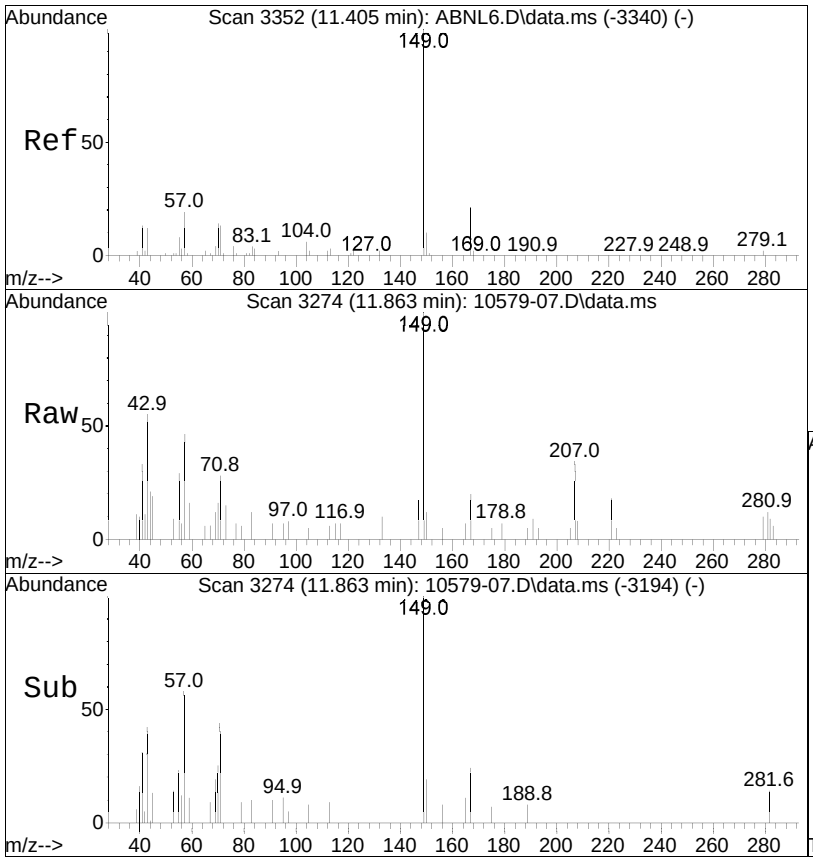
Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240303alvi\
Data File : 10579-07.D
Acq On : 3 Mar 2024 5:15 pm
Operator : Dakota:sz
Sample : L2410579-07,32,,cmm
Misc : wg1891643,WG1891419,ical20900
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Mar 04 11:12:18 2024
Quant Method : I:\8270\dakota\240303alvi\FS240228LVIDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sun Mar 03 17:34:22 2024
Response via : Initial Calibration

Sub List : 8270TCL_combo_REV1 - TCL/CT/MAAPDP0303.D•

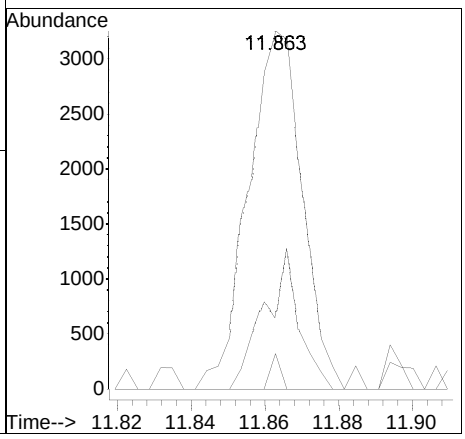




#104
Bis(2-ethylhexyl)phthalate
Concen: 0.36 ug/ml
RT: 11.863 min Scan# 3274
Delta R.T. -0.000 min
Lab File: 10579-07.D
Acq: 3 Mar 2024 5:15 pm

Tgt Ion:149 Resp: 3315

Ion	Ratio	Lower	Upper
149	100		
167	24.8	22.1	33.1
279	0.0	3.0	4.4#



Manual Integration Report

Data Path	: I:\8270\Dakota\240303alvi\	QMethod	: FS240228LVIDakota.m
Data File	: 10579-07.D	Operator	: Dakota:sz
Date Inj'd	: 3/3/2024 5:15 pm	Instrument	: Dakota
Sample	: L2410579-07,32,,cmm	Quant Date	: 3/3/2024 5:34 pm

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240303alvi\
Data File : 10579-09.D
Acq On : 3 Mar 2024 5:37 pm
Operator : Dakota:sz
Sample : L2410579-09,32,,cmm
Misc : wg1891643,WG1891419,ical20900
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Mar 04 11:13:03 2024
Quant Method : I:\8270\dakota\240303alvi\FS240228LVIDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sun Mar 03 17:56:22 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\240303alvi\ABN0303.D
: 2 - I:\8270\Dakota\240303alvi\APDP0303.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	4.767	152	26906	4.000	ug/ml	0.00
Standard Area 1 = 26057			Recovery = 103.26%			
27) IS2_1,4-Dichlorobenzen...	4.767	152	26906	4.000	ug/ml	0.00
Standard Area 2 = 25986			Recovery = 103.54%			
33) IS1_Naphthalene-d8	5.998	136	95321	4.000	ug/ml	# 0.00
Standard Area 1 = 90237			Recovery = 105.63%			
53) IS2_Naphthalene-d8	5.998	136	95321	4.000	ug/ml	# 0.00
Standard Area 2 = 94225			Recovery = 101.16%			
61) IS1_Acenaphthene-d10	7.701	164	66438	4.000	ug/ml	0.00
Standard Area 1 = 59066			Recovery = 112.48%			
81) IS2_Acenaphthene-d10	7.701	164	66438	4.000	ug/ml	0.00
Standard Area 2 = 65631			Recovery = 101.23%			
85) IS1_Phenanthrene-d10	9.131	188	148717	4.000	ug/ml	0.00
Standard Area 1 = 135391			Recovery = 109.84%			
100) IS1_Chrysene-d12	11.763	240	150470	4.000	ug/ml	0.00
Standard Area 1 = 147630			Recovery = 101.92%			
109) IS1_Perylene-d12	13.227	264	173350	4.000	ug/ml	0.00
Standard Area 1 = 173682			Recovery = 99.81%			
System Monitoring Compounds						
4) 2-Fluorophenol	3.508	112	18205	2.528	ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 50.56%			
7) Phenol-d6	4.450	99	19394	2.084	ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 41.68%			
19) Nitrobenzene-d5	5.308	82	11584	1.382	ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 55.28%			
44) 2-Fluorobiphenyl	7.064	172	32579	1.525	ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 61.00%			
77) 2,4,6-Tribromophenol	8.466	330	15185	3.479	ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 69.58%			
93) 4-Terphenyl-d14	10.707	244	64926	1.672	ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 66.88%			
Target Compounds						Qvalue
6) 2-Chlorophenol	0.000		0	N.D.		
8) Phenol	0.000		0	N.D.		
9) Bis(2-chloroethyl)ether	0.000		0	N.D.		

Data Path : I:\8270\Dakota\240303alvi\
Data File : 10579-09.D
Acq On : 3 Mar 2024 5:37 pm
Operator : Dakota:sz
Sample : L2410579-09,32,,cmm
Misc : wg1891643,WG1891419,ical20900
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Mar 04 11:13:03 2024
Quant Method : I:\8270\dakota\240303alvi\FS240228LVIDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sun Mar 03 17:56:22 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\240303alvi\ABN0303.D
: 2 - I:\8270\Dakota\240303alvi\APDP0303.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
14) Bis(2-chloroisopropyl)...	0.000		0		N.D.	
15) 2-Methylphenol	0.000		0		N.D.	
17) n-Nitrosodi-n-propylamine	0.000		0		N.D.	d
18) 3-Methylphenol/4-Methy...	0.000		0		N.D.	
20) Nitrobenzene	0.000		0		N.D.	
21) Isophorone	0.000		0		N.D.	
22) 2-Nitrophenol	0.000		0		N.D.	
23) 2,4-Dimethylphenol	0.000		0		N.D.	
24) Bis(2-chloroethoxy)met...	0.000		0		N.D.	
25) 2,4-Dichlorophenol	0.000		0		N.D.	
28) Benzaldehyde	0.000		0		N.D.	
29) Acetophenone	0.000		0		N.D.	
36) 4-Chloroaniline	0.000		0		N.D.	
38) p-Chloro-m-cresol	0.000		0		N.D.	
41) Hexachlorocyclopentadiene	0.000		0		N.D.	
42) 2,4,6-Trichlorophenol	0.000		0		N.D.	
43) 2,4,5-Trichlorophenol	0.000		0		N.D.	
46) 2-Nitroaniline	0.000		0		N.D.	
49) Dimethyl phthalate	0.000		0		N.D.	d
51) 2,6-Dinitrotoluene	0.000		0		N.D.	d
58) Caprolactam	0.000		0		N.D.	d
59) 1,2,4,5-Tetrachloroben...	0.000		0		N.D.	
60) Biphenyl	0.000		0		N.D.	
62) 3-Nitroaniline	0.000		0		N.D.	
64) 2,4-Dinitrophenol	0.000		0		N.D.	
65) Dibenzofuran	0.000		0		N.D.	
66) 2,4-Dinitrotoluene	0.000		0		N.D.	d
67) 4-Nitrophenol	0.000		0		N.D.	
69) 2,3,4,6-Tetrachlorophenol	0.000		0		N.D.	
70) Diethyl phthalate	0.000		0		N.D.	d
72) 4-Chlorophenyl phenyl ...	0.000		0		N.D.	
73) 4-Nitroaniline	0.000		0		N.D.	
74) 4,6-Dinitro-o-cresol	0.000		0		N.D.	
75) NDPA/DPA	0.000		0		N.D.	
78) 4-Bromophenyl phenyl e...	0.000		0		N.D.	
84) Atrazine	0.000		0		N.D.	
88) Carbazole	0.000		0		N.D.	
89) Di-n-butylphthalate	0.000		0		N.D.	d

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240303alvi\
Data File : 10579-09.D
Acq On : 3 Mar 2024 5:37 pm
Operator : Dakota:sz
Sample : L2410579-09,32,,cmm
Misc : wg1891643,WG1891419,ical20900
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Mar 04 11:13:03 2024
Quant Method : I:\8270\dakota\240303alvi\FS240228LVIDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sun Mar 03 17:56:22 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\240303alvi\ABN0303.D
: 2 - I:\8270\Dakota\240303alvi\APDP0303.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
94) Butyl benzyl phthalate	0.000		0	N.D.	d	
102) 3,3'-Dichlorobenzidine	0.000		0	N.D.		
104) Bis(2-ethylhexyl)phtha...	11.860	149	5229	0.424	ug/ml#	89
105) Di-n-octylphthalate	0.000		0	N.D.	d	

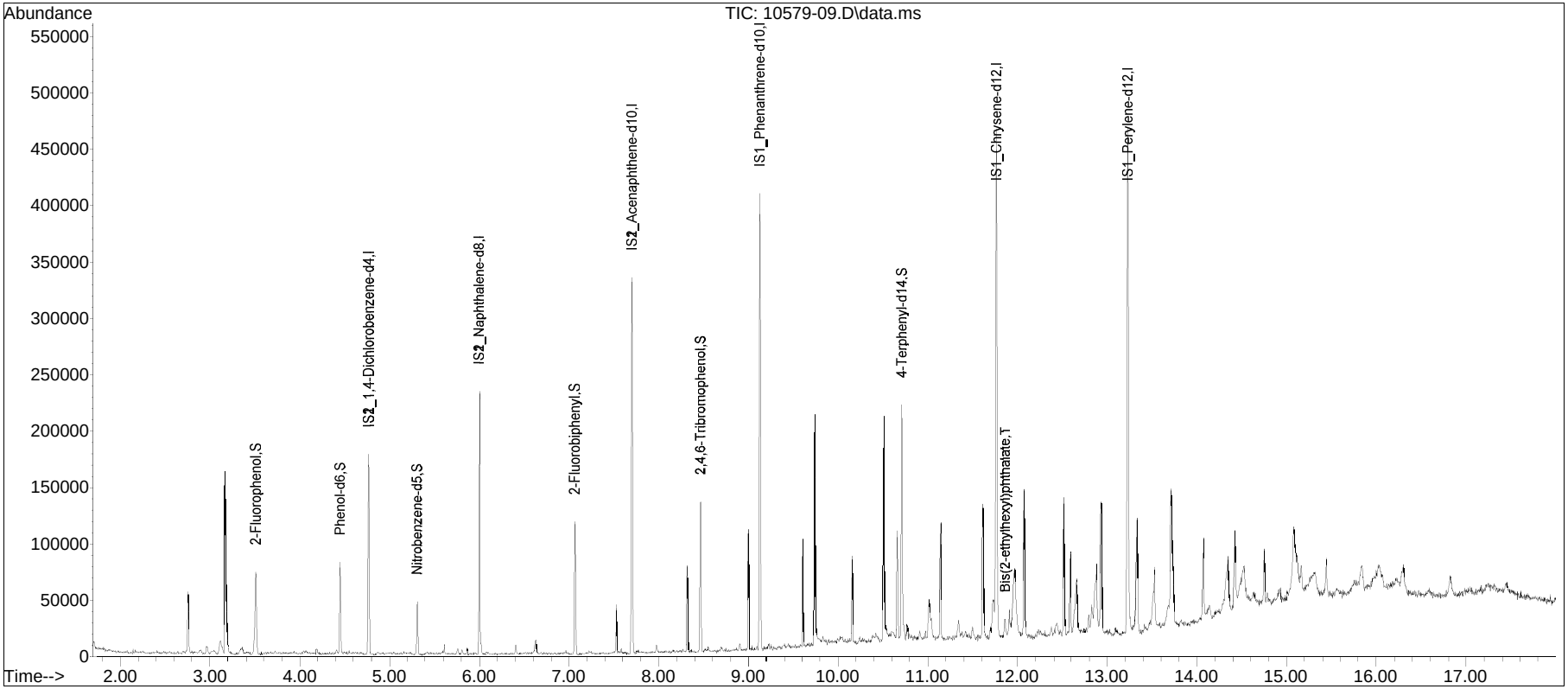
(#) = qualifier out of range (m) = manual integration (+) = signals summed

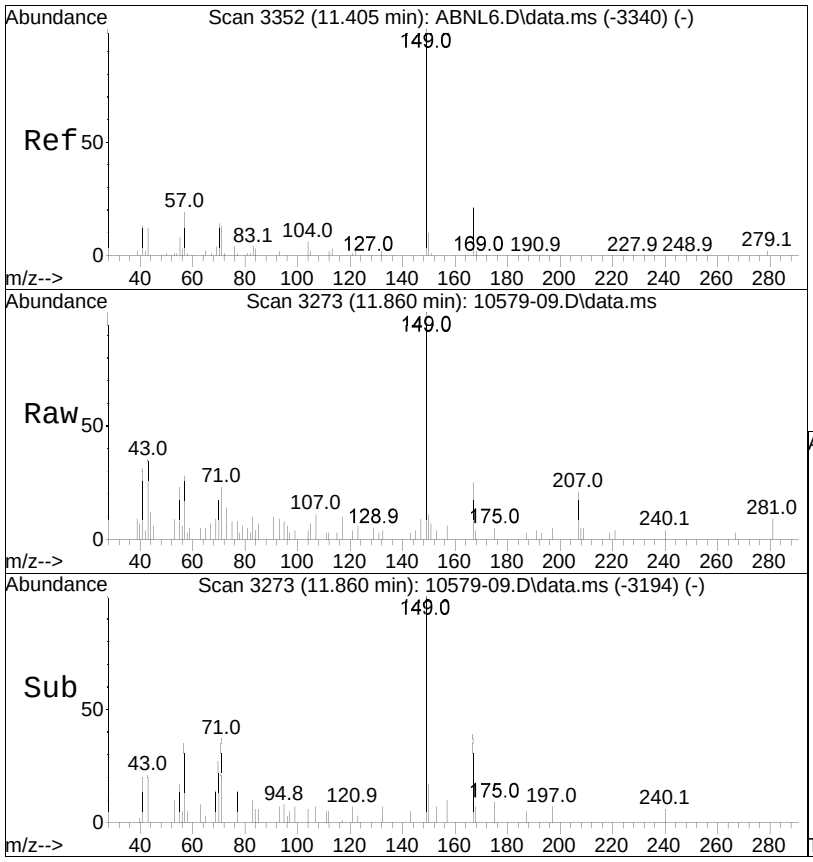
Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240303alvi\
Data File : 10579-09.D
Acq On : 3 Mar 2024 5:37 pm
Operator : Dakota:sz
Sample : L2410579-09,32,,cmm
Misc : wg1891643,WG1891419,ical20900
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Mar 04 11:13:03 2024
Quant Method : I:\8270\dakota\240303alvi\FS240228LVIDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sun Mar 03 17:56:22 2024
Response via : Initial Calibration

Sub List : 8270TCL_combo_REV1 - TCL/CT/MAAPDP0303.D•

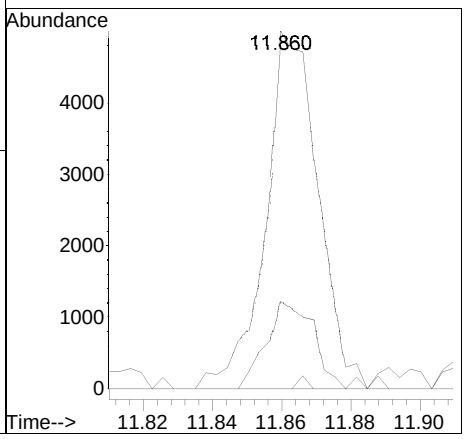




#104
Bis(2-ethylhexyl)phthalate
Concen: 0.42 ug/ml
RT: 11.860 min Scan# 3273
Delta R.T. -0.003 min
Lab File: 10579-09.D
Acq: 3 Mar 2024 5:37 pm

Tgt Ion:149 Resp: 5229

Ion	Ratio	Lower	Upper
149	100		
167	22.1	22.1	33.1#
279	0.0	3.0	4.4#



Manual Integration Report

Data Path	: I:\8270\Dakota\240303alvi\	QMethod	: FS240228LVIDakota.m
Data File	: 10579-09.D	Operator	: Dakota:sz
Date Inj'd	: 3/3/2024 5:37 pm	Instrument	: Dakota
Sample	: L2410579-09,32,,cmm	Quant Date	: 3/3/2024 5:56 pm

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240304nlvi\
Data File : 10579-04.D
Acq On : 5 Mar 2024 6:30 am
Operator : SV106:ljg
Sample : L2410579-04,32,,gmr
Misc : WG1891342,WG1892048,ical20337
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Mar 05 13:25:12 2024
Quant Method : I:\8270\SV106\240304nlvi\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Mar 05 11:20:52 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv106\240304nlvi\ABN0304n.D
: 2 - I:\8270\sv106\240304nlvi\ADP0304n.D
: 3 - I:\8270\sv106\240304nlvi\AP90304n.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) IS1_1,4-Dichlorobenzen...	6.325	152	47301	4.000	ug/ml		0.00
Standard Area 1 = 44264			Recovery = 106.86%				
27) IS2_1,4-Dichlorobenzen...	6.325	152	47301	4.000	ug/ml		0.00
Standard Area 3 = 45624			Recovery = 103.68%				
34) IS1_Naphthalene-d8	7.760	136	172176	4.000	ug/ml	#	0.00
Standard Area 1 = 170941			Recovery = 100.72%				
54) IS2_Naphthalene-d8	7.760	136	172176	4.000	ug/ml	#	0.00
Standard Area 3 = 165553			Recovery = 104.00%				
62) IS1_Acenaphthene-d10	9.525	164	105820	4.000	ug/ml		0.00
Standard Area 1 = 107442			Recovery = 98.49%				
82) IS2_Acenaphthene-d10	9.525	164	105820	4.000	ug/ml		0.00
Standard Area 3 = 100303			Recovery = 105.50%				
85) IS3_Acenaphthene-d10	9.525	164	105820	4.000	ug/ml		0.00
Standard Area 2 = 98087			Recovery = 107.88%				
87) IS1_Phenanthrene-d10	10.960	188	199032	4.000	ug/ml		0.00
Standard Area 1 = 227092			Recovery = 87.64%				
99) IS3_Phenanthrene-d10	10.960	188	199032	4.000	ug/ml		0.00
Standard Area 2 = 217156			Recovery = 91.65%				
103) IS1_Chrysene-d12	13.583	240	153868	4.000	ug/ml		0.00
Standard Area 1 = 207444			Recovery = 74.17%				
112) IS1_Perylene-d12	15.042	264	181964	4.000	ug/ml		0.00
Standard Area 1 = 227846			Recovery = 79.86%				
System Monitoring Compounds							
4) 2-Fluorophenol	4.343	112	34121	2.587	ug/ml		0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 51.74%				
7) Phenol-d6	5.960	99	36309	2.137	ug/ml		0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 42.74%				
19) Nitrobenzene-d5	6.989	82	25437	1.651	ug/ml		0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 66.04%				
45) 2-Fluorobiphenyl	8.889	172	55923	1.701	ug/ml		0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 68.04%				
78) 2,4,6-Tribromophenol	10.289	330	15324	3.156	ug/ml		0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 63.12%				
95) 4-Terphenyl-d14	12.542	244	68499	1.569	ug/ml		0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 62.76%				

Data Path : I:\8270\SV106\240304nlvi\
Data File : 10579-04.D
Acq On : 5 Mar 2024 6:30 am
Operator : SV106:ljg
Sample : L2410579-04,32,,gmr
Misc : WG1891342,WG1892048,ical20337
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Mar 05 13:25:12 2024
Quant Method : I:\8270\SV106\240304nlvi\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Mar 05 11:20:52 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv106\240304nlvi\ABN0304n.D
: 2 - I:\8270\sv106\240304nlvi\ADP0304n.D
: 3 - I:\8270\sv106\240304nlvi\AP90304n.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Target Compounds						Qvalue
6) 2-Chlorophenol	0.000		0	N.D.		
8) Phenol	0.000		0	N.D.		
9) Bis(2-chloroethyl)ether	0.000		0	N.D.		
14) Bis(2-chloroisopropyl)...	0.000		0	N.D.		
15) 2-Methylphenol	0.000		0	N.D.		
17) n-Nitrosodi-n-propylamine	0.000		0	N.D.	d	
18) 3-Methylphenol/4-Methy...	0.000		0	N.D.		
20) Nitrobenzene	0.000		0	N.D.		
21) Isophorone	0.000		0	N.D.		
22) 2-Nitrophenol	0.000		0	N.D.		
23) 2,4-Dimethylphenol	0.000		0	N.D.		
24) Bis(2-chloroethoxy)met...	0.000		0	N.D.		
25) 2,4-Dichlorophenol	0.000		0	N.D.		
28) Benzaldehyde	0.000		0	N.D.		
29) Acetophenone	0.000		0	N.D.		
37) 4-Chloroaniline	0.000		0	N.D.		
39) p-Chloro-m-cresol	0.000		0	N.D.		
42) Hexachlorocyclopentadiene	0.000		0	N.D.		
43) 2,4,6-Trichlorophenol	0.000		0	N.D.		
44) 2,4,5-Trichlorophenol	0.000		0	N.D.		
47) 2-Nitroaniline	0.000		0	N.D.		
50) Dimethyl phthalate	0.000		0	N.D.	d	
52) 2,6-Dinitrotoluene	0.000		0	N.D.	d	
59) Caprolactam	0.000		0	N.D.	d	
60) 1,2,4,5-Tetrachloroben...	0.000		0	N.D.		
61) Biphenyl	0.000		0	N.D.		
63) 3-Nitroaniline	0.000		0	N.D.		
65) 2,4-Dinitrophenol	0.000		0	N.D.		
66) Dibenzofuran	0.000		0	N.D.		
67) 2,4-Dinitrotoluene	0.000		0	N.D.	d	
68) 4-Nitrophenol	0.000		0	N.D.		
70) 2,3,4,6-Tetrachlorophenol	0.000		0	N.D.		
71) Diethyl phthalate	0.000		0	N.D.		
73) 4-Chlorophenyl phenyl ...	0.000		0	N.D.		
74) 4-Nitroaniline	0.000		0	N.D.		
75) 4,6-Dinitro-o-cresol	0.000		0	N.D.		

Data Path : I:\8270\SV106\240304nlvi\
Data File : 10579-04.D
Acq On : 5 Mar 2024 6:30 am
Operator : SV106:ljg
Sample : L2410579-04,32,,gmr
Misc : WG1891342,WG1892048,ical20337
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Mar 05 13:25:12 2024
Quant Method : I:\8270\SV106\240304nlvi\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Mar 05 11:20:52 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv106\240304nlvi\ABN0304n.D
: 2 - I:\8270\sv106\240304nlvi\ADP0304n.D
: 3 - I:\8270\sv106\240304nlvi\AP90304n.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
76) NDPA/DPA	0.000		0	N.D.	d	
79) 4-Bromophenyl phenyl e...	0.000		0	N.D.		
86) Atrazine	0.000		0	N.D.		
90) Carbazole	0.000		0	N.D.		
91) Di-n-butylphthalate	0.000		0	N.D.	d	
96) Butyl benzyl phthalate	0.000		0	N.D.		
105) 3,3'-Dichlorobenzidine	0.000		0	N.D.		
107) Bis(2-ethylhexyl)phtha...	0.000		0	N.D.	d	
108) Di-n-octylphthalate	0.000		0	N.D.	d	

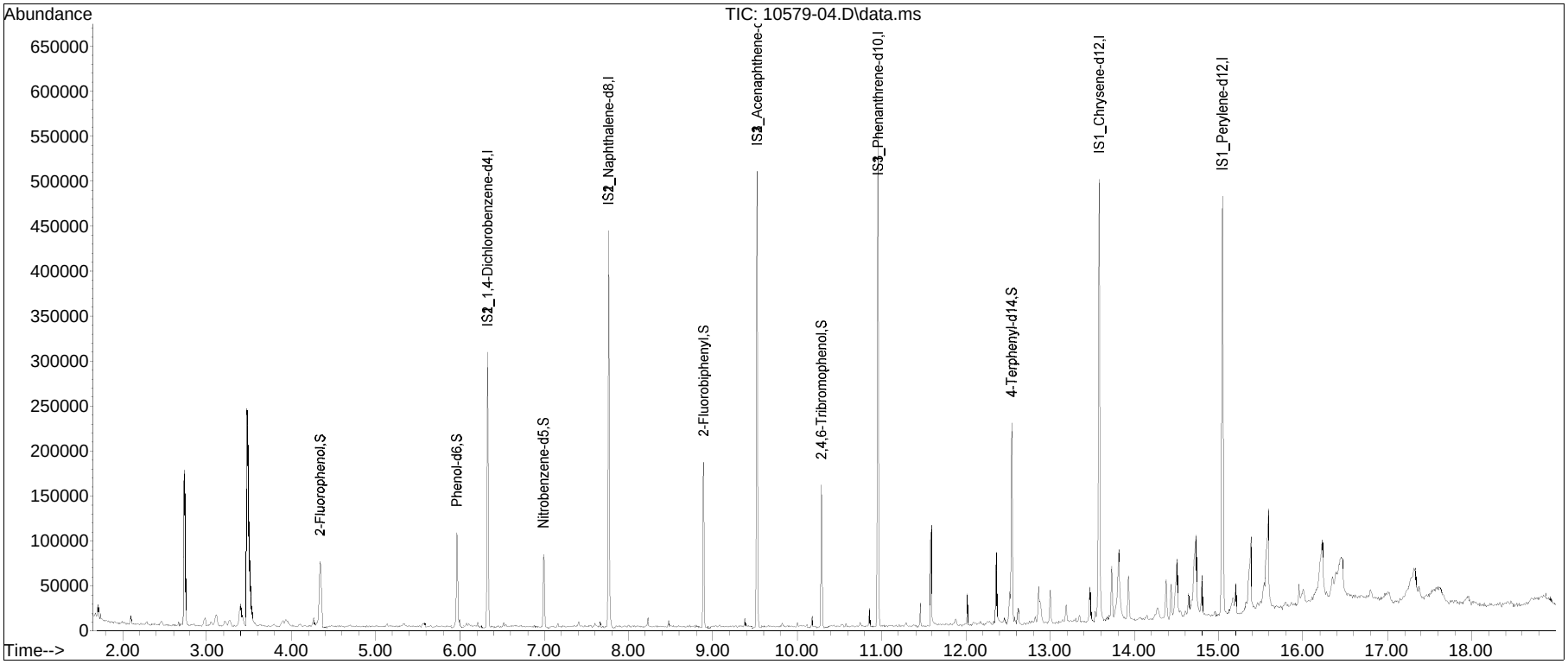
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240304nlvi\
Data File : 10579-04.D
Acq On : 5 Mar 2024 6:30 am
Operator : SV106:ljg
Sample : L2410579-04,32,,gmr
Misc : WG1891342,WG1892048,ical20337
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Mar 05 13:25:12 2024
Quant Method : I:\8270\SV106\240304nlvi\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Mar 05 11:20:52 2024
Response via : Initial Calibration

Sub List : 8270TCL_combo_REV1 - TCL/CT/MAP90304n.D•



Manual Integration Report

Data Path	: I:\8270\SV106\240304nlvi\	QMethod	: FS230902SV106.m
Data File	: 10579-04.D	Operator	: SV106:ljg
Date Inj'd	: 3/5/2024 6:30 am	Instrument	: SV 106
Sample	: L2410579-04,32,,gmr	Quant Date	: 3/5/2024 11:22 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240304nlvi\
Data File : 10579-05.D
Acq On : 5 Mar 2024 6:54 am
Operator : SV106:ljg
Sample : L2410579-05,32,,gmr
Misc : WG1891342,WG1892048,ical20337
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Mar 05 13:26:22 2024
Quant Method : I:\8270\SV106\240304nlvi\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Mar 05 11:20:52 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv106\240304nlvi\ABN0304n.D
: 2 - I:\8270\sv106\240304nlvi\ADP0304n.D
: 3 - I:\8270\sv106\240304nlvi\AP90304n.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) IS1_1,4-Dichlorobenzen...	6.325	152	48839	4.000	ug/ml		0.00
Standard Area 1 = 44264			Recovery = 110.34%				
27) IS2_1,4-Dichlorobenzen...	6.325	152	48839	4.000	ug/ml		0.00
Standard Area 3 = 45624			Recovery = 107.05%				
34) IS1_Naphthalene-d8	7.760	136	177861	4.000	ug/ml	#	0.00
Standard Area 1 = 170941			Recovery = 104.05%				
54) IS2_Naphthalene-d8	7.760	136	177861	4.000	ug/ml	#	0.00
Standard Area 3 = 165553			Recovery = 107.43%				
62) IS1_Acenaphthene-d10	9.525	164	107065	4.000	ug/ml		0.00
Standard Area 1 = 107442			Recovery = 99.65%				
82) IS2_Acenaphthene-d10	9.525	164	107065	4.000	ug/ml		0.00
Standard Area 3 = 100303			Recovery = 106.74%				
85) IS3_Acenaphthene-d10	9.525	164	107065	4.000	ug/ml		0.00
Standard Area 2 = 98087			Recovery = 109.15%				
87) IS1_Phenanthrene-d10	10.960	188	197316	4.000	ug/ml		0.00
Standard Area 1 = 227092			Recovery = 86.89%				
99) IS3_Phenanthrene-d10	10.960	188	197316	4.000	ug/ml		0.00
Standard Area 2 = 217156			Recovery = 90.86%				
103) IS1_Chrysene-d12	13.583	240	152821	4.000	ug/ml		0.00
Standard Area 1 = 207444			Recovery = 73.67%				
112) IS1_Perylene-d12	15.042	264	178638	4.000	ug/ml		0.00
Standard Area 1 = 227846			Recovery = 78.40%				
System Monitoring Compounds							
4) 2-Fluorophenol	4.343	112	34829	2.557	ug/ml		0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 51.14%				
7) Phenol-d6	5.960	99	37142	2.117	ug/ml		0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 42.34%				
19) Nitrobenzene-d5	6.990	82	25937	1.630	ug/ml		0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 65.20%				
45) 2-Fluorobiphenyl	8.889	172	57670	1.699	ug/ml		0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 67.96%				
78) 2,4,6-Tribromophenol	10.295	330	13962	2.842	ug/ml		0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 56.84%				
95) 4-Terphenyl-d14	12.542	244	76780	1.774	ug/ml		0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 70.96%				

Data Path : I:\8270\SV106\240304nlvi\
Data File : 10579-05.D
Acq On : 5 Mar 2024 6:54 am
Operator : SV106:ljg
Sample : L2410579-05,32,,gmr
Misc : WG1891342,WG1892048,ical20337
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Mar 05 13:26:22 2024
Quant Method : I:\8270\SV106\240304nlvi\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Mar 05 11:20:52 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv106\240304nlvi\ABN0304n.D
: 2 - I:\8270\sv106\240304nlvi\ADP0304n.D
: 3 - I:\8270\sv106\240304nlvi\AP90304n.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Target Compounds						Qvalue
6) 2-Chlorophenol	0.000		0	N.D.		
8) Phenol	0.000		0	N.D.		
9) Bis(2-chloroethyl)ether	0.000		0	N.D.		
14) Bis(2-chloroisopropyl)...	0.000		0	N.D.		
15) 2-Methylphenol	0.000		0	N.D.		
17) n-Nitrosodi-n-propylamine	0.000		0	N.D.	d	
18) 3-Methylphenol/4-Methy...	0.000		0	N.D.		
20) Nitrobenzene	0.000		0	N.D.		
21) Isophorone	0.000		0	N.D.		
22) 2-Nitrophenol	0.000		0	N.D.		
23) 2,4-Dimethylphenol	0.000		0	N.D.		
24) Bis(2-chloroethoxy)met...	0.000		0	N.D.		
25) 2,4-Dichlorophenol	0.000		0	N.D.		
28) Benzaldehyde	0.000		0	N.D.		
29) Acetophenone	0.000		0	N.D.		
37) 4-Chloroaniline	0.000		0	N.D.		
39) p-Chloro-m-cresol	0.000		0	N.D.		
42) Hexachlorocyclopentadiene	0.000		0	N.D.		
43) 2,4,6-Trichlorophenol	0.000		0	N.D.		
44) 2,4,5-Trichlorophenol	0.000		0	N.D.		
47) 2-Nitroaniline	0.000		0	N.D.		
50) Dimethyl phthalate	0.000		0	N.D.	d	
52) 2,6-Dinitrotoluene	0.000		0	N.D.	d	
59) Caprolactam	0.000		0	N.D.		
60) 1,2,4,5-Tetrachloroben...	0.000		0	N.D.		
61) Biphenyl	0.000		0	N.D.		
63) 3-Nitroaniline	0.000		0	N.D.		
65) 2,4-Dinitrophenol	0.000		0	N.D.		
66) Dibenzofuran	0.000		0	N.D.	d	
67) 2,4-Dinitrotoluene	0.000		0	N.D.	d	
68) 4-Nitrophenol	0.000		0	N.D.		
70) 2,3,4,6-Tetrachlorophenol	0.000		0	N.D.		
71) Diethyl phthalate	0.000		0	N.D.	d	
73) 4-Chlorophenyl phenyl ...	0.000		0	N.D.		
74) 4-Nitroaniline	0.000		0	N.D.		
75) 4,6-Dinitro-o-cresol	0.000		0	N.D.		

Data Path : I:\8270\SV106\240304nlvi\
Data File : 10579-05.D
Acq On : 5 Mar 2024 6:54 am
Operator : SV106:ljg
Sample : L2410579-05,32,,gmr
Misc : WG1891342,WG1892048,ical20337
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Mar 05 13:26:22 2024
Quant Method : I:\8270\SV106\240304nlvi\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Mar 05 11:20:52 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv106\240304nlvi\ABN0304n.D
: 2 - I:\8270\sv106\240304nlvi\ADP0304n.D
: 3 - I:\8270\sv106\240304nlvi\AP90304n.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
76) NDPA/DPA	0.000		0	N.D.	d	
79) 4-Bromophenyl phenyl e...	0.000		0	N.D.		
86) Atrazine	0.000		0	N.D.		
90) Carbazole	0.000		0	N.D.		
91) Di-n-butylphthalate	0.000		0	N.D.	d	
96) Butyl benzyl phthalate	0.000		0	N.D.		
105) 3,3'-Dichlorobenzidine	0.000		0	N.D.		
107) Bis(2-ethylhexyl)phtha...	0.000		0	N.D.	d	
108) Di-n-octylphthalate	0.000		0	N.D.	d	

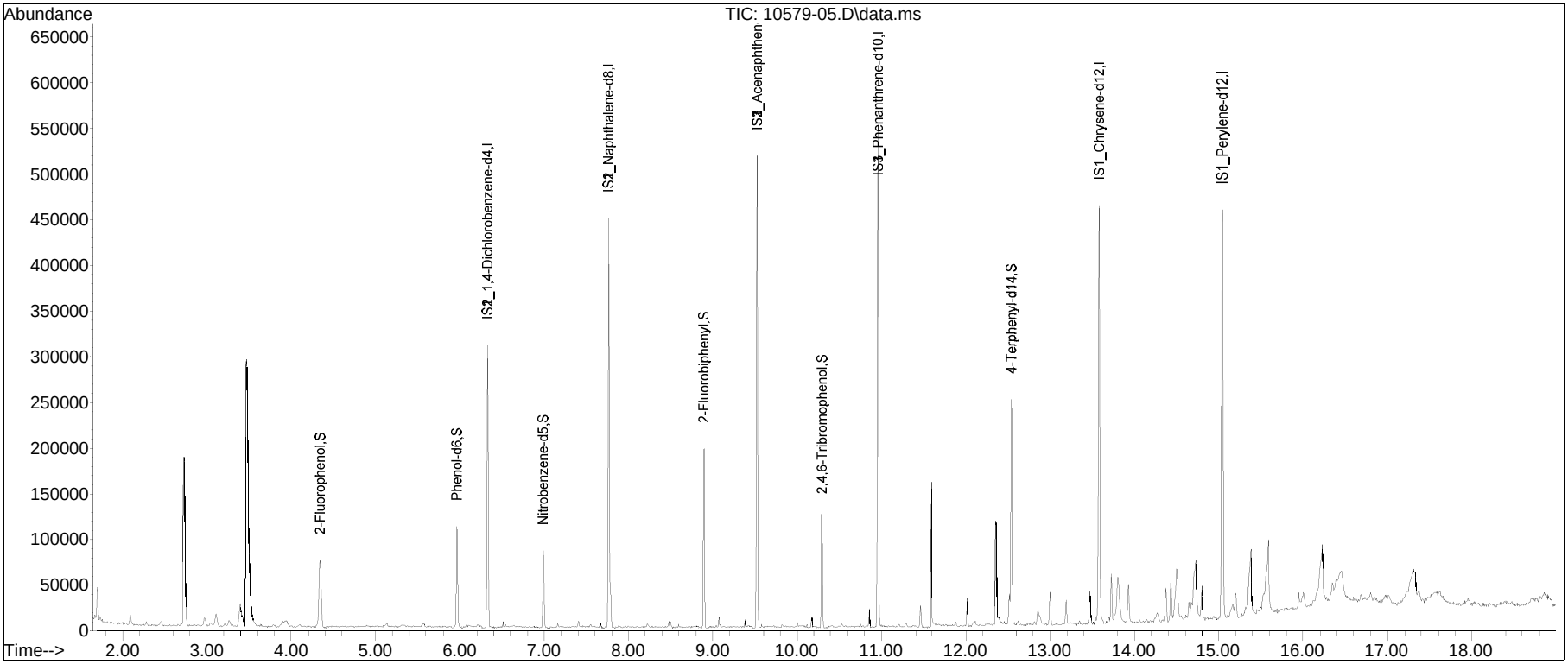
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240304nlvi\
Data File : 10579-05.D
Acq On : 5 Mar 2024 6:54 am
Operator : SV106:ljg
Sample : L2410579-05,32,,gmr
Misc : WG1891342,WG1892048,ical20337
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Mar 05 13:26:22 2024
Quant Method : I:\8270\SV106\240304nlvi\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Mar 05 11:20:52 2024
Response via : Initial Calibration

Sub List : 8270TCL_combo_REV1 - TCL/CT/MAP90304n.D•



Manual Integration Report

Data Path	: I:\8270\SV106\240304nlvi\	QMethod	: FS230902SV106.m
Data File	: 10579-05.D	Operator	: SV106:ljg
Date Inj'd	: 3/5/2024 6:54 am	Instrument	: SV 106
Sample	: L2410579-05,32,,gmr	Quant Date	: 3/5/2024 11:22 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240304nlvi\
Data File : 10579-08.D
Acq On : 5 Mar 2024 7:18 am
Operator : SV106:ljg
Sample : L2410579-08,32,,gmr
Misc : WG1891342,WG1892048,ical20337
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Mar 05 13:27:47 2024
Quant Method : I:\8270\SV106\240304nlvi\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Mar 05 11:20:52 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv106\240304nlvi\ABN0304n.D
: 2 - I:\8270\sv106\240304nlvi\ADP0304n.D
: 3 - I:\8270\sv106\240304nlvi\AP90304n.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) IS1_1,4-Dichlorobenzen...	6.325	152	44852	4.000	ug/ml		0.00
Standard Area 1 = 44264			Recovery = 101.33%				
27) IS2_1,4-Dichlorobenzen...	6.325	152	44852	4.000	ug/ml		0.00
Standard Area 3 = 45624			Recovery = 98.31%				
34) IS1_Naphthalene-d8	7.760	136	167820	4.000	ug/ml	#	0.00
Standard Area 1 = 170941			Recovery = 98.17%				
54) IS2_Naphthalene-d8	7.760	136	167820	4.000	ug/ml	#	0.00
Standard Area 3 = 165553			Recovery = 101.37%				
62) IS1_Acenaphthene-d10	9.524	164	98152	4.000	ug/ml		0.00
Standard Area 1 = 107442			Recovery = 91.35%				
82) IS2_Acenaphthene-d10	9.524	164	98152	4.000	ug/ml		0.00
Standard Area 3 = 100303			Recovery = 97.86%				
85) IS3_Acenaphthene-d10	9.524	164	98152	4.000	ug/ml		0.00
Standard Area 2 = 98087			Recovery = 100.07%				
87) IS1_Phenanthrene-d10	10.960	188	192179	4.000	ug/ml		0.00
Standard Area 1 = 227092			Recovery = 84.63%				
99) IS3_Phenanthrene-d10	10.960	188	192179	4.000	ug/ml		0.00
Standard Area 2 = 217156			Recovery = 88.50%				
103) IS1_Chrysene-d12	13.583	240	148461	4.000	ug/ml		0.00
Standard Area 1 = 207444			Recovery = 71.57%				
112) IS1_Perylene-d12	15.042	264	175174	4.000	ug/ml		0.00
Standard Area 1 = 227846			Recovery = 76.88%				
System Monitoring Compounds							
4) 2-Fluorophenol	4.342	112	33089	2.645	ug/ml		0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 52.90%				
7) Phenol-d6	5.966	99	36144	2.243	ug/ml		0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 44.86%				
19) Nitrobenzene-d5	6.995	82	25172	1.723	ug/ml		0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 68.92%				
45) 2-Fluorobiphenyl	8.889	172	53619	1.674	ug/ml		0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 66.96%				
78) 2,4,6-Tribromophenol	10.295	330	15500	3.442	ug/ml		0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 68.84%				
95) 4-Terphenyl-d14	12.542	244	69370	1.646	ug/ml		0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 65.84%				

Data Path : I:\8270\SV106\240304nlvi\
Data File : 10579-08.D
Acq On : 5 Mar 2024 7:18 am
Operator : SV106:ljg
Sample : L2410579-08,32,,gmr
Misc : WG1891342,WG1892048,ical20337
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Mar 05 13:27:47 2024
Quant Method : I:\8270\SV106\240304nlvi\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Mar 05 11:20:52 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv106\240304nlvi\ABN0304n.D
: 2 - I:\8270\sv106\240304nlvi\ADP0304n.D
: 3 - I:\8270\sv106\240304nlvi\AP90304n.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Target Compounds						Qvalue
6) 2-Chlorophenol	0.000		0	N.D.		
8) Phenol	0.000		0	N.D.		
9) Bis(2-chloroethyl)ether	0.000		0	N.D.		
14) Bis(2-chloroisopropyl)...	0.000		0	N.D.		
15) 2-Methylphenol	0.000		0	N.D.		
17) n-Nitrosodi-n-propylamine	0.000		0	N.D.	d	
18) 3-Methylphenol/4-Methy...	0.000		0	N.D.		
20) Nitrobenzene	0.000		0	N.D.		
21) Isophorone	0.000		0	N.D.		
22) 2-Nitrophenol	0.000		0	N.D.		
23) 2,4-Dimethylphenol	0.000		0	N.D.		
24) Bis(2-chloroethoxy)met...	0.000		0	N.D.		
25) 2,4-Dichlorophenol	0.000		0	N.D.		
28) Benzaldehyde	0.000		0	N.D.		
29) Acetophenone	0.000		0	N.D.		
37) 4-Chloroaniline	0.000		0	N.D.		
39) p-Chloro-m-cresol	0.000		0	N.D.		
42) Hexachlorocyclopentadiene	0.000		0	N.D.		
43) 2,4,6-Trichlorophenol	0.000		0	N.D.		
44) 2,4,5-Trichlorophenol	0.000		0	N.D.		
47) 2-Nitroaniline	0.000		0	N.D.		
50) Dimethyl phthalate	0.000		0	N.D.	d	
52) 2,6-Dinitrotoluene	0.000		0	N.D.	d	
59) Caprolactam	0.000		0	N.D.	d	
60) 1,2,4,5-Tetrachloroben...	0.000		0	N.D.		
61) Biphenyl	0.000		0	N.D.		
63) 3-Nitroaniline	0.000		0	N.D.		
65) 2,4-Dinitrophenol	0.000		0	N.D.		
66) Dibenzofuran	0.000		0	N.D.	d	
67) 2,4-Dinitrotoluene	0.000		0	N.D.	d	
68) 4-Nitrophenol	0.000		0	N.D.		
70) 2,3,4,6-Tetrachlorophenol	0.000		0	N.D.		
71) Diethyl phthalate	0.000		0	N.D.		
73) 4-Chlorophenyl phenyl ...	0.000		0	N.D.		
74) 4-Nitroaniline	0.000		0	N.D.		
75) 4,6-Dinitro-o-cresol	0.000		0	N.D.		

Data Path : I:\8270\SV106\240304nlvi\
Data File : 10579-08.D
Acq On : 5 Mar 2024 7:18 am
Operator : SV106:ljg
Sample : L2410579-08,32,,gmr
Misc : WG1891342,WG1892048,ical20337
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Mar 05 13:27:47 2024
Quant Method : I:\8270\SV106\240304nlvi\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Mar 05 11:20:52 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv106\240304nlvi\ABN0304n.D
: 2 - I:\8270\sv106\240304nlvi\ADP0304n.D
: 3 - I:\8270\sv106\240304nlvi\AP90304n.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
76) NDPA/DPA	0.000		0	N.D.	d	
79) 4-Bromophenyl phenyl e...	0.000		0	N.D.		
86) Atrazine	0.000		0	N.D.		
90) Carbazole	0.000		0	N.D.		
91) Di-n-butylphthalate	0.000		0	N.D.	d	
96) Butyl benzyl phthalate	0.000		0	N.D.		
105) 3,3'-Dichlorobenzidine	0.000		0	N.D.		
107) Bis(2-ethylhexyl)phtha...	0.000		0	N.D.	d	
108) Di-n-octylphthalate	0.000		0	N.D.	d	

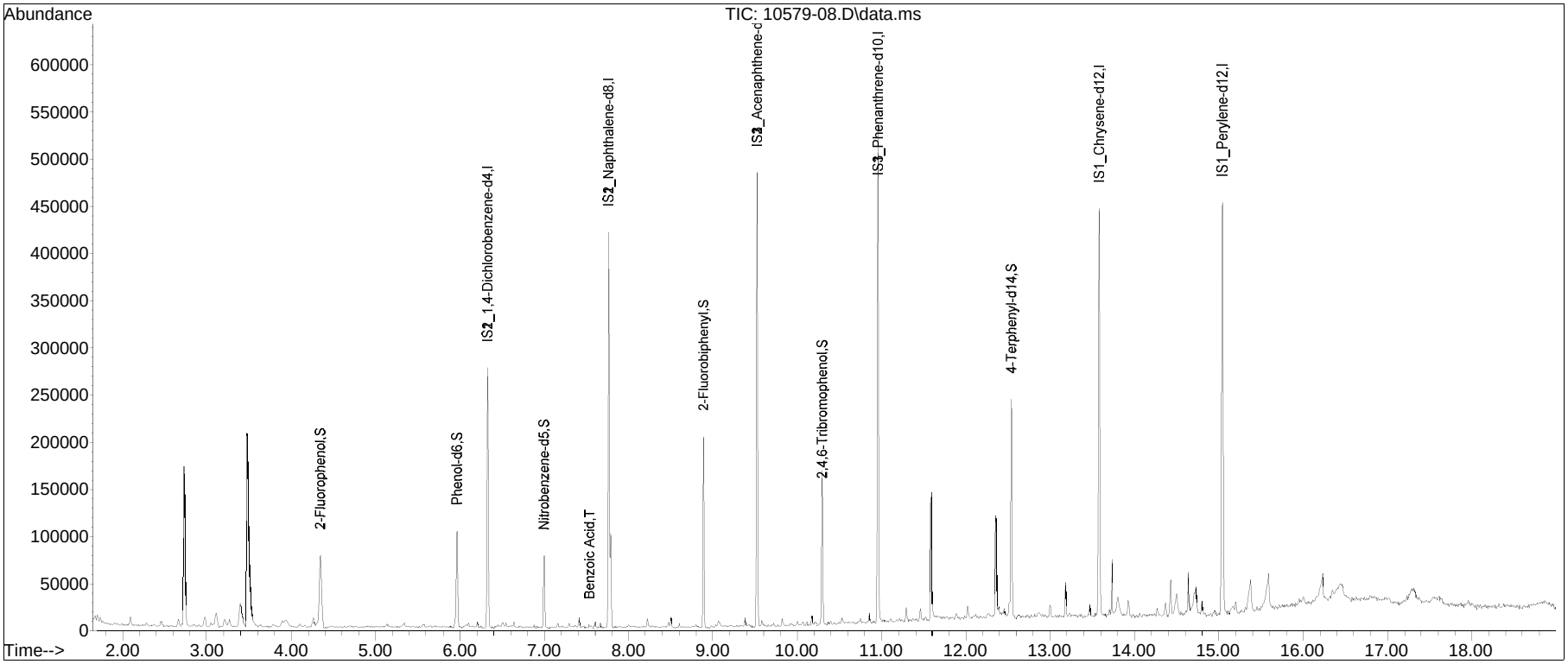
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240304nlvi\
Data File : 10579-08.D
Acq On : 5 Mar 2024 7:18 am
Operator : SV106:ljg
Sample : L2410579-08,32,,gmr
Misc : WG1891342,WG1892048,ical20337
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Mar 05 13:27:47 2024
Quant Method : I:\8270\SV106\240304nlvi\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Mar 05 11:20:52 2024
Response via : Initial Calibration

Sub List : 8270TCL_combo_REV1 - TCL/CT/MAP90304n.D•



Manual Integration Report

Data Path	: I:\8270\SV106\240304nlvi\	QMethod	: FS230902SV106.m
Data File	: 10579-08.D	Operator	: SV106:ljg
Date Inj'd	: 3/5/2024 7:18 am	Instrument	: SV 106
Sample	: L2410579-08,32,,gmr	Quant Date	: 3/5/2024 11:22 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240304nlvi\
Data File : 10579-10.D
Acq On : 5 Mar 2024 8:30 am
Operator : SV106:ljg
Sample : L2410579-10,32,,gmr
Misc : WG1891342,WG1892048,ical20337
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Mar 05 13:31:10 2024
Quant Method : I:\8270\SV106\240304nlvi\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Mar 05 11:20:52 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv106\240304nlvi\ABN0304n.D
: 2 - I:\8270\sv106\240304nlvi\ADP0304n.D
: 3 - I:\8270\sv106\240304nlvi\AP90304n.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	6.325	152	41920	4.000	ug/ml	0.00
Standard Area 1 = 44264			Recovery = 94.70%			
27) IS2_1,4-Dichlorobenzen...	6.325	152	41920	4.000	ug/ml	0.00
Standard Area 3 = 45624			Recovery = 91.88%			
34) IS1_Naphthalene-d8	7.760	136	156467	4.000	ug/ml	0.00
Standard Area 1 = 170941			Recovery = 91.53%			
54) IS2_Naphthalene-d8	7.760	136	156467	4.000	ug/ml	0.00
Standard Area 3 = 165553			Recovery = 94.51%			
62) IS1_Acenaphthene-d10	9.525	164	91715	4.000	ug/ml	0.00
Standard Area 1 = 107442			Recovery = 85.36%			
82) IS2_Acenaphthene-d10	9.525	164	91715	4.000	ug/ml	0.00
Standard Area 3 = 100303			Recovery = 91.44%			
85) IS3_Acenaphthene-d10	9.525	164	91715	4.000	ug/ml	0.00
Standard Area 2 = 98087			Recovery = 93.50%			
87) IS1_Phenanthrene-d10	10.960	188	179803	4.000	ug/ml	0.00
Standard Area 1 = 227092			Recovery = 79.18%			
99) IS3_Phenanthrene-d10	10.960	188	179803	4.000	ug/ml	0.00
Standard Area 2 = 217156			Recovery = 82.80%			
103) IS1_Chrysene-d12	13.577	240	138148	4.000	ug/ml	0.00
Standard Area 1 = 207444			Recovery = 66.60%			
112) IS1_Perylene-d12	15.036	264	160626	4.000	ug/ml	0.00
Standard Area 1 = 227846			Recovery = 70.50%			
System Monitoring Compounds						
4) 2-Fluorophenol	4.343	112	34774	2.974	ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 59.48%			
7) Phenol-d6	5.966	99	38702	2.570	ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 51.40%			
19) Nitrobenzene-d5	6.989	82	25224	1.847	ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 73.88%			
45) 2-Fluorobiphenyl	8.889	172	56870	1.904	ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 76.16%			
78) 2,4,6-Tribromophenol	10.295	330	13664	3.247	ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 64.94%			
95) 4-Terphenyl-d14	12.536	244	68905	1.747	ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 69.88%			

Data Path : I:\8270\SV106\240304nlvi\
Data File : 10579-10.D
Acq On : 5 Mar 2024 8:30 am
Operator : SV106:ljg
Sample : L2410579-10,32,,gmr
Misc : WG1891342,WG1892048,ical20337
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Mar 05 13:31:10 2024
Quant Method : I:\8270\SV106\240304nlvi\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Mar 05 11:20:52 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv106\240304nlvi\ABN0304n.D
: 2 - I:\8270\sv106\240304nlvi\ADP0304n.D
: 3 - I:\8270\sv106\240304nlvi\AP90304n.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Target Compounds						Qvalue
6) 2-Chlorophenol	0.000		0	N.D.		
8) Phenol	0.000		0	N.D.		
9) Bis(2-chloroethyl)ether	0.000		0	N.D.	d	
14) Bis(2-chloroisopropyl)...	0.000		0	N.D.		
15) 2-Methylphenol	0.000		0	N.D.		
17) n-Nitrosodi-n-propylamine	0.000		0	N.D.	d	
18) 3-Methylphenol/4-Methy...	0.000		0	N.D.		
20) Nitrobenzene	0.000		0	N.D.		
21) Isophorone	0.000		0	N.D.		
22) 2-Nitrophenol	0.000		0	N.D.		
23) 2,4-Dimethylphenol	0.000		0	N.D.		
24) Bis(2-chloroethoxy)met...	0.000		0	N.D.		
25) 2,4-Dichlorophenol	0.000		0	N.D.		
28) Benzaldehyde	0.000		0	N.D.		
29) Acetophenone	0.000		0	N.D.		
37) 4-Chloroaniline	0.000		0	N.D.		
39) p-Chloro-m-cresol	0.000		0	N.D.		
42) Hexachlorocyclopentadiene	0.000		0	N.D.		
43) 2,4,6-Trichlorophenol	0.000		0	N.D.		
44) 2,4,5-Trichlorophenol	0.000		0	N.D.		
47) 2-Nitroaniline	0.000		0	N.D.		
50) Dimethyl phthalate	0.000		0	N.D.	d	
52) 2,6-Dinitrotoluene	0.000		0	N.D.	d	
59) Caprolactam	0.000		0	N.D.		
60) 1,2,4,5-Tetrachloroben...	0.000		0	N.D.		
61) Biphenyl	0.000		0	N.D.		
63) 3-Nitroaniline	0.000		0	N.D.		
65) 2,4-Dinitrophenol	0.000		0	N.D.		
66) Dibenzofuran	0.000		0	N.D.		
67) 2,4-Dinitrotoluene	0.000		0	N.D.	d	
68) 4-Nitrophenol	0.000		0	N.D.		
70) 2,3,4,6-Tetrachlorophenol	0.000		0	N.D.		
71) Diethyl phthalate	0.000		0	N.D.		
73) 4-Chlorophenyl phenyl ...	0.000		0	N.D.		
74) 4-Nitroaniline	0.000		0	N.D.		
75) 4,6-Dinitro-o-cresol	0.000		0	N.D.		

Data Path : I:\8270\SV106\240304nlvi\
Data File : 10579-10.D
Acq On : 5 Mar 2024 8:30 am
Operator : SV106:ljg
Sample : L2410579-10,32,,gmr
Misc : WG1891342,WG1892048,ical20337
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Mar 05 13:31:10 2024
Quant Method : I:\8270\SV106\240304nlvi\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Mar 05 11:20:52 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv106\240304nlvi\ABN0304n.D
: 2 - I:\8270\sv106\240304nlvi\ADP0304n.D
: 3 - I:\8270\sv106\240304nlvi\AP90304n.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
76) NDPA/DPA	0.000		0	N.D.		
79) 4-Bromophenyl phenyl e...	0.000		0	N.D.		
86) Atrazine	0.000		0	N.D.		
90) Carbazole	0.000		0	N.D.		
91) Di-n-butylphthalate	0.000		0	N.D.	d	
96) Butyl benzyl phthalate	0.000		0	N.D.		
105) 3,3'-Dichlorobenzidine	0.000		0	N.D.		
107) Bis(2-ethylhexyl)phtha...	0.000		0	N.D.	d	
108) Di-n-octylphthalate	0.000		0	N.D.	d	

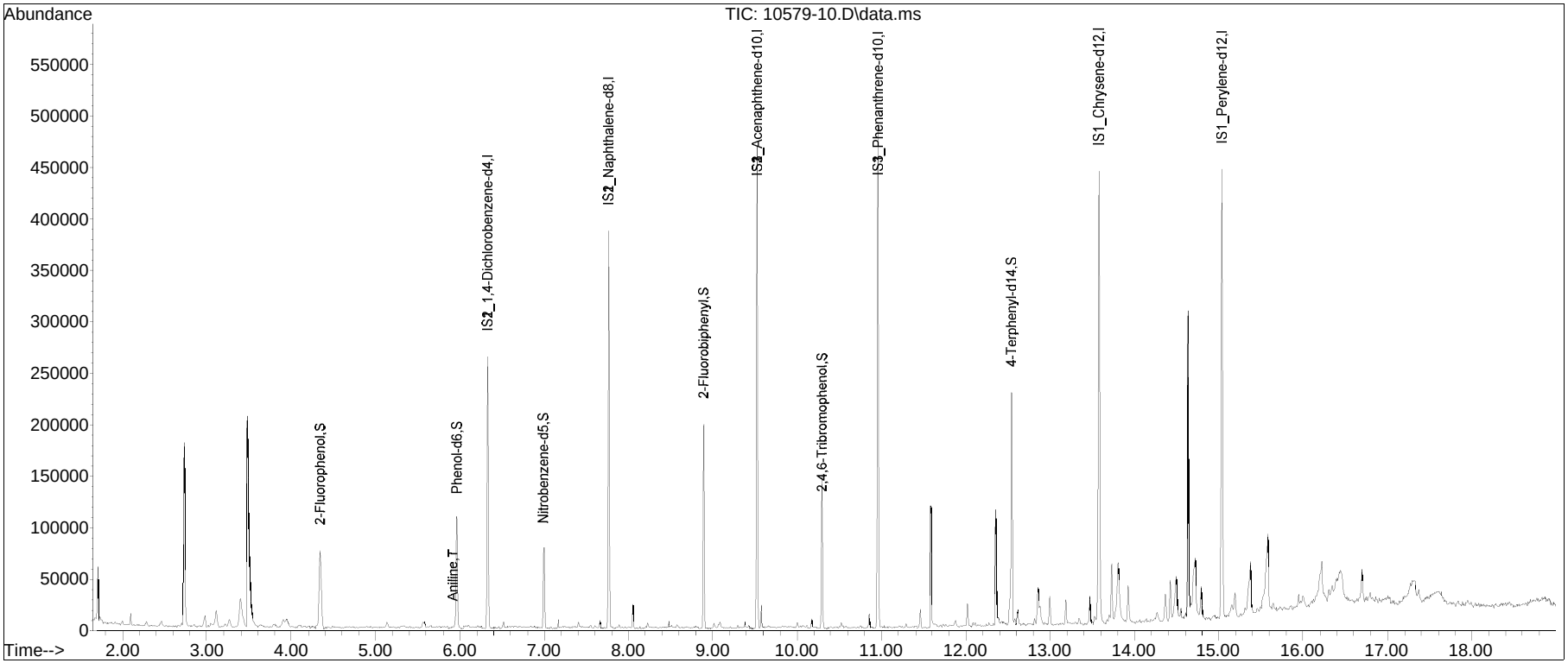
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240304nlvi\
Data File : 10579-10.D
Acq On : 5 Mar 2024 8:30 am
Operator : SV106:ljg
Sample : L2410579-10,32,,gmr
Misc : WG1891342,WG1892048,ical20337
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Mar 05 13:31:10 2024
Quant Method : I:\8270\SV106\240304nlvi\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Mar 05 11:20:52 2024
Response via : Initial Calibration

Sub List : 8270TCL_combo_REV1 - TCL/CT/MAP90304n.D•



Manual Integration Report

Data Path	: I:\8270\SV106\240304nlvi\	QMethod	: FS230902SV106.m
Data File	: 10579-10.D	Operator	: SV106:ljg
Date Inj'd	: 3/5/2024 8:30 am	Instrument	: SV 106
Sample	: L2410579-10,32,,gmr	Quant Date	: 3/5/2024 11:22 am

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

Semivolatiles Standards Data

Initial Calibration

Initial Calibration Summary
Form 6
Semivolatiles

Client	**: Alpha Geoscience**	**Lab Number**	**: L2410579**
Project Name	**: HUNTINGTON READY MIX**	**Project Number**	**: 20116**
Instrument ID	**: SV106**	**Ical Ref**	**: ICAL20337**
Calibration dates	**: 09/02/23 12:13 09/03/23 00:52**		

Calibration Files
L1 =AP9L1.D L2 =AP9L2.D L3 =AP9L3.D L4 =AP9L4.D L5 =AP9L5.D L6 =AP9L6.D L7 =AP9L7.D
L8 =AP9L8.D L9 =AP9L9.D L10 =AP9L10.D

		Compound	L1	L2	L3	L4	L5	L6	L7	L8	L9	L10	Avg	%RSD
1)	I	IS1_1,4-Dichlorobenzene-d4	----------ISTD----------											
2)	t	N-Nitrosodimethylamine		0.648	0.703	0.681	0.660	0.622	0.719	0.685	0.676	0.702	0.677	4.47
3)	t	Pyridine	1.054	1.120	1.163	1.116	1.175	1.061	1.236	1.233	1.179	1.168	1.151	5.45
4)	S	2-Fluorophenol	1.088	1.096	1.126	1.083	1.108	0.995	1.181	1.182	1.146	1.151	1.116	4.99
5)	T	Aniline	1.838	1.833	1.964	1.902	1.868	1.720	2.000	1.918	1.903	1.985	1.893	4.42
6)	t	2-Chlorophenol	1.219	1.195	1.332	1.275	1.232	1.185	1.371	1.300	1.302	1.333	1.274	5.01
7)	S	Phenol-d6	1.324	1.450	1.447	1.418	1.415	1.329	1.552	1.459	1.466	1.513	1.437	4.96
8)	T	Phenol	1.574	1.402	1.560	1.504	1.542	1.373	1.603	1.551	1.523	1.579	1.521	5.01
9)	T	bis(2-Chloroethyl)ether	1.344	1.167	1.223	1.216	1.205	1.114	1.275	1.221	1.206	1.247	1.222	5.00
10)	T	1,3-Dichlorobenzene	1.513	1.406	1.544	1.452	1.452	1.343	1.510	1.469	1.451	1.468	1.461	3.91
11)	T	1,4-Dichlorobenzene	1.759	1.418	1.531	1.494	1.463	1.344	1.561	1.490	1.474	1.497	1.503	7.18
12)	T	1,2-Dichlorobenzene	1.543	1.424	1.464	1.456	1.374	1.288	1.496	1.422	1.403	1.441	1.431	4.84
13)	t	Benzyl alcohol	1.065	0.893	1.101	1.048	1.048	0.989	1.167	1.122	1.117	1.185	1.074	8.05
14)	T	bis(2-chloroisopropyl)ether	1.769	1.838	1.890	1.806	1.800	1.644	1.898	1.820	1.744	1.786	1.800	4.06
15)	T	2-Methylphenol	1.062	1.118	1.139	1.150	1.104	1.017	1.221	1.184	1.167	1.215	1.138	5.70
16)	T	Hexachloroethane	0.590	0.574	0.631	0.572	0.572	0.535	0.613	0.589	0.585	0.600	0.586	4.46
17)	T	n-Nitrosodi-n-propylamine	0.970	0.903	0.936	0.894	0.893	0.833	0.981	0.922	0.925	0.978	0.923	4.98
18)	T	3-Methylphenol/4-Methylphenol	1.065	1.100	1.213	1.221	1.177	1.092	1.292	1.238	1.227	1.309	1.193	7.02
19)	S	Nitrobenzene-d5	1.349	1.280	1.290	1.189	1.281	1.160	1.381	1.348	1.345	1.407	1.303	6.12
20)	T	Nitrobenzene	1.173	1.318	1.243	1.244	1.278	1.189	1.396	1.359	1.350	1.396	1.295	6.30
21)	T	Isophorone	2.439	2.405	2.498	2.425	2.467	2.235	2.627	2.531	2.491	2.660	2.478	4.81
22)	T	2-Nitrophenol	0.473	0.461	0.464	0.461	0.482	0.467	0.596	0.573	0.581	0.621	0.518	12.71
23)	T	2,4-Dimethylphenol	1.263	1.209	1.251	1.250	1.287	1.202	1.384	1.328	1.310	1.324	1.281	4.45
24)	T	bis(2-Chloroethoxy)methane	1.673	1.453	1.571	1.543	1.508	1.418	1.628	1.583	1.526	1.621	1.552	5.12
25)	T	2,4-Dichlorophenol	0.973	0.961	1.024	1.067	1.090	1.018	1.186	1.141	1.104	1.192	1.076	7.62
26)	T	1,2,4-Trichlorobenzene	1.228	1.215	1.287	1.261	1.240	1.103	1.291	1.244	1.212	1.268	1.235	4.36
27)	I	IS2_1,4-Dichlorobenzene-d4	----------ISTD----------											
28)	T	Benzaldehyde			1.071	0.918	0.885	1.299	0.926	0.801	0.740	0.787	0.928	19.58
29)	T	Acetophenone	2.251	1.920	1.957	1.826	1.903	2.587	1.898	1.810	1.883	1.906	1.994	12.10
30)	T	m-Toluidine			1.492	1.442	1.434	2.182	1.574	1.433	1.382	1.459	1.550	16.86
31)	T	2-Chloroaniline	1.889	1.484	1.696	1.521	1.557	2.203	1.625	1.546	1.579	1.606	1.670	13.12
32)	I	IS3_1,4-Dichlorobenzene-d4	----------ISTD----------											
33)	T	n-Decane	1.354	1.422	1.378	1.307	1.338	1.336	1.316	1.338	1.318	1.363	1.347	2.55
34)	I	IS1_Naphthalene-d8	----------ISTD----------											
35)	T	Naphthalene	1.046	0.979	1.049	1.016	0.962	0.894	1.038	1.026	1.019	1.055	1.008	4.98
36)	T	Benzoic Acid					0.154	0.161	0.230	0.246	0.255	0.273	*L	0.9982

Initial Calibration Summary
Form 6
Semivolatiles

Client	**: Alpha Geoscience**	**Lab Number**	**: L2410579**
Project Name	**: HUNTINGTON READY MIX**	**Project Number**	**: 20116**
Instrument ID	**: SV106**	**Ical Ref**	**: ICAL20337**
Calibration dates	**: 09/02/23 12:13 09/03/23 00:52**		

Calibration Files
L1 =AP9L1.D L2 =AP9L2.D L3 =AP9L3.D L4 =AP9L4.D L5 =AP9L5.D L6 =AP9L6.D L7 =AP9L7.D
L8 =AP9L8.D L9 =AP9L9.D L10 =AP9L10.D

		Compound	L1	L2	L3	L4	L5	L6	L7	L8	L9	L10	Avg	%RSD	
37)	T	4-Chloroaniline	0.147	0.112	0.132	0.134	0.127	0.119	0.142	0.136	0.133	0.138	0.132	7.98	
38)	T	Hexachlorobutadiene	0.233	0.210	0.211	0.200	0.208	0.180	0.206	0.206	0.199	0.203	0.206	6.37	
39)	T	p-Chloro-m-cresol	0.257	0.259	0.292	0.275	0.293	0.268	0.314	0.315	0.312	0.330	0.291	8.87	
40)	T	2-Methylnaphthalene	0.631	0.635	0.683	0.650	0.622	0.571	0.661	0.653	0.641	0.673	0.642	4.86	
41)	T	1-Methylnaphthalene	0.217	0.243	0.253	0.253	0.232	0.218	0.251	0.249	0.240	0.251	0.241	5.70	
42)	T	Hexachlorocyclopentadiene	0.212	0.203	0.213	0.219	0.221	0.195	0.234	0.230	0.232	0.234	0.219	6.17	
43)	T	2,4,6-Trichlorophenol	0.195	0.184	0.205	0.202	0.204	0.182	0.227	0.222	0.223	0.242	0.209	9.27	
44)	T	2,4,5-Trichlorophenol	0.230	0.191	0.222	0.220	0.220	0.196	0.243	0.241	0.240	0.241	0.224	8.26	
45)	S	2-Fluorobiphenyl	0.835	0.731	0.799	0.785	0.737	0.676	0.772	0.771	0.748	0.781	0.764	5.70	
46)	T	2-Chloronaphthalene	0.685	0.640	0.719	0.682	0.665	0.597	0.684	0.674	0.658	0.687	0.669	4.89	
47)	T	2-Nitroaniline			0.158	0.153	0.162	0.156	0.192	0.195	0.197	0.208		*L 0.9975	
48)	T	1,4-Dinitrobenzene				0.069	0.069	0.061	0.083	0.085	0.089	0.096		*L 0.9958	
49)	T	1,3-Dinitrobenzene				0.080	0.076	0.076	0.094	0.099	0.107	0.112		*L 0.9969	
50)	T	Dimethyl phthalate	0.828	0.719	0.845	0.777	0.777	0.710	0.808	0.810	0.779	0.821	0.787	5.69	
51)	T	Acenaphthylene	1.110	1.006	1.125	1.073	1.054	0.948	1.112	1.118	1.083	1.140	1.077	5.59	
52)	T	2,6-Dinitrotoluene			0.129	0.136	0.133	0.126	0.159	0.161	0.159	0.167		*L 0.9978	
53)	T	1,2-Dinitrobenzene				0.055	0.058	0.056	0.069	0.069	0.067	0.070	0.063	10.66	
54)	I	IS2_Naphthalene-d8	----------ISTD----------												
55)	T	a-Terpineol	0.327	0.276	0.274	0.267	0.267	0.376	0.273	0.268	0.284	0.275	0.289	12.23	
56)	T	3-Chloroaniline	0.150	0.143	0.153	0.145	0.145	0.202	0.148	0.139	0.140	0.138	0.150	12.50	
57)	T	2,6-Dichlorophenol	0.269	0.249	0.244	0.254	0.263	0.378	0.272	0.270	0.285	0.282	0.277	13.72	
58)	T	1-chloro-2-nitrobenzene	0.125	0.121	0.128	0.116	0.115	0.174	0.128	0.130	0.139	0.135	0.131	13.00	
59)	T	Caprolactam	0.122	0.140	0.132	0.129	0.135	0.199	0.150	0.148	0.160	0.152	0.147	14.87	
60)	T	1,2,4,5-Tetrachlorobenzene	0.383	0.370	0.337	0.334	0.319	0.446	0.323	0.316	0.332	0.321	0.348	11.76	
61)	T	Biphenyl	0.951	0.858	0.839	0.798	0.794	1.117	0.800	0.785	0.813	0.802	0.856	12.19	
62)	I	IS1_Acenaphthene-d10	----------ISTD----------												
63)	T	3-Nitroaniline		0.218	0.276	0.261	0.272	0.262	0.330	0.312	0.313	0.331	0.286	13.35	
64)	T	Acenaphthene	1.245	1.152	1.174	1.130	1.082	0.999	1.158	1.107	1.095	1.164	1.131	5.82	
65)	T	2,4-Dinitrophenol				0.094	0.110	0.108	0.137	0.138	0.155	0.165		*L 0.9965	
66)	T	Dibenzofuran	1.692	1.754	1.791	1.672	1.656	1.509	1.750	1.672	1.669	1.738	1.690	4.63	
67)	T	2,4-Dinitrotoluene			0.309	0.306	0.304	0.304	0.380	0.371	0.389	0.411		*L 0.9969	
68)	T	4-Nitrophenol			0.234	0.230	0.243	0.226	0.283	0.277	0.285	0.309		*L 0.9963	
69)	T	2,3,5,6-Tetrachlorophenol	0.295	0.260	0.324	0.326	0.326	0.298	0.359	0.347	0.349	0.367	0.325	10.18	
70)	T	2,3,4,6-Tetrachlorophenol	0.349	0.297	0.356	0.307	0.333	0.306	0.369	0.347	0.344	0.363	0.337	7.51	
71)	T	Diethyl phthalate	1.394	1.403	1.479	1.414	1.390	1.303	1.459	1.395	1.423	1.488	1.415	3.78	
72)	T	Fluorene	1.342	1.330	1.403	1.298	1.306	1.208	1.405	1.344	1.329	1.388	1.336	4.38	

Initial Calibration Summary
Form 6
Semivolatiles

Client	**: Alpha Geoscience**	**Lab Number**	**: L2410579**
Project Name	**: HUNTINGTON READY MIX**	**Project Number**	**: 20116**
Instrument ID	**: SV106**	**Ical Ref**	**: ICAL20337**
Calibration dates	**: 09/02/23 12:13 09/03/23 00:52**		

Calibration Files
L1 =AP9L1.D L2 =AP9L2.D L3 =AP9L3.D L4 =AP9L4.D L5 =AP9L5.D L6 =AP9L6.D L7 =AP9L7.D
L8 =AP9L8.D L9 =AP9L9.D L10 =AP9L10.D

		Compound	L1	L2	L3	L4	L5	L6	L7	L8	L9	L10	Avg	%RSD	
73)	T	4-Chlorophenyl-phenylether	0.686	0.675	0.667	0.641	0.614	0.566	0.645	0.624	0.610	0.646	0.637	5.59	
74)	T	4-Nitroaniline	0.230	0.257	0.293	0.286	0.295	0.277	0.303	0.303	0.316	0.329	0.289	9.99	
75)	T	4,6-Dinitro-o-cresol				0.126	0.148	0.131	0.181	0.183	0.203	0.221		*L	0.9946
76)	T	NDPA/DPA	1.117	1.080	1.188	1.110	1.101	1.034	1.182	1.135	1.121	1.169	1.124	4.24	
77)	T	Azobenzene	1.389	1.345	1.370	1.263	1.289	1.195	1.348	1.320	1.300	1.373	1.319	4.51	
78)	S	2,4,6-Tribromophenol	0.157	0.167	0.185	0.176	0.170	0.170	0.197	0.198	0.201	0.215	0.184	10.14	
79)	T	4-Bromophenyl-phenylether	0.407	0.386	0.399	0.346	0.357	0.332	0.375	0.367	0.362	0.379	0.371	6.24	
80)	T	Hexachlorobenzene	0.509	0.443	0.462	0.418	0.409	0.375	0.431	0.415	0.415	0.440	0.432	8.29	
81)	T	Pentachlorophenol			0.215	0.223	0.221	0.215	0.270	0.262	0.269	0.292		*L	0.9965
82)	I	IS2_Acenaphthene-d10	----------ISTD----------												
83)	T	Dichloran				0.106	0.112	0.170	0.134	0.139	0.168	0.161		*L	0.9968
84)	T	Pentachloronitrobenzene			0.127	0.121	0.141	0.221	0.165	0.165	0.183	0.177		*L	0.9980
85)	I	IS3_Acenaphthene-d10	----------ISTD----------												
86)	T	Atrazine	0.349	0.348	0.329	0.319	0.327	0.341	0.343	0.344	0.374	0.371	0.345	5.15	
87)	I	IS1_Phenanthrene-d10	----------ISTD----------												
88)	T	Phenanthrene	1.156	1.108	1.102	1.068	1.103	0.974	1.096	1.069	1.087	1.130	1.089	4.45	
89)	T	Anthracene	1.094	1.003	1.131	1.087	1.102	0.980	1.115	1.078	1.107	1.145	1.084	4.88	
90)	T	Carbazole	0.877	0.956	1.011	1.020	0.994	0.914	1.023	1.006	1.049	1.058	0.991	5.86	
91)	T	Di-n-butylphthalate	1.197	1.122	1.237	1.231	1.251	1.163	1.356	1.316	1.384	1.431	1.269	7.89	
92)	T	Fluoranthene	1.161	1.071	1.171	1.161	1.161	1.044	1.213	1.191	1.219	1.254	1.165	5.52	
93)	T	Benzidine	0.656	0.641	0.750	0.762	0.786	0.704	0.850	0.847	0.869	0.832	0.770	10.67	
94)	T	Pyrene	1.204	1.183	1.265	1.248	1.228	1.103	1.271	1.240	1.272	1.315	1.233	4.79	
95)	S	4-Terphenyl-d14	0.837	0.839	0.902	0.885	0.864	0.794	0.919	0.883	0.905	0.945	0.877	5.09	
96)	T	Butyl benzyl phthalate			0.406	0.510	0.497	0.523	0.495	0.587	0.583	0.631	0.641	0.541	13.94
97)	I	IS2_Phenanthrene-d10	----------ISTD----------												
98)	T	Diphenamid	0.469	0.442	0.454	0.474	0.474	0.699	0.509	0.489	0.531	0.539	0.508	14.56	
99)	I	IS3_Phenanthrene-d10	----------ISTD----------												
100)	T	n-Octadecane	0.468	0.466	0.443	0.422	0.457	0.467	0.456	0.469	0.466	0.483	0.460	3.67	
101)	T	Parathion	0.091	0.089	0.084	0.078	0.085	0.085	0.093	0.101	0.112	0.120	0.094	14.22	
102)	T	3,3'-Dimethylbenzidine				0.389	0.505	0.540	0.594	0.659	0.717	0.744	0.780	*L	0.9978
103)	I	IS1_Chrysene-d12	----------ISTD----------												
104)	T	Benzo[a]anthracene	1.463	1.326	1.375	1.250	1.283	1.188	1.340	1.321	1.331	1.377	1.326	5.66	
105)	T	3,3'-Dichlorobenzidine	0.428	0.404	0.475	0.442	0.471	0.439	0.510	0.506	0.516	0.525	0.472	8.89	
106)	T	Chrysene	1.392	1.242	1.284	1.202	1.205	1.095	1.258	1.210	1.203	1.216	1.231	6.11	
107)	T	bis(2-Ethylhexyl)phthalate	0.726	0.750	0.902	0.872	0.879	0.827	0.990	0.965	0.973	1.003	0.889	11.02	
108)	T	Di-n-octylphthalate	1.204	1.244	1.446	1.403	1.484	1.405	1.693	1.661	1.718	1.736	1.499	12.98	

Initial Calibration Summary
Form 6
Semivolatiles

Client	**: Alpha Geoscience**	**Lab Number**	**: L2410579**
Project Name	**: HUNTINGTON READY MIX**	**Project Number**	**: 20116**
Instrument ID	**: SV106**	**Ical Ref**	**: ICAL20337**
Calibration dates	**: 09/02/23 12:13 09/03/23 00:52**		

Calibration Files

L1 =AP9L1.D L2 =AP9L2.D L3 =AP9L3.D L4 =AP9L4.D L5 =AP9L5.D L6 =AP9L6.D L7 =AP9L7.D
L8 =AP9L8.D L9 =AP9L9.D L10 =AP9L10.D

		Compound	L1	L2	L3	L4	L5	L6	L7	L8	L9	L10	Avg	%RSD
109)	T	Benzo(b)fluoranthene	1.277	1.135	1.311	1.217	1.346	1.123	1.379	1.315	1.304	1.254	1.266	6.73
110)	T	Benzo(k)fluoranthene	1.284	1.239	1.215	1.255	1.110	1.160	1.226	1.219	1.186	1.245	1.214	4.15
111)	T	Benzo(a)pyrene	1.056	0.984	1.138	1.086	1.070	0.993	1.161	1.123	1.116	1.108	1.083	5.43
112)	I	IS1_Perylene-d12	----------ISTD----------											
113)	T	Indeno(1,2,3-cd)pyrene	0.916	0.838	0.921	0.920	0.887	0.832	0.993	0.979	1.058	1.000	0.935	7.81
114)	T	Dibenzo[a,h]anthracene	0.899	0.918	0.990	0.974	0.975	0.921	1.091	1.064	1.090	1.073	0.999	7.49
115)	T	Benzo(g,h,i)perylene	0.969	0.962	1.043	0.994	0.967	0.906	1.065	1.022	1.042	0.945	0.991	5.09

Initial Calibration Summary
Form 6
Semivolatiles

Client	**: Alpha Geoscience**	**Lab Number**	**: L2410579**
Project Name	**: HUNTINGTON READY MIX**	**Project Number**	**: 20116**
Instrument ID	**: DAKOTA**	**Ical Ref**	**: ICAL20900**
Calibration dates	**: 02/28/24 20:52 02/29/24 04:00**		

Calibration Files
L1 =APDPL1.D L2 =APDPL2.D L3 =APDPL3.D L4 =APDPL4.D L5 =APDPL5.D L6 =APDPL6.D L7 =APDPL
L8 =APDPL8.D L9 =APDPL9.D L10 =APDPL10.D

		Compound	L1	L2	L3	L4	L5	L6	L7	L8	L9	L10	Avg	%RSD
1)	I	IS1_1,4-Dichlorobenzene-d4	----------ISTD----------											
2)	t	N-Nitrosodimethylamine	0.681	0.654	0.669	0.718	0.746	0.734	0.716	0.919	0.786	0.827	0.745	10.83
3)	t	Pyridine	0.910	0.931	0.963	1.114	1.174	1.094	1.129	1.366	1.231	1.312	1.122	13.85
4)	S	2-Fluorophenol	1.087	0.953	1.017	1.021	1.065	1.019	1.018	1.276	1.092	1.159	1.071	8.54
5)	T	Aniline	1.462	1.534	1.587	1.553	1.602	1.558	1.519	1.946	1.651	1.711	1.612	8.45
6)	t	2-Chlorophenol	1.008	1.224	1.036	1.128	1.166	1.142	1.131	1.433	1.202	1.239	1.171	10.10
7)	S	Phenol-d6	1.312	1.284	1.275	1.326	1.347	1.336	1.327	1.698	1.441	1.490	1.383	9.36
8)	T	Phenol	1.296	1.386	1.519	1.421	1.556	1.528	1.478	1.879	1.588	1.629	1.528	10.37
9)	T	bis(2-Chloroethyl)ether	1.121	1.042	1.054	1.018	1.103	1.026	1.030	1.274	1.059	1.092	1.082	7.01
10)	T	1,3-Dichlorobenzene	1.561	1.448	1.493	1.419	1.497	1.463	1.406	1.741	1.441	1.476	1.495	6.51
11)	T	1,4-Dichlorobenzene	1.719	1.442	1.441	1.425	1.514	1.448	1.426	1.759	1.452	1.487	1.511	8.17
12)	T	1,2-Dichlorobenzene	1.458	1.373	1.397	1.422	1.510	1.379	1.381	1.676	1.376	1.413	1.439	6.53
13)	t	Benzyl alcohol	0.817	0.956	0.928	0.918	0.992	0.926	0.932	1.180	0.987	1.044	0.968	9.85
14)	T	bis(2-chloroisopropyl)ether	2.374	2.176	2.126	2.107	2.228	2.162	2.070	2.543	2.093	2.134	2.201	6.73
15)	T	2-Methylphenol	1.073	0.933	0.969	1.023	1.031	1.032	0.974	1.263	1.038	1.076	1.041	8.67
16)	T	Hexachloroethane	0.548	0.583	0.545	0.534	0.542	0.528	0.512	0.636	0.535	0.547	0.551	6.34
17)	T	n-Nitrosodi-n-propylamine	0.832	0.840	0.801	0.838	0.873	0.824	0.829	1.021	0.853	0.895	0.860	7.22
18)	T	3-Methylphenol/4-Methylphenol	1.379	1.131	1.029	1.060	1.106	1.072	1.065	1.306	1.097	1.131	1.138	10.02
19)	S	Nitrobenzene-d5	1.275	1.186	1.207	1.179	1.273	1.217	1.186	1.481	1.221	1.239	1.246	7.15
20)	T	Nitrobenzene	1.213	1.228	1.255	1.171	1.223	1.176	1.149	1.443	1.189	1.218	1.226	6.70
21)	T	Isophorone	2.141	1.917	2.127	2.044	2.179	2.209	2.093	2.640	2.186	2.302	2.184	8.72
22)	T	2-Nitrophenol		0.496	0.519	0.516	0.547	0.553	0.569	0.716	0.615	0.635	0.574	12.22
23)	T	2,4-Dimethylphenol	0.938	0.859	0.830	0.834	0.880	0.866	0.860	1.056	0.894	0.940	0.896	7.58
24)	T	bis(2-Chloroethoxy)methane	1.438	1.373	1.415	1.361	1.383	1.360	1.330	1.618	1.357	1.404	1.404	5.80
25)	T	2,4-Dichlorophenol	1.070	1.040	1.028	1.154	1.171	1.167	1.142	1.384	1.160	1.200	1.152	8.76
26)	T	1,2,4-Trichlorobenzene	1.561	1.385	1.423	1.436	1.509	1.455	1.429	1.718	1.424	1.458	1.480	6.56
27)	I	IS2_1,4-Dichlorobenzene-d4	----------ISTD----------											
28)	T	Benzaldehyde			0.465	0.442	0.499	0.475	0.470	0.489	0.466	0.554	0.482	6.95
29)	T	Acetophenone	1.663	1.702	1.686	1.543	1.674	1.678	1.748	1.729	1.629	1.887	1.694	5.21
30)	T	m-Toluidine	1.126	1.209	1.164	1.085	1.192	1.249	1.261	1.233	1.203	1.407	1.213	7.19
31)	T	2-Chloroaniline	1.230	1.329	1.459	1.322	1.497	1.454	1.497	1.496	1.411	1.634	1.433	8.01
32)	T	n-Decane	1.627	1.485	1.372	1.317	1.459	1.374	1.351	1.353	1.334	1.507	1.418	6.96
33)	I	IS1_Naphthalene-d8	----------ISTD----------											
34)	T	Naphthalene	0.975	1.021	0.971	0.971	1.053	1.030	0.958	1.176	0.976	0.994	1.012	6.45
35)	T	Benzoic Acid				0.103	0.148	0.170	0.193	0.269	0.248	0.270	*L	0.9942
36)	T	4-Chloroaniline	0.137	0.115	0.128	0.124	0.129	0.134	0.121	0.148	0.126	0.132	0.129	7.13

Initial Calibration Summary
Form 6
Semivolatiles

Client	**: Alpha Geoscience**	**Lab Number**	**: L2410579**
Project Name	**: HUNTINGTON READY MIX**	**Project Number**	**: 20116**
Instrument ID	**: DAKOTA**	**Ical Ref**	**: ICAL20900**
Calibration dates	**: 02/28/24 20:52 02/29/24 04:00**		

Calibration Files
L1 =APDPL1.D L2 =APDPL2.D L3 =APDPL3.D L4 =APDPL4.D L5 =APDPL5.D L6 =APDPL6.D L7 =APDPL
L8 =APDPL8.D L9 =APDPL9.D L10 =APDPL10.D

		Compound	L1	L2	L3	L4	L5	L6	L7	L8	L9	L10	Avg	%RSD
37)	T	Hexachlorobutadiene	0.202	0.252	0.249	0.257	0.257	0.260	0.238	0.295	0.247	0.257	0.251	9.06
38)	T	p-Chloro-m-cresol	0.272	0.254	0.265	0.267	0.281	0.282	0.273	0.338	0.285	0.307	0.282	8.51
39)	T	2-Methylnaphthalene	0.721	0.754	0.656	0.676	0.717	0.695	0.670	0.827	0.693	0.721	0.713	6.92
40)	T	1-Methylnaphthalene	0.258	0.206	0.212	0.225	0.223	0.230	0.215	0.262	0.219	0.228	0.228	8.21
41)	T	Hexachlorocyclopentadiene	0.186	0.219	0.212	0.227	0.235	0.231	0.231	0.289	0.251	0.262	0.234	12.07
42)	T	2,4,6-Trichlorophenol	0.245	0.247	0.269	0.260	0.289	0.276	0.263	0.334	0.285	0.303	0.277	9.77
43)	T	2,4,5-Trichlorophenol	0.280	0.303	0.272	0.275	0.295	0.310	0.291	0.365	0.313	0.327	0.303	9.24
44)	S	2-Fluorobiphenyl	0.818	0.927	0.869	0.895	0.946	0.893	0.860	1.019	0.864	0.875	0.897	6.22
45)	T	2-Chloronaphthalene	0.746	0.747	0.739	0.749	0.771	0.780	0.715	0.870	0.730	0.753	0.760	5.63
46)	T	2-Nitroaniline	0.141	0.184	0.185	0.177	0.196	0.203	0.199	0.248	0.218	0.227	0.198	14.91
47)	T	1,4-Dinitrobenzene		0.066	0.073	0.082	0.085	0.092	0.084	0.111	0.102	0.106	0.089	17.04
48)	T	1,3-Dinitrobenzene		0.101	0.086	0.093	0.104	0.103	0.099	0.130	0.115	0.125	0.106	13.68
49)	T	Dimethyl phthalate	0.830	0.834	0.798	0.852	0.851	0.868	0.823	0.999	0.847	0.892	0.860	6.44
50)	T	Acenaphthylene	1.050	1.126	1.100	1.123	1.213	1.192	1.112	1.334	1.112	1.144	1.151	6.88
51)	T	2,6-Dinitrotoluene	0.120	0.151	0.158	0.162	0.167	0.173	0.166	0.209	0.182	0.194	0.168	14.39
52)	T	1,2-Dinitrobenzene		0.056	0.054	0.063	0.069	0.069	0.064	0.081	0.074	0.076	0.067	13.32
53)	I	IS2_Naphthalene-d8	----------ISTD----------											
54)	T	a-Terpineol	0.310	0.268	0.290	0.268	0.294	0.293	0.308	0.314	0.298	0.343	0.299	7.44
55)	T	3-Chloroaniline	0.118	0.117	0.137	0.131	0.141	0.129	0.134	0.137	0.132	0.148	0.132	7.14
56)	T	2,6-Dichlorophenol	0.287	0.300	0.303	0.304	0.318	0.318	0.326	0.334	0.312	0.356	0.316	6.19
57)	T	1-chloro-2-nitrobenzene	0.115	0.119	0.121	0.132	0.125	0.132	0.130	0.137	0.128	0.147	0.129	7.12
58)	T	Caprolactam				0.146	0.147	0.150	0.166	0.180	0.169	0.194	0.165	11.01
59)	T	1,2,4,5-Tetrachlorobenzene	0.470	0.459	0.437	0.432	0.444	0.434	0.447	0.446	0.421	0.476	0.447	3.90
60)	T	Biphenyl	0.851	0.918	0.870	0.887	0.886	0.900	0.914	0.898	0.838	0.945	0.891	3.60
61)	I	IS1_Acenaphthene-d10	----------ISTD----------											
62)	T	3-Nitroaniline		0.222	0.265	0.250	0.276	0.287	0.288	0.345	0.310	0.323	0.285	13.19
63)	T	Acenaphthene	0.985	1.008	1.025	1.032	0.982	0.994	1.002	1.149	1.001	1.032	1.021	4.72
64)	T	2,4-Dinitrophenol			0.061	0.120	0.119	0.134	0.158	0.200	0.189	0.206	*Q	0.9965
65)	T	Dibenzofuran	1.751	1.809	1.750	1.748	1.747	1.720	1.718	1.988	1.704	1.715	1.765	4.74
66)	T	2,4-Dinitrotoluene		0.290	0.291	0.317	0.333	0.354	0.371	0.451	0.401	0.424	*Q	0.9963
67)	T	4-Nitrophenol	0.200	0.200	0.215	0.228	0.222	0.225	0.238	0.293	0.259	0.272	0.235	13.09
68)	T	2,3,5,6-Tetrachlorophenol	0.369	0.348	0.364	0.422	0.422	0.410	0.417	0.492	0.439	0.458	0.414	10.70
69)	T	2,3,4,6-Tetrachlorophenol	0.331	0.329	0.385	0.388	0.410	0.401	0.404	0.472	0.417	0.430	0.397	10.80
70)	T	Diethyl phthalate	1.319	1.289	1.285	1.306	1.327	1.305	1.312	1.520	1.338	1.393	1.340	5.26
71)	T	Fluorene	1.368	1.355	1.318	1.356	1.326	1.314	1.288	1.517	1.317	1.344	1.350	4.68
72)	T	4-Chlorophenyl-phenylether	0.726	0.694	0.700	0.703	0.713	0.691	0.693	0.805	0.697	0.712	0.713	4.77

Initial Calibration Summary
Form 6
Semivolatiles

Client	**: Alpha Geoscience**	**Lab Number**	**: L2410579**
Project Name	**: HUNTINGTON READY MIX**	**Project Number**	**: 20116**
Instrument ID	**: DAKOTA**	**Ical Ref**	**: ICAL20900**
Calibration dates	**: 02/28/24 20:52 02/29/24 04:00**		

Calibration Files
L1 =APDPL1.D L2 =APDPL2.D L3 =APDPL3.D L4 =APDPL4.D L5 =APDPL5.D L6 =APDPL6.D L7 =APDPL
L8 =APDPL8.D L9 =APDPL9.D L10 =APDPL10.D

		Compound	L1	L2	L3	L4	L5	L6	L7	L8	L9	L10	Avg	%RSD
73)	T	4-Nitroaniline		0.202	0.243	0.278	0.276	0.283	0.295	0.339	0.309	0.318	0.283	14.47
74)	T	4,6-Dinitro-o-cresol			0.144	0.171	0.181	0.196	0.216	0.269	0.258	0.275	*Q	0.9972
75)	T	NDPA/DPA	0.984	1.150	1.070	1.108	1.124	1.103	1.111	1.268	1.116	1.143	1.118	6.32
76)	T	Azobenzene	1.249	1.138	1.172	1.166	1.164	1.156	1.151	1.346	1.153	1.188	1.188	5.32
77)	S	2,4,6-Tribromophenol	0.255	0.256	0.238	0.252	0.245	0.252	0.259	0.305	0.275	0.292	0.263	8.16
78)	T	4-Bromophenyl-phenylether	0.401	0.428	0.466	0.446	0.452	0.443	0.444	0.519	0.463	0.489	0.455	7.08
79)	T	Hexachlorobenzene	0.531	0.552	0.566	0.552	0.533	0.523	0.542	0.625	0.555	0.583	0.556	5.36
80)	T	Pentachlorophenol				0.318	0.320	0.341	0.359	0.436	0.395	0.423	0.370	13.03
81)	I	IS2_Acenaphthene-d10	----------ISTD----------											
82)	T	Dichloran			0.142	0.148	0.153	0.156	0.183	0.193	0.210	0.235	0.178	18.88
83)	T	Pentachloronitrobenzene		0.177	0.170	0.168	0.176	0.188	0.198	0.201	0.206	0.229	0.190	10.63
84)	T	Atrazine	0.357	0.322	0.353	0.361	0.375	0.383	0.404	0.402	0.413	0.466	0.384	10.46
85)	I	IS1_Phenanthrene-d10	----------ISTD----------											
86)	T	Phenanthrene	1.117	1.039	1.003	1.035	1.025	1.016	0.977	1.190	0.988	0.994	1.038	6.36
87)	T	Anthracene	1.076	0.982	1.007	1.028	1.009	1.011	0.978	1.190	0.999	0.994	1.027	6.18
88)	T	Carbazole	1.073	0.881	0.926	0.933	0.963	0.968	0.931	1.112	0.946	0.953	0.968	7.25
89)	T	Di-n-butylphthalate	1.036	0.938	0.986	1.012	1.026	1.060	1.065	1.339	1.126	1.156	1.074	10.47
90)	T	Fluoranthene	1.398	1.331	1.247	1.242	1.248	1.244	1.193	1.487	1.253	1.265	1.291	6.92
91)	T	Benzidine	0.675	0.731	0.652	0.743	0.753	0.776	0.767	0.949	0.779	0.781	0.761	10.46
92)	T	Pyrene	1.497	1.357	1.297	1.350	1.358	1.339	1.293	1.532	1.285	1.284	1.359	6.43
93)	S	4-Terphenyl-d14	1.159	0.981	1.012	1.014	1.021	1.039	0.996	1.194	1.018	1.015	1.045	6.84
94)	T	Butyl benzyl phthalate			0.397	0.430	0.431	0.471	0.477	0.607	0.541	0.566	*L	0.9957
95)	I	IS2_Phenanthrene-d10	----------ISTD----------											
96)	T	Diphenamid	0.384	0.402	0.411	0.405	0.432	0.448	0.458	0.486	0.481	0.548	0.446	11.14
97)	T	n-Octadecane	0.377	0.403	0.390	0.368	0.397	0.412	0.406	0.422	0.411	0.463	0.405	6.49
98)	T	Parathion			0.071	0.065	0.071	0.074	0.084	0.095	0.106	0.126	*Q	0.9990
99)	T	3,3'-Dimethylbenzidine		0.338	0.368	0.406	0.459	0.483	0.561	0.632	0.667	0.757	*Q	0.9986
100)	I	IS1_Chrysene-d12	----------ISTD----------											
101)	T	Benzo[a]anthracene	1.511	1.335	1.274	1.319	1.313	1.313	1.316	1.588	1.339	1.371	1.368	7.34
102)	T	3,3'-Dichlorobenzidine	0.462	0.443	0.442	0.466	0.492	0.505	0.518	0.651	0.566	0.595	0.514	13.56
103)	T	Chrysene	1.566	1.387	1.350	1.302	1.289	1.269	1.238	1.469	1.223	1.243	1.333	8.38
104)	T	bis(2-Ethylhexyl)phthalate		0.530	0.552	0.614	0.645	0.686	0.727	0.907	0.767	0.796	*L	0.9946
105)	T	Di-n-octylphthalate			0.834	0.992	1.053	1.139	1.242	1.565	1.422	1.481	*L	0.9959
106)	T	Benzo(b)fluoranthene	1.404	1.336	1.281	1.324	1.382	1.375	1.403	1.651	1.471	1.482	1.411	7.42
107)	T	Benzo(k)fluoranthene	1.480	1.317	1.313	1.358	1.401	1.360	1.341	1.645	1.347	1.359	1.392	7.25
108)	T	Benzo(a)pyrene	1.189	1.195	1.231	1.240	1.270	1.280	1.300	1.568	1.366	1.379	1.302	8.70

Initial Calibration Summary
Form 6
Semivolatiles

Client	**: Alpha Geoscience**	**Lab Number**	**: L2410579**
Project Name	**: HUNTINGTON READY MIX**	**Project Number**	**: 20116**
Instrument ID	**: DAKOTA**	**Ical Ref**	**: ICAL20900**
Calibration dates	**: 02/28/24 20:52 02/29/24 04:00**		

Calibration Files

L1 =APDPL1.D L2 =APDPL2.D L3 =APDPL3.D L4 =APDPL4.D L5 =APDPL5.D L6 =APDPL6.D L7 =APDPL
L8 =APDPL8.D L9 =APDPL9.D L10 =APDPL10.D

	Compound	L1	L2	L3	L4	L5	L6	L7	L8	L9	L10	Avg	%RSD
109) I	IS1_Perylene-d12	----------ISTD----------											
110) T	Indeno(1,2,3-cd)pyrene	1.167	1.144	1.190	1.114	1.230	1.229	1.273	1.535	1.300	1.383	1.256	10.03
111) T	Dibenzo[a,h]anthracene	1.088	1.097	1.095	1.093	1.177	1.186	1.176	1.423	1.212	1.198	1.175	8.54
112) T	Benzo(g,h,i)perylene	1.193	1.135	1.145	1.119	1.160	1.176	1.143	1.396	1.180	1.173	1.182	6.66

Response Factor Report SV 106

Method Path : I:\8270\SV106\230902lviical\
Method File : FS230902SV106.m
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Tue Sep 05 11:32:08 2023
Response Via : Initial Calibration

Calibration Files
L1 =AP9L1.D L2 =AP9L2.D L3 =AP9L3.D L4 =AP9L4.D L5 =AP9L5.D L6 =AP9L6.D L7 =AP9L7.D
L8 =AP9L8.D L9 =AP9L9.D L10 =AP9L10.D

		Compound	L1	L2	L3	L4	L5	L6	L7	L8	L9	L10	Avg	%RSD
1)	I	IS1_1,4-Dichlorobenzene-d4	ISTD											
2)	t	N-Nitrosodimethylamine		0.648	0.703	0.681	0.660	0.622	0.719	0.685	0.676	0.702	0.677	4.47
3)	t	Pyridine	1.054	1.120	1.163	1.116	1.175	1.061	1.236	1.233	1.179	1.168	1.151	5.45
4)	S	2-Fluorophenol	1.088	1.096	1.126	1.083	1.108	0.995	1.181	1.182	1.146	1.151	1.116	4.99
5)	T	Aniline	1.838	1.833	1.964	1.902	1.868	1.720	2.000	1.918	1.903	1.985	1.893	4.42
6)	t	2-Chlorophenol	1.219	1.195	1.332	1.275	1.232	1.185	1.371	1.300	1.302	1.333	1.274	5.01
7)	S	Phenol-d6	1.324	1.450	1.447	1.418	1.415	1.329	1.552	1.459	1.466	1.513	1.437	4.96
8)	T	Phenol	1.574	1.402	1.560	1.504	1.542	1.373	1.603	1.551	1.523	1.579	1.521	5.01
9)	T	bis(2-Chloroethyl)ether	1.344	1.167	1.223	1.216	1.205	1.114	1.275	1.221	1.206	1.247	1.222	5.00
10)	T	1,3-Dichlorobenzene	1.513	1.406	1.544	1.452	1.452	1.343	1.510	1.469	1.451	1.468	1.461	3.91
11)	T	1,4-Dichlorobenzene	1.759	1.418	1.531	1.494	1.463	1.344	1.561	1.490	1.474	1.497	1.503	7.18
12)	T	1,2-Dichlorobenzene	1.543	1.424	1.464	1.456	1.374	1.288	1.496	1.422	1.403	1.441	1.431	4.84
13)	t	Benzyl alcohol	1.065	0.893	1.101	1.048	1.048	0.989	1.167	1.122	1.117	1.185	1.074	8.05
14)	T	bis(2-chloroisopropyl)ether	1.769	1.838	1.890	1.806	1.800	1.644	1.898	1.820	1.744	1.786	1.800	4.06
15)	T	2-Methylphenol	1.062	1.118	1.139	1.150	1.104	1.017	1.221	1.184	1.167	1.215	1.138	5.70
16)	T	Hexachloroethane	0.590	0.574	0.631	0.572	0.572	0.535	0.613	0.589	0.585	0.600	0.586	4.46
17)	T	n-Nitrosodi-n-propylamine	0.970	0.903	0.936	0.894	0.893	0.833	0.981	0.922	0.925	0.978	0.923	4.98
18)	T	3-Methylphenol/4-Methylphenol	1.065	1.100	1.213	1.221	1.177	1.092	1.292	1.238	1.227	1.309	1.193	7.02
19)	S	Nitrobenzene-d5	1.349	1.280	1.290	1.189	1.281	1.160	1.381	1.348	1.345	1.407	1.303	6.12
20)	T	Nitrobenzene	1.173	1.318	1.243	1.244	1.278	1.189	1.396	1.359	1.350	1.396	1.295	6.30
21)	T	Isophorone	2.439	2.405	2.498	2.425	2.467	2.235	2.627	2.531	2.491	2.660	2.478	4.81
22)	T	2-Nitrophenol	0.473	0.461	0.464	0.461	0.482	0.467	0.596	0.573	0.581	0.621	0.518	12.71
23)	T	2,4-Dimethylphenol	1.263	1.209	1.251	1.250	1.287	1.202	1.384	1.328	1.310	1.324	1.281	4.45
24)	T	bis(2-Chloroethoxy)methane	1.673	1.453	1.571	1.543	1.508	1.418	1.628	1.583	1.526	1.621	1.552	5.12
25)	T	2,4-Dichlorophenol	0.973	0.961	1.024	1.067	1.090	1.018	1.186	1.141	1.104	1.192	1.076	7.62
26)	T	1,2,4-Trichlorobenzene	1.228	1.215	1.287	1.261	1.240	1.103	1.291	1.244	1.212	1.268	1.235	4.36
27)	I	IS2_1,4-Dichlorobenzene-d4	ISTD											
28)	T	Benzaldehyde			1.071	0.918	0.885	1.299	0.926	0.801	0.740	0.787	0.928	19.58
29)	T	Acetophenone	2.251	1.920	1.957	1.826	1.903	2.587	1.898	1.810	1.883	1.906	1.994	12.10
30)	T	m-Toluidine			1.492	1.442	1.434	2.182	1.574	1.433	1.382	1.459	1.550	16.86
31)	T	2-Chloroaniline	1.889	1.484	1.696	1.521	1.557	2.203	1.625	1.546	1.579	1.606	1.670	13.12
32)	I	IS3_1,4-Dichlorobenzene-d4	ISTD											
33)	T	n-Decane	1.354	1.422	1.378	1.307	1.338	1.336	1.316	1.338	1.318	1.363	1.347	2.55
34)	I	IS1_Naphthalene-d8	ISTD											
35)	T	Naphthalene	1.046	0.979	1.049	1.016	0.962	0.894	1.038	1.026	1.019	1.055	1.008	4.98
36)	T	Benzoic Acid					0.154	0.161	0.230	0.246	0.255	0.273	*L	0.9982
37)	T	4-Chloroaniline	0.147	0.112	0.132	0.134	0.127	0.119	0.142	0.136	0.133	0.138	0.132	7.98
38)	T	Hexachlorobutadiene	0.233	0.210	0.211	0.200	0.208	0.180	0.206	0.206	0.199	0.203	0.206	6.37
39)	T	p-Chloro-m-cresol	0.257	0.259	0.292	0.275	0.293	0.268	0.314	0.315	0.312	0.330	0.291	8.87
40)	T	2-Methylnaphthalene	0.631	0.635	0.683	0.650	0.622	0.571	0.661	0.653	0.641	0.673	0.642	4.86
41)	T	1-Methylnaphthalene	0.217	0.243	0.253	0.253	0.232	0.218	0.251	0.249	0.240	0.251	0.241	5.70
42)	T	Hexachlorocyclopentadiene	0.212	0.203	0.213	0.219	0.221	0.195	0.234	0.230	0.232	0.234	0.219	6.17
43)	T	2,4,6-Trichlorophenol	0.195	0.184	0.205	0.202	0.204	0.182	0.227	0.222	0.223	0.242	0.209	9.27
44)	T	2,4,5-Trichlorophenol	0.230	0.191	0.222	0.220	0.220	0.196	0.243	0.241	0.240	0.241	0.224	8.26
45)	S	2-Fluorobiphenyl	0.835	0.731	0.799	0.785	0.737	0.676	0.772	0.771	0.748	0.781	0.764	5.70

Response Factor Report SV 106

Method Path : I:\8270\SV106\230902lviical\
Method File : FS230902SV106.m
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Tue Sep 05 11:32:08 2023
Response Via : Initial Calibration

Calibration Files
L1 =AP9L1.D L2 =AP9L2.D L3 =AP9L3.D L4 =AP9L4.D L5 =AP9L5.D L6 =AP9L6.D L7 =AP9L7.D
L8 =AP9L8.D L9 =AP9L9.D L10 =AP9L10.D

		Compound	L1	L2	L3	L4	L5	L6	L7	L8	L9	L10	Avg	%RSD
46)	T	2-Chloronaphthalene	0.685	0.640	0.719	0.682	0.665	0.597	0.684	0.674	0.658	0.687	0.669	4.89
47)	T	2-Nitroaniline			0.158	0.153	0.162	0.156	0.192	0.195	0.197	0.208	*L	0.9975
48)	T	1,4-Dinitrobenzene				0.069	0.069	0.061	0.083	0.085	0.089	0.096	*L	0.9958
49)	T	1,3-Dinitrobenzene				0.080	0.076	0.076	0.094	0.099	0.107	0.112	*L	0.9969
50)	T	Dimethyl phthalate	0.828	0.719	0.845	0.777	0.777	0.710	0.808	0.810	0.779	0.821	0.787	5.69
51)	T	Acenaphthylene	1.110	1.006	1.125	1.073	1.054	0.948	1.112	1.118	1.083	1.140	1.077	5.59
52)	T	2,6-Dinitrotoluene			0.129	0.136	0.133	0.126	0.159	0.161	0.159	0.167	*L	0.9978
53)	T	1,2-Dinitrobenzene				0.055	0.058	0.056	0.069	0.069	0.067	0.070	0.063	10.66
54)	I	IS2_Naphthalene-d8	----------ISTD----------											
55)	T	a-Terpineol	0.327	0.276	0.274	0.267	0.267	0.376	0.273	0.268	0.284	0.275	0.289	12.23
56)	T	3-Chloroaniline	0.150	0.143	0.153	0.145	0.145	0.202	0.148	0.139	0.140	0.138	0.150	12.50
57)	T	2,6-Dichlorophenol	0.269	0.249	0.244	0.254	0.263	0.378	0.272	0.270	0.285	0.282	0.277	13.72
58)	T	1-chloro-2-nitrobenzene	0.125	0.121	0.128	0.116	0.115	0.174	0.128	0.130	0.139	0.135	0.131	13.00
59)	T	Caprolactam	0.122	0.140	0.132	0.129	0.135	0.199	0.150	0.148	0.160	0.152	0.147	14.87
60)	T	1,2,4,5-Tetrachlorobenzene	0.383	0.370	0.337	0.334	0.319	0.446	0.323	0.316	0.332	0.321	0.348	11.76
61)	T	Biphenyl	0.951	0.858	0.839	0.798	0.794	1.117	0.800	0.785	0.813	0.802	0.856	12.19
62)	I	IS1_Acenaphthene-d10	----------ISTD----------											
63)	T	3-Nitroaniline		0.218	0.276	0.261	0.272	0.262	0.330	0.312	0.313	0.331	0.286	13.35
64)	T	Acenaphthene	1.245	1.152	1.174	1.130	1.082	0.999	1.158	1.107	1.095	1.164	1.131	5.82
65)	T	2,4-Dinitrophenol				0.094	0.110	0.108	0.137	0.138	0.155	0.165	*L	0.9965
66)	T	Dibenzofuran	1.692	1.754	1.791	1.672	1.656	1.509	1.750	1.672	1.669	1.738	1.690	4.63
67)	T	2,4-Dinitrotoluene			0.309	0.306	0.304	0.304	0.380	0.371	0.389	0.411	*L	0.9969
68)	T	4-Nitrophenol			0.234	0.230	0.243	0.226	0.283	0.277	0.285	0.309	*L	0.9963
69)	T	2,3,5,6-Tetrachlorophenol	0.295	0.260	0.324	0.326	0.326	0.298	0.359	0.347	0.349	0.367	0.325	10.18
70)	T	2,3,4,6-Tetrachlorophenol	0.349	0.297	0.356	0.307	0.333	0.306	0.369	0.347	0.344	0.363	0.337	7.51
71)	T	Diethyl phthalate	1.394	1.403	1.479	1.414	1.390	1.303	1.459	1.395	1.423	1.488	1.415	3.78
72)	T	Fluorene	1.342	1.330	1.403	1.298	1.306	1.208	1.405	1.344	1.329	1.388	1.336	4.38
73)	T	4-Chlorophenyl-phenylether	0.686	0.675	0.667	0.641	0.614	0.566	0.645	0.624	0.610	0.646	0.637	5.59
74)	T	4-Nitroaniline	0.230	0.257	0.293	0.286	0.295	0.277	0.303	0.303	0.316	0.329	0.289	9.99
75)	T	4,6-Dinitro-o-cresol				0.126	0.148	0.131	0.181	0.183	0.203	0.221	*L	0.9946
76)	T	NDPA/DPA	1.117	1.080	1.188	1.110	1.101	1.034	1.182	1.135	1.121	1.169	1.124	4.24
77)	T	Azobenzene	1.389	1.345	1.370	1.263	1.289	1.195	1.348	1.320	1.300	1.373	1.319	4.51
78)	S	2,4,6-Tribromophenol	0.157	0.167	0.185	0.176	0.170	0.170	0.197	0.198	0.201	0.215	0.184	10.14
79)	T	4-Bromophenyl-phenylether	0.407	0.386	0.399	0.346	0.357	0.332	0.375	0.367	0.362	0.379	0.371	6.24
80)	T	Hexachlorobenzene	0.509	0.443	0.462	0.418	0.409	0.375	0.431	0.415	0.415	0.440	0.432	8.29
81)	T	Pentachlorophenol			0.215	0.223	0.221	0.215	0.270	0.262	0.269	0.292	*L	0.9965
82)	I	IS2_Acenaphthene-d10	----------ISTD----------											
83)	T	Dichloran				0.106	0.112	0.170	0.134	0.139	0.168	0.161	*L	0.9968
84)	T	Pentachloronitrobenzene			0.127	0.121	0.141	0.221	0.165	0.165	0.183	0.177	*L	0.9980
85)	I	IS3_Acenaphthene-d10	----------ISTD----------											
86)	T	Atrazine	0.349	0.348	0.329	0.319	0.327	0.341	0.343	0.344	0.374	0.371	0.345	5.15
87)	I	IS1_Phenanthrene-d10	----------ISTD----------											
88)	T	Phenanthrene	1.156	1.108	1.102	1.068	1.103	0.974	1.096	1.069	1.087	1.130	1.089	4.45
89)	T	Anthracene	1.094	1.003	1.131	1.087	1.102	0.980	1.115	1.078	1.107	1.145	1.084	4.88
90)	T	Carbazole	0.877	0.956	1.011	1.020	0.994	0.914	1.023	1.006	1.049	1.058	0.991	5.86

Response Factor Report SV 106

Method Path : I:\8270\SV106\230902lviical\
Method File : FS230902SV106.m
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Tue Sep 05 11:32:08 2023
Response Via : Initial Calibration

Calibration Files
L1 =AP9L1.D L2 =AP9L2.D L3 =AP9L3.D L4 =AP9L4.D L5 =AP9L5.D L6 =AP9L6.D L7 =AP9L7.D
L8 =AP9L8.D L9 =AP9L9.D L10 =AP9L10.D

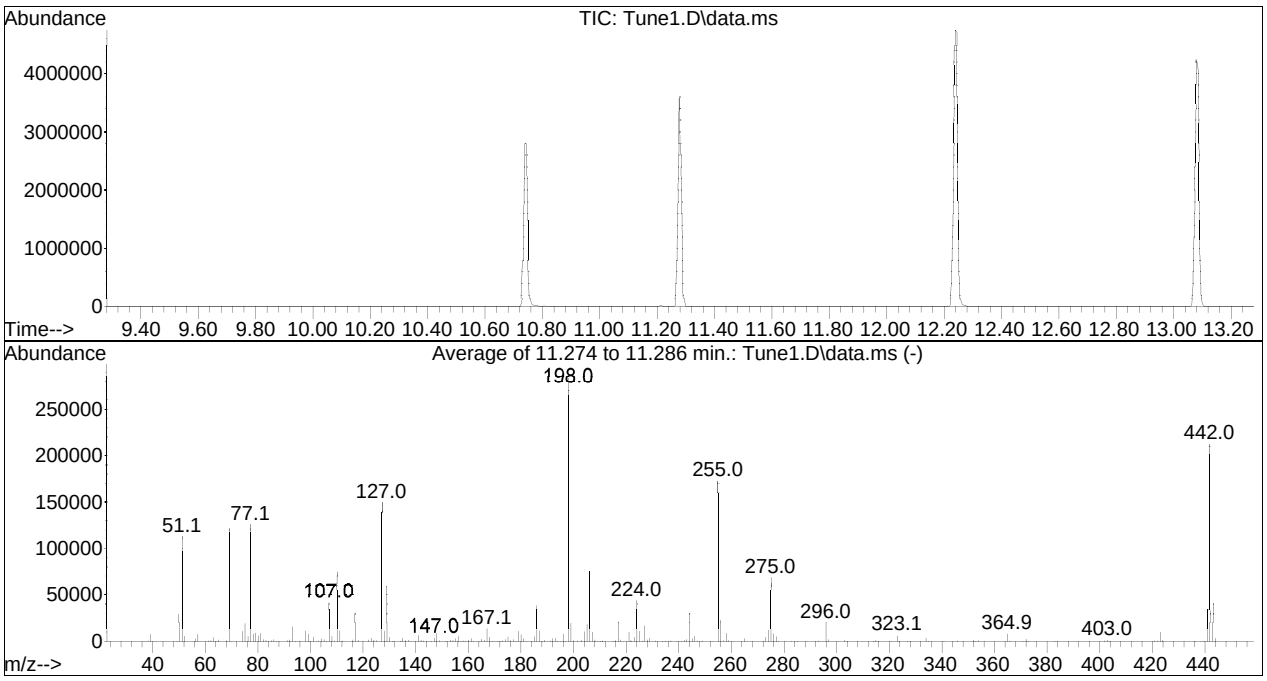
		Compound	L1	L2	L3	L4	L5	L6	L7	L8	L9	L10	Avg	%RSD
91)	T	Di-n-butylphthalate	1.197	1.122	1.237	1.231	1.251	1.163	1.356	1.316	1.384	1.431	1.269	7.89
92)	T	Fluoranthene	1.161	1.071	1.171	1.161	1.161	1.044	1.213	1.191	1.219	1.254	1.165	5.52
93)	T	Benzidine	0.656	0.641	0.750	0.762	0.786	0.704	0.850	0.847	0.869	0.832	0.770	10.67
94)	T	Pyrene	1.204	1.183	1.265	1.248	1.228	1.103	1.271	1.240	1.272	1.315	1.233	4.79
95)	S	4-Terphenyl-d14	0.837	0.839	0.902	0.885	0.864	0.794	0.919	0.883	0.905	0.945	0.877	5.09
96)	T	Butyl benzyl phthalate		0.406	0.510	0.497	0.523	0.495	0.587	0.583	0.631	0.641	0.541	13.94
97)	I	IS2_Phenanthrene-d10	ISTD											
98)	T	Diphenamid	0.469	0.442	0.454	0.474	0.474	0.699	0.509	0.489	0.531	0.539	0.508	14.56
99)	I	IS3_Phenanthrene-d10	ISTD											
100)	T	n-Octadecane	0.468	0.466	0.443	0.422	0.457	0.467	0.456	0.469	0.466	0.483	0.460	3.67
101)	T	Parathion	0.091	0.089	0.084	0.078	0.085	0.085	0.093	0.101	0.112	0.120	0.094	14.22
102)	T	3,3'-Dimethylbenzidine			0.389	0.505	0.540	0.594	0.659	0.717	0.744	0.780	*L	0.9978
103)	I	IS1_Chrysene-d12	ISTD											
104)	T	Benzo[a]anthracene	1.463	1.326	1.375	1.250	1.283	1.188	1.340	1.321	1.331	1.377	1.326	5.66
105)	T	3,3'-Dichlorobenzidine	0.428	0.404	0.475	0.442	0.471	0.439	0.510	0.506	0.516	0.525	0.472	8.89
106)	T	Chrysene	1.392	1.242	1.284	1.202	1.205	1.095	1.258	1.210	1.203	1.216	1.231	6.11
107)	T	bis(2-Ethylhexyl)phthalate	0.726	0.750	0.902	0.872	0.879	0.827	0.990	0.965	0.973	1.003	0.889	11.02
108)	T	Di-n-octylphthalate	1.204	1.244	1.446	1.403	1.484	1.405	1.693	1.661	1.718	1.736	1.499	12.98
109)	T	Benzo(b)fluoranthene	1.277	1.135	1.311	1.217	1.346	1.123	1.379	1.315	1.304	1.254	1.266	6.73
110)	T	Benzo(k)fluoranthene	1.284	1.239	1.215	1.255	1.110	1.160	1.226	1.219	1.186	1.245	1.214	4.15
111)	T	Benzo(a)pyrene	1.056	0.984	1.138	1.086	1.070	0.993	1.161	1.123	1.116	1.108	1.083	5.43
112)	I	IS1_Perylene-d12	ISTD											
113)	T	Indeno(1,2,3-cd)pyrene	0.916	0.838	0.921	0.920	0.887	0.832	0.993	0.979	1.058	1.000	0.935	7.81
114)	T	Dibenzo[a,h]anthracene	0.899	0.918	0.990	0.974	0.975	0.921	1.091	1.064	1.090	1.073	0.999	7.49
115)	T	Benzo(g,h,i)perylene	0.969	0.962	1.043	0.994	0.967	0.906	1.065	1.022	1.042	0.945	0.991	5.09

(#) = Out of Range

Data Path : I:\8270\SV106\230902lviical\
Data File : Tune1.D
Acq On : 2 Sep 2023 11:50 am
Operator : SV106:ljg
Sample : Tune1
Misc : WG1823680,,ical
ALS Vial : 141 Sample Multiplier: 1

Integration File: rteint.p

Method : I:\8270\SV106\230902lviical\FS230902SV106.m
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Tue Sep 05 11:32:08 2023



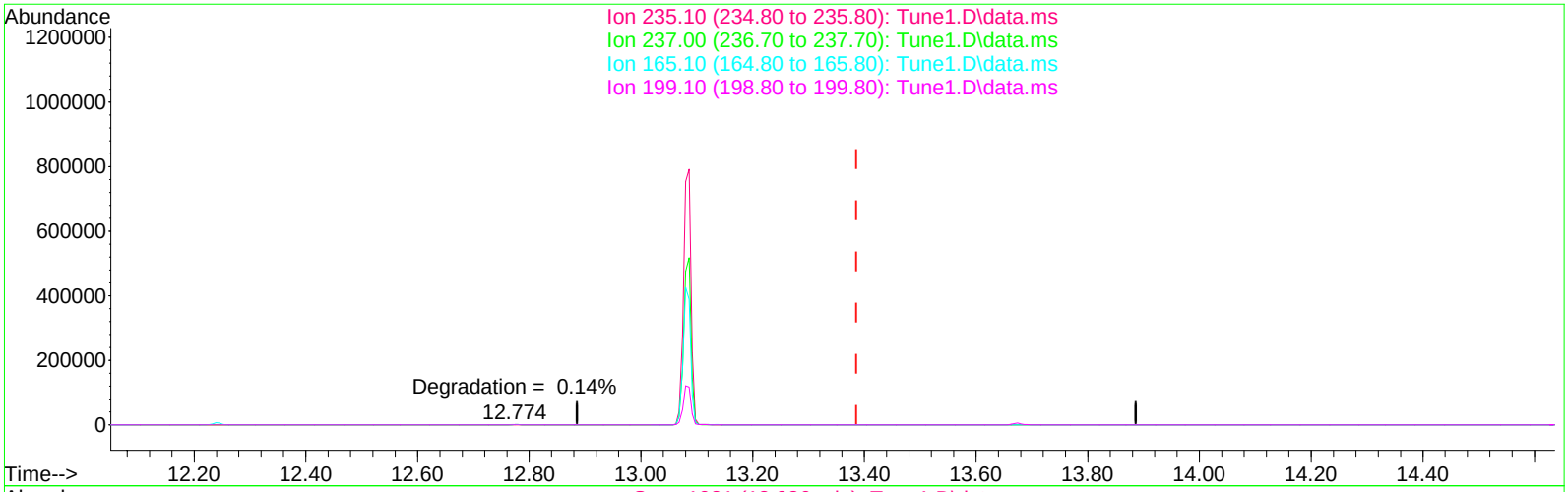
Spectrum Information: Average of 11.274 to 11.286 min.

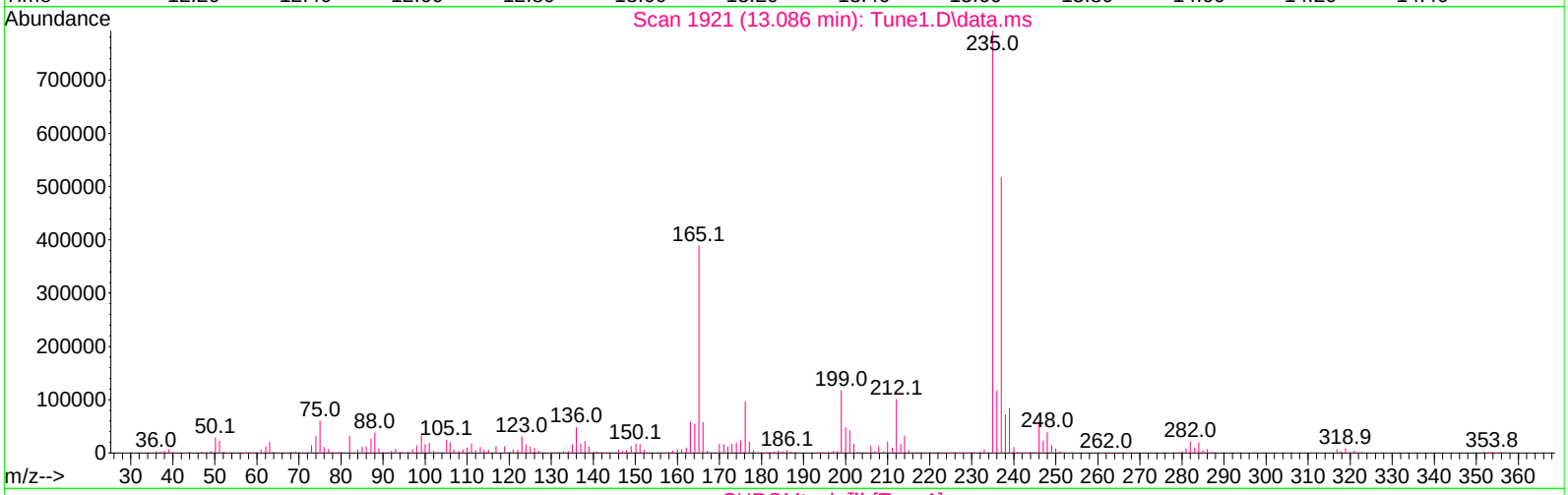
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	39.7	112760	PASS
68	69	0.00	2	1.6	1925	PASS
69	69	100	100	100.0	121213	PASS
70	69	0.00	2	0.5	616	PASS
127	198	10	80	52.7	149675	PASS
197	198	0.00	2	0.2	633	PASS
198	198	100	100	100.0	283861	PASS
199	198	5	9	6.8	19178	PASS
275	198	10	60	24.2	68664	PASS
365	198	1	100	3.0	8390	PASS
441	442	0.01	24	16.4	34864	PASS
442	198	50	100	74.7	212125	PASS
443	442	15	24	19.1	40595	PASS

Quantitation Report (Qedit)

Data Path : I:\8270\SV106\230902lviical\
Data File : Tune1.D
Acq On : 2 Sep 2023 11:50 am
Operator : SV106:ljg
Sample : Tune1
Misc : WG1823680,,ical
ALS Vial : 141 Sample Multiplier: 1

Quant Time: Sep 03 14:45:04 2023
Quant Method : I:\8270\SV106\230902lviical\DftppSV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Aug 23 13:06:27 2023
Response via : Initial Calibration





CHROMtools™ [Tune1]

(6) DDT (T)

13.086min (-0.300) 122.15

response 744589

Ion	Exp%	Act%
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237.00	63.00	63.88
165.10	54.80	53.07
199.10	16.50	15.68

Quantitation Report (Qedit)

Data Path : I:\8270\SV106\230902lviical\
Data File : Tune1.D
Acq On : 2 Sep 2023 11:50 am
Operator : SV106:ljg
Sample : Tune1
Misc : WG1823680,,ical
ALS Vial : 141 Sample Multiplier: 1

Quant Time: Sep 03 14:45:04 2023
Quant Method : I:\8270\SV106\230902lviical\DftppSV106.m
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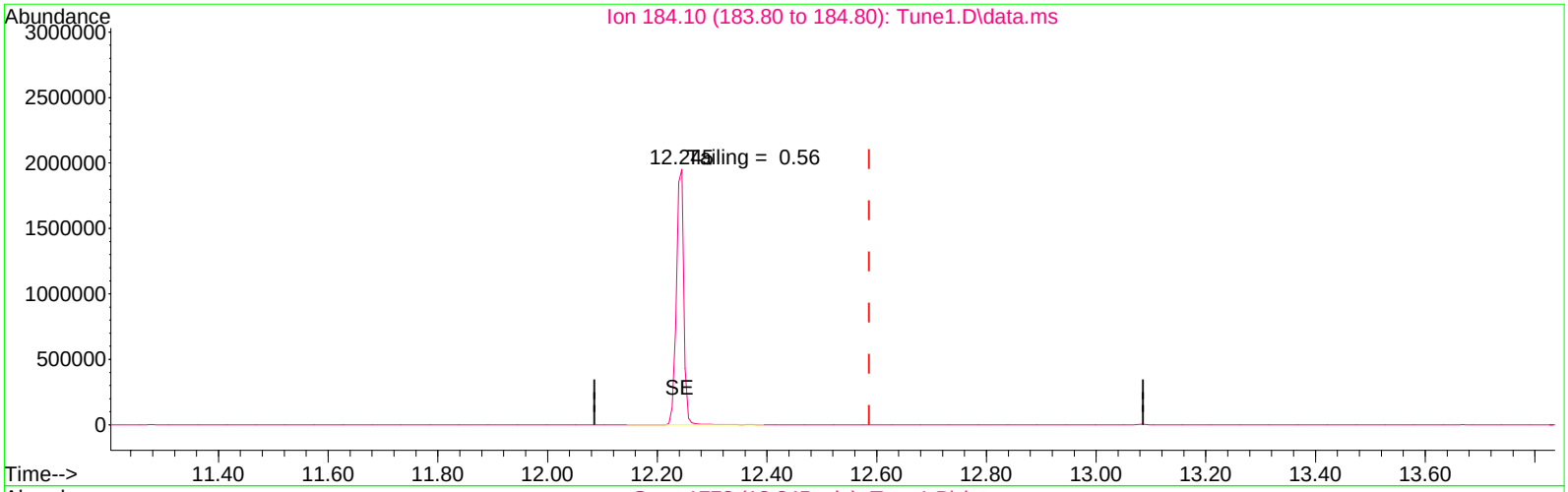
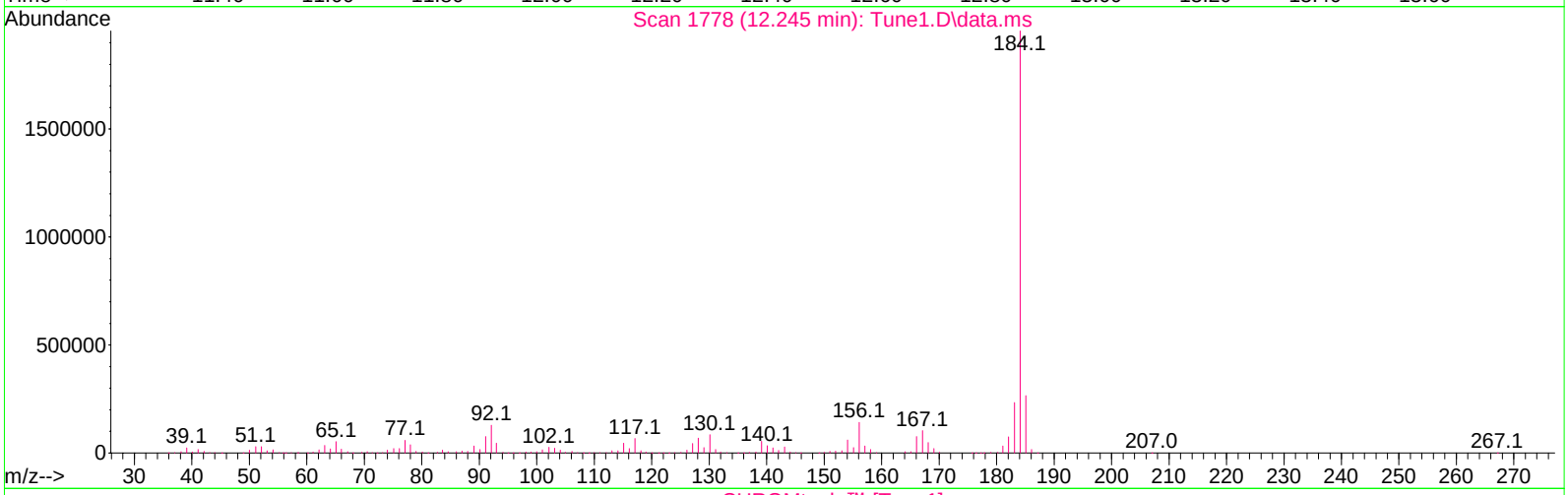
Response via : Initial Calibration





CHROMtools™ [Tune1]

(3) Benzidine (T)

12.245min (-0.341) 181.43

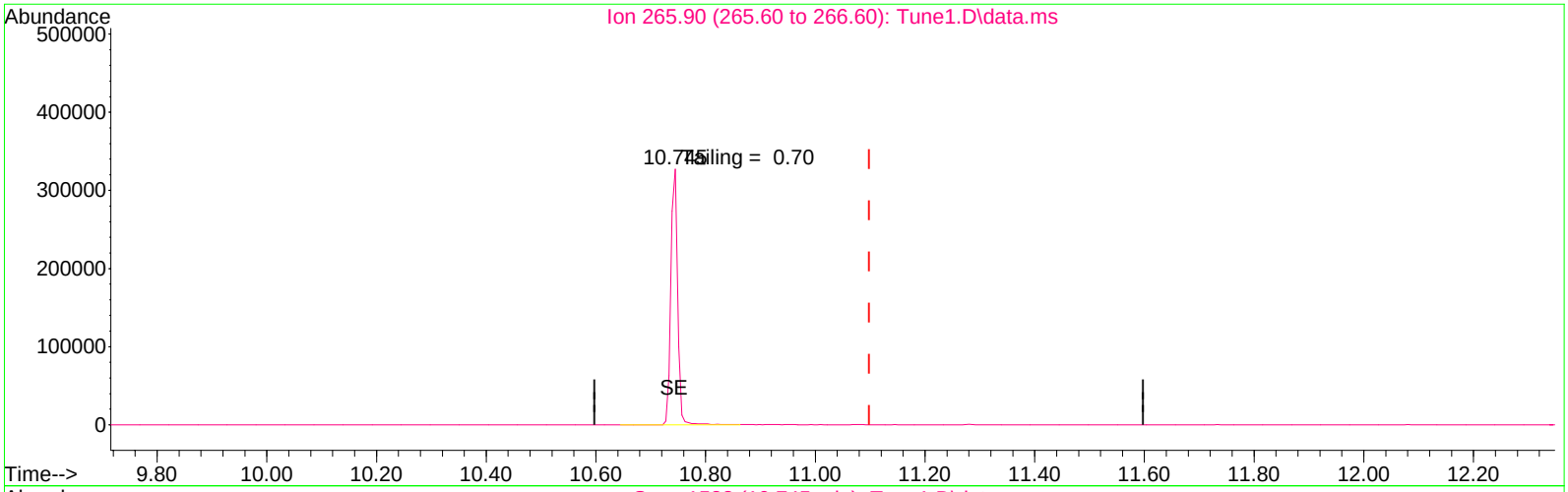
response 1846923

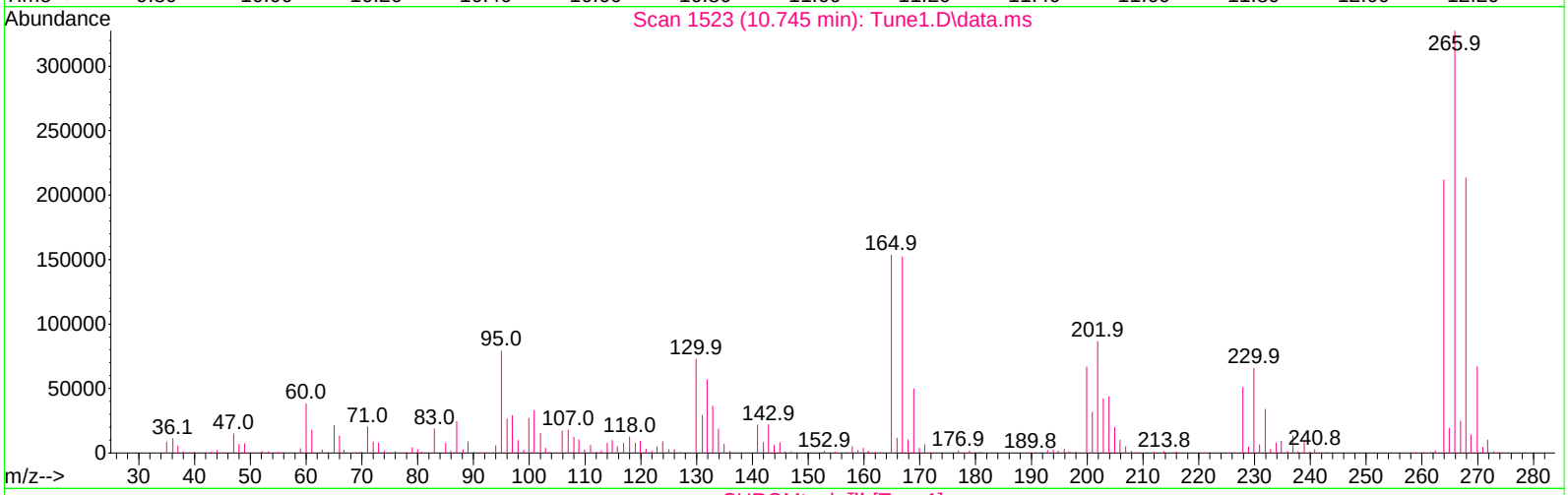
Ion	Exp%	Act%
184.10	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\8270\SV106\230902lviical\
Data File : Tune1.D
Acq On : 2 Sep 2023 11:50 am
Operator : SV106:ljg
Sample : Tune1
Misc : WG1823680,,ical
ALS Vial : 141 Sample Multiplier: 1

Quant Time: Sep 03 14:45:04 2023
Quant Method : I:\8270\SV106\230902lviical\DftppSV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Aug 23 13:06:27 2023
Response via : Initial Calibration





CHROMtools™ [Tune1]

(1) Pentachlorophenol (T)

10.745min (-0.353) 133.78

response 280989

Ion	Exp%	Act%
265.90	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\230902lviical\
Data File : ABNL10.D
Acq On : 2 Sep 2023 12:13 pm
Operator : SV106:ljg
Sample : IL1,32,,ABNL50 Lot# 10162
Misc : WG1823680,,ical
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 05 11:14:10 2023
Quant Method : I:\8270\SV106\230902lviical\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 05 11:14:02 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\230902lviical\ABNL6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) IS1_1,4-Dichlorobenzen...	6.281	152	68839	4.000 ug/ml	0.00
Standard Area 1 = 43113			Recovery = 159.67%		
34) IS1_Naphthalene-d8	7.722	136	262268	4.000 ug/ml	0.00
Standard Area 1 = 167432			Recovery = 156.64%		
62) IS1_Acenaphthene-d10	9.480	164	148566	4.000 ug/ml	0.00
Standard Area 1 = 93119			Recovery = 159.54%		
87) IS1_Phenanthrene-d10	10.910	188	285170	4.000 ug/ml	# 0.00
Standard Area 1 = 179535			Recovery = 158.84%		
103) IS1_Chrysene-d12	13.533	240	273026	4.000 ug/ml	0.01
Standard Area 1 = 164850			Recovery = 165.62%		
112) IS1_Perylene-d12	14.980	264	267180	4.000 ug/ml	0.00
Standard Area 1 = 183060			Recovery = 145.95%		
System Monitoring Compounds					
4) 2-Fluorophenol	4.245	112	990128	51.573 ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 1031.46%#		
7) Phenol-d6	5.928	99	1301506	52.624 ug/ml	0.02
Spiked Amount 5.000	Range 15 - 110		Recovery = 1052.48%#		
19) Nitrobenzene-d5	6.951	82	1210482	53.980 ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 2159.20%#		
45) 2-Fluorobiphenyl	8.845	172	2560644	51.146 ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 2045.84%#		
78) 2,4,6-Tribromophenol	10.251	330	399615	58.623 ug/ml	0.01
Spiked Amount 5.000	Range 15 - 110		Recovery = 1172.46%#		
95) 4-Terphenyl-d14	12.492	244	3367848	53.845 ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 2153.80%#		
Target Compounds					Qvalue
2) n-Nitrosodimethylamine	1.922	74	603921	51.811 ug/ml#	66
3) Pyridine	1.957	79	1005360	50.773 ug/ml#	64
5) Aniline	5.863	93	1708073	52.427 ug/ml	96
6) 2-Chlorophenol	6.016	128	1146669	52.294 ug/ml	92
8) Phenol	5.945	94	1358986	51.918 ug/ml	97
9) Bis(2-chloroethyl)ether	6.004	93	1073071	51.035 ug/ml#	84
10) 1,3-Dichlorobenzene	6.198	146	1263232	50.244 ug/ml	99
11) 1,4-Dichlorobenzene	6.298	146	1287924	49.790 ug/ml	100
12) 1,2-Dichlorobenzene	6.481	146	1239785	50.336 ug/ml	99
13) Benzyl alcohol	6.504	79	1019693	55.191 ug/ml	96
14) Bis(2-chloroisopropyl)...	6.687	45	1536644	49.619 ug/ml#	47

Data Path : I:\8270\SV106\230902lviical\
Data File : ABNL10.D
Acq On : 2 Sep 2023 12:13 pm
Operator : SV106:ljg
Sample : IL1,32,,ABNL50 Lot# 10162
Misc : WG1823680,,ical
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 05 11:14:10 2023
Quant Method : I:\8270\SV106\230902lviical\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 05 11:14:02 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\230902lviical\ABNL6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
15) 2-Methylphenol	6.681	108	1045292	53.388	ug/ml	99
16) Hexachloroethane	6.875	117	516337	51.203	ug/ml#	79
17) n-Nitrosodi-n-propylamine	6.839	70	841242	52.943	ug/ml	94
18) 3-Methylphenol/4-Methy...	6.875	108	1126431	54.845	ug/ml	100
20) Nitrobenzene	6.975	77	1201622	53.928	ug/ml	99
21) Isophorone	7.263	82	2289281	53.684	ug/ml	94
22) 2-Nitrophenol	7.328	139	534264	59.953	ug/ml#	92
23) 2,4-Dimethylphenol	7.439	107	1139601	51.698	ug/ml	97
24) Bis(2-chloroethoxy)met...	7.534	93	1394799	52.208	ug/ml#	98
25) 2,4-Dichlorophenol	7.598	162	1025952	55.423	ug/ml	97
26) 1,2,4-Trichlorobenzene	7.675	180	1091335	51.348	ug/ml	99
35) Naphthalene	7.739	128	3457795	52.299	ug/ml	100
36) Benzoic Acid	7.651	105	895566	51.199	ug/ml	99
37) 4-Chloroaniline	7.828	65	453951	52.439	ug/ml	87
38) Hexachlorobutadiene	7.910	225	664388	49.278	ug/ml	99
39) p-Chloro-m-cresol	8.363	107	1081340	56.580	ug/ml	93
40) 2-Methylnaphthalene	8.457	142	2207672	52.446	ug/ml	96
41) 1-Methylnaphthalene	8.551	115	823747	52.181	ug/ml	84
42) Hexachlorocyclopentadiene	8.633	237	767643	53.394	ug/ml	99
43) 2,4,6-Trichlorophenol	8.757	196	792184	57.925	ug/ml	97
44) 2,4,5-Trichlorophenol	8.786	196	789186	53.650	ug/ml	99
46) 2-Chloronaphthalene	8.939	162	2252799	51.350	ug/ml	99
47) 2-Nitroaniline	9.057	138	682887	51.590	ug/ml	92
48) 1,4-Dinitrobenzene	9.192	168	314761	52.007	ug/ml	87
49) 1,3-Dinitrobenzene	9.269	168	365590	51.534	ug/ml#	1
50) Dimethyl phthalate	9.275	163	2691227	52.128	ug/ml#	98
51) Acenaphthylene	9.339	152	3738373	52.943	ug/ml	99
52) 2,6-Dinitrotoluene	9.310	165	546122	51.245	ug/ml#	87
53) 1,2-Dinitrobenzene	9.357	168	228450	54.994	ug/ml#	1
63) 3-Nitroaniline	9.469	138	615589	57.925	ug/ml	98
64) Acenaphthene	9.516	154	2162049	51.489	ug/ml	94
65) 2,4-Dinitrophenol	9.563	184	306118	52.013	ug/ml	94
66) Dibenzofuran	9.686	168	3227444	51.411	ug/ml#	72
67) 2,4-Dinitrotoluene	9.698	165	764169	51.892	ug/ml	98
68) 4-Nitrophenol	9.663	65	574258	52.392	ug/ml#	28
69) 2,3,5,6-Tetrachlorophenol	9.775	232	681155	56.436	ug/ml	99
70) 2,3,4,6-Tetrachlorophenol	9.816	232	674873	53.886	ug/ml	97
71) Diethyl phthalate	9.963	149	2763567	52.586	ug/ml	99
72) Fluorene	10.016	166	2577636	51.966	ug/ml	96
73) 4-Chlorophenyl phenyl ...	10.039	204	1199217	50.665	ug/ml	98

Data Path : I:\8270\SV106\230902lviical\
Data File : ABNL10.D
Acq On : 2 Sep 2023 12:13 pm
Operator : SV106:ljg
Sample : IL1,32,,ABNL50 Lot# 10162
Misc : WG1823680,,ical
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 05 11:14:10 2023
Quant Method : I:\8270\SV106\230902lviical\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 05 11:14:02 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\230902lviical\ABNL6.D
Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
74)	4-Nitroaniline	10.069	138	611018	56.961	ug/ml	#	86
75)	4,6-Dinitro-o-cresol	10.092	198	410076	52.494	ug/ml	#	77
76)	NDPA/DPA	10.157	169	2171776	52.037	ug/ml		98
77)	Azobenzene	10.192	77	2550386	52.052	ug/ml		98
79)	4-Bromophenyl phenyl e...	10.504	248	703040	51.038	ug/ml		93
80)	Hexachlorobenzene	10.557	284	816721	50.938	ug/ml	#	88
81)	Pentachlorophenol	10.745	266	541382	52.276	ug/ml		99
88)	Phenanthrene	10.939	178	4029150	51.880	ug/ml		99
89)	Anthracene	10.986	178	4080478	52.789	ug/ml		100
90)	Carbazole	11.157	167	3771487	53.395	ug/ml		100
91)	Di-n-butylphthalate	11.551	149	5101143	56.394	ug/ml		99
92)	Fluoranthene	12.086	202	4470293	53.842	ug/ml	#	93
93)	Benzidine	12.245	184	2964861	54.041	ug/ml	#	95
94)	Pyrene	12.298	202	4688025	53.330	ug/ml		99
96)	Butyl benzyl phthalate	13.016	149	2284615	59.188	ug/ml		92
104)	Benzo(a)anthracene	13.521	228	4701148	51.960	ug/ml		99
105)	3,3'-Dichlorobenzidine	13.527	252	1793030	55.688	ug/ml	#	97
106)	Chrysene	13.563	228	4148905	49.392	ug/ml		99
107)	Bis(2-ethylhexyl)phtha...	13.651	149	3423593	56.443	ug/ml	#	91
108)	Di-n-octylphthalate	14.327	149	5924592	57.898	ug/ml	#	72
109)	Benzo(b)fluoranthene	14.621	252	4280897	49.528	ug/ml	#	95
110)	Benzo(k)fluoranthene	14.651	252	4247583M3	51.267	ug/ml		
111)	Benzo(a)pyrene	14.933	252	3780405	51.122	ug/ml	#	94
113)	Indeno(1,2,3-cd)pyrene	15.951	276	3340791M6	53.517	ug/mL		
114)	Dibenzo(a,h)anthracene	15.974	278	3584378	53.691	ug/ml	#	90
115)	Benzo(ghi)perylene	16.186	276	3154914	47.640	ug/ml	#	88

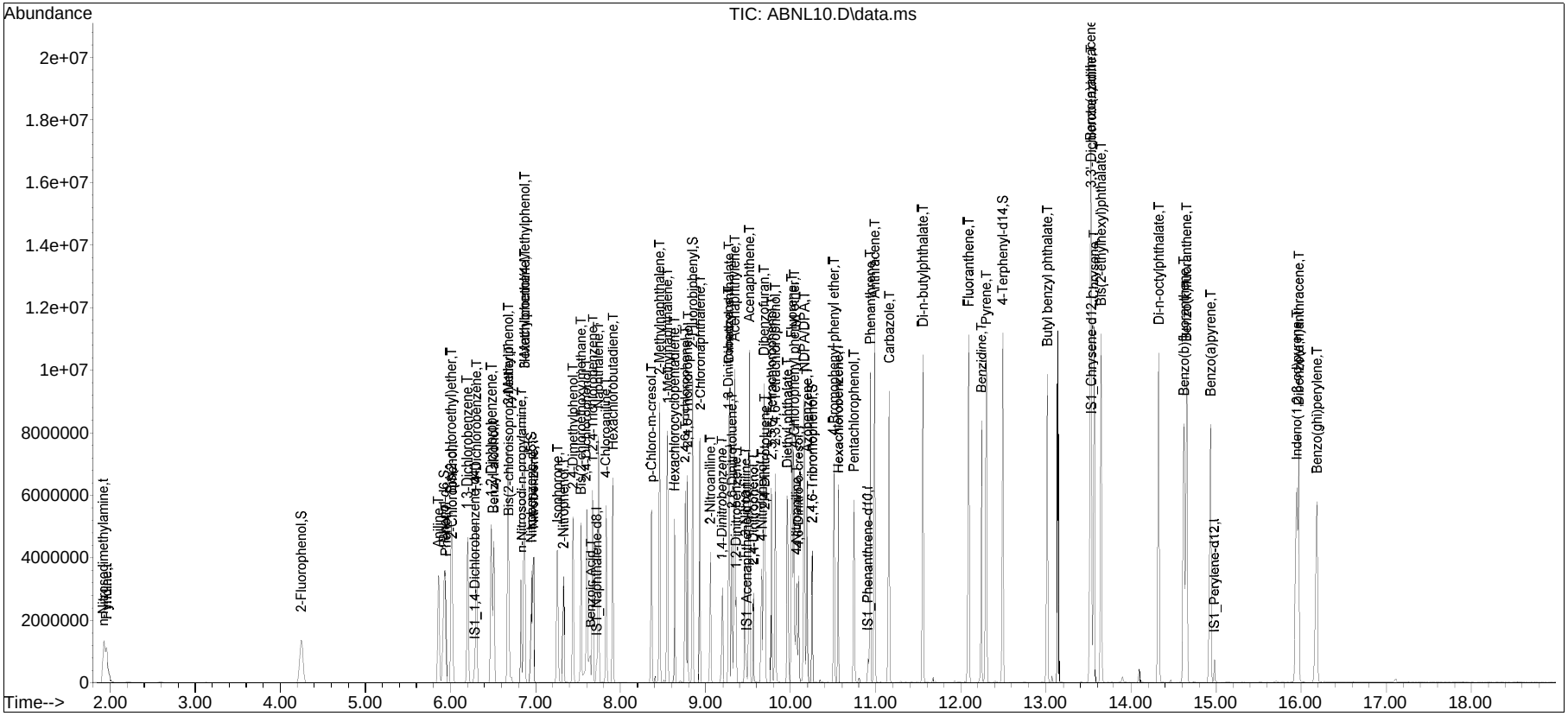
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\230902lviical\
Data File : ABNL10.D
Acq On : 2 Sep 2023 12:13 pm
Operator : SV106:ljg
Sample : IL1,32,,ABNL50 Lot# 10162
Misc : WG1823680,,ical
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 05 11:14:10 2023
Quant Method : I:\8270\SV106\230902lviical\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 05 11:14:02 2023
Response via : Initial Calibration

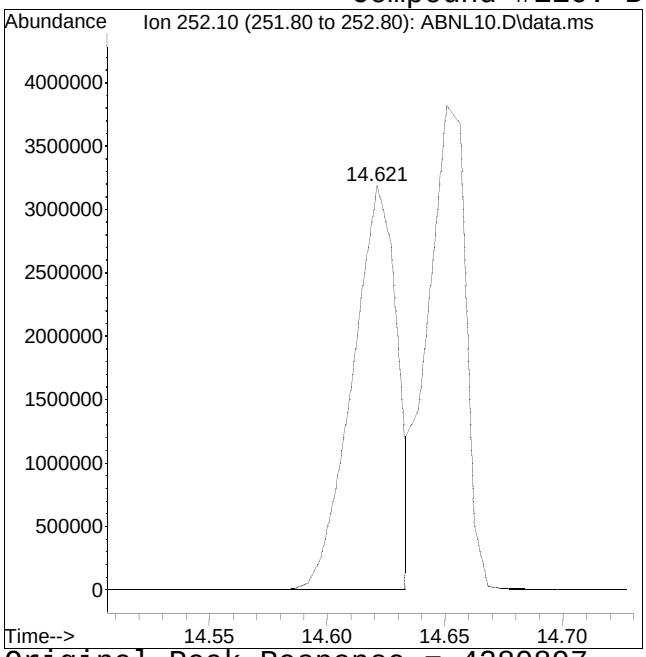
Sub List : ABNical - ABN ical sublistiical\ABNL6.D•

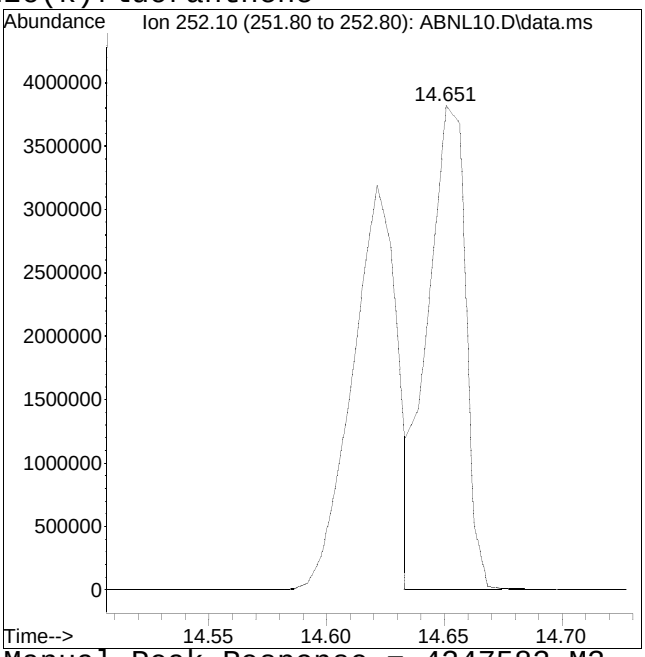


Manual Integration Report

Data Path : I:\8270\SV106\230902lviicaQMethod : FS230902SV106.m
Data File : ABNL10.D Operator : SV106:ljg
Date Inj'd : 9/2/2023 12:13 pm Instrument : SV 106
Sample : IL1,32,,ABNL50 Lot# 10162 Quant Date : 9/5/2023 11:14 am

Compound #110: Benzo(k)fluoranthene



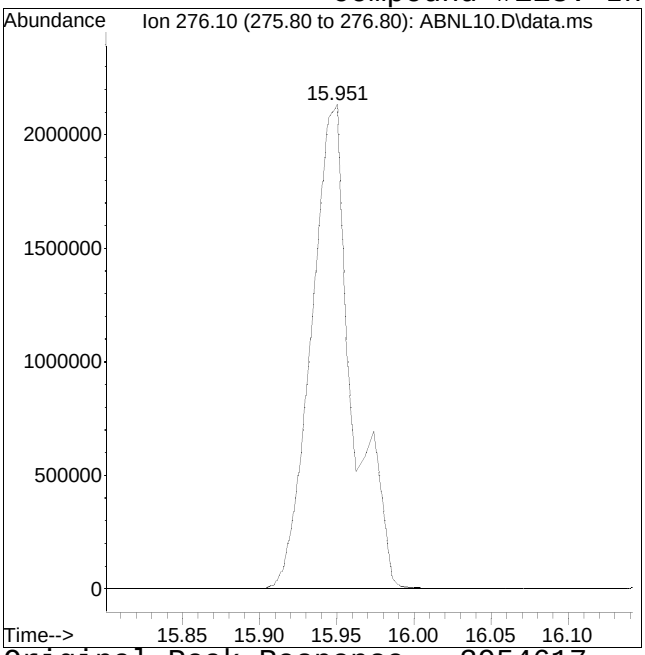


Original Peak Response = 4280897 Manual Peak Response = 4247583 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

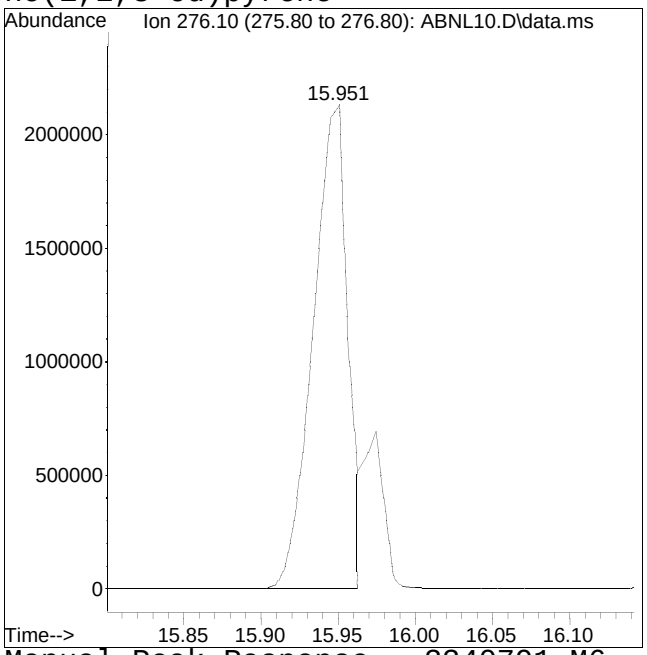
Manual Integration Report

Data Path : I:\8270\SV106\230902lviicaQMethod : FS230902SV106.m
Data File : ABNL10.D Operator : SV106:ljg
Date Inj'd : 9/2/2023 12:13 pm Instrument : SV 106
Sample : IL1,32,,ABNL50 Lot# 10162 Quant Date : 9/5/2023 11:14 am

Compound #113: Indeno(1,2,3-cd)pyrene



Original Peak Response = 3954617



Manual Peak Response = 3340791 M6

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\230902lviical\
Data File : ABNL9.D
Acq On : 2 Sep 2023 12:37 pm
Operator : SV106:ljg
Sample : IL2,32,,ABNL35 Lot# 10163
Misc : WG1823680,,ical
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 05 11:15:21 2023
Quant Method : I:\8270\SV106\230902lviical\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 05 11:15:14 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\230902lviical\ABNL6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) IS1_1,4-Dichlorobenzen...	6.281	152	44310	4.000 ug/ml	0.00
Standard Area 1 = 43113			Recovery = 102.78%		
34) IS1_Naphthalene-d8	7.716	136	165823	4.000 ug/ml	# 0.00
Standard Area 1 = 167432			Recovery = 99.04%		
62) IS1_Acenaphthene-d10	9.475	164	94213	4.000 ug/ml	0.00
Standard Area 1 = 93119			Recovery = 101.17%		
87) IS1_Phenanthrene-d10	10.910	188	176438	4.000 ug/ml	# 0.00
Standard Area 1 = 179535			Recovery = 98.27%		
103) IS1_Chrysene-d12	13.527	240	170931	4.000 ug/ml	0.00
Standard Area 1 = 164850			Recovery = 103.69%		
112) IS1_Perylene-d12	14.974	264	175453	4.000 ug/ml	0.00
Standard Area 1 = 183060			Recovery = 95.84%		
System Monitoring Compounds					
4) 2-Fluorophenol	4.246	112	444458	35.966 ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 719.32%#		
7) Phenol-d6	5.916	99	568211	35.693 ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 713.86%#		
19) Nitrobenzene-d5	6.945	82	521667	36.141 ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 1445.64%#		
45) 2-Fluorobiphenyl	8.845	172	1085958	34.306 ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 1372.24%#		
78) 2,4,6-Tribromophenol	10.245	330	165921	38.383 ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 767.66%#		
95) 4-Terphenyl-d14	12.486	244	1397533	36.113 ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 1444.52%#		
Target Compounds					Qvalue
2) n-Nitrosodimethylamine	1.922	74	262053	34.927 ug/ml#	69
3) Pyridine	1.952	79	457209	35.872 ug/ml#	66
5) Aniline	5.863	93	737916	35.188 ug/ml	96
6) 2-Chlorophenol	6.010	128	504651	35.755 ug/ml	92
8) Phenol	5.934	94	590305	35.036 ug/ml	98
9) Bis(2-chloroethyl)ether	5.998	93	467675	34.555 ug/ml#	83
10) 1,3-Dichlorobenzene	6.198	146	562485	34.757 ug/ml	99
11) 1,4-Dichlorobenzene	6.298	146	571566	34.328 ug/ml	99
12) 1,2-Dichlorobenzene	6.481	146	543876	34.305 ug/ml	99
13) Benzyl alcohol	6.498	79	433112	36.419 ug/ml	96
14) Bis(2-chloroisopropyl)...	6.681	45	676298	33.927 ug/ml#	48

Data Path : I:\8270\SV106\230902lviical\
Data File : ABNL9.D
Acq On : 2 Sep 2023 12:37 pm
Operator : SV106:ljg
Sample : IL2,32,,ABNL35 Lot# 10163
Misc : WG1823680,,ical
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 05 11:15:21 2023
Quant Method : I:\8270\SV106\230902lviical\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 05 11:15:14 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\230902lviical\ABNL6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
15) 2-Methylphenol	6.675	108	452418	35.899	ug/ml	100
16) Hexachloroethane	6.875	117	226635	34.916	ug/ml#	78
17) n-Nitrosodi-n-propylamine	6.828	70	358459	35.048	ug/ml	93
18) 3-Methylphenol/4-Methy...	6.869	108	475622	35.977	ug/ml	99
20) Nitrobenzene	6.969	77	523518	36.502	ug/ml	99
21) Isophorone	7.251	82	965958	35.191	ug/ml	95
22) 2-Nitrophenol	7.328	139	225197	39.260	ug/ml#	92
23) 2,4-Dimethylphenol	7.440	107	507914	35.797	ug/ml	97
24) Bis(2-chloroethoxy)met...	7.528	93	591617	34.403	ug/ml	98
25) 2,4-Dichlorophenol	7.592	162	427993	35.920	ug/ml	97
26) 1,2,4-Trichlorobenzene	7.675	180	469966	34.353	ug/ml	99
35) Naphthalene	7.739	128	1478375	35.366	ug/ml	100
36) Benzoic Acid	7.598	105	369659	33.986	ug/ml	97
37) 4-Chloroaniline	7.828	65	193316	35.319	ug/ml	87
38) Hexachlorobutadiene	7.910	225	289211	33.927	ug/ml	99
39) p-Chloro-m-cresol	8.357	107	452756	37.469	ug/ml	95
40) 2-Methylnaphthalene	8.457	142	929772	34.934	ug/ml	95
41) 1-Methylnaphthalene	8.551	115	348693	34.935	ug/ml	84
42) Hexachlorocyclopentadiene	8.634	237	337235	37.099	ug/ml	99
43) 2,4,6-Trichlorophenol	8.757	196	324217	37.495	ug/ml	98
44) 2,4,5-Trichlorophenol	8.786	196	347593	37.374	ug/ml	98
46) 2-Chloronaphthalene	8.934	162	955203	34.436	ug/ml	99
47) 2-Nitroaniline	9.051	138	286465	34.381	ug/ml	93
48) 1,4-Dinitrobenzene	9.186	168	129466	34.144	ug/ml	88
49) 1,3-Dinitrobenzene	9.263	168	154922	34.846	ug/ml#	1
50) Dimethyl phthalate	9.263	163	1130294	34.627	ug/ml#	98
51) Acenaphthylene	9.334	152	1572037	35.212	ug/ml	100
52) 2,6-Dinitrotoluene	9.304	165	230216	34.295	ug/ml#	86
53) 1,2-Dinitrobenzene	9.345	168	97015	36.937	ug/ml#	1
63) 3-Nitroaniline	9.457	138	258423	38.346	ug/ml	98
64) Acenaphthene	9.510	154	902858	33.906	ug/ml	92
65) 2,4-Dinitrophenol	9.557	184	127640	34.584	ug/ml	94
66) Dibenzofuran	9.681	168	1375479	34.551	ug/ml	100
67) 2,4-Dinitrotoluene	9.692	165	320470	34.478	ug/ml	97
68) 4-Nitrophenol	9.651	65	234839	33.942	ug/ml#	89
69) 2,3,5,6-Tetrachlorophenol	9.769	232	287702	37.589	ug/ml	99
70) 2,3,4,6-Tetrachlorophenol	9.816	232	283683	35.719	ug/ml	97
71) Diethyl phthalate	9.957	149	1172963	35.196	ug/ml	99
72) Fluorene	10.010	166	1095787	34.836	ug/ml	97
73) 4-Chlorophenyl phenyl ...	10.033	204	502474	33.476	ug/ml	97

Data Path : I:\8270\SV106\230902lviical\
Data File : ABNL9.D
Acq On : 2 Sep 2023 12:37 pm
Operator : SV106:ljg
Sample : IL2,32,,ABNL35 Lot# 10163
Misc : WG1823680,,ical
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 05 11:15:21 2023
Quant Method : I:\8270\SV106\230902lviical\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 05 11:15:14 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\230902lviical\ABNL6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
74) 4-Nitroaniline	10.051	138	260303	38.266	ug/ml#	85
75) 4,6-Dinitro-o-cresol	10.081	198	167531	34.234	ug/ml#	71
76) NDPA/DPA	10.151	169	924194	34.919	ug/ml	98
77) Azobenzene	10.186	77	1071348	34.480	ug/ml	98
79) 4-Bromophenyl phenyl e...	10.504	248	298584	34.181	ug/ml	93
80) Hexachlorobenzene	10.551	284	341847	33.621	ug/ml#	87
81) Pentachlorophenol	10.745	266	221765	33.927	ug/ml	99
88) Phenanthrene	10.933	178	1678854	34.939	ug/ml	100
89) Anthracene	10.980	178	1709466	35.744	ug/ml	100
90) Carbazole	11.151	167	1619102	37.049	ug/ml	100
91) Di-n-butylphthalate	11.545	149	2136624	38.178	ug/ml	99
92) Fluoranthene	12.080	202	1881345	36.624	ug/ml#	93
93) Benzidine	12.239	184	1341131	39.509	ug/ml#	95
94) Pyrene	12.292	202	1963796	36.107	ug/ml	100
96) Butyl benzyl phthalate	13.010	149	973935	40.782	ug/ml	91
104) Benzo(a)anthracene	13.516	228	1991361	35.156	ug/ml	100
105) 3,3'-Dichlorobenzidine	13.521	252	772420	38.319	ug/ml#	98
106) Chrysene	13.551	228	1798650	34.202	ug/ml	99
107) Bis(2-ethylhexyl)phtha...	13.645	149	1454534	38.303	ug/ml#	92
108) Di-n-octylphthalate	14.321	149	2568823	40.098	ug/ml#	72
109) Benzo(b)fluoranthene	14.616	252	1950128	36.038	ug/ml#	95
110) Benzo(k)fluoranthene	14.645	252	1773297	34.187	ug/ml#	94
111) Benzo(a)pyrene	14.921	252	1668845	36.047	ug/ml#	94
113) Indeno(1,2,3-cd)pyrene	15.939	276	1624846M6	39.637	ug/mL	
114) Dibenzo(a,h)anthracene	15.962	278	1673407	38.171	ug/ml#	91
115) Benzo(ghi)perylene	16.174	276	1599602	36.782	ug/ml#	88

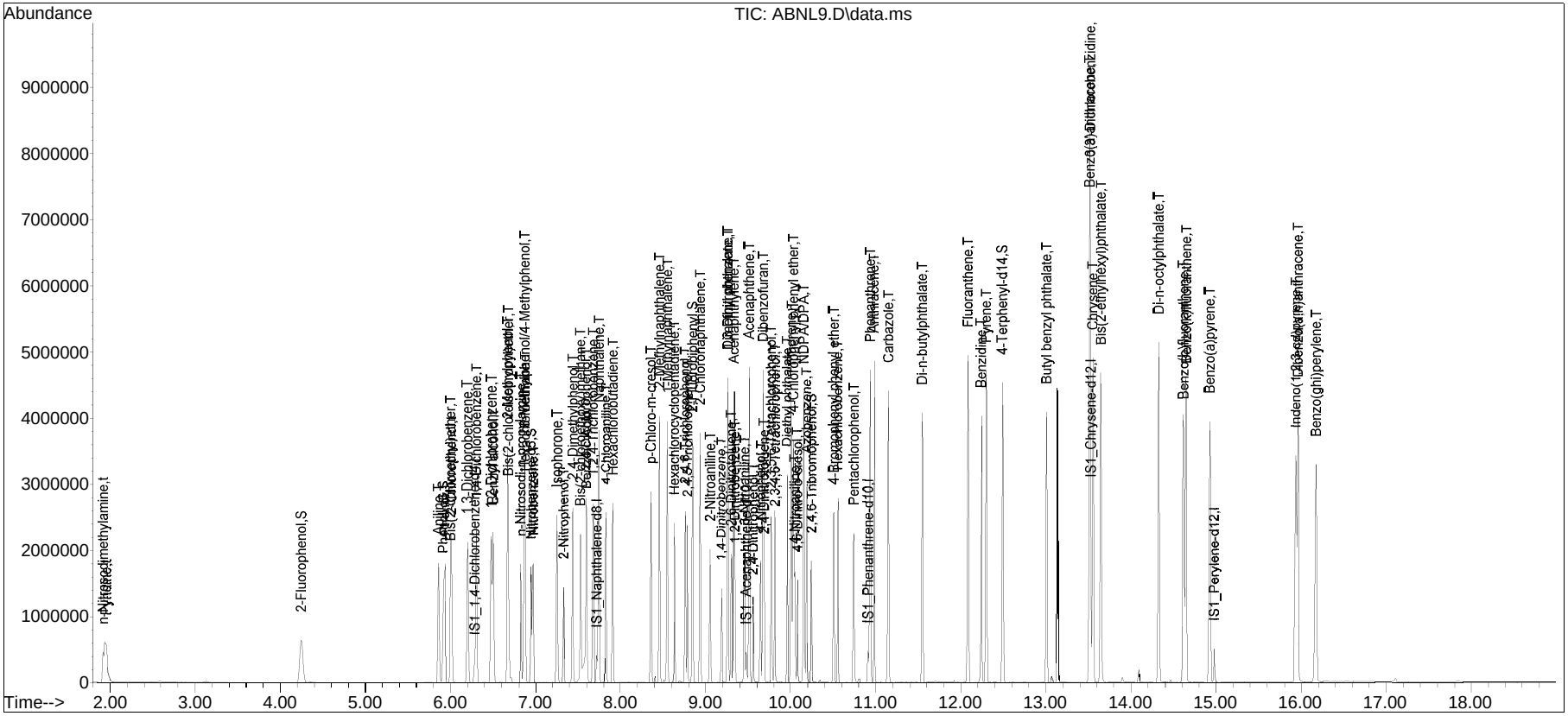
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\230902lviical\
Data File : ABNL9.D
Acq On : 2 Sep 2023 12:37 pm
Operator : SV106:ljg
Sample : IL2,32,,ABNL35 Lot# 10163
Misc : WG1823680,,ical
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 05 11:15:21 2023
Quant Method : I:\8270\SV106\230902lviical\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 05 11:15:14 2023
Response via : Initial Calibration

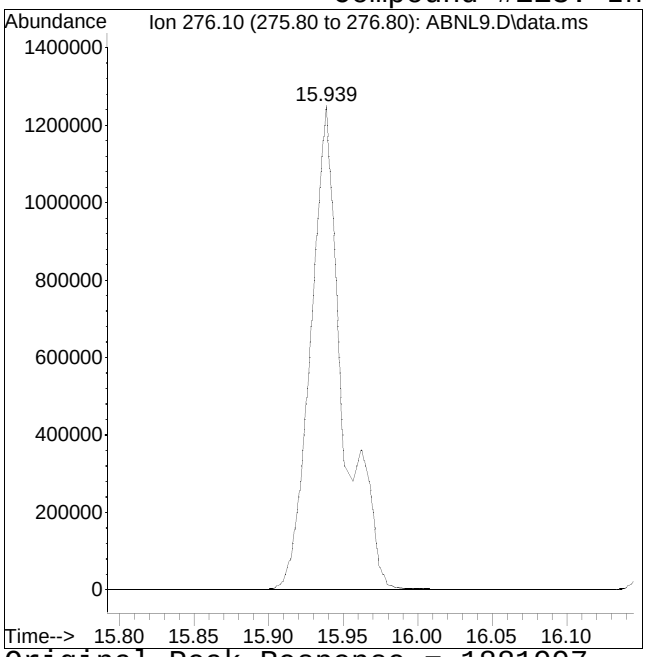
Sub List : ABNical - ABN ical sublistiical\ABNL6.D•



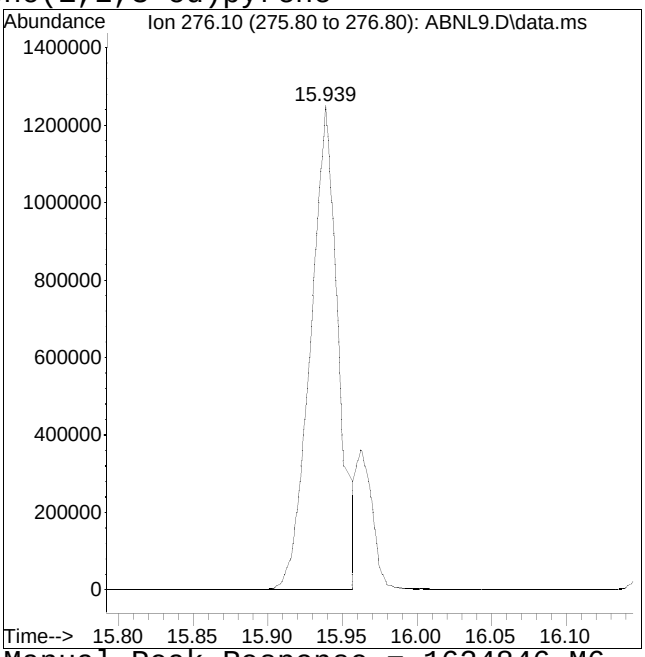
Manual Integration Report

Data Path : I:\8270\SV106\230902lviicaQMethod : FS230902SV106.m
Data File : ABNL9.D Operator : SV106:ljg
Date Inj'd : 9/2/2023 12:37 pm Instrument : SV 106
Sample : IL2,32,,ABNL35 Lot# 10163 Quant Date : 9/5/2023 11:15 am

Compound #113: Indeno(1,2,3-cd)pyrene



Original Peak Response = 1881997



Manual Peak Response = 1624846 M6

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\230902lviical\
Data File : ABNL8.D
Acq On : 2 Sep 2023 1:01 pm
Operator : SV106:ljg
Sample : IL3,32,,ABNL15 Lot# 10164
Misc : WG1823680,,ical
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 05 11:15:12 2023
Quant Method : I:\8270\SV106\230902lviical\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 05 11:15:05 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\230902lviical\ABNL6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	6.281	152	39387	4.000	ug/ml	# 0.00
Standard Area 1 = 43113			Recovery = 91.36%			
34) IS1_Naphthalene-d8	7.716	136	148209	4.000	ug/ml	0.00
Standard Area 1 = 167432			Recovery = 88.52%			
62) IS1_Acenaphthene-d10	9.475	164	84980	4.000	ug/ml	0.00
Standard Area 1 = 93119			Recovery = 91.26%			
87) IS1_Phenanthrene-d10	10.904	188	162165	4.000	ug/ml	# 0.00
Standard Area 1 = 179535			Recovery = 90.33%			
103) IS1_Chrysene-d12	13.521	240	149815	4.000	ug/ml	0.00
Standard Area 1 = 164850			Recovery = 90.88%			
112) IS1_Perylene-d12	14.968	264	161040	4.000	ug/ml	0.00
Standard Area 1 = 183060			Recovery = 87.97%			
System Monitoring Compounds						
4) 2-Fluorophenol	4.251	112	174595	15.894	ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 317.88%#			
7) Phenol-d6	5.910	99	215466	15.226	ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 304.52%#			
19) Nitrobenzene-d5	6.945	82	199124	15.520	ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 620.80%#			
45) 2-Fluorobiphenyl	8.839	172	428605	15.149	ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 605.96%#			
78) 2,4,6-Tribromophenol	10.245	330	63089	16.180	ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 323.60%#			
95) 4-Terphenyl-d14	12.486	244	537088	15.100	ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 604.00%#			
Target Compounds						Qvalue
2) n-Nitrosodimethylamine	1.922	74	101211	15.176	ug/ml#	68
3) Pyridine	1.952	79	182078	16.071	ug/ml#	65
5) Aniline	5.863	93	283242	15.195	ug/ml	96
6) 2-Chlorophenol	6.010	128	191941	15.299	ug/ml	93
8) Phenol	5.928	94	229092	15.297	ug/ml	96
9) Bis(2-chloroethyl)ether	5.998	93	180311	14.988	ug/ml#	83
10) 1,3-Dichlorobenzene	6.198	146	217035	15.087	ug/ml	99
11) 1,4-Dichlorobenzene	6.298	146	220147	14.875	ug/ml	100
12) 1,2-Dichlorobenzene	6.481	146	210026	14.903	ug/ml	99
13) Benzyl alcohol	6.498	79	165647	15.670	ug/ml	96
14) Bis(2-chloroisopropyl)...	6.681	45	268862	15.173	ug/ml#	51

Data Path : I:\8270\SV106\230902lviical\
Data File : ABNL8.D
Acq On : 2 Sep 2023 1:01 pm
Operator : SV106:ljg
Sample : IL3,32,,ABNL15 Lot# 10164
Misc : WG1823680,,ical
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 05 11:15:12 2023
Quant Method : I:\8270\SV106\230902lviical\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 05 11:15:05 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\230902lviical\ABNL6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
15) 2-Methylphenol	6.675	108	174868	15.610	ug/ml	98
16) Hexachloroethane	6.875	117	87032	15.084	ug/ml#	78
17) n-Nitrosodi-n-propylamine	6.822	70	136228	14.984	ug/ml	93
18) 3-Methylphenol/4-Methy...	6.863	108	182861	15.561	ug/ml	99
20) Nitrobenzene	6.963	77	200792	15.750	ug/ml	97
21) Isophorone	7.251	82	373793	15.320	ug/ml	95
22) 2-Nitrophenol	7.328	139	84641	16.600	ug/ml#	91
23) 2,4-Dimethylphenol	7.434	107	196134	15.551	ug/ml	97
24) Bis(2-chloroethoxy)met...	7.528	93	233863	15.299	ug/ml	99
25) 2,4-Dichlorophenol	7.592	162	168513	15.910	ug/ml	98
26) 1,2,4-Trichlorobenzene	7.675	180	183763	15.111	ug/ml	98
35) Naphthalene	7.739	128	570099	15.259	ug/ml	99
36) Benzoic Acid	7.557	105	136543	14.994	ug/ml	98
37) 4-Chloroaniline	7.822	65	75700	15.474	ug/ml	88
38) Hexachlorobutadiene	7.910	225	114489	15.027	ug/ml	98
39) p-Chloro-m-cresol	8.357	107	174800	16.185	ug/ml	94
40) 2-Methylnaphthalene	8.457	142	363087	15.264	ug/ml	95
41) 1-Methylnaphthalene	8.551	115	138136	15.484	ug/ml	83
42) Hexachlorocyclopentadiene	8.634	237	127554	15.700	ug/ml	98
43) 2,4,6-Trichlorophenol	8.757	196	123184	15.939	ug/ml	99
44) 2,4,5-Trichlorophenol	8.781	196	134180	16.142	ug/ml	97
46) 2-Chloronaphthalene	8.934	162	374768	15.117	ug/ml	99
47) 2-Nitroaniline	9.051	138	108579	14.842	ug/ml	93
48) 1,4-Dinitrobenzene	9.181	168	47498	14.540	ug/ml	90
49) 1,3-Dinitrobenzene	9.257	168	54984	14.397	ug/ml#	1
50) Dimethyl phthalate	9.257	163	450072	15.427	ug/ml#	98
51) Acenaphthylene	9.333	152	621329	15.571	ug/ml	99
52) 2,6-Dinitrotoluene	9.298	165	89361	15.112	ug/ml#	85
53) 1,2-Dinitrobenzene	9.339	168	38566	16.429	ug/ml#	1
63) 3-Nitroaniline	9.451	138	99446	16.359	ug/ml	97
64) Acenaphthene	9.504	154	352685	14.684	ug/ml	93
65) 2,4-Dinitrophenol	9.551	184	44061	13.929	ug/ml	96
66) Dibenzofuran	9.681	168	532862	14.839	ug/ml	98
67) 2,4-Dinitrotoluene	9.686	165	118257	14.385	ug/ml	95
68) 4-Nitrophenol	9.645	65	88187	14.388	ug/ml#	87
69) 2,3,5,6-Tetrachlorophenol	9.769	232	110628	16.024	ug/ml	98
70) 2,3,4,6-Tetrachlorophenol	9.810	232	110706	15.454	ug/ml	97
71) Diethyl phthalate	9.951	149	444677	14.793	ug/ml	99
72) Fluorene	10.010	166	428382	15.098	ug/ml	97
73) 4-Chlorophenyl phenyl ...	10.033	204	198916	14.692	ug/ml	99

Data Path : I:\8270\SV106\230902lviical\
Data File : ABNL8.D
Acq On : 2 Sep 2023 1:01 pm
Operator : SV106:ljg
Sample : IL3,32,,ABNL15 Lot# 10164
Misc : WG1823680,,ical
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 05 11:15:12 2023
Quant Method : I:\8270\SV106\230902lviical\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 05 11:15:05 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\230902lviical\ABNL6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
74) 4-Nitroaniline	10.039	138	96505	15.728	ug/ml#	84
75) 4,6-Dinitro-o-cresol	10.075	198	58329	13.932	ug/ml#	72
76) NDPA/DPA	10.151	169	361547	15.145	ug/ml	98
77) Azobenzene	10.180	77	420644	15.009	ug/ml	98
79) 4-Bromophenyl phenyl e...	10.498	248	116954	14.843	ug/ml	92
80) Hexachlorobenzene	10.545	284	132100	14.404	ug/ml#	88
81) Pentachlorophenol	10.739	266	83555	14.433	ug/ml	98
88) Phenanthrene	10.928	178	650045	14.719	ug/ml	99
89) Anthracene	10.980	178	655793	14.919	ug/ml	99
90) Carbazole	11.145	167	611710	15.229	ug/ml	100
91) Di-n-butylphthalate	11.545	149	800541	15.563	ug/ml	99
92) Fluoranthene	12.080	202	724443	15.344	ug/ml#	93
93) Benzidine	12.233	184	515181	16.513	ug/ml#	95
94) Pyrene	12.292	202	753957	15.083	ug/ml	100
96) Butyl benzyl phthalate	13.010	149	354416	16.147	ug/ml	90
104) Benzo(a)anthracene	13.510	228	742019	14.946	ug/ml	100
105) 3,3'-Dichlorobenzidine	13.516	252	284024	16.076	ug/ml#	98
106) Chrysene	13.551	228	679622	14.745	ug/ml	99
107) Bis(2-ethylhexyl)phtha...	13.645	149	541988	16.284	ug/ml#	91
108) Di-n-octylphthalate	14.321	149	932898	16.614	ug/ml#	73
109) Benzo(b)fluoranthene	14.610	252	738969	15.581	ug/ml#	95
110) Benzo(k)fluoranthene	14.633	252	684561	15.058	ug/ml#	94
111) Benzo(a)pyrene	14.915	252	630908	15.548	ug/ml#	94
113) Indeno(1,2,3-cd)pyrene	15.927	276	591376M6	15.717	ug/mL	
114) Dibenzo(a,h)anthracene	15.957	278	642310	15.963	ug/ml#	91
115) Benzo(ghi)perylene	16.162	276	617081	15.460	ug/ml#	88

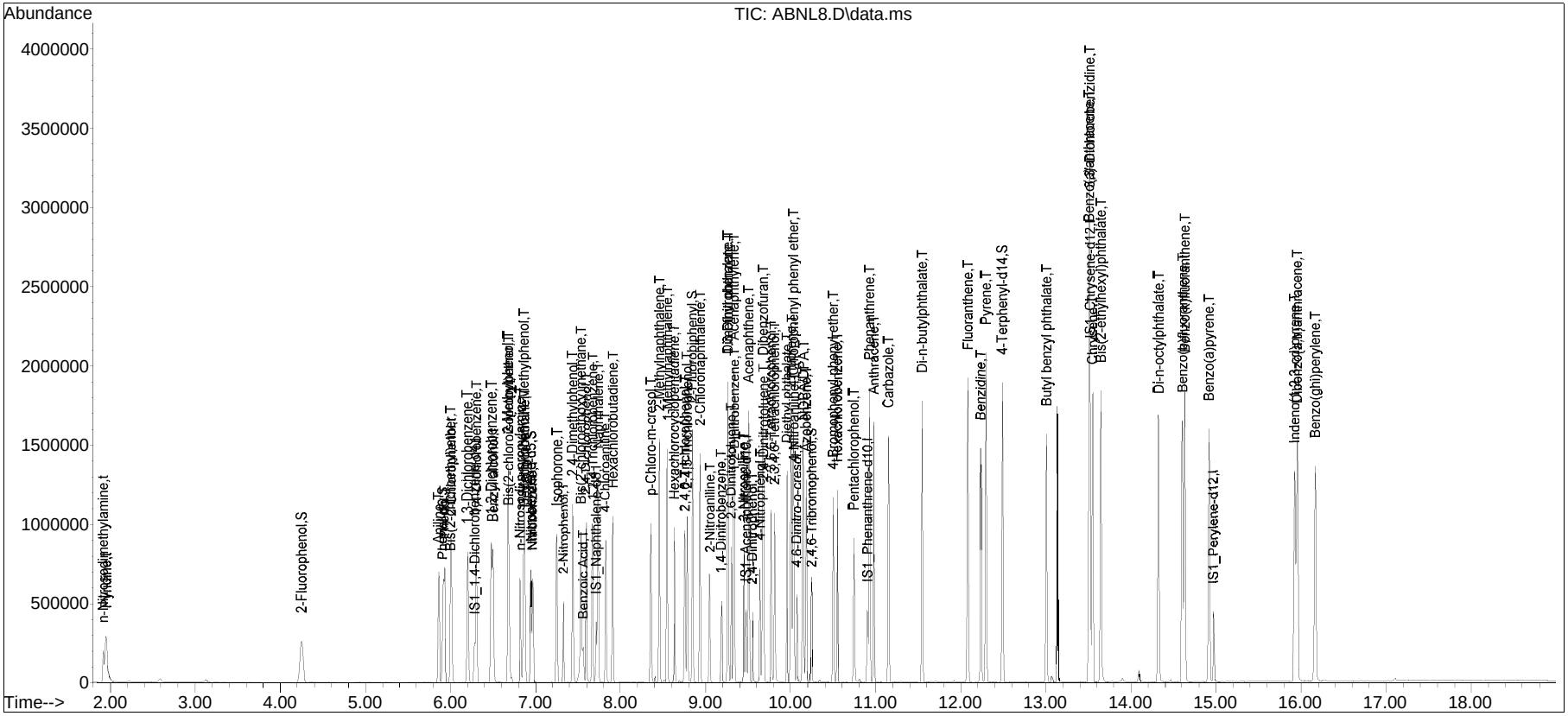
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\230902lviical\
Data File : ABNL8.D
Acq On : 2 Sep 2023 1:01 pm
Operator : SV106:ljg
Sample : IL3,32,,ABNL15 Lot# 10164
Misc : WG1823680,,ical
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 05 11:15:12 2023
Quant Method : I:\8270\SV106\230902lviical\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 05 11:15:05 2023
Response via : Initial Calibration

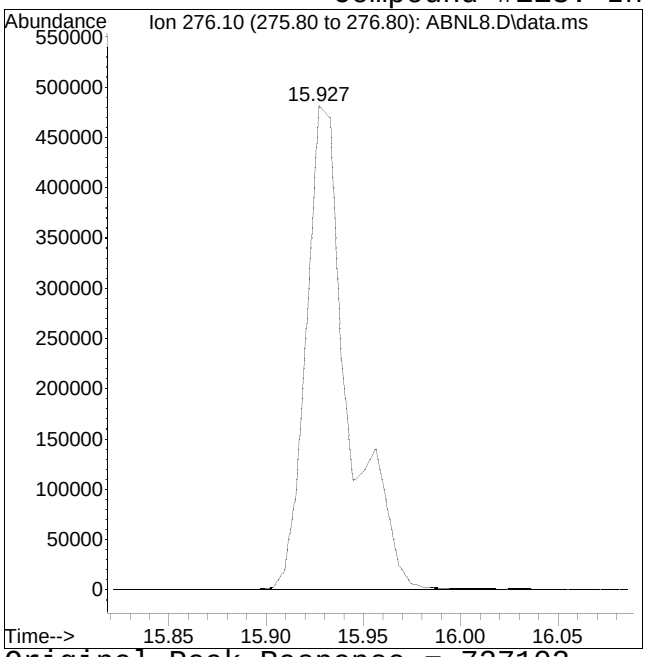
Sub List : ABNical - ABN ical sublistiical\ABNL6.D•



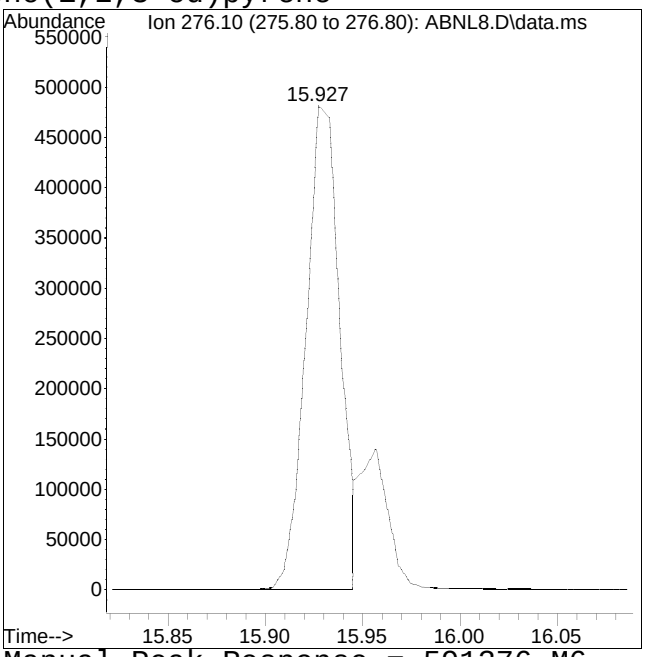
Manual Integration Report

Data Path : I:\8270\SV106\230902lviicaQMethod : FS230902SV106.m
Data File : ABNL8.D Operator : SV106:ljg
Date Inj'd : 9/2/2023 1:01 pm Instrument : SV 106
Sample : IL3,32,,ABNL15 Lot# 10164 Quant Date : 9/5/2023 11:15 am

Compound #113: Indeno(1,2,3-cd)pyrene



Original Peak Response = 727102



Manual Peak Response = 591376 M6

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\230902lviical\
Data File : ABNL7.D
Acq On : 2 Sep 2023 1:24 pm
Operator : SV106:ljg
Sample : IL4,32,,ABNL10 Lot# 10165
Misc : WG1823680,,ical
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 05 11:15:03 2023
Quant Method : I:\8270\SV106\230902lviical\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 05 11:14:56 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\230902lviical\ABNL6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	6.281	152	41700	4.000	ug/ml	# 0.00
Standard Area 1 = 43113			Recovery = 96.72%			
34) IS1_Naphthalene-d8	7.716	136	161337	4.000	ug/ml	0.00
Standard Area 1 = 167432			Recovery = 96.36%			
62) IS1_Acenaphthene-d10	9.474	164	89903	4.000	ug/ml	0.00
Standard Area 1 = 93119			Recovery = 96.55%			
87) IS1_Phenanthrene-d10	10.904	188	174498	4.000	ug/ml	# 0.00
Standard Area 1 = 179535			Recovery = 97.19%			
103) IS1_Chrysene-d12	13.521	240	162336	4.000	ug/ml	0.00
Standard Area 1 = 164850			Recovery = 98.47%			
112) IS1_Perylene-d12	14.974	264	174651	4.000	ug/ml	0.00
Standard Area 1 = 183060			Recovery = 95.41%			
System Monitoring Compounds						
4) 2-Fluorophenol	4.245	112	123162	10.590	ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 211.80%#			
7) Phenol-d6	5.910	99	161769	10.798	ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 215.96%#			
19) Nitrobenzene-d5	6.945	82	143925	10.595	ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 423.80%#			
45) 2-Fluorobiphenyl	8.839	172	311557	10.116	ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 404.64%#			
78) 2,4,6-Tribromophenol	10.245	330	44207	10.717	ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 214.34%#			
95) 4-Terphenyl-d14	12.486	244	400865	10.474	ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 418.96%#			
Target Compounds						Qvalue
2) n-Nitrosodimethylamine	1.922	74	74968	10.617	ug/ml#	67
3) Pyridine	1.951	79	128851	10.742	ug/ml#	63
5) Aniline	5.863	93	208544	10.567	ug/ml	97
6) 2-Chlorophenol	6.010	128	142959	10.763	ug/ml	91
8) Phenol	5.928	94	167078	10.537	ug/ml	97
9) Bis(2-chloroethyl)ether	6.004	93	132959	10.439	ug/ml#	82
10) 1,3-Dichlorobenzene	6.198	146	157458	10.339	ug/ml	99
11) 1,4-Dichlorobenzene	6.298	146	162727	10.385	ug/ml	99
12) 1,2-Dichlorobenzene	6.481	146	155990	10.455	ug/ml	99
13) Benzyl alcohol	6.498	79	121672	10.871	ug/ml	96
14) Bis(2-chloroisopropyl)...	6.681	45	197828	10.545	ug/ml#	50

Data Path : I:\8270\SV106\230902lviical\
Data File : ABNL7.D
Acq On : 2 Sep 2023 1:24 pm
Operator : SV106:ljg
Sample : IL4,32,,ABNL10 Lot# 10165
Misc : WG1823680,,ical
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 05 11:15:03 2023
Quant Method : I:\8270\SV106\230902lviical\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 05 11:14:56 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\230902lviical\ABNL6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
15) 2-Methylphenol	6.675	108	127300	10.733	ug/ml	99
16) Hexachloroethane	6.875	117	63885	10.458	ug/ml#	76
17) n-Nitrosodi-n-propylamine	6.822	70	102240	10.622	ug/ml	93
18) 3-Methylphenol/4-Methy...	6.863	108	134672	10.825	ug/ml	99
20) Nitrobenzene	6.963	77	145538	10.783	ug/ml	97
21) Isophorone	7.251	82	273843	10.601	ug/ml	95
22) 2-Nitrophenol	7.328	139	62103	11.505	ug/ml#	90
23) 2,4-Dimethylphenol	7.433	107	144296	10.806	ug/ml	97
24) Bis(2-chloroethoxy)met...	7.528	93	169754	10.489	ug/ml	100
25) 2,4-Dichlorophenol	7.592	162	123592	11.022	ug/ml	97
26) 1,2,4-Trichlorobenzene	7.675	180	134570	10.452	ug/ml	97
35) Naphthalene	7.739	128	418782	10.297	ug/ml	99
36) Benzoic Acid	7.545	105	92921	9.980	ug/ml	99
37) 4-Chloroaniline	7.822	65	57438	10.786	ug/ml	94
38) Hexachlorobutadiene	7.910	225	83134	10.023	ug/ml	99
39) p-Chloro-m-cresol	8.357	107	126763	10.782	ug/ml	96
40) 2-Methylnaphthalene	8.457	142	266409	10.288	ug/ml	95
41) 1-Methylnaphthalene	8.551	115	101148	10.416	ug/ml	84
42) Hexachlorocyclopentadiene	8.633	237	94250	10.657	ug/ml	97
43) 2,4,6-Trichlorophenol	8.757	196	91456	10.871	ug/ml	97
44) 2,4,5-Trichlorophenol	8.780	196	97811	10.809	ug/ml	98
46) 2-Chloronaphthalene	8.933	162	275685	10.215	ug/ml	100
47) 2-Nitroaniline	9.051	138	77457	9.883	ug/ml	92
48) 1,4-Dinitrobenzene	9.180	168	33349	9.695	ug/ml	89
49) 1,3-Dinitrobenzene	9.257	168	37868	9.450	ug/ml#	1
50) Dimethyl phthalate	9.257	163	325946	10.263	ug/ml#	98
51) Acenaphthylene	9.333	152	448549	10.326	ug/ml	99
52) 2,6-Dinitrotoluene	9.298	165	64069	10.085	ug/ml#	87
53) 1,2-Dinitrobenzene	9.339	168	27698	10.839	ug/ml#	1
63) 3-Nitroaniline	9.451	138	74243	11.545	ug/ml	100
64) Acenaphthene	9.504	154	260245	10.242	ug/ml	94
65) 2,4-Dinitrophenol	9.551	184	30743	9.569	ug/ml	96
66) Dibenzofuran	9.674	168	393373	10.355	ug/ml	98
67) 2,4-Dinitrotoluene	9.686	165	85374	9.967	ug/ml	94
68) 4-Nitrophenol	9.645	65	63553	9.941	ug/ml#	87
69) 2,3,5,6-Tetrachlorophenol	9.769	232	80603	11.036	ug/ml	99
70) 2,3,4,6-Tetrachlorophenol	9.810	232	82879	10.936	ug/ml	99
71) Diethyl phthalate	9.951	149	327950	10.312	ug/ml	99
72) Fluorene	10.010	166	315894	10.524	ug/ml	95
73) 4-Chlorophenyl phenyl ...	10.033	204	144872	10.114	ug/ml	98

Data Path : I:\8270\SV106\230902lviical\
Data File : ABNL7.D
Acq On : 2 Sep 2023 1:24 pm
Operator : SV106:ljg
Sample : IL4,32,,ABNL10 Lot# 10165
Misc : WG1823680,,ical
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 05 11:15:03 2023
Quant Method : I:\8270\SV106\230902lviical\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 05 11:14:56 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\230902lviical\ABNL6.D
Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
74)	4-Nitroaniline	10.039	138	68144	10.498	ug/ml	#	86
75)	4,6-Dinitro-o-cresol	10.074	198	40596	9.566	ug/ml	#	71
76)	NDPA/DPA	10.151	169	265685	10.520	ug/ml		98
77)	Azobenzene	10.180	77	303000	10.219	ug/ml		96
79)	4-Bromophenyl phenyl e...	10.498	248	84255	10.108	ug/ml		92
80)	Hexachlorobenzene	10.545	284	96977	9.995	ug/ml	#	88
81)	Pentachlorophenol	10.739	266	60646	10.043	ug/ml		99
88)	Phenanthrene	10.927	178	478235	10.063	ug/ml		99
89)	Anthracene	10.980	178	486527	10.286	ug/ml		99
90)	Carbazole	11.145	167	446072	10.321	ug/ml		99
91)	Di-n-butylphthalate	11.545	149	591522	10.687	ug/ml		99
92)	Fluoranthene	12.080	202	529102	10.415	ug/ml	#	93
93)	Benzidine	12.233	184	370696	11.042	ug/ml	#	95
94)	Pyrene	12.292	202	554586	10.310	ug/ml		99
96)	Butyl benzyl phthalate	13.010	149	256123	10.844	ug/ml		93
104)	Benzo(a)anthracene	13.509	228	543832	10.109	ug/ml		100
105)	3,3'-Dichlorobenzidine	13.515	252	206821	10.803	ug/ml		97
106)	Chrysene	13.545	228	510603	10.223	ug/ml		99
107)	Bis(2-ethylhexyl)phtha...	13.645	149	401933	11.145	ug/ml	#	91
108)	Di-n-octylphthalate	14.321	149	686886	11.290	ug/ml	#	73
109)	Benzo(b)fluoranthene	14.609	252	559732	10.891	ug/ml	#	95
110)	Benzo(k)fluoranthene	14.633	252	497557	10.100	ug/ml	#	93
111)	Benzo(a)pyrene	14.915	252	471038	10.713	ug/ml	#	94
113)	Indeno(1,2,3-cd)pyrene	15.927	276	433661M6	10.627	ug/mL		
114)	Dibenzo(a,h)anthracene	15.956	278	476349	10.916	ug/ml	#	92
115)	Benzo(ghi)perylene	16.162	276	464857	10.738	ug/ml	#	88

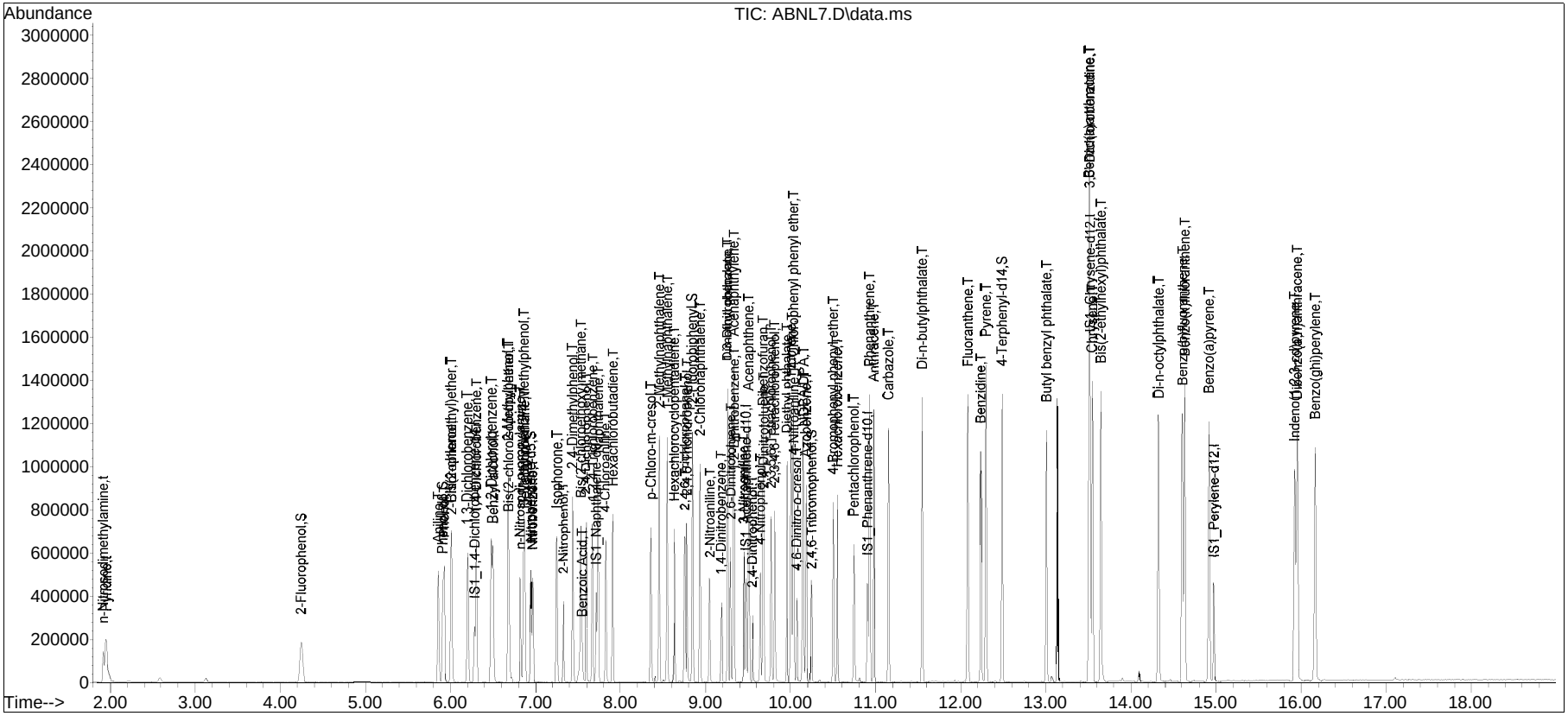
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\230902lviical\
Data File : ABNL7.D
Acq On : 2 Sep 2023 1:24 pm
Operator : SV106:ljg
Sample : IL4,32,,ABNL10 Lot# 10165
Misc : WG1823680,,ical
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 05 11:15:03 2023
Quant Method : I:\8270\SV106\230902lviical\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 05 11:14:56 2023
Response via : Initial Calibration

Sub List : ABNical - ABN ical sublistiical\ABNL6.D•

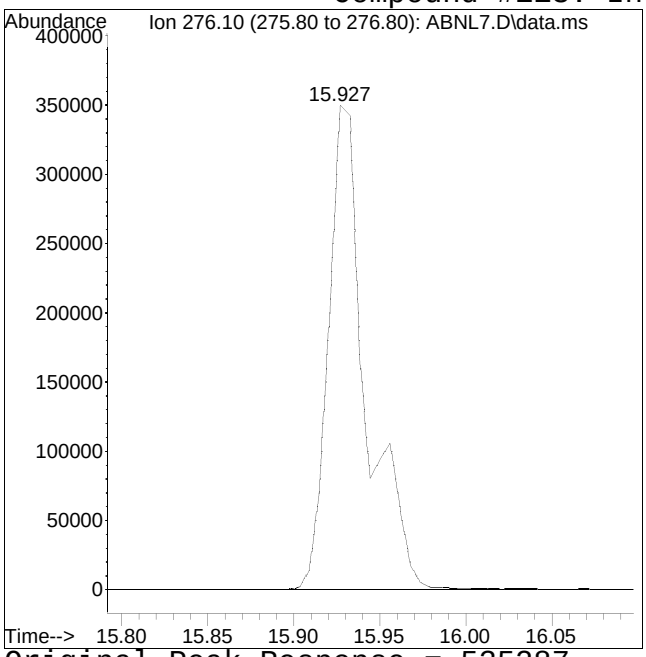


FS230902SV106.m Tue Sep 05 12:51:40 2023 Page: 4

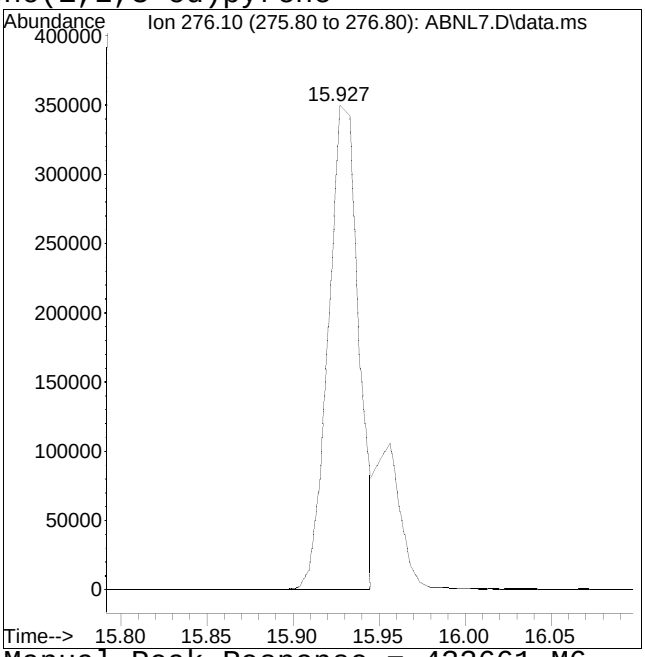
Manual Integration Report

Data Path : I:\8270\SV106\230902lviicaQMethod : FS230902SV106.m
Data File : ABNL7.D Operator : SV106:ljg
Date Inj'd : 9/2/2023 1:24 pm Instrument : SV 106
Sample : IL4,32,,ABNL10 Lot# 10165 Quant Date : 9/5/2023 11:14 am

Compound #113: Indeno(1,2,3-cd)pyrene



Original Peak Response = 535287



Manual Peak Response = 433661 M6

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\230902lviical\
Data File : ABNL6.D
Acq On : 2 Sep 2023 1:48 pm
Operator : SV106:ljg
Sample : IL5,32,,ABNL5 Lot# 10166
Misc : WG1823680,,ical
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 05 11:14:53 2023
Quant Method : I:\8270\SV106\230902lviical\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 05 11:14:47 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\230902lviical\ABNL6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) IS1_1,4-Dichlorobenzen...	6.281	152	43113	4.000 ug/ml	0.00
Standard Area 1 = 43113			Recovery = 100.00%		
34) IS1_Naphthalene-d8	7.716	136	167432	4.000 ug/ml	# 0.00
Standard Area 1 = 167432			Recovery = 100.00%		
62) IS1_Acenaphthene-d10	9.475	164	93119	4.000 ug/ml	0.00
Standard Area 1 = 93119			Recovery = 100.00%		
87) IS1_Phenanthrene-d10	10.904	188	179535	4.000 ug/ml	# 0.00
Standard Area 1 = 179535			Recovery = 100.00%		
103) IS1_Chrysene-d12	13.521	240	164850	4.000 ug/ml	0.00
Standard Area 1 = 164850			Recovery = 100.00%		
112) IS1_Perylene-d12	14.974	264	183060	4.000 ug/ml	0.00
Standard Area 1 = 183060			Recovery = 100.00%		
System Monitoring Compounds					
4) 2-Fluorophenol	4.251	112	53608	4.459 ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 89.18%		
7) Phenol-d6	5.910	99	71612	4.623 ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 92.46%		
19) Nitrobenzene-d5	6.945	82	62518	4.451 ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 178.04%#		
45) 2-Fluorobiphenyl	8.839	172	141447	4.425 ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 177.00%#		
78) 2,4,6-Tribromophenol	10.239	330	19770	4.627 ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 92.54%		
95) 4-Terphenyl-d14	12.486	244	178232	4.526 ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 181.04%#		
Target Compounds					Qvalue
2) n-Nitrosodimethylamine	1.928	74	33503	4.589 ug/ml#	67
3) Pyridine	1.969	79	57189	4.612 ug/ml#	62
5) Aniline	5.863	93	92709	4.544 ug/ml	97
6) 2-Chlorophenol	6.010	128	63839	4.649 ug/ml	91
8) Phenol	5.928	94	73966	4.512 ug/ml	96
9) Bis(2-chloroethyl)ether	6.004	93	60009	4.557 ug/ml#	83
10) 1,3-Dichlorobenzene	6.204	146	72377	4.597 ug/ml	98
11) 1,4-Dichlorobenzene	6.298	146	72405	4.469 ug/ml	98
12) 1,2-Dichlorobenzene	6.481	146	69434	4.501 ug/ml	97
13) Benzyl alcohol	6.498	79	53318	4.608 ug/ml	96
14) Bis(2-chloroisopropyl)...	6.687	45	88610	4.569 ug/ml#	51

Data Path : I:\8270\SV106\230902lviical\
Data File : ABNL6.D
Acq On : 2 Sep 2023 1:48 pm
Operator : SV106:ljg
Sample : IL5,32,,ABNL5 Lot# 10166
Misc : WG1823680,,ical
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 05 11:14:53 2023
Quant Method : I:\8270\SV106\230902lviical\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 05 11:14:47 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\230902lviical\ABNL6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
15) 2-Methylphenol	6.675	108	54813	4.470	ug/ml	98
16) Hexachloroethane	6.875	117	28814	4.562	ug/ml#	77
17) n-Nitrosodi-n-propylamine	6.822	70	44872	4.509	ug/ml	94
18) 3-Methylphenol/4-Methy...	6.863	108	58848	4.575	ug/ml	99
20) Nitrobenzene	6.963	77	64097	4.593	ug/ml	97
21) Isophorone	7.251	82	120453	4.510	ug/ml#	94
22) 2-Nitrophenol	7.328	139	25159	4.508	ug/ml#	90
23) 2,4-Dimethylphenol	7.434	107	64792	4.693	ug/ml	97
24) Bis(2-chloroethoxy)met...	7.528	93	76418	4.567	ug/ml	99
25) 2,4-Dichlorophenol	7.592	162	54845	4.731	ug/ml	97
26) 1,2,4-Trichlorobenzene	7.669	180	59450	4.466	ug/ml	97
35) Naphthalene	7.734	128	187039	4.431	ug/ml	99
36) Benzoic Acid	7.516	105	33776	4.546	ug/ml	93
37) 4-Chloroaniline	7.822	65	24945	4.514	ug/ml	86
38) Hexachlorobutadiene	7.910	225	37693	4.379	ug/ml	98
39) p-Chloro-m-cresol	8.357	107	56099	4.598	ug/ml	93
40) 2-Methylnaphthalene	8.457	142	119552	4.449	ug/ml	96
41) 1-Methylnaphthalene	8.551	115	45679	4.533	ug/ml	82
42) Hexachlorocyclopentadiene	8.634	237	40891	4.455	ug/ml	98
43) 2,4,6-Trichlorophenol	8.757	196	38187	4.374	ug/ml	99
44) 2,4,5-Trichlorophenol	8.781	196	41020	4.368	ug/ml	98
46) 2-Chloronaphthalene	8.934	162	124860	4.458	ug/ml	97
47) 2-Nitroaniline	9.045	138	32626	4.282	ug/ml	91
48) 1,4-Dinitrobenzene	9.181	168	12802	4.147	ug/ml	95
49) 1,3-Dinitrobenzene	9.257	168	15942	4.386	ug/ml#	1
50) Dimethyl phthalate	9.257	163	148549	4.507	ug/ml#	99
51) Acenaphthylene	9.334	152	198341	4.400	ug/ml	98
52) 2,6-Dinitrotoluene	9.298	165	26360	4.231	ug/ml	90
53) 1,2-Dinitrobenzene	9.334	168	11736	4.425	ug/ml#	1
63) 3-Nitroaniline	9.451	138	30446	4.571	ug/ml	96
64) Acenaphthene	9.504	154	116239	4.416	ug/ml	92
65) 2,4-Dinitrophenol	9.551	184	12622	4.471	ug/ml	97
66) Dibenzofuran	9.675	168	175680	4.465	ug/ml	100
67) 2,4-Dinitrotoluene	9.681	165	35384	4.273	ug/ml	89
68) 4-Nitrophenol	9.645	65	26288	4.234	ug/ml#	85
69) 2,3,5,6-Tetrachlorophenol	9.769	232	34630	4.578	ug/ml	98
70) 2,3,4,6-Tetrachlorophenol	9.810	232	35669	4.544	ug/ml	98
71) Diethyl phthalate	9.951	149	151630	4.603	ug/ml	99
72) Fluorene	10.010	166	140666	4.524	ug/ml	95
73) 4-Chlorophenyl phenyl ...	10.033	204	65856	4.439	ug/ml	97

Data Path : I:\8270\SV106\230902lviical\
Data File : ABNL6.D
Acq On : 2 Sep 2023 1:48 pm
Operator : SV106:ljg
Sample : IL5,32,,ABNL5 Lot# 10166
Misc : WG1823680,,ical
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 05 11:14:53 2023
Quant Method : I:\8270\SV106\230902lviical\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 05 11:14:47 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\230902lviical\ABNL6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
74) 4-Nitroaniline	10.039	138	32248	4.796	ug/ml#	85
75) 4,6-Dinitro-o-cresol	10.075	198	15208	4.206	ug/ml#	75
76) NDPA/DPA	10.145	169	120374	4.602	ug/ml	98
77) Azobenzene	10.181	77	139074	4.529	ug/ml	96
79) 4-Bromophenyl phenyl e...	10.498	248	38590	4.470	ug/ml	93
80) Hexachlorobenzene	10.545	284	43698	4.348	ug/ml#	88
81) Pentachlorophenol	10.739	266	25004	4.268	ug/ml	99
88) Phenanthrene	10.928	178	218498	4.469	ug/ml	100
89) Anthracene	10.975	178	220032	4.521	ug/ml	99
90) Carbazole	11.145	167	205218	4.615	ug/ml	100
91) Di-n-butylphthalate	11.545	149	260903	4.581	ug/ml	99
92) Fluoranthene	12.080	202	234340M3	4.483	ug/ml	
93) Benzidine	12.233	184	157906	4.572	ug/ml#	95
94) Pyrene	12.292	202	247443	4.471	ug/ml	100
96) Butyl benzyl phthalate	13.010	149	111041	4.569	ug/ml	89
104) Benzo(a)anthracene	13.510	228	244840	4.482	ug/ml	99
105) 3,3'-Dichlorobenzidine	13.516	252	90428	4.651	ug/ml	98
106) Chrysene	13.545	228	225709	4.450	ug/ml	100
107) Bis(2-ethylhexyl)phtha...	13.645	149	170515	4.656	ug/ml#	91
108) Di-n-octylphthalate	14.316	149	289524	4.686	ug/ml#	73
109) Benzo(b)fluoranthene	14.604	252	231440	4.435	ug/ml#	91
110) Benzo(k)fluoranthene	14.633	252	238988	4.777	ug/ml#	92
111) Benzo(a)pyrene	14.915	252	204531	4.581	ug/ml#	94
113) Indeno(1,2,3-cd)pyrene	15.927	276	190430M6	4.452	ug/mL	
114) Dibenzo(a,h)anthracene	15.957	278	210642	4.605	ug/ml#	91
115) Benzo(ghi)perylene	16.162	276	207270	4.568	ug/ml#	87

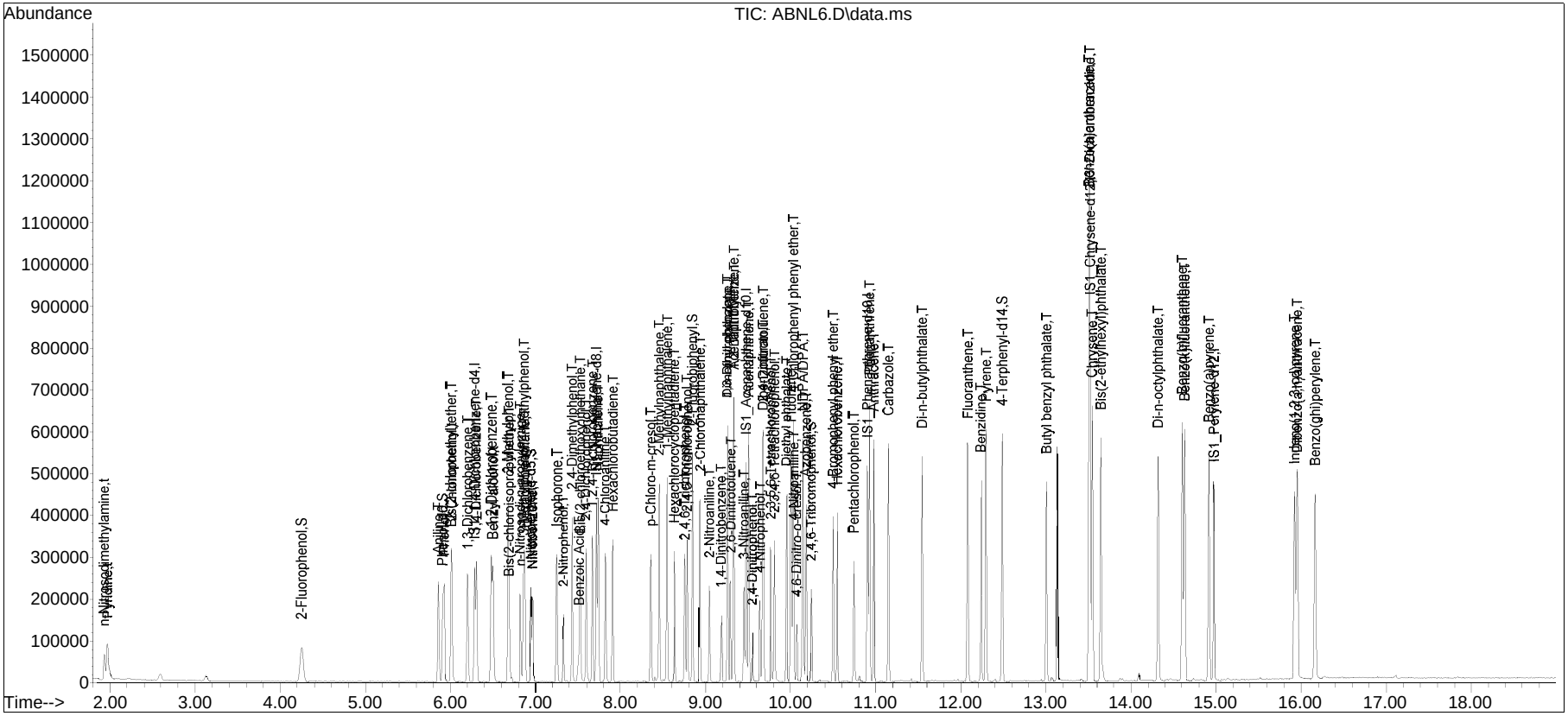
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\230902lviical\
Data File : ABNL6.D
Acq On : 2 Sep 2023 1:48 pm
Operator : SV106:ljg
Sample : IL5,32,,ABNL5 Lot# 10166
Misc : WG1823680,,ical
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 05 11:14:53 2023
Quant Method : I:\8270\SV106\230902lviical\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 05 11:14:47 2023
Response via : Initial Calibration

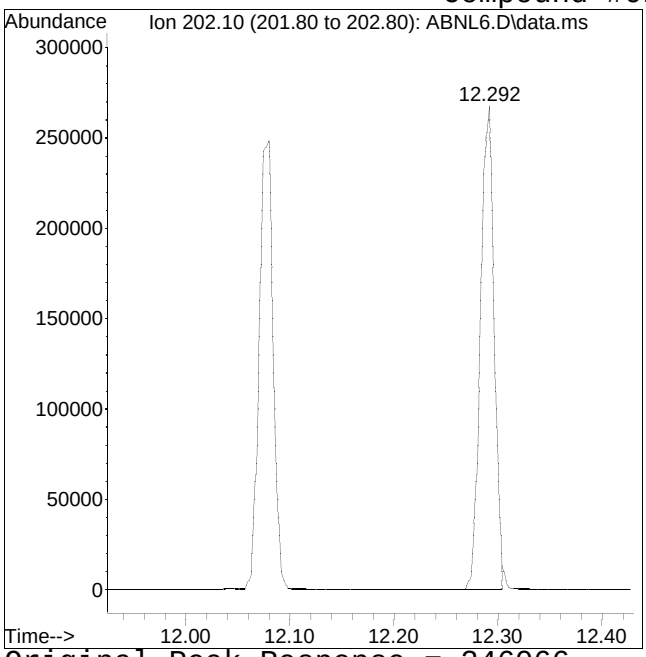
Sub List : ABNical - ABN ical sublistiical\ABNL6.D•

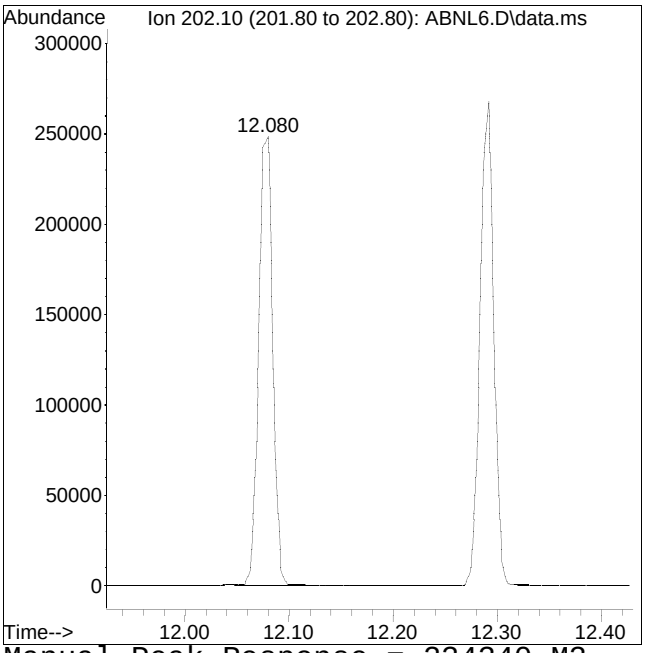


Manual Integration Report

Data Path : I:\8270\SV106\230902lviicaQMethod : FS230902SV106.m
Data File : ABNL6.D Operator : SV106:ljg
Date Inj'd : 9/2/2023 1:48 pm Instrument : SV 106
Sample : IL5,32,,ABNL5 Lot# 10166 Quant Date : 9/5/2023 11:14 am

Compound #92: Fluoranthene



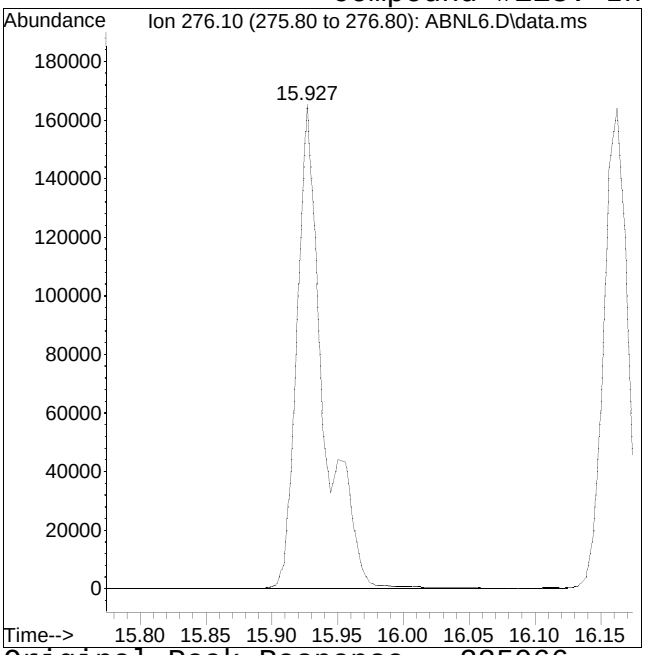


Original Peak Response = 246066 Manual Peak Response = 234340 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

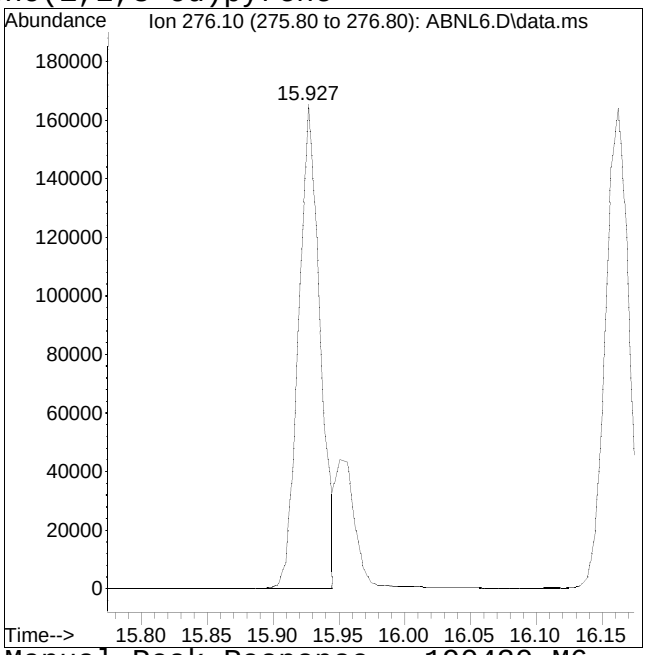
Manual Integration Report

Data Path : I:\8270\SV106\230902lviicaQMethod : FS230902SV106.m
Data File : ABNL6.D Operator : SV106:ljg
Date Inj'd : 9/2/2023 1:48 pm Instrument : SV 106
Sample : IL5,32,,ABNL5 Lot# 10166 Quant Date : 9/5/2023 11:14 am

Compound #113: Indeno(1,2,3-cd)pyrene



Original Peak Response = 235066



Manual Peak Response = 190430 M6

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\230902lviical\
Data File : ABNL5.D
Acq On : 2 Sep 2023 2:12 pm
Operator : SV106:ljg
Sample : IL6,32,,ABNL3 Lot# 10167
Misc : WG1823680,,ical
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 05 11:14:44 2023
Quant Method : I:\8270\SV106\230902lviical\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 05 11:14:38 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\230902lviical\ABNL6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) IS1_1,4-Dichlorobenzen...	6.281	152	42312	4.000 ug/ml	0.00
Standard Area 1 = 43113			Recovery = 98.14%		
34) IS1_Naphthalene-d8	7.716	136	163033	4.000 ug/ml	# 0.00
Standard Area 1 = 167432			Recovery = 97.37%		
62) IS1_Acenaphthene-d10	9.474	164	91995	4.000 ug/ml	0.00
Standard Area 1 = 93119			Recovery = 98.79%		
87) IS1_Phenanthrene-d10	10.904	188	172155	4.000 ug/ml	# 0.00
Standard Area 1 = 179535			Recovery = 95.89%		
103) IS1_Chrysene-d12	13.521	240	159415	4.000 ug/ml	0.00
Standard Area 1 = 164850			Recovery = 96.70%		
112) IS1_Perylene-d12	14.974	264	176549	4.000 ug/ml	0.00
Standard Area 1 = 183060			Recovery = 96.44%		
System Monitoring Compounds					
4) 2-Fluorophenol	4.251	112	35149	2.979 ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 59.58%		
7) Phenol-d6	5.910	99	44889	2.953 ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 59.06%		
19) Nitrobenzene-d5	6.945	82	40659	2.950 ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 118.00%		
45) 2-Fluorobiphenyl	8.839	172	90087	2.895 ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 115.80%		
78) 2,4,6-Tribromophenol	10.239	330	11696	2.771 ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 55.42%		
95) 4-Terphenyl-d14	12.486	244	111515	2.953 ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 118.12%		
Target Compounds					Qvalue
2) n-Nitrosodimethylamine	1.928	74	20951	2.924 ug/ml#	67
3) Pyridine	1.963	79	37299	3.065 ug/ml#	63
5) Aniline	5.863	93	59281	2.960 ug/ml	96
6) 2-Chlorophenol	6.010	128	39096	2.901 ug/ml	93
8) Phenol	5.928	94	48918	3.040 ug/ml	97
9) Bis(2-chloroethyl)ether	6.004	93	38247	2.959 ug/ml#	82
10) 1,3-Dichlorobenzene	6.198	146	46086	2.982 ug/ml	99
11) 1,4-Dichlorobenzene	6.298	146	46418	2.920 ug/ml	98
12) 1,2-Dichlorobenzene	6.481	146	43602	2.880 ug/ml	95
13) Benzyl alcohol	6.498	79	33271	2.930 ug/ml	97
14) Bis(2-chloroisopropyl)...	6.681	45	57122	3.001 ug/ml#	50

Data Path : I:\8270\SV106\230902lviical\
Data File : ABNL5.D
Acq On : 2 Sep 2023 2:12 pm
Operator : SV106:ljg
Sample : IL6,32,,ABNL3 Lot# 10167
Misc : WG1823680,,ical
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 05 11:14:44 2023
Quant Method : I:\8270\SV106\230902lviical\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 05 11:14:38 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\230902lviical\ABNL6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
15) 2-Methylphenol	6.675	108	35025	2.910	ug/ml	97
16) Hexachloroethane	6.875	117	18148	2.928	ug/ml#	72
17) n-Nitrosodi-n-propylamine	6.828	70	28326	2.900	ug/ml	93
18) 3-Methylphenol/4-Methy...	6.863	108	37365	2.960	ug/ml	99
20) Nitrobenzene	6.969	77	40568	2.962	ug/ml	93
21) Isophorone	7.251	82	78289	2.987	ug/ml	94
22) 2-Nitrophenol	7.328	139	15290	2.791	ug/ml#	94
23) 2,4-Dimethylphenol	7.433	107	40833	3.014	ug/ml	95
24) Bis(2-chloroethoxy)met...	7.528	93	47869	2.915	ug/ml	100
25) 2,4-Dichlorophenol	7.592	162	34591	3.040	ug/ml	96
26) 1,2,4-Trichlorobenzene	7.669	180	39338	3.011	ug/ml	98
35) Naphthalene	7.733	128	117635	2.862	ug/ml	98
36) Benzoic Acid	7.510	105	18831	3.294	ug/ml	95
37) 4-Chloroaniline	7.822	65	15556	2.891	ug/ml	83
38) Hexachlorobutadiene	7.910	225	25384	3.029	ug/ml	96
39) p-Chloro-m-cresol	8.357	107	35828	3.016	ug/ml	91
40) 2-Methylnaphthalene	8.457	142	76003	2.905	ug/ml	93
41) 1-Methylnaphthalene	8.551	115	28405	2.895	ug/ml	88
42) Hexachlorocyclopentadiene	8.633	237	27055	3.027	ug/ml	97
43) 2,4,6-Trichlorophenol	8.757	196	24955	2.935	ug/ml	99
44) 2,4,5-Trichlorophenol	8.780	196	26918	2.944	ug/ml	98
46) 2-Chloronaphthalene	8.933	162	81364	2.983	ug/ml	98
47) 2-Nitroaniline	9.045	138	19795	2.839	ug/ml	93
48) 1,4-Dinitrobenzene	9.180	168	8473	3.104	ug/ml	86
49) 1,3-Dinitrobenzene	9.257	168	9349	3.011	ug/ml#	1
50) Dimethyl phthalate	9.257	163	95028	2.961	ug/ml#	98
51) Acenaphthylene	9.333	152	128879	2.936	ug/ml	99
52) 2,6-Dinitrotoluene	9.298	165	16235	2.818	ug/ml	88
53) 1,2-Dinitrobenzene	9.333	168	7128	2.760	ug/ml#	1
63) 3-Nitroaniline	9.451	138	18738	2.847	ug/ml	93
64) Acenaphthene	9.504	154	74645	2.871	ug/ml	92
65) 2,4-Dinitrophenol	9.551	184	7566	3.154	ug/ml	98
66) Dibenzofuran	9.674	168	114249	2.939	ug/ml	100
67) 2,4-Dinitrotoluene	9.680	165	20985	2.755	ug/ml	87
68) 4-Nitrophenol	9.645	65	16769	2.890	ug/ml#	87
69) 2,3,5,6-Tetrachlorophenol	9.769	232	22472	3.007	ug/ml	96
70) 2,3,4,6-Tetrachlorophenol	9.810	232	22951	2.959	ug/ml	95
71) Diethyl phthalate	9.951	149	95911	2.947	ug/ml	99
72) Fluorene	10.010	166	90139	2.935	ug/ml	96
73) 4-Chlorophenyl phenyl ...	10.033	204	42347	2.889	ug/ml	96

Data Path : I:\8270\SV106\230902lviical\
Data File : ABNL5.D
Acq On : 2 Sep 2023 2:12 pm
Operator : SV106:ljg
Sample : IL6,32,,ABNL3 Lot# 10167
Misc : WG1823680,,ical
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 05 11:14:44 2023
Quant Method : I:\8270\SV106\230902lviical\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 05 11:14:38 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\230902lviical\ABNL6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
74) 4-Nitroaniline	10.039	138	20367	3.066	ug/ml#	83
75) 4,6-Dinitro-o-cresol	10.074	198	10188	3.229	ug/ml#	72
76) NDPA/DPA	10.145	169	75993	2.941	ug/ml	98
77) Azobenzene	10.180	77	88902	2.930	ug/ml	97
79) 4-Bromophenyl phenyl e...	10.498	248	24656	2.891	ug/ml	92
80) Hexachlorobenzene	10.545	284	28195	2.840	ug/ml	90
81) Pentachlorophenol	10.739	266	15254	2.807	ug/ml	98
88) Phenanthrene	10.927	178	142426	3.038	ug/ml	99
89) Anthracene	10.974	178	142235	3.048	ug/ml	100
90) Carbazole	11.145	167	128305	3.009	ug/ml	99
91) Di-n-butylphthalate	11.545	149	161574	2.959	ug/ml	99
92) Fluoranthene	12.080	202	149907	2.991	ug/ml#	93
93) Benzidine	12.233	184	101497	3.064	ug/ml#	94
94) Pyrene	12.292	202	158597	2.989	ug/ml	100
96) Butyl benzyl phthalate	13.009	149	67560	2.899	ug/ml	90
104) Benzo(a)anthracene	13.509	228	153452	2.905	ug/ml	98
105) 3,3'-Dichlorobenzidine	13.515	252	56312	2.995	ug/ml	97
106) Chrysene	13.545	228	144070	2.937	ug/ml	98
107) Bis(2-ethylhexyl)phtha...	13.645	149	105128	2.968	ug/ml#	90
108) Di-n-octylphthalate	14.321	149	177441	2.970	ug/ml#	73
109) Benzo(b)fluoranthene	14.604	252	160940	3.189	ug/ml#	91
110) Benzo(k)fluoranthene	14.633	252	132771	2.745	ug/ml#	92
111) Benzo(a)pyrene	14.915	252	127901	2.962	ug/ml#	96
113) Indeno(1,2,3-cd)pyrene	15.927	276	117399M6	2.846	ug/mL	
114) Dibenzo(a,h)anthracene	15.950	278	129117	2.927	ug/ml#	92
115) Benzo(ghi)perylene	16.162	276	128102	2.927	ug/ml#	88

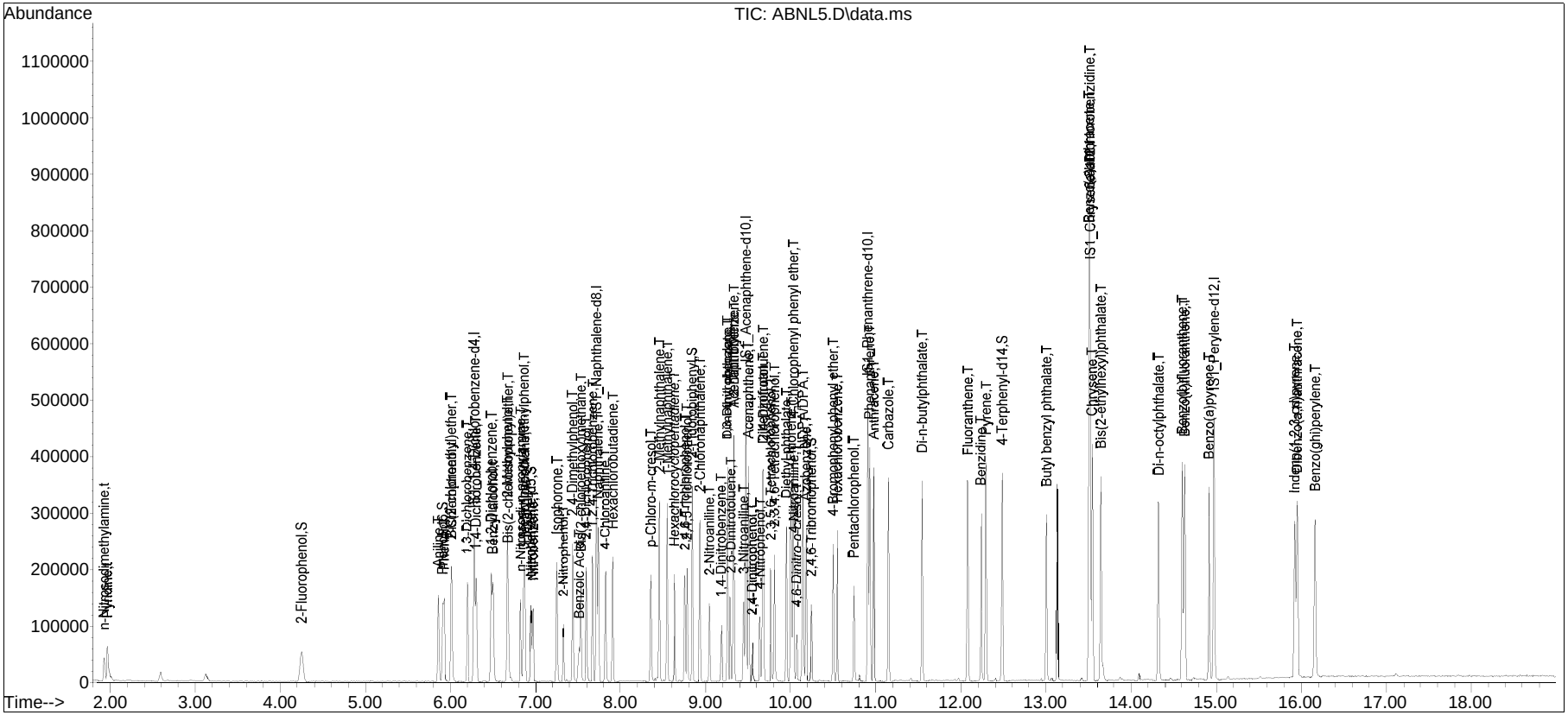
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\230902lviical\
Data File : ABNL5.D
Acq On : 2 Sep 2023 2:12 pm
Operator : SV106:ljg
Sample : IL6,32,,ABNL3 Lot# 10167
Misc : WG1823680,,ical
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 05 11:14:44 2023
Quant Method : I:\8270\SV106\230902lviical\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 05 11:14:38 2023
Response via : Initial Calibration

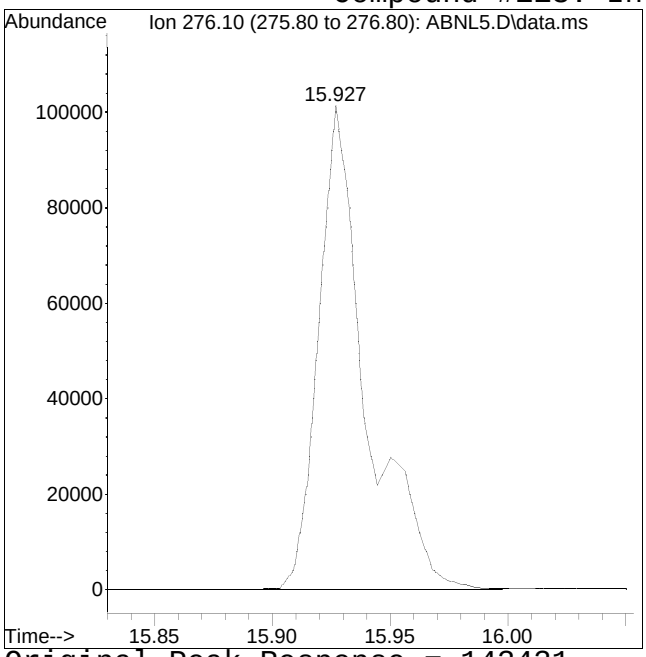
Sub List : ABNical - ABN ical sublistiical\ABNL6.D•



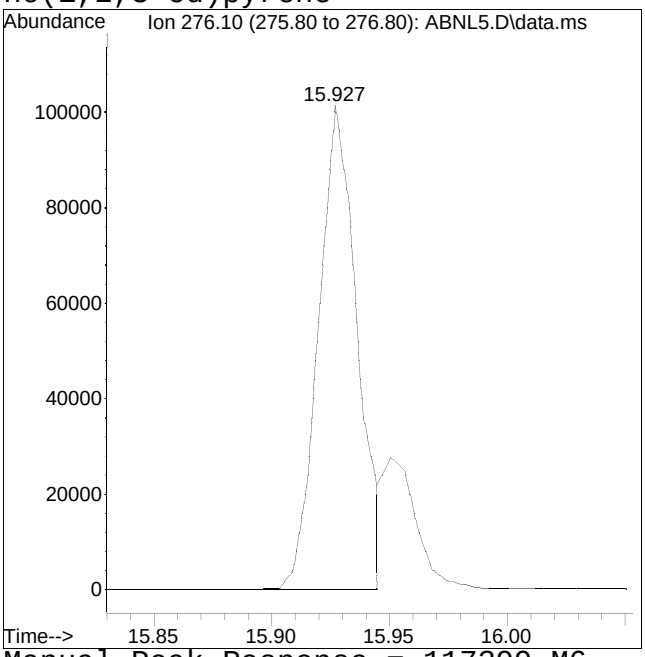
Manual Integration Report

Data Path : I:\8270\SV106\230902lviicaQMethod : FS230902SV106.m
Data File : ABNL5.D Operator : SV106:ljg
Date Inj'd : 9/2/2023 2:12 pm Instrument : SV 106
Sample : IL6,32,,ABNL3 Lot# 10167 Quant Date : 9/5/2023 11:14 am

Compound #113: Indeno(1,2,3-cd)pyrene



Original Peak Response = 143431



Manual Peak Response = 117399 M6

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\230902lviical\
Data File : ABNL4.D
Acq On : 2 Sep 2023 2:36 pm
Operator : SV106:ljg
Sample : IL7,32,,ABNL2 Lot# 10168
Misc : WG1823680,,ical
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 05 11:14:35 2023
Quant Method : I:\8270\SV106\230902lviical\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 05 11:14:29 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\230902lviical\ABNL6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) IS1_1,4-Dichlorobenzen...	6.281	152	41731	4.000 ug/ml	0.00
Standard Area 1 = 43113			Recovery = 96.79%		
34) IS1_Naphthalene-d8	7.716	136	156948	4.000 ug/ml	0.00
Standard Area 1 = 167432			Recovery = 93.74%		
62) IS1_Acenaphthene-d10	9.475	164	89480	4.000 ug/ml	0.00
Standard Area 1 = 93119			Recovery = 96.09%		
87) IS1_Phenanthrene-d10	10.904	188	167482	4.000 ug/ml	# 0.00
Standard Area 1 = 179535			Recovery = 93.29%		
103) IS1_Chrysene-d12	13.521	240	155774	4.000 ug/ml	0.00
Standard Area 1 = 164850			Recovery = 94.49%		
112) IS1_Perylene-d12	14.968	264	171492	4.000 ug/ml	0.00
Standard Area 1 = 183060			Recovery = 93.68%		
System Monitoring Compounds					
4) 2-Fluorophenol	4.251	112	22606	1.942 ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 38.84%		
7) Phenol-d6	5.910	99	29585	1.973 ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 39.46%		
19) Nitrobenzene-d5	6.945	82	24814	1.825 ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 73.00%		
45) 2-Fluorobiphenyl	8.839	172	61588	2.056 ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 82.24%		
78) 2,4,6-Tribromophenol	10.239	330	7852	1.912 ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 38.24%		
95) 4-Terphenyl-d14	12.486	244	74145	2.018 ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 80.72%		
Target Compounds					Qvalue
2) n-Nitrosodimethylamine	1.928	74	14209	2.011 ug/ml#	61
3) Pyridine	1.969	79	23287	1.940 ug/ml#	66
5) Aniline	5.863	93	39683	2.009 ug/ml	97
6) 2-Chlorophenol	6.010	128	26598	2.001 ug/ml	93
8) Phenol	5.928	94	31378	1.977 ug/ml	95
9) Bis(2-chloroethyl)ether	6.004	93	25366	1.990 ug/ml#	83
10) 1,3-Dichlorobenzene	6.198	146	30304	1.988 ug/ml	97
11) 1,4-Dichlorobenzene	6.298	146	31173	1.988 ug/ml	99
12) 1,2-Dichlorobenzene	6.481	146	30377	2.034 ug/ml	98
13) Benzyl alcohol	6.498	79	21876	1.953 ug/ml	97
14) Bis(2-chloroisopropyl)...	6.681	45	37678	2.007 ug/ml#	49

Data Path : I:\8270\SV106\230902lviical\
Data File : ABNL4.D
Acq On : 2 Sep 2023 2:36 pm
Operator : SV106:ljg
Sample : IL7,32,,ABNL2 Lot# 10168
Misc : WG1823680,,ical
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 05 11:14:35 2023
Quant Method : I:\8270\SV106\230902lviical\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 05 11:14:29 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\230902lviical\ABNL6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
15) 2-Methylphenol	6.675	108	23996	2.022	ug/ml	96
16) Hexachloroethane	6.875	117	11936	1.953	ug/ml#	70
17) n-Nitrosodi-n-propylamine	6.828	70	18660	1.937	ug/ml	96
18) 3-Methylphenol/4-Methy...	6.863	108	25484	2.047	ug/ml	99
20) Nitrobenzene	6.969	77	25949	1.921	ug/ml	97
21) Isophorone	7.251	82	50603	1.957	ug/ml	93
22) 2-Nitrophenol	7.328	139	9618	1.780	ug/ml#	93
23) 2,4-Dimethylphenol	7.434	107	26087	1.952	ug/ml	99
24) Bis(2-chloroethoxy)met...	7.528	93	32196	1.988	ug/ml#	97
25) 2,4-Dichlorophenol	7.592	162	22263	1.984	ug/ml	98
26) 1,2,4-Trichlorobenzene	7.669	180	26311	2.042	ug/ml	97
35) Naphthalene	7.734	128	79750	2.016	ug/ml	99
36) Benzoic Acid	7.504	105	10556	2.594	ug/ml	94
37) 4-Chloroaniline	7.822	65	10481	2.023	ug/ml	91
38) Hexachlorobutadiene	7.910	225	15713	1.947	ug/ml	97
39) p-Chloro-m-cresol	8.357	107	21570	1.886	ug/ml	96
40) 2-Methylnaphthalene	8.457	142	51001	2.025	ug/ml	97
41) 1-Methylnaphthalene	8.551	115	19850	2.101	ug/ml	78
42) Hexachlorocyclopentadiene	8.633	237	17160	1.995	ug/ml	99
43) 2,4,6-Trichlorophenol	8.757	196	15813	1.932	ug/ml	97
44) 2,4,5-Trichlorophenol	8.781	196	17246	1.959	ug/ml	97
46) 2-Chloronaphthalene	8.933	162	53487	2.037	ug/ml	97
47) 2-Nitroaniline	9.045	138	11982	1.954	ug/ml	95
48) 1,4-Dinitrobenzene	9.180	168	5424	2.363	ug/ml	86
49) 1,3-Dinitrobenzene	9.257	168	6256	2.376	ug/ml#	1
50) Dimethyl phthalate	9.257	163	60987	1.974	ug/ml#	98
51) Acenaphthylene	9.333	152	84227	1.993	ug/ml	98
52) 2,6-Dinitrotoluene	9.298	165	10643	2.042	ug/ml#	84
53) 1,2-Dinitrobenzene	9.333	168	4278	1.721	ug/ml#	1
63) 3-Nitroaniline	9.451	138	11690	1.826	ug/ml#	93
64) Acenaphthene	9.504	154	50539	1.998	ug/ml	96
65) 2,4-Dinitrophenol	9.551	184	4196	2.281	ug/ml	94
66) Dibenzofuran	9.675	168	74795	1.978	ug/ml	99
67) 2,4-Dinitrotoluene	9.686	165	13678	2.003	ug/ml	91
68) 4-Nitrophenol	9.639	65	10308	1.988	ug/ml#	86
69) 2,3,5,6-Tetrachlorophenol	9.769	232	14570	2.004	ug/ml	95
70) 2,3,4,6-Tetrachlorophenol	9.810	232	13746	1.822	ug/ml	97
71) Diethyl phthalate	9.951	149	63276	1.999	ug/ml	99
72) Fluorene	10.010	166	58093	1.945	ug/ml	92
73) 4-Chlorophenyl phenyl ...	10.033	204	28693	2.013	ug/ml	98

Data Path : I:\8270\SV106\230902lviical\
Data File : ABNL4.D
Acq On : 2 Sep 2023 2:36 pm
Operator : SV106:ljg
Sample : IL7,32,,ABNL2 Lot# 10168
Misc : WG1823680,,ical
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 05 11:14:35 2023
Quant Method : I:\8270\SV106\230902lviical\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 05 11:14:29 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\230902lviical\ABNL6.D
Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
74)	4-Nitroaniline	10.033	138	12792	1.980	ug/ml	88
75)	4,6-Dinitro-o-cresol	10.075	198	5623	2.338	ug/ml#	80
76)	NDPA/DPA	10.145	169	49643	1.975	ug/ml	98
77)	Azobenzene	10.180	77	56522	1.915	ug/ml	97
79)	4-Bromophenyl phenyl e...	10.498	248	15475	1.865	ug/ml	93
80)	Hexachlorobenzene	10.545	284	18699	1.936	ug/ml#	83
81)	Pentachlorophenol	10.739	266	9959	2.032	ug/ml	96
88)	Phenanthrene	10.927	178	89441	1.961	ug/ml	98
89)	Anthracene	10.974	178	91008	2.005	ug/ml	99
90)	Carbazole	11.145	167	85377	2.058	ug/ml	99
91)	Di-n-butylphthalate	11.545	149	103077	1.940	ug/ml	99
92)	Fluoranthene	12.080	202	97191	1.993	ug/ml#	92
93)	Benzidine	12.233	184	63784	1.980	ug/ml#	94
94)	Pyrene	12.292	202	104549	2.025	ug/ml	100
96)	Butyl benzyl phthalate	13.010	149	41652	1.837	ug/ml	90
104)	Benzo(a)anthracene	13.510	228	97396	1.887	ug/ml	100
105)	3,3'-Dichlorobenzidine	13.515	252	34464	1.876	ug/ml	99
106)	Chrysene	13.545	228	93631	1.954	ug/ml	99
107)	Bis(2-ethylhexyl)phtha...	13.645	149	67902	1.962	ug/ml#	90
108)	Di-n-octylphthalate	14.315	149	109282	1.872	ug/ml#	74
109)	Benzo(b)fluoranthene	14.604	252	94824	1.923	ug/ml#	95
110)	Benzo(k)fluoranthene	14.627	252	97734	2.068	ug/ml#	95
111)	Benzo(a)pyrene	14.915	252	84576	2.005	ug/ml#	95
113)	Indeno(1,2,3-cd)pyrene	15.927	276	78921M6	1.970	ug/mL	
114)	Dibenzo(a,h)anthracene	15.951	278	83553	1.950	ug/ml#	91
115)	Benzo(ghi)perylene	16.162	276	85228	2.005	ug/ml#	89

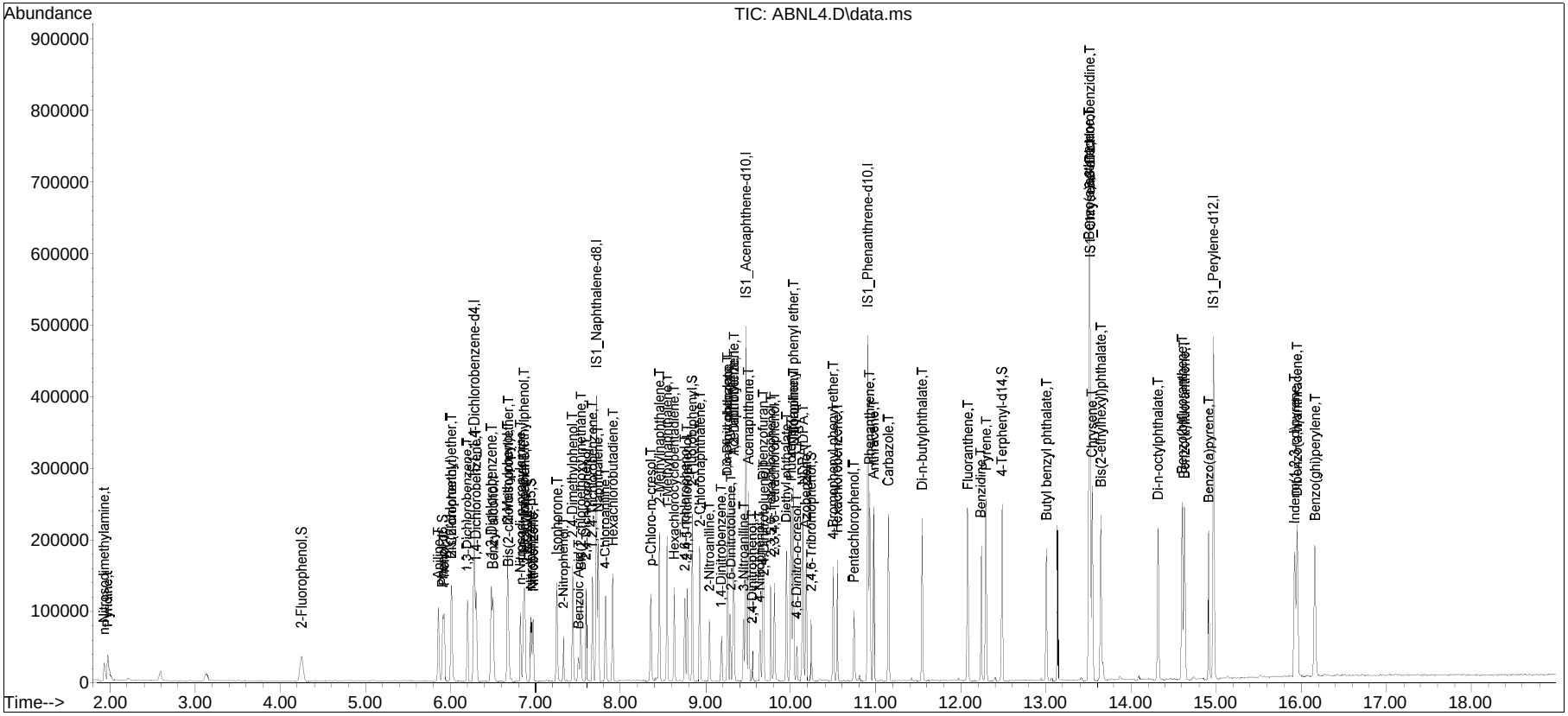
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\230902lviical\
Data File : ABNL4.D
Acq On : 2 Sep 2023 2:36 pm
Operator : SV106:ljg
Sample : IL7,32,,ABNL2 Lot# 10168
Misc : WG1823680,,ical
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 05 11:14:35 2023
Quant Method : I:\8270\SV106\230902lviical\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 05 11:14:29 2023
Response via : Initial Calibration

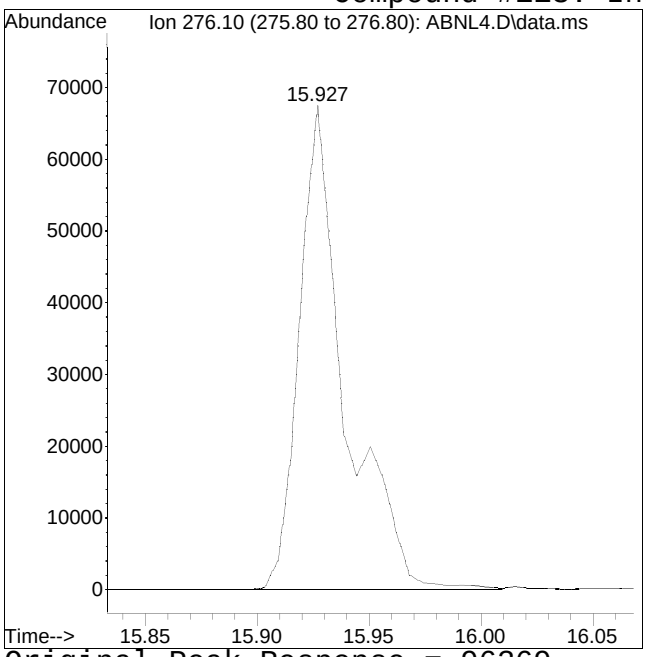
Sub List : ABNical - ABN ical sublistiical\ABNL6.D•



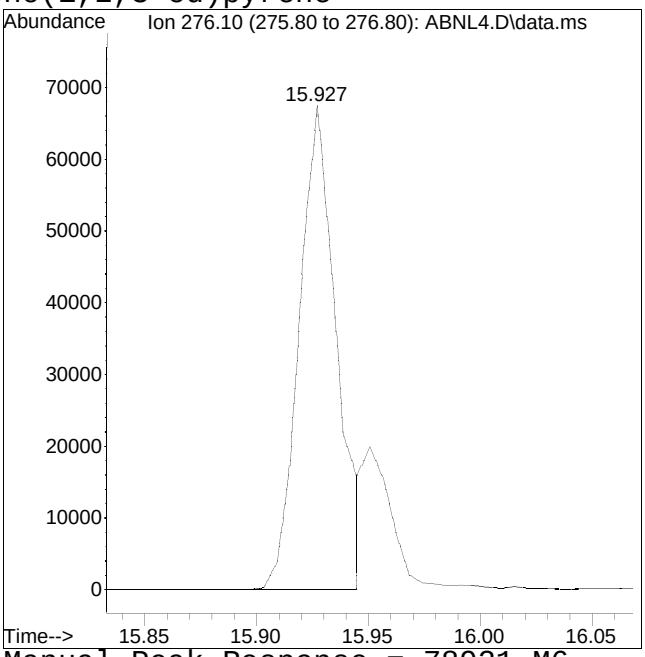
Manual Integration Report

Data Path : I:\8270\SV106\230902lviicaQMethod : FS230902SV106.m
Data File : ABNL4.D Operator : SV106:ljg
Date Inj'd : 9/2/2023 2:36 pm Instrument : SV 106
Sample : IL7,32,,ABNL2 Lot# 10168 Quant Date : 9/5/2023 11:14 am

Compound #113: Indeno(1,2,3-cd)pyrene



Original Peak Response = 96369



Manual Peak Response = 78921 M6

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\230902lviical\
Data File : ABNL3.D
Acq On : 2 Sep 2023 2:59 pm
Operator : SV106:ljg
Sample : IL8,32,,ABNL1 Lot# 10169
Misc : WG1823680,,ical
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 05 11:14:26 2023
Quant Method : I:\8270\SV106\230902lviical\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 05 11:14:20 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\230902lviical\ABNL6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	6.281	152	60782	4.000	ug/ml	0.00
Standard Area 1 = 43113			Recovery = 140.98%			
34) IS1_Naphthalene-d8	7.716	136	227051	4.000	ug/ml	0.00
Standard Area 1 = 167432			Recovery = 135.61%			
62) IS1_Acenaphthene-d10	9.475	164	128574	4.000	ug/ml	0.00
Standard Area 1 = 93119			Recovery = 138.07%			
87) IS1_Phenanthrene-d10	10.904	188	254702	4.000	ug/ml	0.00
Standard Area 1 = 179535			Recovery = 141.87%			
103) IS1_Chrysene-d12	13.515	240	228188	4.000	ug/ml	0.00
Standard Area 1 = 164850			Recovery = 138.42%			
112) IS1_Perylene-d12	14.968	264	250944	4.000	ug/ml	0.00
Standard Area 1 = 183060			Recovery = 137.08%			
System Monitoring Compounds						
4) 2-Fluorophenol	4.251	112	17106	1.009	ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 20.18%			
7) Phenol-d6	5.910	99	21987	1.007	ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 20.14%			
19) Nitrobenzene-d5	6.945	82	19597	0.990	ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 39.60%			
45) 2-Fluorobiphenyl	8.839	172	45354	1.046	ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 41.84%			
78) 2,4,6-Tribromophenol	10.239	330	5949	1.008	ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 20.16%			
95) 4-Terphenyl-d14	12.486	244	57410	1.028	ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 41.12%			
Target Compounds						Qvalue
2) n-Nitrosodimethylamine	1.934	74	10678	1.038	ug/ml#	68
3) Pyridine	1.981	79	17672	1.011	ug/ml#	67
5) Aniline	5.863	93	29848	1.038	ug/ml	98
6) 2-Chlorophenol	6.010	128	20234	1.045	ug/ml	90
8) Phenol	5.928	94	23707	1.026	ug/ml	100
9) Bis(2-chloroethyl)ether	6.004	93	18583	1.001	ug/ml#	79
10) 1,3-Dichlorobenzene	6.204	146	23465	1.057	ug/ml	98
11) 1,4-Dichlorobenzene	6.298	146	23262	1.018	ug/ml	97
12) 1,2-Dichlorobenzene	6.481	146	22252	1.023	ug/ml	98
13) Benzyl alcohol	6.498	79	16725	1.025	ug/ml	97
14) Bis(2-chloroisopropyl)...	6.681	45	28716	1.050	ug/ml#	52

Data Path : I:\8270\SV106\230902lviical\
Data File : ABNL3.D
Acq On : 2 Sep 2023 2:59 pm
Operator : SV106:ljg
Sample : IL8,32,,ABNL1 Lot# 10169
Misc : WG1823680,,ical
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 05 11:14:26 2023
Quant Method : I:\8270\SV106\230902lviical\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 05 11:14:20 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\230902lviical\ABNL6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
15) 2-Methylphenol	6.675	108	17307	1.001	ug/ml	96
16) Hexachloroethane	6.875	117	9587	1.077	ug/ml#	79
17) n-Nitrosodi-n-propylamine	6.828	70	14218	1.013	ug/ml	95
18) 3-Methylphenol/4-Methy...	6.863	108	18429	1.016	ug/ml	98
20) Nitrobenzene	6.969	77	18887	0.960	ug/ml	99
21) Isophorone	7.251	82	37965	1.008	ug/ml	97
22) 2-Nitrophenol	7.328	139	7055	0.897	ug/ml#	93
23) 2,4-Dimethylphenol	7.434	107	19008	0.977	ug/ml	96
24) Bis(2-chloroethoxy)met...	7.528	93	23868	1.012	ug/ml	97
25) 2,4-Dichlorophenol	7.592	162	15562	0.952	ug/ml	97
26) 1,2,4-Trichlorobenzene	7.669	180	19564	1.043	ug/ml	98
35) Naphthalene	7.734	128	59541	1.040	ug/ml	100
36) Benzoic Acid	7.498	105	6568	2.037	ug/ml	96
37) 4-Chloroaniline	7.822	65	7471	0.997	ug/ml	83
38) Hexachlorobutadiene	7.910	225	11962	1.025	ug/ml	98
39) p-Chloro-m-cresol	8.357	107	16586	1.002	ug/ml	96
40) 2-Methylnaphthalene	8.457	142	38762	1.064	ug/ml	95
41) 1-Methylnaphthalene	8.551	115	14355	1.050	ug/ml	84
42) Hexachlorocyclopentadiene	8.633	237	12084	0.971	ug/ml	99
43) 2,4,6-Trichlorophenol	8.751	196	11663	0.985	ug/ml	95
44) 2,4,5-Trichlorophenol	8.781	196	12573	0.987	ug/ml	99
46) 2-Chloronaphthalene	8.933	162	40801	1.074	ug/ml	98
47) 2-Nitroaniline	9.045	138	8942	1.228	ug/ml	91
48) 1,4-Dinitrobenzene	9.180	168	3566	1.560	ug/ml	98
49) 1,3-Dinitrobenzene	9.257	168	4125	1.589	ug/ml#	1
50) Dimethyl phthalate	9.257	163	47966	1.073	ug/ml#	97
51) Acenaphthylene	9.333	152	63845	1.044	ug/ml	99
52) 2,6-Dinitrotoluene	9.298	165	7320	1.173	ug/ml	92
53) 1,2-Dinitrobenzene	9.333	168	2921	0.812	ug/ml#	1
63) 3-Nitroaniline	9.451	138	8868	0.964	ug/ml	85
64) Acenaphthene	9.504	154	37746	1.039	ug/ml	91
65) 2,4-Dinitrophenol	9.551	184	3067	1.712	ug/ml	97
66) Dibenzofuran	9.675	168	57559	1.059	ug/ml	100
67) 2,4-Dinitrotoluene	9.680	165	9939	1.247	ug/ml	89
68) 4-Nitrophenol	9.639	65	7513	1.225	ug/ml#	89
69) 2,3,5,6-Tetrachlorophenol	9.769	232	10416	0.997	ug/ml	96
70) 2,3,4,6-Tetrachlorophenol	9.810	232	11432	1.055	ug/ml	97
71) Diethyl phthalate	9.951	149	47550	1.045	ug/ml	99
72) Fluorene	10.010	166	45094	1.050	ug/ml	96
73) 4-Chlorophenyl phenyl ...	10.033	204	21448	1.047	ug/ml	97

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\230902lviical\
Data File : ABNL3.D
Acq On : 2 Sep 2023 2:59 pm
Operator : SV106:ljg
Sample : IL8,32,,ABNL1 Lot# 10169
Misc : WG1823680,,ical
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 05 11:14:26 2023
Quant Method : I:\8270\SV106\230902lviical\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 05 11:14:20 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\230902lviical\ABNL6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
74) 4-Nitroaniline	10.033	138	9418	1.014	ug/ml#	85
75) 4,6-Dinitro-o-cresol	10.075	198	4154	1.770	ug/ml#	78
76) NDPA/DPA	10.145	169	38179	1.057	ug/ml	99
77) Azobenzene	10.180	77	44047	1.039	ug/ml	97
79) 4-Bromophenyl phenyl e...	10.498	248	12814	1.075	ug/ml	92
80) Hexachlorobenzene	10.545	284	14861	1.071	ug/ml	88
81) Pentachlorophenol	10.739	266	6908	1.213	ug/ml	98
88) Phenanthrene	10.927	178	70145	1.011	ug/ml	98
89) Anthracene	10.974	178	72033	1.043	ug/ml	99
90) Carbazole	11.145	167	64397	1.021	ug/ml	99
91) Di-n-butylphthalate	11.545	149	78746	0.975	ug/ml	99
92) Fluoranthene	12.074	202	74583	1.006	ug/ml#	92
93) Benzidine	12.233	184	47749	0.974	ug/ml#	95
94) Pyrene	12.286	202	80555	1.026	ug/ml	99
96) Butyl benzyl phthalate	13.010	149	32482	0.942	ug/ml	89
104) Benzo(a)anthracene	13.510	228	78416	1.037	ug/ml	96
105) 3,3'-Dichlorobenzidine	13.515	252	27099	1.007	ug/ml	97
106) Chrysene	13.545	228	73260	1.044	ug/ml	98
107) Bis(2-ethylhexyl)phtha...	13.645	149	51430	1.015	ug/ml#	94
108) Di-n-octylphthalate	14.315	149	82467	0.964	ug/ml#	74
109) Benzo(b)fluoranthene	14.604	252	74815	1.036	ug/ml#	96
110) Benzo(k)fluoranthene	14.627	252	69325M3	1.001	ug/ml	
111) Benzo(a)pyrene	14.910	252	64941	1.051	ug/ml#	96
113) Indeno(1,2,3-cd)pyrene	15.927	276	57776M6	0.985	ug/mL	
114) Dibenzo(a,h)anthracene	15.951	278	62111	0.991	ug/ml#	92
115) Benzo(ghi)perylene	16.157	276	65436	1.052	ug/ml#	87

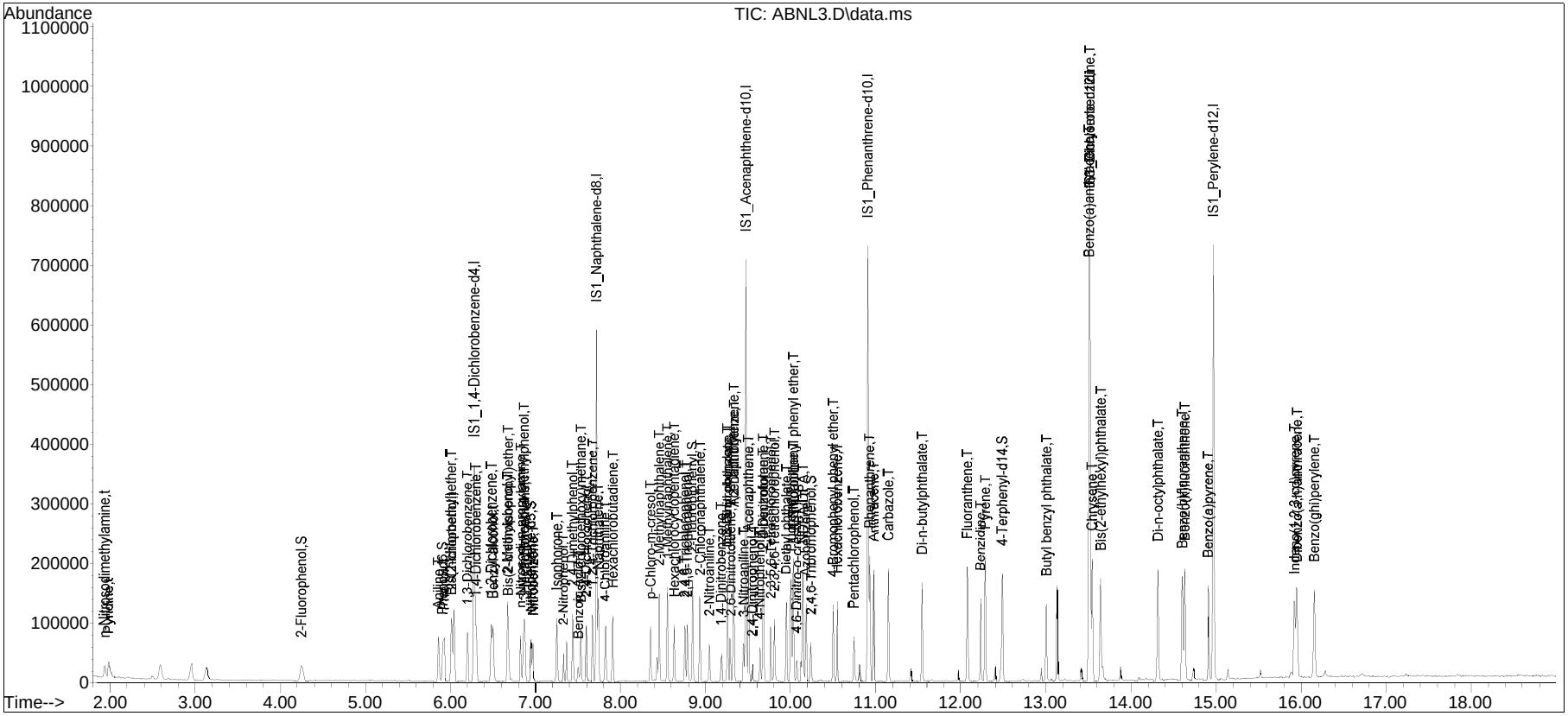
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\230902lviical\
Data File : ABNL3.D
Acq On : 2 Sep 2023 2:59 pm
Operator : SV106:ljg
Sample : IL8,32,,ABNL1 Lot# 10169
Misc : WG1823680,,ical
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 05 11:14:26 2023
Quant Method : I:\8270\SV106\230902lviical\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 05 11:14:20 2023
Response via : Initial Calibration

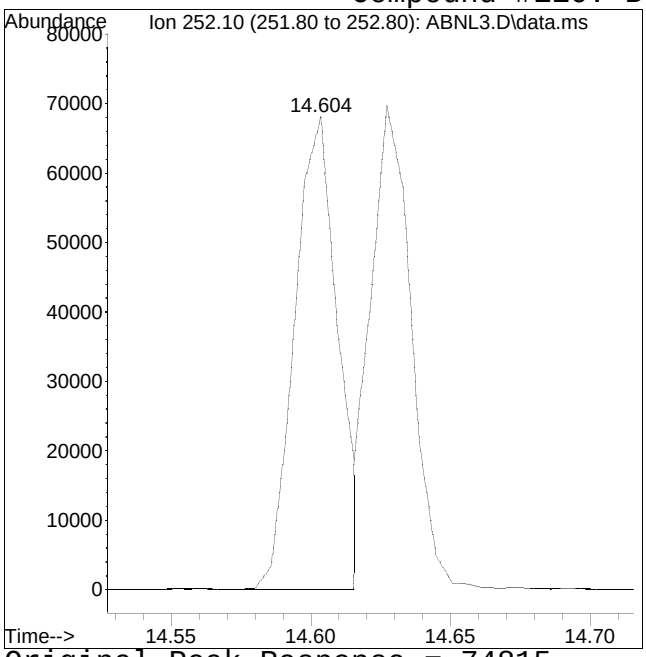
Sub List : ABNical - ABN ical sublistiical\ABNL6.D•

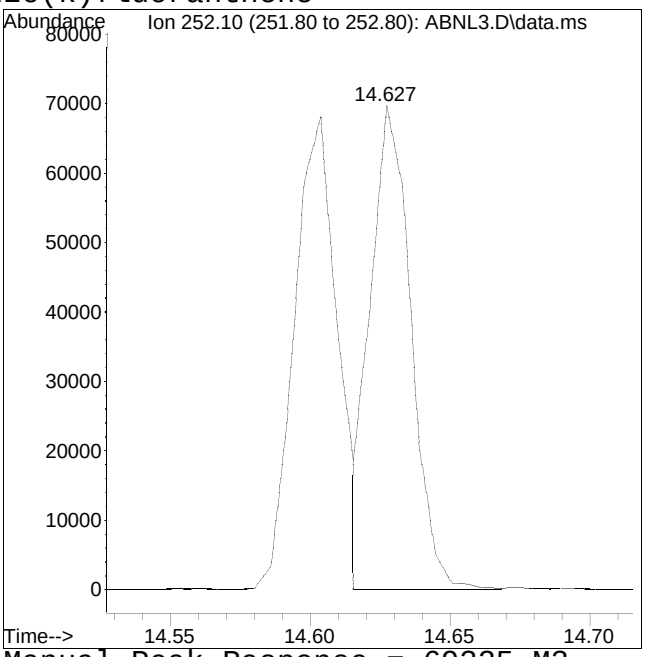


Manual Integration Report

Data Path : I:\8270\SV106\230902lviicaQMethod : FS230902SV106.m
Data File : ABNL3.D Operator : SV106:ljg
Date Inj'd : 9/2/2023 2:59 pm Instrument : SV 106
Sample : IL8,32,,ABNL1 Lot# 10169 Quant Date : 9/5/2023 11:14 am

Compound #110: Benzo(k)fluoranthene



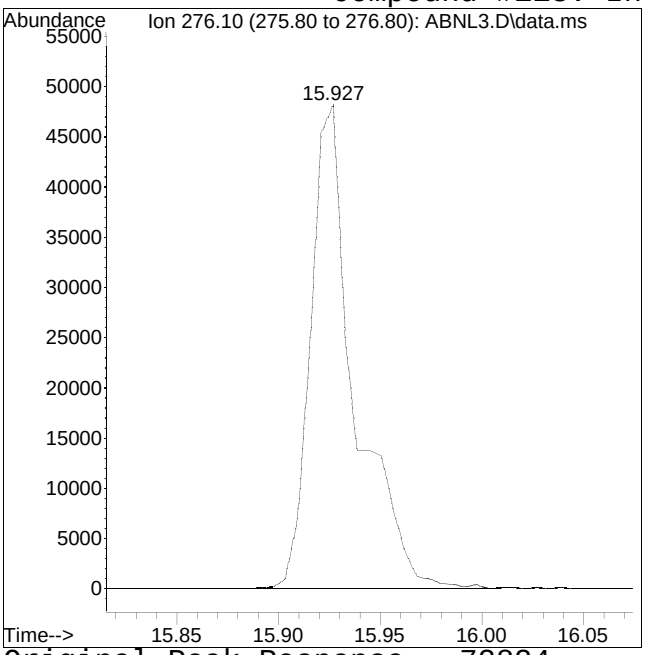


Original Peak Response = 74815 Manual Peak Response = 69325 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

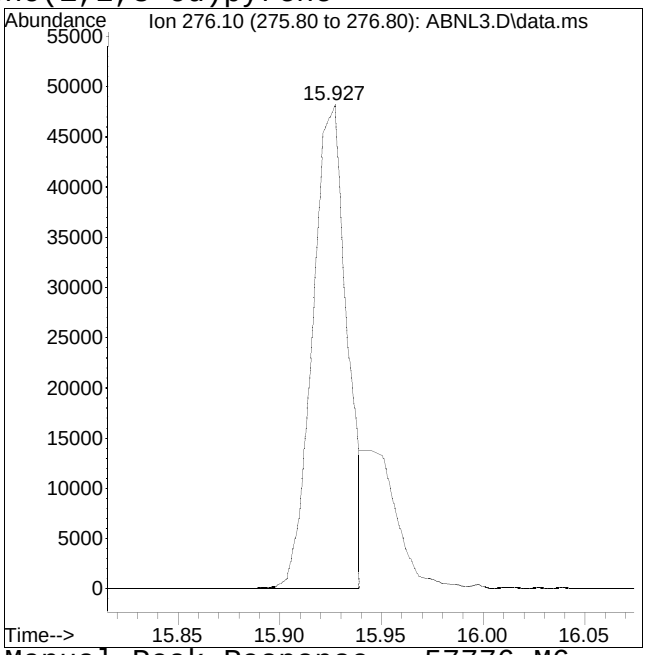
Manual Integration Report

Data Path : I:\8270\SV106\230902lviicaQMethod : FS230902SV106.m
Data File : ABNL3.D Operator : SV106:ljg
Date Inj'd : 9/2/2023 2:59 pm Instrument : SV 106
Sample : IL8,32,,ABNL1 Lot# 10169 Quant Date : 9/5/2023 11:14 am

Compound #113: Indeno(1,2,3-cd)pyrene



Original Peak Response = 72824



Manual Peak Response = 57776 M6

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\230902lviical\
Data File : ABNL2.D
Acq On : 2 Sep 2023 3:23 pm
Operator : SV106:ljg
Sample : IL9,32,,ABNL0.4 Lot# 10170
Misc : WG1823680,,ical
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 05 11:14:18 2023
Quant Method : I:\8270\SV106\230902lviical\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 05 11:14:12 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\230902lviical\ABNL6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	6.281	152	39844	4.000	ug/ml	0.00
Standard Area 1 = 43113			Recovery = 92.42%			
34) IS1_Naphthalene-d8	7.716	136	154749	4.000	ug/ml	0.00
Standard Area 1 = 167432			Recovery = 92.42%			
62) IS1_Acenaphthene-d10	9.475	164	82617	4.000	ug/ml	0.00
Standard Area 1 = 93119			Recovery = 88.72%			
87) IS1_Phenanthrene-d10	10.904	188	167849	4.000	ug/ml	# 0.00
Standard Area 1 = 179535			Recovery = 93.49%			
103) IS1_Chrysene-d12	13.515	240	145971	4.000	ug/ml	0.00
Standard Area 1 = 164850			Recovery = 88.55%			
112) IS1_Perylene-d12	14.968	264	163619	4.000	ug/ml	0.00
Standard Area 1 = 183060			Recovery = 89.38%			
System Monitoring Compounds						
4) 2-Fluorophenol	4.257	112	4367	0.393	ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 7.86%#			
7) Phenol-d6	5.916	99	5777	0.404	ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 8.08%#			
19) Nitrobenzene-d5	6.945	82	5100	0.393	ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 15.72%#			
45) 2-Fluorobiphenyl	8.839	172	11308	0.383	ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 15.32%#			
78) 2,4,6-Tribromophenol	10.239	330	1383	0.365	ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 7.30%#			
95) 4-Terphenyl-d14	12.486	244	14090	0.383	ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 15.32%#			
Target Compounds						Qvalue
2) n-Nitrosodimethylamine	1.940	74	2582	0.383	ug/ml#	69
3) Pyridine	1.993	79	4462	0.389	ug/ml#	58
5) Aniline	5.863	93	7302	0.387	ug/ml	97
6) 2-Chlorophenol	6.010	128	4760	0.375	ug/ml	96
8) Phenol	5.928	94	5587	0.369	ug/ml	95
9) Bis(2-chloroethyl)ether	6.004	93	4651	0.382	ug/ml#	75
10) 1,3-Dichlorobenzene	6.204	146	5601	0.385	ug/ml	88
11) 1,4-Dichlorobenzene	6.298	146	5651M3	0.377	ug/ml	
12) 1,2-Dichlorobenzene	6.481	146	5675	0.398	ug/ml	95
13) Benzyl alcohol	6.498	79	3558	0.333	ug/ml	90
14) Bis(2-chloroisopropyl)...	6.687	45	7323	0.409	ug/ml#	58

Data Path : I:\8270\SV106\230902lviical\
Data File : ABNL2.D
Acq On : 2 Sep 2023 3:23 pm
Operator : SV106:ljg
Sample : IL9,32,,ABNL0.4 Lot# 10170
Misc : WG1823680,,ical
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 05 11:14:18 2023
Quant Method : I:\8270\SV106\230902lviical\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 05 11:14:12 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\230902lviical\ABNL6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
15) 2-Methylphenol	6.675	108	4455	0.393	ug/ml#	93
16) Hexachloroethane	6.875	117	2286	0.392	ug/ml#	69
17) n-Nitrosodi-n-propylamine	6.828	70	3596	0.391	ug/ml#	87
18) 3-Methylphenol/4-Methy...	6.863	108	4384	0.369	ug/ml	93
20) Nitrobenzene	6.969	77	5251	0.407	ug/ml	93
21) Isophorone	7.251	82	9582	0.388	ug/ml	96
22) 2-Nitrophenol	7.328	139	1836	0.356	ug/ml#	95
23) 2,4-Dimethylphenol	7.434	107	4816	0.377	ug/ml	98
24) Bis(2-chloroethoxy)met...	7.528	93	5788	0.374	ug/ml	91
25) 2,4-Dichlorophenol	7.592	162	3831	0.358	ug/ml	91
26) 1,2,4-Trichlorobenzene	7.675	180	4840	0.393	ug/ml	91
35) Naphthalene	7.734	128	15151	0.388	ug/ml	99
36) Benzoic Acid	0.000		0	N.D.		
37) 4-Chloroaniline	7.828	65	1726	0.338	ug/ml#	57
38) Hexachlorobutadiene	7.910	225	3254	0.409	ug/ml	94
39) p-Chloro-m-cresol	8.357	107	4005	0.355	ug/ml	93
40) 2-Methylnaphthalene	8.457	142	9830	0.396	ug/ml	97
41) 1-Methylnaphthalene	8.551	115	3759	0.404	ug/ml	75
42) Hexachlorocyclopentadiene	8.633	237	3137	0.370	ug/ml#	92
43) 2,4,6-Trichlorophenol	8.757	196	2850	0.353	ug/ml	98
44) 2,4,5-Trichlorophenol	8.781	196	2962	0.341	ug/ml	98
46) 2-Chloronaphthalene	8.933	162	9911	0.383	ug/ml	96
47) 2-Nitroaniline	9.045	138	2051	0.715	ug/ml	94
48) 1,4-Dinitrobenzene	9.180	168	970	1.158	ug/ml#	76
49) 1,3-Dinitrobenzene	9.257	168	873	1.134	ug/ml#	1
50) Dimethyl phthalate	9.257	163	11124	0.365	ug/ml#	90
51) Acenaphthylene	9.333	152	15566	0.374	ug/ml	97
52) 2,6-Dinitrotoluene	9.298	165	1470	0.618	ug/ml	97
53) 1,2-Dinitrobenzene	9.339	168	661	0.270	ug/ml#	1
63) 3-Nitroaniline	9.451	138	1797	0.304	ug/ml#	61
64) Acenaphthene	9.504	154	9516	0.408	ug/ml	94
65) 2,4-Dinitrophenol	9.551	184	534	1.283	ug/ml#	25
66) Dibenzofuran	9.675	168	14489	0.415	ug/ml	99
67) 2,4-Dinitrotoluene	9.686	165	1920	0.707	ug/ml#	65
68) 4-Nitrophenol	9.639	65	1417	0.670	ug/ml#	79
69) 2,3,5,6-Tetrachlorophenol	9.769	232	2145	0.320	ug/ml	96
70) 2,3,4,6-Tetrachlorophenol	9.810	232	2456	0.353	ug/ml	93
71) Diethyl phthalate	9.945	149	11593	0.397	ug/ml	97
72) Fluorene	10.010	166	10989	0.398	ug/ml	97
73) 4-Chlorophenyl phenyl ...	10.033	204	5577	0.424	ug/ml	97

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\230902lviical\
Data File : ABNL2.D
Acq On : 2 Sep 2023 3:23 pm
Operator : SV106:ljg
Sample : IL9,32,,ABNL0.4 Lot# 10170
Misc : WG1823680,,ical
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 05 11:14:18 2023
Quant Method : I:\8270\SV106\230902lviical\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 05 11:14:12 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\230902lviical\ABNL6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
74) 4-Nitroaniline	10.039	138	2120	0.355	ug/ml#	84
75) 4,6-Dinitro-o-cresol	10.075	198	699	1.327	ug/ml#	1
76) NDPA/DPA	10.145	169	8919	0.384	ug/ml	93
77) Azobenzene	10.180	77	11113	0.408	ug/ml	94
79) 4-Bromophenyl phenyl e...	10.498	248	3185	0.416	ug/ml	88
80) Hexachlorobenzene	10.545	284	3664	0.411	ug/ml#	80
81) Pentachlorophenol	10.739	266	1227	0.660	ug/ml#	83
88) Phenanthrene	10.927	178	18603	0.407	ug/ml	98
89) Anthracene	10.974	178	16832	0.370	ug/ml	96
90) Carbazole	11.145	167	16047	0.386	ug/ml	97
91) Di-n-butylphthalate	11.545	149	18827	0.354	ug/ml#	97
92) Fluoranthene	12.074	202	17982M3	0.368	ug/ml	
93) Benzidine	12.233	184	10765	0.333	ug/ml#	94
94) Pyrene	12.292	202	19858	0.384	ug/ml	98
96) Butyl benzyl phthalate	13.010	149	6807	0.300	ug/ml	96
104) Benzo(a)anthracene	13.510	228	19349	0.400	ug/ml	97
105) 3,3'-Dichlorobenzidine	13.515	252	5903	0.343	ug/ml#	97
106) Chrysene	13.545	228	18127	0.404	ug/ml	98
107) Bis(2-ethylhexyl)phtha...	13.645	149	10941	0.337	ug/ml#	93
108) Di-n-octylphthalate	14.315	149	18156	0.332	ug/ml#	76
109) Benzo(b)fluoranthene	14.604	252	16564	0.358	ug/ml	96
110) Benzo(k)fluoranthene	14.627	252	18087M3	0.408	ug/ml	
111) Benzo(a)pyrene	14.910	252	14370	0.363	ug/ml	97
113) Indeno(1,2,3-cd)pyrene	15.927	276	13711M6	0.359	ug/mL	
114) Dibenzo(a,h)anthracene	15.951	278	15021	0.367	ug/ml	98
115) Benzo(ghi)perylene	16.156	276	15738	0.388	ug/ml#	89

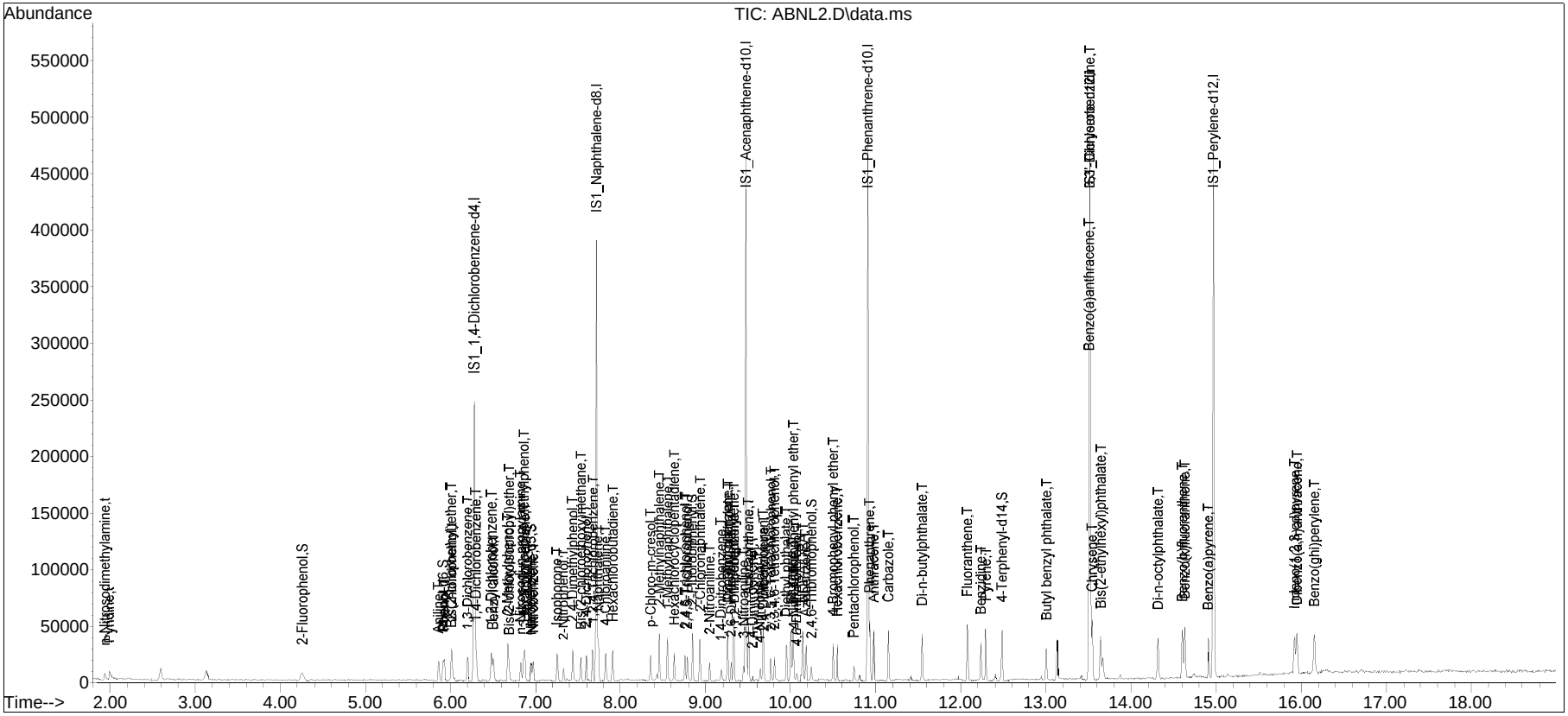
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\230902lviical\
Data File : ABNL2.D
Acq On : 2 Sep 2023 3:23 pm
Operator : SV106:ljg
Sample : IL9,32,,ABNL0.4 Lot# 10170
Misc : WG1823680,,ical
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 05 11:14:18 2023
Quant Method : I:\8270\SV106\230902lviical\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 05 11:14:12 2023
Response via : Initial Calibration

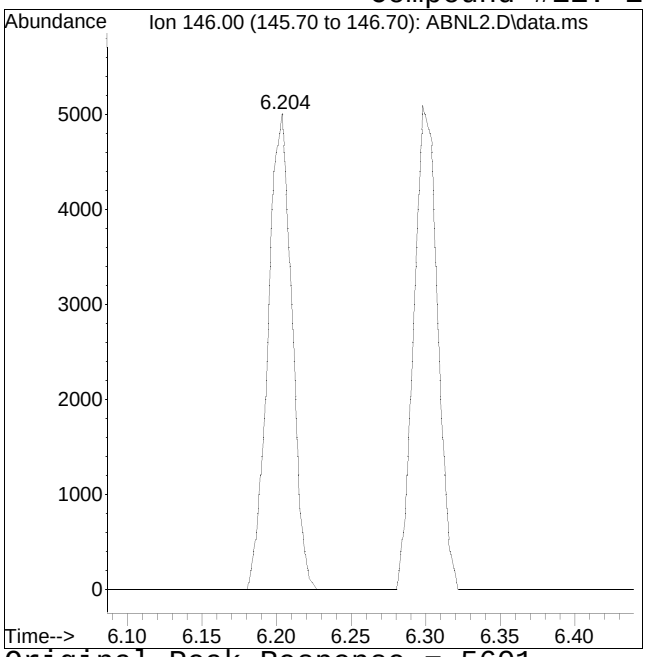
Sub List : ABNical - ABN ical sublistiical\ABNL6.D•

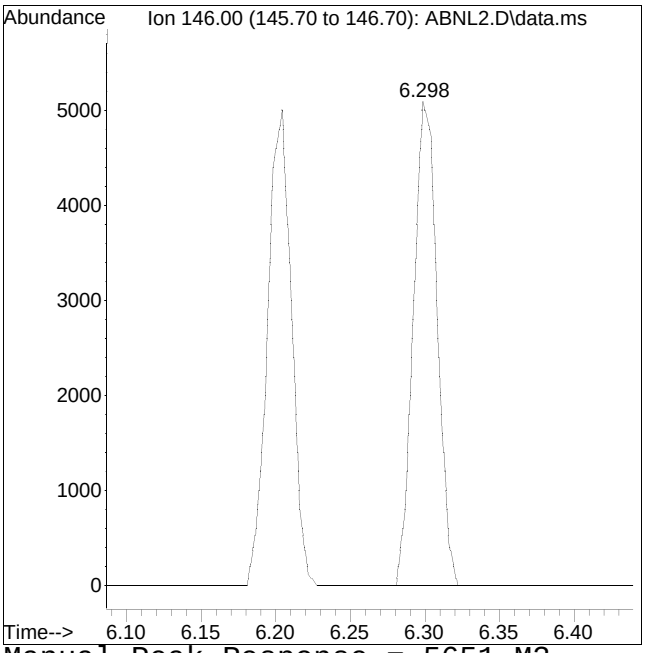


Manual Integration Report

Data Path : I:\8270\SV106\230902lviicaQMethod : FS230902SV106.m
Data File : ABNL2.D Operator : SV106:ljg
Date Inj'd : 9/2/2023 3:23 pm Instrument : SV 106
Sample : IL9,32,,ABNL0.4 Lot# 10170Quant Date : 9/5/2023 11:14 am

Compound #11: 1,4-Dichlorobenzene





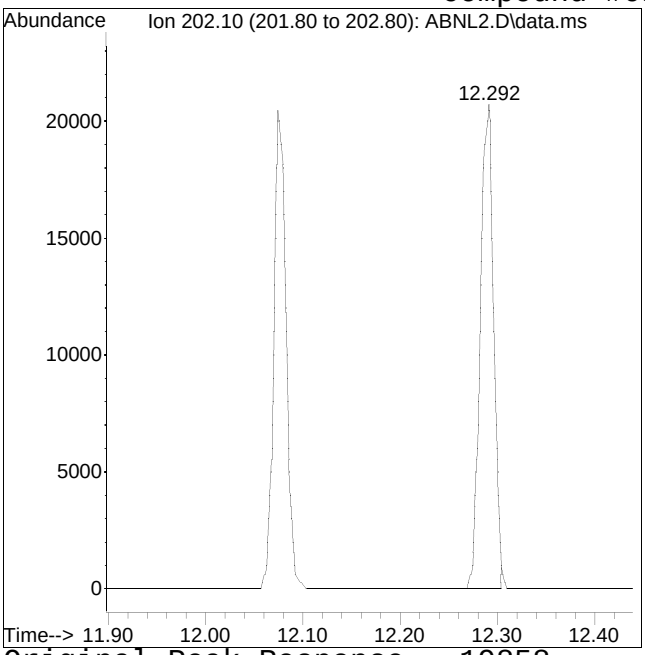
Original Peak Response = 5601 Manual Peak Response = 5651 M3

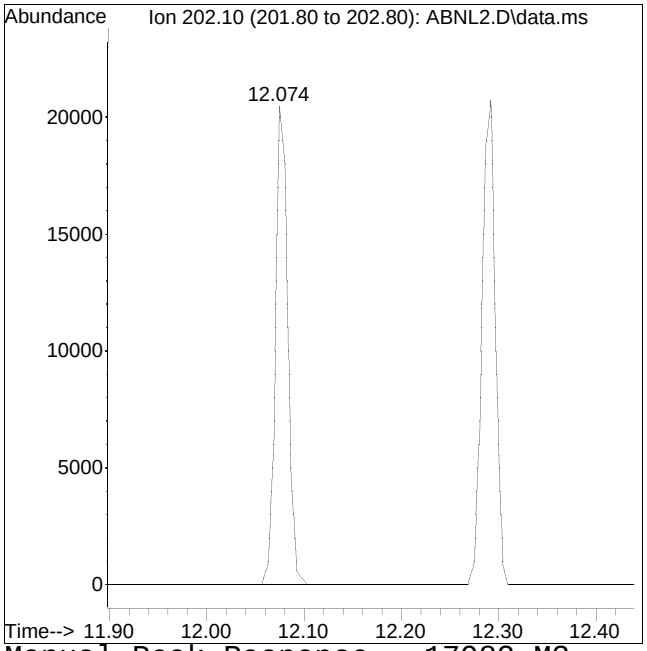
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\8270\SV106\230902lviicaQMethod : FS230902SV106.m
Data File : ABNL2.D Operator : SV106:ljg
Date Inj'd : 9/2/2023 3:23 pm Instrument : SV 106
Sample : IL9,32,,ABNL0.4 Lot# 10170Quant Date : 9/5/2023 11:14 am

Compound #92: Fluoranthene



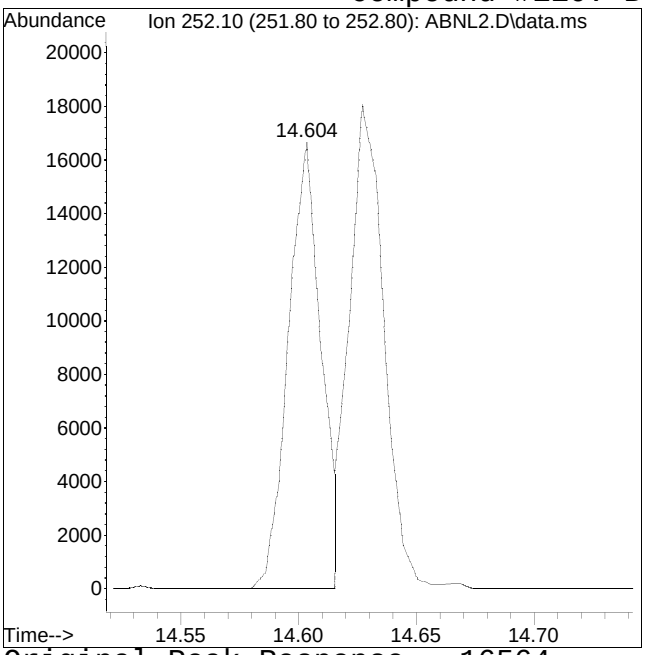


Original Peak Response = 19858 Manual Peak Response = 17982 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

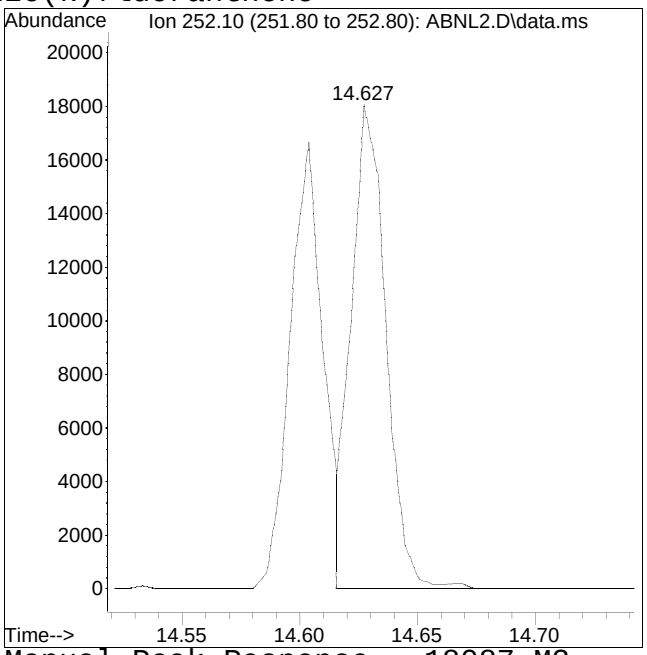
Manual Integration Report

Data Path : I:\8270\SV106\230902lviicaQMethod : FS230902SV106.m
Data File : ABNL2.D Operator : SV106:ljg
Date Inj'd : 9/2/2023 3:23 pm Instrument : SV 106
Sample : IL9,32,,ABNL0.4 Lot# 10170Quant Date : 9/5/2023 11:14 am

Compound #110: Benzo(k)fluoranthene



Original Peak Response = 16564



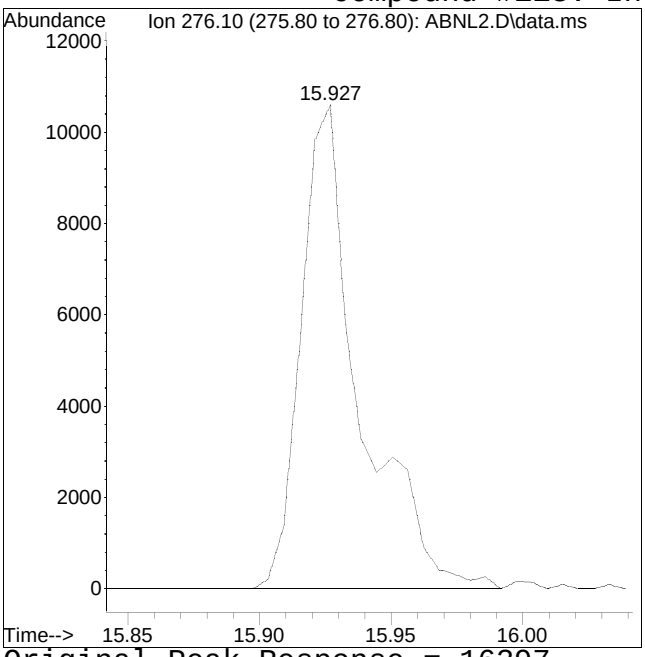
Manual Peak Response = 18087 M3

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

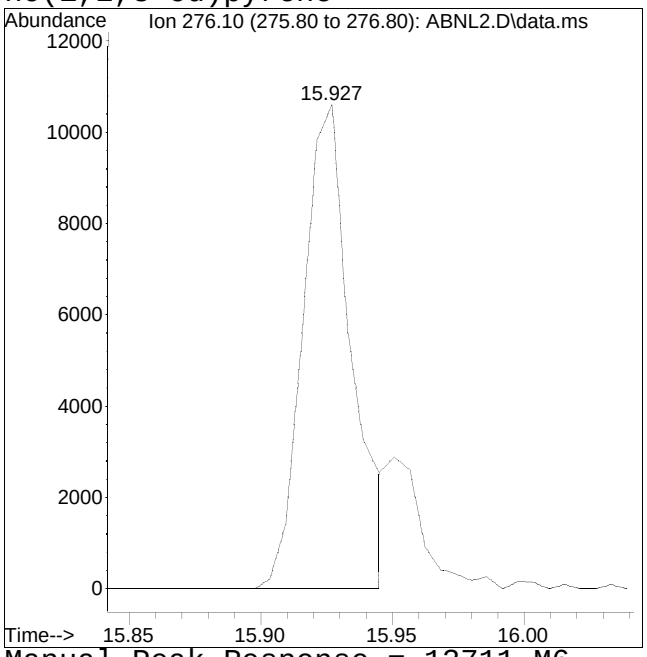
Manual Integration Report

Data Path : I:\8270\SV106\230902lviicaQMethod : FS230902SV106.m
Data File : ABNL2.D Operator : SV106:ljg
Date Inj'd : 9/2/2023 3:23 pm Instrument : SV 106
Sample : IL9,32,,ABNL0.4 Lot# 10170Quant Date : 9/5/2023 11:14 am

Compound #113: Indeno(1,2,3-cd)pyrene



Original Peak Response = 16397



Manual Peak Response = 13711 M6

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\230902lviical\
Data File : ABNL1.D
Acq On : 2 Sep 2023 3:47 pm
Operator : SV106:ljg
Sample : IL10,32,,ABNL0.2 Lot# 10171
Misc : WG1823680,,ical
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 05 11:13:59 2023
Quant Method : I:\8270\SV106\230902lviical\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 05 11:13:54 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\230902lviical\ABNL6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) IS1_1,4-Dichlorobenzen...	6.281	152	47115	4.000 ug/ml	0.00
Standard Area 1 = 43113			Recovery = 109.28%		
34) IS1_Naphthalene-d8	7.716	136	177047	4.000 ug/ml	# 0.00
Standard Area 1 = 167432			Recovery = 105.74%		
62) IS1_Acenaphthene-d10	9.475	164	97401	4.000 ug/ml	0.00
Standard Area 1 = 93119			Recovery = 104.60%		
87) IS1_Phenanthrene-d10	10.904	188	193756	4.000 ug/ml	# 0.00
Standard Area 1 = 179535			Recovery = 107.92%		
103) IS1_Chrysene-d12	13.515	240	168051	4.000 ug/ml	0.00
Standard Area 1 = 164850			Recovery = 101.94%		
112) IS1_Perylene-d12	14.968	264	186728	4.000 ug/ml	0.00
Standard Area 1 = 183060			Recovery = 102.00%		
System Monitoring Compounds					
4) 2-Fluorophenol	4.245	112	2562	0.195 ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 3.90%#		
7) Phenol-d6	5.910	99	3120	0.184 ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 3.68%#		
19) Nitrobenzene-d5	6.945	82	3178	0.207 ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 8.28%#		
45) 2-Fluorobiphenyl	8.839	172	7396	0.219 ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 8.76%#		
78) 2,4,6-Tribromophenol	10.239	330	764	0.171 ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 3.42%#		
95) 4-Terphenyl-d14	12.486	244	8108	0.191 ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 7.64%#		
Target Compounds					Qvalue
2) n-Nitrosodimethylamine	0.000		0	N.D. d	
3) Pyridine	2.010	79	2483	0.183 ug/ml#	68
5) Aniline	5.869	93	4329	0.194 ug/ml	95
6) 2-Chlorophenol	6.016	128	2871	0.191 ug/ml#	88
8) Phenol	5.928	94	3708	0.207 ug/ml	94
9) Bis(2-chloroethyl)ether	6.004	93	3165	0.220 ug/ml	93
10) 1,3-Dichlorobenzene	6.198	146	3564	0.207 ug/ml	96
11) 1,4-Dichlorobenzene	6.304	146	4143	0.234 ug/ml	94
12) 1,2-Dichlorobenzene	6.481	146	3635	0.216 ug/ml	96
13) Benzyl alcohol	6.498	79	2509	0.198 ug/ml	97
14) Bis(2-chloroisopropyl)...	6.686	45	4168	0.197 ug/ml#	45

Data Path : I:\8270\SV106\230902lviical\
Data File : ABNL1.D
Acq On : 2 Sep 2023 3:47 pm
Operator : SV106:ljg
Sample : IL10,32,,ABNL0.2 Lot# 10171
Misc : WG1823680,,ical
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 05 11:13:59 2023
Quant Method : I:\8270\SV106\230902lviical\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 05 11:13:54 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\230902lviical\ABNL6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
15) 2-Methylphenol	6.675	108	2502	0.187	ug/ml	91
16) Hexachloroethane	6.875	117	1389	0.201	ug/ml#	74
17) n-Nitrosodi-n-propylamine	6.828	70	2285	0.210	ug/ml#	59
18) 3-Methylphenol/4-Methy...	6.863	108	2508	0.178	ug/ml#	96
20) Nitrobenzene	6.969	77	2763	0.181	ug/ml#	81
21) Isophorone	7.257	82	5745	0.197	ug/ml#	91
22) 2-Nitrophenol	7.328	139	1114	0.183	ug/ml#	84
23) 2,4-Dimethylphenol	7.433	107	2976	0.197	ug/ml	89
24) Bis(2-chloroethoxy)met...	7.528	93	3940	0.215	ug/ml#	89
25) 2,4-Dichlorophenol	7.592	162	2293	0.181	ug/ml#	88
26) 1,2,4-Trichlorobenzene	7.675	180	2894	0.199	ug/ml#	83
35) Naphthalene	7.739	128	9259	0.207	ug/ml#	95
36) Benzoic Acid	0.000		0	N.D.		
37) 4-Chloroaniline	7.822	65	1300	0.222	ug/ml	94
38) Hexachlorobutadiene	7.910	225	2065	0.227	ug/ml	90
39) p-Chloro-m-cresol	8.357	107	2277	0.176	ug/ml	96
40) 2-Methylnaphthalene	8.457	142	5588M3	0.197	ug/ml	
41) 1-Methylnaphthalene	8.551	115	1925	0.181	ug/ml	99
42) Hexachlorocyclopentadiene	8.633	237	1877	0.193	ug/ml#	83
43) 2,4,6-Trichlorophenol	8.757	196	1723	0.187	ug/ml	86
44) 2,4,5-Trichlorophenol	8.786	196	2040M3	0.205	ug/ml	
46) 2-Chloronaphthalene	8.933	162	6063	0.205	ug/ml	99
47) 2-Nitroaniline	9.051	138	1074	0.574	ug/ml#	81
48) 1,4-Dinitrobenzene	9.180	168	574	1.029	ug/ml	98
49) 1,3-Dinitrobenzene	9.251	168	729	1.079	ug/ml#	1
50) Dimethyl phthalate	9.257	163	7331	0.210	ug/ml#	94
51) Acenaphthylene	9.333	152	9825	0.206	ug/ml	97
52) 2,6-Dinitrotoluene	9.292	165	830	0.500	ug/ml	94
53) 1,2-Dinitrobenzene	9.339	168	464M3	0.165	ug/ml	
63) 3-Nitroaniline	9.451	138	942	0.135	ug/ml#	77
64) Acenaphthene	9.504	154	6065	0.220	ug/ml	95
65) 2,4-Dinitrophenol	0.000		0	N.D.		
66) Dibenzofuran	9.674	168	8240	0.200	ug/ml	96
67) 2,4-Dinitrotoluene	9.680	165	1115	0.589	ug/ml#	61
68) 4-Nitrophenol	9.645	65	904	0.564	ug/ml#	83
69) 2,3,5,6-Tetrachlorophenol	9.769	232	1439	0.182	ug/ml	96
70) 2,3,4,6-Tetrachlorophenol	9.810	232	1700M3	0.207	ug/ml	
71) Diethyl phthalate	9.951	149	6790	0.197	ug/ml#	97
72) Fluorene	10.010	166	6534	0.201	ug/ml	92
73) 4-Chlorophenyl phenyl ...	10.033	204	3339	0.215	ug/ml	93

Data Path : I:\8270\SV106\230902lviical\
Data File : ABNL1.D
Acq On : 2 Sep 2023 3:47 pm
Operator : SV106:ljg
Sample : IL10,32,,ABNL0.2 Lot# 10171
Misc : WG1823680,,ical
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 05 11:13:59 2023
Quant Method : I:\8270\SV106\230902lviical\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 05 11:13:54 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\230902lviical\ABNL6.D
Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
74)	4-Nitroaniline	10.039	138	1118	0.159	ug/ml#	88
75)	4,6-Dinitro-o-cresol	10.074	198	349M2	1.236	ug/ml	
76)	NDPA/DPA	10.145	169	5441	0.199	ug/ml	93
77)	Azobenzene	10.180	77	6764	0.211	ug/ml	98
79)	4-Bromophenyl phenyl e...	10.498	248	1983	0.220	ug/ml#	87
80)	Hexachlorobenzene	10.545	284	2477	0.236	ug/ml#	89
81)	Pentachlorophenol	10.739	266	637	0.542	ug/ml#	19
88)	Phenanthrene	10.927	178	11198M3	0.212	ug/ml	
89)	Anthracene	10.974	178	10597	0.202	ug/ml	95
90)	Carbazole	11.145	167	8499	0.177	ug/ml#	95
91)	Di-n-butylphthalate	11.545	149	11599	0.189	ug/ml#	98
92)	Fluoranthene	12.074	202	11243M3	0.199	ug/ml	
93)	Benzidine	12.233	184	6351	0.170	ug/ml#	85
94)	Pyrene	12.286	202	11668	0.195	ug/ml	98
96)	Butyl benzyl phthalate	13.010	149	4140	0.158	ug/ml	97
104)	Benzo(a)anthracene	13.510	228	12297	0.221	ug/ml	97
105)	3,3'-Dichlorobenzidine	13.515	252	3600	0.182	ug/ml#	93
106)	Chrysene	13.545	228	11695	0.226	ug/ml	97
107)	Bis(2-ethylhexyl)phtha...	13.645	149	6101	0.163	ug/ml#	96
108)	Di-n-octylphthalate	14.315	149	10113	0.161	ug/ml#	77
109)	Benzo(b)fluoranthene	14.604	252	10734	0.202	ug/ml#	92
110)	Benzo(k)fluoranthene	14.627	252	10791	0.212	ug/ml#	93
111)	Benzo(a)pyrene	14.915	252	8872	0.195	ug/ml	99
113)	Indeno(1,2,3-cd)pyrene	15.927	276	8556M1	0.196	ug/mL	
114)	Dibenzo(a,h)anthracene	15.951	278	8390	0.180	ug/ml	93
115)	Benzo(ghi)perylene	16.156	276	9050	0.196	ug/ml	93

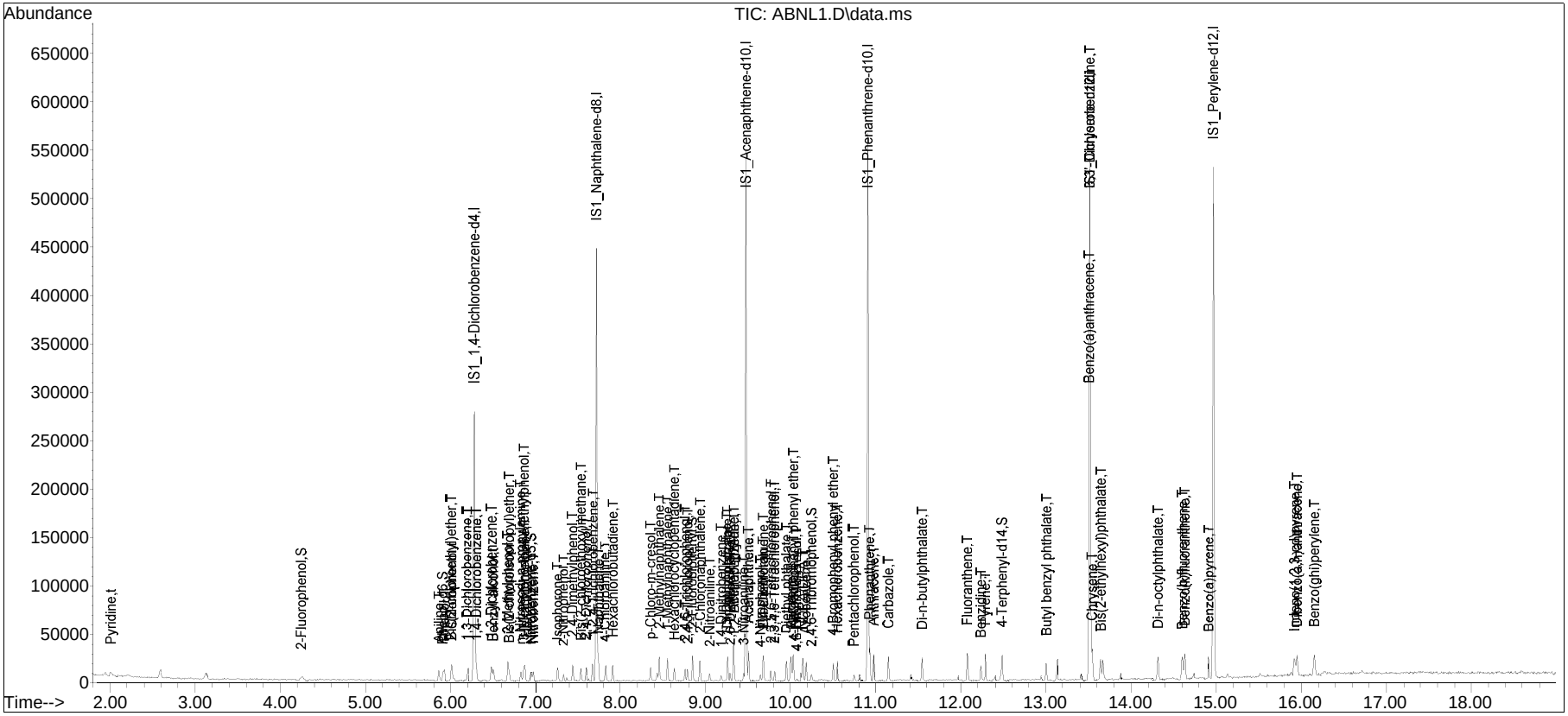
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\230902lviical\
Data File : ABNL1.D
Acq On : 2 Sep 2023 3:47 pm
Operator : SV106:ljg
Sample : IL10,32,,ABNL0.2 Lot# 10171
Misc : WG1823680,,ical
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 05 11:13:59 2023
Quant Method : I:\8270\SV106\230902lviical\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 05 11:13:54 2023
Response via : Initial Calibration

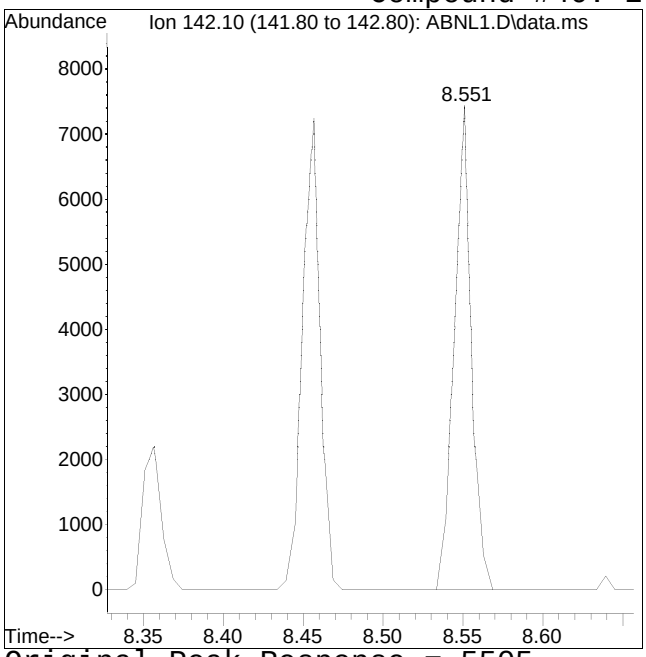
Sub List : ABNical - ABN ical sublistiical\ABNL6.D•

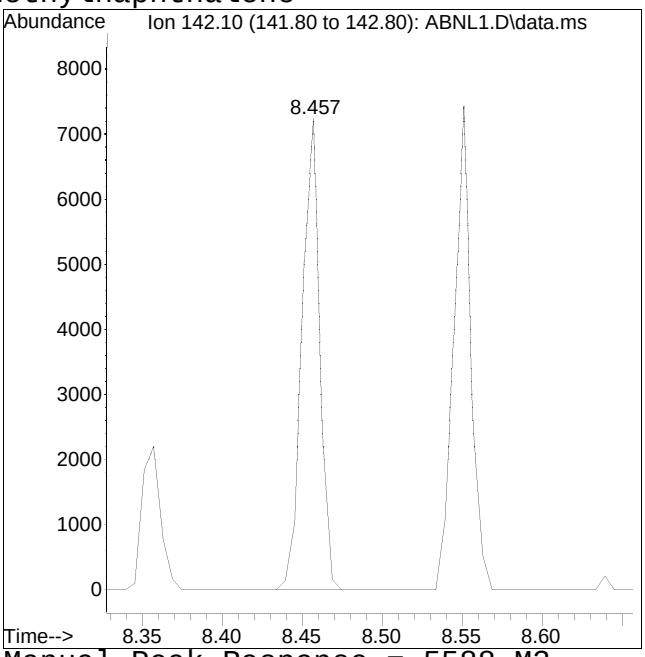


Manual Integration Report

Data Path : I:\8270\SV106\230902lviicaQMethod : FS230902SV106.m
Data File : ABNL1.D Operator : SV106:ljg
Date Inj'd : 9/2/2023 3:47 pm Instrument : SV 106
Sample : IL10,32,,ABNL0.2 Lot# 1017Quant Date : 9/5/2023 11:13 am

Compound #40: 2-Methylnaphthalene





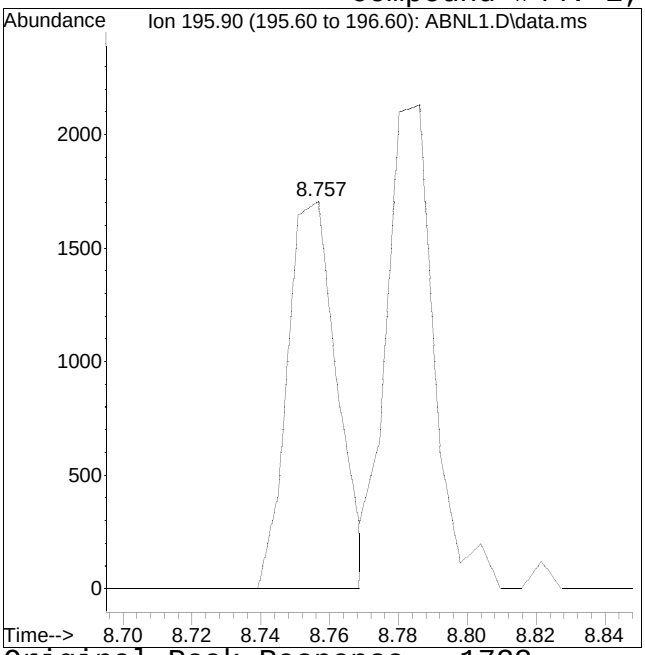
Original Peak Response = 5505 Manual Peak Response = 5588 M3

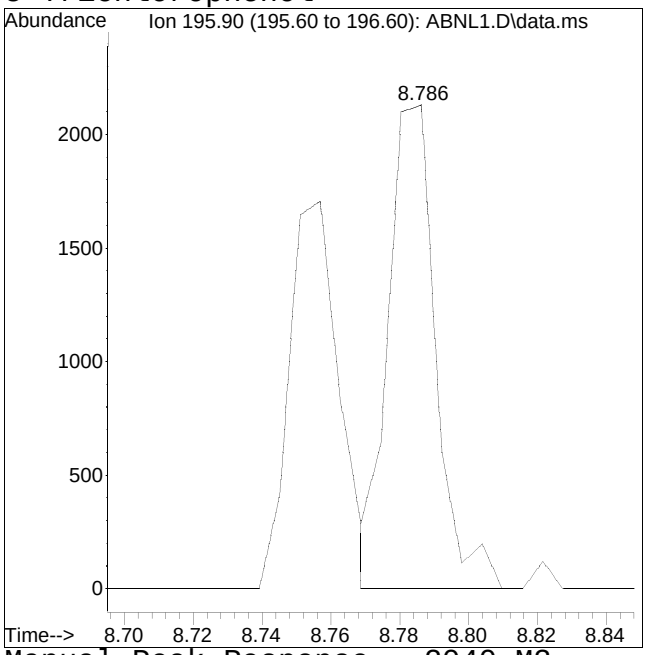
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\8270\SV106\230902lviicaQMethod : FS230902SV106.m
Data File : ABNL1.D Operator : SV106:ljg
Date Inj'd : 9/2/2023 3:47 pm Instrument : SV 106
Sample : IL10,32,,ABNL0.2 Lot# 1017Quant Date : 9/5/2023 11:13 am

Compound #44: 2,4,5-Trichlorophenol





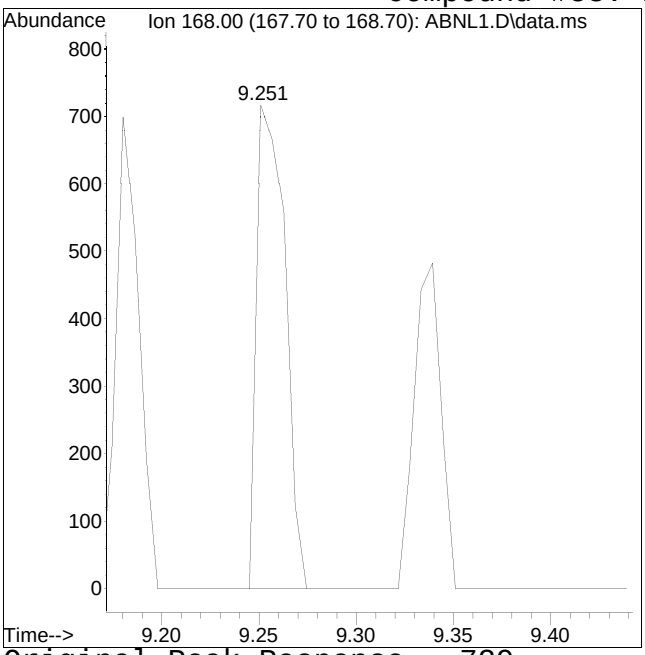
Original Peak Response = 1723 Manual Peak Response = 2040 M3

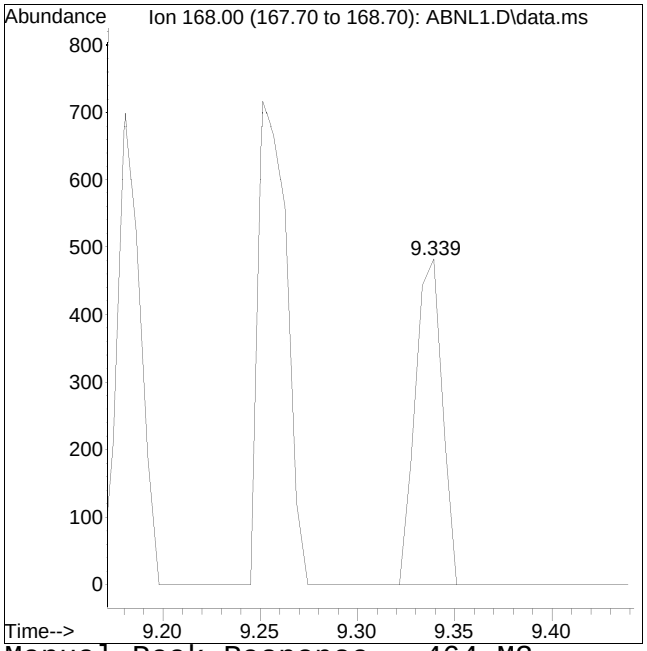
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\8270\SV106\230902lviicaQMethod : FS230902SV106.m
Data File : ABNL1.D Operator : SV106:ljg
Date Inj'd : 9/2/2023 3:47 pm Instrument : SV 106
Sample : IL10,32,,ABNL0.2 Lot# 1017Quant Date : 9/5/2023 11:13 am

Compound #53: 1,2-Dinitrobenzene



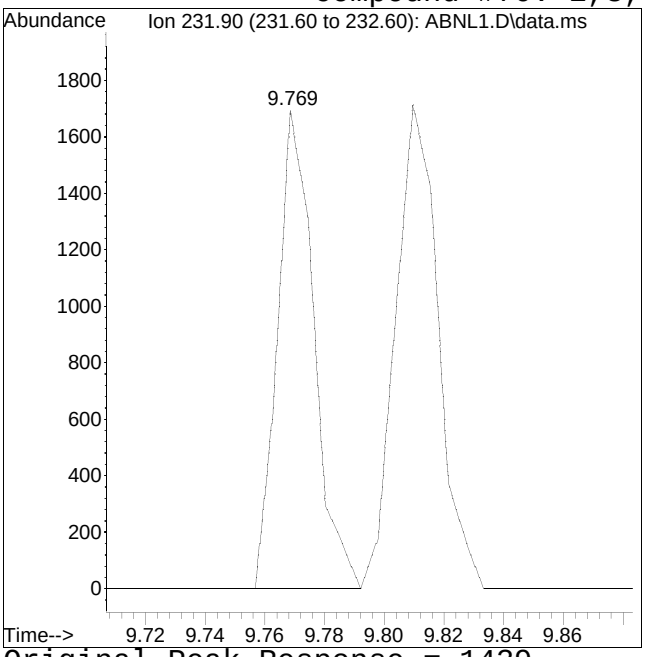


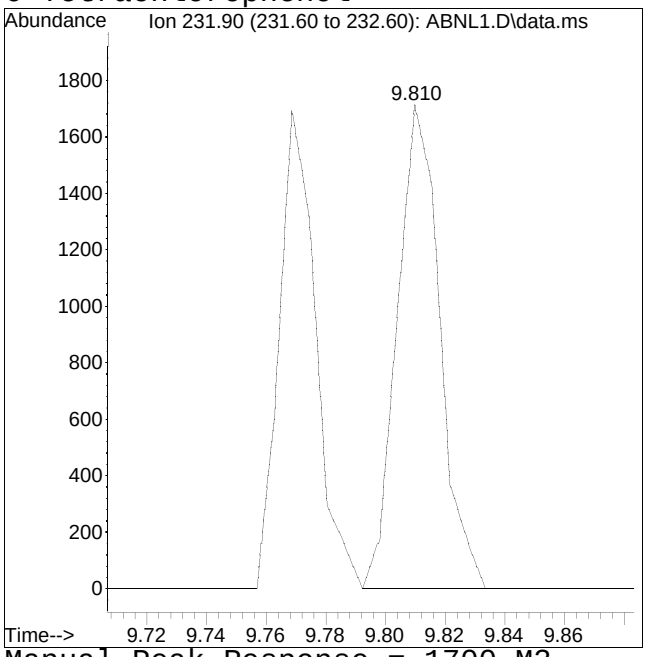
Original Peak Response = 729 Manual Peak Response = 464 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\8270\SV106\230902lviicaQMethod : FS230902SV106.m
Data File : ABNL1.D Operator : SV106:ljg
Date Inj'd : 9/2/2023 3:47 pm Instrument : SV 106
Sample : IL10,32,,ABNL0.2 Lot# 1017Quant Date : 9/5/2023 11:13 am

Compound #70: 2,3,4,6-Tetrachlorophenol





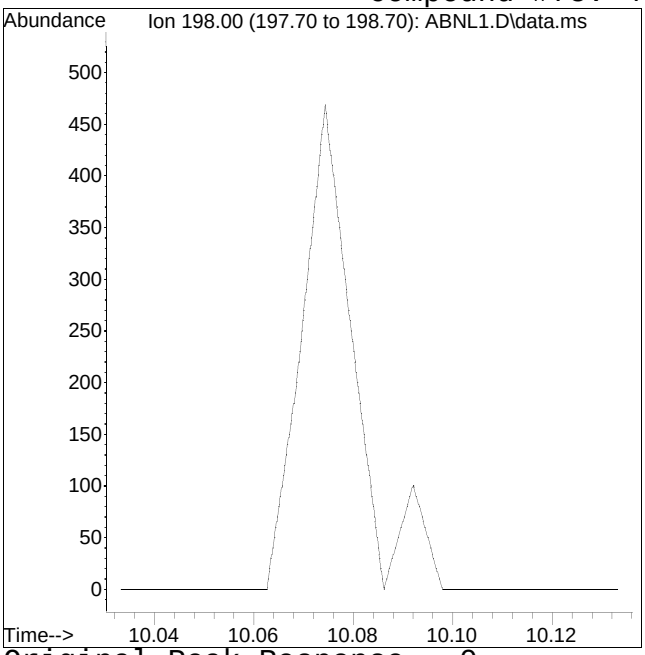
Original Peak Response = 1439 Manual Peak Response = 1700 M3

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

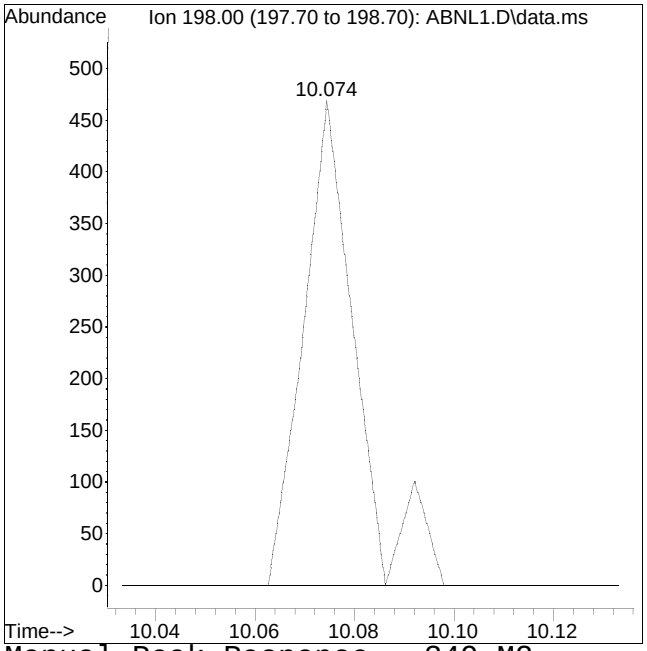
Manual Integration Report

Data Path : I:\8270\SV106\230902lviicaQMethod : FS230902SV106.m
Data File : ABNL1.D Operator : SV106:ljg
Date Inj'd : 9/2/2023 3:47 pm Instrument : SV 106
Sample : IL10,32,,ABNL0.2 Lot# 1017Quant Date : 9/5/2023 11:13 am

Compound #75: 4,6-Dinitro-o-cresol



Original Peak Response = 0



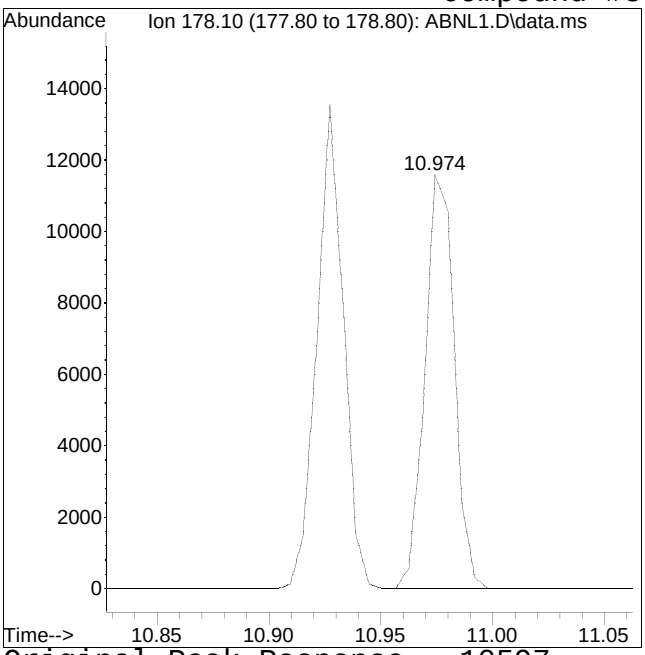
Manual Peak Response = 349 M2

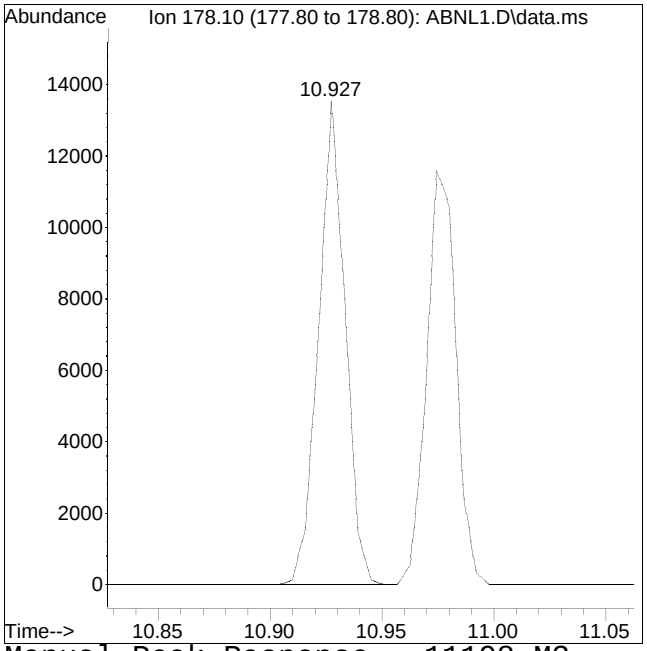
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\8270\SV106\230902lviicaQMethod : FS230902SV106.m
Data File : ABNL1.D Operator : SV106:ljg
Date Inj'd : 9/2/2023 3:47 pm Instrument : SV 106
Sample : IL10,32,,ABNL0.2 Lot# 1017Quant Date : 9/5/2023 11:13 am

Compound #88: Phenanthrene



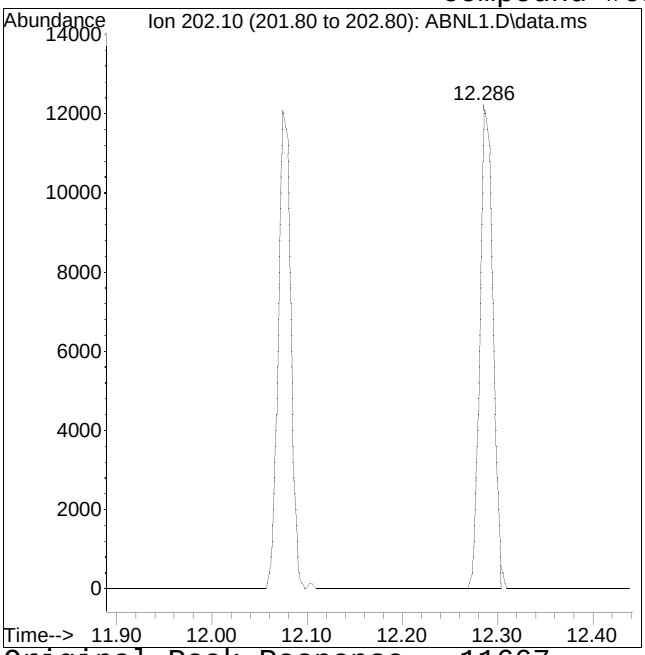


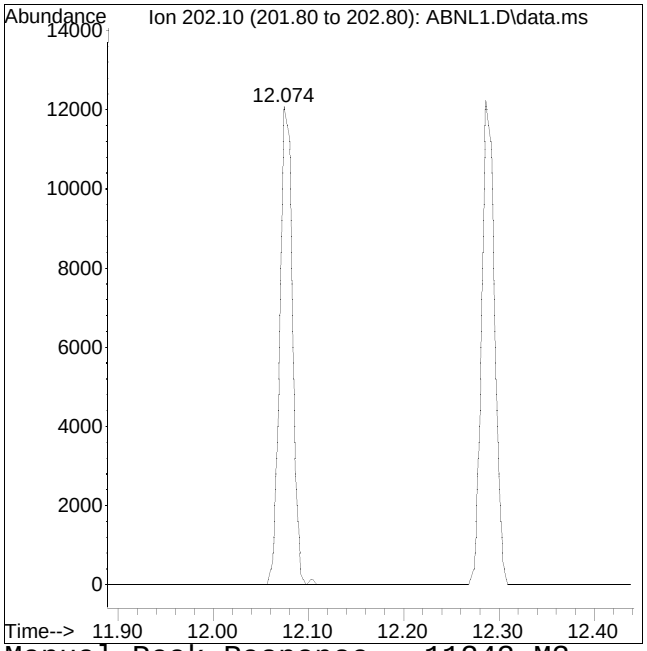
Original Peak Response = 10597 Manual Peak Response = 11198 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\8270\SV106\230902lviicaQMethod : FS230902SV106.m
Data File : ABNL1.D Operator : SV106:ljg
Date Inj'd : 9/2/2023 3:47 pm Instrument : SV 106
Sample : IL10,32,,ABNL0.2 Lot# 1017Quant Date : 9/5/2023 11:13 am

Compound #92: Fluoranthene



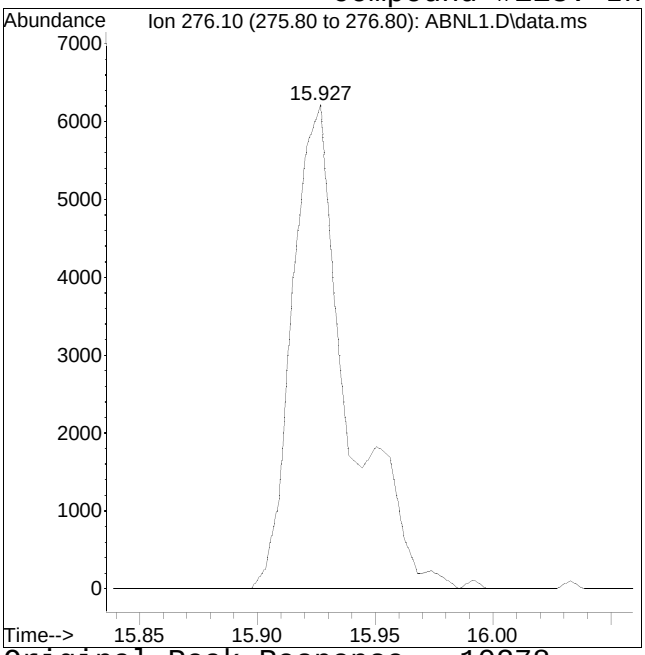


Original Peak Response = 11667 Manual Peak Response = 11243 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

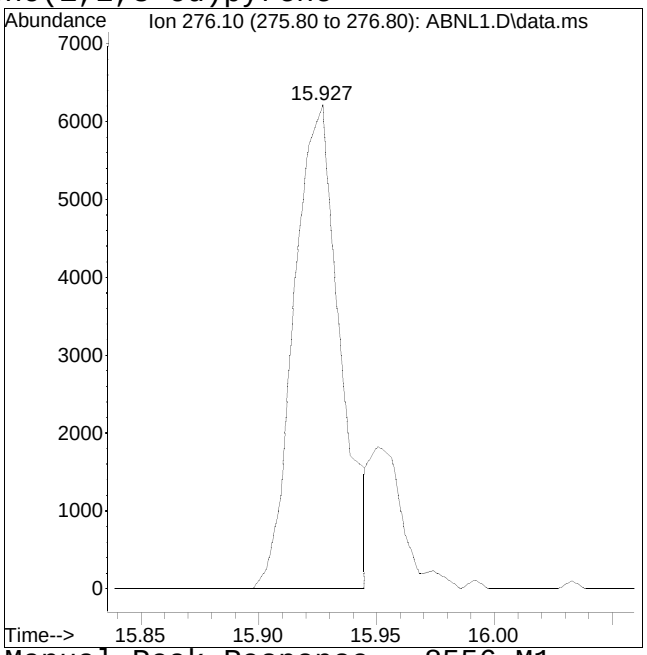
Manual Integration Report

Data Path : I:\8270\SV106\230902lviicaQMethod : FS230902SV106.m
Data File : ABNL1.D Operator : SV106:ljg
Date Inj'd : 9/2/2023 3:47 pm Instrument : SV 106
Sample : IL10,32,,ABNL0.2 Lot# 1017Quant Date : 9/5/2023 11:13 am

Compound #113: Indeno(1,2,3-cd)pyrene



Original Peak Response = 10278



Manual Peak Response = 8556 M1

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\230902lviical\
Data File : AP9L10.D
Acq On : 2 Sep 2023 4:10 pm
Operator : SV106:ljg
Sample : IL1,32,,AP9L50 Lot# 10078
Misc : WG1823680,,ical
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 05 11:17:39 2023
Quant Method : I:\8270\SV106\230902lviical\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 05 11:17:30 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\230902lviical\AP9L6.D
Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
27) IS2_1,4-Dichlorobenzen...	6.281	152	45275	4.000	ug/ml		0.00
Standard Area 1 = 44570			Recovery = 101.58%				
54) IS2_Naphthalene-d8	7.716	136	176312	4.000	ug/ml		0.00
Standard Area 1 = 169751			Recovery = 103.87%				
82) IS2_Acenaphthene-d10	9.474	164	97512	4.000	ug/ml		0.00
Standard Area 1 = 90319			Recovery = 107.96%				
97) IS2_Phenanthrene-d10	10.904	188	187379	4.000	ug/ml	#	0.00
Standard Area 1 = 182619			Recovery = 102.61%				
System Monitoring Compounds							
Target Compounds							Qvalue
28) Benzaldehyde	5.686	105	445512	49.797	ug/ml		96
29) Acetophenone	6.786	105	1078851	47.799	ug/ml	#	79
30) m-Toluidine	6.886	106	825985	47.087	ug/ml		96
31) 2-Chloroaniline	7.292	127	908829	48.068	ug/ml	#	93
55) a-Terpineol	7.798	59	606728	47.676	ug/ml	#	76
56) 3-Chloroaniline	7.810	65	304126	45.877	ug/ml		87
57) 2,6-Dichlorophenol	7.833	162	621902	51.006	ug/ml	#	89
58) 1-chloro-2-nitrobenzene	8.098	111	297021	51.418	ug/ml	#	1
59) Caprolactam	8.163	55	335868	51.965	ug/ml	#	69
60) 1,2,4,5-Tetrachloroben...	8.633	216	707897	46.163	ug/ml		99
61) Biphenyl	8.933	154	1766718	46.834	ug/ml		100
83) Dichloran	10.610	206	195928	49.484	ug/ml		88
84) Pentachloronitrobenzene	10.757	237	215251	49.570	ug/ml	#	83
98) Diphenamid	11.821	167	1261499	53.005	ug/ml		85

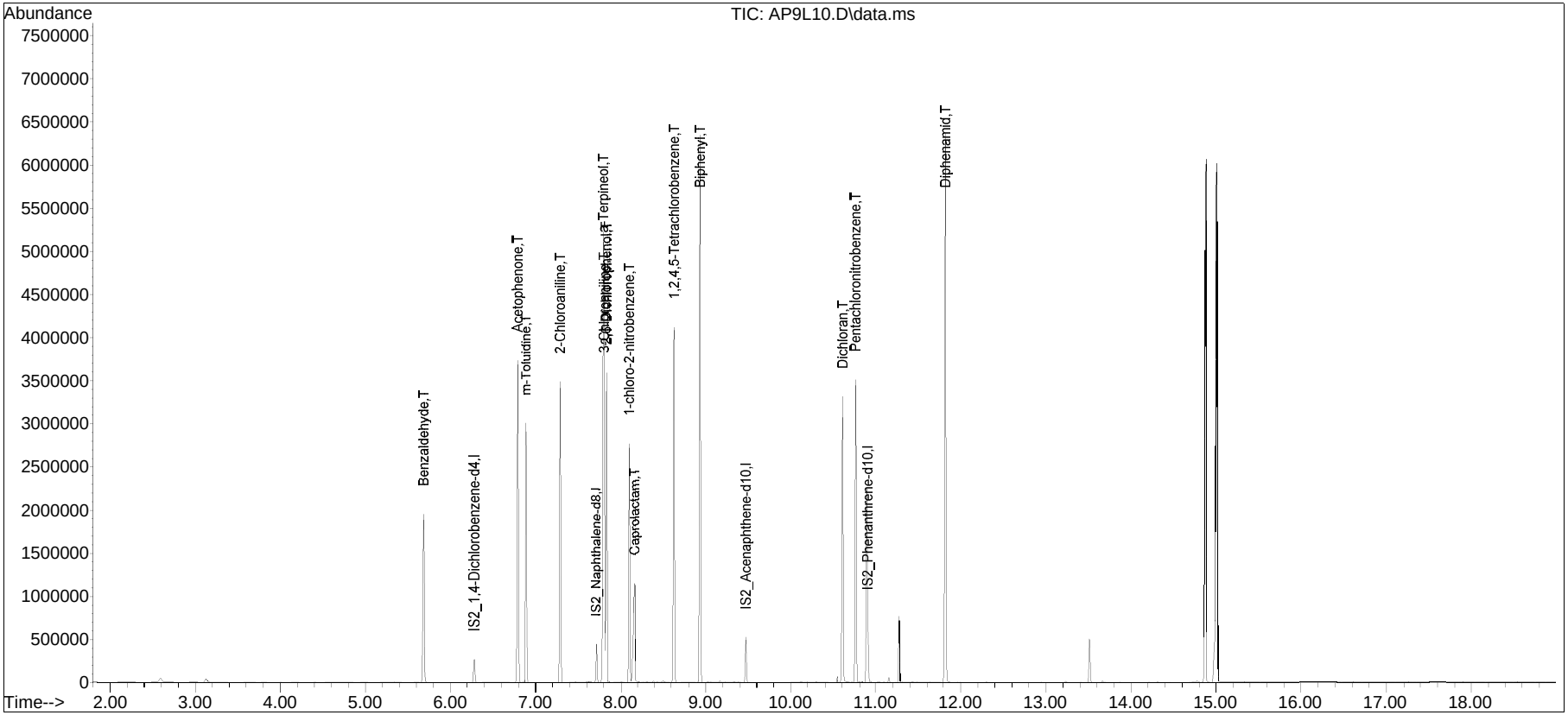
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\230902lviical\
Data File : AP9L10.D
Acq On : 2 Sep 2023 4:10 pm
Operator : SV106:ljg
Sample : IL1,32,,AP9L50 Lot# 10078
Misc : WG1823680,,ical
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 05 11:17:39 2023
Quant Method : I:\8270\SV106\230902lviical\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 05 11:17:30 2023
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistiical\AP9L6.D•



Manual Integration Report

Data Path	: I:\8270\SV106\230902lviica	QMethod	: FS230902SV106.m
Data File	: AP9L10.D	Operator	: SV106:ljg
Date Inj'd	: 9/2/2023 4:10 pm	Instrument	: SV 106
Sample	: IL1,32,,AP9L50 Lot# 10078	Quant Date	: 9/5/2023 11:17 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\230902lviical\
Data File : AP9L9.D
Acq On : 2 Sep 2023 4:34 pm
Operator : SV106:ljg
Sample : IL2,32,,AP9L35 Lot# 10080
Misc : WG1823680,,ical
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 05 11:19:04 2023
Quant Method : I:\8270\SV106\230902lviical\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 05 11:18:55 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\230902lviical\AP9L6.D
Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
27) IS2_1,4-Dichlorobenzen...	6.281	152	48158	4.000	ug/ml		0.00
Standard Area 1 = 44570			Recovery =	108.05%			
54) IS2_Naphthalene-d8	7.716	136	180345	4.000	ug/ml		0.00
Standard Area 1 = 169751			Recovery =	106.24%			
82) IS2_Acenaphthene-d10	9.475	164	99510	4.000	ug/ml		0.00
Standard Area 1 = 90319			Recovery =	110.18%			
97) IS2_Phenanthrene-d10	10.904	188	196438	4.000	ug/ml	#	0.00
Standard Area 1 = 182619			Recovery =	107.57%			
System Monitoring Compounds							
Target Compounds							Qvalue
28) Benzaldehyde	5.687	105	311762	32.529	ug/ml		96
29) Acetophenone	6.787	105	793417	33.048	ug/ml	#	79
30) m-Toluidine	6.887	106	582470	31.217	ug/ml		96
31) 2-Chloroaniline	7.292	127	665233	33.078	ug/ml		94
55) a-Terpineol	7.798	59	447990	34.415	ug/ml	#	77
56) 3-Chloroaniline	7.804	65	221394	32.650	ug/ml		88
57) 2,6-Dichlorophenol	7.834	162	450078	36.088	ug/ml		91
58) 1-chloro-2-nitrobenzene	8.098	111	218958	37.056	ug/ml	#	1
59) Caprolactam	8.157	55	252480	38.190	ug/ml	#	70
60) 1,2,4,5-Tetrachloroben...	8.633	216	524192	33.419	ug/ml		98
61) Biphenyl	8.933	154	1283400	33.261	ug/ml		99
83) Dichloran	10.610	206	146137	36.436	ug/ml	#	84
84) Pentachloronitrobenzene	10.757	237	159013	35.970	ug/ml	#	83
98) Diphenamid	11.821	167	913041	36.595	ug/ml		85

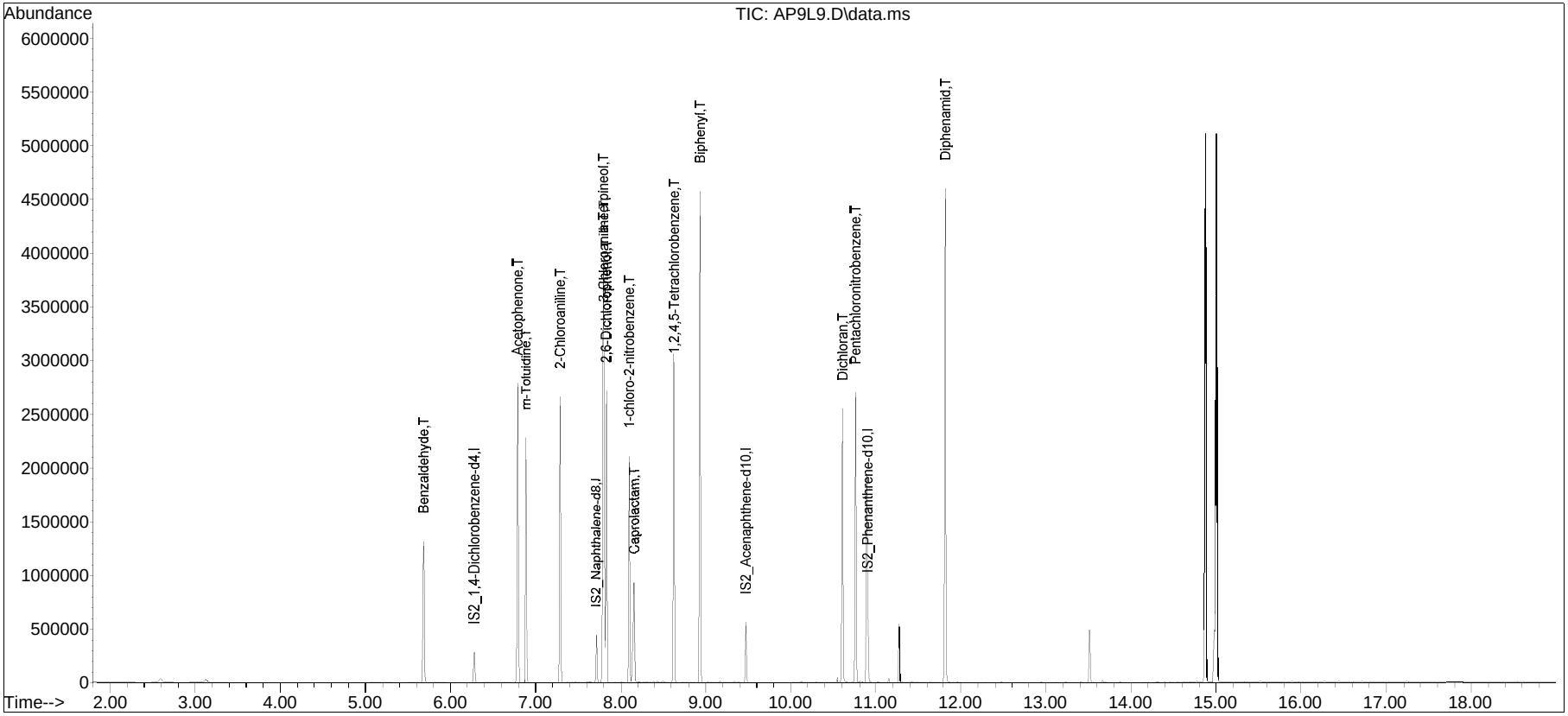
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\230902lviical\
Data File : AP9L9.D
Acq On : 2 Sep 2023 4:34 pm
Operator : SV106:ljg
Sample : IL2,32,,AP9L35 Lot# 10080
Misc : WG1823680,,ical
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 05 11:19:04 2023
Quant Method : I:\8270\SV106\230902lviical\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 05 11:18:55 2023
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistiical\AP9L6.D•



Manual Integration Report

Data Path	: I:\8270\SV106\230902lviica	QMethod	: FS230902SV106.m
Data File	: AP9L9.D	Operator	: SV106:ljg
Date Inj'd	: 9/2/2023 4:34 pm	Instrument	: SV 106
Sample	: IL2,32,,AP9L35 Lot# 10080	Quant Date	: 9/5/2023 11:18 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\230902lviical\
Data File : AP9L8.D
Acq On : 2 Sep 2023 4:58 pm
Operator : SV106:ljg
Sample : IL3,32,,AP9L15 Lot# 10081
Misc : WG1823680,,ical
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Sep 05 11:18:52 2023
Quant Method : I:\8270\SV106\230902lviical\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 05 11:18:44 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\230902lviical\AP9L6.D
Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
27) IS2_1,4-Dichlorobenzen...	6.281	152	47695	4.000	ug/ml		0.00
Standard Area 1 = 44570			Recovery =	107.01%			
54) IS2_Naphthalene-d8	7.716	136	180394	4.000	ug/ml		0.00
Standard Area 1 = 169751			Recovery =	106.27%			
82) IS2_Acenaphthene-d10	9.474	164	100461	4.000	ug/ml		0.00
Standard Area 1 = 90319			Recovery =	111.23%			
97) IS2_Phenanthrene-d10	10.904	188	197228	4.000	ug/ml	#	0.00
Standard Area 1 = 182619			Recovery =	108.00%			
System Monitoring Compounds							
Target Compounds							Qvalue
28) Benzaldehyde	5.686	105	143247	14.728	ug/ml		97
29) Acetophenone	6.786	105	323729	13.615	ug/ml	#	80
30) m-Toluidine	6.886	106	256365	13.873	ug/ml		95
31) 2-Chloroaniline	7.292	127	276428	13.878	ug/ml		94
55) a-Terpineol	7.792	59	181511	13.940	ug/ml	#	77
56) 3-Chloroaniline	7.804	65	93871	13.840	ug/ml		87
57) 2,6-Dichlorophenol	7.833	162	182547	14.633	ug/ml	#	90
58) 1-chloro-2-nitrobenzene	8.098	111	88077	14.902	ug/ml	#	1
59) Caprolactam	8.139	55	99856	15.100	ug/ml	#	71
60) 1,2,4,5-Tetrachloroben...	8.627	216	213797	13.627	ug/ml		99
61) Biphenyl	8.933	154	530868	13.754	ug/ml		99
83) Dichloran	10.610	206	52291	13.559	ug/ml		88
84) Pentachloronitrobenzene	10.757	237	62096	14.105	ug/ml	#	81
98) Diphenamid	11.821	167	361777	14.442	ug/ml		85

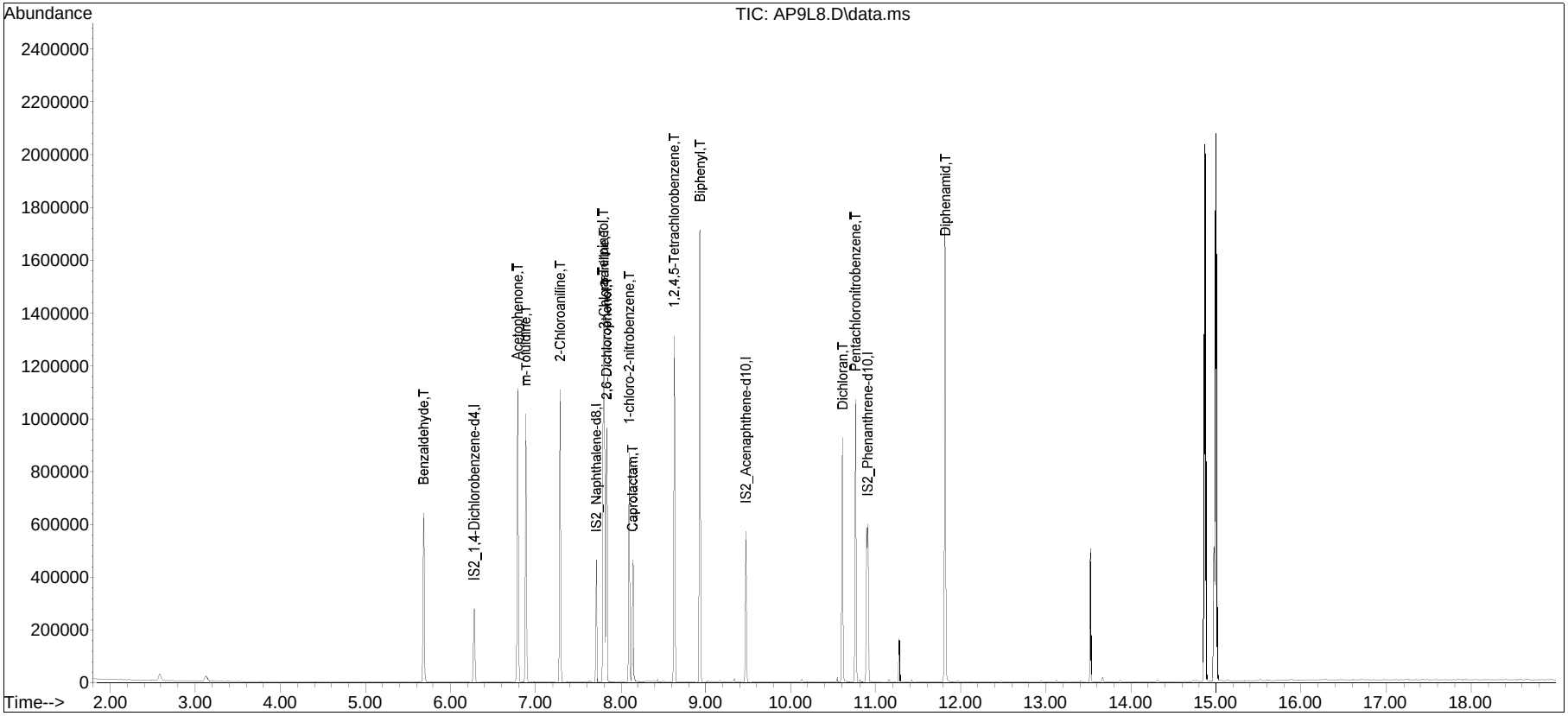
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\230902lviical\
Data File : AP9L8.D
Acq On : 2 Sep 2023 4:58 pm
Operator : SV106:ljg
Sample : IL3,32,,AP9L15 Lot# 10081
Misc : WG1823680,,ical
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Sep 05 11:18:52 2023
Quant Method : I:\8270\SV106\230902lviical\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 05 11:18:44 2023
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistiical\AP9L6.D•



Manual Integration Report

Data Path	: I:\8270\SV106\230902lviica	QMethod	: FS230902SV106.m
Data File	: AP9L8.D	Operator	: SV106:ljg
Date Inj'd	: 9/2/2023 4:58 pm	Instrument	: SV 106
Sample	: IL3,32,,AP9L15 Lot# 10081	Quant Date	: 9/5/2023 11:18 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\230902lviical\
Data File : AP9L7.D
Acq On : 2 Sep 2023 5:21 pm
Operator : SV106:ljg
Sample : IL4,32,,AP9L10 Lot# 10082
Misc : WG1823680,,ical
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 05 11:18:42 2023
Quant Method : I:\8270\SV106\230902lviical\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 05 11:18:34 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\230902lviical\AP9L6.D
Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
27) IS2_1,4-Dichlorobenzen...	6.281	152	43599	4.000	ug/ml	0.00
Standard Area 1 = 44570			Recovery = 97.82%			
54) IS2_Naphthalene-d8	7.716	136	168106	4.000	ug/ml	0.00
Standard Area 1 = 169751			Recovery = 99.03%			
82) IS2_Acenaphthene-d10	9.475	164	91653	4.000	ug/ml	0.00
Standard Area 1 = 90319			Recovery = 101.48%			
97) IS2_Phenanthrene-d10	10.904	188	184426	4.000	ug/ml	0.00
Standard Area 1 = 182619			Recovery = 100.99%			
System Monitoring Compounds						
Target Compounds						Qvalue
28) Benzaldehyde	5.687	105	100921	11.196	ug/ml	97
29) Acetophenone	6.787	105	206878	9.518	ug/ml#	80
30) m-Toluidine	6.887	106	171545	10.155	ug/ml	97
31) 2-Chloroaniline	7.292	127	177077	9.726	ug/ml#	94
55) a-Terpineol	7.792	59	114841	9.465	ug/ml#	77
56) 3-Chloroaniline	7.804	65	62140	9.831	ug/ml	86
57) 2,6-Dichlorophenol	7.828	162	114456	9.845	ug/ml#	90
58) 1-chloro-2-nitrobenzene	8.098	111	53867	9.780	ug/ml#	1
59) Caprolactam	8.139	55	63110	10.241	ug/ml#	68
60) 1,2,4,5-Tetrachloroben...	8.628	216	135641	9.277	ug/ml	99
61) Biphenyl	8.928	154	336317	9.351	ug/ml	100
83) Dichloran	10.610	206	30724	9.087	ug/ml	90
84) Pentachloronitrobenzene	10.757	237	37798	9.515	ug/ml#	85
98) Diphenamid	11.816	167	234771	10.022	ug/ml#	82

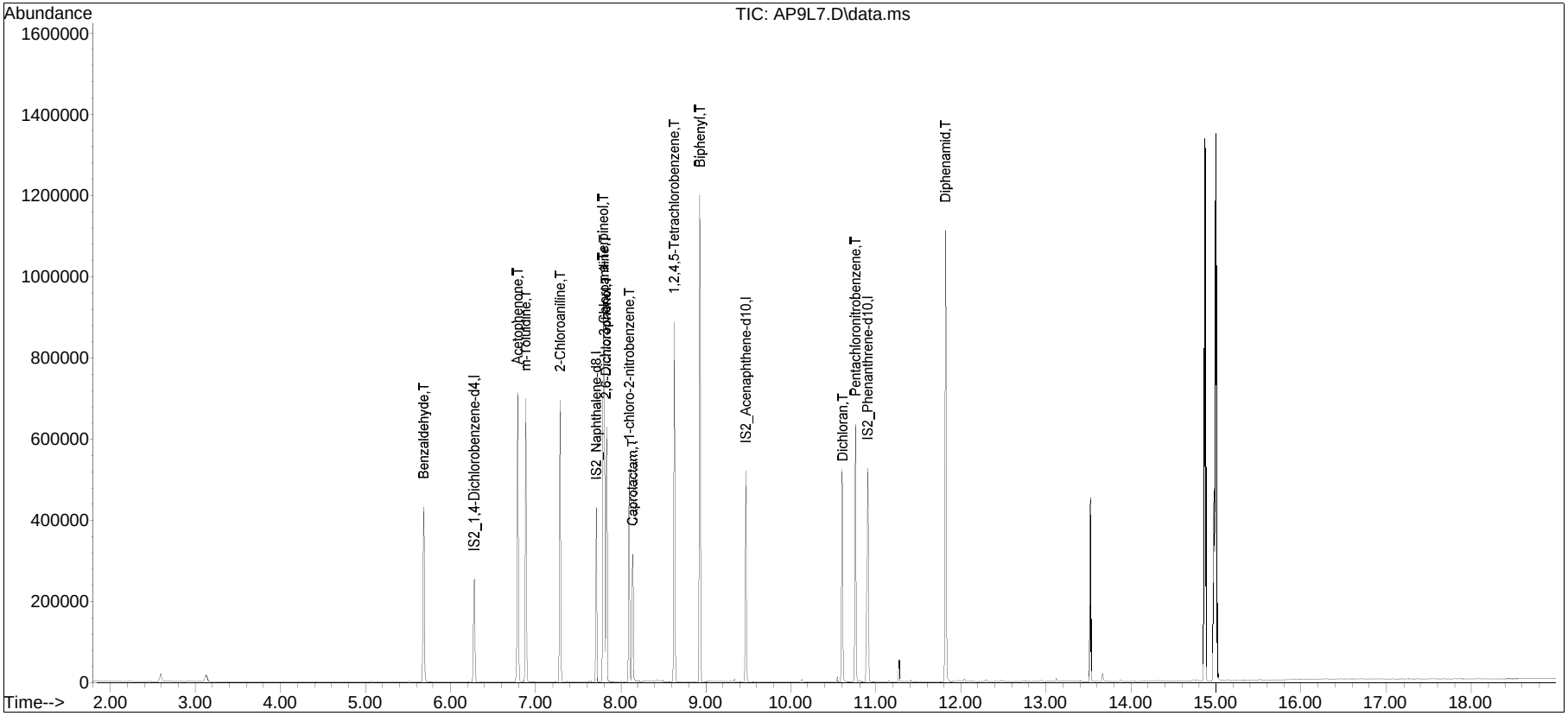
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\230902lviical\
Data File : AP9L7.D
Acq On : 2 Sep 2023 5:21 pm
Operator : SV106:ljg
Sample : IL4,32,,AP9L10 Lot# 10082
Misc : WG1823680,,ical
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 05 11:18:42 2023
Quant Method : I:\8270\SV106\230902lviical\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 05 11:18:34 2023
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistiical\AP9L6.D•



Manual Integration Report

Data Path	: I:\8270\SV106\230902lviica	QMethod	: FS230902SV106.m
Data File	: AP9L7.D	Operator	: SV106:ljg
Date Inj'd	: 9/2/2023 5:21 pm	Instrument	: SV 106
Sample	: IL4,32,,AP9L10 Lot# 10082	Quant Date	: 9/5/2023 11:18 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\230902lviical\
Data File : AP9L6.D
Acq On : 2 Sep 2023 5:45 pm
Operator : SV106:ljg
Sample : IL5,32,,AP9L5 Lot# 10083
Misc : WG1823680,,ical
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 05 11:18:31 2023
Quant Method : I:\8270\SV106\230902lviical\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 05 11:18:23 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\230902lviical\AP9L6.D
Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
27) IS2_1,4-Dichlorobenzen...	6.281	152	44570	4.000	ug/ml		0.00
Standard Area 1 = 44570			Recovery =	100.00%			
54) IS2_Naphthalene-d8	7.716	136	169751	4.000	ug/ml		0.00
Standard Area 1 = 169751			Recovery =	100.00%			
82) IS2_Acenaphthene-d10	9.475	164	90319	4.000	ug/ml		0.00
Standard Area 1 = 90319			Recovery =	100.00%			
97) IS2_Phenanthrene-d10	10.904	188	182619	4.000	ug/ml	#	0.00
Standard Area 1 = 182619			Recovery =	100.00%			
System Monitoring Compounds							
Target Compounds							Qvalue
28) Benzaldehyde	5.687	105	72359	7.650	ug/ml		100
29) Acetophenone	6.787	105	144135	6.487	ug/ml	#	79
30) m-Toluidine	6.887	106	121548	7.039	ug/ml		97
31) 2-Chloroaniline	7.292	127	122731	6.594	ug/ml	#	93
55) a-Terpineol	7.792	59	79745	6.508	ug/ml	#	76
56) 3-Chloroaniline	7.804	65	42863	6.716	ug/ml		87
57) 2,6-Dichlorophenol	7.828	162	80147	6.827	ug/ml	#	89
58) 1-chloro-2-nitrobenzene	8.098	111	37011	6.655	ug/ml	#	1
59) Caprolactam	8.134	55	42186	6.779	ug/ml	#	66
60) 1,2,4,5-Tetrachloroben...	8.628	216	94610	6.408	ug/ml		99
61) Biphenyl	8.928	154	237100	6.528	ug/ml		100
83) Dichloran	10.610	206	19227	6.135	ug/ml		90
84) Pentachloronitrobenzene	10.757	237	24999	6.488	ug/ml	#	85
98) Diphenamid	11.816	167	159499	6.876	ug/ml		85

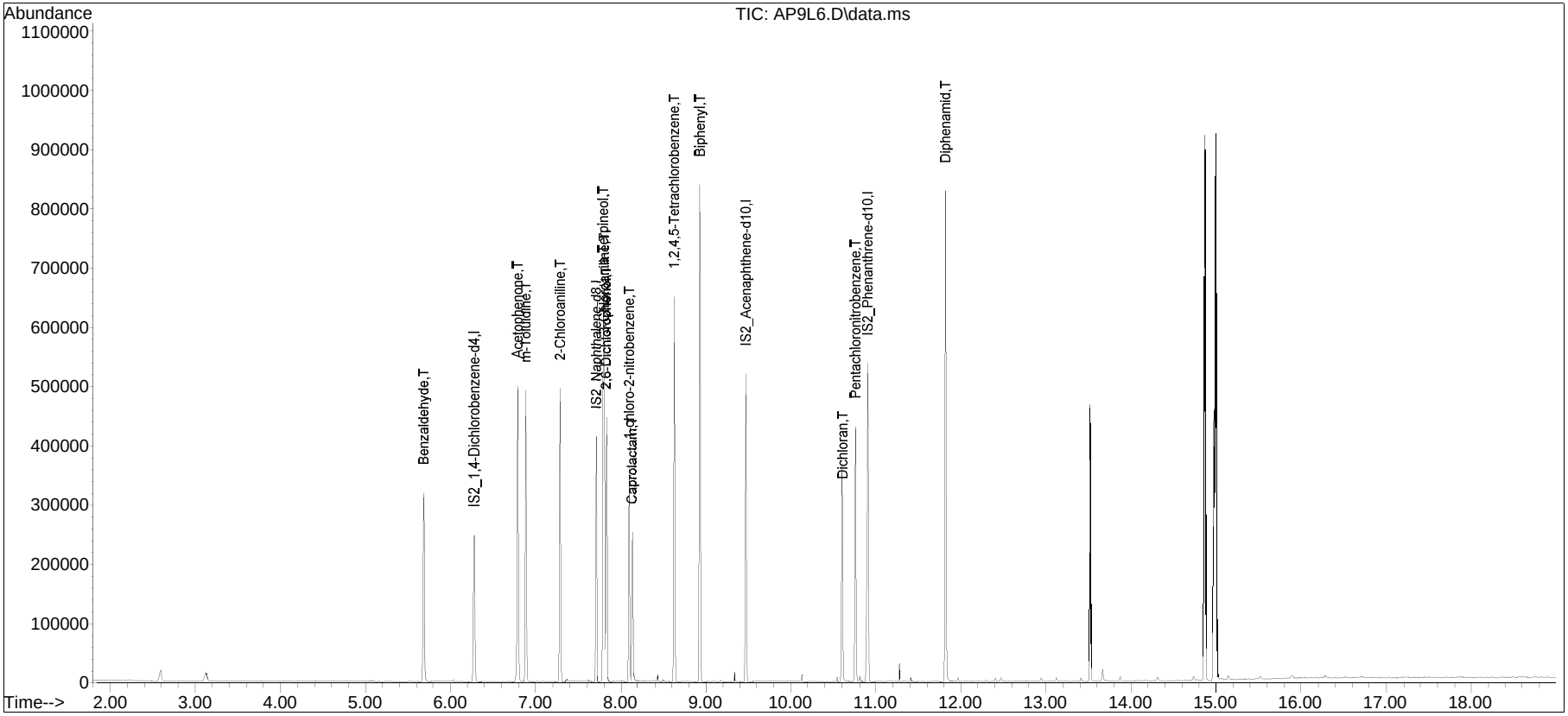
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\230902lviical\
Data File : AP9L6.D
Acq On : 2 Sep 2023 5:45 pm
Operator : SV106:ljg
Sample : IL5,32,,AP9L5 Lot# 10083
Misc : WG1823680,,ical
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 05 11:18:31 2023
Quant Method : I:\8270\SV106\230902lviical\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 05 11:18:23 2023
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistiical\AP9L6.D•



Manual Integration Report

Data Path	: I:\8270\SV106\230902lviica	QMethod	: FS230902SV106.m
Data File	: AP9L6.D	Operator	: SV106:ljg
Date Inj'd	: 9/2/2023 5:45 pm	Instrument	: SV 106
Sample	: IL5,32,,AP9L5 Lot# 10083	Quant Date	: 9/5/2023 11:18 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\230902lviical\
Data File : AP9L5.D
Acq On : 2 Sep 2023 6:09 pm
Operator : SV106:ljg
Sample : IL6,32,,AP9L3 Lot# 10084
Misc : WG1823680,,ical
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Sep 05 11:18:20 2023
Quant Method : I:\8270\SV106\230902lviical\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 05 11:18:12 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\230902lviical\AP9L6.D
Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
27) IS2_1,4-Dichlorobenzen...	6.281	152	41203	4.000	ug/ml	0.00
Standard Area 1 = 44570			Recovery = 92.45%			
54) IS2_Naphthalene-d8	7.716	136	158379	4.000	ug/ml	# 0.00
Standard Area 1 = 169751			Recovery = 93.30%			
82) IS2_Acenaphthene-d10	9.475	164	85579	4.000	ug/ml	0.00
Standard Area 1 = 90319			Recovery = 94.75%			
97) IS2_Phenanthrene-d10	10.904	188	172049	4.000	ug/ml	# 0.00
Standard Area 1 = 182619			Recovery = 94.21%			
System Monitoring Compounds						
Target Compounds						Qvalue
28) Benzaldehyde	5.692	105	27335	2.726	ug/ml	98
29) Acetophenone	6.786	105	58796	2.862	ug/ml#	81
30) m-Toluidine	6.886	106	44327	2.777	ug/ml	96
31) 2-Chloroaniline	7.292	127	48104	2.796	ug/ml#	92
55) a-Terpineol	7.792	59	31750	2.777	ug/ml#	78
56) 3-Chloroaniline	7.804	65	17277	2.901	ug/ml	82
57) 2,6-Dichlorophenol	7.828	162	31233	2.852	ug/ml#	87
58) 1-chloro-2-nitrobenzene	8.098	111	13654	2.631	ug/ml#	1
59) Caprolactam	8.128	55	16002	2.756	ug/ml#	64
60) 1,2,4,5-Tetrachloroben...	8.627	216	37844	2.747	ug/ml	98
61) Biphenyl	8.927	154	94300	2.783	ug/ml	98
83) Dichloran	10.604	206	7164	3.018	ug/ml	86
84) Pentachloronitrobenzene	10.757	237	9045	2.670	ug/ml#	84
98) Diphenamid	11.816	167	61174	2.799	ug/ml	85

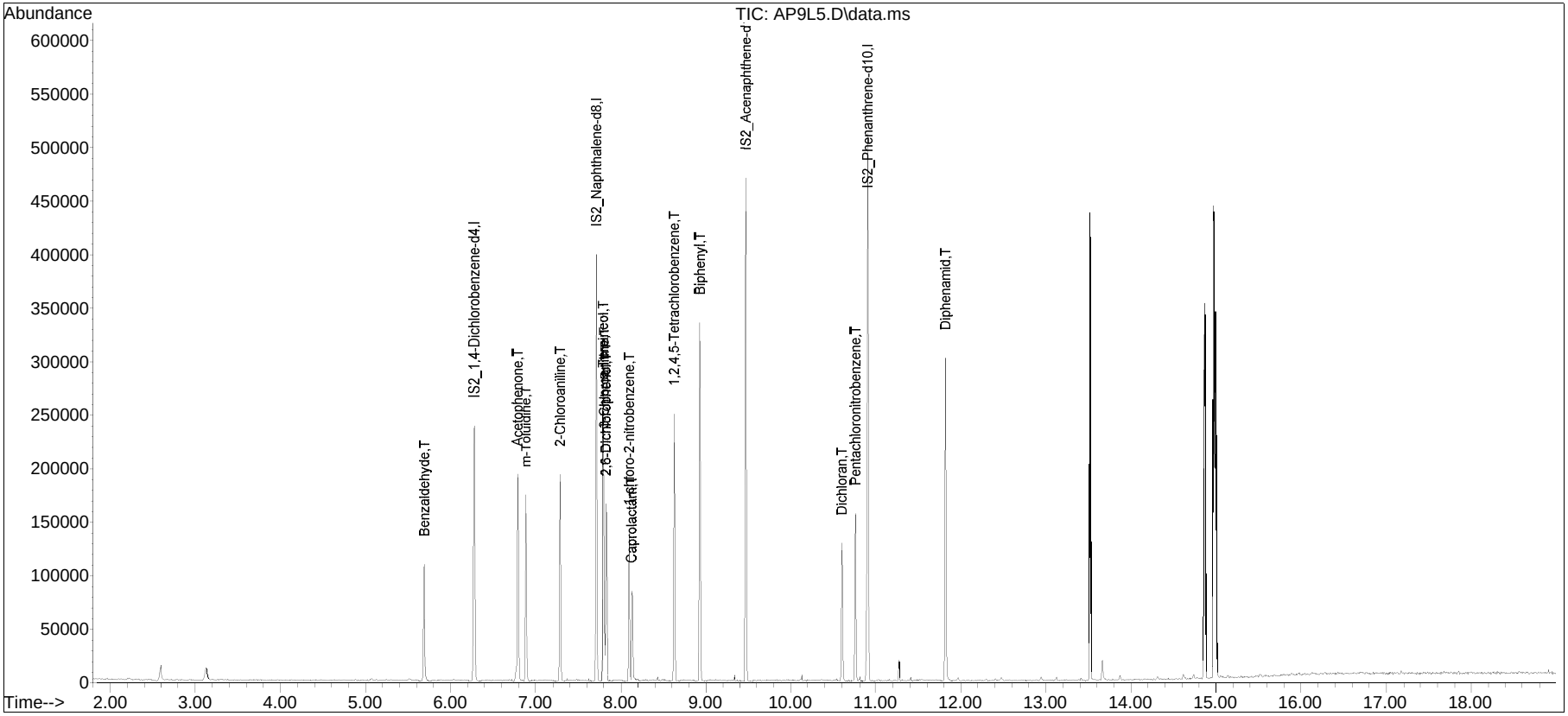
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\230902lviical\
Data File : AP9L5.D
Acq On : 2 Sep 2023 6:09 pm
Operator : SV106:ljg
Sample : IL6,32,,AP9L3 Lot# 10084
Misc : WG1823680,,ical
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Sep 05 11:18:20 2023
Quant Method : I:\8270\SV106\230902lviical\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 05 11:18:12 2023
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistiical\AP9L6.D•



Manual Integration Report

Data Path	: I:\8270\SV106\230902lviica	QMethod	: FS230902SV106.m
Data File	: AP9L5.D	Operator	: SV106:ljg
Date Inj'd	: 9/2/2023 6:09 pm	Instrument	: SV 106
Sample	: IL6,32,,AP9L3 Lot# 10084	Quant Date	: 9/5/2023 11:18 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\230902lviical\
Data File : AP9L4.D
Acq On : 2 Sep 2023 6:32 pm
Operator : SV106:ljg
Sample : IL7,32,,AP9L2 Lot# 10085
Misc : WG1823680,,ical
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Sep 05 11:18:10 2023
Quant Method : I:\8270\SV106\230902lviical\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 05 11:18:02 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\230902lviical\AP9L6.D
Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
27) IS2_1,4-Dichlorobenzen...	6.281	152	44171	4.000	ug/ml	0.00
Standard Area 1 = 44570			Recovery = 99.10%			
54) IS2_Naphthalene-d8	7.716	136	164873	4.000	ug/ml	# 0.00
Standard Area 1 = 169751			Recovery = 97.13%			
82) IS2_Acenaphthene-d10	9.475	164	90708	4.000	ug/ml	0.00
Standard Area 1 = 90319			Recovery = 100.43%			
97) IS2_Phenanthrene-d10	10.904	188	180073	4.000	ug/ml	# 0.00
Standard Area 1 = 182619			Recovery = 98.61%			
System Monitoring Compounds						
Target Compounds						Qvalue
28) Benzaldehyde	5.693	105	20272	1.677	ug/ml	96
29) Acetophenone	6.787	105	40328	1.831	ug/ml#	81
30) m-Toluidine	6.887	106	31837	1.860	ug/ml	96
31) 2-Chloroaniline	7.292	127	33601	1.822	ug/ml	94
55) a-Terpineol	7.792	59	21980	1.847	ug/ml#	76
56) 3-Chloroaniline	7.804	65	11981	1.933	ug/ml	85
57) 2,6-Dichlorophenol	7.828	162	20969	1.839	ug/ml	91
58) 1-chloro-2-nitrobenzene	8.098	111	9531	1.764	ug/ml#	1
59) Caprolactam	8.128	55	10668	1.765	ug/ml#	65
60) 1,2,4,5-Tetrachloroben...	8.628	216	27496	1.917	ug/ml	99
61) Biphenyl	8.928	154	65768	1.864	ug/ml	97
83) Dichloran	10.604	206	4819	2.280	ug/ml	91
84) Pentachloronitrobenzene	10.757	237	5491	1.663	ug/ml#	83
98) Diphenamid	11.816	167	42653	1.865	ug/ml	85

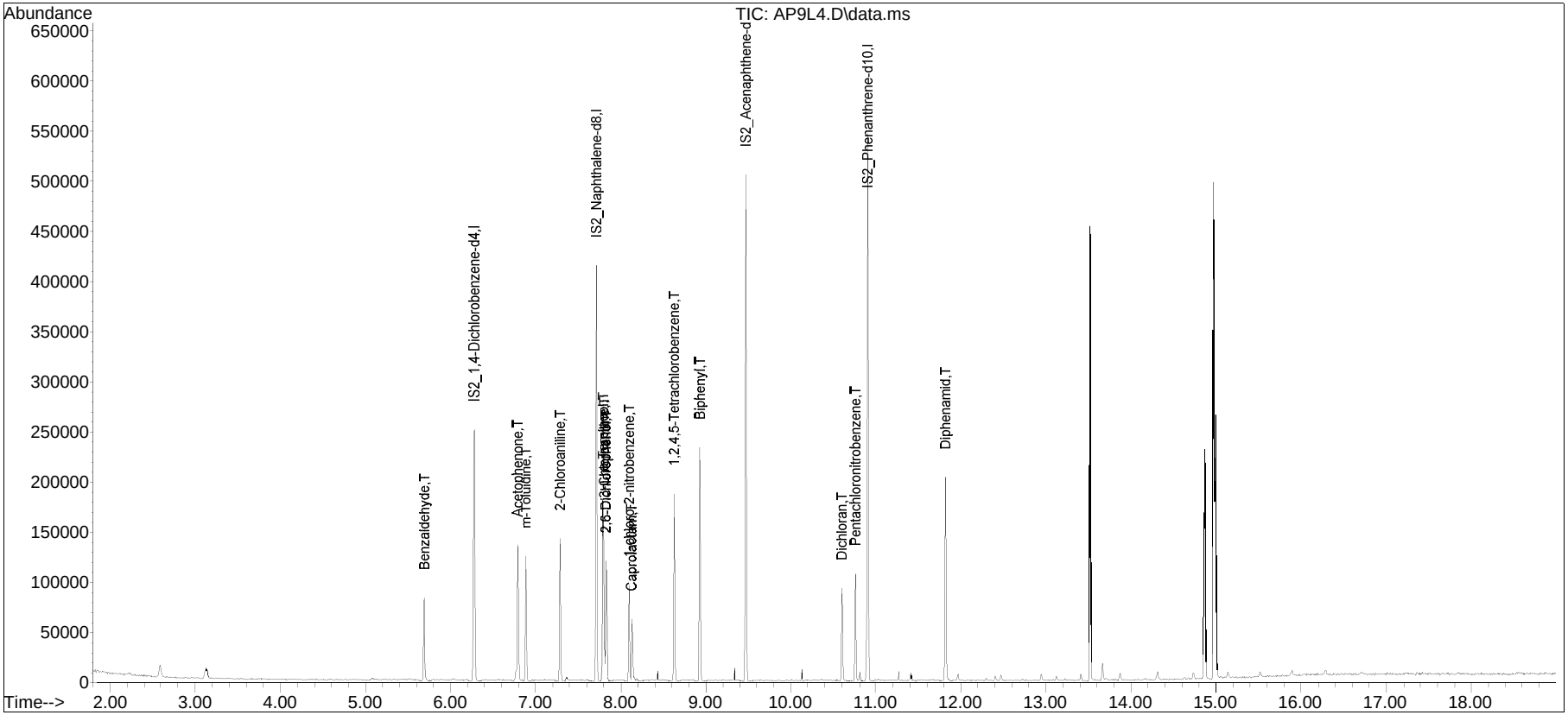
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\230902lviical\
Data File : AP9L4.D
Acq On : 2 Sep 2023 6:32 pm
Operator : SV106:ljg
Sample : IL7,32,,AP9L2 Lot# 10085
Misc : WG1823680,,ical
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Sep 05 11:18:10 2023
Quant Method : I:\8270\SV106\230902lviical\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 05 11:18:02 2023
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistiical\AP9L6.D•



Manual Integration Report

Data Path	: I:\8270\SV106\230902lviica	QMethod	: FS230902SV106.m
Data File	: AP9L4.D	Operator	: SV106:ljg
Date Inj'd	: 9/2/2023 6:32 pm	Instrument	: SV 106
Sample	: IL7,32,,AP9L2 Lot# 10085	Quant Date	: 9/5/2023 11:18 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\230902lviical\
Data File : AP9L3.D
Acq On : 2 Sep 2023 6:56 pm
Operator : SV106:ljg
Sample : IL8,32,,AP9L1 Lot# 10086
Misc : WG1823680,,ical
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Sep 05 11:18:00 2023
Quant Method : I:\8270\SV106\230902lviical\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 05 11:17:52 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\230902lviical\AP9L6.D
Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
27) IS2_1,4-Dichlorobenzen...	6.281	152	42889	4.000	ug/ml	0.00
Standard Area 1 = 44570			Recovery = 96.23%			
54) IS2_Naphthalene-d8	7.716	136	159944	4.000	ug/ml	0.00
Standard Area 1 = 169751			Recovery = 94.22%			
82) IS2_Acenaphthene-d10	9.475	164	87457	4.000	ug/ml	0.00
Standard Area 1 = 90319			Recovery = 96.83%			
97) IS2_Phenanthrene-d10	10.904	188	177883	4.000	ug/ml	0.00
Standard Area 1 = 182619			Recovery = 97.41%			
System Monitoring Compounds						
Target Compounds						Qvalue
28) Benzaldehyde	5.692	105	11486	0.696	ug/ml	92
29) Acetophenone	6.786	105	20985	0.981	ug/ml#	79
30) m-Toluidine	6.886	106	15994	0.962	ug/ml	95
31) 2-Chloroaniline	7.292	127	18188	1.015	ug/ml#	92
55) a-Terpineol	7.792	59	10937	0.947	ug/ml#	72
56) 3-Chloroaniline	7.804	65	6126	1.019	ug/ml	87
57) 2,6-Dichlorophenol	7.833	162	9769	0.883	ug/ml	89
58) 1-chloro-2-nitrobenzene	8.098	111	5106	0.974	ug/ml#	1
59) Caprolactam	8.133	55	5276	0.900	ug/ml#	75
60) 1,2,4,5-Tetrachloroben...	8.627	216	13460	0.968	ug/ml	95
61) Biphenyl	8.927	154	33563	0.981	ug/ml	99
83) Dichloran	10.604	206	2435	1.670	ug/ml	83
84) Pentachloronitrobenzene	10.757	237	2768	1.018	ug/ml	93
98) Diphenamid	11.816	167	20195	0.894	ug/ml	85

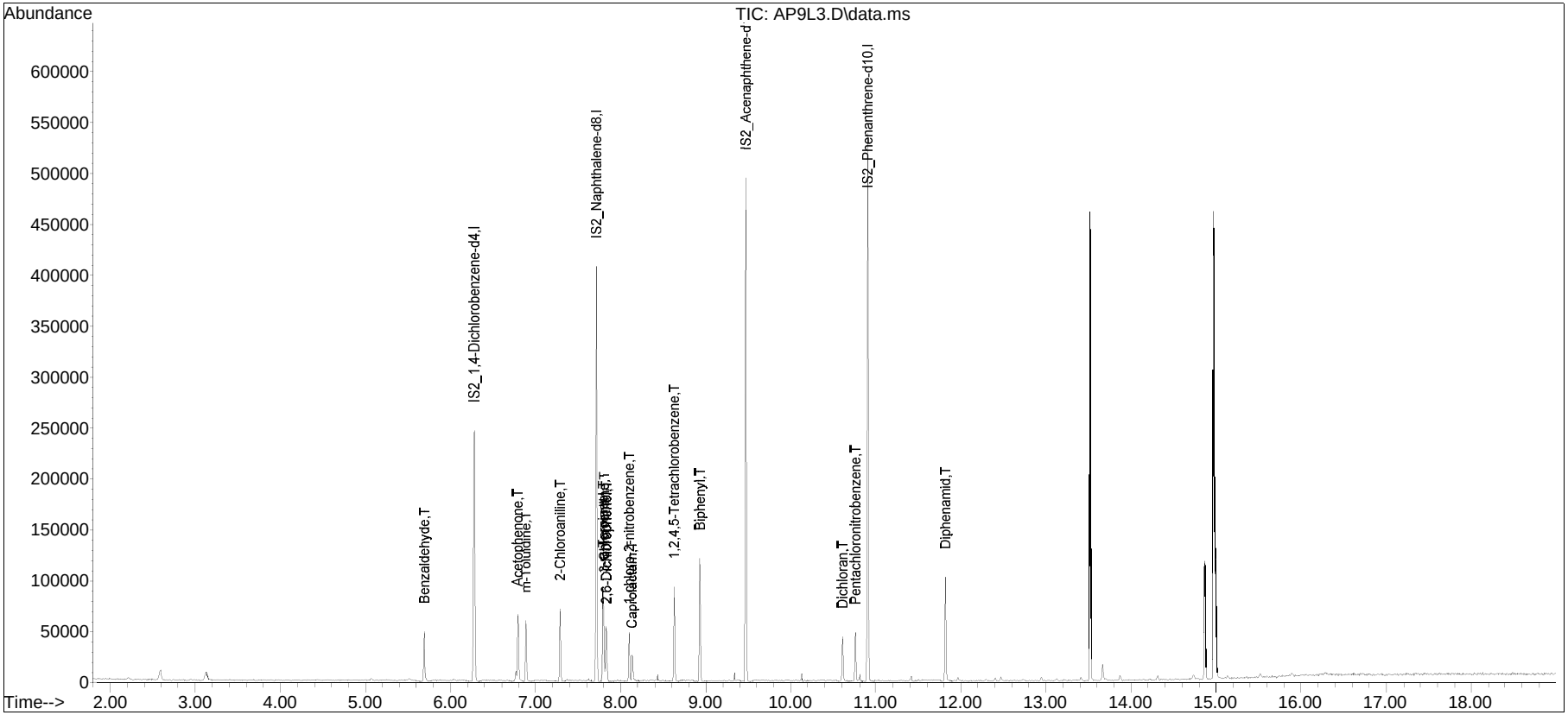
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\230902lviical\
Data File : AP9L3.D
Acq On : 2 Sep 2023 6:56 pm
Operator : SV106:ljg
Sample : IL8,32,,AP9L1 Lot# 10086
Misc : WG1823680,,ical
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Sep 05 11:18:00 2023
Quant Method : I:\8270\SV106\230902lviical\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 05 11:17:52 2023
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistiical\AP9L6.D•



Manual Integration Report

Data Path	: I:\8270\SV106\230902lviica	QMethod	: FS230902SV106.m
Data File	: AP9L3.D	Operator	: SV106:ljg
Date Inj'd	: 9/2/2023 6:56 pm	Instrument	: SV 106
Sample	: IL8,32,,AP9L1 Lot# 10086	Quant Date	: 9/5/2023 11:17 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\230902lviical\
Data File : AP9L2.D
Acq On : 2 Sep 2023 7:20 pm
Operator : SV106:ljg
Sample : IL9,32,,AP9L0.4 Lot# 10087
Misc : WG1823680,,ical
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Sep 05 11:17:50 2023
Quant Method : I:\8270\SV106\230902lviical\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 05 11:17:42 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\230902lviical\AP9L6.D
Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
27) IS2_1,4-Dichlorobenzen...	6.281	152	46458	4.000 ug/ml	0.00
Standard Area 1 = 44570			Recovery =	104.24%	
54) IS2_Naphthalene-d8	7.716	136	173297	4.000 ug/ml	0.00
Standard Area 1 = 169751			Recovery =	102.09%	
82) IS2_Acenaphthene-d10	9.475	164	94227	4.000 ug/ml	0.00
Standard Area 1 = 90319			Recovery =	104.33%	
97) IS2_Phenanthrene-d10	10.904	188	187803	4.000 ug/ml	# 0.00
Standard Area 1 = 182619			Recovery =	102.84%	
System Monitoring Compounds					
Target Compounds					Qvalue
28) Benzaldehyde	5.693	105	4843	Below Cal	97
29) Acetophenone	6.793	105	8920	0.385 ug/ml#	88
30) m-Toluidine	6.887	106	5638	0.313 ug/ml#	91
31) 2-Chloroaniline	7.293	127	6893	0.355 ug/ml	95
55) a-Terpineol	7.793	59	4789	0.383 ug/ml#	71
56) 3-Chloroaniline	7.804	65	2472	0.379 ug/ml	87
57) 2,6-Dichlorophenol	7.834	162	4310	0.360 ug/ml	91
58) 1-chloro-2-nitrobenzene	8.098	111	2094	0.369 ug/ml#	1
59) Caprolactam	8.134	55	2420	0.381 ug/ml#	89
60) 1,2,4,5-Tetrachloroben...	8.628	216	6404	0.425 ug/ml#	97
61) Biphenyl	8.928	154	14877	0.401 ug/ml	99
83) Dichloran	10.604	206	866	1.220 ug/ml	88
84) Pentachloronitrobenzene	10.751	237	1326	0.626 ug/ml#	76
98) Diphenamid	11.816	167	8310	0.348 ug/ml	86

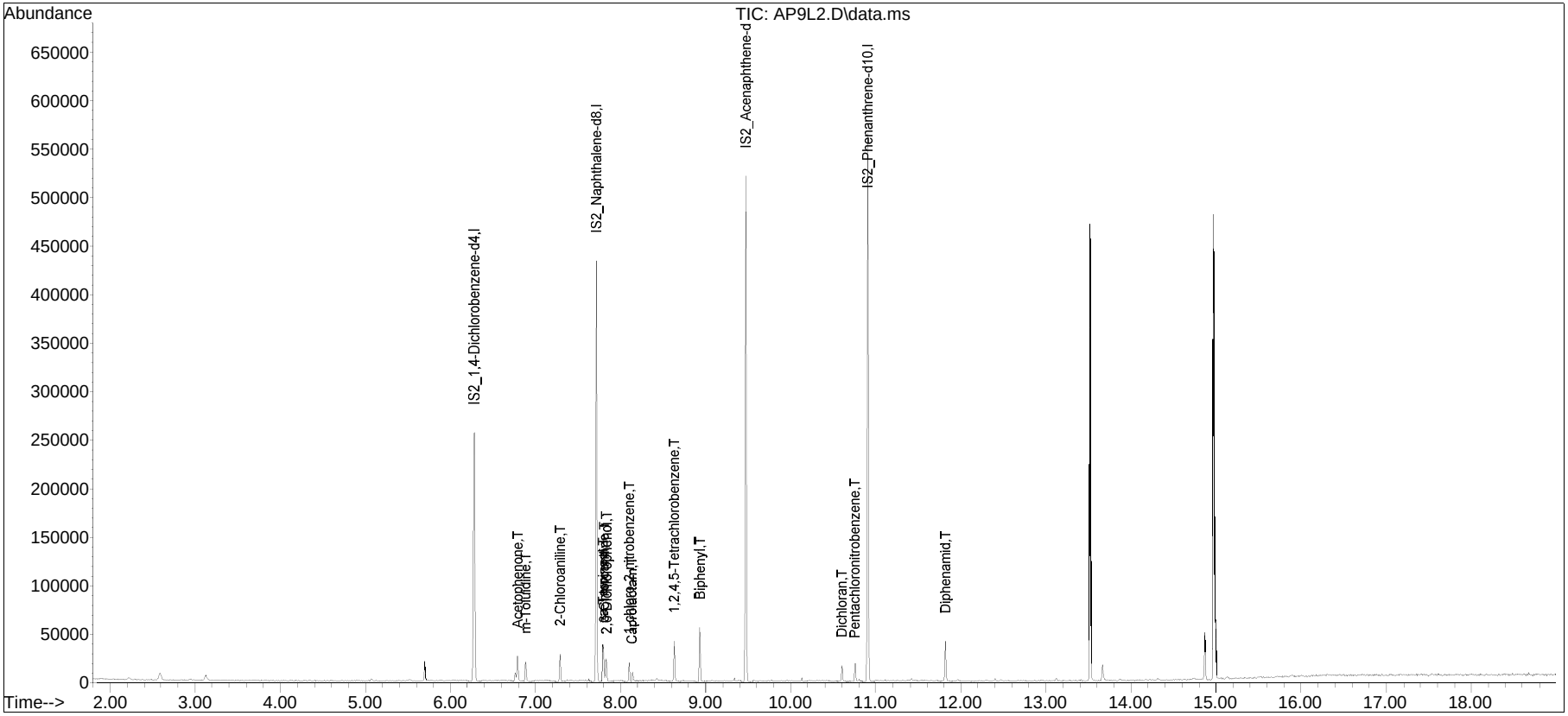
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\230902lviical\
Data File : AP9L2.D
Acq On : 2 Sep 2023 7:20 pm
Operator : SV106:ljg
Sample : IL9,32,,AP9L0.4 Lot# 10087
Misc : WG1823680,,ical
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Sep 05 11:17:50 2023
Quant Method : I:\8270\SV106\230902lviical\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 05 11:17:42 2023
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistiical\AP9L6.D•



Manual Integration Report

Data Path	: I:\8270\SV106\230902lviica	QMethod	: FS230902SV106.m
Data File	: AP9L2.D	Operator	: SV106:ljg
Date Inj'd	: 9/2/2023 7:20 pm	Instrument	: SV 106
Sample	: IL9,32,,AP9L0.4 Lot# 10087	Quant Date	: 9/5/2023 11:17 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\230902lviical\
Data File : AP9L1.D
Acq On : 2 Sep 2023 7:43 pm
Operator : SV106:ljg
Sample : IL10,32,,AP9L0.2 Lot# 10088
Misc : WG1823680,,ical
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Sep 05 11:17:27 2023
Quant Method : I:\8270\SV106\230902lviical\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 05 11:17:20 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\230902lviical\AP9L6.D
Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
27) IS2_1,4-Dichlorobenzen...	6.281	152	44285	4.000 ug/ml	0.00
Standard Area 1 = 44570			Recovery = 99.36%		
54) IS2_Naphthalene-d8	7.716	136	171660	4.000 ug/ml	# 0.00
Standard Area 1 = 169751			Recovery = 101.12%		
82) IS2_Acenaphthene-d10	9.474	164	96872	4.000 ug/ml	0.00
Standard Area 1 = 90319			Recovery = 107.26%		
97) IS2_Phenanthrene-d10	10.904	188	185184	4.000 ug/ml	# 0.00
Standard Area 1 = 182619			Recovery = 101.40%		
System Monitoring Compounds					
Target Compounds					Qvalue
28) Benzaldehyde	5.698	105	2451	Below Cal	90
29) Acetophenone	6.792	105	4984	0.226 ug/ml#	75
30) m-Toluidine	6.892	106	1613	0.094 ug/ml#	93
31) 2-Chloroaniline	7.292	127	4182	0.226 ug/ml#	91
55) a-Terpineol	7.792	59	2805	0.226 ug/ml#	82
56) 3-Chloroaniline	7.804	65	1291	0.200 ug/ml	96
57) 2,6-Dichlorophenol	7.827	162	2305	0.194 ug/ml#	89
58) 1-chloro-2-nitrobenzene	8.098	111	1074	0.191 ug/ml#	1
59) Caprolactam	8.145	55	1044	0.166 ug/ml#	43
60) 1,2,4,5-Tetrachloroben...	8.627	216	3284	0.220 ug/ml#	92
61) Biphenyl	8.933	154	8165	0.222 ug/ml	94
83) Dichloran	10.604	206	610	1.150 ug/ml#	76
84) Pentachloronitrobenzene	10.757	237	661	0.464 ug/ml#	7
98) Diphenamid	11.815	167	4345	0.185 ug/ml	91

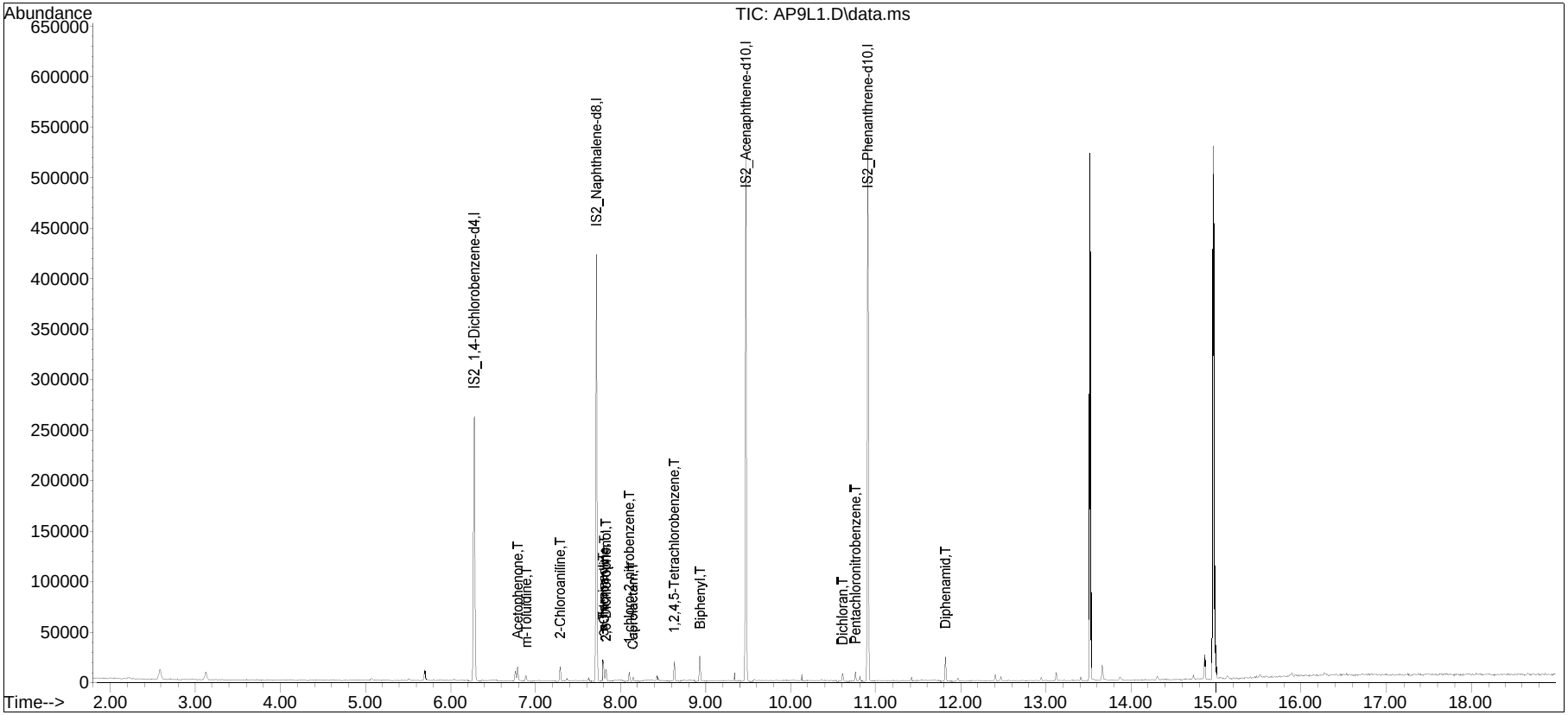
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\230902lviical\
Data File : AP9L1.D
Acq On : 2 Sep 2023 7:43 pm
Operator : SV106:ljg
Sample : IL10,32,,AP9L0.2 Lot# 10088
Misc : WG1823680,,ical
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Sep 05 11:17:27 2023
Quant Method : I:\8270\SV106\230902lviical\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 05 11:17:20 2023
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistiical\AP9L6.D•



Manual Integration Report

Data Path	: I:\8270\SV106\230902lviica	QMethod	: FS230902SV106.m
Data File	: AP9L1.D	Operator	: SV106:ljg
Date Inj'd	: 9/2/2023 7:43 pm	Instrument	: SV 106
Sample	: IL10,32,,AP9L0.2 Lot# 1008	Quant Date	: 9/5/2023 11:17 am

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

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV106\230902lviical\
Data File : ABNICV.D
Acq On : 2 Sep 2023 8:07 pm
Operator : SV106:ljg
Sample : CQICV1,32,,ABNICV Lot# 10210
Misc : WG1823680,,ical
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Sep 05 11:13:51 2023
Quant Method : I:\8270\SV106\230902lviical\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 05 11:13:45 2023
Response via : Initial Calibration

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

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	IS1_1,4-Dichlorobenzene-d4		1.000	1.000	0.0	109	0.00
2	t	n-Nitrosodimethylamine		0.677	0.686	-1.3	120	0.00
3	t	Pyridine		1.151	1.016	11.7	104	-0.01
4	S	2-Fluorophenol		1.116	1.138	-2.0	125	0.00
5	T	Aniline		1.893	1.792	5.3	114	0.00
6	t	2-Chlorophenol		1.274	1.237	2.9	114	0.00
7	S	Phenol-d6		1.437	1.418	1.3	116	0.00
8	T	Phenol		1.521	1.471	3.3	117	0.00
9	T	Bis(2-chloroethyl)ether		1.222	1.168	4.4	114	0.00
10	T	1,3-Dichlorobenzene		1.461	1.465	-0.3	119	0.00
11	T	1,4-Dichlorobenzene		1.503	1.510	-0.5	122	0.00
12	T	1,2-Dichlorobenzene		1.431	1.405	1.8	119	0.00
13	t	Benzyl alcohol		1.074	1.043	2.9	115	0.00
14	T	Bis(2-chloroisopropyl)ether		1.800	1.721	4.4	114	0.00
15	T	2-Methylphenol		1.138	1.098	3.5	118	0.00
16	T	Hexachloroethane		0.586	0.563	3.9	115	0.00
17	T	n-Nitrosodi-n-propylamine		0.923	0.896	2.9	117	0.00
18	T	3-Methylphenol/4-Methylphen		1.193	1.158	2.9	116	0.00
19	S	Nitrobenzene-d5		1.303	1.150	11.7	108	0.00
20	T	Nitrobenzene		1.295	1.223	5.6	112	0.00
21	T	Isophorone		2.478	2.372	4.3	116	0.00
22	T	2-Nitrophenol		0.518	0.470	9.3	110	0.00
23	T	2,4-Dimethylphenol		1.281	1.287	-0.5	117	0.00
24	T	Bis(2-chloroethoxy)methane		1.552	1.543	0.6	119	0.00
25	T	2,4-Dichlorophenol		1.076	1.060	1.5	114	0.00
26	T	1,2,4-Trichlorobenzene		1.235	1.233	0.2	122	0.00
34	I	IS1_Naphthalene-d8		1.000	1.000	0.0	106	0.00
35	T	Naphthalene		1.008	1.003	0.5	119	0.00
36	T	Benzoic Acid	*	5.000	4.512	9.8	105	0.00
37	T	4-Chloroaniline		0.132	0.132	0.0	117	0.00
38	T	Hexachlorobutadiene		0.206	0.202	1.9	119	0.00
39	T	p-Chloro-m-cresol		0.291	0.287	1.4	113	0.00
40	T	2-Methylnaphthalene		0.642	0.654	-1.9	121	0.00
41	T	1-Methylnaphthalene		0.241	0.243	-0.8	118	0.00
42	T	Hexachlorocyclopentadiene		0.219	0.219	0.0	119	0.00
43	T	2,4,6-Trichlorophenol		0.209	0.204	2.4	118	0.00
44	T	2,4,5-Trichlorophenol		0.224	0.225	-0.4	122	0.00
45	S	2-Fluorobiphenyl		0.764	0.759	0.7	119	0.00

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV106\230902lviical\
Data File : ABNICV.D
Acq On : 2 Sep 2023 8:07 pm
Operator : SV106:ljg
Sample : CQICV1,32,,ABNICV Lot# 10210
Misc : WG1823680,,ical
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Sep 05 11:13:51 2023
Quant Method : I:\8270\SV106\230902lviical\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 05 11:13:45 2023
Response via : Initial Calibration

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

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(min)
46	T	2-Chloronaphthalene		0.669	0.664	0.7	118	0.00
47	T	2-Nitroaniline	*	5.000	4.450	11.0	110	0.00
48	T	1,4-Dinitrobenzene	*	5.000	4.315	13.7	111	0.00
49	T	1,3-Dinitrobenzene	*	5.000	4.536	9.3	110	0.00
50	T	Dimethyl phthalate		0.787	0.763	3.0	114	0.00
51	T	Acenaphthylene		1.077	1.084	-0.6	121	0.00
52	T	2,6-Dinitrotoluene	*	5.000	4.585	8.3	116	0.00
53	T	1,2-Dinitrobenzene		0.063	0.057	9.5	108	0.00
62	I	IS1_Acenaphthene-d10		1.000	1.000	0.0	107	0.00
63	T	3-Nitroaniline		0.286	0.285	0.3	117	0.00
64	T	Acenaphthene		1.131	1.054	6.8	113	0.00
65	T	2,4-Dinitrophenol	*	5.000	4.123	17.5	96	0.00
66	T	Dibenzofuran		1.690	1.661	1.7	118	0.00
67	T	2,4-Dinitrotoluene	*	5.000	4.548	9.0	115	0.00
68	T	4-Nitrophenol	*	5.000	4.502	10.0	115	0.00
69	T	2,3,5,6-Tetrachlorophenol		0.325	0.312	4.0	113	0.00
70	T	2,3,4,6-Tetrachlorophenol		0.337	0.315	6.5	110	0.00
71	T	Diethyl phthalate		1.415	1.404	0.8	116	0.00
72	T	Fluorene		1.336	1.290	3.4	115	0.00
73	T	4-Chlorophenyl phenyl ether		0.637	0.611	4.1	116	0.00
74	T	4-Nitroaniline		0.289	0.275	4.8	107	0.00
75	T	4,6-Dinitro-o-cresol	*	5.000	4.436	11.3	116	0.00
76	T	NDPA/DPA		1.124	1.096	2.5	114	0.00
77	T	Azobenzene		1.319	1.346	-2.0	121	0.00
78	S	2,4,6-Tribromophenol		0.184	0.186	-1.1	117	0.00
79	T	4-Bromophenyl phenyl ether		0.371	0.373	-0.5	121	0.00
80	T	Hexachlorobenzene		0.432	0.409	5.3	117	0.00
81	T	Pentachlorophenol	*	5.000	4.617	7.7	117	0.00
87	I	IS1_Phenanthrene-d10		1.000	1.000	0.0	110	0.00
88	T	Phenanthrene		1.089	1.012	7.1	114	0.00
89	T	Anthracene		1.084	1.035	4.5	116	0.00
90	T	Carbazole		0.991	0.958	3.3	115	0.00
91	T	Di-n-butylphthalate		1.269	1.180	7.0	112	0.00
92	T	Fluoranthene		1.165	1.095	6.0	115	0.00
93	T	Benzidine		0.770	0.774	-0.5	121	0.00
94	T	Pyrene		1.233	1.186	3.8	118	0.00
95	S	4-Terphenyl-d14		0.877	0.879	-0.2	122	0.00

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV106\230902lviical\
Data File : ABNICV.D
Acq On : 2 Sep 2023 8:07 pm
Operator : SV106:ljg
Sample : CQICV1,32,,ABNICV Lot# 10210
Misc : WG1823680,,ical
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Sep 05 11:13:51 2023
Quant Method : I:\8270\SV106\230902lviical\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 05 11:13:45 2023
Response via : Initial Calibration

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

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
96	T	Butyl benzyl phthalate	0.541	0.476	12.0	106	0.00
103	I	IS1_Chrysene-d12	1.000	1.000	0.0	109	0.00
104	T	Benzo(a)anthracene	1.326	1.261	4.9	115	0.00
105	T	3,3'-Dichlorobenzidine	0.472	0.464	1.7	115	0.00
106	T	Chrysene	1.231	1.198	2.7	119	0.00
107	T	Bis(2-ethylhexyl)phthalate	0.889	0.854	3.9	112	0.00
108	T	Di-n-octylphthalate	1.499	1.450	3.3	112	0.00
109	T	Benzo(b)fluoranthene	1.266	1.192	5.8	115	0.00
110	T	Benzo(k)fluoranthene	1.214	1.192	1.8	112	0.00
111	T	Benzo(a)pyrene	1.083	1.132	-4.5	124	0.00
112	I	IS1_Perylene-d12	1.000	1.000	0.0	107	0.00
113	T	Indeno(1,2,3-cd)pyrene	0.935	0.923	1.3	119	0.00
114	T	Dibenzo(a,h)anthracene	0.999	0.980	1.9	114	0.00
115	T	Benzo(ghi)perylene	0.991	0.963	2.8	114	0.00

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\230902lviical\
Data File : ABNICV.D
Acq On : 2 Sep 2023 8:07 pm
Operator : SV106:ljg
Sample : CQICV1,32,,ABNICV Lot# 10210
Misc : WG1823680,,ical
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Sep 05 11:13:51 2023
Quant Method : I:\8270\SV106\230902lviical\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 05 11:13:45 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\230902lviical\ABNL6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) IS1_1,4-Dichlorobenzen...	6.281	152	46988	4.000 ug/ml	0.00
Standard Area 1 = 43113			Recovery = 108.99%		
34) IS1_Naphthalene-d8	7.716	136	177178	4.000 ug/ml	0.00
Standard Area 1 = 167432			Recovery = 105.82%		
62) IS1_Acenaphthene-d10	9.475	164	100060	4.000 ug/ml	0.00
Standard Area 1 = 93119			Recovery = 107.45%		
87) IS1_Phenanthrene-d10	10.904	188	197265	4.000 ug/ml	# 0.00
Standard Area 1 = 179535			Recovery = 109.88%		
103) IS1_Chrysene-d12	13.515	240	179289	4.000 ug/ml	0.00
Standard Area 1 = 164850			Recovery = 108.76%		
112) IS1_Perylene-d12	14.968	264	196553	4.000 ug/ml	0.00
Standard Area 1 = 183060			Recovery = 107.37%		
System Monitoring Compounds					
4) 2-Fluorophenol	4.245	112	66842	5.101 ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 102.02%		
7) Phenol-d6	5.910	99	83259	4.932 ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 98.64%		
19) Nitrobenzene-d5	6.945	82	67573	4.415 ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 176.60%#		
45) 2-Fluorobiphenyl	8.839	172	168148	4.972 ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 198.88%#		
78) 2,4,6-Tribromophenol	10.239	330	23209	5.055 ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 101.10%		
95) 4-Terphenyl-d14	12.486	244	216638	5.007 ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 200.28%#		
Target Compounds					Qvalue
2) n-Nitrosodimethylamine	1.928	74	40295	5.065 ug/ml#	68
3) Pyridine	1.957	79	59684	4.416 ug/ml#	64
5) Aniline	5.863	93	105271	4.734 ug/ml	97
6) 2-Chlorophenol	6.010	128	72678	4.856 ug/ml	92
8) Phenol	5.928	94	86378	4.835 ug/ml	96
9) Bis(2-chloroethyl)ether	6.004	93	68605	4.780 ug/ml#	82
10) 1,3-Dichlorobenzene	6.198	146	86058	5.015 ug/ml	99
11) 1,4-Dichlorobenzene	6.298	146	88690	5.023 ug/ml	97
12) 1,2-Dichlorobenzene	6.481	146	82512	4.908 ug/ml	99
13) Benzyl alcohol	6.498	79	61266	4.858 ug/ml	97
14) Bis(2-chloroisopropyl)...	6.681	45	101104	4.783 ug/ml#	48

Data Path : I:\8270\SV106\230902lviical\
Data File : ABNICV.D
Acq On : 2 Sep 2023 8:07 pm
Operator : SV106:ljg
Sample : CQICV1,32,,ABNICV Lot# 10210
Misc : WG1823680,,ical
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Sep 05 11:13:51 2023
Quant Method : I:\8270\SV106\230902lviical\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 05 11:13:45 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\230902lviical\ABNL6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
15) 2-Methylphenol	6.675	108	64492	4.826	ug/ml	99
16) Hexachloroethane	6.875	117	33051	4.802	ug/ml#	76
17) n-Nitrosodi-n-propylamine	6.822	70	52624	4.852	ug/ml	94
18) 3-Methylphenol/4-Methy...	6.863	108	68011	4.851	ug/ml	99
20) Nitrobenzene	6.963	77	71851	4.724	ug/ml	96
21) Isophorone	7.251	82	139339	4.787	ug/ml	95
22) 2-Nitrophenol	7.328	139	27634	4.543	ug/ml#	93
23) 2,4-Dimethylphenol	7.433	107	75608	5.025	ug/ml	95
24) Bis(2-chloroethoxy)met...	7.528	93	90611	4.969	ug/ml	98
25) 2,4-Dichlorophenol	7.592	162	62268	4.928	ug/ml	97
26) 1,2,4-Trichlorobenzene	7.669	180	72447	4.994	ug/ml	99
35) Naphthalene	7.733	128	222032	4.971	ug/ml	99
36) Benzoic Acid	7.522	105	35323	4.512	ug/ml	96
37) 4-Chloroaniline	7.822	65	29251	5.002	ug/ml	90
38) Hexachlorobutadiene	7.910	225	44756	4.914	ug/ml	99
39) p-Chloro-m-cresol	8.357	107	63643	4.929	ug/ml	94
40) 2-Methylnaphthalene	8.457	142	144820	5.093	ug/ml	95
41) 1-Methylnaphthalene	8.551	115	53738	5.039	ug/ml	81
42) Hexachlorocyclopentadiene	8.633	237	48573	5.001	ug/ml	99
43) 2,4,6-Trichlorophenol	8.751	196	45102	4.882	ug/ml	99
44) 2,4,5-Trichlorophenol	8.780	196	49849	5.016	ug/ml	94
46) 2-Chloronaphthalene	8.933	162	147157	4.965	ug/ml	100
47) 2-Nitroaniline	9.045	138	36042	4.450	ug/ml	92
48) 1,4-Dinitrobenzene	9.180	168	14246	4.315	ug/ml	93
49) 1,3-Dinitrobenzene	9.257	168	17604	4.536	ug/ml#	1
50) Dimethyl phthalate	9.257	163	169013	4.846	ug/ml#	99
51) Acenaphthylene	9.333	152	240120	5.034	ug/ml	100
52) 2,6-Dinitrotoluene	9.298	165	30463	4.585	ug/ml#	84
53) 1,2-Dinitrobenzene	9.333	168	12690	4.522	ug/ml#	1
63) 3-Nitroaniline	9.451	138	35610	4.975	ug/ml	100
64) Acenaphthene	9.504	154	131783	4.660	ug/ml	93
65) 2,4-Dinitrophenol	9.551	184	12153	4.123	ug/ml	95
66) Dibenzofuran	9.675	168	207762	4.914	ug/ml	100
67) 2,4-Dinitrotoluene	9.680	165	40776	4.548	ug/ml	96
68) 4-Nitrophenol	9.639	65	30240	4.502	ug/ml#	86
69) 2,3,5,6-Tetrachlorophenol	9.769	232	39034	4.802	ug/ml	98
70) 2,3,4,6-Tetrachlorophenol	9.810	232	39370	4.667	ug/ml	94
71) Diethyl phthalate	9.951	149	175591	4.961	ug/ml	99
72) Fluorene	10.010	166	161349	4.830	ug/ml	93
73) 4-Chlorophenyl phenyl ...	10.033	204	76376	4.791	ug/ml	97

Data Path : I:\8270\SV106\230902lviical\
Data File : ABNICV.D
Acq On : 2 Sep 2023 8:07 pm
Operator : SV106:ljg
Sample : CQICV1,32,,ABNICV Lot# 10210
Misc : WG1823680,,ical
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Sep 05 11:13:51 2023
Quant Method : I:\8270\SV106\230902lviical\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 05 11:13:45 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\230902lviical\ABNL6.D
Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
74)	4-Nitroaniline	10.033	138	34455	4.769	ug/ml#	85
75)	4,6-Dinitro-o-cresol	10.075	198	17576	4.436	ug/ml#	74
76)	NDPA/DPA	10.145	169	137047	4.876	ug/ml	95
77)	Azobenzene	10.180	77	168401	5.103	ug/ml	98
79)	4-Bromophenyl phenyl e...	10.498	248	46603	5.023	ug/ml	89
80)	Hexachlorobenzene	10.545	284	51213	4.742	ug/ml	90
81)	Pentachlorophenol	10.739	266	29323	4.617	ug/ml	98
88)	Phenanthrene	10.927	178	249661	4.647	ug/ml	100
89)	Anthracene	10.974	178	255236	4.773	ug/ml	99
90)	Carbazole	11.145	167	236335	4.837	ug/ml	99
91)	Di-n-butylphthalate	11.545	149	290986	4.650	ug/ml	99
92)	Fluoranthene	12.074	202	270091	4.703	ug/ml#	92
93)	Benzidine	12.233	184	190778	5.027	ug/ml#	95
94)	Pyrene	12.286	202	292413	4.809	ug/ml	98
96)	Butyl benzyl phthalate	13.010	149	117354	4.395	ug/ml	93
104)	Benzo(a)anthracene	13.510	228	282690	4.758	ug/ml	100
105)	3,3'-Dichlorobenzidine	13.515	252	103983	4.918	ug/ml#	98
106)	Chrysene	13.545	228	268550	4.869	ug/ml	100
107)	Bis(2-ethylhexyl)phtha...	13.645	149	191400	4.805	ug/ml#	92
108)	Di-n-octylphthalate	14.315	149	325055	4.837	ug/ml#	73
109)	Benzo(b)fluoranthene	14.604	252	267047	4.705	ug/ml#	95
110)	Benzo(k)fluoranthene	14.627	252	267153	4.910	ug/ml#	94
111)	Benzo(a)pyrene	14.909	252	253755	5.226	ug/ml#	94
113)	Indeno(1,2,3-cd)pyrene	15.927	276	226891M6	4.941	ug/mL	
114)	Dibenzo(a,h)anthracene	15.951	278	240753	4.902	ug/ml#	91
115)	Benzo(ghi)perylene	16.156	276	236559	4.856	ug/ml#	88

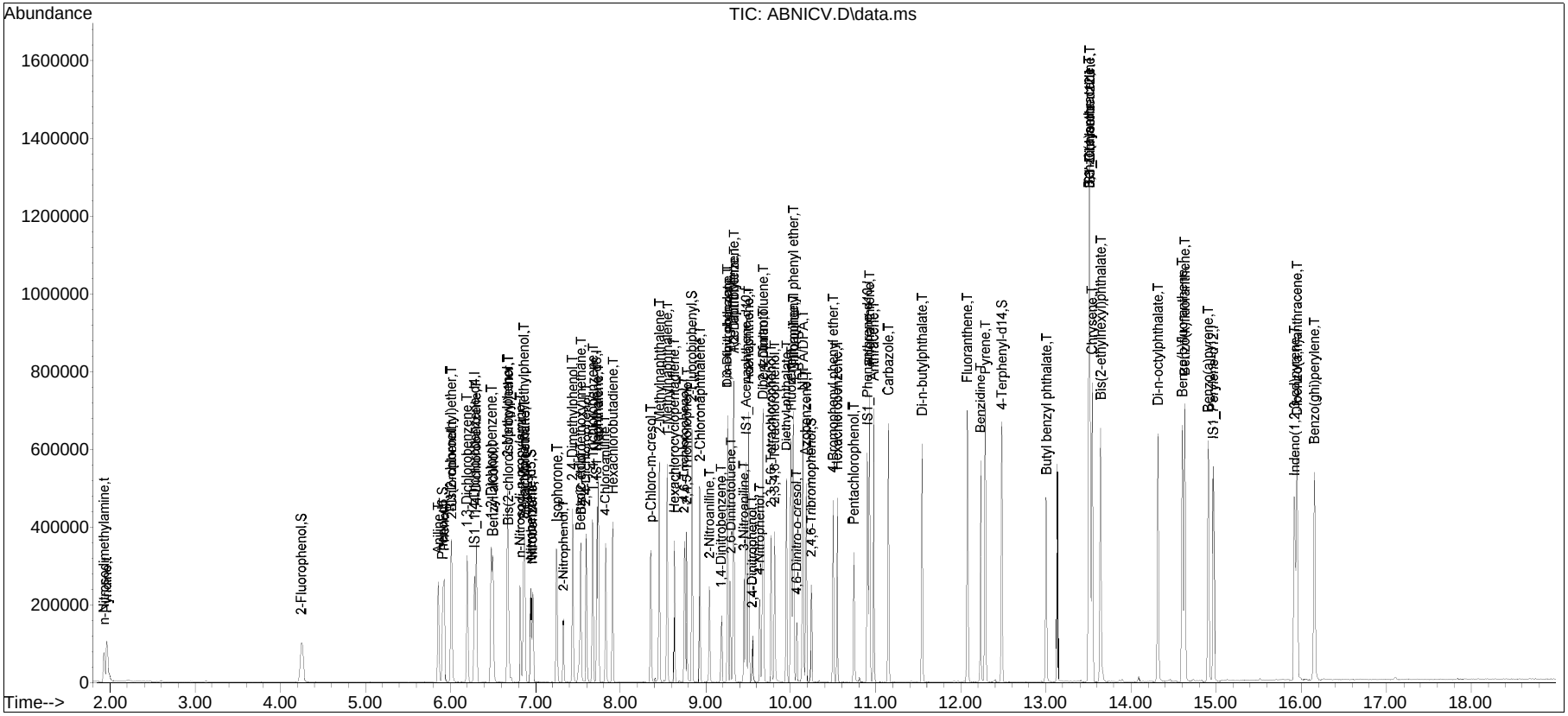
(#) = qualifier out of range (m) = manual integration (+) = signals summed

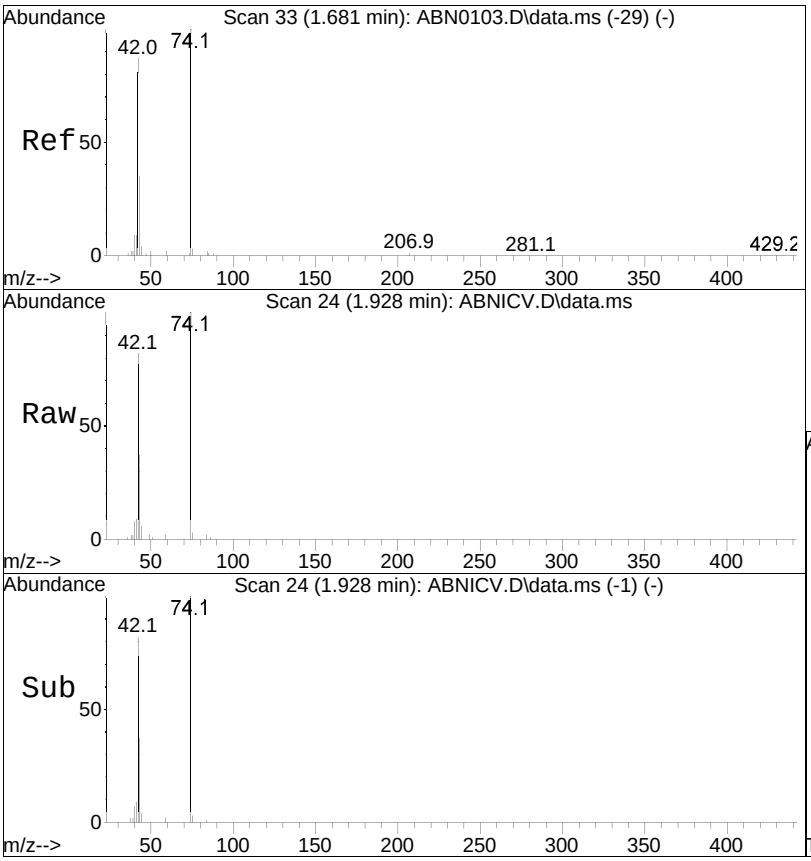
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\230902lviical\
Data File : ABNICV.D
Acq On : 2 Sep 2023 8:07 pm
Operator : SV106:ljg
Sample : CQICV1,32,,ABNICV Lot# 10210
Misc : WG1823680,,ical
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Sep 05 11:13:51 2023
Quant Method : I:\8270\SV106\230902lviical\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 05 11:13:45 2023
Response via : Initial Calibration

Sub List : ABNical - ABN ical sublistiical\ABNL6.D•

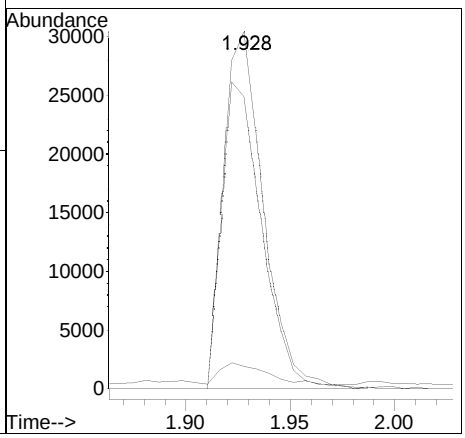


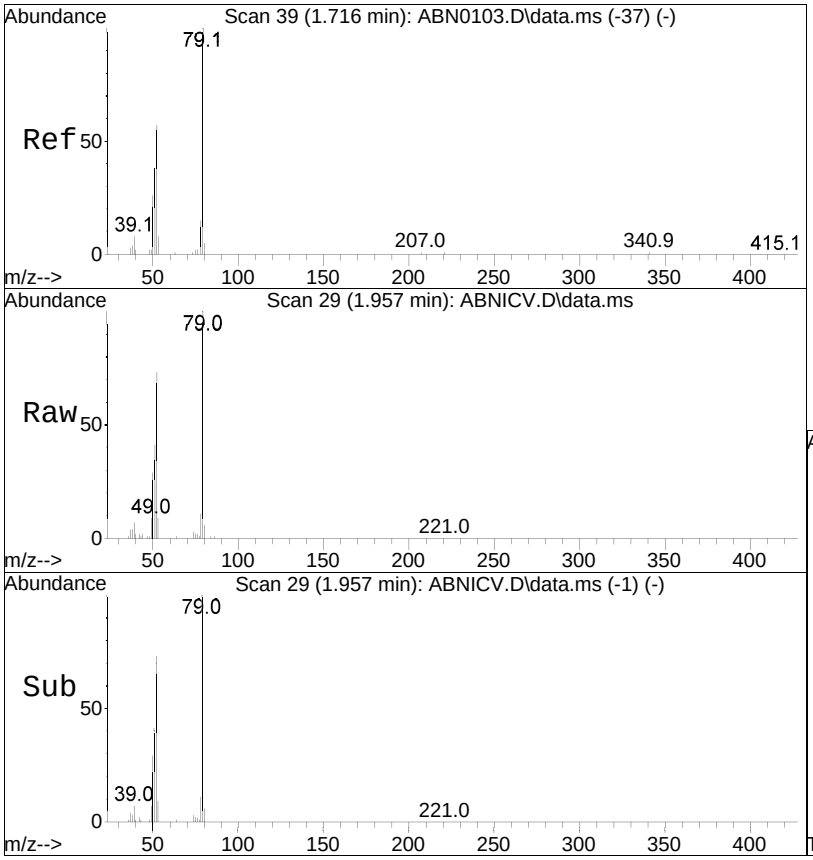


#2
n-Nitrosodimethylamine
Concen: 5.06 ug/ml
RT: 1.928 min Scan# 24
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 2 Sep 2023 8:07 pm

Tgt Ion: 74 Resp: 40295

Ion	Ratio	Lower	Upper
74	100		
42	85.9	100.0	150.0#
44	7.0	6.7	10.1

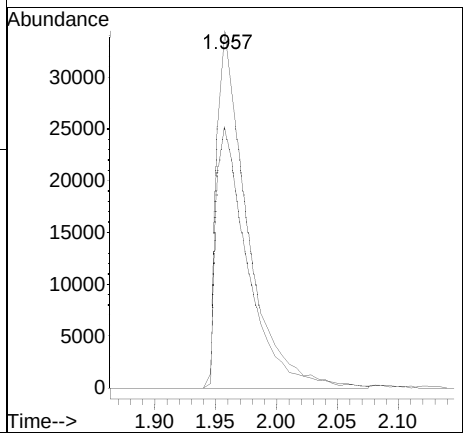


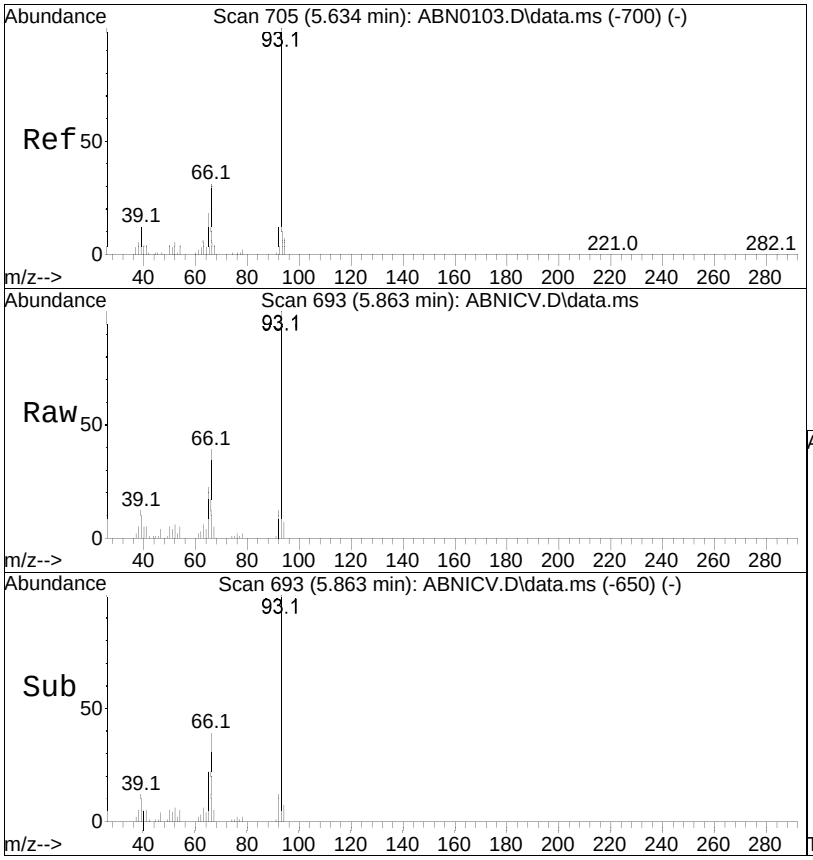


#3
Pyridine
Concen: 4.42 ug/ml
RT: 1.957 min Scan# 29
Delta R.T. -0.012 min
Lab File: ABNICV.D
Acq: 2 Sep 2023 8:07 pm

Tgt Ion: 79 Resp: 59684

Ion	Ratio	Lower	Upper
79	100		
52	77.5	93.1	139.7#

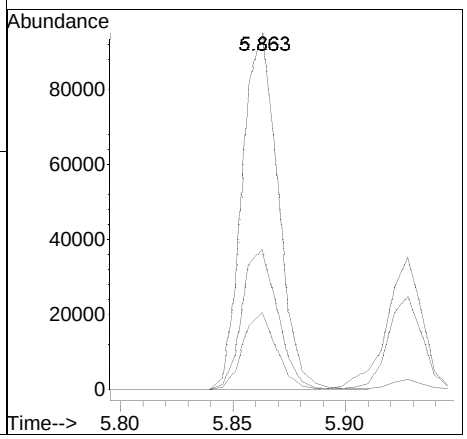


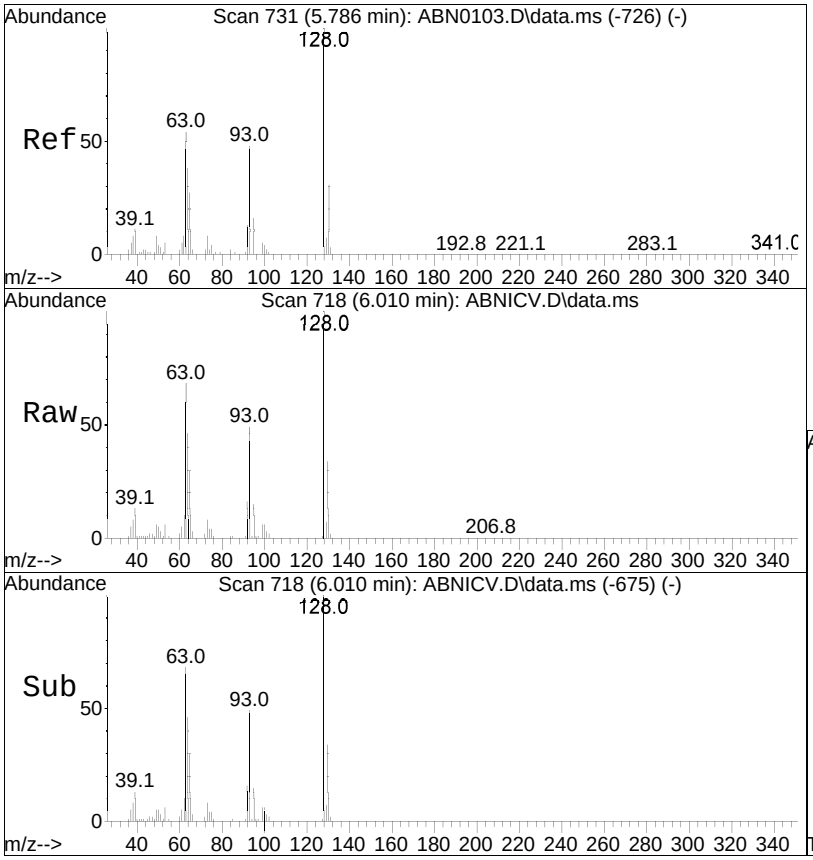


#5
Aniline
Concen: 4.73 ug/ml
RT: 5.863 min Scan# 693
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 2 Sep 2023 8:07 pm

Tgt Ion: 93 Resp: 105271

Ion	Ratio	Lower	Upper
93	100		
66	39.1	32.6	49.0
65	20.4	17.6	26.4

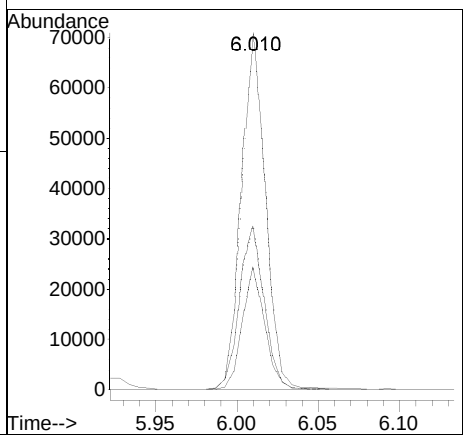


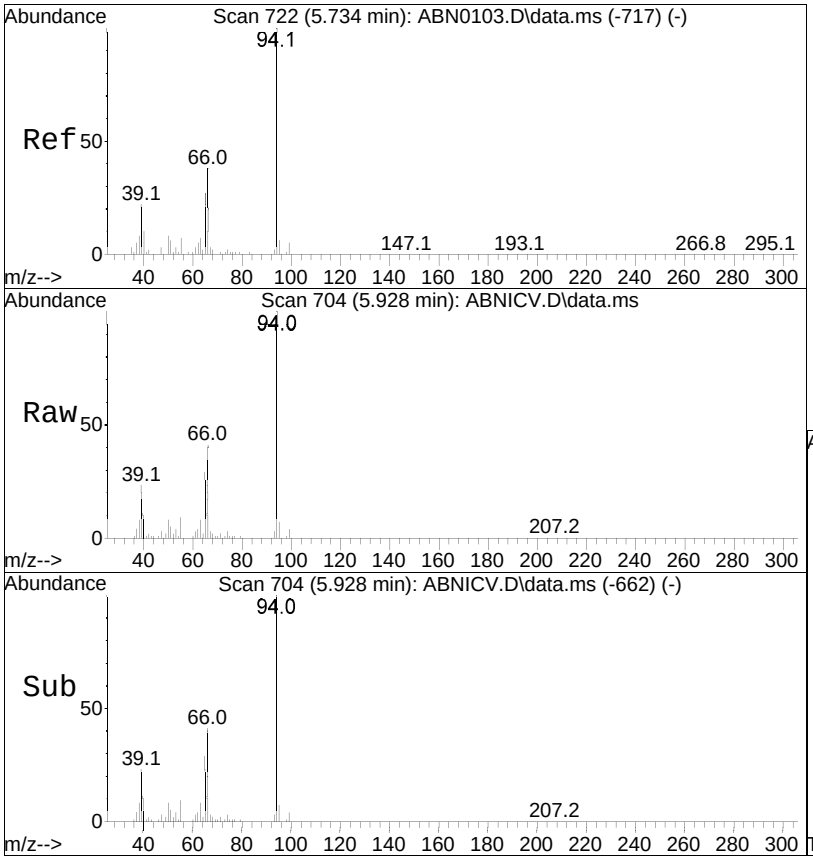


#6
2-Chlorophenol
Concen: 4.86 ug/ml
RT: 6.010 min Scan# 718
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 2 Sep 2023 8:07 pm

Tgt Ion:128 Resp: 72678

Ion	Ratio	Lower	Upper
128	100		
64	47.4	45.1	67.7
130	32.3	26.2	39.4

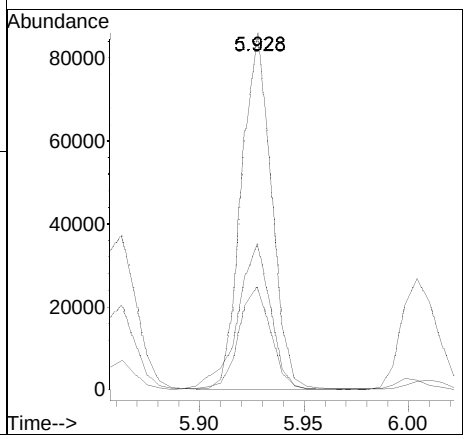


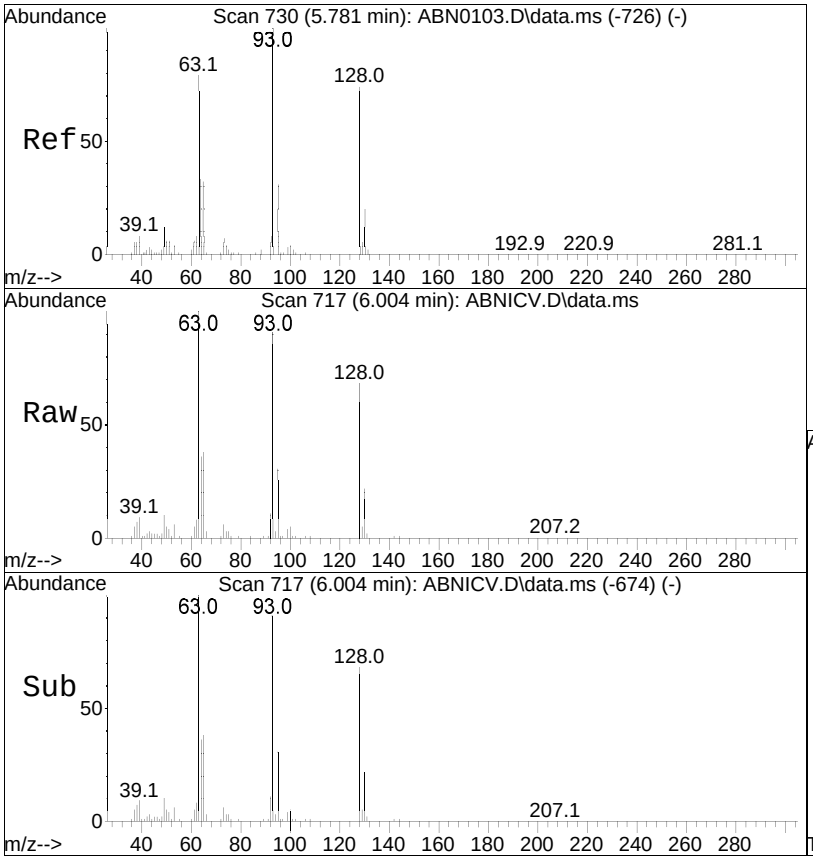


#8
Phenol
Concen: 4.83 ug/ml
RT: 5.928 min Scan# 704
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 2 Sep 2023 8:07 pm

Tgt Ion: 94 Resp: 86378

Ion	Ratio	Lower	Upper
94	100		
65	30.8	26.0	39.0
66	45.1	33.8	50.8

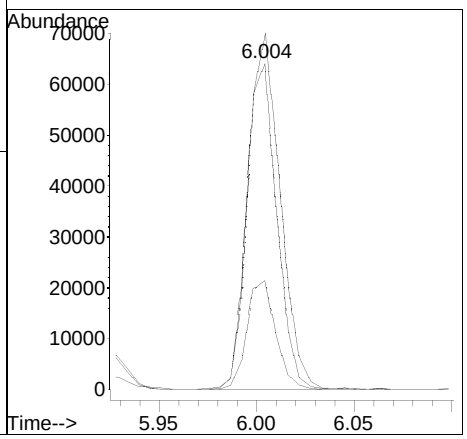


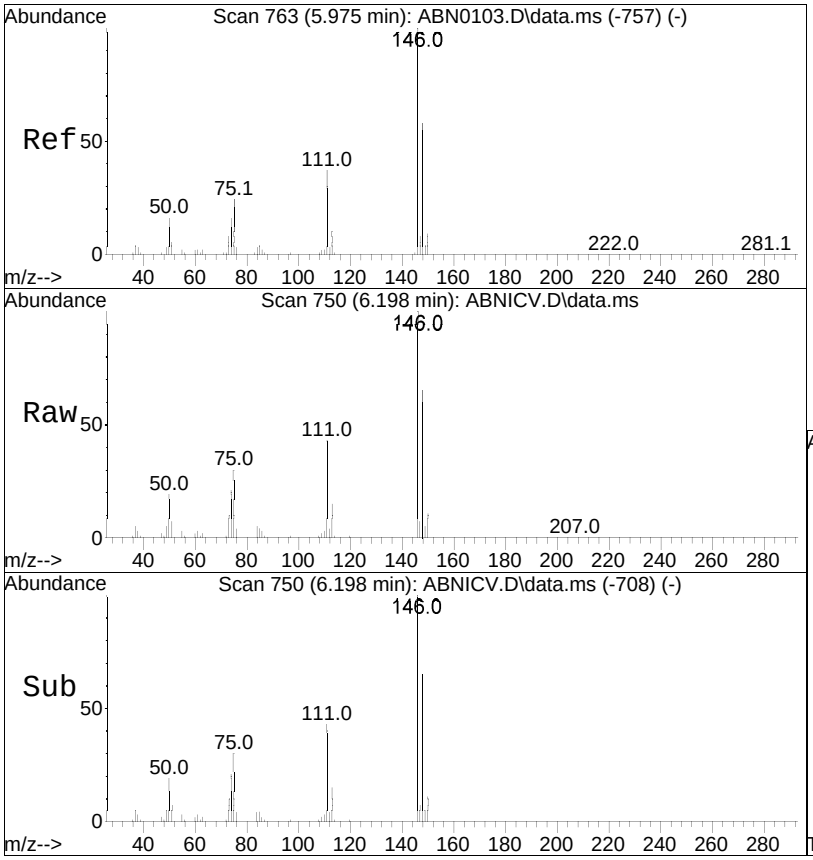


#9
Bis(2-chloroethyl)ether
Concen: 4.78 ug/ml
RT: 6.004 min Scan# 717
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 2 Sep 2023 8:07 pm

Tgt Ion: 93 Resp: 68605

Ion	Ratio	Lower	Upper
93	100		
63	115.7	74.6	111.8#
95	32.0	25.9	38.9

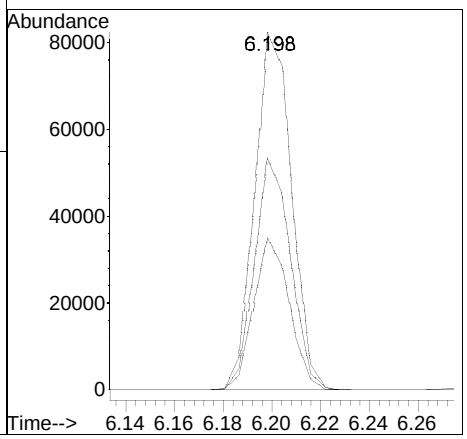


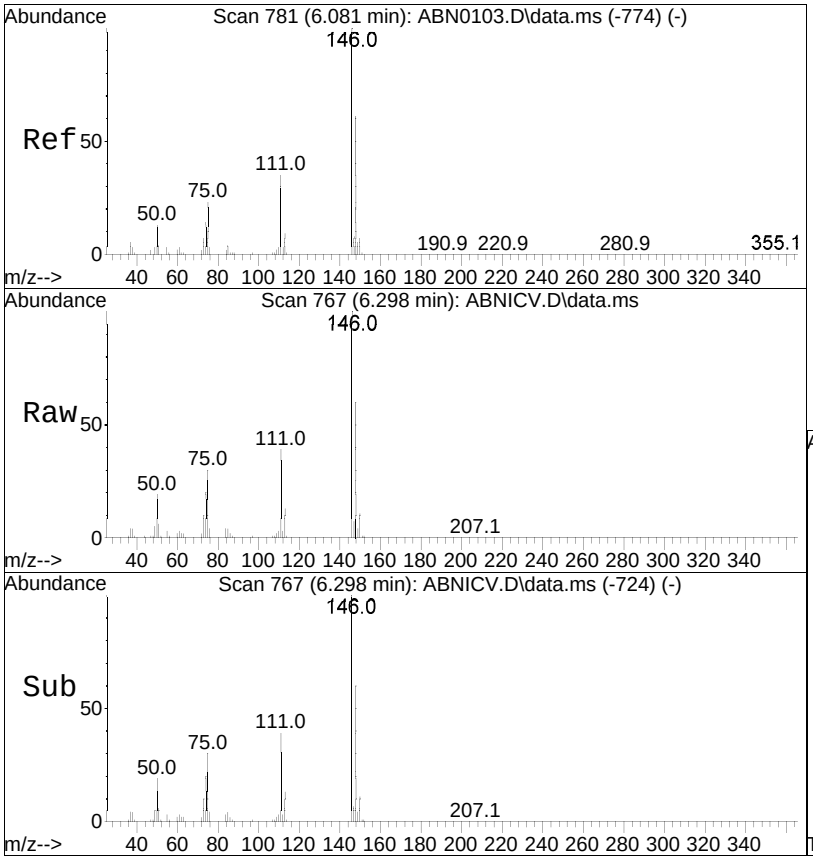


#10
1,3-Dichlorobenzene
Concen: 5.01 ug/ml
RT: 6.198 min Scan# 750
Delta R.T. -0.006 min
Lab File: ABNICV.D
Acq: 2 Sep 2023 8:07 pm

Tgt Ion:146 Resp: 86058

Ion	Ratio	Lower	Upper
146	100		
111	41.2	34.3	51.5
148	63.5	50.8	76.2

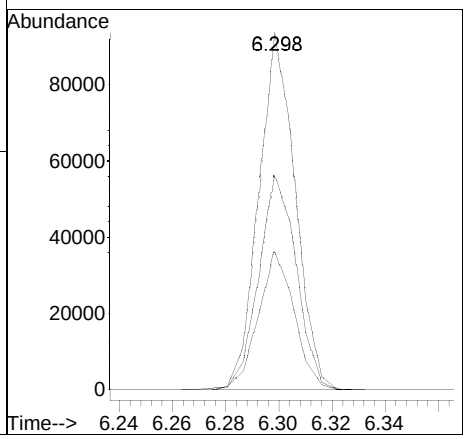


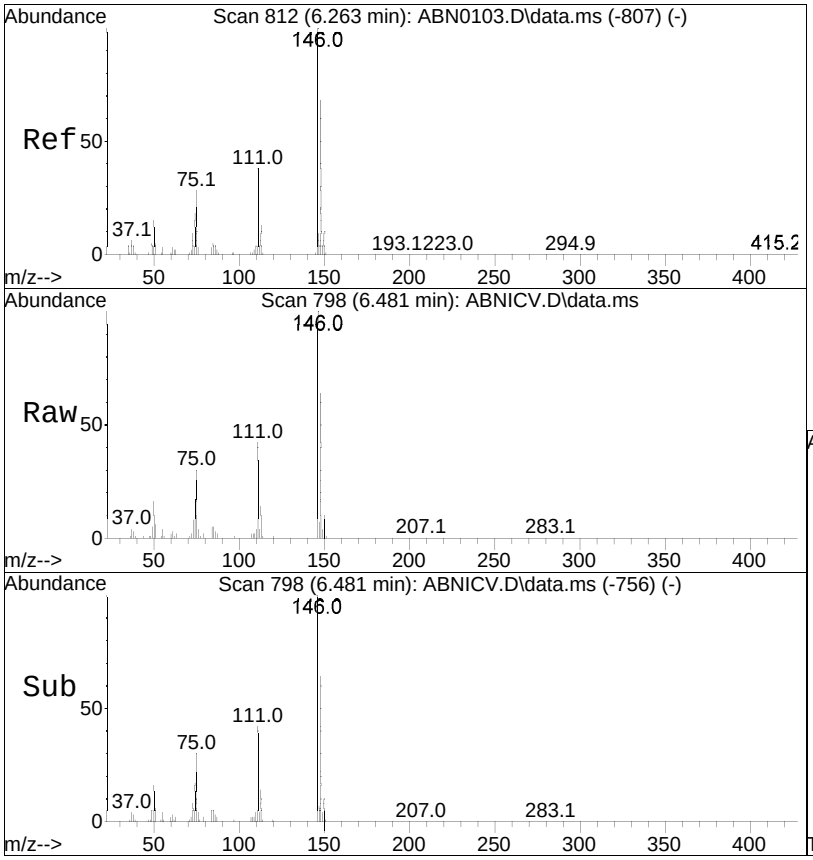


#11
1,4-Dichlorobenzene
Concen: 5.02 ug/ml
RT: 6.298 min Scan# 767
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 2 Sep 2023 8:07 pm

Tgt Ion:146 Resp: 88690

Ion	Ratio	Lower	Upper
146	100		
148	62.2	50.7	76.1
111	38.9	33.4	50.0

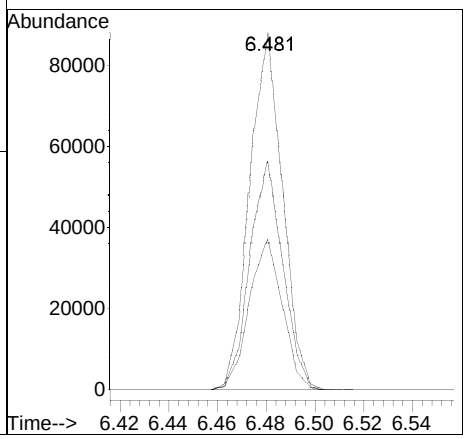


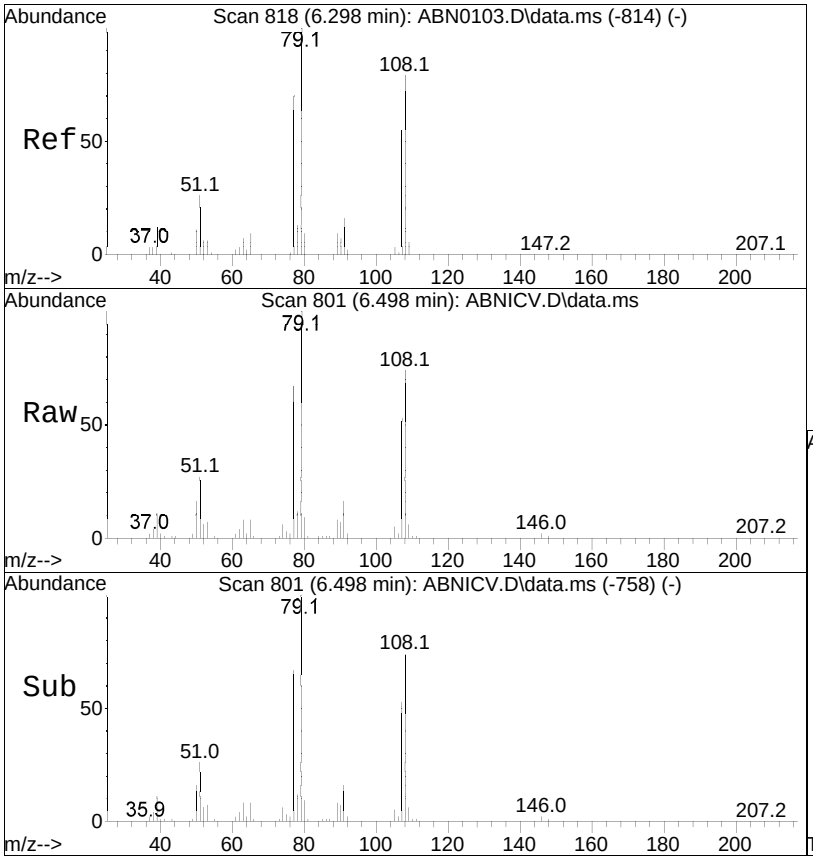


#12
1,2-Dichlorobenzene
Concen: 4.91 ug/ml
RT: 6.481 min Scan# 798
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 2 Sep 2023 8:07 pm

Tgt Ion:146 Resp: 82512

Ion	Ratio	Lower	Upper
146	100		
111	42.8	34.6	52.0
148	64.3	50.2	75.4

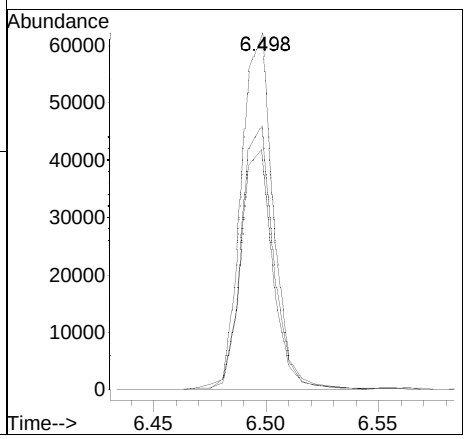


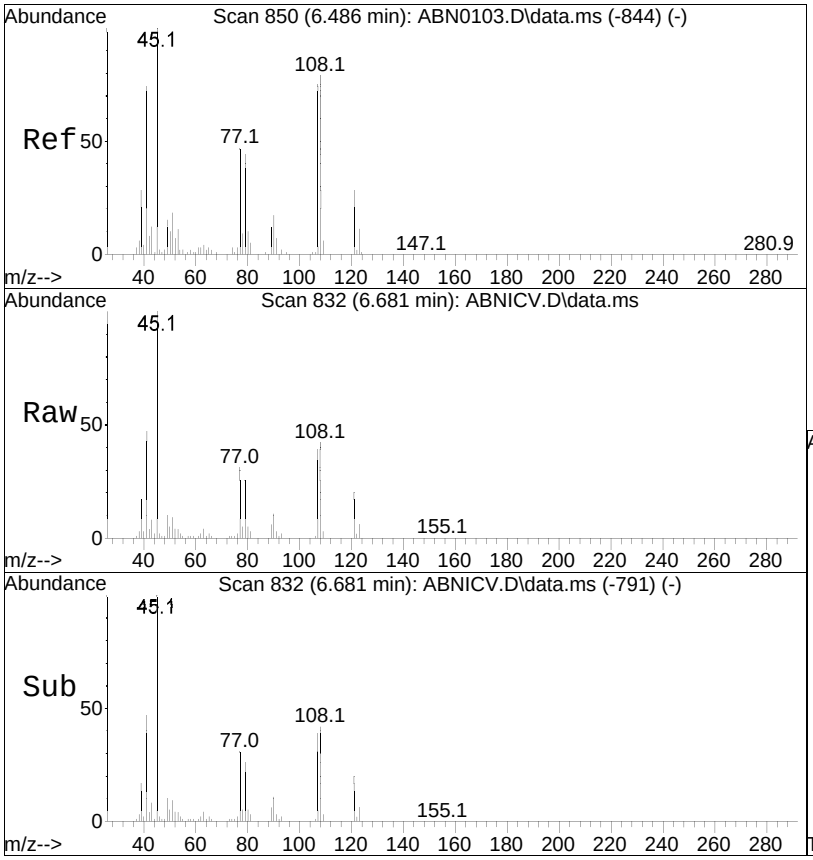


#13
Benzyl alcohol
Concen: 4.86 ug/ml
RT: 6.498 min Scan# 801
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 2 Sep 2023 8:07 pm

Tgt Ion: 79 Resp: 61266

Ion	Ratio	Lower	Upper
79	100		
77	67.8	54.9	82.3
108	75.0	63.1	94.7

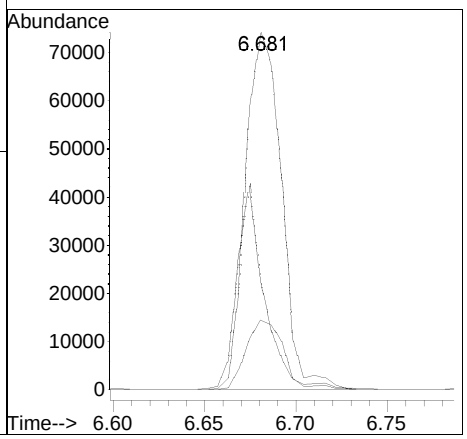


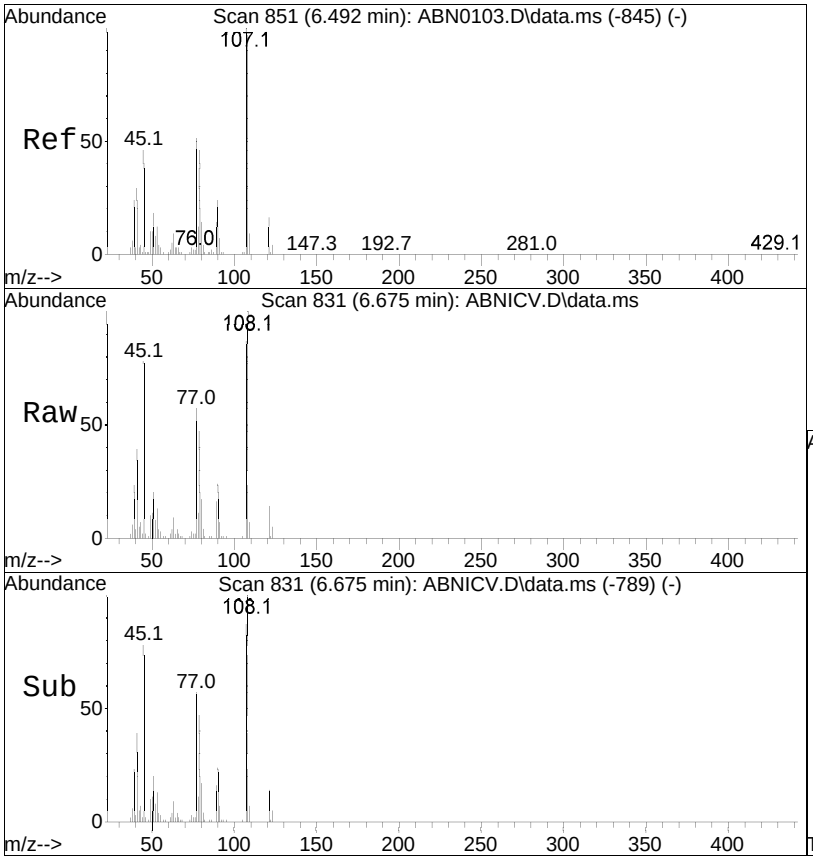


#14
Bis(2-chloroisopropyl)ether
Concen: 4.78 ug/ml
RT: 6.681 min Scan# 832
Delta R.T. -0.006 min
Lab File: ABNICV.D
Acq: 2 Sep 2023 8:07 pm

Tgt Ion: 45 Resp: 101104

Ion	Ratio	Lower	Upper
45	100		
121	20.2	9.8	14.6#
77	43.5	6.1	9.1#

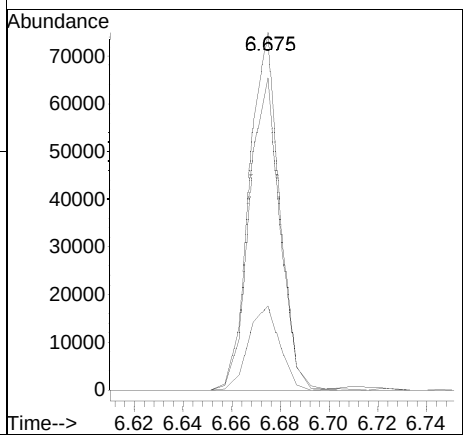


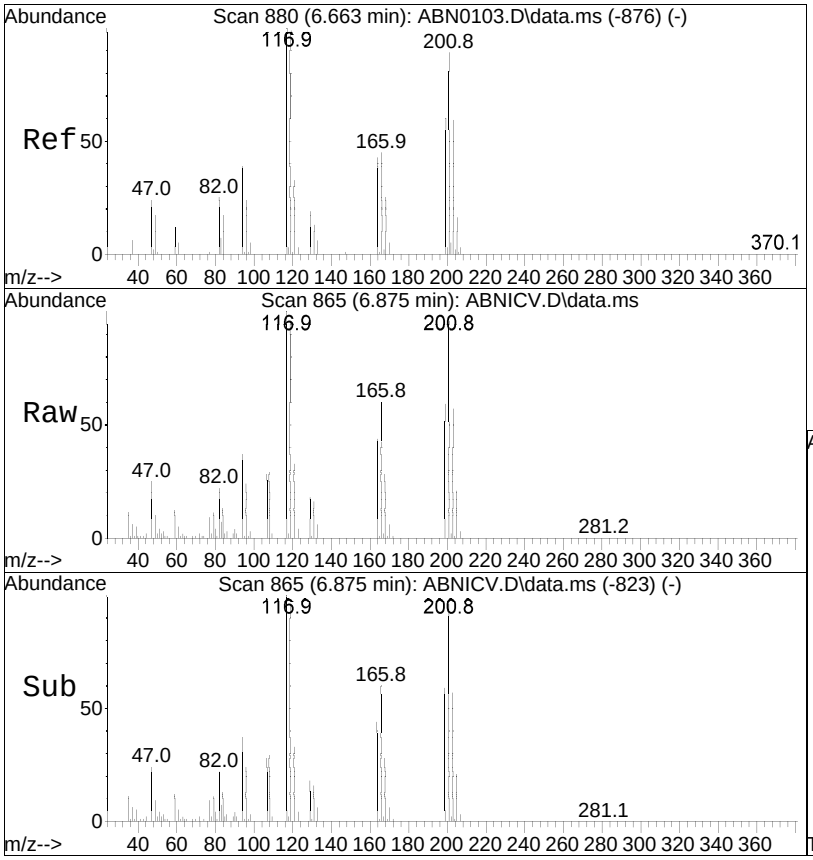


#15
2-Methylphenol
Concen: 4.83 ug/ml
RT: 6.675 min Scan# 831
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 2 Sep 2023 8:07 pm

Tgt Ion:108 Resp: 64492

Ion	Ratio	Lower	Upper
108	100		
107	88.6	70.7	106.1
90	24.4	18.7	28.1

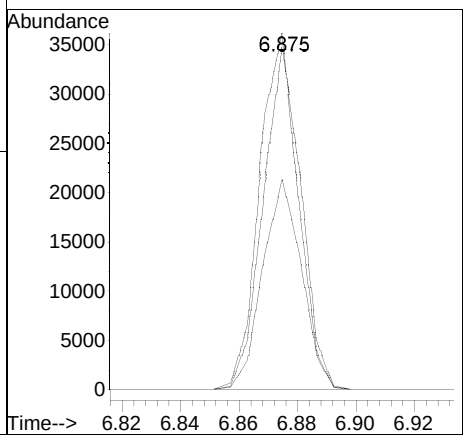


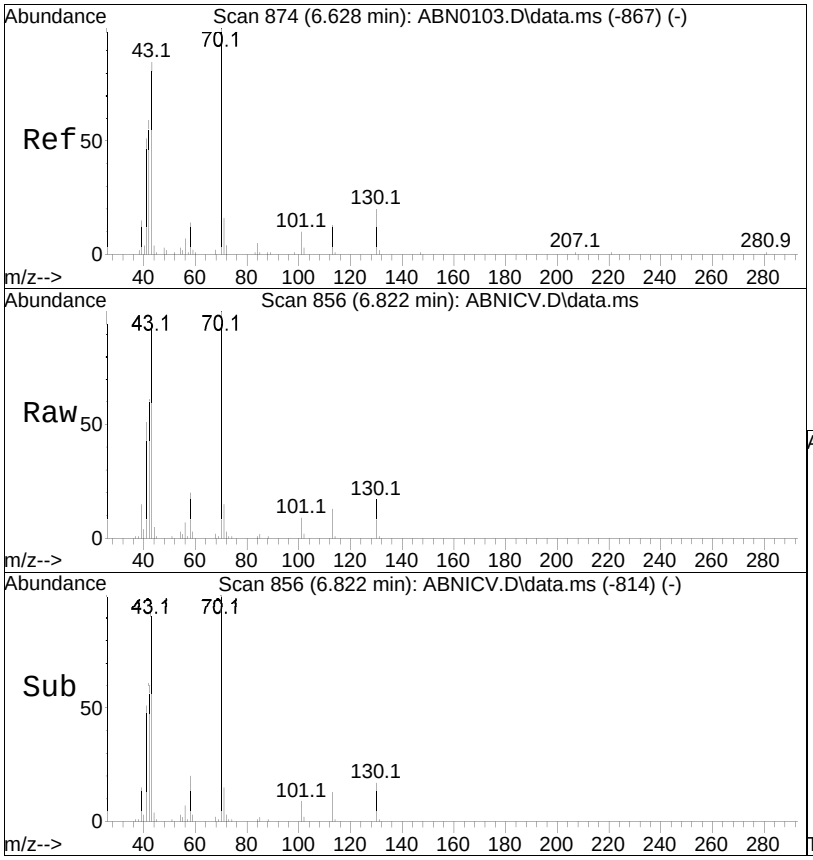


#16
Hexachloroethane
Concen: 4.80 ug/ml
RT: 6.875 min Scan# 865
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 2 Sep 2023 8:07 pm

Tgt Ion:117 Resp: 33051

Ion	Ratio	Lower	Upper
117	100		
201	94.7	58.6	87.8#
199	59.7	36.9	55.3#

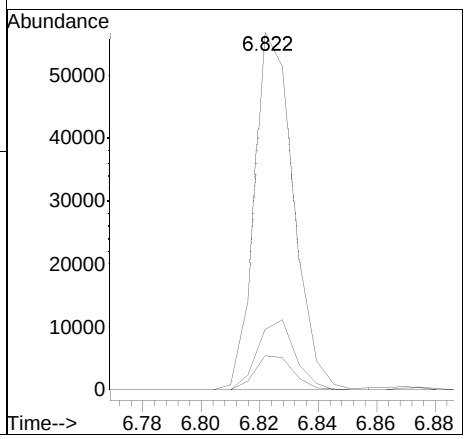


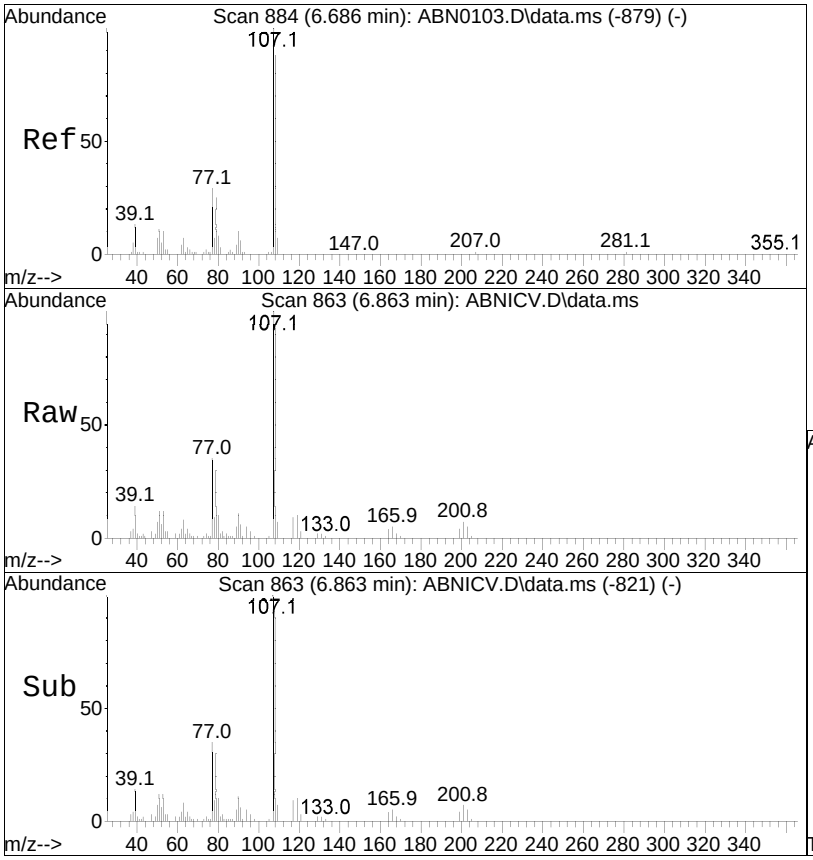


#17
n-Nitrosodi-n-propylamine
Concen: 4.85 ug/ml
RT: 6.822 min Scan# 856
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 2 Sep 2023 8:07 pm

Tgt Ion: 70 Resp: 52624

Ion	Ratio	Lower	Upper
70	100		
130	18.6	18.2	27.4
101	9.4	7.8	11.8

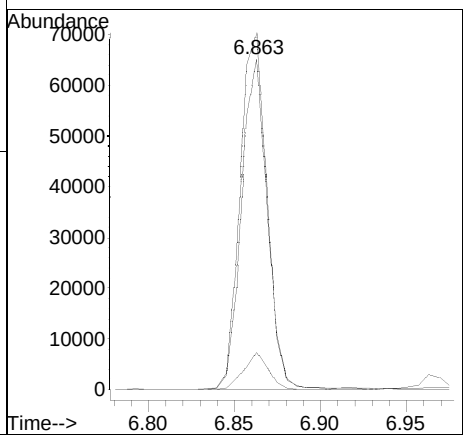


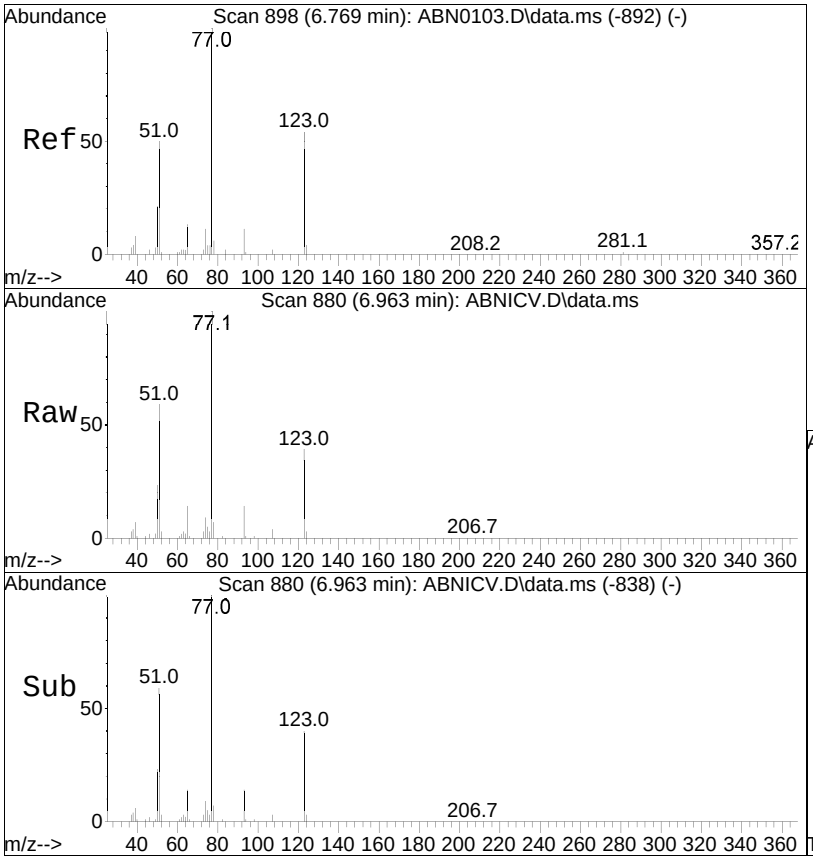


#18
3-Methylphenol/4-Methylphenol
Concen: 4.85 ug/ml
RT: 6.863 min Scan# 863
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 2 Sep 2023 8:07 pm

Tgt Ion:108 Resp: 68011

Ion	Ratio	Lower	Upper
108	100		
107	111.8	88.6	132.8
90	10.6	8.8	13.2

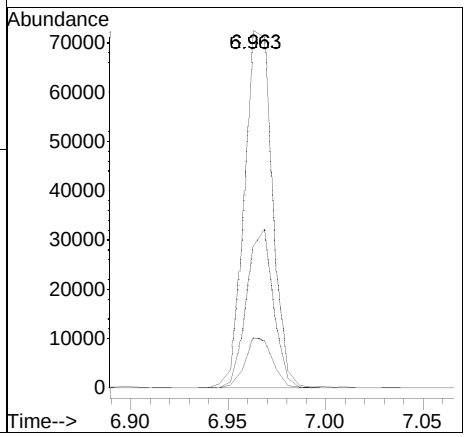


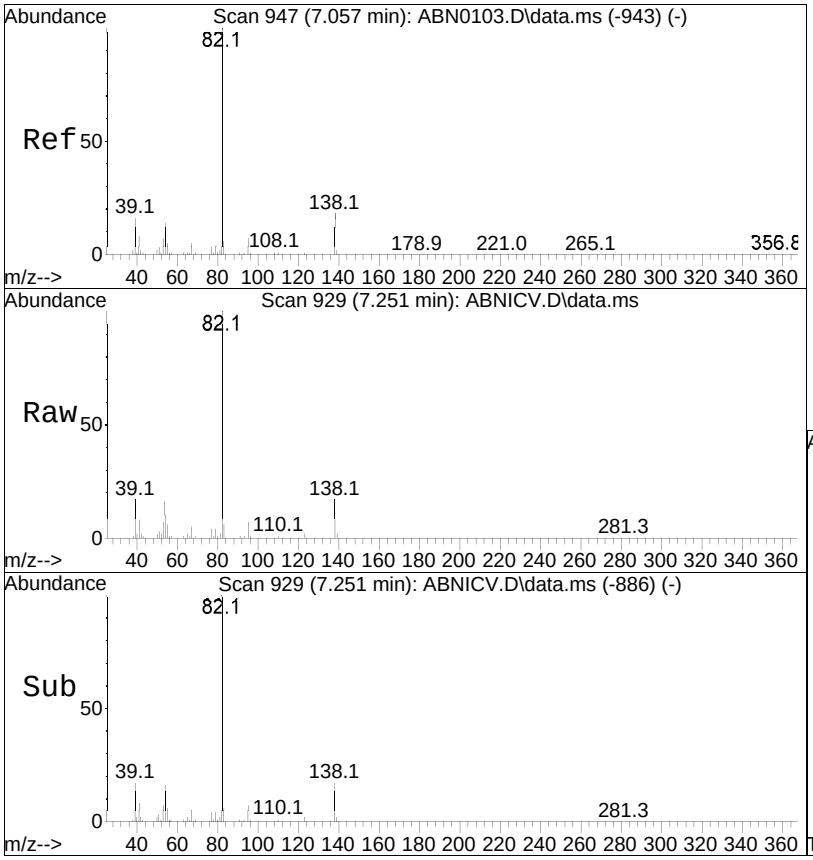


#20
Nitrobenzene
Concen: 4.72 ug/ml
RT: 6.963 min Scan# 880
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 2 Sep 2023 8:07 pm

Tgt Ion: 77 Resp: 71851

Ion	Ratio	Lower	Upper
77	100		
123	42.5	36.3	54.5
65	14.0	11.6	17.4

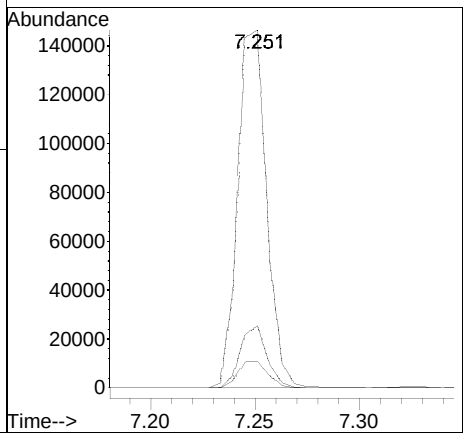


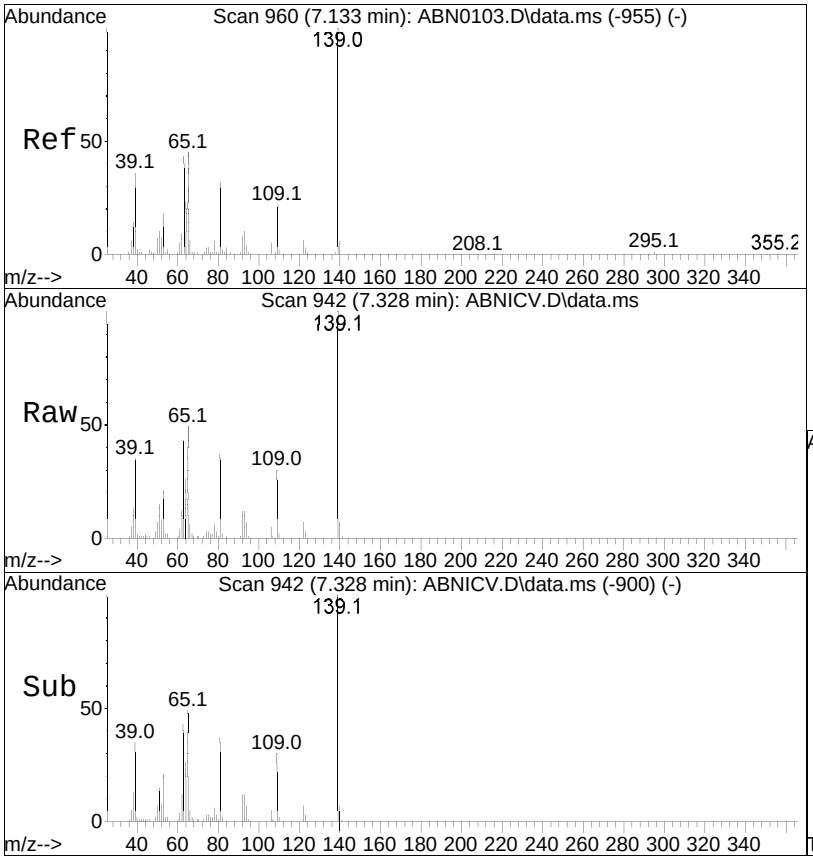


#21
Isophorone
Concen: 4.79 ug/ml
RT: 7.251 min Scan# 929
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 2 Sep 2023 8:07 pm

Tgt Ion: 82 Resp: 139339

Ion	Ratio	Lower	Upper
82	100		
138	16.1	14.7	22.1
95	7.7	5.2	7.8

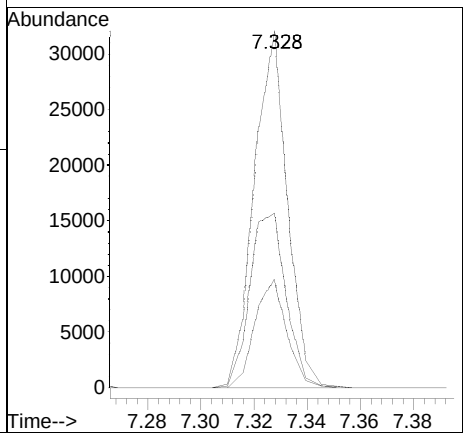


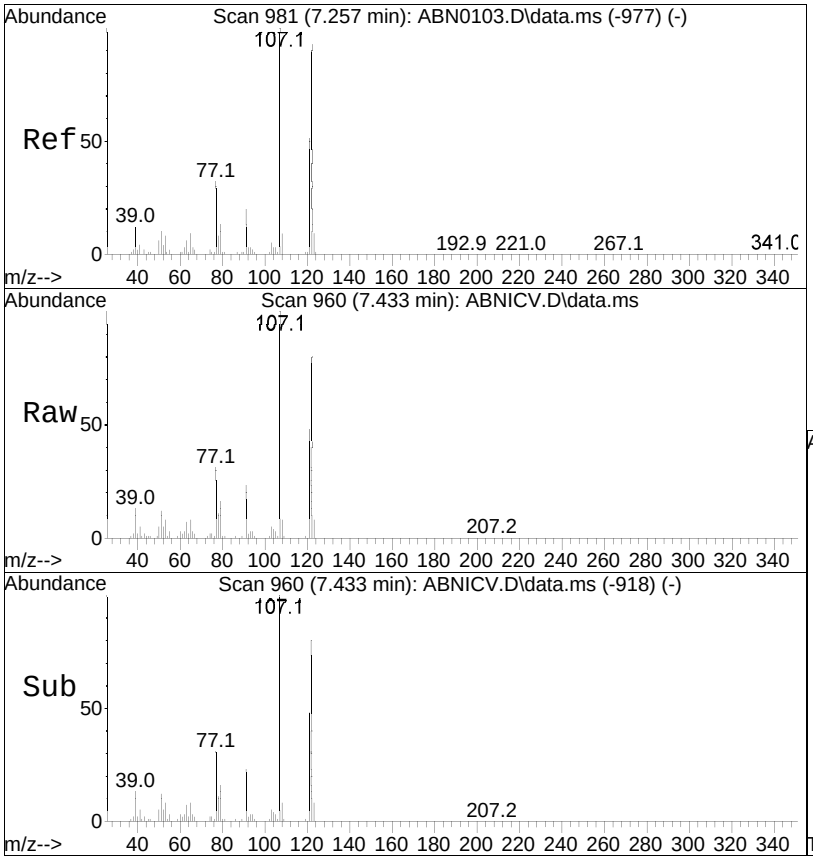


#22
2-Nitrophenol
Concen: 4.54 ug/ml
RT: 7.328 min Scan# 942
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 2 Sep 2023 8:07 pm

Tgt Ion:139 Resp: 27634

Ion	Ratio	Lower	Upper
139	100		
109	29.6	19.4	29.0#
65	53.6	46.1	69.1

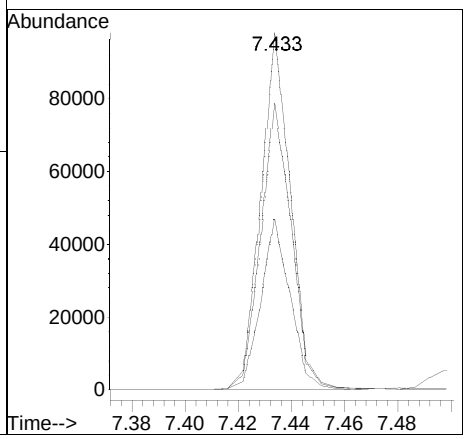


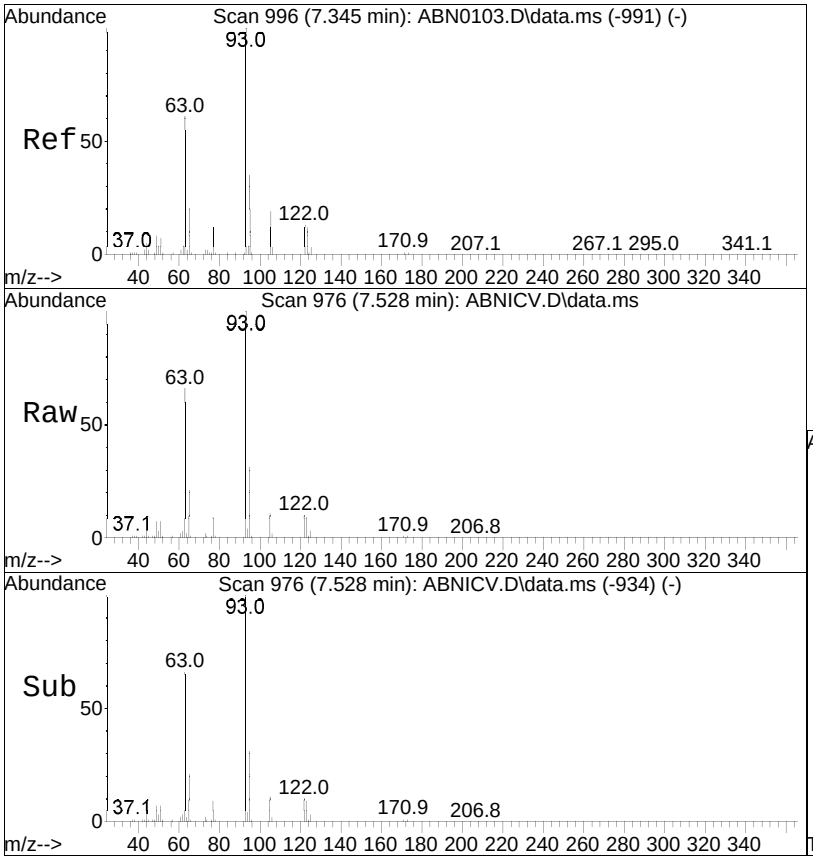


#23
2,4-Dimethylphenol
Concen: 5.03 ug/ml
RT: 7.433 min Scan# 960
Delta R.T. -0.001 min
Lab File: ABNICV.D
Acq: 2 Sep 2023 8:07 pm

Tgt Ion:107 Resp: 75608

Ion	Ratio	Lower	Upper
107	100		
121	47.5	40.0	60.0
122	82.7	70.2	105.4

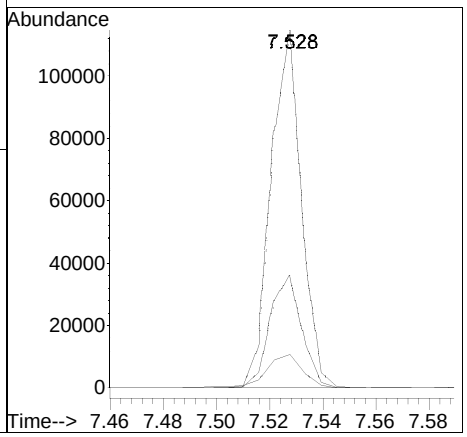


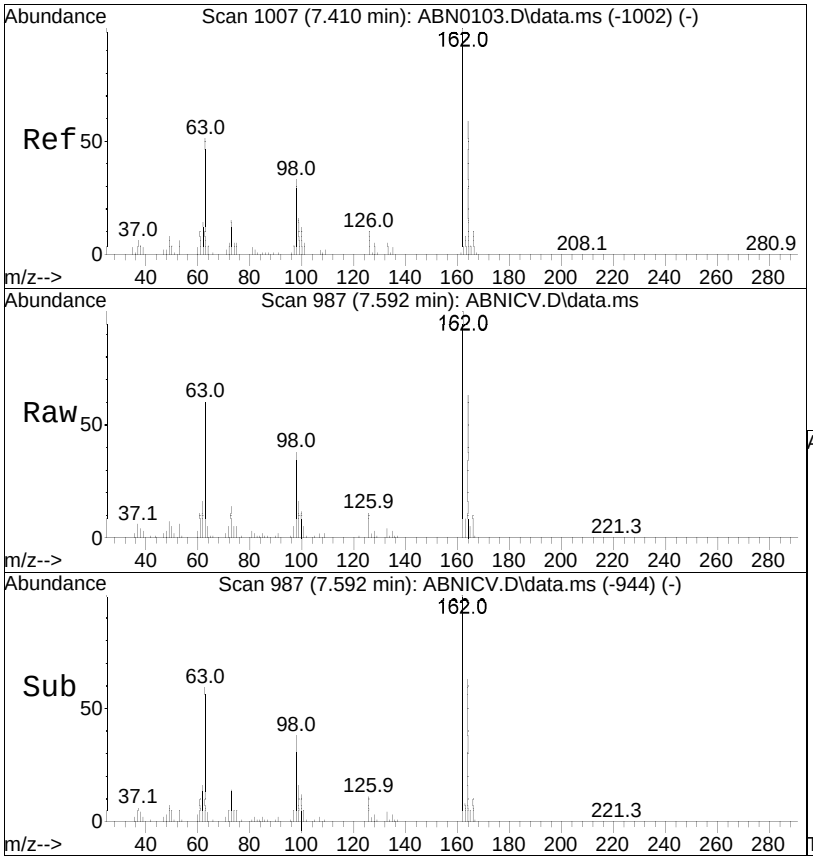


#24
Bis(2-chloroethoxy)methane
Concen: 4.97 ug/ml
RT: 7.528 min Scan# 976
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 2 Sep 2023 8:07 pm

Tgt Ion: 93 Resp: 90611

Ion	Ratio	Lower	Upper
93	100		
95	33.0	25.8	38.8
123	11.4	10.1	15.1

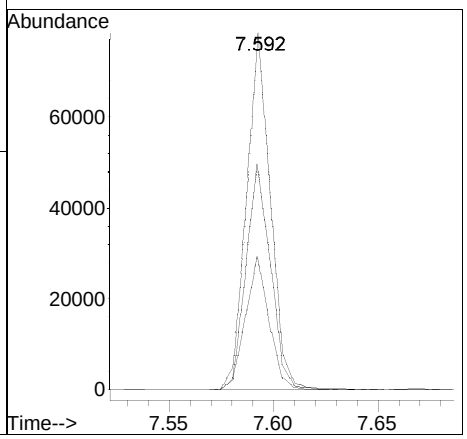


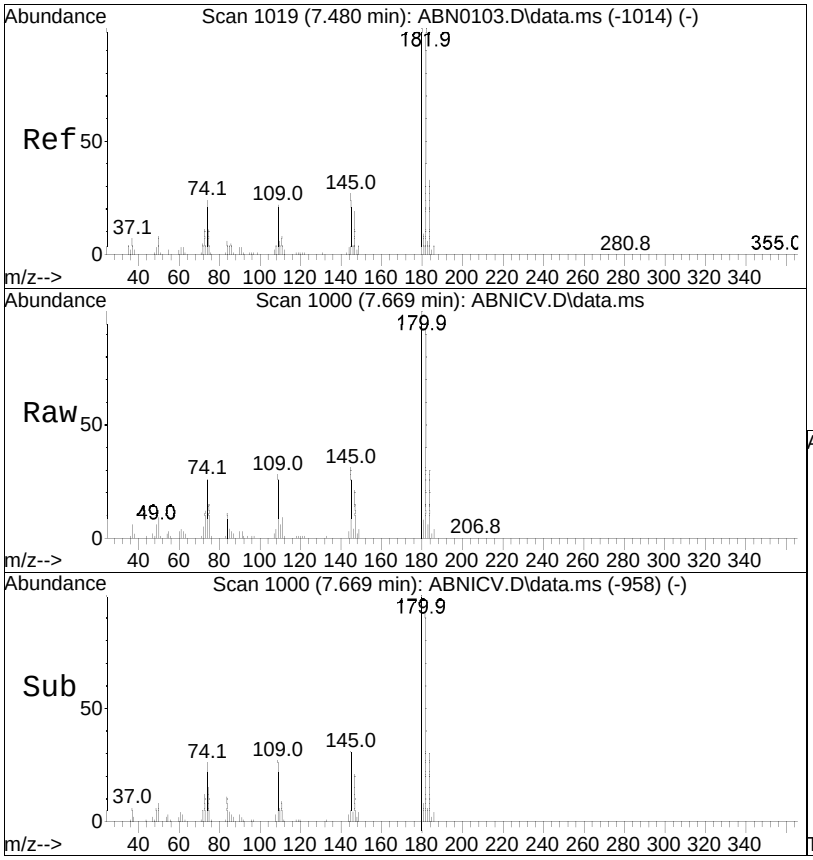


#25
2,4-Dichlorophenol
Concen: 4.93 ug/ml
RT: 7.592 min Scan# 987
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 2 Sep 2023 8:07 pm

Tgt Ion:162 Resp: 62268

Ion	Ratio	Lower	Upper
162	100		
164	64.9	51.0	76.4
98	37.1	32.2	48.2

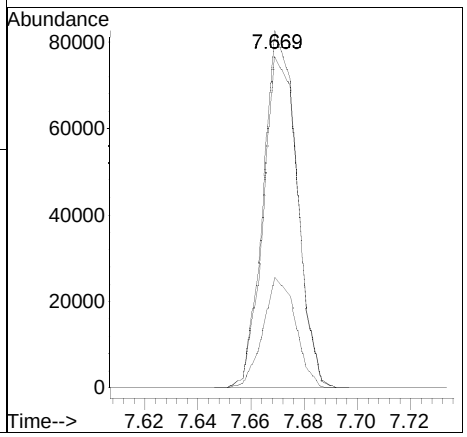


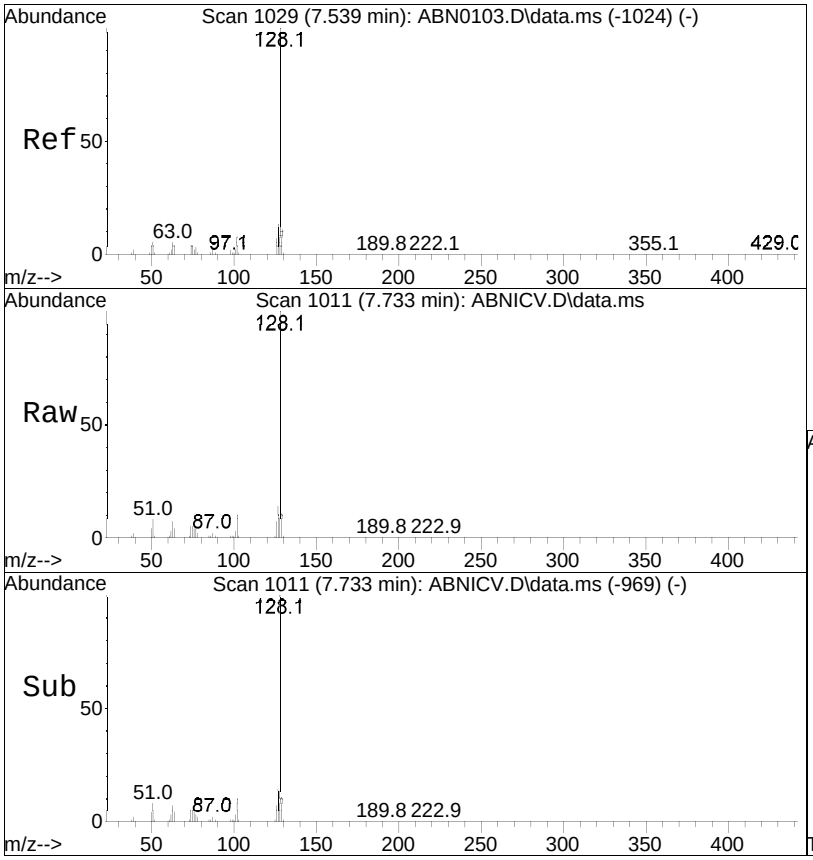


#26
1,2,4-Trichlorobenzene
Concen: 4.99 ug/ml
RT: 7.669 min Scan# 1000
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 2 Sep 2023 8:07 pm

Tgt Ion:180 Resp: 72447

Ion	Ratio	Lower	Upper
180	100		
182	95.2	76.0	114.0
145	30.2	25.7	38.5

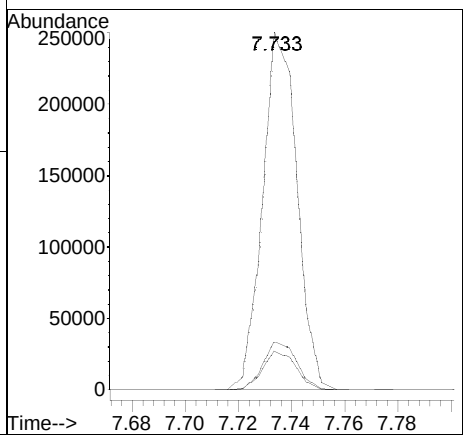


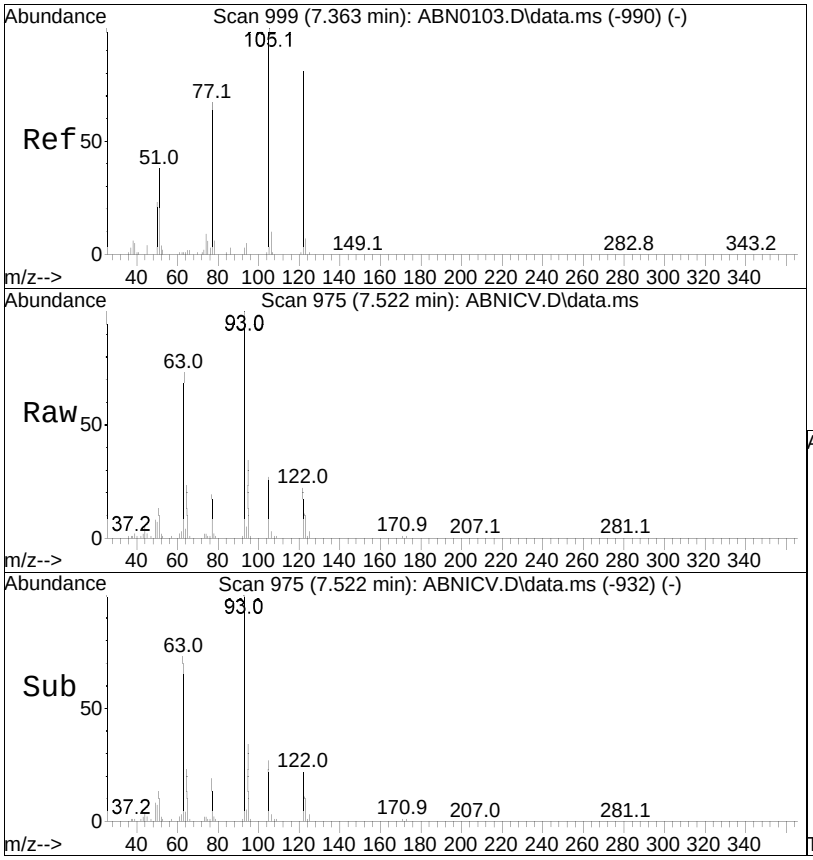


#35
Naphthalene
Concen: 4.97 ug/ml
RT: 7.733 min Scan# 1011
Delta R.T. -0.001 min
Lab File: ABNICV.D
Acq: 2 Sep 2023 8:07 pm

Tgt Ion:128 Resp: 222032

Ion	Ratio	Lower	Upper
128	100		
129	10.7	8.7	13.1
127	13.3	10.3	15.5

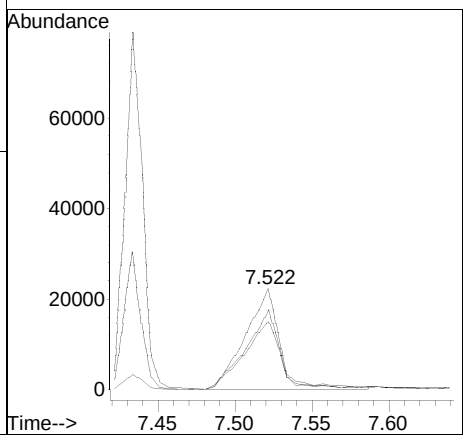


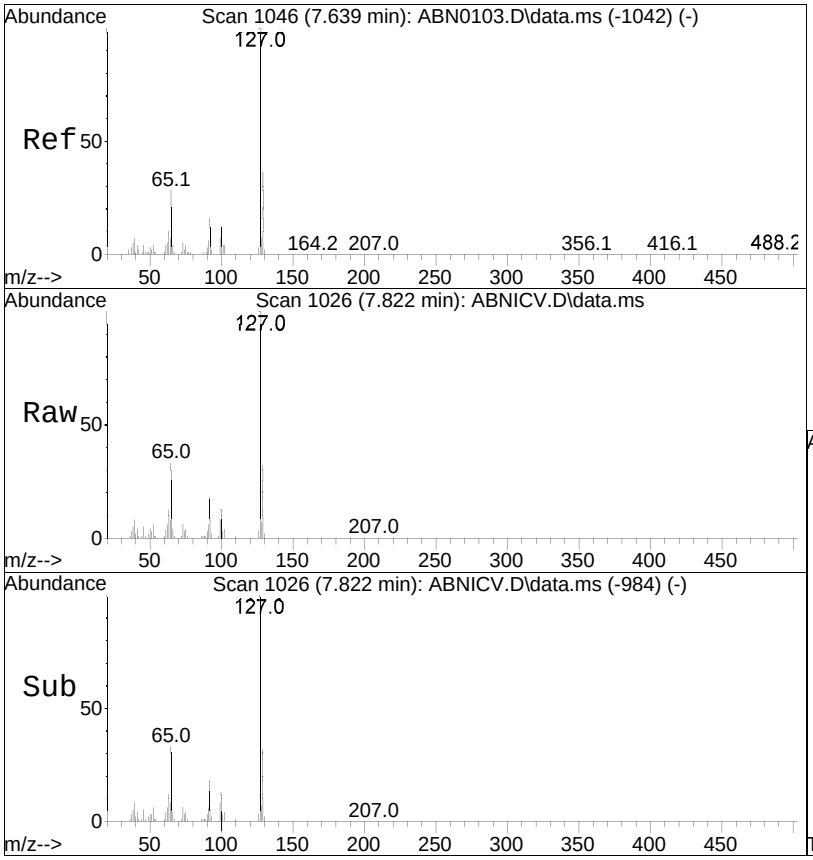


#36
Benzoic Acid
Concen: 4.51 ug/ml
RT: 7.522 min Scan# 975
Delta R.T. 0.006 min
Lab File: ABNICV.D
Acq: 2 Sep 2023 8:07 pm

Tgt Ion:105 Resp: 35323

Ion	Ratio	Lower	Upper
105	100		
122	77.3	59.9	89.9
77	70.6	60.1	90.1

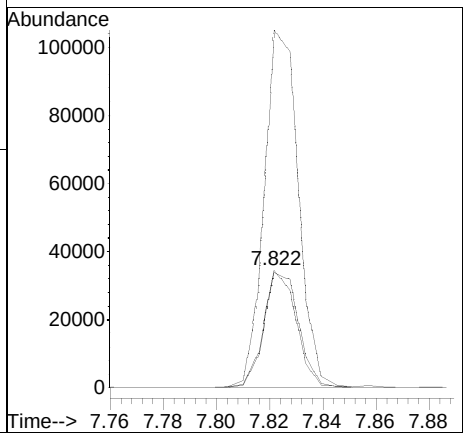


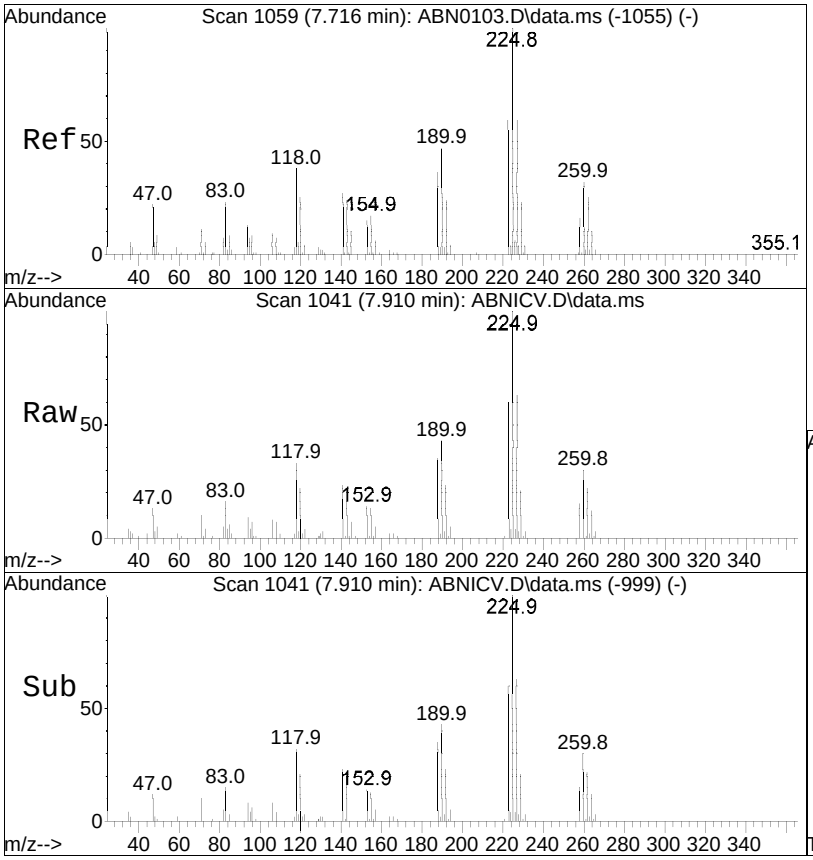


#37
4-Chloroaniline
Concen: 5.00 ug/ml
RT: 7.822 min Scan# 1026
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 2 Sep 2023 8:07 pm

Tgt Ion: 65 Resp: 29251

Ion	Ratio	Lower	Upper
65	100		
127	318.2	237.6	356.4
129	104.1	76.3	114.5

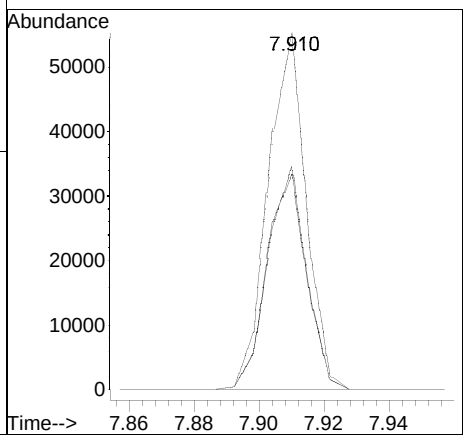


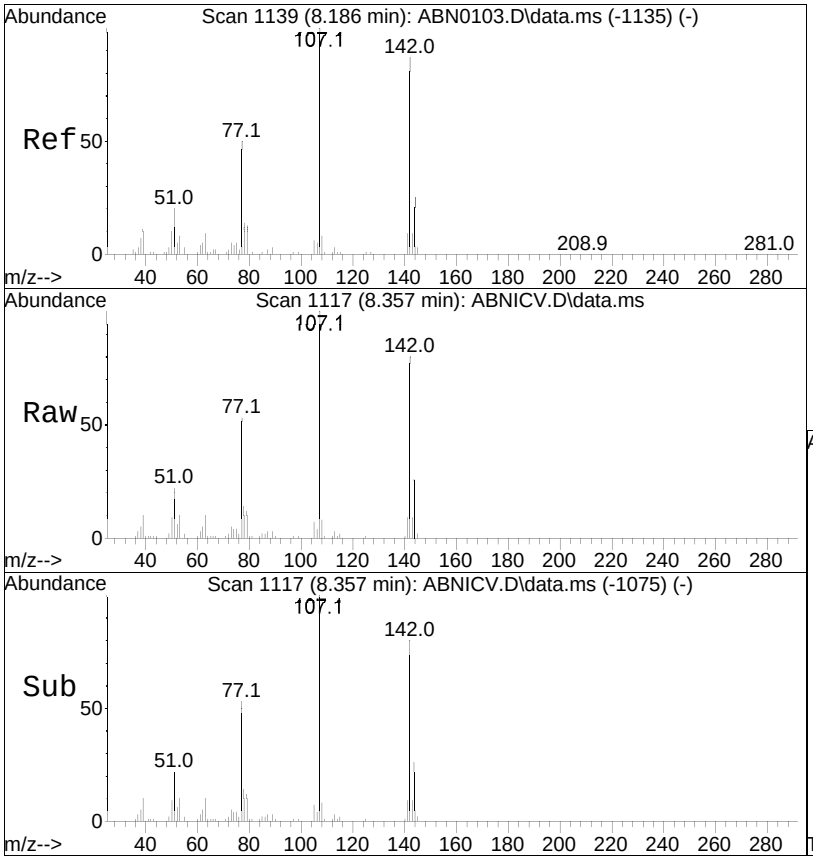


#38
Hexachlorobutadiene
Concen: 4.91 ug/ml
RT: 7.910 min Scan# 1041
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 2 Sep 2023 8:07 pm

Tgt Ion:225 Resp: 44756

Ion	Ratio	Lower	Upper
225	100		
223	63.3	50.3	75.5
227	63.8	52.2	78.2

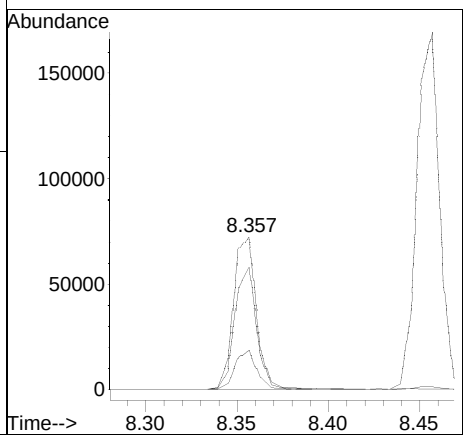


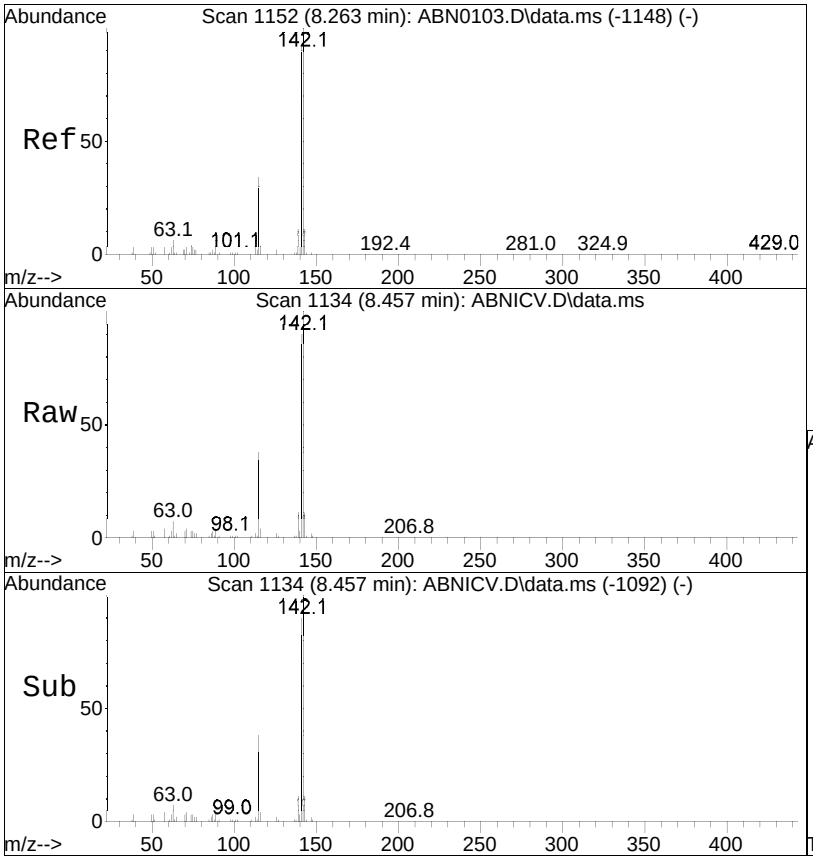


#39
p-Chloro-m-cresol
Concen: 4.93 ug/ml
RT: 8.357 min Scan# 1117
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 2 Sep 2023 8:07 pm

Tgt Ion:107 Resp: 63643

Ion	Ratio	Lower	Upper
107	100		
144	24.2	20.9	31.3
142	76.3	66.1	99.1

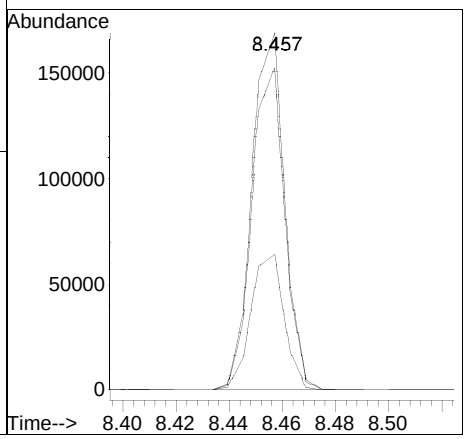


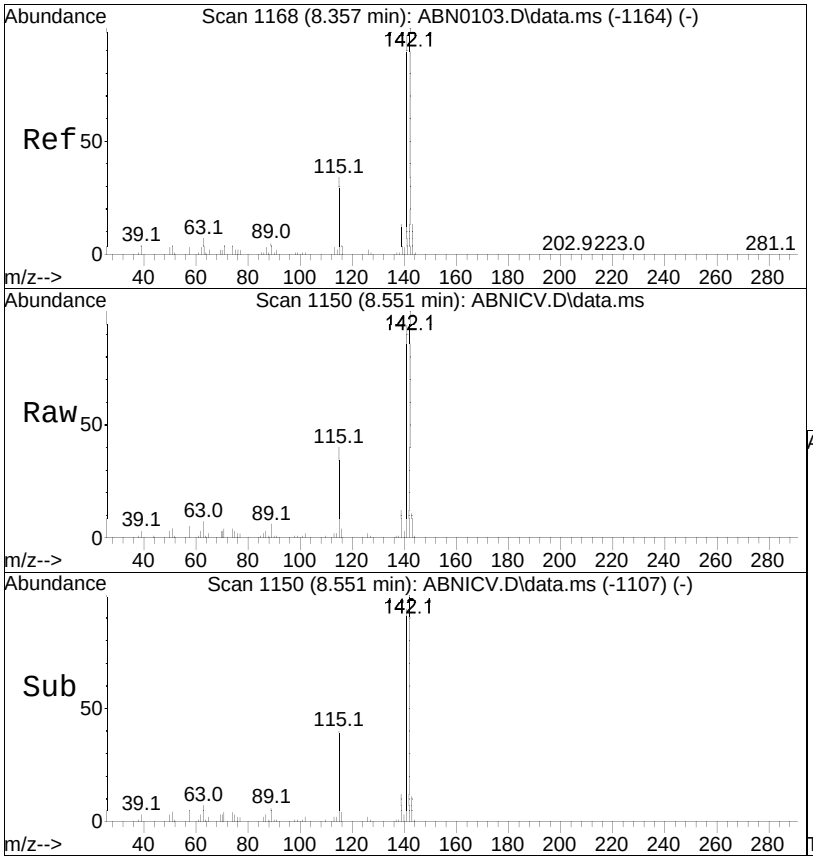


#40
2-Methylnaphthalene
Concen: 5.09 ug/ml
RT: 8.457 min Scan# 1134
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 2 Sep 2023 8:07 pm

Tgt Ion:142 Resp: 144820

Ion	Ratio	Lower	Upper
142	100		
141	90.4	69.6	104.4
115	38.7	26.6	40.0

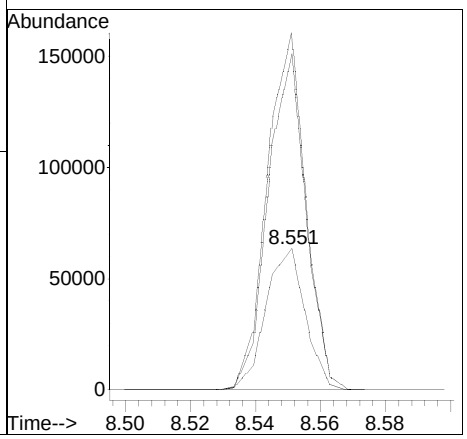


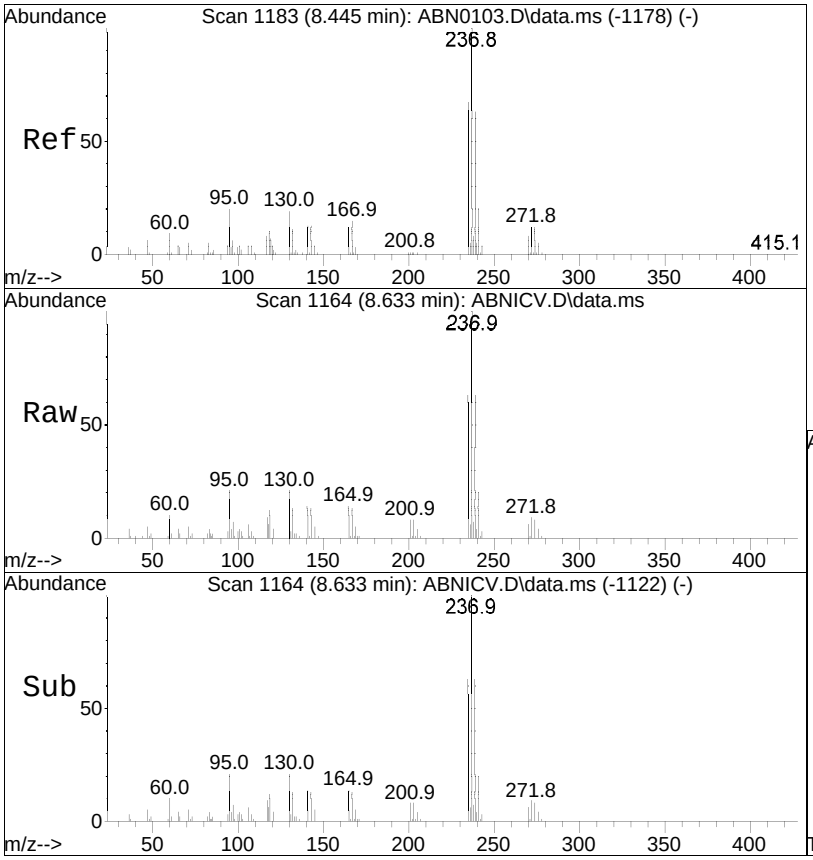


#41
1-Methylnaphthalene
Concen: 5.04 ug/ml
RT: 8.551 min Scan# 1150
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 2 Sep 2023 8:07 pm

Tgt Ion:115 Resp: 53738

Ion	Ratio	Lower	Upper
115	100		
141	227.4	207.8	311.6
142	246.8	226.8	340.2

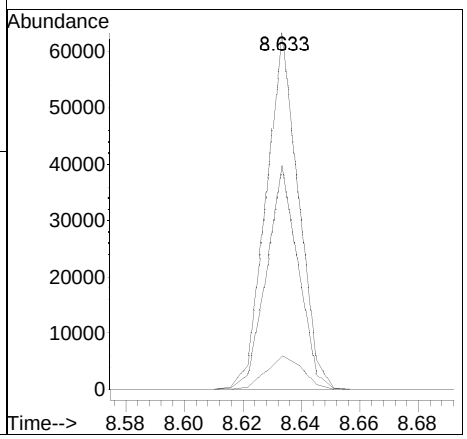


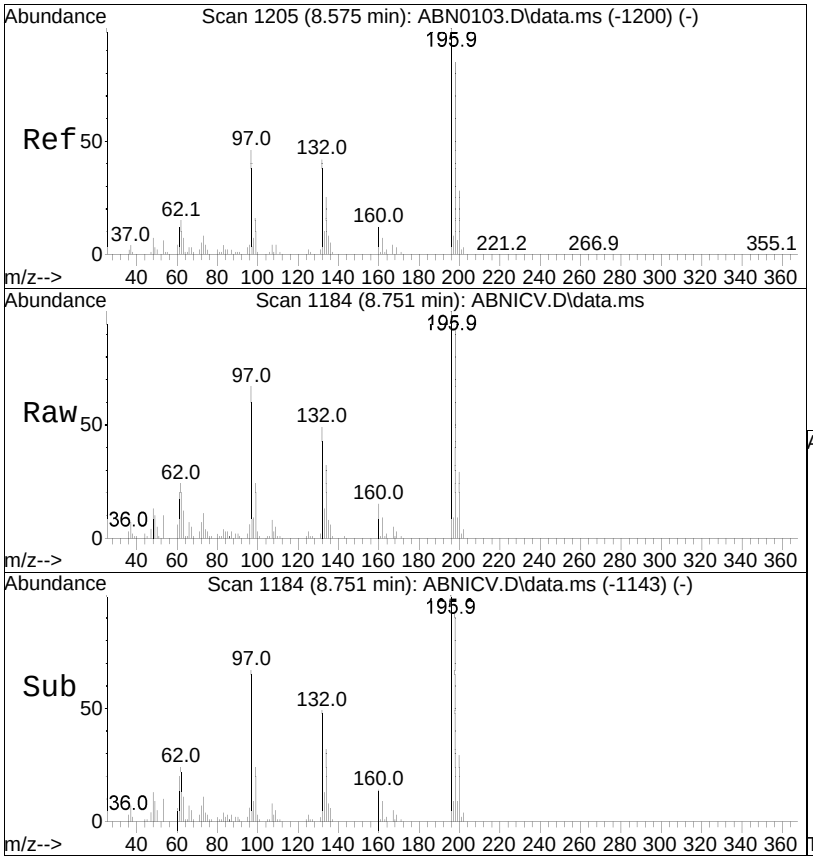


#42
Hexachlorocyclopentadiene
Concen: 5.00 ug/ml
RT: 8.633 min Scan# 1164
Delta R.T. -0.001 min
Lab File: ABNICV.D
Acq: 2 Sep 2023 8:07 pm

Tgt Ion:237 Resp: 48573

Ion	Ratio	Lower	Upper
237	100		
235	61.6	49.7	74.5
272	10.6	9.8	14.6

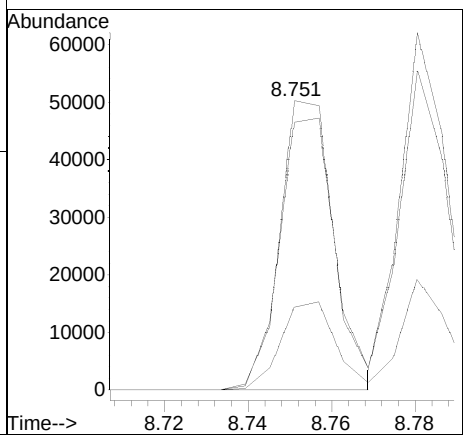


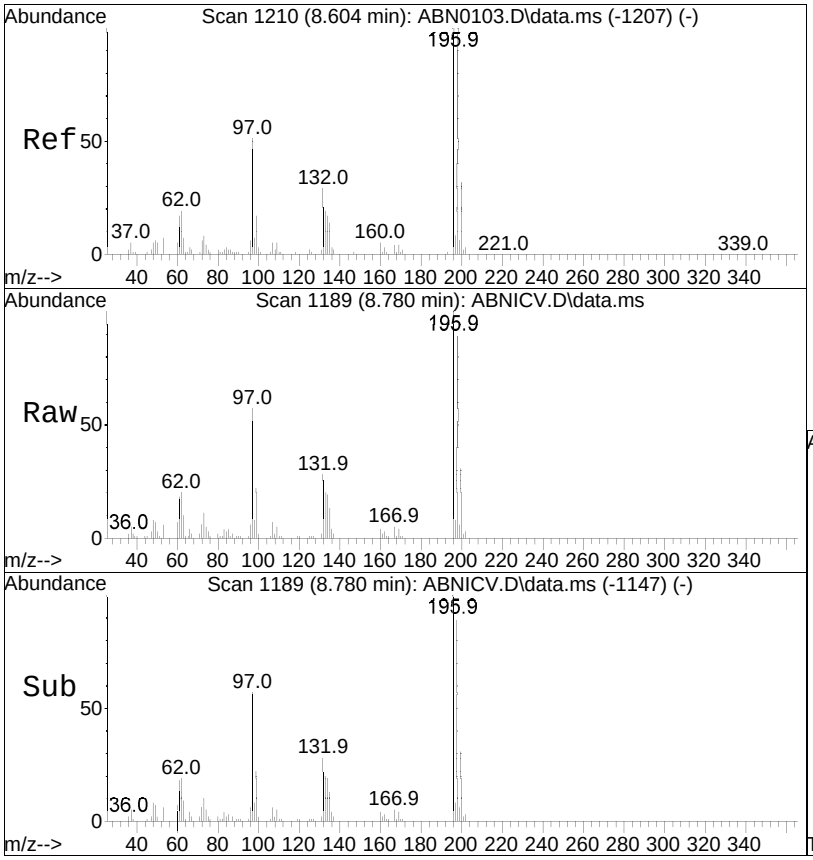


#43
2,4,6-Trichlorophenol
Concen: 4.88 ug/ml
RT: 8.751 min Scan# 1184
Delta R.T. -0.006 min
Lab File: ABNICV.D
Acq: 2 Sep 2023 8:07 pm

Tgt Ion:196 Resp: 45102

Ion	Ratio	Lower	Upper
196	100		
198	96.7	77.5	116.3
200	31.2	23.8	35.6

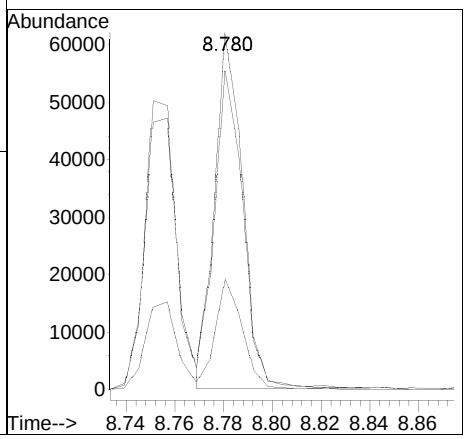


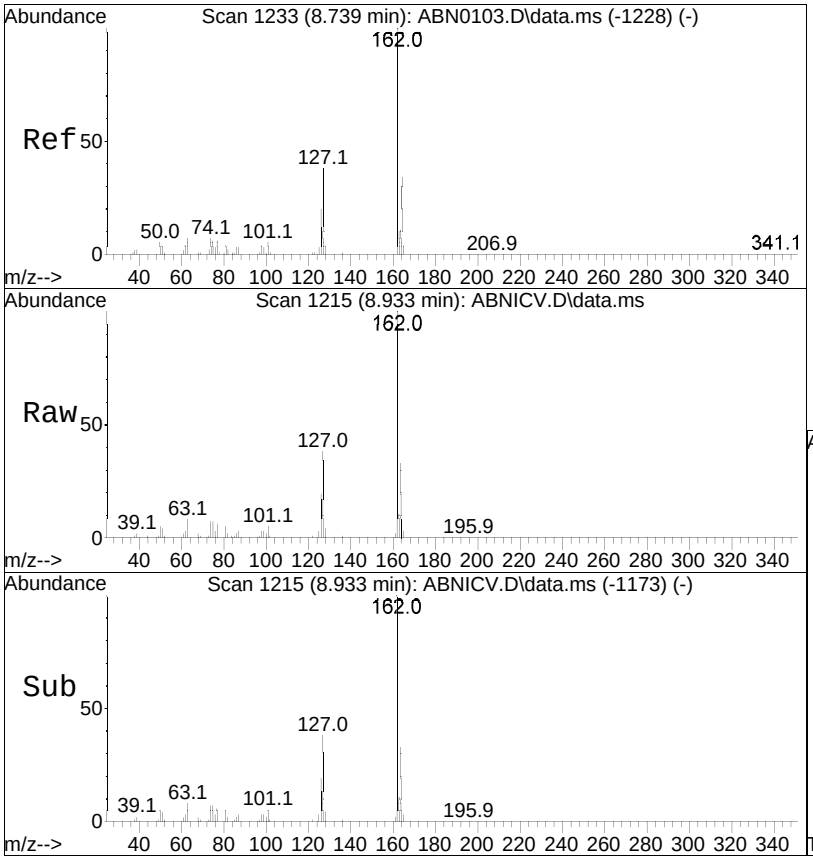


#44
2,4,5-Trichlorophenol
Concen: 5.02 ug/ml
RT: 8.780 min Scan# 1189
Delta R.T. -0.001 min
Lab File: ABNICV.D
Acq: 2 Sep 2023 8:07 pm

Tgt Ion:196 Resp: 49849

Ion	Ratio	Lower	Upper
196	100		
200	30.2	25.4	38.0
198	90.2	78.0	117.0

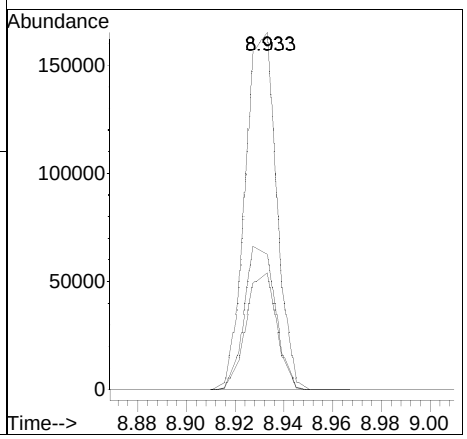


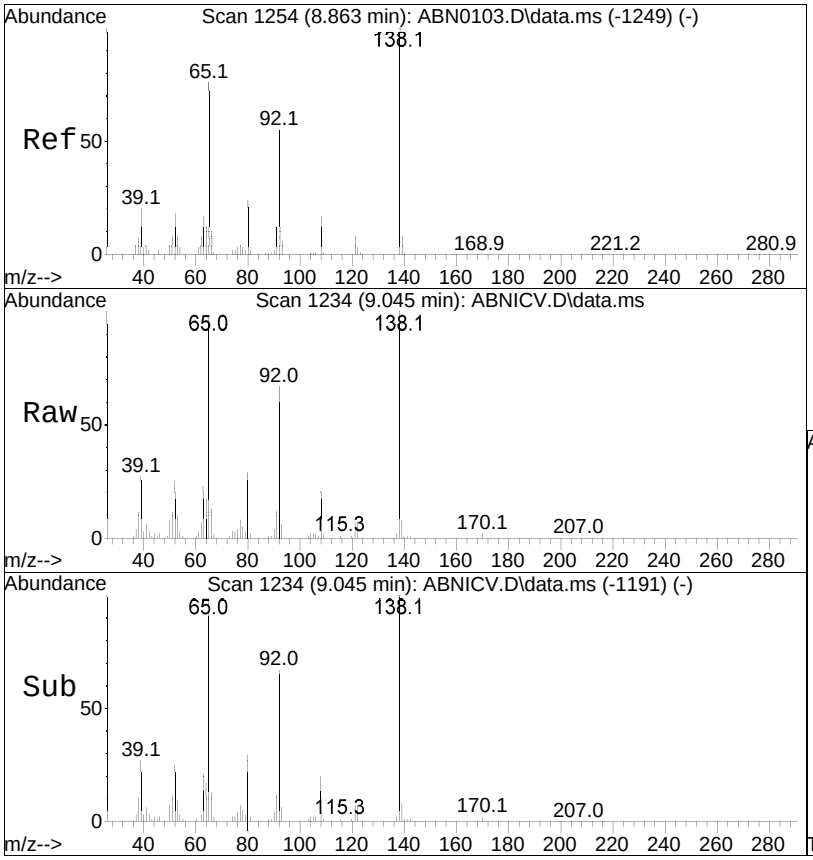


#46
2-Chloronaphthalene
Concen: 4.97 ug/ml
RT: 8.933 min Scan# 1215
Delta R.T. -0.001 min
Lab File: ABNICV.D
Acq: 2 Sep 2023 8:07 pm

Tgt Ion:162 Resp: 147157

Ion	Ratio	Lower	Upper
162	100		
127	39.9	32.2	48.4
164	32.2	25.7	38.5

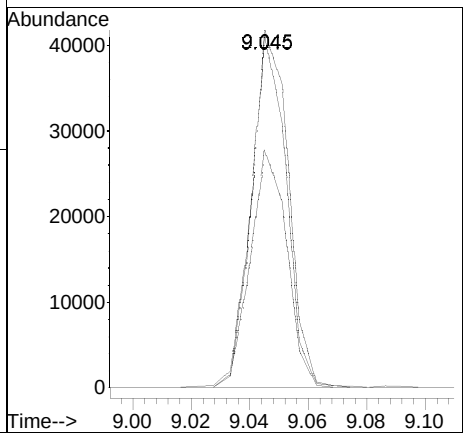


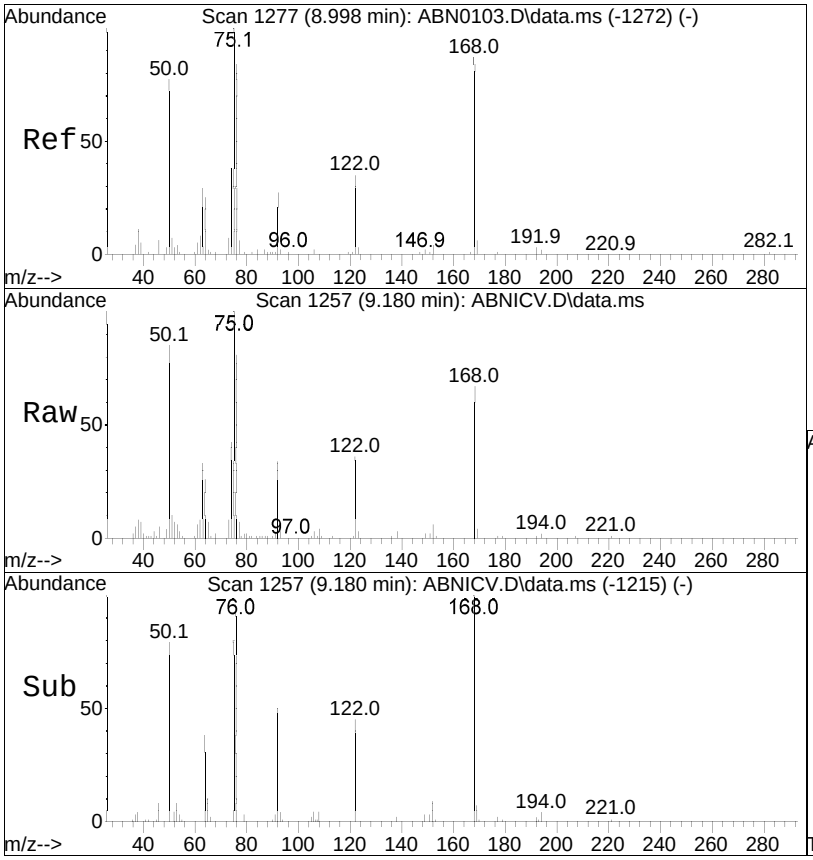


#47
2-Nitroaniline
Concen: 4.45 ug/ml
RT: 9.045 min Scan# 1234
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 2 Sep 2023 8:07 pm

Tgt Ion:138 Resp: 36042

Ion	Ratio	Lower	Upper
138	100		
92	66.3	53.5	80.3
65	94.5	86.3	129.5

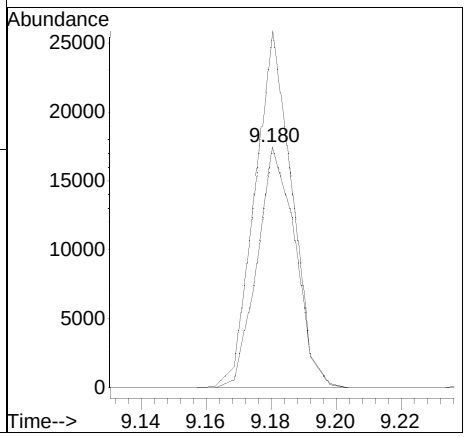


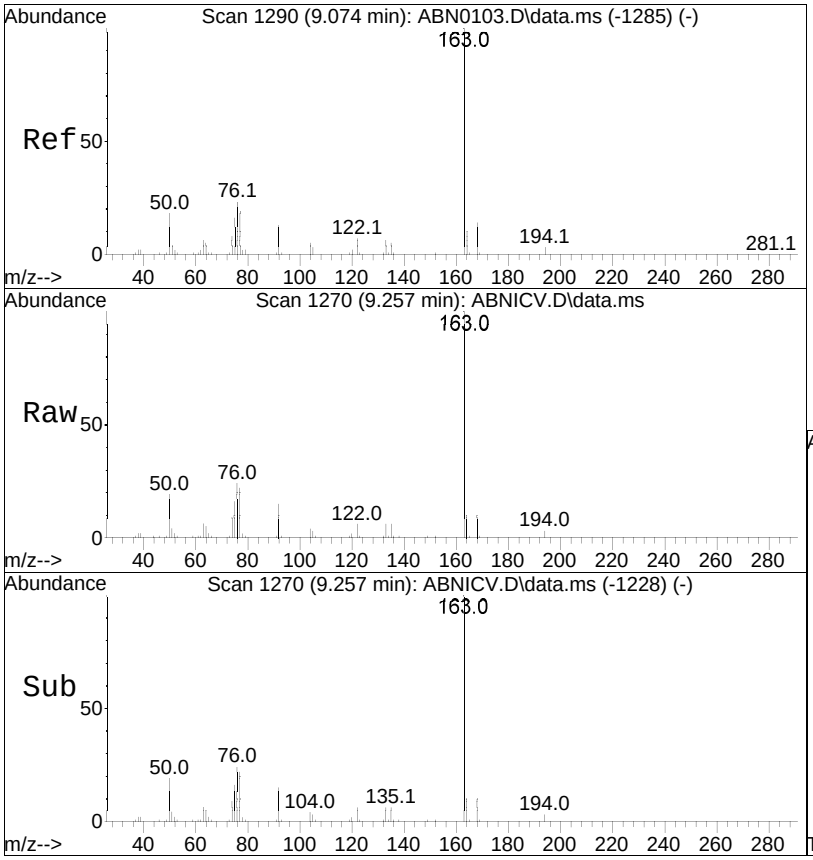


#48
1,4-Dinitrobenzene
Concen: 4.32 ug/ml
RT: 9.180 min Scan# 1257
Delta R.T. -0.001 min
Lab File: ABNICV.D
Acq: 2 Sep 2023 8:07 pm

Tgt Ion:168 Resp: 14246

Ion	Ratio	Lower	Upper
168	100		
75	143.2	121.8	182.8

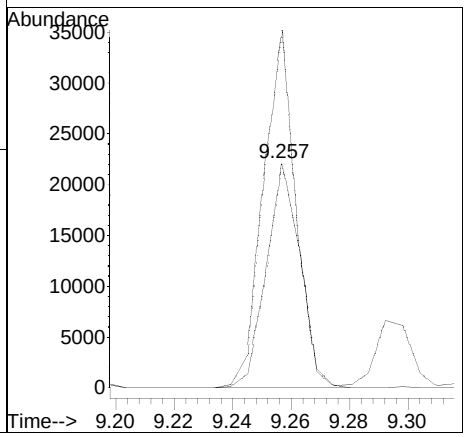


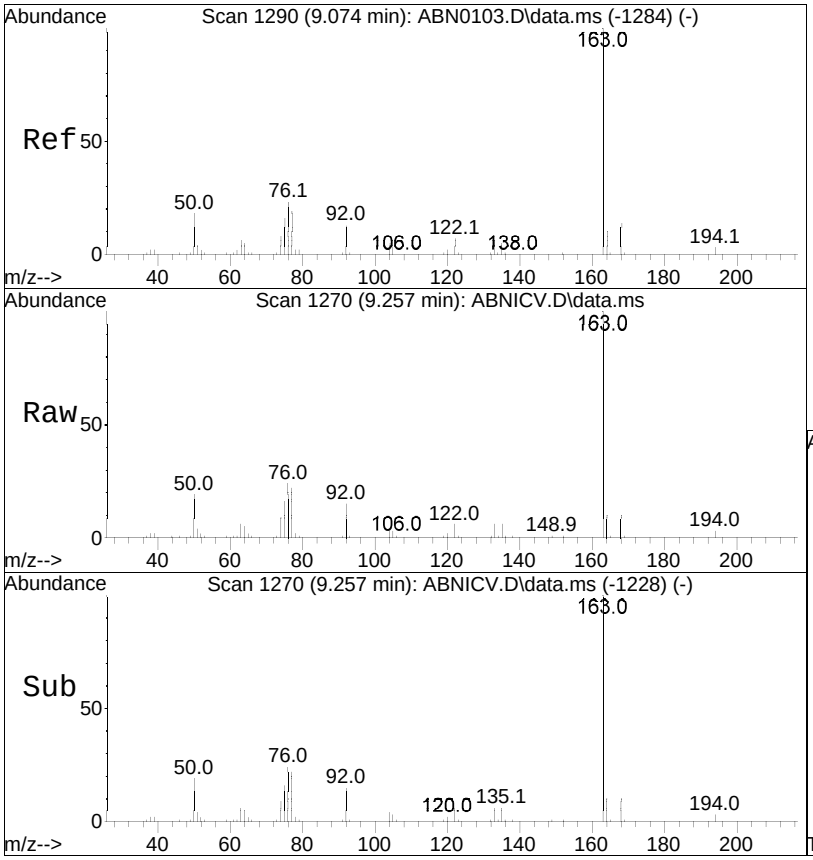


#49
1,3-Dinitrobenzene
Concen: 4.54 ug/ml
RT: 9.257 min Scan# 1270
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 2 Sep 2023 8:07 pm

Tgt Ion:168 Resp: 17604

Ion	Ratio	Lower	Upper
168	100		
75	151.2	22.7	34.1#

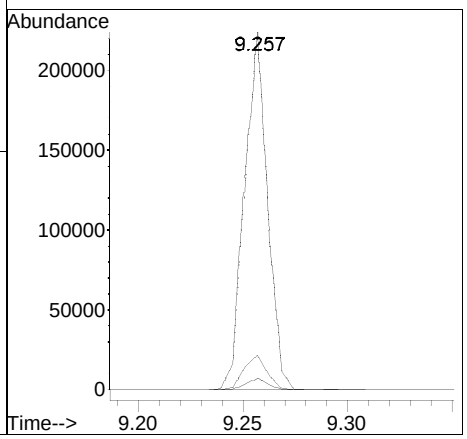


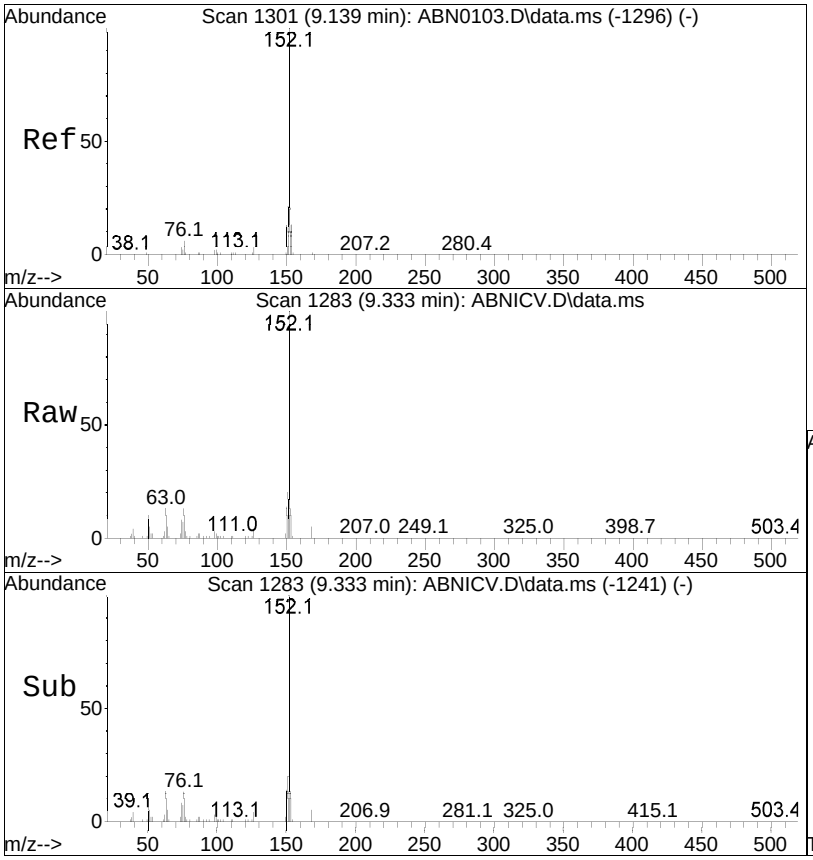


#50
Dimethyl phthalate
Concen: 4.85 ug/ml
RT: 9.257 min Scan# 1270
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 2 Sep 2023 8:07 pm

Tgt Ion:163 Resp: 169013

Ion	Ratio	Lower	Upper
163	100		
194	3.2	3.5	5.3#
164	9.9	7.9	11.9

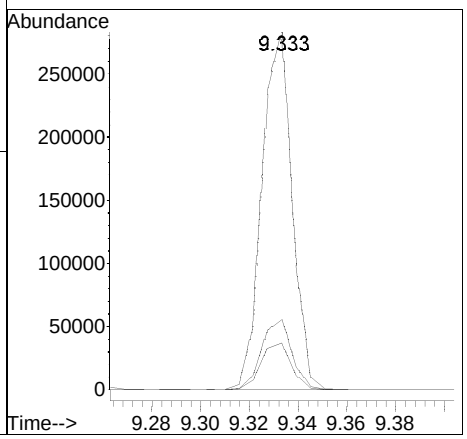


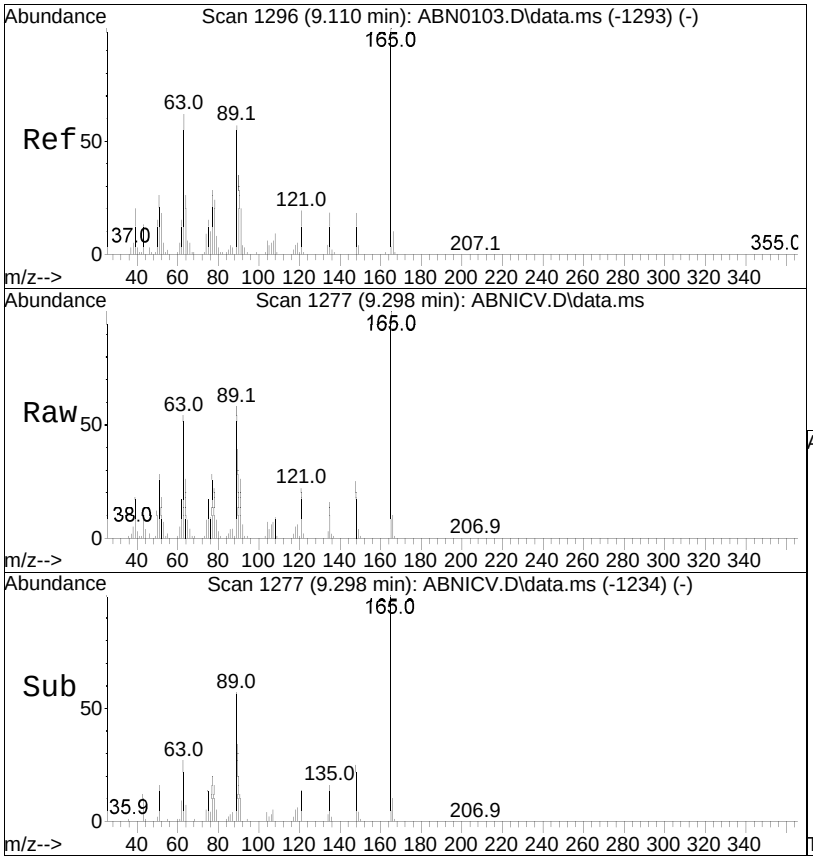


#51
Acenaphthylene
Concen: 5.03 ug/ml
RT: 9.333 min Scan# 1283
Delta R.T. -0.001 min
Lab File: ABNICV.D
Acq: 2 Sep 2023 8:07 pm

Tgt Ion:152 Resp: 240120

Ion	Ratio	Lower	Upper
152	100		
151	19.9	15.8	23.6
153	13.3	10.5	15.7

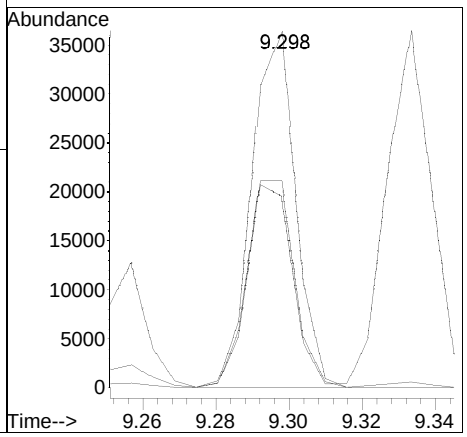


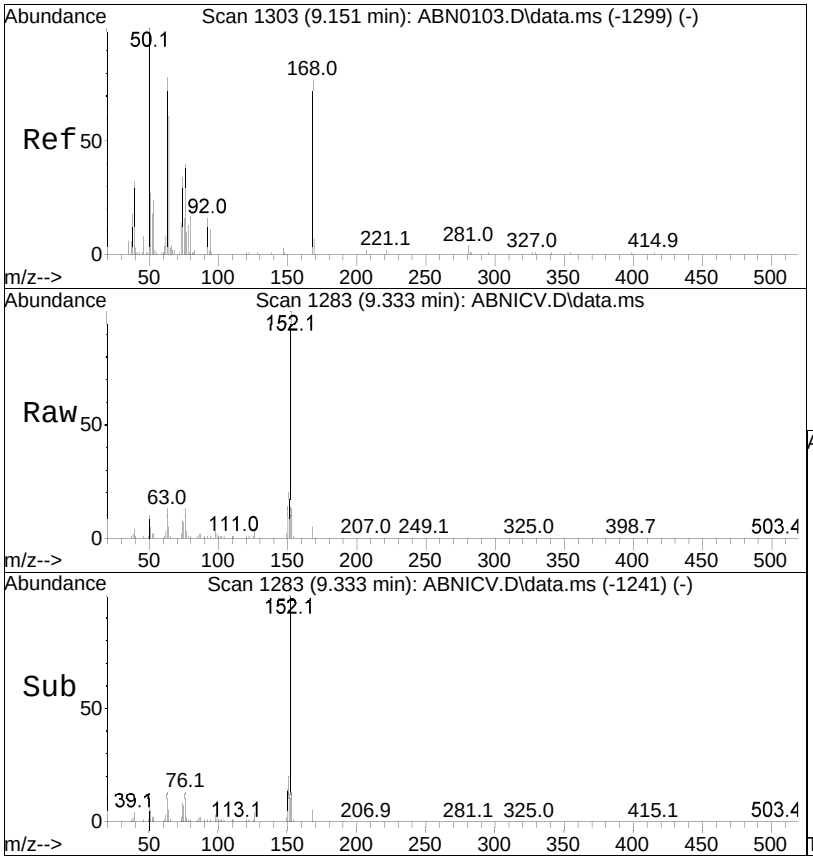


#52
2,6-Dinitrotoluene
Concen: 4.58 ug/ml
RT: 9.298 min Scan# 1277
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 2 Sep 2023 8:07 pm

Tgt Ion:165 Resp: 30463

Ion	Ratio	Lower	Upper
165	100		
89	62.8	54.2	81.2
63	59.0	64.2	96.2#

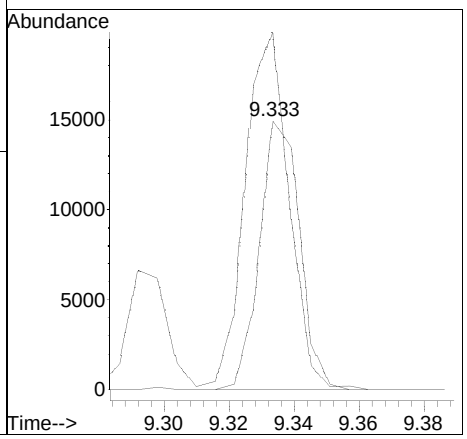


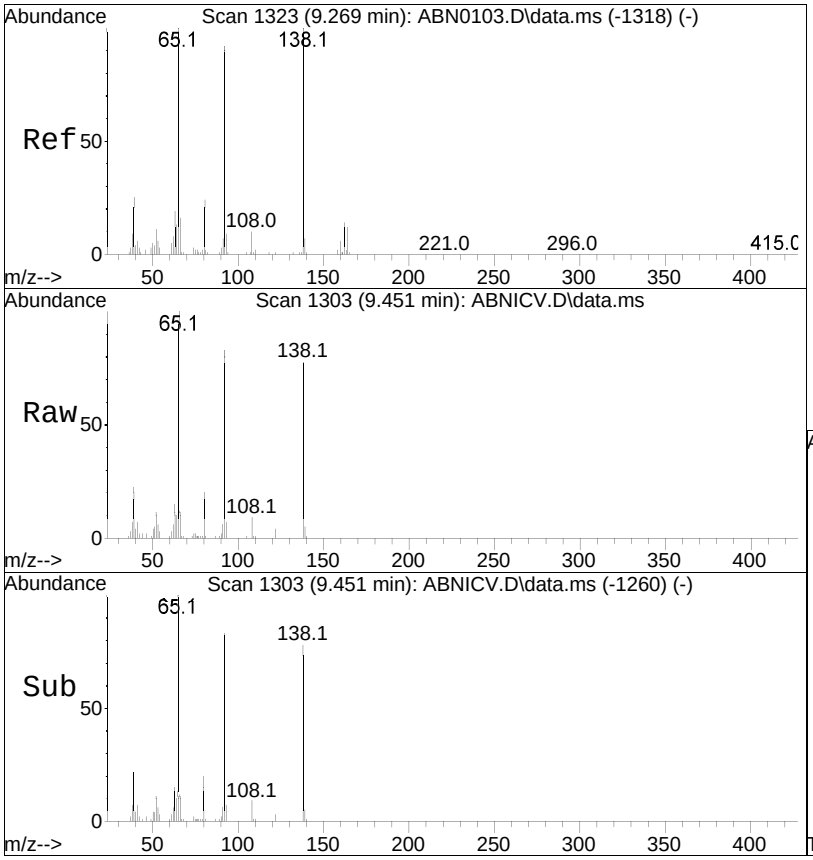


#53
1,2-Dinitrobenzene
Concen: 4.52 ug/ml
RT: 9.333 min Scan# 1283
Delta R.T. -0.001 min
Lab File: ABNICV.D
Acq: 2 Sep 2023 8:07 pm

Tgt Ion:168 Resp: 12690

Ion	Ratio	Lower	Upper
168	100		
75	145.5	30.9	46.3#

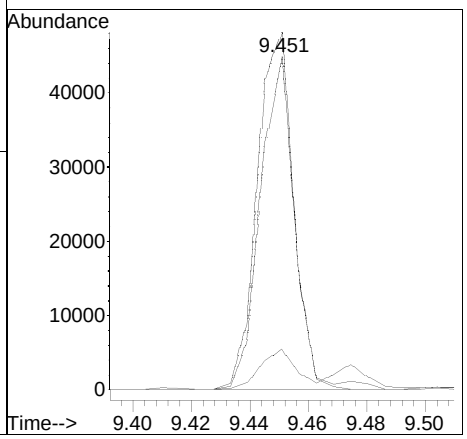


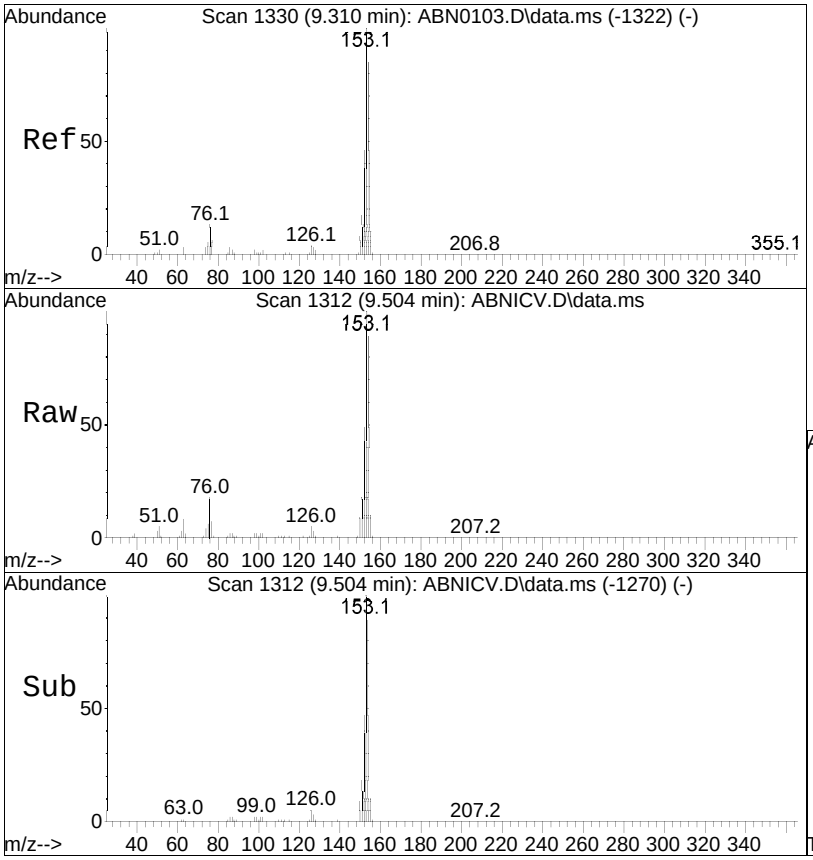


#63
3-Nitroaniline
Concen: 4.98 ug/ml
RT: 9.451 min Scan# 1303
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 2 Sep 2023 8:07 pm

Tgt Ion:138 Resp: 35610

Ion	Ratio	Lower	Upper
138	100		
92	116.8	93.4	140.2
108	13.3	9.5	14.3

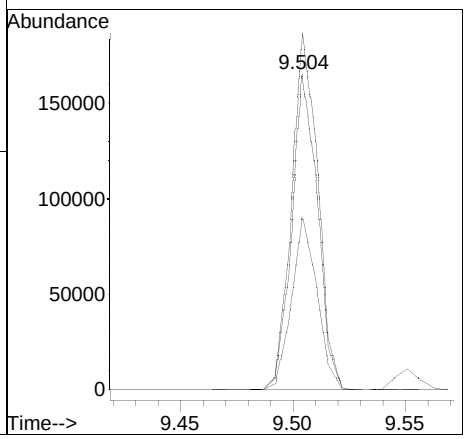


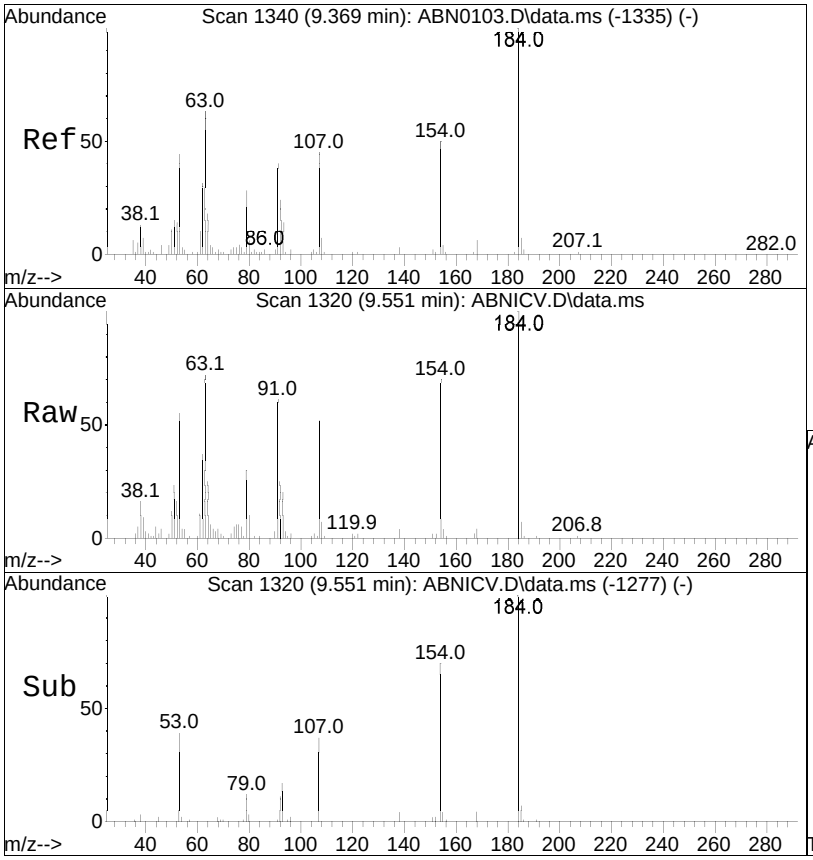


#64
Acenaphthene
Concen: 4.66 ug/ml
RT: 9.504 min Scan# 1312
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 2 Sep 2023 8:07 pm

Tgt Ion:154 Resp: 131783

Ion	Ratio	Lower	Upper
154	100		
153	114.8	85.3	127.9
152	54.3	41.4	62.0

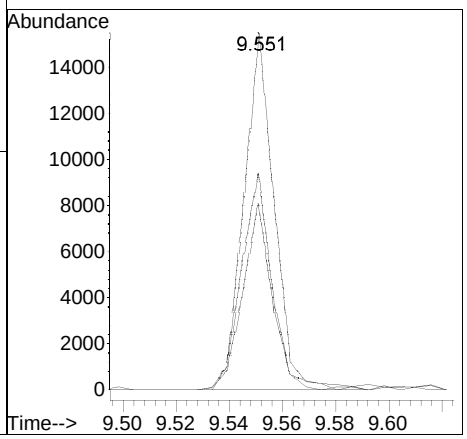


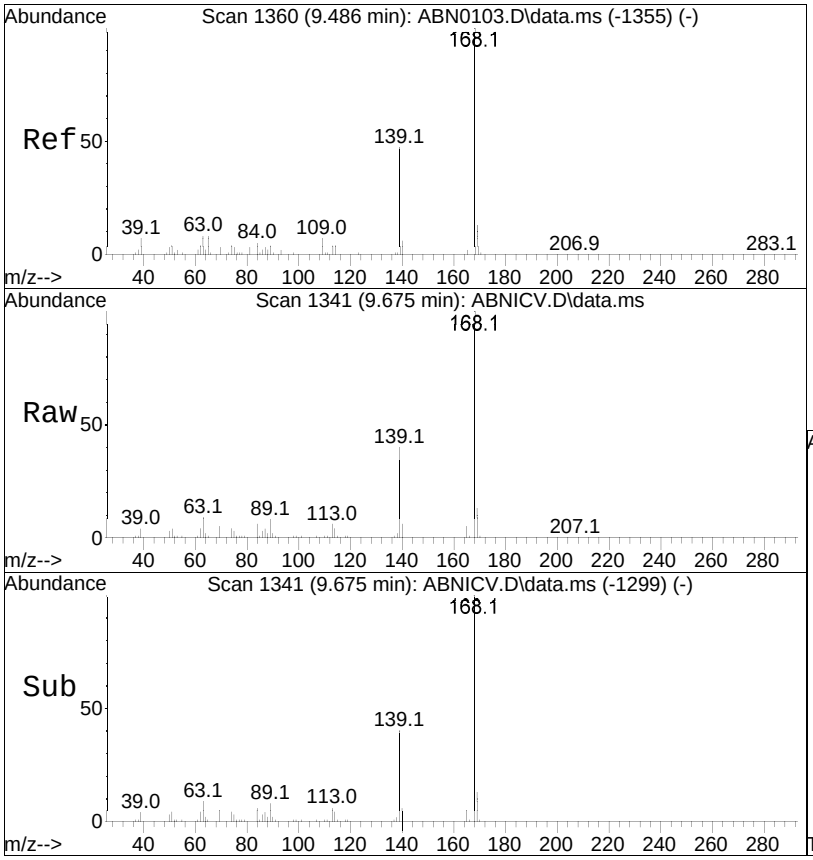


#65
2,4-Dinitrophenol
Concen: 4.12 ug/ml
RT: 9.551 min Scan# 1320
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 2 Sep 2023 8:07 pm

Tgt Ion:184 Resp: 12153

Ion	Ratio	Lower	Upper
184	100		
107	50.5	37.7	56.5
91	61.5	46.3	69.5

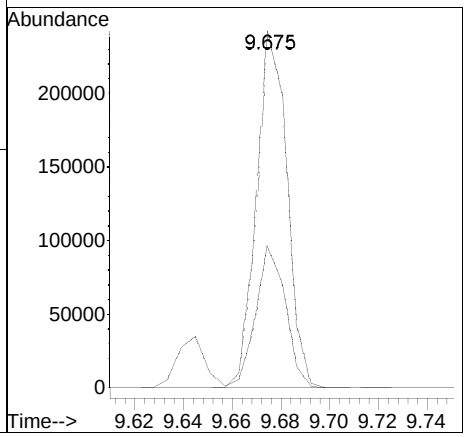


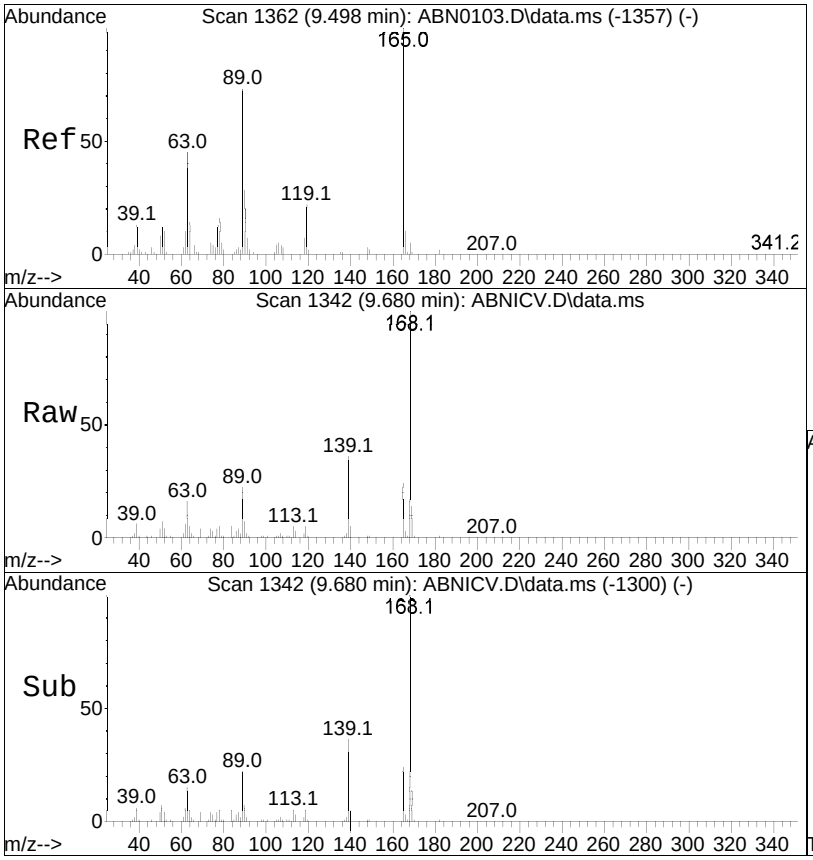


#66
Dibenzofuran
Concen: 4.91 ug/ml
RT: 9.675 min Scan# 1341
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 2 Sep 2023 8:07 pm

Tgt Ion:168 Resp: 207762

Ion	Ratio	Lower	Upper
168	100		
139	39.1	31.4	47.2

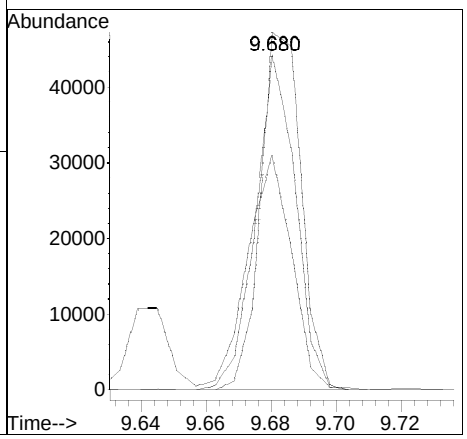


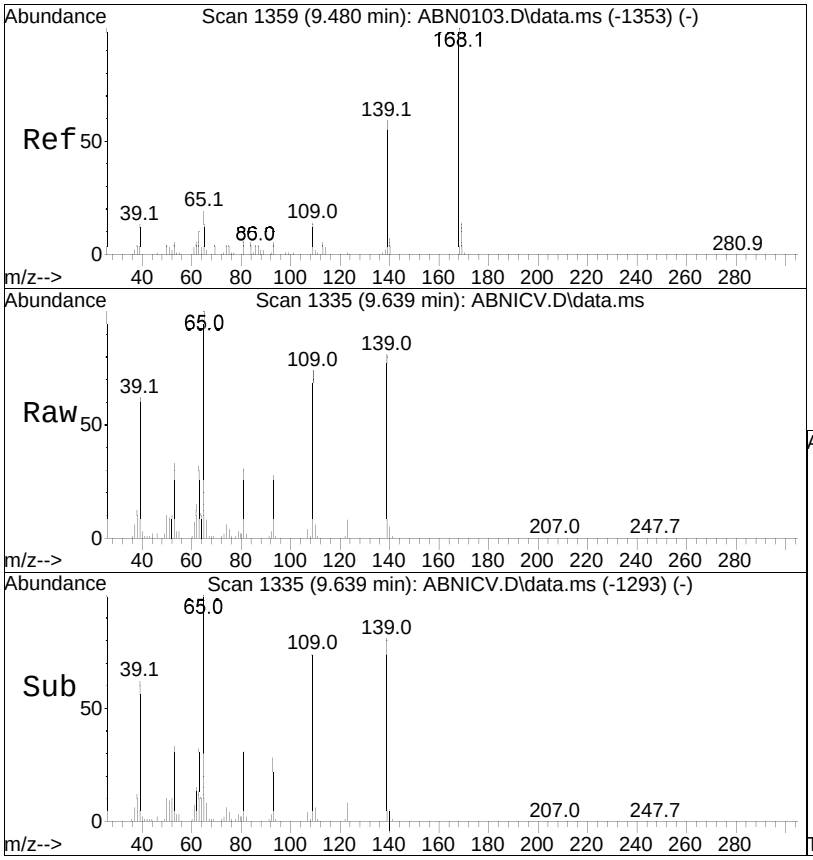


#67
2,4-Dinitrotoluene
Concen: 4.55 ug/ml
RT: 9.680 min Scan# 1342
Delta R.T. -0.001 min
Lab File: ABNICV.D
Acq: 2 Sep 2023 8:07 pm

Tgt Ion:165 Resp: 40776

Ion	Ratio	Lower	Upper
165	100		
89	92.1	72.0	108.0
63	71.9	52.7	79.1

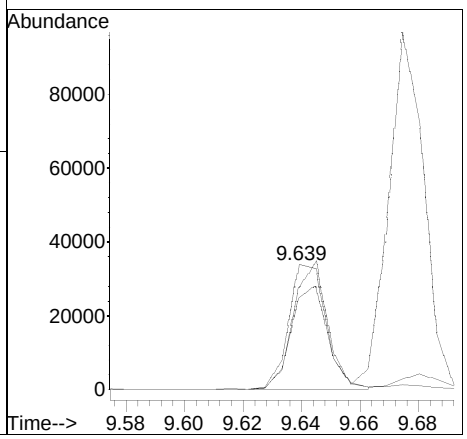


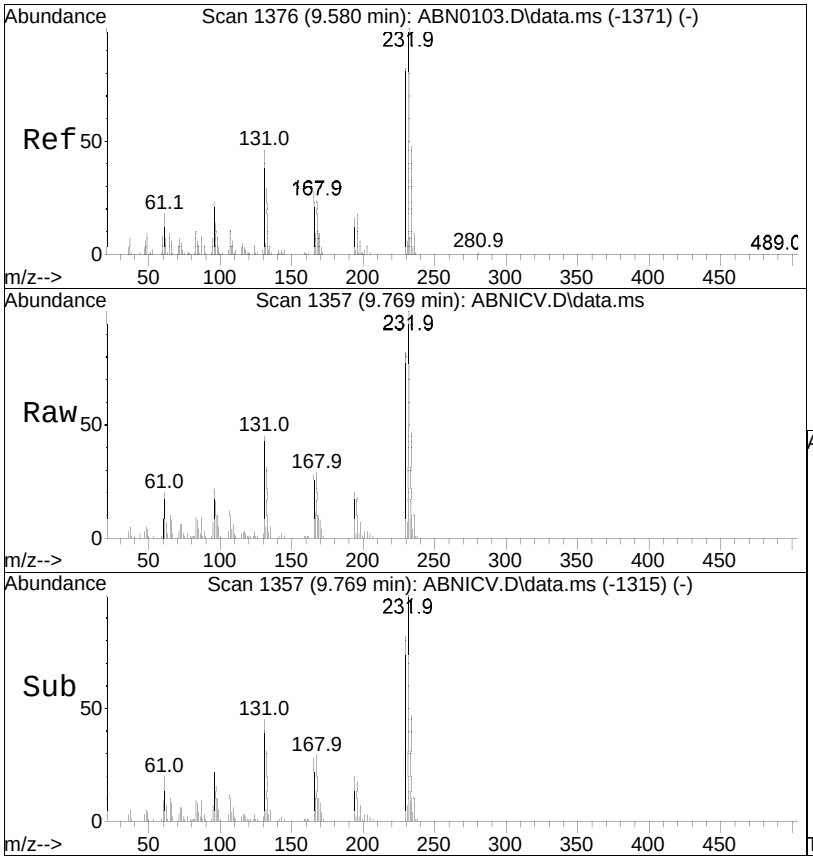


#68
4-Nitrophenol
Concen: 4.50 ug/ml
RT: 9.639 min Scan# 1335
Delta R.T. -0.006 min
Lab File: ABNICV.D
Acq: 2 Sep 2023 8:07 pm

Tgt Ion: 65 Resp: 30240

Ion	Ratio	Lower	Upper
65	100		
109	82.3	47.4	71.2#
139	92.7	76.6	115.0

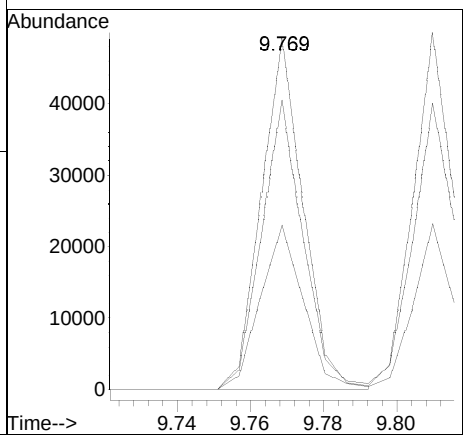


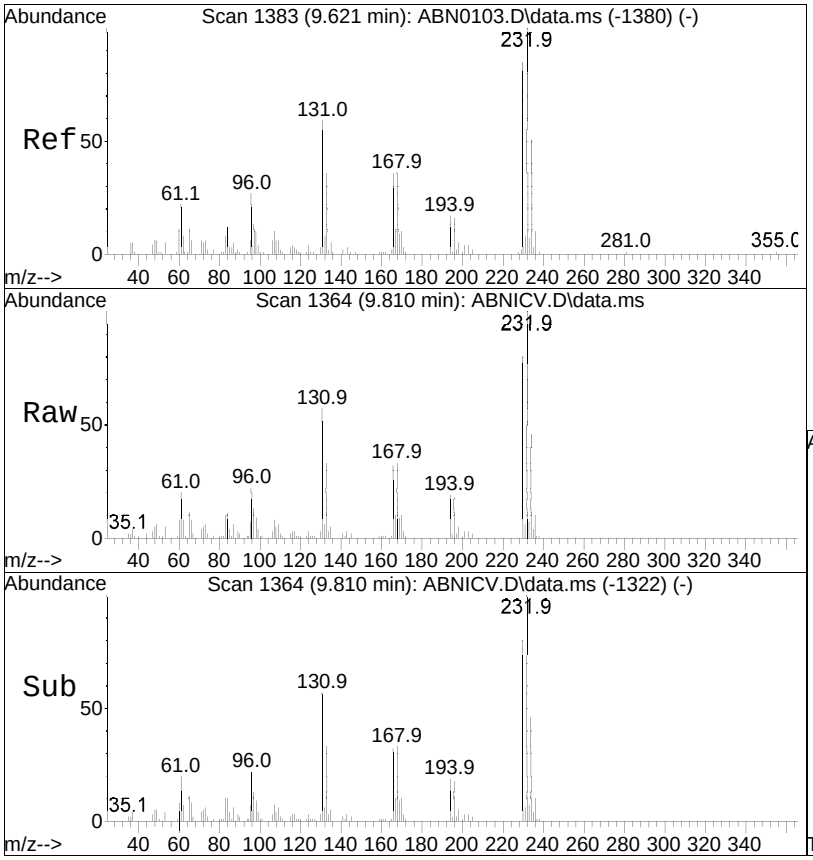


#69
2,3,5,6-Tetrachlorophenol
Concen: 4.80 ug/ml
RT: 9.769 min Scan# 1357
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 2 Sep 2023 8:07 pm

Tgt Ion:232 Resp: 39034

Ion	Ratio	Lower	Upper
232	100		
230	82.4	64.2	96.4
234	48.5	38.1	57.1

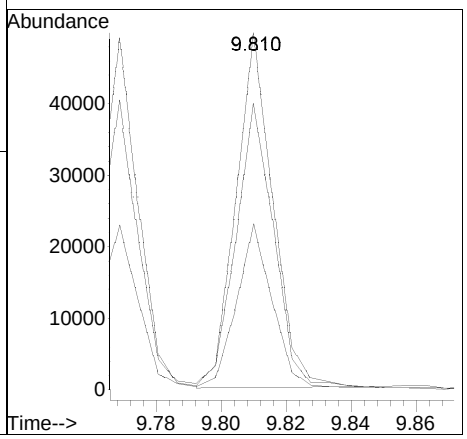


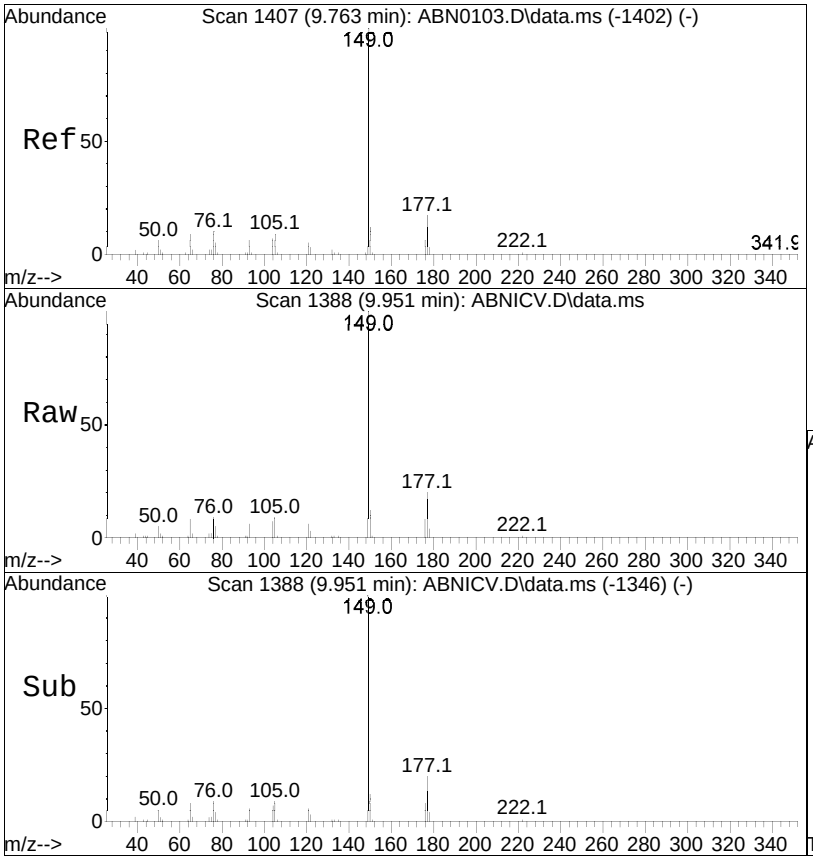


#70
2,3,4,6-Tetrachlorophenol
Concen: 4.67 ug/ml
RT: 9.810 min Scan# 1364
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 2 Sep 2023 8:07 pm

Tgt Ion:232 Resp: 39370

Ion	Ratio	Lower	Upper
232	100		
230	84.6	61.8	92.8
234	46.7	36.2	54.2

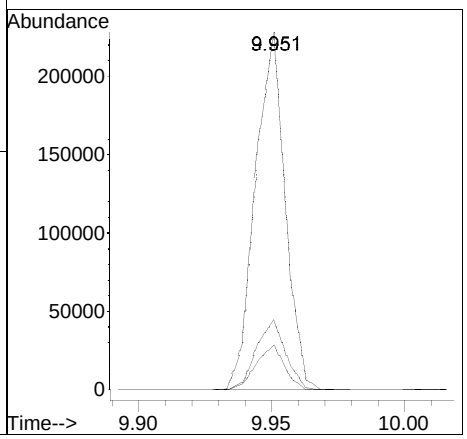


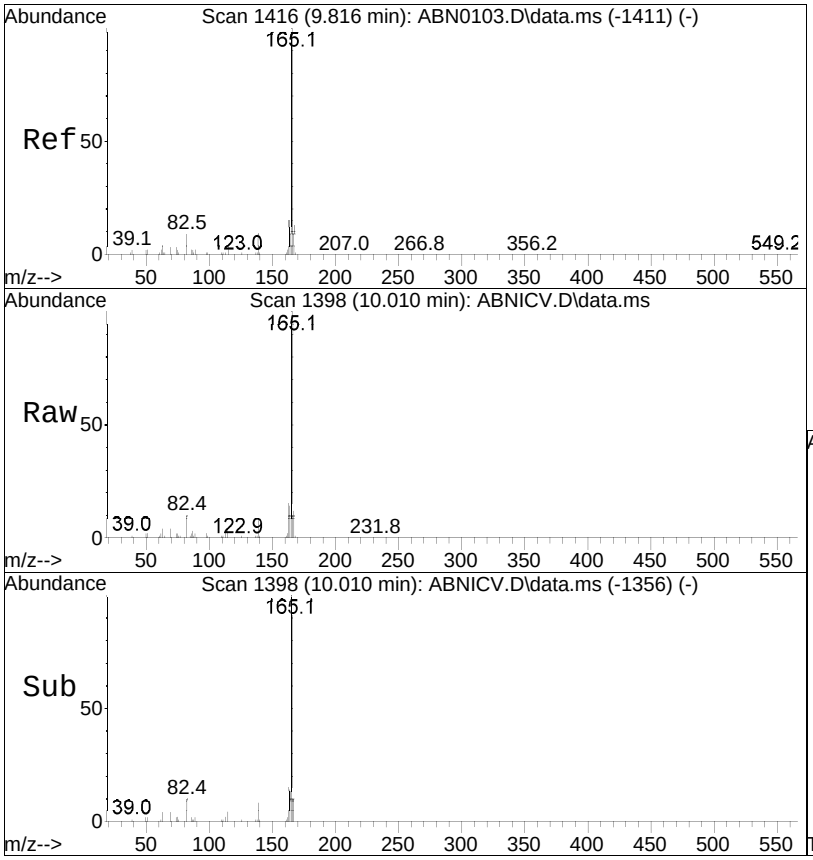


#71
Diethyl phthalate
Concen: 4.96 ug/ml
RT: 9.951 min Scan# 1388
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 2 Sep 2023 8:07 pm

Tgt Ion:149 Resp: 175591

Ion	Ratio	Lower	Upper
149	100		
177	19.6	16.1	24.1
150	12.2	9.4	14.2

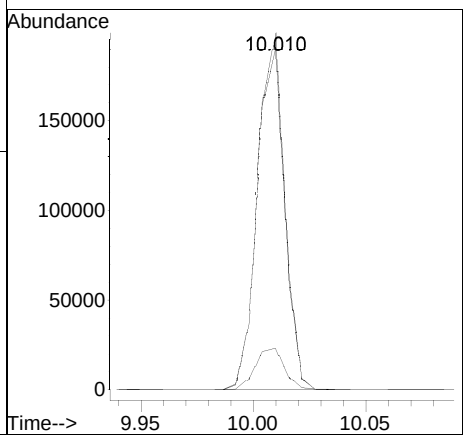


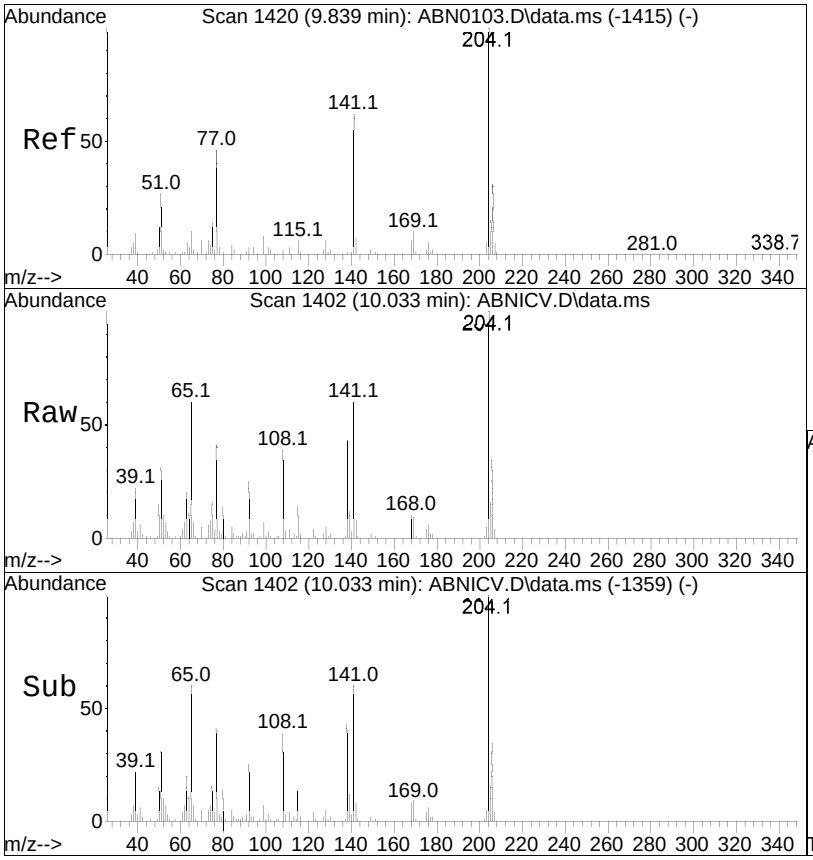


#72
Fluorene
Concen: 4.83 ug/ml
RT: 10.010 min Scan# 1398
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 2 Sep 2023 8:07 pm

Tgt Ion:166 Resp: 161349

Ion	Ratio	Lower	Upper
166	100		
165	103.1	76.2	114.2
167	13.2	10.6	15.8

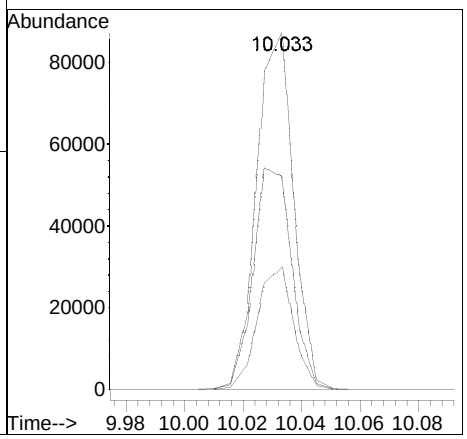


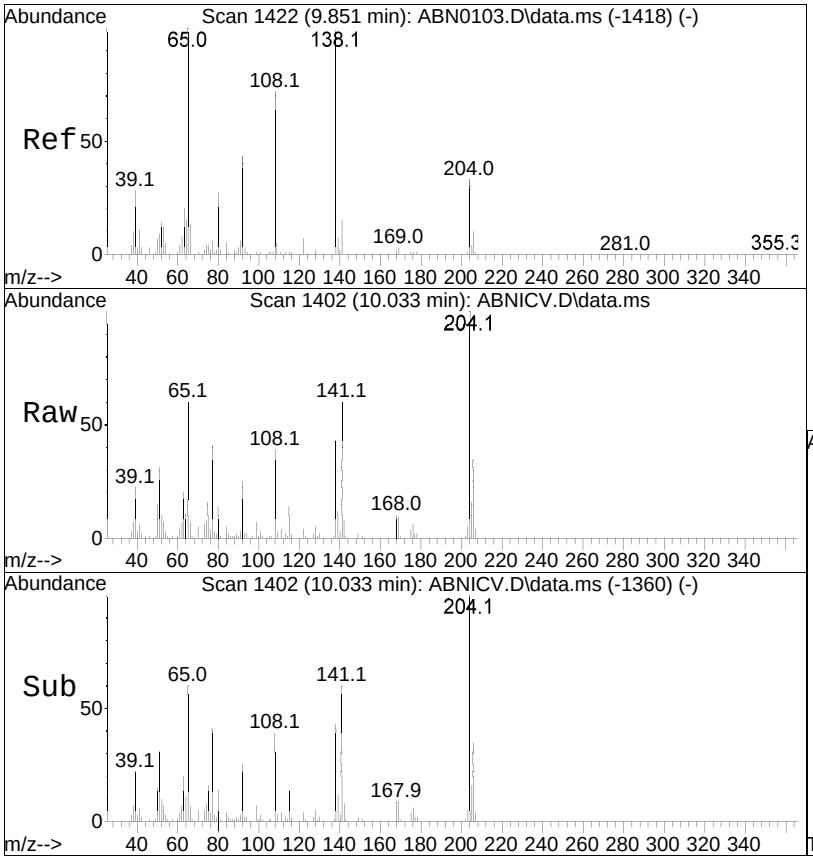


#73
4-Chlorophenyl phenyl ether
Concen: 4.79 ug/ml
RT: 10.033 min Scan# 1402
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 2 Sep 2023 8:07 pm

Tgt Ion:204 Resp: 76376

Ion	Ratio	Lower	Upper
204	100		
206	33.8	25.8	38.6
141	64.7	53.6	80.4

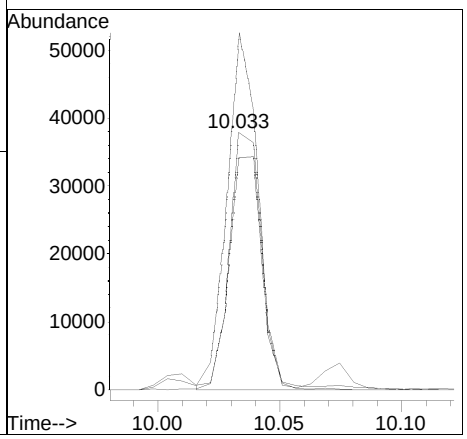


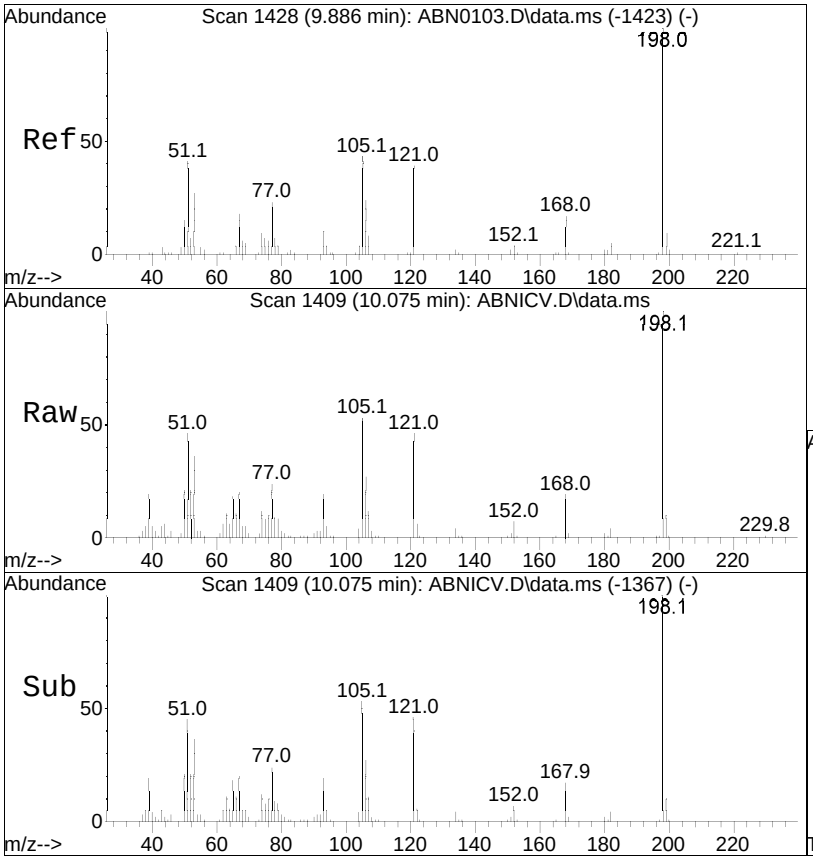


#74
4-Nitroaniline
Concen: 4.77 ug/ml
RT: 10.033 min Scan# 1402
Delta R.T. -0.006 min
Lab File: ABNICV.D
Acq: 2 Sep 2023 8:07 pm

Tgt Ion:138 Resp: 34455

Ion	Ratio	Lower	Upper
138	100		
108	93.1	52.1	78.1#
65	137.0	115.0	172.6

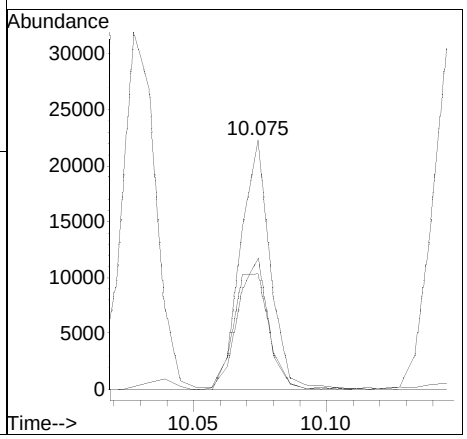


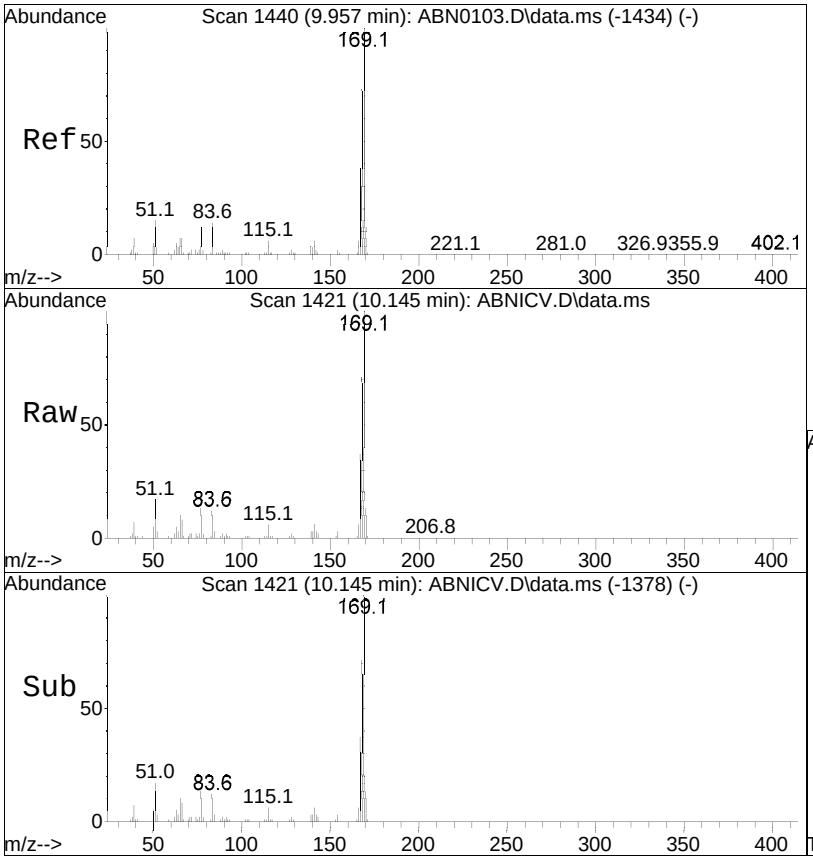


#75
4,6-Dinitro-o-cresol
Concen: 4.44 ug/ml
RT: 10.075 min Scan# 1409
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 2 Sep 2023 8:07 pm

Tgt Ion:198 Resp: 17576

Ion	Ratio	Lower	Upper
198	100		
51	57.2	76.0	114.0#
105	54.0	45.6	68.4

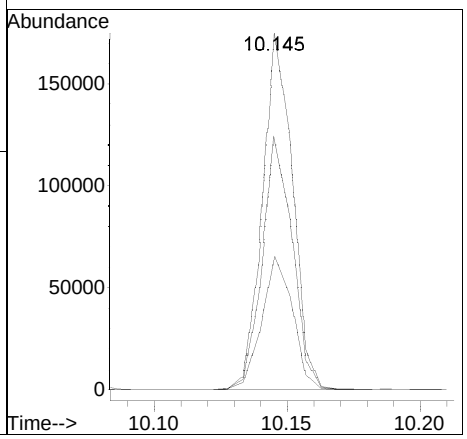


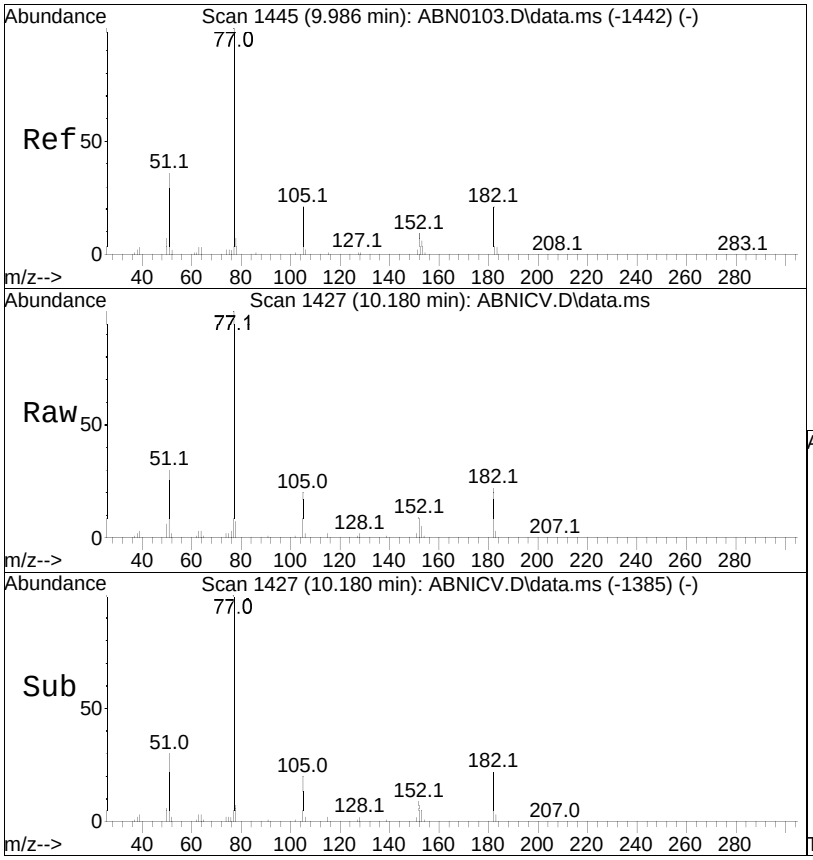


#76
NDPA/DPA
Concen: 4.88 ug/ml
RT: 10.145 min Scan# 1421
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 2 Sep 2023 8:07 pm

Tgt Ion:169 Resp: 137047

Ion	Ratio	Lower	Upper
169	100		
168	71.0	54.0	81.0
167	38.6	28.6	42.8

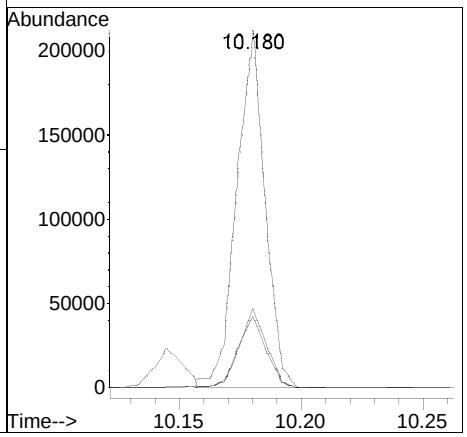


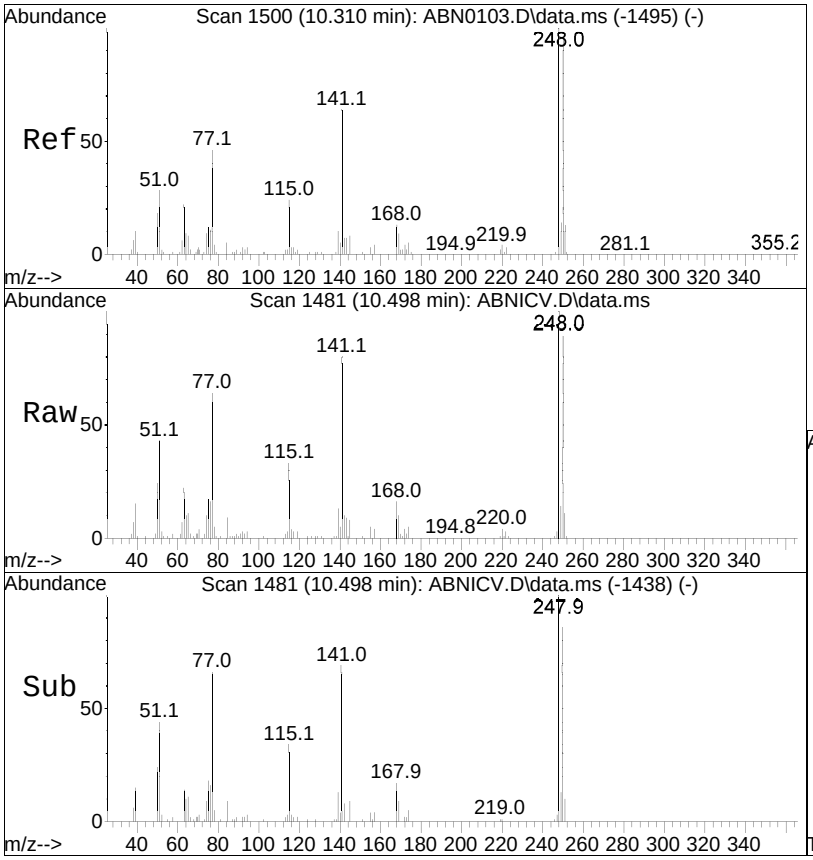


#77
Azobenzene
Concen: 5.10 ug/ml
RT: 10.180 min Scan# 1427
Delta R.T. -0.001 min
Lab File: ABNICV.D
Acq: 2 Sep 2023 8:07 pm

Tgt Ion: 77 Resp: 168401

Ion	Ratio	Lower	Upper
77	100		
182	22.0	17.4	26.2
105	20.9	15.4	23.2

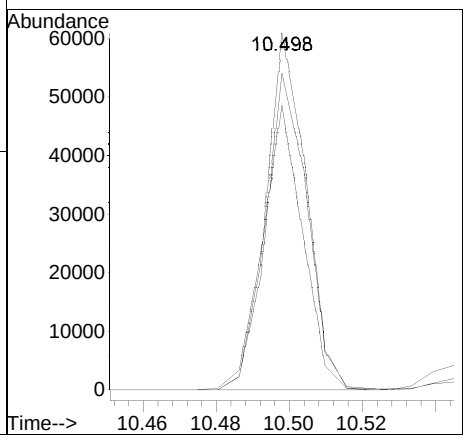


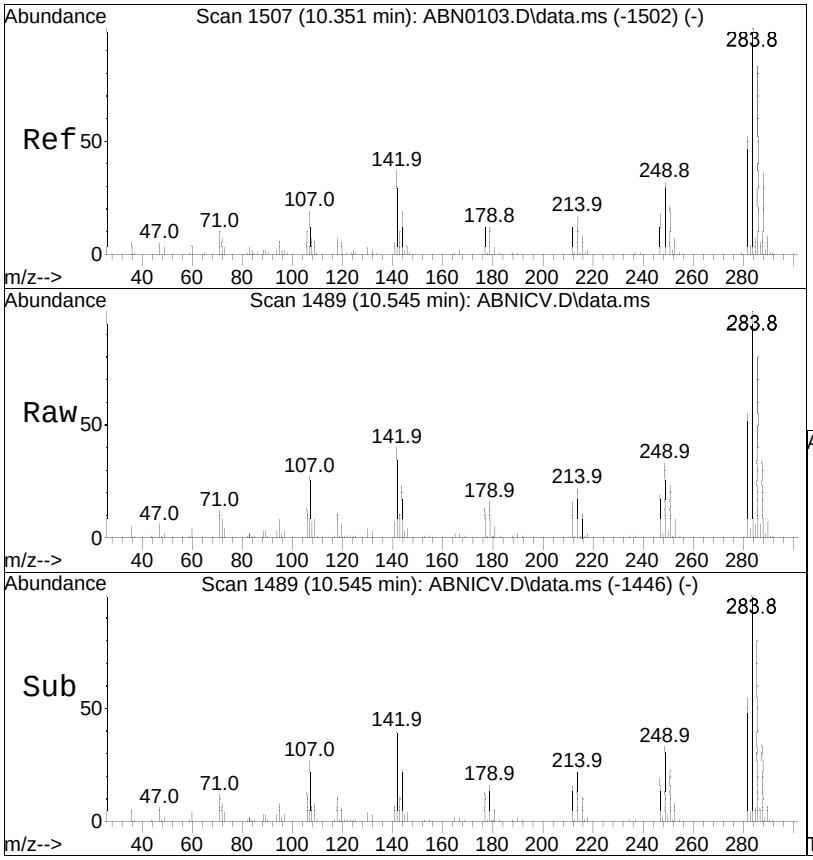


#79
4-Bromophenyl phenyl ether
Concen: 5.02 ug/ml
RT: 10.498 min Scan# 1481
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 2 Sep 2023 8:07 pm

Tgt Ion:248 Resp: 46603

Ion	Ratio	Lower	Upper
248	100		
141	79.7	76.6	114.8
250	91.2	77.3	115.9

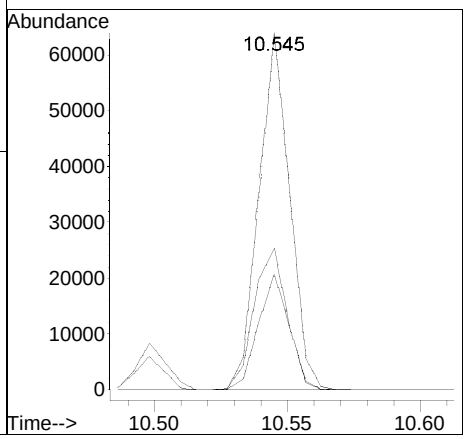


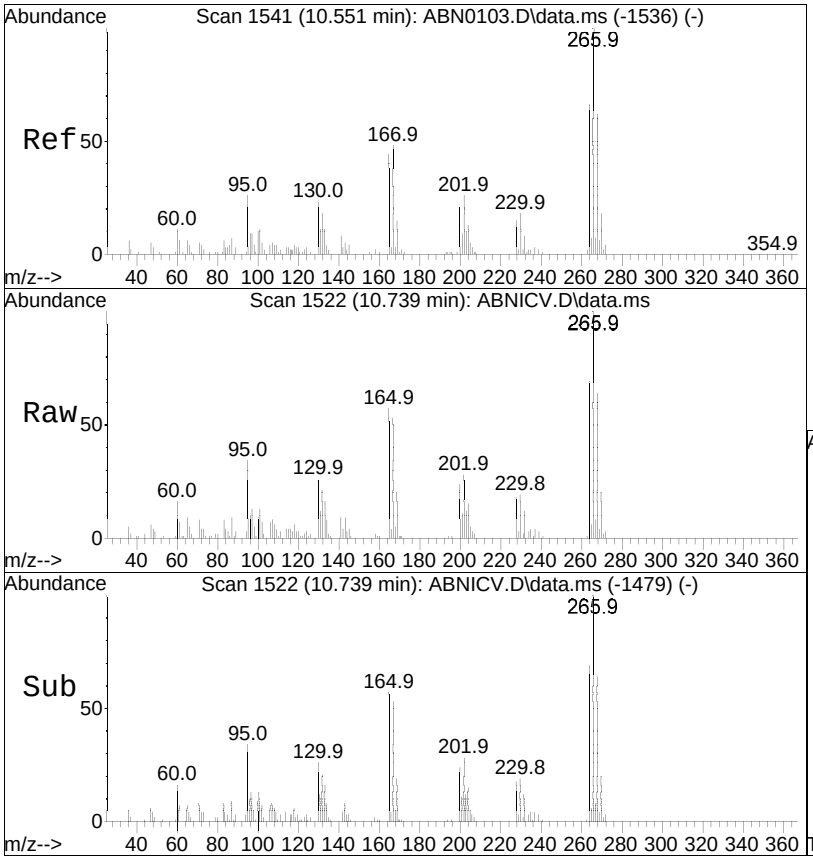


#80
Hexachlorobenzene
Concen: 4.74 ug/ml
RT: 10.545 min Scan# 1489
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 2 Sep 2023 8:07 pm

Tgt Ion:284 Resp: 51213

Ion	Ratio	Lower	Upper
284	100		
142	42.9	41.9	62.9
249	32.7	24.1	36.1

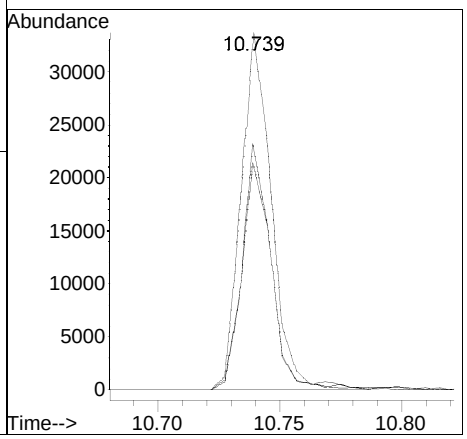


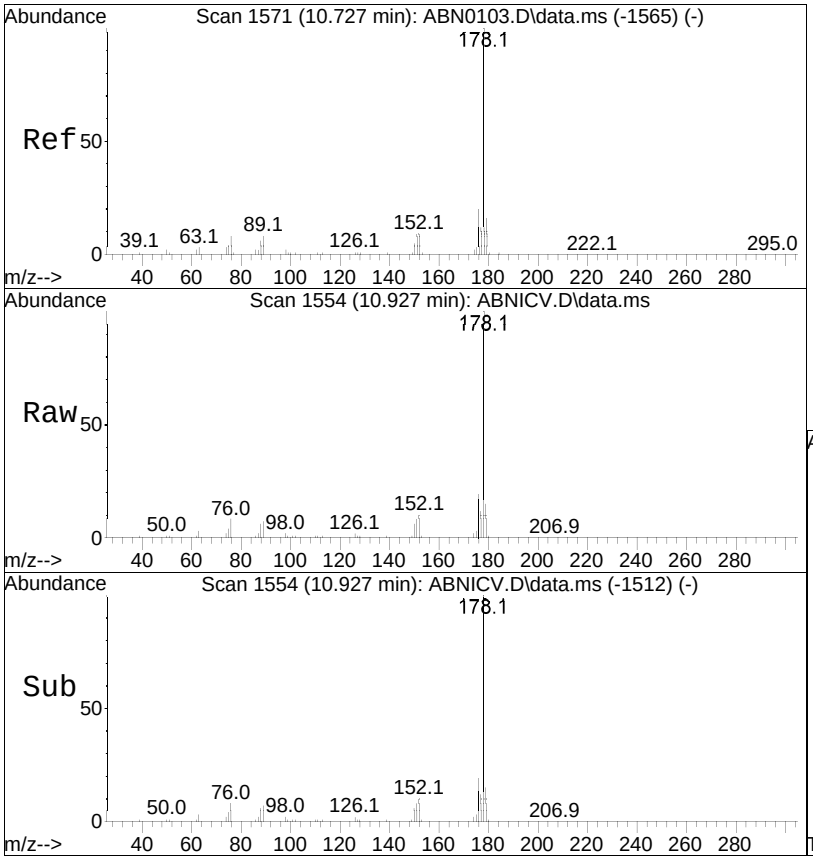


#81
Pentachlorophenol
Concen: 4.62 ug/ml
RT: 10.739 min Scan# 1522
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 2 Sep 2023 8:07 pm

Tgt Ion:266 Resp: 29323

Ion	Ratio	Lower	Upper
266	100		
264	64.6	49.7	74.5
268	62.9	50.5	75.7

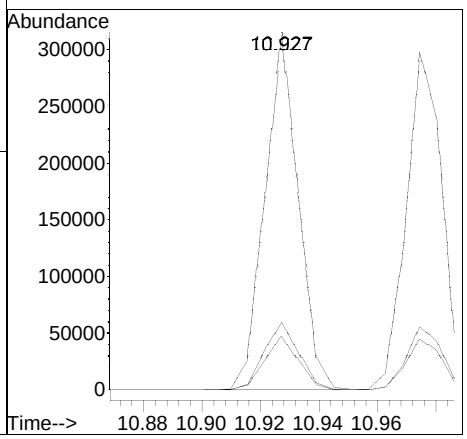


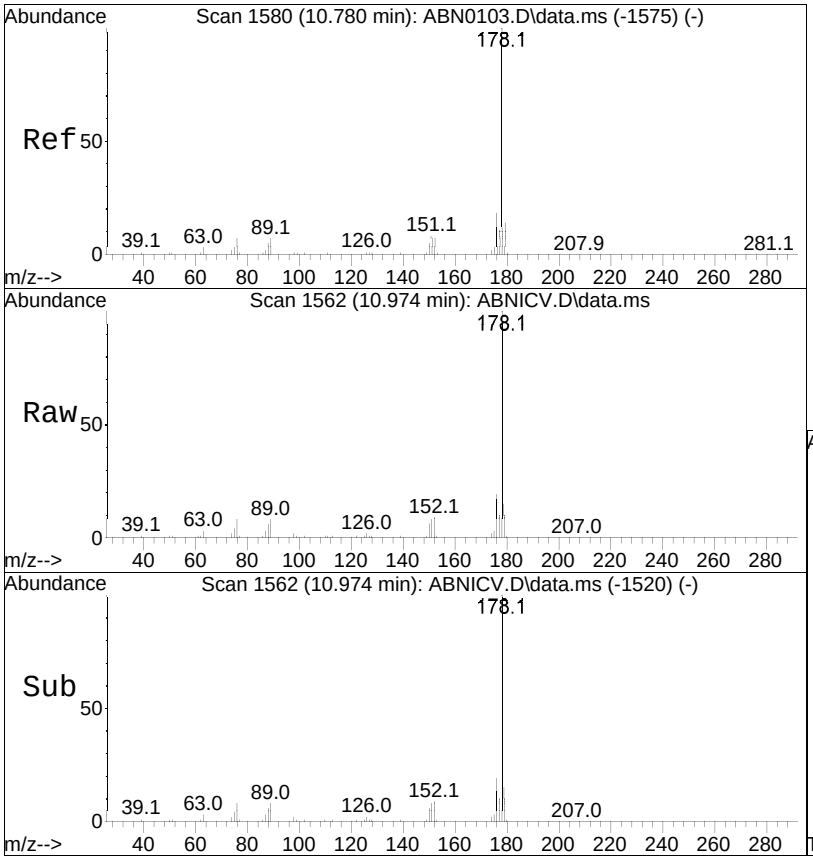


#88
Phenanthrene
Concen: 4.65 ug/ml
RT: 10.927 min Scan# 1554
Delta R.T. -0.001 min
Lab File: ABNICV.D
Acq: 2 Sep 2023 8:07 pm

Tgt Ion:178 Resp: 249661

Ion	Ratio	Lower	Upper
178	100		
179	15.3	12.2	18.2
176	19.5	15.4	23.2

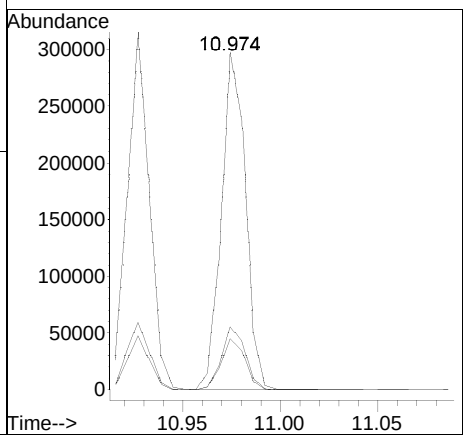


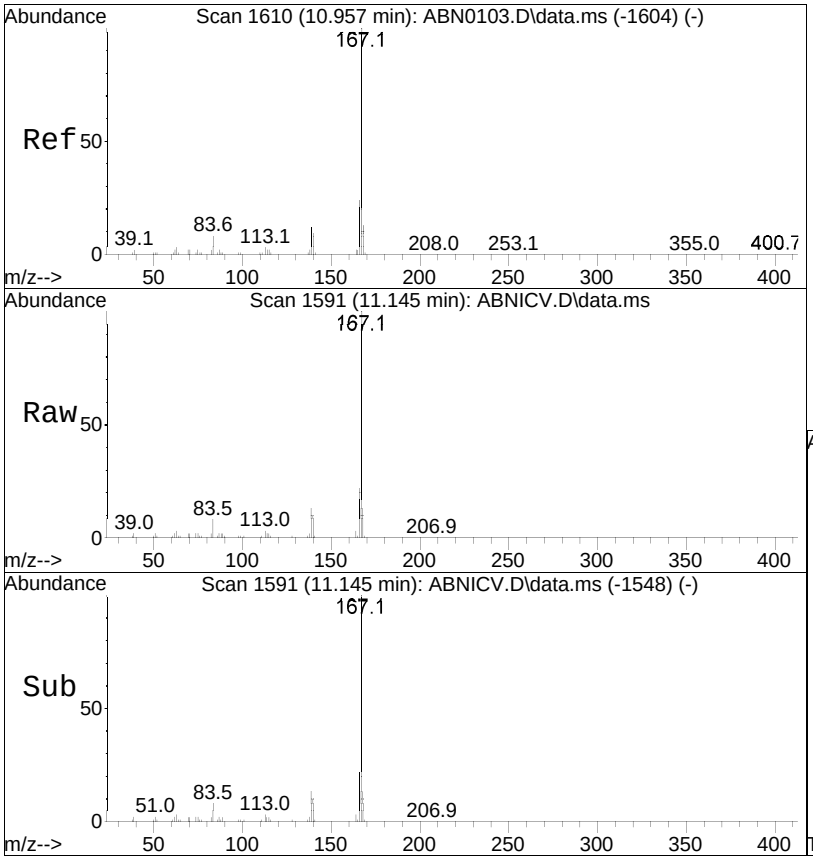


#89
Anthracene
Concen: 4.77 ug/ml
RT: 10.974 min Scan# 1562
Delta R.T. -0.001 min
Lab File: ABNICV.D
Acq: 2 Sep 2023 8:07 pm

Tgt Ion:178 Resp: 255236

Ion	Ratio	Lower	Upper
178	100		
179	15.2	12.0	18.0
176	18.6	14.6	22.0

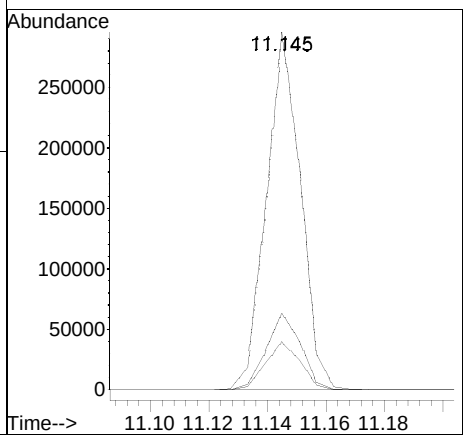


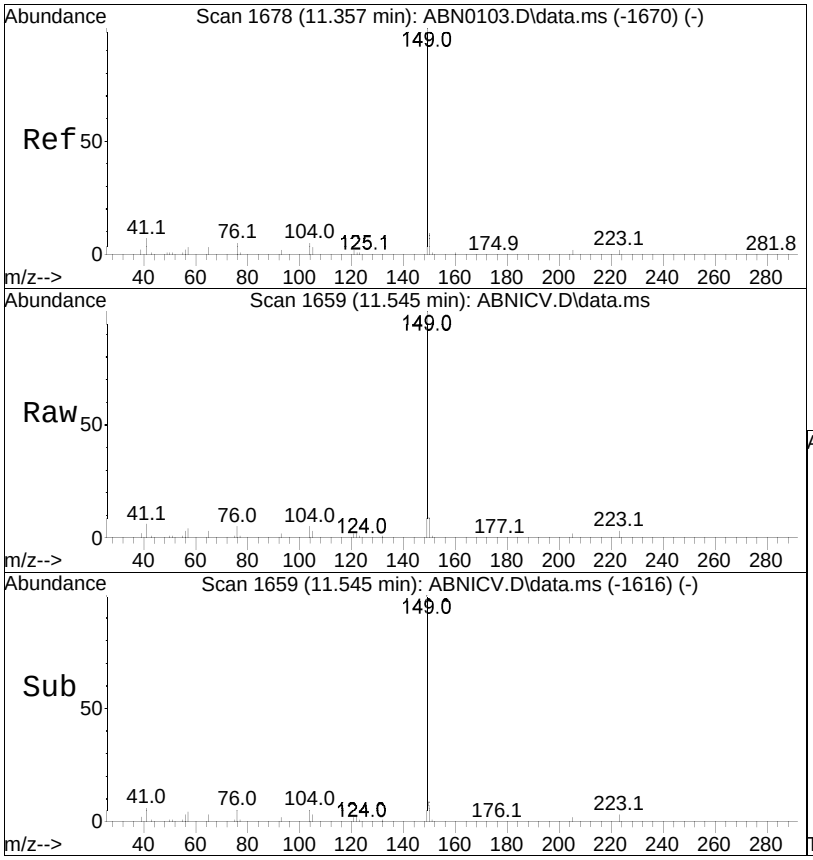


#90
Carbazole
Concen: 4.84 ug/ml
RT: 11.145 min Scan# 1591
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 2 Sep 2023 8:07 pm

Tgt Ion:167 Resp: 236335

Ion	Ratio	Lower	Upper
167	100		
168	13.8	10.6	15.8
166	21.8	17.4	26.0

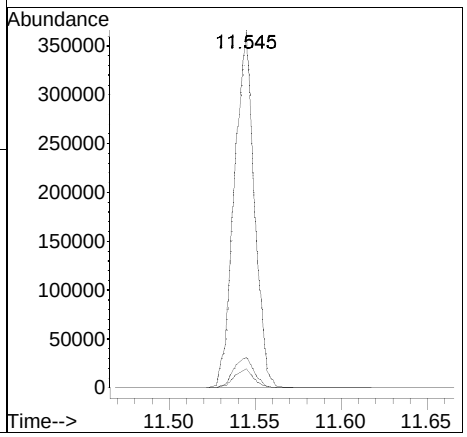


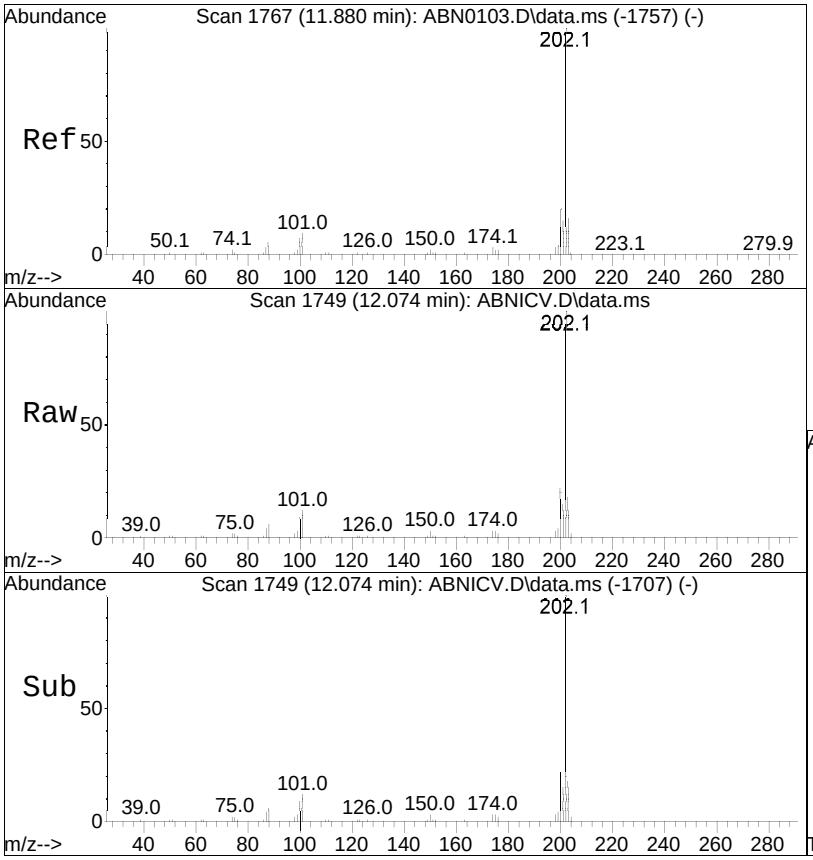


#91
Di-n-butylphthalate
Concen: 4.65 ug/ml
RT: 11.545 min Scan# 1659
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 2 Sep 2023 8:07 pm

Tgt Ion:149 Resp: 290986

Ion	Ratio	Lower	Upper
149	100		
150	9.0	7.0	10.6
104	5.4	4.5	6.7

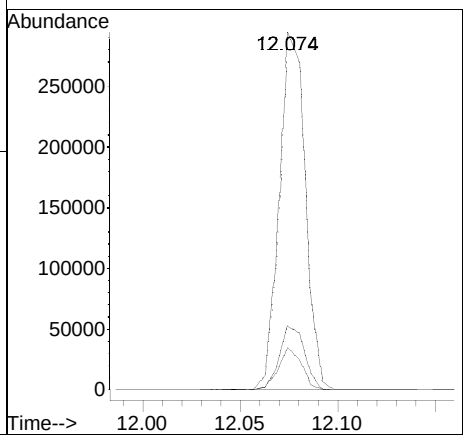


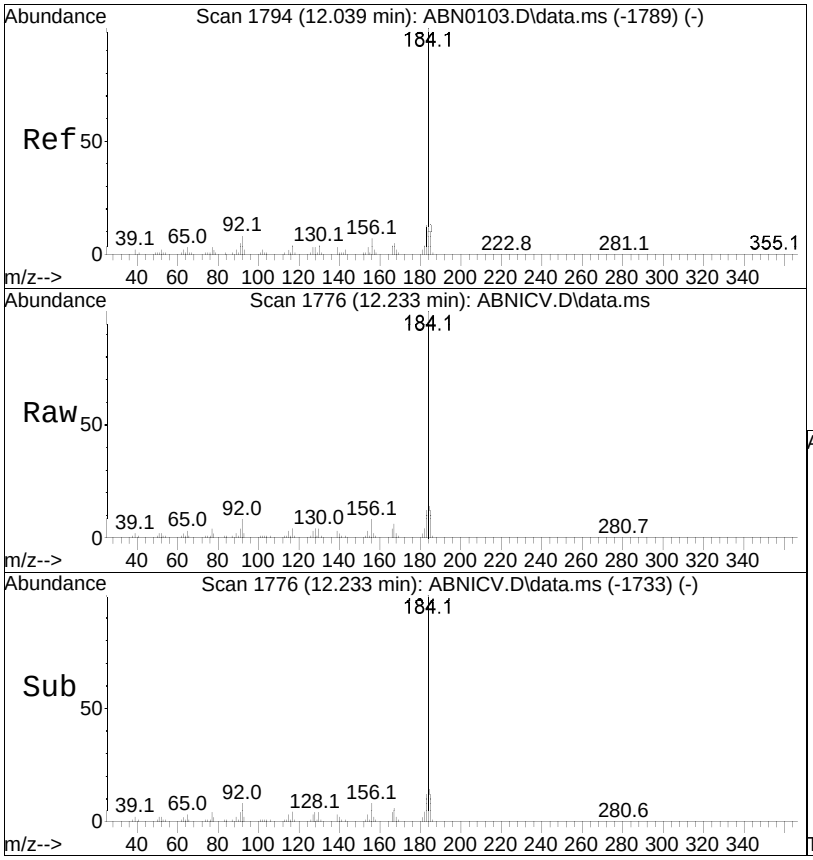


#92
Fluoranthene
Concen: 4.70 ug/ml
RT: 12.074 min Scan# 1749
Delta R.T. -0.006 min
Lab File: ABNICV.D
Acq: 2 Sep 2023 8:07 pm

Tgt Ion:202 Resp: 270091

Ion	Ratio	Lower	Upper
202	100		
101	10.8	13.5	20.3#
203	17.6	13.6	20.4

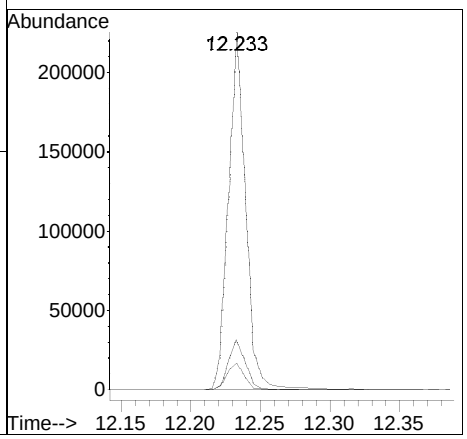


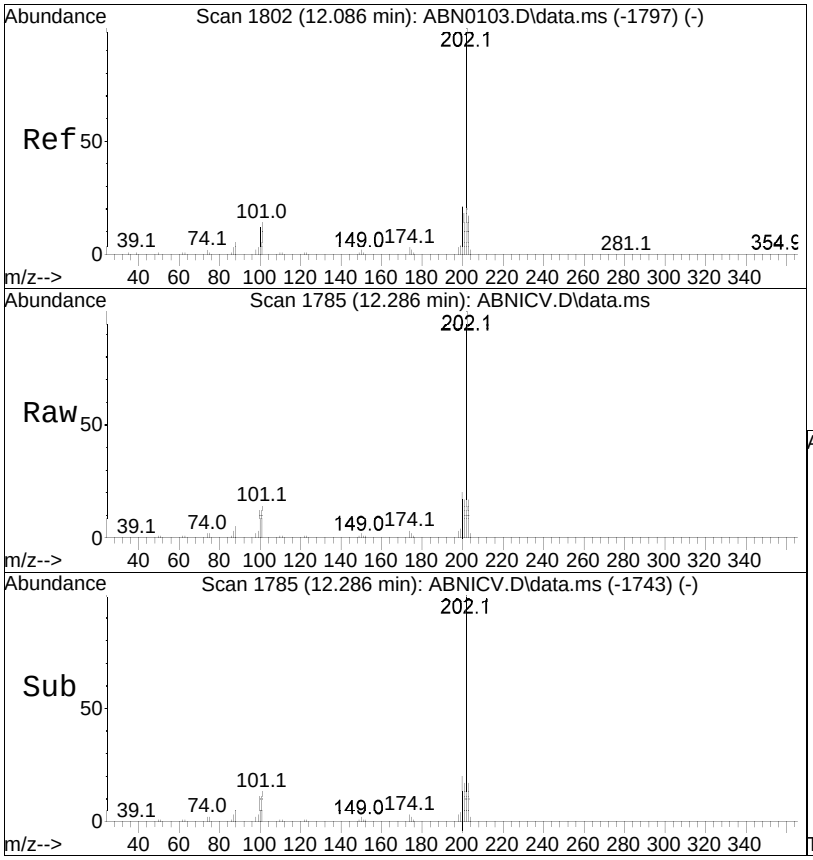


#93
Benzidine
Concen: 5.03 ug/ml
RT: 12.233 min Scan# 1776
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 2 Sep 2023 8:07 pm

Tgt Ion:184 Resp: 190778

Ion	Ratio	Lower	Upper
184	100		
92	7.8	9.1	13.7#
185	14.4	11.1	16.7

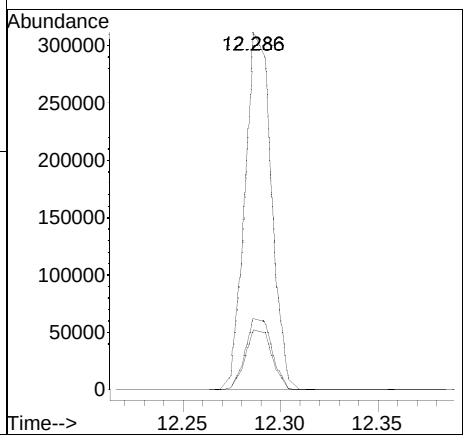


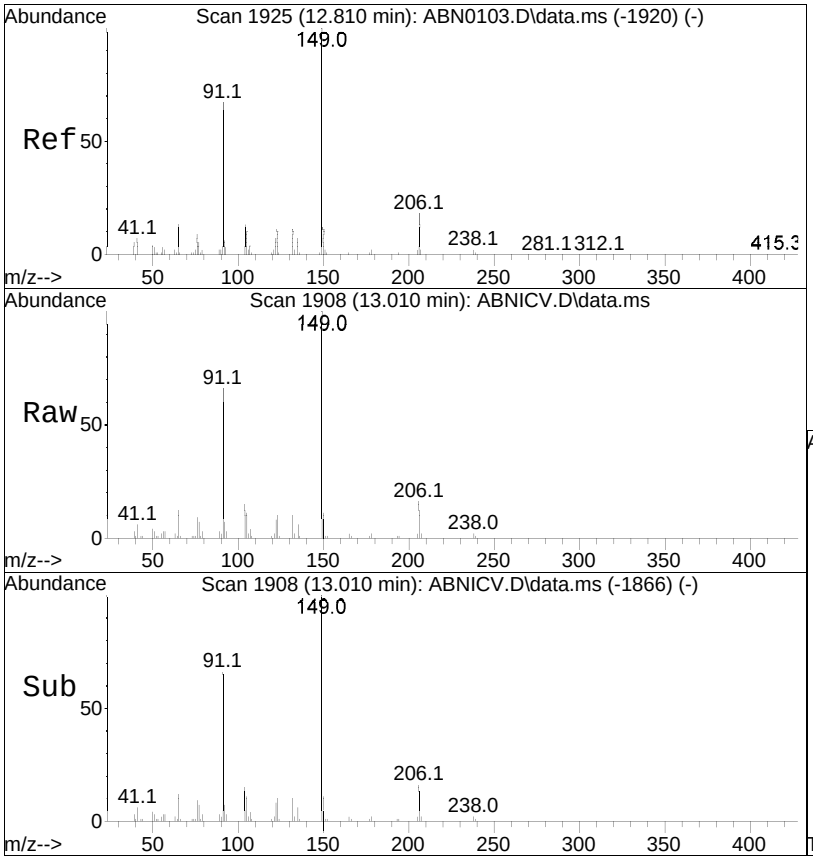


#94
Pyrene
Concen: 4.81 ug/ml
RT: 12.286 min Scan# 1785
Delta R.T. -0.006 min
Lab File: ABNICV.D
Acq: 2 Sep 2023 8:07 pm

Tgt Ion:202 Resp: 292413

Ion	Ratio	Lower	Upper
202	100		
200	20.2	16.7	25.1
203	17.1	14.2	21.4

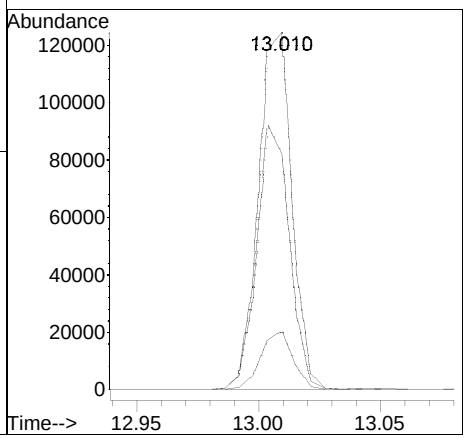


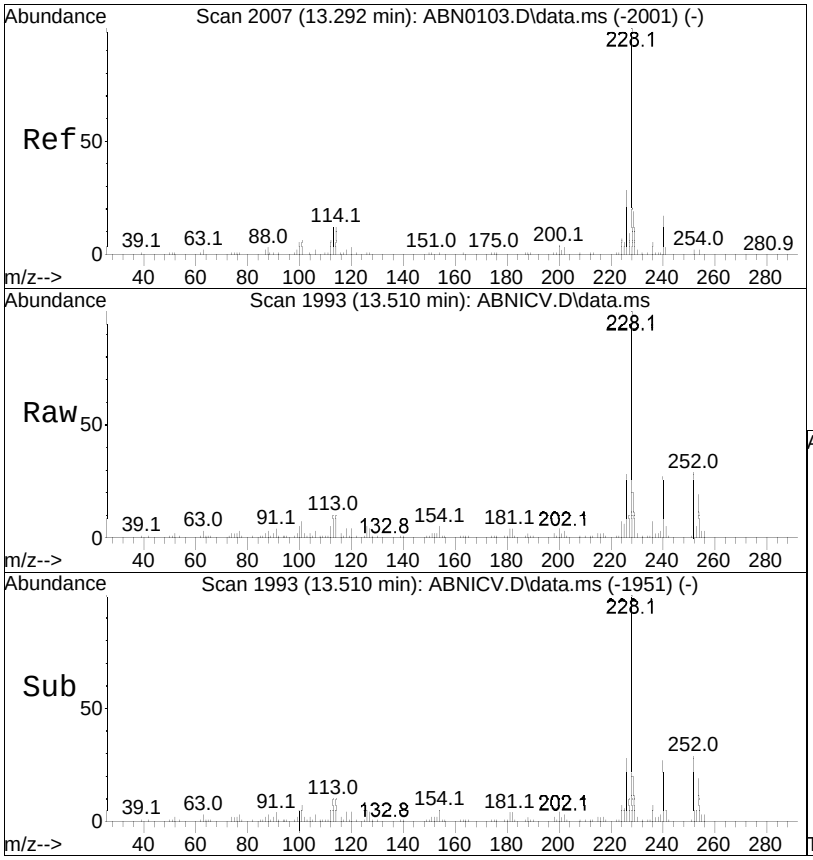


#96
Butyl benzyl phthalate
Concen: 4.40 ug/ml
RT: 13.010 min Scan# 1908
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 2 Sep 2023 8:07 pm

Tgt Ion:149 Resp: 117354

Ion	Ratio	Lower	Upper
149	100		
91	72.2	63.3	94.9
206	15.8	13.9	20.9

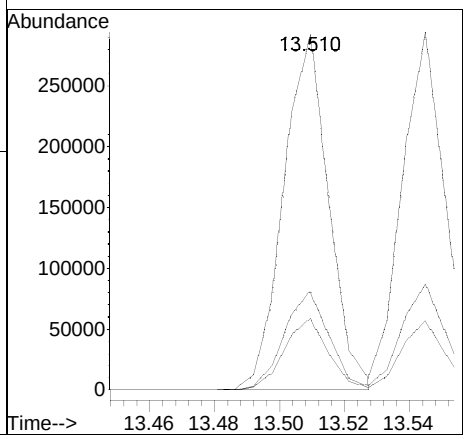


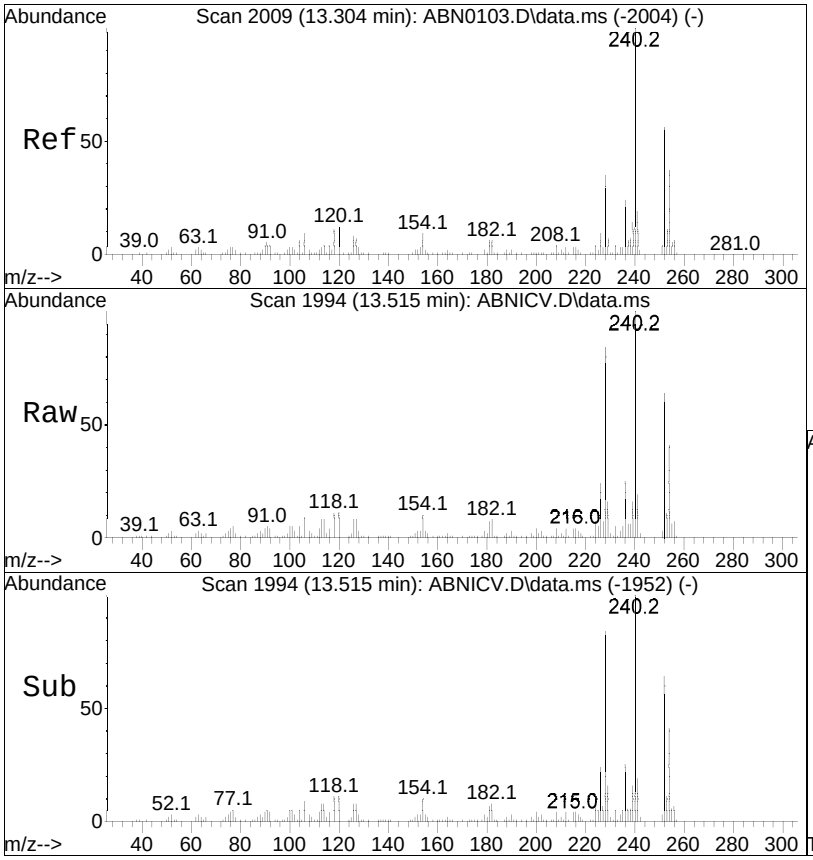


#104
Benzo(a)anthracene
Concen: 4.76 ug/ml
RT: 13.510 min Scan# 1993
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 2 Sep 2023 8:07 pm

Tgt Ion:228 Resp: 282690

Ion	Ratio	Lower	Upper
228	100		
226	27.7	22.2	33.4
229	19.8	15.6	23.4

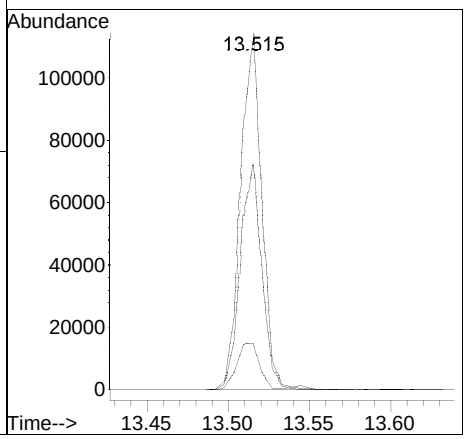


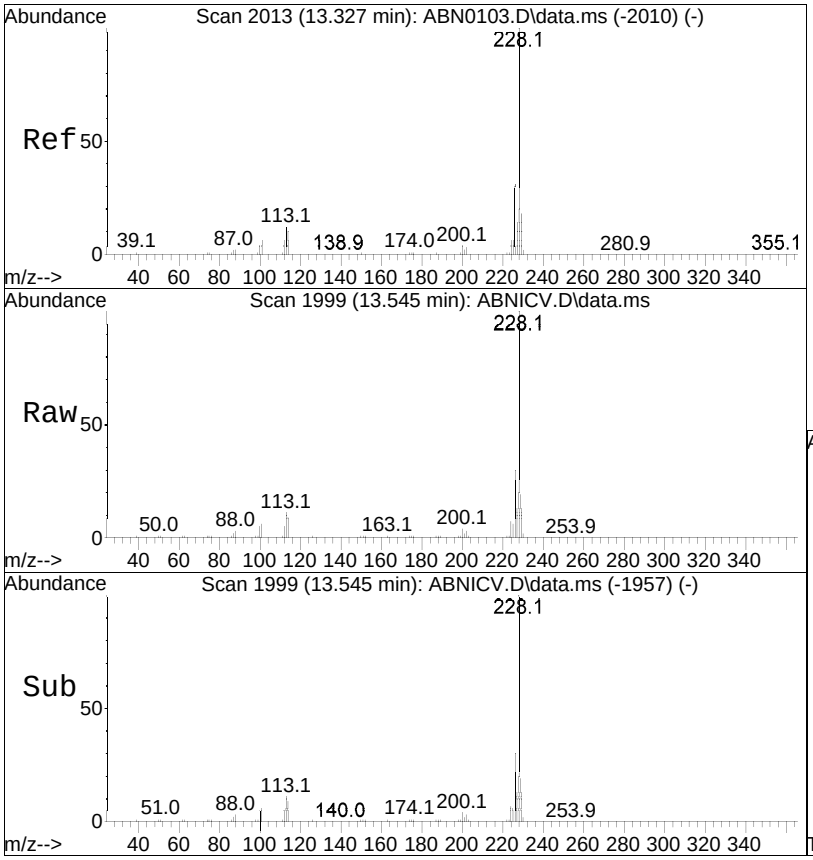


#105
3,3'-Dichlorobenzidine
Concen: 4.92 ug/ml
RT: 13.515 min Scan# 1994
Delta R.T. -0.001 min
Lab File: ABNICV.D
Acq: 2 Sep 2023 8:07 pm

Tgt Ion:252 Resp: 103983

Ion	Ratio	Lower	Upper
252	100		
126	14.4	14.5	21.7#
254	64.1	51.2	76.8

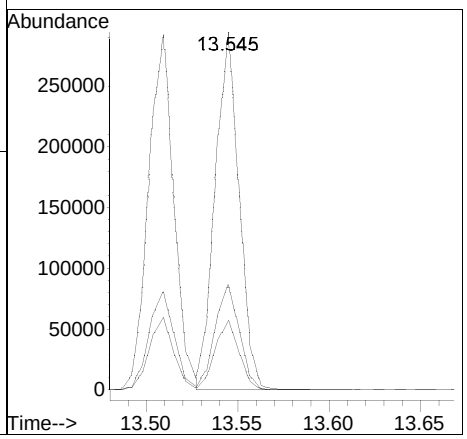


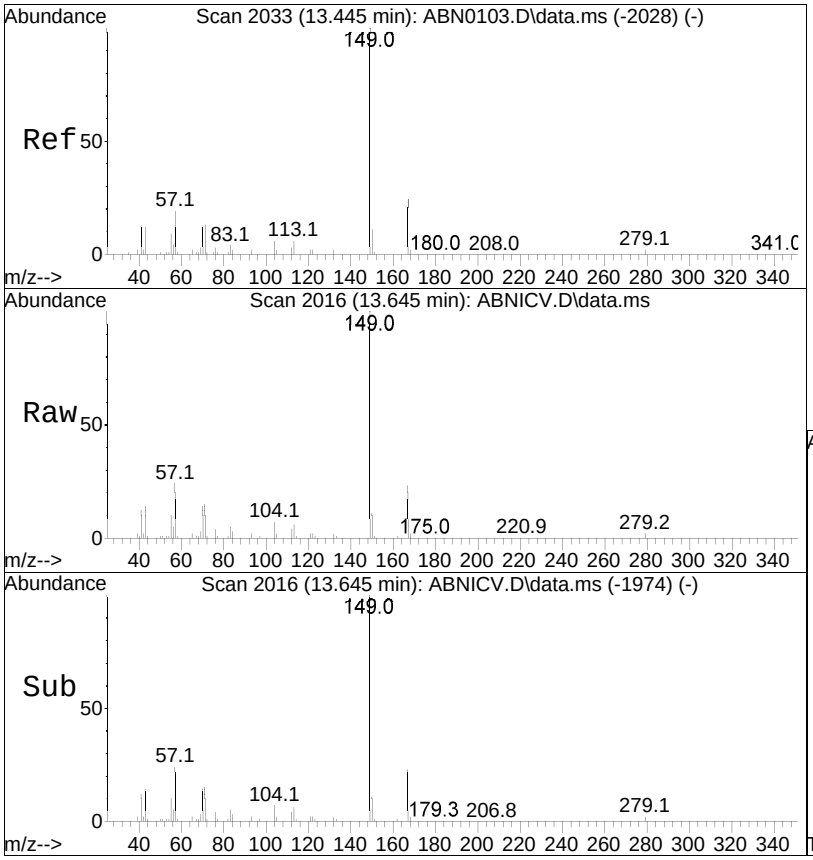


#106
Chrysene
Concen: 4.87 ug/ml
RT: 13.545 min Scan# 1999
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 2 Sep 2023 8:07 pm

Tgt Ion:228 Resp: 268550

Ion	Ratio	Lower	Upper
228	100		
226	29.9	24.0	36.0
229	19.4	15.8	23.8

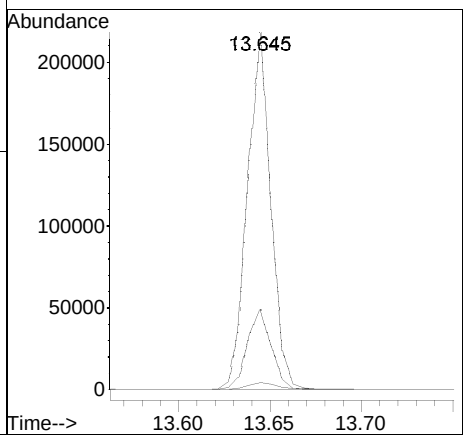


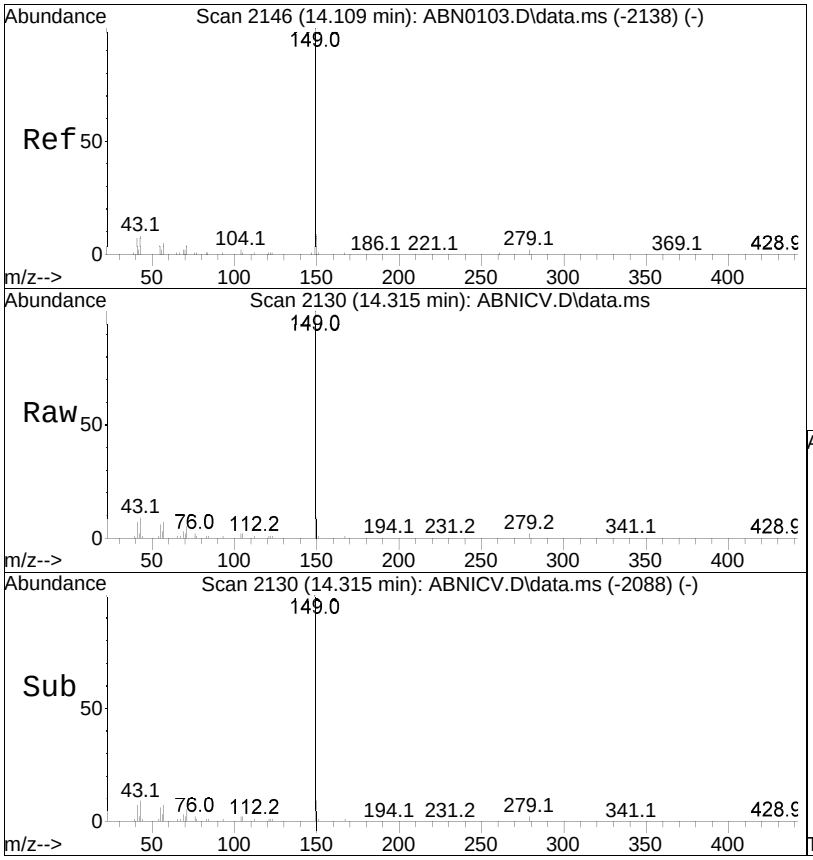


#107
Bis(2-ethylhexyl)phthalate
Concen: 4.81 ug/ml
RT: 13.645 min Scan# 2016
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 2 Sep 2023 8:07 pm

Tgt Ion:149 Resp: 191400

Ion	Ratio	Lower	Upper
149	100		
167	23.1	22.1	33.1
279	2.3	3.0	4.4#

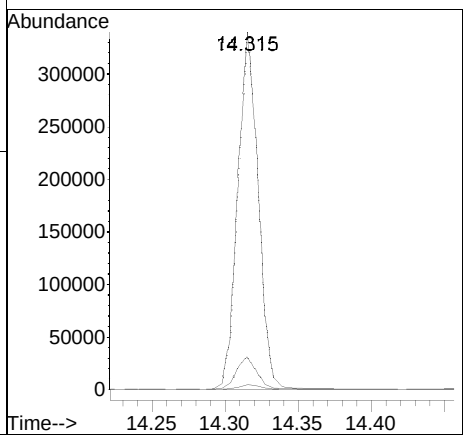


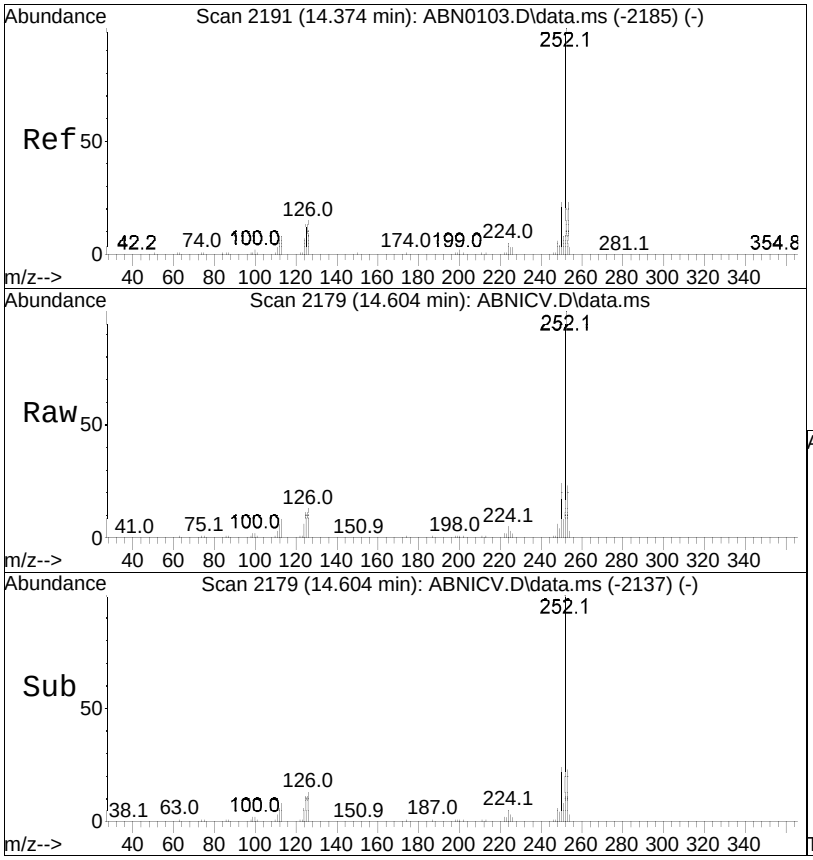


#108
Di-n-octylphthalate
Concen: 4.84 ug/ml
RT: 14.315 min Scan# 2130
Delta R.T. -0.001 min
Lab File: ABNICV.D
Acq: 2 Sep 2023 8:07 pm

Tgt Ion:149 Resp: 325055

Ion	Ratio	Lower	Upper
149	100		
43	9.5	18.8	28.2#
167	1.3	1.3	1.9#

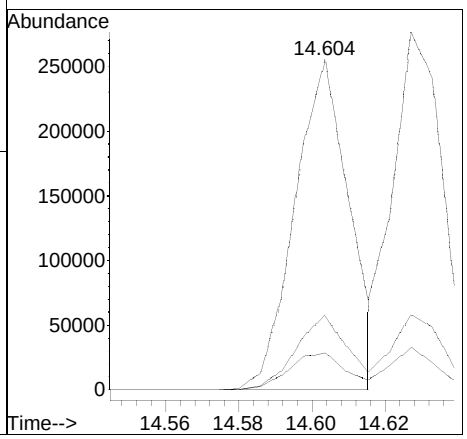


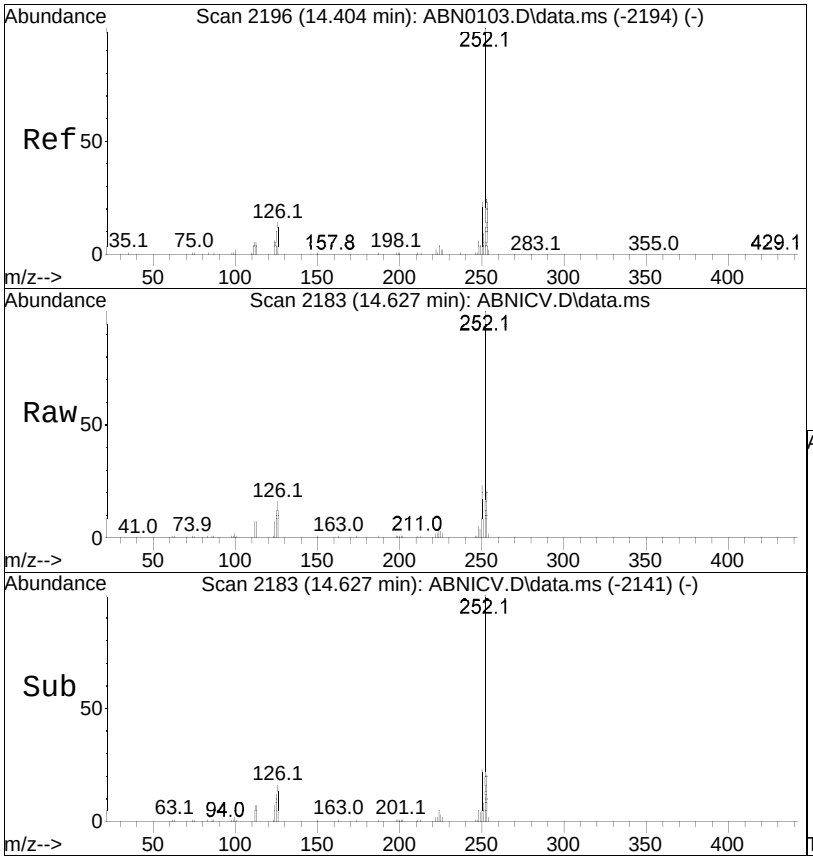


#109
Benzo(b)fluoranthene
Concen: 4.70 ug/ml
RT: 14.604 min Scan# 2179
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 2 Sep 2023 8:07 pm

Tgt Ion:252 Resp: 267047

Ion	Ratio	Lower	Upper
252	100		
125	12.0	13.3	19.9#
253	21.8	17.1	25.7

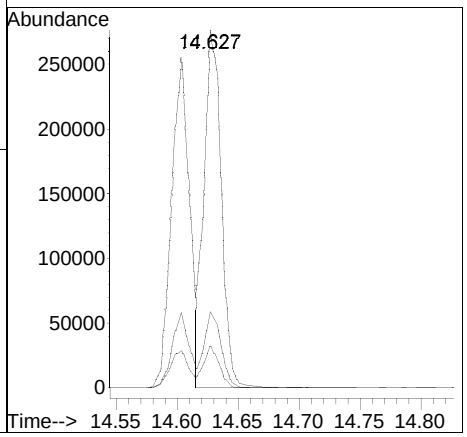


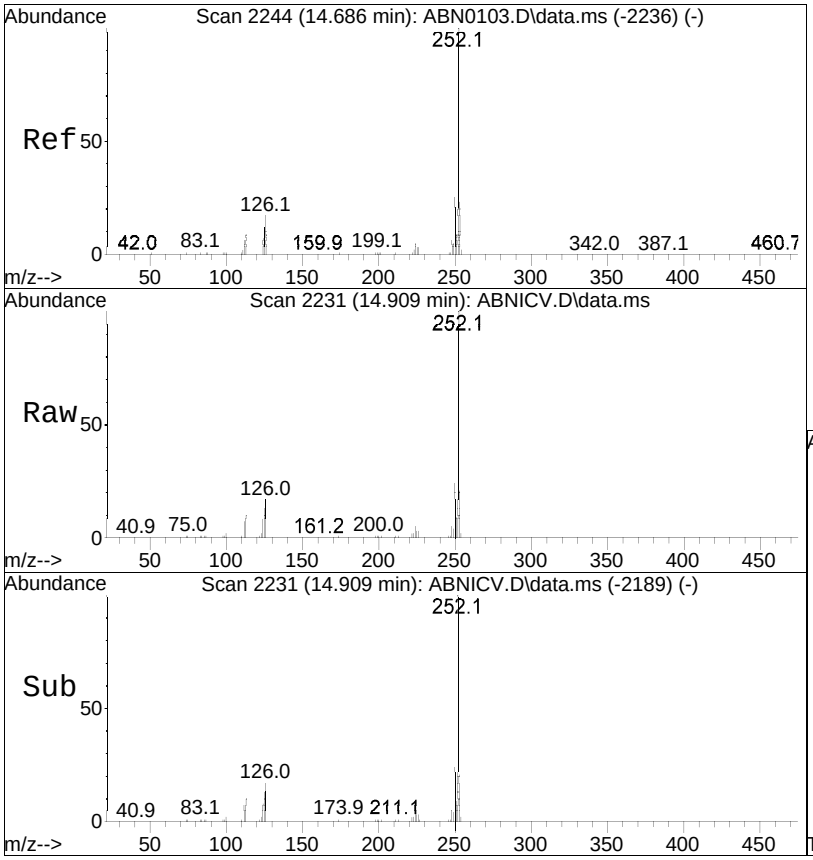


#110
Benzo(k)fluoranthene
Concen: 4.91 ug/ml
RT: 14.627 min Scan# 2183
Delta R.T. -0.006 min
Lab File: ABNICV.D
Acq: 2 Sep 2023 8:07 pm

Tgt Ion:252 Resp: 267153

Ion	Ratio	Lower	Upper
252	100		
125	10.7	13.0	19.6#
253	21.1	16.8	25.2

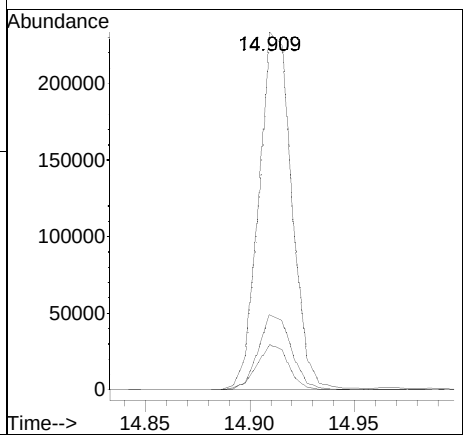


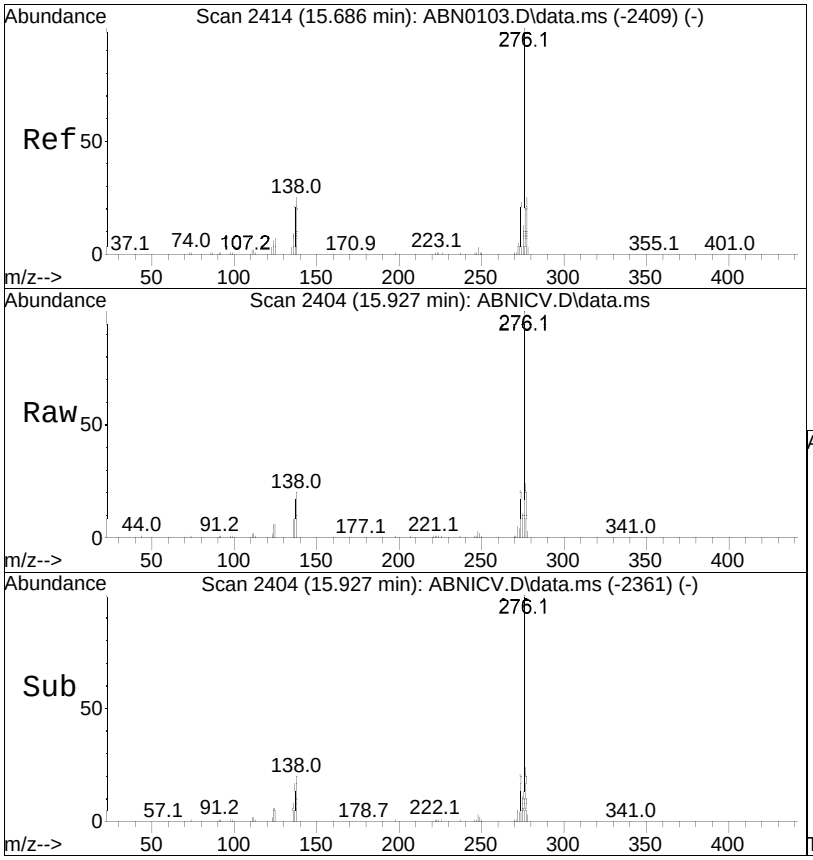


#111
Benzo(a)pyrene
Concen: 5.23 ug/ml
RT: 14.909 min Scan# 2231
Delta R.T. -0.006 min
Lab File: ABNICV.D
Acq: 2 Sep 2023 8:07 pm

Tgt Ion:252 Resp: 253755

Ion	Ratio	Lower	Upper
252	100		
125	12.4	14.2	21.2#
253	21.1	16.9	25.3

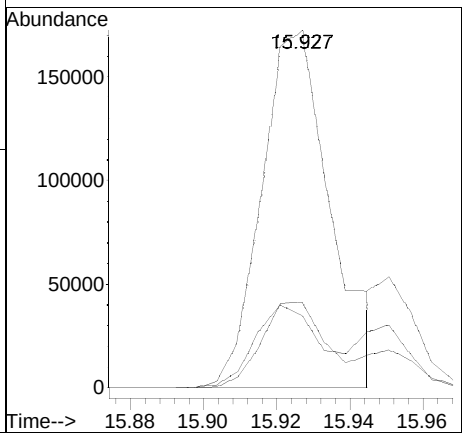


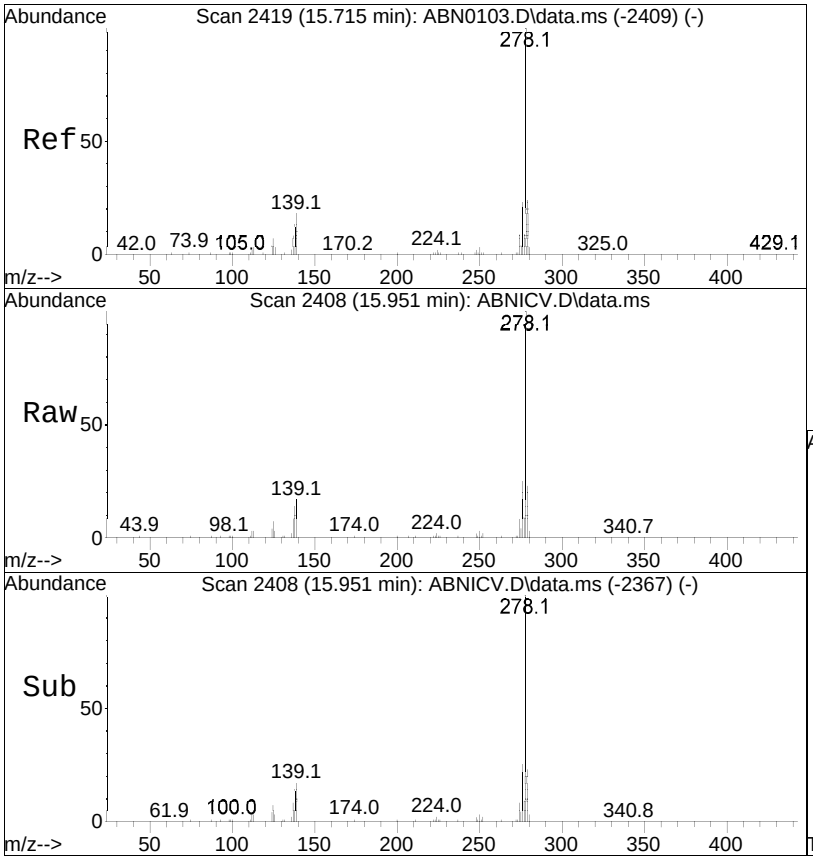


#113
Indeno(1,2,3-cd)pyrene
Concen: 4.94 ug/mL M6
RT: 15.927 min Scan# 2404
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 2 Sep 2023 8:07 pm

Tgt Ion:276 Resp: 226891

Ion	Ratio	Lower	Upper
276	100		
138	22.9	25.1	37.7#
277	31.2	18.6	28.0#

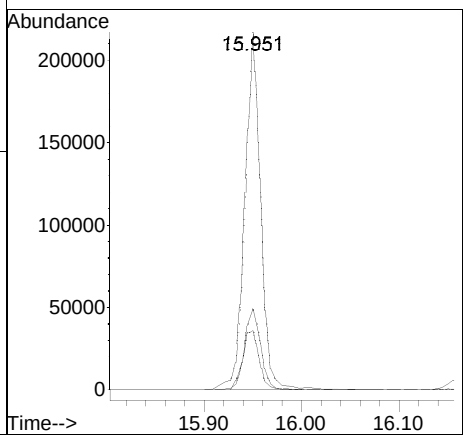


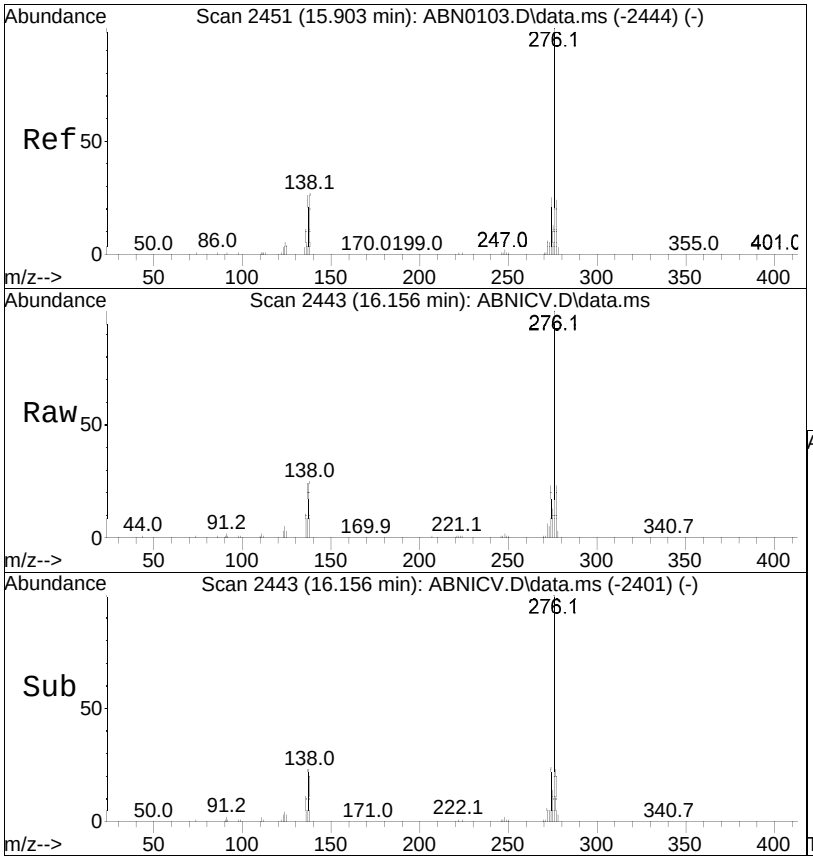


#114
Dibenzo(a,h)anthracene
Concen: 4.90 ug/ml
RT: 15.951 min Scan# 2408
Delta R.T. -0.006 min
Lab File: ABNICV.D
Acq: 2 Sep 2023 8:07 pm

Tgt Ion:278 Resp: 240753

Ion	Ratio	Lower	Upper
278	100		
139	17.4	20.8	31.2#
279	23.4	18.3	27.5

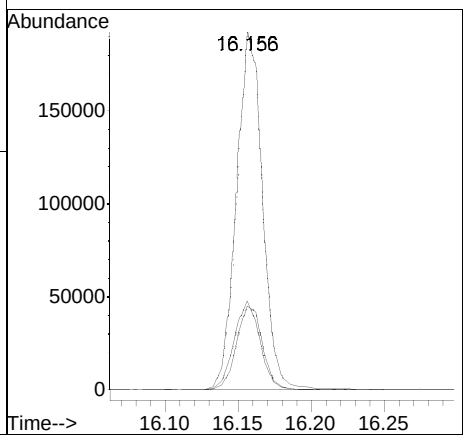




#115
Benzo(ghi)perylene
Concen: 4.86 ug/ml
RT: 16.156 min Scan# 2443
Delta R.T. -0.006 min
Lab File: ABNICV.D
Acq: 2 Sep 2023 8:07 pm

Tgt Ion:276 Resp: 236559

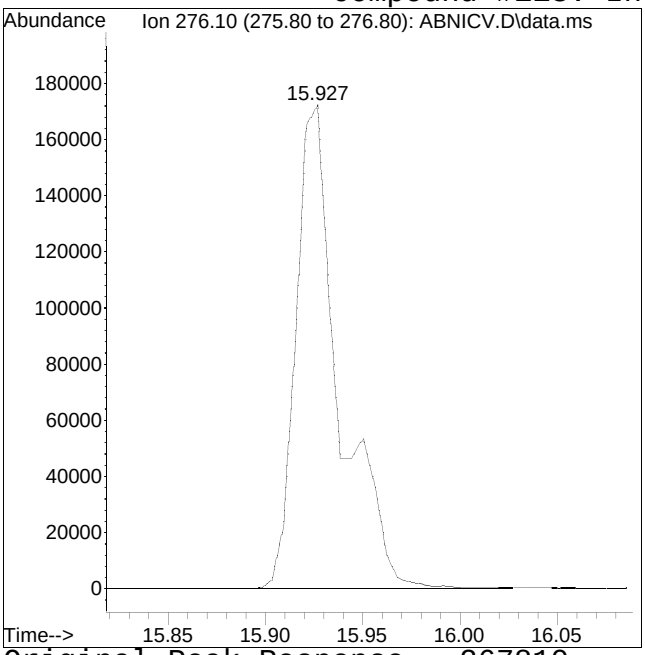
Ion	Ratio	Lower	Upper
276	100		
138	24.9	29.2	43.8#
277	23.7	18.8	28.2



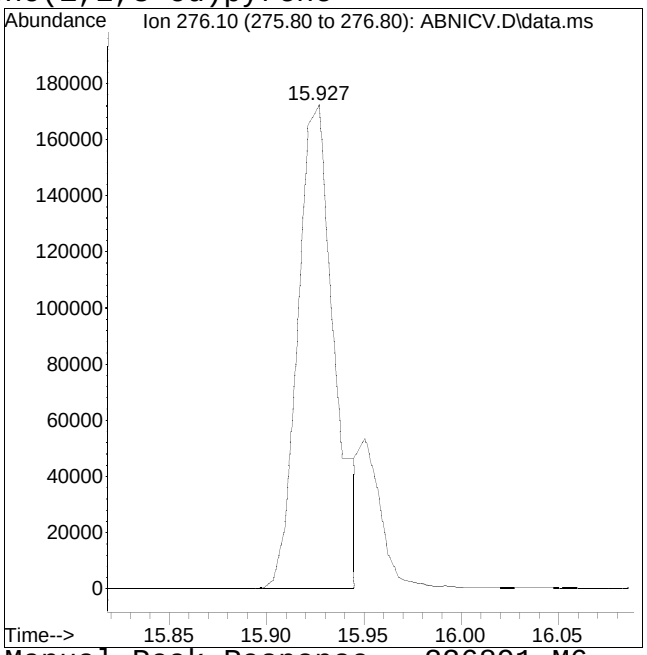
Manual Integration Report

Data Path : I:\8270\SV106\230902lviicaQMethod : FS230902SV106.m
Data File : ABNICV.D Operator : SV106:ljg
Date Inj'd : 9/2/2023 8:07 pm Instrument : SV 106
Sample : CQICV1,32,,ABNICV Lot# 102Quant Date : 9/5/2023 11:13 am

Compound #113: Indeno(1,2,3-cd)pyrene



Original Peak Response = 267810



Manual Peak Response = 226891 M6

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

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV106\230902lviical\
Data File : AP9ICV.D
Acq On : 2 Sep 2023 8:31 pm
Operator : SV106:ljg
Sample : CQICV2,32,,AP9ICV Lot# 10098
Misc : WG1823680,,ical
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Sep 05 11:17:18 2023
Quant Method : I:\8270\SV106\230902lviical\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 05 11:17:10 2023
Response via : Initial Calibration

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

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(min)
27	I	IS2_1,4-Dichlorobenzene-d4		1.000	1.000	0.0	103	0.00
28	T	Benzaldehyde		5.000	5.700	-14.0	79	0.00
29	T	Acetophenone		1.994	1.814	9.0	72	0.00
30	T	m-Toluidine		1.550	1.612	-4.0	76	0.00
31	T	2-Chloroaniline		1.670	1.554	6.9	73	0.00
54	I	IS2_Naphthalene-d8		1.000	1.000	0.0	101	0.00
55	T	a-Terpineol		0.289	0.277	4.2	75	0.00
56	T	3-Chloroaniline		0.150	0.143	4.7	71	0.00
57	T	2,6-Dichlorophenol		0.277	0.266	4.0	71	0.00
58	T	1-chloro-2-nitrobenzene		0.131	0.127	3.1	74	0.00
59	T	Caprolactam		0.147	0.140	4.8	71	0.00
60	T	1,2,4,5-Tetrachlorobenzene		0.348	0.327	6.0	74	0.00
61	T	Biphenyl		0.856	0.815	4.8	74	0.00
82	I	IS2_Acenaphthene-d10		1.000	1.000	0.0	101	0.00
83	T	Dichloran	*	5.000	4.468	10.6	68	0.00
84	T	Pentachloronitrobenzene	*	5.000	4.843	3.1	74	0.00
97	I	IS2_Phenanthrene-d10		1.000	1.000	0.0	99	0.00
98	T	Diphenamid		0.508	0.497	2.2	71	0.00

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\230902lviical\
Data File : AP9ICV.D
Acq On : 2 Sep 2023 8:31 pm
Operator : SV106:ljg
Sample : CQICV2,32,,AP9ICV Lot# 10098
Misc : WG1823680,,ical
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Sep 05 11:17:18 2023
Quant Method : I:\8270\SV106\230902lviical\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 05 11:17:10 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\230902lviical\AP9L6.D
Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
27) IS2_1,4-Dichlorobenzen...	6.281	152	45998	4.000	ug/ml		0.00
Standard Area 1 = 44570			Recovery =	103.20%			
54) IS2_Naphthalene-d8	7.716	136	171902	4.000	ug/ml		0.00
Standard Area 1 = 169751			Recovery =	101.27%			
82) IS2_Acenaphthene-d10	9.475	164	91465	4.000	ug/ml		0.00
Standard Area 1 = 90319			Recovery =	101.27%			
97) IS2_Phenanthrene-d10	10.904	188	181296	4.000	ug/ml	#	0.00
Standard Area 1 = 182619			Recovery =	99.28%			
System Monitoring Compounds							
Target Compounds							Qvalue
28) Benzaldehyde	5.687	105	57187	5.700	ug/ml		95
29) Acetophenone	6.787	105	104323	4.549	ug/ml	#	82
30) m-Toluidine	6.887	106	92668	5.200	ug/ml		95
31) 2-Chloroaniline	7.292	127	89358	4.652	ug/ml	#	94
55) a-Terpineol	7.792	59	59544	4.799	ug/ml	#	77
56) 3-Chloroaniline	7.804	65	30638	4.740	ug/ml		91
57) 2,6-Dichlorophenol	7.828	162	57232	4.814	ug/ml		91
58) 1-chloro-2-nitrobenzene	8.098	111	27211	4.831	ug/ml	#	1
59) Caprolactam	8.133	55	30067	4.771	ug/ml	#	72
60) 1,2,4,5-Tetrachloroben...	8.628	216	70230	4.697	ug/ml		99
61) Biphenyl	8.928	154	175098	4.761	ug/ml		100
83) Dichloran	10.604	206	13152	4.468	ug/ml		87
84) Pentachloronitrobenzene	10.757	237	18573	4.843	ug/ml	#	80
98) Diphenamid	11.816	167	112554	4.888	ug/ml	#	83

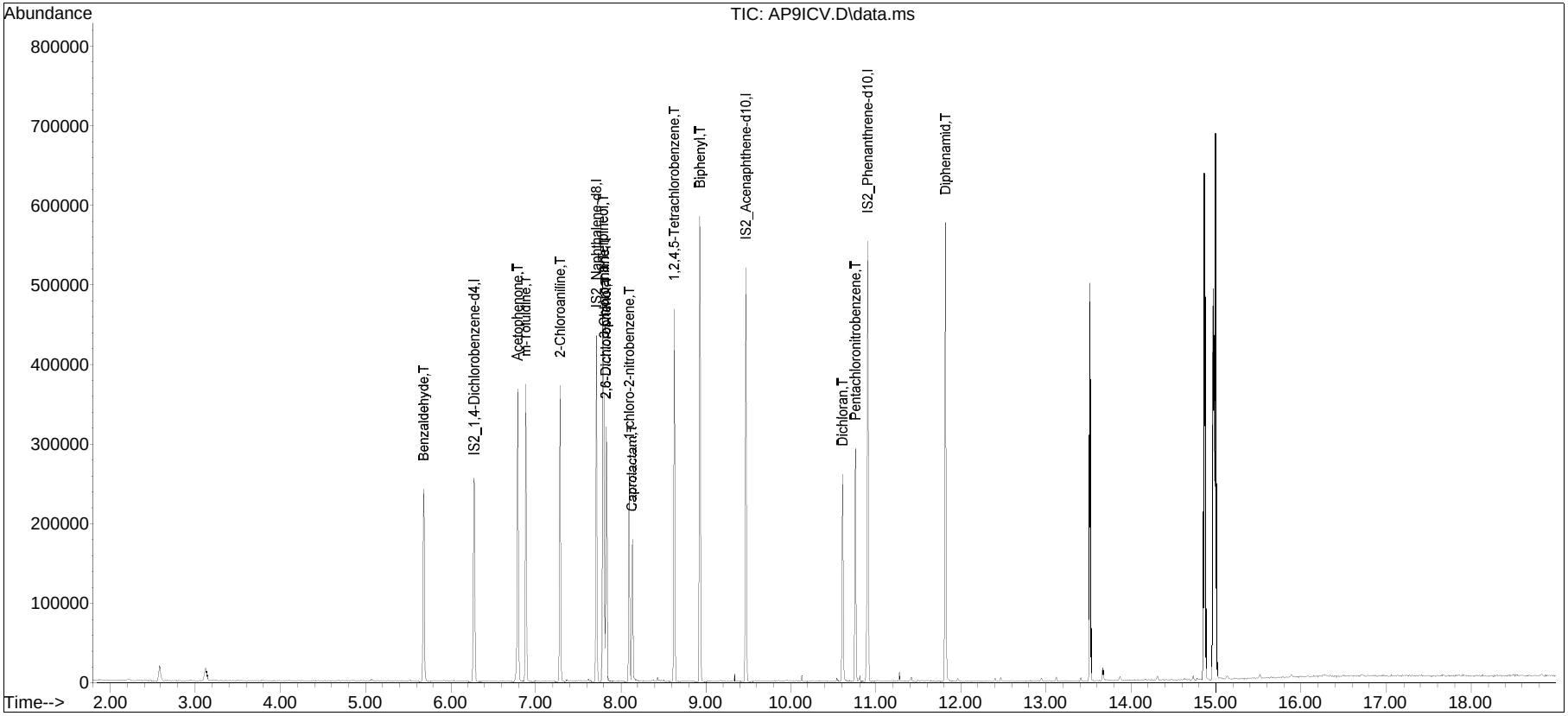
(#) = qualifier out of range (m) = manual integration (+) = signals summed

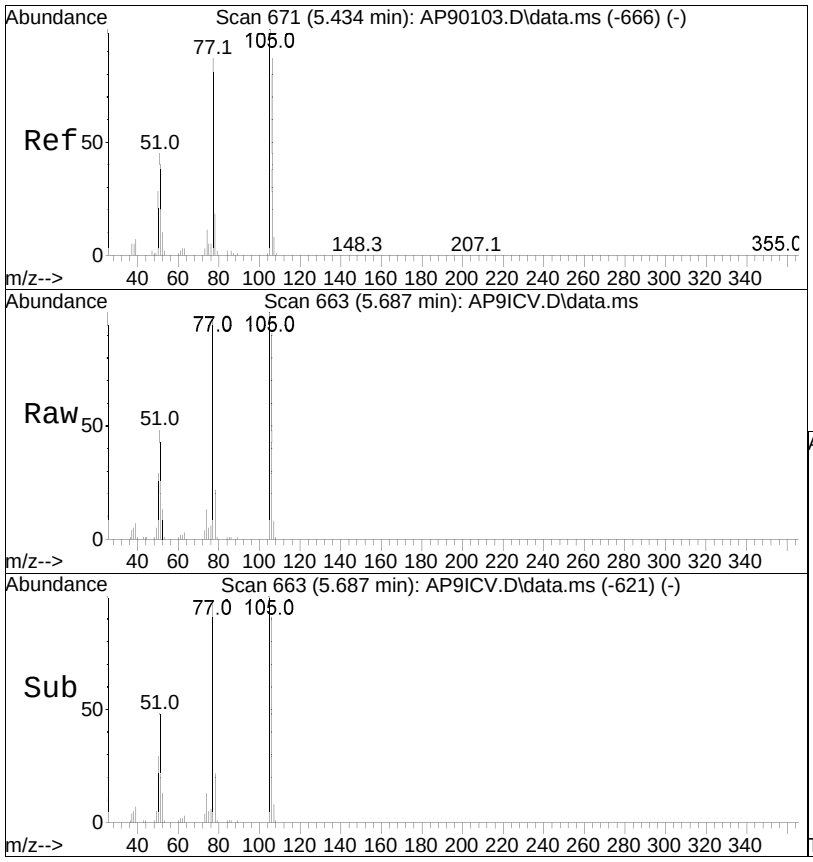
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\230902lviical\
Data File : AP9ICV.D
Acq On : 2 Sep 2023 8:31 pm
Operator : SV106:ljg
Sample : CQICV2,32,,AP9ICV Lot# 10098
Misc : WG1823680,,ical
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Sep 05 11:17:18 2023
Quant Method : I:\8270\SV106\230902lviical\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 05 11:17:10 2023
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistiical\AP9L6.D•

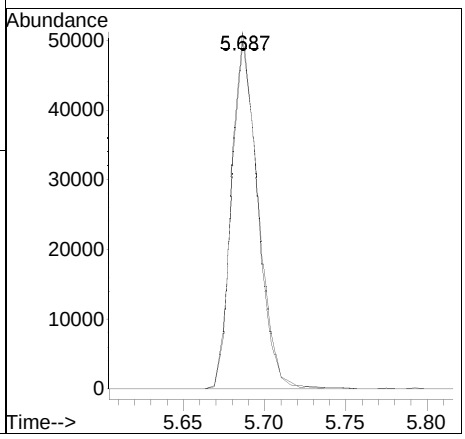


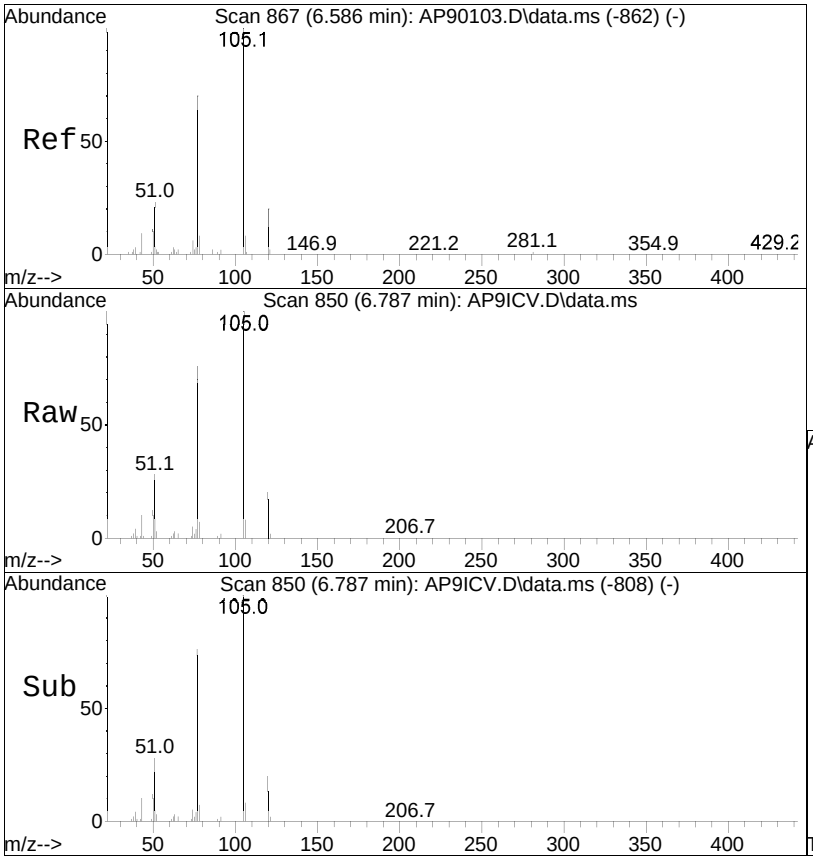


#28
Benzaldehyde
Concen: 5.70 ug/ml
RT: 5.687 min Scan# 663
Delta R.T. -0.000 min
Lab File: AP9ICV.D
Acq: 2 Sep 2023 8:31 pm

Tgt Ion:105 Resp: 57187

Ion	Ratio	Lower	Upper
105	100		
77	97.4	82.2	123.4

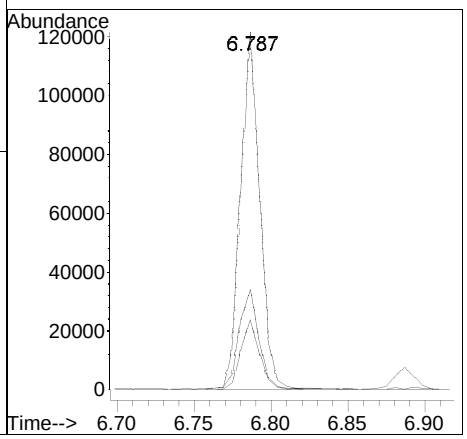


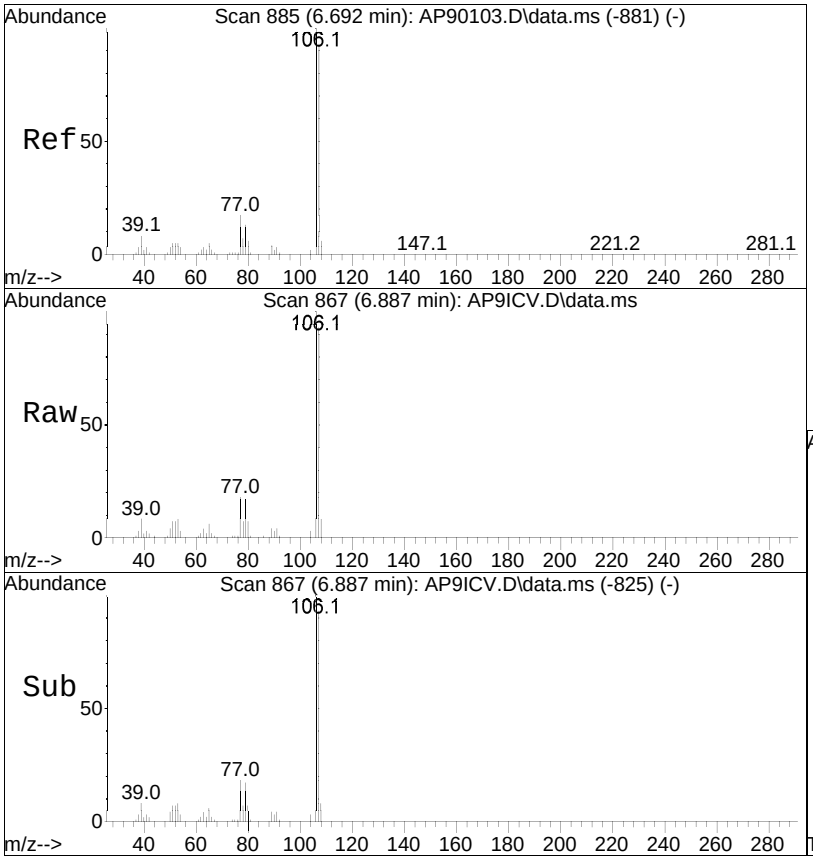


#29
Acetophenone
Concen: 4.55 ug/ml
RT: 6.787 min Scan# 850
Delta R.T. -0.000 min
Lab File: AP9ICV.D
Acq: 2 Sep 2023 8:31 pm

Tgt Ion:105 Resp: 104323

Ion	Ratio	Lower	Upper
105	100		
120	19.2	20.5	30.7#
51	29.6	34.9	52.3#

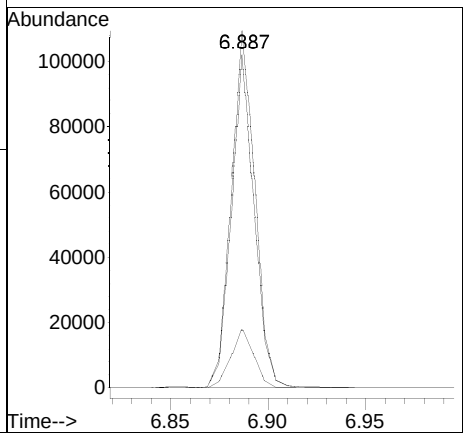


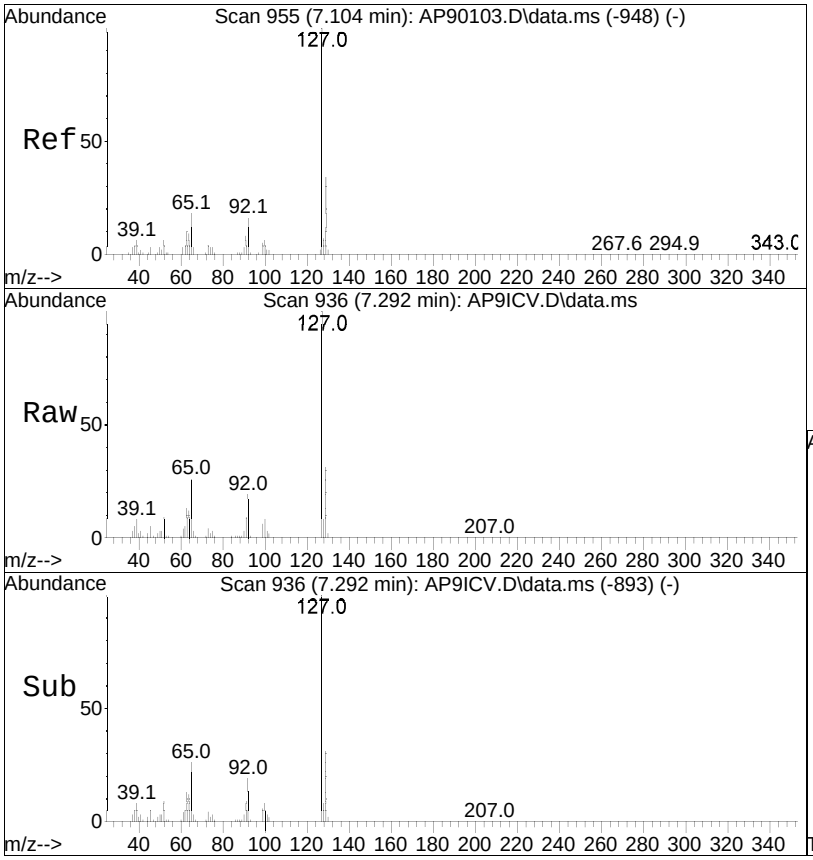


#30
m-Toluidine
Concen: 5.20 ug/ml
RT: 6.887 min Scan# 867
Delta R.T. -0.000 min
Lab File: AP9ICV.D
Acq: 2 Sep 2023 8:31 pm

Tgt Ion:106 Resp: 92668

Ion	Ratio	Lower	Upper
106	100		
107	89.6	75.7	113.5
79	15.9	11.8	17.8

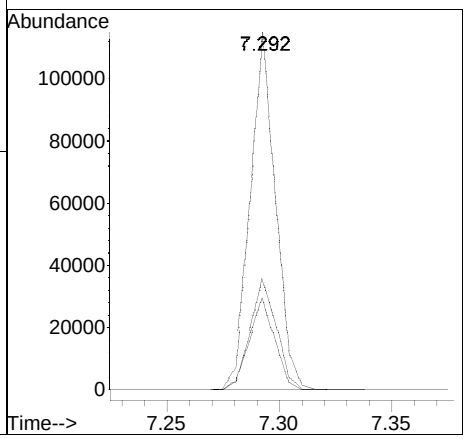


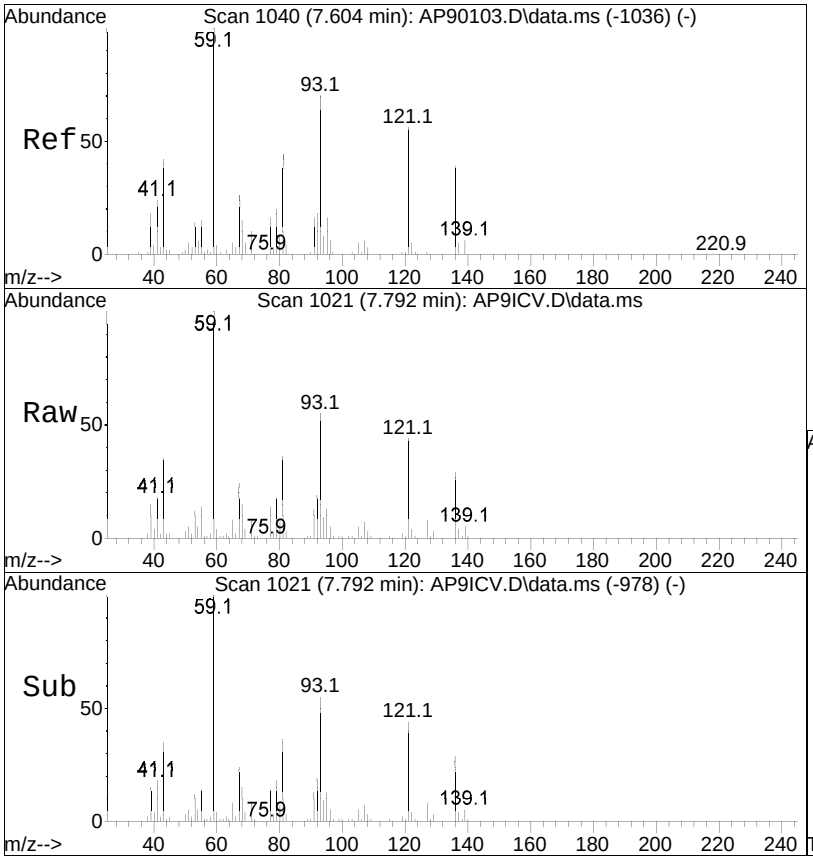


#31
2-Chloroaniline
Concen: 4.65 ug/ml
RT: 7.292 min Scan# 936
Delta R.T. 0.000 min
Lab File: AP9ICV.D
Acq: 2 Sep 2023 8:31 pm

Tgt Ion:127 Resp: 89358

Ion	Ratio	Lower	Upper
127	100		
129	32.5	25.9	38.9
65	26.2	26.3	39.5#

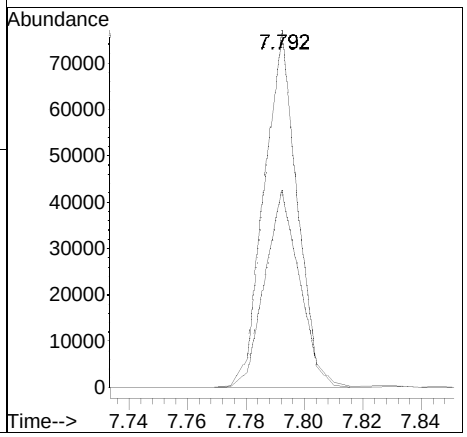


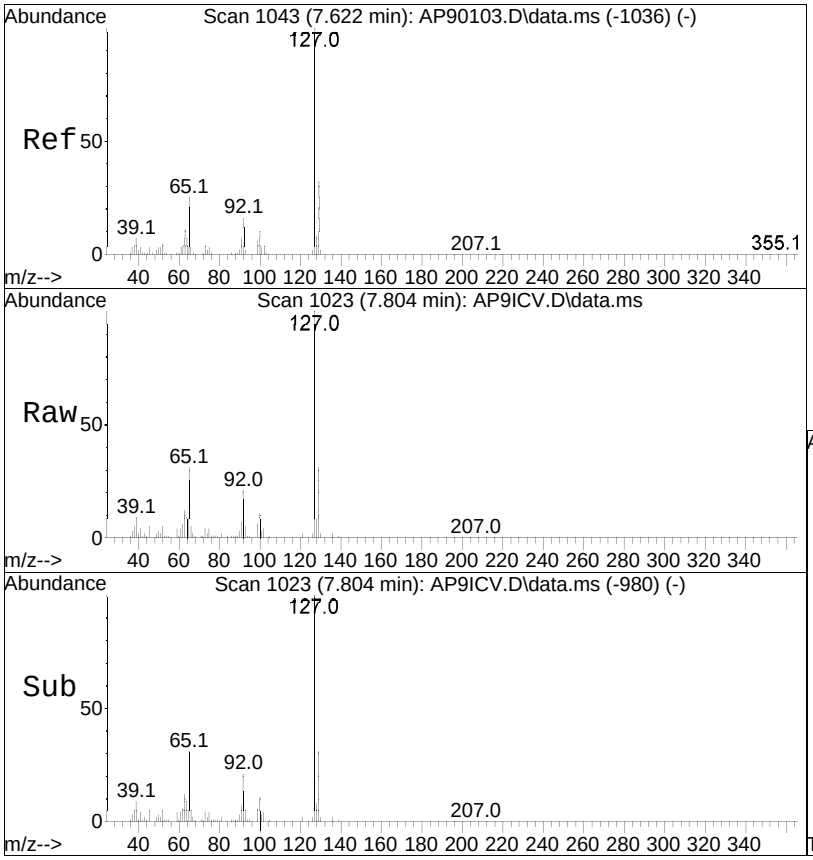


#55
a-Terpineol
Concen: 4.80 ug/ml
RT: 7.792 min Scan# 1021
Delta R.T. 0.000 min
Lab File: AP9ICV.D
Acq: 2 Sep 2023 8:31 pm

Tgt Ion: 59 Resp: 59544

Ion	Ratio	Lower	Upper
59	100		
93	59.2	35.6	53.4#

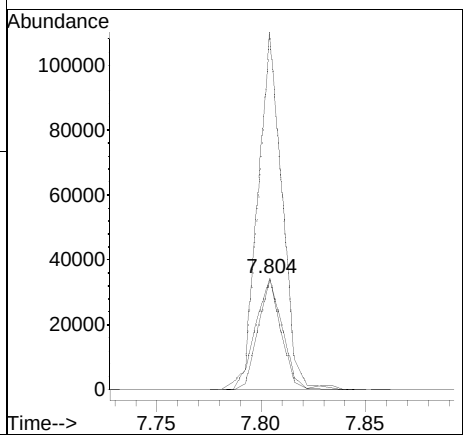


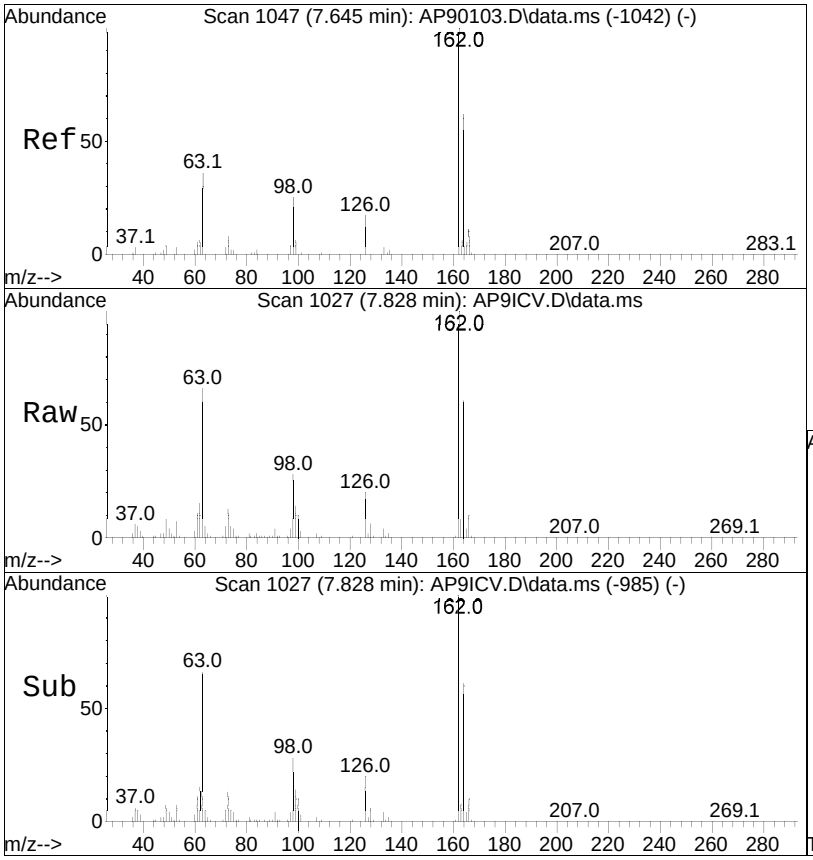


#56
3-Chloroaniline
Concen: 4.74 ug/ml
RT: 7.804 min Scan# 1023
Delta R.T. 0.000 min
Lab File: AP9ICV.D
Acq: 2 Sep 2023 8:31 pm

Tgt Ion: 65 Resp: 30638

Ion	Ratio	Lower	Upper
65	100		
127	284.6	243.2	364.8
129	90.8	78.8	118.2

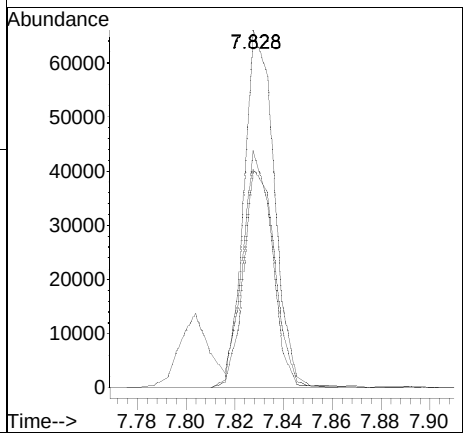


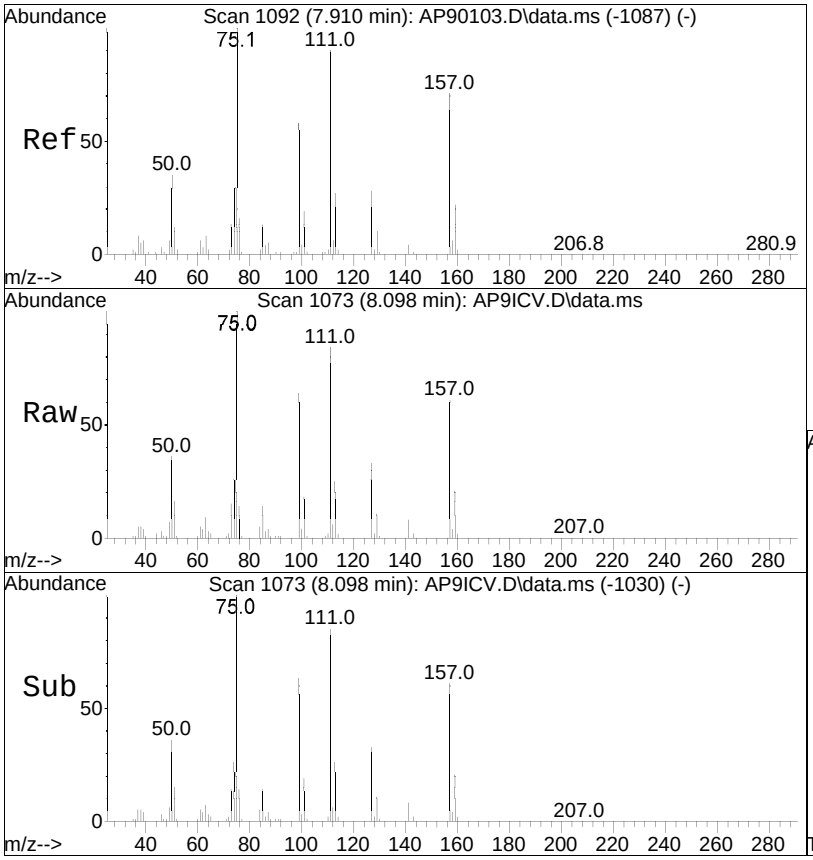


#57
2,6-Dichlorophenol
Concen: 4.81 ug/ml
RT: 7.828 min Scan# 1027
Delta R.T. -0.000 min
Lab File: AP9ICV.D
Acq: 2 Sep 2023 8:31 pm

Tgt Ion:162 Resp: 57232

Ion	Ratio	Lower	Upper
162	100		
164	62.5	51.1	76.7
63	63.3	60.8	91.2

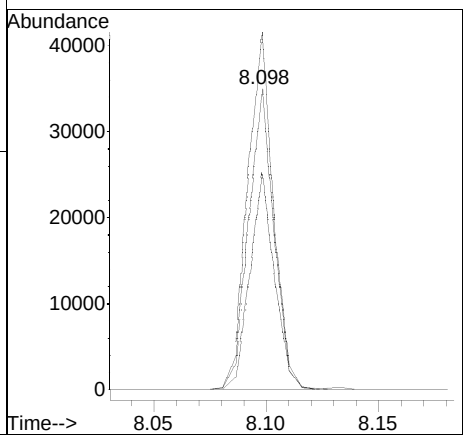


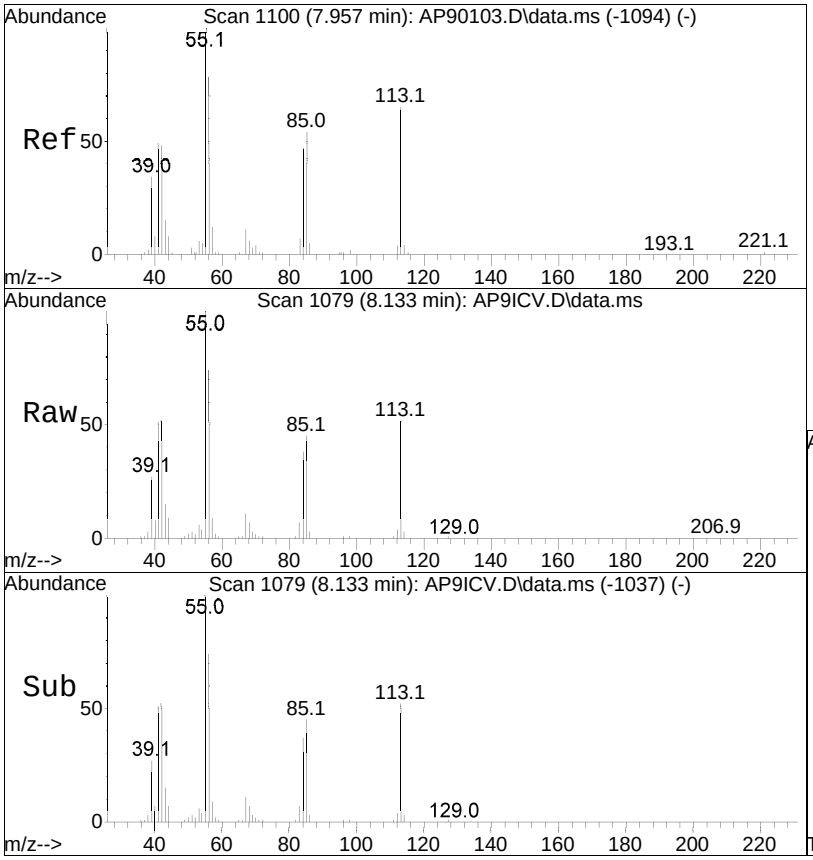


#58
1-chloro-2-nitrobenzene
Concen: 4.83 ug/ml
RT: 8.098 min Scan# 1073
Delta R.T. 0.000 min
Lab File: AP9ICV.D
Acq: 2 Sep 2023 8:31 pm

Tgt Ion:111 Resp: 27211

Ion	Ratio	Lower	Upper
111	100		
157	69.6	0.0	0.0#
75	119.9	28.2	42.2#

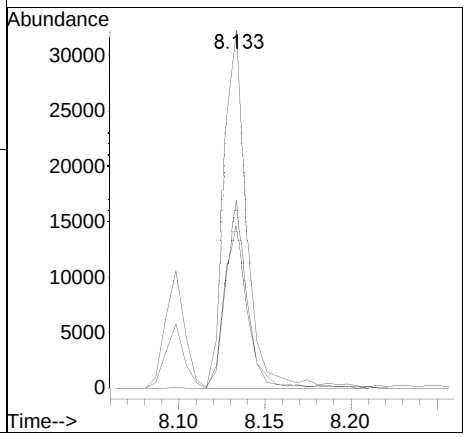


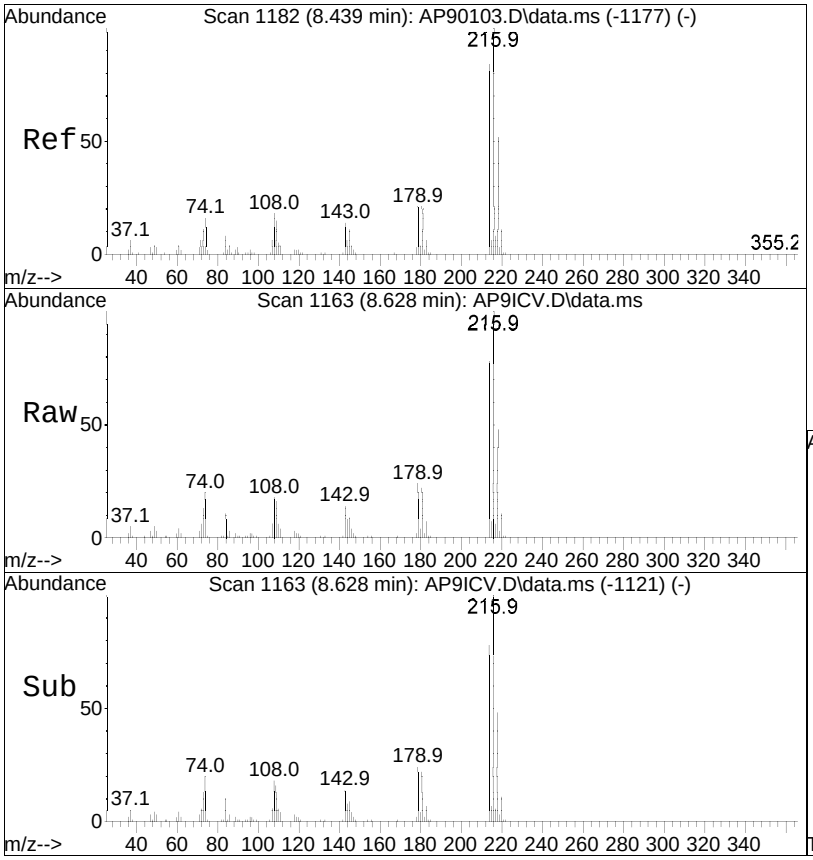


#59
Caprolactam
Concen: 4.77 ug/ml
RT: 8.133 min Scan# 1079
Delta R.T. -0.001 min
Lab File: AP9ICV.D
Acq: 2 Sep 2023 8:31 pm

Tgt Ion: 55 Resp: 30067

Ion	Ratio	Lower	Upper
55	100		
85	46.3	19.8	29.6#
113	47.2	29.6	44.4#

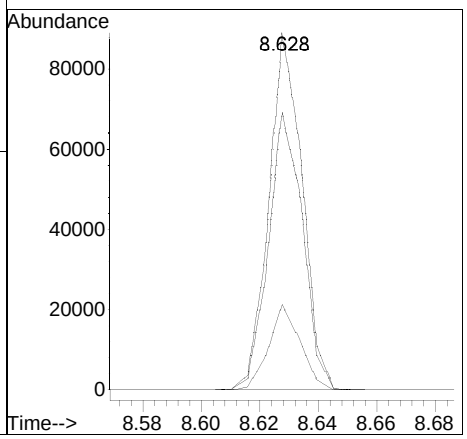


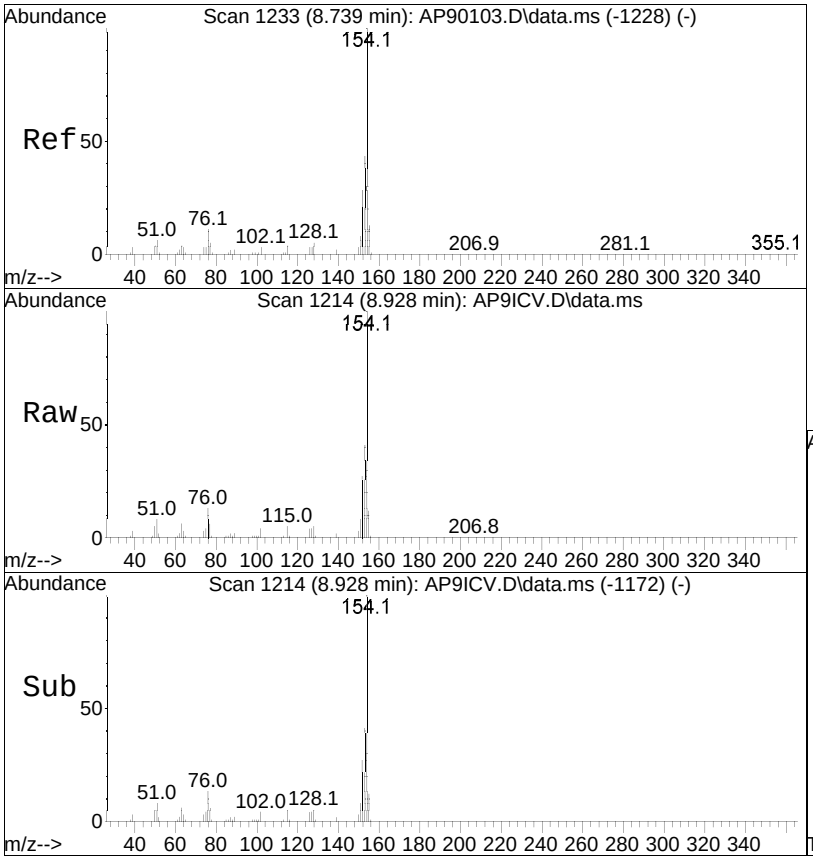


#60
1,2,4,5-Tetrachlorobenzene
Concen: 4.70 ug/ml
RT: 8.628 min Scan# 1163
Delta R.T. -0.000 min
Lab File: AP9ICV.D
Acq: 2 Sep 2023 8:31 pm

Tgt Ion:216 Resp: 70230

Ion	Ratio	Lower	Upper
216	100		
214	79.7	63.7	95.5
179	22.8	19.0	28.6

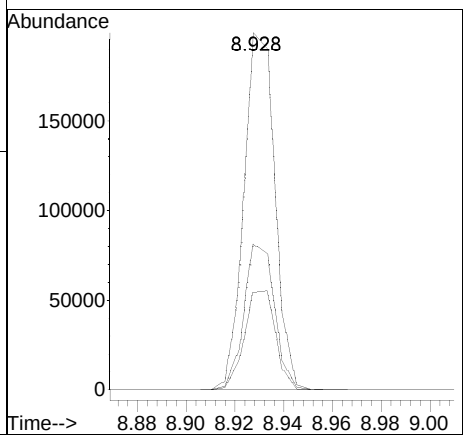


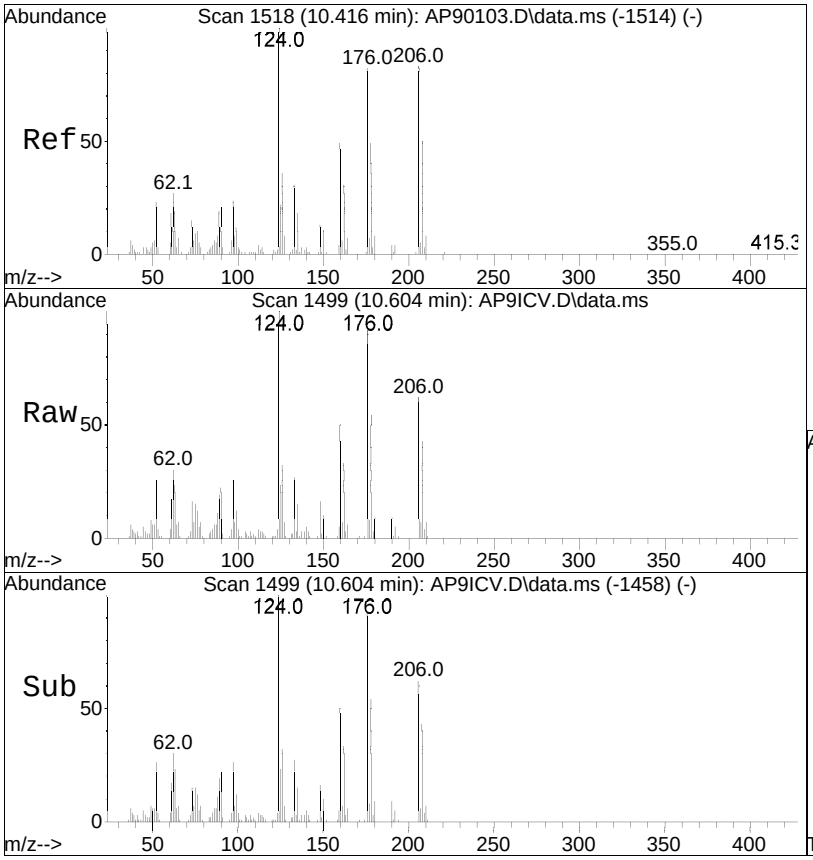


#61
Biphenyl
Concen: 4.76 ug/ml
RT: 8.928 min Scan# 1214
Delta R.T. -0.000 min
Lab File: AP9ICV.D
Acq: 2 Sep 2023 8:31 pm

Tgt Ion:154 Resp: 175098

Ion	Ratio	Lower	Upper
154	100		
153	40.3	32.3	48.5
152	28.0	22.5	33.7

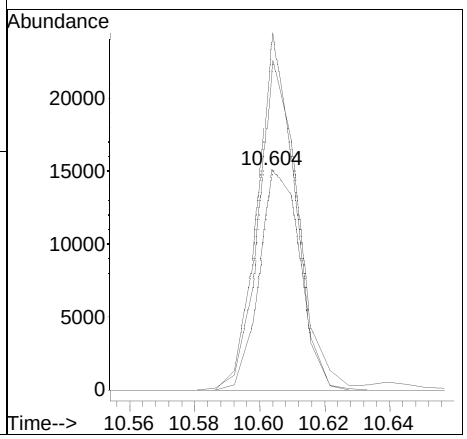


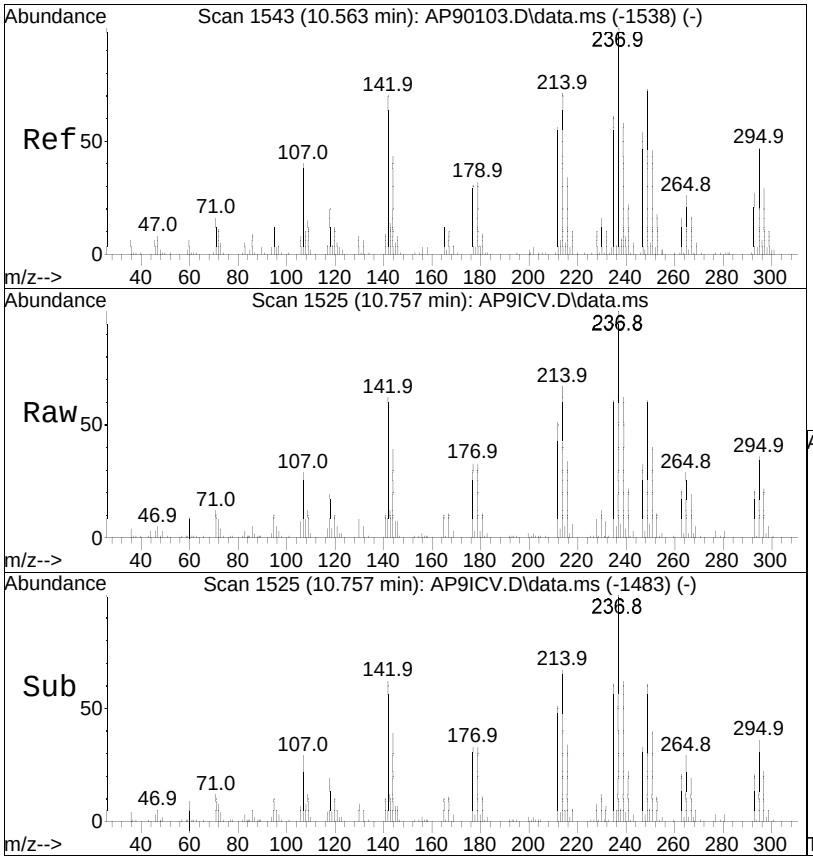


#83
Dichloran
Concen: 4.47 ug/ml
RT: 10.604 min Scan# 1499
Delta R.T. -0.006 min
Lab File: AP9ICV.D
Acq: 2 Sep 2023 8:31 pm

Tgt Ion:206 Resp: 13152

Ion	Ratio	Lower	Upper
206	100		
176	145.2	104.6	157.0
124	145.5	130.5	195.7

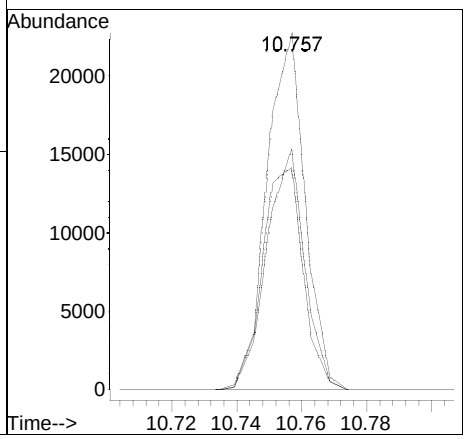


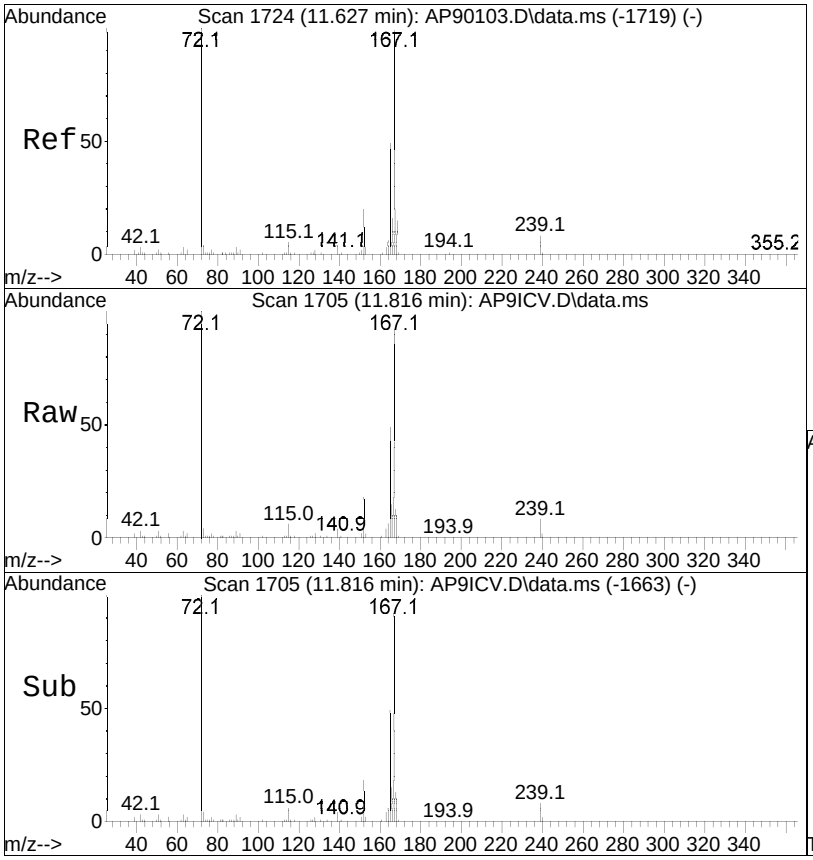


#84
Pentachloronitrobenzene
Concen: 4.84 ug/ml
RT: 10.757 min Scan# 1525
Delta R.T. -0.000 min
Lab File: AP9ICV.D
Acq: 2 Sep 2023 8:31 pm

Tgt Ion:237 Resp: 18573

Ion	Ratio	Lower	Upper
237	100		
142	66.2	77.0	115.4#
214	67.1	58.2	87.4

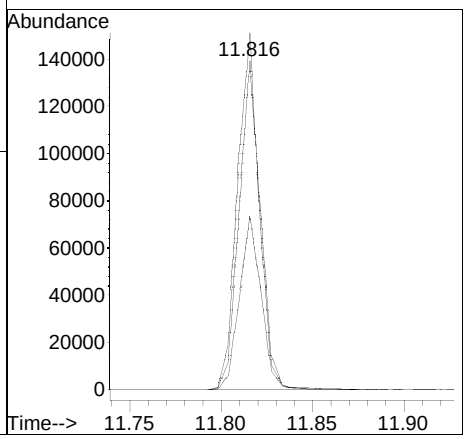




#98
Diphenamid
Concen: 4.89 ug/ml
RT: 11.816 min Scan# 1705
Delta R.T. -0.000 min
Lab File: AP9ICV.D
Acq: 2 Sep 2023 8:31 pm

Tgt Ion:167 Resp: 112554

Ion	Ratio	Lower	Upper
167	100		
72	109.3	109.7	164.5#
165	53.7	41.8	62.6



Manual Integration Report

Data Path	: I:\8270\SV106\230902lviica	QMethod	: FS230902SV106.m
Data File	: AP9ICV.D	Operator	: SV106:ljg
Date Inj'd	: 9/2/2023 8:31 pm	Instrument	: SV 106
Sample	: CQICV2,32,,AP9ICV Lot# 100	Quant Date	: 9/5/2023 11:17 am

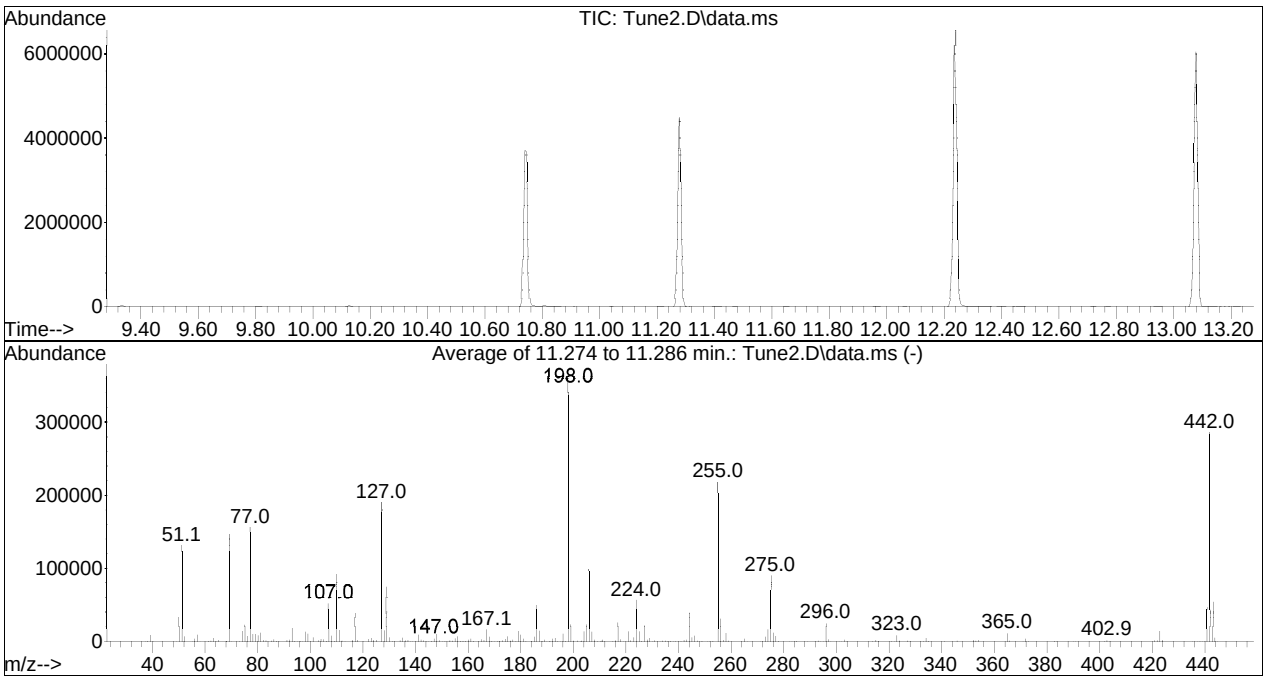
There are no manual integrations or false positives in this file.

DFTPP

Data Path : I:\8270\SV106\230902lviical\
Data File : Tune2.D
Acq On : 2 Sep 2023 8:54 pm
Operator : SV106:ljg
Sample : Tune2
Misc : WG1823680,,ical
ALS Vial : 141 Sample Multiplier: 1

Integration File: rteint.p

Method : I:\8270\SV106\230902lviical\FS230902SV106.m
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Tue Sep 05 11:32:08 2023



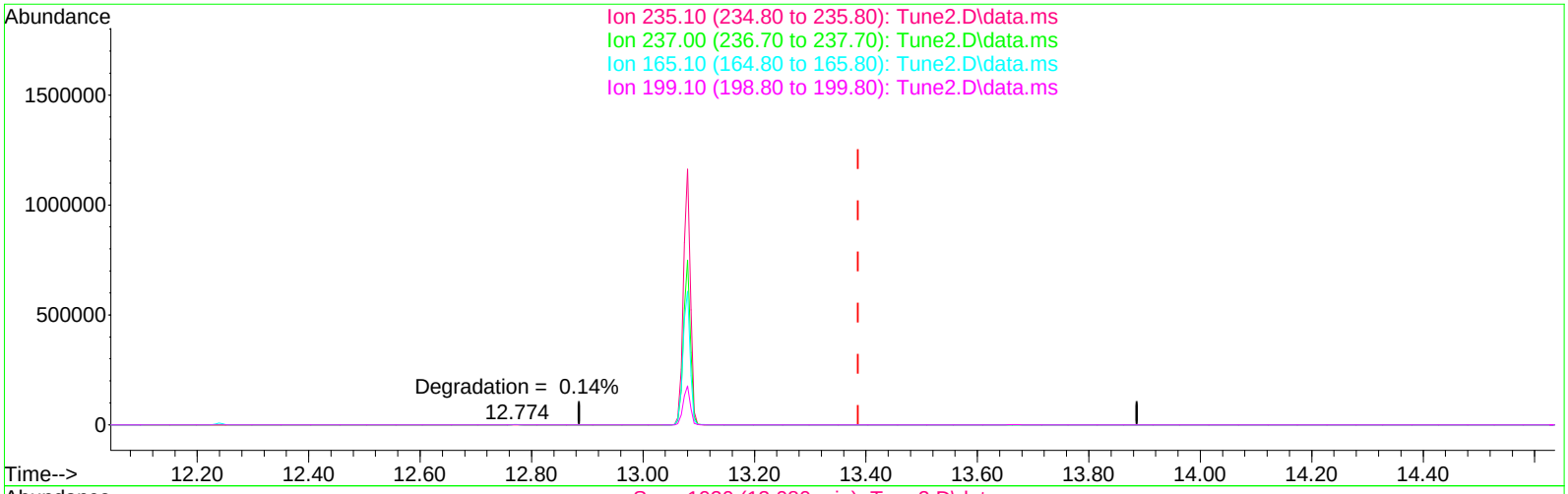
Spectrum Information: Average of 11.274 to 11.286 min.

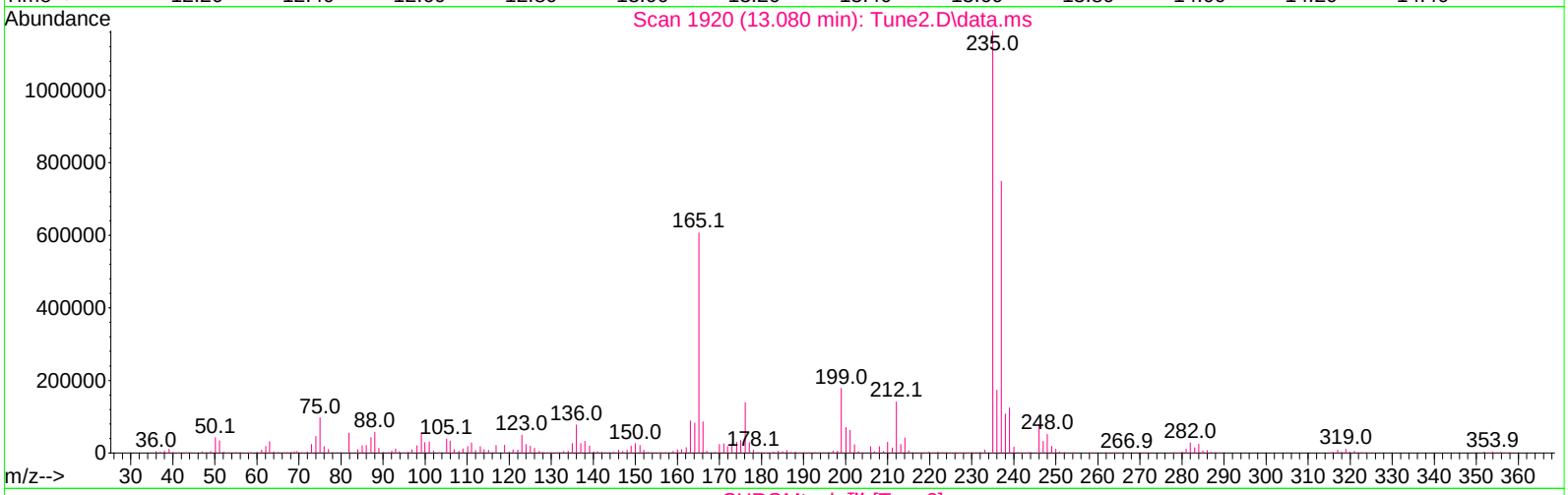
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	36.3	131080	PASS
68	69	0.00	2	0.8	1201	PASS
69	69	100	100	100.0	146037	PASS
70	69	0.00	2	0.5	756	PASS
127	198	10	80	52.5	189427	PASS
197	198	0.00	2	0.4	1377	PASS
198	198	100	100	100.0	360875	PASS
199	198	5	9	6.5	23397	PASS
275	198	10	60	24.7	89293	PASS
365	198	1	100	3.1	11054	PASS
441	442	0.01	24	16.2	46221	PASS
442	198	50	100	79.3	286059	PASS
443	442	15	24	18.6	53192	PASS

Quantitation Report (Qedit)

Data Path : I:\8270\SV106\230902lviical\
Data File : Tune2.D
Acq On : 2 Sep 2023 8:54 pm
Operator : SV106:ljg
Sample : Tune2
Misc : WG1823680,,ical
ALS Vial : 141 Sample Multiplier: 1

Quant Time: Sep 03 14:44:47 2023
Quant Method : I:\8270\SV106\230902lviical\DftppSV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Aug 23 13:06:27 2023
Response via : Initial Calibration





CHROMtools™ [Tune2]

(6) DDT (T)

13.080min (-0.306) 166.16

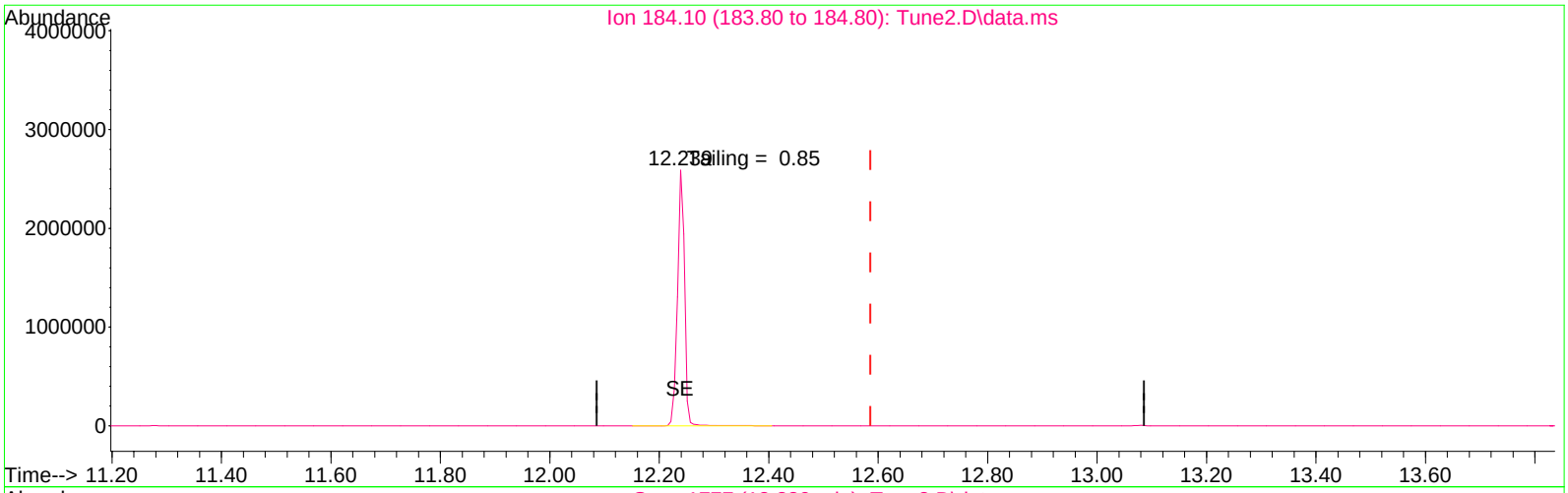
response 1012841

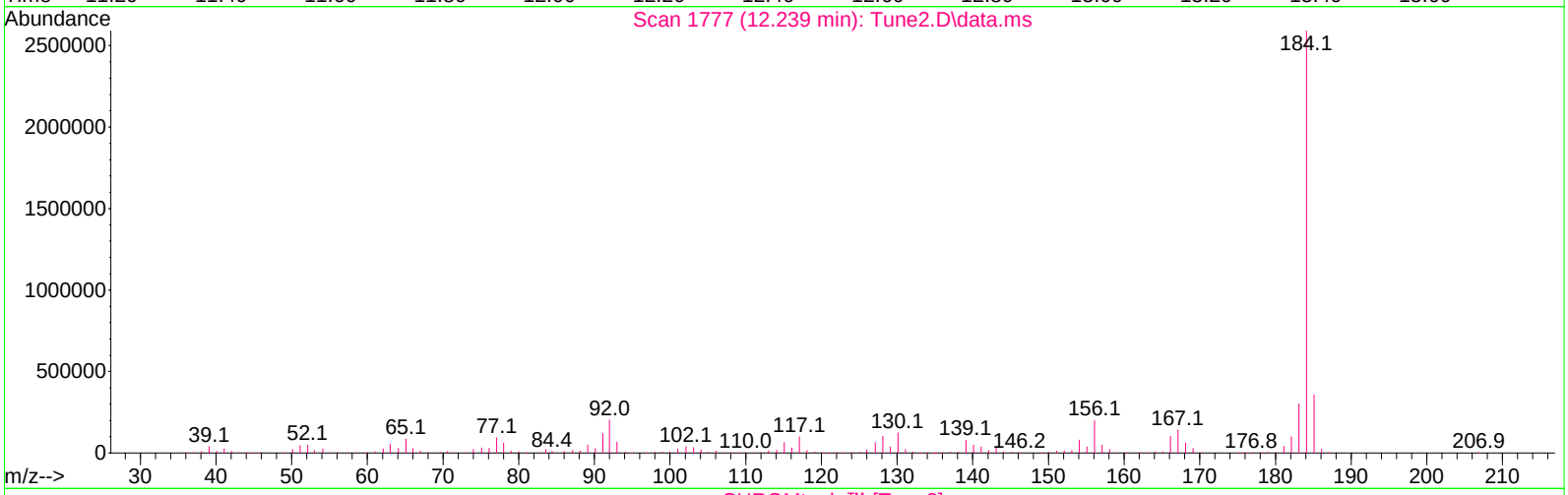
Ion	Exp%	Act%
235.10	100.00	100.00
237.00	63.00	63.71
165.10	54.80	52.99
199.10	16.50	15.43

Quantitation Report (Qedit)

Data Path : I:\8270\SV106\230902lviical\
Data File : Tune2.D
Acq On : 2 Sep 2023 8:54 pm
Operator : SV106:ljg
Sample : Tune2
Misc : WG1823680,,ical
ALS Vial : 141 Sample Multiplier: 1

Quant Time: Sep 03 14:44:47 2023
Quant Method : I:\8270\SV106\230902lviical\DftppSV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Aug 23 13:06:27 2023
Response via : Initial Calibration





CHROMtools™ [Tune2]

(3) Benzidine (T)

12.239min (-0.347) 229.25

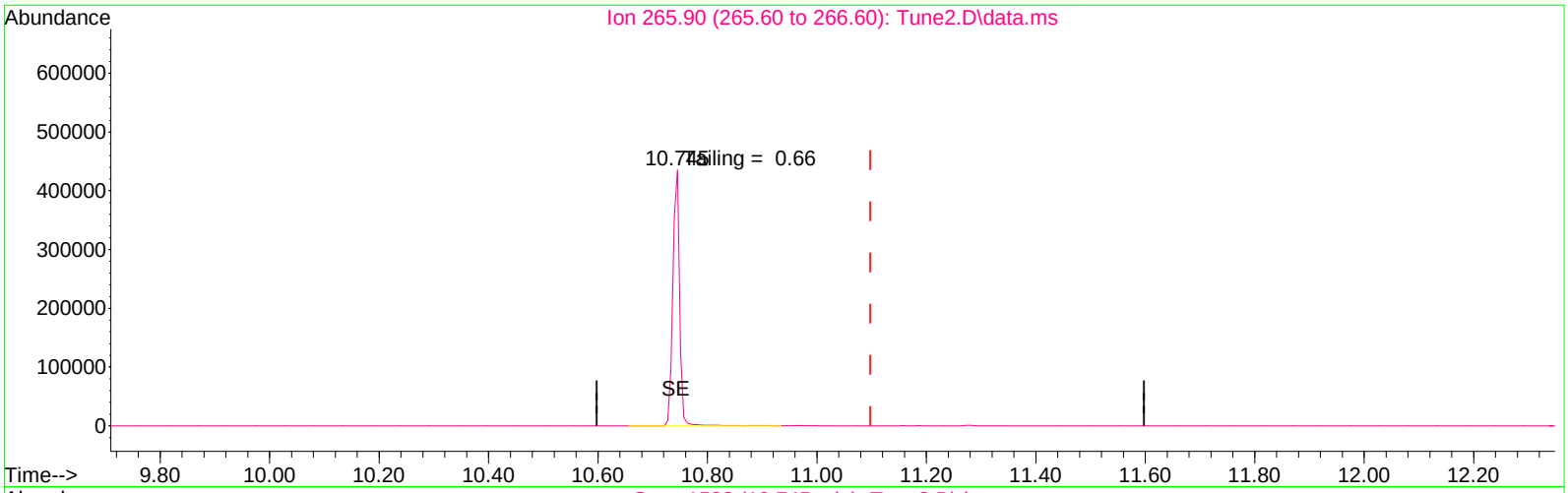
response 2333766

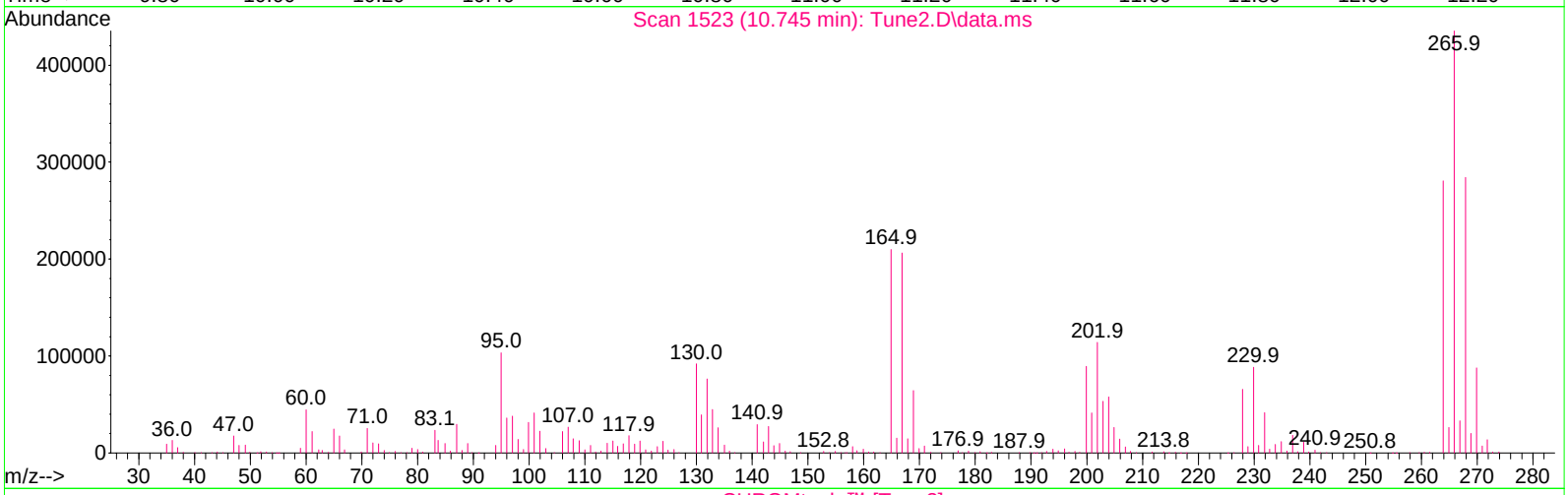
Ion	Exp%	Act%
184.10	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\8270\SV106\230902lviical\
Data File : Tune2.D
Acq On : 2 Sep 2023 8:54 pm
Operator : SV106:ljg
Sample : Tune2
Misc : WG1823680,,ical
ALS Vial : 141 Sample Multiplier: 1

Quant Time: Sep 03 14:44:47 2023
Quant Method : I:\8270\SV106\230902lviical\DftppSV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Aug 23 13:06:27 2023
Response via : Initial Calibration





CHROMtools™ [Tune2]

(1) Pentachlorophenol (T)

10.745min (-0.353) 177.76

response 373352

Ion	Exp%	Act%
265.90	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\230902lviical\
Data File : ADPL10.D
Acq On : 2 Sep 2023 9:18 pm
Operator : SV106:ljg
Sample : IL1,32,,ADPL50 Lot# 10079
Misc : WG1823680,,ical
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Sep 05 11:15:51 2023
Quant Method : I:\8270\SV106\230902lviical\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 05 11:15:43 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\230902lviical\ADPL6.D
Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	6.281	152	44178	4.000	ug/ml	0.00
Standard Area 1 = 45289			Recovery =	97.55%		
85) IS3_Acenaphthene-d10	9.475	164	93077	4.000	ug/ml	0.00
Standard Area 1 = 91334			Recovery =	101.91%		
99) IS3_Phenanthrene-d10	10.904	188	182189	4.000	ug/ml	# 0.00
Standard Area 1 = 180632			Recovery =	100.86%		
System Monitoring Compounds						
Target Compounds						Qvalue
33) n-Decane	6.181	57	752648	50.588	ug/ml#	45
86) Atrazine	10.698	200	432139	53.882	ug/ml	93
100) n-Octadecane	10.898	57	1100463	52.552	ug/ml#	1
101) Parathion	11.698	109	274170	64.113	ug/ml#	91
102) 3,3'-Dimethylbenzidine	12.969	212	1777191	51.657	ug/ml	99

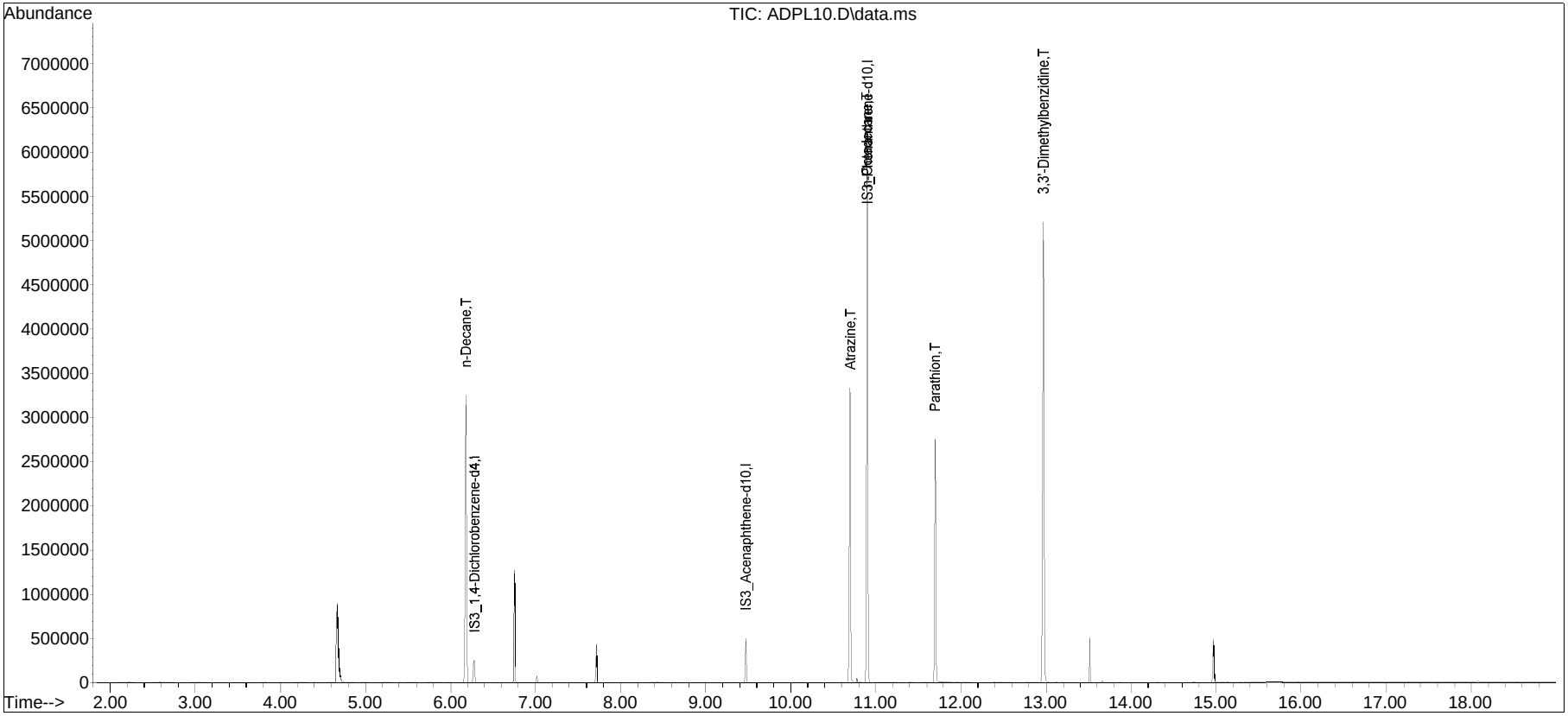
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\230902lviical\
Data File : ADPL10.D
Acq On : 2 Sep 2023 9:18 pm
Operator : SV106:ljg
Sample : IL1,32,,ADPL50 Lot# 10079
Misc : WG1823680,,ical
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Sep 05 11:15:51 2023
Quant Method : I:\8270\SV106\230902lviical\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 05 11:15:43 2023
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublistiical\ADPL6.D•



Manual Integration Report

Data Path	: I:\8270\SV106\230902lviica	QMethod	: FS230902SV106.m
Data File	: ADPL10.D	Operator	: SV106:ljg
Date Inj'd	: 9/2/2023 9:18 pm	Instrument	: SV 106
Sample	: IL1,32,,ADPL50 Lot# 10079	Quant Date	: 9/5/2023 11:15 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\230902lviical\
Data File : ADPL9.D
Acq On : 2 Sep 2023 9:42 pm
Operator : SV106:ljg
Sample : IL2,32,,ADPL35 Lot# 10089
Misc : WG1823680,,ical
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Sep 05 11:17:08 2023
Quant Method : I:\8270\SV106\230902lviical\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 05 11:17:00 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\230902lviical\ADPL6.D
Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
32) IS3_1,4-Dichlorobenzen...	6.281	152	44516	4.000	ug/ml		0.00
Standard Area 1 = 45289			Recovery =	98.29%			
85) IS3_Acenaphthene-d10	9.475	164	91267	4.000	ug/ml		0.00
Standard Area 1 = 91334			Recovery =	99.93%			
99) IS3_Phenanthrene-d10	10.904	188	186854	4.000	ug/ml	#	0.00
Standard Area 1 = 180632			Recovery =	103.44%			
System Monitoring Compounds							
Target Compounds							Qvalue
33) n-Decane	6.181	57	513347	34.242	ug/ml	#	45
86) Atrazine	10.692	200	298706	37.983	ug/ml		93
100) n-Octadecane	10.898	57	761864	35.474	ug/ml	#	1
101) Parathion	11.698	109	182830	41.687	ug/ml	#	91
102) 3,3'-Dimethylbenzidine	12.968	212	1216157	34.698	ug/ml		99

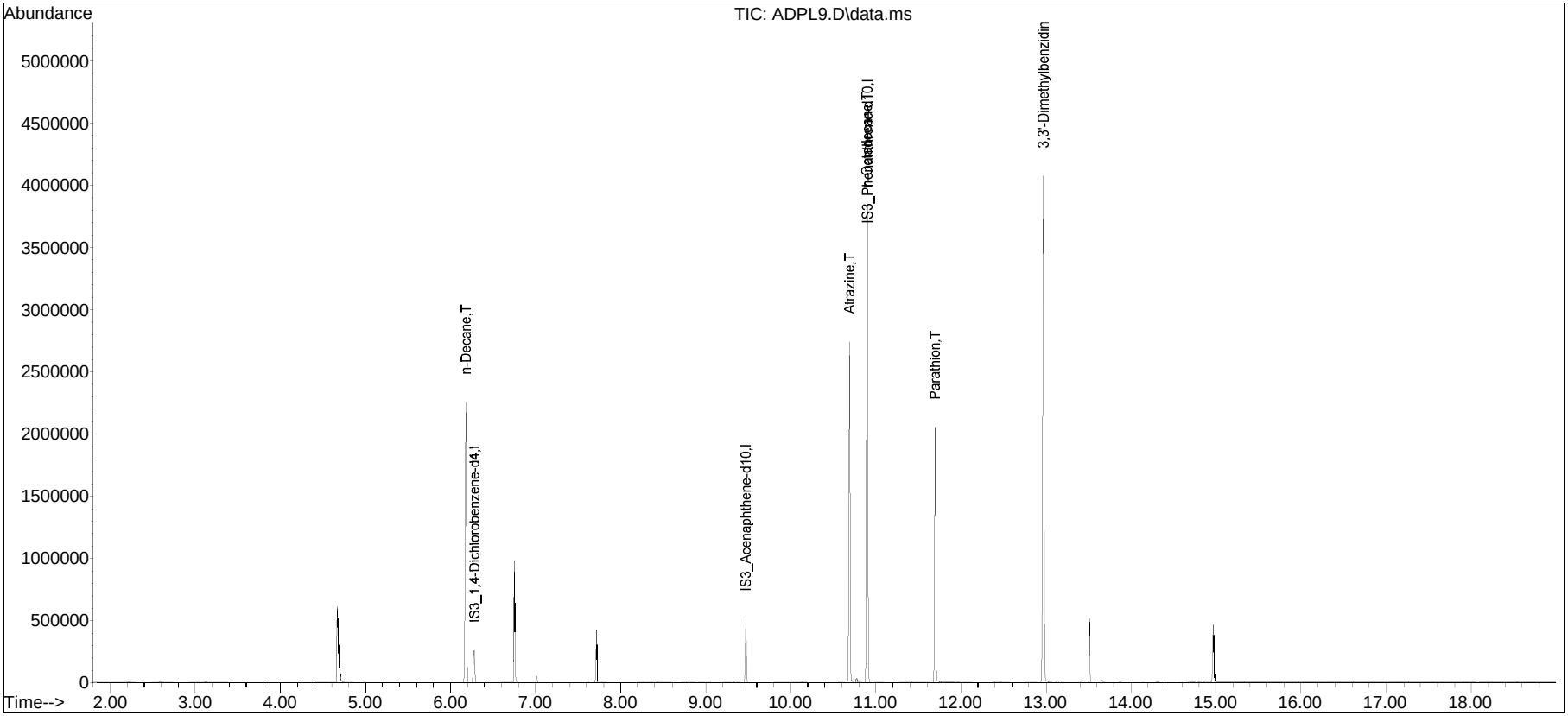
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\230902lviical\
Data File : ADPL9.D
Acq On : 2 Sep 2023 9:42 pm
Operator : SV106:ljg
Sample : IL2,32,,ADPL35 Lot# 10089
Misc : WG1823680,,ical
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Sep 05 11:17:08 2023
Quant Method : I:\8270\SV106\230902lviical\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 05 11:17:00 2023
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublistiical\ADPL6.D•



Manual Integration Report

Data Path	: I:\8270\SV106\230902lviica	QMethod	: FS230902SV106.m
Data File	: ADPL9.D	Operator	: SV106:ljg
Date Inj'd	: 9/2/2023 9:42 pm	Instrument	: SV 106
Sample	: IL2,32,,ADPL35 Lot# 10089	Quant Date	: 9/5/2023 11:17 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\230902lviical\
Data File : ADPL8.D
Acq On : 2 Sep 2023 10:05 pm
Operator : SV106:ljg
Sample : IL3,32,,ADPL15 Lot# 10090
Misc : WG1823680,,ical
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Sep 05 11:16:58 2023
Quant Method : I:\8270\SV106\230902lviical\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 05 11:16:50 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\230902lviical\ADPL6.D
Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	6.281	152	44182	4.000	ug/ml	0.00
Standard Area 1 = 45289			Recovery = 97.56%			
85) IS3_Acenaphthene-d10	9.475	164	92814	4.000	ug/ml	0.00
Standard Area 1 = 91334			Recovery = 101.62%			
99) IS3_Phenanthrene-d10	10.904	188	178276	4.000	ug/ml	# 0.00
Standard Area 1 = 180632			Recovery = 98.70%			
System Monitoring Compounds						
Target Compounds						Qvalue
33) n-Decane	6.181	57	221691	14.899	ug/ml	# 45
86) Atrazine	10.692	200	119695	14.967	ug/ml	94
100) n-Octadecane	10.898	57	313713	15.310	ug/ml	# 1
101) Parathion	11.698	109	67318	16.088	ug/ml	# 92
102) 3,3'-Dimethylbenzidine	12.969	212	479316	14.741	ug/ml	99

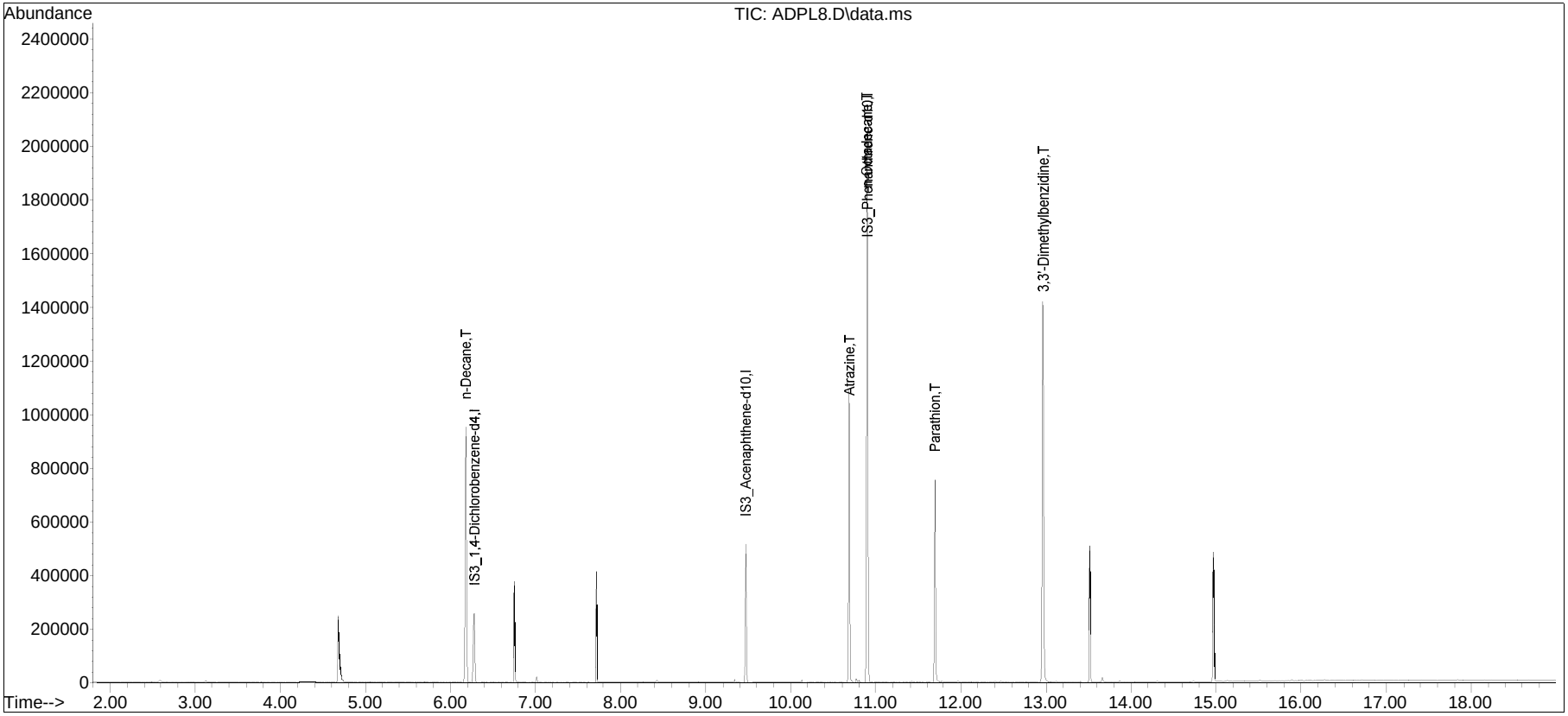
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\230902lviical\
Data File : ADPL8.D
Acq On : 2 Sep 2023 10:05 pm
Operator : SV106:ljg
Sample : IL3,32,,ADPL15 Lot# 10090
Misc : WG1823680,,ical
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Sep 05 11:16:58 2023
Quant Method : I:\8270\SV106\230902lviical\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 05 11:16:50 2023
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublistiical\ADPL6.D•



Manual Integration Report

Data Path	: I:\8270\SV106\230902lviica	QMethod	: FS230902SV106.m
Data File	: ADPL8.D	Operator	: SV106:ljg
Date Inj'd	: 9/2/2023 10:05 pm	Instrument	: SV 106
Sample	: IL3,32,,ADPL15 Lot# 10090	Quant Date	: 9/5/2023 11:16 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\230902lviical\
Data File : ADPL7.D
Acq On : 2 Sep 2023 10:29 pm
Operator : SV106:ljg
Sample : IL4,32,,ADPL10 Lot# 10091
Misc : WG1823680,,ical
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Sep 05 11:16:47 2023
Quant Method : I:\8270\SV106\230902lviical\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 05 11:16:40 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\230902lviical\ADPL6.D
Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	6.281	152	45363	4.000	ug/ml	0.00
Standard Area 1 = 45289			Recovery =	100.16%		
85) IS3_Acenaphthene-d10	9.475	164	95670	4.000	ug/ml	0.00
Standard Area 1 = 91334			Recovery =	104.75%		
99) IS3_Phenanthrene-d10	10.904	188	190020	4.000	ug/ml	# 0.00
Standard Area 1 = 180632			Recovery =	105.20%		
System Monitoring Compounds						
Target Compounds						Qvalue
33) n-Decane	6.181	57	149227	9.768	ug/ml#	45
86) Atrazine	10.686	200	82035	9.951	ug/ml	93
100) n-Octadecane	10.898	57	216661	9.920	ug/ml#	1
101) Parathion	11.698	109	44256	9.923	ug/ml#	91
102) 3,3'-Dimethylbenzidine	12.963	212	312930	9.299	ug/ml	99

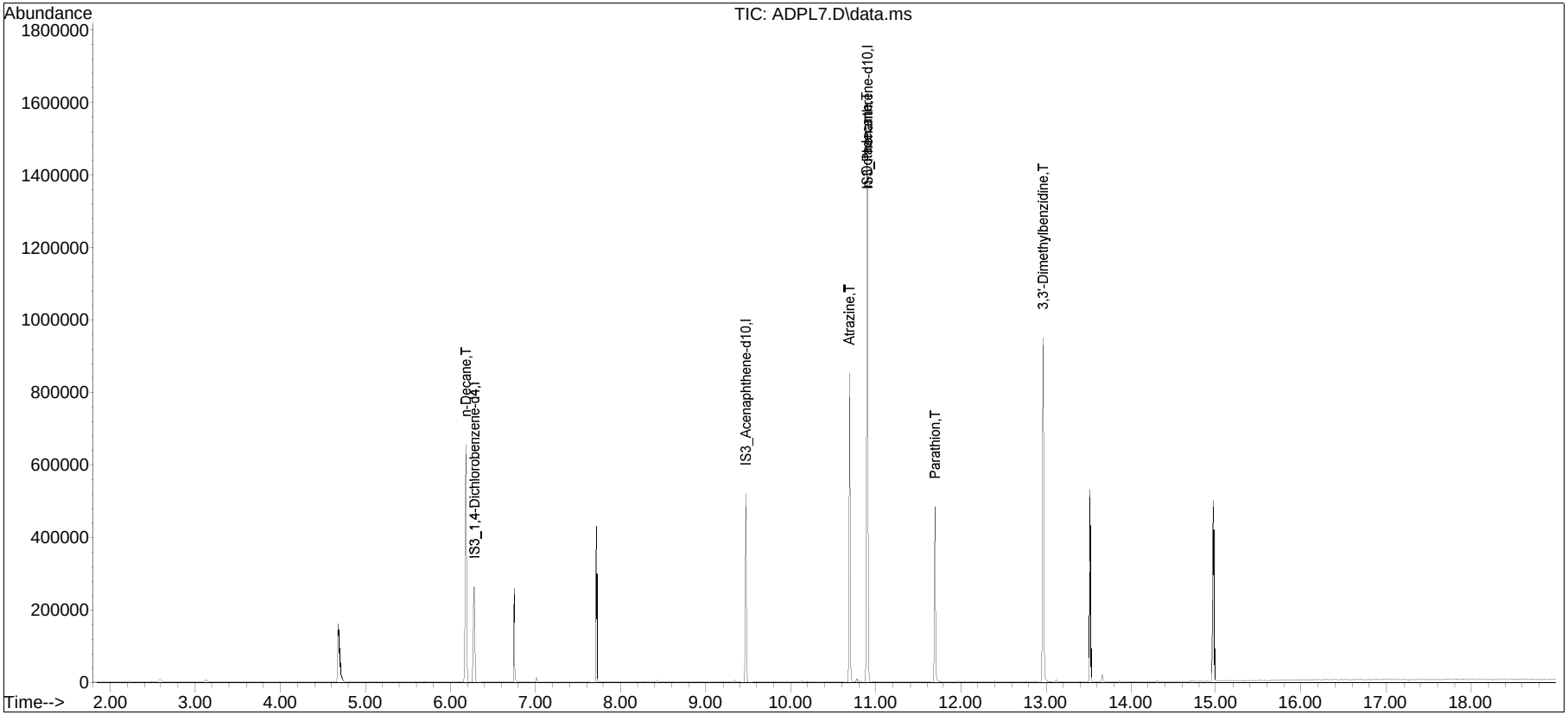
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\230902lviical\
Data File : ADPL7.D
Acq On : 2 Sep 2023 10:29 pm
Operator : SV106:ljg
Sample : IL4,32,,ADPL10 Lot# 10091
Misc : WG1823680,,ical
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Sep 05 11:16:47 2023
Quant Method : I:\8270\SV106\230902lviical\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 05 11:16:40 2023
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublistiical\ADPL6.D•



Manual Integration Report

Data Path	: I:\8270\SV106\230902lviica	QMethod	: FS230902SV106.m
Data File	: ADPL7.D	Operator	: SV106:ljg
Date Inj'd	: 9/2/2023 10:29 pm	Instrument	: SV 106
Sample	: IL4,32,,ADPL10 Lot# 10091	Quant Date	: 9/5/2023 11:16 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\230902lviical\
Data File : ADPL6.D
Acq On : 2 Sep 2023 10:53 pm
Operator : SV106:ljg
Sample : IL5,32,,ADPL5 Lot# 10092
Misc : WG1823680,,ical
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Sep 05 11:16:38 2023
Quant Method : I:\8270\SV106\230902lviical\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 05 11:16:31 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\230902lviical\ADPL6.D
Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	6.281	152	45289	4.000	ug/ml	0.00
Standard Area 1 = 45289			Recovery =	100.00%		
85) IS3_Acenaphthene-d10	9.475	164	91334	4.000	ug/ml	0.00
Standard Area 1 = 91334			Recovery =	100.00%		
99) IS3_Phenanthrene-d10	10.904	188	180632	4.000	ug/ml	0.00
Standard Area 1 = 180632			Recovery =	100.00%		
System Monitoring Compounds						
Target Compounds						Qvalue
33) n-Decane	6.181	57	75644	4.960	ug/ml#	44
86) Atrazine	10.686	200	38986	4.954	ug/ml	92
100) n-Octadecane	10.898	57	105370	5.075	ug/ml#	1
101) Parathion	11.698	109	19294	4.551	ug/ml#	87
102) 3,3'-Dimethylbenzidine	12.963	212	134158	4.575	ug/ml	99

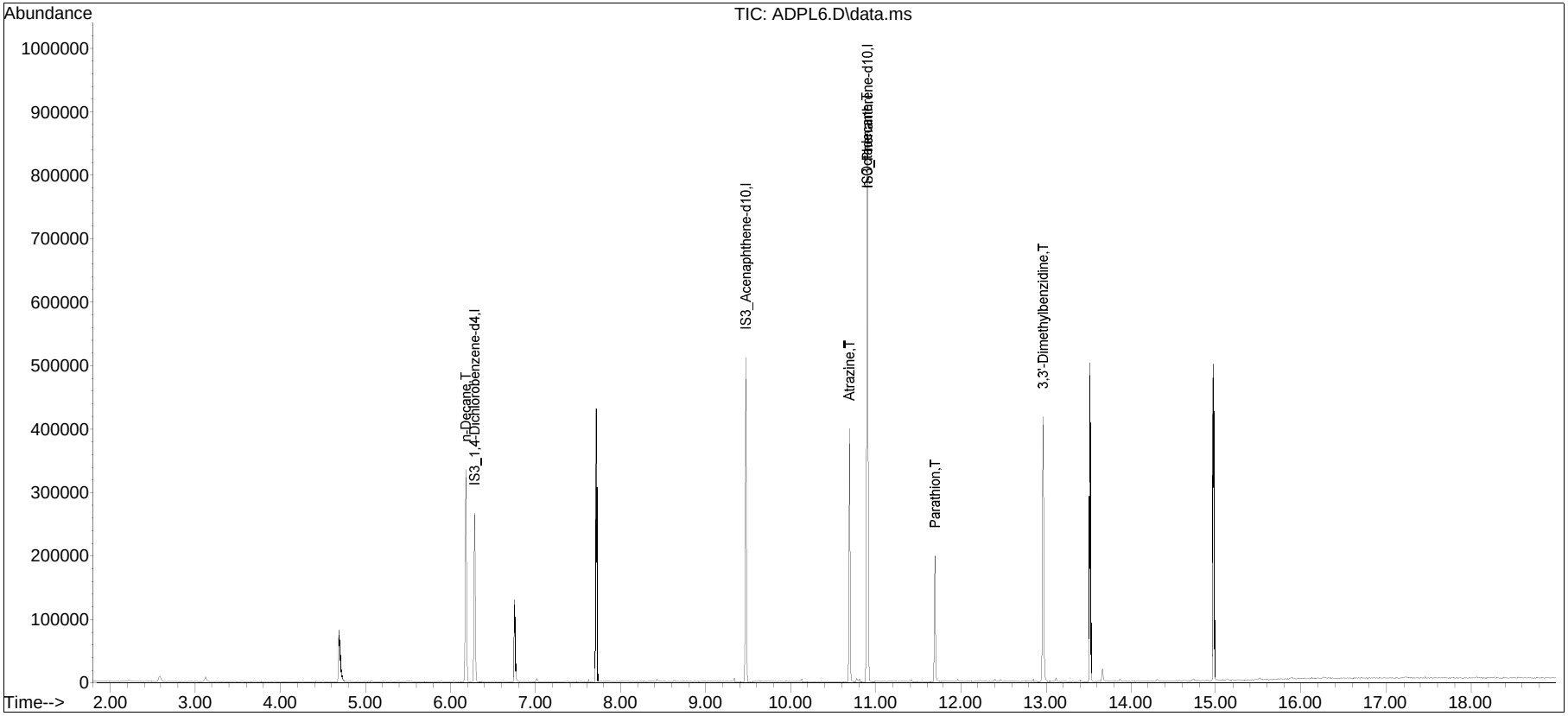
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\230902lviical\
Data File : ADPL6.D
Acq On : 2 Sep 2023 10:53 pm
Operator : SV106:ljg
Sample : IL5,32,,ADPL5 Lot# 10092
Misc : WG1823680,,ical
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Sep 05 11:16:38 2023
Quant Method : I:\8270\SV106\230902lviical\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 05 11:16:31 2023
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublistiical\ADPL6.D•



Manual Integration Report

Data Path	: I:\8270\SV106\230902lviica	QMethod	: FS230902SV106.m
Data File	: ADPL6.D	Operator	: SV106:ljg
Date Inj'd	: 9/2/2023 10:53 pm	Instrument	: SV 106
Sample	: IL5,32,,ADPL5 Lot# 10092	Quant Date	: 9/5/2023 11:16 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\230902lviical\
Data File : ADPL5.D
Acq On : 2 Sep 2023 11:17 pm
Operator : SV106:ljg
Sample : IL6,32,,ADPL3 Lot# 10093
Misc : WG1823680,,ical
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Sep 05 11:16:29 2023
Quant Method : I:\8270\SV106\230902lviical\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 05 11:16:22 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\230902lviical\ADPL6.D
Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	6.281	152	45928	4.000	ug/ml	0.00
Standard Area 1 = 45289			Recovery =	101.41%		
85) IS3_Acenaphthene-d10	9.475	164	94608	4.000	ug/ml	0.00
Standard Area 1 = 91334			Recovery =	103.58%		
99) IS3_Phenanthrene-d10	10.904	188	186857	4.000	ug/ml	# 0.00
Standard Area 1 = 180632			Recovery =	103.45%		
System Monitoring Compounds						
Target Compounds						Qvalue
33) n-Decane	6.181	57	46099	2.980	ug/ml	# 44
86) Atrazine	10.686	200	23187	2.844	ug/ml	90
100) n-Octadecane	10.898	57	64086	2.984	ug/ml	# 1
101) Parathion	11.698	109	11888	2.711	ug/ml	# 88
102) 3,3'-Dimethylbenzidine	12.963	212	75658	2.810	ug/ml	98

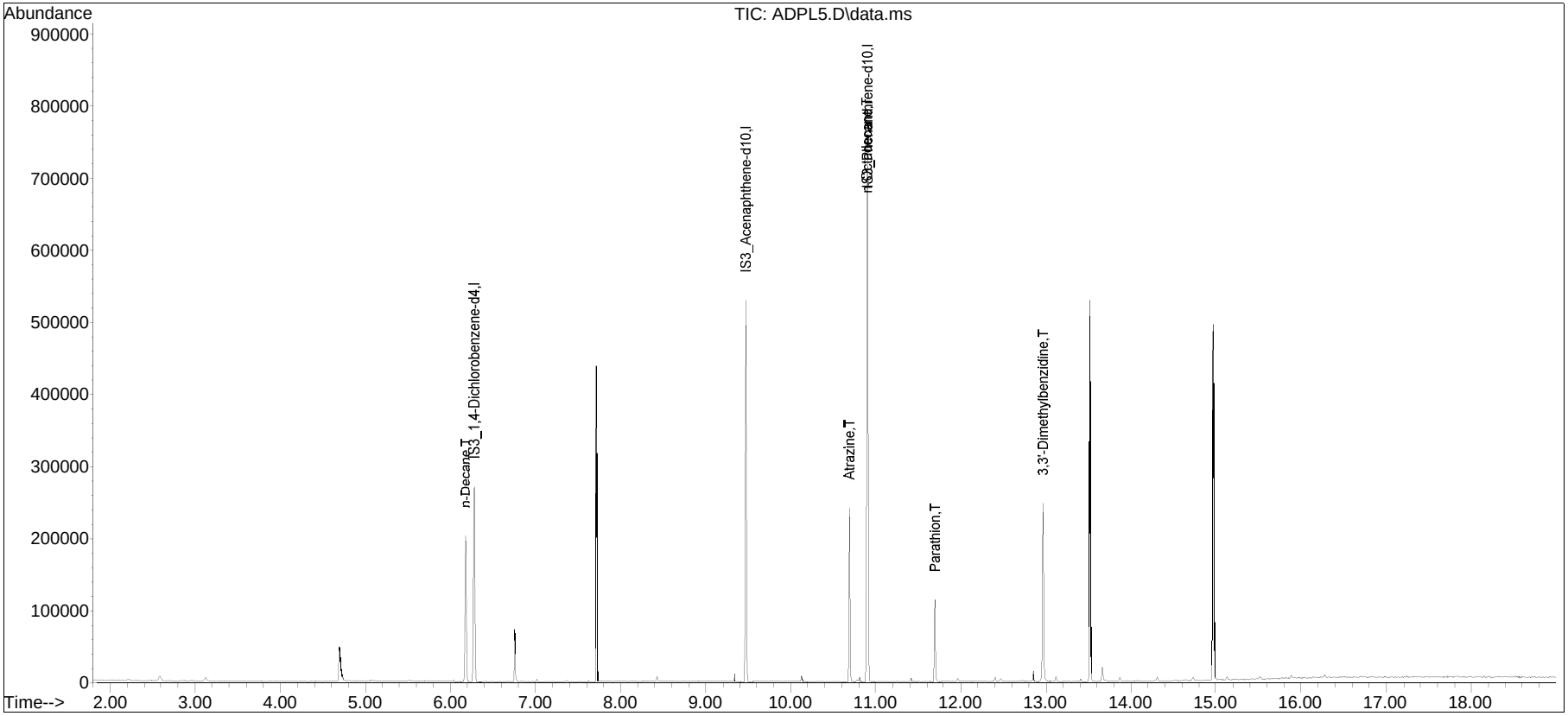
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\230902lviical\
Data File : ADPL5.D
Acq On : 2 Sep 2023 11:17 pm
Operator : SV106:ljg
Sample : IL6,32,,ADPL3 Lot# 10093
Misc : WG1823680,,ical
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Sep 05 11:16:29 2023
Quant Method : I:\8270\SV106\230902lviical\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 05 11:16:22 2023
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublistiical\ADPL6.D•



Manual Integration Report

Data Path	: I:\8270\SV106\230902lviica	QMethod	: FS230902SV106.m
Data File	: ADPL5.D	Operator	: SV106:ljg
Date Inj'd	: 9/2/2023 11:17 pm	Instrument	: SV 106
Sample	: IL6,32,,ADPL3 Lot# 10093	Quant Date	: 9/5/2023 11:16 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\230902lviical\
Data File : ADPL4.D
Acq On : 2 Sep 2023 11:40 pm
Operator : SV106:ljg
Sample : IL7,32,,ADPL2 Lot# 10094
Misc : WG1823680,,ical
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Sep 05 11:16:19 2023
Quant Method : I:\8270\SV106\230902lviical\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 05 11:16:13 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\230902lviical\ADPL6.D
Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
32) IS3_1,4-Dichlorobenzen...	6.281	152	46329	4.000	ug/ml		0.00
Standard Area 1 = 45289			Recovery =	102.30%			
85) IS3_Acenaphthene-d10	9.475	164	94241	4.000	ug/ml		0.00
Standard Area 1 = 91334			Recovery =	103.18%			
99) IS3_Phenanthrene-d10	10.904	188	191370	4.000	ug/ml	#	0.00
Standard Area 1 = 180632			Recovery =	105.94%			
System Monitoring Compounds							
Target Compounds							Qvalue
33) n-Decane	6.181	57	30285	1.941	ug/ml	#	44
86) Atrazine	10.686	200	15030	1.851	ug/ml		96
100) n-Octadecane	10.898	57	40381	1.836	ug/ml	#	1
101) Parathion	11.698	109	7445	1.657	ug/ml	#	88
102) 3,3'-Dimethylbenzidine	12.963	212	48368	2.016	ug/ml		98

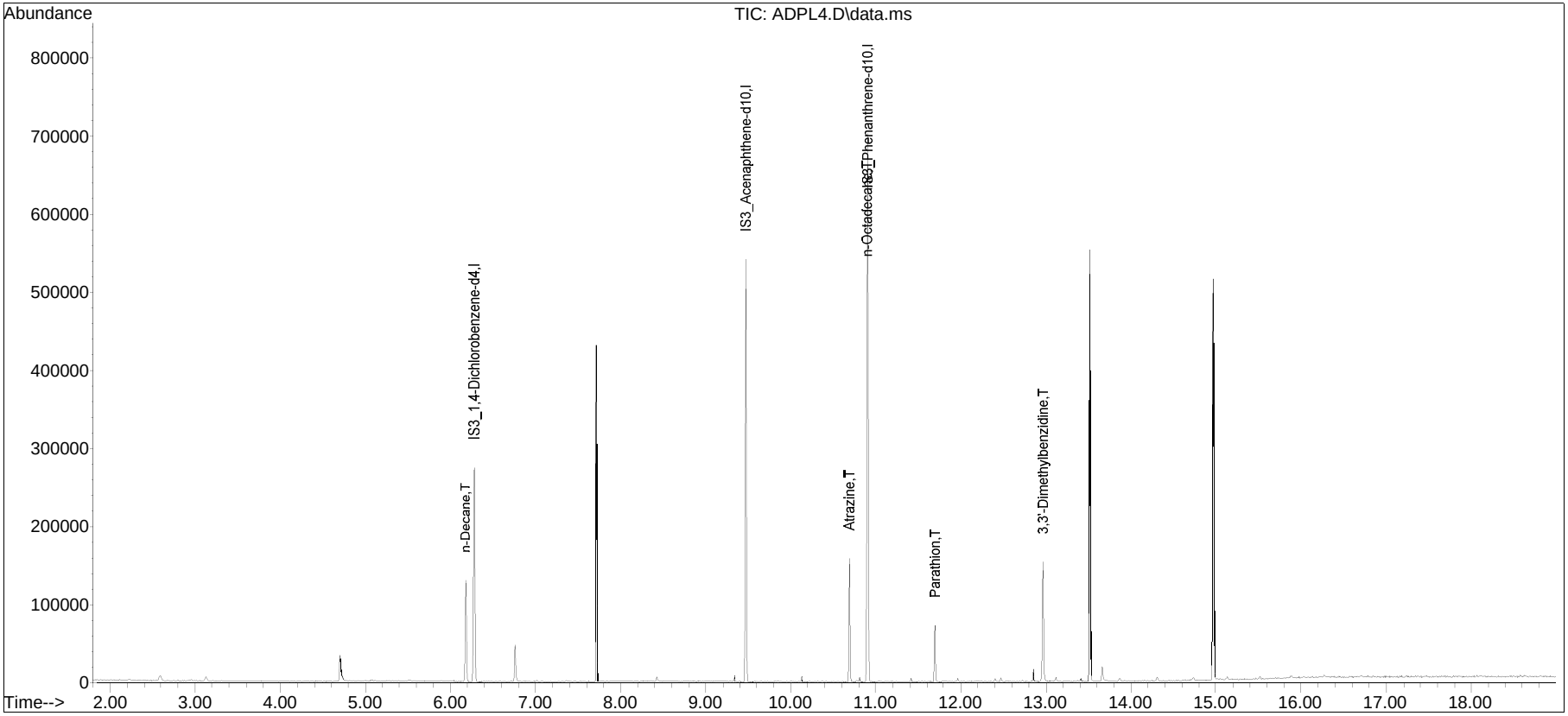
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\230902lviical\
Data File : ADPL4.D
Acq On : 2 Sep 2023 11:40 pm
Operator : SV106:ljg
Sample : IL7,32,,ADPL2 Lot# 10094
Misc : WG1823680,,ical
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Sep 05 11:16:19 2023
Quant Method : I:\8270\SV106\230902lviical\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 05 11:16:13 2023
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublistiical\ADPL6.D•



Manual Integration Report

Data Path	: I:\8270\SV106\230902lviica	QMethod	: FS230902SV106.m
Data File	: ADPL4.D	Operator	: SV106:ljg
Date Inj'd	: 9/2/2023 11:40 pm	Instrument	: SV 106
Sample	: IL7,32,,ADPL2 Lot# 10094	Quant Date	: 9/5/2023 11:16 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\230902lviical\
Data File : ADPL3.D
Acq On : 3 Sep 2023 12:04 am
Operator : SV106:ljg
Sample : IL8,32,,ADPL1 Lot# 10095
Misc : WG1823680,,ical
ALS Vial : 30 Sample Multiplier: 1

Quant Time: Sep 05 11:16:10 2023
Quant Method : I:\8270\SV106\230902lviical\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 05 11:16:03 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\230902lviical\ADPL6.D
Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	6.281	152	47341	4.000	ug/ml	0.00
Standard Area 1 = 45289			Recovery =	104.53%		
85) IS3_Acenaphthene-d10	9.475	164	93544	4.000	ug/ml	0.00
Standard Area 1 = 91334			Recovery =	102.42%		
99) IS3_Phenanthrene-d10	10.904	188	191607	4.000	ug/ml	0.00
Standard Area 1 = 180632			Recovery =	106.08%		
System Monitoring Compounds						
Target Compounds						Qvalue
33) n-Decane	6.181	57	16304	1.023	ug/ml#	44
86) Atrazine	10.686	200	7705	0.956	ug/ml	92
100) n-Octadecane	10.898	57	21215	0.963	ug/ml#	1
101) Parathion	11.698	109	4036	0.897	ug/ml#	80
102) 3,3'-Dimethylbenzidine	12.963	212	18633	1.203	ug/ml	98

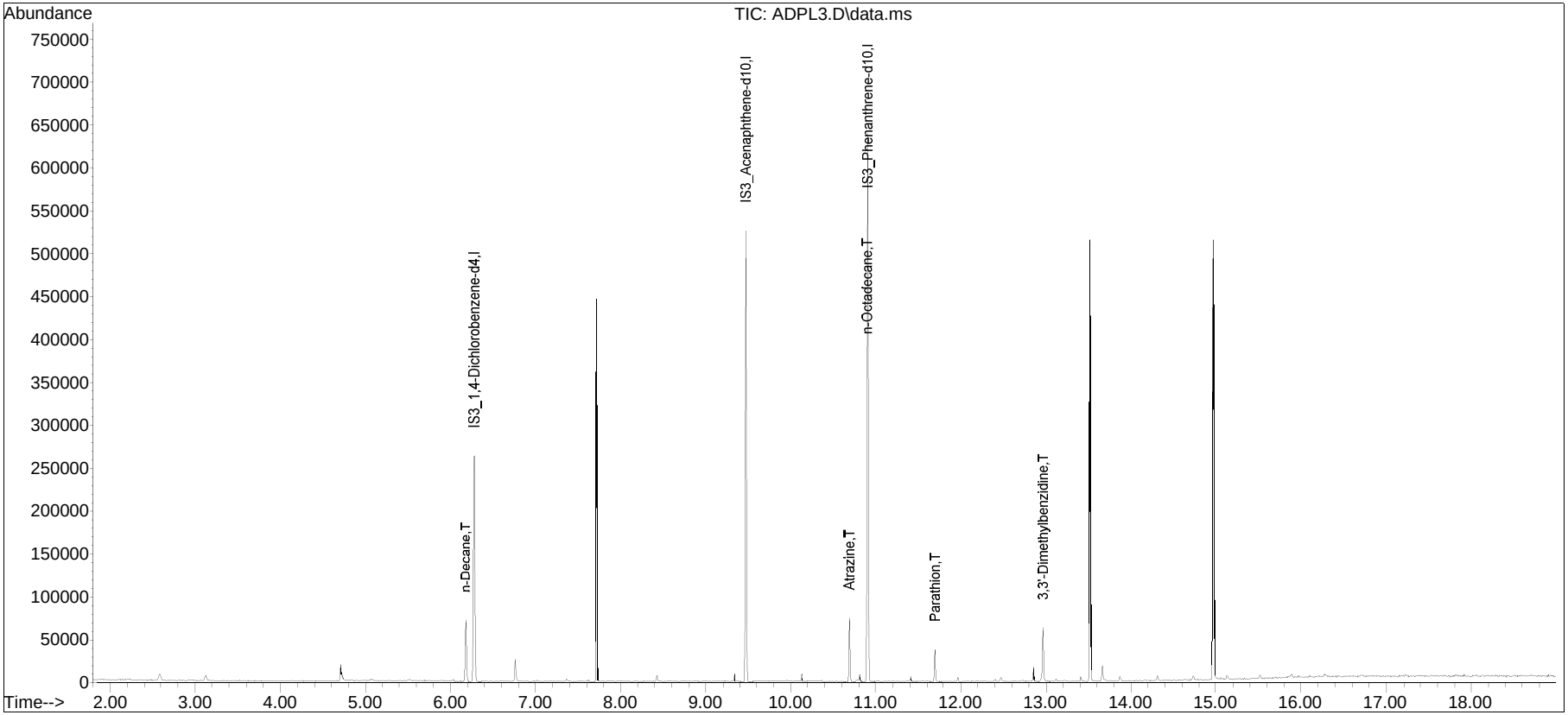
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\230902lviical\
Data File : ADPL3.D
Acq On : 3 Sep 2023 12:04 am
Operator : SV106:ljg
Sample : IL8,32,,ADPL1 Lot# 10095
Misc : WG1823680,,ical
ALS Vial : 30 Sample Multiplier: 1

Quant Time: Sep 05 11:16:10 2023
Quant Method : I:\8270\SV106\230902lviical\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 05 11:16:03 2023
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublistiical\ADPL6.D•



Manual Integration Report

Data Path	: I:\8270\SV106\230902lviica	QMethod	: FS230902SV106.m
Data File	: ADPL3.D	Operator	: SV106:ljg
Date Inj'd	: 9/3/2023 12:04 am	Instrument	: SV 106
Sample	: IL8,32,,ADPL1 Lot# 10095	Quant Date	: 9/5/2023 11:16 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\230902lviical\
Data File : ADPL2.D
Acq On : 3 Sep 2023 12:28 am
Operator : SV106:ljg
Sample : IL9,32,,ADPL0.4 Lot# 10096
Misc : WG1823680,,ical
ALS Vial : 31 Sample Multiplier: 1

Quant Time: Sep 05 11:16:00 2023
Quant Method : I:\8270\SV106\230902lviical\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 05 11:15:53 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\230902lviical\ADPL6.D
Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	6.281	152	45582	4.000	ug/ml	0.00
Standard Area 1 = 45289			Recovery =	100.65%		
85) IS3_Acenaphthene-d10	9.475	164	97797	4.000	ug/ml	0.00
Standard Area 1 = 91334			Recovery =	107.08%		
99) IS3_Phenanthrene-d10	10.904	188	190089	4.000	ug/ml #	0.00
Standard Area 1 = 180632			Recovery =	105.24%		
System Monitoring Compounds						
Target Compounds						Qvalue
33) n-Decane	6.181	57	6484	0.422	ug/ml#	41
86) Atrazine	10.686	200	3408	0.404	ug/ml#	83
100) n-Octadecane	10.898	57	8858	0.405	ug/ml#	1
101) Parathion	11.692	109	1694	0.380	ug/ml#	86
102) 3,3'-Dimethylbenzidine	12.963	212	4267	0.812	ug/ml	96

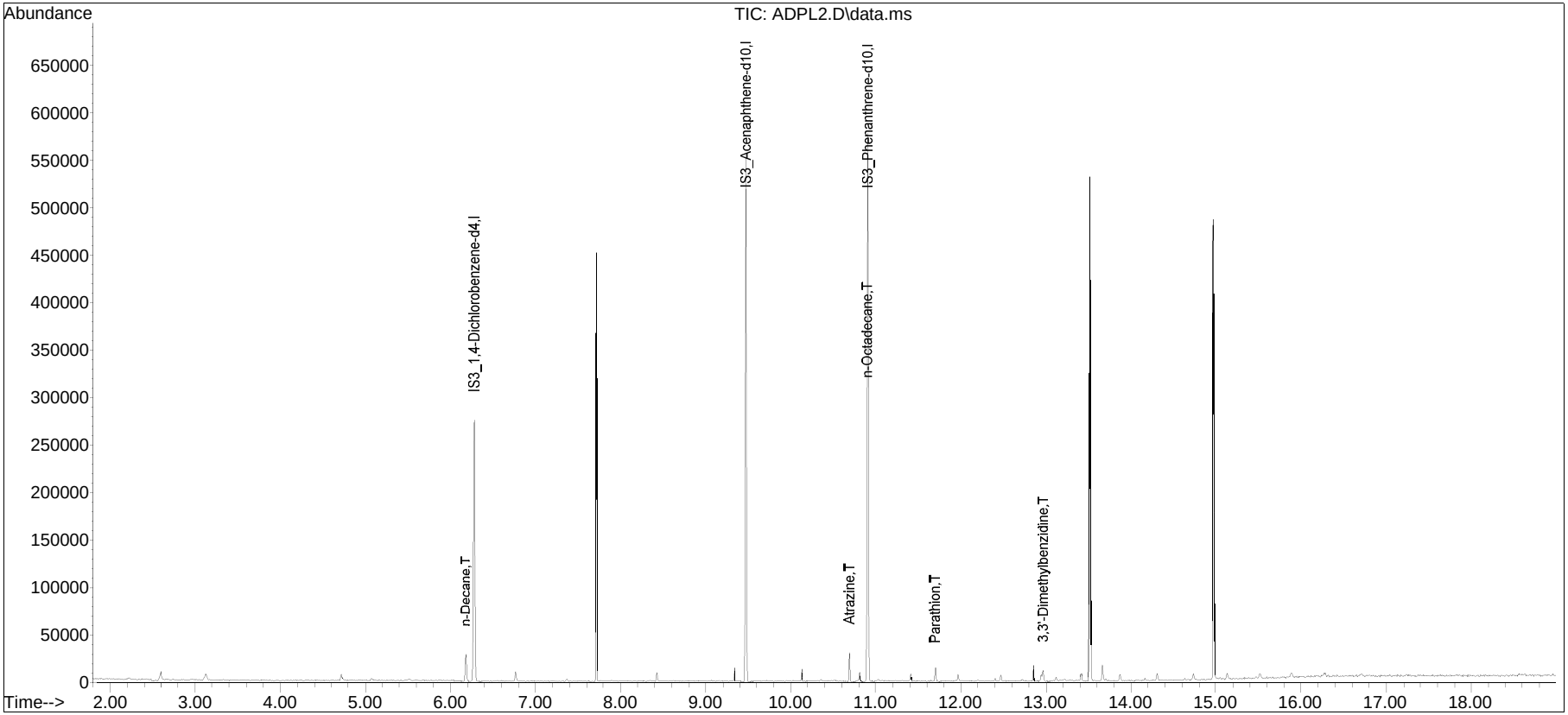
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\230902lviical\
Data File : ADPL2.D
Acq On : 3 Sep 2023 12:28 am
Operator : SV106:ljg
Sample : IL9,32,,ADPL0.4 Lot# 10096
Misc : WG1823680,,ical
ALS Vial : 31 Sample Multiplier: 1

Quant Time: Sep 05 11:16:00 2023
Quant Method : I:\8270\SV106\230902lviical\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 05 11:15:53 2023
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublistiical\ADPL6.D•



Manual Integration Report

Data Path	: I:\8270\SV106\230902lviica	QMethod	: FS230902SV106.m
Data File	: ADPL2.D	Operator	: SV106:ljg
Date Inj'd	: 9/3/2023 12:28 am	Instrument	: SV 106
Sample	: IL9,32,,ADPL0.4 Lot# 10096	Quant Date	: 9/5/2023 11:15 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\230902lviical\
Data File : ADPL1.D
Acq On : 3 Sep 2023 12:52 am
Operator : SV106:ljg
Sample : IL10,32,,ADPL0.2 Lot# 10097
Misc : WG1823680,,ical
ALS Vial : 32 Sample Multiplier: 1

Quant Time: Sep 05 11:15:40 2023
Quant Method : I:\8270\SV106\230902lviical\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 05 11:15:33 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\230902lviical\ADPL6.D
Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	6.281	152	48149	4.000	ug/ml	0.00
Standard Area 1 = 45289			Recovery =	106.31%		
85) IS3_Acenaphthene-d10	9.475	164	90114	4.000	ug/ml	0.00
Standard Area 1 = 91334			Recovery =	98.66%		
99) IS3_Phenanthrene-d10	10.904	188	184126	4.000	ug/ml	# 0.00
Standard Area 1 = 180632			Recovery =	101.93%		
System Monitoring Compounds						
Target Compounds						Qvalue
33) n-Decane	6.181	57	3260	0.201	ug/ml#	40
86) Atrazine	10.686	200	1573	0.203	ug/ml#	77
100) n-Octadecane	10.898	57	4310	0.204	ug/ml#	1
101) Parathion	11.692	109	841	0.195	ug/ml#	68
102) 3,3'-Dimethylbenzidine	12.957	212	638	0.713	ug/ml#	62

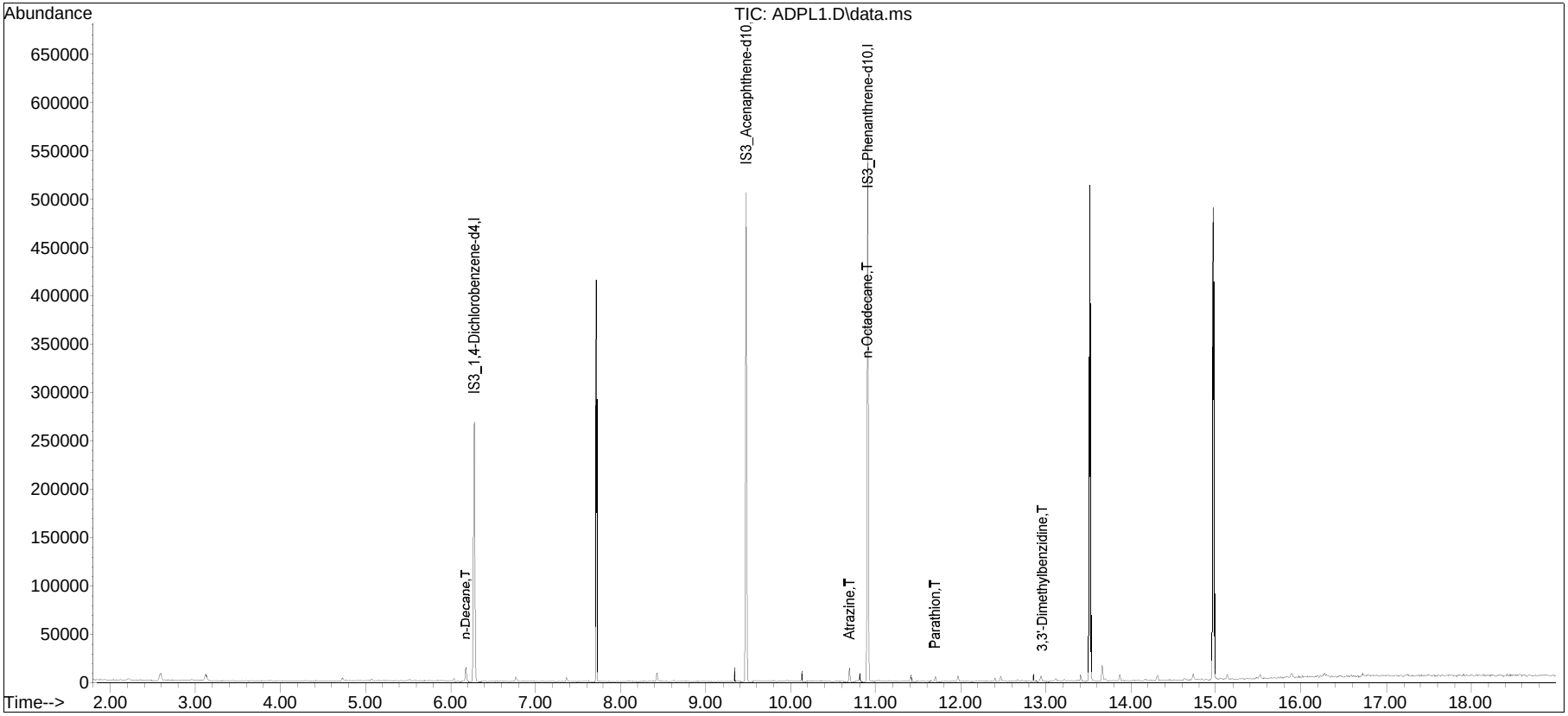
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\230902lviical\
Data File : ADPL1.D
Acq On : 3 Sep 2023 12:52 am
Operator : SV106:ljg
Sample : IL10,32,,ADPL0.2 Lot# 10097
Misc : WG1823680,,ical
ALS Vial : 32 Sample Multiplier: 1

Quant Time: Sep 05 11:15:40 2023
Quant Method : I:\8270\SV106\230902lviical\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 05 11:15:33 2023
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublistiical\ADPL6.D•



Manual Integration Report

Data Path	: I:\8270\SV106\230902lviica	QMethod	: FS230902SV106.m
Data File	: ADPL1.D	Operator	: SV106:ljg
Date Inj'd	: 9/3/2023 12:52 am	Instrument	: SV 106
Sample	: IL10,32,,ADPL0.2 Lot# 1009	Quant Date	: 9/5/2023 11:15 am

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

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV106\230902lviical\
Data File : ADPICV.D
Acq On : 3 Sep 2023 1:15 am
Operator : SV106:ljg
Sample : CQICV3,32,,ADPICV Lot# 10099
Misc : WG1823680,,ical
ALS Vial : 33 Sample Multiplier: 1

Quant Time: Sep 05 11:15:31 2023
Quant Method : I:\8270\SV106\230902lviical\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 05 11:15:23 2023
Response via : Initial Calibration

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

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(min)
32	I	IS3_1,4-Dichlorobenzene-d4		1.000	1.000	0.0	90	0.00
33	T	n-Decane		1.347	1.461	-8.5	99	0.00
85	I	IS3_Acenaphthene-d10		1.000	1.000	0.0	92	0.00
86	T	Atrazine		0.345	0.376	-9.0	101	0.00
99	I	IS3_Phenanthrene-d10		1.000	1.000	0.0	93	0.00
100	T	n-Octadecane		0.460	0.508	-10.4	101	0.00
101	T	Parathion		0.094	0.092	2.1	100	0.00
102	T	3,3'-Dimethylbenzidine	*	5.000	4.910	1.8	101	0.00

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\230902lviical\
Data File : ADPICV.D
Acq On : 3 Sep 2023 1:15 am
Operator : SV106:ljg
Sample : CQICV3,32,,ADPICV Lot# 10099
Misc : WG1823680,,ical
ALS Vial : 33 Sample Multiplier: 1

Quant Time: Sep 05 11:15:31 2023
Quant Method : I:\8270\SV106\230902lviical\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 05 11:15:23 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\230902lviical\ADPL6.D
Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
32) IS3_1,4-Dichlorobenzen...	6.281	152	40906	4.000	ug/ml		0.00
Standard Area 1 = 45289			Recovery = 90.32%				
85) IS3_Acenaphthene-d10	9.475	164	83699	4.000	ug/ml		0.00
Standard Area 1 = 91334			Recovery = 91.64%				
99) IS3_Phenanthrene-d10	10.904	188	168291	4.000	ug/ml	#	0.00
Standard Area 1 = 180632			Recovery = 93.17%				
System Monitoring Compounds							
Target Compounds							Qvalue
33) n-Decane	6.181	57	74725	5.424	ug/ml	#	44
86) Atrazine	10.686	200	39360	5.458	ug/ml		92
100) n-Octadecane	10.898	57	106826	5.523	ug/ml	#	1
101) Parathion	11.698	109	19365	4.902	ug/ml	#	87
102) 3,3'-Dimethylbenzidine	12.963	212	135784	4.910	ug/ml		98

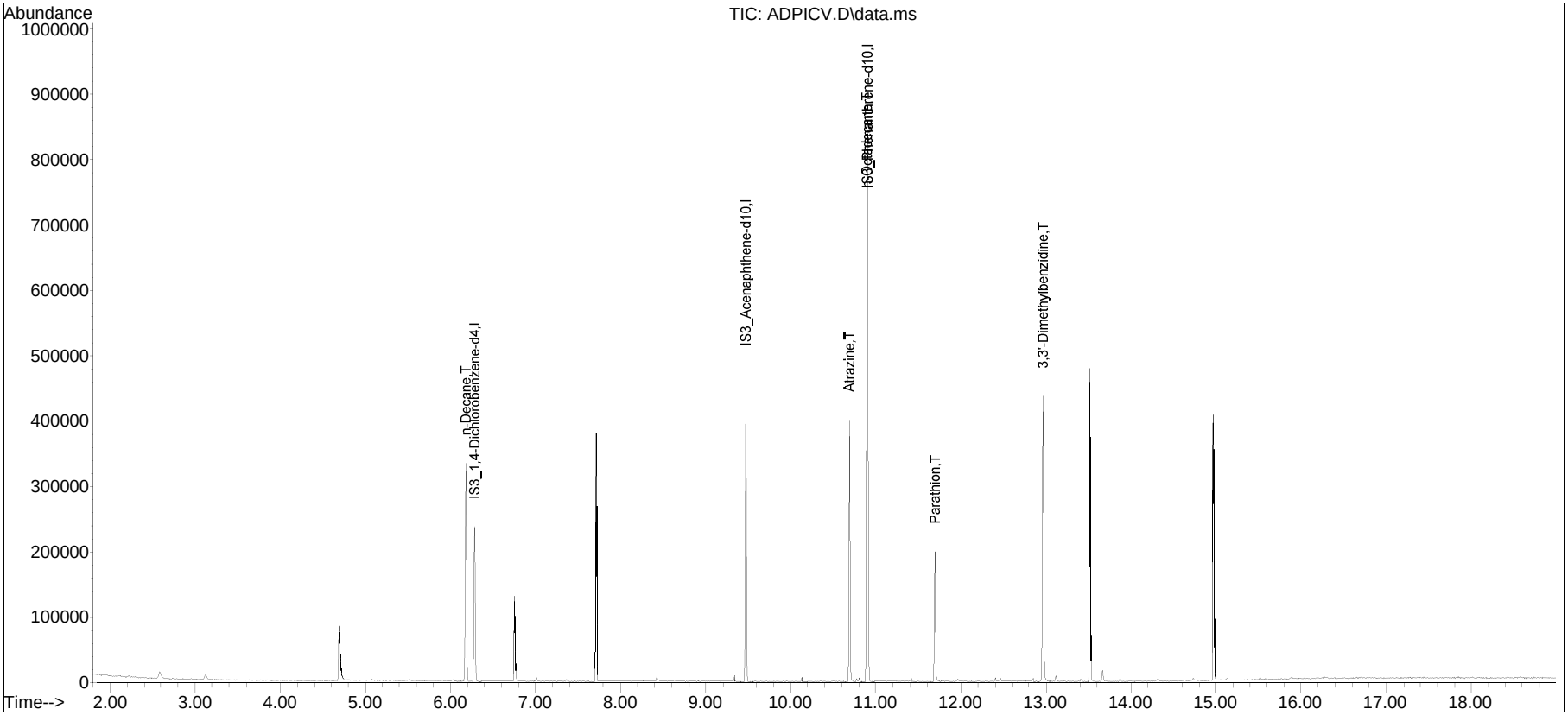
(#) = qualifier out of range (m) = manual integration (+) = signals summed

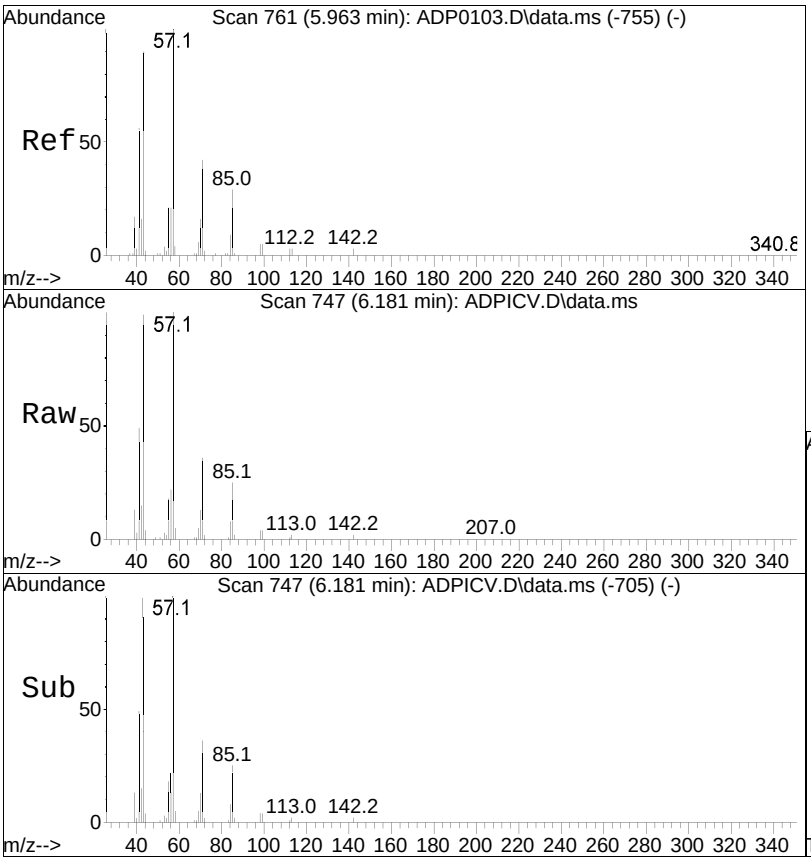
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\230902lviical\
Data File : ADPICV.D
Acq On : 3 Sep 2023 1:15 am
Operator : SV106:ljg
Sample : CQICV3,32,,ADPICV Lot# 10099
Misc : WG1823680,,ical
ALS Vial : 33 Sample Multiplier: 1

Quant Time: Sep 05 11:15:31 2023
Quant Method : I:\8270\SV106\230902lviical\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 05 11:15:23 2023
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublistiical\ADPL6.D•

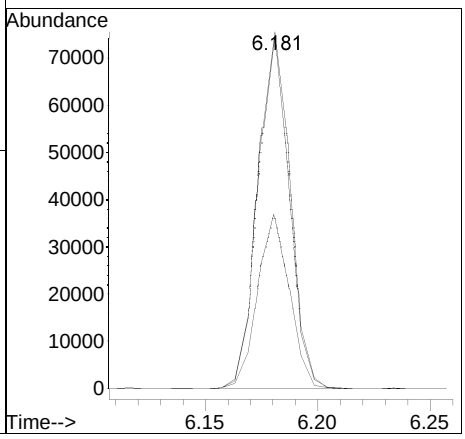


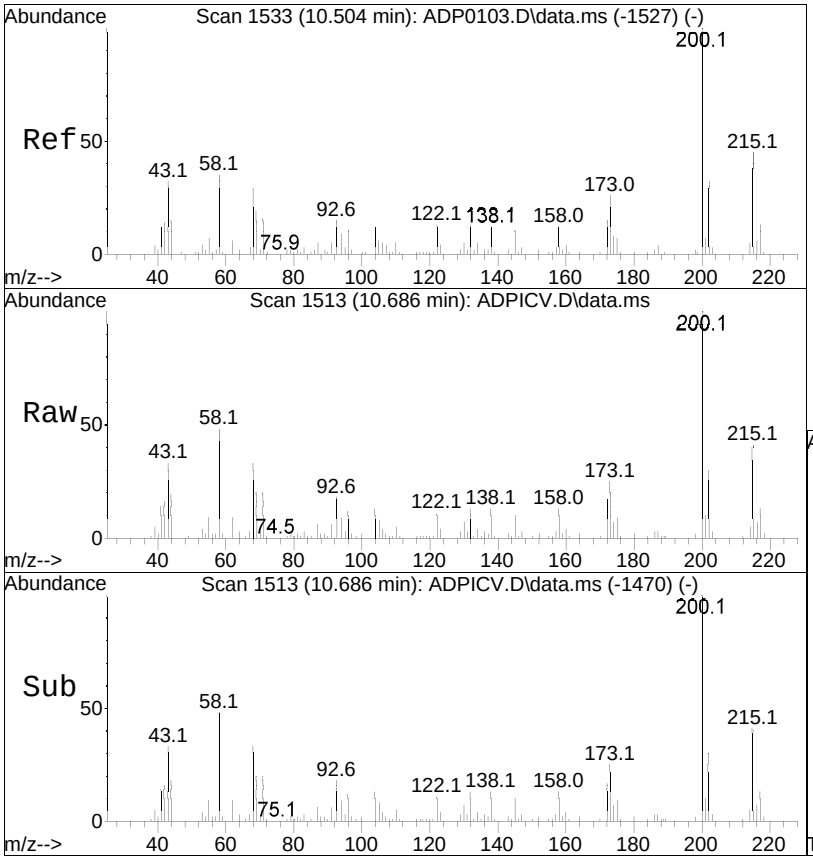


#33
n-Decane
Concen: 5.42 ug/ml
RT: 6.181 min Scan# 747
Delta R.T. -0.000 min
Lab File: ADPICV.D
Acq: 3 Sep 2023 1:15 am

Tgt Ion: 57 Resp: 74725

Ion	Ratio	Lower	Upper
57	100		
43	96.2	0.2	0.2#
41	48.6	0.2	0.2#

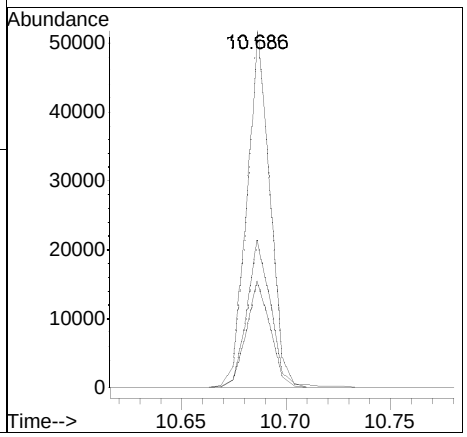


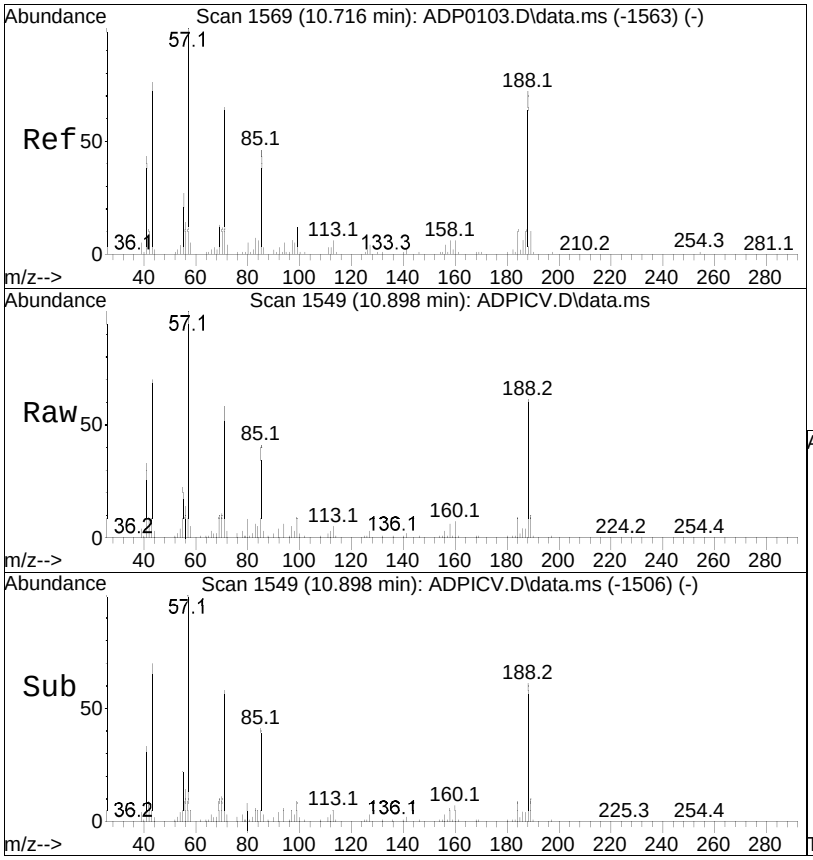


#86
Atrazine
Concen: 5.46 ug/ml
RT: 10.686 min Scan# 1513
Delta R.T. 0.000 min
Lab File: ADPICV.D
Acq: 3 Sep 2023 1:15 am

Tgt Ion:200 Resp: 39360

Ion	Ratio	Lower	Upper
200	100		
202	31.1	25.8	38.6
215	42.4	40.2	60.4

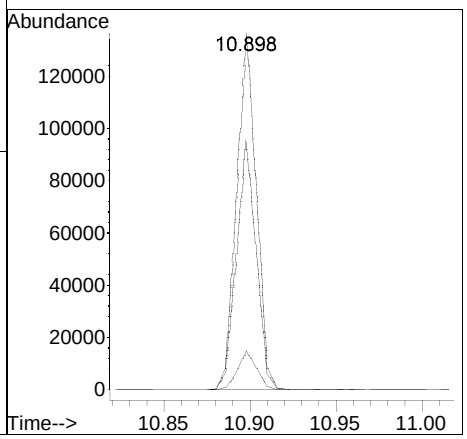


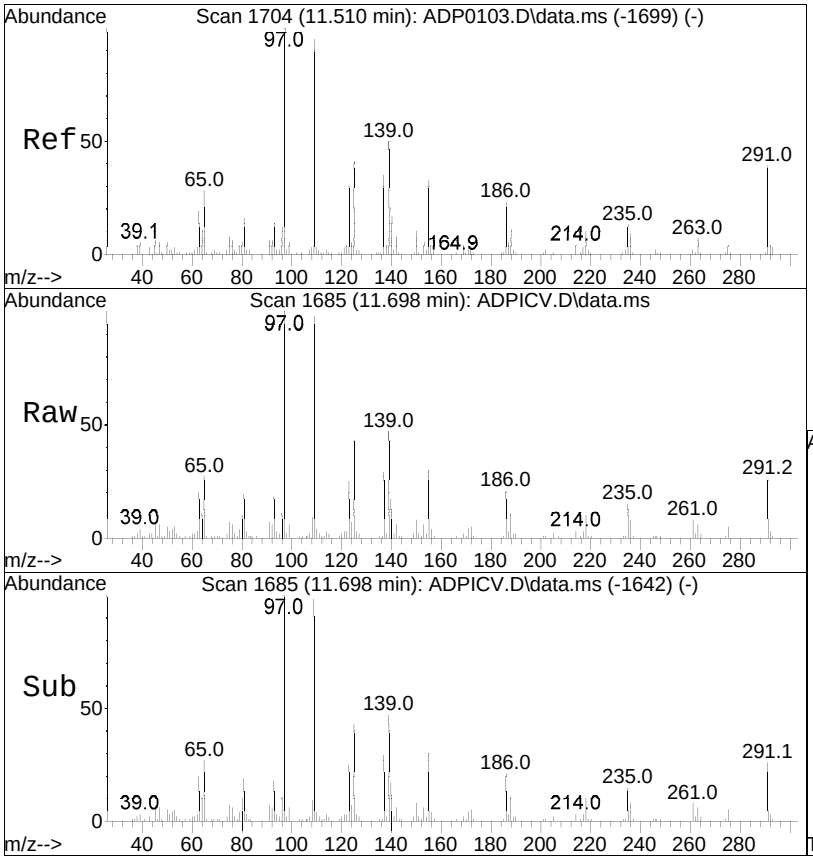


#100
n-Octadecane
Concen: 5.52 ug/ml
RT: 10.898 min Scan# 1549
Delta R.T. 0.000 min
Lab File: ADPICV.D
Acq: 3 Sep 2023 1:15 am

Tgt Ion: 57 Resp: 106826

Ion	Ratio	Lower	Upper
57	100		
43	69.9	9.0	13.6#
70	10.7	0.2	0.2#

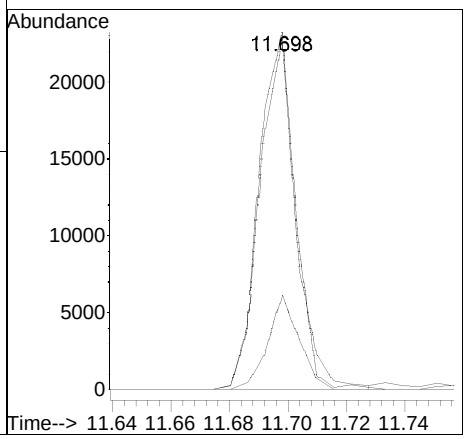


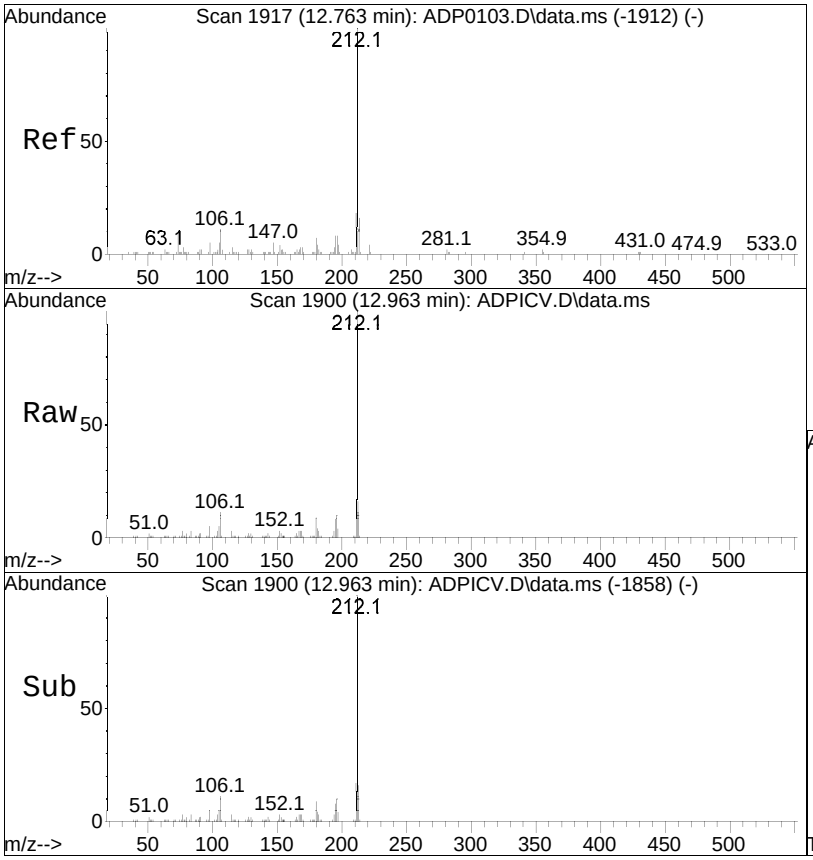


#101
Parathion
Concen: 4.90 ug/ml
RT: 11.698 min Scan# 1685
Delta R.T. 0.000 min
Lab File: ADPICV.D
Acq: 3 Sep 2023 1:15 am

Tgt Ion:109 Resp: 19365

Ion	Ratio	Lower	Upper
109	100		
97	102.7	87.4	131.2
291	23.6	34.2	51.2#

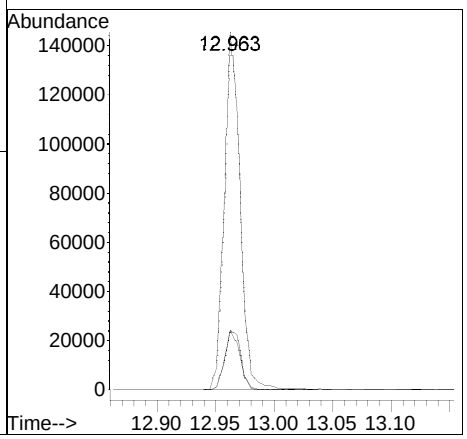




#102
3,3'-Dimethylbenzidine
Concen: 4.91 ug/ml
RT: 12.963 min Scan# 1900
Delta R.T. -0.000 min
Lab File: ADPICV.D
Acq: 3 Sep 2023 1:15 am

Tgt Ion:212 Resp: 135784

Ion	Ratio	Lower	Upper
212	100		
211	17.1	12.9	19.3
213	16.2	13.2	19.8



Manual Integration Report

Data Path	: I:\8270\SV106\230902lviica	QMethod	: FS230902SV106.m
Data File	: ADPICV.D	Operator	: SV106:ljg
Date Inj'd	: 9/3/2023 1:15 am	Instrument	: SV 106
Sample	: CQICV3,32,,ADPICV Lot# 100	Quant Date	: 9/5/2023 11:15 am

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

Evaluate Relative Error Report SV 106

Method Path : I:\8270\SV106\230902lviical\
Method File : FS230902SV106.m
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Tue Sep 05 11:32:08 2023

	COMPOUND	CalFit	Units	TrueMid	MidConc	%RE	TrueLow	LowConc	%RE
36 T	Benzoic Acid	L	ug/ml	5.0	4.546	-9.1	3.00	3.294	9.8
47 T	2-Nitroaniline	L	ug/ml	5.0	4.282	-14.4	1.00	1.228	22.8
48 T	1,4-Dinitrobenzene	L	ug/ml	5.0	4.147	-17.1	2.00	2.363	18.1
49 T	1,3-Dinitrobenzene	L	ug/ml	5.0	4.386	-12.3	2.00	2.376	18.8
52 T	2,6-Dinitrotoluene	L	ug/ml	5.0	4.231	-15.4	1.00	1.173	17.3
65 T	2,4-Dinitrophenol	L	ug/ml	5.0	4.471	-10.6	2.00	2.281	14.1
67 T	2,4-Dinitrotoluene	L	ug/ml	5.0	4.273	-14.5	1.00	1.247	24.7
68 T	4-Nitrophenol	L	ug/ml	5.0	4.234	-15.3	1.00	1.225	22.5
75 T	4,6-Dinitro-o-cresol	L	ug/ml	5.0	4.206	-15.9	2.00	2.338	16.9
81 T	Pentachlorophenol	L	ug/ml	5.0	4.268	-14.6	1.00	1.213	21.3
83 T	Dichloran	L	ug/ml	5.0	6.135	22.7	2.00	2.280	14.0
84 T	Pentachloronitrobenzene	L	ug/ml	5.0	6.488	29.8	1.00	1.018	1.8
102 T	3,3'-Dimethylbenzidine	L	ug/ml	5.0	4.575	-8.5	1.00	1.203	20.3

Calibration Correlation Report

	COMPOUND	CalFit	CoefOfDet	QuadTerm	LinTerm	Constant
36 T	Benzoic Acid	Linear	0.998169	0.000000	0.27548	-0.111375
47 T	2-Nitroaniline	Linear	0.997526	0.000000	0.203679	-0.023159
48 T	1,4-Dinitrobenzene	Linear	0.995811	0.000000	0.0939153	-0.0209123
49 T	1,3-Dinitrobenzene	Linear	0.996932	0.000000	0.110183	-0.0255947
52 T	2,6-Dinitrotoluene	Linear	0.997769	0.000000	0.163769	-0.0157845
65 T	2,4-Dinitrophenol	Linear	0.996488	0.000000	0.161957	-0.0454718
67 T	2,4-Dinitrotoluene	Linear	0.996859	0.000000	0.400144	-0.0474648
68 T	4-Nitrophenol	Linear	0.996297	0.000000	0.297605	-0.0327127
75 T	4,6-Dinitro-o-cresol	Linear	0.994623	0.000000	0.215119	-0.0628999
81 T	Pentachlorophenol	Linear	0.996515	0.000000	0.281246	-0.0315754
83 T	Dichloran	Linear	0.996757	0.000000	0.165763	-0.0413709
84 T	Pentachloronitrobenzene	Linear	0.997968	0.000000	0.179252	-0.0139776
102 T	3,3'-Dimethylbenzidine	Linear	0.997837	0.000000	0.765644	-0.133055

Response Factor Report Dakota

Method Path : I:\8270\Dakota\240228ical\
Method File : FS240228LVIDakota.m
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Thu Feb 29 09:56:11 2024
Response Via : Initial Calibration

Calibration Files
L1 =APDPL1.D L2 =APDPL2.D L3 =APDPL3.D L4 =APDPL4.D L5 =APDPL5.D L6 =APDPL6.D L7 =APDPL
L8 =APDPL8.D L9 =APDPL9.D L10 =APDPL10.D

		Compound	L1	L2	L3	L4	L5	L6	L7	L8	L9	L10	Avg	%RSD
1)	I	IS1_1,4-Dichlorobenzene-d4	ISTD											
2)	t	N-Nitrosodimethylamine	0.681	0.654	0.669	0.718	0.746	0.734	0.716	0.919	0.786	0.827	0.745	10.83
3)	t	Pyridine	0.910	0.931	0.963	1.114	1.174	1.094	1.129	1.366	1.231	1.312	1.122	13.85
4)	S	2-Fluorophenol	1.087	0.953	1.017	1.021	1.065	1.019	1.018	1.276	1.092	1.159	1.071	8.54
5)	T	Aniline	1.462	1.534	1.587	1.553	1.602	1.558	1.519	1.946	1.651	1.711	1.612	8.45
6)	t	2-Chlorophenol	1.008	1.224	1.036	1.128	1.166	1.142	1.131	1.433	1.202	1.239	1.171	10.10
7)	S	Phenol-d6	1.312	1.284	1.275	1.326	1.347	1.336	1.327	1.698	1.441	1.490	1.383	9.36
8)	T	Phenol	1.296	1.386	1.519	1.421	1.556	1.528	1.478	1.879	1.588	1.629	1.528	10.37
9)	T	bis(2-Chloroethyl)ether	1.121	1.042	1.054	1.018	1.103	1.026	1.030	1.274	1.059	1.092	1.082	7.01
10)	T	1,3-Dichlorobenzene	1.561	1.448	1.493	1.419	1.497	1.463	1.406	1.741	1.441	1.476	1.495	6.51
11)	T	1,4-Dichlorobenzene	1.719	1.442	1.441	1.425	1.514	1.448	1.426	1.759	1.452	1.487	1.511	8.17
12)	T	1,2-Dichlorobenzene	1.458	1.373	1.397	1.422	1.510	1.379	1.381	1.676	1.376	1.413	1.439	6.53
13)	t	Benzyl alcohol	0.817	0.956	0.928	0.918	0.992	0.926	0.932	1.180	0.987	1.044	0.968	9.85
14)	T	bis(2-chloroisopropyl)ether	2.374	2.176	2.126	2.107	2.228	2.162	2.070	2.543	2.093	2.134	2.201	6.73
15)	T	2-Methylphenol	1.073	0.933	0.969	1.023	1.031	1.032	0.974	1.263	1.038	1.076	1.041	8.67
16)	T	Hexachloroethane	0.548	0.583	0.545	0.534	0.542	0.528	0.512	0.636	0.535	0.547	0.551	6.34
17)	T	n-Nitrosodi-n-propylamine	0.832	0.840	0.801	0.838	0.873	0.824	0.829	1.021	0.853	0.895	0.860	7.22
18)	T	3-Methylphenol/4-Methylphenol	1.379	1.131	1.029	1.060	1.106	1.072	1.065	1.306	1.097	1.131	1.138	10.02
19)	S	Nitrobenzene-d5	1.275	1.186	1.207	1.179	1.273	1.217	1.186	1.481	1.221	1.239	1.246	7.15
20)	T	Nitrobenzene	1.213	1.228	1.255	1.171	1.223	1.176	1.149	1.443	1.189	1.218	1.226	6.70
21)	T	Isophorone	2.141	1.917	2.127	2.044	2.179	2.209	2.093	2.640	2.186	2.302	2.184	8.72
22)	T	2-Nitrophenol		0.496	0.519	0.516	0.547	0.553	0.569	0.716	0.615	0.635	0.574	12.22
23)	T	2,4-Dimethylphenol	0.938	0.859	0.830	0.834	0.880	0.866	0.860	1.056	0.894	0.940	0.896	7.58
24)	T	bis(2-Chloroethoxy)methane	1.438	1.373	1.415	1.361	1.383	1.360	1.330	1.618	1.357	1.404	1.404	5.80
25)	T	2,4-Dichlorophenol	1.070	1.040	1.028	1.154	1.171	1.167	1.142	1.384	1.160	1.200	1.152	8.76
26)	T	1,2,4-Trichlorobenzene	1.561	1.385	1.423	1.436	1.509	1.455	1.429	1.718	1.424	1.458	1.480	6.56
27)	I	IS2_1,4-Dichlorobenzene-d4	ISTD											
28)	T	Benzaldehyde			0.465	0.442	0.499	0.475	0.470	0.489	0.466	0.554	0.482	6.95
29)	T	Acetophenone	1.663	1.702	1.686	1.543	1.674	1.678	1.748	1.729	1.629	1.887	1.694	5.21
30)	T	m-Toluidine	1.126	1.209	1.164	1.085	1.192	1.249	1.261	1.233	1.203	1.407	1.213	7.19
31)	T	2-Chloroaniline	1.230	1.329	1.459	1.322	1.497	1.454	1.497	1.496	1.411	1.634	1.433	8.01
32)	T	n-Decane	1.627	1.485	1.372	1.317	1.459	1.374	1.351	1.353	1.334	1.507	1.418	6.96
33)	I	IS1_Naphthalene-d8	ISTD											
34)	T	Naphthalene	0.975	1.021	0.971	0.971	1.053	1.030	0.958	1.176	0.976	0.994	1.012	6.45
35)	T	Benzoic Acid				0.103	0.148	0.170	0.193	0.269	0.248	0.270	*L	0.9942
36)	T	4-Chloroaniline	0.137	0.115	0.128	0.124	0.129	0.134	0.121	0.148	0.126	0.132	0.129	7.13
37)	T	Hexachlorobutadiene	0.202	0.252	0.249	0.257	0.257	0.260	0.238	0.295	0.247	0.257	0.251	9.06
38)	T	p-Chloro-m-cresol	0.272	0.254	0.265	0.267	0.281	0.282	0.273	0.338	0.285	0.307	0.282	8.51
39)	T	2-Methylnaphthalene	0.721	0.754	0.656	0.676	0.717	0.695	0.670	0.827	0.693	0.721	0.713	6.92
40)	T	1-Methylnaphthalene	0.258	0.206	0.212	0.225	0.223	0.230	0.215	0.262	0.219	0.228	0.228	8.21
41)	T	Hexachlorocyclopentadiene	0.186	0.219	0.212	0.227	0.235	0.231	0.231	0.289	0.251	0.262	0.234	12.07
42)	T	2,4,6-Trichlorophenol	0.245	0.247	0.269	0.260	0.289	0.276	0.263	0.334	0.285	0.303	0.277	9.77
43)	T	2,4,5-Trichlorophenol	0.280	0.303	0.272	0.275	0.295	0.310	0.291	0.365	0.313	0.327	0.303	9.24
44)	S	2-Fluorobiphenyl	0.818	0.927	0.869	0.895	0.946	0.893	0.860	1.019	0.864	0.875	0.897	6.22
45)	T	2-Chloronaphthalene	0.746	0.747	0.739	0.749	0.771	0.780	0.715	0.870	0.730	0.753	0.760	5.63

Response Factor Report Dakota

Method Path : I:\8270\Dakota\240228ical\
Method File : FS240228LVIDakota.m
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Thu Feb 29 09:56:11 2024
Response Via : Initial Calibration

Calibration Files
L1 =APDPL1.D L2 =APDPL2.D L3 =APDPL3.D L4 =APDPL4.D L5 =APDPL5.D L6 =APDPL6.D L7 =APDPL
L8 =APDPL8.D L9 =APDPL9.D L10 =APDPL10.D

		Compound	L1	L2	L3	L4	L5	L6	L7	L8	L9	L10	Avg	%RSD
46)	T	2-Nitroaniline	0.141	0.184	0.185	0.177	0.196	0.203	0.199	0.248	0.218	0.227	0.198	14.91
47)	T	1,4-Dinitrobenzene		0.066	0.073	0.082	0.085	0.092	0.084	0.111	0.102	0.106	0.089	17.04
48)	T	1,3-Dinitrobenzene		0.101	0.086	0.093	0.104	0.103	0.099	0.130	0.115	0.125	0.106	13.68
49)	T	Dimethyl phthalate	0.830	0.834	0.798	0.852	0.851	0.868	0.823	0.999	0.847	0.892	0.860	6.44
50)	T	Acenaphthylene	1.050	1.126	1.100	1.123	1.213	1.192	1.112	1.334	1.112	1.144	1.151	6.88
51)	T	2,6-Dinitrotoluene	0.120	0.151	0.158	0.162	0.167	0.173	0.166	0.209	0.182	0.194	0.168	14.39
52)	T	1,2-Dinitrobenzene		0.056	0.054	0.063	0.069	0.069	0.064	0.081	0.074	0.076	0.067	13.32
53)	I	IS2_Naphthalene-d8	----------ISTD----------											
54)	T	a-Terpineol	0.310	0.268	0.290	0.268	0.294	0.293	0.308	0.314	0.298	0.343	0.299	7.44
55)	T	3-Chloroaniline	0.118	0.117	0.137	0.131	0.141	0.129	0.134	0.137	0.132	0.148	0.132	7.14
56)	T	2,6-Dichlorophenol	0.287	0.300	0.303	0.304	0.318	0.318	0.326	0.334	0.312	0.356	0.316	6.19
57)	T	1-chloro-2-nitrobenzene	0.115	0.119	0.121	0.132	0.125	0.132	0.130	0.137	0.128	0.147	0.129	7.12
58)	T	Caprolactam				0.146	0.147	0.150	0.166	0.180	0.169	0.194	0.165	11.01
59)	T	1,2,4,5-Tetrachlorobenzene	0.470	0.459	0.437	0.432	0.444	0.434	0.447	0.446	0.421	0.476	0.447	3.90
60)	T	Biphenyl	0.851	0.918	0.870	0.887	0.886	0.900	0.914	0.898	0.838	0.945	0.891	3.60
61)	I	IS1_Acenaphthene-d10	----------ISTD----------											
62)	T	3-Nitroaniline		0.222	0.265	0.250	0.276	0.287	0.288	0.345	0.310	0.323	0.285	13.19
63)	T	Acenaphthene	0.985	1.008	1.025	1.032	0.982	0.994	1.002	1.149	1.001	1.032	1.021	4.72
64)	T	2,4-Dinitrophenol			0.061	0.120	0.119	0.134	0.158	0.200	0.189	0.206	*Q	0.9965
65)	T	Dibenzofuran	1.751	1.809	1.750	1.748	1.747	1.720	1.718	1.988	1.704	1.715	1.765	4.74
66)	T	2,4-Dinitrotoluene		0.290	0.291	0.317	0.333	0.354	0.371	0.451	0.401	0.424	*Q	0.9963
67)	T	4-Nitrophenol	0.200	0.200	0.215	0.228	0.222	0.225	0.238	0.293	0.259	0.272	0.235	13.09
68)	T	2,3,5,6-Tetrachlorophenol	0.369	0.348	0.364	0.422	0.422	0.410	0.417	0.492	0.439	0.458	0.414	10.70
69)	T	2,3,4,6-Tetrachlorophenol	0.331	0.329	0.385	0.388	0.410	0.401	0.404	0.472	0.417	0.430	0.397	10.80
70)	T	Diethyl phthalate	1.319	1.289	1.285	1.306	1.327	1.305	1.312	1.520	1.338	1.393	1.340	5.26
71)	T	Fluorene	1.368	1.355	1.318	1.356	1.326	1.314	1.288	1.517	1.317	1.344	1.350	4.68
72)	T	4-Chlorophenyl-phenylether	0.726	0.694	0.700	0.703	0.713	0.691	0.693	0.805	0.697	0.712	0.713	4.77
73)	T	4-Nitroaniline		0.202	0.243	0.278	0.276	0.283	0.295	0.339	0.309	0.318	0.283	14.47
74)	T	4,6-Dinitro-o-cresol			0.144	0.171	0.181	0.196	0.216	0.269	0.258	0.275	*Q	0.9972
75)	T	NDPA/DPA	0.984	1.150	1.070	1.108	1.124	1.103	1.111	1.268	1.116	1.143	1.118	6.32
76)	T	Azobenzene	1.249	1.138	1.172	1.166	1.164	1.156	1.151	1.346	1.153	1.188	1.188	5.32
77)	S	2,4,6-Tribromophenol	0.255	0.256	0.238	0.252	0.245	0.252	0.259	0.305	0.275	0.292	0.263	8.16
78)	T	4-Bromophenyl-phenylether	0.401	0.428	0.466	0.446	0.452	0.443	0.444	0.519	0.463	0.489	0.455	7.08
79)	T	Hexachlorobenzene	0.531	0.552	0.566	0.552	0.533	0.523	0.542	0.625	0.555	0.583	0.556	5.36
80)	T	Pentachlorophenol				0.318	0.320	0.341	0.359	0.436	0.395	0.423	0.370	13.03
81)	I	IS2_Acenaphthene-d10	----------ISTD----------											
82)	T	Dichloran			0.142	0.148	0.153	0.156	0.183	0.193	0.210	0.235	0.178	18.88
83)	T	Pentachloronitrobenzene		0.177	0.170	0.168	0.176	0.188	0.198	0.201	0.206	0.229	0.190	10.63
84)	T	Atrazine	0.357	0.322	0.353	0.361	0.375	0.383	0.404	0.402	0.413	0.466	0.384	10.46
85)	I	IS1_Phenanthrene-d10	----------ISTD----------											
86)	T	Phenanthrene	1.117	1.039	1.003	1.035	1.025	1.016	0.977	1.190	0.988	0.994	1.038	6.36
87)	T	Anthracene	1.076	0.982	1.007	1.028	1.009	1.011	0.978	1.190	0.999	0.994	1.027	6.18
88)	T	Carbazole	1.073	0.881	0.926	0.933	0.963	0.968	0.931	1.112	0.946	0.953	0.968	7.25
89)	T	Di-n-butylphthalate	1.036	0.938	0.986	1.012	1.026	1.060	1.065	1.339	1.126	1.156	1.074	10.47
90)	T	Fluoranthene	1.398	1.331	1.247	1.242	1.248	1.244	1.193	1.487	1.253	1.265	1.291	6.92

Response Factor Report Dakota

Method Path : I:\8270\Dakota\240228ical\
Method File : FS240228LVIDakota.m
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Thu Feb 29 09:56:11 2024
Response Via : Initial Calibration

Calibration Files
L1 =APDPL1.D L2 =APDPL2.D L3 =APDPL3.D L4 =APDPL4.D L5 =APDPL5.D L6 =APDPL6.D L7 =APDPL
L8 =APDPL8.D L9 =APDPL9.D L10 =APDPL10.D

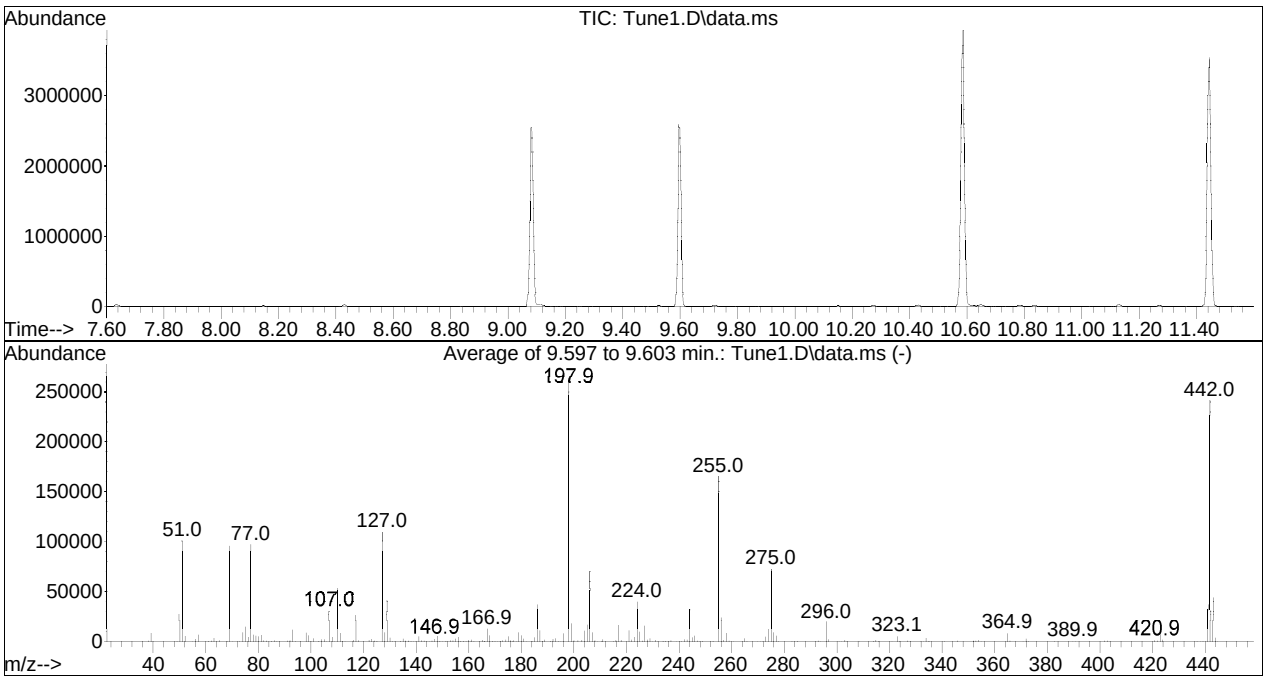
		Compound	L1	L2	L3	L4	L5	L6	L7	L8	L9	L10	Avg	%RSD
91)	T	Benzidine	0.675	0.731	0.652	0.743	0.753	0.776	0.767	0.949	0.779	0.781	0.761	10.46
92)	T	Pyrene	1.497	1.357	1.297	1.350	1.358	1.339	1.293	1.532	1.285	1.284	1.359	6.43
93)	S	4-Terphenyl-d14	1.159	0.981	1.012	1.014	1.021	1.039	0.996	1.194	1.018	1.015	1.045	6.84
94)	T	Butyl benzyl phthalate			0.397	0.430	0.431	0.471	0.477	0.607	0.541	0.566	*L	0.9957
95)	I	IS2_Phenanthrene-d10	----------ISTD----------											
96)	T	Diphenamid	0.384	0.402	0.411	0.405	0.432	0.448	0.458	0.486	0.481	0.548	0.446	11.14
97)	T	n-Octadecane	0.377	0.403	0.390	0.368	0.397	0.412	0.406	0.422	0.411	0.463	0.405	6.49
98)	T	Parathion			0.071	0.065	0.071	0.074	0.084	0.095	0.106	0.126	*Q	0.9990
99)	T	3,3'-Dimethylbenzidine		0.338	0.368	0.406	0.459	0.483	0.561	0.632	0.667	0.757	*Q	0.9986
100)	I	IS1_Chrysene-d12	----------ISTD----------											
101)	T	Benzo[a]anthracene	1.511	1.335	1.274	1.319	1.313	1.313	1.316	1.588	1.339	1.371	1.368	7.34
102)	T	3,3'-Dichlorobenzidine	0.462	0.443	0.442	0.466	0.492	0.505	0.518	0.651	0.566	0.595	0.514	13.56
103)	T	Chrysene	1.566	1.387	1.350	1.302	1.289	1.269	1.238	1.469	1.223	1.243	1.333	8.38
104)	T	bis(2-Ethylhexyl)phthalate		0.530	0.552	0.614	0.645	0.686	0.727	0.907	0.767	0.796	*L	0.9946
105)	T	Di-n-octylphthalate			0.834	0.992	1.053	1.139	1.242	1.565	1.422	1.481	*L	0.9959
106)	T	Benzo(b)fluoranthene	1.404	1.336	1.281	1.324	1.382	1.375	1.403	1.651	1.471	1.482	1.411	7.42
107)	T	Benzo(k)fluoranthene	1.480	1.317	1.313	1.358	1.401	1.360	1.341	1.645	1.347	1.359	1.392	7.25
108)	T	Benzo(a)pyrene	1.189	1.195	1.231	1.240	1.270	1.280	1.300	1.568	1.366	1.379	1.302	8.70
109)	I	IS1_Perylene-d12	----------ISTD----------											
110)	T	Indeno(1,2,3-cd)pyrene	1.167	1.144	1.190	1.114	1.230	1.229	1.273	1.535	1.300	1.383	1.256	10.03
111)	T	Dibenzo[a,h]anthracene	1.088	1.097	1.095	1.093	1.177	1.186	1.176	1.423	1.212	1.198	1.175	8.54
112)	T	Benzo(g,h,i)perylene	1.193	1.135	1.145	1.119	1.160	1.176	1.143	1.396	1.180	1.173	1.182	6.66

(#) = Out of Range

Data Path : I:\8270\Dakota\240228ical\
Data File : Tune1.D
Acq On : 28 Feb 2024 8:30 pm
Operator : Dakota:ljg
Sample : Tune
Misc : WG1890771
ALS Vial : 100 Sample Multiplier: 1

Integration File: rteint.p

Method : I:\8270\Dakota\240228ical\FS240228LVIDakota.m
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Thu Feb 29 09:56:11 2024



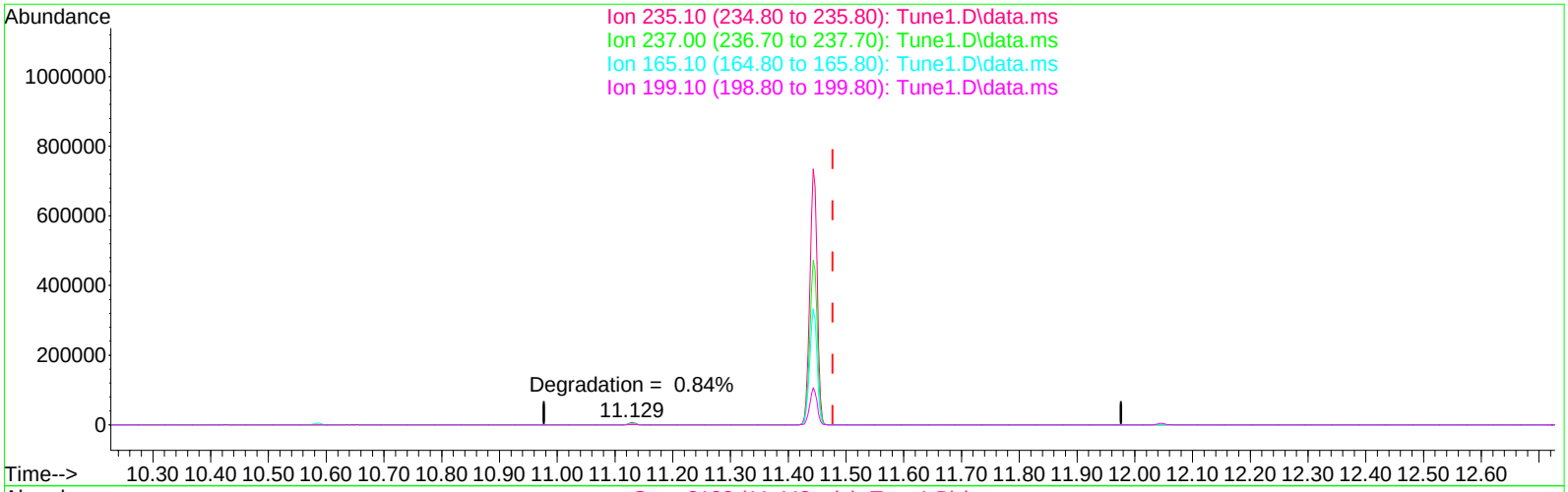
Spectrum Information: Average of 9.597 to 9.603 min.

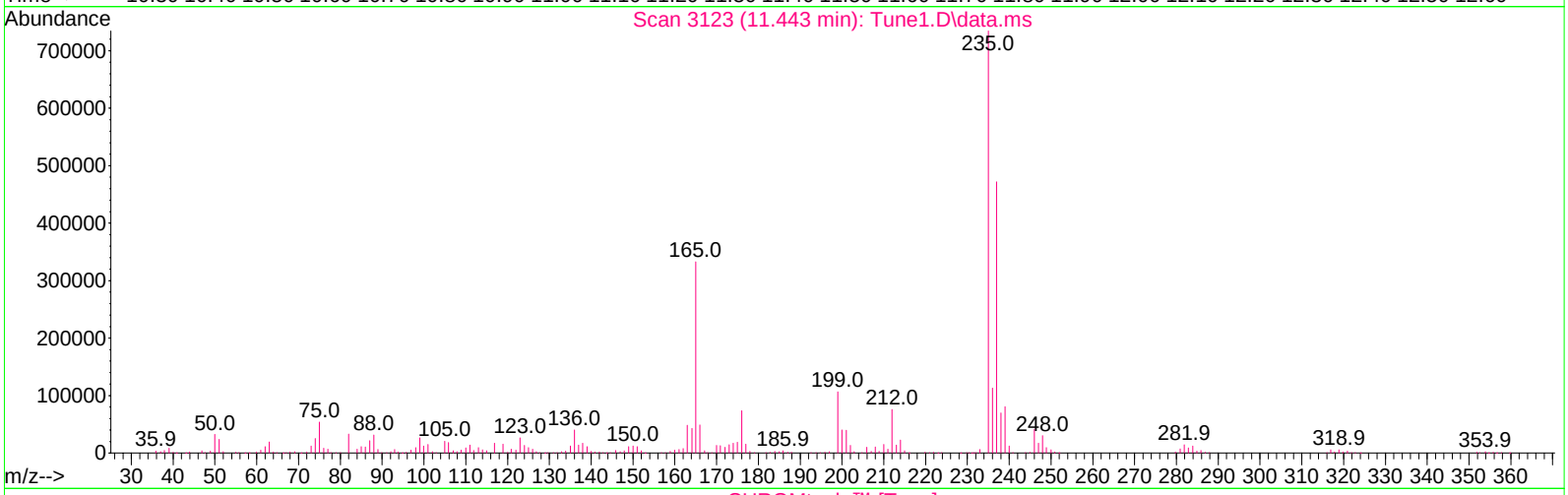
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	38.2	101024	PASS
68	69	0.00	2	0.7	706	PASS
69	69	100	100	100.0	95427	PASS
70	69	0.00	2	0.5	454	PASS
127	198	10	80	41.4	109339	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	264299	PASS
199	198	5	9	6.5	17216	PASS
275	198	10	60	27.4	72424	PASS
365	198	1	100	3.0	7968	PASS
441	442	0.01	24	15.3	36792	PASS
442	198	50	100	91.1	240853	PASS
443	442	15	24	18.2	43845	PASS

Quantitation Report (Qedit)

Data Path : I:\8270\Dakota\240228ical\
Data File : Tune1.D
Acq On : 28 Feb 2024 8:30 pm
Operator : Dakota:ljg
Sample : Tune
Misc : WG1890771
ALS Vial : 100 Sample Multiplier: 1

Quant Time: Feb 29 14:19:31 2024
Quant Method : I:\8270\Dakota\240228ical\DftppDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Feb 29 14:19:22 2024
Response via : Initial Calibration





CHROMtools™ [Tune]

(6) DDT (T)

11.443min (-0.034) 106.60

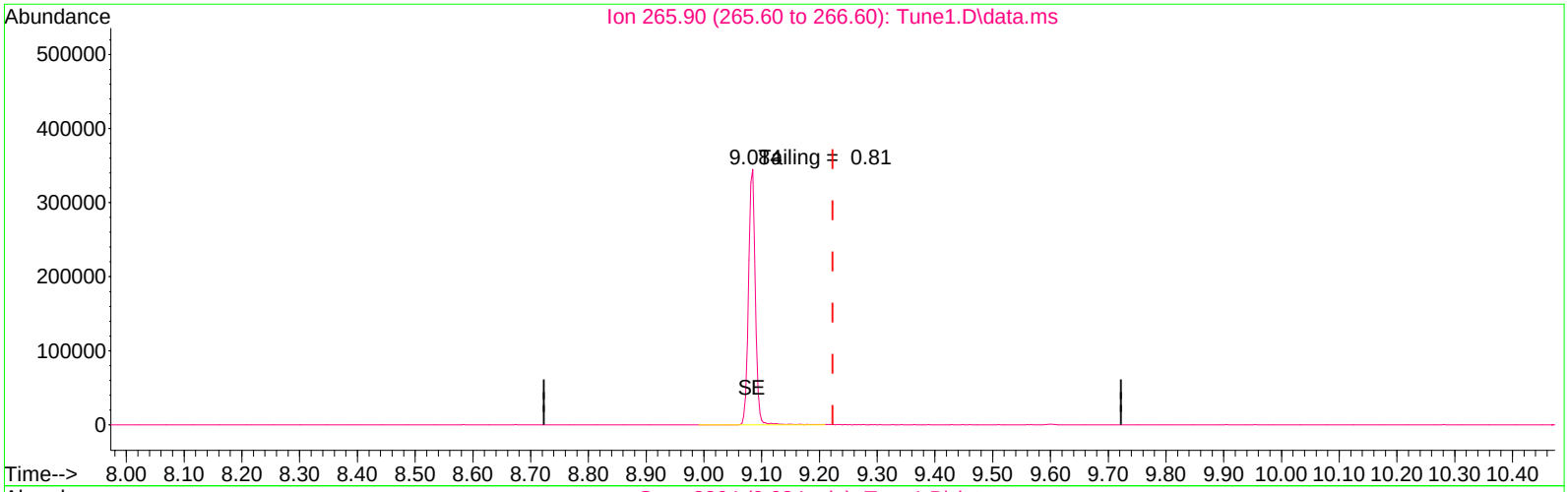
response 649794

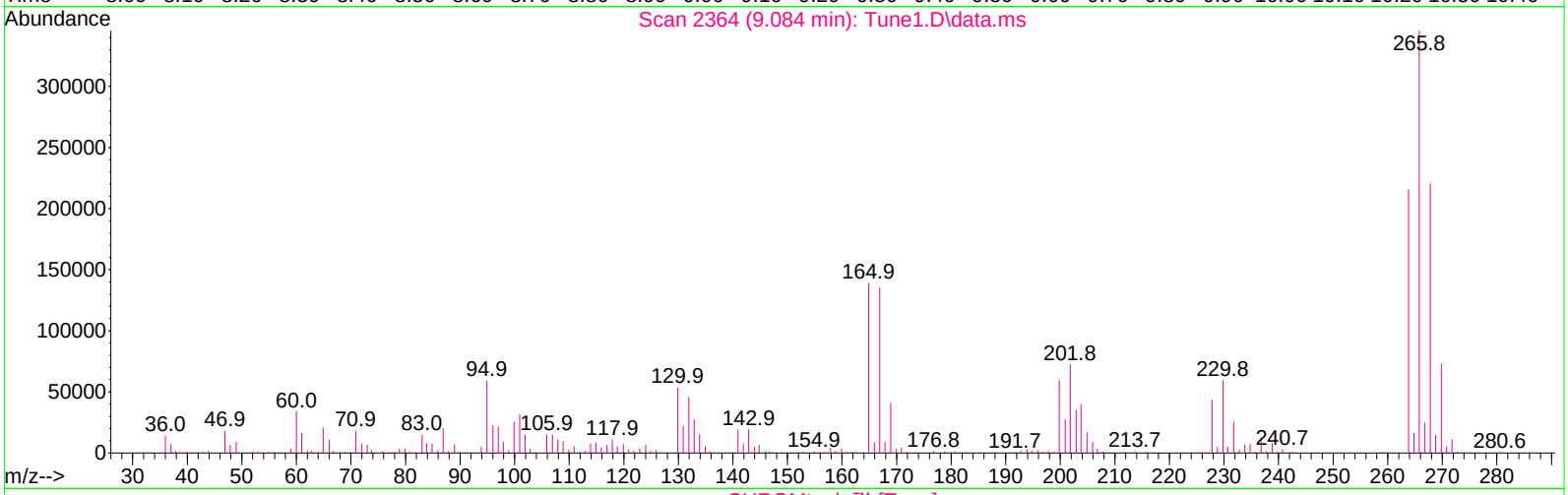
Ion	Exp%	Act%
235.10	100.00	100.00
237.00	65.30	64.80
165.10	49.60	44.82
199.10	15.70	14.44

Quantitation Report (Qedit)

Data Path : I:\8270\Dakota\240228ical\
Data File : Tune1.D
Acq On : 28 Feb 2024 8:30 pm
Operator : Dakota:ljg
Sample : Tune
Misc : WG1890771
ALS Vial : 100 Sample Multiplier: 1

Quant Time: Feb 29 14:19:31 2024
Quant Method : I:\8270\Dakota\240228ical\DftppDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Feb 29 14:19:22 2024
Response via : Initial Calibration





CHROMtools™ [Tune]

(1) Pentachlorophenol (T)

9.084min (-0.139) 133.50

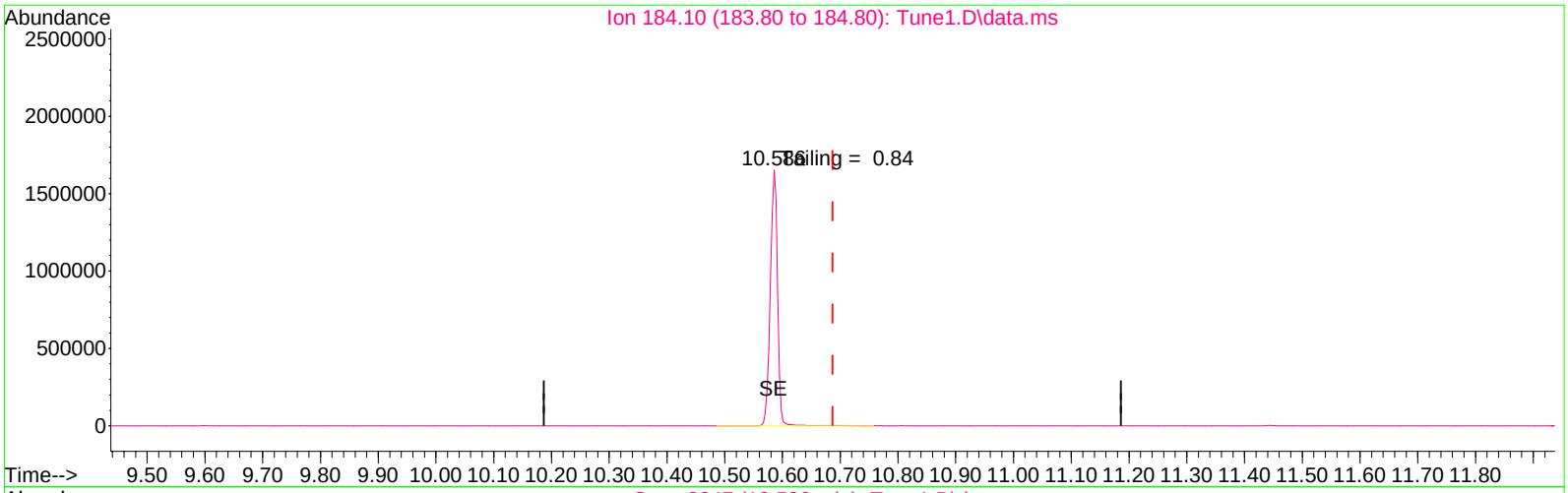
response 280406

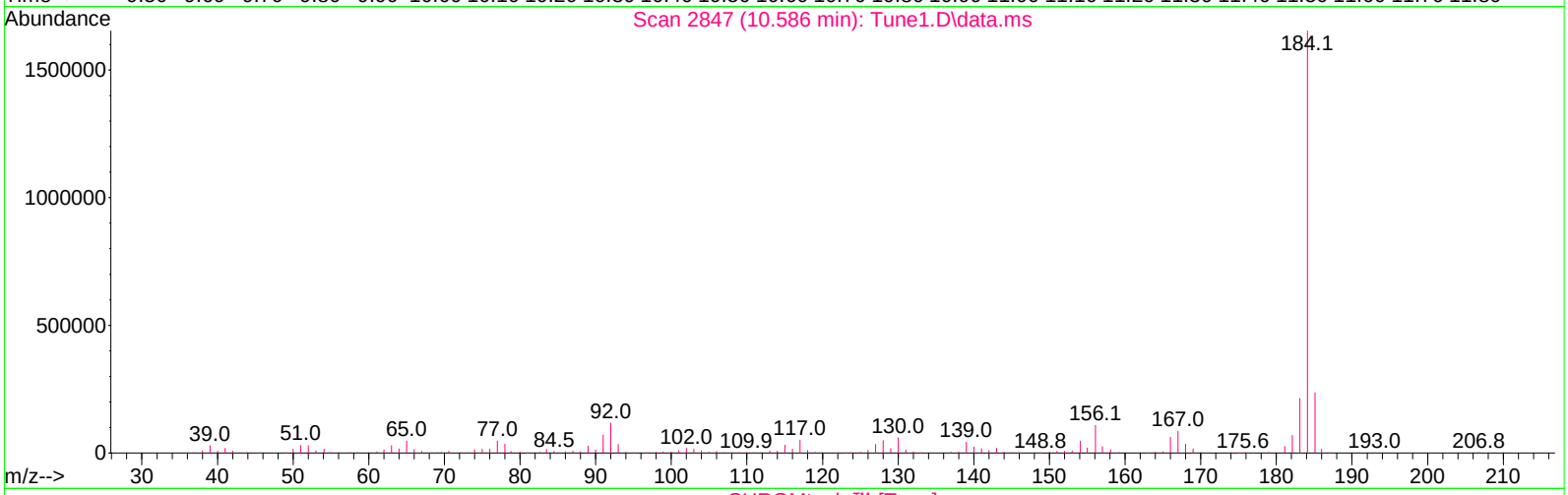
Ion	Exp%	Act%
265.90	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\8270\Dakota\240228ical\
Data File : Tune1.D
Acq On : 28 Feb 2024 8:30 pm
Operator : Dakota:ljg
Sample : Tune
Misc : WG1890771
ALS Vial : 100 Sample Multiplier: 1

Quant Time: Feb 29 14:19:31 2024
Quant Method : I:\8270\Dakota\240228ical\DftppDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Feb 29 14:19:22 2024
Response via : Initial Calibration





CHROMtools™ [Tune]

(3) Benzidine (T)

10.586min (-0.101) 139.75

response 1422629

Ion	Exp%	Act%
184.10	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240228ical\
Data File : ABNL10.D
Acq On : 28 Feb 2024 8:52 pm
Operator : Dakota:ljg
Sample : IL1,32,,ABNL50 Lot# 10522
Misc : WG1890771,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Feb 29 09:01:24 2024
Quant Method : I:\8270\Dakota\240228ical\FS240228LVIDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Feb 29 08:54:57 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\240228ical\ABNL6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) IS1_1,4-Dichlorobenzen...	4.870	152	23898	4.000 ug/ml	0.00
Standard Area 1 = 24358			Recovery = 98.11%		
33) IS1_Naphthalene-d8	6.110	136	81296	4.000 ug/ml #	0.00
Standard Area 1 = 83339			Recovery = 97.55%		
61) IS1_Acenaphthene-d10	7.819	164	51109	4.000 ug/ml	0.00
Standard Area 1 = 55337			Recovery = 92.36%		
85) IS1_Phenanthrene-d10	9.252	188	113126	4.000 ug/ml	0.00
Standard Area 1 = 117827			Recovery = 96.01%		
101) IS1_Chrysene-d12	11.910	240	115451	4.000 ug/ml	0.00
Standard Area 1 = 124719			Recovery = 92.57%		
110) IS1_Perylene-d12	13.380	264	140560	4.000 ug/ml	0.00
Standard Area 1 = 144564			Recovery = 97.23%		
System Monitoring Compounds					
4) 2-Fluorophenol	3.602	112	346151	56.931 ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 1138.62%#		
7) Phenol-d6	4.546	99	445181	56.145 ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 1122.90%#		
19) Nitrobenzene-d5	5.414	82	370237	52.260 ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 2090.40%#		
44) 2-Fluorobiphenyl	7.179	172	889180	50.867 ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 2034.68%#		
77) 2,4,6-Tribromophenol	8.584	330	186776	56.372 ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 1127.44%#		
93) 4-Terphenyl-d14	10.834	244	1434794	50.886 ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 2035.44%#		
Target Compounds					Qvalue
2) n-Nitrosodimethylamine	2.228	74	247017	57.727 ug/ml#	82
3) Pyridine	2.265	79	391828M3	56.953 ug/ml	
5) Aniline	4.553	93	511044	56.319 ug/ml#	41
6) 2-Chlorophenol	4.668	128	370244	54.793 ug/ml	93
8) Phenol	4.556	94	486590	55.134 ug/ml#	49
9) Bis(2-chloroethyl)ether	4.630	93	326154	52.979 ug/ml	98
10) 1,3-Dichlorobenzene	4.817	146	441059	52.513 ug/ml	95
11) 1,4-Dichlorobenzene	4.888	146	444321	52.146 ug/ml	95
12) 1,2-Dichlorobenzene	5.034	146	422247	51.167 ug/ml	94
13) Benzyl alcohol	5.019	79	311846	56.001 ug/ml	96
14) Bis(2-chloroisopropyl)...	5.159	45	637469	51.544 ug/ml#	72

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240228ical\
Data File : ABNL10.D
Acq On : 28 Feb 2024 8:52 pm
Operator : Dakota:ljg
Sample : IL1,32,,ABNL50 Lot# 10522
Misc : WG1890771,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Feb 29 09:01:24 2024
Quant Method : I:\8270\Dakota\240228ical\FS240228LVIDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Feb 29 08:54:57 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\240228ical\ABNL6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
15) 2-Methylphenol	5.143	108	321476	55.243	ug/ml	97
16) Hexachloroethane	5.364	117	163475	53.461	ug/ml#	49
17) n-Nitrosodi-n-propylamine	5.289	70	267263	53.751	ug/ml#	88
18) 3-Methylphenol/4-Methy...	5.302	108	337995	53.104	ug/ml	98
20) Nitrobenzene	5.432	77	363893	53.030	ug/ml	99
21) Isophorone	5.672	82	687764	54.992	ug/ml	95
22) 2-Nitrophenol	5.743	139	189661	55.814	ug/ml	91
23) 2,4-Dimethylphenol	5.811	107	280872	54.671	ug/ml	99
24) Bis(2-chloroethoxy)met...	5.902	93	419441	52.768	ug/ml#	97
25) 2,4-Dichlorophenol	5.982	162	358426	52.552	ug/ml#	93
26) 1,2,4-Trichlorobenzene	6.063	180	435580	51.012	ug/ml	97
34) Naphthalene	6.129	128	1009652	51.864	ug/ml	99
35) Benzoic Acid	5.942	105	273983	69.745	ug/ml	97
36) 4-Chloroaniline	6.197	65	134310	54.466	ug/ml	93
37) Hexachlorobutadiene	6.275	225	260867	53.835	ug/ml	99
38) p-Chloro-m-cresol	6.688	107	312031	56.147	ug/ml	92
39) 2-Methylnaphthalene	6.809	142	732405	53.820	ug/ml	97
40) 1-Methylnaphthalene	6.902	115	231367	52.456	ug/ml	96
41) Hexachlorocyclopentadiene	6.977	237	266532	56.741	ug/ml	99
42) 2,4,6-Trichlorophenol	7.092	196	308222	57.696	ug/ml	98
43) 2,4,5-Trichlorophenol	7.123	196	332693	56.326	ug/ml	98
45) 2-Chloronaphthalene	7.279	162	765637	52.350	ug/ml	92
46) 2-Nitroaniline	7.387	138	230919	57.137	ug/ml	88
47) 1,4-Dinitrobenzene	7.518	168	107442	63.054	ug/ml	83
48) 1,3-Dinitrobenzene	7.592	168	127178	63.073	ug/ml#	1
49) Dimethyl phthalate	7.586	163	906707	54.226	ug/ml#	97
50) Acenaphthylene	7.676	152	1162570	51.433	ug/ml	98
51) 2,6-Dinitrotoluene	7.630	165	197328	58.658	ug/ml#	75
52) 1,2-Dinitrobenzene	7.676	168	76921	58.848	ug/ml#	1
62) 3-Nitroaniline	7.788	138	206222	56.041	ug/ml#	90
63) Acenaphthene	7.850	154	659330	51.518	ug/ml	93
64) 2,4-Dinitrophenol	7.888	184	131560	65.117	ug/ml#	80
65) Dibenzofuran	8.018	168	1095661	49.919	ug/ml	91
66) 2,4-Dinitrotoluene	8.018	165	271009	57.206	ug/ml	88
67) 4-Nitrophenol	7.969	65	173799	57.260	ug/ml#	89
68) 2,3,5,6-Tetrachlorophenol	8.105	232	292865	54.919	ug/ml	99
69) 2,3,4,6-Tetrachlorophenol	8.146	232	274953	53.211	ug/ml	97
70) Diethyl phthalate	8.279	149	889794	53.059	ug/ml	98
71) Fluorene	8.351	166	858777	52.164	ug/ml	93
72) 4-Chlorophenyl phenyl ...	8.363	204	455141	51.372	ug/ml#	84

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240228ical\
Data File : ABNL10.D
Acq On : 28 Feb 2024 8:52 pm
Operator : Dakota:ljg
Sample : IL1,32,,ABNL50 Lot# 10522
Misc : WG1890771,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Feb 29 09:01:24 2024
Quant Method : I:\8270\Dakota\240228ical\FS240228LVIDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Feb 29 08:54:57 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\240228ical\ABNL6.D
Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
73)	4-Nitroaniline	8.382	138	202997	53.882	ug/ml	87
74)	4,6-Dinitro-o-cresol	8.413	198	175455	63.567	ug/ml#	59
75)	NDPA/DPA	8.481	169	730166	51.424	ug/ml	93
76)	Azobenzene	8.516	77	758926	51.620	ug/ml	98
78)	4-Bromophenyl phenyl e...	8.836	248	312399	55.003	ug/ml#	79
79)	Hexachlorobenzene	8.892	284	372709	53.791	ug/ml#	79
80)	Pentachlorophenol	9.081	266	270317	58.976	ug/ml	99
86)	Phenanthrene	9.277	178	1406096	50.894	ug/ml	98
87)	Anthracene	9.327	178	1405530	50.707	ug/ml	97
88)	Carbazole	9.491	167	1348135	51.216	ug/ml	98
89)	Di-n-butylphthalate	9.868	149	1634230	54.264	ug/ml	97
90)	Fluoranthene	10.433	202	1788364	52.921	ug/ml#	91
91)	Benzidine	10.582	184	1104676	51.741	ug/ml#	94
92)	Pyrene	10.654	202	1815905	49.544	ug/ml	97
94)	Butyl benzyl phthalate	11.359	149	800857	59.436	ug/ml	86
102)	Benzo(a)anthracene	11.900	228	1979187	52.102	ug/ml	97
103)	3,3'-Dichlorobenzidine	11.894	252	858280	57.265	ug/ml#	96
104)	Chrysene	11.938	228	1793695	50.067	ug/ml	97
105)	Bis(2-ethylhexyl)phtha...	11.997	149	1148423	54.711	ug/ml#	94
106)	Di-n-octylphthalate	12.680	149	2137116	59.460	ug/ml#	76
107)	Benzo(b)fluoranthene	13.016	252	2139235	52.804	ug/ml#	92
108)	Benzo(k)fluoranthene	13.044	252	1960842	50.358	ug/ml#	91
109)	Benzo(a)pyrene	13.333	252	1990295	53.080	ug/ml#	91
111)	Indeno(1,2,3-cd)pyrene	14.349	276	2430076M6	54.076	ug/mL	
112)	Dibenzo(a,h)anthracene	14.368	278	2104698	50.756	ug/ml#	87
113)	Benzo(ghi)perylene	14.570	276	2060852	51.447	ug/ml#	84

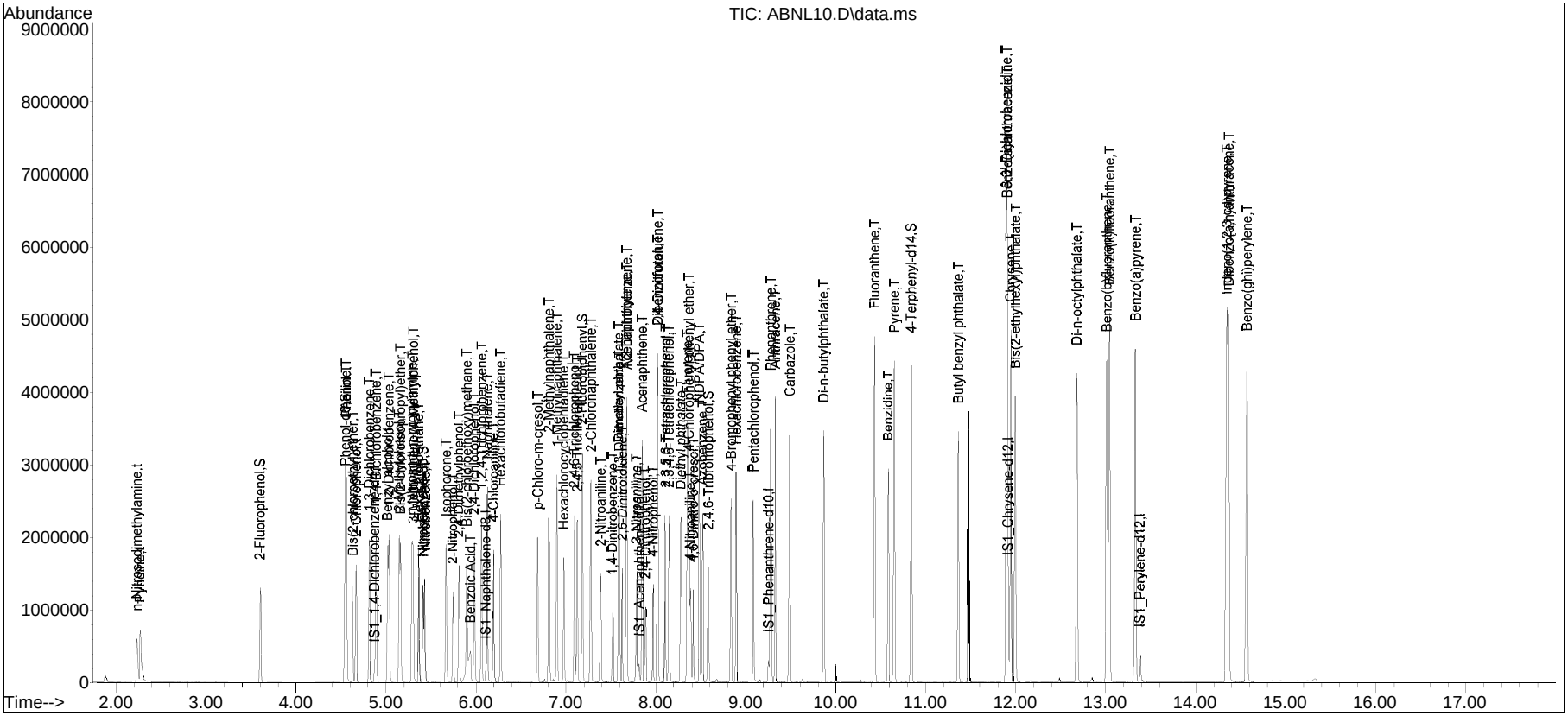
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240228ical\
Data File : ABNL10.D
Acq On : 28 Feb 2024 8:52 pm
Operator : Dakota:ljg
Sample : IL1,32,,ABNL50 Lot# 10522
Misc : WG1890771,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Feb 29 09:01:24 2024
Quant Method : I:\8270\Dakota\240228ical\FS240228LVIDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Feb 29 08:54:57 2024
Response via : Initial Calibration

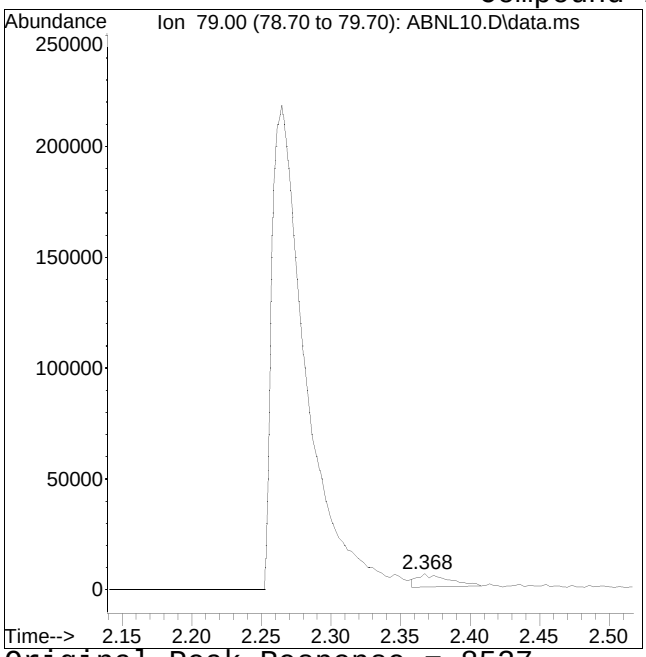
Sub List : ABNical - ABN ical sublistcal\ABNL6.D•

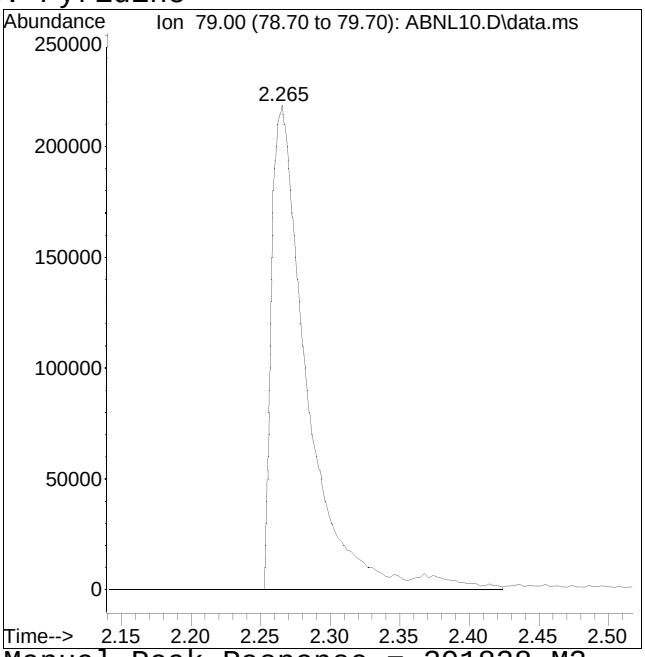


Manual Integration Report

Data Path : I:\8270\Dakota\240228ical\QMethod : FS240228LVIDakota.m
Data File : ABNL10.D Operator : Dakota:ljg
Date Inj'd : 2/28/2024 8:52 pm Instrument : Dakota
Sample : IL1,32,,ABNL50 Lot# 10522 Quant Date : 2/29/2024 8:56 am

Compound #3: Pyridine



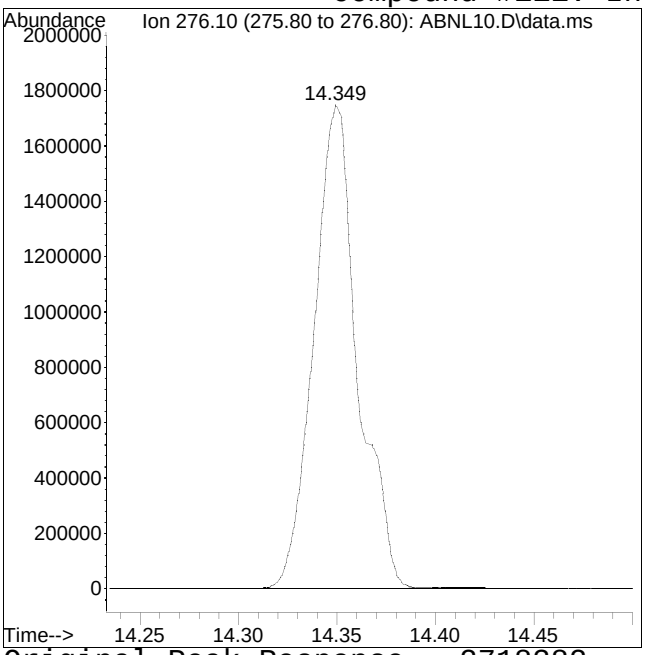


Original Peak Response = 8527 Manual Peak Response = 391828 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

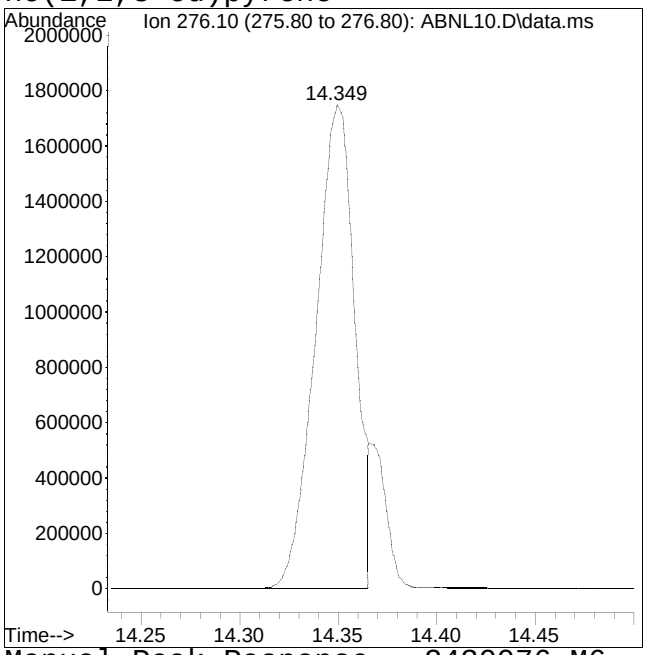
Manual Integration Report

Data Path : I:\8270\Dakota\240228ical\QMethod : FS240228LVIDakota.m
Data File : ABNL10.D Operator : Dakota:ljg
Date Inj'd : 2/28/2024 8:52 pm Instrument : Dakota
Sample : IL1,32,,ABNL50 Lot# 10522 Quant Date : 2/29/2024 8:56 am

Compound #111: Indeno(1,2,3-cd)pyrene



Original Peak Response = 2718382



Manual Peak Response = 2430076 M6

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240228ical\
Data File : ABNL9.D
Acq On : 28 Feb 2024 9:14 pm
Operator : Dakota:ljg
Sample : IL2,32,,ABNL35 Lot# 10523
Misc : WG1890771,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 29 09:17:58 2024
Quant Method : I:\8270\Dakota\240228ical\FS240228LVIDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Feb 29 08:54:57 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\240228ical\ABNL6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	4.873	152	23112	4.000	ug/ml	0.00
Standard Area 1 = 24358			Recovery = 94.88%			
33) IS1_Naphthalene-d8	6.107	136	79243	4.000	ug/ml #	0.00
Standard Area 1 = 83339			Recovery = 95.09%			
61) IS1_Acenaphthene-d10	7.816	164	49015	4.000	ug/ml	0.00
Standard Area 1 = 55337			Recovery = 88.58%			
85) IS1_Phenanthrene-d10	9.252	188	106346	4.000	ug/ml	0.00
Standard Area 1 = 117827			Recovery = 90.26%			
101) IS1_Chrysene-d12	11.907	240	111738	4.000	ug/ml	0.00
Standard Area 1 = 124719			Recovery = 89.59%			
110) IS1_Perylene-d12	13.377	264	137252	4.000	ug/ml	0.00
Standard Area 1 = 144564			Recovery = 94.94%			
System Monitoring Compounds						
4) 2-Fluorophenol	3.602	112	220935	37.573	ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 751.46%#			
7) Phenol-d6	4.544	99	291434	38.005	ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 760.10%#			
19) Nitrobenzene-d5	5.411	82	246888	36.034	ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 1441.36%#			
44) 2-Fluorobiphenyl	7.176	172	599239	35.169	ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 1406.76%#			
77) 2,4,6-Tribromophenol	8.581	330	117764	37.062	ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 741.24%#			
93) 4-Terphenyl-d14	10.834	244	946962	35.726	ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 1429.04%#			
Target Compounds						Qvalue
2) n-Nitrosodimethylamine	2.228	74	158924	38.403	ug/ml#	81
3) Pyridine	2.262	79	248990M3	37.422	ug/ml	
5) Aniline	4.553	93	333918	38.050	ug/ml#	42
6) 2-Chlorophenol	4.668	128	243026	37.189	ug/ml	92
8) Phenol	4.556	94	321148	37.626	ug/ml#	51
9) Bis(2-chloroethyl)ether	4.631	93	214208	35.978	ug/ml	99
10) 1,3-Dichlorobenzene	4.814	146	291497	35.886	ug/ml	95
11) 1,4-Dichlorobenzene	4.889	146	293620	35.632	ug/ml	95
12) 1,2-Dichlorobenzene	5.035	146	278253	34.865	ug/ml	94
13) Benzyl alcohol	5.019	79	199635	37.070	ug/ml	97
14) Bis(2-chloroisopropyl)...	5.159	45	423348	35.395	ug/ml#	73

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240228ical\
Data File : ABNL9.D
Acq On : 28 Feb 2024 9:14 pm
Operator : Dakota:ljg
Sample : IL2,32,,ABNL35 Lot# 10523
Misc : WG1890771,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 29 09:17:58 2024
Quant Method : I:\8270\Dakota\240228ical\FS240228LVIDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Feb 29 08:54:57 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\240228ical\ABNL6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
15) 2-Methylphenol	5.143	108	209817	37.282	ug/ml	98
16) Hexachloroethane	5.364	117	108154	36.572	ug/ml#	46
17) n-Nitrosodi-n-propylamine	5.286	70	172483	35.869	ug/ml#	88
18) 3-Methylphenol/4-Methy...	5.299	108	221774	36.029	ug/ml	98
20) Nitrobenzene	5.429	77	240548	36.247	ug/ml	98
21) Isophorone	5.669	82	442144	36.555	ug/ml	95
22) 2-Nitrophenol	5.743	139	124356	37.840	ug/ml	92
23) 2,4-Dimethylphenol	5.812	107	180778	36.385	ug/ml	98
24) Bis(2-chloroethoxy)met...	5.902	93	274427	35.699	ug/ml	99
25) 2,4-Dichlorophenol	5.979	162	234536	35.557	ug/ml#	92
26) 1,2,4-Trichlorobenzene	6.060	180	288031	34.879	ug/ml#	96
34) Naphthalene	6.129	128	676576	35.655	ug/ml	99
35) Benzoic Acid	5.924	105	172152	44.958	ug/ml	98
36) 4-Chloroaniline	6.194	65	87151	36.257	ug/ml	91
37) Hexachlorobutadiene	6.275	225	171369	36.282	ug/ml	100
38) p-Chloro-m-cresol	6.685	107	197754	36.506	ug/ml	92
39) 2-Methylnaphthalene	6.806	142	480352	36.212	ug/ml	96
40) 1-Methylnaphthalene	6.903	115	151573	35.255	ug/ml	94
41) Hexachlorocyclopentadiene	6.977	237	174292	38.066	ug/ml	99
42) 2,4,6-Trichlorophenol	7.092	196	197898	38.004	ug/ml	98
43) 2,4,5-Trichlorophenol	7.120	196	216968	37.685	ug/ml	98
45) 2-Chloronaphthalene	7.276	162	506469	35.527	ug/ml	92
46) 2-Nitroaniline	7.384	138	151046	38.342	ug/ml	86
47) 1,4-Dinitrobenzene	7.515	168	70922	42.700	ug/ml	80
48) 1,3-Dinitrobenzene	7.589	168	79864	40.634	ug/ml#	1
49) Dimethyl phthalate	7.583	163	587538	36.048	ug/ml#	98
50) Acenaphthylene	7.677	152	770824	34.985	ug/ml	98
51) 2,6-Dinitrotoluene	7.627	165	126134	38.466	ug/ml#	75
52) 1,2-Dinitrobenzene	7.673	168	51560	40.468	ug/ml#	1
62) 3-Nitroaniline	7.782	138	132985	37.682	ug/ml#	91
63) Acenaphthene	7.847	154	429459	34.990	ug/ml	92
64) 2,4-Dinitrophenol	7.885	184	81002	41.805	ug/ml#	81
65) Dibenzofuran	8.015	168	730979	34.726	ug/ml	89
66) 2,4-Dinitrotoluene	8.015	165	172125	37.885	ug/ml	89
67) 4-Nitrophenol	7.966	65	111247	38.217	ug/ml#	92
68) 2,3,5,6-Tetrachlorophenol	8.102	232	188319	36.823	ug/ml	98
69) 2,3,4,6-Tetrachlorophenol	8.146	232	179041	36.130	ug/ml	98
70) Diethyl phthalate	8.273	149	573861	35.682	ug/ml	99
71) Fluorene	8.348	166	564809	35.774	ug/ml	93
72) 4-Chlorophenyl phenyl ...	8.363	204	298979	35.188	ug/ml#	84

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240228ical\
Data File : ABNL9.D
Acq On : 28 Feb 2024 9:14 pm
Operator : Dakota:ljg
Sample : IL2,32,,ABNL35 Lot# 10523
Misc : WG1890771,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 29 09:17:58 2024
Quant Method : I:\8270\Dakota\240228ical\FS240228LVIDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Feb 29 08:54:57 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\240228ical\ABNL6.D
Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
73)	4-Nitroaniline	8.376	138	132470	36.664	ug/ml	87
74)	4,6-Dinitro-o-cresol	8.410	198	110826	41.868	ug/ml#	59
75)	NDPA/DPA	8.478	169	478752	35.158	ug/ml	93
76)	Azobenzene	8.513	77	494486	35.071	ug/ml	98
78)	4-Bromophenyl phenyl e...	8.833	248	198643	36.468	ug/ml#	79
79)	Hexachlorobenzene	8.889	284	238120	35.835	ug/ml#	78
80)	Pentachlorophenol	9.078	266	169496	38.559	ug/ml	98
86)	Phenanthrene	9.274	178	919539	35.405	ug/ml	99
87)	Anthracene	9.324	178	929380	35.667	ug/ml	98
88)	Carbazole	9.489	167	880005	35.563	ug/ml	99
89)	Di-n-butylphthalate	9.868	149	1047804	37.010	ug/ml	98
90)	Fluoranthene	10.430	202	1165821	36.698	ug/ml#	91
91)	Benzidine	10.579	184	724422	36.094	ug/ml#	95
92)	Pyrene	10.651	202	1195417	34.694	ug/ml	98
94)	Butyl benzyl phthalate	11.360	149	503851	39.777	ug/ml	87
102)	Benzo(a)anthracene	11.894	228	1309401	35.615	ug/ml	98
103)	3,3'-Dichlorobenzidine	11.891	252	553364	38.147	ug/ml#	96
104)	Chrysene	11.935	228	1195481	34.478	ug/ml	98
105)	Bis(2-ethylhexyl)phtha...	11.997	149	749722	36.904	ug/ml#	93
106)	Di-n-octylphthalate	12.677	149	1390426	39.971	ug/ml#	76
107)	Benzo(b)fluoranthene	13.013	252	1438388	36.684	ug/ml#	92
108)	Benzo(k)fluoranthene	13.038	252	1317221	34.953	ug/ml#	92
109)	Benzo(a)pyrene	13.327	252	1335697M4	36.806	ug/ml	
111)	Indeno(1,2,3-cd)pyrene	14.343	276	1560831M6	35.570	ug/mL	
112)	Dibenzo(a,h)anthracene	14.362	278	1455893	35.956	ug/ml#	87
113)	Benzo(ghi)perylene	14.564	276	1416868	36.223	ug/ml#	85

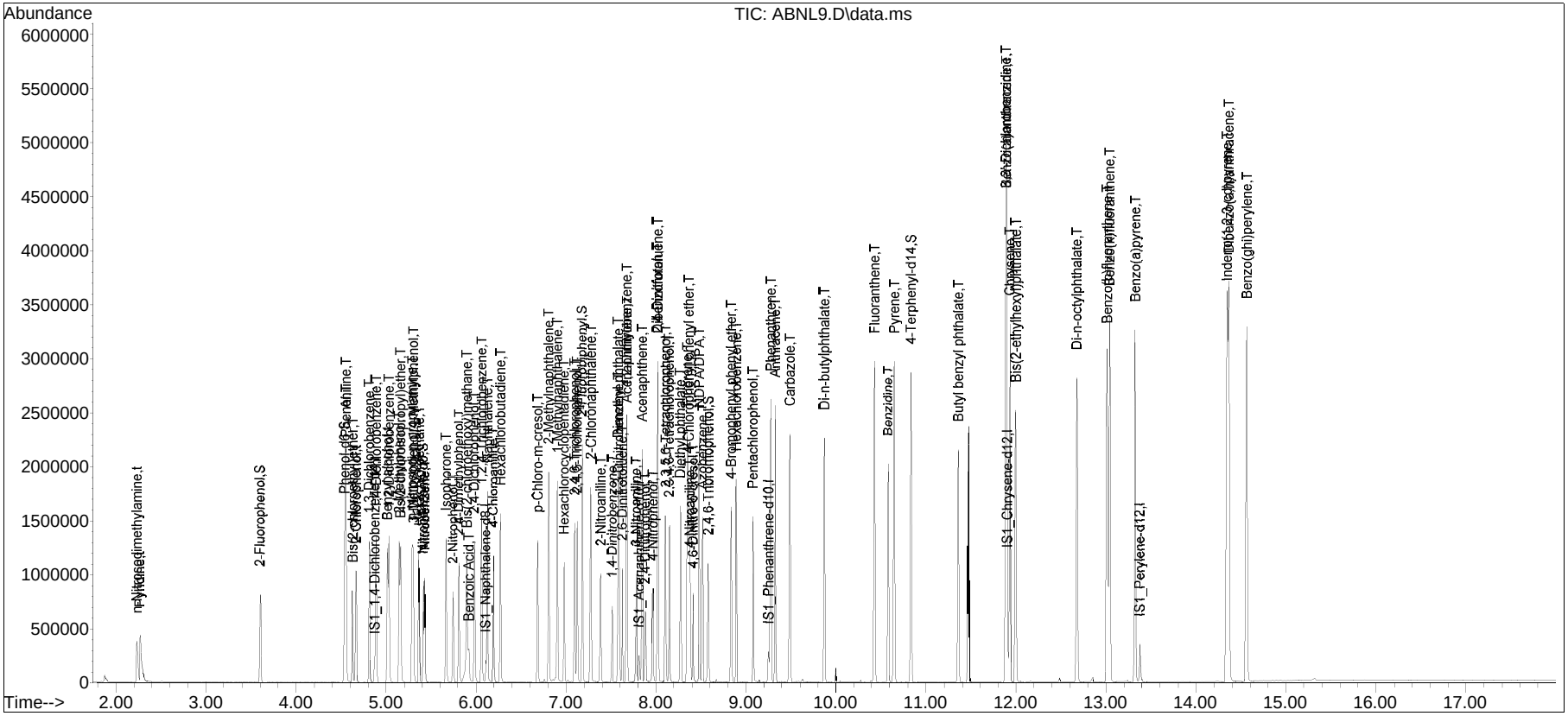
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240228ical\
Data File : ABNL9.D
Acq On : 28 Feb 2024 9:14 pm
Operator : Dakota:ljg
Sample : IL2,32,,ABNL35 Lot# 10523
Misc : WG1890771,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 29 09:17:58 2024
Quant Method : I:\8270\Dakota\240228ical\FS240228LVIDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Feb 29 08:54:57 2024
Response via : Initial Calibration

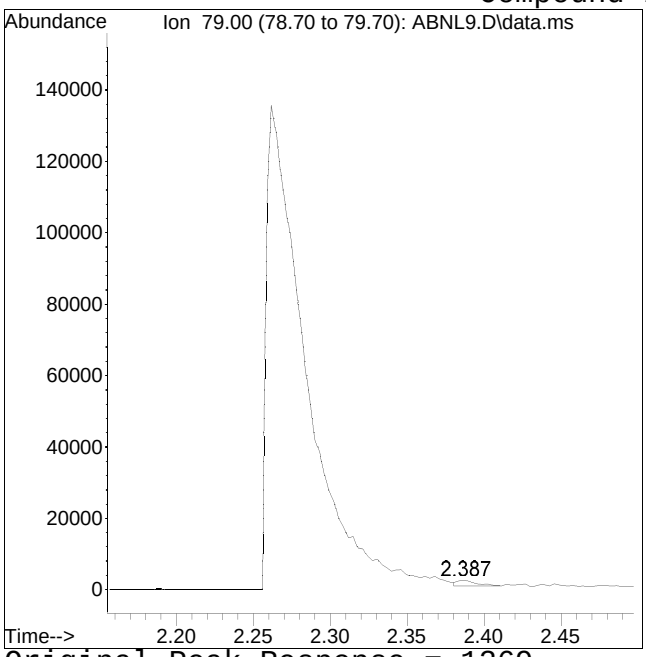
Sub List : ABNical - ABN ical sublistcal\ABNL6.D•

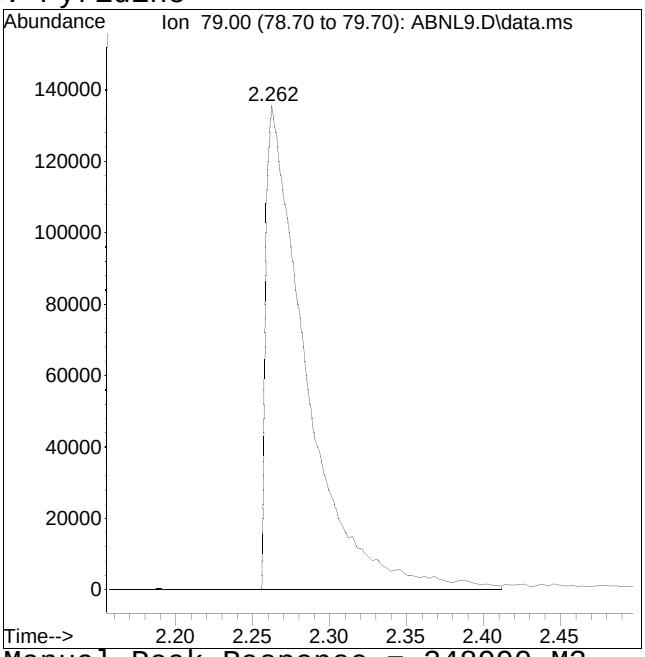


Manual Integration Report

Data Path : I:\8270\Dakota\240228ical\QMethod : FS240228LVIDakota.m
Data File : ABNL9.D Operator : Dakota:ljg
Date Inj'd : 2/28/2024 9:14 pm Instrument : Dakota
Sample : IL2,32,,ABNL35 Lot# 10523 Quant Date : 2/29/2024 8:56 am

Compound #3: Pyridine



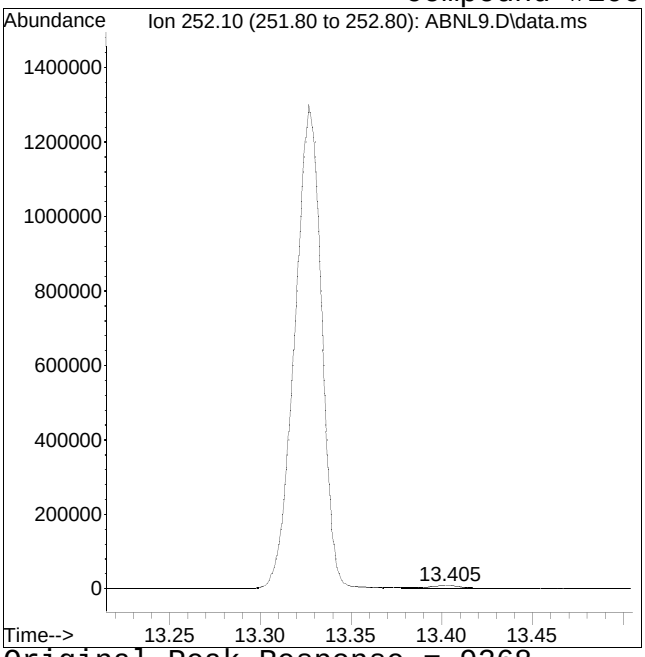


Original Peak Response = 1269 Manual Peak Response = 248990 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

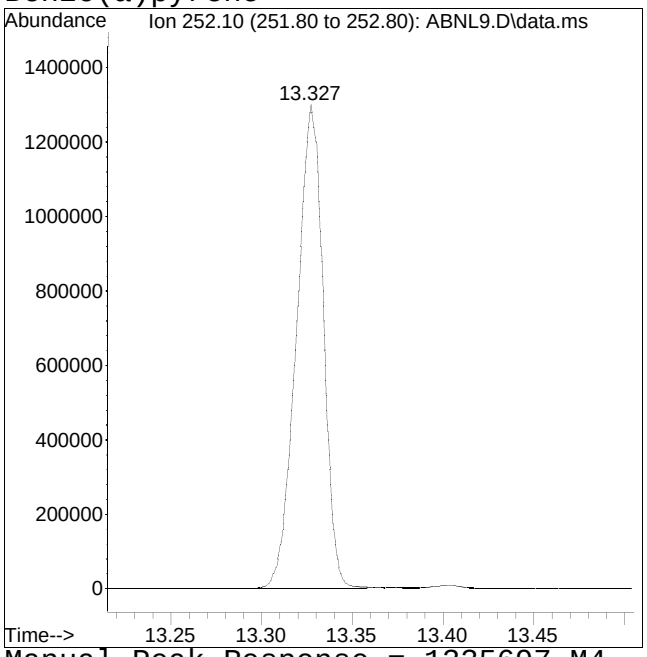
Manual Integration Report

Data Path : I:\8270\Dakota\240228ical\QMethod : FS240228LVIDakota.m
Data File : ABNL9.D Operator : Dakota:ljg
Date Inj'd : 2/28/2024 9:14 pm Instrument : Dakota
Sample : IL2,32,,ABNL35 Lot# 10523 Quant Date : 2/29/2024 8:56 am

Compound #109: Benzo(a)pyrene



Original Peak Response = 9268



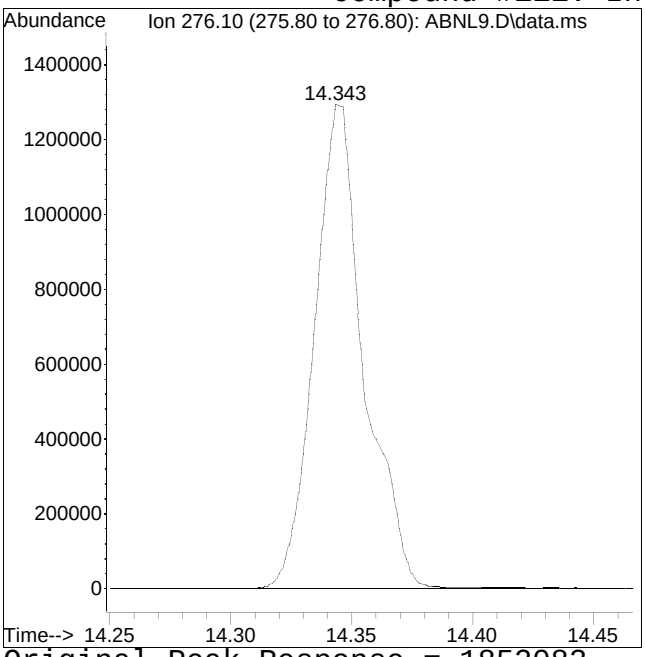
Manual Peak Response = 1335697 M4

M4 = Poor automated baseline construction.

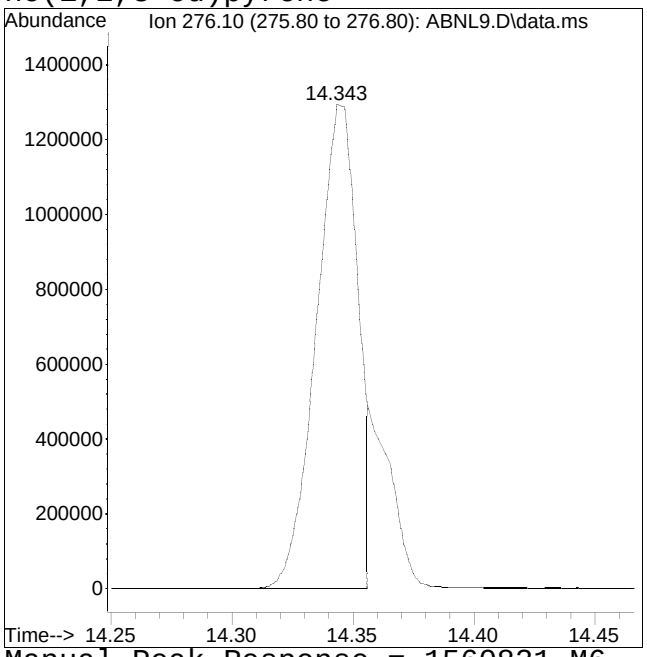
Manual Integration Report

Data Path : I:\8270\Dakota\240228ical\QMethod : FS240228LVIDakota.m
Data File : ABNL9.D Operator : Dakota:ljg
Date Inj'd : 2/28/2024 9:14 pm Instrument : Dakota
Sample : IL2,32,,ABNL35 Lot# 10523 Quant Date : 2/29/2024 8:56 am

Compound #111: Indeno(1,2,3-cd)pyrene



Original Peak Response = 1852083



Manual Peak Response = 1560831 M6

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240228ical\
Data File : ABNL8.D
Acq On : 28 Feb 2024 9:37 pm
Operator : Dakota:ljg
Sample : IL3,32,,ABNL15 Lot# 10524
Misc : WG1890771,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Feb 29 09:16:55 2024
Quant Method : I:\8270\Dakota\240228ical\FS240228LVIDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Feb 29 08:54:57 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\240228ical\ABNL6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	4.870	152	24618	4.000	ug/ml	# 0.00
Standard Area 1 = 24358			Recovery = 101.07%			
33) IS1_Naphthalene-d8	6.107	136	86266	4.000	ug/ml	# 0.00
Standard Area 1 = 83339			Recovery = 103.51%			
61) IS1_Acenaphthene-d10	7.816	164	55240	4.000	ug/ml	0.00
Standard Area 1 = 55337			Recovery = 99.82%			
85) IS1_Phenanthrene-d10	9.249	188	113718	4.000	ug/ml	0.00
Standard Area 1 = 117827			Recovery = 96.51%			
101) IS1_Chrysene-d12	11.903	240	116200	4.000	ug/ml	0.00
Standard Area 1 = 124719			Recovery = 93.17%			
110) IS1_Perylene-d12	13.377	264	139698	4.000	ug/ml	0.00
Standard Area 1 = 144564			Recovery = 96.63%			
System Monitoring Compounds						
4) 2-Fluorophenol	3.602	112	117762	18.802	ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 376.04%#			
7) Phenol-d6	4.543	99	156757	19.192	ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 383.84%#			
19) Nitrobenzene-d5	5.411	82	136708	18.732	ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 749.28%#			
44) 2-Fluorobiphenyl	7.176	172	329601	17.769	ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 710.76%#			
77) 2,4,6-Tribromophenol	8.581	330	63213	17.652	ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 353.04%#			
93) 4-Terphenyl-d14	10.831	244	509192	17.965	ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 718.60%#			
Target Compounds						Qvalue
2) n-Nitrosodimethylamine	2.231	74	84883	19.257	ug/ml	83
3) Pyridine	2.268	79	126108	17.794	ug/ml#	69
5) Aniline	4.553	93	179652	19.219	ug/ml#	41
6) 2-Chlorophenol	4.665	128	132264	19.002	ug/ml	92
8) Phenol	4.553	94	173501	19.084	ug/ml#	51
9) Bis(2-chloroethyl)ether	4.631	93	117646	18.551	ug/ml	99
10) 1,3-Dichlorobenzene	4.814	146	160723	18.576	ug/ml	96
11) 1,4-Dichlorobenzene	4.888	146	162401	18.502	ug/ml	95
12) 1,2-Dichlorobenzene	5.035	146	154709	18.199	ug/ml	95
13) Benzyl alcohol	5.019	79	108943	18.992	ug/ml	97
14) Bis(2-chloroisopropyl)...	5.159	45	234788	18.429	ug/ml#	83

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240228ical\
Data File : ABNL8.D
Acq On : 28 Feb 2024 9:37 pm
Operator : Dakota:ljg
Sample : IL3,32,,ABNL15 Lot# 10524
Misc : WG1890771,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Feb 29 09:16:55 2024
Quant Method : I:\8270\Dakota\240228ical\FS240228LVIDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Feb 29 08:54:57 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\240228ical\ABNL6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
15) 2-Methylphenol	5.143	108	116573	19.446	ug/ml	99
16) Hexachloroethane	5.364	117	58705	18.637	ug/ml#	46
17) n-Nitrosodi-n-propylamine	5.283	70	94251	18.401	ug/ml#	87
18) 3-Methylphenol/4-Methy...	5.299	108	120549	18.386	ug/ml	97
20) Nitrobenzene	5.429	77	133168	18.839	ug/ml	98
21) Isophorone	5.669	82	243709	18.916	ug/ml	94
22) 2-Nitrophenol	5.743	139	66117	18.888	ug/ml	91
23) 2,4-Dimethylphenol	5.812	107	97499	18.423	ug/ml	98
24) Bis(2-chloroethoxy)met...	5.899	93	149328	18.237	ug/ml	98
25) 2,4-Dichlorophenol	5.979	162	127750	18.183	ug/ml#	93
26) 1,2,4-Trichlorobenzene	6.060	180	158568	18.027	ug/ml#	96
34) Naphthalene	6.129	128	380438	18.416	ug/ml	99
35) Benzoic Acid	5.902	105	87091	20.893	ug/ml	96
36) 4-Chloroaniline	6.194	65	47989	18.339	ug/ml	91
37) Hexachlorobutadiene	6.275	225	95333	18.540	ug/ml	99
38) p-Chloro-m-cresol	6.685	107	109292	18.533	ug/ml	94
39) 2-Methylnaphthalene	6.806	142	267395	18.517	ug/ml	97
40) 1-Methylnaphthalene	6.899	115	84829	18.124	ug/ml	97
41) Hexachlorocyclopentadiene	6.977	237	93491	18.756	ug/ml	99
42) 2,4,6-Trichlorophenol	7.092	196	107965	19.046	ug/ml	98
43) 2,4,5-Trichlorophenol	7.120	196	118037	18.833	ug/ml	97
45) 2-Chloronaphthalene	7.276	162	281480	18.137	ug/ml#	92
46) 2-Nitroaniline	7.381	138	80263	18.716	ug/ml	87
47) 1,4-Dinitrobenzene	7.512	168	35923	19.868	ug/ml	83
48) 1,3-Dinitrobenzene	7.589	168	42088	19.671	ug/ml#	1
49) Dimethyl phthalate	7.580	163	323270	18.219	ug/ml#	98
50) Acenaphthylene	7.673	152	431608	17.995	ug/ml	99
51) 2,6-Dinitrotoluene	7.624	165	67616	18.942	ug/ml#	78
52) 1,2-Dinitrobenzene	7.670	168	26141	18.847	ug/ml#	1
62) 3-Nitroaniline	7.782	138	71379	17.947	ug/ml#	91
63) Acenaphthene	7.847	154	237925	17.201	ug/ml	93
64) 2,4-Dinitrophenol	7.882	184	41338	18.930	ug/ml#	81
65) Dibenzofuran	8.015	168	411834	17.360	ug/ml	89
66) 2,4-Dinitrotoluene	8.012	165	93475	18.256	ug/ml	90
67) 4-Nitrophenol	7.962	65	60780	18.527	ug/ml	95
68) 2,3,5,6-Tetrachlorophenol	8.102	232	101879	17.676	ug/ml	99
69) 2,3,4,6-Tetrachlorophenol	8.143	232	97774	17.507	ug/ml	97
70) Diethyl phthalate	8.270	149	314938	17.376	ug/ml	99
71) Fluorene	8.348	166	314145	17.655	ug/ml	93
72) 4-Chlorophenyl phenyl ...	8.360	204	166832	17.422	ug/ml#	83

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240228ical\
Data File : ABNL8.D
Acq On : 28 Feb 2024 9:37 pm
Operator : Dakota:ljg
Sample : IL3,32,,ABNL15 Lot# 10524
Misc : WG1890771,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Feb 29 09:16:55 2024
Quant Method : I:\8270\Dakota\240228ical\FS240228LVIDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Feb 29 08:54:57 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\240228ical\ABNL6.D
Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
73)	4-Nitroaniline	8.370	138	70162	17.230	ug/ml	89
74)	4,6-Dinitro-o-cresol	8.407	198	55632	18.648	ug/ml#	62
75)	NDPA/DPA	8.475	169	262738	17.120	ug/ml	92
76)	Azobenzene	8.513	77	278734	17.541	ug/ml	98
78)	4-Bromophenyl phenyl e...	8.833	248	107438	17.502	ug/ml#	79
79)	Hexachlorobenzene	8.886	284	129398	17.279	ug/ml#	79
80)	Pentachlorophenol	9.078	266	90239	18.215	ug/ml	99
86)	Phenanthrene	9.271	178	507305	18.266	ug/ml	99
87)	Anthracene	9.321	178	507552	18.216	ug/ml	98
88)	Carbazole	9.485	167	474014	17.914	ug/ml	99
89)	Di-n-butylphthalate	9.865	149	571172	18.867	ug/ml	98
90)	Fluoranthene	10.427	202	634209	18.670	ug/ml#	91
91)	Benzidine	10.576	184	404740	18.858	ug/ml#	95
92)	Pyrene	10.648	202	653127	17.727	ug/ml	98
94)	Butyl benzyl phthalate	11.356	149	258863	19.112	ug/ml	86
102)	Benzo(a)anthracene	11.894	228	691783	18.094	ug/ml	99
103)	3,3'-Dichlorobenzidine	11.888	252	283750	18.810	ug/ml#	96
104)	Chrysene	11.931	228	640146	17.753	ug/ml	98
105)	Bis(2-ethylhexyl)phtha...	11.994	149	395252	18.709	ug/ml#	93
106)	Di-n-octylphthalate	12.674	149	681930	18.851	ug/ml#	76
107)	Benzo(b)fluoranthene	13.007	252	719416	17.643	ug/ml#	92
108)	Benzo(k)fluoranthene	13.035	252	716961	18.294	ug/ml#	92
109)	Benzo(a)pyrene	13.324	252	683336M6	18.107	ug/ml	
111)	Indeno(1,2,3-cd)pyrene	14.337	276	804311M6	18.009	ug/mL	
112)	Dibenzo(a,h)anthracene	14.356	278	745641	18.093	ug/ml#	88
113)	Benzo(ghi)perylene	14.558	276	731504	18.374	ug/ml#	84

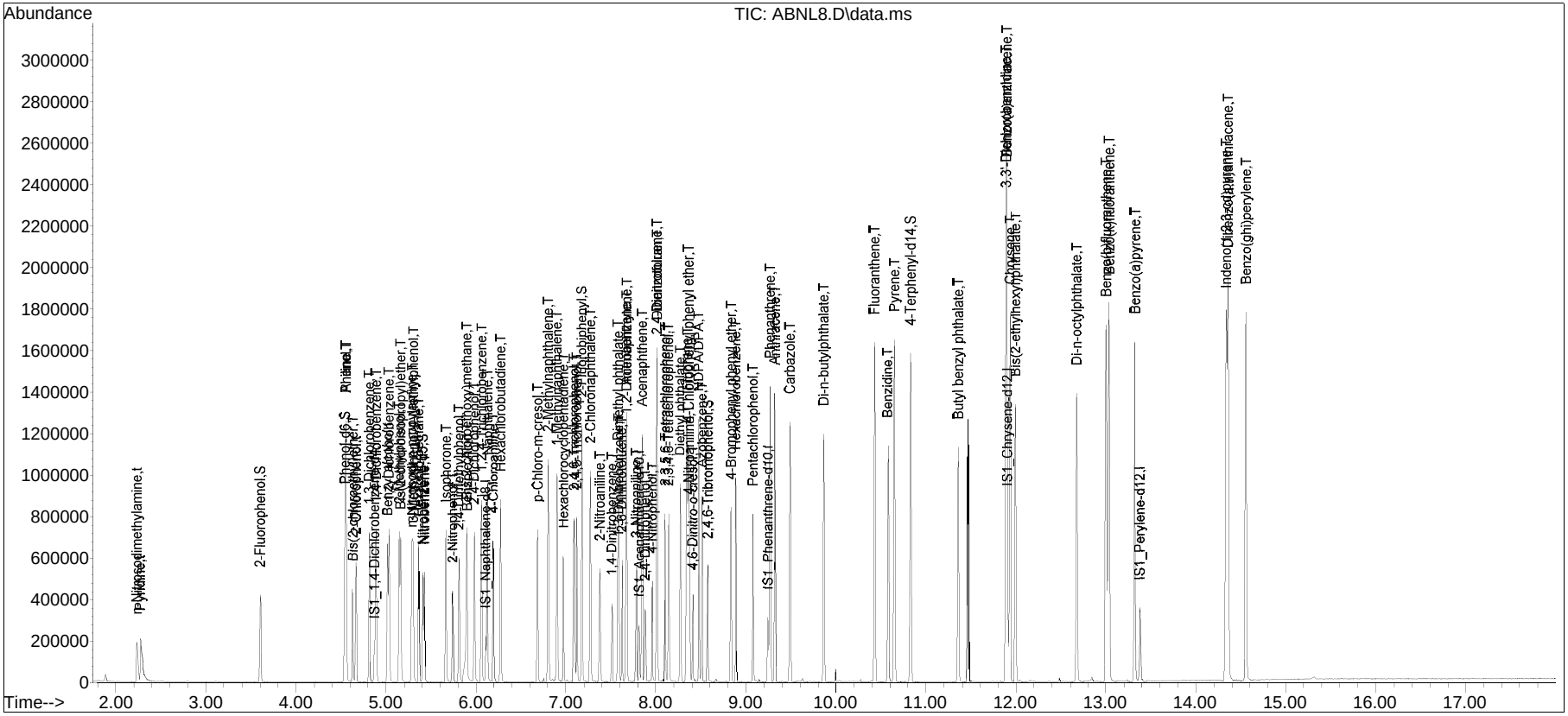
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240228ical\
Data File : ABNL8.D
Acq On : 28 Feb 2024 9:37 pm
Operator : Dakota:ljg
Sample : IL3,32,,ABNL15 Lot# 10524
Misc : WG1890771,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Feb 29 09:16:55 2024
Quant Method : I:\8270\Dakota\240228ical\FS240228LVIDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Feb 29 08:54:57 2024
Response via : Initial Calibration

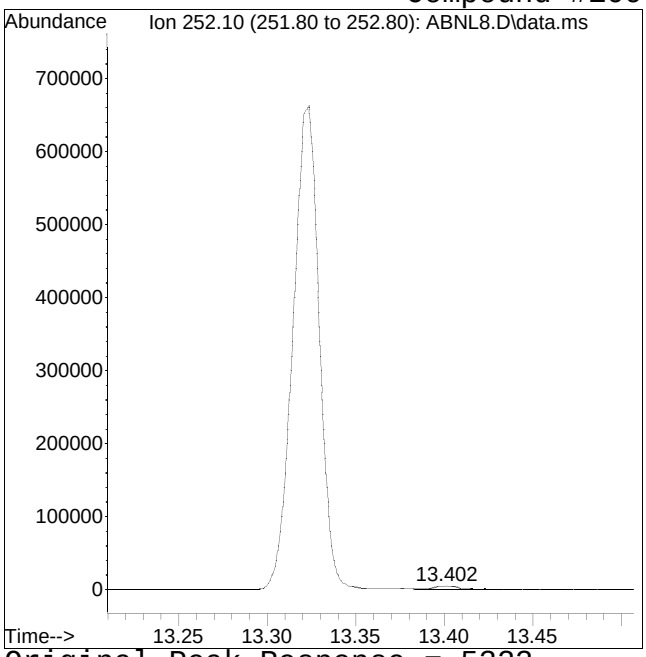
Sub List : ABNical - ABN ical sublistcal\ABNL6.D•



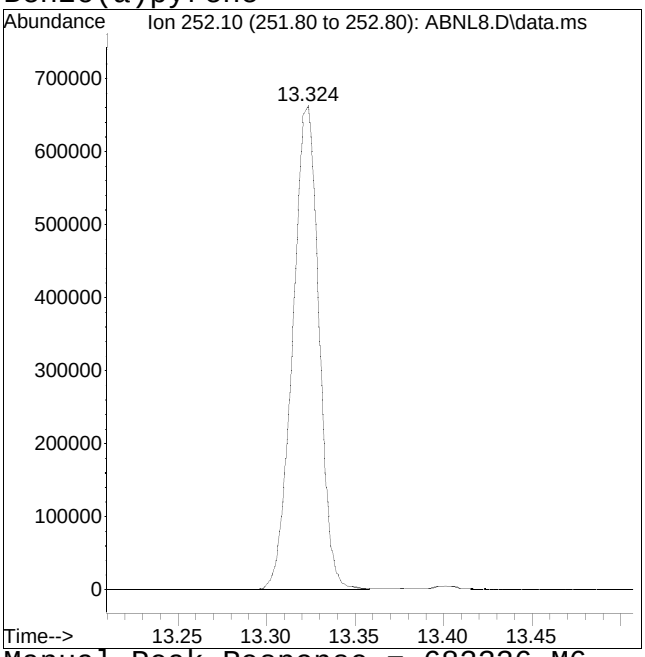
Manual Integration Report

Data Path : I:\8270\Dakota\240228ical\QMethod : FS240228LVIDakota.m
Data File : ABNL8.D Operator : Dakota:ljg
Date Inj'd : 2/28/2024 9:37 pm Instrument : Dakota
Sample : IL3,32,,ABNL15 Lot# 10524 Quant Date : 2/29/2024 8:56 am

Compound #109: Benzo(a)pyrene



Original Peak Response = 5323



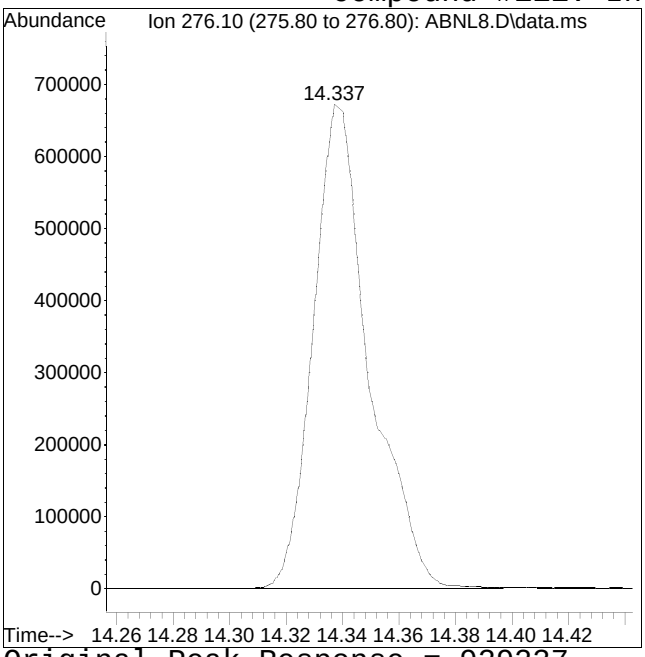
Manual Peak Response = 683336 M6

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

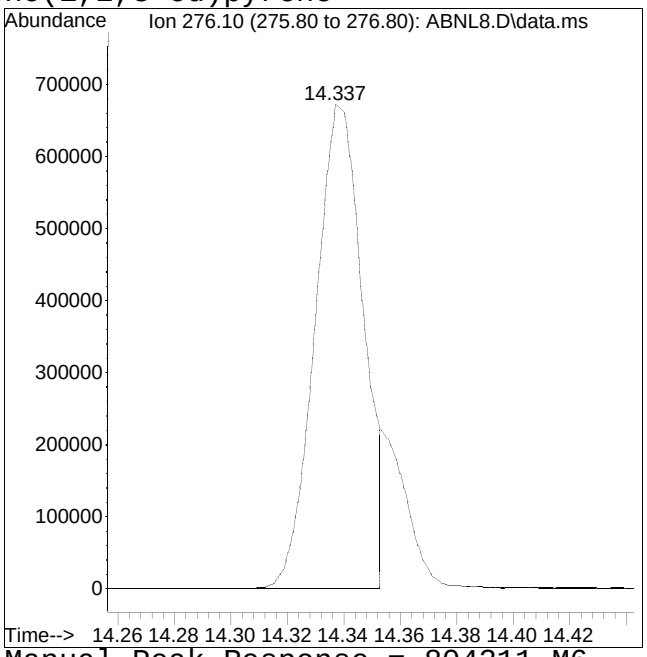
Manual Integration Report

Data Path : I:\8270\Dakota\240228ical\QMethod : FS240228LVIDakota.m
Data File : ABNL8.D Operator : Dakota:ljg
Date Inj'd : 2/28/2024 9:37 pm Instrument : Dakota
Sample : IL3,32,,ABNL15 Lot# 10524 Quant Date : 2/29/2024 8:56 am

Compound #111: Indeno(1,2,3-cd)pyrene



Original Peak Response = 929237



Manual Peak Response = 804311 M6

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240228ical\
Data File : ABNL7.D
Acq On : 28 Feb 2024 9:59 pm
Operator : Dakota:ljg
Sample : IL4,32,,ABNL10 Lot# 10525
Misc : WG1890771,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 29 09:11:34 2024
Quant Method : I:\8270\Dakota\240228ical\FS240228LVIDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Feb 29 08:54:57 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\240228ical\ABNL6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	4.870	152	24448	4.000	ug/ml	0.00
Standard Area 1 = 24358			Recovery = 100.37%			
33) IS1_Naphthalene-d8	6.107	136	85382	4.000	ug/ml #	0.00
Standard Area 1 = 83339			Recovery = 102.45%			
61) IS1_Acenaphthene-d10	7.816	164	52458	4.000	ug/ml	0.00
Standard Area 1 = 55337			Recovery = 94.80%			
85) IS1_Phenanthrene-d10	9.249	188	113680	4.000	ug/ml	0.00
Standard Area 1 = 117827			Recovery = 96.48%			
101) IS1_Chrysene-d12	11.904	240	117327	4.000	ug/ml	0.00
Standard Area 1 = 124719			Recovery = 94.07%			
110) IS1_Perylene-d12	13.377	264	142967	4.000	ug/ml	0.00
Standard Area 1 = 144564			Recovery = 98.90%			
System Monitoring Compounds						
4) 2-Fluorophenol	3.602	112	62201	10.000	ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 200.00%#			
7) Phenol-d6	4.540	99	81116	10.000	ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 200.00%#			
19) Nitrobenzene-d5	5.411	82	72476	10.000	ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 400.00%#			
44) 2-Fluorobiphenyl	7.176	172	183591	10.000	ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 400.00%#			
77) 2,4,6-Tribromophenol	8.578	330	34007	10.000	ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 200.00%#			
93) 4-Terphenyl-d14	10.831	244	283026	9.989	ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 399.56%#			
Target Compounds						Qvalue
2) n-Nitrosodimethylamine	2.234	74	43771	9.999	ug/ml	87
3) Pyridine	2.278	79	69033	9.808	ug/ml#	67
5) Aniline	4.553	93	92830	10.000	ug/ml#	41
6) 2-Chlorophenol	4.665	128	69126	10.000	ug/ml	92
8) Phenol	4.553	94	90311	10.003	ug/ml#	52
9) Bis(2-chloroethyl)ether	4.631	93	62980	10.000	ug/ml	99
10) 1,3-Dichlorobenzene	4.814	146	85923	10.000	ug/ml	94
11) 1,4-Dichlorobenzene	4.889	146	87168	10.000	ug/ml	95
12) 1,2-Dichlorobenzene	5.035	146	84422	10.000	ug/ml	94
13) Benzyl alcohol	5.019	79	56967	10.000	ug/ml	97
14) Bis(2-chloroisopropyl)...	5.159	45	126522	10.000	ug/ml#	72

Data Path : I:\8270\Dakota\240228ical\
Data File : ABNL7.D
Acq On : 28 Feb 2024 9:59 pm
Operator : Dakota:ljg
Sample : IL4,32,,ABNL10 Lot# 10525
Misc : WG1890771,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 29 09:11:34 2024
Quant Method : I:\8270\Dakota\240228ical\FS240228LVIDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Feb 29 08:54:57 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\240228ical\ABNL6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
15) 2-Methylphenol	5.143	108	59532	10.000	ug/ml	95
16) Hexachloroethane	5.364	117	31282	10.000	ug/ml#	47
17) n-Nitrosodi-n-propylamine	5.286	70	50640	9.955	ug/ml#	88
18) 3-Methylphenol/4-Methy...	5.296	108	65112	10.000	ug/ml	97
20) Nitrobenzene	5.429	77	70199	10.000	ug/ml	98
21) Isophorone	5.669	82	127945	10.000	ug/ml	94
22) 2-Nitrophenol	5.743	139	34763	10.000	ug/ml	93
23) 2,4-Dimethylphenol	5.809	107	52557	10.000	ug/ml	99
24) Bis(2-chloroethoxy)met...	5.899	93	81317	10.000	ug/ml	98
25) 2,4-Dichlorophenol	5.980	162	69774	10.000	ug/ml#	92
26) 1,2,4-Trichlorobenzene	6.060	180	87353	10.000	ug/ml#	94
34) Naphthalene	6.126	128	204459	10.000	ug/ml	99
35) Benzoic Acid	5.883	105	41258	10.000	ug/ml	92
36) 4-Chloroaniline	6.194	65	25899	10.000	ug/ml	93
37) Hexachlorobutadiene	6.275	225	50892	10.000	ug/ml	99
38) p-Chloro-m-cresol	6.685	107	58367	10.000	ug/ml	94
39) 2-Methylnaphthalene	6.806	142	142925	10.000	ug/ml	98
40) 1-Methylnaphthalene	6.903	115	45976	9.925	ug/ml	94
41) Hexachlorocyclopentadiene	6.977	237	49334	10.000	ug/ml	97
42) 2,4,6-Trichlorophenol	7.089	196	56107	10.000	ug/ml	98
43) 2,4,5-Trichlorophenol	7.120	196	62034	10.000	ug/ml	99
45) 2-Chloronaphthalene	7.276	162	152674	9.939	ug/ml#	92
46) 2-Nitroaniline	7.381	138	42446	10.000	ug/ml	85
47) 1,4-Dinitrobenzene	7.512	168	17896	10.000	ug/ml	89
48) 1,3-Dinitrobenzene	7.586	168	21181	10.002	ug/ml#	1
49) Dimethyl phthalate	7.580	163	175613	10.000	ug/ml#	97
50) Acenaphthylene	7.673	152	237396	10.000	ug/ml	99
51) 2,6-Dinitrotoluene	7.624	165	35331	10.000	ug/ml#	77
52) 1,2-Dinitrobenzene	7.667	168	13700	9.980	ug/ml#	1
62) 3-Nitroaniline	7.779	138	37770	10.000	ug/ml#	89
63) Acenaphthene	7.844	154	131358	10.000	ug/ml	93
64) 2,4-Dinitrophenol	7.882	184	20737	10.000	ug/ml#	81
65) Dibenzofuran	8.015	168	225283	10.000	ug/ml	88
66) 2,4-Dinitrotoluene	8.012	165	48625	10.000	ug/ml	91
67) 4-Nitrophenol	7.959	65	31154	10.000	ug/ml	94
68) 2,3,5,6-Tetrachlorophenol	8.099	232	54734	10.000	ug/ml	97
69) 2,3,4,6-Tetrachlorophenol	8.143	232	52952	9.984	ug/ml	99
70) Diethyl phthalate	8.270	149	172125	10.000	ug/ml	99
71) Fluorene	8.348	166	168975	10.000	ug/ml	92
72) 4-Chlorophenyl phenyl ...	8.360	204	90935	10.000	ug/ml#	83

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240228ical\
Data File : ABNL7.D
Acq On : 28 Feb 2024 9:59 pm
Operator : Dakota:ljg
Sample : IL4,32,,ABNL10 Lot# 10525
Misc : WG1890771,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 29 09:11:34 2024
Quant Method : I:\8270\Dakota\240228ical\FS240228LVIDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Feb 29 08:54:57 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\240228ical\ABNL6.D
Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
73)	4-Nitroaniline	8.370	138	38669	10.000	ug/ml		87
74)	4,6-Dinitro-o-cresol	8.404	198	28330	10.000	ug/ml	#	63
75)	NDPA/DPA	8.475	169	145736	10.000	ug/ml		93
76)	Azobenzene	8.513	77	150901	10.000	ug/ml		97
78)	4-Bromophenyl phenyl e...	8.833	248	58292	9.999	ug/ml	#	80
79)	Hexachlorobenzene	8.886	284	71117	10.000	ug/ml	#	78
80)	Pentachlorophenol	9.078	266	47045	10.000	ug/ml		99
86)	Phenanthrene	9.271	178	277589	9.998	ug/ml		99
87)	Anthracene	9.321	178	278086	9.984	ug/ml		99
88)	Carbazole	9.485	167	264474	9.998	ug/ml		99
89)	Di-n-butylphthalate	9.865	149	302588	9.998	ug/ml	#	98
90)	Fluoranthene	10.427	202	338958	9.981	ug/ml	#	91
91)	Benzidine	10.576	184	218028	10.162	ug/ml	#	94
92)	Pyrene	10.648	202	367471	9.977	ug/ml		100
94)	Butyl benzyl phthalate	11.357	149	135442	10.003	ug/ml		86
102)	Benzo(a)anthracene	11.891	228	385995	9.999	ug/ml		100
103)	3,3'-Dichlorobenzidine	11.888	252	152042	9.982	ug/ml	#	96
104)	Chrysene	11.928	228	363060	9.972	ug/ml		99
105)	Bis(2-ethylhexyl)phtha...	11.994	149	213180	9.994	ug/ml	#	92
106)	Di-n-octylphthalate	12.674	149	364332	9.975	ug/ml	#	77
107)	Benzo(b)fluoranthene	13.004	252	411602	9.997	ug/ml	#	92
108)	Benzo(k)fluoranthene	13.032	252	393453	9.943	ug/ml	#	92
109)	Benzo(a)pyrene	13.321	252	381215	10.004	ug/ml	#	92
111)	Indeno(1,2,3-cd)pyrene	14.337	276	455049M6	9.956	ug/mL		
112)	Dibenzo(a,h)anthracene	14.356	278	420305	9.965	ug/ml	#	87
113)	Benzo(ghi)perylene	14.555	276	408413	10.024	ug/ml	#	84

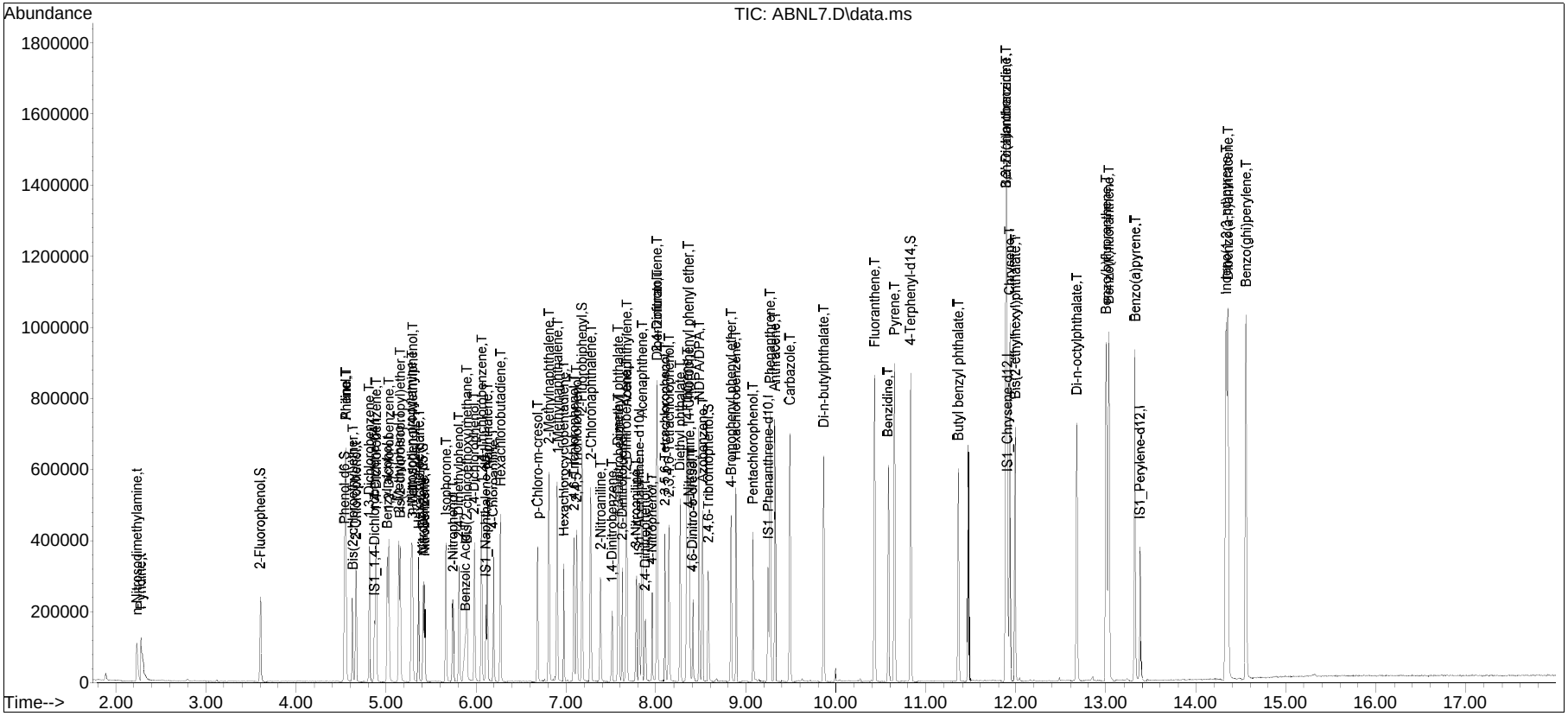
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240228ical\
Data File : ABNL7.D
Acq On : 28 Feb 2024 9:59 pm
Operator : Dakota:ljg
Sample : IL4,32,,ABNL10 Lot# 10525
Misc : WG1890771,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 29 09:11:34 2024
Quant Method : I:\8270\Dakota\240228ical\FS240228LVIDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Feb 29 08:54:57 2024
Response via : Initial Calibration

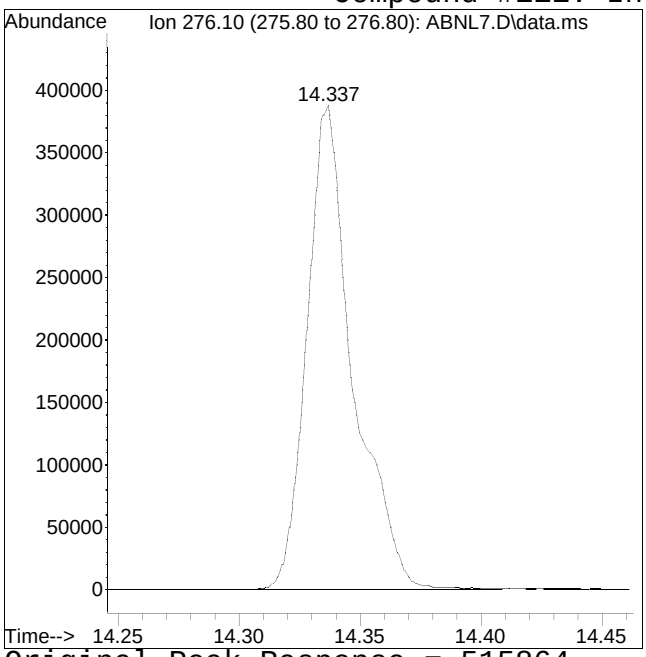
Sub List : ABNical - ABN ical sublistcal\ABNL6.D•



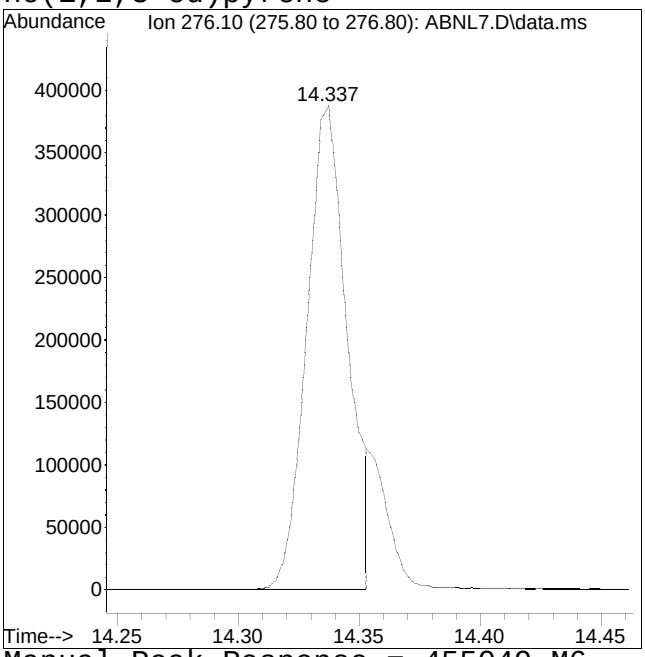
Manual Integration Report

Data Path : I:\8270\Dakota\240228ical\QMethod : FS240228LVIDakota.m
Data File : ABNL7.D Operator : Dakota:ljg
Date Inj'd : 2/28/2024 9:59 pm Instrument : Dakota
Sample : IL4,32,,ABNL10 Lot# 10525 Quant Date : 2/29/2024 8:56 am

Compound #111: Indeno(1,2,3-cd)pyrene



Original Peak Response = 515864



Manual Peak Response = 455049 M6

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240228ical\
Data File : ABNL6.D
Acq On : 28 Feb 2024 10:22 pm
Operator : Dakota:ljg
Sample : IL5,32,,ABNL5 Lot# 10526
Misc : WG1890771,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 29 09:05:56 2024
Quant Method : I:\8270\Dakota\240228ical\FS240228LVIDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Feb 29 08:54:57 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\240228ical\ABNL6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	4.870	152	24358	4.000	ug/ml	0.00
Standard Area 1 = 24358			Recovery = 100.00%			
33) IS1_Naphthalene-d8	6.107	136	83339	4.000	ug/ml #	0.00
Standard Area 1 = 83339			Recovery = 100.00%			
61) IS1_Acenaphthene-d10	7.813	164	55337	4.000	ug/ml	0.00
Standard Area 1 = 55337			Recovery = 100.00%			
85) IS1_Phenanthrene-d10	9.249	188	117827	4.000	ug/ml	0.00
Standard Area 1 = 117827			Recovery = 100.00%			
101) IS1_Chrysene-d12	11.900	240	124719	4.000	ug/ml	0.00
Standard Area 1 = 124719			Recovery = 100.00%			
110) IS1_Perylene-d12	13.377	264	144564	4.000	ug/ml	0.00
Standard Area 1 = 144564			Recovery = 100.00%			
System Monitoring Compounds						
4) 2-Fluorophenol	3.602	112	31029	5.007	ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 100.14%			
7) Phenol-d6	4.540	99	40663	5.031	ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 100.62%			
19) Nitrobenzene-d5	5.410	82	37052	5.131	ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 205.24%#			
44) 2-Fluorobiphenyl	7.176	172	93060	5.193	ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 207.72%#			
77) 2,4,6-Tribromophenol	8.581	330	17411	4.853	ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 97.06%			
93) 4-Terphenyl-d14	10.831	244	153025	5.211	ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 208.44%#			
Target Compounds						Qvalue
2) n-Nitrosodimethylamine	2.237	74	22342	5.123	ug/ml#	82
3) Pyridine	2.293	79	33302	4.749	ug/ml#	71
5) Aniline	4.553	93	47442	5.130	ug/ml#	42
6) 2-Chlorophenol	4.665	128	34779	5.050	ug/ml	94
8) Phenol	4.553	94	46523	5.172	ug/ml#	53
9) Bis(2-chloroethyl)ether	4.630	93	31242	4.979	ug/ml	97
10) 1,3-Dichlorobenzene	4.817	146	44541	5.203	ug/ml	97
11) 1,4-Dichlorobenzene	4.888	146	44094	5.077	ug/ml	96
12) 1,2-Dichlorobenzene	5.034	146	41987	4.992	ug/ml	92
13) Benzyl alcohol	5.019	79	28198	4.968	ug/ml	97
14) Bis(2-chloroisopropyl)...	5.159	45	65820	5.221	ug/ml#	97

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240228ical\
Data File : ABNL6.D
Acq On : 28 Feb 2024 10:22 pm
Operator : Dakota:ljg
Sample : IL5,32,,ABNL5 Lot# 10526
Misc : WG1890771,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 29 09:05:56 2024
Quant Method : I:\8270\Dakota\240228ical\FS240228LVIDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Feb 29 08:54:57 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\240228ical\ABNL6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
15) 2-Methylphenol	5.143	108	31437	5.300	ug/ml	99
16) Hexachloroethane	5.364	117	16067	5.155	ug/ml#	44
17) n-Nitrosodi-n-propylamine	5.283	70	25079	4.949	ug/ml#	88
18) 3-Methylphenol/4-Methy...	5.295	108	32652	5.033	ug/ml	95
20) Nitrobenzene	5.429	77	35819	5.121	ug/ml	99
21) Isophorone	5.668	82	67252	5.276	ug/ml#	94
22) 2-Nitrophenol	5.743	139	16835	4.861	ug/ml	94
23) 2,4-Dimethylphenol	5.811	107	26367	5.035	ug/ml	99
24) Bis(2-chloroethoxy)met...	5.898	93	41401	5.110	ug/ml#	95
25) 2,4-Dichlorophenol	5.979	162	35536	5.112	ug/ml#	92
26) 1,2,4-Trichlorobenzene	6.060	180	44300	5.090	ug/ml#	97
34) Naphthalene	6.125	128	107306	5.377	ug/ml	98
35) Benzoic Acid	5.870	105	17703	4.396	ug/ml	93
36) 4-Chloroaniline	6.194	65	13959	5.522	ug/ml	99
37) Hexachlorobutadiene	6.275	225	27102	5.456	ug/ml	99
38) p-Chloro-m-cresol	6.685	107	29360	5.154	ug/ml	93
39) 2-Methylnaphthalene	6.806	142	72441	5.193	ug/ml	95
40) 1-Methylnaphthalene	6.902	115	23994	5.307	ug/ml	96
41) Hexachlorocyclopentadiene	6.977	237	24054	4.995	ug/ml	96
42) 2,4,6-Trichlorophenol	7.092	196	28744	5.249	ug/ml	99
43) 2,4,5-Trichlorophenol	7.120	196	32308	5.336	ug/ml	98
45) 2-Chloronaphthalene	7.275	162	81279	5.421	ug/ml#	92
46) 2-Nitroaniline	7.381	138	21159	5.107	ug/ml	88
47) 1,4-Dinitrobenzene	7.512	168	9622	5.508	ug/ml	80
48) 1,3-Dinitrobenzene	7.586	168	10692	5.173	ug/ml#	1
49) Dimethyl phthalate	7.577	163	90429	5.276	ug/ml#	96
50) Acenaphthylene	7.673	152	124190	5.360	ug/ml	99
51) 2,6-Dinitrotoluene	7.623	165	17988	5.216	ug/ml#	78
52) 1,2-Dinitrobenzene	7.667	168	7170	5.351	ug/ml#	1
62) 3-Nitroaniline	7.779	138	19877	4.989	ug/ml	88
63) Acenaphthene	7.844	154	68765	4.963	ug/ml	93
64) 2,4-Dinitrophenol	7.881	184	9252	4.229	ug/ml#	83
65) Dibenzofuran	8.015	168	118997	5.007	ug/ml	89
66) 2,4-Dinitrotoluene	8.012	165	24467	4.770	ug/ml	93
67) 4-Nitrophenol	7.959	65	15584	4.742	ug/ml#	91
68) 2,3,5,6-Tetrachlorophenol	8.102	232	28331	4.907	ug/ml	99
69) 2,3,4,6-Tetrachlorophenol	8.143	232	27710	4.953	ug/ml	97
70) Diethyl phthalate	8.267	149	90281	4.972	ug/ml	99
71) Fluorene	8.345	166	90918	5.101	ug/ml	93
72) 4-Chlorophenyl phenyl ...	8.360	204	47788	4.982	ug/ml#	84

Data Path : I:\8270\Dakota\240228ical\
Data File : ABNL6.D
Acq On : 28 Feb 2024 10:22 pm
Operator : Dakota:ljg
Sample : IL5,32,,ABNL5 Lot# 10526
Misc : WG1890771,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 29 09:05:56 2024
Quant Method : I:\8270\Dakota\240228ical\FS240228LVIDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Feb 29 08:54:57 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\240228ical\ABNL6.D
Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
73)	4-Nitroaniline	8.366	138	19600	4.805	ug/ml	89
74)	4,6-Dinitro-o-cresol	8.404	198	13558	4.537	ug/ml#	64
75)	NDPA/DPA	8.475	169	76318	4.964	ug/ml	94
76)	Azobenzene	8.509	77	79985	5.025	ug/ml	99
78)	4-Bromophenyl phenyl e...	8.833	248	30629	4.981	ug/ml#	80
79)	Hexachlorobenzene	8.885	284	36191	4.824	ug/ml#	79
80)	Pentachlorophenol	9.078	266	23555	4.746	ug/ml	98
86)	Phenanthrene	9.271	178	149622	5.200	ug/ml	99
87)	Anthracene	9.320	178	148831	5.155	ug/ml	100
88)	Carbazole	9.485	167	142504	5.198	ug/ml	100
89)	Di-n-butylphthalate	9.864	149	156182	4.979	ug/ml#	98
90)	Fluoranthene	10.427	202	183263	5.207	ug/ml#	92
91)	Benzidine	10.576	184	114296	5.140	ug/ml#	94
92)	Pyrene	10.648	202	197222	5.166	ug/ml	100
94)	Butyl benzyl phthalate	11.356	149	69410	4.946	ug/ml	85
102)	Benzo(a)anthracene	11.891	228	204721	4.989	ug/ml	98
103)	3,3'-Dichlorobenzidine	11.885	252	78746	4.864	ug/ml#	94
104)	Chrysene	11.928	228	197829	5.112	ug/ml	99
105)	Bis(2-ethylhexyl)phtha...	11.993	149	106927	4.715	ug/ml#	91
106)	Di-n-octylphthalate	12.674	149	177632	4.575	ug/ml#	78
107)	Benzo(b)fluoranthene	13.004	252	214414	4.899	ug/ml#	93
108)	Benzo(k)fluoranthene	13.028	252	211995	5.040	ug/ml#	92
109)	Benzo(a)pyrene	13.321	252	199508	4.925	ug/ml#	92
111)	Indeno(1,2,3-cd)pyrene	14.334	276	222008M6	4.803	ug/mL	
112)	Dibenzo(a,h)anthracene	14.353	278	214313	5.025	ug/ml#	87
113)	Benzo(ghi)perylene	14.551	276	212536	5.159	ug/ml#	85

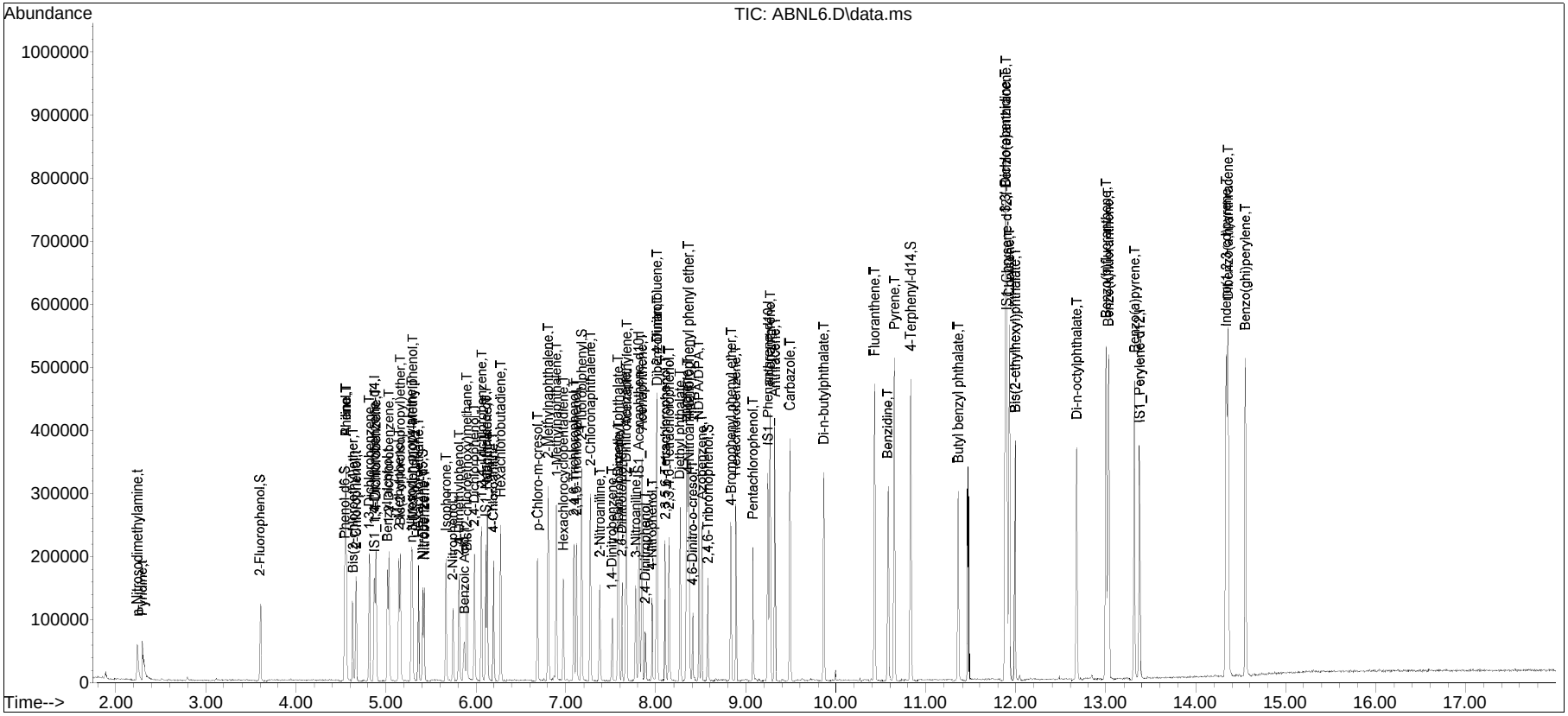
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240228ical\
Data File : ABNL6.D
Acq On : 28 Feb 2024 10:22 pm
Operator : Dakota:ljg
Sample : IL5,32,,ABNL5 Lot# 10526
Misc : WG1890771,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 29 09:05:56 2024
Quant Method : I:\8270\Dakota\240228ical\FS240228LVIDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Feb 29 08:54:57 2024
Response via : Initial Calibration

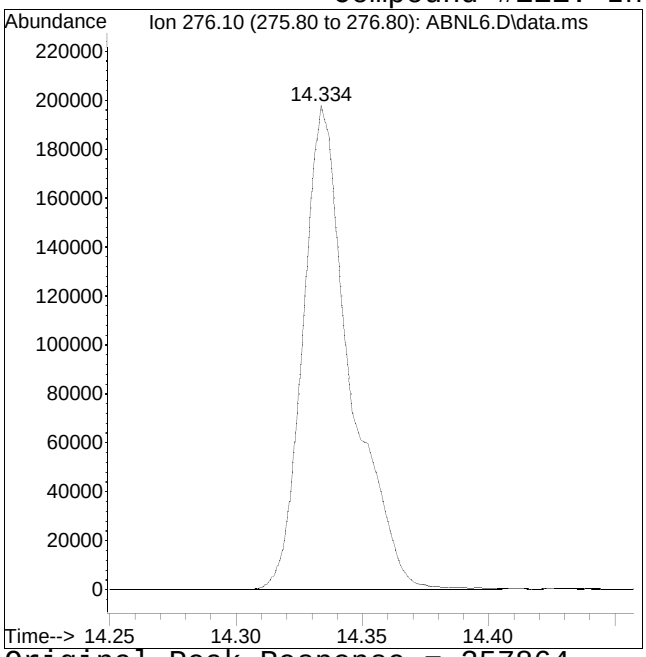
Sub List : ABNical - ABN ical sublistcal\ABNL6.D•



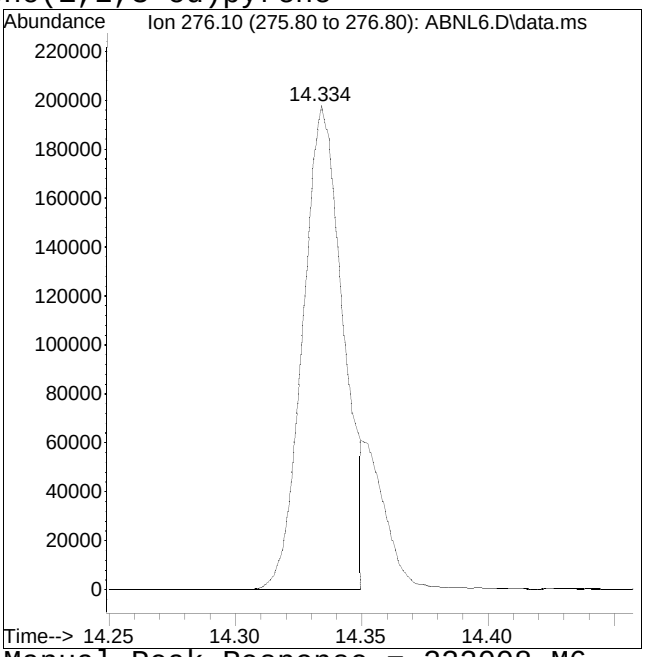
Manual Integration Report

Data Path : I:\8270\Dakota\240228ical\QMethod : FS240228LVIDakota.m
Data File : ABNL6.D Operator : Dakota:ljg
Date Inj'd : 2/28/2024 10:22 pm Instrument : Dakota
Sample : IL5,32,,ABNL5 Lot# 10526 Quant Date : 2/29/2024 8:56 am

Compound #111: Indeno(1,2,3-cd)pyrene



Original Peak Response = 257864



Manual Peak Response = 222008 M6

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240228ical\
Data File : ABNL5.D
Acq On : 28 Feb 2024 10:45 pm
Operator : Dakota:ljg
Sample : IL6,32,,ABNL3 Lot# 10527
Misc : WG1890771,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 29 09:05:12 2024
Quant Method : I:\8270\Dakota\240228ical\FS240228LVIDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Feb 29 08:54:57 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\240228ical\ABNL6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	4.870	152	22741	4.000	ug/ml	0.00
Standard Area 1 = 24358			Recovery = 93.36%			
33) IS1_Naphthalene-d8	6.107	136	79757	4.000	ug/ml #	0.00
Standard Area 1 = 83339			Recovery = 95.70%			
61) IS1_Acenaphthene-d10	7.813	164	52495	4.000	ug/ml	0.00
Standard Area 1 = 55337			Recovery = 94.86%			
85) IS1_Phenanthrene-d10	9.249	188	114133	4.000	ug/ml	0.00
Standard Area 1 = 117827			Recovery = 96.86%			
101) IS1_Chrysene-d12	11.900	240	121599	4.000	ug/ml	0.00
Standard Area 1 = 124719			Recovery = 97.50%			
110) IS1_Perylene-d12	13.377	264	143268	4.000	ug/ml	0.00
Standard Area 1 = 144564			Recovery = 99.10%			
System Monitoring Compounds						
4) 2-Fluorophenol	3.602	112	18168	3.140	ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 62.80%			
7) Phenol-d6	4.540	99	22970	3.044	ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 60.88%			
19) Nitrobenzene-d5	5.411	82	21707	3.220	ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 128.80%			
44) 2-Fluorobiphenyl	7.176	172	56581	3.299	ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 131.96%#			
77) 2,4,6-Tribromophenol	8.578	330	9629	2.829	ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 56.58%			
93) 4-Terphenyl-d14	10.831	244	87386	3.072	ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 122.88%			

Target Compounds					Qvalue
2) n-Nitrosodimethylamine	2.237	74	12717	3.123 ug/ml#	86
3) Pyridine	2.296	79	20020M1	3.058 ug/ml	
5) Aniline	4.553	93	27319	3.164 ug/ml#	40
6) 2-Chlorophenol	4.668	128	19888	3.093 ug/ml	94
8) Phenol	4.553	94	26532	3.159 ug/ml#	50
9) Bis(2-chloroethyl)ether	4.630	93	18818	3.212 ug/ml	98
10) 1,3-Dichlorobenzene	4.814	146	25538	3.195 ug/ml	95
11) 1,4-Dichlorobenzene	4.888	146	25818	3.184 ug/ml	96
12) 1,2-Dichlorobenzene	5.034	146	25762M3	3.281 ug/ml	
13) Benzyl alcohol	5.019	79	16921	3.193 ug/ml	97
14) Bis(2-chloroisopropyl)...	5.159	45	37994	3.228 ug/ml#	85

Data Path : I:\8270\Dakota\240228ical\
Data File : ABNL5.D
Acq On : 28 Feb 2024 10:45 pm
Operator : Dakota:ljg
Sample : IL6,32,,ABNL3 Lot# 10527
Misc : WG1890771,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 29 09:05:12 2024
Quant Method : I:\8270\Dakota\240228ical\FS240228LVIDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Feb 29 08:54:57 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\240228ical\ABNL6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
15) 2-Methylphenol	5.143	108	17588	3.176	ug/ml	97
16) Hexachloroethane	5.364	117	9247	3.178	ug/ml#	44
17) n-Nitrosodi-n-propylamine	5.286	70	14890	3.147	ug/ml#	89
18) 3-Methylphenol/4-Methy...	5.296	108	18864	3.115	ug/ml#	97
20) Nitrobenzene	5.429	77	20861	3.195	ug/ml	98
21) Isophorone	5.668	82	37173	3.123	ug/ml	94
22) 2-Nitrophenol	5.743	139	9326	2.884	ug/ml#	96
23) 2,4-Dimethylphenol	5.811	107	15010	3.070	ug/ml	100
24) Bis(2-chloroethoxy)met...	5.899	93	23588	3.118	ug/ml#	96
25) 2,4-Dichlorophenol	5.979	162	19980	3.078	ug/ml#	91
26) 1,2,4-Trichlorobenzene	6.060	180	25745	3.168	ug/ml#	95
34) Naphthalene	6.125	128	63008	3.299	ug/ml	99
35) Benzoic Acid	5.864	105	8826	2.290	ug/ml	94
36) 4-Chloroaniline	6.194	65	7688	3.178	ug/ml	90
37) Hexachlorobutadiene	6.275	225	15375	3.234	ug/ml	97
38) p-Chloro-m-cresol	6.685	107	16791	3.080	ug/ml	95
39) 2-Methylnaphthalene	6.806	142	42892	3.213	ug/ml	97
40) 1-Methylnaphthalene	6.899	115	13321	3.078	ug/ml	87
41) Hexachlorocyclopentadiene	6.977	237	14060	3.051	ug/ml	98
42) 2,4,6-Trichlorophenol	7.089	196	17262	3.294	ug/ml	94
43) 2,4,5-Trichlorophenol	7.120	196	17651	3.046	ug/ml	98
45) 2-Chloronaphthalene	7.275	162	46101	3.213	ug/ml	92
46) 2-Nitroaniline	7.381	138	11705	2.952	ug/ml	87
47) 1,4-Dinitrobenzene	7.512	168	5094	3.047	ug/ml	87
48) 1,3-Dinitrobenzene	7.586	168	6235	3.152	ug/ml#	1
49) Dimethyl phthalate	7.577	163	50905	3.103	ug/ml#	97
50) Acenaphthylene	7.673	152	72561	3.272	ug/ml	98
51) 2,6-Dinitrotoluene	7.623	165	10009	3.033	ug/ml#	85
52) 1,2-Dinitrobenzene	7.664	168	4119	3.212	ug/ml#	1
62) 3-Nitroaniline	7.779	138	10860	2.873	ug/ml	91
63) Acenaphthene	7.844	154	38675	2.942	ug/ml	85
64) 2,4-Dinitrophenol	7.881	184	4689	2.260	ug/ml#	84
65) Dibenzofuran	8.015	168	68787	3.051	ug/ml	88
66) 2,4-Dinitrotoluene	8.009	165	13113	2.695	ug/ml	90
67) 4-Nitrophenol	7.959	65	8750	2.807	ug/ml	91
68) 2,3,5,6-Tetrachlorophenol	8.099	232	16633	3.037	ug/ml	95
69) 2,3,4,6-Tetrachlorophenol	8.143	232	16131	3.039	ug/ml	98
70) Diethyl phthalate	8.267	149	52262	3.034	ug/ml	99
71) Fluorene	8.345	166	52219	3.088	ug/ml	92
72) 4-Chlorophenyl phenyl ...	8.360	204	28054	3.083	ug/ml#	84

Data Path : I:\8270\Dakota\240228ical\
Data File : ABNL5.D
Acq On : 28 Feb 2024 10:45 pm
Operator : Dakota:ljg
Sample : IL6,32,,ABNL3 Lot# 10527
Misc : WG1890771,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 29 09:05:12 2024
Quant Method : I:\8270\Dakota\240228ical\FS240228LVIDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Feb 29 08:54:57 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\240228ical\ABNL6.D
Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
73)	4-Nitroaniline	8.366	138	10871	2.809	ug/ml	94
74)	4,6-Dinitro-o-cresol	8.404	198	7125	2.513	ug/ml#	63
75)	NDPA/DPA	8.475	169	44261	3.035	ug/ml	95
76)	Azobenzene	8.512	77	45831	3.035	ug/ml	99
78)	4-Bromophenyl phenyl e...	8.833	248	17804	3.052	ug/ml#	81
79)	Hexachlorobenzene	8.885	284	21003	2.951	ug/ml#	80
80)	Pentachlorophenol	9.078	266	12583	2.673	ug/ml	97
86)	Phenanthrene	9.271	178	87699	3.146	ug/ml	100
87)	Anthracene	9.321	178	86393	3.089	ug/ml	98
88)	Carbazole	9.485	167	82435	3.104	ug/ml	99
89)	Di-n-butylphthalate	9.864	149	87827	2.891	ug/ml	98
90)	Fluoranthene	10.427	202	106845	3.134	ug/ml#	90
91)	Benzidine	10.576	184	64474	2.993	ug/ml#	94
92)	Pyrene	10.648	202	116270	3.144	ug/ml	100
94)	Butyl benzyl phthalate	11.356	149	36868	2.712	ug/ml	89
102)	Benzo(a)anthracene	11.891	228	119726	2.992	ug/ml	99
103)	3,3'-Dichlorobenzidine	11.885	252	44854	2.841	ug/ml#	95
104)	Chrysene	11.928	228	117531	3.115	ug/ml	99
105)	Bis(2-ethylhexyl)phtha...	11.993	149	58779	2.659	ug/ml#	93
106)	Di-n-octylphthalate	12.674	149	96002	2.536	ug/ml#	77
107)	Benzo(b)fluoranthene	13.004	252	126067	2.954	ug/ml#	93
108)	Benzo(k)fluoranthene	13.032	252	127754	3.115	ug/ml#	93
109)	Benzo(a)pyrene	13.321	252	115859	2.934	ug/ml#	92
111)	Indeno(1,2,3-cd)pyrene	14.334	276	132203M6	2.886	ug/mL	
112)	Dibenzo(a,h)anthracene	14.353	278	126485	2.993	ug/ml#	88
113)	Benzo(ghi)perylene	14.551	276	124617	3.052	ug/ml#	84

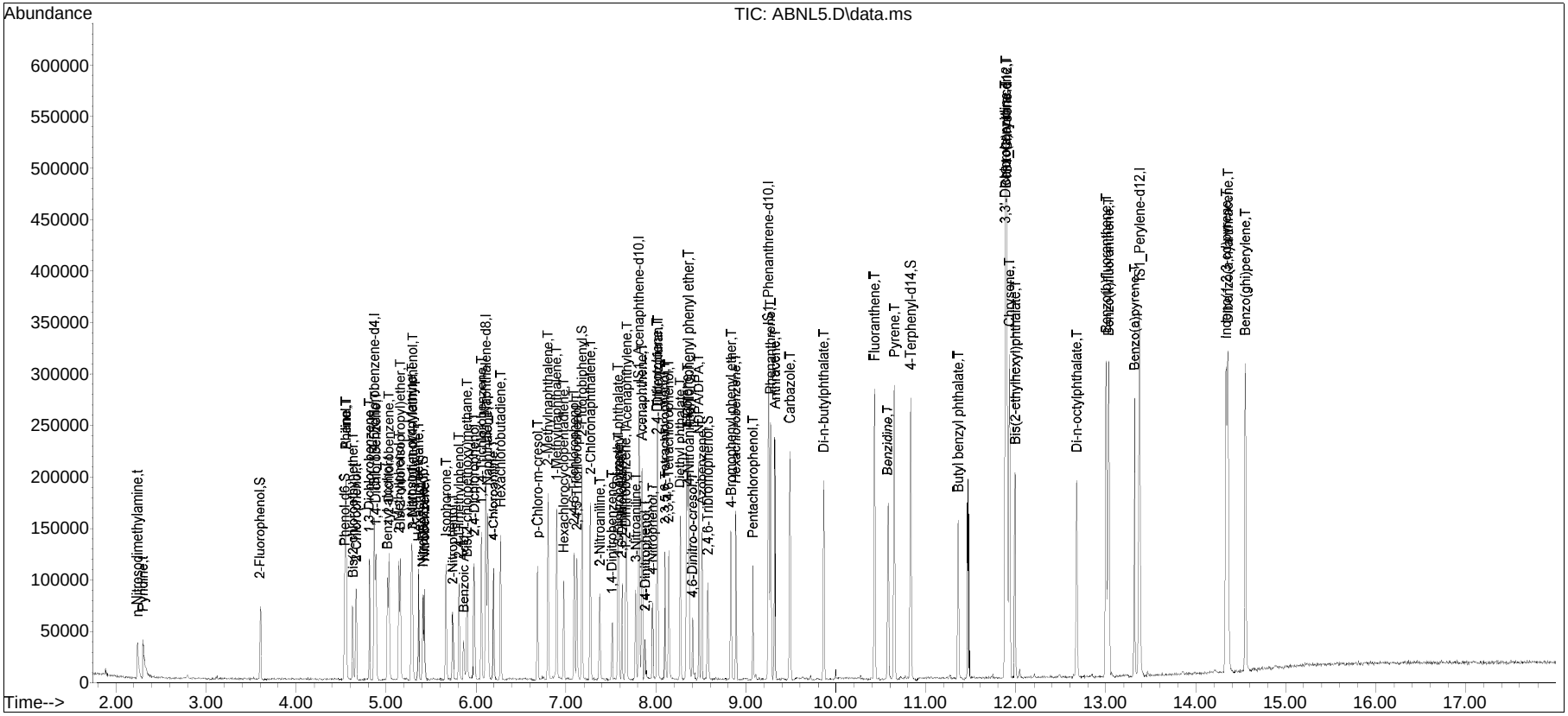
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240228ical\
Data File : ABNL5.D
Acq On : 28 Feb 2024 10:45 pm
Operator : Dakota:ljg
Sample : IL6,32,,ABNL3 Lot# 10527
Misc : WG1890771,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 29 09:05:12 2024
Quant Method : I:\8270\Dakota\240228ical\FS240228LVIDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Feb 29 08:54:57 2024
Response via : Initial Calibration

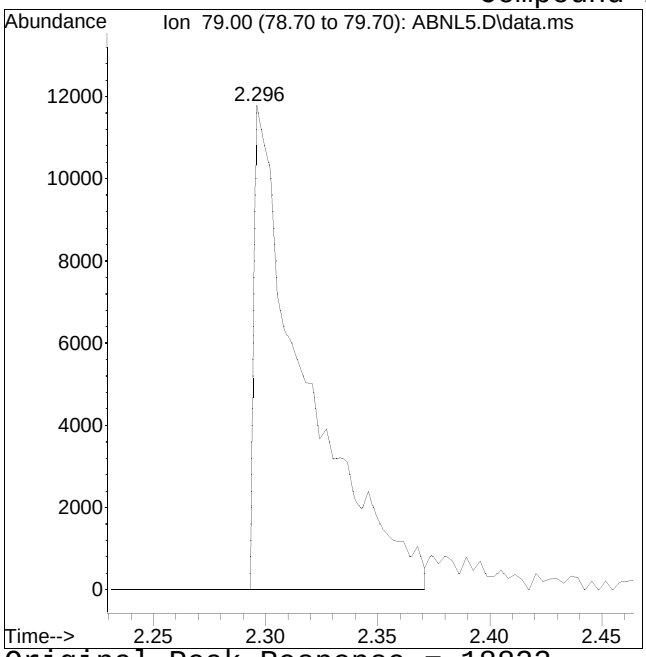
Sub List : ABNical - ABN ical sublistcal\ABNL6.D•



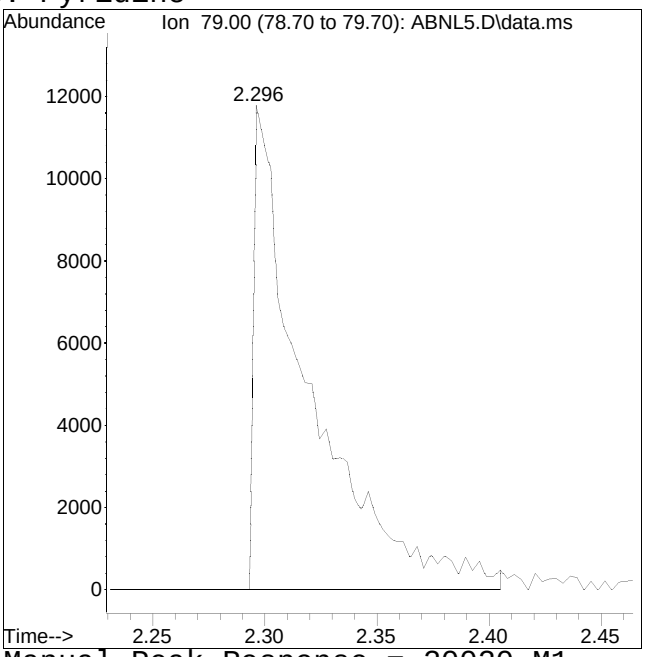
Manual Integration Report

Data Path : I:\8270\Dakota\240228ical\QMethod : FS240228LVIDakota.m
Data File : ABNL5.D Operator : Dakota:ljg
Date Inj'd : 2/28/2024 10:45 pm Instrument : Dakota
Sample : IL6,32,,ABNL3 Lot# 10527 Quant Date : 2/29/2024 8:56 am

Compound #3: Pyridine



Original Peak Response = 18822



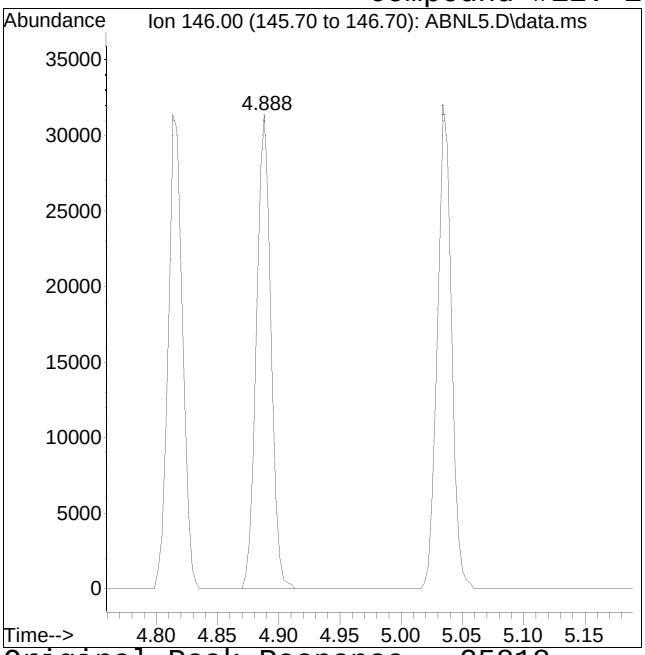
Manual Peak Response = 20020 M1

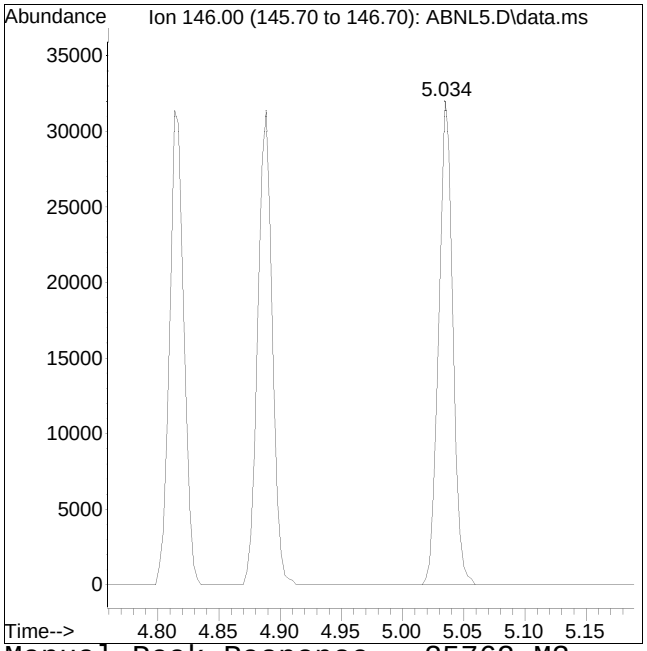
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

Data Path : I:\8270\Dakota\240228ical\QMethod : FS240228LVIDakota.m
Data File : ABNL5.D Operator : Dakota:ljg
Date Inj'd : 2/28/2024 10:45 pm Instrument : Dakota
Sample : IL6,32,,ABNL3 Lot# 10527 Quant Date : 2/29/2024 8:56 am

Compound #12: 1,2-Dichlorobenzene





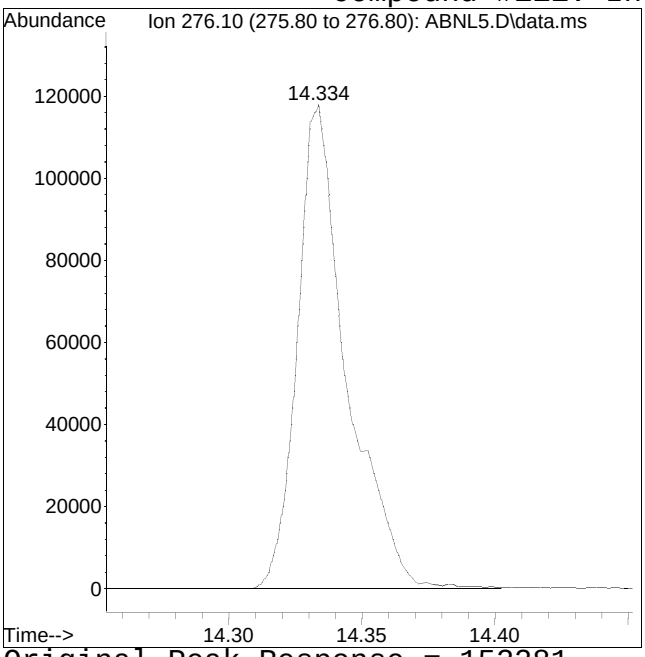
Original Peak Response = 25818 Manual Peak Response = 25762 M3

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

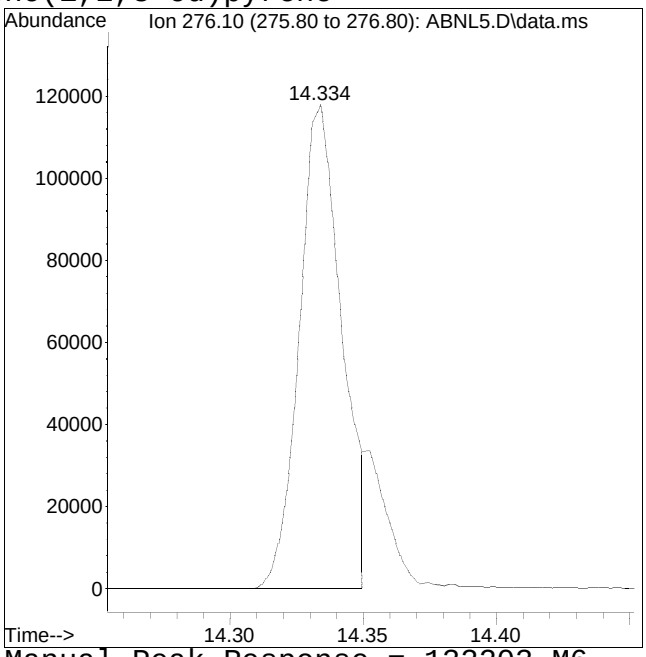
Manual Integration Report

Data Path : I:\8270\Dakota\240228ical\QMethod : FS240228LVIDakota.m
Data File : ABNL5.D Operator : Dakota:ljg
Date Inj'd : 2/28/2024 10:45 pm Instrument : Dakota
Sample : IL6,32,,ABNL3 Lot# 10527 Quant Date : 2/29/2024 8:56 am

Compound #111: Indeno(1,2,3-cd)pyrene



Original Peak Response = 152281



Manual Peak Response = 132203 M6

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240228ical\
Data File : ABNL4.D
Acq On : 28 Feb 2024 11:07 pm
Operator : Dakota:ljg
Sample : IL7,32,,ABNL2 Lot# 10528
Misc : WG1890771,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Feb 29 09:04:17 2024
Quant Method : I:\8270\Dakota\240228ical\FS240228LVIDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Feb 29 08:54:57 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\240228ical\ABNL6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	4.870	152	28611	4.000	ug/ml	0.00
Standard Area 1 = 24358			Recovery = 117.46%			
33) IS1_Naphthalene-d8	6.107	136	100408	4.000	ug/ml #	0.00
Standard Area 1 = 83339			Recovery = 120.48%			
61) IS1_Acenaphthene-d10	7.813	164	63552	4.000	ug/ml	0.00
Standard Area 1 = 55337			Recovery = 114.85%			
85) IS1_Phenanthrene-d10	9.249	188	137036	4.000	ug/ml	0.00
Standard Area 1 = 117827			Recovery = 116.30%			
101) IS1_Chrysene-d12	11.900	240	145402	4.000	ug/ml	0.00
Standard Area 1 = 124719			Recovery = 116.58%			
110) IS1_Perylene-d12	13.377	264	175288	4.000	ug/ml	0.00
Standard Area 1 = 144564			Recovery = 121.25%			
System Monitoring Compounds						
4) 2-Fluorophenol	3.602	112	14611	2.007	ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 40.14%			
7) Phenol-d6	4.540	99	18962	1.998	ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 39.96%			
19) Nitrobenzene-d5	5.411	82	16867	1.989	ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 79.56%			
44) 2-Fluorobiphenyl	7.176	172	44937	2.081	ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 83.24%			
77) 2,4,6-Tribromophenol	8.578	330	7994	1.940	ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 38.80%			
93) 4-Terphenyl-d14	10.831	244	69451	2.033	ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 81.32%			
Target Compounds						Qvalue
2) n-Nitrosodimethylamine	2.240	74	10270	2.005	ug/ml#	88
3) Pyridine	2.303	79	15938M1	1.935	ug/ml	
5) Aniline	4.553	93	22215	2.045	ug/ml#	47
6) 2-Chlorophenol	4.665	128	16133	1.994	ug/ml	94
8) Phenol	4.553	94	20332	1.924	ug/ml#	50
9) Bis(2-chloroethyl)ether	4.631	93	14570	1.977	ug/ml	99
10) 1,3-Dichlorobenzene	4.814	146	20300	2.019	ug/ml	93
11) 1,4-Dichlorobenzene	4.889	146	20388	1.999	ug/ml	96
12) 1,2-Dichlorobenzene	5.035	146	20340	2.059	ug/ml	95
13) Benzyl alcohol	5.019	79	13128	1.969	ug/ml	97
14) Bis(2-chloroisopropyl)...	5.159	45	30137	2.035	ug/ml#	95

Data Path : I:\8270\Dakota\240228ical\
Data File : ABNL4.D
Acq On : 28 Feb 2024 11:07 pm
Operator : Dakota:ljg
Sample : IL7,32,,ABNL2 Lot# 10528
Misc : WG1890771,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Feb 29 09:04:17 2024
Quant Method : I:\8270\Dakota\240228ical\FS240228LVIDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Feb 29 08:54:57 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\240228ical\ABNL6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
15) 2-Methylphenol	5.143	108	14641	2.102	ug/ml	96
16) Hexachloroethane	5.364	117	7636	2.086	ug/ml#	44
17) n-Nitrosodi-n-propylamine	5.283	70	11984	2.013	ug/ml#	87
18) 3-Methylphenol/4-Methy...	5.296	108	15163	1.990	ug/ml	95
20) Nitrobenzene	5.429	77	16747	2.039	ug/ml	96
21) Isophorone	5.669	82	29241	1.953	ug/ml	97
22) 2-Nitrophenol	5.743	139	7379	1.814	ug/ml	93
23) 2,4-Dimethylphenol	5.809	107	11924	1.939	ug/ml	97
24) Bis(2-chloroethoxy)met...	5.899	93	19471	2.046	ug/ml#	94
25) 2,4-Dichlorophenol	5.979	162	16510	2.022	ug/ml#	93
26) 1,2,4-Trichlorobenzene	6.060	180	20541	2.009	ug/ml	95
34) Naphthalene	6.126	128	48753	2.028	ug/ml	99
35) Benzoic Acid	5.864	105	5162	1.064	ug/ml	94
36) 4-Chloroaniline	6.194	65	6209	2.039	ug/ml	92
37) Hexachlorobutadiene	6.275	225	12880	2.152	ug/ml	99
38) p-Chloro-m-cresol	6.685	107	13415	1.954	ug/ml	98
39) 2-Methylnaphthalene	6.806	142	33940	2.019	ug/ml	95
40) 1-Methylnaphthalene	6.903	115	11271	2.069	ug/ml	96
41) Hexachlorocyclopentadiene	6.977	237	11412	1.967	ug/ml	94
42) 2,4,6-Trichlorophenol	7.089	196	13064	1.980	ug/ml	97
43) 2,4,5-Trichlorophenol	7.120	196	13830	1.896	ug/ml	96
45) 2-Chloronaphthalene	7.276	162	37613	2.082	ug/ml	93
46) 2-Nitroaniline	7.381	138	8898	1.783	ug/ml	92
47) 1,4-Dinitrobenzene	7.512	168	4130	1.962	ug/ml	80
48) 1,3-Dinitrobenzene	7.586	168	4660	1.871	ug/ml#	1
49) Dimethyl phthalate	7.577	163	42791	2.072	ug/ml#	98
50) Acenaphthylene	7.673	152	56366	2.019	ug/ml	99
51) 2,6-Dinitrotoluene	7.624	165	8111	1.952	ug/ml#	76
52) 1,2-Dinitrobenzene	7.664	168	3171	1.964	ug/ml#	1
62) 3-Nitroaniline	7.779	138	7956	1.739	ug/ml	95
63) Acenaphthene	7.844	154	32782	2.060	ug/ml	94
64) 2,4-Dinitrophenol	7.879	184	3821	1.521	ug/ml#	79
65) Dibenzofuran	8.015	168	55555	2.036	ug/ml	89
66) 2,4-Dinitrotoluene	8.012	165	10060	1.708	ug/ml	96
67) 4-Nitrophenol	7.956	65	7253	1.922	ug/ml	91
68) 2,3,5,6-Tetrachlorophenol	8.102	232	13423	2.024	ug/ml	94
69) 2,3,4,6-Tetrachlorophenol	8.143	232	12330	1.919	ug/ml	91
70) Diethyl phthalate	8.267	149	41491	1.990	ug/ml	98
71) Fluorene	8.345	166	43079	2.104	ug/ml	94
72) 4-Chlorophenyl phenyl ...	8.360	204	22338	2.028	ug/ml#	84

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240228ical\
Data File : ABNL4.D
Acq On : 28 Feb 2024 11:07 pm
Operator : Dakota:ljg
Sample : IL7,32,,ABNL2 Lot# 10528
Misc : WG1890771,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Feb 29 09:04:17 2024
Quant Method : I:\8270\Dakota\240228ical\FS240228LVIDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Feb 29 08:54:57 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\240228ical\ABNL6.D
Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
73)	4-Nitroaniline	8.367	138	8831	1.885	ug/ml	94
74)	4,6-Dinitro-o-cresol	8.404	198	5434	1.583	ug/ml#	67
75)	NDPA/DPA	8.475	169	35207	1.994	ug/ml	94
76)	Azobenzene	8.509	77	37036	2.026	ug/ml	98
78)	4-Bromophenyl phenyl e...	8.833	248	14180	2.008	ug/ml#	80
79)	Hexachlorobenzene	8.886	284	17527	2.034	ug/ml#	80
80)	Pentachlorophenol	9.078	266	10119	1.775	ug/ml	99
86)	Phenanthrene	9.271	178	70922	2.119	ug/ml	99
87)	Anthracene	9.321	178	70427	2.097	ug/ml	99
88)	Carbazole	9.485	167	63912	2.004	ug/ml	100
89)	Di-n-butylphthalate	9.865	149	69352	1.901	ug/ml#	98
90)	Fluoranthene	10.427	202	85078	2.078	ug/ml#	91
91)	Benzidine	10.576	184	50901	1.968	ug/ml#	95
92)	Pyrene	10.645	202	92505	2.083	ug/ml	99
94)	Butyl benzyl phthalate	11.357	149	29493	1.807	ug/ml	86
102)	Benzo(a)anthracene	11.891	228	95897	2.004	ug/ml	99
103)	3,3'-Dichlorobenzidine	11.888	252	33910	1.796	ug/ml#	95
104)	Chrysene	11.928	228	94647	2.098	ug/ml	99
105)	Bis(2-ethylhexyl)phtha...	11.994	149	44658	1.689	ug/ml#	92
106)	Di-n-octylphthalate	12.674	149	72155	1.594	ug/ml#	79
107)	Benzo(b)fluoranthene	13.004	252	96286	1.887	ug/ml#	92
108)	Benzo(k)fluoranthene	13.032	252	98741	2.013	ug/ml#	92
109)	Benzo(a)pyrene	13.318	252	90168	1.909	ug/ml#	92
111)	Indeno(1,2,3-cd)pyrene	14.334	276	97670M6	1.743	ug/mL	
112)	Dibenzo(a,h)anthracene	14.353	278	95801	1.853	ug/ml#	86
113)	Benzo(ghi)perylene	14.552	276	98102	1.964	ug/ml#	84

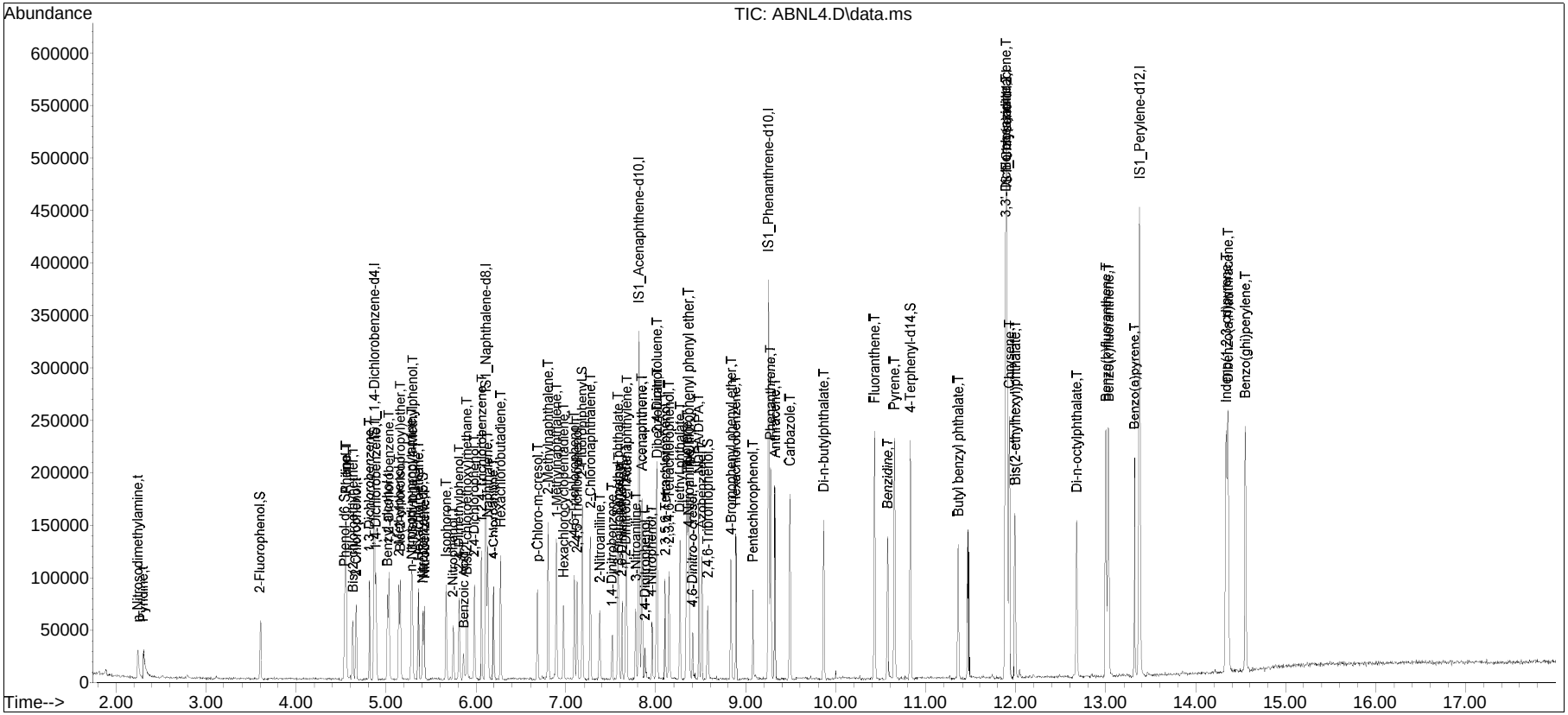
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240228ical\
Data File : ABNL4.D
Acq On : 28 Feb 2024 11:07 pm
Operator : Dakota:ljg
Sample : IL7,32,,ABNL2 Lot# 10528
Misc : WG1890771,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Feb 29 09:04:17 2024
Quant Method : I:\8270\Dakota\240228ical\FS240228LVIDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Feb 29 08:54:57 2024
Response via : Initial Calibration

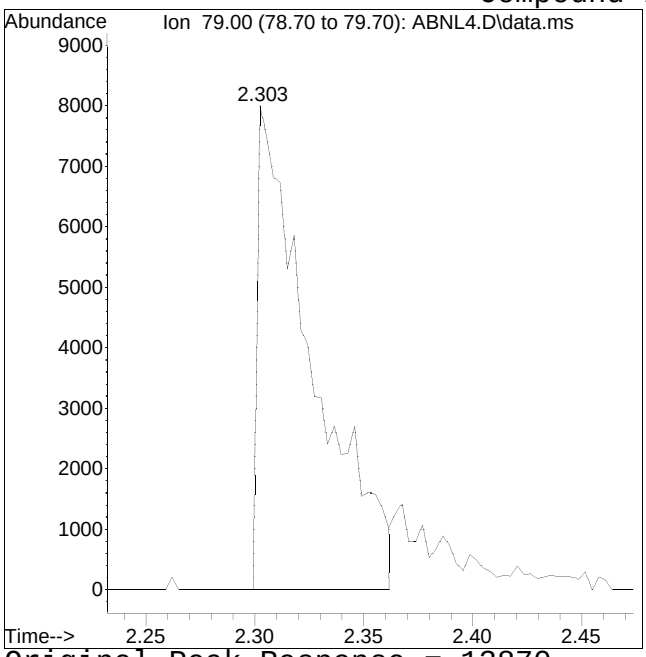
Sub List : ABNical - ABN ical sublistcal\ABNL6.D•

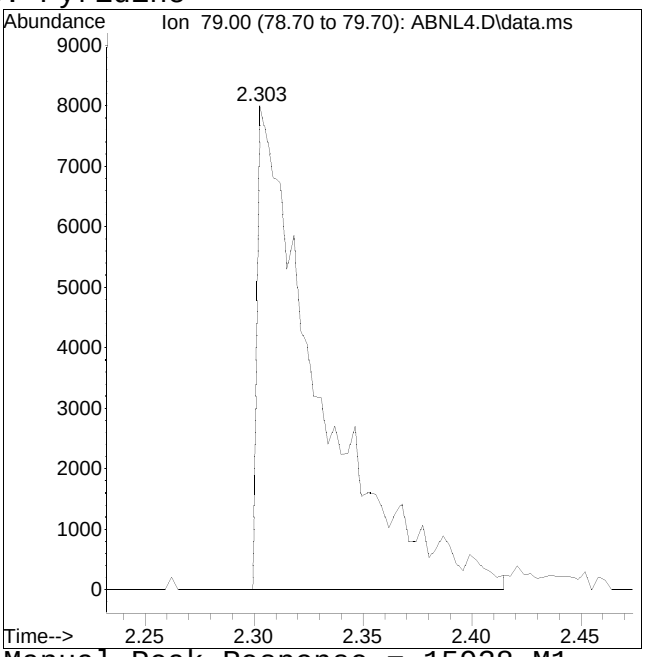


Manual Integration Report

Data Path : I:\8270\Dakota\240228ical\QMethod : FS240228LVIDakota.m
Data File : ABNL4.D Operator : Dakota:ljg
Date Inj'd : 2/28/2024 11:07 pm Instrument : Dakota
Sample : IL7,32,,ABNL2 Lot# 10528 Quant Date : 2/29/2024 8:56 am

Compound #3: Pyridine



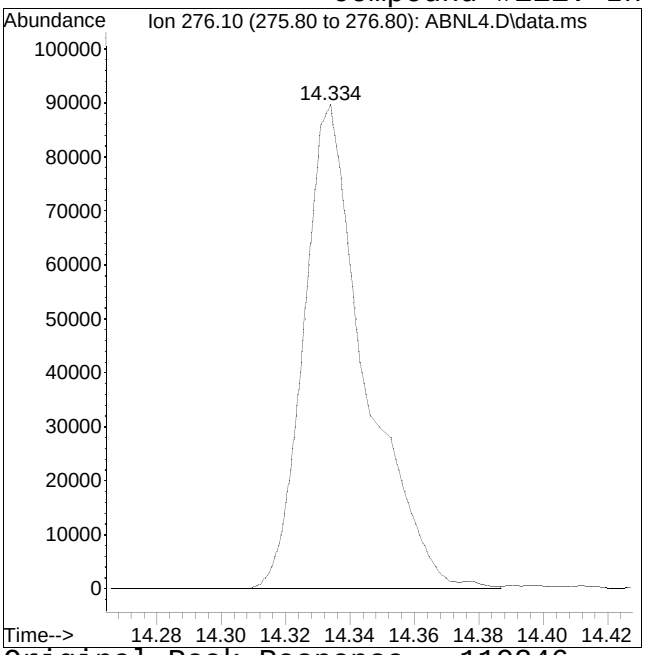


Original Peak Response = 13870 Manual Peak Response = 15938 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

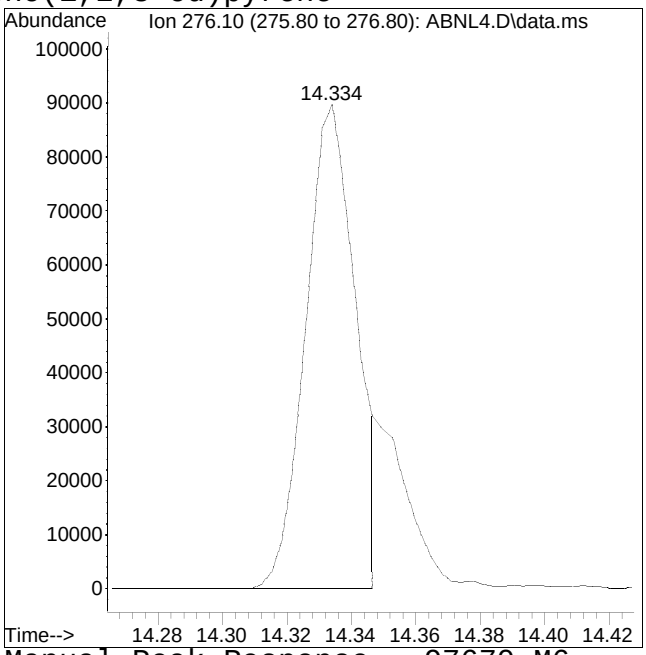
Manual Integration Report

Data Path : I:\8270\Dakota\240228ical\QMethod : FS240228LVIDakota.m
Data File : ABNL4.D Operator : Dakota:ljg
Date Inj'd : 2/28/2024 11:07 pm Instrument : Dakota
Sample : IL7,32,,ABNL2 Lot# 10528 Quant Date : 2/29/2024 8:56 am

Compound #111: Indeno(1,2,3-cd)pyrene



Original Peak Response = 119246



Manual Peak Response = 97670 M6

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240228ical\
Data File : ABNL3.D
Acq On : 28 Feb 2024 11:30 pm
Operator : Dakota:ljg
Sample : IL8,32,,ABNL1 Lot# 10529
Misc : WG1890771,,
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Feb 29 09:03:19 2024
Quant Method : I:\8270\Dakota\240228ical\FS240228LVIDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Feb 29 08:54:57 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\240228ical\ABNL6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	4.870	152	23671	4.000	ug/ml	0.00
Standard Area 1 = 24358			Recovery = 97.18%			
33) IS1_Naphthalene-d8	6.107	136	84042	4.000	ug/ml #	0.00
Standard Area 1 = 83339			Recovery = 100.84%			
61) IS1_Acenaphthene-d10	7.813	164	53752	4.000	ug/ml	0.00
Standard Area 1 = 55337			Recovery = 97.14%			
85) IS1_Phenanthrene-d10	9.249	188	117361	4.000	ug/ml	0.00
Standard Area 1 = 117827			Recovery = 99.60%			
101) IS1_Chrysene-d12	11.900	240	121844	4.000	ug/ml	0.00
Standard Area 1 = 124719			Recovery = 97.69%			
110) IS1_Perylene-d12	13.377	264	145177	4.000	ug/ml	0.00
Standard Area 1 = 144564			Recovery = 100.42%			
System Monitoring Compounds						
4) 2-Fluorophenol	3.605	112	6019	0.999	ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 19.98%			
7) Phenol-d6	4.540	99	7543	0.960	ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 19.20%			
19) Nitrobenzene-d5	5.411	82	7144	1.018	ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 40.72%			
44) 2-Fluorobiphenyl	7.176	172	18258	1.010	ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 40.40%			
77) 2,4,6-Tribromophenol	8.578	330	3195	0.917	ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 18.34%			
93) 4-Terphenyl-d14	10.831	244	29682	1.015	ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 40.60%			
Target Compounds						Qvalue
2) n-Nitrosodimethylamine	2.250	74	3957	0.934	ug/ml#	96
3) Pyridine	2.327	79	5700M1	0.836	ug/ml	
5) Aniline	4.553	93	9392	1.045	ug/ml#	39
6) 2-Chlorophenol	4.665	128	6128	0.916	ug/ml	96
8) Phenol	4.553	94	8989	1.028	ug/ml#	48
9) Bis(2-chloroethyl)ether	4.630	93	6240	1.023	ug/ml	99
10) 1,3-Dichlorobenzene	4.817	146	8835	1.062	ug/ml	92
11) 1,4-Dichlorobenzene	4.888	146	8526	1.010	ug/ml	93
12) 1,2-Dichlorobenzene	5.034	146	8268	1.012	ug/ml	91
13) Benzyl alcohol	5.019	79	5494	0.996	ug/ml	95
14) Bis(2-chloroisopropyl)...	5.159	45	12584	1.027	ug/ml#	95

Data Path : I:\8270\Dakota\240228ical\
Data File : ABNL3.D
Acq On : 28 Feb 2024 11:30 pm
Operator : Dakota:ljg
Sample : IL8,32,,ABNL1 Lot# 10529
Misc : WG1890771,,
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Feb 29 09:03:19 2024
Quant Method : I:\8270\Dakota\240228ical\FS240228LVIDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Feb 29 08:54:57 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\240228ical\ABNL6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
15) 2-Methylphenol	5.140	108	5734	0.995	ug/ml	95
16) Hexachloroethane	5.364	117	3226	1.065	ug/ml#	52
17) n-Nitrosodi-n-propylamine	5.286	70	4742	0.963	ug/ml#	80
18) 3-Methylphenol/4-Methy...	5.296	108	6089	0.966	ug/ml#	97
20) Nitrobenzene	5.429	77	7426	1.093	ug/ml	90
21) Isophorone	5.668	82	12589	1.016	ug/ml#	92
22) 2-Nitrophenol	5.743	139	3072	0.913	ug/ml	96
23) 2,4-Dimethylphenol	5.808	107	4910	0.965	ug/ml	97
24) Bis(2-chloroethoxy)met...	5.899	93	8374	1.064	ug/ml#	93
25) 2,4-Dichlorophenol	5.979	162	6082	0.900	ug/ml	90
26) 1,2,4-Trichlorobenzene	6.060	180	8423	0.996	ug/ml#	97
34) Naphthalene	6.125	128	20393	1.013	ug/ml#	95
35) Benzoic Acid	5.861	105	798	0.197	ug/ml#	50
36) 4-Chloroaniline	6.194	65	2681	1.052	ug/ml	94
37) Hexachlorobutadiene	6.275	225	5242	1.046	ug/ml	98
38) p-Chloro-m-cresol	6.685	107	5572	0.970	ug/ml	97
39) 2-Methylnaphthalene	6.806	142	13779	0.979	ug/ml	95
40) 1-Methylnaphthalene	6.899	115	4448	0.976	ug/ml	85
41) Hexachlorocyclopentadiene	6.977	237	4453	0.917	ug/ml#	91
42) 2,4,6-Trichlorophenol	7.092	196	5642	1.022	ug/ml	94
43) 2,4,5-Trichlorophenol	7.120	196	5711	0.935	ug/ml	98
45) 2-Chloronaphthalene	7.275	162	15537	1.028	ug/ml#	88
46) 2-Nitroaniline	7.381	138	3886	0.930	ug/ml	87
47) 1,4-Dinitrobenzene	7.508	168	1532	0.870	ug/ml	86
48) 1,3-Dinitrobenzene	7.583	168	1807	0.867	ug/ml#	1
49) Dimethyl phthalate	7.577	163	16768	0.970	ug/ml#	93
50) Acenaphthylene	7.673	152	23113	0.989	ug/ml	97
51) 2,6-Dinitrotoluene	7.623	165	3324	0.956	ug/ml#	77
52) 1,2-Dinitrobenzene	7.670	168	1134	0.839	ug/ml#	1
62) 3-Nitroaniline	7.779	138	3564	0.921	ug/ml#	89
63) Acenaphthene	7.844	154	13771	1.023	ug/ml	95
64) 2,4-Dinitrophenol	7.881	184	818	0.385	ug/ml#	25
65) Dibenzofuran	8.015	168	23517	1.019	ug/ml	89
66) 2,4-Dinitrotoluene	8.012	165	3916	0.786	ug/ml	94
67) 4-Nitrophenol	7.959	65	2895	0.907	ug/ml	97
68) 2,3,5,6-Tetrachlorophenol	8.102	232	4889	0.872	ug/ml	96
69) 2,3,4,6-Tetrachlorophenol	8.143	232	5180	0.953	ug/ml	97
70) Diethyl phthalate	8.267	149	17269	0.979	ug/ml	96
71) Fluorene	8.348	166	17712	1.023	ug/ml	95
72) 4-Chlorophenyl phenyl ...	8.363	204	9410	1.010	ug/ml#	84

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240228ical\
Data File : ABNL3.D
Acq On : 28 Feb 2024 11:30 pm
Operator : Dakota:ljg
Sample : IL8,32,,ABNL1 Lot# 10529
Misc : WG1890771,,
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Feb 29 09:03:19 2024
Quant Method : I:\8270\Dakota\240228ical\FS240228LVIDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Feb 29 08:54:57 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\240228ical\ABNL6.D
Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
73)	4-Nitroaniline	8.366	138	3266	0.824	ug/ml	96
74)	4,6-Dinitro-o-cresol	8.401	198	1934	0.666	ug/ml#	59
75)	NDPA/DPA	8.472	169	14372	0.962	ug/ml	92
76)	Azobenzene	8.512	77	15755	1.019	ug/ml	99
78)	4-Bromophenyl phenyl e...	8.833	248	6257	1.047	ug/ml#	73
79)	Hexachlorobenzene	8.885	284	7609	1.044	ug/ml#	77
80)	Pentachlorophenol	9.081	266	3941	0.818	ug/ml	98
86)	Phenanthrene	9.271	178	29418	1.026	ug/ml	99
87)	Anthracene	9.321	178	29531	1.027	ug/ml	99
88)	Carbazole	9.485	167	27168	0.995	ug/ml	98
89)	Di-n-butylphthalate	9.864	149	28916	0.926	ug/ml	99
90)	Fluoranthene	10.427	202	36591	1.044	ug/ml#	91
91)	Benzidine	10.576	184	19127	0.864	ug/ml#	95
92)	Pyrene	10.648	202	38061	1.001	ug/ml	99
94)	Butyl benzyl phthalate	11.353	149	11642	0.833	ug/ml	88
102)	Benzo(a)anthracene	11.891	228	38798	0.968	ug/ml	99
103)	3,3'-Dichlorobenzidine	11.885	252	13478	0.852	ug/ml#	97
104)	Chrysene	11.928	228	41121	1.088	ug/ml	99
105)	Bis(2-ethylhexyl)phtha...	11.993	149	16806	0.759	ug/ml#	93
106)	Di-n-octylphthalate	12.674	149	25398	0.670	ug/ml#	85
107)	Benzo(b)fluoranthene	13.004	252	39022	0.913	ug/ml#	91
108)	Benzo(k)fluoranthene	13.028	252	39997	0.973	ug/ml#	93
109)	Benzo(a)pyrene	13.321	252	37509	0.948	ug/ml#	92
111)	Indeno(1,2,3-cd)pyrene	14.334	276	43184M6	0.930	ug/mL	
112)	Dibenzo(a,h)anthracene	14.353	278	39747	0.928	ug/ml#	89
113)	Benzo(ghi)perylene	14.548	276	41548	1.004	ug/ml#	84

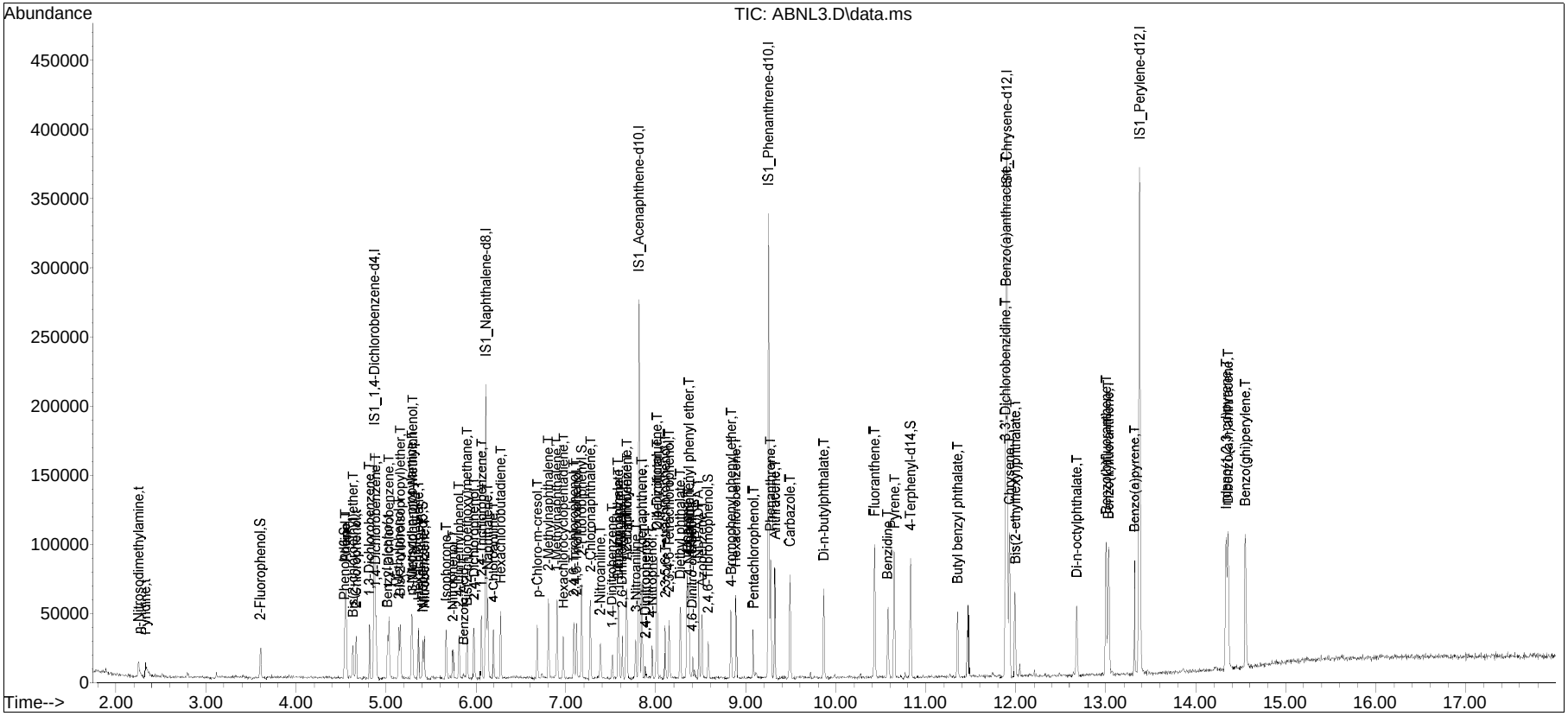
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240228ical\
Data File : ABNL3.D
Acq On : 28 Feb 2024 11:30 pm
Operator : Dakota:ljg
Sample : IL8,32,,ABNL1 Lot# 10529
Misc : WG1890771,,
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Feb 29 09:03:19 2024
Quant Method : I:\8270\Dakota\240228ical\FS240228LVIDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Feb 29 08:54:57 2024
Response via : Initial Calibration

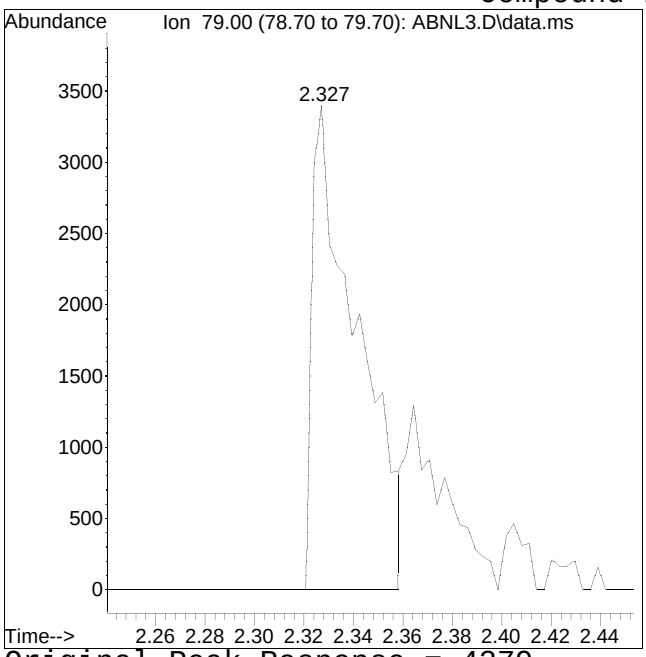
Sub List : ABNical - ABN ical sublistcal\ABNL6.D•

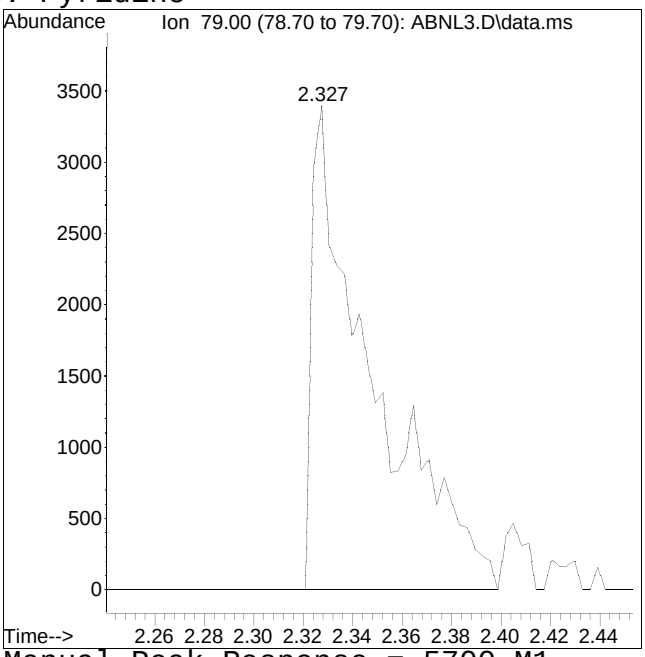


Manual Integration Report

Data Path : I:\8270\Dakota\240228ical\QMethod : FS240228LVIDakota.m
Data File : ABNL3.D Operator : Dakota:ljg
Date Inj'd : 2/28/2024 11:30 pm Instrument : Dakota
Sample : IL8,32,,ABNL1 Lot# 10529 Quant Date : 2/29/2024 8:56 am

Compound #3: Pyridine



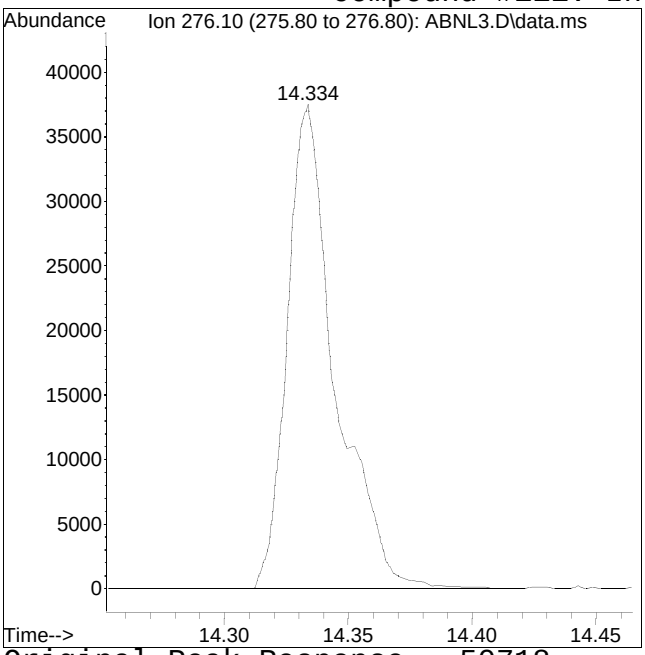


Original Peak Response = 4279 Manual Peak Response = 5700 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

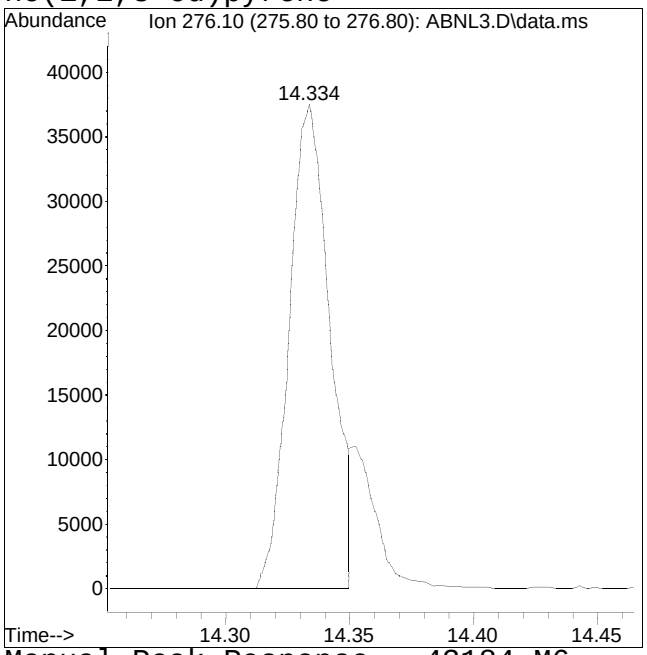
Manual Integration Report

Data Path : I:\8270\Dakota\240228ical\QMethod : FS240228LVIDakota.m
Data File : ABNL3.D Operator : Dakota:ljg
Date Inj'd : 2/28/2024 11:30 pm Instrument : Dakota
Sample : IL8,32,,ABNL1 Lot# 10529 Quant Date : 2/29/2024 8:56 am

Compound #111: Indeno(1,2,3-cd)pyrene



Original Peak Response = 50718



Manual Peak Response = 43184 M6

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240228ical\
Data File : ABNL2.D
Acq On : 28 Feb 2024 11:52 pm
Operator : Dakota:ljg
Sample : IL9,32,,ABNL0.4 Lot# 10530
Misc : WG1890771,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Feb 29 09:02:24 2024
Quant Method : I:\8270\Dakota\240228ical\FS240228LVIDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Feb 29 08:54:57 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\240228ical\ABNL6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	4.870	152	24666	4.000	ug/ml	0.00
Standard Area 1 = 24358			Recovery = 101.26%			
33) IS1_Naphthalene-d8	6.107	136	86295	4.000	ug/ml	# 0.00
Standard Area 1 = 83339			Recovery = 103.55%			
61) IS1_Acenaphthene-d10	7.813	164	55862	4.000	ug/ml	0.00
Standard Area 1 = 55337			Recovery = 100.95%			
85) IS1_Phenanthrene-d10	9.249	188	124179	4.000	ug/ml	0.00
Standard Area 1 = 117827			Recovery = 105.39%			
101) IS1_Chrysene-d12	11.900	240	127781	4.000	ug/ml	# 0.00
Standard Area 1 = 124719			Recovery = 102.46%			
110) IS1_Perylene-d12	13.377	264	149050	4.000	ug/ml	0.00
Standard Area 1 = 144564			Recovery = 103.10%			
System Monitoring Compounds						
4) 2-Fluorophenol	3.605	112	2350	0.374	ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 7.48%#			
7) Phenol-d6	4.540	99	3166	0.387	ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 7.74%#			
19) Nitrobenzene-d5	5.411	82	2926	0.400	ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 16.00%#			
44) 2-Fluorobiphenyl	7.173	172	7996	0.431	ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 17.24%#			
77) 2,4,6-Tribromophenol	8.581	330	1429	0.395	ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 7.90%#			
93) 4-Terphenyl-d14	10.831	244	12186	0.394	ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 15.76%#			
Target Compounds						Qvalue
2) n-Nitrosodimethylamine	2.256	74	1614	0.365	ug/ml#	92
3) Pyridine	2.349	79	2296M1	0.323	ug/ml	
5) Aniline	4.553	93	3783	0.404	ug/ml#	43
6) 2-Chlorophenol	4.665	128	3018	0.433	ug/ml#	89
8) Phenol	4.553	94	3419	0.375	ug/ml#	46
9) Bis(2-chloroethyl)ether	4.631	93	2571	0.405	ug/ml	95
10) 1,3-Dichlorobenzene	4.814	146	3572	0.412	ug/ml	94
11) 1,4-Dichlorobenzene	4.885	146	3556	0.404	ug/ml	91
12) 1,2-Dichlorobenzene	5.035	146	3387	0.398	ug/ml	90
13) Benzyl alcohol	5.019	79	2358	0.410	ug/ml	90
14) Bis(2-chloroisopropyl)...	5.159	45	5367	0.420	ug/ml#	82

Data Path : I:\8270\Dakota\240228ical\
Data File : ABNL2.D
Acq On : 28 Feb 2024 11:52 pm
Operator : Dakota:ljg
Sample : IL9,32,,ABNL0.4 Lot# 10530
Misc : WG1890771,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Feb 29 09:02:24 2024
Quant Method : I:\8270\Dakota\240228ical\FS240228LVIDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Feb 29 08:54:57 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\240228ical\ABNL6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
15) 2-Methylphenol	5.143	108	2301	0.383	ug/ml	92
16) Hexachloroethane	5.364	117	1437	0.455	ug/ml#	62
17) n-Nitrosodi-n-propylamine	5.290	70	2071	0.404	ug/ml#	59
18) 3-Methylphenol/4-Methy...	5.299	108	2790	0.425	ug/ml#	93
20) Nitrobenzene	5.429	77	3030	0.428	ug/ml#	83
21) Isophorone	5.672	82	4729	0.366	ug/ml#	92
22) 2-Nitrophenol	5.743	139	1223	0.349	ug/ml#	72
23) 2,4-Dimethylphenol	5.809	107	2120	0.400	ug/ml	94
24) Bis(2-chloroethoxy)met...	5.899	93	3387	0.413	ug/ml#	91
25) 2,4-Dichlorophenol	5.983	162	2565	0.364	ug/ml#	91
26) 1,2,4-Trichlorobenzene	6.060	180	3416	0.388	ug/ml	96
34) Naphthalene	6.126	128	8813	0.426	ug/ml	99
35) Benzoic Acid	0.000		0	N.D.		
36) 4-Chloroaniline	6.194	65	992	0.379	ug/ml#	68
37) Hexachlorobutadiene	6.275	225	2174	0.423	ug/ml	99
38) p-Chloro-m-cresol	6.685	107	2195	0.372	ug/ml	87
39) 2-Methylnaphthalene	6.806	142	6504	0.450	ug/ml	93
40) 1-Methylnaphthalene	6.903	115	1775	0.379	ug/ml	76
41) Hexachlorocyclopentadiene	6.977	237	1890	0.379	ug/ml#	88
42) 2,4,6-Trichlorophenol	7.092	196	2130	0.376	ug/ml	87
43) 2,4,5-Trichlorophenol	7.117	196	2617	0.417	ug/ml	93
45) 2-Chloronaphthalene	7.273	162	6449	0.415	ug/ml#	90
46) 2-Nitroaniline	7.381	138	1584	0.369	ug/ml#	83
47) 1,4-Dinitrobenzene	7.512	168	567	0.313	ug/ml	88
48) 1,3-Dinitrobenzene	7.586	168	871	0.407	ug/ml#	1
49) Dimethyl phthalate	7.577	163	7201	0.406	ug/ml#	93
50) Acenaphthylene	7.673	152	9716	0.405	ug/ml	98
51) 2,6-Dinitrotoluene	7.621	165	1307	0.366	ug/ml#	82
52) 1,2-Dinitrobenzene	7.664	168	482M3	0.347	ug/ml	
62) 3-Nitroaniline	7.779	138	1238	0.308	ug/ml#	78
63) Acenaphthene	7.844	154	5630	0.402	ug/ml	84
64) 2,4-Dinitrophenol	0.000		0	N.D.		
65) Dibenzofuran	8.012	168	10103	0.421	ug/ml	88
66) 2,4-Dinitrotoluene	8.012	165	1622	0.313	ug/ml	94
67) 4-Nitrophenol	7.956	65	1117	0.337	ug/ml	97
68) 2,3,5,6-Tetrachlorophenol	8.105	232	1946	0.334	ug/ml	99
69) 2,3,4,6-Tetrachlorophenol	8.143	232	1838	0.325	ug/ml	90
70) Diethyl phthalate	8.267	149	7200	0.393	ug/ml	99
71) Fluorene	8.345	166	7567	0.421	ug/ml	89
72) 4-Chlorophenyl phenyl ...	8.360	204	3877	0.400	ug/ml#	85

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240228ical\
Data File : ABNL2.D
Acq On : 28 Feb 2024 11:52 pm
Operator : Dakota:ljg
Sample : IL9,32,,ABNL0.4 Lot# 10530
Misc : WG1890771,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Feb 29 09:02:24 2024
Quant Method : I:\8270\Dakota\240228ical\FS240228LVIDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Feb 29 08:54:57 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\240228ical\ABNL6.D
Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
73)	4-Nitroaniline	8.367	138	1128	0.274	ug/ml	#	72
74)	4,6-Dinitro-o-cresol	8.407	198	522	0.173	ug/ml	#	1
75)	NDPA/DPA	8.475	169	6423	0.414	ug/ml		99
76)	Azobenzene	8.510	77	6357	0.396	ug/ml		95
78)	4-Bromophenyl phenyl e...	8.830	248	2390	0.385	ug/ml	#	73
79)	Hexachlorobenzene	8.886	284	3086	0.407	ug/ml	#	75
80)	Pentachlorophenol	9.075	266	1518	0.303	ug/ml		96
86)	Phenanthrene	9.271	178	12896	0.425	ug/ml		98
87)	Anthracene	9.318	178	12192	0.401	ug/ml		97
88)	Carbazole	9.485	167	10937	0.379	ug/ml		99
89)	Di-n-butylphthalate	9.868	149	11651	0.352	ug/ml		98
90)	Fluoranthene	10.427	202	16525	0.445	ug/ml	#	90
91)	Benzidine	10.576	184	9074	0.387	ug/ml	#	92
92)	Pyrene	10.648	202	16852	0.419	ug/ml		98
94)	Butyl benzyl phthalate	11.353	149	4832	0.327	ug/ml		87
102)	Benzo(a)anthracene	11.891	228	17063	0.406	ug/ml		98
103)	3,3'-Dichlorobenzidine	11.885	252	5661	0.341	ug/ml	#	97
104)	Chrysene	11.928	228	17719	0.447	ug/ml		98
105)	Bis(2-ethylhexyl)phtha...	11.994	149	6768	0.291	ug/ml	#	93
106)	Di-n-octylphthalate	12.674	149	10592	0.266	ug/ml	#	91
107)	Benzo(b)fluoranthene	13.001	252	17068	0.381	ug/ml	#	90
108)	Benzo(k)fluoranthene	13.032	252	16835	0.391	ug/ml	#	91
109)	Benzo(a)pyrene	13.318	252	15270	0.368	ug/ml	#	92
111)	Indeno(1,2,3-cd)pyrene	14.331	276	17046M6	0.358	ug/mL		
112)	Dibenzo(a,h)anthracene	14.353	278	16350	0.372	ug/ml	#	91
113)	Benzo(ghi)perylene	14.552	276	16916	0.398	ug/ml	#	86

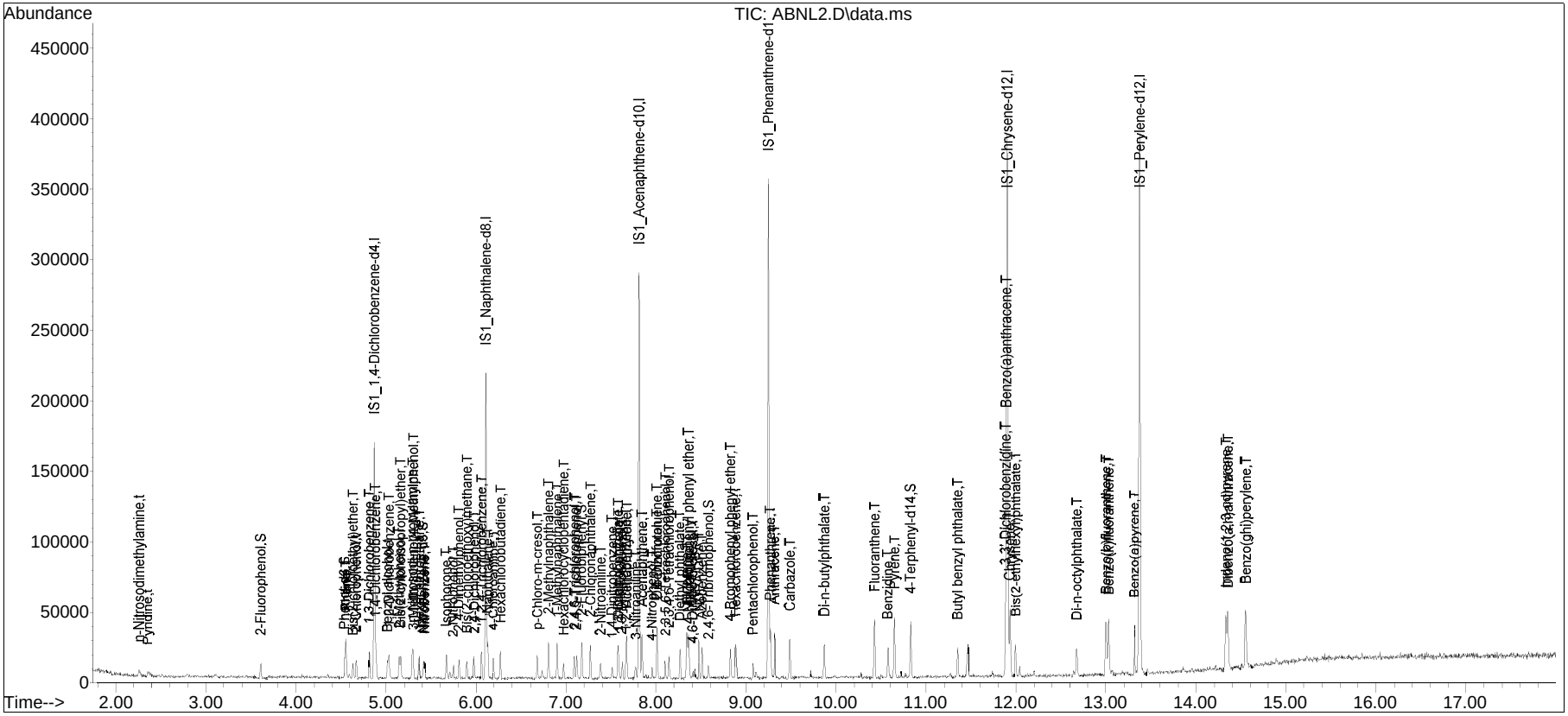
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240228ical\
Data File : ABNL2.D
Acq On : 28 Feb 2024 11:52 pm
Operator : Dakota:ljg
Sample : IL9,32,,ABNL0.4 Lot# 10530
Misc : WG1890771,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Feb 29 09:02:24 2024
Quant Method : I:\8270\Dakota\240228ical\FS240228LVIDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Feb 29 08:54:57 2024
Response via : Initial Calibration

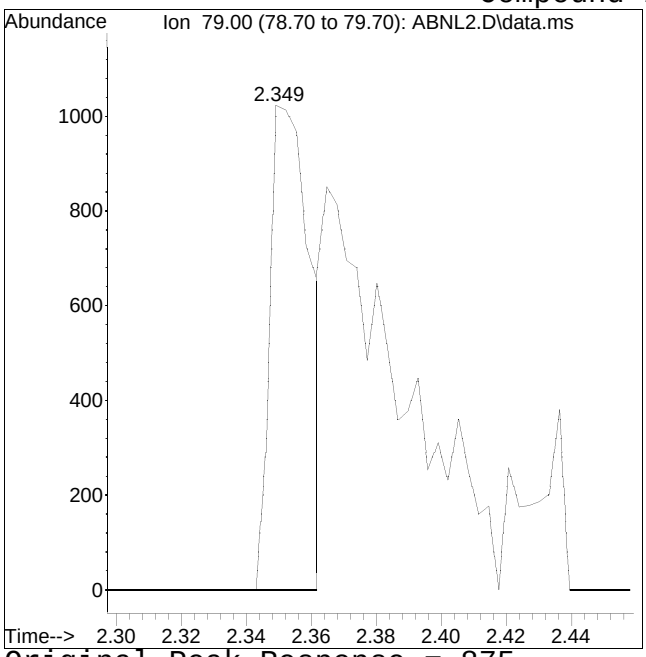
Sub List : ABNical - ABN ical sublistcal\ABNL6.D•

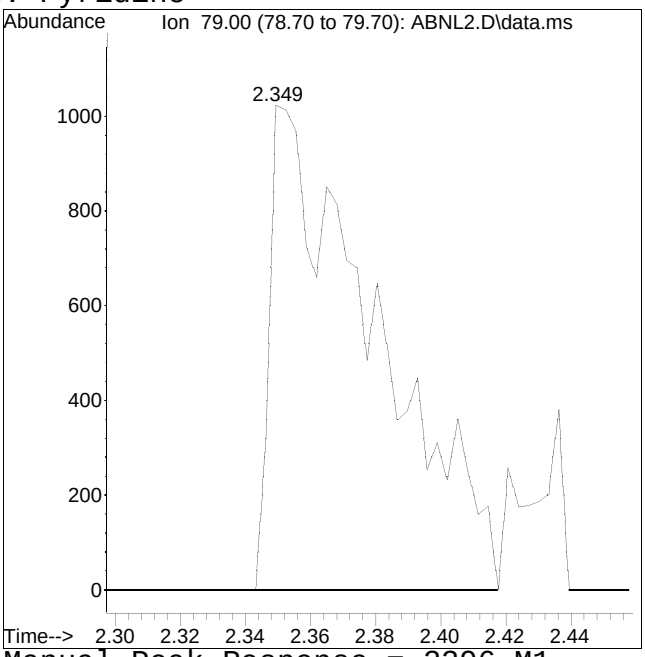


Manual Integration Report

Data Path : I:\8270\Dakota\240228ical\QMethod : FS240228LVIDakota.m
Data File : ABNL2.D Operator : Dakota:ljg
Date Inj'd : 2/28/2024 11:52 pm Instrument : Dakota
Sample : IL9,32,,ABNL0.4 Lot# 10530Quant Date : 2/29/2024 8:56 am

Compound #3: Pyridine



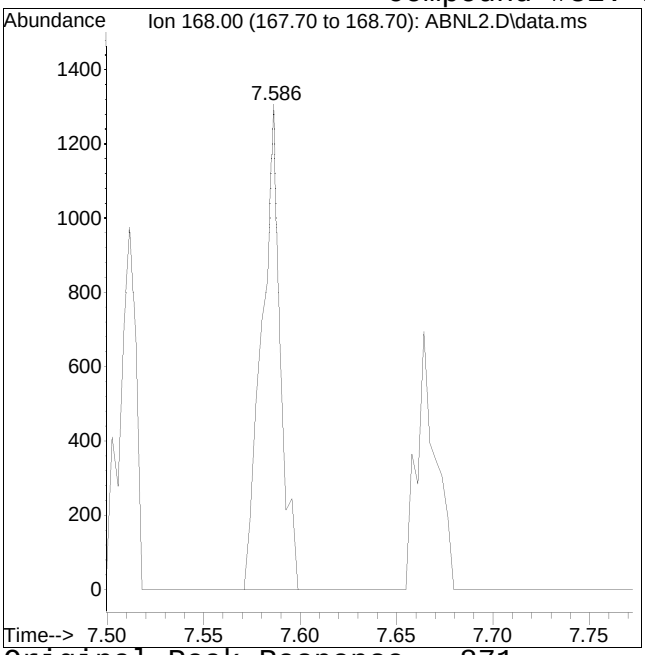


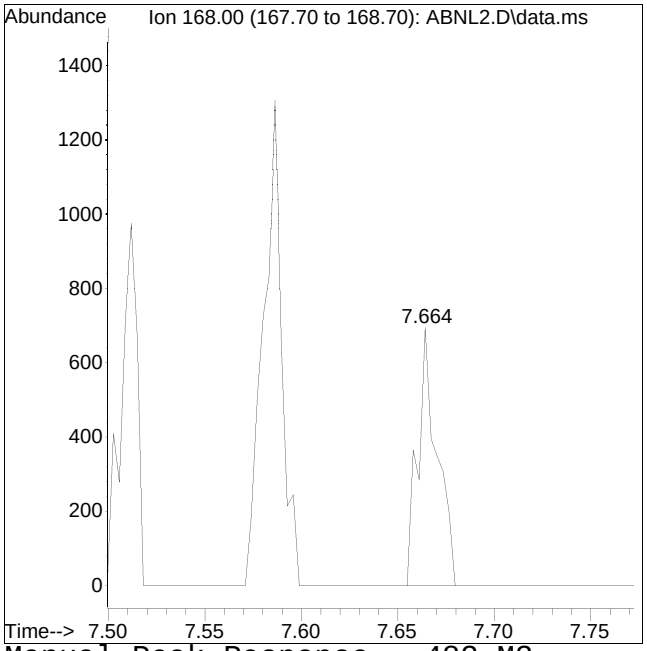
Original Peak Response = 875 Manual Peak Response = 2296 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

Data Path : I:\8270\Dakota\240228ical\QMethod : FS240228LVIDakota.m
Data File : ABNL2.D Operator : Dakota:ljg
Date Inj'd : 2/28/2024 11:52 pm Instrument : Dakota
Sample : IL9,32,,ABNL0.4 Lot# 10530Quant Date : 2/29/2024 8:56 am

Compound #52: 1,2-Dinitrobenzene





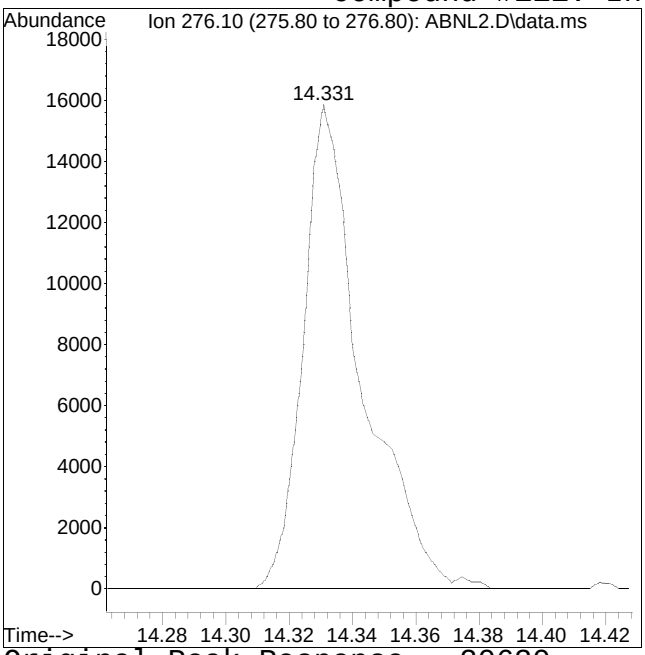
Original Peak Response = 871 Manual Peak Response = 482 M3

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

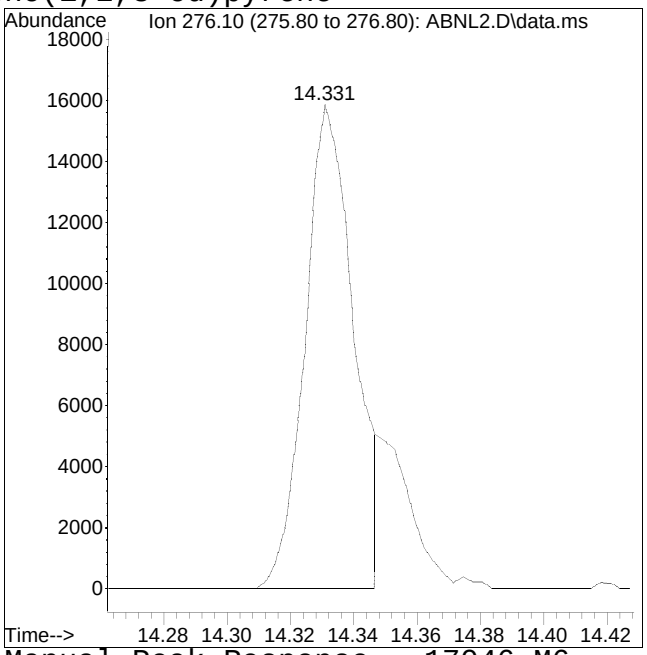
Manual Integration Report

Data Path : I:\8270\Dakota\240228ical\QMethod : FS240228LVIDakota.m
Data File : ABNL2.D Operator : Dakota:ljg
Date Inj'd : 2/28/2024 11:52 pm Instrument : Dakota
Sample : IL9,32,,ABNL0.4 Lot# 10530Quant Date : 2/29/2024 8:56 am

Compound #111: Indeno(1,2,3-cd)pyrene



Original Peak Response = 20630



Manual Peak Response = 17046 M6

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240228ical\
Data File : ABNL1.D
Acq On : 29 Feb 2024 12:15 am
Operator : Dakota:ljg
Sample : IL10,32,,ABNL0.2 Lot# 10531
Misc : WG1890771,,
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Feb 29 09:00:05 2024
Quant Method : I:\8270\Dakota\240228ical\FS240228LVIDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Feb 29 08:54:57 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\240228ical\ABNL6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	4.870	152	25068	4.000	ug/ml	0.00
Standard Area 1 = 24358			Recovery = 102.91%			
33) IS1_Naphthalene-d8	6.107	136	92065	4.000	ug/ml	# 0.00
Standard Area 1 = 83339			Recovery = 110.47%			
61) IS1_Acenaphthene-d10	7.813	164	58089	4.000	ug/ml	0.00
Standard Area 1 = 55337			Recovery = 104.97%			
85) IS1_Phenanthrene-d10	9.249	188	121143	4.000	ug/ml	0.00
Standard Area 1 = 117827			Recovery = 102.81%			
101) IS1_Chrysene-d12	11.900	240	124017	4.000	ug/ml	0.00
Standard Area 1 = 124719			Recovery = 99.44%			
110) IS1_Perylene-d12	13.377	264	147493	4.000	ug/ml	0.00
Standard Area 1 = 144564			Recovery = 102.03%			
System Monitoring Compounds						
4) 2-Fluorophenol	3.602	112	1363	0.214	ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 4.28%#			
7) Phenol-d6	4.543	99	1644	0.198	ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 3.96%#			
19) Nitrobenzene-d5	5.411	82	1598	0.215	ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 8.60%#			
44) 2-Fluorobiphenyl	7.176	172	3767	0.190	ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 7.60%#			
77) 2,4,6-Tribromophenol	8.578	330	740	0.197	ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 3.94%#			
93) 4-Terphenyl-d14	10.831	244	7018	0.232	ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 9.28%#			
Target Compounds						Qvalue
2) n-Nitrosodimethylamine	2.259	74	854	0.190	ug/ml#	86
3) Pyridine	2.386	79	1141M2	0.158	ug/ml	
5) Aniline	4.556	93	1833	0.193	ug/ml#	35
6) 2-Chlorophenol	4.665	128	1264	0.178	ug/ml#	91
8) Phenol	4.553	94	1625	0.176	ug/ml#	34
9) Bis(2-chloroethyl)ether	4.630	93	1405	0.218	ug/ml#	82
10) 1,3-Dichlorobenzene	4.814	146	1957	0.222	ug/ml	92
11) 1,4-Dichlorobenzene	4.885	146	2155M3	0.241	ug/ml	
12) 1,2-Dichlorobenzene	5.034	146	1828	0.211	ug/ml	94
13) Benzyl alcohol	5.025	79	1024	0.175	ug/ml#	88
14) Bis(2-chloroisopropyl)...	5.159	45	2975	0.229	ug/ml#	63

Data Path : I:\8270\Dakota\240228ical\
Data File : ABNL1.D
Acq On : 29 Feb 2024 12:15 am
Operator : Dakota:ljg
Sample : IL10,32,,ABNL0.2 Lot# 10531
Misc : WG1890771,,
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Feb 29 09:00:05 2024
Quant Method : I:\8270\Dakota\240228ical\FS240228LVIDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Feb 29 08:54:57 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\240228ical\ABNL6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
15) 2-Methylphenol	5.143	108	1345	0.220	ug/ml#	83
16) Hexachloroethane	5.367	117	687	0.214	ug/ml#	34
17) n-Nitrosodi-n-propylamine	5.289	70	1043	0.200	ug/ml#	59
18) 3-Methylphenol/4-Methy...	5.296	108	1729	0.259	ug/ml#	75
20) Nitrobenzene	5.429	77	1520	0.211	ug/ml#	88
21) Isophorone	5.672	82	2684	0.205	ug/ml#	65
22) 2-Nitrophenol	0.000		0	N.D.		
23) 2,4-Dimethylphenol	5.811	107	1176	0.218	ug/ml	89
24) Bis(2-chloroethoxy)met...	5.902	93	1802	0.216	ug/ml#	91
25) 2,4-Dichlorophenol	5.979	162	1341	0.187	ug/ml#	74
26) 1,2,4-Trichlorobenzene	6.057	180	1957	0.218	ug/ml#	80
34) Naphthalene	6.125	128	4487	0.204	ug/ml	95
35) Benzoic Acid	0.000		0	N.D.		
36) 4-Chloroaniline	6.197	65	629	0.225	ug/ml#	69
37) Hexachlorobutadiene	6.271	225	930	0.169	ug/ml	92
38) p-Chloro-m-cresol	6.682	107	1250	0.199	ug/ml#	87
39) 2-Methylnaphthalene	6.806	142	3317	0.215	ug/ml#	92
40) 1-Methylnaphthalene	6.902	115	1189	0.238	ug/ml	81
41) Hexachlorocyclopentadiene	6.980	237	856	0.161	ug/ml#	93
42) 2,4,6-Trichlorophenol	7.095	196	1129	0.187	ug/ml#	80
43) 2,4,5-Trichlorophenol	7.123	196	1288	0.193	ug/ml#	73
45) 2-Chloronaphthalene	7.275	162	3433	0.207	ug/ml#	90
46) 2-Nitroaniline	7.387	138	650	0.142	ug/ml#	60
47) 1,4-Dinitrobenzene	0.000		0	N.D.		
48) 1,3-Dinitrobenzene	0.000		0	N.D.		
49) Dimethyl phthalate	7.577	163	3821	0.202	ug/ml#	77
50) Acenaphthylene	7.673	152	4834	0.189	ug/ml	98
51) 2,6-Dinitrotoluene	7.620	165	554	0.145	ug/ml#	34
52) 1,2-Dinitrobenzene	0.000		0	N.D.		
62) 3-Nitroaniline	0.000		0	N.D.		
63) Acenaphthene	7.844	154	2862	0.197	ug/ml#	81
64) 2,4-Dinitrophenol	0.000		0	N.D.		
65) Dibenzofuran	8.015	168	5085	0.204	ug/ml	91
66) 2,4-Dinitrotoluene	8.009	165	764	0.142	ug/ml	96
67) 4-Nitrophenol	7.959	65	580	0.168	ug/ml#	64
68) 2,3,5,6-Tetrachlorophenol	8.102	232	1072	0.177	ug/ml#	59
69) 2,3,4,6-Tetrachlorophenol	8.143	232	962	0.164	ug/ml#	71
70) Diethyl phthalate	8.267	149	3832	0.201	ug/ml#	87
71) Fluorene	8.345	166	3974	0.212	ug/ml	98
72) 4-Chlorophenyl phenyl ...	8.357	204	2108	0.209	ug/ml#	83

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240228ical\
Data File : ABNL1.D
Acq On : 29 Feb 2024 12:15 am
Operator : Dakota:ljg
Sample : IL10,32,,ABNL0.2 Lot# 10531
Misc : WG1890771,,
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Feb 29 09:00:05 2024
Quant Method : I:\8270\Dakota\240228ical\FS240228LVIDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Feb 29 08:54:57 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\240228ical\ABNL6.D
Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
73)	4-Nitroaniline	8.366	138	521	0.122	ug/ml#	64
74)	4,6-Dinitro-o-cresol	0.000		0	N.D.		
75)	NDPA/DPA	8.475	169	2859	0.177	ug/ml#	81
76)	Azobenzene	8.512	77	3627	0.217	ug/ml	96
78)	4-Bromophenyl phenyl e...	8.833	248	1166	0.181	ug/ml#	74
79)	Hexachlorobenzene	8.889	284	1542	0.196	ug/ml#	51
80)	Pentachlorophenol	9.078	266	602	0.116	ug/ml#	19
86)	Phenanthrene	9.271	178	6765	0.229	ug/ml	97
87)	Anthracene	9.321	178	6517	0.220	ug/ml	97
88)	Carbazole	9.485	167	6500	0.231	ug/ml	98
89)	Di-n-butylphthalate	9.864	149	6274	0.195	ug/ml#	79
90)	Fluoranthene	10.427	202	8469	0.234	ug/ml#	91
91)	Benzidine	10.576	184	4088	0.179	ug/ml#	85
92)	Pyrene	10.648	202	9069	0.231	ug/ml	96
94)	Butyl benzyl phthalate	11.356	149	2447	0.170	ug/ml#	87
102)	Benzo(a)anthracene	11.891	228	9371	0.230	ug/ml	97
103)	3,3'-Dichlorobenzidine	11.885	252	2865	0.178	ug/ml#	85
104)	Chrysene	11.925	228	9712	0.252	ug/ml	96
105)	Bis(2-ethylhexyl)phtha...	11.994	149	3261	0.145	ug/ml#	90
106)	Di-n-octylphthalate	12.674	149	5644	0.146	ug/ml#	89
107)	Benzo(b)fluoranthene	13.004	252	8706	0.200	ug/ml#	92
108)	Benzo(k)fluoranthene	13.032	252	9180	0.219	ug/ml#	93
109)	Benzo(a)pyrene	13.321	252	7370	0.183	ug/ml#	90
111)	Indeno(1,2,3-cd)pyrene	14.334	276	8604M6	0.182	ug/mL	
112)	Dibenzo(a,h)anthracene	14.353	278	8022	0.184	ug/ml#	90
113)	Benzo(ghi)perylene	14.551	276	8799	0.209	ug/ml#	83

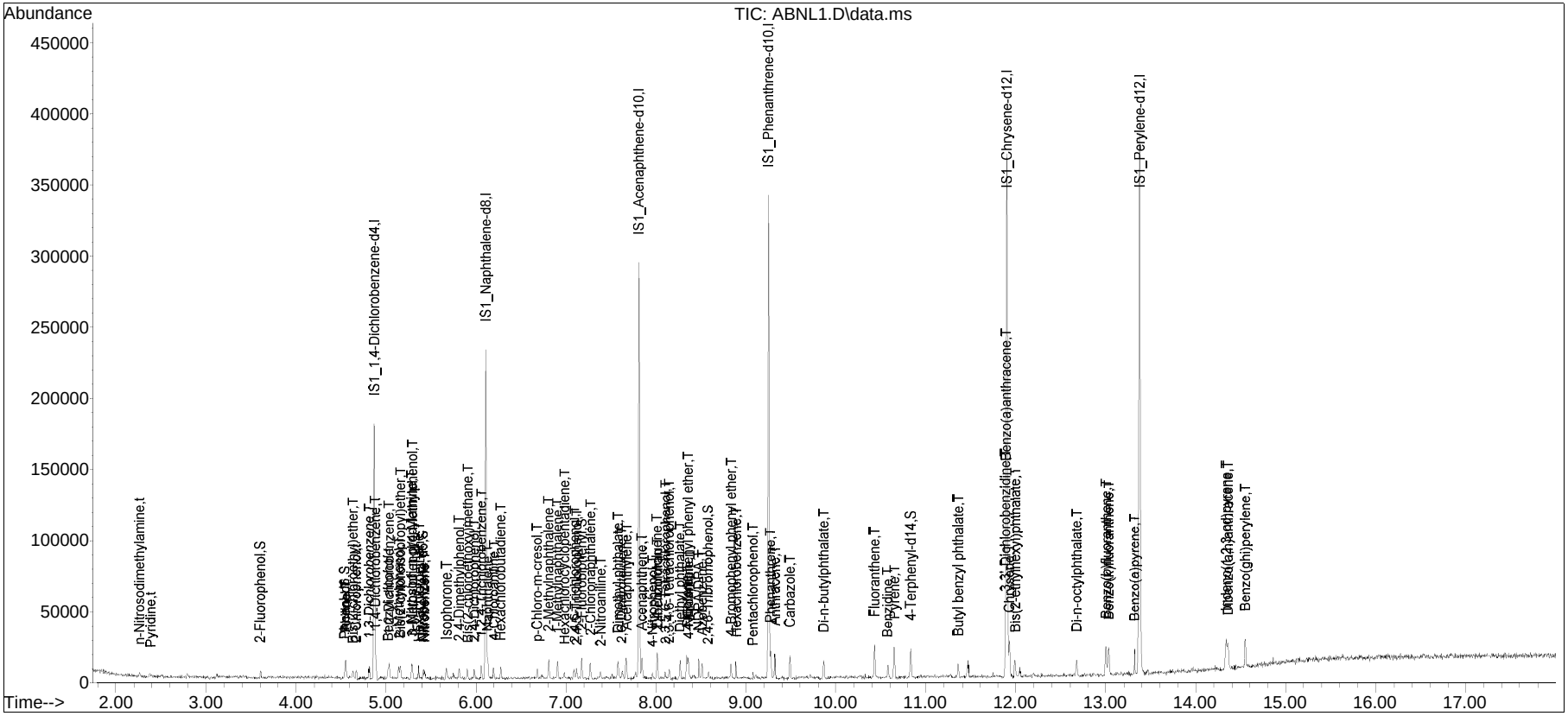
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240228ical\
Data File : ABNL1.D
Acq On : 29 Feb 2024 12:15 am
Operator : Dakota:ljg
Sample : IL10,32,,ABNL0.2 Lot# 10531
Misc : WG1890771,,
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Feb 29 09:00:05 2024
Quant Method : I:\8270\Dakota\240228ical\FS240228LVIDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Feb 29 08:54:57 2024
Response via : Initial Calibration

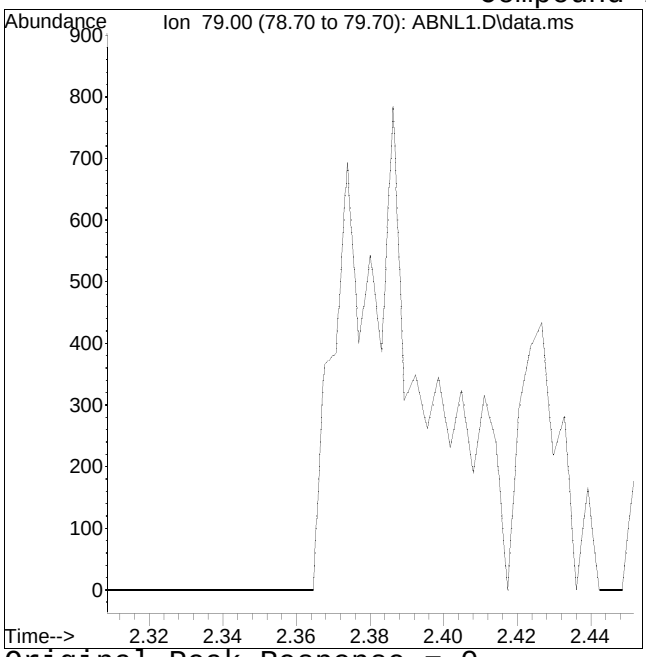
Sub List : ABNical - ABN ical sublistcal\ABNL6.D•

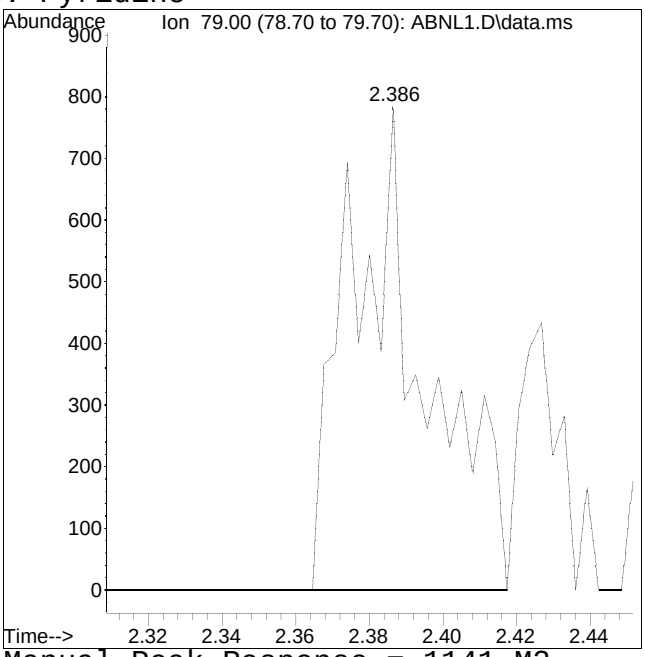


Manual Integration Report

Data Path : I:\8270\Dakota\240228ical\QMethod : FS240228LVIDakota.m
Data File : ABNL1.D Operator : Dakota:ljg
Date Inj'd : 2/29/2024 12:15 am Instrument : Dakota
Sample : IL10,32,,ABNL0.2 Lot# 1053Quant Date : 2/29/2024 8:55 am

Compound #3: Pyridine



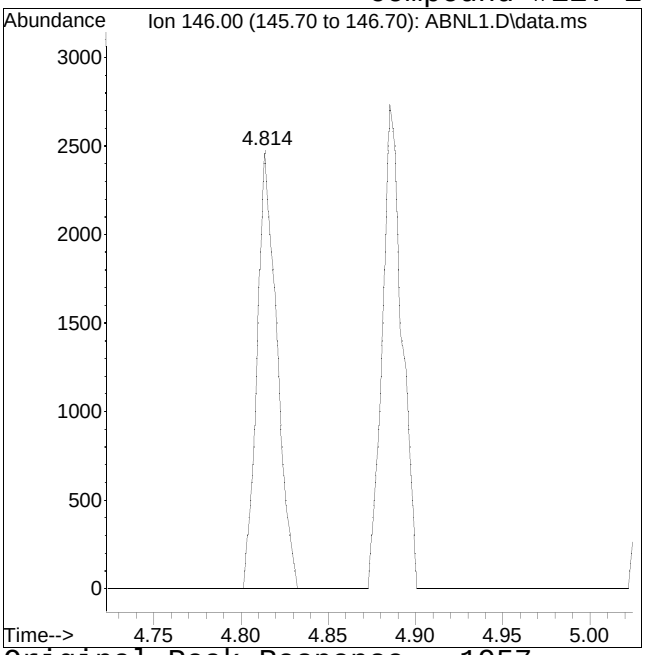


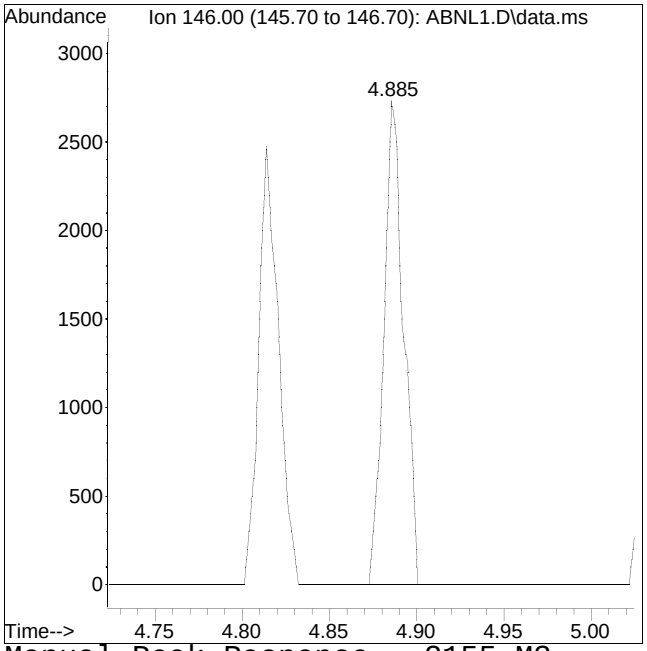
Original Peak Response = 0 Manual Peak Response = 1141 M2
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\8270\Dakota\240228ical\QMethod : FS240228LVIDakota.m
Data File : ABNL1.D Operator : Dakota:ljg
Date Inj'd : 2/29/2024 12:15 am Instrument : Dakota
Sample : IL10,32,,ABNL0.2 Lot# 1053Quant Date : 2/29/2024 8:55 am

Compound #11: 1,4-Dichlorobenzene



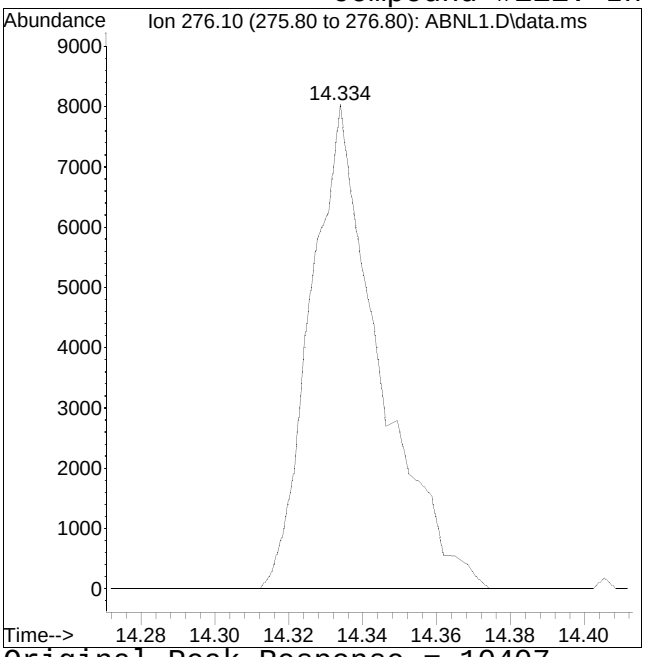


Original Peak Response = 1957 Manual Peak Response = 2155 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

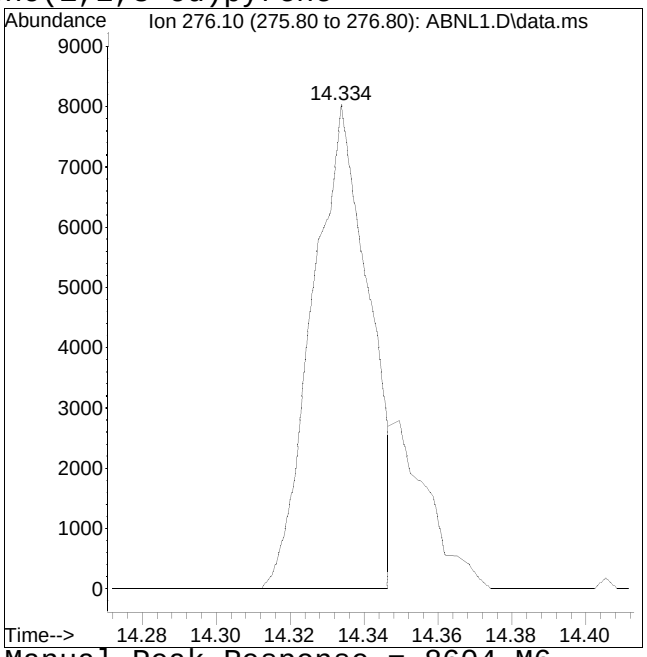
Manual Integration Report

Data Path : I:\8270\Dakota\240228ical\QMethod : FS240228LVIDakota.m
Data File : ABNL1.D Operator : Dakota:ljg
Date Inj'd : 2/29/2024 12:15 am Instrument : Dakota
Sample : IL10,32,,ABNL0.2 Lot# 1053Quant Date : 2/29/2024 8:55 am

Compound #111: Indeno(1,2,3-cd)pyrene



Original Peak Response = 10407



Manual Peak Response = 8604 M6

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240228ical\
Data File : APDPL10.D
Acq On : 29 Feb 2024 12:37 am
Operator : Dakota:ljg
Sample : IL11,32,,APDPL50 Lot# 10487
Misc : WG1890771,,
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Feb 29 09:45:41 2024
Quant Method : I:\8270\Dakota\240228ical\FS240228LVIDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Feb 29 08:54:57 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\240228ical\APDPL6.D
Sub List : AP9ADP_REV1 - Combined adp and ap9 sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
27) IS2_1,4-Dichlorobenzen...	4.870	152	21896	4.000	ug/ml	0.00
Standard Area 1 = 24107			Recovery =	90.83%		
53) IS2_Naphthalene-d8	6.107	136	77511	4.000	ug/ml	# 0.00
Standard Area 1 = 86634			Recovery =	89.47%		
81) IS2_Acenaphthene-d10	7.813	164	49048	4.000	ug/ml	0.00
Standard Area 1 = 54508			Recovery =	89.98%		
95) IS2_Phenanthrene-d10	9.249	188	103941	4.000	ug/ml	0.00
Standard Area 1 = 119932			Recovery =	86.67%		
System Monitoring Compounds						
Target Compounds						Qvalue
28) Benzaldehyde	4.438	105	151601	58.932	ug/ml	93
29) Acetophenone	5.271	105	516364	53.960	ug/ml#	83
30) m-Toluidine	5.348	106	385101	56.456	ug/ml	95
31) 2-Chloroaniline	5.709	127	447203	54.585	ug/ml	94
32) n-Decane	4.755	57	412335	55.732	ug/ml#	31
54) a-Terpineol	6.163	59	332676	55.863	ug/ml	91
55) 3-Chloroaniline	6.175	65	142923	55.236	ug/ml	88
56) 2,6-Dichlorophenol	6.206	162	344979	54.787	ug/ml#	84
57) 1-chloro-2-nitrobenzene	6.458	111	142246	56.461	ug/ml#	1
58) Caprolactam	6.508	55	187561	58.575	ug/ml#	86
59) 1,2,4,5-Tetrachloroben...	6.977	216	461459	53.016	ug/ml#	97
60) Biphenyl	7.269	154	916020	51.841	ug/ml	98
82) Dichloran	8.944	206	144131	64.183	ug/ml#	59
83) Pentachloronitrobenzene	9.097	237	140590	57.895	ug/ml#	74
84) Atrazine	9.016	200	285639	57.609	ug/ml	93
96) Diphenamid	10.150	167	711660	59.831	ug/ml#	79
98) n-Octadecane	9.212	57	602094	No Calib #		
99) Parathion	10.029	109	163102	No Calib		
100) 3,3'-Dimethylbenzidine	11.325	212	982924	No Calib		

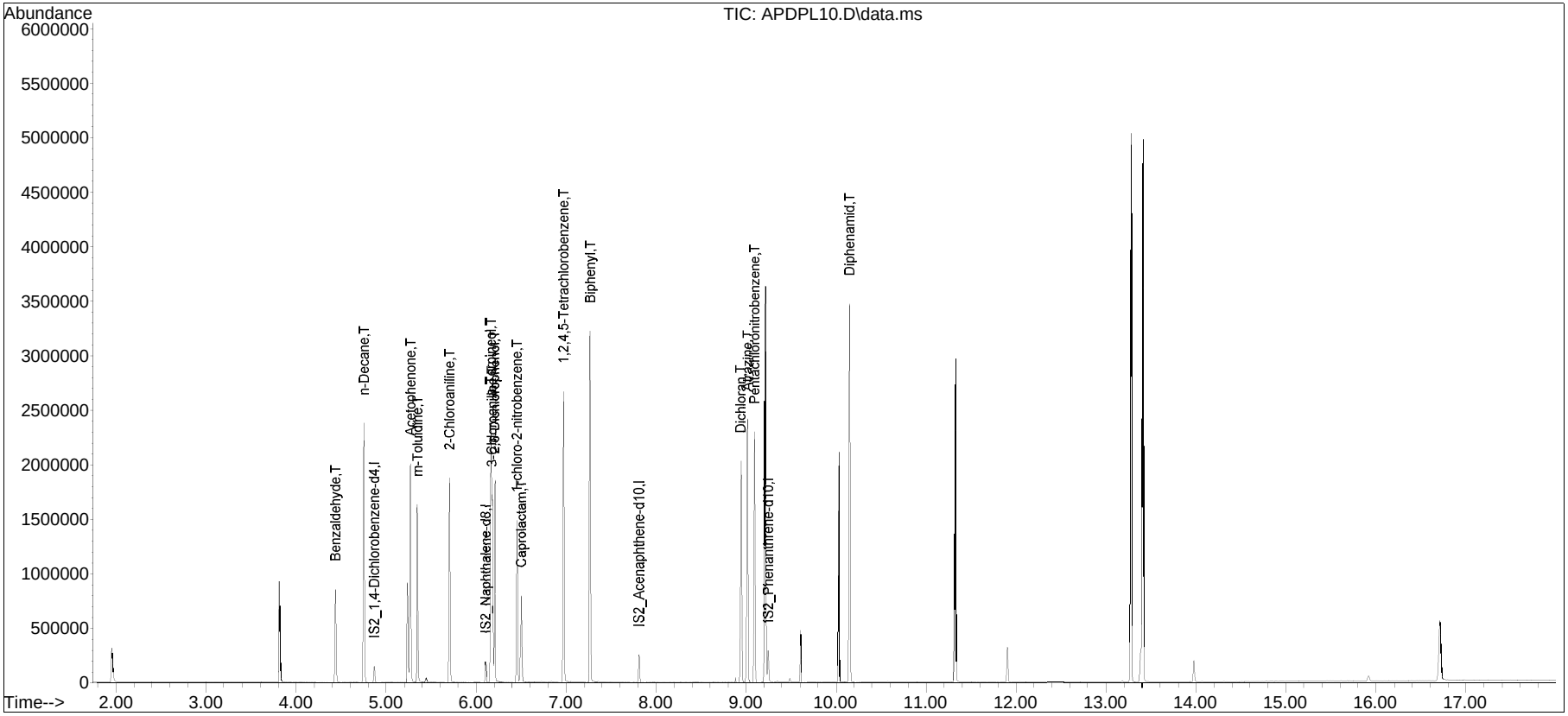
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240228ical\
Data File : APDPL10.D
Acq On : 29 Feb 2024 12:37 am
Operator : Dakota:ljg
Sample : IL11,32,,APDPL50 Lot# 10487
Misc : WG1890771,,
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Feb 29 09:45:41 2024
Quant Method : I:\8270\Dakota\240228ical\FS240228LVIDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Feb 29 08:54:57 2024
Response via : Initial Calibration

Sub List : AP9ADP_REV1 - Combined adp and ap9 sublist



Manual Integration Report

Data Path	: I:\8270\Dakota\240228ical\	QMethod	: FS240228LVIDakota.m
Data File	: APDPL10.D	Operator	: Dakota:ljg
Date Inj'd	: 2/29/2024 12:37 am	Instrument	: Dakota
Sample	: IL11,32,,APDPL50 Lot# 1048	Quant Date	: 2/29/2024 8:57 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240228ical\
Data File : APDPL9.D
Acq On : 29 Feb 2024 1:00 am
Operator : Dakota:ljg
Sample : IL12,32,,APDPL35 Lot# 10534
Misc : WG1890771,,
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Feb 29 09:50:40 2024
Quant Method : I:\8270\Dakota\240228ical\FS240228LVIDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Feb 29 08:54:57 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\240228ical\APDPL6.D
Sub List : AP9ADP_REV1 - Combined adp and ap9 sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
27) IS2_1,4-Dichlorobenzen...	4.870	152	24798	4.000	ug/ml	0.00
Standard Area 1 = 24107			Recovery =	102.87%		
53) IS2_Naphthalene-d8	6.107	136	86801	4.000	ug/ml	# 0.00
Standard Area 1 = 86634			Recovery =	100.19%		
81) IS2_Acenaphthene-d10	7.813	164	52379	4.000	ug/ml	0.00
Standard Area 1 = 54508			Recovery =	96.09%		
95) IS2_Phenanthrene-d10	9.249	188	115662	4.000	ug/ml	0.00
Standard Area 1 = 119932			Recovery =	96.44%		
System Monitoring Compounds						
Target Compounds						Qvalue
28) Benzaldehyde	4.438	105	101035	34.679	ug/ml	95
29) Acetophenone	5.268	105	353479	32.616	ug/ml#	82
30) m-Toluidine	5.348	106	260982	33.783	ug/ml	95
31) 2-Chloroaniline	5.709	127	306236	33.004	ug/ml	94
32) n-Decane	4.755	57	289385	34.537	ug/ml#	32
54) a-Terpineol	6.160	59	226216	33.920	ug/ml	90
55) 3-Chloroaniline	6.175	65	100293	34.612	ug/ml	84
56) 2,6-Dichlorophenol	6.203	162	236871	33.592	ug/ml#	84
57) 1-chloro-2-nitrobenzene	6.458	111	97226	34.461	ug/ml#	1
58) Caprolactam	6.501	55	128523	35.842	ug/ml#	86
59) 1,2,4,5-Tetrachloroben...	6.977	216	319472	32.775	ug/ml#	96
60) Biphenyl	7.269	154	636318	32.157	ug/ml	99
82) Dichloran	8.944	206	96405	40.200	ug/ml#	58
83) Pentachloronitrobenzene	9.097	237	94599	36.479	ug/ml#	74
84) Atrazine	9.013	200	189359	35.762	ug/ml	92
96) Diphenamid	10.150	167	487179	36.808	ug/ml#	79
98) n-Octadecane	9.212	57	416188	No Calib #		
99) Parathion	10.029	109	106991	No Calib		
100) 3,3'-Dimethylbenzidine	11.325	212	674961	No Calib		

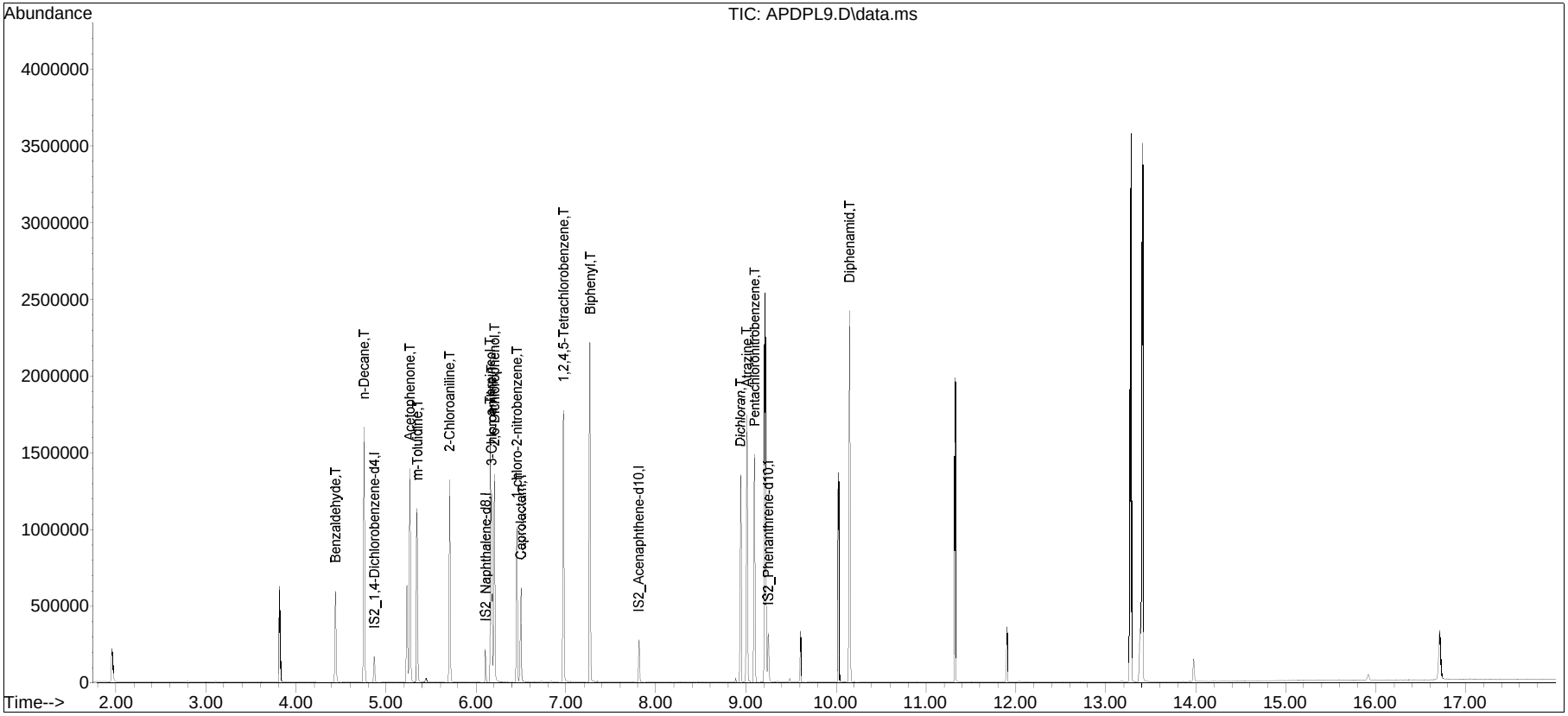
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240228ical\
Data File : APDPL9.D
Acq On : 29 Feb 2024 1:00 am
Operator : Dakota:ljg
Sample : IL12,32,,APDPL35 Lot# 10534
Misc : WG1890771,,
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Feb 29 09:50:40 2024
Quant Method : I:\8270\Dakota\240228ical\FS240228LVIDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Feb 29 08:54:57 2024
Response via : Initial Calibration

Sub List : AP9ADP_REV1 - Combined adp and ap9 sublist



Manual Integration Report

Data Path	: I:\8270\Dakota\240228ical\	QMethod	: FS240228LVIDakota.m
Data File	: APDPL9.D	Operator	: Dakota:ljg
Date Inj'd	: 2/29/2024 1:00 am	Instrument	: Dakota
Sample	: IL12,32,,APDPL35 Lot# 1053	Quant Date	: 2/29/2024 8:58 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240228ical\
Data File : APDPL8.D
Acq On : 29 Feb 2024 1:23 am
Operator : Dakota:ljg
Sample : IL13,32,,APDPL15 Lot# 10535
Misc : WG1890771,,
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Feb 29 09:50:07 2024
Quant Method : I:\8270\Dakota\240228ical\FS240228LVIDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Feb 29 08:54:57 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\240228ical\APDPL6.D
Sub List : AP9ADP_REV1 - Combined adp and ap9 sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
27) IS2_1,4-Dichlorobenzen...	4.870	152	24485	4.000	ug/ml	0.00
Standard Area 1 = 24107			Recovery =	101.57%		
53) IS2_Naphthalene-d8	6.107	136	85145	4.000	ug/ml	# 0.00
Standard Area 1 = 86634			Recovery =	98.28%		
81) IS2_Acenaphthene-d10	7.813	164	55244	4.000	ug/ml	0.00
Standard Area 1 = 54508			Recovery =	101.35%		
95) IS2_Phenanthrene-d10	9.249	188	119946	4.000	ug/ml	0.00
Standard Area 1 = 119932			Recovery =	100.01%		
System Monitoring Compounds						
Target Compounds						Qvalue
28) Benzaldehyde	4.438	105	44899	15.608	ug/ml	94
29) Acetophenone	5.268	105	158730	14.833	ug/ml#	82
30) m-Toluidine	5.349	106	113231	14.844	ug/ml	95
31) 2-Chloroaniline	5.709	127	137321	14.989	ug/ml#	93
32) n-Decane	4.755	57	124232	15.016	ug/ml#	30
54) a-Terpineol	6.160	59	100228	15.321	ug/ml	90
55) 3-Chloroaniline	6.175	65	43808	15.413	ug/ml	89
56) 2,6-Dichlorophenol	6.203	162	106666	15.421	ug/ml#	84
57) 1-chloro-2-nitrobenzene	6.458	111	43645	15.770	ug/ml#	1
58) Caprolactam	6.492	55	57558	16.364	ug/ml#	88
59) 1,2,4,5-Tetrachloroben...	6.974	216	142318	14.884	ug/ml#	95
60) Biphenyl	7.266	154	286779	14.775	ug/ml	99
82) Dichloran	8.942	206	39989	15.810	ug/ml#	59
83) Pentachloronitrobenzene	9.094	237	41582	15.203	ug/ml#	75
84) Atrazine	9.010	200	83326	14.921	ug/ml	93
96) Diphenamid	10.148	167	218777	15.939	ug/ml#	80
98) n-Octadecane	9.212	57	189817	No Calib #		
99) Parathion	10.026	109	42671	No Calib		
100) 3,3'-Dimethylbenzidine	11.322	212	284330	No Calib		

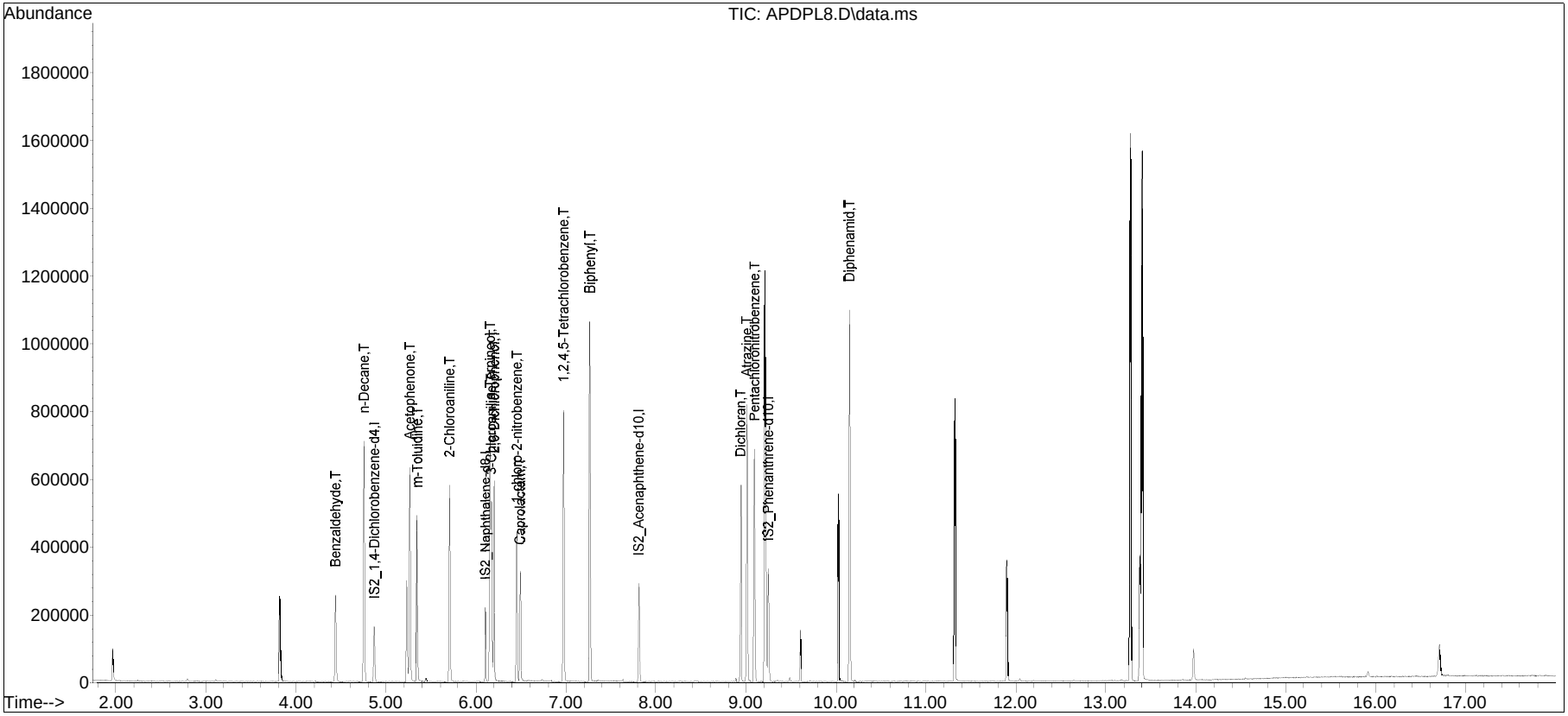
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240228ical\
Data File : APDPL8.D
Acq On : 29 Feb 2024 1:23 am
Operator : Dakota:ljg
Sample : IL13,32,,APDPL15 Lot# 10535
Misc : WG1890771,,
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Feb 29 09:50:07 2024
Quant Method : I:\8270\Dakota\240228ical\FS240228LVIDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Feb 29 08:54:57 2024
Response via : Initial Calibration

Sub List : AP9ADP_REV1 - Combined adp and ap9 sublist



Manual Integration Report

Data Path	: I:\8270\Dakota\240228ical\	QMethod	: FS240228LVIDakota.m
Data File	: APDPL8.D	Operator	: Dakota:ljg
Date Inj'd	: 2/29/2024 1:23 am	Instrument	: Dakota
Sample	: IL13,32,,APDPL15 Lot# 1053	Quant Date	: 2/29/2024 8:57 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240228ical\
Data File : APDPL7.D
Acq On : 29 Feb 2024 1:45 am
Operator : Dakota:ljg
Sample : IL14,32,,APDPL10 Lot# 10536
Misc : WG1890771,,
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Feb 29 09:49:26 2024
Quant Method : I:\8270\Dakota\240228ical\FS240228LVIDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Feb 29 08:54:57 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\240228ical\APDPL6.D
Sub List : AP9ADP_REV1 - Combined adp and ap9 sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
27) IS2_1,4-Dichlorobenzen...	4.870	152	22532	4.000	ug/ml	0.00
Standard Area 1 = 24107			Recovery =	93.47%		
53) IS2_Naphthalene-d8	6.107	136	79190	4.000	ug/ml	# 0.00
Standard Area 1 = 86634			Recovery =	91.41%		
81) IS2_Acenaphthene-d10	7.813	164	49445	4.000	ug/ml	0.00
Standard Area 1 = 54508			Recovery =	90.71%		
95) IS2_Phenanthrene-d10	9.249	188	112428	4.000	ug/ml	0.00
Standard Area 1 = 119932			Recovery =	93.74%		
System Monitoring Compounds						
Target Compounds						Qvalue
28) Benzaldehyde	4.438	105	26472	10.000	ug/ml	97
29) Acetophenone	5.268	105	98483	10.001	ug/ml#	82
30) m-Toluidine	5.348	106	71035	10.120	ug/ml	93
31) 2-Chloroaniline	5.709	127	84308	10.000	ug/ml#	92
32) n-Decane	4.755	57	76118	9.998	ug/ml#	31
54) a-Terpineol	6.160	59	60957	10.019	ug/ml	91
55) 3-Chloroaniline	6.175	65	26485	10.019	ug/ml	88
56) 2,6-Dichlorophenol	6.200	162	64452	10.019	ug/ml#	85
57) 1-chloro-2-nitrobenzene	6.458	111	25788	10.019	ug/ml#	1
58) Caprolactam	6.492	55	32776	10.019	ug/ml#	83
59) 1,2,4,5-Tetrachloroben...	6.974	216	88579	9.961	ug/ml#	96
60) Biphenyl	7.266	154	180865	10.019	ug/ml	100
82) Dichloran	8.941	206	22638	10.000	ug/ml#	58
83) Pentachloronitrobenzene	9.094	237	24480	10.000	ug/ml#	76
84) Atrazine	9.010	200	49984	10.000	ug/ml	93
96) Diphenamid	10.147	167	128657	10.000	ug/ml#	79
98) n-Octadecane	9.212	57	113989	No Calib #		
99) Parathion	10.026	109	23713	No Calib		
100) 3,3'-Dimethylbenzidine	11.322	212	157763	No Calib		

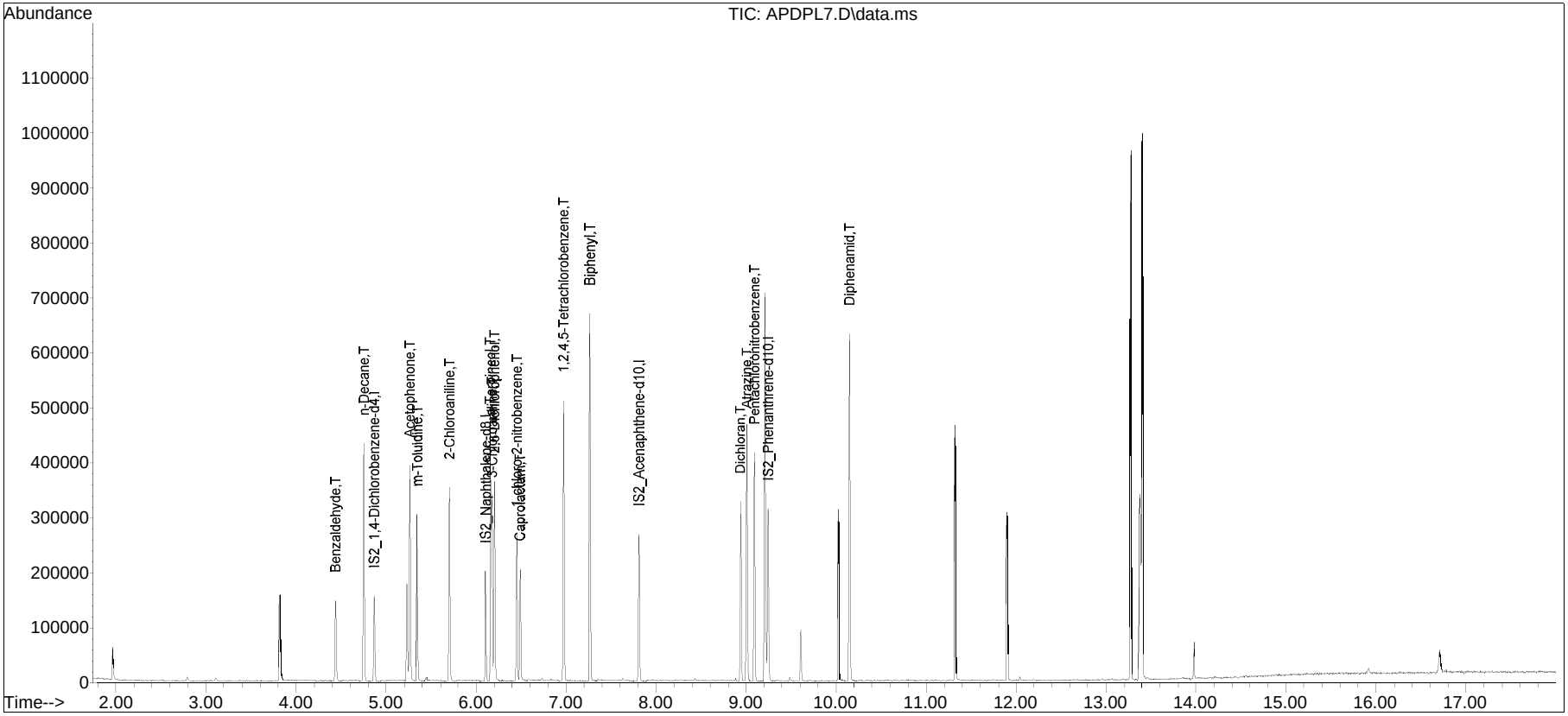
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240228ical\
Data File : APDPL7.D
Acq On : 29 Feb 2024 1:45 am
Operator : Dakota:ljg
Sample : IL14,32,,APDPL10 Lot# 10536
Misc : WG1890771,,
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Feb 29 09:49:26 2024
Quant Method : I:\8270\Dakota\240228ical\FS240228LVIDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Feb 29 08:54:57 2024
Response via : Initial Calibration

Sub List : AP9ADP_REV1 - Combined adp and ap9 sublist



Manual Integration Report

Data Path	: I:\8270\Dakota\240228ical\	QMethod	: FS240228LVIDakota.m
Data File	: APDPL7.D	Operator	: Dakota:ljg
Date Inj'd	: 2/29/2024 1:45 am	Instrument	: Dakota
Sample	: IL14,32,,APDPL10 Lot# 1053	Quant Date	: 2/29/2024 8:57 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240228ical\
Data File : APDPL6.D
Acq On : 29 Feb 2024 2:08 am
Operator : Dakota:ljg
Sample : IL15,32,,APDPL5 Lot# 10537
Misc : WG1890771,,
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Feb 29 09:48:48 2024
Quant Method : I:\8270\Dakota\240228ical\FS240228LVIDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Feb 29 08:54:57 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\240228ical\APDPL6.D
Sub List : AP9ADP_REV1 - Combined adp and ap9 sublist

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
27) IS2_1,4-Dichlorobenzen...	4.873	152	24107	4.000	ug/ml		0.00
Standard Area 1 = 24107			Recovery =	100.00%			
53) IS2_Naphthalene-d8	6.107	136	86634	4.000	ug/ml	#	0.00
Standard Area 1 = 86634			Recovery =	100.00%			
81) IS2_Acenaphthene-d10	7.813	164	54508	4.000	ug/ml		0.00
Standard Area 1 = 54508			Recovery =	100.00%			
95) IS2_Phenanthrene-d10	9.249	188	119932	4.000	ug/ml		0.00
Standard Area 1 = 119932			Recovery =	100.00%			
System Monitoring Compounds							
Target Compounds							Qvalue
28) Benzaldehyde	4.441	105	14306	5.051	ug/ml		93
29) Acetophenone	5.268	105	50551	4.798	ug/ml	#	83
30) m-Toluidine	5.348	106	37650	5.013	ug/ml		93
31) 2-Chloroaniline	5.709	127	43800	4.856	ug/ml		94
32) n-Decane	4.755	57	41393	5.082	ug/ml	#	32
54) a-Terpineol	6.160	59	31698	4.762	ug/ml		91
55) 3-Chloroaniline	6.175	65	14023	4.849	ug/ml		87
56) 2,6-Dichlorophenol	6.200	162	34392	4.887	ug/ml	#	84
57) 1-chloro-2-nitrobenzene	6.458	111	14337	5.091	ug/ml	#	1
58) Caprolactam	6.489	55	16275	4.547	ug/ml	#	83
59) 1,2,4,5-Tetrachloroben...	6.974	216	46962	4.827	ug/ml	#	95
60) Biphenyl	7.266	154	97453	4.934	ug/ml		99
82) Dichloran	8.941	206	10633	4.261	ug/ml	#	64
83) Pentachloronitrobenzene	9.094	237	12803	4.744	ug/ml	#	71
84) Atrazine	9.007	200	26078	4.733	ug/ml		91
96) Diphenamid	10.147	167	67160	4.893	ug/ml	#	81
98) n-Octadecane	9.212	57	61711	No Calib	#		
99) Parathion	10.026	109	11071	No Calib			
100) 3,3'-Dimethylbenzidine	11.322	212	72447	No Calib			

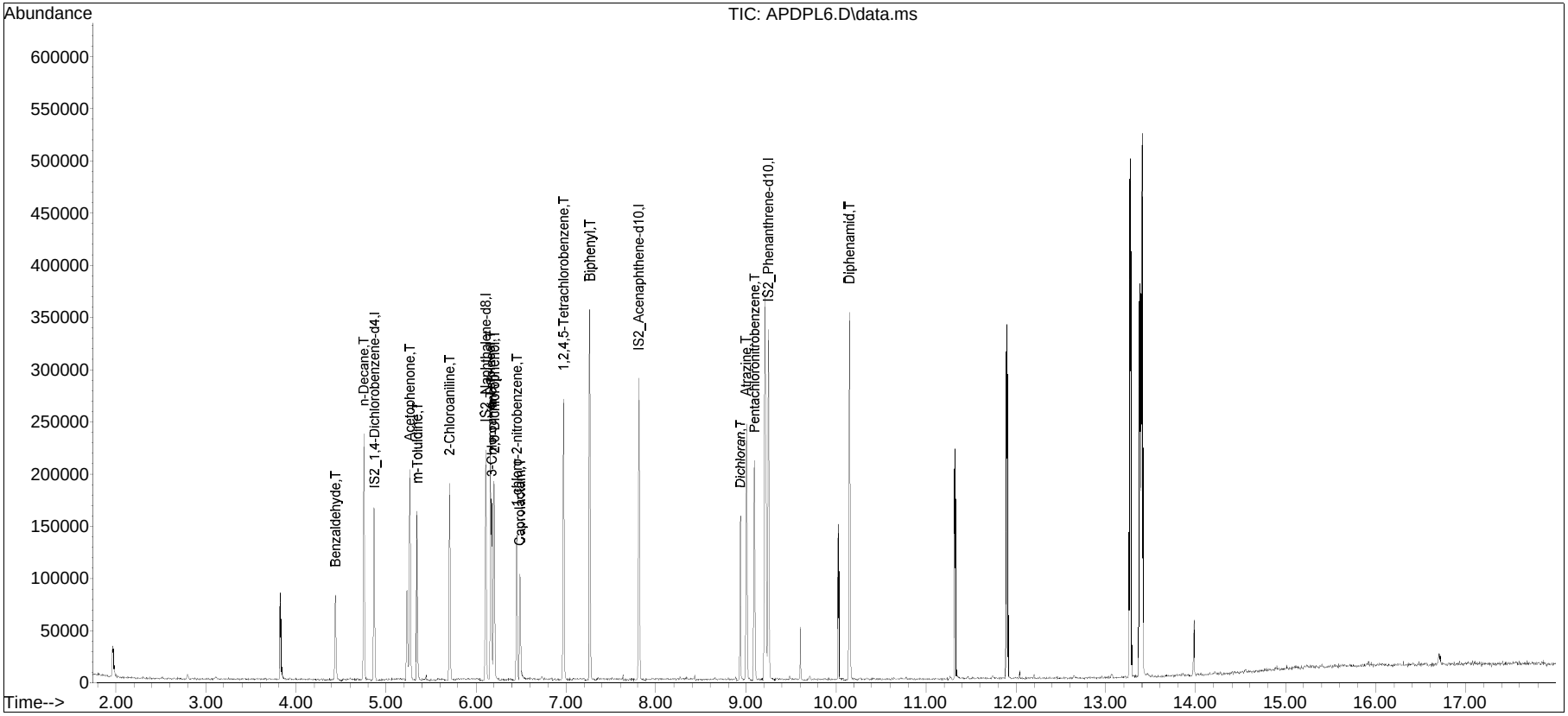
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240228ical\
Data File : APDPL6.D
Acq On : 29 Feb 2024 2:08 am
Operator : Dakota:ljg
Sample : IL15,32,,APDPL5 Lot# 10537
Misc : WG1890771,,
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Feb 29 09:48:48 2024
Quant Method : I:\8270\Dakota\240228ical\FS240228LVIDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Feb 29 08:54:57 2024
Response via : Initial Calibration

Sub List : AP9ADP_REV1 - Combined adp and ap9 sublist



Manual Integration Report

Data Path	: I:\8270\Dakota\240228ical\	QMethod	: FS240228LVIDakota.m
Data File	: APDPL6.D	Operator	: Dakota:ljg
Date Inj'd	: 2/29/2024 2:08 am	Instrument	: Dakota
Sample	: IL15,32,,APDPL5 Lot# 10537	Quant Date	: 2/29/2024 8:57 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240228ical\
Data File : APDPL5.D
Acq On : 29 Feb 2024 2:30 am
Operator : Dakota:ljg
Sample : IL16,32,,APDPL3 Lot# 10538
Misc : WG1890771,,
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Feb 29 09:48:20 2024
Quant Method : I:\8270\Dakota\240228ical\FS240228LVIDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Feb 29 08:54:57 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\240228ical\APDPL6.D
Sub List : AP9ADP_REV1 - Combined adp and ap9 sublist

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
	Internal Standards							
27)	IS2_1,4-Dichlorobenzen...	4.870	152	23900	4.000	ug/ml		0.00
	Standard Area 1 = 24107			Recovery =	99.14%			
53)	IS2_Naphthalene-d8	6.107	136	86274	4.000	ug/ml	#	0.00
	Standard Area 1 = 86634			Recovery =	99.58%			
81)	IS2_Acenaphthene-d10	7.813	164	54685	4.000	ug/ml		0.00
	Standard Area 1 = 54508			Recovery =	100.32%			
95)	IS2_Phenanthrene-d10	9.249	188	119688	4.000	ug/ml		0.00
	Standard Area 1 = 119932			Recovery =	99.80%			
	System Monitoring Compounds							
	Target Compounds							Qvalue
28)	Benzaldehyde	4.441	105	8943	3.185	ug/ml		95
29)	Acetophenone	5.268	105	30014	2.873	ug/ml	#	84
30)	m-Toluidine	5.349	106	21362	2.869	ug/ml		96
31)	2-Chloroaniline	5.709	127	26839	3.001	ug/ml		94
32)	n-Decane	4.755	57	26160	3.239	ug/ml	#	33
54)	a-Terpineol	6.157	59	18997	2.866	ug/ml	#	86
55)	3-Chloroaniline	6.175	65	9113	3.164	ug/ml		74
56)	2,6-Dichlorophenol	6.200	162	20591	2.938	ug/ml	#	83
57)	1-chloro-2-nitrobenzene	6.458	111	8074	2.879	ug/ml	#	1
58)	Caprolactam	6.492	55	9516	2.670	ug/ml	#	85
59)	1,2,4,5-Tetrachloroben...	6.974	216	28742	2.967	ug/ml	#	94
60)	Biphenyl	7.266	154	57320	2.914	ug/ml		99
82)	Dichloran	8.941	206	6292	2.513	ug/ml	#	62
83)	Pentachloronitrobenzene	9.094	237	7206	2.662	ug/ml	#	76
84)	Atrazine	9.007	200	15364	2.779	ug/ml		90
96)	Diphenamid	10.147	167	38771	2.831	ug/ml	#	79
98)	n-Octadecane	9.212	57	35600	No Calib	#		
99)	Parathion	10.026	109	6386	No Calib			
100)	3,3'-Dimethylbenzidine	11.322	212	41219	No Calib			

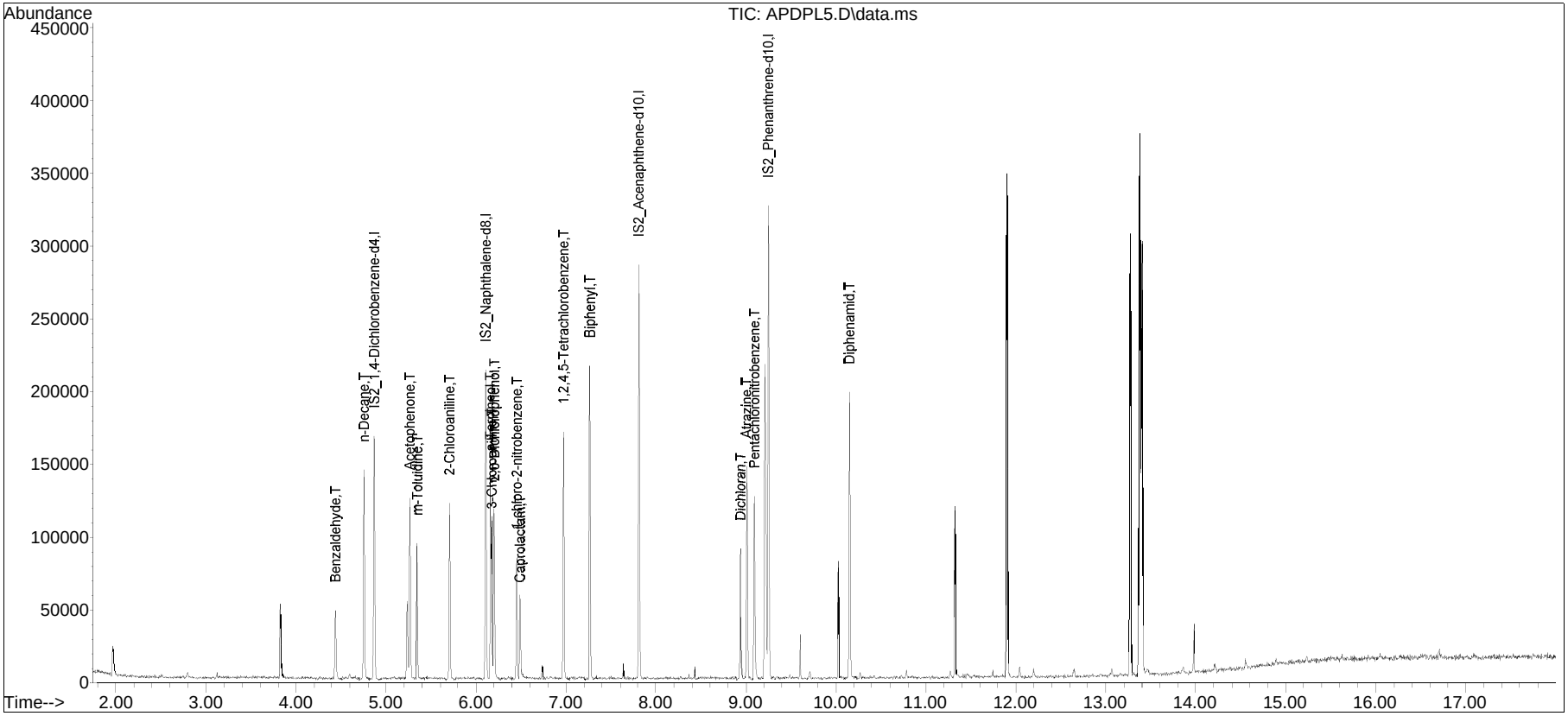
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240228ical\
Data File : APDPL5.D
Acq On : 29 Feb 2024 2:30 am
Operator : Dakota:ljg
Sample : IL16,32,,APDPL3 Lot# 10538
Misc : WG1890771,,
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Feb 29 09:48:20 2024
Quant Method : I:\8270\Dakota\240228ical\FS240228LVIDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Feb 29 08:54:57 2024
Response via : Initial Calibration

Sub List : AP9ADP_REV1 - Combined adp and ap9 sublist



Manual Integration Report

Data Path	: I:\8270\Dakota\240228ical\	QMethod	: FS240228LVIDakota.m
Data File	: APDPL5.D	Operator	: Dakota:ljg
Date Inj'd	: 2/29/2024 2:30 am	Instrument	: Dakota
Sample	: IL16,32,,APDPL3 Lot# 10538	Quant Date	: 2/29/2024 8:57 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240228ical\
Data File : APDPL4.D
Acq On : 29 Feb 2024 2:53 am
Operator : Dakota:ljg
Sample : IL17,32,,APDPL2 Lot# 10539
Misc : WG1890771,,
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Feb 29 09:47:57 2024
Quant Method : I:\8270\Dakota\240228ical\FS240228LVIDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Feb 29 08:54:57 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\240228ical\APDPL6.D
Sub List : AP9ADP_REV1 - Combined adp and ap9 sublist

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
	Internal Standards							
27)	IS2_1,4-Dichlorobenzen...	4.870	152	23974	4.000	ug/ml		0.00
	Standard Area 1 = 24107			Recovery =	99.45%			
53)	IS2_Naphthalene-d8	6.107	136	81514	4.000	ug/ml	#	0.00
	Standard Area 1 = 86634			Recovery =	94.09%			
81)	IS2_Acenaphthene-d10	7.813	164	50997	4.000	ug/ml		0.00
	Standard Area 1 = 54508			Recovery =	93.56%			
95)	IS2_Phenanthrene-d10	9.249	188	116172	4.000	ug/ml		0.00
	Standard Area 1 = 119932			Recovery =	96.86%			
	System Monitoring Compounds							
	Target Compounds							Qvalue
28)	Benzaldehyde	4.441	105	5295	1.880	ug/ml		99
29)	Acetophenone	5.268	105	18491	1.765	ug/ml	#	87
30)	m-Toluidine	5.348	106	13004	1.741	ug/ml		100
31)	2-Chloroaniline	5.709	127	15847	1.767	ug/ml		92
32)	n-Decane	4.755	57	15783	1.948	ug/ml	#	28
54)	a-Terpineol	6.160	59	10926	1.745	ug/ml		87
55)	3-Chloroaniline	6.172	65	5354	1.968	ug/ml		83
56)	2,6-Dichlorophenol	6.200	162	12385	1.870	ug/ml	#	85
57)	1-chloro-2-nitrobenzene	6.458	111	5382	2.031	ug/ml	#	1
58)	Caprolactam	6.489	55	5946	1.766	ug/ml	#	88
59)	1,2,4,5-Tetrachloroben...	6.974	216	17593	1.922	ug/ml	#	97
60)	Biphenyl	7.266	154	36165	1.946	ug/ml		99
82)	Dichloran	8.941	206	3762	1.611	ug/ml	#	58
83)	Pentachloronitrobenzene	9.094	237	4280	1.695	ug/ml	#	77
84)	Atrazine	9.007	200	9210	1.787	ug/ml		93
96)	Diphenamid	10.147	167	23540	1.771	ug/ml	#	79
98)	n-Octadecane	9.209	57	21398	No Calib	#		
99)	Parathion	10.023	109	3785	No Calib			
100)	3,3'-Dimethylbenzidine	11.322	212	23587	No Calib			

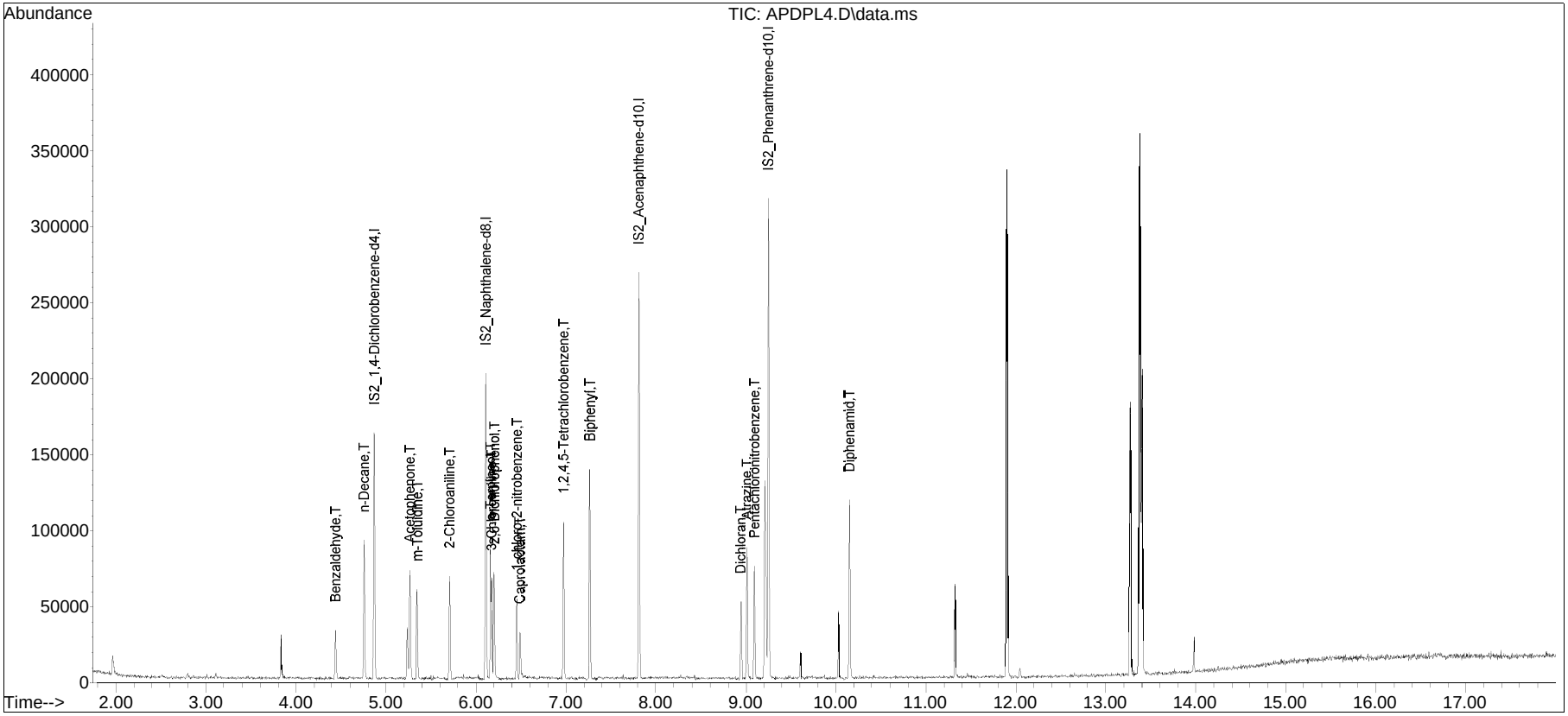
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240228ical\
Data File : APDPL4.D
Acq On : 29 Feb 2024 2:53 am
Operator : Dakota:ljg
Sample : IL17,32,,APDPL2 Lot# 10539
Misc : WG1890771,,
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Feb 29 09:47:57 2024
Quant Method : I:\8270\Dakota\240228ical\FS240228LVIDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Feb 29 08:54:57 2024
Response via : Initial Calibration

Sub List : AP9ADP_REV1 - Combined adp and ap9 sublist



Manual Integration Report

Data Path	: I:\8270\Dakota\240228ical\	QMethod	: FS240228LVIDakota.m
Data File	: APDPL4.D	Operator	: Dakota:ljg
Date Inj'd	: 2/29/2024 2:53 am	Instrument	: Dakota
Sample	: IL17,32,,APDPL2 Lot# 10539	Quant Date	: 2/29/2024 8:57 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240228ical\
Data File : APDPL3.D
Acq On : 29 Feb 2024 3:15 am
Operator : Dakota:ljg
Sample : IL18,32,,APDPL1 Lot# 10540
Misc : WG1890771,,
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Feb 29 09:47:34 2024
Quant Method : I:\8270\Dakota\240228ical\FS240228LVIDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Feb 29 08:54:57 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\240228ical\APDPL6.D
Sub List : AP9ADP_REV1 - Combined adp and ap9 sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
27) IS2_1,4-Dichlorobenzen...	4.873	152	21504	4.000	ug/ml	0.00
Standard Area 1 = 24107			Recovery = 89.20%			
53) IS2_Naphthalene-d8	6.107	136	76796	4.000	ug/ml	# 0.00
Standard Area 1 = 86634			Recovery = 88.64%			
81) IS2_Acenaphthene-d10	7.813	164	48473	4.000	ug/ml	0.00
Standard Area 1 = 54508			Recovery = 88.93%			
95) IS2_Phenanthrene-d10	9.249	188	108934	4.000	ug/ml	0.00
Standard Area 1 = 119932			Recovery = 90.83%			
System Monitoring Compounds						
Target Compounds						Qvalue
28) Benzaldehyde	4.441	105	2500	0.990	ug/ml	99
29) Acetophenone	5.271	105	9064	0.964	ug/ml#	88
30) m-Toluidine	5.348	106	6259	0.934	ug/ml	93
31) 2-Chloroaniline	5.709	127	7844	0.975	ug/ml#	94
32) n-Decane	4.752	57	7378	1.015	ug/ml#	28
54) a-Terpineol	6.160	59	5576	0.945	ug/ml	89
55) 3-Chloroaniline	6.175	65	2637	1.029	ug/ml	74
56) 2,6-Dichlorophenol	6.200	162	5813	0.932	ug/ml#	85
57) 1-chloro-2-nitrobenzene	6.455	111	2325	0.931	ug/ml#	1
58) Caprolactam	6.489	55	2369	0.747	ug/ml#	79
59) 1,2,4,5-Tetrachloroben...	6.974	216	8385	0.972	ug/ml#	97
60) Biphenyl	7.266	154	16704	0.954	ug/ml	96
82) Dichloran	8.941	206	1721	0.775	ug/ml#	67
83) Pentachloronitrobenzene	9.097	237	2055	0.856	ug/ml#	72
84) Atrazine	9.007	200	4275	0.872	ug/ml	93
96) Diphenamid	10.147	167	11189	0.898	ug/ml#	76
98) n-Octadecane	9.209	57	10617	No Calib #		
99) Parathion	10.026	109	1926	No Calib #		
100) 3,3'-Dimethylbenzidine	11.322	212	10028	No Calib		

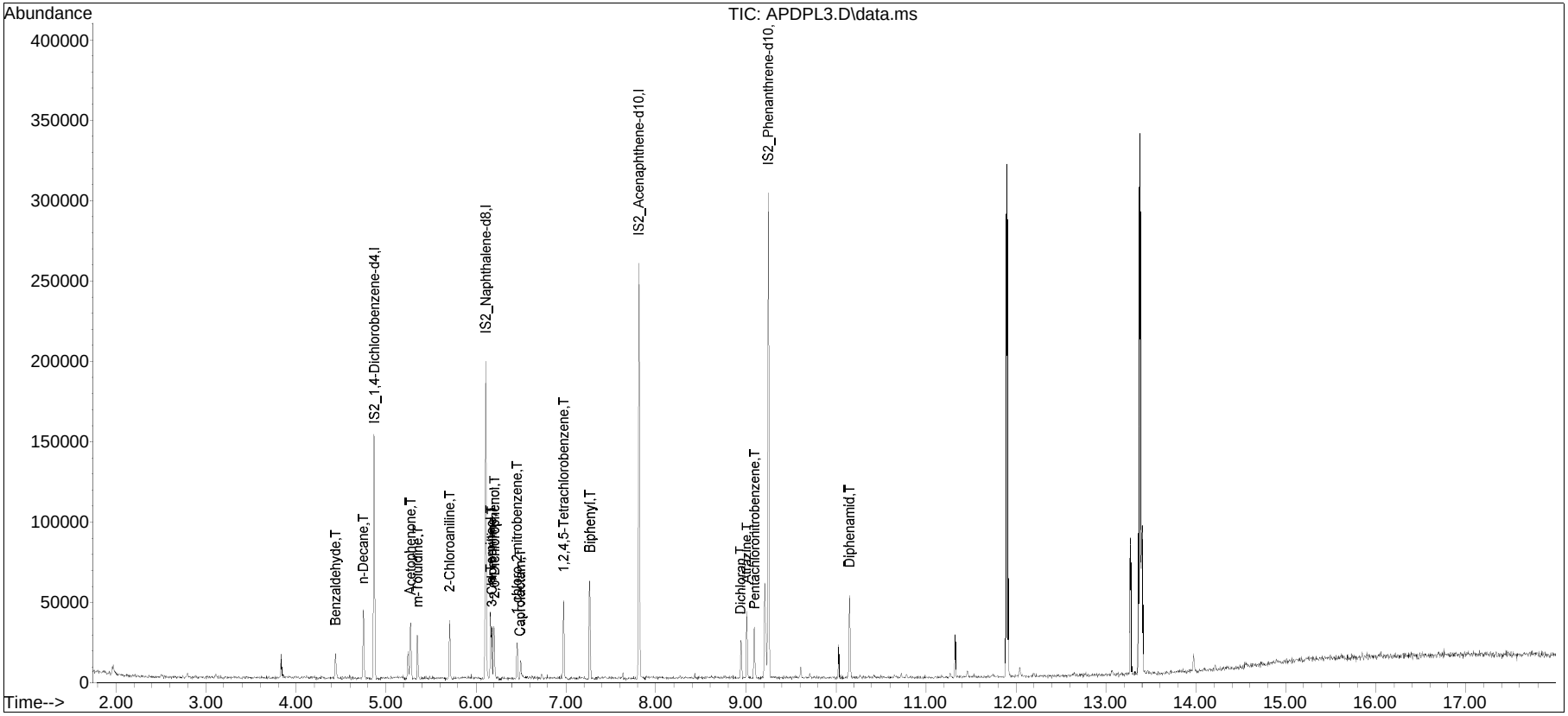
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240228ical\
Data File : APDPL3.D
Acq On : 29 Feb 2024 3:15 am
Operator : Dakota:ljg
Sample : IL18,32,,APDPL1 Lot# 10540
Misc : WG1890771,,
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Feb 29 09:47:34 2024
Quant Method : I:\8270\Dakota\240228ical\FS240228LVIDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Feb 29 08:54:57 2024
Response via : Initial Calibration

Sub List : AP9ADP_REV1 - Combined adp and ap9 sublist



Manual Integration Report

Data Path	: I:\8270\Dakota\240228ical\	QMethod	: FS240228LVIDakota.m
Data File	: APDPL3.D	Operator	: Dakota:ljg
Date Inj'd	: 2/29/2024 3:15 am	Instrument	: Dakota
Sample	: IL18,32,,APDPL1 Lot# 10540	Quant Date	: 2/29/2024 8:57 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240228ical\
Data File : APDPL2.D
Acq On : 29 Feb 2024 3:37 am
Operator : Dakota:ljg
Sample : IL9,32,,APDPL0.4 Lot# 10541
Misc : WG1890771,,
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Feb 29 09:47:00 2024
Quant Method : I:\8270\Dakota\240228ical\FS240228LVIDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Feb 29 08:54:57 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\240228ical\APDPL6.D
Sub List : AP9ADP_REV1 - Combined adp and ap9 sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
27) IS2_1,4-Dichlorobenzen...	4.870	152	26253	4.000	ug/ml	0.00
Standard Area 1 = 24107			Recovery =	108.90%		
53) IS2_Naphthalene-d8	6.107	136	92412	4.000	ug/ml	# 0.00
Standard Area 1 = 86634			Recovery =	106.67%		
81) IS2_Acenaphthene-d10	7.813	164	58929	4.000	ug/ml	0.00
Standard Area 1 = 54508			Recovery =	108.11%		
95) IS2_Phenanthrene-d10	9.249	188	124474	4.000	ug/ml	0.00
Standard Area 1 = 119932			Recovery =	103.79%		
System Monitoring Compounds						
Target Compounds						Qvalue
28) Benzaldehyde	4.444	105	1013	0.328	ug/ml#	77
29) Acetophenone	5.271	105	4467	0.389	ug/ml#	82
30) m-Toluidine	5.352	106	3175	0.388	ug/ml#	86
31) 2-Chloroaniline	5.712	127	3488	0.355	ug/ml	96
32) n-Decane	4.755	57	3898	0.439	ug/ml#	27
54) a-Terpineol	6.160	59	2478	0.349	ug/ml#	83
55) 3-Chloroaniline	6.175	65	1081	0.350	ug/ml	87
56) 2,6-Dichlorophenol	6.200	162	2772	0.369	ug/ml#	87
57) 1-chloro-2-nitrobenzene	6.458	111	1103	0.367	ug/ml#	1
58) Caprolactam	6.502	55	574	0.150	ug/ml#	43
59) 1,2,4,5-Tetrachloroben...	6.974	216	4243	0.409	ug/ml	91
60) Biphenyl	7.266	154	8486	0.403	ug/ml	97
82) Dichloran	8.938	206	703	0.261	ug/ml#	60
83) Pentachloronitrobenzene	9.091	237	1044	0.358	ug/ml#	71
84) Atrazine	9.010	200	1896	0.318	ug/ml	94
96) Diphenamid	10.147	167	5009	0.352	ug/ml#	82
98) n-Octadecane	9.209	57	5015	No Calib #		
99) Parathion	10.023	109	796	No Calib #		
100) 3,3'-Dimethylbenzidine	11.322	212	4209	No Calib #		

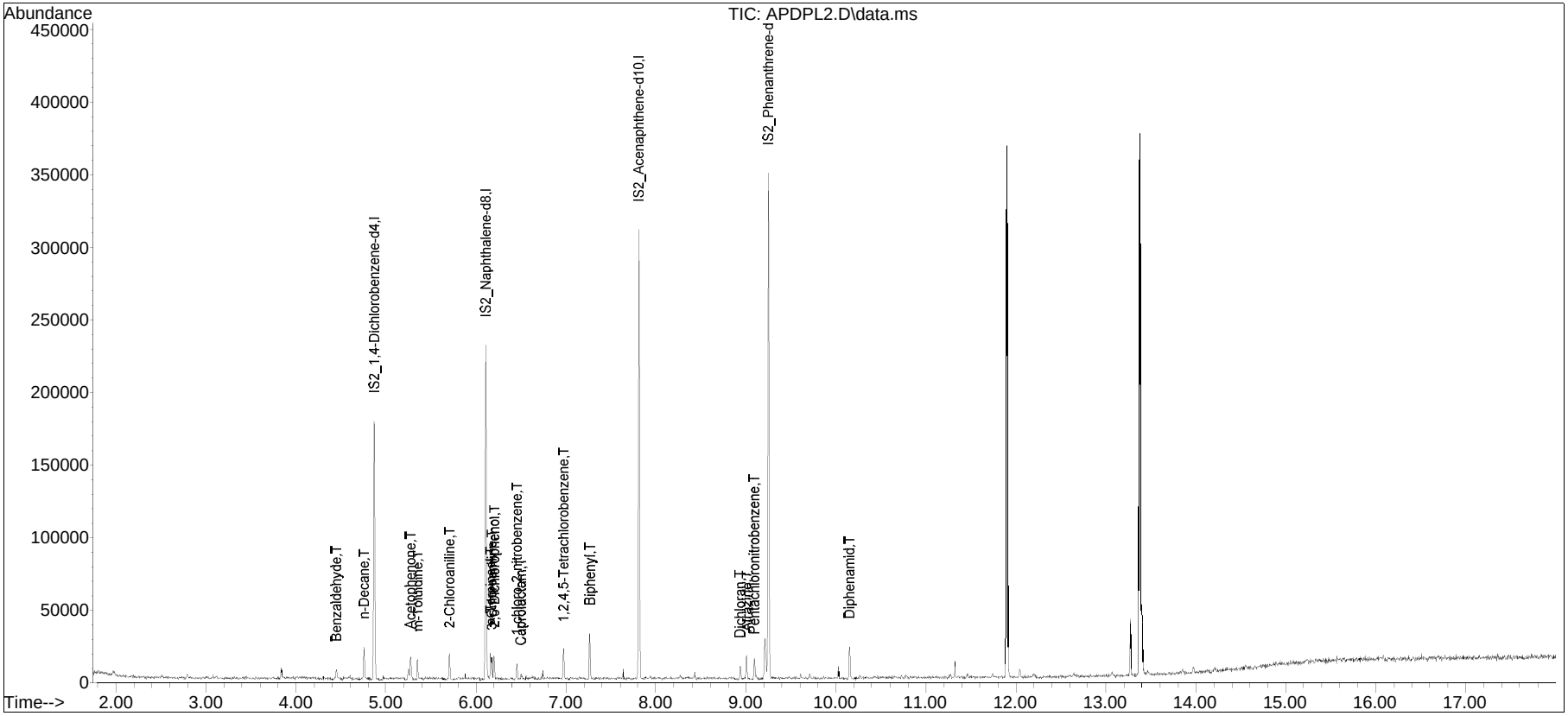
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240228ical\
Data File : APDPL2.D
Acq On : 29 Feb 2024 3:37 am
Operator : Dakota:ljg
Sample : IL9,32,,APDPL0.4 Lot# 10541
Misc : WG1890771,,
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Feb 29 09:47:00 2024
Quant Method : I:\8270\Dakota\240228ical\FS240228LVIDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Feb 29 08:54:57 2024
Response via : Initial Calibration

Sub List : AP9ADP_REV1 - Combined adp and ap9 sublist



Manual Integration Report

Data Path	: I:\8270\Dakota\240228ical\	QMethod	: FS240228LVIDakota.m
Data File	: APDPL2.D	Operator	: Dakota:ljg
Date Inj'd	: 2/29/2024 3:37 am	Instrument	: Dakota
Sample	: IL9,32,,APDPL0.4 Lot# 1054	Quant Date	: 2/29/2024 8:57 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240228ical\
Data File : APDPL1.D
Acq On : 29 Feb 2024 4:00 am
Operator : Dakota:ljg
Sample : IL10,32,,ADPL0.2 Lot# 10542
Misc : WG1890771,,
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Feb 29 09:43:39 2024
Quant Method : I:\8270\Dakota\240228ical\FS240228LVIDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Feb 29 08:54:57 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\240228ical\APDPL6.D
Sub List : AP9ADP_REV1 - Combined adp and ap9 sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
27) IS2_1,4-Dichlorobenzen...	4.873	152	24626	4.000	ug/ml	0.00
Standard Area 1 = 24107			Recovery =	102.15%		
53) IS2_Naphthalene-d8	6.107	136	87658	4.000	ug/ml	# 0.00
Standard Area 1 = 86634			Recovery =	101.18%		
81) IS2_Acenaphthene-d10	7.813	164	54434	4.000	ug/ml	0.00
Standard Area 1 = 54508			Recovery =	99.86%		
95) IS2_Phenanthrene-d10	9.249	188	120150	4.000	ug/ml	0.00
Standard Area 1 = 119932			Recovery =	100.18%		
System Monitoring Compounds						
Target Compounds						Qvalue
28) Benzaldehyde	4.447	105	546	0.189	ug/ml	84
29) Acetophenone	5.274	105	2048	0.190	ug/ml#	69
30) m-Toluidine	5.352	106	1387	0.181	ug/ml#	77
31) 2-Chloroaniline	5.709	127	1514	0.164	ug/ml#	65
32) n-Decane	4.755	57	2003	0.241	ug/ml#	24
54) a-Terpineol	6.163	59	1360	0.202	ug/ml	91
55) 3-Chloroaniline	6.178	65	517	0.177	ug/ml#	63
56) 2,6-Dichlorophenol	6.203	162	1260	0.177	ug/ml#	81
57) 1-chloro-2-nitrobenzene	6.458	111	506	0.178	ug/ml#	1
58) Caprolactam	0.000		0	N.D.		
59) 1,2,4,5-Tetrachloroben...	6.974	216	2058	0.209	ug/ml#	78
60) Biphenyl	7.269	154	3730	0.187	ug/ml	99
82) Dichloran	0.000		0	N.D.		
83) Pentachloronitrobenzene	0.000		0	N.D.		
84) Atrazine	9.007	200	972	0.177	ug/ml#	33
96) Diphenamid	10.144	167	2308	0.168	ug/ml	86
98) n-Octadecane	9.212	57	2265	No Calib #		
99) Parathion	0.000		0	N.D.		
100) 3,3'-Dimethylbenzidine	11.325	212	1830	No Calib #		

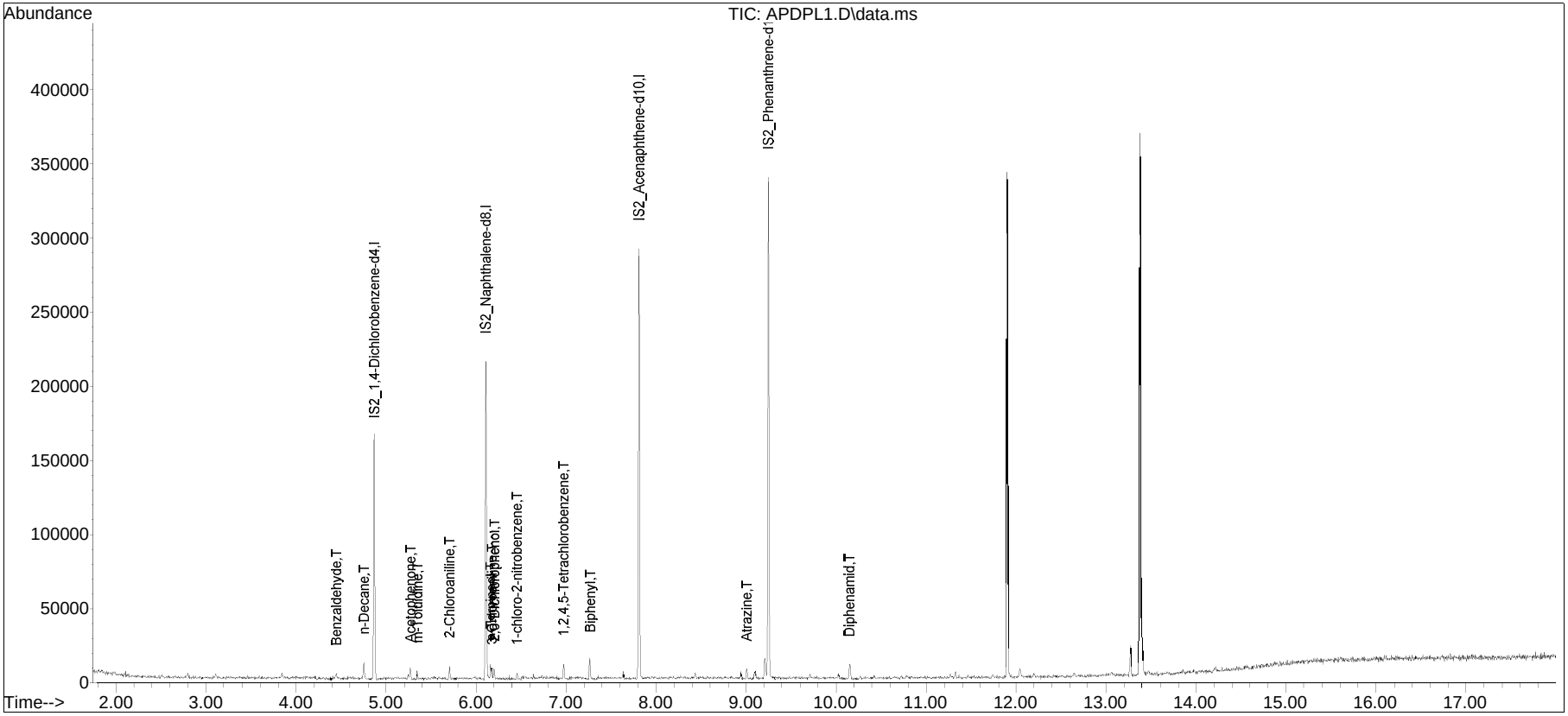
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240228ical\
Data File : APDPL1.D
Acq On : 29 Feb 2024 4:00 am
Operator : Dakota:ljg
Sample : IL10,32,,ADPL0.2 Lot# 10542
Misc : WG1890771,,
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Feb 29 09:43:39 2024
Quant Method : I:\8270\Dakota\240228ical\FS240228LVIDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Feb 29 08:54:57 2024
Response via : Initial Calibration

Sub List : AP9ADP_REV1 - Combined adp and ap9 sublist



Manual Integration Report

Data Path	: I:\8270\Dakota\240228ical\	QMethod	: FS240228LVIDakota.m
Data File	: APDPL1.D	Operator	: Dakota:ljg
Date Inj'd	: 2/29/2024 4:00 am	Instrument	: Dakota
Sample	: IL10,32,,ADPL0.2 Lot# 1054	Quant Date	: 2/29/2024 8:57 am

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

Evaluate Continuing Calibration Report

Data Path : I:\8270\Dakota\240228ical\
Data File : ABNICV.D
Acq On : 29 Feb 2024 4:23 am
Operator : Dakota:ljg
Sample : CQICV1,32,,ABNICV Lot# 10532
Misc : WG1890771,,
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Feb 29 13:54:25 2024
Quant Method : I:\8270\Dakota\240228ical\FS240228LVIDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Feb 29 09:56:18 2024
Response via : Initial Calibration

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

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	IS1_1,4-Dichlorobenzene-d4		1.000	1.000	0.0	95	0.00
2	t	n-Nitrosodimethylamine		0.745	0.696	6.6	90	0.00
3	t	Pyridine		1.122	1.164	-3.7	101	0.00
4	S	2-Fluorophenol		1.071	0.995	7.1	93	0.00
5	T	Aniline		1.612	1.704	-5.7	104	0.00
6	t	2-Chlorophenol		1.171	1.091	6.8	91	0.00
7	S	Phenol-d6		1.383	1.266	8.5	90	0.00
8	T	Phenol		1.528	1.482	3.0	92	0.00
9	T	Bis(2-chloroethyl)ether		1.082	1.067	1.4	99	0.00
10	T	1,3-Dichlorobenzene		1.495	1.416	5.3	92	0.00
11	T	1,4-Dichlorobenzene		1.511	1.409	6.8	92	0.00
12	T	1,2-Dichlorobenzene		1.439	1.387	3.6	95	0.00
13	t	Benzyl alcohol		0.968	0.951	1.8	97	0.00
14	T	Bis(2-chloroisopropyl)ether		2.201	2.138	2.9	94	0.00
15	T	2-Methylphenol		1.041	0.973	6.5	89	0.00
16	T	Hexachloroethane		0.551	0.543	1.5	98	0.00
17	T	n-Nitrosodi-n-propylamine		0.860	0.822	4.4	95	0.00
18	T	3-Methylphenol/4-Methylphen		1.138	1.044	8.3	92	0.00
19	S	Nitrobenzene-d5		1.246	1.150	7.7	90	0.00
20	T	Nitrobenzene		1.226	1.118	8.8	90	0.00
21	T	Isophorone		2.184	2.059	5.7	88	0.00
22	T	2-Nitrophenol		0.574	0.508	11.5	87	0.00
23	T	2,4-Dimethylphenol		0.896	0.997	-11.3	109	0.00
24	T	Bis(2-chloroethoxy)methane		1.404	1.334	5.0	93	0.00
25	T	2,4-Dichlorophenol		1.152	1.098	4.7	89	0.00
26	T	1,2,4-Trichlorobenzene		1.480	1.377	7.0	90	0.00
33	I	IS1_Naphthalene-d8		1.000	1.000	0.0	100	0.00
34	T	Naphthalene		1.012	0.939	7.2	91	0.00
35	T	Benzoic Acid	*	5.000	3.733	25.3#	73	-0.01
36	T	4-Chloroaniline		0.129	0.117	9.3	87	0.00
37	T	Hexachlorobutadiene		0.251	0.238	5.2	91	0.00
38	T	p-Chloro-m-cresol		0.282	0.256	9.2	91	0.00
39	T	2-Methylnaphthalene		0.713	0.670	6.0	96	0.00
40	T	1-Methylnaphthalene		0.228	0.211	7.5	92	0.00
41	T	Hexachlorocyclopentadiene		0.234	0.279	-19.2	121	0.00
42	T	2,4,6-Trichlorophenol		0.277	0.251	9.4	91	0.00
43	T	2,4,5-Trichlorophenol		0.303	0.262	13.5	85	0.00
44	S	2-Fluorobiphenyl		0.897	0.873	2.7	98	0.00

Evaluate Continuing Calibration Report

Data Path : I:\8270\Dakota\240228ical\
Data File : ABNICV.D
Acq On : 29 Feb 2024 4:23 am
Operator : Dakota:ljg
Sample : CQICV1,32,,ABNICV Lot# 10532
Misc : WG1890771,,
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Feb 29 13:54:25 2024
Quant Method : I:\8270\Dakota\240228ical\FS240228LVIDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Feb 29 09:56:18 2024
Response via : Initial Calibration

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

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(min)
45	T	2-Chloronaphthalene		0.760	0.709	6.7	91	0.00
46	T	2-Nitroaniline		0.198	0.164	17.2	81	0.00
47	T	1,4-Dinitrobenzene		0.089	0.076	14.6	83	0.00
48	T	1,3-Dinitrobenzene		0.106	0.086	18.9	84	0.00
49	T	Dimethyl phthalate		0.860	0.804	6.5	93	0.00
50	T	Acenaphthylene		1.151	1.081	6.1	91	0.00
51	T	2,6-Dinitrotoluene		0.168	0.158	6.0	92	0.00
52	T	1,2-Dinitrobenzene		0.067	0.061	9.0	89	0.00
61	I	IS1_Acenaphthene-d10		1.000	1.000	0.0	93	0.00
62	T	3-Nitroaniline		0.285	0.251	11.9	81	0.00
63	T	Acenaphthene		1.021	0.998	2.3	93	0.00
64	T	2,4-Dinitrophenol	*	5.000	3.963	20.7#	80	0.00
65	T	Dibenzofuran		1.765	1.687	4.4	91	0.00
66	T	2,4-Dinitrotoluene	*	5.000	4.269	14.6	84	0.00
67	T	4-Nitrophenol		0.235	0.208	11.5	86	0.00
68	T	2,3,5,6-Tetrachlorophenol		0.414	0.382	7.7	86	0.00
69	T	2,3,4,6-Tetrachlorophenol		0.397	0.376	5.3	87	0.00
70	T	Diethyl phthalate		1.340	1.243	7.2	88	0.00
71	T	Fluorene		1.350	1.296	4.0	91	0.00
72	T	4-Chlorophenyl phenyl ether		0.713	0.706	1.0	95	0.00
73	T	4-Nitroaniline		0.283	0.277	2.1	91	0.00
74	T	4,6-Dinitro-o-cresol	*	5.000	4.008	19.8	79	0.00
75	T	NDPA/DPA		1.118	1.097	1.9	92	0.00
76	T	Azobenzene		1.188	1.137	4.3	91	0.00
77	S	2,4,6-Tribromophenol		0.263	0.237	9.9	87	0.00
78	T	4-Bromophenyl phenyl ether		0.455	0.416	8.6	87	0.00
79	T	Hexachlorobenzene		0.556	0.516	7.2	91	0.00
80	T	Pentachlorophenol		0.370	0.298	19.5	81	0.00
85	I	IS1_Phenanthrene-d10		1.000	1.000	0.0	92	0.00
86	T	Phenanthrene		1.038	0.996	4.0	91	0.00
87	T	Anthracene		1.027	0.990	3.6	91	0.00
88	T	Carbazole		0.968	0.902	6.8	86	0.00
89	T	Di-n-butylphthalate		1.074	1.014	5.6	88	0.00
90	T	Fluoranthene		1.291	1.212	6.1	90	0.00
91	T	Benzidine		0.761	0.708	7.0	84	0.00
92	T	Pyrene		1.359	1.301	4.3	90	0.00
93	S	4-Terphenyl-d14		1.045	1.002	4.1	89	0.00

Evaluate Continuing Calibration Report

Data Path : I:\8270\Dakota\240228ical\
Data File : ABNICV.D
Acq On : 29 Feb 2024 4:23 am
Operator : Dakota:ljg
Sample : CQICV1,32,,ABNICV Lot# 10532
Misc : WG1890771,,
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Feb 29 13:54:25 2024
Quant Method : I:\8270\Dakota\240228ical\FS240228LVIDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Feb 29 09:56:18 2024
Response via : Initial Calibration

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

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(min)
94	T	Butyl benzyl phthalate	*	5.000	4.280	14.4	84	0.00
100	I	IS1_Chrysene-d12		1.000	1.000	0.0	93	0.00
101	T	Benzo(a)anthracene		1.368	1.241	9.3	88	0.00
102	T	3,3'-Dichlorobenzidine		0.514	0.462	10.1	85	0.00
103	T	Chrysene		1.333	1.224	8.2	90	0.00
104	T	Bis(2-ethylhexyl)phthalate	*	5.000	4.358	12.8	89	0.00
105	T	Di-n-octylphthalate	*	5.000	4.179	16.4	86	0.00
106	T	Benzo(b)fluoranthene		1.411	1.357	3.8	92	0.00
107	T	Benzo(k)fluoranthene		1.392	1.283	7.8	88	0.00
108	T	Benzo(a)pyrene		1.302	1.259	3.3	92	0.00
109	I	IS1_Perylene-d12		1.000	1.000	0.0	97	0.00
110	T	Indeno(1,2,3-cd)pyrene		1.256	1.156	8.0	91	0.00
111	T	Dibenzo(a,h)anthracene		1.175	1.133	3.6	92	0.00
112	T	Benzo(ghi)perylene		1.182	1.075	9.1	88	0.00

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240228ical\
Data File : ABNICV.D
Acq On : 29 Feb 2024 4:23 am
Operator : Dakota:ljg
Sample : CQICV1,32,,ABNICV Lot# 10532
Misc : WG1890771,,
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Feb 29 13:54:25 2024
Quant Method : I:\8270\Dakota\240228ical\FS240228LVIDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Feb 29 09:56:18 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\240228ical\ABNL6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	4.873	152	23115	4.000	ug/ml	0.00
Standard Area 1 = 24358			Recovery = 94.90%			
33) IS1_Naphthalene-d8	6.107	136	83380	4.000	ug/ml	# 0.00
Standard Area 1 = 83339			Recovery = 100.05%			
61) IS1_Acenaphthene-d10	7.813	164	51243	4.000	ug/ml	0.00
Standard Area 1 = 55337			Recovery = 92.60%			
85) IS1_Phenanthrene-d10	9.249	188	108896	4.000	ug/ml	0.00
Standard Area 1 = 117827			Recovery = 92.42%			
100) IS1_Chrysene-d12	11.900	240	116183	4.000	ug/ml	0.00
Standard Area 1 = 124719			Recovery = 93.16%			
109) IS1_Perylene-d12	13.374	264	139877	4.000	ug/ml	0.00
Standard Area 1 = 144564			Recovery = 96.76%			
System Monitoring Compounds						
4) 2-Fluorophenol	3.602	112	28741	4.645	ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 92.90%			
7) Phenol-d6	4.540	99	36576	4.575	ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 91.50%			
19) Nitrobenzene-d5	5.411	82	33223	4.613	ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 184.52%#			
44) 2-Fluorobiphenyl	7.176	172	90951	4.866	ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 194.64%#			
77) 2,4,6-Tribromophenol	8.578	330	15179	4.509	ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 90.18%			
93) 4-Terphenyl-d14	10.831	244	136450	4.798	ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 191.92%#			
Target Compounds						Qvalue
2) n-Nitrosodimethylamine	2.240	74	20120	4.673	ug/ml#	84
3) Pyridine	2.287	79	33639	5.186	ug/ml#	62
5) Aniline	4.550	93	49226	5.283	ug/ml#	47
6) 2-Chlorophenol	4.665	128	31534	4.661	ug/ml	93
8) Phenol	4.553	94	42831	4.851	ug/ml#	46
9) Bis(2-chloroethyl)ether	4.631	93	30843	4.932	ug/ml	99
10) 1,3-Dichlorobenzene	4.814	146	40915	4.737	ug/ml	94
11) 1,4-Dichlorobenzene	4.885	146	40724	4.663	ug/ml	96
12) 1,2-Dichlorobenzene	5.035	146	40083	4.821	ug/ml	93
13) Benzyl alcohol	5.016	79	27492	4.914	ug/ml	93
14) Bis(2-chloroisopropyl)...	5.159	45	61771	4.856	ug/ml#	85

Data Path : I:\8270\Dakota\240228ical\
Data File : ABNICV.D
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Operator : Dakota:ljg
Sample : CQICV1,32,,ABNICV Lot# 10532
Misc : WG1890771,,
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Feb 29 13:54:25 2024
Quant Method : I:\8270\Dakota\240228ical\FS240228LVIDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Feb 29 09:56:18 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\240228ical\ABNL6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
15) 2-Methylphenol	5.140	108	28124	4.674	ug/ml	99
16) Hexachloroethane	5.361	117	15678	4.925	ug/ml#	52
17) n-Nitrosodi-n-propylamine	5.283	70	23759	4.778	ug/ml#	87
18) 3-Methylphenol/4-Methy...	5.296	108	30175	4.590	ug/ml	93
20) Nitrobenzene	5.429	77	32296	4.557	ug/ml	98
21) Isophorone	5.669	82	59492	4.714	ug/ml#	93
22) 2-Nitrophenol	5.743	139	14684	4.428	ug/ml	93
23) 2,4-Dimethylphenol	5.809	107	28814	5.567	ug/ml	100
24) Bis(2-chloroethoxy)met...	5.899	93	38556	4.753	ug/ml#	96
25) 2,4-Dichlorophenol	5.980	162	31735	4.769	ug/ml#	93
26) 1,2,4-Trichlorobenzene	6.060	180	39791	4.653	ug/ml	96
34) Naphthalene	6.126	128	97871	4.638	ug/ml	98
35) Benzoic Acid	5.871	105	12847M1	3.733	ug/ml	
36) 4-Chloroaniline	6.194	65	12191	4.523	ug/ml	83
37) Hexachlorobutadiene	6.275	225	24758	4.724	ug/ml	98
38) p-Chloro-m-cresol	6.685	107	26687	4.533	ug/ml	94
39) 2-Methylnaphthalene	6.806	142	69855	4.701	ug/ml	97
40) 1-Methylnaphthalene	6.900	115	21985	4.632	ug/ml	95
41) Hexachlorocyclopentadiene	6.977	237	29112	5.958	ug/ml	99
42) 2,4,6-Trichlorophenol	7.089	196	26169	4.531	ug/ml	99
43) 2,4,5-Trichlorophenol	7.120	196	27351	4.328	ug/ml	98
45) 2-Chloronaphthalene	7.276	162	73873	4.662	ug/ml#	92
46) 2-Nitroaniline	7.381	138	17114	4.151	ug/ml	89
47) 1,4-Dinitrobenzene	7.509	168	7960	4.289	ug/ml	79
48) 1,3-Dinitrobenzene	7.586	168	8997	4.062	ug/ml#	1
49) Dimethyl phthalate	7.577	163	83779	4.676	ug/ml#	98
50) Acenaphthylene	7.673	152	112618	4.695	ug/ml	99
51) 2,6-Dinitrotoluene	7.621	165	16479	4.699	ug/ml#	76
52) 1,2-Dinitrobenzene	7.667	168	6386	4.552	ug/ml#	1
62) 3-Nitroaniline	7.779	138	16068	4.399	ug/ml	96
63) Acenaphthene	7.844	154	63939	4.889	ug/ml	89
64) 2,4-Dinitrophenol	7.879	184	7373M4	3.963	ug/ml	
65) Dibenzofuran	8.015	168	108070	4.779	ug/ml	89
66) 2,4-Dinitrotoluene	8.012	165	20646	4.269	ug/ml	94
67) 4-Nitrophenol	7.959	65	13327	4.421	ug/ml	92
68) 2,3,5,6-Tetrachlorophenol	8.102	232	24473	4.612	ug/ml	98
69) 2,3,4,6-Tetrachlorophenol	8.143	232	24094	4.740	ug/ml	99
70) Diethyl phthalate	8.267	149	79637	4.641	ug/ml	98
71) Fluorene	8.345	166	83025	4.799	ug/ml	92
72) 4-Chlorophenyl phenyl ...	8.360	204	45249	4.951	ug/ml#	84

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240228ical\
Data File : ABNICV.D
Acq On : 29 Feb 2024 4:23 am
Operator : Dakota:ljg
Sample : CQICV1,32,,ABNICV Lot# 10532
Misc : WG1890771,,
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Feb 29 13:54:25 2024
Quant Method : I:\8270\Dakota\240228ical\FS240228LVIDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Feb 29 09:56:18 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\240228ical\ABNL6.D
Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
73)	4-Nitroaniline	8.367	138	17767	4.909	ug/ml	84
74)	4,6-Dinitro-o-cresol	8.404	198	10740	4.008	ug/ml#	69
75)	NDPA/DPA	8.475	169	70292	4.909	ug/ml	94
76)	Azobenzene	8.513	77	72843	4.785	ug/ml	99
78)	4-Bromophenyl phenyl e...	8.833	248	26625	4.566	ug/ml#	79
79)	Hexachlorobenzene	8.886	284	33028	4.634	ug/ml#	78
80)	Pentachlorophenol	9.078	266	19118	4.031	ug/ml	94
86)	Phenanthrene	9.271	178	135636	4.799	ug/ml	100
87)	Anthracene	9.321	178	134794	4.820	ug/ml	99
88)	Carbazole	9.485	167	122834	4.659	ug/ml	99
89)	Di-n-butylphthalate	9.865	149	138047	4.720	ug/ml#	98
90)	Fluoranthene	10.427	202	164934	4.694	ug/ml#	91
91)	Benzidine	10.576	184	96316	4.652	ug/ml#	94
92)	Pyrene	10.648	202	177147	4.787	ug/ml	99
94)	Butyl benzyl phthalate	11.357	149	58536	4.280	ug/ml	86
101)	Benzo(a)anthracene	11.891	228	180277	4.537	ug/ml	99
102)	3,3'-Dichlorobenzidine	11.888	252	67150	4.497	ug/ml#	95
103)	Chrysene	11.928	228	177792	4.590	ug/ml	100
104)	Bis(2-ethylhexyl)phtha...	11.994	149	95015	4.358	ug/ml#	91
105)	Di-n-octylphthalate	12.674	149	152332	4.179	ug/ml#	78
106)	Benzo(b)fluoranthene	13.004	252	197025	4.807	ug/ml#	92
107)	Benzo(k)fluoranthene	13.032	252	186268	4.606	ug/ml#	92
108)	Benzo(a)pyrene	13.321	252	182862	4.836	ug/ml#	91
110)	Indeno(1,2,3-cd)pyrene	14.337	276	202055M6	4.599	ug/mL	
111)	Dibenzo(a,h)anthracene	14.356	278	198016	4.821	ug/ml#	87
112)	Benzo(ghi)perylene	14.555	276	188045	4.550	ug/ml#	85

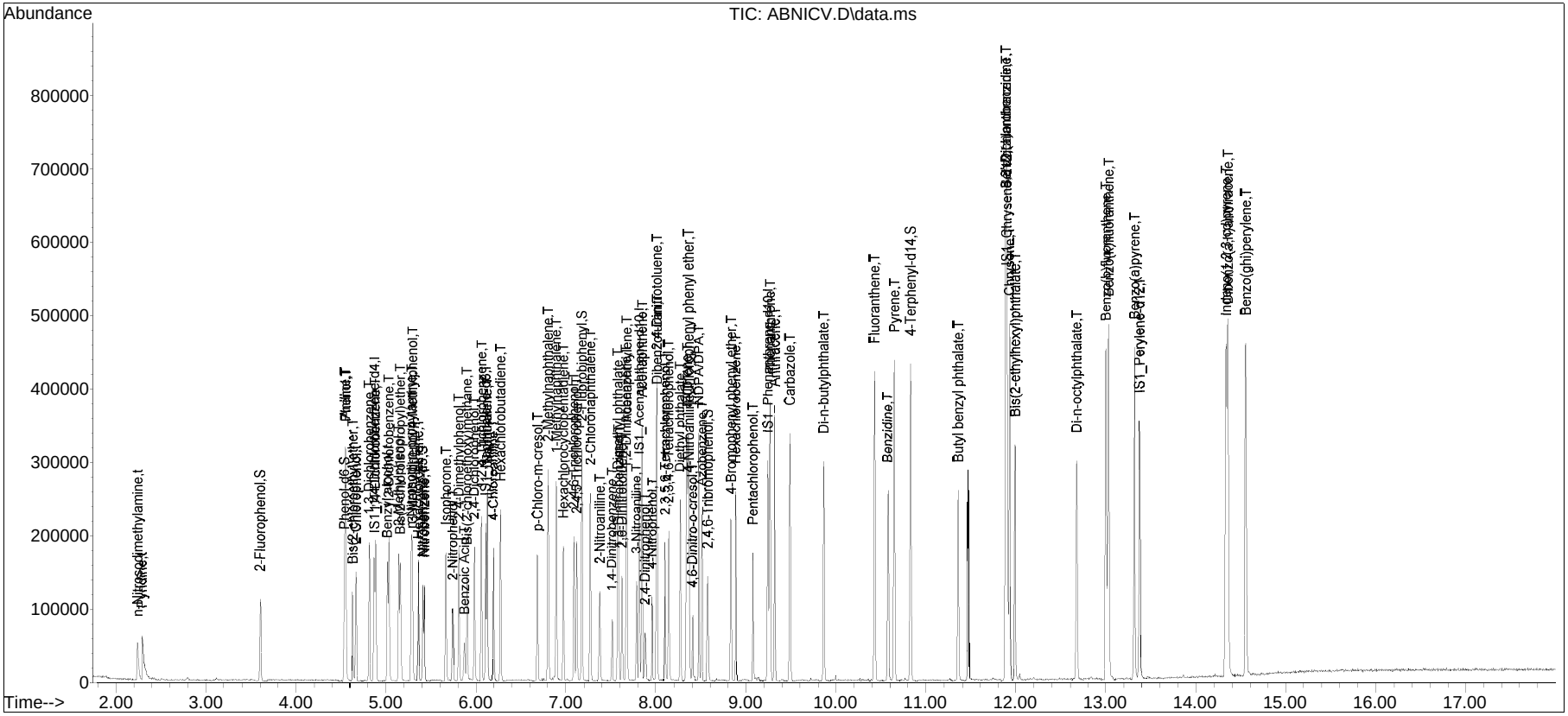
(#) = qualifier out of range (m) = manual integration (+) = signals summed

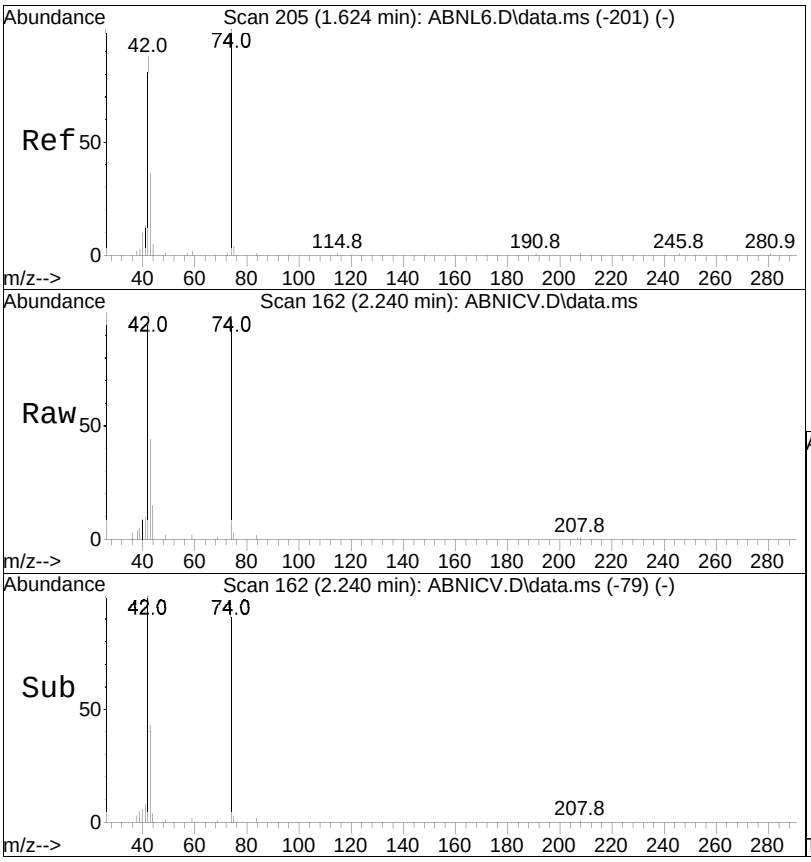
Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240228ical\
Data File : ABNICV.D
Acq On : 29 Feb 2024 4:23 am
Operator : Dakota:ljg
Sample : CQICV1,32,,ABNICV Lot# 10532
Misc : WG1890771,,
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Feb 29 13:54:25 2024
Quant Method : I:\8270\Dakota\240228ical\FS240228LVIDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Feb 29 09:56:18 2024
Response via : Initial Calibration

Sub List : ABNical - ABN ical sublistcal\ABNL6.D•

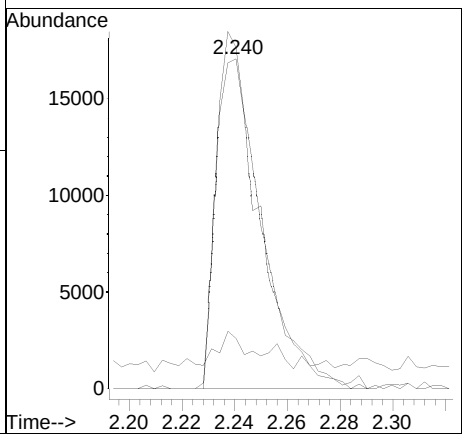


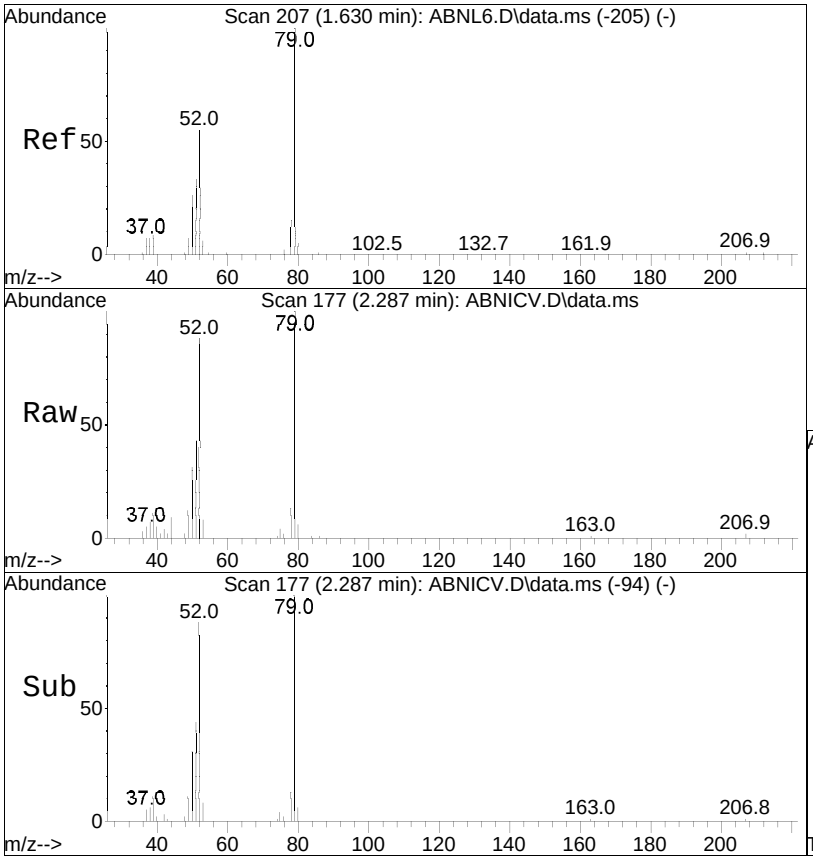


#2
n-Nitrosodimethylamine
Concen: 4.67 ug/ml
RT: 2.240 min Scan# 162
Delta R.T. 0.006 min
Lab File: ABNICV.D
Acq: 29 Feb 2024 4:23 am

Tgt Ion: 74 Resp: 20120

Ion	Ratio	Lower	Upper
74	100		
42	105.8	100.0	150.0
44	5.9	6.7	10.1#

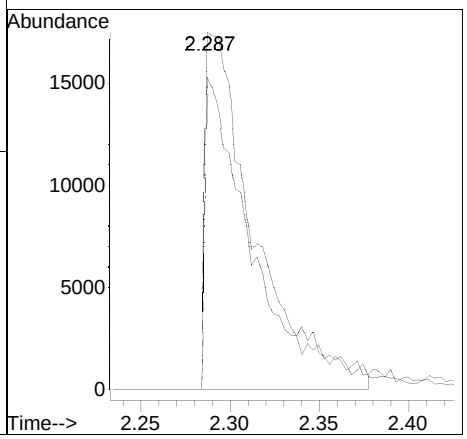


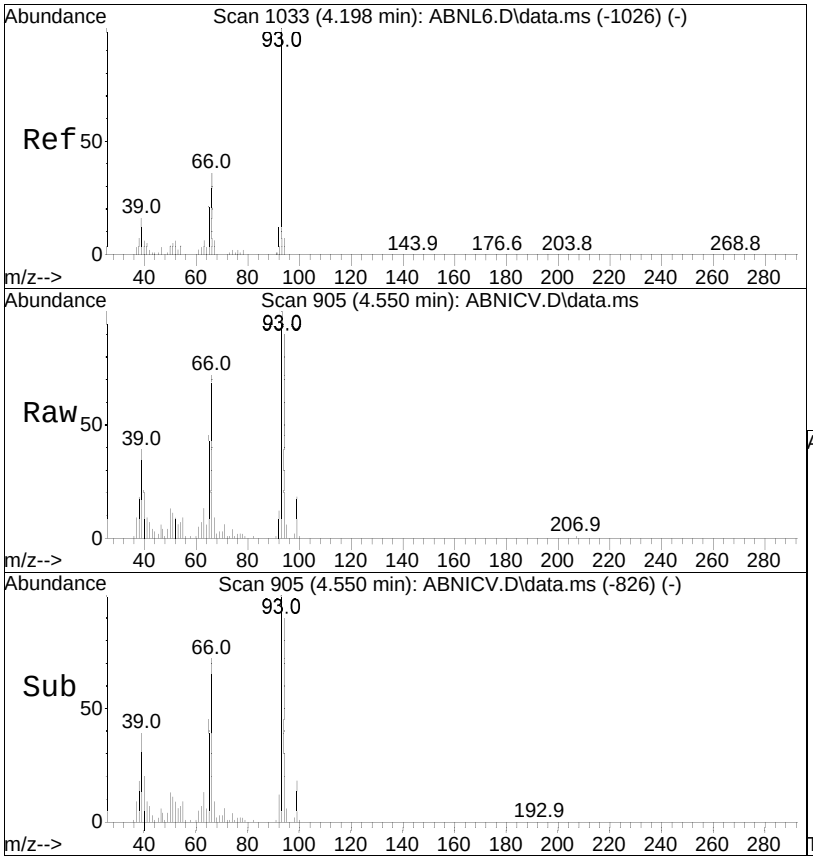


#3
Pyridine
Concen: 5.19 ug/ml
RT: 2.287 min Scan# 177
Delta R.T. 0.009 min
Lab File: ABNICV.D
Acq: 29 Feb 2024 4:23 am

Tgt Ion: 79 Resp: 33639

Ion	Ratio	Lower	Upper
79	100		
52	74.4	93.1	139.7#

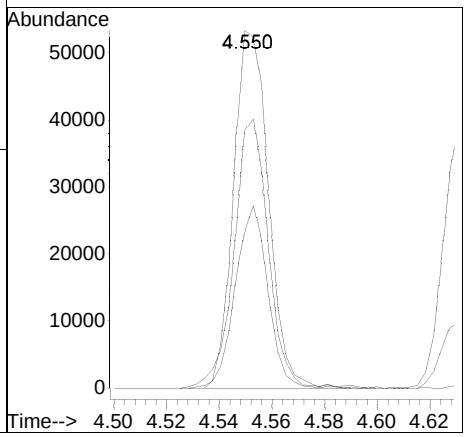


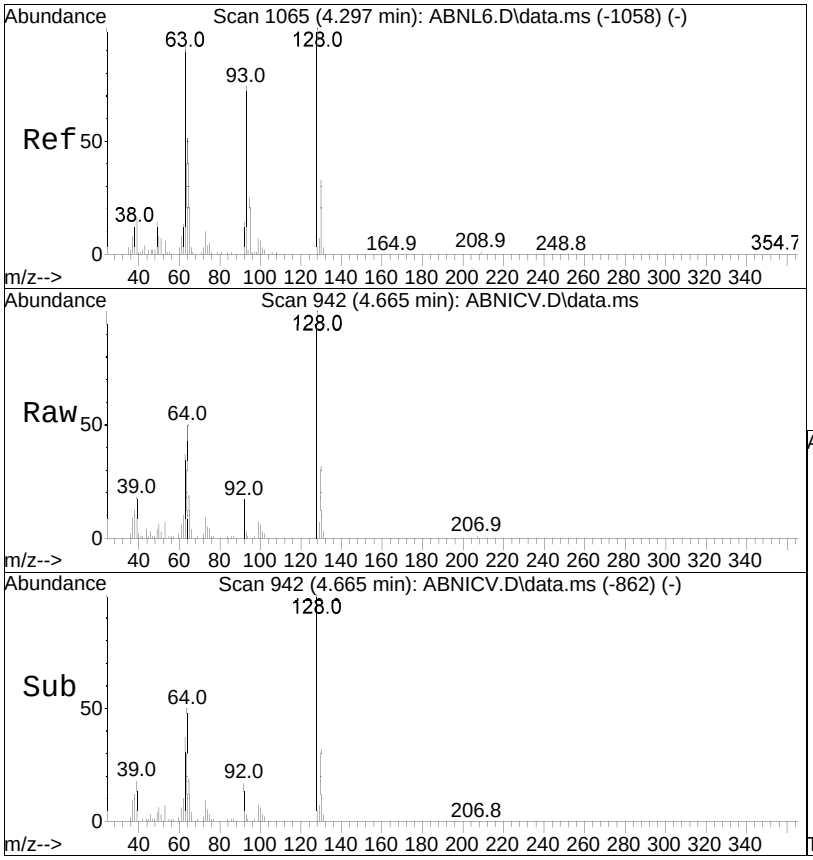


#5
Aniline
Concen: 5.28 ug/ml
RT: 4.550 min Scan# 905
Delta R.T. -0.003 min
Lab File: ABNICV.D
Acq: 29 Feb 2024 4:23 am

Tgt Ion: 93 Resp: 49226

Ion	Ratio	Lower	Upper
93	100		
66	73.4	32.6	49.0#
65	47.3	17.6	26.4#

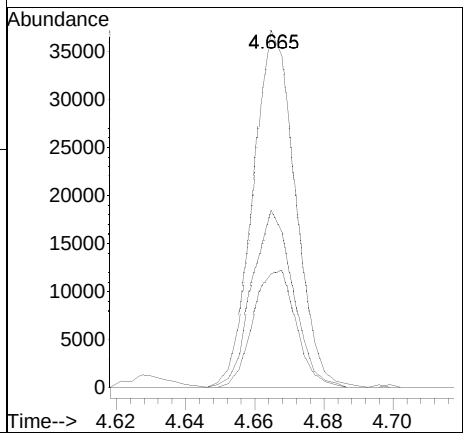


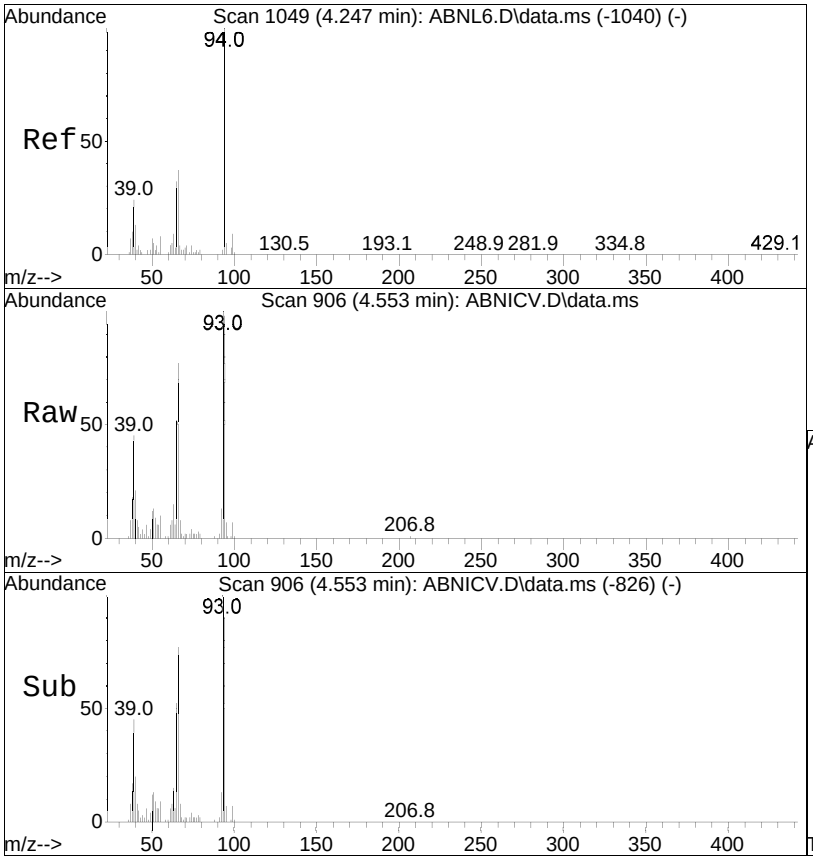


#6
2-Chlorophenol
Concen: 4.66 ug/ml
RT: 4.665 min Scan# 942
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 29 Feb 2024 4:23 am

Tgt Ion:128 Resp: 31534

Ion	Ratio	Lower	Upper
128	100		
64	48.3	45.1	67.7
130	33.4	26.2	39.4

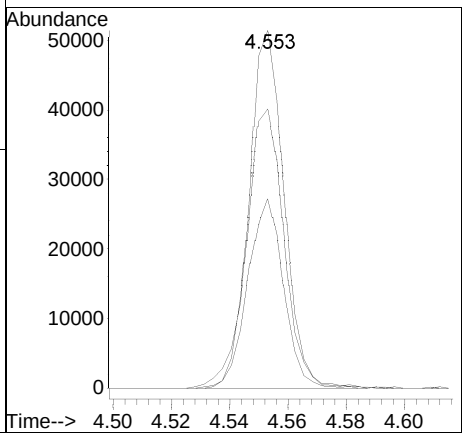


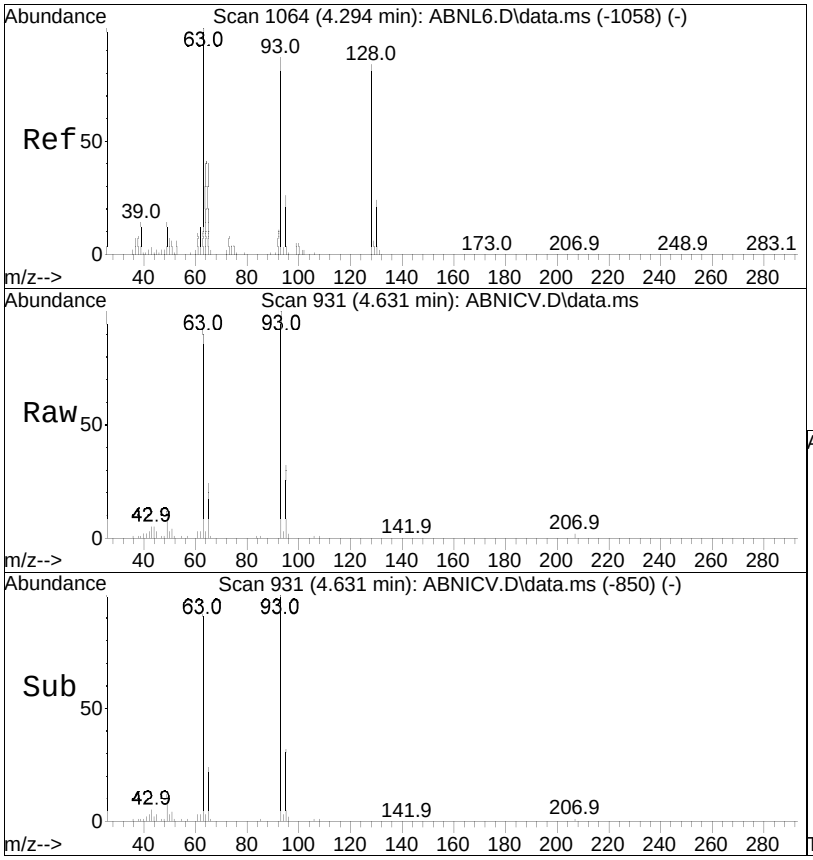


#8
Phenol
Concen: 4.85 ug/ml
RT: 4.553 min Scan# 906
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 29 Feb 2024 4:23 am

Tgt Ion: 94 Resp: 42831

Ion	Ratio	Lower	Upper
94	100		
65	54.4	26.0	39.0#
66	84.4	33.8	50.8#

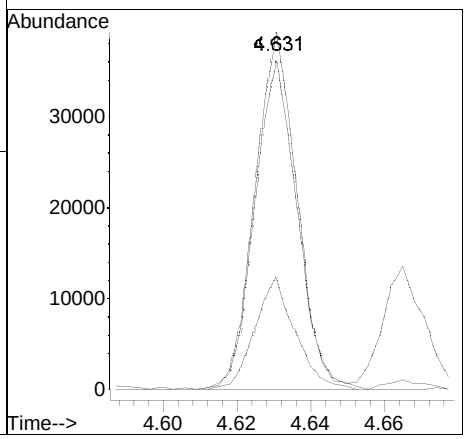


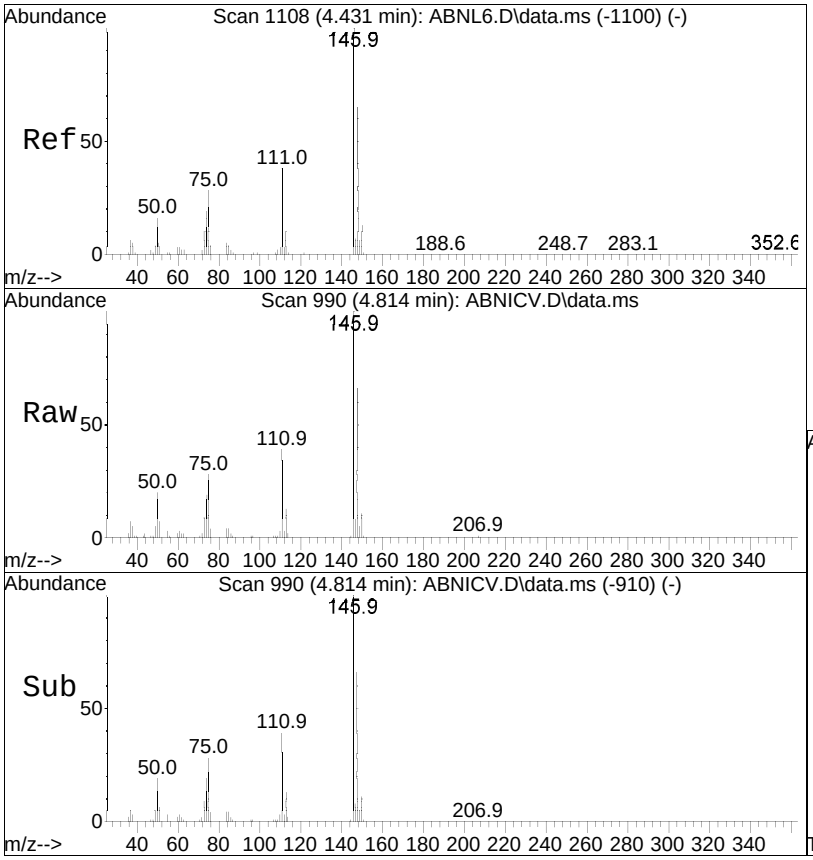


#9
Bis(2-chloroethyl)ether
Concen: 4.93 ug/ml
RT: 4.631 min Scan# 931
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 29 Feb 2024 4:23 am

Tgt Ion: 93 Resp: 30843

Ion	Ratio	Lower	Upper
93	100		
63	92.9	74.6	111.8
95	30.4	25.9	38.9

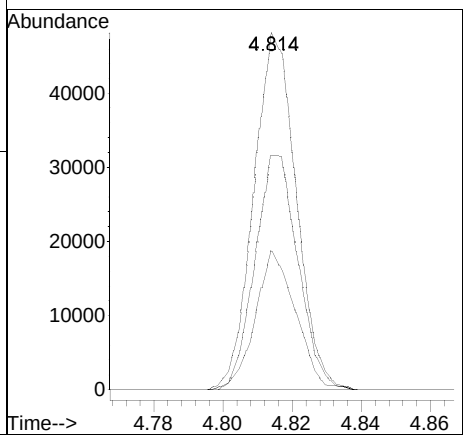


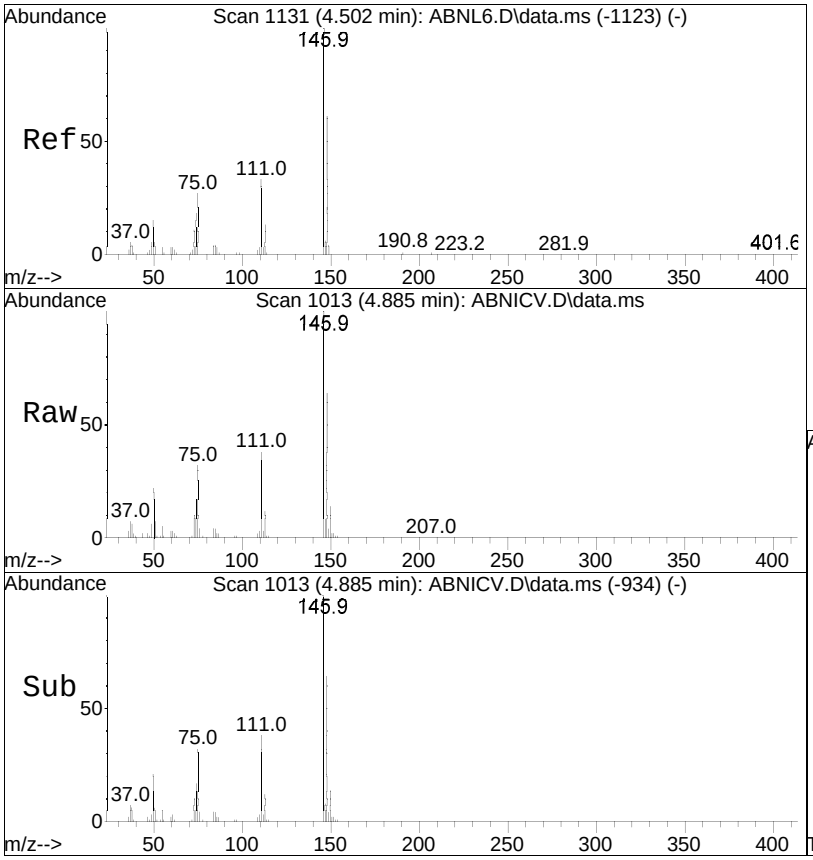


#10
1,3-Dichlorobenzene
Concen: 4.74 ug/ml
RT: 4.814 min Scan# 990
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 29 Feb 2024 4:23 am

Tgt Ion:146 Resp: 40915

Ion	Ratio	Lower	Upper
146	100		
111	37.4	34.3	51.5
148	66.6	50.8	76.2

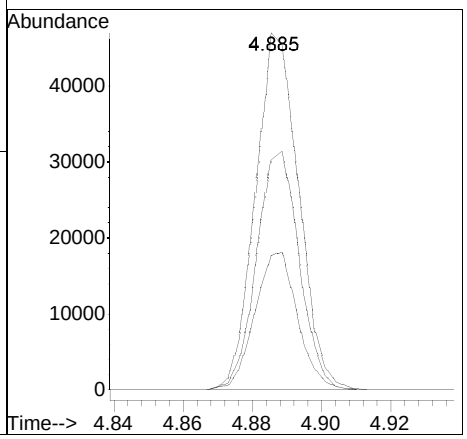


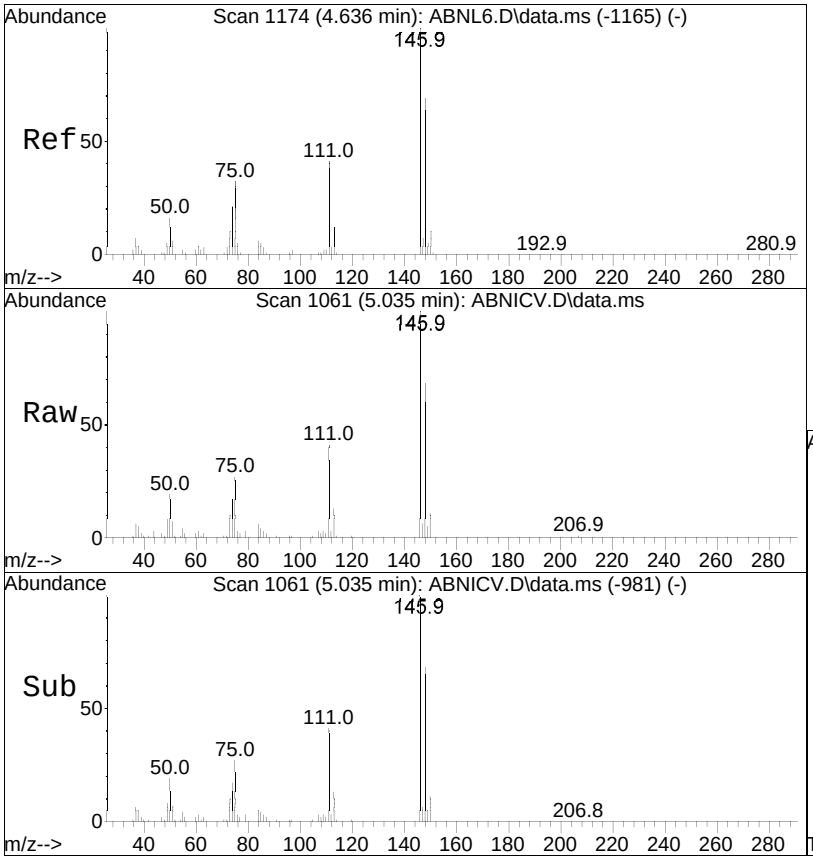


#11
1,4-Dichlorobenzene
Concen: 4.66 ug/ml
RT: 4.885 min Scan# 1013
Delta R.T. -0.004 min
Lab File: ABNICV.D
Acq: 29 Feb 2024 4:23 am

Tgt Ion:146 Resp: 40724

Ion	Ratio	Lower	Upper
146	100		
148	66.0	50.7	76.1
111	38.2	33.4	50.0

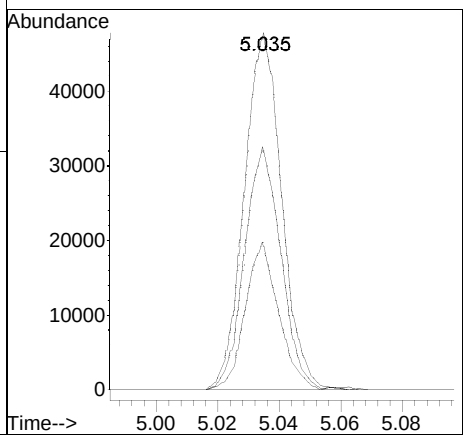


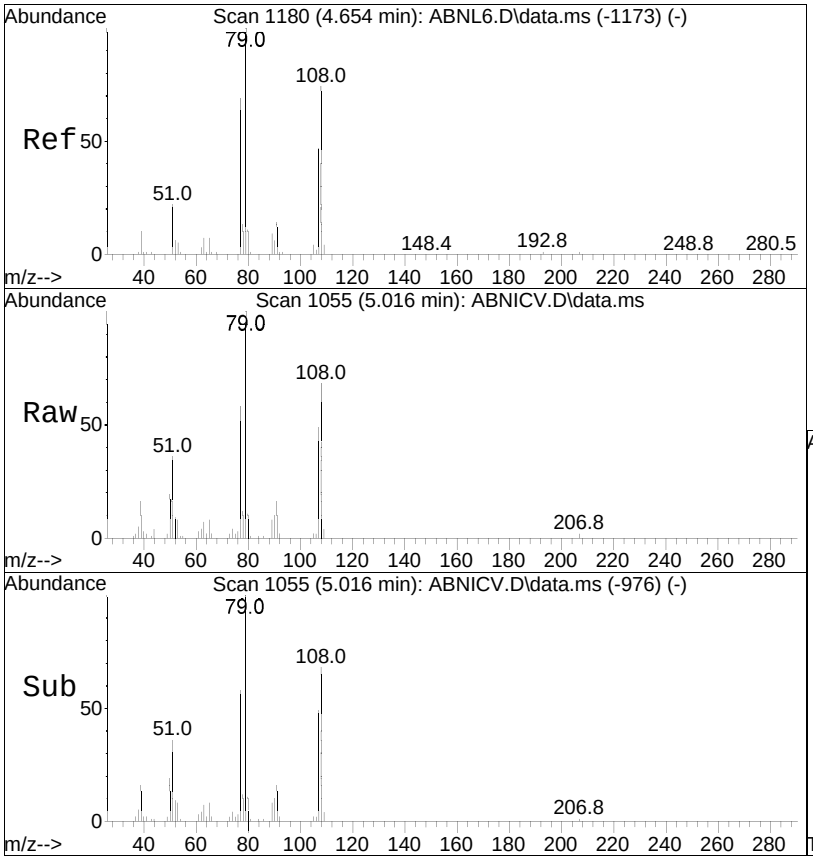


#12
1,2-Dichlorobenzene
Concen: 4.82 ug/ml
RT: 5.035 min Scan# 1061
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 29 Feb 2024 4:23 am

Tgt Ion:146 Resp: 40083

Ion	Ratio	Lower	Upper
146	100		
111	37.1	34.6	52.0
148	66.2	50.2	75.4

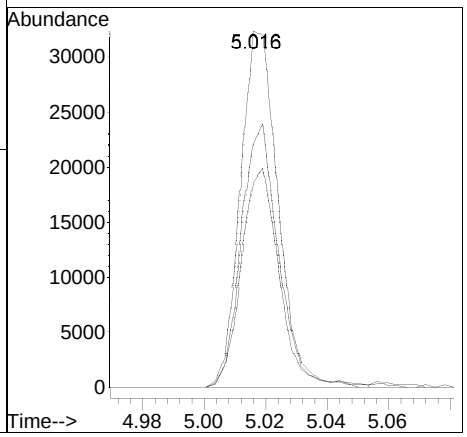


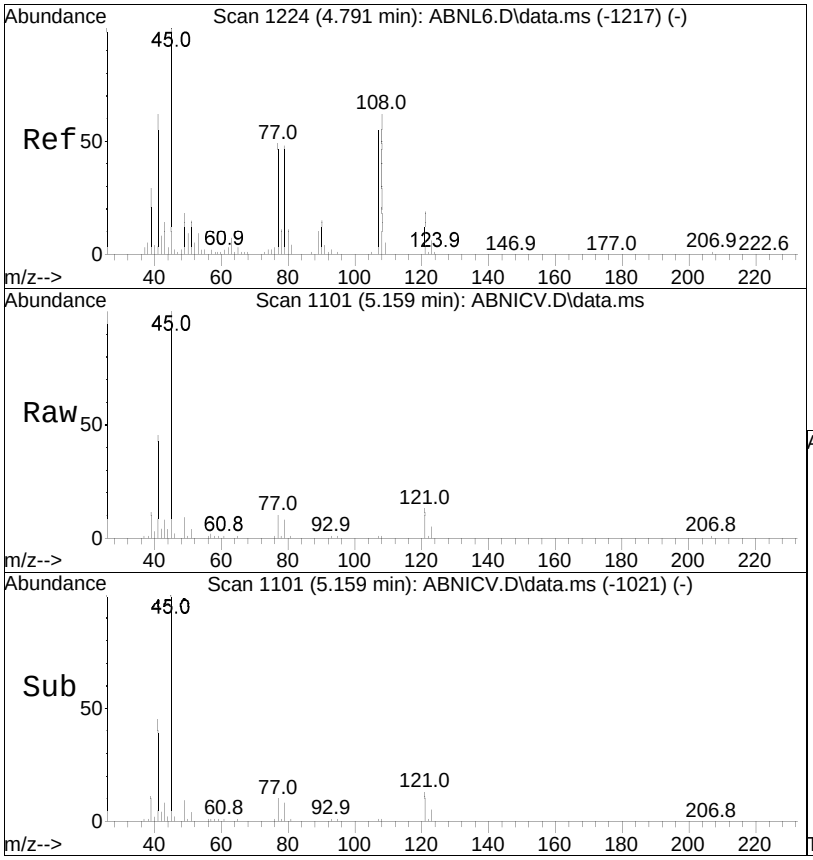


#13
Benzyl alcohol
Concen: 4.91 ug/ml
RT: 5.016 min Scan# 1055
Delta R.T. -0.003 min
Lab File: ABNICV.D
Acq: 29 Feb 2024 4:23 am

Tgt Ion: 79 Resp: 27492

Ion	Ratio	Lower	Upper
79	100		
77	62.3	54.9	82.3
108	72.9	63.1	94.7

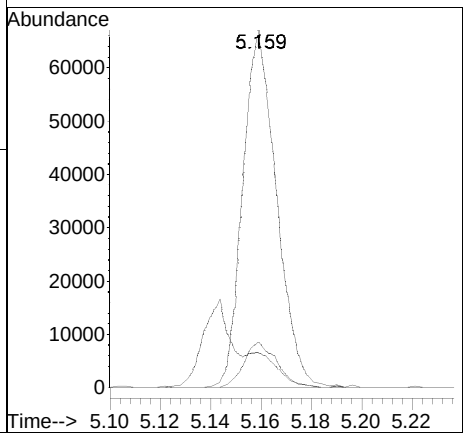


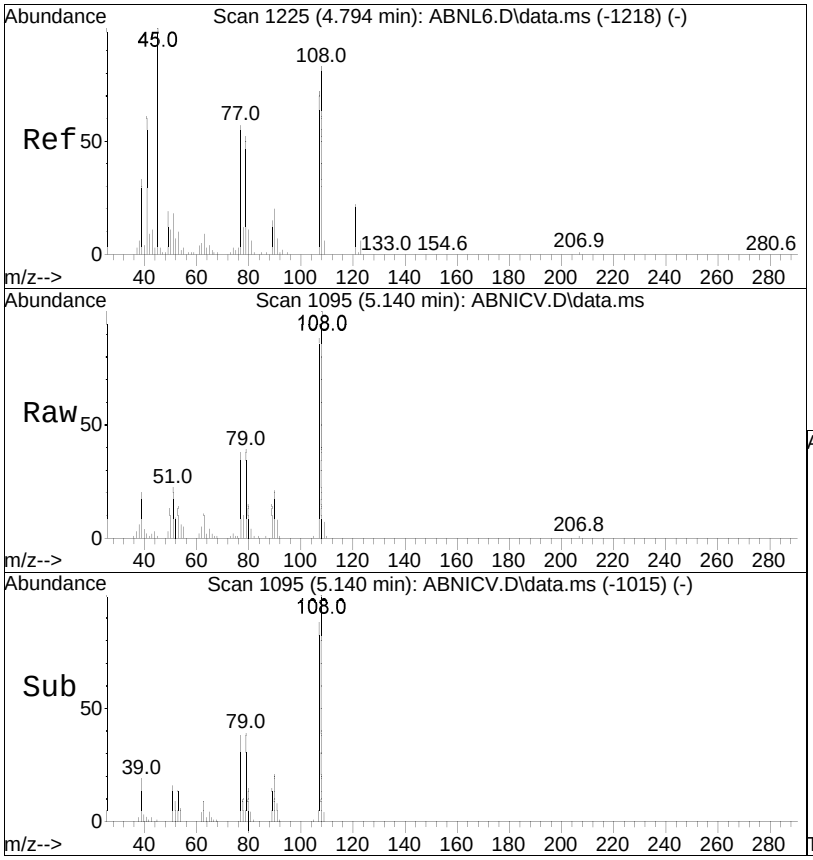


#14
Bis(2-chloroisopropyl)ether
Concen: 4.86 ug/ml
RT: 5.159 min Scan# 1101
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 29 Feb 2024 4:23 am

Tgt Ion: 45 Resp: 61771

Ion	Ratio	Lower	Upper
45	100		
121	12.5	9.8	14.6
77	21.1	6.1	9.1#

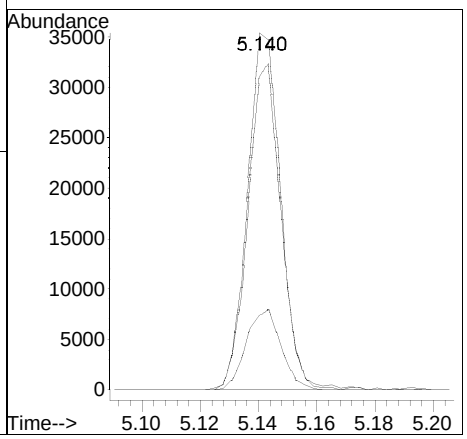


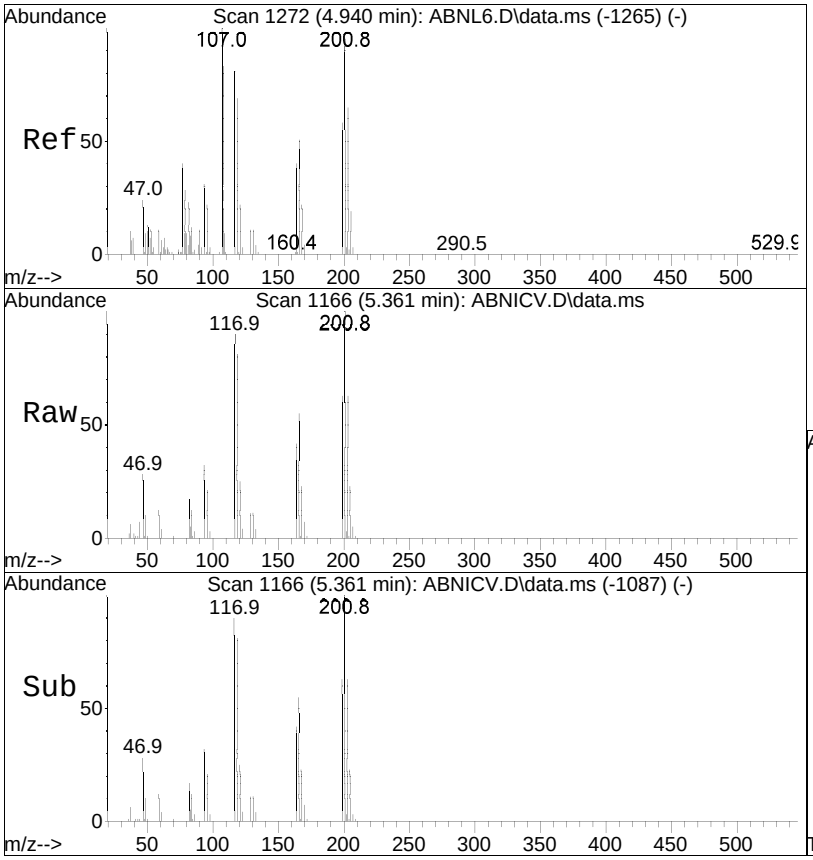


#15
2-Methylphenol
Concen: 4.67 ug/ml
RT: 5.140 min Scan# 1095
Delta R.T. -0.003 min
Lab File: ABNICV.D
Acq: 29 Feb 2024 4:23 am

Tgt Ion:108 Resp: 28124

Ion	Ratio	Lower	Upper
108	100		
107	90.0	70.7	106.1
90	23.6	18.7	28.1

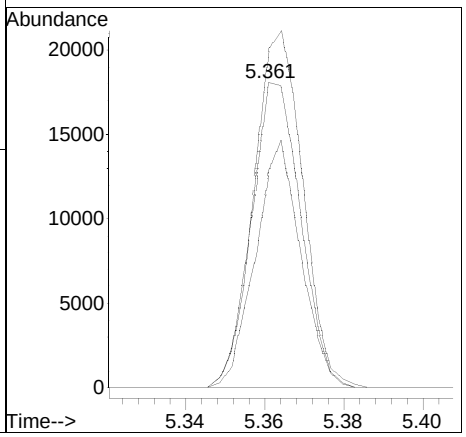


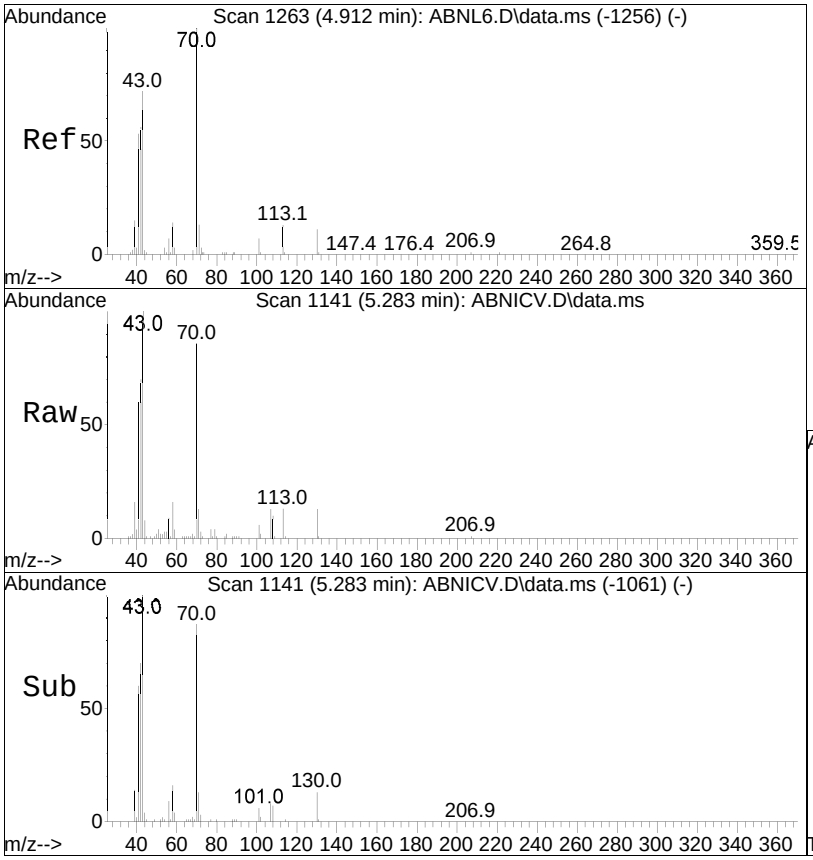


#16
Hexachloroethane
Concen: 4.92 ug/ml
RT: 5.361 min Scan# 1166
Delta R.T. -0.003 min
Lab File: ABNICV.D
Acq: 29 Feb 2024 4:23 am

Tgt Ion:117 Resp: 15678

Ion	Ratio	Lower	Upper
117	100		
201	115.8	58.6	87.8#
199	74.3	36.9	55.3#

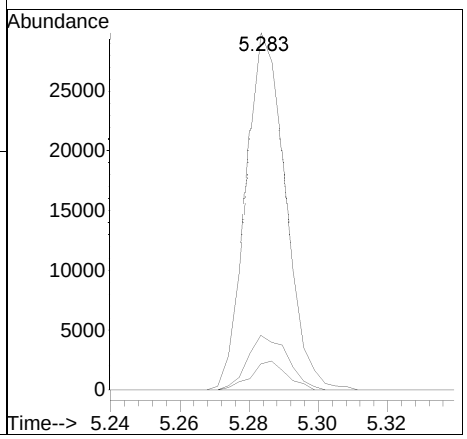


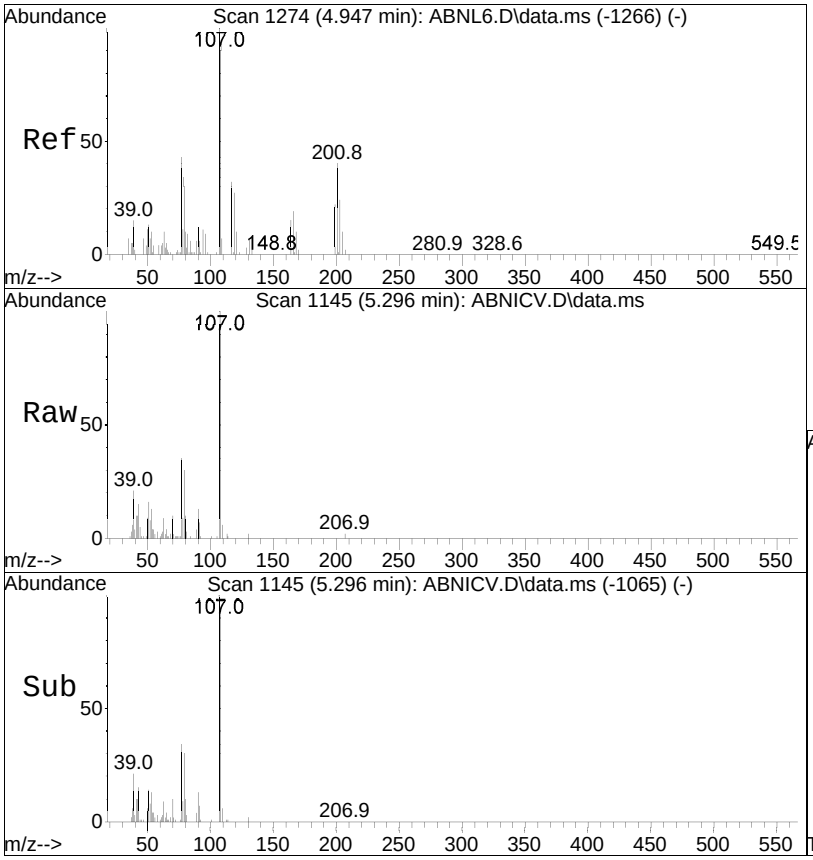


#17
n-Nitrosodi-n-propylamine
Concen: 4.78 ug/ml
RT: 5.283 min Scan# 1141
Delta R.T. -0.003 min
Lab File: ABNICV.D
Acq: 29 Feb 2024 4:23 am

Tgt Ion: 70 Resp: 23759

Ion	Ratio	Lower	Upper
70	100		
130	15.4	18.2	27.4#
101	7.3	7.8	11.8#

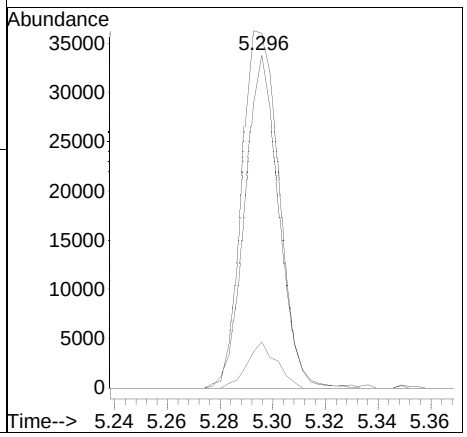


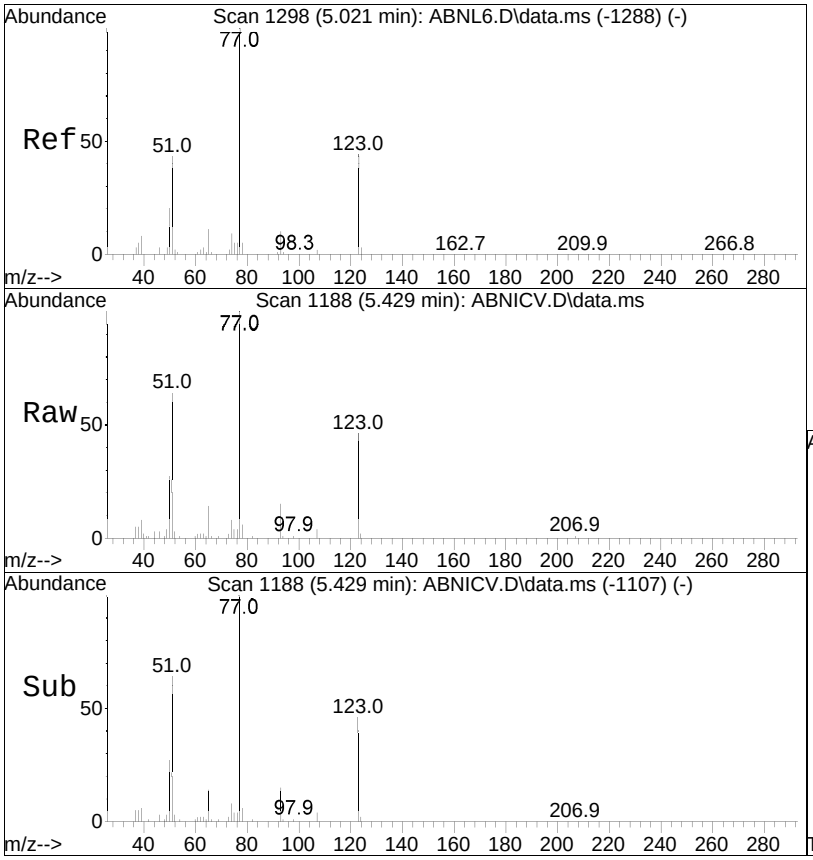


#18
3-Methylphenol/4-Methylphenol
Concen: 4.59 ug/ml
RT: 5.296 min Scan# 1145
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 29 Feb 2024 4:23 am

Tgt Ion:108 Resp: 30175

Ion	Ratio	Lower	Upper
108	100		
107	118.4	88.6	132.8
90	11.9	8.8	13.2

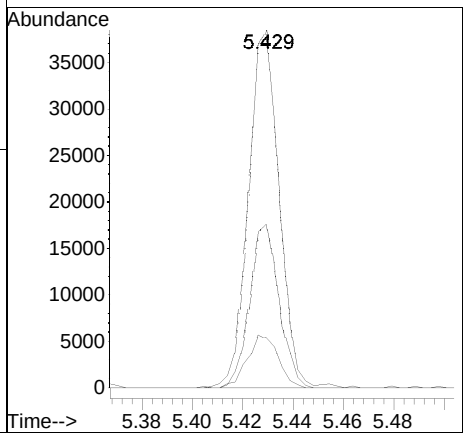


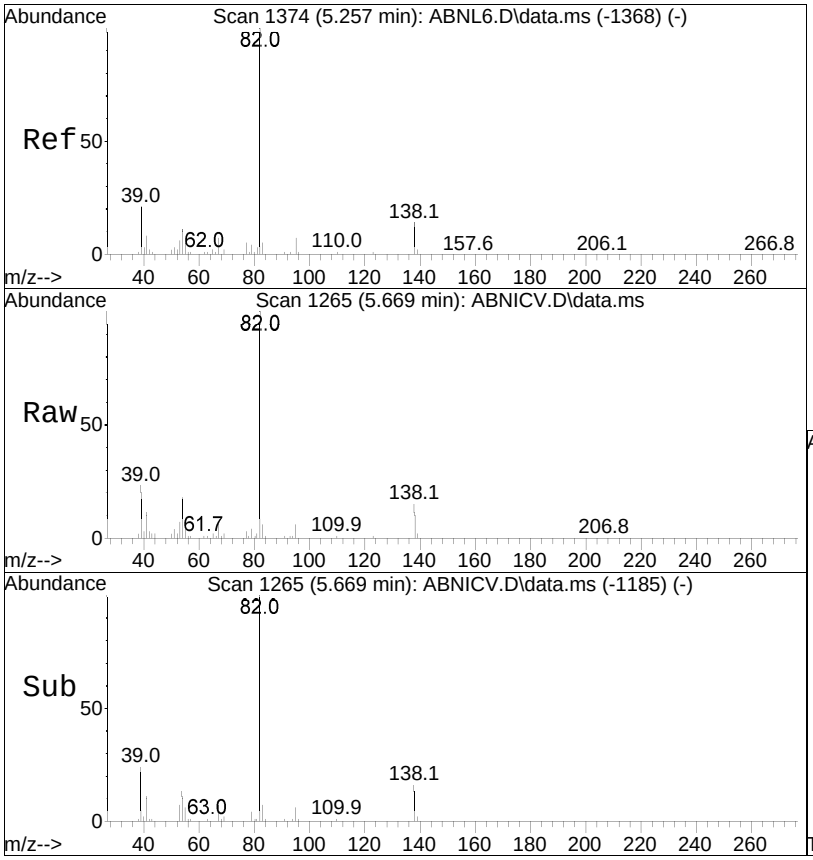


#20
Nitrobenzene
Concen: 4.56 ug/ml
RT: 5.429 min Scan# 1188
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 29 Feb 2024 4:23 am

Tgt Ion: 77 Resp: 32296

Ion	Ratio	Lower	Upper
77	100		
123	43.9	36.3	54.5
65	15.1	11.6	17.4

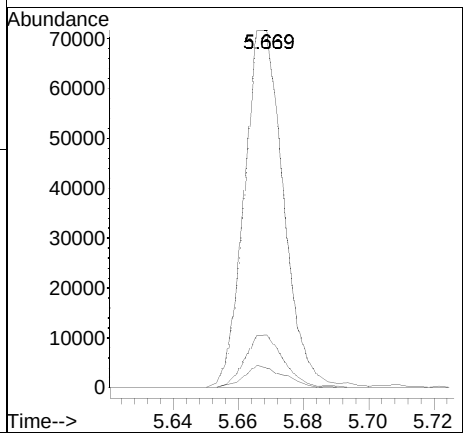


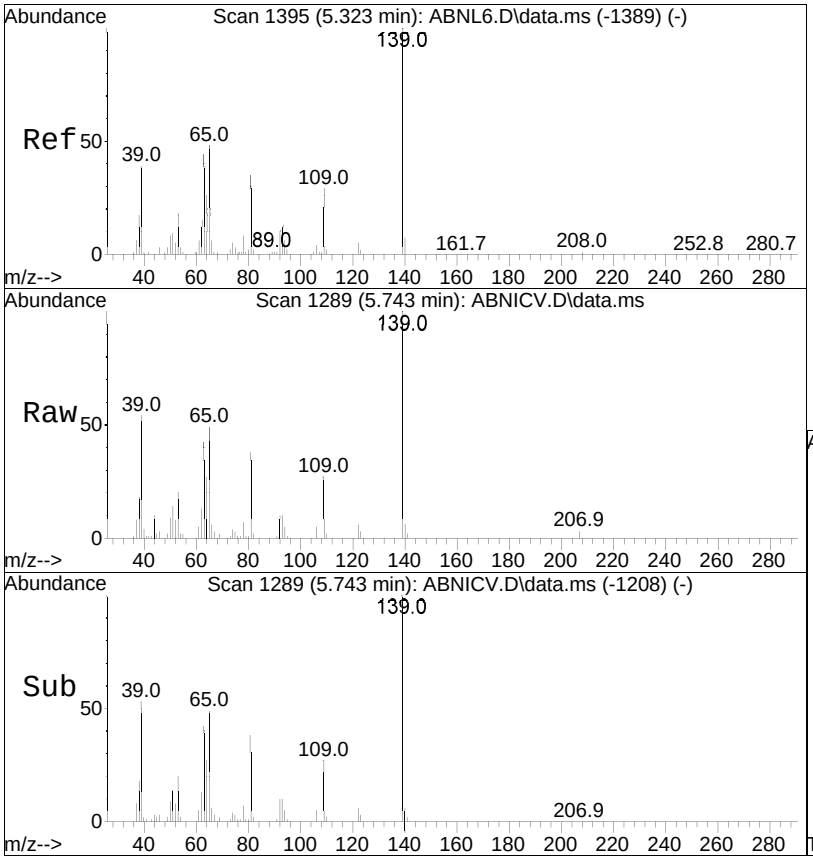


#21
Isophorone
Concen: 4.71 ug/ml
RT: 5.669 min Scan# 1265
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 29 Feb 2024 4:23 am

Tgt Ion: 82 Resp: 59492

Ion	Ratio	Lower	Upper
82	100		
138	14.6	14.7	22.1#
95	6.2	5.2	7.8

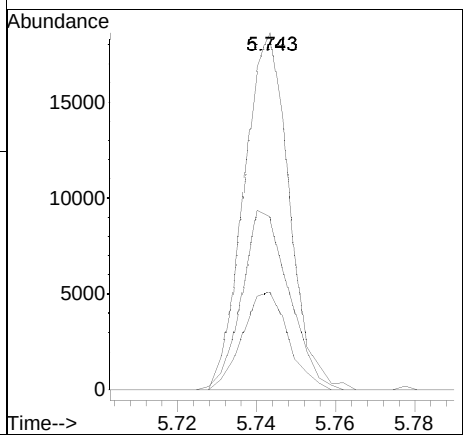


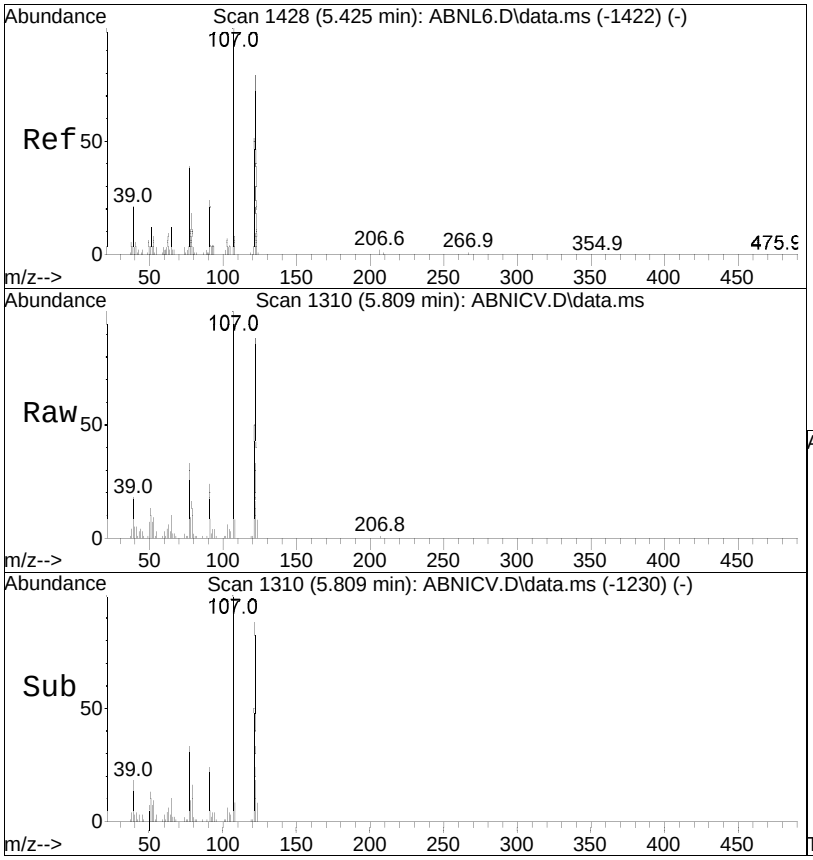


#22
2-Nitrophenol
Concen: 4.43 ug/ml
RT: 5.743 min Scan# 1289
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 29 Feb 2024 4:23 am

Tgt Ion:139 Resp: 14684

Ion	Ratio	Lower	Upper
139	100		
109	27.9	19.4	29.0
65	52.4	46.1	69.1

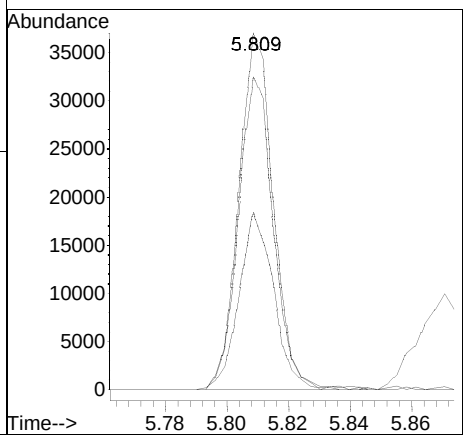


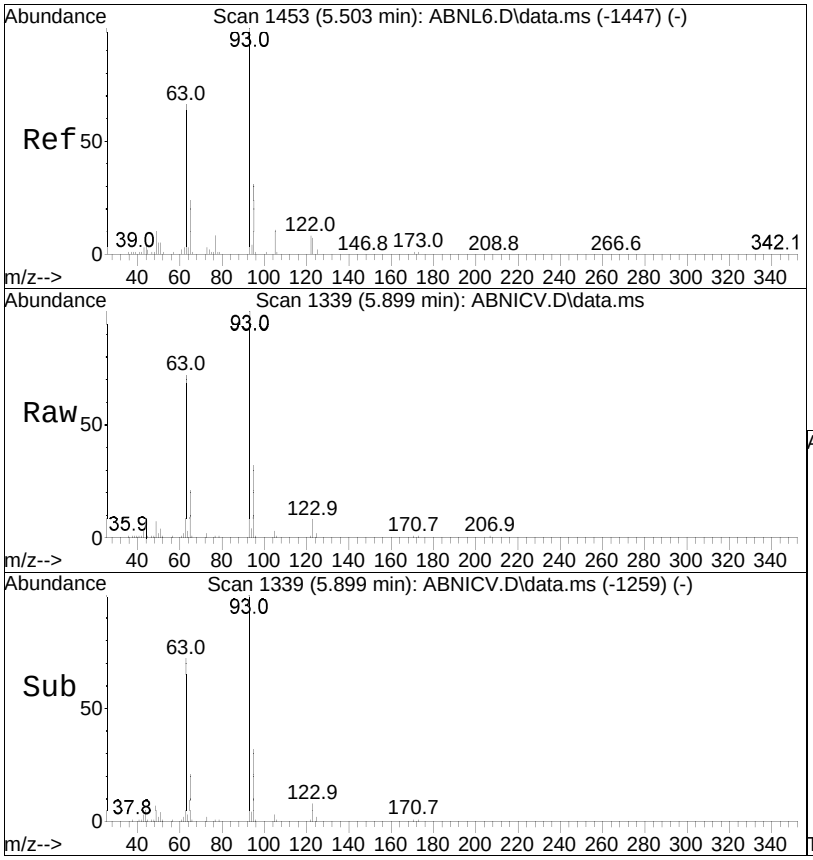


#23
2,4-Dimethylphenol
Concen: 5.57 ug/ml
RT: 5.809 min Scan# 1310
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 29 Feb 2024 4:23 am

Tgt Ion:107 Resp: 28814

Ion	Ratio	Lower	Upper
107	100		
121	49.9	40.0	60.0
122	88.4	70.2	105.4

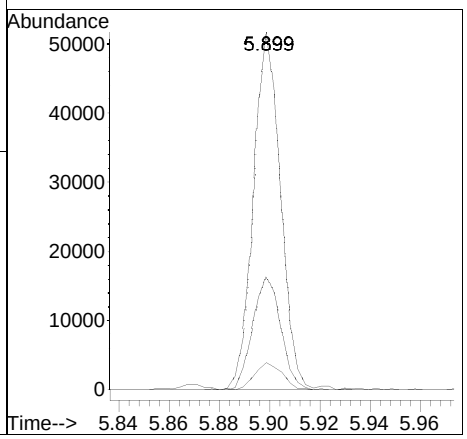


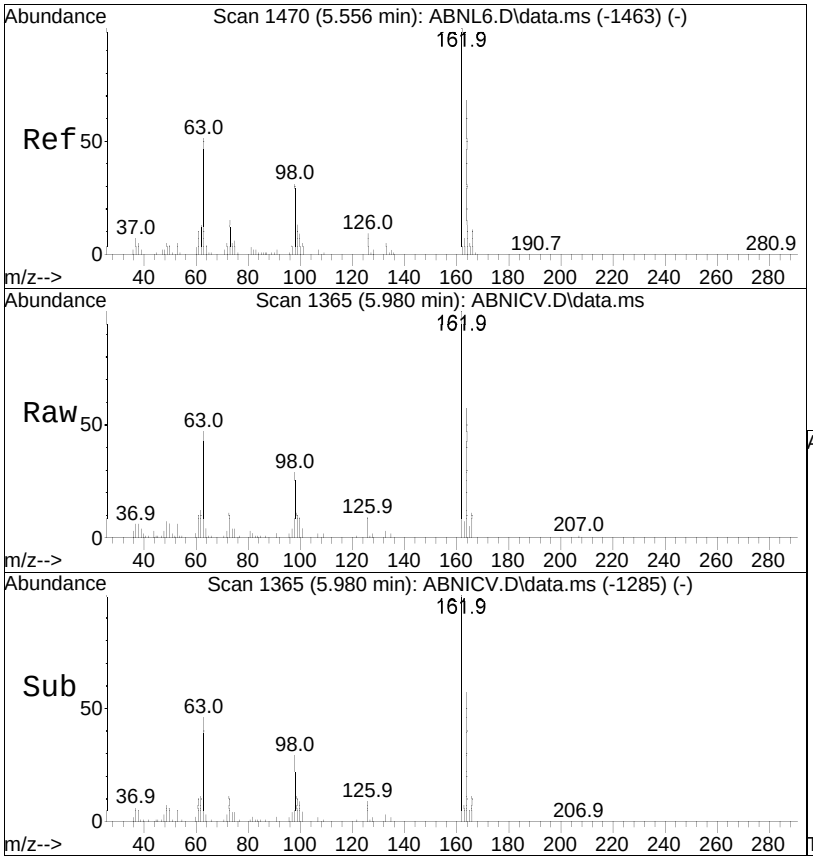


#24
Bis(2-chloroethoxy)methane
Concen: 4.75 ug/ml
RT: 5.899 min Scan# 1339
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 29 Feb 2024 4:23 am

Tgt Ion: 93 Resp: 38556

Ion	Ratio	Lower	Upper
93	100		
95	32.8	25.8	38.8
123	7.7	10.1	15.1#

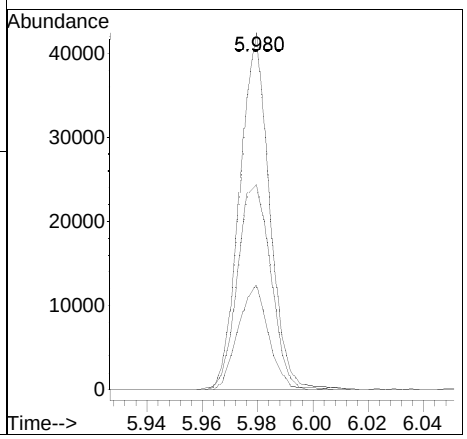


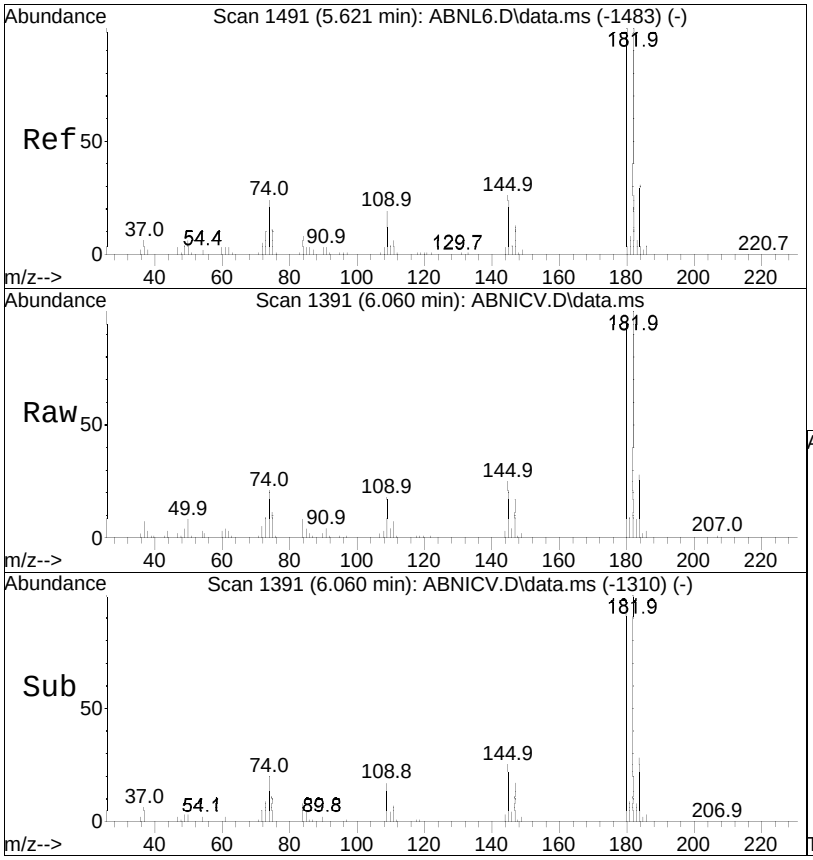


#25
2,4-Dichlorophenol
Concen: 4.77 ug/ml
RT: 5.980 min Scan# 1365
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 29 Feb 2024 4:23 am

Tgt Ion:162 Resp: 31735

Ion	Ratio	Lower	Upper
162	100		
164	64.6	51.0	76.4
98	30.1	32.2	48.2#

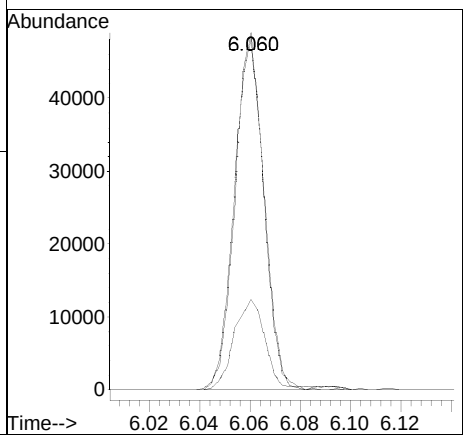


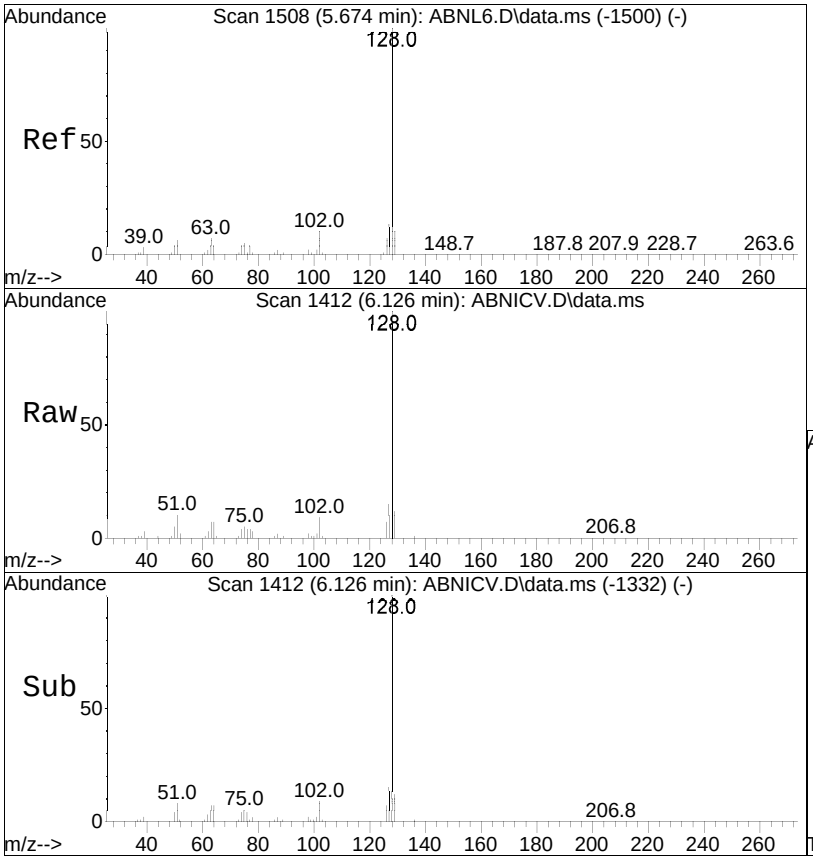


#26
1,2,4-Trichlorobenzene
Concen: 4.65 ug/ml
RT: 6.060 min Scan# 1391
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 29 Feb 2024 4:23 am

Tgt Ion:180 Resp: 39791

Ion	Ratio	Lower	Upper
180	100		
182	96.9	76.0	114.0
145	26.7	25.7	38.5

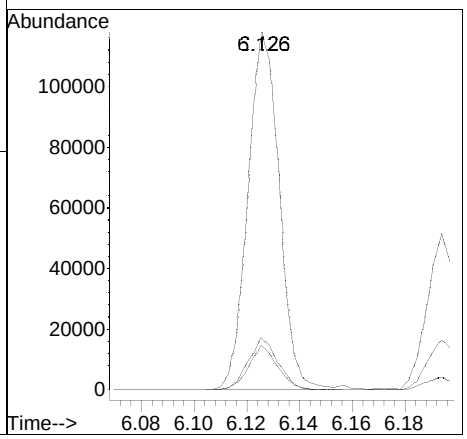


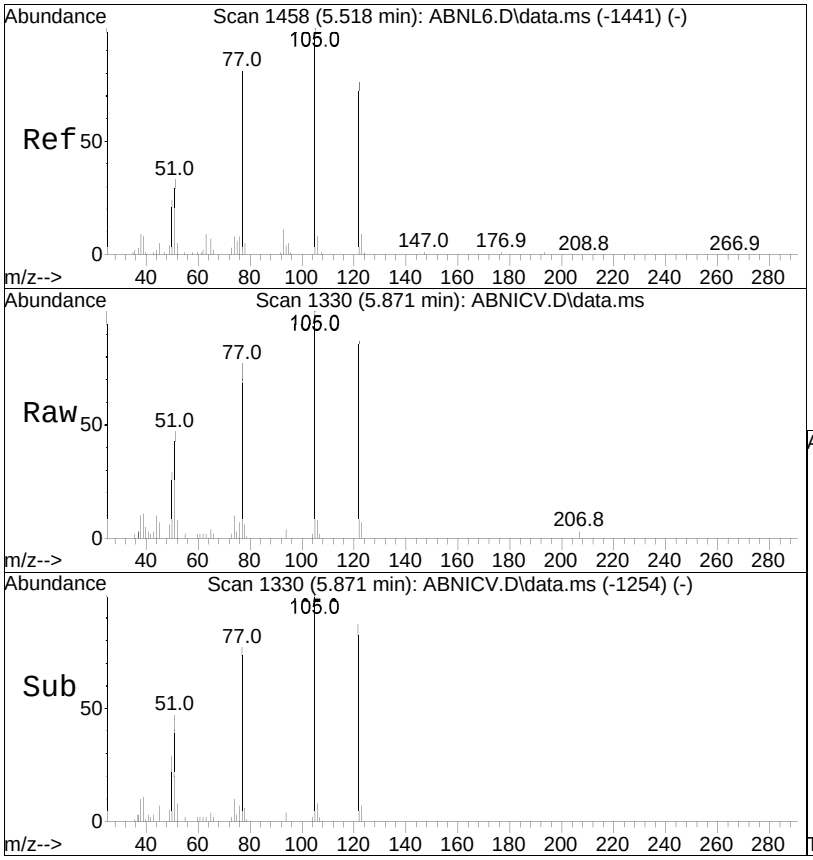


#34
Naphthalene
Concen: 4.64 ug/ml
RT: 6.126 min Scan# 1412
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 29 Feb 2024 4:23 am

Tgt Ion:128 Resp: 97871

Ion	Ratio	Lower	Upper
128	100		
129	11.4	8.7	13.1
127	13.8	10.3	15.5

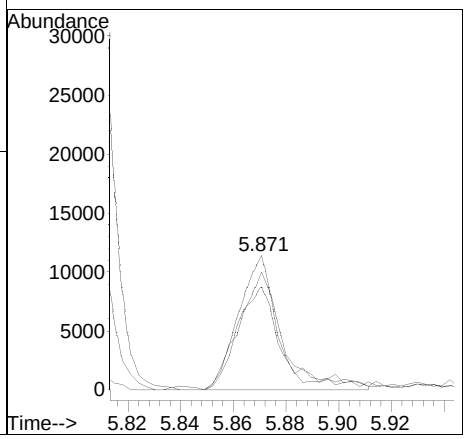


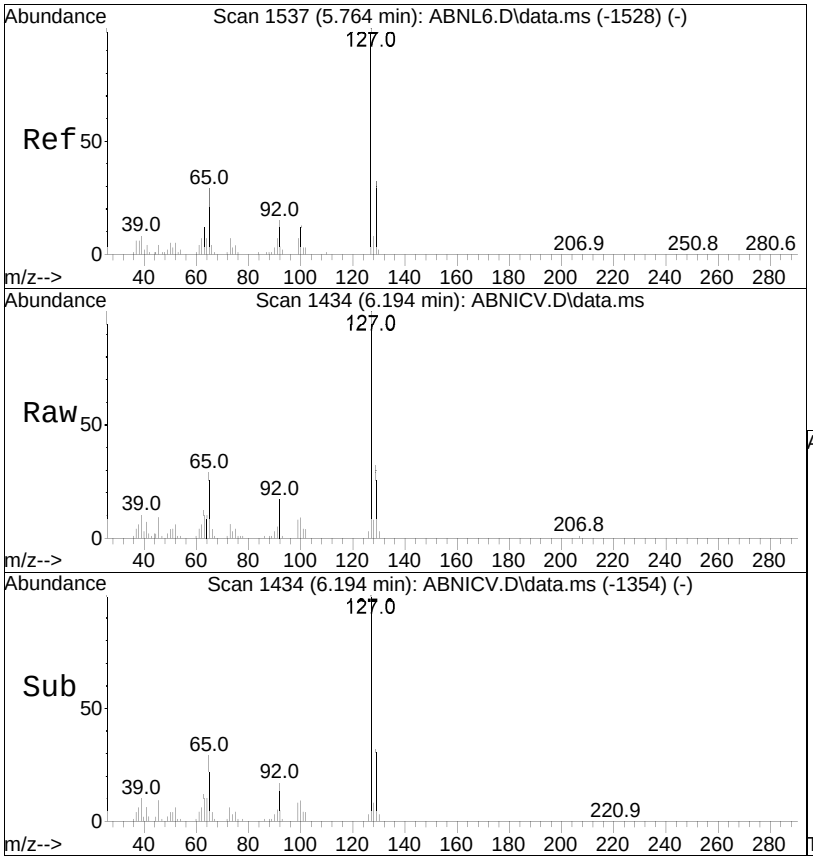


#35
Benzoic Acid
Concen: 3.73 ug/ml M1
RT: 5.871 min Scan# 1330
Delta R.T. -0.012 min
Lab File: ABNICV.D
Acq: 29 Feb 2024 4:23 am

Tgt Ion:105 Resp: 12847

Ion	Ratio	Lower	Upper
105	100		
122	89.5	59.9	89.9
77	73.2	60.1	90.1

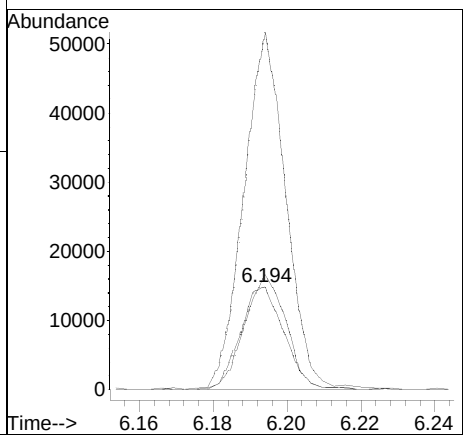


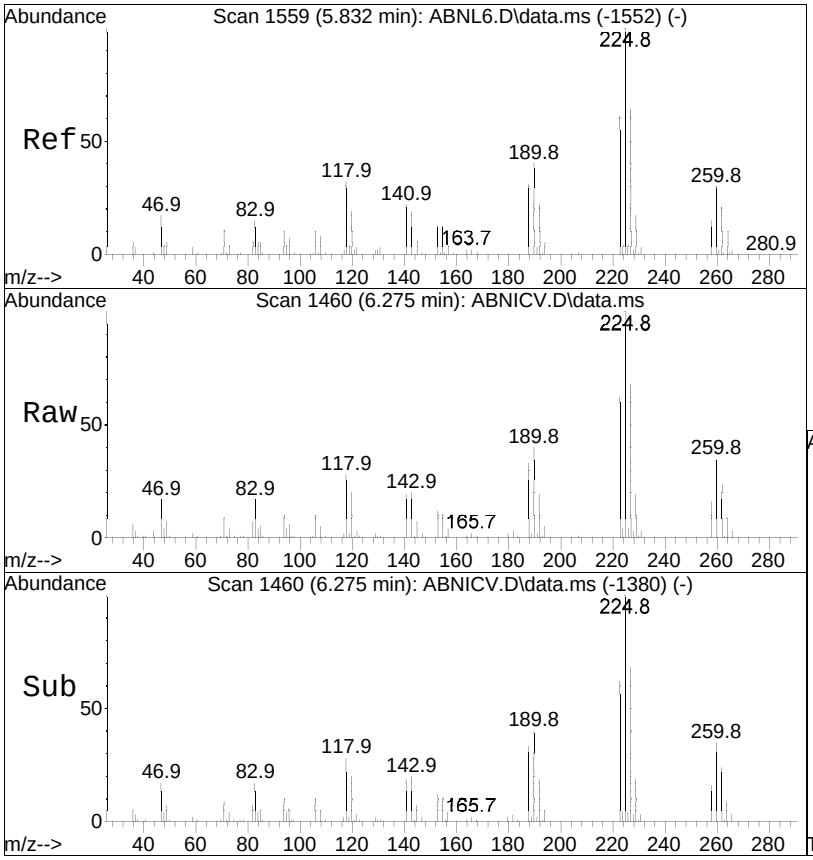


#36
4-Chloroaniline
Concen: 4.52 ug/ml
RT: 6.194 min Scan# 1434
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 29 Feb 2024 4:23 am

Tgt Ion: 65 Resp: 12191

Ion	Ratio	Lower	Upper
65	100		
127	332.9	237.6	356.4
129	106.1	76.3	114.5

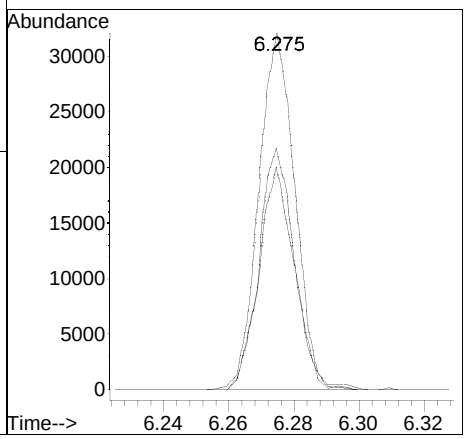


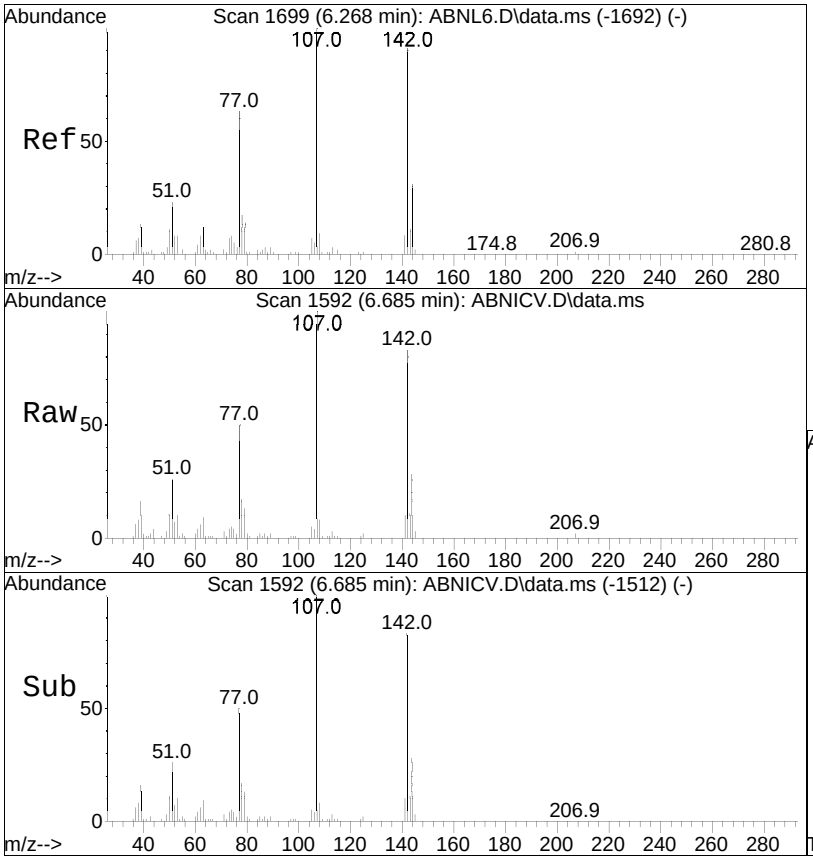


#37
Hexachlorobutadiene
Concen: 4.72 ug/ml
RT: 6.275 min Scan# 1460
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 29 Feb 2024 4:23 am

Tgt Ion:225 Resp: 24758

Ion	Ratio	Lower	Upper
225	100		
223	61.1	50.3	75.5
227	66.1	52.2	78.2

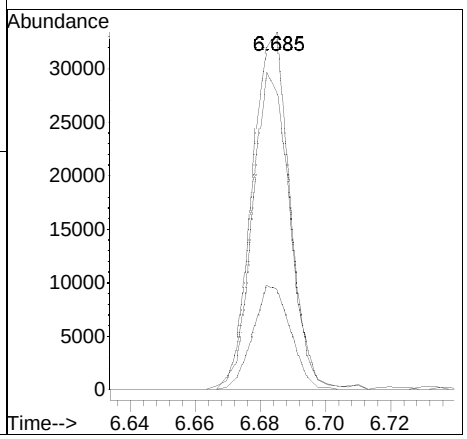


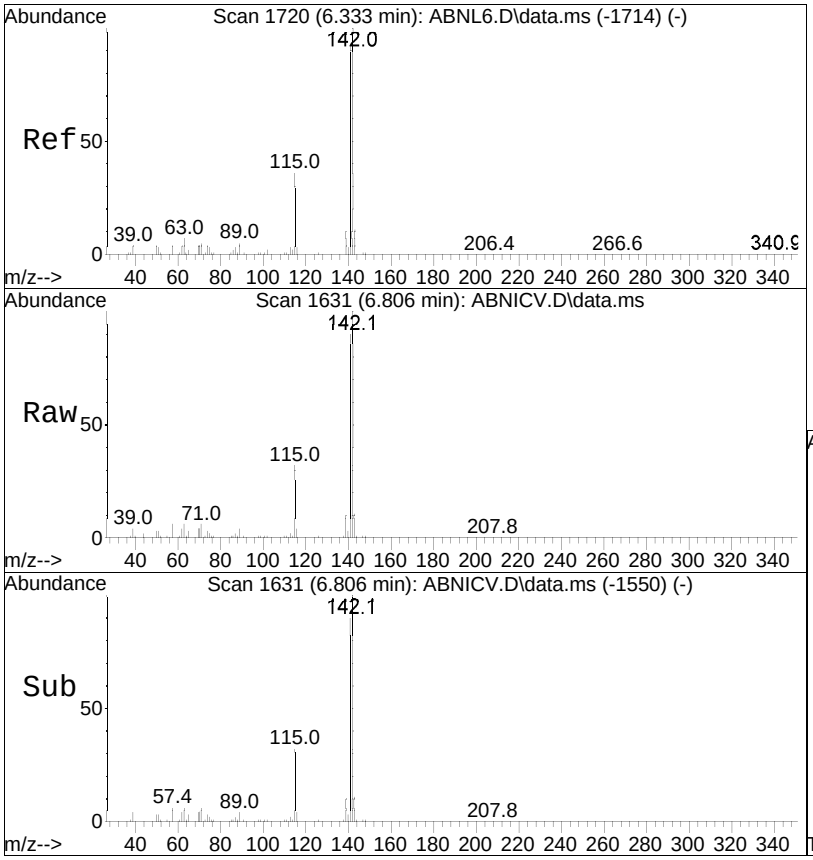


#38
p-Chloro-m-cresol
Concen: 4.53 ug/ml
RT: 6.685 min Scan# 1592
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 29 Feb 2024 4:23 am

Tgt Ion:107 Resp: 26687

Ion	Ratio	Lower	Upper
107	100		
144	29.2	20.9	31.3
142	88.3	66.1	99.1

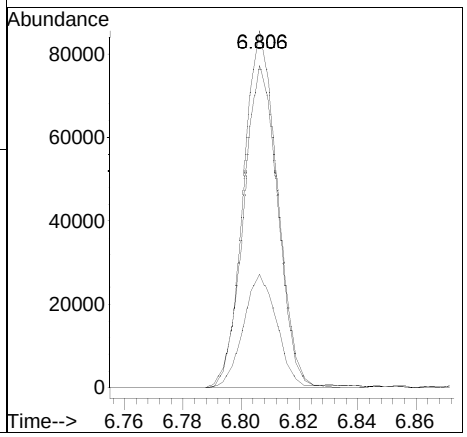


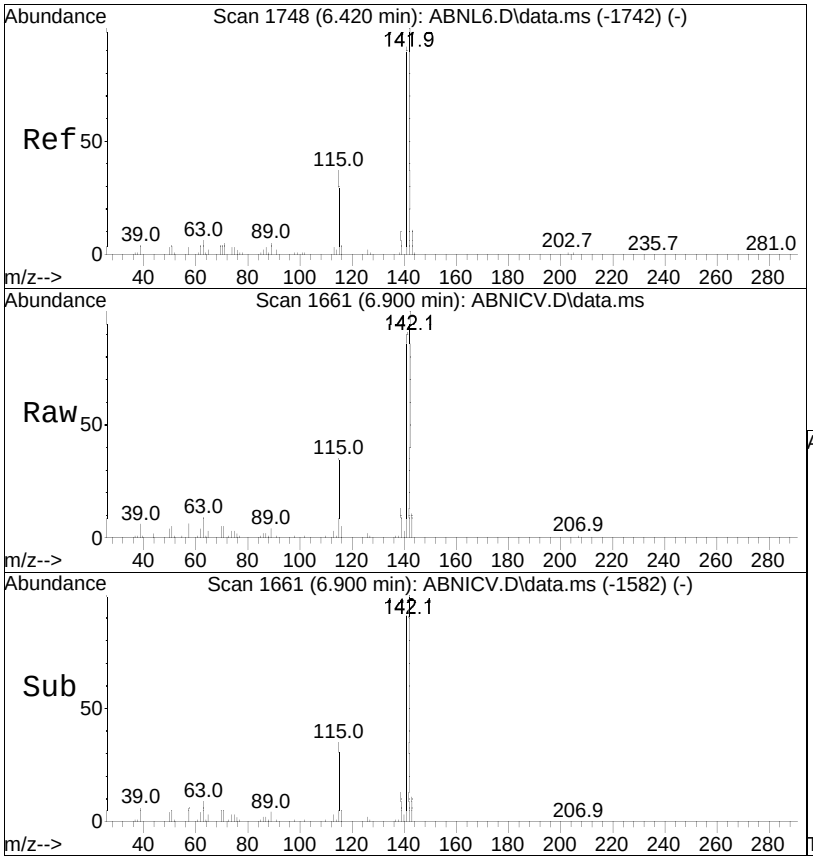


#39
2-Methylnaphthalene
Concen: 4.70 ug/ml
RT: 6.806 min Scan# 1631
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 29 Feb 2024 4:23 am

Tgt Ion:142 Resp: 69855

Ion	Ratio	Lower	Upper
142	100		
141	90.1	69.6	104.4
115	31.4	26.6	40.0

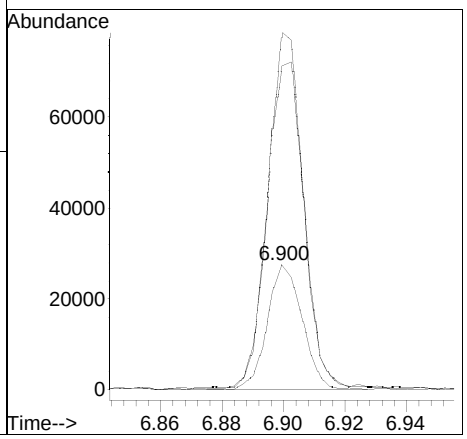


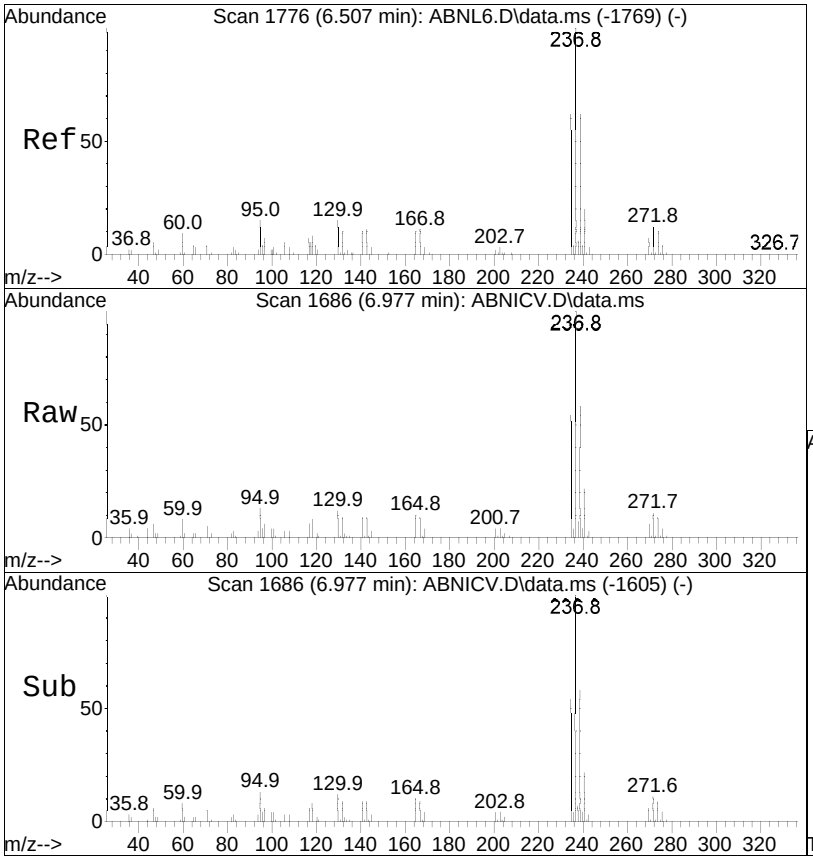


#40
1-Methylnaphthalene
Concen: 4.63 ug/ml
RT: 6.900 min Scan# 1661
Delta R.T. -0.003 min
Lab File: ABNICV.D
Acq: 29 Feb 2024 4:23 am

Tgt Ion:115 Resp: 21985

Ion	Ratio	Lower	Upper
115	100		
141	273.0	207.8	311.6
142	287.4	226.8	340.2

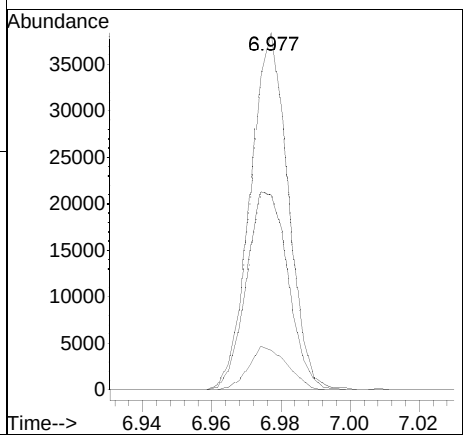


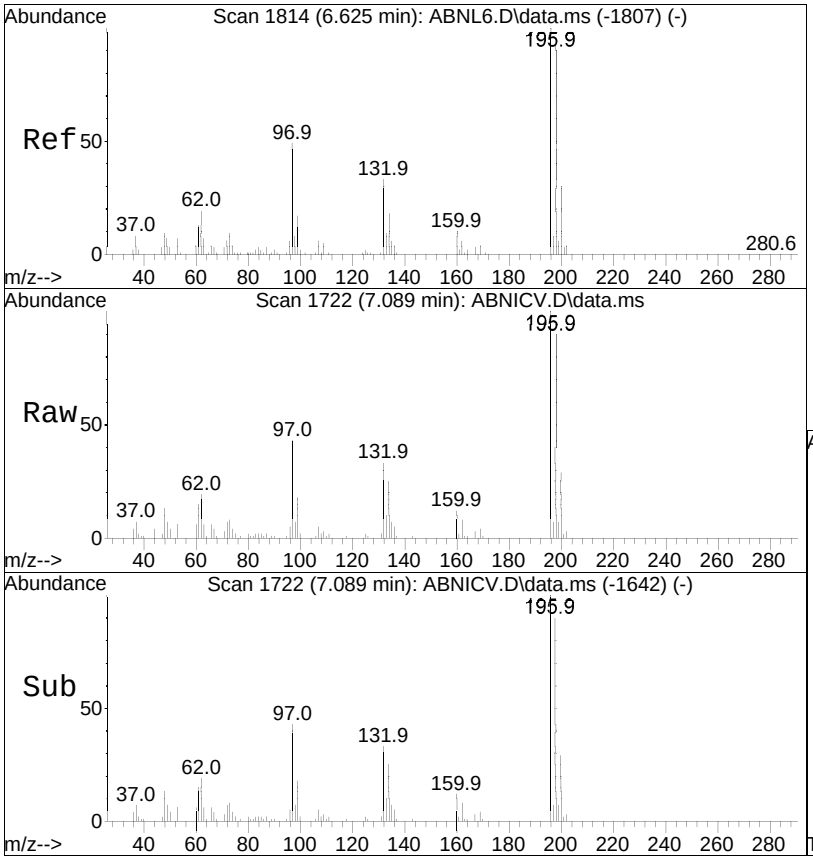


#41
Hexachlorocyclopentadiene
Concen: 5.96 ug/ml
RT: 6.977 min Scan# 1686
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 29 Feb 2024 4:23 am

Tgt Ion:237 Resp: 29112

Ion	Ratio	Lower	Upper
237	100		
235	61.1	49.7	74.5
272	12.5	9.8	14.6

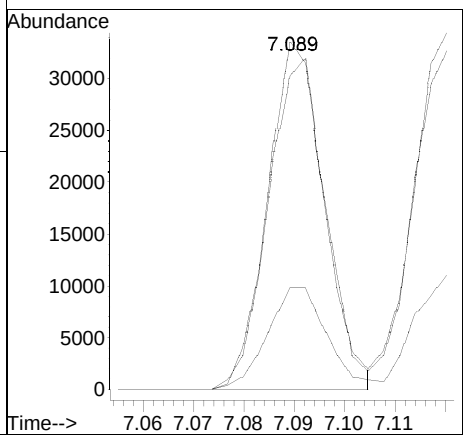


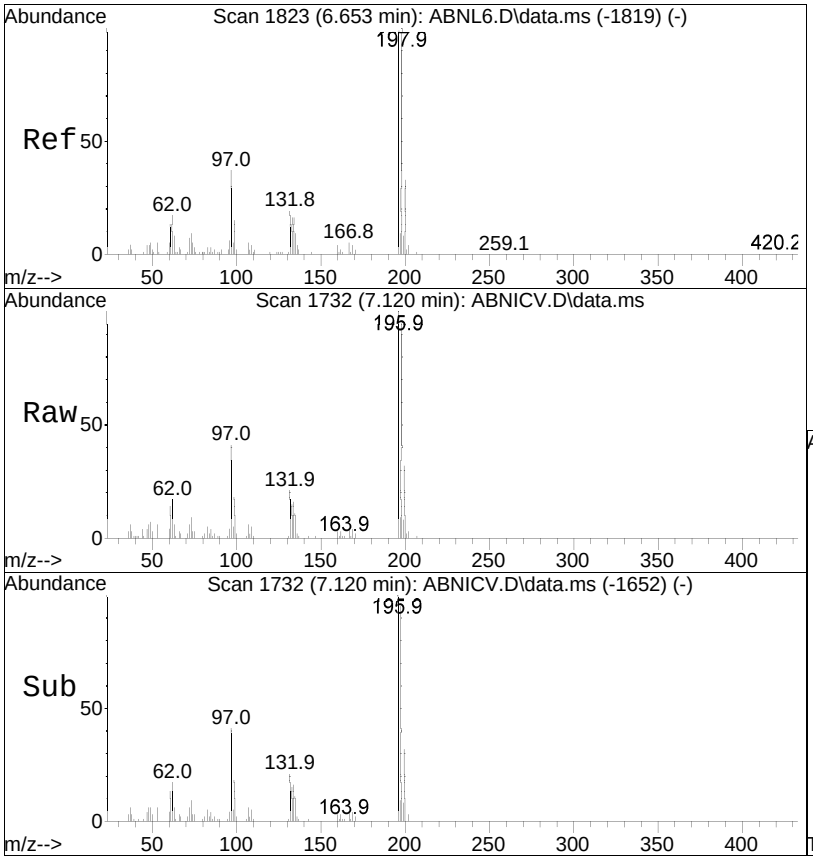


#42
2,4,6-Trichlorophenol
Concen: 4.53 ug/ml
RT: 7.089 min Scan# 1722
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 29 Feb 2024 4:23 am

Tgt Ion:196 Resp: 26169

Ion	Ratio	Lower	Upper
196	100		
198	97.2	77.5	116.3
200	31.4	23.8	35.6

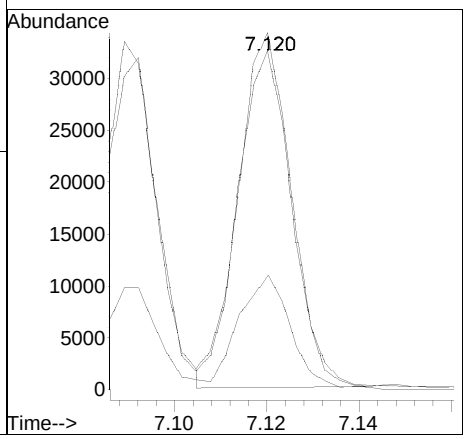


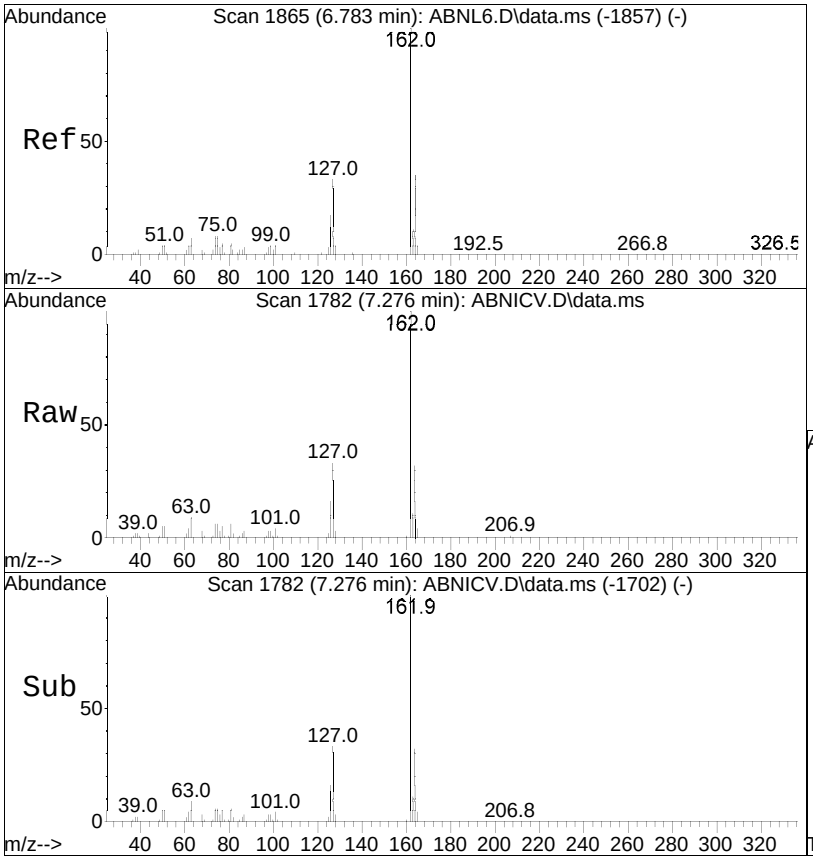


#43
2,4,5-Trichlorophenol
Concen: 4.33 ug/ml
RT: 7.120 min Scan# 1732
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 29 Feb 2024 4:23 am

Tgt Ion:196 Resp: 27351

Ion	Ratio	Lower	Upper
196	100		
200	31.6	25.4	38.0
198	99.5	78.0	117.0

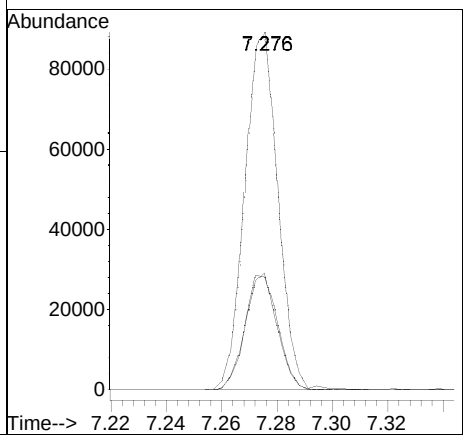


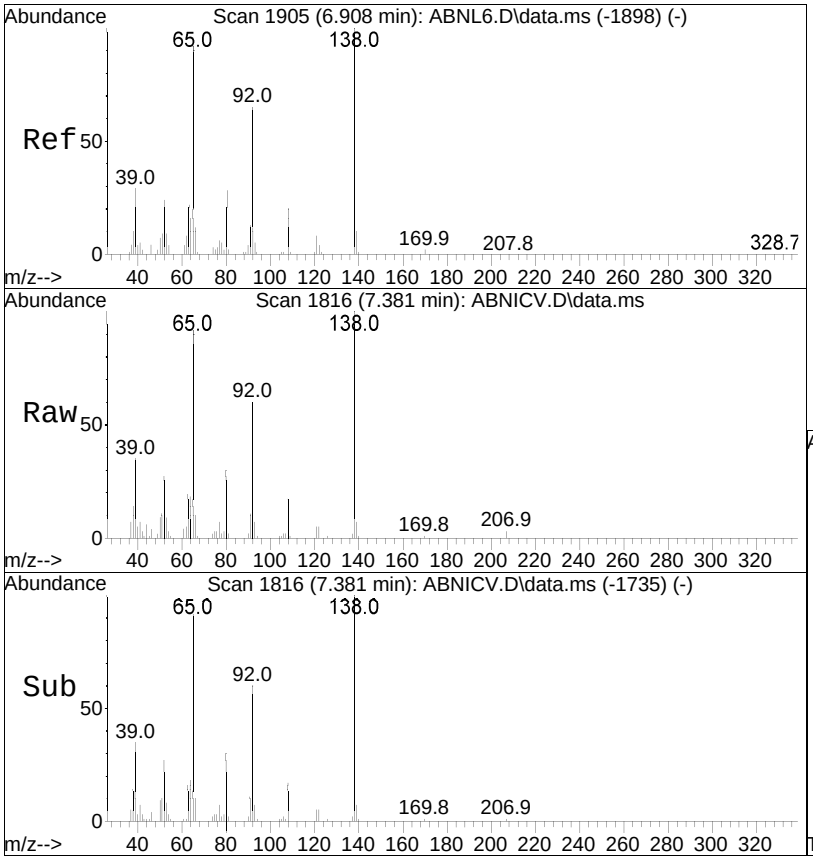


#45
2-Chloronaphthalene
Concen: 4.66 ug/ml
RT: 7.276 min Scan# 1782
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 29 Feb 2024 4:23 am

Tgt Ion:162 Resp: 73873

Ion	Ratio	Lower	Upper
162	100		
127	31.4	32.2	48.4#
164	32.3	25.7	38.5

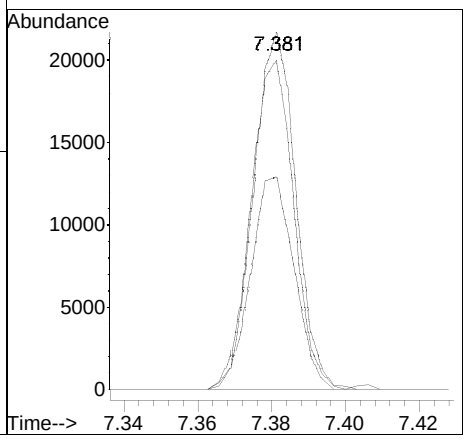


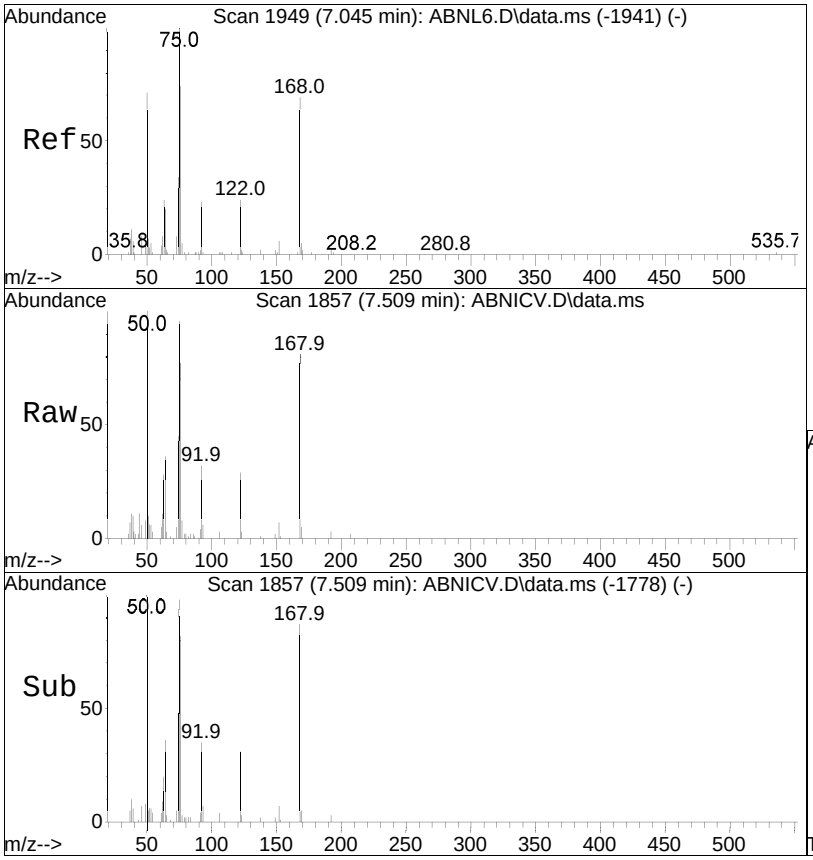


#46
2-Nitroaniline
Concen: 4.15 ug/ml
RT: 7.381 min Scan# 1816
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 29 Feb 2024 4:23 am

Tgt Ion:138 Resp: 17114

Ion	Ratio	Lower	Upper
138	100		
92	61.8	53.5	80.3
65	93.6	86.3	129.5

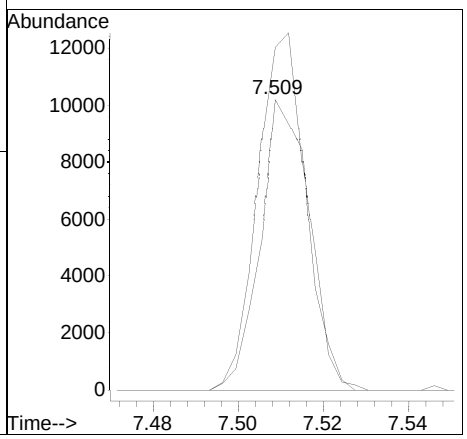


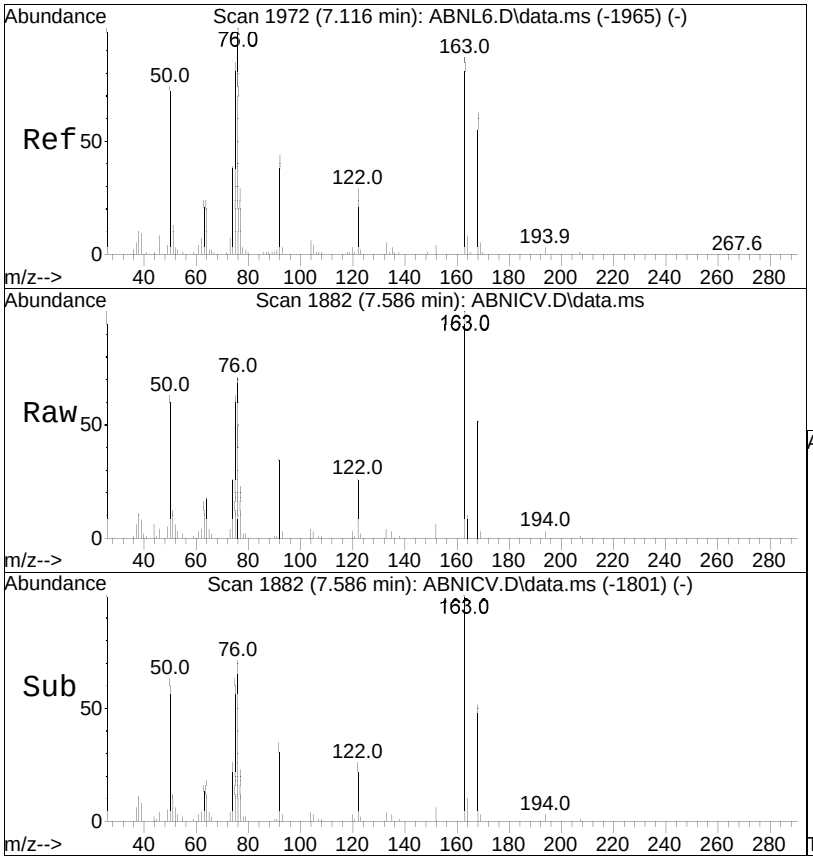


#47
1,4-Dinitrobenzene
Concen: 4.29 ug/ml
RT: 7.509 min Scan# 1857
Delta R.T. -0.003 min
Lab File: ABNICV.D
Acq: 29 Feb 2024 4:23 am

Tgt Ion:168 Resp: 7960

Ion	Ratio	Lower	Upper
168	100		
75	125.4	121.8	182.8

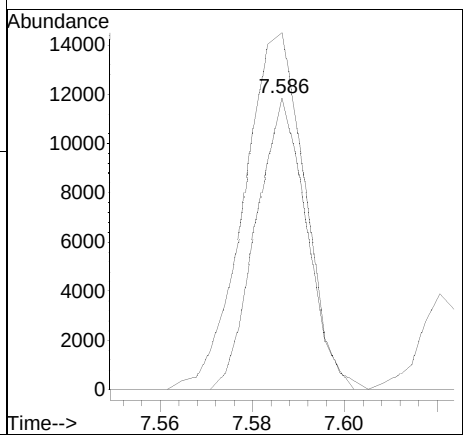


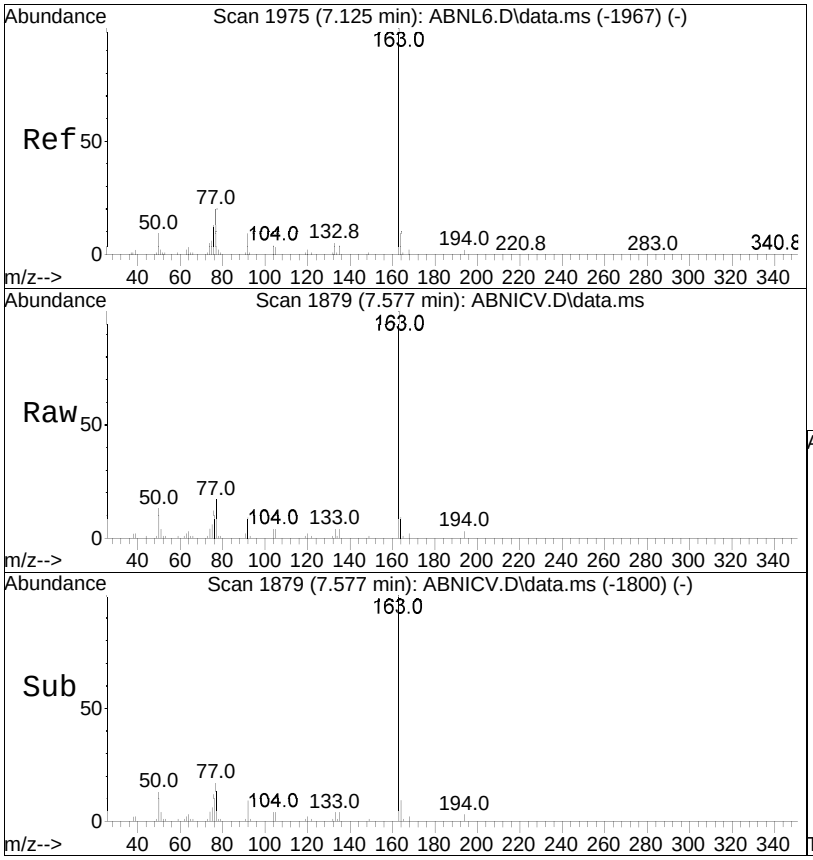


#48
1,3-Dinitrobenzene
Concen: 4.06 ug/ml
RT: 7.586 min Scan# 1882
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 29 Feb 2024 4:23 am

Tgt Ion:168 Resp: 8997

Ion	Ratio	Lower	Upper
168	100		
75	148.6	22.7	34.1#

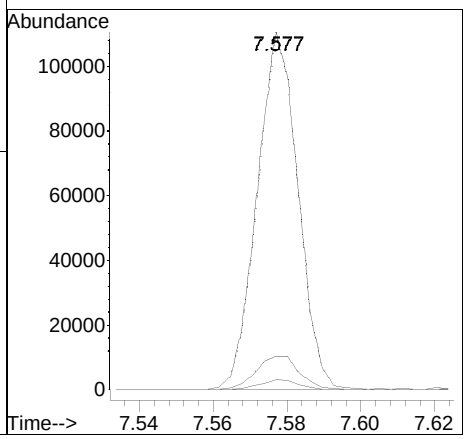


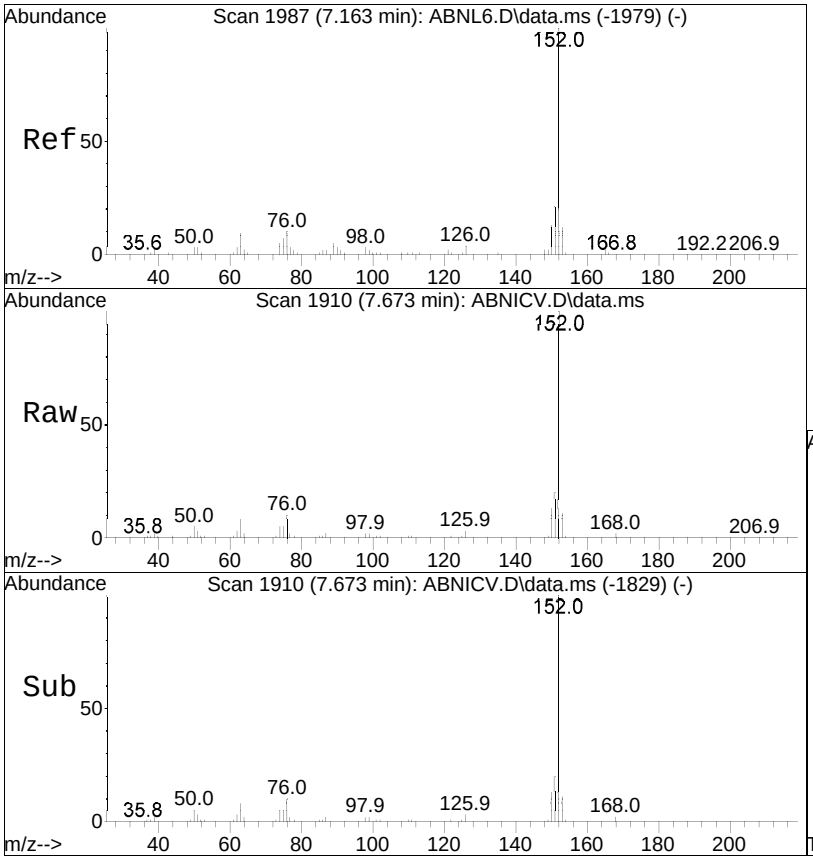


#49
Dimethyl phthalate
Concen: 4.68 ug/ml
RT: 7.577 min Scan# 1879
Delta R.T. -0.003 min
Lab File: ABNICV.D
Acq: 29 Feb 2024 4:23 am

Tgt Ion:163 Resp: 83779

Ion	Ratio	Lower	Upper
163	100		
194	2.4	3.5	5.3#
164	10.0	7.9	11.9

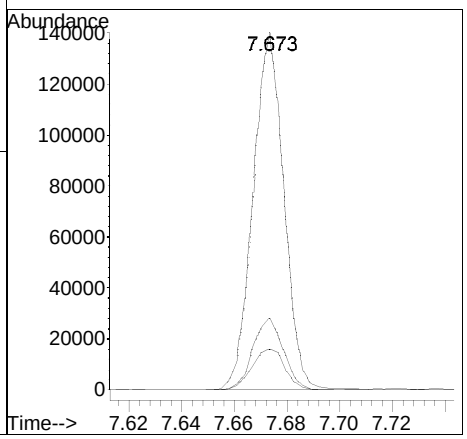


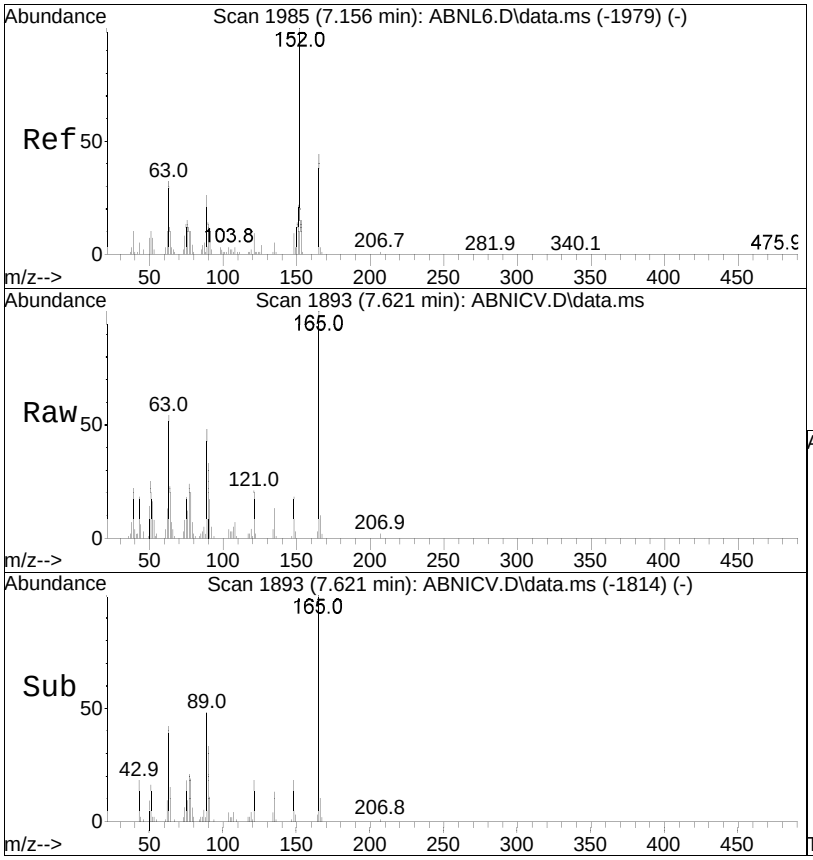


#50
Acenaphthylene
Concen: 4.70 ug/ml
RT: 7.673 min Scan# 1910
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 29 Feb 2024 4:23 am

Tgt Ion:152 Resp: 112618

Ion	Ratio	Lower	Upper
152	100		
151	20.1	15.8	23.6
153	12.4	10.5	15.7

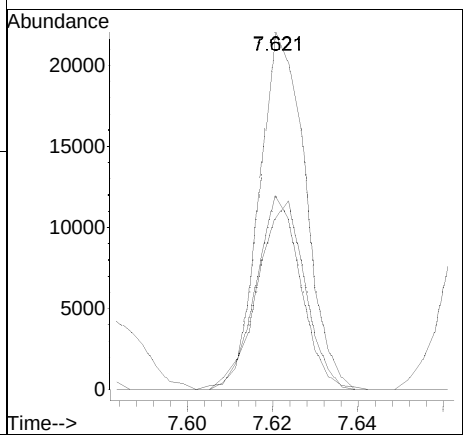


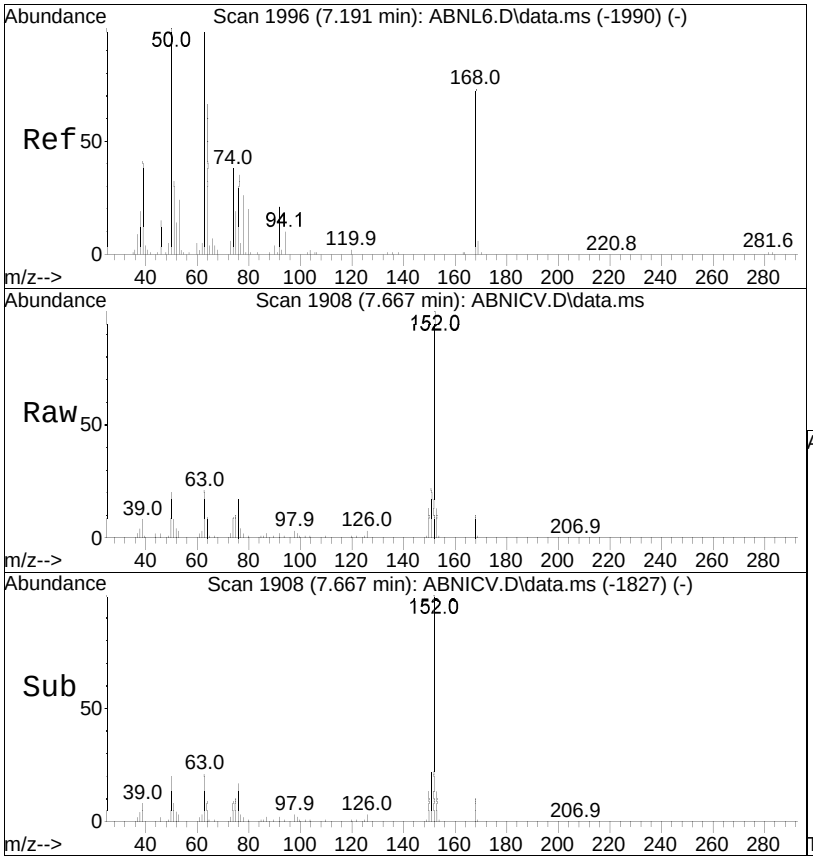


#51
2,6-Dinitrotoluene
Concen: 4.70 ug/ml
RT: 7.621 min Scan# 1893
Delta R.T. -0.003 min
Lab File: ABNICV.D
Acq: 29 Feb 2024 4:23 am

Tgt Ion:165 Resp: 16479

Ion	Ratio	Lower	Upper
165	100		
89	54.8	54.2	81.2
63	53.2	64.2	96.2#

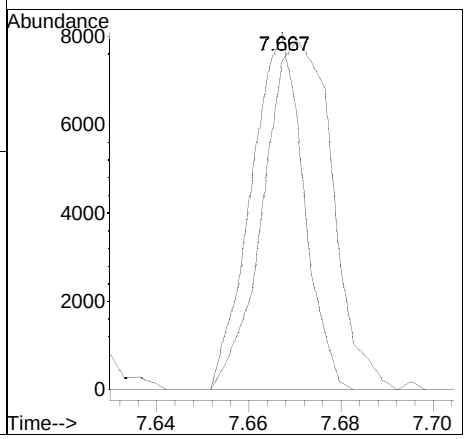


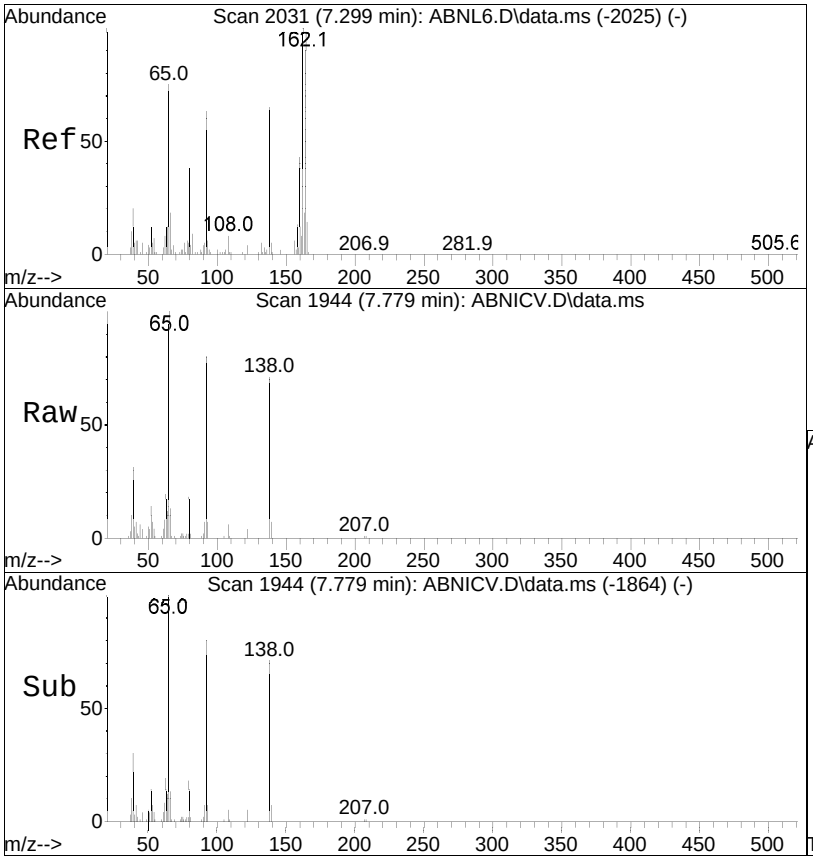


#52
1,2-Dinitrobenzene
Concen: 4.55 ug/ml
RT: 7.667 min Scan# 1908
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 29 Feb 2024 4:23 am

Tgt Ion:168 Resp: 6386

Ion	Ratio	Lower	Upper
168	100		
75	127.7	30.9	46.3#

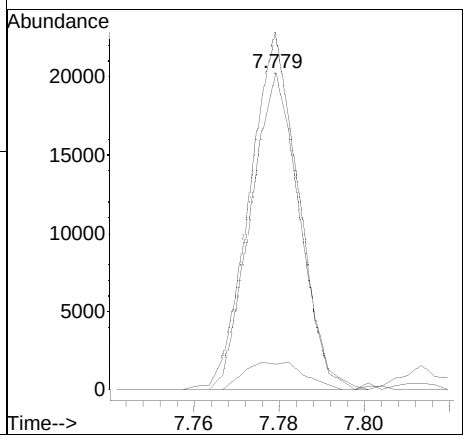


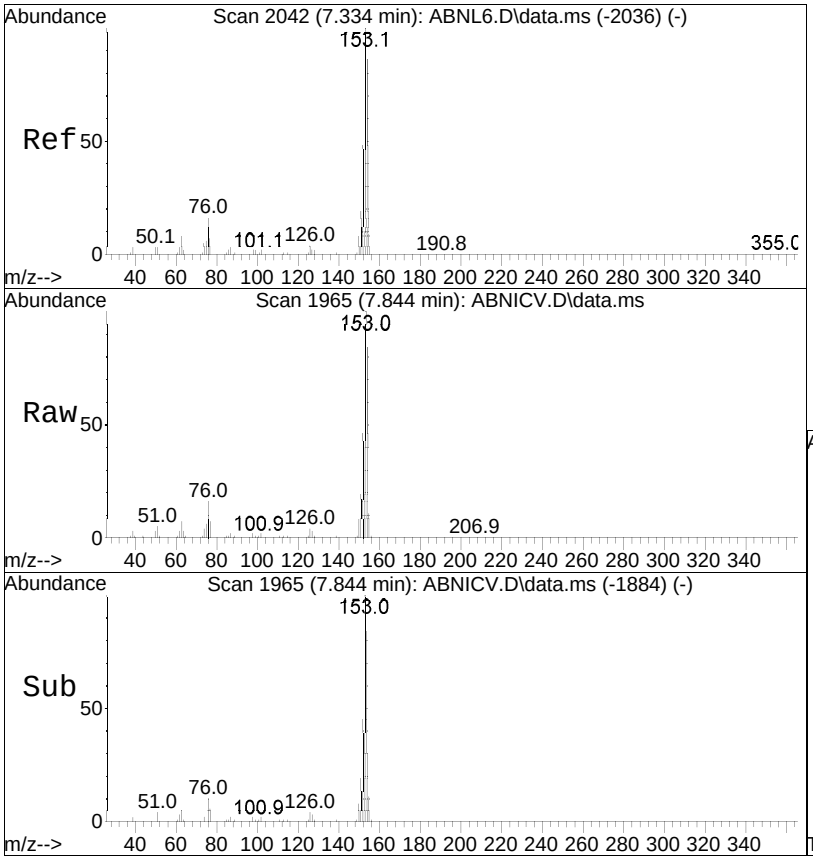


#62
3-Nitroaniline
Concen: 4.40 ug/ml
RT: 7.779 min Scan# 1944
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 29 Feb 2024 4:23 am

Tgt Ion:138 Resp: 16068

Ion	Ratio	Lower	Upper
138	100		
92	112.2	93.4	140.2
108	10.5	9.5	14.3

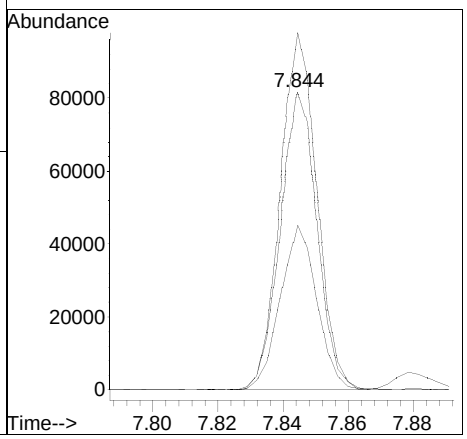


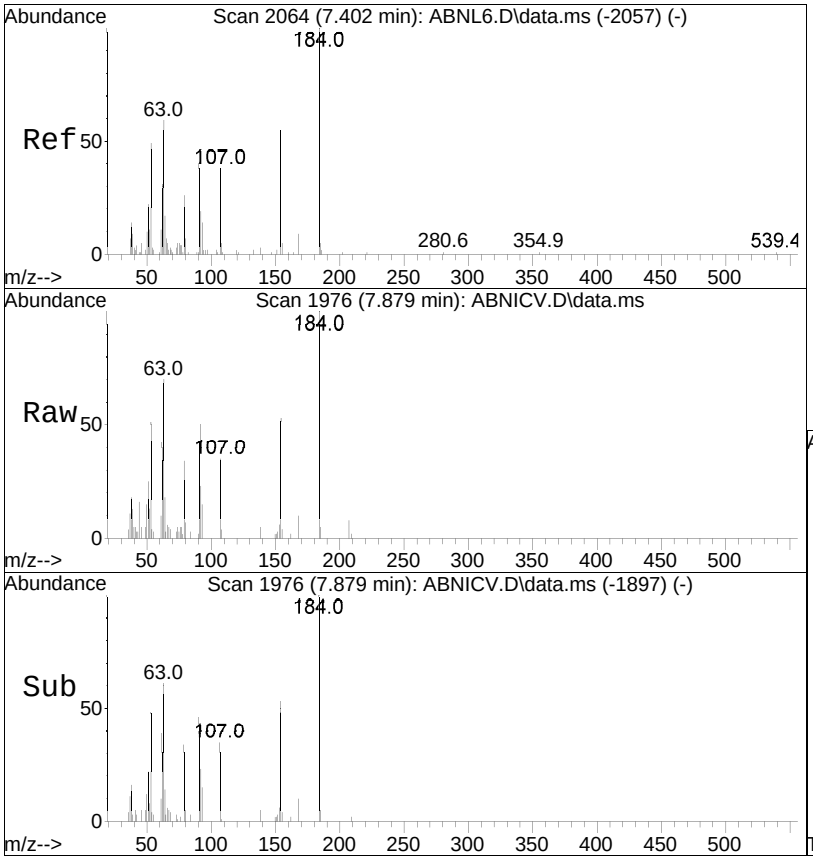


#63
Acenaphthene
Concen: 4.89 ug/ml
RT: 7.844 min Scan# 1965
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 29 Feb 2024 4:23 am

Tgt Ion:154 Resp: 63939

Ion	Ratio	Lower	Upper
154	100		
153	120.2	85.3	127.9
152	55.6	41.4	62.0

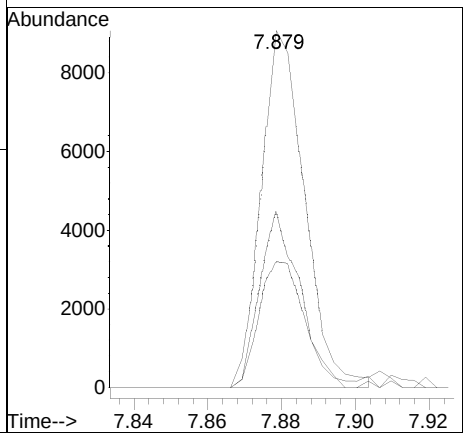


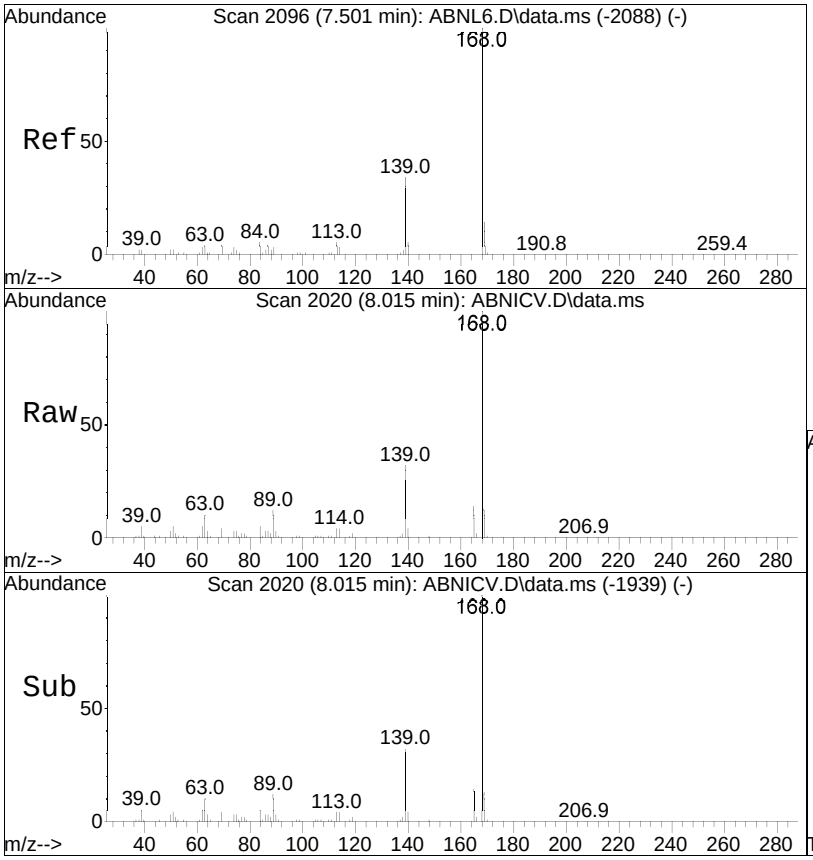


#64
2,4-Dinitrophenol
Concen: 3.96 ug/ml M4
RT: 7.879 min Scan# 1976
Delta R.T. -0.003 min
Lab File: ABNICV.D
Acq: 29 Feb 2024 4:23 am

Tgt Ion:184 Resp: 7373

Ion	Ratio	Lower	Upper
184	100		
107	37.4	37.7	56.5#
91	46.1	46.3	69.5#

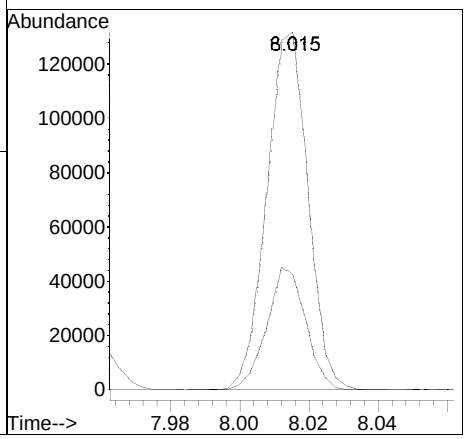


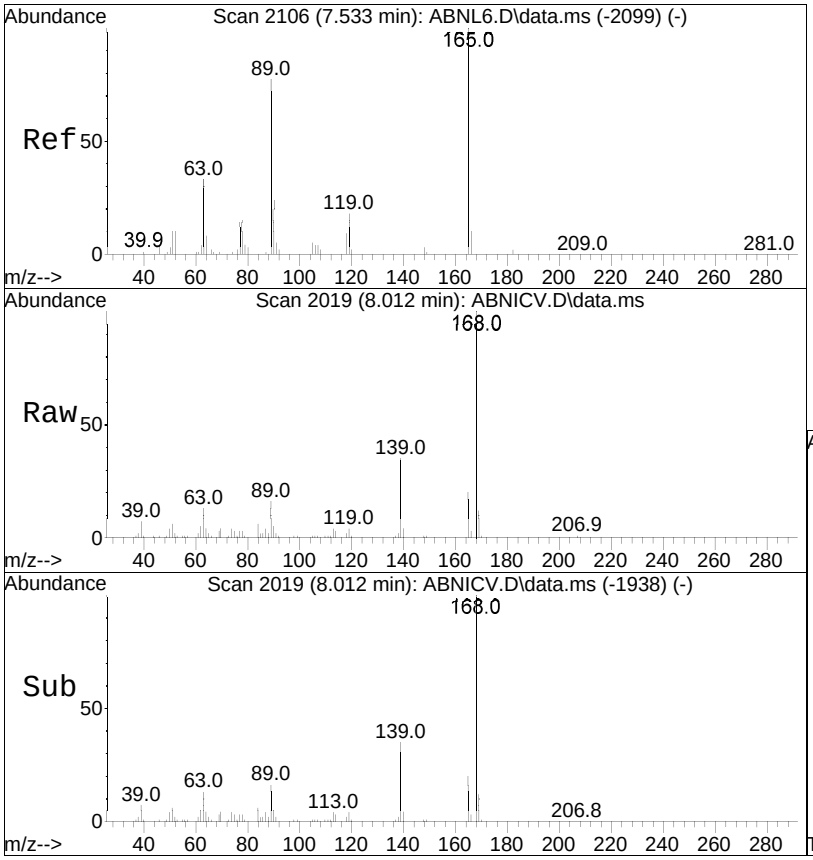


#65
Dibenzofuran
Concen: 4.78 ug/ml
RT: 8.015 min Scan# 2020
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 29 Feb 2024 4:23 am

Tgt Ion:168 Resp: 108070

Ion	Ratio	Lower	Upper
168	100		
139	32.6	31.4	47.2

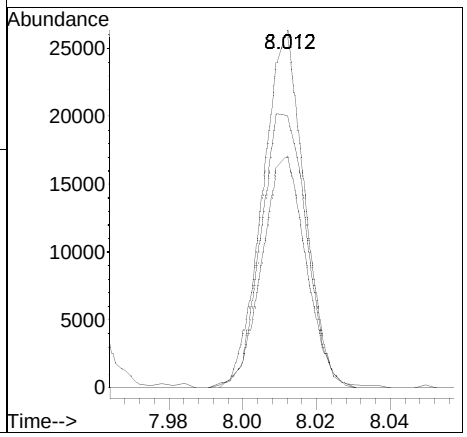


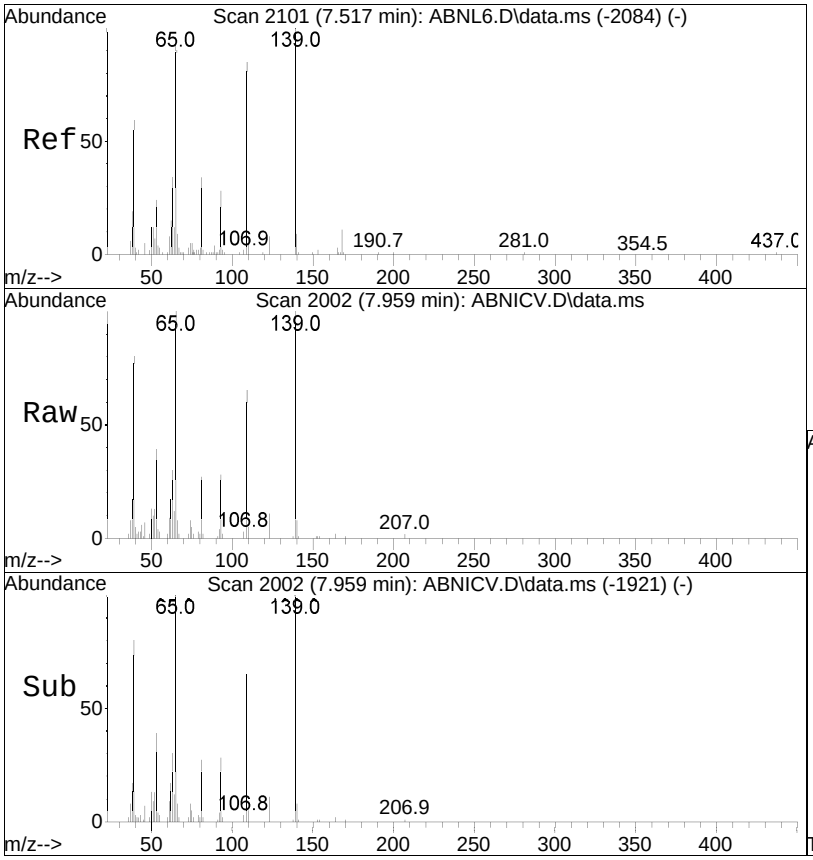


#66
2,4-Dinitrotoluene
Concen: 4.27 ug/ml
RT: 8.012 min Scan# 2019
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 29 Feb 2024 4:23 am

Tgt Ion:165 Resp: 20646

Ion	Ratio	Lower	Upper
165	100		
89	83.1	72.0	108.0
63	68.7	52.7	79.1

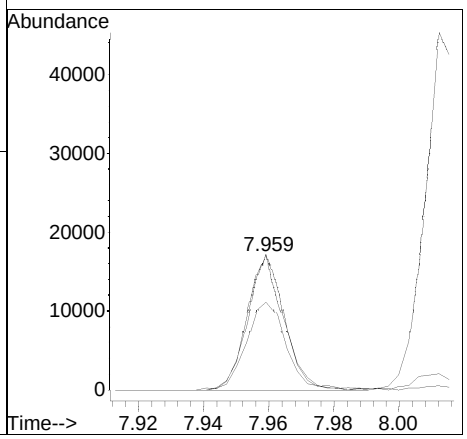


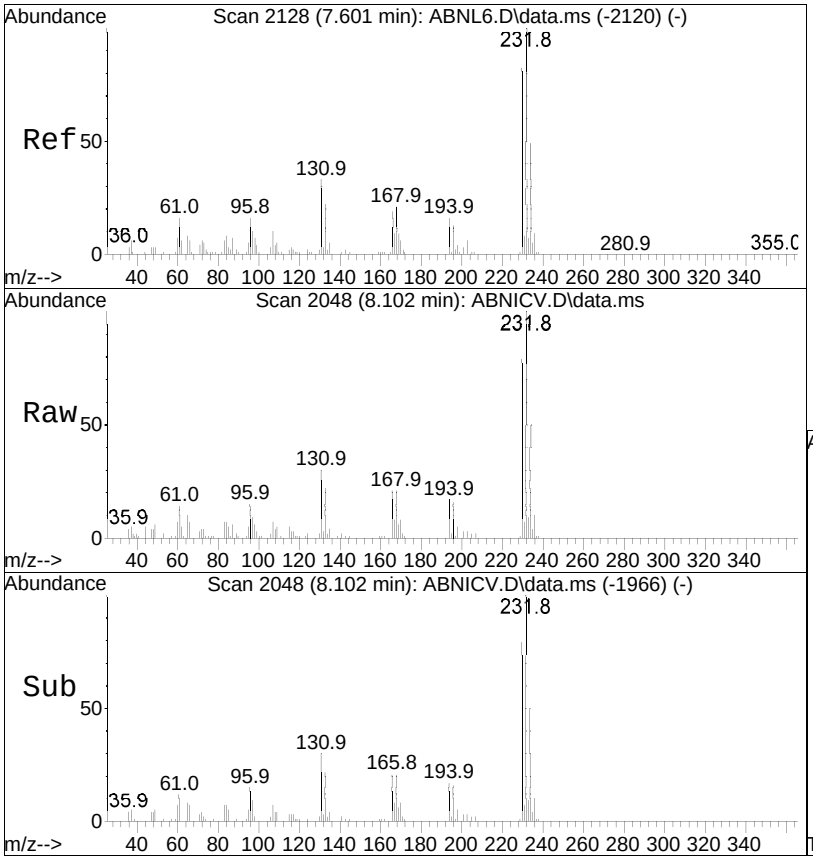


#67
4-Nitrophenol
Concen: 4.42 ug/ml
RT: 7.959 min Scan# 2002
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 29 Feb 2024 4:23 am

Tgt Ion: 65 Resp: 13327

Ion	Ratio	Lower	Upper
65	100		
109	69.9	47.4	71.2
139	100.0	76.6	115.0

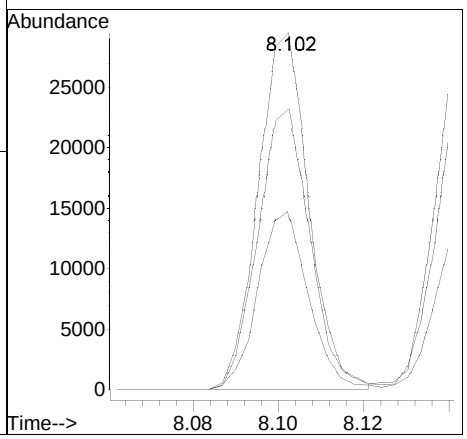


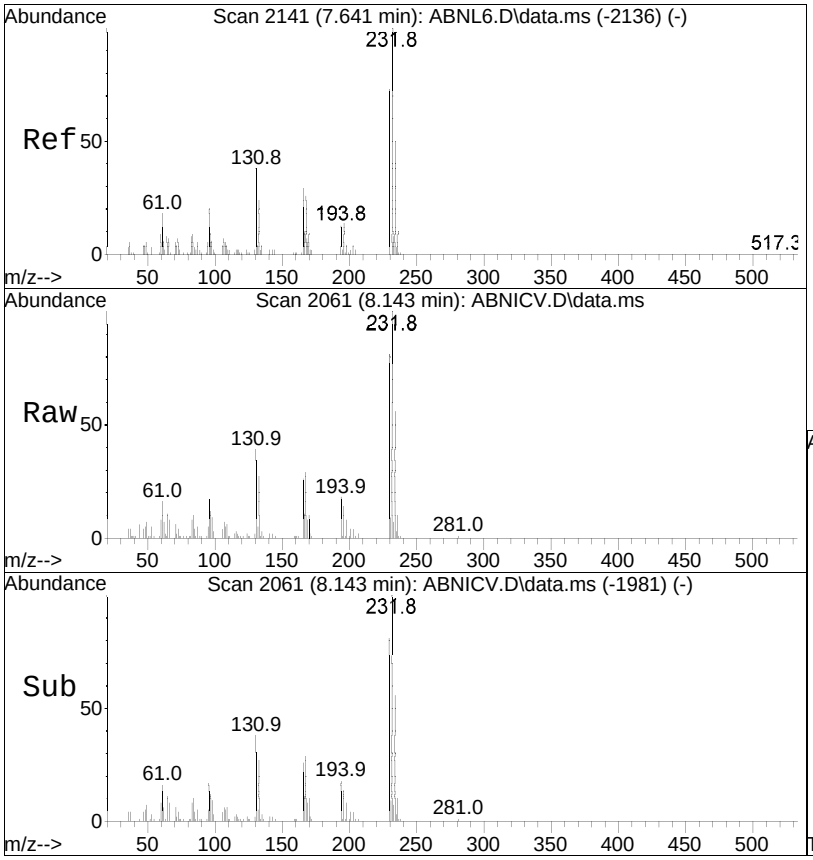


#68
2,3,5,6-Tetrachlorophenol
Concen: 4.61 ug/ml
RT: 8.102 min Scan# 2048
Delta R.T. 0.003 min
Lab File: ABNICV.D
Acq: 29 Feb 2024 4:23 am

Tgt Ion:232 Resp: 24473

Ion	Ratio	Lower	Upper
232	100		
230	80.9	64.2	96.4
234	49.8	38.1	57.1

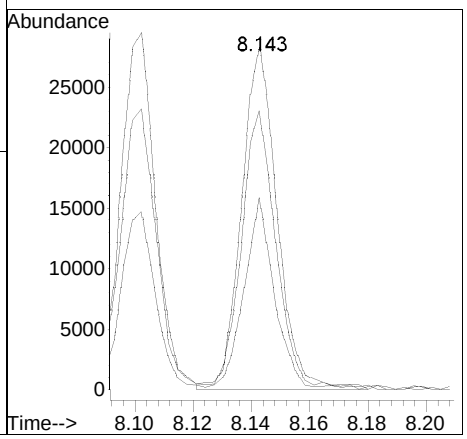


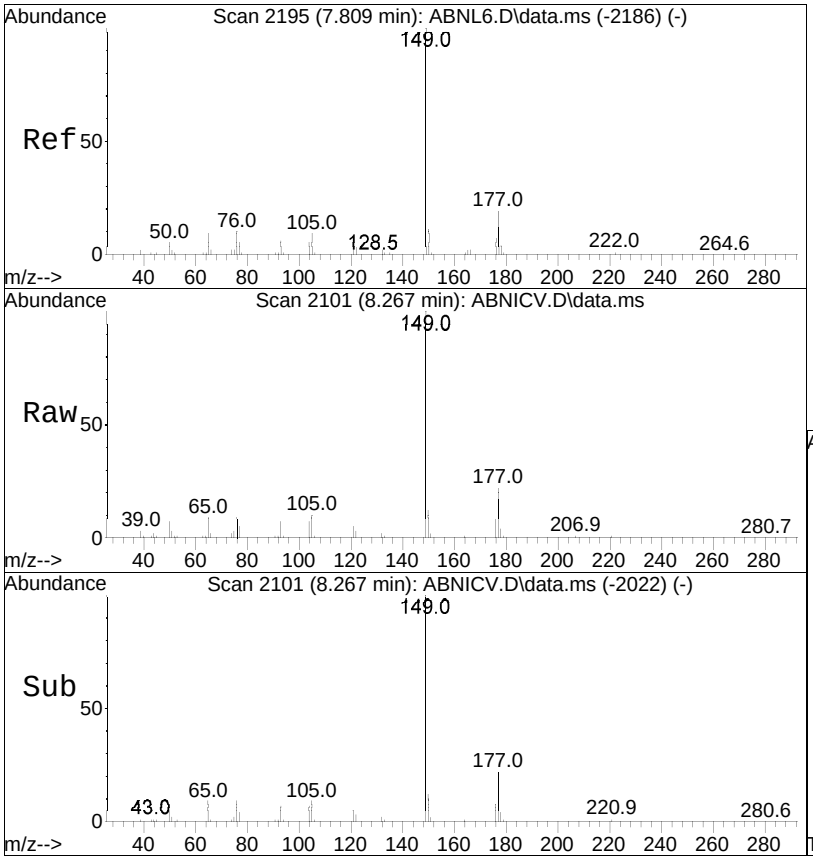


#69
2,3,4,6-Tetrachlorophenol
Concen: 4.74 ug/ml
RT: 8.143 min Scan# 2061
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 29 Feb 2024 4:23 am

Tgt Ion:232 Resp: 24094

Ion	Ratio	Lower	Upper
232	100		
230	77.3	61.8	92.8
234	46.5	36.2	54.2

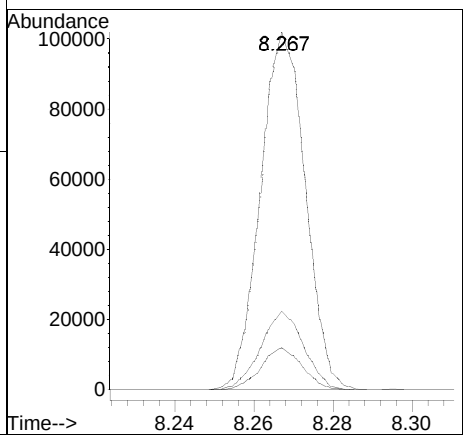


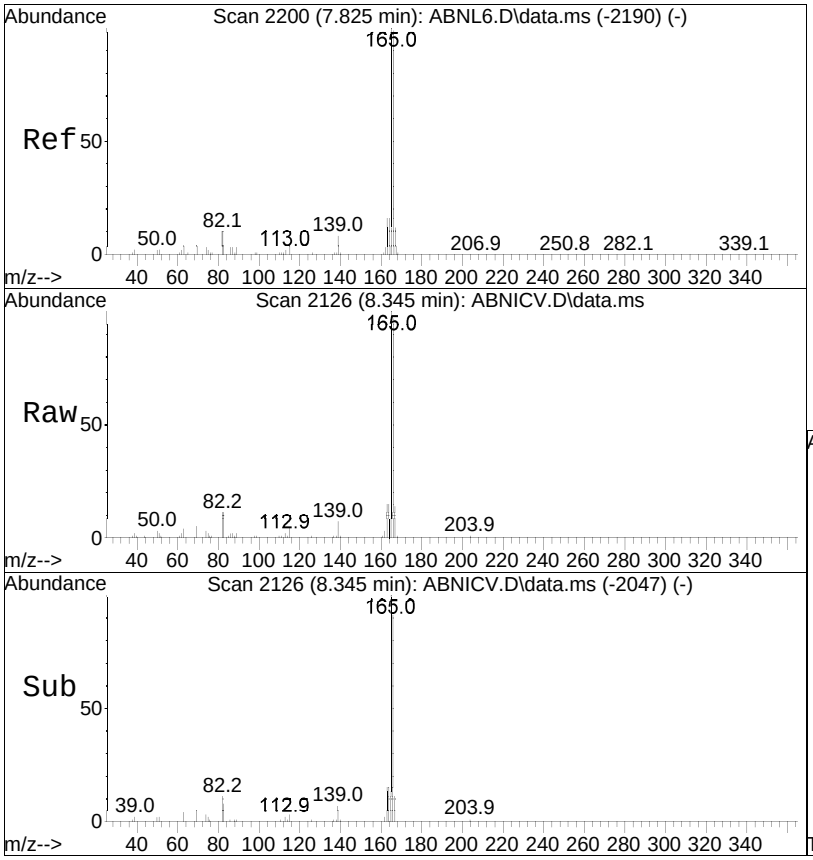


#70
Diethyl phthalate
Concen: 4.64 ug/ml
RT: 8.267 min Scan# 2101
Delta R.T. -0.003 min
Lab File: ABNICV.D
Acq: 29 Feb 2024 4:23 am

Tgt Ion:149 Resp: 79637

Ion	Ratio	Lower	Upper
149	100		
177	21.2	16.1	24.1
150	11.0	9.4	14.2

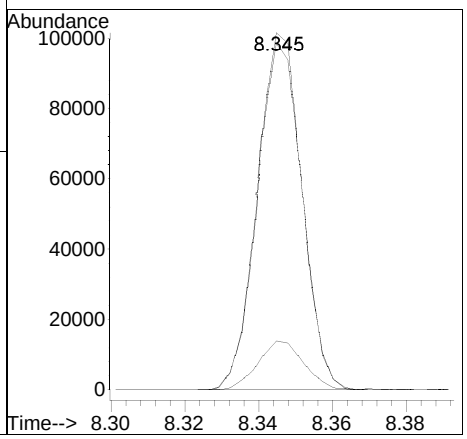


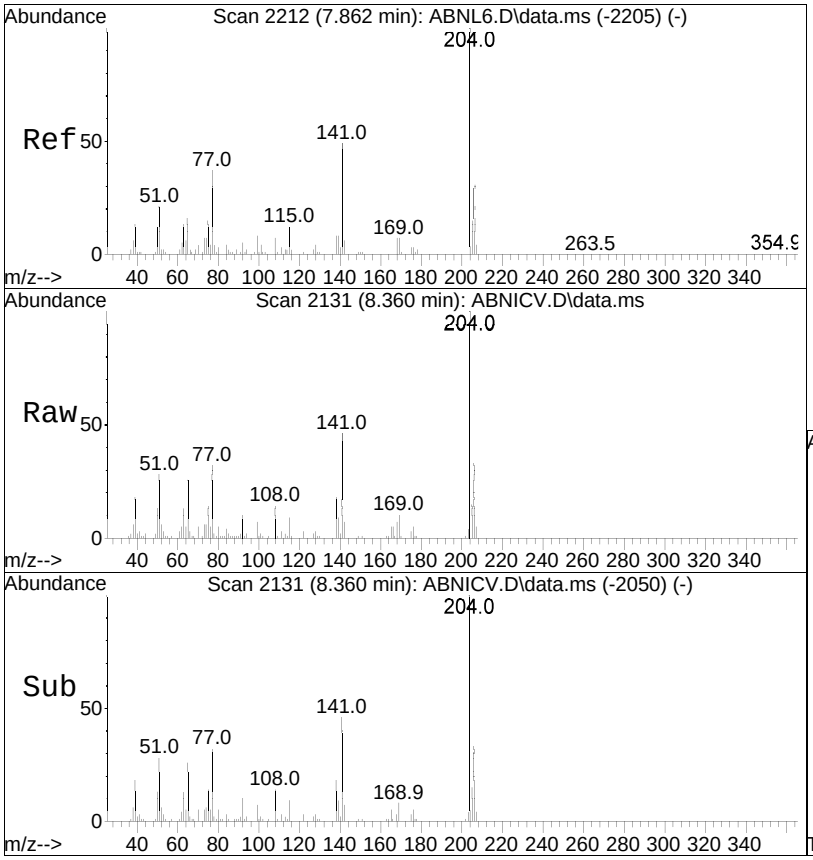


#71
Fluorene
Concen: 4.80 ug/ml
RT: 8.345 min Scan# 2126
Delta R.T. -0.003 min
Lab File: ABNICV.D
Acq: 29 Feb 2024 4:23 am

Tgt Ion:166 Resp: 83025

Ion	Ratio	Lower	Upper
166	100		
165	103.1	76.2	114.2
167	14.7	10.6	15.8

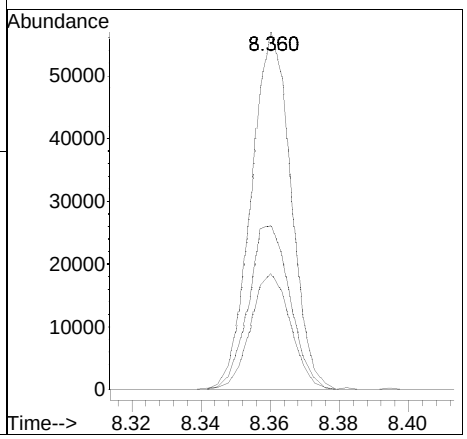


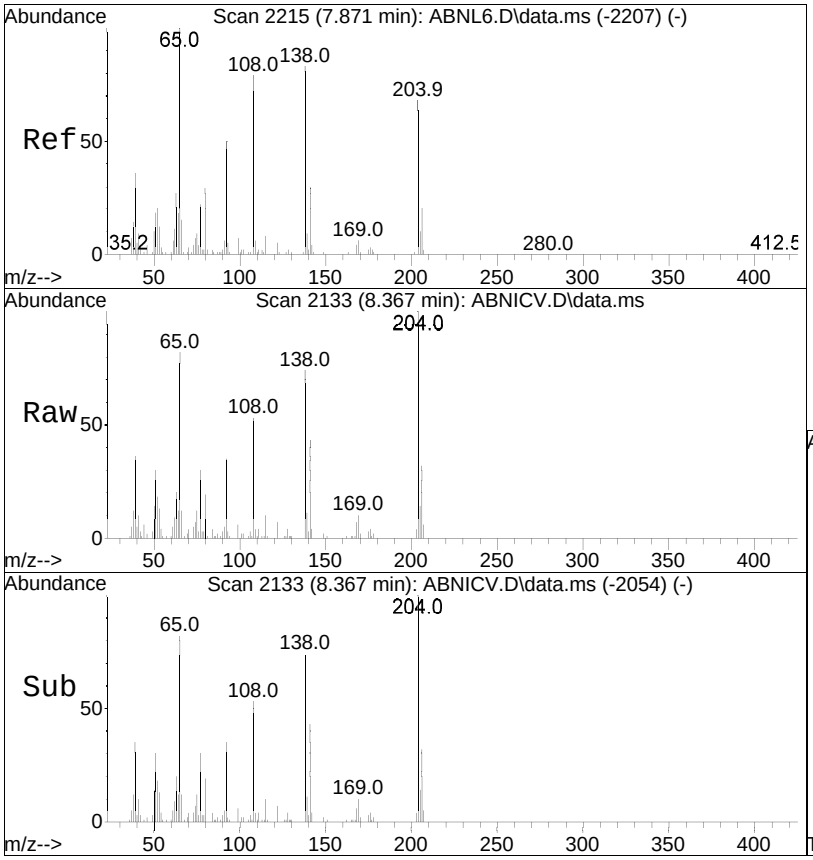


#72
4-Chlorophenyl phenyl ether
Concen: 4.95 ug/ml
RT: 8.360 min Scan# 2131
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 29 Feb 2024 4:23 am

Tgt Ion:204 Resp: 45249

Ion	Ratio	Lower	Upper
204	100		
206	32.7	25.8	38.6
141	48.0	53.6	80.4#

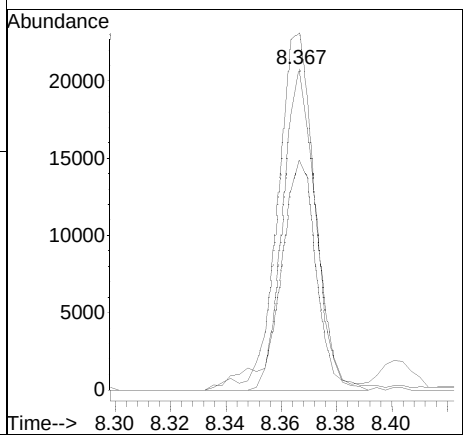


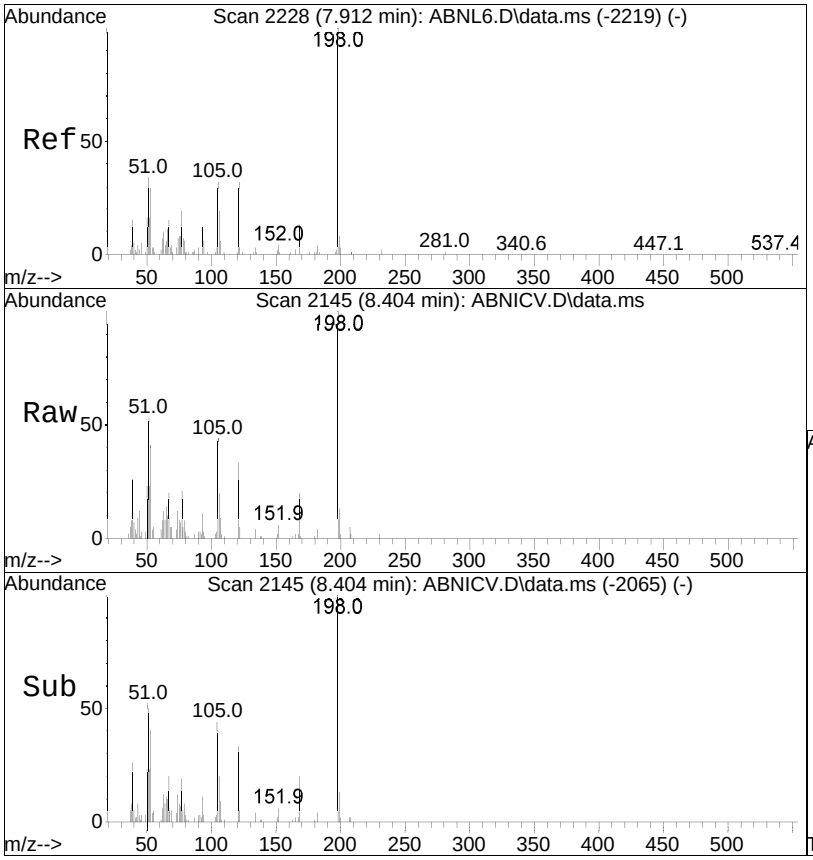


#73
4-Nitroaniline
Concen: 4.91 ug/ml
RT: 8.367 min Scan# 2133
Delta R.T. -0.003 min
Lab File: ABNICV.D
Acq: 29 Feb 2024 4:23 am

Tgt Ion:138 Resp: 17767

Ion	Ratio	Lower	Upper
138	100		
108	72.1	52.1	78.1
65	120.5	115.0	172.6

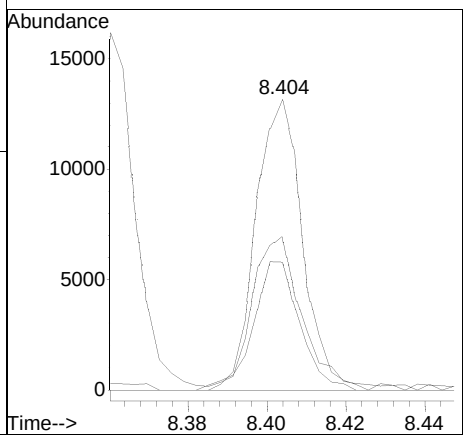


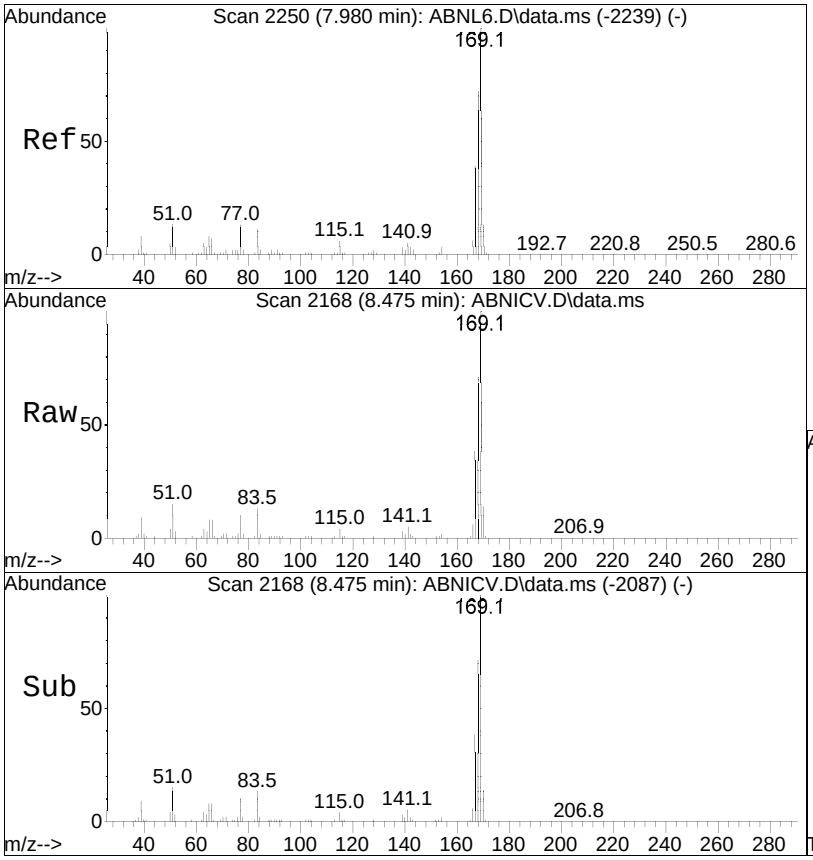


#74
4,6-Dinitro-o-cresol
Concen: 4.01 ug/ml
RT: 8.404 min Scan# 2145
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 29 Feb 2024 4:23 am

Tgt Ion:198 Resp: 10740

Ion	Ratio	Lower	Upper
198	100		
51	57.2	76.0	114.0#
105	44.2	45.6	68.4#

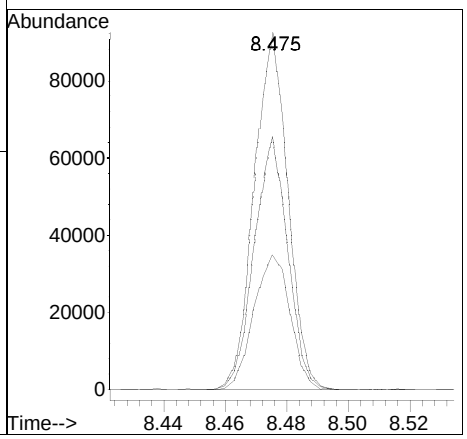


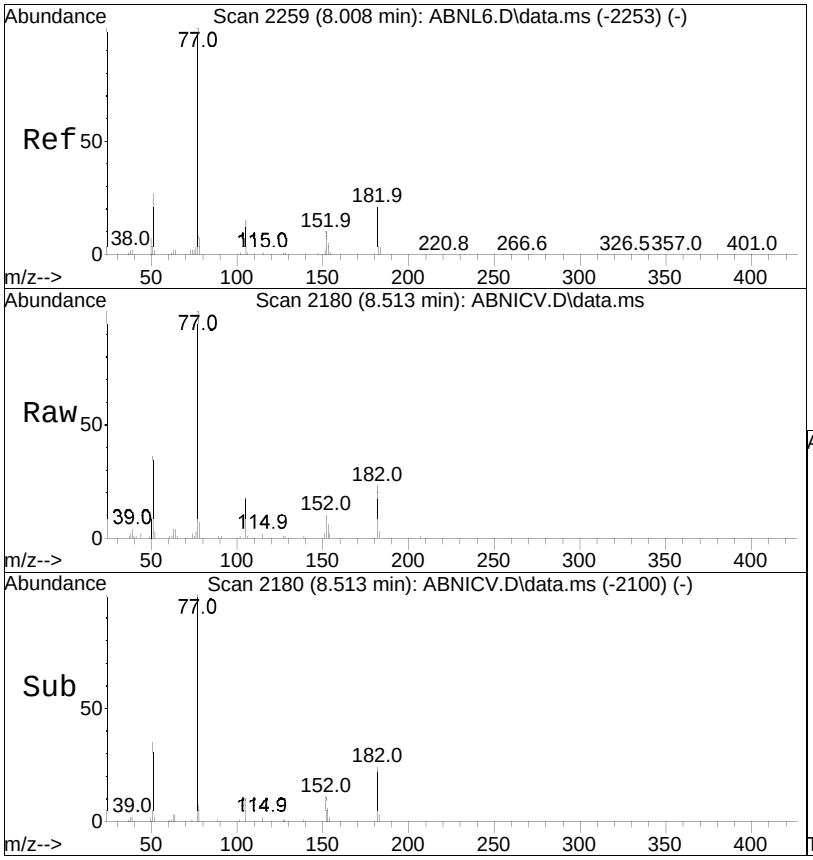


#75
NDPA/DPA
Concen: 4.91 ug/ml
RT: 8.475 min Scan# 2168
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 29 Feb 2024 4:23 am

Tgt Ion:169 Resp: 70292

Ion	Ratio	Lower	Upper
169	100		
168	70.8	54.0	81.0
167	40.9	28.6	42.8

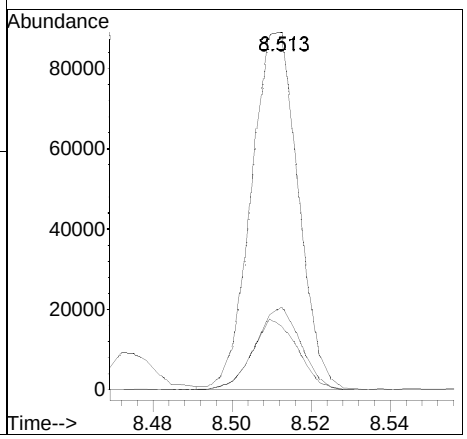


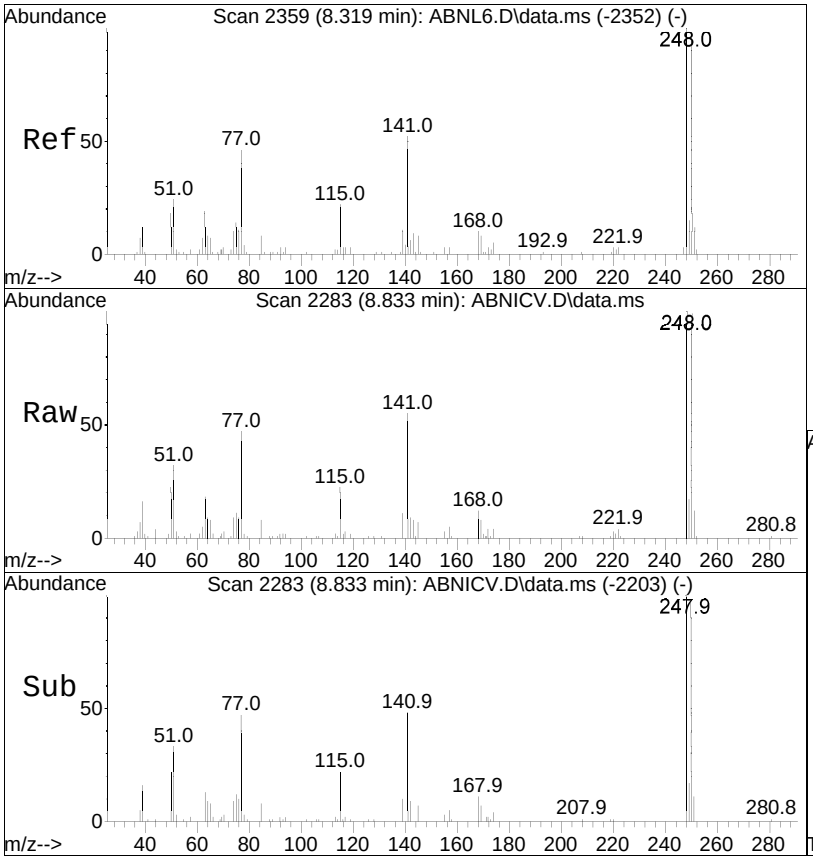


#76
Azobenzene
Concen: 4.79 ug/ml
RT: 8.513 min Scan# 2180
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 29 Feb 2024 4:23 am

Tgt Ion: 77 Resp: 72843

Ion	Ratio	Lower	Upper
77	100		
182	22.4	17.4	26.2
105	19.3	15.4	23.2

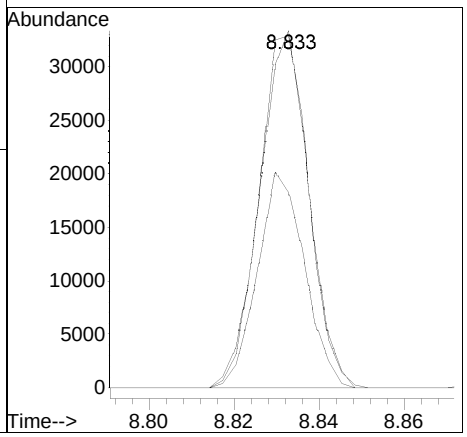


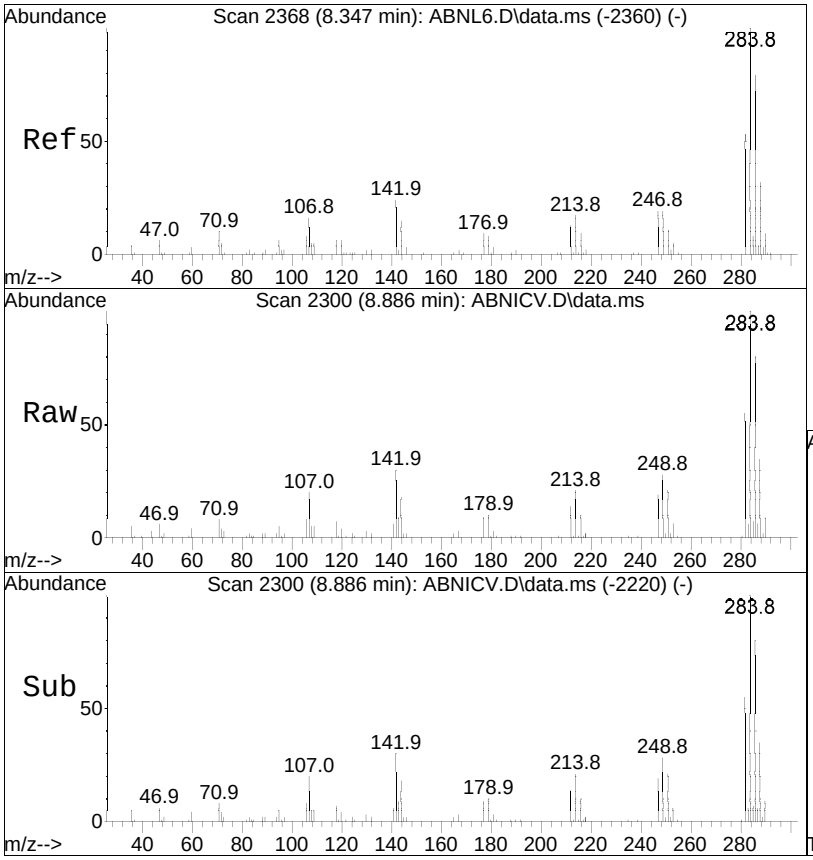


#78
4-Bromophenyl phenyl ether
Concen: 4.57 ug/ml
RT: 8.833 min Scan# 2283
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 29 Feb 2024 4:23 am

Tgt Ion:248 Resp: 26625

Ion	Ratio	Lower	Upper
248	100		
141	58.2	76.6	114.8#
250	100.6	77.3	115.9

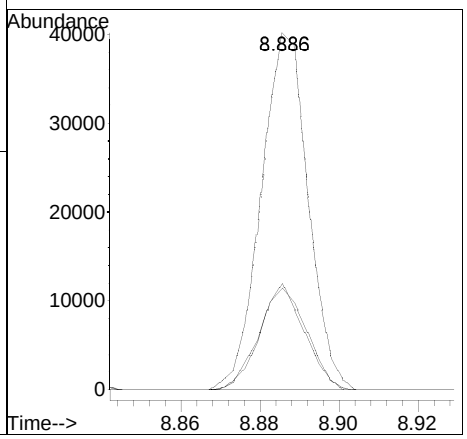


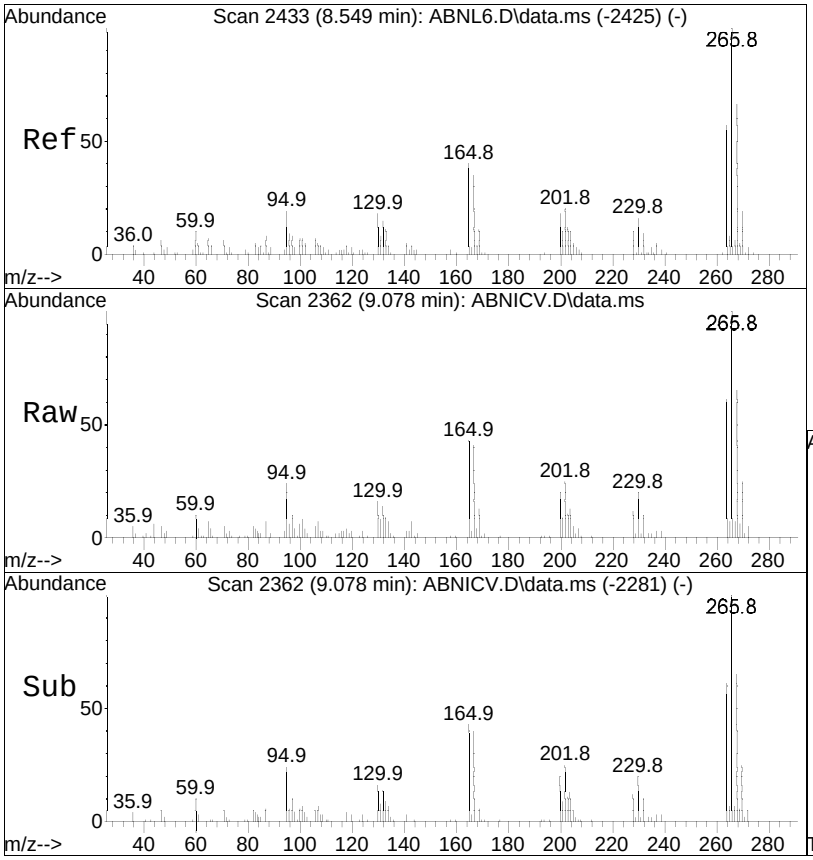


#79
Hexachlorobenzene
Concen: 4.63 ug/ml
RT: 8.886 min Scan# 2300
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 29 Feb 2024 4:23 am

Tgt Ion:284 Resp: 33028

Ion	Ratio	Lower	Upper
284	100		
142	28.2	41.9	62.9#
249	29.5	24.1	36.1

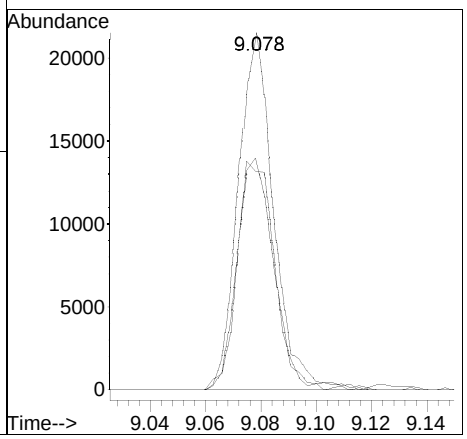


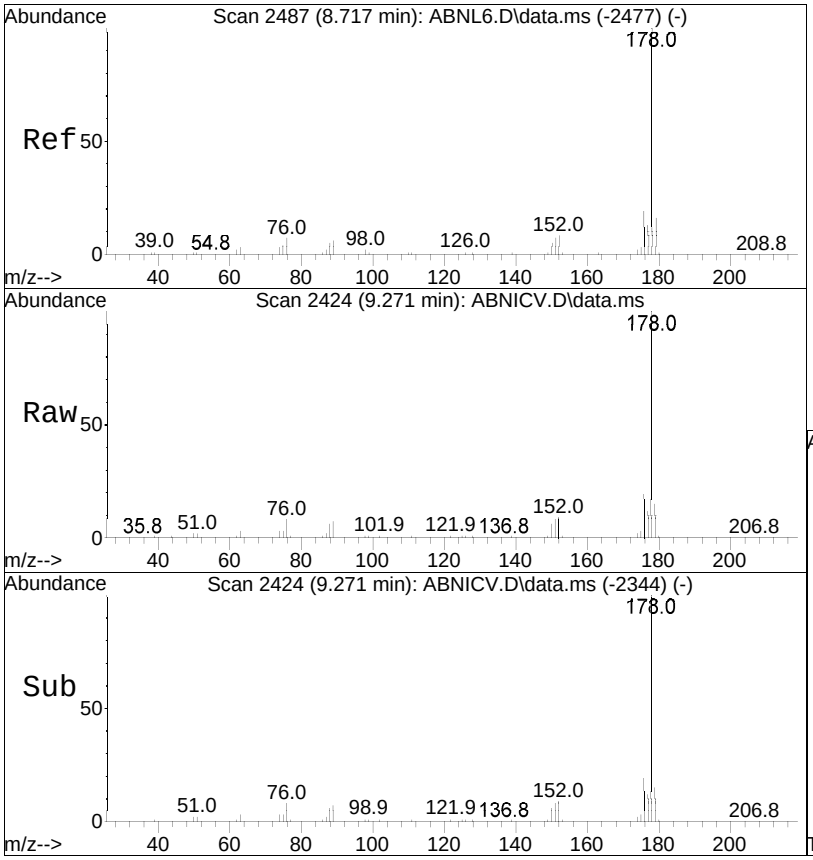


#80
Pentachlorophenol
Concen: 4.03 ug/ml
RT: 9.078 min Scan# 2362
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 29 Feb 2024 4:23 am

Tgt Ion:266 Resp: 19118

Ion	Ratio	Lower	Upper
266	100		
264	68.0	49.7	74.5
268	66.5	50.5	75.7

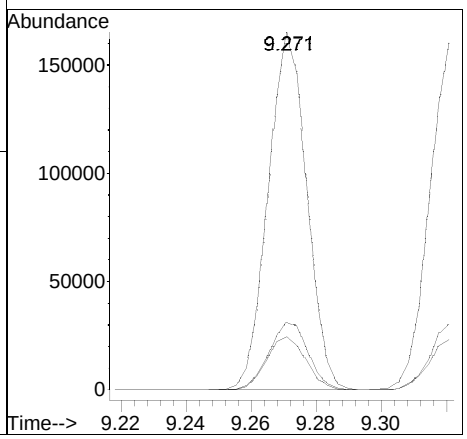


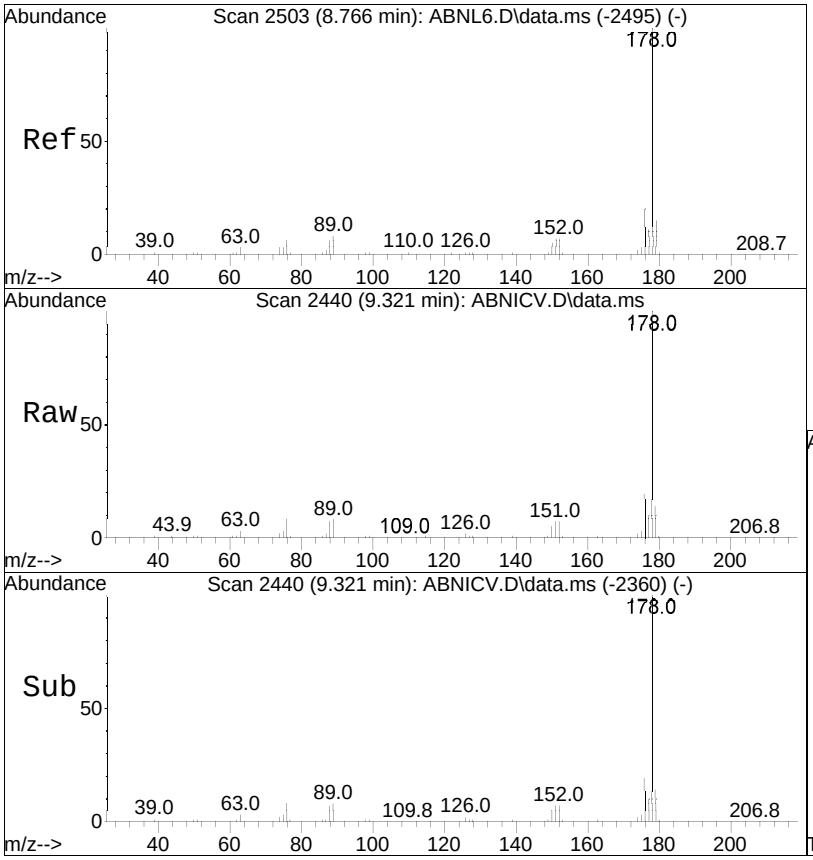


#86
Phenanthrene
Concen: 4.80 ug/ml
RT: 9.271 min Scan# 2424
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 29 Feb 2024 4:23 am

Tgt Ion:178 Resp: 135636

Ion	Ratio	Lower	Upper
178	100		
179	15.1	12.2	18.2
176	19.3	15.4	23.2

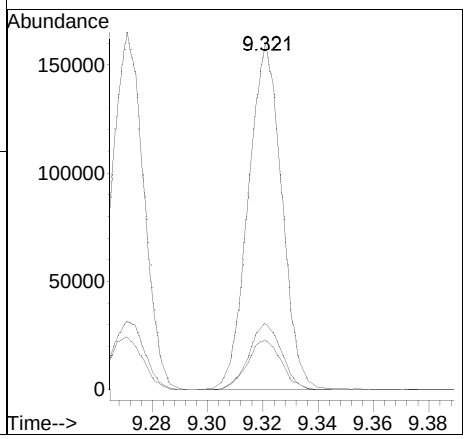


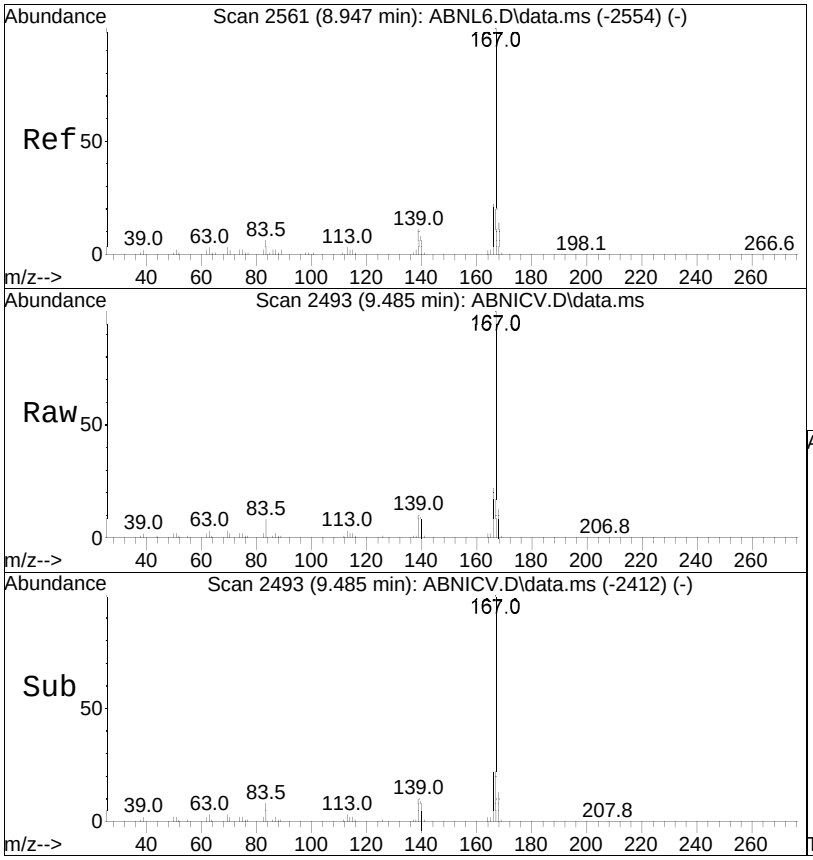


#87
Anthracene
Concen: 4.82 ug/ml
RT: 9.321 min Scan# 2440
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 29 Feb 2024 4:23 am

Tgt Ion:178 Resp: 134794

Ion	Ratio	Lower	Upper
178	100		
179	14.6	12.0	18.0
176	18.7	14.6	22.0

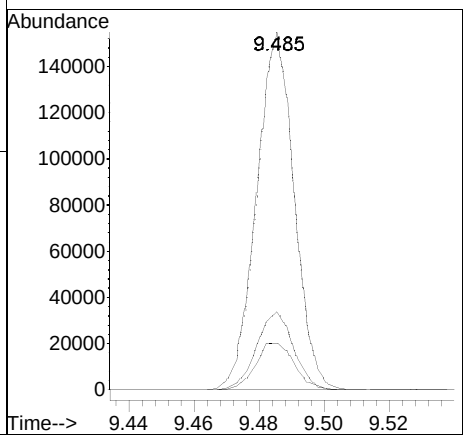


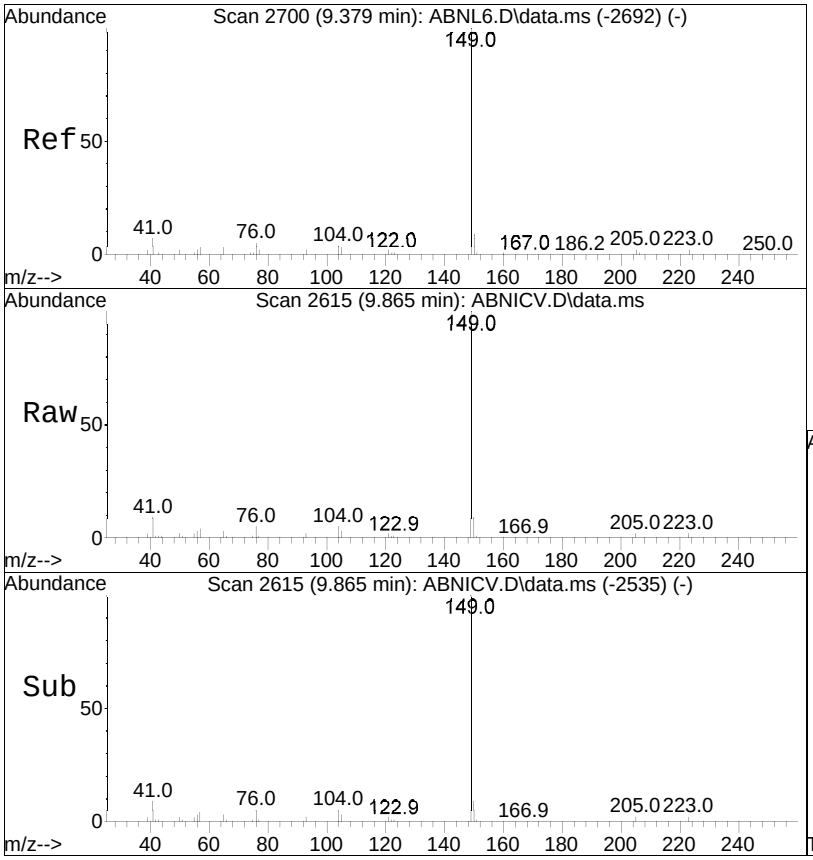


#88
Carbazole
Concen: 4.66 ug/ml
RT: 9.485 min Scan# 2493
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 29 Feb 2024 4:23 am

Tgt Ion:167 Resp: 122834

Ion	Ratio	Lower	Upper
167	100		
168	13.6	10.6	15.8
166	21.6	17.4	26.0

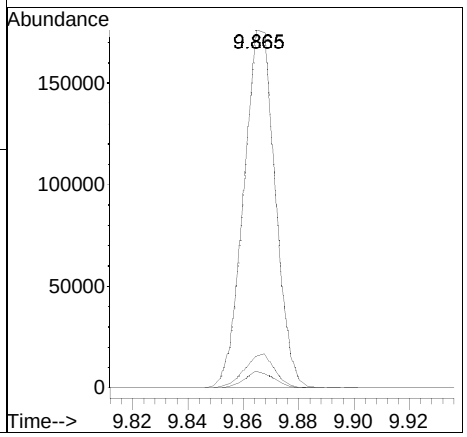


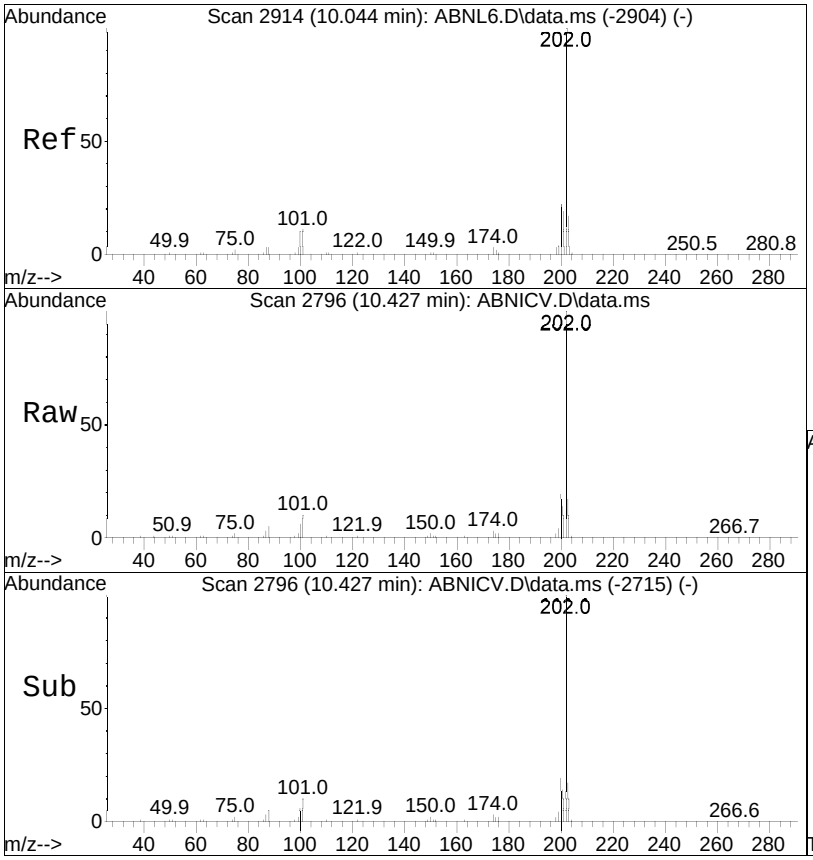


#89
Di-n-butylphthalate
Concen: 4.72 ug/ml
RT: 9.865 min Scan# 2615
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 29 Feb 2024 4:23 am

Tgt Ion:149 Resp: 138047

Ion	Ratio	Lower	Upper
149	100		
150	9.1	7.0	10.6
104	4.3	4.5	6.7#

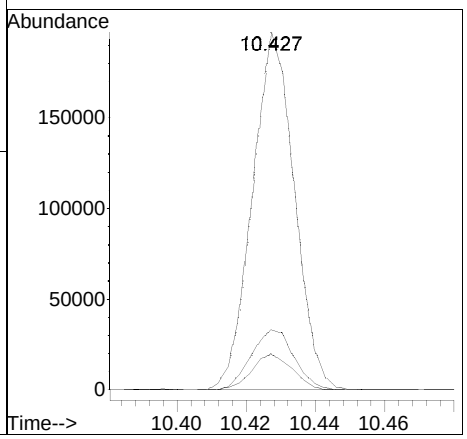


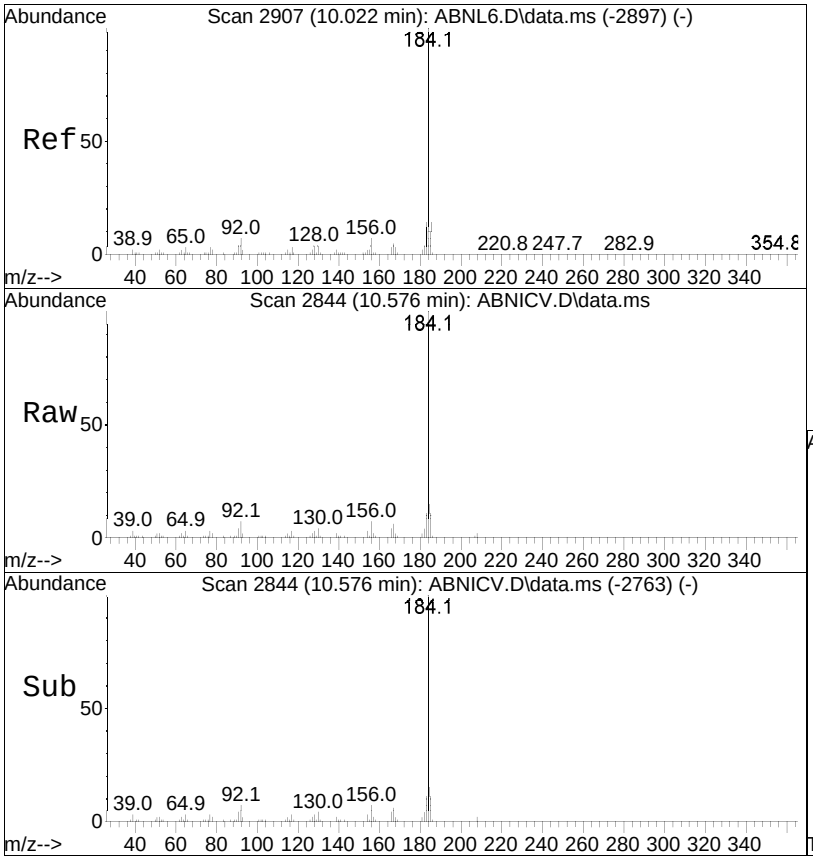


#90
Fluoranthene
Concen: 4.69 ug/ml
RT: 10.427 min Scan# 2796
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 29 Feb 2024 4:23 am

Tgt Ion:202 Resp: 164934

Ion	Ratio	Lower	Upper
202	100		
101	9.8	13.5	20.3#
203	17.4	13.6	20.4

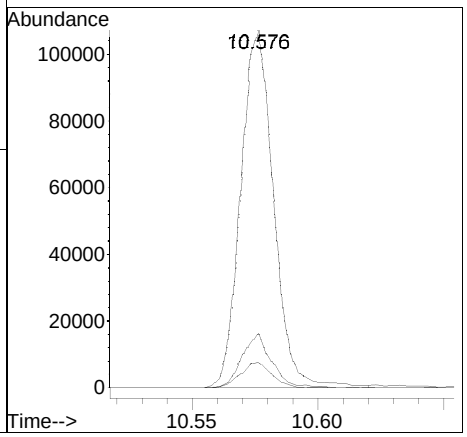


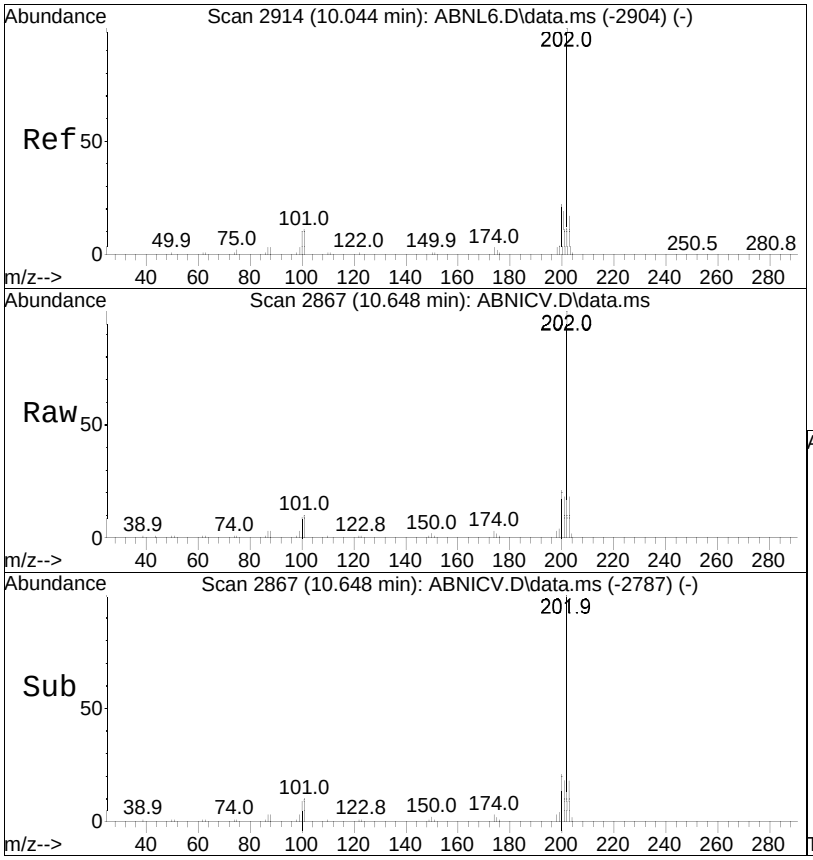


#91
Benzidine
Concen: 4.65 ug/ml
RT: 10.576 min Scan# 2844
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 29 Feb 2024 4:23 am

Tgt Ion:184 Resp: 96316

Ion	Ratio	Lower	Upper
184	100		
92	6.7	9.1	13.7#
185	13.7	11.1	16.7

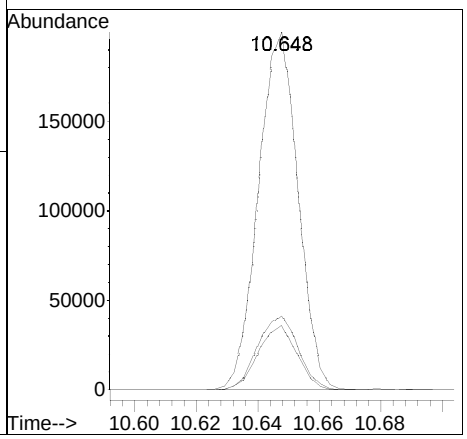


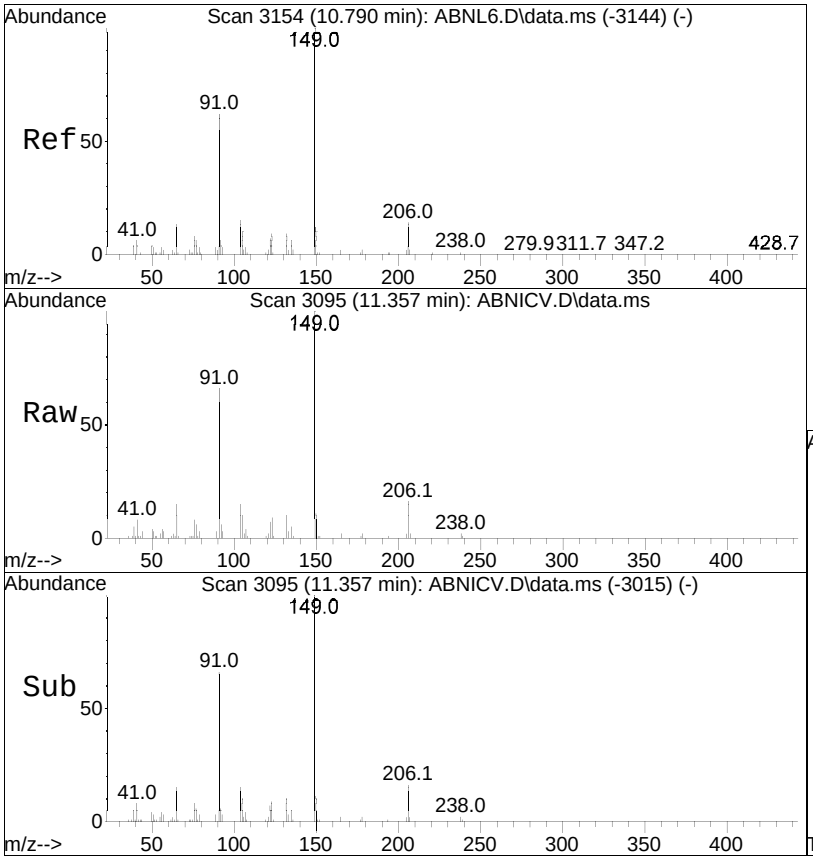


#92
Pyrene
Concen: 4.79 ug/ml
RT: 10.648 min Scan# 2867
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 29 Feb 2024 4:23 am

Tgt Ion:202 Resp: 177147

Ion	Ratio	Lower	Upper
202	100		
200	21.4	16.7	25.1
203	17.8	14.2	21.4

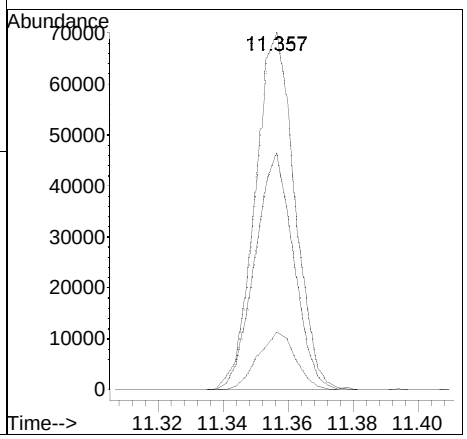


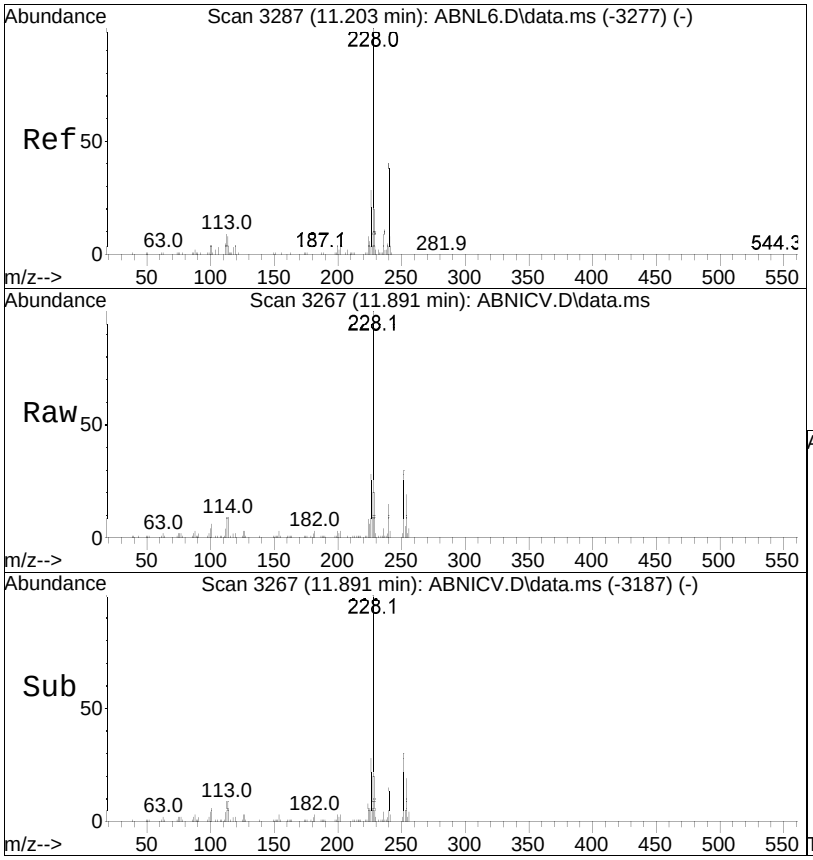


#94
Butyl benzyl phthalate
Concen: 4.28 ug/ml
RT: 11.357 min Scan# 3095
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 29 Feb 2024 4:23 am

Tgt Ion:149 Resp: 58536

Ion	Ratio	Lower	Upper
149	100		
91	65.3	63.3	94.9
206	15.6	13.9	20.9

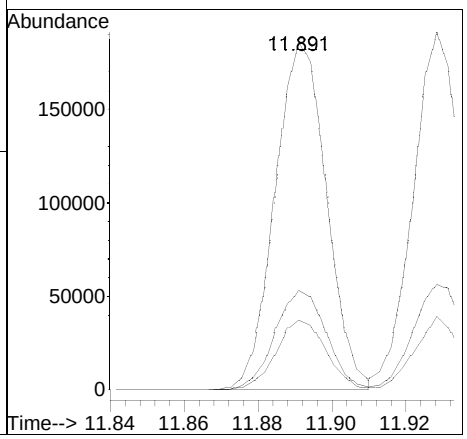


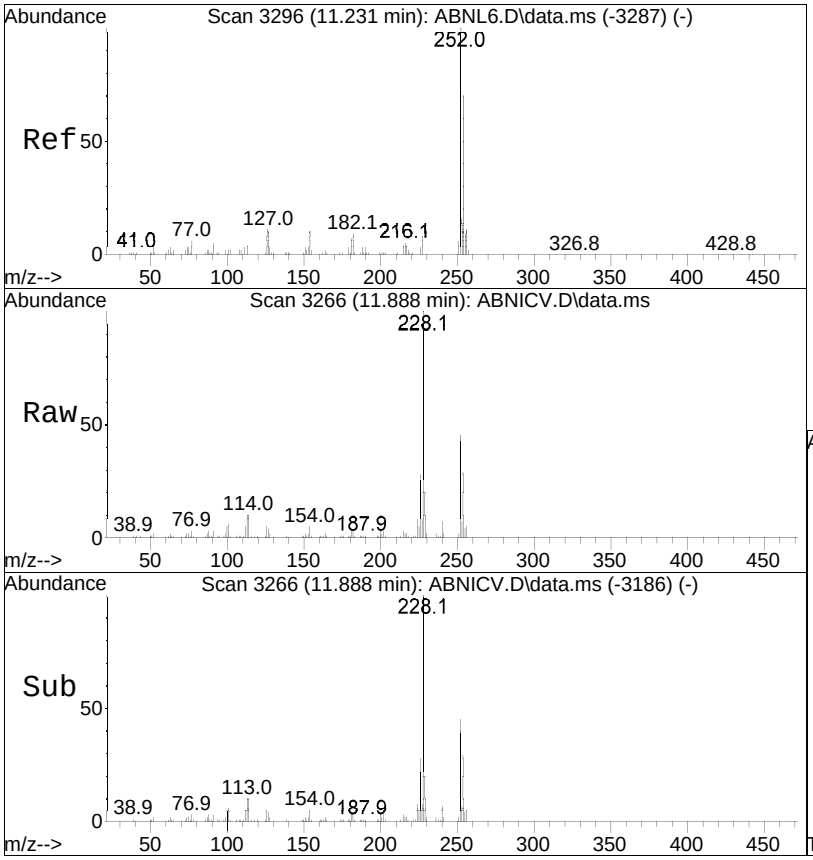


#101
Benzo(a)anthracene
Concen: 4.54 ug/ml
RT: 11.891 min Scan# 3267
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 29 Feb 2024 4:23 am

Tgt Ion:228 Resp: 180277

Ion	Ratio	Lower	Upper
228	100		
226	28.7	22.2	33.4
229	19.6	15.6	23.4

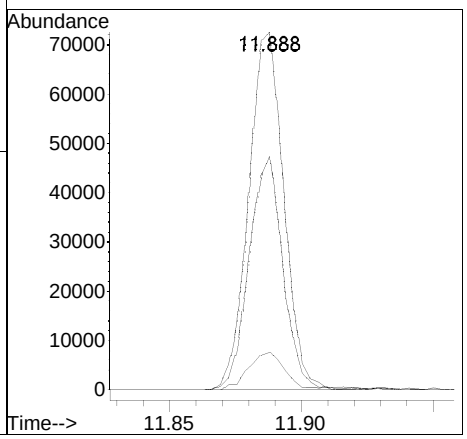


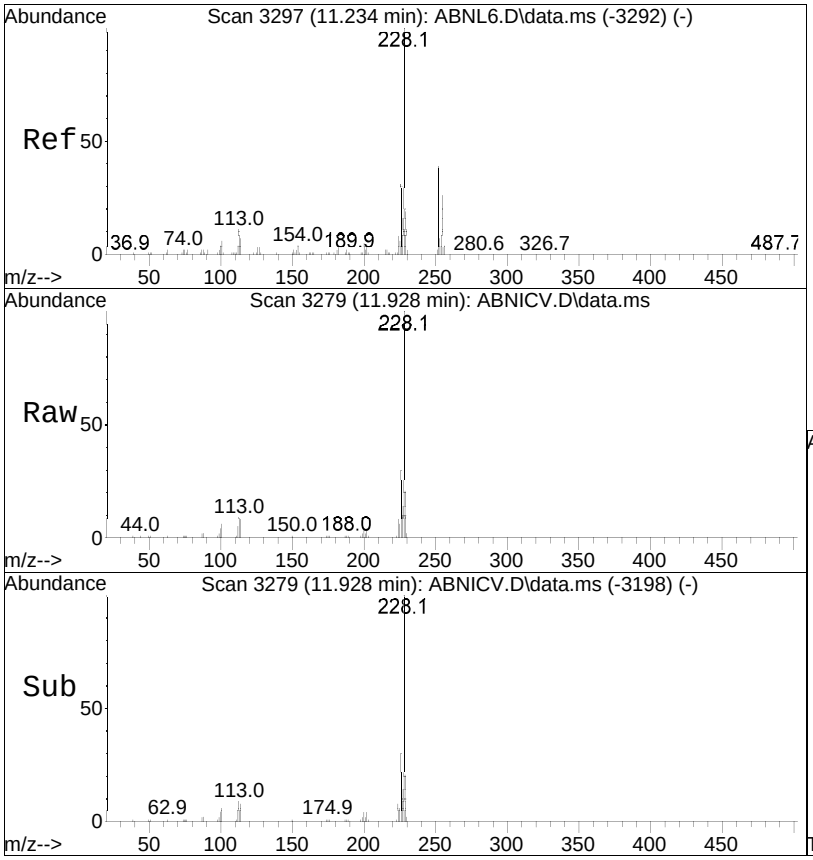


#102
3,3'-Dichlorobenzidine
Concen: 4.50 ug/ml
RT: 11.888 min Scan# 3266
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 29 Feb 2024 4:23 am

Tgt Ion:252 Resp: 67150

Ion	Ratio	Lower	Upper
252	100		
126	11.1	14.5	21.7#
254	62.6	51.2	76.8

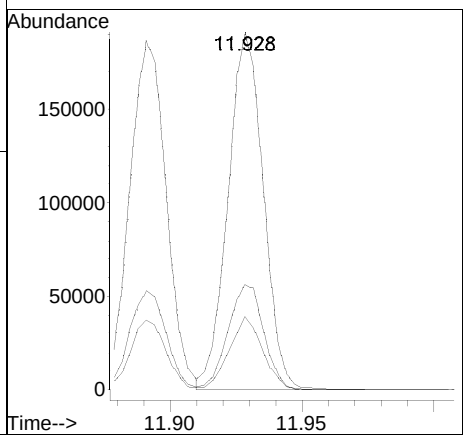


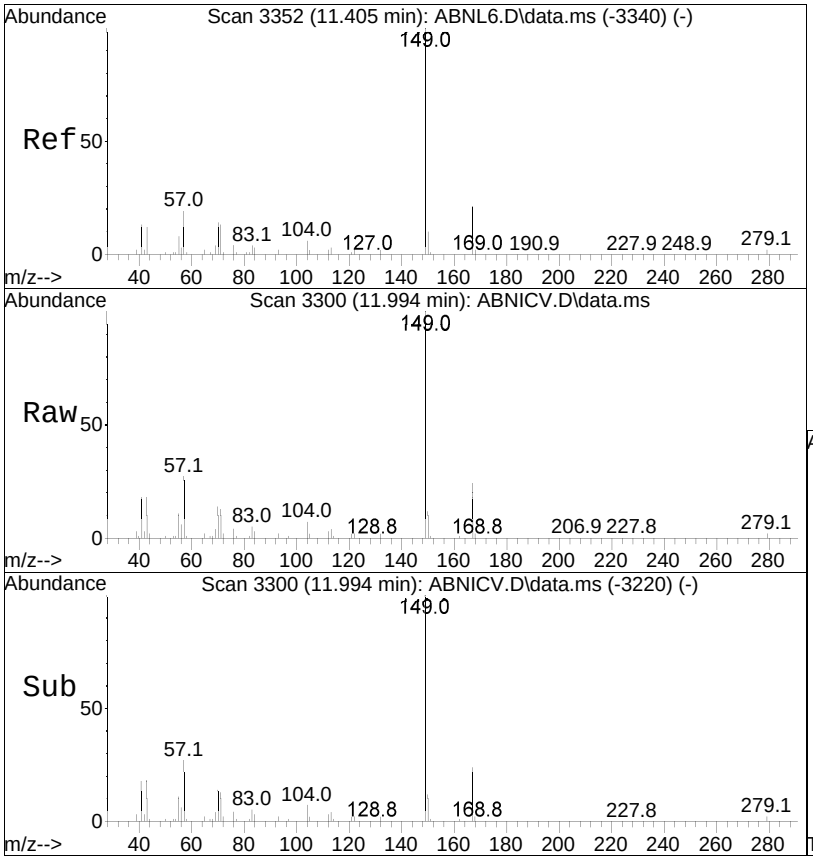


#103
Chrysene
Concen: 4.59 ug/ml
RT: 11.928 min Scan# 3279
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 29 Feb 2024 4:23 am

Tgt Ion:228 Resp: 177792

Ion	Ratio	Lower	Upper
228	100		
226	30.0	24.0	36.0
229	19.5	15.8	23.8

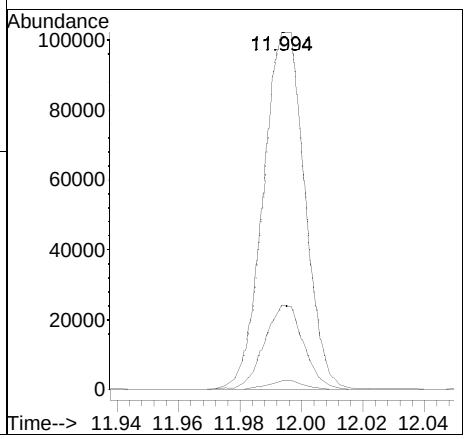


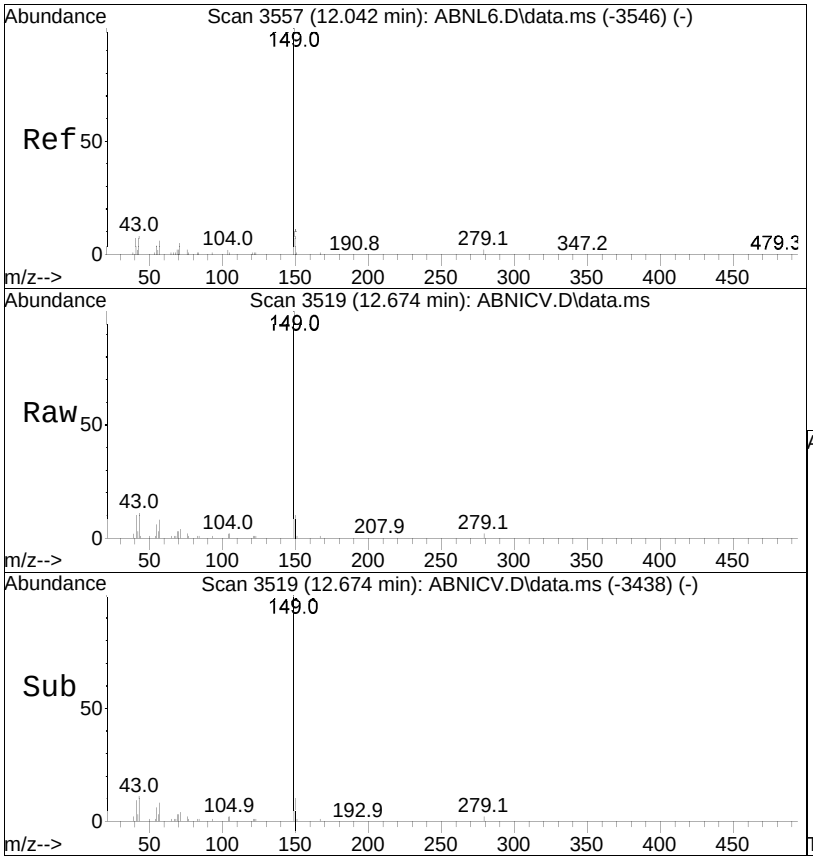


#104
Bis(2-ethylhexyl)phthalate
Concen: 4.36 ug/ml
RT: 11.994 min Scan# 3300
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 29 Feb 2024 4:23 am

Tgt Ion:149 Resp: 95015

Ion	Ratio	Lower	Upper
149	100		
167	22.5	22.1	33.1
279	2.0	3.0	4.4#

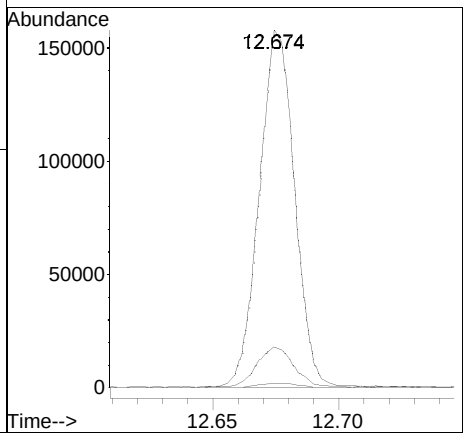


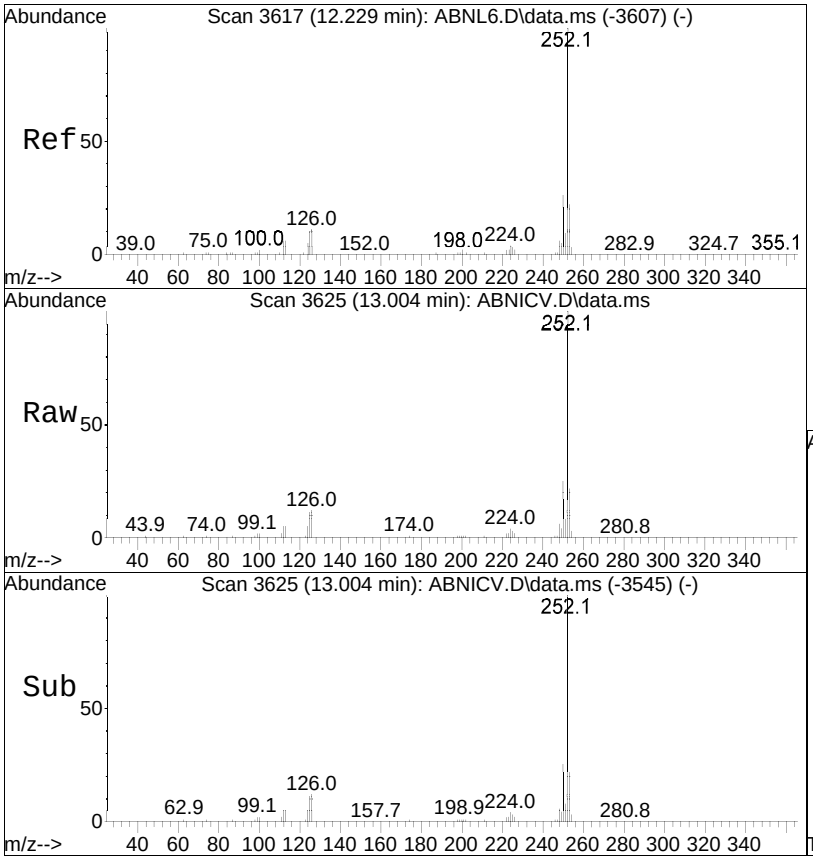


#105
Di-n-octylphthalate
Concen: 4.18 ug/ml
RT: 12.674 min Scan# 3519
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 29 Feb 2024 4:23 am

Tgt Ion:149 Resp: 152332

Ion	Ratio	Lower	Upper
149	100		
43	12.2	18.8	28.2#
167	1.1	1.3	1.9#

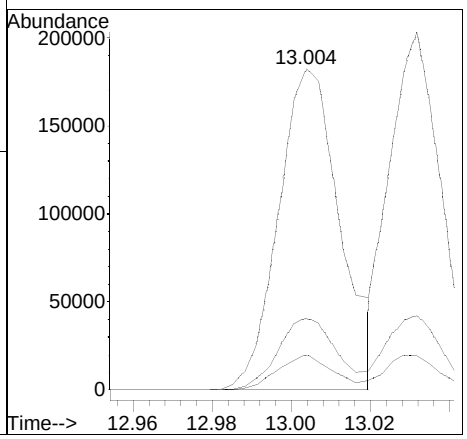


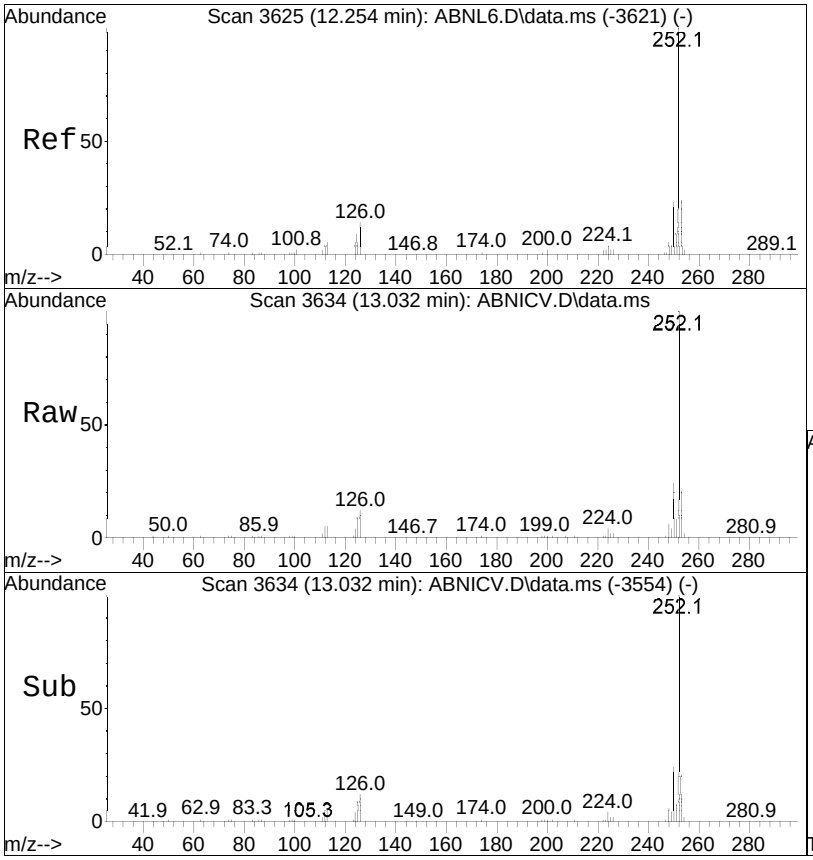


#106
Benzo(b)fluoranthene
Concen: 4.81 ug/ml
RT: 13.004 min Scan# 3625
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 29 Feb 2024 4:23 am

Tgt Ion:252 Resp: 197025

Ion	Ratio	Lower	Upper
252	100		
125	9.7	13.3	19.9#
253	20.8	17.1	25.7

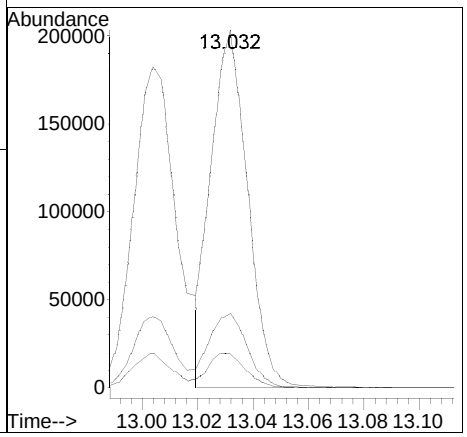


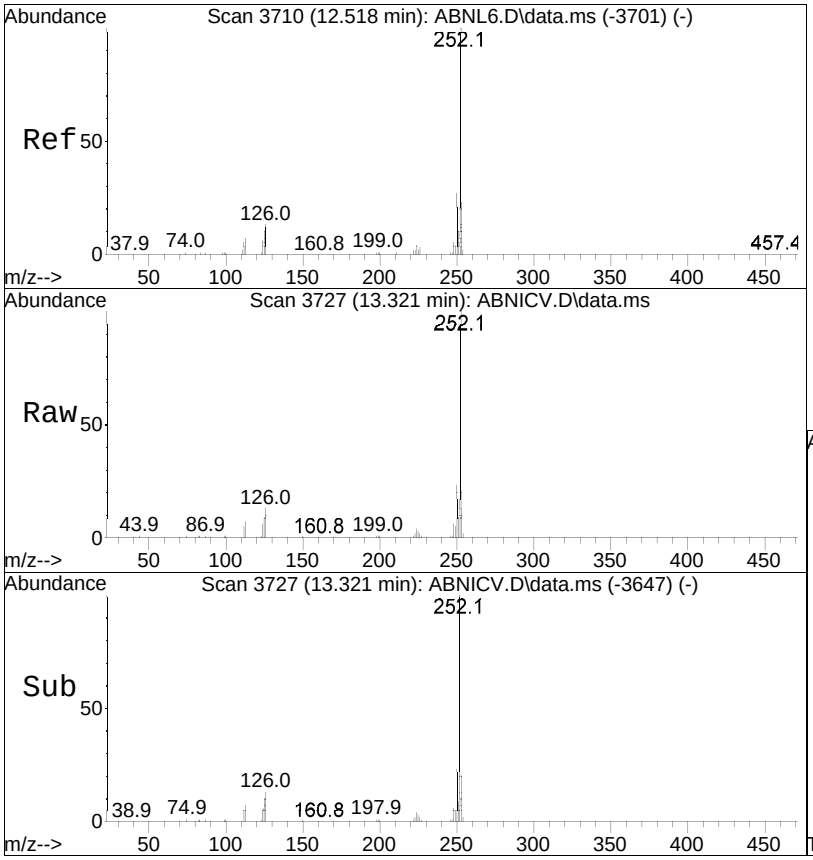


#107
Benzo(k)fluoranthene
Concen: 4.61 ug/ml
RT: 13.032 min Scan# 3634
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 29 Feb 2024 4:23 am

Tgt Ion:252 Resp: 186268

Ion	Ratio	Lower	Upper
252	100		
125	10.3	13.0	19.6#
253	22.6	16.8	25.2

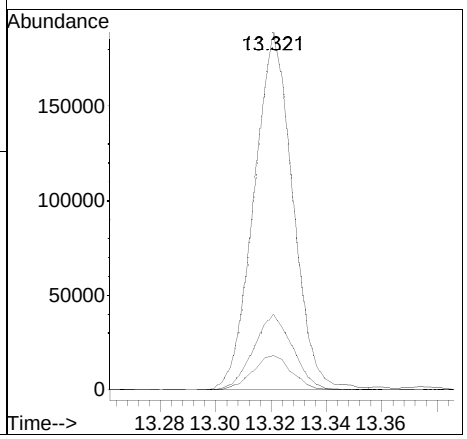


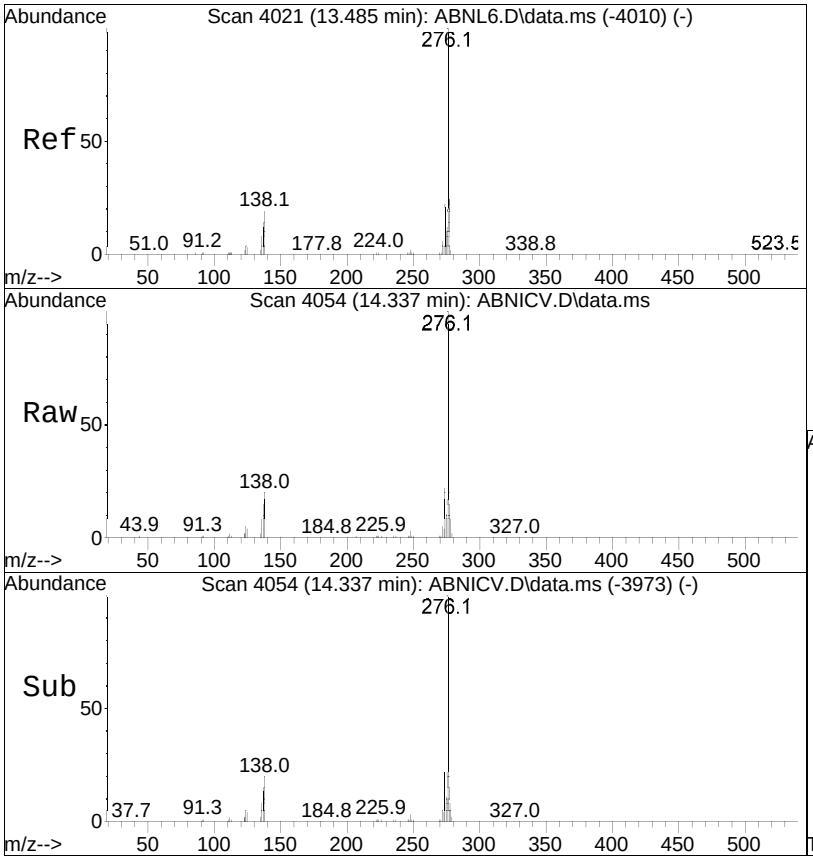


#108
Benzo(a)pyrene
Concen: 4.84 ug/ml
RT: 13.321 min Scan# 3727
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 29 Feb 2024 4:23 am

Tgt Ion:252 Resp: 182862

Ion	Ratio	Lower	Upper
252	100		
125	9.9	14.2	21.2#
253	21.7	16.9	25.3

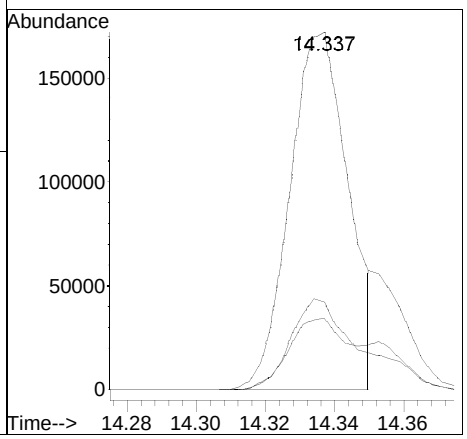


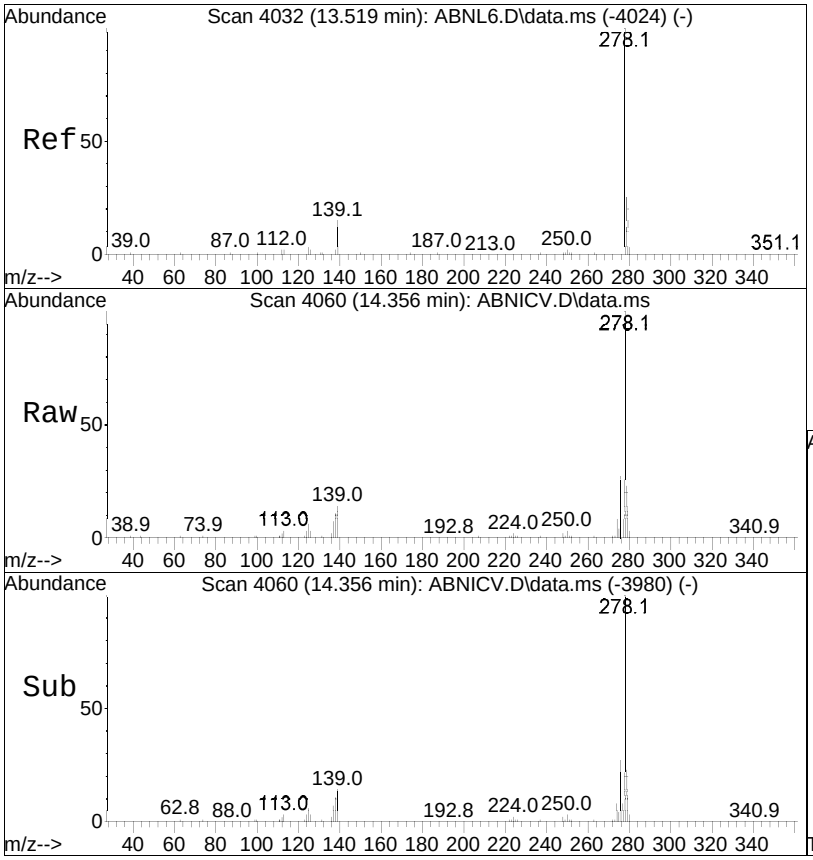


#110
Indeno(1,2,3-cd)pyrene
Concen: 4.60 ug/mL M6
RT: 14.337 min Scan# 4054
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 29 Feb 2024 4:23 am

Tgt Ion:276 Resp: 202055

Ion	Ratio	Lower	Upper
276	100		
138	20.0	25.1	37.7#
277	30.8	18.6	28.0#

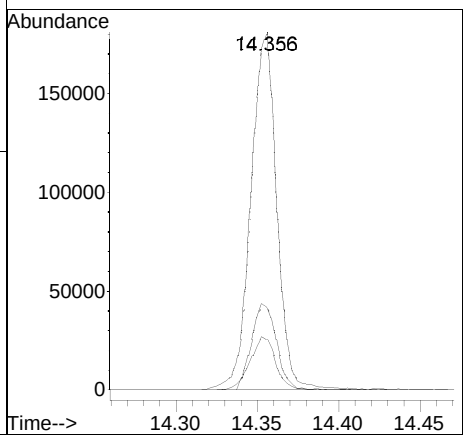


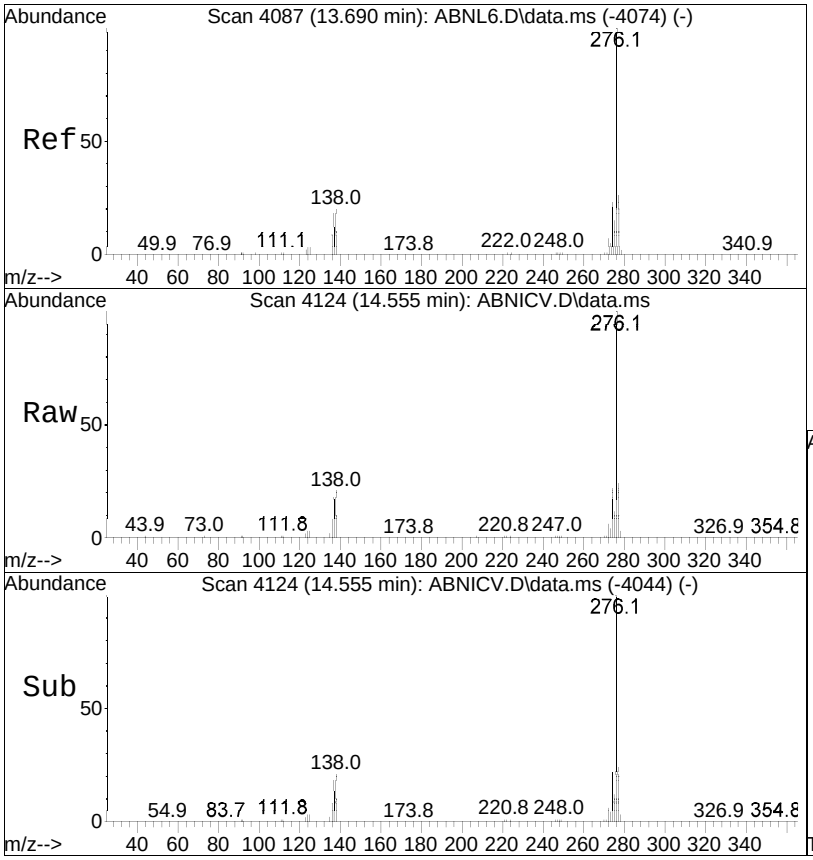


#111
Dibenzo(a,h)anthracene
Concen: 4.82 ug/ml
RT: 14.356 min Scan# 4060
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 29 Feb 2024 4:23 am

Tgt Ion:278 Resp: 198016

Ion	Ratio	Lower	Upper
278	100		
139	14.5	20.8	31.2#
279	23.9	18.3	27.5

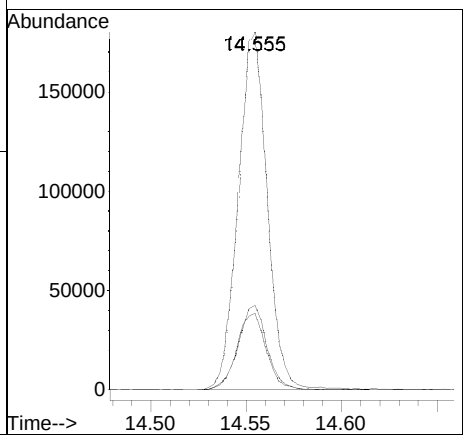




#112
Benzo(ghi)perylene
Concen: 4.55 ug/ml
RT: 14.555 min Scan# 4124
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 29 Feb 2024 4:23 am

Tgt Ion:276 Resp: 188045

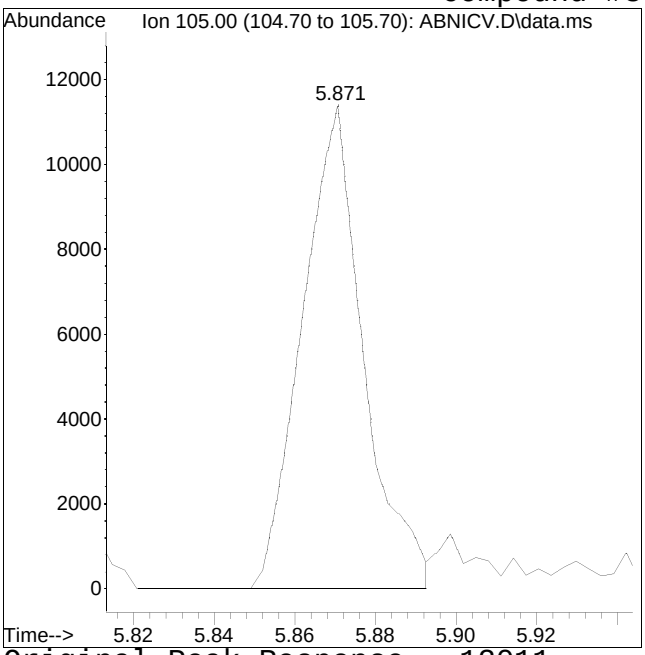
Ion	Ratio	Lower	Upper
276	100		
138	21.9	29.2	43.8#
277	23.4	18.8	28.2



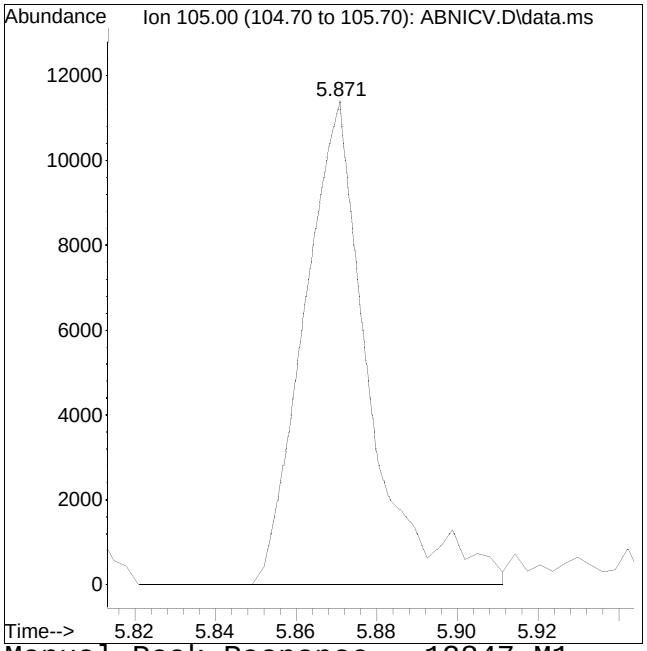
Manual Integration Report

Data Path : I:\8270\Dakota\240228ical\QMethod : FS240228LVIDakota.m
Data File : ABNICV.D Operator : Dakota:ljg
Date Inj'd : 2/29/2024 4:23 am Instrument : Dakota
Sample : CQICV1,32,,ABNICV Lot# 105Quant Date : 2/29/2024 1:54 pm

Compound #35: Benzoic Acid



Original Peak Response = 12011



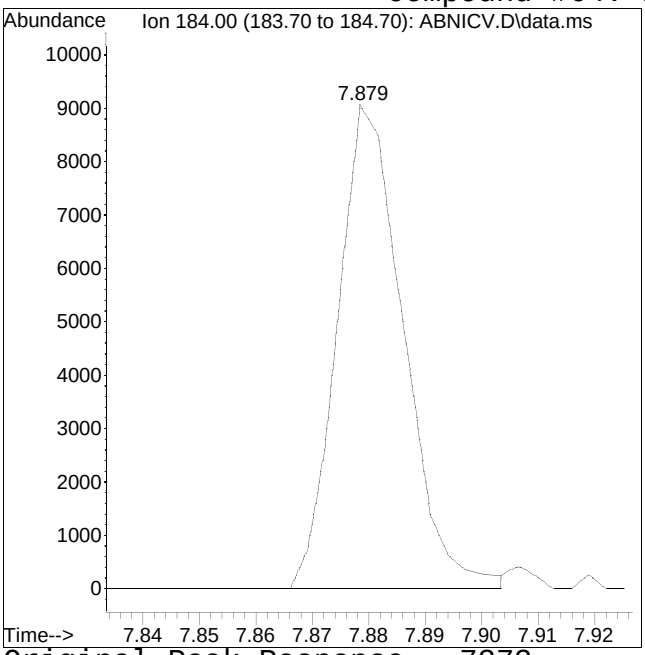
Manual Peak Response = 12847 M1

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

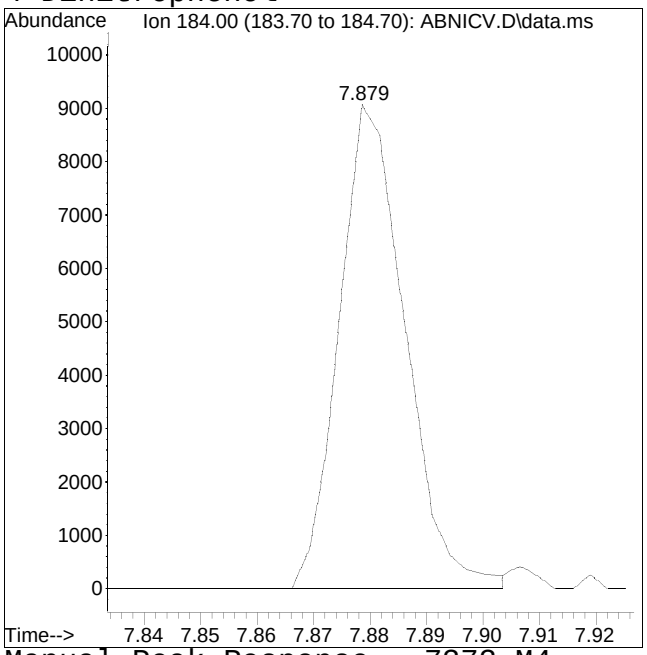
Manual Integration Report

Data Path : I:\8270\Dakota\240228ical\QMethod : FS240228LVIDakota.m
Data File : ABNICV.D Operator : Dakota:ljg
Date Inj'd : 2/29/2024 4:23 am Instrument : Dakota
Sample : CQICV1,32,,ABNICV Lot# 105Quant Date : 2/29/2024 1:54 pm

Compound #64: 2,4-Dinitrophenol



Original Peak Response = 7373



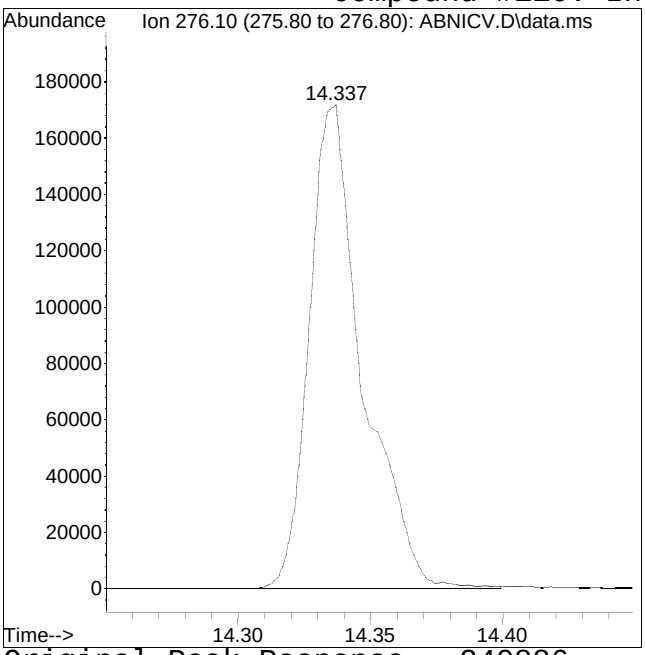
Manual Peak Response = 7373 M4

M4 = Poor automated baseline construction.

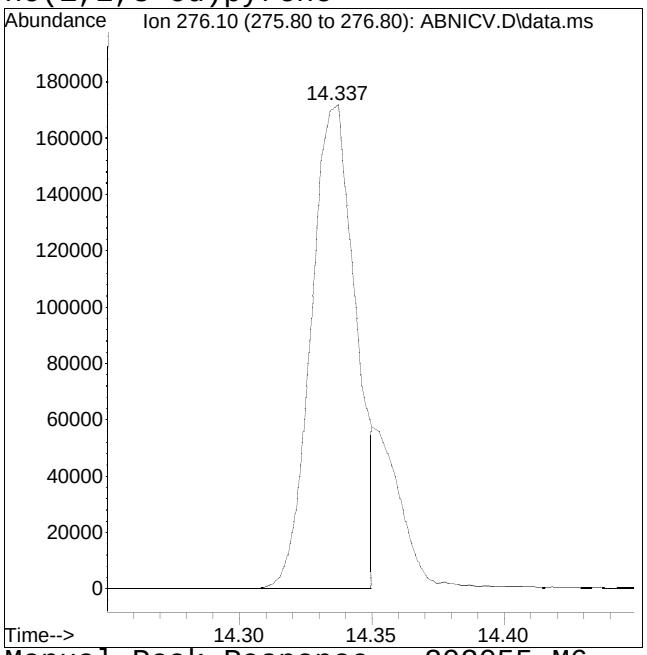
Manual Integration Report

Data Path : I:\8270\Dakota\240228ical\QMethod : FS240228LVIDakota.m
Data File : ABNICV.D Operator : Dakota:ljg
Date Inj'd : 2/29/2024 4:23 am Instrument : Dakota
Sample : CQICV1,32,,ABNICV Lot# 105Quant Date : 2/29/2024 1:54 pm

Compound #110: Indeno(1,2,3-cd)pyrene



Original Peak Response = 240886



Manual Peak Response = 202055 M6

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

Evaluate Continuing Calibration Report

Data Path : I:\8270\Dakota\240228ical\
Data File : APDPICV.D
Acq On : 29 Feb 2024 4:45 am
Operator : Dakota:ljg
Sample : CQICV2,32,,APDPICV Lot# 10533
Misc : WG1890771,,
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Feb 29 15:04:24 2024
Quant Method : I:\8270\Dakota\240228ical\FS240228LVIDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Feb 29 09:56:18 2024
Response via : Initial Calibration

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

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(min)
27	I	IS2_1,4-Dichlorobenzene-d4		1.000	1.000	0.0	105	0.00
28	T	Benzaldehyde		0.482	0.000	100.0#	0#	-4.44#
29	T	Acetophenone		1.694	1.733	-2.3	104	0.00
30	T	m-Toluidine		1.213	1.530	-26.1#	127	0.00
31	T	2-Chloroaniline		1.433	1.520	-6.1	106	0.00
32	T	n-Decane		1.418	1.389	2.0	108	0.00
53	I	IS2_Naphthalene-d8		1.000	1.000	0.0	106	0.00
54	T	a-Terpineol		0.299	0.306	-2.3	105	0.00
55	T	3-Chloroaniline		0.132	0.136	-3.0	107	0.00
56	T	2,6-Dichlorophenol		0.316	0.325	-2.8	105	0.00
57	T	1-chloro-2-nitrobenzene		0.129	0.133	-3.1	107	0.00
58	T	Caprolactam		0.165	0.156	5.5	100	0.00
59	T	1,2,4,5-Tetrachlorobenzene		0.447	0.457	-2.2	108	0.00
60	T	Biphenyl		0.891	0.891	0.0	103	0.00
81	I	IS2_Acenaphthene-d10		1.000	1.000	0.0	107	0.00
82	T	Dichloran		0.178	0.174	2.2	101	0.00
83	T	Pentachloronitrobenzene		0.190	0.190	0.0	102	0.00
84	T	Atrazine		0.384	0.382	0.5	101	0.00
95	I	IS2_Phenanthrene-d10		1.000	1.000	0.0	103	0.00
96	T	Diphenamid		0.446	0.462	-3.6	104	0.00
97	T	n-Octadecane		0.405	0.416	-2.7	106	0.00
98	T	Parathion	*	10.000	9.698	3.0	99	0.00
99	T	3,3'-Dimethylbenzidine	*	10.000	11.879	-18.8	124	0.00

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240228ical\
Data File : APDPICV.D
Acq On : 29 Feb 2024 4:45 am
Operator : Dakota:ljg
Sample : CQICV2,32,,APDPICV Lot# 10533
Misc : WG1890771,,
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Feb 29 15:04:24 2024
Quant Method : I:\8270\Dakota\240228ical\FS240228LVIDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Feb 29 09:56:18 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\240228ical\APDPL6.D
Sub List : AP9ADP_REV1 - Combined adp and ap9 sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
27) IS2_1,4-Dichlorobenzen...	4.870	152	23598	4.000	ug/ml	0.00
Standard Area 1 = 24107			Recovery = 97.89%			
53) IS2_Naphthalene-d8	6.107	136	83559	4.000	ug/ml	# 0.00
Standard Area 1 = 86634			Recovery = 96.45%			
81) IS2_Acenaphthene-d10	7.813	164	52684	4.000	ug/ml	0.00
Standard Area 1 = 54508			Recovery = 96.65%			
95) IS2_Phenanthrene-d10	9.249	188	115889	4.000	ug/ml	0.00
Standard Area 1 = 119932			Recovery = 96.63%			
System Monitoring Compounds						
Target Compounds						Qvalue
28) Benzaldehyde	0.000		0	N.D.	d	
29) Acetophenone	5.268	105	102252	10.233	ug/ml#	83
30) m-Toluidine	5.348	106	90255	12.612	ug/ml	95
31) 2-Chloroaniline	5.709	127	89646	10.606	ug/ml#	93
32) n-Decane	4.755	57	81922	9.794	ug/ml#	31
54) a-Terpineol	6.156	59	63956	10.252	ug/ml	90
55) 3-Chloroaniline	6.172	65	28449	10.282	ug/ml	97
56) 2,6-Dichlorophenol	6.203	162	67822	10.283	ug/ml#	85
57) 1-chloro-2-nitrobenzene	6.455	111	27716	10.310	ug/ml#	1
58) Caprolactam	6.492	55	32688	9.509	ug/ml#	83
59) 1,2,4,5-Tetrachloroben...	6.974	216	95447	10.233	ug/ml#	94
60) Biphenyl	7.266	154	186151	10.004	ug/ml	99
82) Dichloran	8.941	206	22967	9.820	ug/ml#	58
83) Pentachloronitrobenzene	9.094	237	25000	9.974	ug/ml#	74
84) Atrazine	9.010	200	50284	9.953	ug/ml	93
96) Diphenamid	10.147	167	133931	10.374	ug/ml#	78
97) n-Octadecane	9.212	57	120664	10.287	ug/ml#	1
98) Parathion	10.026	109	23442	9.698	ug/ml	89
99) 3,3'-Dimethylbenzidine	11.322	212	195418	11.879	ug/ml	99

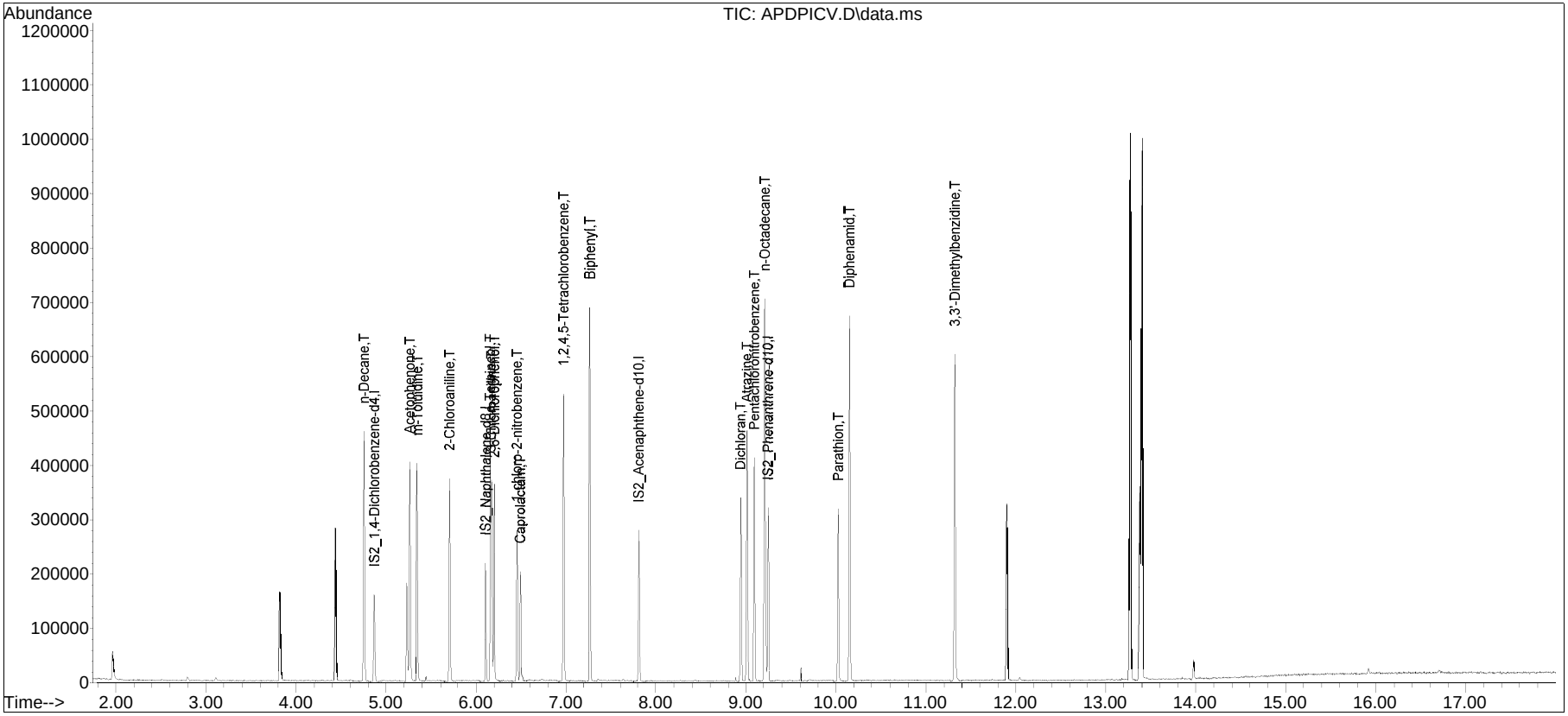
(#) = qualifier out of range (m) = manual integration (+) = signals summed

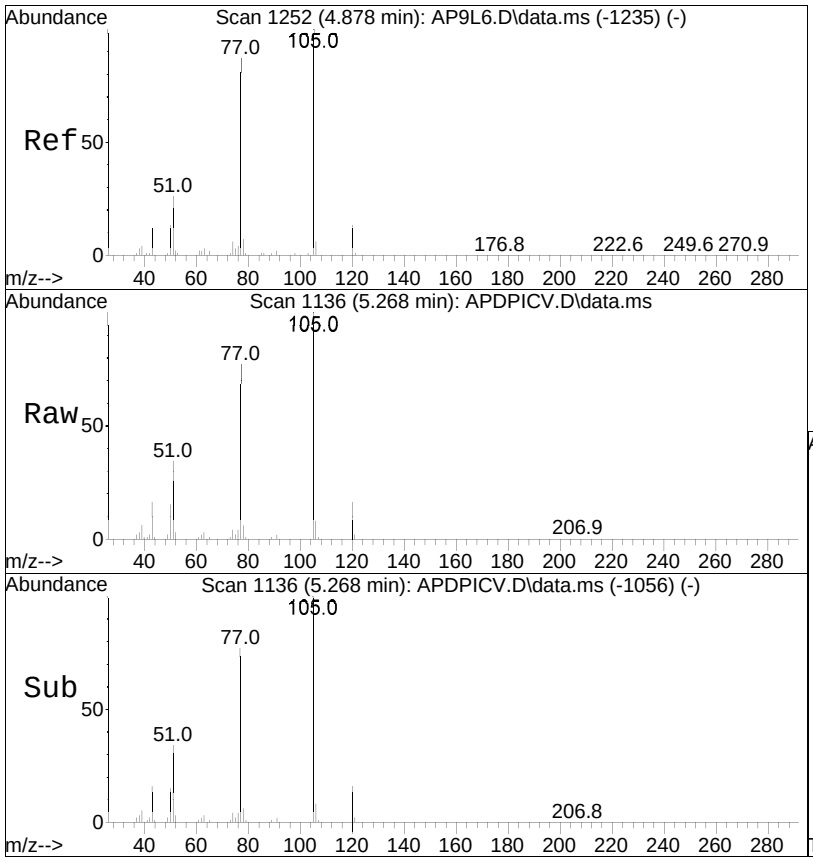
Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240228ical\
Data File : APDPICV.D
Acq On : 29 Feb 2024 4:45 am
Operator : Dakota:ljg
Sample : CQICV2,32,,APDPICV Lot# 10533
Misc : WG1890771,,
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Feb 29 15:04:24 2024
Quant Method : I:\8270\Dakota\240228ical\FS240228LVIDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Feb 29 09:56:18 2024
Response via : Initial Calibration

Sub List : AP9ADP_REV1 - Combined adp and ap9 sublist

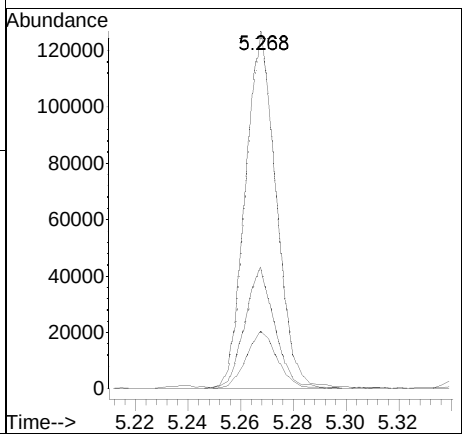


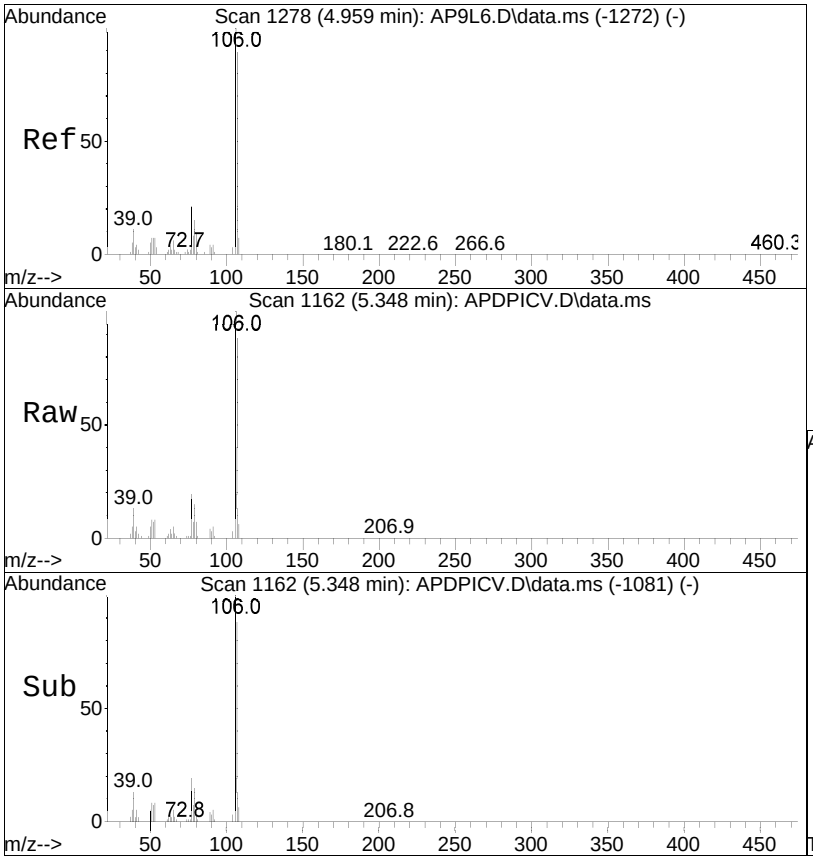


#29
Acetophenone
Concen: 10.23 ug/ml
RT: 5.268 min Scan# 1136
Delta R.T. -0.000 min
Lab File: APDPICV.D
Acq: 29 Feb 2024 4:45 am

Tgt Ion:105 Resp: 102252

Ion	Ratio	Lower	Upper
105	100		
120	16.2	20.5	30.7#
51	32.9	34.9	52.3#

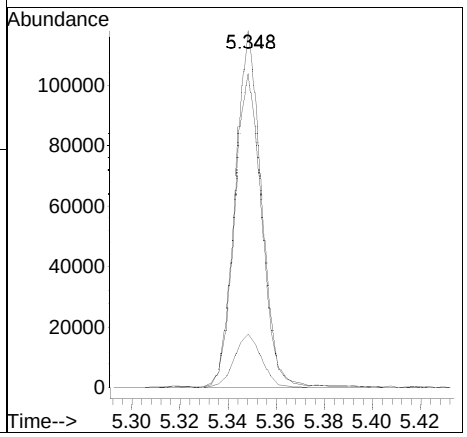


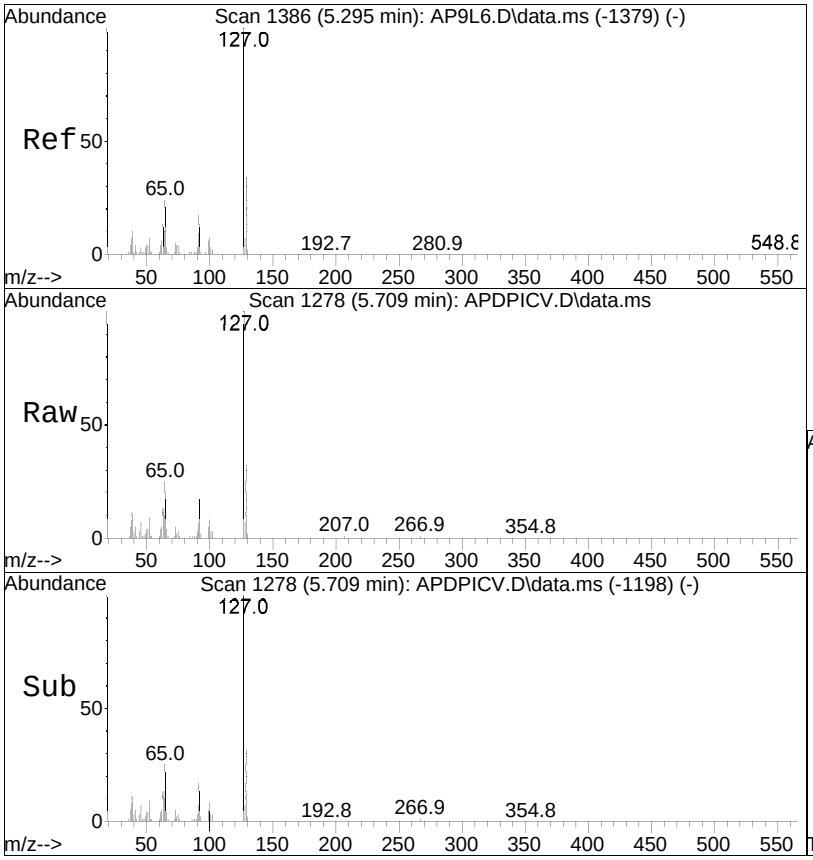


#30
m-Toluidine
Concen: 12.61 ug/ml
RT: 5.348 min Scan# 1162
Delta R.T. 0.000 min
Lab File: APDPICV.D
Acq: 29 Feb 2024 4:45 am

Tgt Ion:106 Resp: 90255

Ion	Ratio	Lower	Upper
106	100		
107	89.6	75.7	113.5
79	15.4	11.8	17.8

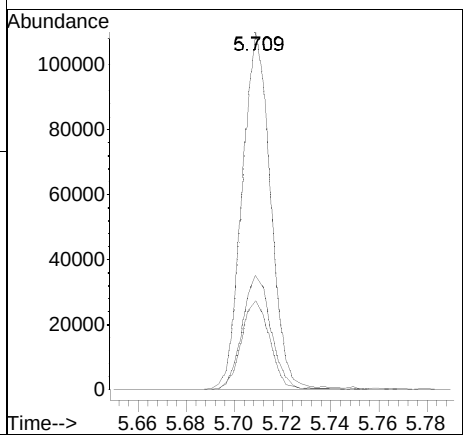


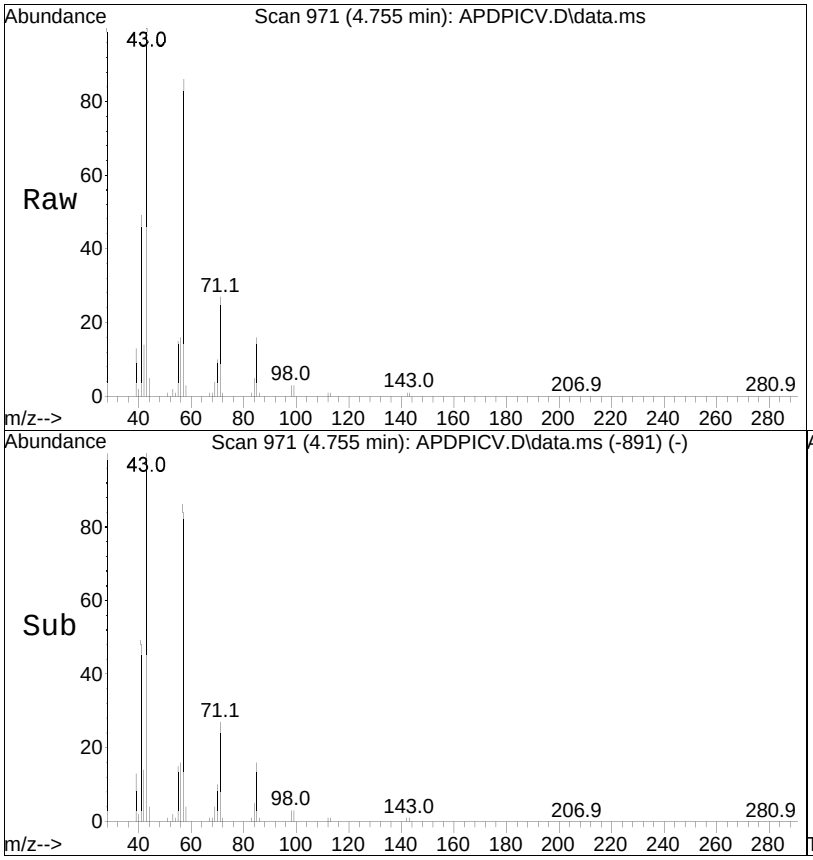


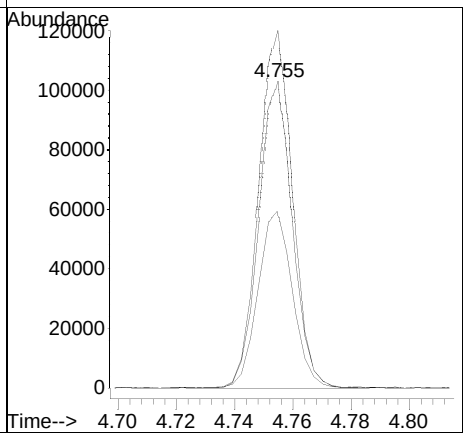
#31
2-Chloroaniline
Concen: 10.61 ug/ml
RT: 5.709 min Scan# 1278
Delta R.T. -0.000 min
Lab File: APDPICV.D
Acq: 29 Feb 2024 4:45 am

Tgt Ion:127 Resp: 89646

Ion	Ratio	Lower	Upper
127	100		
129	32.4	25.9	38.9
65	25.0	26.3	39.5#



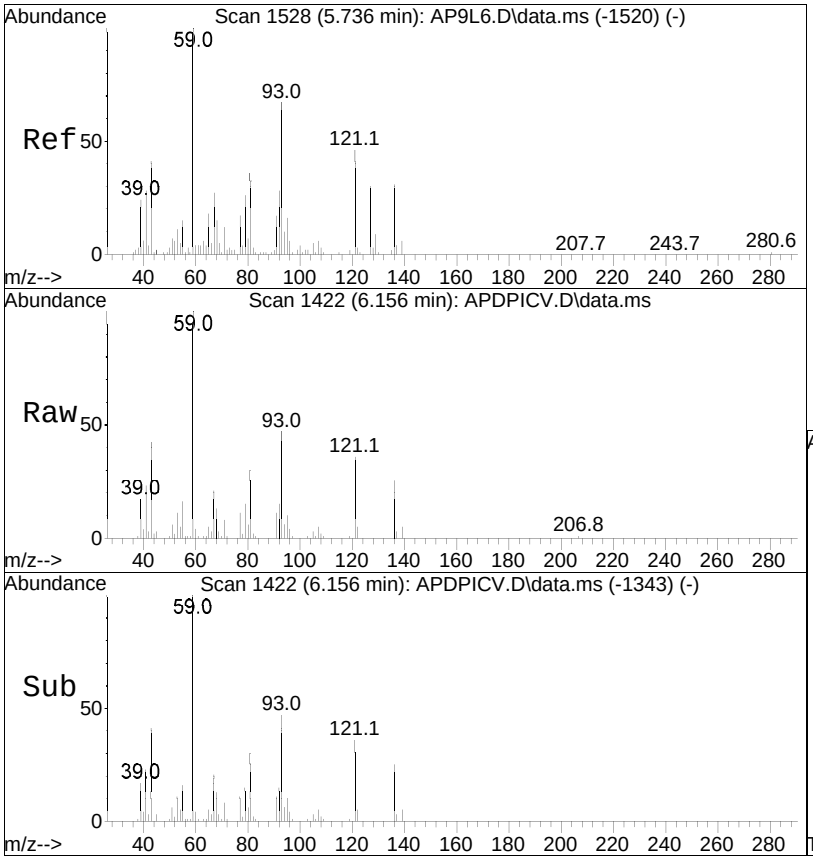




#32
n-Decane
Concen: 9.79 ug/ml
RT: 4.755 min Scan# 971
Delta R.T. -0.000 min
Lab File: APDPICV.D
Acq: 29 Feb 2024 4:45 am

Tgt Ion: 57 Resp: 81922

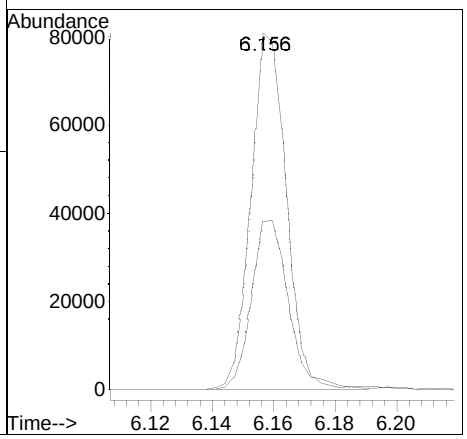
Ion	Ratio	Lower	Upper
57	100		
43	117.2	0.2	0.2#
41	59.7	0.2	0.2#

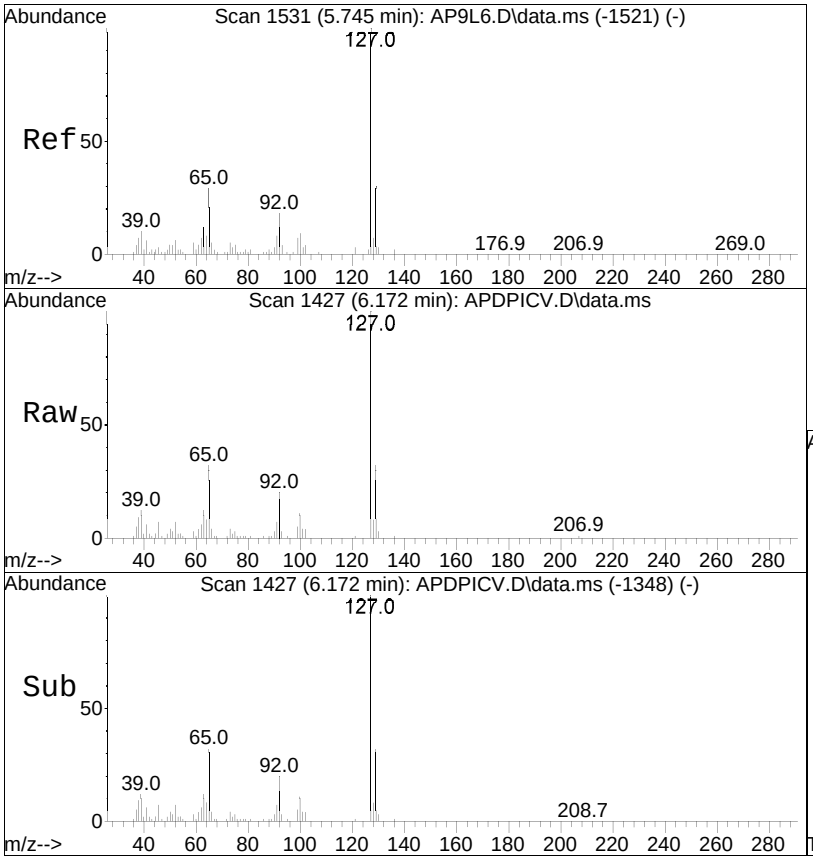


#54
a-Terpineol
Concen: 10.25 ug/ml
RT: 6.156 min Scan# 1422
Delta R.T. -0.004 min
Lab File: APDPICV.D
Acq: 29 Feb 2024 4:45 am

Tgt Ion: 59 Resp: 63956

Ion	Ratio	Lower	Upper
59	100		
93	50.8	35.6	53.4

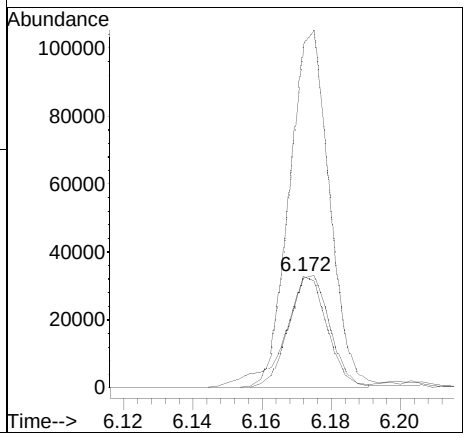


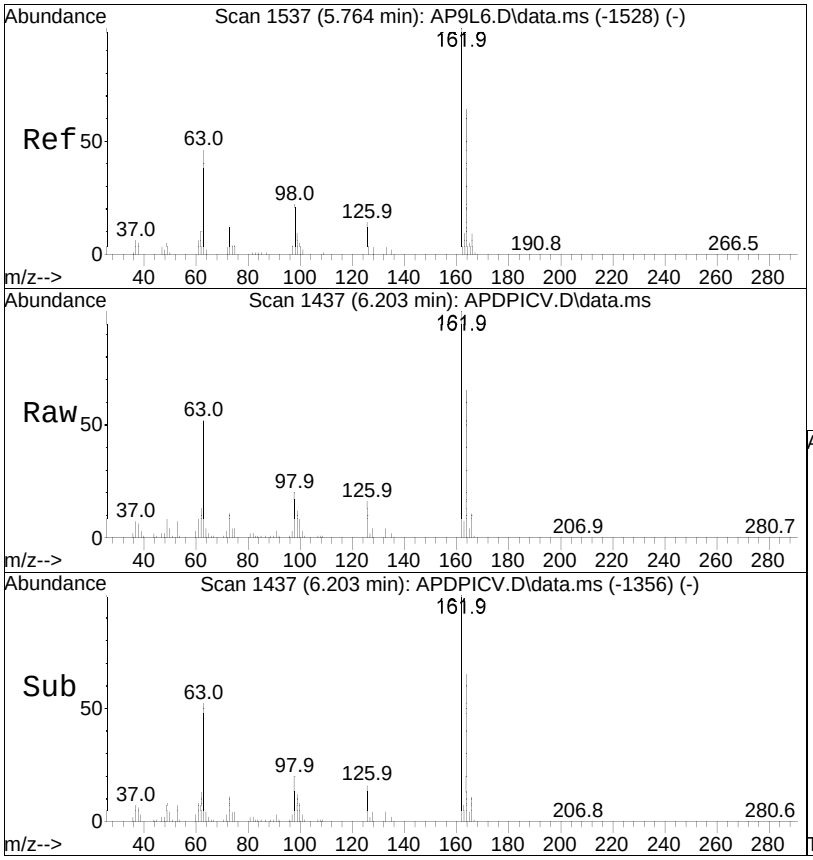


#55
3-Chloroaniline
Concen: 10.28 ug/ml
RT: 6.172 min Scan# 1427
Delta R.T. -0.003 min
Lab File: APDPICV.D
Acq: 29 Feb 2024 4:45 am

Tgt Ion: 65 Resp: 28449

Ion	Ratio	Lower	Upper
65	100		
127	297.5	243.2	364.8
129	94.9	78.8	118.2

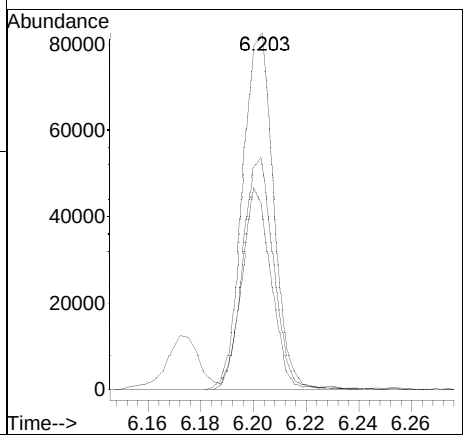


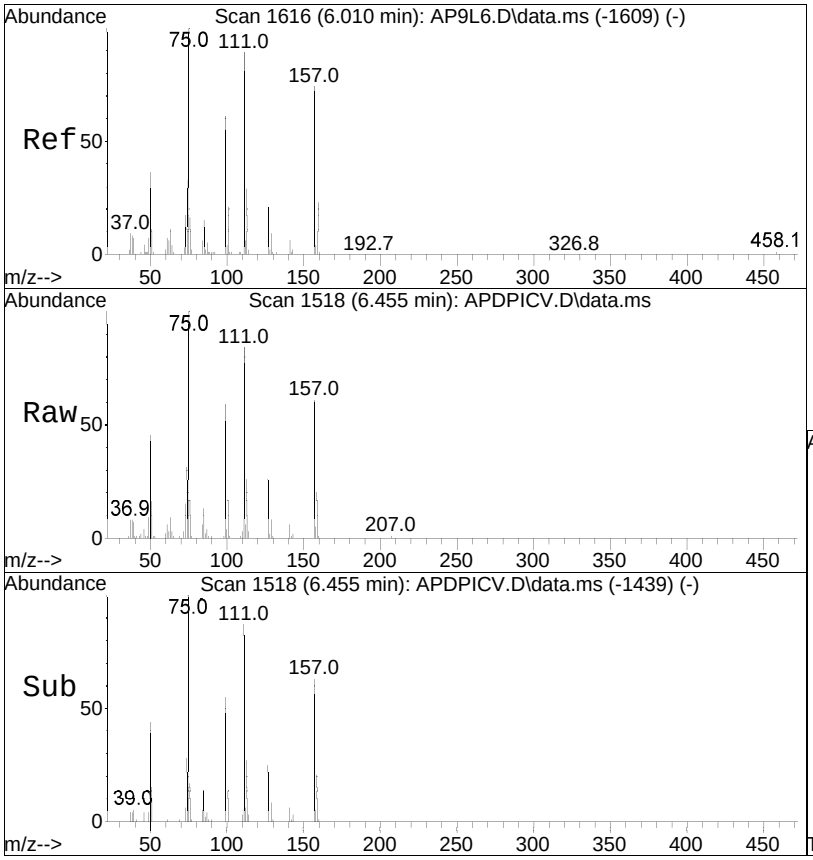


#56
2,6-Dichlorophenol
Concen: 10.28 ug/ml
RT: 6.203 min Scan# 1437
Delta R.T. 0.003 min
Lab File: APDPICV.D
Acq: 29 Feb 2024 4:45 am

Tgt Ion:162 Resp: 67822

Ion	Ratio	Lower	Upper
162	100		
164	64.4	51.1	76.7
63	52.8	60.8	91.2#

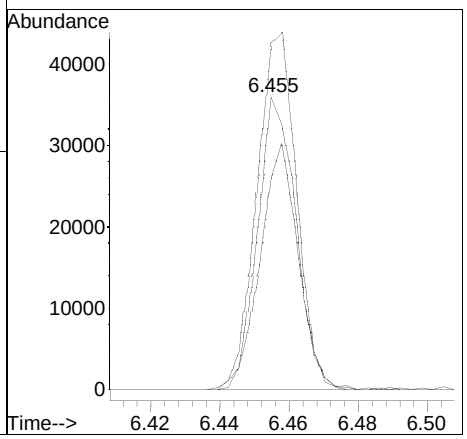


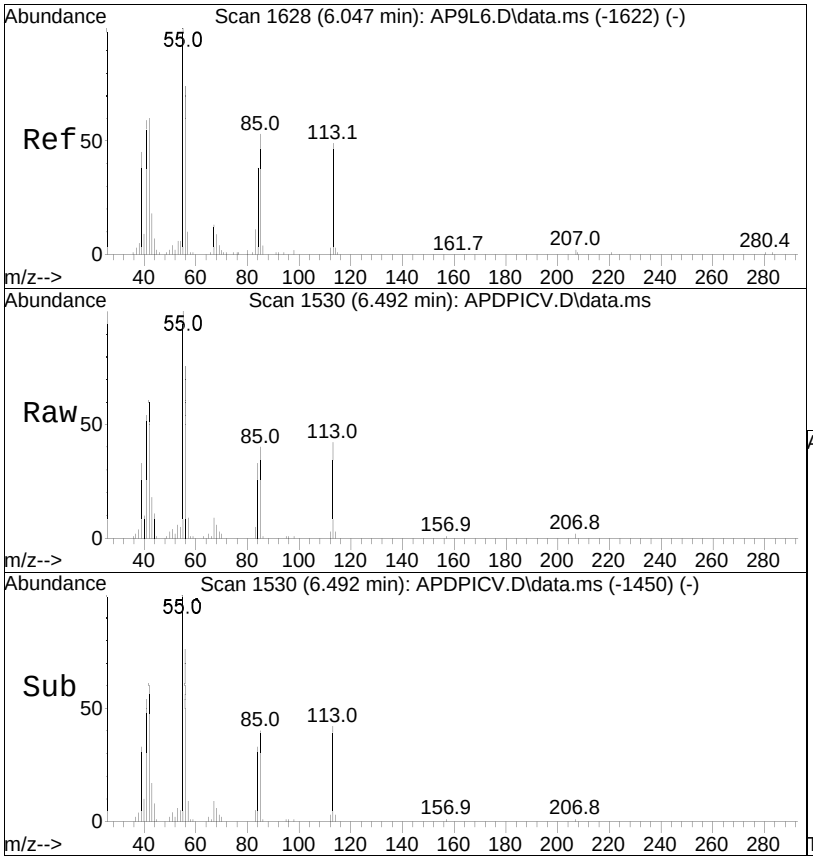


#57
1-chloro-2-nitrobenzene
Concen: 10.31 ug/ml
RT: 6.455 min Scan# 1518
Delta R.T. -0.003 min
Lab File: APDPICV.D
Acq: 29 Feb 2024 4:45 am

Tgt Ion:111 Resp: 27716

Ion	Ratio	Lower	Upper
111	100		
157	82.4	0.0	0.0#
75	126.0	28.2	42.2#

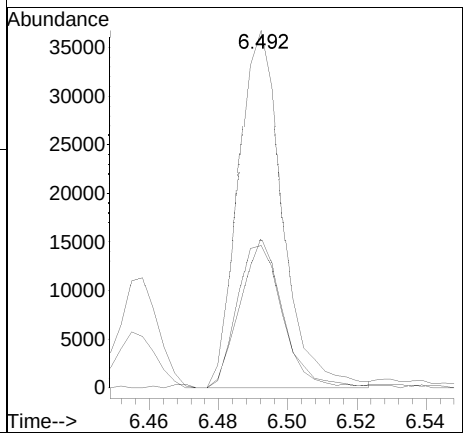


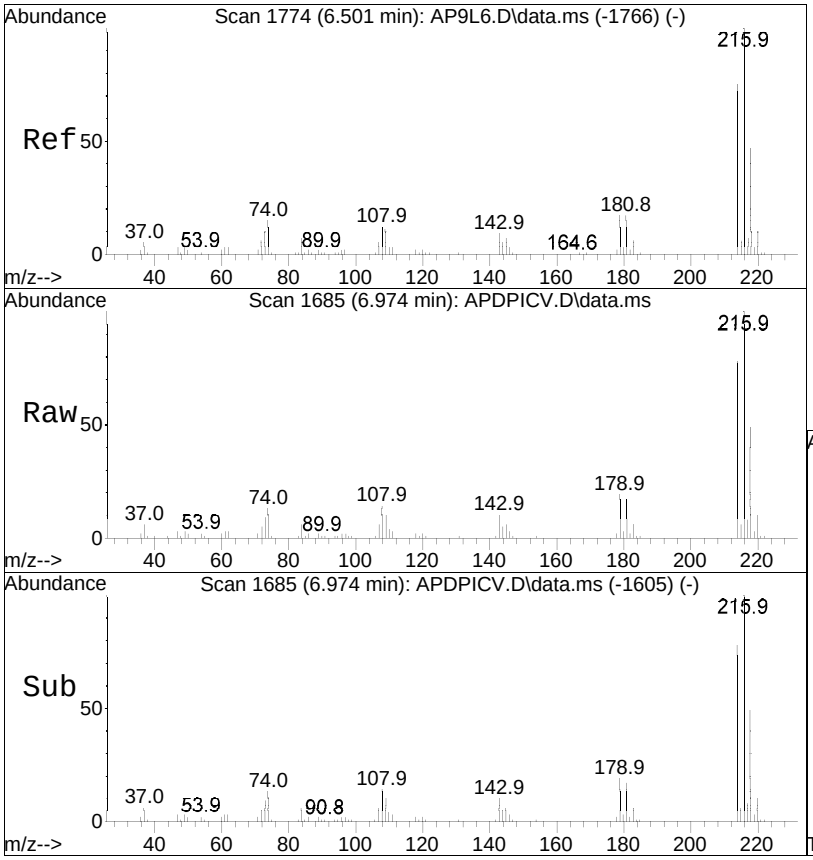


#58
Caprolactam
Concen: 9.51 ug/ml
RT: 6.492 min Scan# 1530
Delta R.T. 0.000 min
Lab File: APDPICV.D
Acq: 29 Feb 2024 4:45 am

Tgt Ion: 55 Resp: 32688

Ion	Ratio	Lower	Upper
55	100		
85	42.0	19.8	29.6#
113	39.7	29.6	44.4

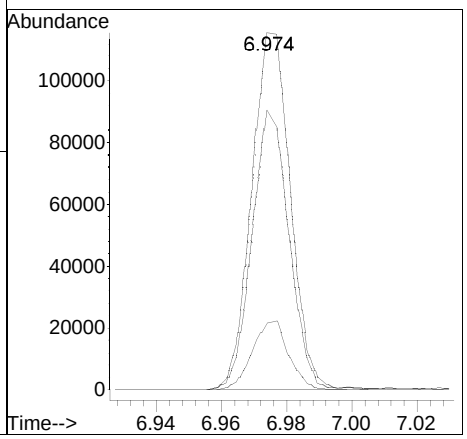


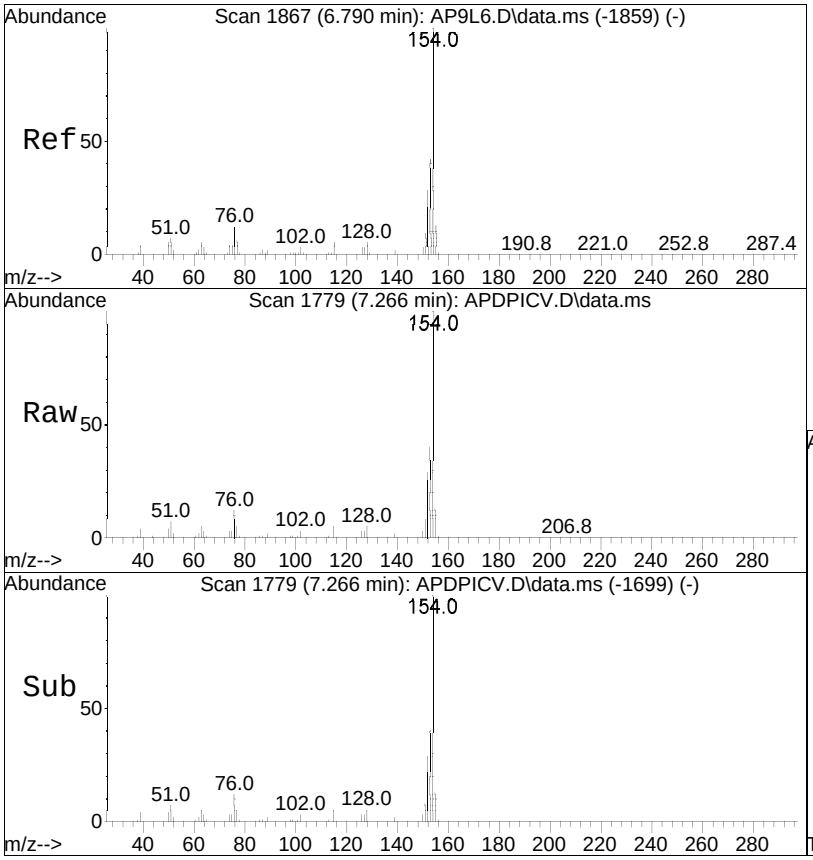


#59
1,2,4,5-Tetrachlorobenzene
Concen: 10.23 ug/ml
RT: 6.974 min Scan# 1685
Delta R.T. -0.000 min
Lab File: APDPICV.D
Acq: 29 Feb 2024 4:45 am

Tgt Ion:216 Resp: 95447

Ion	Ratio	Lower	Upper
216	100		
214	75.5	63.7	95.5
179	18.1	19.0	28.6#

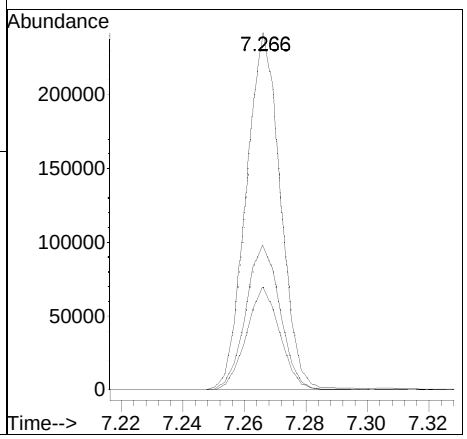


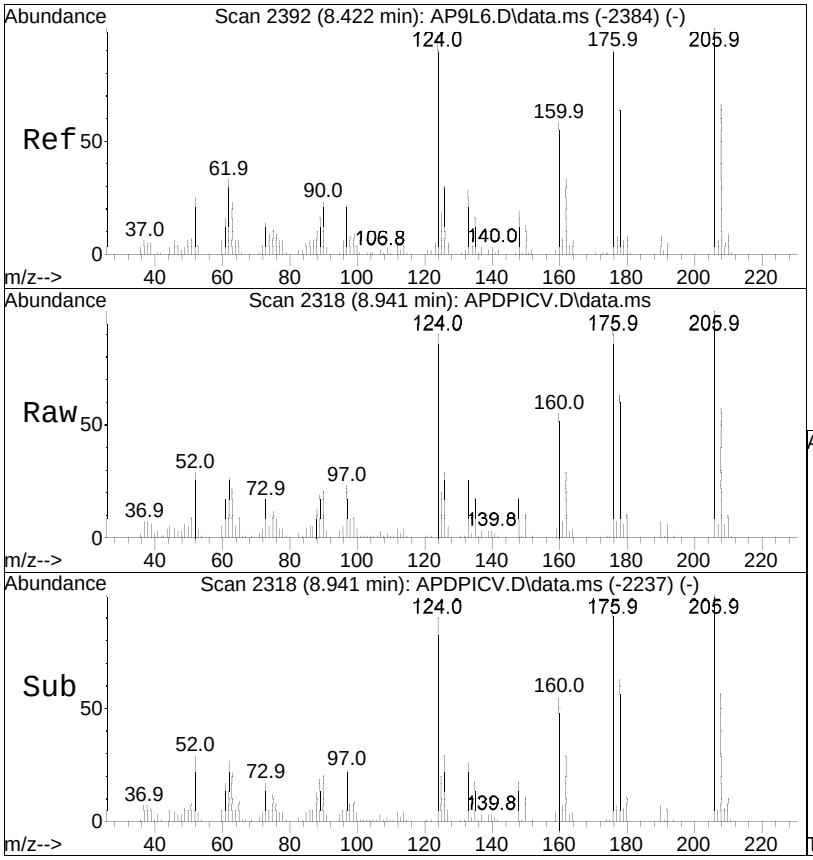


#60
Biphenyl
Concen: 10.00 ug/ml
RT: 7.266 min Scan# 1779
Delta R.T. 0.000 min
Lab File: APDPICV.D
Acq: 29 Feb 2024 4:45 am

Tgt Ion:154 Resp: 186151

Ion	Ratio	Lower	Upper
154	100		
153	40.8	32.3	48.5
152	28.4	22.5	33.7

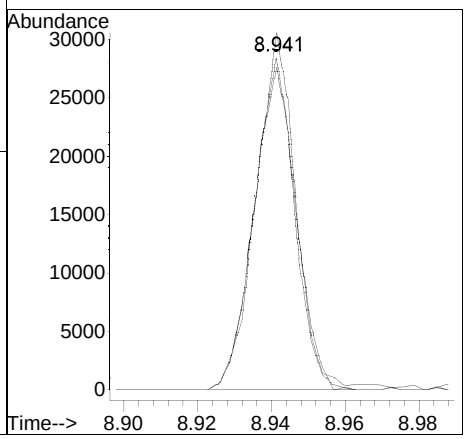


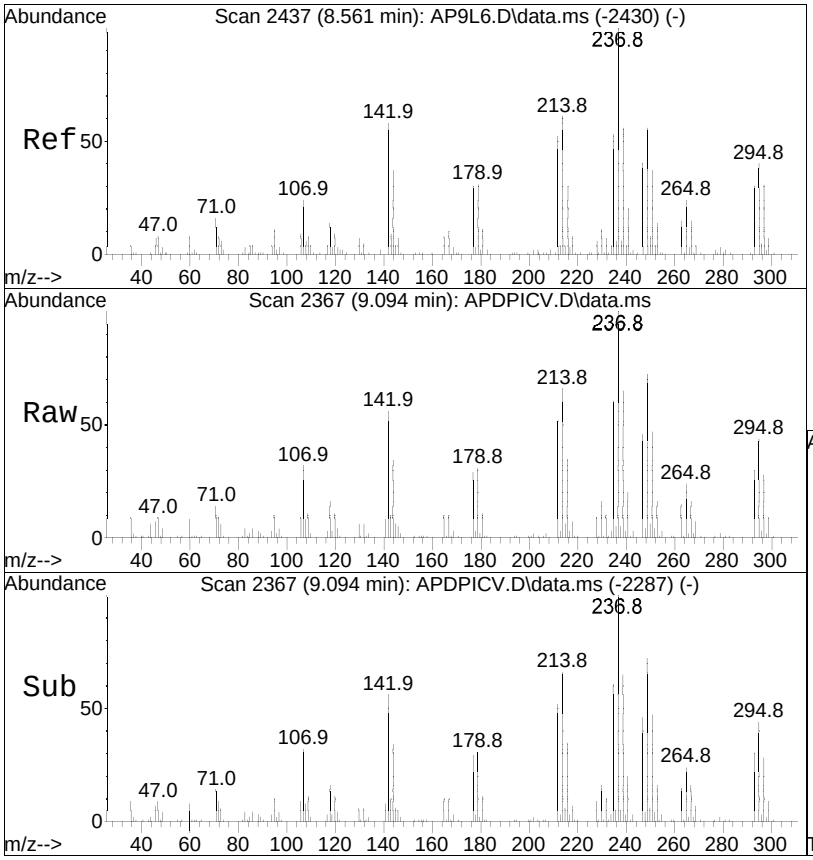


#82
Dichloran
Concen: 9.82 ug/ml
RT: 8.941 min Scan# 2318
Delta R.T. 0.000 min
Lab File: APDPICV.D
Acq: 29 Feb 2024 4:45 am

Tgt Ion:206 Resp: 22967

Ion	Ratio	Lower	Upper
206	100		
176	97.9	104.6	157.0#
124	91.9	130.5	195.7#

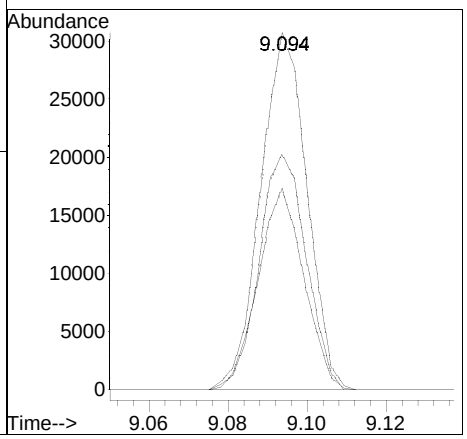


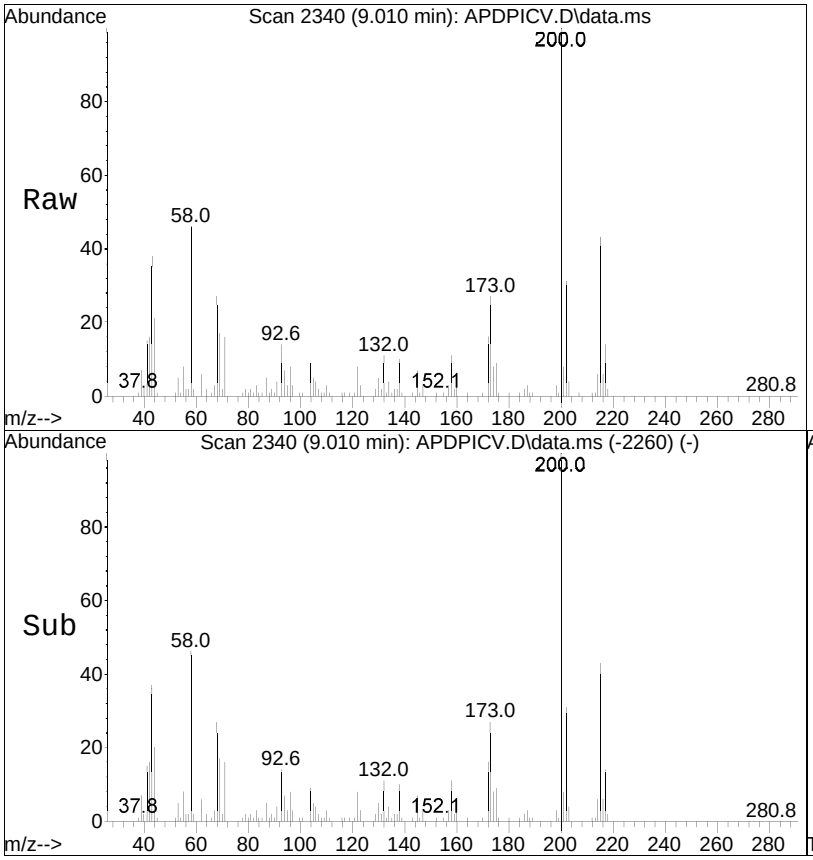


#83
Pentachloronitrobenzene
Concen: 9.97 ug/ml
RT: 9.094 min Scan# 2367
Delta R.T. -0.000 min
Lab File: APDPICV.D
Acq: 29 Feb 2024 4:45 am

Tgt Ion:237 Resp: 25000

Ion	Ratio	Lower	Upper
237	100		
142	56.0	77.0	115.4#
214	67.2	58.2	87.4

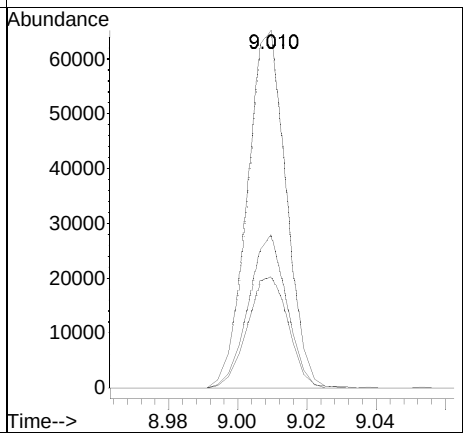


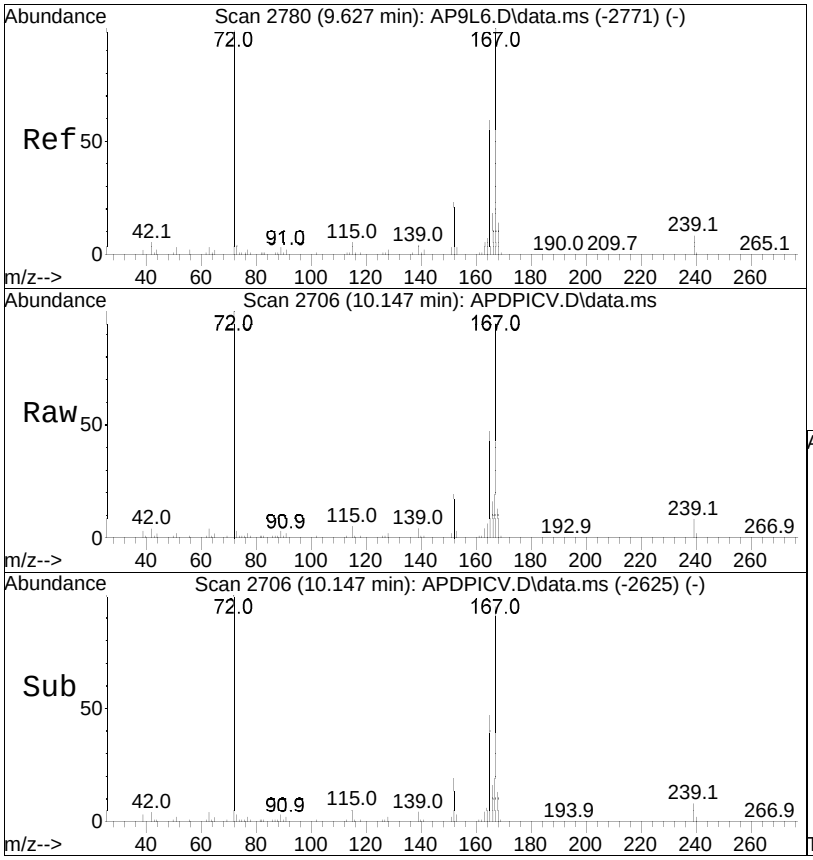


#84
Atrazine
Concen: 9.95 ug/ml
RT: 9.010 min Scan# 2340
Delta R.T. -0.000 min
Lab File: APDPICV.D
Acq: 29 Feb 2024 4:45 am

Tgt Ion:200 Resp: 50284

Ion	Ratio	Lower	Upper
200	100		
202	32.9	25.8	38.6
215	42.6	40.2	60.4

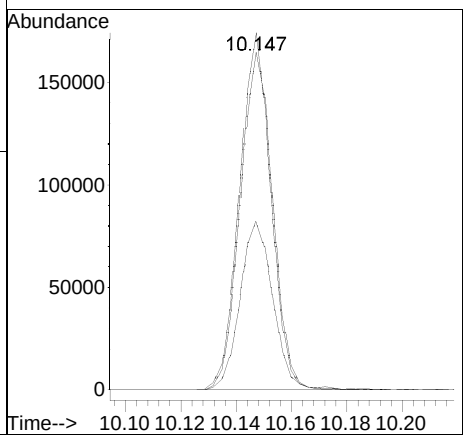


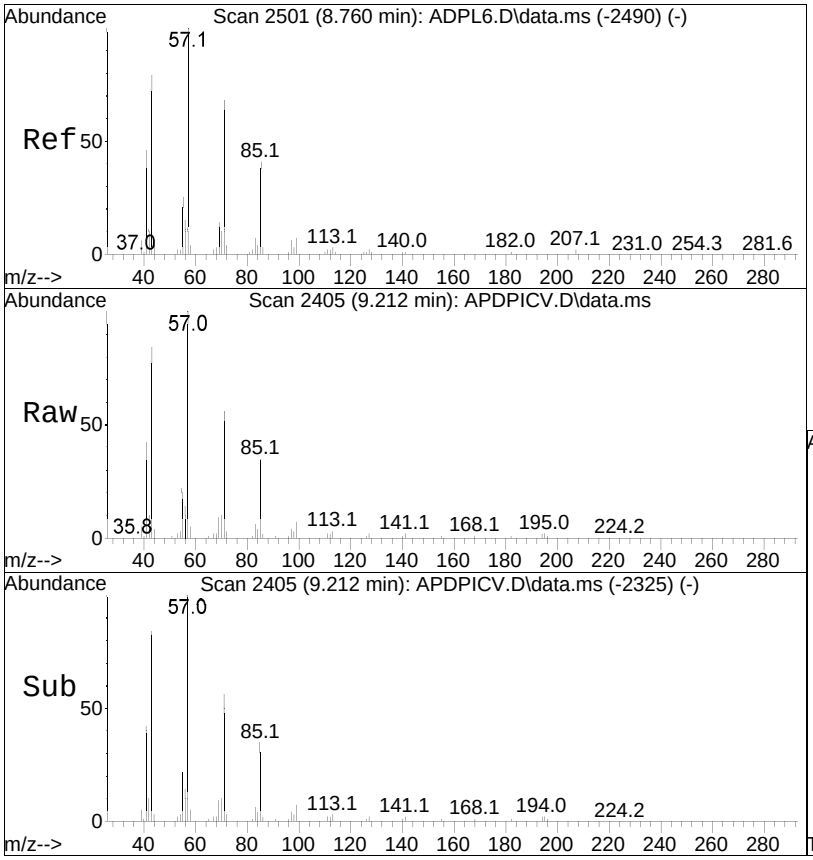


#96
Diphenamid
Concen: 10.37 ug/ml
RT: 10.147 min Scan# 2706
Delta R.T. 0.000 min
Lab File: APDPICV.D
Acq: 29 Feb 2024 4:45 am

Tgt Ion:167 Resp: 133931

Ion	Ratio	Lower	Upper
167	100		
72	102.1	109.7	164.5#
165	50.6	41.8	62.6

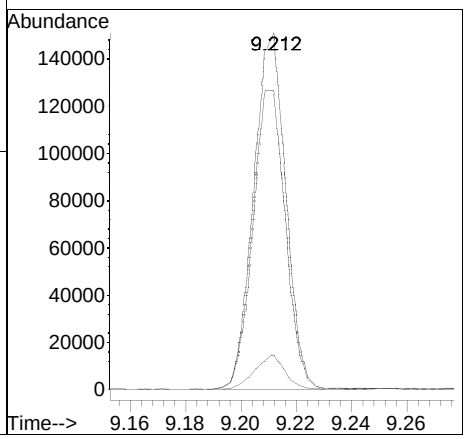


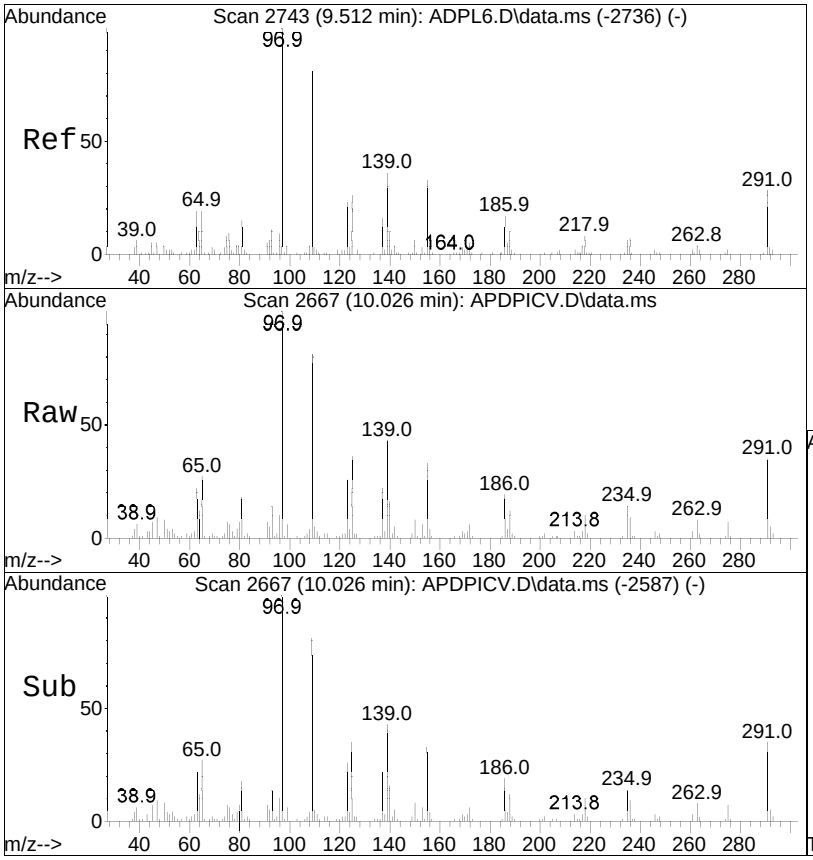


#97
n-Octadecane
Concen: 10.29 ug/ml
RT: 9.212 min Scan# 2405
Delta R.T. -0.000 min
Lab File: APDPICV.D
Acq: 29 Feb 2024 4:45 am

Tgt Ion: 57 Resp: 120664

Ion	Ratio	Lower	Upper
57	100		
43	84.9	9.0	13.6#
70	9.2	0.2	0.2#

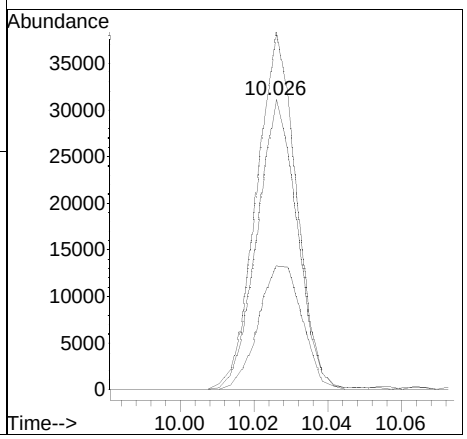


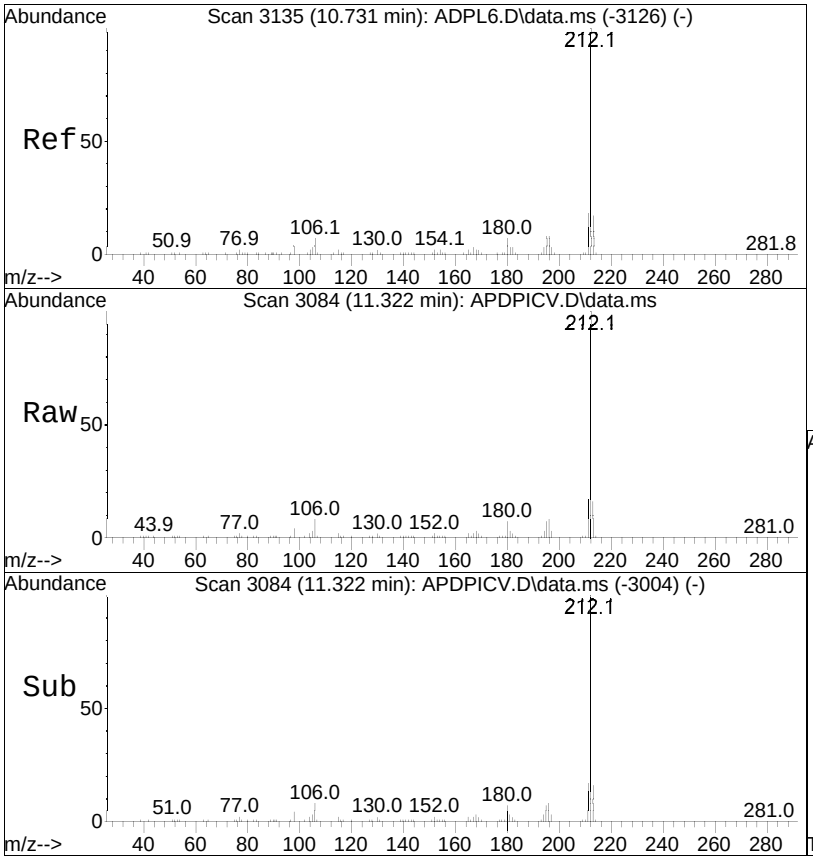


#98
Parathion
Concen: 9.70 ug/ml
RT: 10.026 min Scan# 2667
Delta R.T. 0.000 min
Lab File: APDPICV.D
Acq: 29 Feb 2024 4:45 am

Tgt Ion:109 Resp: 23442

Ion	Ratio	Lower	Upper
109	100		
97	122.6	87.4	131.2
291	46.7	34.2	51.2

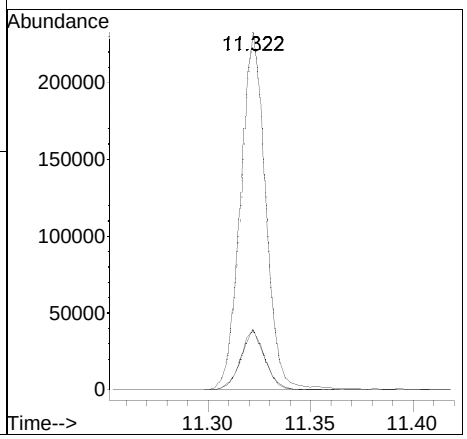




#99
3,3'-Dimethylbenzidine
Concen: 11.88 ug/ml
RT: 11.322 min Scan# 3084
Delta R.T. 0.000 min
Lab File: APDPICV.D
Acq: 29 Feb 2024 4:45 am

Tgt Ion:212 Resp: 195418

Ion	Ratio	Lower	Upper
212	100		
211	16.3	12.9	19.3
213	16.1	13.2	19.8



Manual Integration Report

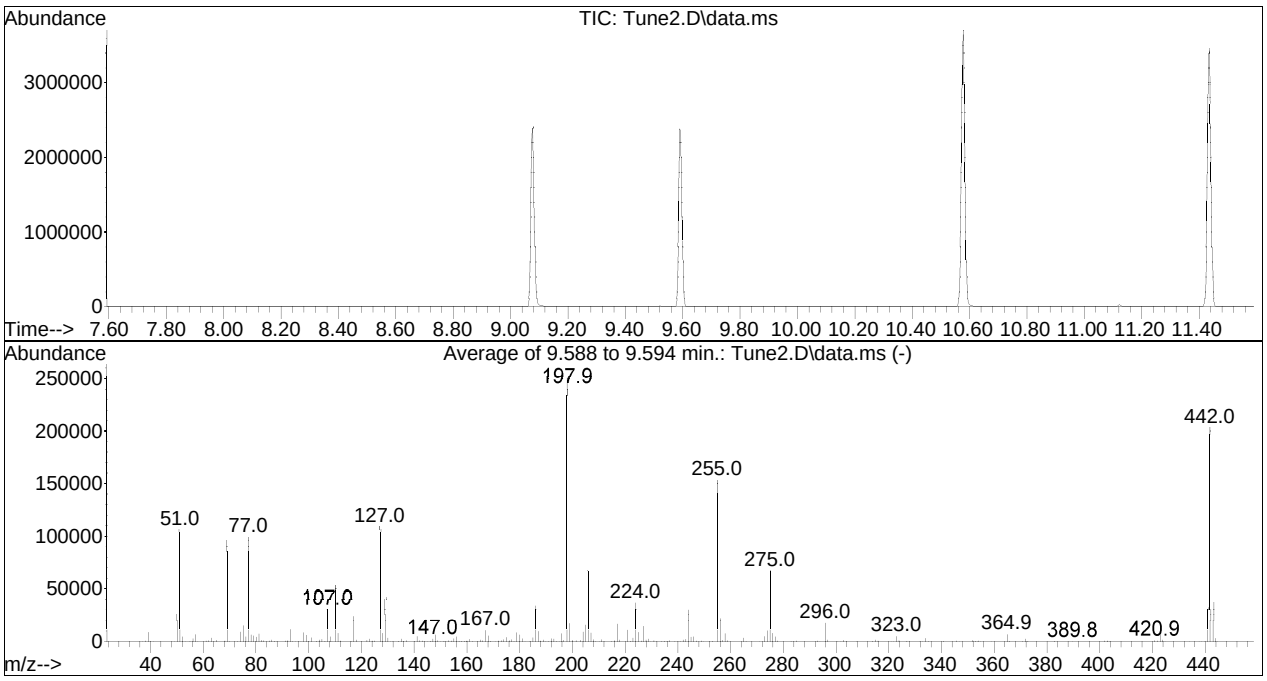
Data Path	: I:\8270\Dakota\240228ical\	QMethod	: FS240228LVIDakota.m
Data File	: APDPICV.D	Operator	: Dakota:ljg
Date Inj'd	: 2/29/2024 4:45 am	Instrument	: Dakota
Sample	: CQICV2,32,,APDPICV Lot# 10	Quant Date	: 2/29/2024 9:56 am

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

Data Path : I:\8270\Dakota\240228ical\
Data File : Tune2.D
Acq On : 29 Feb 2024 11:53 am
Operator : Dakota:ljg
Sample : Tune
Misc : WG1890771
ALS Vial : 100 Sample Multiplier: 1

Integration File: rteint.p

Method : I:\8270\Dakota\240228ical\FS240228LVIDakota.m
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Thu Feb 29 09:56:11 2024



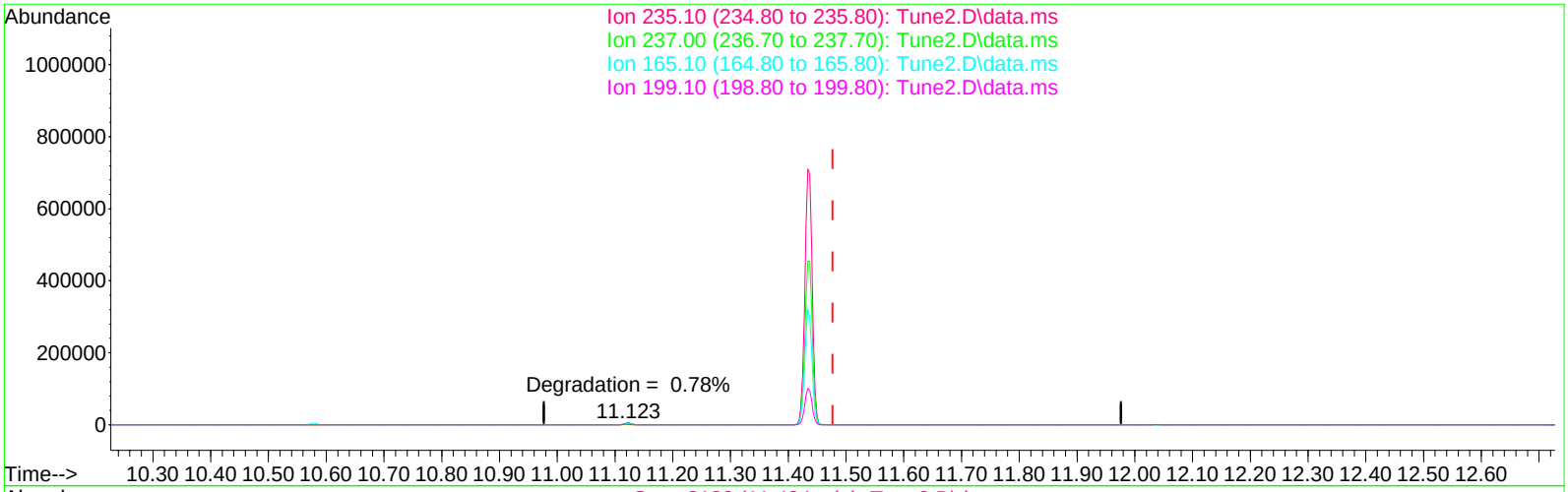
Spectrum Information: Average of 9.588 to 9.594 min.

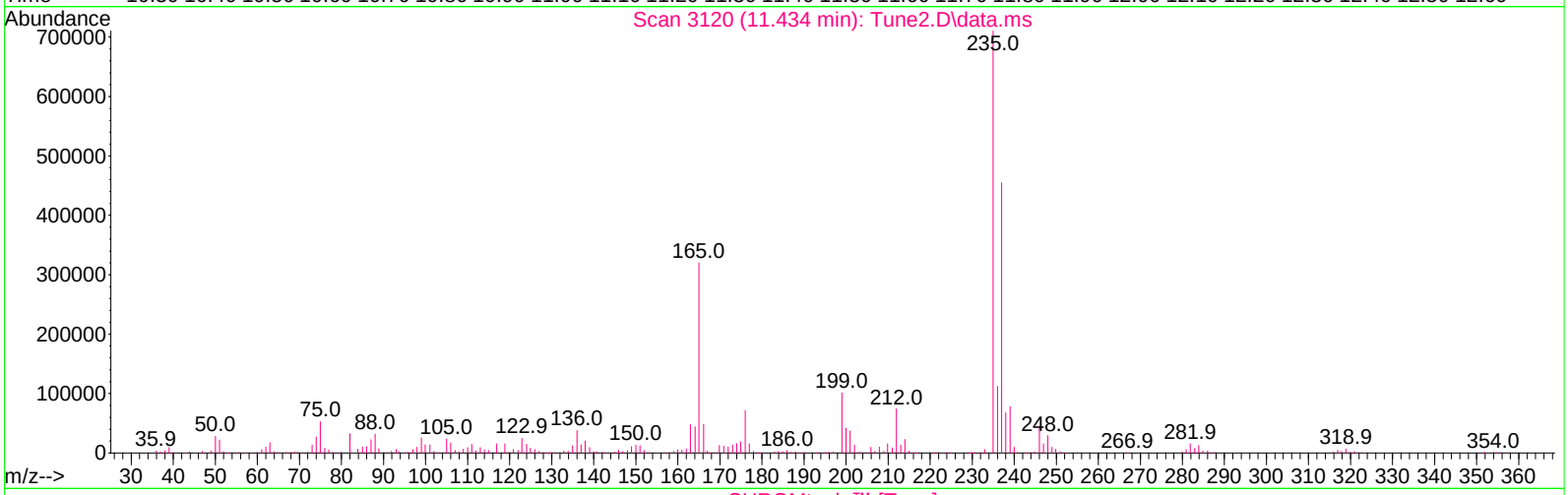
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	42.3	106077	PASS
68	69	0.00	2	1.4	1351	PASS
69	69	100	100	100.0	96250	PASS
70	69	0.00	2	0.7	717	PASS
127	198	10	80	43.5	109171	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	250944	PASS
199	198	5	9	6.8	17128	PASS
275	198	10	60	26.8	67160	PASS
365	198	1	100	2.8	6950	PASS
441	442	0.01	24	16.0	32459	PASS
442	198	50	100	80.9	203029	PASS
443	442	15	24	18.3	37109	PASS

Quantitation Report (Qedit)

Data Path : I:\8270\Dakota\240228ical\
Data File : Tune2.D
Acq On : 29 Feb 2024 11:53 am
Operator : Dakota:ljg
Sample : Tune
Misc : WG1890771
ALS Vial : 100 Sample Multiplier: 1

Quant Time: Feb 29 14:22:23 2024
Quant Method : I:\8270\Dakota\240228ical\DftppDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Feb 29 14:19:59 2024
Response via : Initial Calibration





CHROMtools™ [Tune]

(6) DDT (T)

11.434min (-0.043) 102.31

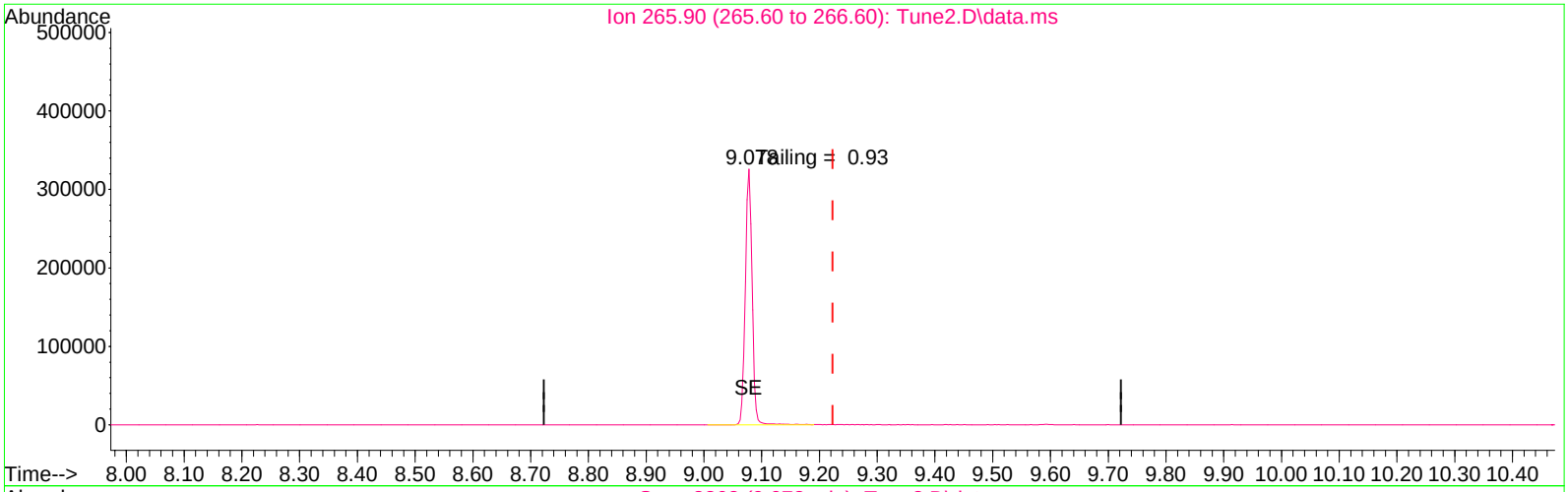
response 623629

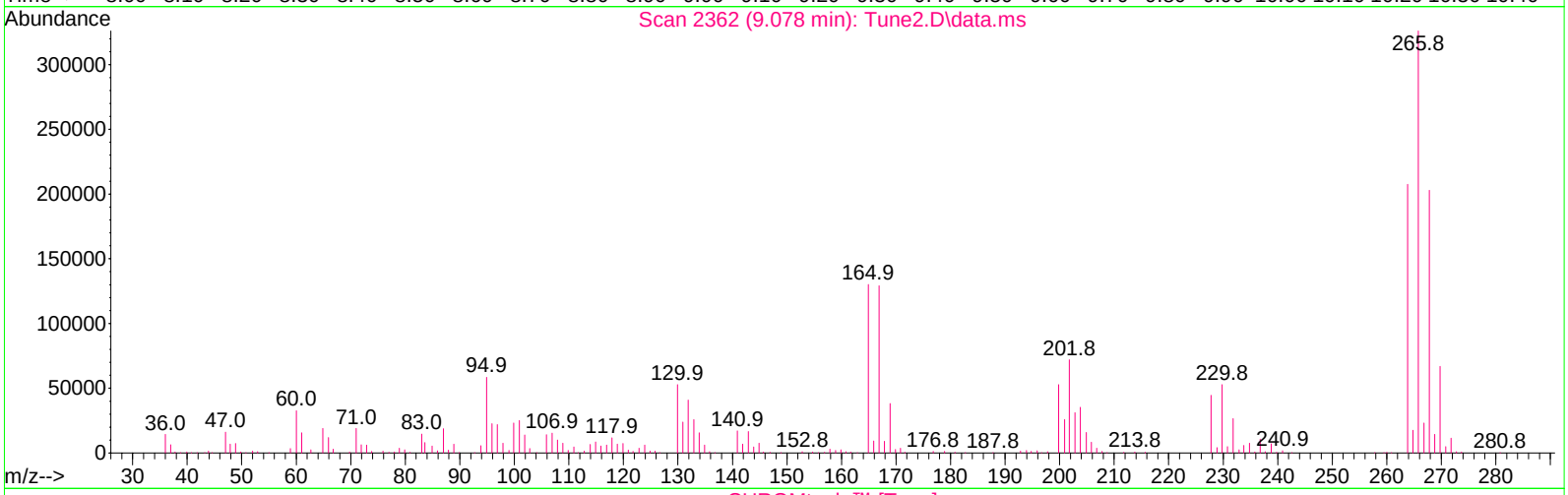
Ion	Exp%	Act%
235.10	100.00	100.00
237.00	65.30	64.77
165.10	49.60	44.04
199.10	15.70	14.13

Quantitation Report (Qedit)

Data Path : I:\8270\Dakota\240228ical\
Data File : Tune2.D
Acq On : 29 Feb 2024 11:53 am
Operator : Dakota:ljg
Sample : Tune
Misc : WG1890771
ALS Vial : 100 Sample Multiplier: 1

Quant Time: Feb 29 14:22:23 2024
Quant Method : I:\8270\Dakota\240228ical\DftppDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Feb 29 14:19:59 2024
Response via : Initial Calibration





CHROMtools™ [Tune]

(1) Pentachlorophenol (T)

9.078min (-0.145) 125.91

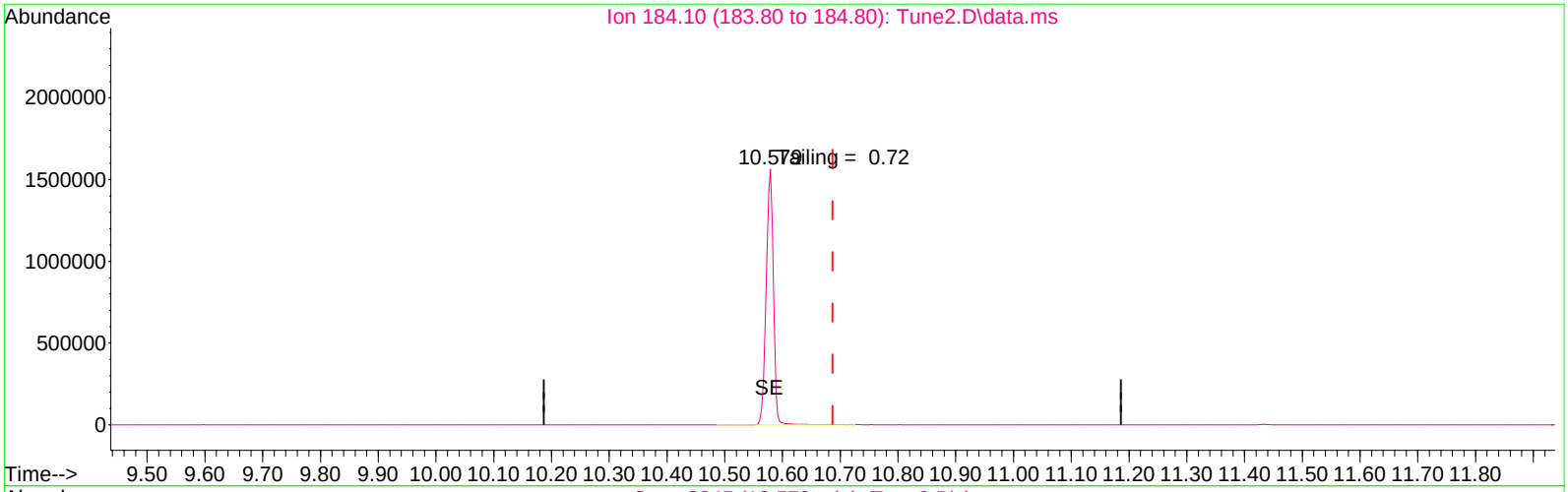
response 264459

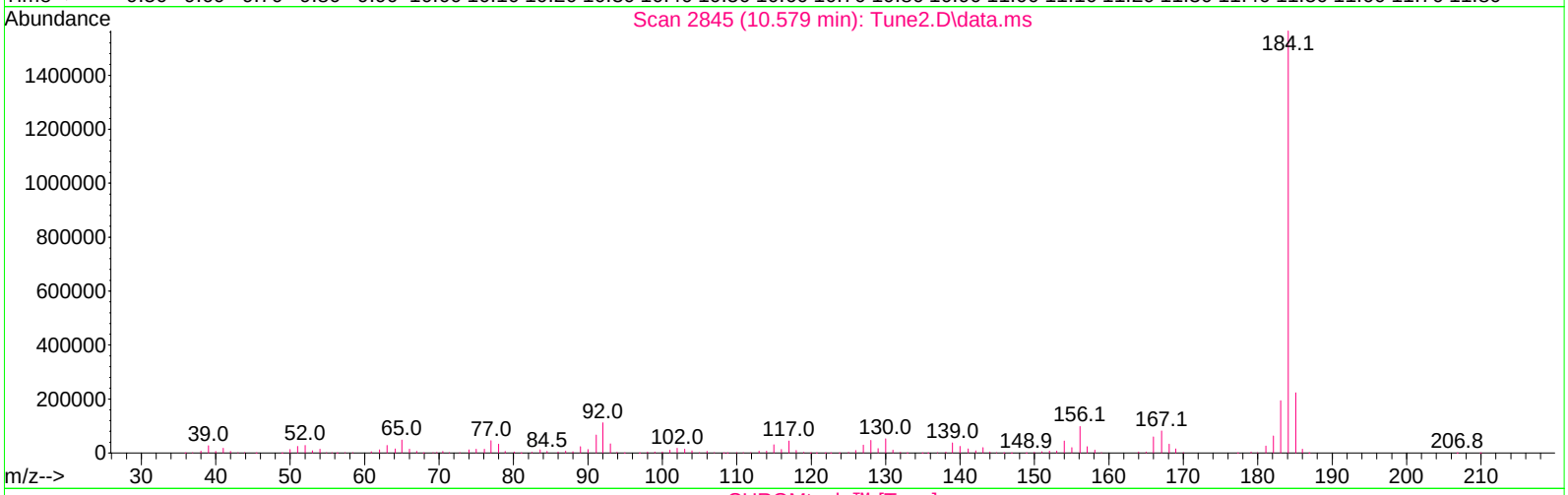
Ion	Exp%	Act%
265.90	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\8270\Dakota\240228ical\
Data File : Tune2.D
Acq On : 29 Feb 2024 11:53 am
Operator : Dakota:ljg
Sample : Tune
Misc : WG1890771
ALS Vial : 100 Sample Multiplier: 1

Quant Time: Feb 29 14:22:23 2024
Quant Method : I:\8270\Dakota\240228ical\DftppDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Feb 29 14:19:59 2024
Response via : Initial Calibration





CHROMtools™ [Tune]

(3) Benzidine (T)

10.579min (-0.108) 132.90

response 1352898

Ion	Exp%	Act%
184.10	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240228ical\
Data File : APDPICVa.D
Acq On : 29 Feb 2024 12:48 pm
Operator : Dakota:ljg
Sample : CQICV2,32,,APDPICV Lot# 10573
Misc : WG1890771,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 29 13:12:35 2024
Quant Method : I:\8270\Dakota\240228ical\FS240228LVIDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Feb 29 09:56:11 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\240228ical\APDPL6.D
Sub List : AP9ADP_REV1 - Combined adp and ap9 sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
27) IS2_1,4-Dichlorobenzen...	4.870	152	29934	4.000	ug/ml	0.00
Standard Area 1 = 24107			Recovery =	124.17%		
53) IS2_Naphthalene-d8	6.107	136	107251	4.000	ug/ml	# 0.00
Standard Area 1 = 86634			Recovery =	123.80%		
81) IS2_Acenaphthene-d10	7.816	164	70029	4.000	ug/ml	0.00
Standard Area 1 = 54508			Recovery =	128.47%		
95) IS2_Phenanthrene-d10	9.249	188	154820	4.000	ug/ml	0.00
Standard Area 1 = 119932			Recovery =	129.09%		
System Monitoring Compounds						
Target Compounds						Qvalue
28) Benzaldehyde	4.438	105	14341	3.973	ug/ml	98

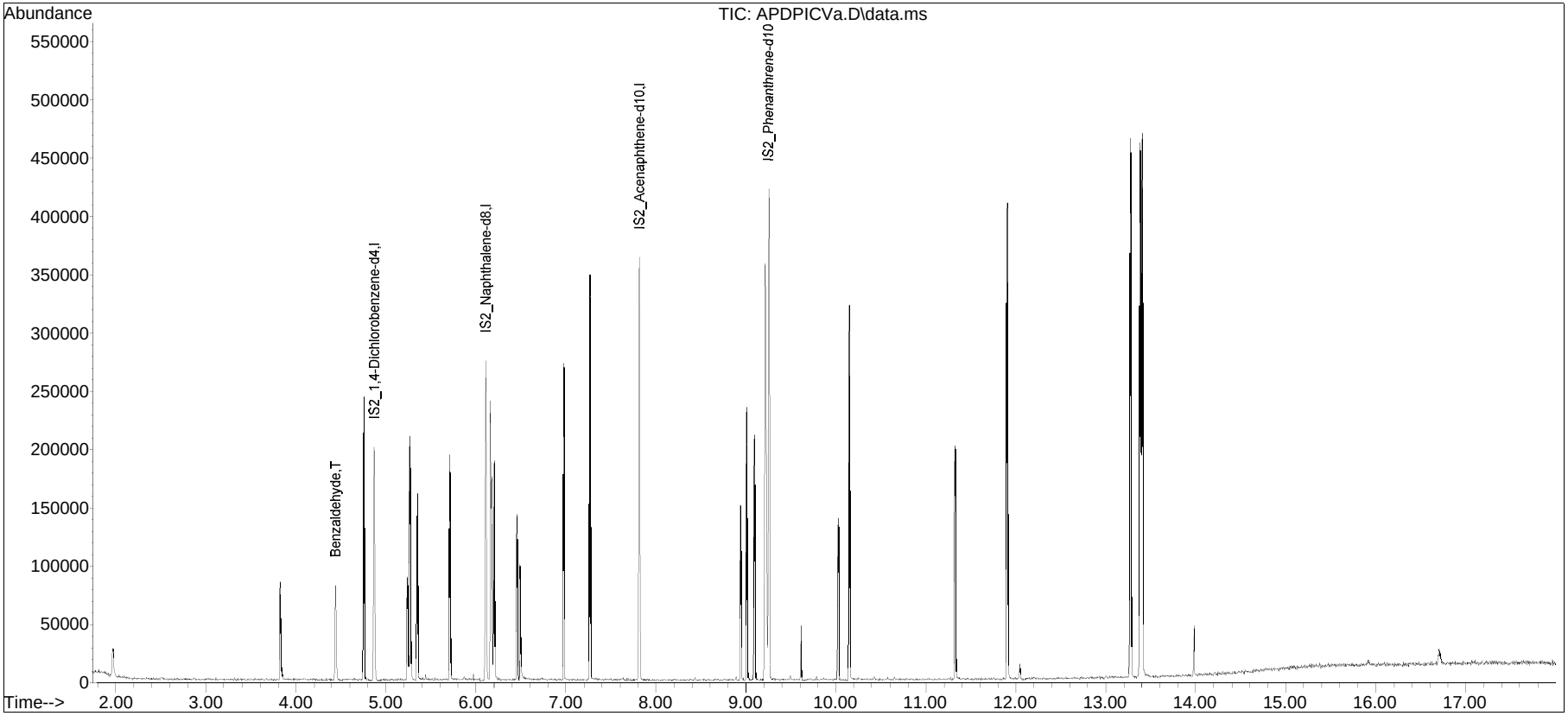
(#) = qualifier out of range (m) = manual integration (+) = signals summed

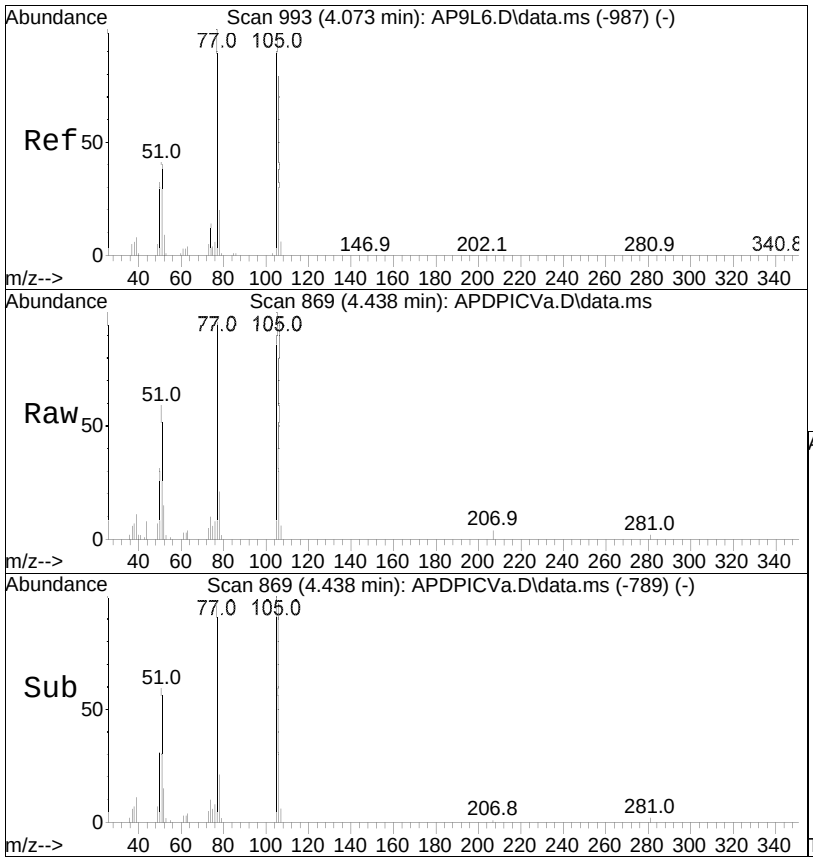
Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240228ical\
Data File : APDPICVa.D
Acq On : 29 Feb 2024 12:48 pm
Operator : Dakota:ljg
Sample : CQICV2,32,,APDPICV Lot# 10573
Misc : WG1890771,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 29 13:12:35 2024
Quant Method : I:\8270\Dakota\240228ical\FS240228LVIDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Feb 29 09:56:11 2024
Response via : Initial Calibration

Sub List : AP9ADP_REV1 - Combined adp and ap9 sublist

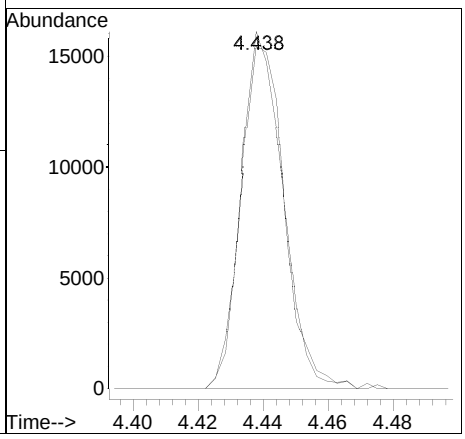




#28
Benzaldehyde
Concen: 3.97 ug/ml
RT: 4.438 min Scan# 869
Delta R.T. -0.000 min
Lab File: APDPICVa.D
Acq: 29 Feb 2024 12:48 pm

Tgt Ion:105 Resp: 14341

Ion	Ratio	Lower	Upper
105	100		
77	101.2	82.2	123.4



Manual Integration Report

Data Path	: I:\8270\Dakota\240228ical\	QMethod	: FS240228LVIDakota.m
Data File	: APDPICVa.D	Operator	: Dakota:ljg
Date Inj'd	: 2/29/2024 12:48 pm	Instrument	: Dakota
Sample	: CQICV2,32,,APDPICV Lot# 10	Quant Date	: 2/29/2024 1:10 pm

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

Evaluate Relative Error Report Dakota

Method Path : I:\8270\Dakota\240228ical\
Method File : FS240228LVIDakota.m
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Thu Feb 29 09:56:11 2024

	COMPOUND	CalFit	Units	TrueMid	MidConc	%RE	TrueLow	LowConc	%RE
35 T	Benzoic Acid	L	ug/ml	5.0	4.598	-8.0	2.00	2.210	10.5
64 T	2,4-Dinitrophenol	Q	ug/ml	5.0	4.476	-10.5	1.00	1.096	9.6
66 T	2,4-Dinitrotoluene	Q	ug/ml	5.0	4.662	-6.8	0.40	0.501	25.2
74 T	4,6-Dinitro-o-cresol	Q	ug/ml	5.0	4.586	-8.3	1.00	1.143	14.3
94 T	Butyl benzyl phthalate	L	ug/ml	5.0	4.646	-7.1	1.00	1.166	16.6
98 T	Parathion	Q	ug/ml	5.0	4.784	-4.3	1.00	1.100	10.0
99 T	3,3'-Dimethylbenzidine	Q	ug/ml	5.0	4.666	-6.7	0.40	0.498	24.5
104 T	Bis(2-ethylhexyl)phthalate	L	ug/ml	5.0	4.557	-8.9	0.40	0.515	28.7
105 T	Di-n-octylphthalate	L	ug/ml	5.0	4.485	-10.3	1.00	1.195	19.5

Calibration Correlation Report

	COMPOUND	CalFit	CoefOfDet	QuadTerm	LinTerm	Constant
35 T	Benzoic Acid	Linear	0.994153	0.000000	0.269788	-0.0976735
64 T	2,4-Dinitrophenol	Quadratic	0.996527	0.002472	0.17643	-0.0333303
66 T	2,4-Dinitrotoluene	Quadratic	0.996302	0.002388	0.394006	-0.0203126
74 T	4,6-Dinitro-o-cresol	Quadratic	0.997244	0.003094	0.238409	-0.0323906
94 T	Butyl benzyl phthalate	Linear	0.995704	0.000000	0.562985	-0.0648473
98 T	Parathion	Quadratic	0.998984	0.003941	0.0752438	-0.00331427
99 T	3,3'-Dimethylbenzidine	Quadratic	0.998632	0.018570	0.523309	-0.0316737
104 T	Bis(2-ethylhexyl)phthalate	Linear	0.994591	0.000000	0.796063	-0.0495983
105 T	Di-n-octylphthalate	Linear	0.995916	0.000000	1.47806	-0.233043

Continuing Calibration

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Alpha Geoscience	**Lab Number**	: L2410579		
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116		
Instrument ID	: DAKOTA	**Calibration Date**	: 03/02/24 13:55		
Lab File ID	: ABN0302	**Init. Calib. Date(s)**	: 02/28/24	02/29/24	
Sample No	: WG1891492-3	**Init. Calib. Times**	: 20:52	04:00	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS1_1,4-Dichlorobenzene-d4	1	1	-	0	20	99	0
n-Nitrosodimethylamine	0.745	0.687	-	7.8	20	92	0
Pyridine	1.122	1.127	-	-0.4	20	102	0
2-Fluorophenol	1.071	1.025	-	4.3	20	99	0
Aniline	1.612	1.43	-	11.3	20	90	0
2-Chlorophenol	1.171	1.096	-	6.4	20	95	0
Phenol-d6	1.383	1.255	-	9.3	20	93	0
Phenol	1.528	1.405	-	8	20	91	0
Bis(2-chloroethyl)ether	1.082	0.976	-	9.8	20	94	0
1,3-Dichlorobenzene	1.495	1.397	-	6.6	20	94	0
1,4-Dichlorobenzene	1.511	1.429	-	5.4	20	97	0
1,2-Dichlorobenzene	1.439	1.34	-	6.9	20	96	0
Benzyl alcohol	0.968	0.858	-	11.4	20	91	0
Bis(2-chloroisopropyl)ethe	2.201	1.918	-	12.9	20	87	0
2-Methylphenol	1.041	0.927	-	11	20	89	0
Hexachloroethane	0.551	0.506	-	8.2	20	95	0
n-Nitrosodi-n-propylamine	0.86	0.778	-	9.5	20	93	0
3-Methylphenol/4-Methylphe	1.138	1.009	-	11.3	20	93	0
Nitrobenzene-d5	1.246	1.076	-	13.6	20	87	0
Nitrobenzene	1.226	1.05	-	14.4	20	88	0
Isophorone	2.184	1.994	-	8.7	20	89	0
2-Nitrophenol	0.574	0.511	-	11	20	91	0
2,4-Dimethylphenol	0.896	0.769	-	14.2	20	88	0
Bis(2-chloroethoxy)methane	1.404	1.265	-	9.9	20	92	0
2,4-Dichlorophenol	1.152	1.08	-	6.2	20	91	0
1,2,4-Trichlorobenzene	1.48	1.377	-	7	20	93	0
IS1_Naphthalene-d8	1	1	-	0	20	98	0
Naphthalene	1.012	0.952	-	5.9	20	91	0
Benzoic Acid	5	4.61	-	7.8	20	98	0
4-Chloroaniline	0.129	0.117	-	9.3	20	86	0
Hexachlorobutadiene	0.251	0.245	-	2.4	20	92	0
p-Chloro-m-cresol	0.282	0.273	-	3.2	20	95	0
2-Methylnaphthalene	0.713	0.67	-	6	20	94	0
1-Methylnaphthalene	0.228	0.209	-	8.3	20	89	0
Hexachlorocyclopentadiene	0.234	0.228	-	2.6	20	97	0
2,4,6-Trichlorophenol	0.277	0.272	-	1.8	20	97	0
2,4,5-Trichlorophenol	0.303	0.301	-	0.7	20	95	0
2-Fluorobiphenyl	0.897	0.893	-	0.4	20	98	0
2-Chloronaphthalene	0.76	0.747	-	1.7	20	94	0
2-Nitroaniline	0.198	0.192	-	3	20	93	0
1,4-Dinitrobenzene	0.089	0.091	-	-2.2	20	97	0
1,3-Dinitrobenzene	0.106	0.106	-	0	20	101	0
Dimethyl phthalate	0.86	0.905	-	-5.2	20	102	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Alpha Geoscience	**Lab Number**	: L2410579		
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116		
Instrument ID	: DAKOTA	**Calibration Date**	: 03/02/24 13:55		
Lab File ID	: ABN0302	**Init. Calib. Date(s)**	: 02/28/24	02/29/24	
Sample No	: WG1891492-3	**Init. Calib. Times**	: 20:52	04:00	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Acenaphthylene	1.151	1.148	-	0.3	20	94	0
2,6-Dinitrotoluene	0.168	0.177	-	-5.4	20	101	0
1,2-Dinitrobenzene	0.067	0.067	-	0	20	96	0
IS1_Acenaphthene-d10	1	1	-	0	20	102	0
3-Nitroaniline	0.285	0.272	-	4.6	20	96	0
Acenaphthene	1.021	0.943	-	7.6	20	97	0
2,4-Dinitrophenol	5	4.884	-	2.3	20	113	0
Dibenzofuran	1.765	1.661	-	5.9	20	98	0
2,4-Dinitrotoluene	5	4.661	-	6.8	20	102	0
4-Nitrophenol	0.235	0.213	-	9.4	20	96	0
2,3,5,6-Tetrachlorophenol	0.414	0.401	-	3.1	20	100	0
2,3,4,6-Tetrachlorophenol	0.397	0.386	-	2.8	20	98	0
Diethyl phthalate	1.34	1.259	-	6	20	98	0
Fluorene	1.35	1.242	-	8	20	96	0
4-Chlorophenyl phenyl ethe	0.713	0.674	-	5.5	20	99	0
4-Nitroaniline	0.283	0.271	-	4.2	20	97	0
4,6-Dinitro-o-cresol	5	4.78	-	4.4	20	107	0
NDPA/DPA	1.118	1.067	-	4.6	20	99	0
Azobenzene	1.188	1.078	-	9.3	20	95	0
2,4,6-Tribromophenol	0.263	0.258	-	1.9	20	104	0
4-Bromophenyl phenyl ether	0.455	0.436	-	4.2	20	100	0
Hexachlorobenzene	0.556	0.545	-	2	20	106	0
Pentachlorophenol	0.37	0.328	-	11.4	20	98	0
IS1_Phenanthrene-d10	1	1	-	0	20	107	0
Phenanthrene	1.038	0.93	-	10.4	20	98	0
Anthracene	1.027	0.95	-	7.5	20	101	0
Carbazole	0.968	0.892	-	7.9	20	99	0
Di-n-butylphthalate	1.074	0.936	-	12.8	20	95	0
Fluoranthene	1.291	1.19	-	7.8	20	103	0
Benzidine	0.761	0.686	-	9.9	20	95	0
Pyrene	1.359	1.253	-	7.8	20	100	0
4-Terphenyl-d14	1.045	0.984	-	5.8	20	102	0
Butyl benzyl phthalate	5	4.123	-	17.5	20	94	0
IS1_Chrysene-d12	1	1	-	0	20	110	0
Benzo(a)anthracene	1.368	1.225	-	10.5	20	103	0
3,3'-Dichlorobenzidine	0.514	0.463	-	9.9	20	101	0
Chrysene	1.333	1.17	-	12.2	20	101	0
Bis(2-ethylhexyl)phthalate	5	3.803	-	23.9*	20	91	0
Di-n-octylphthalate	5	3.825	-	23.5*	20	91	0
Benzo(b)fluoranthene	1.411	1.307	-	7.4	20	105	0
Benzo(k)fluoranthene	1.392	1.241	-	10.8	20	100	0
Benzo(a)pyrene	1.302	1.19	-	8.6	20	102	0
IS1_Perylene-d12	1	1	-	0	20	111	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Alpha Geoscience		**Lab Number**	: L2410579	
Project Name	: HUNTINGTON READY MIX		**Project Number**	: 20116	
Instrument ID	: DAKOTA		**Calibration Date**	: 03/02/24 13:55	
Lab File ID	: ABN0302		**Init. Calib. Date(s)**	: 02/28/24	02/29/24
Sample No	: WG1891492-3		**Init. Calib. Times**	: 20:52	04:00
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Indeno(1,2,3-cd)pyrene	1.256	1.111	-	11.5	20	100	0
Dibenzo(a,h)anthracene	1.175	1.083	-	7.8	20	101	0
Benzo(ghi)perylene	1.182	1.046	-	11.5	20	98	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Alpha Geoscience	**Lab Number**	: L2410579		
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116		
Instrument ID	: DAKOTA	**Calibration Date**	: 03/02/24 14:17		
Lab File ID	: APDP0302	**Init. Calib. Date(s)**	: 02/28/24	02/29/24	
Sample No	: WG1891492-4	**Init. Calib. Times**	: 20:52	04:00	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS2_1,4-Dichlorobenzene-d4	1	1	-	0	20	83	0
Benzaldehyde	0.482	0.481	-	0.2	20	84	0
Acetophenone	1.694	1.701	-	-0.4	20	84	0
m-Toluidine	1.213	1.258	-	-3.7	20	84	0
2-Chloroaniline	1.433	1.506	-	-5.1	20	86	0
n-Decane	1.418	1.297	-	8.5	20	78	0
IS2_Naphthalene-d8	1	1	-	0	20	82	0
a-Terpineol	0.299	0.286	-	4.3	20	80	0
3-Chloroaniline	0.132	0.134	-	-1.5	20	84	0
2,6-Dichlorophenol	0.316	0.331	-	-4.7	20	85	0
1-chloro-2-nitrobenzene	0.129	0.133	-	-3.1	20	82	0
Caprolactam	0.165	0.167	-	-1.2	20	90	0
1,2,4,5-Tetrachlorobenzene	0.447	0.488	-	-9.2	20	92	0
Biphenyl	0.891	0.946	-	-6.2	20	86	0
IS2_Acenaphthene-d10	1	1	-	0	20	89	0
Dichloran	0.178	0.183	-	-2.8	20	104	0
Pentachloronitrobenzene	0.19	0.191	-	-0.5	20	90	0
Atrazine	0.384	0.439	-	-14.3	20	102	0
IS2_Phenanthrene-d10	1	1	-	0	20	95	0
Diphenamid	0.446	0.466	-	-4.5	20	99	0
n-Octadecane	0.405	0.344	-	15.1	20	79	0
Parathion	5	4.856	-	2.9	20	97	0
3,3'-Dimethylbenzidine	5	4.708	-	5.8	20	96	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Alpha Geoscience	**Lab Number**	: L2410579		
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116		
Instrument ID	: DAKOTA	**Calibration Date**	: 03/03/24 12:02		
Lab File ID	: ABN0303	**Init. Calib. Date(s)**	: 02/28/24	02/29/24	
Sample No	: WG1891643-3	**Init. Calib. Times**	: 20:52	04:00	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS1_1,4-Dichlorobenzene-d4	1	1	-	0	20	107	0
n-Nitrosodimethylamine	0.745	0.645	-	13.4	20	94	0
Pyridine	1.122	0.997	-	11.1	20	98	0
2-Fluorophenol	1.071	0.942	-	12	20	99	0
Aniline	1.612	1.389	-	13.8	20	95	0
2-Chlorophenol	1.171	1.061	-	9.4	20	99	0
Phenol-d6	1.383	1.242	-	10.2	20	99	0
Phenol	1.528	1.341	-	12.2	20	94	0
Bis(2-chloroethyl)ether	1.082	0.956	-	11.6	20	100	0
1,3-Dichlorobenzene	1.495	1.388	-	7.2	20	102	0
1,4-Dichlorobenzene	1.511	1.41	-	6.7	20	104	0
1,2-Dichlorobenzene	1.439	1.339	-	6.9	20	104	0
Benzyl alcohol	0.968	0.83	-	14.3	20	96	0
Bis(2-chloroisopropyl)ethe	2.201	1.989	-	9.6	20	98	0
2-Methylphenol	1.041	0.923	-	11.3	20	96	0
Hexachloroethane	0.551	0.511	-	7.3	20	104	0
n-Nitrosodi-n-propylamine	0.86	0.745	-	13.4	20	97	0
3-Methylphenol/4-Methylphe	1.138	1.004	-	11.8	20	100	0
Nitrobenzene-d5	1.246	1.096	-	12	20	96	0
Nitrobenzene	1.226	1.062	-	13.4	20	97	0
Isophorone	2.184	1.965	-	10	20	95	0
2-Nitrophenol	0.574	0.531	-	7.5	20	103	0
2,4-Dimethylphenol	0.896	0.791	-	11.7	20	98	0
Bis(2-chloroethoxy)methane	1.404	1.277	-	9	20	100	0
2,4-Dichlorophenol	1.152	1.112	-	3.5	20	102	0
1,2,4-Trichlorobenzene	1.48	1.385	-	6.4	20	102	0
IS1_Naphthalene-d8	1	1	-	0	20	108	0
Naphthalene	1.012	0.947	-	6.4	20	100	0
Benzoic Acid	5	4.525	-	9.5	20	106	0
4-Chloroaniline	0.129	0.113	-	12.4	20	91	0
Hexachlorobutadiene	0.251	0.254	-	-1.2	20	106	0
p-Chloro-m-cresol	0.282	0.255	-	9.6	20	98	0
2-Methylnaphthalene	0.713	0.666	-	6.6	20	104	0
1-Methylnaphthalene	0.228	0.209	-	8.3	20	98	0
Hexachlorocyclopentadiene	0.234	0.232	-	0.9	20	109	0
2,4,6-Trichlorophenol	0.277	0.279	-	-0.7	20	110	0
2,4,5-Trichlorophenol	0.303	0.293	-	3.3	20	102	0
2-Fluorobiphenyl	0.897	0.871	-	2.9	20	106	0
2-Chloronaphthalene	0.76	0.733	-	3.6	20	102	0
2-Nitroaniline	0.198	0.193	-	2.5	20	103	0
1,4-Dinitrobenzene	0.089	0.097	-	-9	20	114	0
1,3-Dinitrobenzene	0.106	0.106	-	0	20	112	0
Dimethyl phthalate	0.86	0.894	-	-4	20	111	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Alpha Geoscience	**Lab Number**	: L2410579		
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116		
Instrument ID	: DAKOTA	**Calibration Date**	: 03/03/24 12:02		
Lab File ID	: ABN0303	**Init. Calib. Date(s)**	: 02/28/24	02/29/24	
Sample No	: WG1891643-3	**Init. Calib. Times**	: 20:52	04:00	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Acenaphthylene	1.151	1.12	-	2.7	20	102	0
2,6-Dinitrotoluene	0.168	0.171	-	-1.8	20	107	0
1,2-Dinitrobenzene	0.067	0.067	-	0	20	106	0
IS1_Acenaphthene-d10	1	1	-	0	20	107	0
3-Nitroaniline	0.285	0.268	-	6	20	100	0
Acenaphthene	1.021	0.949	-	7.1	20	102	0
2,4-Dinitrophenol	5	5.016	-	-0.3	20	122	0
Dibenzofuran	1.765	1.679	-	4.9	20	104	0
2,4-Dinitrotoluene	5	4.86	-	2.8	20	112	0
4-Nitrophenol	0.235	0.219	-	6.8	20	104	0
2,3,5,6-Tetrachlorophenol	0.414	0.414	-	0	20	108	0
2,3,4,6-Tetrachlorophenol	0.397	0.401	-	-1	20	107	0
Diethyl phthalate	1.34	1.326	-	1	20	108	0
Fluorene	1.35	1.306	-	3.3	20	106	0
4-Chlorophenyl phenyl ethe	0.713	0.717	-	-0.6	20	111	0
4-Nitroaniline	0.283	0.272	-	3.9	20	103	0
4,6-Dinitro-o-cresol	5	5.073	-	-1.5	20	120	0
NDPA/DPA	1.118	1.102	-	1.4	20	107	0
Azobenzene	1.188	1.101	-	7.3	20	102	0
2,4,6-Tribromophenol	0.263	0.27	-	-2.7	20	115	0
4-Bromophenyl phenyl ether	0.455	0.471	-	-3.5	20	114	0
Hexachlorobenzene	0.556	0.567	-	-2	20	116	0
Pentachlorophenol	0.37	0.344	-	7	20	108	0
IS1_Phenanthrene-d10	1	1	-	0	20	115	0
Phenanthrene	1.038	0.941	-	9.3	20	106	0
Anthracene	1.027	0.948	-	7.7	20	108	0
Carbazole	0.968	0.879	-	9.2	20	104	0
Di-n-butylphthalate	1.074	1.013	-	5.7	20	110	0
Fluoranthene	1.291	1.18	-	8.6	20	109	0
Benzidine	0.761	0.698	-	8.3	20	103	0
Pyrene	1.359	1.244	-	8.5	20	107	0
4-Terphenyl-d14	1.045	1.018	-	2.6	20	113	0
Butyl benzyl phthalate	5	4.37	-	12.6	20	107	0
IS1_Chrysene-d12	1	1	-	0	20	118	0
Benzo(a)anthracene	1.368	1.233	-	9.9	20	111	0
3,3'-Dichlorobenzidine	0.514	0.464	-	9.7	20	109	0
Chrysene	1.333	1.166	-	12.5	20	109	0
Bis(2-ethylhexyl)phthalate	5	4.35	-	13	20	113	0
Di-n-octylphthalate	5	4.249	-	15	20	111	0
Benzo(b)fluoranthene	1.411	1.304	-	7.6	20	112	0
Benzo(k)fluoranthene	1.392	1.237	-	11.1	20	108	0
Benzo(a)pyrene	1.302	1.17	-	10.1	20	108	0
IS1_Perylene-d12	1	1	-	0	20	120	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Alpha Geoscience		**Lab Number**	: L2410579	
Project Name	: HUNTINGTON READY MIX		**Project Number**	: 20116	
Instrument ID	: DAKOTA		**Calibration Date**	: 03/03/24 12:02	
Lab File ID	: ABN0303		**Init. Calib. Date(s)**	: 02/28/24	02/29/24
Sample No	: WG1891643-3		**Init. Calib. Times**	: 20:52	04:00
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Indeno(1,2,3-cd)pyrene	1.256	1.15	-	8.4	20	112	0
Dibenzo(a,h)anthracene	1.175	1.059	-	9.9	20	107	0
Benzo(ghi)perylene	1.182	1.023	-	13.5	20	104	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Alpha Geoscience	**Lab Number**	: L2410579		
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116		
Instrument ID	: DAKOTA	**Calibration Date**	: 03/03/24 12:24		
Lab File ID	: APDP0303	**Init. Calib. Date(s)**	: 02/28/24	02/29/24	
Sample No	: WG1891643-4	**Init. Calib. Times**	: 20:52	04:00	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS2_1,4-Dichlorobenzene-d4	1	1	-	0	20	108	0
Benzaldehyde	0.482	0.387	-	19.7	20	88	0
Acetophenone	1.694	1.391	-	17.9	20	89	0
m-Toluidine	1.213	1.007	-	17	20	87	0
2-Chloroaniline	1.433	1.222	-	14.7	20	91	0
n-Decane	1.418	1.134	-	20	20	89	0
IS2_Naphthalene-d8	1	1	-	0	20	109	0
a-Terpineol	0.299	0.24	-	19.7	20	89	0
3-Chloroaniline	0.132	0.104	-	21.2*	20	88	0
2,6-Dichlorophenol	0.316	0.265	-	16.1	20	91	0
1-chloro-2-nitrobenzene	0.129	0.11	-	14.7	20	91	0
Caprolactam	0.165	0.132	-	20	20	96	0
1,2,4,5-Tetrachlorobenzene	0.447	0.389	-	13	20	98	0
Biphenyl	0.891	0.759	-	14.8	20	92	0
IS2_Acenaphthene-d10	1	1	-	0	20	120	0
Dichloran	0.178	0.145	-	18.5	20	112	0
Pentachloronitrobenzene	0.19	0.157	-	17.4	20	101	0
Atrazine	0.384	0.315	-	18	20	99	0
IS2_Phenanthrene-d10	1	1	-	0	20	128	0
Diphenamid	0.446	0.359	-	19.5	20	103	0
n-Octadecane	0.405	0.295	-	27.2*	20	92	0
Parathion	5	4.059	-	18.8	20	107	0
3,3'-Dimethylbenzidine	5	3.483	-	30.3*	20	93	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Alpha Geoscience	**Lab Number**	: L2410579		
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116		
Instrument ID	: SV106	**Calibration Date**	: 03/05/24 00:10		
Lab File ID	: ABN0304N	**Init. Calib. Date(s)**	: 09/02/23	09/03/23	
Sample No	: WG1891342-3	**Init. Calib. Times**	: 12:13	00:52	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS1_1,4-Dichlorobenzene-d4	1	1	-	0	20	103	0
n-Nitrosodimethylamine	0.677	0.721	-	-6.5	20	119	0
Pyridine	1.151	1.068	-	7.2	20	103	0
2-Fluorophenol	1.116	1.094	-	2	20	113	0
Aniline	1.893	1.573	-	16.9	20	94	0
2-Chlorophenol	1.274	1.209	-	5.1	20	105	0
Phenol-d6	1.437	1.427	-	0.7	20	110	0
Phenol	1.521	1.456	-	4.3	20	109	0
Bis(2-chloroethyl)ether	1.222	1.164	-	4.7	20	107	0
1,3-Dichlorobenzene	1.461	1.381	-	5.5	20	106	0
1,4-Dichlorobenzene	1.503	1.391	-	7.5	20	106	0
1,2-Dichlorobenzene	1.431	1.353	-	5.5	20	108	0
Benzyl alcohol	1.074	1.038	-	3.4	20	108	0
Bis(2-chloroisopropyl)ethe	1.8	1.822	-	-1.2	20	114	0
2-Methylphenol	1.138	1.029	-	9.6	20	104	0
Hexachloroethane	0.586	0.551	-	6	20	106	0
n-Nitrosodi-n-propylamine	0.923	0.844	-	8.6	20	104	0
3-Methylphenol/4-Methylphe	1.193	1.093	-	8.4	20	103	0
Nitrobenzene-d5	1.303	1.37	-	-5.1	20	121	0
Nitrobenzene	1.295	1.316	-	-1.6	20	114	0
Isophorone	2.478	2.297	-	7.3	20	106	0
2-Nitrophenol	0.518	0.641	-	-23.7*	20	141	0
2,4-Dimethylphenol	1.281	0.762	-	40.5*	20	65	0
Bis(2-chloroethoxy)methane	1.552	1.492	-	3.9	20	108	0
2,4-Dichlorophenol	1.076	1.1	-	-2.2	20	111	0
1,2,4-Trichlorobenzene	1.235	1.26	-	-2	20	117	0
IS1_Naphthalene-d8	1	1	-	0	20	102	0
Naphthalene	1.008	0.915	-	9.2	20	105	0
Benzoic Acid	5	5.4	-	-8	20	132	0
4-Chloroaniline	0.132	0.126	-	4.5	20	108	0
Hexachlorobutadiene	0.206	0.199	-	3.4	20	113	0
p-Chloro-m-cresol	0.291	0.28	-	3.8	20	107	0
2-Methylnaphthalene	0.642	0.627	-	2.3	20	112	0
1-Methylnaphthalene	0.241	0.222	-	7.9	20	104	0
Hexachlorocyclopentadiene	0.219	0.181	-	17.4	20	95	0
2,4,6-Trichlorophenol	0.209	0.224	-	-7.2	20	125	0
2,4,5-Trichlorophenol	0.224	0.241	-	-7.6	20	126	0
2-Fluorobiphenyl	0.764	0.759	-	0.7	20	115	0
2-Chloronaphthalene	0.669	0.628	-	6.1	20	107	0
2-Nitroaniline	5	5.094	-	-1.9	20	124	0
1,4-Dinitrobenzene	5	6.371	-	-27.4*	20	172	0
1,3-Dinitrobenzene	5	6.103	-	-22.1*	20	153	0
Dimethyl phthalate	0.787	0.77	-	2.2	20	111	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Alpha Geoscience	**Lab Number**	: L2410579		
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116		
Instrument ID	: SV106	**Calibration Date**	: 03/05/24 00:10		
Lab File ID	: ABN0304N	**Init. Calib. Date(s)**	: 09/02/23	09/03/23	
Sample No	: WG1891342-3	**Init. Calib. Times**	: 12:13	00:52	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Acenaphthylene	1.077	0.988	-	8.3	20	106	0
2,6-Dinitrotoluene	5	5.461	-	-9.2	20	135	0
1,2-Dinitrobenzene	0.063	0.073	-	-15.9	20	133	0
IS1_Acenaphthene-d10	1	1	-	0	20	115	0
3-Nitroaniline	0.286	0.28	-	2.1	20	124	0
Acenaphthene	1.131	0.933	-	17.5	20	108	0
2,4-Dinitrophenol	5	6.503	-	-30.1*	20	185	0
Dibenzofuran	1.69	1.493	-	11.7	20	114	0
2,4-Dinitrotoluene	5	5.436	-	-8.7	20	151	0
4-Nitrophenol	5	4.917	-	1.7	20	136	0
2,3,5,6-Tetrachlorophenol	0.325	0.346	-	-6.5	20	134	0
2,3,4,6-Tetrachlorophenol	0.337	0.329	-	2.4	20	124	0
Diethyl phthalate	1.415	1.233	-	12.9	20	109	0
Fluorene	1.336	1.216	-	9	20	116	0
4-Chlorophenyl phenyl ethe	0.637	0.602	-	5.5	20	123	0
4-Nitroaniline	0.289	0.279	-	3.5	20	116	0
4,6-Dinitro-o-cresol	5	6.94	-	-38.8*	20	219	0
NDPA/DPA	1.124	1.019	-	9.3	20	114	0
Azobenzene	1.319	1.098	-	16.8	20	106	0
2,4,6-Tribromophenol	0.184	0.181	-	1.6	20	123	0
4-Bromophenyl phenyl ether	0.371	0.345	-	7	20	120	0
Hexachlorobenzene	0.432	0.385	-	10.9	20	118	0
Pentachlorophenol	5	5.004	-	-0.1	20	138	0
IS1_Phenanthrene-d10	1	1	-	0	20	126	0
Phenanthrene	1.089	0.888	-	18.5	20	115	0
Anthracene	1.084	0.907	-	16.3	20	117	0
Carbazole	0.991	0.843	-	14.9	20	117	0
Di-n-butylphthalate	1.269	1.014	-	20.1*	20	110	0
Fluoranthene	1.165	1.061	-	8.9	20	129	0
Benzidine	0.77	0.575	-	25.3*	20	103	0
Pyrene	1.233	1.095	-	11.2	20	126	0
4-Terphenyl-d14	0.877	0.781	-	10.9	20	124	0
Butyl benzyl phthalate	0.541	0.434	-	19.8	20	111	0
IS1_Chrysene-d12	1	1	-	0	20	126	0
Benzo(a)anthracene	1.326	1.154	-	13	20	122	0
3,3'-Dichlorobenzidine	0.472	0.41	-	13.1	20	118	0
Chrysene	1.231	1.106	-	10.2	20	127	0
Bis(2-ethylhexyl)phthalate	0.889	0.718	-	19.2	20	109	0
Di-n-octylphthalate	1.499	1.216	-	18.9	20	109	0
Benzo(b)fluoranthene	1.266	1.145	-	9.6	20	128	0
Benzo(k)fluoranthene	1.214	1.016	-	16.3	20	110	0
Benzo(a)pyrene	1.083	1.033	-	4.6	20	131	0
IS1_Perylene-d12	1	1	-	0	20	124	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Alpha Geoscience		**Lab Number**	: L2410579	
Project Name	: HUNTINGTON READY MIX		**Project Number**	: 20116	
Instrument ID	: SV106		**Calibration Date**	: 03/05/24 00:10	
Lab File ID	: ABN0304N		**Init. Calib. Date(s)**	: 09/02/23	09/03/23
Sample No	: WG1891342-3		**Init. Calib. Times**	: 12:13	00:52
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Indeno(1,2,3-cd)pyrene	0.935	0.943	-	-0.9	20	141	0
Dibenzo(a,h)anthracene	0.999	0.919	-	8	20	124	0
Benzo(ghi)perylene	0.991	0.863	-	12.9	20	119	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Alpha Geoscience	**Lab Number**	: L2410579		
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116		
Instrument ID	: SV106	**Calibration Date**	: 03/05/24 00:34		
Lab File ID	: AP90304N	**Init. Calib. Date(s)**	: 09/02/23	09/03/23	
Sample No	: WG1891342-4	**Init. Calib. Times**	: 12:13	00:52	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS2_1,4-Dichlorobenzene-d4	1	1	-	0	20	102	0
Benzaldehyde	0.928	0.931	-	-0.3	20	73	0
Acetophenone	1.994	1.601	-	19.7	20	63	0
m-Toluidine	1.55	1.54	-	0.6	20	72	0
2-Chloroaniline	1.67	1.439	-	13.8	20	67	0
IS2_Naphthalene-d8	1	1	-	0	20	98	0
a-Terpineol	0.289	0.281	-	2.8	20	73	0
3-Chloroaniline	0.15	0.147	-	2	20	71	0
2,6-Dichlorophenol	0.277	0.267	-	3.6	20	69	0
1-chloro-2-nitrobenzene	0.131	0.137	-	-4.6	20	77	0
Caprolactam	0.147	0.162	-	-10.2	20	79	0
1,2,4,5-Tetrachlorobenzene	0.348	0.343	-	1.4	20	75	0
Biphenyl	0.856	0.809	-	5.5	20	71	0
IS2_Acenaphthene-d10	1	1	-	0	20	111	0
Dichloran	5	5.793	-	-15.9	20	104	0
Pentachloronitrobenzene	5	5.197	-	-3.9	20	88	0
IS2_Phenanthrene-d10	1	1	-	0	20	122	0
Diphenamid	0.508	0.417	-	17.9	20	73	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Alpha Geoscience	**Lab Number**	: L2410579		
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116		
Instrument ID	: SV106	**Calibration Date**	: 03/05/24 00:58		
Lab File ID	: ADP0304N	**Init. Calib. Date(s)**	: 09/02/23	09/03/23	
Sample No	: WG1891342-5	**Init. Calib. Times**	: 12:13	00:52	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS3_1,4-Dichlorobenzene-d4	1	1	-	0	20	99	0
n-Decane	1.347	1.408	-	-4.5	20	105	0
IS3_Acenaphthene-d10	1	1	-	0	20	107	0
Atrazine	0.345	0.326	-	5.5	20	102	0
IS3_Phenanthrene-d10	1	1	-	0	20	120	0
n-Octadecane	0.46	0.379	-	17.6	20	98	0
Parathion	0.094	0.083	-	11.7	20	117	0
3,3'-Dimethylbenzidine	5	4.078	-	18.4	20	105	0

*** Value outside of QC limits.**

Evaluate Continuing Calibration Report

Data Path : I:\8270\Dakota\240302lvi\
Data File : ABN0302.D
Acq On : 2 Mar 2024 1:55 pm
Operator : Dakota:cmm
Sample : WG1891492-3,32,,ABN LVI CCV Lot # 10360
Misc : WG1891492,,ical20900
ALS Vial : 96 Sample Multiplier: 1

Quant Time: Mar 02 15:16:21 2024
Quant Method : I:\8270\dakota\240302lvi\FS240228LVIDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Mar 02 15:16:36 2024
Response via : Initial Calibration

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

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	IS1_1,4-Dichlorobenzene-d4		1.000	1.000	0.0	99	0.00
2	t	n-Nitrosodimethylamine		0.745	0.687	7.8	92	0.00
3	t	Pyridine		1.122	1.127	-0.4	102	0.00
4	S	2-Fluorophenol		1.071	1.025	4.3	99	0.00
5	T	Aniline		1.612	1.430	11.3	90	0.00
6	t	2-Chlorophenol		1.171	1.096	6.4	95	0.00
7	S	Phenol-d6		1.383	1.255	9.3	93	0.00
8	T	Phenol		1.528	1.405	8.0	91	0.00
9	T	Bis(2-chloroethyl)ether		1.082	0.976	9.8	94	0.00
10	T	1,3-Dichlorobenzene		1.495	1.397	6.6	94	0.00
11	T	1,4-Dichlorobenzene		1.511	1.429	5.4	97	0.00
12	T	1,2-Dichlorobenzene		1.439	1.340	6.9	96	0.00
13	t	Benzyl alcohol		0.968	0.858	11.4	91	0.00
14	T	Bis(2-chloroisopropyl)ether		2.201	1.918	12.9	87	0.00
15	T	2-Methylphenol		1.041	0.927	11.0	89	0.00
16	T	Hexachloroethane		0.551	0.506	8.2	95	0.00
17	T	n-Nitrosodi-n-propylamine		0.860	0.778	9.5	93	0.00
18	T	3-Methylphenol/4-Methylphen		1.138	1.009	11.3	93	0.00
19	S	Nitrobenzene-d5		1.246	1.076	13.6	87	0.00
20	T	Nitrobenzene		1.226	1.050	14.4	88	0.00
21	T	Isophorone		2.184	1.994	8.7	89	0.00
22	T	2-Nitrophenol		0.574	0.511	11.0	91	0.00
23	T	2,4-Dimethylphenol		0.896	0.769	14.2	88	0.00
24	T	Bis(2-chloroethoxy)methane		1.404	1.265	9.9	92	0.00
25	T	2,4-Dichlorophenol		1.152	1.080	6.2	91	0.00
26	T	1,2,4-Trichlorobenzene		1.480	1.377	7.0	93	0.00
33	I	IS1_Naphthalene-d8		1.000	1.000	0.0	98	0.00
34	T	Naphthalene		1.012	0.952	5.9	91	0.00
35	T	Benzoic Acid	*	5.000	4.610	7.8	98	0.00
36	T	4-Chloroaniline		0.129	0.117	9.3	86	0.00
37	T	Hexachlorobutadiene		0.251	0.245	2.4	92	0.00
38	T	p-Chloro-m-cresol		0.282	0.273	3.2	95	0.00
39	T	2-Methylnaphthalene		0.713	0.670	6.0	94	0.00
40	T	1-Methylnaphthalene		0.228	0.209	8.3	89	0.00
41	T	Hexachlorocyclopentadiene		0.234	0.228	2.6	97	0.00
42	T	2,4,6-Trichlorophenol		0.277	0.272	1.8	97	0.00
43	T	2,4,5-Trichlorophenol		0.303	0.301	0.7	95	0.00
44	S	2-Fluorobiphenyl		0.897	0.893	0.4	98	0.00

Data Path : I:\8270\Dakota\240302lvi\
Data File : ABN0302.D
Acq On : 2 Mar 2024 1:55 pm
Operator : Dakota:cmm
Sample : WG1891492-3,32,,ABN LVI CCV Lot # 10360
Misc : WG1891492,,ical20900
ALS Vial : 96 Sample Multiplier: 1

Quant Time: Mar 02 15:16:21 2024
Quant Method : I:\8270\dakota\240302lvi\FS240228LVIDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Mar 02 15:16:36 2024
Response via : Initial Calibration

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

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(min)
45	T	2-Chloronaphthalene		0.760	0.747	1.7	94	0.00
46	T	2-Nitroaniline		0.198	0.192	3.0	93	0.00
47	T	1,4-Dinitrobenzene		0.089	0.091	-2.2	97	0.00
48	T	1,3-Dinitrobenzene		0.106	0.106	0.0	101	0.00
49	T	Dimethyl phthalate		0.860	0.905	-5.2	102	0.00
50	T	Acenaphthylene		1.151	1.148	0.3	94	0.00
51	T	2,6-Dinitrotoluene		0.168	0.177	-5.4	101	0.00
52	T	1,2-Dinitrobenzene		0.067	0.067	0.0	96	0.00
61	I	IS1_Acenaphthene-d10		1.000	1.000	0.0	102	0.00
62	T	3-Nitroaniline		0.285	0.272	4.6	96	0.00
63	T	Acenaphthene		1.021	0.943	7.6	97	0.00
64	T	2,4-Dinitrophenol	*	5.000	4.884	2.3	113	0.00
65	T	Dibenzofuran		1.765	1.661	5.9	98	0.00
66	T	2,4-Dinitrotoluene	*	5.000	4.661	6.8	102	0.00
67	T	4-Nitrophenol		0.235	0.213	9.4	96	0.00
68	T	2,3,5,6-Tetrachlorophenol		0.414	0.401	3.1	100	0.00
69	T	2,3,4,6-Tetrachlorophenol		0.397	0.386	2.8	98	0.00
70	T	Diethyl phthalate		1.340	1.259	6.0	98	0.00
71	T	Fluorene		1.350	1.242	8.0	96	0.00
72	T	4-Chlorophenyl phenyl ether		0.713	0.674	5.5	99	0.00
73	T	4-Nitroaniline		0.283	0.271	4.2	97	0.00
74	T	4,6-Dinitro-o-cresol	*	5.000	4.780	4.4	107	0.00
75	T	NDPA/DPA		1.118	1.067	4.6	99	0.00
76	T	Azobenzene		1.188	1.078	9.3	95	0.00
77	S	2,4,6-Tribromophenol		0.263	0.258	1.9	104	0.00
78	T	4-Bromophenyl phenyl ether		0.455	0.436	4.2	100	0.00
79	T	Hexachlorobenzene		0.556	0.545	2.0	106	0.00
80	T	Pentachlorophenol		0.370	0.328	11.4	98	0.00
85	I	IS1_Phenanthrene-d10		1.000	1.000	0.0	107	0.00
86	T	Phenanthrene		1.038	0.930	10.4	98	0.00
87	T	Anthracene		1.027	0.950	7.5	101	0.00
88	T	Carbazole		0.968	0.892	7.9	99	0.00
89	T	Di-n-butylphthalate		1.074	0.936	12.8	95	0.00
90	T	Fluoranthene		1.291	1.190	7.8	103	0.00
91	T	Benzidine		0.761	0.686	9.9	95	0.00
92	T	Pyrene		1.359	1.253	7.8	100	0.00
93	S	4-Terphenyl-d14		1.045	0.984	5.8	102	0.00

Evaluate Continuing Calibration Report

Data Path : I:\8270\Dakota\240302lvi\
Data File : ABN0302.D
Acq On : 2 Mar 2024 1:55 pm
Operator : Dakota:cmm
Sample : WG1891492-3,32,,ABN LVI CCV Lot # 10360
Misc : WG1891492,,ical20900
ALS Vial : 96 Sample Multiplier: 1

Quant Time: Mar 02 15:16:21 2024
Quant Method : I:\8270\dakota\240302lvi\FS240228LVIDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Mar 02 15:16:36 2024
Response via : Initial Calibration

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

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(min)
94	T	Butyl benzyl phthalate	*	5.000	4.123	17.5	94	0.00
100	I	IS1_Chrysene-d12		1.000	1.000	0.0	110	0.00
101	T	Benzo(a)anthracene		1.368	1.225	10.5	103	0.00
102	T	3,3'-Dichlorobenzidine		0.514	0.463	9.9	101	0.00
103	T	Chrysene		1.333	1.170	12.2	101	0.00
104	T	Bis(2-ethylhexyl)phthalate	*	5.000	3.803	23.9#	91	0.00
105	T	Di-n-octylphthalate	*	5.000	3.825	23.5#	91	0.00
106	T	Benzo(b)fluoranthene		1.411	1.307	7.4	105	0.00
107	T	Benzo(k)fluoranthene		1.392	1.241	10.8	100	0.00
108	T	Benzo(a)pyrene		1.302	1.190	8.6	102	0.00
109	I	IS1_Perylene-d12		1.000	1.000	0.0	111	0.00
110	T	Indeno(1,2,3-cd)pyrene		1.256	1.111	11.5	100	0.00
111	T	Dibenzo(a,h)anthracene		1.175	1.083	7.8	101	0.00
112	T	Benzo(ghi)perylene		1.182	1.046	11.5	98	0.00

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240302lvi\
Data File : ABN0302.D
Acq On : 2 Mar 2024 1:55 pm
Operator : Dakota:cmm
Sample : WG1891492-3,32,,ABN LVI CCV Lot # 10360
Misc : WG1891492,,ical20900
ALS Vial : 96 Sample Multiplier: 1

Quant Time: Mar 02 15:16:21 2024
Quant Method : I:\8270\dakota\240302lvi\FS240228LVIDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Mar 02 15:16:36 2024
Response via : Initial Calibration

Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) IS1_1,4-Dichlorobenzen...	4.776	152	24014	4.000	ug/ml		0.00
33) IS1_Naphthalene-d8	6.010	136	81733	4.000	ug/ml	#	0.00
61) IS1_Acenaphthene-d10	7.714	164	56426	4.000	ug/ml		0.00
85) IS1_Phenanthrene-d10	9.143	188	126344	4.000	ug/ml		0.00
100) IS1_Chrysene-d12	11.776	240	137232	4.000	ug/ml	#	0.00
109) IS1_Perylene-d12	13.240	264	160070	4.000	ug/ml		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	3.511	112	30755	4.784	ug/ml		0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 95.68%				
7) Phenol-d6	4.453	99	37683	4.537	ug/ml		0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 90.74%				
19) Nitrobenzene-d5	5.317	82	32295	4.316	ug/ml		0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 172.64%#				
44) 2-Fluorobiphenyl	7.076	172	91225	4.979	ug/ml		0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 199.16%#				
77) 2,4,6-Tribromophenol	8.475	330	18189	4.907	ug/ml		0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 98.14%				
93) 4-Terphenyl-d14	10.719	244	155327	4.707	ug/ml		0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 188.28%#				
Target Compounds							Qvalue
2) n-Nitrosodimethylamine	2.141	74	20611	4.608	ug/ml		83
3) Pyridine	2.190	79	33831M1	5.020	ug/ml		
5) Aniline	4.459	93	42919	4.434	ug/ml	#	41
6) 2-Chlorophenol	4.574	128	32889	4.679	ug/ml		91
8) Phenol	4.466	94	42168	4.597	ug/ml	#	53
9) Bis(2-chloroethyl)ether	4.540	93	29307	4.511	ug/ml		96
10) 1,3-Dichlorobenzene	4.720	146	41945	4.675	ug/ml		96
11) 1,4-Dichlorobenzene	4.792	146	42897	4.728	ug/ml		95
12) 1,2-Dichlorobenzene	4.941	146	40237	4.659	ug/ml		94
13) Benzyl alcohol	4.929	79	25768	4.434	ug/ml		95
14) Bis(2-chloroisopropyl)...	5.069	45	57571	4.356	ug/ml	#	72
15) 2-Methylphenol	5.053	108	27831	4.452	ug/ml		99
16) Hexachloroethane	5.267	117	15197	4.595	ug/ml	#	43
17) n-Nitrosodi-n-propylamine	5.193	70	23352	4.521	ug/ml	#	88
18) 3-Methylphenol/4-Methy...	5.208	108	30276	4.433	ug/ml		97
20) Nitrobenzene	5.336	77	31519	4.281	ug/ml		97
21) Isophorone	5.575	82	59845	4.564	ug/ml		96
22) 2-Nitrophenol	5.650	139	15332	4.450	ug/ml		91

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240302lvi\
Data File : ABN0302.D
Acq On : 2 Mar 2024 1:55 pm
Operator : Dakota:cmm
Sample : WG1891492-3,32,,ABN LVI CCV Lot # 10360
Misc : WG1891492,,ical20900
ALS Vial : 96 Sample Multiplier: 1

Quant Time: Mar 02 15:16:21 2024
Quant Method : I:\8270\dakota\240302lvi\FS240228LVIDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Mar 02 15:16:36 2024
Response via : Initial Calibration

Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) 2,4-Dimethylphenol	5.718	107	23077	4.291	ug/ml	99
24) Bis(2-chloroethoxy)met...	5.808	93	37983	4.507	ug/ml#	96
25) 2,4-Dichlorophenol	5.886	162	32421	4.690	ug/ml#	92
26) 1,2,4-Trichlorobenzene	5.964	180	41346	4.654	ug/ml#	94
34) Naphthalene	6.032	128	97258	4.701	ug/ml	99
35) Benzoic Acid	5.783	105	17429	4.610	ug/ml	93
36) 4-Chloroaniline	6.097	65	11964	4.529	ug/ml	90
37) Hexachlorobutadiene	6.178	225	25006	4.868	ug/ml	100
38) p-Chloro-m-cresol	6.592	107	27941	4.841	ug/ml	94
39) 2-Methylnaphthalene	6.710	142	68450	4.700	ug/ml	95
40) 1-Methylnaphthalene	6.803	115	21359	4.590	ug/ml	88
41) Hexachlorocyclopentadiene	6.877	237	23297	4.864	ug/ml	98
42) 2,4,6-Trichlorophenol	6.992	196	27753M3	4.902	ug/ml	
43) 2,4,5-Trichlorophenol	7.024	196	30736	4.962	ug/ml	97
45) 2-Chloronaphthalene	7.173	162	76279	4.911	ug/ml#	90
46) 2-Nitroaniline	7.285	138	19655	4.864	ug/ml	84
47) 1,4-Dinitrobenzene	7.415	168	9311	5.118	ug/ml	83
48) 1,3-Dinitrobenzene	7.490	168	10824	4.985	ug/ml#	1
49) Dimethyl phthalate	7.480	163	92425	5.262	ug/ml#	98
50) Acenaphthylene	7.571	152	117307	4.990	ug/ml	99
51) 2,6-Dinitrotoluene	7.524	165	18097	5.265	ug/ml#	75
52) 1,2-Dinitrobenzene	7.567	168	6849	4.980	ug/ml#	1
62) 3-Nitroaniline	7.679	138	19172	4.767	ug/ml#	87
63) Acenaphthene	7.745	154	66480	4.616	ug/ml	93
64) 2,4-Dinitrophenol	7.782	184	10482	4.884	ug/ml#	80
65) Dibenzofuran	7.912	168	117157	4.705	ug/ml#	86
66) 2,4-Dinitrotoluene	7.912	165	24943	4.661	ug/ml	89
67) 4-Nitrophenol	7.866	65	15008	4.521	ug/ml	89
68) 2,3,5,6-Tetrachlorophenol	8.000	232	28308M3	4.844	ug/ml	
69) 2,3,4,6-Tetrachlorophenol	8.043	232	27195	4.859	ug/ml	98
70) Diethyl phthalate	8.170	149	88797	4.699	ug/ml	98
71) Fluorene	8.242	166	87631	4.600	ug/ml	91
72) 4-Chlorophenyl phenyl ...	8.261	204	47523	4.722	ug/ml#	82
73) 4-Nitroaniline	8.267	138	19105	4.794	ug/ml	85
74) 4,6-Dinitro-o-cresol	8.301	198	14499	4.780	ug/ml#	60
75) NDPA/DPA	8.372	169	75251	4.772	ug/ml	91
76) Azobenzene	8.410	77	76007	4.535	ug/ml	97
78) 4-Bromophenyl phenyl e...	8.730	248	30773	4.793	ug/ml#	77
79) Hexachlorobenzene	8.780	284	38464	4.901	ug/ml#	77
80) Pentachlorophenol	8.972	266	23131	4.430	ug/ml	98
86) Phenanthrene	9.165	178	146898	4.479	ug/ml	100

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240302lvi\
Data File : ABN0302.D
Acq On : 2 Mar 2024 1:55 pm
Operator : Dakota:cmm
Sample : WG1891492-3,32,,ABN LVI CCV Lot # 10360
Misc : WG1891492,,ical20900
ALS Vial : 96 Sample Multiplier: 1

Quant Time: Mar 02 15:16:21 2024
Quant Method : I:\8270\dakota\240302lvi\FS240228LVIDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Mar 02 15:16:36 2024
Response via : Initial Calibration

Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
87) Anthracene	9.215	178	150063	4.625	ug/ml	99
88) Carbazole	9.380	167	140862	4.605	ug/ml	99
89) Di-n-butylphthalate	9.762	149	147888	4.358	ug/ml#	97
90) Fluoranthene	10.315	202	187862	4.608	ug/ml#	91
91) Benzidine	10.467	184	108322	4.509	ug/ml#	94
92) Pyrene	10.533	202	197845	4.608	ug/ml	99
94) Butyl benzyl phthalate	11.241	149	65122	4.123	ug/ml	86
101) Benzo(a)anthracene	11.767	228	210148M3	4.478	ug/ml	
102) 3,3'-Dichlorobenzidine	11.763	252	79485	4.506	ug/ml#	96
103) Chrysene	11.804	228	200731	4.388	ug/ml	99
104) Bis(2-ethylhexyl)phtha...	11.875	149	97053	3.803	ug/ml#	94
105) Di-n-octylphthalate	12.553	149	162005	3.825	ug/ml#	77
106) Benzo(b)fluoranthene	12.870	252	224278M3	4.633	ug/ml	
107) Benzo(k)fluoranthene	12.898	252	212828	4.456	ug/ml#	91
108) Benzo(a)pyrene	13.187	252	204080	4.569	ug/ml#	91
110) Indeno(1,2,3-cd)pyrene	14.194	276	222365M3	4.422	ug/mL	
111) Dibenzo(a,h)anthracene	14.216	278	216665	4.610	ug/ml#	87
112) Benzo(ghi)perylene	14.412	276	209228	4.423	ug/ml#	83

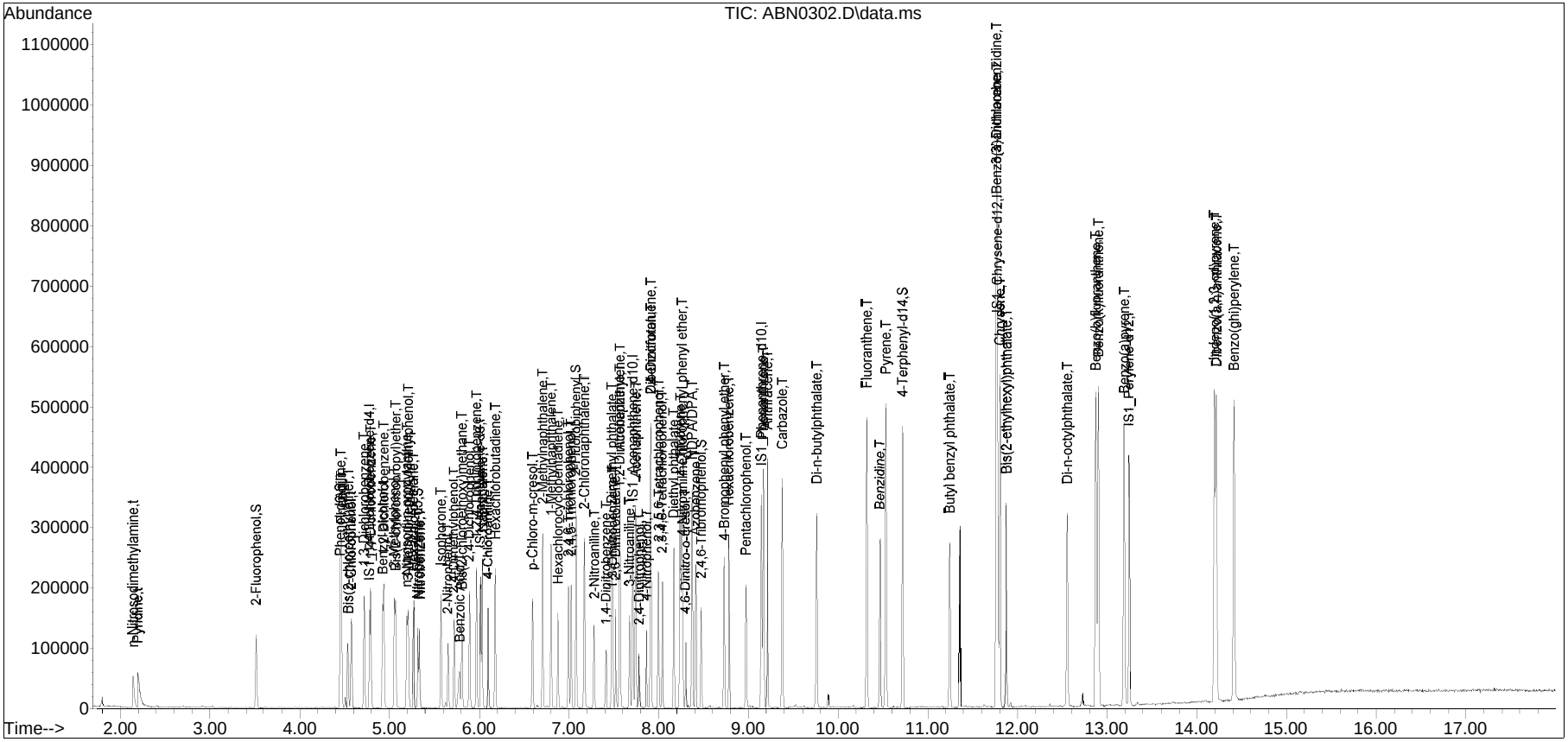
(#) = qualifier out of range (m) = manual integration (+) = signals summed

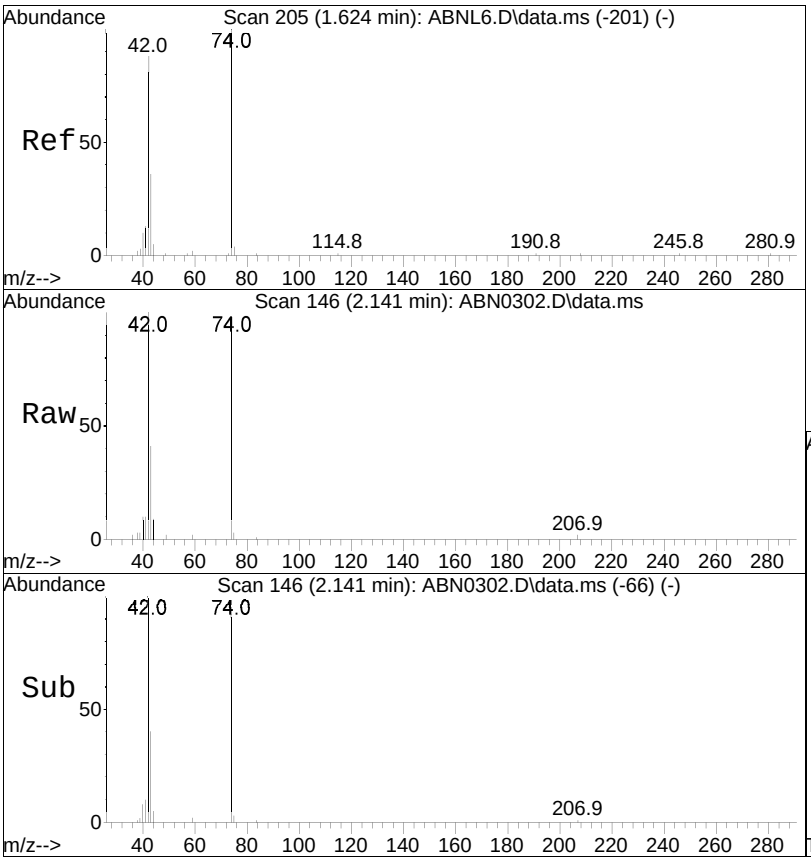
Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240302lvi\
Data File : ABN0302.D
Acq On : 2 Mar 2024 1:55 pm
Operator : Dakota:cmm
Sample : WG1891492-3,32,,ABN LVI CCV Lot # 10360
Misc : WG1891492,,ical20900
ALS Vial : 96 Sample Multiplier: 1

Quant Time: Mar 02 15:16:21 2024
Quant Method : I:\8270\dakota\240302lvi\FS240228LVIDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Mar 02 15:16:36 2024
Response via : Initial Calibration

Sub List : ABNical - ABN ical sublist

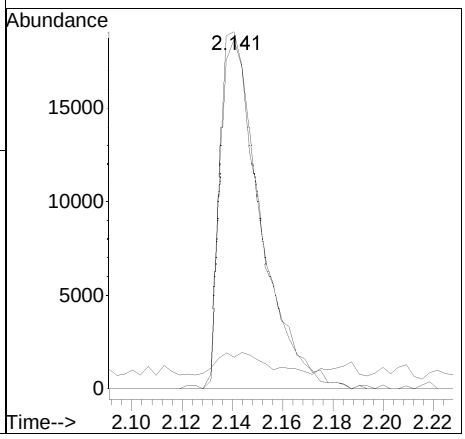


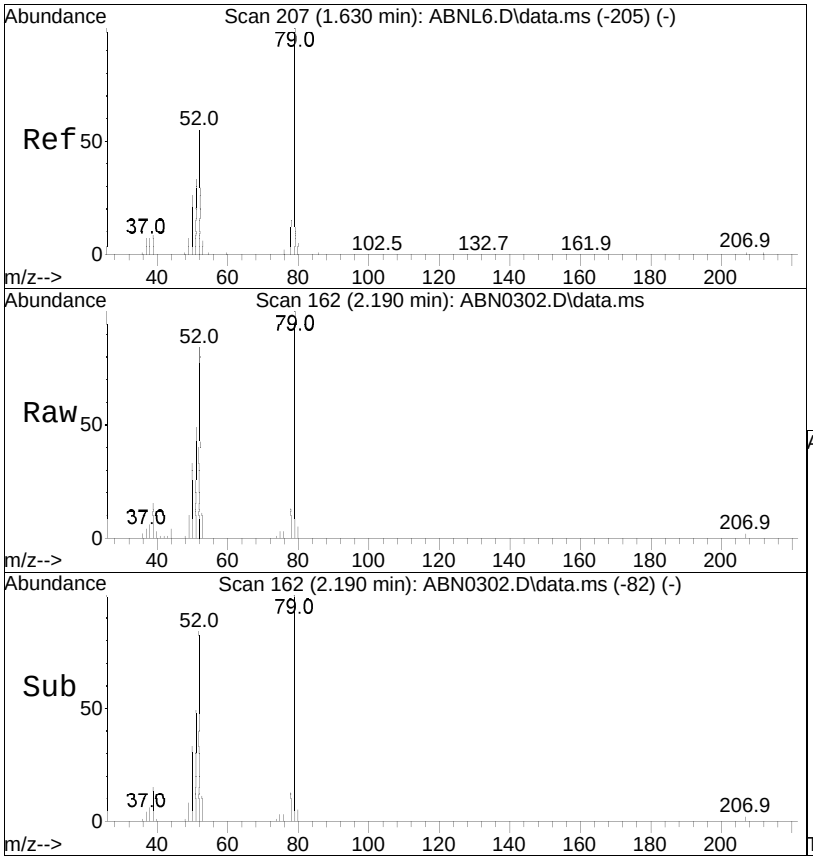


#2
n-Nitrosodimethylamine
Concen: 4.61 ug/ml
RT: 2.141 min Scan# 146
Delta R.T. 0.000 min
Lab File: ABN0302.D
Acq: 2 Mar 2024 1:55 pm

Tgt Ion: 74 Resp: 20611

Ion	Ratio	Lower	Upper
74	100		
42	104.3	100.0	150.0
44	7.8	6.7	10.1

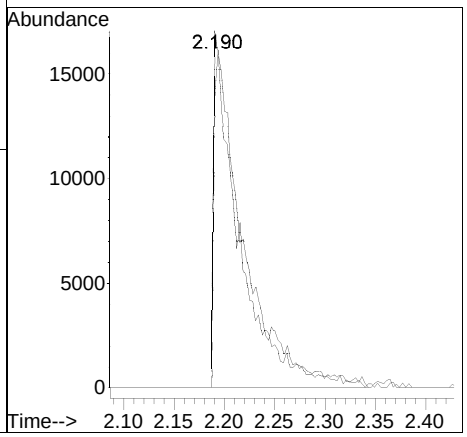


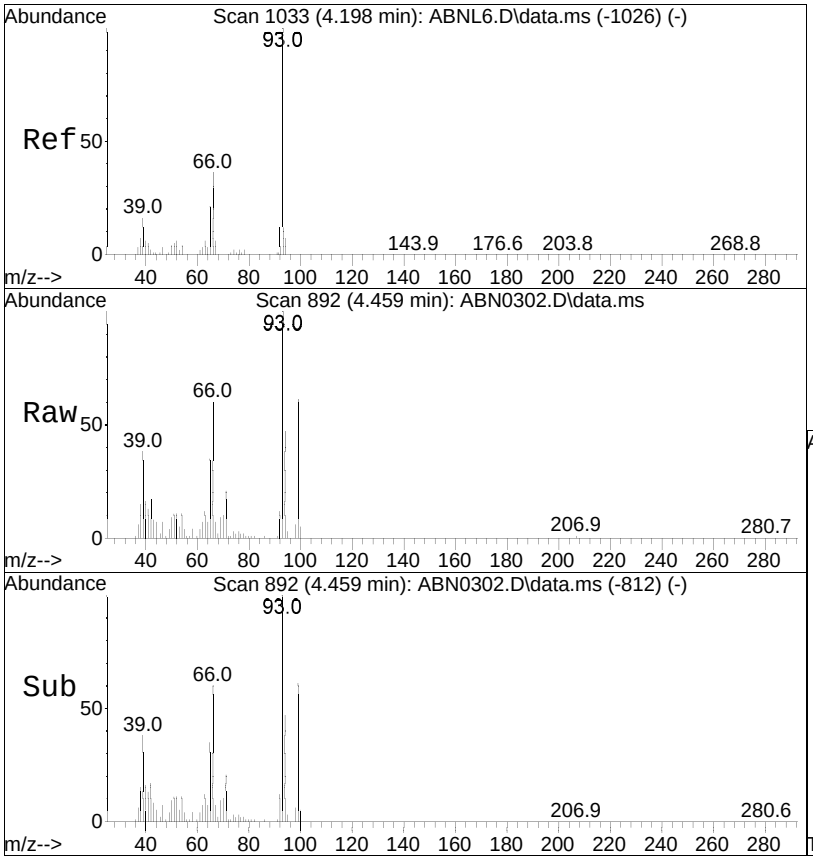


#3
Pyridine
Concen: 5.02 ug/ml M1
RT: 2.190 min Scan# 162
Delta R.T. 0.000 min
Lab File: ABN0302.D
Acq: 2 Mar 2024 1:55 pm

Tgt Ion: 79 Resp: 33831

Ion	Ratio	Lower	Upper
79	100		
52	78.9	93.1	139.7#

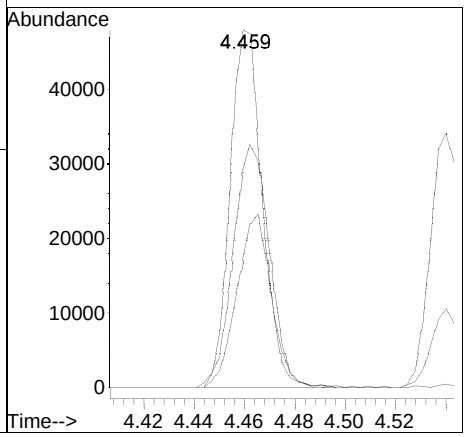


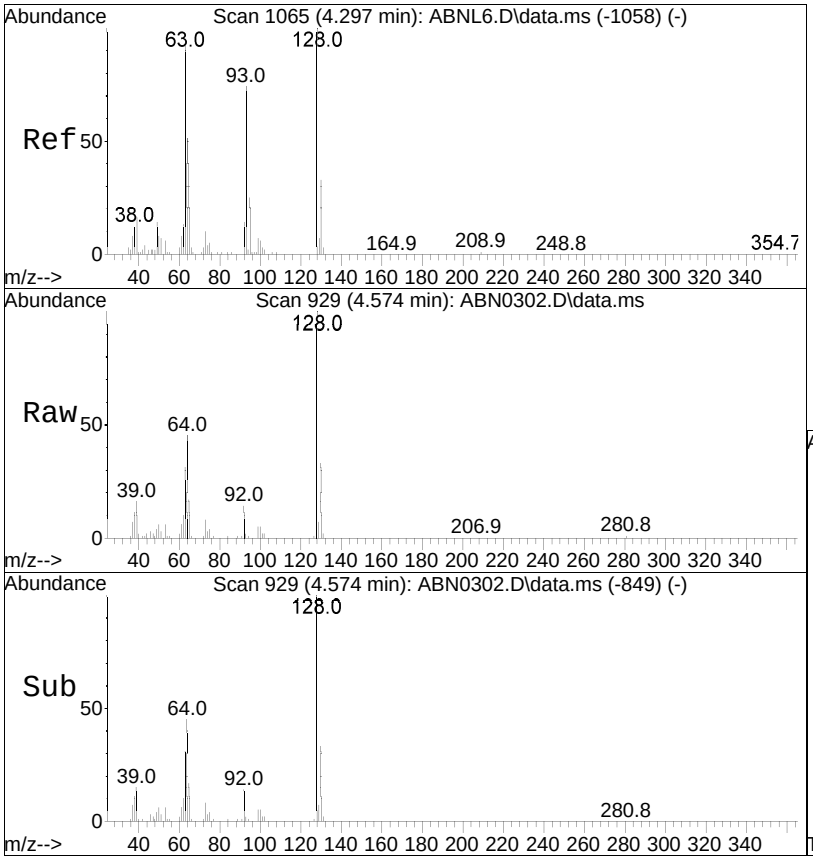


#5
Aniline
Concen: 4.43 ug/ml
RT: 4.459 min Scan# 892
Delta R.T. 0.000 min
Lab File: ABN0302.D
Acq: 2 Mar 2024 1:55 pm

Tgt Ion: 93 Resp: 42919

Ion	Ratio	Lower	Upper
93	100		
66	76.6	32.6	49.0#
65	51.3	17.6	26.4#

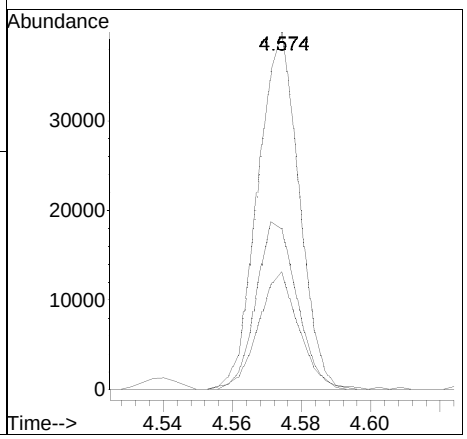


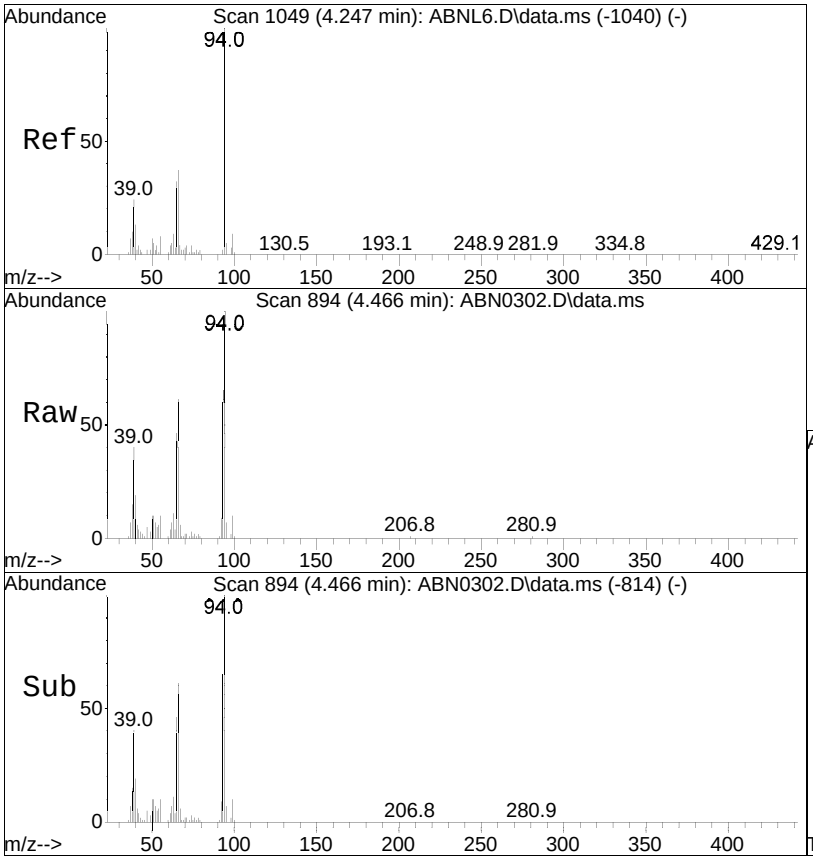


#6
2-Chlorophenol
Concen: 4.68 ug/ml
RT: 4.574 min Scan# 929
Delta R.T. 0.000 min
Lab File: ABN0302.D
Acq: 2 Mar 2024 1:55 pm

Tgt Ion:128 Resp: 32889

Ion	Ratio	Lower	Upper
128	100		
64	46.8	45.1	67.7
130	32.4	26.2	39.4

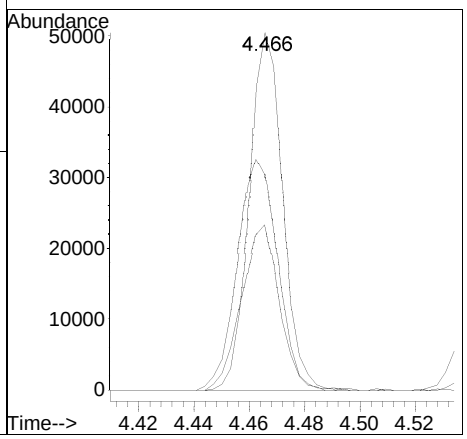


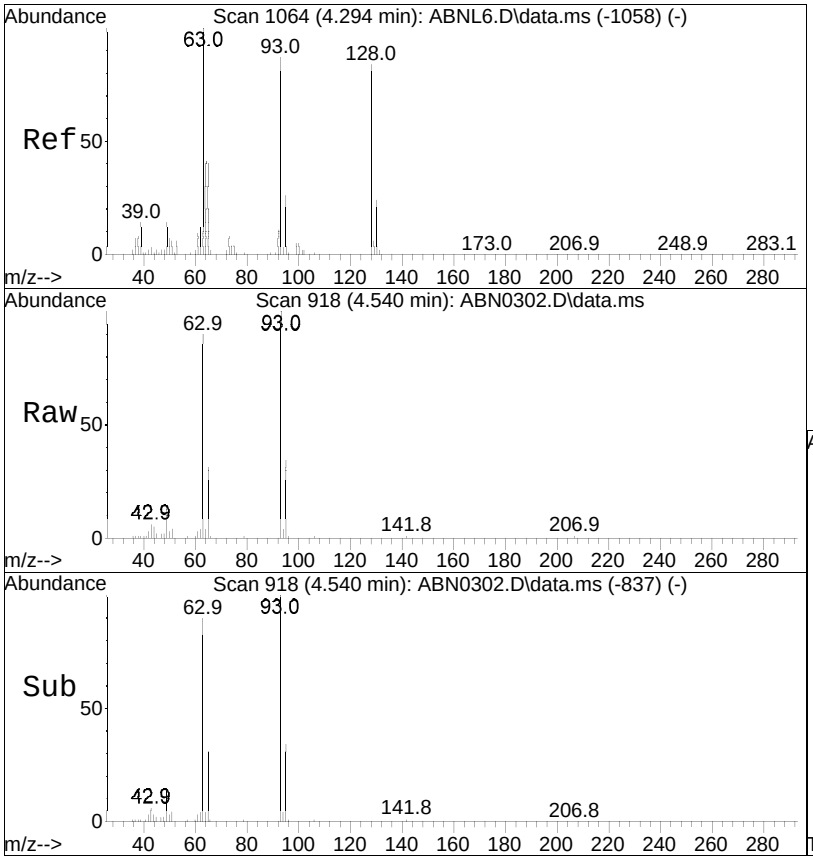


#8
Phenol
Concen: 4.60 ug/ml
RT: 4.466 min Scan# 894
Delta R.T. 0.000 min
Lab File: ABN0302.D
Acq: 2 Mar 2024 1:55 pm

Tgt Ion: 94 Resp: 42168

Ion	Ratio	Lower	Upper
94	100		
65	52.2	26.0	39.0#
66	77.9	33.8	50.8#

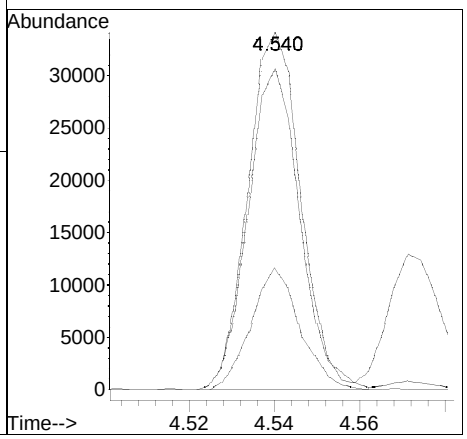


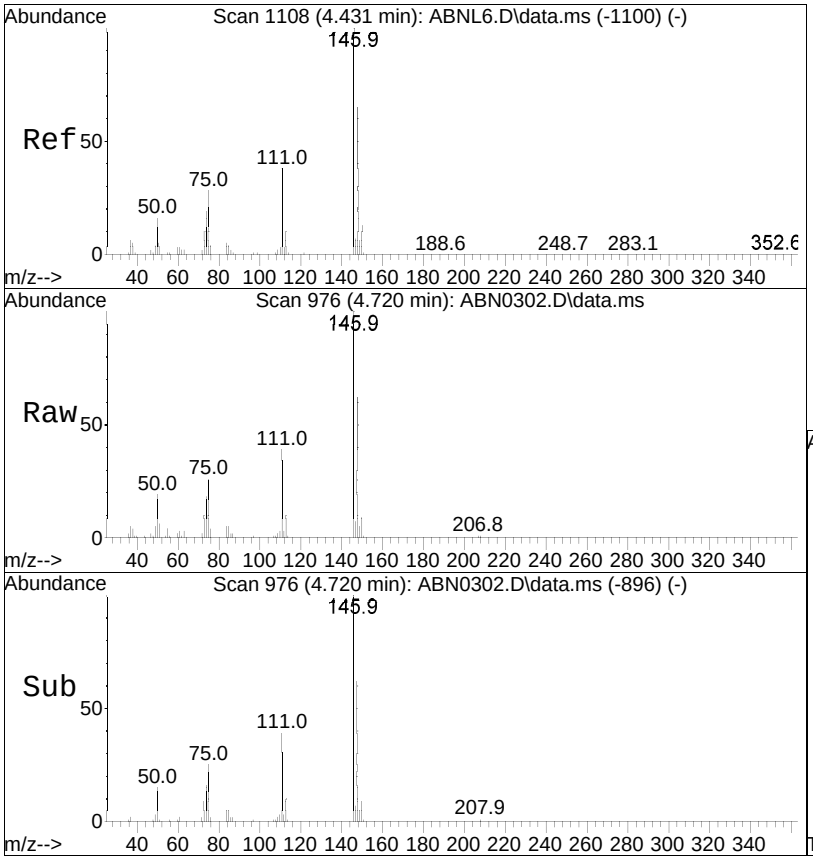


#9
Bis(2-chloroethyl)ether
Concen: 4.51 ug/ml
RT: 4.540 min Scan# 918
Delta R.T. 0.000 min
Lab File: ABN0302.D
Acq: 2 Mar 2024 1:55 pm

Tgt Ion: 93 Resp: 29307

Ion	Ratio	Lower	Upper
93	100		
63	88.4	74.6	111.8
95	31.8	25.9	38.9

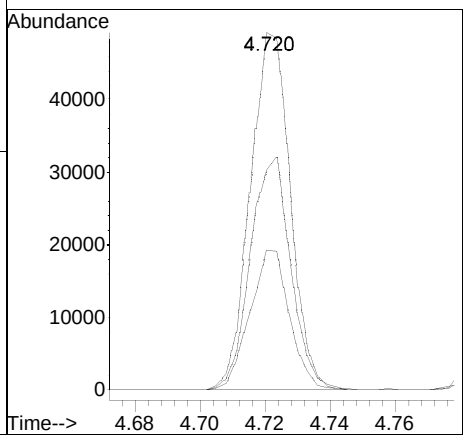


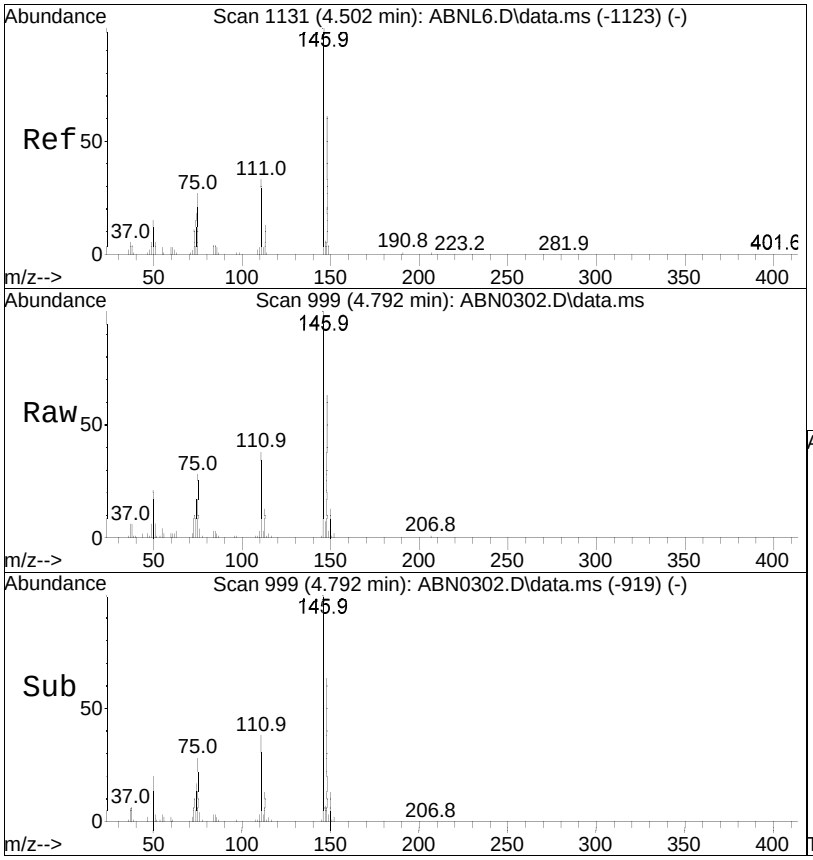


#10
1,3-Dichlorobenzene
Concen: 4.67 ug/ml
RT: 4.720 min Scan# 976
Delta R.T. 0.000 min
Lab File: ABN0302.D
Acq: 2 Mar 2024 1:55 pm

Tgt Ion:146 Resp: 41945

Ion	Ratio	Lower	Upper
146	100		
111	39.0	34.3	51.5
148	65.9	50.8	76.2

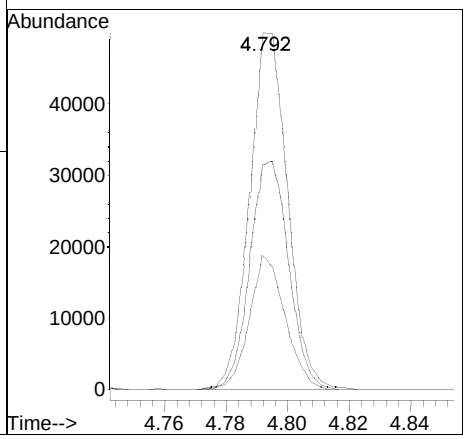


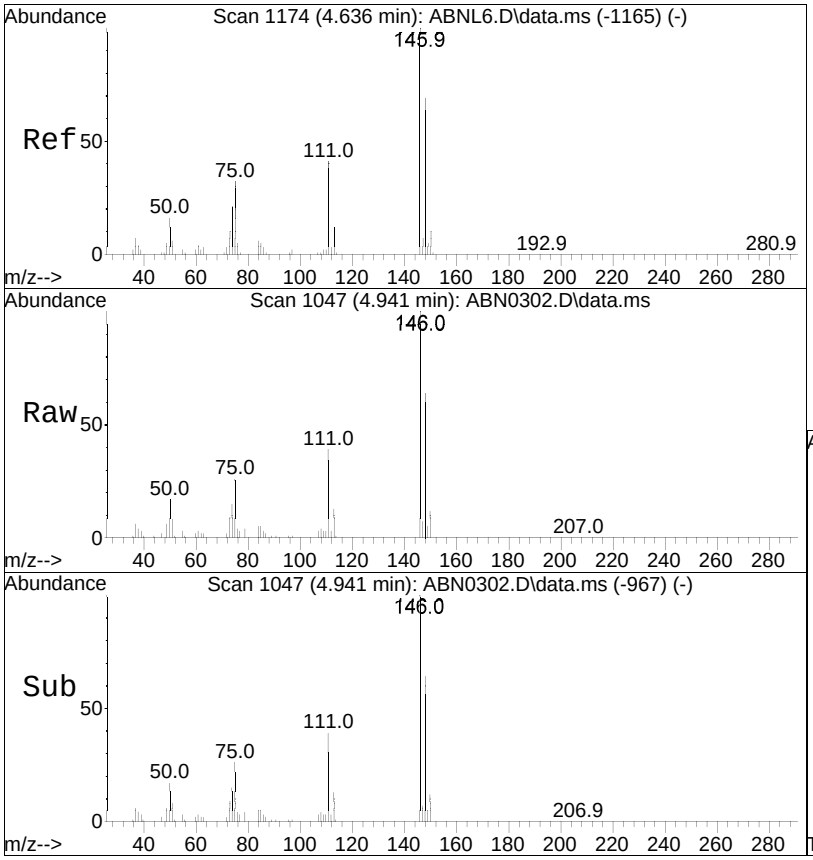


#11
1,4-Dichlorobenzene
Concen: 4.73 ug/ml
RT: 4.792 min Scan# 999
Delta R.T. 0.000 min
Lab File: ABN0302.D
Acq: 2 Mar 2024 1:55 pm

Tgt Ion:146 Resp: 42897

Ion	Ratio	Lower	Upper
146	100		
148	65.5	50.7	76.1
111	35.9	33.4	50.0

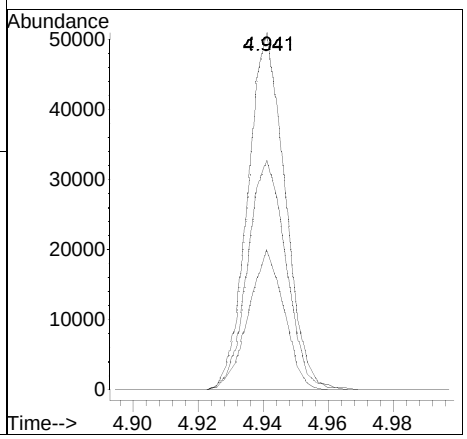


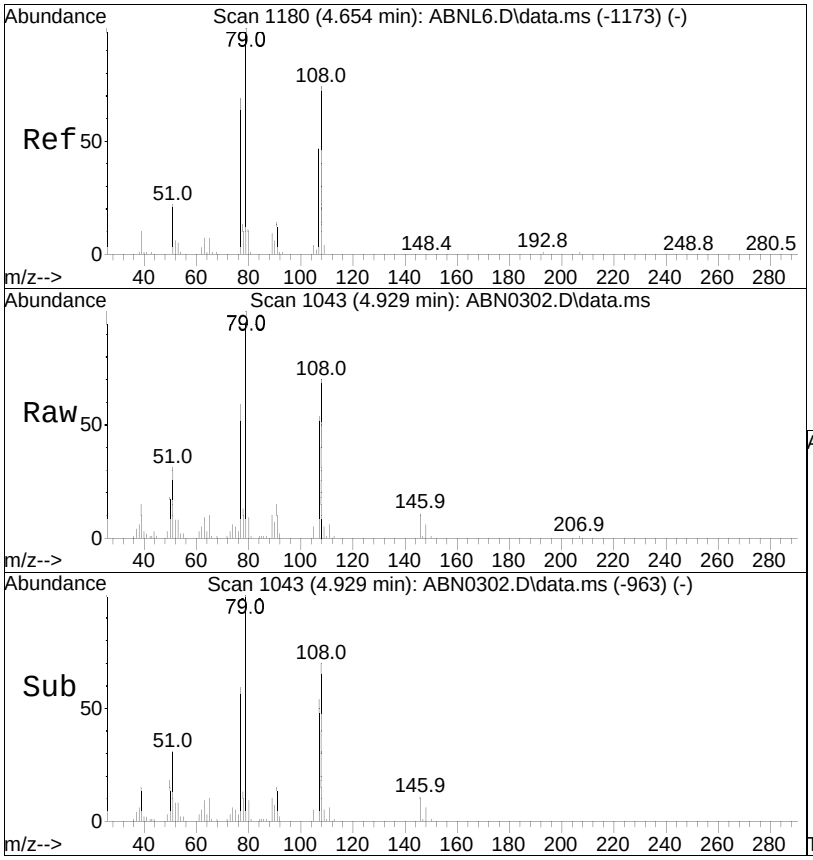


#12
1,2-Dichlorobenzene
Concen: 4.66 ug/ml
RT: 4.941 min Scan# 1047
Delta R.T. 0.000 min
Lab File: ABN0302.D
Acq: 2 Mar 2024 1:55 pm

Tgt Ion:146 Resp: 40237

Ion	Ratio	Lower	Upper
146	100		
111	37.7	34.6	52.0
148	66.4	50.2	75.4

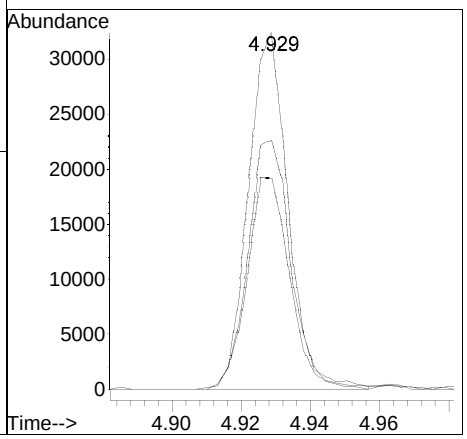


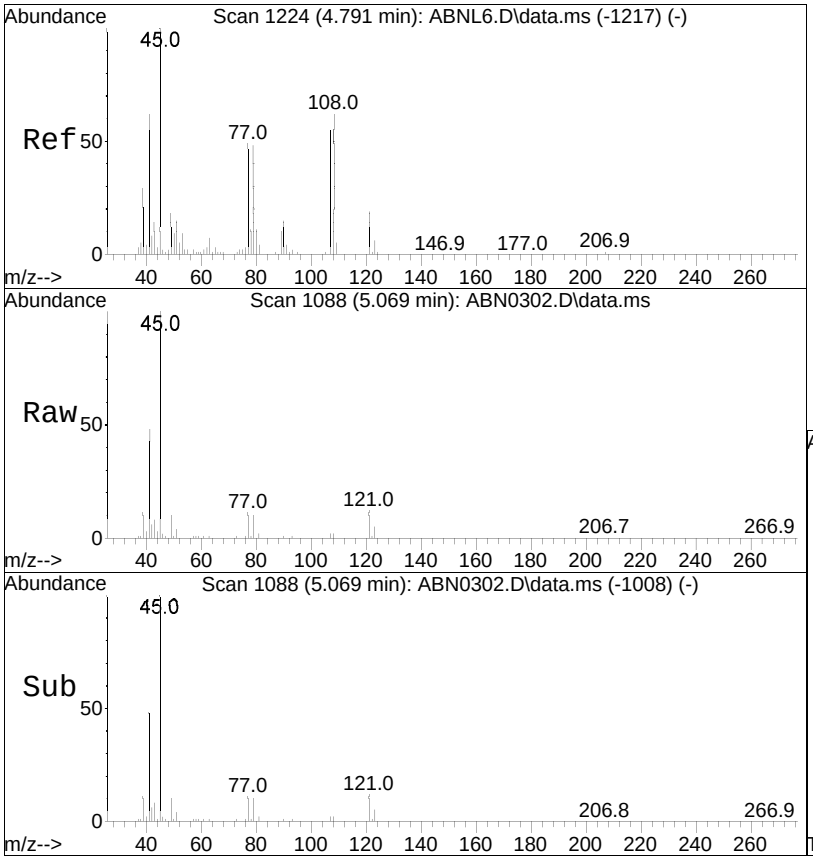


#13
Benzyl alcohol
Concen: 4.43 ug/ml
RT: 4.929 min Scan# 1043
Delta R.T. 0.000 min
Lab File: ABN0302.D
Acq: 2 Mar 2024 1:55 pm

Tgt Ion: 79 Resp: 25768

Ion	Ratio	Lower	Upper
79	100		
77	64.1	54.9	82.3
108	75.3	63.1	94.7

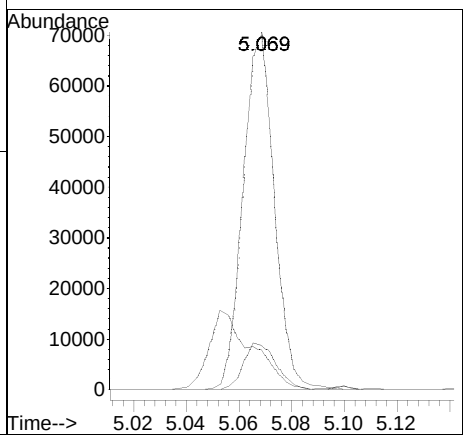


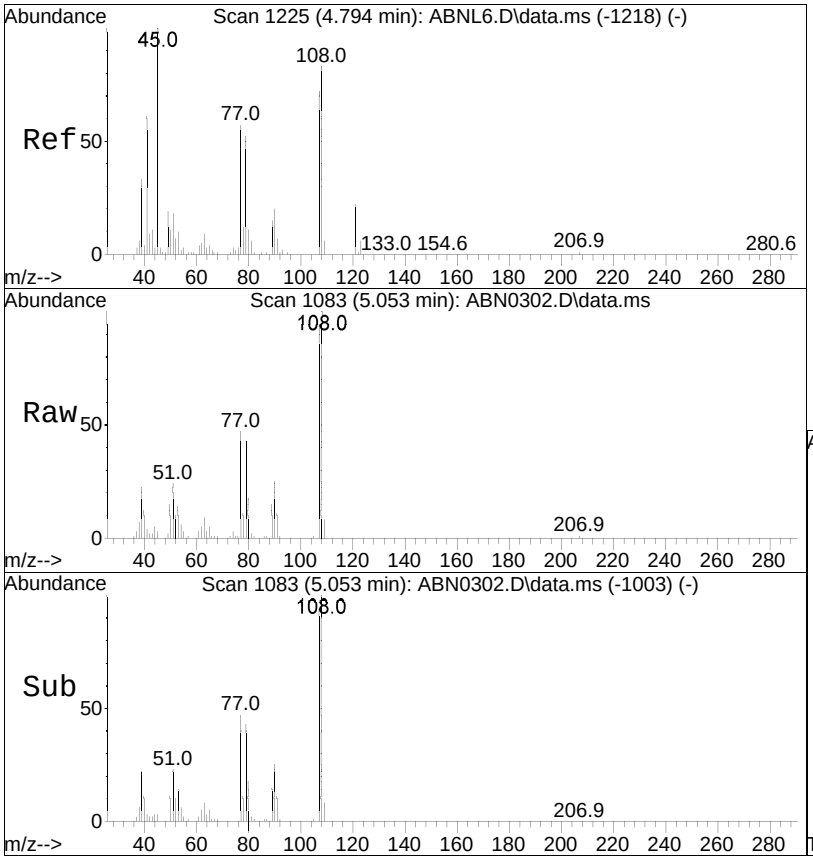


#14
Bis(2-chloroisopropyl)ether
Concen: 4.36 ug/ml
RT: 5.069 min Scan# 1088
Delta R.T. 0.000 min
Lab File: ABN0302.D
Acq: 2 Mar 2024 1:55 pm

Tgt Ion: 45 Resp: 57571

Ion	Ratio	Lower	Upper
45	100		
121	13.6	9.8	14.6
77	30.7	6.1	9.1#

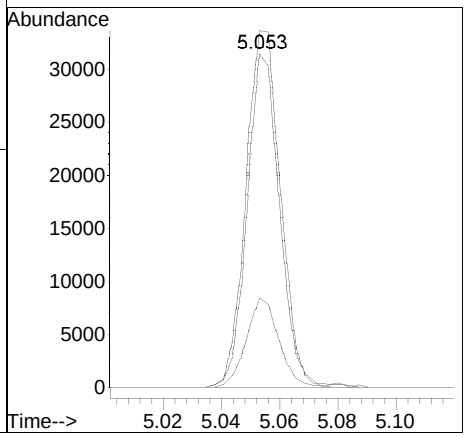


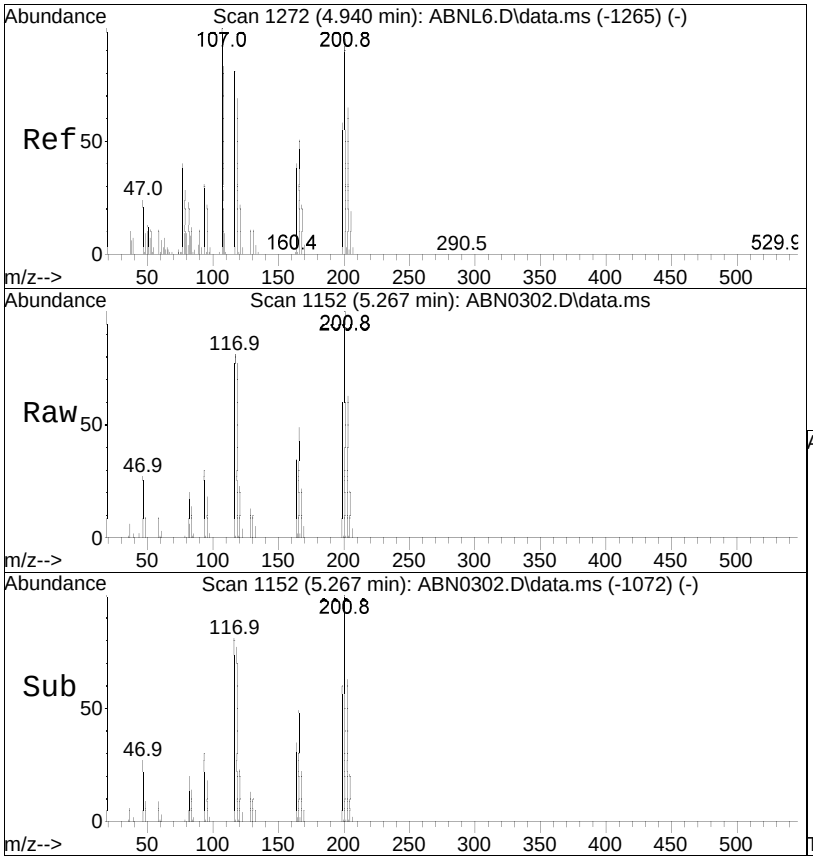


#15
2-Methylphenol
Concen: 4.45 ug/ml
RT: 5.053 min Scan# 1083
Delta R.T. 0.000 min
Lab File: ABN0302.D
Acq: 2 Mar 2024 1:55 pm

Tgt Ion:108 Resp: 27831

Ion	Ratio	Lower	Upper
108	100		
107	87.6	70.7	106.1
90	23.6	18.7	28.1

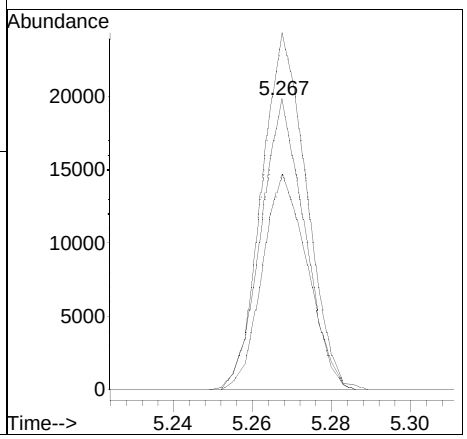


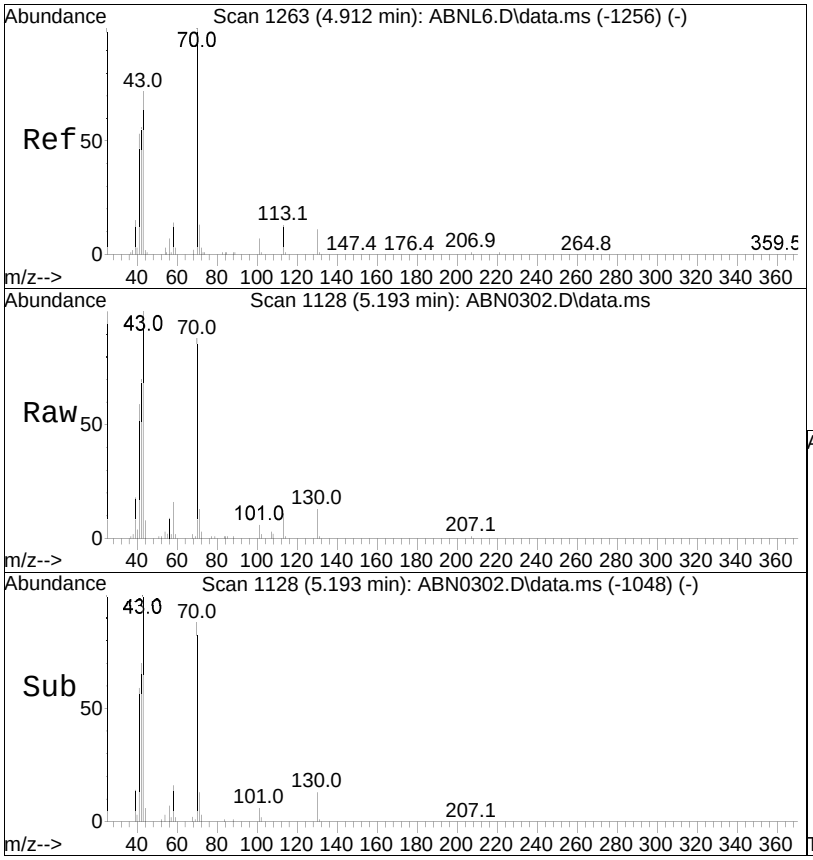


#16
Hexachloroethane
Concen: 4.59 ug/ml
RT: 5.267 min Scan# 1152
Delta R.T. 0.000 min
Lab File: ABN0302.D
Acq: 2 Mar 2024 1:55 pm

Tgt Ion:117 Resp: 15197

Ion	Ratio	Lower	Upper
117	100		
201	126.4	58.6	87.8#
199	76.9	36.9	55.3#

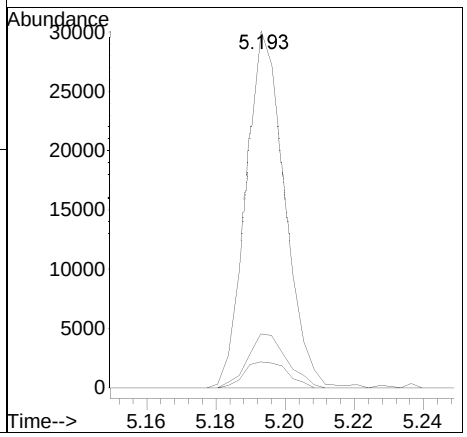


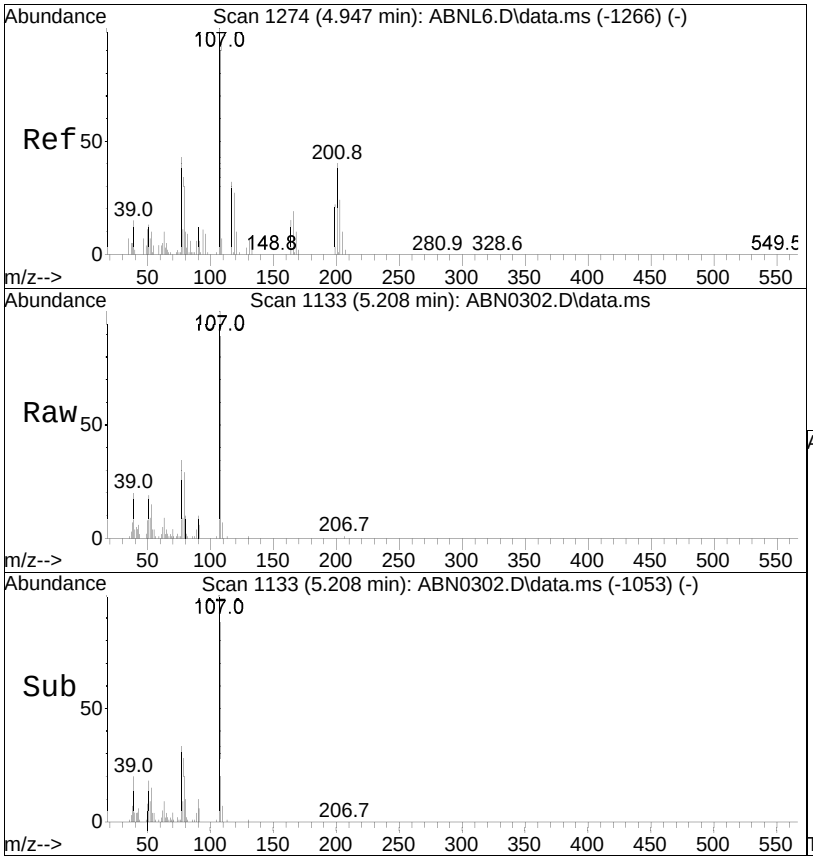


#17
n-Nitrosodi-n-propylamine
Concen: 4.52 ug/ml
RT: 5.193 min Scan# 1128
Delta R.T. 0.000 min
Lab File: ABN0302.D
Acq: 2 Mar 2024 1:55 pm

Tgt Ion: 70 Resp: 23352

Ion	Ratio	Lower	Upper
70	100		
130	15.3	18.2	27.4#
101	8.2	7.8	11.8

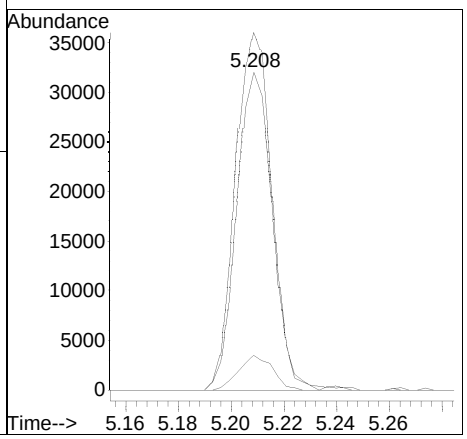


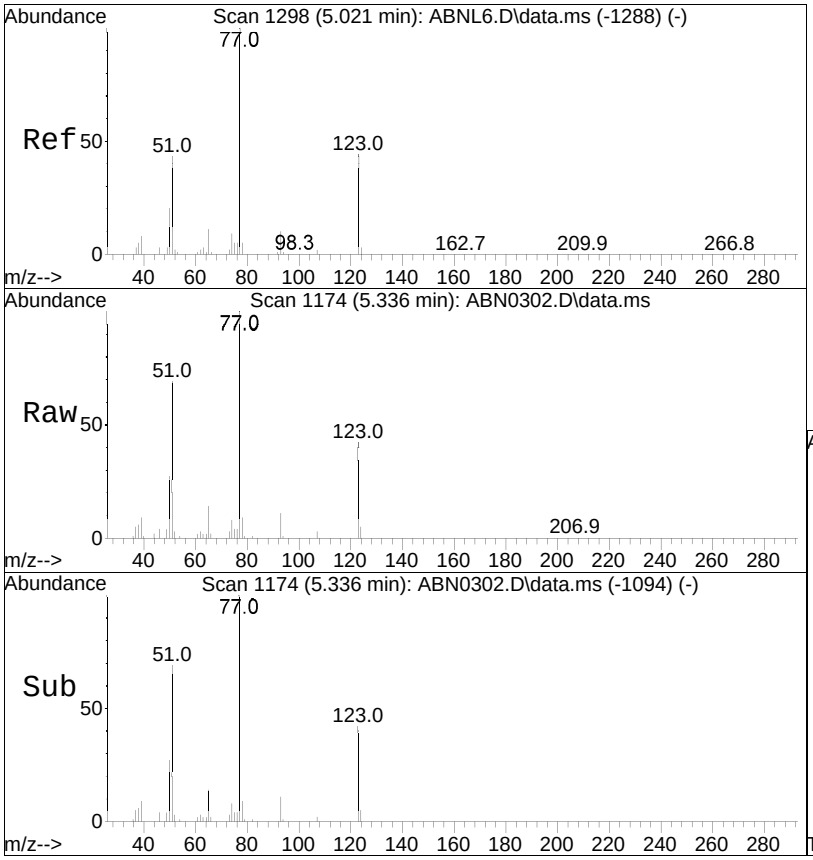


#18
3-Methylphenol/4-Methylphenol
Concen: 4.43 ug/ml
RT: 5.208 min Scan# 1133
Delta R.T. 0.000 min
Lab File: ABN0302.D
Acq: 2 Mar 2024 1:55 pm

Tgt Ion:108 Resp: 30276

Ion	Ratio	Lower	Upper
108	100		
107	114.4	88.6	132.8
90	10.2	8.8	13.2

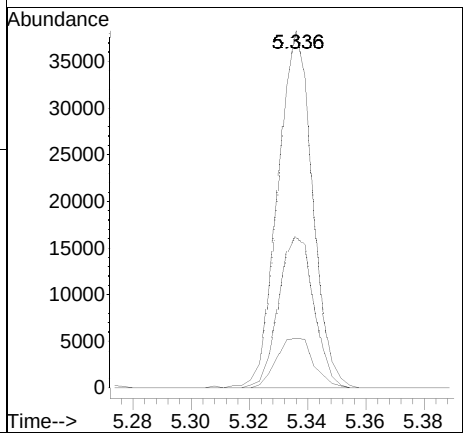


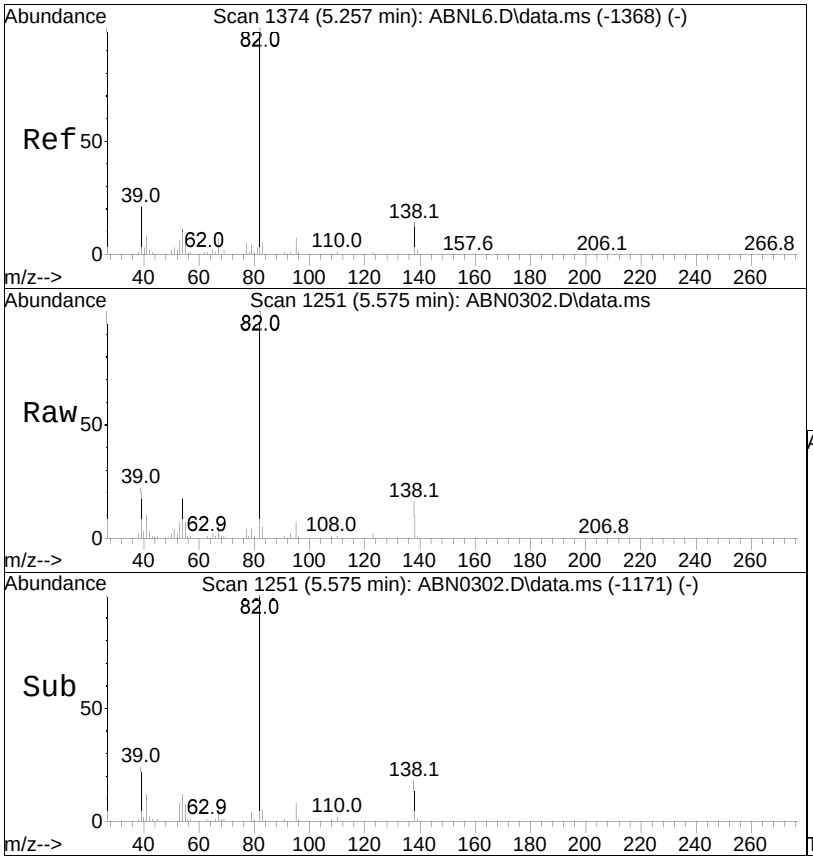


#20
Nitrobenzene
Concen: 4.28 ug/ml
RT: 5.336 min Scan# 1174
Delta R.T. 0.000 min
Lab File: ABN0302.D
Acq: 2 Mar 2024 1:55 pm

Tgt Ion: 77 Resp: 31519

Ion	Ratio	Lower	Upper
77	100		
123	43.2	36.3	54.5
65	14.9	11.6	17.4

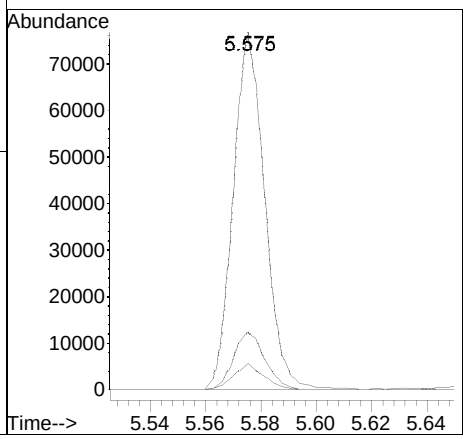


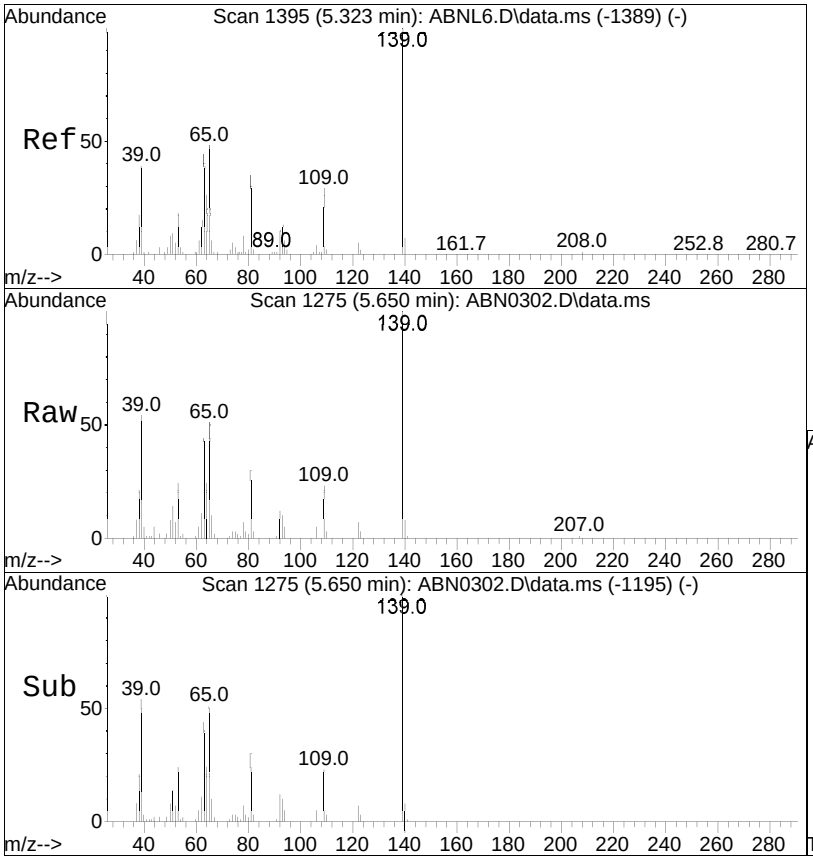


#21
Isophorone
Concen: 4.56 ug/ml
RT: 5.575 min Scan# 1251
Delta R.T. 0.000 min
Lab File: ABN0302.D
Acq: 2 Mar 2024 1:55 pm

Tgt Ion: 82 Resp: 59845

Ion	Ratio	Lower	Upper
82	100		
138	16.2	14.7	22.1
95	6.9	5.2	7.8

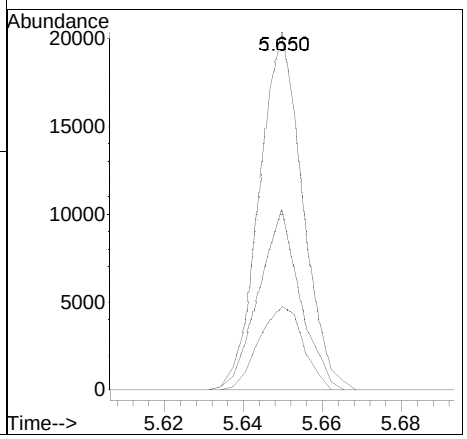


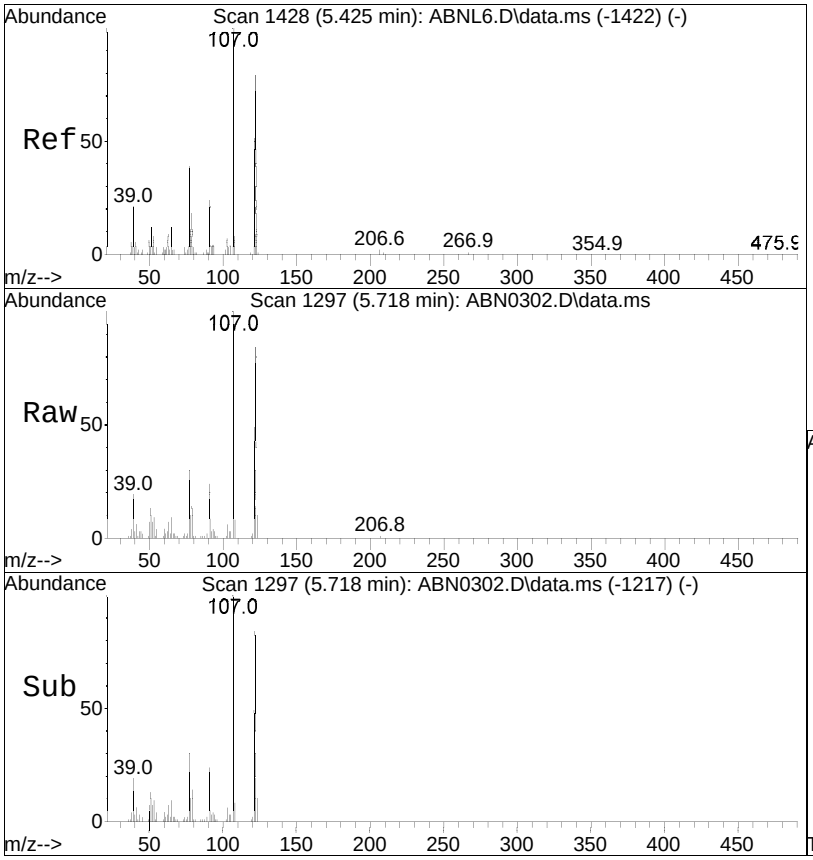


#22
2-Nitrophenol
Concen: 4.45 ug/ml
RT: 5.650 min Scan# 1275
Delta R.T. 0.000 min
Lab File: ABN0302.D
Acq: 2 Mar 2024 1:55 pm

Tgt Ion:139 Resp: 15332

Ion	Ratio	Lower	Upper
139	100		
109	23.9	19.4	29.0
65	48.6	46.1	69.1

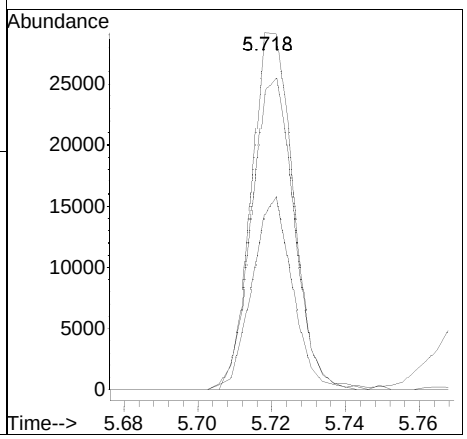


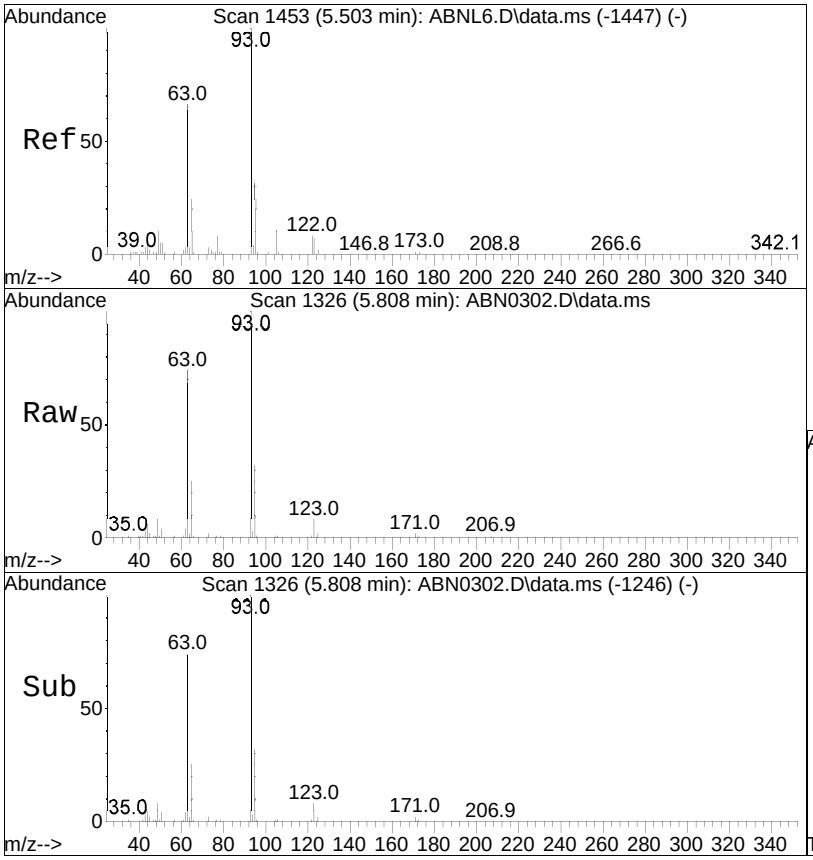


#23
2,4-Dimethylphenol
Concen: 4.29 ug/ml
RT: 5.718 min Scan# 1297
Delta R.T. 0.000 min
Lab File: ABN0302.D
Acq: 2 Mar 2024 1:55 pm

Tgt Ion:107 Resp: 23077

Ion	Ratio	Lower	Upper
107	100		
121	51.7	40.0	60.0
122	88.0	70.2	105.4

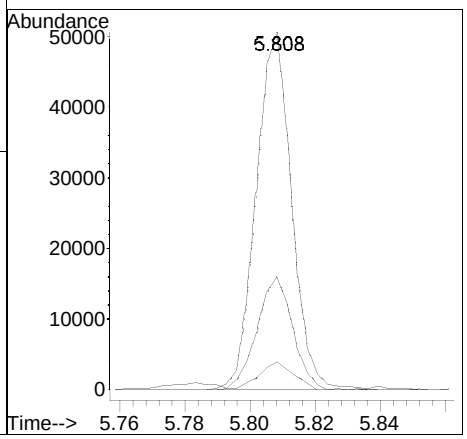


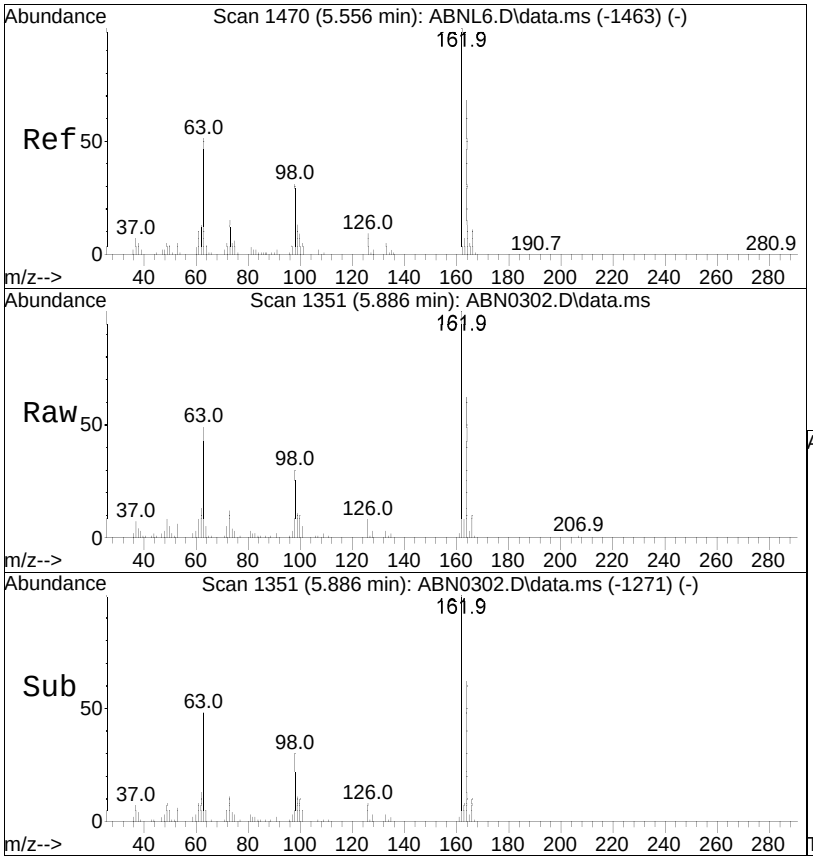


#24
Bis(2-chloroethoxy)methane
Concen: 4.51 ug/ml
RT: 5.808 min Scan# 1326
Delta R.T. 0.000 min
Lab File: ABN0302.D
Acq: 2 Mar 2024 1:55 pm

Tgt Ion: 93 Resp: 37983

Ion	Ratio	Lower	Upper
93	100		
95	32.1	25.8	38.8
123	7.5	10.1	15.1#

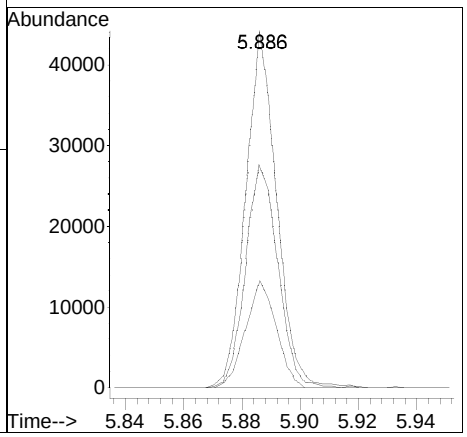


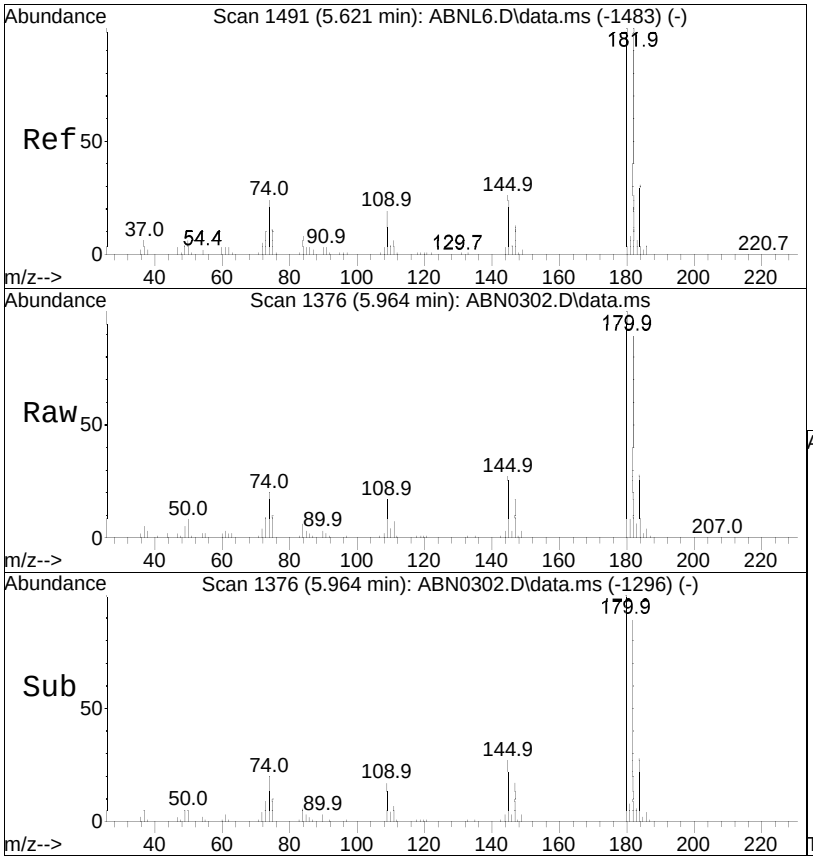


#25
2,4-Dichlorophenol
Concen: 4.69 ug/ml
RT: 5.886 min Scan# 1351
Delta R.T. 0.000 min
Lab File: ABN0302.D
Acq: 2 Mar 2024 1:55 pm

Tgt Ion:162 Resp: 32421

Ion	Ratio	Lower	Upper
162	100		
164	65.5	51.0	76.4
98	30.0	32.2	48.2#

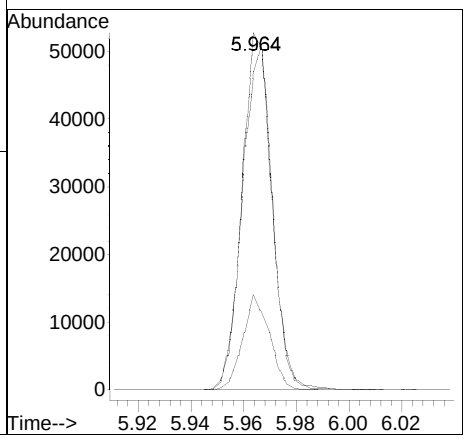


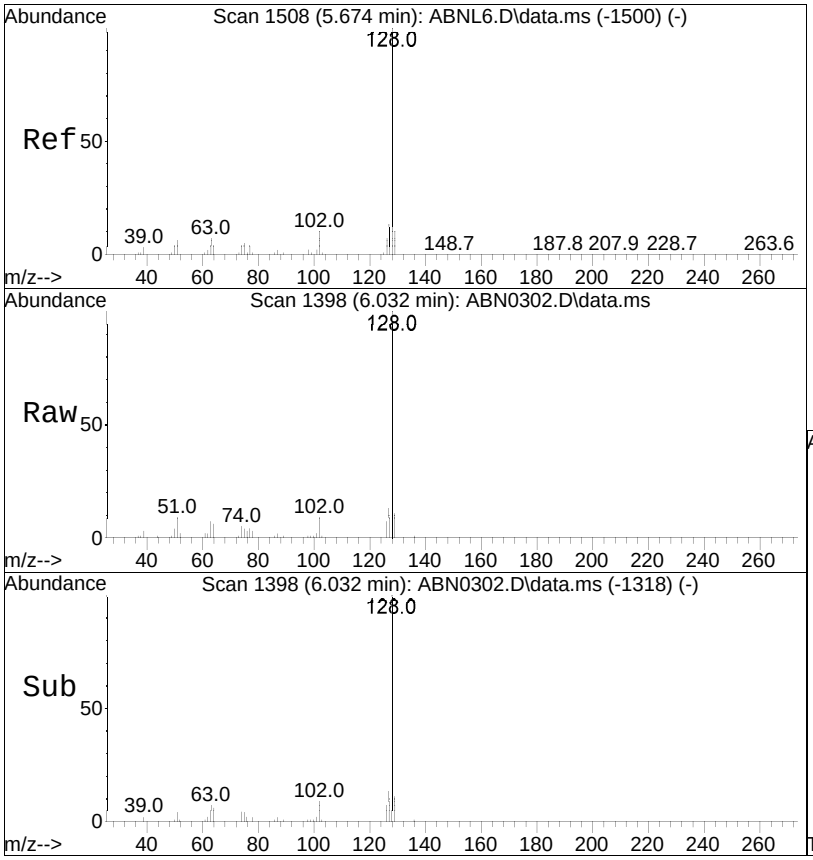


#26
1,2,4-Trichlorobenzene
Concen: 4.65 ug/ml
RT: 5.964 min Scan# 1376
Delta R.T. 0.000 min
Lab File: ABN0302.D
Acq: 2 Mar 2024 1:55 pm

Tgt Ion:180 Resp: 41346

Ion	Ratio	Lower	Upper
180	100		
182	97.6	76.0	114.0
145	24.2	25.7	38.5#

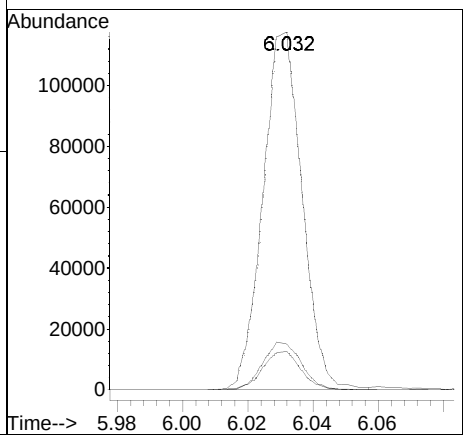


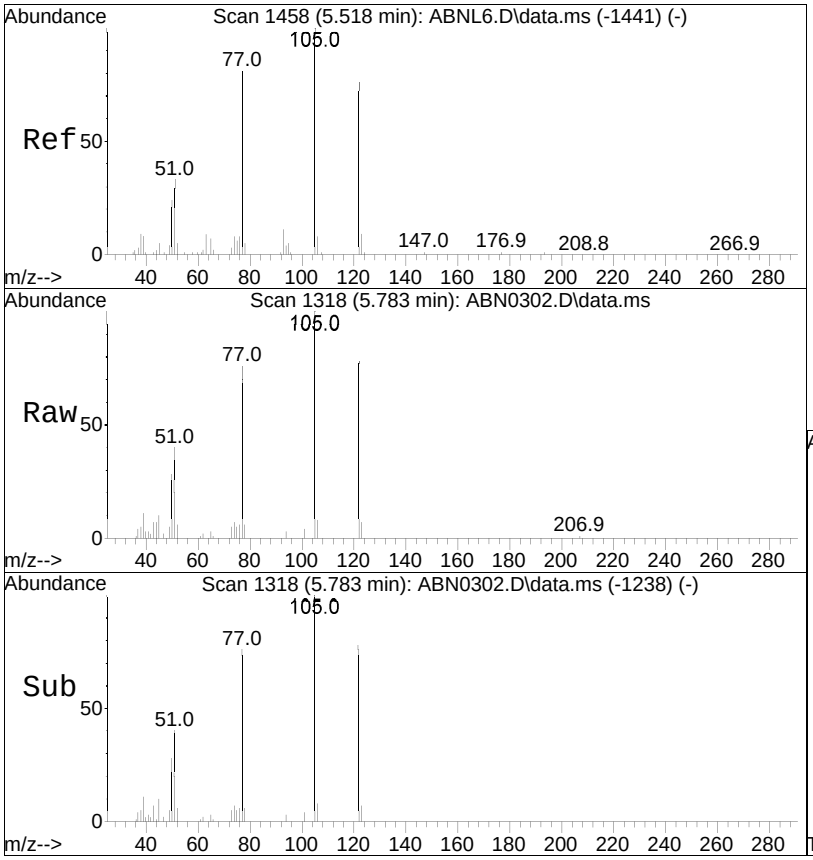


#34
Naphthalene
Concen: 4.70 ug/ml
RT: 6.032 min Scan# 1398
Delta R.T. 0.000 min
Lab File: ABN0302.D
Acq: 2 Mar 2024 1:55 pm

Tgt Ion:128 Resp: 97258

Ion	Ratio	Lower	Upper
128	100		
129	10.5	8.7	13.1
127	13.4	10.3	15.5

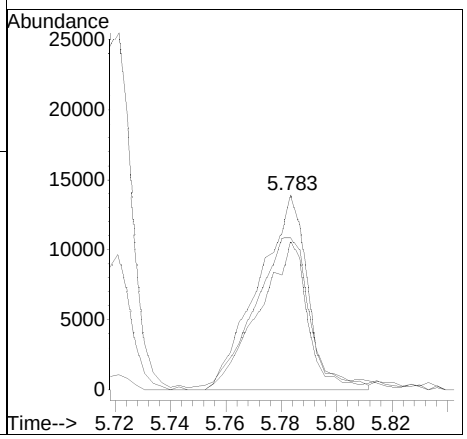


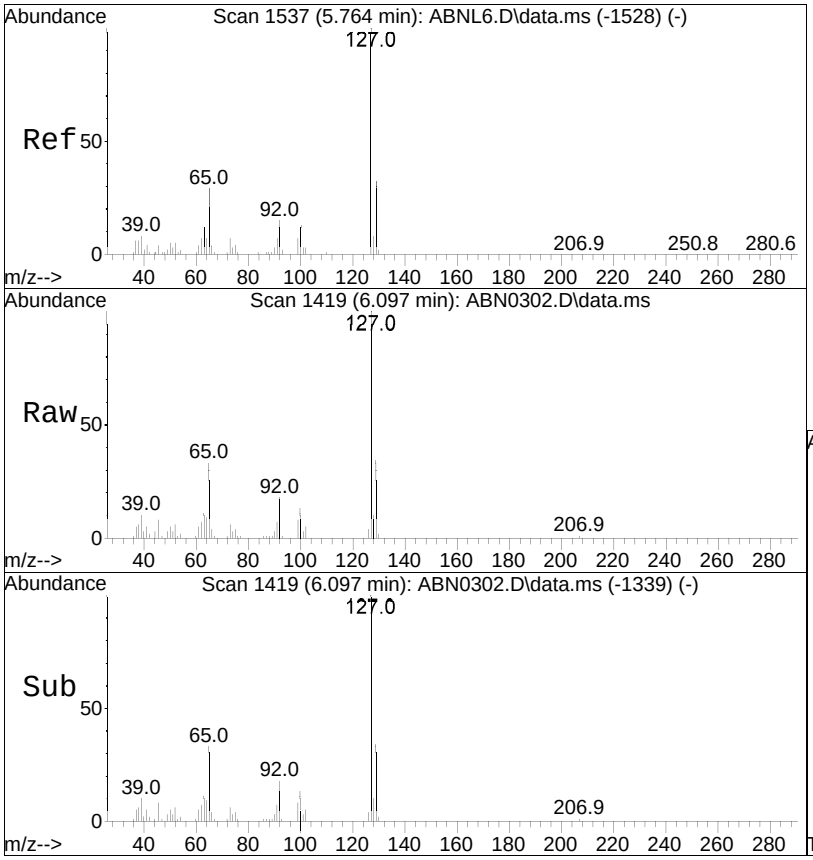


#35
Benzoic Acid
Concen: 4.61 ug/ml
RT: 5.783 min Scan# 1318
Delta R.T. 0.000 min
Lab File: ABN0302.D
Acq: 2 Mar 2024 1:55 pm

Tgt Ion:105 Resp: 17429

Ion	Ratio	Lower	Upper
105	100		
122	85.5	59.9	89.9
77	74.0	60.1	90.1

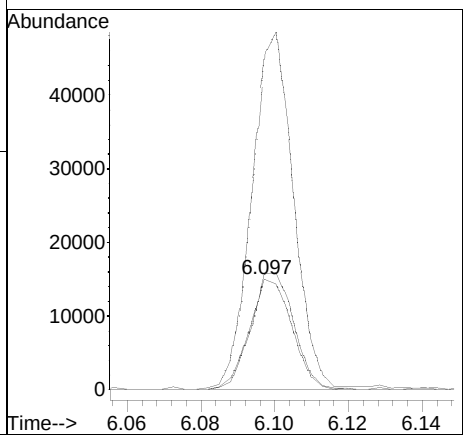


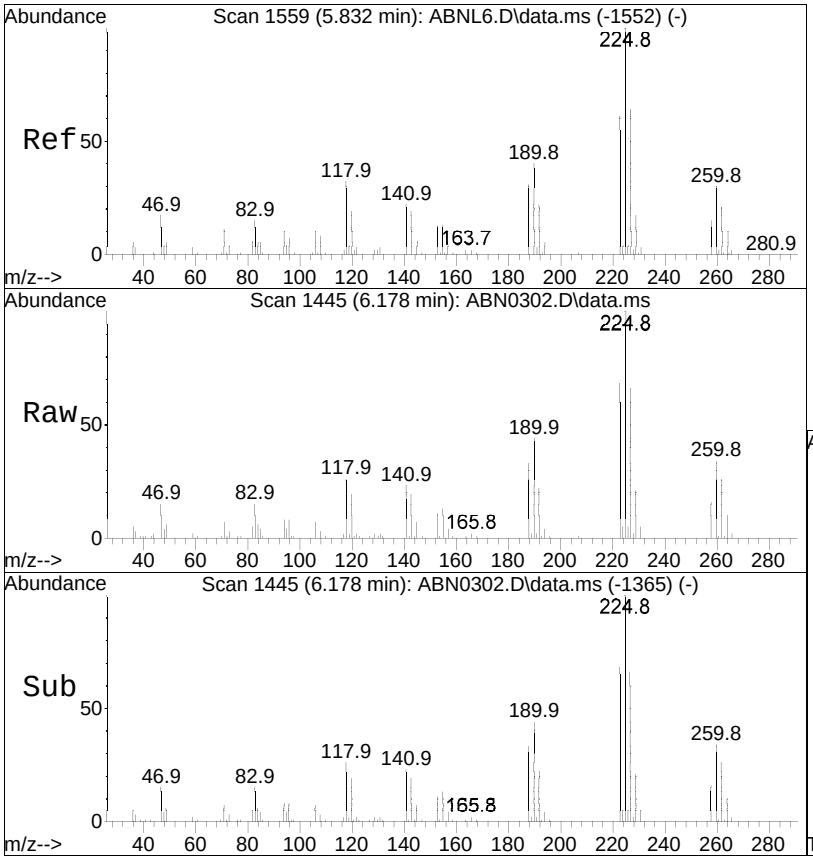


#36
4-Chloroaniline
Concen: 4.53 ug/ml
RT: 6.097 min Scan# 1419
Delta R.T. 0.000 min
Lab File: ABN0302.D
Acq: 2 Mar 2024 1:55 pm

Tgt Ion: 65 Resp: 11964

Ion	Ratio	Lower	Upper
65	100		
127	314.8	237.6	356.4
129	106.2	76.3	114.5

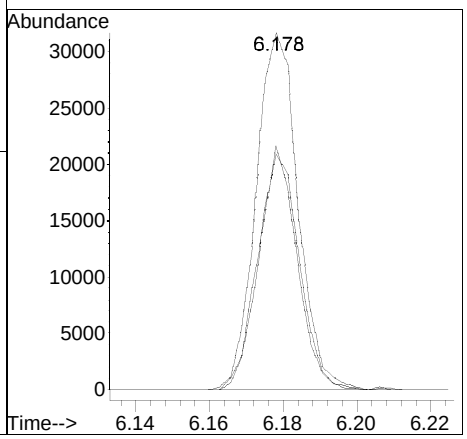


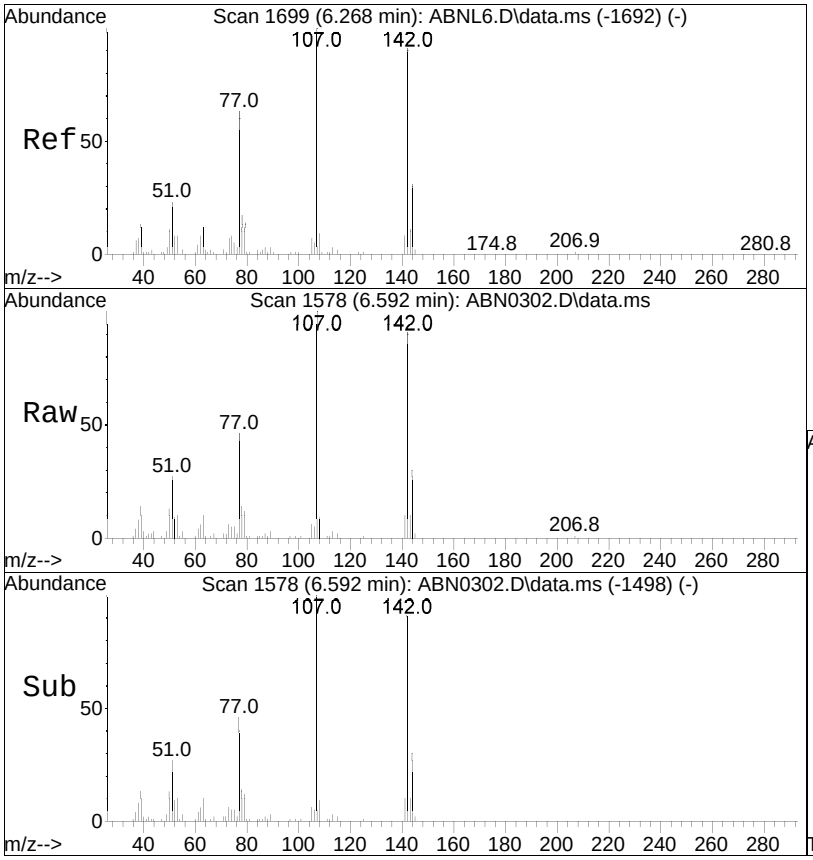


#37
Hexachlorobutadiene
Concen: 4.87 ug/ml
RT: 6.178 min Scan# 1445
Delta R.T. 0.000 min
Lab File: ABN0302.D
Acq: 2 Mar 2024 1:55 pm

Tgt Ion:225 Resp: 25006

Ion	Ratio	Lower	Upper
225	100		
223	63.1	50.3	75.5
227	65.0	52.2	78.2

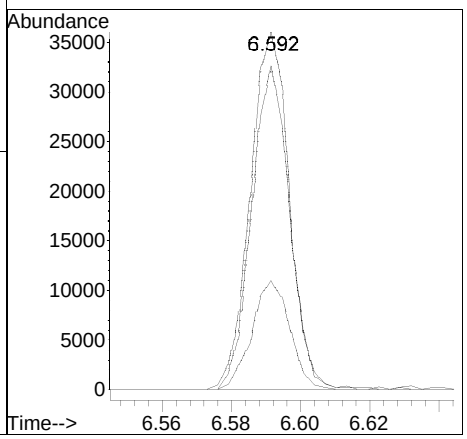


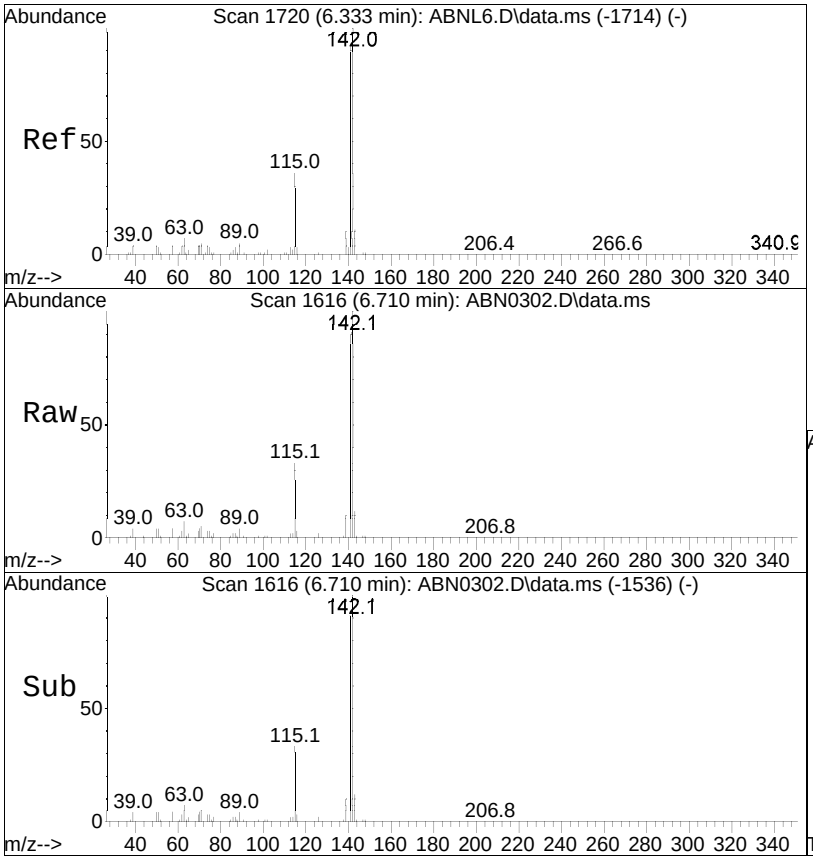


#38
p-Chloro-m-cresol
Concen: 4.84 ug/ml
RT: 6.592 min Scan# 1578
Delta R.T. 0.000 min
Lab File: ABN0302.D
Acq: 2 Mar 2024 1:55 pm

Tgt Ion:107 Resp: 27941

Ion	Ratio	Lower	Upper
107	100		
144	29.7	20.9	31.3
142	88.2	66.1	99.1

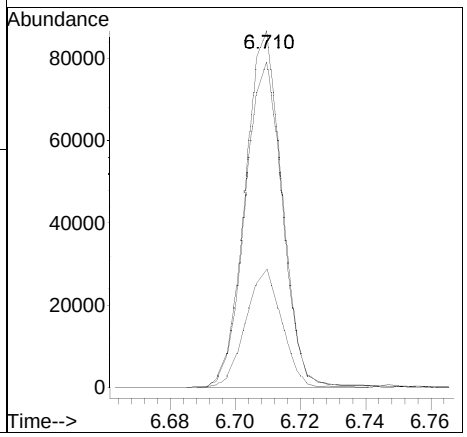


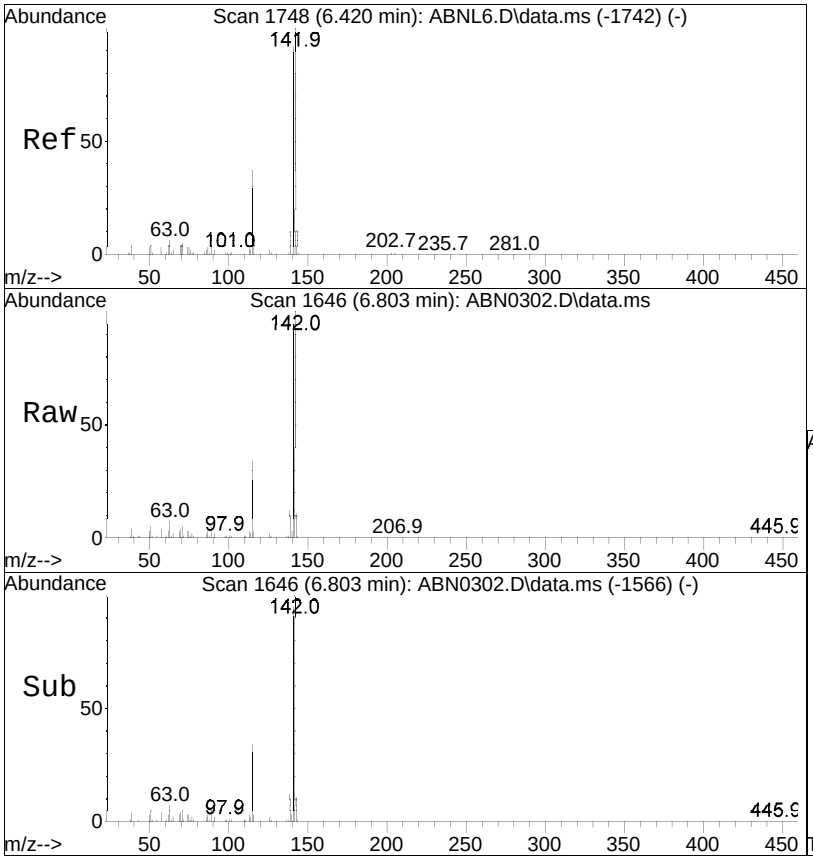


#39
2-Methylnaphthalene
Concen: 4.70 ug/ml
RT: 6.710 min Scan# 1616
Delta R.T. 0.000 min
Lab File: ABN0302.D
Acq: 2 Mar 2024 1:55 pm

Tgt Ion:142 Resp: 68450

Ion	Ratio	Lower	Upper
142	100		
141	93.5	69.6	104.4
115	33.1	26.6	40.0

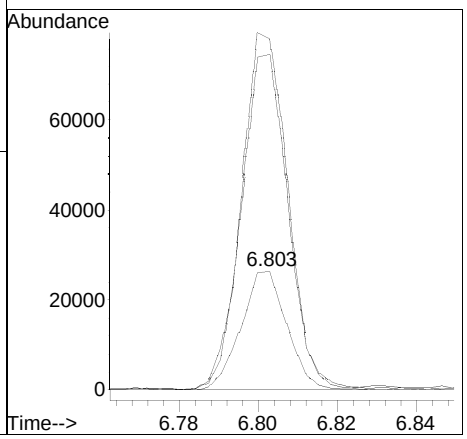


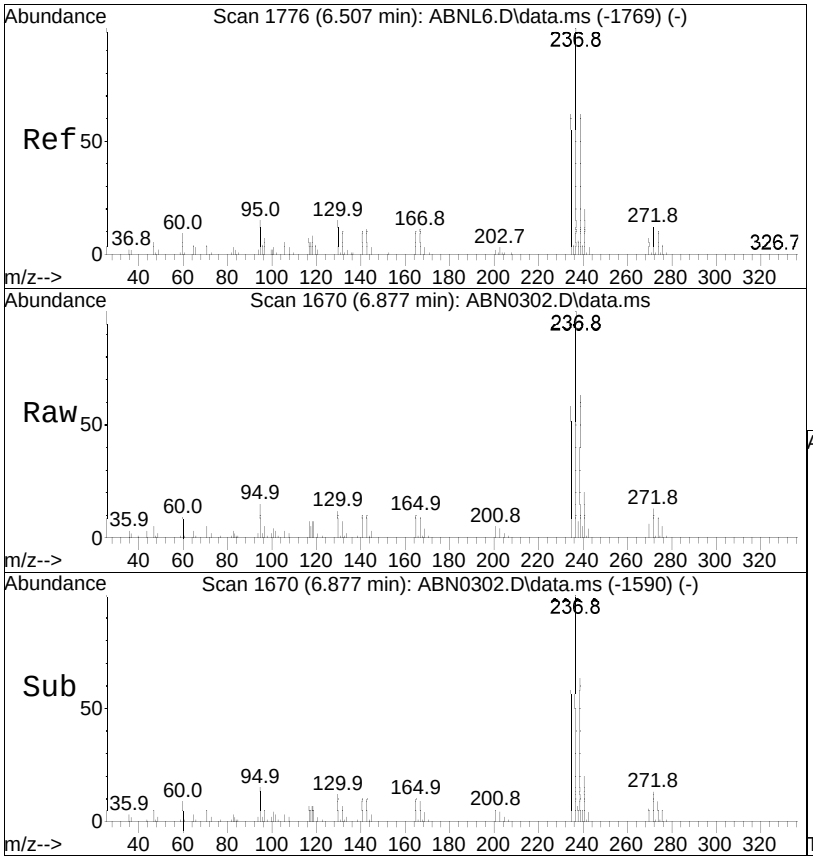


#40
1-Methylnaphthalene
Concen: 4.59 ug/ml
RT: 6.803 min Scan# 1646
Delta R.T. 0.000 min
Lab File: ABN0302.D
Acq: 2 Mar 2024 1:55 pm

Tgt Ion:115 Resp: 21359

Ion	Ratio	Lower	Upper
115	100		
141	281.8	207.8	311.6
142	305.0	226.8	340.2

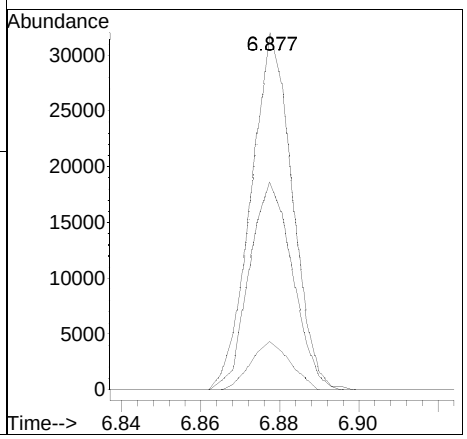


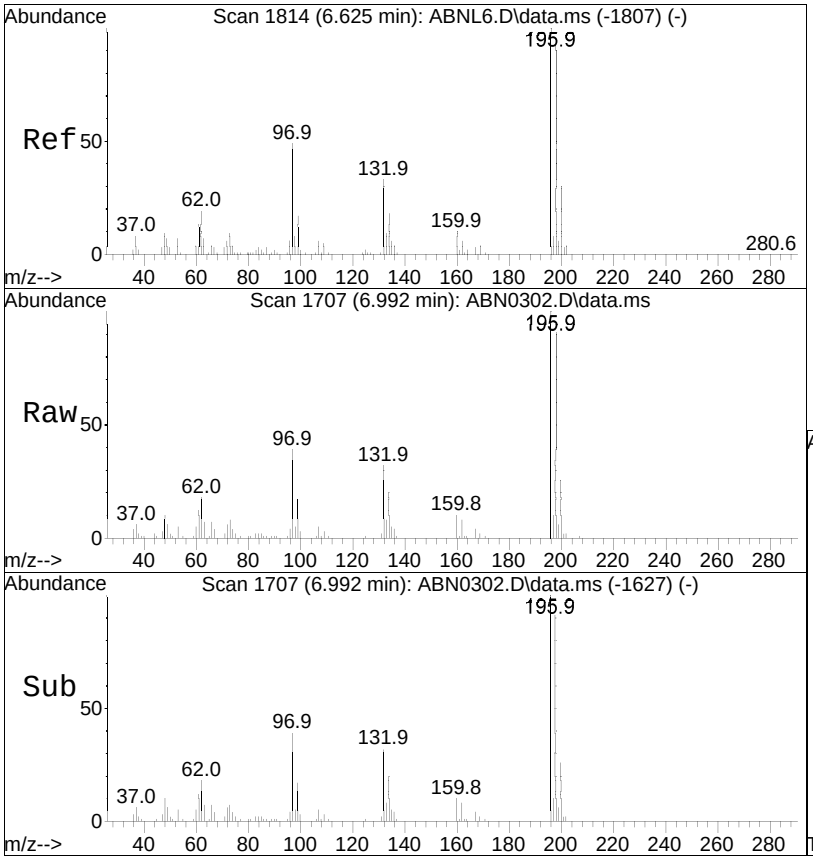


#41
Hexachlorocyclopentadiene
Concen: 4.86 ug/ml
RT: 6.877 min Scan# 1670
Delta R.T. 0.000 min
Lab File: ABN0302.D
Acq: 2 Mar 2024 1:55 pm

Tgt Ion:237 Resp: 23297

Ion	Ratio	Lower	Upper
237	100		
235	60.9	49.7	74.5
272	13.0	9.8	14.6

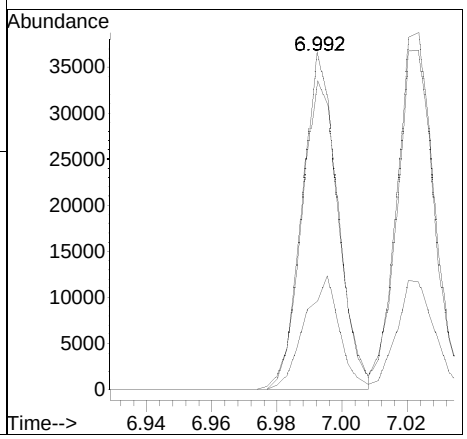


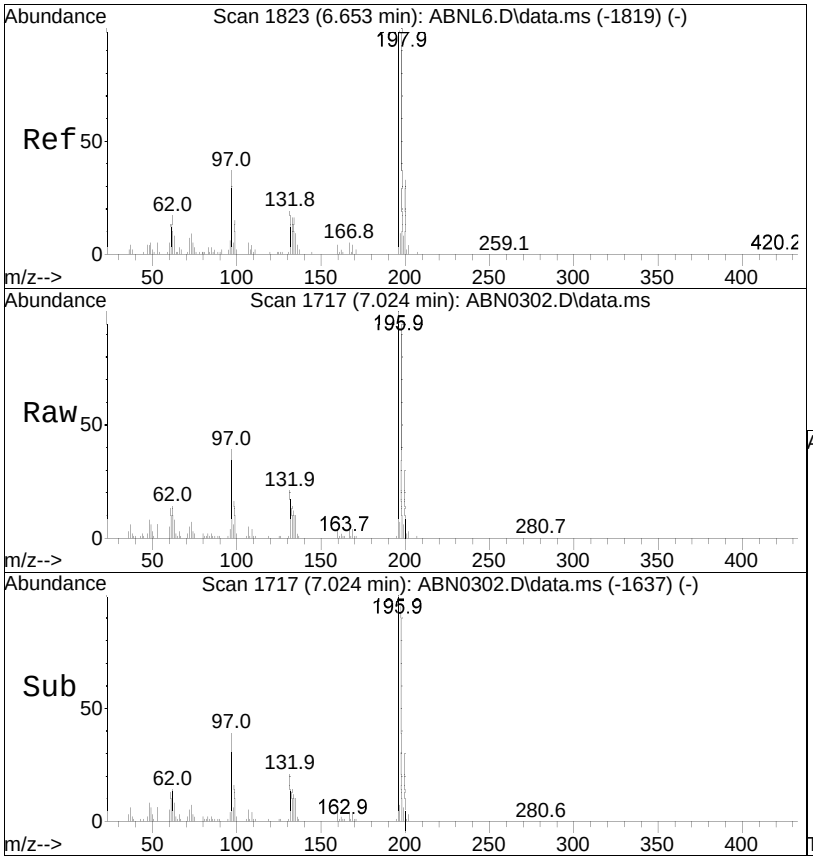


#42
2,4,6-Trichlorophenol
Concen: 4.90 ug/ml M3
RT: 6.992 min Scan# 1707
Delta R.T. 0.000 min
Lab File: ABN0302.D
Acq: 2 Mar 2024 1:55 pm

Tgt Ion:196 Resp: 27753

Ion	Ratio	Lower	Upper
196	100		
198	95.9	77.5	116.3
200	33.1	23.8	35.6

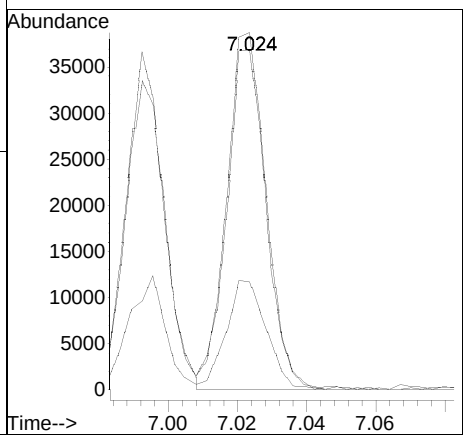


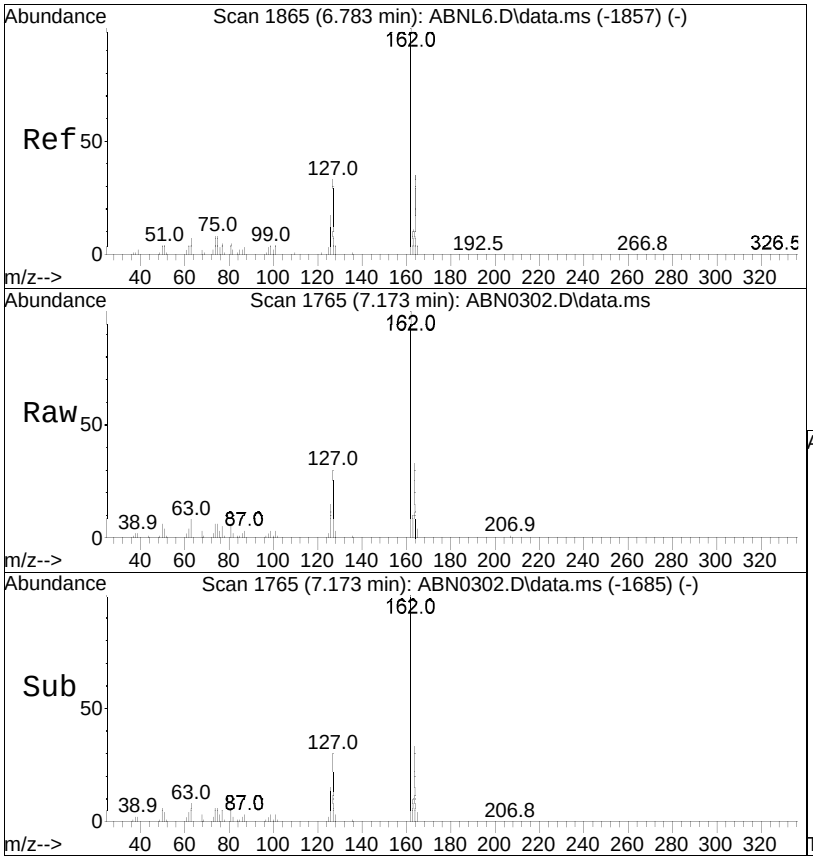


#43
2,4,5-Trichlorophenol
Concen: 4.96 ug/ml
RT: 7.024 min Scan# 1717
Delta R.T. 0.000 min
Lab File: ABN0302.D
Acq: 2 Mar 2024 1:55 pm

Tgt Ion:196 Resp: 30736

Ion	Ratio	Lower	Upper
196	100		
200	31.1	25.4	38.0
198	94.3	78.0	117.0

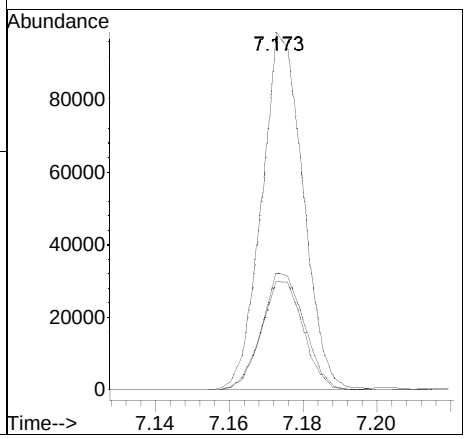


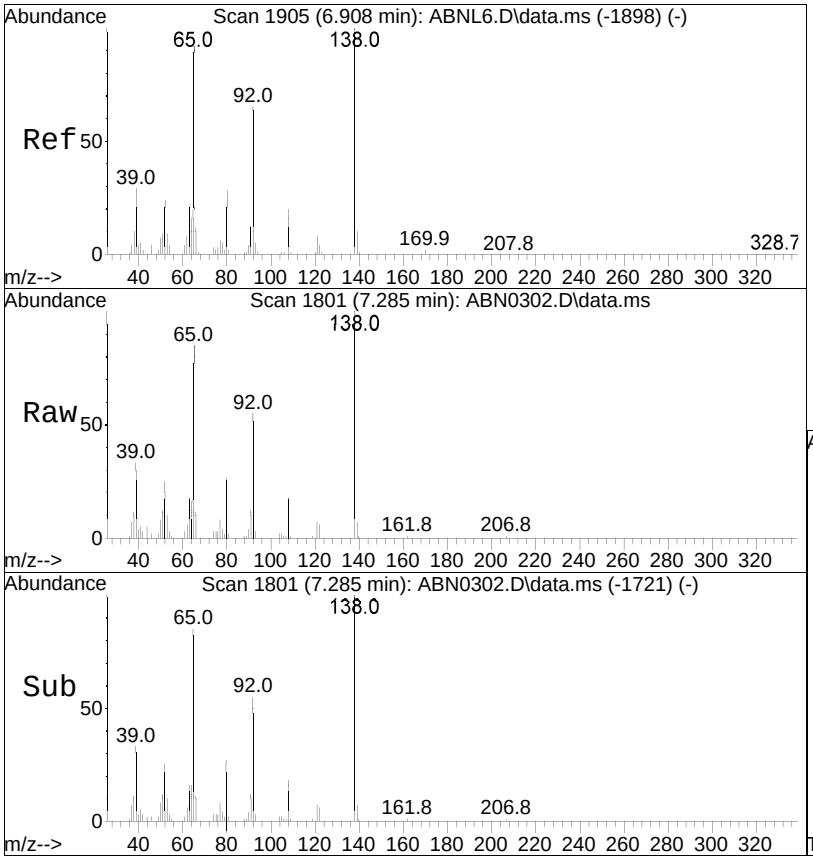


#45
2-Chloronaphthalene
Concen: 4.91 ug/ml
RT: 7.173 min Scan# 1765
Delta R.T. 0.000 min
Lab File: ABN0302.D
Acq: 2 Mar 2024 1:55 pm

Tgt Ion:162 Resp: 76279

Ion	Ratio	Lower	Upper
162	100		
127	31.0	32.2	48.4#
164	33.8	25.7	38.5

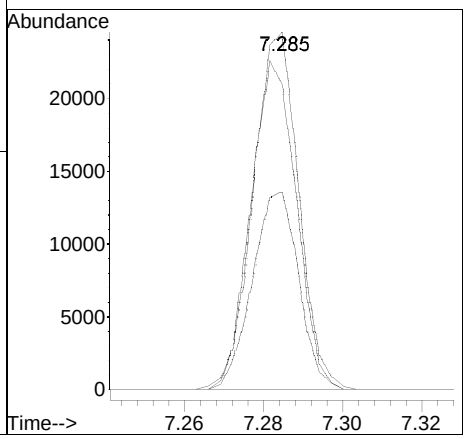


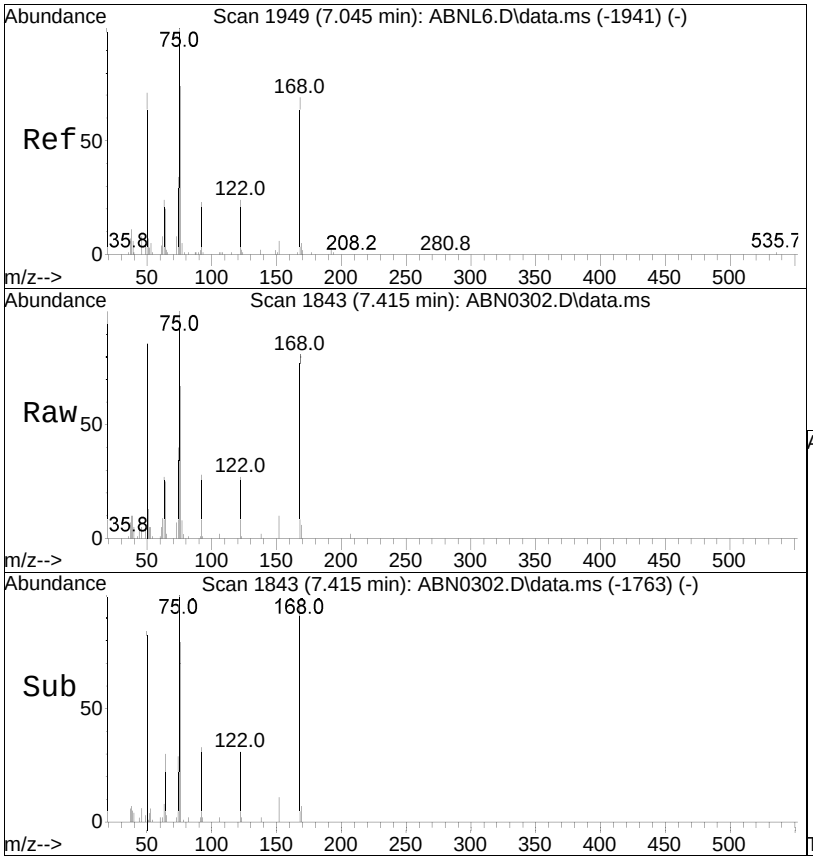


#46
2-Nitroaniline
Concen: 4.86 ug/ml
RT: 7.285 min Scan# 1801
Delta R.T. 0.000 min
Lab File: ABN0302.D
Acq: 2 Mar 2024 1:55 pm

Tgt Ion:138 Resp: 19655

Ion	Ratio	Lower	Upper
138	100		
92	55.9	53.5	80.3
65	90.1	86.3	129.5

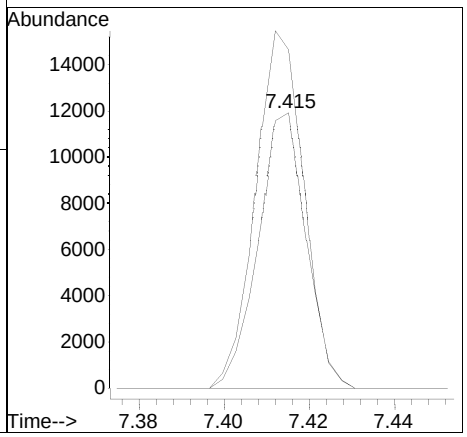


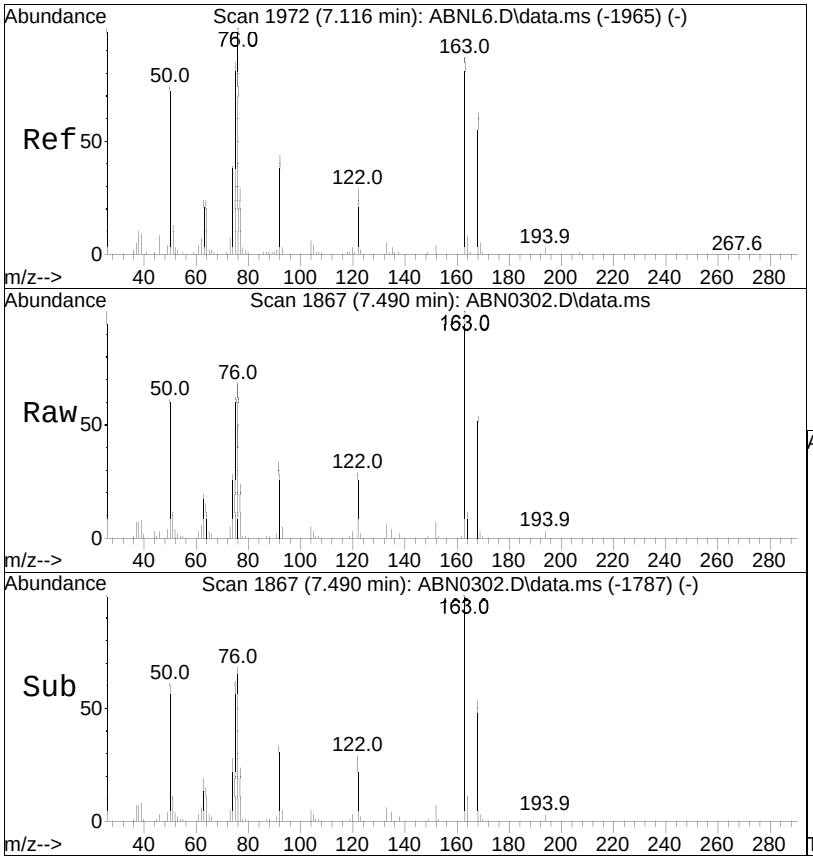


#47
1,4-Dinitrobenzene
Concen: 5.12 ug/ml
RT: 7.415 min Scan# 1843
Delta R.T. 0.000 min
Lab File: ABN0302.D
Acq: 2 Mar 2024 1:55 pm

Tgt Ion:168 Resp: 9311

Ion	Ratio	Lower	Upper
168	100		
75	130.4	121.8	182.8

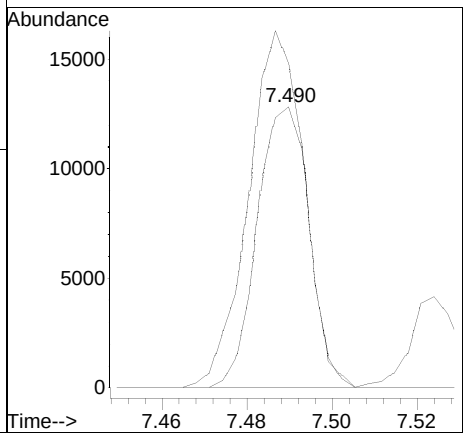


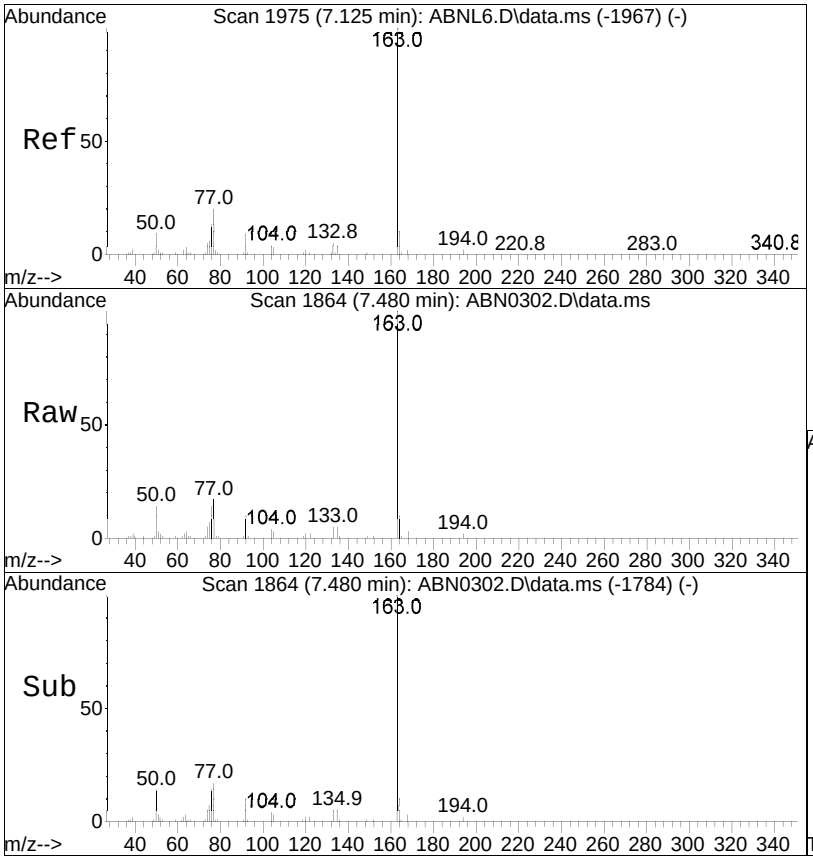


#48
1,3-Dinitrobenzene
Concen: 4.99 ug/ml
RT: 7.490 min Scan# 1867
Delta R.T. 0.000 min
Lab File: ABN0302.D
Acq: 2 Mar 2024 1:55 pm

Tgt Ion:168 Resp: 10824

Ion	Ratio	Lower	Upper
168	100		
75	136.2	22.7	34.1#

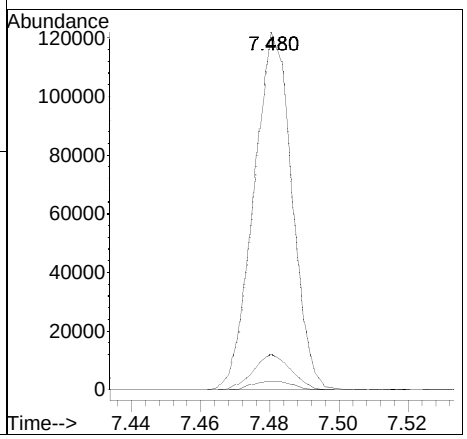


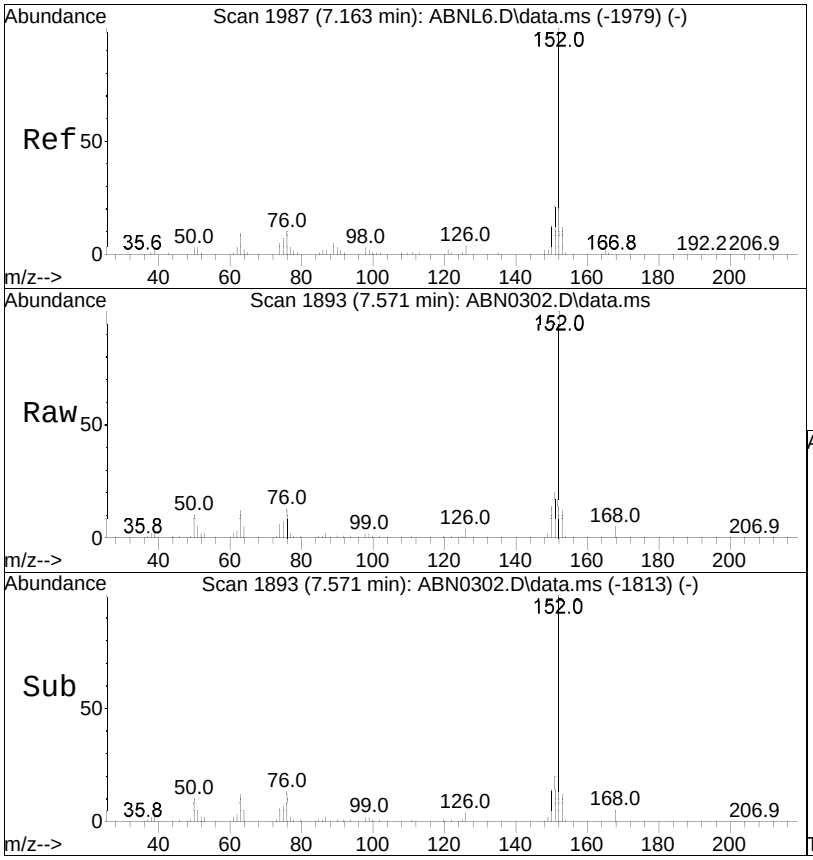


#49
Dimethyl phthalate
Concen: 5.26 ug/ml
RT: 7.480 min Scan# 1864
Delta R.T. 0.000 min
Lab File: ABN0302.D
Acq: 2 Mar 2024 1:55 pm

Tgt Ion:163 Resp: 92425

Ion	Ratio	Lower	Upper
163	100		
194	2.6	3.5	5.3#
164	9.9	7.9	11.9

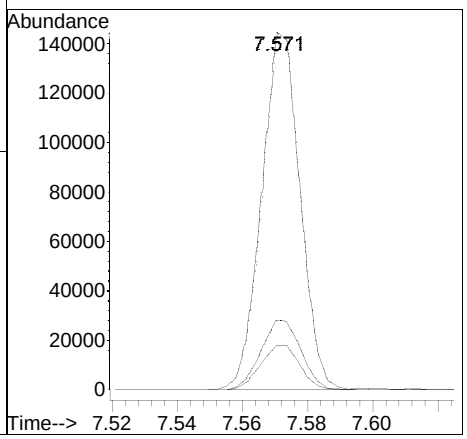


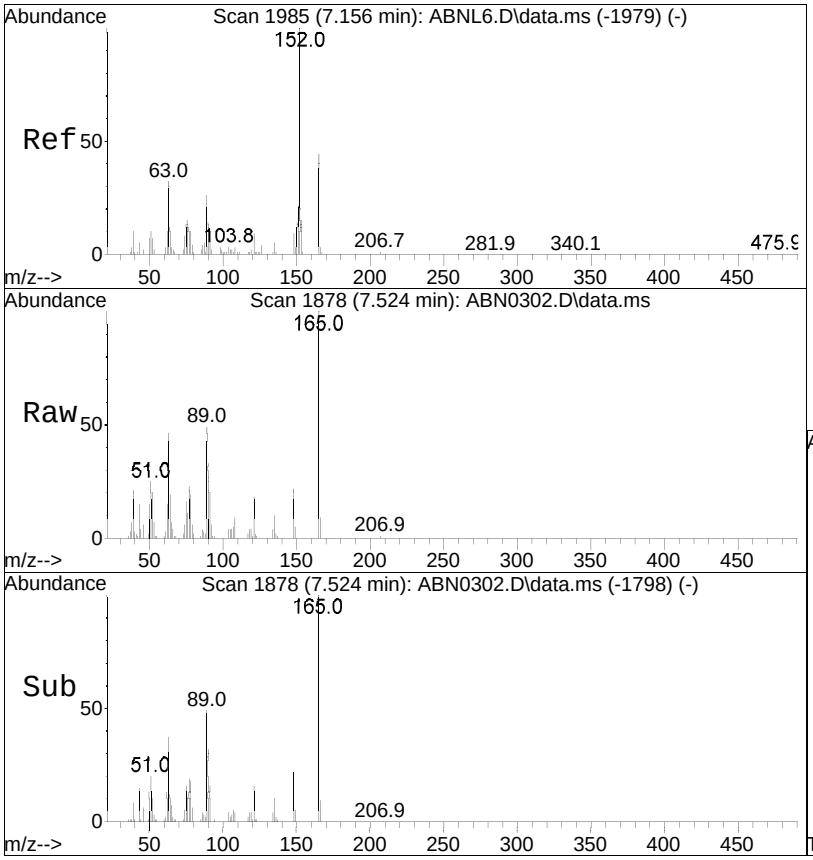


#50
Acenaphthylene
Concen: 4.99 ug/ml
RT: 7.571 min Scan# 1893
Delta R.T. 0.000 min
Lab File: ABN0302.D
Acq: 2 Mar 2024 1:55 pm

Tgt Ion:152 Resp: 117307

Ion	Ratio	Lower	Upper
152	100		
151	20.4	15.8	23.6
153	12.9	10.5	15.7

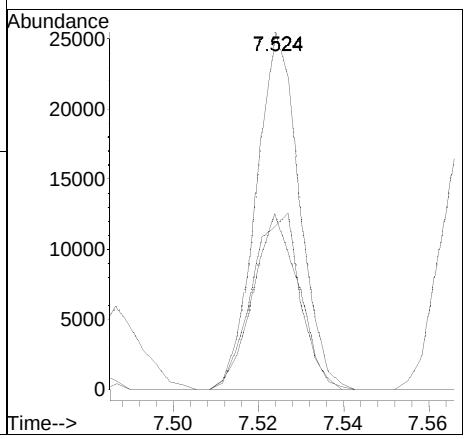


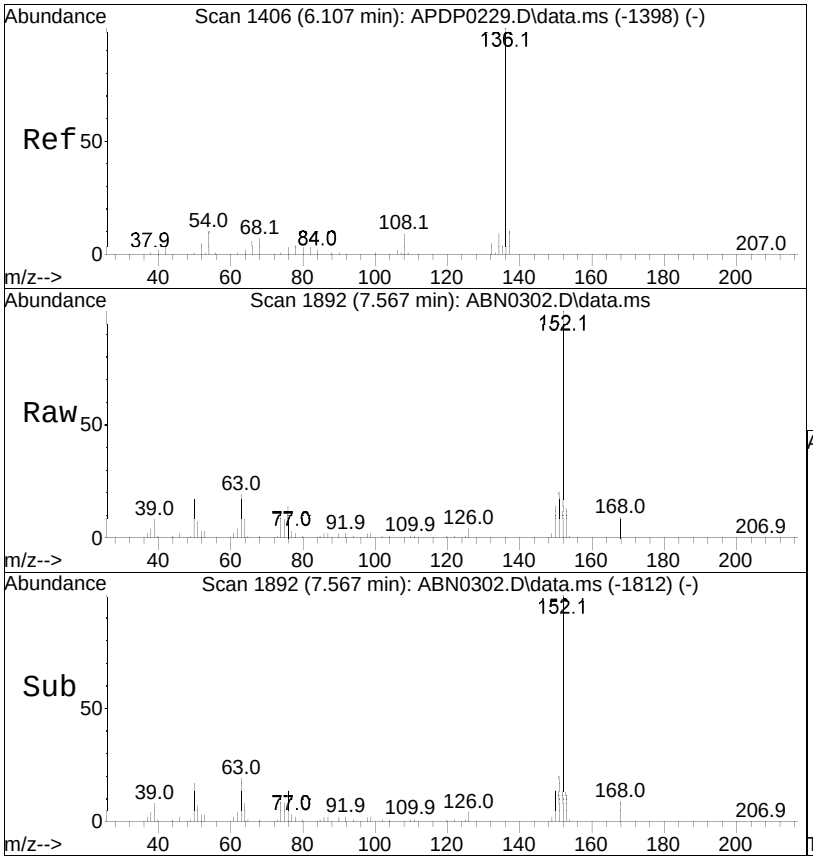


#51
2,6-Dinitrotoluene
Concen: 5.26 ug/ml
RT: 7.524 min Scan# 1878
Delta R.T. 0.000 min
Lab File: ABN0302.D
Acq: 2 Mar 2024 1:55 pm

Tgt Ion:165 Resp: 18097

Ion	Ratio	Lower	Upper
165	100		
89	51.9	54.2	81.2#
63	54.6	64.2	96.2#

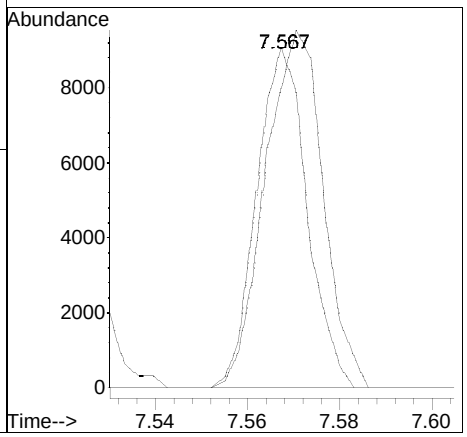


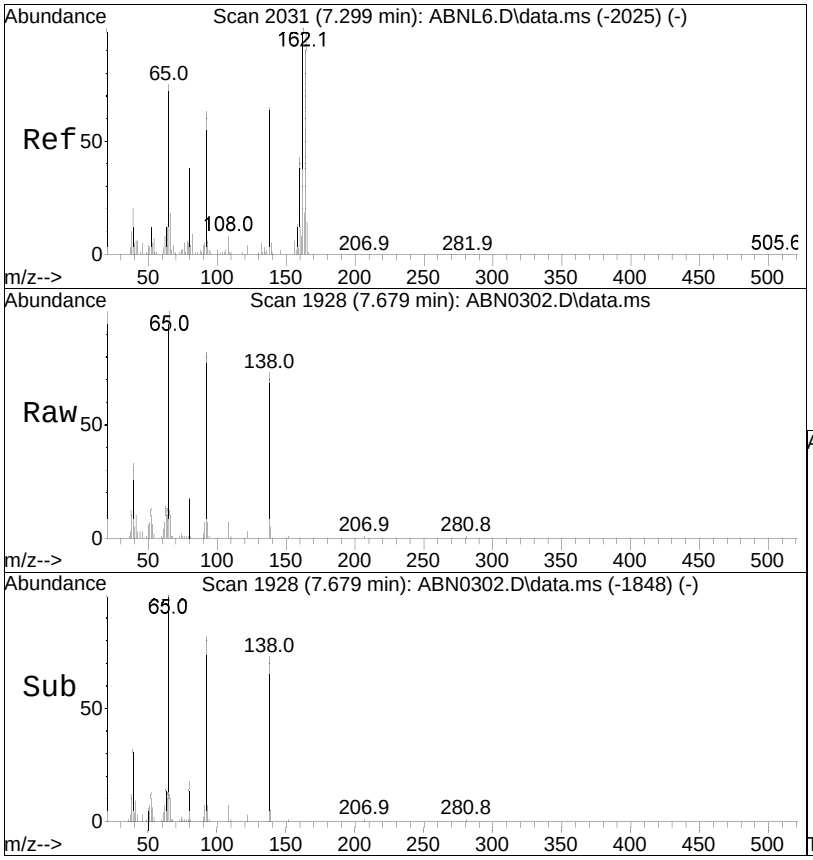


#52
1,2-Dinitrobenzene
Concen: 4.98 ug/ml
RT: 7.567 min Scan# 1892
Delta R.T. 0.000 min
Lab File: ABN0302.D
Acq: 2 Mar 2024 1:55 pm

Tgt Ion:168 Resp: 6849

Ion	Ratio	Lower	Upper
168	100		
75	120.4	30.9	46.3#

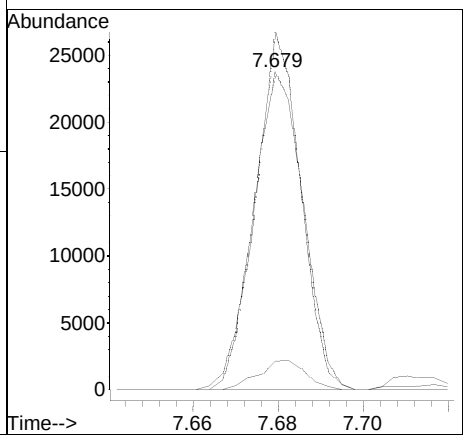


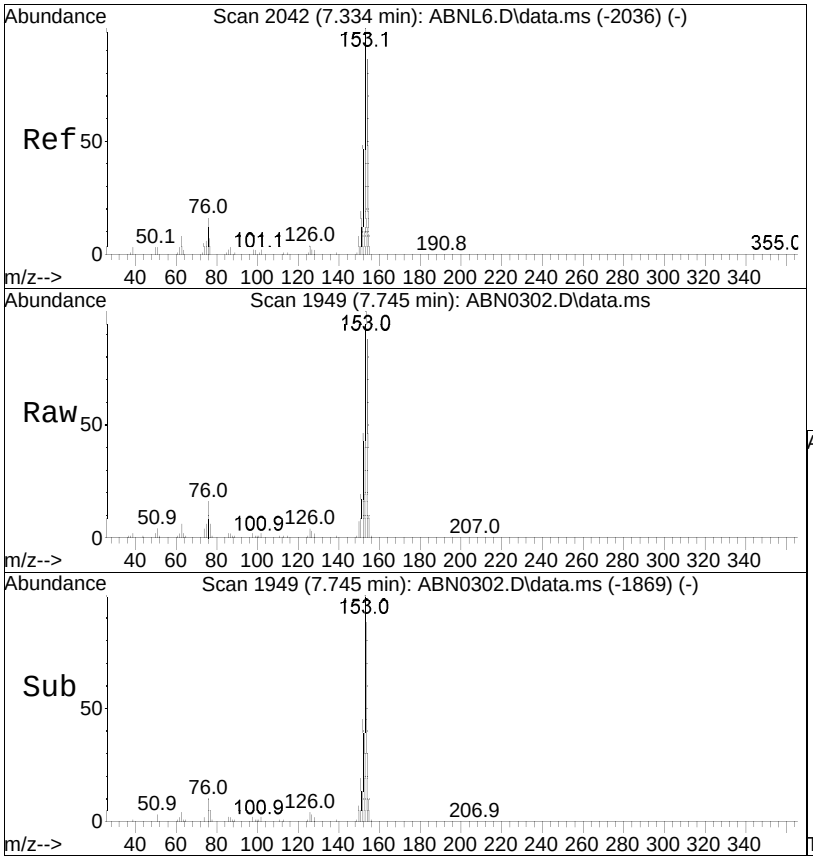


#62
3-Nitroaniline
Concen: 4.77 ug/ml
RT: 7.679 min Scan# 1928
Delta R.T. 0.000 min
Lab File: ABN0302.D
Acq: 2 Mar 2024 1:55 pm

Tgt Ion:138 Resp: 19172

Ion	Ratio	Lower	Upper
138	100		
92	102.5	93.4	140.2
108	8.8	9.5	14.3#

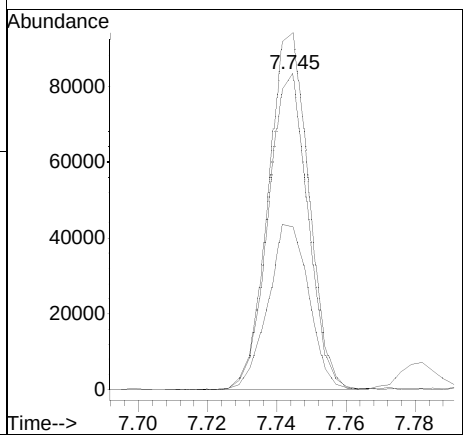


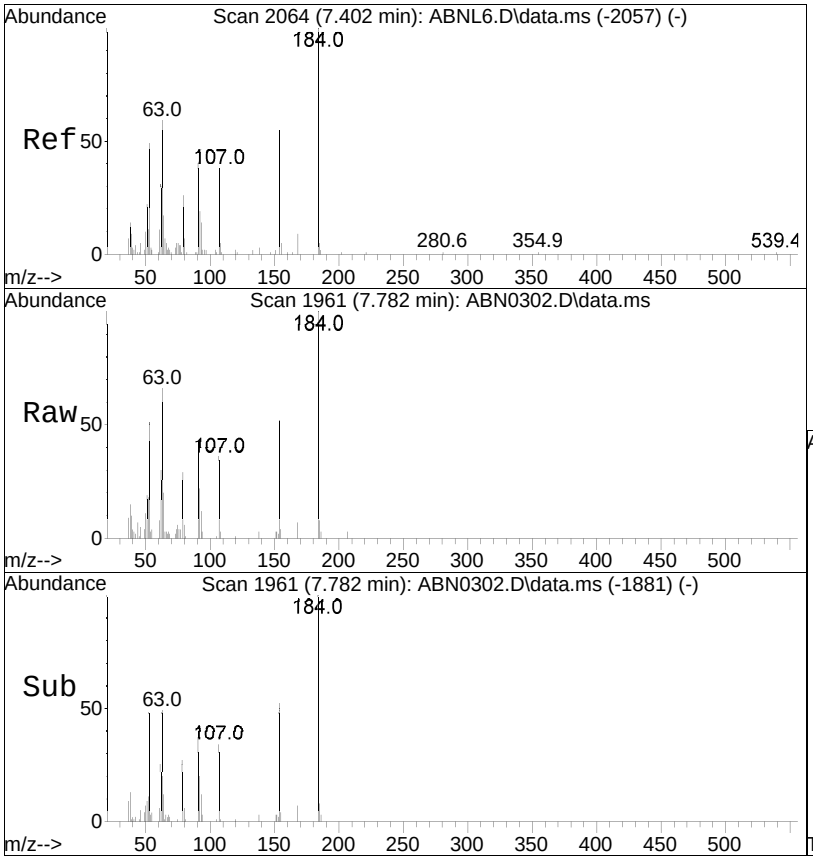


#63
Acenaphthene
Concen: 4.62 ug/ml
RT: 7.745 min Scan# 1949
Delta R.T. 0.000 min
Lab File: ABN0302.D
Acq: 2 Mar 2024 1:55 pm

Tgt Ion:154 Resp: 66480

Ion	Ratio	Lower	Upper
154	100		
153	114.7	85.3	127.9
152	54.4	41.4	62.0

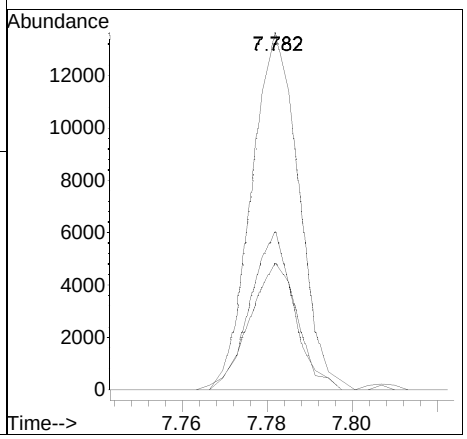


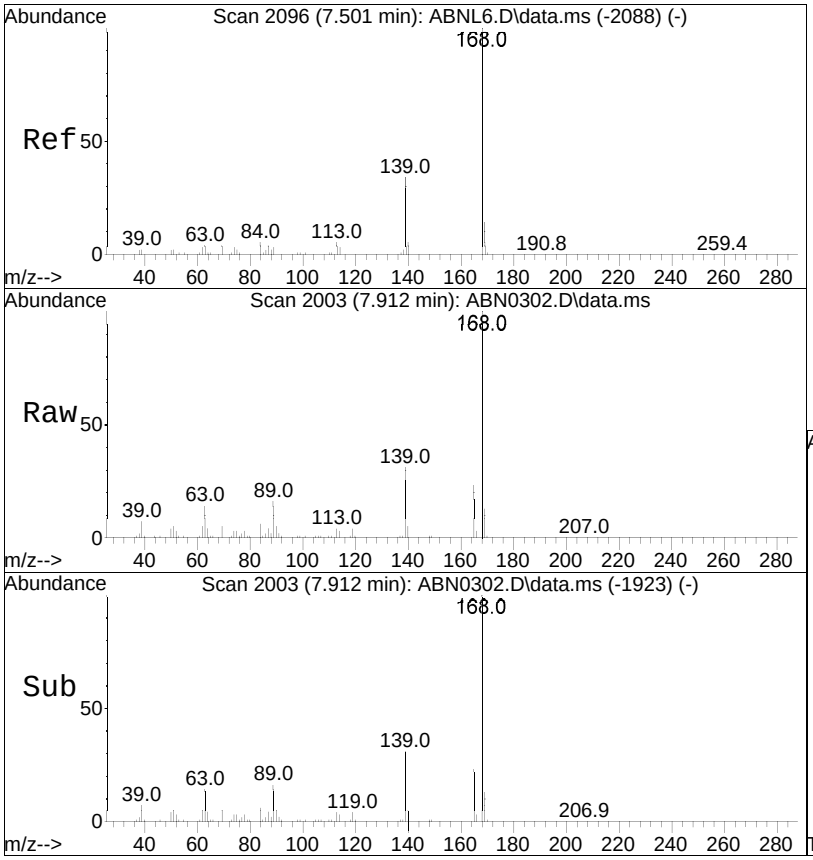


#64
2,4-Dinitrophenol
Concen: 4.88 ug/ml
RT: 7.782 min Scan# 1961
Delta R.T. 0.000 min
Lab File: ABN0302.D
Acq: 2 Mar 2024 1:55 pm

Tgt Ion:184 Resp: 10482

Ion	Ratio	Lower	Upper
184	100		
107	36.2	37.7	56.5#
91	40.9	46.3	69.5#

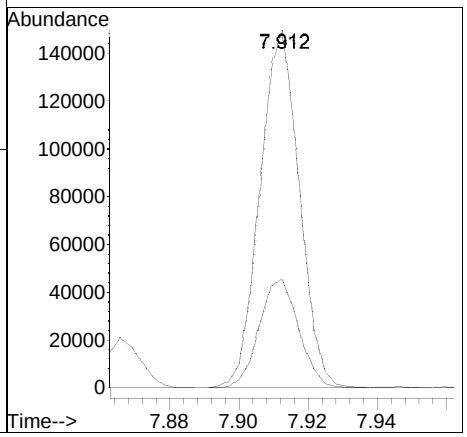


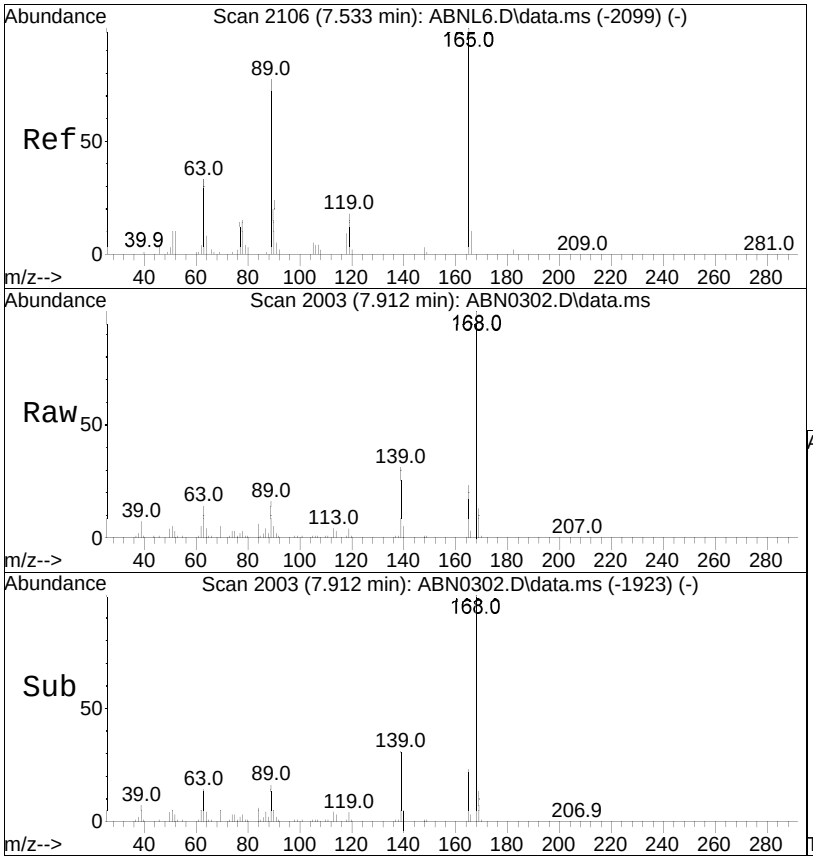


#65
Dibenzofuran
Concen: 4.71 ug/ml
RT: 7.912 min Scan# 2003
Delta R.T. 0.000 min
Lab File: ABN0302.D
Acq: 2 Mar 2024 1:55 pm

Tgt Ion:168 Resp: 117157

Ion	Ratio	Lower	Upper
168	100		
139	30.6	31.4	47.2#

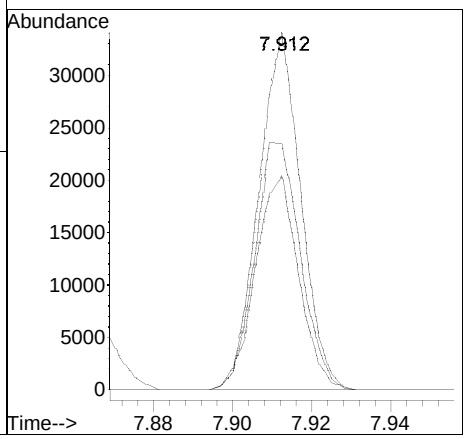


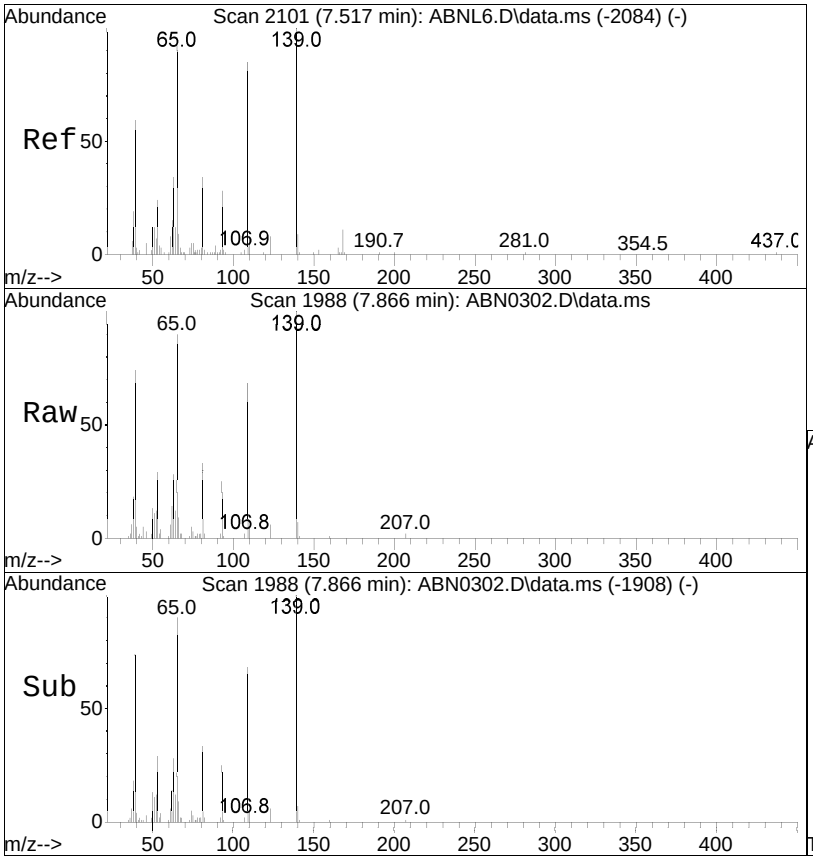


#66
2,4-Dinitrotoluene
Concen: 4.66 ug/ml
RT: 7.912 min Scan# 2003
Delta R.T. 0.000 min
Lab File: ABN0302.D
Acq: 2 Mar 2024 1:55 pm

Tgt Ion:165 Resp: 24943

Ion	Ratio	Lower	Upper
165	100		
89	75.1	72.0	108.0
63	61.9	52.7	79.1

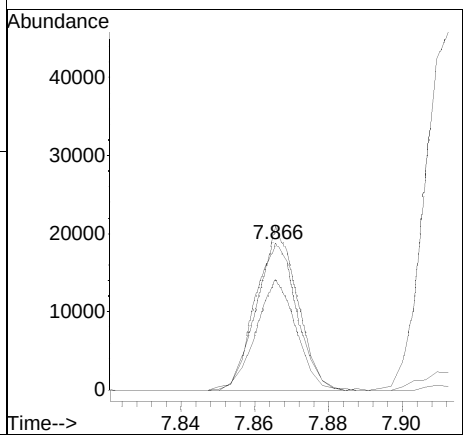


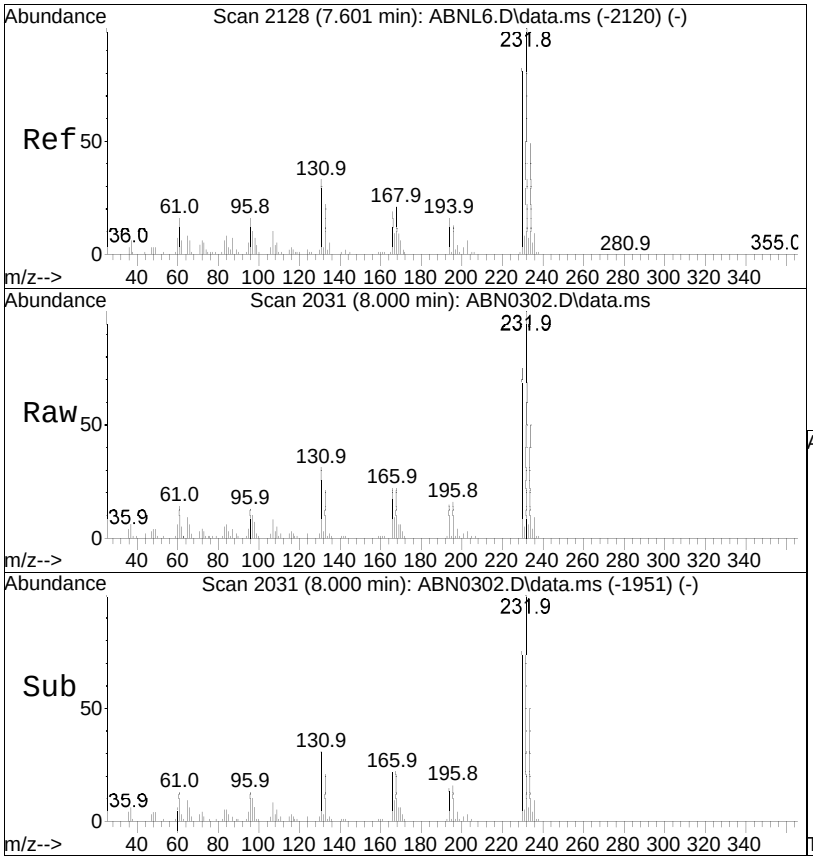


#67
4-Nitrophenol
Concen: 4.52 ug/ml
RT: 7.866 min Scan# 1988
Delta R.T. 0.000 min
Lab File: ABN0302.D
Acq: 2 Mar 2024 1:55 pm

Tgt Ion: 65 Resp: 15008

Ion	Ratio	Lower	Upper
65	100		
109	70.5	47.4	71.2
139	104.4	76.6	115.0

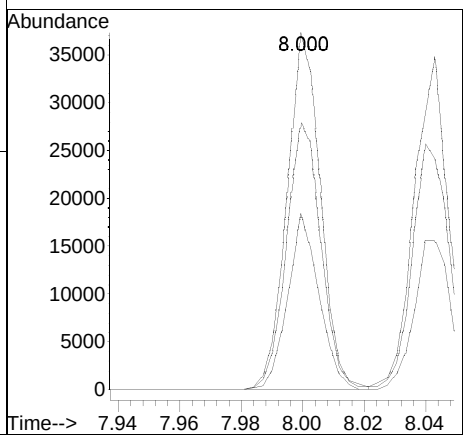


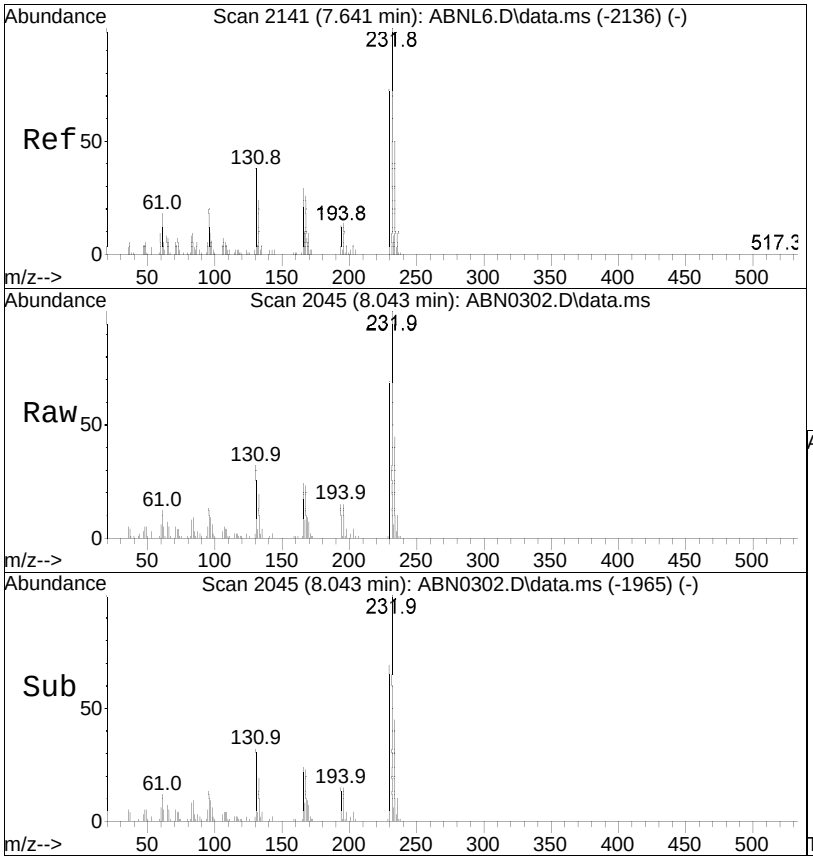


#68
2,3,5,6-Tetrachlorophenol
Concen: 4.84 ug/ml M3
RT: 8.000 min Scan# 2031
Delta R.T. 0.000 min
Lab File: ABN0302.D
Acq: 2 Mar 2024 1:55 pm

Tgt Ion:232 Resp: 28308

Ion	Ratio	Lower	Upper
232	100		
230	77.2	64.2	96.4
234	46.2	38.1	57.1

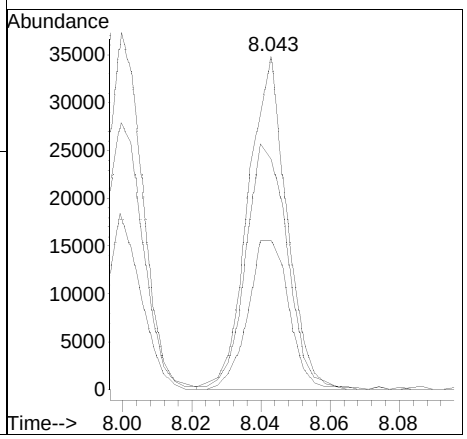


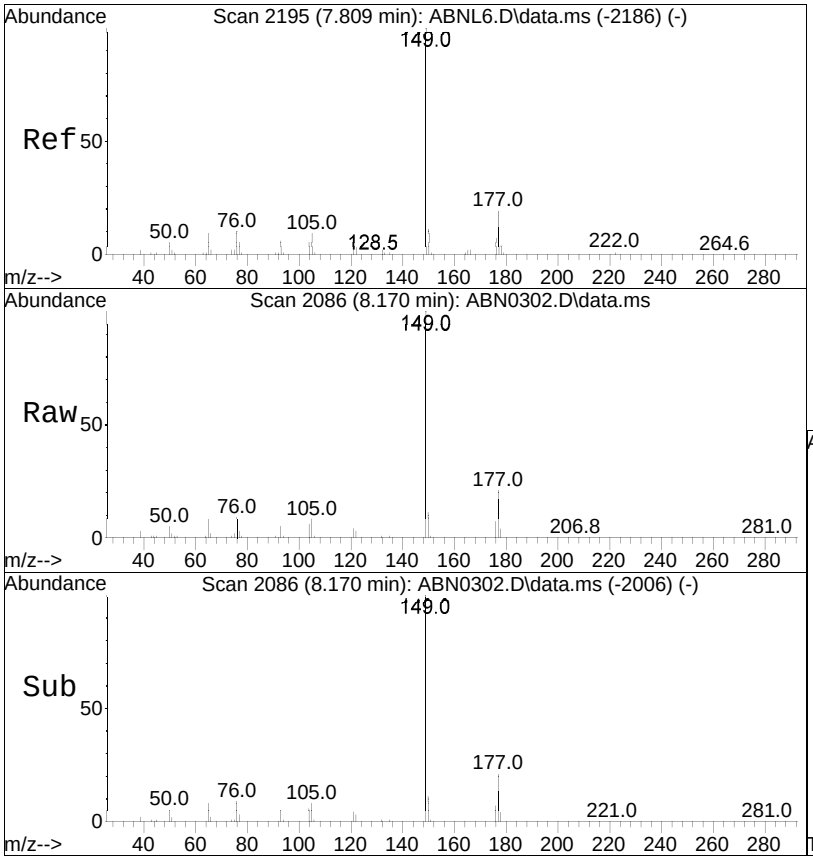


#69
2,3,4,6-Tetrachlorophenol
Concen: 4.86 ug/ml
RT: 8.043 min Scan# 2045
Delta R.T. 0.000 min
Lab File: ABN0302.D
Acq: 2 Mar 2024 1:55 pm

Tgt Ion:232 Resp: 27195

Ion	Ratio	Lower	Upper
232	100		
230	78.7	61.8	92.8
234	47.4	36.2	54.2

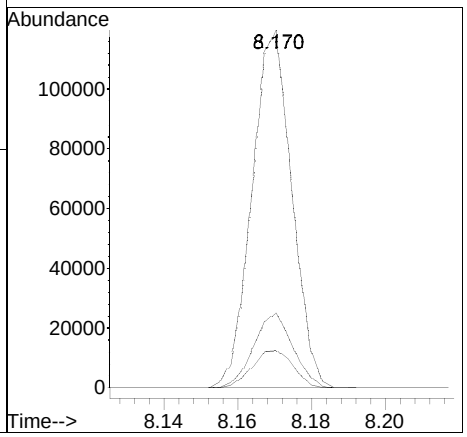


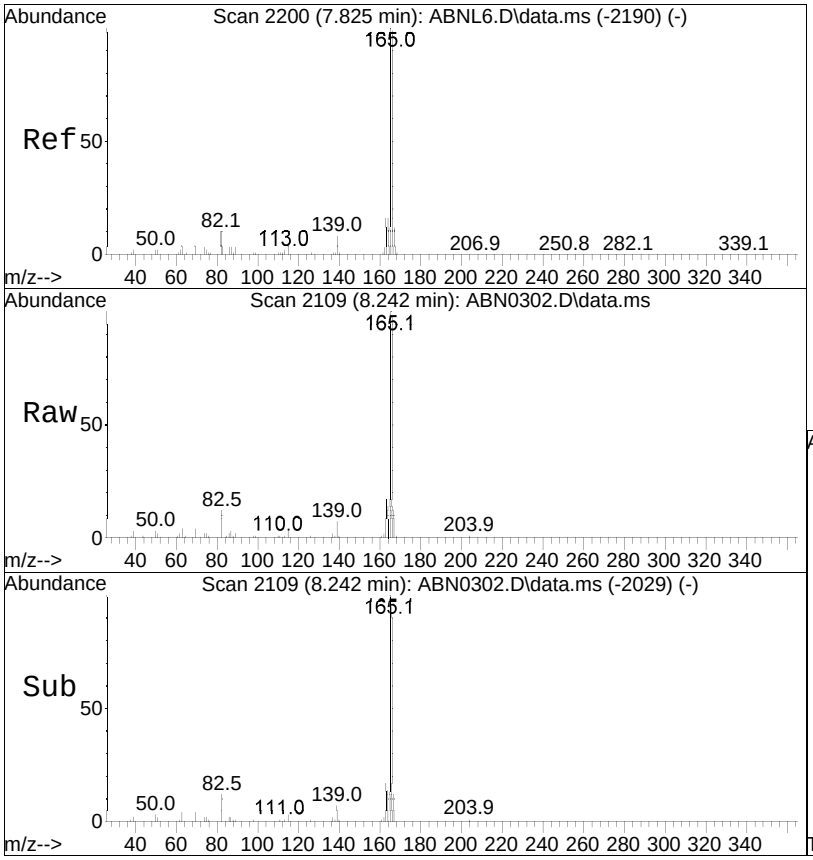


#70
Diethyl phthalate
Concen: 4.70 ug/ml
RT: 8.170 min Scan# 2086
Delta R.T. 0.000 min
Lab File: ABN0302.D
Acq: 2 Mar 2024 1:55 pm

Tgt Ion:149 Resp: 88797

Ion	Ratio	Lower	Upper
149	100		
177	20.9	16.1	24.1
150	11.1	9.4	14.2

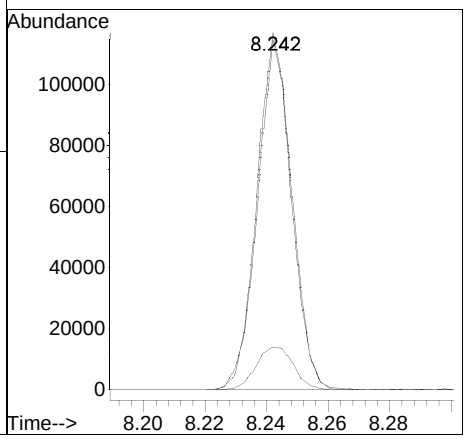


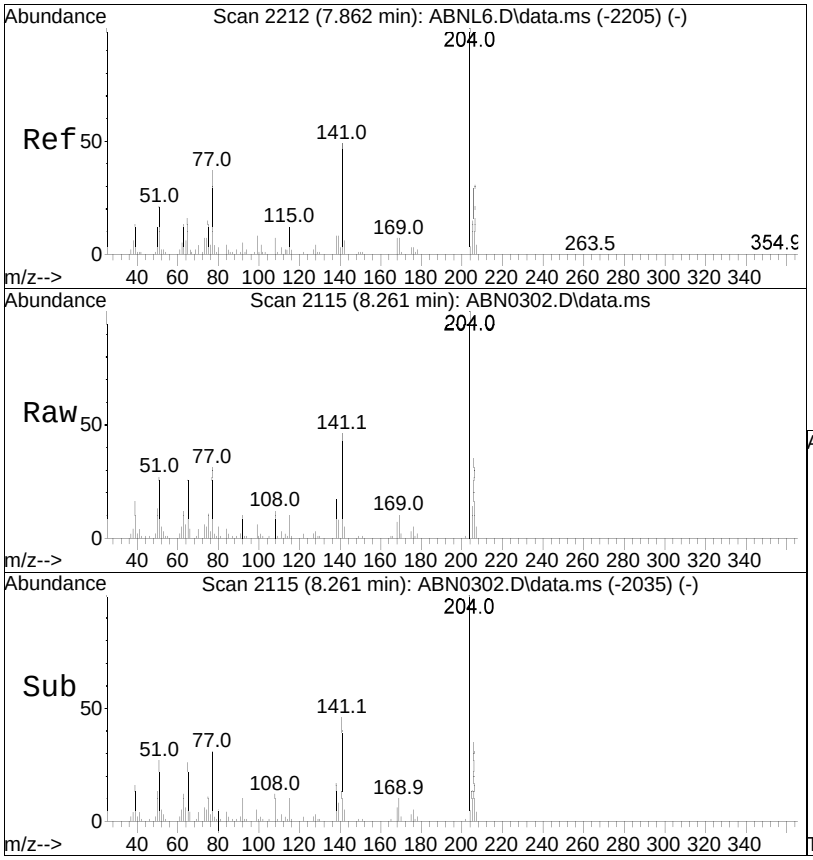


#71
Fluorene
Concen: 4.60 ug/ml
RT: 8.242 min Scan# 2109
Delta R.T. 0.000 min
Lab File: ABN0302.D
Acq: 2 Mar 2024 1:55 pm

Tgt Ion:166 Resp: 87631

Ion	Ratio	Lower	Upper
166	100		
165	104.5	76.2	114.2
167	13.6	10.6	15.8

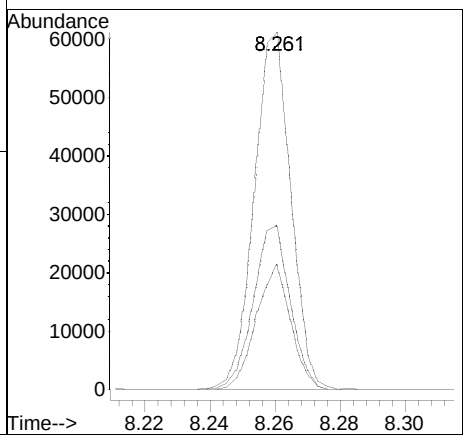


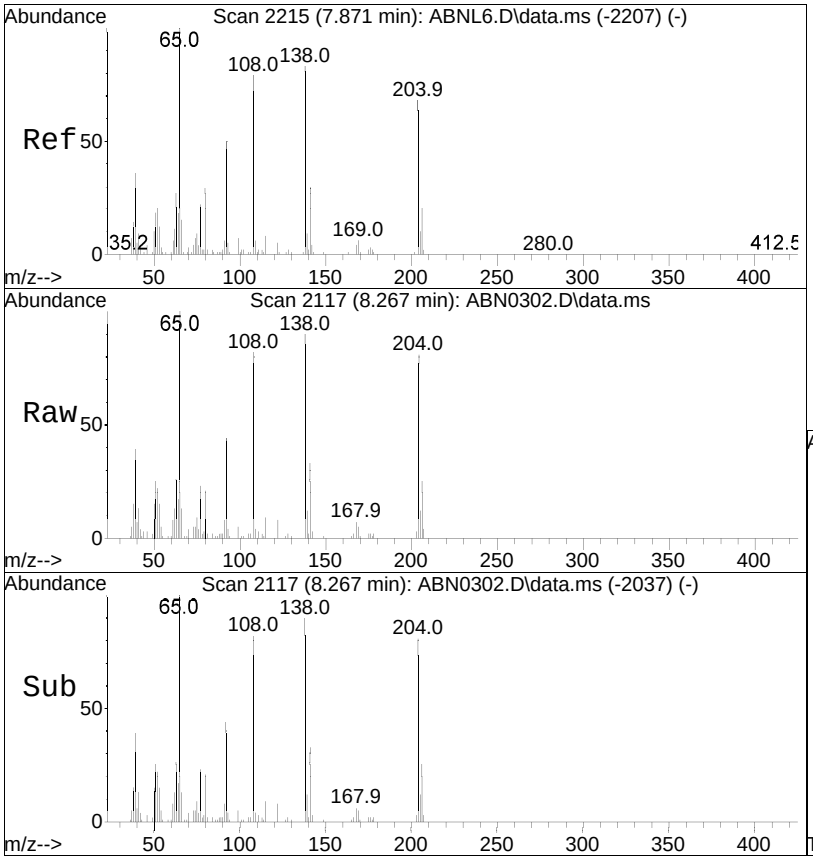


#72
4-Chlorophenyl phenyl ether
Concen: 4.72 ug/ml
RT: 8.261 min Scan# 2115
Delta R.T. 0.000 min
Lab File: ABN0302.D
Acq: 2 Mar 2024 1:55 pm

Tgt Ion:204 Resp: 47523

Ion	Ratio	Lower	Upper
204	100		
206	33.2	25.8	38.6
141	46.3	53.6	80.4#

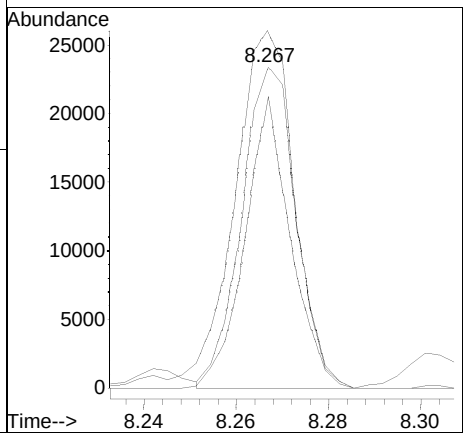


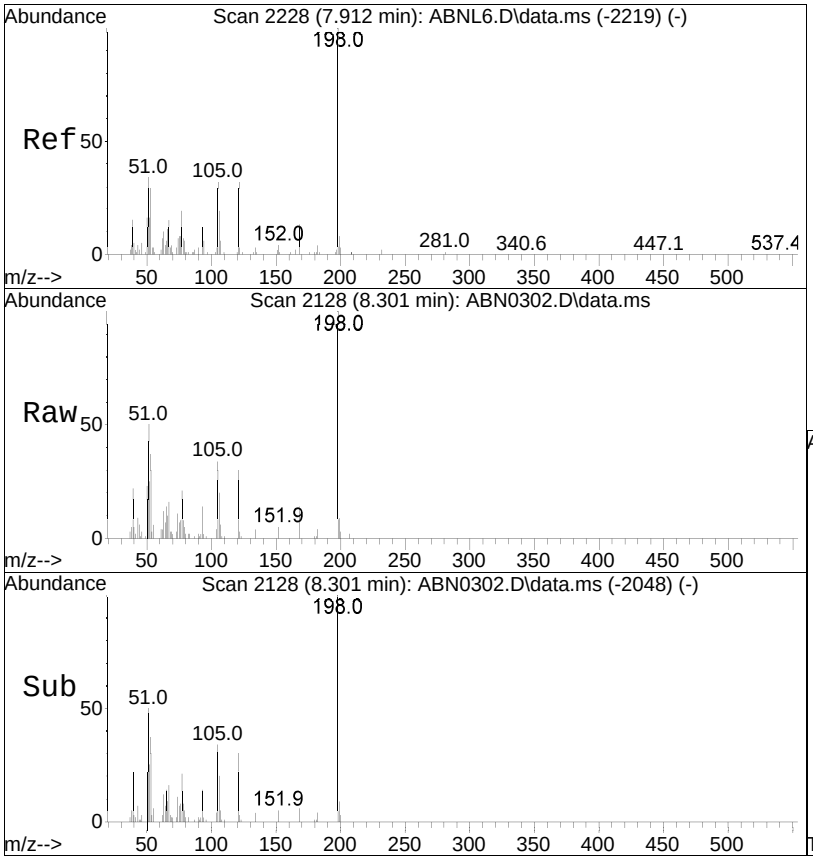


#73
4-Nitroaniline
Concen: 4.79 ug/ml
RT: 8.267 min Scan# 2117
Delta R.T. 0.000 min
Lab File: ABN0302.D
Acq: 2 Mar 2024 1:55 pm

Tgt Ion:138 Resp: 19105

Ion	Ratio	Lower	Upper
138	100		
108	76.1	52.1	78.1
65	124.6	115.0	172.6

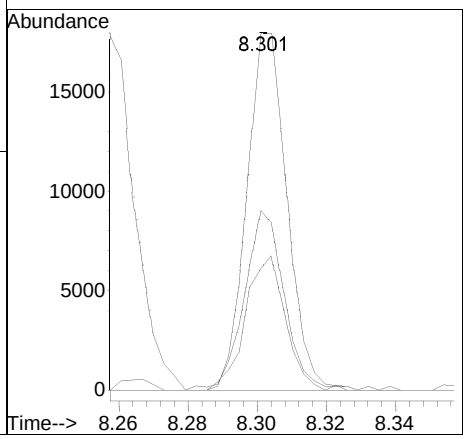


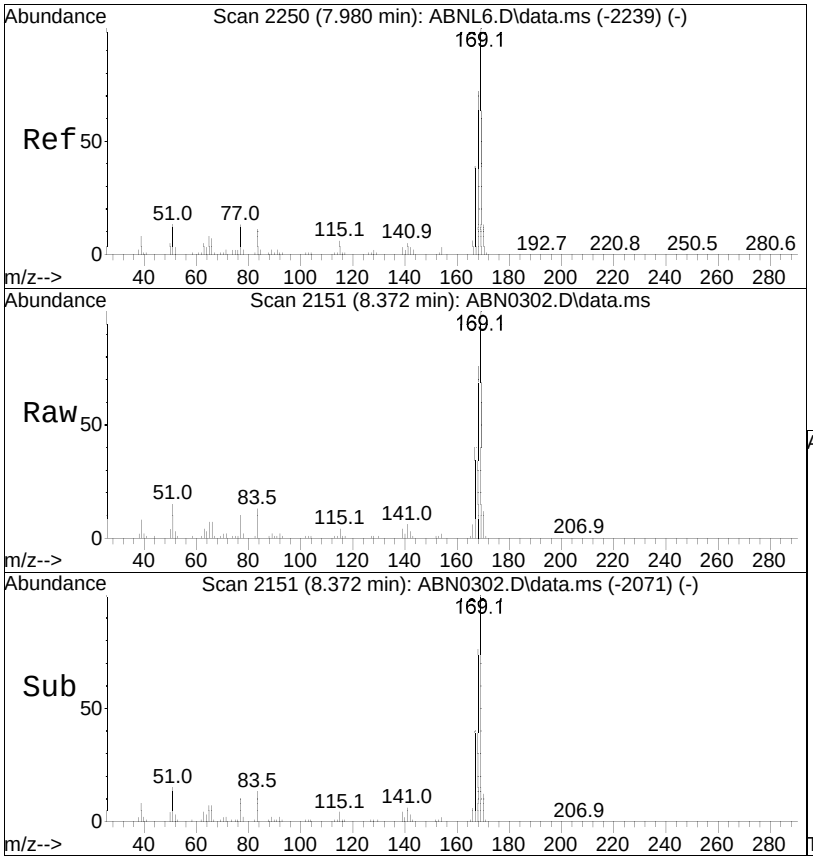


#74
4,6-Dinitro-o-cresol
Concen: 4.78 ug/ml
RT: 8.301 min Scan# 2128
Delta R.T. 0.000 min
Lab File: ABN0302.D
Acq: 2 Mar 2024 1:55 pm

Tgt Ion:198 Resp: 14499

Ion	Ratio	Lower	Upper
198	100		
51	49.2	76.0	114.0#
105	37.2	45.6	68.4#

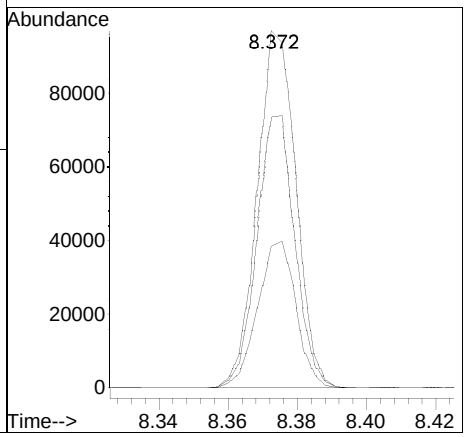


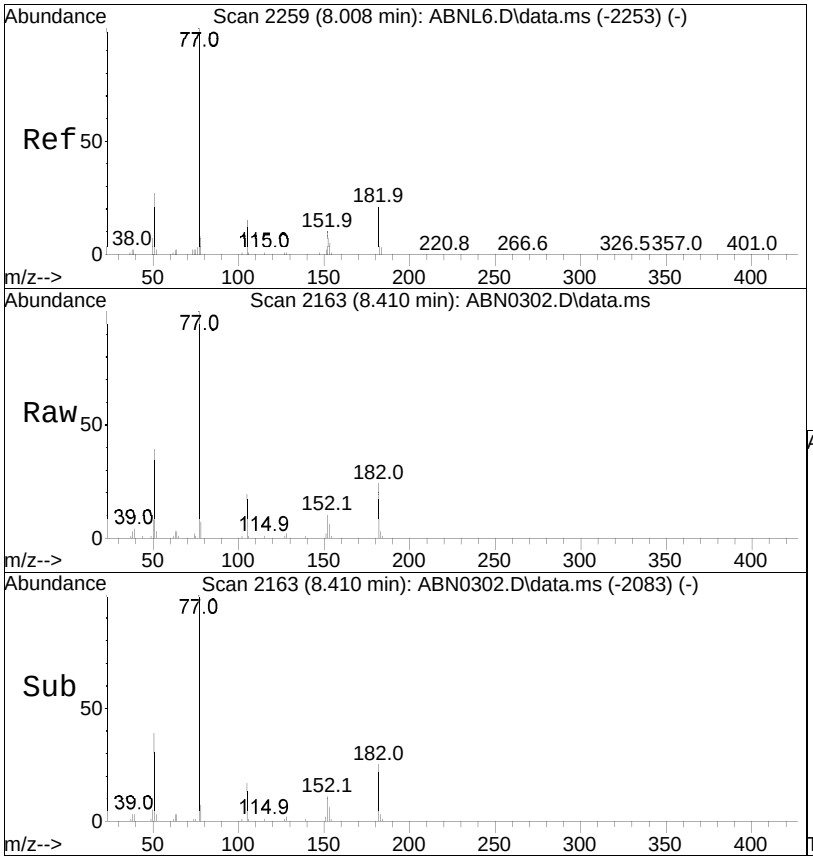


#75
NDPA/DPA
Concen: 4.77 ug/ml
RT: 8.372 min Scan# 2151
Delta R.T. 0.000 min
Lab File: ABN0302.D
Acq: 2 Mar 2024 1:55 pm

Tgt Ion:169 Resp: 75251

Ion	Ratio	Lower	Upper
169	100		
168	74.8	54.0	81.0
167	40.7	28.6	42.8

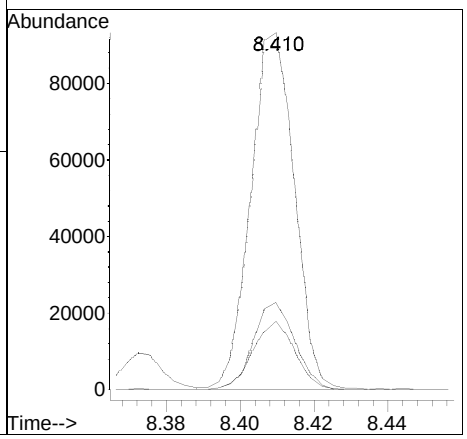


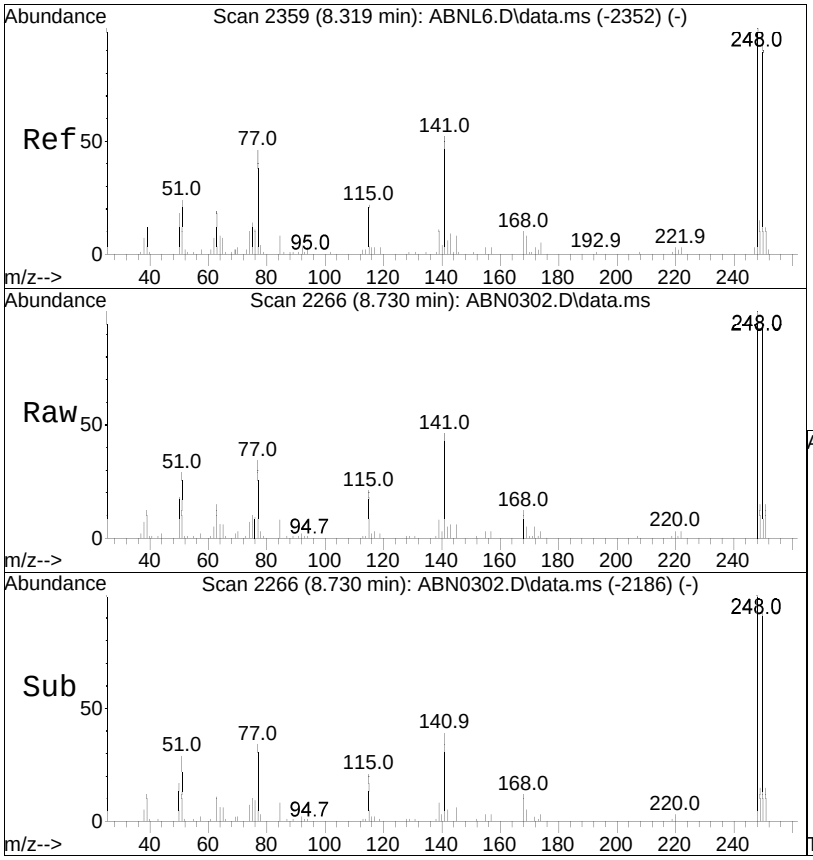


#76
Azobenzene
Concen: 4.53 ug/ml
RT: 8.410 min Scan# 2163
Delta R.T. 0.000 min
Lab File: ABN0302.D
Acq: 2 Mar 2024 1:55 pm

Tgt Ion: 77 Resp: 76007

Ion	Ratio	Lower	Upper
77	100		
182	23.4	17.4	26.2
105	18.6	15.4	23.2

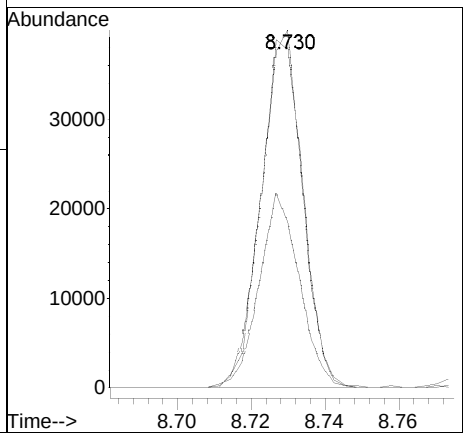


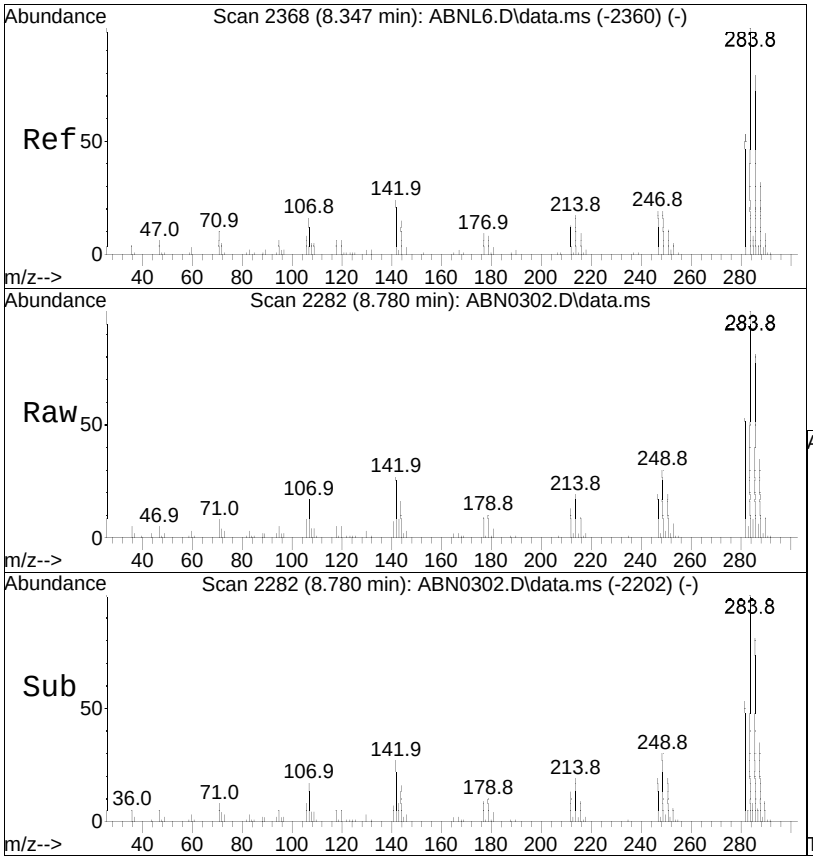


#78
4-Bromophenyl phenyl ether
Concen: 4.79 ug/ml
RT: 8.730 min Scan# 2266
Delta R.T. 0.000 min
Lab File: ABN0302.D
Acq: 2 Mar 2024 1:55 pm

Tgt Ion:248 Resp: 30773

Ion	Ratio	Lower	Upper
248	100		
141	53.5	76.6	114.8#
250	99.6	77.3	115.9

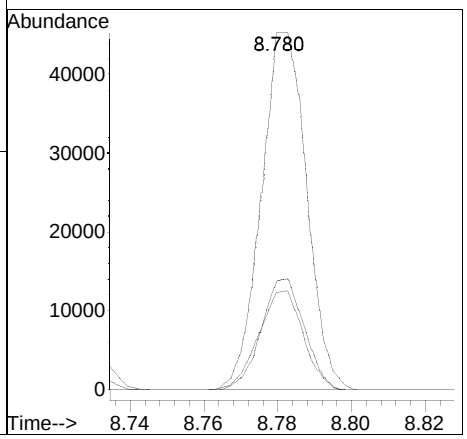


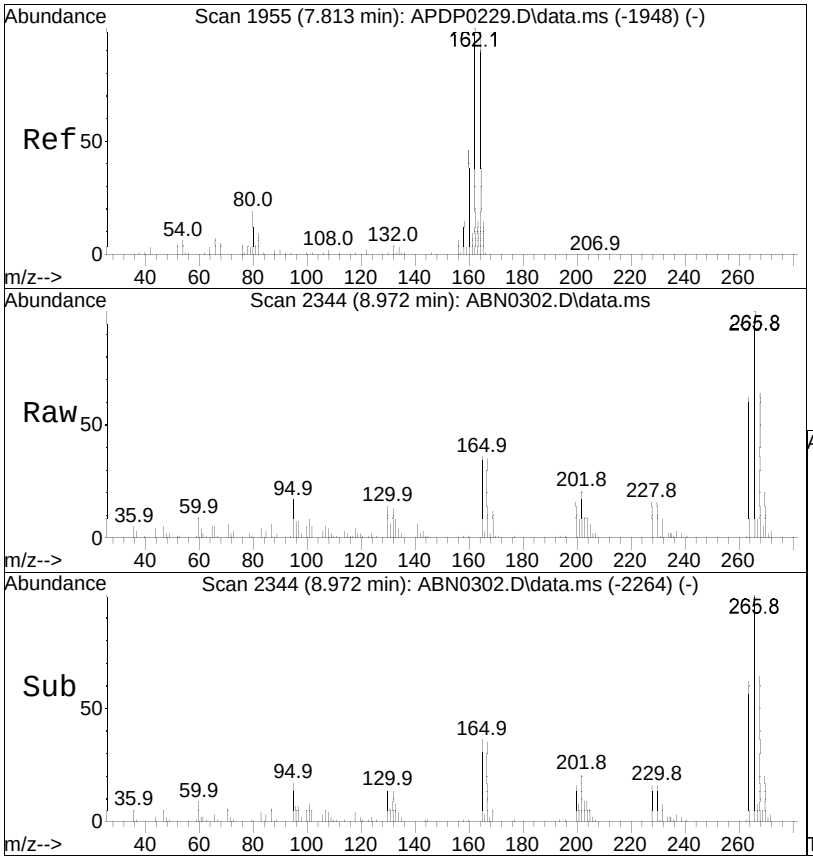


#79
Hexachlorobenzene
Concen: 4.90 ug/ml
RT: 8.780 min Scan# 2282
Delta R.T. 0.000 min
Lab File: ABN0302.D
Acq: 2 Mar 2024 1:55 pm

Tgt Ion:284 Resp: 38464

Ion	Ratio	Lower	Upper
284	100		
142	27.4	41.9	62.9#
249	29.6	24.1	36.1

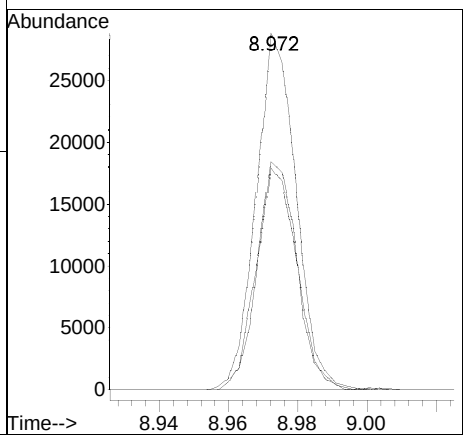


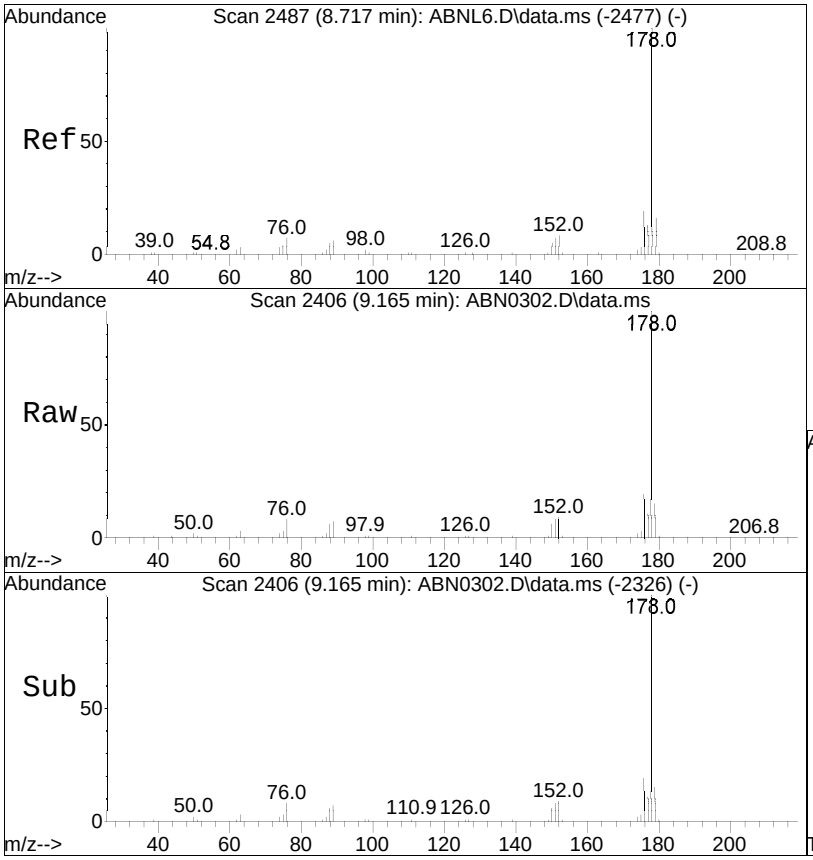


#80
Pentachlorophenol
Concen: 4.43 ug/ml
RT: 8.972 min Scan# 2344
Delta R.T. 0.000 min
Lab File: ABN0302.D
Acq: 2 Mar 2024 1:55 pm

Tgt Ion:266 Resp: 23131

Ion	Ratio	Lower	Upper
266	100		
264	63.9	49.7	74.5
268	63.7	50.5	75.7

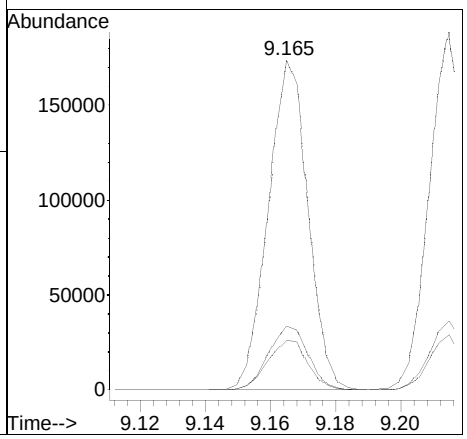


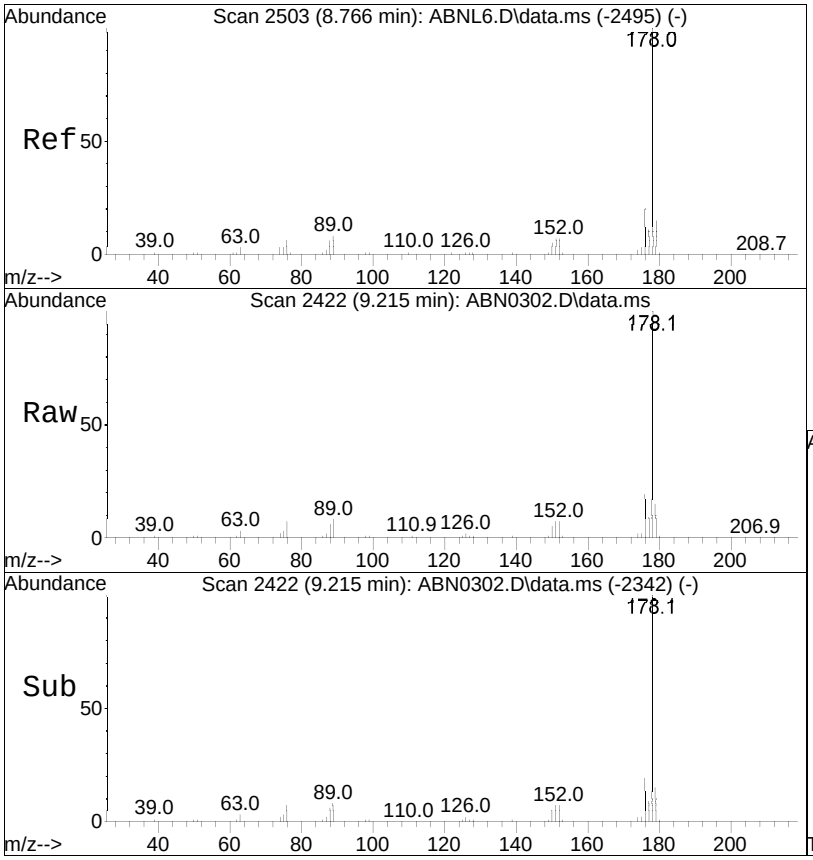


#86
Phenanthrene
Concen: 4.48 ug/ml
RT: 9.165 min Scan# 2406
Delta R.T. 0.000 min
Lab File: ABN0302.D
Acq: 2 Mar 2024 1:55 pm

Tgt Ion:178 Resp: 146898

Ion	Ratio	Lower	Upper
178	100		
179	15.2	12.2	18.2
176	19.3	15.4	23.2

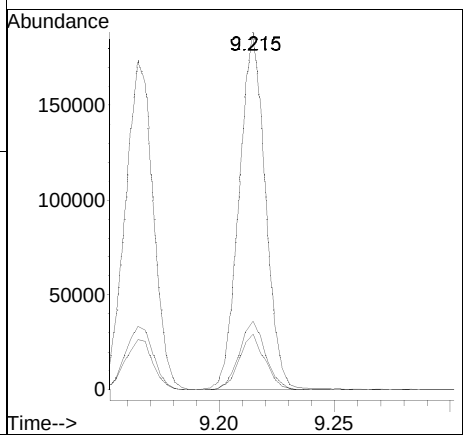


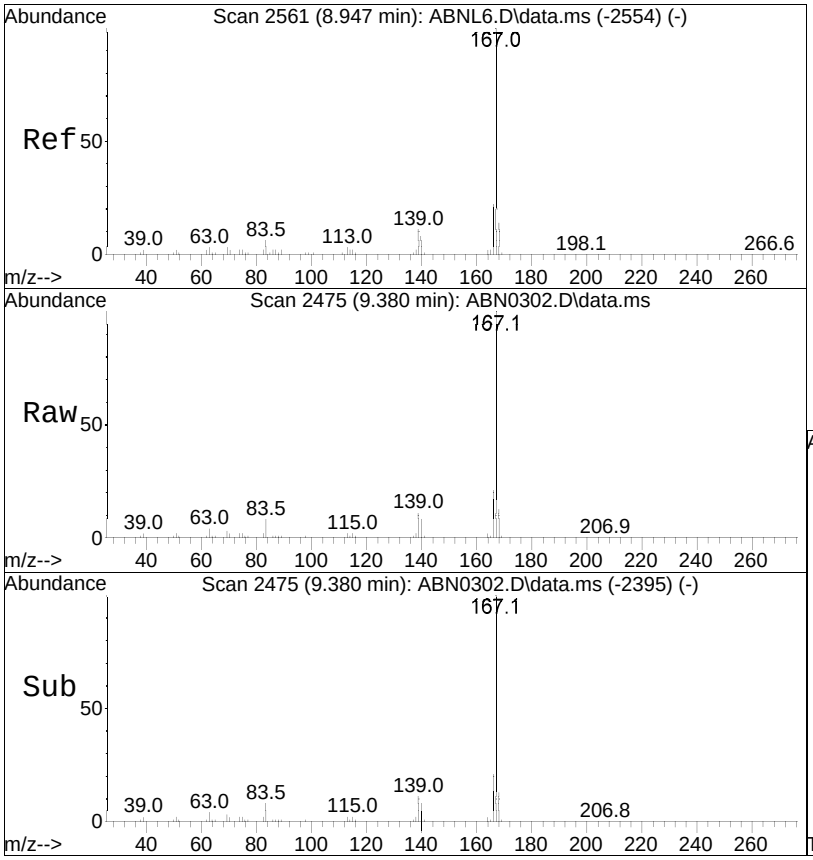


#87
Anthracene
Concen: 4.62 ug/ml
RT: 9.215 min Scan# 2422
Delta R.T. 0.000 min
Lab File: ABN0302.D
Acq: 2 Mar 2024 1:55 pm

Tgt Ion:178 Resp: 150063

Ion	Ratio	Lower	Upper
178	100		
179	15.1	12.0	18.0
176	18.9	14.6	22.0

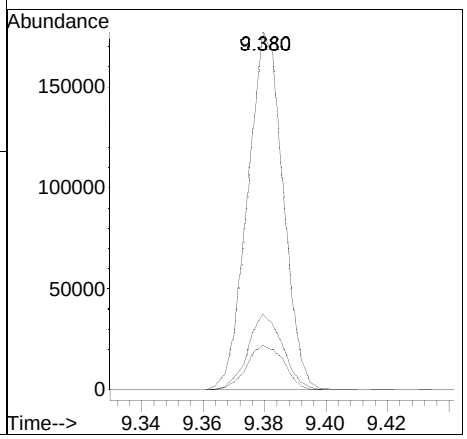


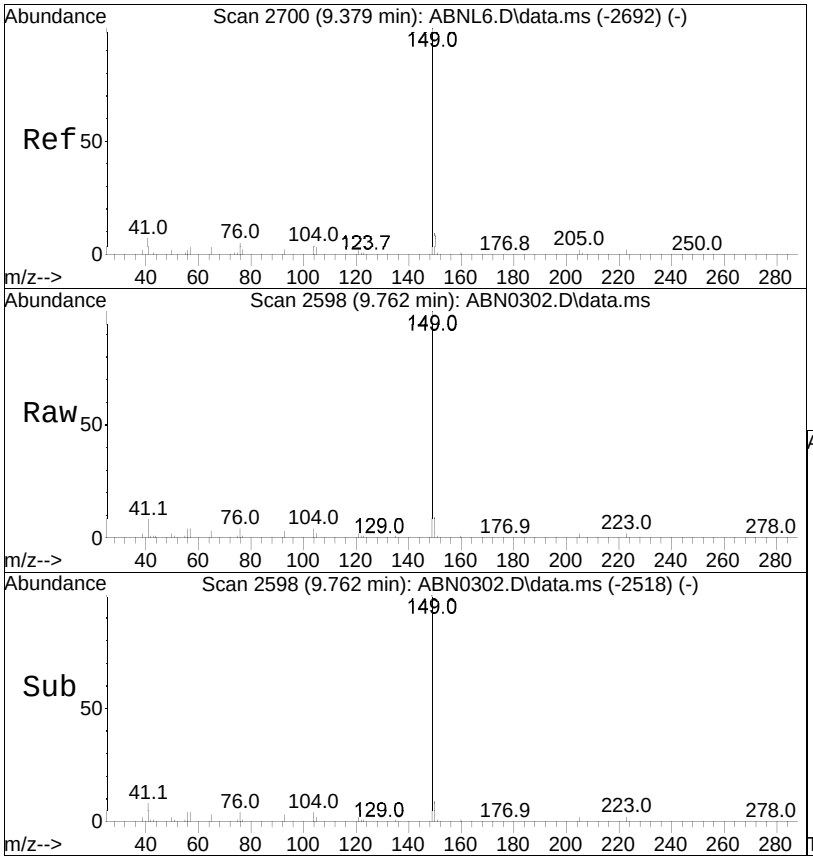


#88
Carbazole
Concen: 4.60 ug/ml
RT: 9.380 min Scan# 2475
Delta R.T. 0.000 min
Lab File: ABN0302.D
Acq: 2 Mar 2024 1:55 pm

Tgt Ion:167 Resp: 140862

Ion	Ratio	Lower	Upper
167	100		
168	13.2	10.6	15.8
166	20.9	17.4	26.0

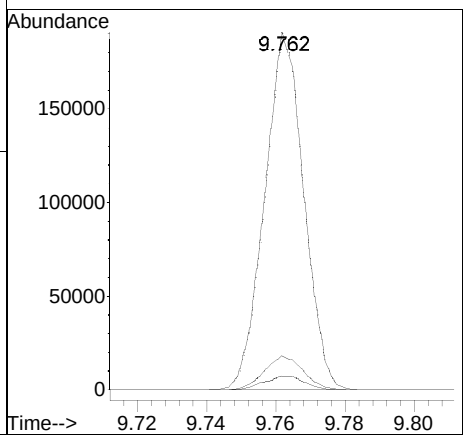


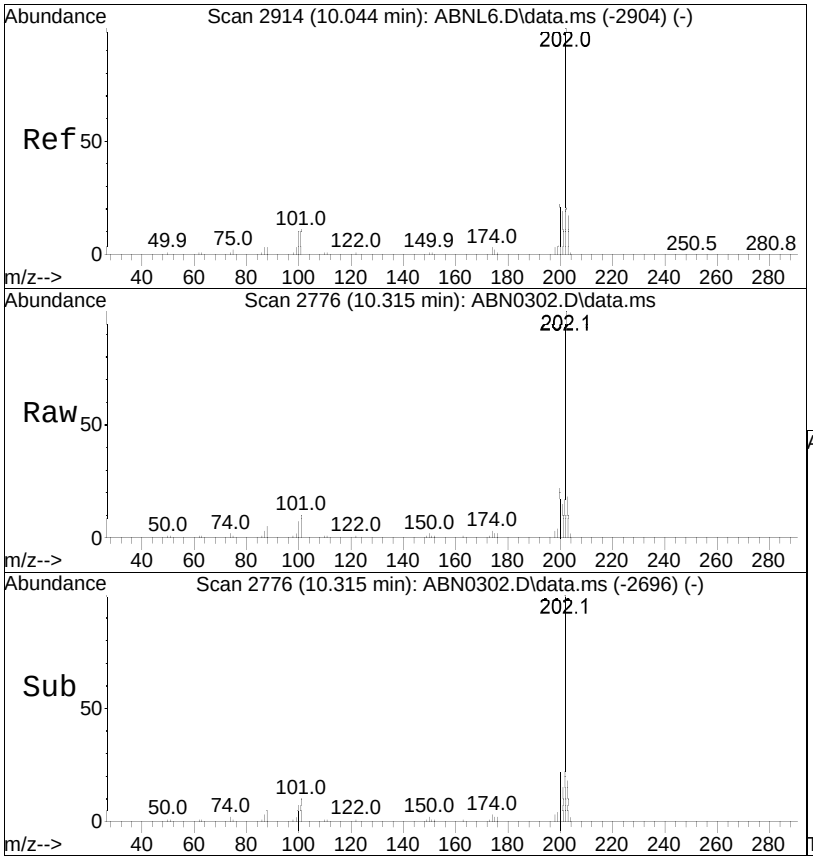


#89
Di-n-butylphthalate
Concen: 4.36 ug/ml
RT: 9.762 min Scan# 2598
Delta R.T. 0.000 min
Lab File: ABN0302.D
Acq: 2 Mar 2024 1:55 pm

Tgt Ion:149 Resp: 147888

Ion	Ratio	Lower	Upper
149	100		
150	9.5	7.0	10.6
104	4.0	4.5	6.7#

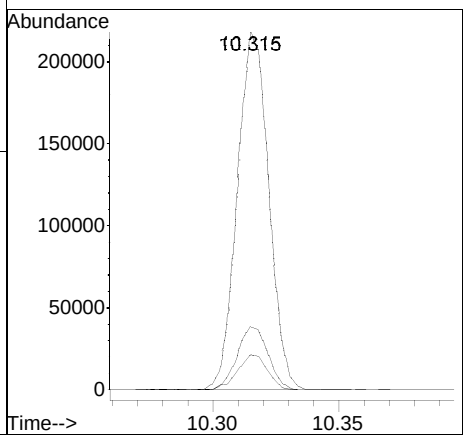


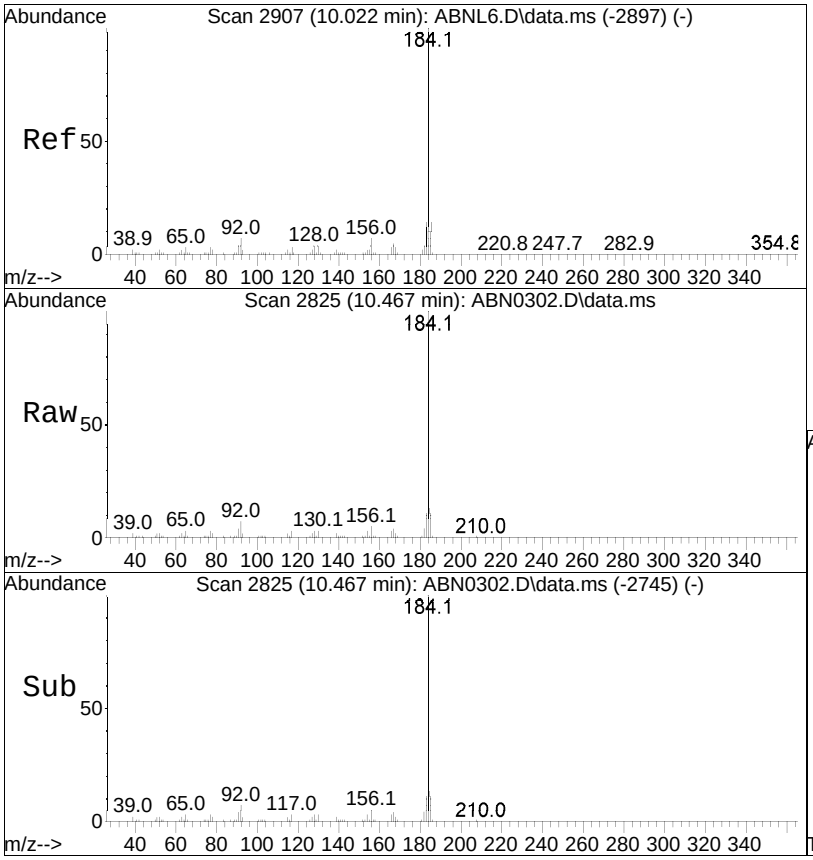


#90
Fluoranthene
Concen: 4.61 ug/ml
RT: 10.315 min Scan# 2776
Delta R.T. 0.000 min
Lab File: ABN0302.D
Acq: 2 Mar 2024 1:55 pm

Tgt Ion:202 Resp: 187862

Ion	Ratio	Lower	Upper
202	100		
101	9.4	13.5	20.3#
203	17.4	13.6	20.4

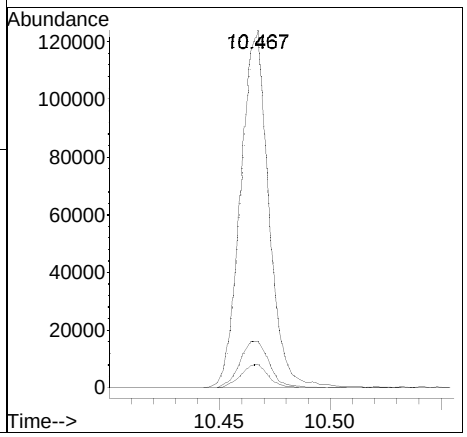


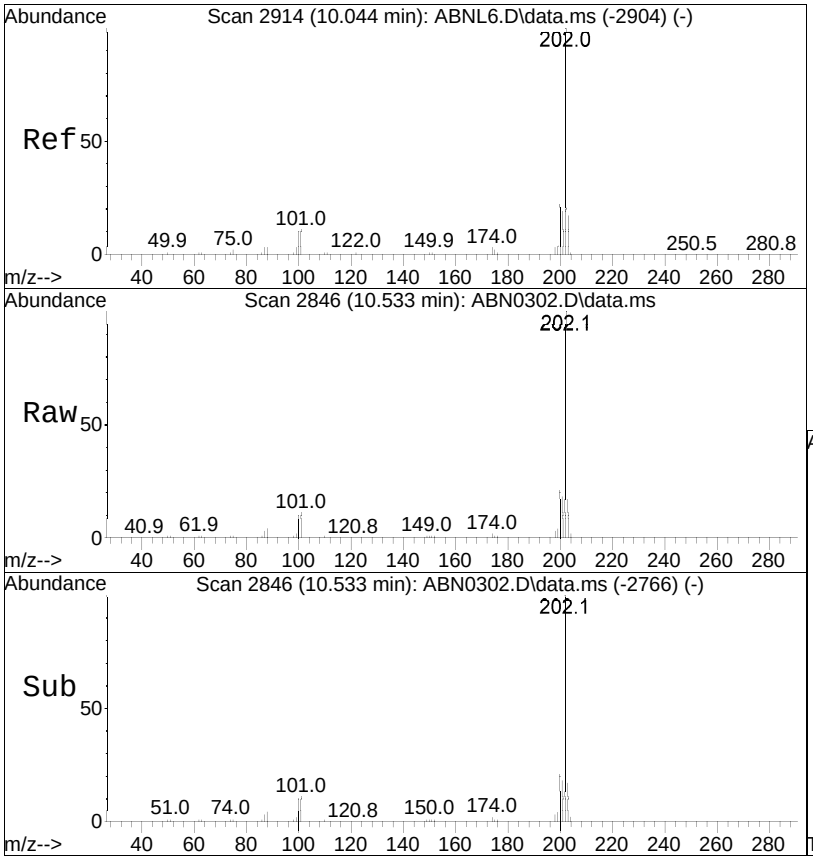


#91
Benzidine
Concen: 4.51 ug/ml
RT: 10.467 min Scan# 2825
Delta R.T. 0.000 min
Lab File: ABN0302.D
Acq: 2 Mar 2024 1:55 pm

Tgt Ion:184 Resp: 108322

Ion	Ratio	Lower	Upper
184	100		
92	6.4	9.1	13.7#
185	13.7	11.1	16.7

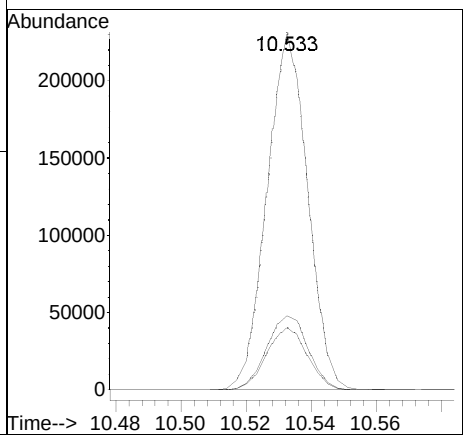


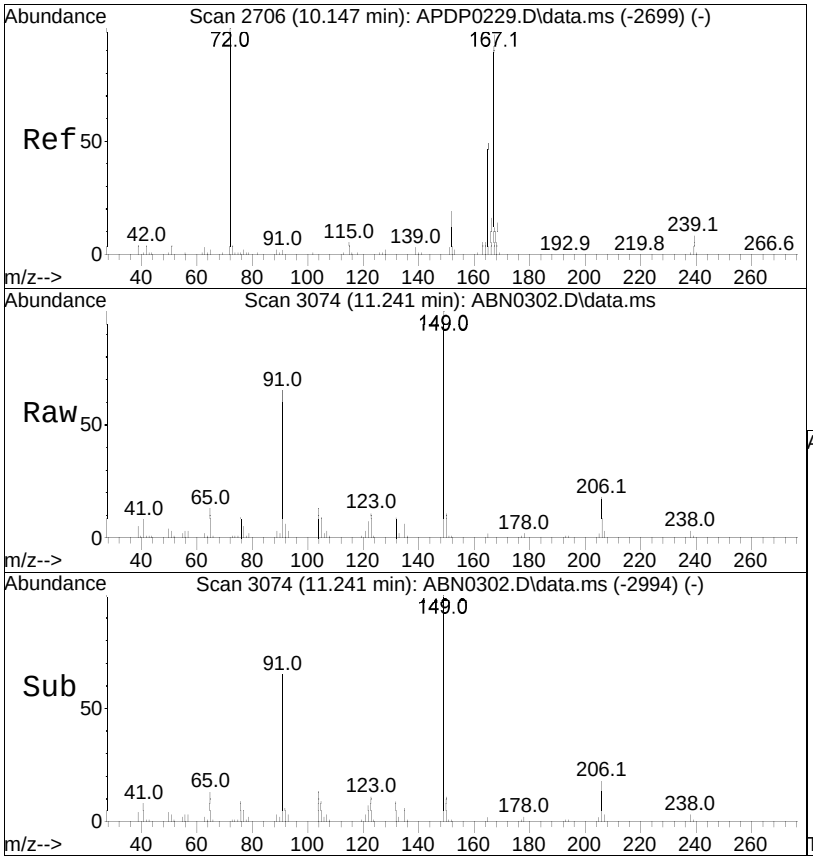


#92
Pyrene
Concen: 4.61 ug/ml
RT: 10.533 min Scan# 2846
Delta R.T. 0.000 min
Lab File: ABN0302.D
Acq: 2 Mar 2024 1:55 pm

Tgt Ion:202 Resp: 197845

Ion	Ratio	Lower	Upper
202	100		
200	21.4	16.7	25.1
203	17.7	14.2	21.4

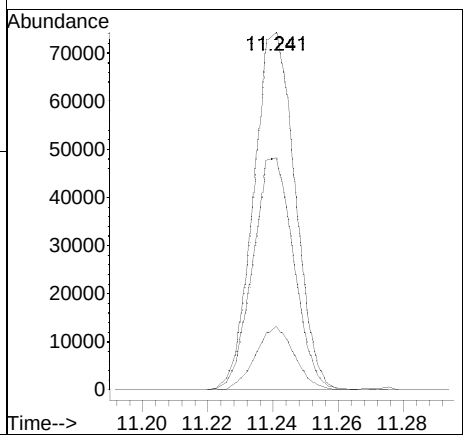


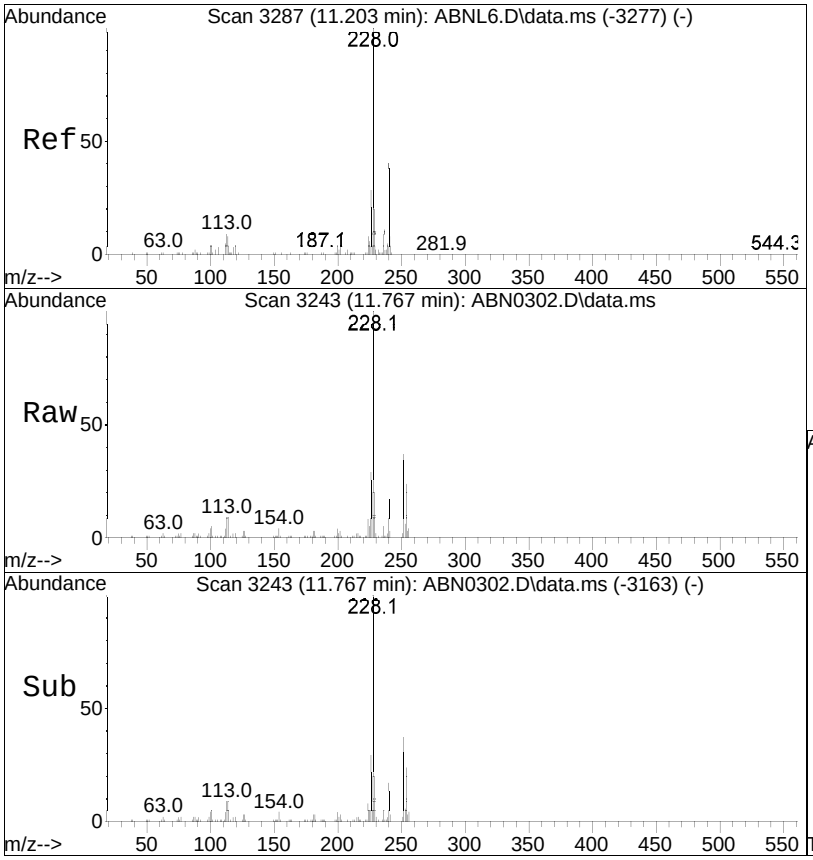


#94
Butyl benzyl phthalate
Concen: 4.12 ug/ml
RT: 11.241 min Scan# 3074
Delta R.T. 0.000 min
Lab File: ABN0302.D
Acq: 2 Mar 2024 1:55 pm

Tgt Ion:149 Resp: 65122

Ion	Ratio	Lower	Upper
149	100		
91	64.4	63.3	94.9
206	16.7	13.9	20.9

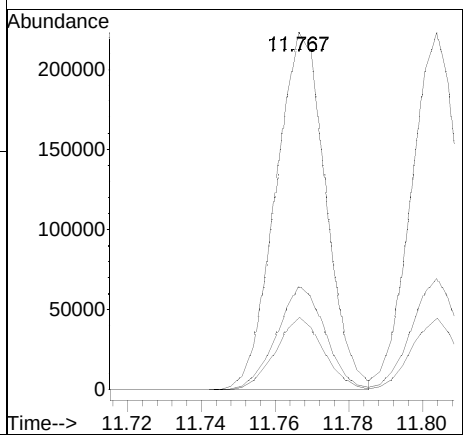


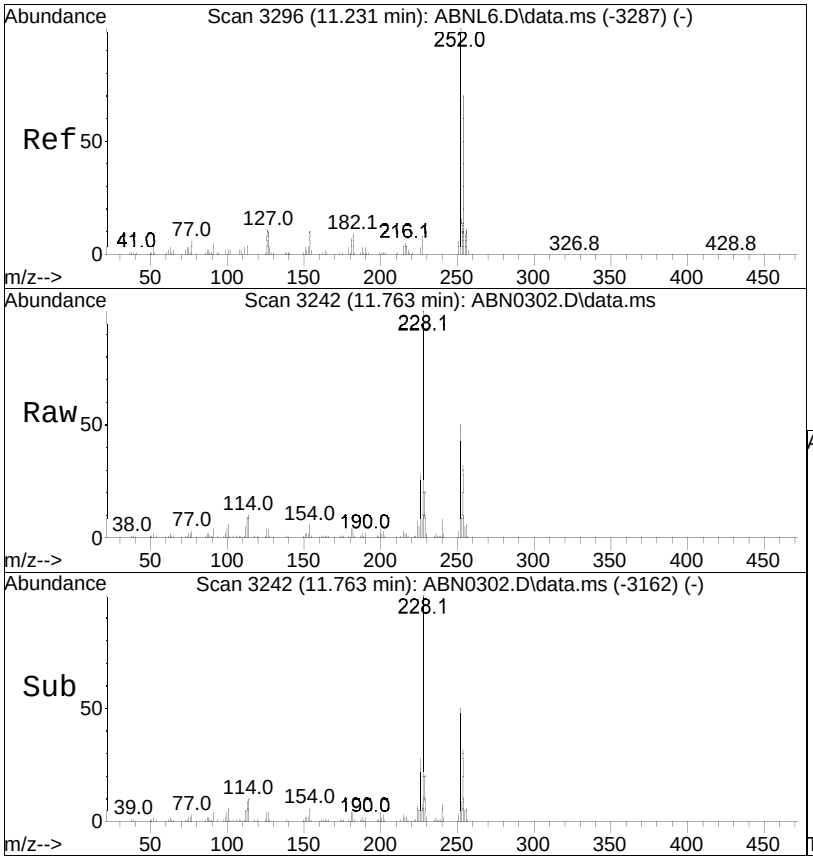


#101
Benzo(a)anthracene
Concen: 4.48 ug/ml M3
RT: 11.767 min Scan# 3243
Delta R.T. 0.000 min
Lab File: ABN0302.D
Acq: 2 Mar 2024 1:55 pm

Tgt Ion:228 Resp: 210148

Ion	Ratio	Lower	Upper
228	100		
226	28.1	22.2	33.4
229	19.4	15.6	23.4

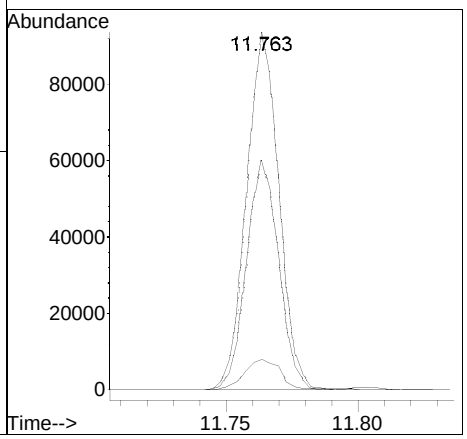


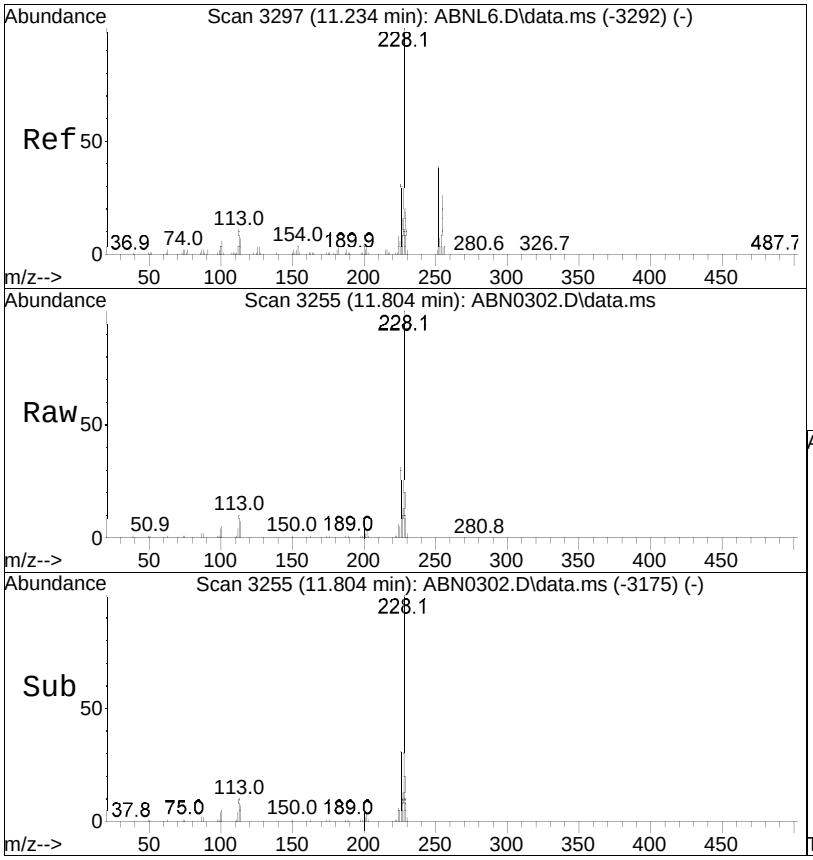


#102
3,3'-Dichlorobenzidine
Concen: 4.51 ug/ml
RT: 11.763 min Scan# 3242
Delta R.T. 0.000 min
Lab File: ABN0302.D
Acq: 2 Mar 2024 1:55 pm

Tgt Ion:252 Resp: 79485

Ion	Ratio	Lower	Upper
252	100		
126	9.7	14.5	21.7#
254	63.9	51.2	76.8

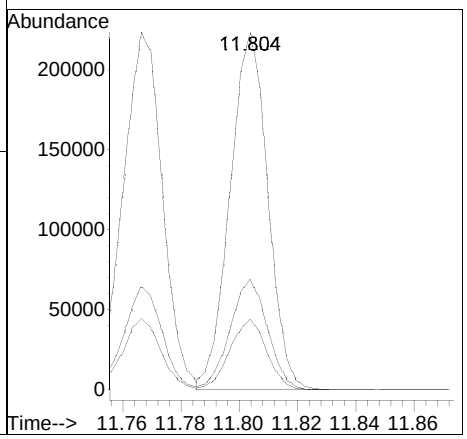


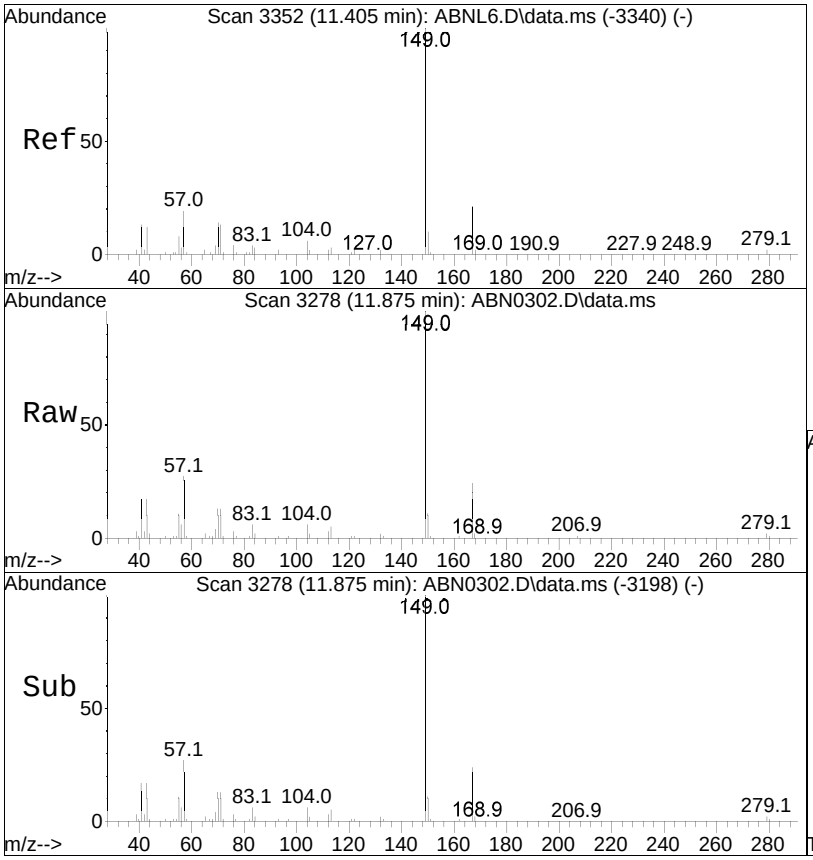


#103
Chrysene
Concen: 4.39 ug/ml
RT: 11.804 min Scan# 3255
Delta R.T. 0.000 min
Lab File: ABN0302.D
Acq: 2 Mar 2024 1:55 pm

Tgt Ion:228 Resp: 200731

Ion	Ratio	Lower	Upper
228	100		
226	30.8	24.0	36.0
229	19.3	15.8	23.8

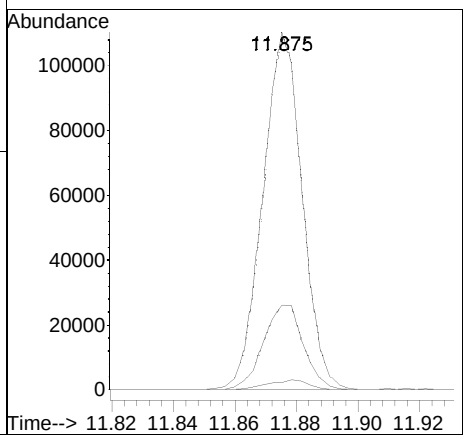


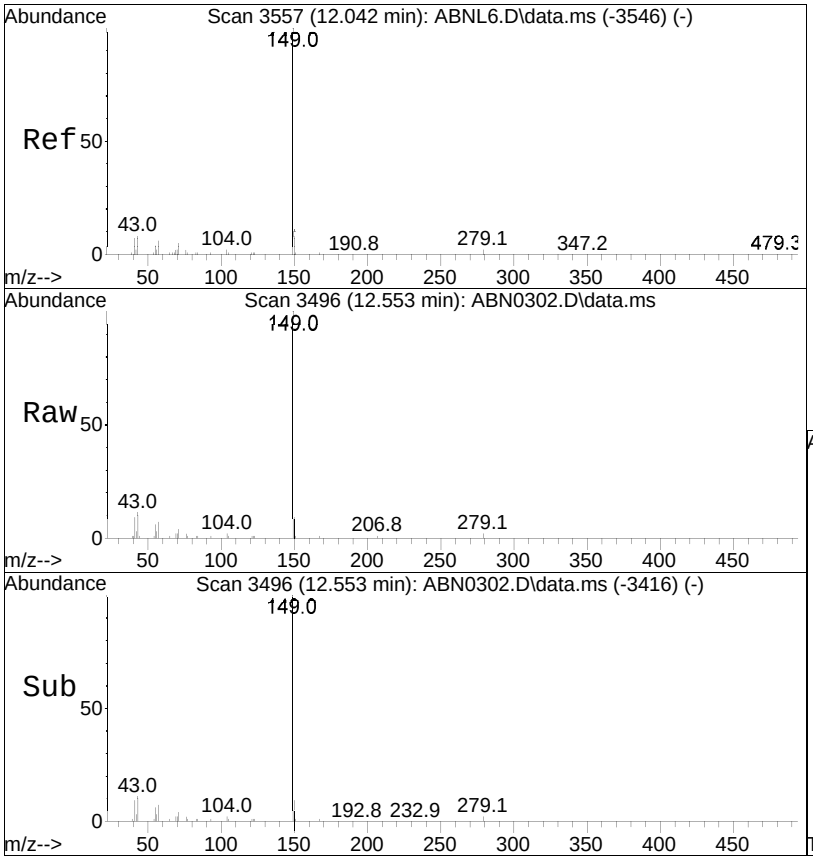


#104
Bis(2-ethylhexyl)phthalate
Concen: 3.80 ug/ml
RT: 11.875 min Scan# 3278
Delta R.T. 0.000 min
Lab File: ABN0302.D
Acq: 2 Mar 2024 1:55 pm

Tgt Ion:149 Resp: 97053

Ion	Ratio	Lower	Upper
149	100		
167	24.2	22.1	33.1
279	2.5	3.0	4.4#

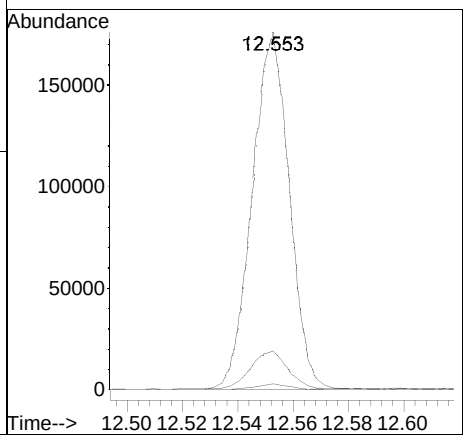


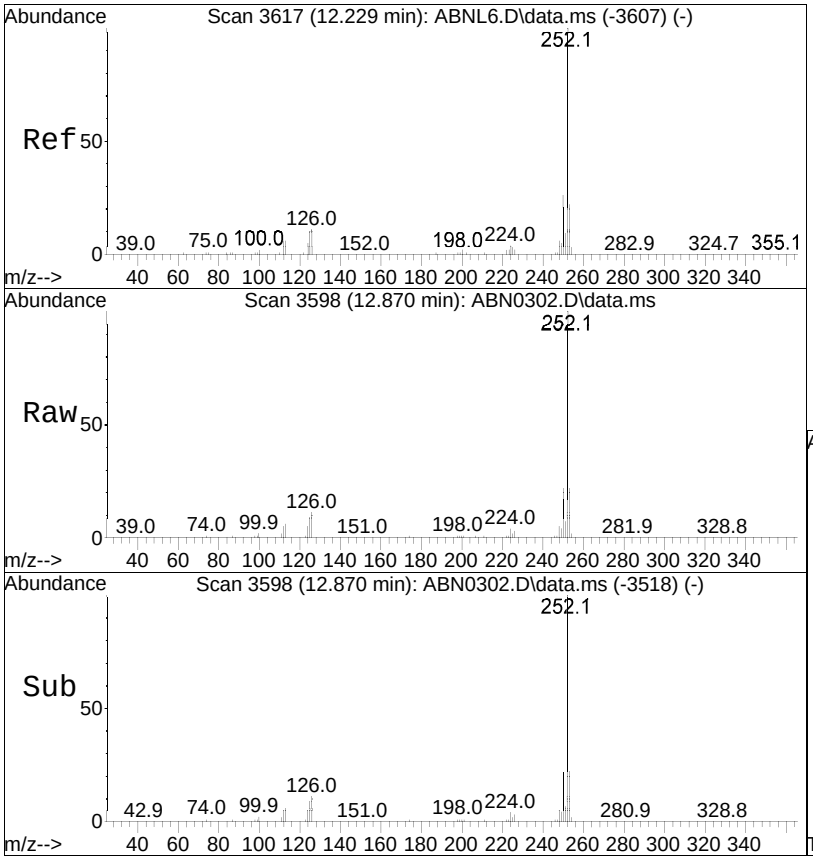


#105
Di-n-octylphthalate
Concen: 3.83 ug/ml
RT: 12.553 min Scan# 3496
Delta R.T. 0.000 min
Lab File: ABN0302.D
Acq: 2 Mar 2024 1:55 pm

Tgt Ion:149 Resp: 162005

Ion	Ratio	Lower	Upper
149	100		
43	11.4	18.8	28.2#
167	1.2	1.3	1.9#

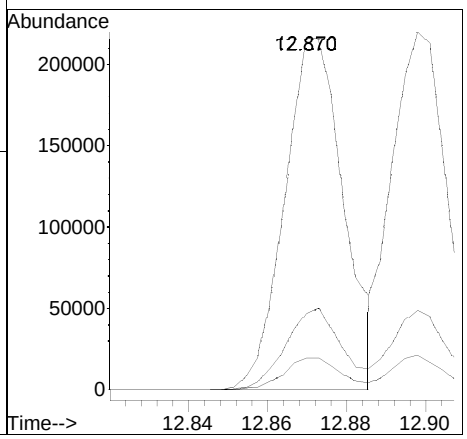


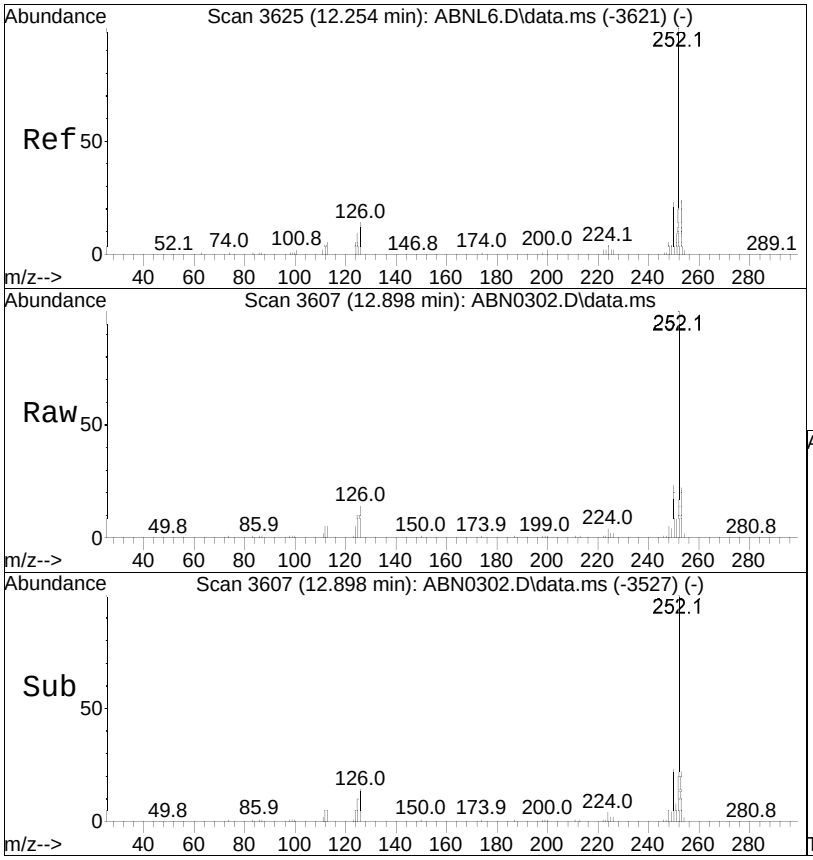


#106
Benzo(b)fluoranthene
Concen: 4.63 ug/ml M3
RT: 12.870 min Scan# 3598
Delta R.T. 0.000 min
Lab File: ABN0302.D
Acq: 2 Mar 2024 1:55 pm

Tgt Ion:252 Resp: 224278

Ion	Ratio	Lower	Upper
252	100		
125	8.9	13.3	19.9#
253	22.3	17.1	25.7

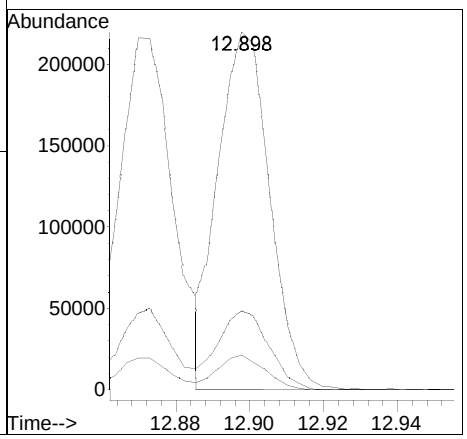


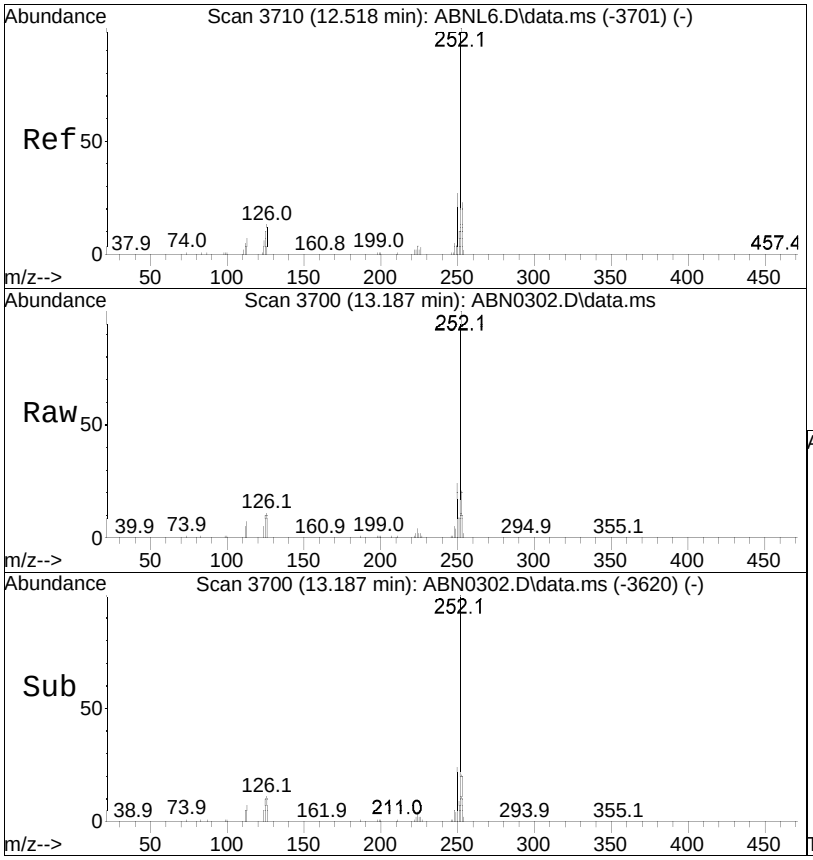


#107
Benzo(k)fluoranthene
Concen: 4.46 ug/ml
RT: 12.898 min Scan# 3607
Delta R.T. 0.000 min
Lab File: ABN0302.D
Acq: 2 Mar 2024 1:55 pm

Tgt Ion:252 Resp: 212828

Ion	Ratio	Lower	Upper
252	100		
125	9.0	13.0	19.6#
253	22.0	16.8	25.2

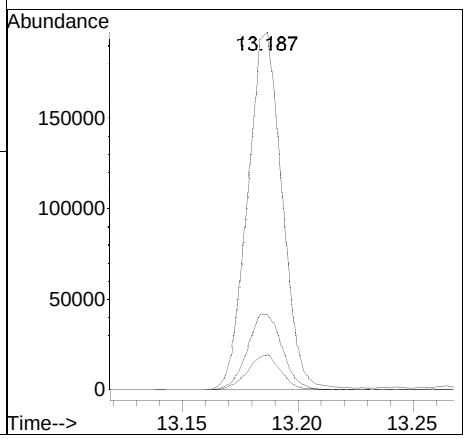


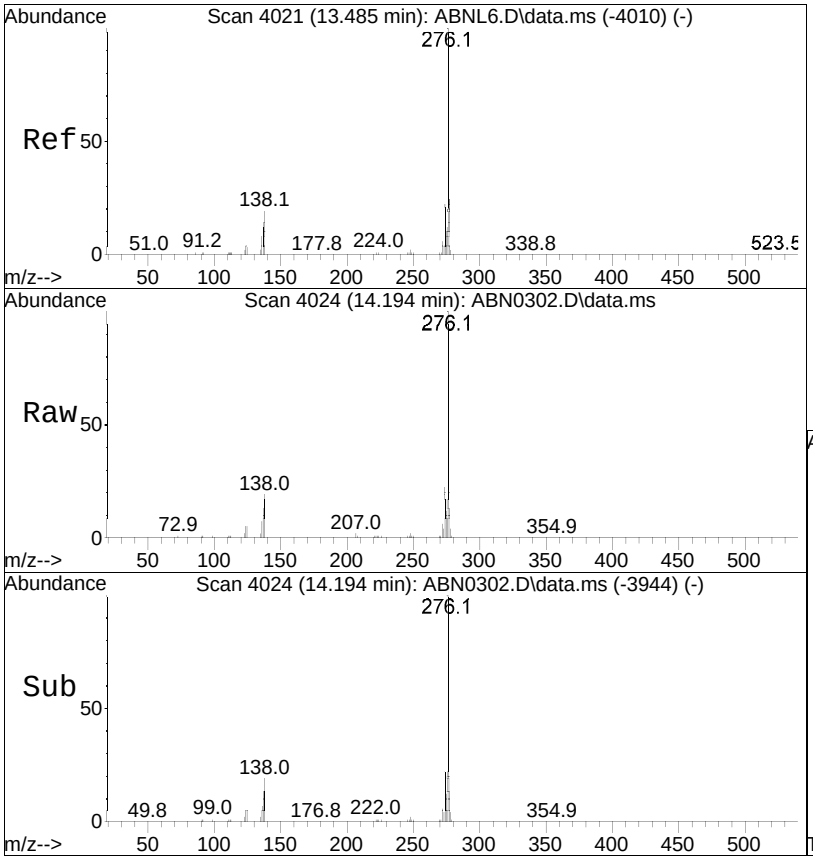


#108
Benzo(a)pyrene
Concen: 4.57 ug/ml
RT: 13.187 min Scan# 3700
Delta R.T. 0.000 min
Lab File: ABN0302.D
Acq: 2 Mar 2024 1:55 pm

Tgt Ion:252 Resp: 204080

Ion	Ratio	Lower	Upper
252	100		
125	9.5	14.2	21.2#
253	21.5	16.9	25.3

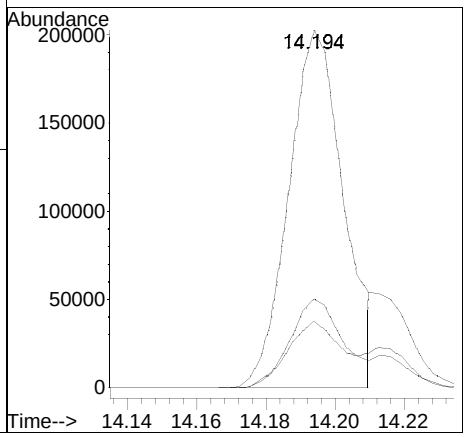


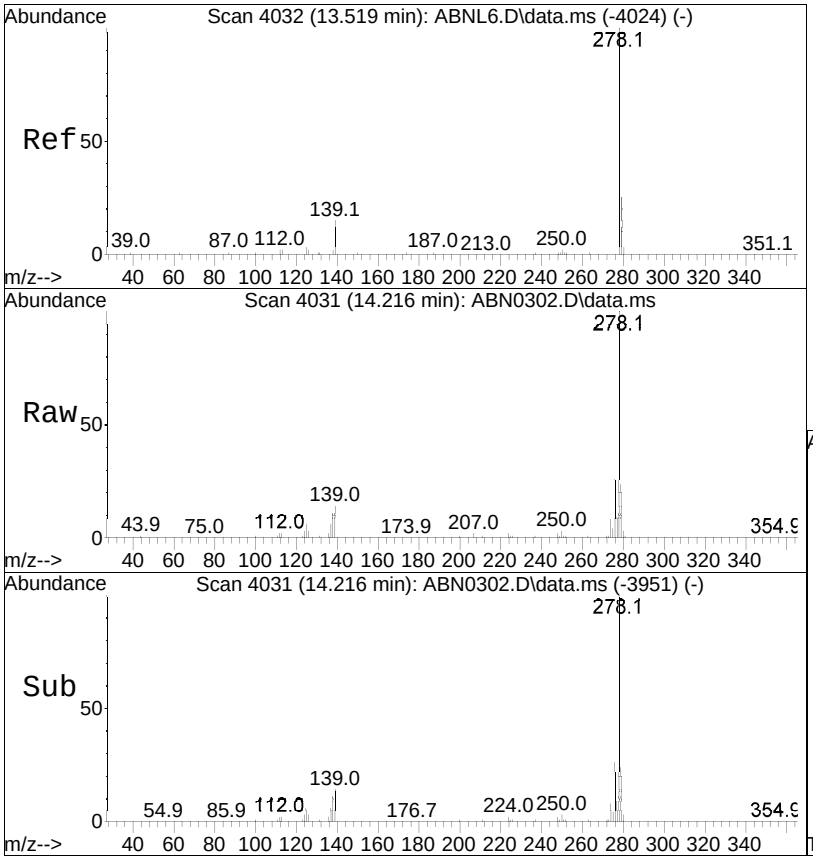


#110
Indeno(1,2,3-cd)pyrene
Concen: 4.42 ug/mL M3
RT: 14.194 min Scan# 4024
Delta R.T. 0.000 min
Lab File: ABN0302.D
Acq: 2 Mar 2024 1:55 pm

Tgt Ion:276 Resp: 222365

Ion	Ratio	Lower	Upper
276	100		
138	18.6	25.1	37.7#
277	24.6	18.6	28.0

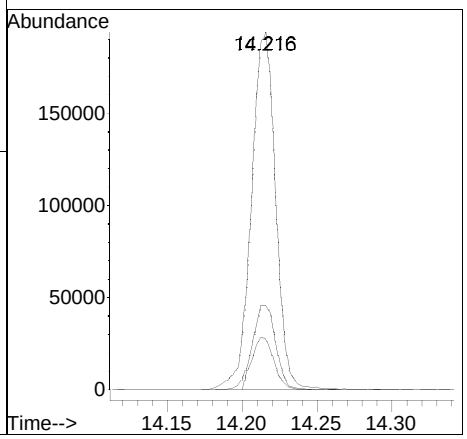


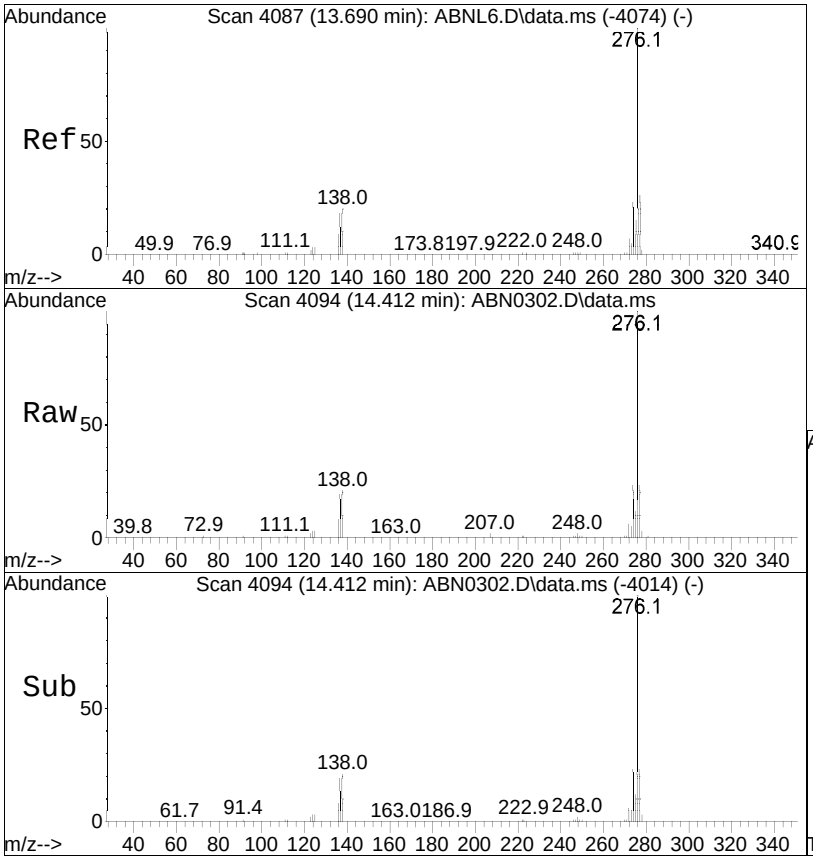


#111
Dibenzo(a,h)anthracene
Concen: 4.61 ug/ml
RT: 14.216 min Scan# 4031
Delta R.T. 0.000 min
Lab File: ABN0302.D
Acq: 2 Mar 2024 1:55 pm

Tgt Ion:278 Resp: 216665

Ion	Ratio	Lower	Upper
278	100		
139	13.5	20.8	31.2#
279	23.2	18.3	27.5

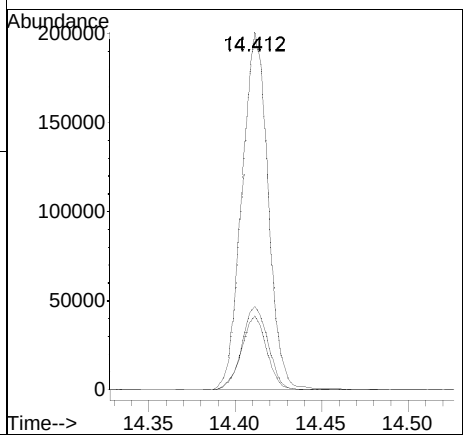




#112
Benzo(ghi)perylene
Concen: 4.42 ug/ml
RT: 14.412 min Scan# 4094
Delta R.T. 0.000 min
Lab File: ABN0302.D
Acq: 2 Mar 2024 1:55 pm

Tgt Ion:276 Resp: 209228

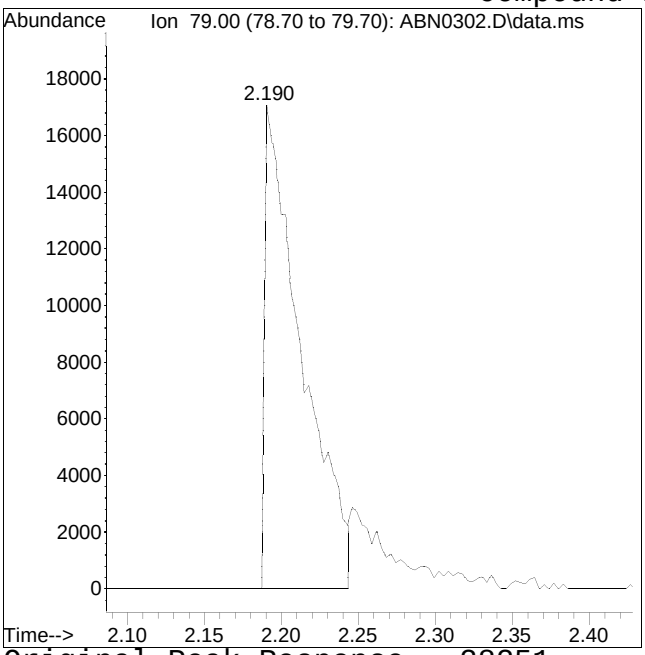
Ion	Ratio	Lower	Upper
276	100		
138	20.2	29.2	43.8#
277	23.3	18.8	28.2



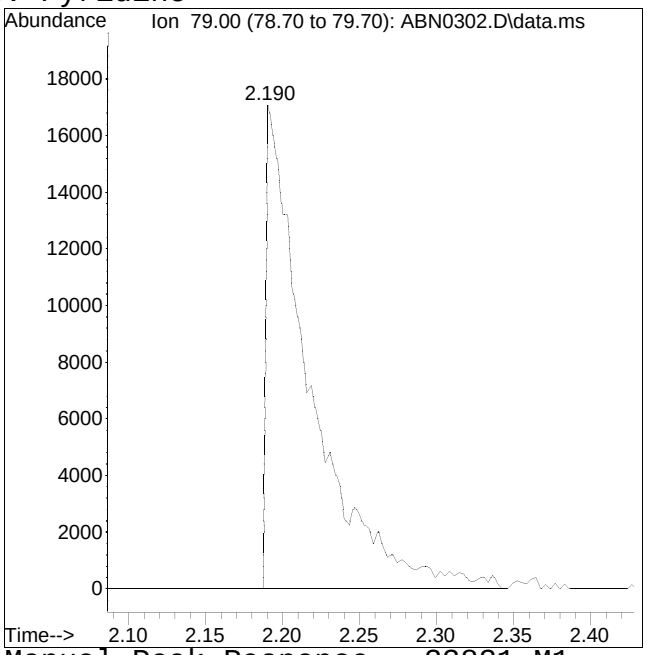
Manual Integration Report

Data Path : I:\8270\Dakota\240302lvi\ QMethod : FS240228LVIDakota.m
Data File : ABN0302.D Operator : Dakota:cmm
Date Inj'd : 3/2/2024 1:55 pm Instrument : Dakota
Sample : WG1891492-3,32,,ABN LVI CCQuant Date : 3/2/2024 3:16 pm

Compound #3: Pyridine



Original Peak Response = 28251



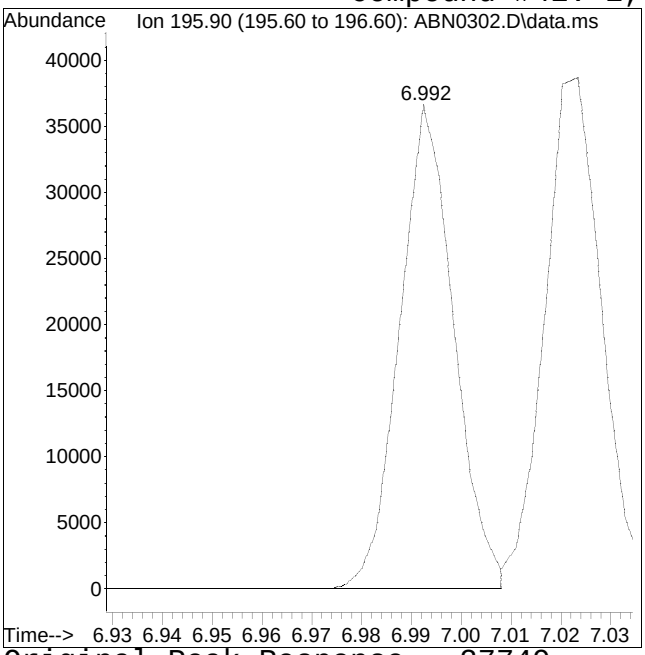
Manual Peak Response = 33831 M1

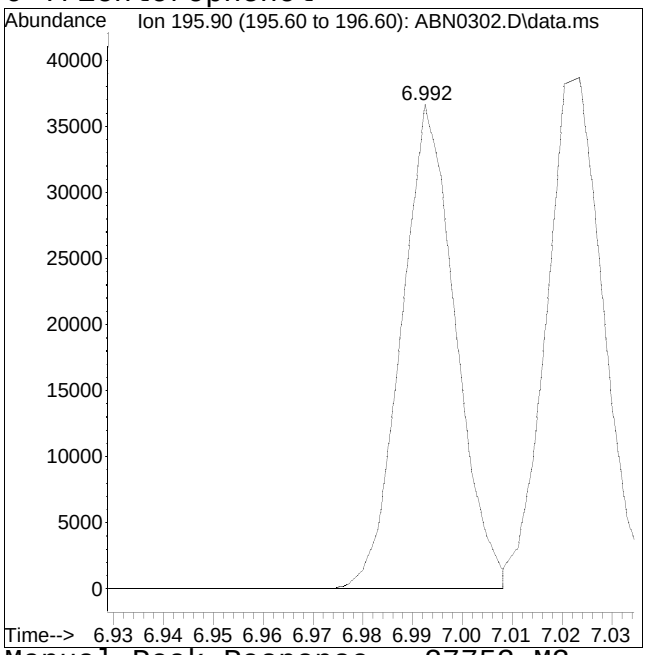
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

Data Path : I:\8270\Dakota\240302lvi\ QMethod : FS240228LVIDakota.m
Data File : ABN0302.D Operator : Dakota:cmm
Date Inj'd : 3/2/2024 1:55 pm Instrument : Dakota
Sample : WG1891492-3,32,,ABN LVI CCQuant Date : 3/2/2024 3:16 pm

Compound #42: 2,4,6-Trichlorophenol





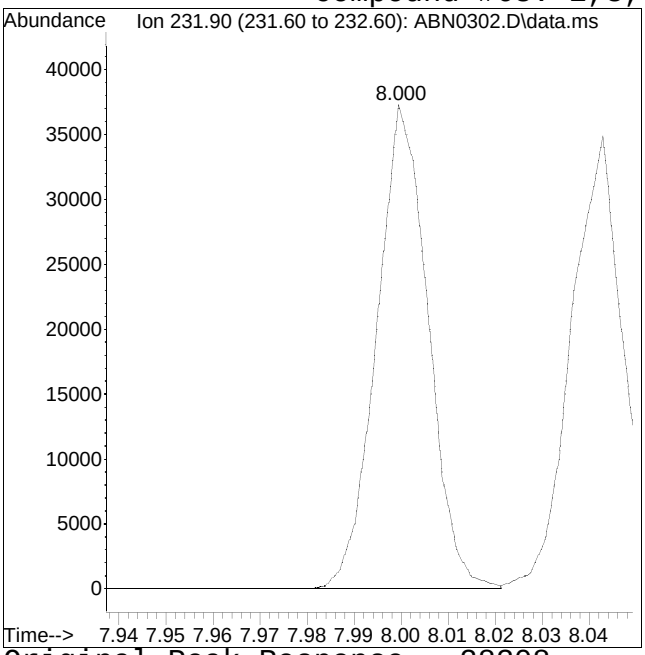
Original Peak Response = 27749 Manual Peak Response = 27753 M3

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

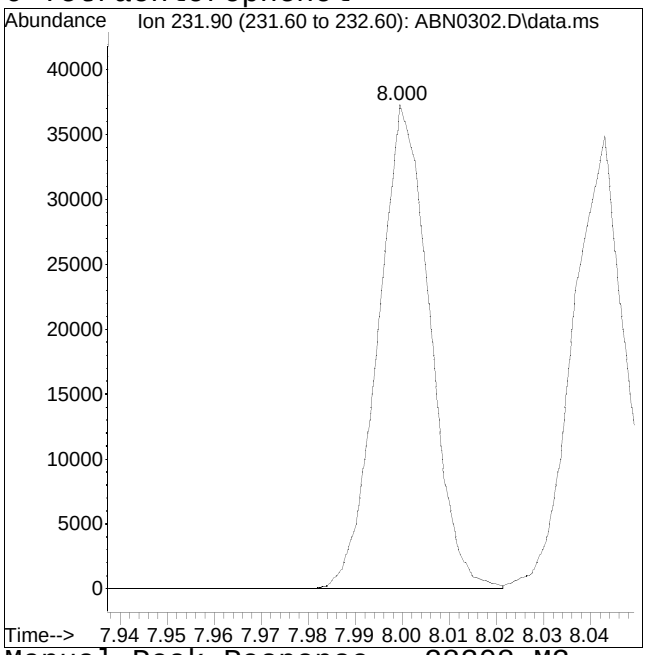
Manual Integration Report

Data Path : I:\8270\Dakota\240302lvi\ QMethod : FS240228LVIDakota.m
Data File : ABN0302.D Operator : Dakota:cmm
Date Inj'd : 3/2/2024 1:55 pm Instrument : Dakota
Sample : WG1891492-3,32,,ABN LVI CCQuant Date : 3/2/2024 3:16 pm

Compound #68: 2,3,5,6-Tetrachlorophenol



Original Peak Response = 28308



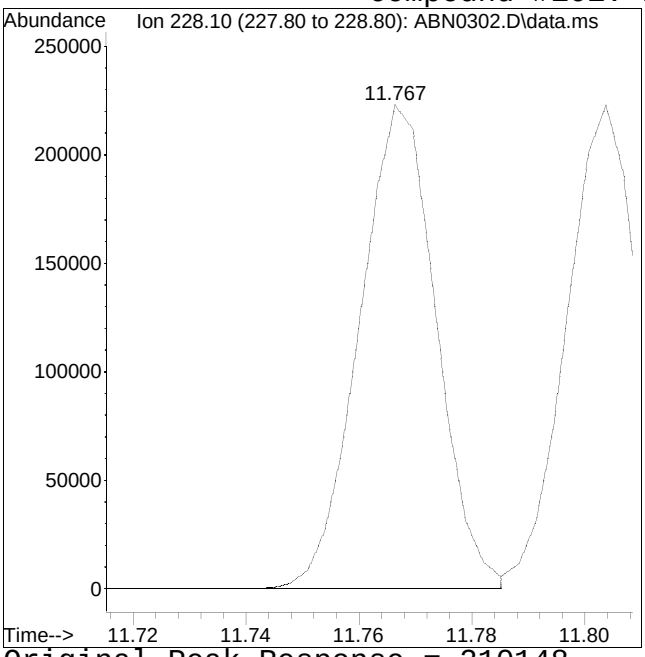
Manual Peak Response = 28308 M3

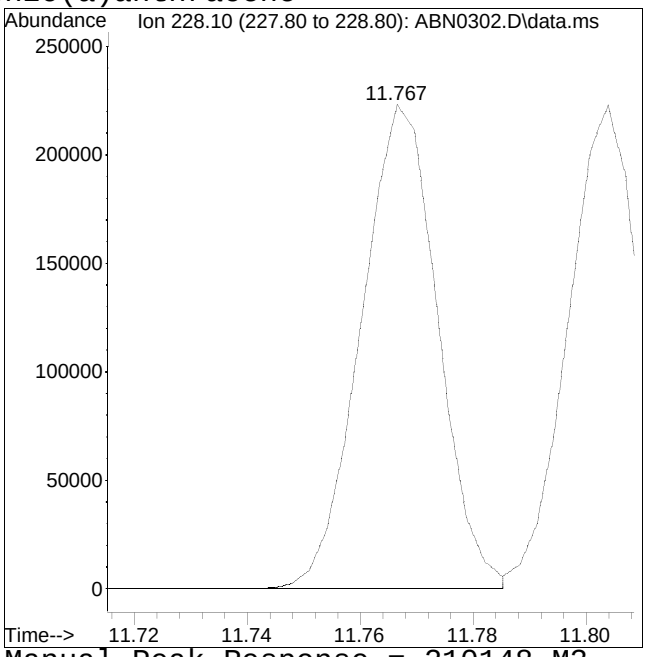
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\8270\Dakota\240302lvi\ QMethod : FS240228LVIDakota.m
Data File : ABN0302.D Operator : Dakota:cmm
Date Inj'd : 3/2/2024 1:55 pm Instrument : Dakota
Sample : WG1891492-3,32,,ABN LVI CCQuant Date : 3/2/2024 3:16 pm

Compound #101: Benzo(a)anthracene





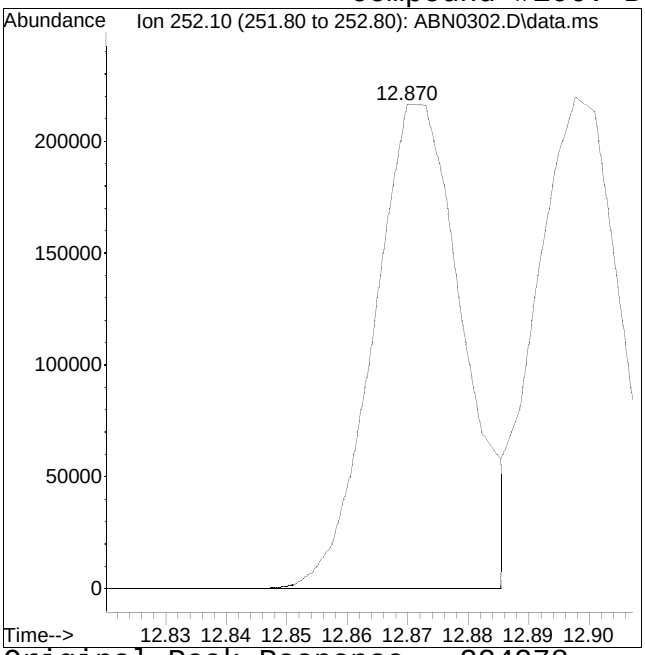
Original Peak Response = 210148 Manual Peak Response = 210148 M3

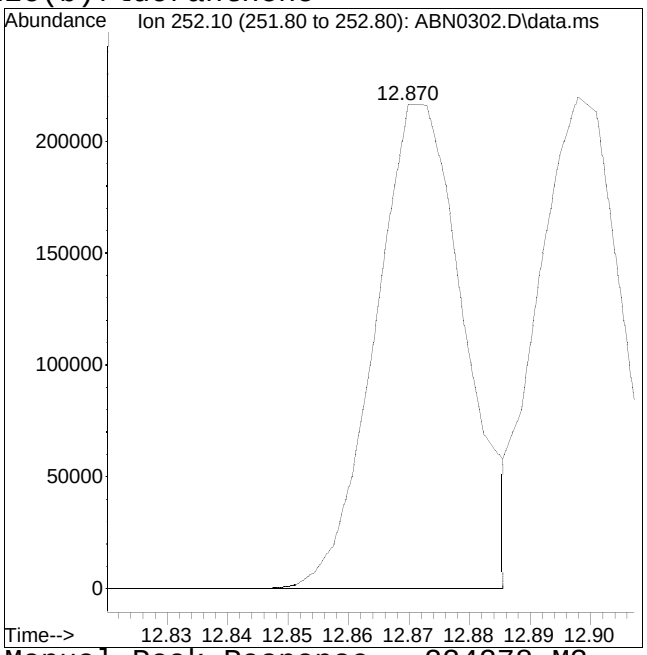
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\8270\Dakota\240302lvi\ QMethod : FS240228LVIDakota.m
Data File : ABN0302.D Operator : Dakota:cmm
Date Inj'd : 3/2/2024 1:55 pm Instrument : Dakota
Sample : WG1891492-3,32,,ABN LVI CCQuant Date : 3/2/2024 3:16 pm

Compound #106: Benzo(b)fluoranthene



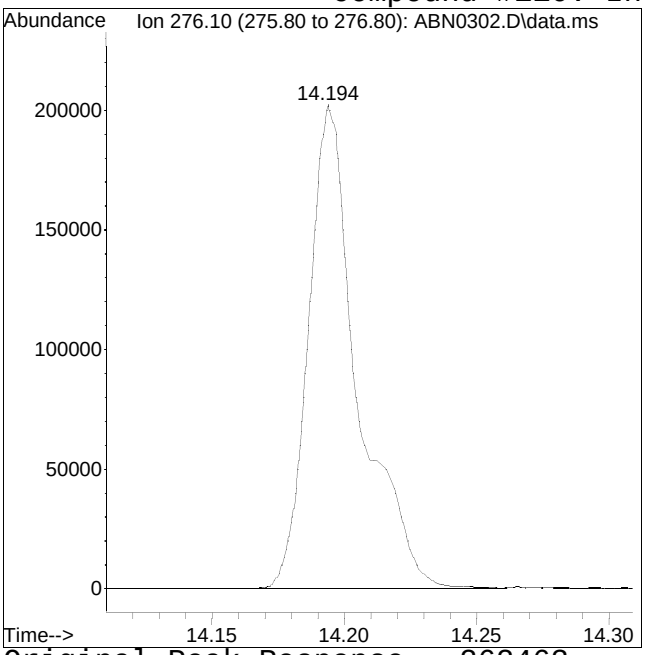


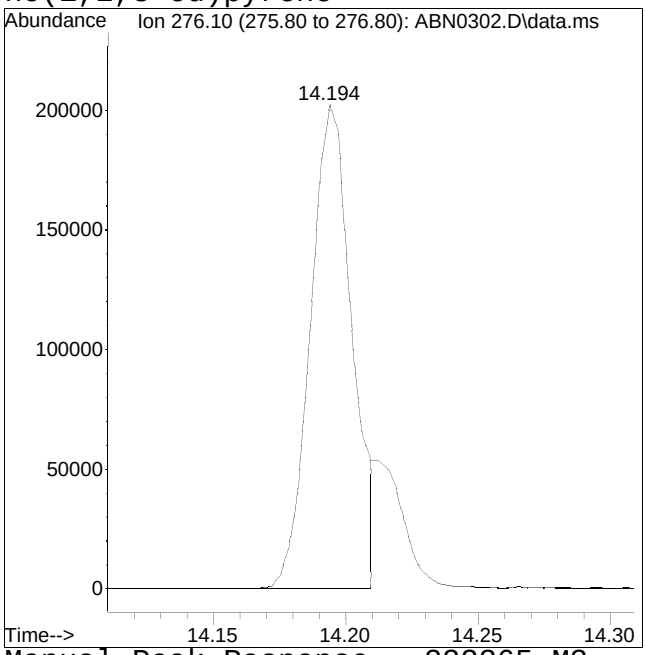
Original Peak Response = 224278 Manual Peak Response = 224278 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\8270\Dakota\240302lvi\ QMethod : FS240228LVIDakota.m
Data File : ABN0302.D Operator : Dakota:cmm
Date Inj'd : 3/2/2024 1:55 pm Instrument : Dakota
Sample : WG1891492-3,32,,ABN LVI CCQuant Date : 3/2/2024 3:16 pm

Compound #110: Indeno(1,2,3-cd)pyrene





Original Peak Response = 262463 Manual Peak Response = 222365 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Evaluate Continuing Calibration Report

Data Path : I:\8270\Dakota\240302lvi\
Data File : APDP0302.D
Acq On : 2 Mar 2024 2:17 pm
Operator : Dakota:cmm
Sample : WG1891492-4,32,,APDP LVI CCCV Lot # 10573
Misc : WG1891492,,ical20900
ALS Vial : 97 Sample Multiplier: 1

Quant Time: Mar 02 15:16:35 2024
Quant Method : I:\8270\dakota\240302lvi\FS240228LVIDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Mar 02 15:16:36 2024
Response via : Initial Calibration

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

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(min)
27	I	IS2_1,4-Dichlorobenzene-d4		1.000	1.000	0.0	83	0.00
28	T	Benzaldehyde		0.482	0.481	0.2	84	0.00
29	T	Acetophenone		1.694	1.701	-0.4	84	0.00
30	T	m-Toluidine		1.213	1.258	-3.7	84	0.00
31	T	2-Chloroaniline		1.433	1.506	-5.1	86	0.00
32	T	n-Decane		1.418	1.297	8.5	78	0.00
53	I	IS2_Naphthalene-d8		1.000	1.000	0.0	82	0.00
54	T	a-Terpineol		0.299	0.286	4.3	80	0.00
55	T	3-Chloroaniline		0.132	0.134	-1.5	84	0.00
56	T	2,6-Dichlorophenol		0.316	0.331	-4.7	85	0.00
57	T	1-chloro-2-nitrobenzene		0.129	0.133	-3.1	82	0.00
58	T	Caprolactam		0.165	0.167	-1.2	90	0.00
59	T	1,2,4,5-Tetrachlorobenzene		0.447	0.488	-9.2	92	0.00
60	T	Biphenyl		0.891	0.946	-6.2	86	0.00
81	I	IS2_Acenaphthene-d10		1.000	1.000	0.0	89	0.00
82	T	Dichloran		0.178	0.183	-2.8	104	0.00
83	T	Pentachloronitrobenzene		0.190	0.191	-0.5	90	0.00
84	T	Atrazine		0.384	0.439	-14.3	102	0.00
95	I	IS2_Phenanthrene-d10		1.000	1.000	0.0	95	0.00
96	T	Diphenamid		0.446	0.466	-4.5	99	0.00
97	T	n-Octadecane		0.405	0.344	15.1	79	0.00
98	T	Parathion	*	5.000	4.856	2.9	97	0.00
99	T	3,3'-Dimethylbenzidine	*	5.000	4.708	5.8	96	0.00

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240302lvi\
Data File : APDP0302.D
Acq On : 2 Mar 2024 2:17 pm
Operator : Dakota:cmm
Sample : WG1891492-4,32,,APDP LVI CCCV Lot # 10573
Misc : WG1891492,,ical20900
ALS Vial : 97 Sample Multiplier: 1

Quant Time: Mar 02 15:16:35 2024
Quant Method : I:\8270\dakota\240302lvi\FS240228LVIDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Mar 02 15:16:36 2024
Response via : Initial Calibration

Sub List : AP9ADP_REV1 - Combined adp and ap9 sublist

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
27) IS2_1,4-Dichlorobenzen...	4.776	152	20026	4.000	ug/ml		0.00
53) IS2_Naphthalene-d8	6.010	136	70682	4.000	ug/ml	#	0.00
81) IS2_Acenaphthene-d10	7.710	164	48337	4.000	ug/ml		0.00
95) IS2_Phenanthrene-d10	9.140	188	113942	4.000	ug/ml		0.00
System Monitoring Compounds							
Target Compounds							Qvalue
28) Benzaldehyde	4.347	105	12052	4.991	ug/ml		97
29) Acetophenone	5.177	105	42582	5.021	ug/ml	#	82
30) m-Toluidine	5.258	106	31487	5.185	ug/ml		96
31) 2-Chloroaniline	5.615	127	37703	5.256	ug/ml	#	92
32) n-Decane	4.661	57	32460	4.573	ug/ml	#	31
54) a-Terpineol	6.063	59	25286	4.792	ug/ml	#	85
55) 3-Chloroaniline	6.079	65	11849	5.063	ug/ml		91
56) 2,6-Dichlorophenol	6.107	162	29258	5.244	ug/ml	#	83
57) 1-chloro-2-nitrobenzene	6.361	111	11793	5.186	ug/ml	#	1
58) Caprolactam	6.396	55	14712	5.060	ug/ml	#	81
59) 1,2,4,5-Tetrachloroben...	6.877	216	43157	5.470	ug/ml	#	95
60) Biphenyl	7.166	154	83546	5.308	ug/ml		99
82) Dichloran	8.839	206	11067	5.157	ug/ml	#	57
83) Pentachloronitrobenzene	8.988	237	11566	5.030	ug/ml	#	76
84) Atrazine	8.907	200	26517	5.721	ug/ml		92
96) Diphenamid	10.041	167	66398	5.231	ug/ml	#	75
97) n-Octadecane	9.109	57	49022	4.251	ug/ml	#	1
98) Parathion	9.920	109	10692	4.856	ug/ml		86
99) 3,3'-Dimethylbenzidine	11.204	212	69508	4.708	ug/ml		99

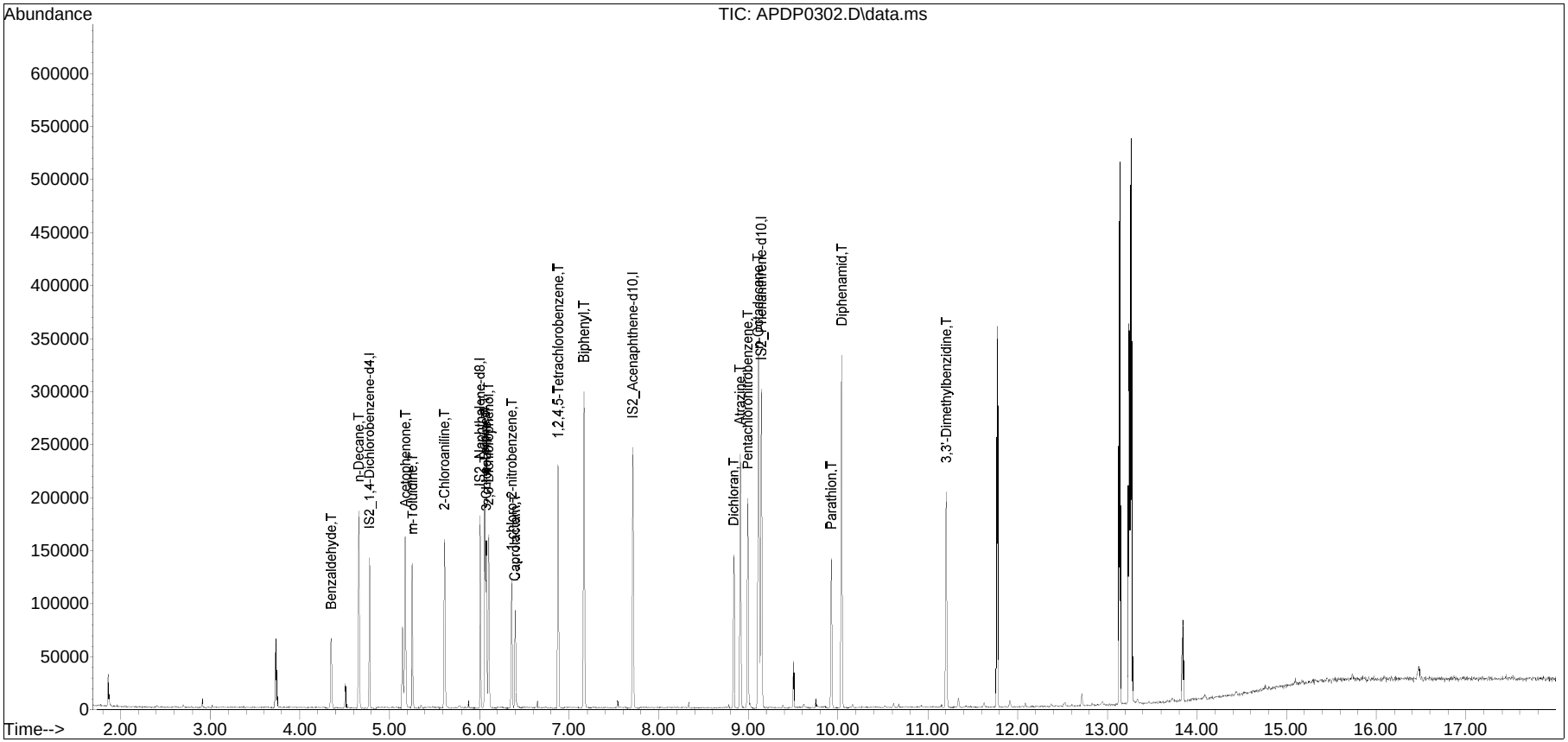
(#) = qualifier out of range (m) = manual integration (+) = signals summed

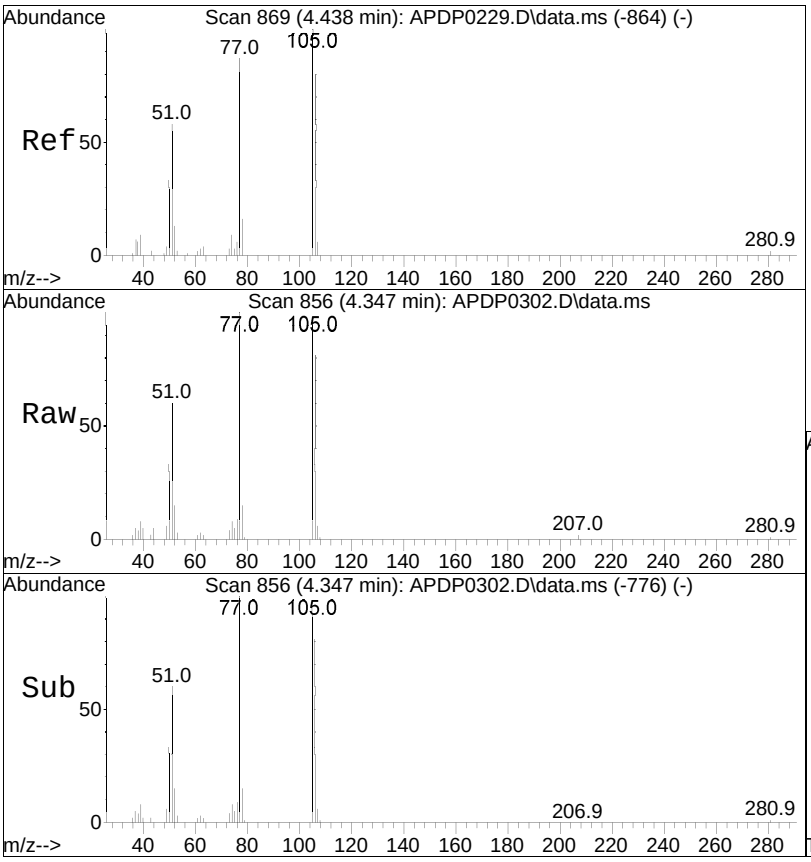
Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240302lvi\
Data File : APDP0302.D
Acq On : 2 Mar 2024 2:17 pm
Operator : Dakota:cmm
Sample : WG1891492-4,32,,APDP LVI CCCV Lot # 10573
Misc : WG1891492,,ical20900
ALS Vial : 97 Sample Multiplier: 1

Quant Time: Mar 02 15:16:35 2024
Quant Method : I:\8270\dakota\240302lvi\FS240228LVIDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Mar 02 15:16:36 2024
Response via : Initial Calibration

Sub List : AP9ADP_REV1 - Combined adp and ap9 sublist

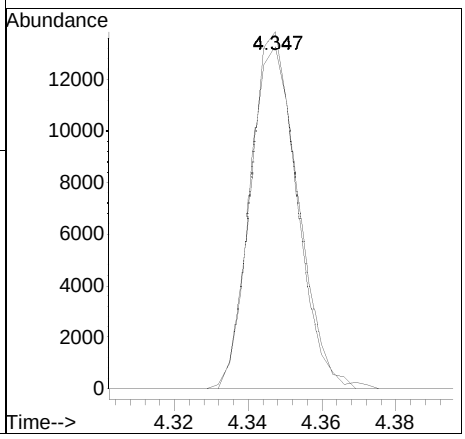


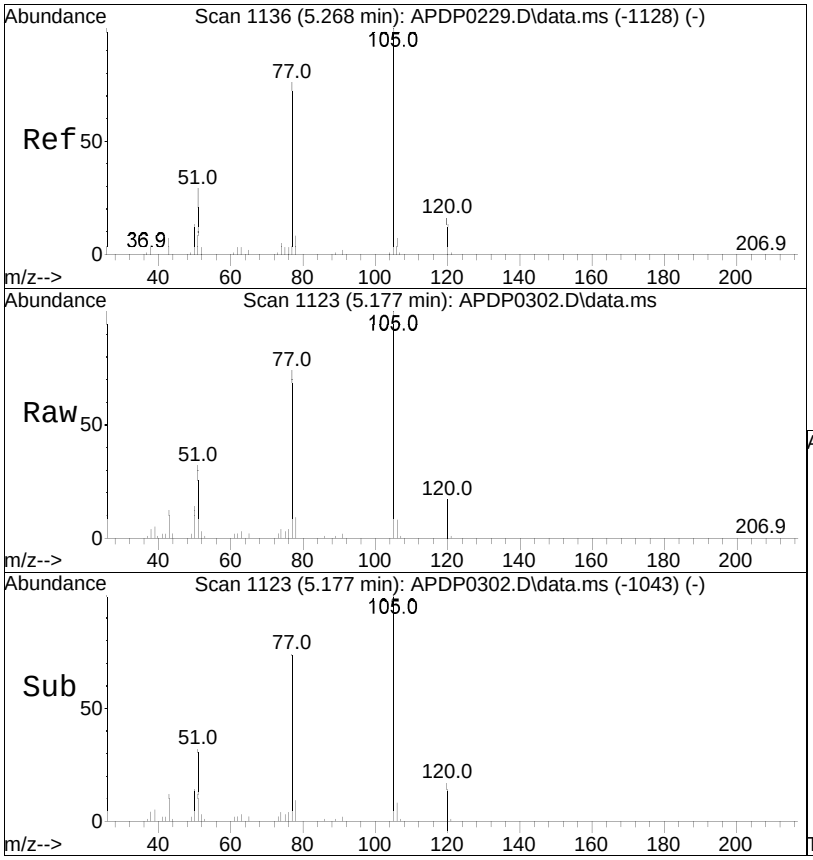


#28
Benzaldehyde
Concen: 4.99 ug/ml
RT: 4.347 min Scan# 856
Delta R.T. 0.000 min
Lab File: APDP0302.D
Acq: 2 Mar 2024 2:17 pm

Tgt Ion:105 Resp: 12052

Ion	Ratio	Lower	Upper
105	100		
77	99.4	82.2	123.4

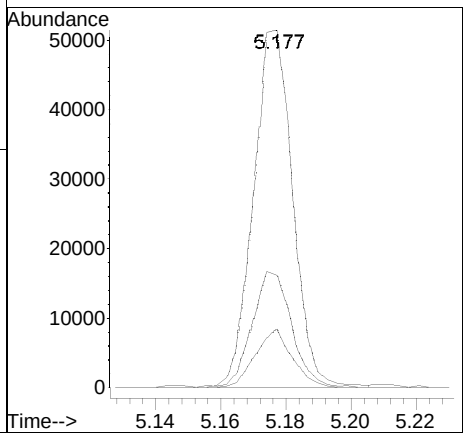


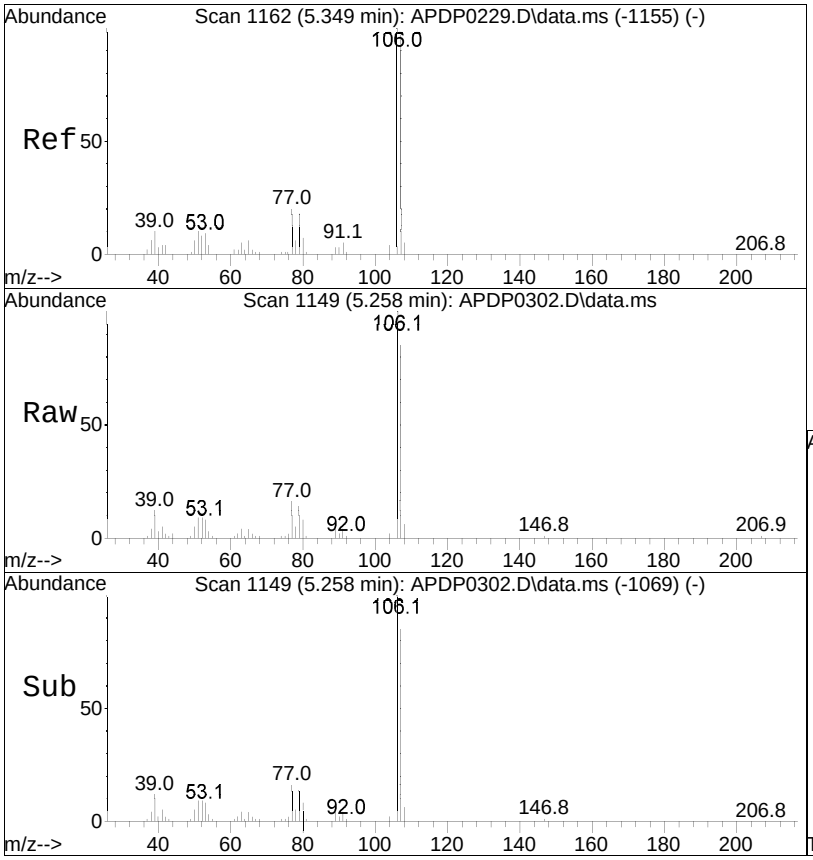


#29
Acetophenone
Concen: 5.02 ug/ml
RT: 5.177 min Scan# 1123
Delta R.T. 0.000 min
Lab File: APDP0302.D
Acq: 2 Mar 2024 2:17 pm

Tgt Ion:105 Resp: 42582

Ion	Ratio	Lower	Upper
105	100		
120	15.5	20.5	30.7#
51	33.0	34.9	52.3#

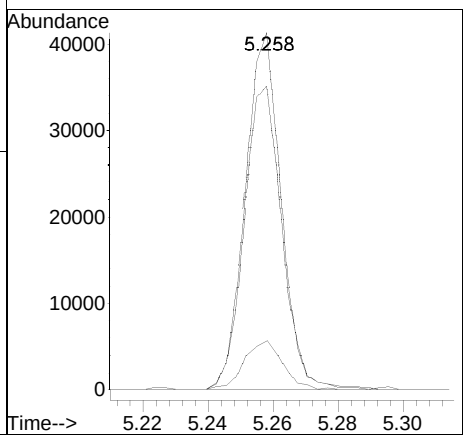


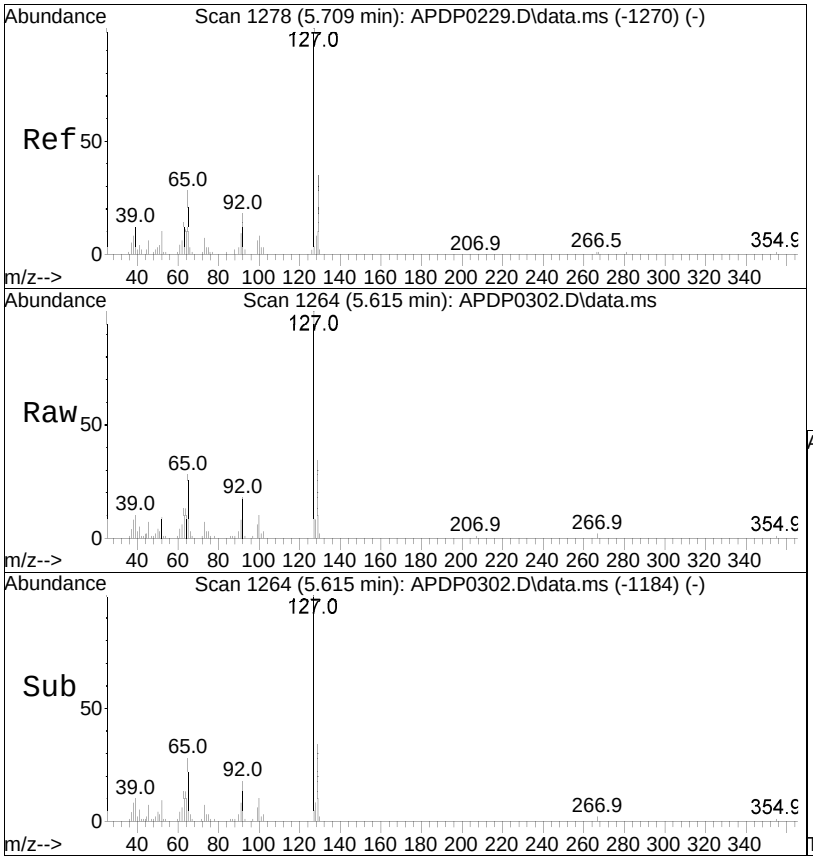


#30
m-Toluidine
Concen: 5.18 ug/ml
RT: 5.258 min Scan# 1149
Delta R.T. 0.000 min
Lab File: APDP0302.D
Acq: 2 Mar 2024 2:17 pm

Tgt Ion:106 Resp: 31487

Ion	Ratio	Lower	Upper
106	100		
107	89.8	75.7	113.5
79	14.8	11.8	17.8

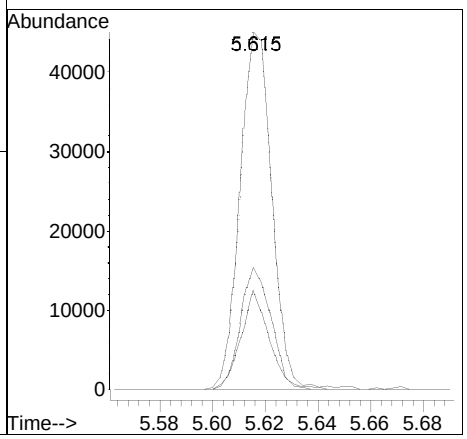


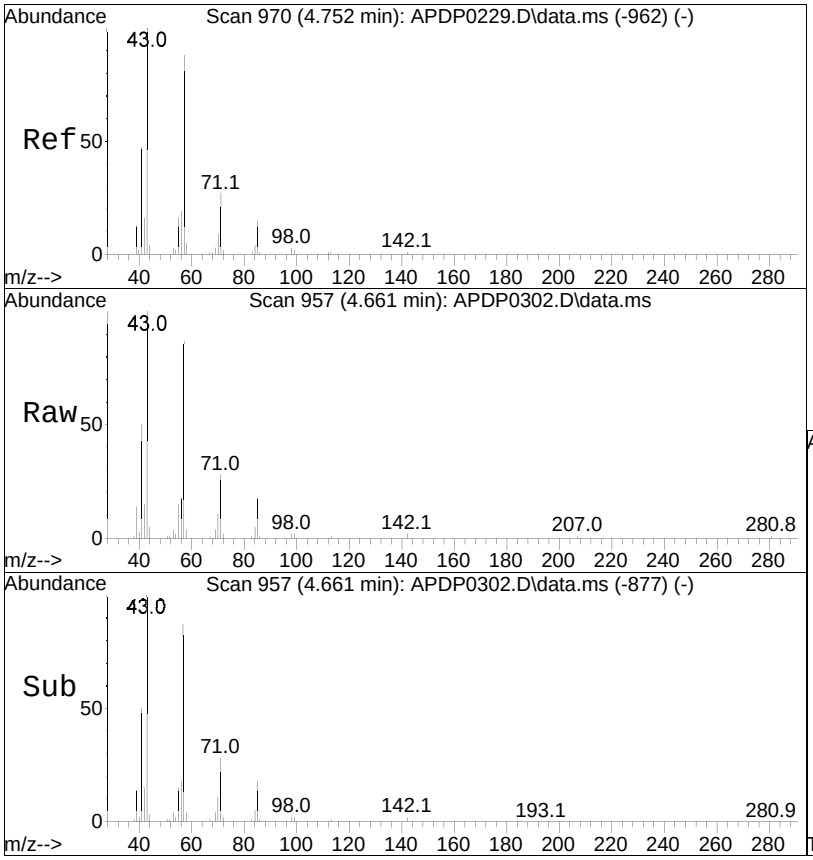


#31
2-Chloroaniline
Concen: 5.26 ug/ml
RT: 5.615 min Scan# 1264
Delta R.T. 0.000 min
Lab File: APDP0302.D
Acq: 2 Mar 2024 2:17 pm

Tgt Ion:127 Resp: 37703

Ion	Ratio	Lower	Upper
127	100		
129	33.2	25.9	38.9
65	24.5	26.3	39.5#

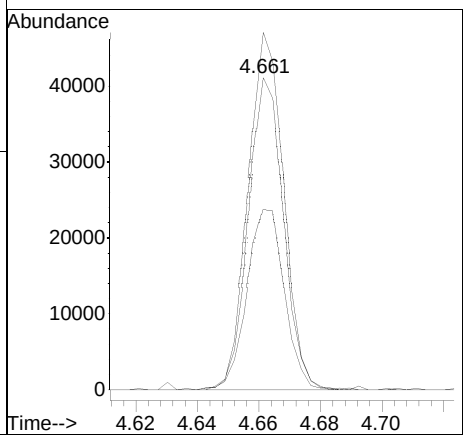


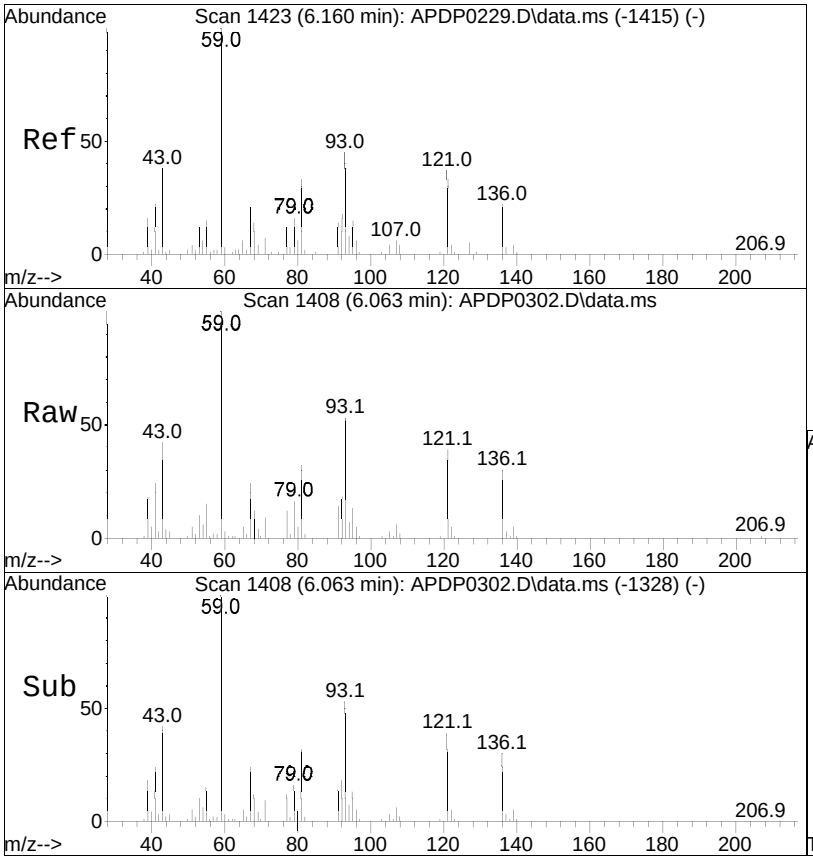


#32
n-Decane
Concen: 4.57 ug/ml
RT: 4.661 min Scan# 957
Delta R.T. 0.000 min
Lab File: APDP0302.D
Acq: 2 Mar 2024 2:17 pm

Tgt Ion: 57 Resp: 32460

Ion	Ratio	Lower	Upper
57	100		
43	116.0	0.2	0.2#
41	61.7	0.2	0.2#

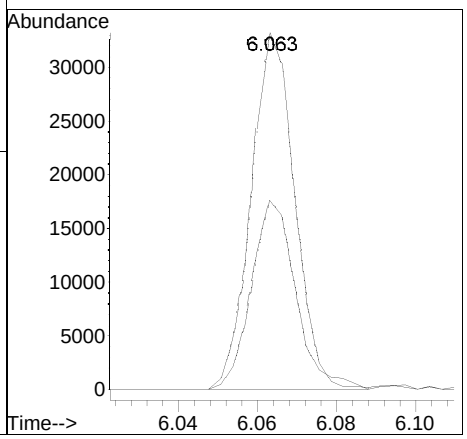


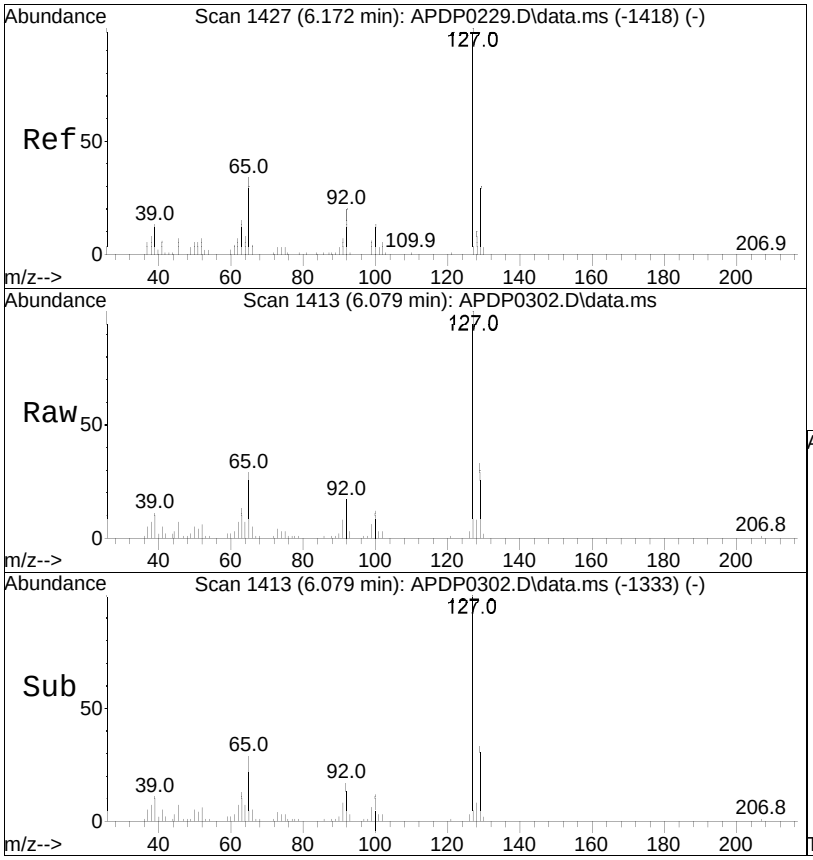


#54
a-Terpineol
Concen: 4.79 ug/ml
RT: 6.063 min Scan# 1408
Delta R.T. 0.000 min
Lab File: APDP0302.D
Acq: 2 Mar 2024 2:17 pm

Tgt Ion: 59 Resp: 25286

Ion	Ratio	Lower	Upper
59	100		
93	54.3	35.6	53.4#

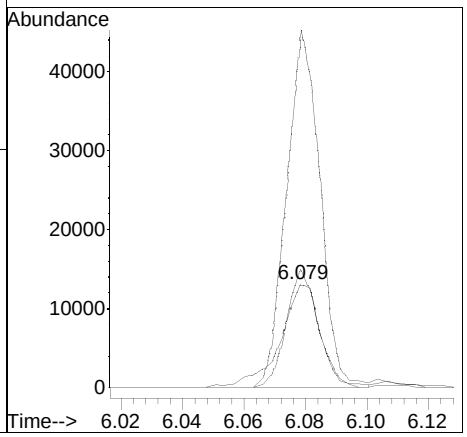


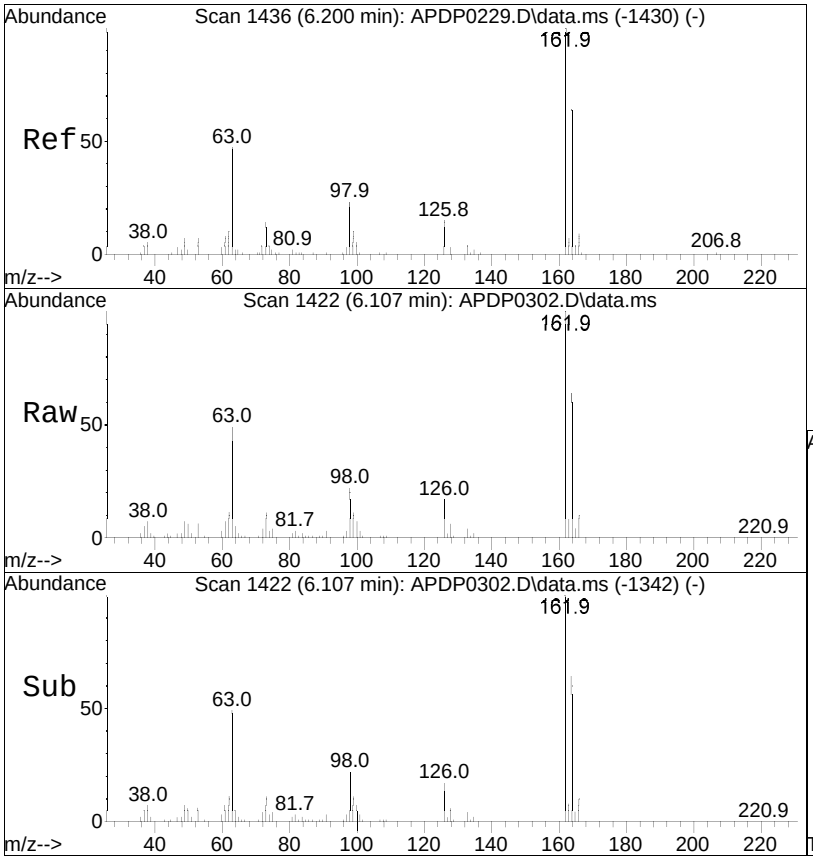


#55
3-Chloroaniline
Concen: 5.06 ug/ml
RT: 6.079 min Scan# 1413
Delta R.T. 0.000 min
Lab File: APDP0302.D
Acq: 2 Mar 2024 2:17 pm

Tgt Ion: 65 Resp: 11849

Ion	Ratio	Lower	Upper
65	100		
127	285.6	243.2	364.8
129	90.6	78.8	118.2

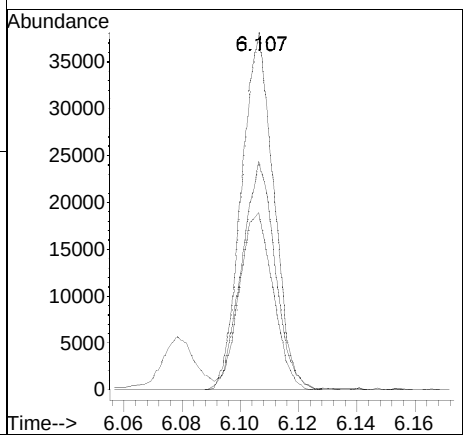


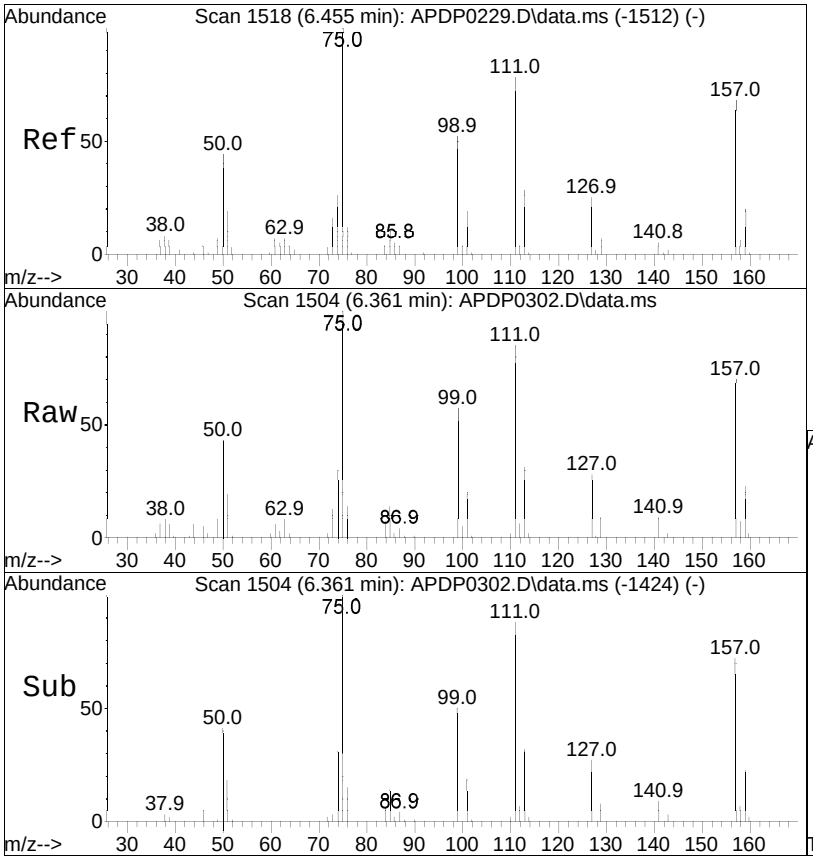


#56
2,6-Dichlorophenol
Concen: 5.24 ug/ml
RT: 6.107 min Scan# 1422
Delta R.T. 0.000 min
Lab File: APDP0302.D
Acq: 2 Mar 2024 2:17 pm

Tgt Ion:162 Resp: 29258

Ion	Ratio	Lower	Upper
162	100		
164	65.9	51.1	76.7
63	51.7	60.8	91.2#

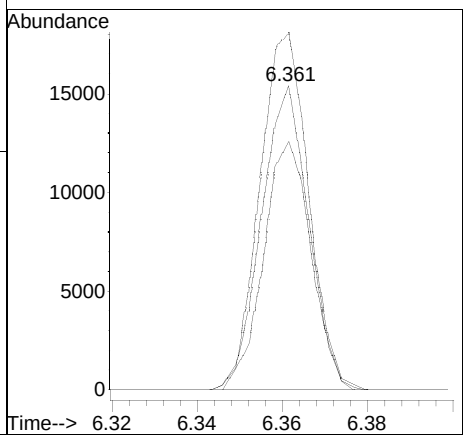


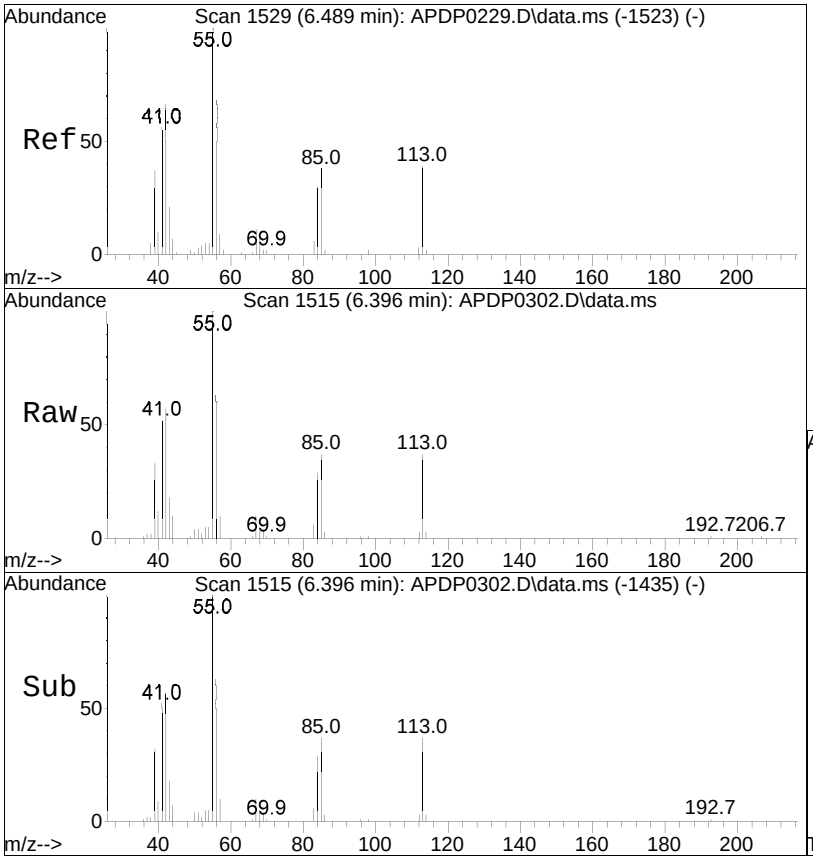


#57
1-chloro-2-nitrobenzene
Concen: 5.19 ug/ml
RT: 6.361 min Scan# 1504
Delta R.T. 0.000 min
Lab File: APDP0302.D
Acq: 2 Mar 2024 2:17 pm

Tgt Ion:111 Resp: 11793

Ion	Ratio	Lower	Upper
111	100		
157	82.5	0.0	0.0#
75	121.5	28.2	42.2#

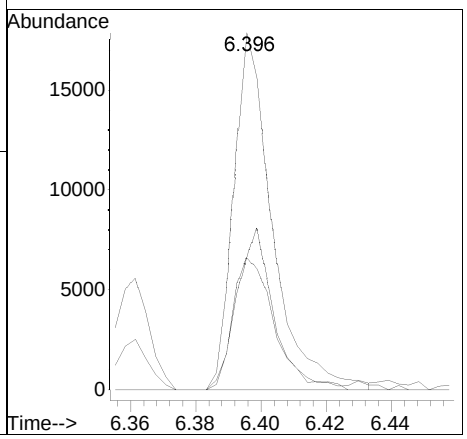


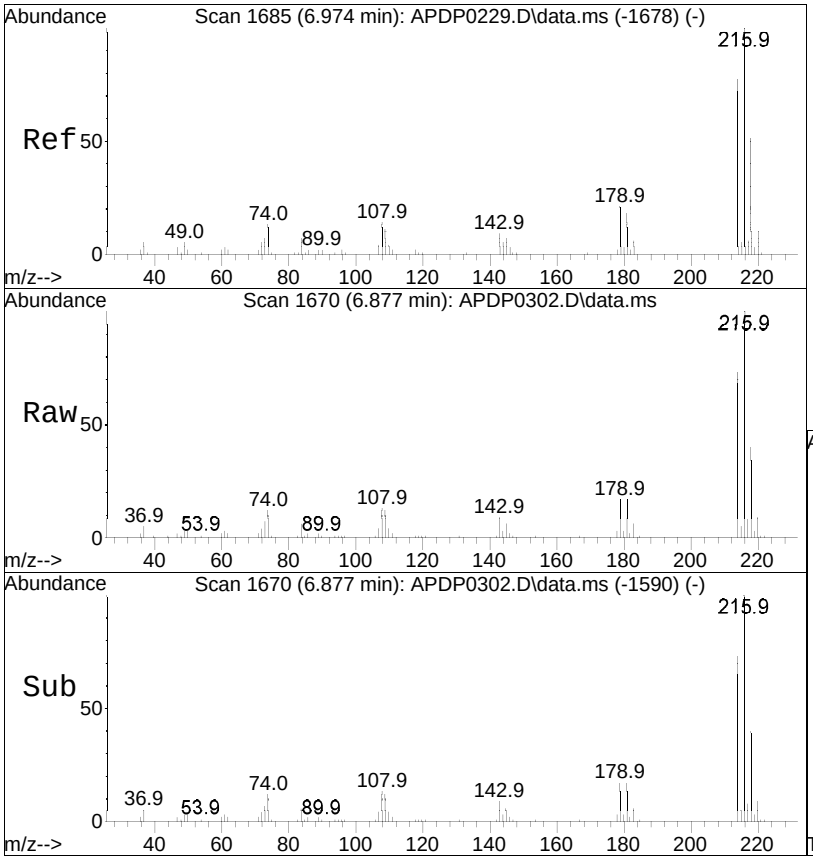


#58
Caprolactam
Concen: 5.06 ug/ml
RT: 6.396 min Scan# 1515
Delta R.T. 0.000 min
Lab File: APDP0302.D
Acq: 2 Mar 2024 2:17 pm

Tgt Ion: 55 Resp: 14712

Ion	Ratio	Lower	Upper
55	100		
85	40.0	19.8	29.6#
113	43.4	29.6	44.4

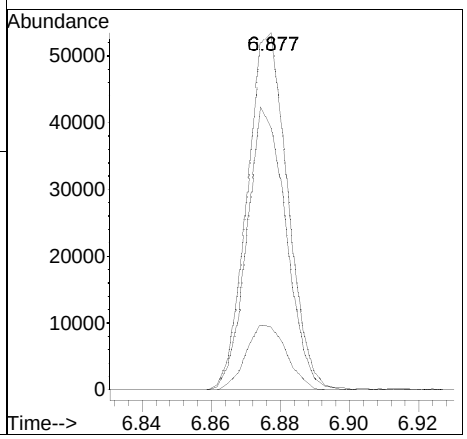


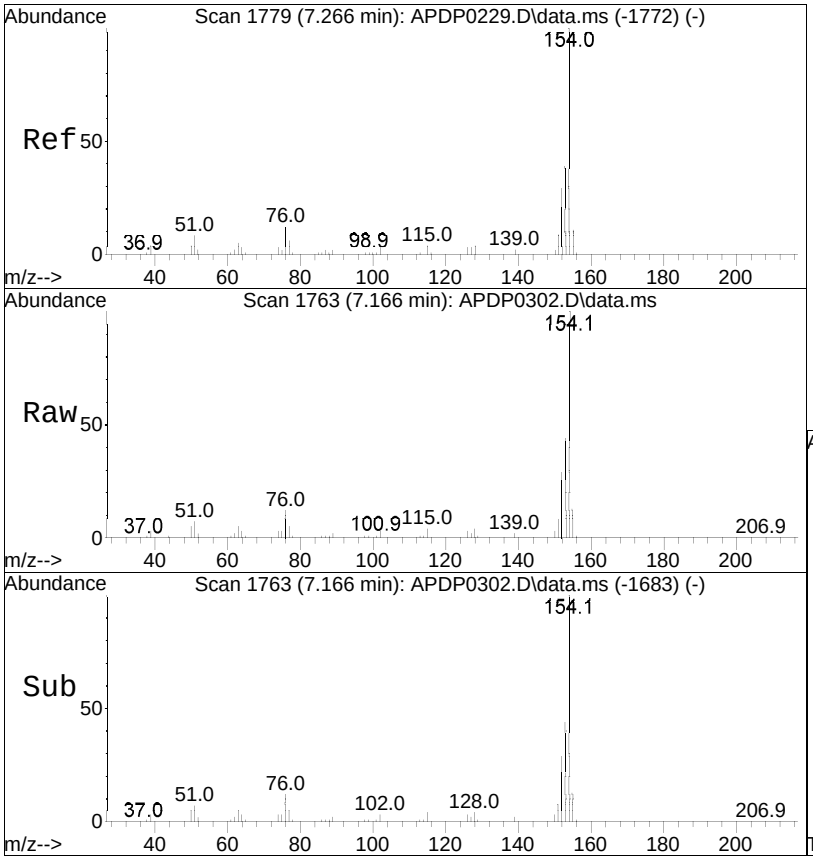


#59
1,2,4,5-Tetrachlorobenzene
Concen: 5.47 ug/ml
RT: 6.877 min Scan# 1670
Delta R.T. 0.000 min
Lab File: APDP0302.D
Acq: 2 Mar 2024 2:17 pm

Tgt Ion:216 Resp: 43157

Ion	Ratio	Lower	Upper
216	100		
214	76.6	63.7	95.5
179	18.2	19.0	28.6#

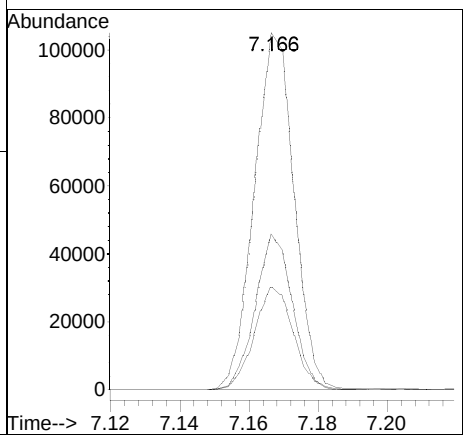


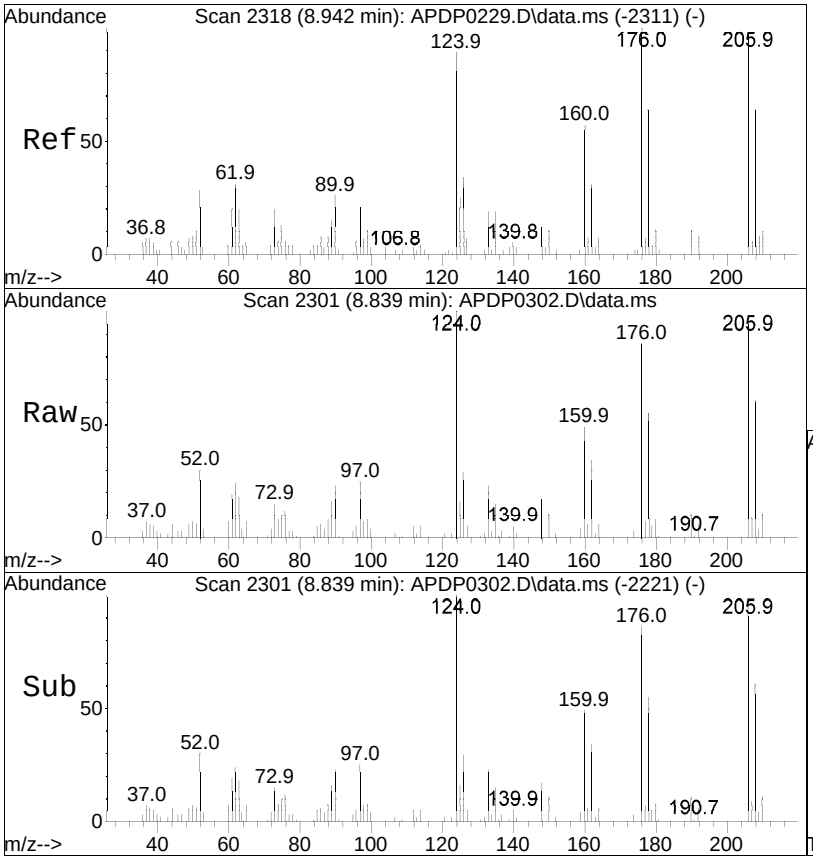


#60
Biphenyl
Concen: 5.31 ug/ml
RT: 7.166 min Scan# 1763
Delta R.T. 0.000 min
Lab File: APDP0302.D
Acq: 2 Mar 2024 2:17 pm

Tgt Ion:154 Resp: 83546

Ion	Ratio	Lower	Upper
154	100		
153	40.9	32.3	48.5
152	28.4	22.5	33.7

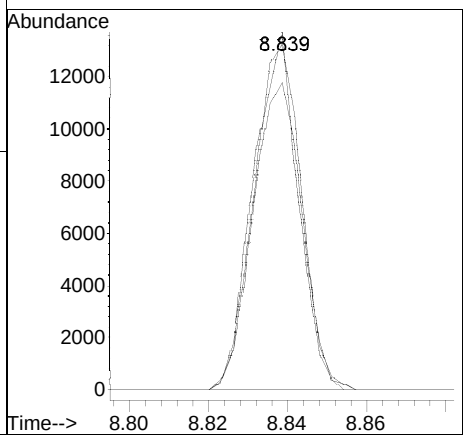


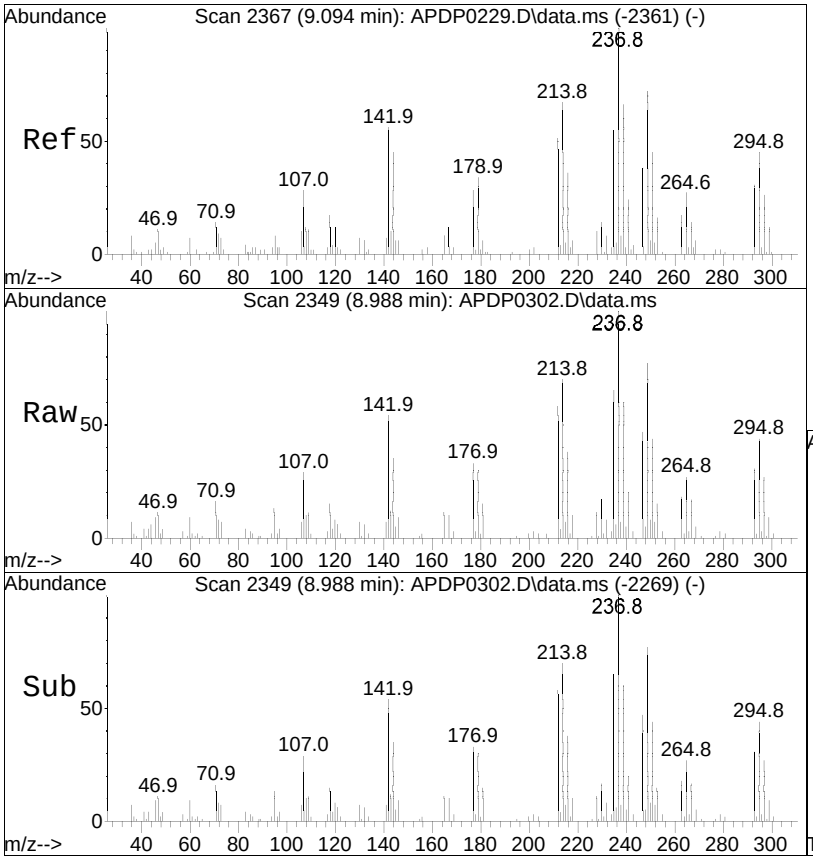


#82
Dichloran
Concen: 5.16 ug/ml
RT: 8.839 min Scan# 2301
Delta R.T. 0.000 min
Lab File: APDP0302.D
Acq: 2 Mar 2024 2:17 pm

Tgt Ion:206 Resp: 11067

Ion	Ratio	Lower	Upper
206	100		
176	91.2	104.6	157.0#
124	96.0	130.5	195.7#

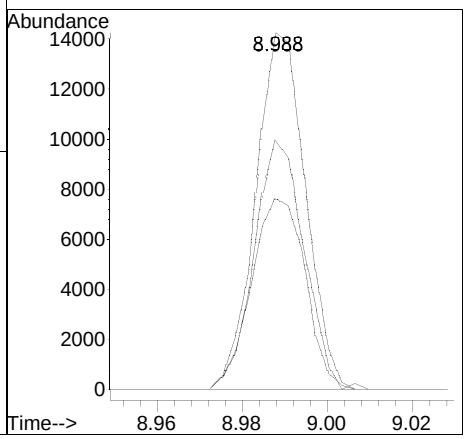


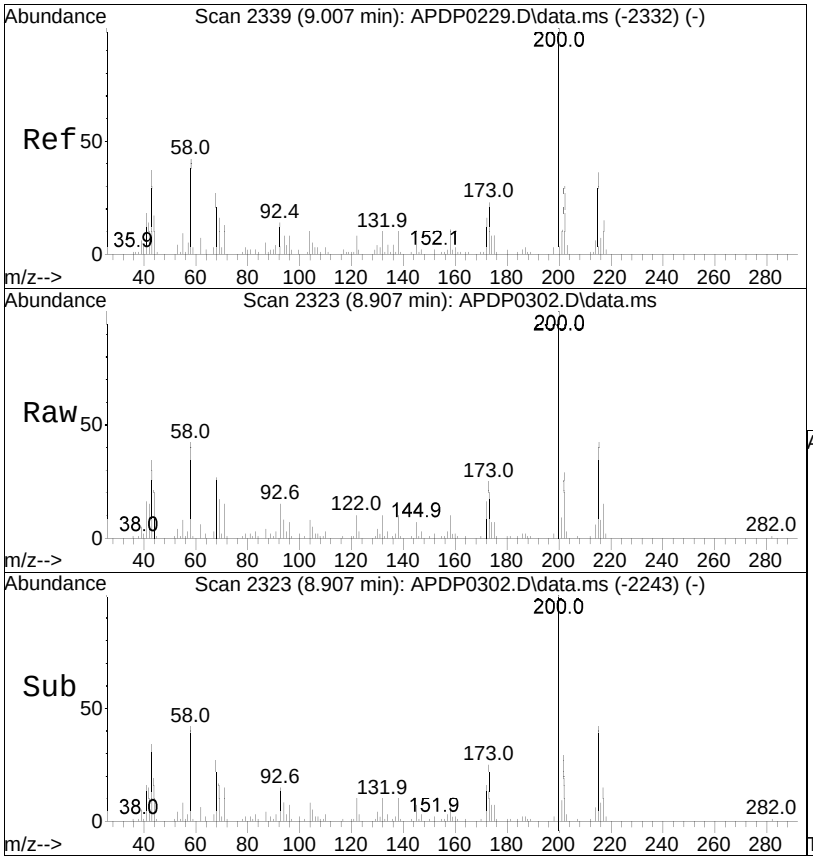


#83
Pentachloronitrobenzene
Concen: 5.03 ug/ml
RT: 8.988 min Scan# 2349
Delta R.T. 0.000 min
Lab File: APDP0302.D
Acq: 2 Mar 2024 2:17 pm

Tgt Ion:237 Resp: 11566

Ion	Ratio	Lower	Upper
237	100		
142	57.9	77.0	115.4#
214	70.2	58.2	87.4

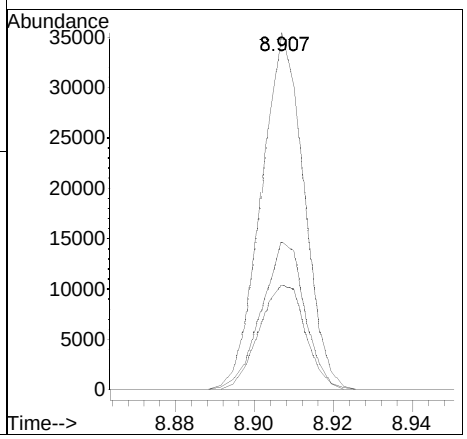


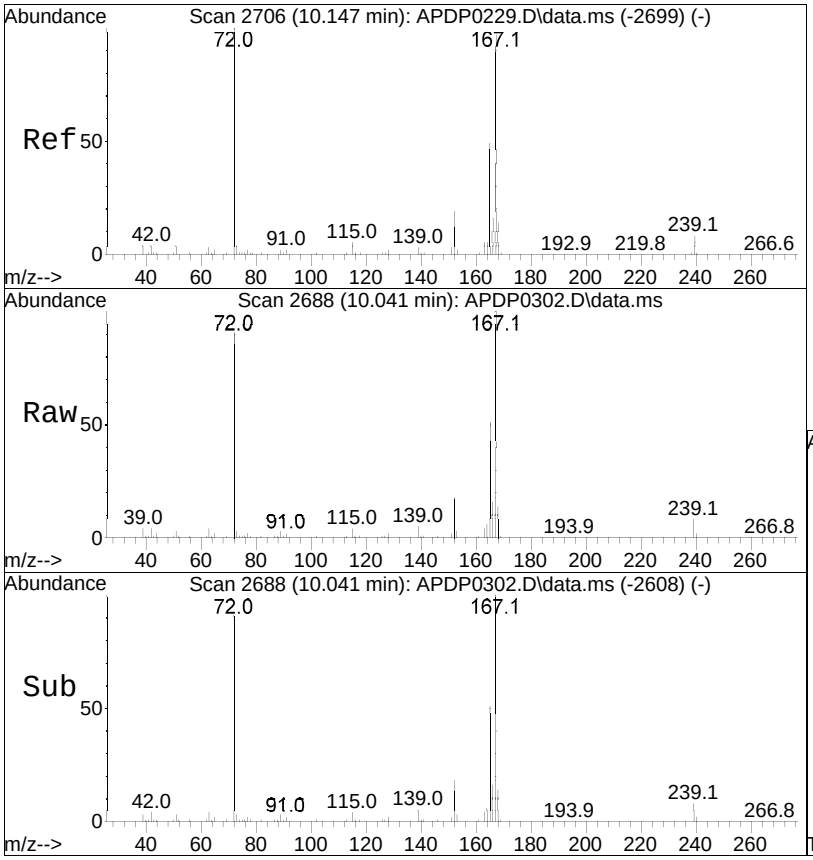


#84
Atrazine
Concen: 5.72 ug/ml
RT: 8.907 min Scan# 2323
Delta R.T. 0.000 min
Lab File: APDP0302.D
Acq: 2 Mar 2024 2:17 pm

Tgt Ion:200 Resp: 26517

Ion	Ratio	Lower	Upper
200	100		
202	31.8	25.8	38.6
215	41.8	40.2	60.4

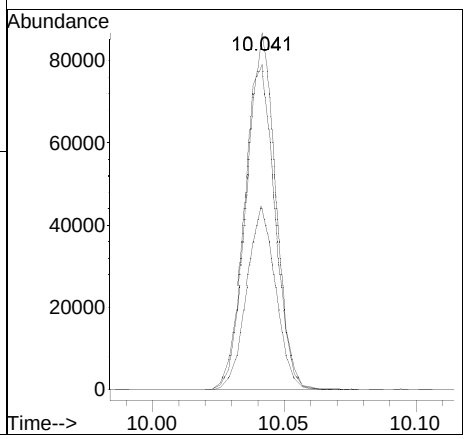


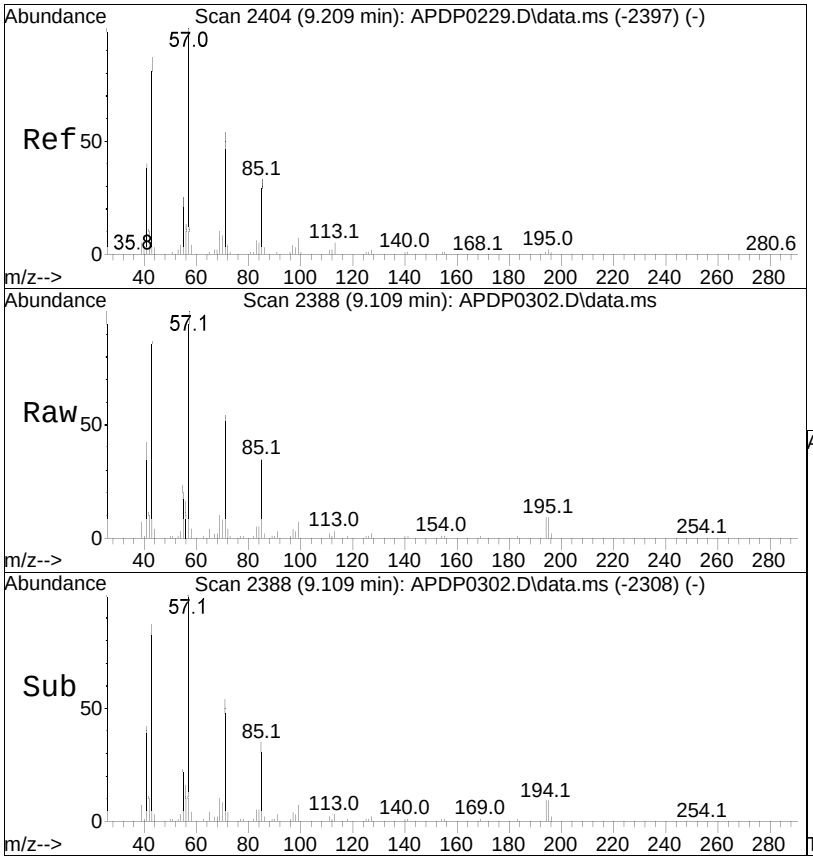


#96
Diphenamid
Concen: 5.23 ug/ml
RT: 10.041 min Scan# 2688
Delta R.T. 0.000 min
Lab File: APDP0302.D
Acq: 2 Mar 2024 2:17 pm

Tgt Ion:167 Resp: 66398

Ion	Ratio	Lower	Upper
167	100		
72	95.8	109.7	164.5#
165	51.2	41.8	62.6

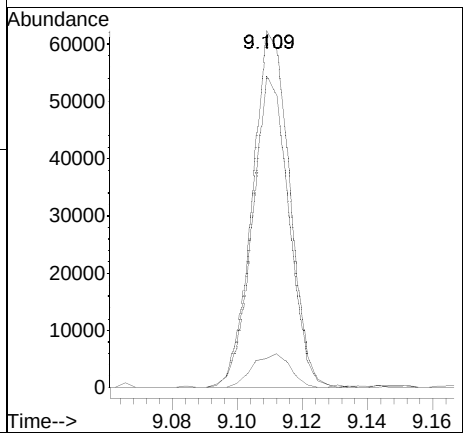


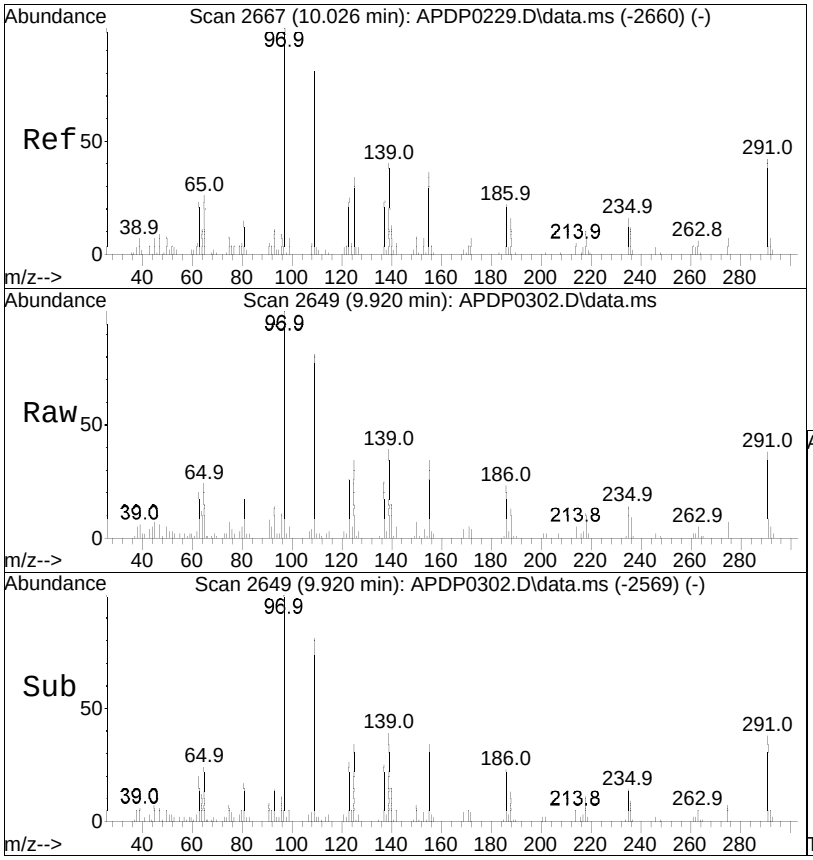


#97
n-Octadecane
Concen: 4.25 ug/ml
RT: 9.109 min Scan# 2388
Delta R.T. 0.000 min
Lab File: APDP0302.D
Acq: 2 Mar 2024 2:17 pm

Tgt Ion: 57 Resp: 49022

Ion	Ratio	Lower	Upper
57	100		
43	85.6	9.0	13.6#
70	9.7	0.2	0.2#

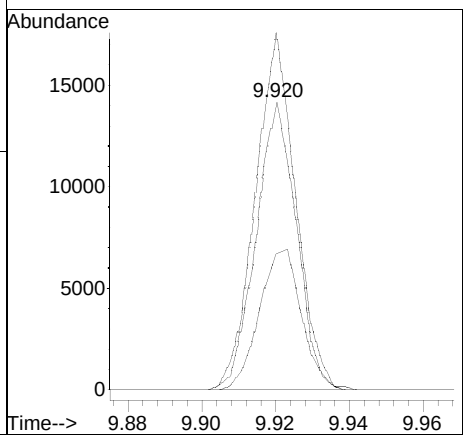


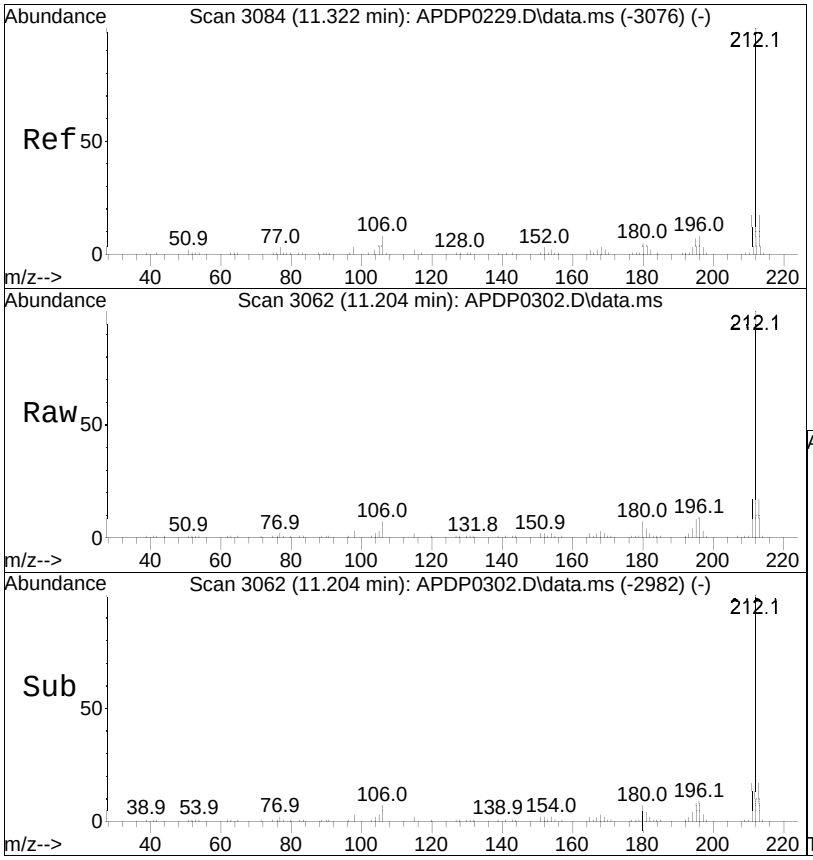


#98
Parathion
Concen: 4.86 ug/ml
RT: 9.920 min Scan# 2649
Delta R.T. 0.000 min
Lab File: APDP0302.D
Acq: 2 Mar 2024 2:17 pm

Tgt Ion:109 Resp: 10692

Ion	Ratio	Lower	Upper
109	100		
97	123.8	87.4	131.2
291	51.0	34.2	51.2

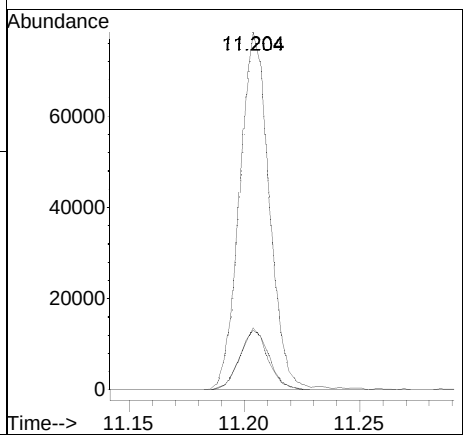




#99
3,3'-Dimethylbenzidine
Concen: 4.71 ug/ml
RT: 11.204 min Scan# 3062
Delta R.T. 0.000 min
Lab File: APDP0302.D
Acq: 2 Mar 2024 2:17 pm

Tgt Ion:212 Resp: 69508

Ion	Ratio	Lower	Upper
212	100		
211	16.7	12.9	19.3
213	16.1	13.2	19.8



Manual Integration Report

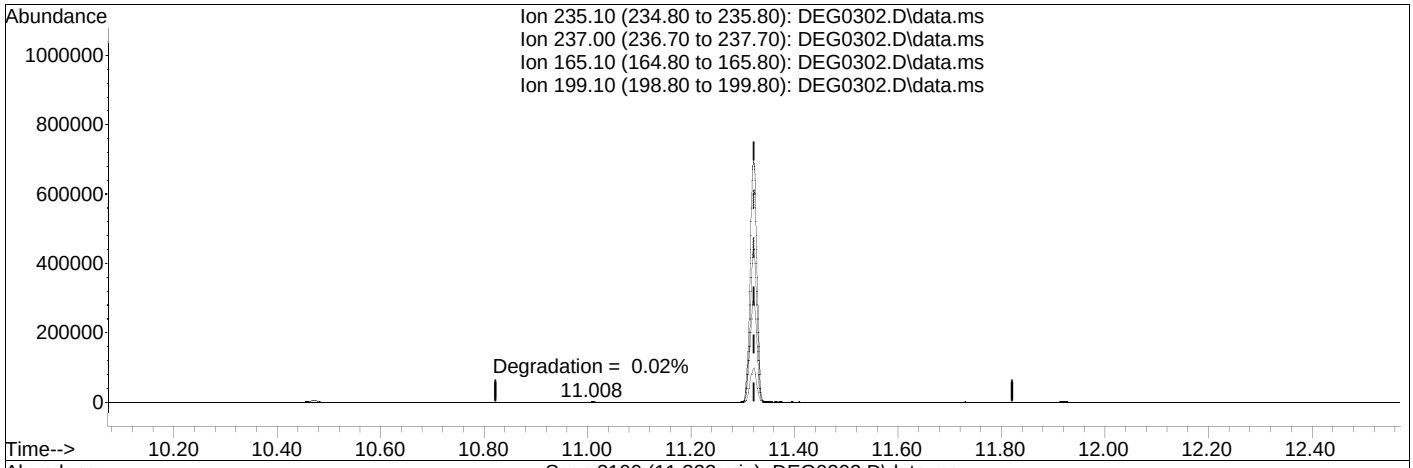
Data Path	: I:\8270\Dakota\240302lvi\	QMethod	: FS240228LVIDakota.m
Data File	: APDP0302.D	Operator	: Dakota:cmm
Date Inj'd	: 3/2/2024 2:17 pm	Instrument	: Dakota
Sample	: WG1891492-4,32,,APDP LVI	CQuant Date	: 3/2/2024 3:16 pm

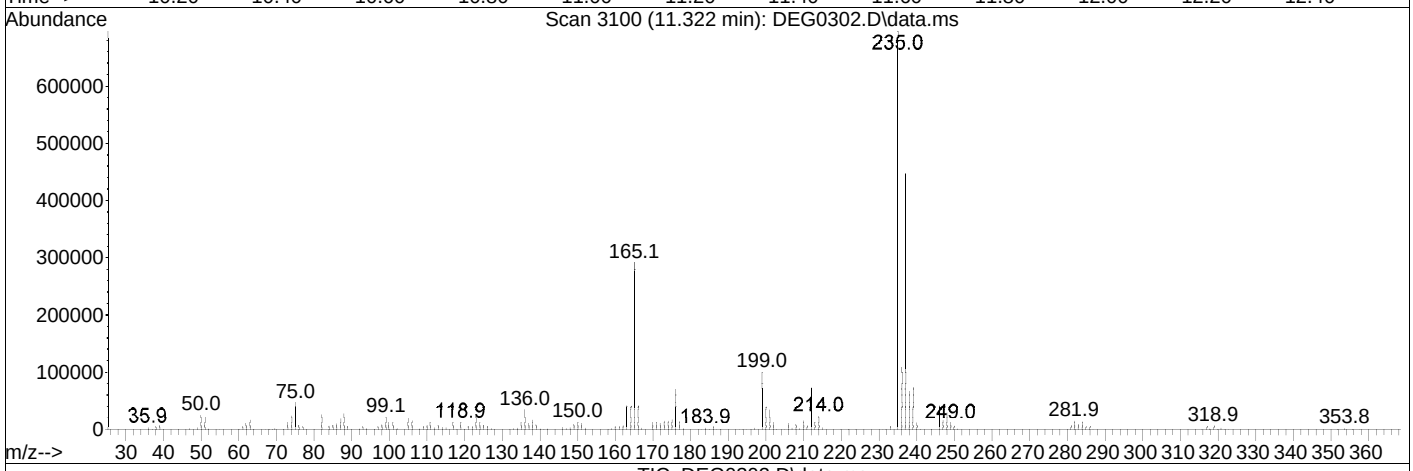
There are no manual integrations or false positives in this file.

Quantitation Report (Qedit)

Data Path : I:\8270\Dakota\240302lvi\
Data File : DEG0302.D
Acq On : 2 Mar 2024 1:32 pm
Operator : Dakota:cmm
Sample : WG1891492-2,32,,Dakota Degdftpp
Misc : WG1891492,,ical20900
ALS Vial : 100 Sample Multiplier: 1

Quant Time: Mar 03 07:03:39 2024
Quant Method : I:\8270\Dakota\240302lvi\DftppDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sun Mar 03 07:04:09 2024
Response via : Initial Calibration





TIC: DEG0302.D\data.ms

(6) DDT (T)

11.322min (-0.000) 99.43

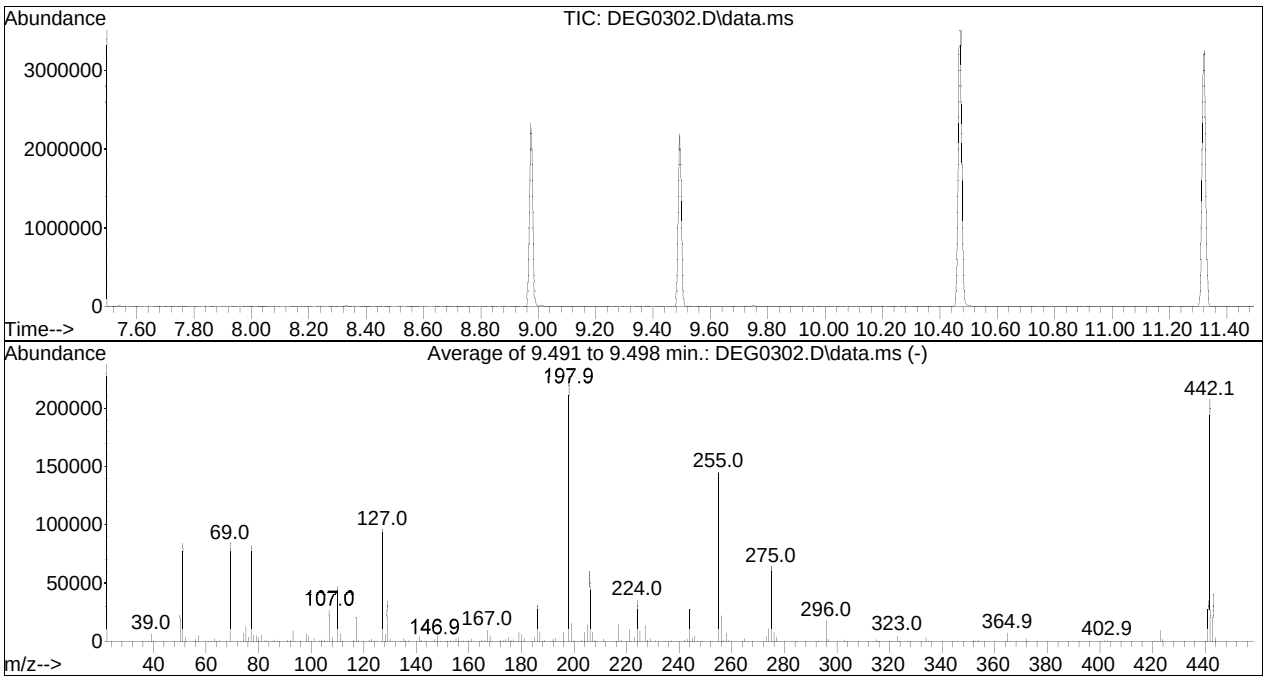
response 606076

Ion	Exp%	Act%
235.10	100.00	100.00
237.00	65.30	64.41
165.10	49.60	43.05
199.10	15.70	14.11

Data Path : I:\8270\Dakota\240302lvi\
Data File : DEG0302.D
Acq On : 2 Mar 2024 1:32 pm
Operator : Dakota:cmm
Sample : WG1891492-1,32,,Dakota Degdftpp
Misc : WG1891492,,ical20900
ALS Vial : 100 Sample Multiplier: 1

Integration File: rteint.p

Method : I:\8270\dakota\240302lvi\FS240228LVIDakota.m
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Sat Mar 02 12:22:58 2024



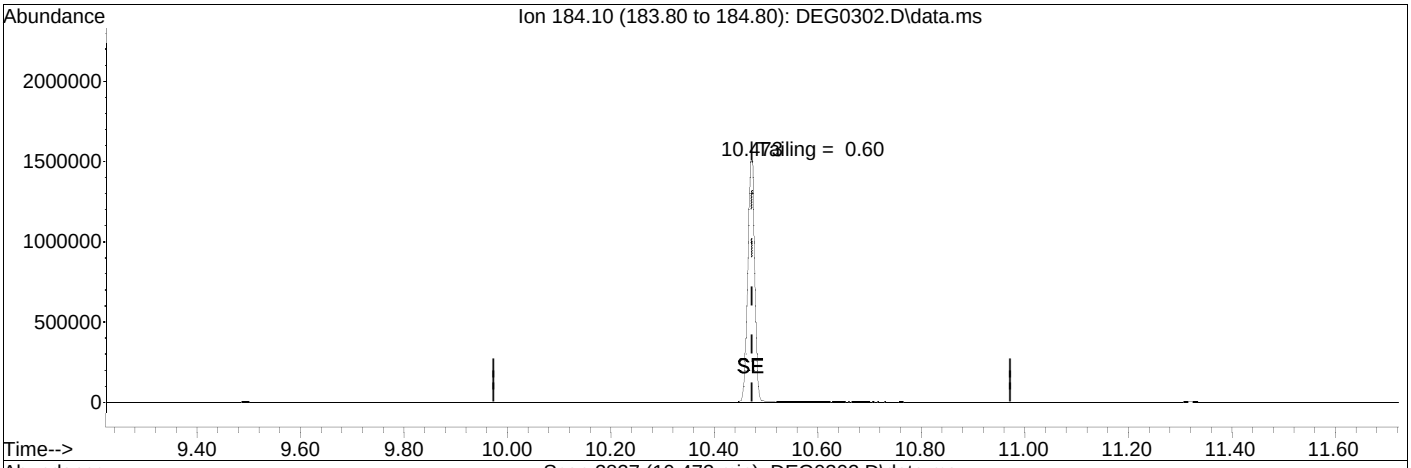
Spectrum Information: Average of 9.491 to 9.498 min.

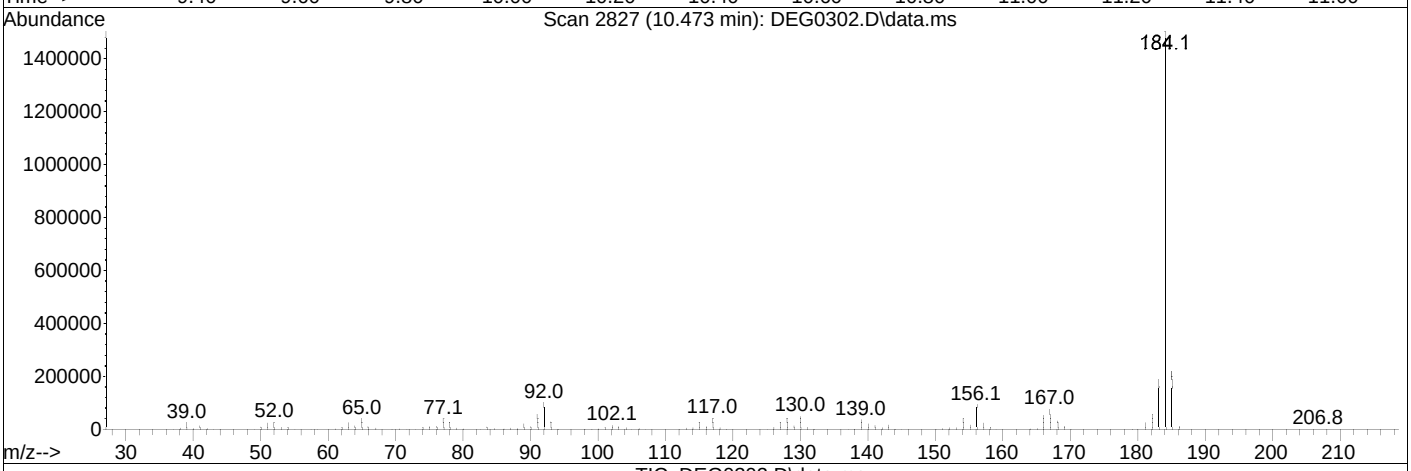
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	37.0	83776	PASS
68	69	0.00	2	0.0	0	PASS
69	69	100	100	100.0	84019	PASS
70	69	0.00	2	0.5	405	PASS
127	198	10	80	42.4	95859	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	226325	PASS
199	198	5	9	6.7	15199	PASS
275	198	10	60	28.3	64029	PASS
365	198	1	100	3.3	7462	PASS
441	442	0.01	24	16.8	34800	PASS
442	198	50	100	91.8	207744	PASS
443	442	15	24	19.4	40315	PASS

Quantitation Report (Qedit)

Data Path : I:\8270\Dakota\240302lvi\
Data File : DEG0302.D
Acq On : 2 Mar 2024 1:32 pm
Operator : Dakota:cmm
Sample : WG1891492-6,32,,Dakota Degdftpp
Misc : WG1891492,,ical20900
ALS Vial : 100 Sample Multiplier: 1

Quant Time: Mar 03 07:03:39 2024
Quant Method : I:\8270\Dakota\240302lvi\DftppDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sun Mar 03 07:04:09 2024
Response via : Initial Calibration





TIC: DEG0302.D\data.ms

(3) Benzidine (T)

10.473min (+ 0.000) 132.90

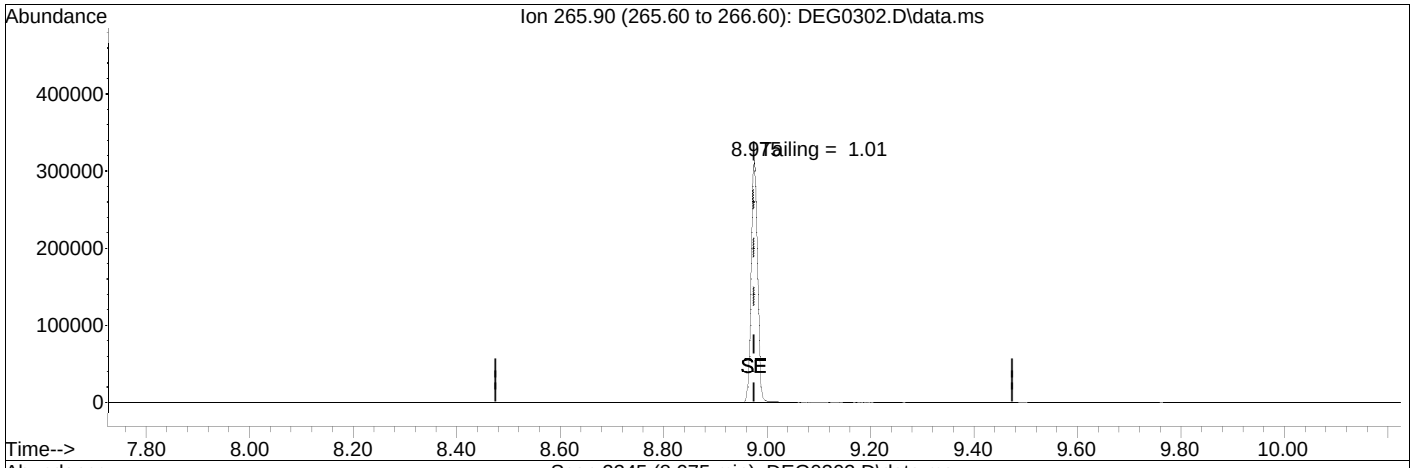
response 1352974

Ion	Exp%	Act%
184.10	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\8270\Dakota\240302lvi\
Data File : DEG0302.D
Acq On : 2 Mar 2024 1:32 pm
Operator : Dakota:cmm
Sample : WG1891492-7,32,,Dakota Degdftpp
Misc : WG1891492,,ical20900
ALS Vial : 100 Sample Multiplier: 1

Quant Time: Mar 03 07:03:39 2024
Quant Method : I:\8270\Dakota\240302lvi\DftppDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sun Mar 03 07:04:09 2024
Response via : Initial Calibration



TIC: DEG0302.D\data.ms

(1) Pentachlorophenol (T)

8.975min (+ 0.000) 120.45

response 252985

Ion	Exp%	Act%
265.90	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Alpha Geoscience	**Lab Number**	: L2410579		
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116		
Instrument ID	: DAKOTA	**Calibration Date**	: 03/02/24 13:55		
Lab File ID	: ABN0302	**Init. Calib. Date(s)**	: 02/28/24	02/29/24	
Sample No	: WG1891492-3	**Init. Calib. Times**	: 20:52	04:00	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS1_1,4-Dichlorobenzene-d4	1	1	-	0	20	99	0
n-Nitrosodimethylamine	0.745	0.687	-	7.8	20	92	0
Pyridine	1.122	1.127	-	-0.4	20	102	0
2-Fluorophenol	1.071	1.025	-	4.3	20	99	0
Aniline	1.612	1.43	-	11.3	20	90	0
2-Chlorophenol	1.171	1.096	-	6.4	20	95	0
Phenol-d6	1.383	1.255	-	9.3	20	93	0
Phenol	1.528	1.405	-	8	20	91	0
Bis(2-chloroethyl)ether	1.082	0.976	-	9.8	20	94	0
1,3-Dichlorobenzene	1.495	1.397	-	6.6	20	94	0
1,4-Dichlorobenzene	1.511	1.429	-	5.4	20	97	0
1,2-Dichlorobenzene	1.439	1.34	-	6.9	20	96	0
Benzyl alcohol	0.968	0.858	-	11.4	20	91	0
Bis(2-chloroisopropyl)ethe	2.201	1.918	-	12.9	20	87	0
2-Methylphenol	1.041	0.927	-	11	20	89	0
Hexachloroethane	0.551	0.506	-	8.2	20	95	0
n-Nitrosodi-n-propylamine	0.86	0.778	-	9.5	20	93	0
3-Methylphenol/4-Methylphe	1.138	1.009	-	11.3	20	93	0
Nitrobenzene-d5	1.246	1.076	-	13.6	20	87	0
Nitrobenzene	1.226	1.05	-	14.4	20	88	0
Isophorone	2.184	1.994	-	8.7	20	89	0
2-Nitrophenol	0.574	0.511	-	11	20	91	0
2,4-Dimethylphenol	0.896	0.769	-	14.2	20	88	0
Bis(2-chloroethoxy)methane	1.404	1.265	-	9.9	20	92	0
2,4-Dichlorophenol	1.152	1.08	-	6.2	20	91	0
1,2,4-Trichlorobenzene	1.48	1.377	-	7	20	93	0
IS1_Naphthalene-d8	1	1	-	0	20	98	0
Naphthalene	1.012	0.952	-	5.9	20	91	0
Benzoic Acid	5	4.61	-	7.8	20	98	0
4-Chloroaniline	0.129	0.117	-	9.3	20	86	0
Hexachlorobutadiene	0.251	0.245	-	2.4	20	92	0
p-Chloro-m-cresol	0.282	0.273	-	3.2	20	95	0
2-Methylnaphthalene	0.713	0.67	-	6	20	94	0
1-Methylnaphthalene	0.228	0.209	-	8.3	20	89	0
Hexachlorocyclopentadiene	0.234	0.228	-	2.6	20	97	0
2,4,6-Trichlorophenol	0.277	0.272	-	1.8	20	97	0
2,4,5-Trichlorophenol	0.303	0.301	-	0.7	20	95	0
2-Fluorobiphenyl	0.897	0.893	-	0.4	20	98	0
2-Chloronaphthalene	0.76	0.747	-	1.7	20	94	0
2-Nitroaniline	0.198	0.192	-	3	20	93	0
1,4-Dinitrobenzene	0.089	0.091	-	-2.2	20	97	0
1,3-Dinitrobenzene	0.106	0.106	-	0	20	101	0
Dimethyl phthalate	0.86	0.905	-	-5.2	20	102	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Alpha Geoscience	**Lab Number**	: L2410579		
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116		
Instrument ID	: DAKOTA	**Calibration Date**	: 03/02/24 13:55		
Lab File ID	: ABN0302	**Init. Calib. Date(s)**	: 02/28/24	02/29/24	
Sample No	: WG1891492-3	**Init. Calib. Times**	: 20:52	04:00	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Acenaphthylene	1.151	1.148	-	0.3	20	94	0
2,6-Dinitrotoluene	0.168	0.177	-	-5.4	20	101	0
1,2-Dinitrobenzene	0.067	0.067	-	0	20	96	0
IS1_Acenaphthene-d10	1	1	-	0	20	102	0
3-Nitroaniline	0.285	0.272	-	4.6	20	96	0
Acenaphthene	1.021	0.943	-	7.6	20	97	0
2,4-Dinitrophenol	5	4.884	-	2.3	20	113	0
Dibenzofuran	1.765	1.661	-	5.9	20	98	0
2,4-Dinitrotoluene	5	4.661	-	6.8	20	102	0
4-Nitrophenol	0.235	0.213	-	9.4	20	96	0
2,3,5,6-Tetrachlorophenol	0.414	0.401	-	3.1	20	100	0
2,3,4,6-Tetrachlorophenol	0.397	0.386	-	2.8	20	98	0
Diethyl phthalate	1.34	1.259	-	6	20	98	0
Fluorene	1.35	1.242	-	8	20	96	0
4-Chlorophenyl phenyl ethe	0.713	0.674	-	5.5	20	99	0
4-Nitroaniline	0.283	0.271	-	4.2	20	97	0
4,6-Dinitro-o-cresol	5	4.78	-	4.4	20	107	0
NDPA/DPA	1.118	1.067	-	4.6	20	99	0
Azobenzene	1.188	1.078	-	9.3	20	95	0
2,4,6-Tribromophenol	0.263	0.258	-	1.9	20	104	0
4-Bromophenyl phenyl ether	0.455	0.436	-	4.2	20	100	0
Hexachlorobenzene	0.556	0.545	-	2	20	106	0
Pentachlorophenol	0.37	0.328	-	11.4	20	98	0
IS1_Phenanthrene-d10	1	1	-	0	20	107	0
Phenanthrene	1.038	0.93	-	10.4	20	98	0
Anthracene	1.027	0.95	-	7.5	20	101	0
Carbazole	0.968	0.892	-	7.9	20	99	0
Di-n-butylphthalate	1.074	0.936	-	12.8	20	95	0
Fluoranthene	1.291	1.19	-	7.8	20	103	0
Benzidine	0.761	0.686	-	9.9	20	95	0
Pyrene	1.359	1.253	-	7.8	20	100	0
4-Terphenyl-d14	1.045	0.984	-	5.8	20	102	0
Butyl benzyl phthalate	5	4.123	-	17.5	20	94	0
IS1_Chrysene-d12	1	1	-	0	20	110	0
Benzo(a)anthracene	1.368	1.225	-	10.5	20	103	0
3,3'-Dichlorobenzidine	0.514	0.463	-	9.9	20	101	0
Chrysene	1.333	1.17	-	12.2	20	101	0
Bis(2-ethylhexyl)phthalate	5	3.803	-	23.9*	20	91	0
Di-n-octylphthalate	5	3.825	-	23.5*	20	91	0
Benzo(b)fluoranthene	1.411	1.307	-	7.4	20	105	0
Benzo(k)fluoranthene	1.392	1.241	-	10.8	20	100	0
Benzo(a)pyrene	1.302	1.19	-	8.6	20	102	0
IS1_Perylene-d12	1	1	-	0	20	111	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Alpha Geoscience		**Lab Number**	: L2410579	
Project Name	: HUNTINGTON READY MIX		**Project Number**	: 20116	
Instrument ID	: DAKOTA		**Calibration Date**	: 03/02/24 13:55	
Lab File ID	: ABN0302		**Init. Calib. Date(s)**	: 02/28/24	02/29/24
Sample No	: WG1891492-3		**Init. Calib. Times**	: 20:52	04:00
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Indeno(1,2,3-cd)pyrene	1.256	1.111	-	11.5	20	100	0
Dibenzo(a,h)anthracene	1.175	1.083	-	7.8	20	101	0
Benzo(ghi)perylene	1.182	1.046	-	11.5	20	98	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Alpha Geoscience	**Lab Number**	: L2410579		
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116		
Instrument ID	: DAKOTA	**Calibration Date**	: 03/02/24 14:17		
Lab File ID	: APDP0302	**Init. Calib. Date(s)**	: 02/28/24	02/29/24	
Sample No	: WG1891492-4	**Init. Calib. Times**	: 20:52	04:00	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS2_1,4-Dichlorobenzene-d4	1	1	-	0	20	83	0
Benzaldehyde	0.482	0.481	-	0.2	20	84	0
Acetophenone	1.694	1.701	-	-0.4	20	84	0
m-Toluidine	1.213	1.258	-	-3.7	20	84	0
2-Chloroaniline	1.433	1.506	-	-5.1	20	86	0
n-Decane	1.418	1.297	-	8.5	20	78	0
IS2_Naphthalene-d8	1	1	-	0	20	82	0
a-Terpineol	0.299	0.286	-	4.3	20	80	0
3-Chloroaniline	0.132	0.134	-	-1.5	20	84	0
2,6-Dichlorophenol	0.316	0.331	-	-4.7	20	85	0
1-chloro-2-nitrobenzene	0.129	0.133	-	-3.1	20	82	0
Caprolactam	0.165	0.167	-	-1.2	20	90	0
1,2,4,5-Tetrachlorobenzene	0.447	0.488	-	-9.2	20	92	0
Biphenyl	0.891	0.946	-	-6.2	20	86	0
IS2_Acenaphthene-d10	1	1	-	0	20	89	0
Dichloran	0.178	0.183	-	-2.8	20	104	0
Pentachloronitrobenzene	0.19	0.191	-	-0.5	20	90	0
Atrazine	0.384	0.439	-	-14.3	20	102	0
IS2_Phenanthrene-d10	1	1	-	0	20	95	0
Diphenamid	0.446	0.466	-	-4.5	20	99	0
n-Octadecane	0.405	0.344	-	15.1	20	79	0
Parathion	5	4.856	-	2.9	20	97	0
3,3'-Dimethylbenzidine	5	4.708	-	5.8	20	96	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Alpha Geoscience	**Lab Number**	: L2410579		
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116		
Instrument ID	: DAKOTA	**Calibration Date**	: 03/03/24 12:02		
Lab File ID	: ABN0303	**Init. Calib. Date(s)**	: 02/28/24	02/29/24	
Sample No	: WG1891643-3	**Init. Calib. Times**	: 20:52	04:00	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS1_1,4-Dichlorobenzene-d4	1	1	-	0	20	107	0
n-Nitrosodimethylamine	0.745	0.645	-	13.4	20	94	0
Pyridine	1.122	0.997	-	11.1	20	98	0
2-Fluorophenol	1.071	0.942	-	12	20	99	0
Aniline	1.612	1.389	-	13.8	20	95	0
2-Chlorophenol	1.171	1.061	-	9.4	20	99	0
Phenol-d6	1.383	1.242	-	10.2	20	99	0
Phenol	1.528	1.341	-	12.2	20	94	0
Bis(2-chloroethyl)ether	1.082	0.956	-	11.6	20	100	0
1,3-Dichlorobenzene	1.495	1.388	-	7.2	20	102	0
1,4-Dichlorobenzene	1.511	1.41	-	6.7	20	104	0
1,2-Dichlorobenzene	1.439	1.339	-	6.9	20	104	0
Benzyl alcohol	0.968	0.83	-	14.3	20	96	0
Bis(2-chloroisopropyl)ethe	2.201	1.989	-	9.6	20	98	0
2-Methylphenol	1.041	0.923	-	11.3	20	96	0
Hexachloroethane	0.551	0.511	-	7.3	20	104	0
n-Nitrosodi-n-propylamine	0.86	0.745	-	13.4	20	97	0
3-Methylphenol/4-Methylphe	1.138	1.004	-	11.8	20	100	0
Nitrobenzene-d5	1.246	1.096	-	12	20	96	0
Nitrobenzene	1.226	1.062	-	13.4	20	97	0
Isophorone	2.184	1.965	-	10	20	95	0
2-Nitrophenol	0.574	0.531	-	7.5	20	103	0
2,4-Dimethylphenol	0.896	0.791	-	11.7	20	98	0
Bis(2-chloroethoxy)methane	1.404	1.277	-	9	20	100	0
2,4-Dichlorophenol	1.152	1.112	-	3.5	20	102	0
1,2,4-Trichlorobenzene	1.48	1.385	-	6.4	20	102	0
IS1_Naphthalene-d8	1	1	-	0	20	108	0
Naphthalene	1.012	0.947	-	6.4	20	100	0
Benzoic Acid	5	4.525	-	9.5	20	106	0
4-Chloroaniline	0.129	0.113	-	12.4	20	91	0
Hexachlorobutadiene	0.251	0.254	-	-1.2	20	106	0
p-Chloro-m-cresol	0.282	0.255	-	9.6	20	98	0
2-Methylnaphthalene	0.713	0.666	-	6.6	20	104	0
1-Methylnaphthalene	0.228	0.209	-	8.3	20	98	0
Hexachlorocyclopentadiene	0.234	0.232	-	0.9	20	109	0
2,4,6-Trichlorophenol	0.277	0.279	-	-0.7	20	110	0
2,4,5-Trichlorophenol	0.303	0.293	-	3.3	20	102	0
2-Fluorobiphenyl	0.897	0.871	-	2.9	20	106	0
2-Chloronaphthalene	0.76	0.733	-	3.6	20	102	0
2-Nitroaniline	0.198	0.193	-	2.5	20	103	0
1,4-Dinitrobenzene	0.089	0.097	-	-9	20	114	0
1,3-Dinitrobenzene	0.106	0.106	-	0	20	112	0
Dimethyl phthalate	0.86	0.894	-	-4	20	111	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Alpha Geoscience	**Lab Number**	: L2410579		
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116		
Instrument ID	: DAKOTA	**Calibration Date**	: 03/03/24 12:02		
Lab File ID	: ABN0303	**Init. Calib. Date(s)**	: 02/28/24	02/29/24	
Sample No	: WG1891643-3	**Init. Calib. Times**	: 20:52	04:00	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Acenaphthylene	1.151	1.12	-	2.7	20	102	0
2,6-Dinitrotoluene	0.168	0.171	-	-1.8	20	107	0
1,2-Dinitrobenzene	0.067	0.067	-	0	20	106	0
IS1_Acenaphthene-d10	1	1	-	0	20	107	0
3-Nitroaniline	0.285	0.268	-	6	20	100	0
Acenaphthene	1.021	0.949	-	7.1	20	102	0
2,4-Dinitrophenol	5	5.016	-	-0.3	20	122	0
Dibenzofuran	1.765	1.679	-	4.9	20	104	0
2,4-Dinitrotoluene	5	4.86	-	2.8	20	112	0
4-Nitrophenol	0.235	0.219	-	6.8	20	104	0
2,3,5,6-Tetrachlorophenol	0.414	0.414	-	0	20	108	0
2,3,4,6-Tetrachlorophenol	0.397	0.401	-	-1	20	107	0
Diethyl phthalate	1.34	1.326	-	1	20	108	0
Fluorene	1.35	1.306	-	3.3	20	106	0
4-Chlorophenyl phenyl ethe	0.713	0.717	-	-0.6	20	111	0
4-Nitroaniline	0.283	0.272	-	3.9	20	103	0
4,6-Dinitro-o-cresol	5	5.073	-	-1.5	20	120	0
NDPA/DPA	1.118	1.102	-	1.4	20	107	0
Azobenzene	1.188	1.101	-	7.3	20	102	0
2,4,6-Tribromophenol	0.263	0.27	-	-2.7	20	115	0
4-Bromophenyl phenyl ether	0.455	0.471	-	-3.5	20	114	0
Hexachlorobenzene	0.556	0.567	-	-2	20	116	0
Pentachlorophenol	0.37	0.344	-	7	20	108	0
IS1_Phenanthrene-d10	1	1	-	0	20	115	0
Phenanthrene	1.038	0.941	-	9.3	20	106	0
Anthracene	1.027	0.948	-	7.7	20	108	0
Carbazole	0.968	0.879	-	9.2	20	104	0
Di-n-butylphthalate	1.074	1.013	-	5.7	20	110	0
Fluoranthene	1.291	1.18	-	8.6	20	109	0
Benzidine	0.761	0.698	-	8.3	20	103	0
Pyrene	1.359	1.244	-	8.5	20	107	0
4-Terphenyl-d14	1.045	1.018	-	2.6	20	113	0
Butyl benzyl phthalate	5	4.37	-	12.6	20	107	0
IS1_Chrysene-d12	1	1	-	0	20	118	0
Benzo(a)anthracene	1.368	1.233	-	9.9	20	111	0
3,3'-Dichlorobenzidine	0.514	0.464	-	9.7	20	109	0
Chrysene	1.333	1.166	-	12.5	20	109	0
Bis(2-ethylhexyl)phthalate	5	4.35	-	13	20	113	0
Di-n-octylphthalate	5	4.249	-	15	20	111	0
Benzo(b)fluoranthene	1.411	1.304	-	7.6	20	112	0
Benzo(k)fluoranthene	1.392	1.237	-	11.1	20	108	0
Benzo(a)pyrene	1.302	1.17	-	10.1	20	108	0
IS1_Perylene-d12	1	1	-	0	20	120	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Alpha Geoscience		**Lab Number**	: L2410579	
Project Name	: HUNTINGTON READY MIX		**Project Number**	: 20116	
Instrument ID	: DAKOTA		**Calibration Date**	: 03/03/24 12:02	
Lab File ID	: ABN0303		**Init. Calib. Date(s)**	: 02/28/24	02/29/24
Sample No	: WG1891643-3		**Init. Calib. Times**	: 20:52	04:00
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Indeno(1,2,3-cd)pyrene	1.256	1.15	-	8.4	20	112	0
Dibenzo(a,h)anthracene	1.175	1.059	-	9.9	20	107	0
Benzo(ghi)perylene	1.182	1.023	-	13.5	20	104	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Alpha Geoscience	**Lab Number**	: L2410579		
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116		
Instrument ID	: DAKOTA	**Calibration Date**	: 03/03/24 12:24		
Lab File ID	: APDP0303	**Init. Calib. Date(s)**	: 02/28/24	02/29/24	
Sample No	: WG1891643-4	**Init. Calib. Times**	: 20:52	04:00	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS2_1,4-Dichlorobenzene-d4	1	1	-	0	20	108	0
Benzaldehyde	0.482	0.387	-	19.7	20	88	0
Acetophenone	1.694	1.391	-	17.9	20	89	0
m-Toluidine	1.213	1.007	-	17	20	87	0
2-Chloroaniline	1.433	1.222	-	14.7	20	91	0
n-Decane	1.418	1.134	-	20	20	89	0
IS2_Naphthalene-d8	1	1	-	0	20	109	0
a-Terpineol	0.299	0.24	-	19.7	20	89	0
3-Chloroaniline	0.132	0.104	-	21.2*	20	88	0
2,6-Dichlorophenol	0.316	0.265	-	16.1	20	91	0
1-chloro-2-nitrobenzene	0.129	0.11	-	14.7	20	91	0
Caprolactam	0.165	0.132	-	20	20	96	0
1,2,4,5-Tetrachlorobenzene	0.447	0.389	-	13	20	98	0
Biphenyl	0.891	0.759	-	14.8	20	92	0
IS2_Acenaphthene-d10	1	1	-	0	20	120	0
Dichloran	0.178	0.145	-	18.5	20	112	0
Pentachloronitrobenzene	0.19	0.157	-	17.4	20	101	0
Atrazine	0.384	0.315	-	18	20	99	0
IS2_Phenanthrene-d10	1	1	-	0	20	128	0
Diphenamid	0.446	0.359	-	19.5	20	103	0
n-Octadecane	0.405	0.295	-	27.2*	20	92	0
Parathion	5	4.059	-	18.8	20	107	0
3,3'-Dimethylbenzidine	5	3.483	-	30.3*	20	93	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Alpha Geoscience	**Lab Number**	: L2410579		
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116		
Instrument ID	: SV106	**Calibration Date**	: 03/05/24 00:10		
Lab File ID	: ABN0304N	**Init. Calib. Date(s)**	: 09/02/23	09/03/23	
Sample No	: WG1891342-3	**Init. Calib. Times**	: 12:13	00:52	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS1_1,4-Dichlorobenzene-d4	1	1	-	0	20	103	0
n-Nitrosodimethylamine	0.677	0.721	-	-6.5	20	119	0
Pyridine	1.151	1.068	-	7.2	20	103	0
2-Fluorophenol	1.116	1.094	-	2	20	113	0
Aniline	1.893	1.573	-	16.9	20	94	0
2-Chlorophenol	1.274	1.209	-	5.1	20	105	0
Phenol-d6	1.437	1.427	-	0.7	20	110	0
Phenol	1.521	1.456	-	4.3	20	109	0
Bis(2-chloroethyl)ether	1.222	1.164	-	4.7	20	107	0
1,3-Dichlorobenzene	1.461	1.381	-	5.5	20	106	0
1,4-Dichlorobenzene	1.503	1.391	-	7.5	20	106	0
1,2-Dichlorobenzene	1.431	1.353	-	5.5	20	108	0
Benzyl alcohol	1.074	1.038	-	3.4	20	108	0
Bis(2-chloroisopropyl)ethe	1.8	1.822	-	-1.2	20	114	0
2-Methylphenol	1.138	1.029	-	9.6	20	104	0
Hexachloroethane	0.586	0.551	-	6	20	106	0
n-Nitrosodi-n-propylamine	0.923	0.844	-	8.6	20	104	0
3-Methylphenol/4-Methylphe	1.193	1.093	-	8.4	20	103	0
Nitrobenzene-d5	1.303	1.37	-	-5.1	20	121	0
Nitrobenzene	1.295	1.316	-	-1.6	20	114	0
Isophorone	2.478	2.297	-	7.3	20	106	0
2-Nitrophenol	0.518	0.641	-	-23.7*	20	141	0
2,4-Dimethylphenol	1.281	0.762	-	40.5*	20	65	0
Bis(2-chloroethoxy)methane	1.552	1.492	-	3.9	20	108	0
2,4-Dichlorophenol	1.076	1.1	-	-2.2	20	111	0
1,2,4-Trichlorobenzene	1.235	1.26	-	-2	20	117	0
IS1_Naphthalene-d8	1	1	-	0	20	102	0
Naphthalene	1.008	0.915	-	9.2	20	105	0
Benzoic Acid	5	5.4	-	-8	20	132	0
4-Chloroaniline	0.132	0.126	-	4.5	20	108	0
Hexachlorobutadiene	0.206	0.199	-	3.4	20	113	0
p-Chloro-m-cresol	0.291	0.28	-	3.8	20	107	0
2-Methylnaphthalene	0.642	0.627	-	2.3	20	112	0
1-Methylnaphthalene	0.241	0.222	-	7.9	20	104	0
Hexachlorocyclopentadiene	0.219	0.181	-	17.4	20	95	0
2,4,6-Trichlorophenol	0.209	0.224	-	-7.2	20	125	0
2,4,5-Trichlorophenol	0.224	0.241	-	-7.6	20	126	0
2-Fluorobiphenyl	0.764	0.759	-	0.7	20	115	0
2-Chloronaphthalene	0.669	0.628	-	6.1	20	107	0
2-Nitroaniline	5	5.094	-	-1.9	20	124	0
1,4-Dinitrobenzene	5	6.371	-	-27.4*	20	172	0
1,3-Dinitrobenzene	5	6.103	-	-22.1*	20	153	0
Dimethyl phthalate	0.787	0.77	-	2.2	20	111	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Alpha Geoscience	**Lab Number**	: L2410579		
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116		
Instrument ID	: SV106	**Calibration Date**	: 03/05/24 00:10		
Lab File ID	: ABN0304N	**Init. Calib. Date(s)**	: 09/02/23	09/03/23	
Sample No	: WG1891342-3	**Init. Calib. Times**	: 12:13	00:52	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Acenaphthylene	1.077	0.988	-	8.3	20	106	0
2,6-Dinitrotoluene	5	5.461	-	-9.2	20	135	0
1,2-Dinitrobenzene	0.063	0.073	-	-15.9	20	133	0
IS1_Acenaphthene-d10	1	1	-	0	20	115	0
3-Nitroaniline	0.286	0.28	-	2.1	20	124	0
Acenaphthene	1.131	0.933	-	17.5	20	108	0
2,4-Dinitrophenol	5	6.503	-	-30.1*	20	185	0
Dibenzofuran	1.69	1.493	-	11.7	20	114	0
2,4-Dinitrotoluene	5	5.436	-	-8.7	20	151	0
4-Nitrophenol	5	4.917	-	1.7	20	136	0
2,3,5,6-Tetrachlorophenol	0.325	0.346	-	-6.5	20	134	0
2,3,4,6-Tetrachlorophenol	0.337	0.329	-	2.4	20	124	0
Diethyl phthalate	1.415	1.233	-	12.9	20	109	0
Fluorene	1.336	1.216	-	9	20	116	0
4-Chlorophenyl phenyl ethe	0.637	0.602	-	5.5	20	123	0
4-Nitroaniline	0.289	0.279	-	3.5	20	116	0
4,6-Dinitro-o-cresol	5	6.94	-	-38.8*	20	219	0
NDPA/DPA	1.124	1.019	-	9.3	20	114	0
Azobenzene	1.319	1.098	-	16.8	20	106	0
2,4,6-Tribromophenol	0.184	0.181	-	1.6	20	123	0
4-Bromophenyl phenyl ether	0.371	0.345	-	7	20	120	0
Hexachlorobenzene	0.432	0.385	-	10.9	20	118	0
Pentachlorophenol	5	5.004	-	-0.1	20	138	0
IS1_Phenanthrene-d10	1	1	-	0	20	126	0
Phenanthrene	1.089	0.888	-	18.5	20	115	0
Anthracene	1.084	0.907	-	16.3	20	117	0
Carbazole	0.991	0.843	-	14.9	20	117	0
Di-n-butylphthalate	1.269	1.014	-	20.1*	20	110	0
Fluoranthene	1.165	1.061	-	8.9	20	129	0
Benzidine	0.77	0.575	-	25.3*	20	103	0
Pyrene	1.233	1.095	-	11.2	20	126	0
4-Terphenyl-d14	0.877	0.781	-	10.9	20	124	0
Butyl benzyl phthalate	0.541	0.434	-	19.8	20	111	0
IS1_Chrysene-d12	1	1	-	0	20	126	0
Benzo(a)anthracene	1.326	1.154	-	13	20	122	0
3,3'-Dichlorobenzidine	0.472	0.41	-	13.1	20	118	0
Chrysene	1.231	1.106	-	10.2	20	127	0
Bis(2-ethylhexyl)phthalate	0.889	0.718	-	19.2	20	109	0
Di-n-octylphthalate	1.499	1.216	-	18.9	20	109	0
Benzo(b)fluoranthene	1.266	1.145	-	9.6	20	128	0
Benzo(k)fluoranthene	1.214	1.016	-	16.3	20	110	0
Benzo(a)pyrene	1.083	1.033	-	4.6	20	131	0
IS1_Perylene-d12	1	1	-	0	20	124	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Alpha Geoscience		**Lab Number**	: L2410579	
Project Name	: HUNTINGTON READY MIX		**Project Number**	: 20116	
Instrument ID	: SV106		**Calibration Date**	: 03/05/24 00:10	
Lab File ID	: ABN0304N		**Init. Calib. Date(s)**	: 09/02/23	09/03/23
Sample No	: WG1891342-3		**Init. Calib. Times**	: 12:13	00:52
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Indeno(1,2,3-cd)pyrene	0.935	0.943	-	-0.9	20	141	0
Dibenzo(a,h)anthracene	0.999	0.919	-	8	20	124	0
Benzo(ghi)perylene	0.991	0.863	-	12.9	20	119	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Alpha Geoscience	**Lab Number**	: L2410579		
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116		
Instrument ID	: SV106	**Calibration Date**	: 03/05/24 00:34		
Lab File ID	: AP90304N	**Init. Calib. Date(s)**	: 09/02/23	09/03/23	
Sample No	: WG1891342-4	**Init. Calib. Times**	: 12:13	00:52	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS2_1,4-Dichlorobenzene-d4	1	1	-	0	20	102	0
Benzaldehyde	0.928	0.931	-	-0.3	20	73	0
Acetophenone	1.994	1.601	-	19.7	20	63	0
m-Toluidine	1.55	1.54	-	0.6	20	72	0
2-Chloroaniline	1.67	1.439	-	13.8	20	67	0
IS2_Naphthalene-d8	1	1	-	0	20	98	0
a-Terpineol	0.289	0.281	-	2.8	20	73	0
3-Chloroaniline	0.15	0.147	-	2	20	71	0
2,6-Dichlorophenol	0.277	0.267	-	3.6	20	69	0
1-chloro-2-nitrobenzene	0.131	0.137	-	-4.6	20	77	0
Caprolactam	0.147	0.162	-	-10.2	20	79	0
1,2,4,5-Tetrachlorobenzene	0.348	0.343	-	1.4	20	75	0
Biphenyl	0.856	0.809	-	5.5	20	71	0
IS2_Acenaphthene-d10	1	1	-	0	20	111	0
Dichloran	5	5.793	-	-15.9	20	104	0
Pentachloronitrobenzene	5	5.197	-	-3.9	20	88	0
IS2_Phenanthrene-d10	1	1	-	0	20	122	0
Diphenamid	0.508	0.417	-	17.9	20	73	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Alpha Geoscience		**Lab Number**	: L2410579	
Project Name	: HUNTINGTON READY MIX		**Project Number**	: 20116	
Instrument ID	: SV106		**Calibration Date**	: 03/05/24 00:58	
Lab File ID	: ADP0304N		**Init. Calib. Date(s)**	: 09/02/23	09/03/23
Sample No	: WG1891342-5		**Init. Calib. Times**	: 12:13	00:52
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS3_1,4-Dichlorobenzene-d4	1	1	-	0	20	99	0
n-Decane	1.347	1.408	-	-4.5	20	105	0
IS3_Acenaphthene-d10	1	1	-	0	20	107	0
Atrazine	0.345	0.326	-	5.5	20	102	0
IS3_Phenanthrene-d10	1	1	-	0	20	120	0
n-Octadecane	0.46	0.379	-	17.6	20	98	0
Parathion	0.094	0.083	-	11.7	20	117	0
3,3'-Dimethylbenzidine	5	4.078	-	18.4	20	105	0

*** Value outside of QC limits.**

Evaluate Continuing Calibration Report

Data Path : I:\8270\Dakota\240303alvi\
Data File : ABN0303.D
Acq On : 3 Mar 2024 12:02 pm
Operator : Dakota:sz
Sample : wg1891643-3,32,,ABN 10360 HNY0222A
Misc : wg1891643,,ical20900
ALS Vial : 96 Sample Multiplier: 1

Quant Time: Mar 03 13:21:03 2024
Quant Method : I:\8270\dakota\240303alvi\FS240228LVIDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sun Mar 03 13:21:16 2024
Response via : Initial Calibration

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

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	IS1_1,4-Dichlorobenzene-d4		1.000	1.000	0.0	107	0.00
2	t	n-Nitrosodimethylamine		0.745	0.645	13.4	94	0.00
3	t	Pyridine		1.122	0.997	11.1	98	0.00
4	S	2-Fluorophenol		1.071	0.942	12.0	99	0.00
5	T	Aniline		1.612	1.389	13.8	95	0.00
6	t	2-Chlorophenol		1.171	1.061	9.4	99	0.00
7	S	Phenol-d6		1.383	1.242	10.2	99	0.00
8	T	Phenol		1.528	1.341	12.2	94	0.00
9	T	Bis(2-chloroethyl)ether		1.082	0.956	11.6	100	0.00
10	T	1,3-Dichlorobenzene		1.495	1.388	7.2	102	0.00
11	T	1,4-Dichlorobenzene		1.511	1.410	6.7	104	0.00
12	T	1,2-Dichlorobenzene		1.439	1.339	6.9	104	0.00
13	t	Benzyl alcohol		0.968	0.830	14.3	96	0.00
14	T	Bis(2-chloroisopropyl)ether		2.201	1.989	9.6	98	0.00
15	T	2-Methylphenol		1.041	0.923	11.3	96	0.00
16	T	Hexachloroethane		0.551	0.511	7.3	104	0.00
17	T	n-Nitrosodi-n-propylamine		0.860	0.745	13.4	97	0.00
18	T	3-Methylphenol/4-Methylphen		1.138	1.004	11.8	100	0.00
19	S	Nitrobenzene-d5		1.246	1.096	12.0	96	0.00
20	T	Nitrobenzene		1.226	1.062	13.4	97	0.00
21	T	Isophorone		2.184	1.965	10.0	95	0.00
22	T	2-Nitrophenol		0.574	0.531	7.5	103	0.00
23	T	2,4-Dimethylphenol		0.896	0.791	11.7	98	0.00
24	T	Bis(2-chloroethoxy)methane		1.404	1.277	9.0	100	0.00
25	T	2,4-Dichlorophenol		1.152	1.112	3.5	102	0.00
26	T	1,2,4-Trichlorobenzene		1.480	1.385	6.4	102	0.00
33	I	IS1_Naphthalene-d8		1.000	1.000	0.0	108	0.00
34	T	Naphthalene		1.012	0.947	6.4	100	0.00
35	T	Benzoic Acid	*	5.000	4.525	9.5	106	0.00
36	T	4-Chloroaniline		0.129	0.113	12.4	91	0.00
37	T	Hexachlorobutadiene		0.251	0.254	-1.2	106	0.00
38	T	p-Chloro-m-cresol		0.282	0.255	9.6	98	0.00
39	T	2-Methylnaphthalene		0.713	0.666	6.6	104	0.00
40	T	1-Methylnaphthalene		0.228	0.209	8.3	98	0.00
41	T	Hexachlorocyclopentadiene		0.234	0.232	0.9	109	0.00
42	T	2,4,6-Trichlorophenol		0.277	0.279	-0.7	110	0.00
43	T	2,4,5-Trichlorophenol		0.303	0.293	3.3	102	0.00
44	S	2-Fluorobiphenyl		0.897	0.871	2.9	106	0.00

Data Path : I:\8270\Dakota\240303alvi\
Data File : ABN0303.D
Acq On : 3 Mar 2024 12:02 pm
Operator : Dakota:sz
Sample : wg1891643-3,32,,ABN 10360 HNY0222A
Misc : wg1891643,,ical20900
ALS Vial : 96 Sample Multiplier: 1

Quant Time: Mar 03 13:21:03 2024
Quant Method : I:\8270\dakota\240303alvi\FS240228LVIDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sun Mar 03 13:21:16 2024
Response via : Initial Calibration

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

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(min)
45	T	2-Chloronaphthalene		0.760	0.733	3.6	102	0.00
46	T	2-Nitroaniline		0.198	0.193	2.5	103	0.00
47	T	1,4-Dinitrobenzene		0.089	0.097	-9.0	114	0.00
48	T	1,3-Dinitrobenzene		0.106	0.106	0.0	112	0.00
49	T	Dimethyl phthalate		0.860	0.894	-4.0	111	0.00
50	T	Acenaphthylene		1.151	1.120	2.7	102	0.00
51	T	2,6-Dinitrotoluene		0.168	0.171	-1.8	107	0.00
52	T	1,2-Dinitrobenzene		0.067	0.067	0.0	106	0.00
61	I	IS1_Acenaphthene-d10		1.000	1.000	0.0	107	0.00
62	T	3-Nitroaniline		0.285	0.268	6.0	100	0.00
63	T	Acenaphthene		1.021	0.949	7.1	102	0.00
64	T	2,4-Dinitrophenol	*	5.000	5.016	-0.3	122	0.00
65	T	Dibenzofuran		1.765	1.679	4.9	104	0.00
66	T	2,4-Dinitrotoluene	*	5.000	4.860	2.8	112	0.00
67	T	4-Nitrophenol		0.235	0.219	6.8	104	0.00
68	T	2,3,5,6-Tetrachlorophenol		0.414	0.414	0.0	108	0.00
69	T	2,3,4,6-Tetrachlorophenol		0.397	0.401	-1.0	107	0.00
70	T	Diethyl phthalate		1.340	1.326	1.0	108	0.00
71	T	Fluorene		1.350	1.306	3.3	106	0.00
72	T	4-Chlorophenyl phenyl ether		0.713	0.717	-0.6	111	0.00
73	T	4-Nitroaniline		0.283	0.272	3.9	103	0.00
74	T	4,6-Dinitro-o-cresol	*	5.000	5.073	-1.5	120	0.00
75	T	NDPA/DPA		1.118	1.102	1.4	107	0.00
76	T	Azobenzene		1.188	1.101	7.3	102	0.00
77	S	2,4,6-Tribromophenol		0.263	0.270	-2.7	115	0.00
78	T	4-Bromophenyl phenyl ether		0.455	0.471	-3.5	114	0.00
79	T	Hexachlorobenzene		0.556	0.567	-2.0	116	0.00
80	T	Pentachlorophenol		0.370	0.344	7.0	108	0.00
85	I	IS1_Phenanthrene-d10		1.000	1.000	0.0	115	0.00
86	T	Phenanthrene		1.038	0.941	9.3	106	0.00
87	T	Anthracene		1.027	0.948	7.7	108	0.00
88	T	Carbazole		0.968	0.879	9.2	104	0.00
89	T	Di-n-butylphthalate		1.074	1.013	5.7	110	0.00
90	T	Fluoranthene		1.291	1.180	8.6	109	0.00
91	T	Benzidine		0.761	0.698	8.3	103	0.00
92	T	Pyrene		1.359	1.244	8.5	107	0.00
93	S	4-Terphenyl-d14		1.045	1.018	2.6	113	0.00

Evaluate Continuing Calibration Report

Data Path : I:\8270\Dakota\240303alvi\
Data File : ABN0303.D
Acq On : 3 Mar 2024 12:02 pm
Operator : Dakota:sz
Sample : wg1891643-3,32,,ABN 10360 HNY0222A
Misc : wg1891643,,ical20900
ALS Vial : 96 Sample Multiplier: 1

Quant Time: Mar 03 13:21:03 2024
Quant Method : I:\8270\dakota\240303alvi\FS240228LVIDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sun Mar 03 13:21:16 2024
Response via : Initial Calibration

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

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(min)
94	T	Butyl benzyl phthalate	*	5.000	4.370	12.6	107	0.00
100	I	IS1_Chrysene-d12		1.000	1.000	0.0	118	0.00
101	T	Benzo(a)anthracene		1.368	1.233	9.9	111	0.00
102	T	3,3'-Dichlorobenzidine		0.514	0.464	9.7	109	0.00
103	T	Chrysene		1.333	1.166	12.5	109	0.00
104	T	Bis(2-ethylhexyl)phthalate	*	5.000	4.350	13.0	113	0.00
105	T	Di-n-octylphthalate	*	5.000	4.249	15.0	111	0.00
106	T	Benzo(b)fluoranthene		1.411	1.304	7.6	112	0.00
107	T	Benzo(k)fluoranthene		1.392	1.237	11.1	108	0.00
108	T	Benzo(a)pyrene		1.302	1.170	10.1	108	0.00
109	I	IS1_Perylene-d12		1.000	1.000	0.0	120	0.00
110	T	Indeno(1,2,3-cd)pyrene		1.256	1.150	8.4	112	0.00
111	T	Dibenzo(a,h)anthracene		1.175	1.059	9.9	107	0.00
112	T	Benzo(ghi)perylene		1.182	1.023	13.5	104	0.00

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240303alvi\
Data File : ABN0303.D
Acq On : 3 Mar 2024 12:02 pm
Operator : Dakota:sz
Sample : wg1891643-3,32,,ABN 10360 HNY0222A
Misc : wg1891643,,ical20900
ALS Vial : 96 Sample Multiplier: 1

Quant Time: Mar 03 13:21:03 2024
Quant Method : I:\8270\dakota\240303alvi\FS240228LVIDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sun Mar 03 13:21:16 2024
Response via : Initial Calibration

Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) IS1_1,4-Dichlorobenzen...	4.764	152	26057	4.000	ug/ml		0.00
33) IS1_Naphthalene-d8	5.998	136	90237	4.000	ug/ml	#	0.00
61) IS1_Acenaphthene-d10	7.701	164	59066	4.000	ug/ml		0.00
85) IS1_Phenanthrene-d10	9.131	188	135391	4.000	ug/ml		0.00
100) IS1_Chrysene-d12	11.763	240	147630	4.000	ug/ml		0.00
109) IS1_Perylene-d12	13.224	264	173682	4.000	ug/ml		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	3.502	112	30669	4.397	ug/ml		0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 87.94%				
7) Phenol-d6	4.444	99	40454	4.489	ug/ml		0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 89.78%				
19) Nitrobenzene-d5	5.305	82	35707	4.398	ug/ml		0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 175.92%#				
44) 2-Fluorobiphenyl	7.064	172	98298	4.860	ug/ml		0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 194.40%#				
77) 2,4,6-Tribromophenol	8.466	330	19961	5.145	ug/ml		0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 102.90%				
93) 4-Terphenyl-d14	10.704	244	172334	4.873	ug/ml		0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 194.92%#				
Target Compounds							Qvalue
2) n-Nitrosodimethylamine	2.135	74	20993	4.326	ug/ml	#	86
3) Pyridine	2.190	79	32489M1	4.443	ug/ml		
5) Aniline	4.450	93	45230	4.306	ug/ml	#	42
6) 2-Chlorophenol	4.562	128	34547	4.529	ug/ml		94
8) Phenol	4.456	94	43694	4.390	ug/ml	#	52
9) Bis(2-chloroethyl)ether	4.528	93	31148	4.419	ug/ml		98
10) 1,3-Dichlorobenzene	4.708	146	45215	4.644	ug/ml		95
11) 1,4-Dichlorobenzene	4.783	146	45914	4.664	ug/ml		95
12) 1,2-Dichlorobenzene	4.929	146	43625	4.655	ug/ml		93
13) Benzyl alcohol	4.916	79	27042	4.288	ug/ml		98
14) Bis(2-chloroisopropyl)...	5.056	45	64777	4.517	ug/ml	#	73
15) 2-Methylphenol	5.044	108	30051	4.430	ug/ml		97
16) Hexachloroethane	5.255	117	16630	4.634	ug/ml	#	45
17) n-Nitrosodi-n-propylamine	5.184	70	24252	4.327	ug/ml	#	90
18) 3-Methylphenol/4-Methy...	5.199	108	32697	4.412	ug/ml		99
20) Nitrobenzene	5.323	77	34600	4.331	ug/ml		98
21) Isophorone	5.563	82	64008	4.499	ug/ml		95
22) 2-Nitrophenol	5.637	139	17288	4.624	ug/ml		92

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240303alvi\
Data File : ABN0303.D
Acq On : 3 Mar 2024 12:02 pm
Operator : Dakota:sz
Sample : wg1891643-3,32,,ABN 10360 HNY0222A
Misc : wg1891643,,ical20900
ALS Vial : 96 Sample Multiplier: 1

Quant Time: Mar 03 13:21:03 2024
Quant Method : I:\8270\dakota\240303alvi\FS240228LVIDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sun Mar 03 13:21:16 2024
Response via : Initial Calibration

Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) 2,4-Dimethylphenol	5.712	107	25763	4.415	ug/ml	94
24) Bis(2-chloroethoxy)met...	5.796	93	41595	4.548	ug/ml#	96
25) 2,4-Dichlorophenol	5.877	162	36235	4.830	ug/ml#	92
26) 1,2,4-Trichlorobenzene	5.954	180	45119	4.680	ug/ml	96
34) Naphthalene	6.020	128	106869	4.679	ug/ml	100
35) Benzoic Acid	5.777	105	18725	4.525	ug/ml	94
36) 4-Chloroaniline	6.088	65	12704	4.356	ug/ml	84
37) Hexachlorobutadiene	6.166	225	28679	5.056	ug/ml	99
38) p-Chloro-m-cresol	6.582	107	28791	4.519	ug/ml	91
39) 2-Methylnaphthalene	6.697	142	75140	4.673	ug/ml	98
40) 1-Methylnaphthalene	6.790	115	23543	4.583	ug/ml	90
41) Hexachlorocyclopentadiene	6.865	237	26202	4.955	ug/ml	98
42) 2,4,6-Trichlorophenol	6.983	196	31509	5.041	ug/ml	97
43) 2,4,5-Trichlorophenol	7.014	196	33089	4.839	ug/ml	98
45) 2-Chloronaphthalene	7.163	162	82710	4.823	ug/ml#	92
46) 2-Nitroaniline	7.272	138	21751	4.875	ug/ml#	81
47) 1,4-Dinitrobenzene	7.403	168	10975M3	5.464	ug/ml	
48) 1,3-Dinitrobenzene	7.477	168	11988	5.001	ug/ml#	1
49) Dimethyl phthalate	7.468	163	100827	5.200	ug/ml#	97
50) Acenaphthylene	7.558	152	126373	4.869	ug/ml	99
51) 2,6-Dinitrotoluene	7.515	165	19280	5.080	ug/ml#	76
52) 1,2-Dinitrobenzene	7.555	168	7592	5.000	ug/ml#	1
62) 3-Nitroaniline	7.670	138	19799	4.703	ug/ml#	90
63) Acenaphthene	7.732	154	70047	4.646	ug/ml	92
64) 2,4-Dinitrophenol	7.770	184	11329	5.016	ug/ml#	79
65) Dibenzofuran	7.900	168	123980	4.757	ug/ml	89
66) 2,4-Dinitrotoluene	7.900	165	27286	4.860	ug/ml	88
67) 4-Nitrophenol	7.857	65	16174	4.654	ug/ml	93
68) 2,3,5,6-Tetrachlorophenol	7.990	232	30565	4.997	ug/ml	99
69) 2,3,4,6-Tetrachlorophenol	8.031	232	29634	5.058	ug/ml	97
70) Diethyl phthalate	8.158	149	97918	4.950	ug/ml	99
71) Fluorene	8.230	166	96457	4.837	ug/ml	93
72) 4-Chlorophenyl phenyl ...	8.248	204	52967	5.027	ug/ml#	81
73) 4-Nitroaniline	8.258	138	20104	4.819	ug/ml	88
74) 4,6-Dinitro-o-cresol	8.292	198	16240	5.073	ug/ml#	60
75) NDPA/DPA	8.363	169	81339	4.928	ug/ml	92
76) Azobenzene	8.397	77	81259	4.631	ug/ml	97
78) 4-Bromophenyl phenyl e...	8.714	248	34780	5.175	ug/ml#	78
79) Hexachlorobenzene	8.770	284	41869	5.097	ug/ml#	77
80) Pentachlorophenol	8.963	266	25388	4.645	ug/ml	96
86) Phenanthrene	9.153	178	159266	4.532	ug/ml	99

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240303alvi\
Data File : ABN0303.D
Acq On : 3 Mar 2024 12:02 pm
Operator : Dakota:sz
Sample : wg1891643-3,32,,ABN 10360 HNY0222A
Misc : wg1891643,,ical20900
ALS Vial : 96 Sample Multiplier: 1

Quant Time: Mar 03 13:21:03 2024
Quant Method : I:\8270\dakota\240303alvi\FS240228LVIDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sun Mar 03 13:21:16 2024
Response via : Initial Calibration

Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
87)	Anthracene	9.202	178	160395	4.613	ug/ml	100
88)	Carbazole	9.367	167	148794	4.539	ug/ml	100
89)	Di-n-butylphthalate	9.749	149	171359	4.712	ug/ml#	98
90)	Fluoranthene	10.303	202	199747	4.572	ug/ml#	90
91)	Benzidine	10.452	184	118064	4.586	ug/ml#	93
92)	Pyrene	10.517	202	210590	4.577	ug/ml	99
94)	Butyl benzyl phthalate	11.229	149	74496	4.370	ug/ml#	84
101)	Benzo(a)anthracene	11.751	228	227498	4.506	ug/ml	100
102)	3,3'-Dichlorobenzidine	11.751	252	85611	4.512	ug/ml#	95
103)	Chrysene	11.788	228	215178	4.372	ug/ml	100
104)	Bis(2-ethylhexyl)phtha...	11.863	149	120492	4.350	ug/ml#	92
105)	Di-n-octylphthalate	12.537	149	197397	4.249	ug/ml#	76
106)	Benzo(b)fluoranthene	12.858	252	240603M3	4.620	ug/ml	
107)	Benzo(k)fluoranthene	12.882	252	228217	4.441	ug/ml#	92
108)	Benzo(a)pyrene	13.168	252	215894	4.493	ug/ml#	91
110)	Indeno(1,2,3-cd)pyrene	14.175	276	249715M6	4.577	ug/mL	
111)	Dibenzo(a,h)anthracene	14.197	278	229865	4.507	ug/ml#	87
112)	Benzo(ghi)perylene	14.393	276	222070	4.327	ug/ml#	83

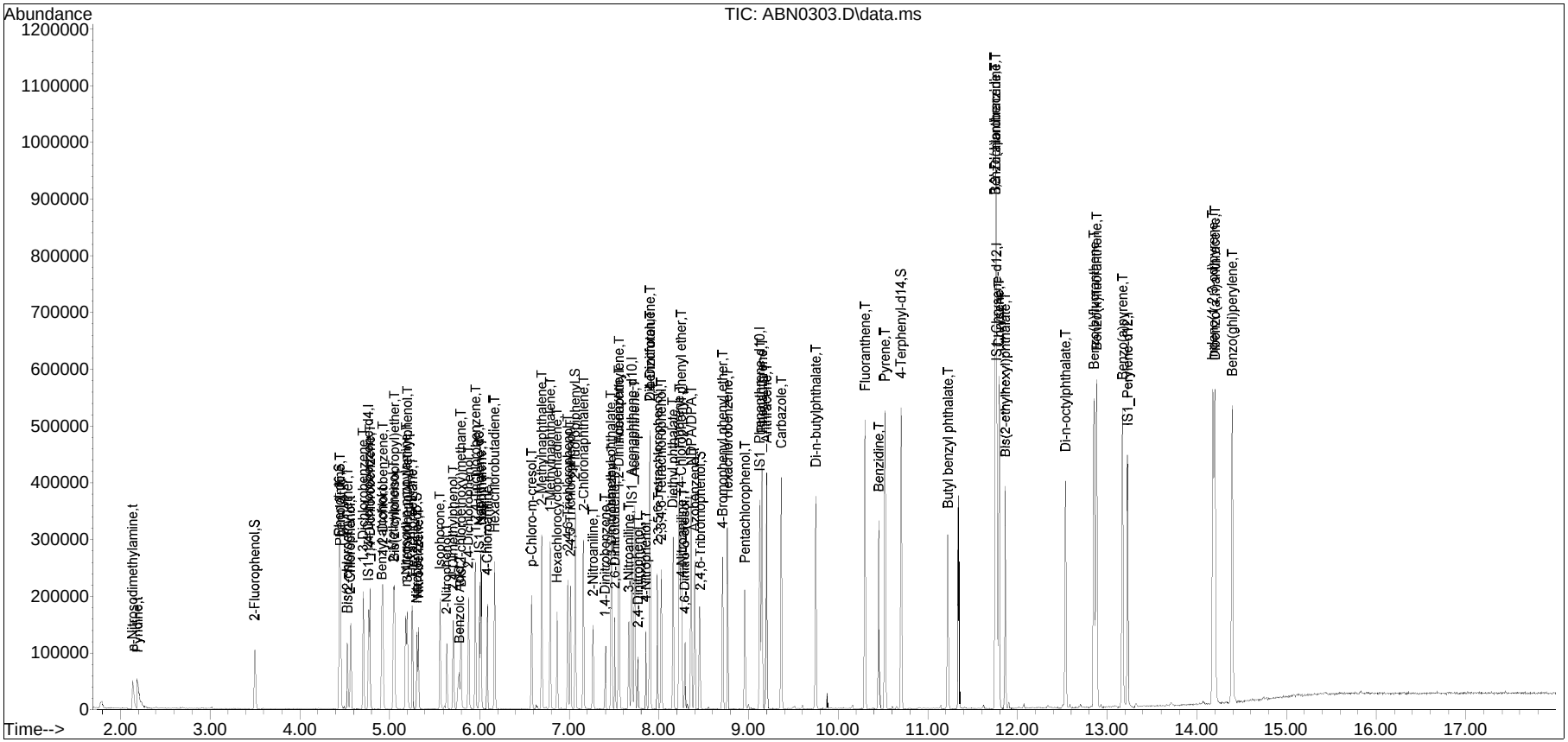
(#) = qualifier out of range (m) = manual integration (+) = signals summed

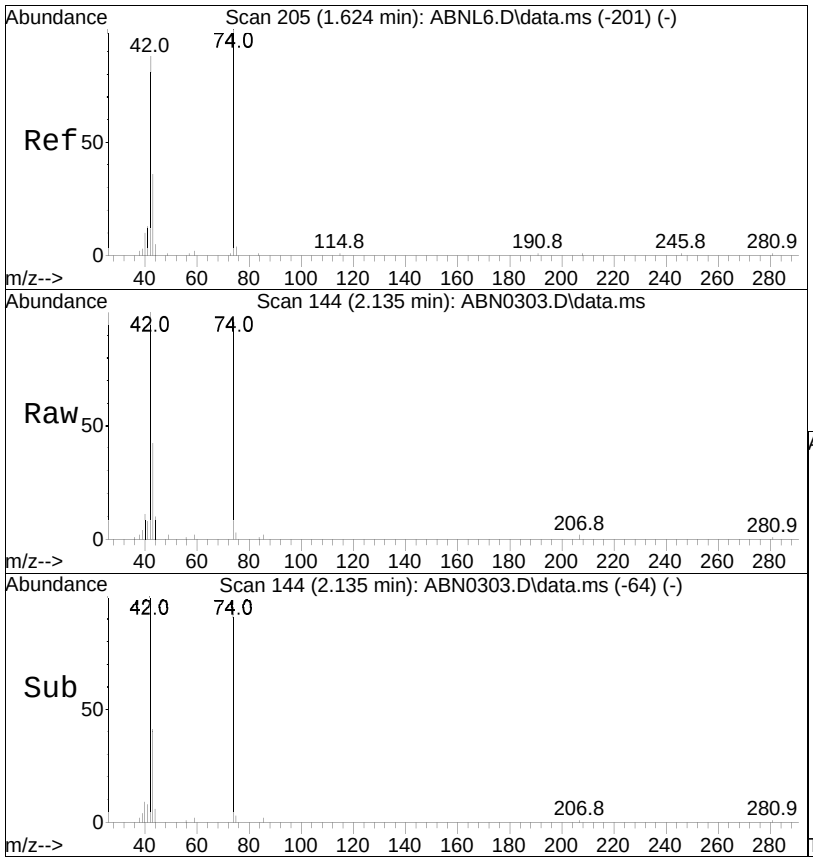
Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240303alvi\
Data File : ABN0303.D
Acq On : 3 Mar 2024 12:02 pm
Operator : Dakota:sz
Sample : wg1891643-3,32,,ABN 10360 HNY0222A
Misc : wg1891643,,ical20900
ALS Vial : 96 Sample Multiplier: 1

Quant Time: Mar 03 13:21:03 2024
Quant Method : I:\8270\dakota\240303alvi\FS240228LVIDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sun Mar 03 13:21:16 2024
Response via : Initial Calibration

Sub List : ABNical - ABN ical sublist

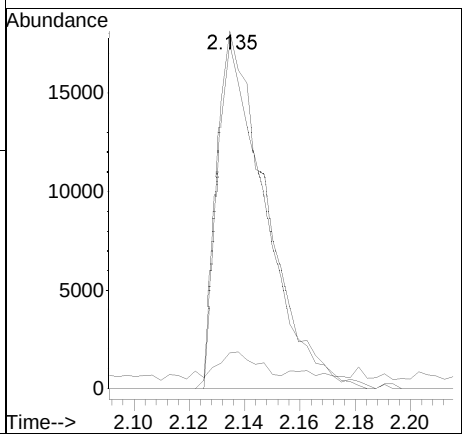


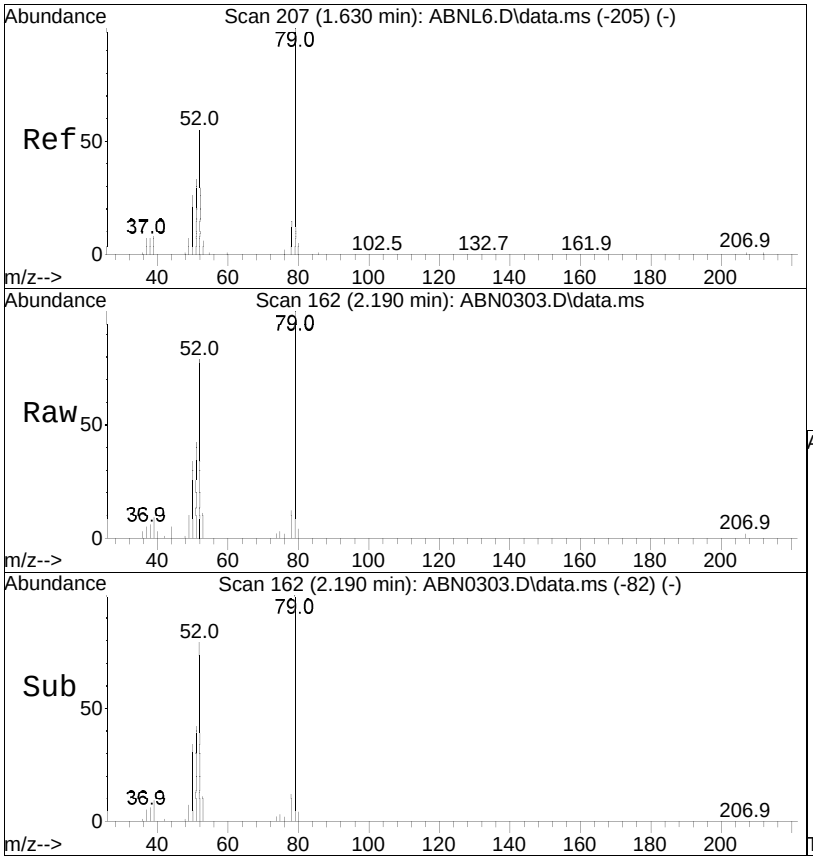


#2
n-Nitrosodimethylamine
Concen: 4.33 ug/ml
RT: 2.135 min Scan# 144
Delta R.T. 0.000 min
Lab File: ABN0303.D
Acq: 3 Mar 2024 12:02 pm

Tgt Ion: 74 Resp: 20993

Ion	Ratio	Lower	Upper
74	100		
42	108.2	100.0	150.0
44	6.6	6.7	10.1#

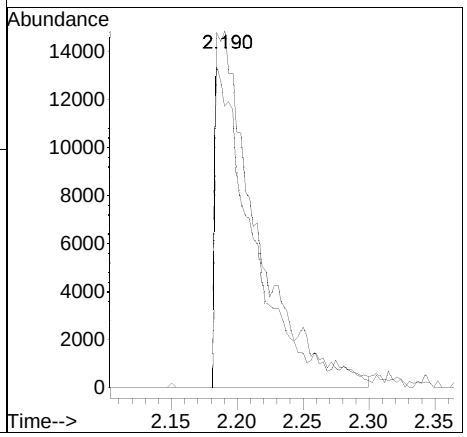


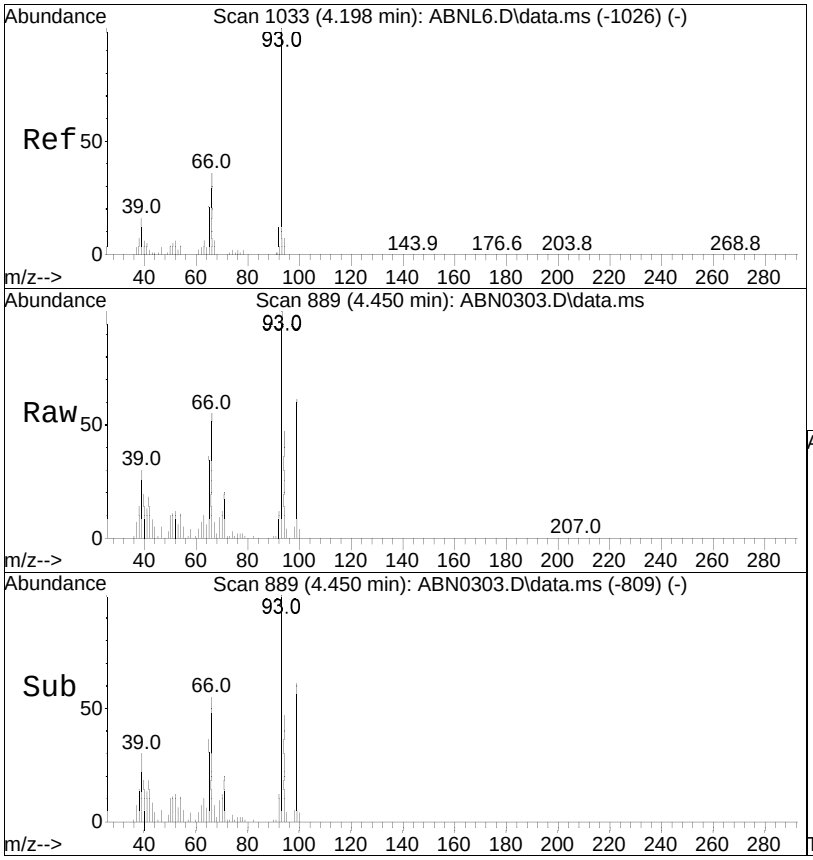


#3
Pyridine
Concen: 4.44 ug/ml M1
RT: 2.190 min Scan# 162
Delta R.T. 0.000 min
Lab File: ABN0303.D
Acq: 3 Mar 2024 12:02 pm

Tgt Ion: 79 Resp: 32489

Ion	Ratio	Lower	Upper
79	100		
52	78.4	93.1	139.7#

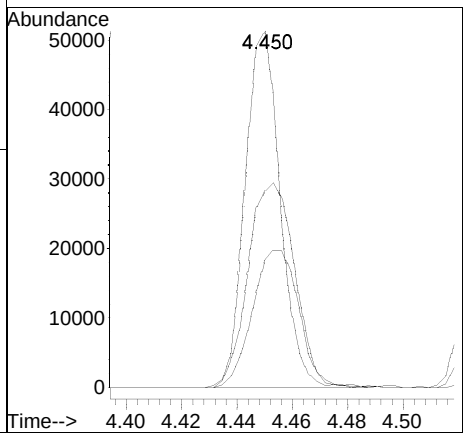


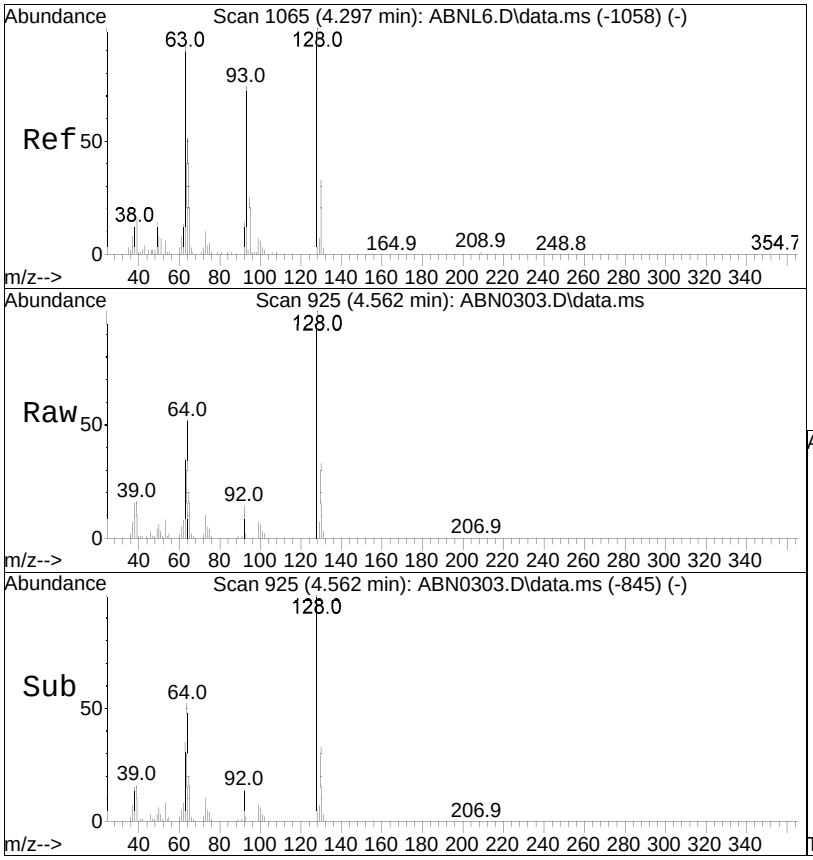


#5
Aniline
Concen: 4.31 ug/ml
RT: 4.450 min Scan# 889
Delta R.T. 0.000 min
Lab File: ABN0303.D
Acq: 3 Mar 2024 12:02 pm

Tgt Ion: 93 Resp: 45230

Ion	Ratio	Lower	Upper
93	100		
66	75.9	32.6	49.0#
65	50.7	17.6	26.4#

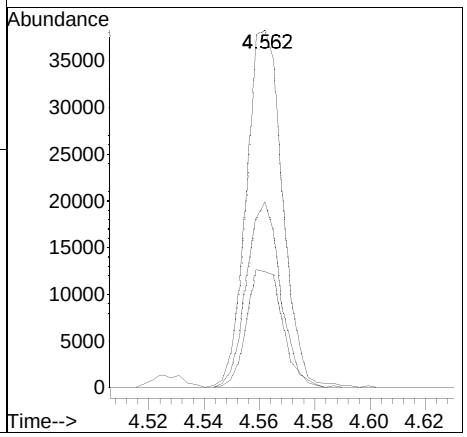


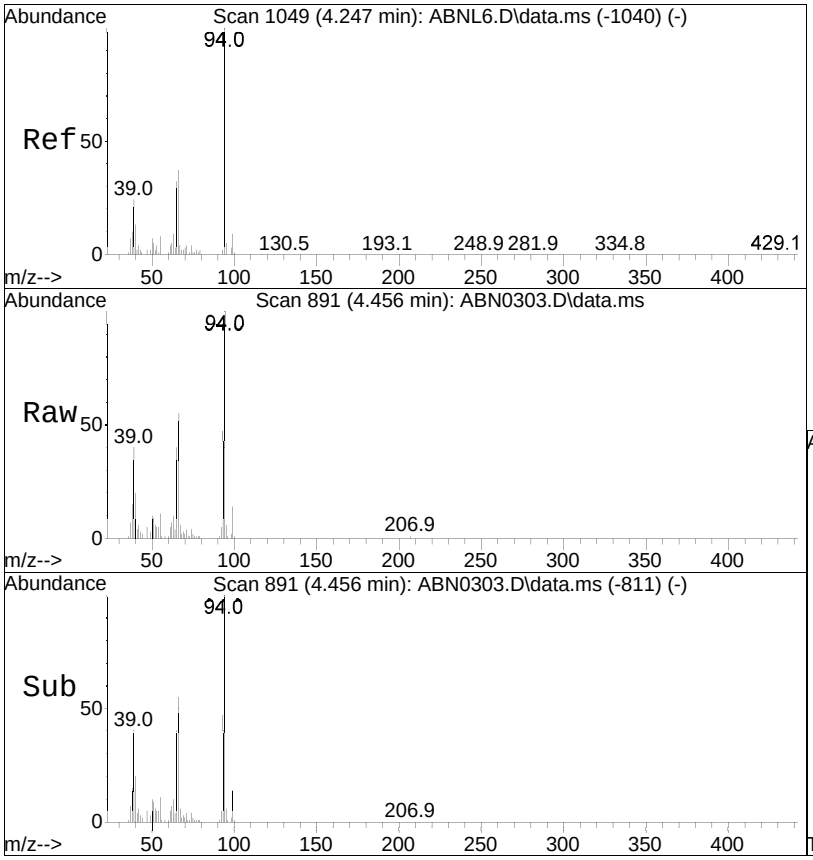


#6
2-Chlorophenol
Concen: 4.53 ug/ml
RT: 4.562 min Scan# 925
Delta R.T. 0.000 min
Lab File: ABN0303.D
Acq: 3 Mar 2024 12:02 pm

Tgt Ion:128 Resp: 34547

Ion	Ratio	Lower	Upper
128	100		
64	49.1	45.1	67.7
130	33.0	26.2	39.4

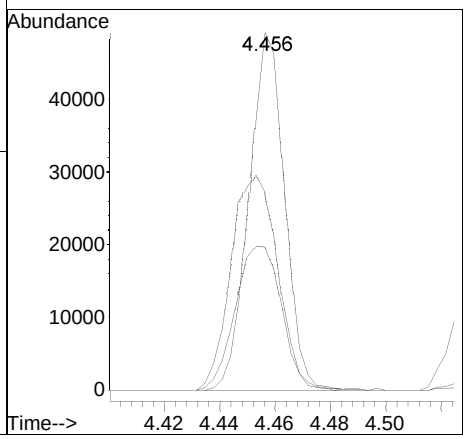


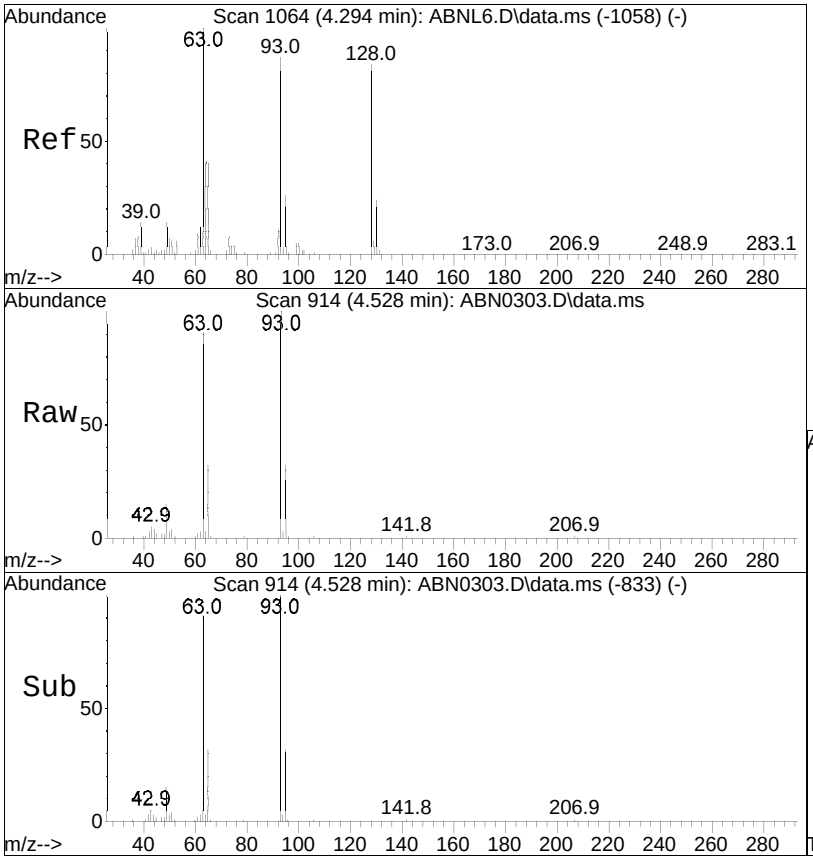


#8
Phenol
Concen: 4.39 ug/ml
RT: 4.456 min Scan# 891
Delta R.T. 0.000 min
Lab File: ABN0303.D
Acq: 3 Mar 2024 12:02 pm

Tgt Ion: 94 Resp: 43694

Ion	Ratio	Lower	Upper
94	100		
65	52.5	26.0	39.0#
66	78.5	33.8	50.8#

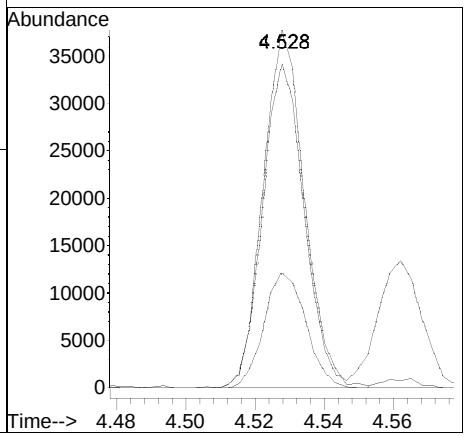


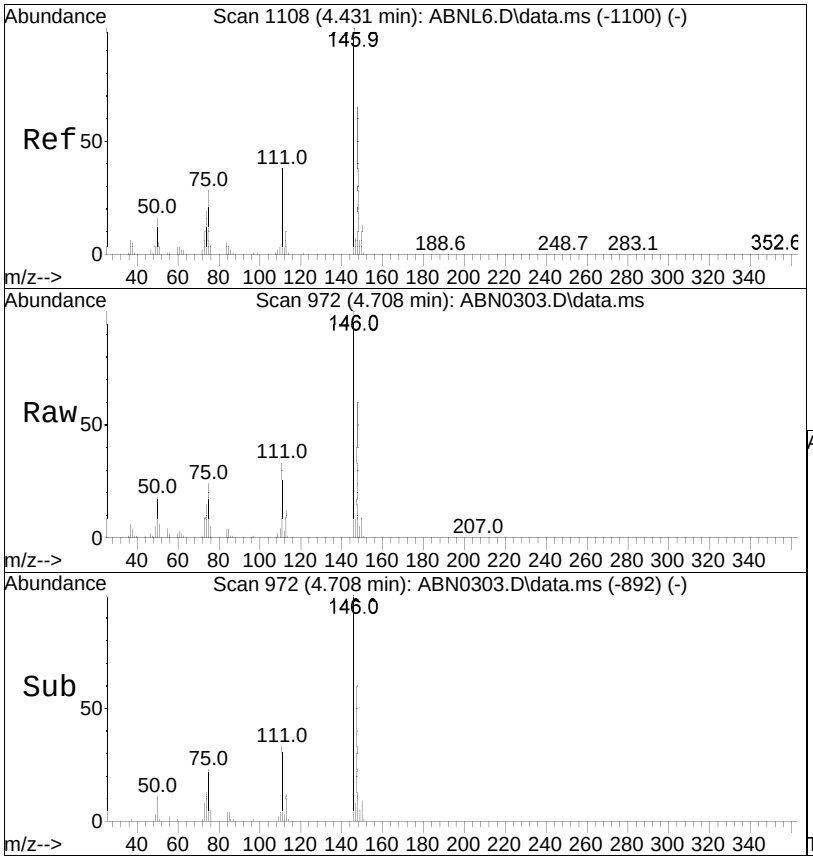


#9
Bis(2-chloroethyl)ether
Concen: 4.42 ug/ml
RT: 4.528 min Scan# 914
Delta R.T. 0.000 min
Lab File: ABN0303.D
Acq: 3 Mar 2024 12:02 pm

Tgt Ion: 93 Resp: 31148

Ion	Ratio	Lower	Upper
93	100		
63	90.9	74.6	111.8
95	32.8	25.9	38.9

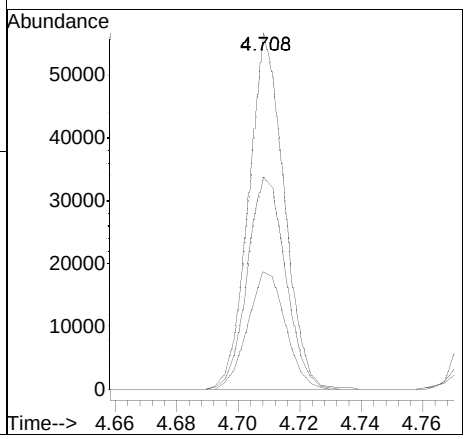


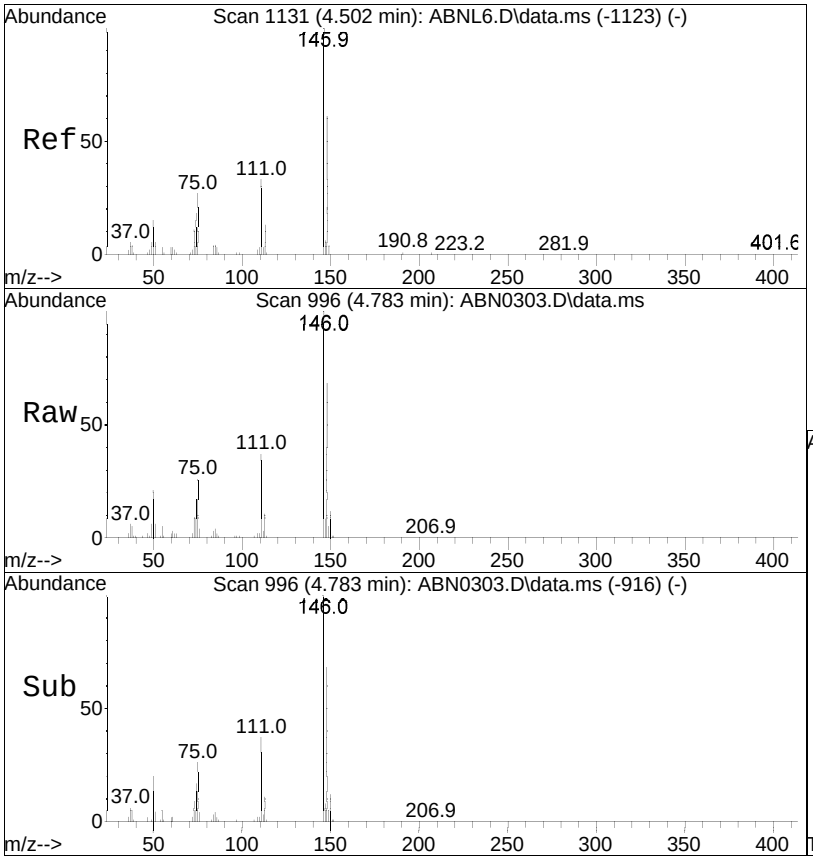


#10
1,3-Dichlorobenzene
Concen: 4.64 ug/ml
RT: 4.708 min Scan# 972
Delta R.T. 0.000 min
Lab File: ABN0303.D
Acq: 3 Mar 2024 12:02 pm

Tgt Ion:146 Resp: 45215

Ion	Ratio	Lower	Upper
146	100		
111	35.4	34.3	51.5
148	64.2	50.8	76.2

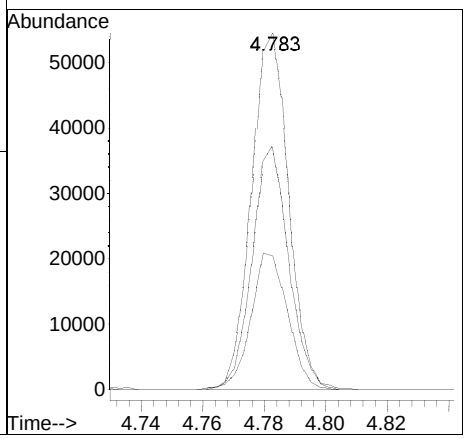


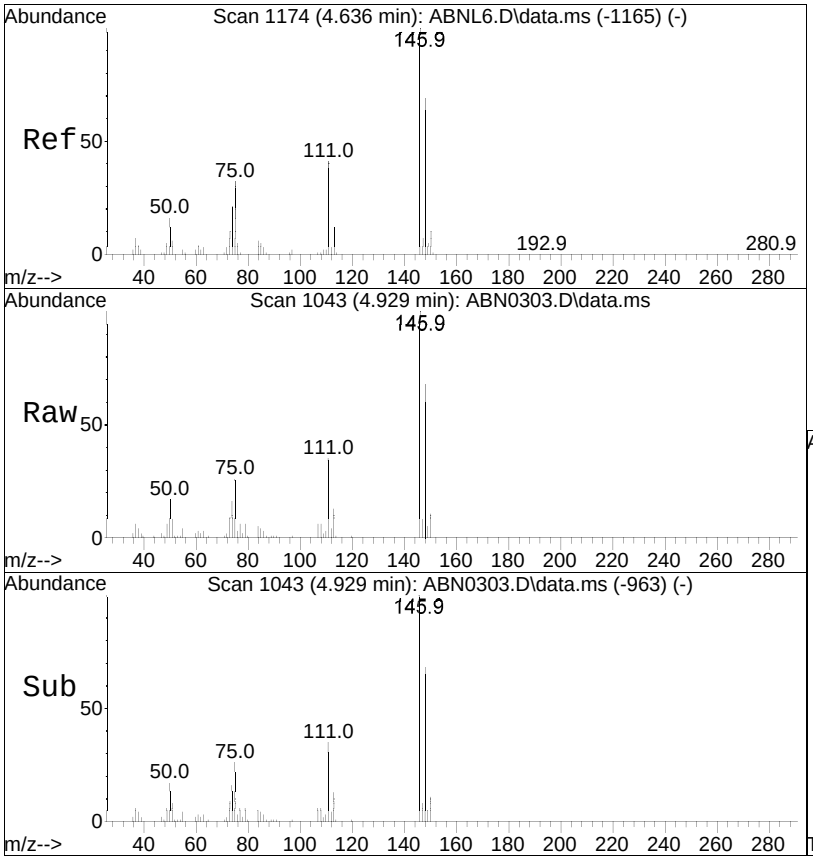


#11
1,4-Dichlorobenzene
Concen: 4.66 ug/ml
RT: 4.783 min Scan# 996
Delta R.T. 0.000 min
Lab File: ABN0303.D
Acq: 3 Mar 2024 12:02 pm

Tgt Ion:146 Resp: 45914

Ion	Ratio	Lower	Upper
146	100		
148	67.1	50.7	76.1
111	38.3	33.4	50.0

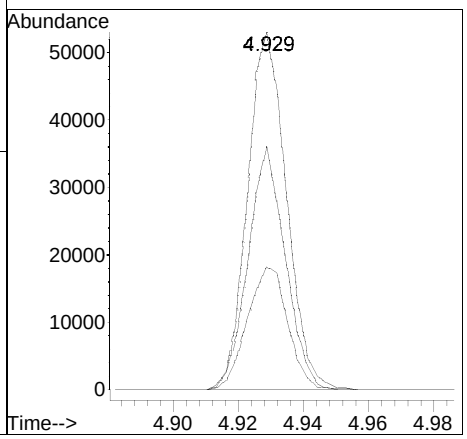


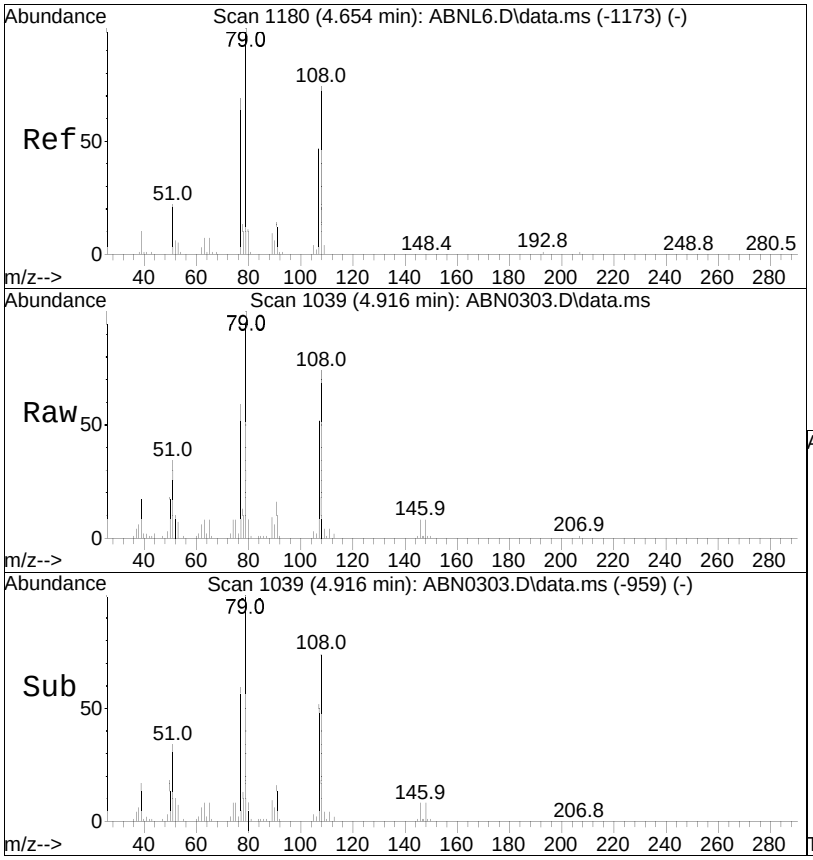


#12
1,2-Dichlorobenzene
Concen: 4.65 ug/ml
RT: 4.929 min Scan# 1043
Delta R.T. 0.000 min
Lab File: ABN0303.D
Acq: 3 Mar 2024 12:02 pm

Tgt Ion:146 Resp: 43625

Ion	Ratio	Lower	Upper
146	100		
111	35.9	34.6	52.0
148	65.3	50.2	75.4

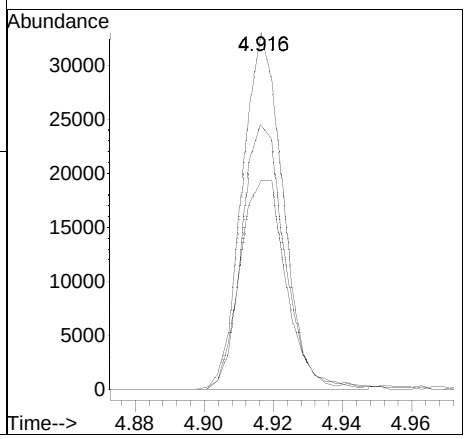


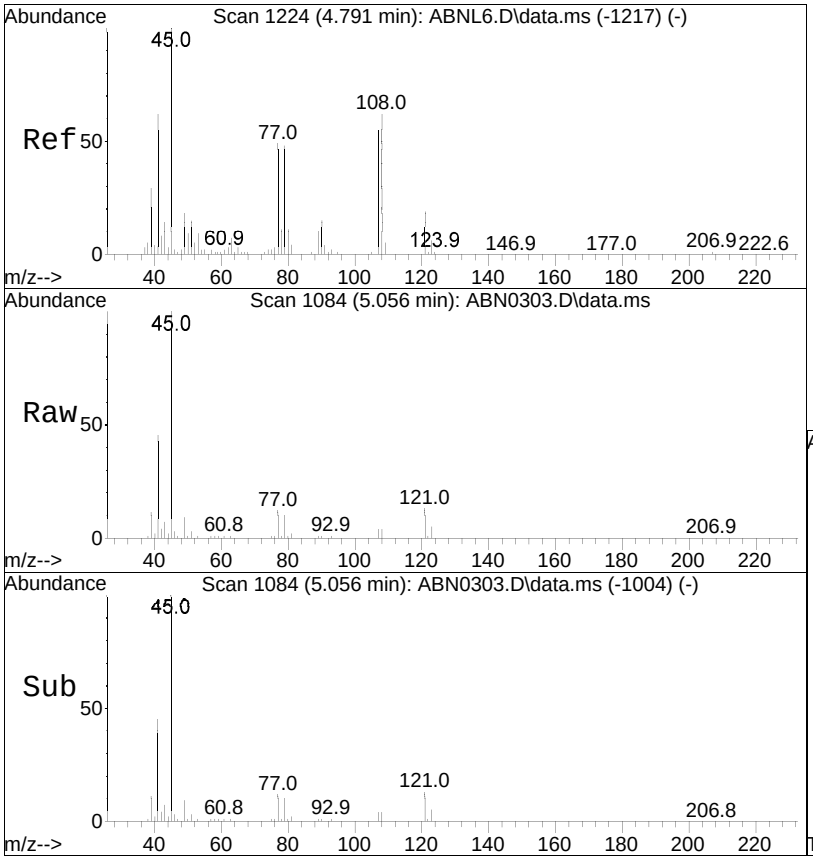


#13
Benzyl alcohol
Concen: 4.29 ug/ml
RT: 4.916 min Scan# 1039
Delta R.T. 0.000 min
Lab File: ABN0303.D
Acq: 3 Mar 2024 12:02 pm

Tgt Ion: 79 Resp: 27042

Ion	Ratio	Lower	Upper
79	100		
77	65.4	54.9	82.3
108	77.8	63.1	94.7

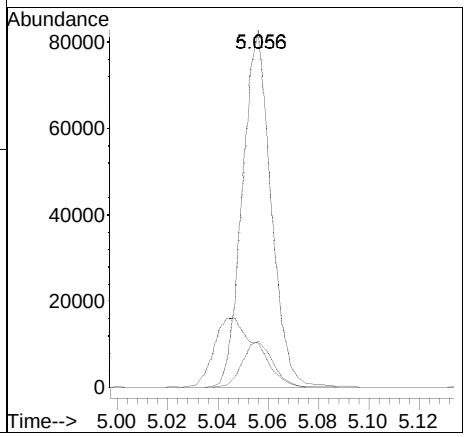


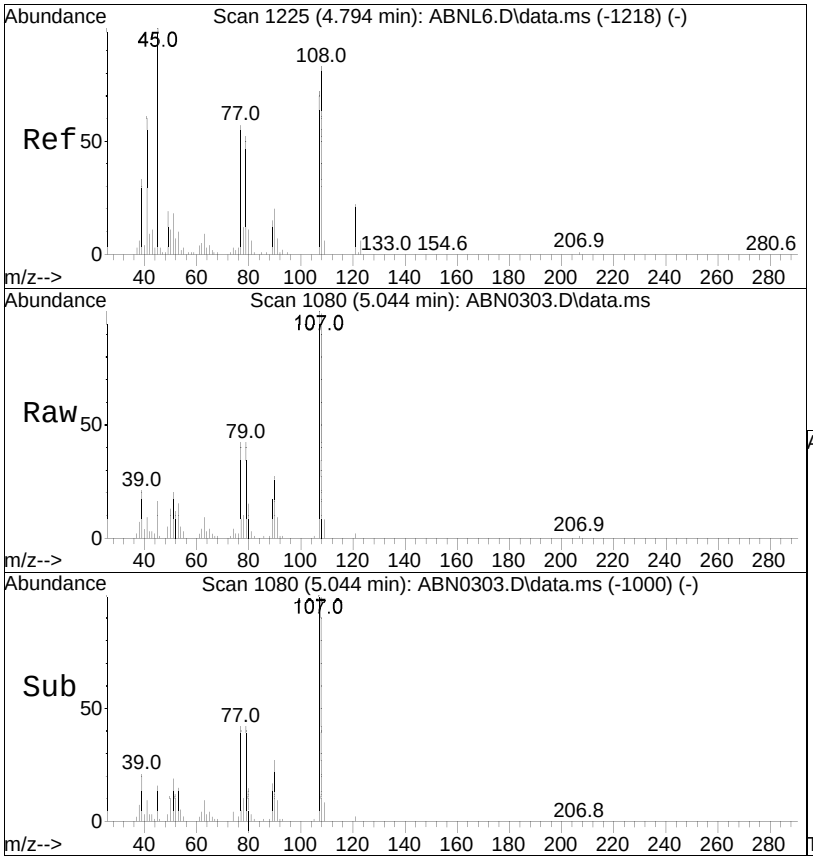


#14
Bis(2-chloroisopropyl)ether
Concen: 4.52 ug/ml
RT: 5.056 min Scan# 1084
Delta R.T. 0.000 min
Lab File: ABN0303.D
Acq: 3 Mar 2024 12:02 pm

Tgt Ion: 45 Resp: 64777

Ion	Ratio	Lower	Upper
45	100		
121	13.8	9.8	14.6
77	29.7	6.1	9.1#

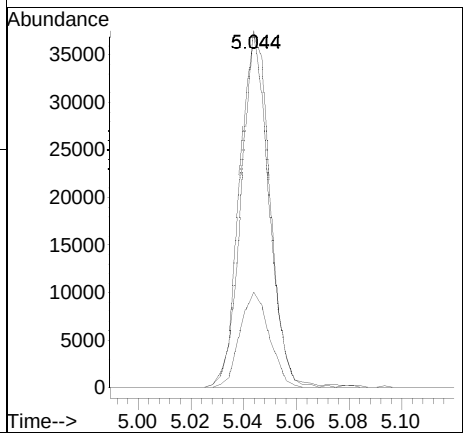


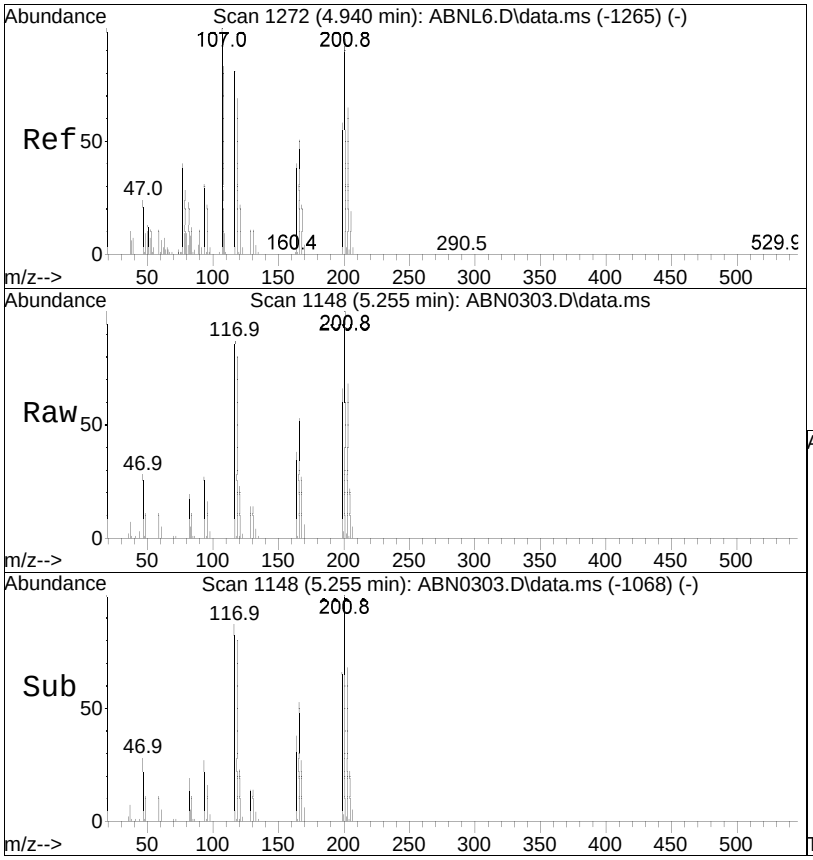


#15
2-Methylphenol
Concen: 4.43 ug/ml
RT: 5.044 min Scan# 1080
Delta R.T. 0.000 min
Lab File: ABN0303.D
Acq: 3 Mar 2024 12:02 pm

Tgt Ion:108 Resp: 30051

Ion	Ratio	Lower	Upper
108	100		
107	90.7	70.7	106.1
90	26.0	18.7	28.1

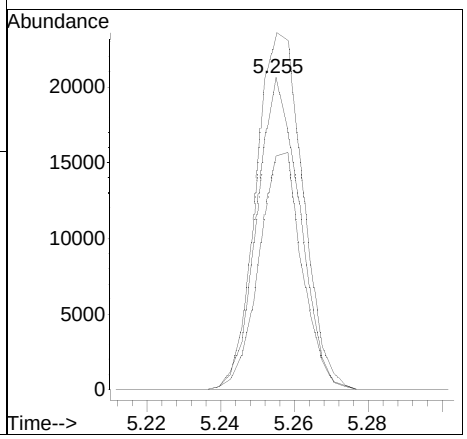


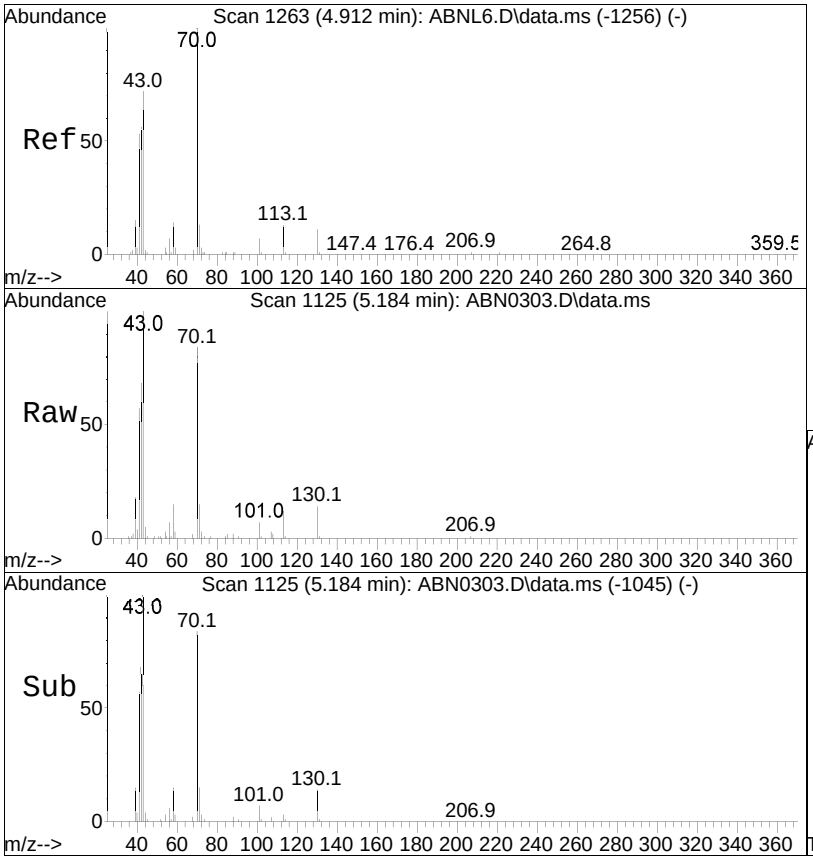


#16
Hexachloroethane
Concen: 4.63 ug/ml
RT: 5.255 min Scan# 1148
Delta R.T. 0.000 min
Lab File: ABN0303.D
Acq: 3 Mar 2024 12:02 pm

Tgt Ion:117 Resp: 16630

Ion	Ratio	Lower	Upper
117	100		
201	124.8	58.6	87.8#
199	76.4	36.9	55.3#

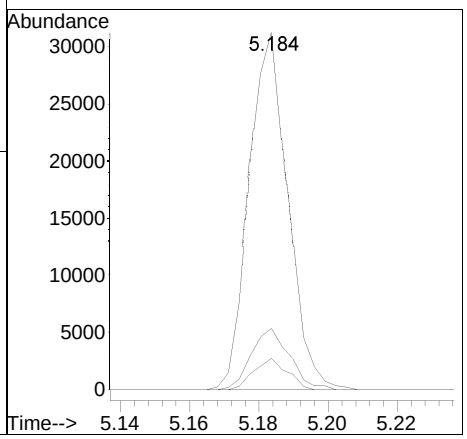


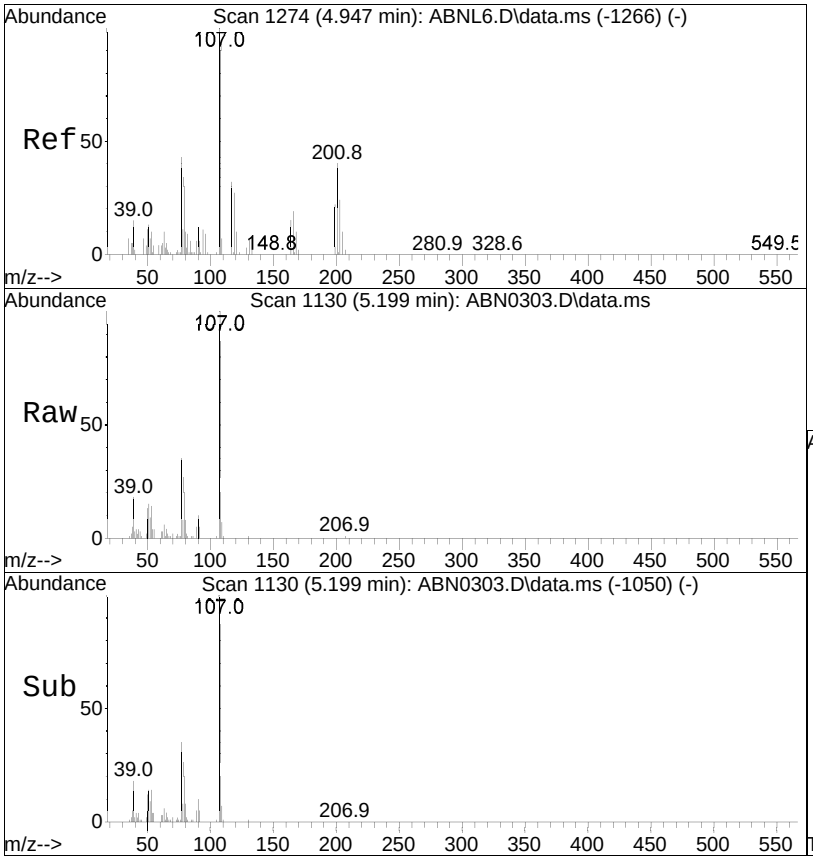


#17
n-Nitrosodi-n-propylamine
Concen: 4.33 ug/ml
RT: 5.184 min Scan# 1125
Delta R.T. 0.000 min
Lab File: ABN0303.D
Acq: 3 Mar 2024 12:02 pm

Tgt Ion: 70 Resp: 24252

Ion	Ratio	Lower	Upper
70	100		
130	16.9	18.2	27.4#
101	7.5	7.8	11.8#

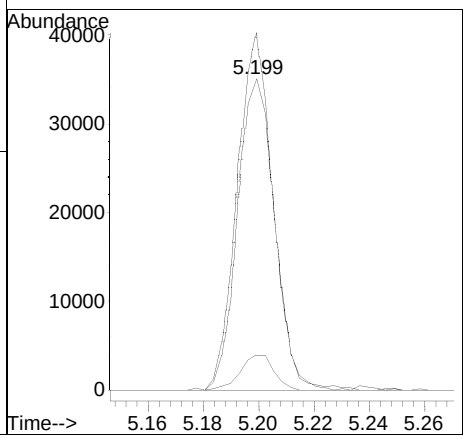


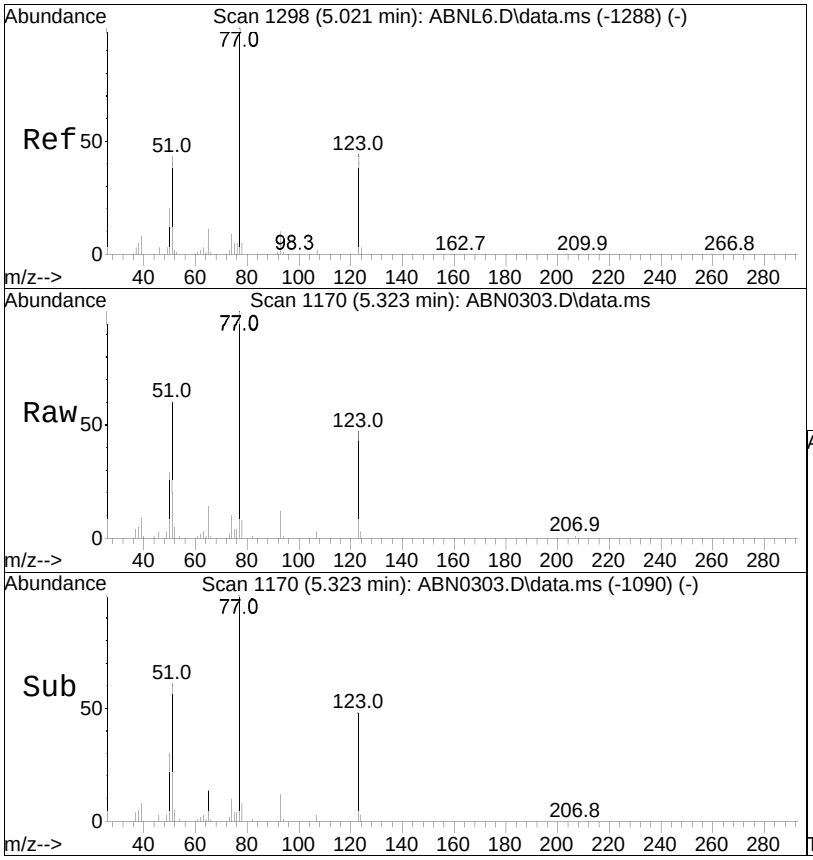


#18
3-Methylphenol/4-Methylphenol
Concen: 4.41 ug/ml
RT: 5.199 min Scan# 1130
Delta R.T. 0.000 min
Lab File: ABN0303.D
Acq: 3 Mar 2024 12:02 pm

Tgt Ion:108 Resp: 32697

Ion	Ratio	Lower	Upper
108	100		
107	110.2	88.6	132.8
90	10.2	8.8	13.2

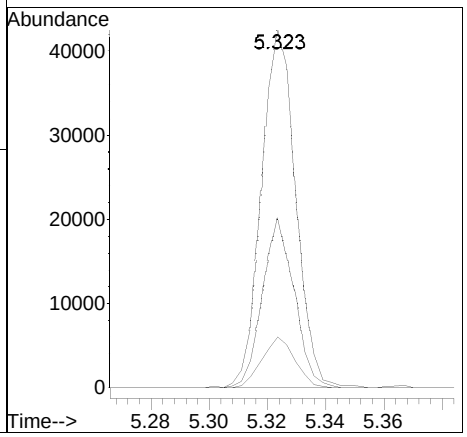


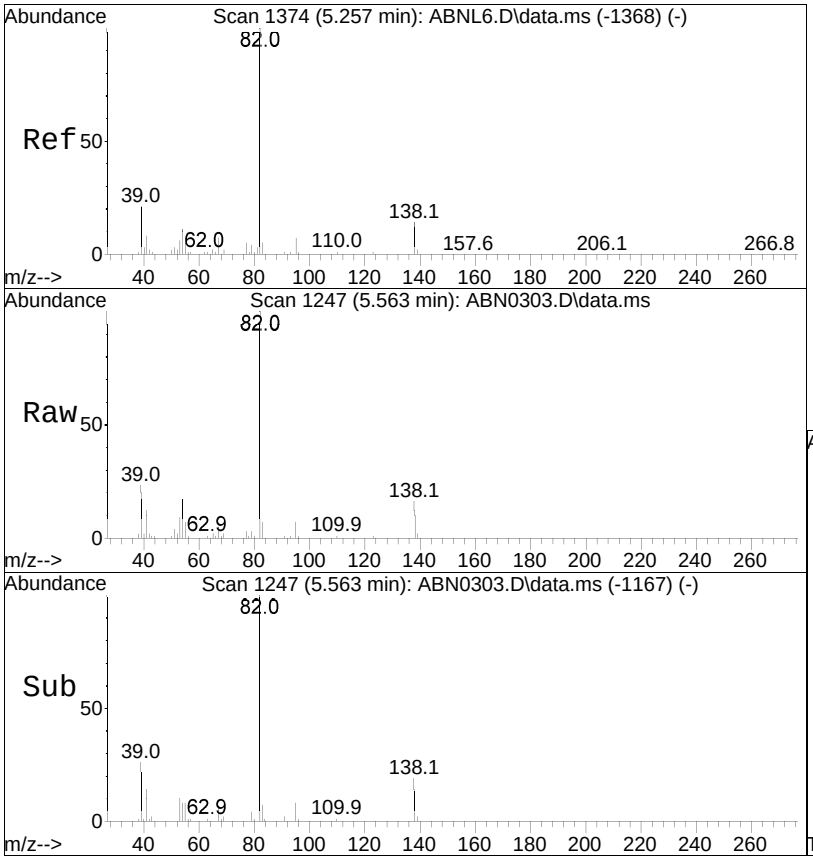


#20
Nitrobenzene
Concen: 4.33 ug/ml
RT: 5.323 min Scan# 1170
Delta R.T. 0.000 min
Lab File: ABN0303.D
Acq: 3 Mar 2024 12:02 pm

Tgt Ion: 77 Resp: 34600

Ion	Ratio	Lower	Upper
77	100		
123	44.0	36.3	54.5
65	13.5	11.6	17.4

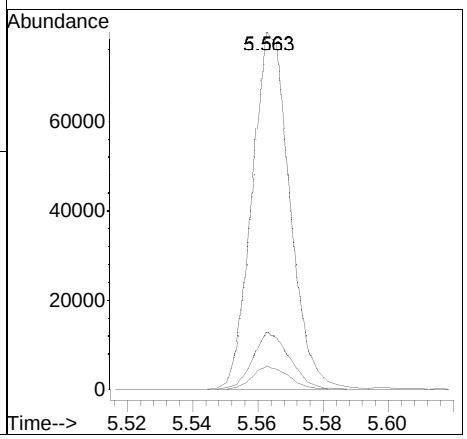


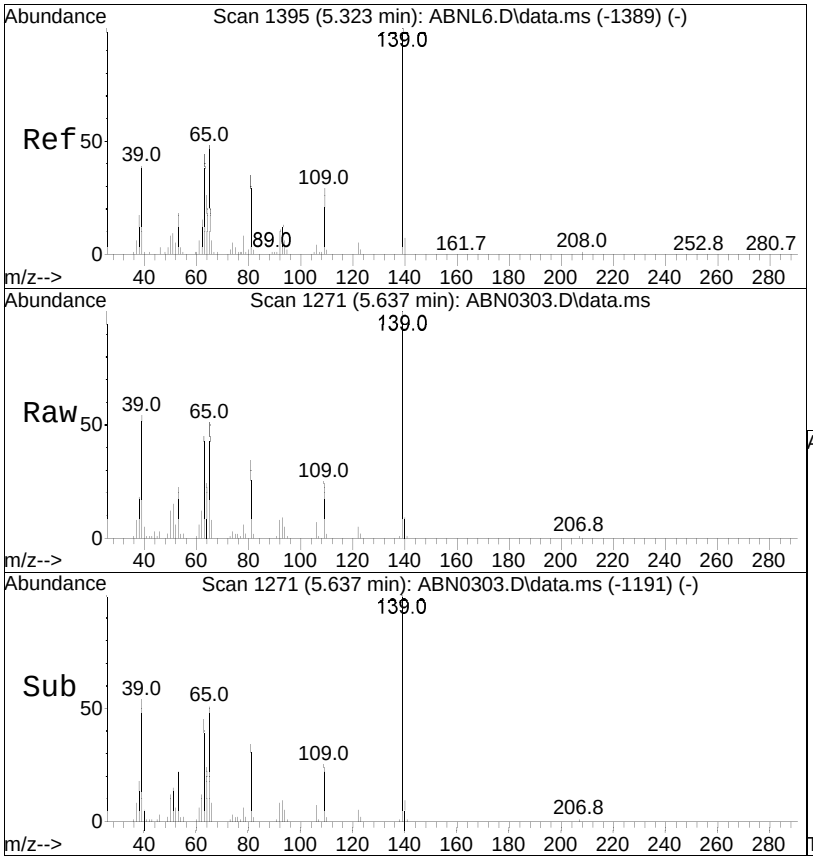


#21
Isophorone
Concen: 4.50 ug/ml
RT: 5.563 min Scan# 1247
Delta R.T. 0.000 min
Lab File: ABN0303.D
Acq: 3 Mar 2024 12:02 pm

Tgt Ion: 82 Resp: 64008

Ion	Ratio	Lower	Upper
82	100		
138	15.6	14.7	22.1
95	6.3	5.2	7.8

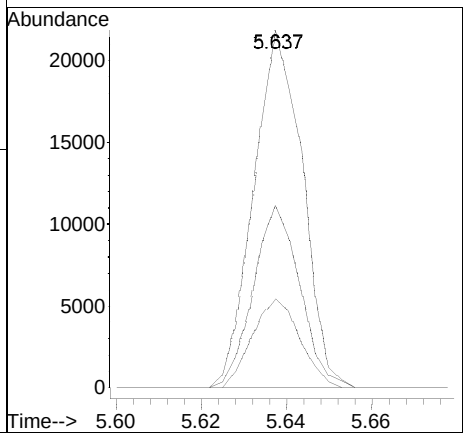


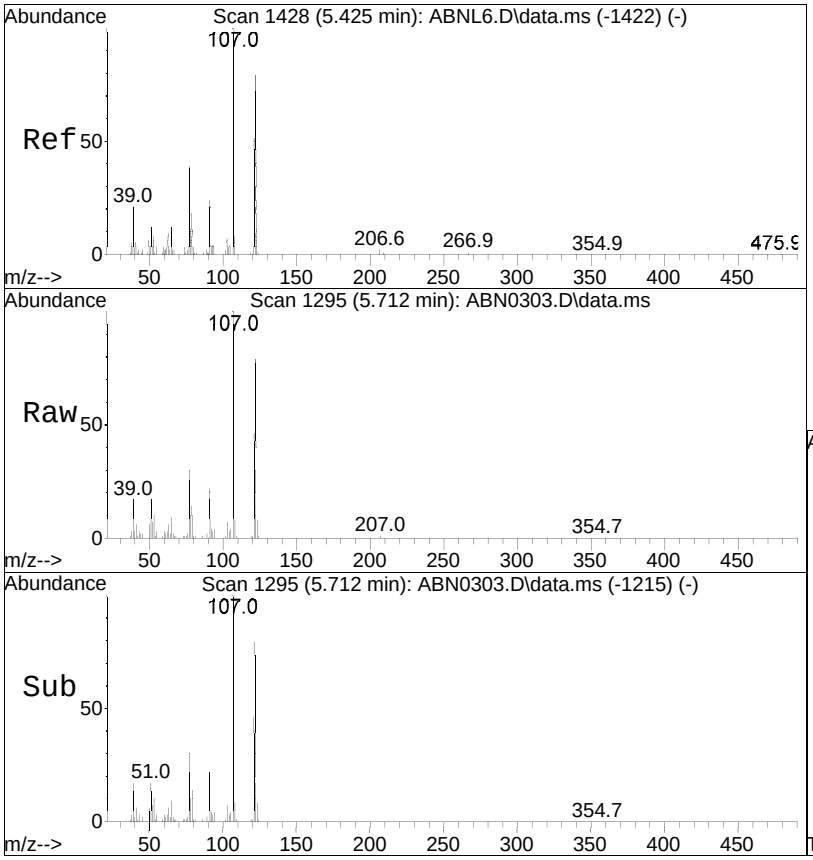


#22
2-Nitrophenol
Concen: 4.62 ug/ml
RT: 5.637 min Scan# 1271
Delta R.T. 0.000 min
Lab File: ABN0303.D
Acq: 3 Mar 2024 12:02 pm

Tgt Ion:139 Resp: 17288

Ion	Ratio	Lower	Upper
139	100		
109	24.4	19.4	29.0
65	48.8	46.1	69.1

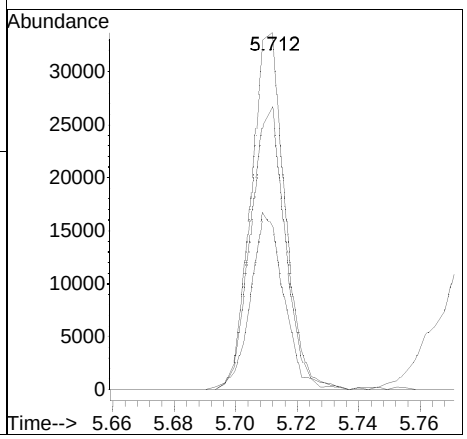


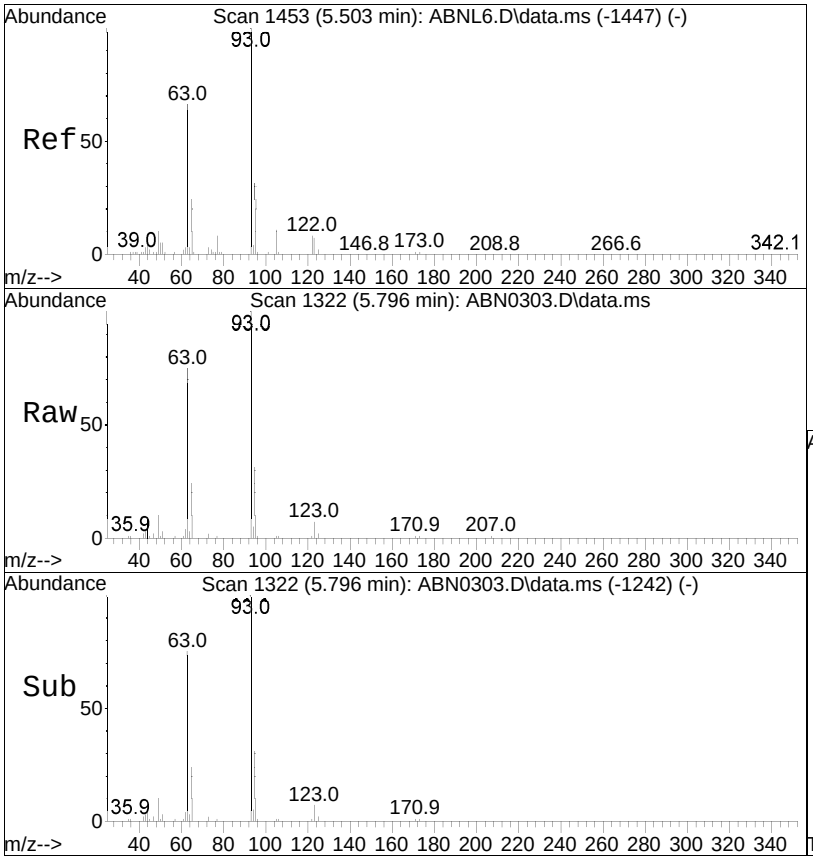


#23
2,4-Dimethylphenol
Concen: 4.42 ug/ml
RT: 5.712 min Scan# 1295
Delta R.T. 0.000 min
Lab File: ABN0303.D
Acq: 3 Mar 2024 12:02 pm

Tgt Ion:107 Resp: 25763

Ion	Ratio	Lower	Upper
107	100		
121	48.7	40.0	60.0
122	80.6	70.2	105.4

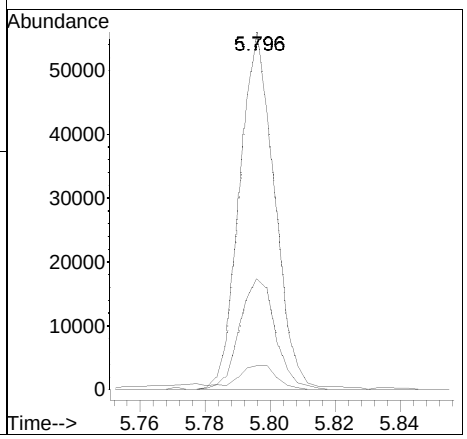


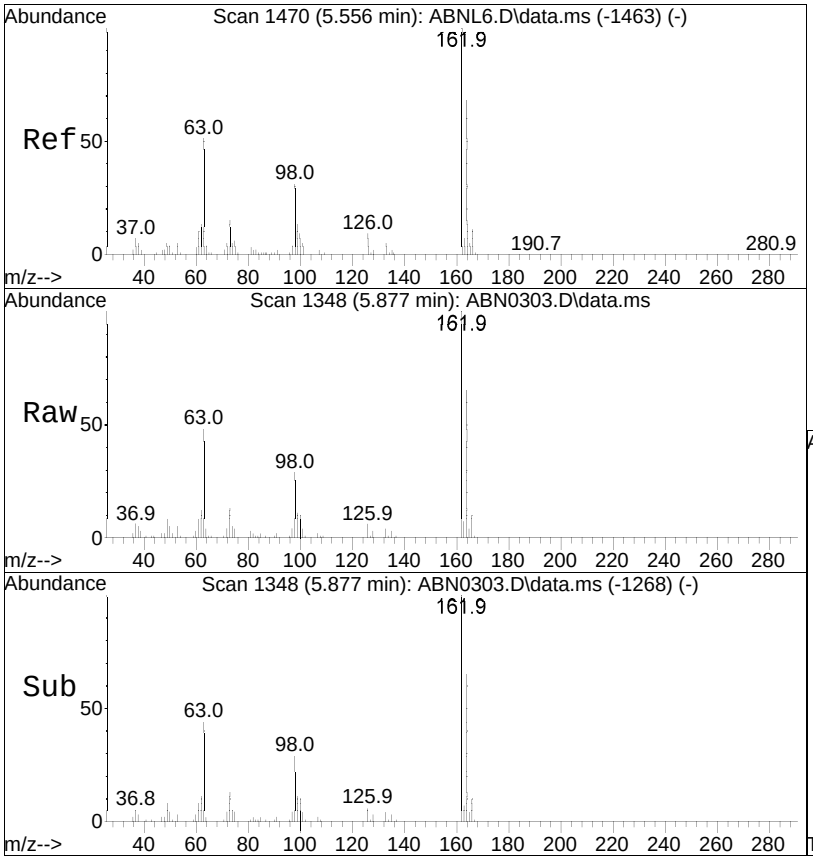


#24
Bis(2-chloroethoxy)methane
Concen: 4.55 ug/ml
RT: 5.796 min Scan# 1322
Delta R.T. 0.000 min
Lab File: ABN0303.D
Acq: 3 Mar 2024 12:02 pm

Tgt Ion: 93 Resp: 41595

Ion	Ratio	Lower	Upper
93	100		
95	31.8	25.8	38.8
123	7.4	10.1	15.1#

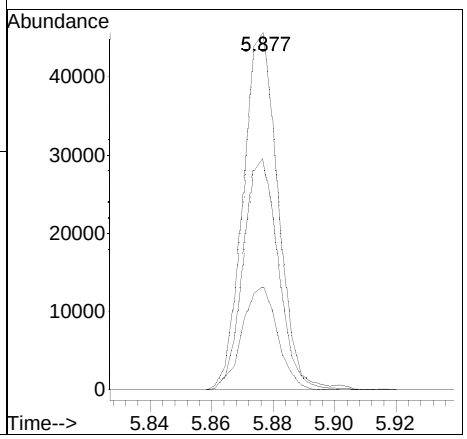


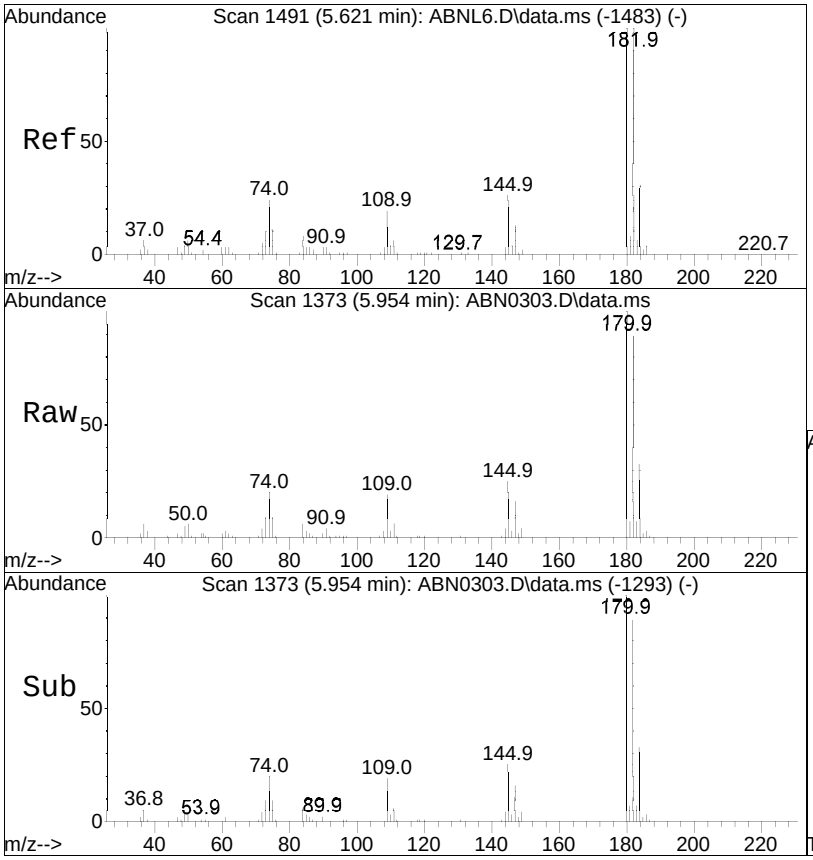


#25
2,4-Dichlorophenol
Concen: 4.83 ug/ml
RT: 5.877 min Scan# 1348
Delta R.T. 0.000 min
Lab File: ABN0303.D
Acq: 3 Mar 2024 12:02 pm

Tgt Ion:162 Resp: 36235

Ion	Ratio	Lower	Upper
162	100		
164	64.9	51.0	76.4
98	29.4	32.2	48.2#

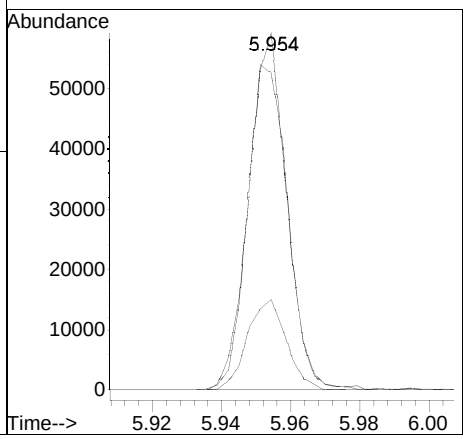


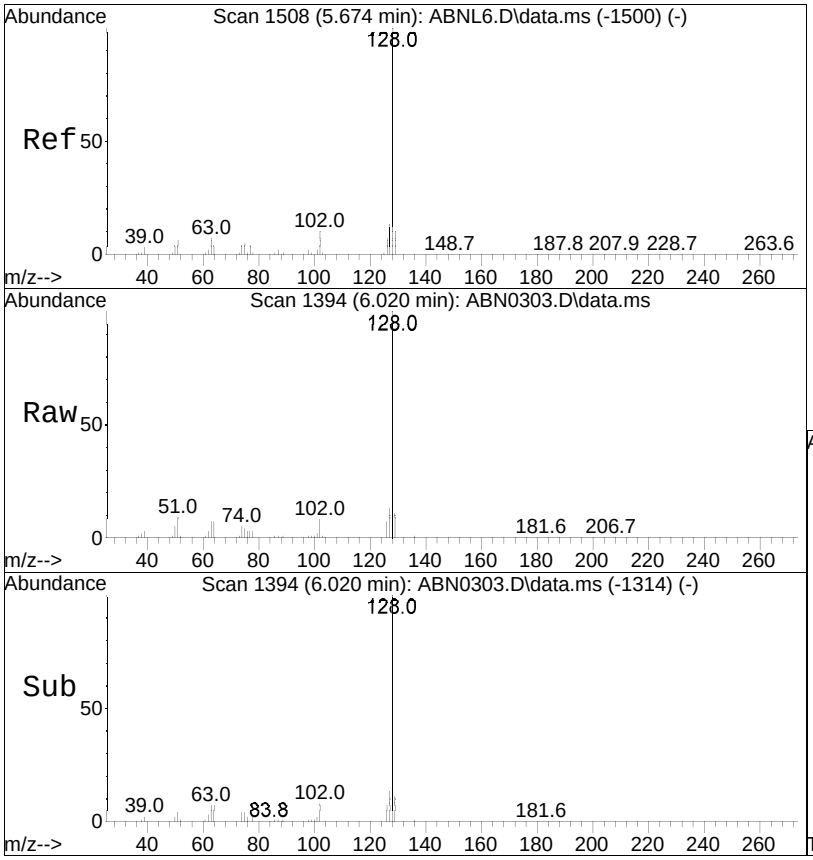


#26
1,2,4-Trichlorobenzene
Concen: 4.68 ug/ml
RT: 5.954 min Scan# 1373
Delta R.T. 0.000 min
Lab File: ABN0303.D
Acq: 3 Mar 2024 12:02 pm

Tgt Ion:180 Resp: 45119

Ion	Ratio	Lower	Upper
180	100		
182	97.2	76.0	114.0
145	26.0	25.7	38.5

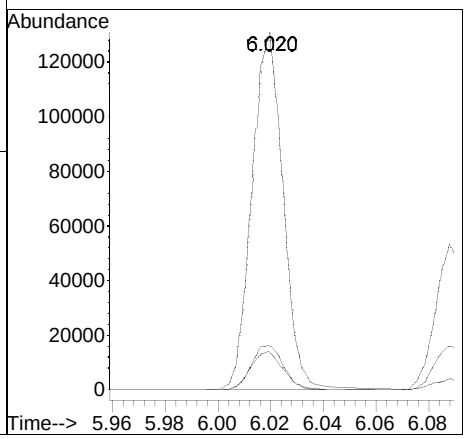


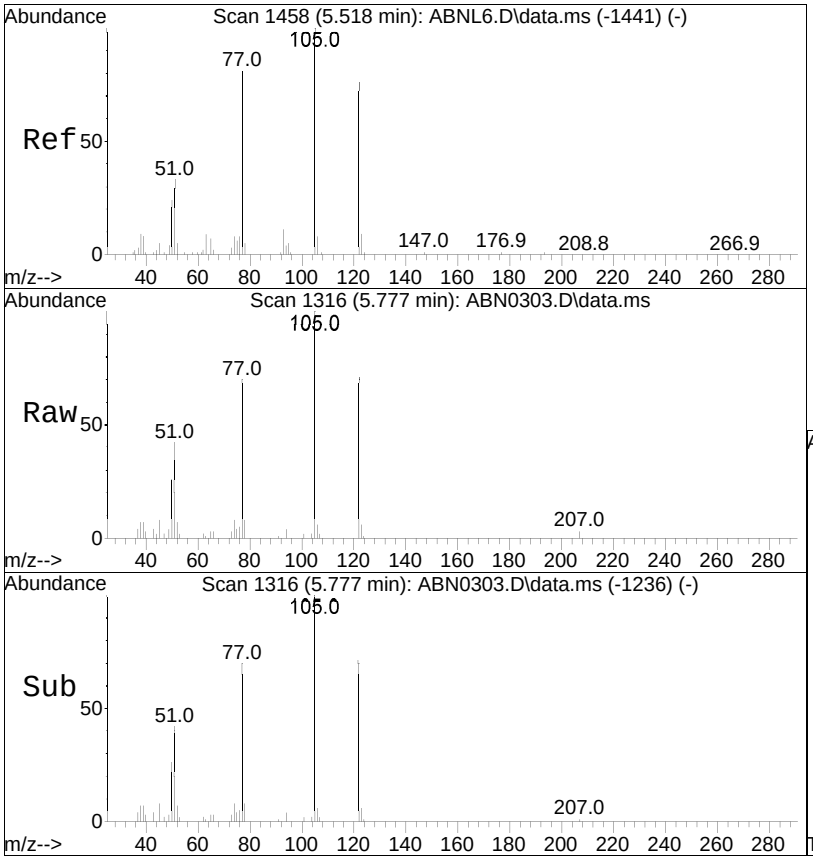


#34
Naphthalene
Concen: 4.68 ug/ml
RT: 6.020 min Scan# 1394
Delta R.T. 0.000 min
Lab File: ABN0303.D
Acq: 3 Mar 2024 12:02 pm

Tgt Ion:128 Resp: 106869

Ion	Ratio	Lower	Upper
128	100		
129	11.2	8.7	13.1
127	12.9	10.3	15.5

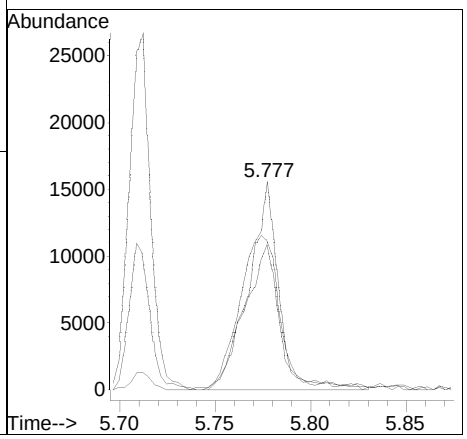


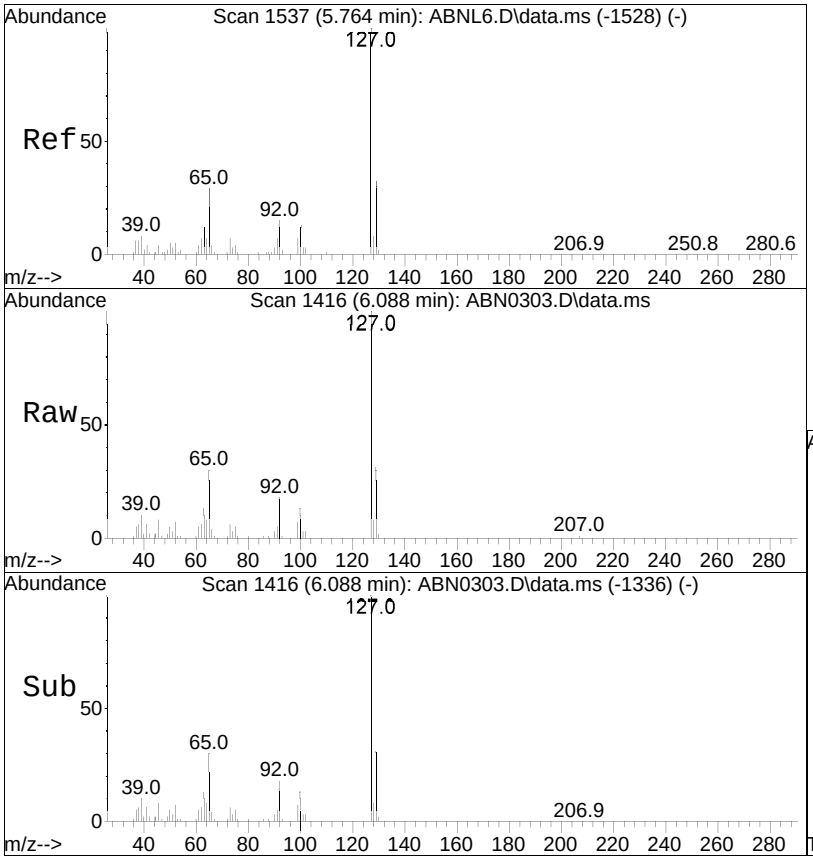


#35
Benzoic Acid
Concen: 4.52 ug/ml
RT: 5.777 min Scan# 1316
Delta R.T. 0.000 min
Lab File: ABN0303.D
Acq: 3 Mar 2024 12:02 pm

Tgt Ion:105 Resp: 18725

Ion	Ratio	Lower	Upper
105	100		
122	83.0	59.9	89.9
77	72.5	60.1	90.1

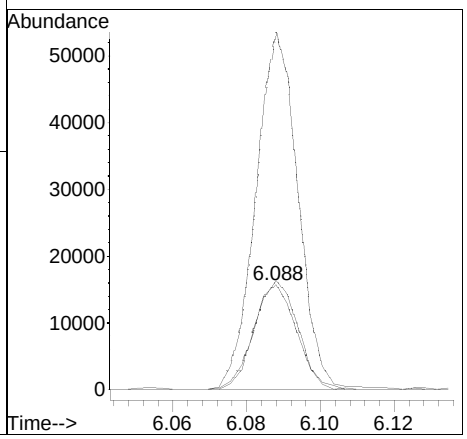


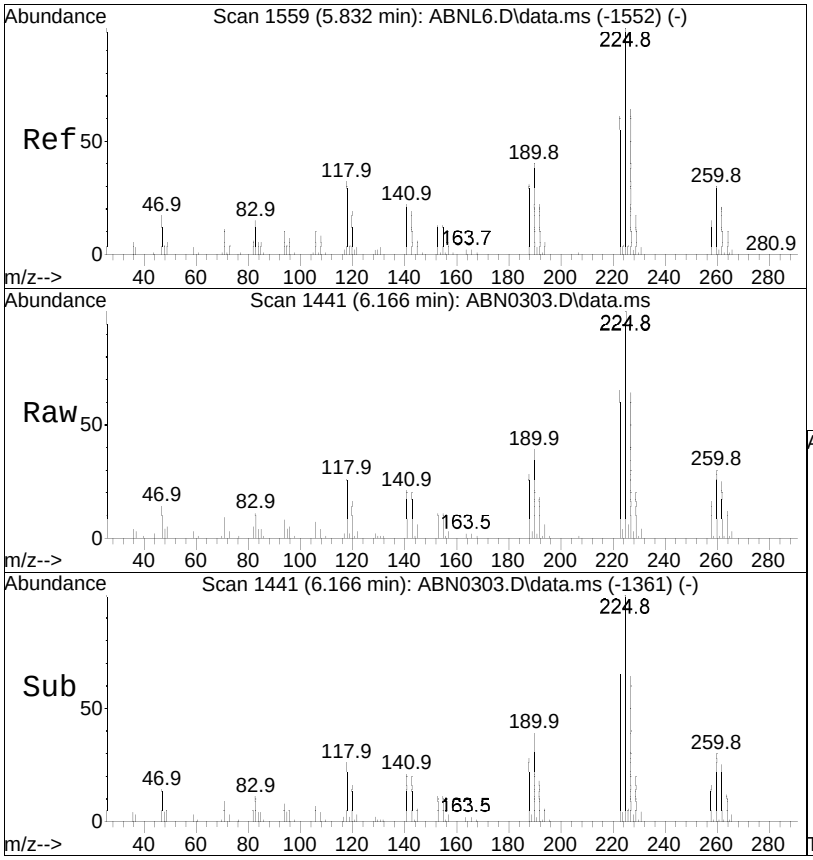


#36
4-Chloroaniline
Concen: 4.36 ug/ml
RT: 6.088 min Scan# 1416
Delta R.T. 0.000 min
Lab File: ABN0303.D
Acq: 3 Mar 2024 12:02 pm

Tgt Ion: 65 Resp: 12704

Ion	Ratio	Lower	Upper
65	100		
127	331.5	237.6	356.4
129	104.0	76.3	114.5

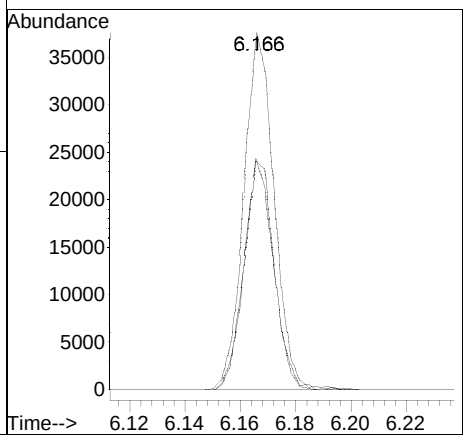


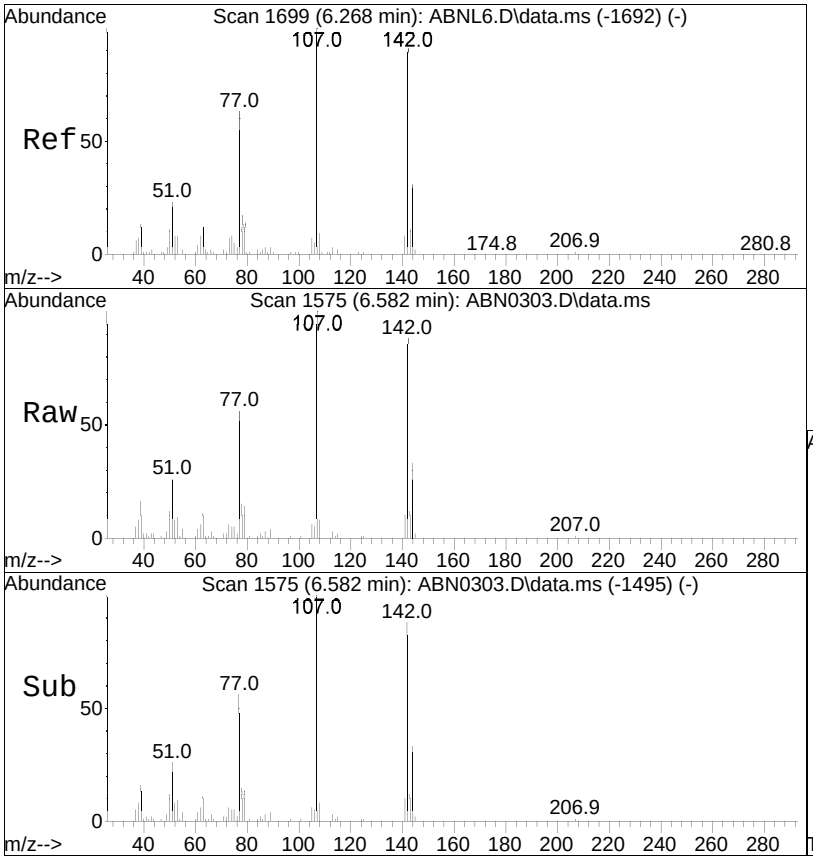


#37
Hexachlorobutadiene
Concen: 5.06 ug/ml
RT: 6.166 min Scan# 1441
Delta R.T. 0.000 min
Lab File: ABN0303.D
Acq: 3 Mar 2024 12:02 pm

Tgt Ion:225 Resp: 28679

Ion	Ratio	Lower	Upper
225	100		
223	62.0	50.3	75.5
227	64.8	52.2	78.2

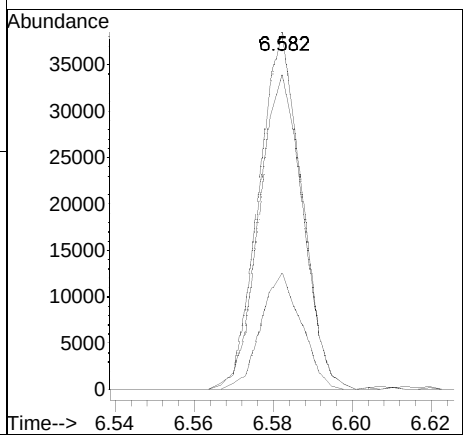


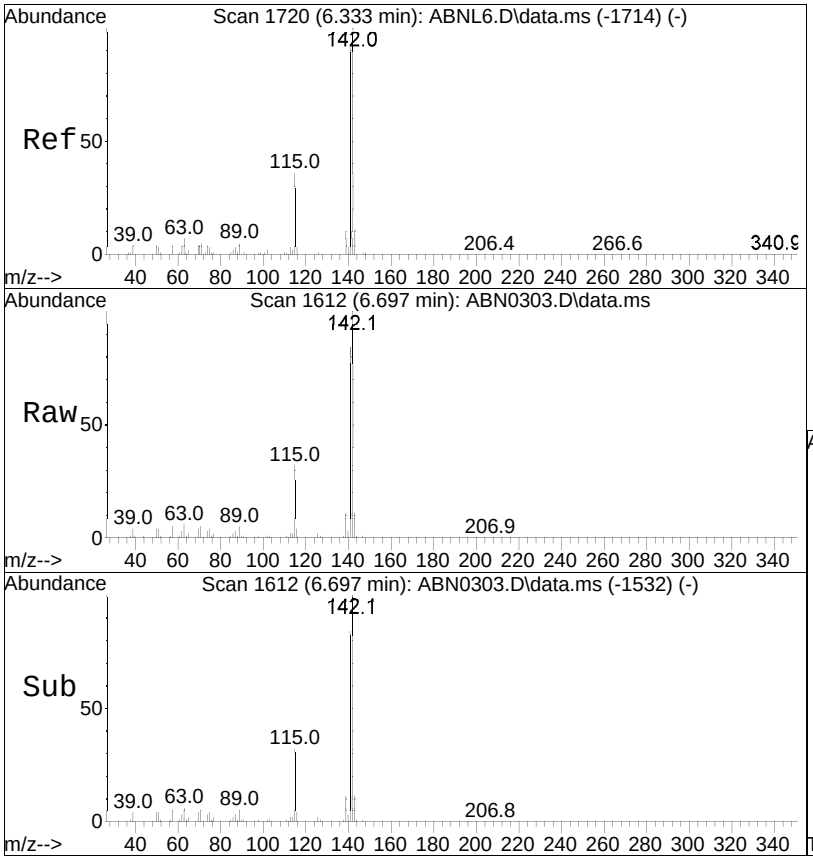


#38
p-Chloro-m-cresol
Concen: 4.52 ug/ml
RT: 6.582 min Scan# 1575
Delta R.T. 0.000 min
Lab File: ABN0303.D
Acq: 3 Mar 2024 12:02 pm

Tgt Ion:107 Resp: 28791

Ion	Ratio	Lower	Upper
107	100		
144	30.9	20.9	31.3
142	90.4	66.1	99.1

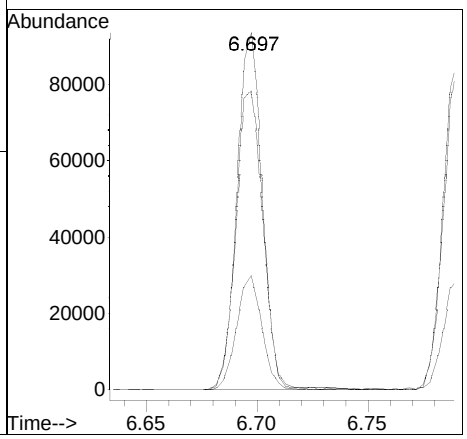


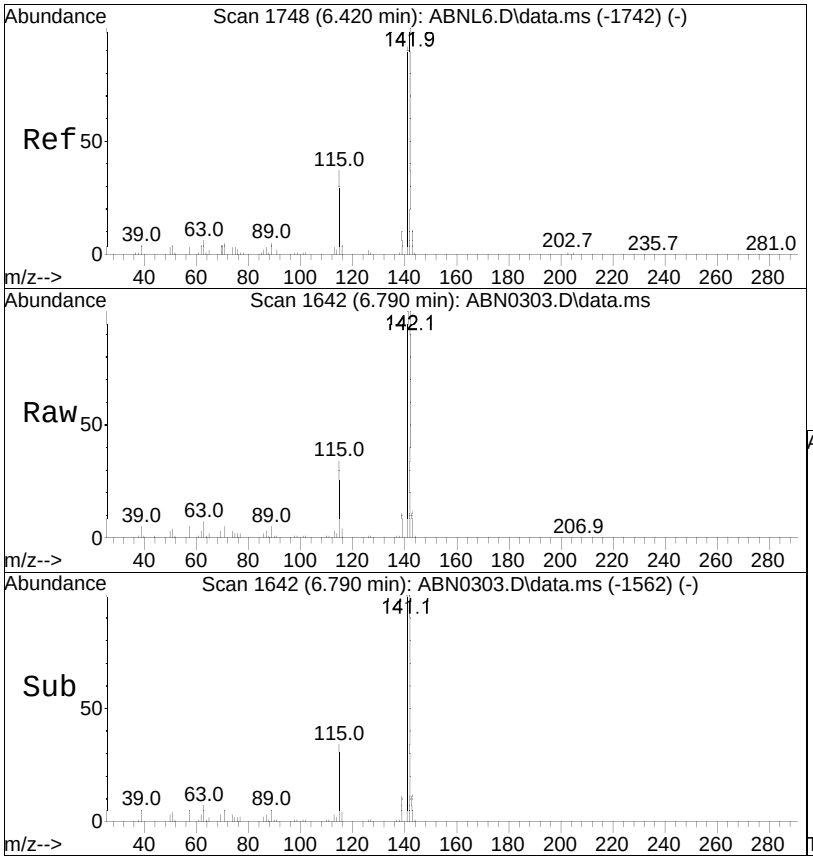


#39
2-Methylnaphthalene
Concen: 4.67 ug/ml
RT: 6.697 min Scan# 1612
Delta R.T. 0.000 min
Lab File: ABN0303.D
Acq: 3 Mar 2024 12:02 pm

Tgt Ion:142 Resp: 75140

Ion	Ratio	Lower	Upper
142	100		
141	88.5	69.6	104.4
115	31.8	26.6	40.0

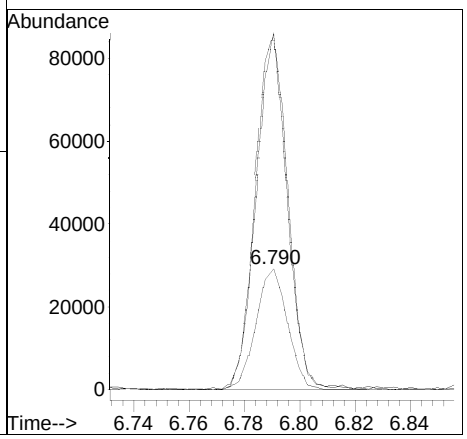


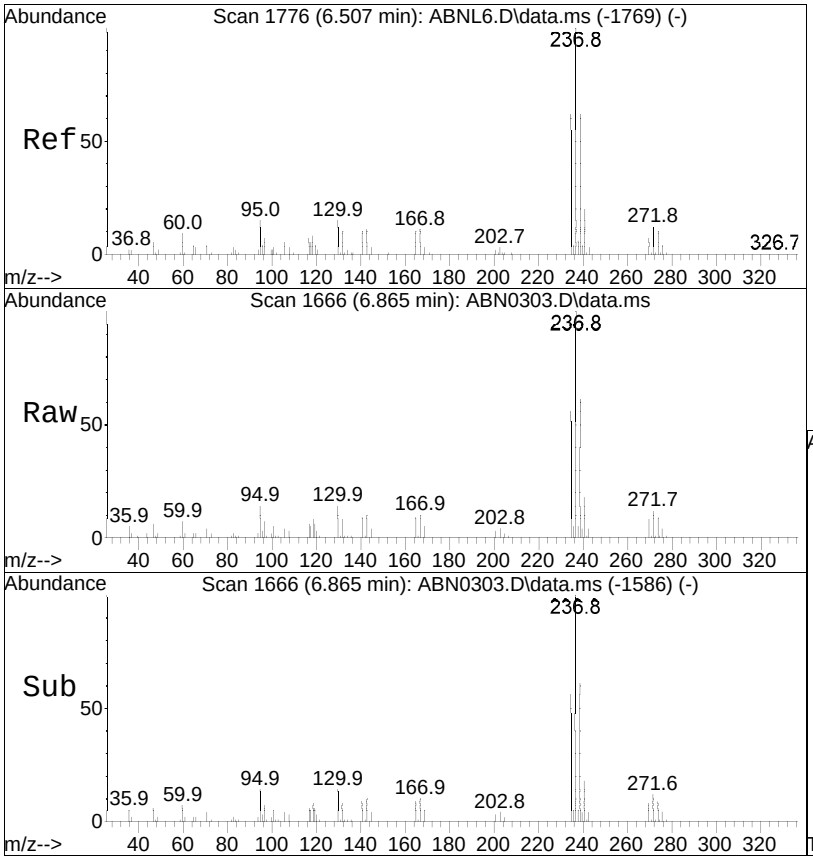


#40
1-Methylnaphthalene
Concen: 4.58 ug/ml
RT: 6.790 min Scan# 1642
Delta R.T. 0.000 min
Lab File: ABN0303.D
Acq: 3 Mar 2024 12:02 pm

Tgt Ion:115 Resp: 23543

Ion	Ratio	Lower	Upper
115	100		
141	284.1	207.8	311.6
142	297.0	226.8	340.2

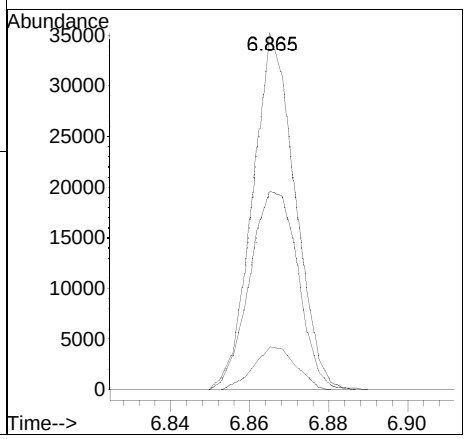


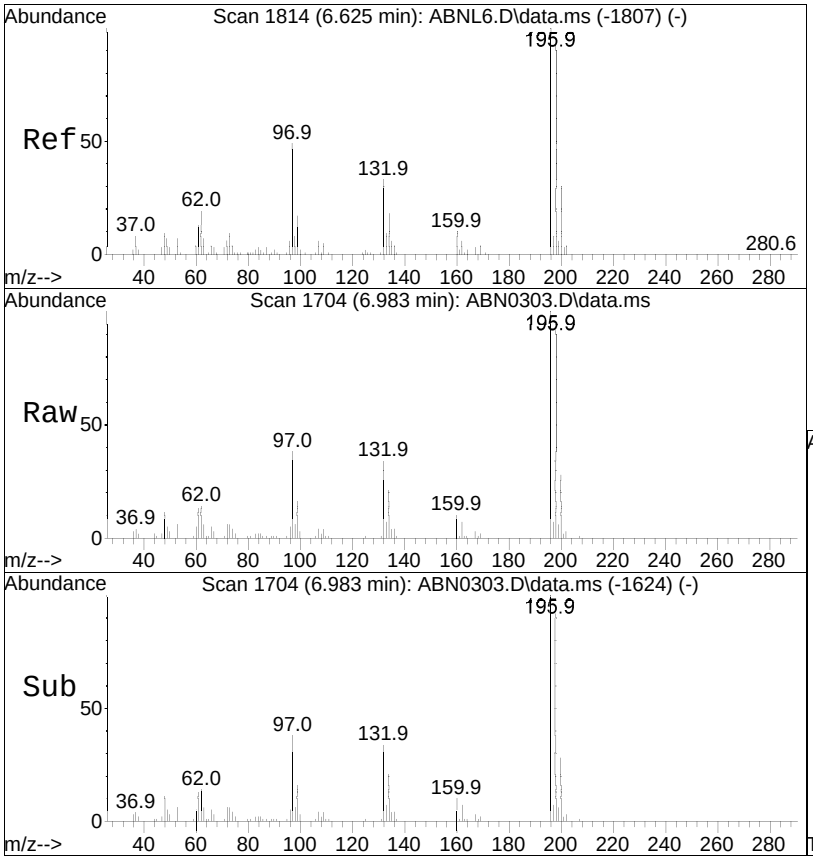


#41
Hexachlorocyclopentadiene
Concen: 4.96 ug/ml
RT: 6.865 min Scan# 1666
Delta R.T. 0.000 min
Lab File: ABN0303.D
Acq: 3 Mar 2024 12:02 pm

Tgt Ion:237 Resp: 26202

Ion	Ratio	Lower	Upper
237	100		
235	63.8	49.7	74.5
272	12.2	9.8	14.6

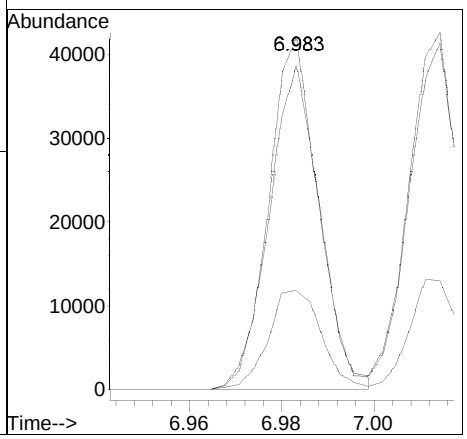


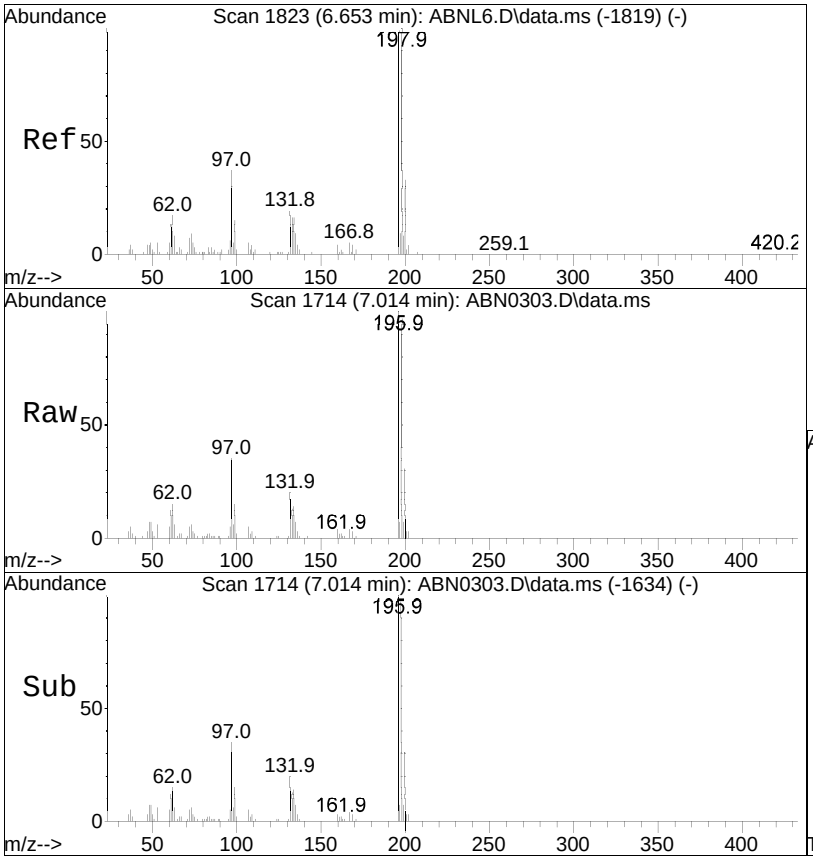


#42
2,4,6-Trichlorophenol
Concen: 5.04 ug/ml
RT: 6.983 min Scan# 1704
Delta R.T. 0.000 min
Lab File: ABN0303.D
Acq: 3 Mar 2024 12:02 pm

Tgt Ion:196 Resp: 31509

Ion	Ratio	Lower	Upper
196	100		
198	93.2	77.5	116.3
200	30.2	23.8	35.6

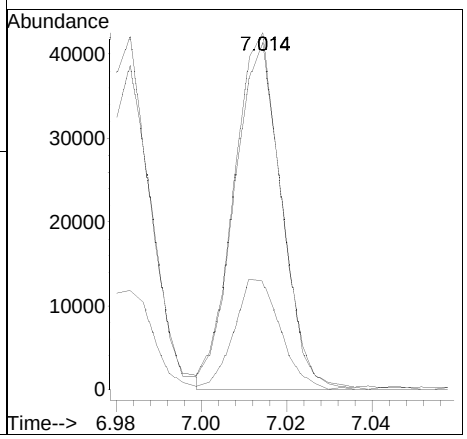


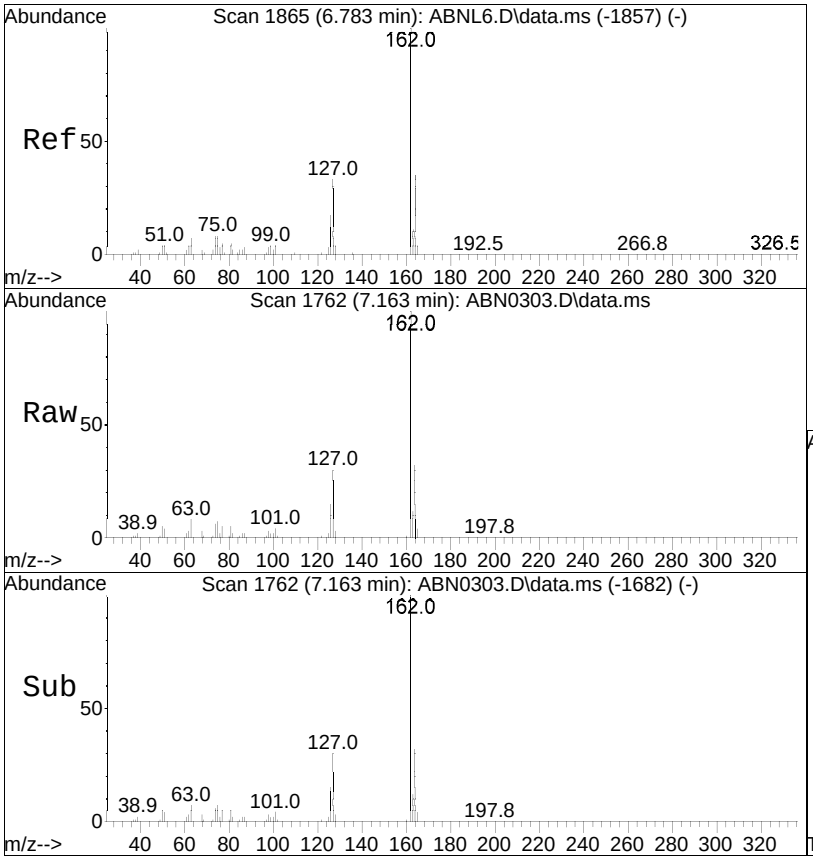


#43
2,4,5-Trichlorophenol
Concen: 4.84 ug/ml
RT: 7.014 min Scan# 1714
Delta R.T. 0.000 min
Lab File: ABN0303.D
Acq: 3 Mar 2024 12:02 pm

Tgt Ion:196 Resp: 33089

Ion	Ratio	Lower	Upper
196	100		
200	30.3	25.4	38.0
198	95.3	78.0	117.0

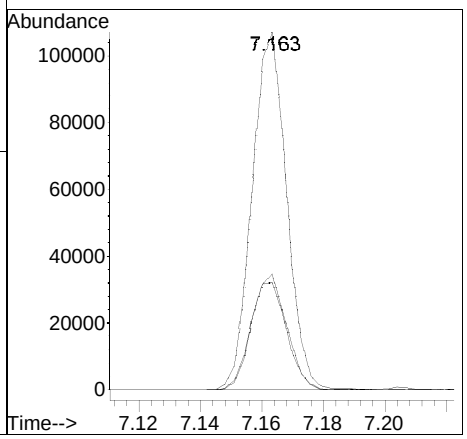


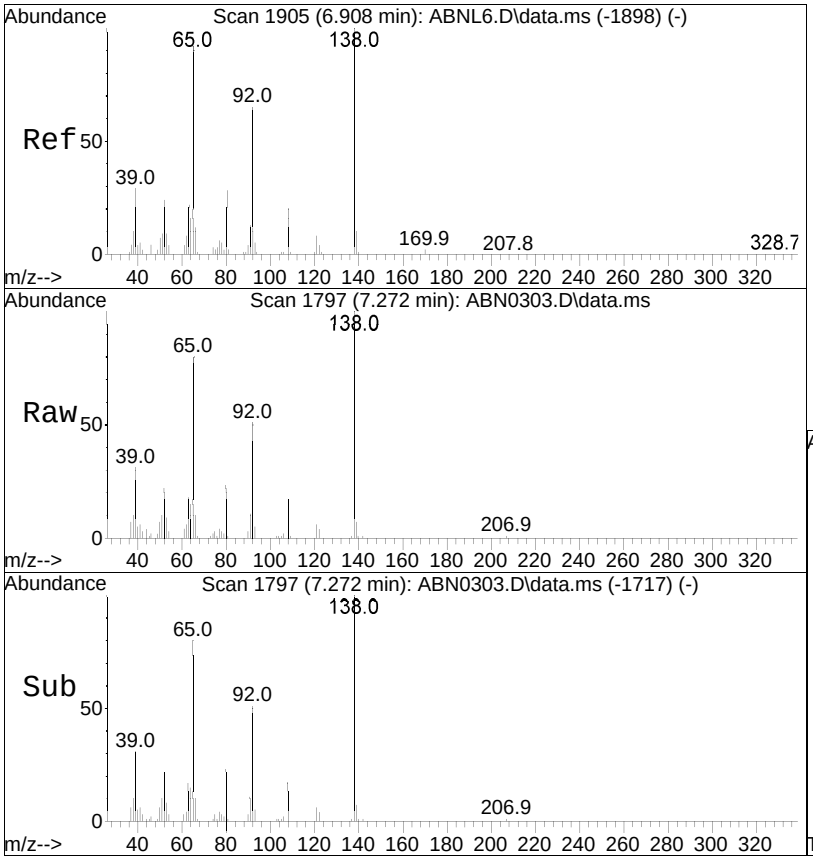


#45
2-Chloronaphthalene
Concen: 4.82 ug/ml
RT: 7.163 min Scan# 1762
Delta R.T. 0.000 min
Lab File: ABN0303.D
Acq: 3 Mar 2024 12:02 pm

Tgt Ion:162 Resp: 82710

Ion	Ratio	Lower	Upper
162	100		
127	31.9	32.2	48.4#
164	32.9	25.7	38.5

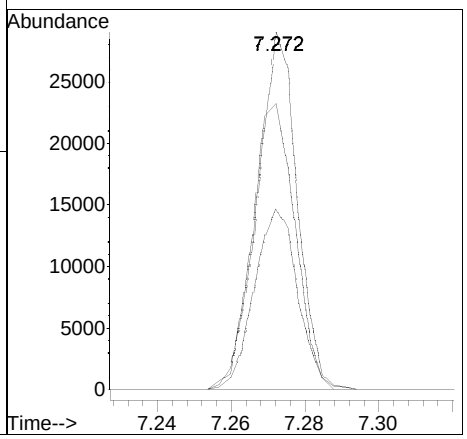


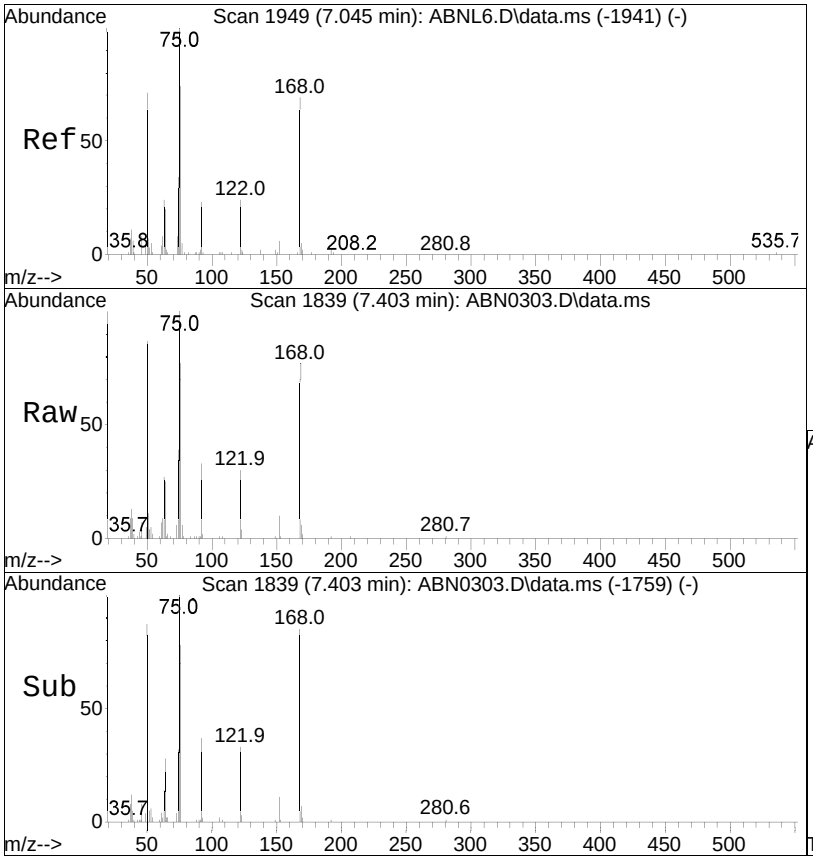


#46
2-Nitroaniline
Concen: 4.88 ug/ml
RT: 7.272 min Scan# 1797
Delta R.T. 0.000 min
Lab File: ABN0303.D
Acq: 3 Mar 2024 12:02 pm

Tgt Ion:138 Resp: 21751

Ion	Ratio	Lower	Upper
138	100		
92	54.5	53.5	80.3
65	86.2	86.3	129.5#

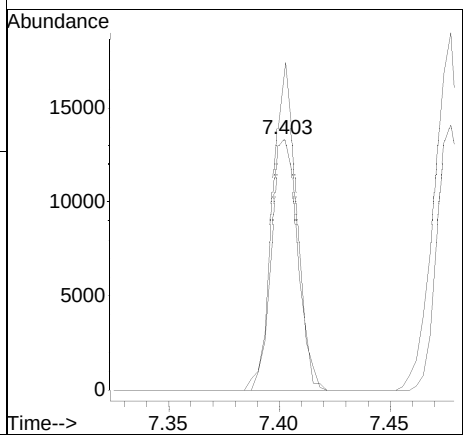


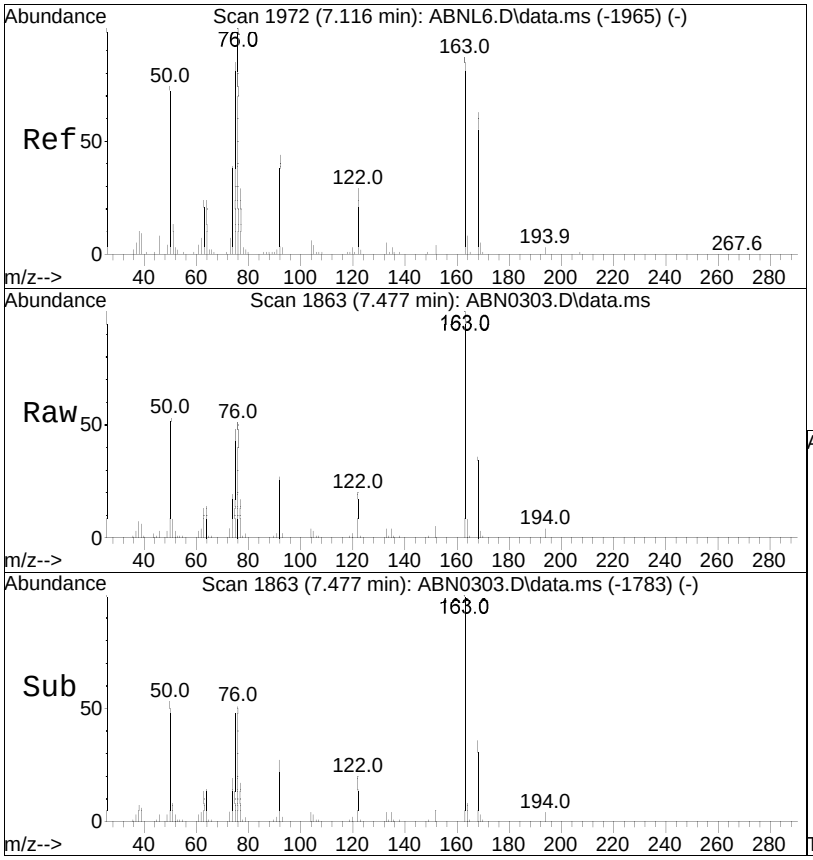


#47
1,4-Dinitrobenzene
Concen: 5.46 ug/ml M3
RT: 7.403 min Scan# 1839
Delta R.T. 0.000 min
Lab File: ABN0303.D
Acq: 3 Mar 2024 12:02 pm

Tgt Ion:168 Resp: 10975

Ion	Ratio	Lower	Upper
168	100		
75	146.5	121.8	182.8

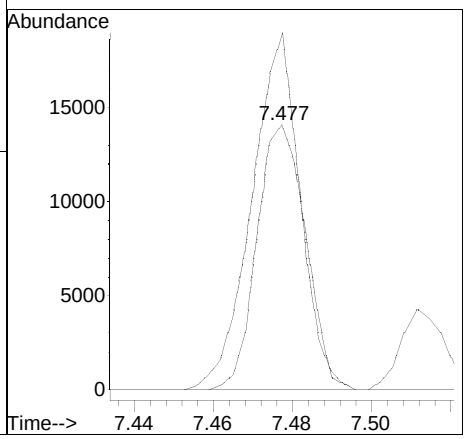


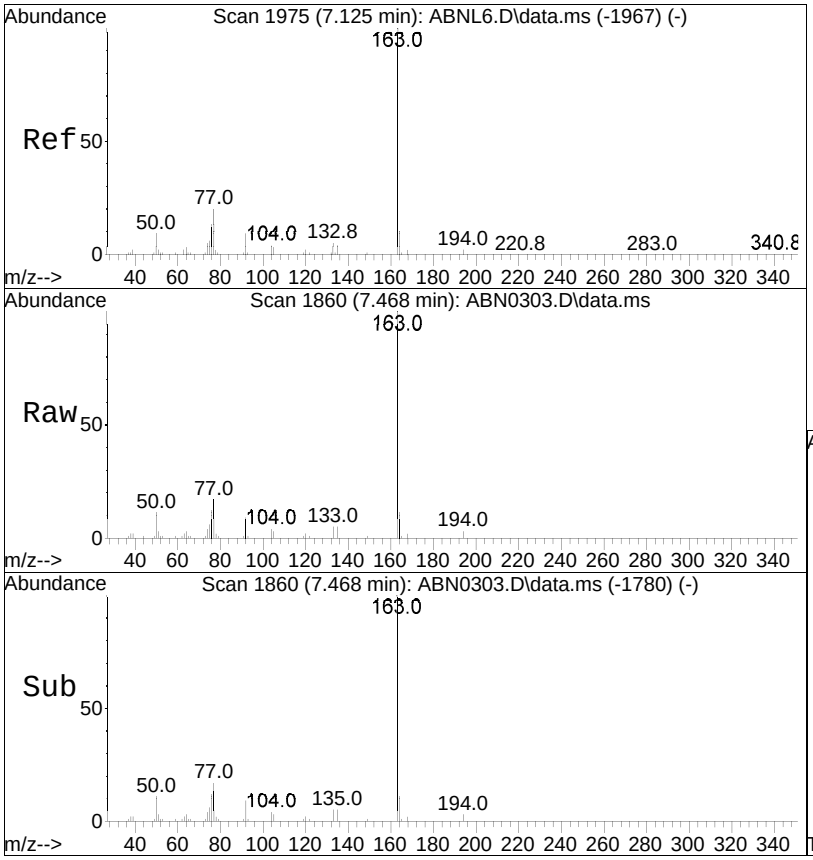


#48
1,3-Dinitrobenzene
Concen: 5.00 ug/ml
RT: 7.477 min Scan# 1863
Delta R.T. 0.000 min
Lab File: ABN0303.D
Acq: 3 Mar 2024 12:02 pm

Tgt Ion:168 Resp: 11988

Ion	Ratio	Lower	Upper
168	100		
75	134.1	22.7	34.1#

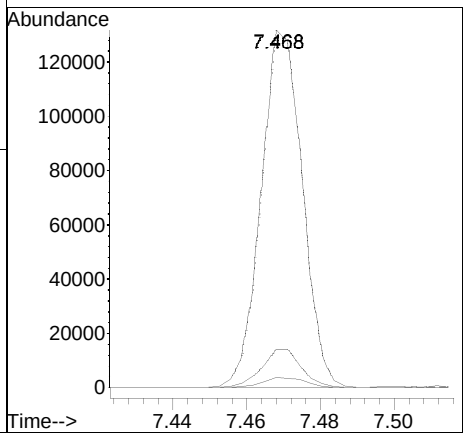


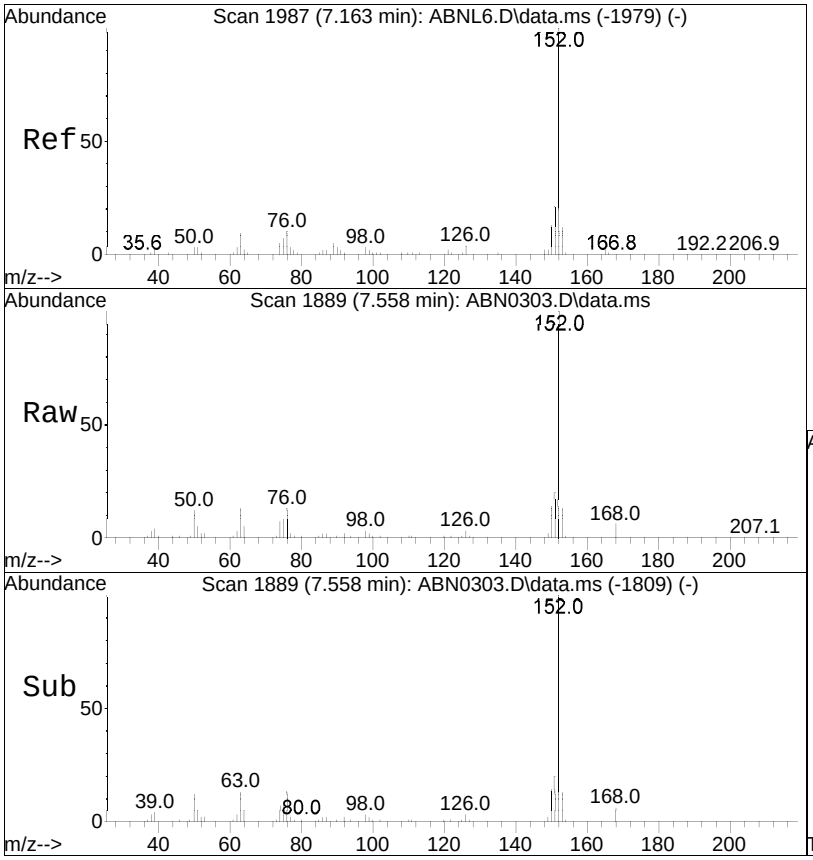


#49
Dimethyl phthalate
Concen: 5.20 ug/ml
RT: 7.468 min Scan# 1860
Delta R.T. 0.000 min
Lab File: ABN0303.D
Acq: 3 Mar 2024 12:02 pm

Tgt Ion:163 Resp: 100827

Ion	Ratio	Lower	Upper
163	100		
194	2.7	3.5	5.3#
164	10.5	7.9	11.9

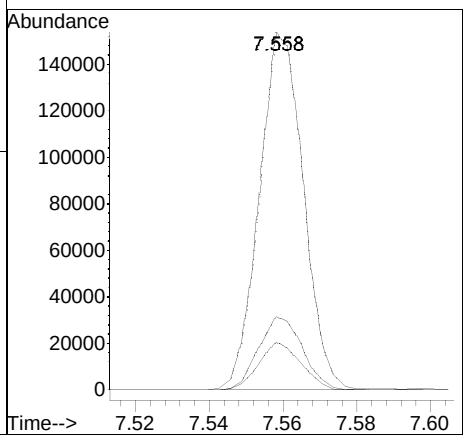


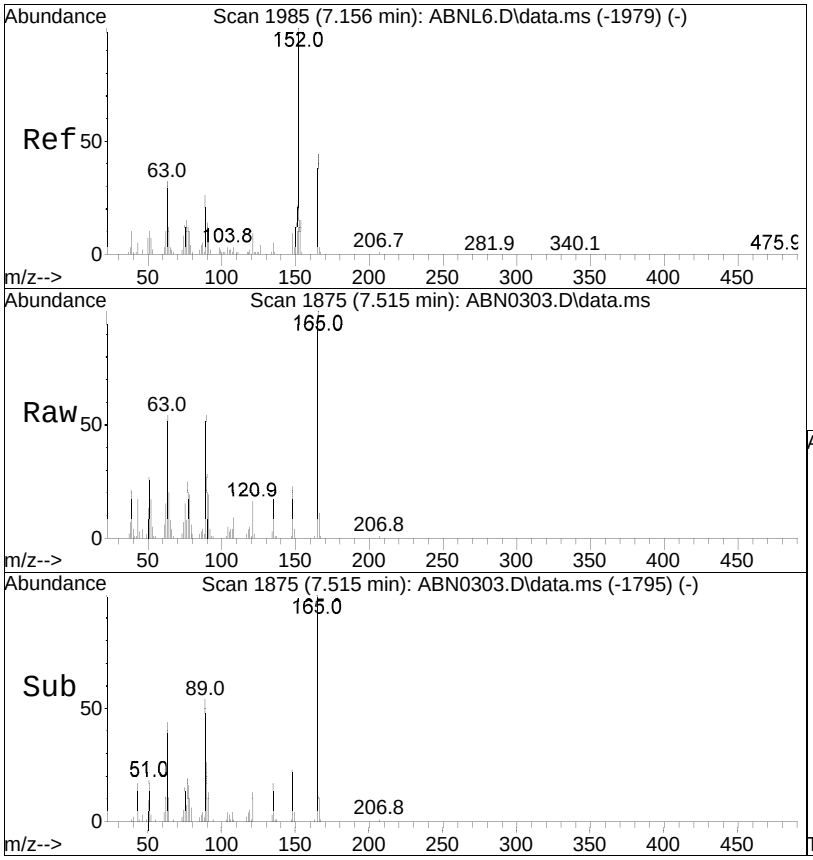


#50
Acenaphthylene
Concen: 4.87 ug/ml
RT: 7.558 min Scan# 1889
Delta R.T. 0.000 min
Lab File: ABN0303.D
Acq: 3 Mar 2024 12:02 pm

Tgt Ion:152 Resp: 126373

Ion	Ratio	Lower	Upper
152	100		
151	20.4	15.8	23.6
153	12.8	10.5	15.7

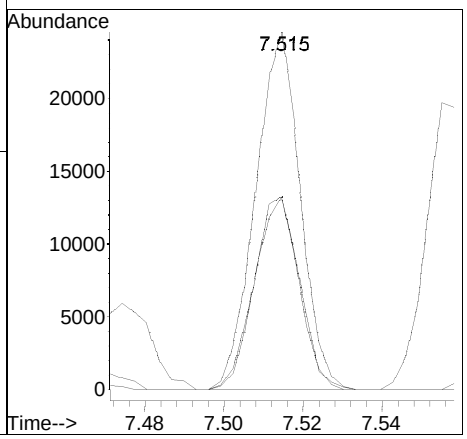


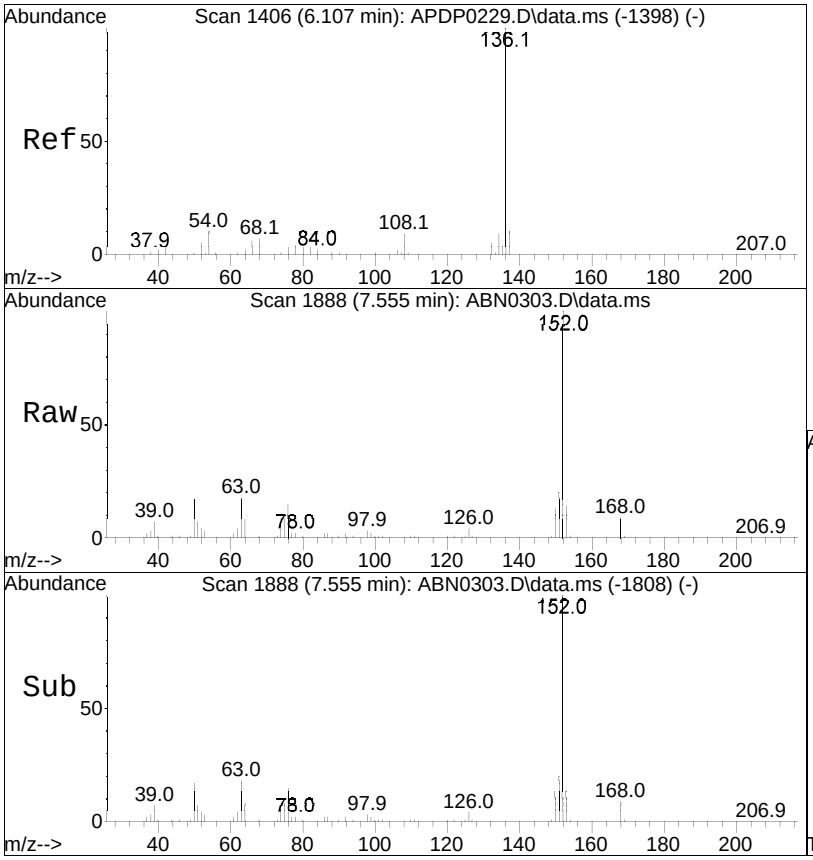


#51
2,6-Dinitrotoluene
Concen: 5.08 ug/ml
RT: 7.515 min Scan# 1875
Delta R.T. 0.000 min
Lab File: ABN0303.D
Acq: 3 Mar 2024 12:02 pm

Tgt Ion:165 Resp: 19280

Ion	Ratio	Lower	Upper
165	100		
89	52.8	54.2	81.2#
63	55.3	64.2	96.2#

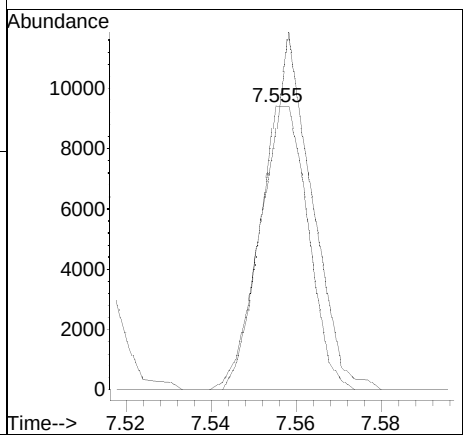


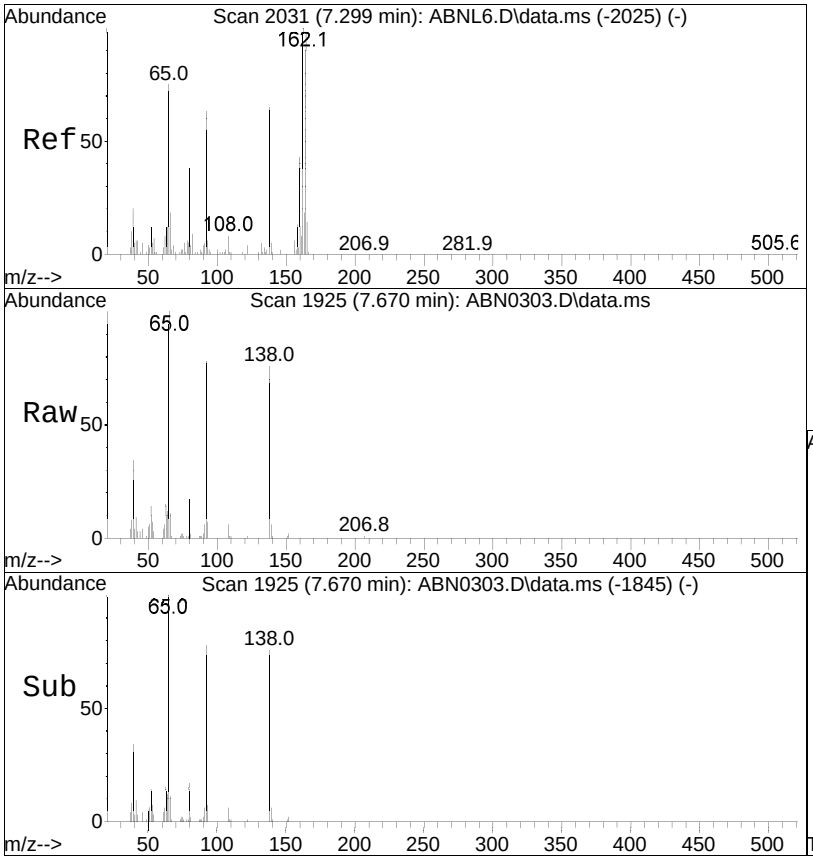


#52
1,2-Dinitrobenzene
Concen: 5.00 ug/ml
RT: 7.555 min Scan# 1888
Delta R.T. 0.000 min
Lab File: ABN0303.D
Acq: 3 Mar 2024 12:02 pm

Tgt Ion:168 Resp: 7592

Ion	Ratio	Lower	Upper
168	100		
75	118.1	30.9	46.3#

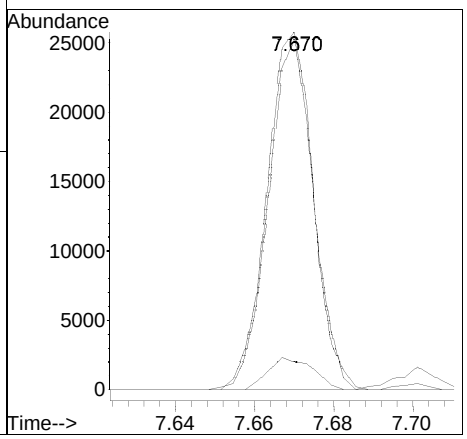


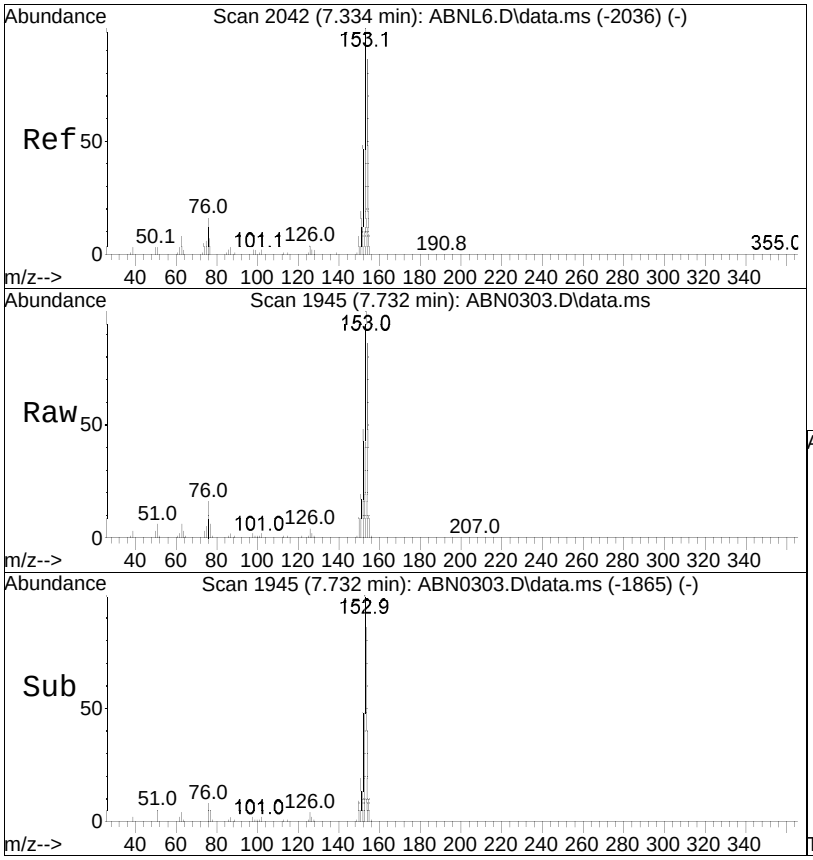


#62
3-Nitroaniline
Concen: 4.70 ug/ml
RT: 7.670 min Scan# 1925
Delta R.T. 0.000 min
Lab File: ABN0303.D
Acq: 3 Mar 2024 12:02 pm

Tgt Ion:138 Resp: 19799

Ion	Ratio	Lower	Upper
138	100		
92	105.1	93.4	140.2
108	9.1	9.5	14.3#

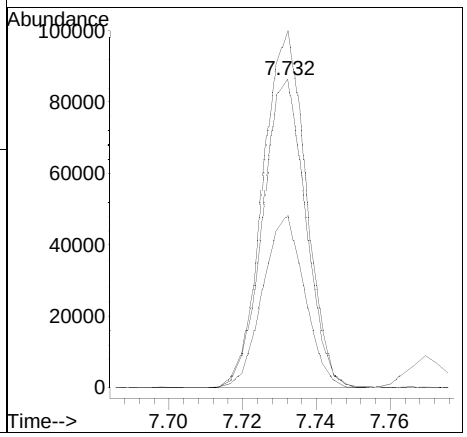


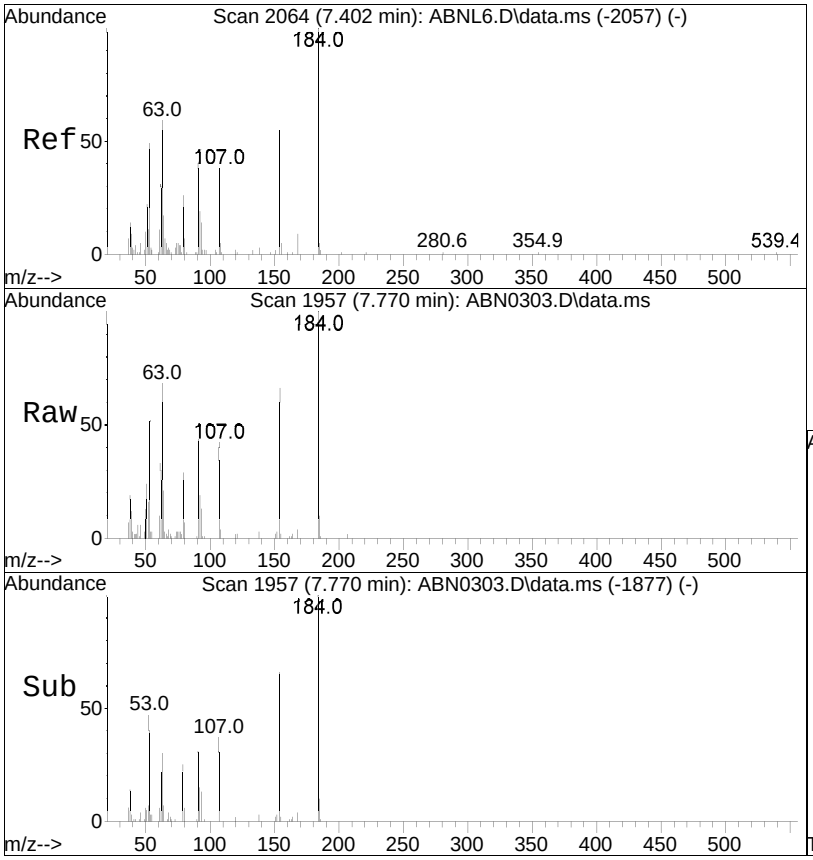


#63
Acenaphthene
Concen: 4.65 ug/ml
RT: 7.732 min Scan# 1945
Delta R.T. 0.000 min
Lab File: ABN0303.D
Acq: 3 Mar 2024 12:02 pm

Tgt Ion:154 Resp: 70047

Ion	Ratio	Lower	Upper
154	100		
153	116.6	85.3	127.9
152	54.2	41.4	62.0

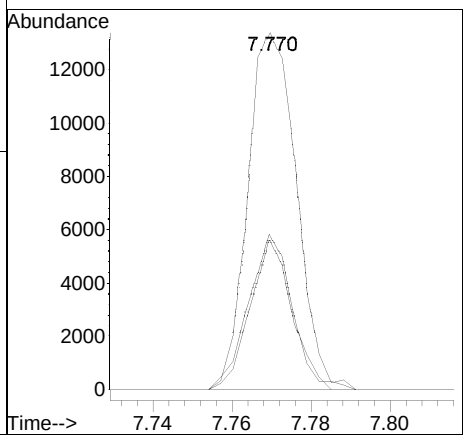


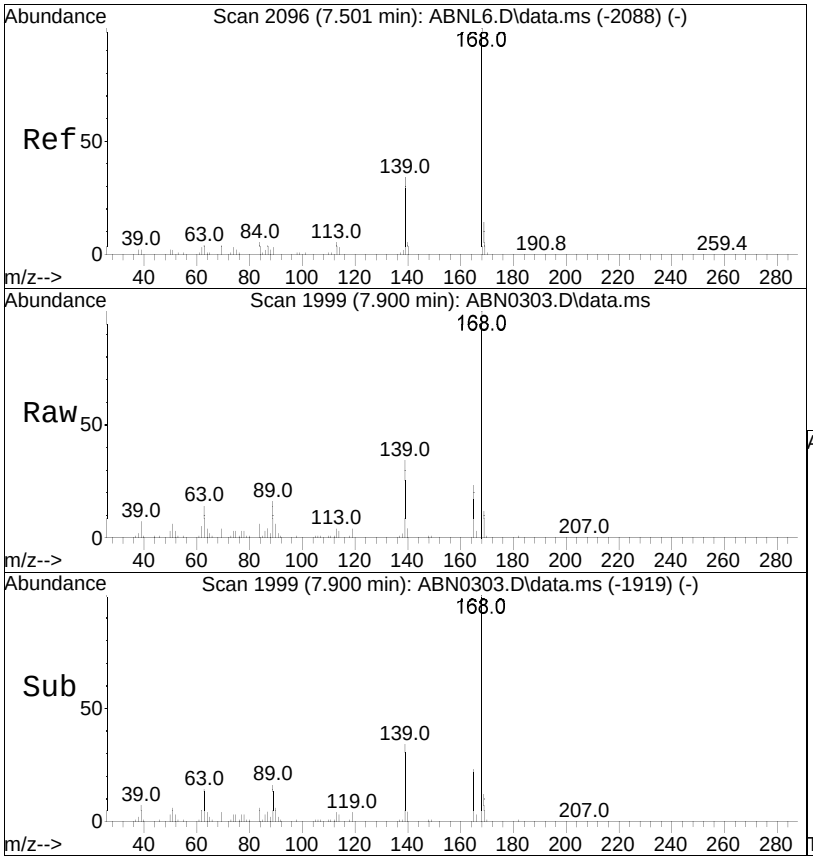


#64
2,4-Dinitrophenol
Concen: 5.02 ug/ml
RT: 7.770 min Scan# 1957
Delta R.T. 0.000 min
Lab File: ABN0303.D
Acq: 3 Mar 2024 12:02 pm

Tgt Ion:184 Resp: 11329

Ion	Ratio	Lower	Upper
184	100		
107	36.2	37.7	56.5#
91	39.4	46.3	69.5#

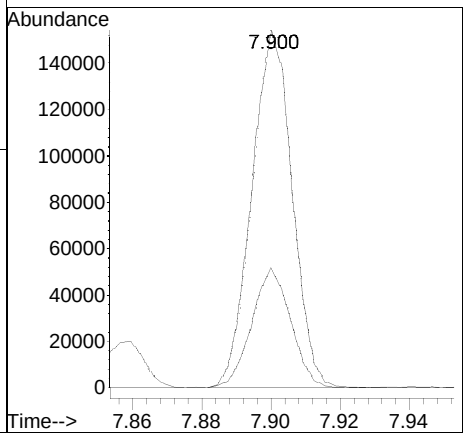


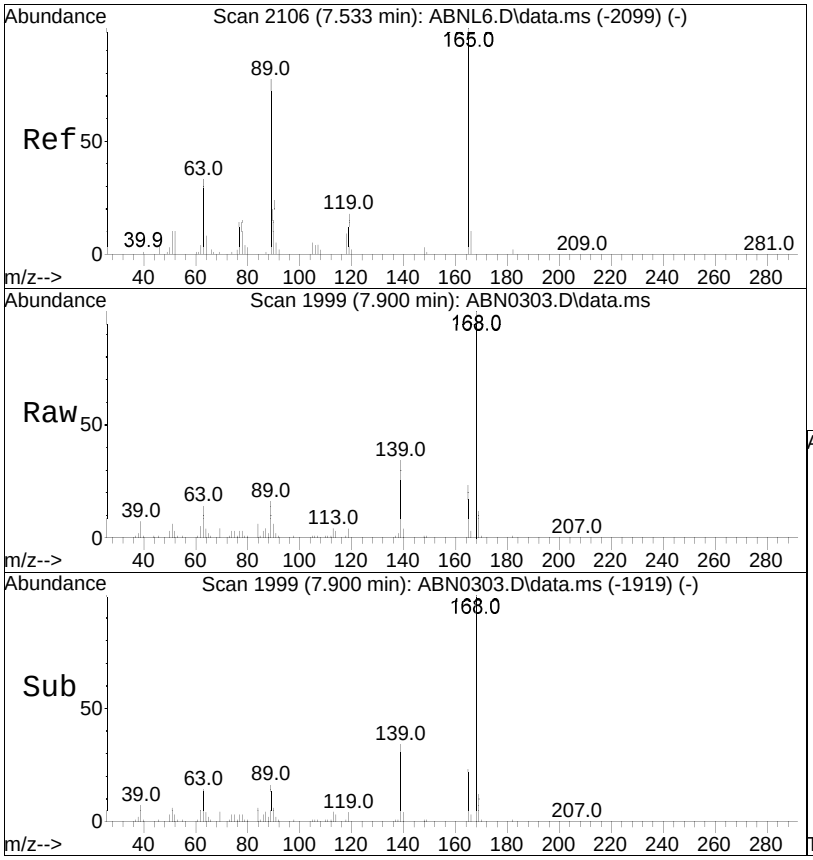


#65
Dibenzofuran
Concen: 4.76 ug/ml
RT: 7.900 min Scan# 1999
Delta R.T. 0.000 min
Lab File: ABN0303.D
Acq: 3 Mar 2024 12:02 pm

Tgt Ion:168 Resp: 123980

Ion	Ratio	Lower	Upper
168	100		
139	32.5	31.4	47.2

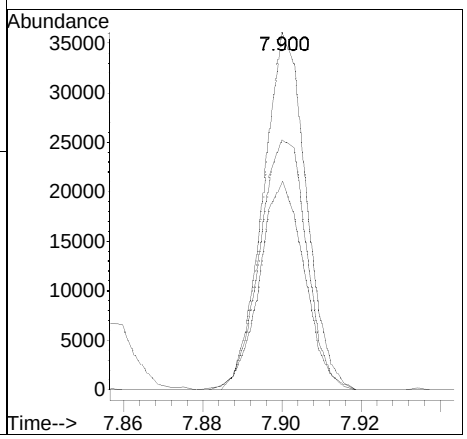


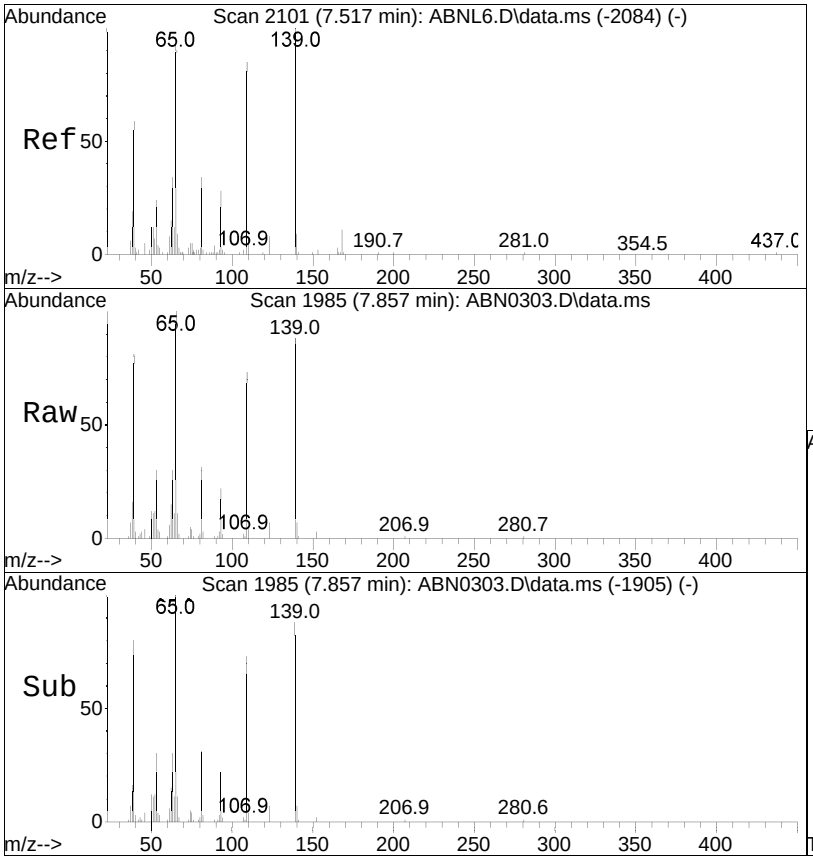


#66
2,4-Dinitrotoluene
Concen: 4.86 ug/ml
RT: 7.900 min Scan# 1999
Delta R.T. 0.000 min
Lab File: ABN0303.D
Acq: 3 Mar 2024 12:02 pm

Tgt Ion:165 Resp: 27286

Ion	Ratio	Lower	Upper
165	100		
89	75.2	72.0	108.0
63	60.8	52.7	79.1

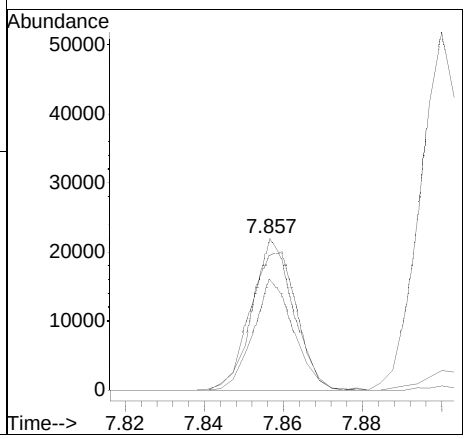


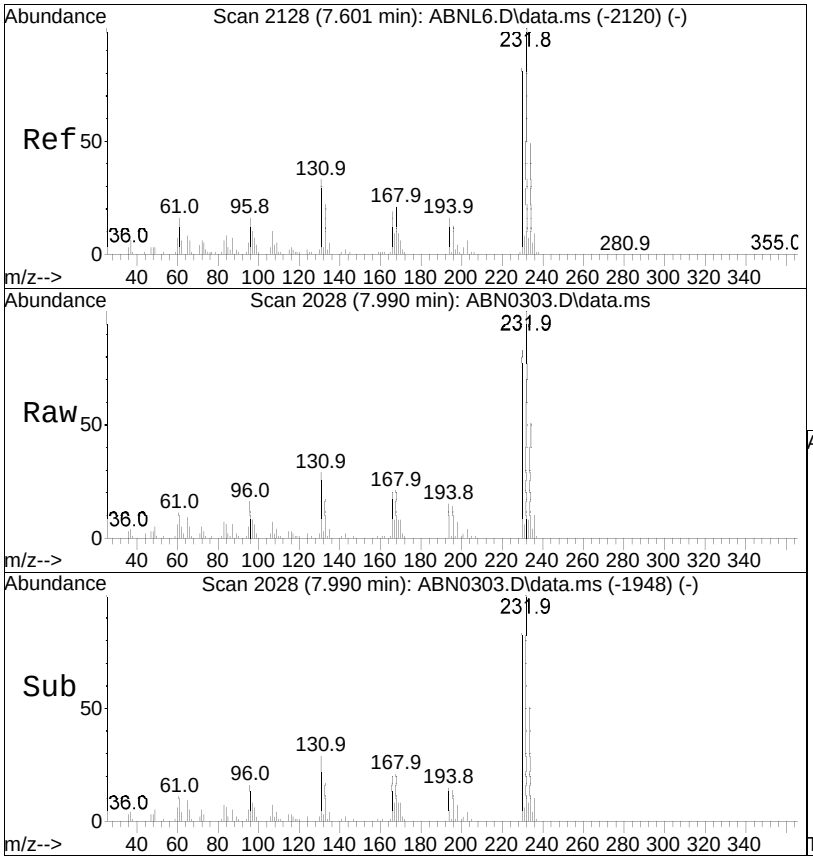


#67
4-Nitrophenol
Concen: 4.65 ug/ml
RT: 7.857 min Scan# 1985
Delta R.T. 0.000 min
Lab File: ABN0303.D
Acq: 3 Mar 2024 12:02 pm

Tgt Ion: 65 Resp: 16174

Ion	Ratio	Lower	Upper
65	100		
109	70.2	47.4	71.2
139	98.6	76.6	115.0

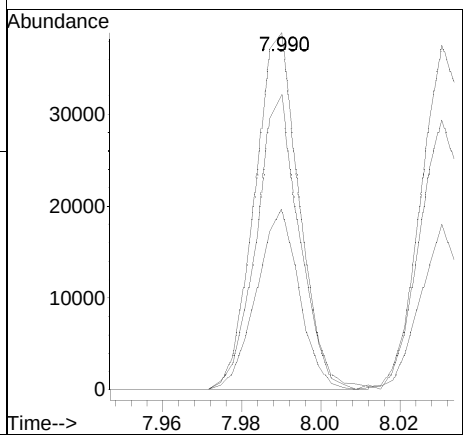


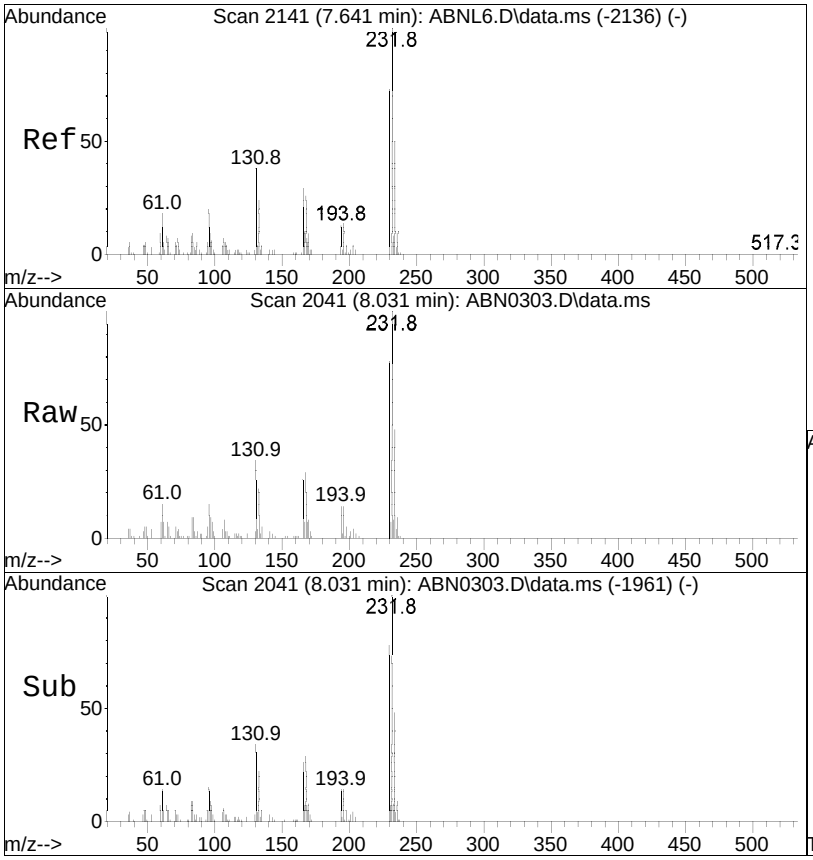


#68
2,3,5,6-Tetrachlorophenol
Concen: 5.00 ug/ml
RT: 7.990 min Scan# 2028
Delta R.T. 0.000 min
Lab File: ABN0303.D
Acq: 3 Mar 2024 12:02 pm

Tgt Ion:232 Resp: 30565

Ion	Ratio	Lower	Upper
232	100		
230	79.5	64.2	96.4
234	48.4	38.1	57.1

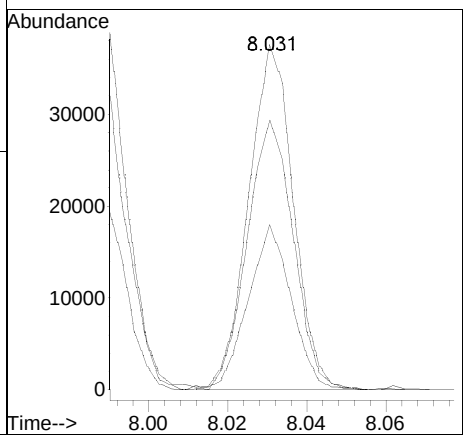


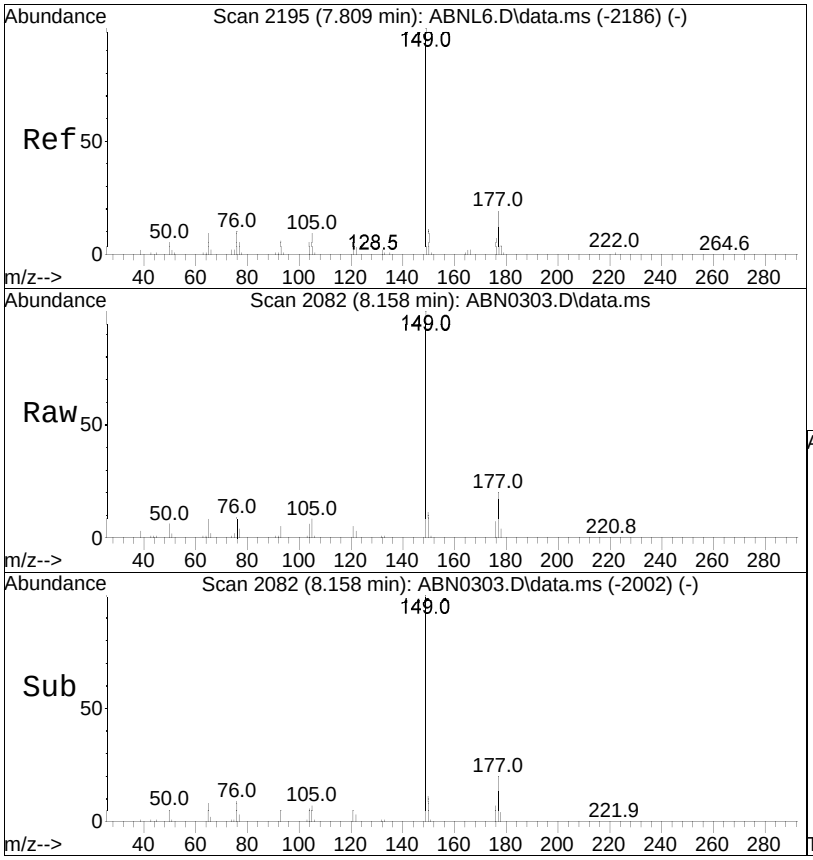


#69
2,3,4,6-Tetrachlorophenol
Concen: 5.06 ug/ml
RT: 8.031 min Scan# 2041
Delta R.T. 0.000 min
Lab File: ABN0303.D
Acq: 3 Mar 2024 12:02 pm

Tgt Ion:232 Resp: 29634

Ion	Ratio	Lower	Upper
232	100		
230	80.7	61.8	92.8
234	46.4	36.2	54.2

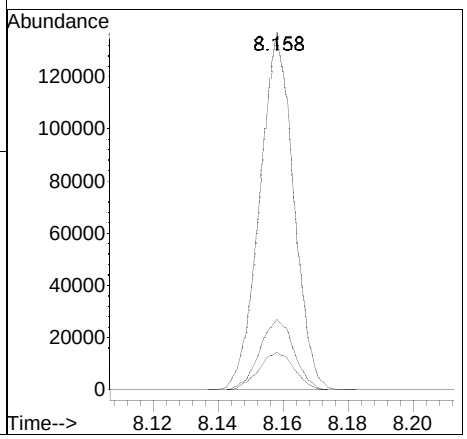


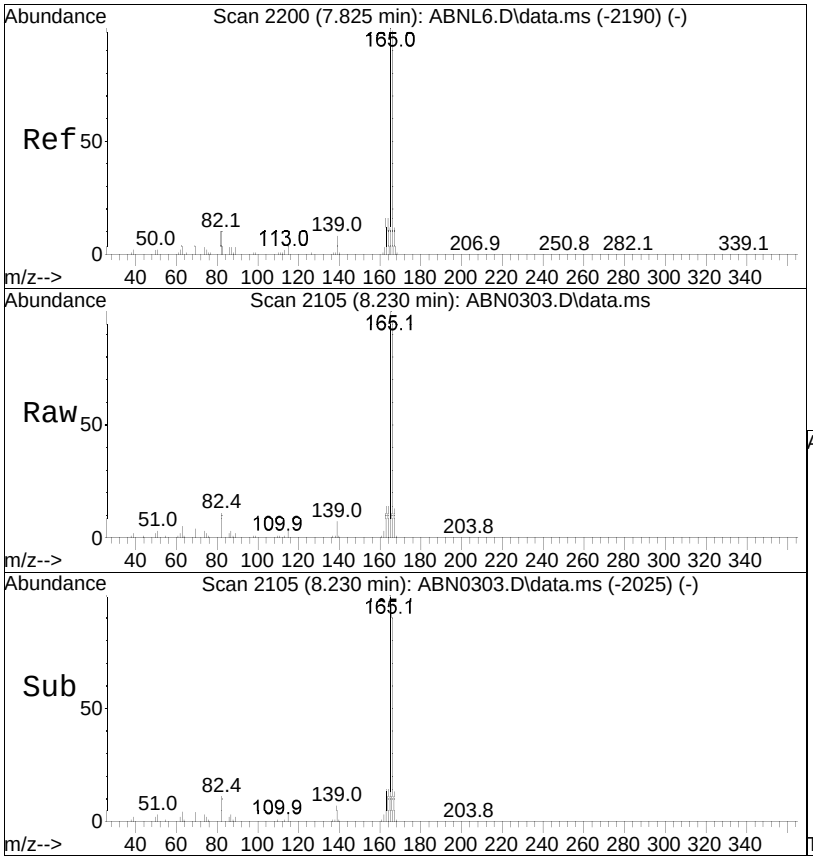


#70
Diethyl phthalate
Concen: 4.95 ug/ml
RT: 8.158 min Scan# 2082
Delta R.T. 0.000 min
Lab File: ABN0303.D
Acq: 3 Mar 2024 12:02 pm

Tgt Ion:149 Resp: 97918

Ion	Ratio	Lower	Upper
149	100		
177	20.2	16.1	24.1
150	11.3	9.4	14.2

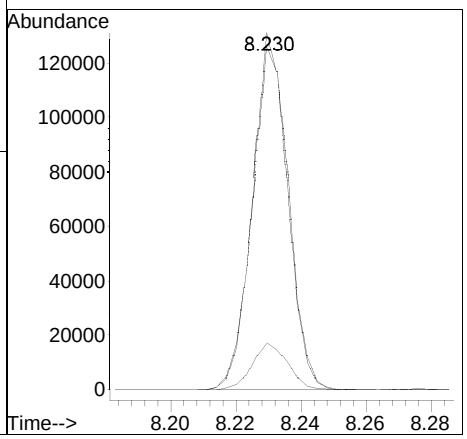


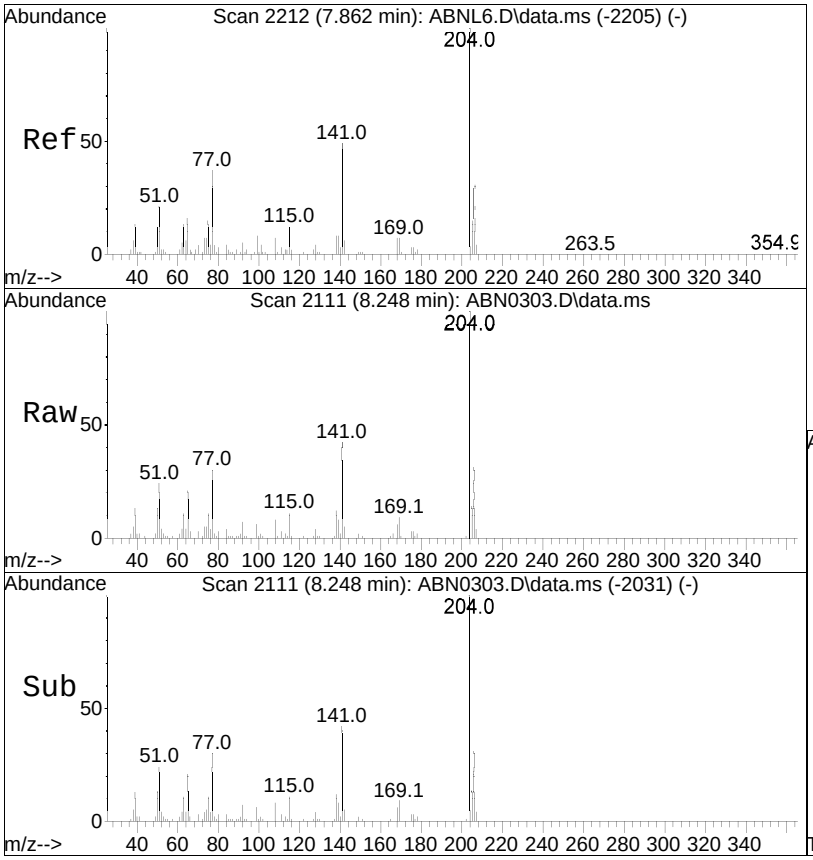


#71
Fluorene
Concen: 4.84 ug/ml
RT: 8.230 min Scan# 2105
Delta R.T. 0.000 min
Lab File: ABN0303.D
Acq: 3 Mar 2024 12:02 pm

Tgt Ion:166 Resp: 96457

Ion	Ratio	Lower	Upper
166	100		
165	103.1	76.2	114.2
167	13.6	10.6	15.8

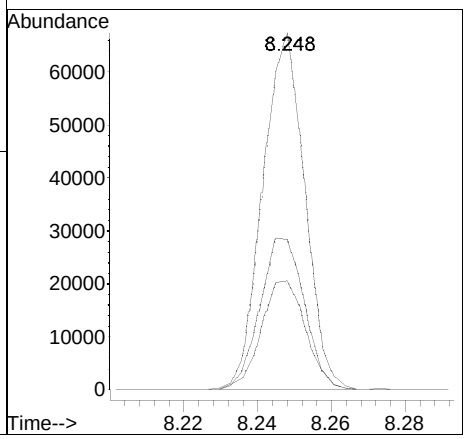


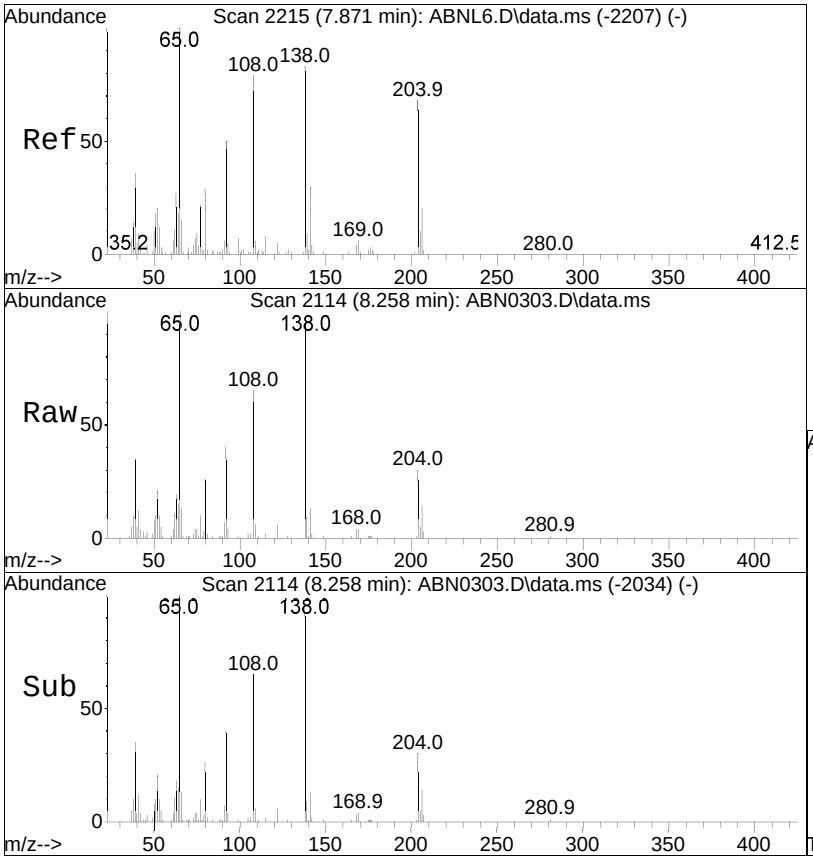


#72
4-Chlorophenyl phenyl ether
Concen: 5.03 ug/ml
RT: 8.248 min Scan# 2111
Delta R.T. 0.000 min
Lab File: ABN0303.D
Acq: 3 Mar 2024 12:02 pm

Tgt Ion:204 Resp: 52967

Ion	Ratio	Lower	Upper
204	100		
206	32.6	25.8	38.6
141	45.0	53.6	80.4#

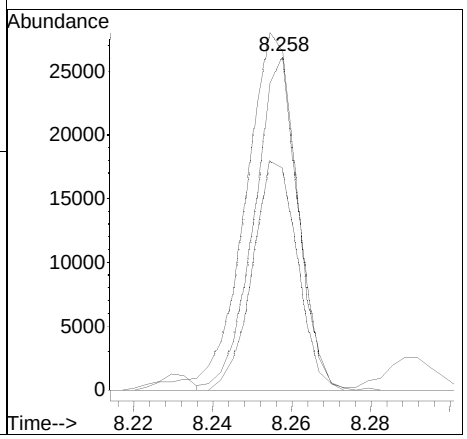


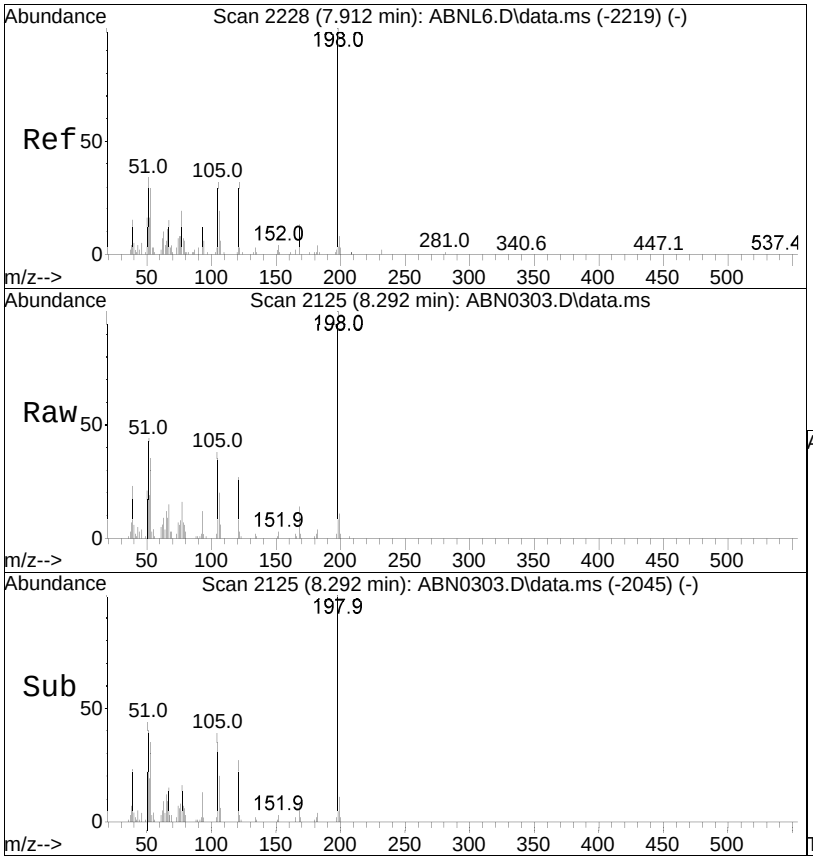


#73
4-Nitroaniline
Concen: 4.82 ug/ml
RT: 8.258 min Scan# 2114
Delta R.T. 0.000 min
Lab File: ABN0303.D
Acq: 3 Mar 2024 12:02 pm

Tgt Ion:138 Resp: 20104

Ion	Ratio	Lower	Upper
138	100		
108	70.1	52.1	78.1
65	126.5	115.0	172.6

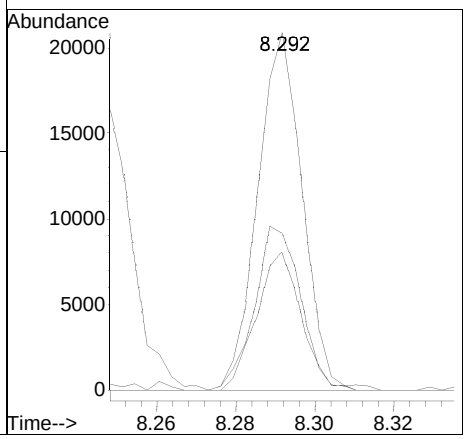


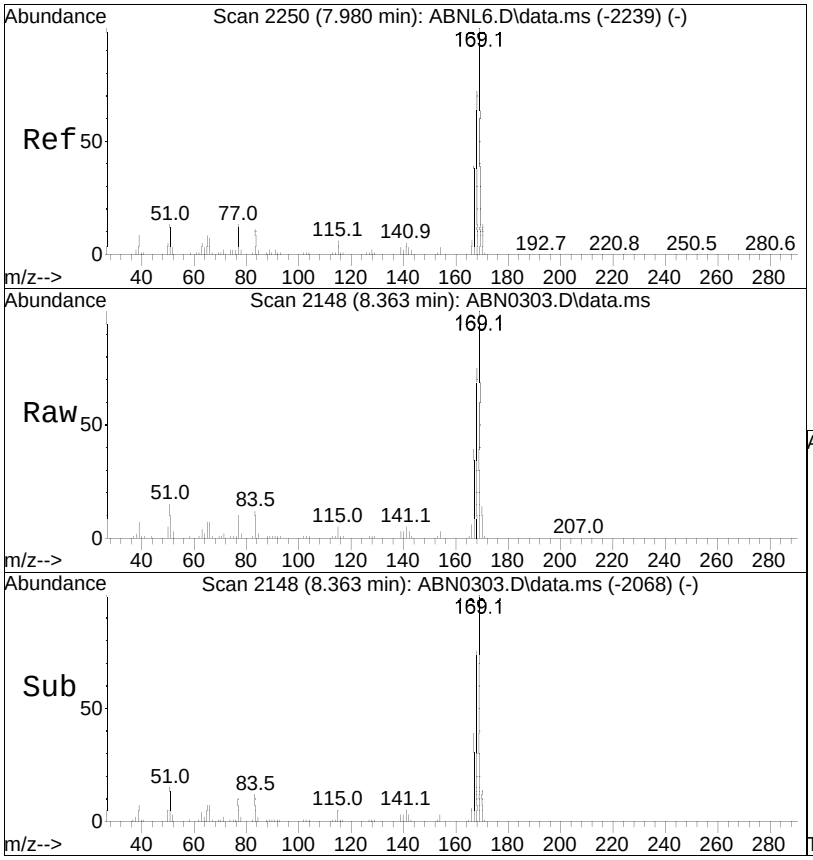


#74
4,6-Dinitro-o-cresol
Concen: 5.07 ug/ml
RT: 8.292 min Scan# 2125
Delta R.T. 0.000 min
Lab File: ABN0303.D
Acq: 3 Mar 2024 12:02 pm

Tgt Ion:198 Resp: 16240

Ion	Ratio	Lower	Upper
198	100		
51	47.9	76.0	114.0#
105	38.8	45.6	68.4#

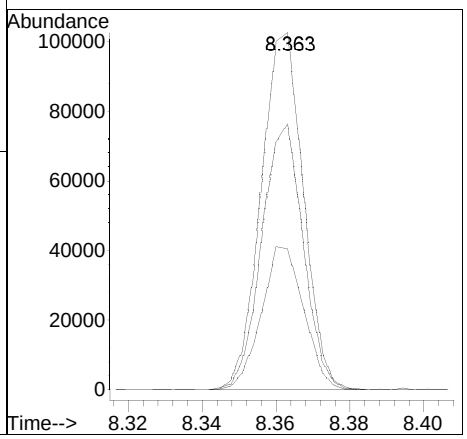


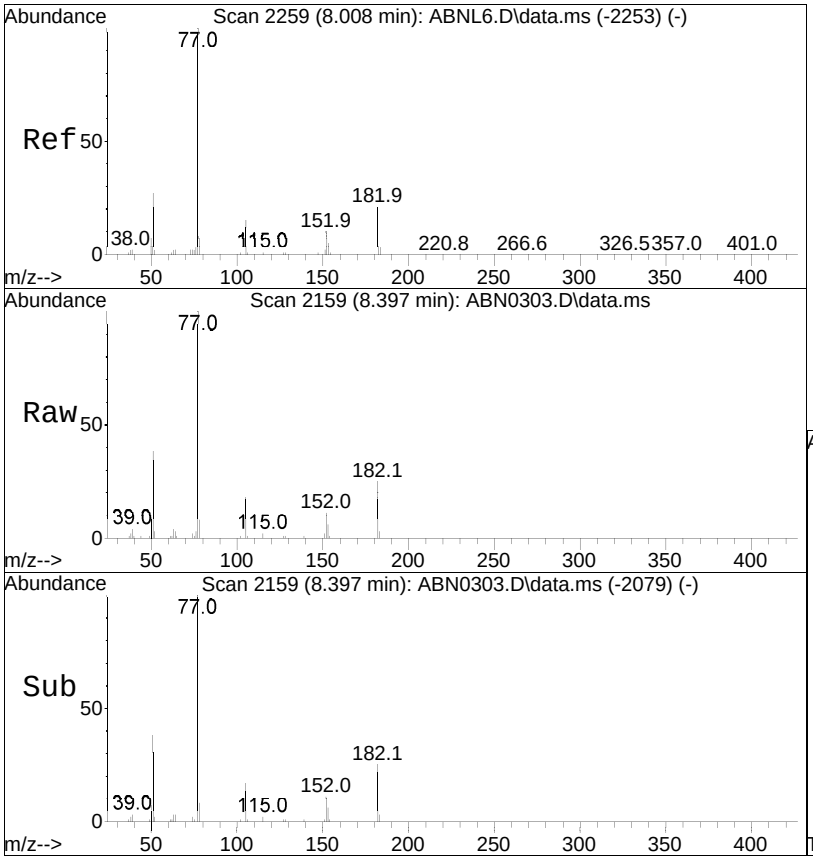


#75
NDPA/DPA
Concen: 4.93 ug/ml
RT: 8.363 min Scan# 2148
Delta R.T. 0.000 min
Lab File: ABN0303.D
Acq: 3 Mar 2024 12:02 pm

Tgt Ion:169 Resp: 81339

Ion	Ratio	Lower	Upper
169	100		
168	73.3	54.0	81.0
167	40.5	28.6	42.8

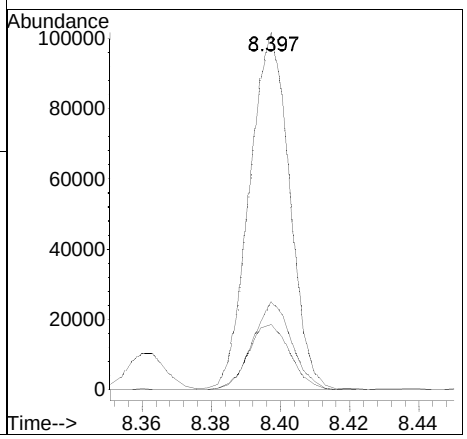


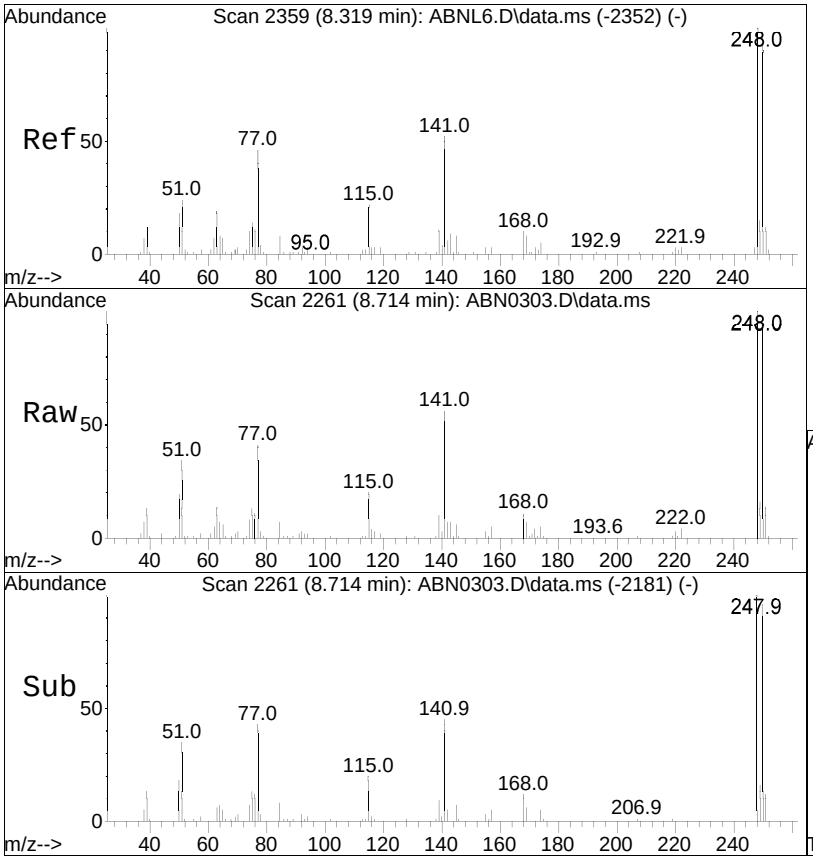


#76
Azobenzene
Concen: 4.63 ug/ml
RT: 8.397 min Scan# 2159
Delta R.T. 0.000 min
Lab File: ABN0303.D
Acq: 3 Mar 2024 12:02 pm

Tgt Ion: 77 Resp: 81259

Ion	Ratio	Lower	Upper
77	100		
182	24.1	17.4	26.2
105	19.1	15.4	23.2

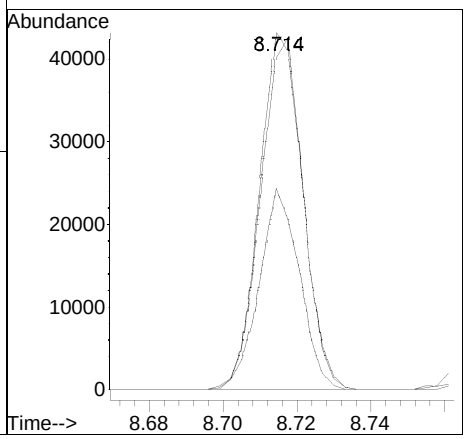


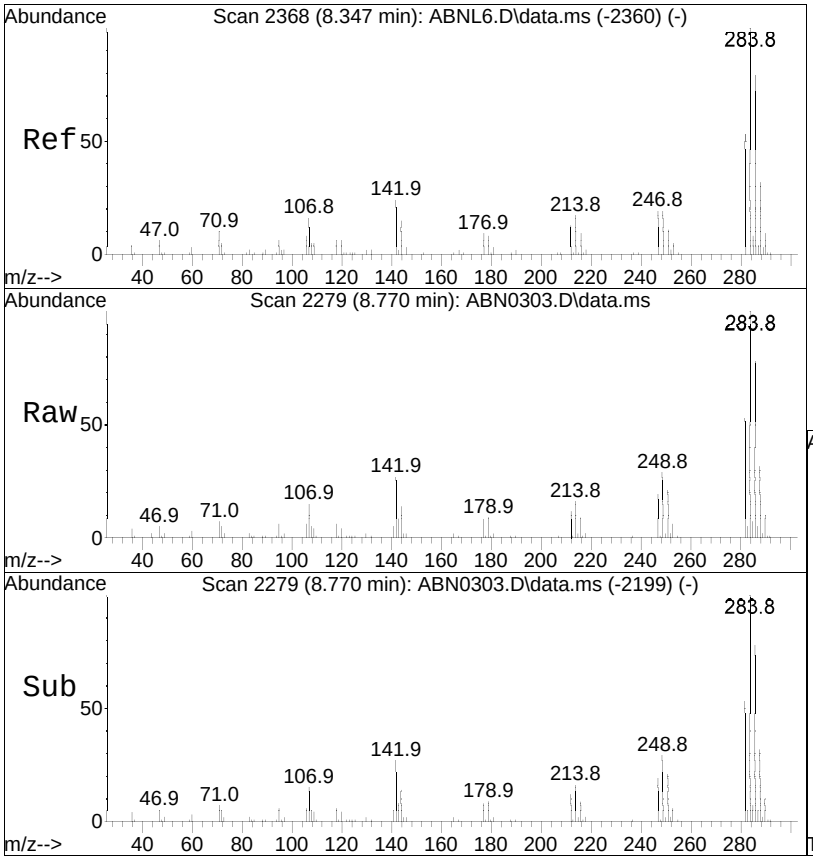


#78
4-Bromophenyl phenyl ether
Concen: 5.17 ug/ml
RT: 8.714 min Scan# 2261
Delta R.T. 0.000 min
Lab File: ABN0303.D
Acq: 3 Mar 2024 12:02 pm

Tgt Ion:248 Resp: 34780

Ion	Ratio	Lower	Upper
248	100		
141	52.7	76.6	114.8#
250	97.6	77.3	115.9

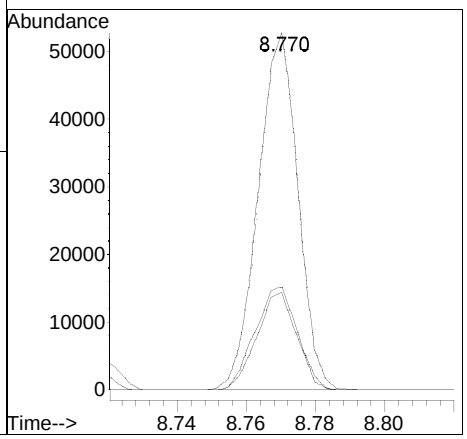


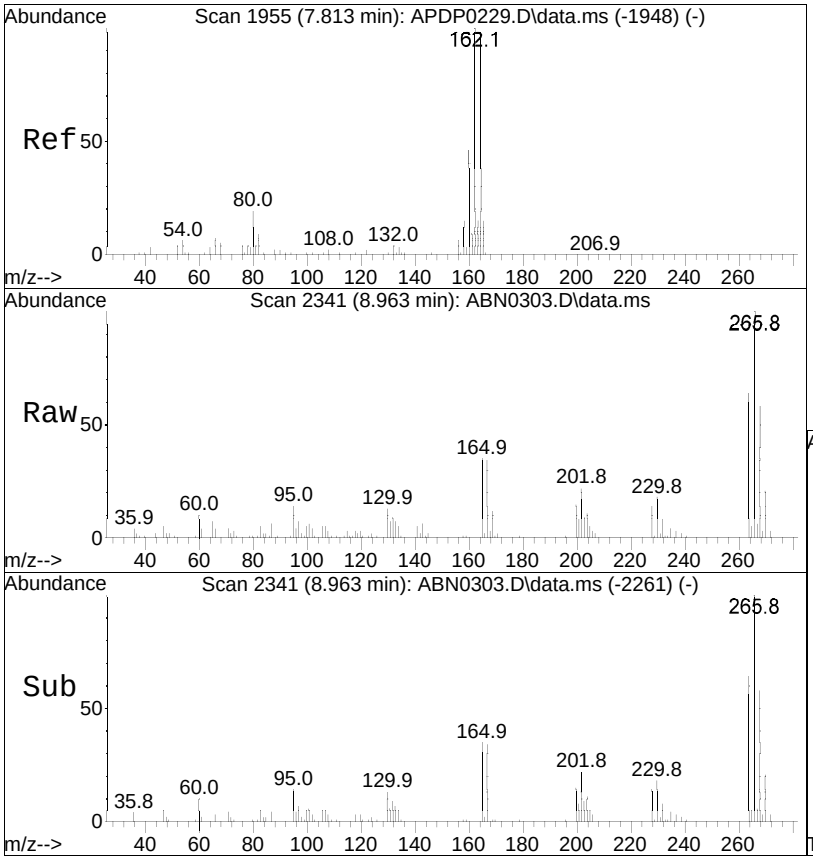


#79
Hexachlorobenzene
Concen: 5.10 ug/ml
RT: 8.770 min Scan# 2279
Delta R.T. 0.000 min
Lab File: ABN0303.D
Acq: 3 Mar 2024 12:02 pm

Tgt Ion:284 Resp: 41869

Ion	Ratio	Lower	Upper
284	100		
142	27.4	41.9	62.9#
249	30.9	24.1	36.1

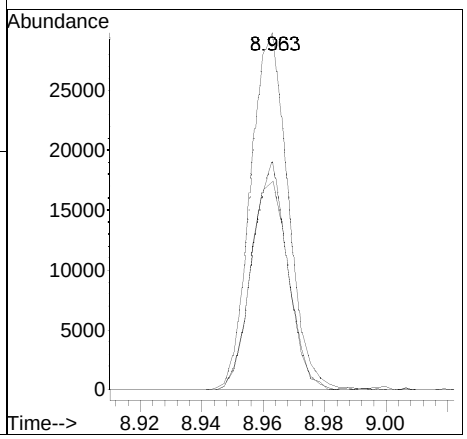


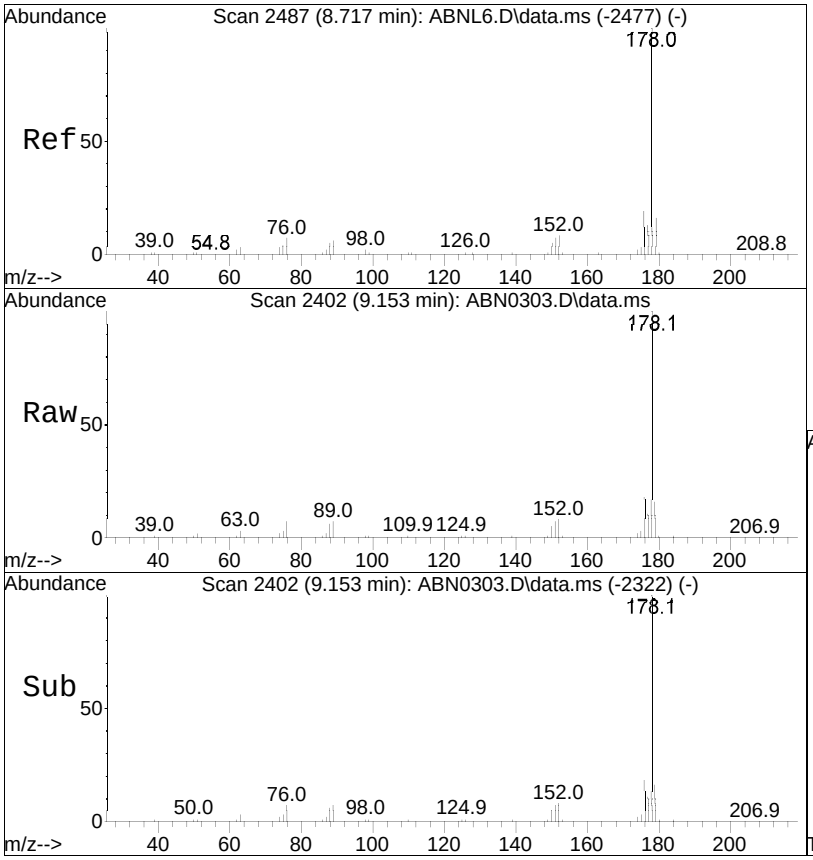


#80
Pentachlorophenol
Concen: 4.64 ug/ml
RT: 8.963 min Scan# 2341
Delta R.T. 0.000 min
Lab File: ABN0303.D
Acq: 3 Mar 2024 12:02 pm

Tgt Ion:266 Resp: 25388

Ion	Ratio	Lower	Upper
266	100		
264	60.3	49.7	74.5
268	59.4	50.5	75.7

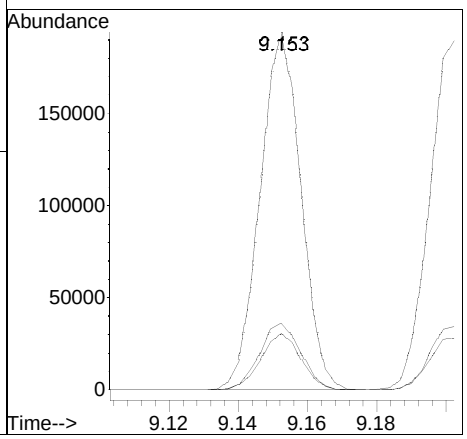


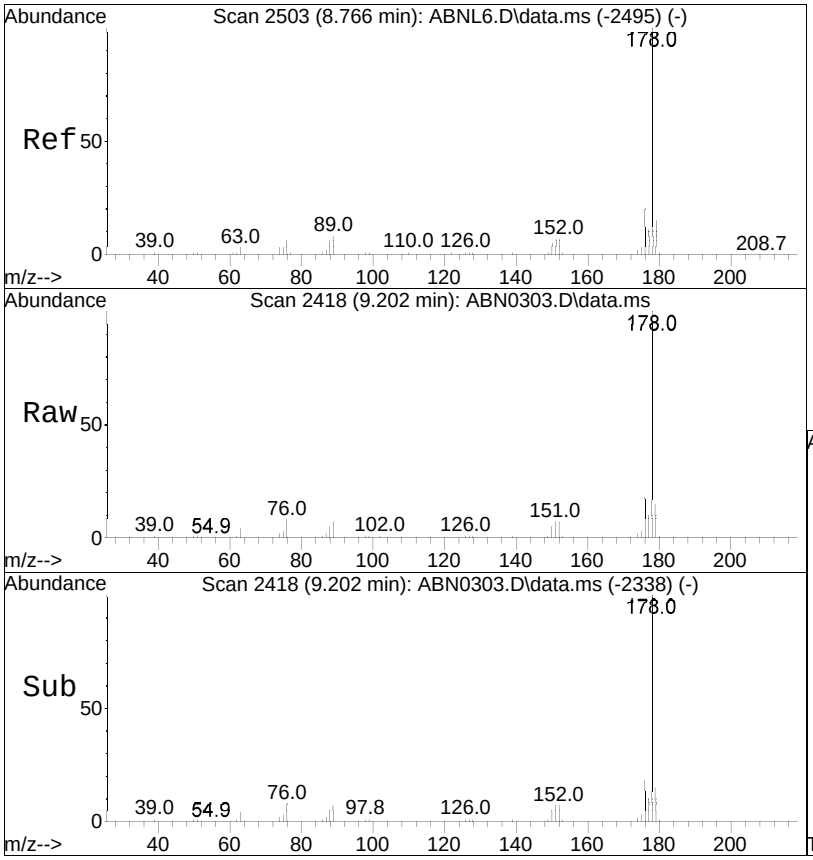


#86
Phenanthrene
Concen: 4.53 ug/ml
RT: 9.153 min Scan# 2402
Delta R.T. 0.000 min
Lab File: ABN0303.D
Acq: 3 Mar 2024 12:02 pm

Tgt Ion:178 Resp: 159266

Ion	Ratio	Lower	Upper
178	100		
179	15.5	12.2	18.2
176	18.7	15.4	23.2

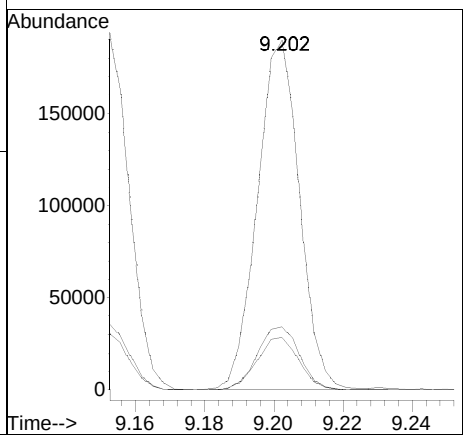


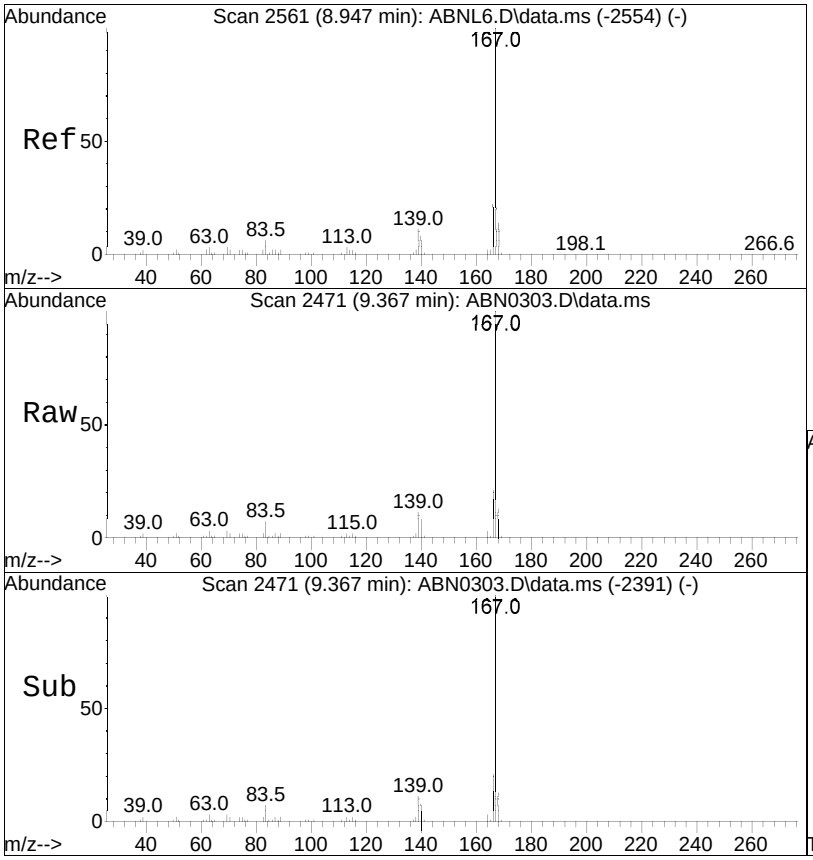


#87
Anthracene
Concen: 4.61 ug/ml
RT: 9.202 min Scan# 2418
Delta R.T. 0.000 min
Lab File: ABN0303.D
Acq: 3 Mar 2024 12:02 pm

Tgt Ion:178 Resp: 160395

Ion	Ratio	Lower	Upper
178	100		
179	14.9	12.0	18.0
176	18.1	14.6	22.0

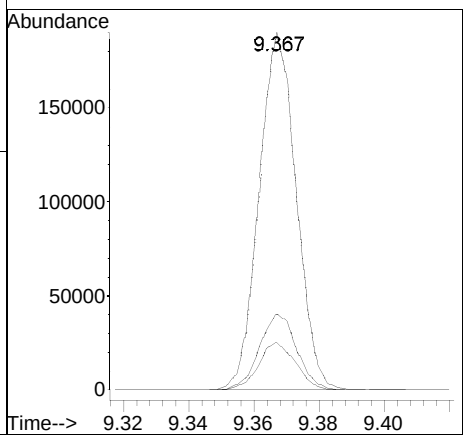


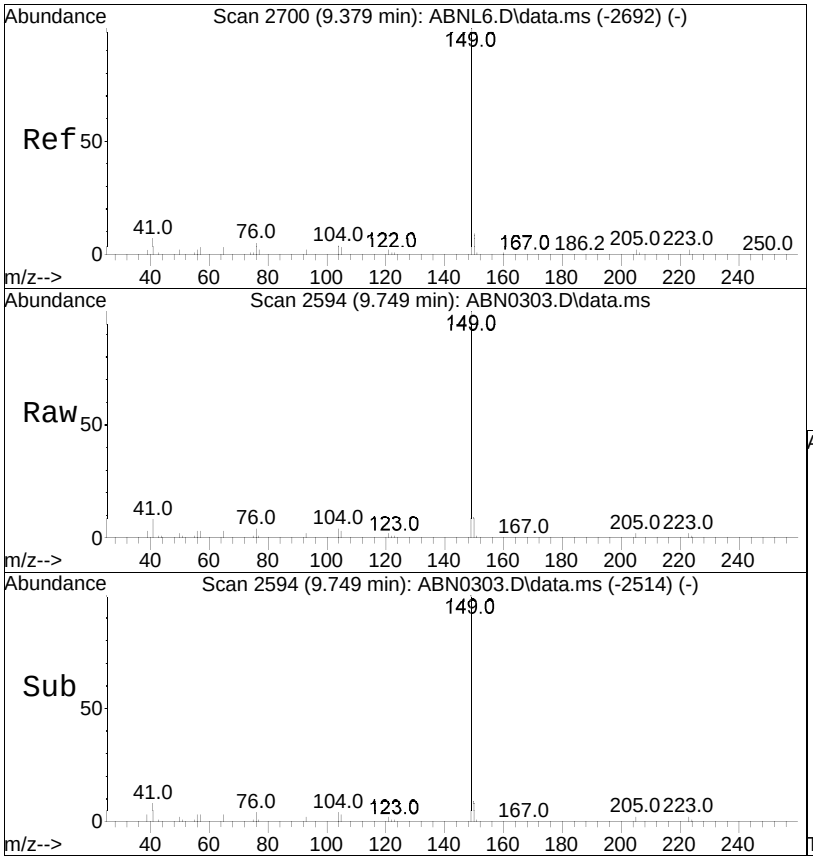


#88
Carbazole
Concen: 4.54 ug/ml
RT: 9.367 min Scan# 2471
Delta R.T. 0.000 min
Lab File: ABN0303.D
Acq: 3 Mar 2024 12:02 pm

Tgt Ion:167 Resp: 148794

Ion	Ratio	Lower	Upper
167	100		
168	13.3	10.6	15.8
166	21.4	17.4	26.0

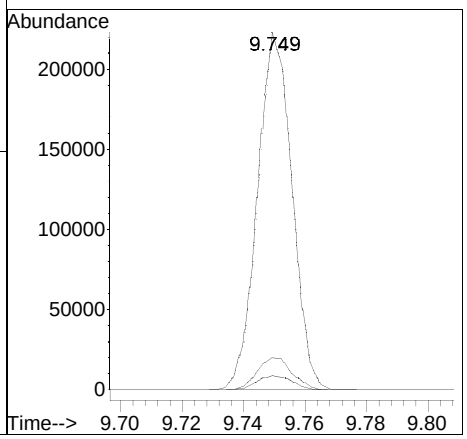


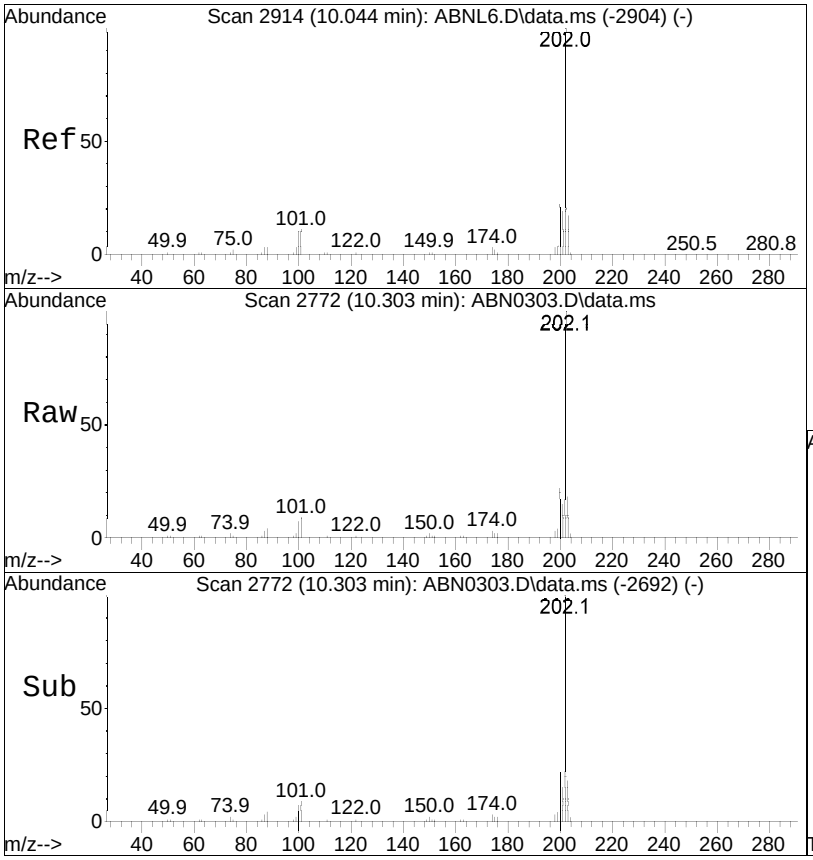


#89
Di-n-butylphthalate
Concen: 4.71 ug/ml
RT: 9.749 min Scan# 2594
Delta R.T. 0.000 min
Lab File: ABN0303.D
Acq: 3 Mar 2024 12:02 pm

Tgt Ion:149 Resp: 171359

Ion	Ratio	Lower	Upper
149	100		
150	9.1	7.0	10.6
104	4.2	4.5	6.7#

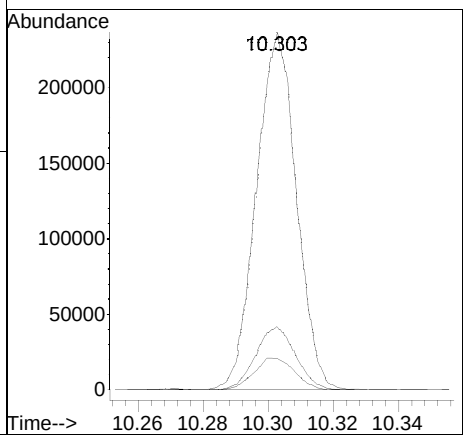


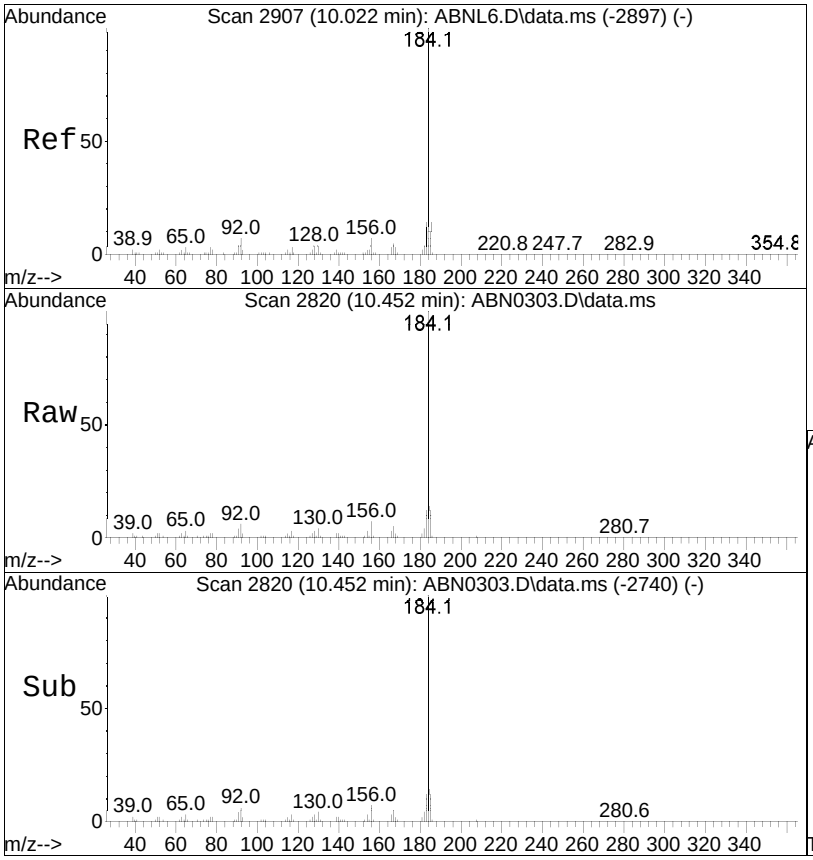


#90
Fluoranthene
Concen: 4.57 ug/ml
RT: 10.303 min Scan# 2772
Delta R.T. 0.000 min
Lab File: ABN0303.D
Acq: 3 Mar 2024 12:02 pm

Tgt Ion:202 Resp: 199747

Ion	Ratio	Lower	Upper
202	100		
101	9.1	13.5	20.3#
203	17.7	13.6	20.4

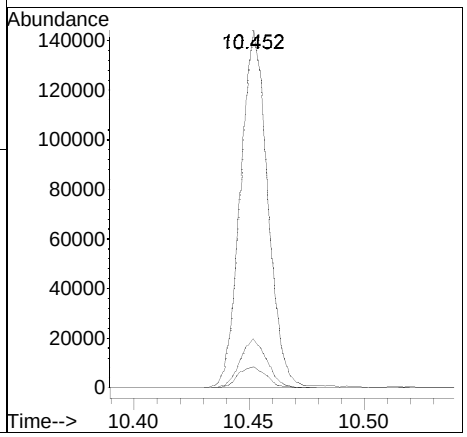


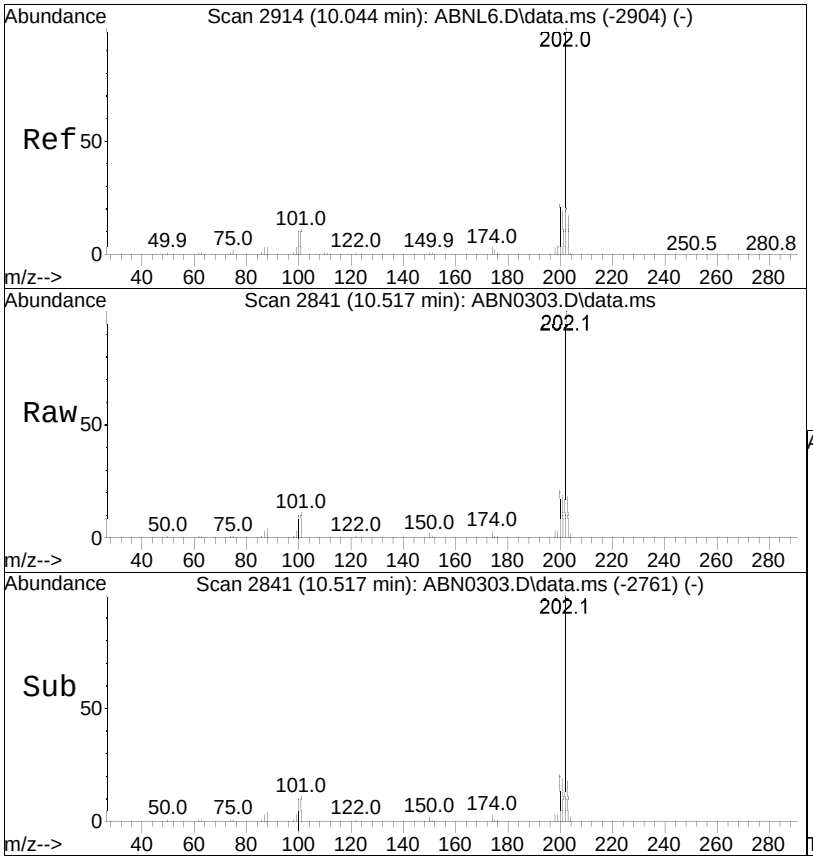


#91
Benzidine
Concen: 4.59 ug/ml
RT: 10.452 min Scan# 2820
Delta R.T. 0.000 min
Lab File: ABN0303.D
Acq: 3 Mar 2024 12:02 pm

Tgt Ion:184 Resp: 118064

Ion	Ratio	Lower	Upper
184	100		
92	6.2	9.1	13.7#
185	13.6	11.1	16.7

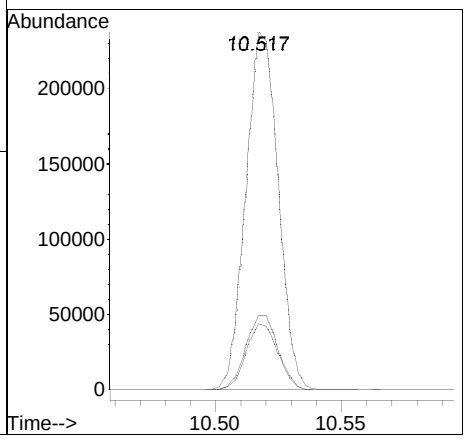


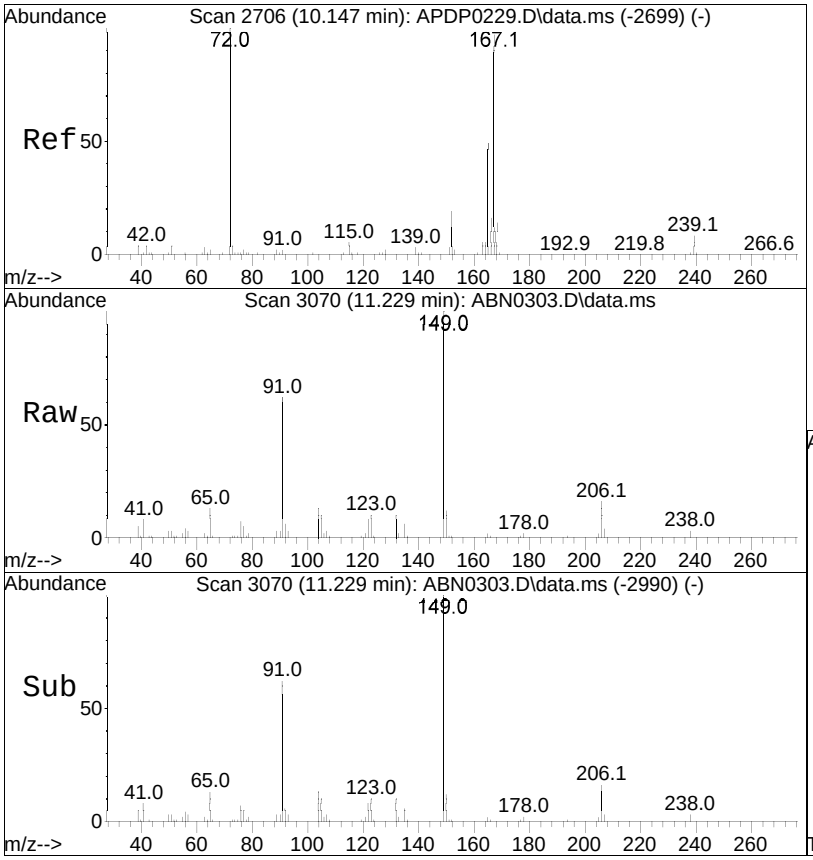


#92
Pyrene
Concen: 4.58 ug/ml
RT: 10.517 min Scan# 2841
Delta R.T. 0.000 min
Lab File: ABN0303.D
Acq: 3 Mar 2024 12:02 pm

Tgt Ion:202 Resp: 210590

Ion	Ratio	Lower	Upper
202	100		
200	20.9	16.7	25.1
203	18.3	14.2	21.4

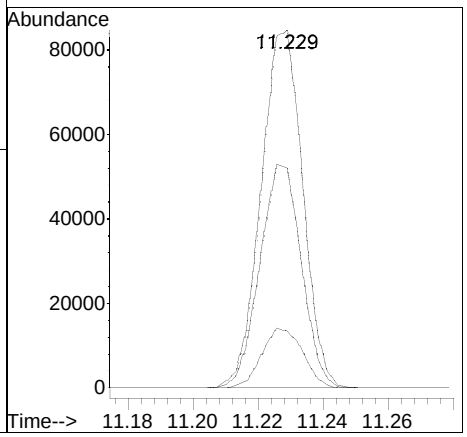


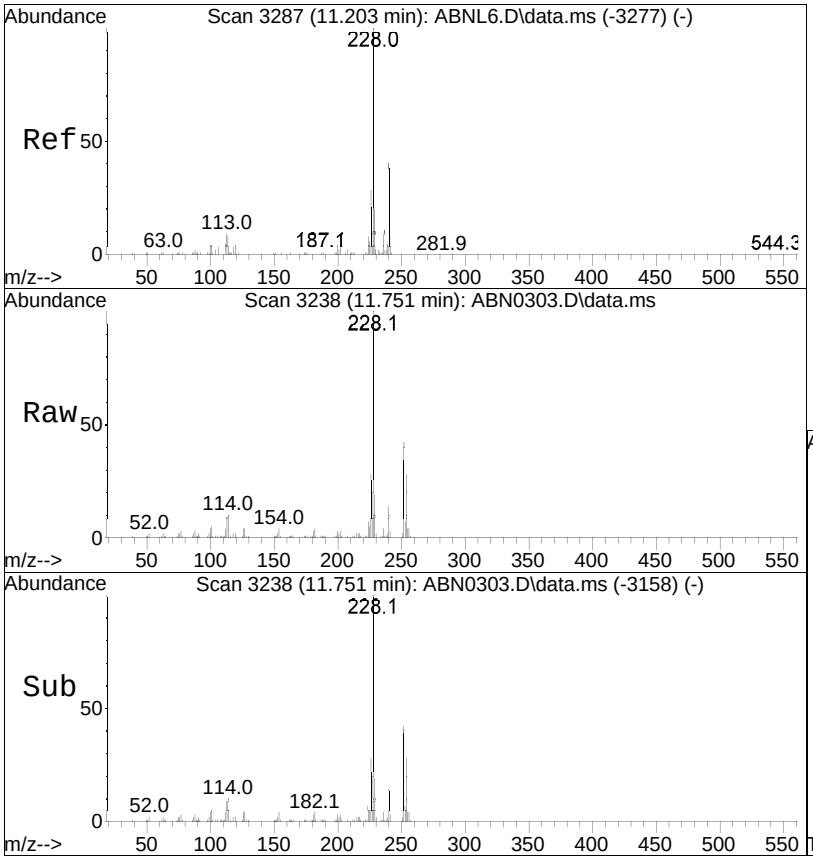


#94
Butyl benzyl phthalate
Concen: 4.37 ug/ml
RT: 11.229 min Scan# 3070
Delta R.T. 0.000 min
Lab File: ABN0303.D
Acq: 3 Mar 2024 12:02 pm

Tgt Ion:149 Resp: 74496

Ion	Ratio	Lower	Upper
149	100		
91	62.5	63.3	94.9#
206	16.5	13.9	20.9

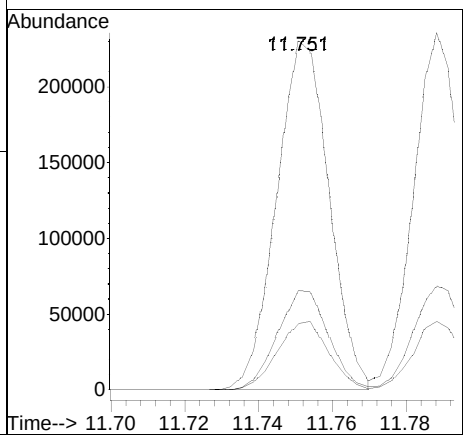


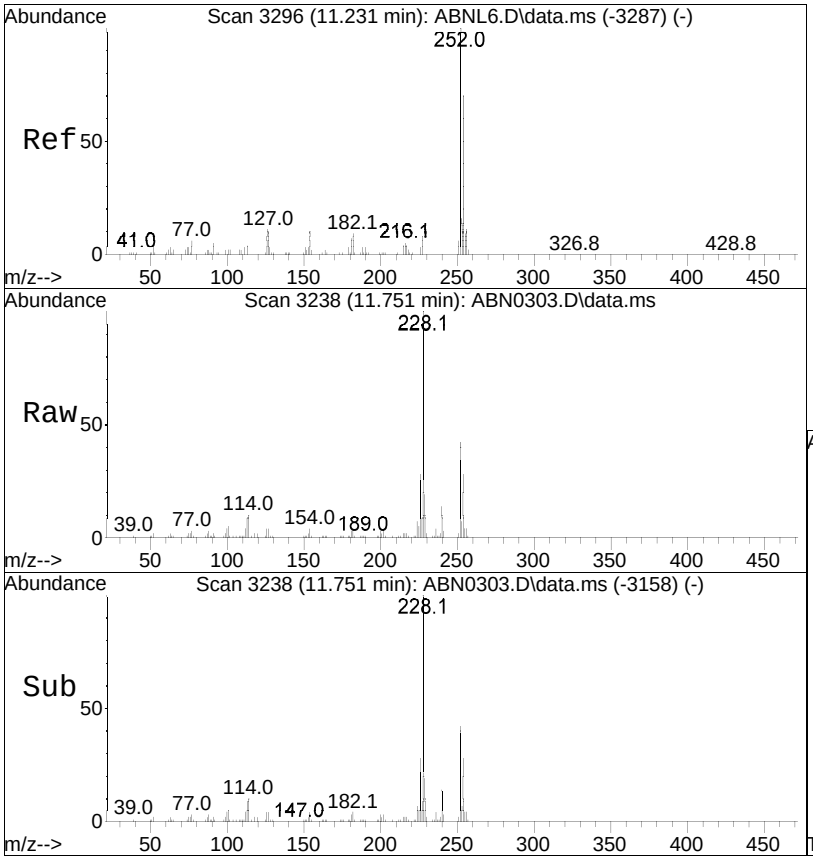


#101
Benzo(a)anthracene
Concen: 4.51 ug/ml
RT: 11.751 min Scan# 3238
Delta R.T. 0.000 min
Lab File: ABN0303.D
Acq: 3 Mar 2024 12:02 pm

Tgt Ion:228 Resp: 227498

Ion	Ratio	Lower	Upper
228	100		
226	27.8	22.2	33.4
229	19.3	15.6	23.4

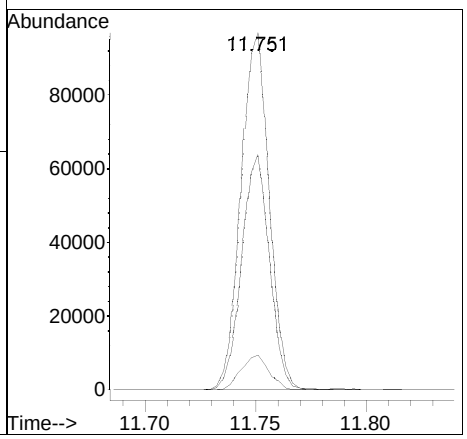


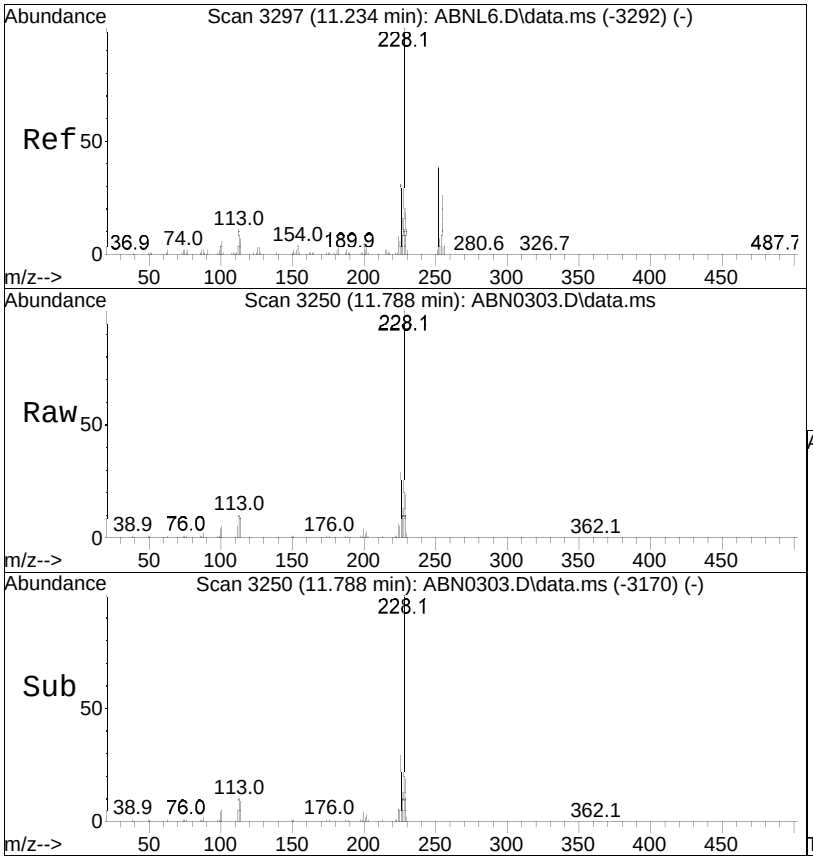


#102
3,3'-Dichlorobenzidine
Concen: 4.51 ug/ml
RT: 11.751 min Scan# 3238
Delta R.T. 0.000 min
Lab File: ABN0303.D
Acq: 3 Mar 2024 12:02 pm

Tgt Ion:252 Resp: 85611

Ion	Ratio	Lower	Upper
252	100		
126	9.8	14.5	21.7#
254	64.8	51.2	76.8

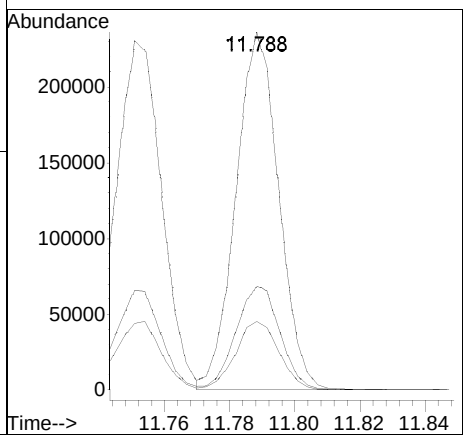


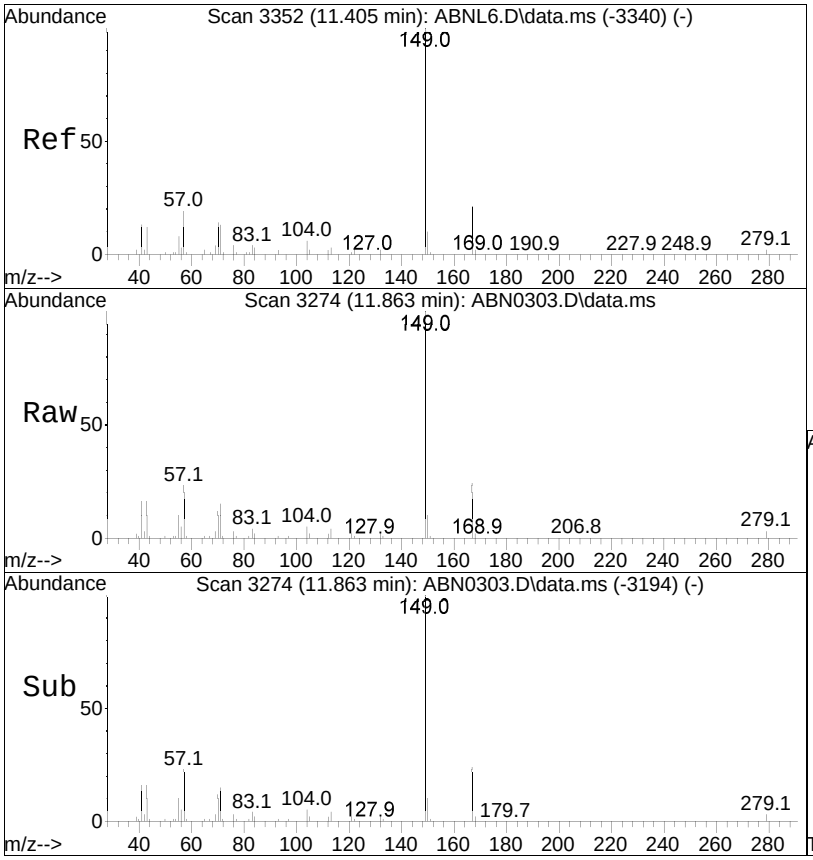


#103
Chrysene
Concen: 4.37 ug/ml
RT: 11.788 min Scan# 3250
Delta R.T. 0.000 min
Lab File: ABN0303.D
Acq: 3 Mar 2024 12:02 pm

Tgt Ion:228 Resp: 215178

Ion	Ratio	Lower	Upper
228	100		
226	29.9	24.0	36.0
229	19.5	15.8	23.8

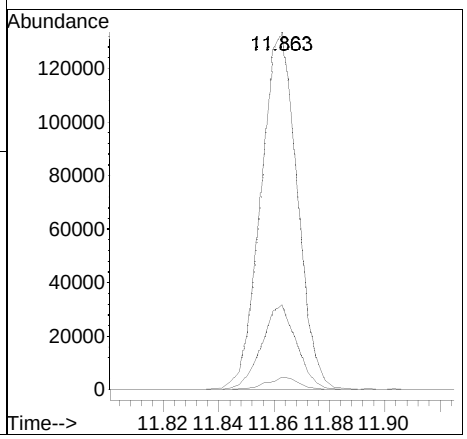


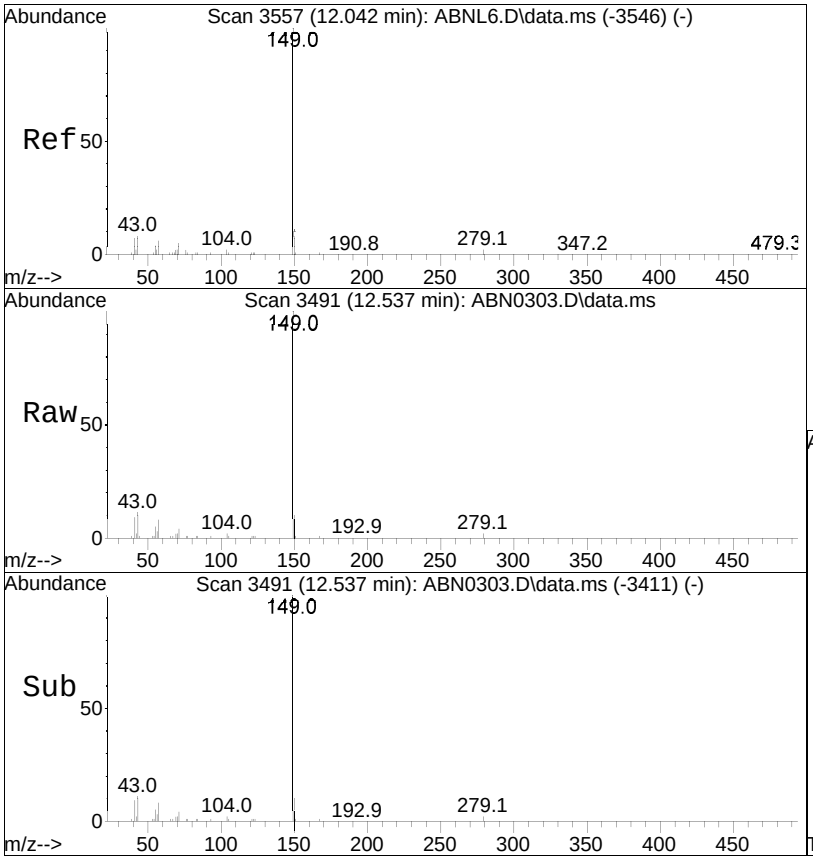


#104
Bis(2-ethylhexyl)phthalate
Concen: 4.35 ug/ml
RT: 11.863 min Scan# 3274
Delta R.T. 0.000 min
Lab File: ABN0303.D
Acq: 3 Mar 2024 12:02 pm

Tgt Ion:149 Resp: 120492

Ion	Ratio	Lower	Upper
149	100		
167	22.9	22.1	33.1
279	2.8	3.0	4.4#

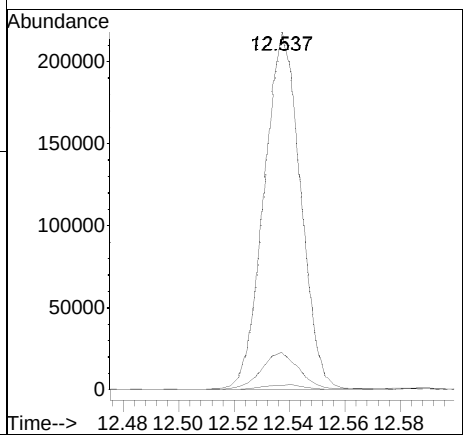


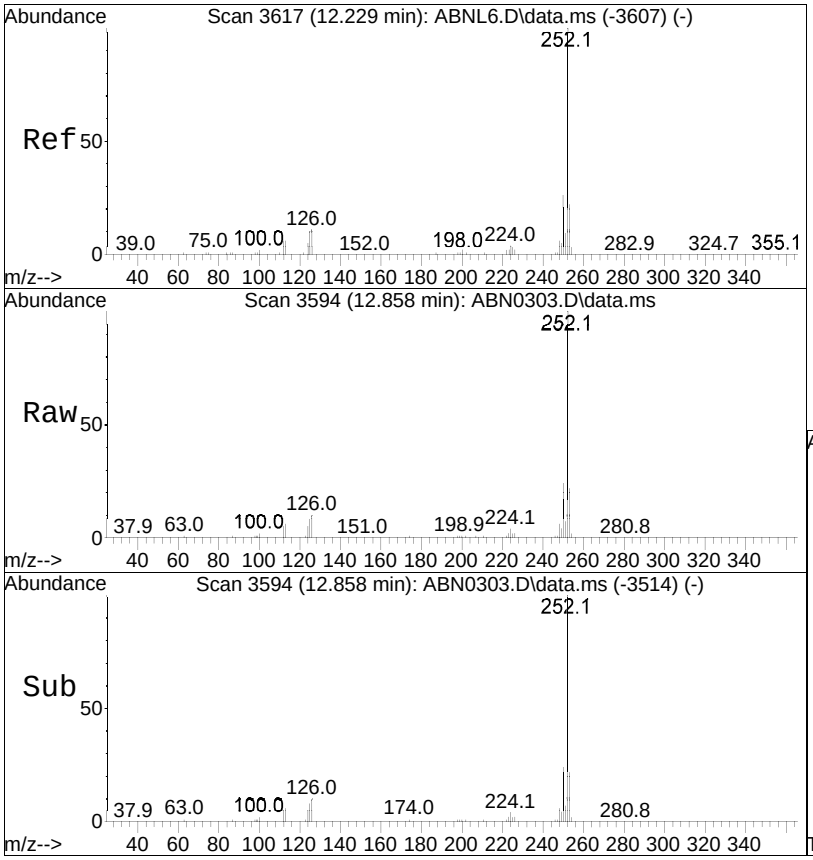


#105
Di-n-octylphthalate
Concen: 4.25 ug/ml
RT: 12.537 min Scan# 3491
Delta R.T. 0.000 min
Lab File: ABN0303.D
Acq: 3 Mar 2024 12:02 pm

Tgt Ion:149 Resp: 197397

Ion	Ratio	Lower	Upper
149	100		
43	10.9	18.8	28.2#
167	1.3	1.3	1.9#

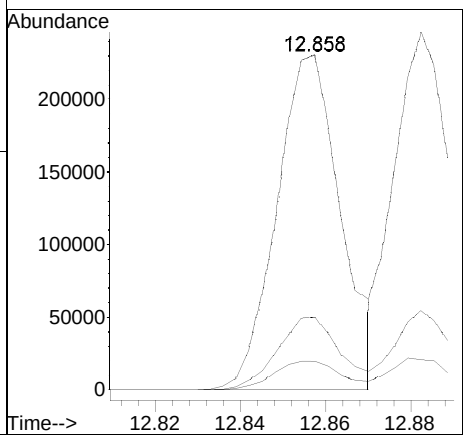


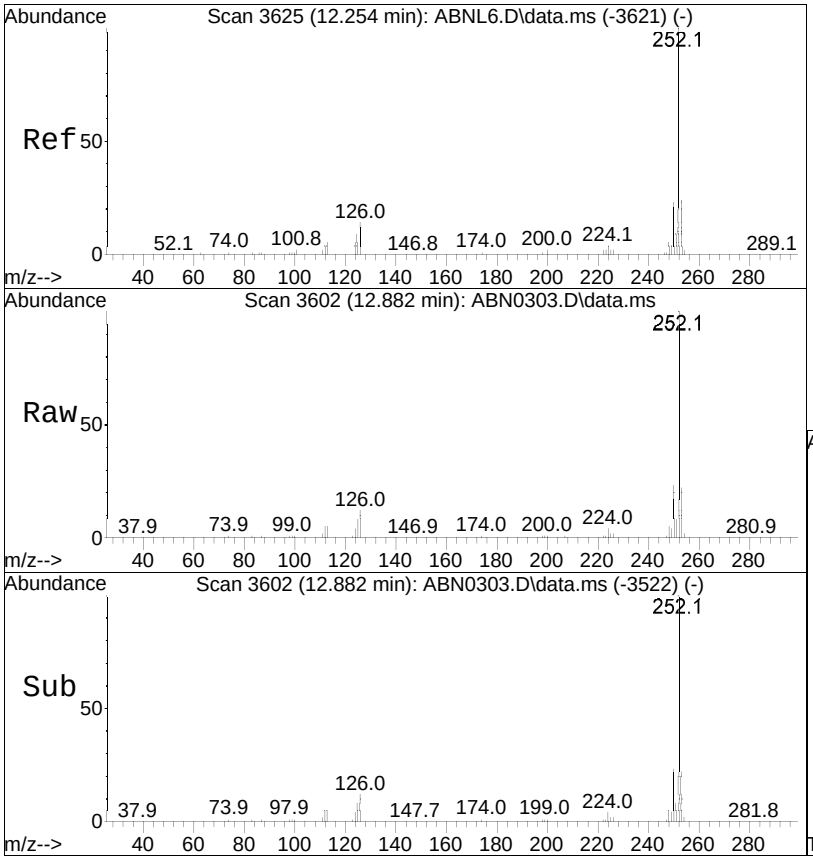


#106
Benzo(b)fluoranthene
Concen: 4.62 ug/ml M3
RT: 12.858 min Scan# 3594
Delta R.T. 0.000 min
Lab File: ABN0303.D
Acq: 3 Mar 2024 12:02 pm

Tgt Ion:252 Resp: 240603

Ion	Ratio	Lower	Upper
252	100		
125	9.1	13.3	19.9#
253	21.5	17.1	25.7

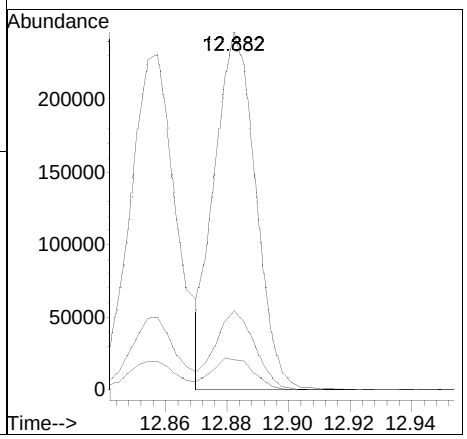


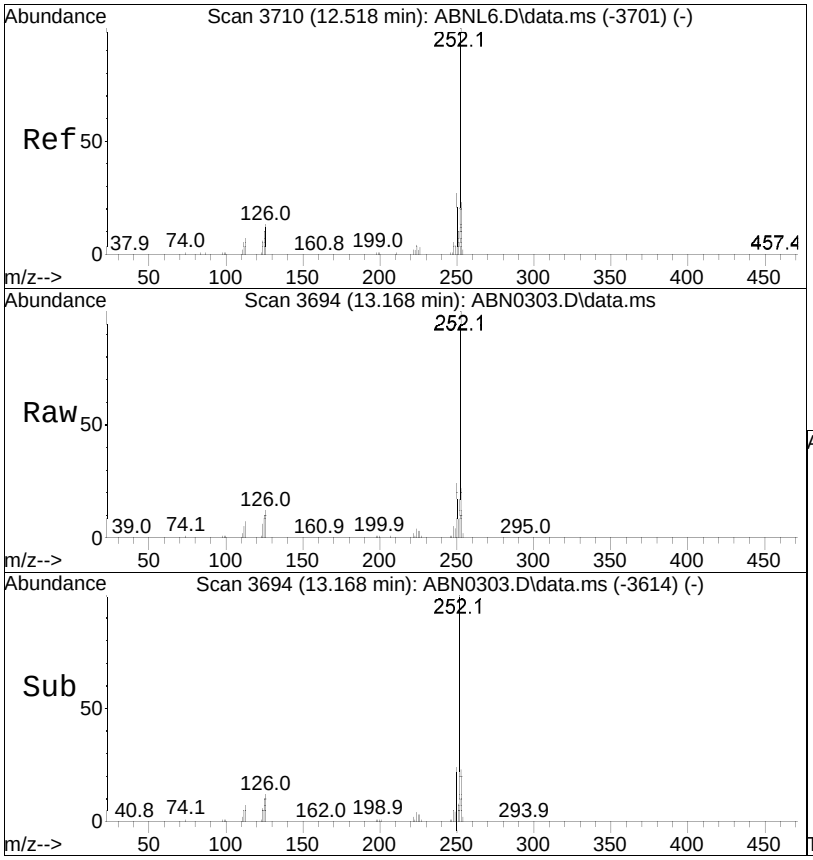


#107
Benzo(k)fluoranthene
Concen: 4.44 ug/ml
RT: 12.882 min Scan# 3602
Delta R.T. 0.000 min
Lab File: ABN0303.D
Acq: 3 Mar 2024 12:02 pm

Tgt Ion:252 Resp: 228217

Ion	Ratio	Lower	Upper
252	100		
125	9.0	13.0	19.6#
253	21.5	16.8	25.2

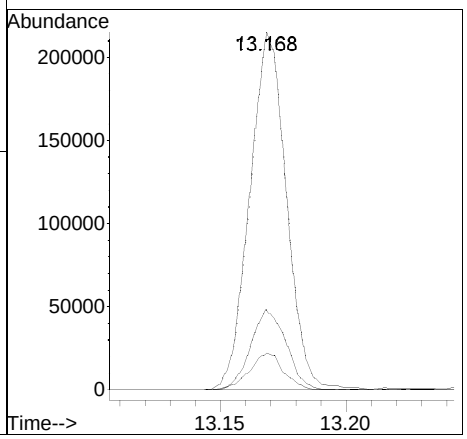


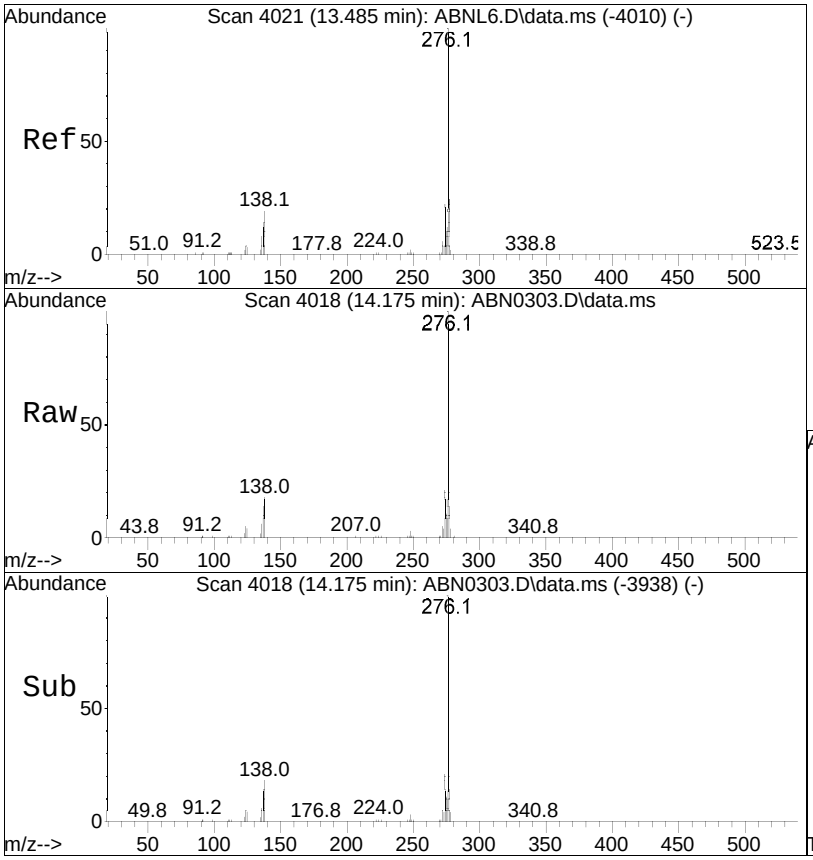


#108
Benzo(a)pyrene
Concen: 4.49 ug/ml
RT: 13.168 min Scan# 3694
Delta R.T. 0.000 min
Lab File: ABN0303.D
Acq: 3 Mar 2024 12:02 pm

Tgt Ion:252 Resp: 215894

Ion	Ratio	Lower	Upper
252	100		
125	9.8	14.2	21.2#
253	22.2	16.9	25.3

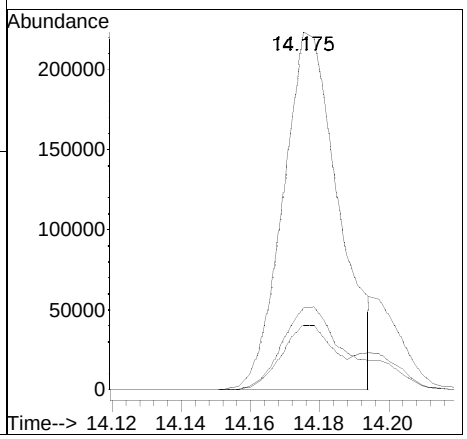


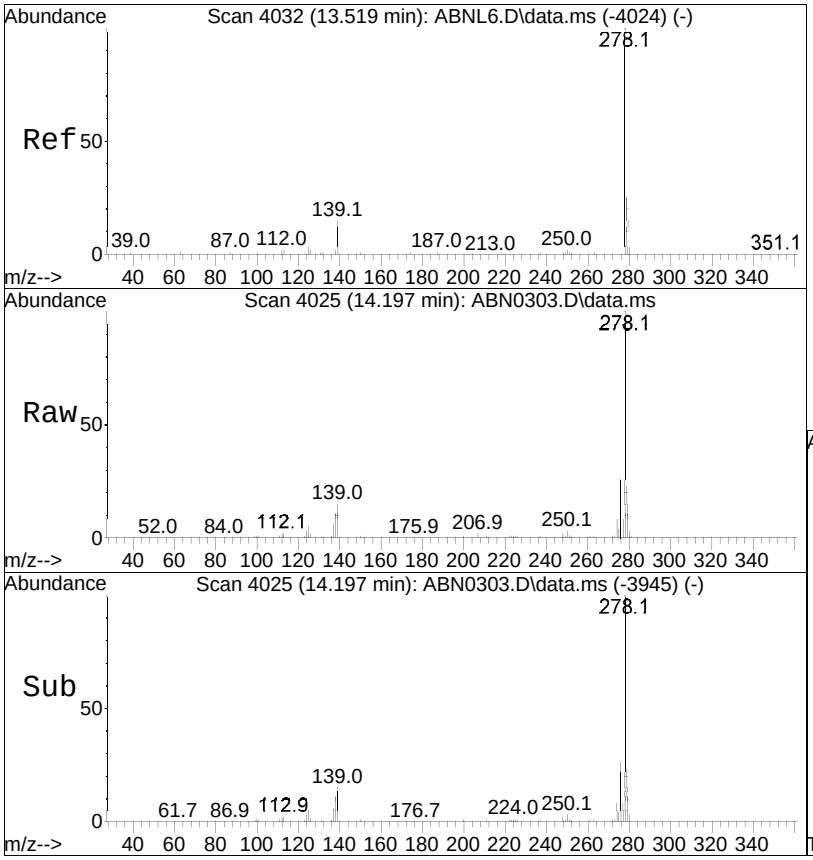


#110
Indeno(1,2,3-cd)pyrene
Concen: 4.58 ug/mL M6
RT: 14.175 min Scan# 4018
Delta R.T. 0.000 min
Lab File: ABN0303.D
Acq: 3 Mar 2024 12:02 pm

Tgt Ion:276 Resp: 249715

Ion	Ratio	Lower	Upper
276	100		
138	17.3	25.1	37.7#
277	28.9	18.6	28.0#

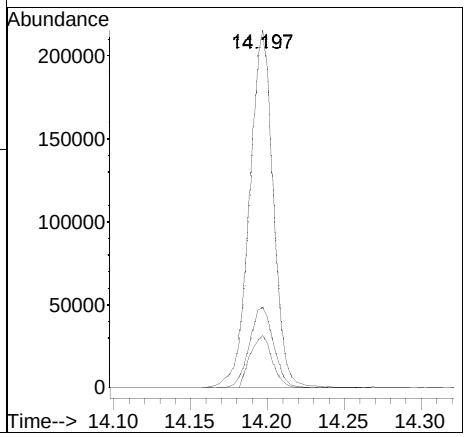


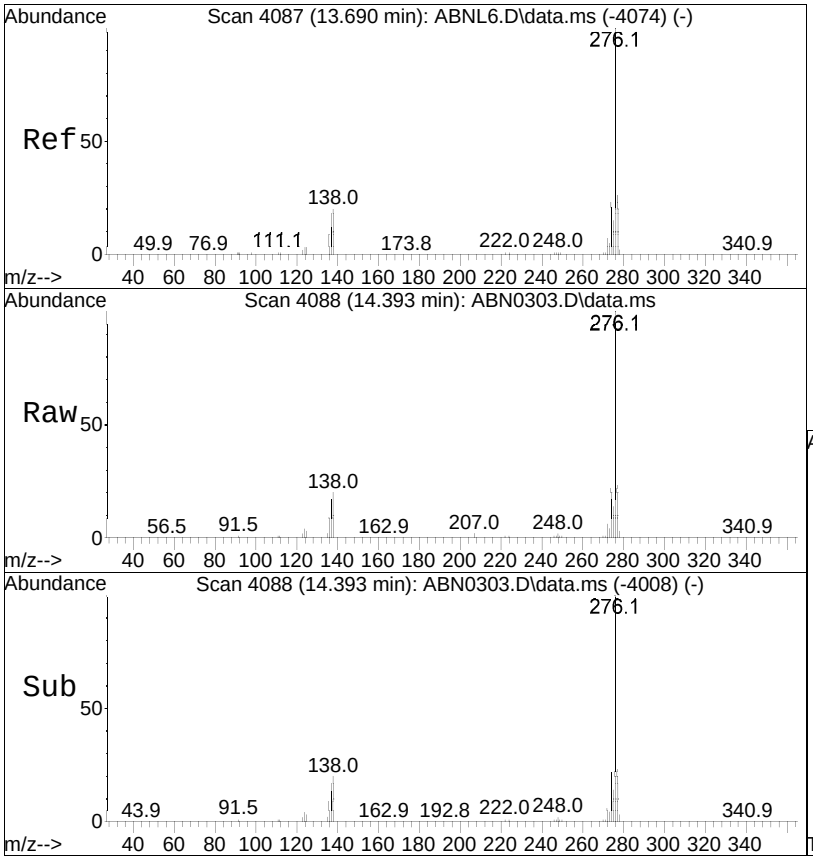


#111
Dibenzo(a,h)anthracene
Concen: 4.51 ug/ml
RT: 14.197 min Scan# 4025
Delta R.T. 0.000 min
Lab File: ABN0303.D
Acq: 3 Mar 2024 12:02 pm

Tgt Ion:278 Resp: 229865

Ion	Ratio	Lower	Upper
278	100		
139	13.7	20.8	31.2#
279	23.1	18.3	27.5

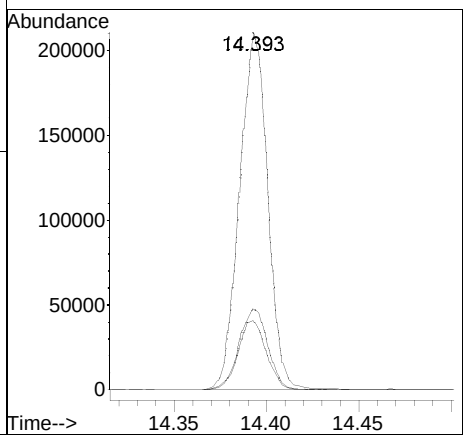




#112
Benzo(ghi)perylene
Concen: 4.33 ug/ml
RT: 14.393 min Scan# 4088
Delta R.T. 0.000 min
Lab File: ABN0303.D
Acq: 3 Mar 2024 12:02 pm

Tgt Ion:276 Resp: 222070

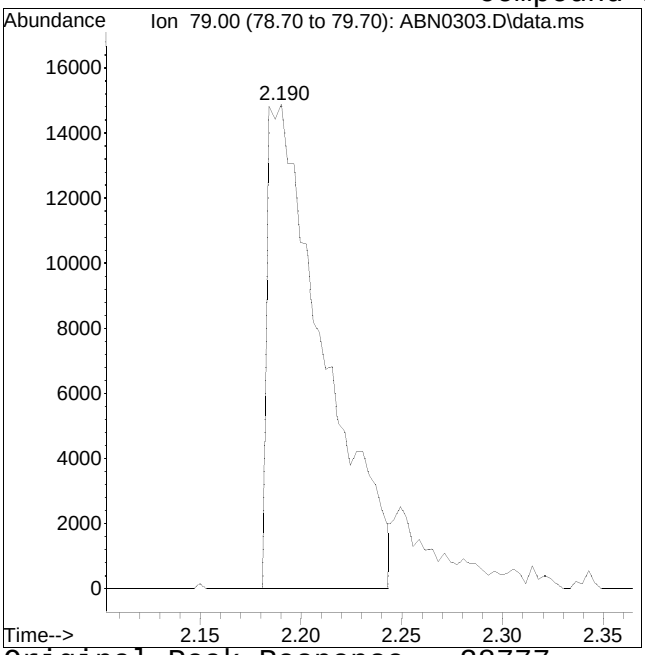
Ion	Ratio	Lower	Upper
276	100		
138	19.8	29.2	43.8#
277	23.3	18.8	28.2



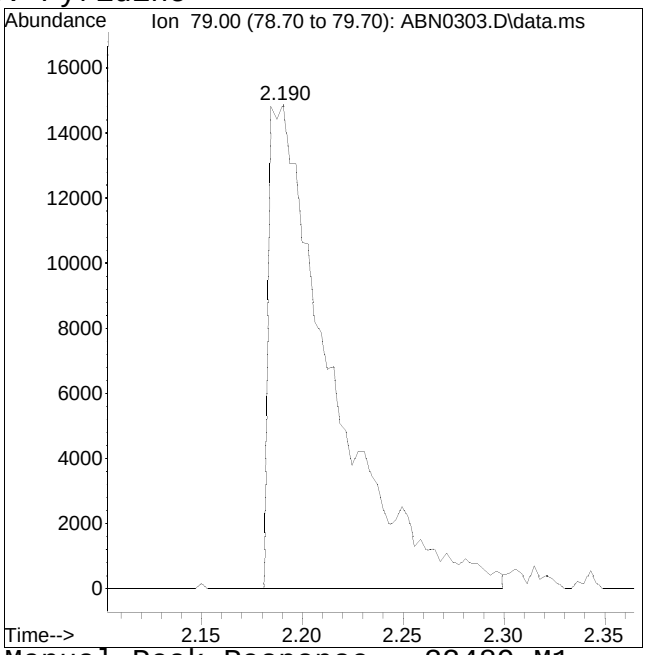
Manual Integration Report

Data Path : I:\8270\Dakota\240303alvi\QMethod : FS240228LVIDakota.m
Data File : ABN0303.D Operator : Dakota:sz
Date Inj'd : 3/3/2024 12:02 pm Instrument : Dakota
Sample : wg1891643-3,32,,ABN 10360 Quant Date : 3/3/2024 1:21 pm

Compound #3: Pyridine



Original Peak Response = 28777



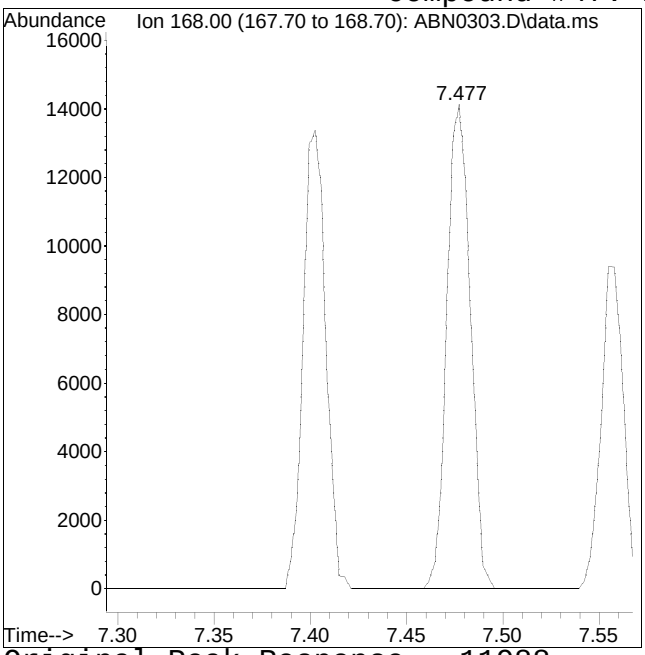
Manual Peak Response = 32489 M1

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

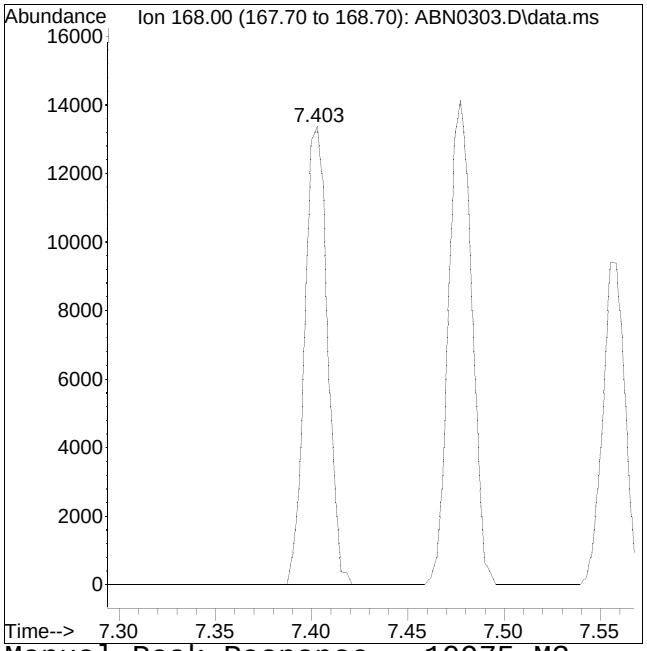
Manual Integration Report

Data Path : I:\8270\Dakota\240303alvi\QMethod : FS240228LVIDakota.m
Data File : ABN0303.D Operator : Dakota:sz
Date Inj'd : 3/3/2024 12:02 pm Instrument : Dakota
Sample : wg1891643-3,32,,ABN 10360 Quant Date : 3/3/2024 1:21 pm

Compound #47: 1,4-Dinitrobenzene



Original Peak Response = 11988



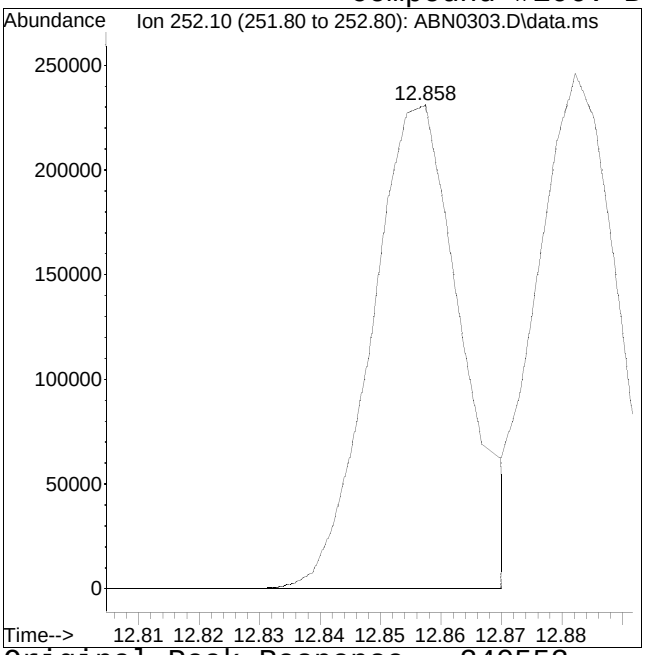
Manual Peak Response = 10975 M3

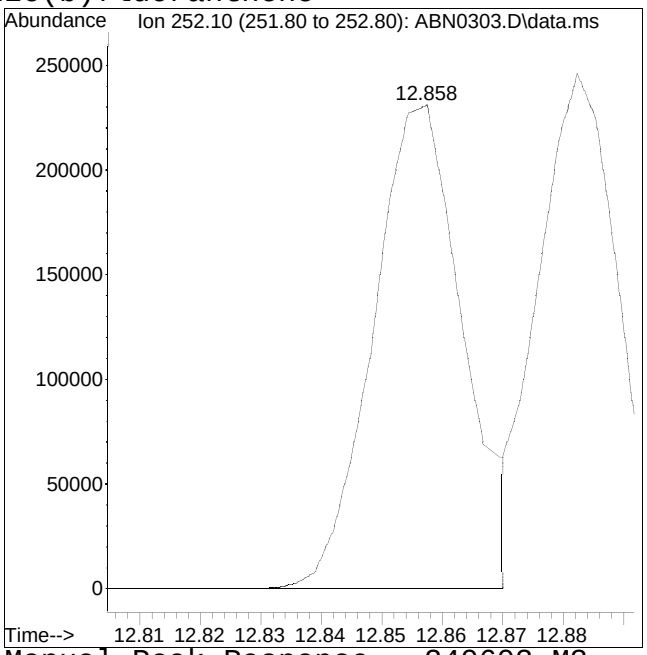
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\8270\Dakota\240303alvi\QMethod : FS240228LVIDakota.m
Data File : ABN0303.D Operator : Dakota:sz
Date Inj'd : 3/3/2024 12:02 pm Instrument : Dakota
Sample : wg1891643-3,32,,ABN 10360 Quant Date : 3/3/2024 1:21 pm

Compound #106: Benzo(b)fluoranthene





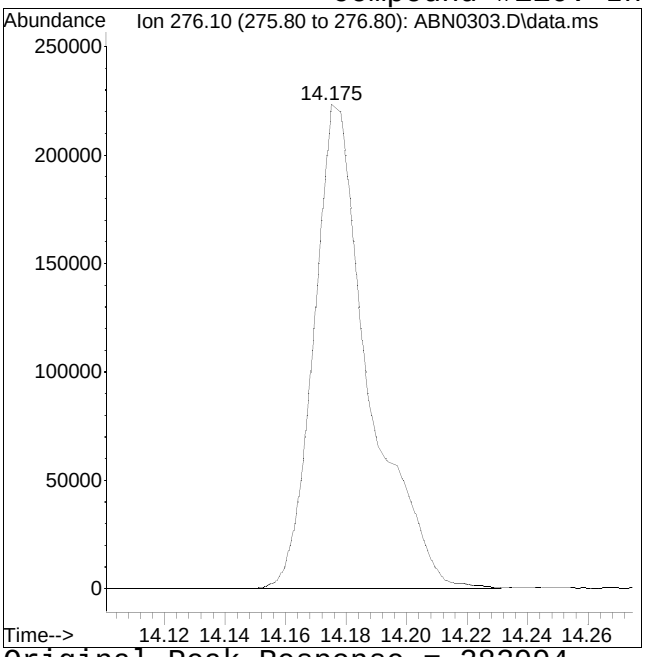
Original Peak Response = 240553 Manual Peak Response = 240603 M3

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

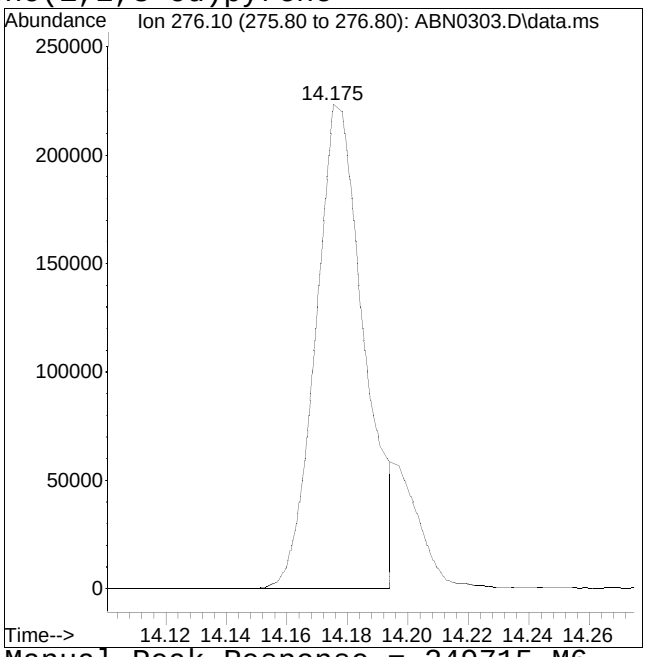
Manual Integration Report

Data Path : I:\8270\Dakota\240303alvi\QMethod : FS240228LVIDakota.m
Data File : ABN0303.D Operator : Dakota:sz
Date Inj'd : 3/3/2024 12:02 pm Instrument : Dakota
Sample : wg1891643-3,32,,ABN 10360 Quant Date : 3/3/2024 1:21 pm

Compound #110: Indeno(1,2,3-cd)pyrene



Original Peak Response = 282994



Manual Peak Response = 249715 M6

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

Evaluate Continuing Calibration Report

Data Path : I:\8270\Dakota\240303alvi\
Data File : APDP0303.D
Acq On : 3 Mar 2024 12:24 pm
Operator : Dakota:sz
Sample : wg1891643-4,32,,APDP 10537 mrg0229A
Misc : wg1891643,,ical20900
ALS Vial : 97 Sample Multiplier: 1

Quant Time: Mar 03 13:21:15 2024
Quant Method : I:\8270\dakota\240303alvi\FS240228LVIDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sun Mar 03 13:21:16 2024
Response via : Initial Calibration

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

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(min)
27	I	IS2_1,4-Dichlorobenzene-d4		1.000	1.000	0.0	108	0.00
28	T	Benzaldehyde		0.482	0.387	19.7	88	0.00
29	T	Acetophenone		1.694	1.391	17.9	89	0.00
30	T	m-Toluidine		1.213	1.007	17.0	87	0.00
31	T	2-Chloroaniline		1.433	1.222	14.7	91	0.00
32	T	n-Decane		1.418	1.134	20.0	89	0.00
53	I	IS2_Naphthalene-d8		1.000	1.000	0.0	109	0.00
54	T	a-Terpineol		0.299	0.240	19.7	89	0.00
55	T	3-Chloroaniline		0.132	0.104	21.2#	88	0.00
56	T	2,6-Dichlorophenol		0.316	0.265	16.1	91	0.00
57	T	1-chloro-2-nitrobenzene		0.129	0.110	14.7	91	0.00
58	T	Caprolactam		0.165	0.132	20.0	96	0.00
59	T	1,2,4,5-Tetrachlorobenzene		0.447	0.389	13.0	98	0.00
60	T	Biphenyl		0.891	0.759	14.8	92	0.00
81	I	IS2_Acenaphthene-d10		1.000	1.000	0.0	120	0.00
82	T	Dichloran		0.178	0.145	18.5	112	0.00
83	T	Pentachloronitrobenzene		0.190	0.157	17.4	101	0.00
84	T	Atrazine		0.384	0.315	18.0	99	0.00
95	I	IS2_Phenanthrene-d10		1.000	1.000	0.0	128	0.00
96	T	Diphenamid		0.446	0.359	19.5	103	0.00
97	T	n-Octadecane		0.405	0.295	27.2#	92	0.00
98	T	Parathion	*	5.000	4.059	18.8	107	0.00
99	T	3,3'-Dimethylbenzidine	*	5.000	3.483	30.3#	93	0.00

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240303alvi\
Data File : APDP0303.D
Acq On : 3 Mar 2024 12:24 pm
Operator : Dakota:sz
Sample : wg1891643-4,32,,APDP 10537 mrg0229A
Misc : wg1891643,,ical20900
ALS Vial : 97 Sample Multiplier: 1

Quant Time: Mar 03 13:21:15 2024
Quant Method : I:\8270\dakota\240303alvi\FS240228LVIDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sun Mar 03 13:21:16 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\dakota\240303alvi\ABN0303.D
Sub List : AP9ADP_REV1 - Combined adp and ap9 sublist

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
27) IS2_1,4-Dichlorobenzen...	4.764	152	25986	4.000	ug/ml		0.00
53) IS2_Naphthalene-d8	5.998	136	94225	4.000	ug/ml	#	0.00
81) IS2_Acenaphthene-d10	7.701	164	65631	4.000	ug/ml		0.00
95) IS2_Phenanthrene-d10	9.131	188	154043	4.000	ug/ml		0.00
System Monitoring Compounds							
Target Compounds							Qvalue
28) Benzaldehyde	4.338	105	12557	4.007	ug/ml		95
29) Acetophenone	5.165	105	45183	4.106	ug/ml	#	82
30) m-Toluidine	5.246	106	32722	4.152	ug/ml		93
31) 2-Chloroaniline	5.606	127	39703	4.266	ug/ml	#	94
32) n-Decane	4.652	57	36826	3.998	ug/ml	#	32
54) a-Terpineol	6.051	59	28264	4.018	ug/ml		89
55) 3-Chloroaniline	6.069	65	12285	3.937	ug/ml		93
56) 2,6-Dichlorophenol	6.094	162	31223	4.198	ug/ml	#	84
57) 1-chloro-2-nitrobenzene	6.349	111	12993	4.286	ug/ml	#	1
58) Caprolactam	6.386	55	15586	4.021	ug/ml	#	82
59) 1,2,4,5-Tetrachloroben...	6.865	216	45853	4.360	ug/ml	#	94
60) Biphenyl	7.157	154	89420	4.262	ug/ml		99
82) Dichloran	8.829	206	11881	4.078	ug/ml	#	54
83) Pentachloronitrobenzene	8.979	237	12871	4.122	ug/ml	#	71
84) Atrazine	8.898	200	25832	4.104	ug/ml		93
96) Diphenamid	10.029	167	69184	4.032	ug/ml	#	74
97) n-Octadecane	9.100	57	56880	3.648	ug/ml	#	1
98) Parathion	9.911	109	11876	4.059	ug/ml		90
99) 3,3'-Dimethylbenzidine	11.192	212	67485	3.483	ug/ml		99

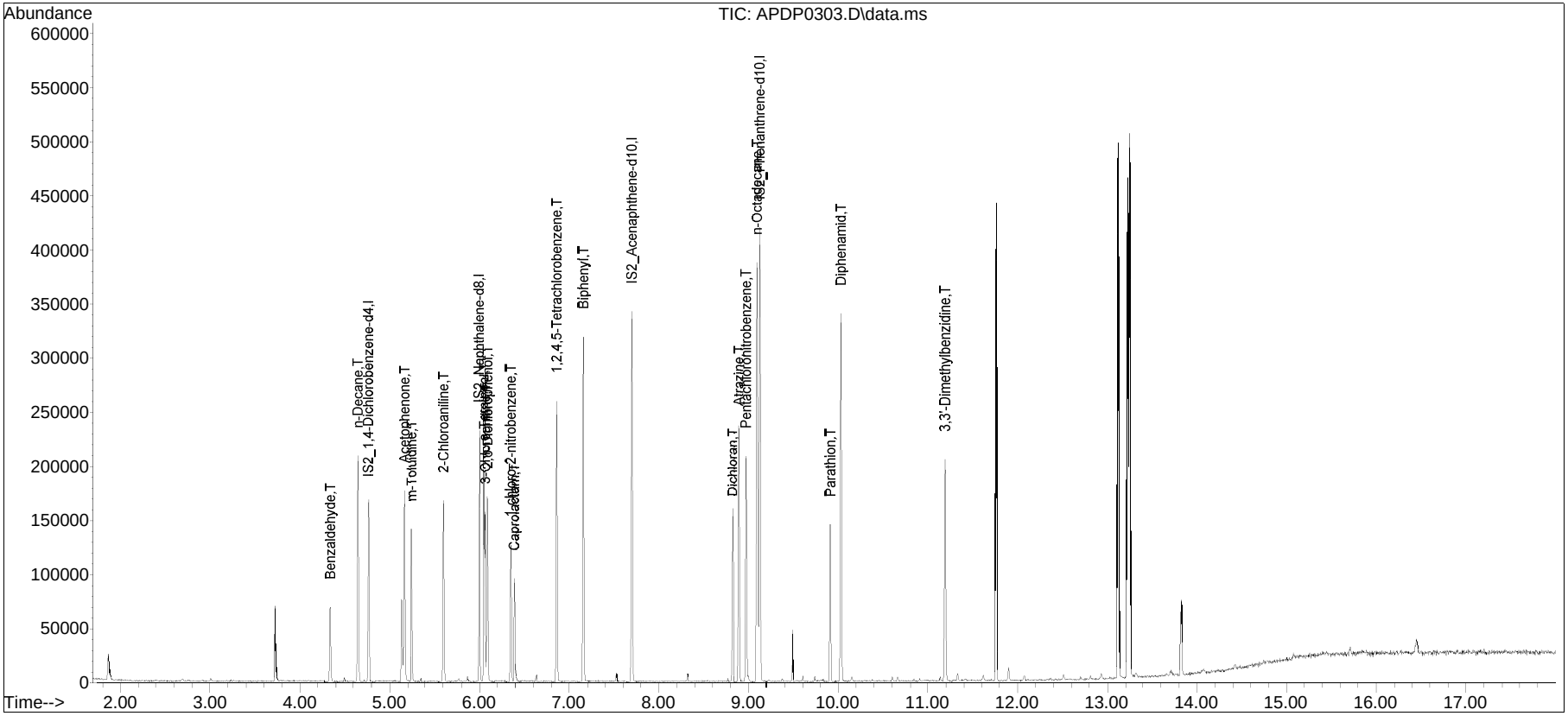
(#) = qualifier out of range (m) = manual integration (+) = signals summed

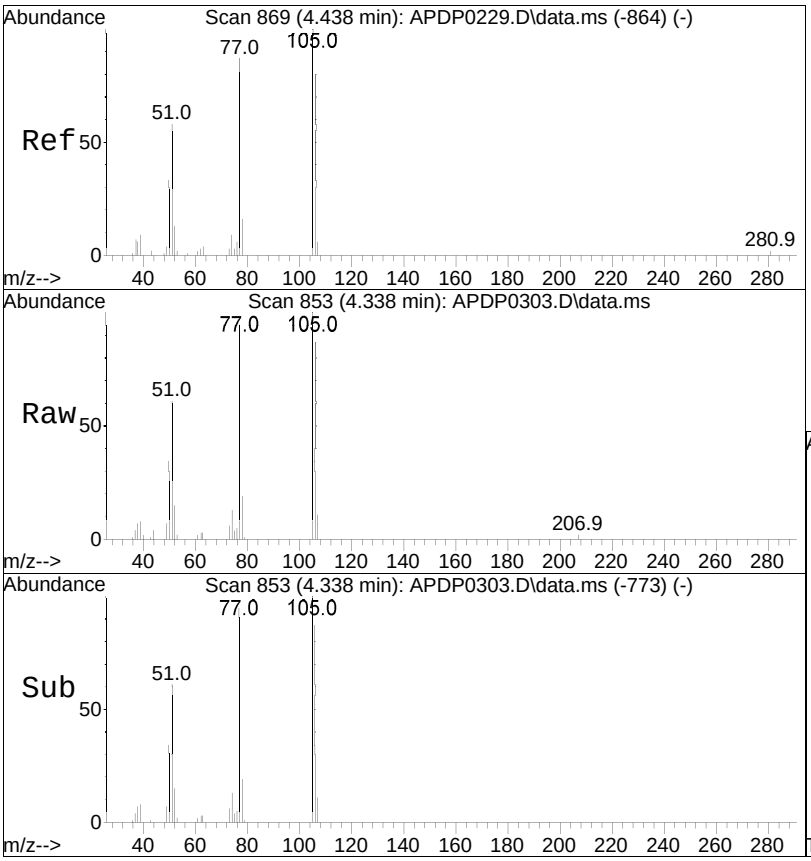
Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240303alvi\
Data File : APDP0303.D
Acq On : 3 Mar 2024 12:24 pm
Operator : Dakota:sz
Sample : wg1891643-4,32,,APDP 10537 mrg0229A
Misc : wg1891643,,ical20900
ALS Vial : 97 Sample Multiplier: 1

Quant Time: Mar 03 13:21:15 2024
Quant Method : I:\8270\dakota\240303alvi\FS240228LVIDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sun Mar 03 13:21:16 2024
Response via : Initial Calibration

Sub List : AP9ADP_REV1 - Combined adp and ap9 sublist

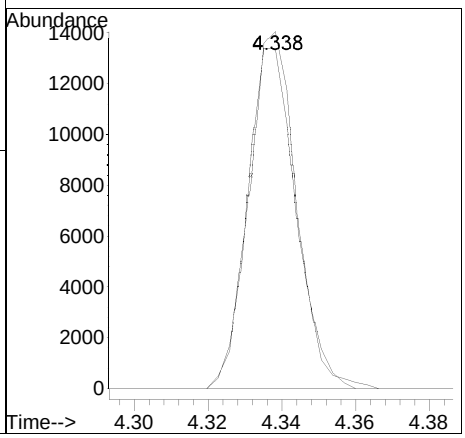


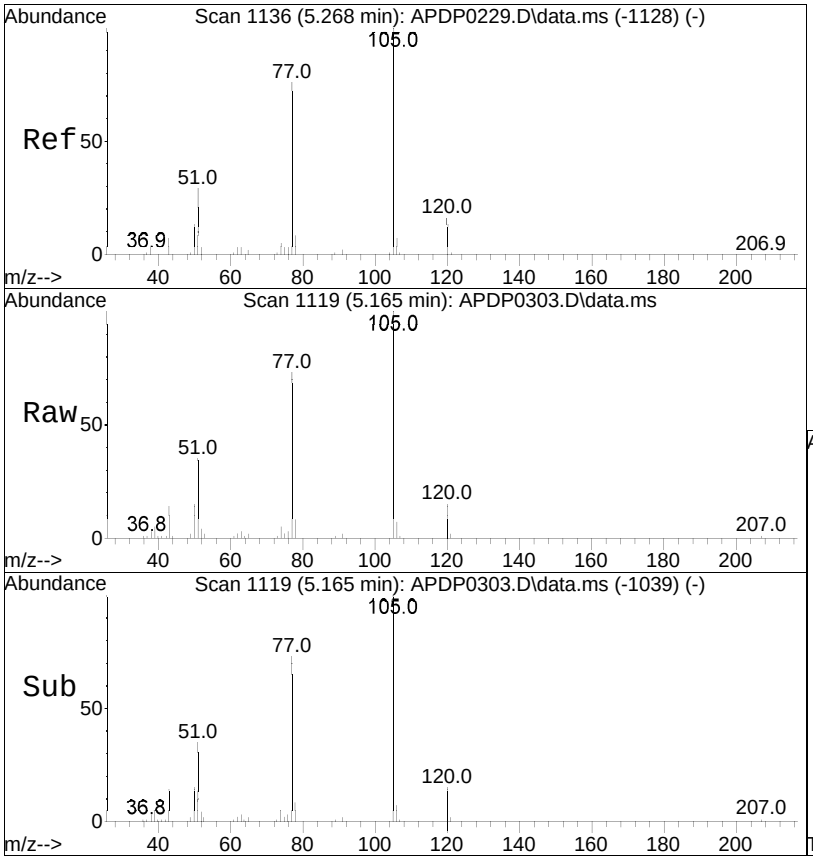


#28
Benzaldehyde
Concen: 4.01 ug/ml
RT: 4.338 min Scan# 853
Delta R.T. 0.000 min
Lab File: APDP0303.D
Acq: 3 Mar 2024 12:24 pm

Tgt Ion:105 Resp: 12557

Ion	Ratio	Lower	Upper
105	100		
77	97.4	82.2	123.4

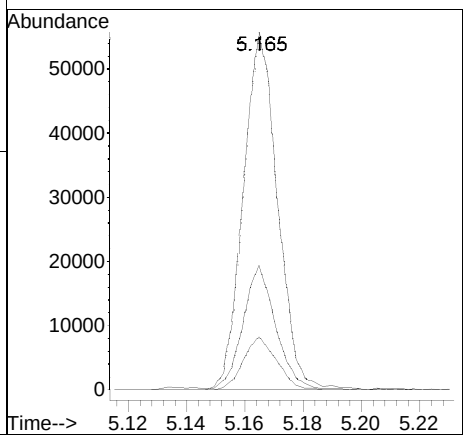


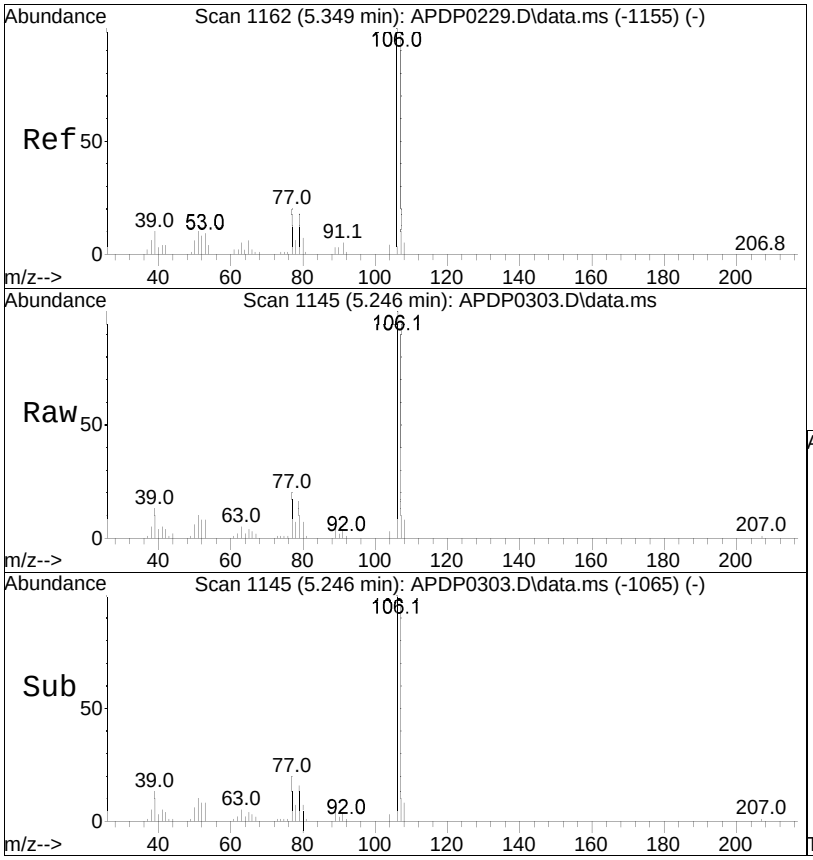


#29
Acetophenone
Concen: 4.11 ug/ml
RT: 5.165 min Scan# 1119
Delta R.T. 0.000 min
Lab File: APDP0303.D
Acq: 3 Mar 2024 12:24 pm

Tgt Ion:105 Resp: 45183

Ion	Ratio	Lower	Upper
105	100		
120	14.3	20.5	30.7#
51	33.4	34.9	52.3#

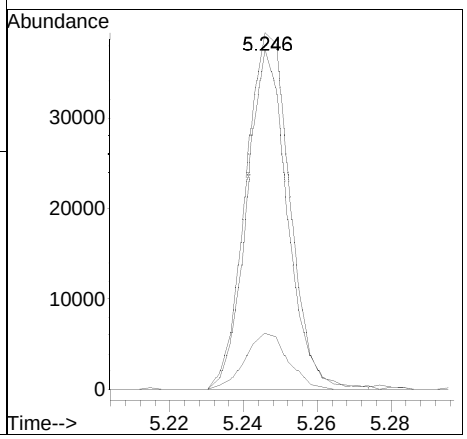


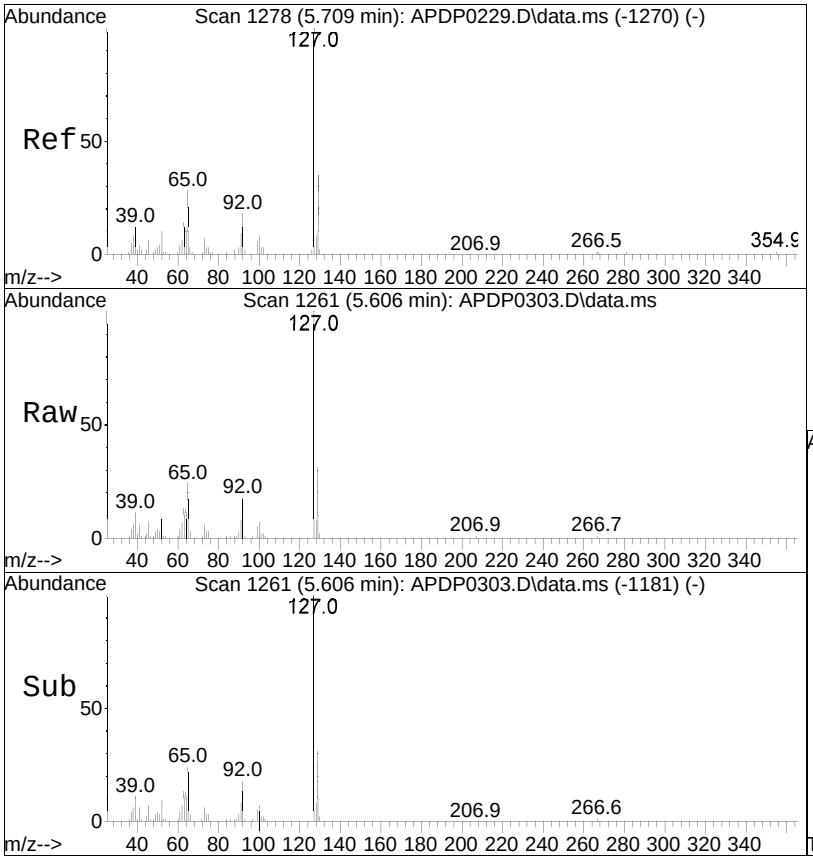


#30
m-Toluidine
Concen: 4.15 ug/ml
RT: 5.246 min Scan# 1145
Delta R.T. 0.000 min
Lab File: APDP0303.D
Acq: 3 Mar 2024 12:24 pm

Tgt Ion:106 Resp: 32722

Ion	Ratio	Lower	Upper
106	100		
107	87.4	75.7	113.5
79	15.4	11.8	17.8

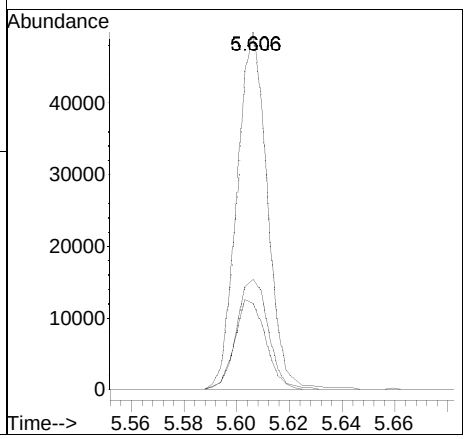


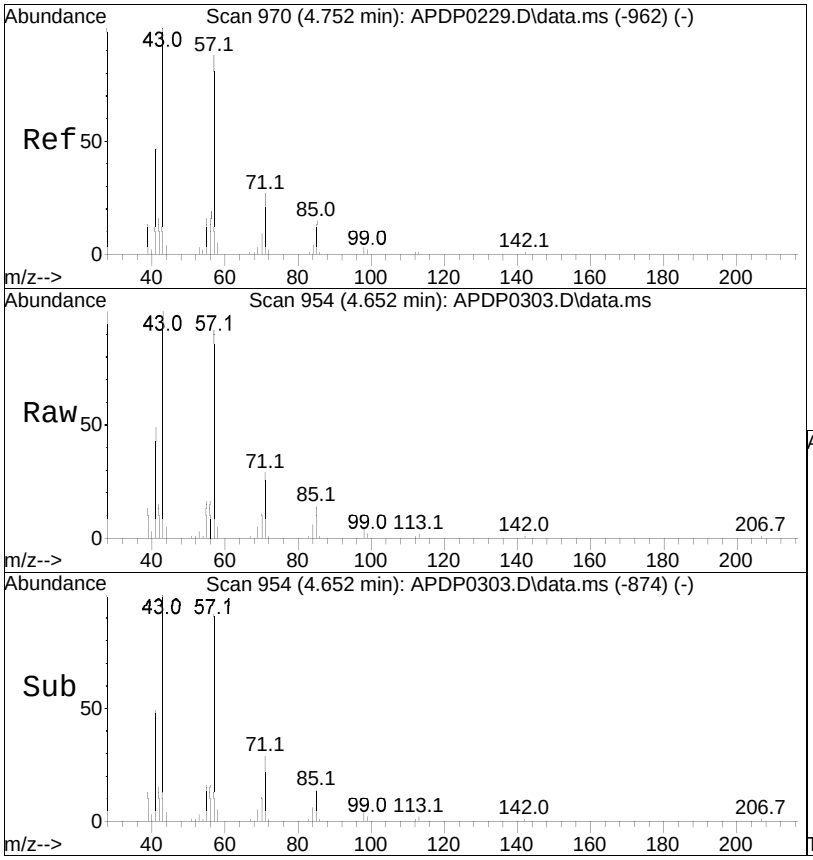


#31
2-Chloroaniline
Concen: 4.27 ug/ml
RT: 5.606 min Scan# 1261
Delta R.T. 0.000 min
Lab File: APDP0303.D
Acq: 3 Mar 2024 12:24 pm

Tgt Ion:127 Resp: 39703

Ion	Ratio	Lower	Upper
127	100		
129	32.3	25.9	38.9
65	25.8	26.3	39.5#

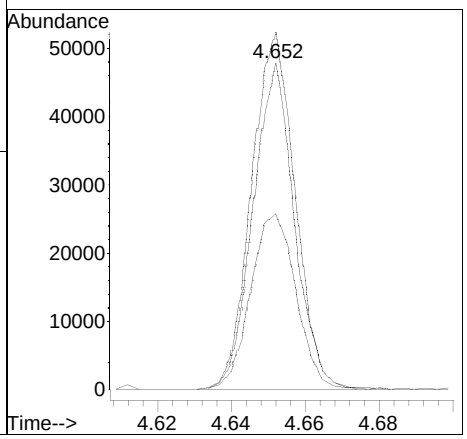


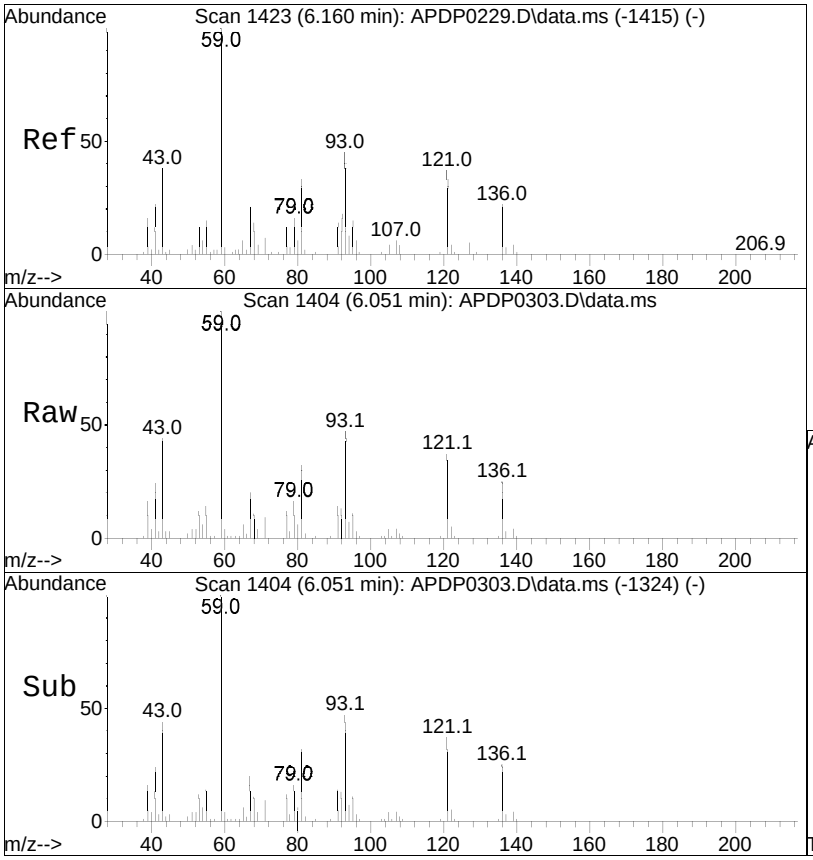


#32
n-Decane
Concen: 4.00 ug/ml
RT: 4.652 min Scan# 954
Delta R.T. 0.000 min
Lab File: APDP0303.D
Acq: 3 Mar 2024 12:24 pm

Tgt Ion: 57 Resp: 36826

Ion	Ratio	Lower	Upper
57	100		
43	115.6	0.2	0.2#
41	59.4	0.2	0.2#

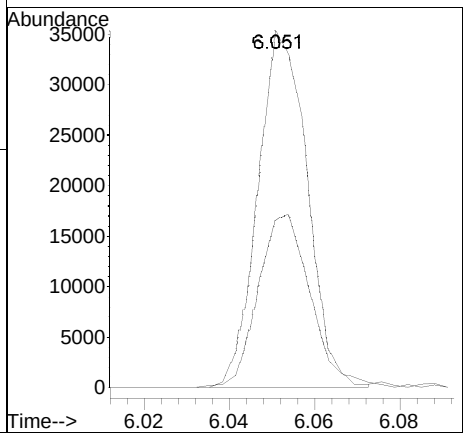


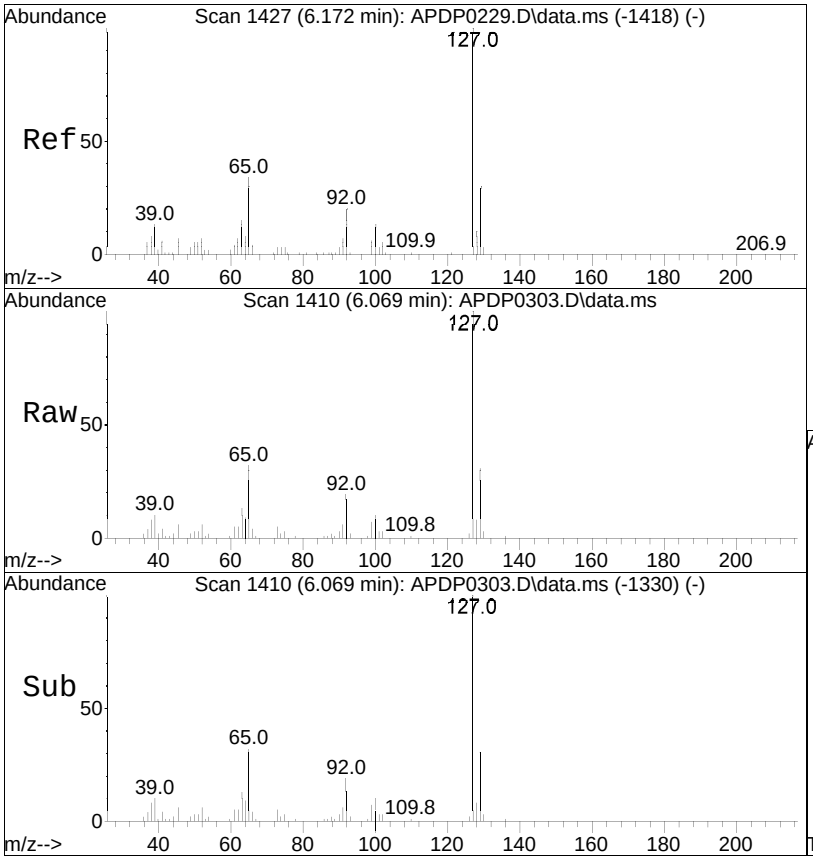


#54
a-Terpineol
Concen: 4.02 ug/ml
RT: 6.051 min Scan# 1404
Delta R.T. 0.000 min
Lab File: APDP0303.D
Acq: 3 Mar 2024 12:24 pm

Tgt Ion: 59 Resp: 28264

Ion	Ratio	Lower	Upper
59	100		
93	51.6	35.6	53.4

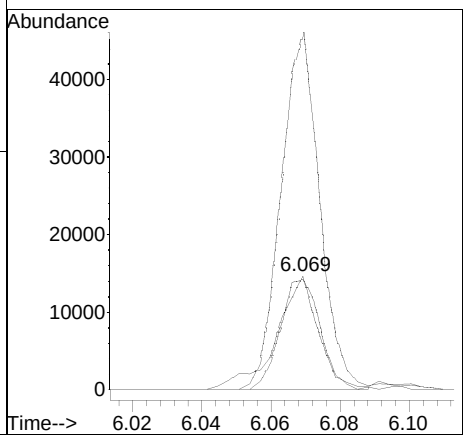


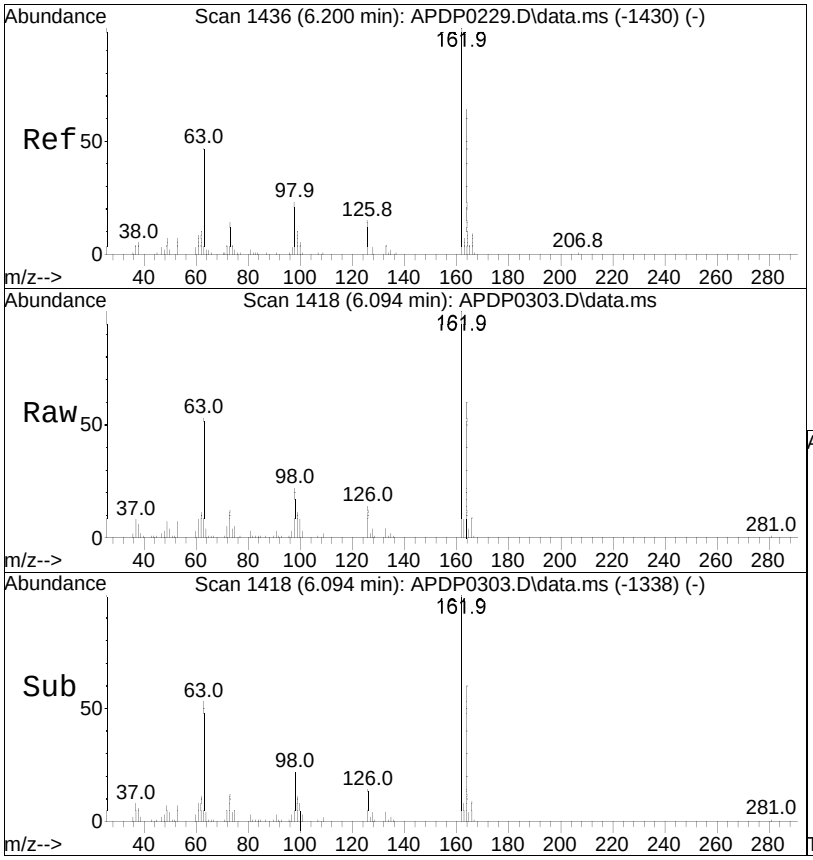


#55
3-Chloroaniline
Concen: 3.94 ug/ml
RT: 6.069 min Scan# 1410
Delta R.T. 0.000 min
Lab File: APDP0303.D
Acq: 3 Mar 2024 12:24 pm

Tgt Ion: 65 Resp: 12285

Ion	Ratio	Lower	Upper
65	100		
127	290.1	243.2	364.8
129	92.6	78.8	118.2

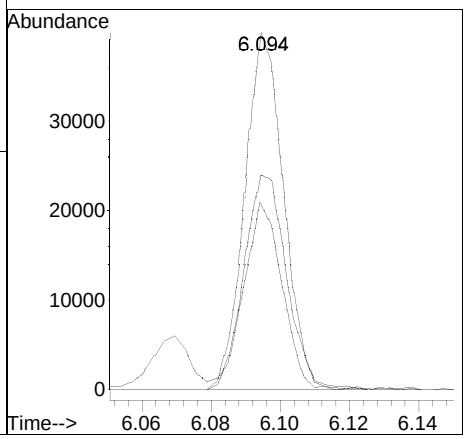


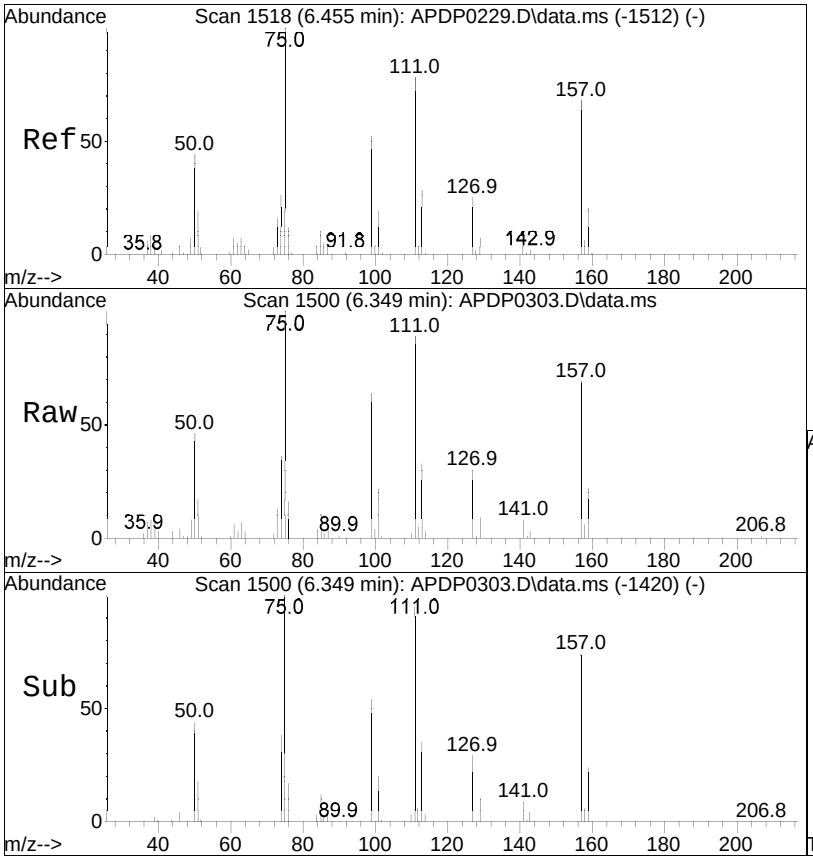


#56
2,6-Dichlorophenol
Concen: 4.20 ug/ml
RT: 6.094 min Scan# 1418
Delta R.T. 0.000 min
Lab File: APDP0303.D
Acq: 3 Mar 2024 12:24 pm

Tgt Ion:162 Resp: 31223

Ion	Ratio	Lower	Upper
162	100		
164	65.3	51.1	76.7
63	51.7	60.8	91.2#

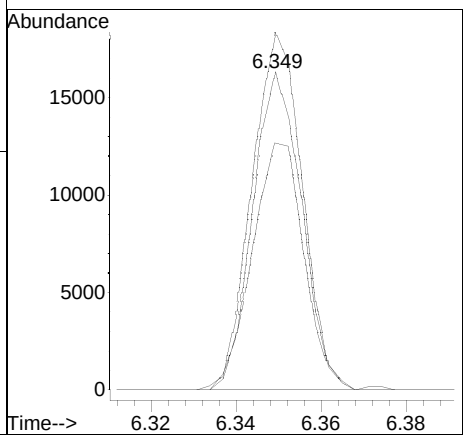


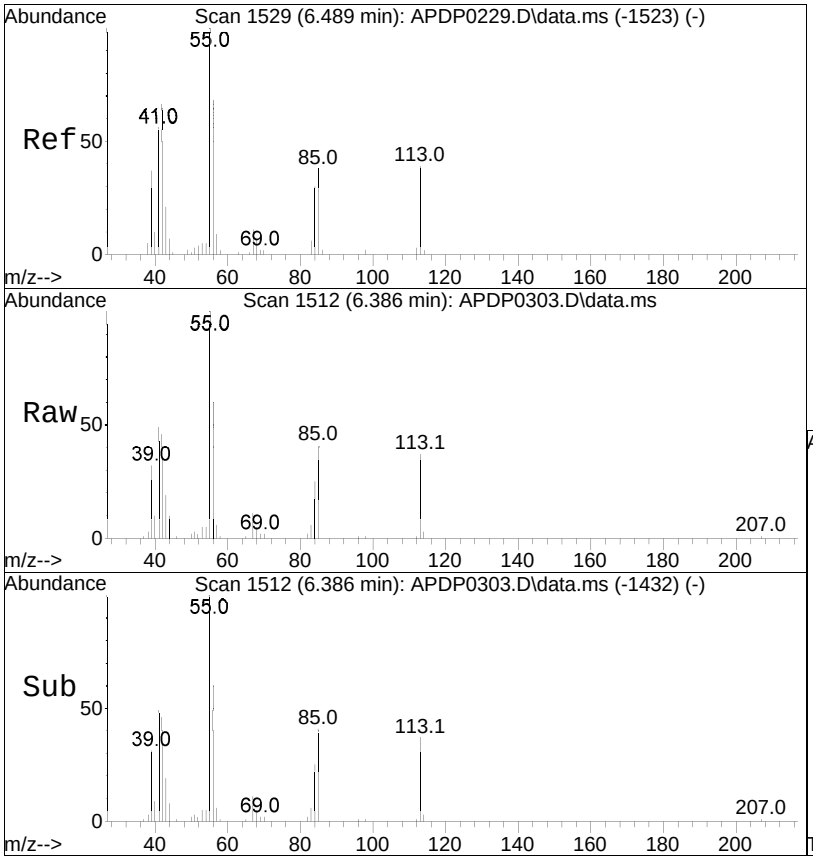


#57
1-chloro-2-nitrobenzene
Concen: 4.29 ug/ml
RT: 6.349 min Scan# 1500
Delta R.T. 0.000 min
Lab File: APDP0303.D
Acq: 3 Mar 2024 12:24 pm

Tgt Ion:111 Resp: 12993

Ion	Ratio	Lower	Upper
111	100		
157	81.5	0.0	0.0#
75	116.3	28.2	42.2#

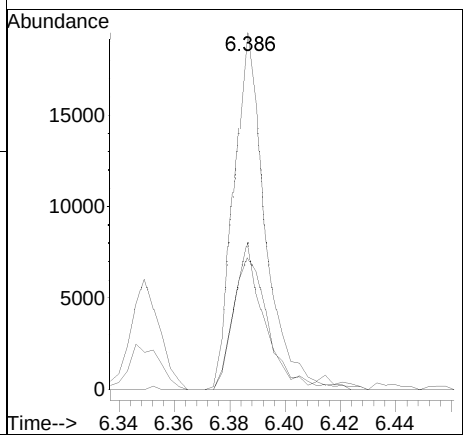


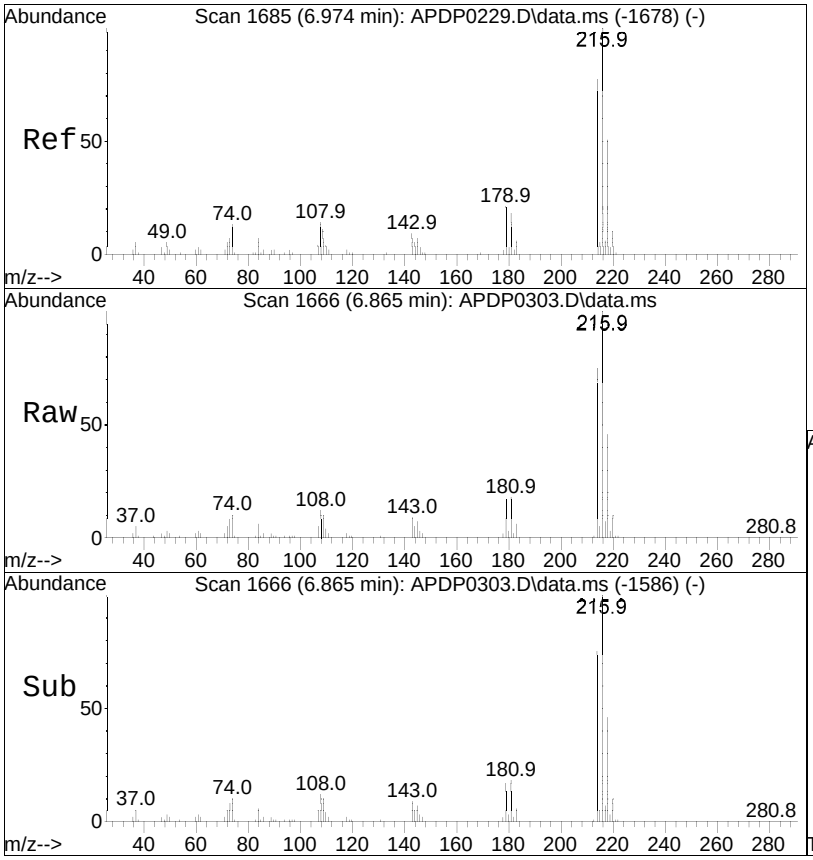


#58
Caprolactam
Concen: 4.02 ug/ml
RT: 6.386 min Scan# 1512
Delta R.T. 0.000 min
Lab File: APDP0303.D
Acq: 3 Mar 2024 12:24 pm

Tgt Ion: 55 Resp: 15586

Ion	Ratio	Lower	Upper
55	100		
85	40.2	19.8	29.6#
113	42.1	29.6	44.4

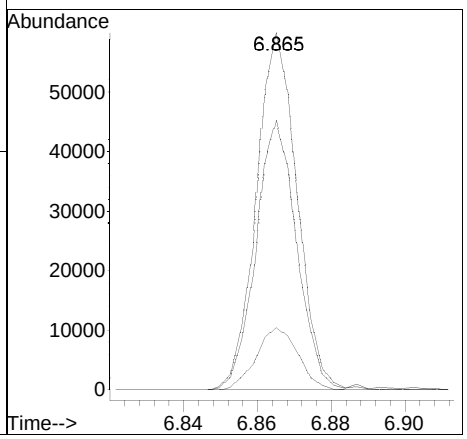


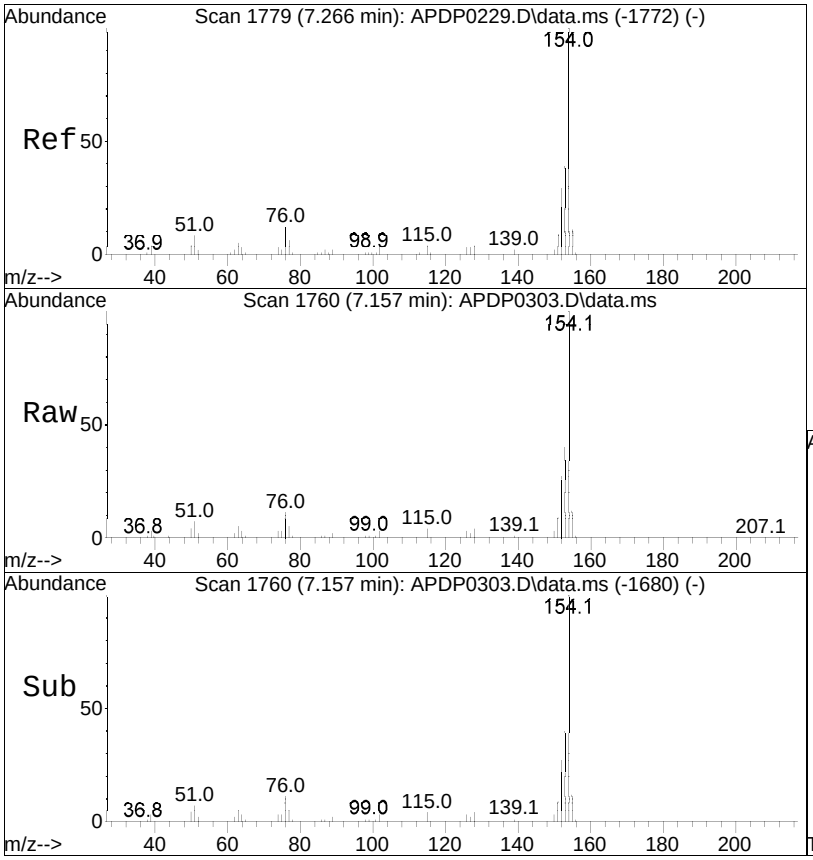


#59
1,2,4,5-Tetrachlorobenzene
Concen: 4.36 ug/ml
RT: 6.865 min Scan# 1666
Delta R.T. 0.000 min
Lab File: APDP0303.D
Acq: 3 Mar 2024 12:24 pm

Tgt Ion:216 Resp: 45853

Ion	Ratio	Lower	Upper
216	100		
214	75.7	63.7	95.5
179	17.9	19.0	28.6#

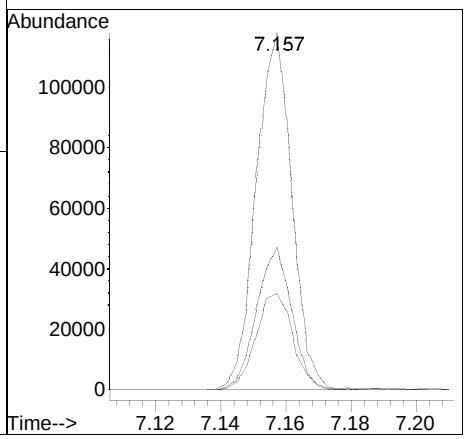


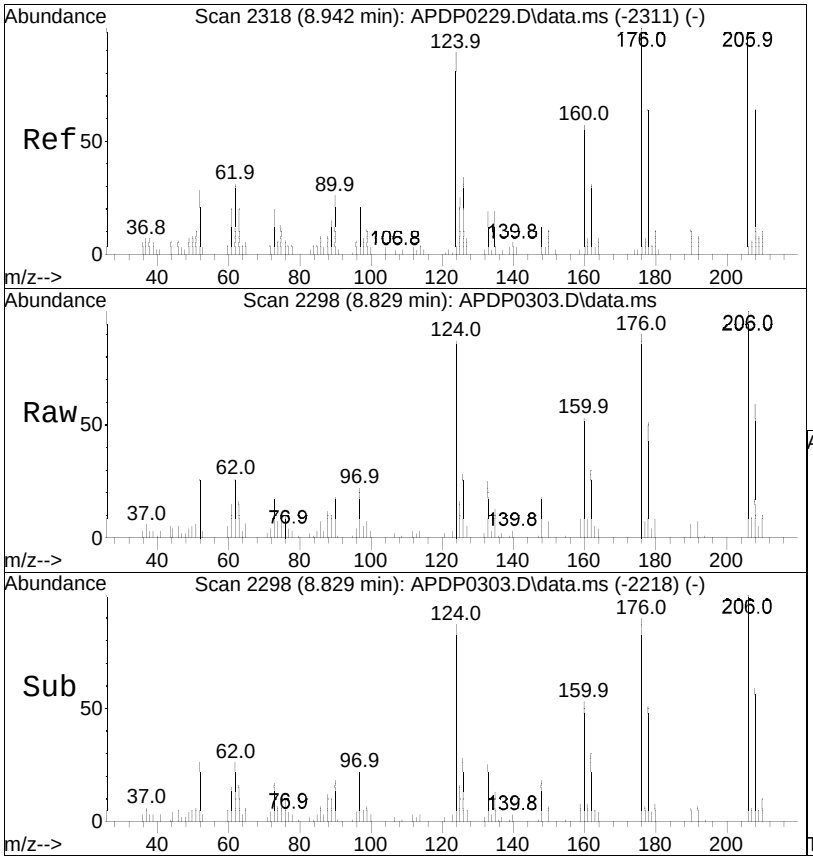


#60
Biphenyl
Concen: 4.26 ug/ml
RT: 7.157 min Scan# 1760
Delta R.T. 0.000 min
Lab File: APDP0303.D
Acq: 3 Mar 2024 12:24 pm

Tgt Ion:154 Resp: 89420

Ion	Ratio	Lower	Upper
154	100		
153	39.5	32.3	48.5
152	28.3	22.5	33.7

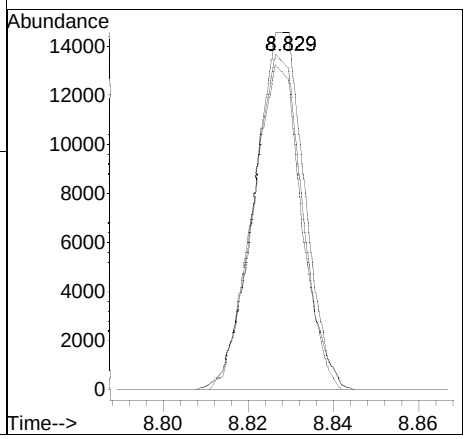


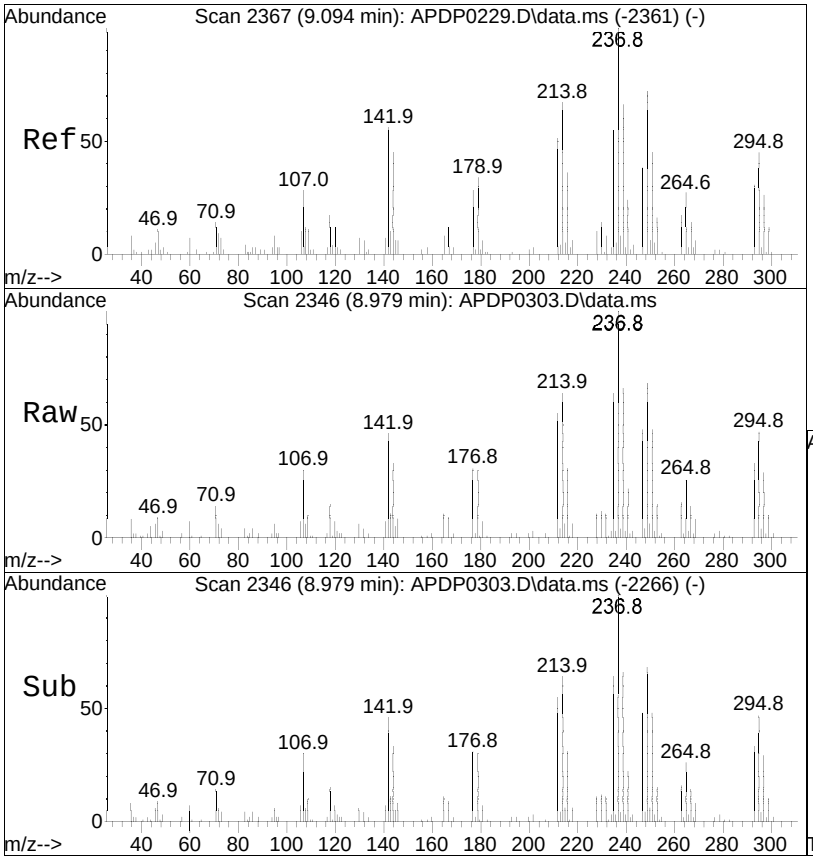


#82
Dichloran
Concen: 4.08 ug/ml
RT: 8.829 min Scan# 2298
Delta R.T. 0.000 min
Lab File: APDP0303.D
Acq: 3 Mar 2024 12:24 pm

Tgt Ion:206 Resp: 11881

Ion	Ratio	Lower	Upper
206	100		
176	92.0	104.6	157.0#
124	88.7	130.5	195.7#

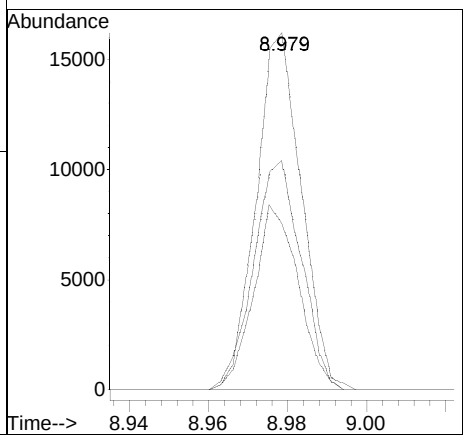


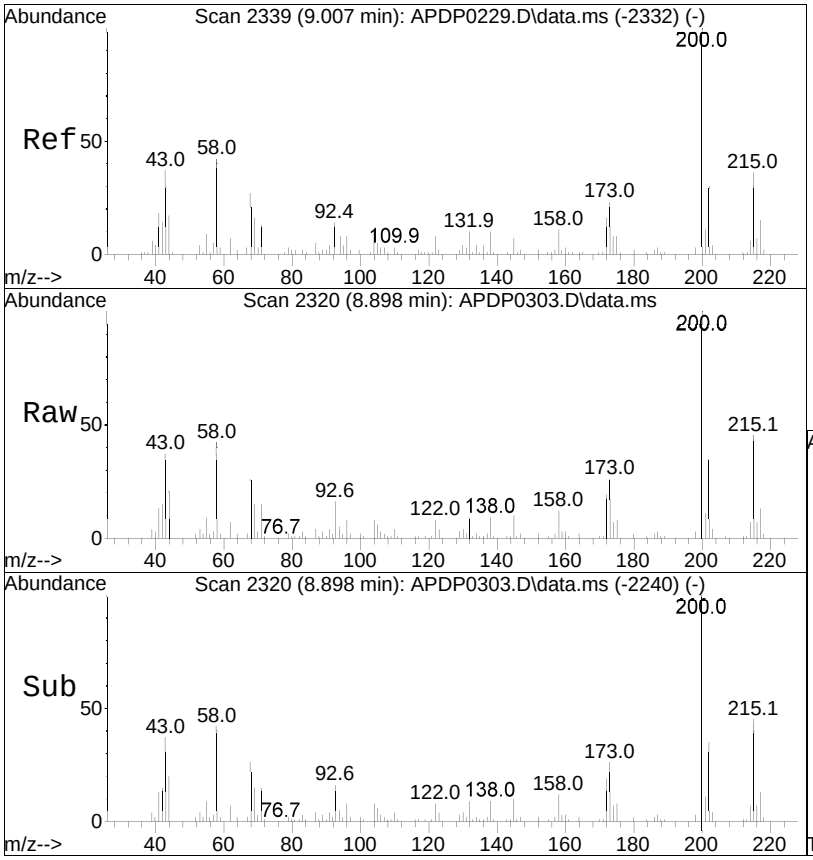


#83
Pentachloronitrobenzene
Concen: 4.12 ug/ml
RT: 8.979 min Scan# 2346
Delta R.T. 0.000 min
Lab File: APDP0303.D
Acq: 3 Mar 2024 12:24 pm

Tgt Ion:237 Resp: 12871

Ion	Ratio	Lower	Upper
237	100		
142	51.3	77.0	115.4#
214	67.7	58.2	87.4

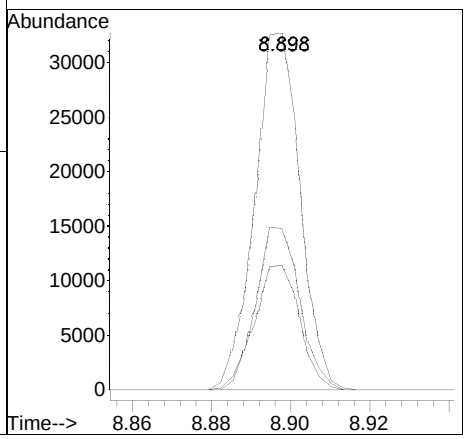


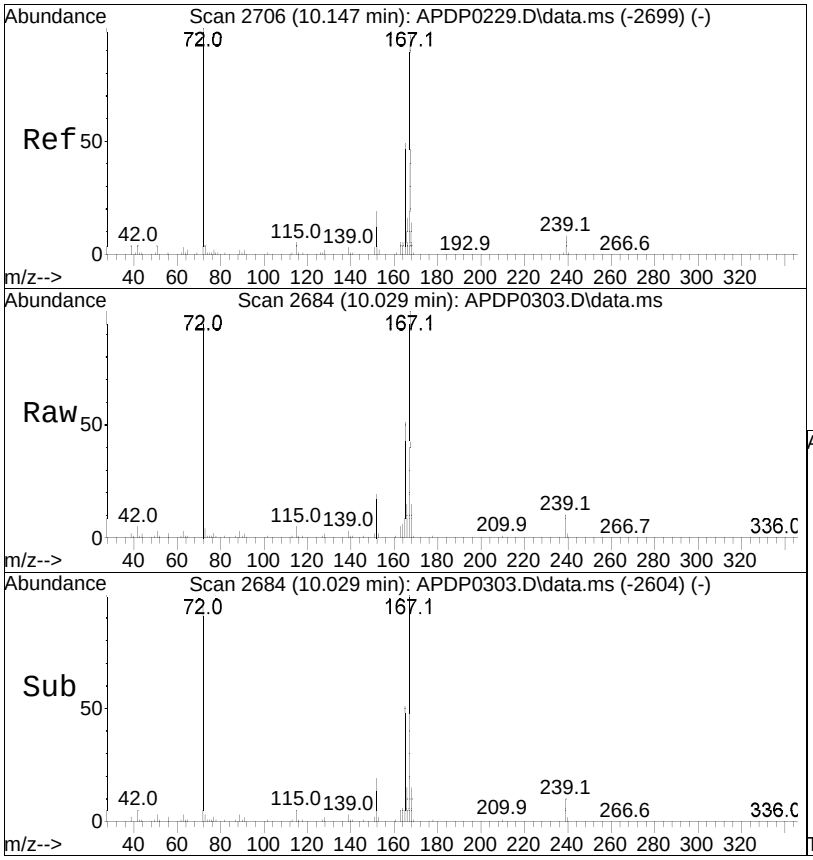


#84
Atrazine
Concen: 4.10 ug/ml
RT: 8.898 min Scan# 2320
Delta R.T. 0.000 min
Lab File: APDP0303.D
Acq: 3 Mar 2024 12:24 pm

Tgt Ion:200 Resp: 25832

Ion	Ratio	Lower	Upper
200	100		
202	34.8	25.8	38.6
215	44.6	40.2	60.4

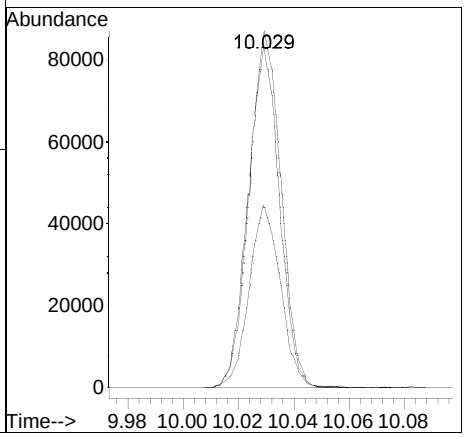


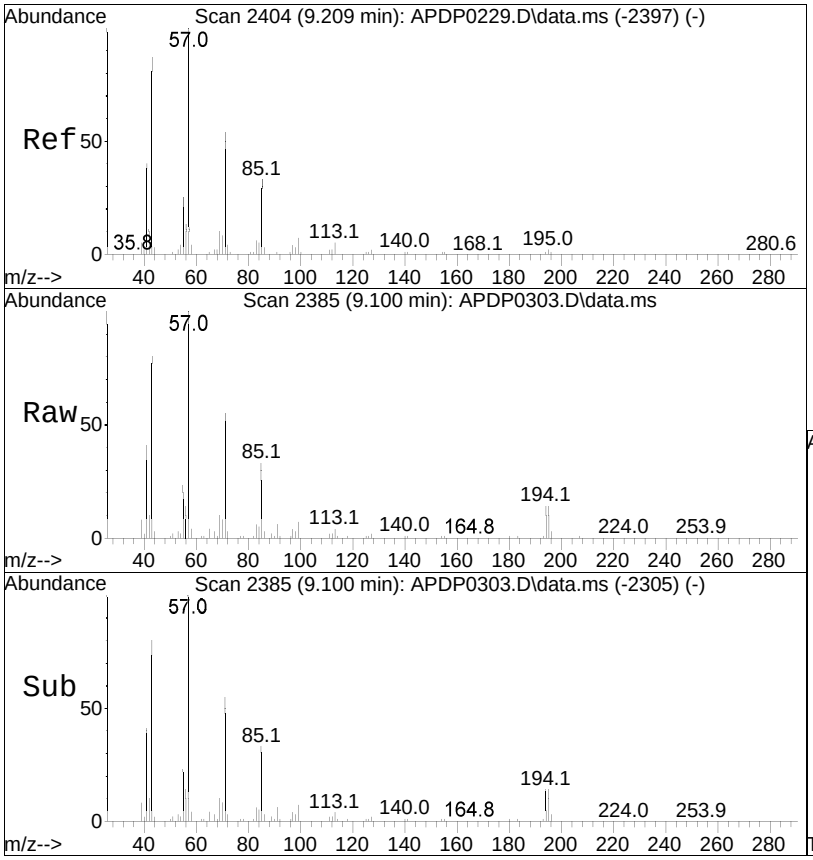


#96
Diphenamid
Concen: 4.03 ug/ml
RT: 10.029 min Scan# 2684
Delta R.T. 0.000 min
Lab File: APDP0303.D
Acq: 3 Mar 2024 12:24 pm

Tgt Ion:167 Resp: 69184

Ion	Ratio	Lower	Upper
167	100		
72	94.4	109.7	164.5#
165	51.1	41.8	62.6

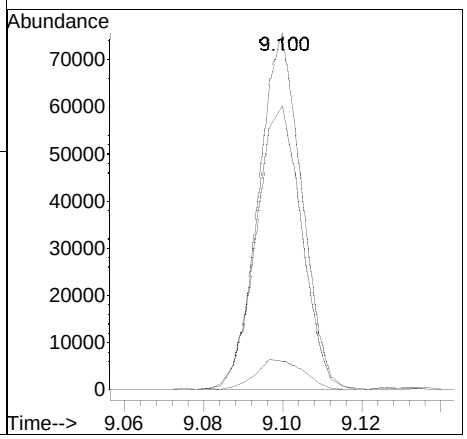


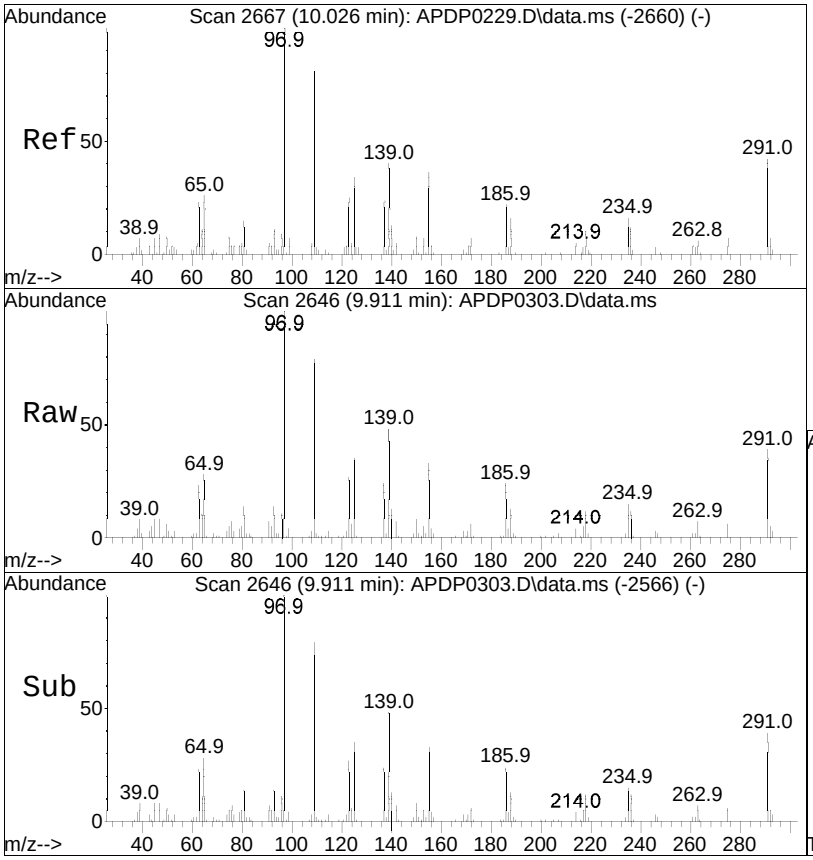


#97
n-Octadecane
Concen: 3.65 ug/ml
RT: 9.100 min Scan# 2385
Delta R.T. 0.000 min
Lab File: APDP0303.D
Acq: 3 Mar 2024 12:24 pm

Tgt Ion: 57 Resp: 56880

Ion	Ratio	Lower	Upper
57	100		
43	84.0	9.0	13.6#
70	9.3	0.2	0.2#

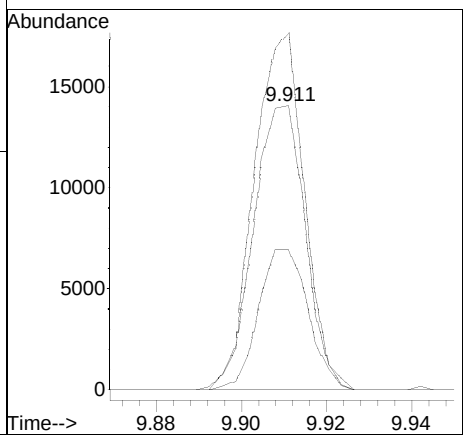


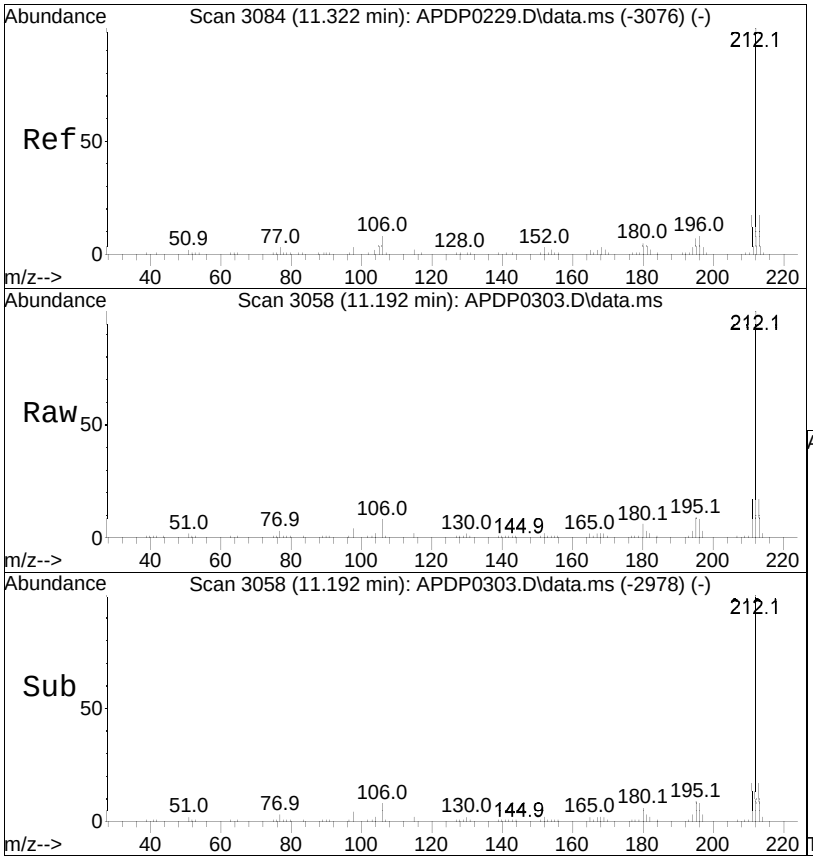


#98
Parathion
Concen: 4.06 ug/ml
RT: 9.911 min Scan# 2646
Delta R.T. 0.000 min
Lab File: APDP0303.D
Acq: 3 Mar 2024 12:24 pm

Tgt Ion:109 Resp: 11876

Ion	Ratio	Lower	Upper
109	100		
97	120.8	87.4	131.2
291	47.3	34.2	51.2

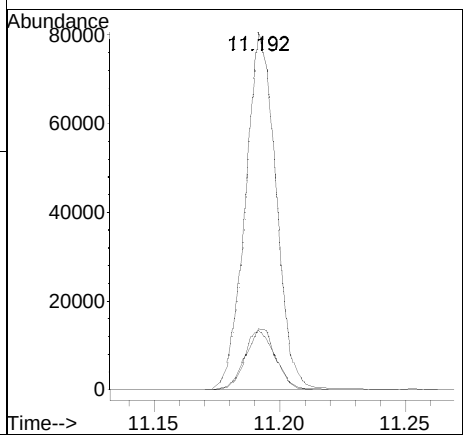




#99
3,3'-Dimethylbenzidine
Concen: 3.48 ug/ml
RT: 11.192 min Scan# 3058
Delta R.T. 0.000 min
Lab File: APDP0303.D
Acq: 3 Mar 2024 12:24 pm

Tgt Ion:212 Resp: 67485

Ion	Ratio	Lower	Upper
212	100		
211	16.8	12.9	19.3
213	17.0	13.2	19.8



Manual Integration Report

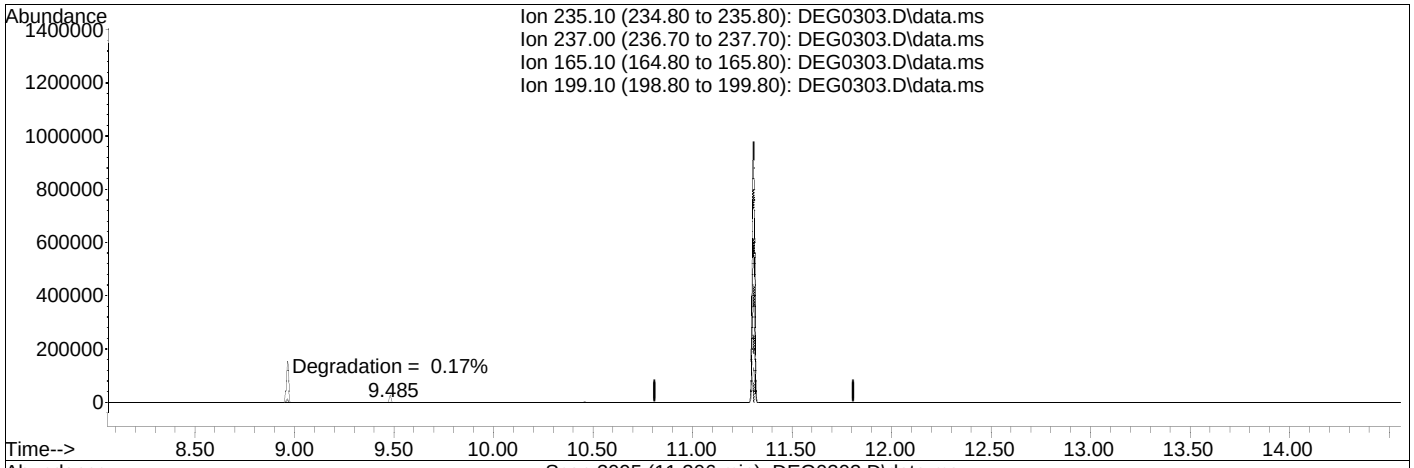
Data Path	: I:\8270\Dakota\240303alvi\	QMethod	: FS240228LVIDakota.m
Data File	: APDP0303.D	Operator	: Dakota:sz
Date Inj'd	: 3/3/2024 12:24 pm	Instrument	: Dakota
Sample	: wg1891643-4,32,,APDP 10537	Quant Date	: 3/3/2024 1:21 pm

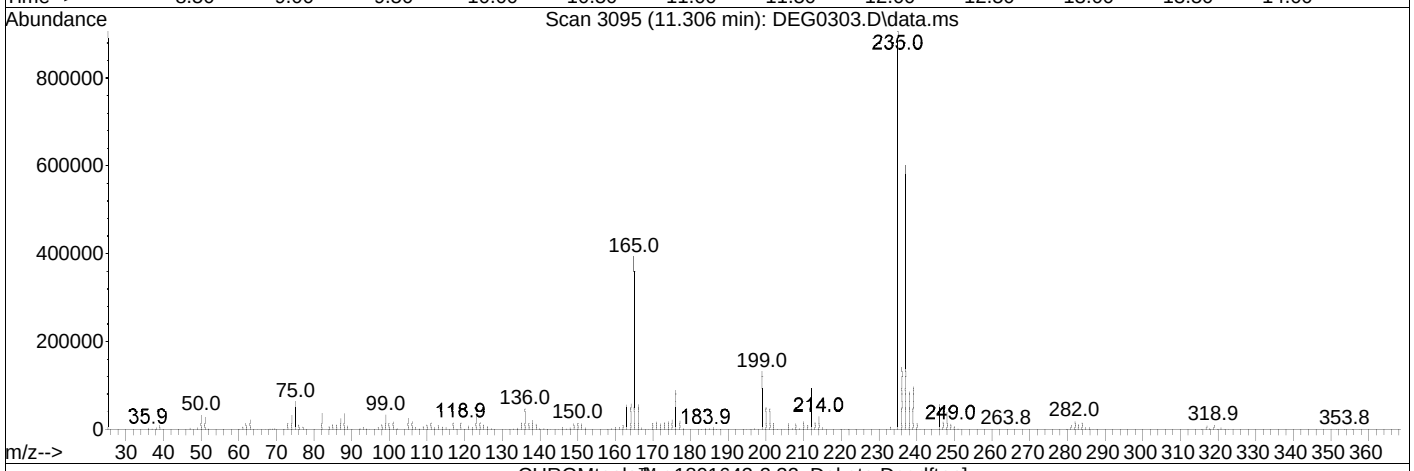
There are no manual integrations or false positives in this file.

Quantitation Report (Qedit)

Data Path : I:\8270\Dakota\240303alvi\
Data File : DEG0303.D
Acq On : 3 Mar 2024 11:39 am
Operator : Dakota:sz
Sample : wg1891643-2,32,,Dakota Degdftpp
Misc : wg1891643,,ical20900
ALS Vial : 100 Sample Multiplier: 1

Quant Time: Mar 03 12:06:45 2024
Quant Method : I:\8270\Dakota\240303alvi\DftppDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sun Mar 03 10:53:08 2024
Response via : Initial Calibration





CHROMtools [wg1891643-2,32,,Dakota Degdftpp]

(6) DDT (T)

11.306min (-0.004) 134.67

response 820883

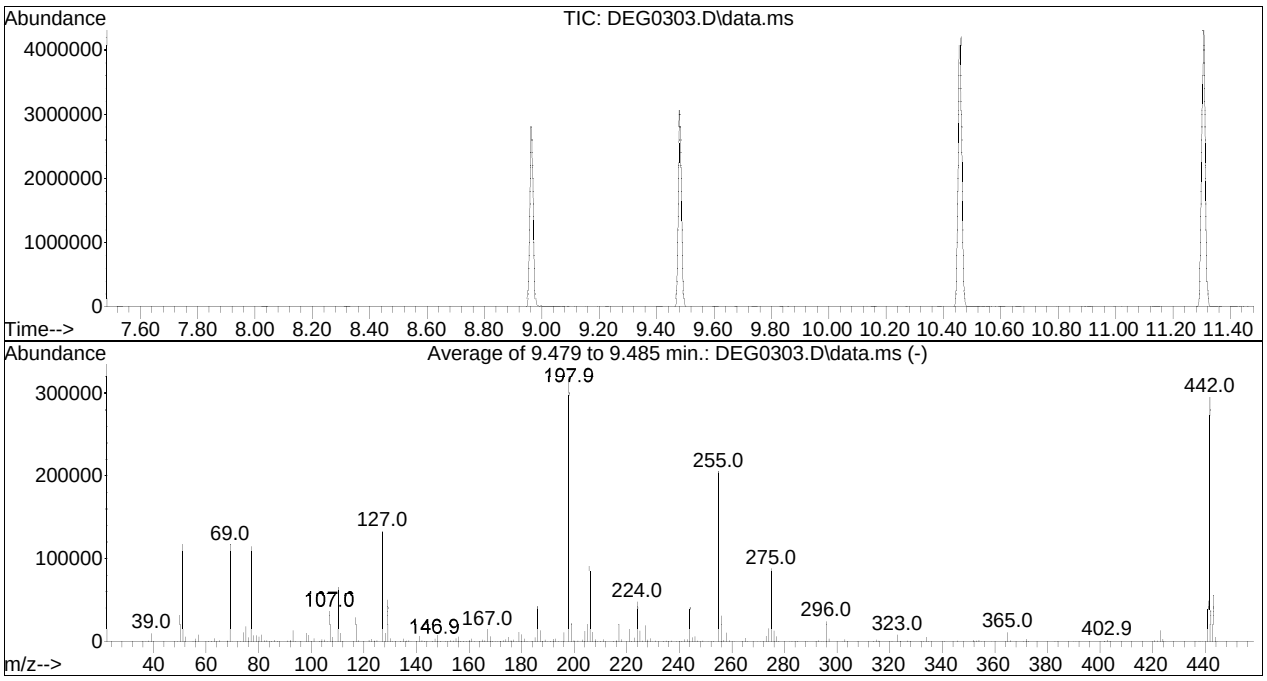
Ion	Exp%	Act%
235.10	100.00	100.00
237.00	65.30	65.52
165.10	49.60	42.71
199.10	15.70	13.88

DFTPP

Data Path : I:\8270\Dakota\240303alvi\
Data File : DEG0303.D
Acq On : 3 Mar 2024 11:39 am
Operator : Dakota:cmm
Sample : WG1891643-1,32,,Dakota Degdftpp
Misc : WG1891643,,ical20900
ALS Vial : 100 Sample Multiplier: 1

Integration File: rteint.p

Method : I:\8270\dakota\240303alvi\FS240228LVIDakota.m
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Sat Mar 02 23:56:29 2024



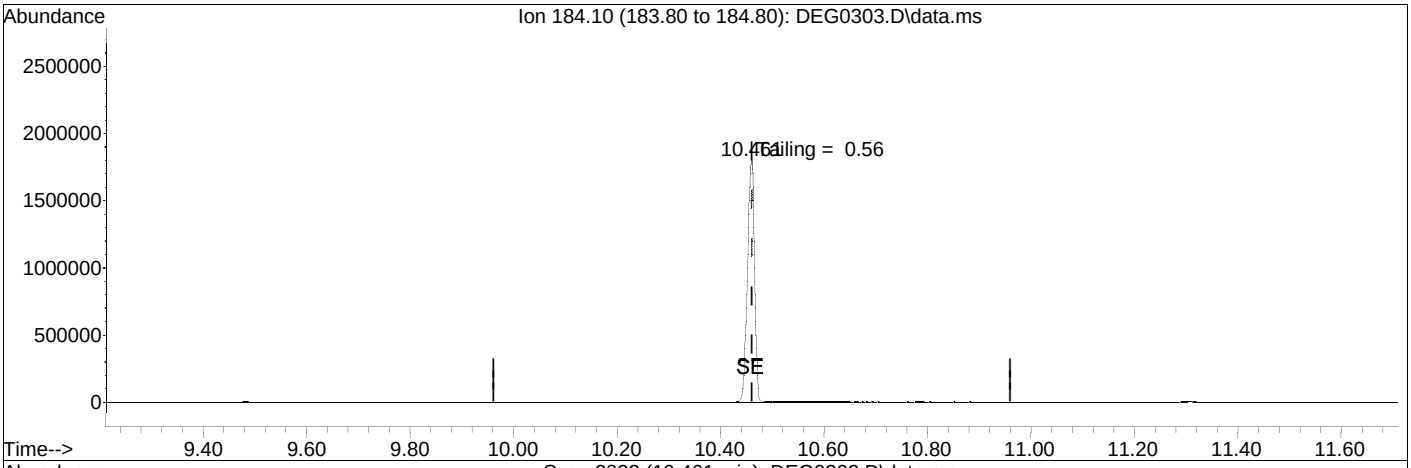
Spectrum Information: Average of 9.479 to 9.485 min.

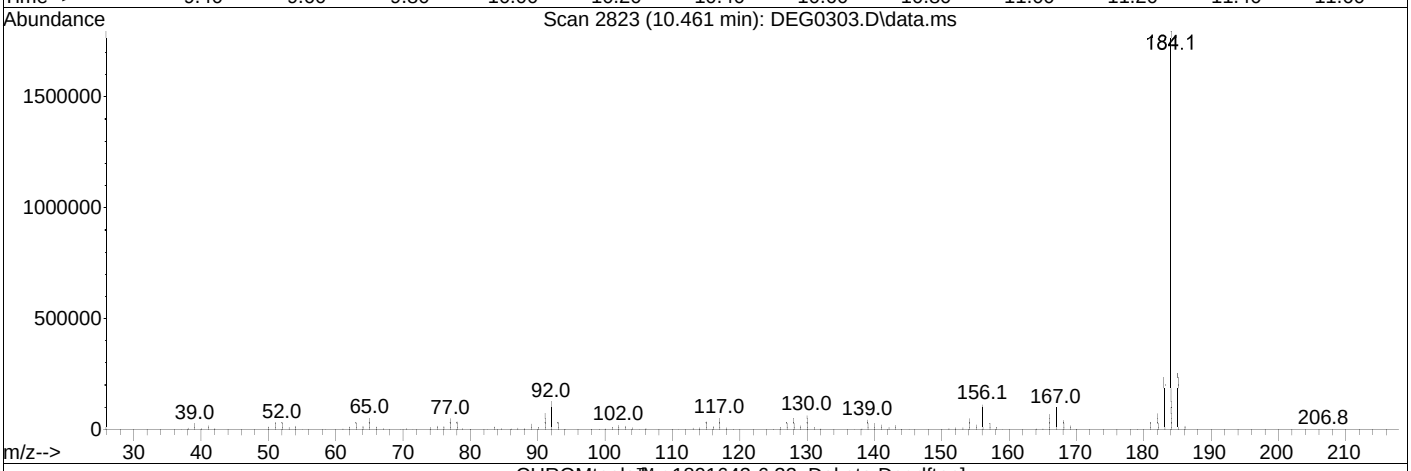
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	36.6	116541	PASS
68	69	0.00	2	1.3	1547	PASS
69	69	100	100	100.0	116696	PASS
70	69	0.00	2	0.4	474	PASS
127	198	10	80	41.7	132941	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	318827	PASS
199	198	5	9	7.0	22213	PASS
275	198	10	60	27.5	87739	PASS
365	198	1	100	3.4	10872	PASS
441	442	0.01	24	16.6	49093	PASS
442	198	50	100	92.5	295040	PASS
443	442	15	24	19.1	56467	PASS

Quantitation Report (Qedit)

Data Path : I:\8270\Dakota\240303alvi\
Data File : DEG0303.D
Acq On : 3 Mar 2024 11:39 am
Operator : Dakota:sz
Sample : wg1891643-6,32,,Dakota Degdftpp
Misc : wg1891643,,ical20900
ALS Vial : 100 Sample Multiplier: 1

Quant Time: Mar 03 12:06:45 2024
Quant Method : I:\8270\Dakota\240303alvi\DftppDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sun Mar 03 10:53:08 2024
Response via : Initial Calibration





CHROMtools TM [wg1891643-6,32,,Dakota Degdftpp]

(3) Benzidine (T)

10.461min (+ 0.000) 160.95

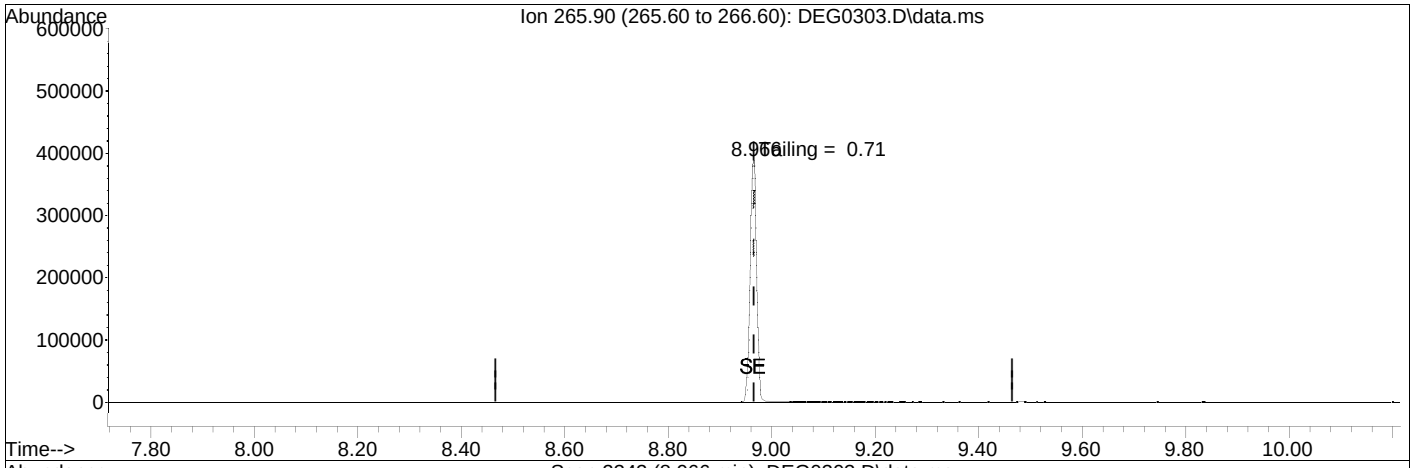
response 1638460

Ion	Exp%	Act%
184.10	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\8270\Dakota\240303alvi\
Data File : DEG0303.D
Acq On : 3 Mar 2024 11:39 am
Operator : Dakota:sz
Sample : wg1891643-7,32,,Dakota Degdftpp
Misc : wg1891643,,ical20900
ALS Vial : 100 Sample Multiplier: 1

Quant Time: Mar 03 12:06:45 2024
Quant Method : I:\8270\Dakota\240303alvi\DftppDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sun Mar 03 10:53:08 2024
Response via : Initial Calibration



CHROMtools [wg1891643-7,32,,Dakota Degdftpp]

(1) Pentachlorophenol (T)

8.966min (+ 0.000) 154.59

response 324685

Ion	Exp%	Act%
265.90	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Alpha Geoscience	**Lab Number**	: L2410579		
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116		
Instrument ID	: DAKOTA	**Calibration Date**	: 03/02/24 13:55		
Lab File ID	: ABN0302	**Init. Calib. Date(s)**	: 02/28/24	02/29/24	
Sample No	: WG1891492-3	**Init. Calib. Times**	: 20:52	04:00	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS1_1,4-Dichlorobenzene-d4	1	1	-	0	20	99	0
n-Nitrosodimethylamine	0.745	0.687	-	7.8	20	92	0
Pyridine	1.122	1.127	-	-0.4	20	102	0
2-Fluorophenol	1.071	1.025	-	4.3	20	99	0
Aniline	1.612	1.43	-	11.3	20	90	0
2-Chlorophenol	1.171	1.096	-	6.4	20	95	0
Phenol-d6	1.383	1.255	-	9.3	20	93	0
Phenol	1.528	1.405	-	8	20	91	0
Bis(2-chloroethyl)ether	1.082	0.976	-	9.8	20	94	0
1,3-Dichlorobenzene	1.495	1.397	-	6.6	20	94	0
1,4-Dichlorobenzene	1.511	1.429	-	5.4	20	97	0
1,2-Dichlorobenzene	1.439	1.34	-	6.9	20	96	0
Benzyl alcohol	0.968	0.858	-	11.4	20	91	0
Bis(2-chloroisopropyl)ethe	2.201	1.918	-	12.9	20	87	0
2-Methylphenol	1.041	0.927	-	11	20	89	0
Hexachloroethane	0.551	0.506	-	8.2	20	95	0
n-Nitrosodi-n-propylamine	0.86	0.778	-	9.5	20	93	0
3-Methylphenol/4-Methylphe	1.138	1.009	-	11.3	20	93	0
Nitrobenzene-d5	1.246	1.076	-	13.6	20	87	0
Nitrobenzene	1.226	1.05	-	14.4	20	88	0
Isophorone	2.184	1.994	-	8.7	20	89	0
2-Nitrophenol	0.574	0.511	-	11	20	91	0
2,4-Dimethylphenol	0.896	0.769	-	14.2	20	88	0
Bis(2-chloroethoxy)methane	1.404	1.265	-	9.9	20	92	0
2,4-Dichlorophenol	1.152	1.08	-	6.2	20	91	0
1,2,4-Trichlorobenzene	1.48	1.377	-	7	20	93	0
IS1_Naphthalene-d8	1	1	-	0	20	98	0
Naphthalene	1.012	0.952	-	5.9	20	91	0
Benzoic Acid	5	4.61	-	7.8	20	98	0
4-Chloroaniline	0.129	0.117	-	9.3	20	86	0
Hexachlorobutadiene	0.251	0.245	-	2.4	20	92	0
p-Chloro-m-cresol	0.282	0.273	-	3.2	20	95	0
2-Methylnaphthalene	0.713	0.67	-	6	20	94	0
1-Methylnaphthalene	0.228	0.209	-	8.3	20	89	0
Hexachlorocyclopentadiene	0.234	0.228	-	2.6	20	97	0
2,4,6-Trichlorophenol	0.277	0.272	-	1.8	20	97	0
2,4,5-Trichlorophenol	0.303	0.301	-	0.7	20	95	0
2-Fluorobiphenyl	0.897	0.893	-	0.4	20	98	0
2-Chloronaphthalene	0.76	0.747	-	1.7	20	94	0
2-Nitroaniline	0.198	0.192	-	3	20	93	0
1,4-Dinitrobenzene	0.089	0.091	-	-2.2	20	97	0
1,3-Dinitrobenzene	0.106	0.106	-	0	20	101	0
Dimethyl phthalate	0.86	0.905	-	-5.2	20	102	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Alpha Geoscience	**Lab Number**	: L2410579		
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116		
Instrument ID	: DAKOTA	**Calibration Date**	: 03/02/24 13:55		
Lab File ID	: ABN0302	**Init. Calib. Date(s)**	: 02/28/24	02/29/24	
Sample No	: WG1891492-3	**Init. Calib. Times**	: 20:52	04:00	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Acenaphthylene	1.151	1.148	-	0.3	20	94	0
2,6-Dinitrotoluene	0.168	0.177	-	-5.4	20	101	0
1,2-Dinitrobenzene	0.067	0.067	-	0	20	96	0
IS1_Acenaphthene-d10	1	1	-	0	20	102	0
3-Nitroaniline	0.285	0.272	-	4.6	20	96	0
Acenaphthene	1.021	0.943	-	7.6	20	97	0
2,4-Dinitrophenol	5	4.884	-	2.3	20	113	0
Dibenzofuran	1.765	1.661	-	5.9	20	98	0
2,4-Dinitrotoluene	5	4.661	-	6.8	20	102	0
4-Nitrophenol	0.235	0.213	-	9.4	20	96	0
2,3,5,6-Tetrachlorophenol	0.414	0.401	-	3.1	20	100	0
2,3,4,6-Tetrachlorophenol	0.397	0.386	-	2.8	20	98	0
Diethyl phthalate	1.34	1.259	-	6	20	98	0
Fluorene	1.35	1.242	-	8	20	96	0
4-Chlorophenyl phenyl ethe	0.713	0.674	-	5.5	20	99	0
4-Nitroaniline	0.283	0.271	-	4.2	20	97	0
4,6-Dinitro-o-cresol	5	4.78	-	4.4	20	107	0
NDPA/DPA	1.118	1.067	-	4.6	20	99	0
Azobenzene	1.188	1.078	-	9.3	20	95	0
2,4,6-Tribromophenol	0.263	0.258	-	1.9	20	104	0
4-Bromophenyl phenyl ether	0.455	0.436	-	4.2	20	100	0
Hexachlorobenzene	0.556	0.545	-	2	20	106	0
Pentachlorophenol	0.37	0.328	-	11.4	20	98	0
IS1_Phenanthrene-d10	1	1	-	0	20	107	0
Phenanthrene	1.038	0.93	-	10.4	20	98	0
Anthracene	1.027	0.95	-	7.5	20	101	0
Carbazole	0.968	0.892	-	7.9	20	99	0
Di-n-butylphthalate	1.074	0.936	-	12.8	20	95	0
Fluoranthene	1.291	1.19	-	7.8	20	103	0
Benzidine	0.761	0.686	-	9.9	20	95	0
Pyrene	1.359	1.253	-	7.8	20	100	0
4-Terphenyl-d14	1.045	0.984	-	5.8	20	102	0
Butyl benzyl phthalate	5	4.123	-	17.5	20	94	0
IS1_Chrysene-d12	1	1	-	0	20	110	0
Benzo(a)anthracene	1.368	1.225	-	10.5	20	103	0
3,3'-Dichlorobenzidine	0.514	0.463	-	9.9	20	101	0
Chrysene	1.333	1.17	-	12.2	20	101	0
Bis(2-ethylhexyl)phthalate	5	3.803	-	23.9*	20	91	0
Di-n-octylphthalate	5	3.825	-	23.5*	20	91	0
Benzo(b)fluoranthene	1.411	1.307	-	7.4	20	105	0
Benzo(k)fluoranthene	1.392	1.241	-	10.8	20	100	0
Benzo(a)pyrene	1.302	1.19	-	8.6	20	102	0
IS1_Perylene-d12	1	1	-	0	20	111	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Alpha Geoscience		**Lab Number**	: L2410579	
Project Name	: HUNTINGTON READY MIX		**Project Number**	: 20116	
Instrument ID	: DAKOTA		**Calibration Date**	: 03/02/24 13:55	
Lab File ID	: ABN0302		**Init. Calib. Date(s)**	: 02/28/24	02/29/24
Sample No	: WG1891492-3		**Init. Calib. Times**	: 20:52	04:00
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Indeno(1,2,3-cd)pyrene	1.256	1.111	-	11.5	20	100	0
Dibenzo(a,h)anthracene	1.175	1.083	-	7.8	20	101	0
Benzo(ghi)perylene	1.182	1.046	-	11.5	20	98	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Alpha Geoscience	**Lab Number**	: L2410579		
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116		
Instrument ID	: DAKOTA	**Calibration Date**	: 03/02/24 14:17		
Lab File ID	: APDP0302	**Init. Calib. Date(s)**	: 02/28/24	02/29/24	
Sample No	: WG1891492-4	**Init. Calib. Times**	: 20:52	04:00	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS2_1,4-Dichlorobenzene-d4	1	1	-	0	20	83	0
Benzaldehyde	0.482	0.481	-	0.2	20	84	0
Acetophenone	1.694	1.701	-	-0.4	20	84	0
m-Toluidine	1.213	1.258	-	-3.7	20	84	0
2-Chloroaniline	1.433	1.506	-	-5.1	20	86	0
n-Decane	1.418	1.297	-	8.5	20	78	0
IS2_Naphthalene-d8	1	1	-	0	20	82	0
a-Terpineol	0.299	0.286	-	4.3	20	80	0
3-Chloroaniline	0.132	0.134	-	-1.5	20	84	0
2,6-Dichlorophenol	0.316	0.331	-	-4.7	20	85	0
1-chloro-2-nitrobenzene	0.129	0.133	-	-3.1	20	82	0
Caprolactam	0.165	0.167	-	-1.2	20	90	0
1,2,4,5-Tetrachlorobenzene	0.447	0.488	-	-9.2	20	92	0
Biphenyl	0.891	0.946	-	-6.2	20	86	0
IS2_Acenaphthene-d10	1	1	-	0	20	89	0
Dichloran	0.178	0.183	-	-2.8	20	104	0
Pentachloronitrobenzene	0.19	0.191	-	-0.5	20	90	0
Atrazine	0.384	0.439	-	-14.3	20	102	0
IS2_Phenanthrene-d10	1	1	-	0	20	95	0
Diphenamid	0.446	0.466	-	-4.5	20	99	0
n-Octadecane	0.405	0.344	-	15.1	20	79	0
Parathion	5	4.856	-	2.9	20	97	0
3,3'-Dimethylbenzidine	5	4.708	-	5.8	20	96	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Alpha Geoscience	**Lab Number**	: L2410579		
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116		
Instrument ID	: DAKOTA	**Calibration Date**	: 03/03/24 12:02		
Lab File ID	: ABN0303	**Init. Calib. Date(s)**	: 02/28/24	02/29/24	
Sample No	: WG1891643-3	**Init. Calib. Times**	: 20:52	04:00	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS1_1,4-Dichlorobenzene-d4	1	1	-	0	20	107	0
n-Nitrosodimethylamine	0.745	0.645	-	13.4	20	94	0
Pyridine	1.122	0.997	-	11.1	20	98	0
2-Fluorophenol	1.071	0.942	-	12	20	99	0
Aniline	1.612	1.389	-	13.8	20	95	0
2-Chlorophenol	1.171	1.061	-	9.4	20	99	0
Phenol-d6	1.383	1.242	-	10.2	20	99	0
Phenol	1.528	1.341	-	12.2	20	94	0
Bis(2-chloroethyl)ether	1.082	0.956	-	11.6	20	100	0
1,3-Dichlorobenzene	1.495	1.388	-	7.2	20	102	0
1,4-Dichlorobenzene	1.511	1.41	-	6.7	20	104	0
1,2-Dichlorobenzene	1.439	1.339	-	6.9	20	104	0
Benzyl alcohol	0.968	0.83	-	14.3	20	96	0
Bis(2-chloroisopropyl)ethe	2.201	1.989	-	9.6	20	98	0
2-Methylphenol	1.041	0.923	-	11.3	20	96	0
Hexachloroethane	0.551	0.511	-	7.3	20	104	0
n-Nitrosodi-n-propylamine	0.86	0.745	-	13.4	20	97	0
3-Methylphenol/4-Methylphe	1.138	1.004	-	11.8	20	100	0
Nitrobenzene-d5	1.246	1.096	-	12	20	96	0
Nitrobenzene	1.226	1.062	-	13.4	20	97	0
Isophorone	2.184	1.965	-	10	20	95	0
2-Nitrophenol	0.574	0.531	-	7.5	20	103	0
2,4-Dimethylphenol	0.896	0.791	-	11.7	20	98	0
Bis(2-chloroethoxy)methane	1.404	1.277	-	9	20	100	0
2,4-Dichlorophenol	1.152	1.112	-	3.5	20	102	0
1,2,4-Trichlorobenzene	1.48	1.385	-	6.4	20	102	0
IS1_Naphthalene-d8	1	1	-	0	20	108	0
Naphthalene	1.012	0.947	-	6.4	20	100	0
Benzoic Acid	5	4.525	-	9.5	20	106	0
4-Chloroaniline	0.129	0.113	-	12.4	20	91	0
Hexachlorobutadiene	0.251	0.254	-	-1.2	20	106	0
p-Chloro-m-cresol	0.282	0.255	-	9.6	20	98	0
2-Methylnaphthalene	0.713	0.666	-	6.6	20	104	0
1-Methylnaphthalene	0.228	0.209	-	8.3	20	98	0
Hexachlorocyclopentadiene	0.234	0.232	-	0.9	20	109	0
2,4,6-Trichlorophenol	0.277	0.279	-	-0.7	20	110	0
2,4,5-Trichlorophenol	0.303	0.293	-	3.3	20	102	0
2-Fluorobiphenyl	0.897	0.871	-	2.9	20	106	0
2-Chloronaphthalene	0.76	0.733	-	3.6	20	102	0
2-Nitroaniline	0.198	0.193	-	2.5	20	103	0
1,4-Dinitrobenzene	0.089	0.097	-	-9	20	114	0
1,3-Dinitrobenzene	0.106	0.106	-	0	20	112	0
Dimethyl phthalate	0.86	0.894	-	-4	20	111	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Alpha Geoscience	**Lab Number**	: L2410579		
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116		
Instrument ID	: DAKOTA	**Calibration Date**	: 03/03/24 12:02		
Lab File ID	: ABN0303	**Init. Calib. Date(s)**	: 02/28/24	02/29/24	
Sample No	: WG1891643-3	**Init. Calib. Times**	: 20:52	04:00	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Acenaphthylene	1.151	1.12	-	2.7	20	102	0
2,6-Dinitrotoluene	0.168	0.171	-	-1.8	20	107	0
1,2-Dinitrobenzene	0.067	0.067	-	0	20	106	0
IS1_Acenaphthene-d10	1	1	-	0	20	107	0
3-Nitroaniline	0.285	0.268	-	6	20	100	0
Acenaphthene	1.021	0.949	-	7.1	20	102	0
2,4-Dinitrophenol	5	5.016	-	-0.3	20	122	0
Dibenzofuran	1.765	1.679	-	4.9	20	104	0
2,4-Dinitrotoluene	5	4.86	-	2.8	20	112	0
4-Nitrophenol	0.235	0.219	-	6.8	20	104	0
2,3,5,6-Tetrachlorophenol	0.414	0.414	-	0	20	108	0
2,3,4,6-Tetrachlorophenol	0.397	0.401	-	-1	20	107	0
Diethyl phthalate	1.34	1.326	-	1	20	108	0
Fluorene	1.35	1.306	-	3.3	20	106	0
4-Chlorophenyl phenyl ethe	0.713	0.717	-	-0.6	20	111	0
4-Nitroaniline	0.283	0.272	-	3.9	20	103	0
4,6-Dinitro-o-cresol	5	5.073	-	-1.5	20	120	0
NDPA/DPA	1.118	1.102	-	1.4	20	107	0
Azobenzene	1.188	1.101	-	7.3	20	102	0
2,4,6-Tribromophenol	0.263	0.27	-	-2.7	20	115	0
4-Bromophenyl phenyl ether	0.455	0.471	-	-3.5	20	114	0
Hexachlorobenzene	0.556	0.567	-	-2	20	116	0
Pentachlorophenol	0.37	0.344	-	7	20	108	0
IS1_Phenanthrene-d10	1	1	-	0	20	115	0
Phenanthrene	1.038	0.941	-	9.3	20	106	0
Anthracene	1.027	0.948	-	7.7	20	108	0
Carbazole	0.968	0.879	-	9.2	20	104	0
Di-n-butylphthalate	1.074	1.013	-	5.7	20	110	0
Fluoranthene	1.291	1.18	-	8.6	20	109	0
Benzidine	0.761	0.698	-	8.3	20	103	0
Pyrene	1.359	1.244	-	8.5	20	107	0
4-Terphenyl-d14	1.045	1.018	-	2.6	20	113	0
Butyl benzyl phthalate	5	4.37	-	12.6	20	107	0
IS1_Chrysene-d12	1	1	-	0	20	118	0
Benzo(a)anthracene	1.368	1.233	-	9.9	20	111	0
3,3'-Dichlorobenzidine	0.514	0.464	-	9.7	20	109	0
Chrysene	1.333	1.166	-	12.5	20	109	0
Bis(2-ethylhexyl)phthalate	5	4.35	-	13	20	113	0
Di-n-octylphthalate	5	4.249	-	15	20	111	0
Benzo(b)fluoranthene	1.411	1.304	-	7.6	20	112	0
Benzo(k)fluoranthene	1.392	1.237	-	11.1	20	108	0
Benzo(a)pyrene	1.302	1.17	-	10.1	20	108	0
IS1_Perylene-d12	1	1	-	0	20	120	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Alpha Geoscience		**Lab Number**	: L2410579	
Project Name	: HUNTINGTON READY MIX		**Project Number**	: 20116	
Instrument ID	: DAKOTA		**Calibration Date**	: 03/03/24 12:02	
Lab File ID	: ABN0303		**Init. Calib. Date(s)**	: 02/28/24	02/29/24
Sample No	: WG1891643-3		**Init. Calib. Times**	: 20:52	04:00
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Indeno(1,2,3-cd)pyrene	1.256	1.15	-	8.4	20	112	0
Dibenzo(a,h)anthracene	1.175	1.059	-	9.9	20	107	0
Benzo(ghi)perylene	1.182	1.023	-	13.5	20	104	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Alpha Geoscience	**Lab Number**	: L2410579		
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116		
Instrument ID	: DAKOTA	**Calibration Date**	: 03/03/24 12:24		
Lab File ID	: APDP0303	**Init. Calib. Date(s)**	: 02/28/24	02/29/24	
Sample No	: WG1891643-4	**Init. Calib. Times**	: 20:52	04:00	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS2_1,4-Dichlorobenzene-d4	1	1	-	0	20	108	0
Benzaldehyde	0.482	0.387	-	19.7	20	88	0
Acetophenone	1.694	1.391	-	17.9	20	89	0
m-Toluidine	1.213	1.007	-	17	20	87	0
2-Chloroaniline	1.433	1.222	-	14.7	20	91	0
n-Decane	1.418	1.134	-	20	20	89	0
IS2_Naphthalene-d8	1	1	-	0	20	109	0
a-Terpineol	0.299	0.24	-	19.7	20	89	0
3-Chloroaniline	0.132	0.104	-	21.2*	20	88	0
2,6-Dichlorophenol	0.316	0.265	-	16.1	20	91	0
1-chloro-2-nitrobenzene	0.129	0.11	-	14.7	20	91	0
Caprolactam	0.165	0.132	-	20	20	96	0
1,2,4,5-Tetrachlorobenzene	0.447	0.389	-	13	20	98	0
Biphenyl	0.891	0.759	-	14.8	20	92	0
IS2_Acenaphthene-d10	1	1	-	0	20	120	0
Dichloran	0.178	0.145	-	18.5	20	112	0
Pentachloronitrobenzene	0.19	0.157	-	17.4	20	101	0
Atrazine	0.384	0.315	-	18	20	99	0
IS2_Phenanthrene-d10	1	1	-	0	20	128	0
Diphenamid	0.446	0.359	-	19.5	20	103	0
n-Octadecane	0.405	0.295	-	27.2*	20	92	0
Parathion	5	4.059	-	18.8	20	107	0
3,3'-Dimethylbenzidine	5	3.483	-	30.3*	20	93	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Alpha Geoscience	**Lab Number**	: L2410579		
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116		
Instrument ID	: SV106	**Calibration Date**	: 03/05/24 00:10		
Lab File ID	: ABN0304N	**Init. Calib. Date(s)**	: 09/02/23	09/03/23	
Sample No	: WG1891342-3	**Init. Calib. Times**	: 12:13	00:52	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS1_1,4-Dichlorobenzene-d4	1	1	-	0	20	103	0
n-Nitrosodimethylamine	0.677	0.721	-	-6.5	20	119	0
Pyridine	1.151	1.068	-	7.2	20	103	0
2-Fluorophenol	1.116	1.094	-	2	20	113	0
Aniline	1.893	1.573	-	16.9	20	94	0
2-Chlorophenol	1.274	1.209	-	5.1	20	105	0
Phenol-d6	1.437	1.427	-	0.7	20	110	0
Phenol	1.521	1.456	-	4.3	20	109	0
Bis(2-chloroethyl)ether	1.222	1.164	-	4.7	20	107	0
1,3-Dichlorobenzene	1.461	1.381	-	5.5	20	106	0
1,4-Dichlorobenzene	1.503	1.391	-	7.5	20	106	0
1,2-Dichlorobenzene	1.431	1.353	-	5.5	20	108	0
Benzyl alcohol	1.074	1.038	-	3.4	20	108	0
Bis(2-chloroisopropyl)ethe	1.8	1.822	-	-1.2	20	114	0
2-Methylphenol	1.138	1.029	-	9.6	20	104	0
Hexachloroethane	0.586	0.551	-	6	20	106	0
n-Nitrosodi-n-propylamine	0.923	0.844	-	8.6	20	104	0
3-Methylphenol/4-Methylphe	1.193	1.093	-	8.4	20	103	0
Nitrobenzene-d5	1.303	1.37	-	-5.1	20	121	0
Nitrobenzene	1.295	1.316	-	-1.6	20	114	0
Isophorone	2.478	2.297	-	7.3	20	106	0
2-Nitrophenol	0.518	0.641	-	-23.7*	20	141	0
2,4-Dimethylphenol	1.281	0.762	-	40.5*	20	65	0
Bis(2-chloroethoxy)methane	1.552	1.492	-	3.9	20	108	0
2,4-Dichlorophenol	1.076	1.1	-	-2.2	20	111	0
1,2,4-Trichlorobenzene	1.235	1.26	-	-2	20	117	0
IS1_Naphthalene-d8	1	1	-	0	20	102	0
Naphthalene	1.008	0.915	-	9.2	20	105	0
Benzoic Acid	5	5.4	-	-8	20	132	0
4-Chloroaniline	0.132	0.126	-	4.5	20	108	0
Hexachlorobutadiene	0.206	0.199	-	3.4	20	113	0
p-Chloro-m-cresol	0.291	0.28	-	3.8	20	107	0
2-Methylnaphthalene	0.642	0.627	-	2.3	20	112	0
1-Methylnaphthalene	0.241	0.222	-	7.9	20	104	0
Hexachlorocyclopentadiene	0.219	0.181	-	17.4	20	95	0
2,4,6-Trichlorophenol	0.209	0.224	-	-7.2	20	125	0
2,4,5-Trichlorophenol	0.224	0.241	-	-7.6	20	126	0
2-Fluorobiphenyl	0.764	0.759	-	0.7	20	115	0
2-Chloronaphthalene	0.669	0.628	-	6.1	20	107	0
2-Nitroaniline	5	5.094	-	-1.9	20	124	0
1,4-Dinitrobenzene	5	6.371	-	-27.4*	20	172	0
1,3-Dinitrobenzene	5	6.103	-	-22.1*	20	153	0
Dimethyl phthalate	0.787	0.77	-	2.2	20	111	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Alpha Geoscience	**Lab Number**	: L2410579		
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116		
Instrument ID	: SV106	**Calibration Date**	: 03/05/24 00:10		
Lab File ID	: ABN0304N	**Init. Calib. Date(s)**	: 09/02/23	09/03/23	
Sample No	: WG1891342-3	**Init. Calib. Times**	: 12:13	00:52	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Acenaphthylene	1.077	0.988	-	8.3	20	106	0
2,6-Dinitrotoluene	5	5.461	-	-9.2	20	135	0
1,2-Dinitrobenzene	0.063	0.073	-	-15.9	20	133	0
IS1_Acenaphthene-d10	1	1	-	0	20	115	0
3-Nitroaniline	0.286	0.28	-	2.1	20	124	0
Acenaphthene	1.131	0.933	-	17.5	20	108	0
2,4-Dinitrophenol	5	6.503	-	-30.1*	20	185	0
Dibenzofuran	1.69	1.493	-	11.7	20	114	0
2,4-Dinitrotoluene	5	5.436	-	-8.7	20	151	0
4-Nitrophenol	5	4.917	-	1.7	20	136	0
2,3,5,6-Tetrachlorophenol	0.325	0.346	-	-6.5	20	134	0
2,3,4,6-Tetrachlorophenol	0.337	0.329	-	2.4	20	124	0
Diethyl phthalate	1.415	1.233	-	12.9	20	109	0
Fluorene	1.336	1.216	-	9	20	116	0
4-Chlorophenyl phenyl ethe	0.637	0.602	-	5.5	20	123	0
4-Nitroaniline	0.289	0.279	-	3.5	20	116	0
4,6-Dinitro-o-cresol	5	6.94	-	-38.8*	20	219	0
NDPA/DPA	1.124	1.019	-	9.3	20	114	0
Azobenzene	1.319	1.098	-	16.8	20	106	0
2,4,6-Tribromophenol	0.184	0.181	-	1.6	20	123	0
4-Bromophenyl phenyl ether	0.371	0.345	-	7	20	120	0
Hexachlorobenzene	0.432	0.385	-	10.9	20	118	0
Pentachlorophenol	5	5.004	-	-0.1	20	138	0
IS1_Phenanthrene-d10	1	1	-	0	20	126	0
Phenanthrene	1.089	0.888	-	18.5	20	115	0
Anthracene	1.084	0.907	-	16.3	20	117	0
Carbazole	0.991	0.843	-	14.9	20	117	0
Di-n-butylphthalate	1.269	1.014	-	20.1*	20	110	0
Fluoranthene	1.165	1.061	-	8.9	20	129	0
Benzidine	0.77	0.575	-	25.3*	20	103	0
Pyrene	1.233	1.095	-	11.2	20	126	0
4-Terphenyl-d14	0.877	0.781	-	10.9	20	124	0
Butyl benzyl phthalate	0.541	0.434	-	19.8	20	111	0
IS1_Chrysene-d12	1	1	-	0	20	126	0
Benzo(a)anthracene	1.326	1.154	-	13	20	122	0
3,3'-Dichlorobenzidine	0.472	0.41	-	13.1	20	118	0
Chrysene	1.231	1.106	-	10.2	20	127	0
Bis(2-ethylhexyl)phthalate	0.889	0.718	-	19.2	20	109	0
Di-n-octylphthalate	1.499	1.216	-	18.9	20	109	0
Benzo(b)fluoranthene	1.266	1.145	-	9.6	20	128	0
Benzo(k)fluoranthene	1.214	1.016	-	16.3	20	110	0
Benzo(a)pyrene	1.083	1.033	-	4.6	20	131	0
IS1_Perylene-d12	1	1	-	0	20	124	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Alpha Geoscience		**Lab Number**	: L2410579	
Project Name	: HUNTINGTON READY MIX		**Project Number**	: 20116	
Instrument ID	: SV106		**Calibration Date**	: 03/05/24 00:10	
Lab File ID	: ABN0304N		**Init. Calib. Date(s)**	: 09/02/23	09/03/23
Sample No	: WG1891342-3		**Init. Calib. Times**	: 12:13	00:52
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Indeno(1,2,3-cd)pyrene	0.935	0.943	-	-0.9	20	141	0
Dibenzo(a,h)anthracene	0.999	0.919	-	8	20	124	0
Benzo(ghi)perylene	0.991	0.863	-	12.9	20	119	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Alpha Geoscience	**Lab Number**	: L2410579		
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116		
Instrument ID	: SV106	**Calibration Date**	: 03/05/24 00:34		
Lab File ID	: AP90304N	**Init. Calib. Date(s)**	: 09/02/23	09/03/23	
Sample No	: WG1891342-4	**Init. Calib. Times**	: 12:13	00:52	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS2_1,4-Dichlorobenzene-d4	1	1	-	0	20	102	0
Benzaldehyde	0.928	0.931	-	-0.3	20	73	0
Acetophenone	1.994	1.601	-	19.7	20	63	0
m-Toluidine	1.55	1.54	-	0.6	20	72	0
2-Chloroaniline	1.67	1.439	-	13.8	20	67	0
IS2_Naphthalene-d8	1	1	-	0	20	98	0
a-Terpineol	0.289	0.281	-	2.8	20	73	0
3-Chloroaniline	0.15	0.147	-	2	20	71	0
2,6-Dichlorophenol	0.277	0.267	-	3.6	20	69	0
1-chloro-2-nitrobenzene	0.131	0.137	-	-4.6	20	77	0
Caprolactam	0.147	0.162	-	-10.2	20	79	0
1,2,4,5-Tetrachlorobenzene	0.348	0.343	-	1.4	20	75	0
Biphenyl	0.856	0.809	-	5.5	20	71	0
IS2_Acenaphthene-d10	1	1	-	0	20	111	0
Dichloran	5	5.793	-	-15.9	20	104	0
Pentachloronitrobenzene	5	5.197	-	-3.9	20	88	0
IS2_Phenanthrene-d10	1	1	-	0	20	122	0
Diphenamid	0.508	0.417	-	17.9	20	73	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Alpha Geoscience	**Lab Number**	: L2410579		
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116		
Instrument ID	: SV106	**Calibration Date**	: 03/05/24 00:58		
Lab File ID	: ADP0304N	**Init. Calib. Date(s)**	: 09/02/23	09/03/23	
Sample No	: WG1891342-5	**Init. Calib. Times**	: 12:13	00:52	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS3_1,4-Dichlorobenzene-d4	1	1	-	0	20	99	0
n-Decane	1.347	1.408	-	-4.5	20	105	0
IS3_Acenaphthene-d10	1	1	-	0	20	107	0
Atrazine	0.345	0.326	-	5.5	20	102	0
IS3_Phenanthrene-d10	1	1	-	0	20	120	0
n-Octadecane	0.46	0.379	-	17.6	20	98	0
Parathion	0.094	0.083	-	11.7	20	117	0
3,3'-Dimethylbenzidine	5	4.078	-	18.4	20	105	0

*** Value outside of QC limits.**

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV106\240304nlvi\
Data File : ABN0304n.D
Acq On : 5 Mar 2024 12:10 am
Operator : SV106:ljg
Sample : WG1891342-3,32,,ABN LVI CCV Lot # 10360
Misc : WG1891342,,ical20337
ALS Vial : 142 Sample Multiplier: 1

Quant Time: Mar 05 11:18:53 2024
Quant Method : I:\8270\SV106\240304nlvi\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Mar 05 11:18:35 2024
Response via : Initial Calibration

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

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	IS1_1,4-Dichlorobenzene-d4		1.000	1.000	0.0	103	0.00
2	t	n-Nitrosodimethylamine		0.677	0.721	-6.5	119	0.00
3	t	Pyridine		1.151	1.068	7.2	103	0.00
4	S	2-Fluorophenol		1.116	1.094	2.0	113	0.00
5	T	Aniline		1.893	1.573	16.9	94	0.00
6	t	2-Chlorophenol		1.274	1.209	5.1	105	0.00
7	S	Phenol-d6		1.437	1.427	0.7	110	0.00
8	T	Phenol		1.521	1.456	4.3	109	0.00
9	T	Bis(2-chloroethyl)ether		1.222	1.164	4.7	107	0.00
10	T	1,3-Dichlorobenzene		1.461	1.381	5.5	106	0.00
11	T	1,4-Dichlorobenzene		1.503	1.391	7.5	106	0.00
12	T	1,2-Dichlorobenzene		1.431	1.353	5.5	108	0.00
13	t	Benzyl alcohol		1.074	1.038	3.4	108	0.00
14	T	Bis(2-chloroisopropyl)ether		1.800	1.822	-1.2	114	0.00
15	T	2-Methylphenol		1.138	1.029	9.6	104	0.00
16	T	Hexachloroethane		0.586	0.551	6.0	106	0.00
17	T	n-Nitrosodi-n-propylamine		0.923	0.844	8.6	104	0.00
18	T	3-Methylphenol/4-Methylphen		1.193	1.093	8.4	103	0.00
19	S	Nitrobenzene-d5		1.303	1.370	-5.1	121	0.00
20	T	Nitrobenzene		1.295	1.316	-1.6	114	0.00
21	T	Isophorone		2.478	2.297	7.3	106	0.00
22	T	2-Nitrophenol		0.518	0.641	-23.7#	141	0.00
23	T	2,4-Dimethylphenol		1.281	0.762	40.5#	65	0.00
24	T	Bis(2-chloroethoxy)methane		1.552	1.492	3.9	108	0.00
25	T	2,4-Dichlorophenol		1.076	1.100	-2.2	111	0.00
26	T	1,2,4-Trichlorobenzene		1.235	1.260	-2.0	117	0.00
34	I	IS1_Naphthalene-d8		1.000	1.000	0.0	102	0.00
35	T	Naphthalene		1.008	0.915	9.2	105	0.00
36	T	Benzoic Acid	*	5.000	5.400	-8.0	132	0.00
37	T	4-Chloroaniline		0.132	0.126	4.5	108	0.00
38	T	Hexachlorobutadiene		0.206	0.199	3.4	113	0.00
39	T	p-Chloro-m-cresol		0.291	0.280	3.8	107	0.00
40	T	2-Methylnaphthalene		0.642	0.627	2.3	112	0.00
41	T	1-Methylnaphthalene		0.241	0.222	7.9	104	0.00
42	T	Hexachlorocyclopentadiene		0.219	0.181	17.4	95	0.00
43	T	2,4,6-Trichlorophenol		0.209	0.224	-7.2	125	0.00
44	T	2,4,5-Trichlorophenol		0.224	0.241	-7.6	126	0.00
45	S	2-Fluorobiphenyl		0.764	0.759	0.7	115	0.00

Data Path : I:\8270\SV106\240304nlvi\
Data File : ABN0304n.D
Acq On : 5 Mar 2024 12:10 am
Operator : SV106:ljg
Sample : WG1891342-3,32,,ABN LVI CCV Lot # 10360
Misc : WG1891342,,ical20337
ALS Vial : 142 Sample Multiplier: 1

Quant Time: Mar 05 11:18:53 2024
Quant Method : I:\8270\SV106\240304nlvi\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Mar 05 11:18:35 2024
Response via : Initial Calibration

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

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(min)
46	T	2-Chloronaphthalene		0.669	0.628	6.1	107	0.00
47	T	2-Nitroaniline	*	5.000	5.094	-1.9	124	0.00
48	T	1,4-Dinitrobenzene	*	5.000	6.371	-27.4#	172	0.00
49	T	1,3-Dinitrobenzene	*	5.000	6.103	-22.1#	153	0.00
50	T	Dimethyl phthalate		0.787	0.770	2.2	111	0.00
51	T	Acenaphthylene		1.077	0.988	8.3	106	0.00
52	T	2,6-Dinitrotoluene	*	5.000	5.461	-9.2	135	0.00
53	T	1,2-Dinitrobenzene		0.063	0.073	-15.9	133	0.00
62	I	IS1_Acenaphthene-d10		1.000	1.000	0.0	115	0.00
63	T	3-Nitroaniline		0.286	0.280	2.1	124	0.00
64	T	Acenaphthene		1.131	0.933	17.5	108	0.00
65	T	2,4-Dinitrophenol	*	5.000	6.503	-30.1#	185	0.00
66	T	Dibenzofuran		1.690	1.493	11.7	114	0.00
67	T	2,4-Dinitrotoluene	*	5.000	5.436	-8.7	151	0.00
68	T	4-Nitrophenol	*	5.000	4.917	1.7	136	0.00
69	T	2,3,5,6-Tetrachlorophenol		0.325	0.346	-6.5	134	0.00
70	T	2,3,4,6-Tetrachlorophenol		0.337	0.329	2.4	124	0.00
71	T	Diethyl phthalate		1.415	1.233	12.9	109	0.00
72	T	Fluorene		1.336	1.216	9.0	116	0.00
73	T	4-Chlorophenyl phenyl ether		0.637	0.602	5.5	123	0.00
74	T	4-Nitroaniline		0.289	0.279	3.5	116	0.00
75	T	4,6-Dinitro-o-cresol	*	5.000	6.940	-38.8#	219	0.00
76	T	NDPA/DPA		1.124	1.019	9.3	114	0.00
77	T	Azobenzene		1.319	1.098	16.8	106	0.00
78	S	2,4,6-Tribromophenol		0.184	0.181	1.6	123	0.00
79	T	4-Bromophenyl phenyl ether		0.371	0.345	7.0	120	0.00
80	T	Hexachlorobenzene		0.432	0.385	10.9	118	0.00
81	T	Pentachlorophenol	*	5.000	5.004	-0.1	138	0.00
87	I	IS1_Phenanthrene-d10		1.000	1.000	0.0	126	0.00
88	T	Phenanthrene		1.089	0.888	18.5	115	0.00
89	T	Anthracene		1.084	0.907	16.3	117	0.00
90	T	Carbazole		0.991	0.843	14.9	117	0.00
91	T	Di-n-butylphthalate		1.269	1.014	20.1	110	0.00
92	T	Fluoranthene		1.165	1.061	8.9	129	0.00
93	T	Benzidine		0.770	0.575	25.3#	103	0.00
94	T	Pyrene		1.233	1.095	11.2	126	0.00
95	S	4-Terphenyl-d14		0.877	0.781	10.9	124	0.00

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV106\240304nlvi\
Data File : ABN0304n.D
Acq On : 5 Mar 2024 12:10 am
Operator : SV106:ljg
Sample : WG1891342-3,32,,ABN LVI CCV Lot # 10360
Misc : WG1891342,,ical20337
ALS Vial : 142 Sample Multiplier: 1

Quant Time: Mar 05 11:18:53 2024
Quant Method : I:\8270\SV106\240304nlvi\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Mar 05 11:18:35 2024
Response via : Initial Calibration

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

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
96	T	Butyl benzyl phthalate	0.541	0.434	19.8	111	0.00
103	I	IS1_Chrysene-d12	1.000	1.000	0.0	126	0.00
104	T	Benzo(a)anthracene	1.326	1.154	13.0	122	0.00
105	T	3,3'-Dichlorobenzidine	0.472	0.410	13.1	118	0.00
106	T	Chrysene	1.231	1.106	10.2	127	0.00
107	T	Bis(2-ethylhexyl)phthalate	0.889	0.718	19.2	109	0.00
108	T	Di-n-octylphthalate	1.499	1.216	18.9	109	0.00
109	T	Benzo(b)fluoranthene	1.266	1.145	9.6	128	0.00
110	T	Benzo(k)fluoranthene	1.214	1.016	16.3	110	0.00
111	T	Benzo(a)pyrene	1.083	1.033	4.6	131	0.00
112	I	IS1_Perylene-d12	1.000	1.000	0.0	124	0.00
113	T	Indeno(1,2,3-cd)pyrene	0.935	0.943	-0.9	141	0.00
114	T	Dibenzo(a,h)anthracene	0.999	0.919	8.0	124	0.00
115	T	Benzo(ghi)perylene	0.991	0.863	12.9	119	0.00

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240304nlvi\
Data File : ABN0304n.D
Acq On : 5 Mar 2024 12:10 am
Operator : SV106:ljg
Sample : WG1891342-3,32,,ABN LVI CCV Lot # 10360
Misc : WG1891342,,ical20337
ALS Vial : 142 Sample Multiplier: 1

Quant Time: Mar 05 11:18:53 2024
Quant Method : I:\8270\SV106\240304nlvi\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Mar 05 11:18:35 2024
Response via : Initial Calibration

Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) IS1_1,4-Dichlorobenzen...	6.331	152	44264	4.000	ug/ml		0.00
34) IS1_Naphthalene-d8	7.766	136	170941	4.000	ug/ml	#	0.00
62) IS1_Acenaphthene-d10	9.524	164	107442	4.000	ug/ml		0.00
87) IS1_Phenanthrene-d10	10.960	188	227092	4.000	ug/ml		0.00
103) IS1_Chrysene-d12	13.577	240	207444	4.000	ug/ml		0.00
112) IS1_Perylene-d12	15.036	264	227846	4.000	ug/ml		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	4.348	112	60538	4.904	ug/ml		0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 98.08%				
7) Phenol-d6	5.966	99	78967	4.966	ug/ml		0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 99.32%				
19) Nitrobenzene-d5	6.995	82	75811	5.258	ug/ml		0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 210.32%#				
45) 2-Fluorobiphenyl	8.889	172	162164	4.970	ug/ml		0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 198.80%#				
78) 2,4,6-Tribromophenol	10.295	330	24298	4.929	ug/ml		0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 98.58%				
95) 4-Terphenyl-d14	12.536	244	221792	4.453	ug/ml		0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 178.12%#				
Target Compounds							Qvalue
2) n-Nitrosodimethylamine	1.984	74	39876	5.320	ug/ml	#	70
3) Pyridine	2.025	79	59116	4.643	ug/ml	#	74
5) Aniline	5.919	93	87051	4.155	ug/ml		98
6) 2-Chlorophenol	6.066	128	66900	4.745	ug/ml		97
8) Phenol	5.984	94	80562	4.786	ug/ml		96
9) Bis(2-chloroethyl)ether	6.054	93	64418	4.765	ug/ml	#	79
10) 1,3-Dichlorobenzene	6.254	146	76417	4.727	ug/ml		99
11) 1,4-Dichlorobenzene	6.348	146	76946	4.626	ug/ml		99
12) 1,2-Dichlorobenzene	6.531	146	74840	4.726	ug/ml		99
13) Benzyl alcohol	6.548	79	57424	4.834	ug/ml		94
14) Bis(2-chloroisopropyl)...	6.725	45	100790	5.061	ug/ml	#	57
15) 2-Methylphenol	6.719	108	56933	4.522	ug/ml		98
16) Hexachloroethane	6.919	117	30488	4.702	ug/ml	#	65
17) n-Nitrosodi-n-propylamine	6.872	70	46703	4.571	ug/ml	#	92
18) 3-Methylphenol/4-Methy...	6.913	108	60485	4.580	ug/ml		99
20) Nitrobenzene	7.013	77	72798	5.081	ug/ml		94
21) Isophorone	7.295	82	127119	4.636	ug/ml		95
22) 2-Nitrophenol	7.372	139	35439	6.185	ug/ml	#	95

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240304nlvi\
Data File : ABN0304n.D
Acq On : 5 Mar 2024 12:10 am
Operator : SV106:ljg
Sample : WG1891342-3,32,,ABN LVI CCV Lot # 10360
Misc : WG1891342,,ical20337
ALS Vial : 142 Sample Multiplier: 1

Quant Time: Mar 05 11:18:53 2024
Quant Method : I:\8270\SV106\240304nlvi\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Mar 05 11:18:35 2024
Response via : Initial Calibration

Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) 2,4-Dimethylphenol	7.483	107	42174	2.975	ug/ml	95
24) Bis(2-chloroethoxy)met...	7.572	93	82569	4.806	ug/ml	99
25) 2,4-Dichlorophenol	7.642	162	60840	5.111	ug/ml	97
26) 1,2,4-Trichlorobenzene	7.719	180	69742	5.103	ug/ml	98
35) Naphthalene	7.783	128	195574	4.538	ug/ml	100
36) Benzoic Acid	7.572	105	44534	5.400	ug/ml	99
37) 4-Chloroaniline	7.872	65	26877	4.763	ug/ml	97
38) Hexachlorobutadiene	7.954	225	42607	4.848	ug/ml	99
39) p-Chloro-m-cresol	8.401	107	59826	4.803	ug/ml	99
40) 2-Methylnaphthalene	8.501	142	133987	4.884	ug/ml	96
41) 1-Methylnaphthalene	8.595	115	47422	4.609	ug/ml	87
42) Hexachlorocyclopentadiene	8.683	237	38718	4.132	ug/ml	99
43) 2,4,6-Trichlorophenol	8.801	196	47783	5.361	ug/ml	94
44) 2,4,5-Trichlorophenol	8.830	196	51510	5.373	ug/ml	98
46) 2-Chloronaphthalene	8.977	162	134158	4.692	ug/ml	96
47) 2-Nitroaniline	9.095	138	40380	5.094	ug/ml	95
48) 1,4-Dinitrobenzene	9.230	168	21995	6.371	ug/ml	77
49) 1,3-Dinitrobenzene	9.307	168	24361	6.103	ug/ml#	1
50) Dimethyl phthalate	9.307	163	164553	4.890	ug/ml#	98
51) Acenaphthylene	9.383	152	211183	4.589	ug/ml	99
52) 2,6-Dinitrotoluene	9.342	165	35524	5.461	ug/ml#	86
53) 1,2-Dinitrobenzene	9.383	168	15631M3	5.773	ug/ml	
63) 3-Nitroaniline	9.501	138	37604	4.893	ug/ml	94
64) Acenaphthene	9.554	154	125343	4.128	ug/ml	94
65) 2,4-Dinitrophenol	9.601	184	23405	6.503	ug/ml	96
66) Dibenzofuran	9.724	168	200504	4.416	ug/ml	96
67) 2,4-Dinitrotoluene	9.730	165	53330	5.436	ug/ml	92
68) 4-Nitrophenol	9.695	65	35794	4.917	ug/ml#	88
69) 2,3,5,6-Tetrachlorophenol	9.819	232	46487	5.326	ug/ml	98
70) 2,3,4,6-Tetrachlorophenol	9.860	232	44131	4.872	ug/ml	96
71) Diethyl phthalate	9.995	149	165658	4.359	ug/ml	98
72) Fluorene	10.060	166	163260	4.551	ug/ml	96
73) 4-Chlorophenyl phenyl ...	10.083	204	80875	4.725	ug/ml	90
74) 4-Nitroaniline	10.089	138	37514	4.836	ug/ml#	89
75) 4,6-Dinitro-o-cresol	10.124	198	33344	6.940	ug/ml#	64
76) NDPA/DPA	10.195	169	136851	4.534	ug/ml	98
77) Azobenzene	10.230	77	147440	4.161	ug/ml	92
79) 4-Bromophenyl phenyl e...	10.548	248	46363	4.654	ug/ml#	88
80) Hexachlorobenzene	10.595	284	51682	4.457	ug/ml#	84
81) Pentachlorophenol	10.789	266	34407	5.004	ug/ml	99
88) Phenanthrene	10.977	178	252194	4.078	ug/ml	100

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240304nlvi\
Data File : ABN0304n.D
Acq On : 5 Mar 2024 12:10 am
Operator : SV106:ljg
Sample : WG1891342-3,32,,ABN LVI CCV Lot # 10360
Misc : WG1891342,,ical20337
ALS Vial : 142 Sample Multiplier: 1

Quant Time: Mar 05 11:18:53 2024
Quant Method : I:\8270\SV106\240304nlvi\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Mar 05 11:18:35 2024
Response via : Initial Calibration

Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
89)	Anthracene	11.030	178	257430	4.182	ug/ml	99
90)	Carbazole	11.201	167	239253	4.254	ug/ml	100
91)	Di-n-butylphthalate	11.595	149	287881	3.997	ug/ml	99
92)	Fluoranthene	12.130	202	301313	4.557	ug/ml#	91
93)	Benzidine	12.289	184	163145	3.734	ug/ml#	95
94)	Pyrene	12.342	202	310715	4.439	ug/ml	99
96)	Butyl benzyl phthalate	13.065	149	123229	4.009	ug/ml	95
104)	Benzo(a)anthracene	13.571	228	299357	4.355	ug/ml	100
105)	3,3'-Dichlorobenzidine	13.571	252	106253	4.343	ug/ml#	97
106)	Chrysene	13.607	228	286915	4.496	ug/ml	99
107)	Bis(2-ethylhexyl)phtha...	13.701	149	186273	4.042	ug/ml	93
108)	Di-n-octylphthalate	14.377	149	315339	4.056	ug/ml#	74
109)	Benzo(b)fluoranthene	14.665	252	296909	4.521	ug/ml#	93
110)	Benzo(k)fluoranthene	14.695	252	263453	4.185	ug/ml#	93
111)	Benzo(a)pyrene	14.977	252	267968	4.769	ug/ml#	92
113)	Indeno(1,2,3-cd)pyrene	15.995	276	268443M6	5.043	ug/mL	
114)	Dibenzo(a,h)anthracene	16.018	278	261632	4.596	ug/ml#	88
115)	Benzo(ghi)perylene	16.230	276	245706	4.351	ug/ml#	85

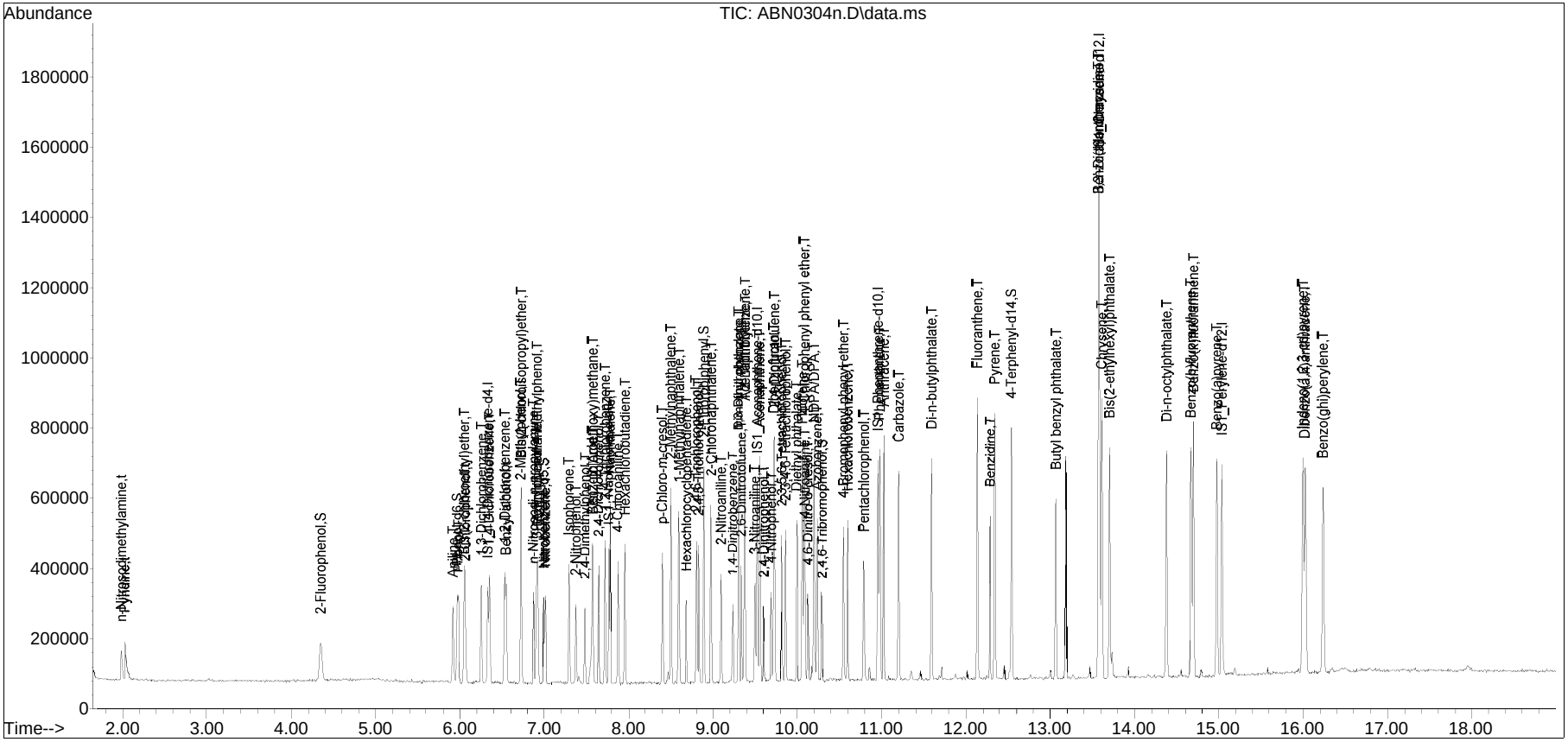
(#) = qualifier out of range (m) = manual integration (+) = signals summed

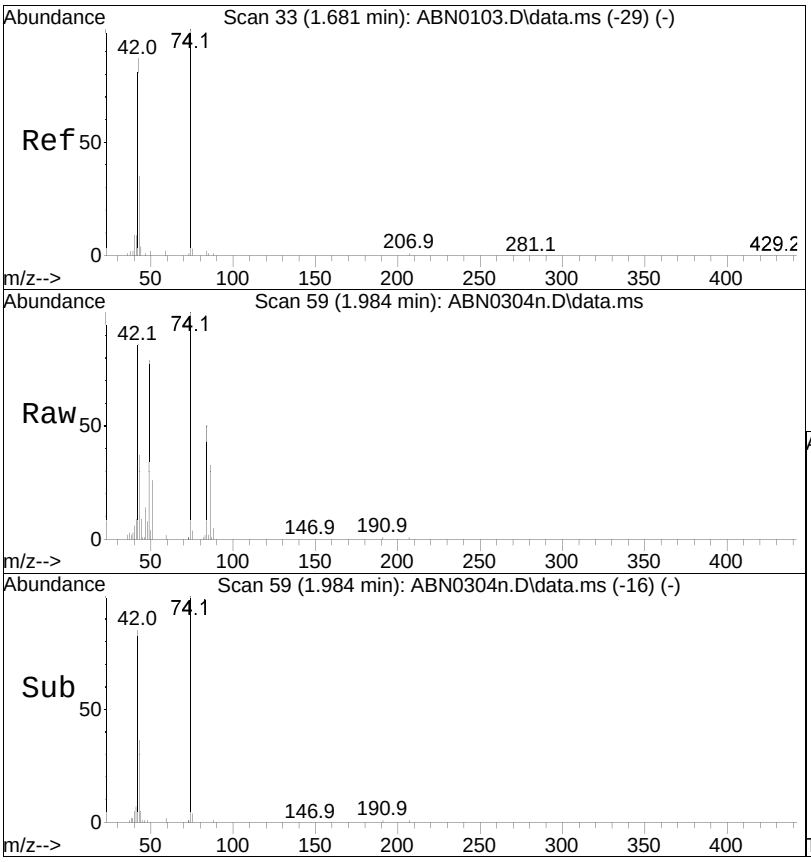
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240304nlvi\
Data File : ABN0304n.D
Acq On : 5 Mar 2024 12:10 am
Operator : SV106:ljg
Sample : WG1891342-3,32,,ABN LVI CCV Lot # 10360
Misc : WG1891342,,ical20337
ALS Vial : 142 Sample Multiplier: 1

Quant Time: Mar 05 11:18:53 2024
Quant Method : I:\8270\SV106\240304nlvi\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Mar 05 11:18:35 2024
Response via : Initial Calibration

Sub List : ABNical - ABN ical sublist

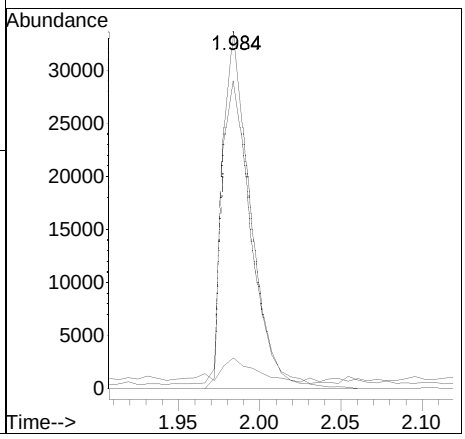


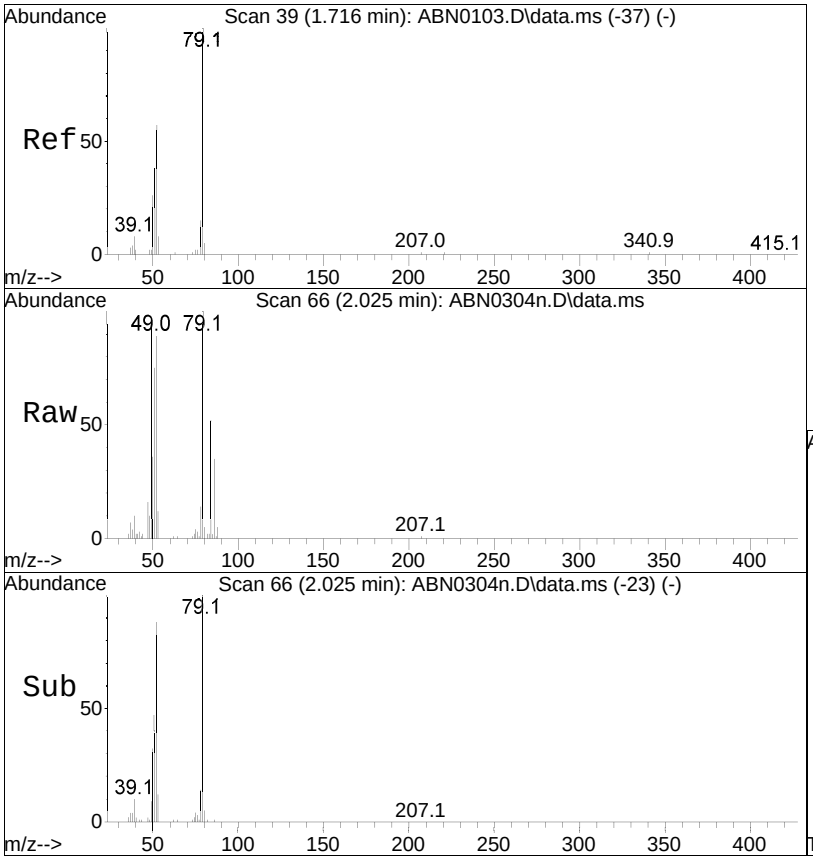


#2
n-Nitrosodimethylamine
Concen: 5.32 ug/ml
RT: 1.984 min Scan# 59
Delta R.T. 0.000 min
Lab File: ABN0304n.D
Acq: 5 Mar 2024 12:10 am

Tgt Ion: 74 Resp: 39876

Ion	Ratio	Lower	Upper
74	100		
42	88.6	100.0	150.0#
44	9.2	6.7	10.1

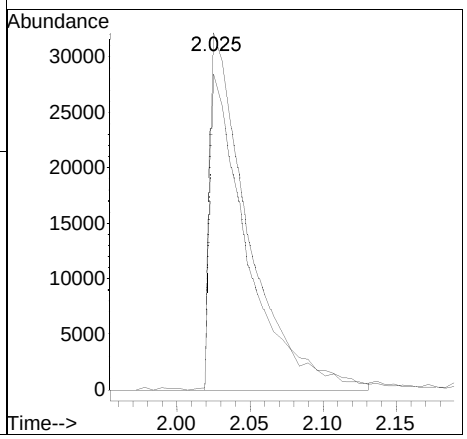


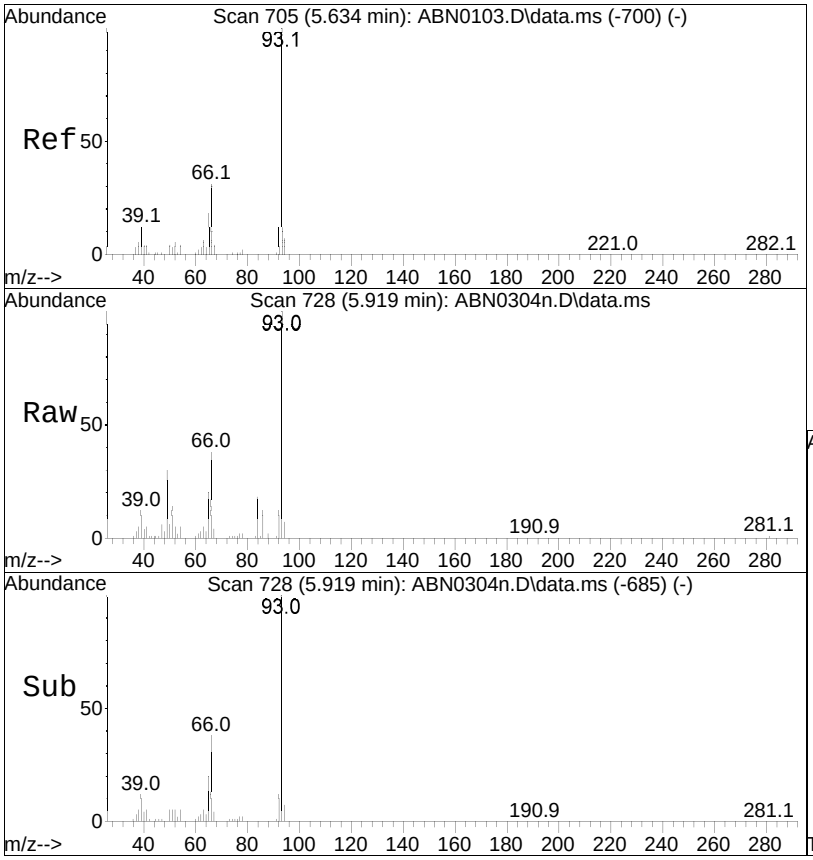


#3
Pyridine
Concen: 4.64 ug/ml
RT: 2.025 min Scan# 66
Delta R.T. 0.000 min
Lab File: ABN0304n.D
Acq: 5 Mar 2024 12:10 am

Tgt Ion: 79 Resp: 59116

Ion	Ratio	Lower	Upper
79	100		
52	87.8	93.1	139.7#

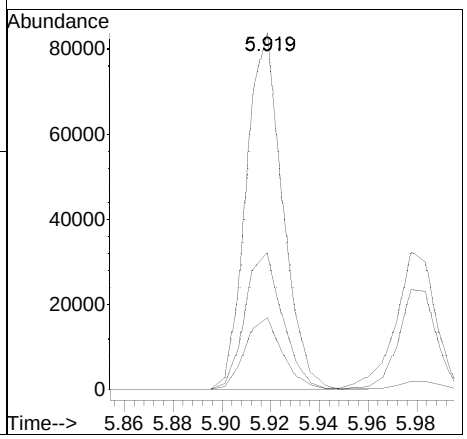


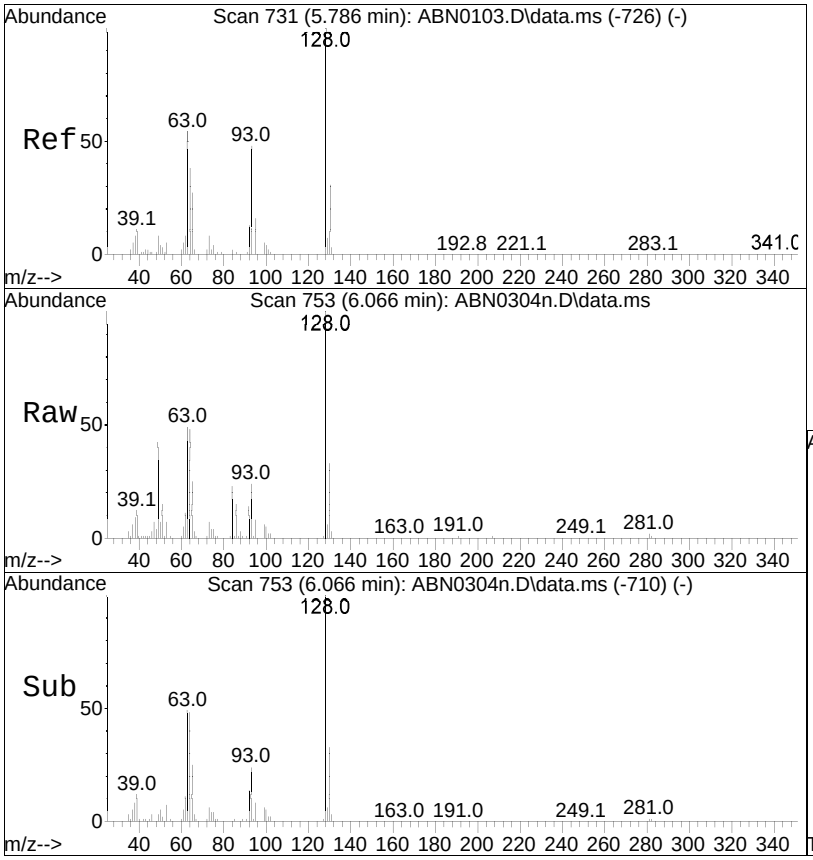


#5
Aniline
Concen: 4.16 ug/ml
RT: 5.919 min Scan# 728
Delta R.T. 0.000 min
Lab File: ABN0304n.D
Acq: 5 Mar 2024 12:10 am

Tgt Ion: 93 Resp: 87051

Ion	Ratio	Lower	Upper
93	100		
66	39.7	32.6	49.0
65	20.8	17.6	26.4

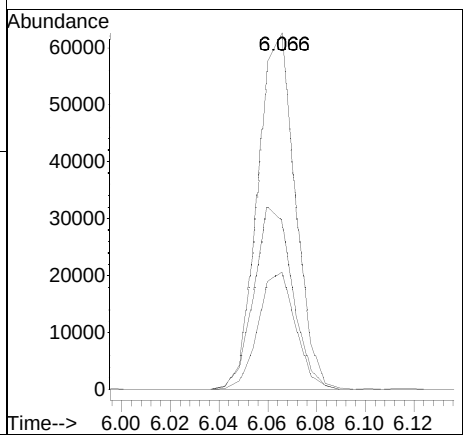


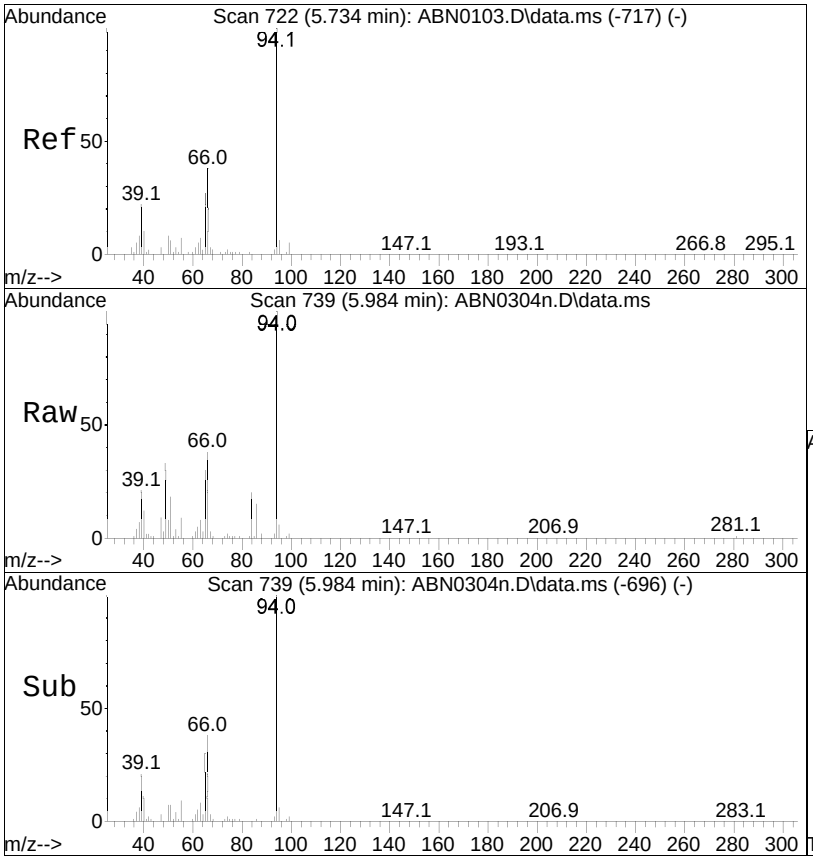


#6
2-Chlorophenol
Concen: 4.74 ug/ml
RT: 6.066 min Scan# 753
Delta R.T. 0.000 min
Lab File: ABN0304n.D
Acq: 5 Mar 2024 12:10 am

Tgt Ion:128 Resp: 66900

Ion	Ratio	Lower	Upper
128	100		
64	52.6	45.1	67.7
130	32.9	26.2	39.4

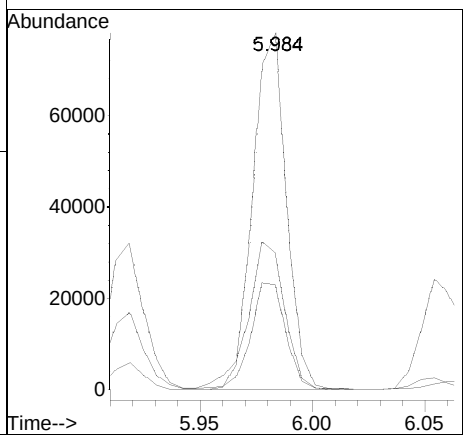


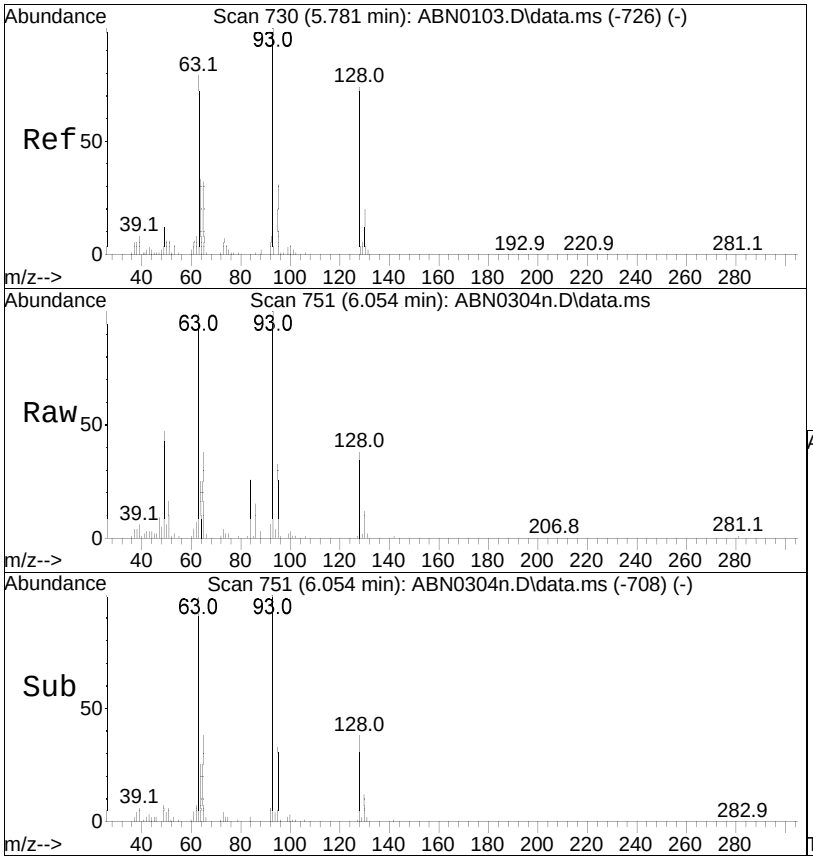


#8
Phenol
Concen: 4.79 ug/ml
RT: 5.984 min Scan# 739
Delta R.T. 0.000 min
Lab File: ABN0304n.D
Acq: 5 Mar 2024 12:10 am

Tgt Ion: 94 Resp: 80562

Ion	Ratio	Lower	Upper
94	100		
65	31.6	26.0	39.0
66	45.8	33.8	50.8

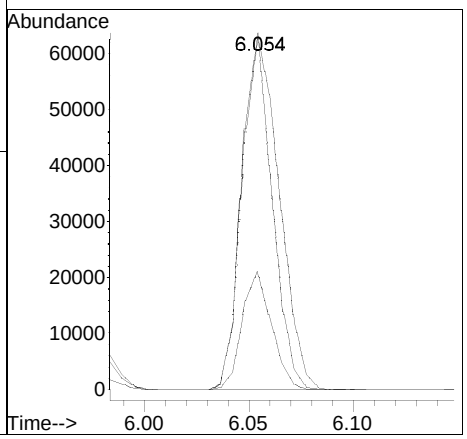


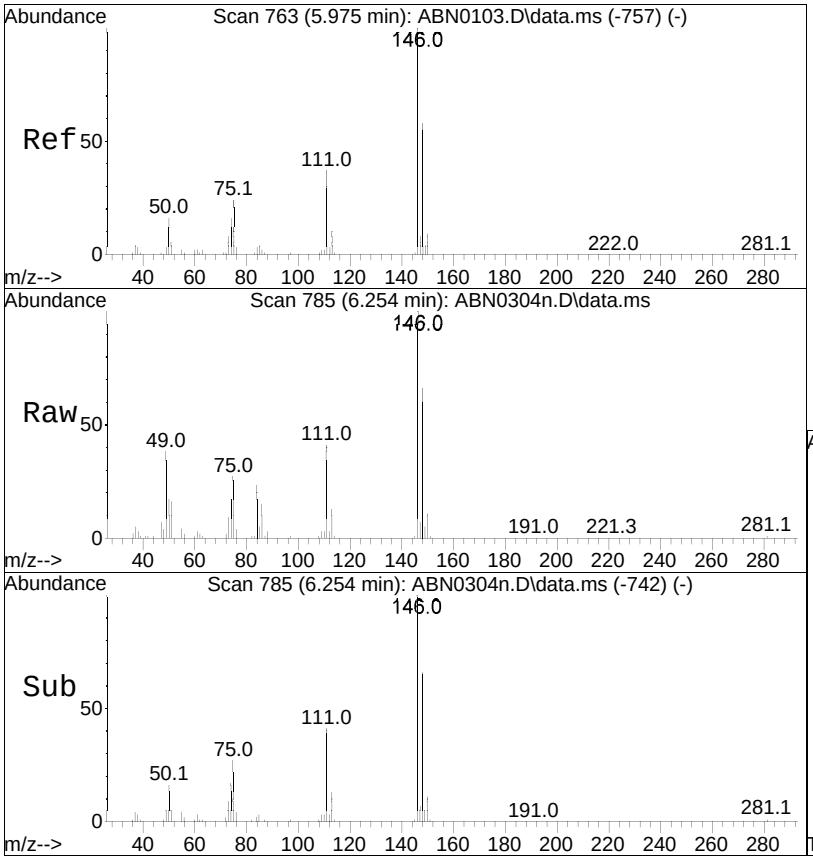


#9
Bis(2-chloroethyl)ether
Concen: 4.76 ug/ml
RT: 6.054 min Scan# 751
Delta R.T. 0.000 min
Lab File: ABN0304n.D
Acq: 5 Mar 2024 12:10 am

Tgt Ion: 93 Resp: 64418

Ion	Ratio	Lower	Upper
93	100		
63	120.0	74.6	111.8#
95	32.2	25.9	38.9

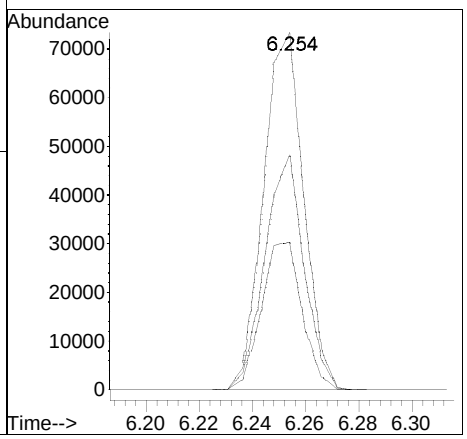


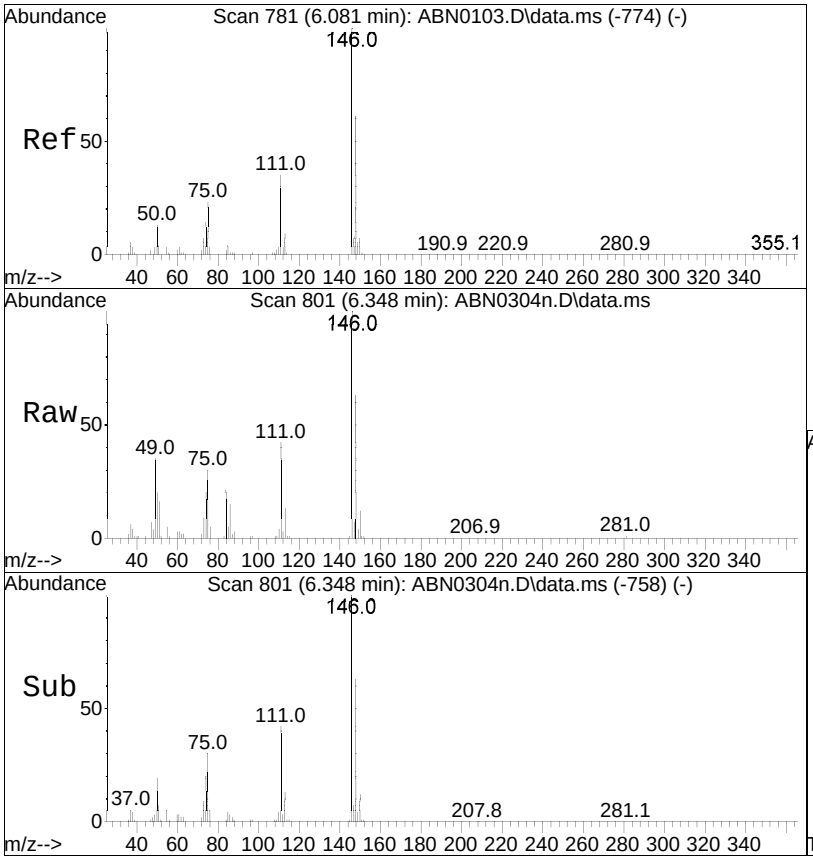


#10
1,3-Dichlorobenzene
Concen: 4.73 ug/ml
RT: 6.254 min Scan# 785
Delta R.T. 0.000 min
Lab File: ABN0304n.D
Acq: 5 Mar 2024 12:10 am

Tgt Ion:146 Resp: 76417

Ion	Ratio	Lower	Upper
146	100		
111	42.0	34.3	51.5
148	64.4	50.8	76.2

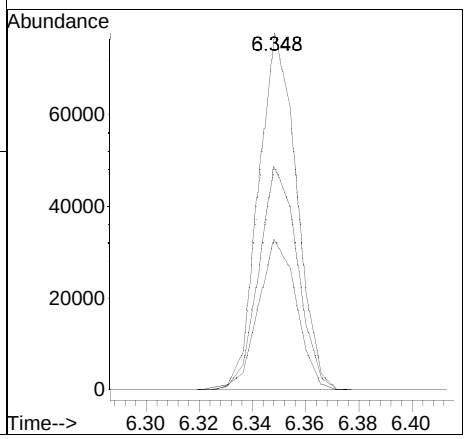


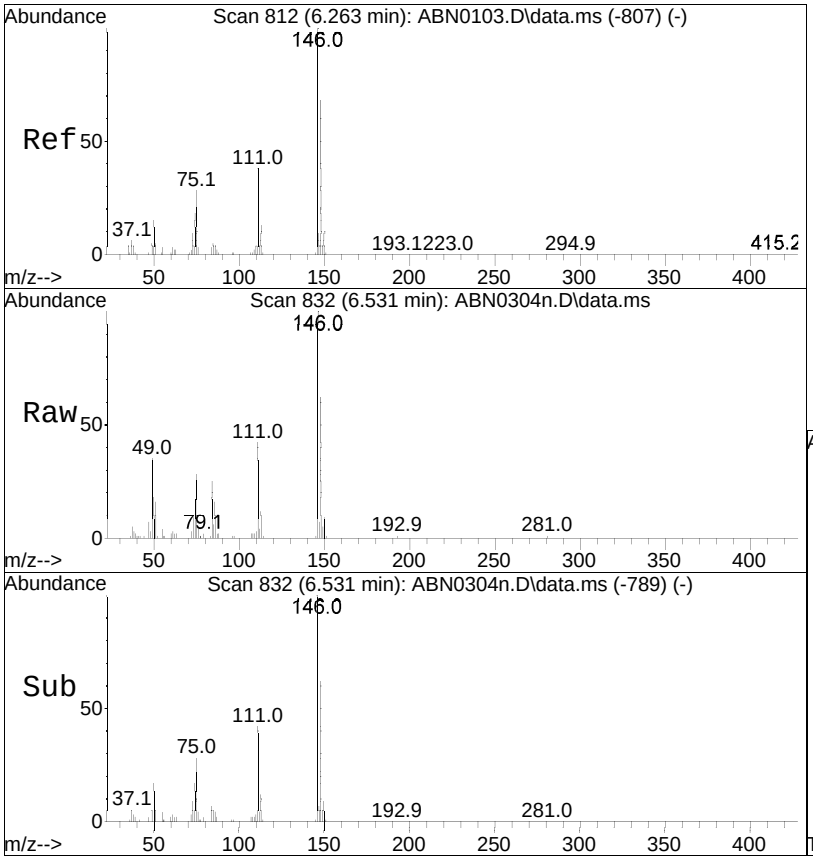


#11
1,4-Dichlorobenzene
Concen: 4.63 ug/ml
RT: 6.348 min Scan# 801
Delta R.T. 0.000 min
Lab File: ABN0304n.D
Acq: 5 Mar 2024 12:10 am

Tgt Ion:146 Resp: 76946

Ion	Ratio	Lower	Upper
146	100		
148	63.6	50.7	76.1
111	42.9	33.4	50.0

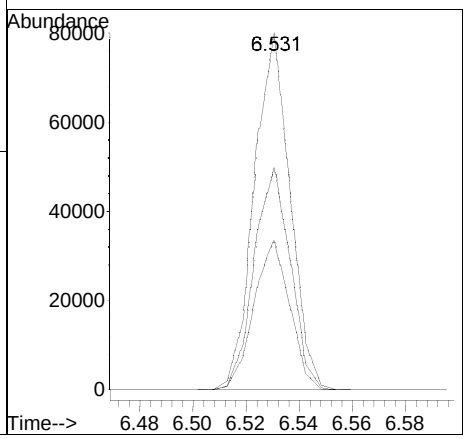


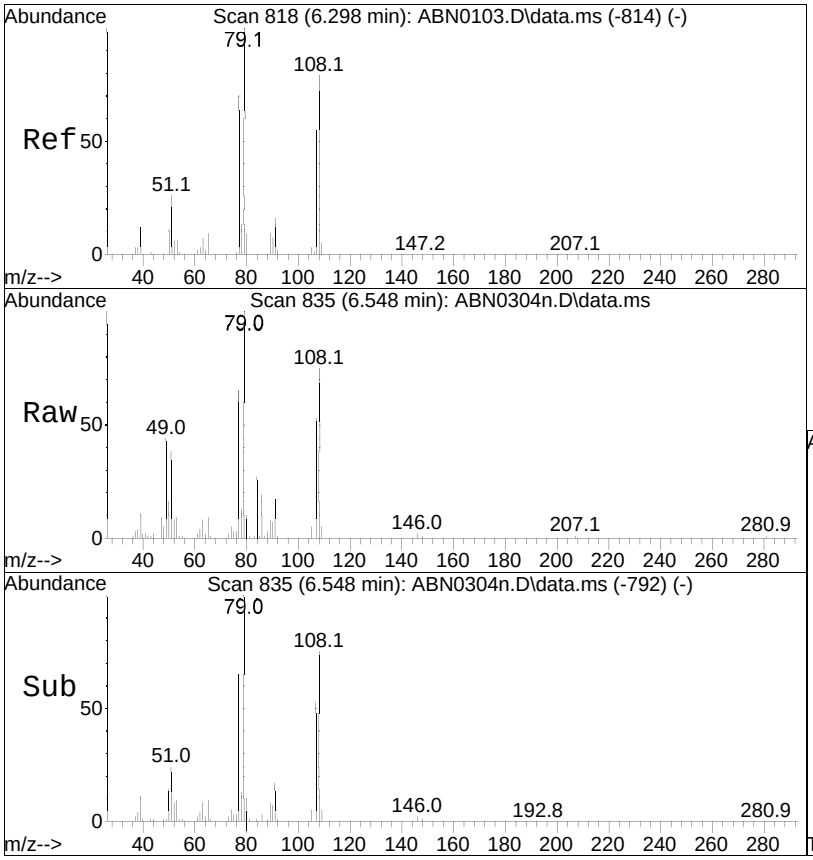


#12
1,2-Dichlorobenzene
Concen: 4.73 ug/ml
RT: 6.531 min Scan# 832
Delta R.T. 0.000 min
Lab File: ABN0304n.D
Acq: 5 Mar 2024 12:10 am

Tgt Ion:146 Resp: 74840

Ion	Ratio	Lower	Upper
146	100		
111	42.2	34.6	52.0
148	63.1	50.2	75.4

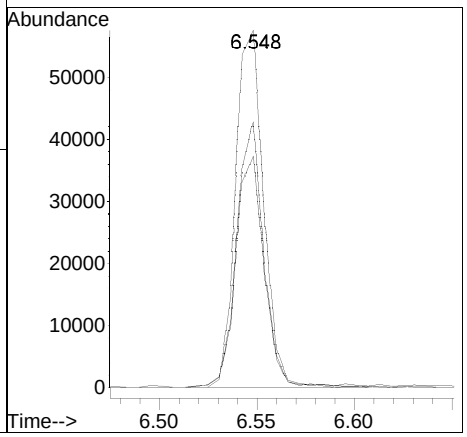


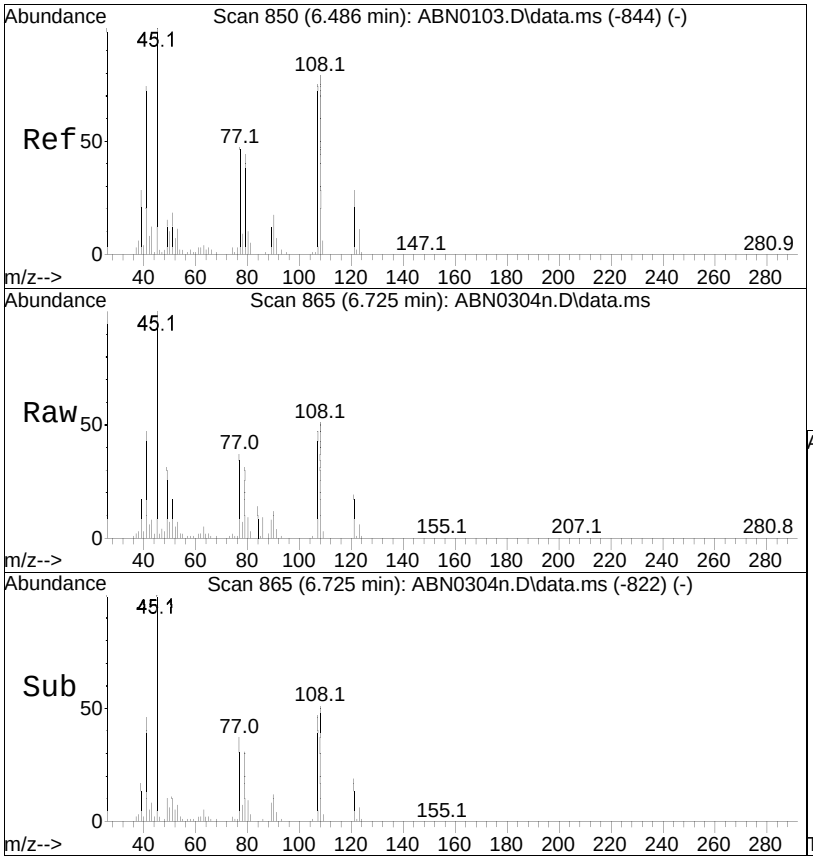


#13
Benzyl alcohol
Concen: 4.83 ug/ml
RT: 6.548 min Scan# 835
Delta R.T. 0.000 min
Lab File: ABN0304n.D
Acq: 5 Mar 2024 12:10 am

Tgt Ion: 79 Resp: 57424

Ion	Ratio	Lower	Upper
79	100		
77	65.7	54.9	82.3
108	71.5	63.1	94.7

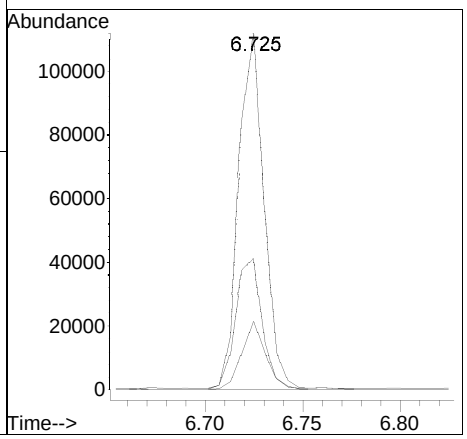


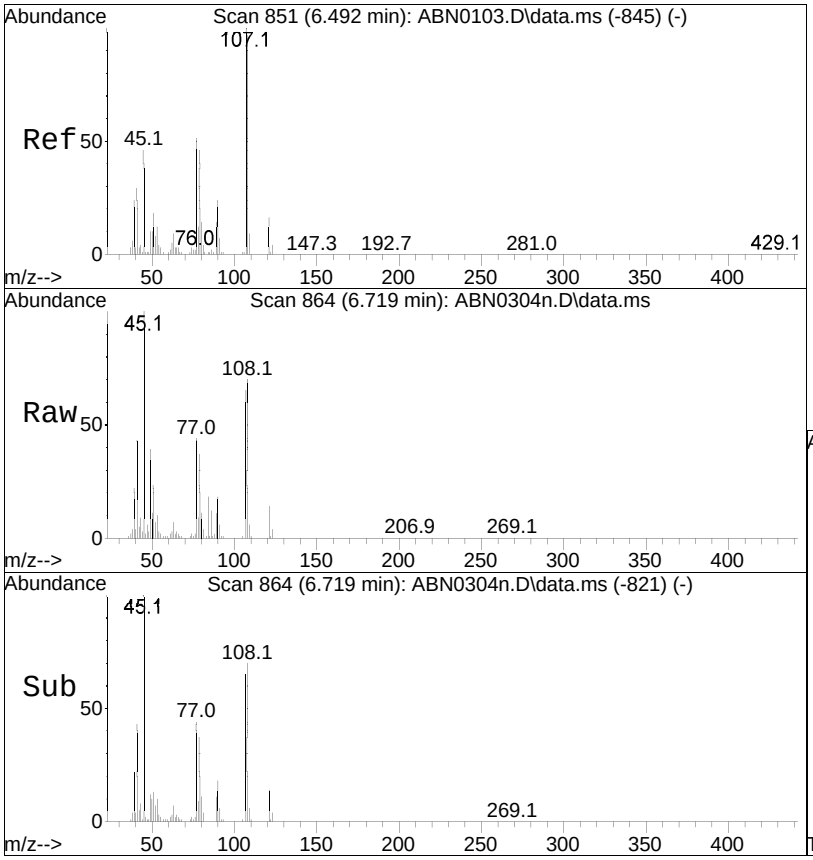


#14
Bis(2-chloroisopropyl)ether
Concen: 5.06 ug/ml
RT: 6.725 min Scan# 865
Delta R.T. 0.000 min
Lab File: ABN0304n.D
Acq: 5 Mar 2024 12:10 am

Tgt Ion: 45 Resp: 100790

Ion	Ratio	Lower	Upper
45	100		
121	18.2	9.8	14.6#
77	38.1	6.1	9.1#

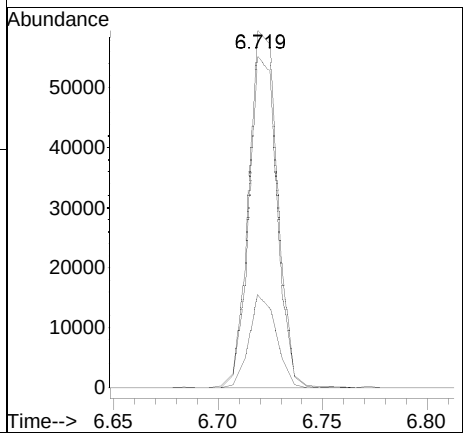


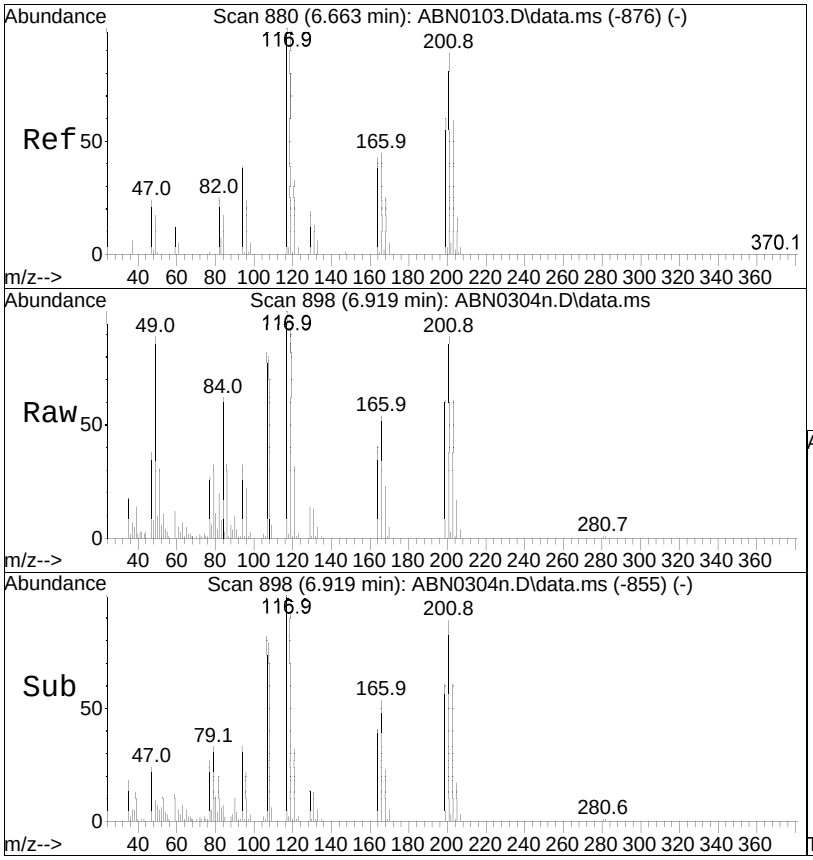


#15
2-Methylphenol
Concen: 4.52 ug/ml
RT: 6.719 min Scan# 864
Delta R.T. 0.000 min
Lab File: ABN0304n.D
Acq: 5 Mar 2024 12:10 am

Tgt Ion:108 Resp: 56933

Ion	Ratio	Lower	Upper
108	100		
107	90.5	70.7	106.1
90	24.6	18.7	28.1

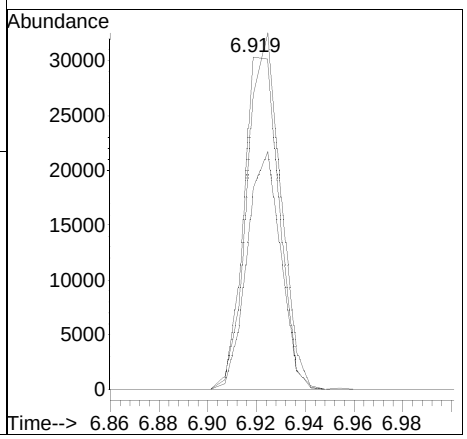


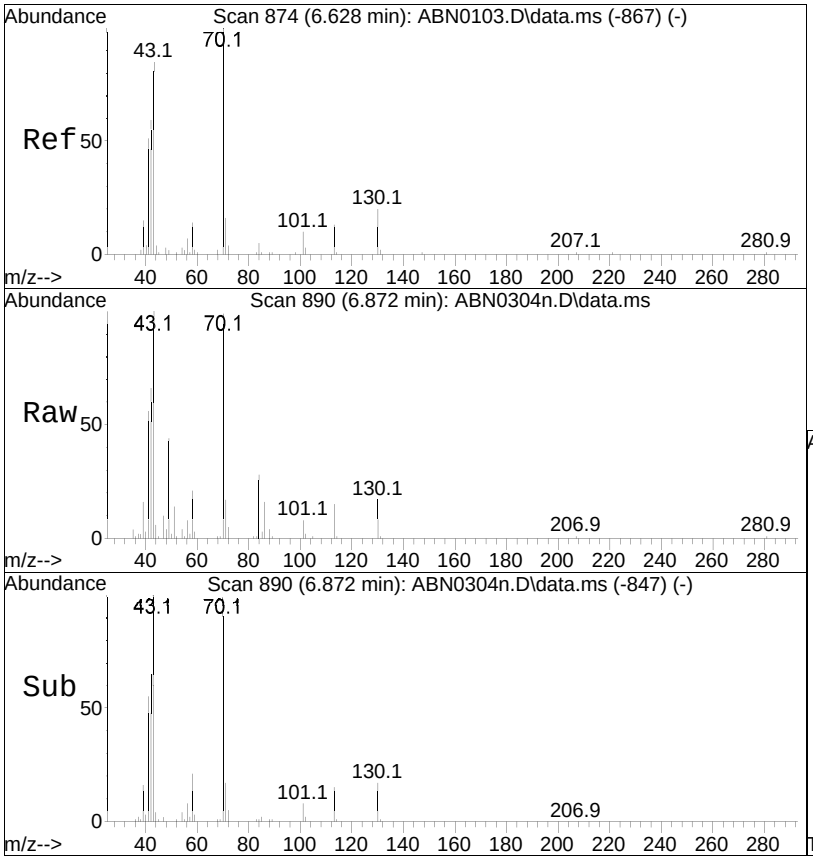


#16
Hexachloroethane
Concen: 4.70 ug/ml
RT: 6.919 min Scan# 898
Delta R.T. 0.000 min
Lab File: ABN0304n.D
Acq: 5 Mar 2024 12:10 am

Tgt Ion:117 Resp: 30488

Ion	Ratio	Lower	Upper
117	100		
201	102.2	58.6	87.8#
199	69.0	36.9	55.3#

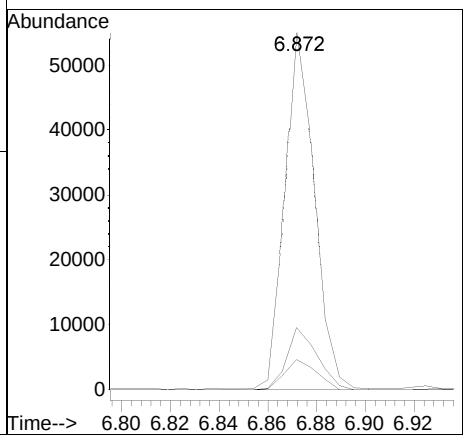


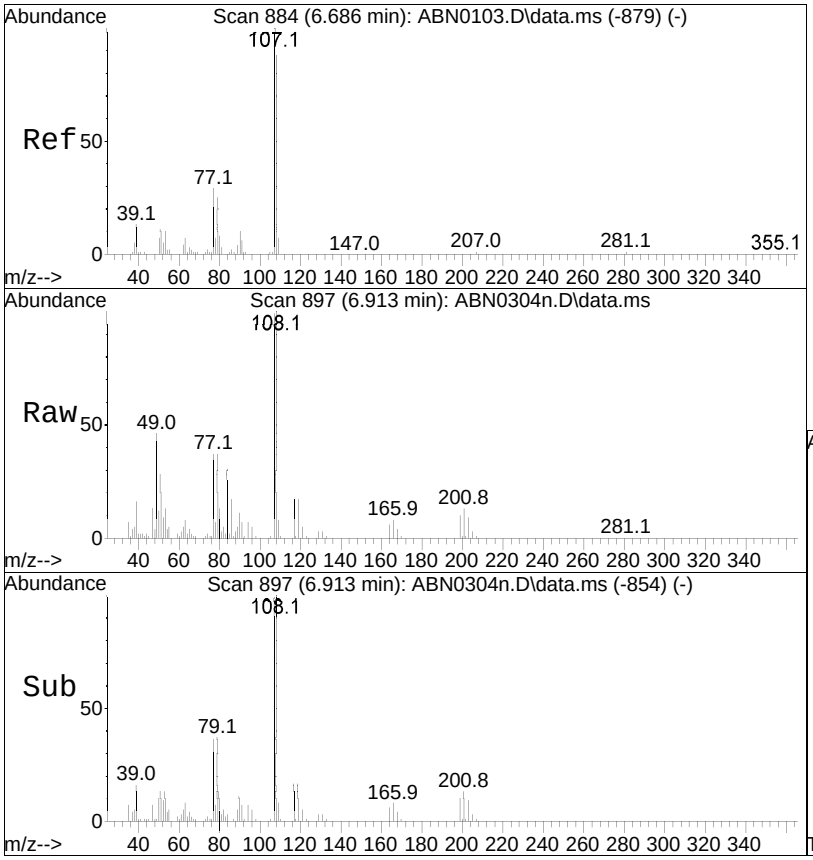


#17
n-Nitrosodi-n-propylamine
Concen: 4.57 ug/ml
RT: 6.872 min Scan# 890
Delta R.T. 0.000 min
Lab File: ABN0304n.D
Acq: 5 Mar 2024 12:10 am

Tgt Ion: 70 Resp: 46703

Ion	Ratio	Lower	Upper
70	100		
130	17.6	18.2	27.4#
101	9.0	7.8	11.8

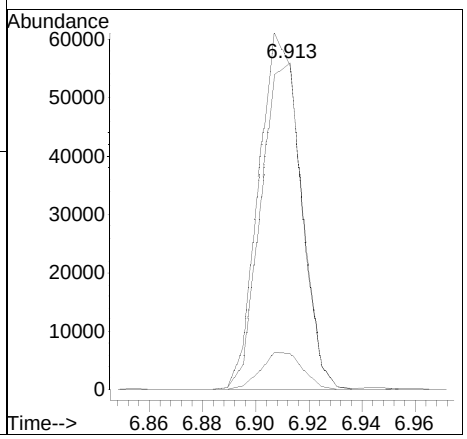


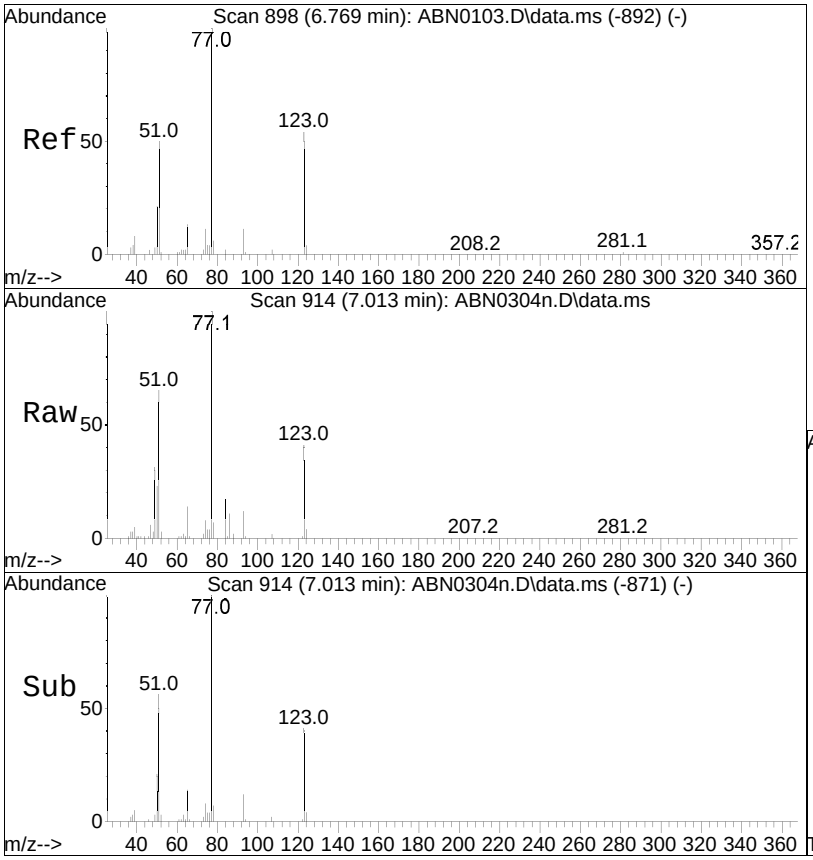


#18
3-Methylphenol/4-Methylphenol
Concen: 4.58 ug/ml
RT: 6.913 min Scan# 897
Delta R.T. 0.000 min
Lab File: ABN0304n.D
Acq: 5 Mar 2024 12:10 am

Tgt Ion:108 Resp: 60485

Ion	Ratio	Lower	Upper
108	100		
107	111.1	88.6	132.8
90	11.6	8.8	13.2

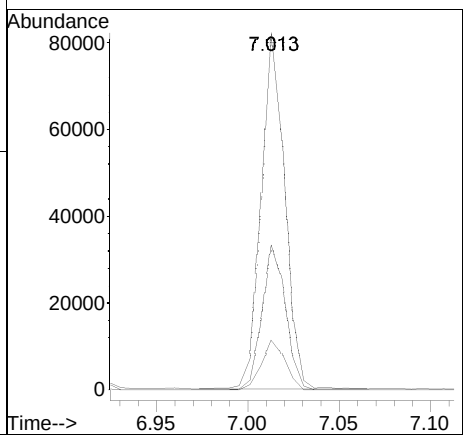


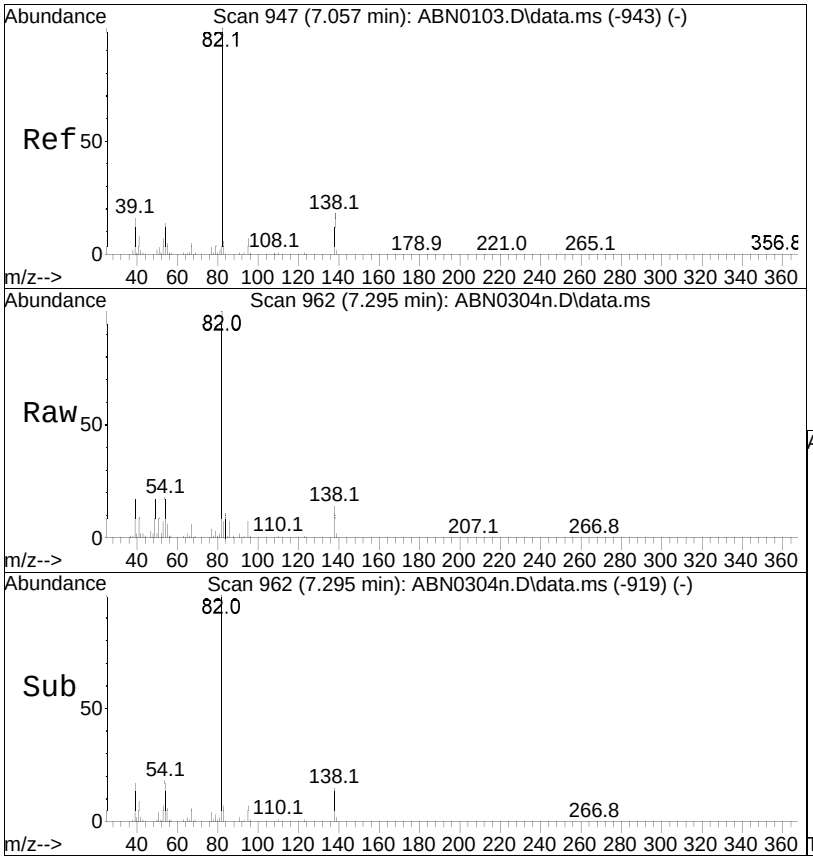


#20
Nitrobenzene
Concen: 5.08 ug/ml
RT: 7.013 min Scan# 914
Delta R.T. 0.000 min
Lab File: ABN0304n.D
Acq: 5 Mar 2024 12:10 am

Tgt Ion: 77 Resp: 72798

Ion	Ratio	Lower	Upper
77	100		
123	40.8	36.3	54.5
65	14.1	11.6	17.4

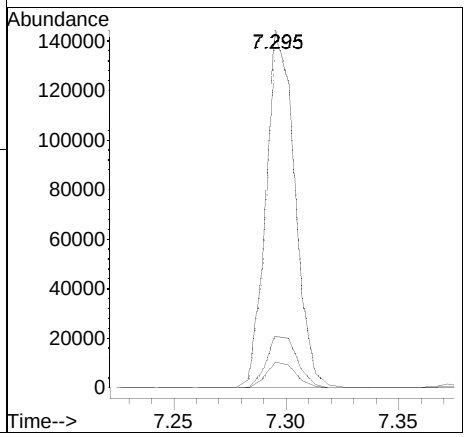


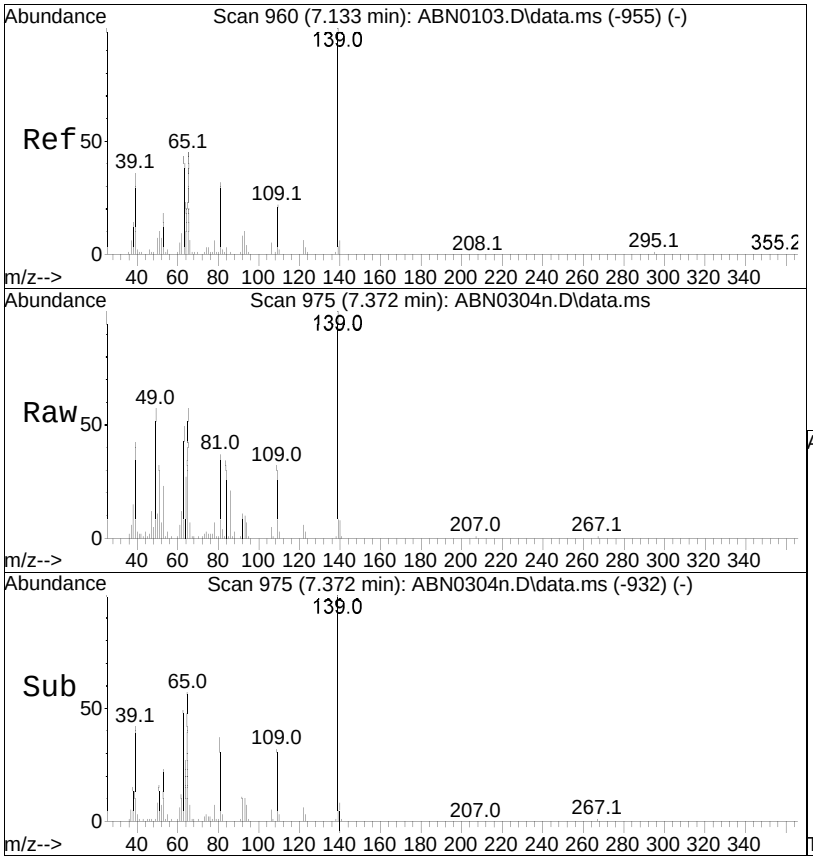


#21
Isophorone
Concen: 4.64 ug/ml
RT: 7.295 min Scan# 962
Delta R.T. 0.000 min
Lab File: ABN0304n.D
Acq: 5 Mar 2024 12:10 am

Tgt Ion: 82 Resp: 127119

Ion	Ratio	Lower	Upper
82	100		
138	15.5	14.7	22.1
95	7.4	5.2	7.8

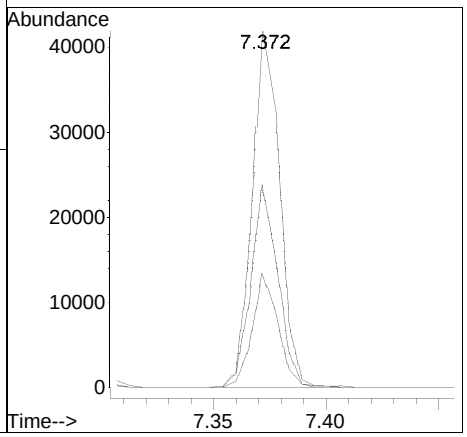


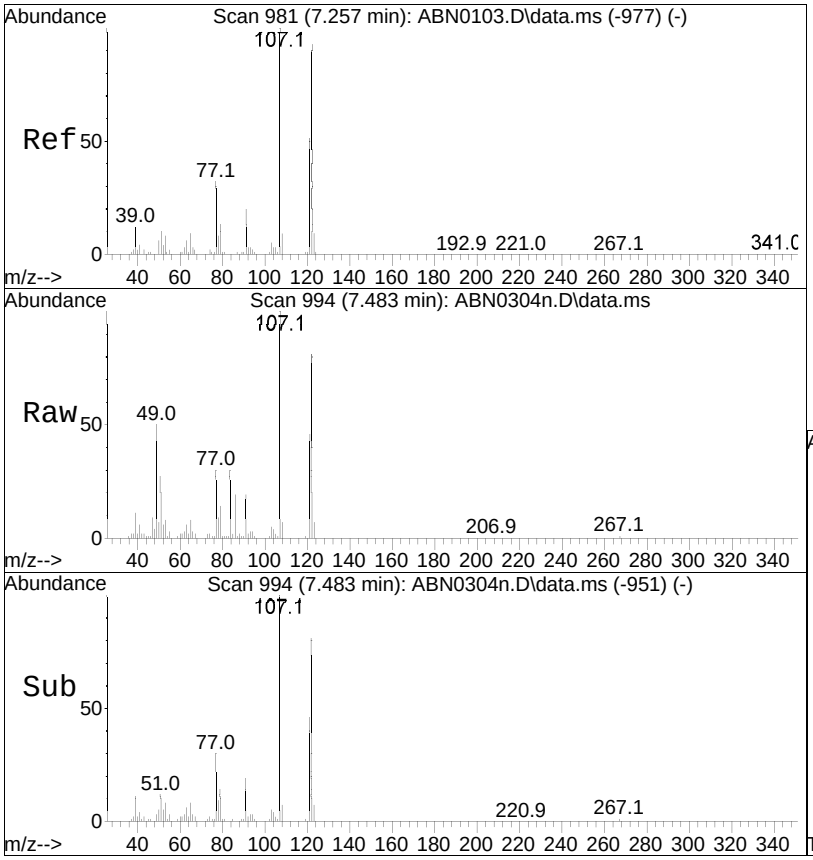


#22
2-Nitrophenol
Concen: 6.18 ug/ml
RT: 7.372 min Scan# 975
Delta R.T. 0.000 min
Lab File: ABN0304n.D
Acq: 5 Mar 2024 12:10 am

Tgt Ion:139 Resp: 35439

Ion	Ratio	Lower	Upper
139	100		
109	30.1	19.4	29.0#
65	55.7	46.1	69.1

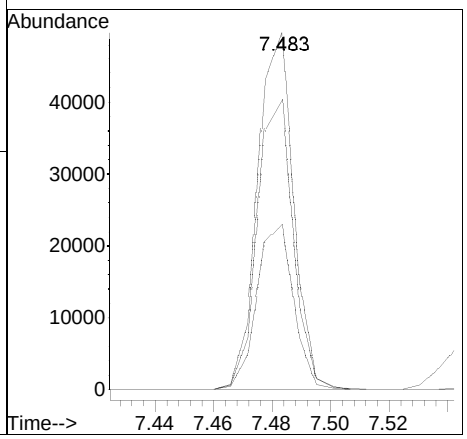


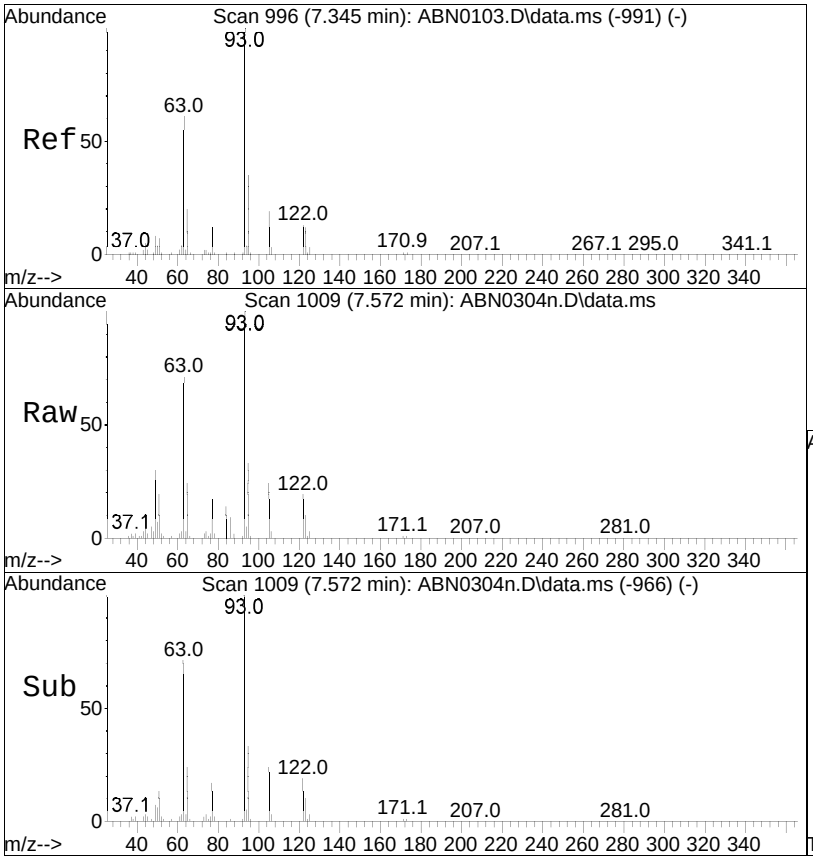


#23
2,4-Dimethylphenol
Concen: 2.98 ug/ml
RT: 7.483 min Scan# 994
Delta R.T. 0.000 min
Lab File: ABN0304n.D
Acq: 5 Mar 2024 12:10 am

Tgt Ion:107 Resp: 42174

Ion	Ratio	Lower	Upper
107	100		
121	47.6	40.0	60.0
122	81.7	70.2	105.4

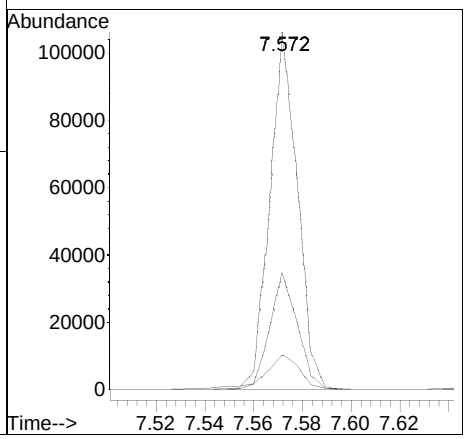


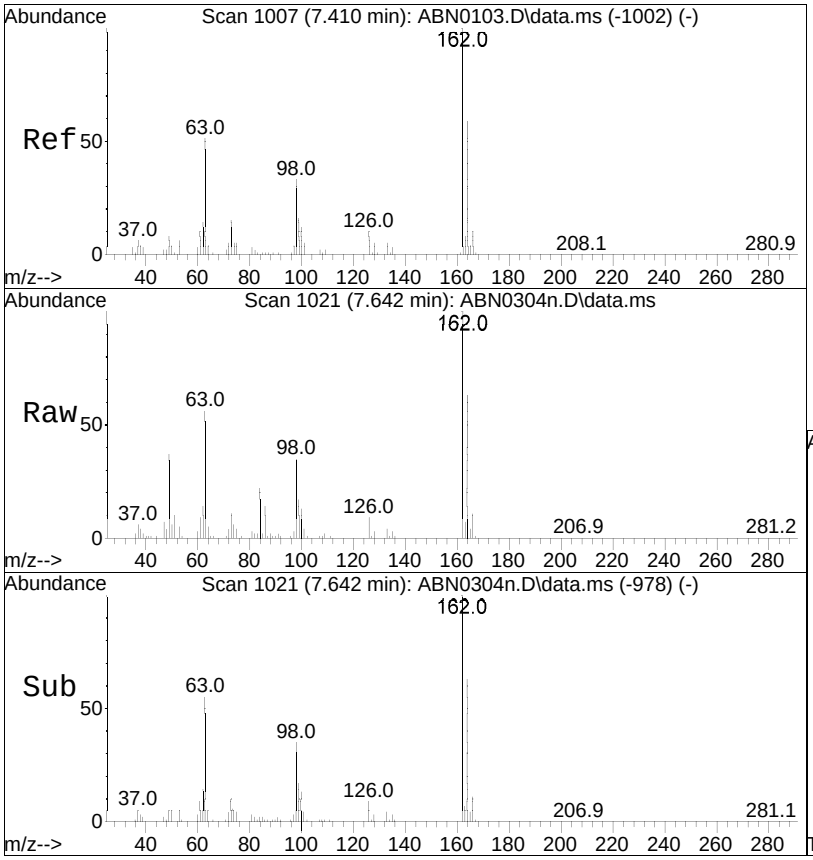


#24
Bis(2-chloroethoxy)methane
Concen: 4.81 ug/ml
RT: 7.572 min Scan# 1009
Delta R.T. 0.000 min
Lab File: ABN0304n.D
Acq: 5 Mar 2024 12:10 am

Tgt Ion: 93 Resp: 82569

Ion	Ratio	Lower	Upper
93	100		
95	33.0	25.8	38.8
123	12.4	10.1	15.1

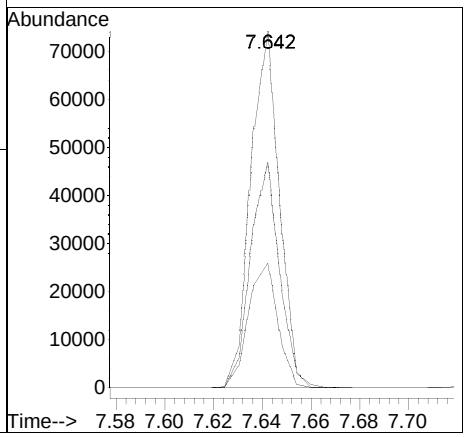


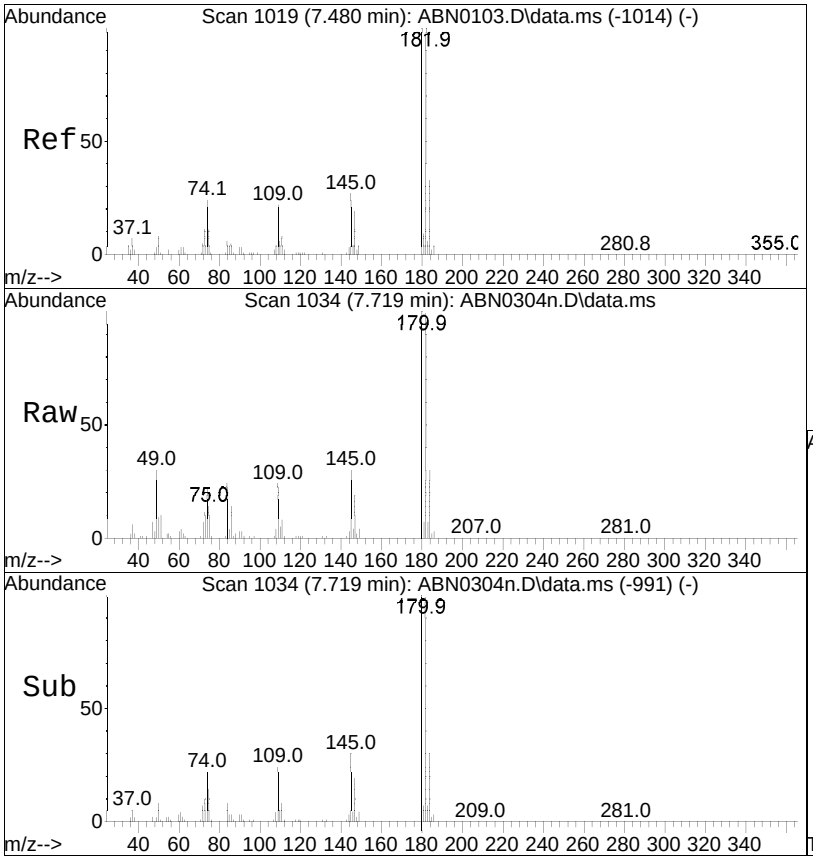


#25
2,4-Dichlorophenol
Concen: 5.11 ug/ml
RT: 7.642 min Scan# 1021
Delta R.T. 0.000 min
Lab File: ABN0304n.D
Acq: 5 Mar 2024 12:10 am

Tgt Ion:162 Resp: 60840

Ion	Ratio	Lower	Upper
162	100		
164	63.8	51.0	76.4
98	36.3	32.2	48.2

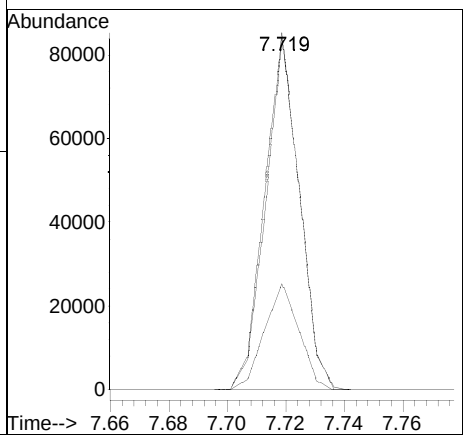


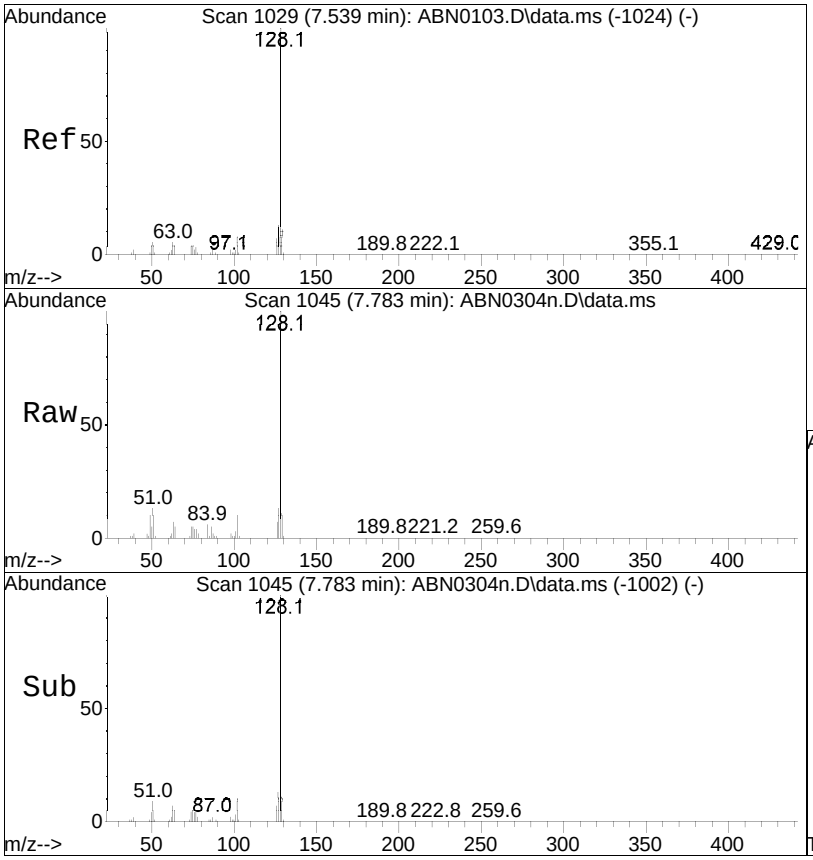


#26
1,2,4-Trichlorobenzene
Concen: 5.10 ug/ml
RT: 7.719 min Scan# 1034
Delta R.T. 0.000 min
Lab File: ABN0304n.D
Acq: 5 Mar 2024 12:10 am

Tgt Ion:180 Resp: 69742

Ion	Ratio	Lower	Upper
180	100		
182	96.5	76.0	114.0
145	29.9	25.7	38.5

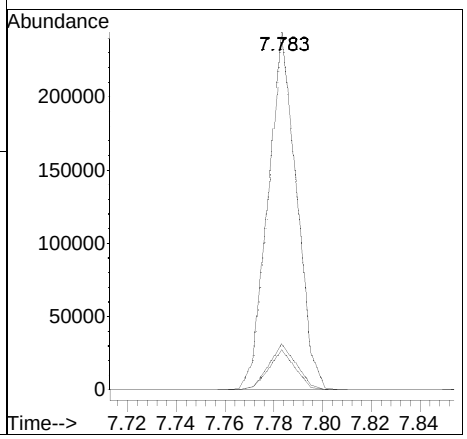


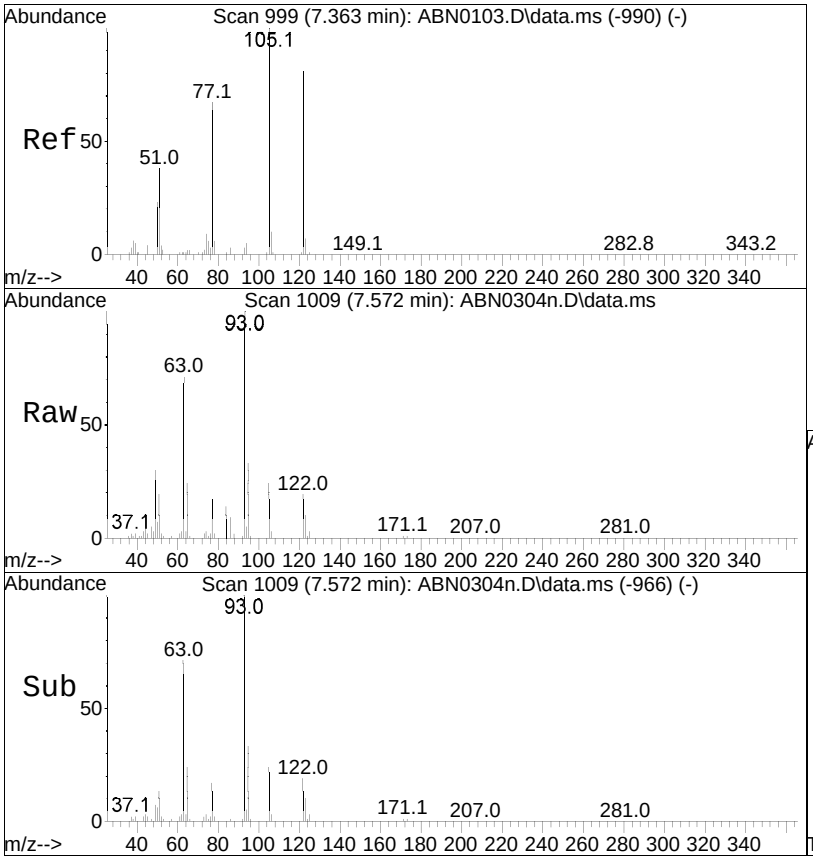


#35
Naphthalene
Concen: 4.54 ug/ml
RT: 7.783 min Scan# 1045
Delta R.T. 0.000 min
Lab File: ABN0304n.D
Acq: 5 Mar 2024 12:10 am

Tgt Ion:128 Resp: 195574

Ion	Ratio	Lower	Upper
128	100		
129	10.7	8.7	13.1
127	12.8	10.3	15.5

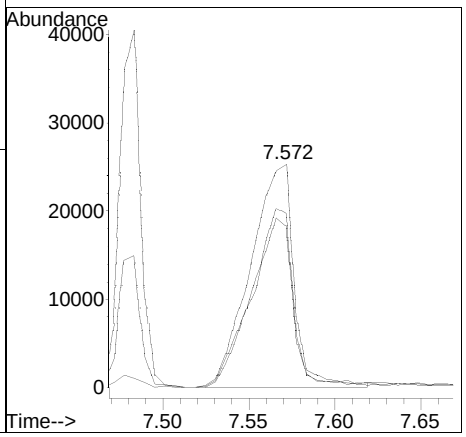


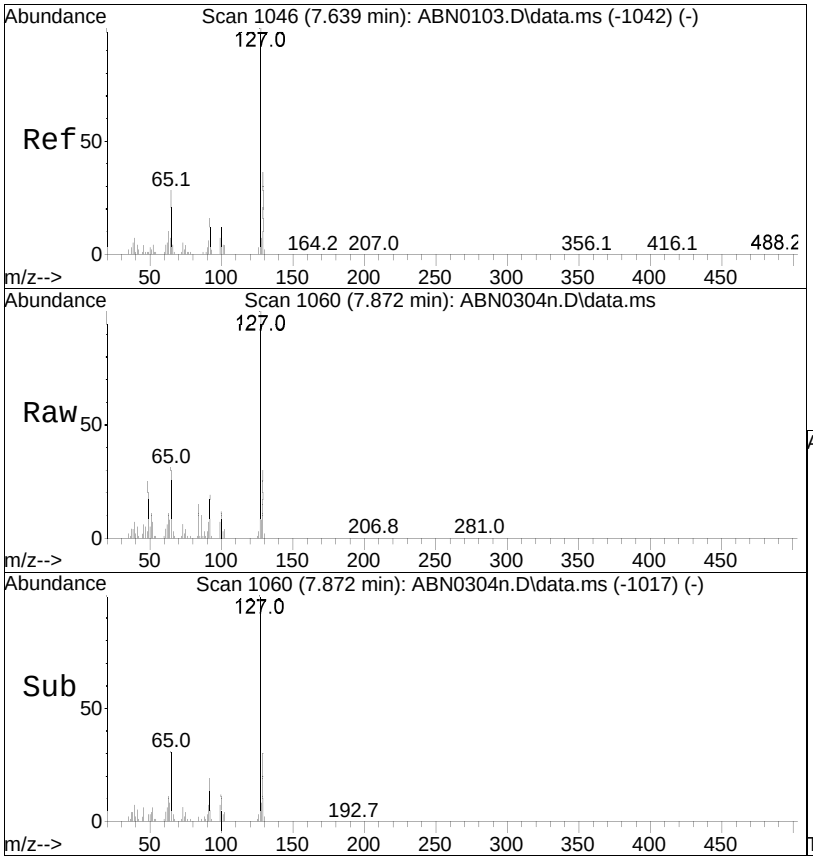


#36
Benzoic Acid
Concen: 5.40 ug/ml
RT: 7.572 min Scan# 1009
Delta R.T. 0.000 min
Lab File: ABN0304n.D
Acq: 5 Mar 2024 12:10 am

Tgt Ion:105 Resp: 44534

Ion	Ratio	Lower	Upper
105	100		
122	76.2	59.9	89.9
77	74.2	60.1	90.1

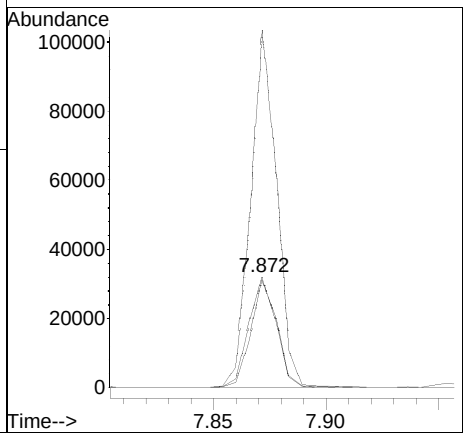


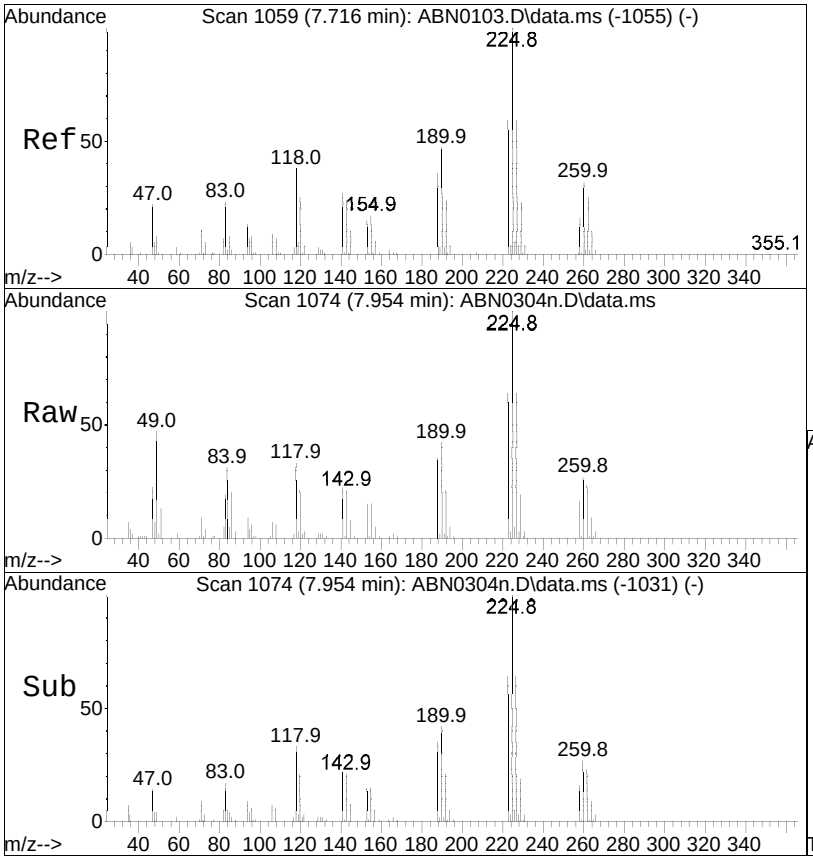


#37
4-Chloroaniline
Concen: 4.76 ug/ml
RT: 7.872 min Scan# 1060
Delta R.T. 0.000 min
Lab File: ABN0304n.D
Acq: 5 Mar 2024 12:10 am

Tgt Ion: 65 Resp: 26877

Ion	Ratio	Lower	Upper
65	100		
127	304.3	237.6	356.4
129	92.9	76.3	114.5

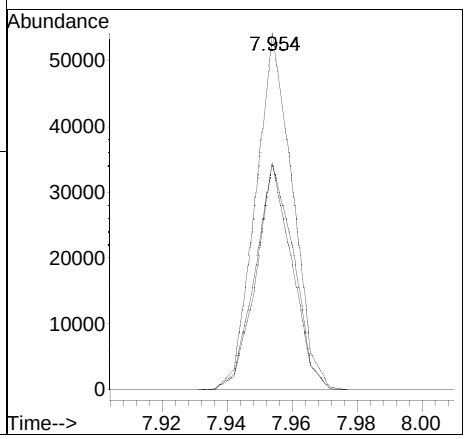


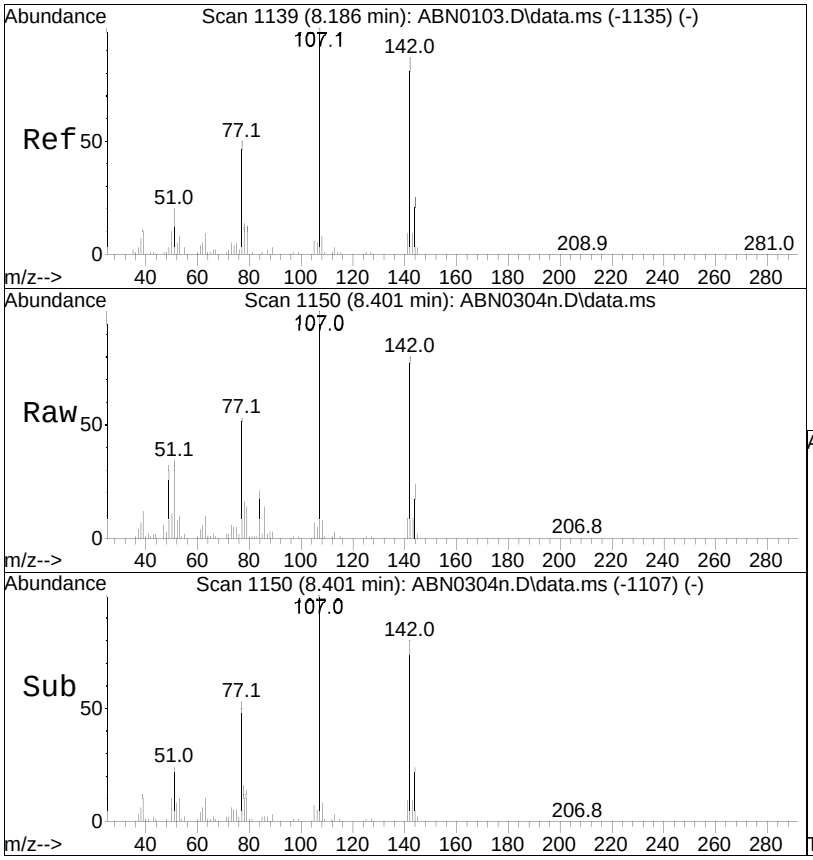


#38
Hexachlorobutadiene
Concen: 4.85 ug/ml
RT: 7.954 min Scan# 1074
Delta R.T. 0.000 min
Lab File: ABN0304n.D
Acq: 5 Mar 2024 12:10 am

Tgt Ion:225 Resp: 42607

Ion	Ratio	Lower	Upper
225	100		
223	63.5	50.3	75.5
227	64.4	52.2	78.2

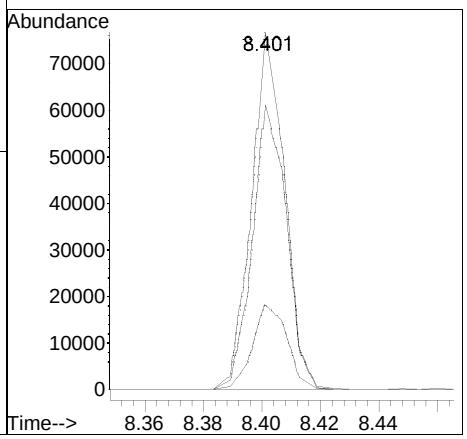


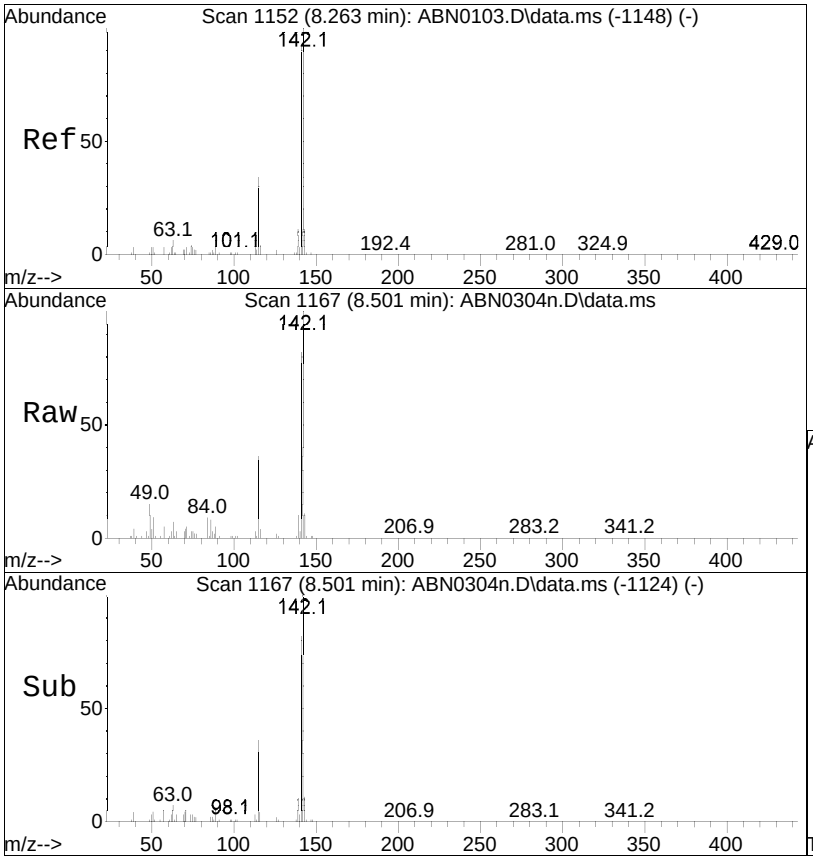


#39
p-Chloro-m-cresol
Concen: 4.80 ug/ml
RT: 8.401 min Scan# 1150
Delta R.T. 0.000 min
Lab File: ABN0304n.D
Acq: 5 Mar 2024 12:10 am

Tgt Ion:107 Resp: 59826

Ion	Ratio	Lower	Upper
107	100		
144	25.0	20.9	31.3
142	81.6	66.1	99.1

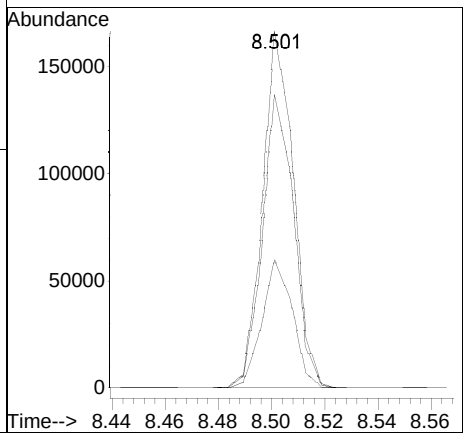


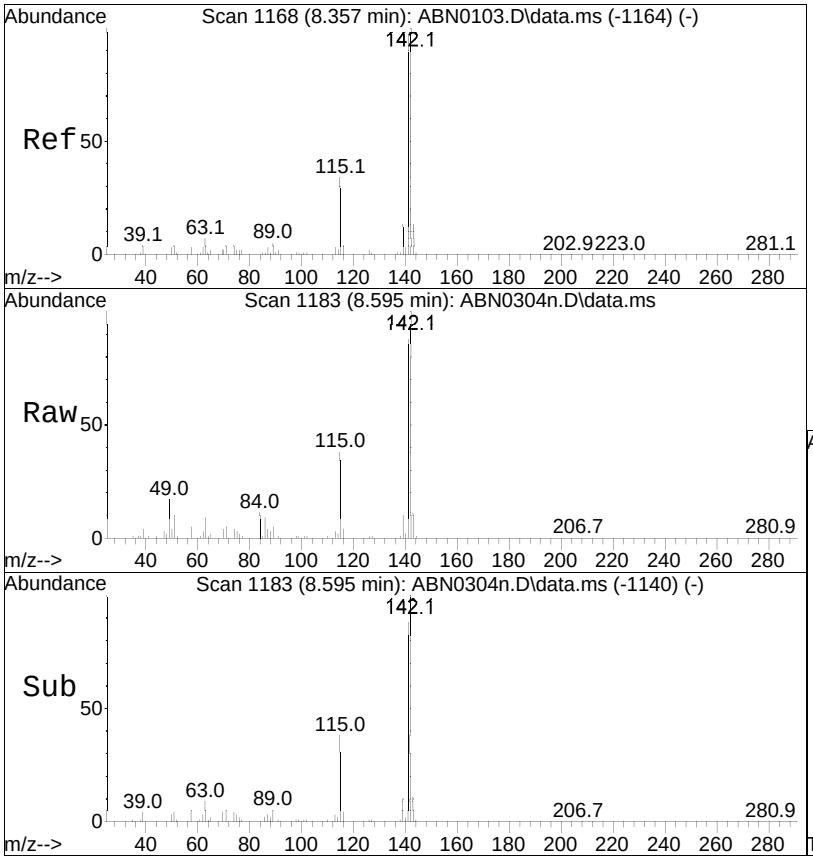


#40
2-Methylnaphthalene
Concen: 4.88 ug/ml
RT: 8.501 min Scan# 1167
Delta R.T. 0.000 min
Lab File: ABN0304n.D
Acq: 5 Mar 2024 12:10 am

Tgt Ion:142 Resp: 133987

Ion	Ratio	Lower	Upper
142	100		
141	83.1	69.6	104.4
115	35.7	26.6	40.0

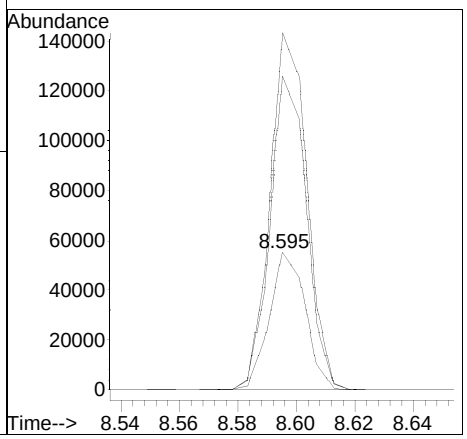


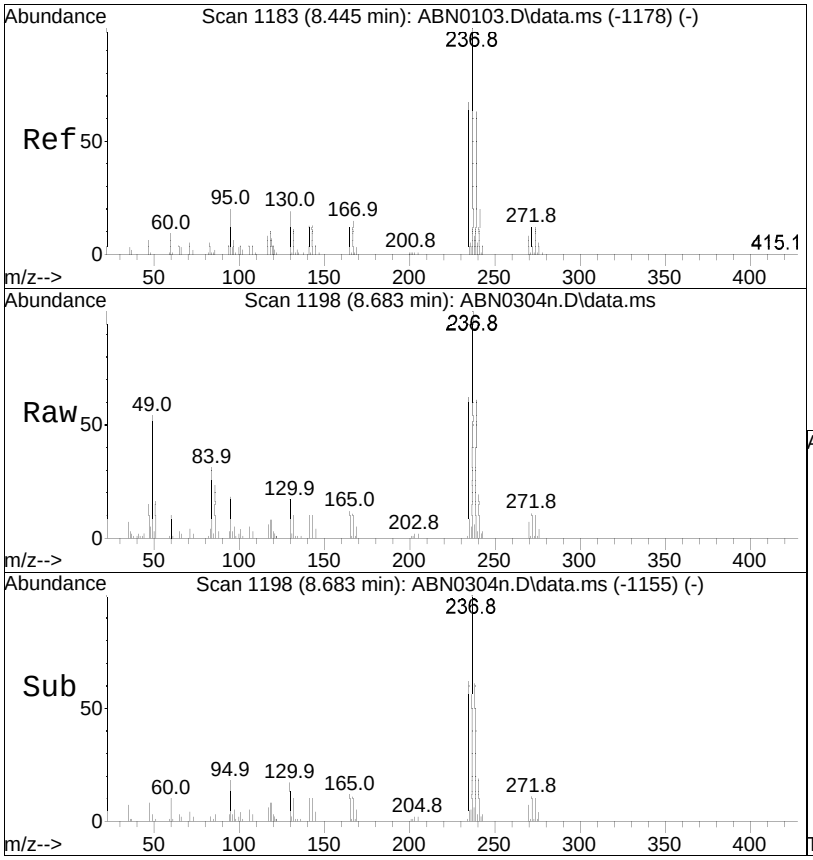


#41
1-Methylnaphthalene
Concen: 4.61 ug/ml
RT: 8.595 min Scan# 1183
Delta R.T. 0.000 min
Lab File: ABN0304n.D
Acq: 5 Mar 2024 12:10 am

Tgt Ion:115 Resp: 47422

Ion	Ratio	Lower	Upper
115	100		
141	229.4	207.8	311.6
142	264.1	226.8	340.2

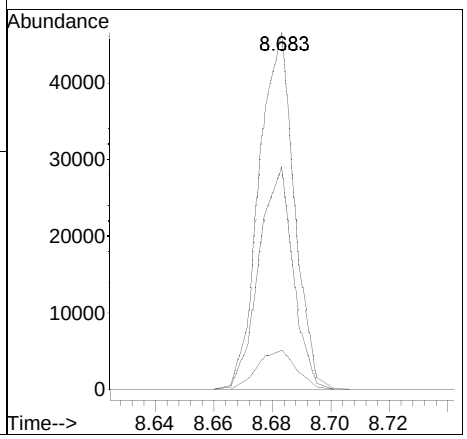


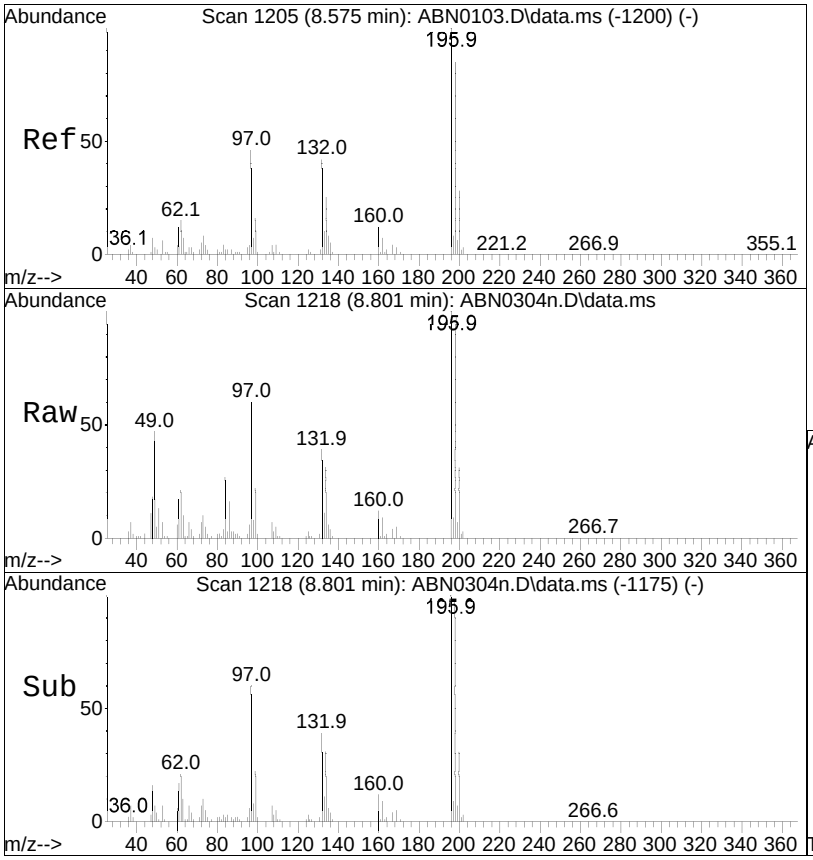


#42
Hexachlorocyclopentadiene
Concen: 4.13 ug/ml
RT: 8.683 min Scan# 1198
Delta R.T. 0.000 min
Lab File: ABN0304n.D
Acq: 5 Mar 2024 12:10 am

Tgt Ion:237 Resp: 38718

Ion	Ratio	Lower	Upper
237	100		
235	60.8	49.7	74.5
272	12.3	9.8	14.6

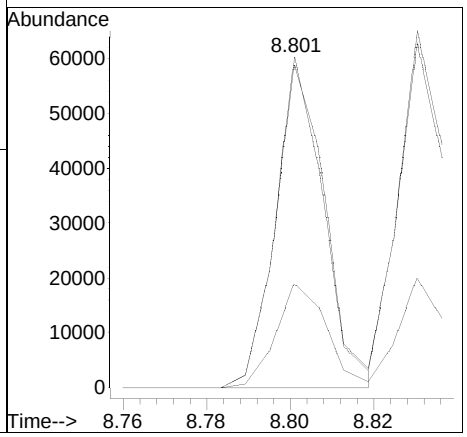


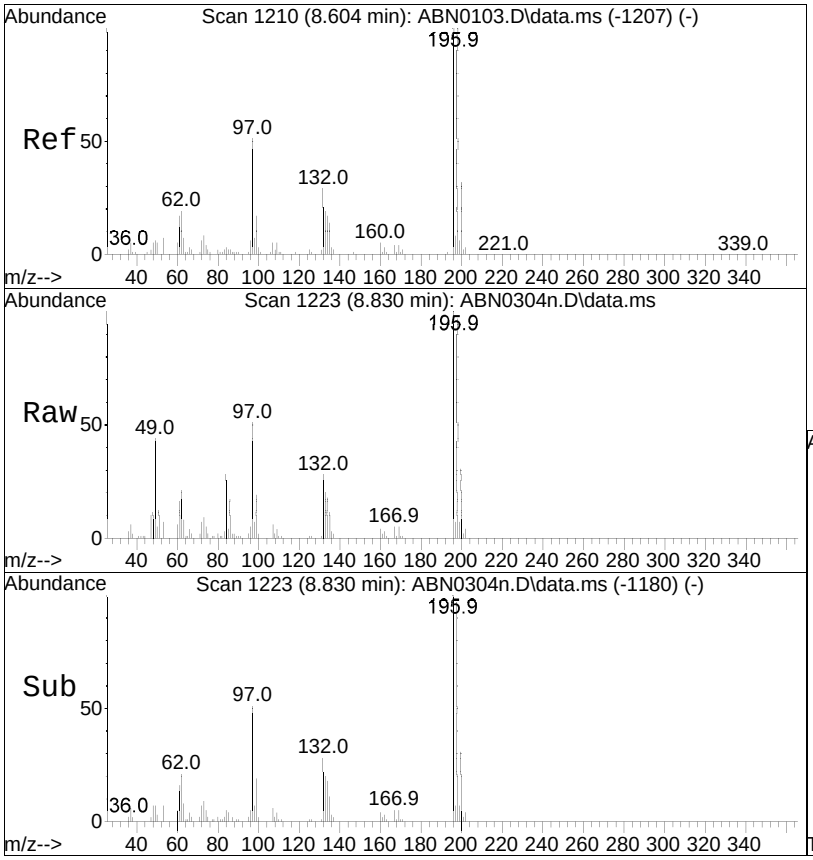


#43
2,4,6-Trichlorophenol
Concen: 5.36 ug/ml
RT: 8.801 min Scan# 1218
Delta R.T. 0.000 min
Lab File: ABN0304n.D
Acq: 5 Mar 2024 12:10 am

Tgt Ion:196 Resp: 47783

Ion	Ratio	Lower	Upper
196	100		
198	101.7	77.5	116.3
200	33.7	23.8	35.6

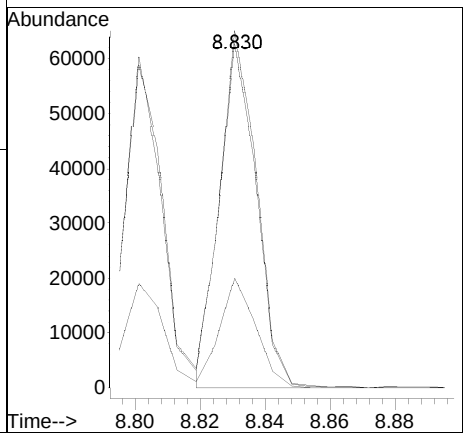


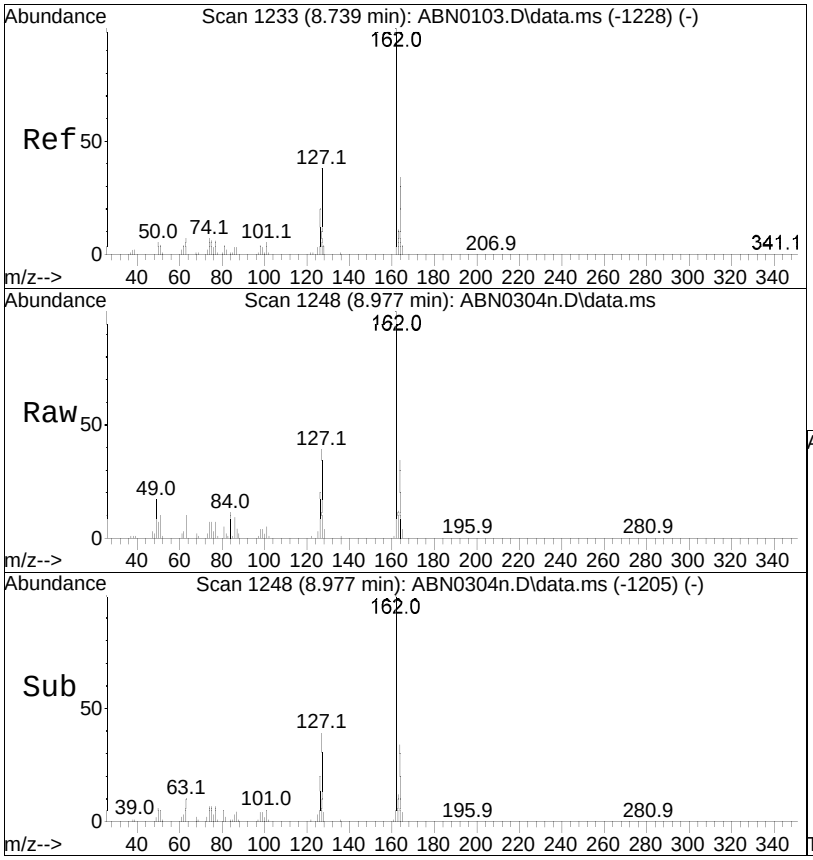


#44
2,4,5-Trichlorophenol
Concen: 5.37 ug/ml
RT: 8.830 min Scan# 1223
Delta R.T. 0.000 min
Lab File: ABN0304n.D
Acq: 5 Mar 2024 12:10 am

Tgt Ion:196 Resp: 51510

Ion	Ratio	Lower	Upper
196	100		
200	30.0	25.4	38.0
198	96.1	78.0	117.0

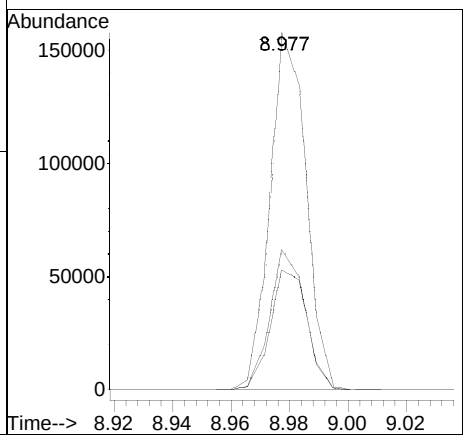


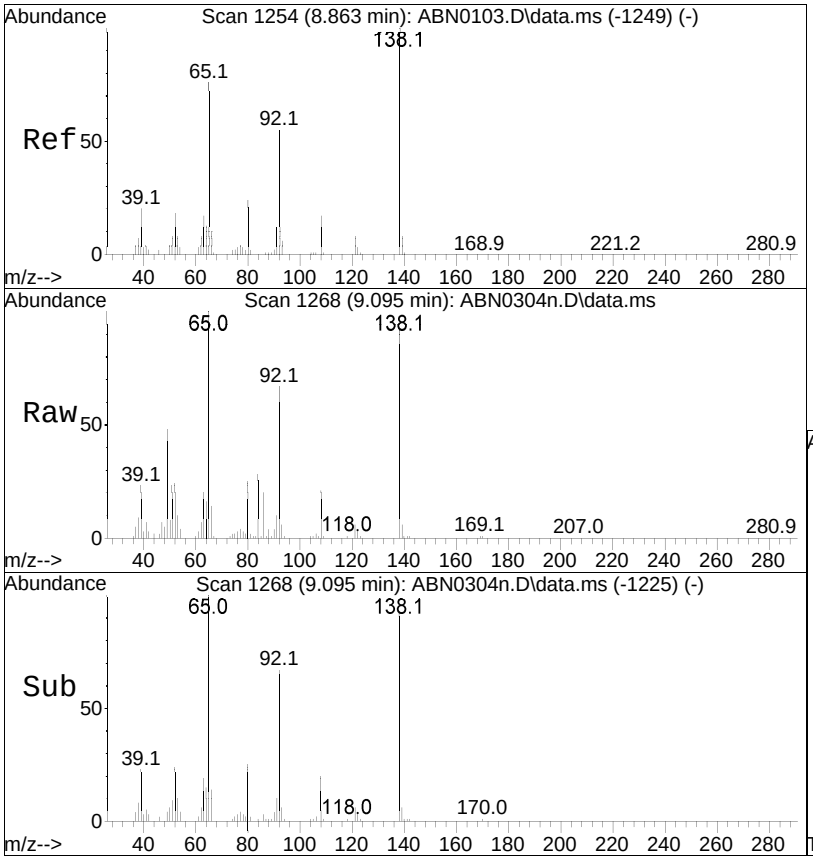


#46
2-Chloronaphthalene
Concen: 4.69 ug/ml
RT: 8.977 min Scan# 1248
Delta R.T. 0.000 min
Lab File: ABN0304n.D
Acq: 5 Mar 2024 12:10 am

Tgt Ion:162 Resp: 134158

Ion	Ratio	Lower	Upper
162	100		
127	38.3	32.2	48.4
164	34.7	25.7	38.5

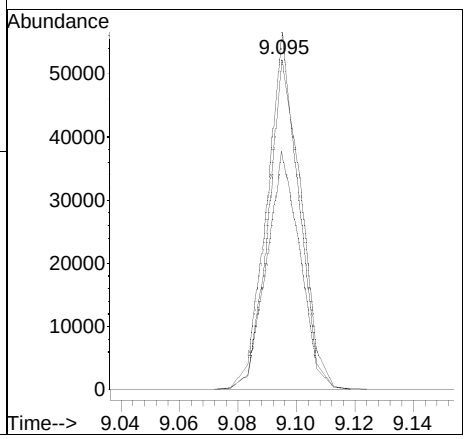


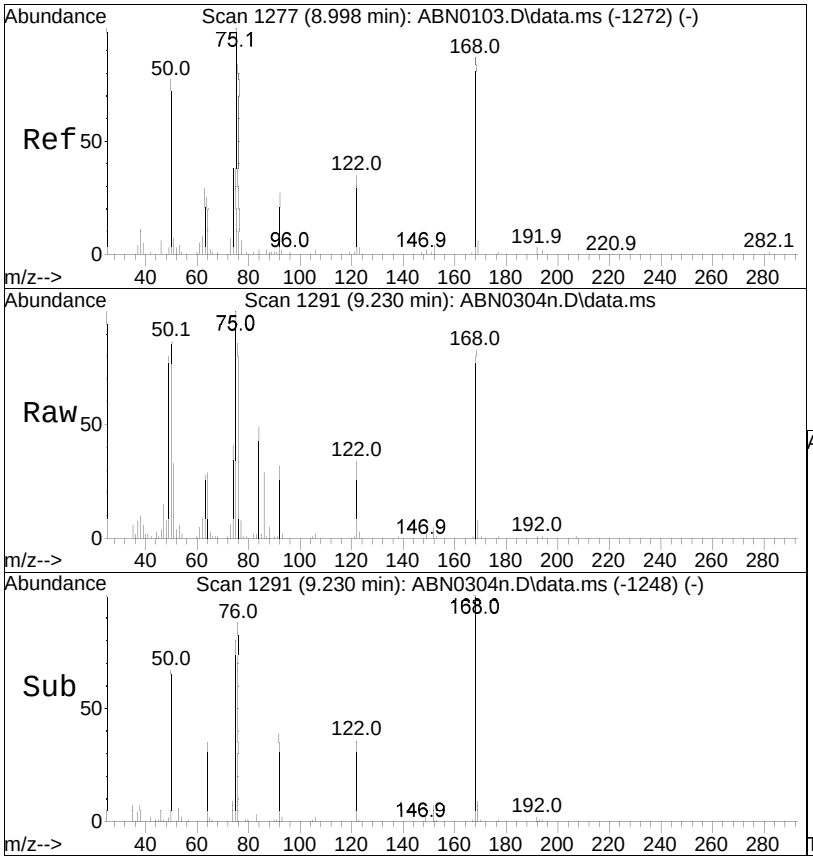


#47
2-Nitroaniline
Concen: 5.09 ug/ml
RT: 9.095 min Scan# 1268
Delta R.T. 0.000 min
Lab File: ABN0304n.D
Acq: 5 Mar 2024 12:10 am

Tgt Ion:138 Resp: 40380

Ion	Ratio	Lower	Upper
138	100		
92	73.4	53.5	80.3
65	104.1	86.3	129.5

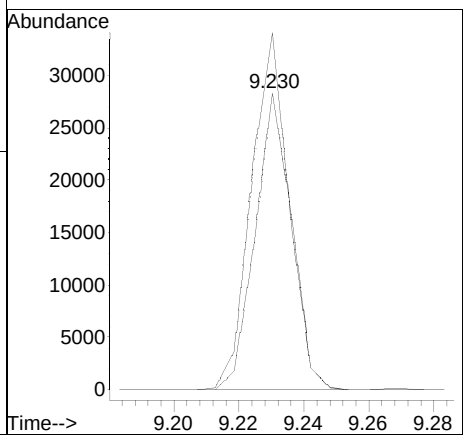


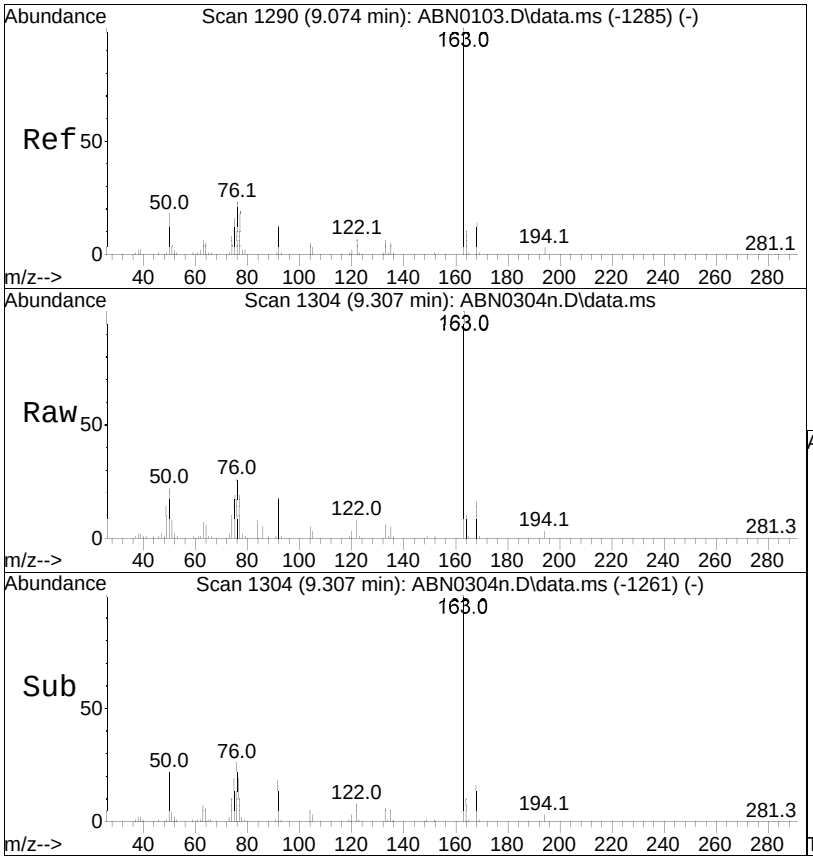


#48
1,4-Dinitrobenzene
Concen: 6.37 ug/ml
RT: 9.230 min Scan# 1291
Delta R.T. 0.000 min
Lab File: ABN0304n.D
Acq: 5 Mar 2024 12:10 am

Tgt Ion:168 Resp: 21995

Ion	Ratio	Lower	Upper
168	100		
75	123.4	121.8	182.8

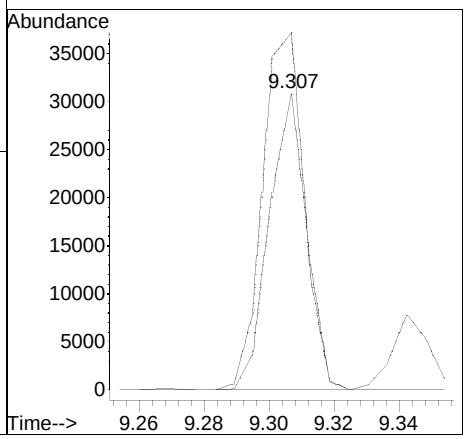


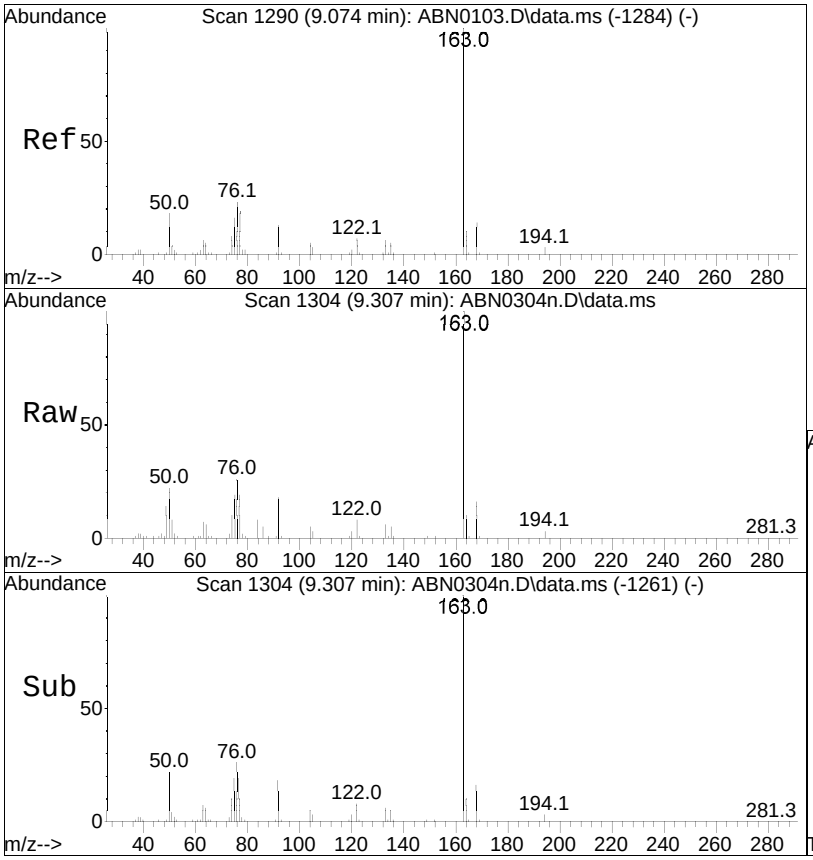


#49
1,3-Dinitrobenzene
Concen: 6.10 ug/ml
RT: 9.307 min Scan# 1304
Delta R.T. 0.000 min
Lab File: ABN0304n.D
Acq: 5 Mar 2024 12:10 am

Tgt Ion:168 Resp: 24361

Ion	Ratio	Lower	Upper
168	100		
75	134.4	22.7	34.1#

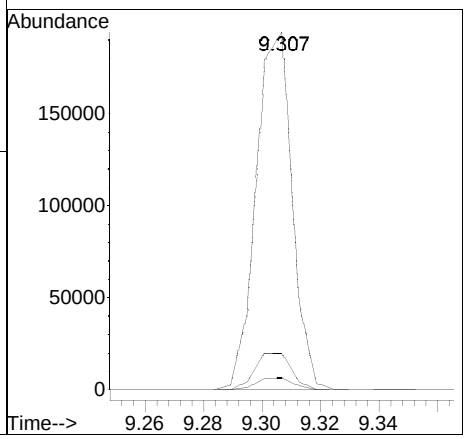


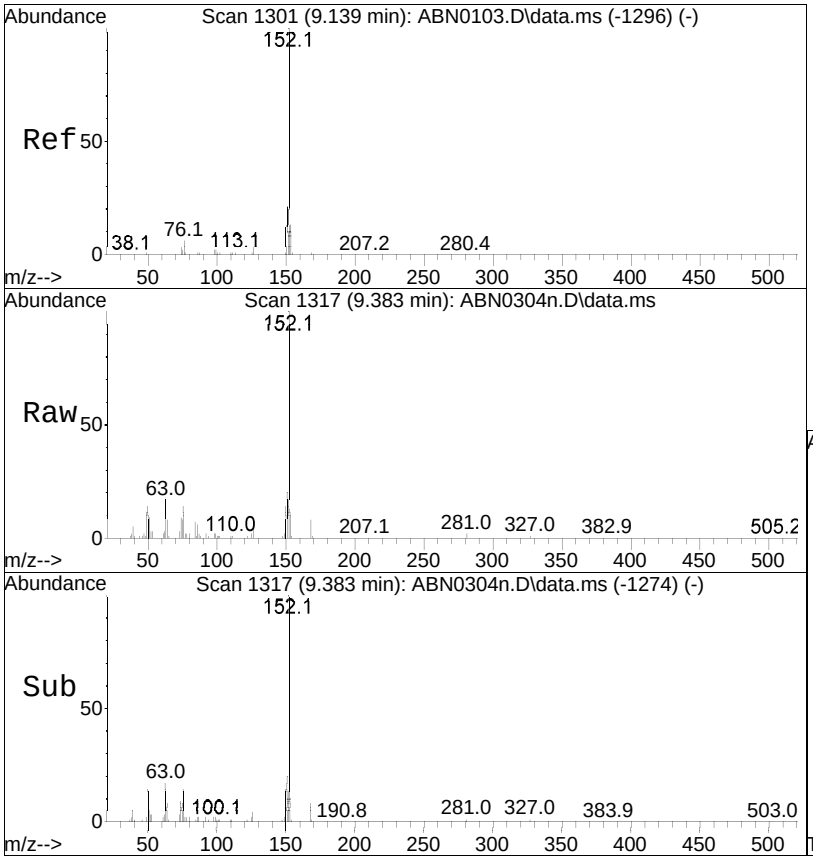


#50
Dimethyl phthalate
Concen: 4.89 ug/ml
RT: 9.307 min Scan# 1304
Delta R.T. 0.000 min
Lab File: ABN0304n.D
Acq: 5 Mar 2024 12:10 am

Tgt Ion:163 Resp: 164553

Ion	Ratio	Lower	Upper
163	100		
194	3.5	3.5	5.3#
164	10.5	7.9	11.9

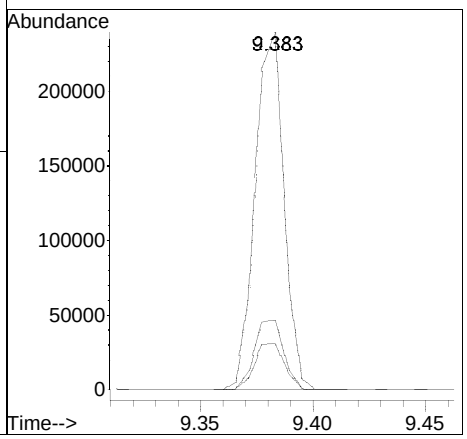


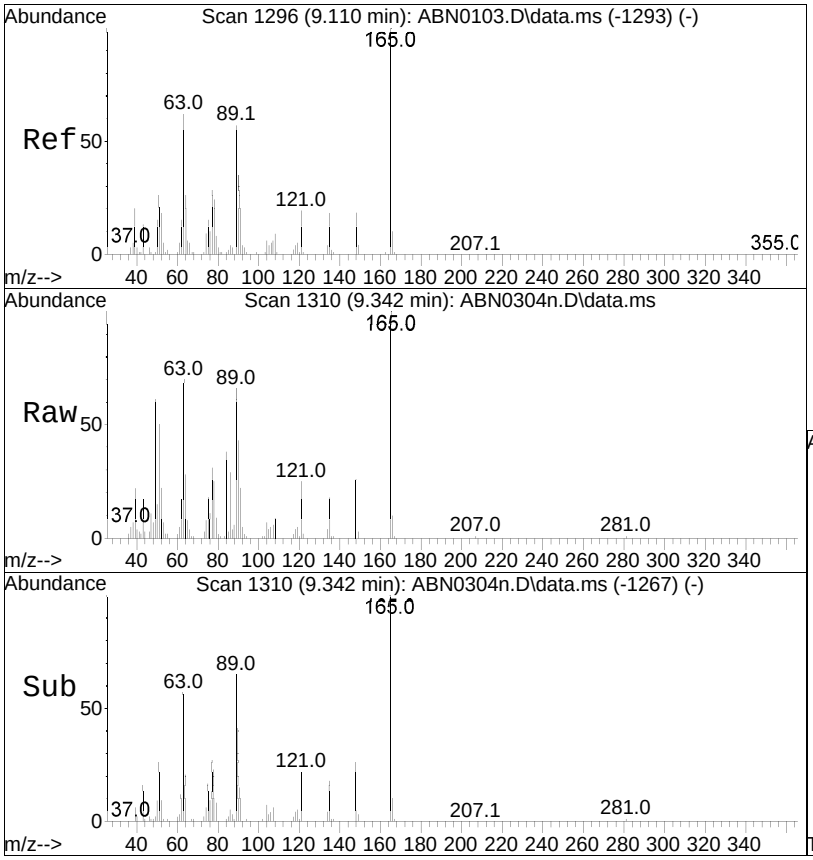


#51
Acenaphthylene
Concen: 4.59 ug/ml
RT: 9.383 min Scan# 1317
Delta R.T. 0.000 min
Lab File: ABN0304n.D
Acq: 5 Mar 2024 12:10 am

Tgt Ion:152 Resp: 211183

Ion	Ratio	Lower	Upper
152	100		
151	20.1	15.8	23.6
153	13.8	10.5	15.7

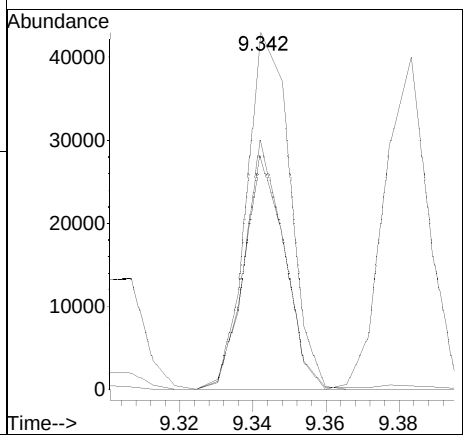


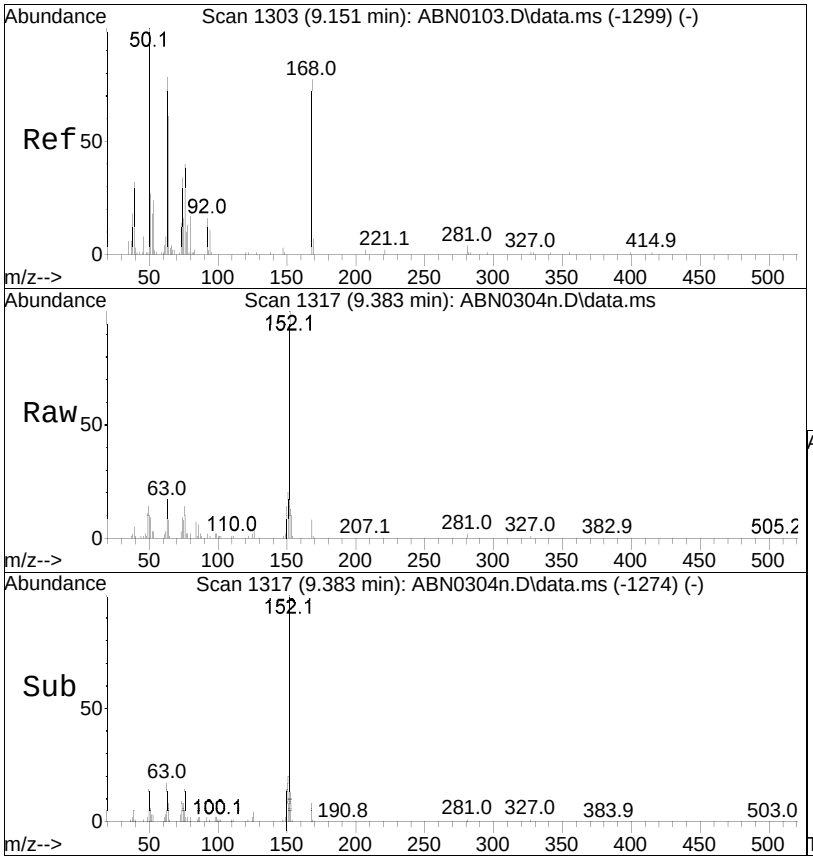


#52
2,6-Dinitrotoluene
Concen: 5.46 ug/ml
RT: 9.342 min Scan# 1310
Delta R.T. 0.000 min
Lab File: ABN0304n.D
Acq: 5 Mar 2024 12:10 am

Tgt Ion:165 Resp: 35524

Ion	Ratio	Lower	Upper
165	100		
89	62.2	54.2	81.2
63	63.2	64.2	96.2#

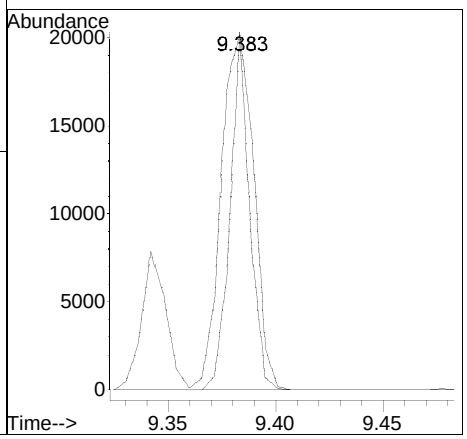


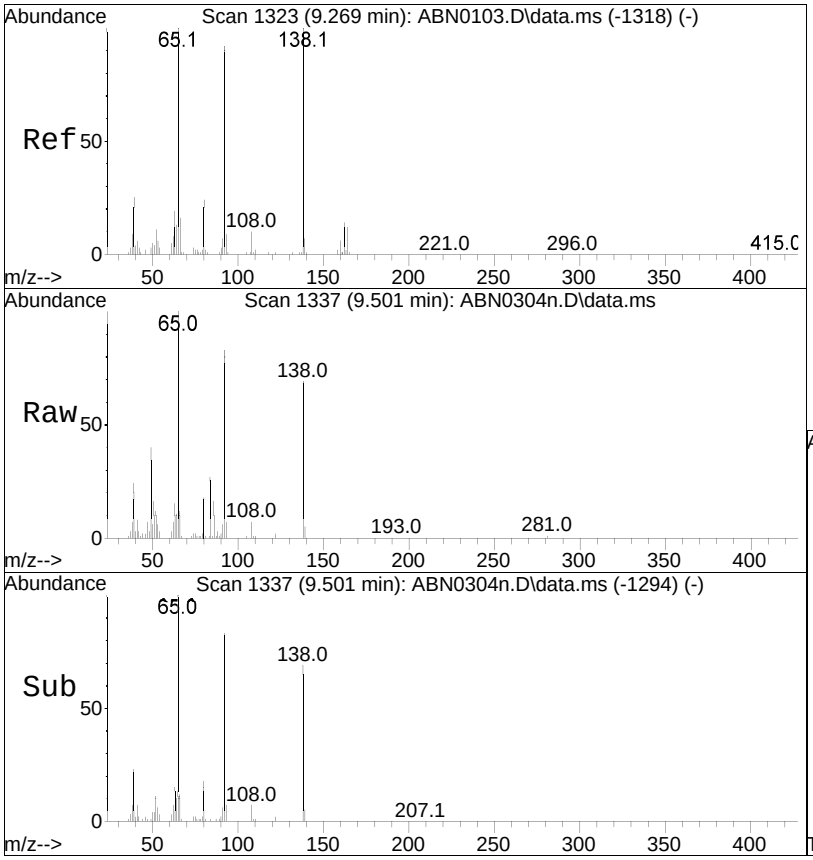


#53
1,2-Dinitrobenzene
Concen: 5.77 ug/ml M3
RT: 9.383 min Scan# 1317
Delta R.T. 0.000 min
Lab File: ABN0304n.D
Acq: 5 Mar 2024 12:10 am

Tgt Ion:168 Resp: 15631

Ion	Ratio	Lower	Upper
168	100		
75	3.7	30.9	46.3#

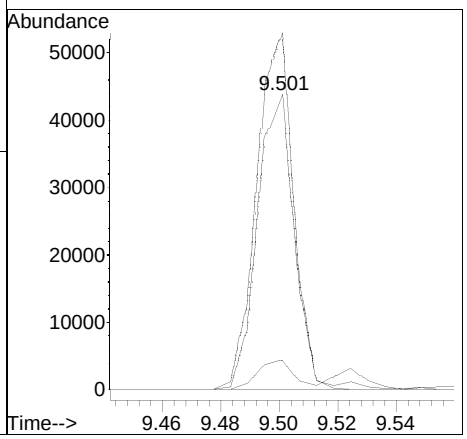


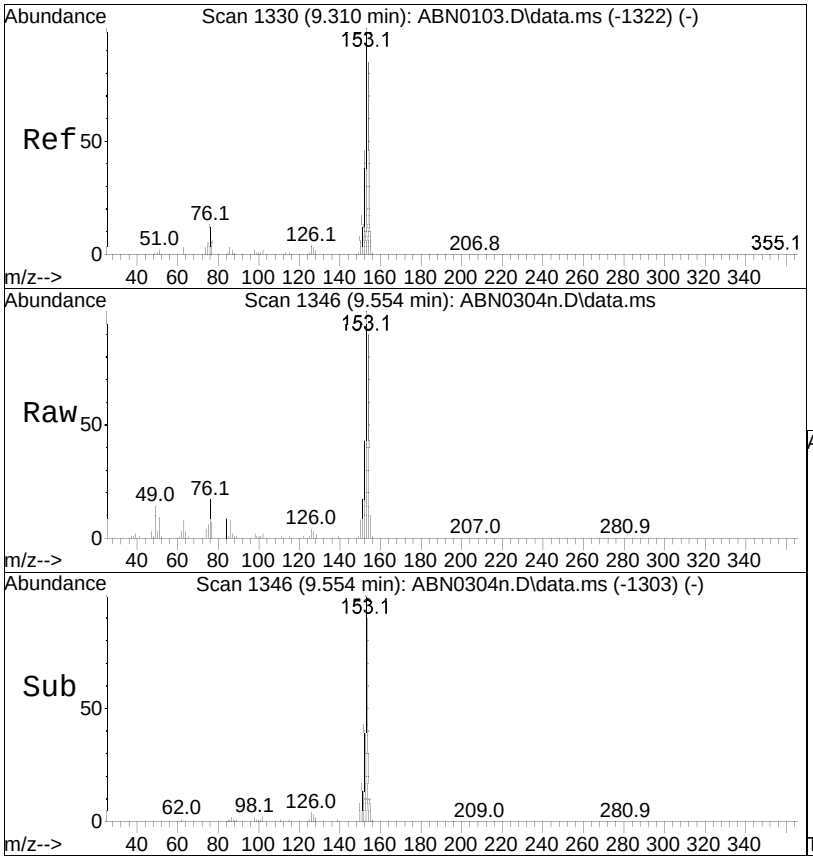


#63
3-Nitroaniline
Concen: 4.89 ug/ml
RT: 9.501 min Scan# 1337
Delta R.T. 0.000 min
Lab File: ABN0304n.D
Acq: 5 Mar 2024 12:10 am

Tgt Ion:138 Resp: 37604

Ion	Ratio	Lower	Upper
138	100		
92	123.9	93.4	140.2
108	10.3	9.5	14.3

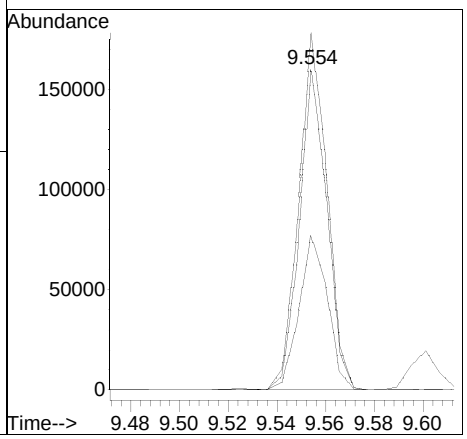


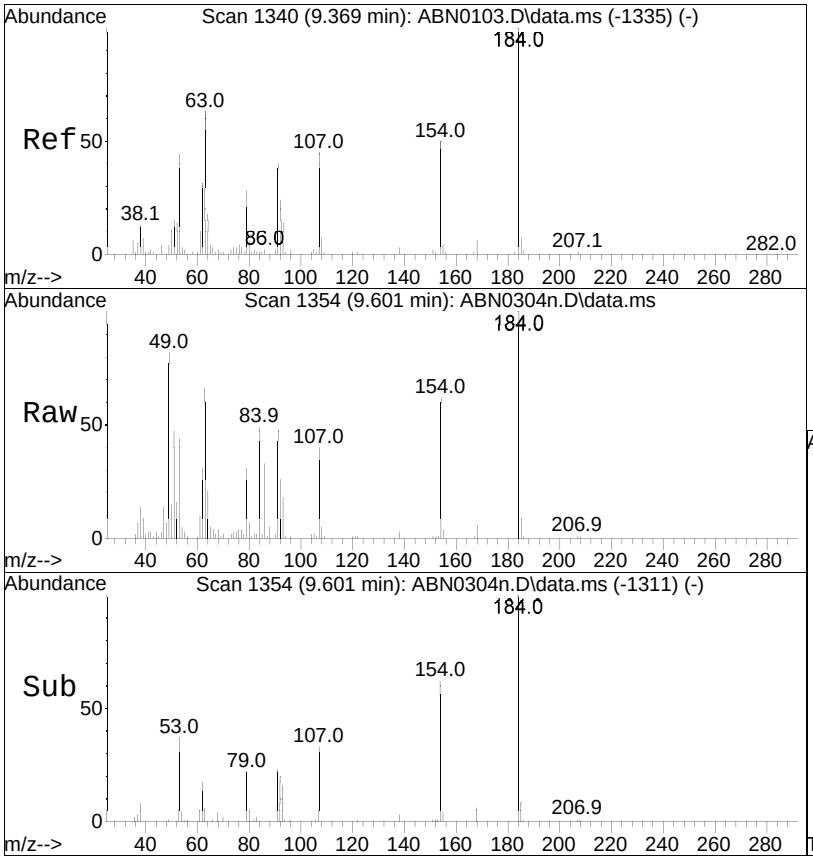


#64
Acenaphthene
Concen: 4.13 ug/ml
RT: 9.554 min Scan# 1346
Delta R.T. 0.000 min
Lab File: ABN0304n.D
Acq: 5 Mar 2024 12:10 am

Tgt Ion:154 Resp: 125343

Ion	Ratio	Lower	Upper
154	100		
153	114.3	85.3	127.9
152	50.0	41.4	62.0

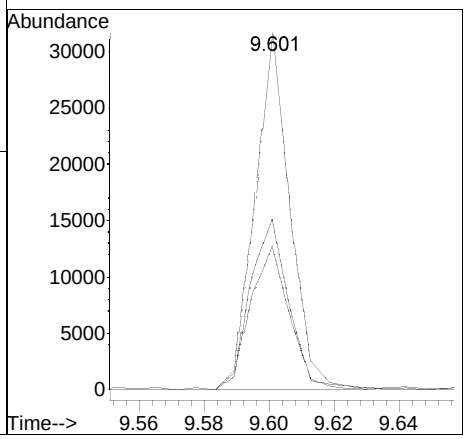


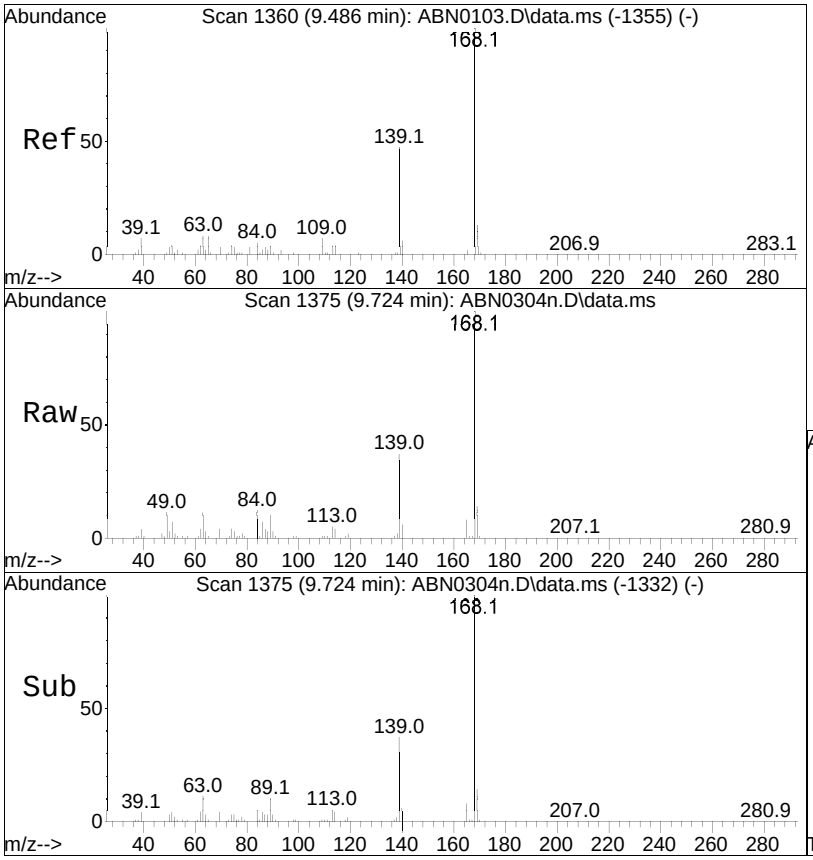


#65
2,4-Dinitrophenol
Concen: 6.50 ug/ml
RT: 9.601 min Scan# 1354
Delta R.T. 0.000 min
Lab File: ABN0304n.D
Acq: 5 Mar 2024 12:10 am

Tgt Ion:184 Resp: 23405

Ion	Ratio	Lower	Upper
184	100		
107	45.8	37.7	56.5
91	53.7	46.3	69.5

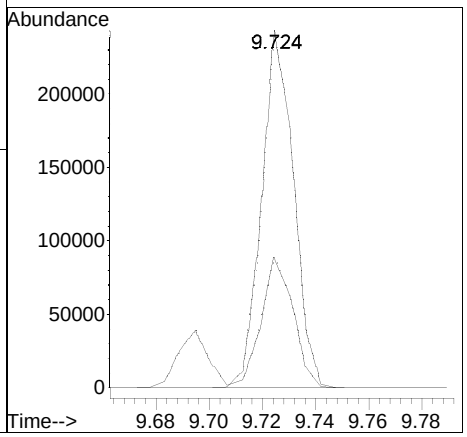


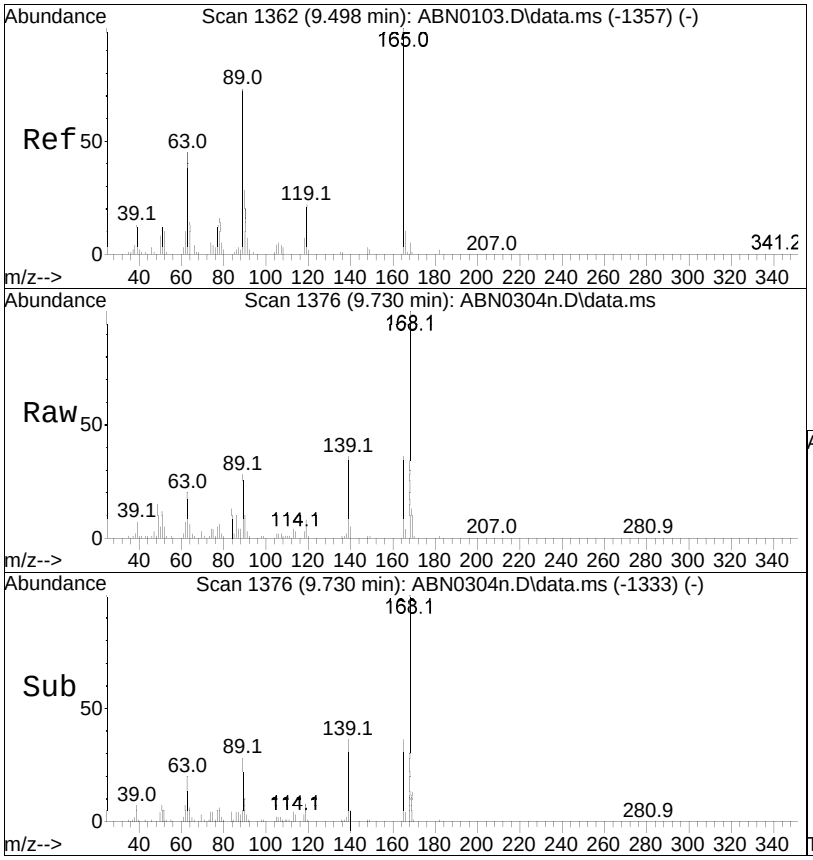


#66
Dibenzofuran
Concen: 4.42 ug/ml
RT: 9.724 min Scan# 1375
Delta R.T. 0.000 min
Lab File: ABN0304n.D
Acq: 5 Mar 2024 12:10 am

Tgt Ion:168 Resp: 200504

Ion	Ratio	Lower	Upper
168	100		
139	36.9	31.4	47.2

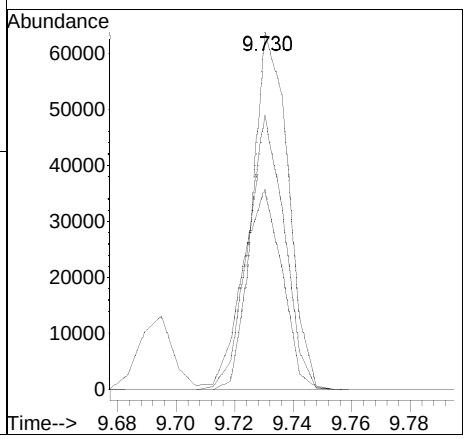


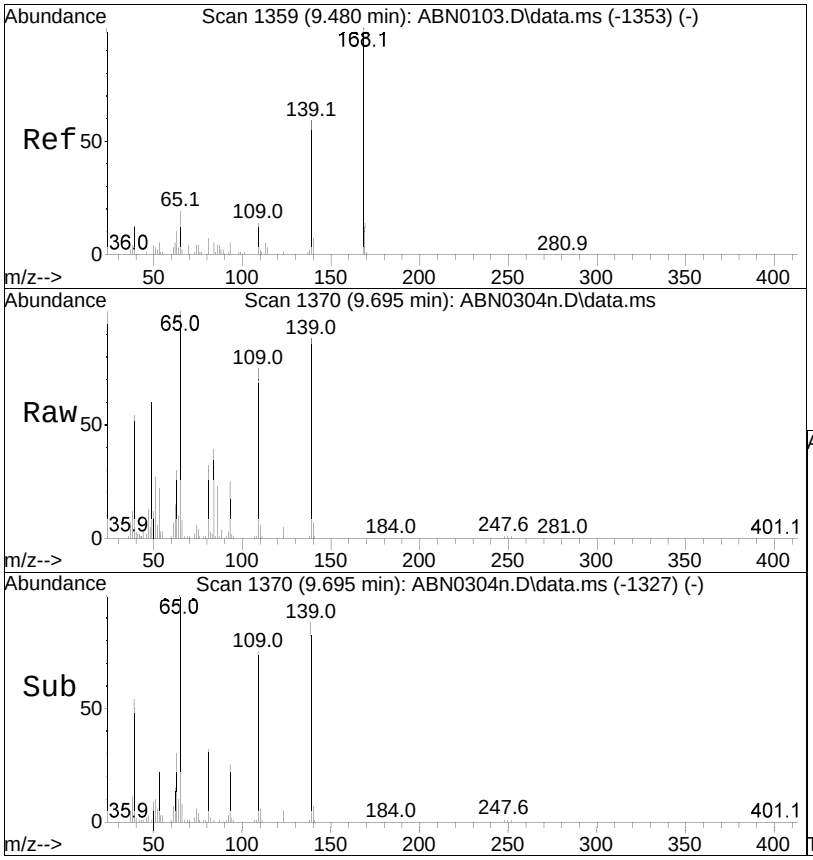


#67
2,4-Dinitrotoluene
Concen: 5.44 ug/ml
RT: 9.730 min Scan# 1376
Delta R.T. 0.000 min
Lab File: ABN0304n.D
Acq: 5 Mar 2024 12:10 am

Tgt Ion:165 Resp: 53330

Ion	Ratio	Lower	Upper
165	100		
89	78.8	72.0	108.0
63	63.8	52.7	79.1

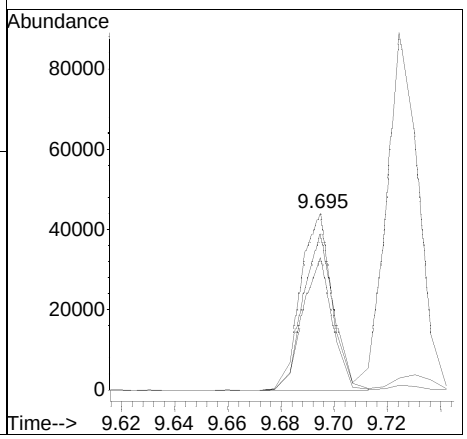


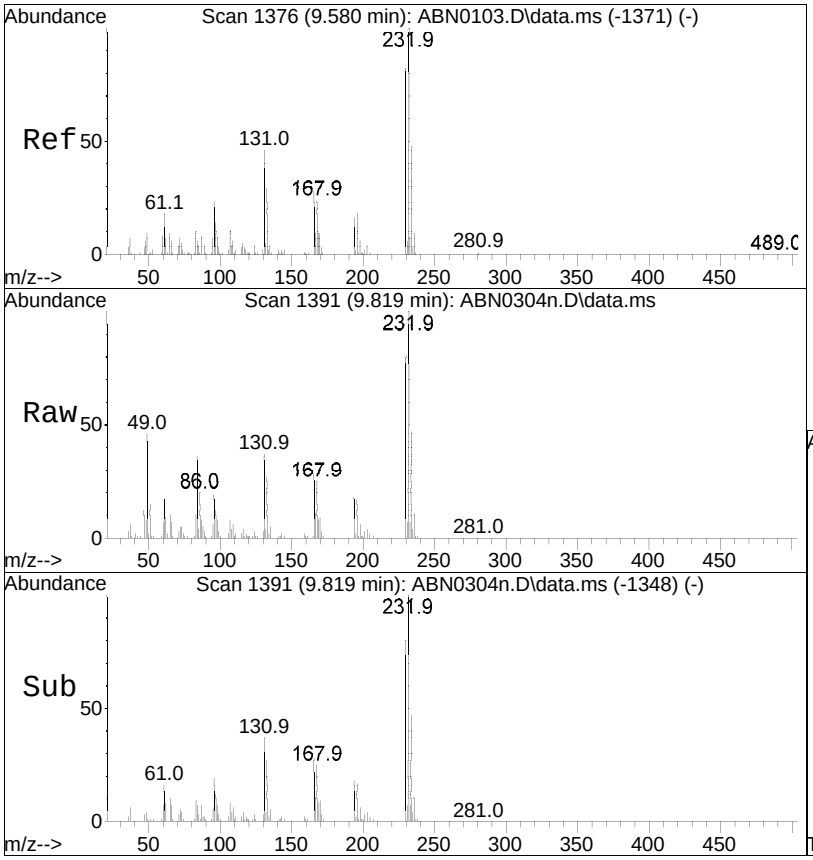


#68
4-Nitrophenol
Concen: 4.92 ug/ml
RT: 9.695 min Scan# 1370
Delta R.T. 0.000 min
Lab File: ABN0304n.D
Acq: 5 Mar 2024 12:10 am

Tgt Ion: 65 Resp: 35794

Ion	Ratio	Lower	Upper
65	100		
109	71.5	47.4	71.2#
139	86.3	76.6	115.0

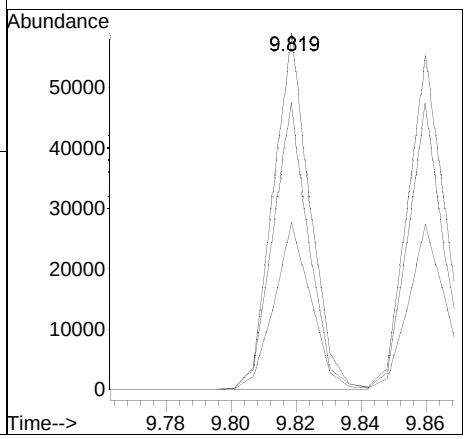


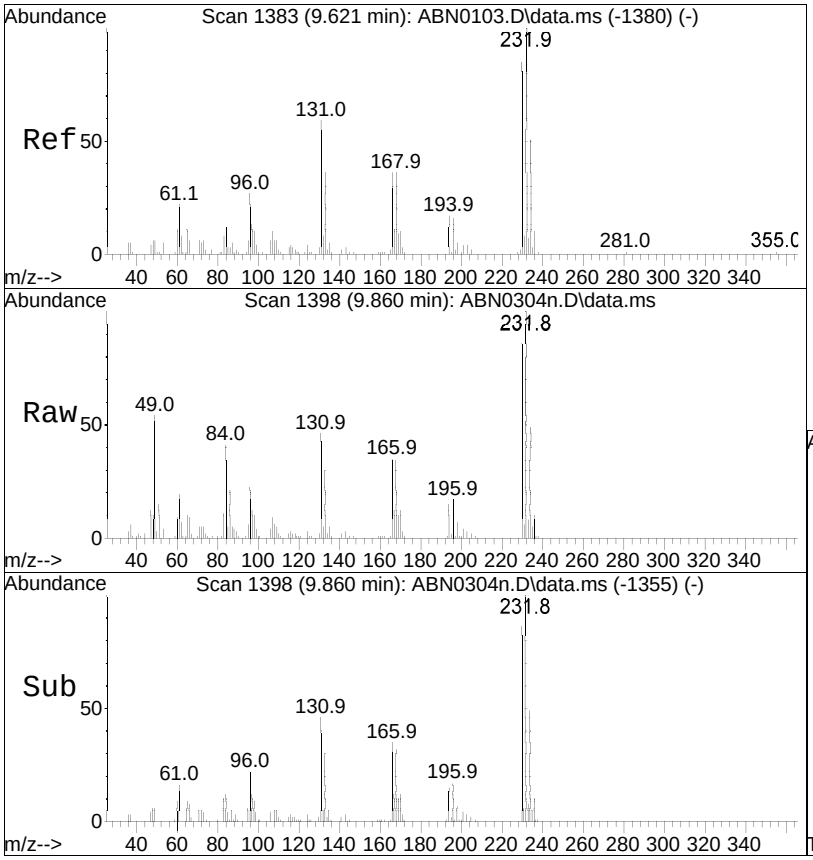


#69
2,3,5,6-Tetrachlorophenol
Concen: 5.33 ug/ml
RT: 9.819 min Scan# 1391
Delta R.T. 0.000 min
Lab File: ABN0304n.D
Acq: 5 Mar 2024 12:10 am

Tgt Ion:232 Resp: 46487

Ion	Ratio	Lower	Upper
232	100		
230	78.2	64.2	96.4
234	46.7	38.1	57.1

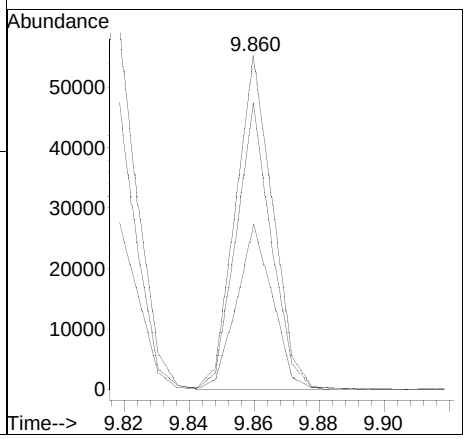


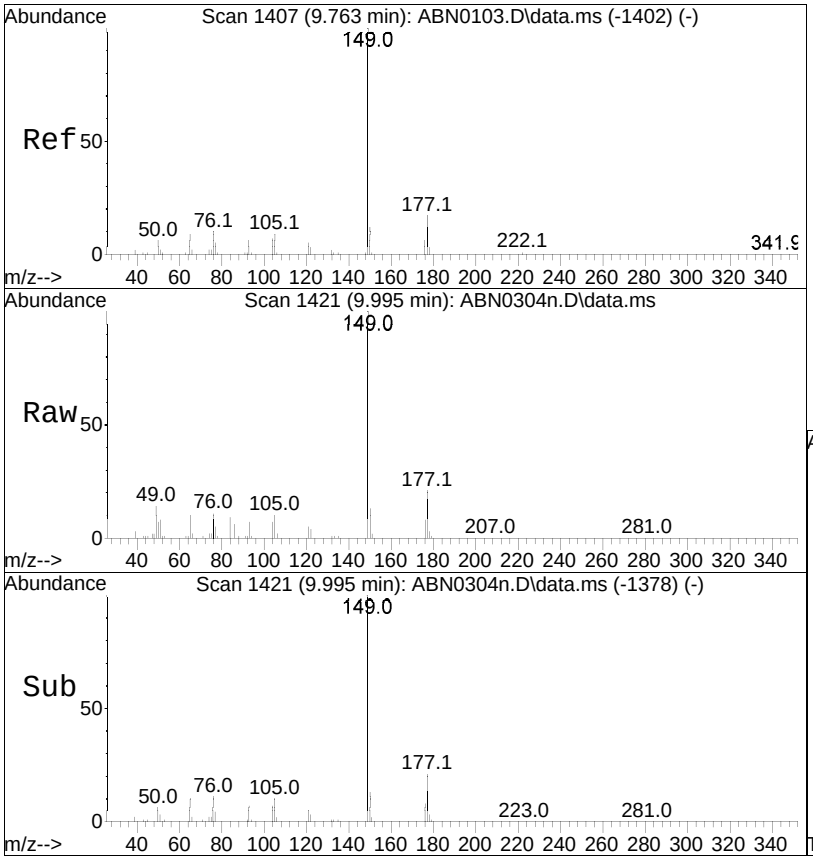


#70
2,3,4,6-Tetrachlorophenol
Concen: 4.87 ug/ml
RT: 9.860 min Scan# 1398
Delta R.T. 0.000 min
Lab File: ABN0304n.D
Acq: 5 Mar 2024 12:10 am

Tgt Ion:232 Resp: 44131

Ion	Ratio	Lower	Upper
232	100		
230	81.3	61.8	92.8
234	47.9	36.2	54.2

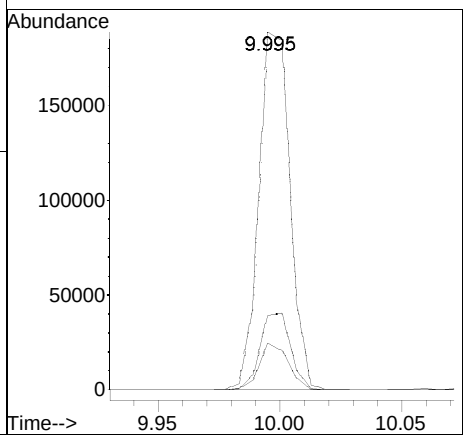


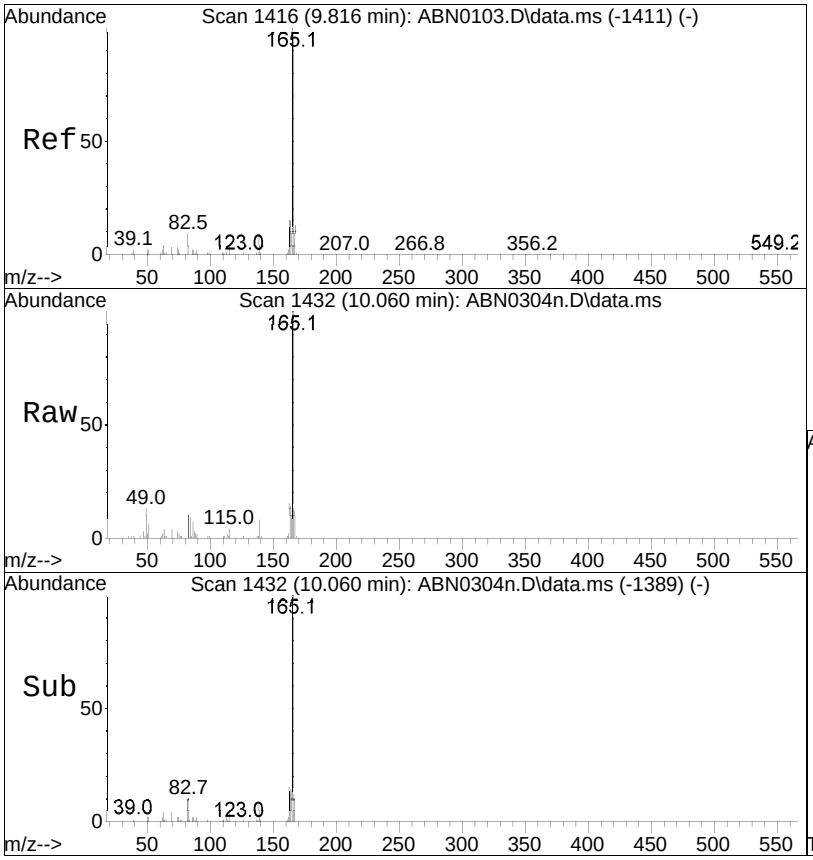


#71
Diethyl phthalate
Concen: 4.36 ug/ml
RT: 9.995 min Scan# 1421
Delta R.T. 0.000 min
Lab File: ABN0304n.D
Acq: 5 Mar 2024 12:10 am

Tgt Ion:149 Resp: 165658

Ion	Ratio	Lower	Upper
149	100		
177	21.2	16.1	24.1
150	12.4	9.4	14.2

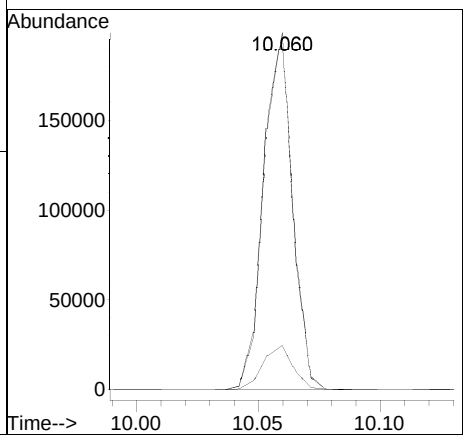


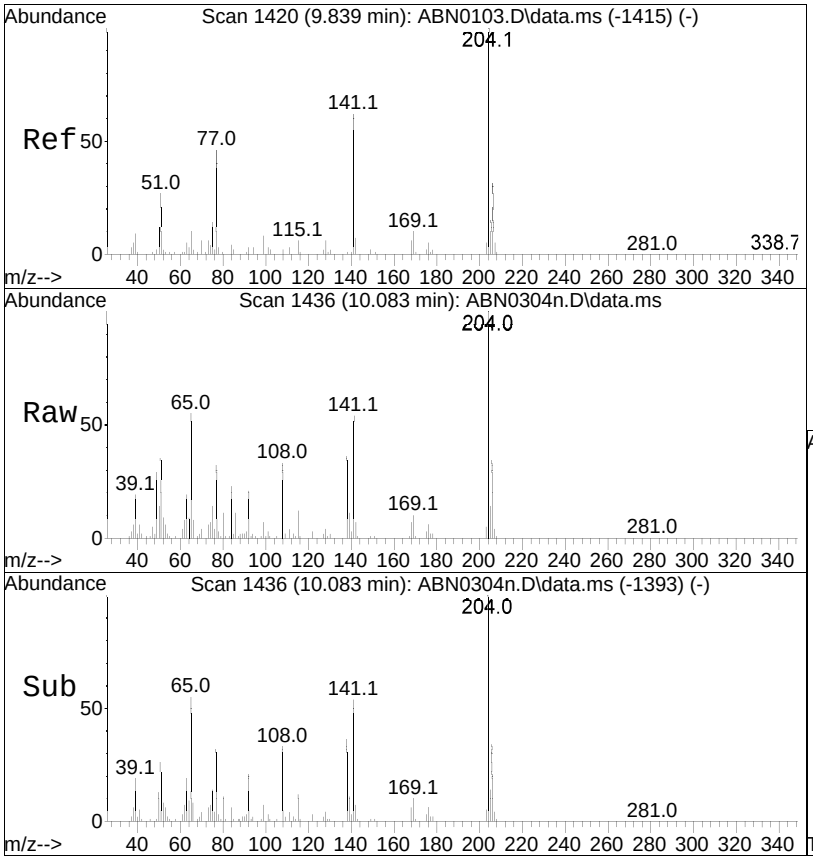


#72
Fluorene
Concen: 4.55 ug/ml
RT: 10.060 min Scan# 1432
Delta R.T. 0.000 min
Lab File: ABN0304n.D
Acq: 5 Mar 2024 12:10 am

Tgt Ion:166 Resp: 163260

Ion	Ratio	Lower	Upper
166	100		
165	99.1	76.2	114.2
167	13.3	10.6	15.8

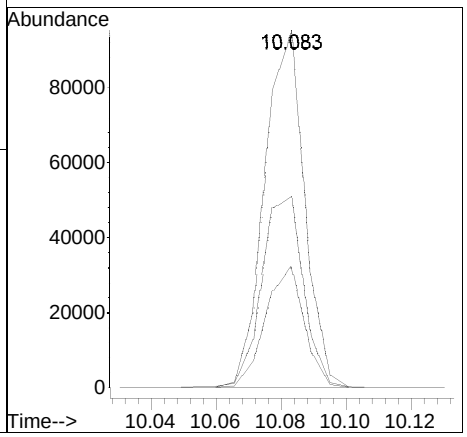


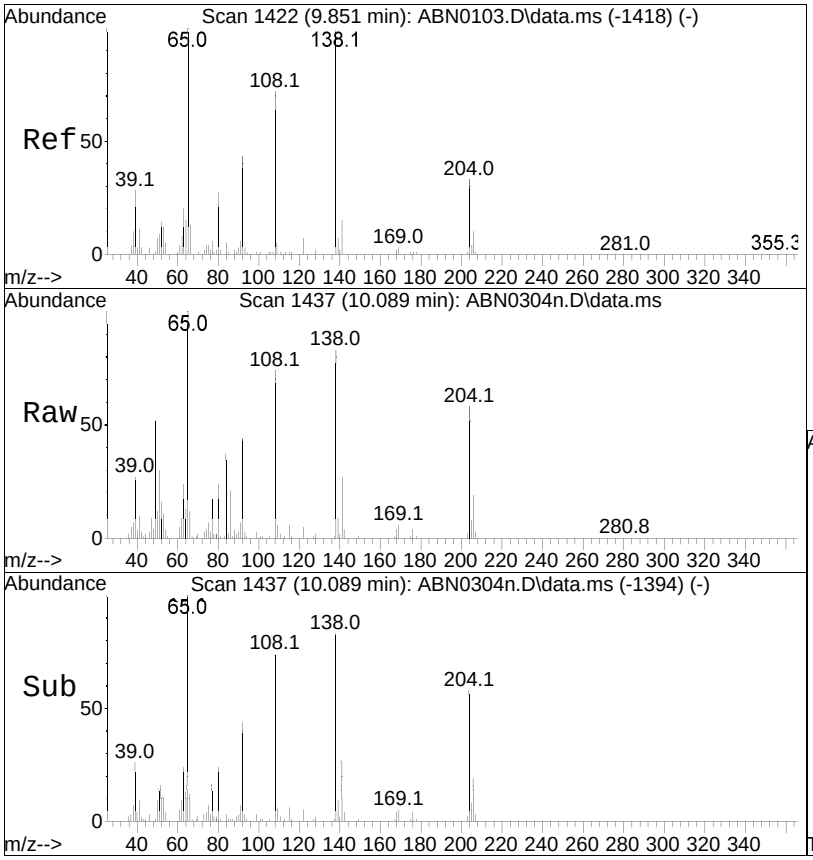


#73
4-Chlorophenyl phenyl ether
Concen: 4.72 ug/ml
RT: 10.083 min Scan# 1436
Delta R.T. 0.000 min
Lab File: ABN0304n.D
Acq: 5 Mar 2024 12:10 am

Tgt Ion:204 Resp: 80875

Ion	Ratio	Lower	Upper
204	100		
206	33.2	25.8	38.6
141	56.1	53.6	80.4

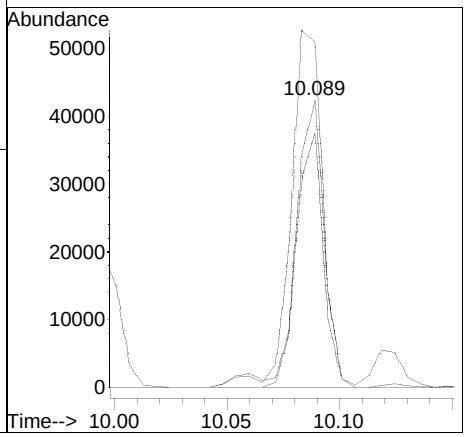


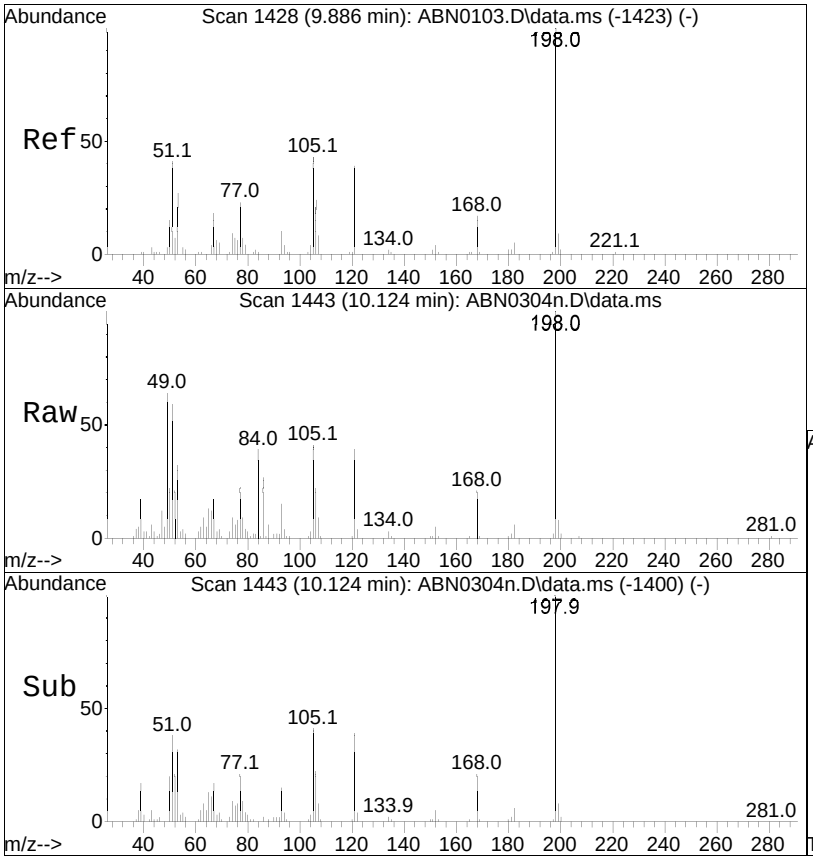


#74
4-Nitroaniline
Concen: 4.84 ug/ml
RT: 10.089 min Scan# 1437
Delta R.T. 0.000 min
Lab File: ABN0304n.D
Acq: 5 Mar 2024 12:10 am

Tgt Ion:138 Resp: 37514

Ion	Ratio	Lower	Upper
138	100		
108	82.7	52.1	78.1#
65	136.7	115.0	172.6

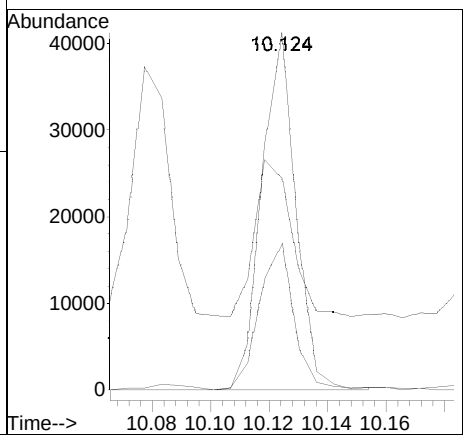


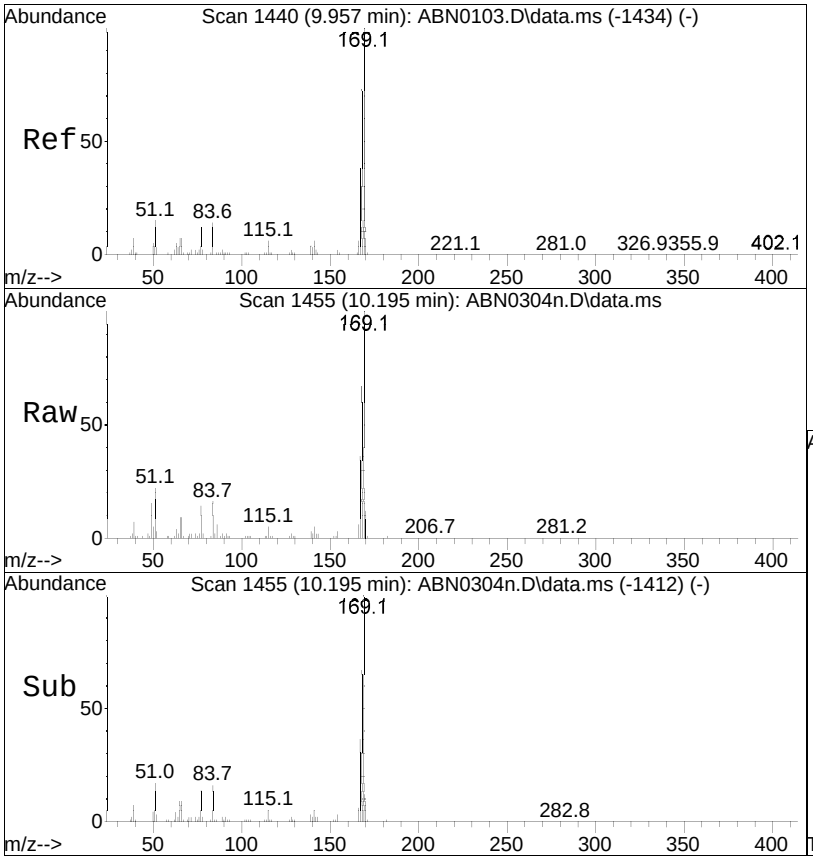


#75
4,6-Dinitro-o-cresol
Concen: 6.94 ug/ml
RT: 10.124 min Scan# 1443
Delta R.T. 0.000 min
Lab File: ABN0304n.D
Acq: 5 Mar 2024 12:10 am

Tgt Ion:198 Resp: 33344

Ion	Ratio	Lower	Upper
198	100		
51	50.7	76.0	114.0#
105	42.3	45.6	68.4#

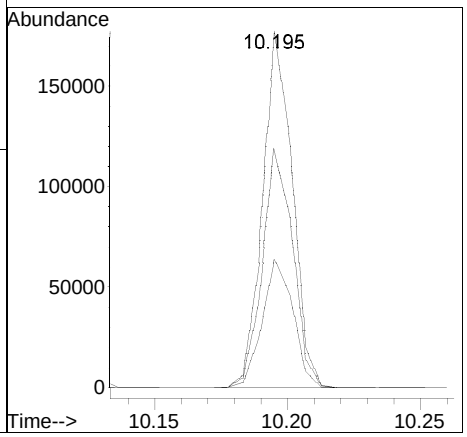


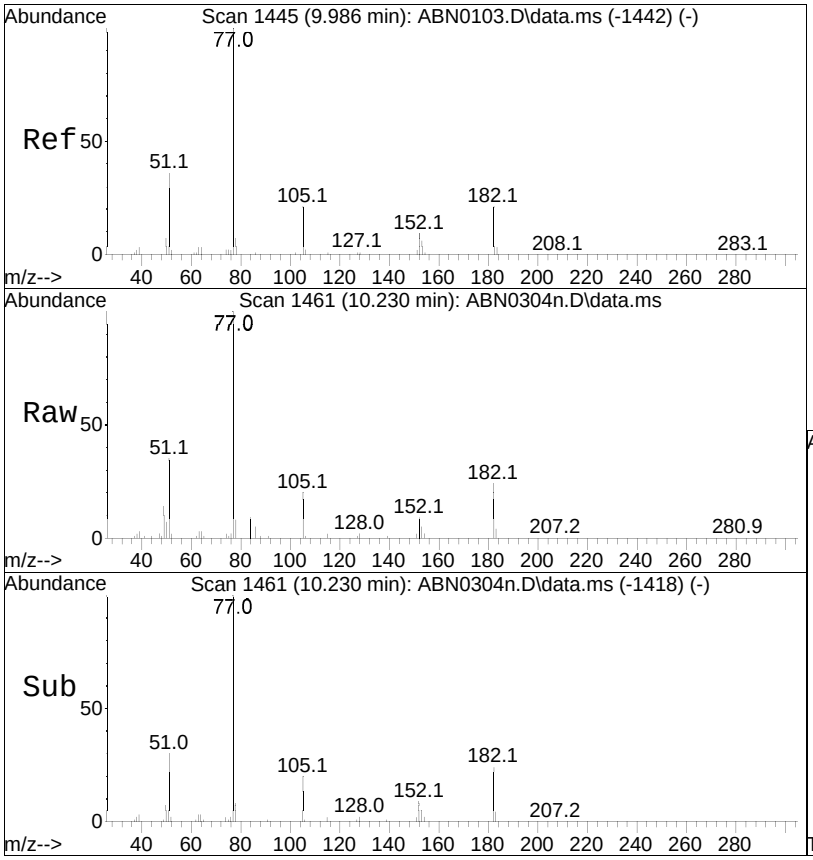


#76
NDPA/DPA
Concen: 4.53 ug/ml
RT: 10.195 min Scan# 1455
Delta R.T. 0.000 min
Lab File: ABN0304n.D
Acq: 5 Mar 2024 12:10 am

Tgt Ion:169 Resp: 136851

Ion	Ratio	Lower	Upper
169	100		
168	68.9	54.0	81.0
167	37.6	28.6	42.8

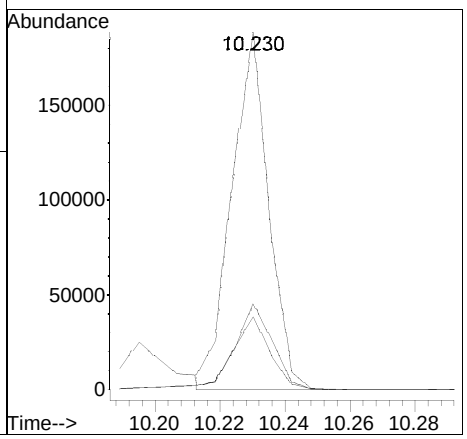


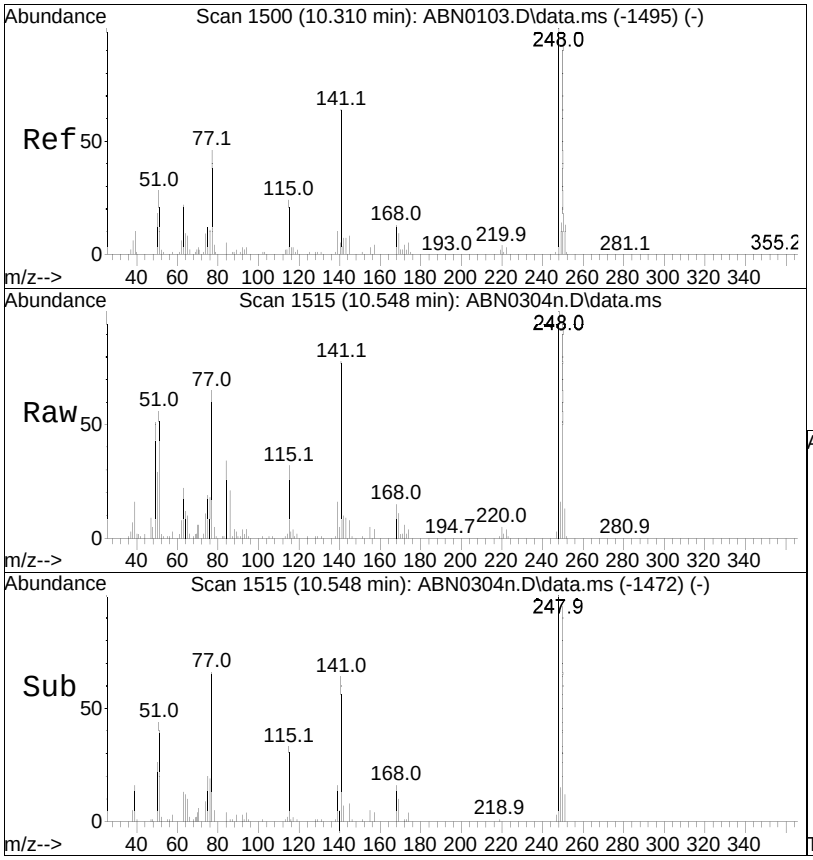


#77
Azobenzene
Concen: 4.16 ug/ml
RT: 10.230 min Scan# 1461
Delta R.T. 0.000 min
Lab File: ABN0304n.D
Acq: 5 Mar 2024 12:10 am

Tgt Ion: 77 Resp: 147440

Ion	Ratio	Lower	Upper
77	100		
182	25.9	17.4	26.2
105	22.6	15.4	23.2

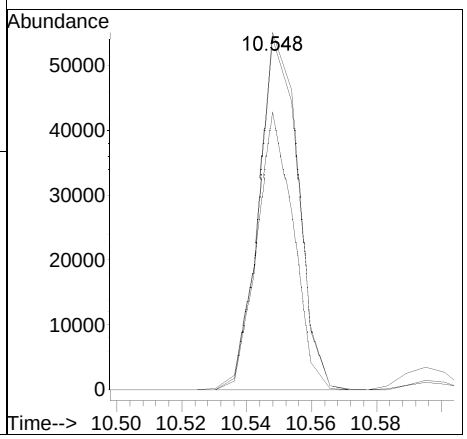


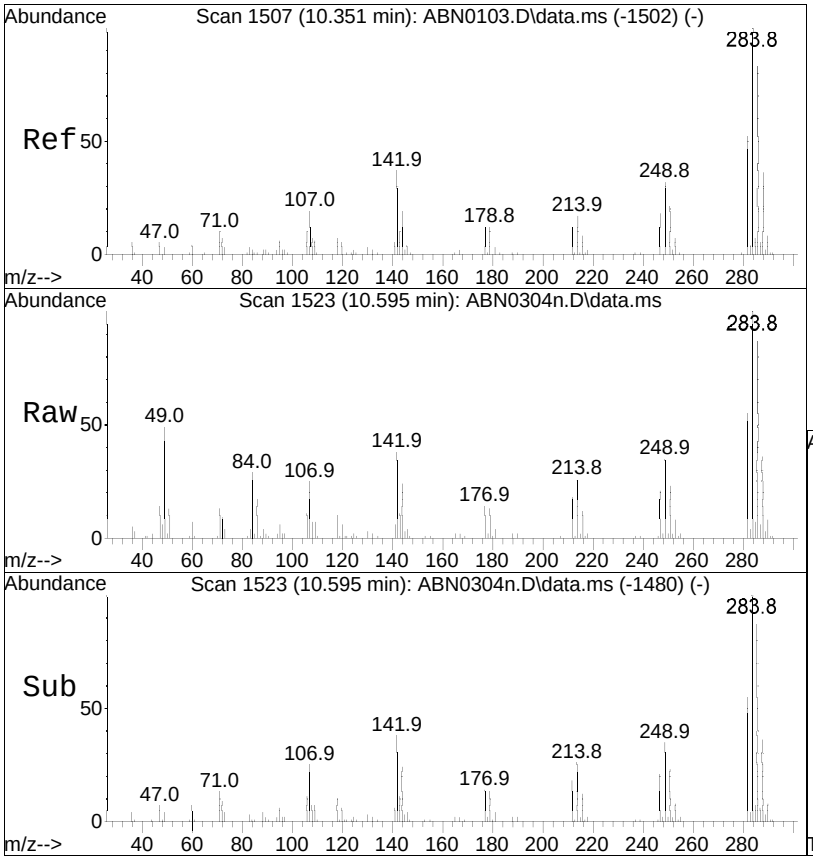


#79
4-Bromophenyl phenyl ether
Concen: 4.65 ug/ml
RT: 10.548 min Scan# 1515
Delta R.T. 0.000 min
Lab File: ABN0304n.D
Acq: 5 Mar 2024 12:10 am

Tgt Ion:248 Resp: 46363

Ion	Ratio	Lower	Upper
248	100		
141	73.3	76.6	114.8#
250	97.2	77.3	115.9

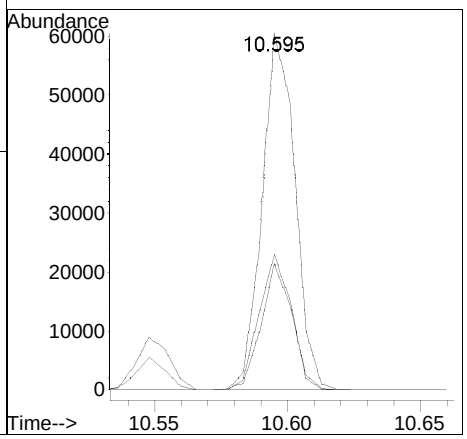


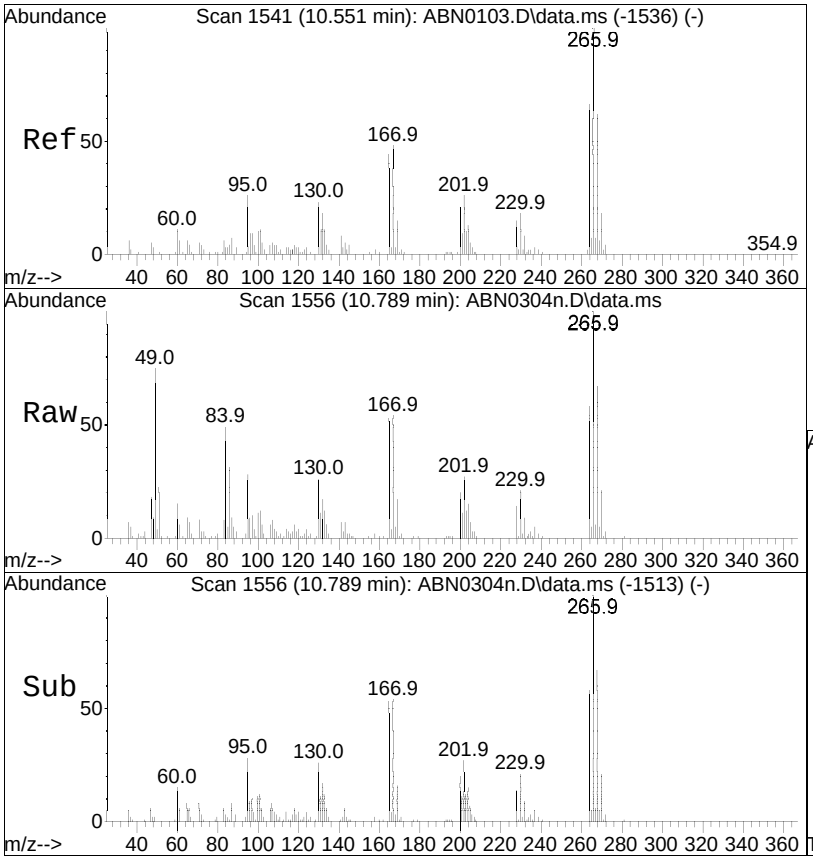


#80
Hexachlorobenzene
Concen: 4.46 ug/ml
RT: 10.595 min Scan# 1523
Delta R.T. 0.000 min
Lab File: ABN0304n.D
Acq: 5 Mar 2024 12:10 am

Tgt Ion:284 Resp: 51682

Ion	Ratio	Lower	Upper
284	100		
142	37.3	41.9	62.9#
249	33.5	24.1	36.1

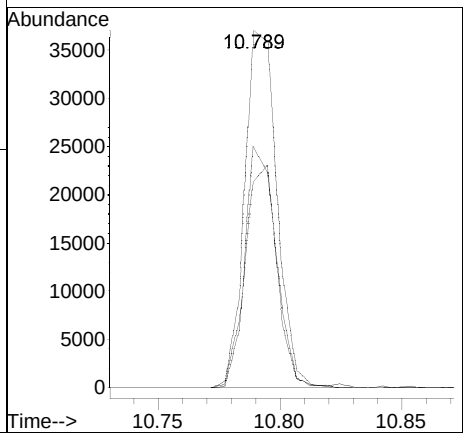


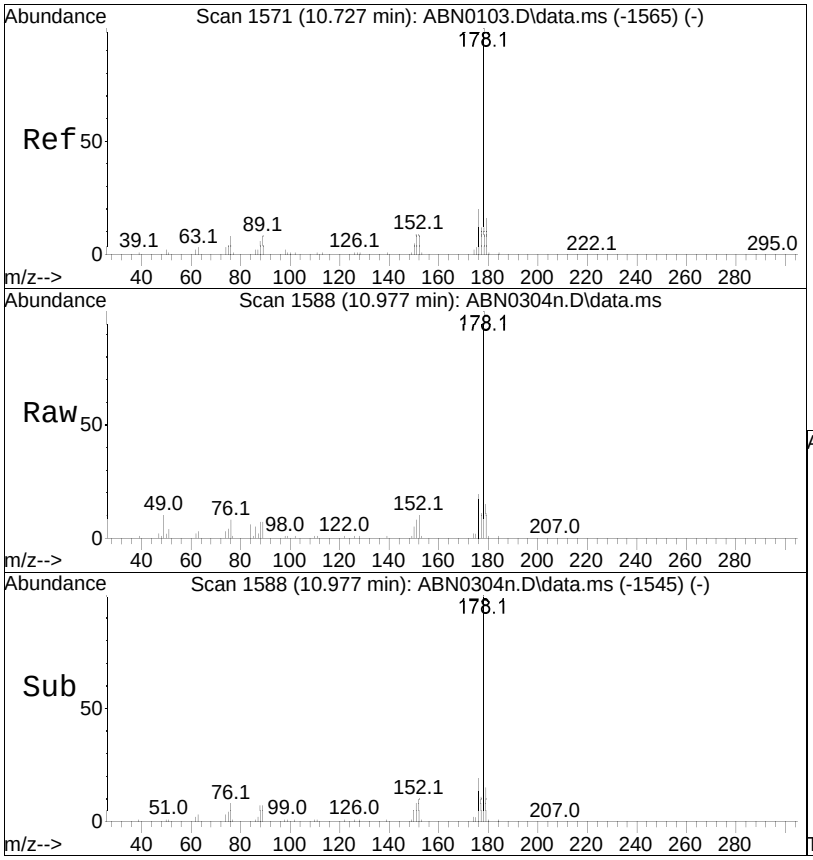


#81
Pentachlorophenol
Concen: 5.00 ug/ml
RT: 10.789 min Scan# 1556
Delta R.T. 0.000 min
Lab File: ABN0304n.D
Acq: 5 Mar 2024 12:10 am

Tgt Ion:266 Resp: 34407

Ion	Ratio	Lower	Upper
266	100		
264	61.9	49.7	74.5
268	64.7	50.5	75.7

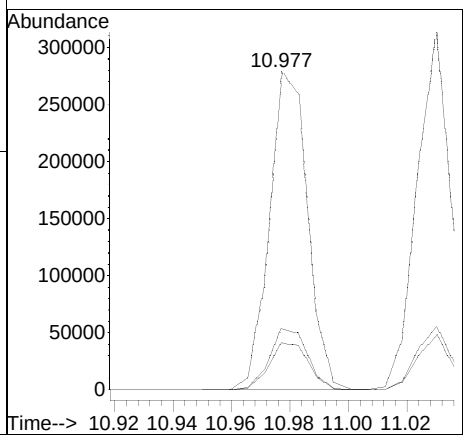


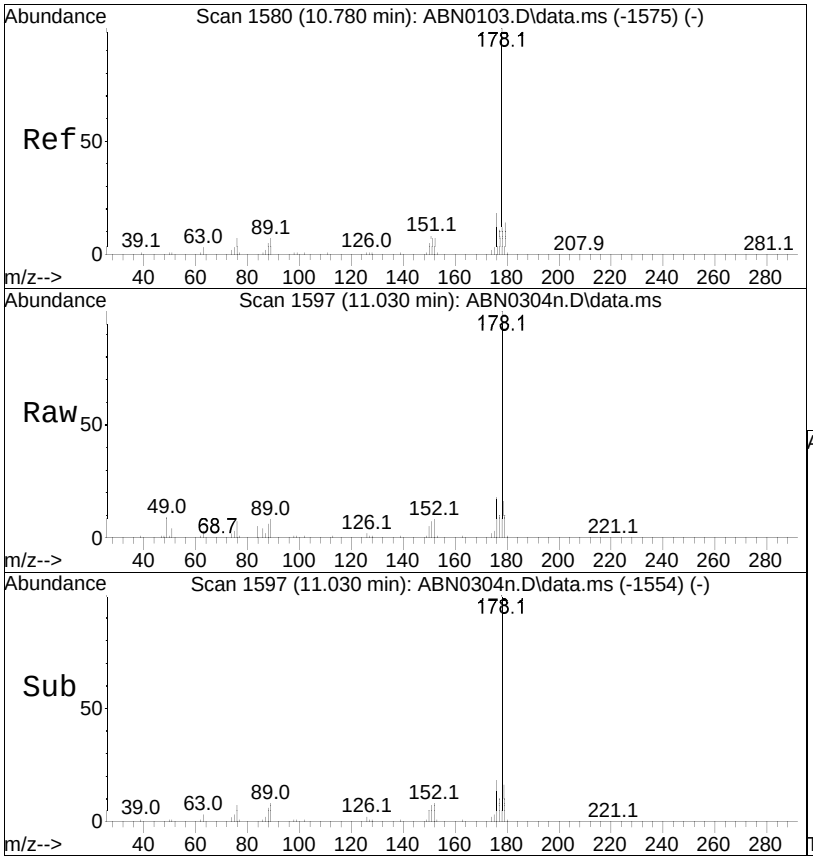


#88
Phenanthrene
Concen: 4.08 ug/ml
RT: 10.977 min Scan# 1588
Delta R.T. 0.000 min
Lab File: ABN0304n.D
Acq: 5 Mar 2024 12:10 am

Tgt Ion:178 Resp: 252194

Ion	Ratio	Lower	Upper
178	100		
179	15.3	12.2	18.2
176	19.4	15.4	23.2

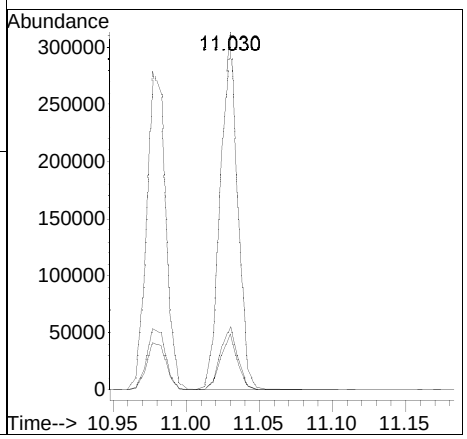


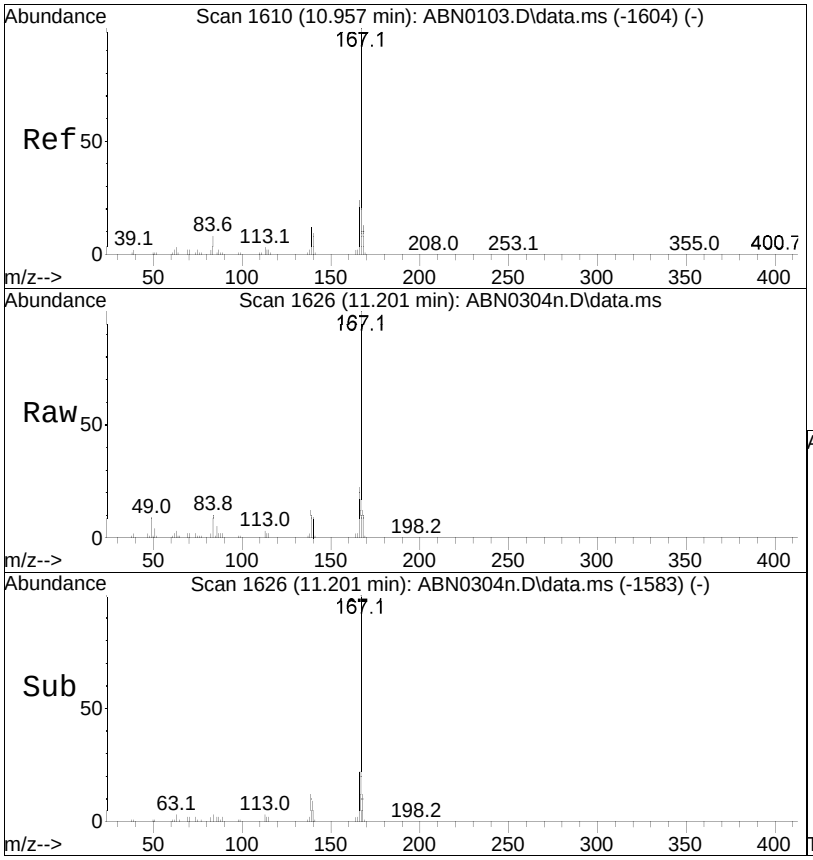


#89
Anthracene
Concen: 4.18 ug/ml
RT: 11.030 min Scan# 1597
Delta R.T. 0.000 min
Lab File: ABN0304n.D
Acq: 5 Mar 2024 12:10 am

Tgt Ion:178 Resp: 257430

Ion	Ratio	Lower	Upper
178	100		
179	15.2	12.0	18.0
176	18.0	14.6	22.0

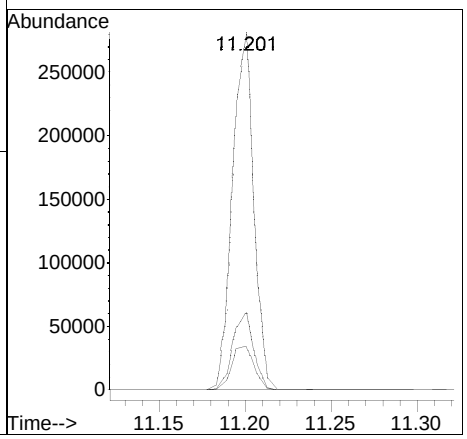


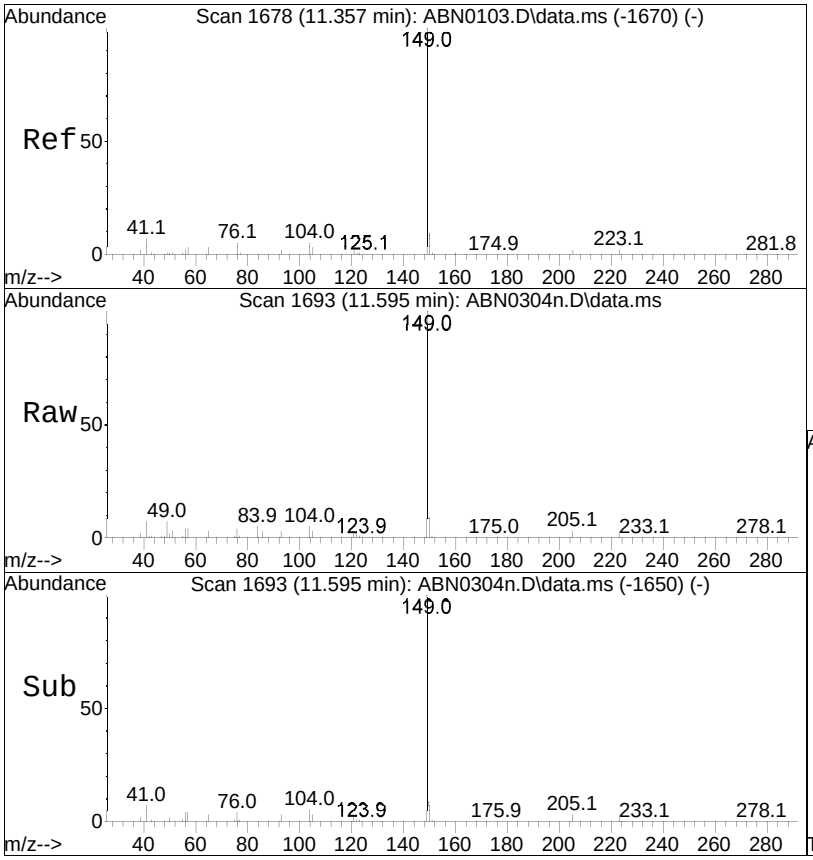


#90
Carbazole
Concen: 4.25 ug/ml
RT: 11.201 min Scan# 1626
Delta R.T. 0.000 min
Lab File: ABN0304n.D
Acq: 5 Mar 2024 12:10 am

Tgt Ion:167 Resp: 239253

Ion	Ratio	Lower	Upper
167	100		
168	13.1	10.6	15.8
166	21.4	17.4	26.0

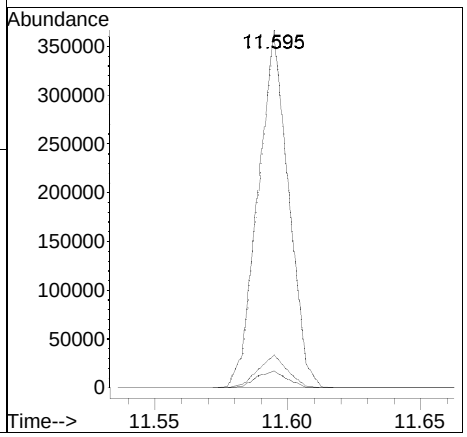


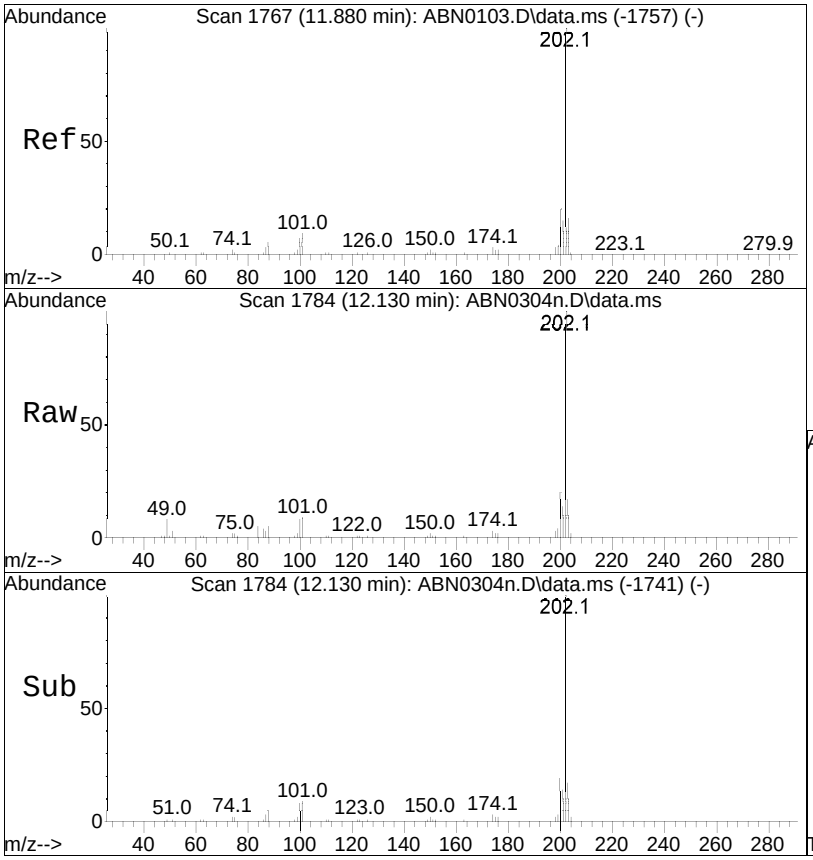


#91
Di-n-butylphthalate
Concen: 4.00 ug/ml
RT: 11.595 min Scan# 1693
Delta R.T. 0.000 min
Lab File: ABN0304n.D
Acq: 5 Mar 2024 12:10 am

Tgt Ion:149 Resp: 287881

Ion	Ratio	Lower	Upper
149	100		
150	9.0	7.0	10.6
104	4.9	4.5	6.7

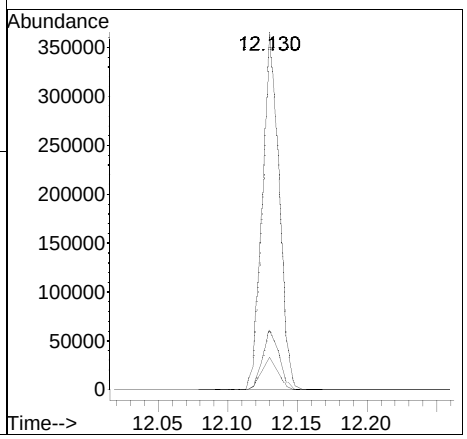


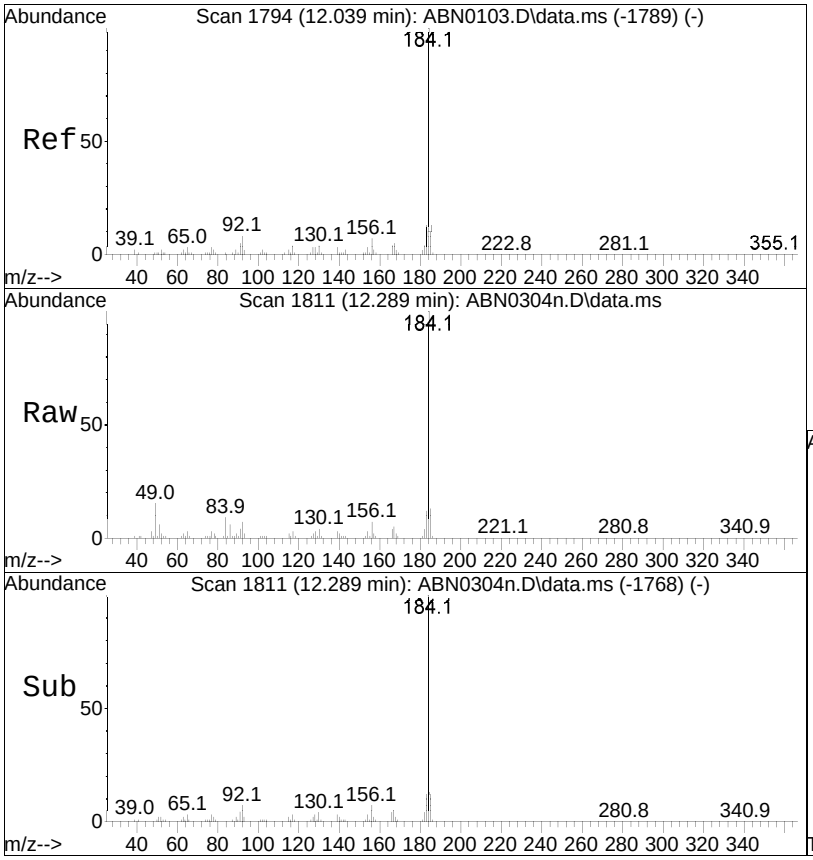


#92
Fluoranthene
Concen: 4.56 ug/ml
RT: 12.130 min Scan# 1784
Delta R.T. 0.000 min
Lab File: ABN0304n.D
Acq: 5 Mar 2024 12:10 am

Tgt Ion:202 Resp: 301313

Ion	Ratio	Lower	Upper
202	100		
101	9.2	13.5	20.3#
203	17.1	13.6	20.4

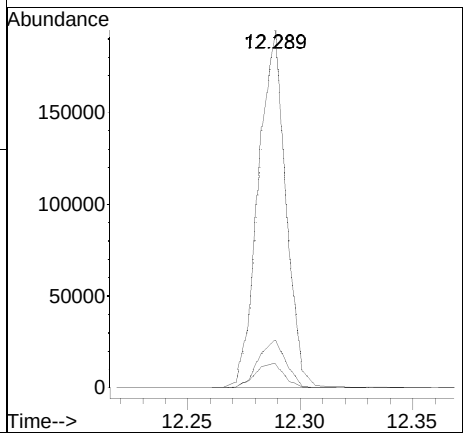


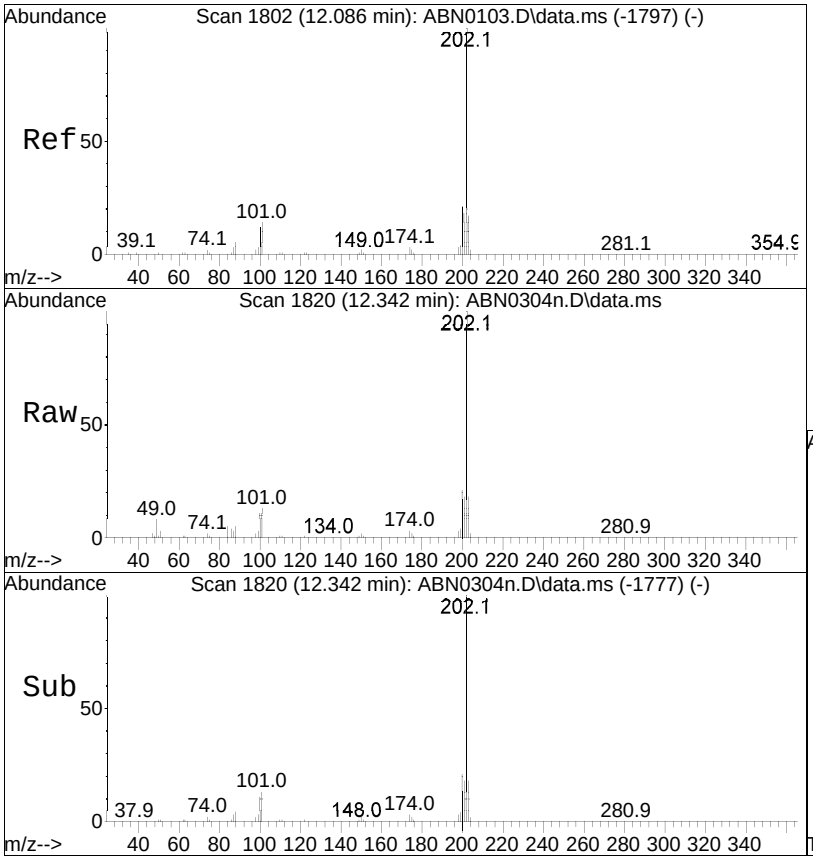


#93
Benzidine
Concen: 3.73 ug/ml
RT: 12.289 min Scan# 1811
Delta R.T. 0.000 min
Lab File: ABN0304n.D
Acq: 5 Mar 2024 12:10 am

Tgt Ion:184 Resp: 163145

Ion	Ratio	Lower	Upper
184	100		
92	7.4	9.1	13.7#
185	13.7	11.1	16.7

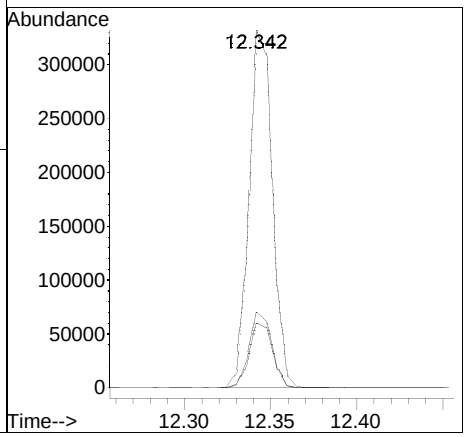


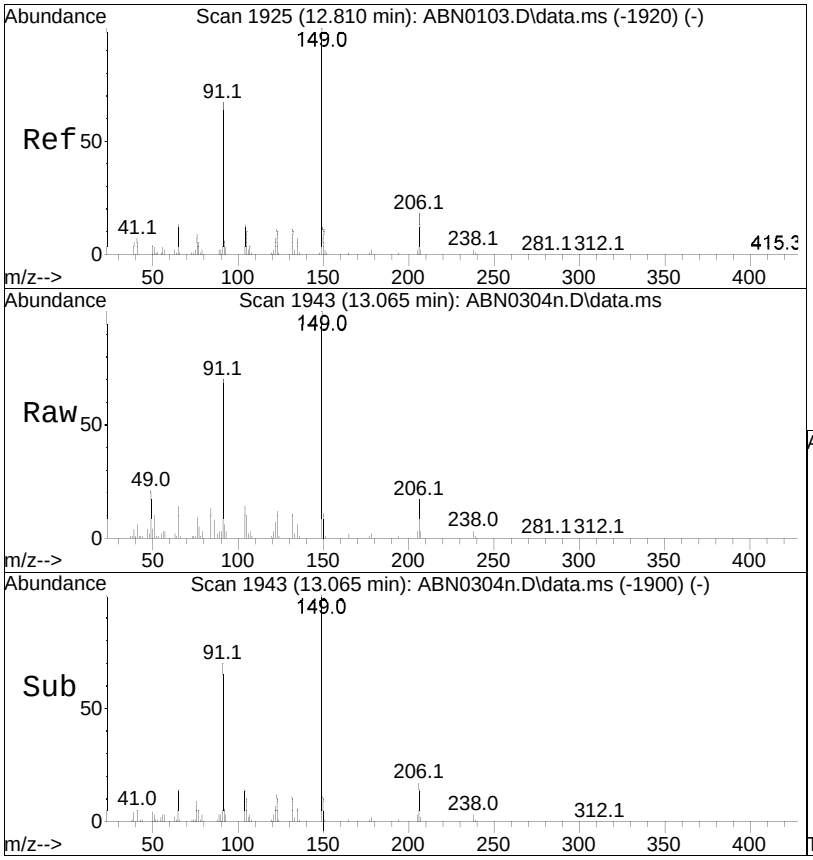


#94
Pyrene
Concen: 4.44 ug/ml
RT: 12.342 min Scan# 1820
Delta R.T. 0.000 min
Lab File: ABN0304n.D
Acq: 5 Mar 2024 12:10 am

Tgt Ion:202 Resp: 310715

Ion	Ratio	Lower	Upper
202	100		
200	20.7	16.7	25.1
203	18.3	14.2	21.4

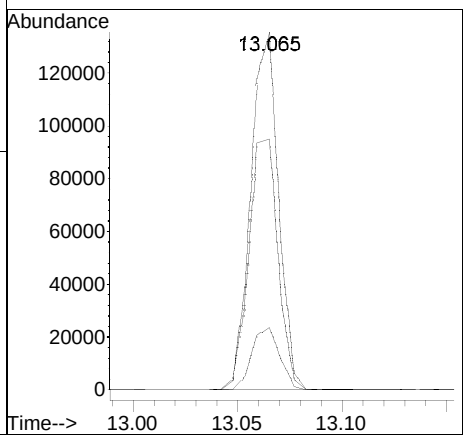


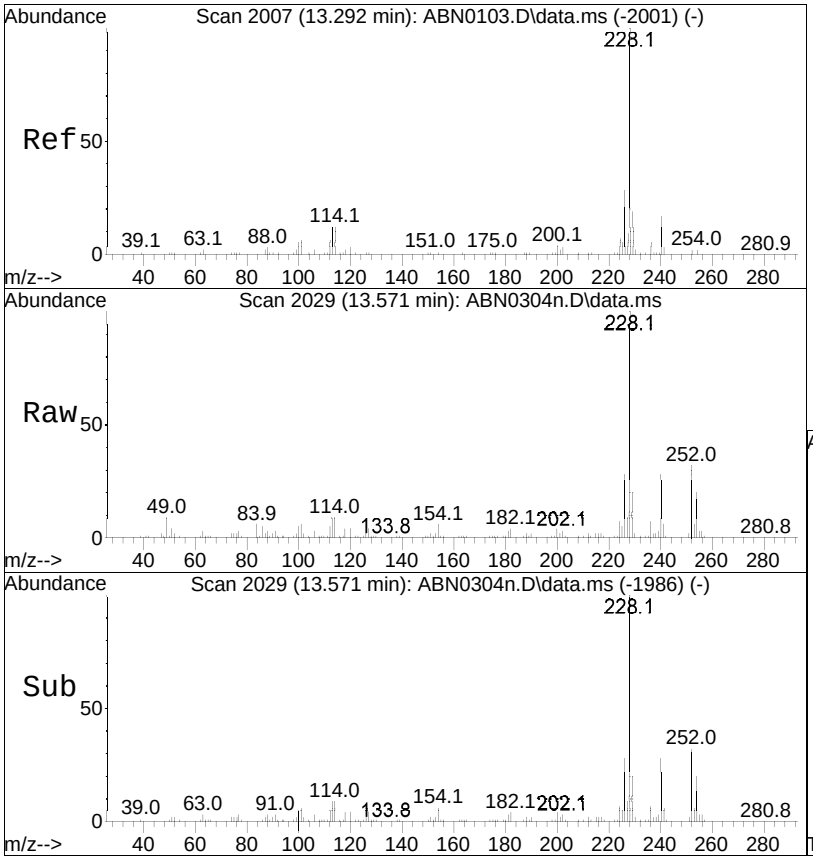


#96
Butyl benzyl phthalate
Concen: 4.01 ug/ml
RT: 13.065 min Scan# 1943
Delta R.T. 0.000 min
Lab File: ABN0304n.D
Acq: 5 Mar 2024 12:10 am

Tgt Ion:149 Resp: 123229

Ion	Ratio	Lower	Upper
149	100		
91	74.0	63.3	94.9
206	17.9	13.9	20.9

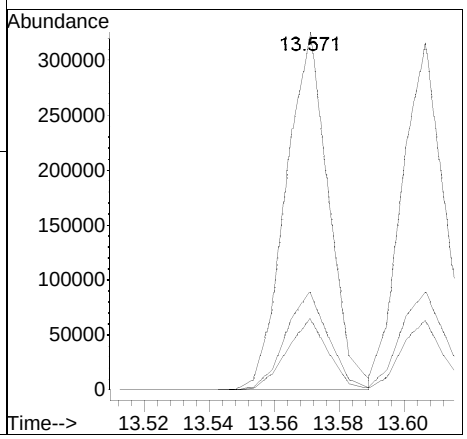


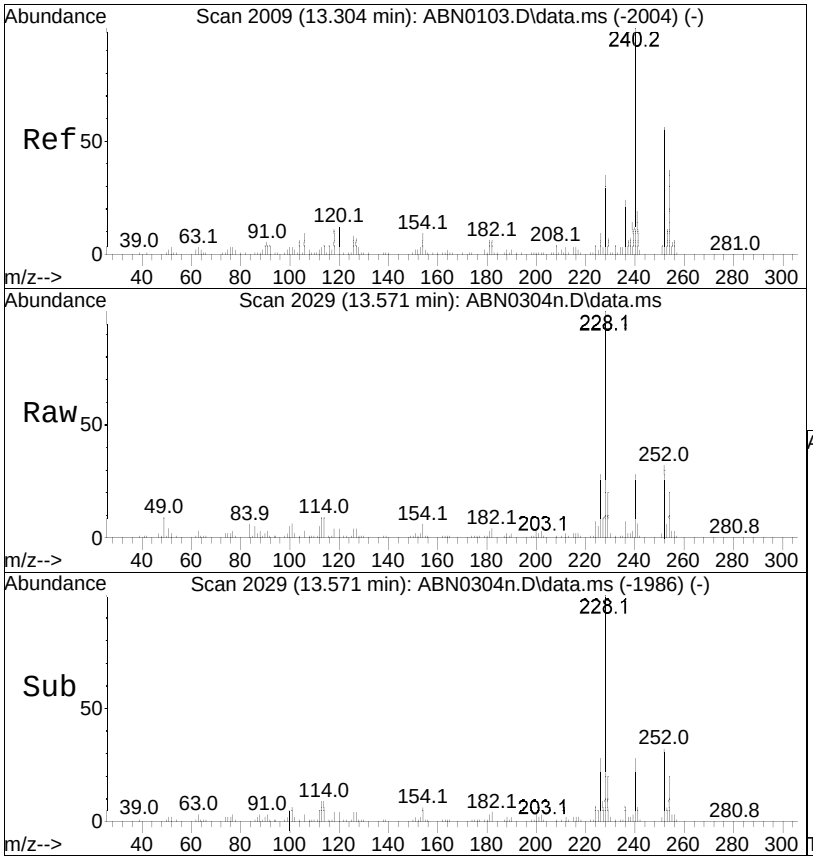


#104
Benzo(a)anthracene
Concen: 4.35 ug/ml
RT: 13.571 min Scan# 2029
Delta R.T. 0.000 min
Lab File: ABN0304n.D
Acq: 5 Mar 2024 12:10 am

Tgt Ion:228 Resp: 299357

Ion	Ratio	Lower	Upper
228	100		
226	27.6	22.2	33.4
229	19.5	15.6	23.4

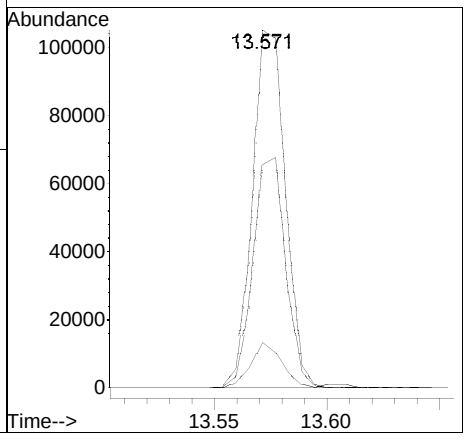


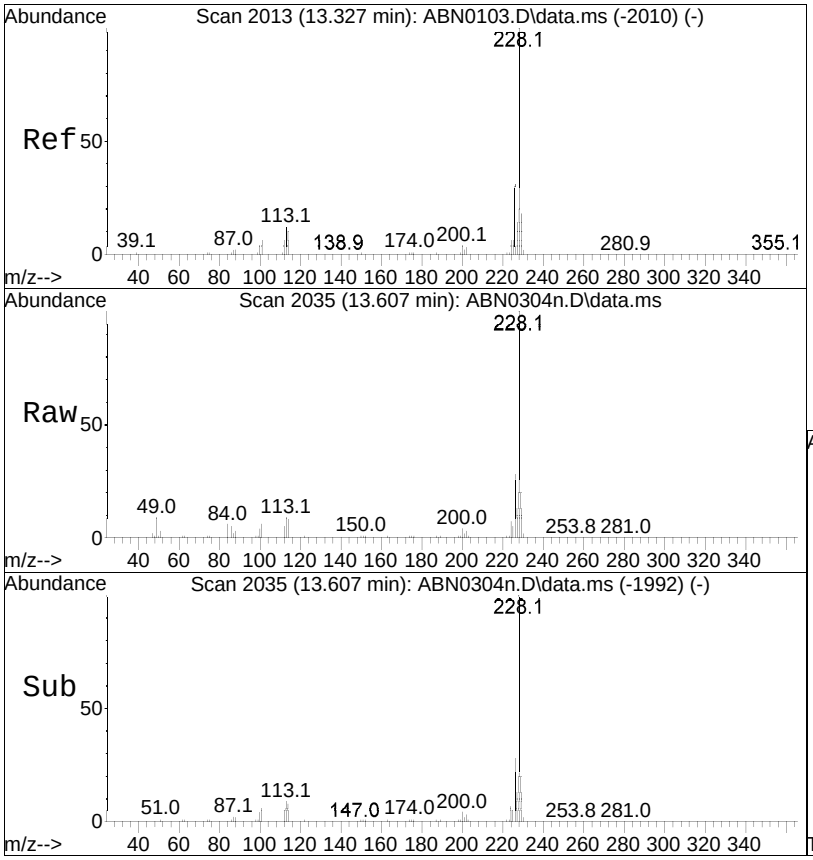


#105
3,3'-Dichlorobenzidine
Concen: 4.34 ug/ml
RT: 13.571 min Scan# 2029
Delta R.T. 0.000 min
Lab File: ABN0304n.D
Acq: 5 Mar 2024 12:10 am

Tgt Ion:252 Resp: 106253

Ion	Ratio	Lower	Upper
252	100		
126	12.2	14.5	21.7#
254	64.3	51.2	76.8

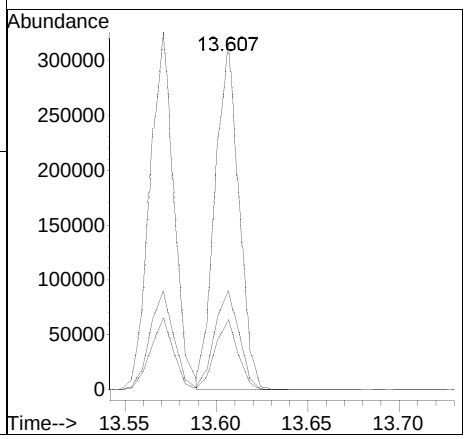


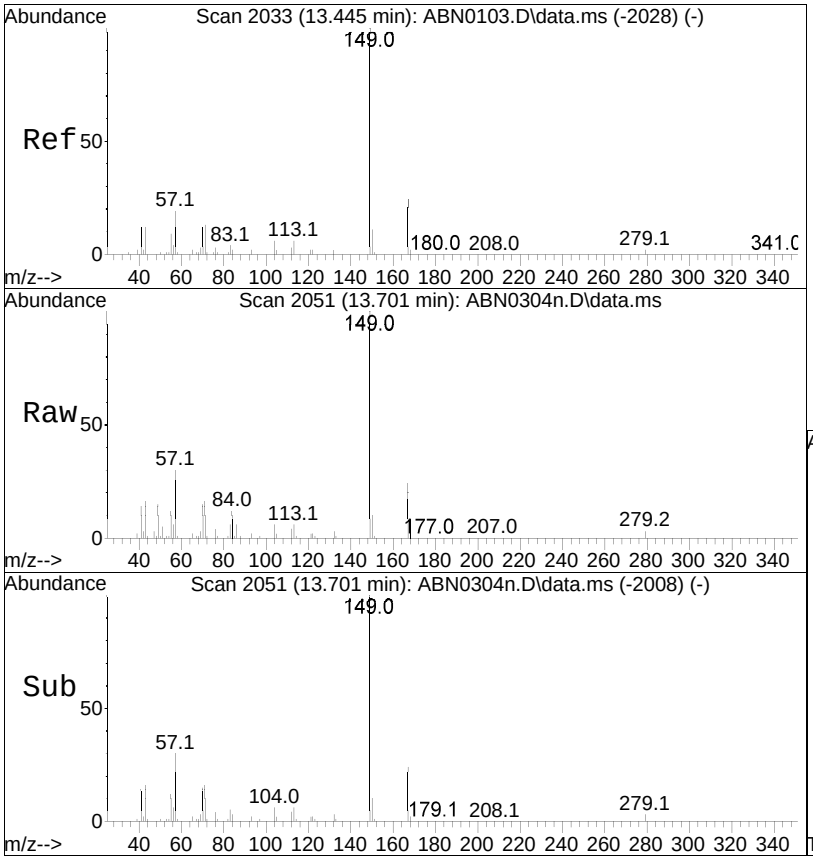


#106
Chrysene
Concen: 4.50 ug/ml
RT: 13.607 min Scan# 2035
Delta R.T. 0.000 min
Lab File: ABN0304n.D
Acq: 5 Mar 2024 12:10 am

Tgt Ion:228 Resp: 286915

Ion	Ratio	Lower	Upper
228	100		
226	29.3	24.0	36.0
229	19.5	15.8	23.8

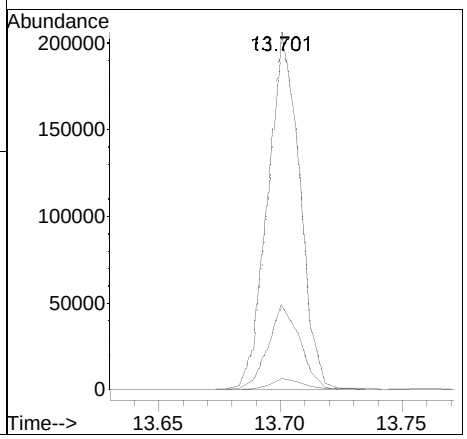


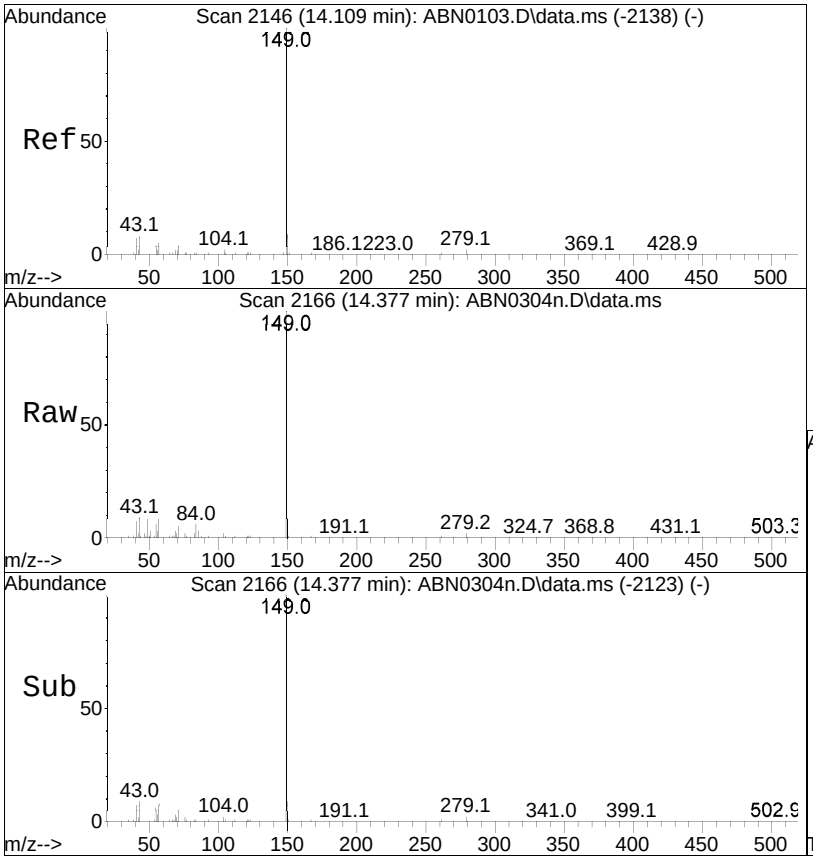


#107
Bis(2-ethylhexyl)phthalate
Concen: 4.04 ug/ml
RT: 13.701 min Scan# 2051
Delta R.T. 0.000 min
Lab File: ABN0304n.D
Acq: 5 Mar 2024 12:10 am

Tgt Ion:149 Resp: 186273

Ion	Ratio	Lower	Upper
149	100		
167	23.7	22.1	33.1
279	3.2	3.0	4.4

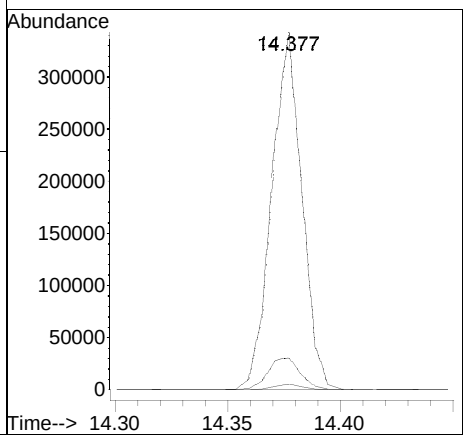


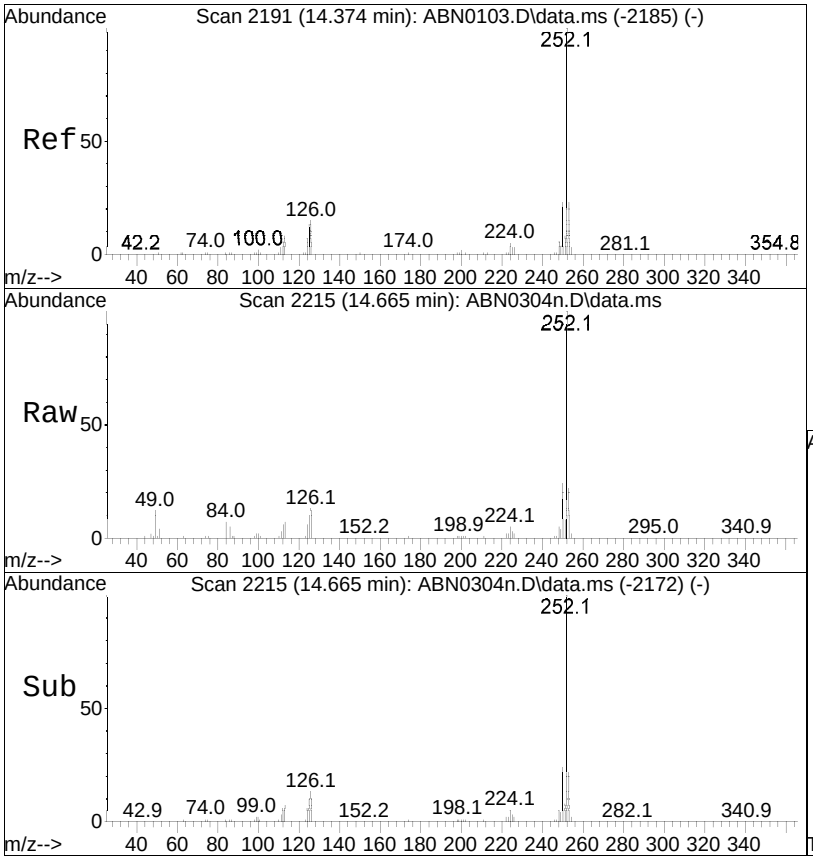


#108
Di-n-octylphthalate
Concen: 4.06 ug/ml
RT: 14.377 min Scan# 2166
Delta R.T. 0.000 min
Lab File: ABN0304n.D
Acq: 5 Mar 2024 12:10 am

Tgt Ion:149 Resp: 315339

Ion	Ratio	Lower	Upper
149	100		
43	9.7	18.8	28.2#
167	1.4	1.3	1.9

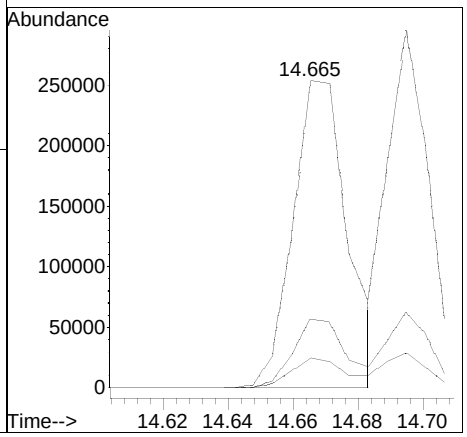


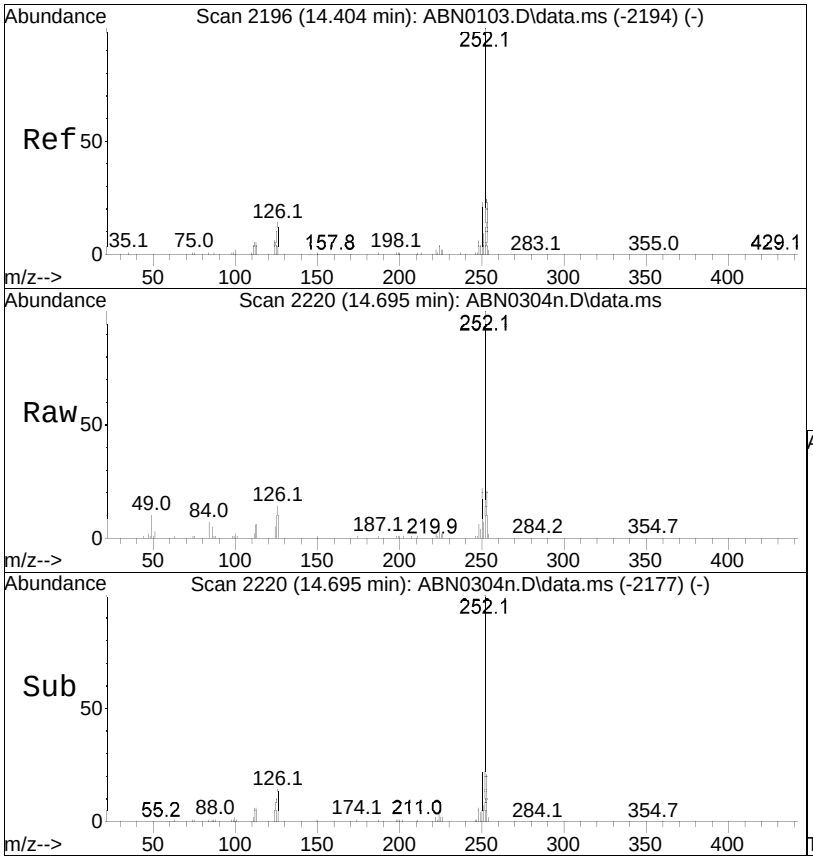


#109
Benzo(b)fluoranthene
Concen: 4.52 ug/ml
RT: 14.665 min Scan# 2215
Delta R.T. 0.000 min
Lab File: ABN0304n.D
Acq: 5 Mar 2024 12:10 am

Tgt Ion:252 Resp: 296909

Ion	Ratio	Lower	Upper
252	100		
125	10.0	13.3	19.9#
253	22.0	17.1	25.7

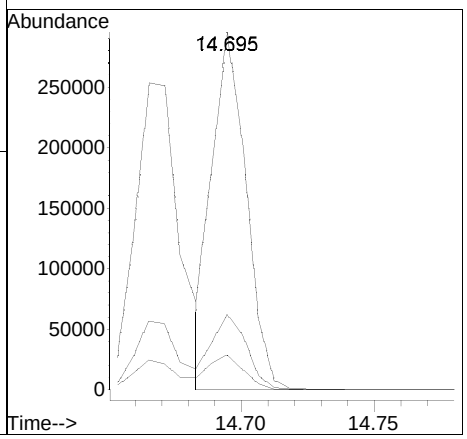


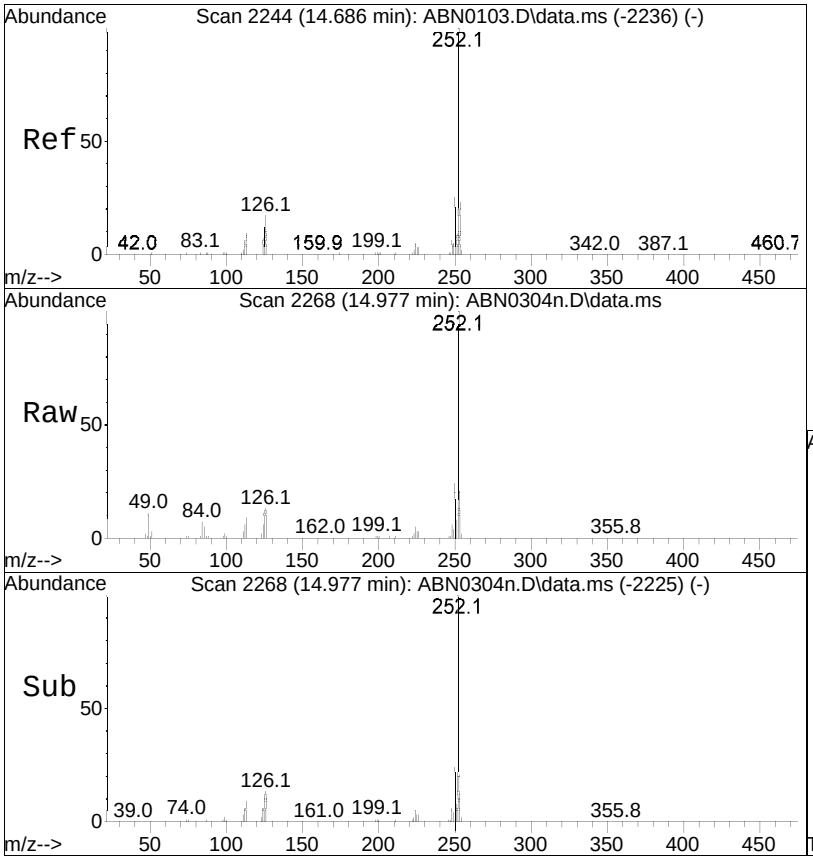


#110
Benzo(k)fluoranthene
Concen: 4.19 ug/ml
RT: 14.695 min Scan# 2220
Delta R.T. 0.000 min
Lab File: ABN0304n.D
Acq: 5 Mar 2024 12:10 am

Tgt Ion:252 Resp: 263453

Ion	Ratio	Lower	Upper
252	100		
125	9.8	13.0	19.6#
253	21.5	16.8	25.2

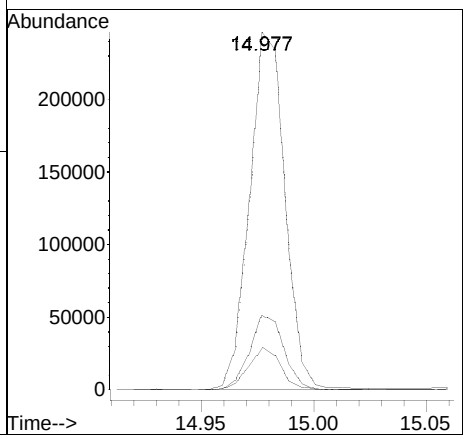


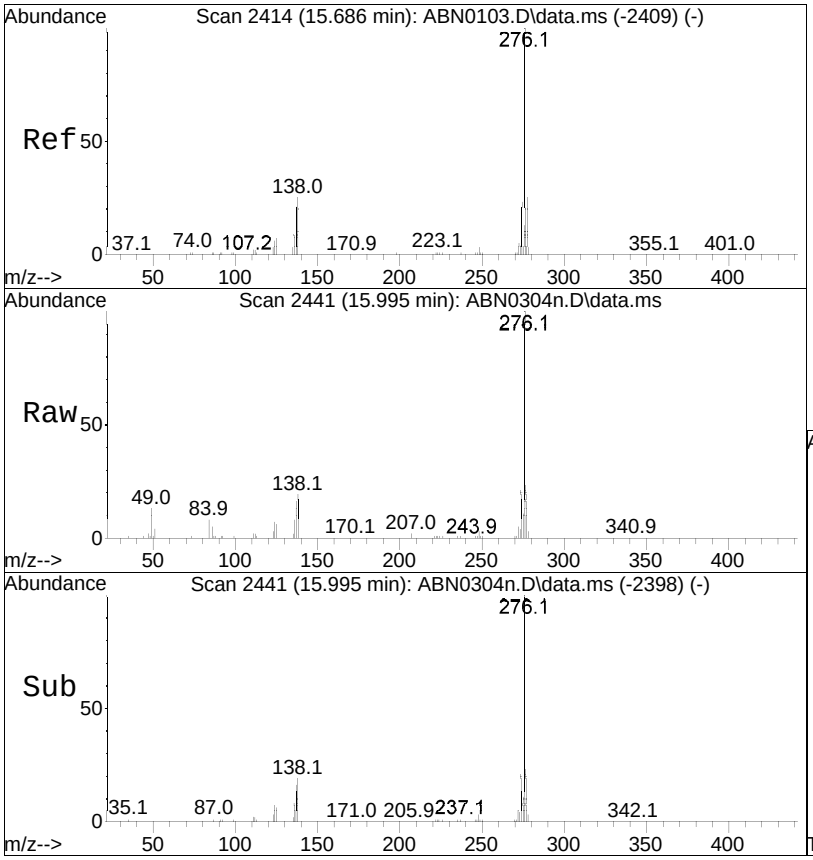


#111
Benzo(a)pyrene
Concen: 4.77 ug/ml
RT: 14.977 min Scan# 2268
Delta R.T. 0.000 min
Lab File: ABN0304n.D
Acq: 5 Mar 2024 12:10 am

Tgt Ion:252 Resp: 267968

Ion	Ratio	Lower	Upper
252	100		
125	11.1	14.2	21.2#
253	20.5	16.9	25.3

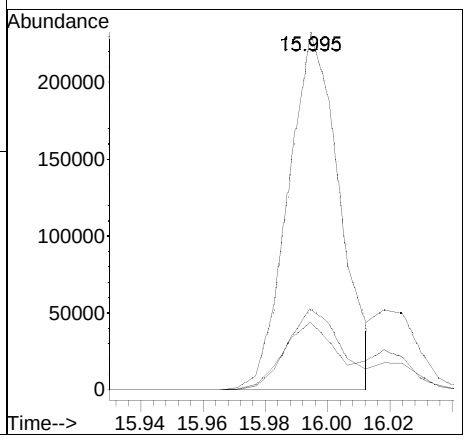


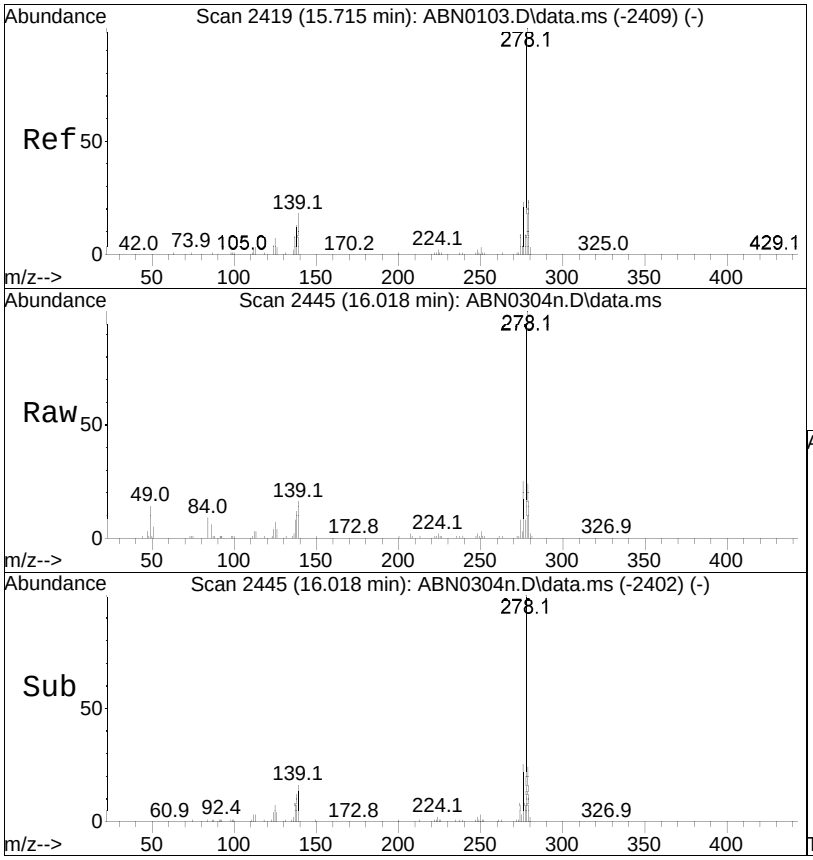


#113
Indeno(1,2,3-cd)pyrene
Concen: 5.04 ug/mL M6
RT: 15.995 min Scan# 2441
Delta R.T. 0.000 min
Lab File: ABN0304n.D
Acq: 5 Mar 2024 12:10 am

Tgt Ion:276 Resp: 268443

Ion	Ratio	Lower	Upper
276	100		
138	21.5	25.1	37.7#
277	29.8	18.6	28.0#

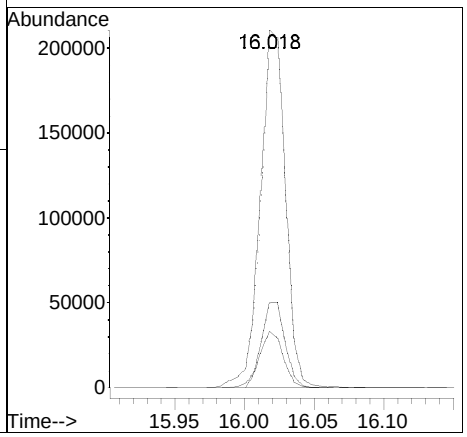


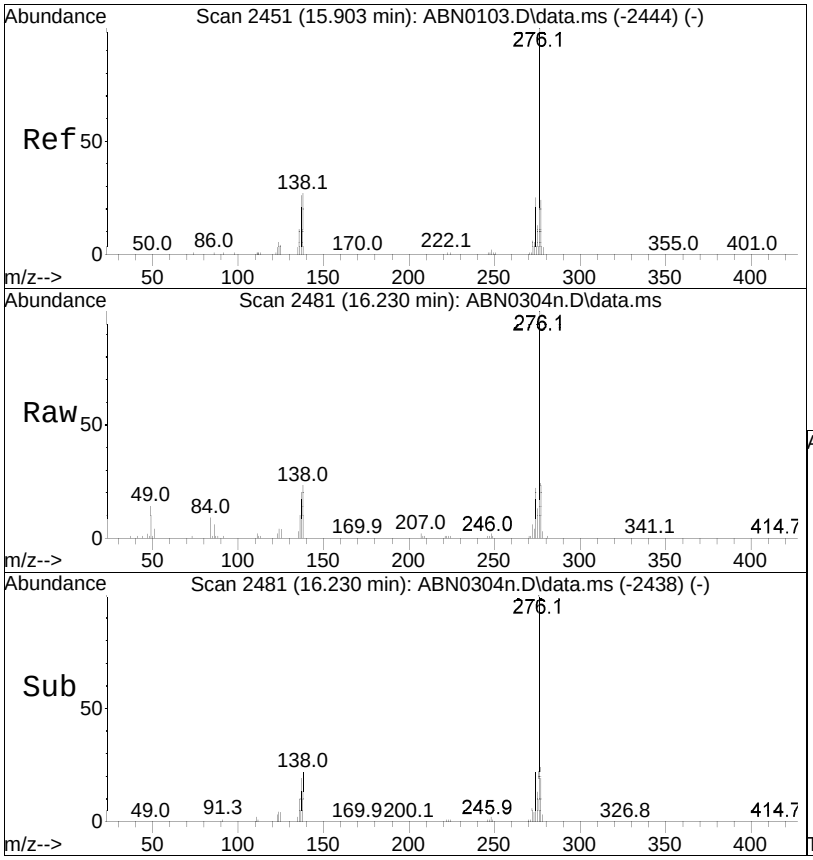


#114
Dibenzo(a,h)anthracene
Concen: 4.60 ug/ml
RT: 16.018 min Scan# 2445
Delta R.T. 0.000 min
Lab File: ABN0304n.D
Acq: 5 Mar 2024 12:10 am

Tgt Ion:278 Resp: 261632

Ion	Ratio	Lower	Upper
278	100		
139	14.7	20.8	31.2#
279	23.1	18.3	27.5

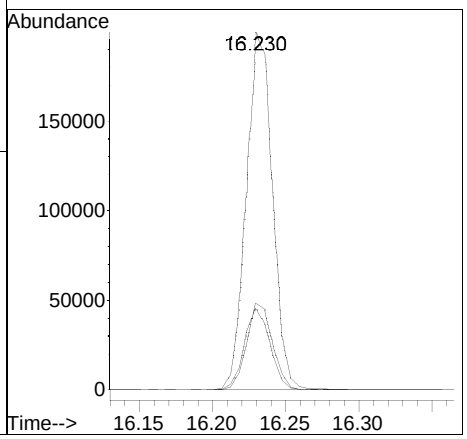




#115
Benzo(ghi)perylene
Concen: 4.35 ug/ml
RT: 16.230 min Scan# 2481
Delta R.T. 0.000 min
Lab File: ABN0304n.D
Acq: 5 Mar 2024 12:10 am

Tgt Ion:276 Resp: 245706

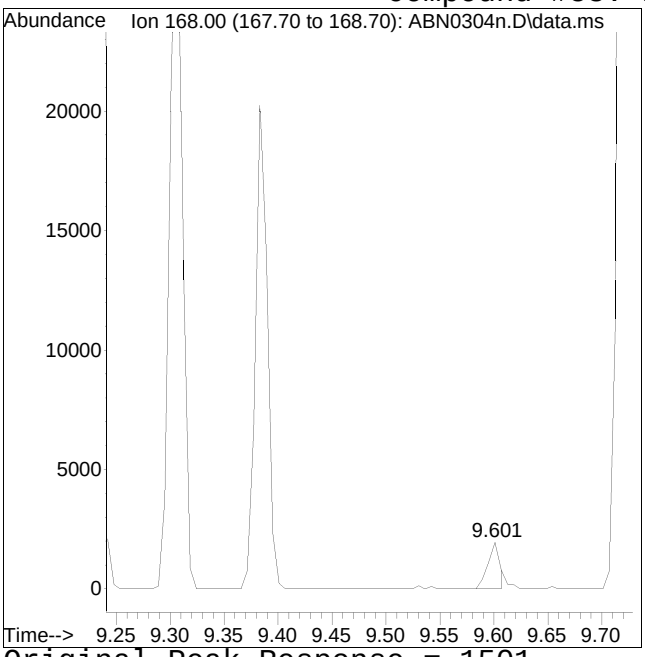
Ion	Ratio	Lower	Upper
276	100		
138	22.6	29.2	43.8#
277	24.0	18.8	28.2

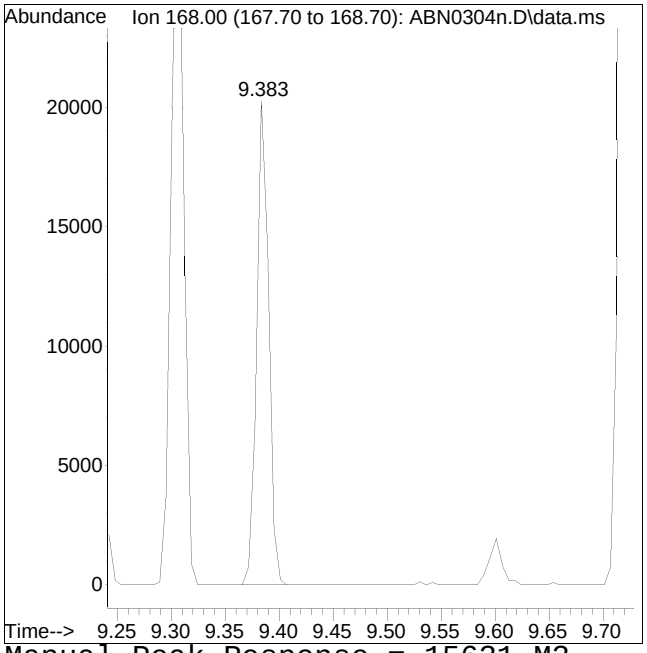


Manual Integration Report

Data Path : I:\8270\SV106\240304nlvi\ QMethod : FS230902SV106.m
Data File : ABN0304n.D Operator : SV106:ljg
Date Inj'd : 3/5/2024 12:10 am Instrument : SV 106
Sample : WG1891342-3,32,,ABN LVI CCQuant Date : 3/5/2024 11:18 am

Compound #53: 1,2-Dinitrobenzene





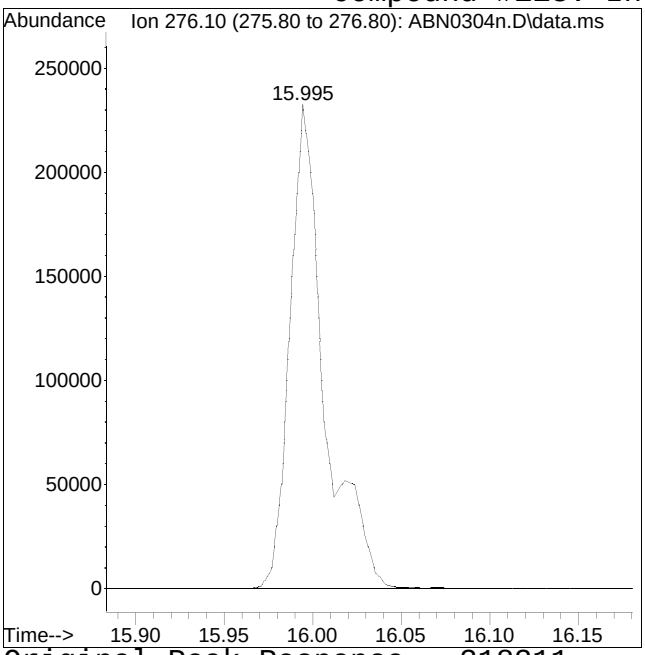
Original Peak Response = 1501 Manual Peak Response = 15631 M3

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

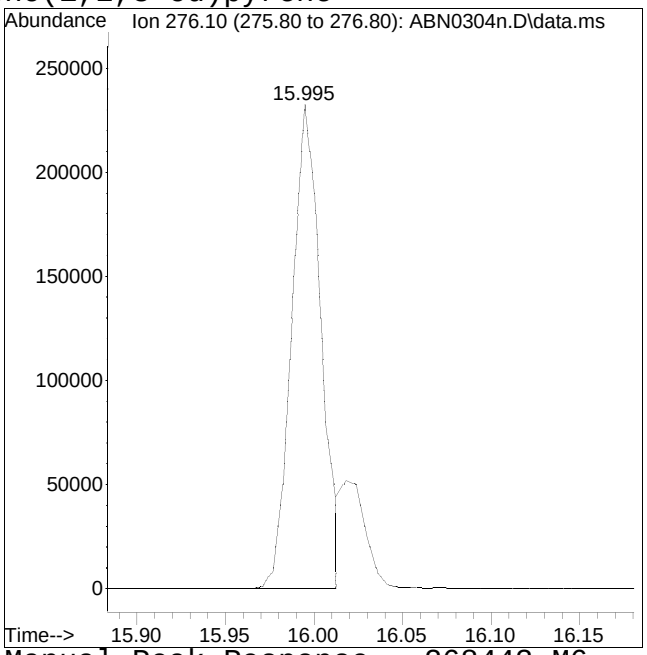
Manual Integration Report

Data Path : I:\8270\SV106\240304nlvi\ QMethod : FS230902SV106.m
Data File : ABN0304n.D Operator : SV106:ljg
Date Inj'd : 3/5/2024 12:10 am Instrument : SV 106
Sample : WG1891342-3,32,,ABN LVI CCQuant Date : 3/5/2024 11:18 am

Compound #113: Indeno(1,2,3-cd)pyrene



Original Peak Response = 318311



Manual Peak Response = 268443 M6

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

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV106\240304nlvi\
Data File : AP90304n.D
Acq On : 5 Mar 2024 12:34 am
Operator : SV106:ljg
Sample : WG1891342-4,32,,AP9 LVI CCV Lot # 10340
Misc : WG1891342,,ical20337
ALS Vial : 143 Sample Multiplier: 1

Quant Time: Mar 05 01:16:22 2024
Quant Method : I:\8270\SV106\240304nlvi\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Mar 05 01:16:31 2024
Response via : Initial Calibration

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

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(min)
27	I	IS2_1,4-Dichlorobenzene-d4		1.000	1.000	0.0	102	0.00
28	T	Benzaldehyde		0.928	0.931	-0.3	73	0.00
29	T	Acetophenone		1.994	1.601	19.7	63	0.00
30	T	m-Toluidine		1.550	1.540	0.6	72	0.00
31	T	2-Chloroaniline		1.670	1.439	13.8	67	0.00
54	I	IS2_Naphthalene-d8		1.000	1.000	0.0	98	0.00
55	T	a-Terpineol		0.289	0.281	2.8	73	0.00
56	T	3-Chloroaniline		0.150	0.147	2.0	71	0.00
57	T	2,6-Dichlorophenol		0.277	0.267	3.6	69	0.00
58	T	1-chloro-2-nitrobenzene		0.131	0.137	-4.6	77	0.00
59	T	Caprolactam		0.147	0.162	-10.2	79	0.00
60	T	1,2,4,5-Tetrachlorobenzene		0.348	0.343	1.4	75	0.00
61	T	Biphenyl		0.856	0.809	5.5	71	0.00
82	I	IS2_Acenaphthene-d10		1.000	1.000	0.0	111	0.00
83	T	Dichloran	*	5.000	5.793	-15.9	104	0.00
84	T	Pentachloronitrobenzene	*	5.000	5.197	-3.9	88	0.00
97	I	IS2_Phenanthrene-d10		1.000	1.000	0.0	122	0.00
98	T	Diphenamid		0.508	0.417	17.9	73	0.00

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240304nlvi\
Data File : AP90304n.D
Acq On : 5 Mar 2024 12:34 am
Operator : SV106:ljg
Sample : WG1891342-4,32,,AP9 LVI CCV Lot # 10340
Misc : WG1891342,,ical20337
ALS Vial : 143 Sample Multiplier: 1

Quant Time: Mar 05 01:16:22 2024
Quant Method : I:\8270\SV106\240304nlvi\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Mar 05 01:16:31 2024
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
27) IS2_1,4-Dichlorobenzen...	6.331	152	45624	4.000	ug/ml		0.00
54) IS2_Naphthalene-d8	7.760	136	165553	4.000	ug/ml	#	0.00
82) IS2_Acenaphthene-d10	9.524	164	100303	4.000	ug/ml		0.00
97) IS2_Phenanthrene-d10	10.960	188	222077	4.000	ug/ml		0.00
System Monitoring Compounds							
Target Compounds							Qvalue
28) Benzaldehyde	5.742	105	53104	5.015	ug/ml		100
29) Acetophenone	6.836	105	91291	4.014	ug/ml	#	84
30) m-Toluidine	6.936	106	87811	4.968	ug/ml		96
31) 2-Chloroaniline	7.342	127	82063	4.307	ug/ml		94
55) a-Terpineol	7.836	59	58112	4.863	ug/ml	#	85
56) 3-Chloroaniline	7.848	65	30450	4.892	ug/ml		83
57) 2,6-Dichlorophenol	7.878	162	55210	4.822	ug/ml		91
58) 1-chloro-2-nitrobenzene	8.142	111	28401	5.236	ug/ml	#	1
59) Caprolactam	8.183	55	33472	5.515	ug/ml	#	75
60) 1,2,4,5-Tetrachloroben...	8.677	216	70964	4.928	ug/ml		98
61) Biphenyl	8.977	154	167485	4.728	ug/ml		98
83) Dichloran	10.660	206	19931	5.793	ug/ml	#	76
84) Pentachloronitrobenzene	10.807	237	21960	5.197	ug/ml	#	82
98) Diphenamid	11.871	167	115859	4.108	ug/ml	#	83

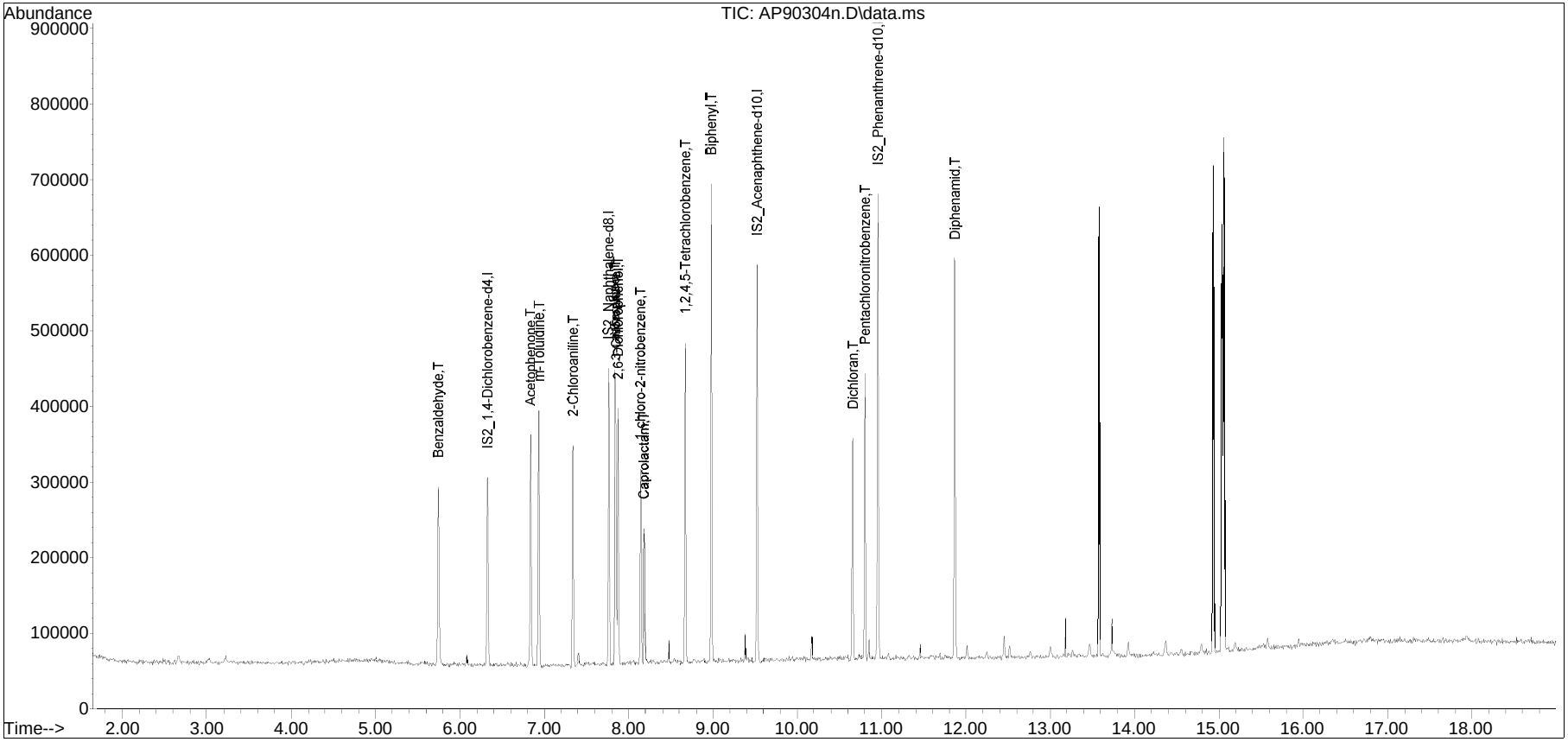
(#) = qualifier out of range (m) = manual integration (+) = signals summed

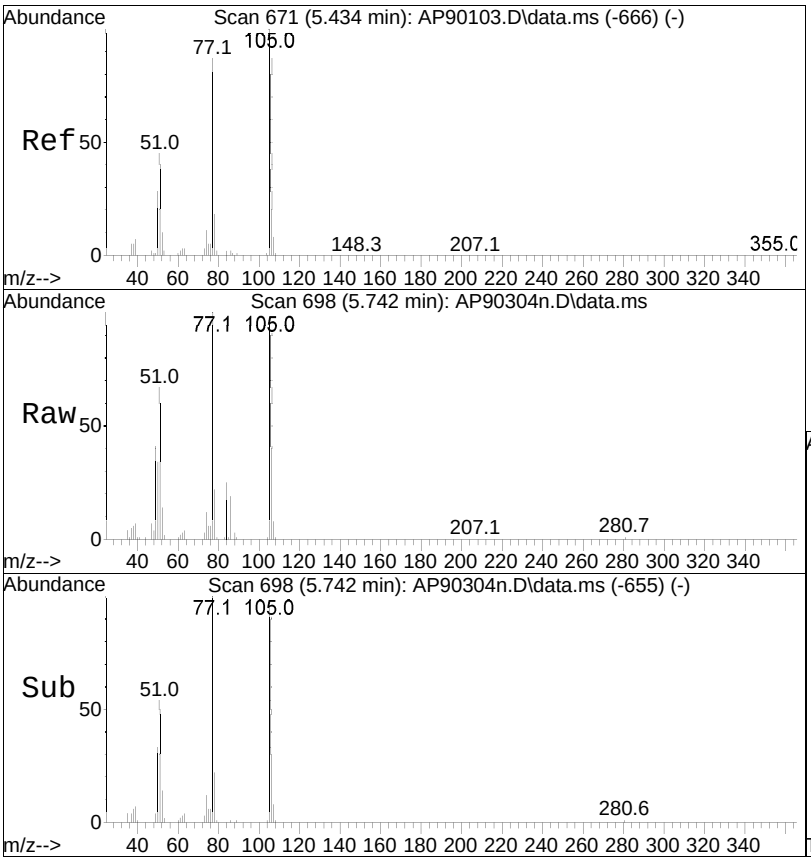
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240304nlvi\
Data File : AP90304n.D
Acq On : 5 Mar 2024 12:34 am
Operator : SV106:ljg
Sample : WG1891342-4,32,,AP9 LVI CCV Lot # 10340
Misc : WG1891342,,ical20337
ALS Vial : 143 Sample Multiplier: 1

Quant Time: Mar 05 01:16:22 2024
Quant Method : I:\8270\SV106\240304nlvi\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Mar 05 01:16:31 2024
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublist

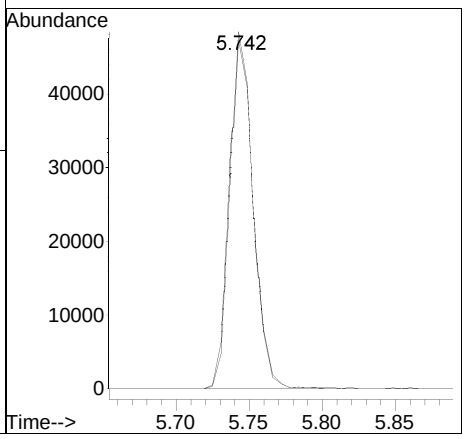


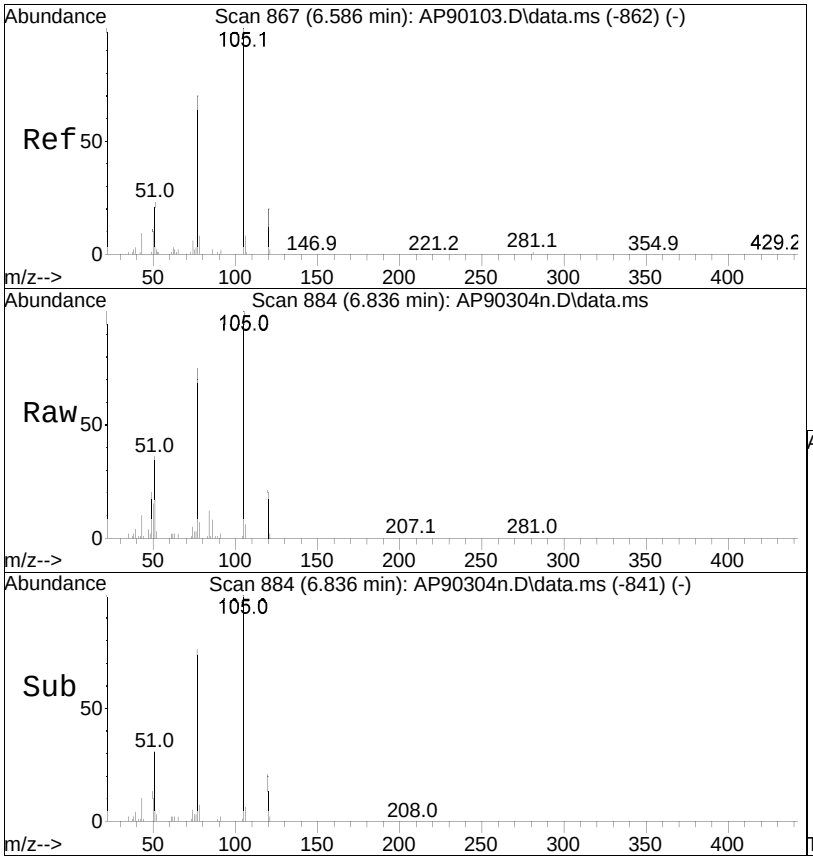


#28
Benzaldehyde
Concen: 5.02 ug/ml
RT: 5.742 min Scan# 698
Delta R.T. 0.000 min
Lab File: AP90304n.D
Acq: 5 Mar 2024 12:34 am

Tgt Ion:105 Resp: 53104

Ion	Ratio	Lower	Upper
105	100		
77	102.4	82.2	123.4

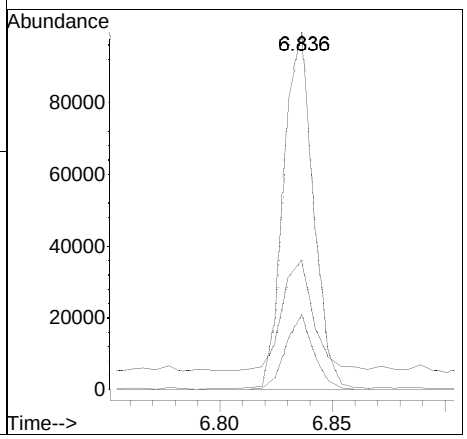


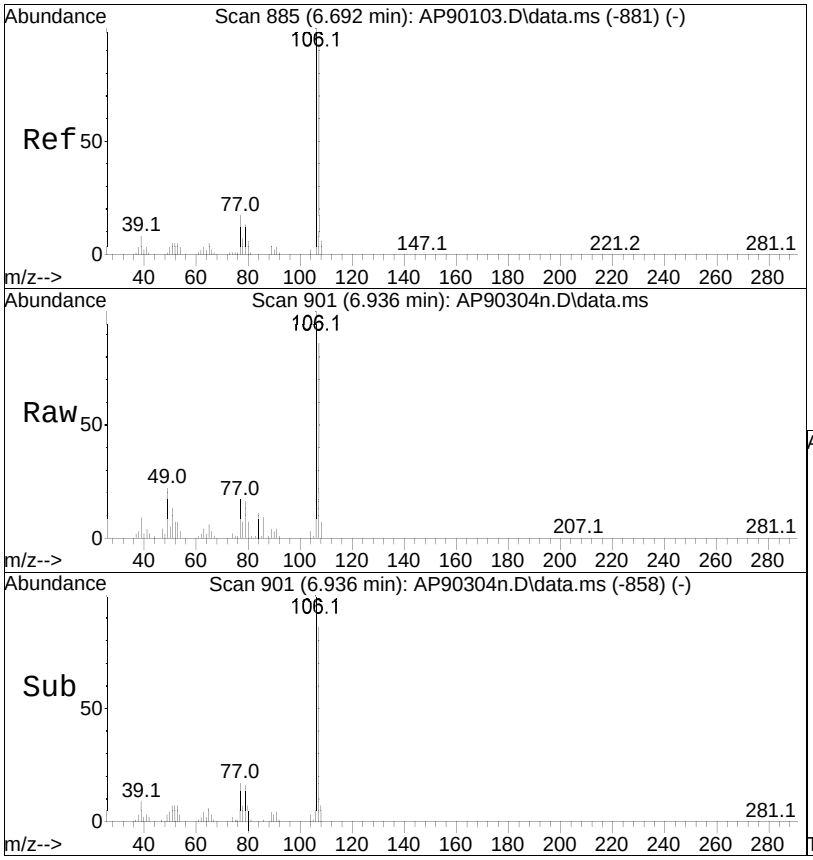


#29
Acetophenone
Concen: 4.01 ug/ml
RT: 6.836 min Scan# 884
Delta R.T. 0.000 min
Lab File: AP90304n.D
Acq: 5 Mar 2024 12:34 am

Tgt Ion:105 Resp: 91291

Ion	Ratio	Lower	Upper
105	100		
120	19.6	20.5	30.7#
51	31.9	34.9	52.3#

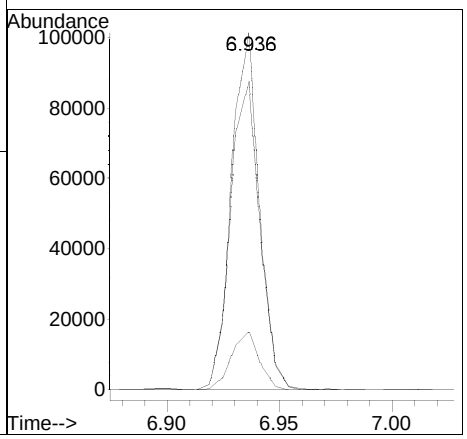


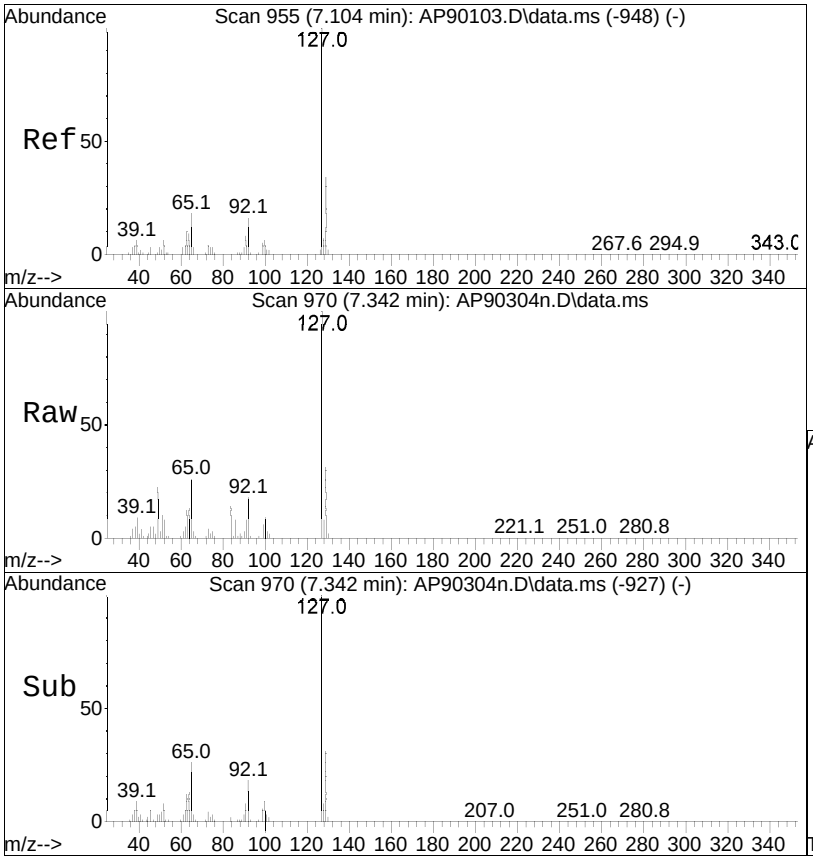


#30
m-Toluidine
Concen: 4.97 ug/ml
RT: 6.936 min Scan# 901
Delta R.T. 0.000 min
Lab File: AP90304n.D
Acq: 5 Mar 2024 12:34 am

Tgt Ion:106 Resp: 87811

Ion	Ratio	Lower	Upper
106	100		
107	90.5	75.7	113.5
79	16.2	11.8	17.8

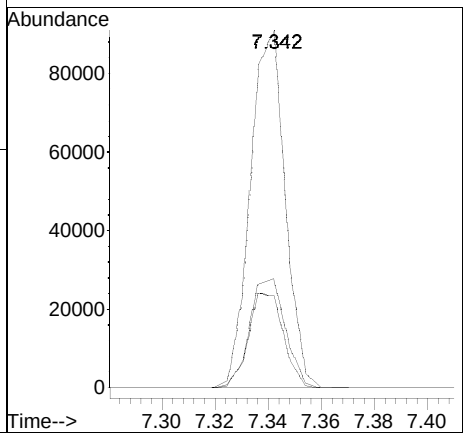


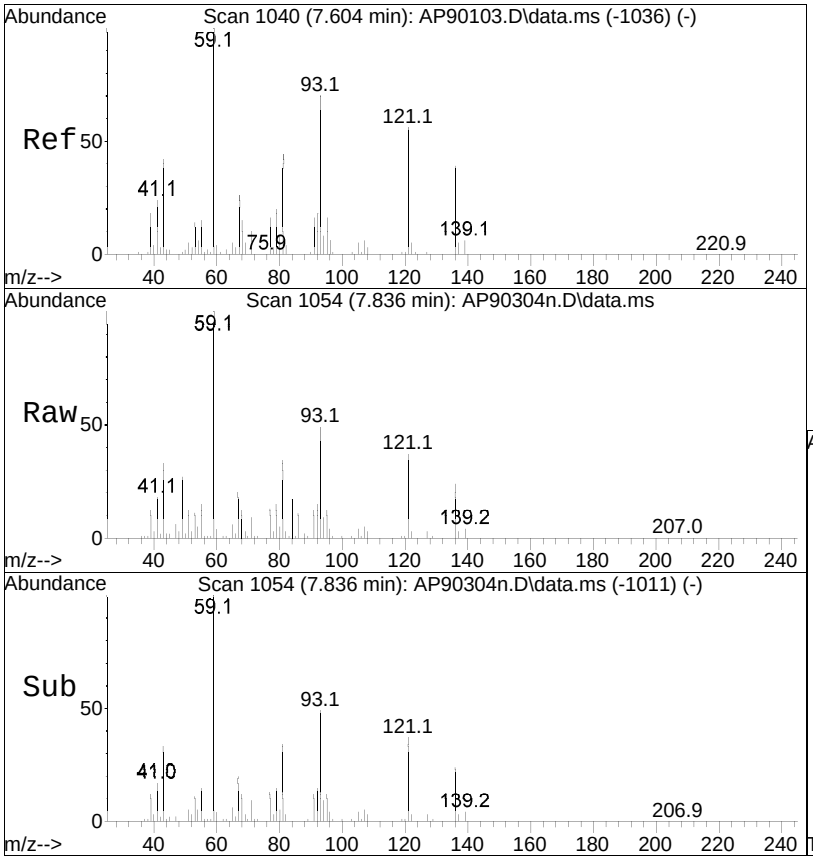


#31
2-Chloroaniline
Concen: 4.31 ug/ml
RT: 7.342 min Scan# 970
Delta R.T. 0.000 min
Lab File: AP90304n.D
Acq: 5 Mar 2024 12:34 am

Tgt Ion:127 Resp: 82063

Ion	Ratio	Lower	Upper
127	100		
129	31.6	25.9	38.9
65	27.0	26.3	39.5

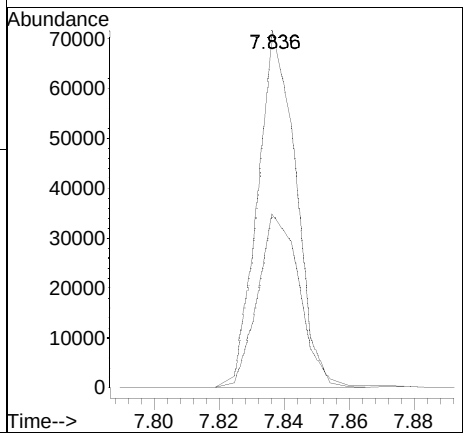


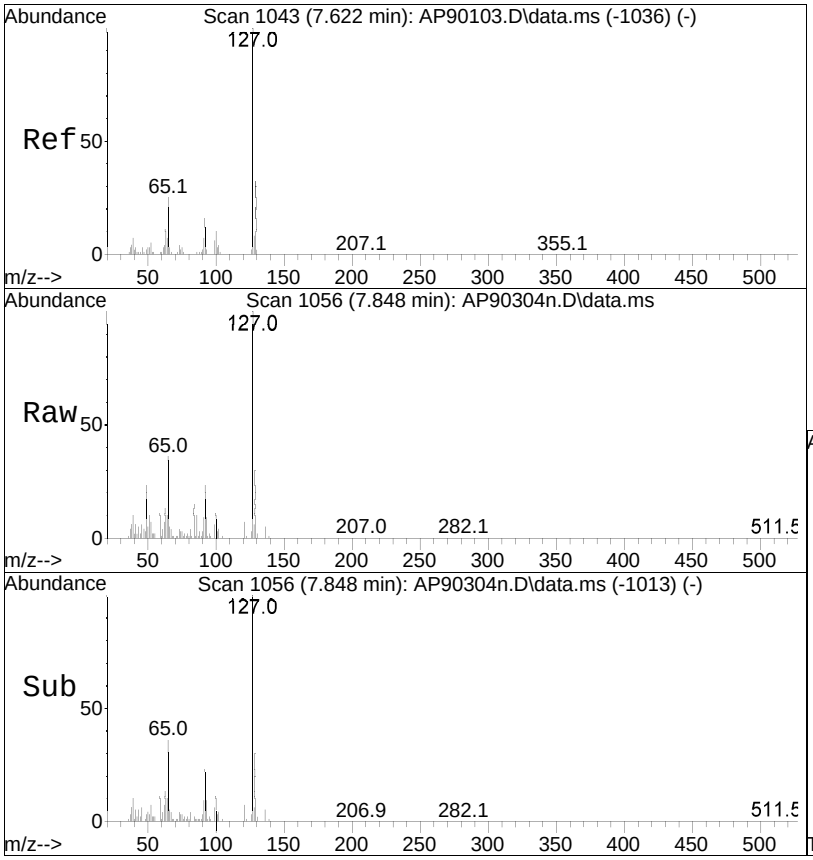


#55
a-Terpineol
Concen: 4.86 ug/ml
RT: 7.836 min Scan# 1054
Delta R.T. 0.000 min
Lab File: AP90304n.D
Acq: 5 Mar 2024 12:34 am

Tgt Ion: 59 Resp: 58112

Ion	Ratio	Lower	Upper
59	100		
93	54.0	35.6	53.4#

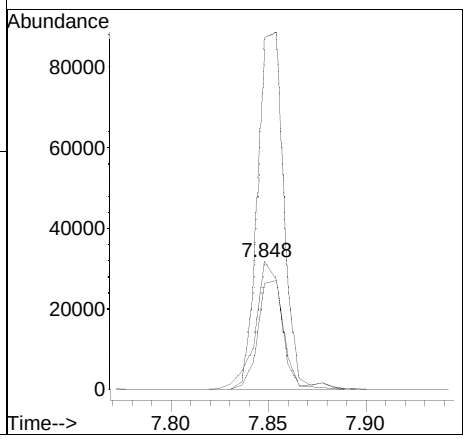


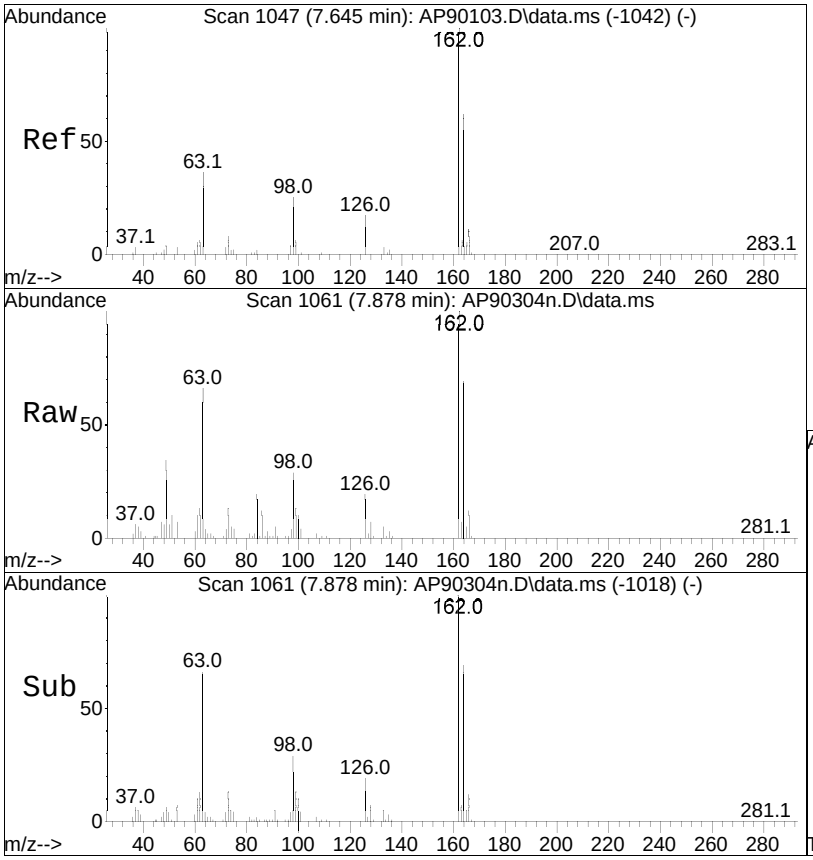


#56
3-Chloroaniline
Concen: 4.89 ug/ml
RT: 7.848 min Scan# 1056
Delta R.T. 0.000 min
Lab File: AP90304n.D
Acq: 5 Mar 2024 12:34 am

Tgt Ion: 65 Resp: 30450

Ion	Ratio	Lower	Upper
65	100		
127	268.5	243.2	364.8
129	82.9	78.8	118.2

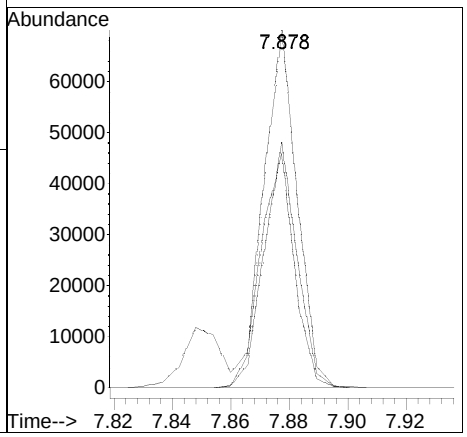


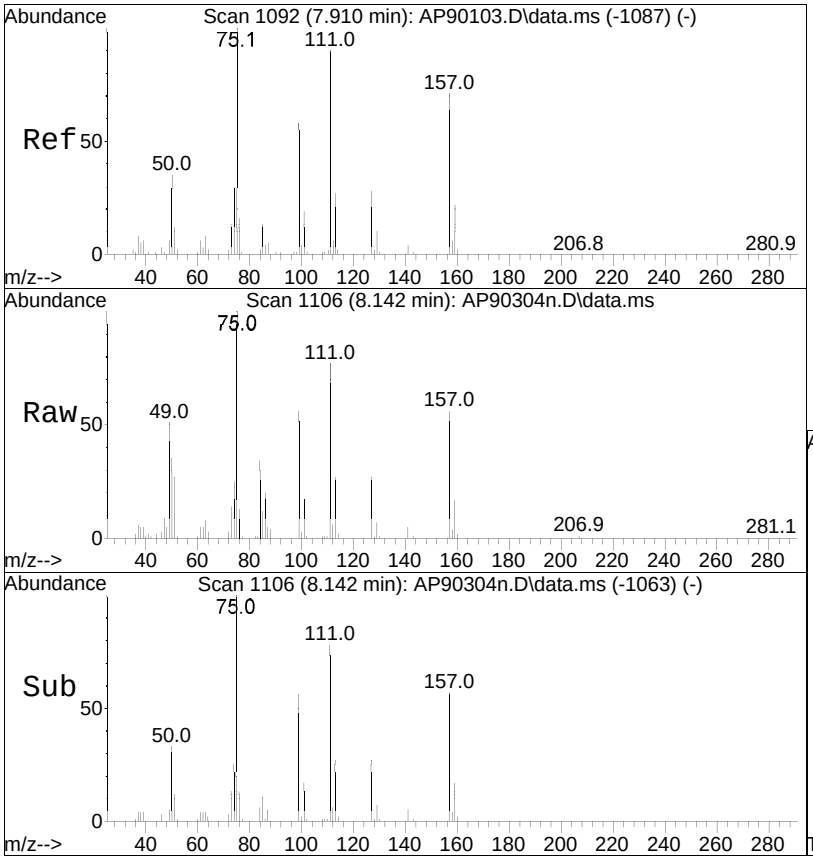


#57
2,6-Dichlorophenol
Concen: 4.82 ug/ml
RT: 7.878 min Scan# 1061
Delta R.T. 0.000 min
Lab File: AP90304n.D
Acq: 5 Mar 2024 12:34 am

Tgt Ion:162 Resp: 55210

Ion	Ratio	Lower	Upper
162	100		
164	67.6	51.1	76.7
63	65.9	60.8	91.2

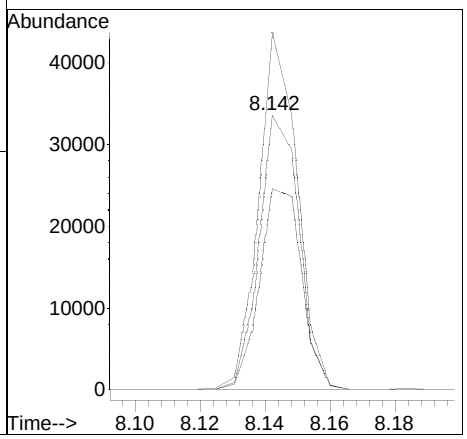


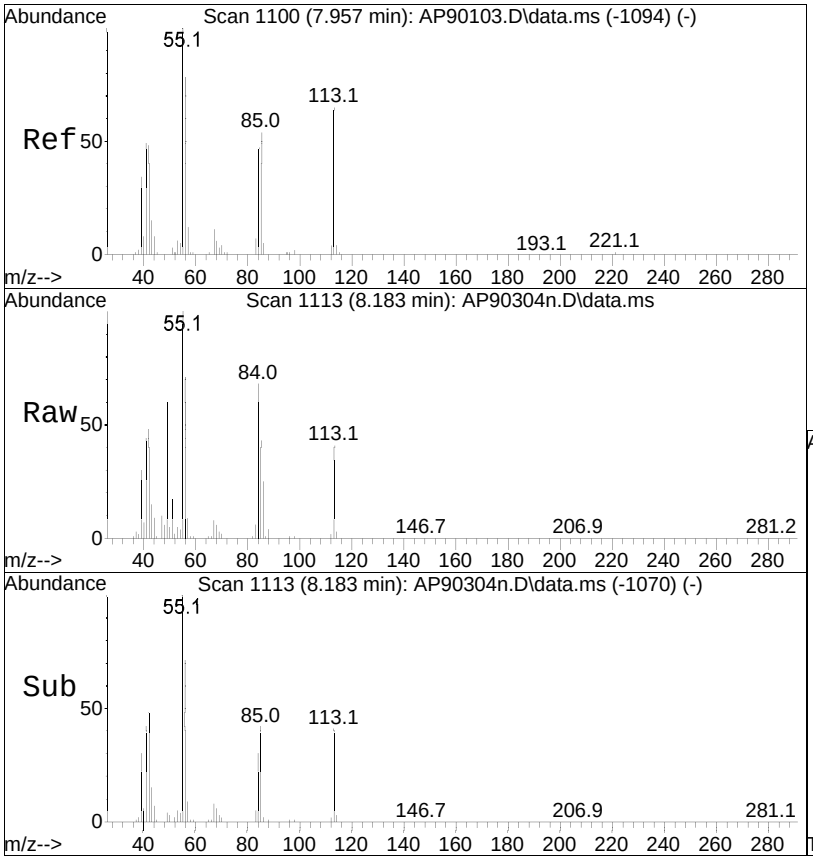


#58
1-chloro-2-nitrobenzene
Concen: 5.24 ug/ml
RT: 8.142 min Scan# 1106
Delta R.T. 0.000 min
Lab File: AP90304n.D
Acq: 5 Mar 2024 12:34 am

Tgt Ion:111 Resp: 28401

Ion	Ratio	Lower	Upper
111	100		
157	77.7	0.0	0.0#
75	125.9	28.2	42.2#

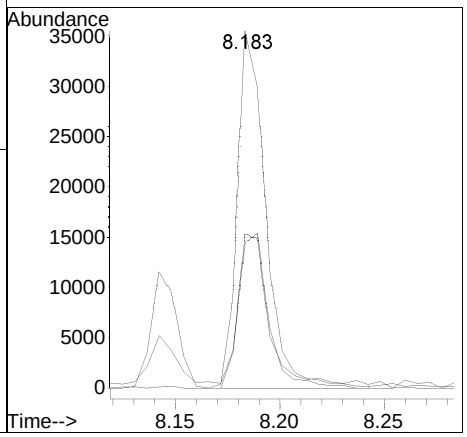


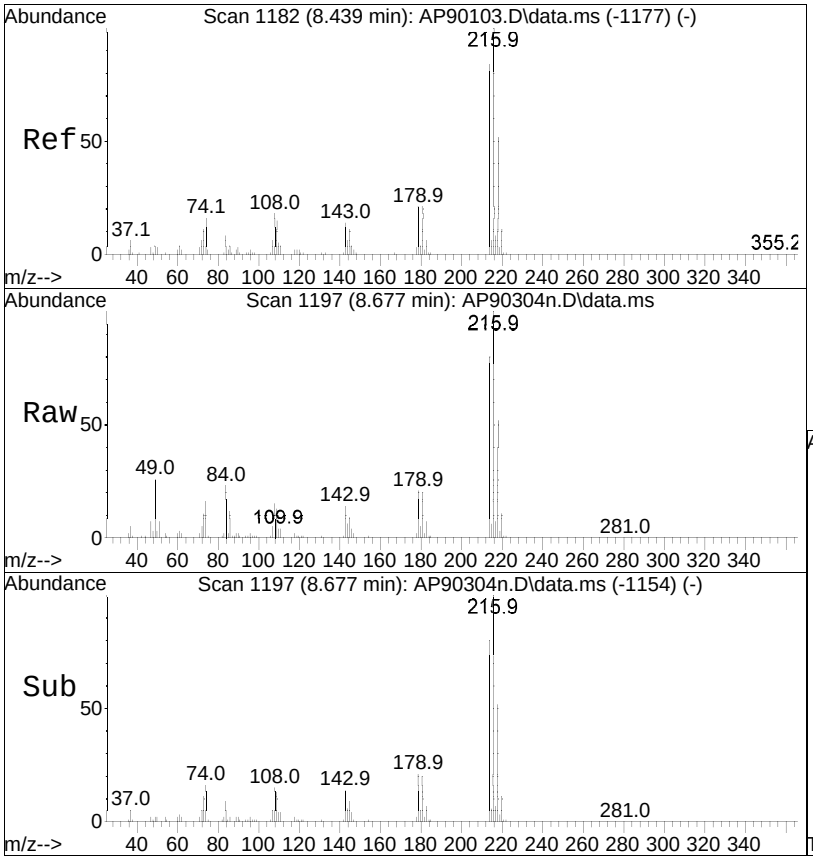


#59
Caprolactam
Concen: 5.52 ug/ml
RT: 8.183 min Scan# 1113
Delta R.T. 0.000 min
Lab File: AP90304n.D
Acq: 5 Mar 2024 12:34 am

Tgt Ion: 55 Resp: 33472

Ion	Ratio	Lower	Upper
55	100		
85	44.9	19.8	29.6#
113	45.8	29.6	44.4#

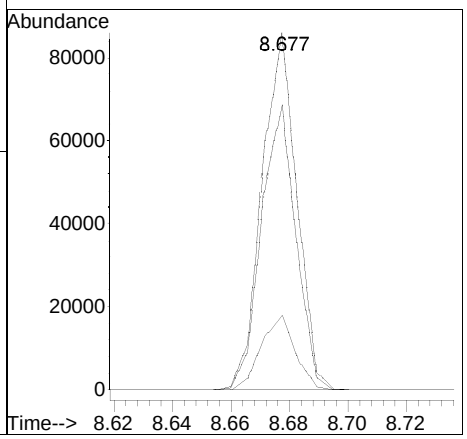


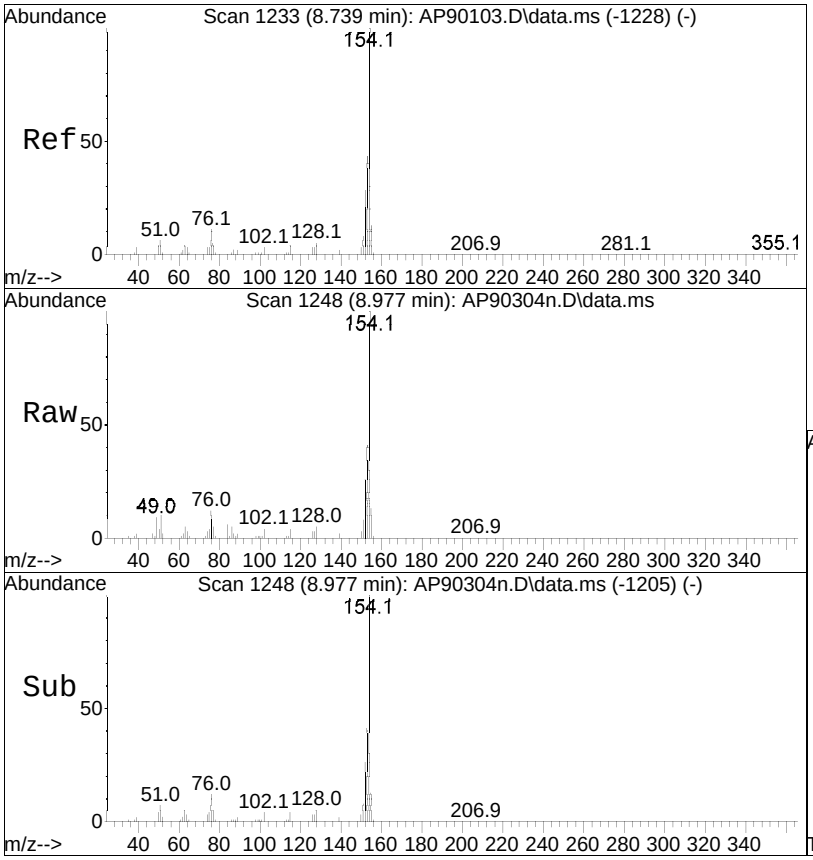


#60
1,2,4,5-Tetrachlorobenzene
Concen: 4.93 ug/ml
RT: 8.677 min Scan# 1197
Delta R.T. 0.000 min
Lab File: AP90304n.D
Acq: 5 Mar 2024 12:34 am

Tgt Ion:216 Resp: 70964

Ion	Ratio	Lower	Upper
216	100		
214	79.2	63.7	95.5
179	20.6	19.0	28.6

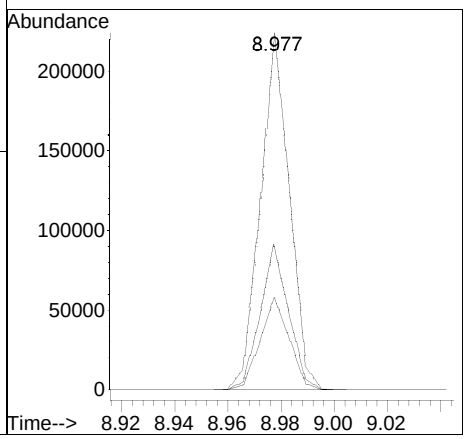


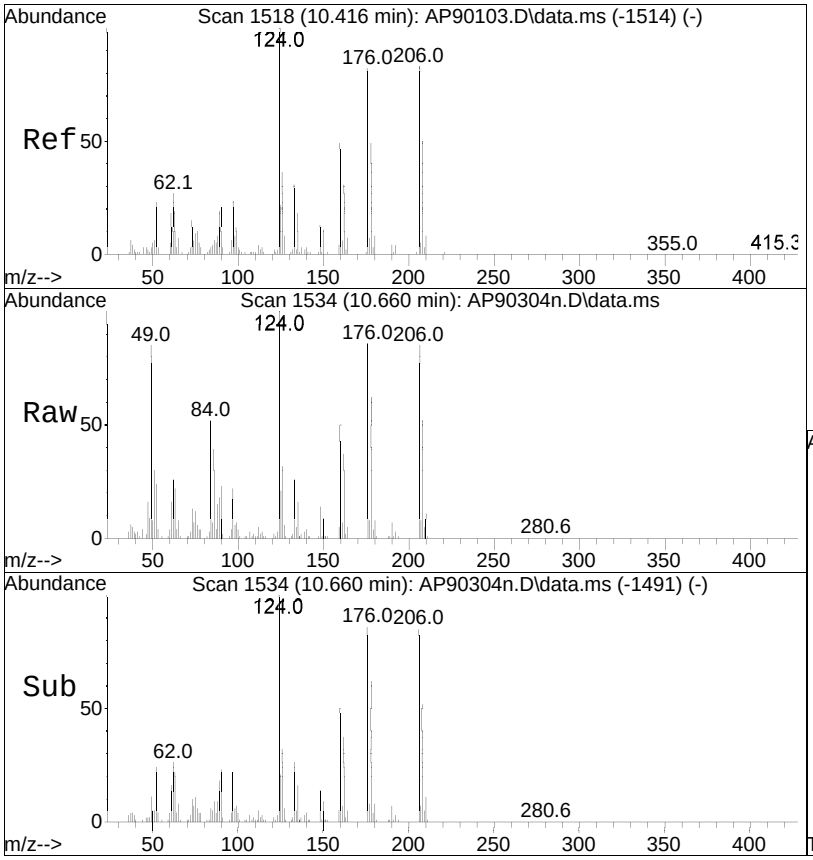


#61
Biphenyl
Concen: 4.73 ug/ml
RT: 8.977 min Scan# 1248
Delta R.T. 0.000 min
Lab File: AP90304n.D
Acq: 5 Mar 2024 12:34 am

Tgt Ion:154 Resp: 167485

Ion	Ratio	Lower	Upper
154	100		
153	40.3	32.3	48.5
152	26.2	22.5	33.7

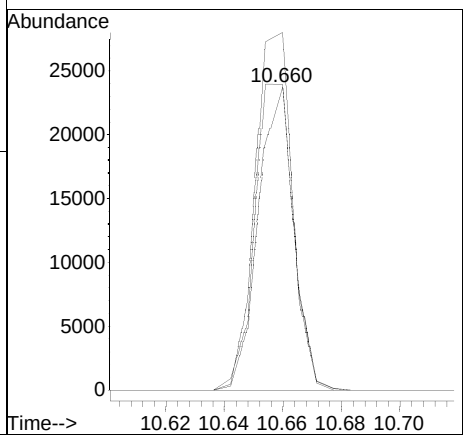


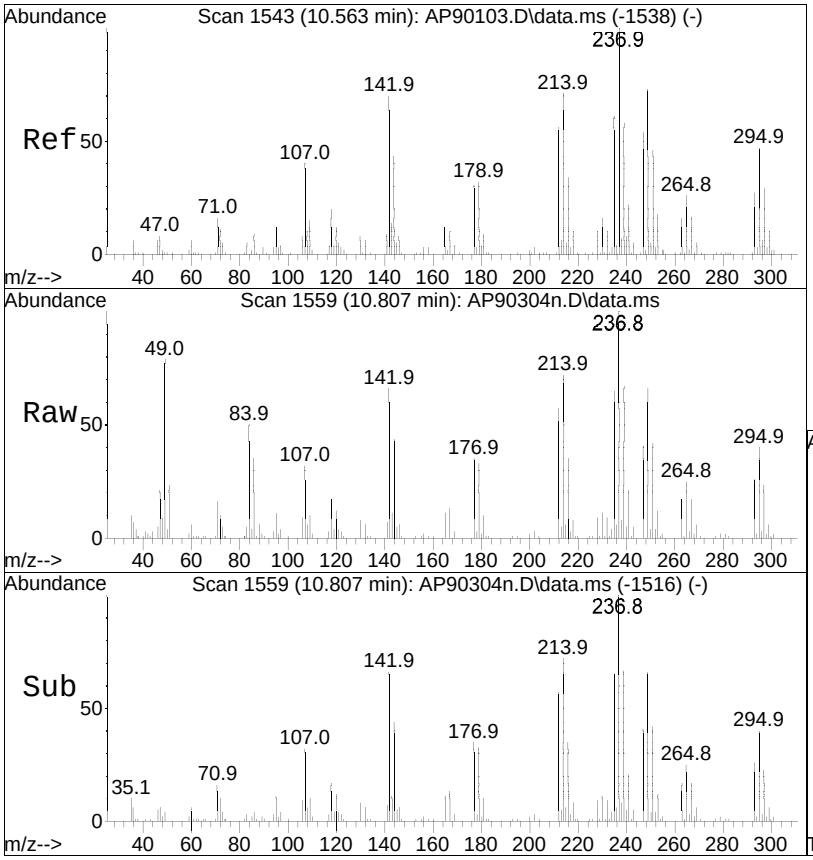


#83
Dichloran
Concen: 5.79 ug/ml
RT: 10.660 min Scan# 1534
Delta R.T. 0.000 min
Lab File: AP90304n.D
Acq: 5 Mar 2024 12:34 am

Tgt Ion:206 Resp: 19931

Ion	Ratio	Lower	Upper
206	100		
176	110.6	104.6	157.0
124	124.3	130.5	195.7#

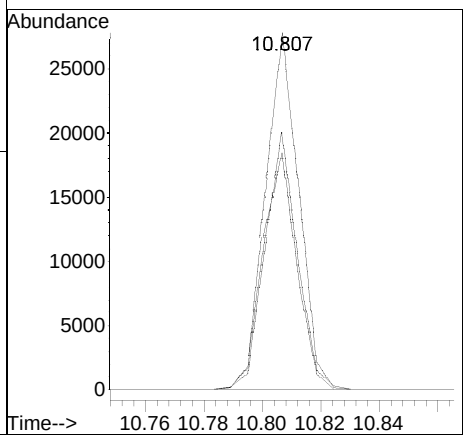


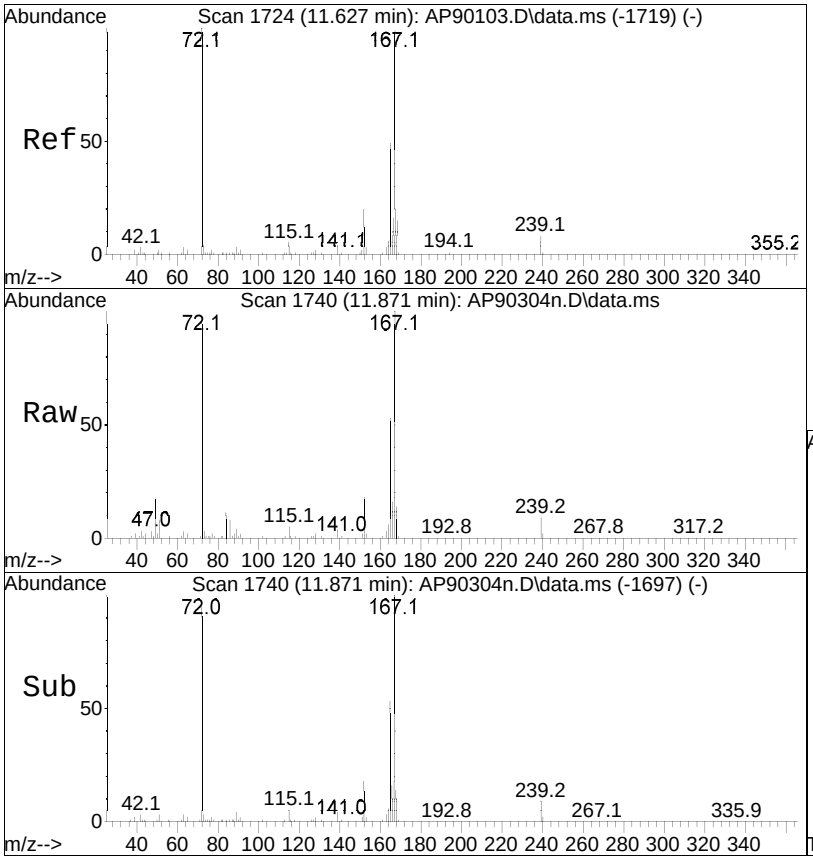


#84
Pentachloronitrobenzene
Concen: 5.20 ug/ml
RT: 10.807 min Scan# 1559
Delta R.T. 0.000 min
Lab File: AP90304n.D
Acq: 5 Mar 2024 12:34 am

Tgt Ion:237 Resp: 21960

Ion	Ratio	Lower	Upper
237	100		
142	67.6	77.0	115.4#
214	70.1	58.2	87.4

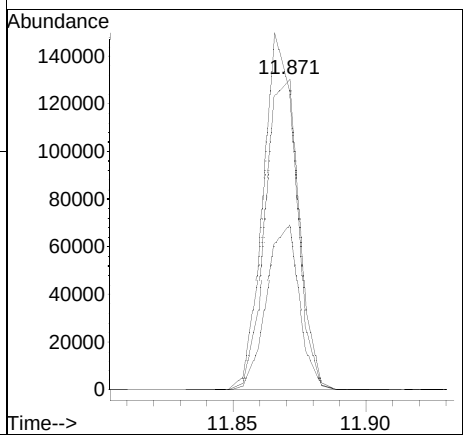




#98
Diphenamid
Concen: 4.11 ug/ml
RT: 11.871 min Scan# 1740
Delta R.T. 0.000 min
Lab File: AP90304n.D
Acq: 5 Mar 2024 12:34 am

Tgt Ion:167 Resp: 115859

Ion	Ratio	Lower	Upper
167	100		
72	109.6	109.7	164.5#
165	52.0	41.8	62.6



Manual Integration Report

Data Path	: I:\8270\SV106\240304nlvi\	QMethod	: FS230902SV106.m
Data File	: AP90304n.D	Operator	: SV106:ljg
Date Inj'd	: 3/5/2024 12:34 am	Instrument	: SV 106
Sample	: WG1891342-4,32,,AP9 LVI CC	Quant Date	: 3/5/2024 1:16 am

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

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV106\240304nlvi\
Data File : ADP0304n.D
Acq On : 5 Mar 2024 12:58 am
Operator : SV106:ljg
Sample : WG1891342-5,32,,ADP LVI CCV Lot # 10309
Misc : WG1891342,,ical20337
ALS Vial : 144 Sample Multiplier: 1

Quant Time: Mar 05 01:20:43 2024
Quant Method : I:\8270\SV106\240304nlvi\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Mar 05 01:20:52 2024
Response via : Initial Calibration

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

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(min)
32	I	IS3_1,4-Dichlorobenzene-d4		1.000	1.000	0.0	99	0.00
33	T	n-Decane		1.347	1.408	-4.5	105	0.00
85	I	IS3_Acenaphthene-d10		1.000	1.000	0.0	107	0.00
86	T	Atrazine		0.345	0.326	5.5	102	0.00
99	I	IS3_Phenanthrene-d10		1.000	1.000	0.0	120	0.00
100	T	n-Octadecane		0.460	0.379	17.6	98	0.00
101	T	Parathion		0.094	0.083	11.7	117	0.00
102	T	3,3'-Dimethylbenzidine	*	5.000	4.078	18.4	105	0.00

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240304nlvi\
Data File : ADP0304n.D
Acq On : 5 Mar 2024 12:58 am
Operator : SV106:ljg
Sample : WG1891342-5,32,,ADP LVI CCV Lot # 10309
Misc : WG1891342,,ical20337
ALS Vial : 144 Sample Multiplier: 1

Quant Time: Mar 05 01:20:43 2024
Quant Method : I:\8270\SV106\240304nlvi\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Mar 05 01:20:52 2024
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	6.325	152	44909	4.000	ug/ml	0.00
85) IS3_Acenaphthene-d10	9.525	164	98087	4.000	ug/ml	0.00
99) IS3_Phenanthrene-d10	10.960	188	217156	4.000	ug/ml	0.00
System Monitoring Compounds						
Target Compounds						Qvalue
33) n-Decane	6.225	57	79059	5.227	ug/ml#	49
86) Atrazine	10.736	200	39922	4.723	ug/ml	91
100) n-Octadecane	10.948	57	102936	4.124	ug/ml#	1
101) Parathion	11.748	109	22641	4.442	ug/ml	97
102) 3,3'-Dimethylbenzidine	13.024	212	140605	4.078	ug/ml	99

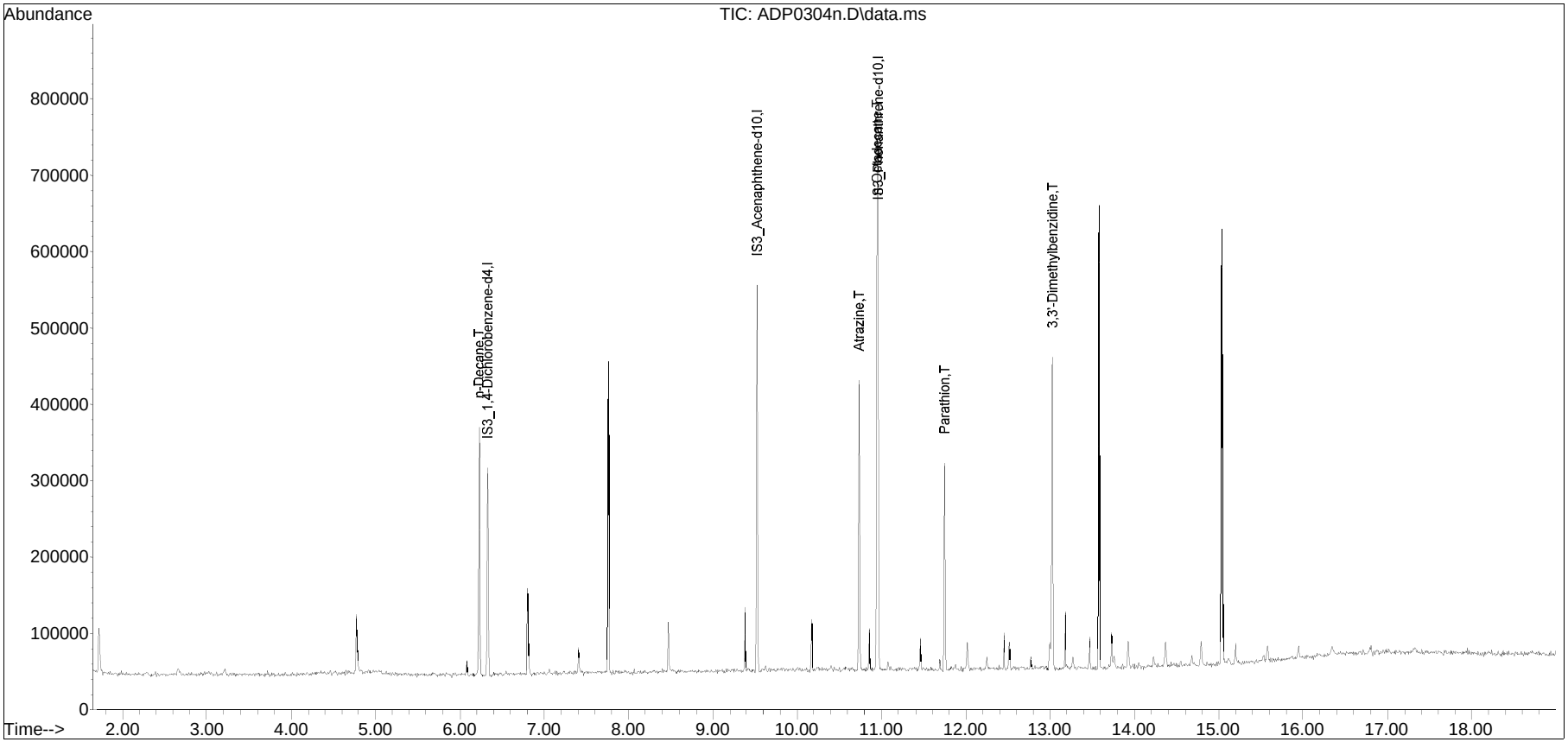
(#) = qualifier out of range (m) = manual integration (+) = signals summed

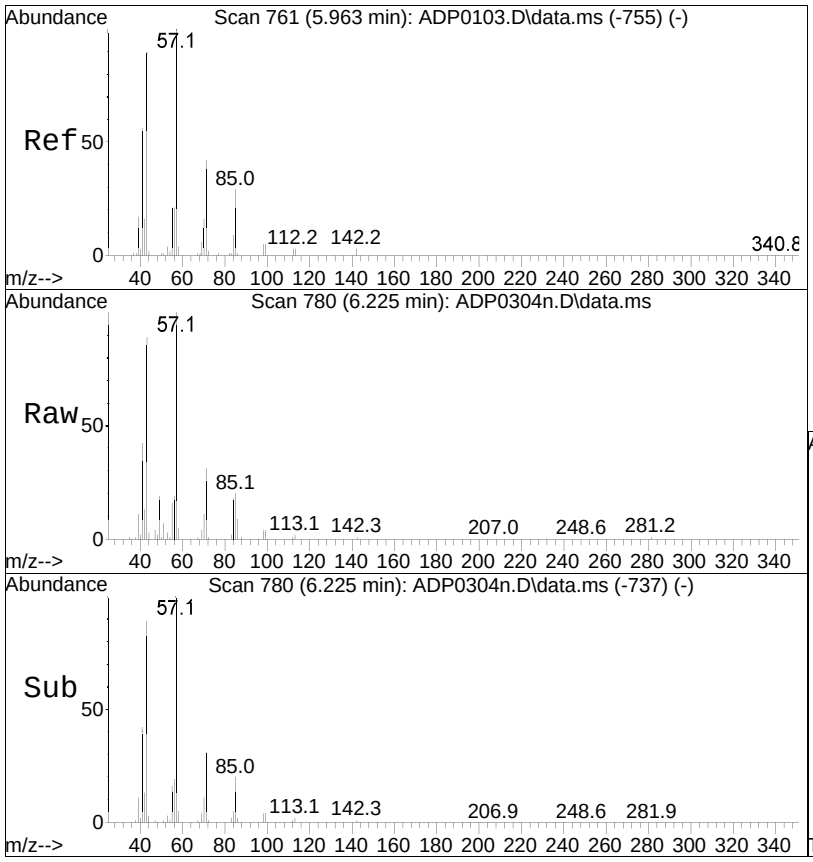
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240304nlvi\
Data File : ADP0304n.D
Acq On : 5 Mar 2024 12:58 am
Operator : SV106:ljg
Sample : WG1891342-5,32,,ADP LVI CCV Lot # 10309
Misc : WG1891342,,ical20337
ALS Vial : 144 Sample Multiplier: 1

Quant Time: Mar 05 01:20:43 2024
Quant Method : I:\8270\SV106\240304nlvi\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Mar 05 01:20:52 2024
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublist

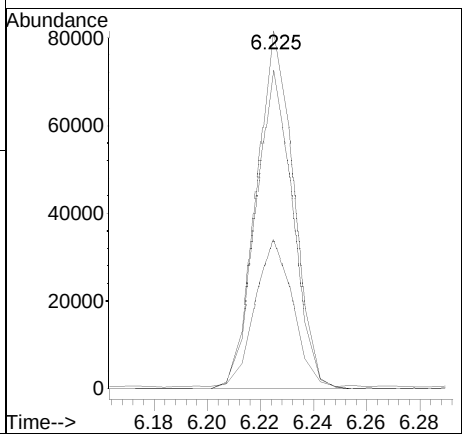


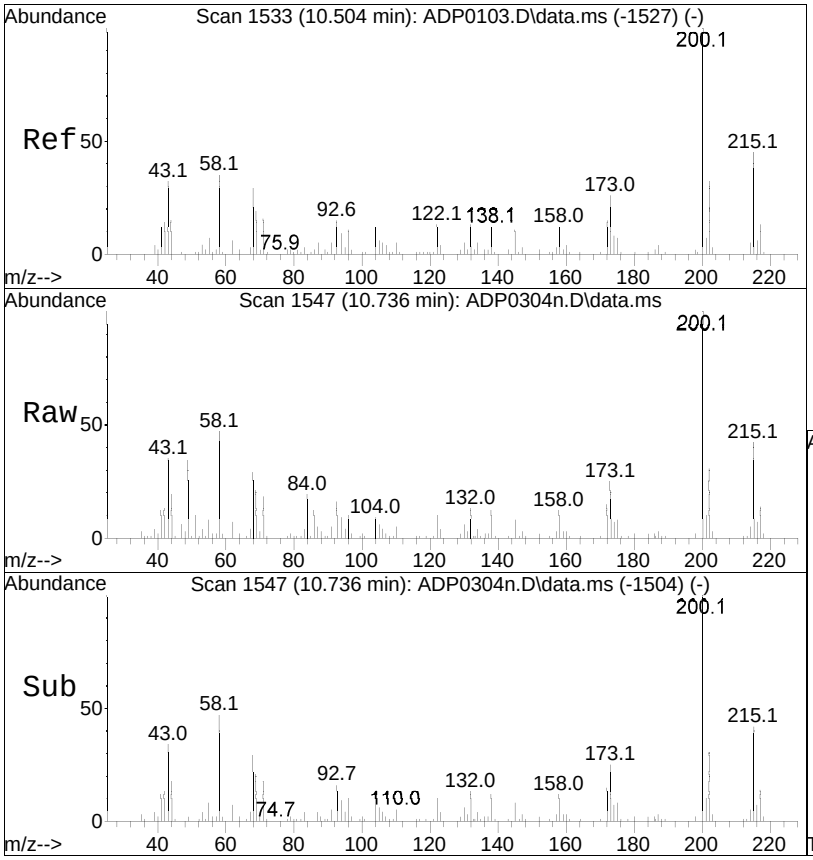


#33
n-Decane
Concen: 5.23 ug/ml
RT: 6.225 min Scan# 780
Delta R.T. 0.000 min
Lab File: ADP0304n.D
Acq: 5 Mar 2024 12:58 am

Tgt Ion: 57 Resp: 79059

Ion	Ratio	Lower	Upper
57	100		
43	88.6	0.2	0.2#
41	42.4	0.2	0.2#

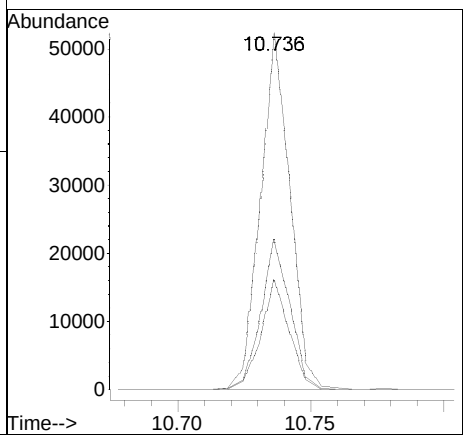


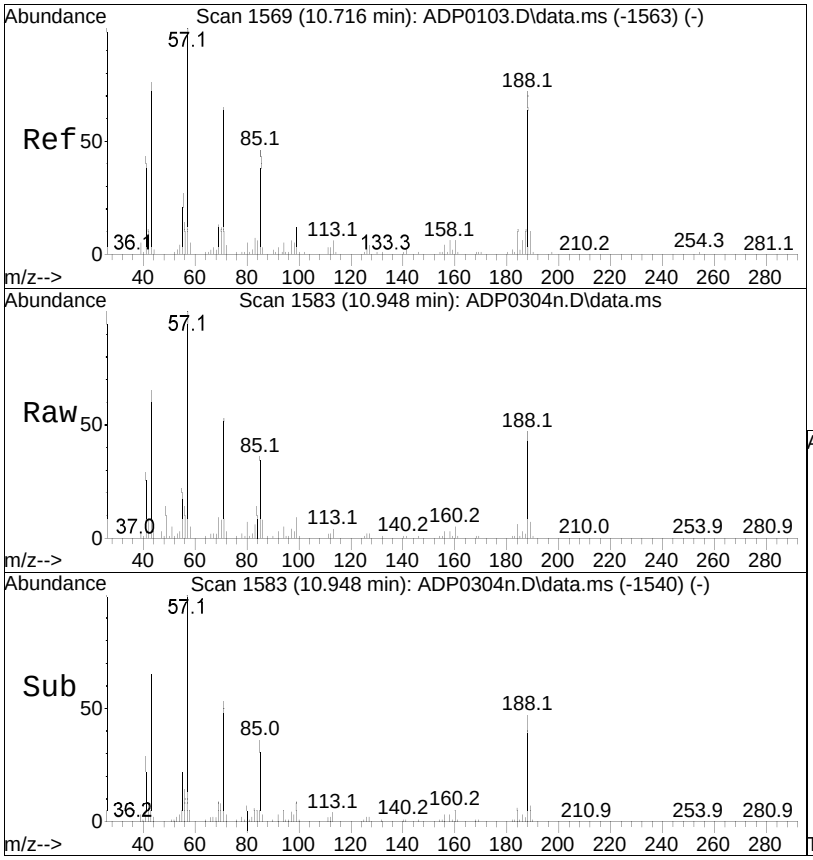


#86
Atrazine
Concen: 4.72 ug/ml
RT: 10.736 min Scan# 1547
Delta R.T. 0.000 min
Lab File: ADP0304n.D
Acq: 5 Mar 2024 12:58 am

Tgt Ion:200 Resp: 39922

Ion	Ratio	Lower	Upper
200	100		
202	29.8	25.8	38.6
215	41.6	40.2	60.4

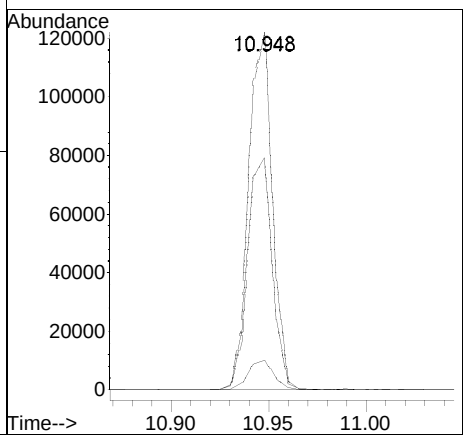


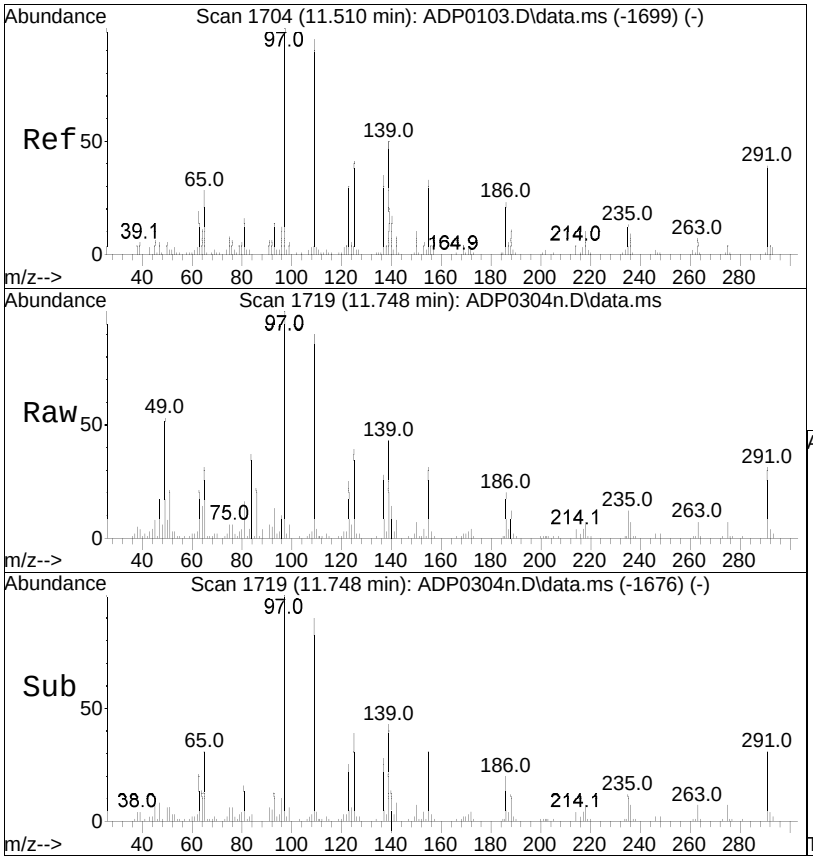


#100
n-Octadecane
Concen: 4.12 ug/ml
RT: 10.948 min Scan# 1583
Delta R.T. 0.000 min
Lab File: ADP0304n.D
Acq: 5 Mar 2024 12:58 am

Tgt Ion: 57 Resp: 102936

Ion	Ratio	Lower	Upper
57	100		
43	67.1	9.0	13.6#
70	9.1	0.2	0.2#

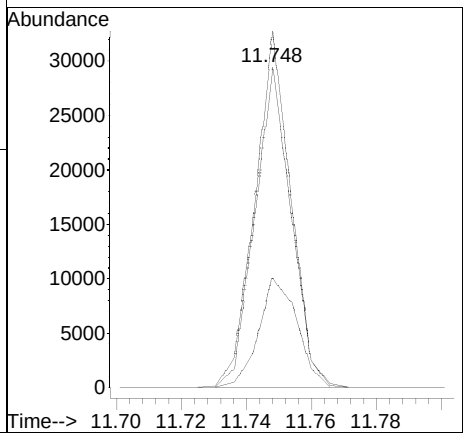


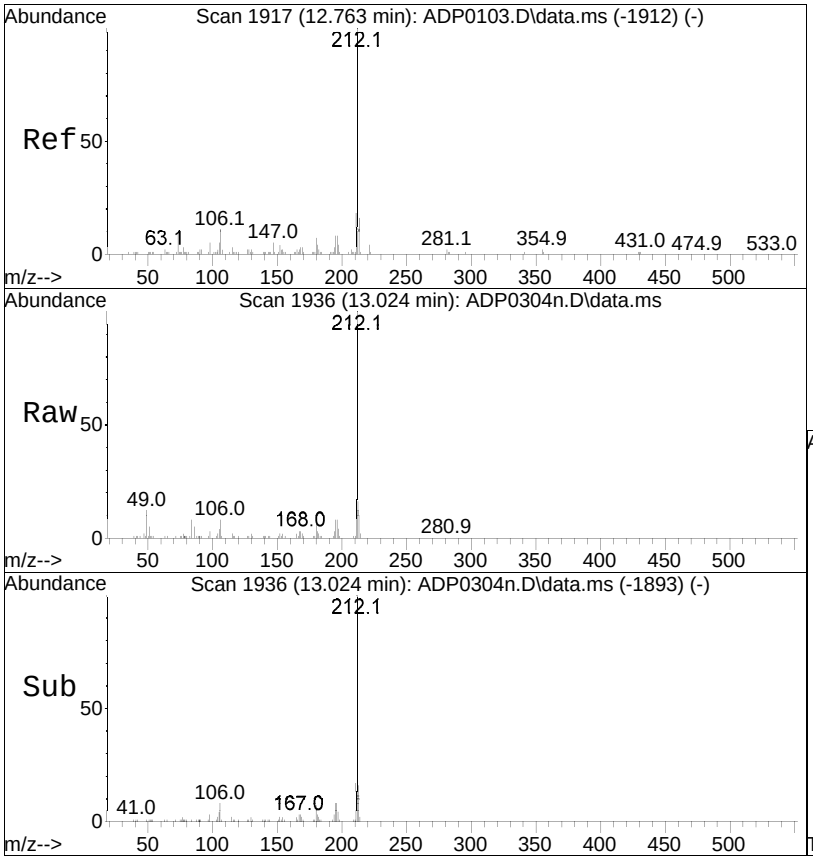


#101
Parathion
Concen: 4.44 ug/ml
RT: 11.748 min Scan# 1719
Delta R.T. 0.000 min
Lab File: ADP0304n.D
Acq: 5 Mar 2024 12:58 am

Tgt Ion:109 Resp: 22641

Ion	Ratio	Lower	Upper
109	100		
97	110.1	87.4	131.2
291	36.6	34.2	51.2

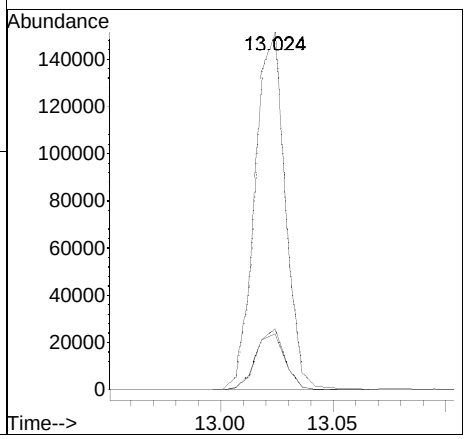




#102
3,3'-Dimethylbenzidine
Concen: 4.08 ug/ml
RT: 13.024 min Scan# 1936
Delta R.T. 0.000 min
Lab File: ADP0304n.D
Acq: 5 Mar 2024 12:58 am

Tgt Ion:212 Resp: 140605

Ion	Ratio	Lower	Upper
212	100		
211	16.3	12.9	19.3
213	15.8	13.2	19.8



Manual Integration Report

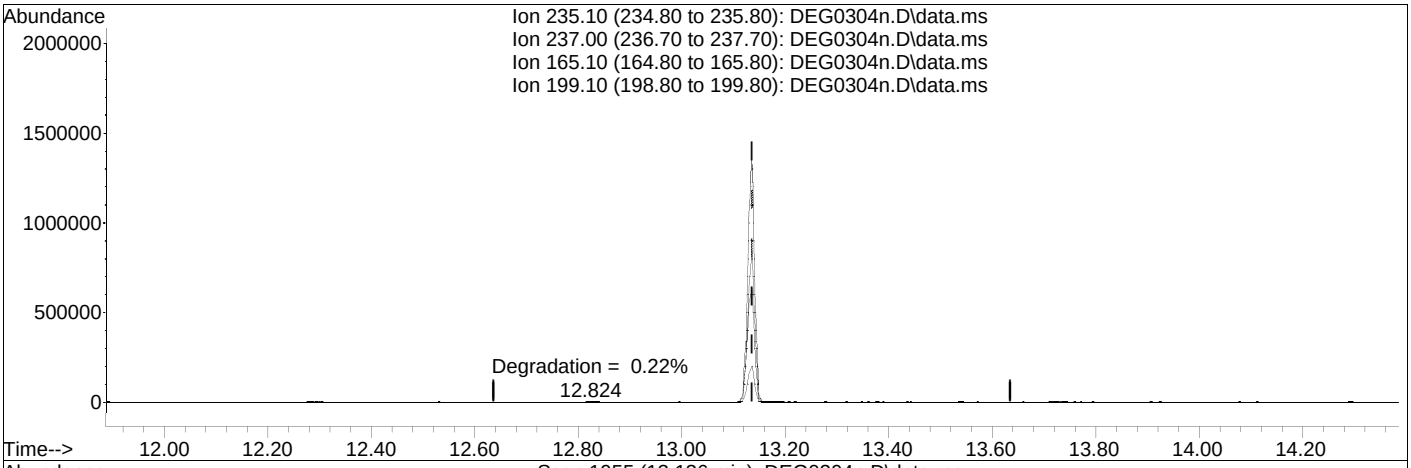
Data Path	: I:\8270\SV106\240304nlvi\	QMethod	: FS230902SV106.m
Data File	: ADP0304n.D	Operator	: SV106:ljg
Date Inj'd	: 3/5/2024 12:58 am	Instrument	: SV 106
Sample	: WG1891342-5,32,,ADP LVI CC	Quant Date	: 3/5/2024 1:20 am

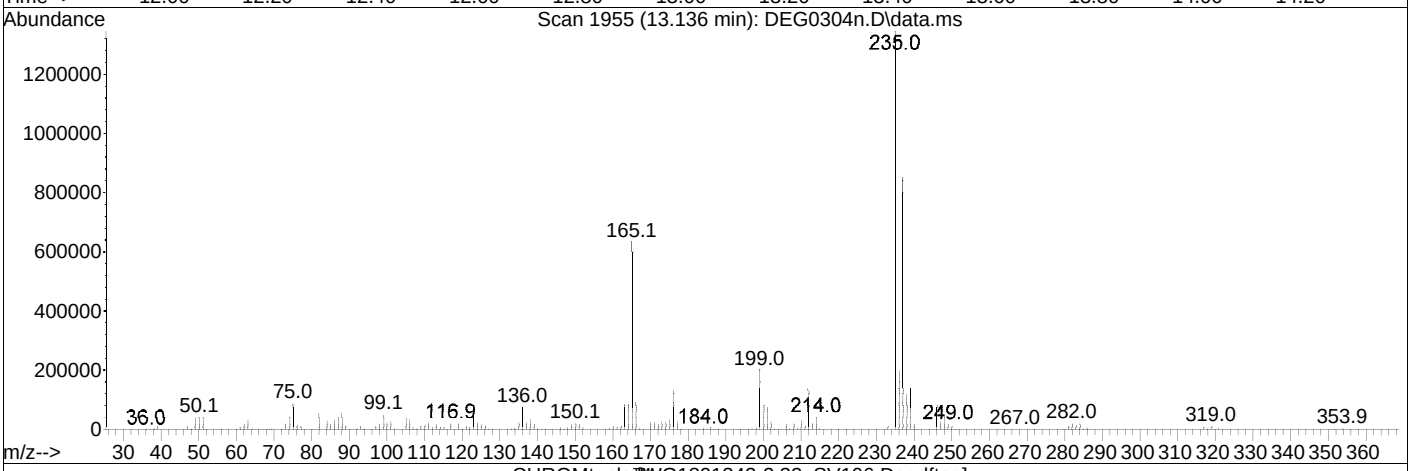
There are no manual integrations or false positives in this file.

Quantitation Report (Qedit)

Data Path : I:\8270\SV106\240304nlvi\
Data File : DEG0304n.D
Acq On : 4 Mar 2024 11:46 pm
Operator : SV106:ljg
Sample : WG1891342-2,32,,SV106 Degdftpp
Misc : WG1891342,,ical20337
ALS Vial : 141 Sample Multiplier: 1

Quant Time: Mar 05 00:06:41 2024
Quant Method : I:\8270\SV106\240304nlvi\DftppSV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Mar 05 00:07:10 2024
Response via : Initial Calibration





CHROMtools™ [WG1891342-2,32,,SV106 Degdftpp]

(6) DDT (T)

13.136min (-0.000) 192.64

response 1174301

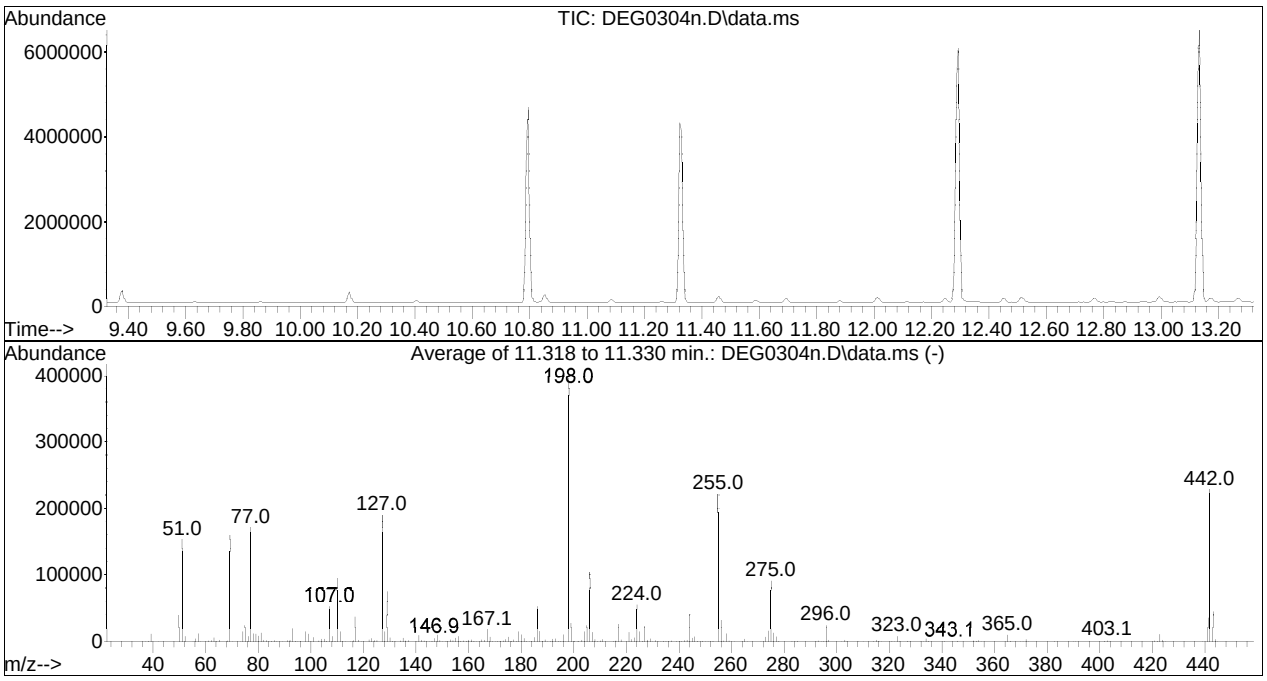
Ion	Exp%	Act%
235.10	100.00	100.00
237.00	63.30	63.81
165.10	44.50	49.59
199.10	14.80	15.17

DFTPP

Data Path : I:\8270\SV106\240304nlvi\
Data File : DEG0304n.D
Acq On : 4 Mar 2024 11:46 pm
Operator : SV106: ASK
Sample : WG1891342-1,32,,SV106 Degdftpp
Misc : WG1891342,,ical20337
ALS Vial : 141 Sample Multiplier: 1

Integration File: rteint.p

Method : I:\8270\SV106\240304nlvi\FS230902SV106.m
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Tue Mar 05 01:42:16 2024



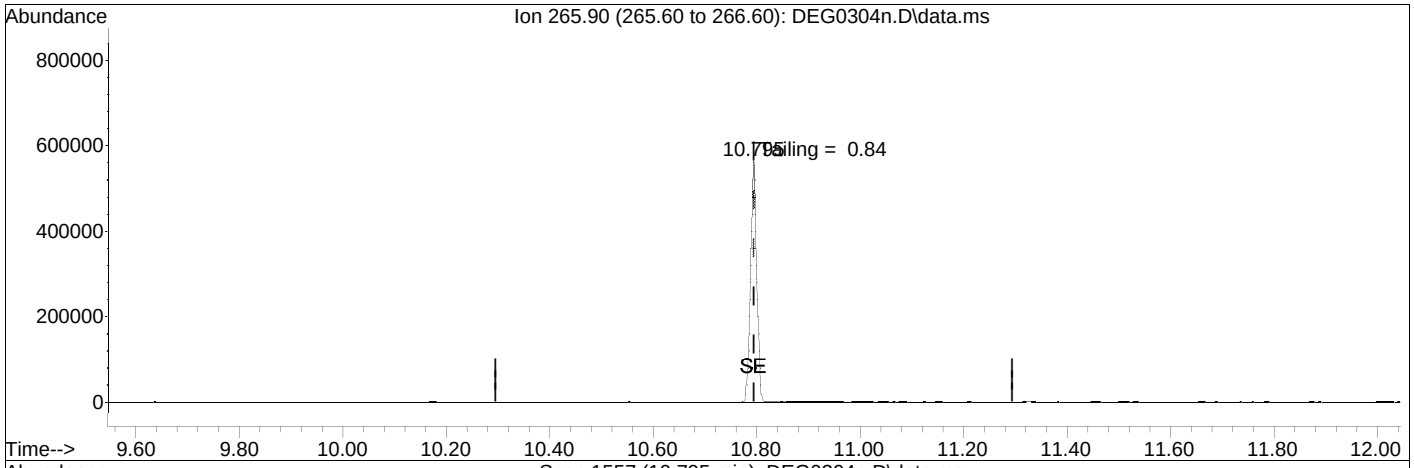
Spectrum Information: Average of 11.318 to 11.330 min.

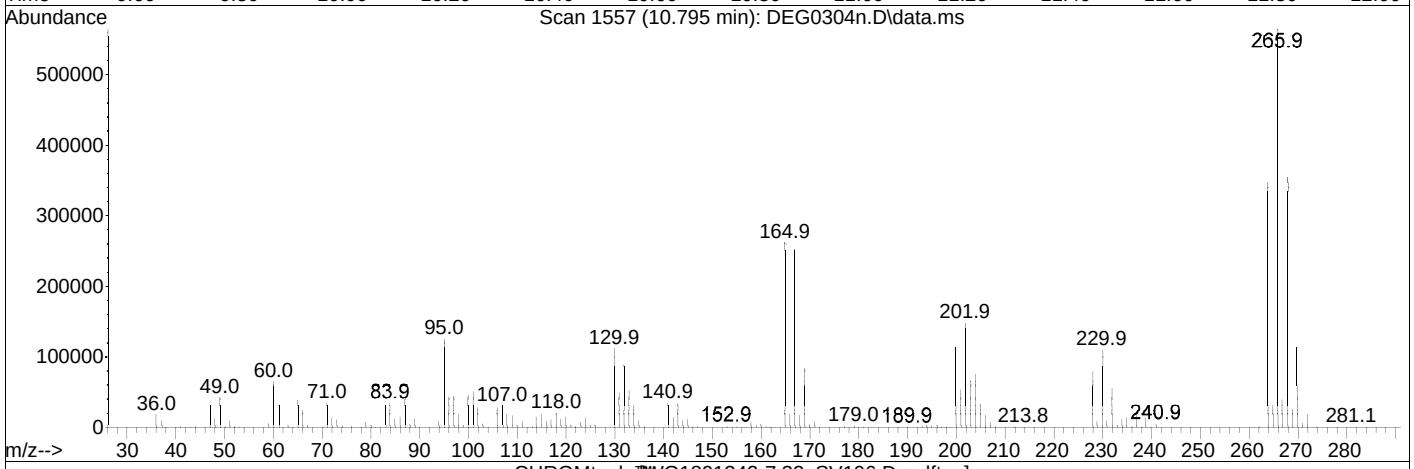
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	38.5	152526	PASS
68	69	0.00	2	1.1	1753	PASS
69	69	100	100	100.0	158903	PASS
70	69	0.00	2	0.5	734	PASS
127	198	10	80	47.8	189456	PASS
197	198	0.00	2	0.1	523	PASS
198	198	100	100	100.0	396459	PASS
199	198	5	9	6.9	27303	PASS
275	198	10	60	22.8	90536	PASS
365	198	1	100	2.5	9788	PASS
441	442	0.01	24	15.2	34616	PASS
442	198	50	100	57.5	228021	PASS
443	442	15	24	19.6	44794	PASS

Quantitation Report (Qedit)

Data Path : I:\8270\SV106\240304nlvi\
Data File : DEG0304n.D
Acq On : 4 Mar 2024 11:46 pm
Operator : SV106:ljg
Sample : WG1891342-7,32,,SV106 Degdftpp
Misc : WG1891342,,ical20337
ALS Vial : 141 Sample Multiplier: 1

Quant Time: Mar 05 00:06:41 2024
Quant Method : I:\8270\SV106\240304nlvi\DftppSV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Mar 05 00:07:10 2024
Response via : Initial Calibration





CHROMtools™ [WG1891342-7,32,,SV106 Degdftpp]

(1) Pentachlorophenol (T)

10.795min (-0.000) 209.60

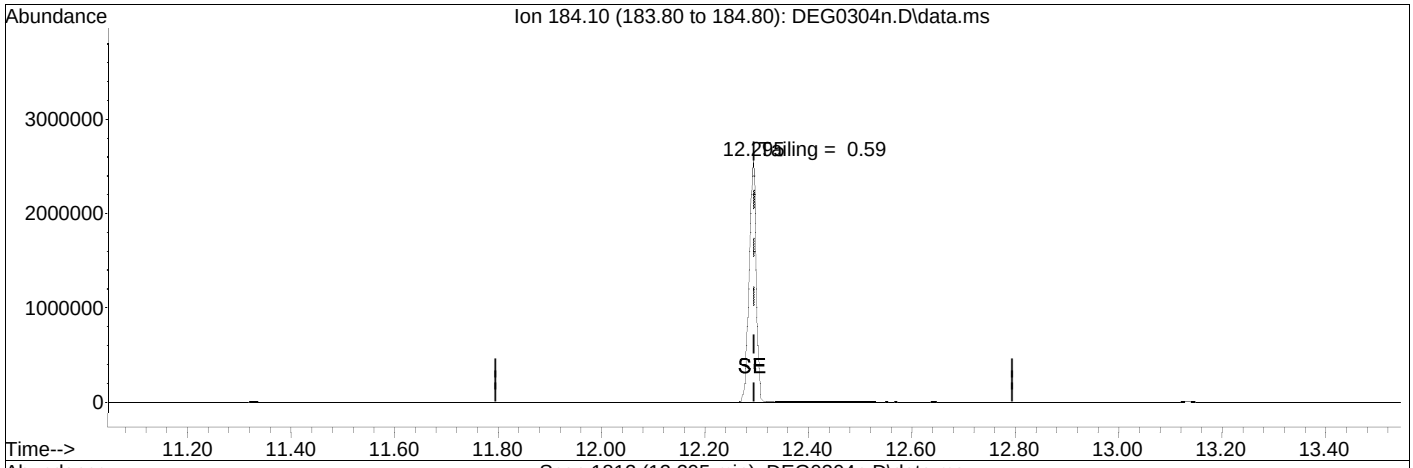
response 440245

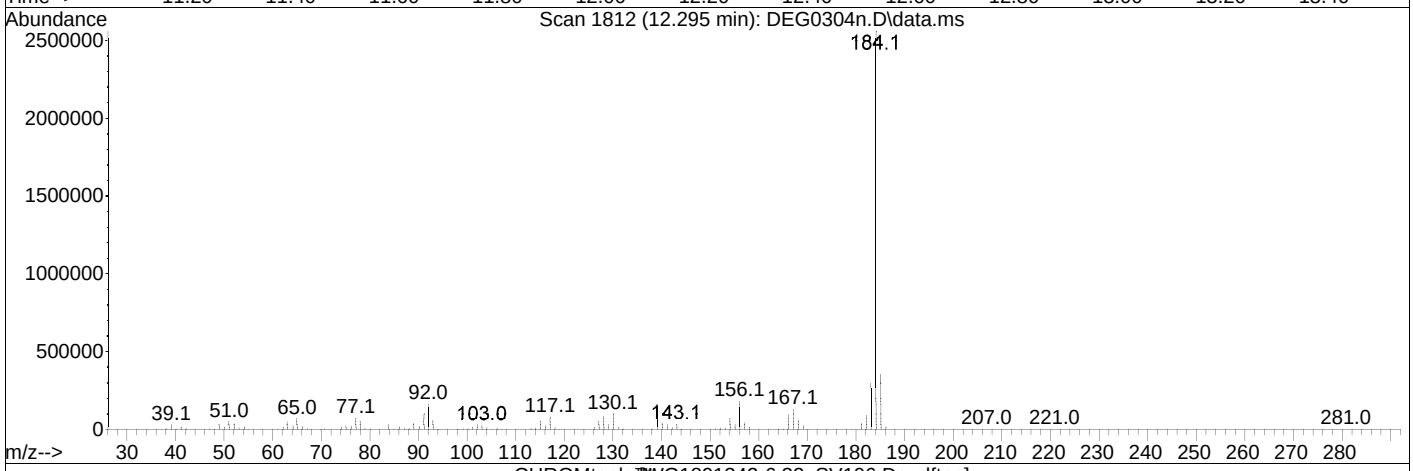
Ion	Exp%	Act%
265.90	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\8270\SV106\240304nlvi\
Data File : DEG0304n.D
Acq On : 4 Mar 2024 11:46 pm
Operator : SV106:ljg
Sample : WG1891342-6,32,,SV106 Degdftpp
Misc : WG1891342,,ical20337
ALS Vial : 141 Sample Multiplier: 1

Quant Time: Mar 05 00:06:41 2024
Quant Method : I:\8270\SV106\240304nlvi\DftppSV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Mar 05 00:07:10 2024
Response via : Initial Calibration





CHROMtools™ [WG1891342-6,32,,SV106 Degdftpp]

(3) Benzidine (T)

12.295min (-0.000) 225.29

response 2293489

Ion	Exp%	Act%
184.10	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Semivolatiles Raw QC Data

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240302lvi\
Data File : 891419-1.D
Acq On : 2 Mar 2024 2:39 pm
Operator : Dakota:sz
Sample : WG1891419-1,32,,cmm
Misc : wg1891492,WG1891419,ical20900
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 04 08:52:24 2024
Quant Method : I:\8270\dakota\240302lvi\FS240228LVIDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Mar 02 15:16:34 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\240302lvi\ABN0302.D
: 2 - I:\8270\Dakota\240302lvi\APDP0302.D
Sub List : 8270TCL_REV2 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	4.776	152	24242	4.000	ug/ml	0.00
Standard Area 1 = 24014			Recovery = 100.95%			
27) IS2_1,4-Dichlorobenzen...	4.776	152	24242	4.000	ug/ml	0.00
Standard Area 2 = 20026			Recovery = 121.05%			
33) IS1_Naphthalene-d8	6.010	136	86881	4.000	ug/ml	# 0.00
Standard Area 1 = 81733			Recovery = 106.30%			
53) IS2_Naphthalene-d8	6.010	136	86881	4.000	ug/ml	# 0.00
Standard Area 2 = 70682			Recovery = 122.92%			
61) IS1_Acenaphthene-d10	7.714	164	57696	4.000	ug/ml	0.00
Standard Area 1 = 56426			Recovery = 102.25%			
81) IS2_Acenaphthene-d10	7.714	164	57696	4.000	ug/ml	0.00
Standard Area 2 = 48337			Recovery = 119.36%			
85) IS1_Phenanthrene-d10	9.143	188	128711	4.000	ug/ml	0.00
Standard Area 1 = 126344			Recovery = 101.87%			
100) IS1_Chrysene-d12	11.776	240	128558	4.000	ug/ml	# 0.00
Standard Area 1 = 137232			Recovery = 93.68%			
109) IS1_Perylene-d12	13.240	264	160579	4.000	ug/ml	0.00
Standard Area 1 = 160070			Recovery = 100.32%			
System Monitoring Compounds						
4) 2-Fluorophenol	3.511	112	15099	2.327	ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 46.54%			
7) Phenol-d6	4.456	99	17605	2.100	ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 42.00%			
19) Nitrobenzene-d5	5.320	82	9474	1.254	ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 50.16%			
44) 2-Fluorobiphenyl	7.076	172	26717	1.372	ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 54.88%			
77) 2,4,6-Tribromophenol	8.475	330	10522	2.776	ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 55.52%			
93) 4-Terphenyl-d14	10.716	244	46691	1.389	ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 55.56%			
Target Compounds						Qvalue
6) 2-Chlorophenol	0.000		0	N.D.		
8) Phenol	0.000		0	N.D.		
9) Bis(2-chloroethyl)ether	0.000		0	N.D.		

Data Path : I:\8270\Dakota\240302lvi\
Data File : 891419-1.D
Acq On : 2 Mar 2024 2:39 pm
Operator : Dakota:sz
Sample : WG1891419-1,32,,cmm
Misc : wg1891492,WG1891419,ical20900
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 04 08:52:24 2024
Quant Method : I:\8270\dakota\240302lvi\FS240228LVIDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Mar 02 15:16:34 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\240302lvi\ABN0302.D
: 2 - I:\8270\Dakota\240302lvi\APDP0302.D
Sub List : 8270TCL_REV2 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
14) Bis(2-chloroisopropyl)...	0.000		0		N.D.	
15) 2-Methylphenol	0.000		0		N.D.	
17) n-Nitrosodi-n-propylamine	0.000		0		N.D.	d
18) 3-Methylphenol/4-Methy...	0.000		0		N.D.	
20) Nitrobenzene	0.000		0		N.D.	
21) Isophorone	0.000		0		N.D.	
22) 2-Nitrophenol	0.000		0		N.D.	
23) 2,4-Dimethylphenol	0.000		0		N.D.	
24) Bis(2-chloroethoxy)met...	0.000		0		N.D.	
25) 2,4-Dichlorophenol	0.000		0		N.D.	
28) Benzaldehyde	0.000		0		N.D.	
29) Acetophenone	0.000		0		N.D.	
36) 4-Chloroaniline	0.000		0		N.D.	
38) p-Chloro-m-cresol	0.000		0		N.D.	
41) Hexachlorocyclopentadiene	0.000		0		N.D.	
42) 2,4,6-Trichlorophenol	0.000		0		N.D.	
43) 2,4,5-Trichlorophenol	0.000		0		N.D.	
46) 2-Nitroaniline	0.000		0		N.D.	
49) Dimethyl phthalate	0.000		0		N.D.	d
51) 2,6-Dinitrotoluene	0.000		0		N.D.	d
58) Caprolactam	0.000		0		N.D.	d
59) 1,2,4,5-Tetrachloroben...	0.000		0		N.D.	
60) Biphenyl	0.000		0		N.D.	
62) 3-Nitroaniline	0.000		0		N.D.	
64) 2,4-Dinitrophenol	0.000		0		N.D.	
65) Dibenzofuran	0.000		0		N.D.	
66) 2,4-Dinitrotoluene	0.000		0		N.D.	d
67) 4-Nitrophenol	0.000		0		N.D.	
69) 2,3,4,6-Tetrachlorophenol	0.000		0		N.D.	
70) Diethyl phthalate	0.000		0		N.D.	d
72) 4-Chlorophenyl phenyl ...	0.000		0		N.D.	
73) 4-Nitroaniline	0.000		0		N.D.	
74) 4,6-Dinitro-o-cresol	0.000		0		N.D.	
75) NDPA/DPA	0.000		0		N.D.	
78) 4-Bromophenyl phenyl e...	0.000		0		N.D.	
84) Atrazine	0.000		0		N.D.	
88) Carbazole	0.000		0		N.D.	
89) Di-n-butylphthalate	0.000		0		N.D.	d

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240302lvi\
Data File : 891419-1.D
Acq On : 2 Mar 2024 2:39 pm
Operator : Dakota:sz
Sample : WG1891419-1,32,,cmm
Misc : wg1891492,WG1891419,ical20900
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 04 08:52:24 2024
Quant Method : I:\8270\dakota\240302lvi\FS240228LVIDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Mar 02 15:16:34 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\240302lvi\ABN0302.D
: 2 - I:\8270\Dakota\240302lvi\APDP0302.D
Sub List : 8270TCL_REV2 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
94) Butyl benzyl phthalate	0.000		0	N.D.	d	
102) 3,3'-Dichlorobenzidine	0.000		0	N.D.		
104) Bis(2-ethylhexyl)phtha...	11.875	149	9751	0.630	ug/ml#	93
105) Di-n-octylphthalate	0.000		0	N.D.	d	

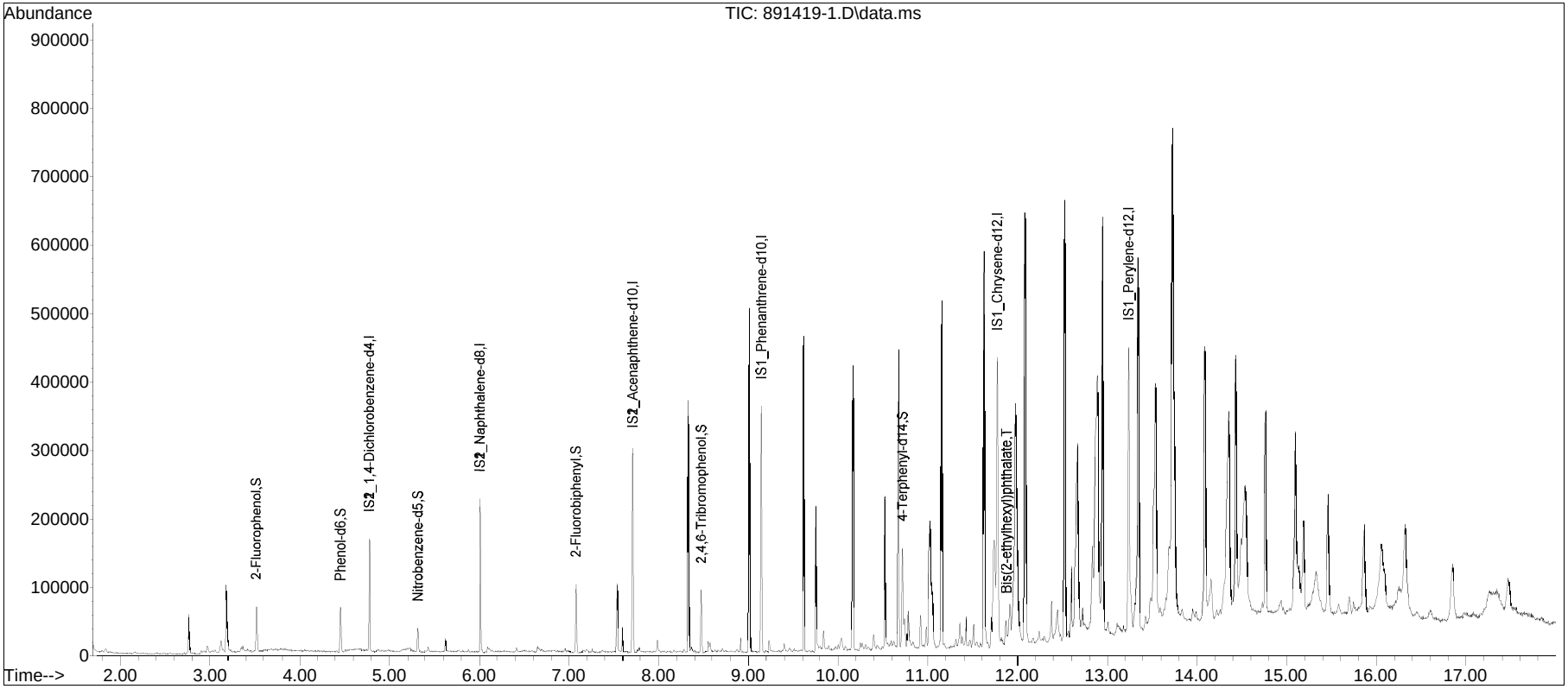
(#) = qualifier out of range (m) = manual integration (+) = signals summed

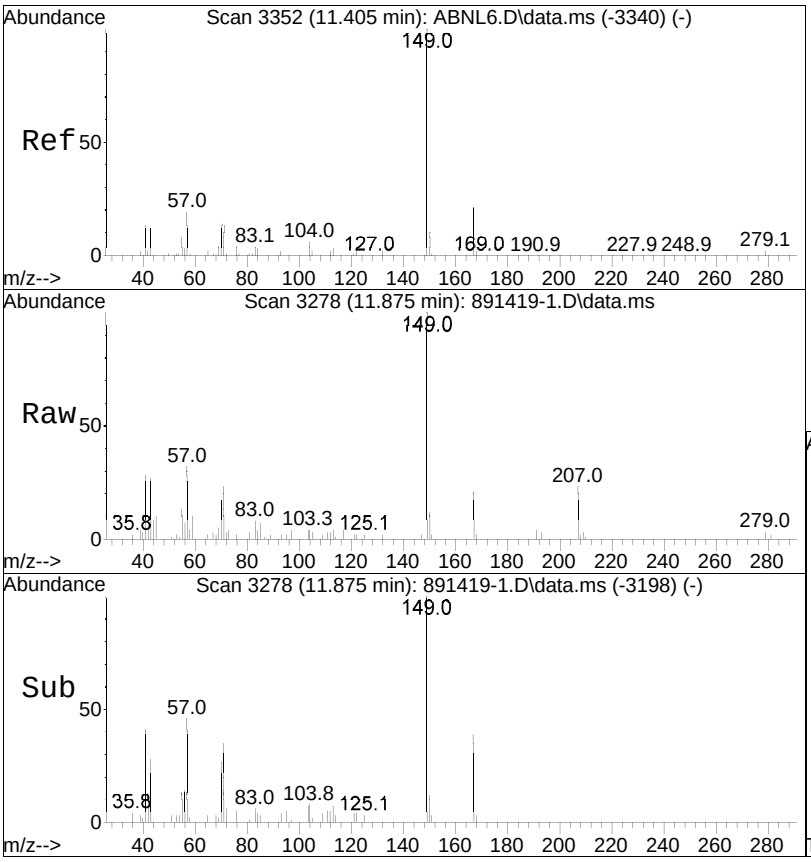
Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240302lvi\
Data File : 891419-1.D
Acq On : 2 Mar 2024 2:39 pm
Operator : Dakota:sz
Sample : WG1891419-1,32,,cmm
Misc : wg1891492,WG1891419,ical20900
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 04 08:52:24 2024
Quant Method : I:\8270\dakota\240302lvi\FS240228LVIDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Mar 02 15:16:34 2024
Response via : Initial Calibration

Sub List : 8270TCL_REV2 - TCL/CT/MA2lvi\APDP0302.D•

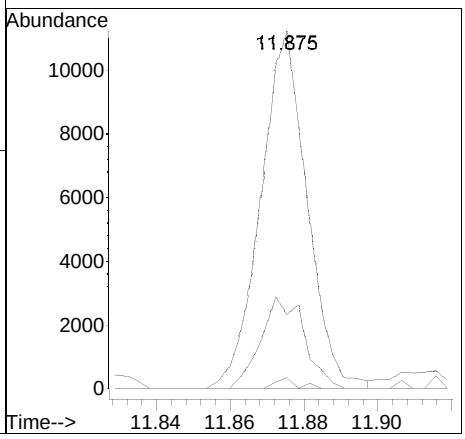




#104
Bis(2-ethylhexyl)phthalate
Concen: 0.63 ug/ml
RT: 11.875 min Scan# 3278
Delta R.T. 0.000 min
Lab File: 891419-1.D
Acq: 2 Mar 2024 2:39 pm

Tgt Ion:149 Resp: 9751

Ion	Ratio	Lower	Upper
149	100		
167	24.1	22.1	33.1
279	0.0	3.0	4.4#



Manual Integration Report

Data Path	: I:\8270\Dakota\240302lvi\	QMethod	: FS240228LVIDakota.m
Data File	: 891419-1.D	Operator	: Dakota:sz
Date Inj'd	: 3/2/2024 2:39 pm	Instrument	: Dakota
Sample	: WG1891419-1,32,,cmm	Quant Date	: 3/2/2024 3:19 pm

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240304nlvi\
Data File : 892048-1.D
Acq On : 5 Mar 2024 6:07 am
Operator : SV106:ljg
Sample : WG1892048-1,32,,gmr
Misc : WG1891342,WG1892048,ical20337
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Mar 05 13:20:21 2024
Quant Method : I:\8270\SV106\240304nlvi\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Mar 05 11:20:52 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv106\240304nlvi\ABN0304n.D
: 2 - I:\8270\sv106\240304nlvi\ADP0304n.D
: 3 - I:\8270\sv106\240304nlvi\AP90304n.D
Sub List : 8270TCL_REV2 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	6.325	152	53489	4.000	ug/ml	0.00
Standard Area 1 = 44264			Recovery = 120.84%			
27) IS2_1,4-Dichlorobenzen...	6.325	152	53489	4.000	ug/ml	0.00
Standard Area 3 = 45624			Recovery = 117.24%			
32) IS3_1,4-Dichlorobenzen...	6.325	152	53489	4.000	ug/ml	0.00
Standard Area 2 = 44909			Recovery = 119.11%			
34) IS1_Naphthalene-d8	7.760	136	194299	4.000	ug/ml	0.00
Standard Area 1 = 170941			Recovery = 113.66%			
54) IS2_Naphthalene-d8	7.760	136	194299	4.000	ug/ml	0.00
Standard Area 3 = 165553			Recovery = 117.36%			
62) IS1_Acenaphthene-d10	9.524	164	121470	4.000	ug/ml	0.00
Standard Area 1 = 107442			Recovery = 113.06%			
82) IS2_Acenaphthene-d10	9.524	164	121470	4.000	ug/ml	0.00
Standard Area 3 = 100303			Recovery = 121.10%			
85) IS3_Acenaphthene-d10	9.524	164	121470	4.000	ug/ml	0.00
Standard Area 2 = 98087			Recovery = 123.84%			
87) IS1_Phenanthrene-d10	10.960	188	238628	4.000	ug/ml	0.00
Standard Area 1 = 227092			Recovery = 105.08%			
99) IS3_Phenanthrene-d10	10.960	188	238628	4.000	ug/ml	0.00
Standard Area 2 = 217156			Recovery = 109.89%			
103) IS1_Chrysene-d12	13.583	240	191734	4.000	ug/ml	0.00
Standard Area 1 = 207444			Recovery = 92.43%			
112) IS1_Perylene-d12	15.042	264	227736	4.000	ug/ml	0.00
Standard Area 1 = 227846			Recovery = 99.95%			
System Monitoring Compounds						
4) 2-Fluorophenol	4.342	112	31040	2.081	ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 41.62%			
7) Phenol-d6	5.966	99	34090	1.774	ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 35.48%			
19) Nitrobenzene-d5	6.989	82	24715	1.418	ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 56.72%			
45) 2-Fluorobiphenyl	8.889	172	55337	1.492	ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 59.68%			
78) 2,4,6-Tribromophenol	10.295	330	11941	2.142	ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 42.84%			

Data Path : I:\8270\SV106\240304nlvi\
Data File : 892048-1.D
Acq On : 5 Mar 2024 6:07 am
Operator : SV106:ljg
Sample : WG1892048-1,32,,gmr
Misc : WG1891342,WG1892048,ical20337
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Mar 05 13:20:21 2024
Quant Method : I:\8270\SV106\240304nlvi\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Mar 05 11:20:52 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv106\240304nlvi\ABN0304n.D
: 2 - I:\8270\sv106\240304nlvi\ADP0304n.D
: 3 - I:\8270\sv106\240304nlvi\AP90304n.D
Sub List : 8270TCL_REV2 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
95) 4-Terphenyl-d14	12.542	244	66829	1.277	ug/ml	0.00

Spiked Amount 2.500 Range 30 - 130 Recovery = 51.08%

Target Compounds				Qvalue
6) 2-Chlorophenol	0.000	0	N.D.	
8) Phenol	0.000	0	N.D.	
9) Bis(2-chloroethyl)ether	0.000	0	N.D.	
14) Bis(2-chloroisopropyl)...	0.000	0	N.D.	
15) 2-Methylphenol	0.000	0	N.D.	
17) n-Nitrosodi-n-propylamine	0.000	0	N.D.	d
18) 3-Methylphenol/4-Methy...	0.000	0	N.D.	
20) Nitrobenzene	0.000	0	N.D.	
21) Isophorone	0.000	0	N.D.	
22) 2-Nitrophenol	0.000	0	N.D.	
23) 2,4-Dimethylphenol	0.000	0	N.D.	
24) Bis(2-chloroethoxy)met...	0.000	0	N.D.	
25) 2,4-Dichlorophenol	0.000	0	N.D.	
28) Benzaldehyde	0.000	0	N.D.	
29) Acetophenone	0.000	0	N.D.	
37) 4-Chloroaniline	0.000	0	N.D.	
39) p-Chloro-m-cresol	0.000	0	N.D.	
42) Hexachlorocyclopentadiene	0.000	0	N.D.	
43) 2,4,6-Trichlorophenol	0.000	0	N.D.	
44) 2,4,5-Trichlorophenol	0.000	0	N.D.	
47) 2-Nitroaniline	0.000	0	N.D.	
50) Dimethyl phthalate	0.000	0	N.D.	d
52) 2,6-Dinitrotoluene	0.000	0	N.D.	d
59) Caprolactam	0.000	0	N.D.	
60) 1,2,4,5-Tetrachloroben...	0.000	0	N.D.	
61) Biphenyl	0.000	0	N.D.	
63) 3-Nitroaniline	0.000	0	N.D.	
65) 2,4-Dinitrophenol	0.000	0	N.D.	
66) Dibenzofuran	0.000	0	N.D.	
67) 2,4-Dinitrotoluene	0.000	0	N.D.	d
68) 4-Nitrophenol	0.000	0	N.D.	d
70) 2,3,4,6-Tetrachlorophenol	0.000	0	N.D.	
71) Diethyl phthalate	0.000	0	N.D.	

Data Path : I:\8270\SV106\240304nlvi\
Data File : 892048-1.D
Acq On : 5 Mar 2024 6:07 am
Operator : SV106:ljg
Sample : WG1892048-1,32,,gmr
Misc : WG1891342,WG1892048,ical20337
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Mar 05 13:20:21 2024
Quant Method : I:\8270\SV106\240304nlvi\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Mar 05 11:20:52 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv106\240304nlvi\ABN0304n.D
: 2 - I:\8270\sv106\240304nlvi\ADP0304n.D
: 3 - I:\8270\sv106\240304nlvi\AP90304n.D
Sub List : 8270TCL_REV2 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
73) 4-Chlorophenyl phenyl ...	0.000		0	N.D.		
74) 4-Nitroaniline	0.000		0	N.D.		
75) 4,6-Dinitro-o-cresol	0.000		0	N.D.		
76) NDPA/DPA	0.000		0	N.D.		
79) 4-Bromophenyl phenyl e...	0.000		0	N.D.		
86) Atrazine	0.000		0	N.D.		
90) Carbazole	0.000		0	N.D.		
91) Di-n-butylphthalate	0.000		0	N.D.	d	
96) Butyl benzyl phthalate	0.000		0	N.D.	d	
105) 3,3'-Dichlorobenzidine	0.000		0	N.D.		
107) Bis(2-ethylhexyl)phtha...	0.000		0	N.D.	d	
108) Di-n-octylphthalate	0.000		0	N.D.	d	

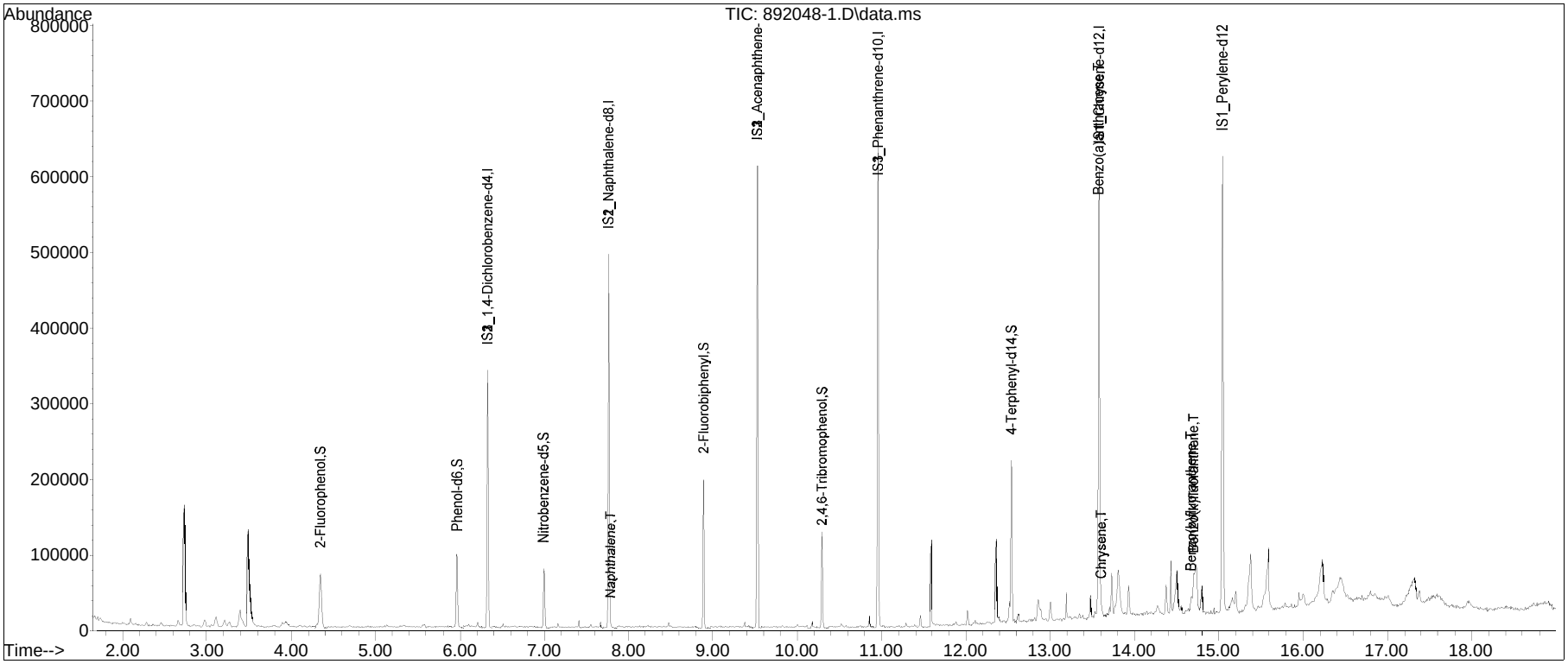
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240304nlvi\
Data File : 892048-1.D
Acq On : 5 Mar 2024 6:07 am
Operator : SV106:ljg
Sample : WG1892048-1,32,,gmr
Misc : WG1891342,WG1892048,ical20337
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Mar 05 13:20:21 2024
Quant Method : I:\8270\SV106\240304nlvi\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Mar 05 11:20:52 2024
Response via : Initial Calibration

Sub List : 8270TCL_REV2 - TCL/CT/MAnlvi\AP90304n.D•



LSC Area Percent Report

Data Path : I:\8270\SV106\240304nlvi\
Data File : 892048-1.D
Acq On : 5 Mar 2024 6:07 am
Operator : SV106:ljg
Sample : WG1892048-1,32,,gmr
Misc : WG1891342,WG1892048,ical20337
ALS Vial : 13 Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 500 Area counts
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : I:\8270\SV106\240304nlvi\FS230902SV106.m
Title : Semivolatiles by GC/MS by modified 8270

Signal : TIC: 892048-1.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.737	14	17	21	rVB3	5217	7601	1.19%	0.118%
2	2.095	73	78	84	rVB5	8463	11503	1.81%	0.179%
3	2.278	106	109	113	rVB4	5146	6712	1.05%	0.104%
4	2.654	169	173	178	rBV2	8023	12109	1.90%	0.188%
5	2.731	181	186	196	rVB	159648	233531	36.67%	3.634%
6	2.972	221	227	233	rBV6	9358	17793	2.79%	0.277%
7	3.113	246	251	257	rVB5	12808	21493	3.37%	0.334%
8	3.213	262	268	273	rVV4	9244	16043	2.52%	0.250%
9	3.272	273	278	282	rVB3	6722	12249	1.92%	0.191%
10	3.390	291	298	310	rBV3	22554	62193	9.77%	0.968%
11	3.484	310	314	332	rVB	127669	254806	40.01%	3.966%
12	3.890	377	383	385	rBV5	6125	8778	1.38%	0.137%
13	4.307	449	454	455	rBV4	5529	7182	1.13%	0.112%
14	4.342	455	460	468	rVB	71431	120637	18.94%	1.877%
15	5.578	668	670	675	rVB5	4547	7278	1.14%	0.113%
16	5.960	731	735	740	rBV	96082	99063	15.56%	1.542%
17	6.201	772	776	782	rBV	5683	7433	1.17%	0.116%
18	6.325	793	797	802	rBV	340046	317621	49.87%	4.943%
19	6.989	907	910	915	rVB	77992	75241	11.81%	1.171%
20	7.401	977	980	985	rVB	8959	8860	1.39%	0.138%
21	7.760	1037	1041	1045	rBV	493490	409615	64.32%	6.375%
22	8.472	1158	1162	1165	rBV4	5769	6407	1.01%	0.100%
23	8.889	1229	1233	1236	rVB	195719	163296	25.64%	2.541%
24	9.377	1309	1316	1319	rBV3	6395	7440	1.17%	0.116%
25	9.524	1337	1341	1345	rVB	610099	509955	80.08%	7.936%
26	10.171	1448	1451	1454	rBV4	8018	7818	1.23%	0.122%
27	10.289	1468	1471	1475	rBV	126211	109727	17.23%	1.708%
28	10.524	1507	1511	1517	rVB2	4754	6788	1.07%	0.106%

LSC Area Percent Report

Data Path : I:\8270\SV106\240304nlvi\
Data File : 892048-1.D
Acq On : 5 Mar 2024 6:07 am
Operator : SV106:ljg
Sample : WG1892048-1,32,,gmr
Misc : WG1891342,WG1892048,ical20337
ALS Vial : 13 Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 500 Area counts
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : I:\8270\SV106\240304nlvi\FS230902SV106.m
Title : Semivolatiles by GC/MS by modified 8270

29	10.854	1564	1567	1571	rVB2	15213	14610	2.29%	0.227%
30	10.960	1581	1585	1589	rBV	663494	573753	90.09%	8.929%
31	11.460	1664	1670	1673	rBV	15926	16618	2.61%	0.259%
32	11.589	1688	1692	1698	rBV	113810	107148	16.82%	1.668%
33	12.013	1761	1764	1767	rBV2	19289	18657	2.93%	0.290%
34	12.360	1819	1823	1827	rBV2	110220	107671	16.91%	1.676%
35	12.518	1846	1850	1851	rBV	25888	22193	3.48%	0.345%
36	12.542	1851	1854	1857	rVB	212399	189877	29.82%	2.955%
37	12.618	1863	1867	1871	rBV2	11784	17053	2.68%	0.265%
38	12.860	1903	1908	1912	rBV	28277	51928	8.15%	0.808%
39	13.001	1927	1932	1939	rBV	25285	33563	5.27%	0.522%
40	13.189	1960	1964	1968	rBV2	35741	38238	6.00%	0.595%
41	13.471	2008	2012	2016	rBV	30195	38273	6.01%	0.596%
42	13.536	2021	2023	2026	rBV4	8699	9868	1.55%	0.154%
43	13.583	2026	2031	2040	rVB	591630	636841	100.00%	9.911%
44	13.707	2049	2052	2053	rBV	10200	7166	1.13%	0.112%
45	13.730	2053	2056	2060	rVV	53843	53552	8.41%	0.833%
46	13.765	2060	2062	2063	rVV2	10966	8924	1.40%	0.139%
47	13.807	2064	2069	2080	rVB3	57931	131575	20.66%	2.048%
48	13.930	2086	2090	2095	rBV	37948	44144	6.93%	0.687%
49	14.271	2145	2148	2153	rVB5	9322	14842	2.33%	0.231%
50	14.371	2161	2165	2171	rBV3	38480	45691	7.17%	0.711%
51	14.430	2171	2175	2179	rVV	69877	75096	11.79%	1.169%
52	14.501	2179	2187	2193	rVV3	58074	132897	20.87%	2.068%
53	14.554	2193	2196	2200	rVB6	10584	12254	1.92%	0.191%
54	14.677	2213	2217	2218	rBV4	17550	22034	3.46%	0.343%
55	14.701	2218	2221	2222	rBV2	33035	33649	5.28%	0.524%
56	14.795	2233	2237	2241	rVB2	35143	43734	6.87%	0.681%
57	15.042	2274	2279	2286	rBV	600950	631718	99.20%	9.831%
58	15.159	2291	2299	2303	rVV8	19907	52978	8.32%	0.824%
59	15.201	2303	2306	2312	rVB3	29154	38170	5.99%	0.594%
60	15.377	2328	2336	2346	rVB	75143	161399	25.34%	2.512%

LSC Area Percent Report

Data Path : I:\8270\SV106\240304nlvi\
Data File : 892048-1.D
Acq On : 5 Mar 2024 6:07 am
Operator : SV106:ljg
Sample : WG1892048-1,32,,gmr
Misc : WG1891342,WG1892048,ical20337
ALS Vial : 13 Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 500 Area counts
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : I:\8270\SV106\240304nlvi\FS230902SV106.m
Title : Semivolatiles by GC/MS by modified 8270

61	15.465	2347	2351	2352	rBV4	5924	7129	1.12%	0.111%
62	15.583	2357	2371	2382	rVB2	82165	241641	37.94%	3.761%
63	15.953	2430	2434	2437	rBV5	17844	25756	4.04%	0.401%
64	16.000	2440	2442	2449	rVB7	15349	26649	4.18%	0.415%
65	16.224	2471	2480	2487	rVB5	52781	152750	23.99%	2.377%
66	16.348	2497	2501	2505	rBV7	13392	26530	4.17%	0.413%
67	17.377	2672	2676	2683	rVB7	16070	29826	4.68%	0.464%

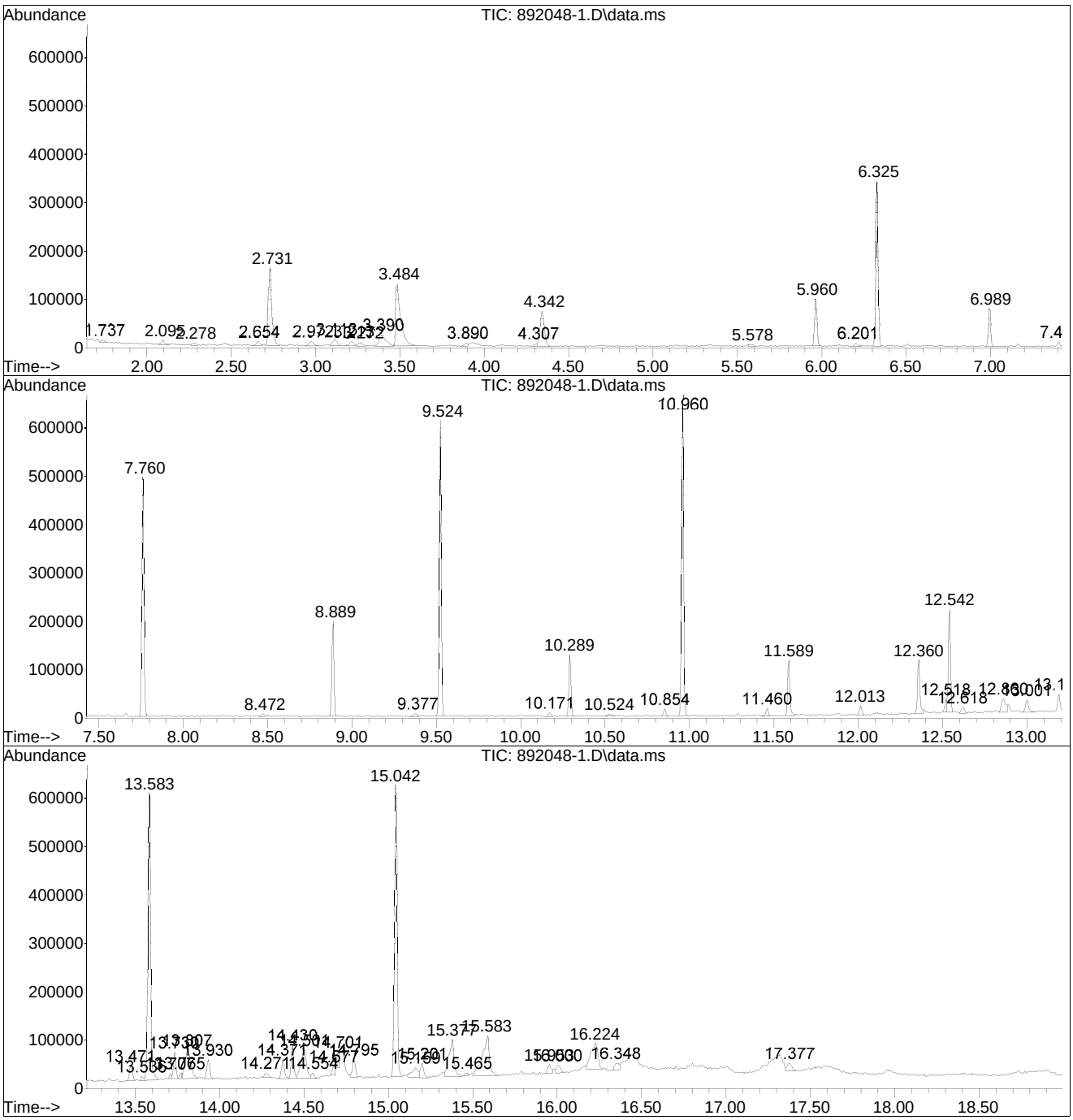
Sum of corrected areas: 6425567

LSC Report - Integrated Chromatogram

Data Path : I:\8270\SV106\240304nlvi\
Data File : 892048-1.D
Acq On : 5 Mar 2024 6:07 am
Operator : SV106:ljg
Sample : WG1892048-1,32,,gmr
Misc : WG1891342,WG1892048,ical20337
ALS Vial : 13 Sample Multiplier: 1

Quant Method : I:\8270\SV106\240304nlvi\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270

TIC Library : I:\nist-db\NIST02.L
TIC Integration Parameters: LSCINT.P



Library Search Compound Report

Data Path : I:\8270\SV106\240304nlvi\
Data File : 892048-1.D
Acq On : 5 Mar 2024 6:07 am
Operator : SV106:ljg
Sample : WG1892048-1,32,,gmr
Misc : WG1891342,WG1892048,ical20337
ALS Vial : 13 Sample Multiplier: 1

Quant Method : I:\8270\SV106\240304nlvi\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270

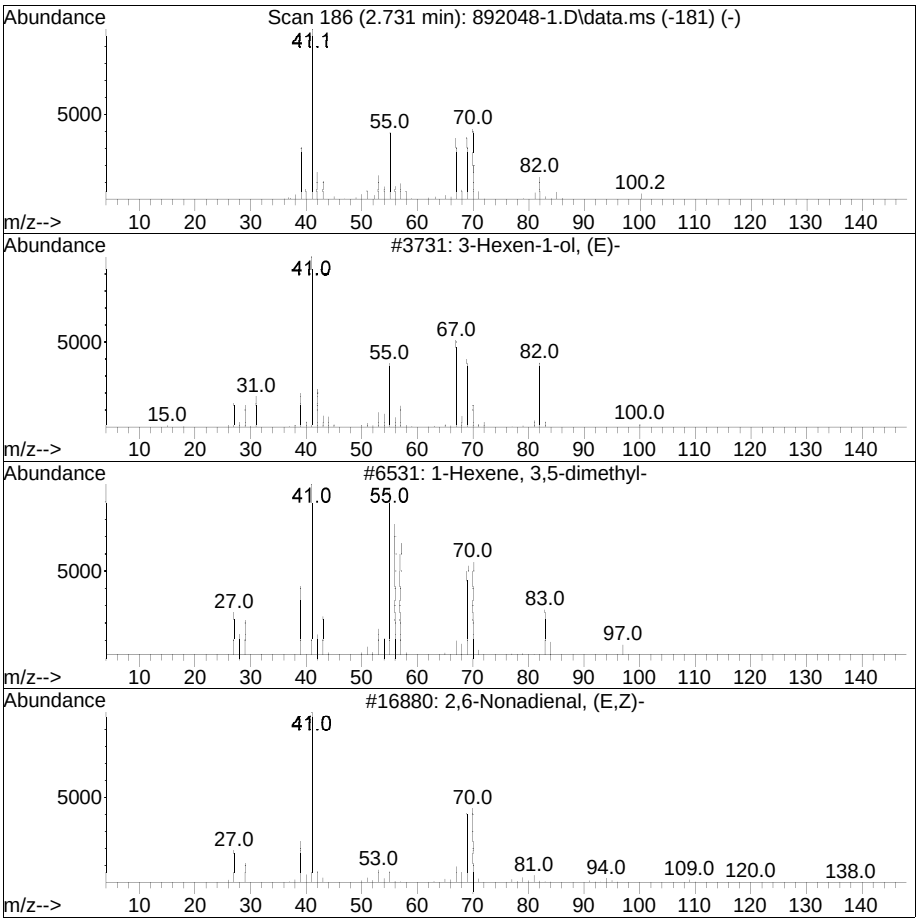
TIC Library : I:\nist-db\NIST02.L
TIC Integration Parameters: LSCINT.P

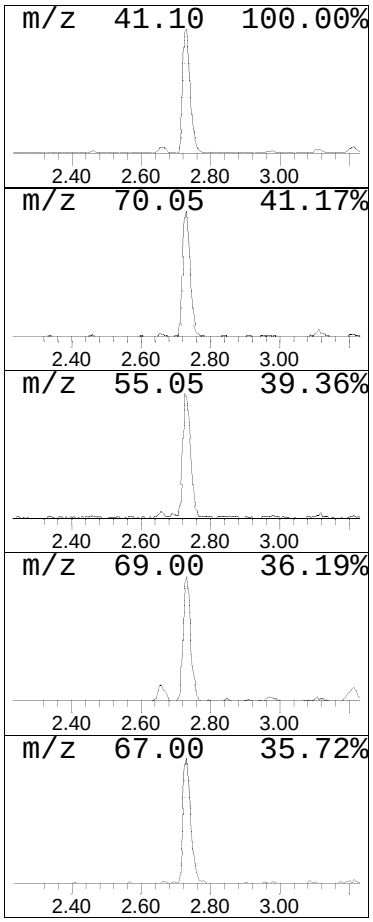
****

Peak Number 1 Unknown Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.731	2.94 ug/ml	233531	IS2_1,4-Dichlorobenzene-d4	6.325

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3-Hexen-1-ol, (E)-	100	C6H12O	000928-97-2	43
2	1-Hexene, 3,5-dimethyl-	112	C8H16	007423-69-0	38
3	2,6-Nonadienal, (E,Z)-	138	C9H14O	000557-48-2	37
4	(E)-1,3-Butadien-1-ol	70	C4H6O	070411-98-2	35
5	3-Penten-1-ol, 2-methyl-	100	C6H12O	062238-37-3	25





Library Search Compound Report

Data Path : I:\8270\SV106\240304nlvi\
Data File : 892048-1.D
Acq On : 5 Mar 2024 6:07 am
Operator : SV106:ljg
Sample : WG1892048-1,32,,gmr
Misc : WG1891342,WG1892048,ical20337
ALS Vial : 13 Sample Multiplier: 1

Quant Method : I:\8270\SV106\240304nlvi\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270

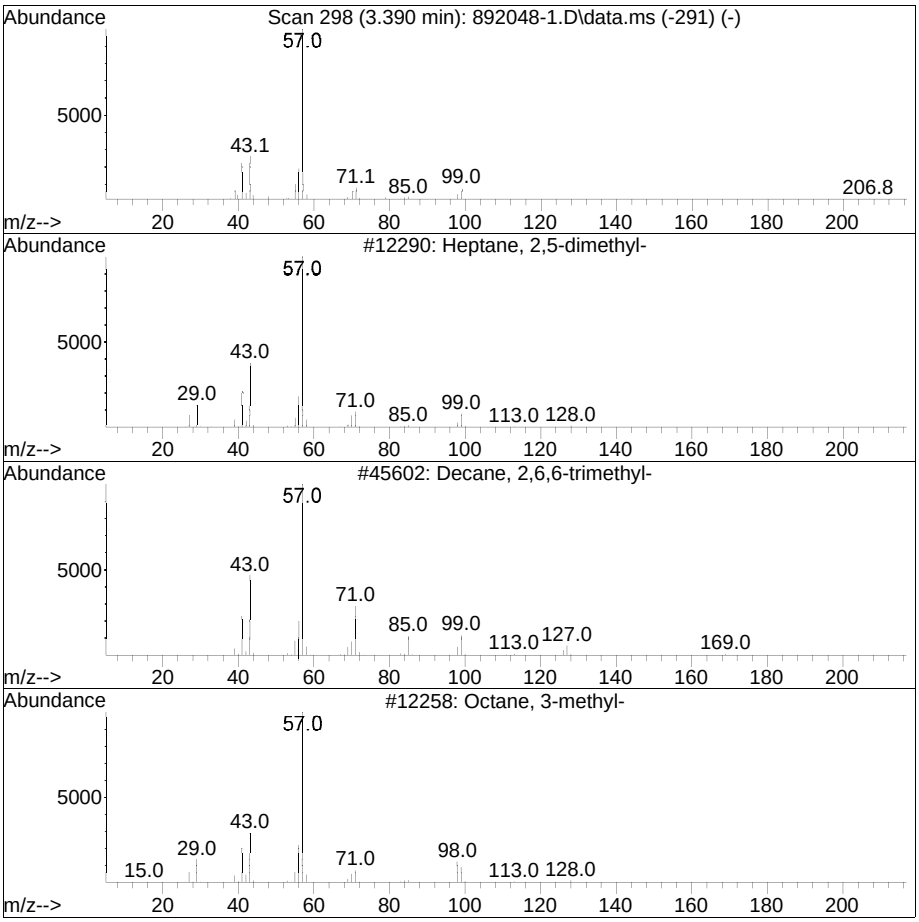
TIC Library : I:\nist-db\NIST02.L
TIC Integration Parameters: LSCINT.P

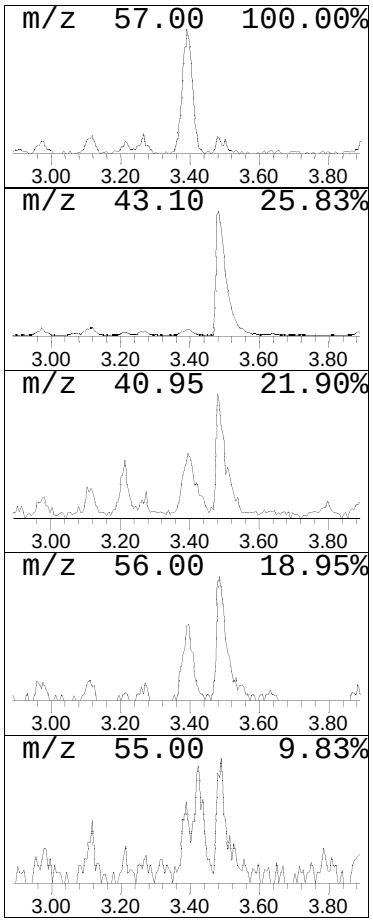
****

Peak Number 2 Unknown Alkane Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.390	0.78 ug/ml	62193	IS2_1,4-Dichlorobenzene-d4	6.325

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptane, 2,5-dimethyl-	128	C9H20	002216-30-0	59
2	Decane, 2,6,6-trimethyl-	184	C13H28	062108-24-1	53
3	Octane, 3-methyl-	128	C9H20	002216-33-3	53
4	Heptane, 3,5-dimethyl-	128	C9H20	000926-82-9	47
5	Decane, 2,5,9-trimethyl-	184	C13H28	062108-22-9	42





Library Search Compound Report

Data Path : I:\8270\SV106\240304nlvi\
Data File : 892048-1.D
Acq On : 5 Mar 2024 6:07 am
Operator : SV106:ljg
Sample : WG1892048-1,32,,gmr
Misc : WG1891342,WG1892048,ical20337
ALS Vial : 13 Sample Multiplier: 1

Quant Method : I:\8270\SV106\240304nlvi\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270

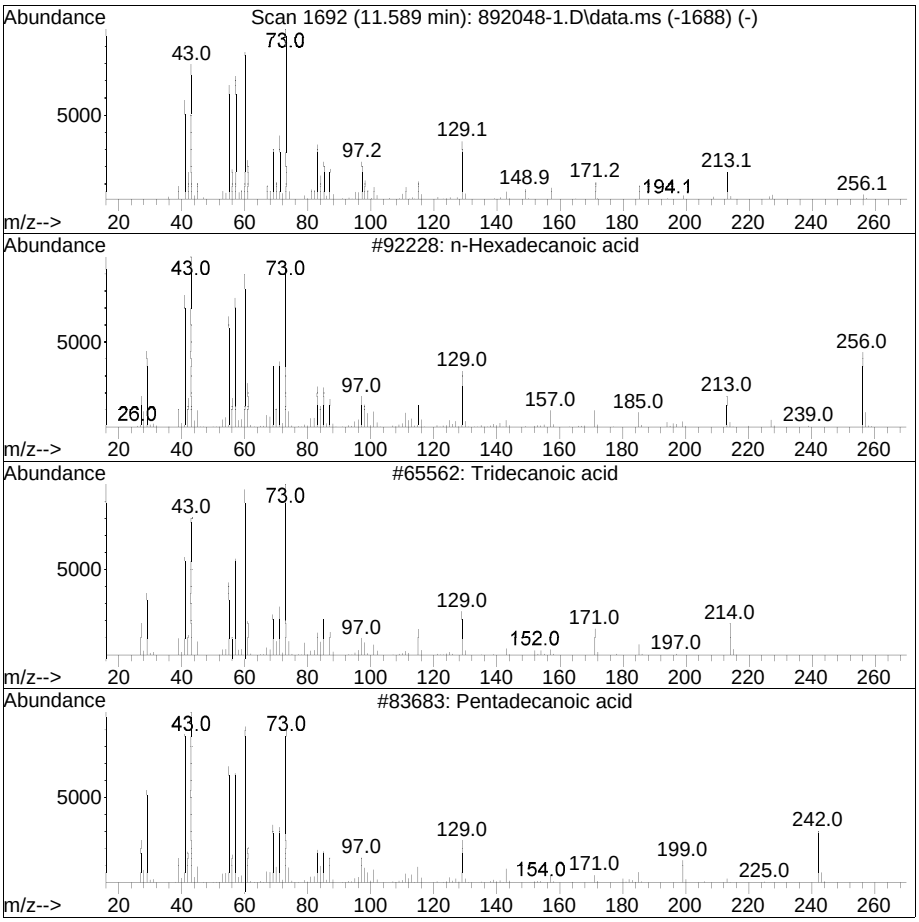
TIC Library : I:\nist-db\NIST02.L
TIC Integration Parameters: LSCINT.P

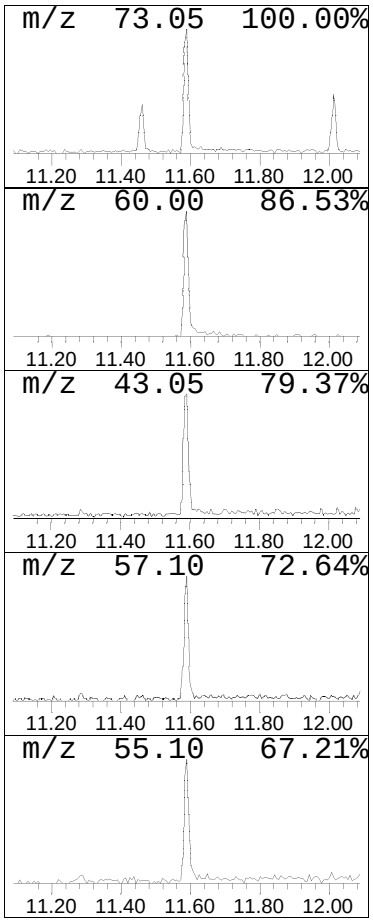
****

Peak Number 4 Unknown Organic Acid Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.589	0.75 ug/ml	107148	IS3_Phenanthrene-d10	10.960

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	96
2	Tridecanoic acid	214	C13H26O2	000638-53-9	83
3	Pentadecanoic acid	242	C15H30O2	001002-84-2	72
4	Tetradecanoic acid	228	C14H28O2	000544-63-8	64
5	.alpha.-D-Glucopyranoside, O-.al...	504	C18H32O16	000597-12-6	47





Library Search Compound Report

Data Path : I:\8270\SV106\240304nlvi\
Data File : 892048-1.D
Acq On : 5 Mar 2024 6:07 am
Operator : SV106:ljg
Sample : WG1892048-1,32,,gmr
Misc : WG1891342,WG1892048,ical20337
ALS Vial : 13 Sample Multiplier: 1

Quant Method : I:\8270\SV106\240304nlvi\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270

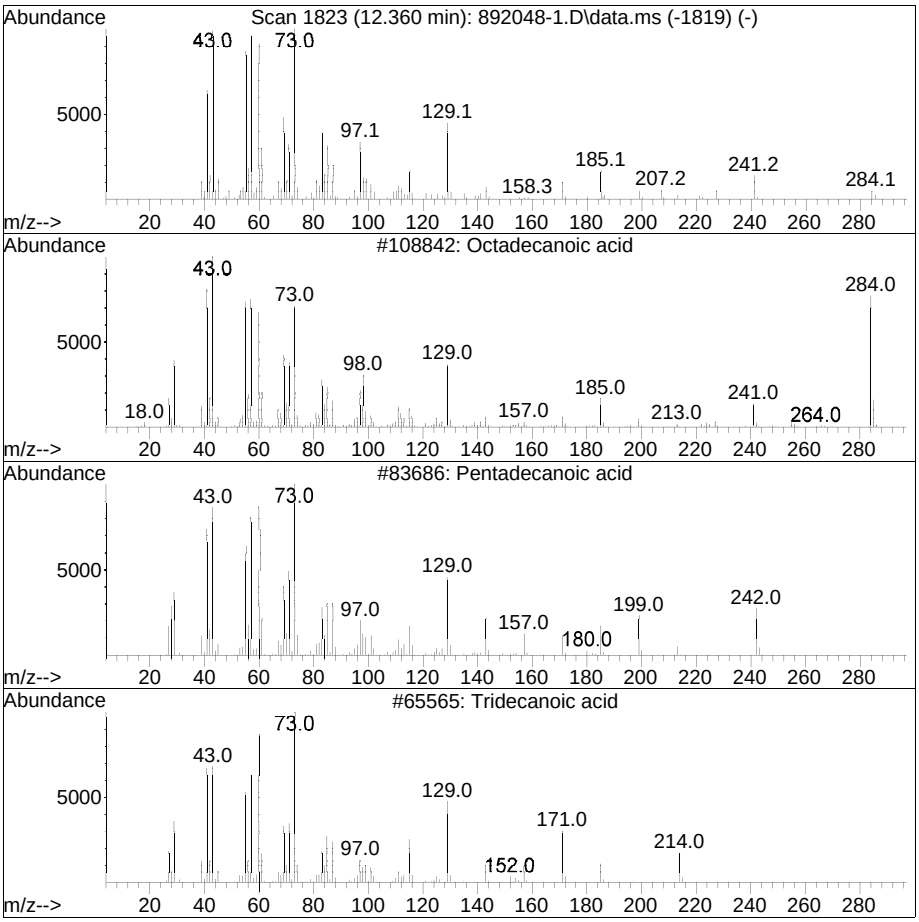
TIC Library : I:\nist-db\NIST02.L
TIC Integration Parameters: LSCINT.P

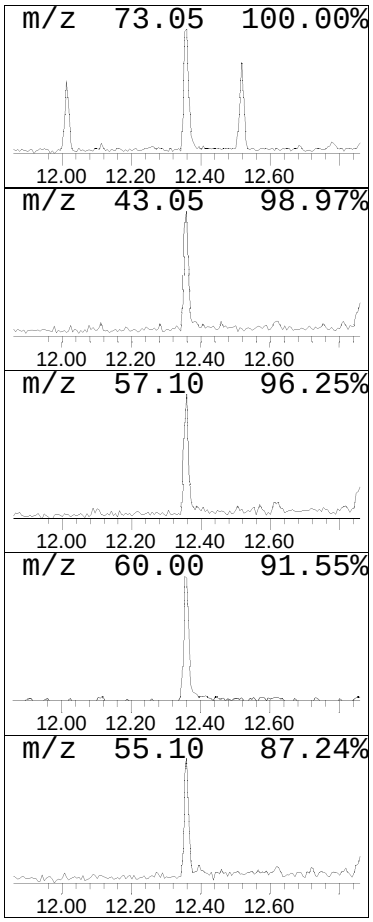
****

Peak Number 5 Unknown Organic Acid Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.360	0.68 ug/ml	107671	IS1_Chrysene-d12	13.583

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octadecanoic acid	284	C18H36O2	000057-11-4	94
2	Pentadecanoic acid	242	C15H30O2	001002-84-2	58
3	Tridecanoic acid	214	C13H26O2	000638-53-9	53
4	Undecanoic acid	186	C11H22O2	000112-37-8	52
5	Dodecanoic acid	200	C12H24O2	000143-07-7	50





Library Search Compound Report

Data Path : I:\8270\SV106\240304nlvi\
Data File : 892048-1.D
Acq On : 5 Mar 2024 6:07 am
Operator : SV106:ljg
Sample : WG1892048-1,32,,gmr
Misc : WG1891342,WG1892048,ical20337
ALS Vial : 13 Sample Multiplier: 1

Quant Method : I:\8270\SV106\240304nlvi\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270

TIC Library : I:\nist-db\NIST02.L
TIC Integration Parameters: LSCINT.P

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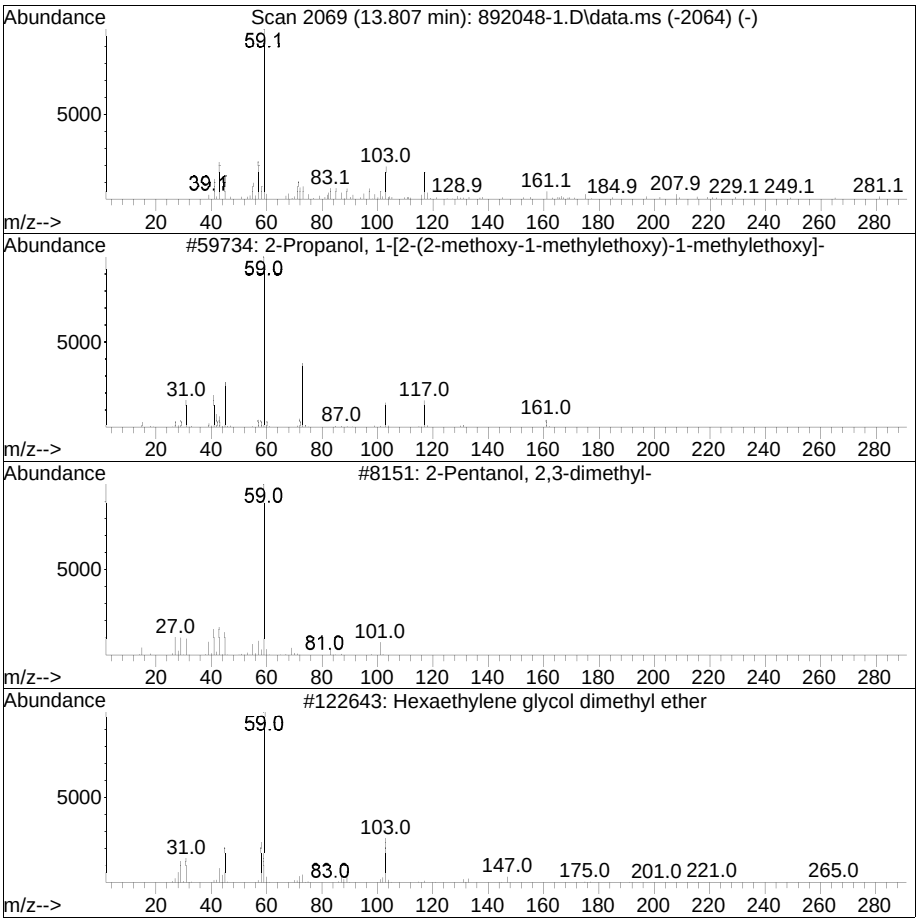
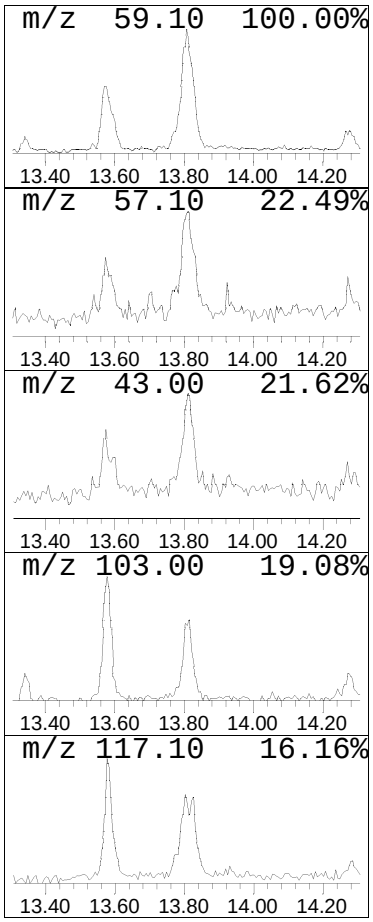
Peak Number 6 Unknown Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.807	0.83 ug/ml	131575	IS1_Chrysene-d12	13.583

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Propanol, 1-[2-(2-methoxy-1-me...	206	C10H22O4	020324-33-8	50
2	2-Pentanol, 2,3-dimethyl-	116	C7H16O	004911-70-0	47
3	Hexaethylene glycol dimethyl ether	310	C14H30O7	001072-40-8	45
4	Butanamide	87	C4H9NO	000541-35-5	43
5	2,5,8,11,14-Pentaoxapentadecane	222	C10H22O5	000143-24-8	40





FS230902SV106.m Tue Mar 05 13:36:23 2024 Page: 9

Library Search Compound Report

Data Path : I:\8270\SV106\240304nlvi\
Data File : 892048-1.D
Acq On : 5 Mar 2024 6:07 am
Operator : SV106:ljg
Sample : WG1892048-1,32,,gmr
Misc : WG1891342,WG1892048,ical20337
ALS Vial : 13 Sample Multiplier: 1

Quant Method : I:\8270\SV106\240304nlvi\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270

TIC Library : I:\nist-db\NIST02.L
TIC Integration Parameters: LSCINT.P

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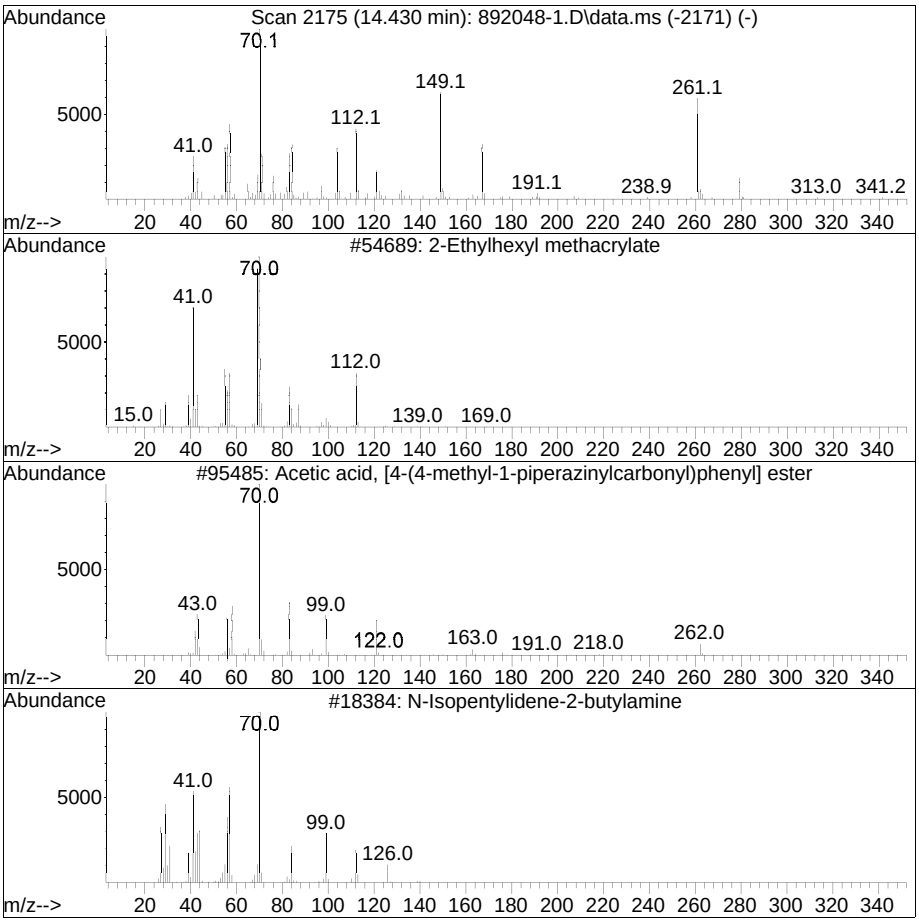
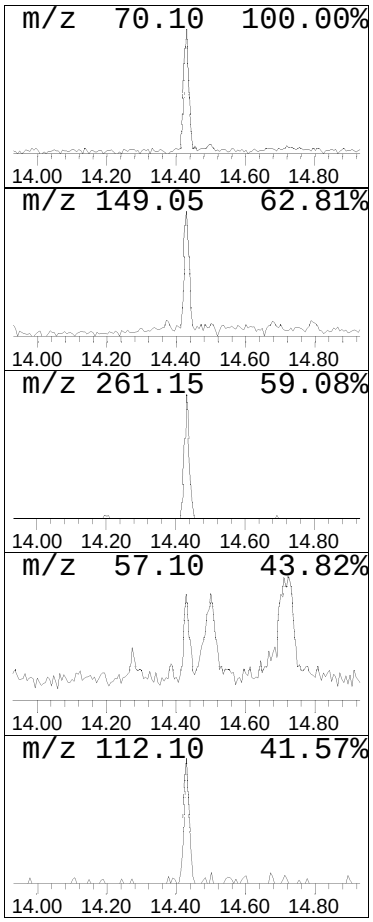
Peak Number 7 Unknown Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.430	0.48 ug/ml	75096	IS1_Perylene-d12	15.042

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Ethylhexyl methacrylate	198	C12H22O2	000688-84-6	25
2	Acetic acid, [4-(4-methyl-1-pipe...	262	C14H18N2O3	346699-90-9	22
3	N-Isopentylidene-2-butylamine	141	C9H19N	1000249-99-9	22
4	5-Chloropentanoic acid, 2-ethylh...	248	C13H25ClO2	1000293-48-9	16
5	Bromoacetic acid, 2-ethylhexyl e...	250	C10H19BrO2	068144-73-0	16





Library Search Compound Report

Data Path : I:\8270\SV106\240304nlvi\
Data File : 892048-1.D
Acq On : 5 Mar 2024 6:07 am
Operator : SV106:ljg
Sample : WG1892048-1,32,,gmr
Misc : WG1891342,WG1892048,ical20337
ALS Vial : 13 Sample Multiplier: 1

Quant Method : I:\8270\SV106\240304nlvi\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270

TIC Library : I:\nist-db\NIST02.L
TIC Integration Parameters: LSCINT.P

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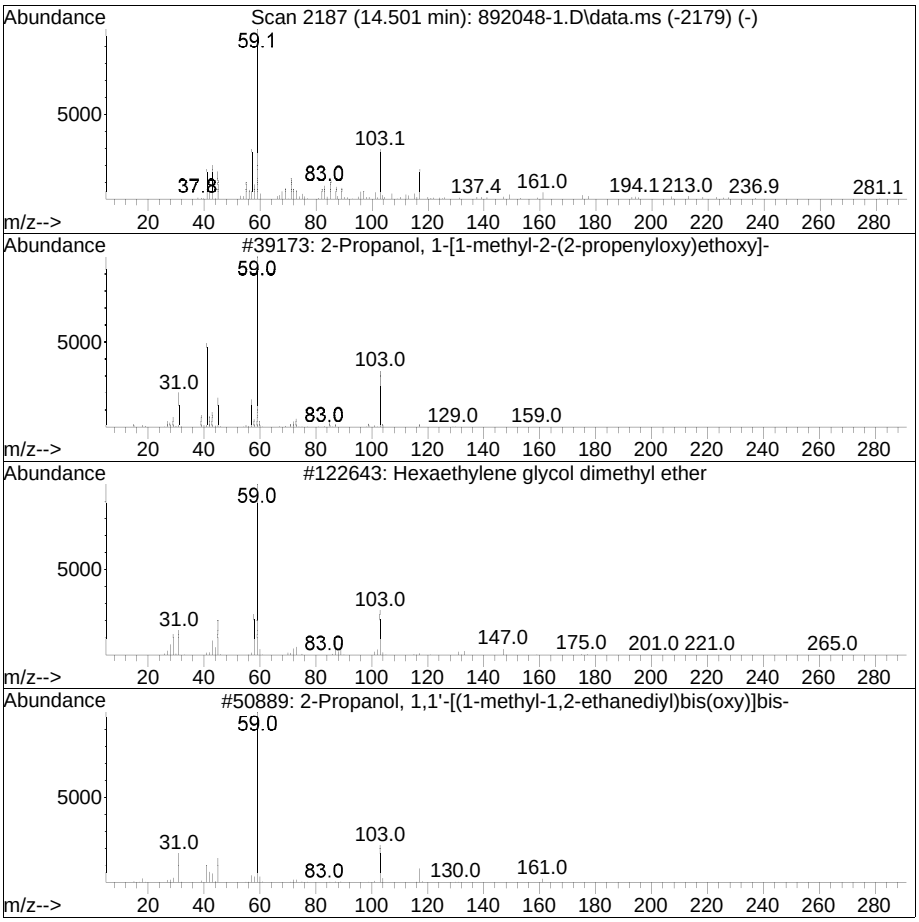
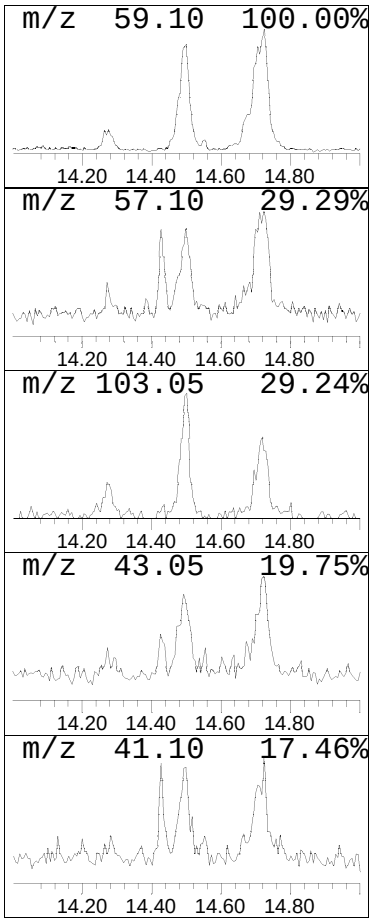
Peak Number 8 Unknown Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.501	0.84 ug/ml	132897	IS1_Perylene-d12	15.042

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Propanol, 1-[1-methyl-2-(2-pro...	174	C9H18O3	055956-25-7	53
2	Hexaethylene glycol dimethyl ether	310	C14H30O7	001072-40-8	53
3	2-Propanol, 1,1'-[(1-methyl-1,2-...	192	C9H20O4	001638-16-0	50
4	t-Butyl ethyl ether	102	C6H14O	1000118-18-4	43
5	Butyl aldoxime, 3-methyl-, syn-	101	C5H11NO	005780-40-5	43





Data Path : I:\8270\SV106\240304nlvi\
Data File : 892048-1.D
Acq On : 5 Mar 2024 6:07 am
Operator : SV106:ljg
Sample : WG1892048-1,32,,gmr
Misc : WG1891342,WG1892048,ical20337
ALS Vial : 13 Sample Multiplier: 1

Quant Method : I:\8270\SV106\240304nlvi\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270

TIC Library : I:\nist-db\NIST02.L
TIC Integration Parameters: LSCINT.P

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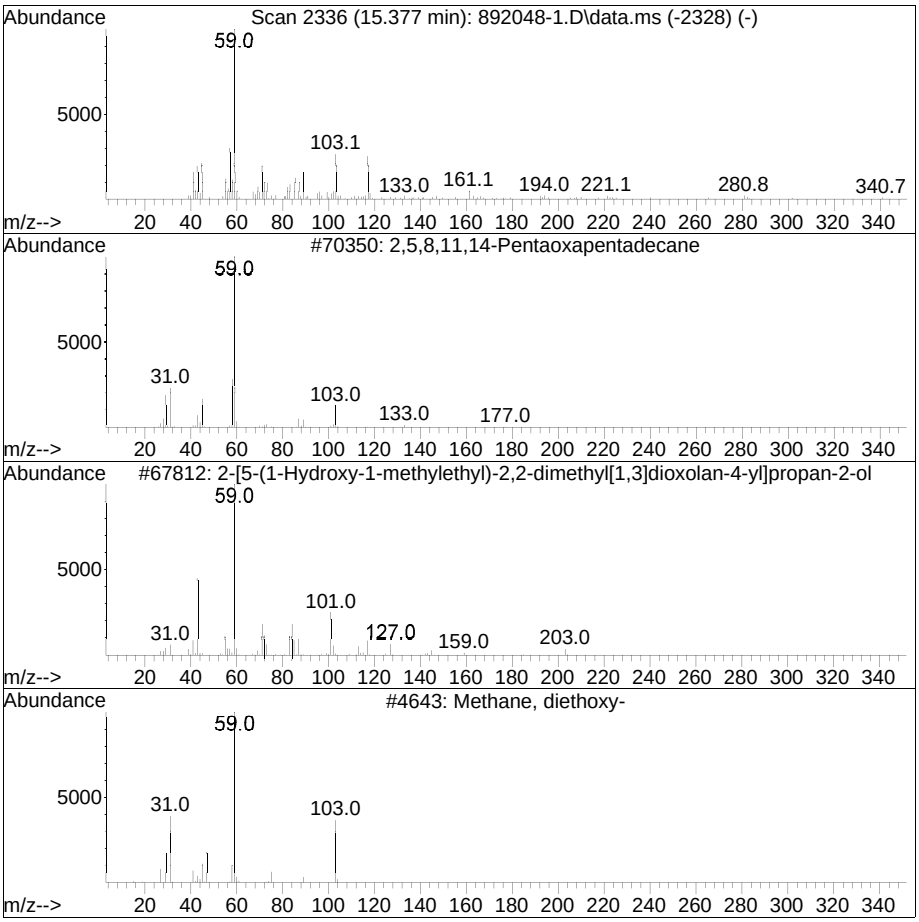
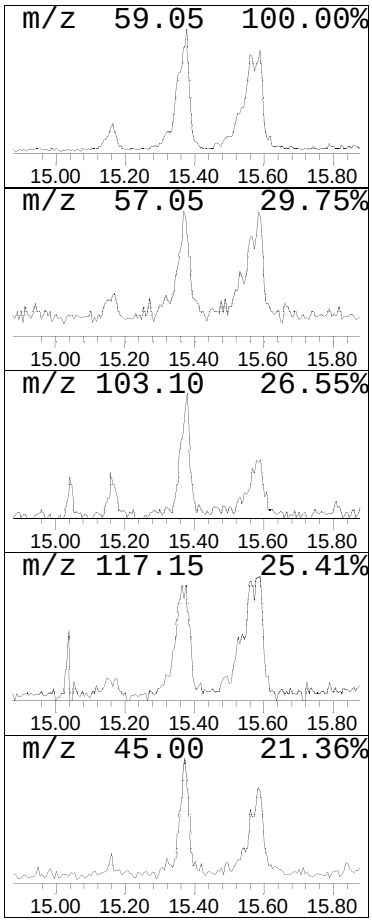
Peak Number 9 Unknown Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.377	1.02 ug/ml	161399	IS1_Perylene-d12	15.042

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2,5,8,11,14-Pentaoxapentadecane	222	C10H22O5	000143-24-8	50
2	2-[5-(1-Hydroxy-1-methylethyl)-2...	218	C11H22O4	1000190-33-6	45
3	Methane, diethoxy-	104	C5H12O2	000462-95-3	43
4	2,5,8,11,14,17-Hexaoxaoctadecane	266	C12H26O6	001191-87-3	38
5	Dipropylene glycol	134	C6H14O3	025265-71-8	38





Data Path : I:\8270\SV106\240304nlvi\
Data File : 892048-1.D
Acq On : 5 Mar 2024 6:07 am
Operator : SV106:ljg
Sample : WG1892048-1,32,,gmr
Misc : WG1891342,WG1892048,ical20337
ALS Vial : 13 Sample Multiplier: 1

Quant Method : I:\8270\SV106\240304nlvi\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270

TIC Library : I:\nist-db\NIST02.L
TIC Integration Parameters: LSCINT.P

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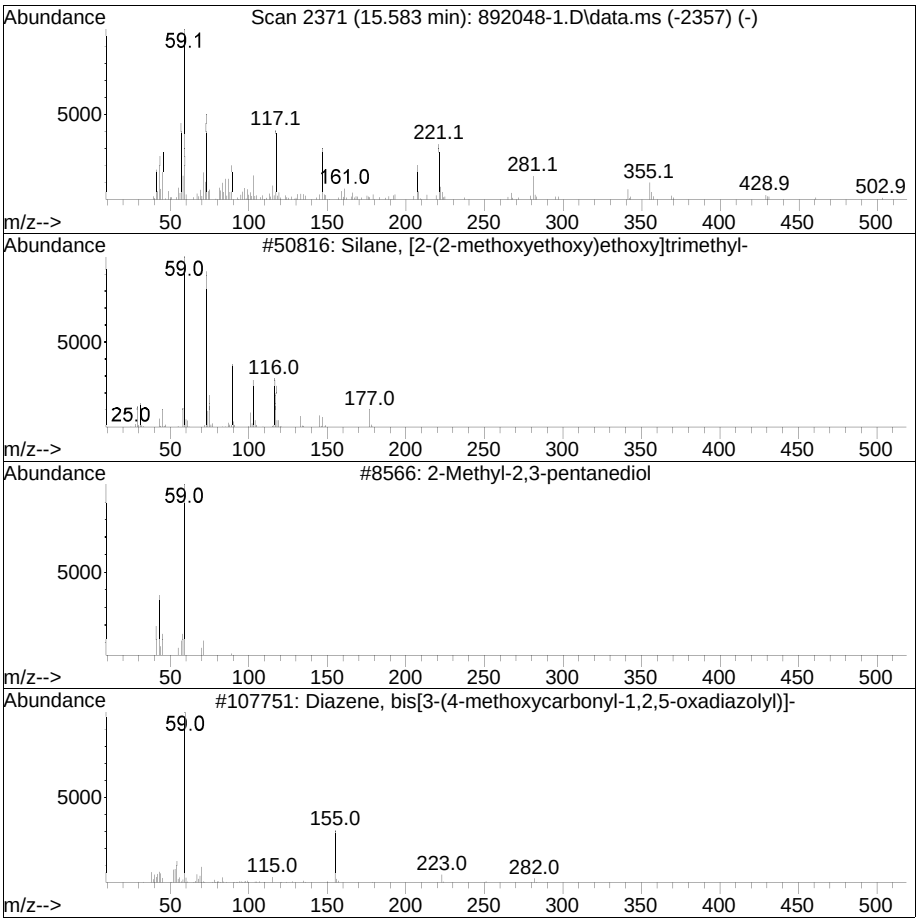
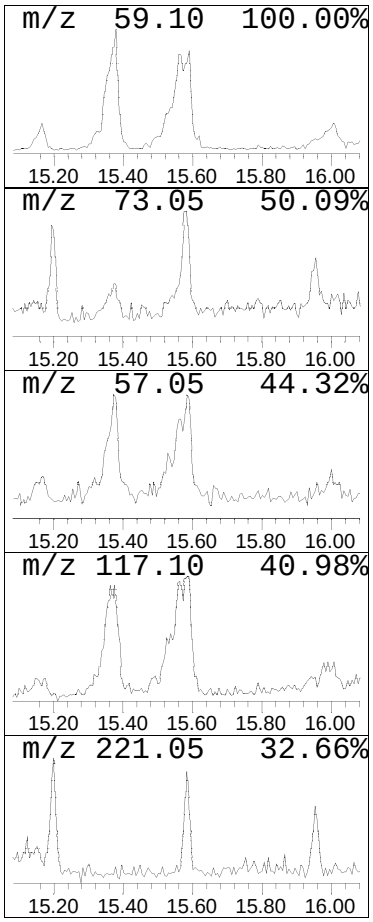
Peak Number 10 Unknown Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.583	1.53 ug/ml	241641	IS1_Perylene-d12	15.042

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Silane, [2-(2-methoxyethoxy)etho...	192	C8H20O3Si	062199-57-9	32
2	2-Methyl-2,3-pentanediol	118	C6H14O2	007795-80-4	27
3	Diazene, bis[3-(4-methoxycarbony...	282	C8H6N6O6	339246-68-3	25
4	Oxetane, 2,2,4-trimethyl-	100	C6H12O	023120-44-7	22
5	4-Methoxy-1-pentene	100	C6H12O	098386-09-5	22





Data Path : I:\8270\SV106\240304nlvi\
Data File : 892048-1.D
Acq On : 5 Mar 2024 6:07 am
Operator : SV106:ljg
Sample : WG1892048-1,32,,gmr
Misc : WG1891342,WG1892048,ical20337
ALS Vial : 13 Sample Multiplier: 1

Quant Method : I:\8270\SV106\240304nlvi\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270

TIC Library : I:\nist-db\NIST02.L
TIC Integration Parameters: LSCINT.P

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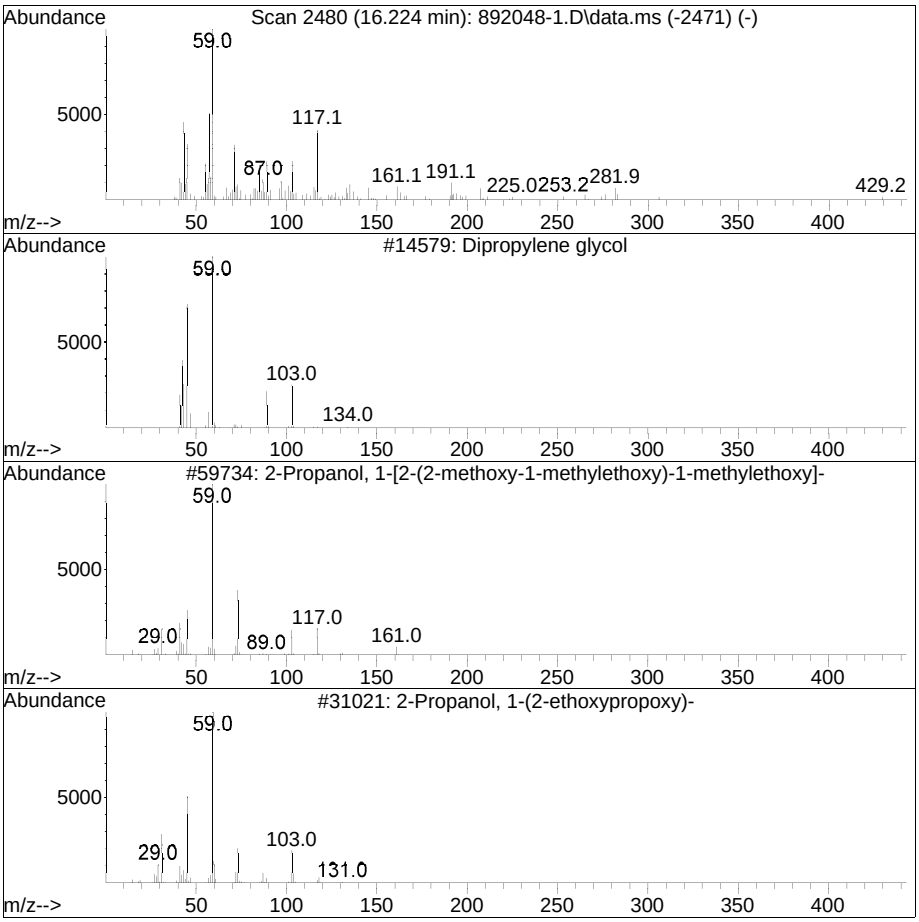
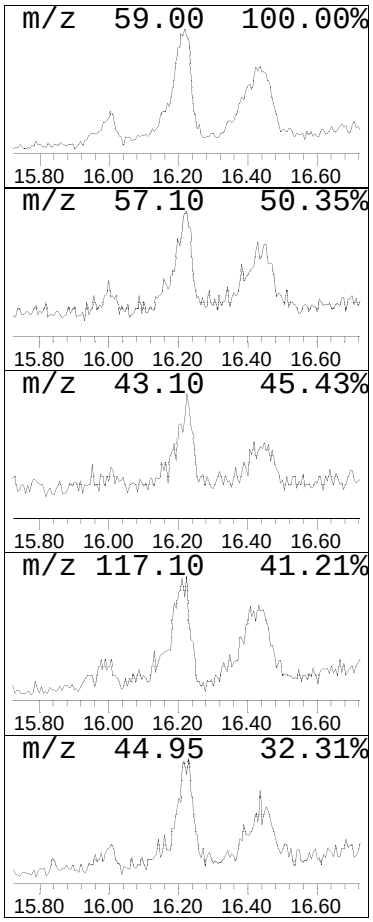
Peak Number 11 Unknown Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.224	0.97 ug/ml	152750	IS1_Perylene-d12	15.042

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dipropylene glycol	134	C6H14O3	025265-71-8	43
2	2-Propanol, 1-[2-(2-methoxy-1-me...	206	C10H22O4	020324-33-8	40
3	2-Propanol, 1-(2-ethoxypropoxy)-	162	C8H18O3	010143-32-5	38
4	Diethylene glycol tert-butyl eth...	176	C9H20O3	052788-79-1	37
5	Butanoic acid, 3,3-dimethyl-	116	C6H12O2	001070-83-3	22





Tentatively Identified Compound (LSC) summary

Data Path : I:\8270\SV106\240304nlvi\
Data File : 892048-1.D
Acq On : 5 Mar 2024 6:07 am
Operator : SV106:ljg
Sample : WG1892048-1,32,,gmr
Misc : WG1891342,WG1892048,ical20337
ALS Vial : 13 Sample Multiplier: 1

Quant Method : I:\8270\SV106\240304nlvi\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270

TIC Library : I:\nist-db\NIST02.L
TIC Integration Parameters: LSCINT.P

					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
Unknown	2.731	2.9	ug/ml	233531	1	6.325	317621	4.0
Unknown Alkane	3.390	0.8	ug/ml	62193	1	6.325	317621	4.0
Unknown Organic...	11.589	0.7	ug/ml	107148	11	10.960	573753	4.0
Unknown Organic...	12.360	0.7	ug/ml	107671	12	13.583	636841	4.0
Unknown	13.807	0.8	ug/ml	131575	12	13.583	636841	4.0
Unknown	14.430	0.5	ug/ml	75096	13	15.042	631718	4.0
Unknown	14.501	0.8	ug/ml	132897	13	15.042	631718	4.0
Unknown	15.377	1.0	ug/ml	161399	13	15.042	631718	4.0
Unknown	15.583	1.5	ug/ml	241641	13	15.042	631718	4.0
Unknown	16.224	1.0	ug/ml	152750	13	15.042	631718	4.0

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240302lvi\
Data File : 891419-2.D
Acq On : 2 Mar 2024 4:31 pm
Operator : Dakota:sz
Sample : WG1891419-2,32,,cmm
Misc : wg1891492,WG1891419,ical20900
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 04 08:29:32 2024
Quant Method : I:\8270\dakota\240302lvi\FS240228LVIDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Mar 02 16:50:22 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\240302lvi\ABN0302.D
: 2 - I:\8270\Dakota\240302lvi\APDP0302.D
Sub List : 8270TCL_REV2 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	4.776	152	25388	4.000	ug/ml	0.00
Standard Area 1 = 24014			Recovery = 105.72%			
27) IS2_1,4-Dichlorobenzen...	4.776	152	25388	4.000	ug/ml	0.00
Standard Area 2 = 20026			Recovery = 126.78%			
33) IS1_Naphthalene-d8	6.010	136	88311	4.000	ug/ml	# 0.00
Standard Area 1 = 81733			Recovery = 108.05%			
53) IS2_Naphthalene-d8	6.010	136	88311	4.000	ug/ml	# 0.00
Standard Area 2 = 70682			Recovery = 124.94%			
61) IS1_Acenaphthene-d10	7.713	164	60175	4.000	ug/ml	0.00
Standard Area 1 = 56426			Recovery = 106.64%			
81) IS2_Acenaphthene-d10	7.713	164	60175	4.000	ug/ml	0.00
Standard Area 2 = 48337			Recovery = 124.49%			
85) IS1_Phenanthrene-d10	9.143	188	137244	4.000	ug/ml	0.00
Standard Area 1 = 126344			Recovery = 108.63%			
100) IS1_Chrysene-d12	11.773	240	143014	4.000	ug/ml	0.00
Standard Area 1 = 137232			Recovery = 104.21%			
109) IS1_Perylene-d12	13.240	264	169126	4.000	ug/ml	0.00
Standard Area 1 = 160070			Recovery = 105.66%			
System Monitoring Compounds						
4) 2-Fluorophenol	3.514	112	17117	2.519	ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 50.38%			
7) Phenol-d6	4.456	99	20291	2.311	ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 46.22%			
19) Nitrobenzene-d5	5.317	82	10691	1.351	ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 54.04%			
44) 2-Fluorobiphenyl	7.076	172	29871	1.509	ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 60.36%			
77) 2,4,6-Tribromophenol	8.475	330	11863	3.001	ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 60.02%			
93) 4-Terphenyl-d14	10.716	244	53440	1.491	ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 59.64%			
Target Compounds						Qvalue
6) 2-Chlorophenol	4.574	128	21866	2.942	ug/ml	93
8) Phenol	4.468	94	23112	2.383	ug/ml#	66
9) Bis(2-chloroethyl)ether	4.540	93	19142	2.787	ug/ml	99

Data Path : I:\8270\Dakota\240302lvi\
Data File : 891419-2.D
Acq On : 2 Mar 2024 4:31 pm
Operator : Dakota:sz
Sample : WG1891419-2,32,,cmm
Misc : wg1891492,WG1891419,ical20900
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 04 08:29:32 2024
Quant Method : I:\8270\dakota\240302lvi\FS240228LVIDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Mar 02 16:50:22 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\240302lvi\ABN0302.D
: 2 - I:\8270\Dakota\240302lvi\APDP0302.D
Sub List : 8270TCL_REV2 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
14) Bis(2-chloroisopropyl)...	5.071	45	37398	2.677 ug/ml#	71
15) 2-Methylphenol	5.056	108	18855	2.853 ug/ml	96
17) n-Nitrosodi-n-propylamine	5.193	70	15300	2.802 ug/ml#	88
18) 3-Methylphenol/4-Methy...	5.208	108	21104	2.923 ug/ml	99
20) Nitrobenzene	5.336	77	21029	2.701 ug/ml	96
21) Isophorone	5.575	82	38131	2.751 ug/ml	94
22) 2-Nitrophenol	5.650	139	10685	2.933 ug/ml	94
23) 2,4-Dimethylphenol	5.721	107	17649	3.104 ug/ml	96
24) Bis(2-chloroethoxy)met...	5.808	93	24849	2.789 ug/ml#	94
25) 2,4-Dichlorophenol	5.886	162	22154	3.031 ug/ml#	91
28) Benzaldehyde	4.347	105	16453	5.374 ug/ml	89
29) Acetophenone	5.177	105	31707	2.949 ug/ml#	81
36) 4-Chloroaniline	6.100	65	7317	2.563 ug/ml	77
38) p-Chloro-m-cresol	6.591	107	19507	3.128 ug/ml#	91
41) Hexachlorocyclopentadiene	6.877	237	14561	2.814 ug/ml	96
42) 2,4,6-Trichlorophenol	6.992	196	19858	3.246 ug/ml	98
43) 2,4,5-Trichlorophenol	7.023	196	22115	3.304 ug/ml	98
46) 2-Nitroaniline	7.281	138	13717	3.141 ug/ml	87
49) Dimethyl phthalate	7.480	163	62216	3.278 ug/ml#	98
51) 2,6-Dinitrotoluene	7.524	165	12073	3.251 ug/ml#	77
58) Caprolactam	6.402	55	5352	1.473 ug/ml#	88
59) 1,2,4,5-Tetrachloroben...	6.877	216	30791	3.124 ug/ml#	96
60) Biphenyl	7.166	154	62289	3.167 ug/ml	99
62) 3-Nitroaniline	7.679	138	12803	2.985 ug/ml#	90
64) 2,4-Dinitrophenol	7.779	184	5214	2.695 ug/ml#	82
65) Dibenzofuran	7.912	168	79708	3.002 ug/ml	89
66) 2,4-Dinitrotoluene	7.912	165	15989	2.891 ug/ml	95
67) 4-Nitrophenol	7.866	65	9903	2.797 ug/ml	93
69) 2,3,4,6-Tetrachlorophenol	8.043	232	19287	3.231 ug/ml	97
70) Diethyl phthalate	8.167	149	62064	3.080 ug/ml	99
72) 4-Chlorophenyl phenyl ...	8.257	204	33716	3.141 ug/ml#	82
73) 4-Nitroaniline	8.267	138	12560	2.955 ug/ml	88
74) 4,6-Dinitro-o-cresol	8.301	198	9232	3.087 ug/ml#	60
75) NDPA/DPA	8.372	169	54071	3.215 ug/ml	95
78) 4-Bromophenyl phenyl e...	8.727	248	21996	3.212 ug/ml#	78
84) Atrazine	8.907	200	17907	3.103 ug/ml	94
88) Carbazole	9.379	167	99520	2.995 ug/ml	100
89) Di-n-butylphthalate	9.762	149	107428	2.914 ug/ml#	98

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240302lvi\
Data File : 891419-2.D
Acq On : 2 Mar 2024 4:31 pm
Operator : Dakota:sz
Sample : WG1891419-2,32,,cmm
Misc : wg1891492,WG1891419,ical20900
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 04 08:29:32 2024
Quant Method : I:\8270\dakota\240302lvi\FS240228LVIDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Mar 02 16:50:22 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\240302lvi\ABN0302.D
: 2 - I:\8270\Dakota\240302lvi\APDP0302.D
Sub List : 8270TCL_REV2 - TCL/CT/MA

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
94)	Butyl benzyl phthalate	11.238	149	46935	2.891	ug/ml	87
102)	3,3'-Dichlorobenzidine	11.763	252	49497	2.693	ug/ml#	96
104)	Bis(2-ethylhexyl)phtha...	11.875	149	73055	2.816	ug/ml#	95
105)	Di-n-octylphthalate	12.550	149	120308	2.907	ug/ml#	74

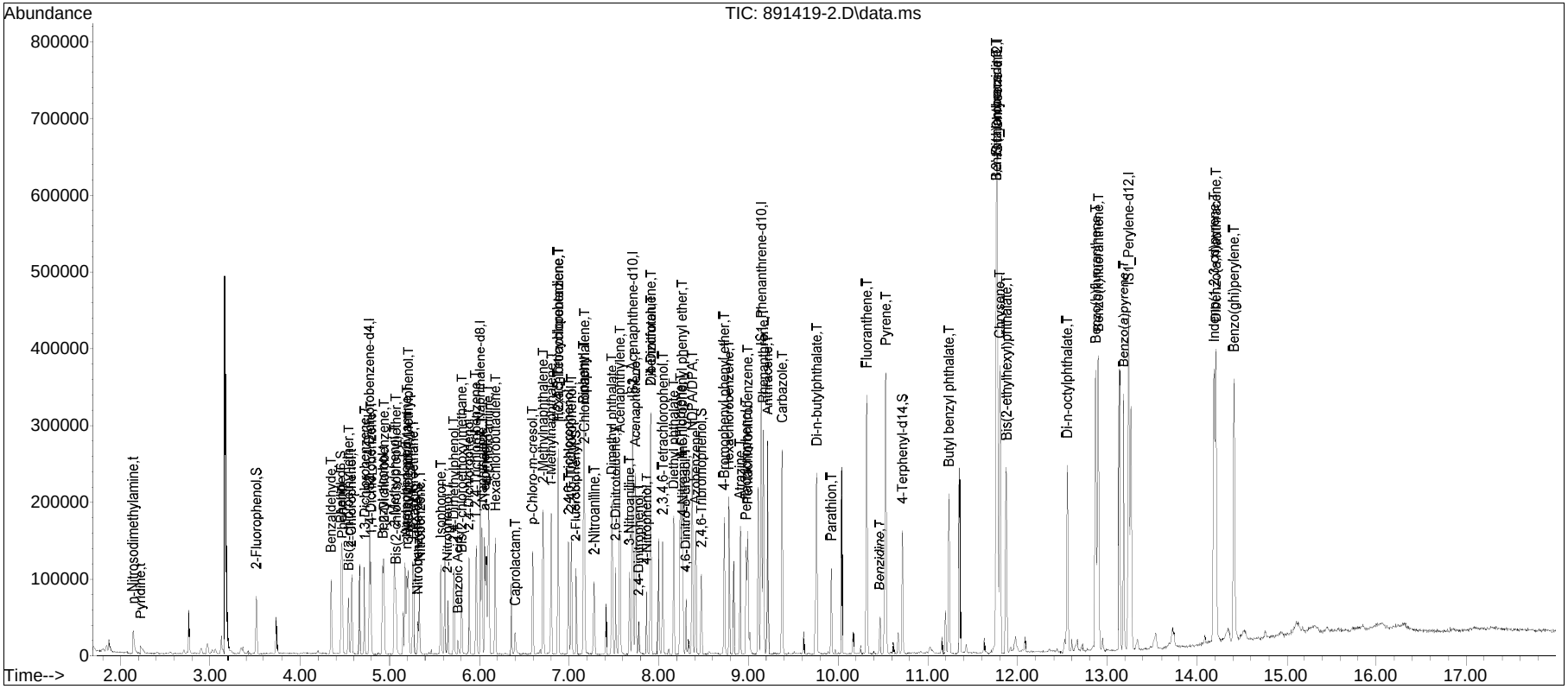
(#) = qualifier out of range (m) = manual integration (+) = signals summed

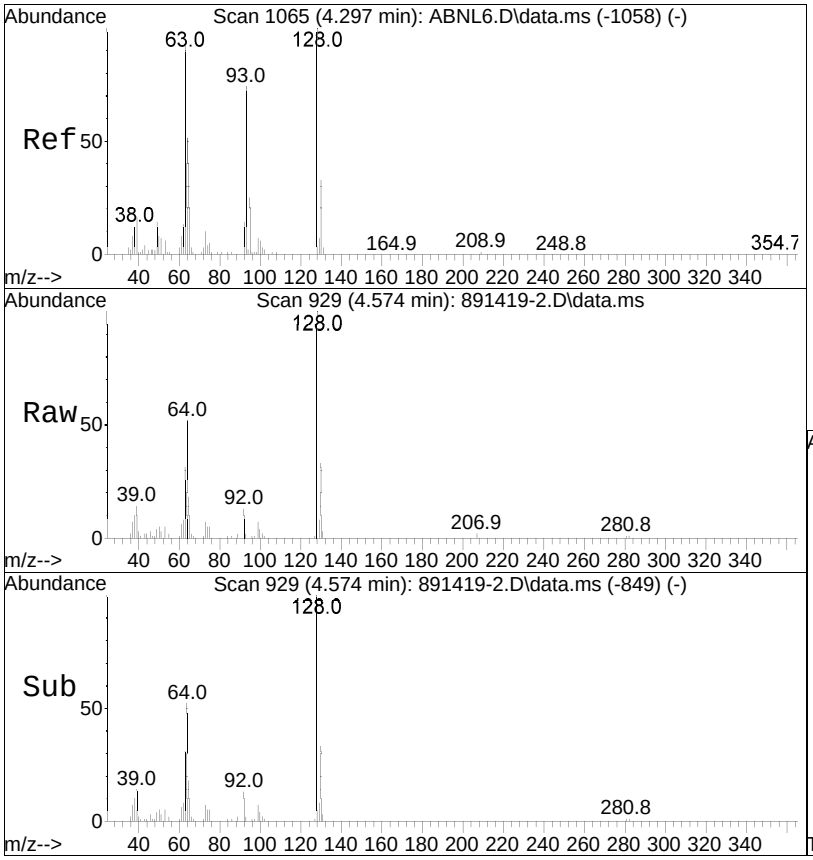
Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240302lvi\
Data File : 891419-2.D
Acq On : 2 Mar 2024 4:31 pm
Operator : Dakota:sz
Sample : WG1891419-2,32,,cmm
Misc : wg1891492,WG1891419,ical20900
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 04 08:29:32 2024
Quant Method : I:\8270\dakota\240302lvi\FS240228LVIDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Mar 02 16:50:22 2024
Response via : Initial Calibration

Sub List : 8270TCL_REV2 - TCL/CT/MA2lvi\APDP0302.D•

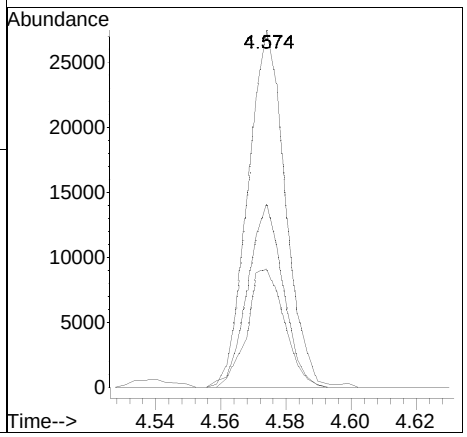


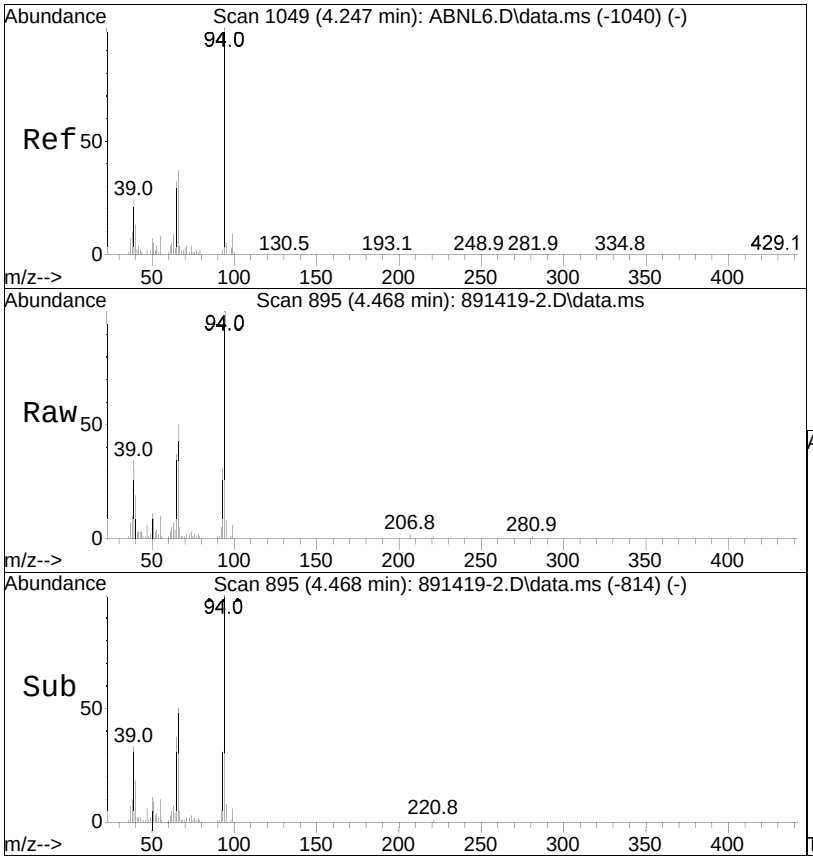


#6
2-Chlorophenol
Concen: 2.94 ug/ml
RT: 4.574 min Scan# 929
Delta R.T. -0.000 min
Lab File: 891419-2.D
Acq: 2 Mar 2024 4:31 pm

Tgt Ion:128 Resp: 21866

Ion	Ratio	Lower	Upper
128	100		
64	48.7	45.1	67.7
130	33.1	26.2	39.4

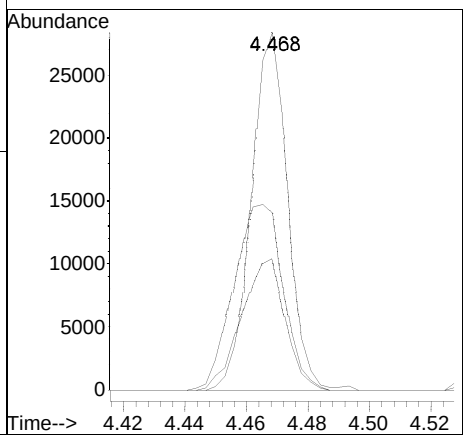


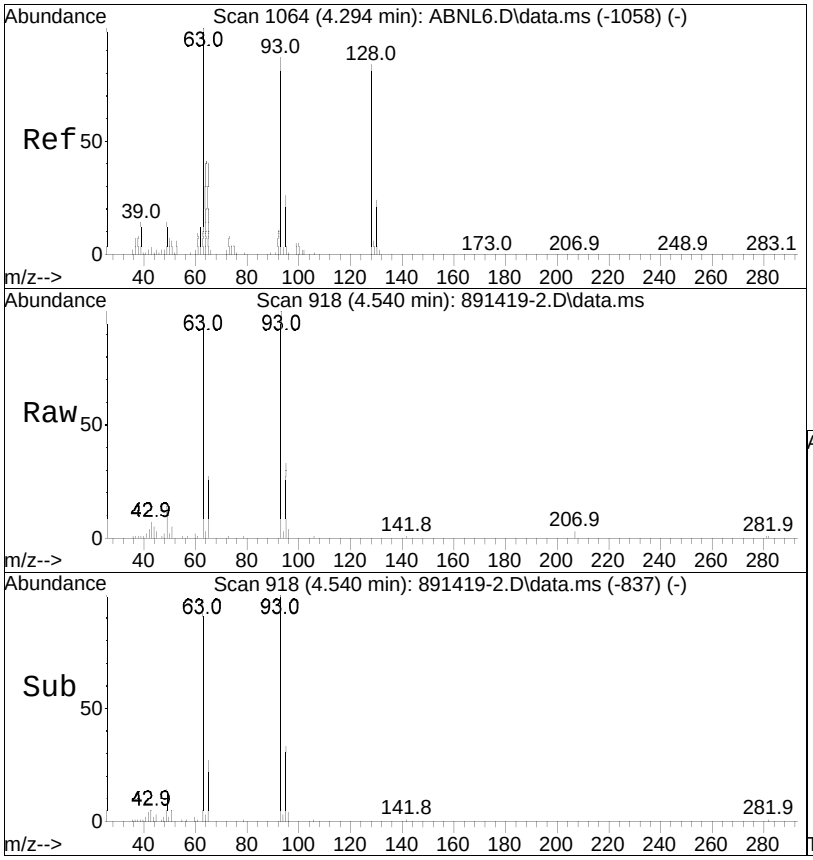


#8
Phenol
Concen: 2.38 ug/ml
RT: 4.468 min Scan# 895
Delta R.T. 0.003 min
Lab File: 891419-2.D
Acq: 2 Mar 2024 4:31 pm

Tgt Ion: 94 Resp: 23112

Ion	Ratio	Lower	Upper
94	100		
65	44.1	26.0	39.0#
66	70.3	33.8	50.8#

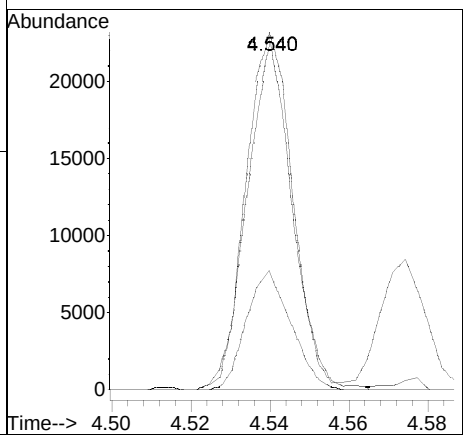


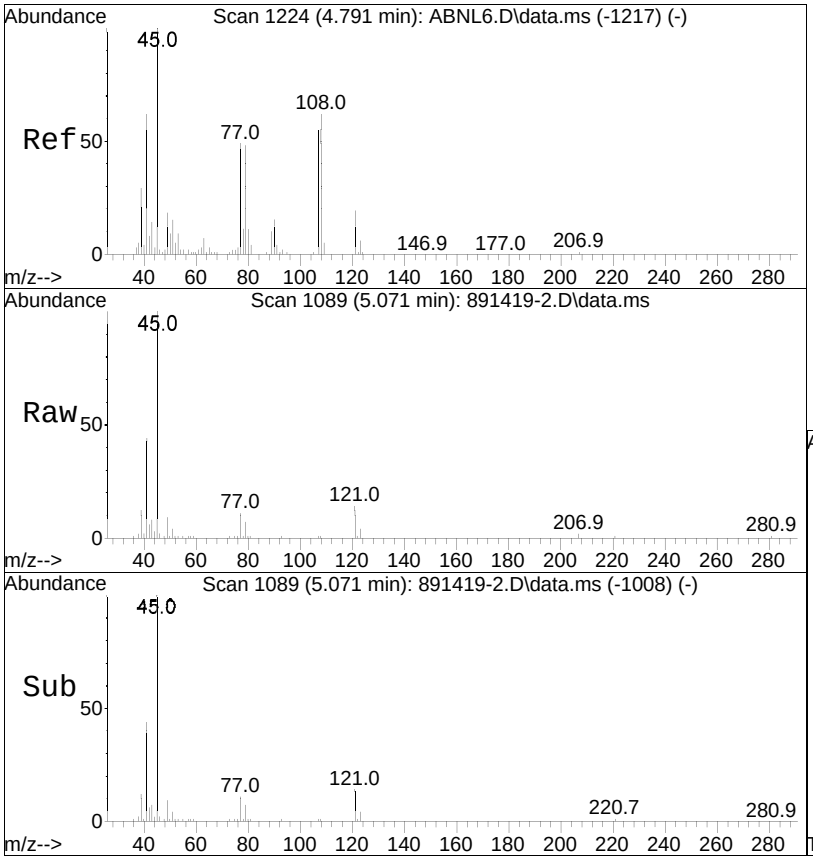


#9
Bis(2-chloroethyl)ether
Concen: 2.79 ug/ml
RT: 4.540 min Scan# 918
Delta R.T. -0.000 min
Lab File: 891419-2.D
Acq: 2 Mar 2024 4:31 pm

Tgt Ion: 93 Resp: 19142

Ion	Ratio	Lower	Upper
93	100		
63	91.7	74.6	111.8
95	31.6	25.9	38.9

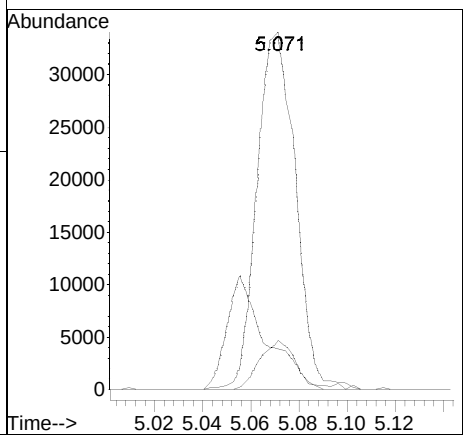


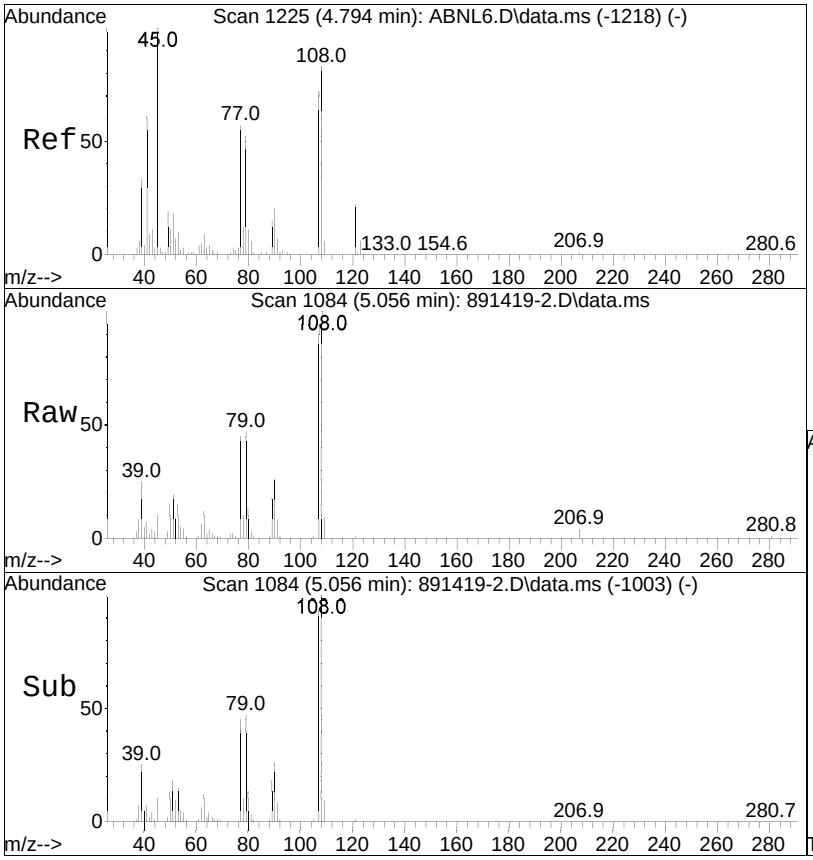


#14
Bis(2-chloroisopropyl)ether
Concen: 2.68 ug/ml
RT: 5.071 min Scan# 1089
Delta R.T. 0.003 min
Lab File: 891419-2.D
Acq: 2 Mar 2024 4:31 pm

Tgt Ion: 45 Resp: 37398

Ion	Ratio	Lower	Upper
45	100		
121	12.7	9.8	14.6
77	33.1	6.1	9.1#

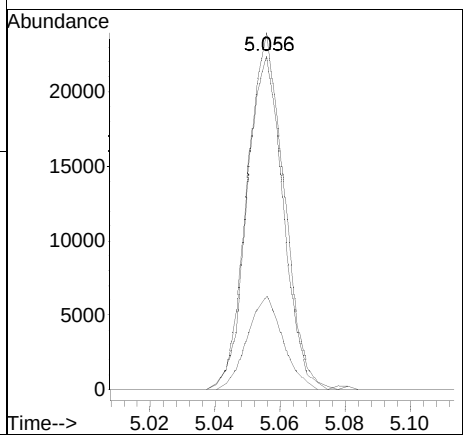


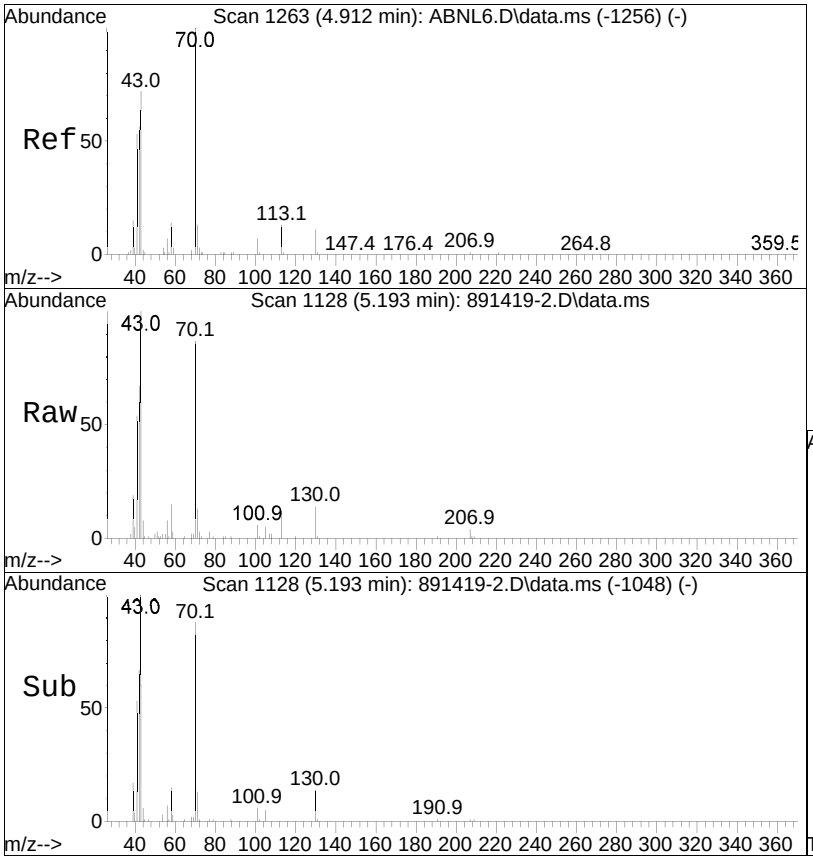


#15
2-Methylphenol
Concen: 2.85 ug/ml
RT: 5.056 min Scan# 1084
Delta R.T. 0.003 min
Lab File: 891419-2.D
Acq: 2 Mar 2024 4:31 pm

Tgt Ion:108 Resp: 18855

Ion	Ratio	Lower	Upper
108	100		
107	92.1	70.7	106.1
90	25.2	18.7	28.1

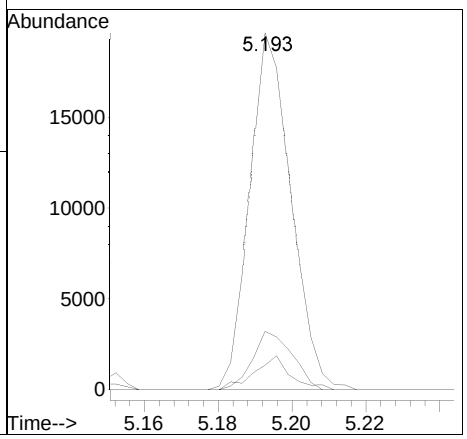


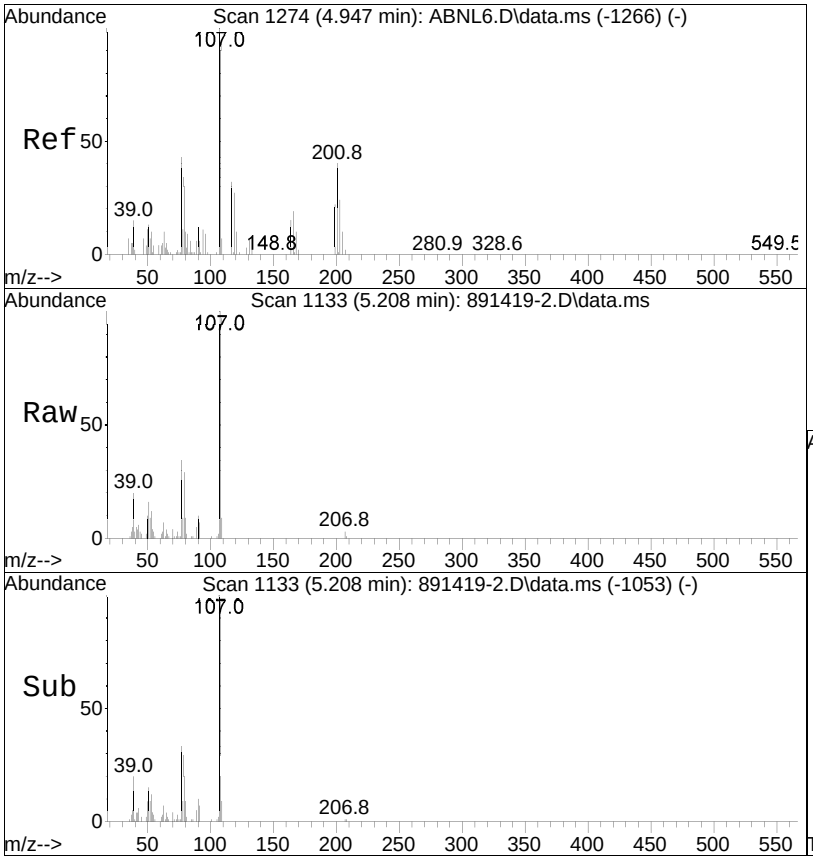


#17
n-Nitrosodi-n-propylamine
Concen: 2.80 ug/ml
RT: 5.193 min Scan# 1128
Delta R.T. -0.000 min
Lab File: 891419-2.D
Acq: 2 Mar 2024 4:31 pm

Tgt Ion: 70 Resp: 15300

Ion	Ratio	Lower	Upper
70	100		
130	15.6	18.2	27.4#
101	8.2	7.8	11.8

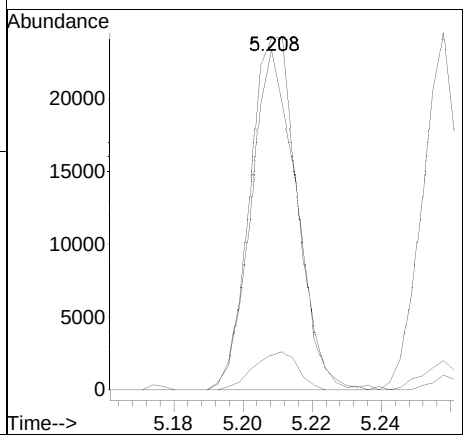


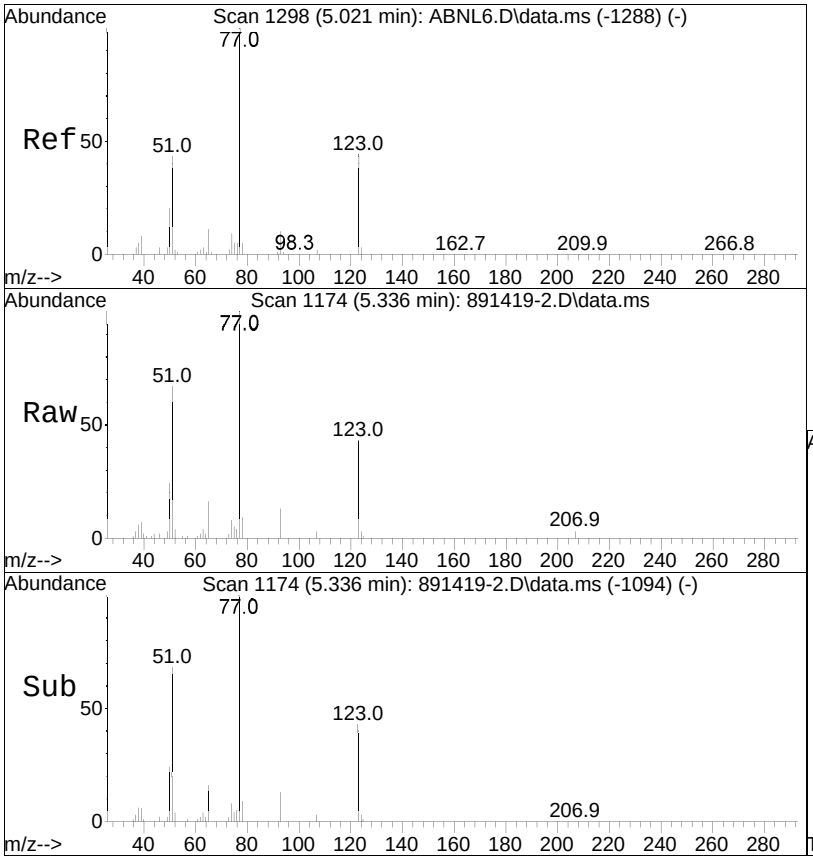


#18
3-Methylphenol/4-Methylphenol
Concen: 2.92 ug/ml
RT: 5.208 min Scan# 1133
Delta R.T. -0.000 min
Lab File: 891419-2.D
Acq: 2 Mar 2024 4:31 pm

Tgt Ion:108 Resp: 21104

Ion	Ratio	Lower	Upper
108	100		
107	109.6	88.6	132.8
90	11.0	8.8	13.2

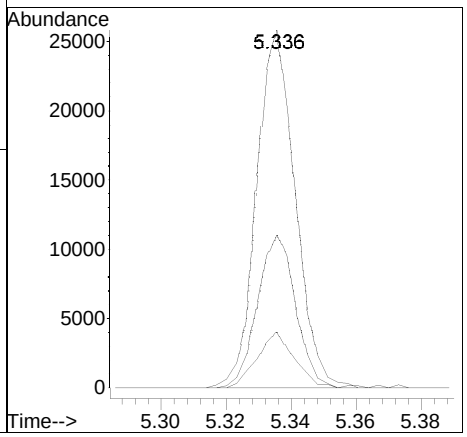


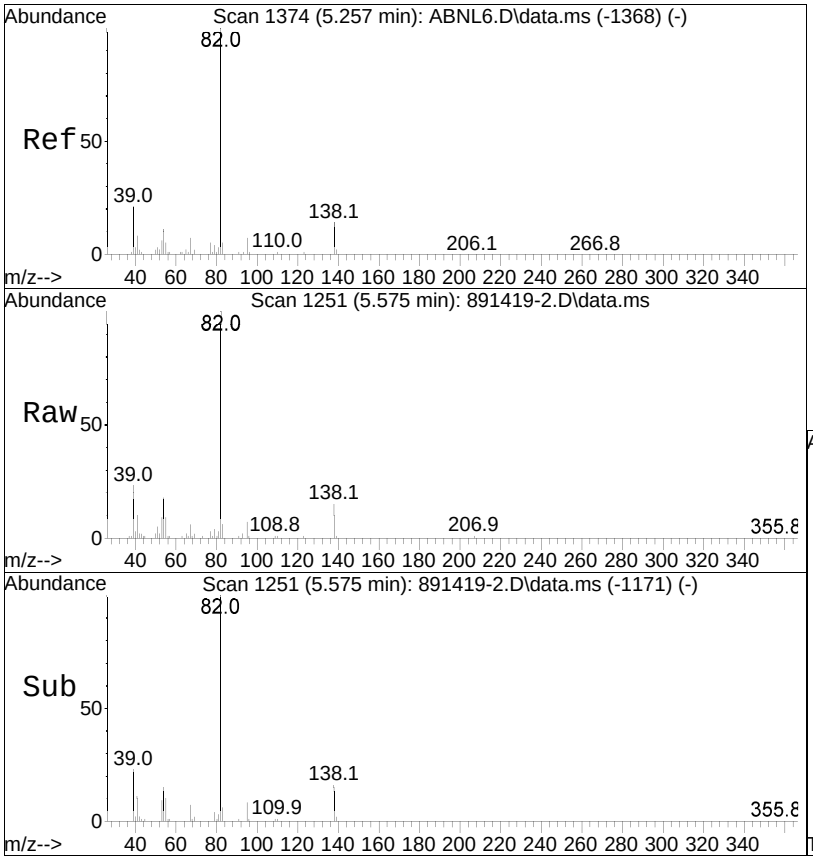


#20
Nitrobenzene
Concen: 2.70 ug/ml
RT: 5.336 min Scan# 1174
Delta R.T. -0.000 min
Lab File: 891419-2.D
Acq: 2 Mar 2024 4:31 pm

Tgt Ion: 77 Resp: 21029

Ion	Ratio	Lower	Upper
77	100		
123	42.3	36.3	54.5
65	15.2	11.6	17.4

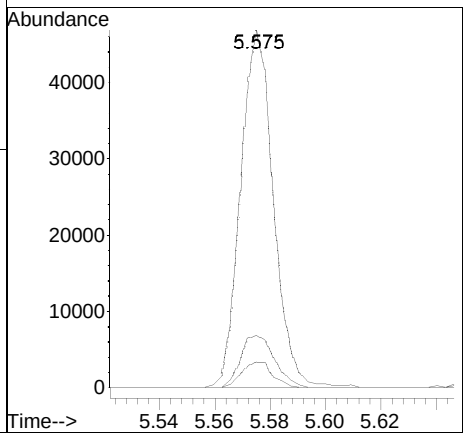


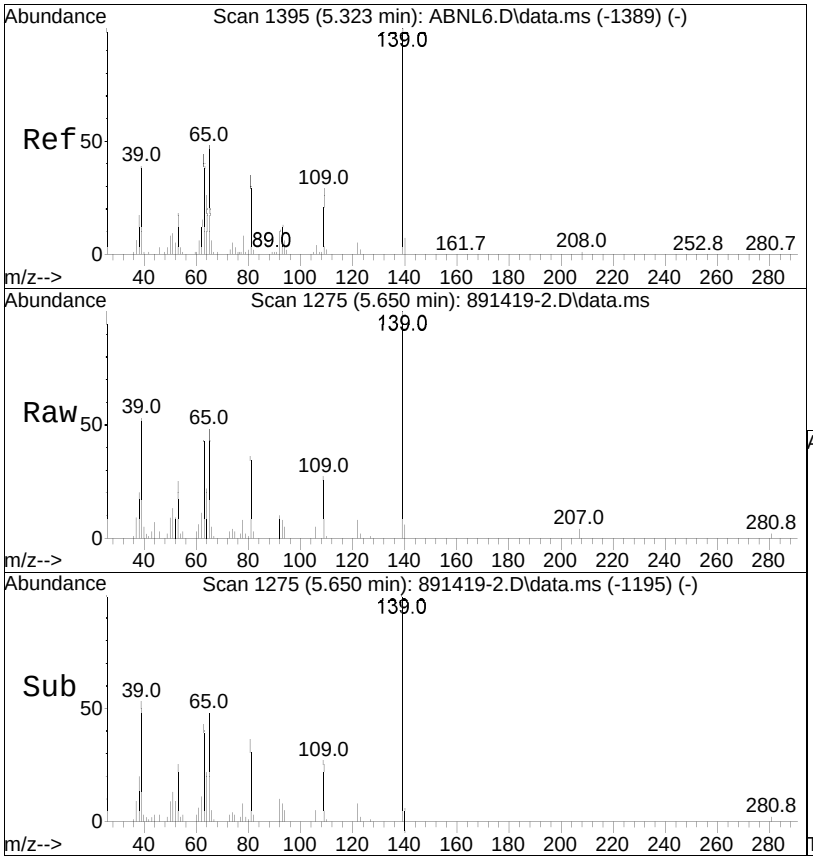


#21
Isophorone
Concen: 2.75 ug/ml
RT: 5.575 min Scan# 1251
Delta R.T. -0.000 min
Lab File: 891419-2.D
Acq: 2 Mar 2024 4:31 pm

Tgt Ion: 82 Resp: 38131

Ion	Ratio	Lower	Upper
82	100		
138	15.1	14.7	22.1
95	6.8	5.2	7.8

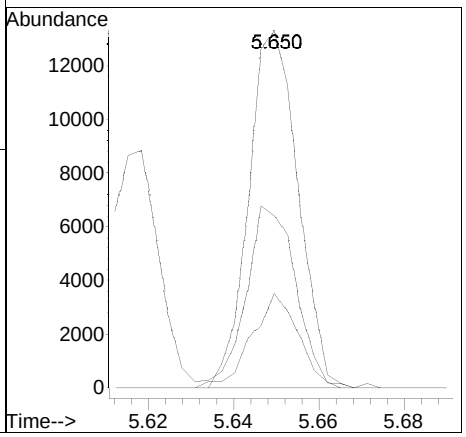


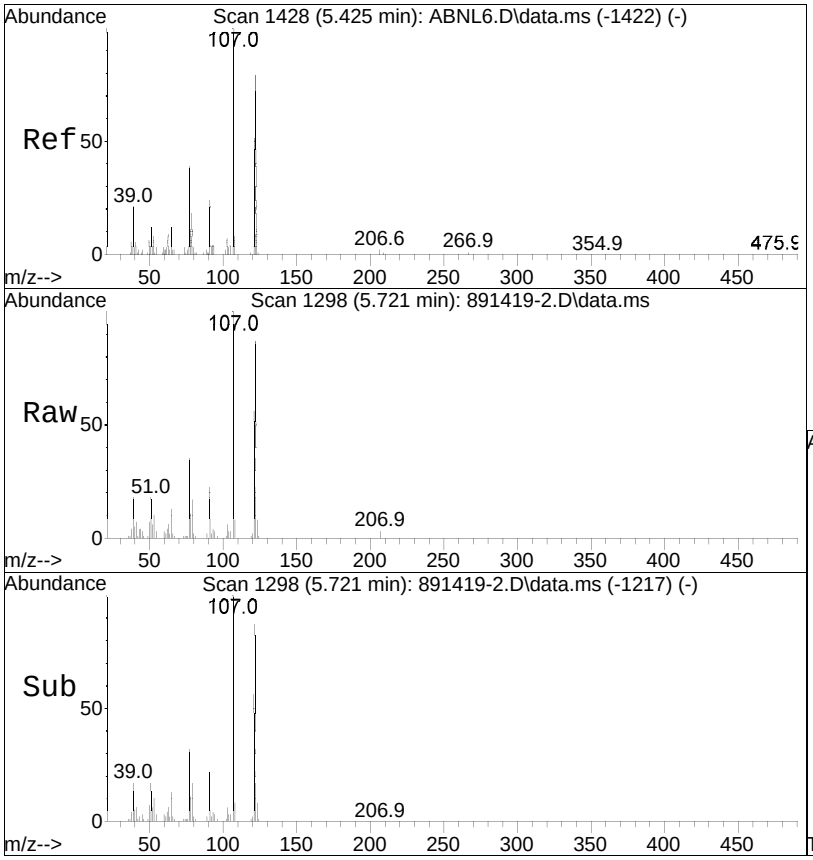


#22
2-Nitrophenol
Concen: 2.93 ug/ml
RT: 5.650 min Scan# 1275
Delta R.T. -0.000 min
Lab File: 891419-2.D
Acq: 2 Mar 2024 4:31 pm

Tgt Ion:139 Resp: 10685

Ion	Ratio	Lower	Upper
139	100		
109	24.9	19.4	29.0
65	51.5	46.1	69.1

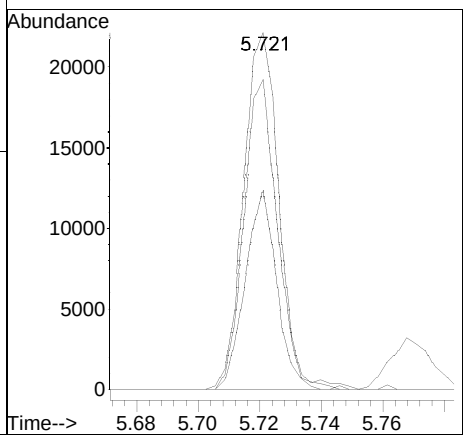


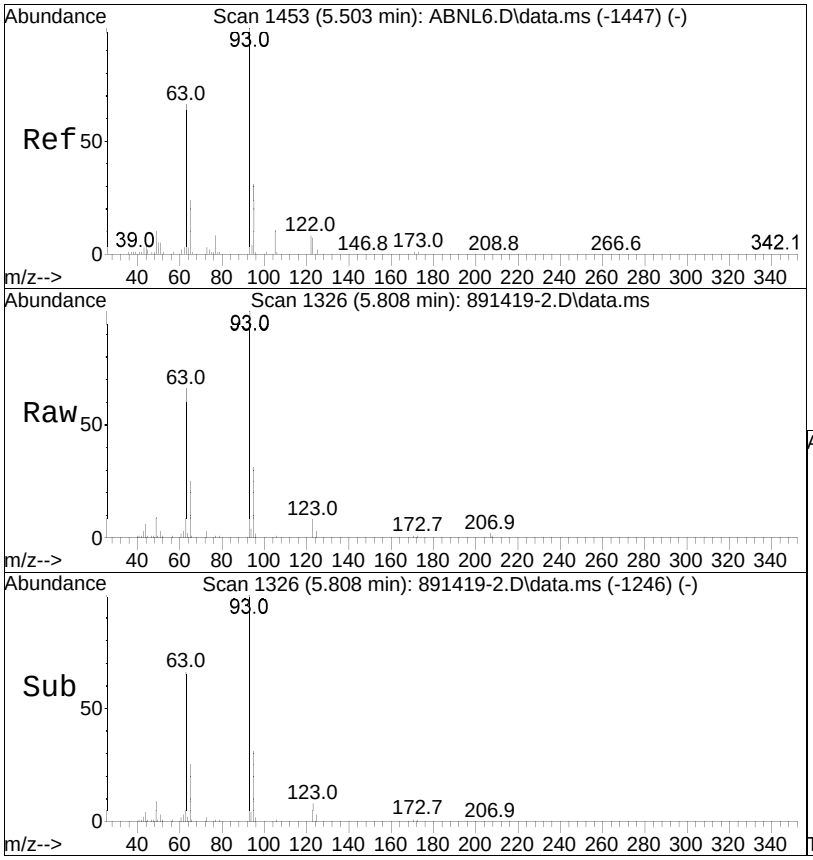


#23
2,4-Dimethylphenol
Concen: 3.10 ug/ml
RT: 5.721 min Scan# 1298
Delta R.T. 0.003 min
Lab File: 891419-2.D
Acq: 2 Mar 2024 4:31 pm

Tgt Ion:107 Resp: 17649

Ion	Ratio	Lower	Upper
107	100		
121	49.7	40.0	60.0
122	81.9	70.2	105.4

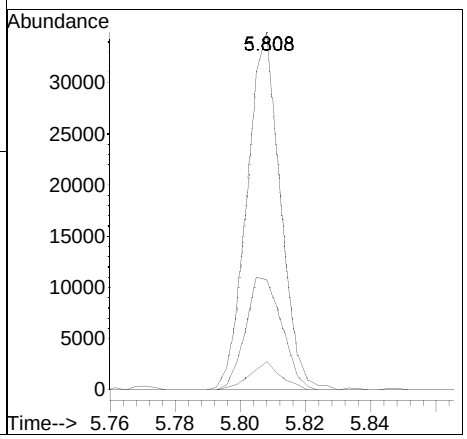


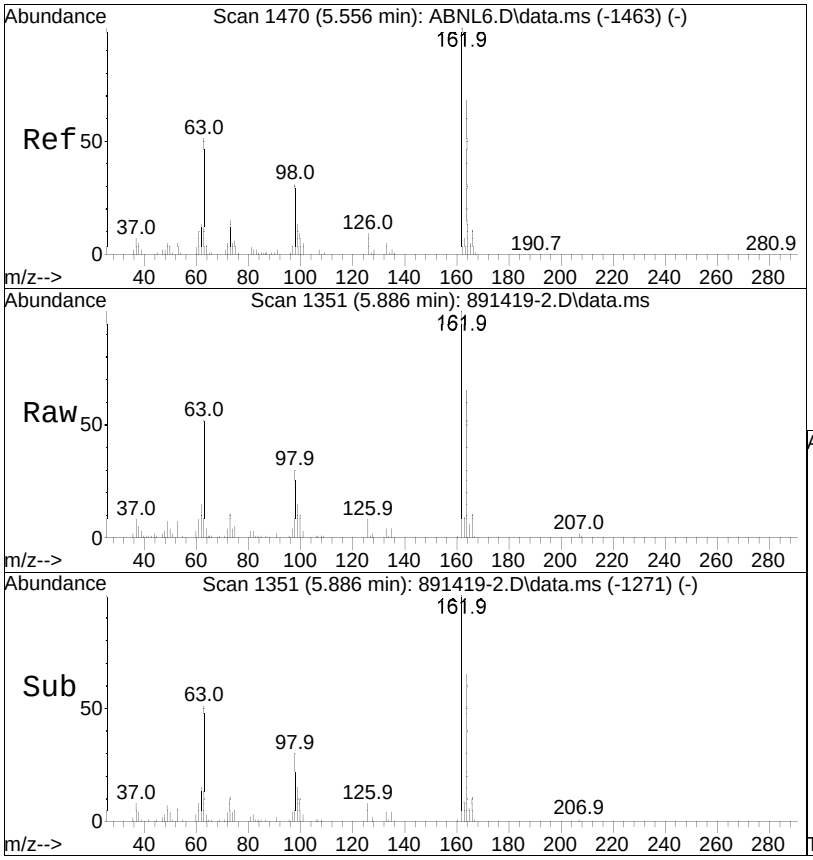


#24
Bis(2-chloroethoxy)methane
Concen: 2.79 ug/ml
RT: 5.808 min Scan# 1326
Delta R.T. -0.000 min
Lab File: 891419-2.D
Acq: 2 Mar 2024 4:31 pm

Tgt Ion: 93 Resp: 24849

Ion	Ratio	Lower	Upper
93	100		
95	34.2	25.8	38.8
123	7.3	10.1	15.1#

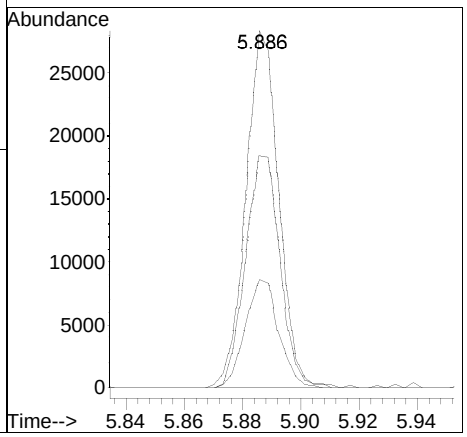


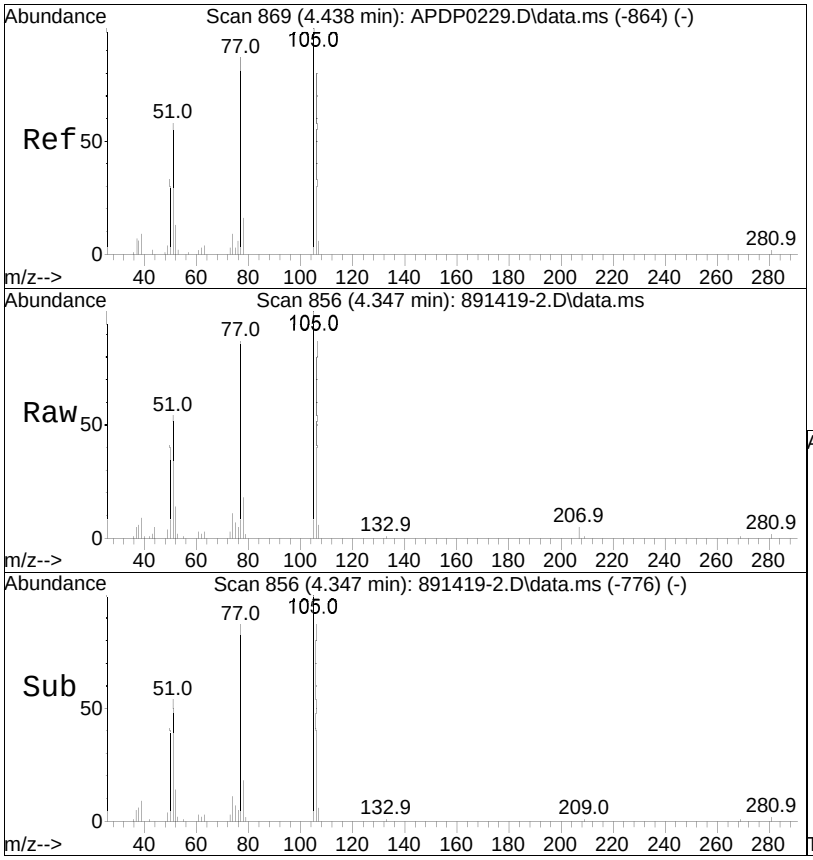


#25
2,4-Dichlorophenol
Concen: 3.03 ug/ml
RT: 5.886 min Scan# 1351
Delta R.T. -0.000 min
Lab File: 891419-2.D
Acq: 2 Mar 2024 4:31 pm

Tgt Ion:162 Resp: 22154

Ion	Ratio	Lower	Upper
162	100		
164	68.3	51.0	76.4
98	31.0	32.2	48.2#

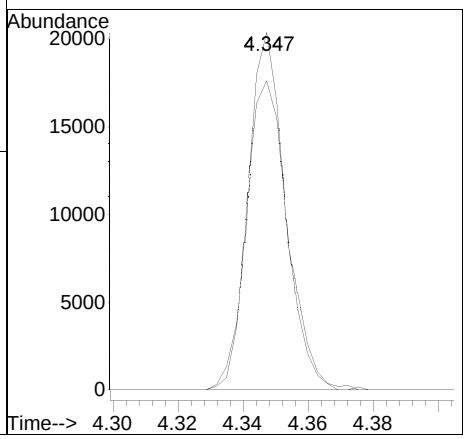


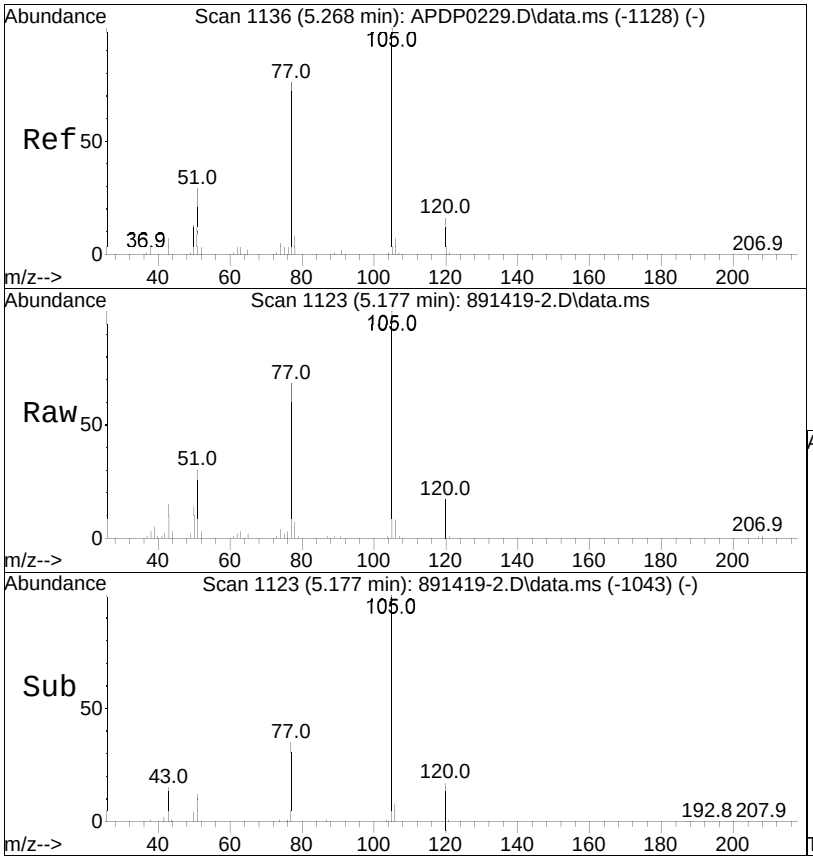


#28
Benzaldehyde
Concen: 5.37 ug/ml
RT: 4.347 min Scan# 856
Delta R.T. -0.000 min
Lab File: 891419-2.D
Acq: 2 Mar 2024 4:31 pm

Tgt Ion:105 Resp: 16453

Ion	Ratio	Lower	Upper
105	100		
77	91.6	82.2	123.4

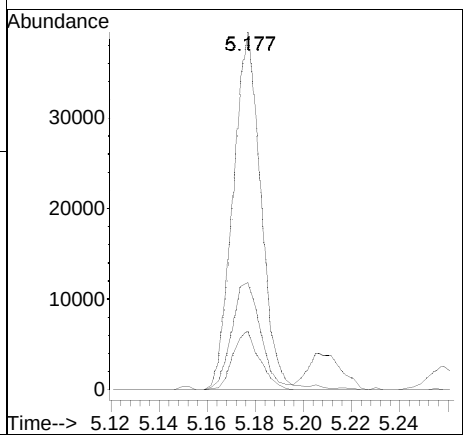


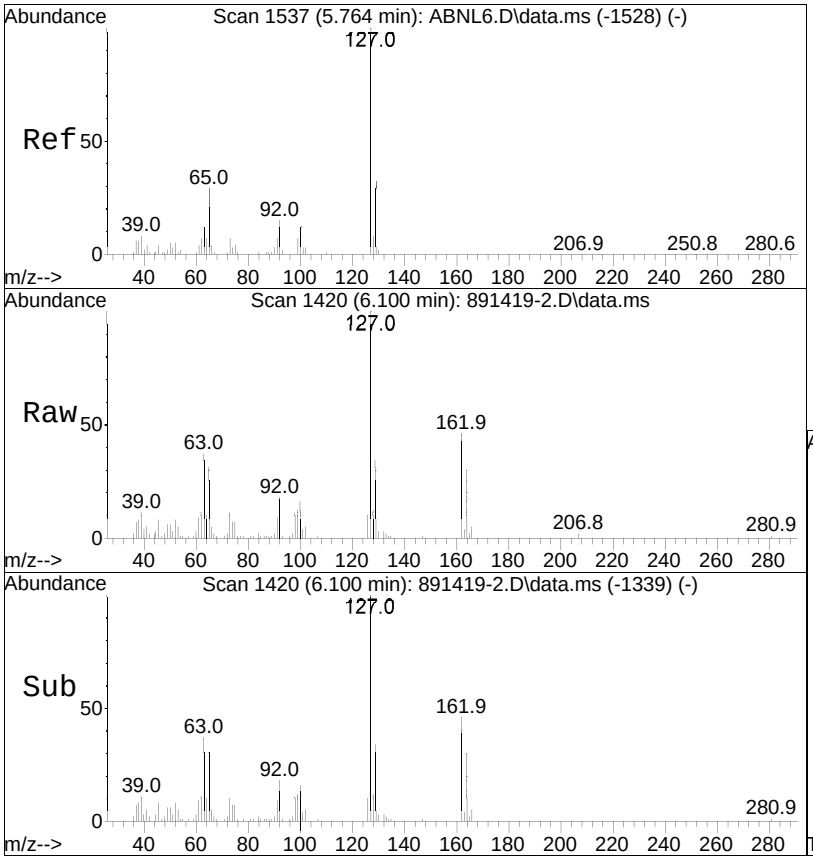


#29
Acetophenone
Concen: 2.95 ug/ml
RT: 5.177 min Scan# 1123
Delta R.T. -0.000 min
Lab File: 891419-2.D
Acq: 2 Mar 2024 4:31 pm

Tgt Ion:105 Resp: 31707

Ion	Ratio	Lower	Upper
105	100		
120	15.8	20.5	30.7#
51	31.4	34.9	52.3#

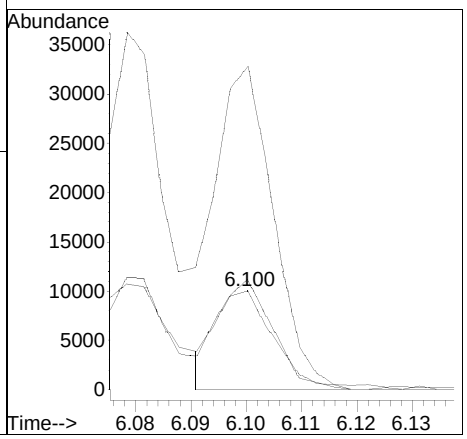


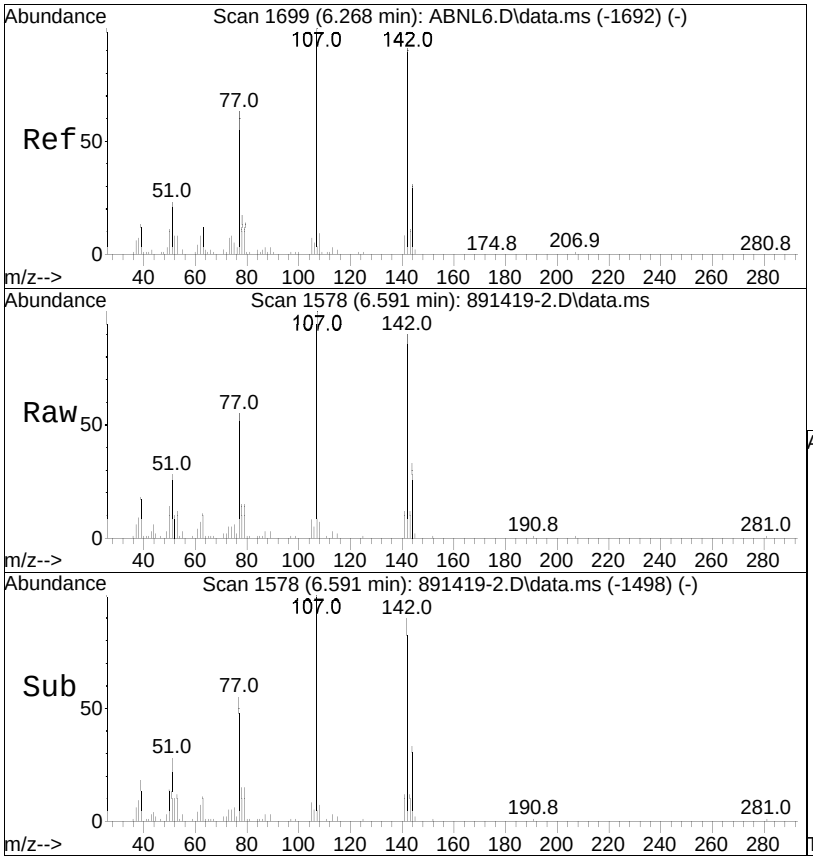


#36
4-Chloroaniline
Concen: 2.56 ug/ml
RT: 6.100 min Scan# 1420
Delta R.T. 0.003 min
Lab File: 891419-2.D
Acq: 2 Mar 2024 4:31 pm

Tgt Ion: 65 Resp: 7317

Ion	Ratio	Lower	Upper
65	100		
127	350.4	237.6	356.4
129	106.3	76.3	114.5

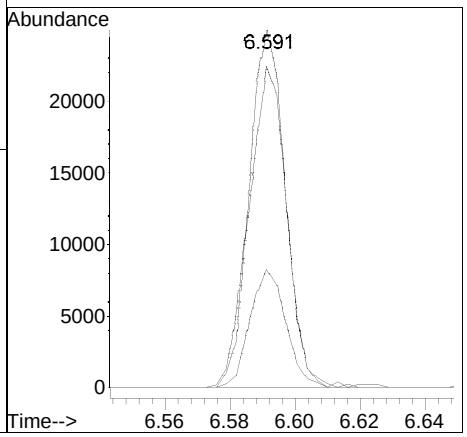


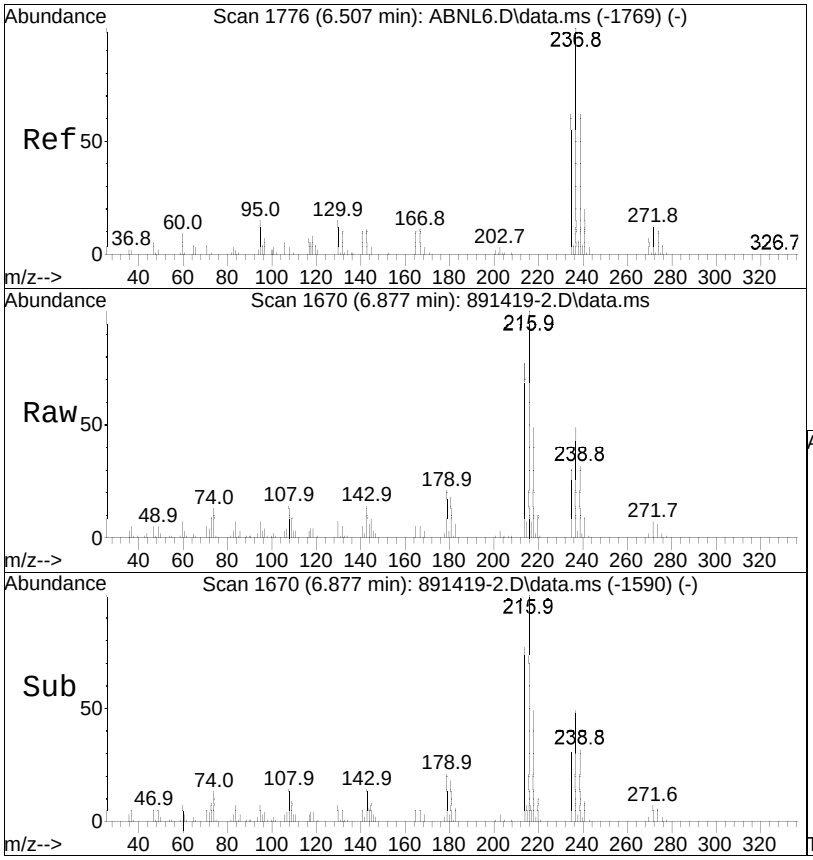


#38
p-Chloro-m-cresol
Concen: 3.13 ug/ml
RT: 6.591 min Scan# 1578
Delta R.T. -0.000 min
Lab File: 891419-2.D
Acq: 2 Mar 2024 4:31 pm

Tgt Ion:107 Resp: 19507

Ion	Ratio	Lower	Upper
107	100		
144	32.2	20.9	31.3#
142	89.9	66.1	99.1

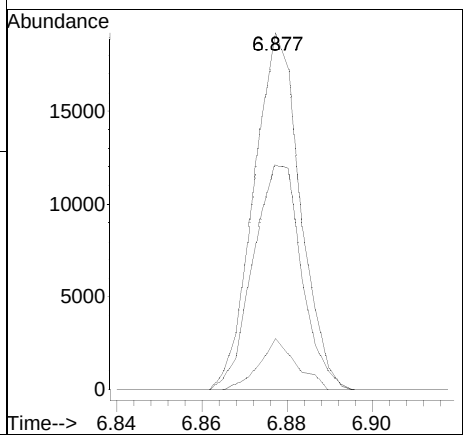


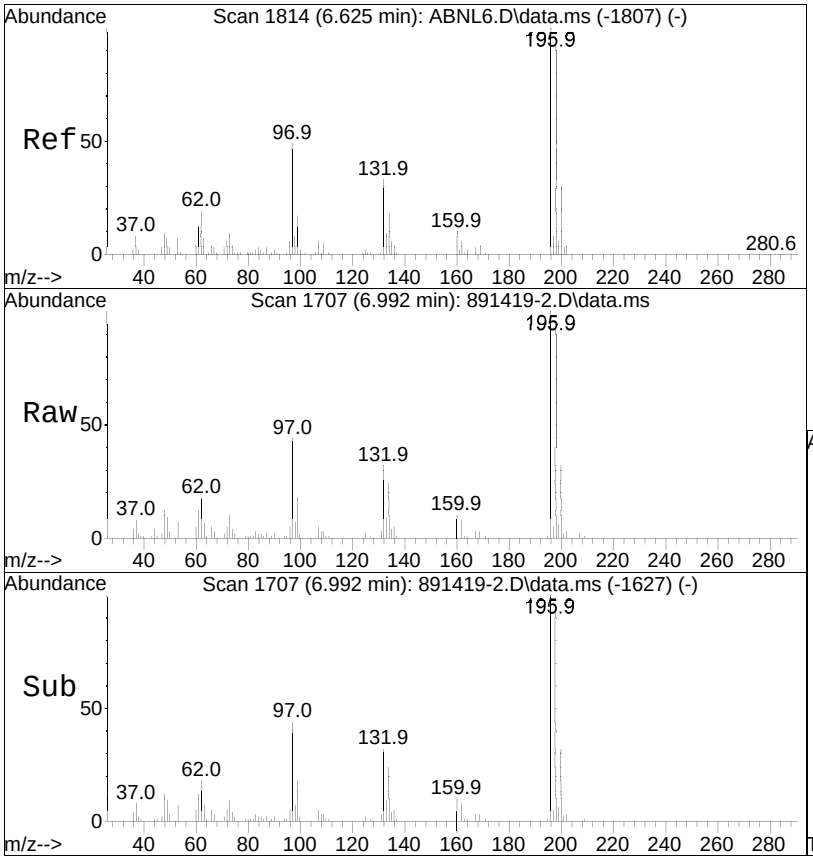


#41
Hexachlorocyclopentadiene
Concen: 2.81 ug/ml
RT: 6.877 min Scan# 1670
Delta R.T. -0.000 min
Lab File: 891419-2.D
Acq: 2 Mar 2024 4:31 pm

Tgt Ion:237 Resp: 14561

Ion	Ratio	Lower	Upper
237	100		
235	65.9	49.7	74.5
272	11.5	9.8	14.6

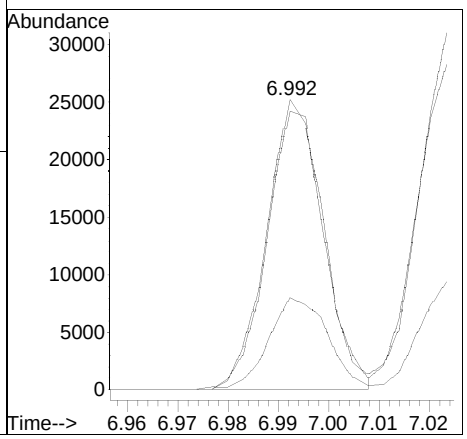


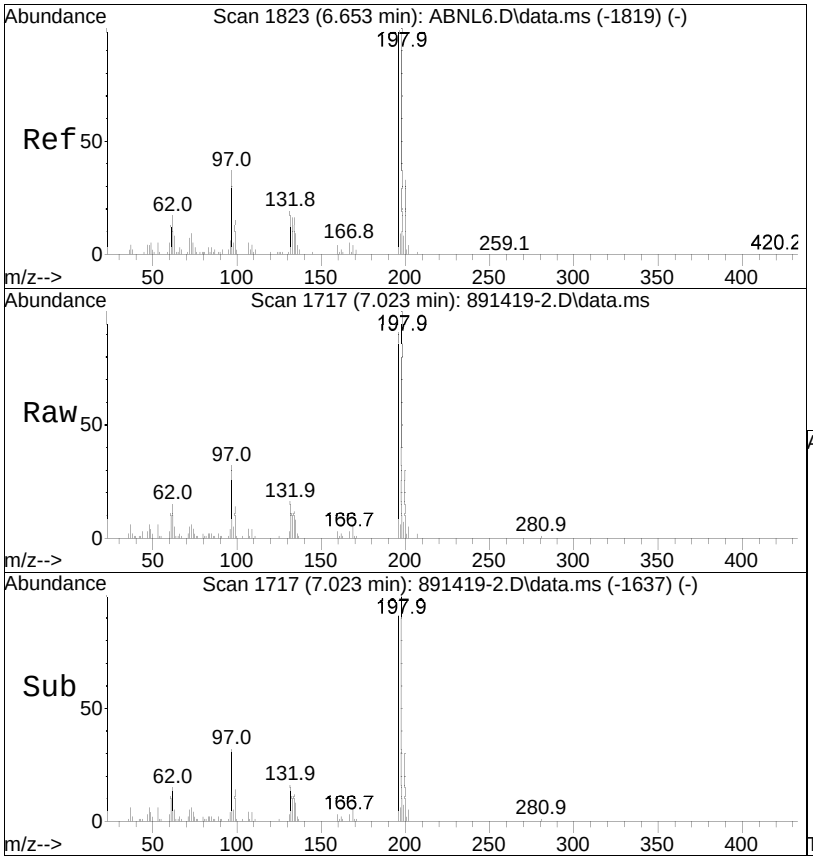


#42
2,4,6-Trichlorophenol
Concen: 3.25 ug/ml
RT: 6.992 min Scan# 1707
Delta R.T. -0.000 min
Lab File: 891419-2.D
Acq: 2 Mar 2024 4:31 pm

Tgt Ion:196 Resp: 19858

Ion	Ratio	Lower	Upper
196	100		
198	96.4	77.5	116.3
200	33.0	23.8	35.6

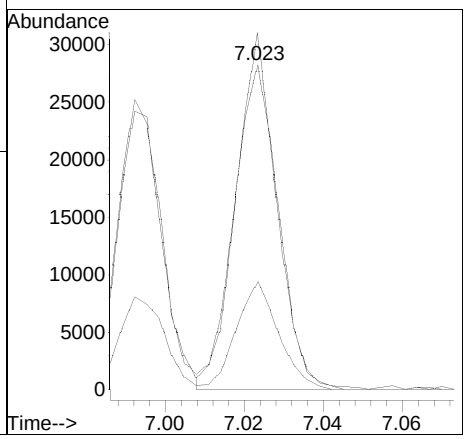


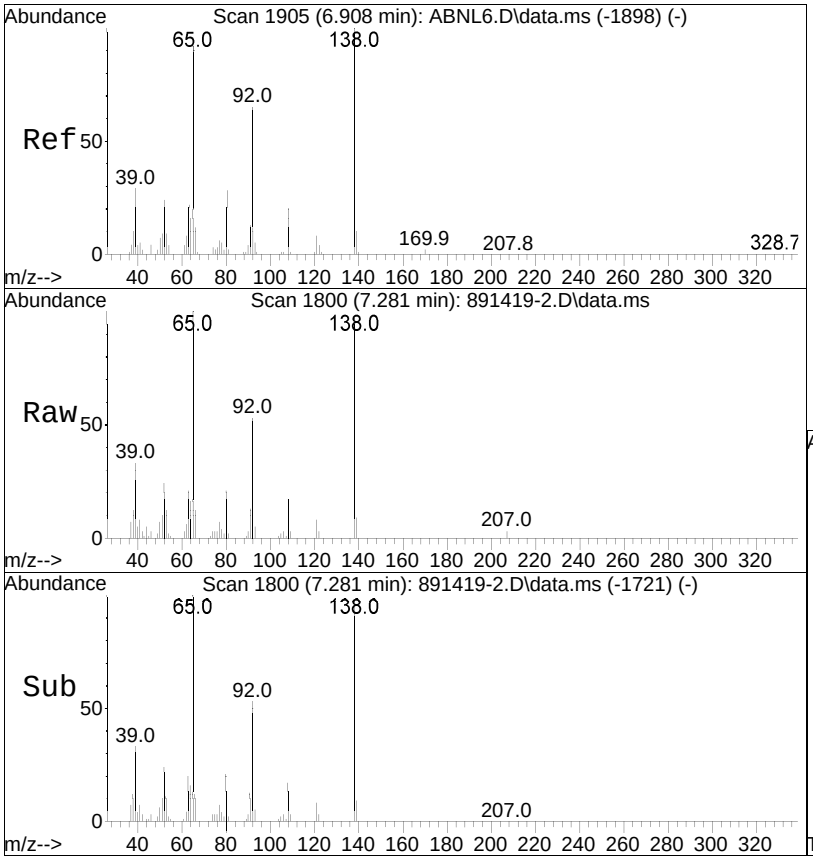


#43
2,4,5-Trichlorophenol
Concen: 3.30 ug/ml
RT: 7.023 min Scan# 1717
Delta R.T. -0.000 min
Lab File: 891419-2.D
Acq: 2 Mar 2024 4:31 pm

Tgt Ion:196 Resp: 22115

Ion	Ratio	Lower	Upper
196	100		
200	31.7	25.4	38.0
198	100.1	78.0	117.0

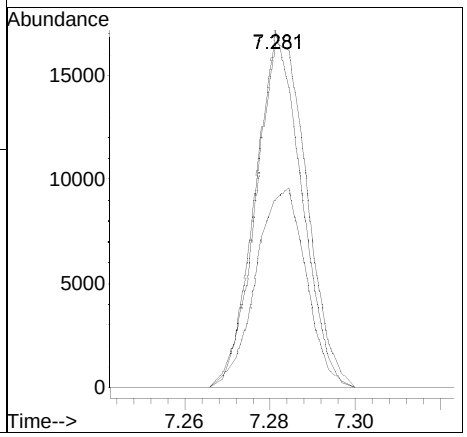


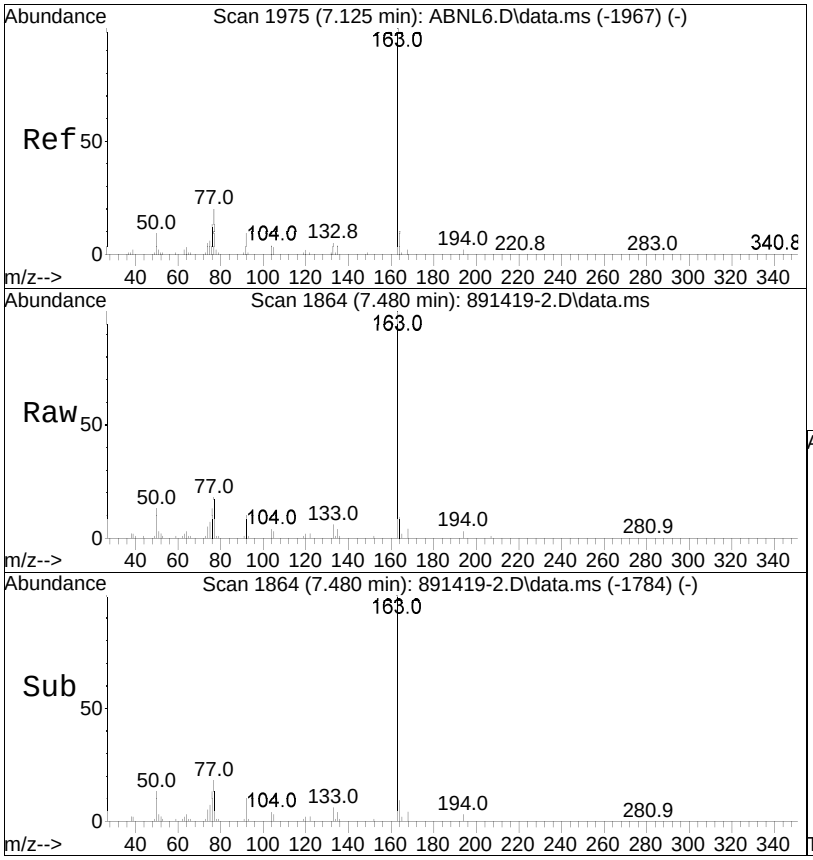


#46
2-Nitroaniline
Concen: 3.14 ug/ml
RT: 7.281 min Scan# 1800
Delta R.T. -0.003 min
Lab File: 891419-2.D
Acq: 2 Mar 2024 4:31 pm

Tgt Ion:138 Resp: 13717

Ion	Ratio	Lower	Upper
138	100		
92	57.1	53.5	80.3
65	93.9	86.3	129.5

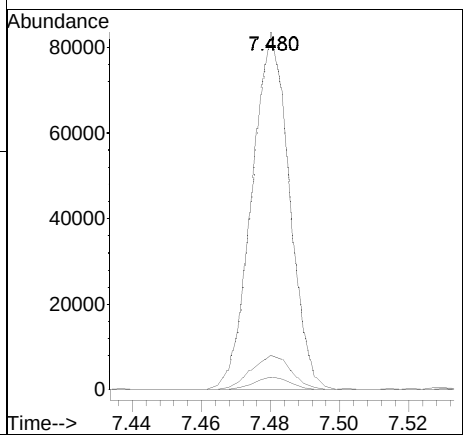


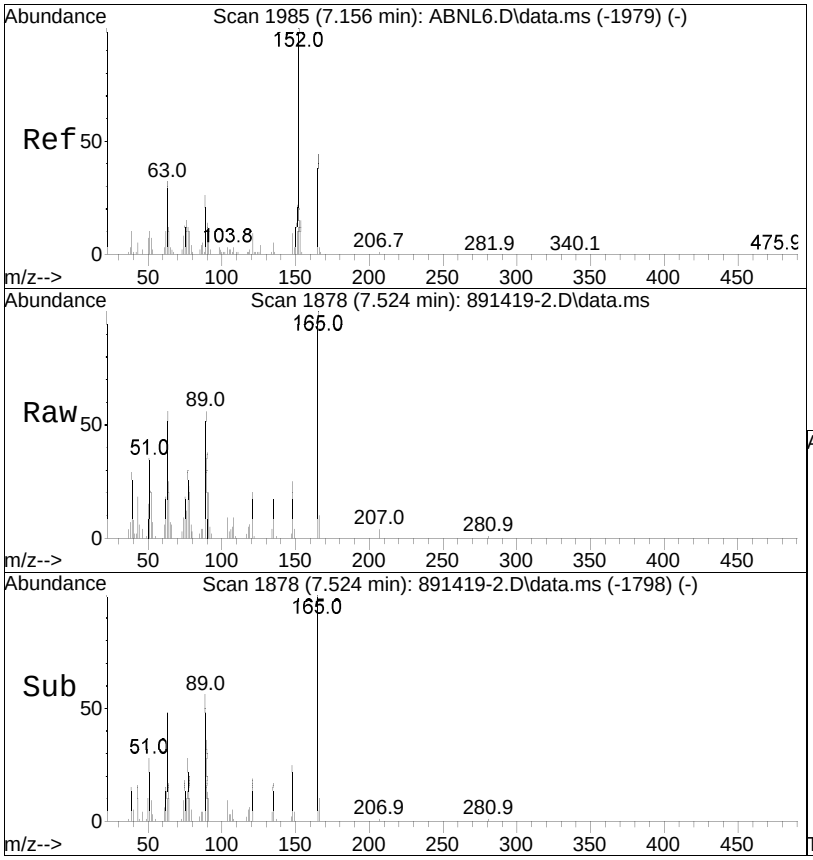


#49
Dimethyl phthalate
Concen: 3.28 ug/ml
RT: 7.480 min Scan# 1864
Delta R.T. -0.000 min
Lab File: 891419-2.D
Acq: 2 Mar 2024 4:31 pm

Tgt Ion:163 Resp: 62216

Ion	Ratio	Lower	Upper
163	100		
194	3.1	3.5	5.3#
164	10.1	7.9	11.9

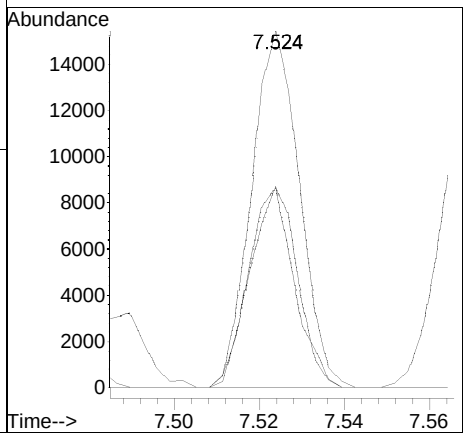


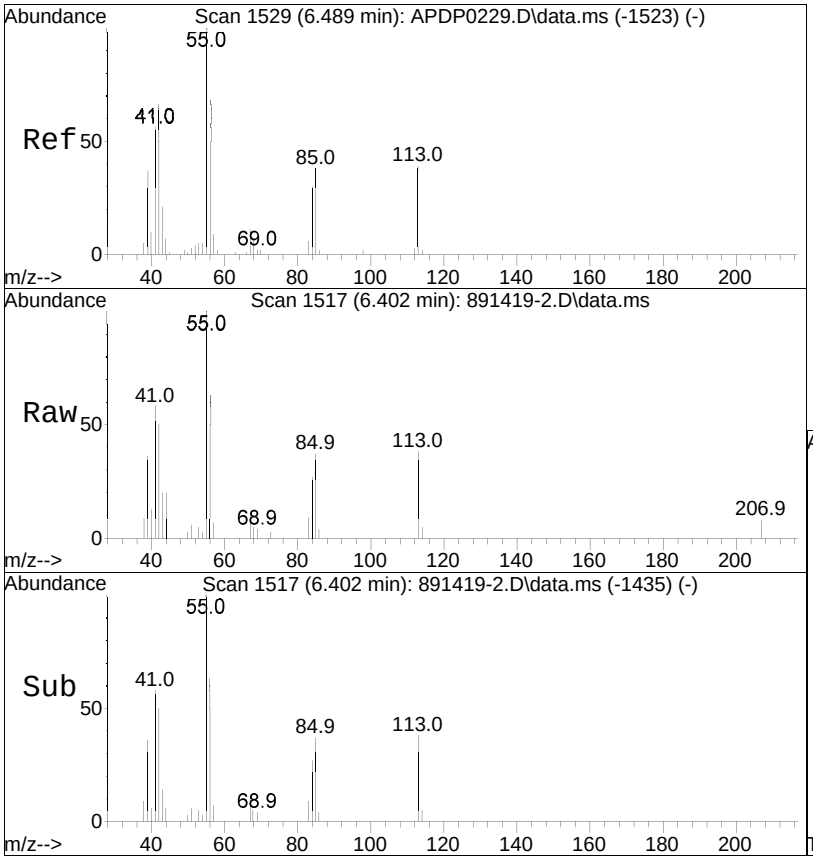


#51
2,6-Dinitrotoluene
Concen: 3.25 ug/ml
RT: 7.524 min Scan# 1878
Delta R.T. -0.000 min
Lab File: 891419-2.D
Acq: 2 Mar 2024 4:31 pm

Tgt Ion:165 Resp: 12073

Ion	Ratio	Lower	Upper
165	100		
89	52.3	54.2	81.2#
63	57.1	64.2	96.2#

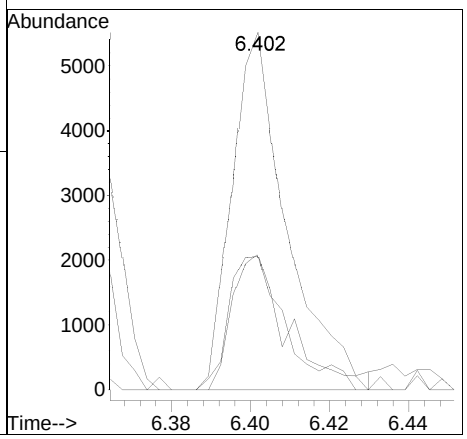


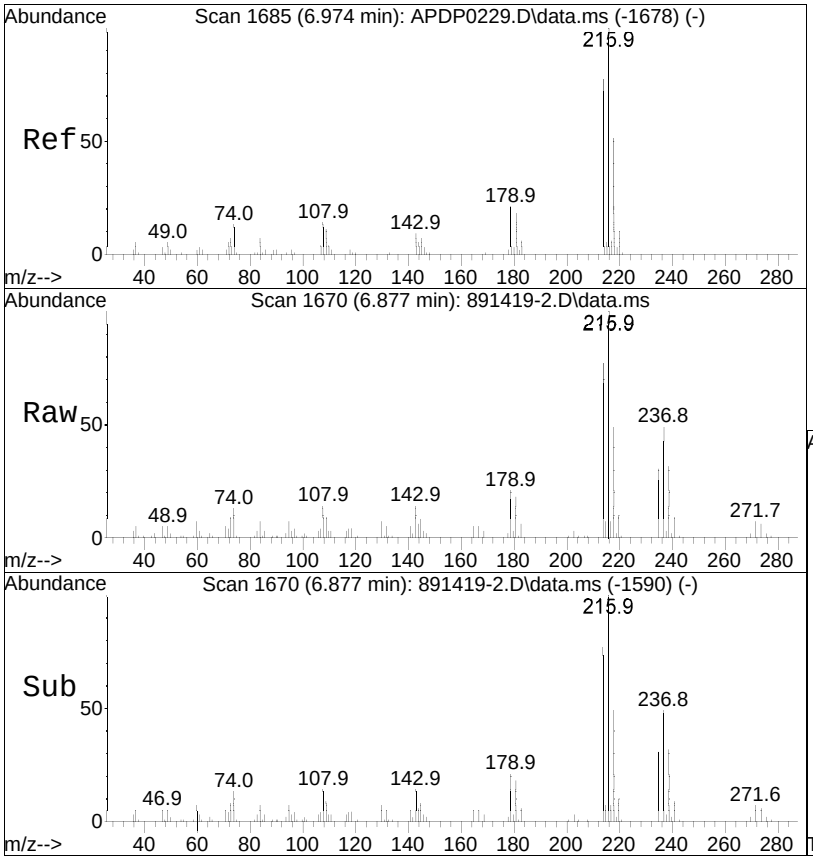


#58
Caprolactam
Concen: 1.47 ug/ml
RT: 6.402 min Scan# 1517
Delta R.T. 0.006 min
Lab File: 891419-2.D
Acq: 2 Mar 2024 4:31 pm

Tgt Ion: 55 Resp: 5352

Ion	Ratio	Lower	Upper
55	100		
85	38.4	19.8	29.6#
113	37.6	29.6	44.4

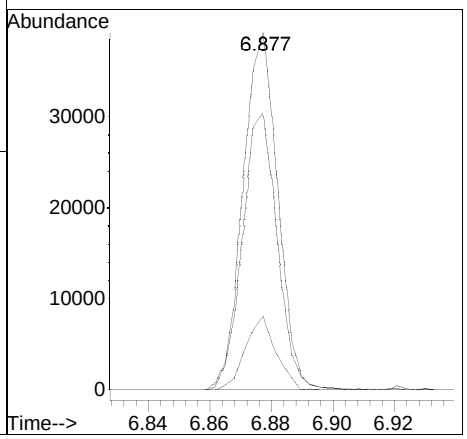


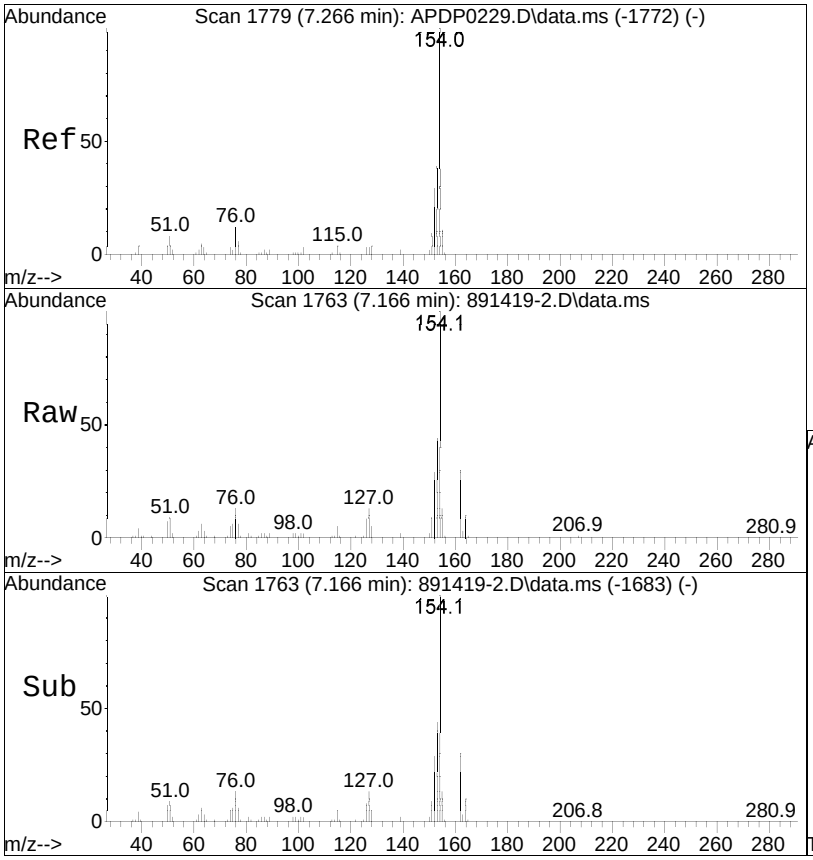


#59
1,2,4,5-Tetrachlorobenzene
Concen: 3.12 ug/ml
RT: 6.877 min Scan# 1670
Delta R.T. -0.000 min
Lab File: 891419-2.D
Acq: 2 Mar 2024 4:31 pm

Tgt Ion:216 Resp: 30791

Ion	Ratio	Lower	Upper
216	100		
214	77.5	63.7	95.5
179	18.2	19.0	28.6#

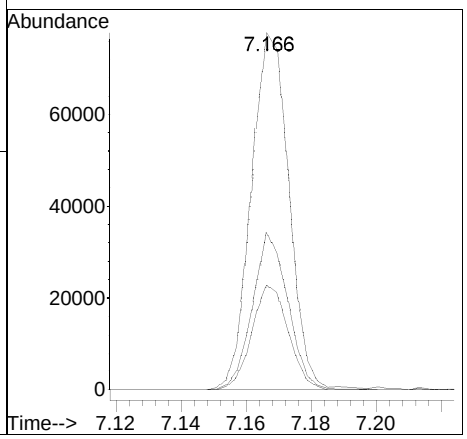


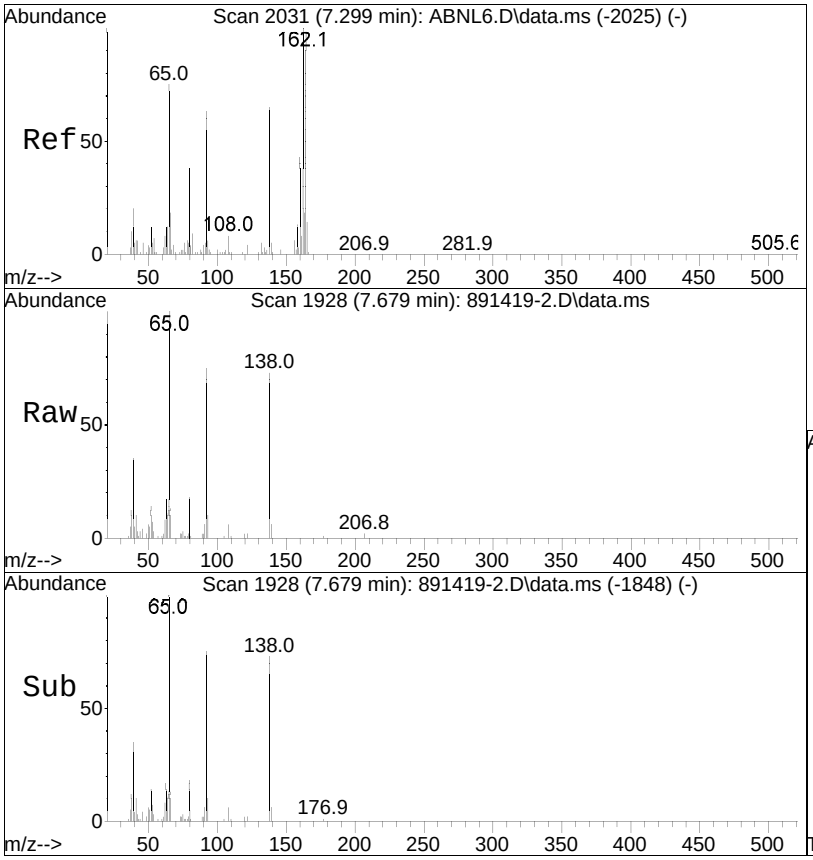


#60
Biphenyl
Concen: 3.17 ug/ml
RT: 7.166 min Scan# 1763
Delta R.T. -0.000 min
Lab File: 891419-2.D
Acq: 2 Mar 2024 4:31 pm

Tgt Ion:154 Resp: 62289

Ion	Ratio	Lower	Upper
154	100		
153	41.6	32.3	48.5
152	28.6	22.5	33.7

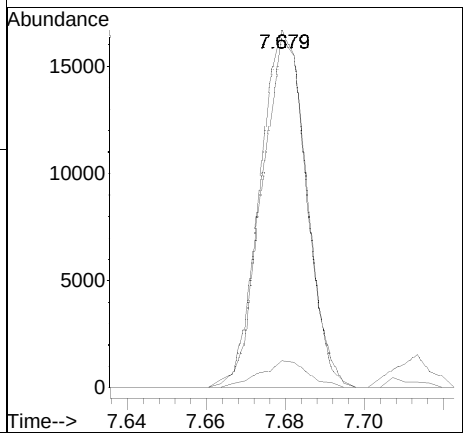


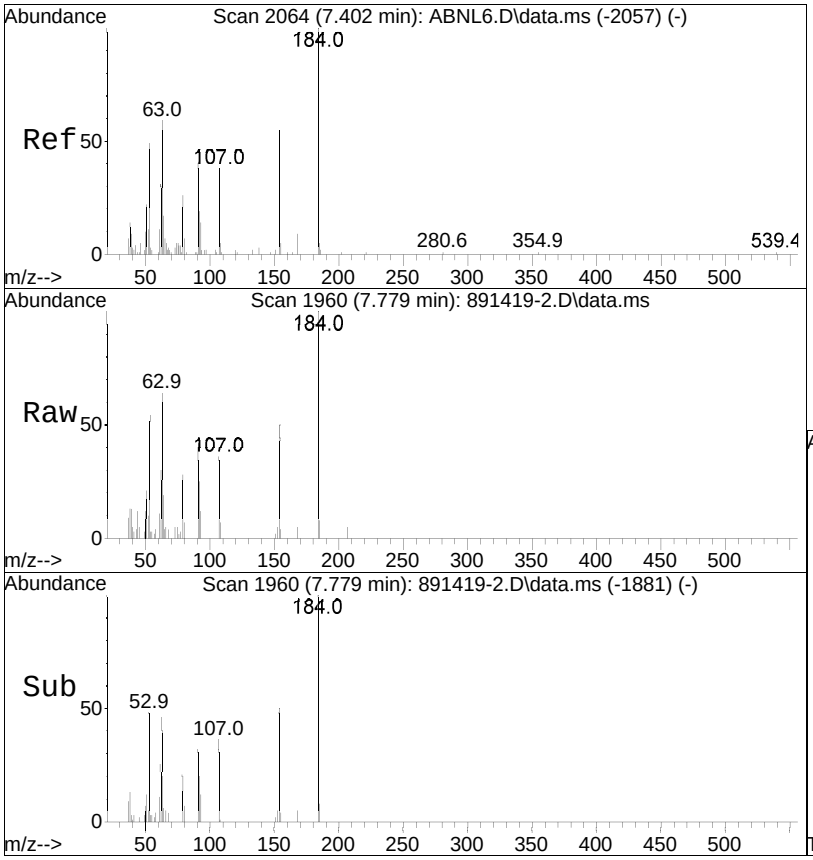


#62
3-Nitroaniline
Concen: 2.99 ug/ml
RT: 7.679 min Scan# 1928
Delta R.T. -0.000 min
Lab File: 891419-2.D
Acq: 2 Mar 2024 4:31 pm

Tgt Ion:138 Resp: 12803

Ion	Ratio	Lower	Upper
138	100		
92	105.7	93.4	140.2
108	8.1	9.5	14.3#

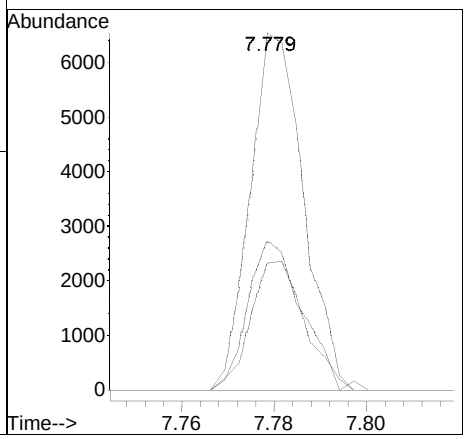


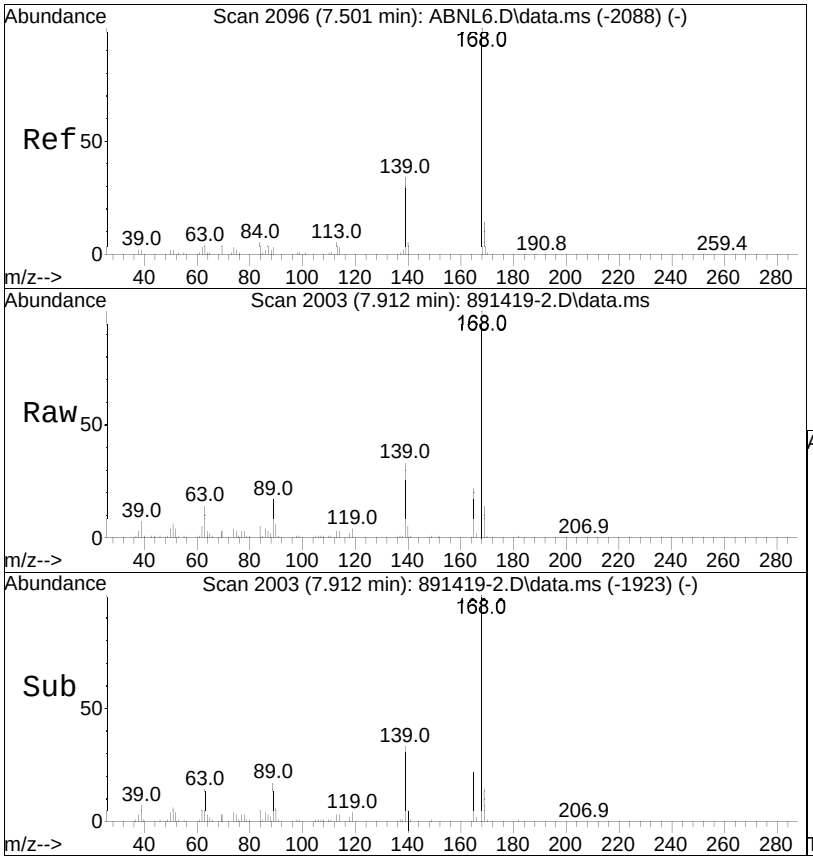


#64
2,4-Dinitrophenol
Concen: 2.69 ug/ml
RT: 7.779 min Scan# 1960
Delta R.T. -0.003 min
Lab File: 891419-2.D
Acq: 2 Mar 2024 4:31 pm

Tgt Ion:184 Resp: 5214

Ion	Ratio	Lower	Upper
184	100		
107	36.7	37.7	56.5#
91	42.6	46.3	69.5#

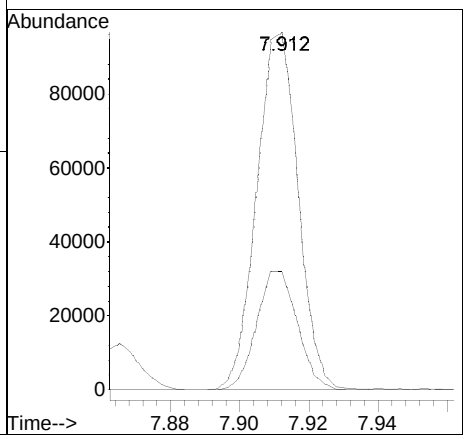


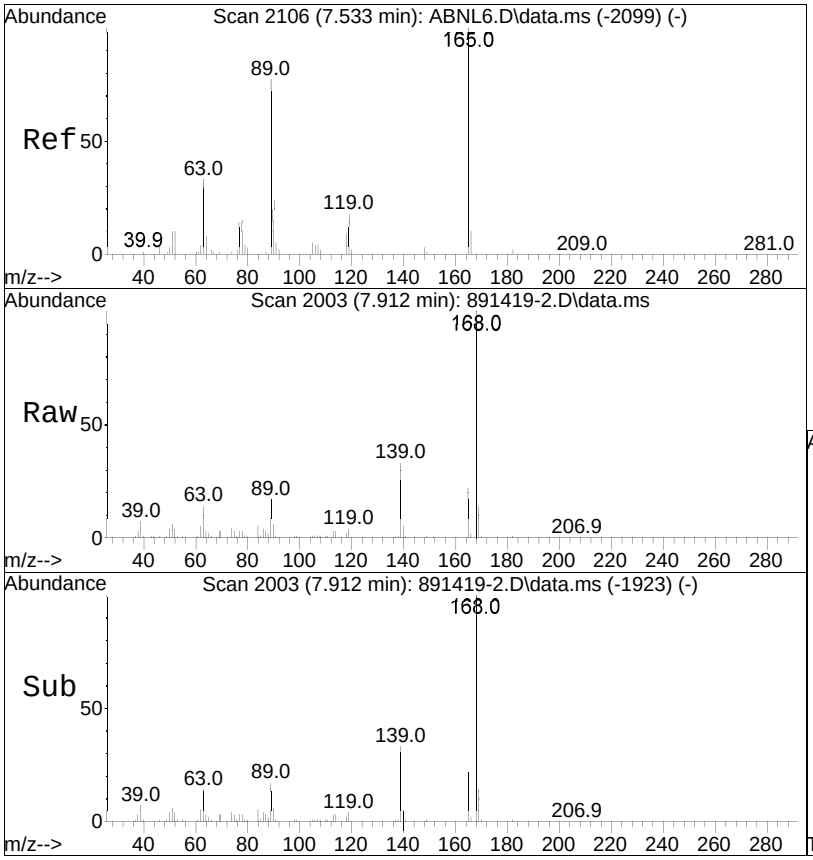


#65
Dibenzofuran
Concen: 3.00 ug/ml
RT: 7.912 min Scan# 2003
Delta R.T. -0.000 min
Lab File: 891419-2.D
Acq: 2 Mar 2024 4:31 pm

Tgt Ion:168 Resp: 79708

Ion	Ratio	Lower	Upper
168	100		
139	32.9	31.4	47.2

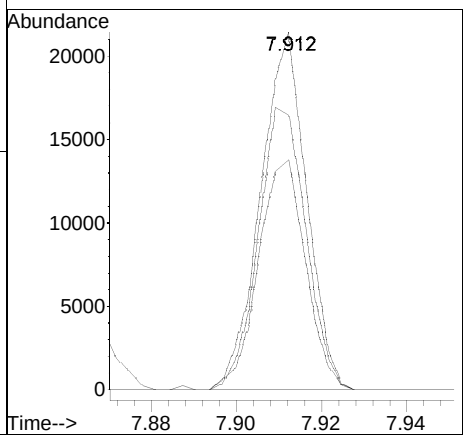


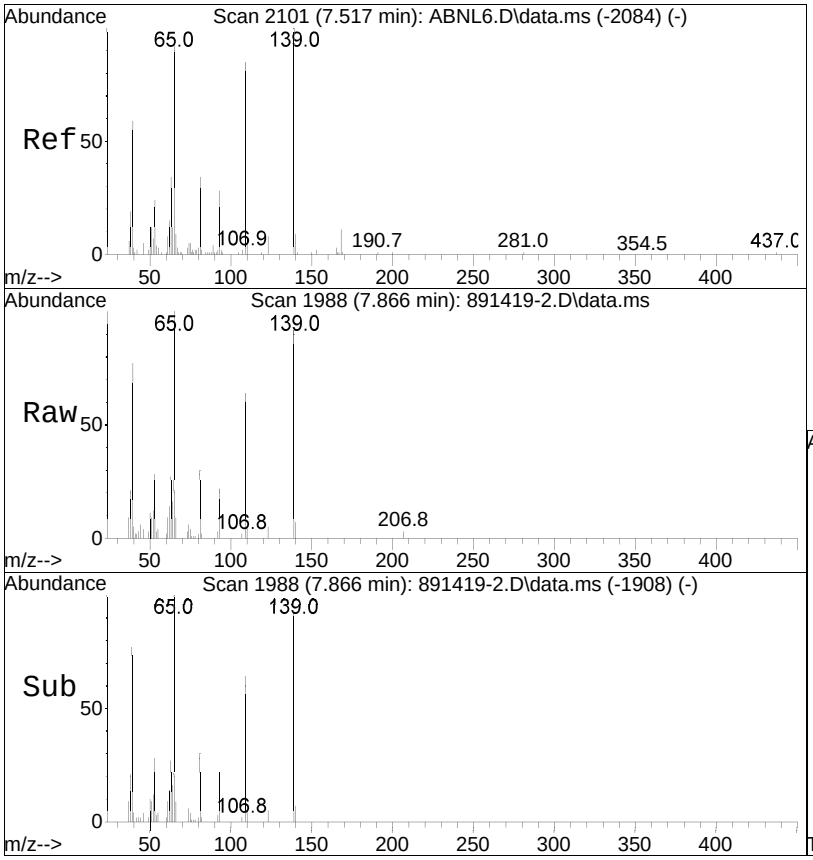


#66
2,4-Dinitrotoluene
Concen: 2.89 ug/ml
RT: 7.912 min Scan# 2003
Delta R.T. -0.000 min
Lab File: 891419-2.D
Acq: 2 Mar 2024 4:31 pm

Tgt Ion:165 Resp: 15989

Ion	Ratio	Lower	Upper
165	100		
89	81.9	72.0	108.0
63	66.5	52.7	79.1

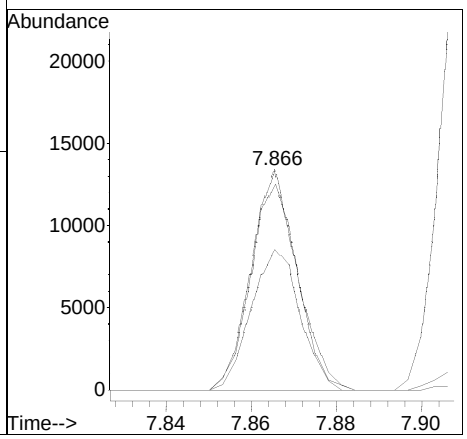


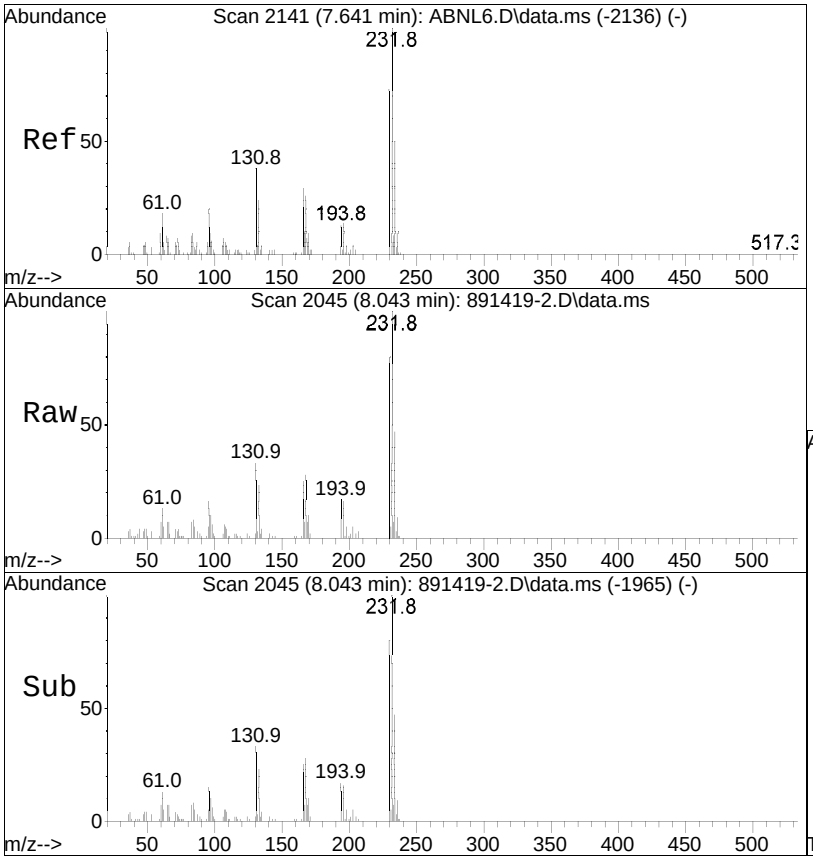


#67
4-Nitrophenol
Concen: 2.80 ug/ml
RT: 7.866 min Scan# 1988
Delta R.T. -0.000 min
Lab File: 891419-2.D
Acq: 2 Mar 2024 4:31 pm

Tgt Ion: 65 Resp: 9903

Ion	Ratio	Lower	Upper
65	100		
109	68.6	47.4	71.2
139	99.5	76.6	115.0

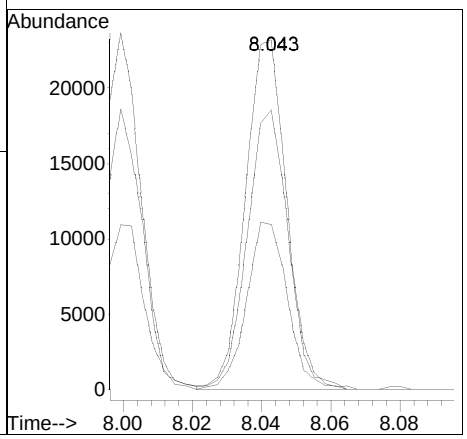


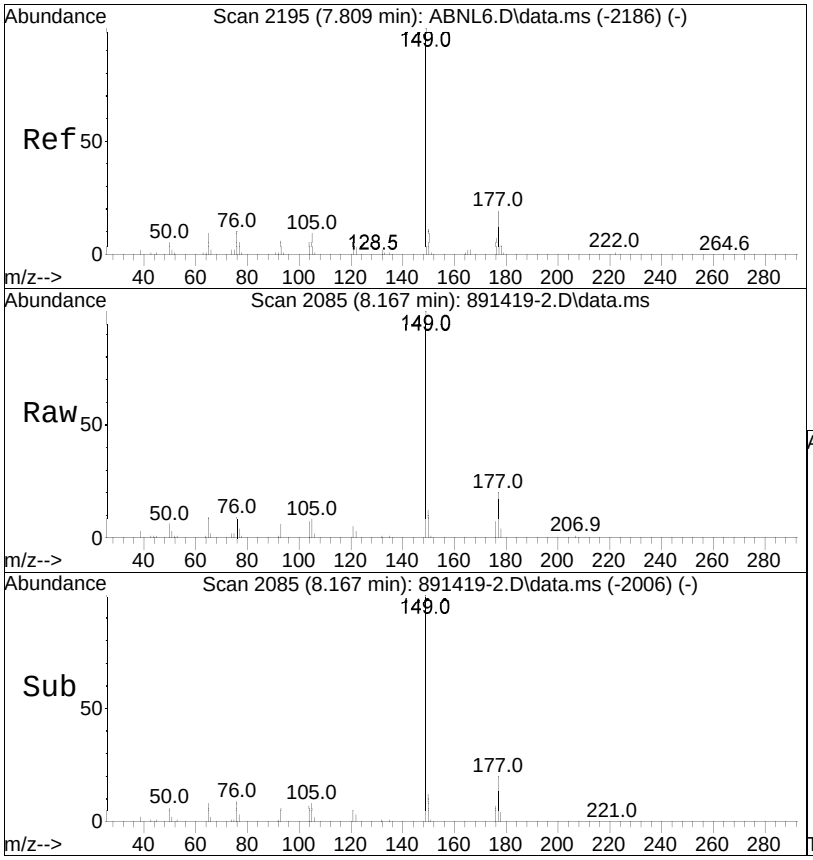


#69
2,3,4,6-Tetrachlorophenol
Concen: 3.23 ug/ml
RT: 8.043 min Scan# 2045
Delta R.T. -0.000 min
Lab File: 891419-2.D
Acq: 2 Mar 2024 4:31 pm

Tgt Ion:232 Resp: 19287

Ion	Ratio	Lower	Upper
232	100		
230	79.5	61.8	92.8
234	47.3	36.2	54.2

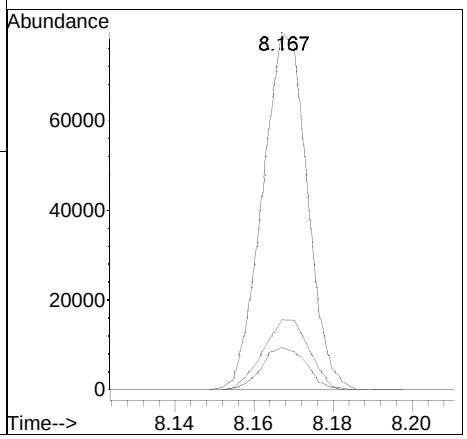


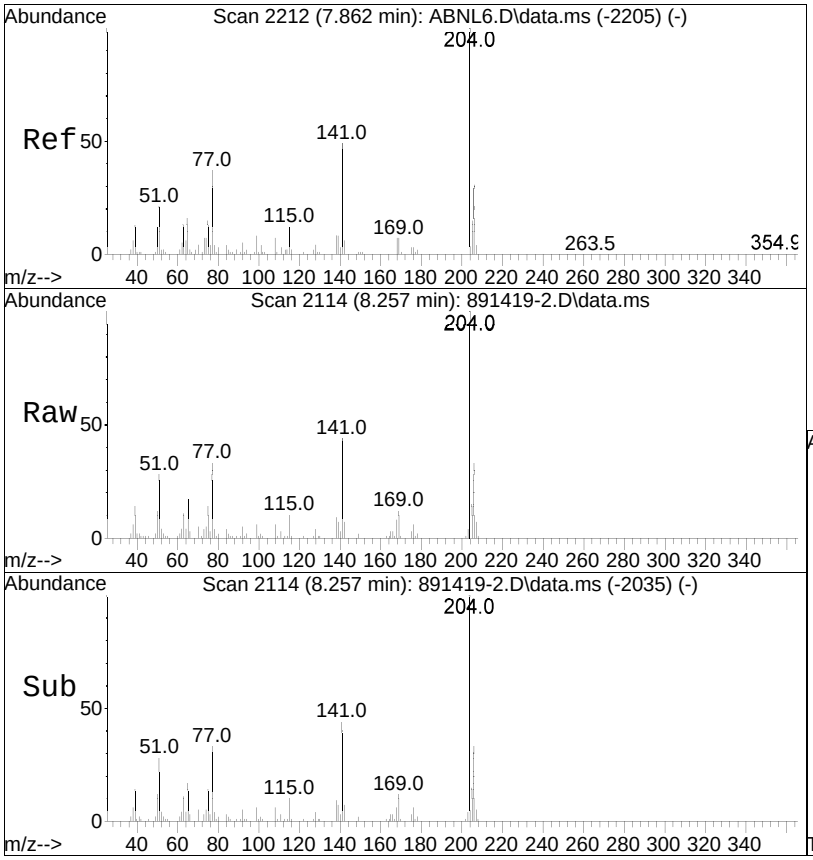


#70
Diethyl phthalate
Concen: 3.08 ug/ml
RT: 8.167 min Scan# 2085
Delta R.T. -0.003 min
Lab File: 891419-2.D
Acq: 2 Mar 2024 4:31 pm

Tgt Ion:149 Resp: 62064

Ion	Ratio	Lower	Upper
149	100		
177	20.5	16.1	24.1
150	12.0	9.4	14.2

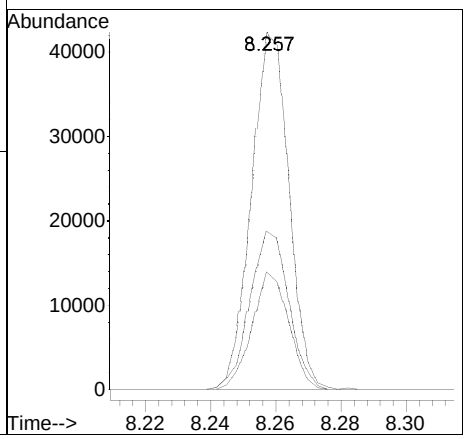


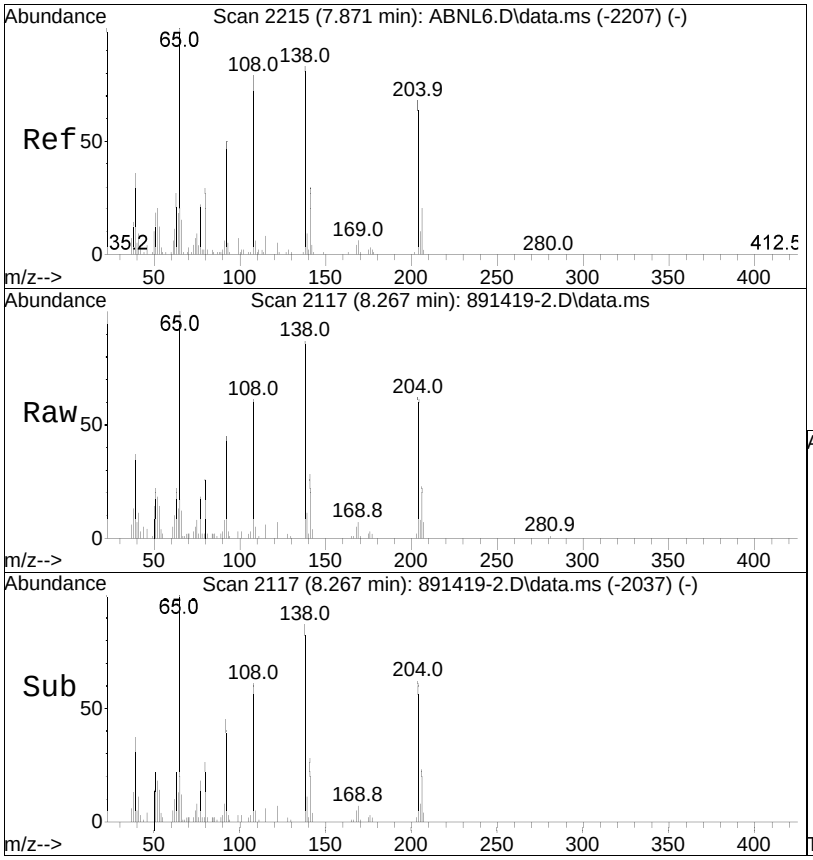


#72
4-Chlorophenyl phenyl ether
Concen: 3.14 ug/ml
RT: 8.257 min Scan# 2114
Delta R.T. -0.003 min
Lab File: 891419-2.D
Acq: 2 Mar 2024 4:31 pm

Tgt Ion:204 Resp: 33716

Ion	Ratio	Lower	Upper
204	100		
206	32.3	25.8	38.6
141	46.2	53.6	80.4#

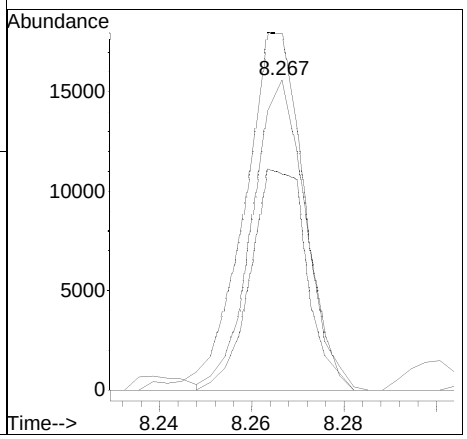


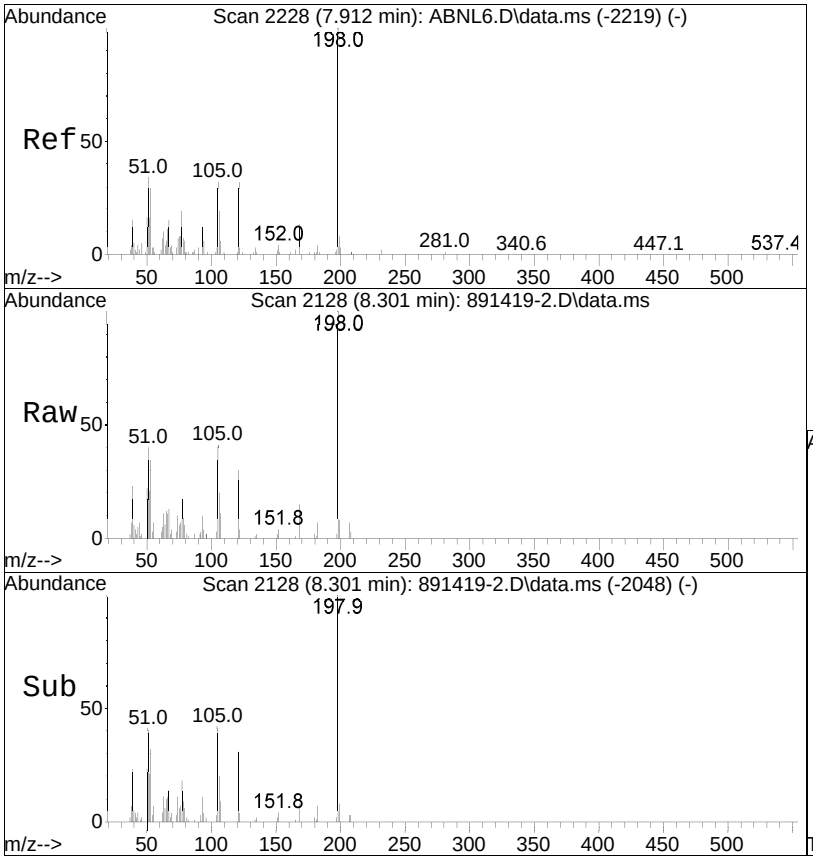


#73
4-Nitroaniline
Concen: 2.96 ug/ml
RT: 8.267 min Scan# 2117
Delta R.T. -0.000 min
Lab File: 891419-2.D
Acq: 2 Mar 2024 4:31 pm

Tgt Ion:138 Resp: 12560

Ion	Ratio	Lower	Upper
138	100		
108	74.5	52.1	78.1
65	129.5	115.0	172.6

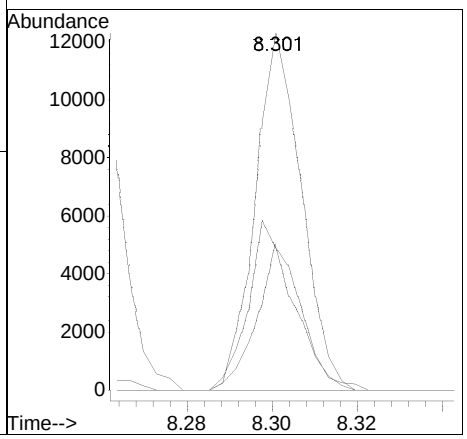


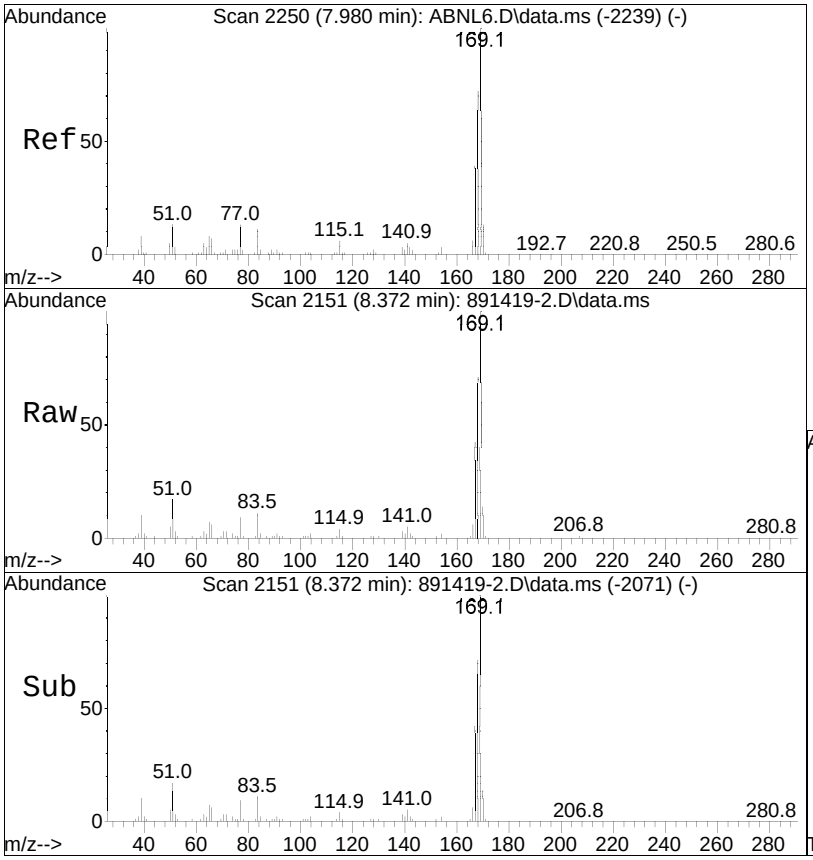


#74
4,6-Dinitro-o-cresol
Concen: 3.09 ug/ml
RT: 8.301 min Scan# 2128
Delta R.T. -0.000 min
Lab File: 891419-2.D
Acq: 2 Mar 2024 4:31 pm

Tgt Ion:198 Resp: 9232

Ion	Ratio	Lower	Upper
198	100		
51	49.3	76.0	114.0#
105	36.4	45.6	68.4#

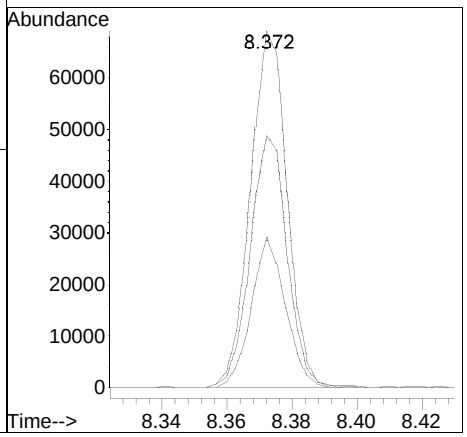


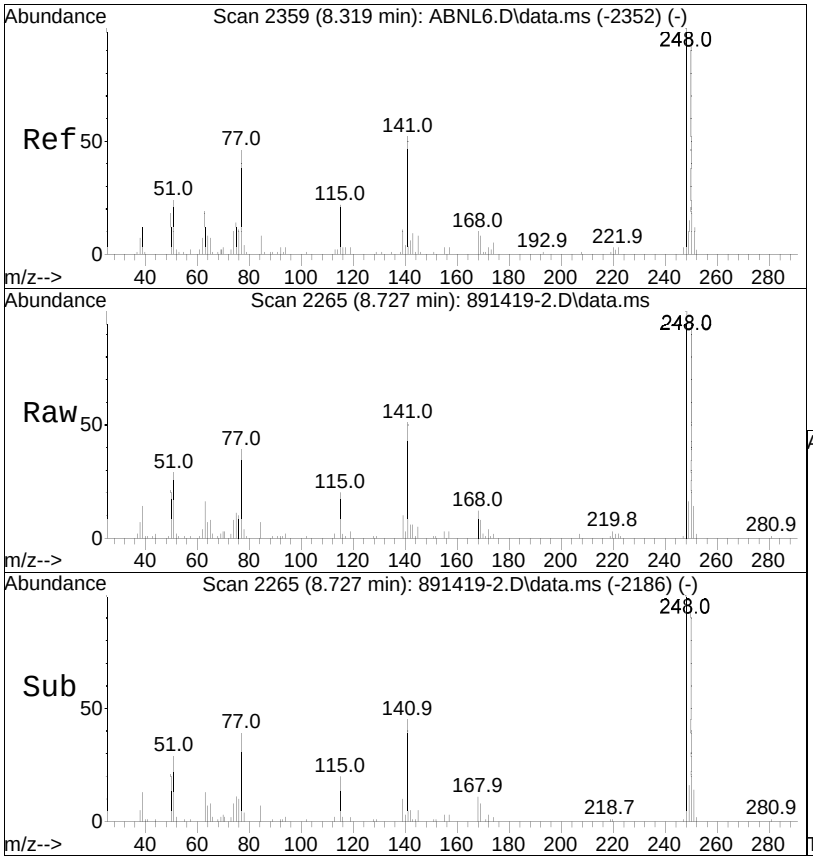


#75
NDPA/DPA
Concen: 3.22 ug/ml
RT: 8.372 min Scan# 2151
Delta R.T. -0.000 min
Lab File: 891419-2.D
Acq: 2 Mar 2024 4:31 pm

Tgt Ion:169 Resp: 54071

Ion	Ratio	Lower	Upper
169	100		
168	71.1	54.0	81.0
167	39.4	28.6	42.8

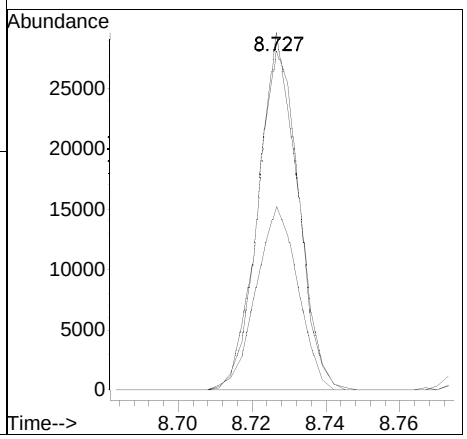


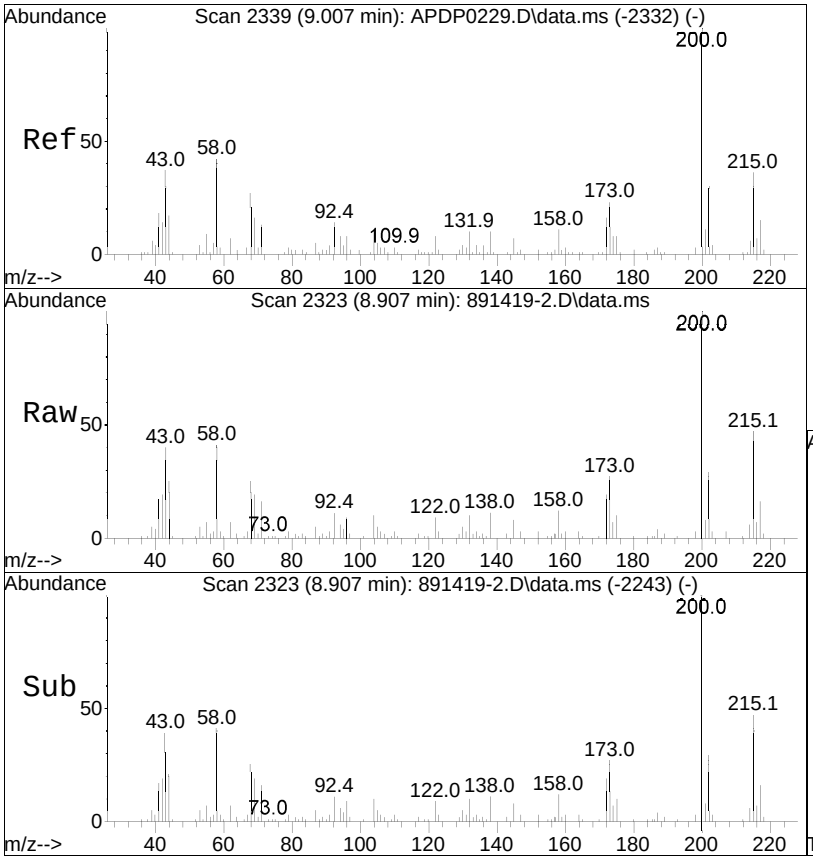


#78
4-Bromophenyl phenyl ether
Concen: 3.21 ug/ml
RT: 8.727 min Scan# 2265
Delta R.T. -0.003 min
Lab File: 891419-2.D
Acq: 2 Mar 2024 4:31 pm

Tgt Ion:248 Resp: 21996

Ion	Ratio	Lower	Upper
248	100		
141	54.5	76.6	114.8#
250	98.3	77.3	115.9

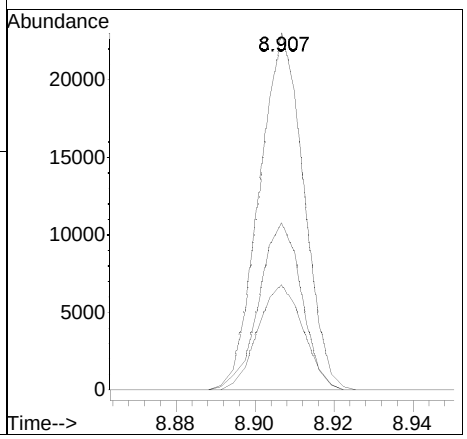


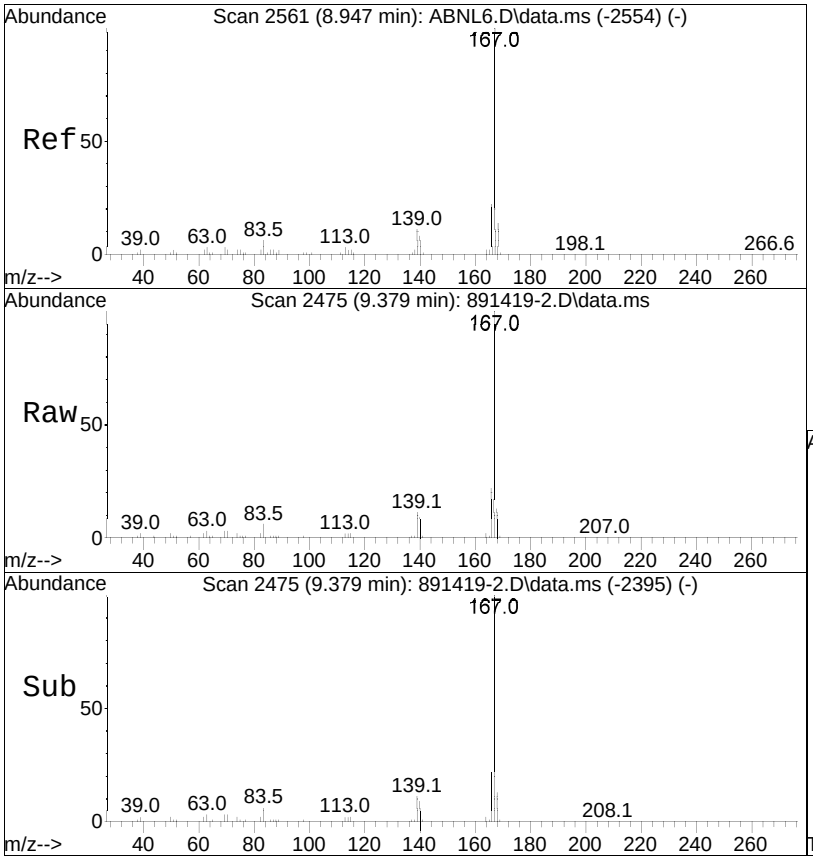


#84
Atrazine
Concen: 3.10 ug/ml
RT: 8.907 min Scan# 2323
Delta R.T. -0.000 min
Lab File: 891419-2.D
Acq: 2 Mar 2024 4:31 pm

Tgt Ion:200 Resp: 17907

Ion	Ratio	Lower	Upper
200	100		
202	30.2	25.8	38.6
215	45.0	40.2	60.4

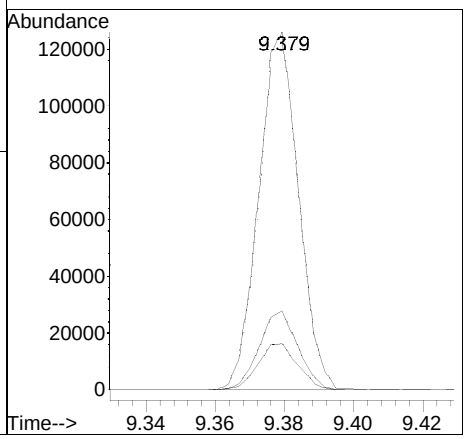


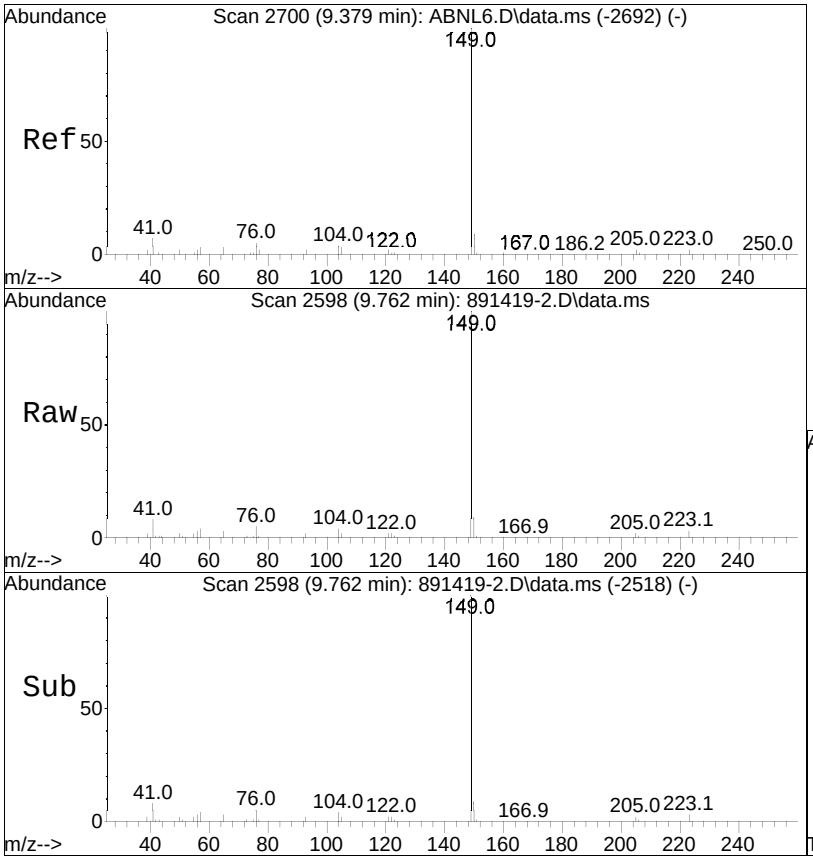


#88
Carbazole
Concen: 3.00 ug/ml
RT: 9.379 min Scan# 2475
Delta R.T. -0.000 min
Lab File: 891419-2.D
Acq: 2 Mar 2024 4:31 pm

Tgt Ion:167 Resp: 99520

Ion	Ratio	Lower	Upper
167	100		
168	13.1	10.6	15.8
166	21.7	17.4	26.0

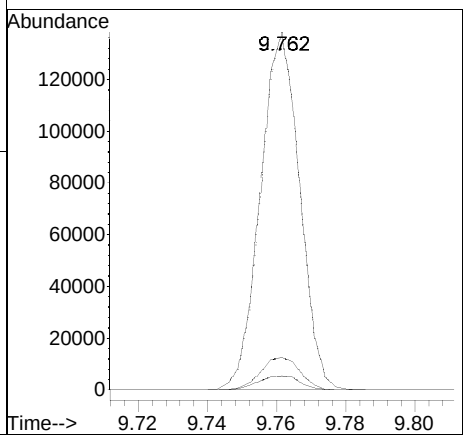


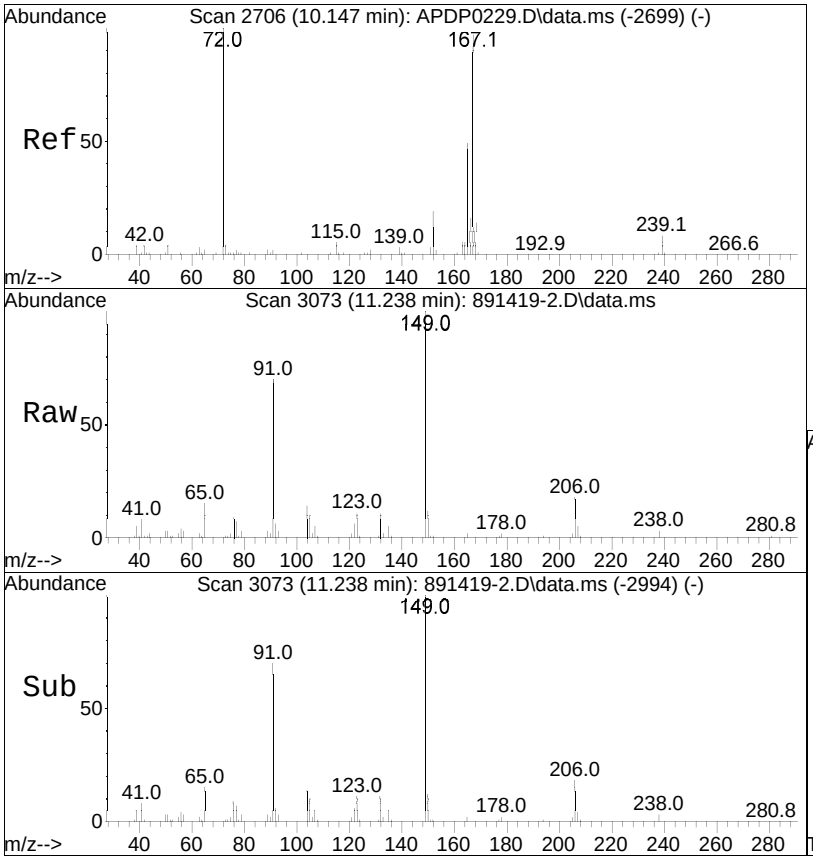


#89
Di-n-butylphthalate
Concen: 2.91 ug/ml
RT: 9.762 min Scan# 2598
Delta R.T. -0.000 min
Lab File: 891419-2.D
Acq: 2 Mar 2024 4:31 pm

Tgt Ion:149 Resp: 107428

Ion	Ratio	Lower	Upper
149	100		
150	9.2	7.0	10.6
104	4.2	4.5	6.7#

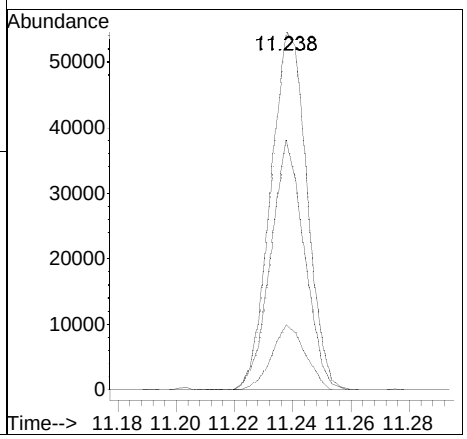


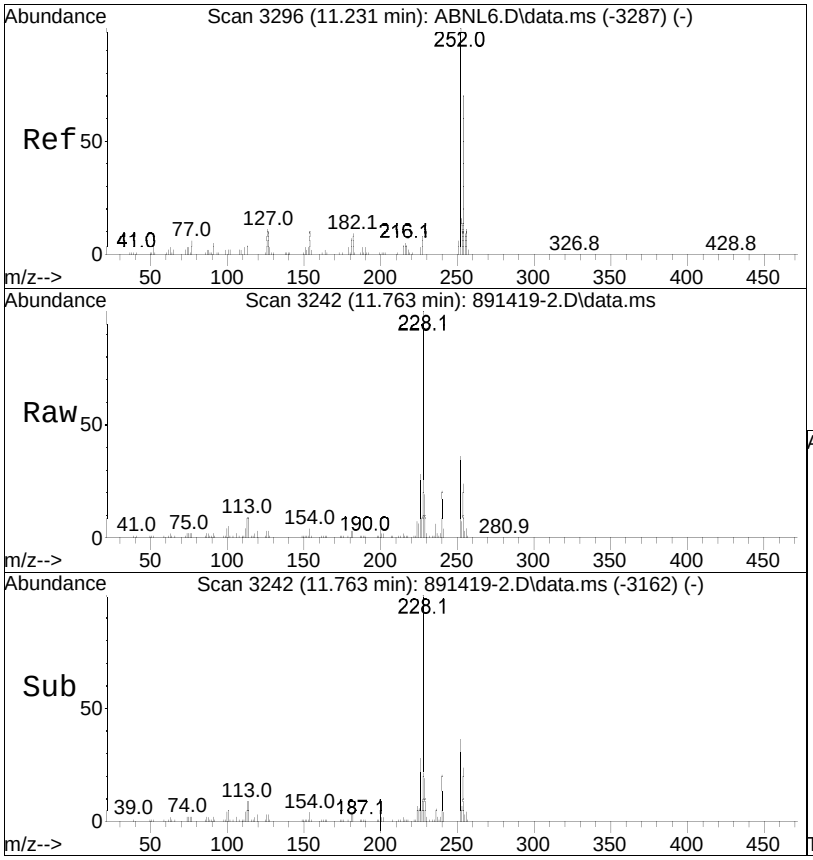


#94
Butyl benzyl phthalate
Concen: 2.89 ug/ml
RT: 11.238 min Scan# 3073
Delta R.T. -0.003 min
Lab File: 891419-2.D
Acq: 2 Mar 2024 4:31 pm

Tgt Ion:149 Resp: 46935

Ion	Ratio	Lower	Upper
149	100		
91	64.9	63.3	94.9
206	16.9	13.9	20.9

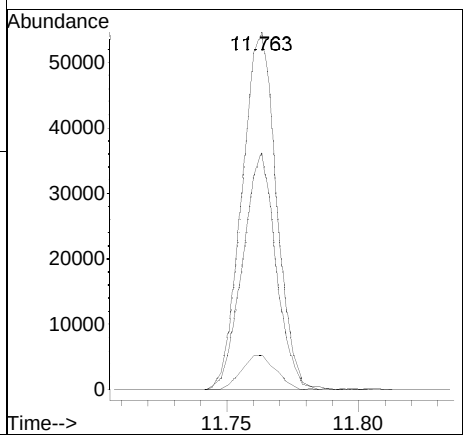


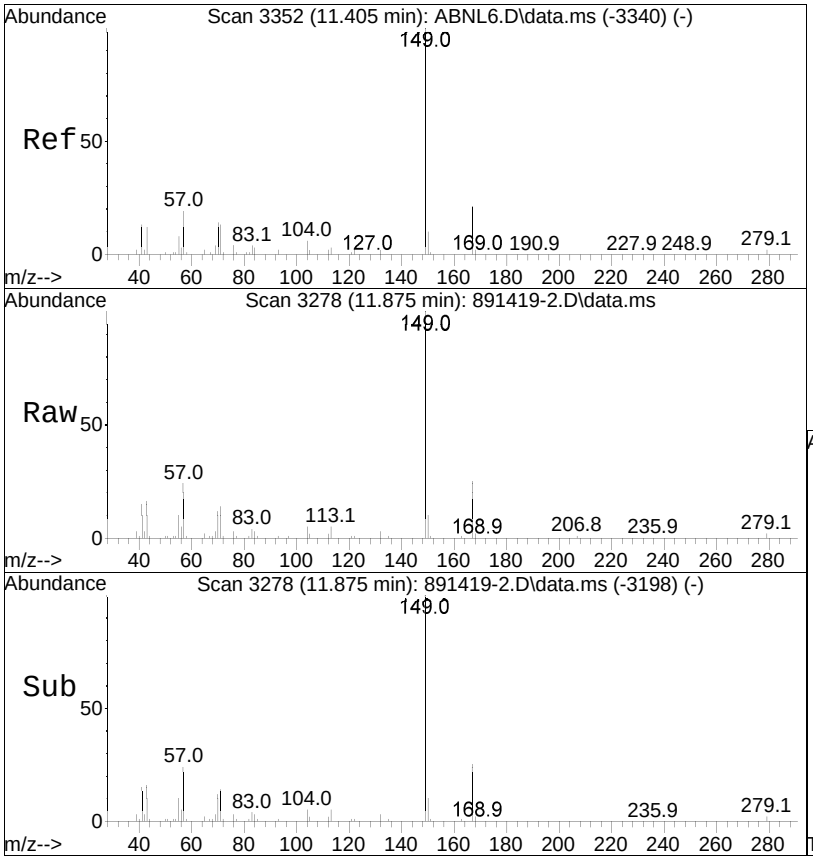


#102
3,3'-Dichlorobenzidine
Concen: 2.69 ug/ml
RT: 11.763 min Scan# 3242
Delta R.T. -0.000 min
Lab File: 891419-2.D
Acq: 2 Mar 2024 4:31 pm

Tgt Ion:252 Resp: 49497

Ion	Ratio	Lower	Upper
252	100		
126	10.0	14.5	21.7#
254	64.2	51.2	76.8

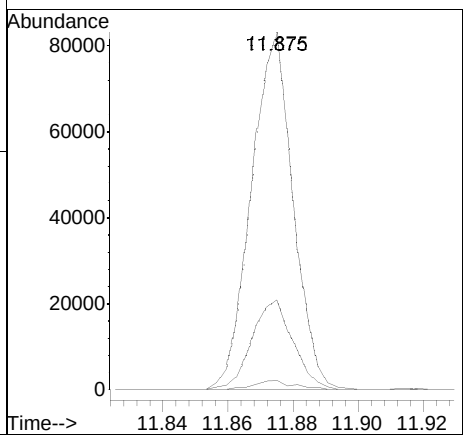


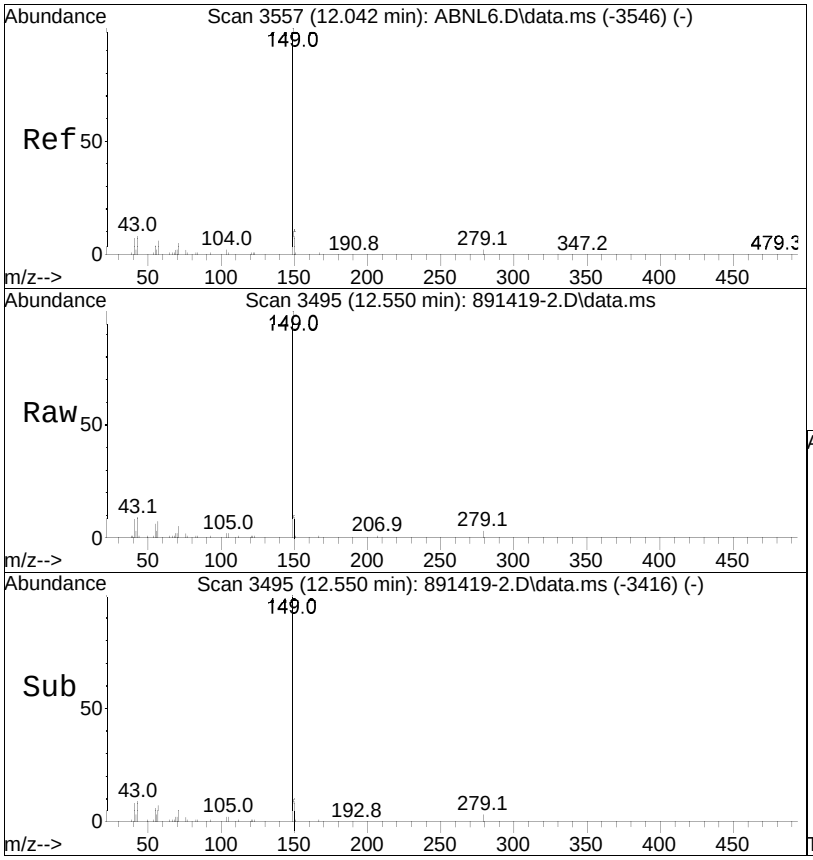


#104
Bis(2-ethylhexyl)phthalate
Concen: 2.82 ug/ml
RT: 11.875 min Scan# 3278
Delta R.T. -0.000 min
Lab File: 891419-2.D
Acq: 2 Mar 2024 4:31 pm

Tgt Ion:149 Resp: 73055

Ion	Ratio	Lower	Upper
149	100		
167	24.8	22.1	33.1
279	2.2	3.0	4.4#

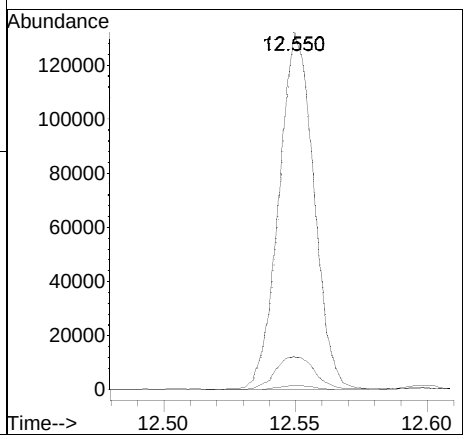




#105
Di-n-octylphthalate
Concen: 2.91 ug/ml
RT: 12.550 min Scan# 3495
Delta R.T. -0.003 min
Lab File: 891419-2.D
Acq: 2 Mar 2024 4:31 pm

Tgt Ion:149 Resp: 120308

Ion	Ratio	Lower	Upper
149	100		
43	10.0	18.8	28.2#
167	1.3	1.3	1.9#



Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240304nlvi\
Data File : 892048-2.D
Acq On : 5 Mar 2024 5:19 am
Operator : SV106:ljg
Sample : WG1892048-2,32,,gmr
Misc : WG1891342,WG1892048,ical20337
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Mar 05 13:21:50 2024
Quant Method : I:\8270\SV106\240304nlvi\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Mar 05 11:20:52 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv106\240304nlvi\ABN0304n.D
: 2 - I:\8270\sv106\240304nlvi\ADP0304n.D
: 3 - I:\8270\sv106\240304nlvi\AP90304n.D
Sub List : 8270TCL_REV2 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) IS1_1,4-Dichlorobenzen...	6.325	152	49300	4.000	ug/ml		0.00
Standard Area 1 = 44264			Recovery = 111.38%				
27) IS2_1,4-Dichlorobenzen...	6.325	152	49300	4.000	ug/ml		0.00
Standard Area 3 = 45624			Recovery = 108.06%				
32) IS3_1,4-Dichlorobenzen...	6.325	152	49300	4.000	ug/ml		0.00
Standard Area 2 = 44909			Recovery = 109.78%				
34) IS1_Naphthalene-d8	7.760	136	178242	4.000	ug/ml	#	0.00
Standard Area 1 = 170941			Recovery = 104.27%				
54) IS2_Naphthalene-d8	7.760	136	178242	4.000	ug/ml	#	0.00
Standard Area 3 = 165553			Recovery = 107.66%				
62) IS1_Acenaphthene-d10	9.524	164	106813	4.000	ug/ml		0.00
Standard Area 1 = 107442			Recovery = 99.41%				
82) IS2_Acenaphthene-d10	9.524	164	106813	4.000	ug/ml		0.00
Standard Area 3 = 100303			Recovery = 106.49%				
85) IS3_Acenaphthene-d10	9.524	164	106813	4.000	ug/ml		0.00
Standard Area 2 = 98087			Recovery = 108.90%				
87) IS1_Phenanthrene-d10	10.960	188	203293	4.000	ug/ml		0.00
Standard Area 1 = 227092			Recovery = 89.52%				
99) IS3_Phenanthrene-d10	10.960	188	203293	4.000	ug/ml		0.00
Standard Area 2 = 217156			Recovery = 93.62%				
103) IS1_Chrysene-d12	13.583	240	150293	4.000	ug/ml		0.00
Standard Area 1 = 207444			Recovery = 72.45%				
112) IS1_Perylene-d12	15.036	264	164712	4.000	ug/ml		0.00
Standard Area 1 = 227846			Recovery = 72.29%				
System Monitoring Compounds							
4) 2-Fluorophenol	4.354	112	40305	2.931	ug/ml		0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 58.62%				
7) Phenol-d6	5.966	99	44658	2.521	ug/ml		0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 50.42%				
19) Nitrobenzene-d5	6.989	82	28604	1.781	ug/ml		0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 71.24%				
45) 2-Fluorobiphenyl	8.889	172	62020	1.823	ug/ml		0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 72.92%				
78) 2,4,6-Tribromophenol	10.295	330	18131	3.699	ug/ml		0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 73.98%				

Data Path : I:\8270\SV106\240304nlvi\
Data File : 892048-2.D
Acq On : 5 Mar 2024 5:19 am
Operator : SV106:ljg
Sample : WG1892048-2,32,,gmr
Misc : WG1891342,WG1892048,ical20337
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Mar 05 13:21:50 2024
Quant Method : I:\8270\SV106\240304nlvi\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Mar 05 11:20:52 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv106\240304nlvi\ABN0304n.D
: 2 - I:\8270\sv106\240304nlvi\ADP0304n.D
: 3 - I:\8270\sv106\240304nlvi\AP90304n.D
Sub List : 8270TCL_REV2 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
95) 4-Terphenyl-d14	12.542	244	76500	1.716	ug/ml	0.00

Spiked Amount 2.500 Range 30 - 130 Recovery = 68.64%

Target Compounds					Qvalue
6) 2-Chlorophenol	6.060	128	50153	3.194 ug/ml	95
8) Phenol	5.978	94	46442	2.477 ug/ml	96
9) Bis(2-chloroethyl)ether	6.048	93	50020	3.322 ug/ml#	81
14) Bis(2-chloroisopropyl)...	6.719	45	78212	3.526 ug/ml#	57
15) 2-Methylphenol	6.719	108	44182	3.151 ug/ml	98
17) n-Nitrosodi-n-propylamine	6.872	70	37541	3.299 ug/ml	93
18) 3-Methylphenol/4-Methy...	6.907	108	51722	3.516 ug/ml	91
20) Nitrobenzene	7.013	77	54989	3.446 ug/ml	97
21) Isophorone	7.295	82	98725	3.233 ug/ml	95
22) 2-Nitrophenol	7.372	139	25876	4.055 ug/ml#	93
23) 2,4-Dimethylphenol	7.477	107	42944	2.720 ug/ml	95
24) Bis(2-chloroethoxy)met...	7.572	93	65182	3.407 ug/ml#	96
25) 2,4-Dichlorophenol	7.636	162	45889	3.461 ug/ml	95
28) Benzaldehyde	5.742	105	42742	3.736 ug/ml	97
29) Acetophenone	6.830	105	74756	3.042 ug/ml#	81
37) 4-Chloroaniline	7.872	65	19060	3.240 ug/ml	93
39) p-Chloro-m-cresol	8.401	107	48864	3.762 ug/ml	99
42) Hexachlorocyclopentadiene	8.677	237	29811	3.051 ug/ml	96
43) 2,4,6-Trichlorophenol	8.801	196	38696	4.163 ug/ml	95
44) 2,4,5-Trichlorophenol	8.830	196	40768	4.078 ug/ml	96
47) 2-Nitroaniline	9.095	138	33420	4.137 ug/ml	96
50) Dimethyl phthalate	9.301	163	134025	3.820 ug/ml#	99
52) 2,6-Dinitrotoluene	9.342	165	27626	4.171 ug/ml#	85
59) Caprolactam	8.183	55	12865	1.969 ug/ml#	78
60) 1,2,4,5-Tetrachloroben...	8.677	216	58790	3.792 ug/ml	98
61) Biphenyl	8.977	154	135997	3.566 ug/ml	98
63) 3-Nitroaniline	9.501	138	27761	3.633 ug/ml	98
65) 2,4-Dinitrophenol	9.601	184	3578	1.950 ug/ml	90
66) Dibenzofuran	9.724	168	159534	3.535 ug/ml	95
67) 2,4-Dinitrotoluene	9.730	165	38802	4.106 ug/ml	98
68) 4-Nitrophenol	9.689	65	22363	3.254 ug/ml#	89
70) 2,3,4,6-Tetrachlorophenol	9.860	232	33659	3.738 ug/ml	97
71) Diethyl phthalate	9.995	149	137265	3.633 ug/ml	98

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240304nlvi\
Data File : 892048-2.D
Acq On : 5 Mar 2024 5:19 am
Operator : SV106:ljg
Sample : WG1892048-2,32,,gmr
Misc : WG1891342,WG1892048,ical20337
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Mar 05 13:21:50 2024
Quant Method : I:\8270\SV106\240304nlvi\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Mar 05 11:20:52 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv106\240304nlvi\ABN0304n.D
: 2 - I:\8270\sv106\240304nlvi\ADP0304n.D
: 3 - I:\8270\sv106\240304nlvi\AP90304n.D
Sub List : 8270TCL_REV2 - TCL/CT/MA

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
73)	4-Chlorophenyl phenyl ...	10.077	204	64416	3.785	ug/ml	91
74)	4-Nitroaniline	10.089	138	27650	3.585	ug/ml#	90
75)	4,6-Dinitro-o-cresol	10.124	198	20127	4.673	ug/ml#	60
76)	NDPA/DPA	10.195	169	106835	3.560	ug/ml	98
79)	4-Bromophenyl phenyl e...	10.548	248	37731	3.810	ug/ml#	88
86)	Atrazine	10.736	200	36296	3.944	ug/ml	93
90)	Carbazole	11.201	167	173749	3.451	ug/ml	99
91)	Di-n-butylphthalate	11.595	149	217588	3.374	ug/ml	99
96)	Butyl benzyl phthalate	13.065	149	90011	3.271	ug/ml	92
105)	3,3'-Dichlorobenzidine	13.577	252	61066	3.445	ug/ml#	94
107)	Bis(2-ethylhexyl)phtha...	13.701	149	128705	3.855	ug/ml#	94
108)	Di-n-octylphthalate	14.377	149	205292	3.645	ug/ml#	74

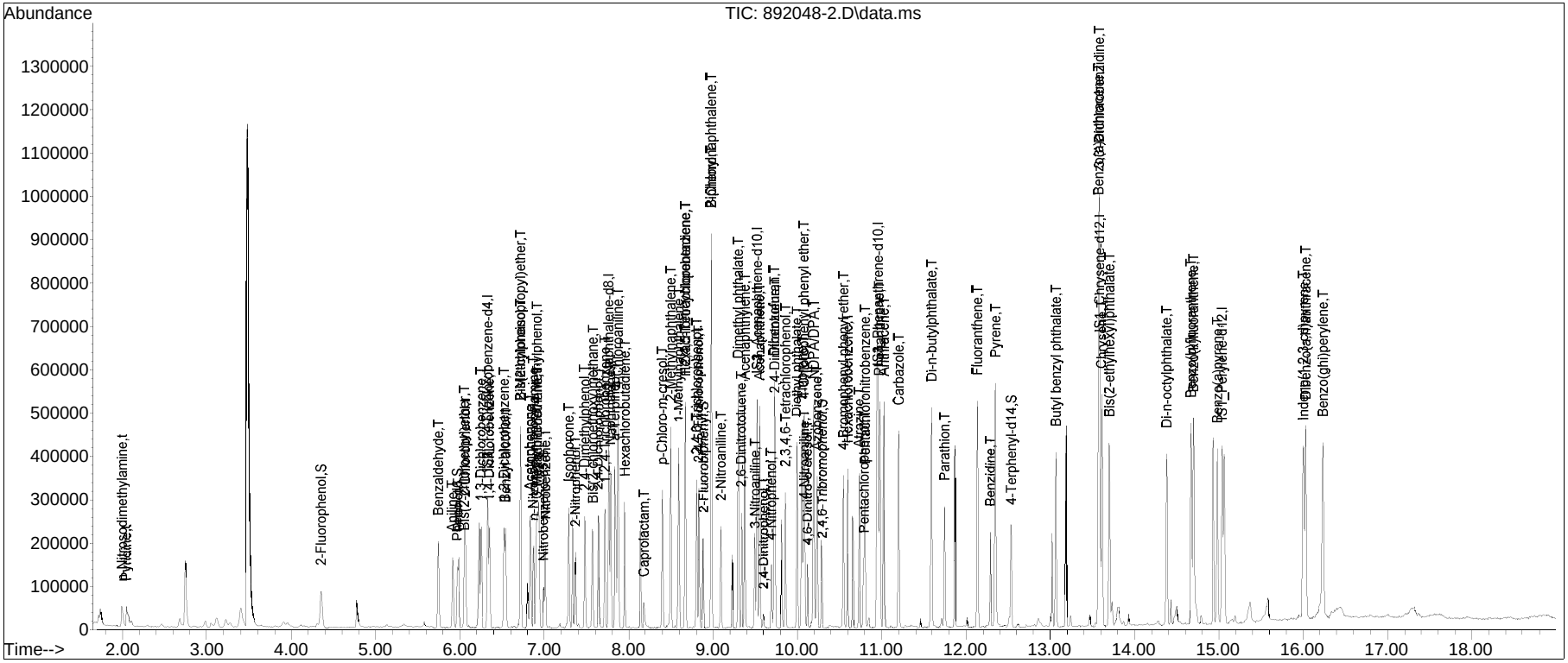
(#) = qualifier out of range (m) = manual integration (+) = signals summed

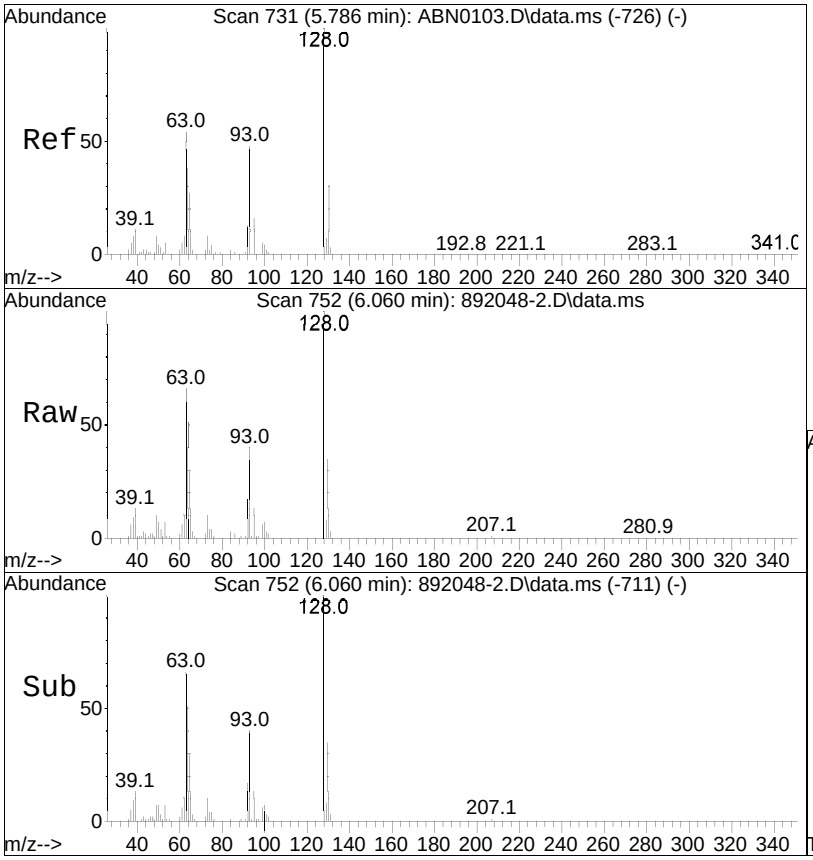
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240304nlvi\
Data File : 892048-2.D
Acq On : 5 Mar 2024 5:19 am
Operator : SV106:ljg
Sample : WG1892048-2,32,,gmr
Misc : WG1891342,WG1892048,ical20337
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Mar 05 13:21:50 2024
Quant Method : I:\8270\SV106\240304nlvi\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Mar 05 11:20:52 2024
Response via : Initial Calibration

Sub List : 8270TCL_REV2 - TCL/CT/MAnlvi\AP90304n.D•

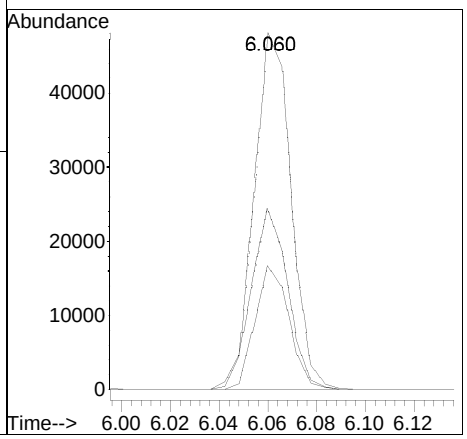


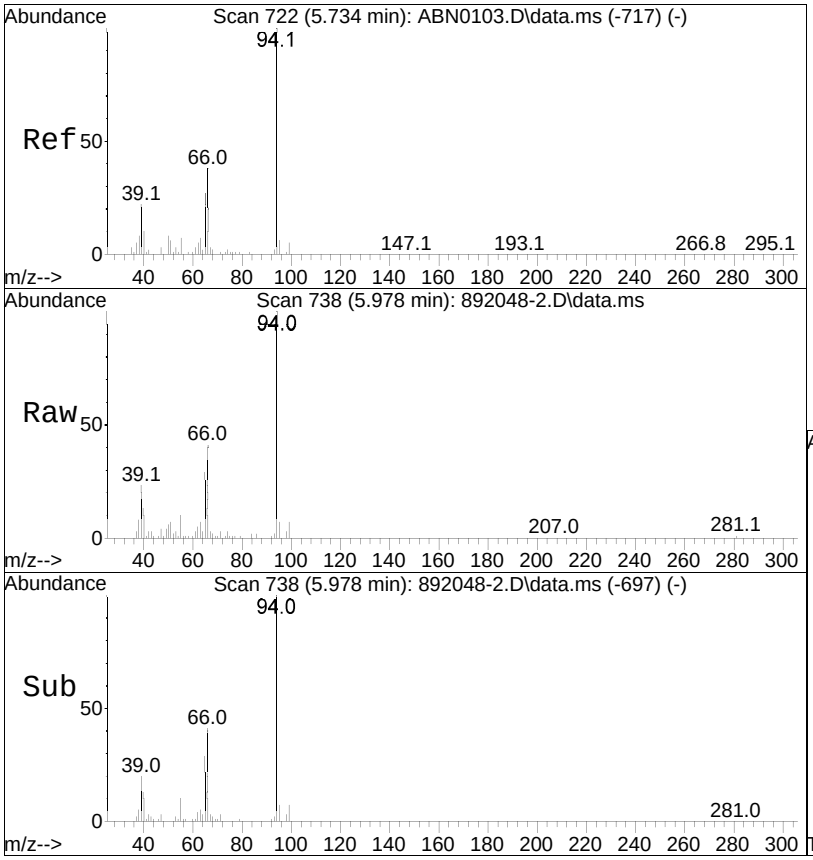


#6
2-Chlorophenol
Concen: 3.19 ug/ml
RT: 6.060 min Scan# 752
Delta R.T. -0.006 min
Lab File: 892048-2.D
Acq: 5 Mar 2024 5:19 am

Tgt Ion:128 Resp: 50153

Ion	Ratio	Lower	Upper
128	100		
64	51.1	45.1	67.7
130	32.3	26.2	39.4

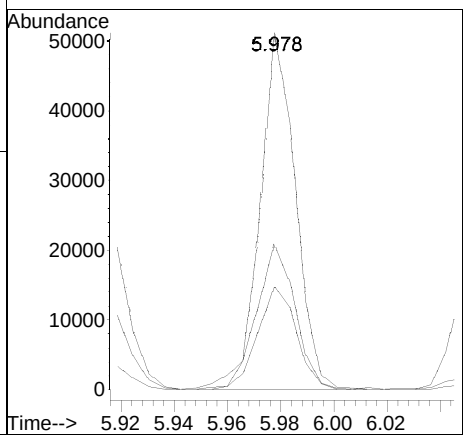


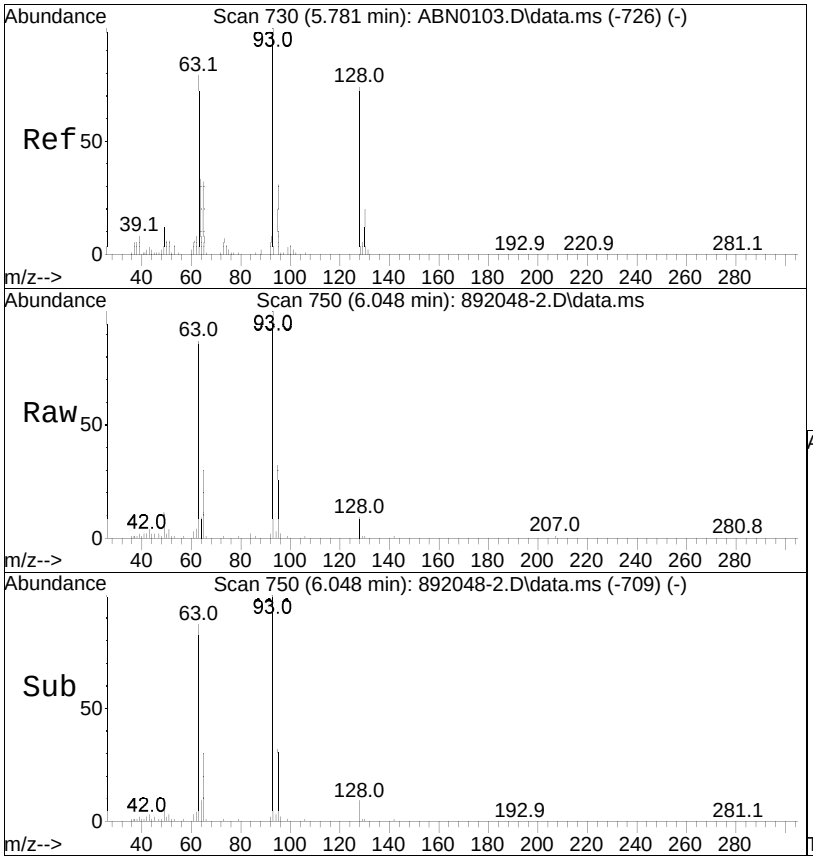


#8
Phenol
Concen: 2.48 ug/ml
RT: 5.978 min Scan# 738
Delta R.T. -0.006 min
Lab File: 892048-2.D
Acq: 5 Mar 2024 5:19 am

Tgt Ion: 94 Resp: 46442

Ion	Ratio	Lower	Upper
94	100		
65	32.4	26.0	39.0
66	47.0	33.8	50.8

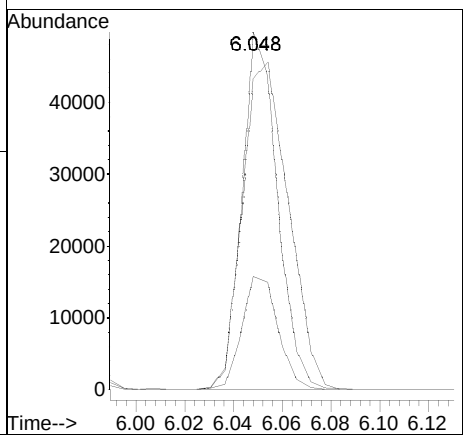


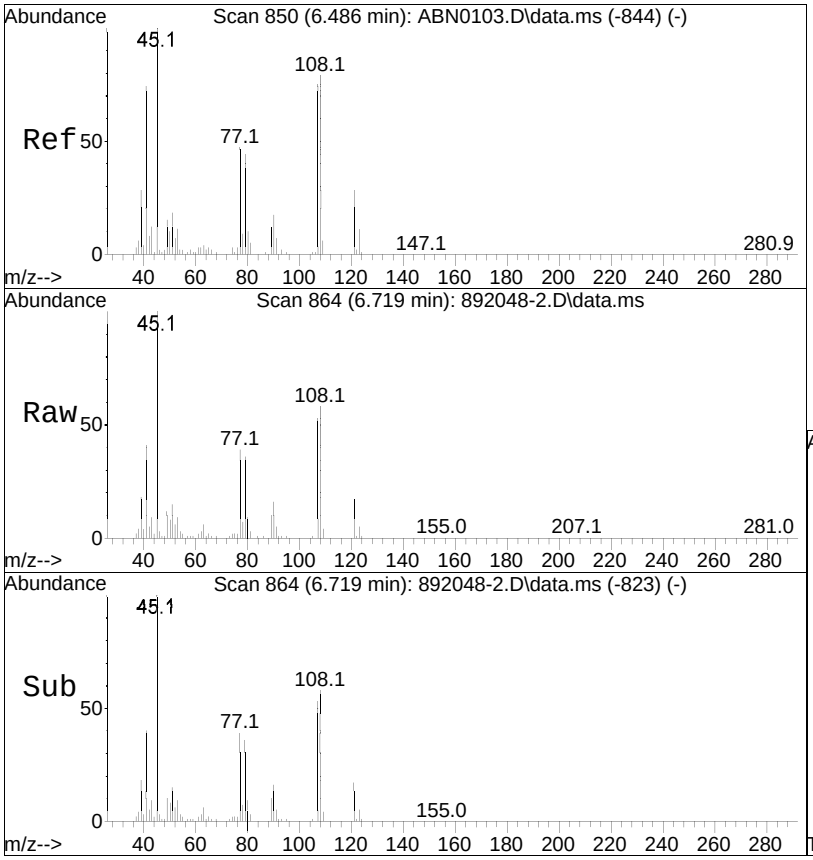


#9
Bis(2-chloroethyl)ether
Concen: 3.32 ug/ml
RT: 6.048 min Scan# 750
Delta R.T. -0.006 min
Lab File: 892048-2.D
Acq: 5 Mar 2024 5:19 am

Tgt Ion: 93 Resp: 50020

Ion	Ratio	Lower	Upper
93	100		
63	118.4	74.6	111.8#
95	32.4	25.9	38.9

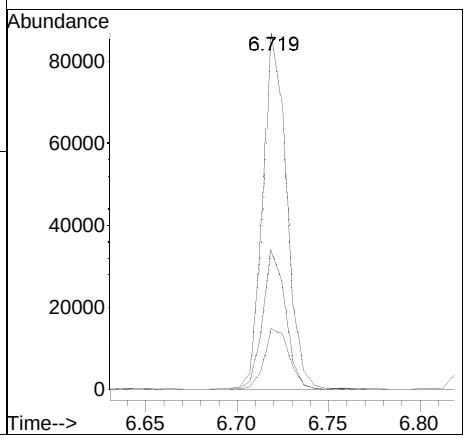


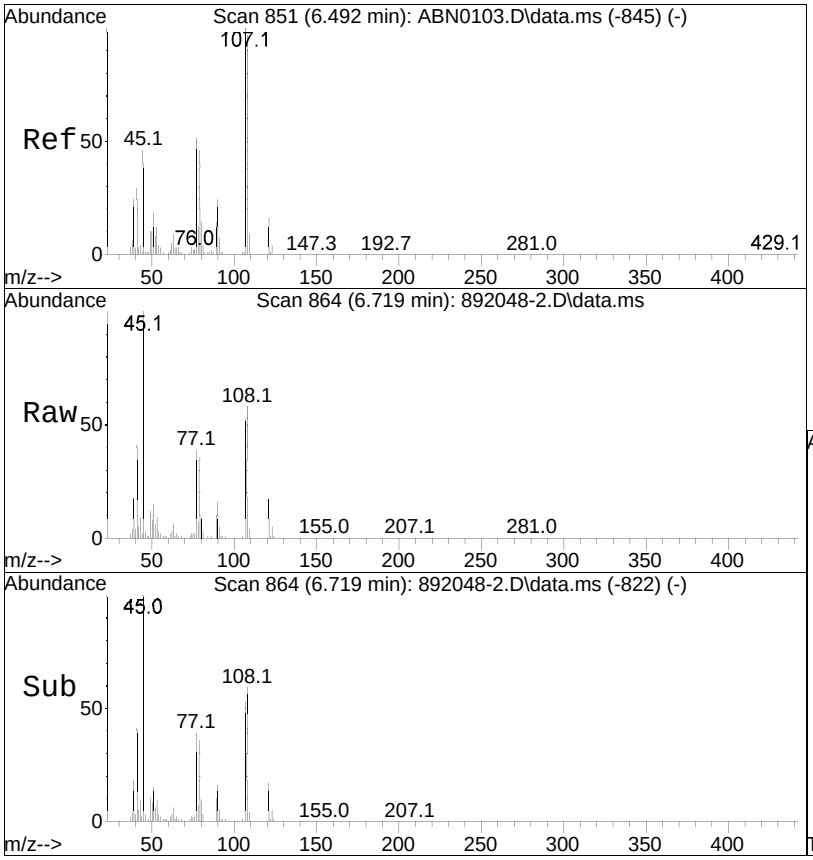


#14
Bis(2-chloroisopropyl)ether
Concen: 3.53 ug/ml
RT: 6.719 min Scan# 864
Delta R.T. -0.006 min
Lab File: 892048-2.D
Acq: 5 Mar 2024 5:19 am

Tgt Ion: 45 Resp: 78212

Ion	Ratio	Lower	Upper
45	100		
121	18.1	9.8	14.6#
77	37.9	6.1	9.1#

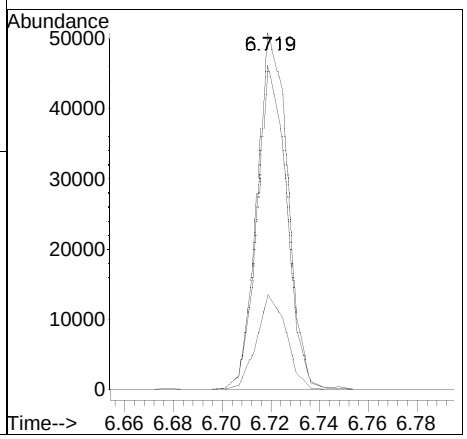


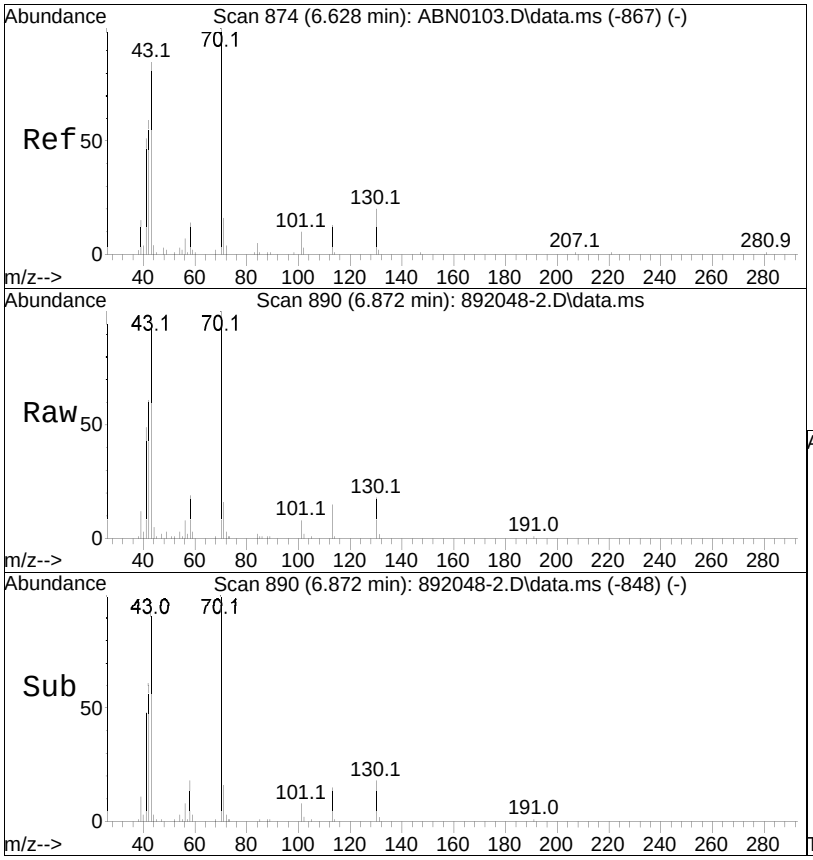


#15
2-Methylphenol
Concen: 3.15 ug/ml
RT: 6.719 min Scan# 864
Delta R.T. -0.000 min
Lab File: 892048-2.D
Acq: 5 Mar 2024 5:19 am

Tgt Ion:108 Resp: 44182

Ion	Ratio	Lower	Upper
108	100		
107	87.8	70.7	106.1
90	25.8	18.7	28.1

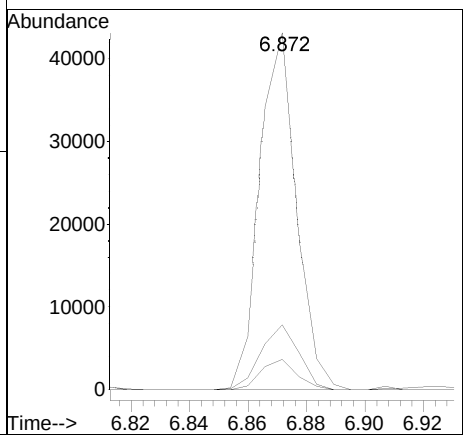


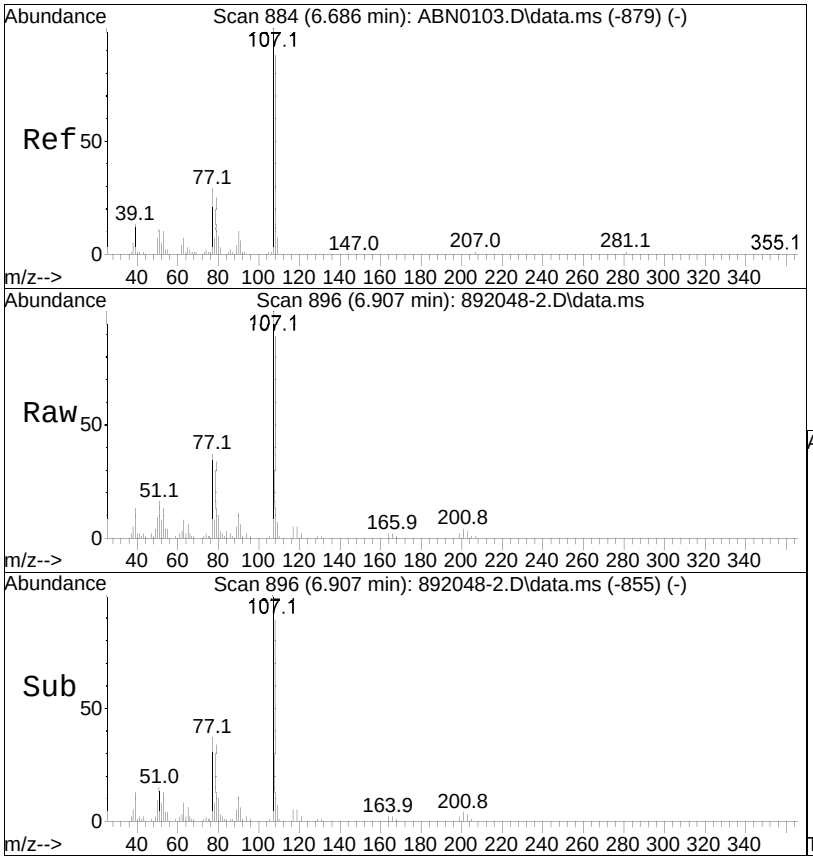


#17
n-Nitrosodi-n-propylamine
Concen: 3.30 ug/ml
RT: 6.872 min Scan# 890
Delta R.T. -0.000 min
Lab File: 892048-2.D
Acq: 5 Mar 2024 5:19 am

Tgt Ion: 70 Resp: 37541

Ion	Ratio	Lower	Upper
70	100		
130	18.7	18.2	27.4
101	8.3	7.8	11.8

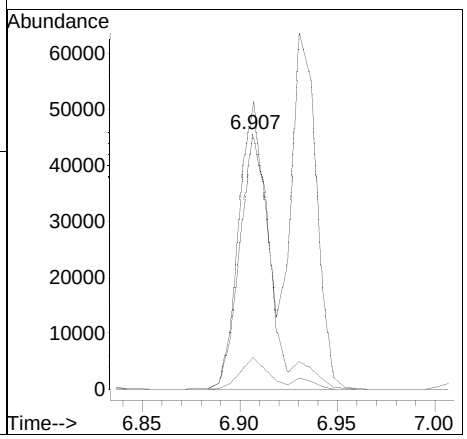


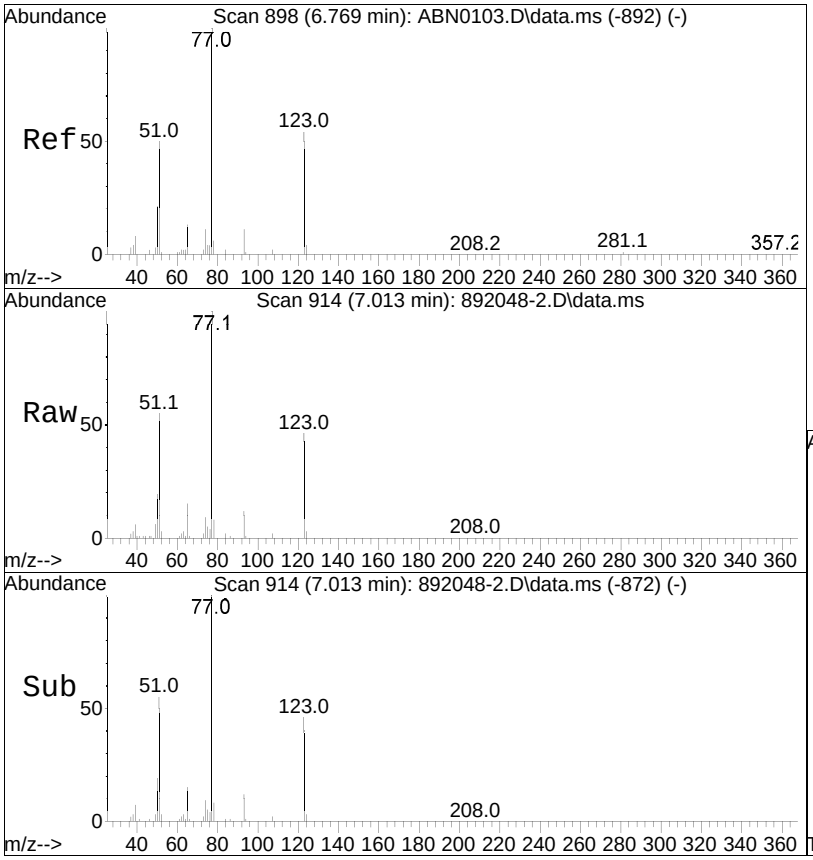


#18
3-Methylphenol/4-Methylphenol
Concen: 3.52 ug/ml
RT: 6.907 min Scan# 896
Delta R.T. -0.006 min
Lab File: 892048-2.D
Acq: 5 Mar 2024 5:19 am

Tgt Ion:108 Resp: 51722

Ion	Ratio	Lower	Upper
108	100		
107	100.7	88.6	132.8
90	11.2	8.8	13.2

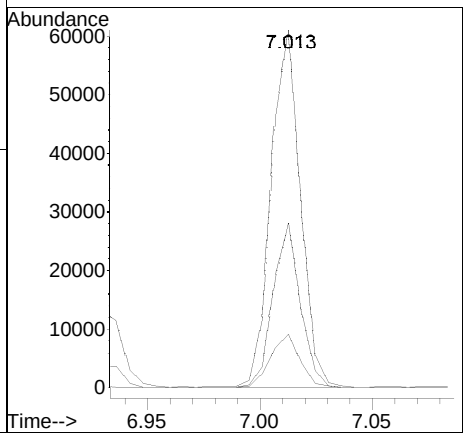


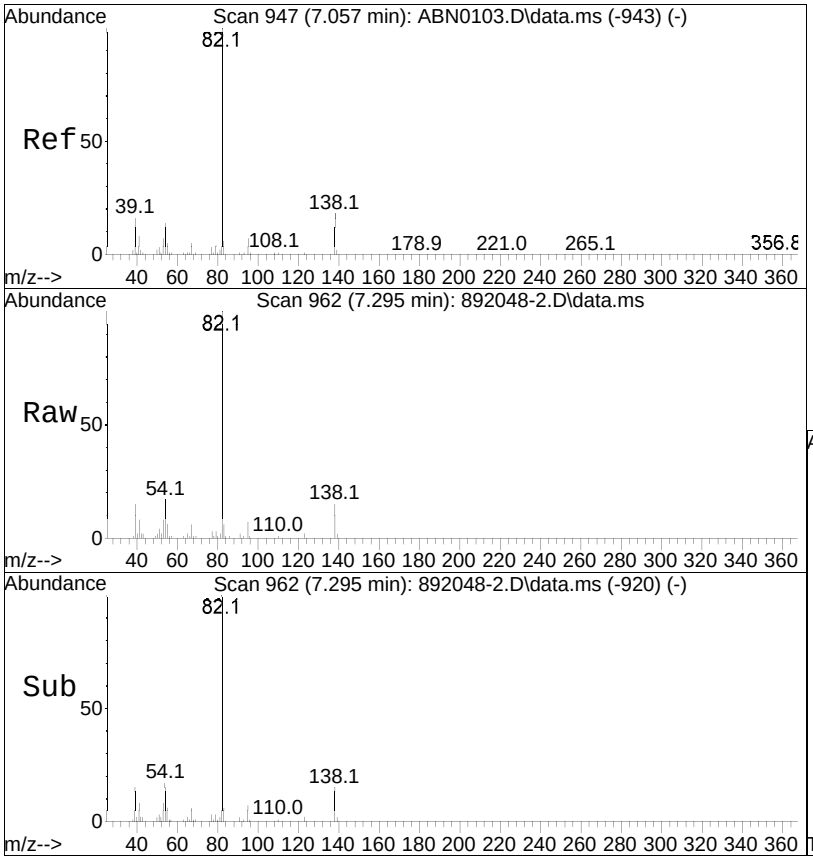


#20
Nitrobenzene
Concen: 3.45 ug/ml
RT: 7.013 min Scan# 914
Delta R.T. -0.000 min
Lab File: 892048-2.D
Acq: 5 Mar 2024 5:19 am

Tgt Ion: 77 Resp: 54989

Ion	Ratio	Lower	Upper
77	100		
123	42.8	36.3	54.5
65	15.0	11.6	17.4

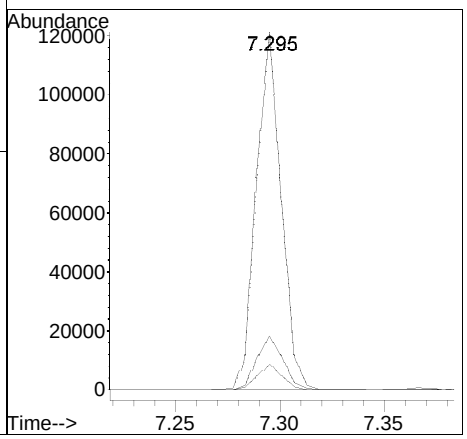


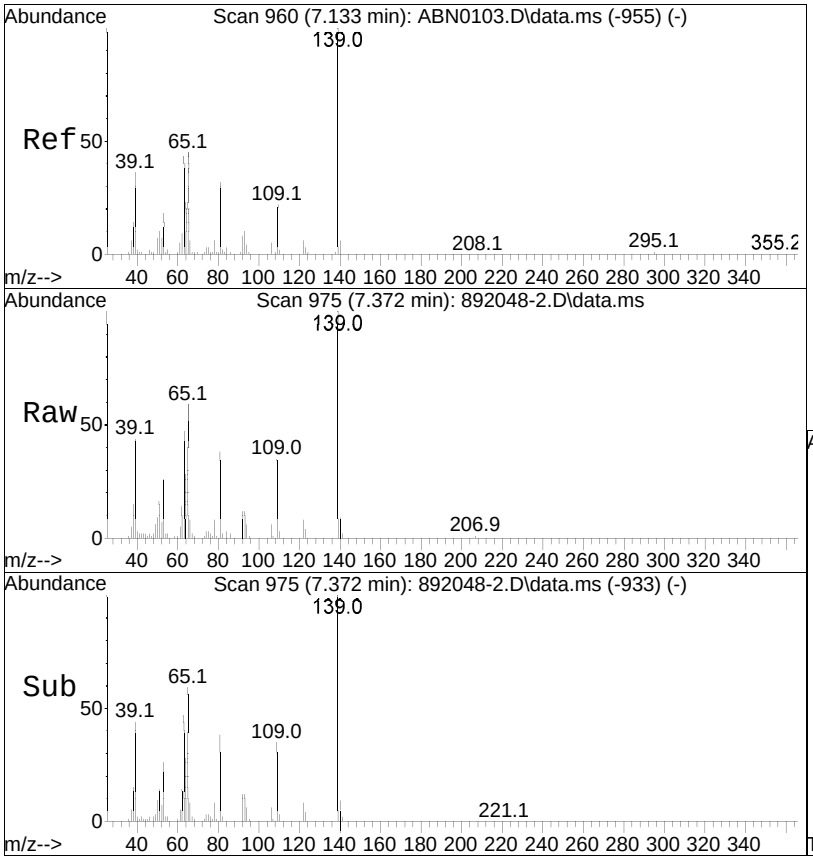


#21
Isophorone
Concen: 3.23 ug/ml
RT: 7.295 min Scan# 962
Delta R.T. -0.000 min
Lab File: 892048-2.D
Acq: 5 Mar 2024 5:19 am

Tgt Ion: 82 Resp: 98725

Ion	Ratio	Lower	Upper
82	100		
138	15.9	14.7	22.1
95	7.2	5.2	7.8

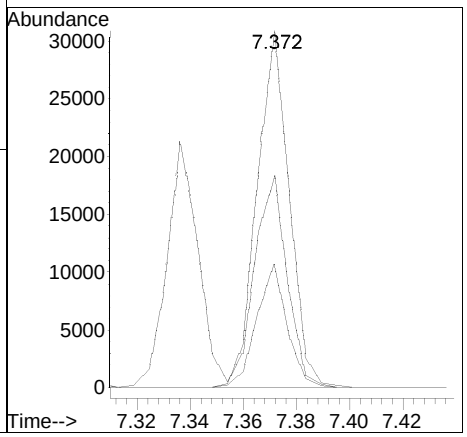


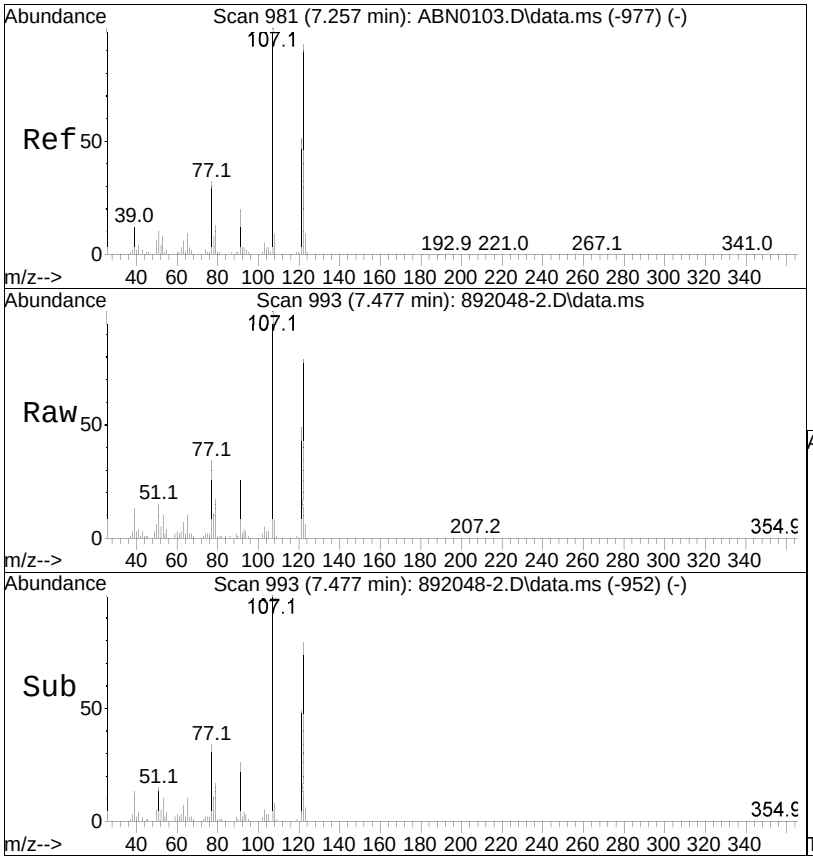


#22
2-Nitrophenol
Concen: 4.05 ug/ml
RT: 7.372 min Scan# 975
Delta R.T. -0.000 min
Lab File: 892048-2.D
Acq: 5 Mar 2024 5:19 am

Tgt Ion:139 Resp: 25876

Ion	Ratio	Lower	Upper
139	100		
109	32.8	19.4	29.0#
65	59.9	46.1	69.1

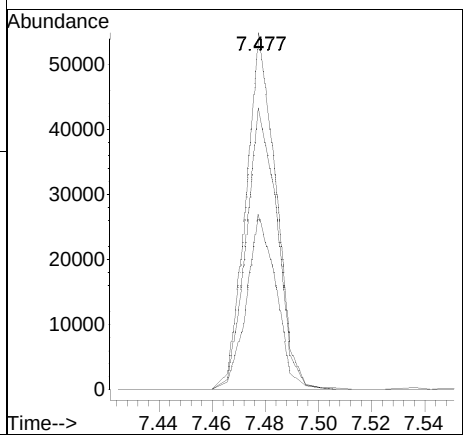


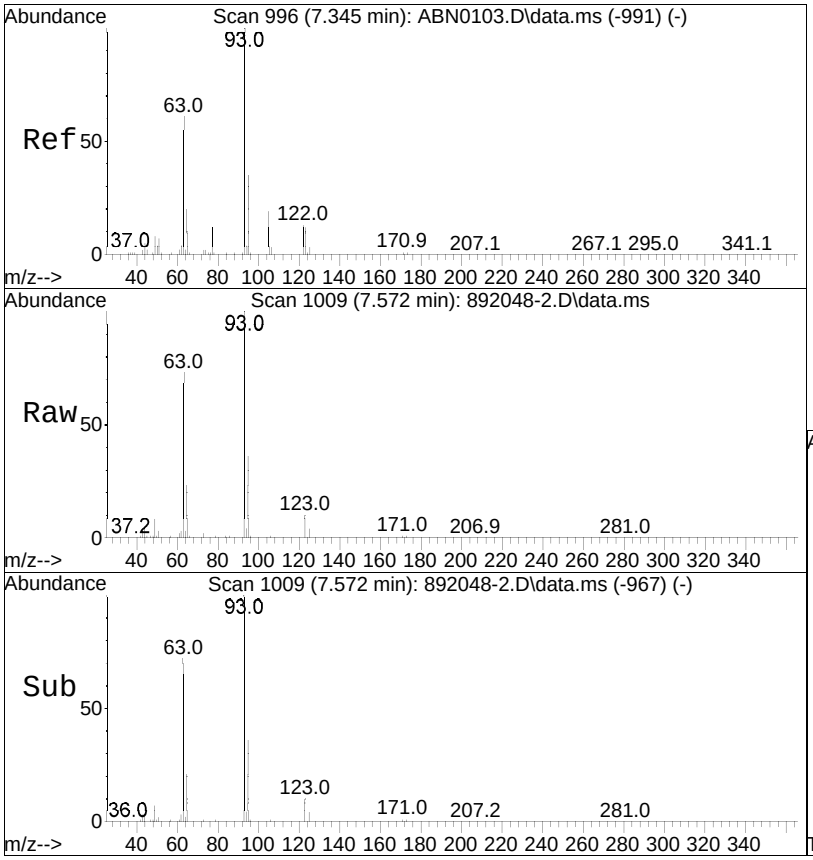


#23
2,4-Dimethylphenol
Concen: 2.72 ug/ml
RT: 7.477 min Scan# 993
Delta R.T. -0.006 min
Lab File: 892048-2.D
Acq: 5 Mar 2024 5:19 am

Tgt Ion:107 Resp: 42944

Ion	Ratio	Lower	Upper
107	100		
121	48.4	40.0	60.0
122	81.1	70.2	105.4

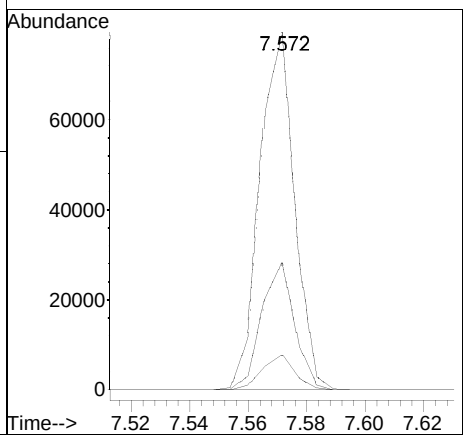


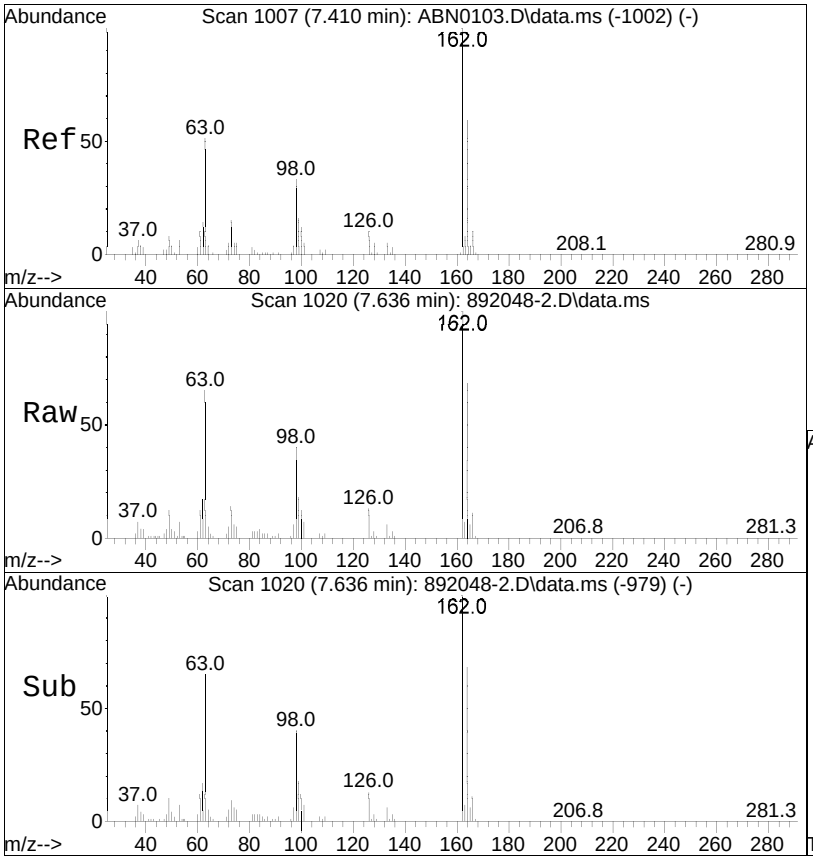


#24
Bis(2-chloroethoxy)methane
Concen: 3.41 ug/ml
RT: 7.572 min Scan# 1009
Delta R.T. -0.000 min
Lab File: 892048-2.D
Acq: 5 Mar 2024 5:19 am

Tgt Ion: 93 Resp: 65182

Ion	Ratio	Lower	Upper
93	100		
95	33.9	25.8	38.8
123	9.3	10.1	15.1#

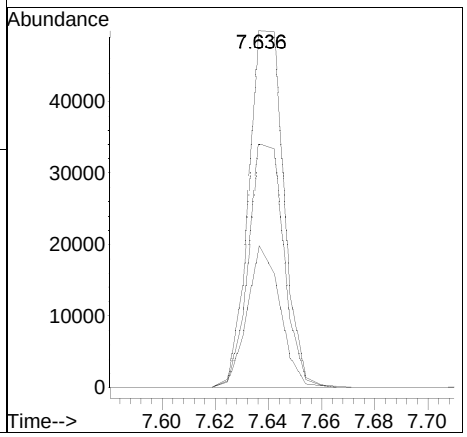


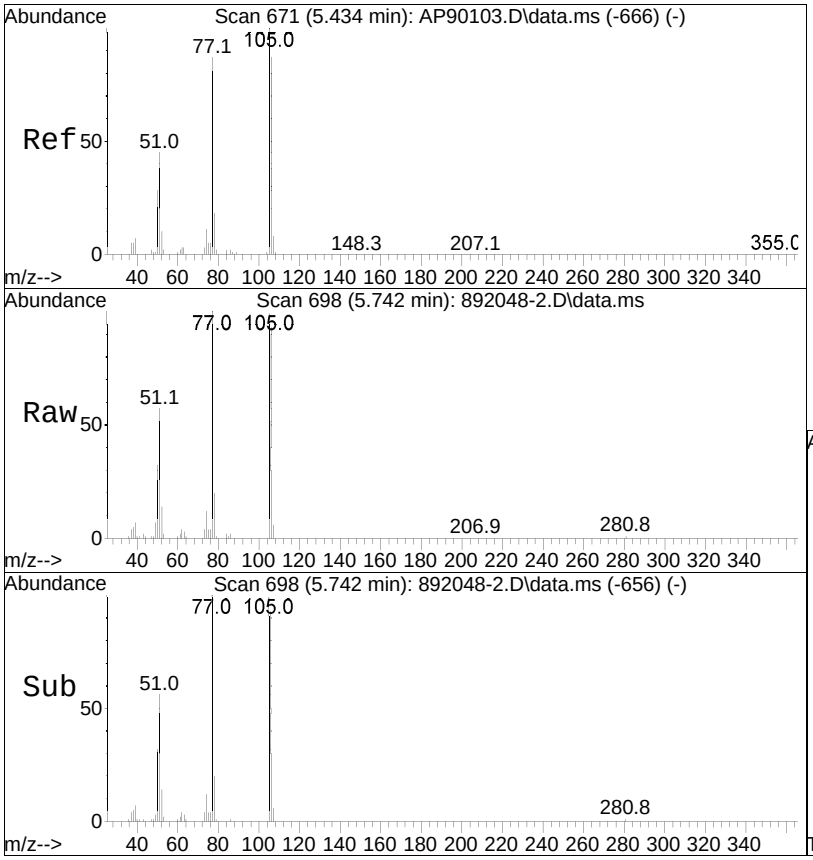


#25
2,4-Dichlorophenol
Concen: 3.46 ug/ml
RT: 7.636 min Scan# 1020
Delta R.T. -0.006 min
Lab File: 892048-2.D
Acq: 5 Mar 2024 5:19 am

Tgt Ion:162 Resp: 45889

Ion	Ratio	Lower	Upper
162	100		
164	68.5	51.0	76.4
98	37.5	32.2	48.2

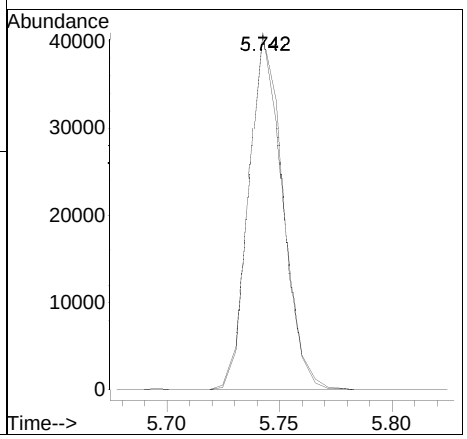


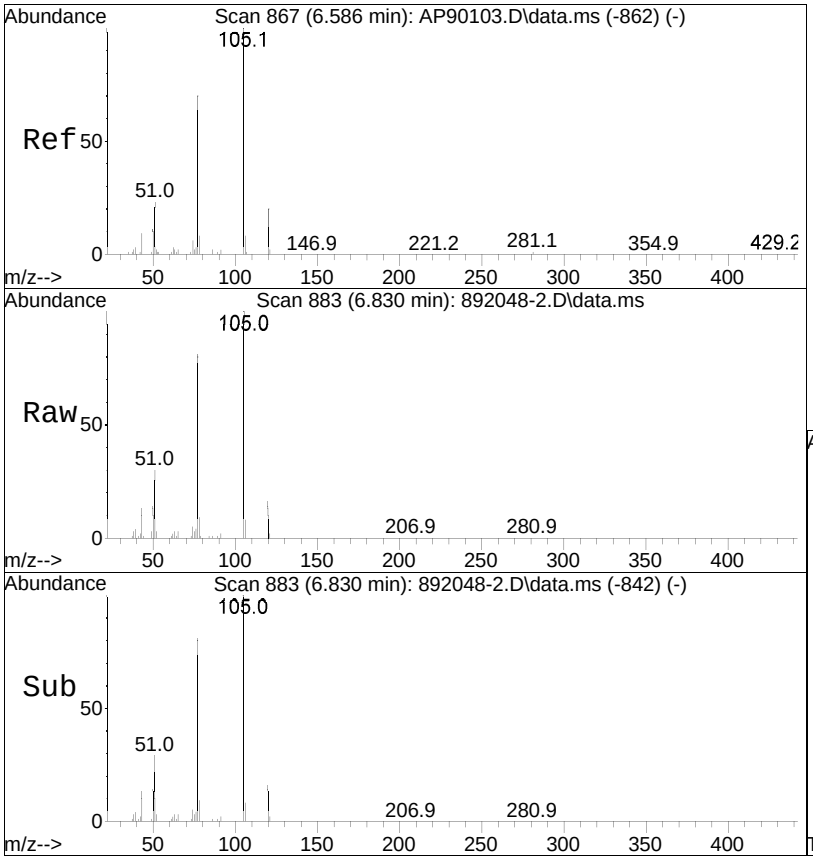


#28
Benzaldehyde
Concen: 3.74 ug/ml
RT: 5.742 min Scan# 698
Delta R.T. -0.000 min
Lab File: 892048-2.D
Acq: 5 Mar 2024 5:19 am

Tgt Ion:105 Resp: 42742

Ion	Ratio	Lower	Upper
105	100		
77	99.9	82.2	123.4

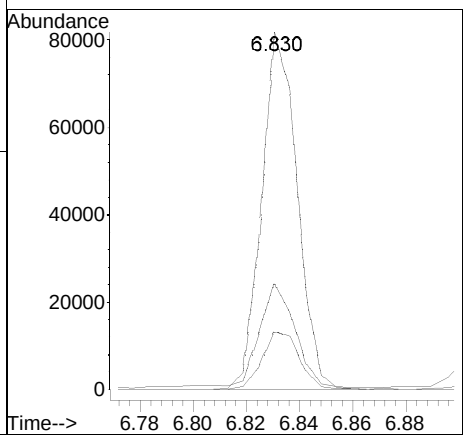


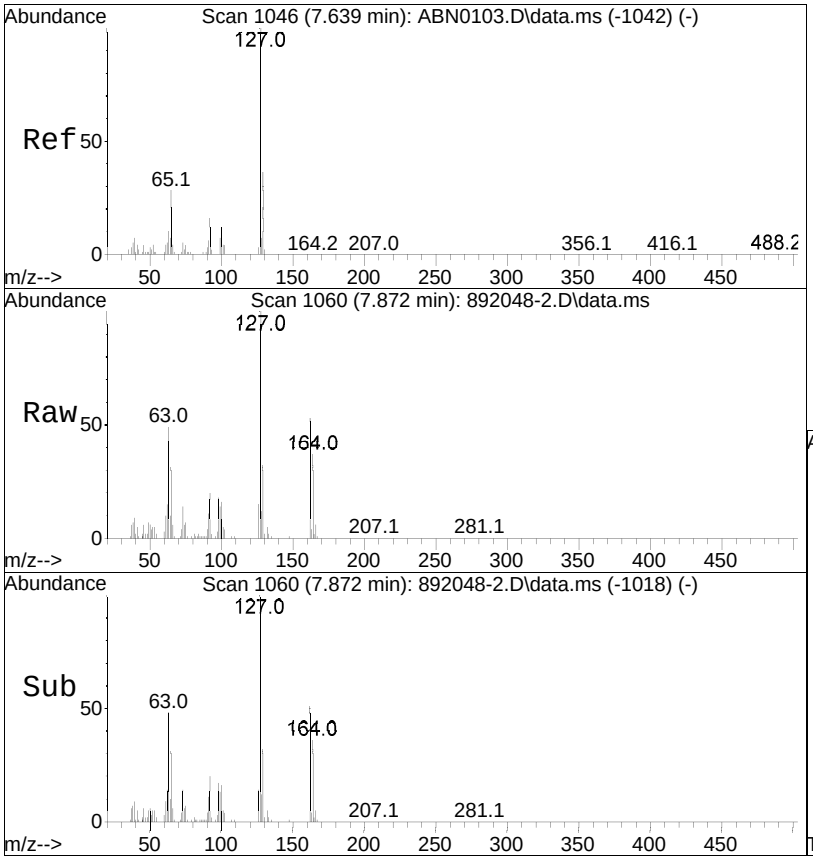


#29
Acetophenone
Concen: 3.04 ug/ml
RT: 6.830 min Scan# 883
Delta R.T. -0.006 min
Lab File: 892048-2.D
Acq: 5 Mar 2024 5:19 am

Tgt Ion:105 Resp: 74756

Ion	Ratio	Lower	Upper
105	100		
120	17.1	20.5	30.7#
51	30.9	34.9	52.3#

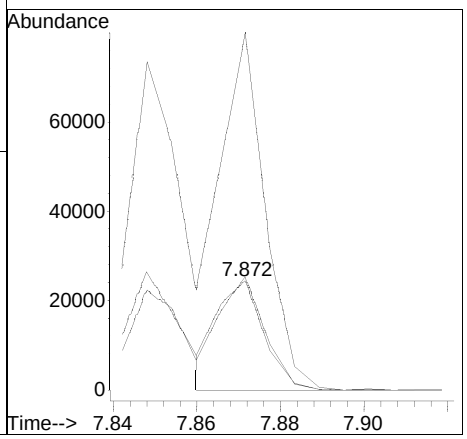


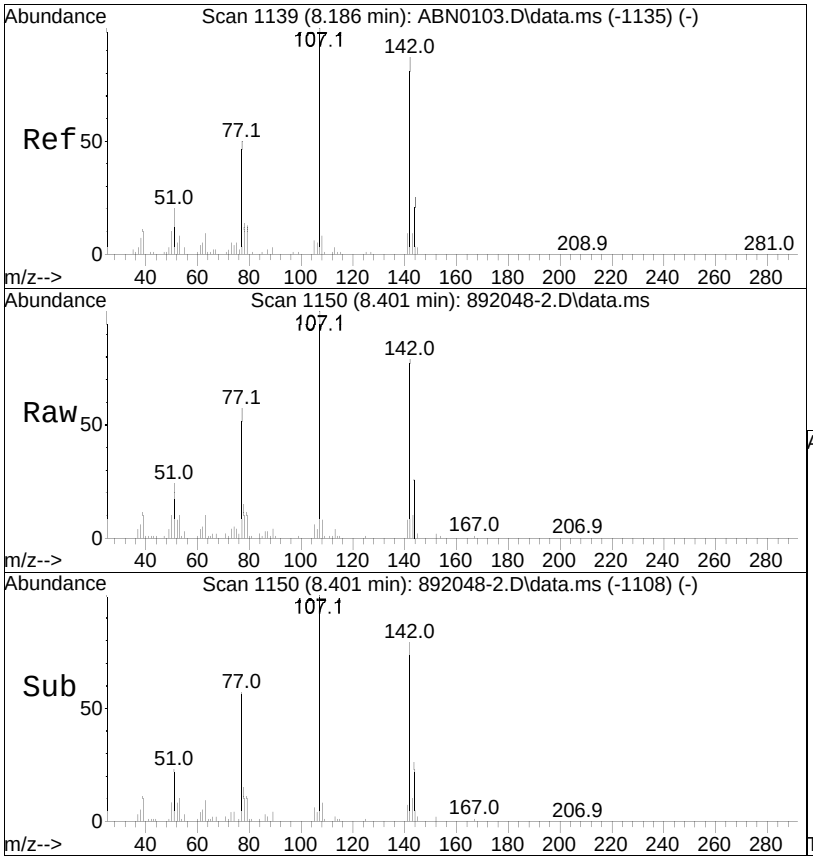


#37
4-Chloroaniline
Concen: 3.24 ug/ml
RT: 7.872 min Scan# 1060
Delta R.T. -0.000 min
Lab File: 892048-2.D
Acq: 5 Mar 2024 5:19 am

Tgt Ion: 65 Resp: 19060

Ion	Ratio	Lower	Upper
65	100		
127	311.7	237.6	356.4
129	101.4	76.3	114.5

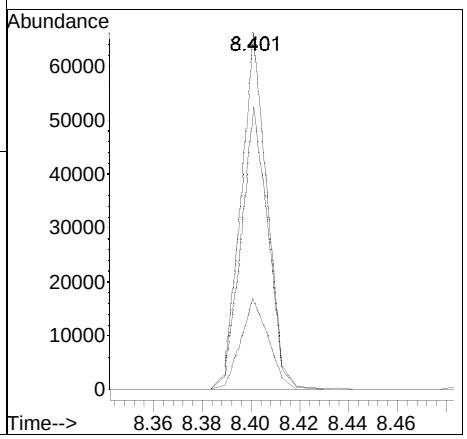


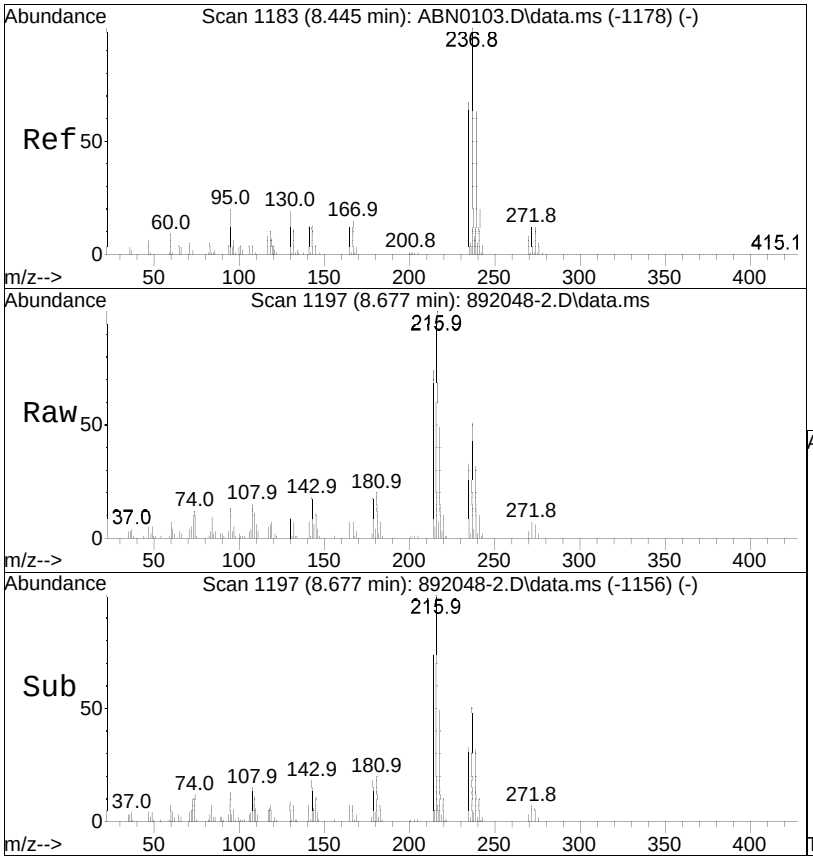


#39
p-Chloro-m-cresol
Concen: 3.76 ug/ml
RT: 8.401 min Scan# 1150
Delta R.T. -0.000 min
Lab File: 892048-2.D
Acq: 5 Mar 2024 5:19 am

Tgt Ion:107 Resp: 48864

Ion	Ratio	Lower	Upper
107	100		
144	27.1	20.9	31.3
142	81.5	66.1	99.1

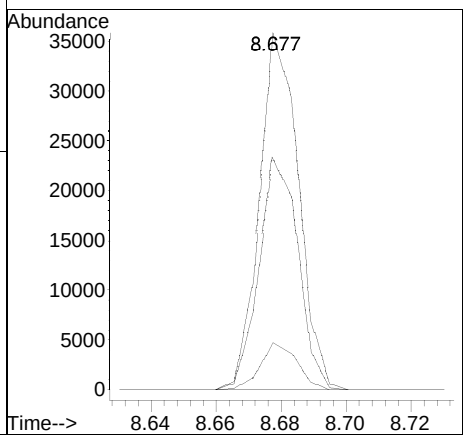


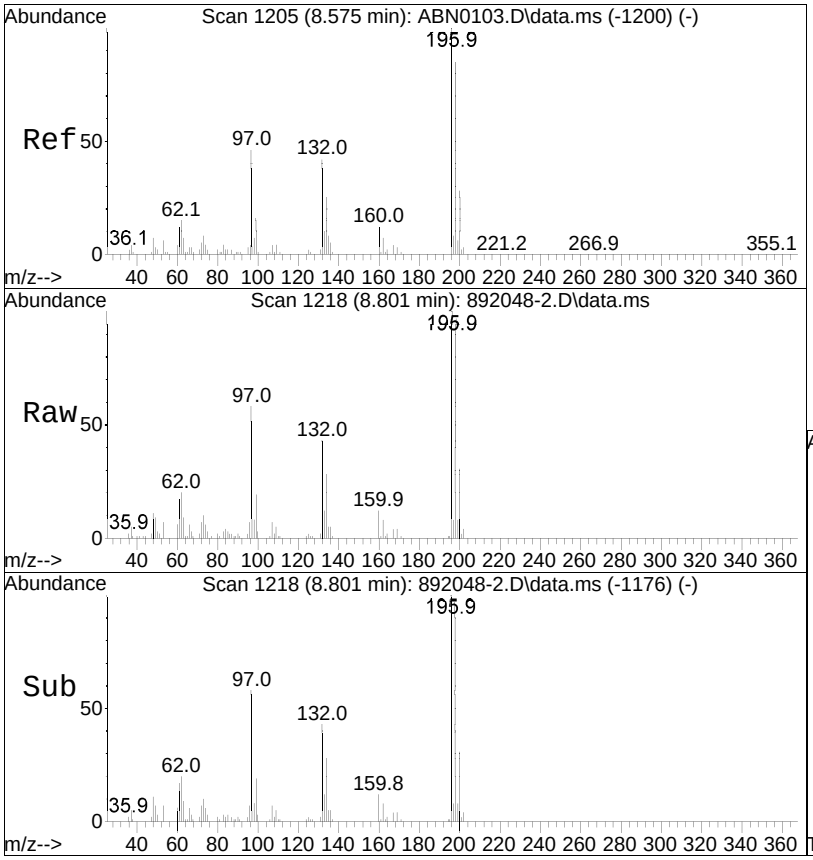


#42
Hexachlorocyclopentadiene
Concen: 3.05 ug/ml
RT: 8.677 min Scan# 1197
Delta R.T. -0.006 min
Lab File: 892048-2.D
Acq: 5 Mar 2024 5:19 am

Tgt Ion:237 Resp: 29811

Ion	Ratio	Lower	Upper
237	100		
235	65.4	49.7	74.5
272	12.5	9.8	14.6

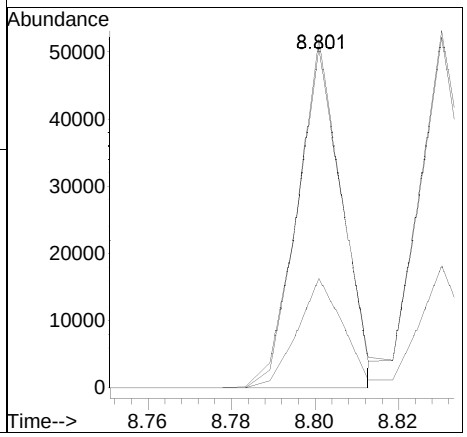


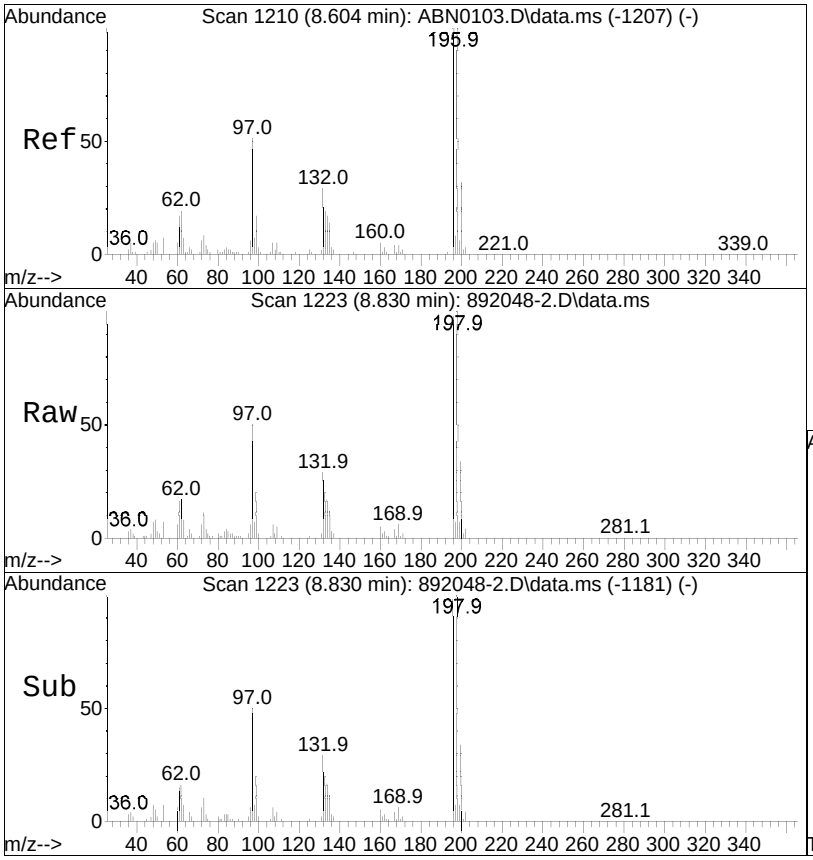


#43
2,4,6-Trichlorophenol
Concen: 4.16 ug/ml
RT: 8.801 min Scan# 1218
Delta R.T. -0.000 min
Lab File: 892048-2.D
Acq: 5 Mar 2024 5:19 am

Tgt Ion:196 Resp: 38696

Ion	Ratio	Lower	Upper
196	100		
198	101.5	77.5	116.3
200	32.1	23.8	35.6

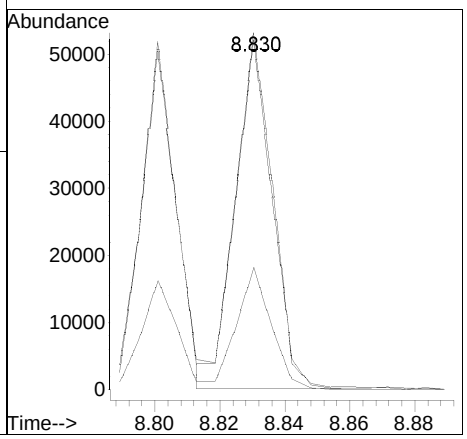


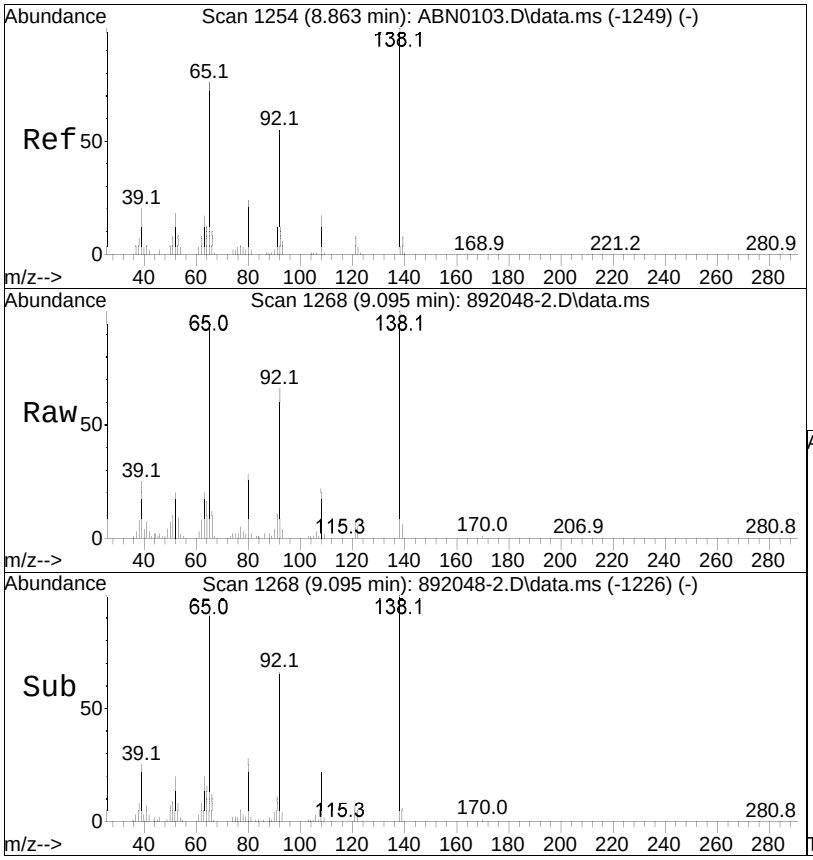


#44
2,4,5-Trichlorophenol
Concen: 4.08 ug/ml
RT: 8.830 min Scan# 1223
Delta R.T. -0.000 min
Lab File: 892048-2.D
Acq: 5 Mar 2024 5:19 am

Tgt Ion:196 Resp: 40768

Ion	Ratio	Lower	Upper
196	100		
200	33.6	25.4	38.0
198	101.4	78.0	117.0

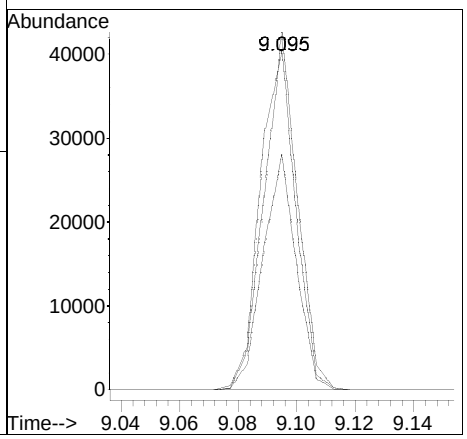


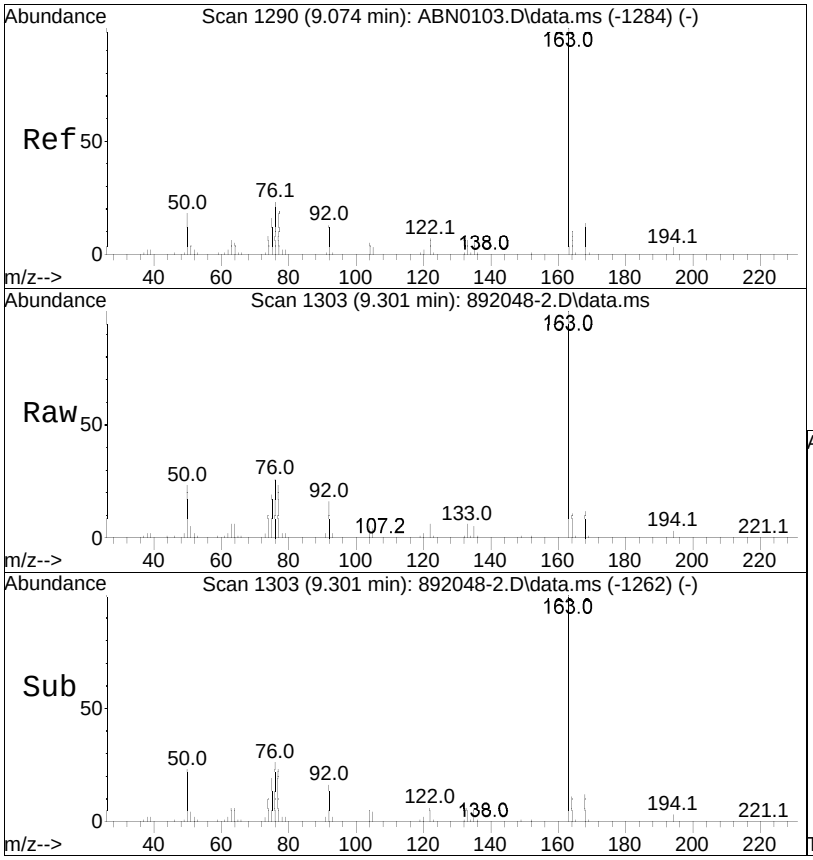


#47
2-Nitroaniline
Concen: 4.14 ug/ml
RT: 9.095 min Scan# 1268
Delta R.T. -0.000 min
Lab File: 892048-2.D
Acq: 5 Mar 2024 5:19 am

Tgt Ion:138 Resp: 33420

Ion	Ratio	Lower	Upper
138	100		
92	65.9	53.5	80.3
65	101.2	86.3	129.5

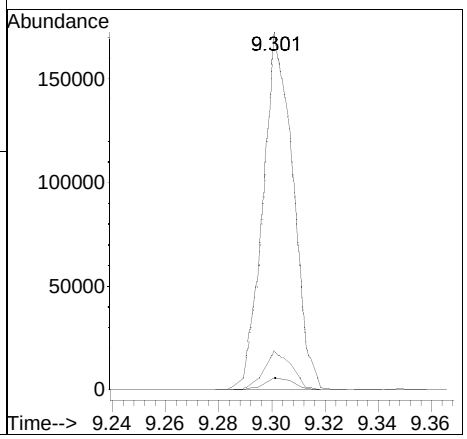


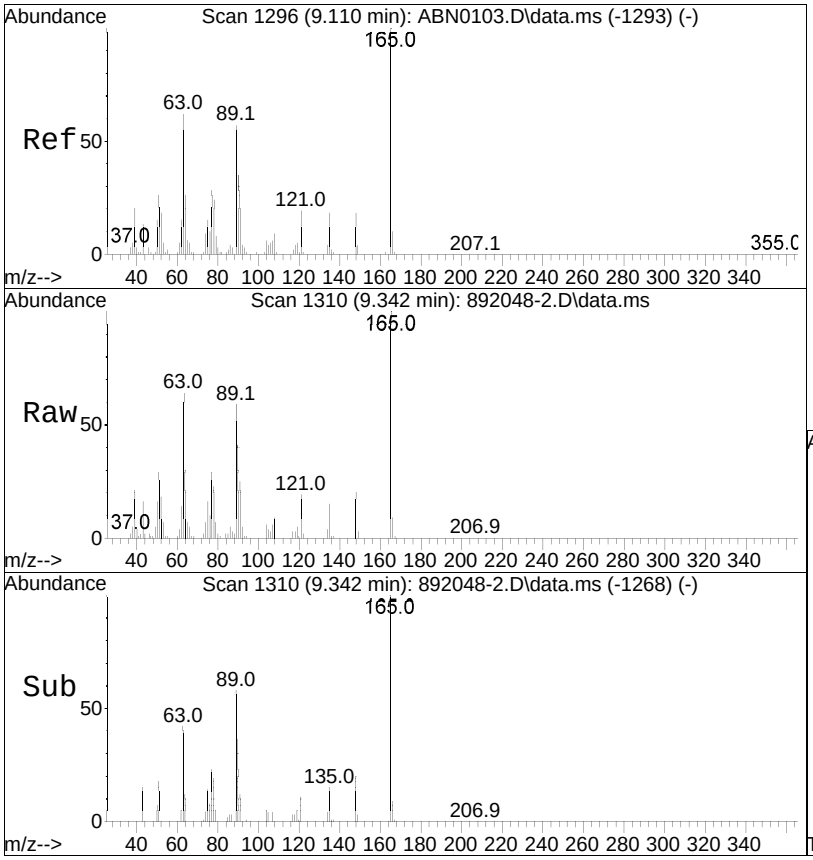


#50
Dimethyl phthalate
Concen: 3.82 ug/ml
RT: 9.301 min Scan# 1303
Delta R.T. -0.006 min
Lab File: 892048-2.D
Acq: 5 Mar 2024 5:19 am

Tgt Ion:163 Resp: 134025

Ion	Ratio	Lower	Upper
163	100		
194	3.4	3.5	5.3#
164	10.2	7.9	11.9

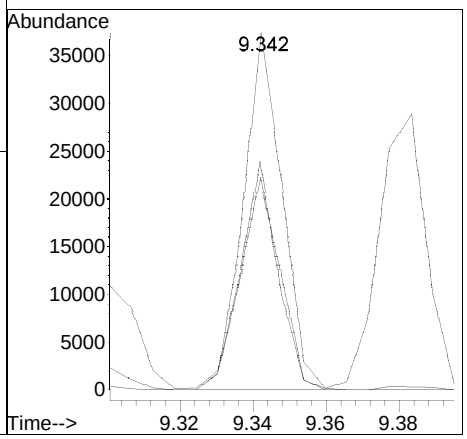


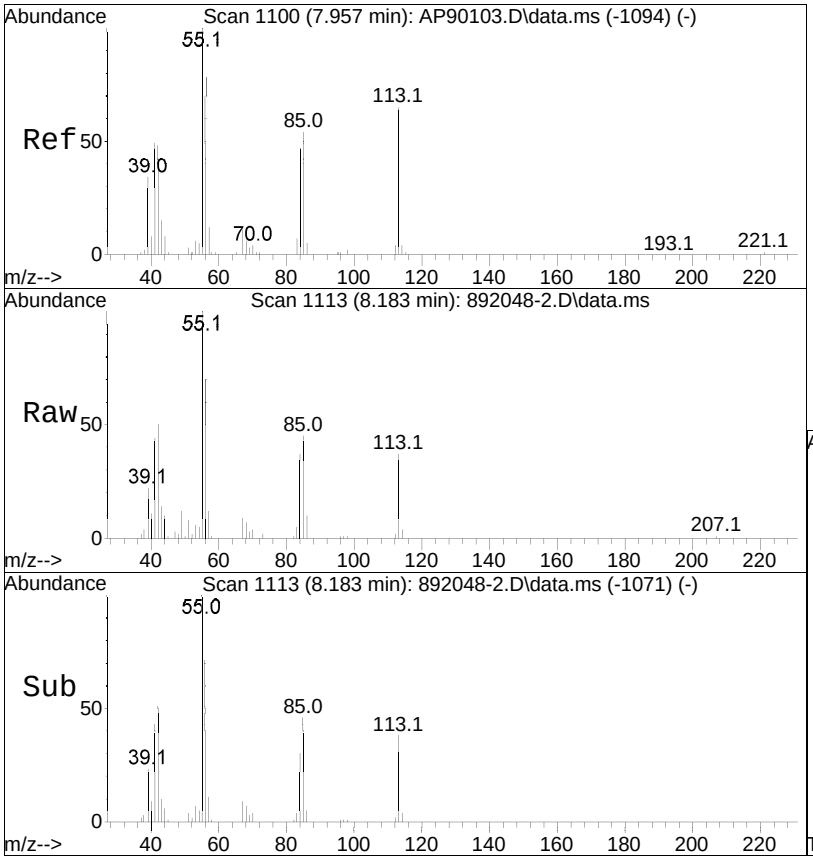


#52
2,6-Dinitrotoluene
Concen: 4.17 ug/ml
RT: 9.342 min Scan# 1310
Delta R.T. -0.000 min
Lab File: 892048-2.D
Acq: 5 Mar 2024 5:19 am

Tgt Ion:165 Resp: 27626

Ion	Ratio	Lower	Upper
165	100		
89	60.9	54.2	81.2
63	61.9	64.2	96.2#

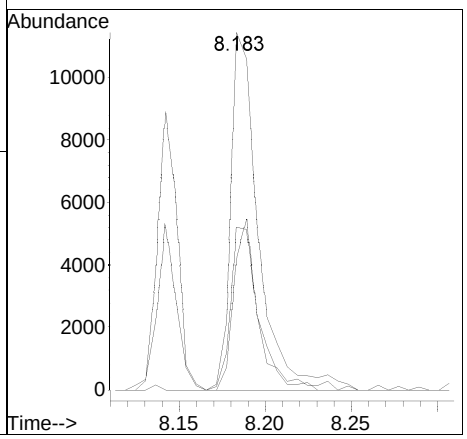


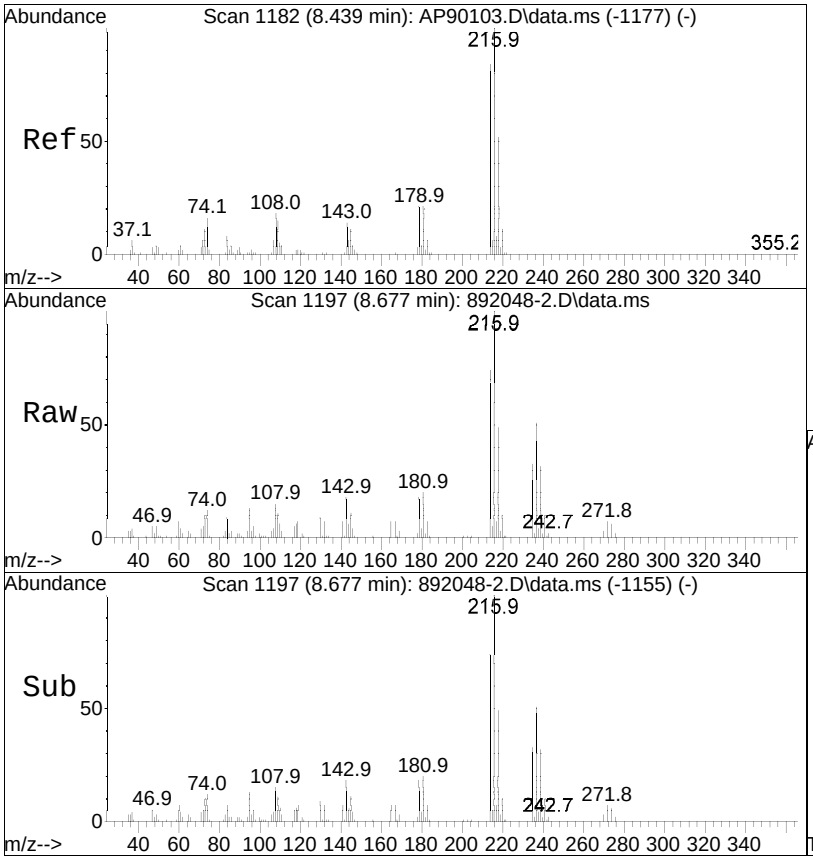


#59
Caprolactam
Concen: 1.97 ug/ml
RT: 8.183 min Scan# 1113
Delta R.T. -0.000 min
Lab File: 892048-2.D
Acq: 5 Mar 2024 5:19 am

Tgt Ion: 55 Resp: 12865

Ion	Ratio	Lower	Upper
55	100		
85	46.0	19.8	29.6#
113	42.2	29.6	44.4

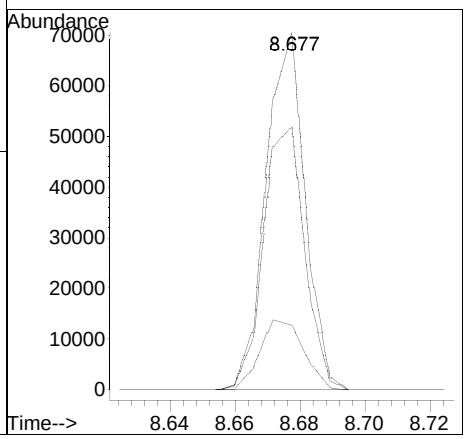


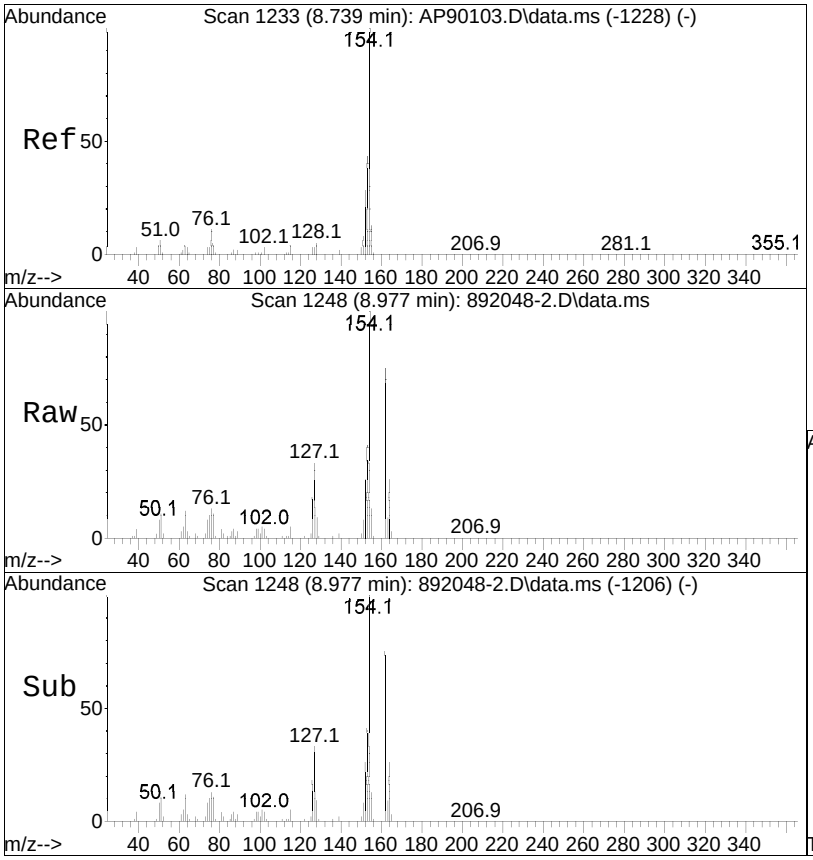


#60
1,2,4,5-Tetrachlorobenzene
Concen: 3.79 ug/ml
RT: 8.677 min Scan# 1197
Delta R.T. -0.000 min
Lab File: 892048-2.D
Acq: 5 Mar 2024 5:19 am

Tgt Ion:216 Resp: 58790

Ion	Ratio	Lower	Upper
216	100		
214	77.7	63.7	95.5
179	22.0	19.0	28.6

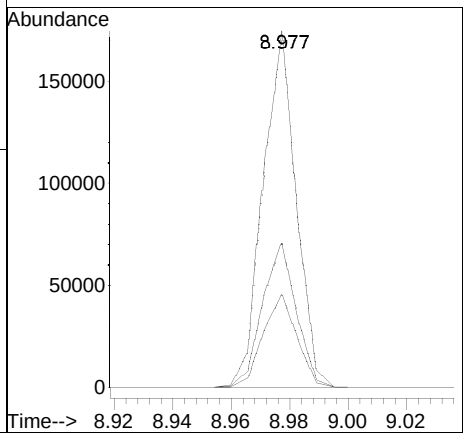


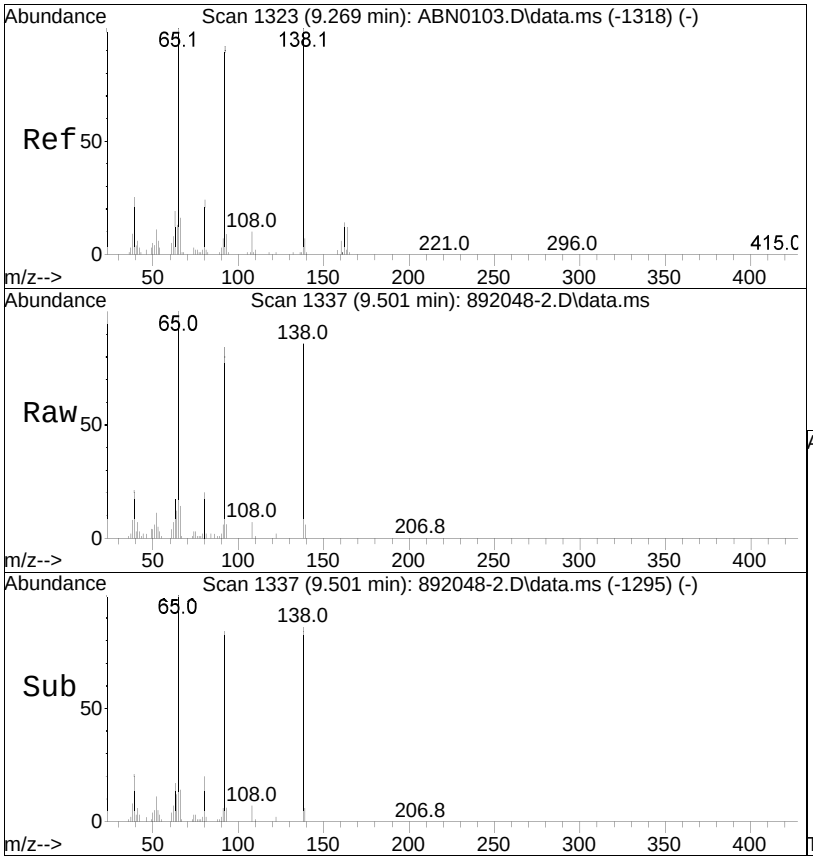


#61
Biphenyl
Concen: 3.57 ug/ml
RT: 8.977 min Scan# 1248
Delta R.T. -0.000 min
Lab File: 892048-2.D
Acq: 5 Mar 2024 5:19 am

Tgt Ion:154 Resp: 135997

Ion	Ratio	Lower	Upper
154	100		
153	41.8	32.3	48.5
152	26.9	22.5	33.7

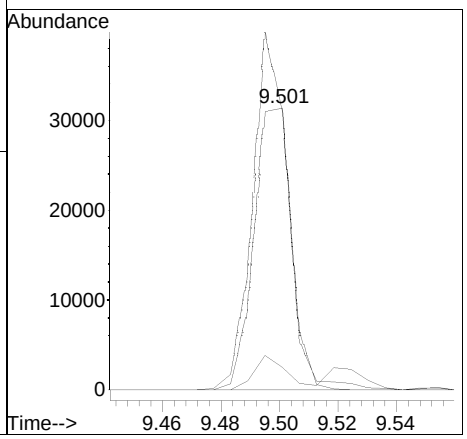


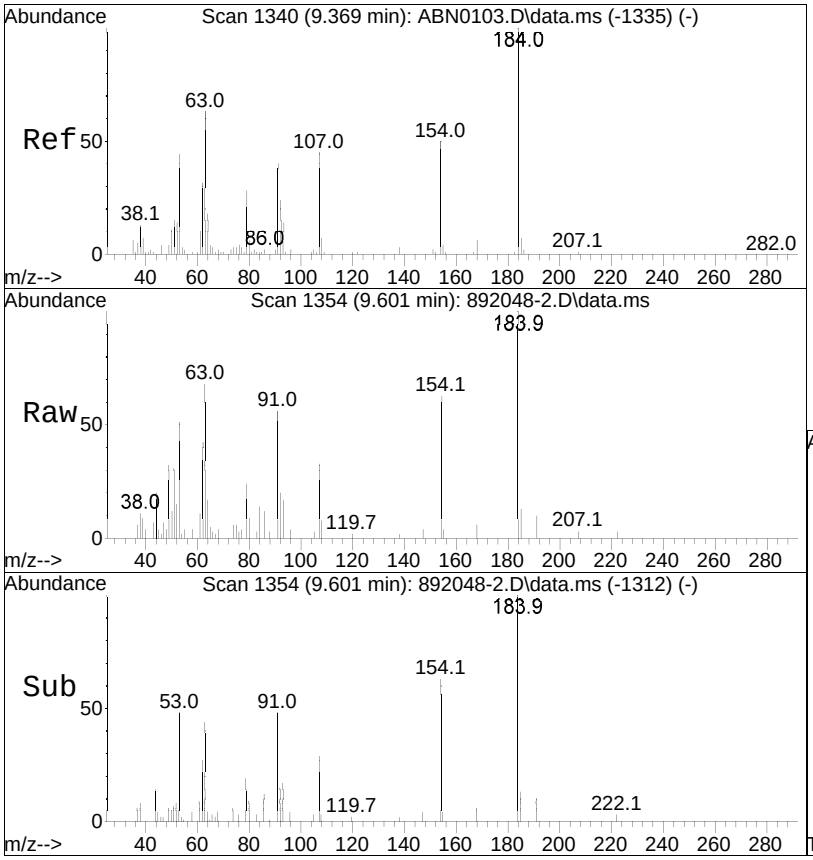


#63
3-Nitroaniline
Concen: 3.63 ug/ml
RT: 9.501 min Scan# 1337
Delta R.T. -0.000 min
Lab File: 892048-2.D
Acq: 5 Mar 2024 5:19 am

Tgt Ion:138 Resp: 27761

Ion	Ratio	Lower	Upper
138	100		
92	118.4	93.4	140.2
108	10.8	9.5	14.3

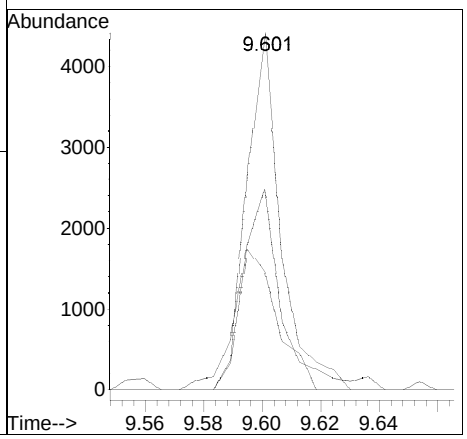


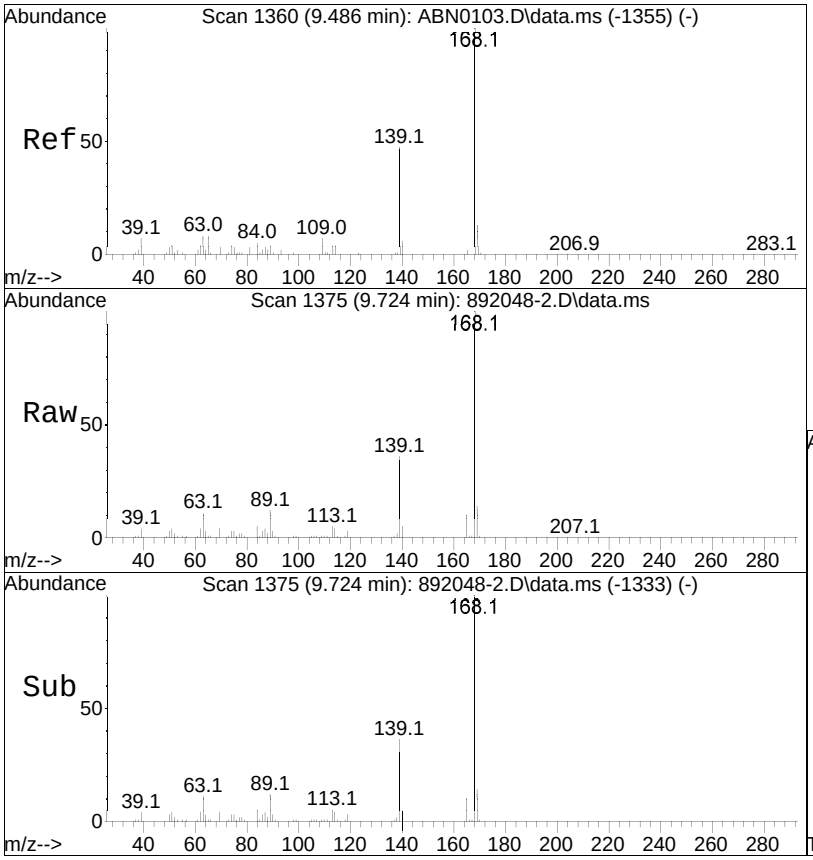


#65
2,4-Dinitrophenol
Concen: 1.95 ug/ml
RT: 9.601 min Scan# 1354
Delta R.T. -0.000 min
Lab File: 892048-2.D
Acq: 5 Mar 2024 5:19 am

Tgt Ion:184 Resp: 3578

Ion	Ratio	Lower	Upper
184	100		
107	45.3	37.7	56.5
91	69.1	46.3	69.5

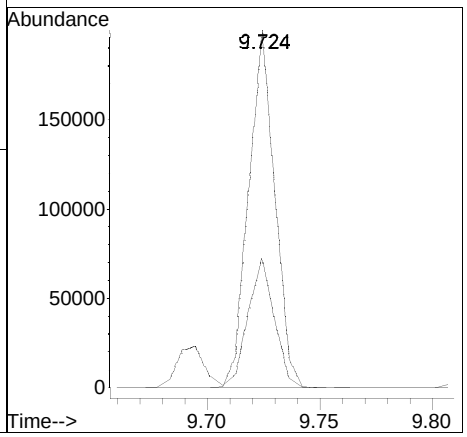


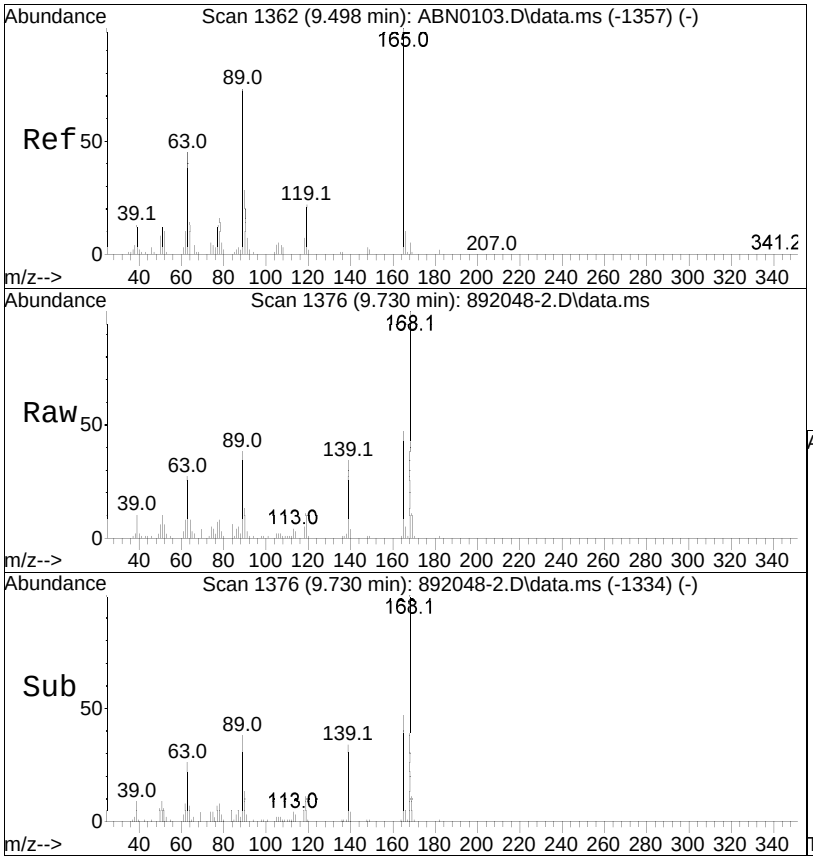


#66
Dibenzofuran
Concen: 3.53 ug/ml
RT: 9.724 min Scan# 1375
Delta R.T. -0.000 min
Lab File: 892048-2.D
Acq: 5 Mar 2024 5:19 am

Tgt Ion:168 Resp: 159534

Ion	Ratio	Lower	Upper
168	100		
139	36.5	31.4	47.2

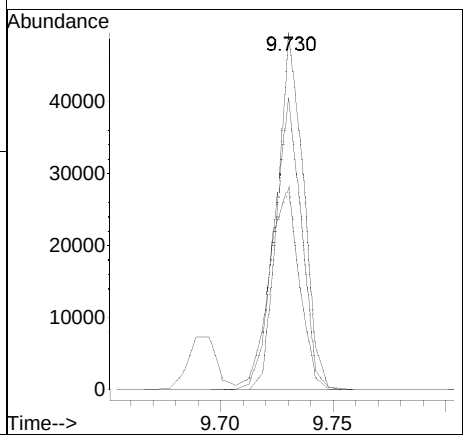


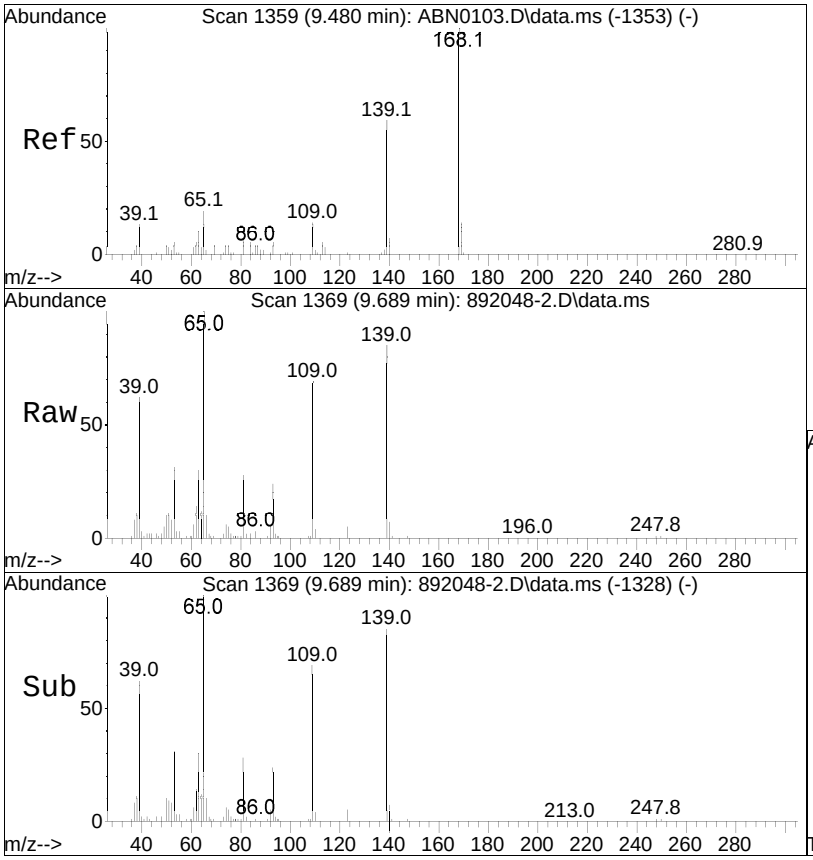


#67
2,4-Dinitrotoluene
Concen: 4.11 ug/ml
RT: 9.730 min Scan# 1376
Delta R.T. -0.000 min
Lab File: 892048-2.D
Acq: 5 Mar 2024 5:19 am

Tgt Ion:165 Resp: 38802

Ion	Ratio	Lower	Upper
165	100		
89	88.1	72.0	108.0
63	67.6	52.7	79.1

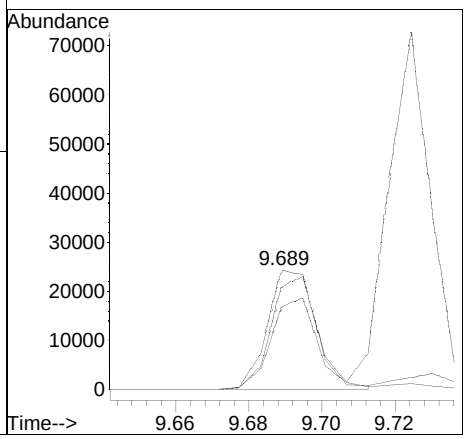


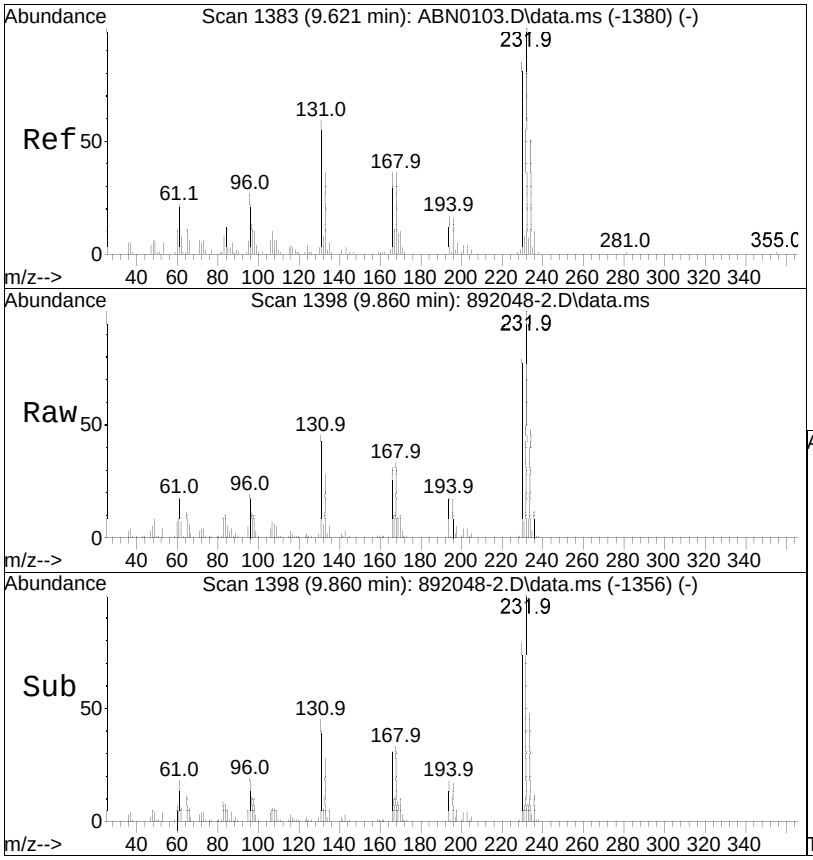


#68
4-Nitrophenol
Concen: 3.25 ug/ml
RT: 9.689 min Scan# 1369
Delta R.T. -0.006 min
Lab File: 892048-2.D
Acq: 5 Mar 2024 5:19 am

Tgt Ion: 65 Resp: 22363

Ion	Ratio	Lower	Upper
65	100		
109	73.7	47.4	71.2#
139	90.3	76.6	115.0

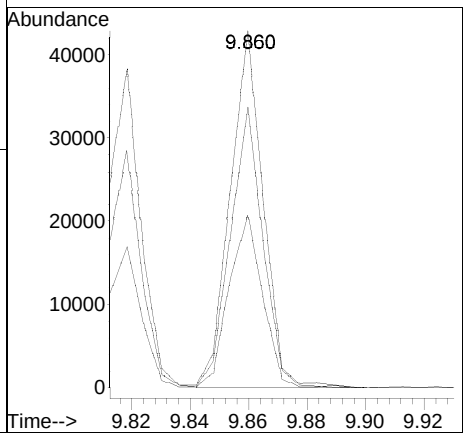


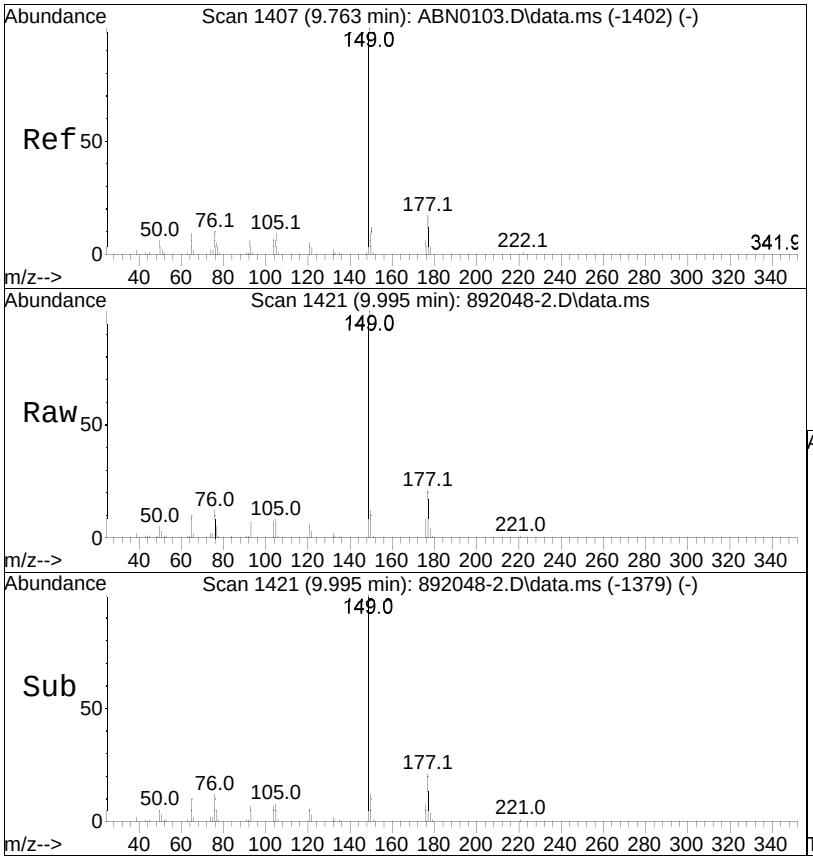


#70
2,3,4,6-Tetrachlorophenol
Concen: 3.74 ug/ml
RT: 9.860 min Scan# 1398
Delta R.T. -0.000 min
Lab File: 892048-2.D
Acq: 5 Mar 2024 5:19 am

Tgt Ion:232 Resp: 33659

Ion	Ratio	Lower	Upper
232	100		
230	77.4	61.8	92.8
234	49.9	36.2	54.2

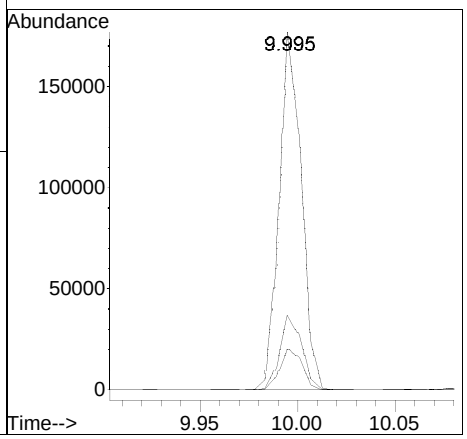


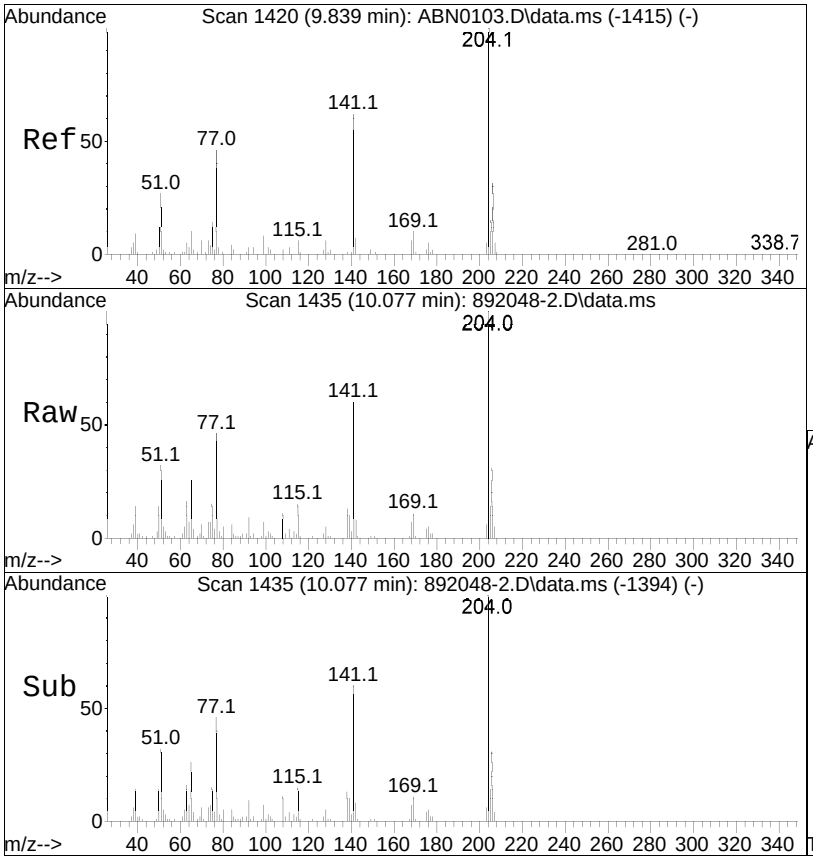


#71
Diethyl phthalate
Concen: 3.63 ug/ml
RT: 9.995 min Scan# 1421
Delta R.T. -0.000 min
Lab File: 892048-2.D
Acq: 5 Mar 2024 5:19 am

Tgt Ion:149 Resp: 137265

Ion	Ratio	Lower	Upper
149	100		
177	21.1	16.1	24.1
150	12.0	9.4	14.2

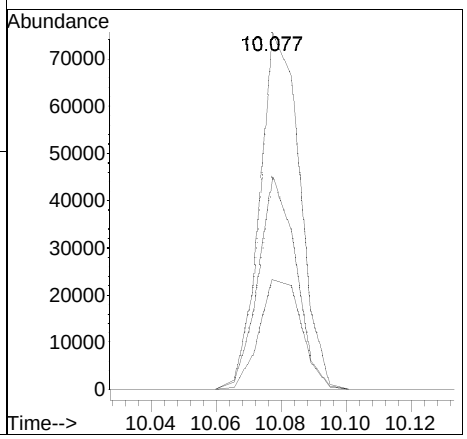


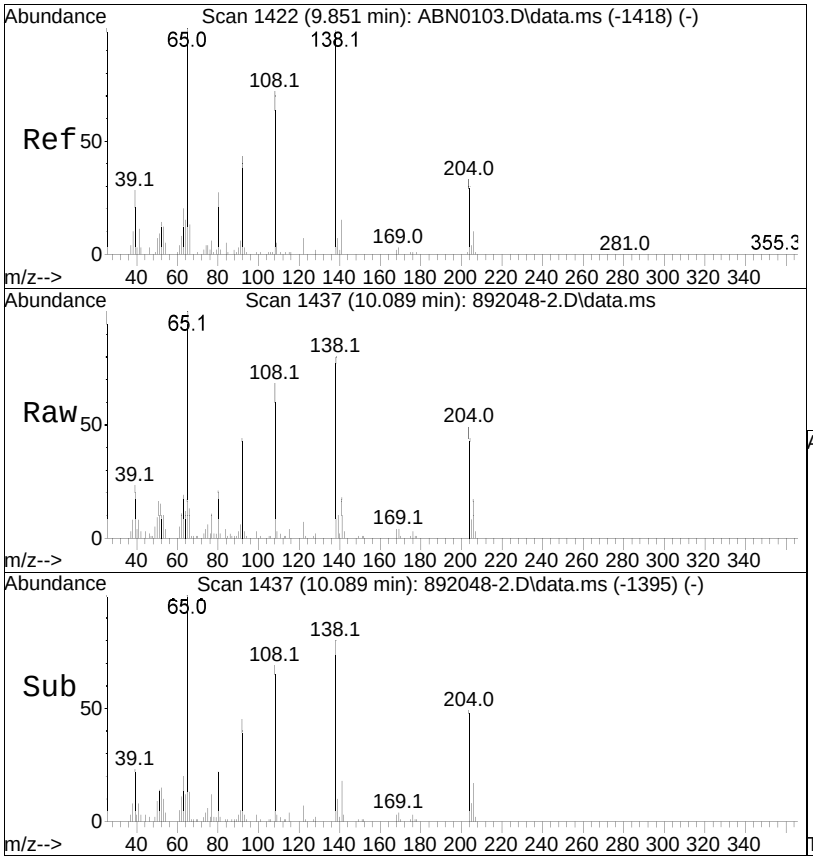


#73
4-Chlorophenyl phenyl ether
Concen: 3.79 ug/ml
RT: 10.077 min Scan# 1435
Delta R.T. -0.006 min
Lab File: 892048-2.D
Acq: 5 Mar 2024 5:19 am

Tgt Ion:204 Resp: 64416

Ion	Ratio	Lower	Upper
204	100		
206	32.8	25.8	38.6
141	56.2	53.6	80.4

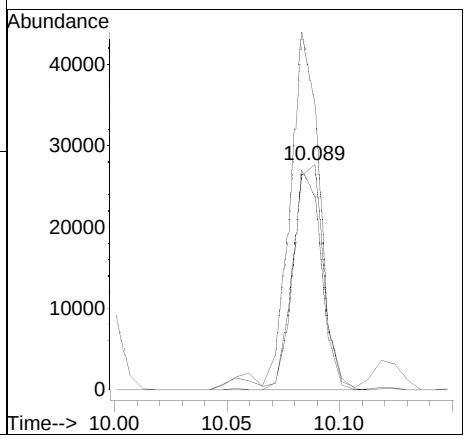


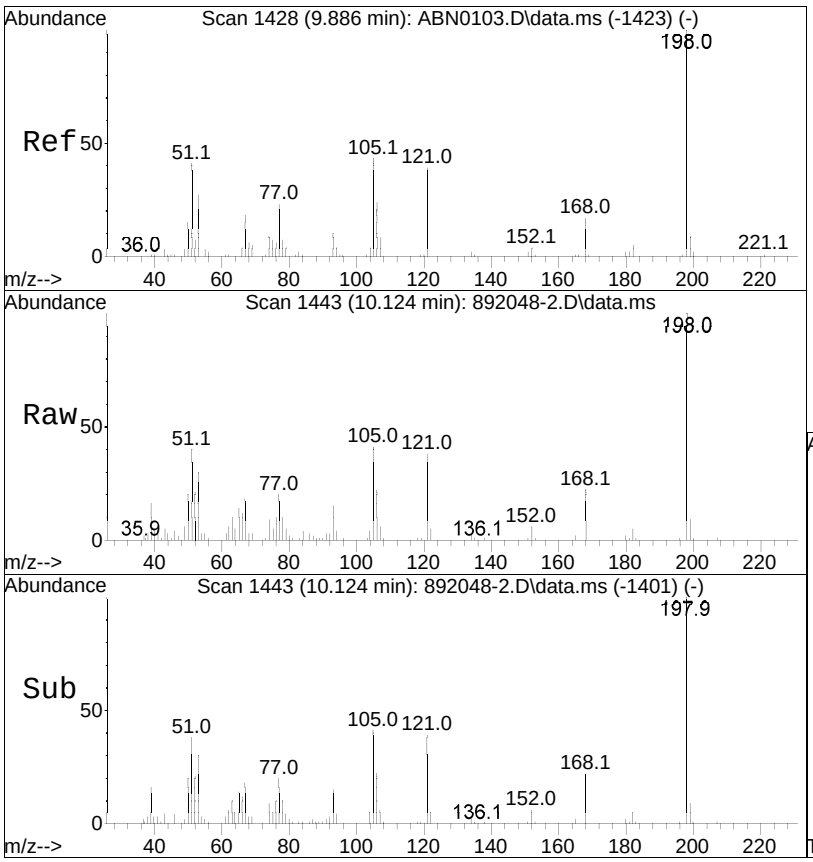


#74
4-Nitroaniline
Concen: 3.59 ug/ml
RT: 10.089 min Scan# 1437
Delta R.T. -0.000 min
Lab File: 892048-2.D
Acq: 5 Mar 2024 5:19 am

Tgt Ion:138 Resp: 27650

Ion	Ratio	Lower	Upper
138	100		
108	85.9	52.1	78.1#
65	146.8	115.0	172.6

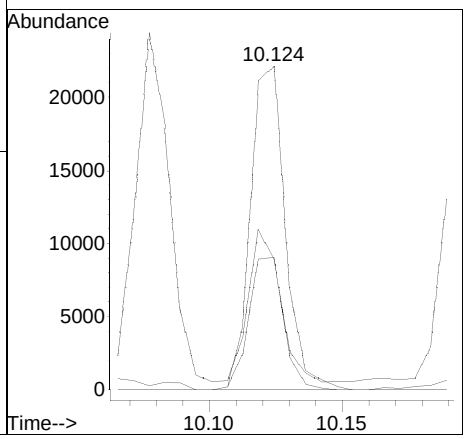


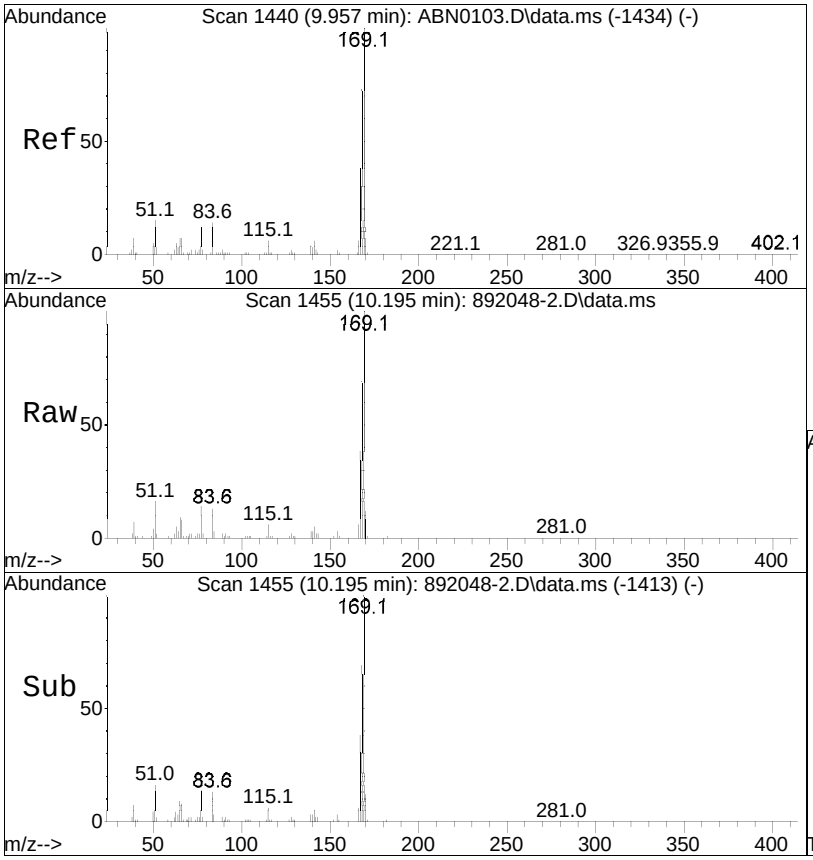


#75
4,6-Dinitro-o-cresol
Concen: 4.67 ug/ml
RT: 10.124 min Scan# 1443
Delta R.T. -0.000 min
Lab File: 892048-2.D
Acq: 5 Mar 2024 5:19 am

Tgt Ion:198 Resp: 20127

Ion	Ratio	Lower	Upper
198	100		
51	45.5	76.0	114.0#
105	41.1	45.6	68.4#

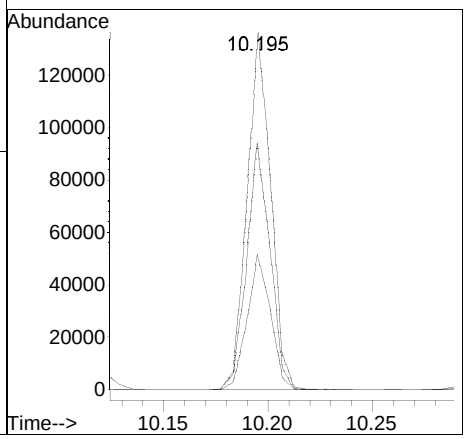


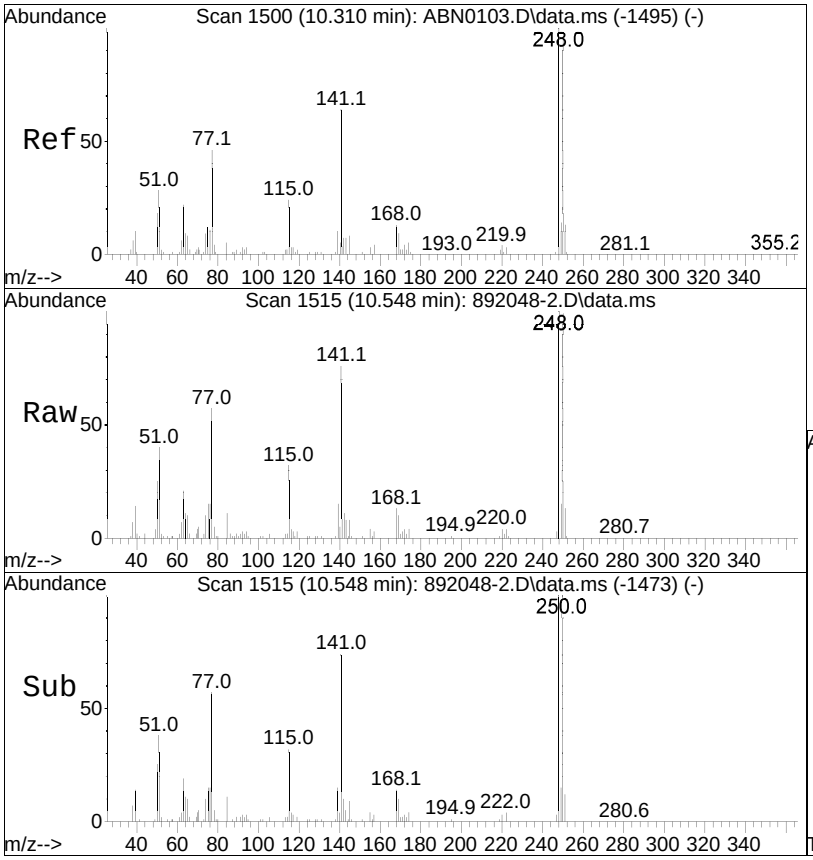


#76
NDPA/DPA
Concen: 3.56 ug/ml
RT: 10.195 min Scan# 1455
Delta R.T. -0.000 min
Lab File: 892048-2.D
Acq: 5 Mar 2024 5:19 am

Tgt Ion:169 Resp: 106835

Ion	Ratio	Lower	Upper
169	100		
168	68.5	54.0	81.0
167	37.5	28.6	42.8

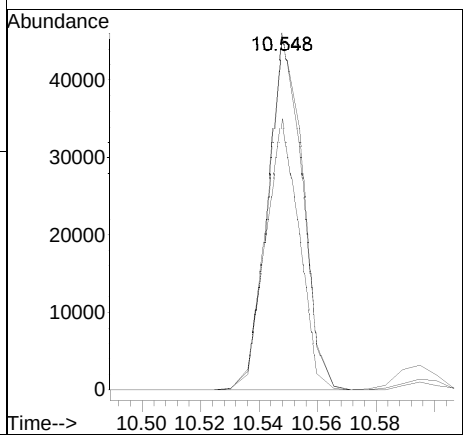


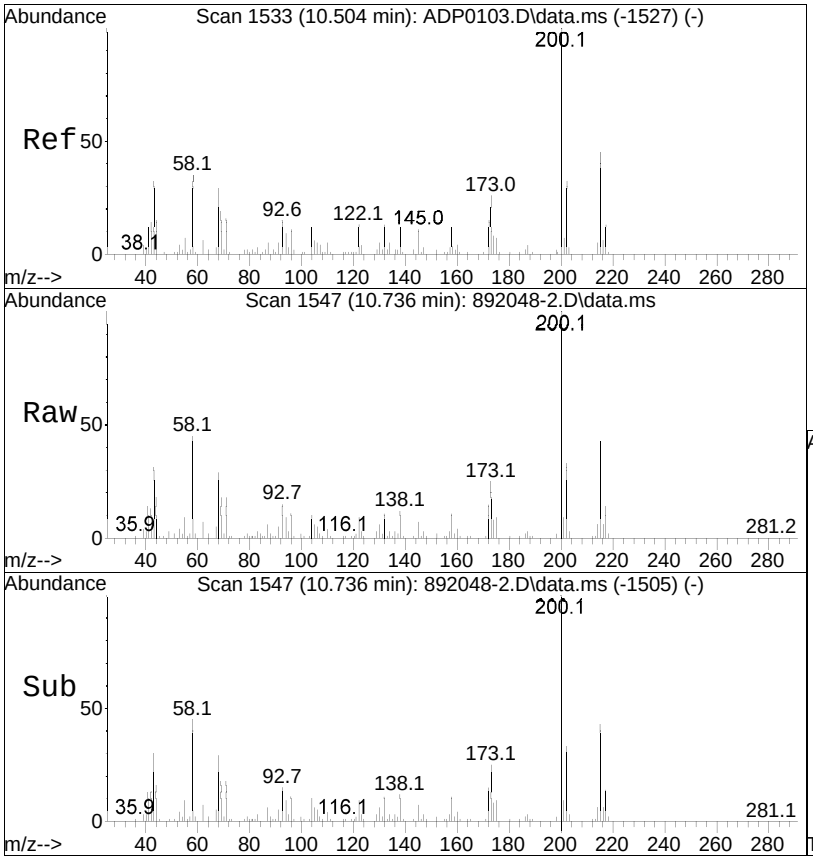


#79
4-Bromophenyl phenyl ether
Concen: 3.81 ug/ml
RT: 10.548 min Scan# 1515
Delta R.T. -0.000 min
Lab File: 892048-2.D
Acq: 5 Mar 2024 5:19 am

Tgt Ion:248 Resp: 37731

Ion	Ratio	Lower	Upper
248	100		
141	74.4	76.6	114.8#
250	99.7	77.3	115.9

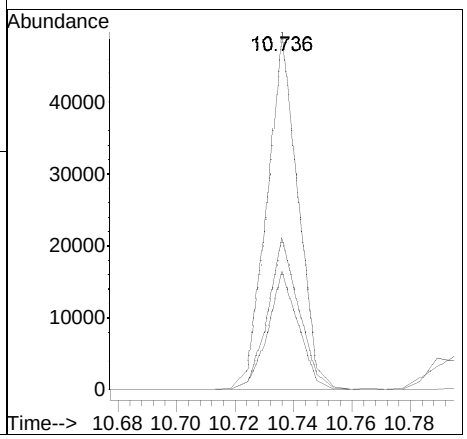


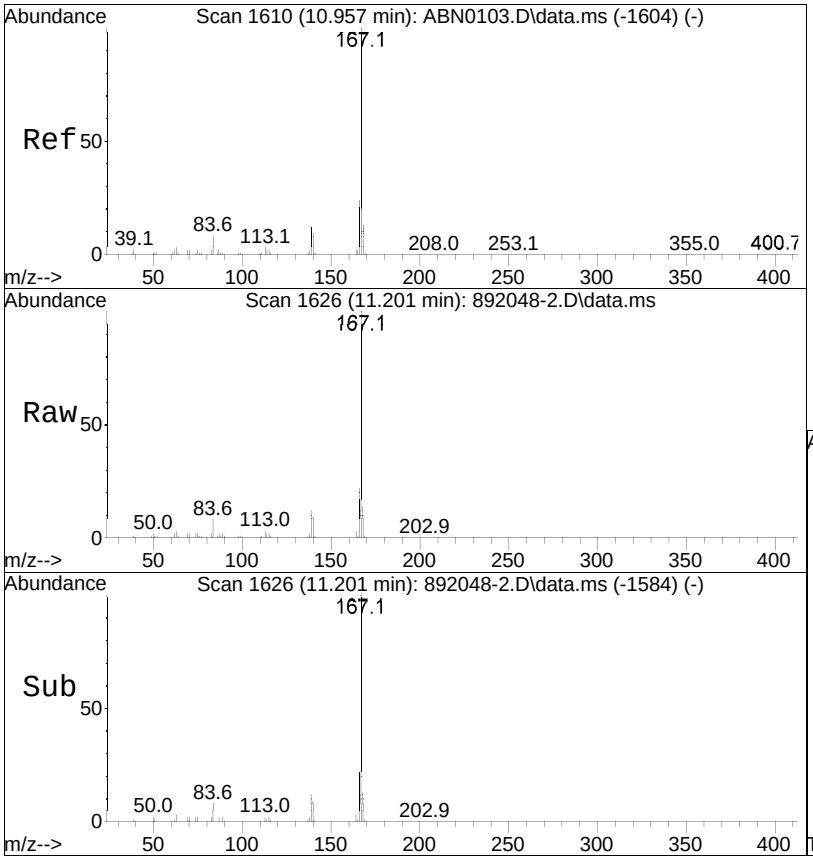


#86
Atrazine
Concen: 3.94 ug/ml
RT: 10.736 min Scan# 1547
Delta R.T. -0.000 min
Lab File: 892048-2.D
Acq: 5 Mar 2024 5:19 am

Tgt Ion:200 Resp: 36296

Ion	Ratio	Lower	Upper
200	100		
202	32.7	25.8	38.6
215	42.6	40.2	60.4

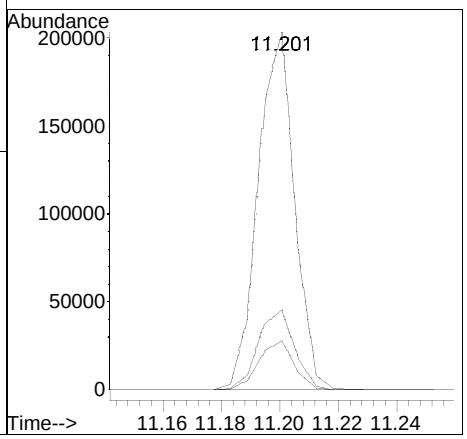


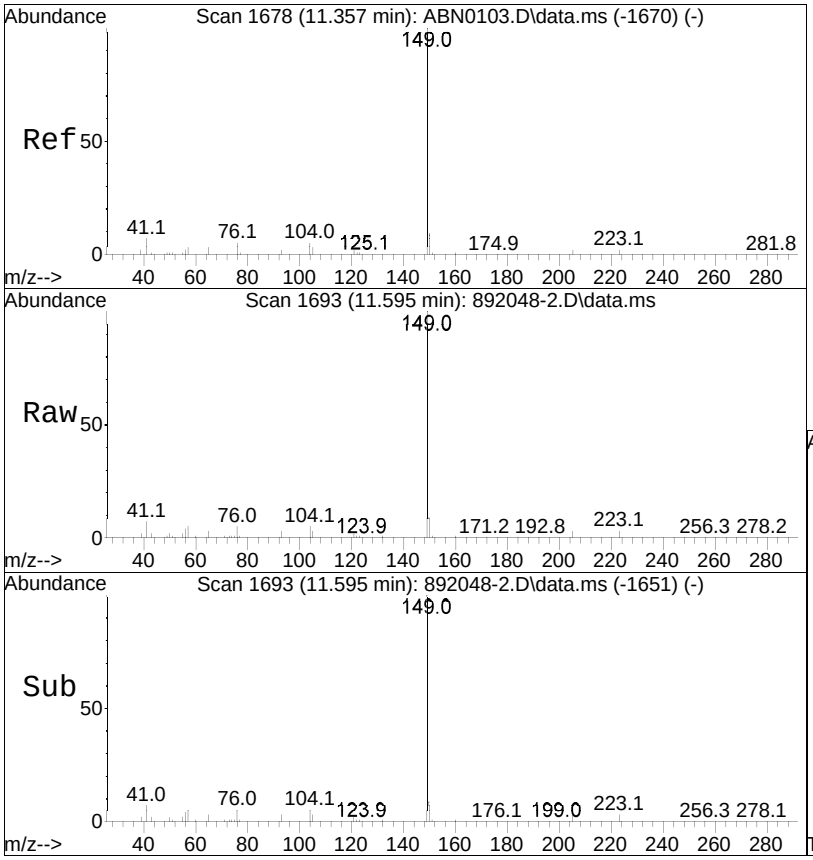


#90
Carbazole
Concen: 3.45 ug/ml
RT: 11.201 min Scan# 1626
Delta R.T. -0.000 min
Lab File: 892048-2.D
Acq: 5 Mar 2024 5:19 am

Tgt Ion:167 Resp: 173749

Ion	Ratio	Lower	Upper
167	100		
168	13.4	10.6	15.8
166	22.5	17.4	26.0

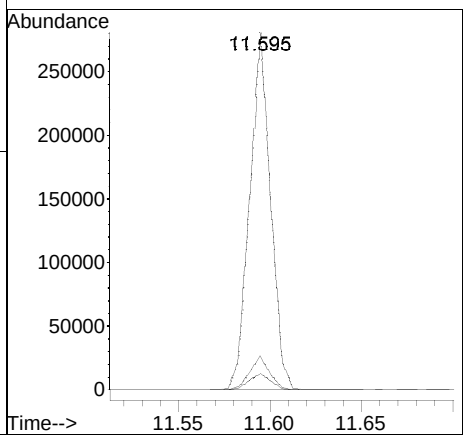


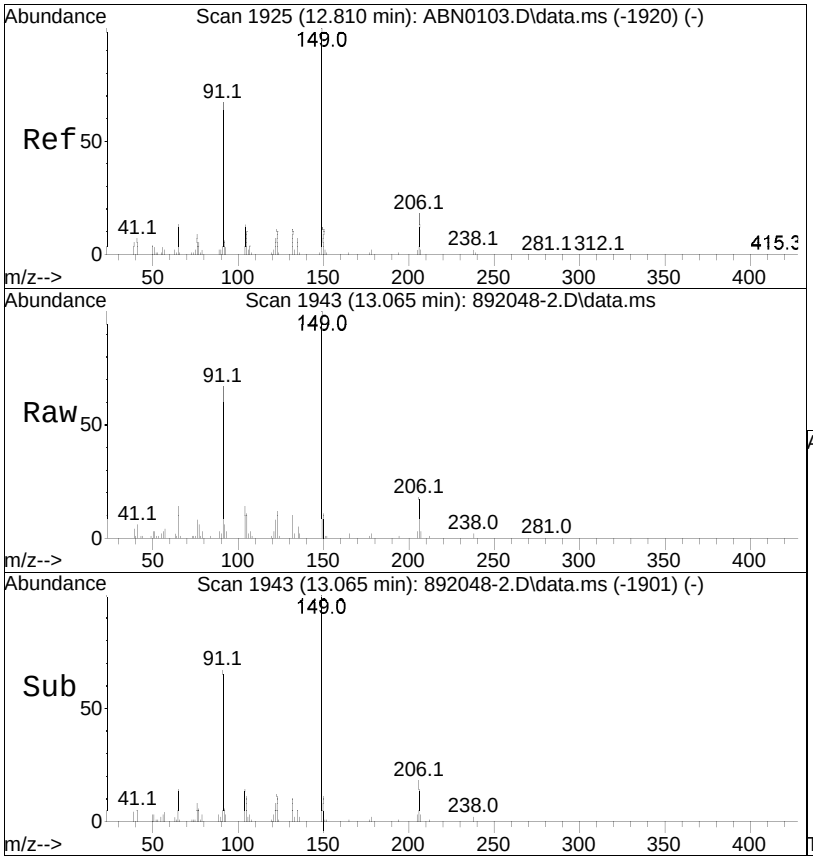


#91
Di-n-butylphthalate
Concen: 3.37 ug/ml
RT: 11.595 min Scan# 1693
Delta R.T. -0.000 min
Lab File: 892048-2.D
Acq: 5 Mar 2024 5:19 am

Tgt Ion:149 Resp: 217588

Ion	Ratio	Lower	Upper
149	100		
150	9.2	7.0	10.6
104	4.9	4.5	6.7

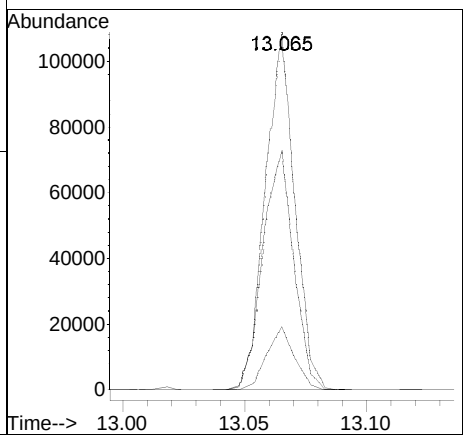


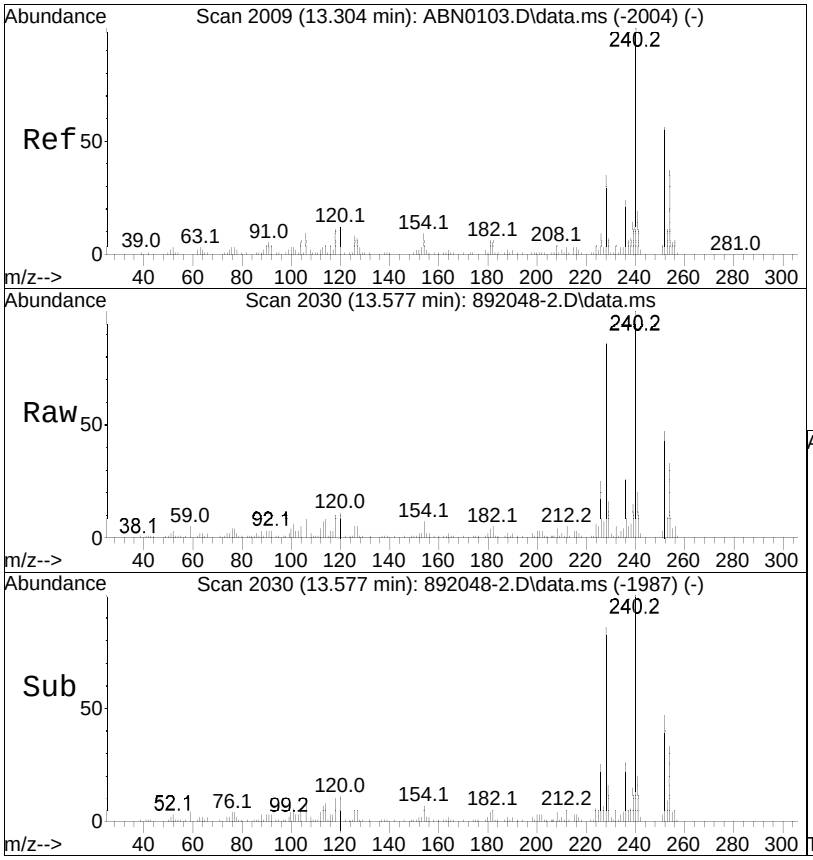


#96
Butyl benzyl phthalate
Concen: 3.27 ug/ml
RT: 13.065 min Scan# 1943
Delta R.T. -0.000 min
Lab File: 892048-2.D
Acq: 5 Mar 2024 5:19 am

Tgt Ion:149 Resp: 90011

Ion	Ratio	Lower	Upper
149	100		
91	70.3	63.3	94.9
206	16.8	13.9	20.9

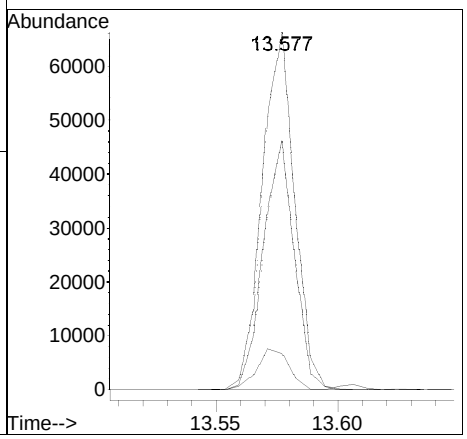


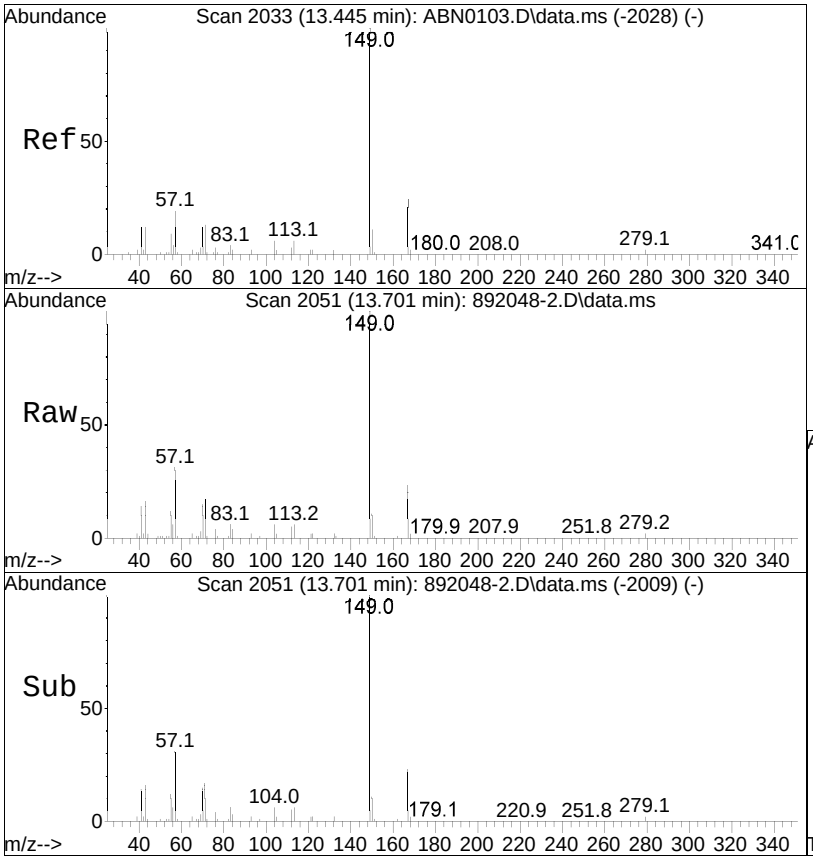


#105
3,3'-Dichlorobenzidine
Concen: 3.45 ug/ml
RT: 13.577 min Scan# 2030
Delta R.T. 0.006 min
Lab File: 892048-2.D
Acq: 5 Mar 2024 5:19 am

Tgt Ion:252 Resp: 61066

Ion	Ratio	Lower	Upper
252	100		
126	11.8	14.5	21.7#
254	66.9	51.2	76.8

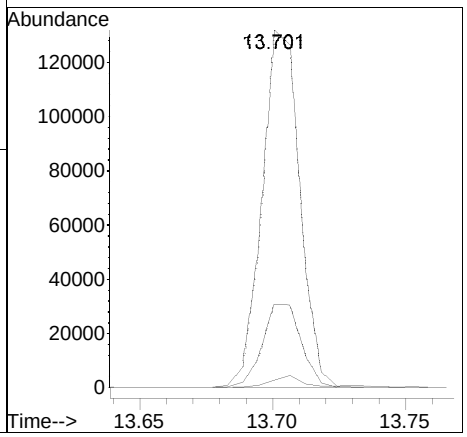


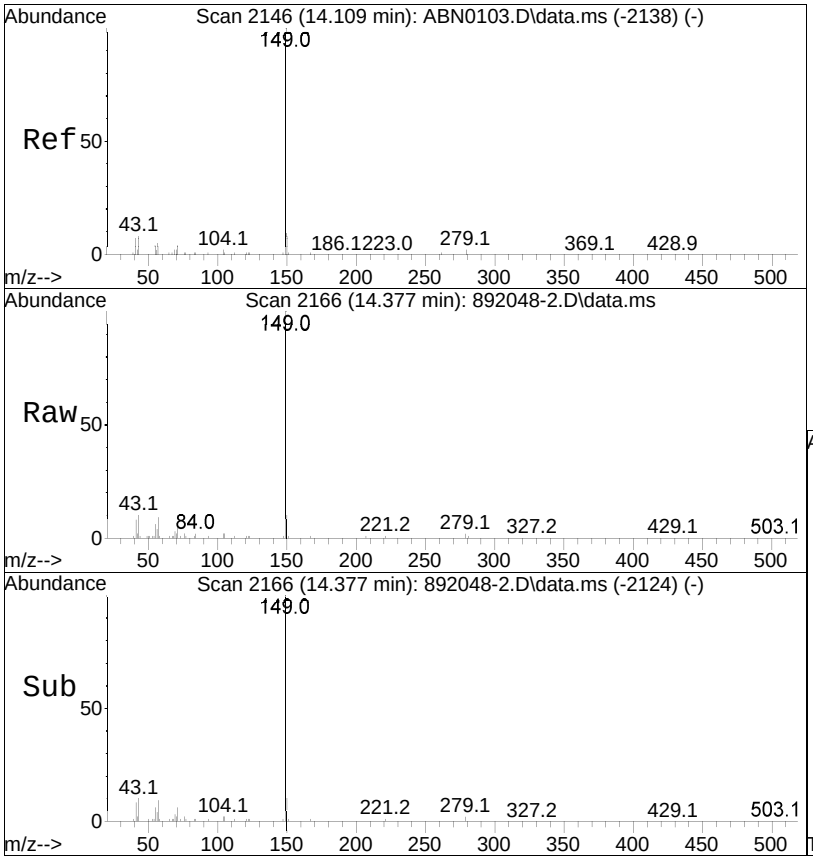


#107
Bis(2-ethylhexyl)phthalate
Concen: 3.85 ug/ml
RT: 13.701 min Scan# 2051
Delta R.T. -0.000 min
Lab File: 892048-2.D
Acq: 5 Mar 2024 5:19 am

Tgt Ion:149 Resp: 128705

Ion	Ratio	Lower	Upper
149	100		
167	24.1	22.1	33.1
279	2.6	3.0	4.4#

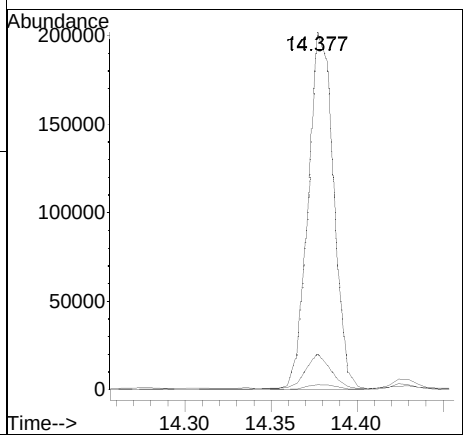




#108
Di-n-octylphthalate
Concen: 3.64 ug/ml
RT: 14.377 min Scan# 2166
Delta R.T. -0.000 min
Lab File: 892048-2.D
Acq: 5 Mar 2024 5:19 am

Tgt Ion:149 Resp: 205292

Ion	Ratio	Lower	Upper
149	100		
43	9.8	18.8	28.2#
167	1.5	1.3	1.9



Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240302lvi\
Data File : 891419-3.D
Acq On : 2 Mar 2024 4:54 pm
Operator : Dakota:sz
Sample : WG1891419-3,32,,cmm
Misc : wg1891492,WG1891419,ical20900
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Mar 04 08:29:47 2024
Quant Method : I:\8270\dakota\240302lvi\FS240228LVIDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Mar 02 17:13:43 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\240302lvi\ABN0302.D
: 2 - I:\8270\Dakota\240302lvi\APDP0302.D
Sub List : 8270TCL_REV2 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	4.776	152	24877	4.000	ug/ml	0.00
Standard Area 1 = 24014			Recovery = 103.59%			
27) IS2_1,4-Dichlorobenzen...	4.776	152	24877	4.000	ug/ml	0.00
Standard Area 2 = 20026			Recovery = 124.22%			
33) IS1_Naphthalene-d8	6.010	136	87997	4.000	ug/ml	# 0.00
Standard Area 1 = 81733			Recovery = 107.66%			
53) IS2_Naphthalene-d8	6.010	136	87997	4.000	ug/ml	# 0.00
Standard Area 2 = 70682			Recovery = 124.50%			
61) IS1_Acenaphthene-d10	7.710	164	58256	4.000	ug/ml	0.00
Standard Area 1 = 56426			Recovery = 103.24%			
81) IS2_Acenaphthene-d10	7.710	164	58256	4.000	ug/ml	0.00
Standard Area 2 = 48337			Recovery = 120.52%			
85) IS1_Phenanthrene-d10	9.143	188	137378	4.000	ug/ml	0.00
Standard Area 1 = 126344			Recovery = 108.73%			
100) IS1_Chrysene-d12	11.773	240	142435	4.000	ug/ml	# 0.00
Standard Area 1 = 137232			Recovery = 103.79%			
109) IS1_Perylene-d12	13.240	264	168707	4.000	ug/ml	0.00
Standard Area 1 = 160070			Recovery = 105.40%			
System Monitoring Compounds						
4) 2-Fluorophenol	3.514	112	17596	2.642	ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 52.84%			
7) Phenol-d6	4.456	99	20427	2.374	ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 47.48%			
19) Nitrobenzene-d5	5.317	82	10762	1.388	ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 55.52%			
44) 2-Fluorobiphenyl	7.076	172	29783	1.510	ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 60.40%			
77) 2,4,6-Tribromophenol	8.475	330	11848	3.096	ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 61.92%			
93) 4-Terphenyl-d14	10.716	244	51992	1.449	ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 57.96%			
Target Compounds						Qvalue
6) 2-Chlorophenol	4.574	128	22586	3.102	ug/ml	92
8) Phenol	4.469	94	22672	2.386	ug/ml#	69
9) Bis(2-chloroethyl)ether	4.540	93	18625	2.767	ug/ml	98

Data Path : I:\8270\Dakota\240302lvi\
Data File : 891419-3.D
Acq On : 2 Mar 2024 4:54 pm
Operator : Dakota:sz
Sample : WG1891419-3,32,,cmm
Misc : wg1891492,WG1891419,ical20900
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Mar 04 08:29:47 2024
Quant Method : I:\8270\dakota\240302lvi\FS240228LVIDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Mar 02 17:13:43 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\240302lvi\ABN0302.D
: 2 - I:\8270\Dakota\240302lvi\APDP0302.D
Sub List : 8270TCL_REV2 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
14) Bis(2-chloroisopropyl)...	5.068	45	37781	2.760	ug/ml#	69
15) 2-Methylphenol	5.056	108	19849	3.065	ug/ml	98
17) n-Nitrosodi-n-propylamine	5.193	70	16222	3.031	ug/ml#	90
18) 3-Methylphenol/4-Methy...	5.208	108	21290	3.009	ug/ml	100
20) Nitrobenzene	5.336	77	21504	2.819	ug/ml	99
21) Isophorone	5.575	82	40383	2.973	ug/ml	95
22) 2-Nitrophenol	5.650	139	10807	3.028	ug/ml	94
23) 2,4-Dimethylphenol	5.721	107	18871	3.388	ug/ml	98
24) Bis(2-chloroethoxy)met...	5.808	93	26745	3.063	ug/ml#	96
25) 2,4-Dichlorophenol	5.886	162	23384	3.265	ug/ml#	89
28) Benzaldehyde	4.347	105	16244	5.415	ug/ml	97
29) Acetophenone	5.177	105	32400	3.076	ug/ml#	81
36) 4-Chloroaniline	6.100	65	8217	2.889	ug/ml	89
38) p-Chloro-m-cresol	6.591	107	20260	3.261	ug/ml	91
41) Hexachlorocyclopentadiene	6.877	237	15956	3.094	ug/ml	98
42) 2,4,6-Trichlorophenol	6.992	196	20973	3.441	ug/ml	96
43) 2,4,5-Trichlorophenol	7.023	196	22969	3.444	ug/ml	98
46) 2-Nitroaniline	7.281	138	14238	3.272	ug/ml	87
49) Dimethyl phthalate	7.480	163	62345	3.297	ug/ml#	98
51) 2,6-Dinitrotoluene	7.524	165	11724	3.168	ug/ml#	79
58) Caprolactam	6.402	55	5290	1.461	ug/ml#	87
59) 1,2,4,5-Tetrachloroben...	6.877	216	32109	3.269	ug/ml#	92
60) Biphenyl	7.166	154	64022	3.267	ug/ml	98
62) 3-Nitroaniline	7.679	138	12452	2.999	ug/ml#	90
64) 2,4-Dinitrophenol	7.782	184	5021	2.684	ug/ml#	83
65) Dibenzofuran	7.912	168	82376	3.205	ug/ml	88
66) 2,4-Dinitrotoluene	7.912	165	15907	2.965	ug/ml	95
67) 4-Nitrophenol	7.866	65	9557	2.788	ug/ml	90
69) 2,3,4,6-Tetrachlorophenol	8.043	232	19576	3.388	ug/ml	96
70) Diethyl phthalate	8.167	149	61155	3.135	ug/ml	98
72) 4-Chlorophenyl phenyl ...	8.257	204	34346	3.305	ug/ml#	81
73) 4-Nitroaniline	8.267	138	13686	3.326	ug/ml	86
74) 4,6-Dinitro-o-cresol	8.301	198	9765	3.320	ug/ml#	60
75) NDPA/DPA	8.372	169	53392	3.280	ug/ml	95
78) 4-Bromophenyl phenyl e...	8.727	248	22019	3.322	ug/ml#	77
84) Atrazine	8.907	200	17968	3.216	ug/ml	90
88) Carbazole	9.379	167	100034	3.008	ug/ml	99
89) Di-n-butylphthalate	9.762	149	107637	2.917	ug/ml#	97

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240302lvi\
Data File : 891419-3.D
Acq On : 2 Mar 2024 4:54 pm
Operator : Dakota:sz
Sample : WG1891419-3,32,,cmm
Misc : wg1891492,WG1891419,ical20900
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Mar 04 08:29:47 2024
Quant Method : I:\8270\dakota\240302lvi\FS240228LVIDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Mar 02 17:13:43 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\240302lvi\ABN0302.D
: 2 - I:\8270\Dakota\240302lvi\APDP0302.D
Sub List : 8270TCL_REV2 - TCL/CT/MA

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
94)	Butyl benzyl phthalate	11.238	149	46561	2.869	ug/ml	85
102)	3,3'-Dichlorobenzidine	11.760	252	50089	2.736	ug/ml#	95
104)	Bis(2-ethylhexyl)phtha...	11.872	149	72605	2.811	ug/ml#	92
105)	Di-n-octylphthalate	12.550	149	120857	2.927	ug/ml#	76

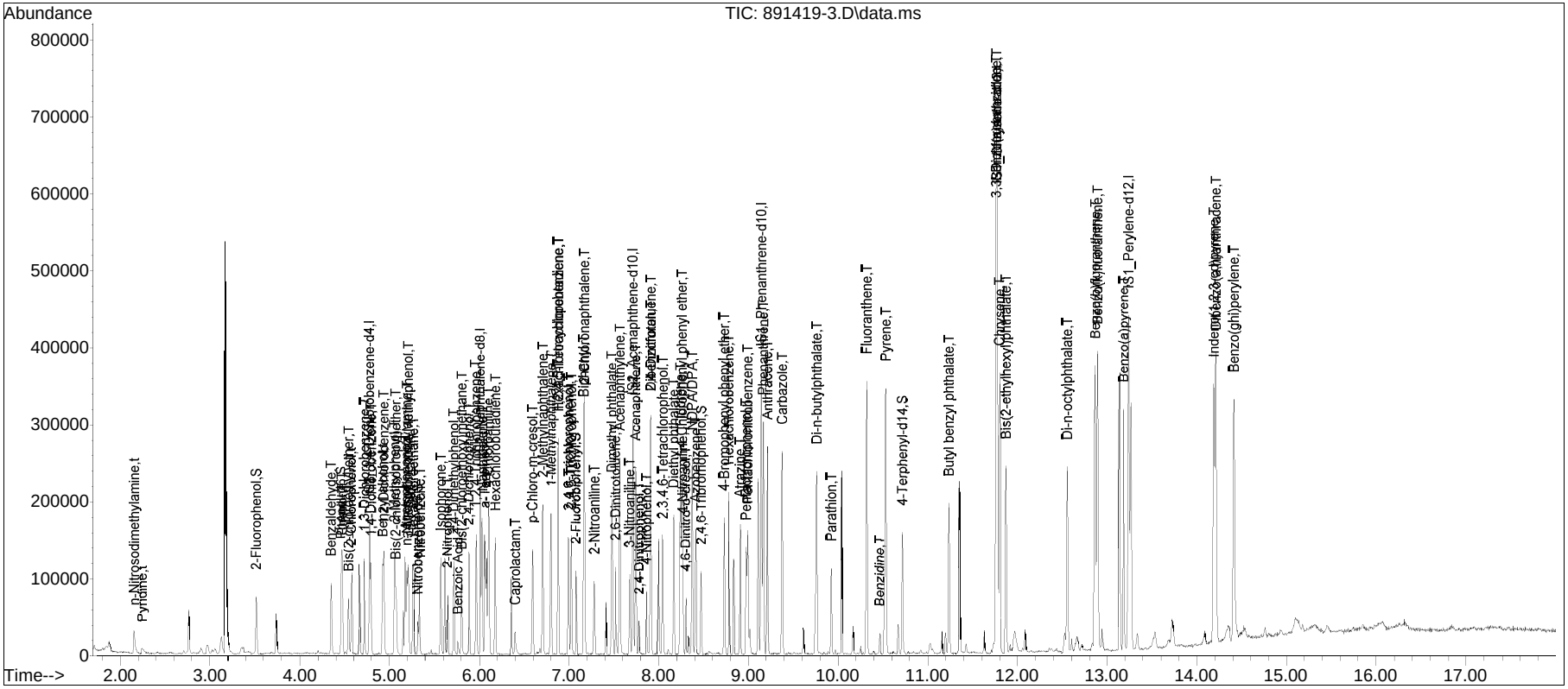
(#) = qualifier out of range (m) = manual integration (+) = signals summed

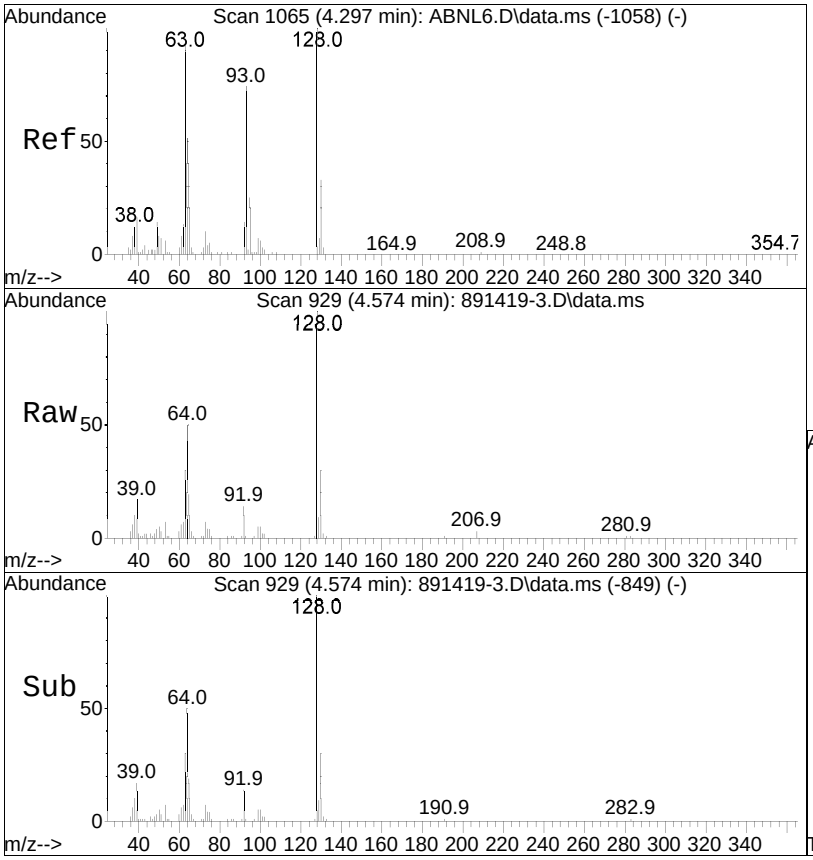
Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240302lvi\
Data File : 891419-3.D
Acq On : 2 Mar 2024 4:54 pm
Operator : Dakota:sz
Sample : WG1891419-3,32,,cmm
Misc : wg1891492,WG1891419,ical20900
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Mar 04 08:29:47 2024
Quant Method : I:\8270\dakota\240302lvi\FS240228LVIDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Mar 02 17:13:43 2024
Response via : Initial Calibration

Sub List : 8270TCL_REV2 - TCL/CT/MA2lvi\APDP0302.D•

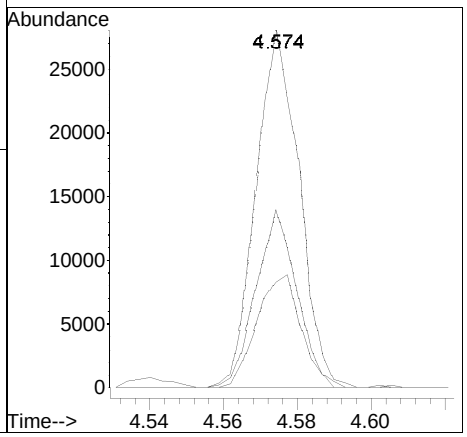


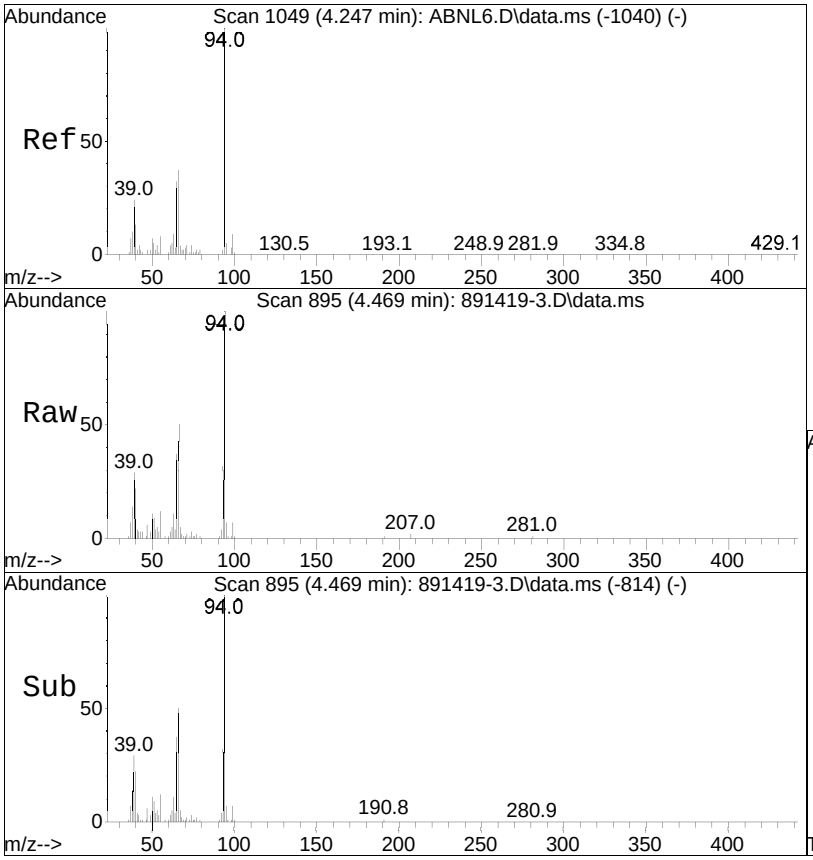


#6
2-Chlorophenol
Concen: 3.10 ug/ml
RT: 4.574 min Scan# 929
Delta R.T. -0.000 min
Lab File: 891419-3.D
Acq: 2 Mar 2024 4:54 pm

Tgt Ion:128 Resp: 22586

Ion	Ratio	Lower	Upper
128	100		
64	47.5	45.1	67.7
130	32.4	26.2	39.4

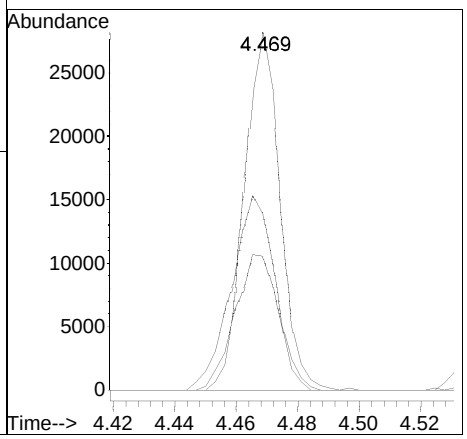


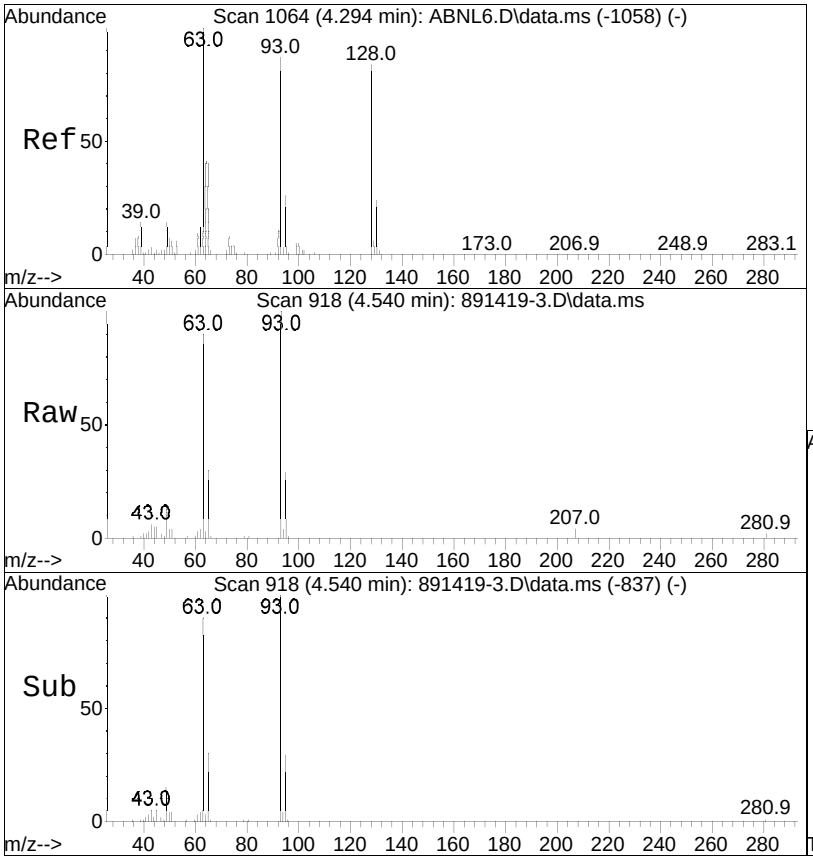


#8
Phenol
Concen: 2.39 ug/ml
RT: 4.469 min Scan# 895
Delta R.T. 0.003 min
Lab File: 891419-3.D
Acq: 2 Mar 2024 4:54 pm

Tgt Ion: 94 Resp: 22672

Ion	Ratio	Lower	Upper
94	100		
65	45.5	26.0	39.0#
66	66.2	33.8	50.8#

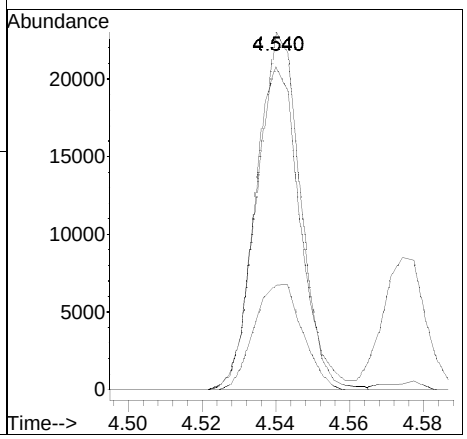


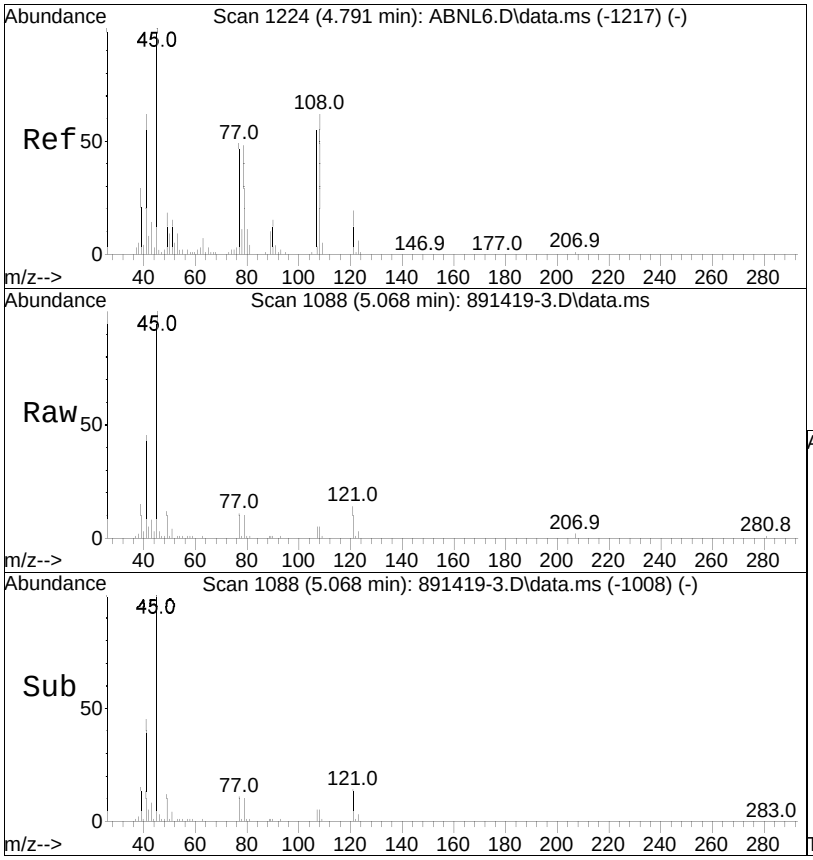


#9
Bis(2-chloroethyl)ether
Concen: 2.77 ug/ml
RT: 4.540 min Scan# 918
Delta R.T. -0.000 min
Lab File: 891419-3.D
Acq: 2 Mar 2024 4:54 pm

Tgt Ion: 93 Resp: 18625

Ion	Ratio	Lower	Upper
93	100		
63	95.3	74.6	111.8
95	33.1	25.9	38.9

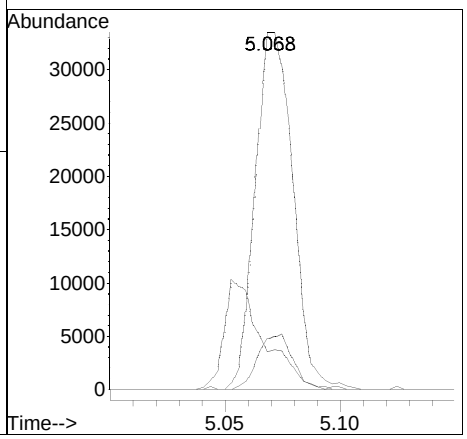


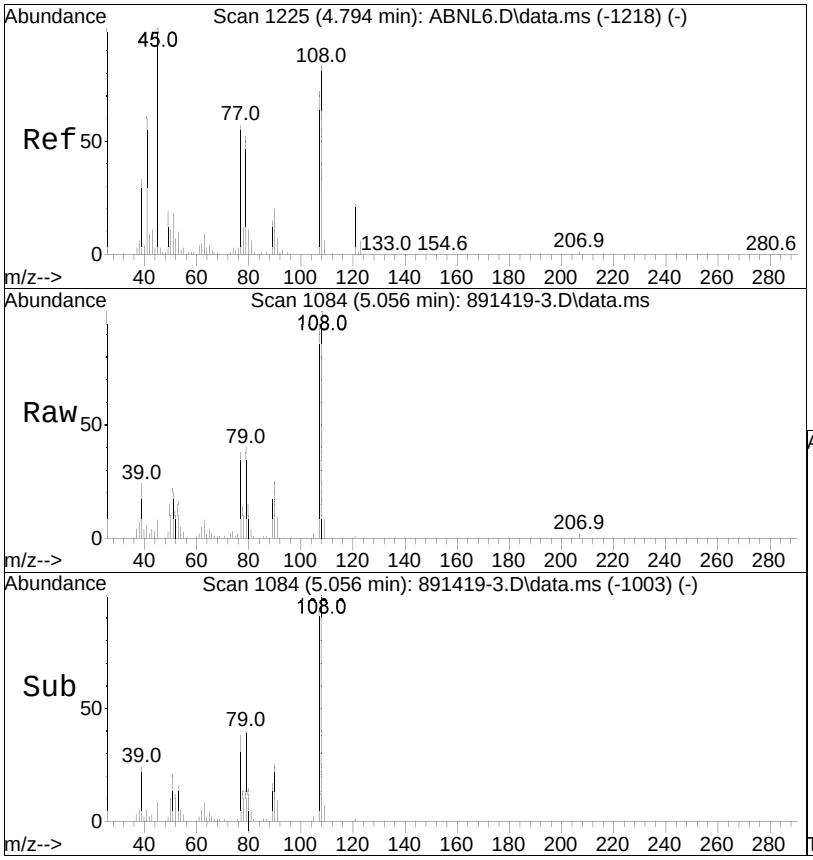


#14
Bis(2-chloroisopropyl)ether
Concen: 2.76 ug/ml
RT: 5.068 min Scan# 1088
Delta R.T. -0.000 min
Lab File: 891419-3.D
Acq: 2 Mar 2024 4:54 pm

Tgt Ion: 45 Resp: 37781

Ion	Ratio	Lower	Upper
45	100		
121	14.5	9.8	14.6
77	32.2	6.1	9.1#

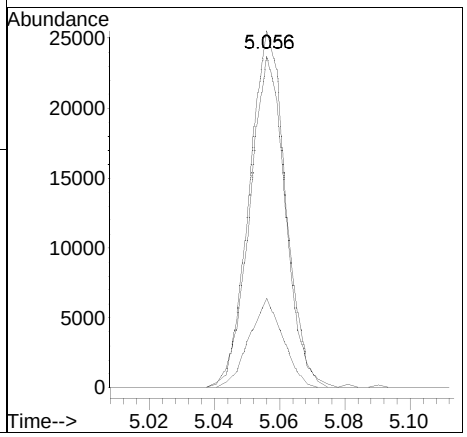


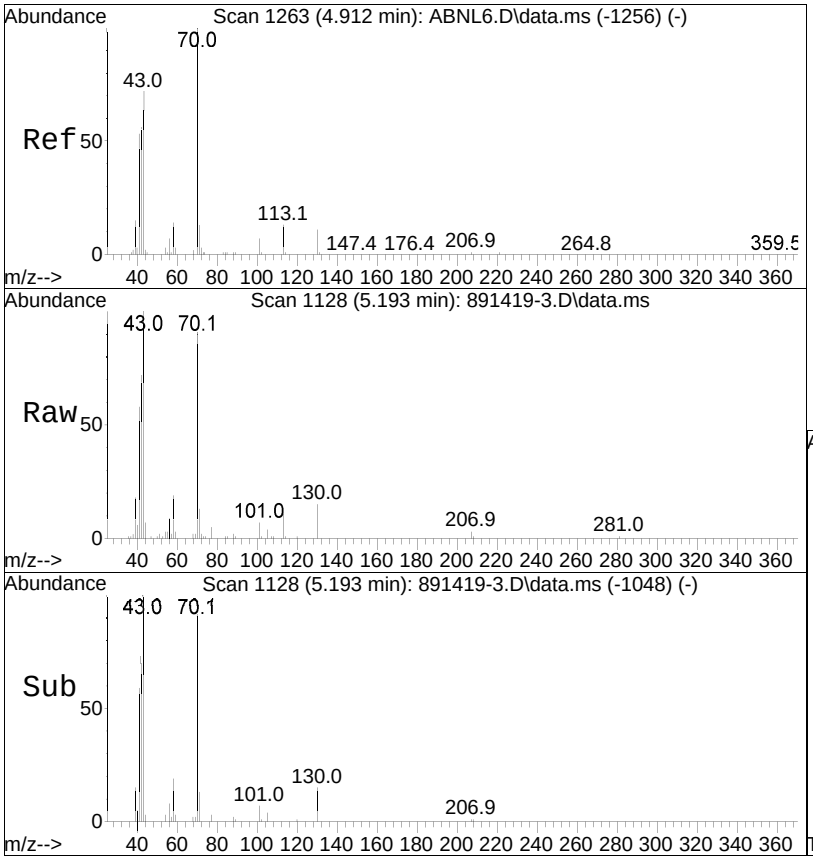


#15
2-Methylphenol
Concen: 3.07 ug/ml
RT: 5.056 min Scan# 1084
Delta R.T. 0.003 min
Lab File: 891419-3.D
Acq: 2 Mar 2024 4:54 pm

Tgt Ion:108 Resp: 19849

Ion	Ratio	Lower	Upper
108	100		
107	90.8	70.7	106.1
90	23.2	18.7	28.1

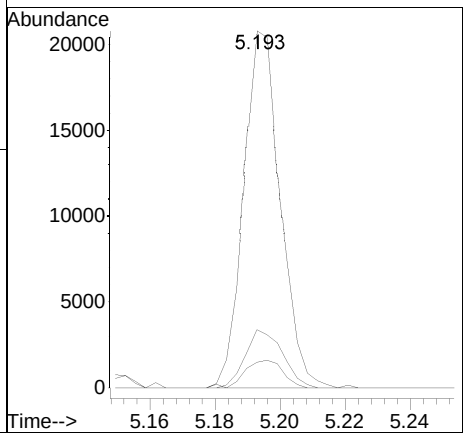


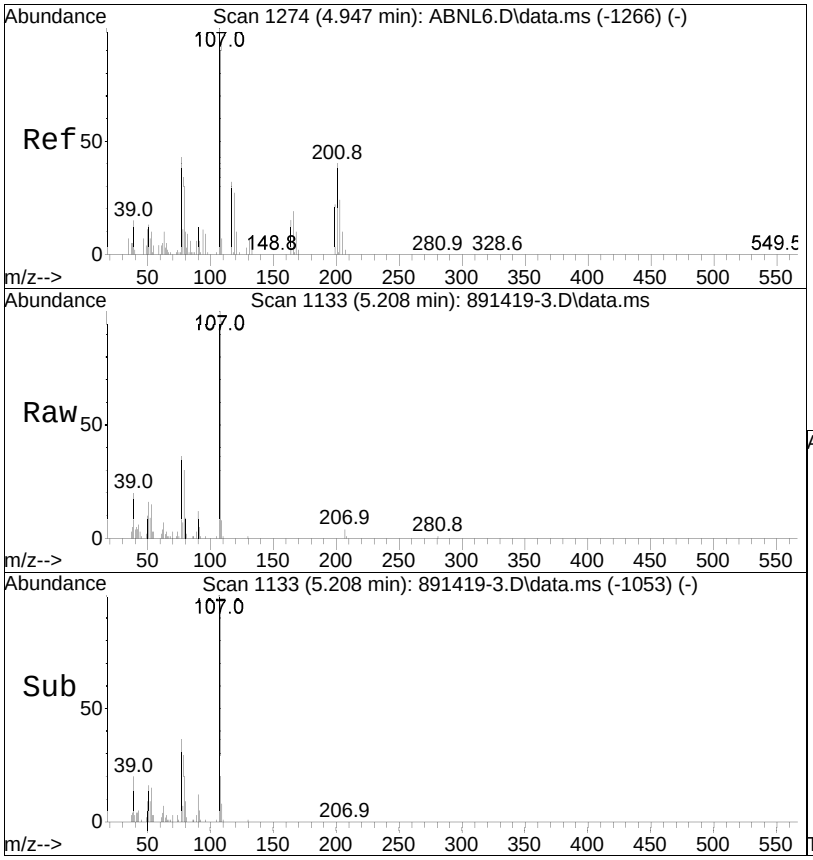


#17
n-Nitrosodi-n-propylamine
Concen: 3.03 ug/ml
RT: 5.193 min Scan# 1128
Delta R.T. -0.000 min
Lab File: 891419-3.D
Acq: 2 Mar 2024 4:54 pm

Tgt Ion: 70 Resp: 16222

Ion	Ratio	Lower	Upper
70	100		
130	16.6	18.2	27.4#
101	8.1	7.8	11.8

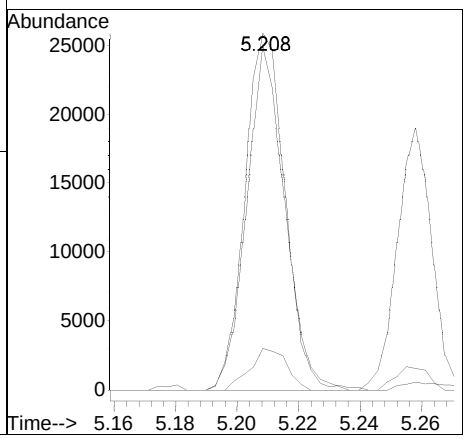


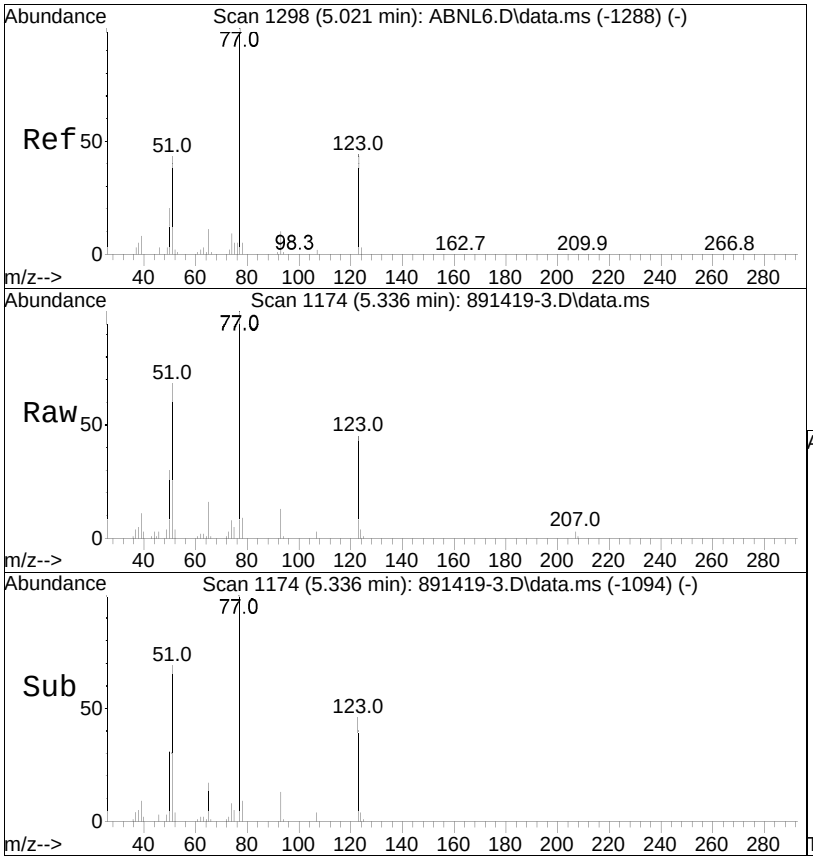


#18
3-Methylphenol/4-Methylphenol
Concen: 3.01 ug/ml
RT: 5.208 min Scan# 1133
Delta R.T. -0.000 min
Lab File: 891419-3.D
Acq: 2 Mar 2024 4:54 pm

Tgt Ion:108 Resp: 21290

Ion	Ratio	Lower	Upper
108	100		
107	111.0	88.6	132.8
90	11.7	8.8	13.2

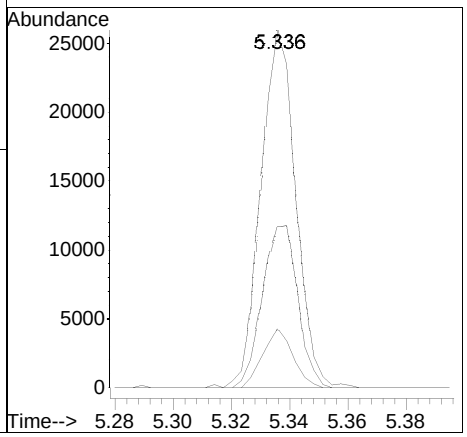


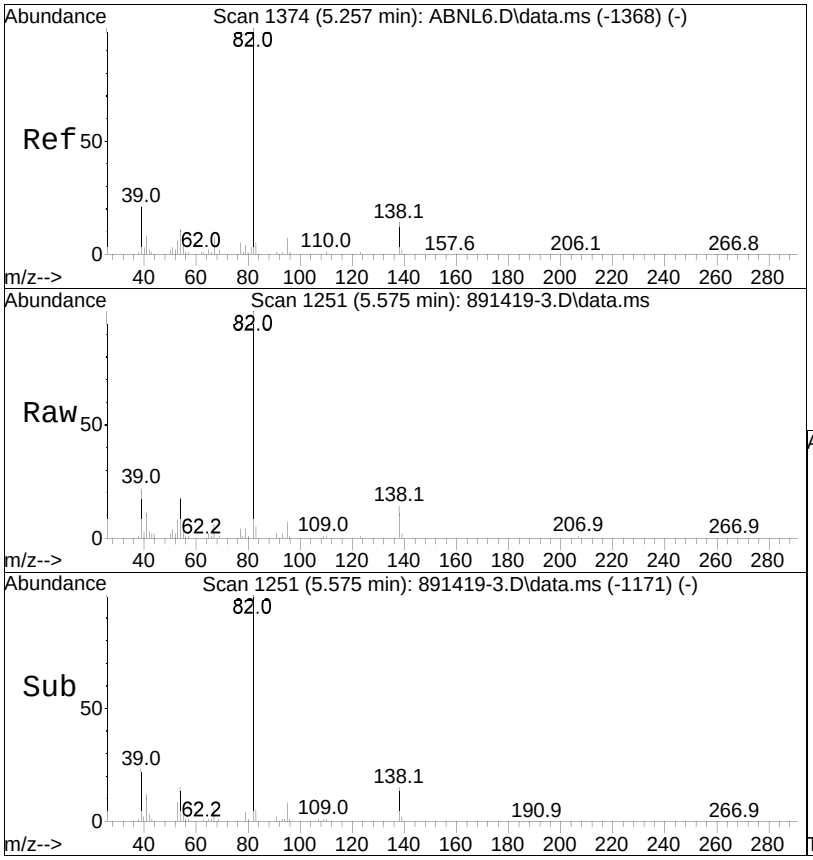


#20
Nitrobenzene
Concen: 2.82 ug/ml
RT: 5.336 min Scan# 1174
Delta R.T. -0.000 min
Lab File: 891419-3.D
Acq: 2 Mar 2024 4:54 pm

Tgt Ion: 77 Resp: 21504

Ion	Ratio	Lower	Upper
77	100		
123	46.0	36.3	54.5
65	14.1	11.6	17.4

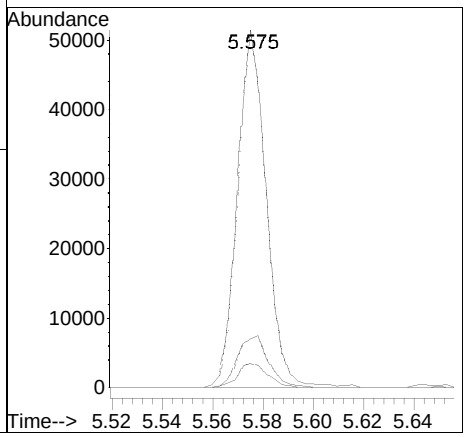


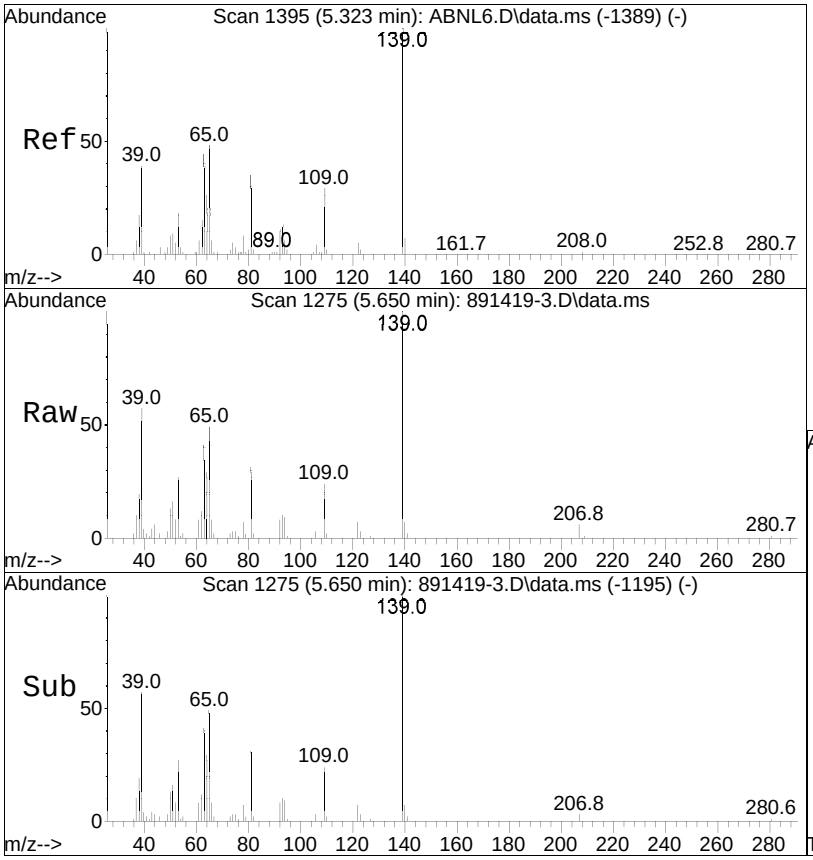


#21
Isophorone
Concen: 2.97 ug/ml
RT: 5.575 min Scan# 1251
Delta R.T. -0.000 min
Lab File: 891419-3.D
Acq: 2 Mar 2024 4:54 pm

Tgt Ion: 82 Resp: 40383

Ion	Ratio	Lower	Upper
82	100		
138	15.6	14.7	22.1
95	7.1	5.2	7.8

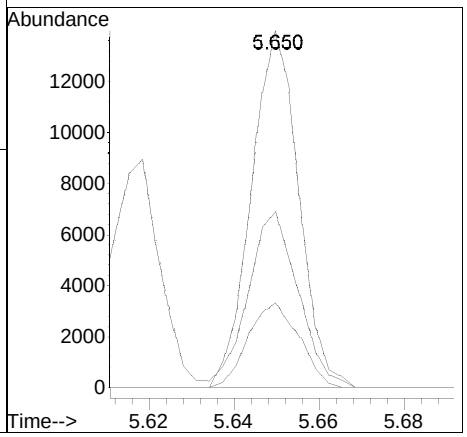


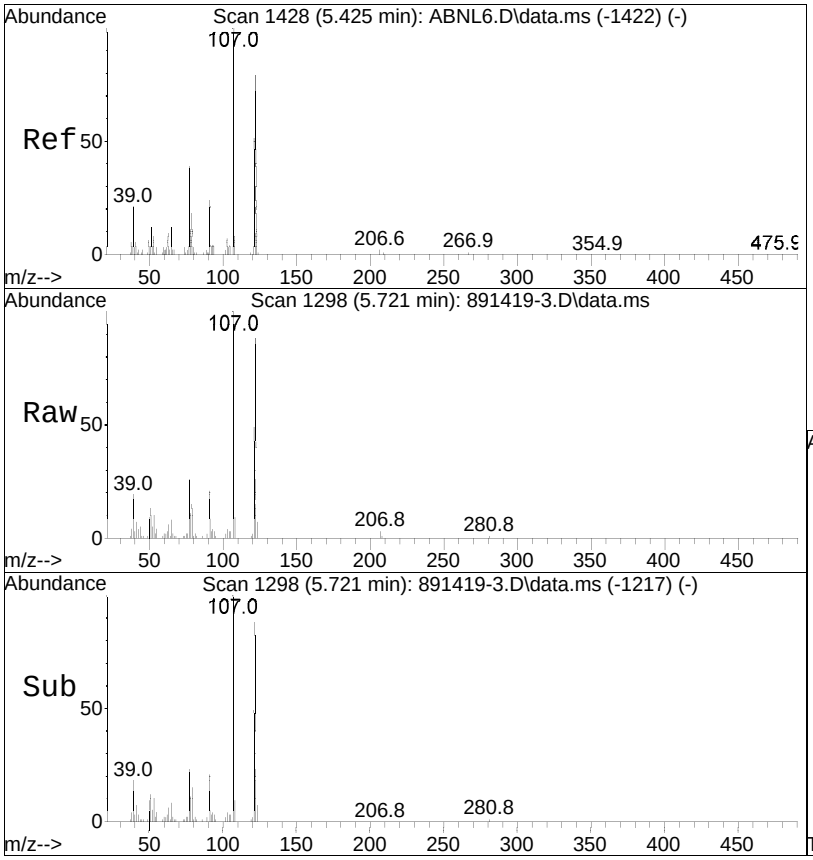


#22
2-Nitrophenol
Concen: 3.03 ug/ml
RT: 5.650 min Scan# 1275
Delta R.T. -0.000 min
Lab File: 891419-3.D
Acq: 2 Mar 2024 4:54 pm

Tgt Ion:139 Resp: 10807

Ion	Ratio	Lower	Upper
139	100		
109	25.5	19.4	29.0
65	52.1	46.1	69.1

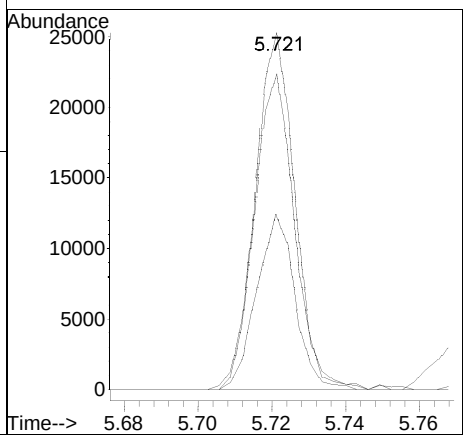


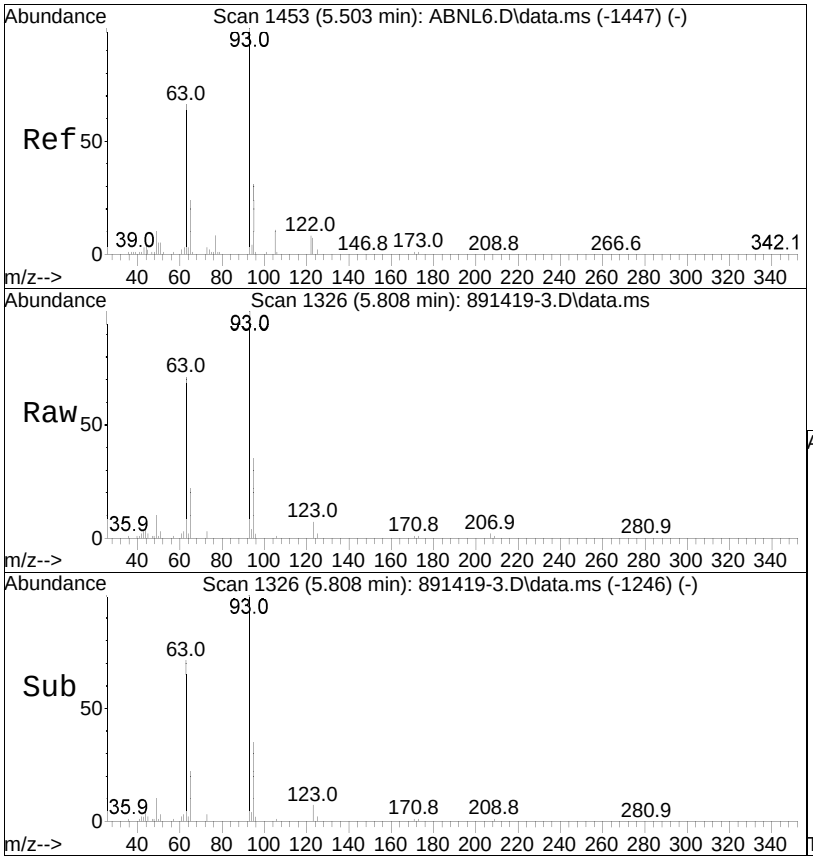


#23
2,4-Dimethylphenol
Concen: 3.39 ug/ml
RT: 5.721 min Scan# 1298
Delta R.T. 0.003 min
Lab File: 891419-3.D
Acq: 2 Mar 2024 4:54 pm

Tgt Ion:107 Resp: 18871

Ion	Ratio	Lower	Upper
107	100		
121	47.4	40.0	60.0
122	88.4	70.2	105.4

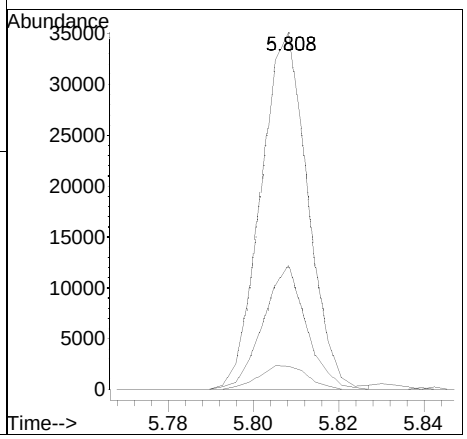


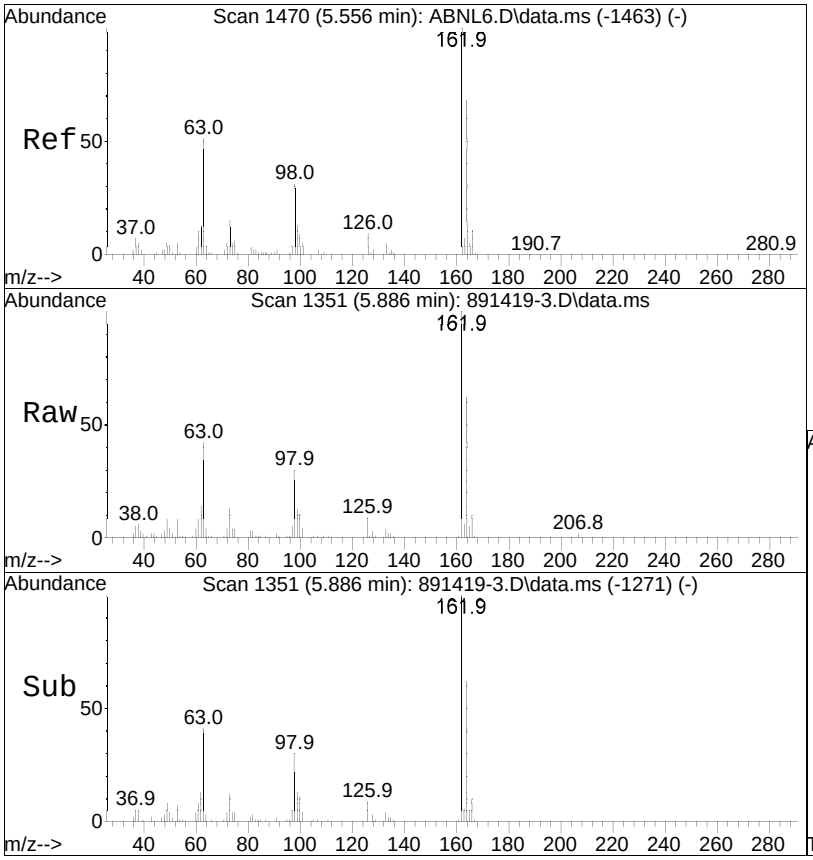


#24
Bis(2-chloroethoxy)methane
Concen: 3.06 ug/ml
RT: 5.808 min Scan# 1326
Delta R.T. -0.000 min
Lab File: 891419-3.D
Acq: 2 Mar 2024 4:54 pm

Tgt Ion: 93 Resp: 26745

Ion	Ratio	Lower	Upper
93	100		
95	32.1	25.8	38.8
123	7.0	10.1	15.1#

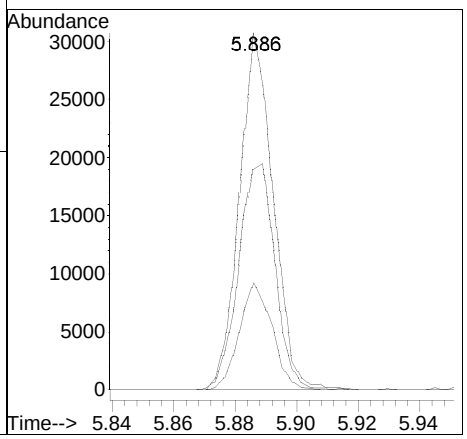


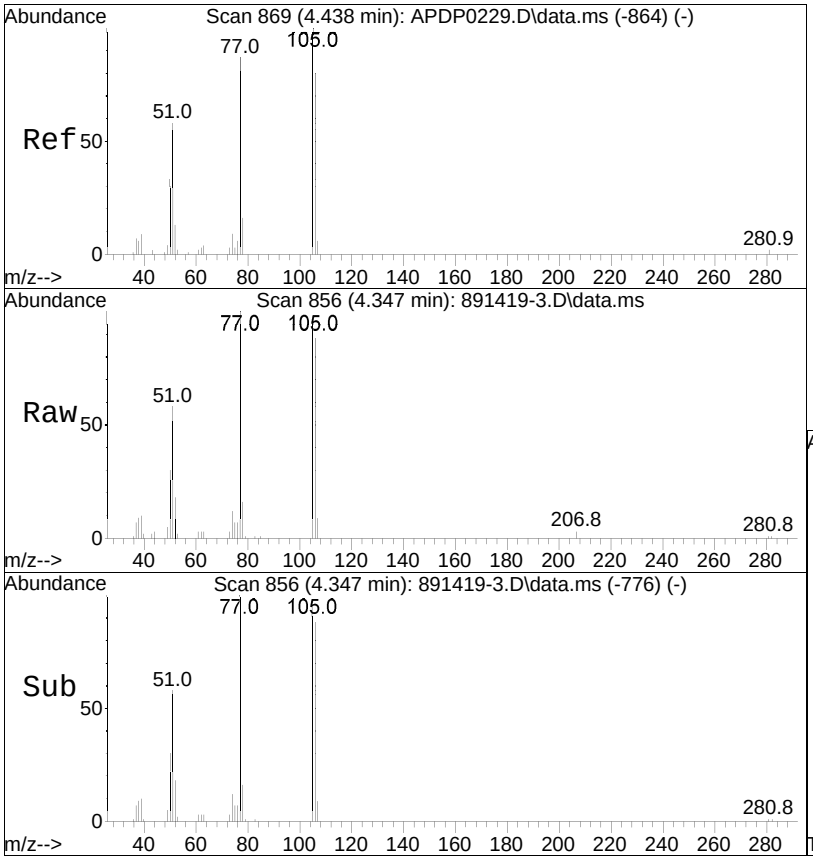


#25
2,4-Dichlorophenol
Concen: 3.27 ug/ml
RT: 5.886 min Scan# 1351
Delta R.T. -0.000 min
Lab File: 891419-3.D
Acq: 2 Mar 2024 4:54 pm

Tgt Ion:162 Resp: 23384

Ion	Ratio	Lower	Upper
162	100		
164	68.8	51.0	76.4
98	29.3	32.2	48.2#

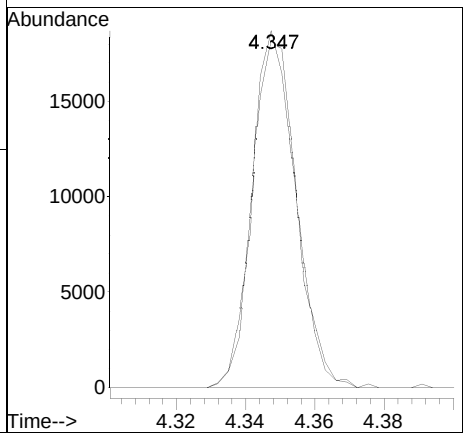


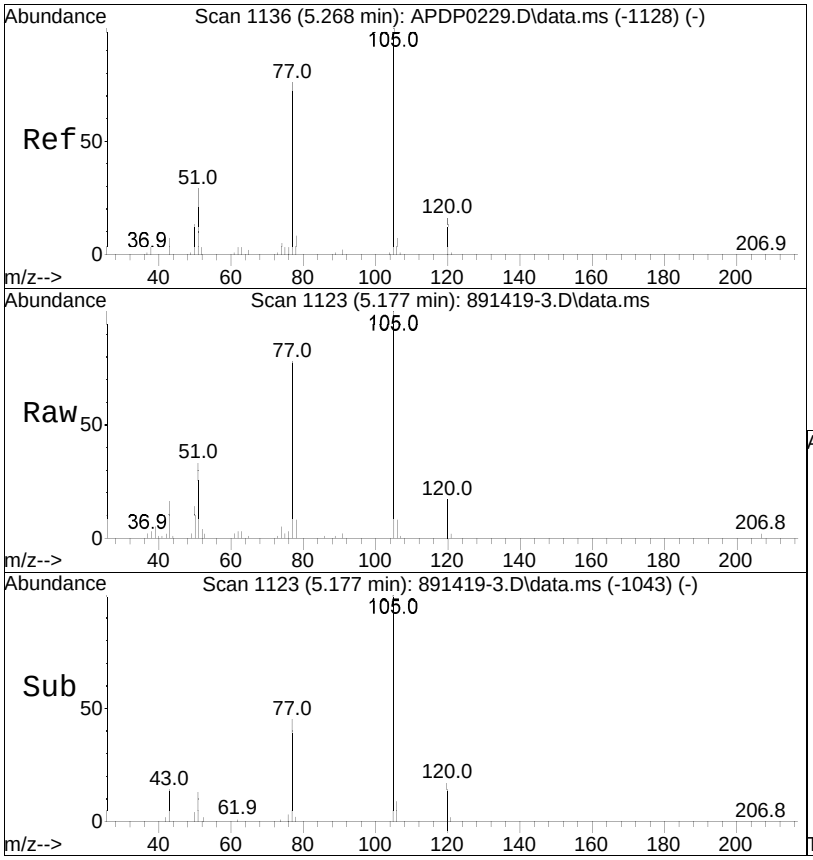


#28
Benzaldehyde
Concen: 5.41 ug/ml
RT: 4.347 min Scan# 856
Delta R.T. 0.000 min
Lab File: 891419-3.D
Acq: 2 Mar 2024 4:54 pm

Tgt Ion:105 Resp: 16244

Ion	Ratio	Lower	Upper
105	100		
77	100.1	82.2	123.4

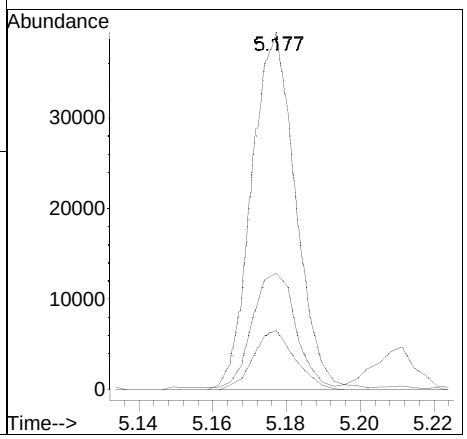


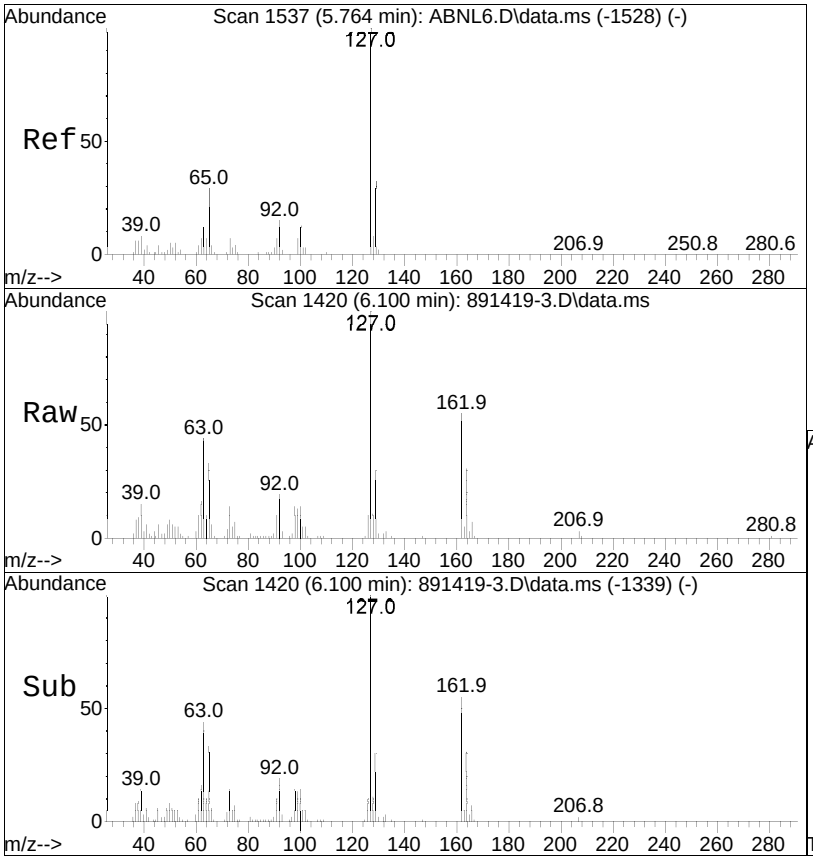


#29
Acetophenone
Concen: 3.08 ug/ml
RT: 5.177 min Scan# 1123
Delta R.T. 0.000 min
Lab File: 891419-3.D
Acq: 2 Mar 2024 4:54 pm

Tgt Ion:105 Resp: 32400

Ion	Ratio	Lower	Upper
105	100		
120	15.9	20.5	30.7#
51	31.6	34.9	52.3#

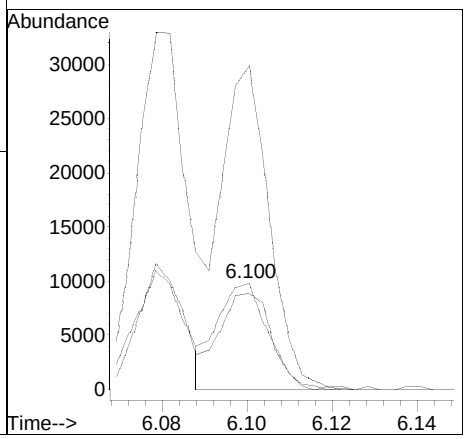


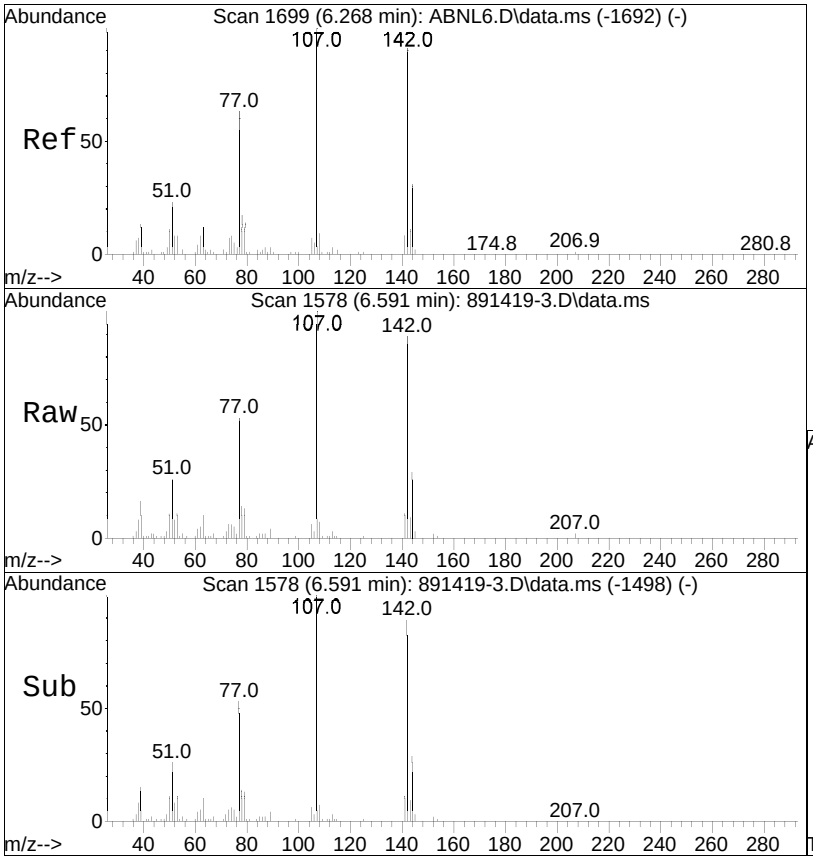


#36
4-Chloroaniline
Concen: 2.89 ug/ml
RT: 6.100 min Scan# 1420
Delta R.T. 0.003 min
Lab File: 891419-3.D
Acq: 2 Mar 2024 4:54 pm

Tgt Ion: 65 Resp: 8217

Ion	Ratio	Lower	Upper
65	100		
127	269.1	237.6	356.4
129	92.8	76.3	114.5

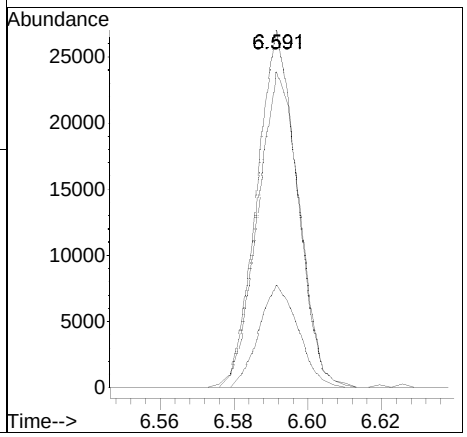


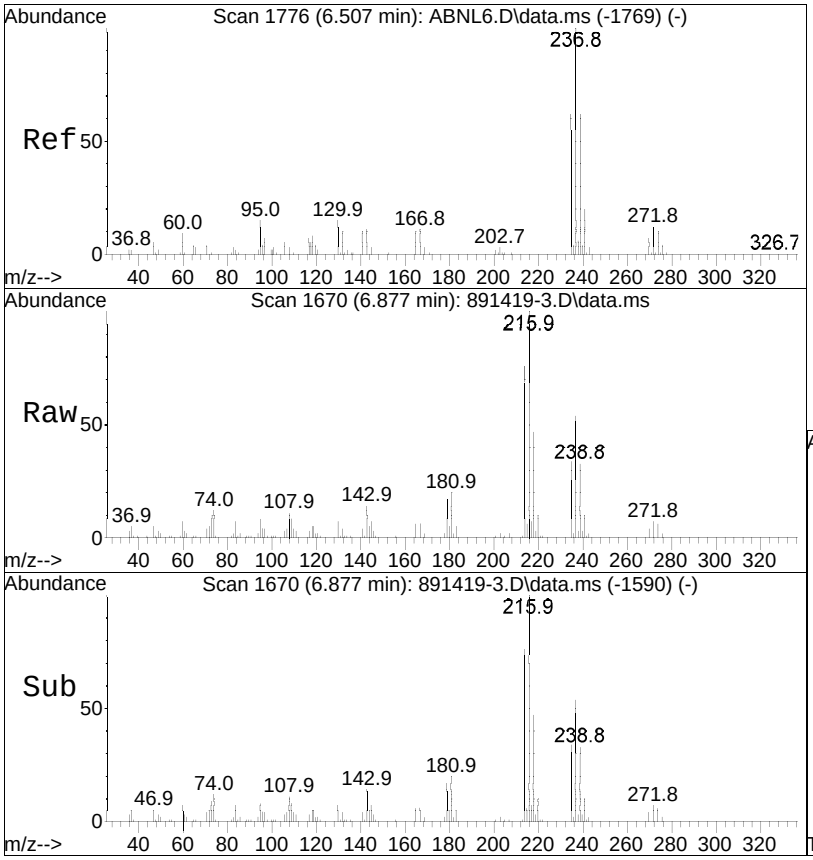


#38
p-Chloro-m-cresol
Concen: 3.26 ug/ml
RT: 6.591 min Scan# 1578
Delta R.T. -0.000 min
Lab File: 891419-3.D
Acq: 2 Mar 2024 4:54 pm

Tgt Ion:107 Resp: 20260

Ion	Ratio	Lower	Upper
107	100		
144	28.2	20.9	31.3
142	91.8	66.1	99.1

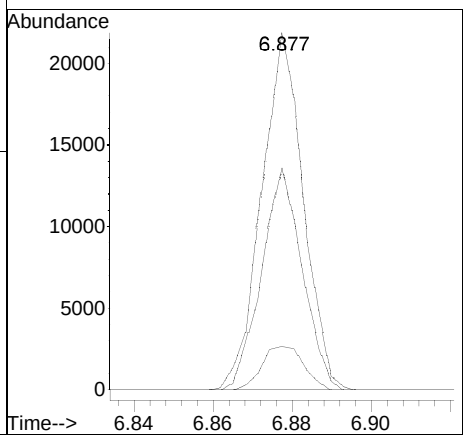


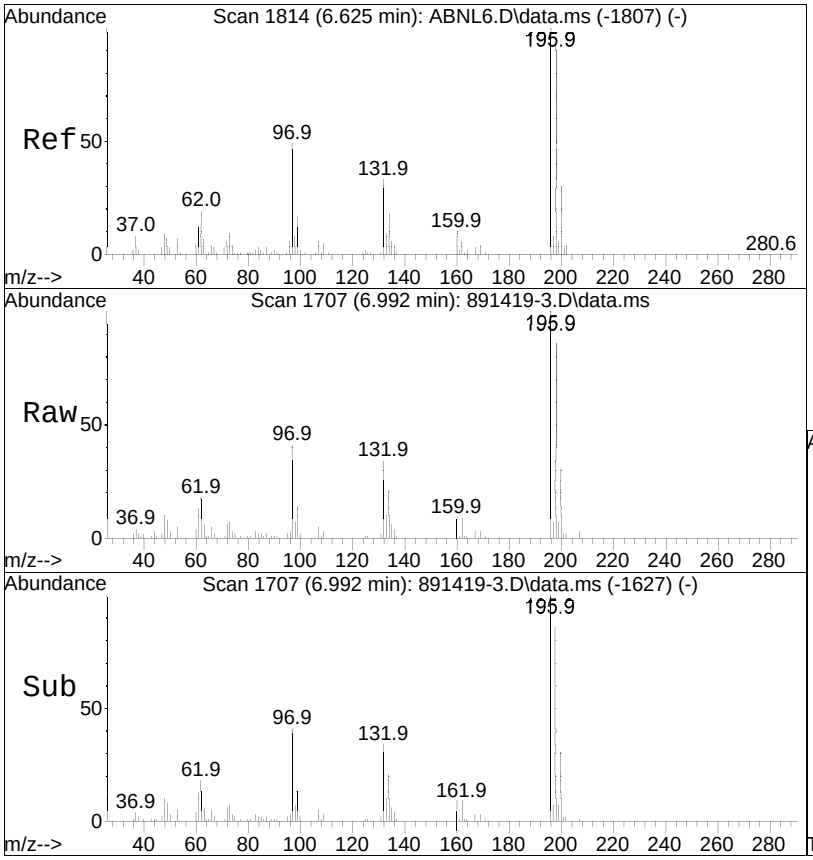


#41
Hexachlorocyclopentadiene
Concen: 3.09 ug/ml
RT: 6.877 min Scan# 1670
Delta R.T. -0.000 min
Lab File: 891419-3.D
Acq: 2 Mar 2024 4:54 pm

Tgt Ion:237 Resp: 15956

Ion	Ratio	Lower	Upper
237	100		
235	60.7	49.7	74.5
272	12.4	9.8	14.6

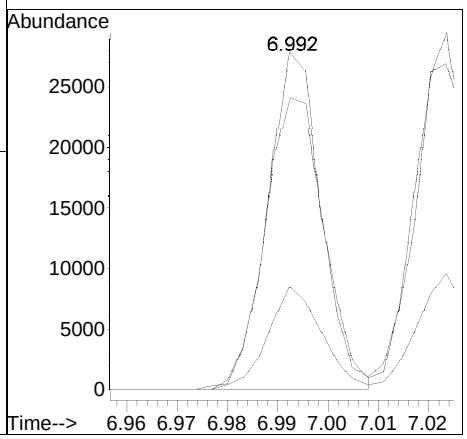


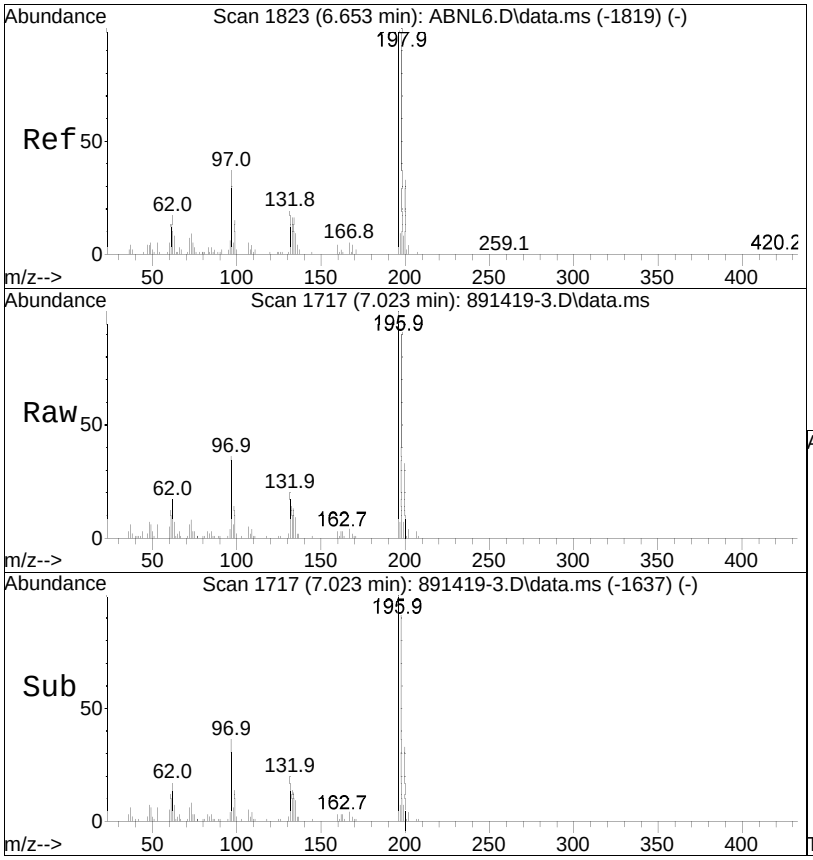


#42
2,4,6-Trichlorophenol
Concen: 3.44 ug/ml
RT: 6.992 min Scan# 1707
Delta R.T. -0.000 min
Lab File: 891419-3.D
Acq: 2 Mar 2024 4:54 pm

Tgt Ion:196 Resp: 20973

Ion	Ratio	Lower	Upper
196	100		
198	92.6	77.5	116.3
200	30.3	23.8	35.6

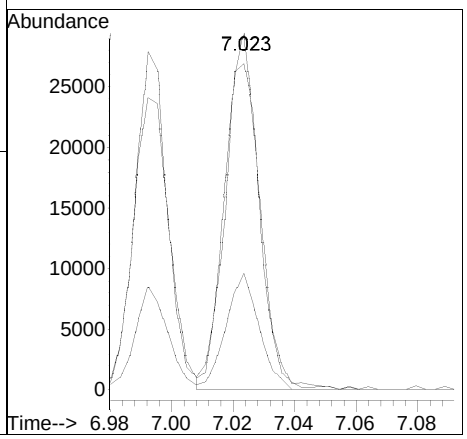


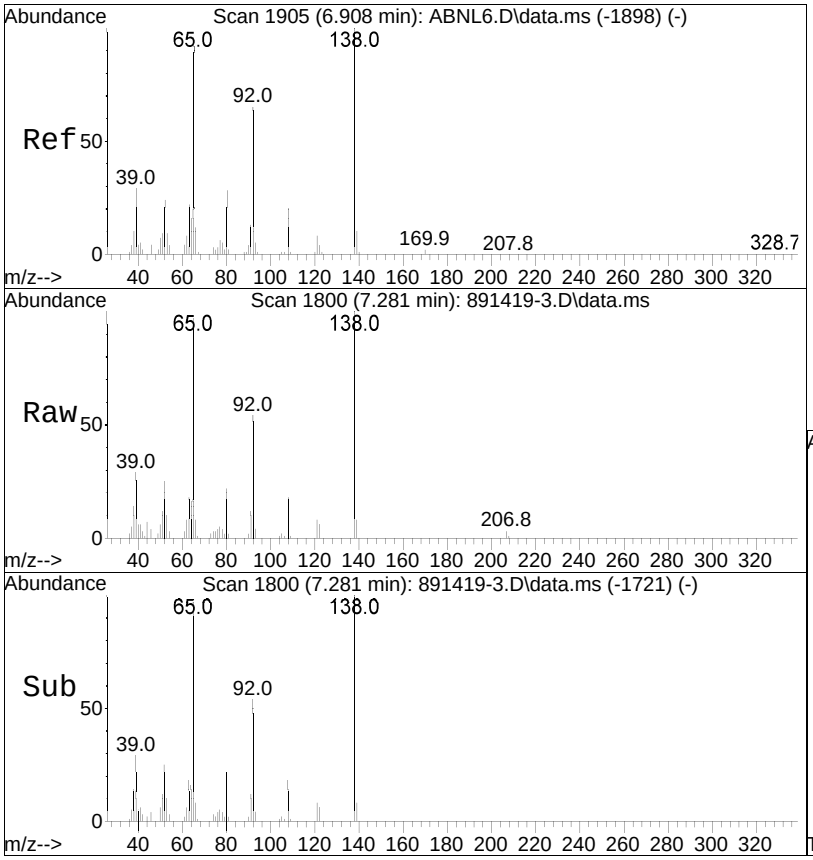


#43
2,4,5-Trichlorophenol
Concen: 3.44 ug/ml
RT: 7.023 min Scan# 1717
Delta R.T. -0.000 min
Lab File: 891419-3.D
Acq: 2 Mar 2024 4:54 pm

Tgt Ion:196 Resp: 22969

Ion	Ratio	Lower	Upper
196	100		
200	31.4	25.4	38.0
198	94.5	78.0	117.0

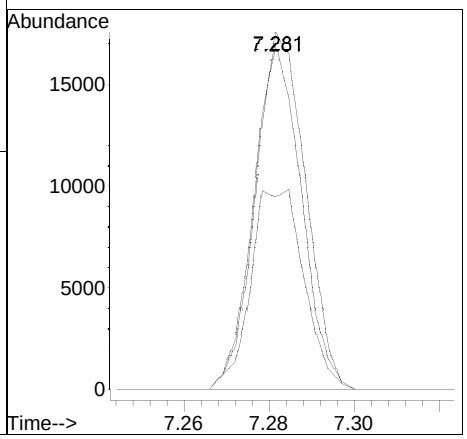


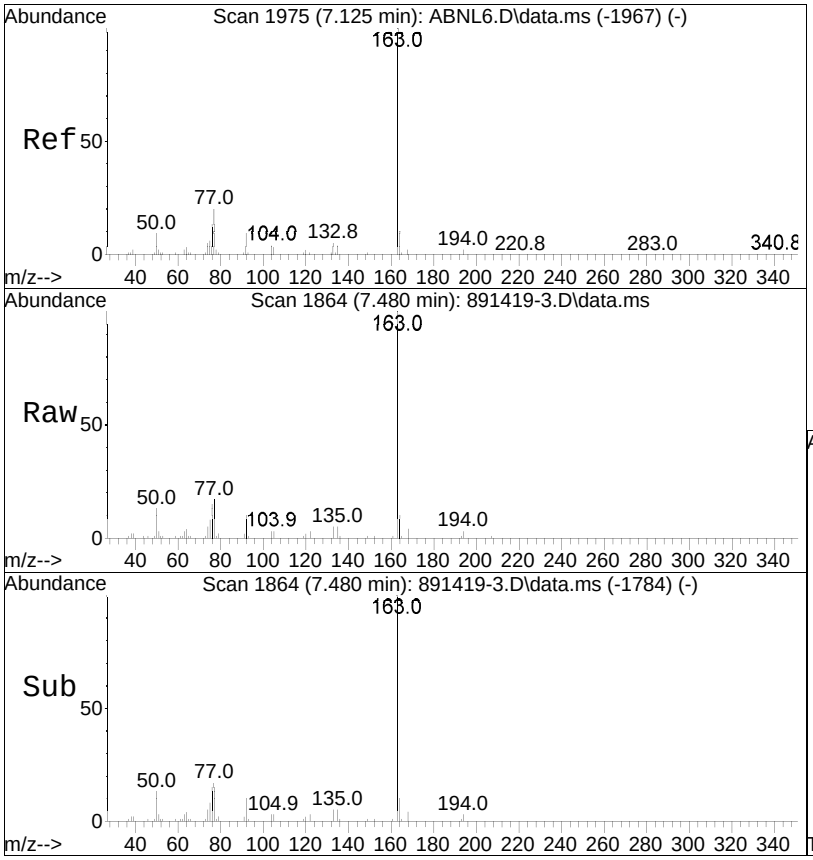


#46
2-Nitroaniline
Concen: 3.27 ug/ml
RT: 7.281 min Scan# 1800
Delta R.T. -0.003 min
Lab File: 891419-3.D
Acq: 2 Mar 2024 4:54 pm

Tgt Ion:138 Resp: 14238

Ion	Ratio	Lower	Upper
138	100		
92	59.8	53.5	80.3
65	92.0	86.3	129.5

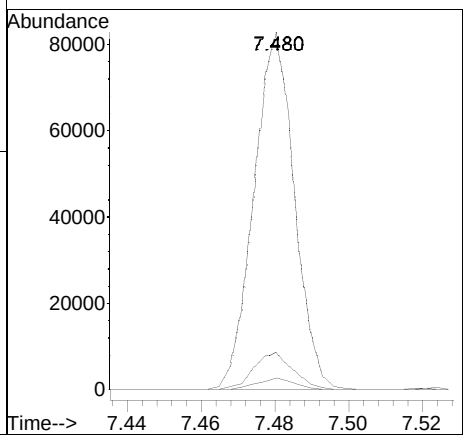


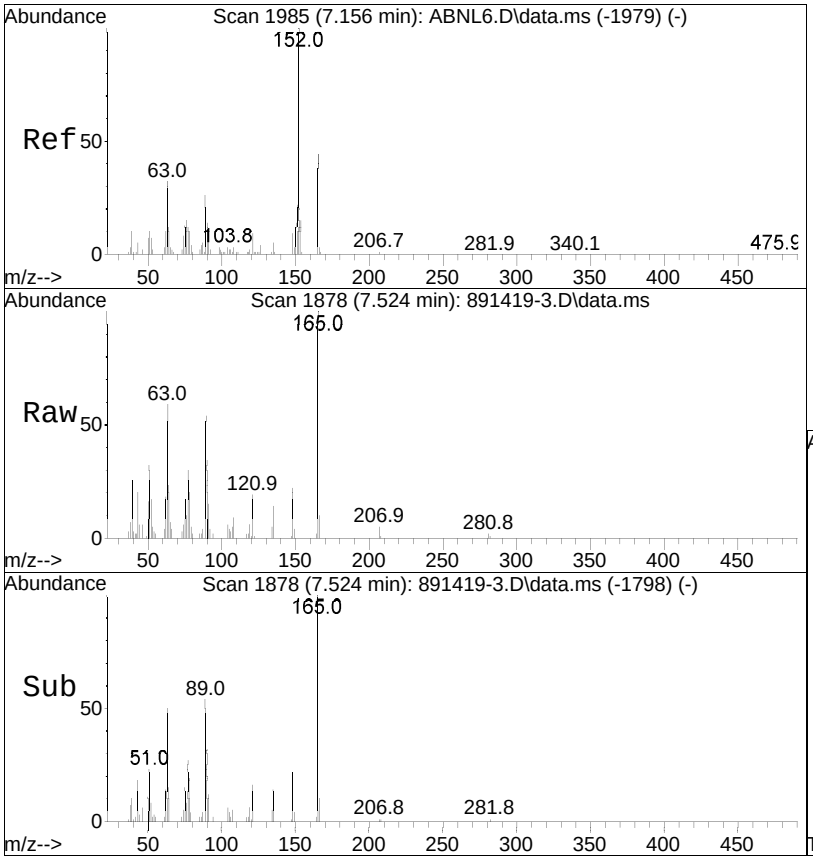


#49
Dimethyl phthalate
Concen: 3.30 ug/ml
RT: 7.480 min Scan# 1864
Delta R.T. -0.000 min
Lab File: 891419-3.D
Acq: 2 Mar 2024 4:54 pm

Tgt Ion:163 Resp: 62345

Ion	Ratio	Lower	Upper
163	100		
194	2.7	3.5	5.3#
164	10.1	7.9	11.9

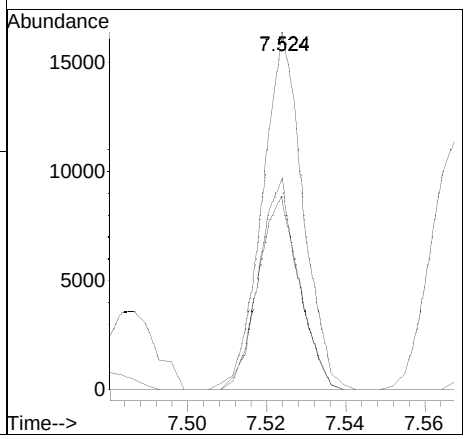


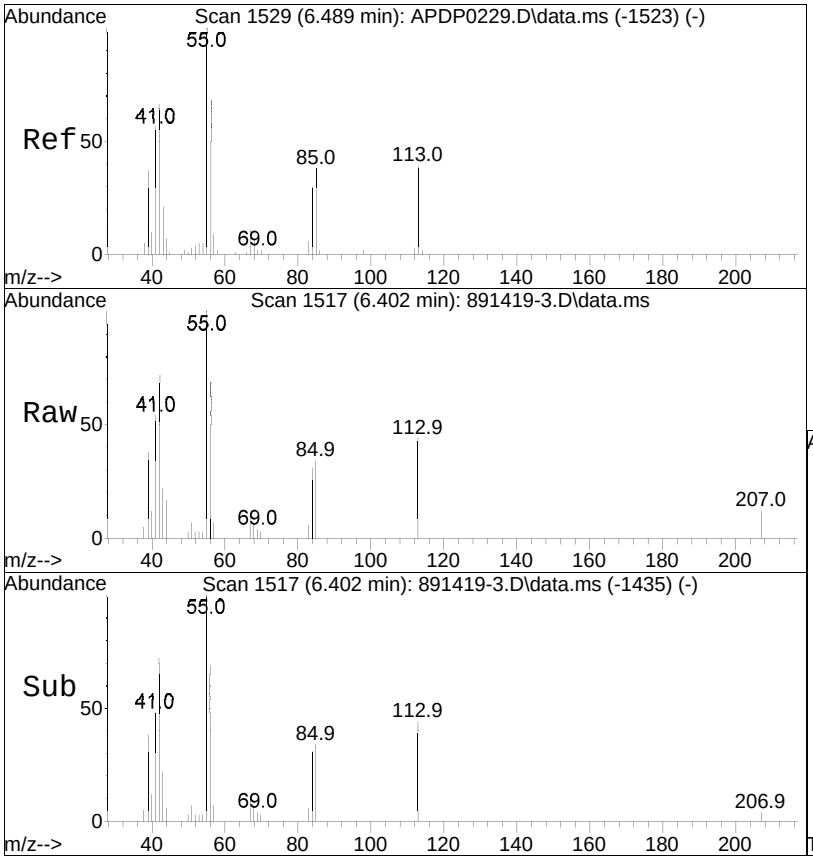


#51
2,6-Dinitrotoluene
Concen: 3.17 ug/ml
RT: 7.524 min Scan# 1878
Delta R.T. -0.000 min
Lab File: 891419-3.D
Acq: 2 Mar 2024 4:54 pm

Tgt Ion:165 Resp: 11724

Ion	Ratio	Lower	Upper
165	100		
89	55.3	54.2	81.2
63	56.9	64.2	96.2#

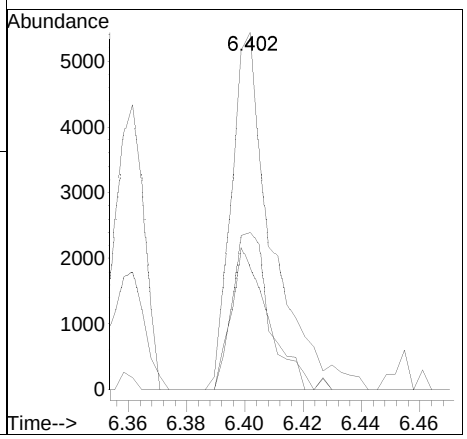


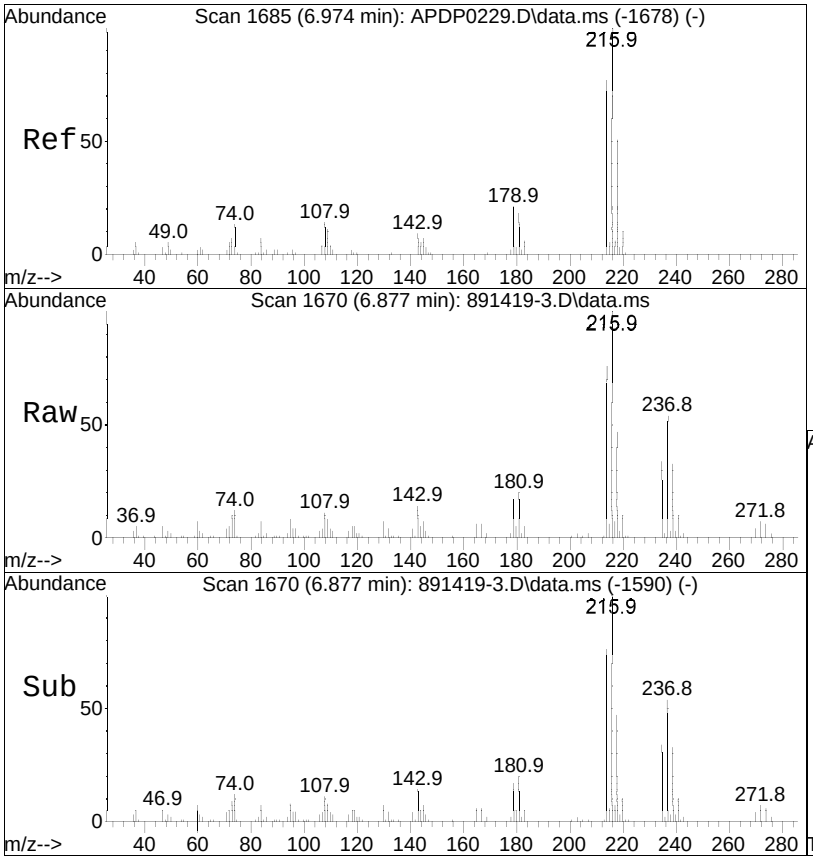


#58
Caprolactam
Concen: 1.46 ug/ml
RT: 6.402 min Scan# 1517
Delta R.T. 0.006 min
Lab File: 891419-3.D
Acq: 2 Mar 2024 4:54 pm

Tgt Ion: 55 Resp: 5290

Ion	Ratio	Lower	Upper
55	100		
85	36.4	19.8	29.6#
113	40.2	29.6	44.4

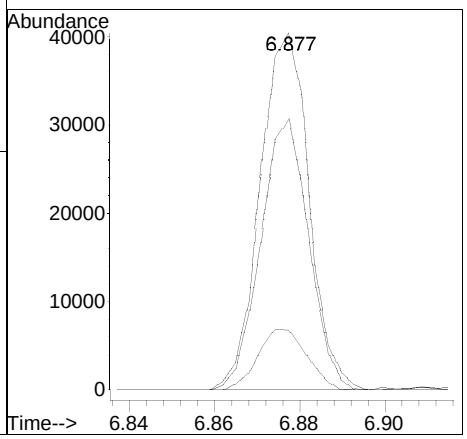


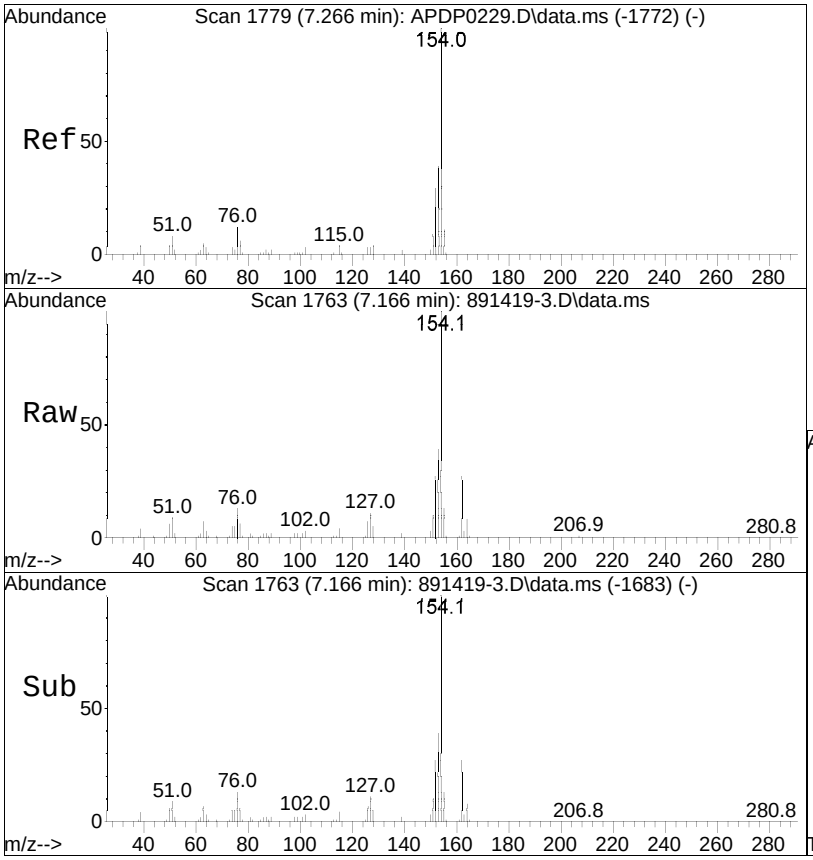


#59
1,2,4,5-Tetrachlorobenzene
Concen: 3.27 ug/ml
RT: 6.877 min Scan# 1670
Delta R.T. 0.000 min
Lab File: 891419-3.D
Acq: 2 Mar 2024 4:54 pm

Tgt Ion:216 Resp: 32109

Ion	Ratio	Lower	Upper
216	100		
214	74.5	63.7	95.5
179	17.1	19.0	28.6#

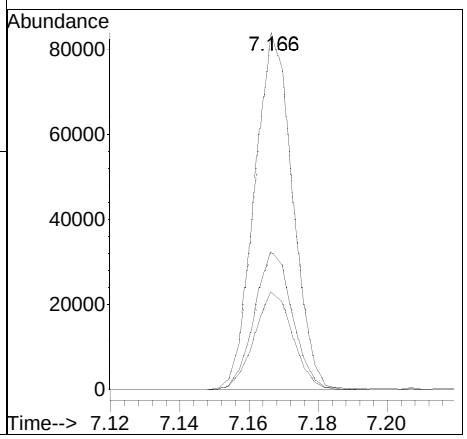


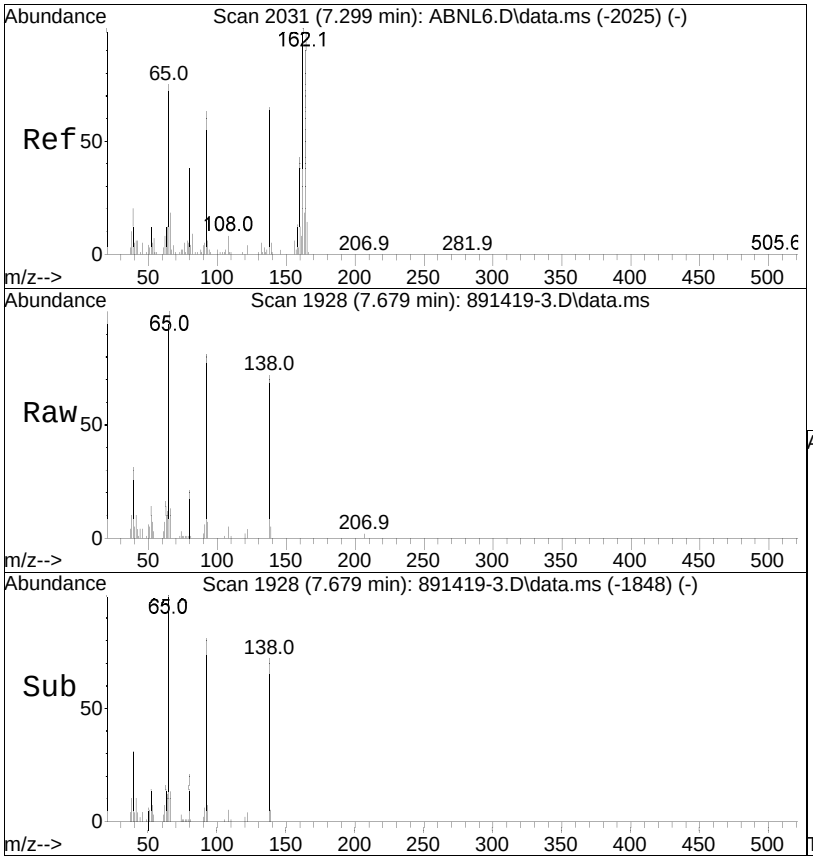


#60
Biphenyl
Concen: 3.27 ug/ml
RT: 7.166 min Scan# 1763
Delta R.T. 0.000 min
Lab File: 891419-3.D
Acq: 2 Mar 2024 4:54 pm

Tgt Ion:154 Resp: 64022

Ion	Ratio	Lower	Upper
154	100		
153	38.9	32.3	48.5
152	28.0	22.5	33.7

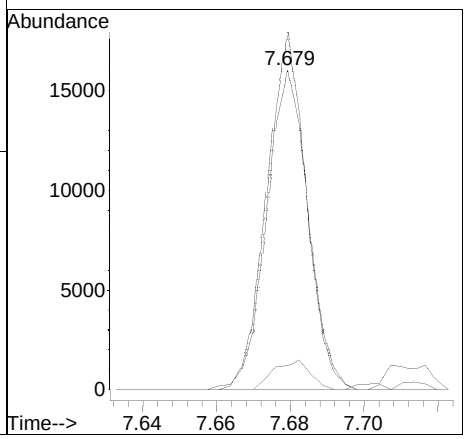


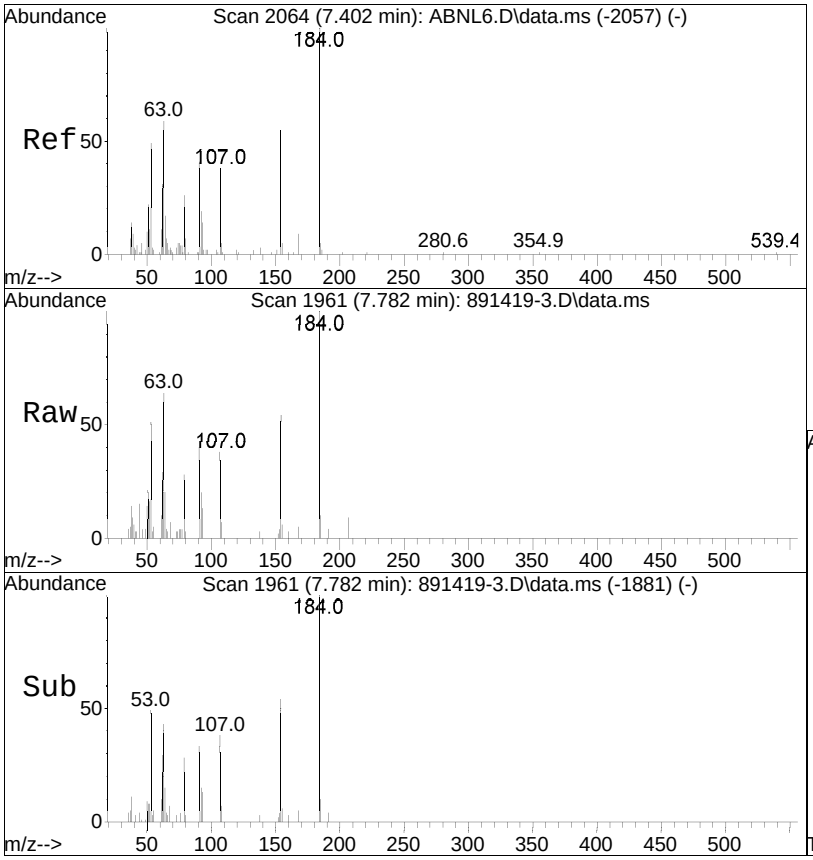


#62
3-Nitroaniline
Concen: 3.00 ug/ml
RT: 7.679 min Scan# 1928
Delta R.T. -0.000 min
Lab File: 891419-3.D
Acq: 2 Mar 2024 4:54 pm

Tgt Ion:138 Resp: 12452

Ion	Ratio	Lower	Upper
138	100		
92	106.2	93.4	140.2
108	8.1	9.5	14.3#

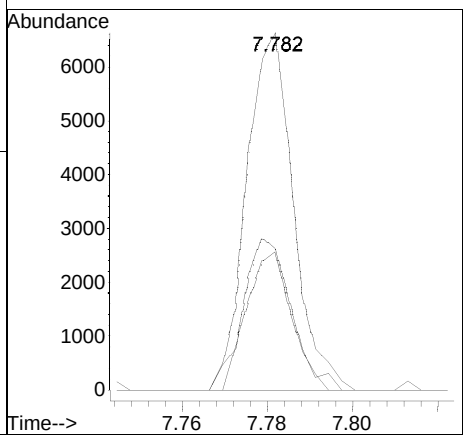


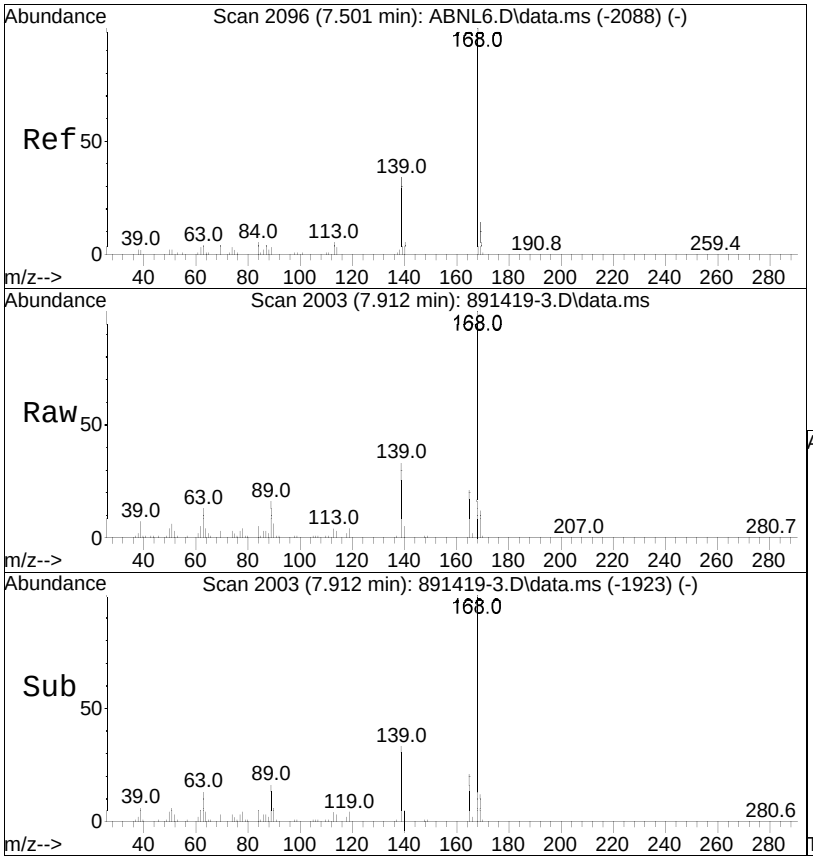


#64
2,4-Dinitrophenol
Concen: 2.68 ug/ml
RT: 7.782 min Scan# 1961
Delta R.T. -0.000 min
Lab File: 891419-3.D
Acq: 2 Mar 2024 4:54 pm

Tgt Ion:184 Resp: 5021

Ion	Ratio	Lower	Upper
184	100		
107	37.2	37.7	56.5#
91	43.9	46.3	69.5#

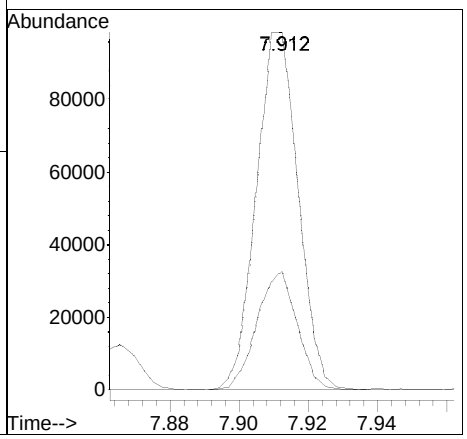


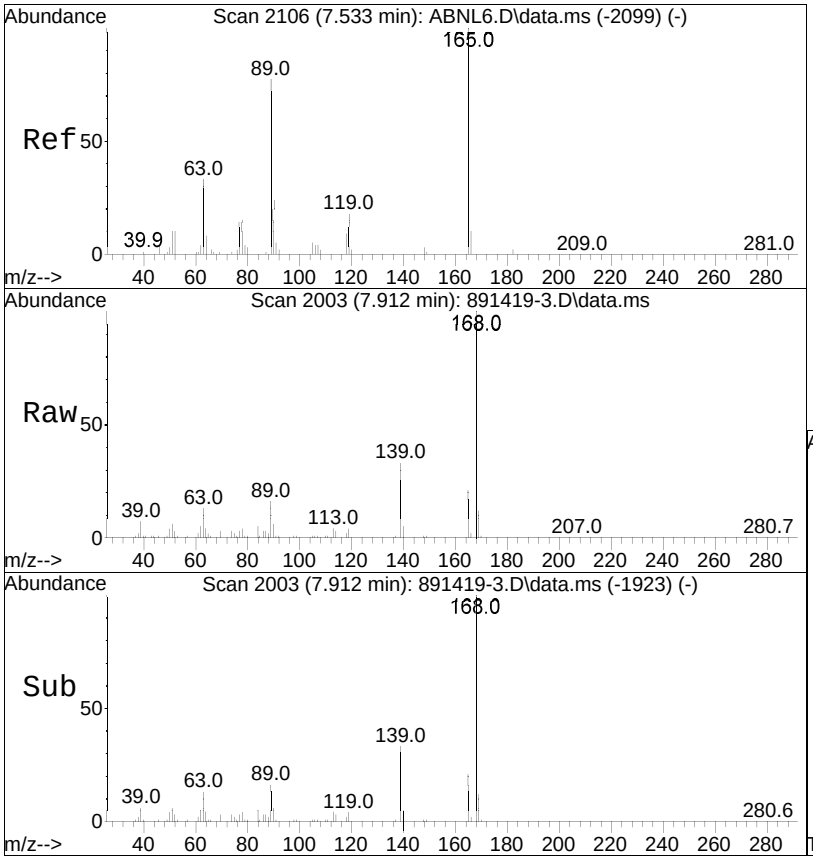


#65
Dibenzofuran
Concen: 3.20 ug/ml
RT: 7.912 min Scan# 2003
Delta R.T. -0.000 min
Lab File: 891419-3.D
Acq: 2 Mar 2024 4:54 pm

Tgt Ion:168 Resp: 82376

Ion	Ratio	Lower	Upper
168	100		
139	32.0	31.4	47.2

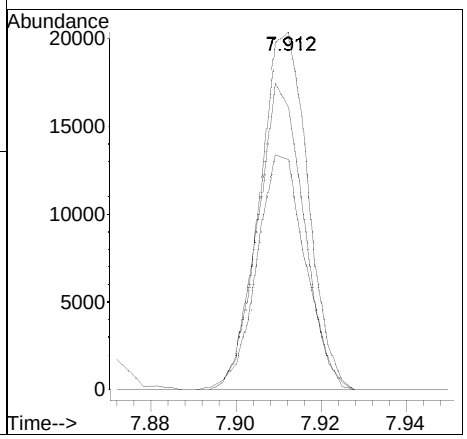


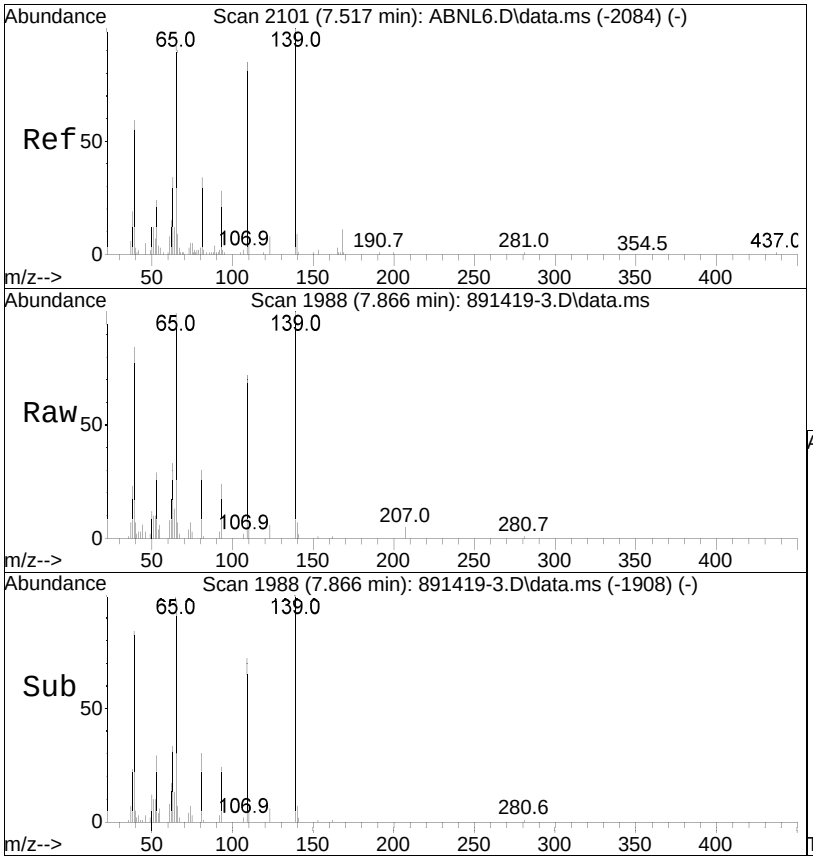


#66
2,4-Dinitrotoluene
Concen: 2.96 ug/ml
RT: 7.912 min Scan# 2003
Delta R.T. -0.000 min
Lab File: 891419-3.D
Acq: 2 Mar 2024 4:54 pm

Tgt Ion:165 Resp: 15907

Ion	Ratio	Lower	Upper
165	100		
89	82.2	72.0	108.0
63	66.7	52.7	79.1

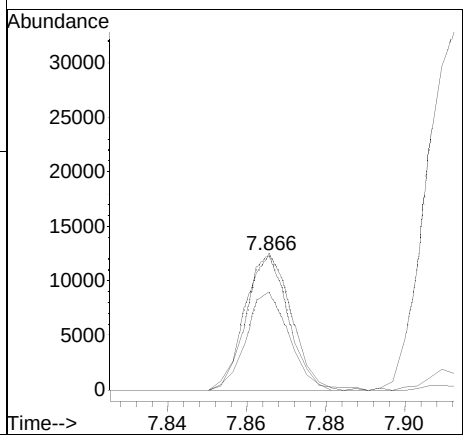


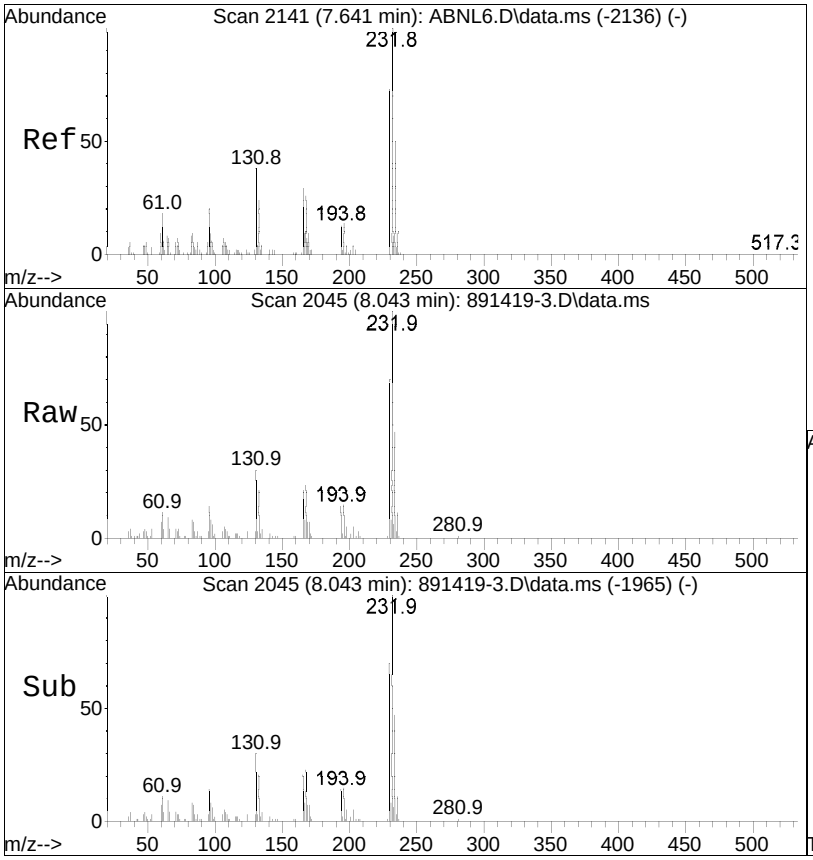


#67
4-Nitrophenol
Concen: 2.79 ug/ml
RT: 7.866 min Scan# 1988
Delta R.T. -0.000 min
Lab File: 891419-3.D
Acq: 2 Mar 2024 4:54 pm

Tgt Ion: 65 Resp: 9557

Ion	Ratio	Lower	Upper
65	100		
109	70.2	47.4	71.2
139	102.2	76.6	115.0

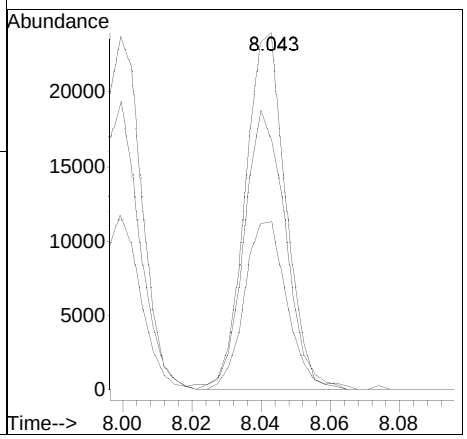


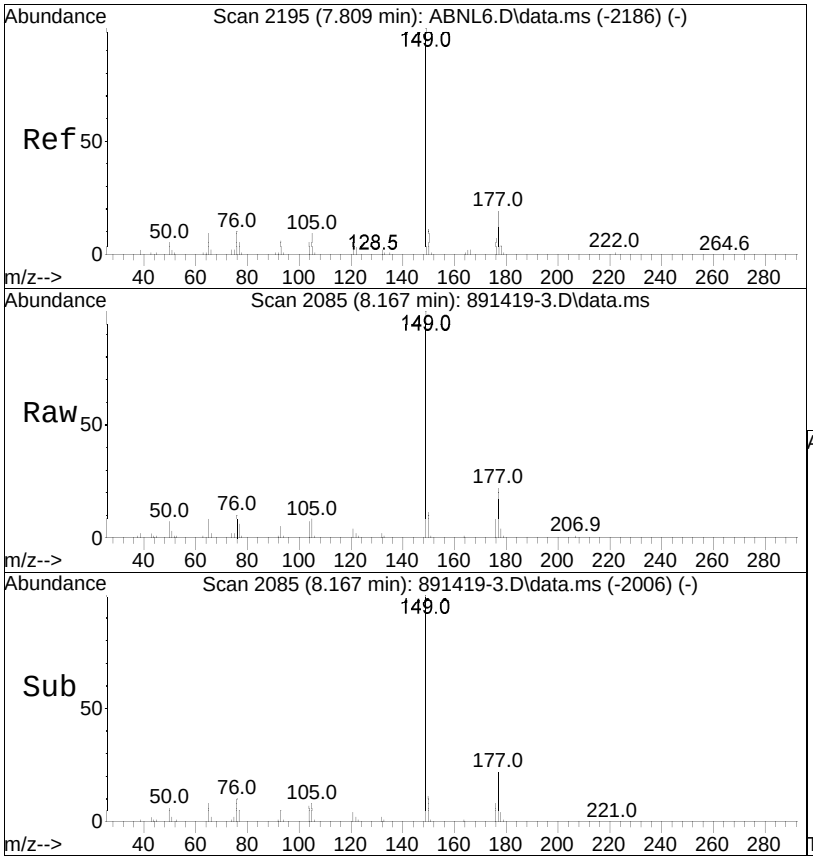


#69
2,3,4,6-Tetrachlorophenol
Concen: 3.39 ug/ml
RT: 8.043 min Scan# 2045
Delta R.T. -0.000 min
Lab File: 891419-3.D
Acq: 2 Mar 2024 4:54 pm

Tgt Ion:232 Resp: 19576

Ion	Ratio	Lower	Upper
232	100		
230	79.7	61.8	92.8
234	49.3	36.2	54.2

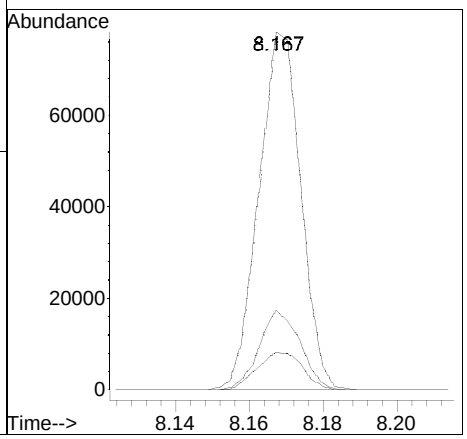


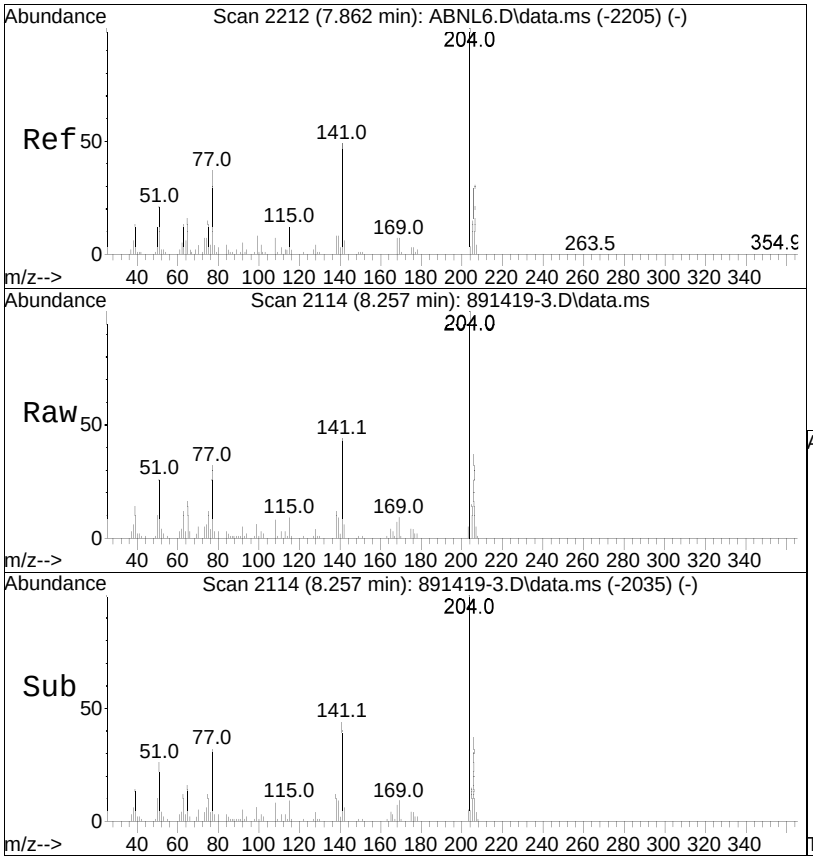


#70
Diethyl phthalate
Concen: 3.13 ug/ml
RT: 8.167 min Scan# 2085
Delta R.T. -0.003 min
Lab File: 891419-3.D
Acq: 2 Mar 2024 4:54 pm

Tgt Ion:149 Resp: 61155

Ion	Ratio	Lower	Upper
149	100		
177	21.7	16.1	24.1
150	11.5	9.4	14.2

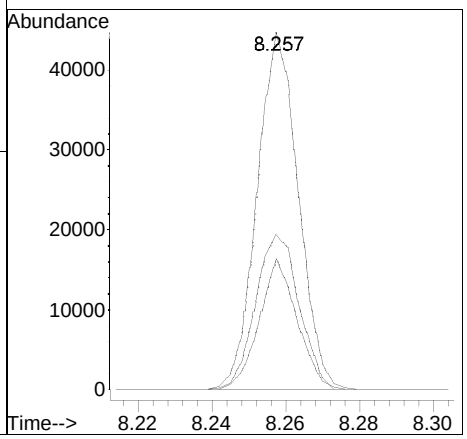


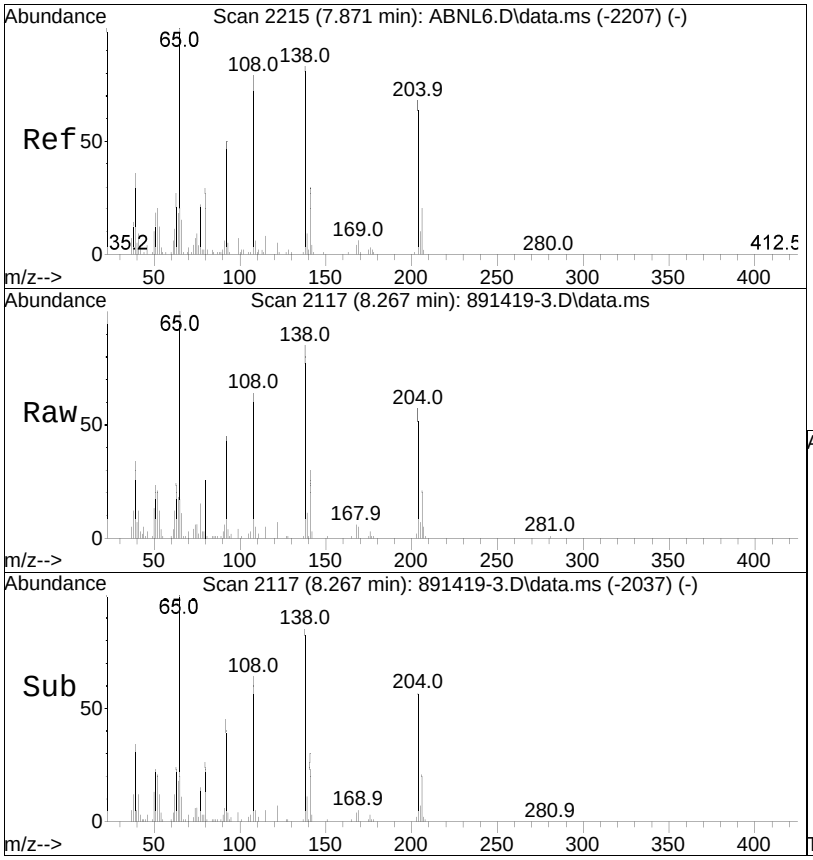


#72
4-Chlorophenyl phenyl ether
Concen: 3.31 ug/ml
RT: 8.257 min Scan# 2114
Delta R.T. -0.003 min
Lab File: 891419-3.D
Acq: 2 Mar 2024 4:54 pm

Tgt Ion:204 Resp: 34346

Ion	Ratio	Lower	Upper
204	100		
206	34.0	25.8	38.6
141	46.1	53.6	80.4#

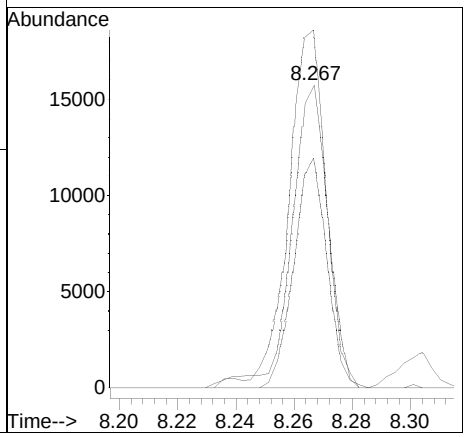


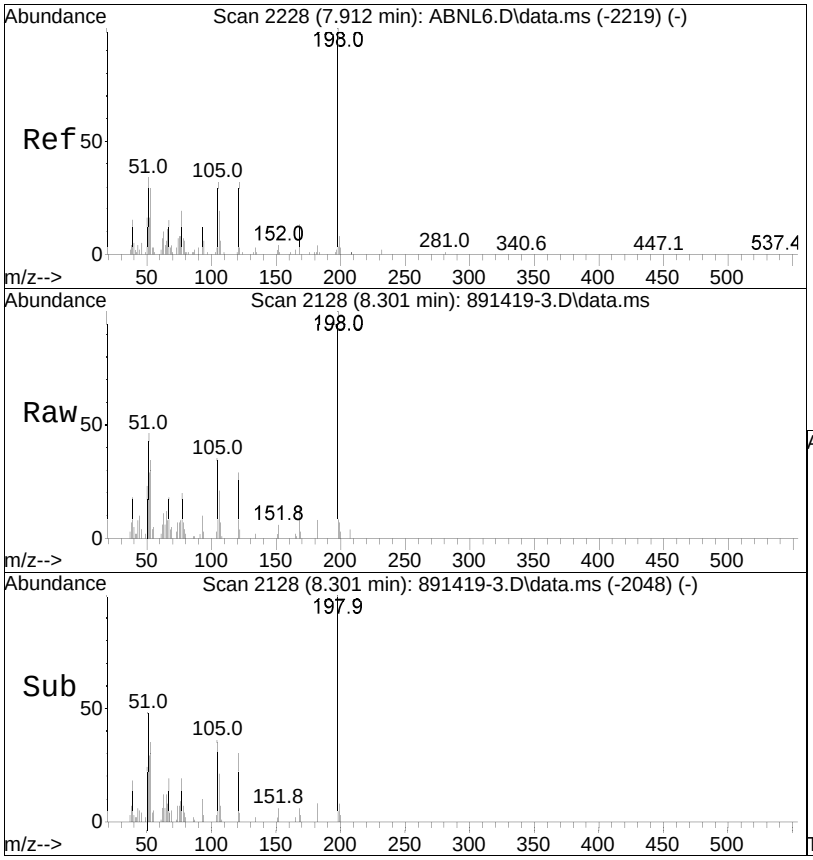


#73
4-Nitroaniline
Concen: 3.33 ug/ml
RT: 8.267 min Scan# 2117
Delta R.T. -0.000 min
Lab File: 891419-3.D
Acq: 2 Mar 2024 4:54 pm

Tgt Ion:138 Resp: 13686

Ion	Ratio	Lower	Upper
138	100		
108	68.7	52.1	78.1
65	122.0	115.0	172.6

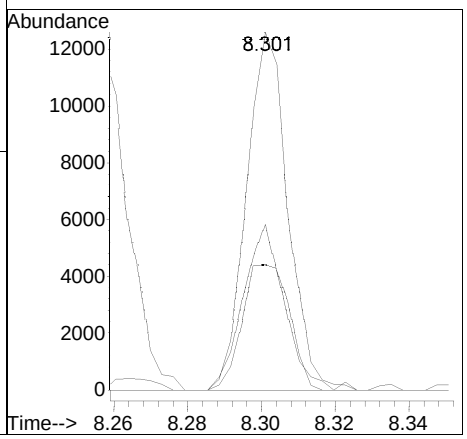


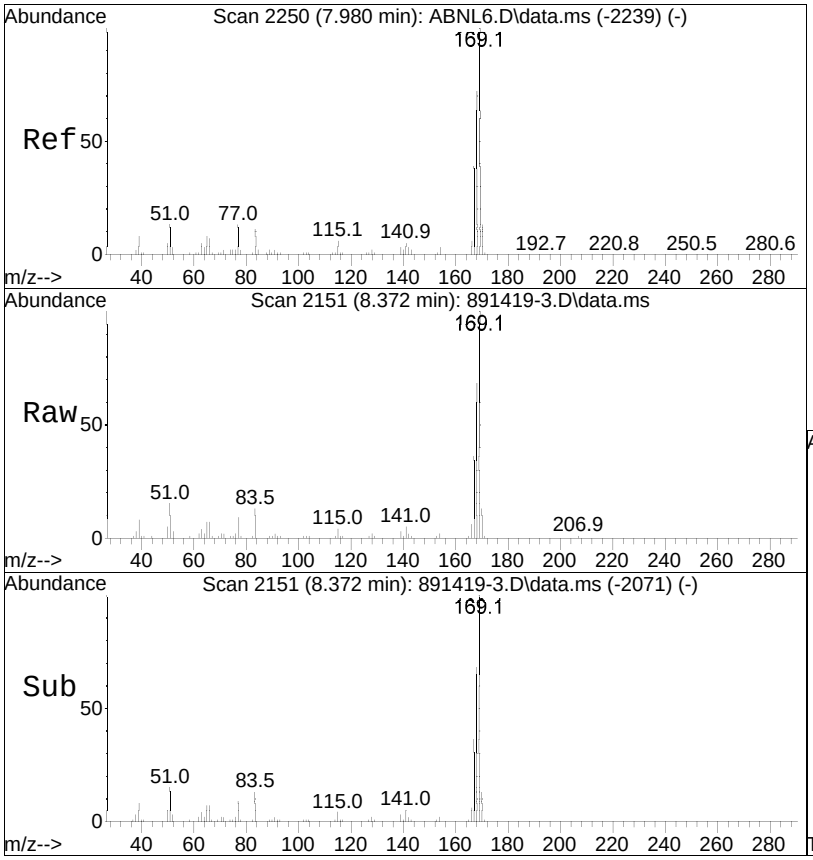


#74
4,6-Dinitro-o-cresol
Concen: 3.32 ug/ml
RT: 8.301 min Scan# 2128
Delta R.T. -0.000 min
Lab File: 891419-3.D
Acq: 2 Mar 2024 4:54 pm

Tgt Ion:198 Resp: 9765

Ion	Ratio	Lower	Upper
198	100		
51	46.3	76.0	114.0#
105	39.9	45.6	68.4#

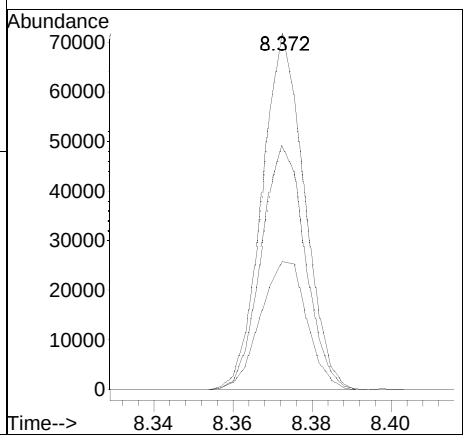


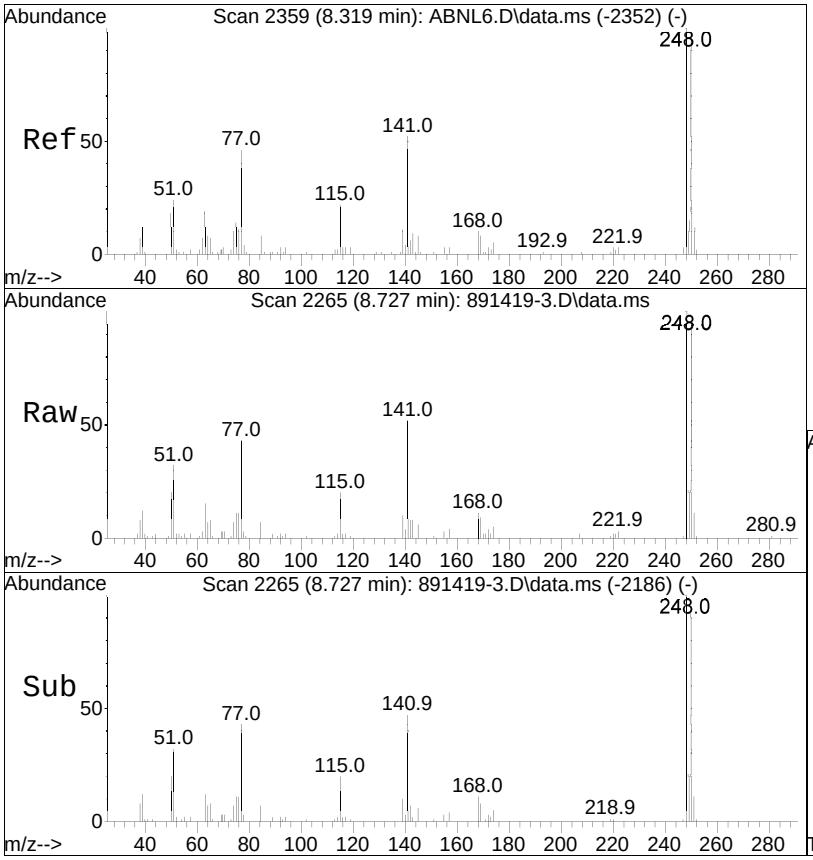


#75
NDPA/DPA
Concen: 3.28 ug/ml
RT: 8.372 min Scan# 2151
Delta R.T. -0.000 min
Lab File: 891419-3.D
Acq: 2 Mar 2024 4:54 pm

Tgt Ion:169 Resp: 53392

Ion	Ratio	Lower	Upper
169	100		
168	71.2	54.0	81.0
167	39.7	28.6	42.8

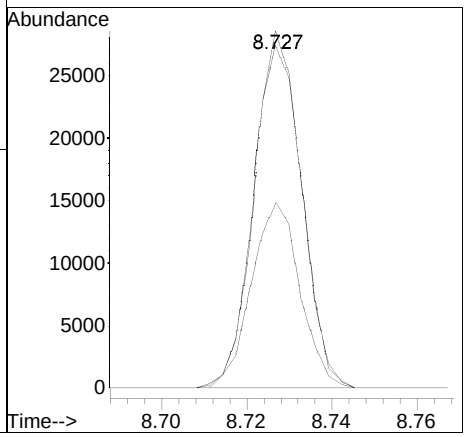


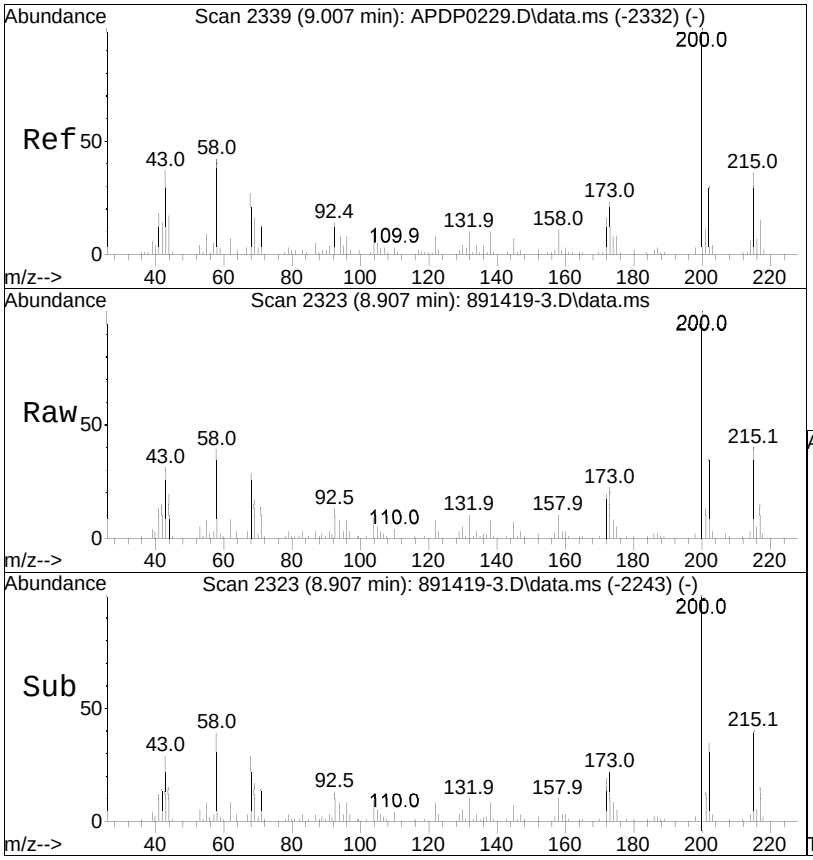


#78
4-Bromophenyl phenyl ether
Concen: 3.32 ug/ml
RT: 8.727 min Scan# 2265
Delta R.T. -0.003 min
Lab File: 891419-3.D
Acq: 2 Mar 2024 4:54 pm

Tgt Ion:248 Resp: 22019

Ion	Ratio	Lower	Upper
248	100		
141	53.6	76.6	114.8#
250	98.6	77.3	115.9

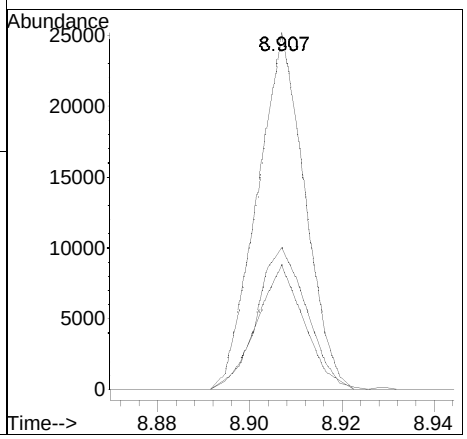


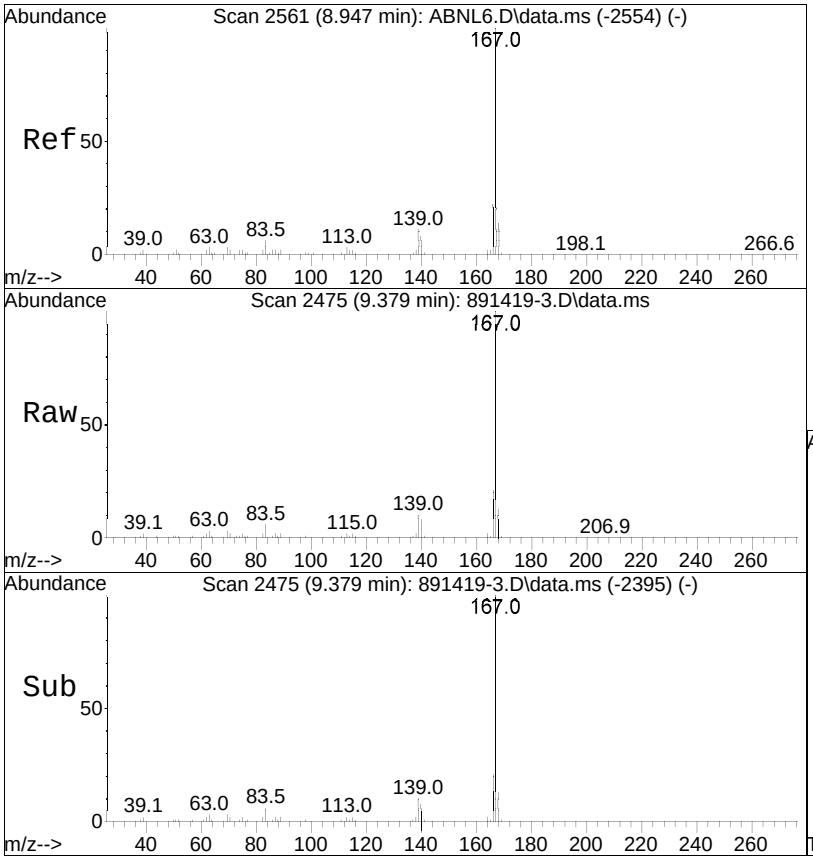


#84
Atrazine
Concen: 3.22 ug/ml
RT: 8.907 min Scan# 2323
Delta R.T. 0.000 min
Lab File: 891419-3.D
Acq: 2 Mar 2024 4:54 pm

Tgt Ion:200 Resp: 17968

Ion	Ratio	Lower	Upper
200	100		
202	35.0	25.8	38.6
215	41.8	40.2	60.4

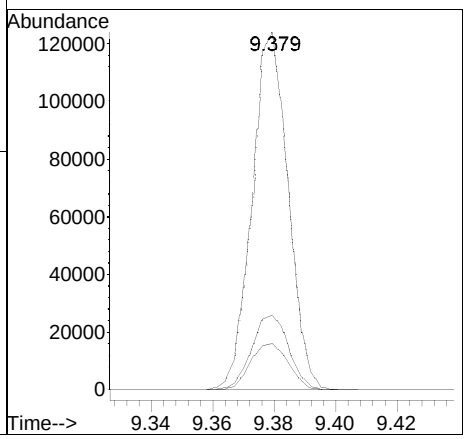


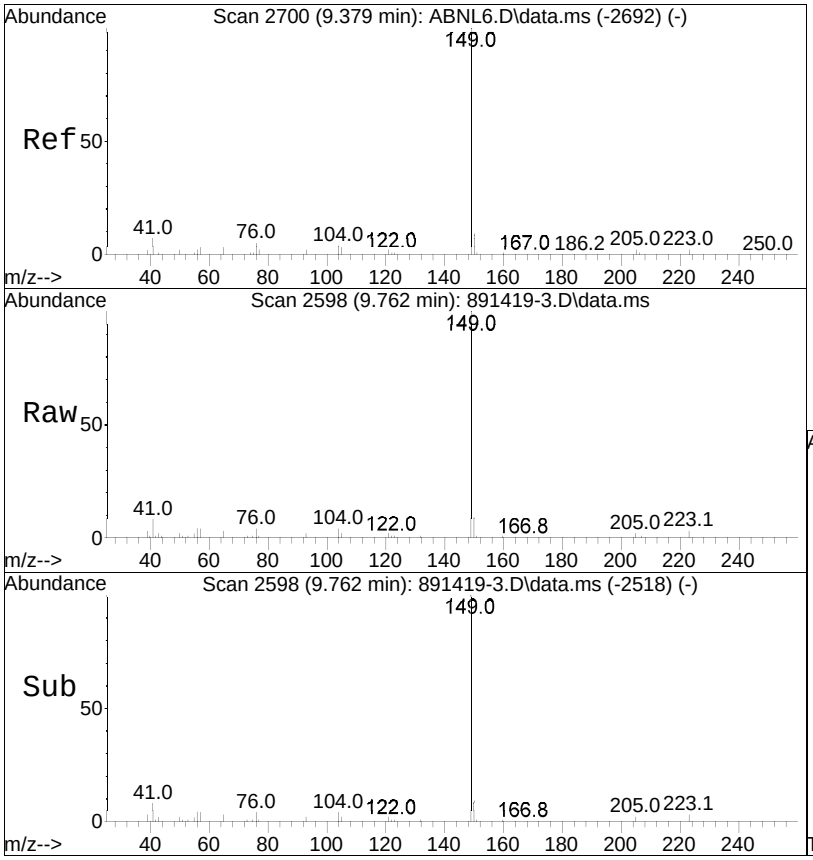


#88
Carbazole
Concen: 3.01 ug/ml
RT: 9.379 min Scan# 2475
Delta R.T. -0.000 min
Lab File: 891419-3.D
Acq: 2 Mar 2024 4:54 pm

Tgt Ion:167 Resp: 100034

Ion	Ratio	Lower	Upper
167	100		
168	13.9	10.6	15.8
166	21.7	17.4	26.0

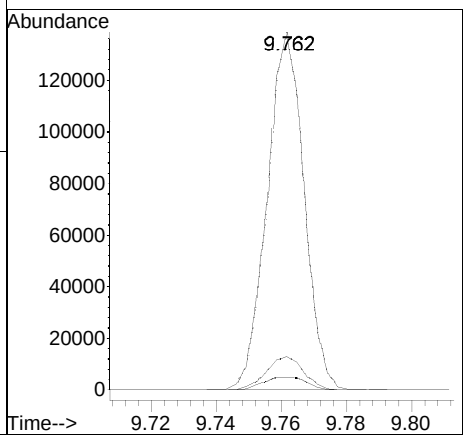


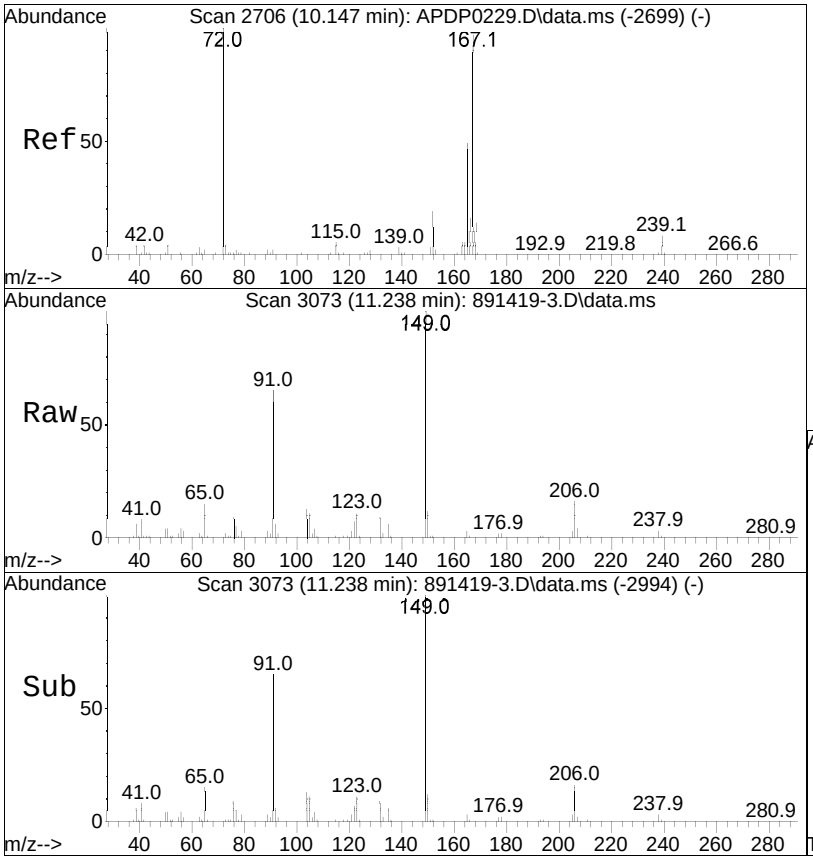


#89
Di-n-butylphthalate
Concen: 2.92 ug/ml
RT: 9.762 min Scan# 2598
Delta R.T. -0.000 min
Lab File: 891419-3.D
Acq: 2 Mar 2024 4:54 pm

Tgt Ion:149 Resp: 107637

Ion	Ratio	Lower	Upper
149	100		
150	9.5	7.0	10.6
104	4.1	4.5	6.7#

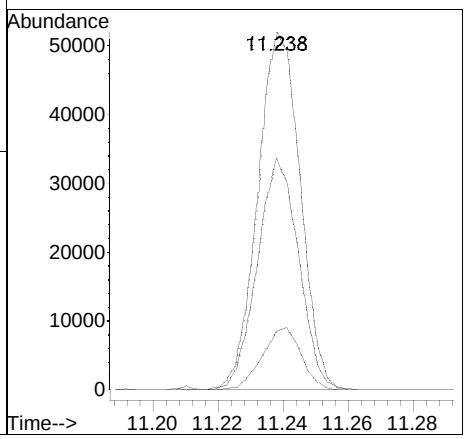


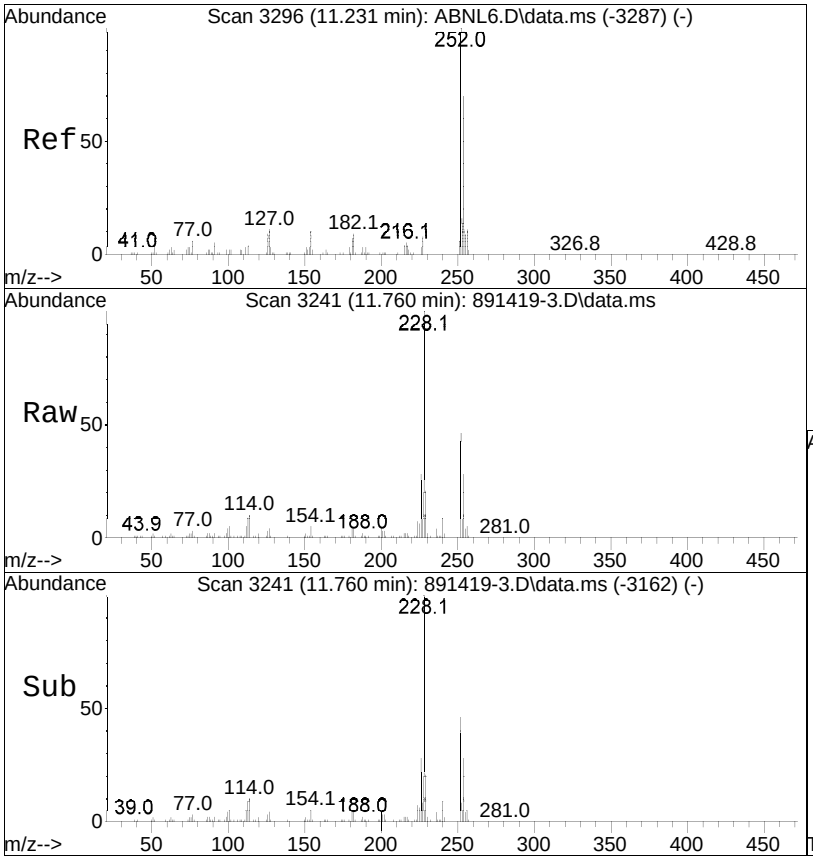


#94
Butyl benzyl phthalate
Concen: 2.87 ug/ml
RT: 11.238 min Scan# 3073
Delta R.T. -0.003 min
Lab File: 891419-3.D
Acq: 2 Mar 2024 4:54 pm

Tgt Ion:149 Resp: 46561

Ion	Ratio	Lower	Upper
149	100		
91	63.4	63.3	94.9
206	16.1	13.9	20.9

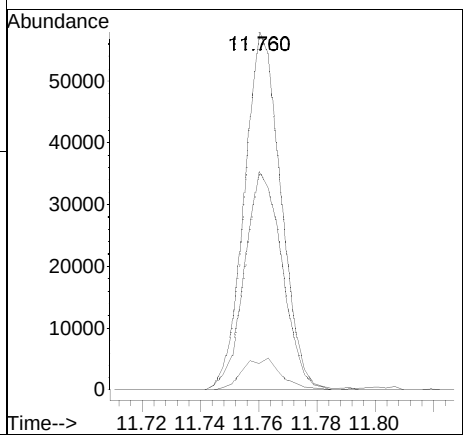


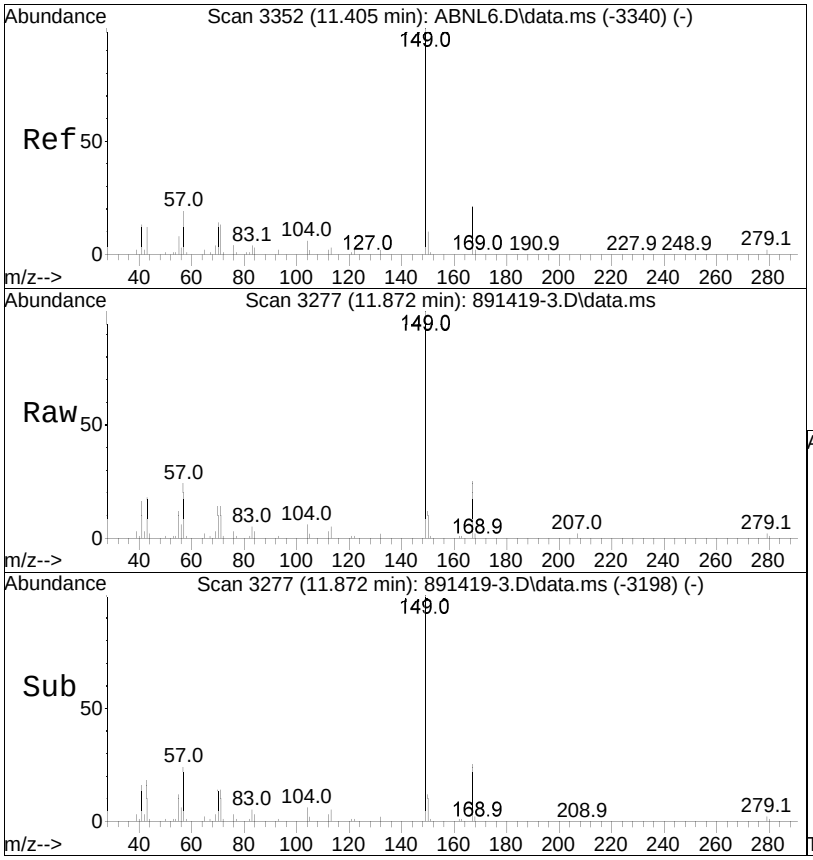


#102
3,3'-Dichlorobenzidine
Concen: 2.74 ug/ml
RT: 11.760 min Scan# 3241
Delta R.T. -0.003 min
Lab File: 891419-3.D
Acq: 2 Mar 2024 4:54 pm

Tgt Ion:252 Resp: 50089

Ion	Ratio	Lower	Upper
252	100		
126	9.2	14.5	21.7#
254	63.1	51.2	76.8

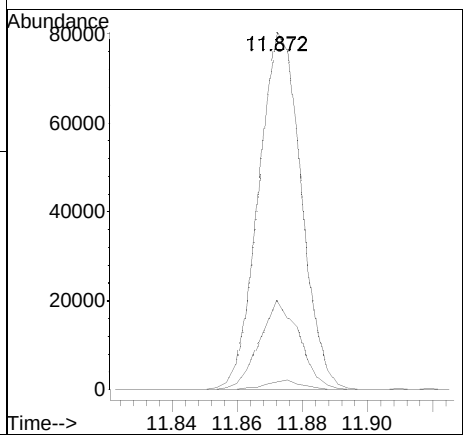


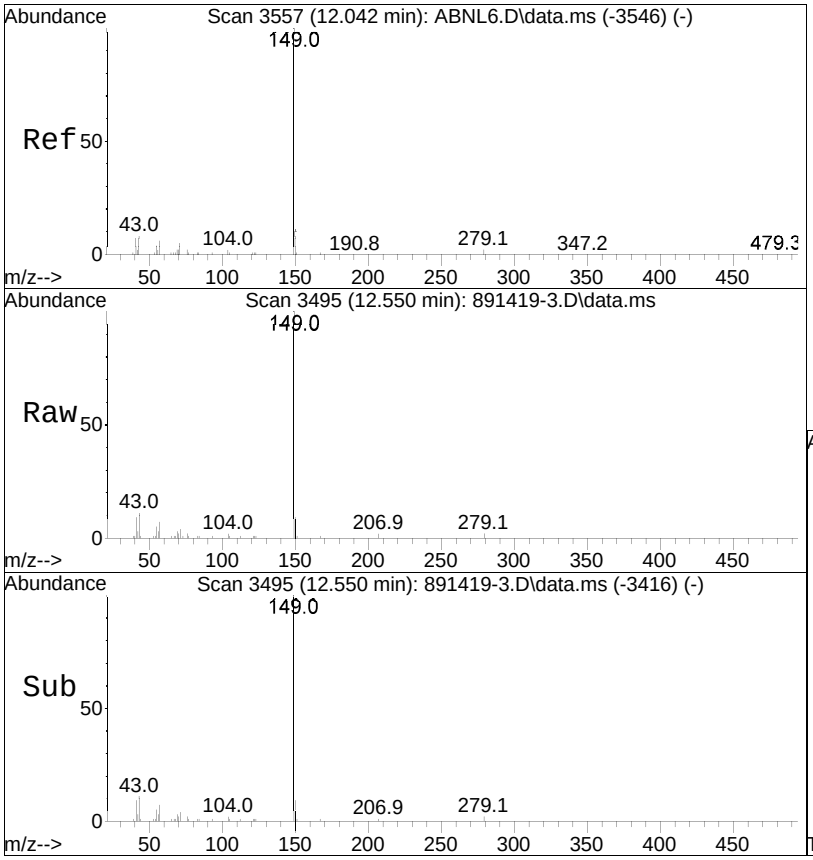


#104
Bis(2-ethylhexyl)phthalate
Concen: 2.81 ug/ml
RT: 11.872 min Scan# 3277
Delta R.T. -0.003 min
Lab File: 891419-3.D
Acq: 2 Mar 2024 4:54 pm

Tgt Ion:149 Resp: 72605

Ion	Ratio	Lower	Upper
149	100		
167	23.4	22.1	33.1
279	2.0	3.0	4.4#

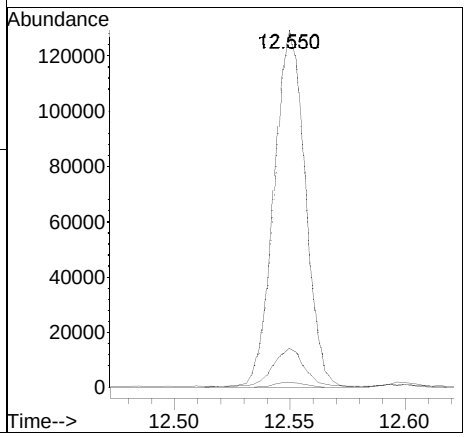




#105
Di-n-octylphthalate
Concen: 2.93 ug/ml
RT: 12.550 min Scan# 3495
Delta R.T. -0.003 min
Lab File: 891419-3.D
Acq: 2 Mar 2024 4:54 pm

Tgt Ion:149 Resp: 120857

Ion	Ratio	Lower	Upper
149	100		
43	10.8	18.8	28.2#
167	1.3	1.3	1.9



Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240304nlvi\
Data File : 892048-3.D
Acq On : 5 Mar 2024 5:43 am
Operator : SV106:ljg
Sample : WG1892048-3,32,,gmr
Misc : WG1891342,WG1892048,ical20337
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Mar 05 13:23:08 2024
Quant Method : I:\8270\SV106\240304nlvi\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Mar 05 11:20:52 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv106\240304nlvi\ABN0304n.D
: 2 - I:\8270\sv106\240304nlvi\ADP0304n.D
: 3 - I:\8270\sv106\240304nlvi\AP90304n.D
Sub List : 8270TCL_REV2 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) IS1_1,4-Dichlorobenzen...	6.325	152	48780	4.000	ug/ml		0.00
Standard Area 1 = 44264			Recovery = 110.20%				
27) IS2_1,4-Dichlorobenzen...	6.325	152	48780	4.000	ug/ml		0.00
Standard Area 3 = 45624			Recovery = 106.92%				
32) IS3_1,4-Dichlorobenzen...	6.325	152	48780	4.000	ug/ml		0.00
Standard Area 2 = 44909			Recovery = 108.62%				
34) IS1_Naphthalene-d8	7.760	136	184777	4.000	ug/ml	#	0.00
Standard Area 1 = 170941			Recovery = 108.09%				
54) IS2_Naphthalene-d8	7.760	136	184777	4.000	ug/ml	#	0.00
Standard Area 3 = 165553			Recovery = 111.61%				
62) IS1_Acenaphthene-d10	9.524	164	109622	4.000	ug/ml		0.00
Standard Area 1 = 107442			Recovery = 102.03%				
82) IS2_Acenaphthene-d10	9.524	164	109622	4.000	ug/ml		0.00
Standard Area 3 = 100303			Recovery = 109.29%				
85) IS3_Acenaphthene-d10	9.524	164	109622	4.000	ug/ml		0.00
Standard Area 2 = 98087			Recovery = 111.76%				
87) IS1_Phenanthrene-d10	10.960	188	202176	4.000	ug/ml		0.00
Standard Area 1 = 227092			Recovery = 89.03%				
99) IS3_Phenanthrene-d10	10.960	188	202176	4.000	ug/ml		0.00
Standard Area 2 = 217156			Recovery = 93.10%				
103) IS1_Chrysene-d12	13.577	240	144486	4.000	ug/ml		0.00
Standard Area 1 = 207444			Recovery = 69.65%				
112) IS1_Perylene-d12	15.042	264	159812	4.000	ug/ml		0.00
Standard Area 1 = 227846			Recovery = 70.14%				
System Monitoring Compounds							
4) 2-Fluorophenol	4.348	112	39934	2.935	ug/ml		0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 58.70%				
7) Phenol-d6	5.960	99	47187	2.692	ug/ml		0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 53.84%				
19) Nitrobenzene-d5	6.989	82	30860	1.942	ug/ml		0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 77.68%				
45) 2-Fluorobiphenyl	8.889	172	65789	1.865	ug/ml		0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 74.60%				
78) 2,4,6-Tribromophenol	10.289	330	18083	3.595	ug/ml		0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 71.90%				

Data Path : I:\8270\SV106\240304nlvi\
Data File : 892048-3.D
Acq On : 5 Mar 2024 5:43 am
Operator : SV106:ljg
Sample : WG1892048-3,32,,gmr
Misc : WG1891342,WG1892048,ical20337
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Mar 05 13:23:08 2024
Quant Method : I:\8270\SV106\240304nlvi\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Mar 05 11:20:52 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv106\240304nlvi\ABN0304n.D
: 2 - I:\8270\sv106\240304nlvi\ADP0304n.D
: 3 - I:\8270\sv106\240304nlvi\AP90304n.D
Sub List : 8270TCL_REV2 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
95) 4-Terphenyl-d14	12.542	244	73981	1.668	ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 66.72%			
Target Compounds						Qvalue
6) 2-Chlorophenol	6.060	128	57064	3.673	ug/ml	93
8) Phenol	5.978	94	49386	2.663	ug/ml	96
9) Bis(2-chloroethyl)ether	6.048	93	53233	3.573	ug/ml#	80
14) Bis(2-chloroisopropyl)...	6.719	45	86978	3.963	ug/ml#	61
15) 2-Methylphenol	6.719	108	46944	3.384	ug/ml	99
17) n-Nitrosodi-n-propylamine	6.872	70	41969	3.727	ug/ml	94
18) 3-Methylphenol/4-Methy...	6.907	108	53278	3.661	ug/ml	94
20) Nitrobenzene	7.013	77	59406	3.762	ug/ml	99
21) Isophorone	7.295	82	109445	3.622	ug/ml	94
22) 2-Nitrophenol	7.372	139	28433	4.503	ug/ml#	95
23) 2,4-Dimethylphenol	7.478	107	44959	2.878	ug/ml	97
24) Bis(2-chloroethoxy)met...	7.572	93	72269	3.817	ug/ml#	97
25) 2,4-Dichlorophenol	7.642	162	49912	3.805	ug/ml	97
28) Benzaldehyde	5.742	105	47840	4.226	ug/ml	99
29) Acetophenone	6.831	105	83722	3.443	ug/ml#	81
37) 4-Chloroaniline	7.872	65	19904	3.263	ug/ml	97
39) p-Chloro-m-cresol	8.401	107	50265	3.733	ug/ml	100
42) Hexachlorocyclopentadiene	8.678	237	31733	3.133	ug/ml	98
43) 2,4,6-Trichlorophenol	8.801	196	41422	4.299	ug/ml	97
44) 2,4,5-Trichlorophenol	8.830	196	41667	4.021	ug/ml	98
47) 2-Nitroaniline	9.095	138	35461	4.224	ug/ml	91
50) Dimethyl phthalate	9.301	163	138012	3.794	ug/ml#	99
52) 2,6-Dinitrotoluene	9.342	165	29240	4.251	ug/ml#	84
59) Caprolactam	8.189	55	11986	1.770	ug/ml#	75
60) 1,2,4,5-Tetrachloroben...	8.678	216	64389	4.007	ug/ml	96
61) Biphenyl	8.977	154	148183	3.748	ug/ml	98
63) 3-Nitroaniline	9.501	138	28380	3.619	ug/ml	99
65) 2,4-Dinitrophenol	9.601	184	3921	2.006	ug/ml	92
66) Dibenzofuran	9.725	168	168590	3.640	ug/ml	95
67) 2,4-Dinitrotoluene	9.730	165	40660	4.182	ug/ml	96
68) 4-Nitrophenol	9.695	65	22690	3.222	ug/ml#	89
70) 2,3,4,6-Tetrachlorophenol	9.860	232	34644	3.749	ug/ml	98
71) Diethyl phthalate	9.995	149	137828	3.554	ug/ml	97

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240304nlvi\
Data File : 892048-3.D
Acq On : 5 Mar 2024 5:43 am
Operator : SV106:ljg
Sample : WG1892048-3,32,,gmr
Misc : WG1891342,WG1892048,ical20337
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Mar 05 13:23:08 2024
Quant Method : I:\8270\SV106\240304nlvi\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Mar 05 11:20:52 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv106\240304nlvi\ABN0304n.D
: 2 - I:\8270\sv106\240304nlvi\ADP0304n.D
: 3 - I:\8270\sv106\240304nlvi\AP90304n.D
Sub List : 8270TCL_REV2 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
73) 4-Chlorophenyl phenyl ...	10.083	204	67746	3.879	ug/ml	91
74) 4-Nitroaniline	10.089	138	28900	3.651	ug/ml	90
75) 4,6-Dinitro-o-cresol	10.124	198	19527	4.482	ug/ml#	64
76) NDPA/DPA	10.195	169	110206	3.579	ug/ml	99
79) 4-Bromophenyl phenyl e...	10.548	248	38820	3.819	ug/ml#	88
86) Atrazine	10.736	200	35557	3.764	ug/ml	92
90) Carbazole	11.201	167	170084	3.396	ug/ml	99
91) Di-n-butylphthalate	11.595	149	215462	3.360	ug/ml	98
96) Butyl benzyl phthalate	13.065	149	88573	3.237	ug/ml	91
105) 3,3'-Dichlorobenzidine	13.577	252	63769	3.743	ug/ml#	95
107) Bis(2-ethylhexyl)phtha...	13.701	149	133501	4.159	ug/ml	94
108) Di-n-octylphthalate	14.377	149	220666	4.075	ug/ml#	74

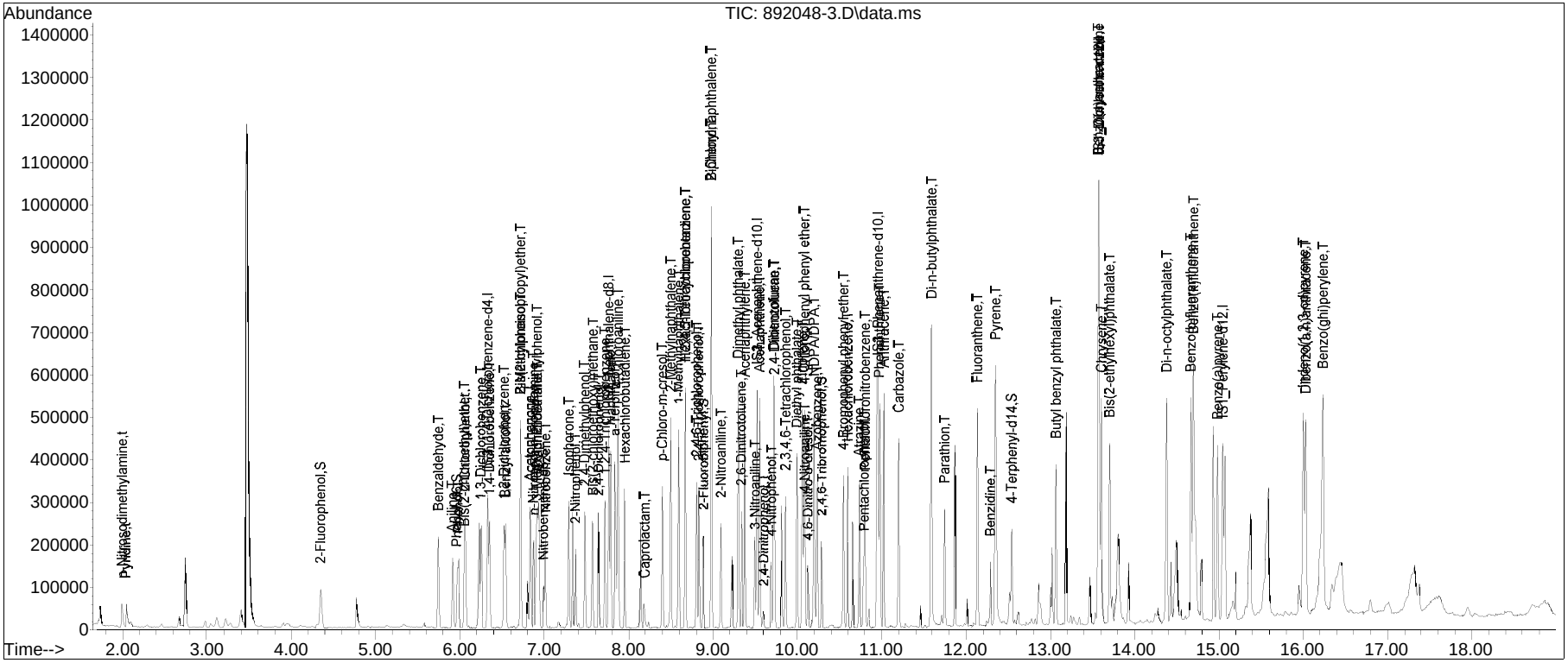
(#) = qualifier out of range (m) = manual integration (+) = signals summed

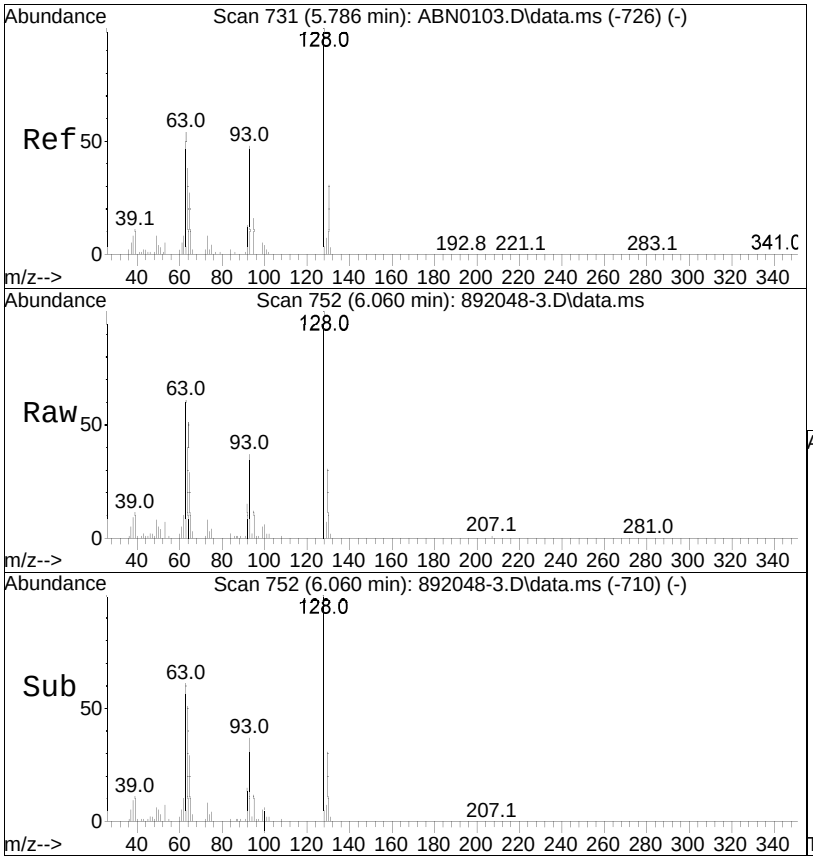
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240304nlvi\
Data File : 892048-3.D
Acq On : 5 Mar 2024 5:43 am
Operator : SV106:ljg
Sample : WG1892048-3,32,,gmr
Misc : WG1891342,WG1892048,ical20337
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Mar 05 13:23:08 2024
Quant Method : I:\8270\SV106\240304nlvi\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Mar 05 11:20:52 2024
Response via : Initial Calibration

Sub List : 8270TCL_REV2 - TCL/CT/MAnlvi\AP90304n.D•

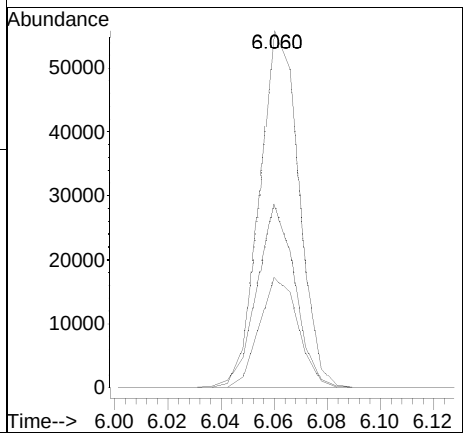


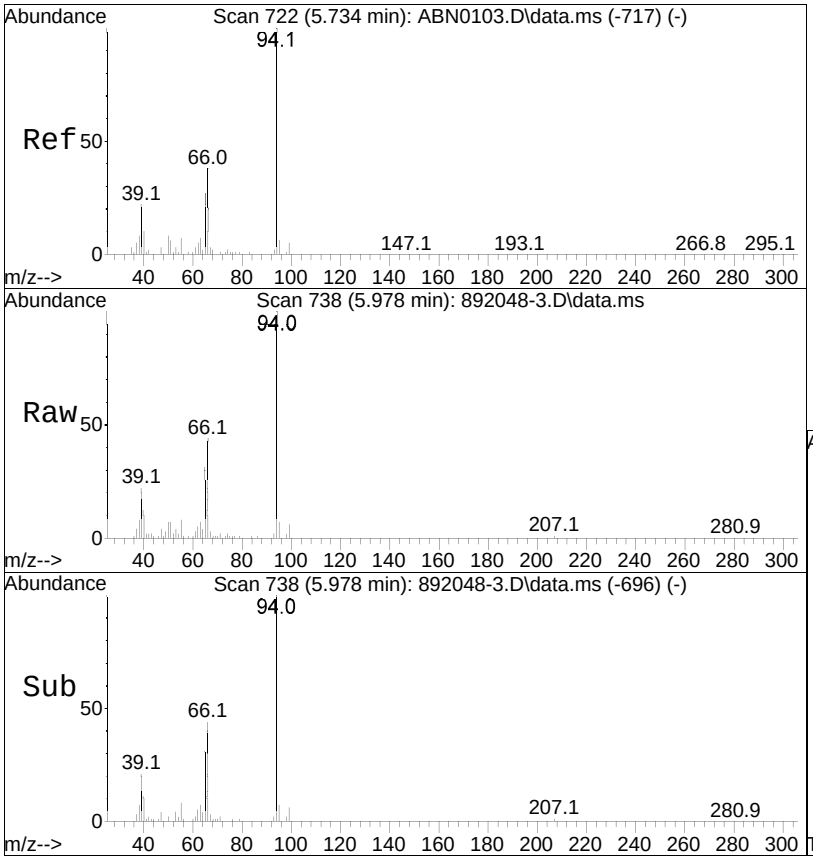


#6
2-Chlorophenol
Concen: 3.67 ug/ml
RT: 6.060 min Scan# 752
Delta R.T. -0.006 min
Lab File: 892048-3.D
Acq: 5 Mar 2024 5:43 am

Tgt Ion:128 Resp: 57064

Ion	Ratio	Lower	Upper
128	100		
64	50.1	45.1	67.7
130	30.6	26.2	39.4

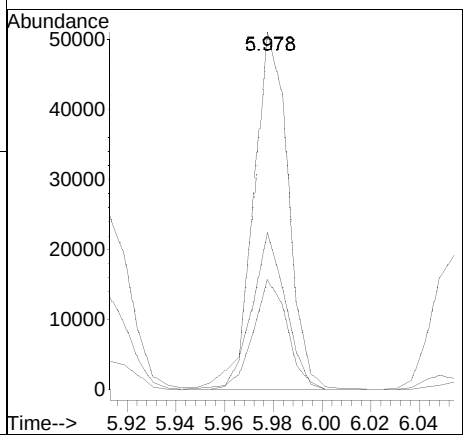


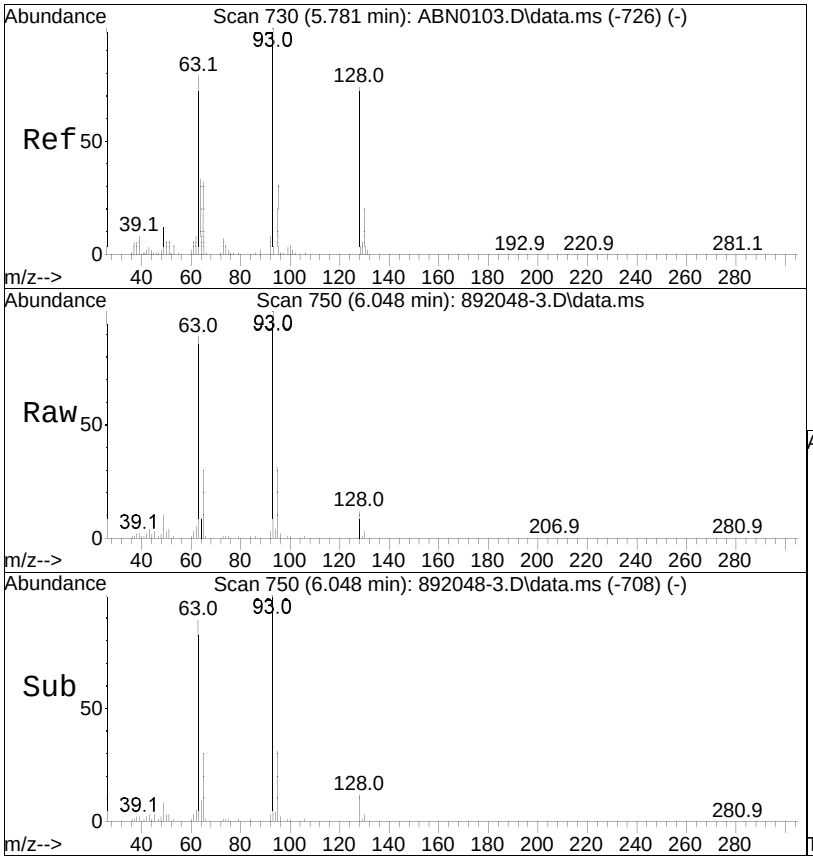


#8
Phenol
Concen: 2.66 ug/ml
RT: 5.978 min Scan# 738
Delta R.T. -0.006 min
Lab File: 892048-3.D
Acq: 5 Mar 2024 5:43 am

Tgt Ion: 94 Resp: 49386

Ion	Ratio	Lower	Upper
94	100		
65	31.5	26.0	39.0
66	46.1	33.8	50.8

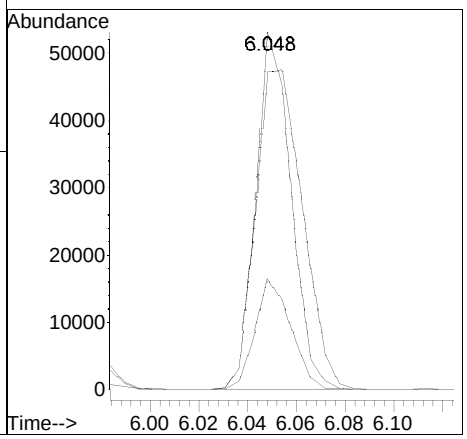


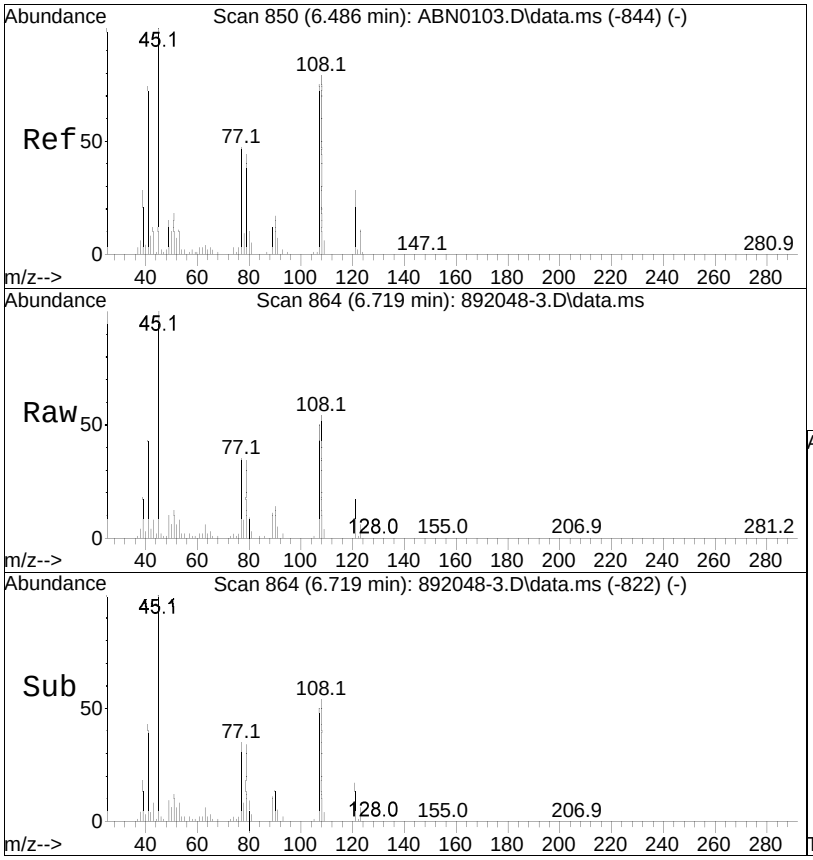


#9
Bis(2-chloroethyl)ether
Concen: 3.57 ug/ml
RT: 6.048 min Scan# 750
Delta R.T. -0.006 min
Lab File: 892048-3.D
Acq: 5 Mar 2024 5:43 am

Tgt Ion: 93 Resp: 53233

Ion	Ratio	Lower	Upper
93	100		
63	118.1	74.6	111.8#
95	31.5	25.9	38.9

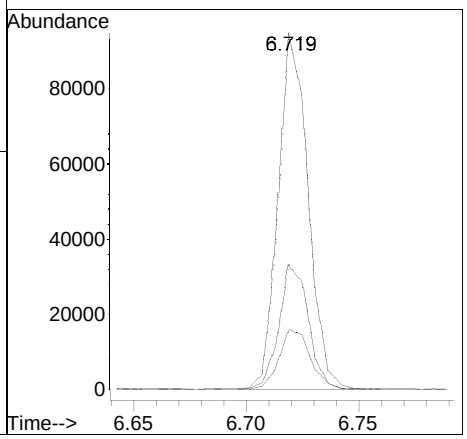


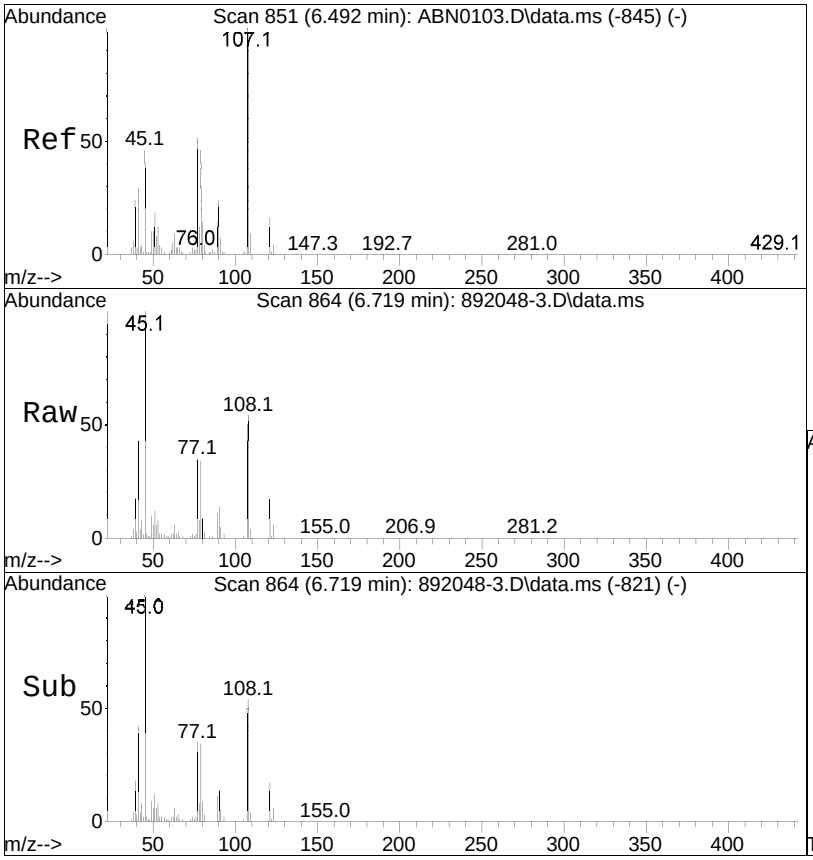


#14
Bis(2-chloroisopropyl)ether
Concen: 3.96 ug/ml
RT: 6.719 min Scan# 864
Delta R.T. -0.006 min
Lab File: 892048-3.D
Acq: 5 Mar 2024 5:43 am

Tgt Ion: 45 Resp: 86978

Ion	Ratio	Lower	Upper
45	100		
121	17.9	9.8	14.6#
77	34.9	6.1	9.1#

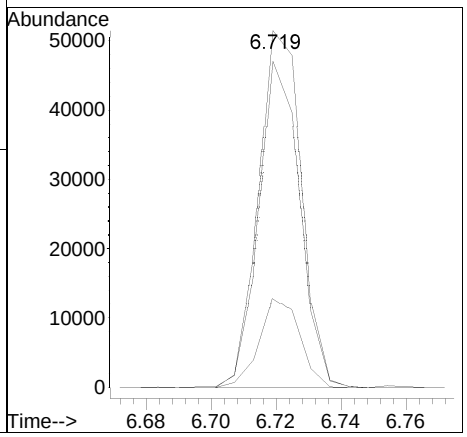


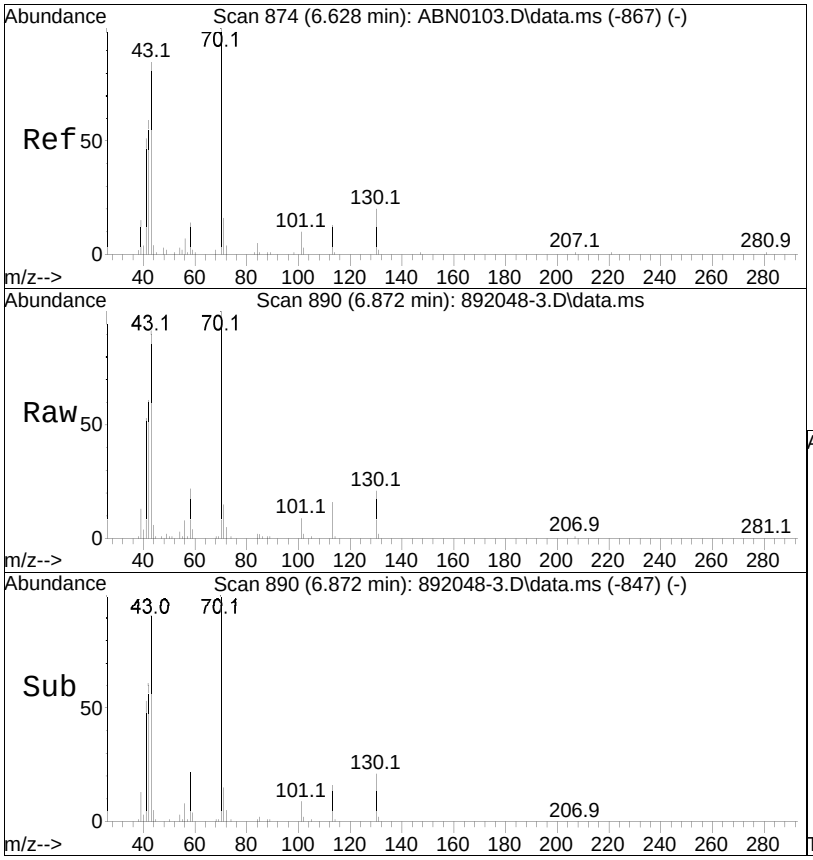


#15
2-Methylphenol
Concen: 3.38 ug/ml
RT: 6.719 min Scan# 864
Delta R.T. 0.000 min
Lab File: 892048-3.D
Acq: 5 Mar 2024 5:43 am

Tgt Ion:108 Resp: 46944

Ion	Ratio	Lower	Upper
108	100		
107	87.6	70.7	106.1
90	23.7	18.7	28.1

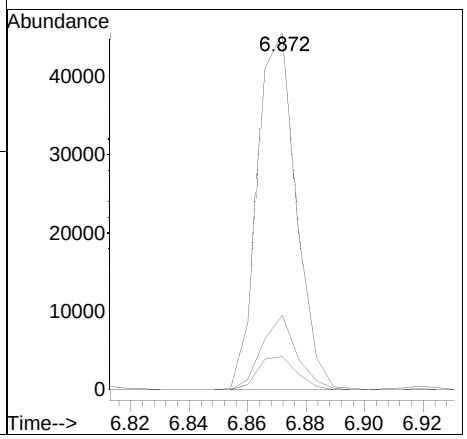


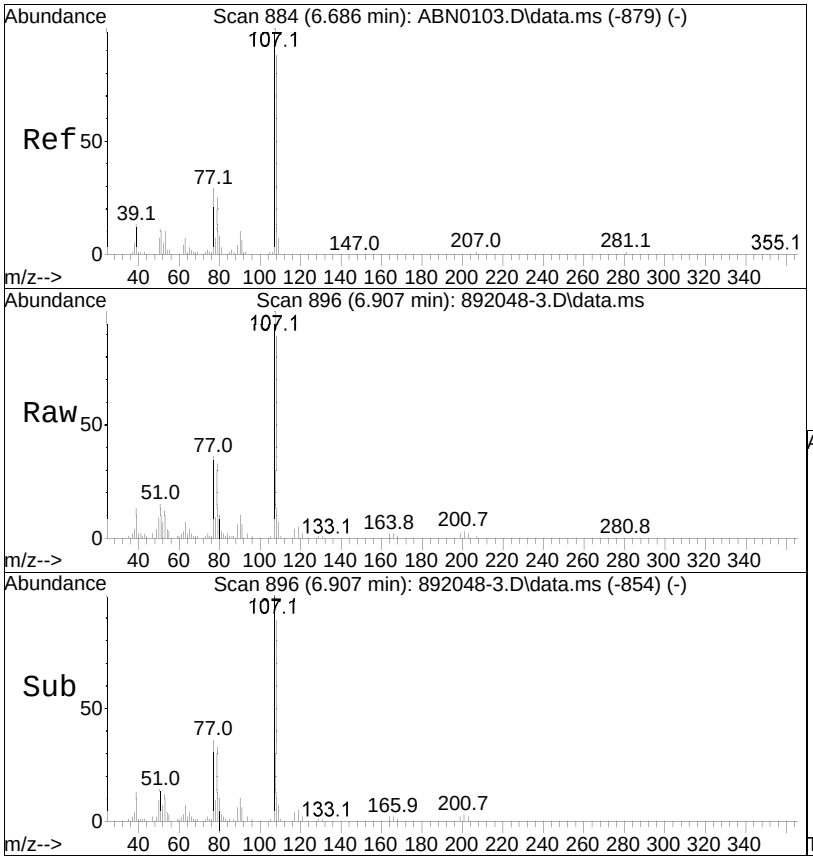


#17
n-Nitrosodi-n-propylamine
Concen: 3.73 ug/ml
RT: 6.872 min Scan# 890
Delta R.T. 0.000 min
Lab File: 892048-3.D
Acq: 5 Mar 2024 5:43 am

Tgt Ion: 70 Resp: 41969

Ion	Ratio	Lower	Upper
70	100		
130	18.7	18.2	27.4
101	9.3	7.8	11.8

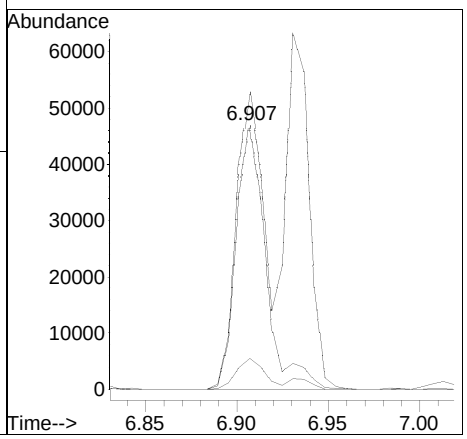


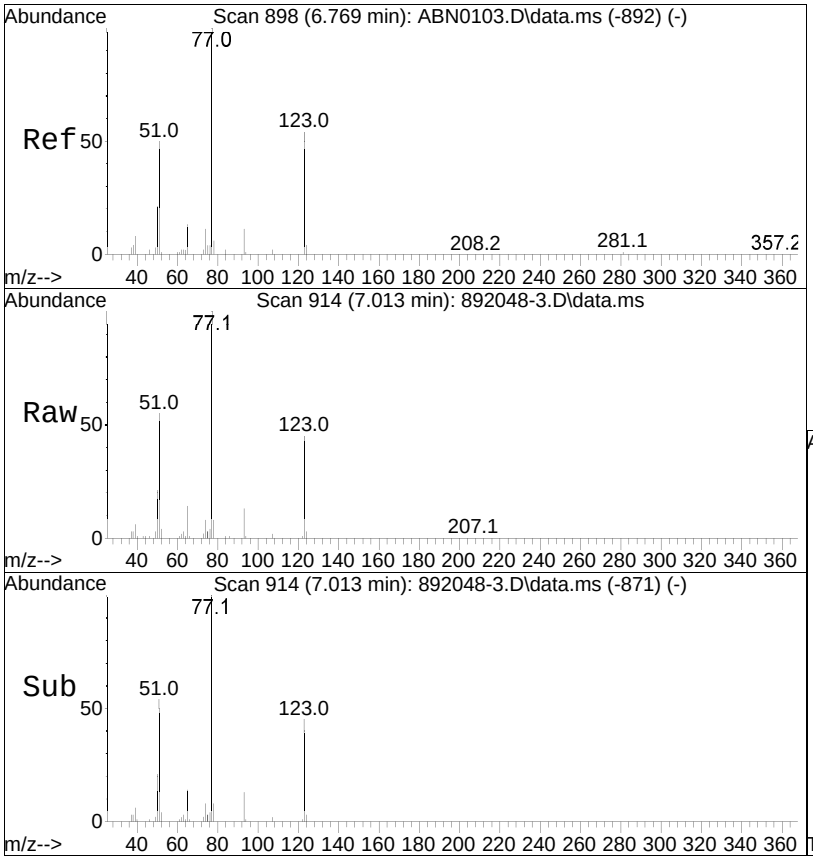


#18
3-Methylphenol/4-Methylphenol
Concen: 3.66 ug/ml
RT: 6.907 min Scan# 896
Delta R.T. -0.006 min
Lab File: 892048-3.D
Acq: 5 Mar 2024 5:43 am

Tgt Ion:108 Resp: 53278

Ion	Ratio	Lower	Upper
108	100		
107	103.9	88.6	132.8
90	11.2	8.8	13.2

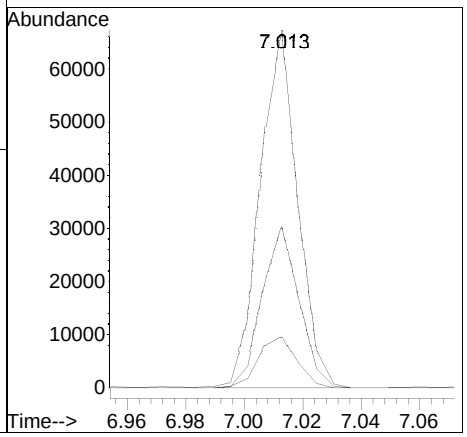


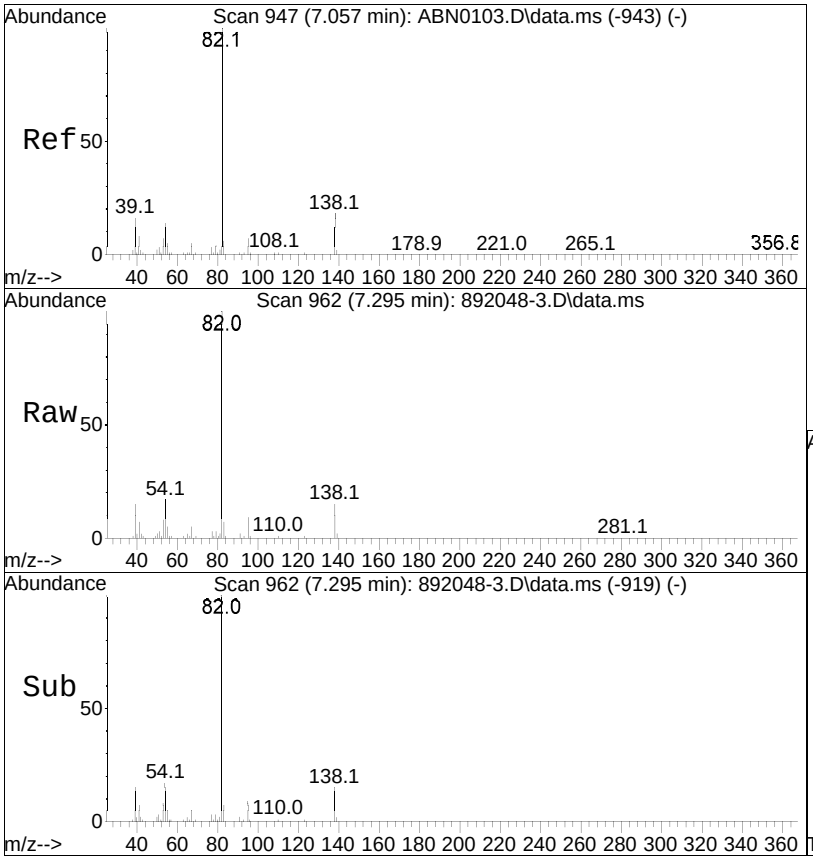


#20
Nitrobenzene
Concen: 3.76 ug/ml
RT: 7.013 min Scan# 914
Delta R.T. 0.000 min
Lab File: 892048-3.D
Acq: 5 Mar 2024 5:43 am

Tgt Ion: 77 Resp: 59406

Ion	Ratio	Lower	Upper
77	100		
123	44.5	36.3	54.5
65	14.8	11.6	17.4

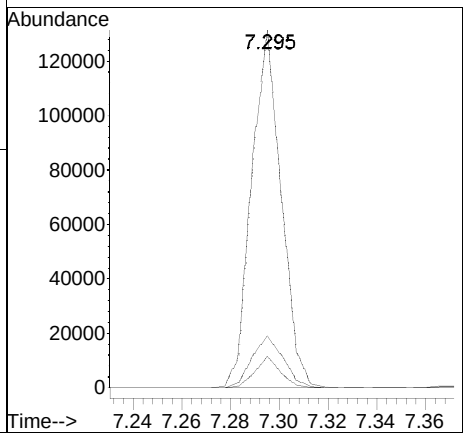


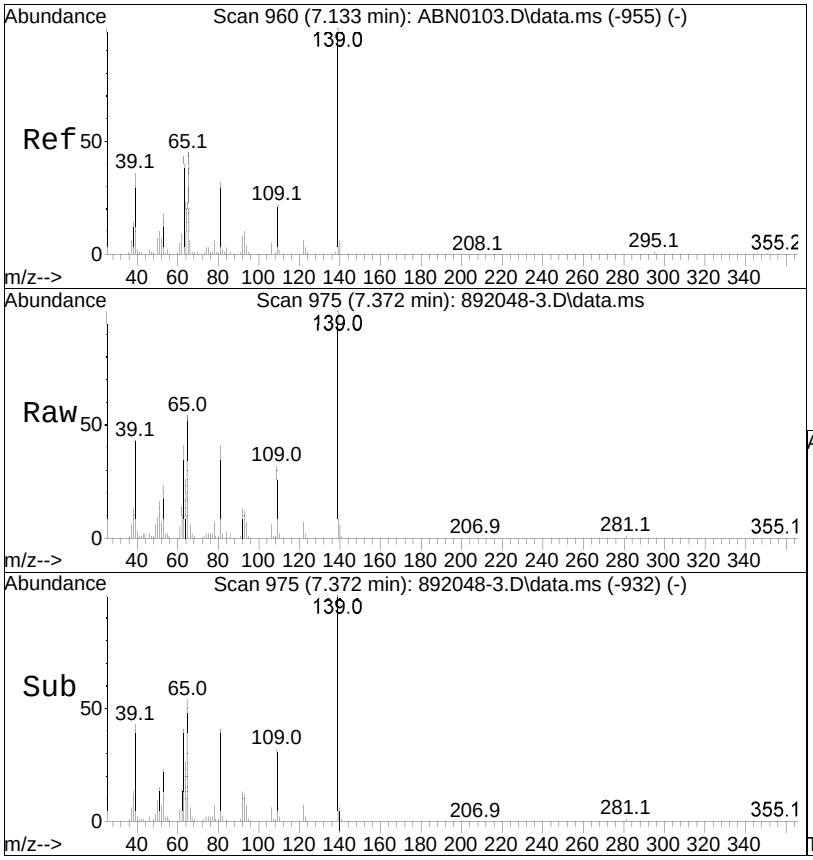


#21
Isophorone
Concen: 3.62 ug/ml
RT: 7.295 min Scan# 962
Delta R.T. 0.000 min
Lab File: 892048-3.D
Acq: 5 Mar 2024 5:43 am

Tgt Ion: 82 Resp: 109445

Ion	Ratio	Lower	Upper
82	100		
138	15.5	14.7	22.1
95	7.6	5.2	7.8

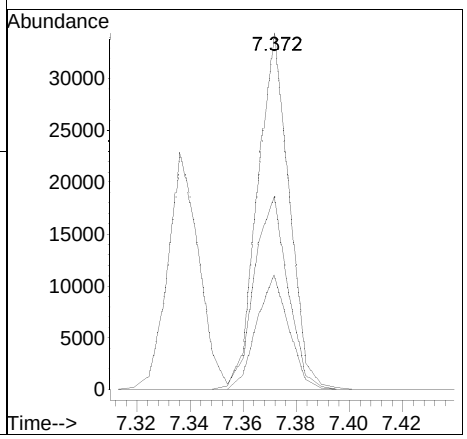


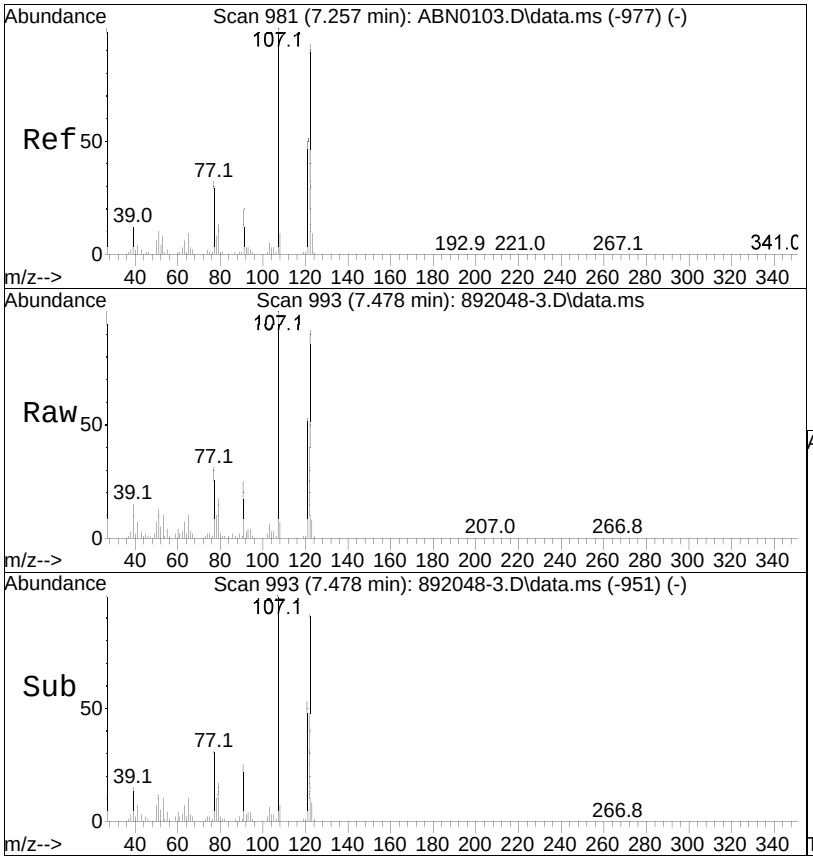


#22
2-Nitrophenol
Concen: 4.50 ug/ml
RT: 7.372 min Scan# 975
Delta R.T. 0.000 min
Lab File: 892048-3.D
Acq: 5 Mar 2024 5:43 am

Tgt Ion:139 Resp: 28433

Ion	Ratio	Lower	Upper
139	100		
109	32.6	19.4	29.0#
65	57.2	46.1	69.1

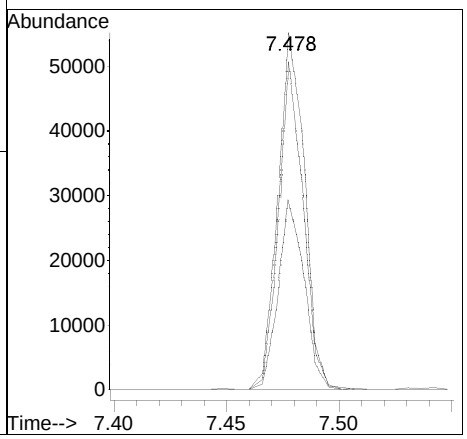


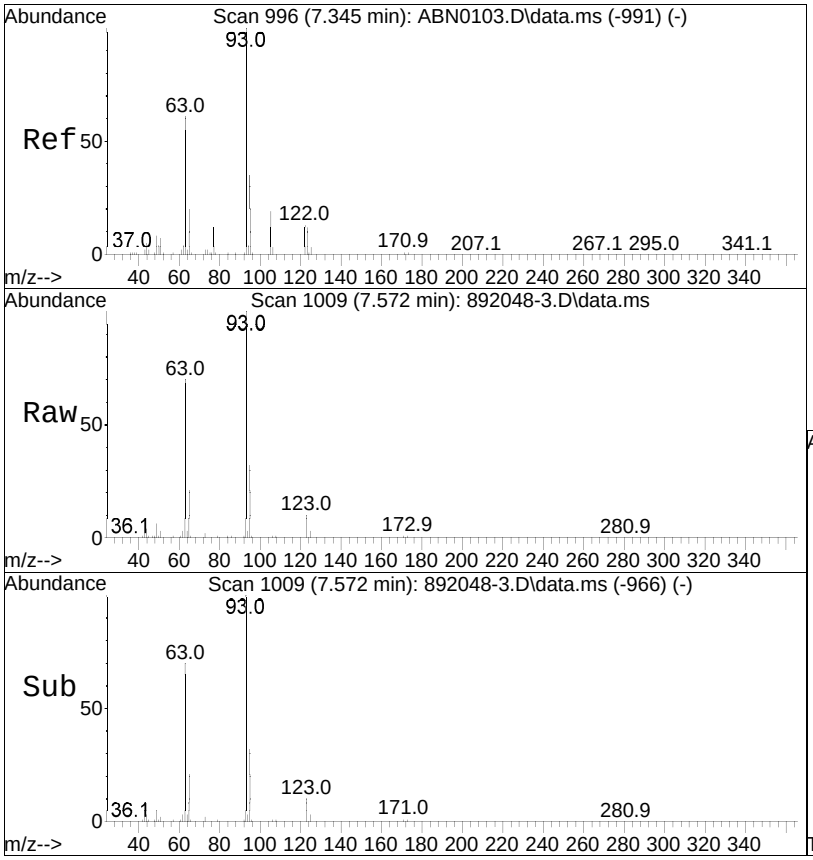


#23
2,4-Dimethylphenol
Concen: 2.88 ug/ml
RT: 7.478 min Scan# 993
Delta R.T. -0.006 min
Lab File: 892048-3.D
Acq: 5 Mar 2024 5:43 am

Tgt Ion:107 Resp: 44959

Ion	Ratio	Lower	Upper
107	100		
121	52.0	40.0	60.0
122	84.9	70.2	105.4

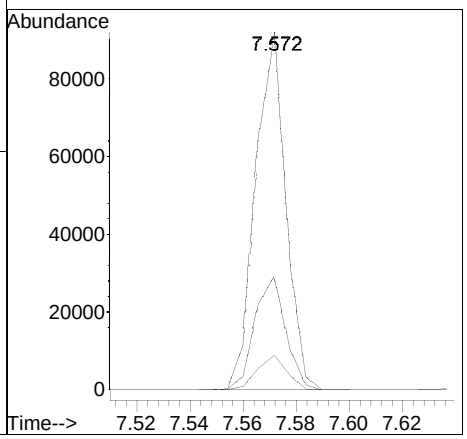


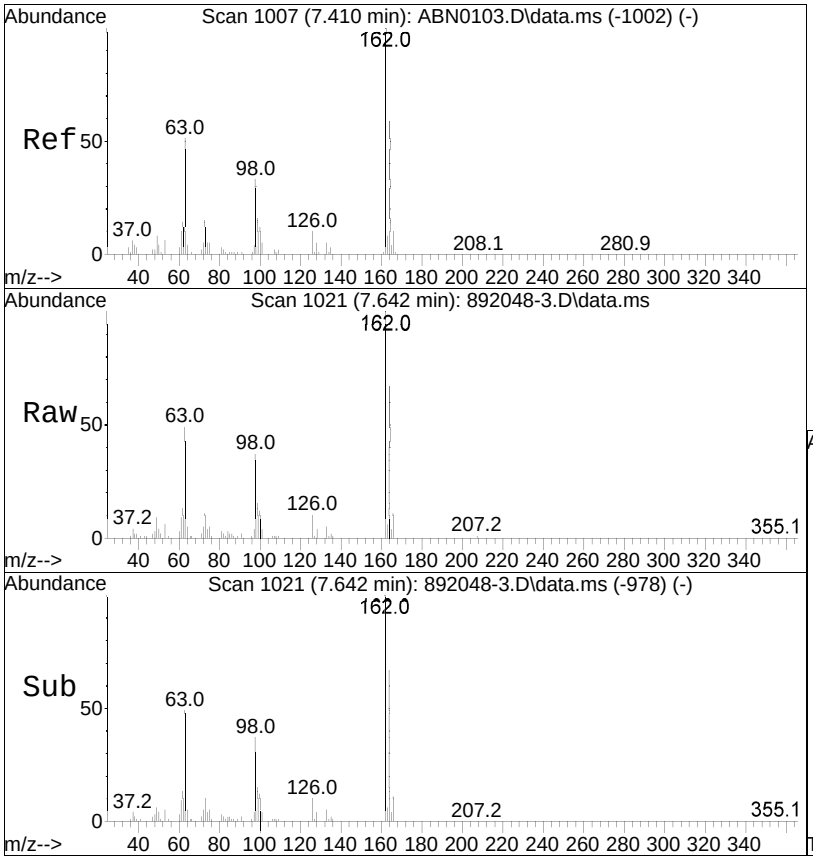


#24
Bis(2-chloroethoxy)methane
Concen: 3.82 ug/ml
RT: 7.572 min Scan# 1009
Delta R.T. 0.000 min
Lab File: 892048-3.D
Acq: 5 Mar 2024 5:43 am

Tgt Ion: 93 Resp: 72269

Ion	Ratio	Lower	Upper
93	100		
95	32.7	25.8	38.8
123	9.5	10.1	15.1#

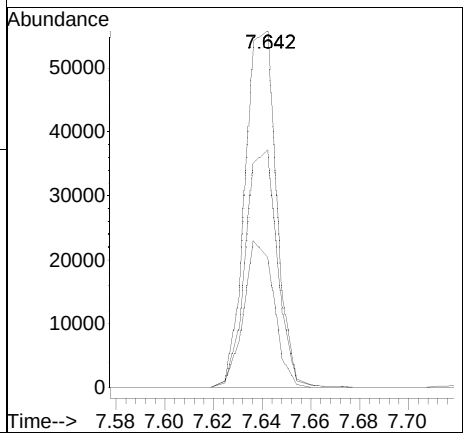


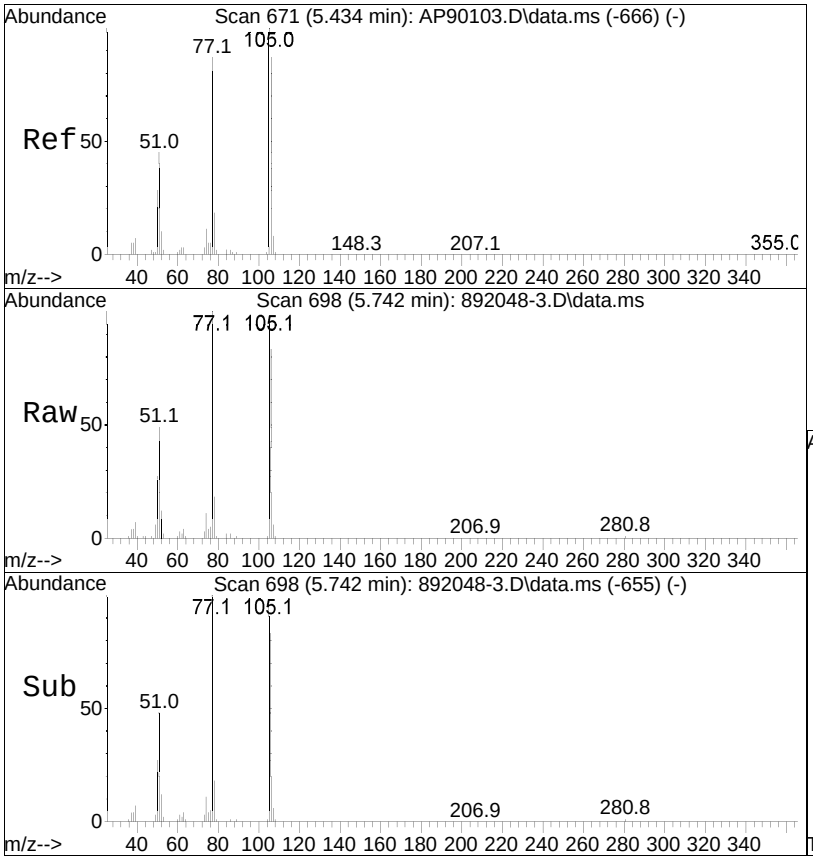


#25
2,4-Dichlorophenol
Concen: 3.81 ug/ml
RT: 7.642 min Scan# 1021
Delta R.T. 0.000 min
Lab File: 892048-3.D
Acq: 5 Mar 2024 5:43 am

Tgt Ion:162 Resp: 49912

Ion	Ratio	Lower	Upper
162	100		
164	67.7	51.0	76.4
98	40.1	32.2	48.2

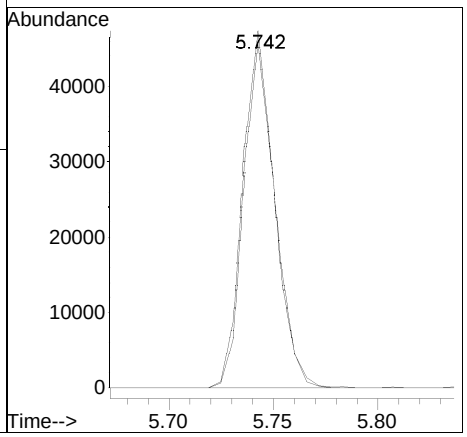


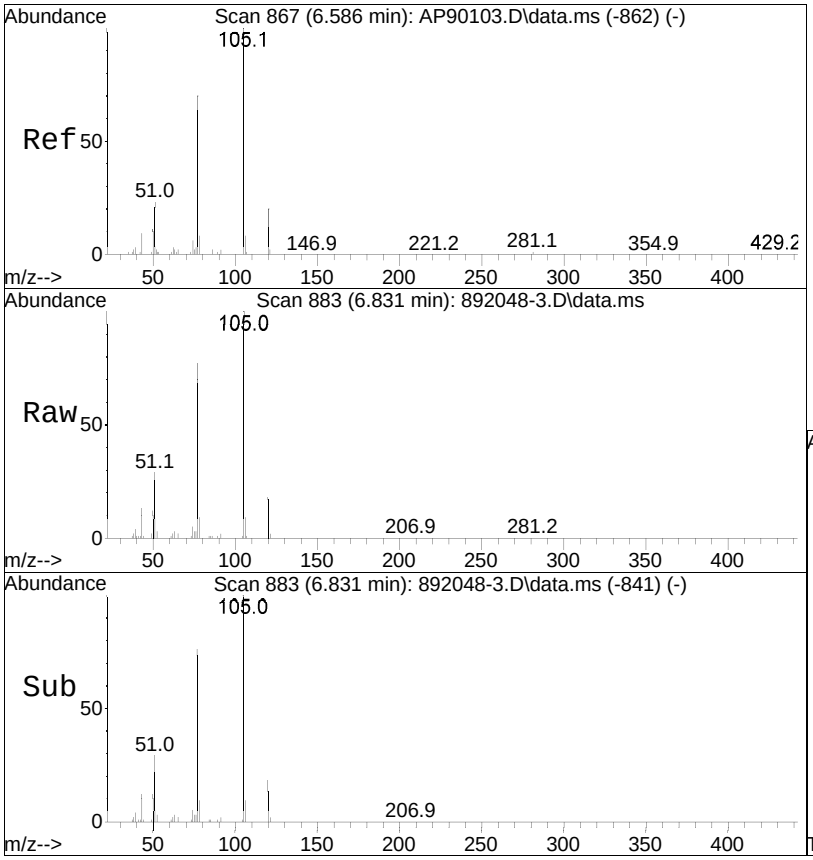


#28
Benzaldehyde
Concen: 4.23 ug/ml
RT: 5.742 min Scan# 698
Delta R.T. 0.000 min
Lab File: 892048-3.D
Acq: 5 Mar 2024 5:43 am

Tgt Ion:105 Resp: 47840

Ion	Ratio	Lower	Upper
105	100		
77	103.9	82.2	123.4

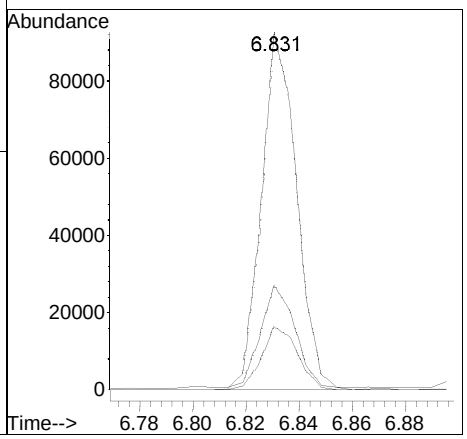


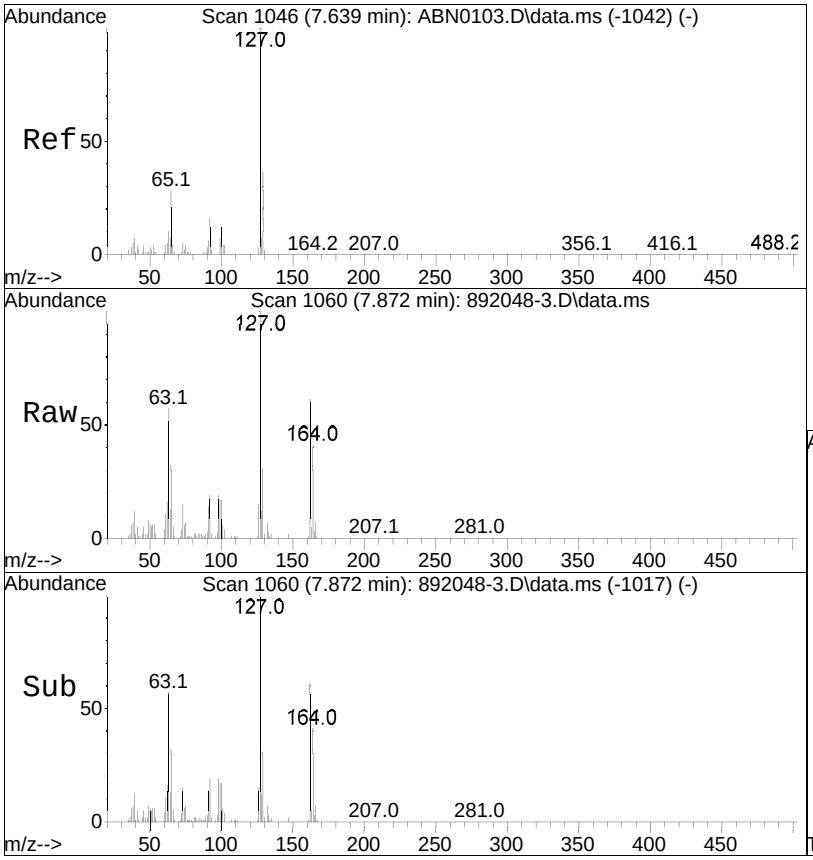


#29
Acetophenone
Concen: 3.44 ug/ml
RT: 6.831 min Scan# 883
Delta R.T. -0.006 min
Lab File: 892048-3.D
Acq: 5 Mar 2024 5:43 am

Tgt Ion:105 Resp: 83722

Ion	Ratio	Lower	Upper
105	100		
120	18.1	20.5	30.7#
51	29.7	34.9	52.3#

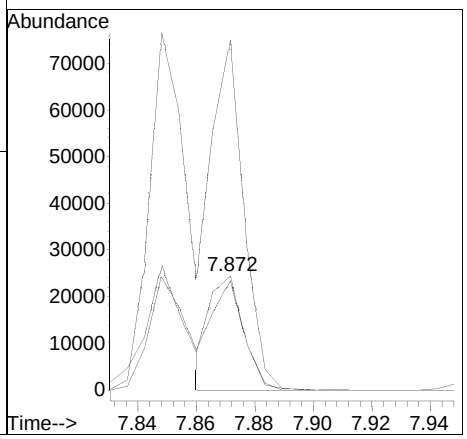


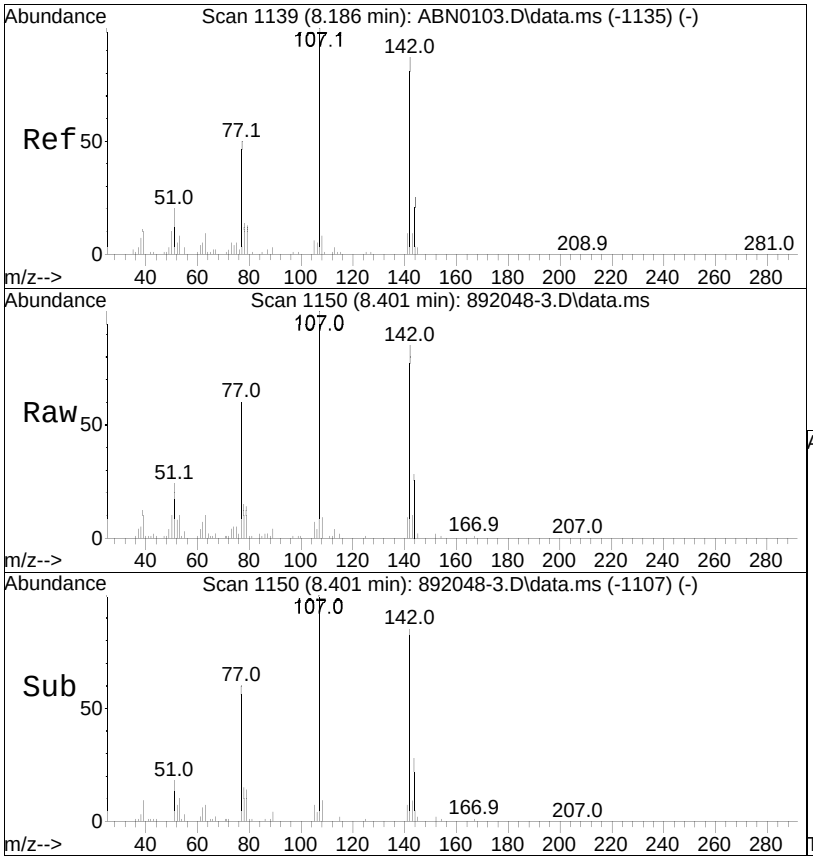


#37
4-Chloroaniline
Concen: 3.26 ug/ml
RT: 7.872 min Scan# 1060
Delta R.T. 0.000 min
Lab File: 892048-3.D
Acq: 5 Mar 2024 5:43 am

Tgt Ion: 65 Resp: 19904

Ion	Ratio	Lower	Upper
65	100		
127	292.0	237.6	356.4
129	90.2	76.3	114.5

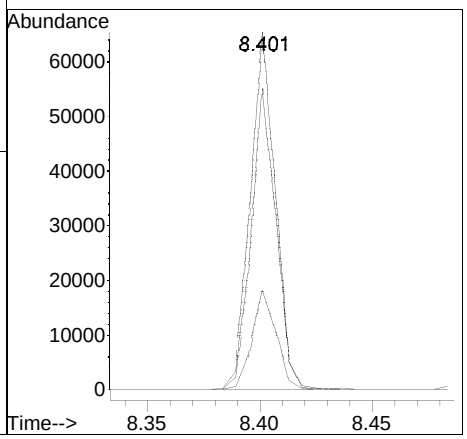


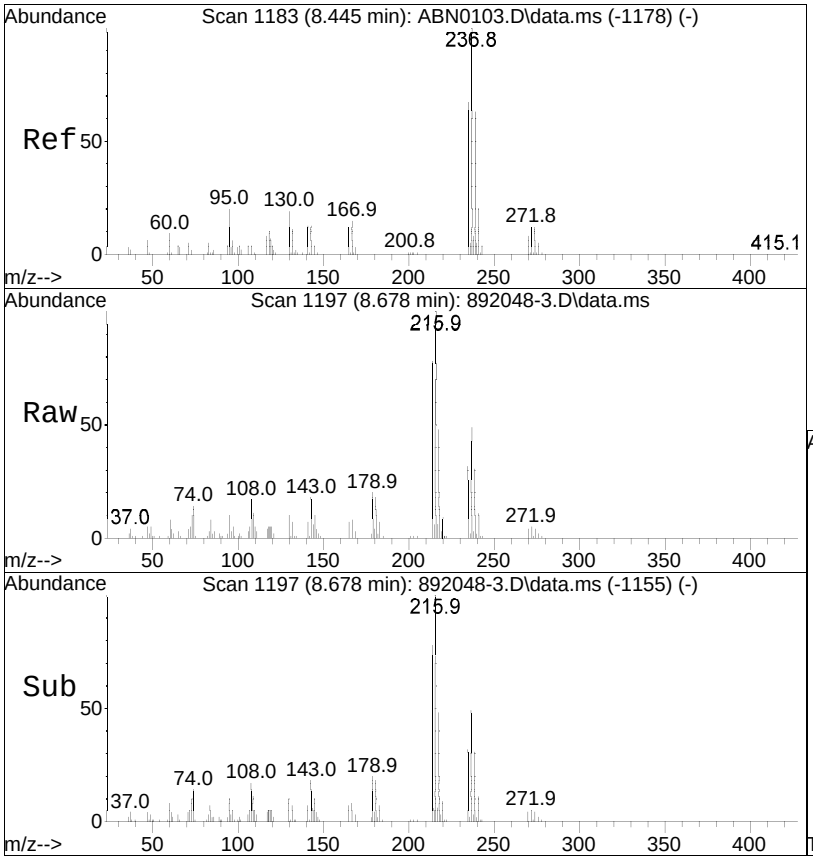


#39
p-Chloro-m-cresol
Concen: 3.73 ug/ml
RT: 8.401 min Scan# 1150
Delta R.T. 0.000 min
Lab File: 892048-3.D
Acq: 5 Mar 2024 5:43 am

Tgt Ion:107 Resp: 50265

Ion	Ratio	Lower	Upper
107	100		
144	26.7	20.9	31.3
142	82.6	66.1	99.1

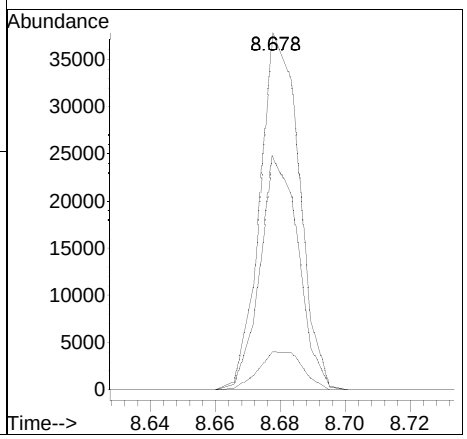


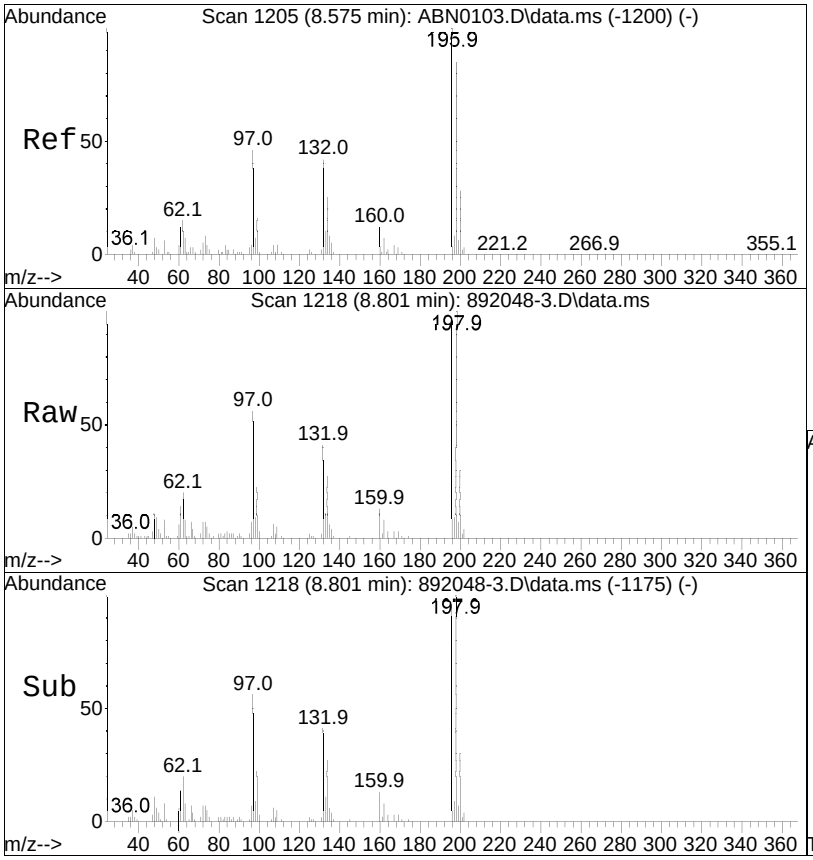


#42
Hexachlorocyclopentadiene
Concen: 3.13 ug/ml
RT: 8.678 min Scan# 1197
Delta R.T. -0.006 min
Lab File: 892048-3.D
Acq: 5 Mar 2024 5:43 am

Tgt Ion:237 Resp: 31733

Ion	Ratio	Lower	Upper
237	100		
235	64.2	49.7	74.5
272	12.1	9.8	14.6

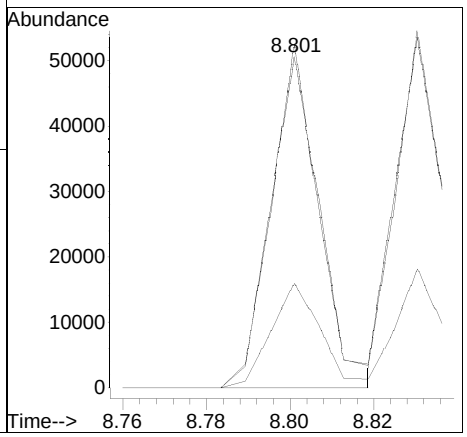


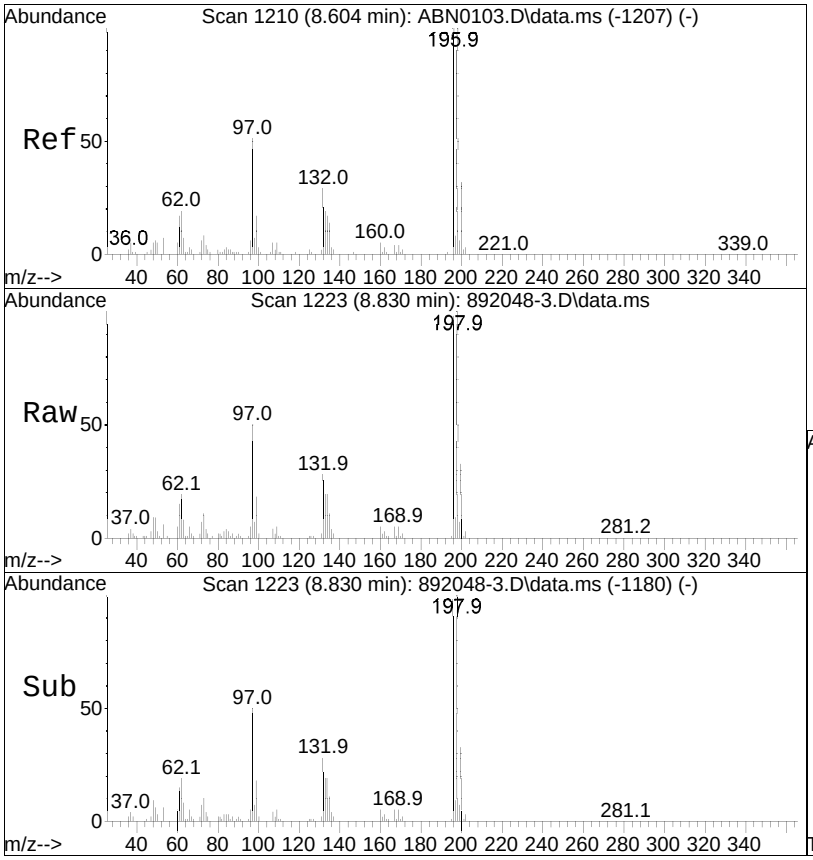


#43
2,4,6-Trichlorophenol
Concen: 4.30 ug/ml
RT: 8.801 min Scan# 1218
Delta R.T. 0.000 min
Lab File: 892048-3.D
Acq: 5 Mar 2024 5:43 am

Tgt Ion:196 Resp: 41422

Ion	Ratio	Lower	Upper
196	100		
198	99.5	77.5	116.3
200	32.0	23.8	35.6

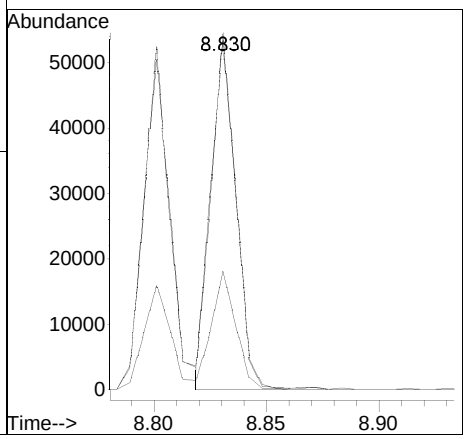


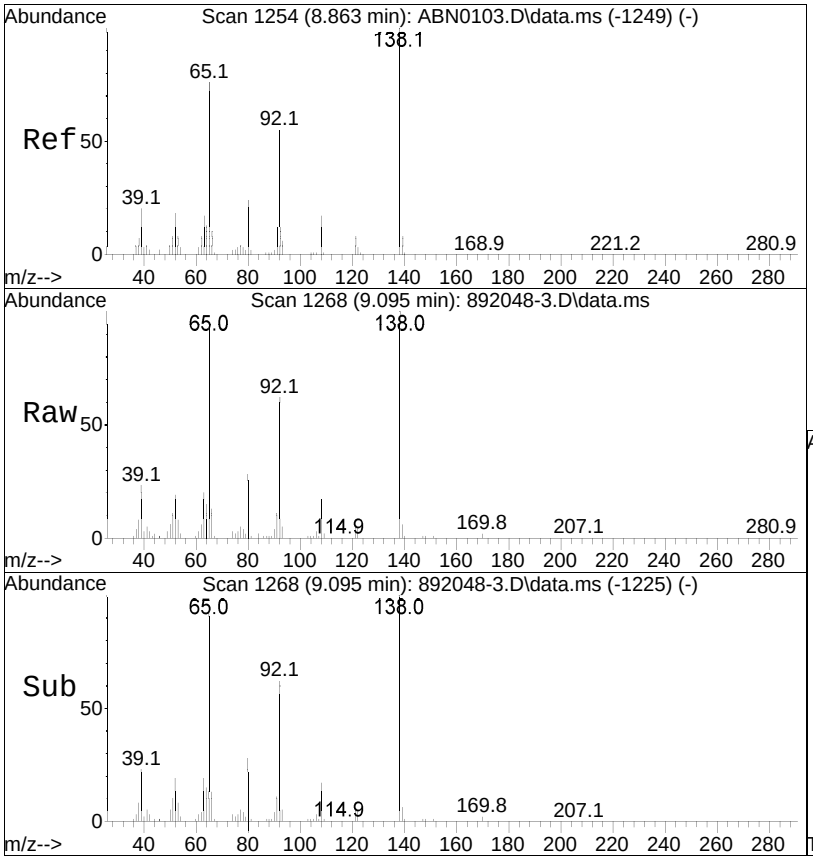


#44
2,4,5-Trichlorophenol
Concen: 4.02 ug/ml
RT: 8.830 min Scan# 1223
Delta R.T. 0.000 min
Lab File: 892048-3.D
Acq: 5 Mar 2024 5:43 am

Tgt Ion:196 Resp: 41667

Ion	Ratio	Lower	Upper
196	100		
200	32.5	25.4	38.0
198	100.0	78.0	117.0

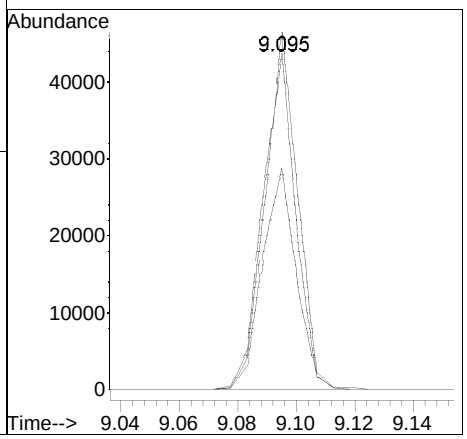


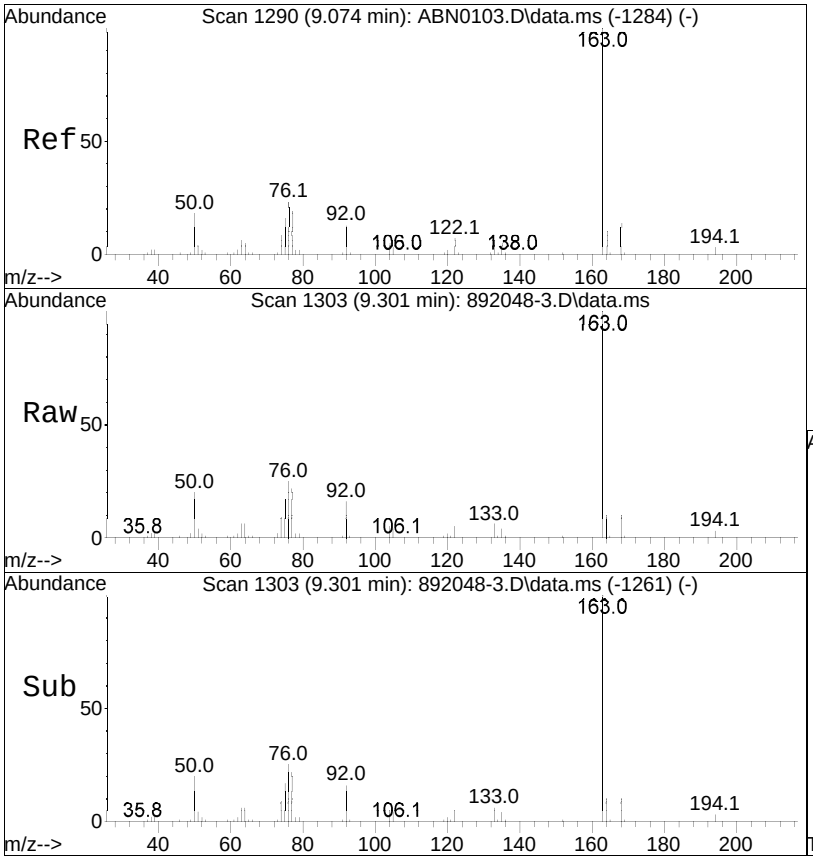


#47
2-Nitroaniline
Concen: 4.22 ug/ml
RT: 9.095 min Scan# 1268
Delta R.T. 0.000 min
Lab File: 892048-3.D
Acq: 5 Mar 2024 5:43 am

Tgt Ion:138 Resp: 35461

Ion	Ratio	Lower	Upper
138	100		
92	64.6	53.5	80.3
65	95.3	86.3	129.5

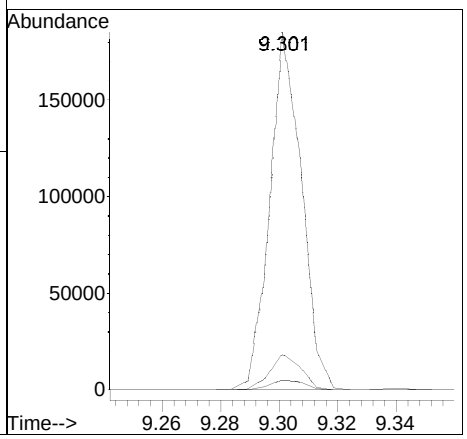


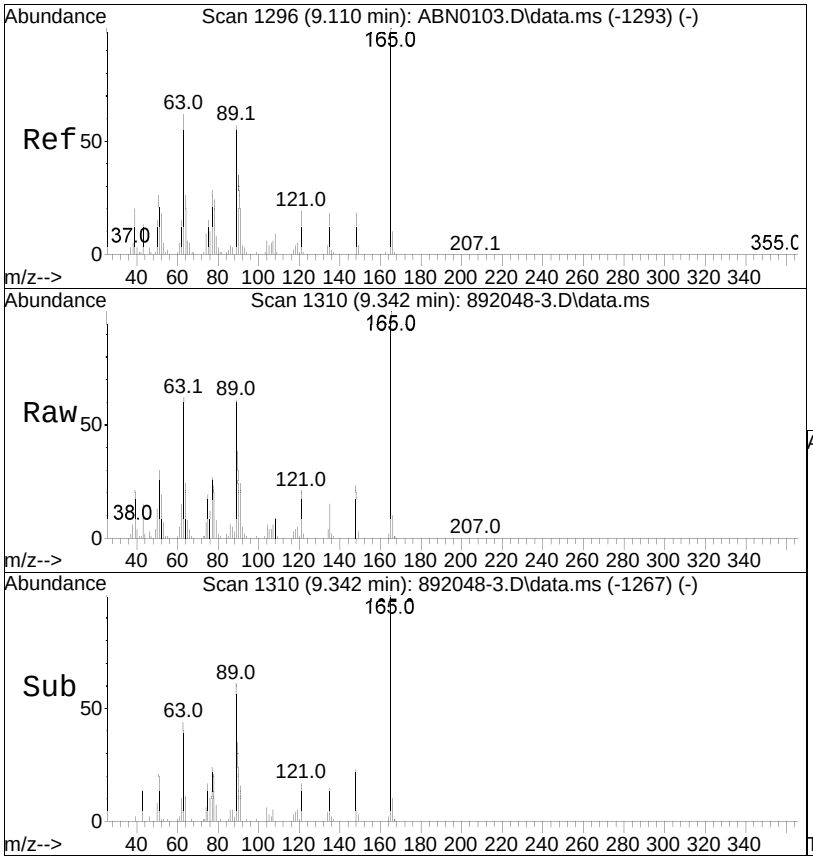


#50
Dimethyl phthalate
Concen: 3.79 ug/ml
RT: 9.301 min Scan# 1303
Delta R.T. -0.006 min
Lab File: 892048-3.D
Acq: 5 Mar 2024 5:43 am

Tgt Ion:163 Resp: 138012

Ion	Ratio	Lower	Upper
163	100		
194	3.1	3.5	5.3#
164	9.9	7.9	11.9

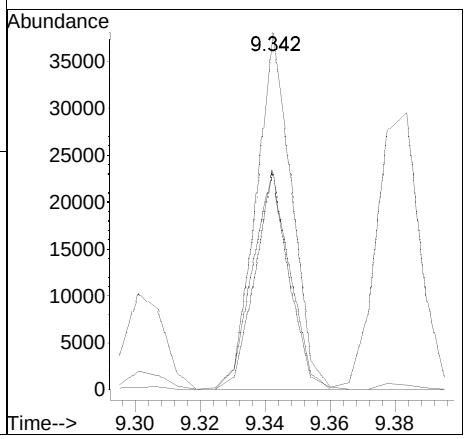


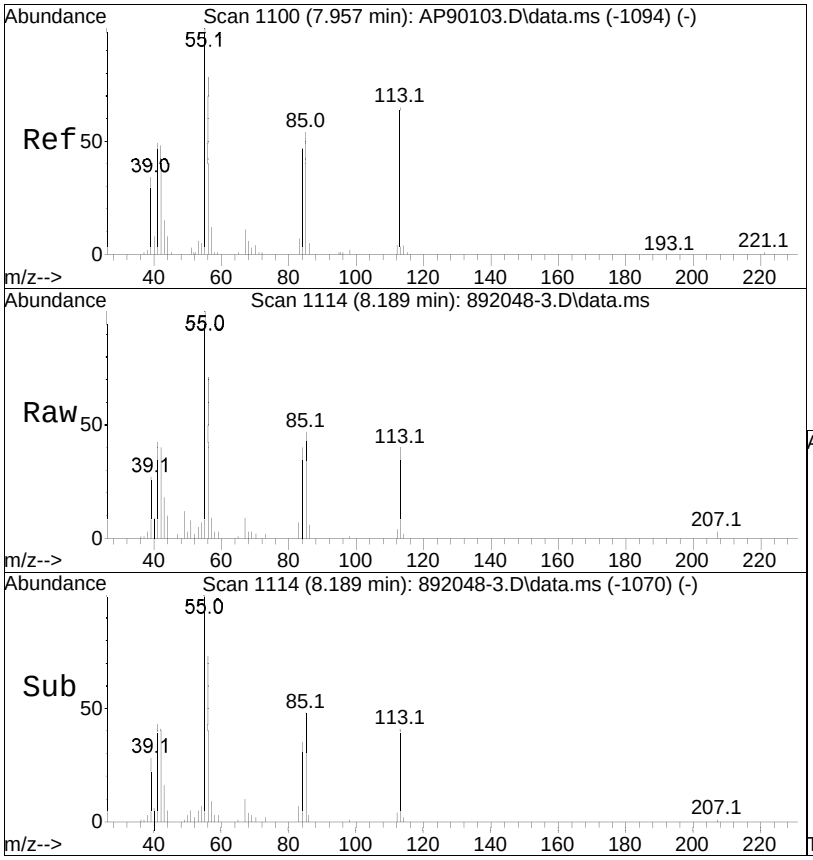


#52
2,6-Dinitrotoluene
Concen: 4.25 ug/ml
RT: 9.342 min Scan# 1310
Delta R.T. 0.000 min
Lab File: 892048-3.D
Acq: 5 Mar 2024 5:43 am

Tgt Ion:165 Resp: 29240

Ion	Ratio	Lower	Upper
165	100		
89	59.5	54.2	81.2
63	61.7	64.2	96.2#

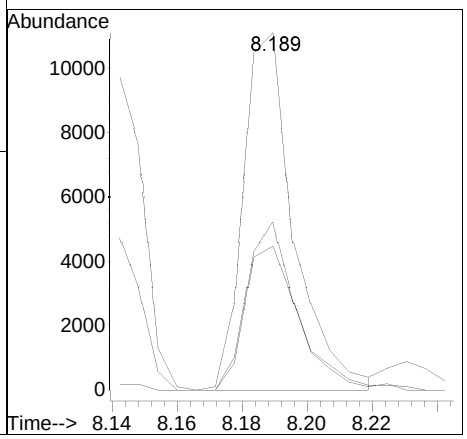


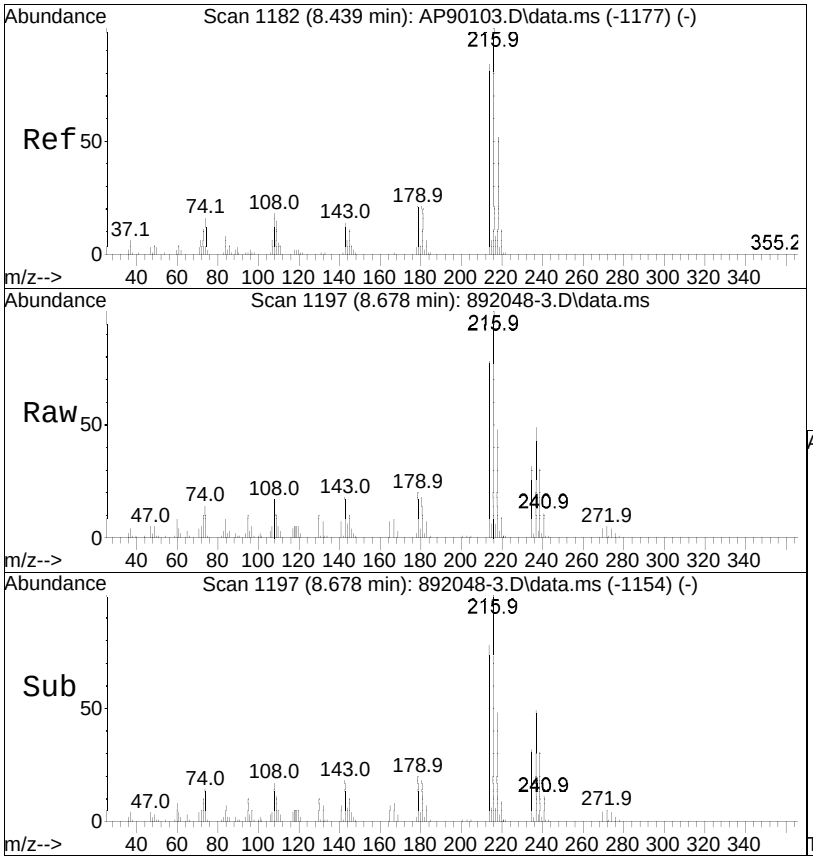


#59
Caprolactam
Concen: 1.77 ug/ml
RT: 8.189 min Scan# 1114
Delta R.T. 0.006 min
Lab File: 892048-3.D
Acq: 5 Mar 2024 5:43 am

Tgt Ion: 55 Resp: 11986

Ion	Ratio	Lower	Upper
55	100		
85	47.5	19.8	29.6#
113	43.2	29.6	44.4

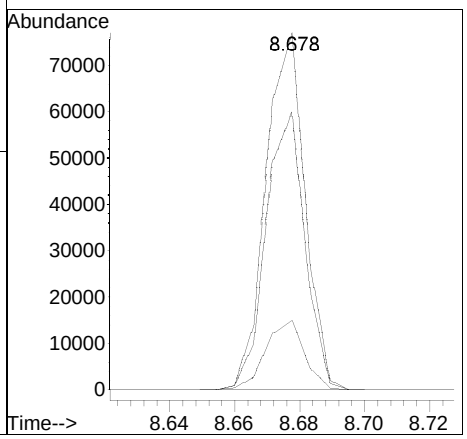


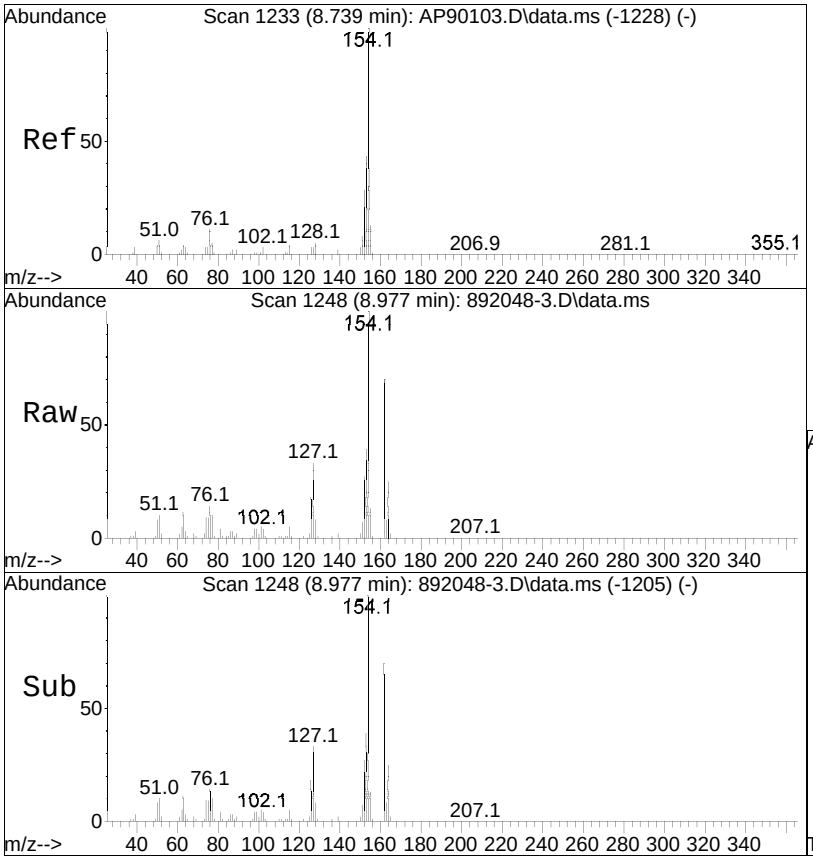


#60
1,2,4,5-Tetrachlorobenzene
Concen: 4.01 ug/ml
RT: 8.678 min Scan# 1197
Delta R.T. 0.000 min
Lab File: 892048-3.D
Acq: 5 Mar 2024 5:43 am

Tgt Ion:216 Resp: 64389

Ion	Ratio	Lower	Upper
216	100		
214	77.3	63.7	95.5
179	19.4	19.0	28.6

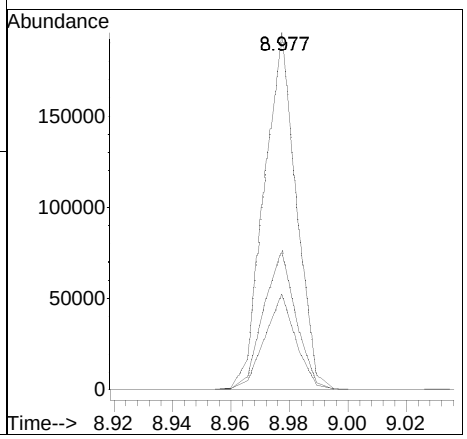


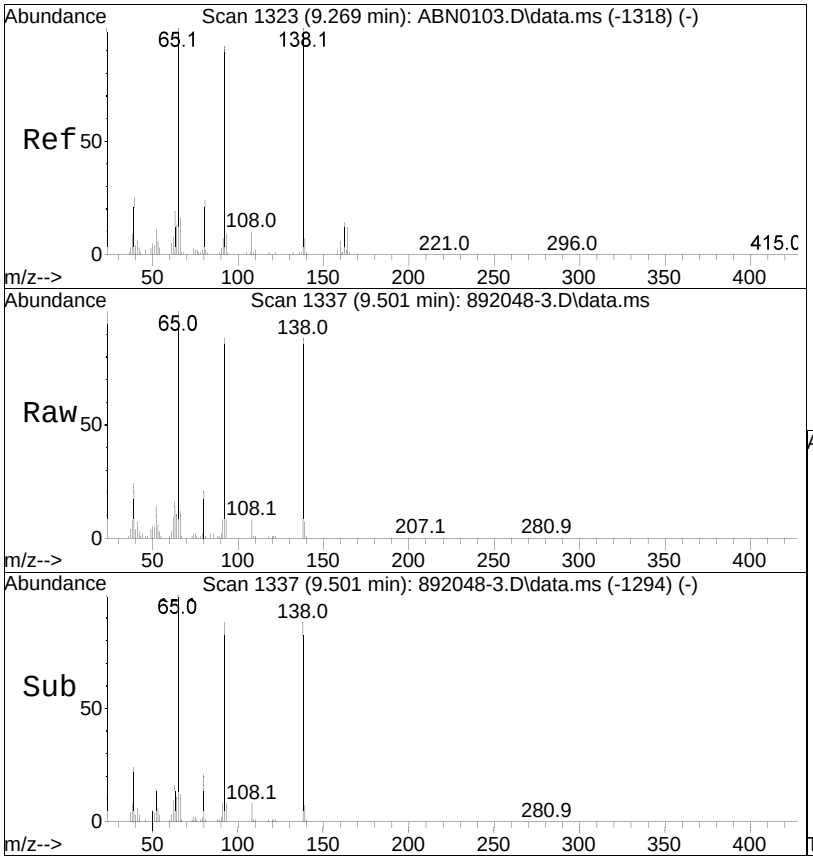


#61
Biphenyl
Concen: 3.75 ug/ml
RT: 8.977 min Scan# 1248
Delta R.T. 0.000 min
Lab File: 892048-3.D
Acq: 5 Mar 2024 5:43 am

Tgt Ion:154 Resp: 148183

Ion	Ratio	Lower	Upper
154	100		
153	39.5	32.3	48.5
152	26.2	22.5	33.7

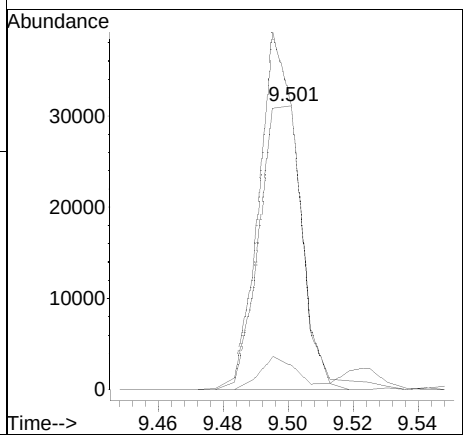


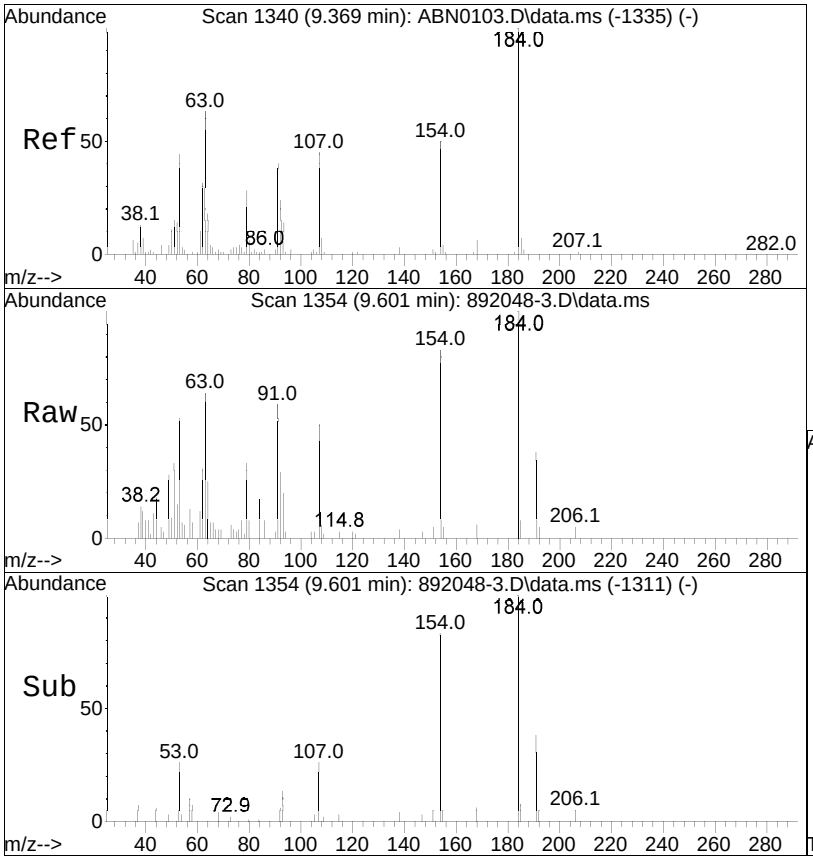


#63
3-Nitroaniline
Concen: 3.62 ug/ml
RT: 9.501 min Scan# 1337
Delta R.T. 0.000 min
Lab File: 892048-3.D
Acq: 5 Mar 2024 5:43 am

Tgt Ion:138 Resp: 28380

Ion	Ratio	Lower	Upper
138	100		
92	116.5	93.4	140.2
108	9.9	9.5	14.3

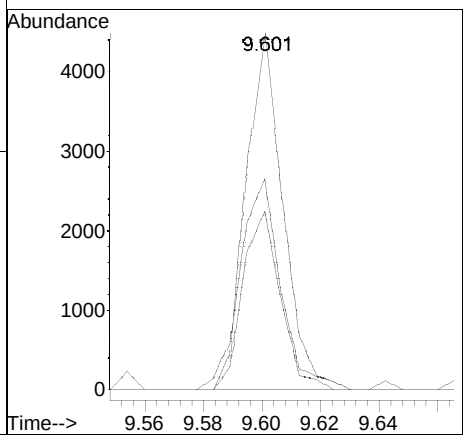


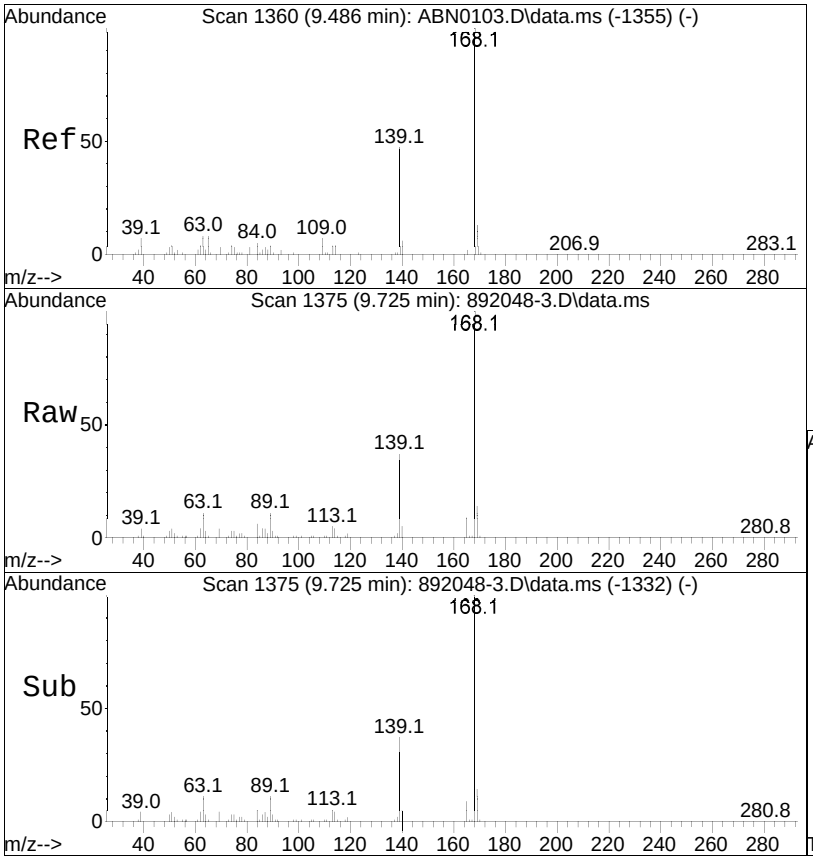


#65
2,4-Dinitrophenol
Concen: 2.01 ug/ml
RT: 9.601 min Scan# 1354
Delta R.T. 0.000 min
Lab File: 892048-3.D
Acq: 5 Mar 2024 5:43 am

Tgt Ion:184 Resp: 3921

Ion	Ratio	Lower	Upper
184	100		
107	50.8	37.7	56.5
91	64.8	46.3	69.5

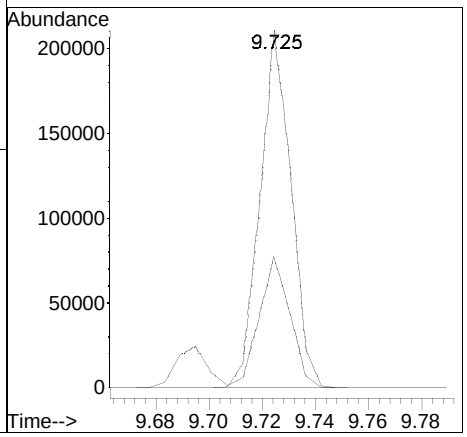


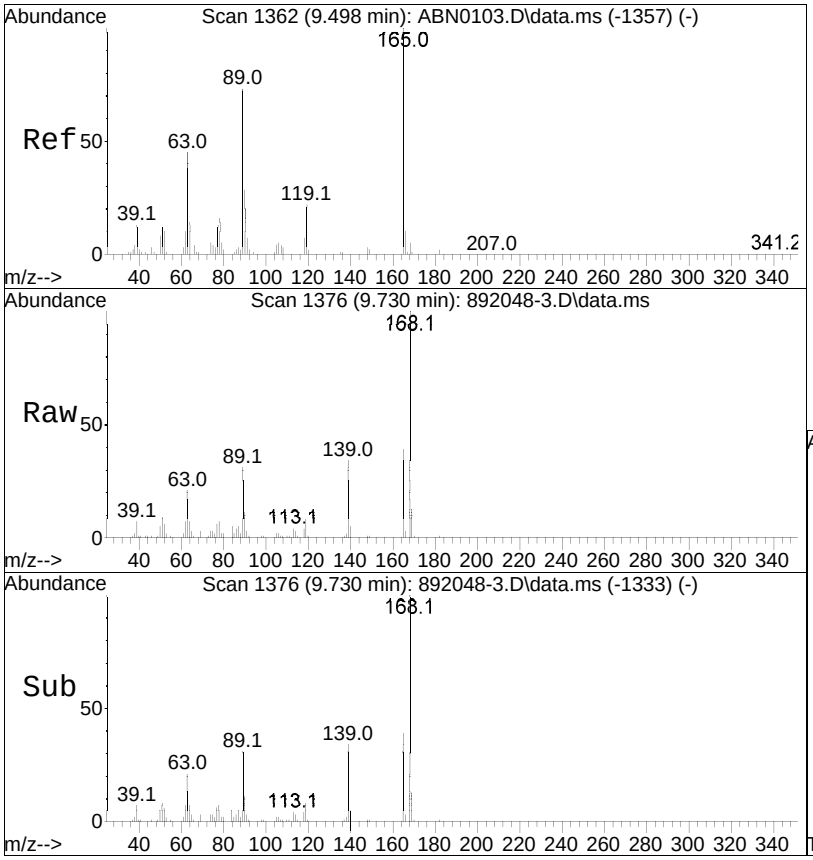


#66
Dibenzofuran
Concen: 3.64 ug/ml
RT: 9.725 min Scan# 1375
Delta R.T. 0.000 min
Lab File: 892048-3.D
Acq: 5 Mar 2024 5:43 am

Tgt Ion:168 Resp: 168590

Ion	Ratio	Lower	Upper
168	100		
139	36.5	31.4	47.2

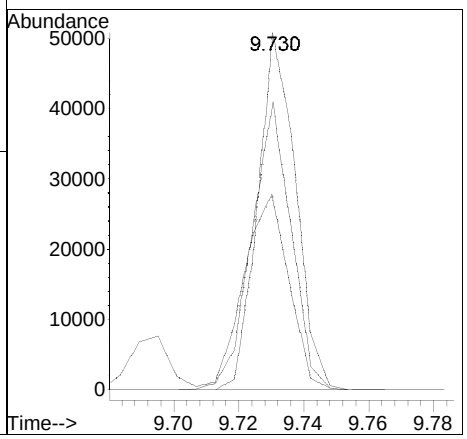


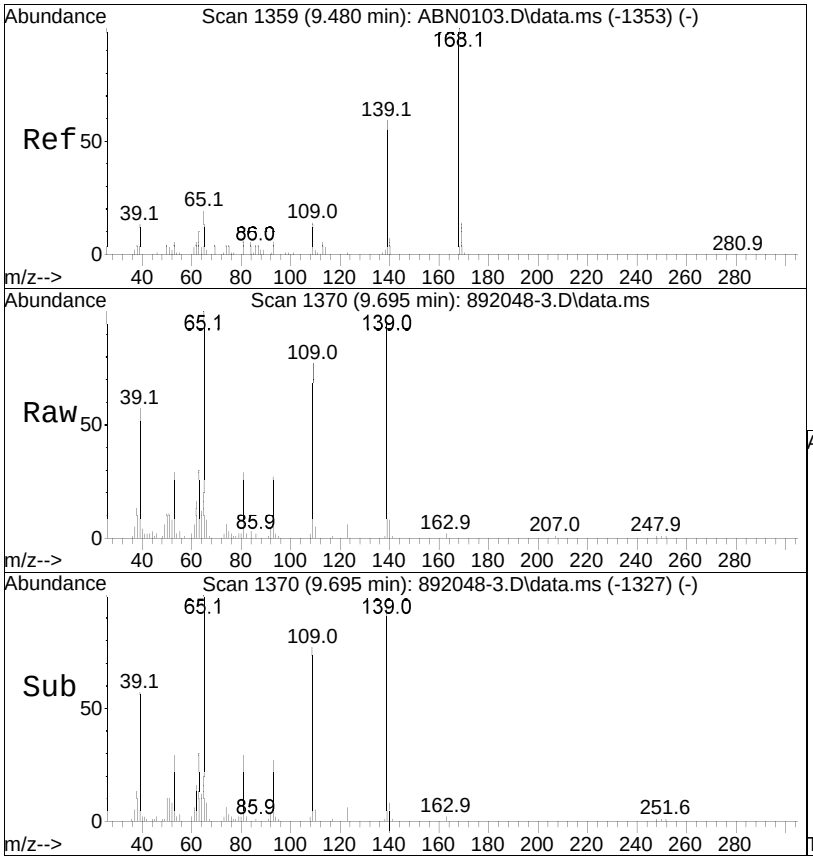


#67
2,4-Dinitrotoluene
Concen: 4.18 ug/ml
RT: 9.730 min Scan# 1376
Delta R.T. 0.000 min
Lab File: 892048-3.D
Acq: 5 Mar 2024 5:43 am

Tgt Ion:165 Resp: 40660

Ion	Ratio	Lower	Upper
165	100		
89	84.2	72.0	108.0
63	65.8	52.7	79.1

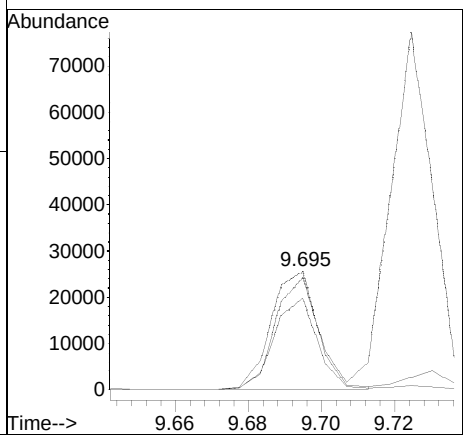


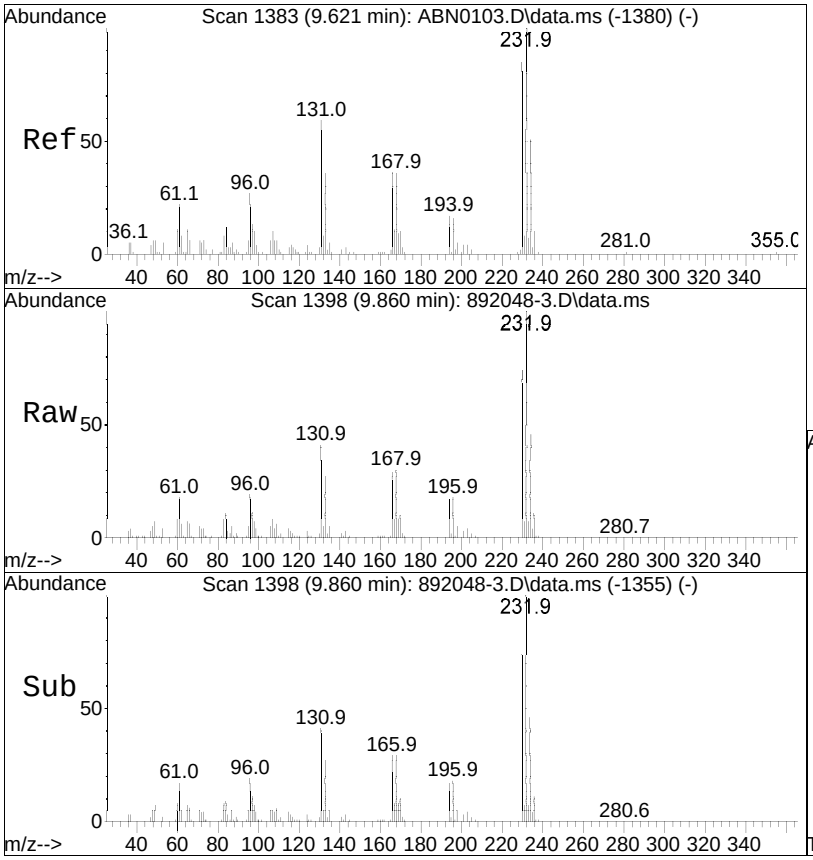


#68
4-Nitrophenol
Concen: 3.22 ug/ml
RT: 9.695 min Scan# 1370
Delta R.T. 0.000 min
Lab File: 892048-3.D
Acq: 5 Mar 2024 5:43 am

Tgt Ion: 65 Resp: 22690

Ion	Ratio	Lower	Upper
65	100		
109	72.0	47.4	71.2#
139	88.8	76.6	115.0

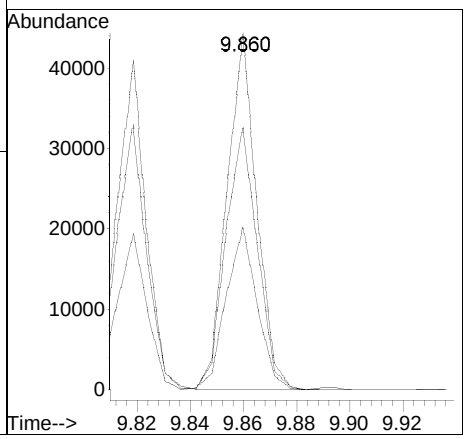


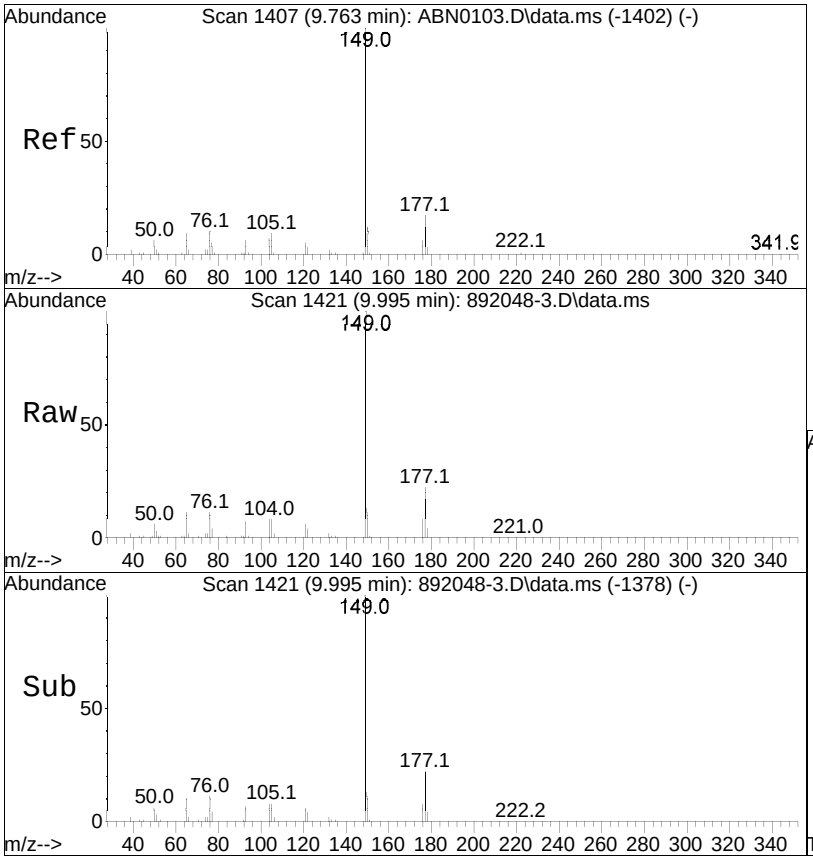


#70
2,3,4,6-Tetrachlorophenol
Concen: 3.75 ug/ml
RT: 9.860 min Scan# 1398
Delta R.T. 0.000 min
Lab File: 892048-3.D
Acq: 5 Mar 2024 5:43 am

Tgt Ion:232 Resp: 34644

Ion	Ratio	Lower	Upper
232	100		
230	78.0	61.8	92.8
234	47.6	36.2	54.2

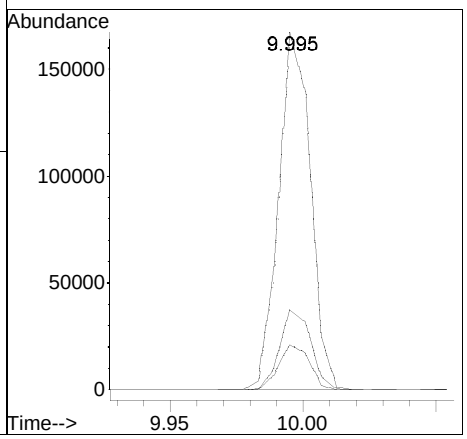


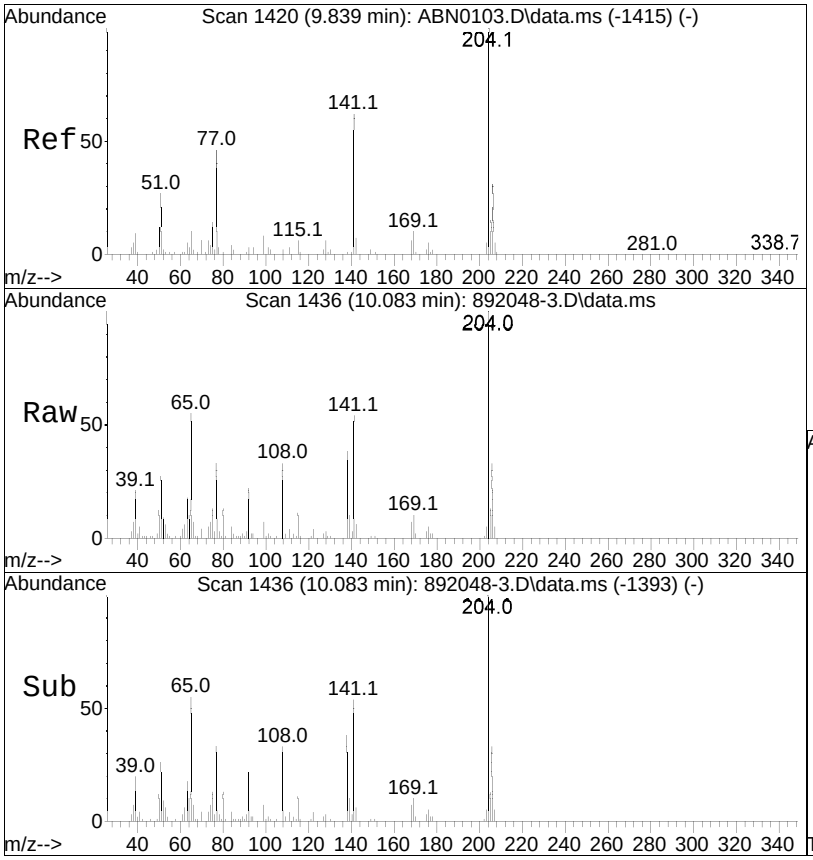


#71
Diethyl phthalate
Concen: 3.55 ug/ml
RT: 9.995 min Scan# 1421
Delta R.T. 0.000 min
Lab File: 892048-3.D
Acq: 5 Mar 2024 5:43 am

Tgt Ion:149 Resp: 137828

Ion	Ratio	Lower	Upper
149	100		
177	22.0	16.1	24.1
150	12.4	9.4	14.2

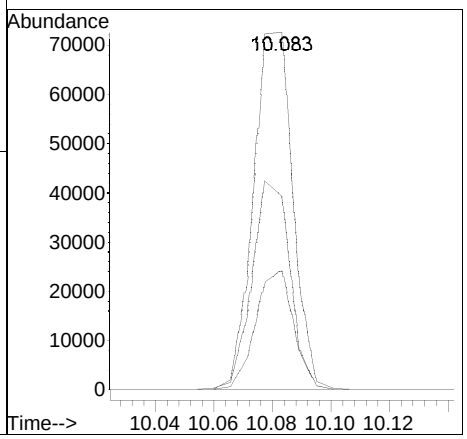


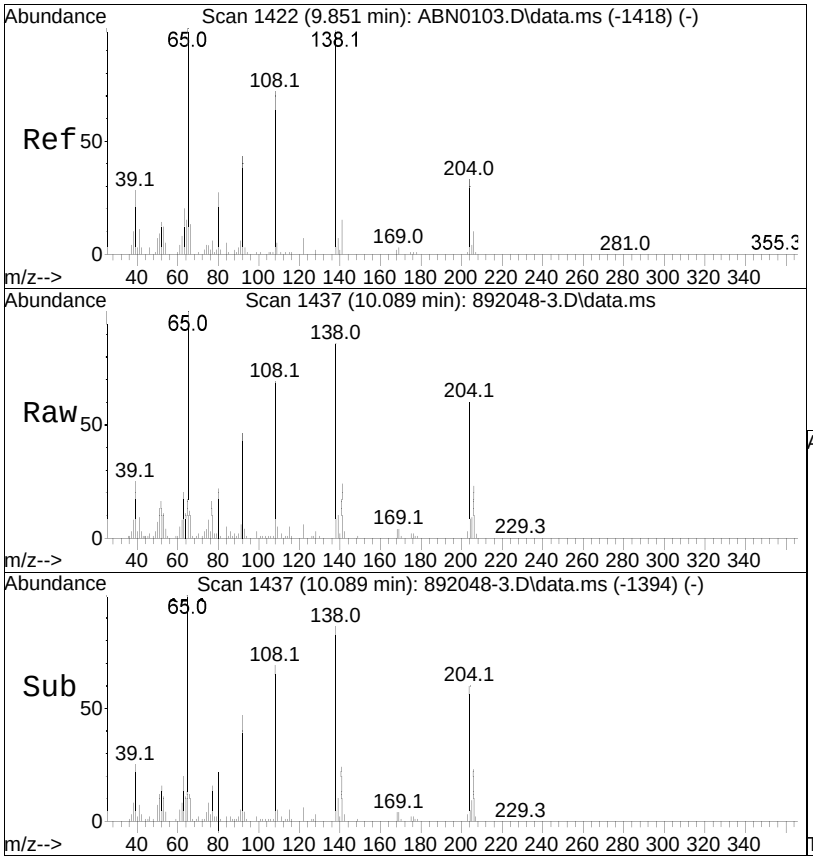


#73
4-Chlorophenyl phenyl ether
Concen: 3.88 ug/ml
RT: 10.083 min Scan# 1436
Delta R.T. 0.000 min
Lab File: 892048-3.D
Acq: 5 Mar 2024 5:43 am

Tgt Ion:204 Resp: 67746

Ion	Ratio	Lower	Upper
204	100		
206	32.3	25.8	38.6
141	56.2	53.6	80.4

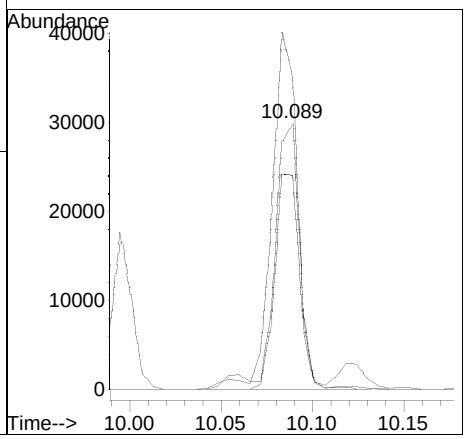


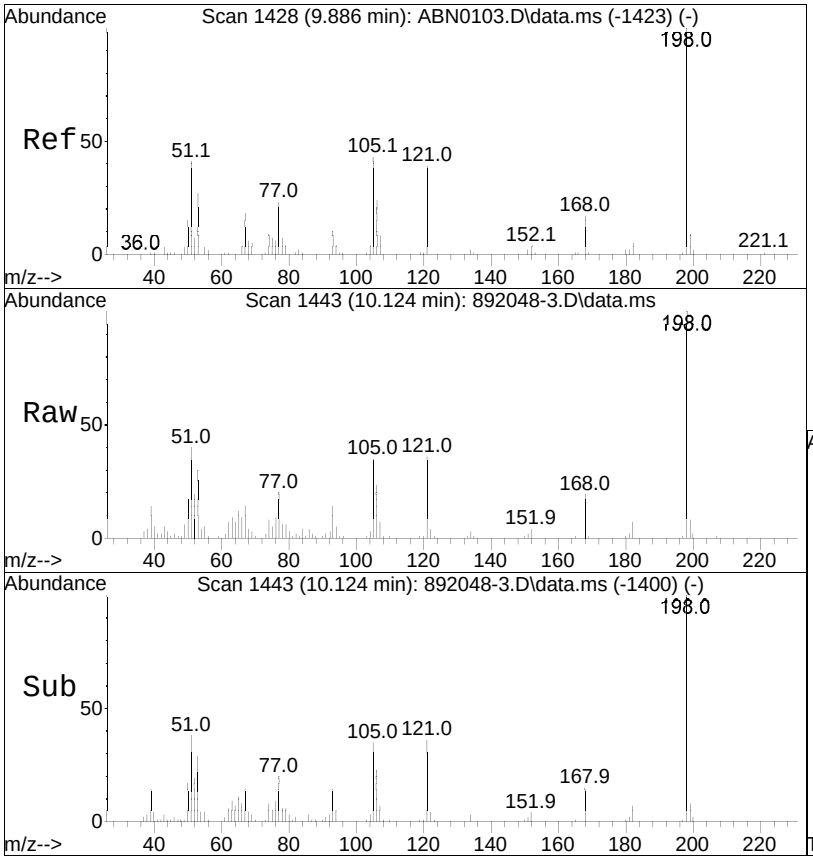


#74
4-Nitroaniline
Concen: 3.65 ug/ml
RT: 10.089 min Scan# 1437
Delta R.T. 0.000 min
Lab File: 892048-3.D
Acq: 5 Mar 2024 5:43 am

Tgt Ion:138 Resp: 28900

Ion	Ratio	Lower	Upper
138	100		
108	77.9	52.1	78.1
65	134.1	115.0	172.6

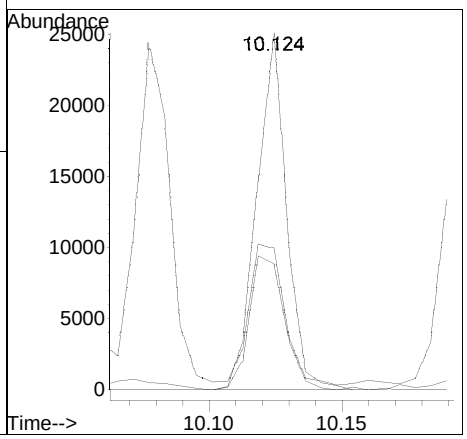


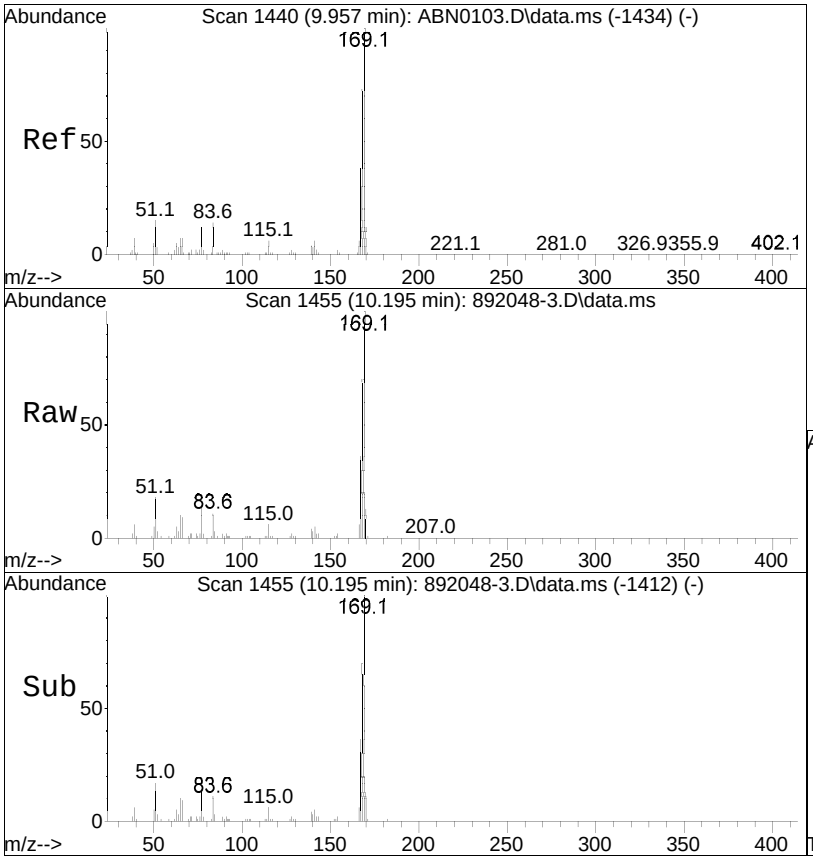


#75
4,6-Dinitro-o-cresol
Concen: 4.48 ug/ml
RT: 10.124 min Scan# 1443
Delta R.T. 0.000 min
Lab File: 892048-3.D
Acq: 5 Mar 2024 5:43 am

Tgt Ion:198 Resp: 19527

Ion	Ratio	Lower	Upper
198	100		
51	48.3	76.0	114.0#
105	44.5	45.6	68.4#

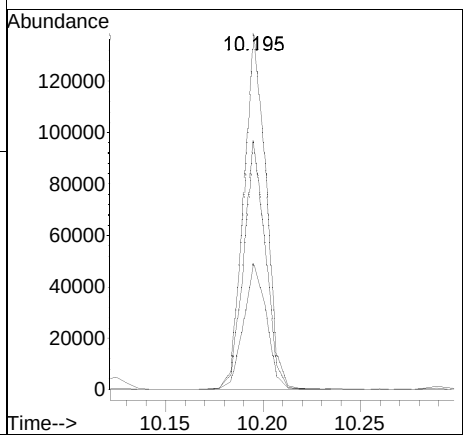


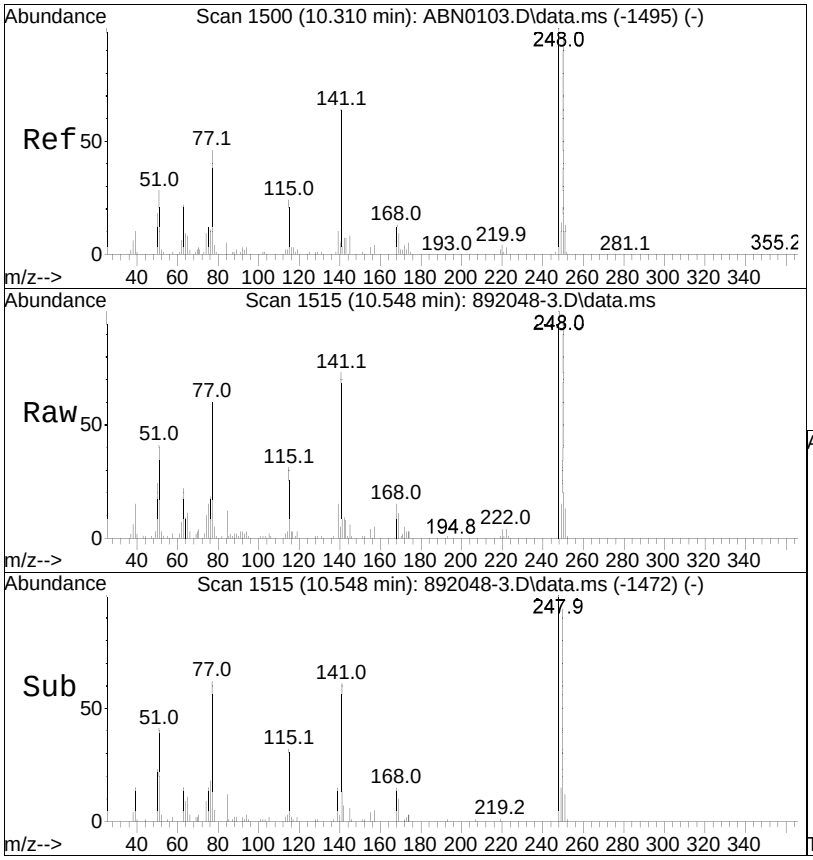


#76
NDPA/DPA
Concen: 3.58 ug/ml
RT: 10.195 min Scan# 1455
Delta R.T. 0.000 min
Lab File: 892048-3.D
Acq: 5 Mar 2024 5:43 am

Tgt Ion:169 Resp: 110206

Ion	Ratio	Lower	Upper
169	100		
168	68.3	54.0	81.0
167	36.3	28.6	42.8

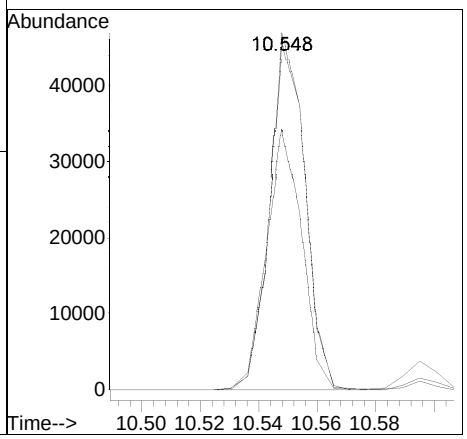


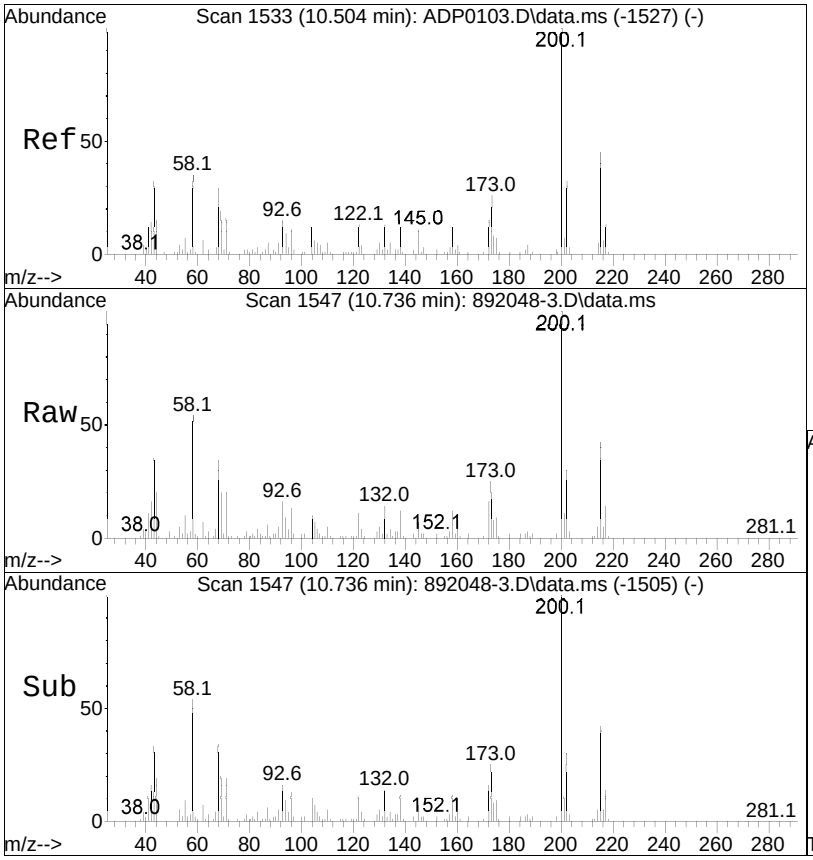


#79
4-Bromophenyl phenyl ether
Concen: 3.82 ug/ml
RT: 10.548 min Scan# 1515
Delta R.T. 0.000 min
Lab File: 892048-3.D
Acq: 5 Mar 2024 5:43 am

Tgt Ion:248 Resp: 38820

Ion	Ratio	Lower	Upper
248	100		
141	74.1	76.6	114.8#
250	99.2	77.3	115.9

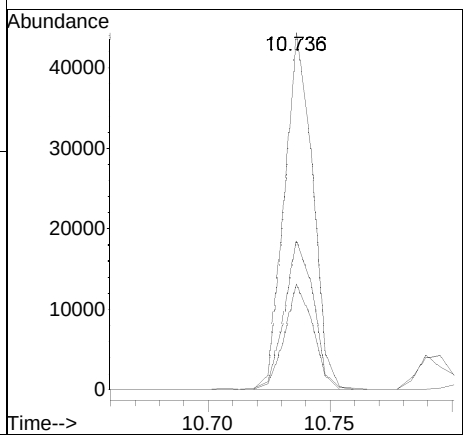


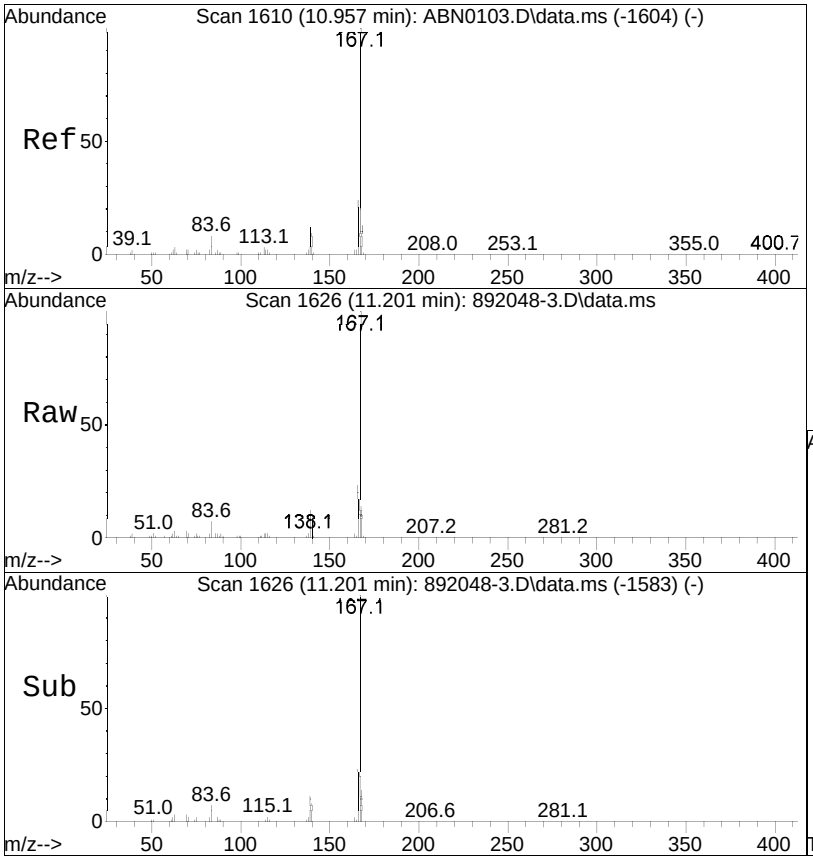


#86
Atrazine
Concen: 3.76 ug/ml
RT: 10.736 min Scan# 1547
Delta R.T. -0.000 min
Lab File: 892048-3.D
Acq: 5 Mar 2024 5:43 am

Tgt Ion:200 Resp: 35557

Ion	Ratio	Lower	Upper
200	100		
202	29.6	25.8	38.6
215	42.9	40.2	60.4

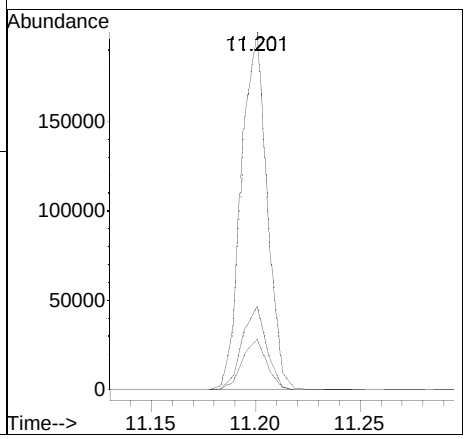


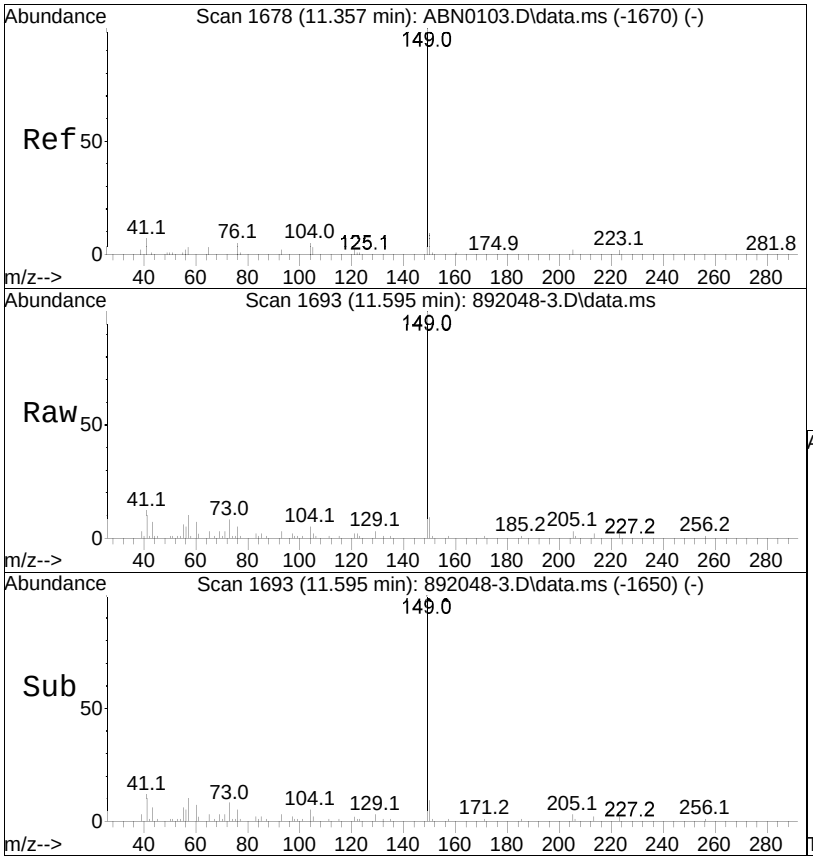


#90
Carbazole
Concen: 3.40 ug/ml
RT: 11.201 min Scan# 1626
Delta R.T. 0.000 min
Lab File: 892048-3.D
Acq: 5 Mar 2024 5:43 am

Tgt Ion:167 Resp: 170084

Ion	Ratio	Lower	Upper
167	100		
168	13.7	10.6	15.8
166	22.3	17.4	26.0

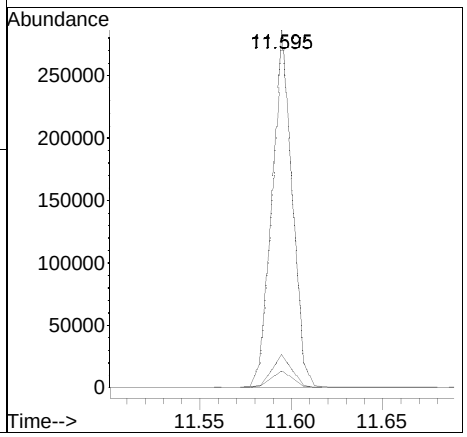


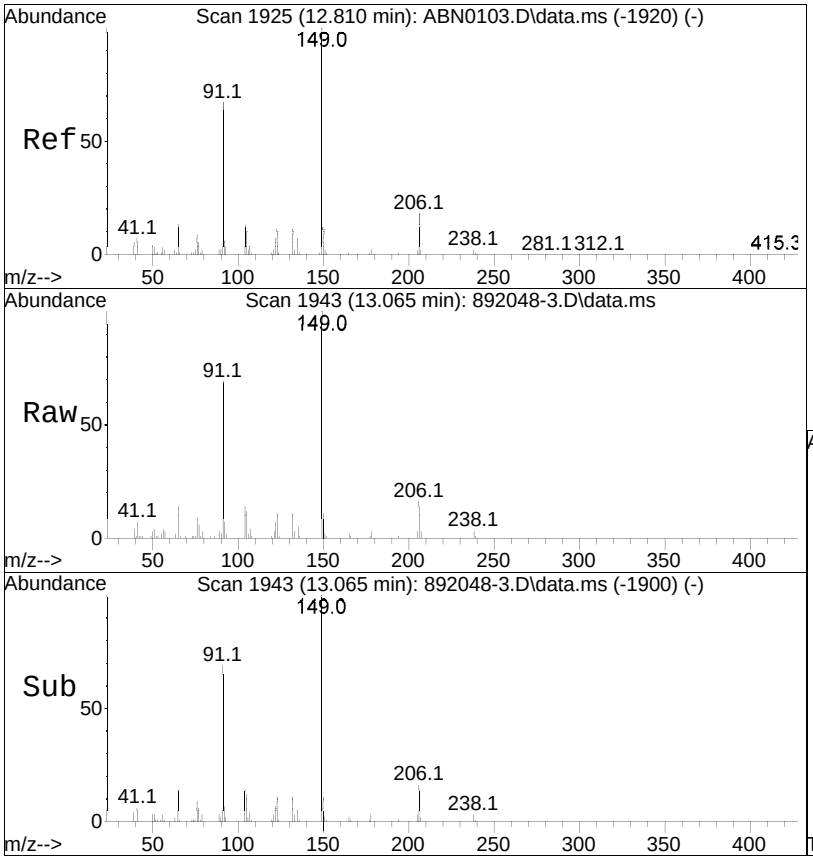


#91
Di-n-butylphthalate
Concen: 3.36 ug/ml
RT: 11.595 min Scan# 1693
Delta R.T. 0.000 min
Lab File: 892048-3.D
Acq: 5 Mar 2024 5:43 am

Tgt Ion:149 Resp: 215462

Ion	Ratio	Lower	Upper
149	100		
150	9.3	7.0	10.6
104	4.9	4.5	6.7

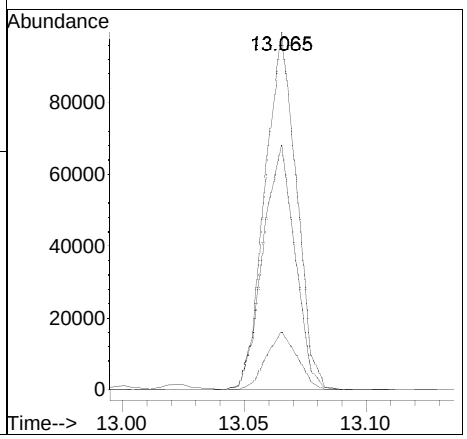


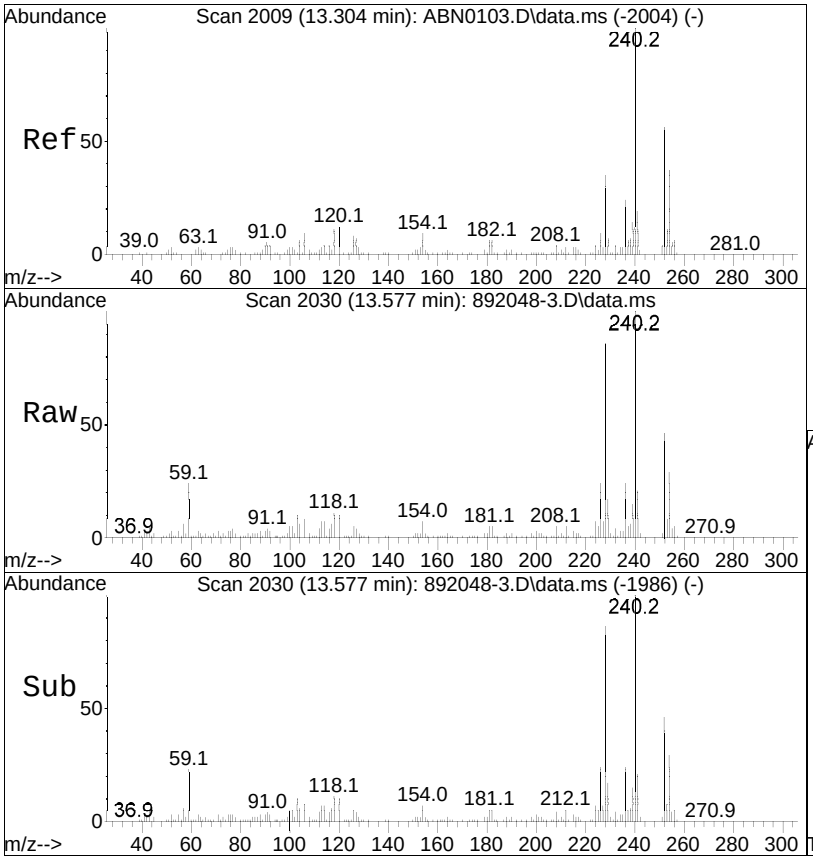


#96
Butyl benzyl phthalate
Concen: 3.24 ug/ml
RT: 13.065 min Scan# 1943
Delta R.T. 0.000 min
Lab File: 892048-3.D
Acq: 5 Mar 2024 5:43 am

Tgt Ion:149 Resp: 88573

Ion	Ratio	Lower	Upper
149	100		
91	69.8	63.3	94.9
206	16.2	13.9	20.9

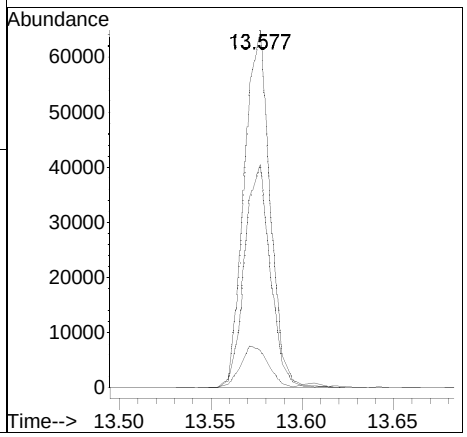


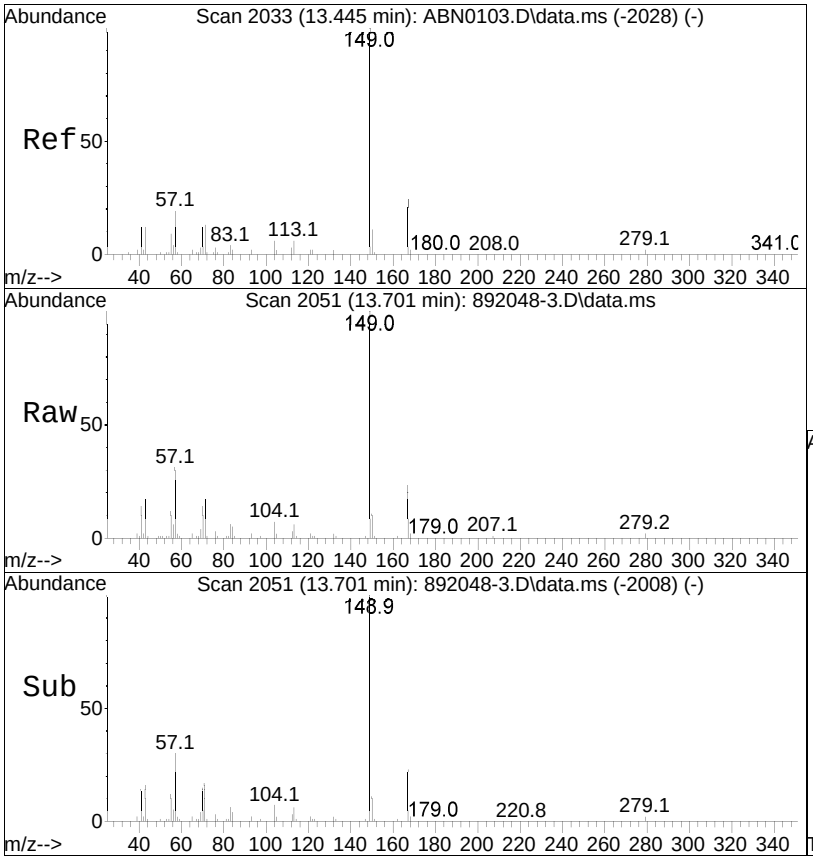


#105
3,3'-Dichlorobenzidine
Concen: 3.74 ug/ml
RT: 13.577 min Scan# 2030
Delta R.T. 0.006 min
Lab File: 892048-3.D
Acq: 5 Mar 2024 5:43 am

Tgt Ion:252 Resp: 63769

Ion	Ratio	Lower	Upper
252	100		
126	12.8	14.5	21.7#
254	62.1	51.2	76.8

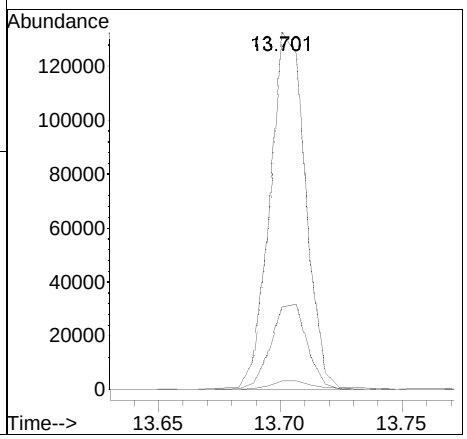


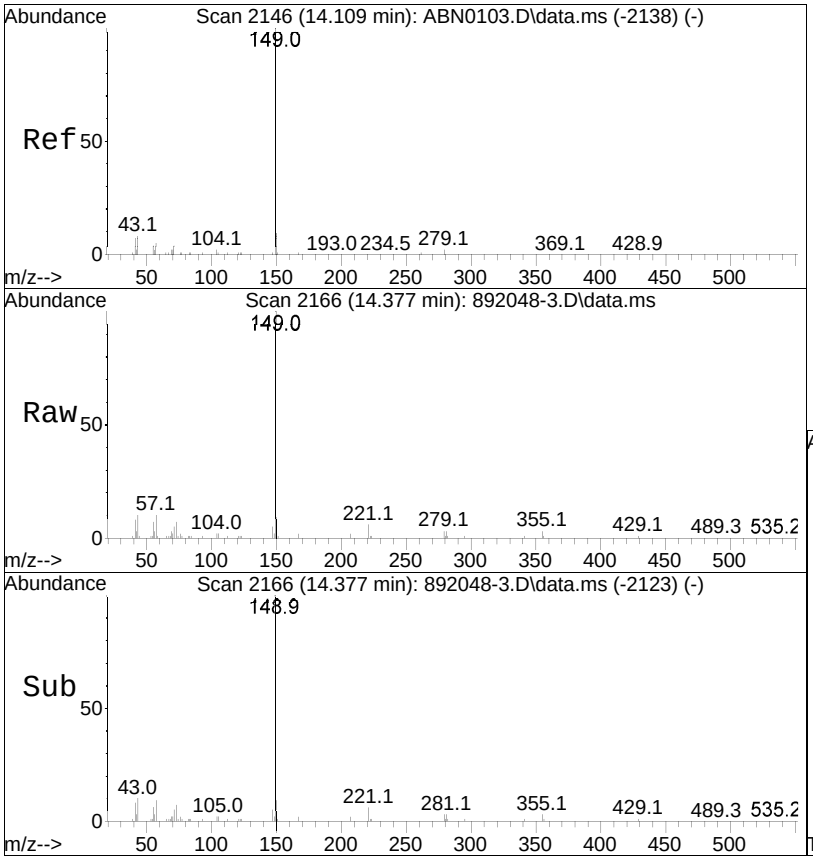


#107
Bis(2-ethylhexyl)phthalate
Concen: 4.16 ug/ml
RT: 13.701 min Scan# 2051
Delta R.T. 0.000 min
Lab File: 892048-3.D
Acq: 5 Mar 2024 5:43 am

Tgt Ion:149 Resp: 133501

Ion	Ratio	Lower	Upper
149	100		
167	24.3	22.1	33.1
279	3.0	3.0	4.4

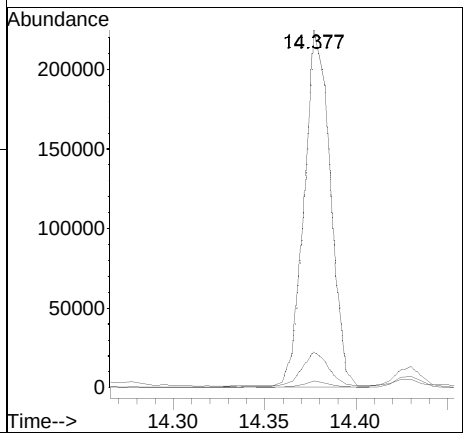




#108
Di-n-octylphthalate
Concen: 4.07 ug/ml
RT: 14.377 min Scan# 2166
Delta R.T. 0.000 min
Lab File: 892048-3.D
Acq: 5 Mar 2024 5:43 am

Tgt Ion:149 Resp: 220666

Ion	Ratio	Lower	Upper
149	100		
43	10.1	18.8	28.2#
167	1.6	1.3	1.9



Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240304nlvi\
Data File : 892048-4.D
Acq On : 5 Mar 2024 7:42 am
Operator : SV106:ljg
Sample : WG1892048-4,32,,gmr
Misc : WG1891342,WG1892048,ical20337
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Mar 05 11:23:20 2024
Quant Method : I:\8270\SV106\240304nlvi\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Mar 05 11:20:52 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv106\240304nlvi\ABN0304n.D
: 2 - I:\8270\sv106\240304nlvi\ADP0304n.D
: 3 - I:\8270\sv106\240304nlvi\AP90304n.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	6.331	152	55876	4.000	ug/ml	0.00
Standard Area 1 = 44264			Recovery = 126.23%			
27) IS2_1,4-Dichlorobenzen...	6.331	152	55876	4.000	ug/ml	0.00
Standard Area 3 = 45624			Recovery = 122.47%			
34) IS1_Naphthalene-d8	7.760	136	206090	4.000	ug/ml	0.00
Standard Area 1 = 170941			Recovery = 120.56%			
54) IS2_Naphthalene-d8	7.760	136	206090	4.000	ug/ml	0.00
Standard Area 3 = 165553			Recovery = 124.49%			
62) IS1_Acenaphthene-d10	9.525	164	118447	4.000	ug/ml	0.00
Standard Area 1 = 107442			Recovery = 110.24%			
82) IS2_Acenaphthene-d10	9.525	164	118447	4.000	ug/ml	0.00
Standard Area 3 = 100303			Recovery = 118.09%			
85) IS3_Acenaphthene-d10	9.525	164	118447	4.000	ug/ml	0.00
Standard Area 2 = 98087			Recovery = 120.76%			
87) IS1_Phenanthrene-d10	10.960	188	212868	4.000	ug/ml	0.00
Standard Area 1 = 227092			Recovery = 93.74%			
99) IS3_Phenanthrene-d10	10.960	188	212868	4.000	ug/ml	0.00
Standard Area 2 = 217156			Recovery = 98.03%			
103) IS1_Chrysene-d12	13.583	240	150954	4.000	ug/ml	0.00
Standard Area 1 = 207444			Recovery = 72.77%			
112) IS1_Perylene-d12	15.042	264	161447	4.000	ug/ml	0.00
Standard Area 1 = 227846			Recovery = 70.86%			
System Monitoring Compounds						
4) 2-Fluorophenol	4.360	112	47989	3.080	ug/ml	0.01
Spiked Amount 5.000	Range 15 - 110		Recovery = 61.60%			
7) Phenol-d6	5.966	99	53973	2.689	ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 53.78%			
19) Nitrobenzene-d5	6.989	82	32432	1.782	ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 71.28%			
45) 2-Fluorobiphenyl	8.889	172	71658	1.821	ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 72.84%			
78) 2,4,6-Tribromophenol	10.295	330	18878	3.474	ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 69.48%			
95) 4-Terphenyl-d14	12.542	244	73842	1.582	ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 63.28%			

Data Path : I:\8270\SV106\240304nlvi\
Data File : 892048-4.D
Acq On : 5 Mar 2024 7:42 am
Operator : SV106:ljg
Sample : WG1892048-4,32,,gmr
Misc : WG1891342,WG1892048,ical20337
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Mar 05 11:23:20 2024
Quant Method : I:\8270\SV106\240304nlvi\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Mar 05 11:20:52 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv106\240304nlvi\ABN0304n.D
: 2 - I:\8270\sv106\240304nlvi\ADP0304n.D
: 3 - I:\8270\sv106\240304nlvi\AP90304n.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Target Compounds						Qvalue
6) 2-Chlorophenol	6.060	128	60344	3.390	ug/ml	94
8) Phenol	5.978	94	59522	2.801	ug/ml	98
9) Bis(2-chloroethyl)ether	6.048	93	57893	3.392	ug/ml#	80
14) Bis(2-chloroisopropyl)...	6.719	45	91719	3.649	ug/ml#	56
15) 2-Methylphenol	6.719	108	50605	3.184	ug/ml	98
17) n-Nitrosodi-n-propylamine	6.872	70	44765	3.471	ug/ml	93
18) 3-Methylphenol/4-Methy...	6.907	108	60838	3.649	ug/ml	93
20) Nitrobenzene	7.013	77	67623	3.739	ug/ml	97
21) Isophorone	7.295	82	119594	3.455	ug/ml	94
22) 2-Nitrophenol	7.372	139	29629	4.096	ug/ml#	92
23) 2,4-Dimethylphenol	7.478	107	45951	2.568	ug/ml	99
24) Bis(2-chloroethoxy)met...	7.572	93	79581	3.670	ug/ml	99
25) 2,4-Dichlorophenol	7.642	162	54874	3.652	ug/ml	94
28) Benzaldehyde	5.742	105	49697	3.832	ug/ml	97
29) Acetophenone	6.831	105	89563	3.215	ug/ml#	82
37) 4-Chloroaniline	7.872	65	23102	3.396	ug/ml	86
39) p-Chloro-m-cresol	8.401	107	54994	3.662	ug/ml	99
42) Hexachlorocyclopentadiene	8.678	237	36256	3.209	ug/ml	96
43) 2,4,6-Trichlorophenol	8.801	196	43433	4.042	ug/ml	94
44) 2,4,5-Trichlorophenol	8.830	196	44637	3.862	ug/ml	95
47) 2-Nitroaniline	9.095	138	32848	3.585	ug/ml	95
50) Dimethyl phthalate	9.301	163	144450	3.561	ug/ml#	98
52) 2,6-Dinitrotoluene	9.342	165	32867	4.281	ug/ml#	80
59) Caprolactam	8.189	55	14250	1.886	ug/ml#	69
60) 1,2,4,5-Tetrachloroben...	8.678	216	69444	3.874	ug/ml	96
61) Biphenyl	8.978	154	160136	3.632	ug/ml	99
63) 3-Nitroaniline	9.501	138	26733	3.155	ug/ml	91
65) 2,4-Dinitrophenol	9.601	184	17551	4.783	ug/ml	94
66) Dibenzofuran	9.725	168	181168	3.620	ug/ml	97
67) 2,4-Dinitrotoluene	9.730	165	44129	4.199	ug/ml	94
68) 4-Nitrophenol	9.695	65	23640	3.122	ug/ml#	88
70) 2,3,4,6-Tetrachlorophenol	9.860	232	36902	3.696	ug/ml	97
71) Diethyl phthalate	9.995	149	142604	3.404	ug/ml	98
73) 4-Chlorophenyl phenyl ...	10.083	204	71310	3.779	ug/ml	92
74) 4-Nitroaniline	10.089	138	24465	2.861	ug/ml#	89
75) 4,6-Dinitro-o-cresol	10.124	198	24726	5.051	ug/ml#	64

Data Path : I:\8270\SV106\240304nlvi\
Data File : 892048-4.D
Acq On : 5 Mar 2024 7:42 am
Operator : SV106:ljg
Sample : WG1892048-4,32,,gmr
Misc : WG1891342,WG1892048,ical20337
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Mar 05 11:23:20 2024
Quant Method : I:\8270\SV106\240304nlvi\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Mar 05 11:20:52 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv106\240304nlvi\ABN0304n.D
: 2 - I:\8270\sv106\240304nlvi\ADP0304n.D
: 3 - I:\8270\sv106\240304nlvi\AP90304n.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
76)	NDPA/DPA	10.195	169	112742	3.388	ug/ml	99
79)	4-Bromophenyl phenyl e...	10.548	248	41151	3.747	ug/ml#	87
86)	Atrazine	10.736	200	36227	3.550	ug/ml	93
90)	Carbazole	11.201	167	177644	3.369	ug/ml	100
91)	Di-n-butylphthalate	11.595	149	222355	3.293	ug/ml	99
96)	Butyl benzyl phthalate	13.065	149	86075	2.987	ug/ml	92
105)	3,3'-Dichlorobenzidine	13.577	252	34305	1.927	ug/ml#	97
107)	Bis(2-ethylhexyl)phtha...	13.707	149	124832	3.722	ug/ml#	95
108)	Di-n-octylphthalate	14.383	149	205760	3.637	ug/ml#	74

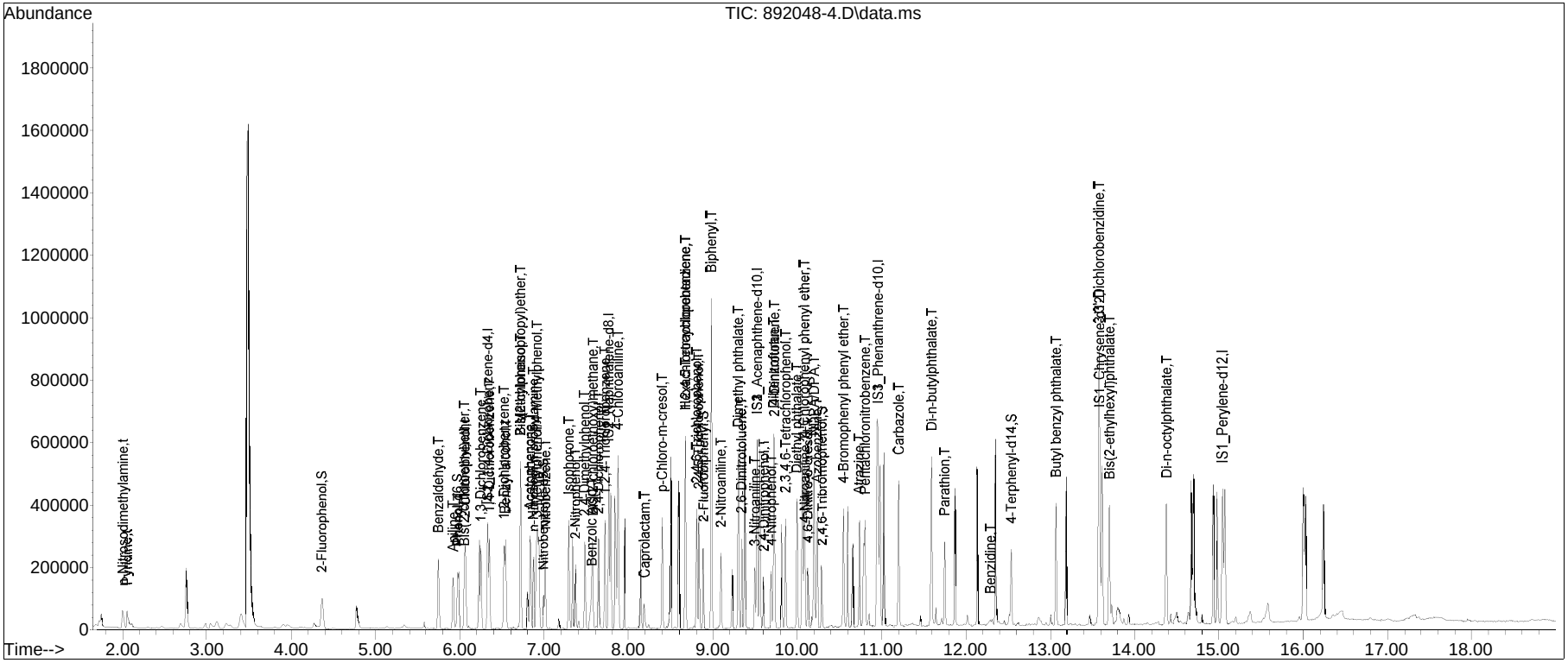
(#) = qualifier out of range (m) = manual integration (+) = signals summed

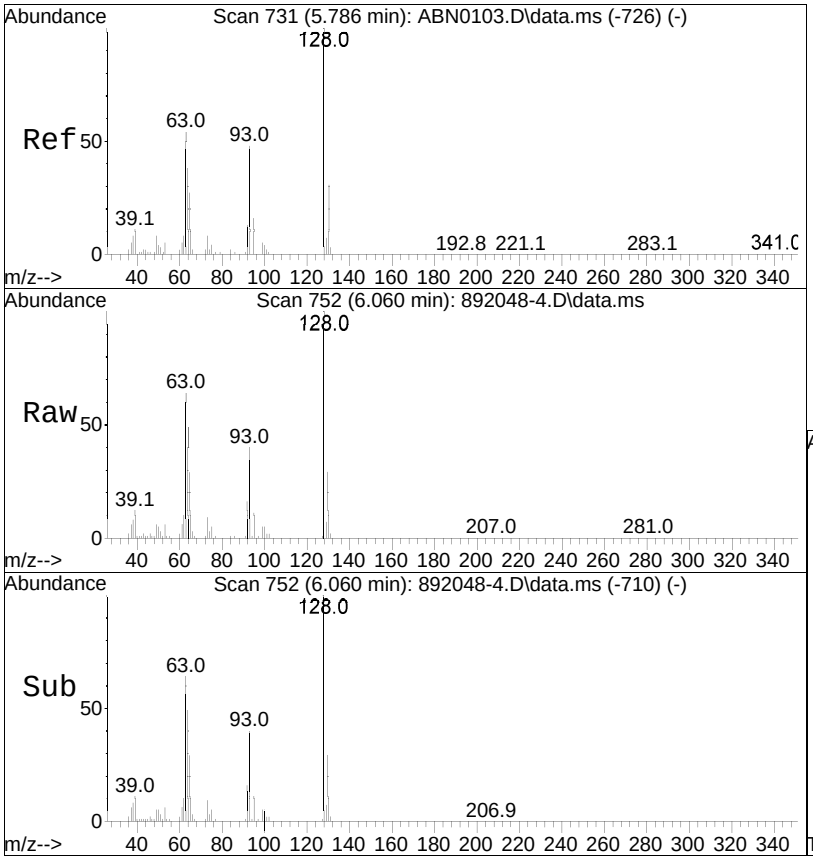
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240304nlvi\
Data File : 892048-4.D
Acq On : 5 Mar 2024 7:42 am
Operator : SV106:ljg
Sample : WG1892048-4,32,,gmr
Misc : WG1891342,WG1892048,ical20337
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Mar 05 11:23:20 2024
Quant Method : I:\8270\SV106\240304nlvi\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Mar 05 11:20:52 2024
Response via : Initial Calibration

Sub List : 8270TCL_combo_REV1 - TCL/CT/MAP90304n.D•

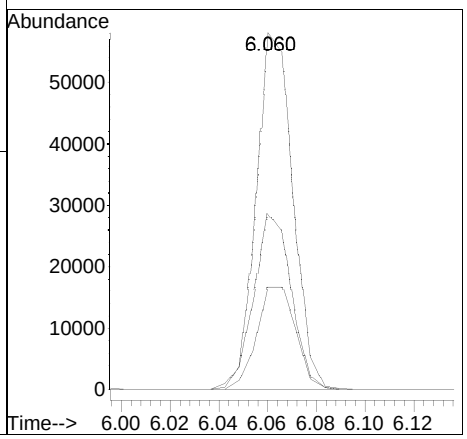


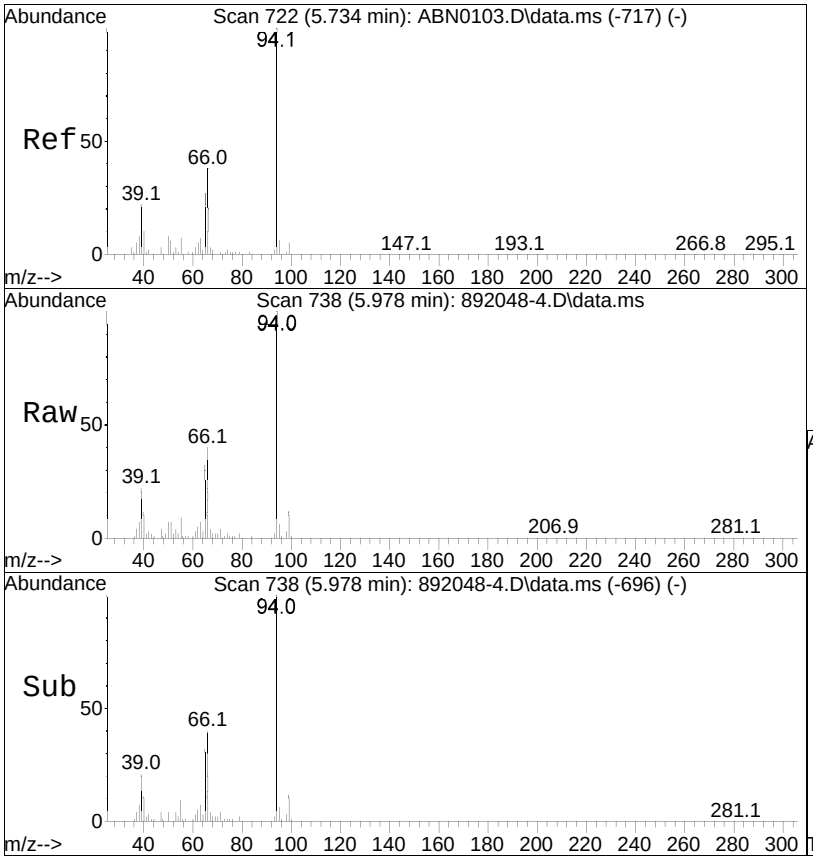


#6
2-Chlorophenol
Concen: 3.39 ug/ml
RT: 6.060 min Scan# 752
Delta R.T. -0.006 min
Lab File: 892048-4.D
Acq: 5 Mar 2024 7:42 am

Tgt Ion:128 Resp: 60344

Ion	Ratio	Lower	Upper
128	100		
64	51.0	45.1	67.7
130	30.9	26.2	39.4

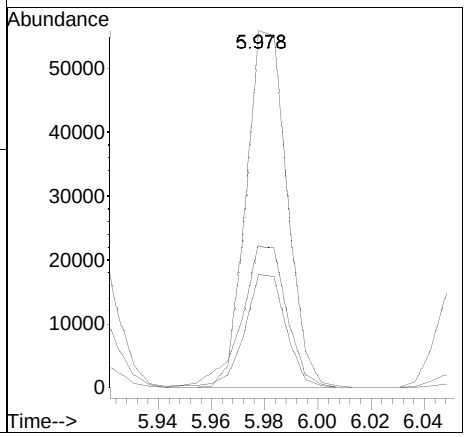


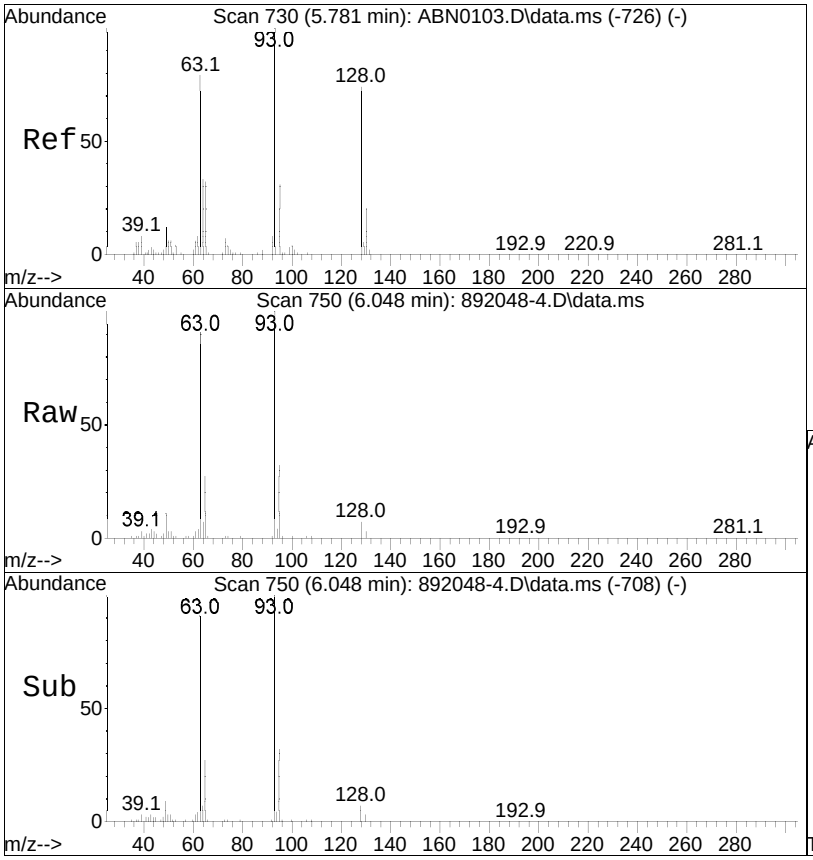


#8
Phenol
Concen: 2.80 ug/ml
RT: 5.978 min Scan# 738
Delta R.T. -0.006 min
Lab File: 892048-4.D
Acq: 5 Mar 2024 7:42 am

Tgt Ion: 94 Resp: 59522

Ion	Ratio	Lower	Upper
94	100		
65	32.2	26.0	39.0
66	44.2	33.8	50.8

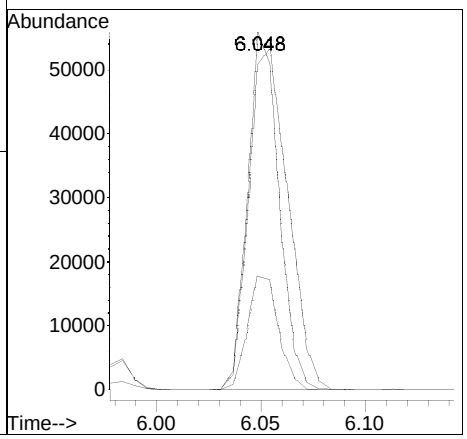


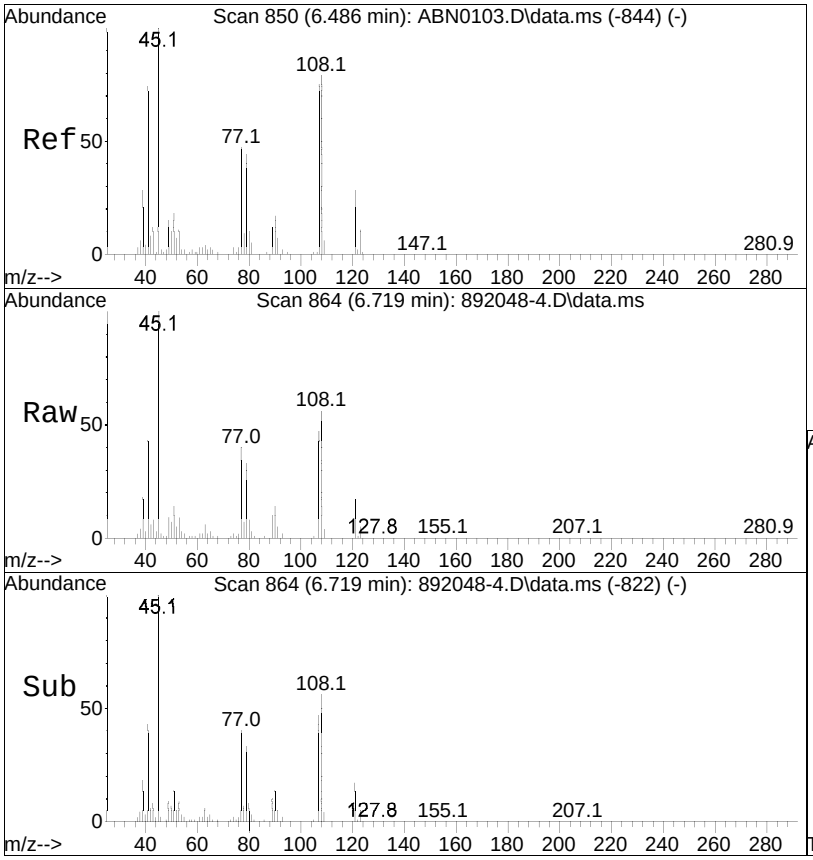


#9
Bis(2-chloroethyl)ether
Concen: 3.39 ug/ml
RT: 6.048 min Scan# 750
Delta R.T. -0.006 min
Lab File: 892048-4.D
Acq: 5 Mar 2024 7:42 am

Tgt Ion: 93 Resp: 57893

Ion	Ratio	Lower	Upper
93	100		
63	119.2	74.6	111.8#
95	31.7	25.9	38.9

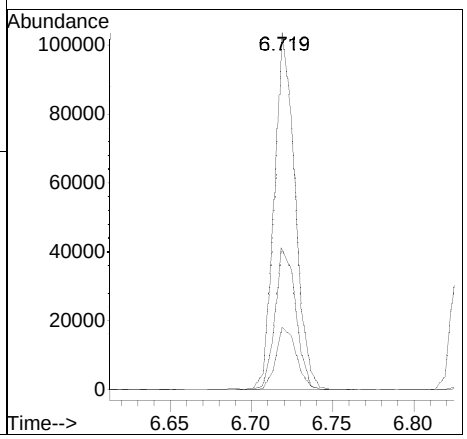


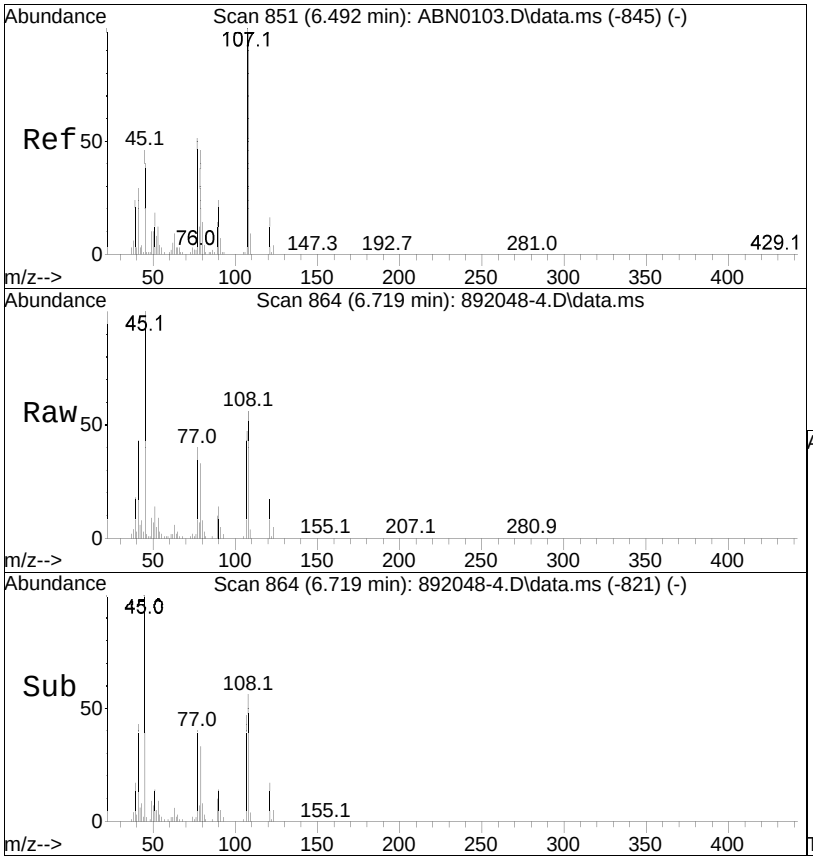


#14
Bis(2-chloroisopropyl)ether
Concen: 3.65 ug/ml
RT: 6.719 min Scan# 864
Delta R.T. -0.006 min
Lab File: 892048-4.D
Acq: 5 Mar 2024 7:42 am

Tgt Ion: 45 Resp: 91719

Ion	Ratio	Lower	Upper
45	100		
121	17.5	9.8	14.6#
77	40.3	6.1	9.1#

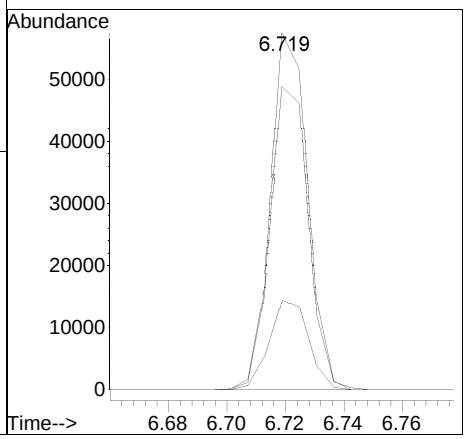


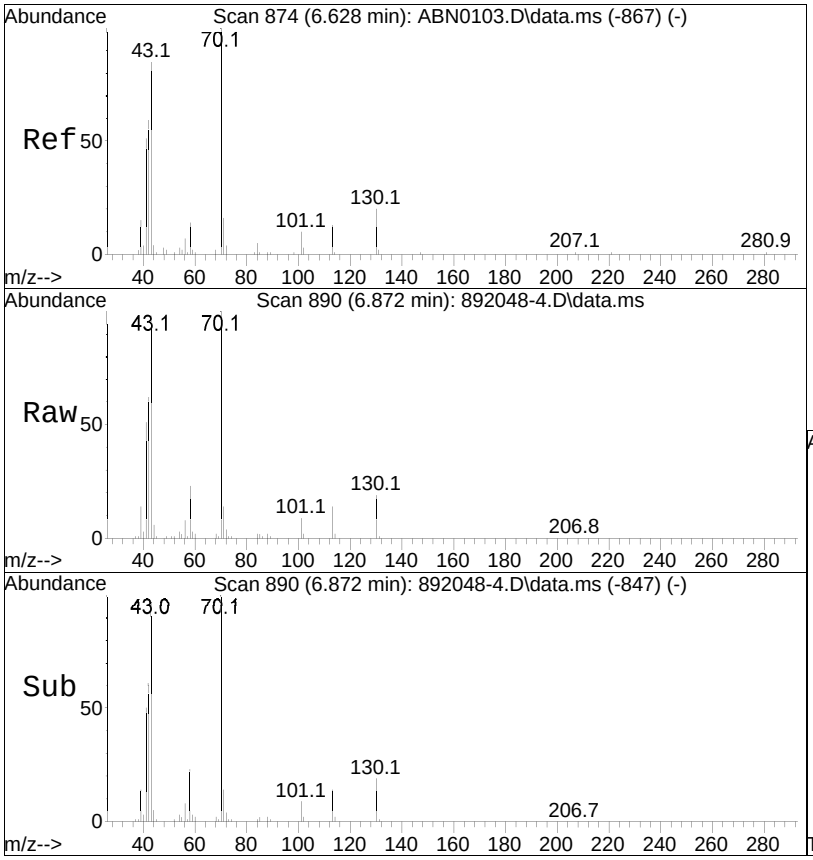


#15
2-Methylphenol
Concen: 3.18 ug/ml
RT: 6.719 min Scan# 864
Delta R.T. 0.000 min
Lab File: 892048-4.D
Acq: 5 Mar 2024 7:42 am

Tgt Ion:108 Resp: 50605

Ion	Ratio	Lower	Upper
108	100		
107	87.7	70.7	106.1
90	26.6	18.7	28.1

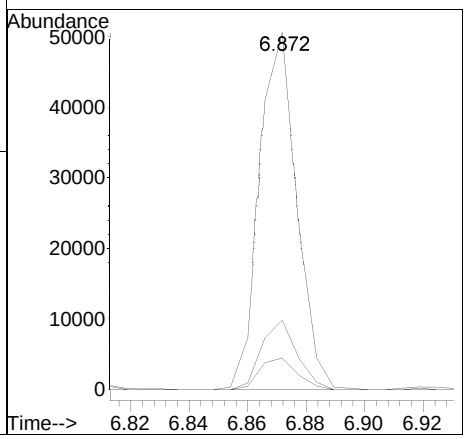


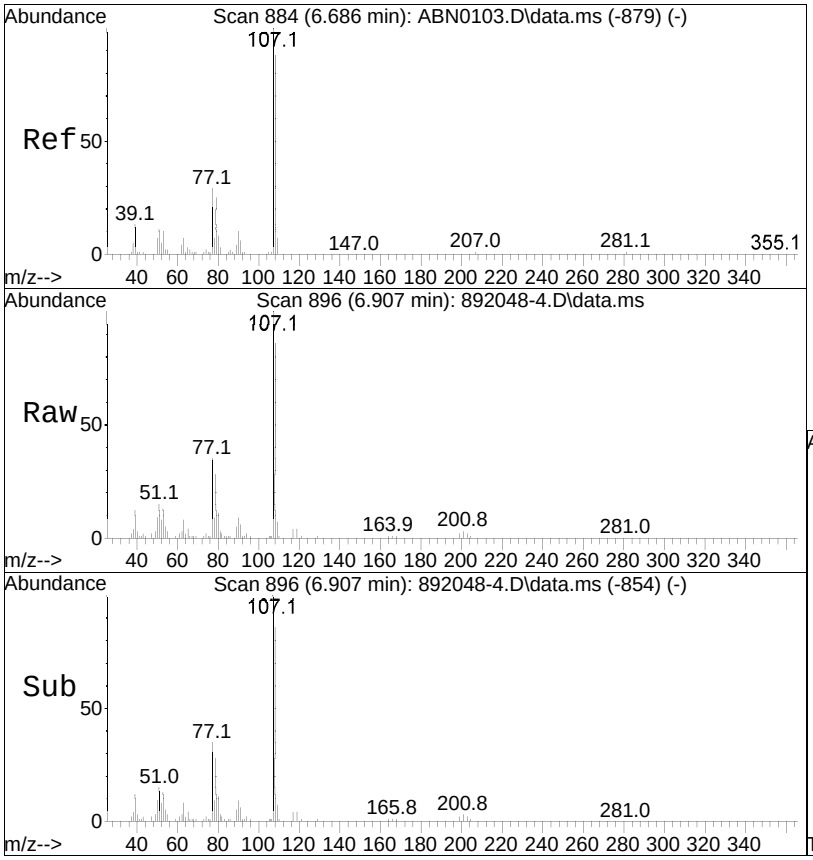


#17
n-Nitrosodi-n-propylamine
Concen: 3.47 ug/ml
RT: 6.872 min Scan# 890
Delta R.T. 0.000 min
Lab File: 892048-4.D
Acq: 5 Mar 2024 7:42 am

Tgt Ion: 70 Resp: 44765

Ion	Ratio	Lower	Upper
70	100		
130	18.5	18.2	27.4
101	8.9	7.8	11.8

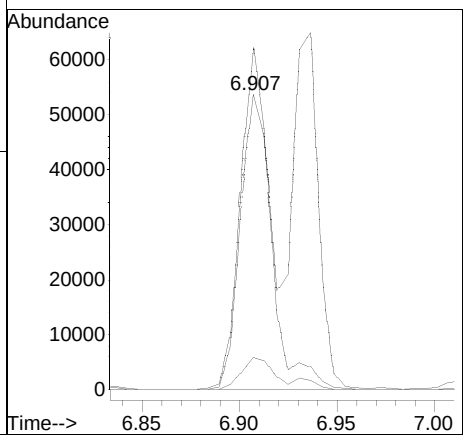


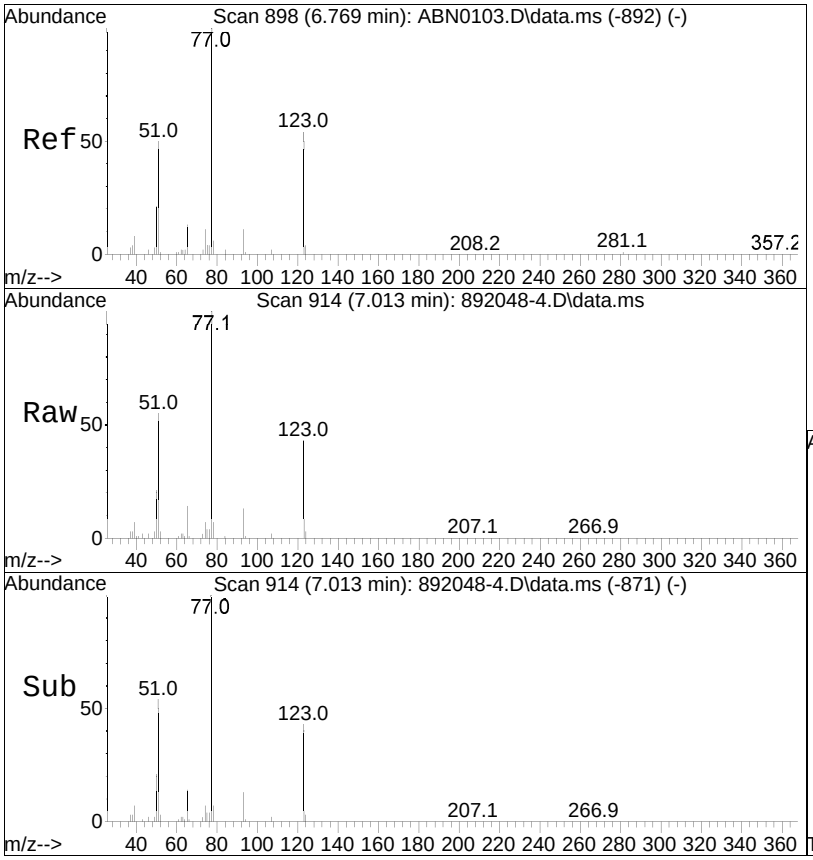


#18
3-Methylphenol/4-Methylphenol
Concen: 3.65 ug/ml
RT: 6.907 min Scan# 896
Delta R.T. -0.006 min
Lab File: 892048-4.D
Acq: 5 Mar 2024 7:42 am

Tgt Ion:108 Resp: 60838

Ion	Ratio	Lower	Upper
108	100		
107	103.1	88.6	132.8
90	13.1	8.8	13.2

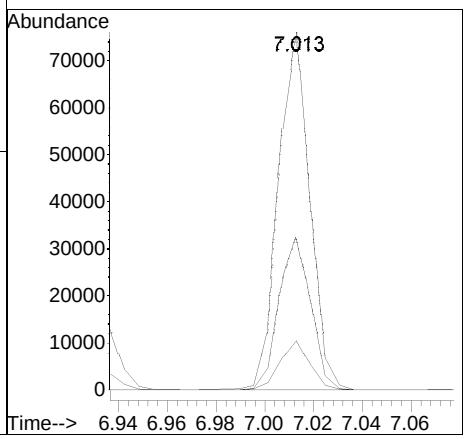


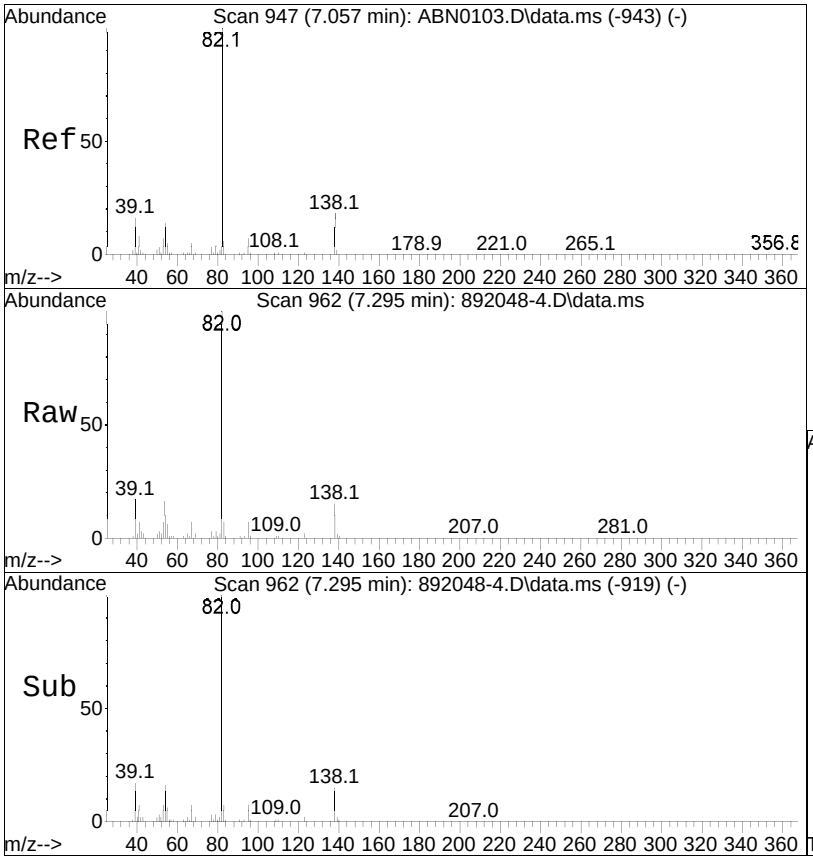


#20
Nitrobenzene
Concen: 3.74 ug/ml
RT: 7.013 min Scan# 914
Delta R.T. 0.000 min
Lab File: 892048-4.D
Acq: 5 Mar 2024 7:42 am

Tgt Ion: 77 Resp: 67623

Ion	Ratio	Lower	Upper
77	100		
123	43.2	36.3	54.5
65	13.3	11.6	17.4

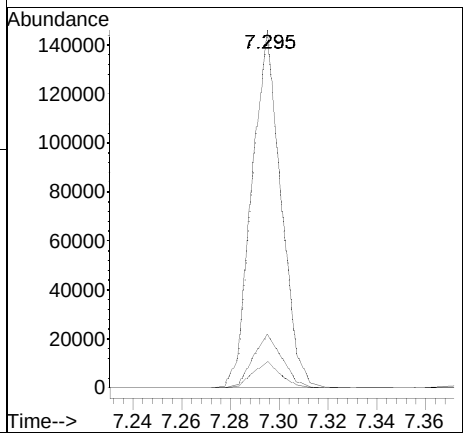


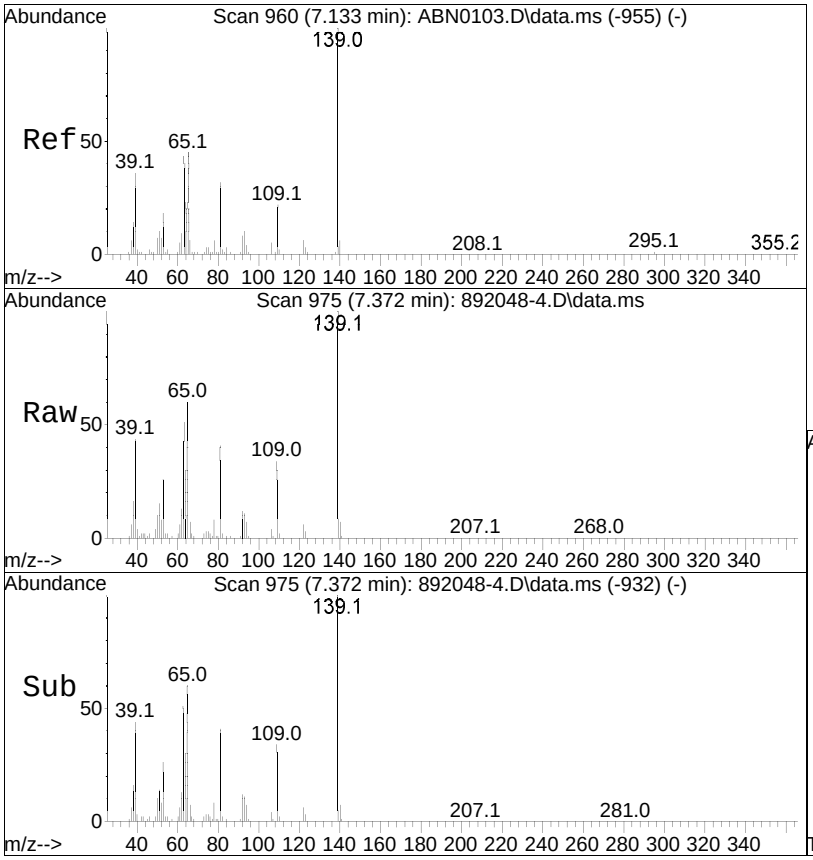


#21
Isophorone
Concen: 3.46 ug/ml
RT: 7.295 min Scan# 962
Delta R.T. 0.000 min
Lab File: 892048-4.D
Acq: 5 Mar 2024 7:42 am

Tgt Ion: 82 Resp: 119594

Ion	Ratio	Lower	Upper
82	100		
138	15.1	14.7	22.1
95	7.1	5.2	7.8

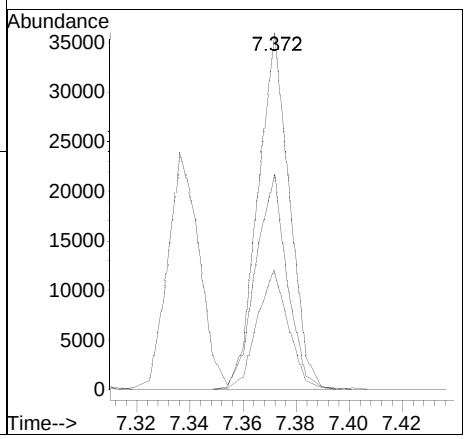


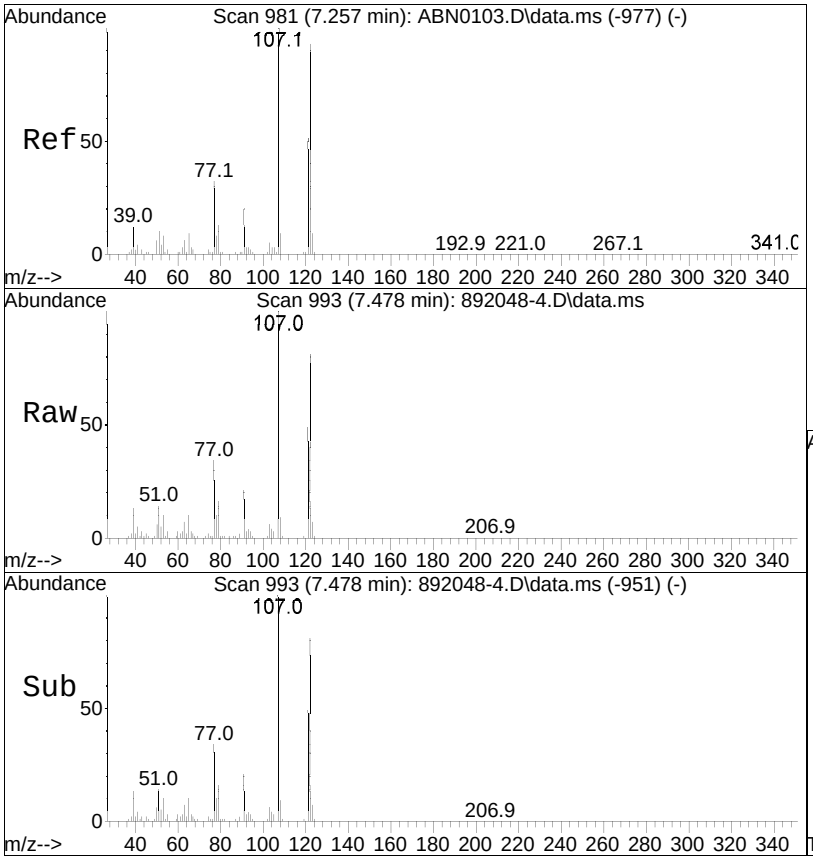


#22
2-Nitrophenol
Concen: 4.10 ug/ml
RT: 7.372 min Scan# 975
Delta R.T. 0.000 min
Lab File: 892048-4.D
Acq: 5 Mar 2024 7:42 am

Tgt Ion:139 Resp: 29629

Ion	Ratio	Lower	Upper
139	100		
109	33.4	19.4	29.0#
65	60.4	46.1	69.1

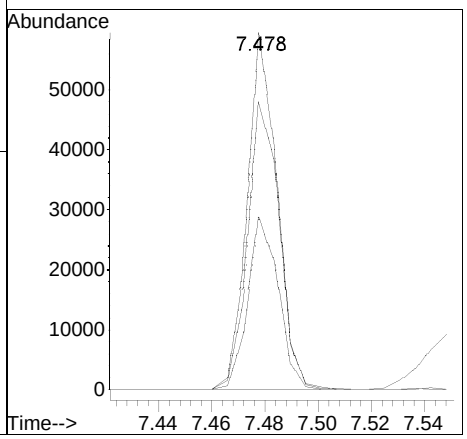


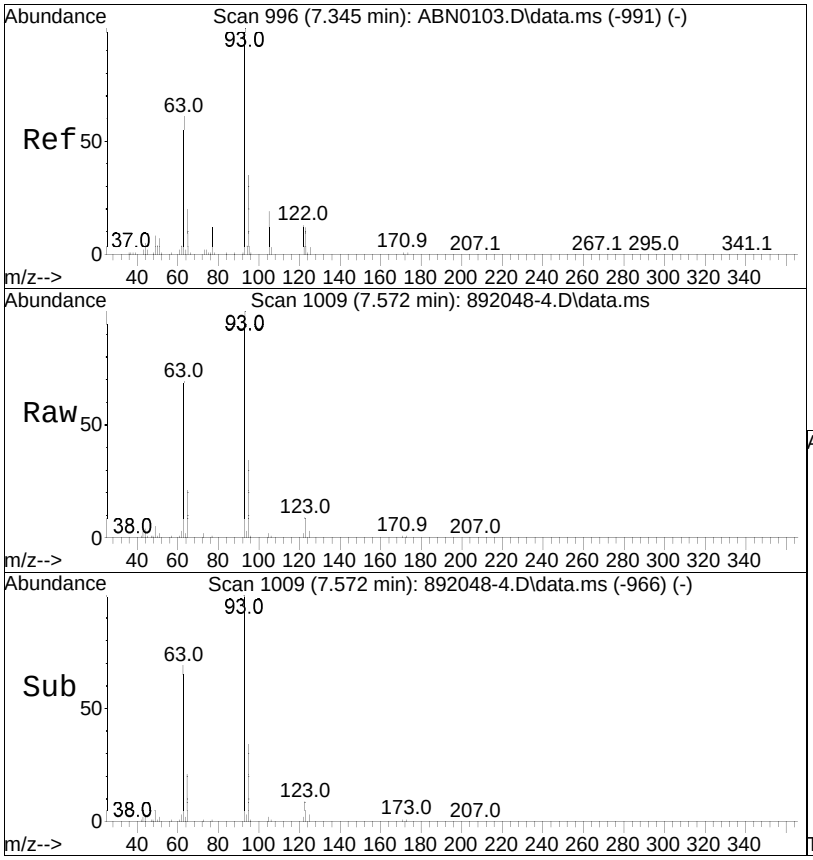


#23
2,4-Dimethylphenol
Concen: 2.57 ug/ml
RT: 7.478 min Scan# 993
Delta R.T. -0.006 min
Lab File: 892048-4.D
Acq: 5 Mar 2024 7:42 am

Tgt Ion:107 Resp: 45951

Ion	Ratio	Lower	Upper
107	100		
121	49.9	40.0	60.0
122	85.8	70.2	105.4

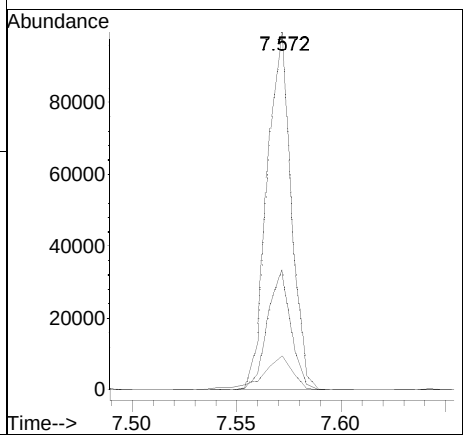


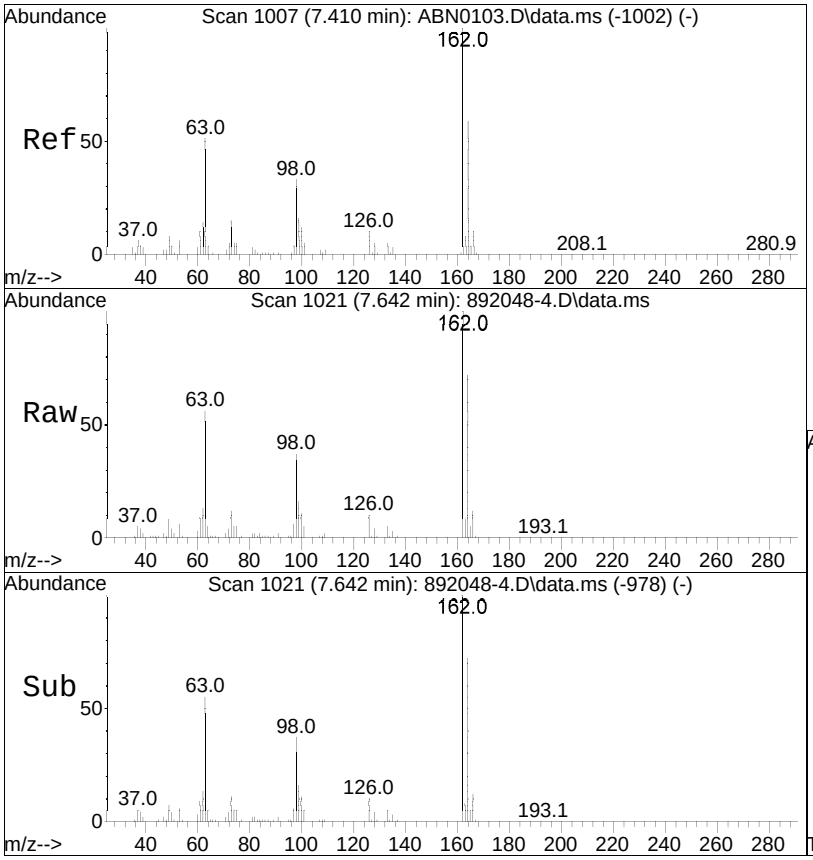


#24
Bis(2-chloroethoxy)methane
Concen: 3.67 ug/ml
RT: 7.572 min Scan# 1009
Delta R.T. 0.000 min
Lab File: 892048-4.D
Acq: 5 Mar 2024 7:42 am

Tgt Ion: 93 Resp: 79581

Ion	Ratio	Lower	Upper
93	100		
95	32.8	25.8	38.8
123	11.6	10.1	15.1

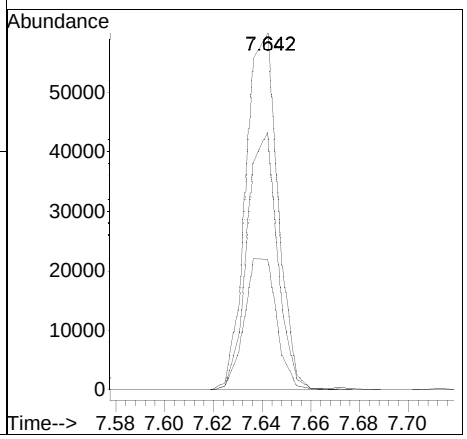


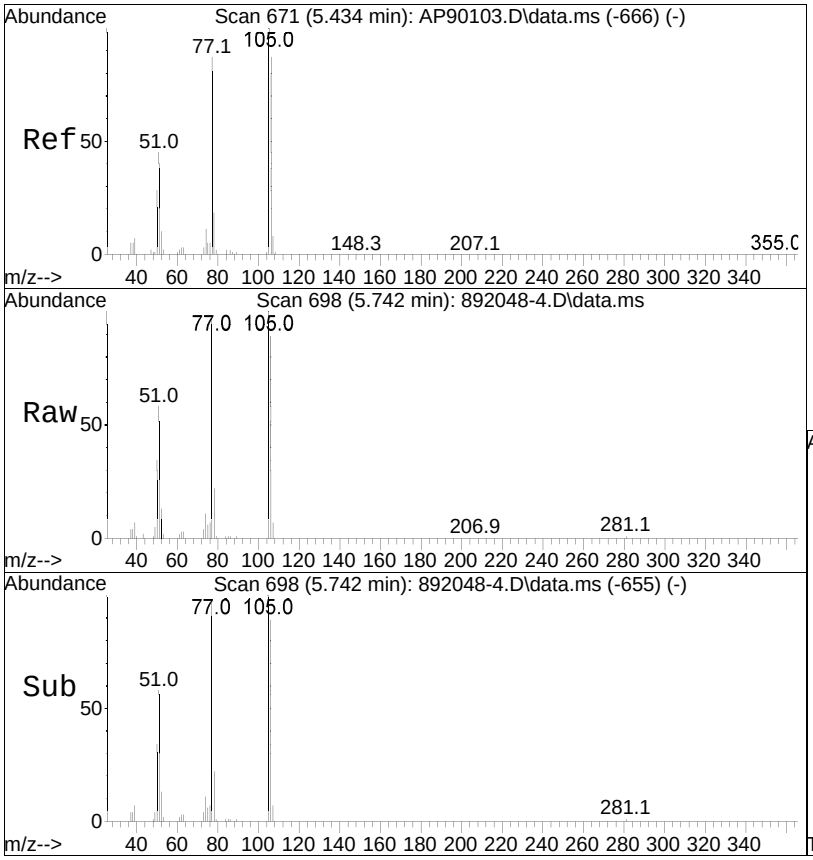


#25
2,4-Dichlorophenol
Concen: 3.65 ug/ml
RT: 7.642 min Scan# 1021
Delta R.T. 0.000 min
Lab File: 892048-4.D
Acq: 5 Mar 2024 7:42 am

Tgt Ion:162 Resp: 54874

Ion	Ratio	Lower	Upper
162	100		
164	68.4	51.0	76.4
98	37.3	32.2	48.2

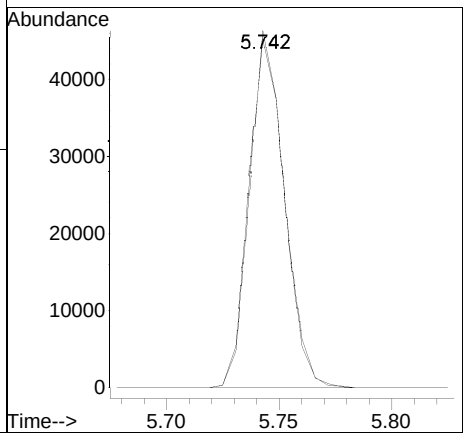


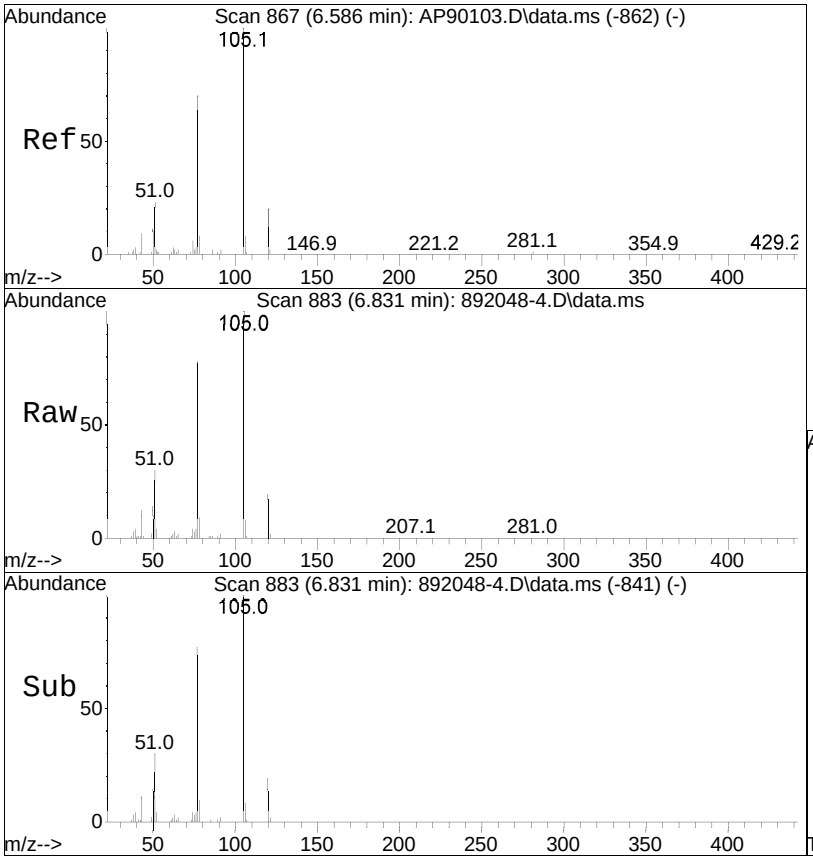


#28
Benzaldehyde
Concen: 3.83 ug/ml
RT: 5.742 min Scan# 698
Delta R.T. 0.000 min
Lab File: 892048-4.D
Acq: 5 Mar 2024 7:42 am

Tgt Ion:105 Resp: 49697

Ion	Ratio	Lower	Upper
105	100		
77	99.9	82.2	123.4

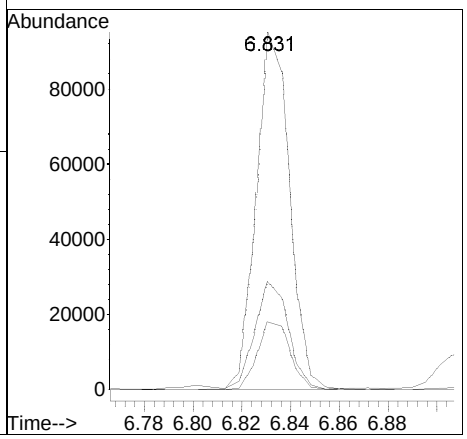


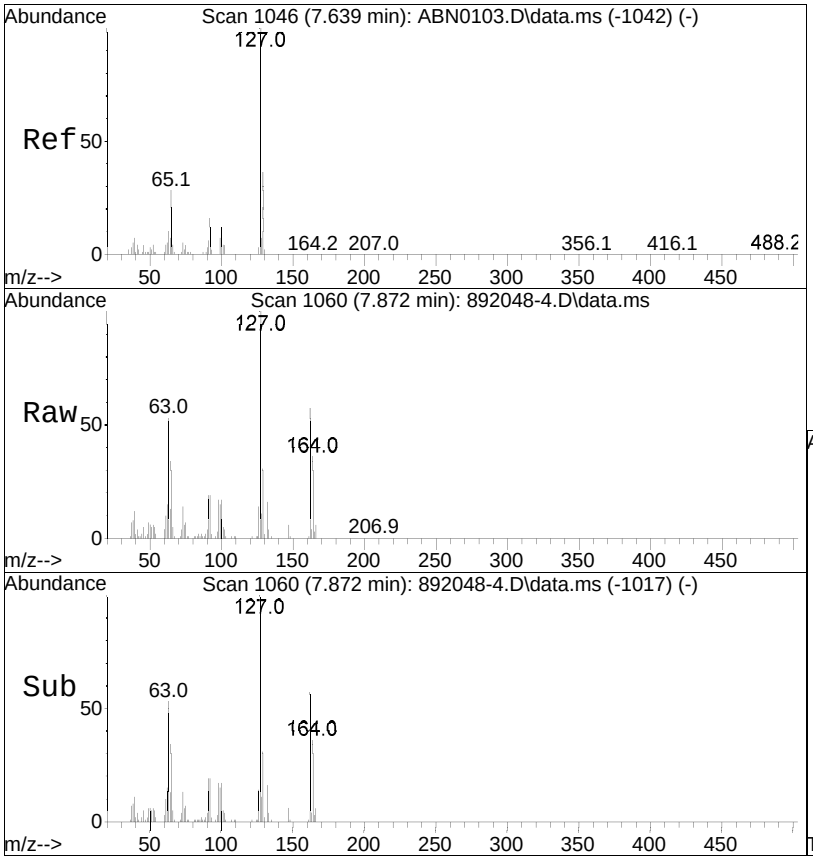


#29
Acetophenone
Concen: 3.22 ug/ml
RT: 6.831 min Scan# 883
Delta R.T. -0.006 min
Lab File: 892048-4.D
Acq: 5 Mar 2024 7:42 am

Tgt Ion:105 Resp: 89563

Ion	Ratio	Lower	Upper
105	100		
120	18.9	20.5	30.7#
51	30.6	34.9	52.3#

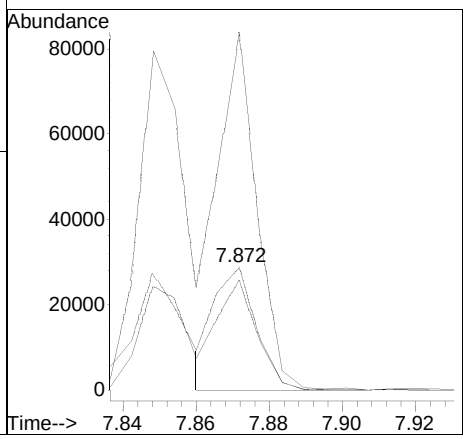


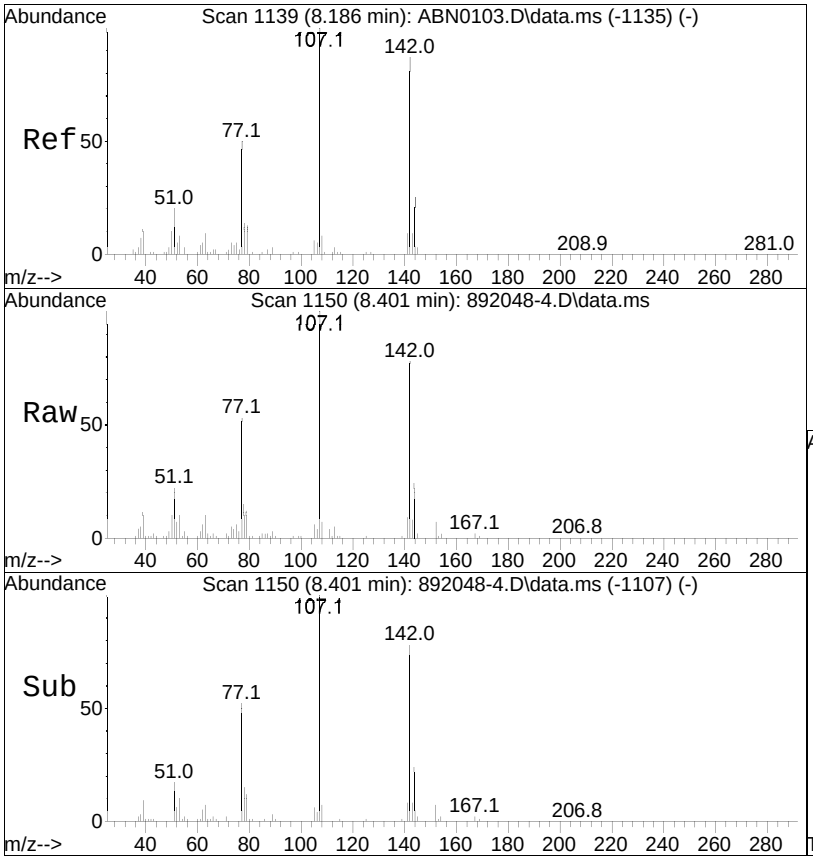


#37
4-Chloroaniline
Concen: 3.40 ug/ml
RT: 7.872 min Scan# 1060
Delta R.T. 0.000 min
Lab File: 892048-4.D
Acq: 5 Mar 2024 7:42 am

Tgt Ion: 65 Resp: 23102

Ion	Ratio	Lower	Upper
65	100		
127	268.0	237.6	356.4
129	84.7	76.3	114.5

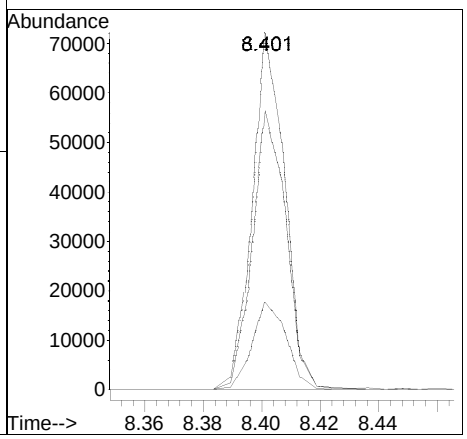


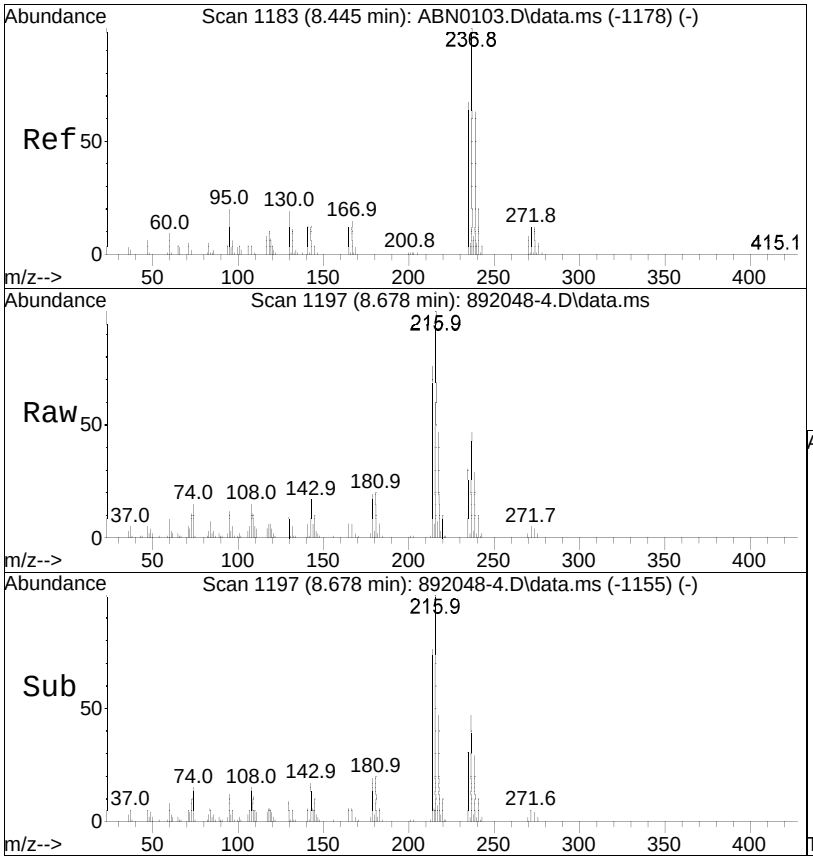


#39
p-Chloro-m-cresol
Concen: 3.66 ug/ml
RT: 8.401 min Scan# 1150
Delta R.T. 0.000 min
Lab File: 892048-4.D
Acq: 5 Mar 2024 7:42 am

Tgt Ion:107 Resp: 54994

Ion	Ratio	Lower	Upper
107	100		
144	26.0	20.9	31.3
142	81.2	66.1	99.1

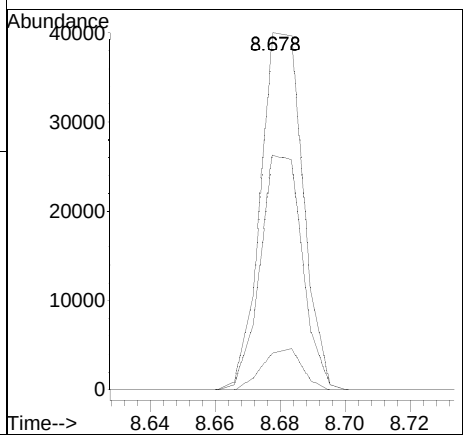


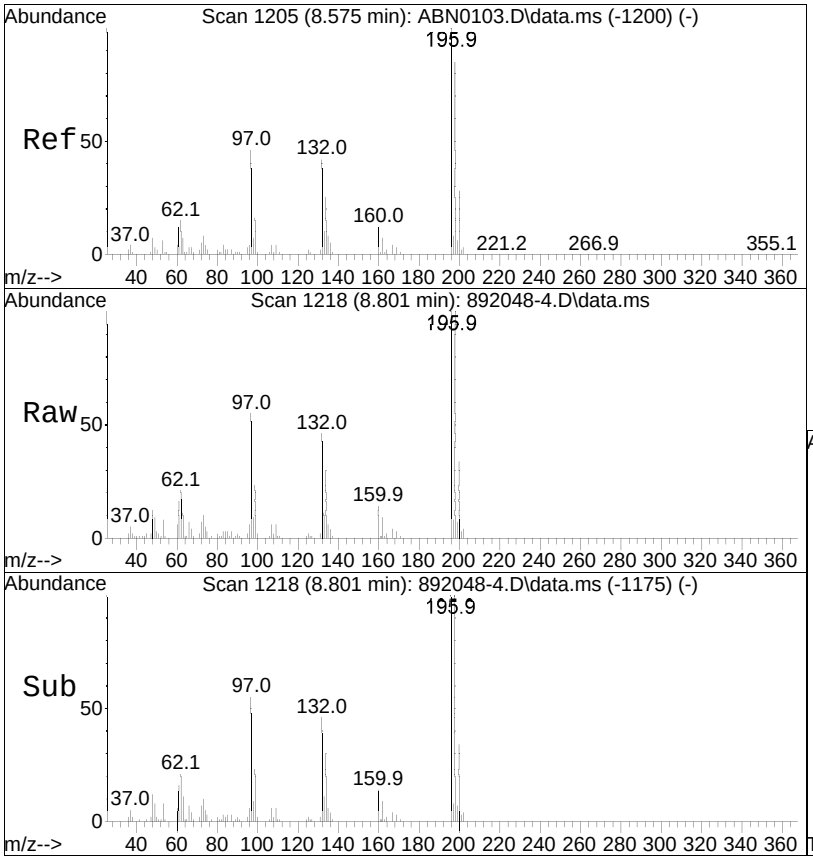


#42
Hexachlorocyclopentadiene
Concen: 3.21 ug/ml
RT: 8.678 min Scan# 1197
Delta R.T. -0.006 min
Lab File: 892048-4.D
Acq: 5 Mar 2024 7:42 am

Tgt Ion:237 Resp: 36256

Ion	Ratio	Lower	Upper
237	100		
235	65.3	49.7	74.5
272	10.9	9.8	14.6

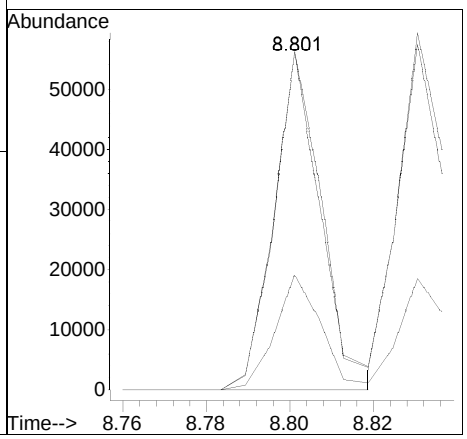


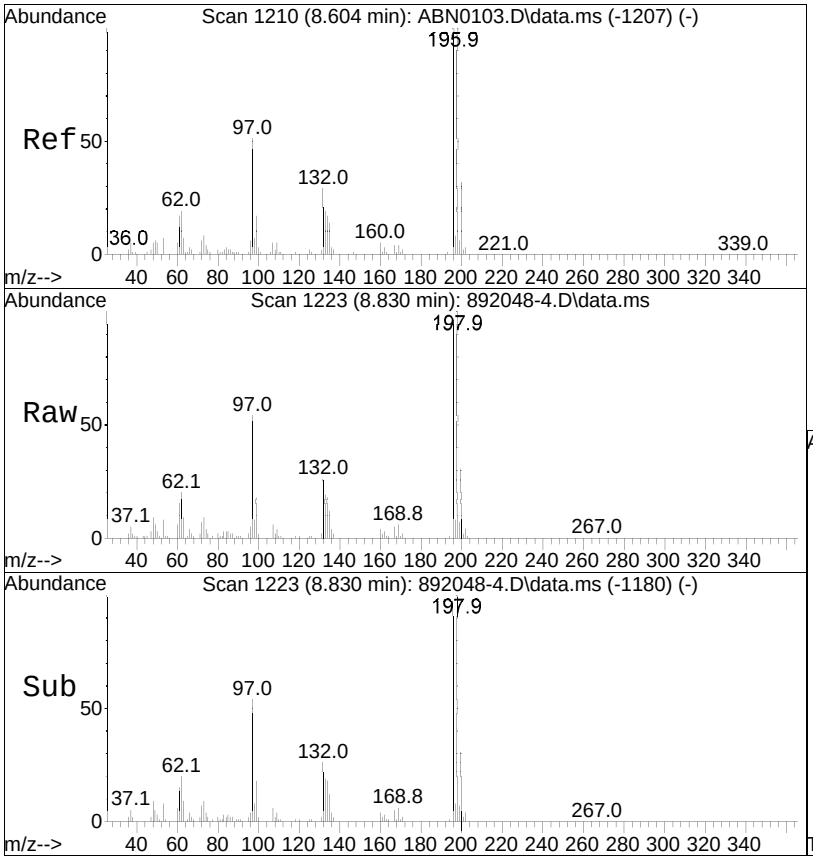


#43
2,4,6-Trichlorophenol
Concen: 4.04 ug/ml
RT: 8.801 min Scan# 1218
Delta R.T. 0.000 min
Lab File: 892048-4.D
Acq: 5 Mar 2024 7:42 am

Tgt Ion:196 Resp: 43433

Ion	Ratio	Lower	Upper
196	100		
198	102.0	77.5	116.3
200	33.9	23.8	35.6

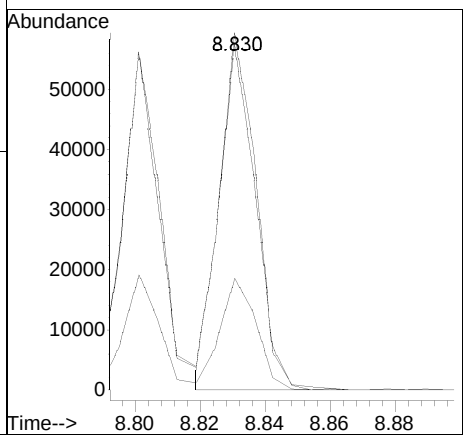


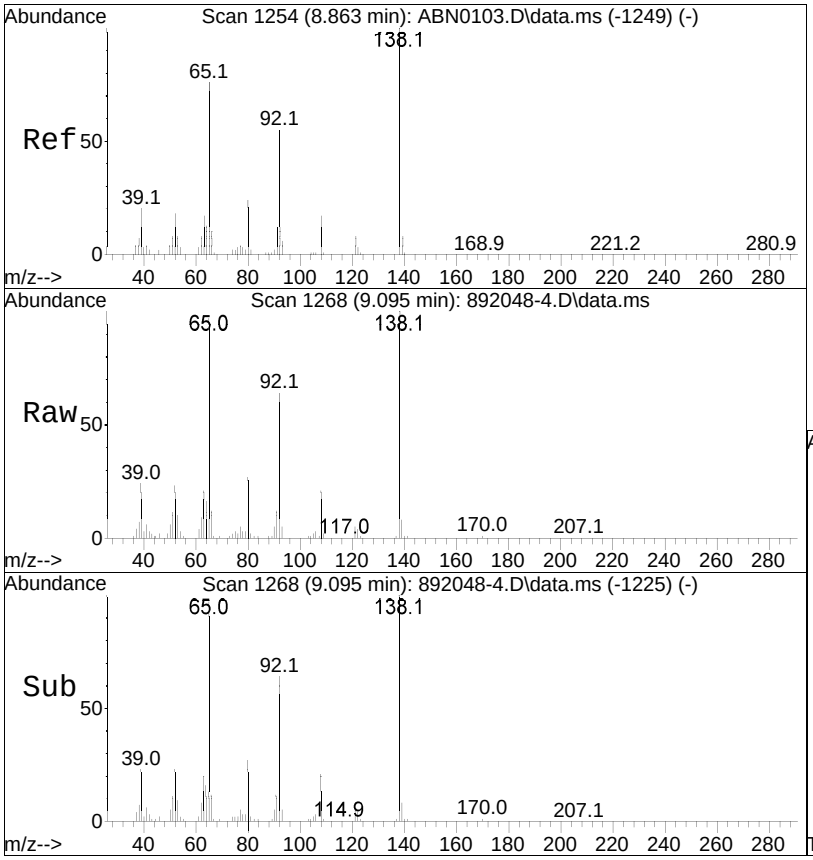


#44
2,4,5-Trichlorophenol
Concen: 3.86 ug/ml
RT: 8.830 min Scan# 1223
Delta R.T. 0.000 min
Lab File: 892048-4.D
Acq: 5 Mar 2024 7:42 am

Tgt Ion:196 Resp: 44637

Ion	Ratio	Lower	Upper
196	100		
200	32.1	25.4	38.0
198	104.3	78.0	117.0

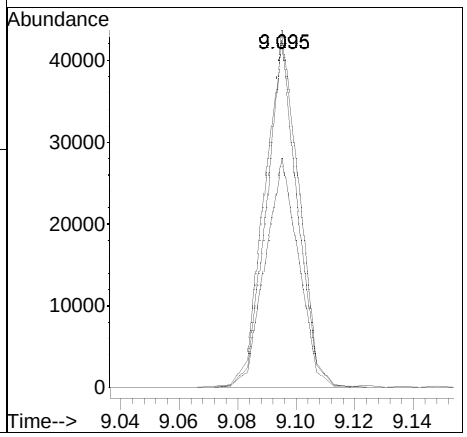


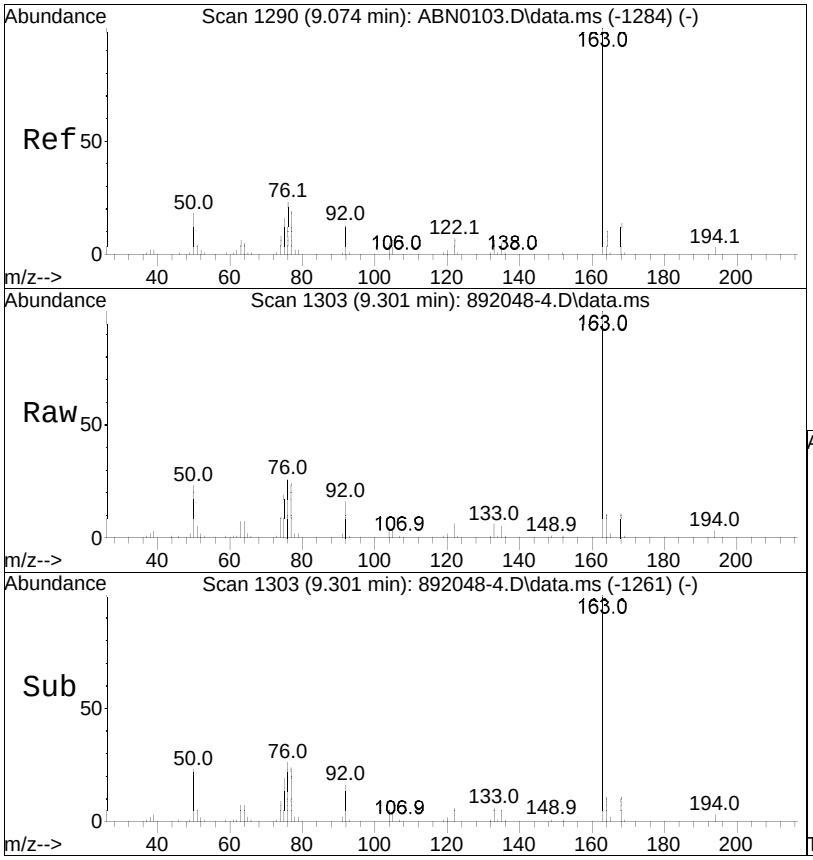


#47
2-Nitroaniline
Concen: 3.58 ug/ml
RT: 9.095 min Scan# 1268
Delta R.T. 0.000 min
Lab File: 892048-4.D
Acq: 5 Mar 2024 7:42 am

Tgt Ion:138 Resp: 32848

Ion	Ratio	Lower	Upper
138	100		
92	67.5	53.5	80.3
65	100.7	86.3	129.5

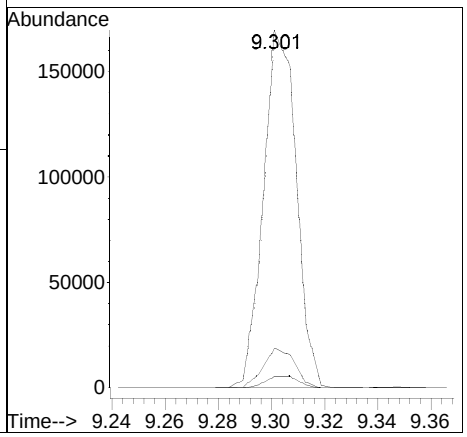


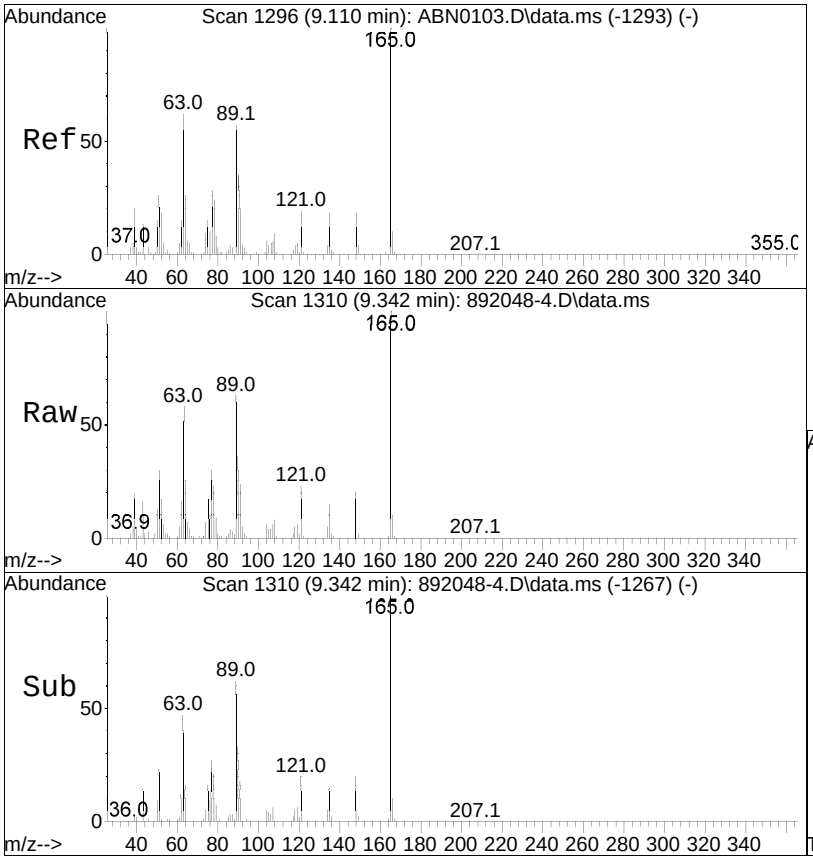


#50
Dimethyl phthalate
Concen: 3.56 ug/ml
RT: 9.301 min Scan# 1303
Delta R.T. -0.006 min
Lab File: 892048-4.D
Acq: 5 Mar 2024 7:42 am

Tgt Ion:163 Resp: 144450

Ion	Ratio	Lower	Upper
163	100		
194	3.4	3.5	5.3#
164	10.7	7.9	11.9

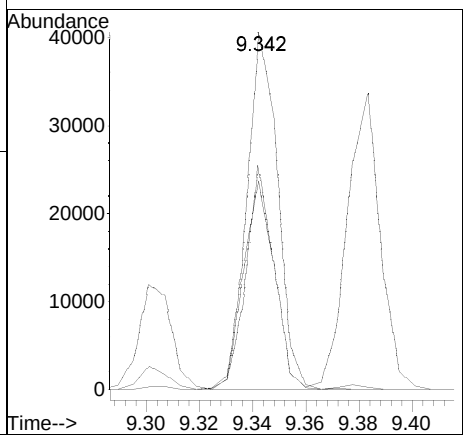


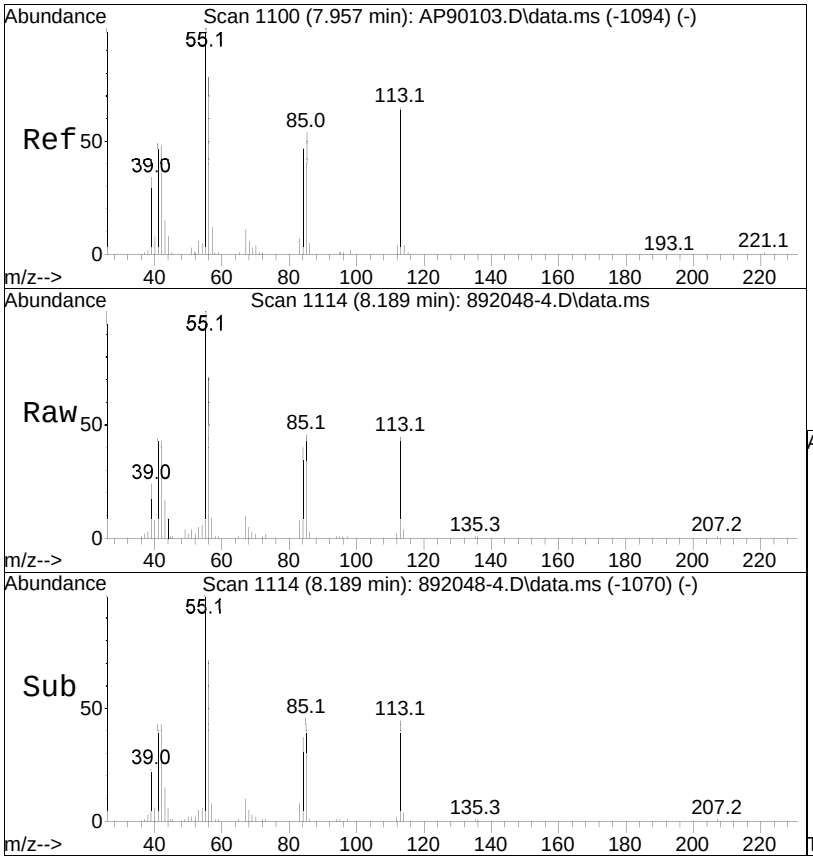


#52
2,6-Dinitrotoluene
Concen: 4.28 ug/ml
RT: 9.342 min Scan# 1310
Delta R.T. 0.000 min
Lab File: 892048-4.D
Acq: 5 Mar 2024 7:42 am

Tgt Ion:165 Resp: 32867

Ion	Ratio	Lower	Upper
165	100		
89	56.8	54.2	81.2
63	58.3	64.2	96.2#

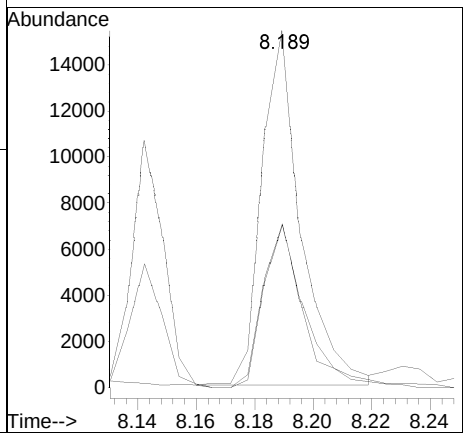


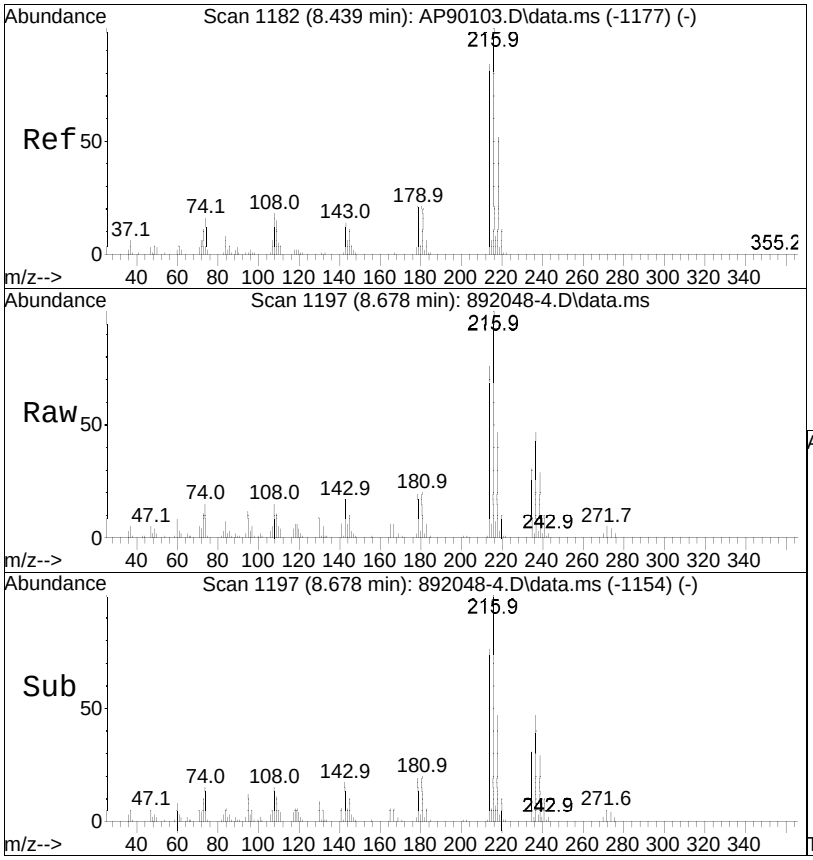


#59
Caprolactam
Concen: 1.89 ug/ml
RT: 8.189 min Scan# 1114
Delta R.T. 0.006 min
Lab File: 892048-4.D
Acq: 5 Mar 2024 7:42 am

Tgt Ion: 55 Resp: 14250

Ion	Ratio	Lower	Upper
55	100		
85	49.1	19.8	29.6#
113	48.7	29.6	44.4#

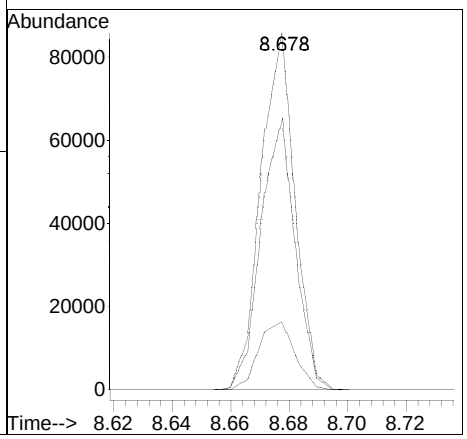


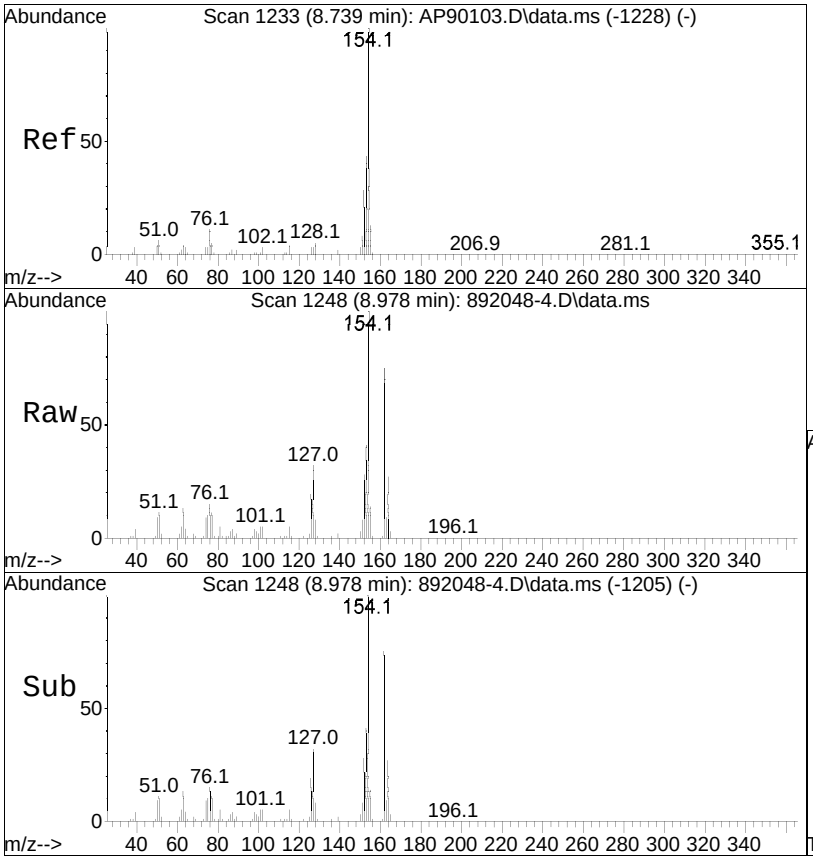


#60
1,2,4,5-Tetrachlorobenzene
Concen: 3.87 ug/ml
RT: 8.678 min Scan# 1197
Delta R.T. 0.000 min
Lab File: 892048-4.D
Acq: 5 Mar 2024 7:42 am

Tgt Ion:216 Resp: 69444

Ion	Ratio	Lower	Upper
216	100		
214	76.6	63.7	95.5
179	20.4	19.0	28.6

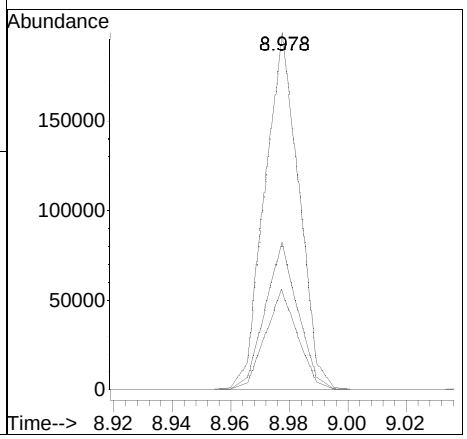


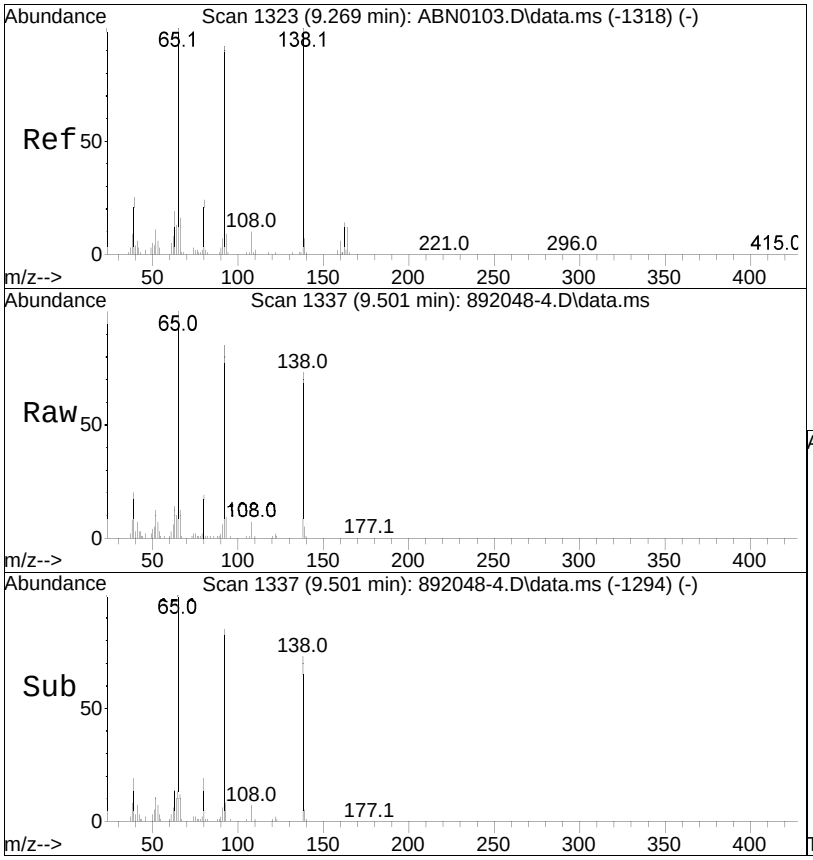


#61
Biphenyl
Concen: 3.63 ug/ml
RT: 8.978 min Scan# 1248
Delta R.T. 0.000 min
Lab File: 892048-4.D
Acq: 5 Mar 2024 7:42 am

Tgt Ion:154 Resp: 160136

Ion	Ratio	Lower	Upper
154	100		
153	40.0	32.3	48.5
152	26.9	22.5	33.7

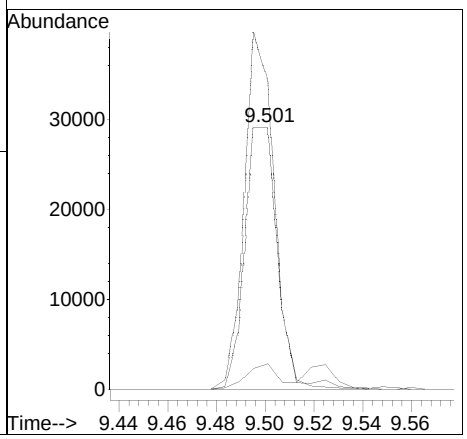


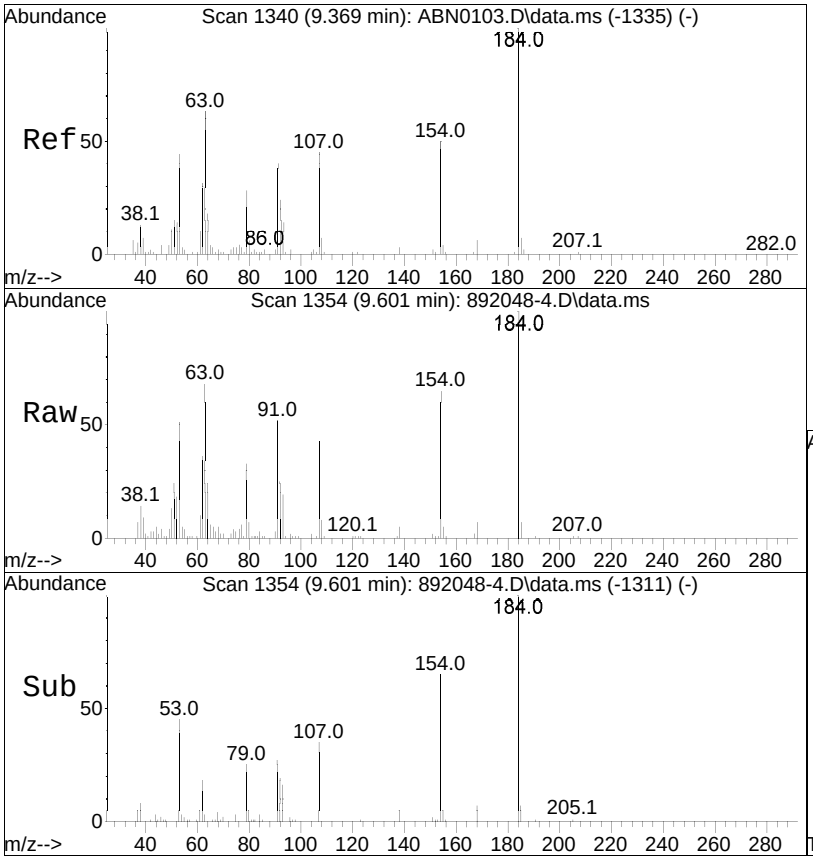


#63
3-Nitroaniline
Concen: 3.16 ug/ml
RT: 9.501 min Scan# 1337
Delta R.T. 0.000 min
Lab File: 892048-4.D
Acq: 5 Mar 2024 7:42 am

Tgt Ion:138 Resp: 26733

Ion	Ratio	Lower	Upper
138	100		
92	126.8	93.4	140.2
108	10.2	9.5	14.3

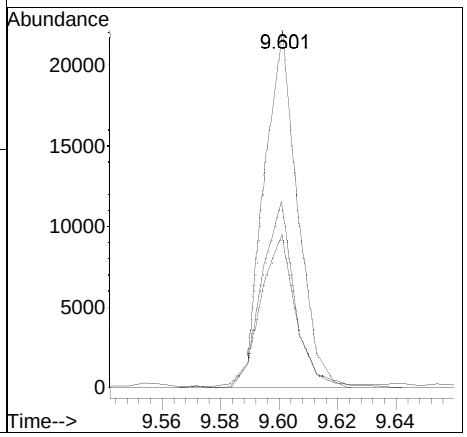


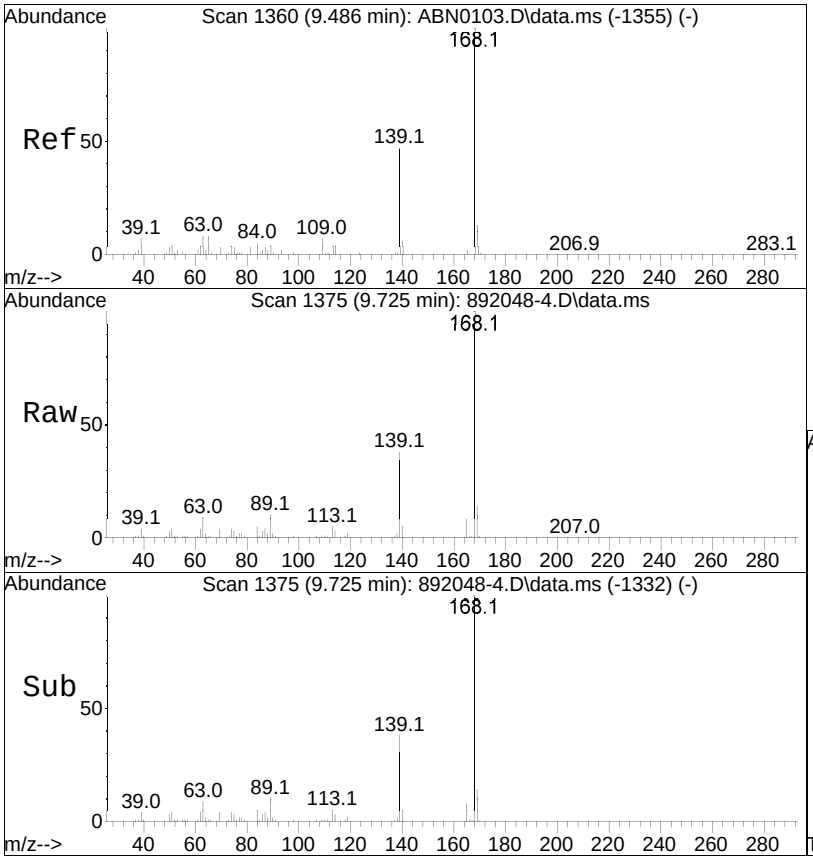


#65
2,4-Dinitrophenol
Concen: 4.78 ug/ml
RT: 9.601 min Scan# 1354
Delta R.T. 0.000 min
Lab File: 892048-4.D
Acq: 5 Mar 2024 7:42 am

Tgt Ion:184 Resp: 17551

Ion	Ratio	Lower	Upper
184	100		
107	46.0	37.7	56.5
91	50.2	46.3	69.5

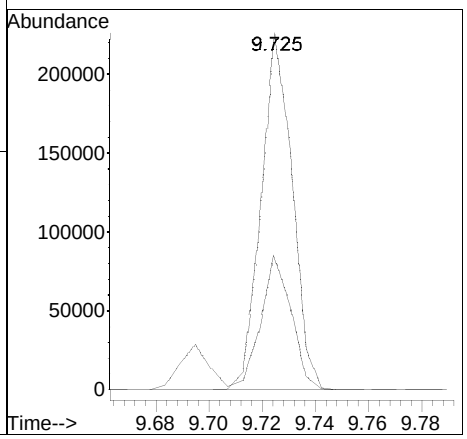


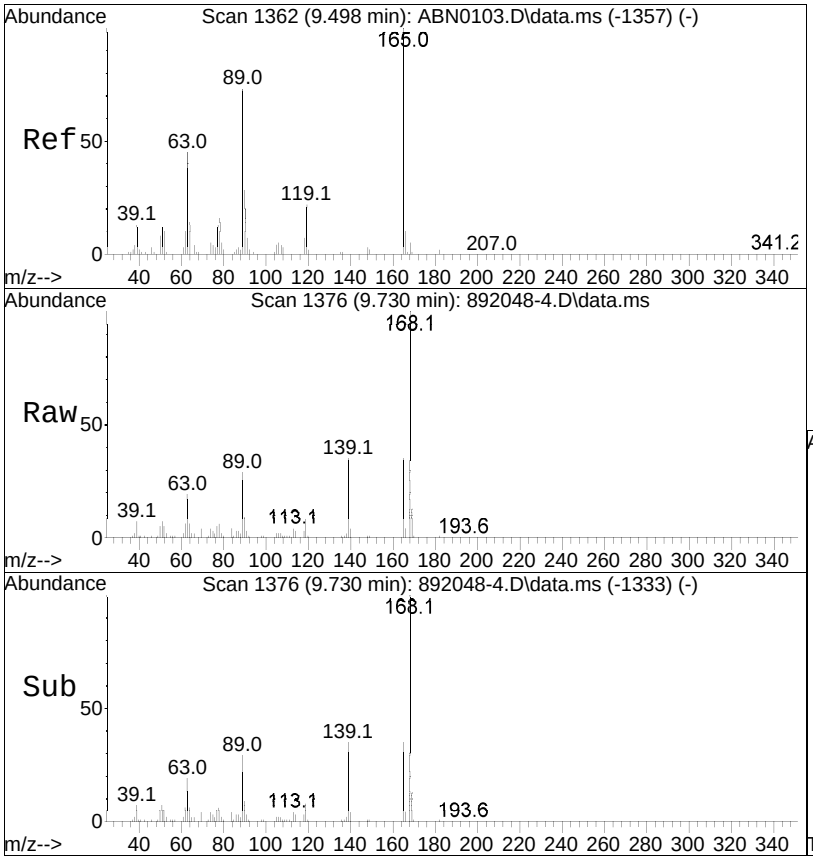


#66
Dibenzofuran
Concen: 3.62 ug/ml
RT: 9.725 min Scan# 1375
Delta R.T. 0.000 min
Lab File: 892048-4.D
Acq: 5 Mar 2024 7:42 am

Tgt Ion:168 Resp: 181168

Ion	Ratio	Lower	Upper
168	100		
139	37.2	31.4	47.2

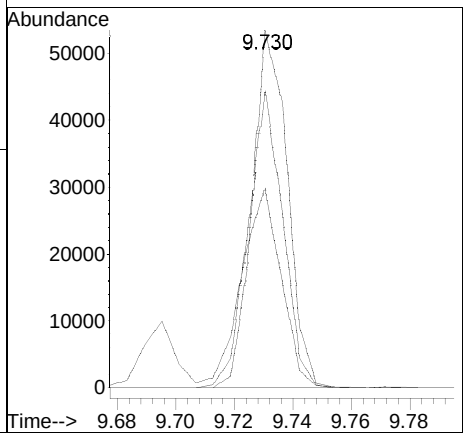


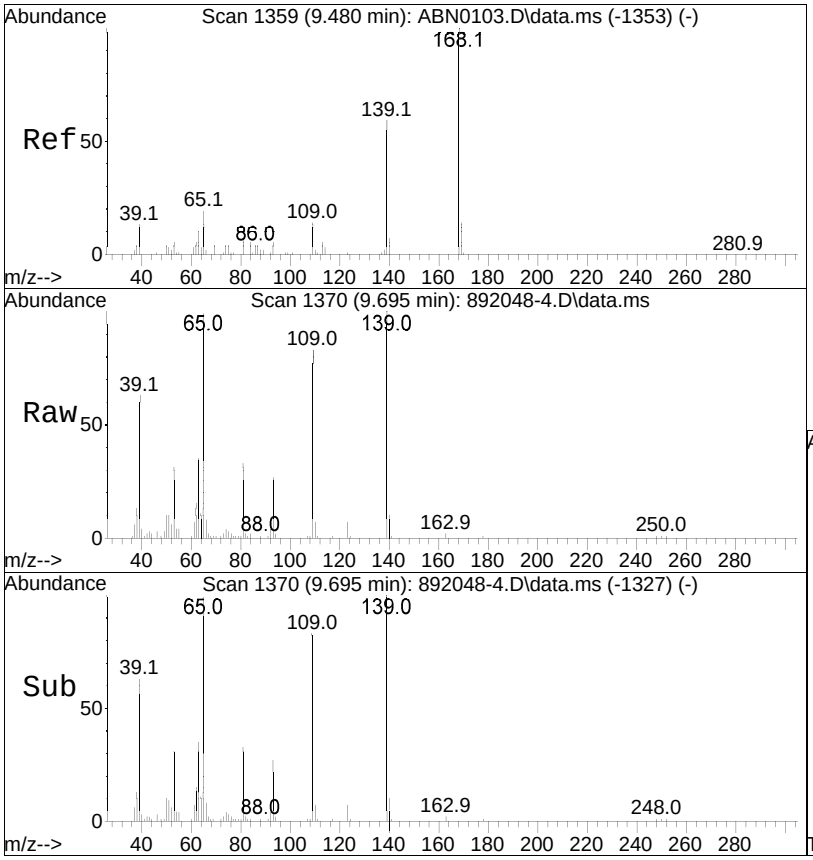


#67
2,4-Dinitrotoluene
Concen: 4.20 ug/ml
RT: 9.730 min Scan# 1376
Delta R.T. 0.000 min
Lab File: 892048-4.D
Acq: 5 Mar 2024 7:42 am

Tgt Ion:165 Resp: 44129

Ion	Ratio	Lower	Upper
165	100		
89	82.5	72.0	108.0
63	63.4	52.7	79.1

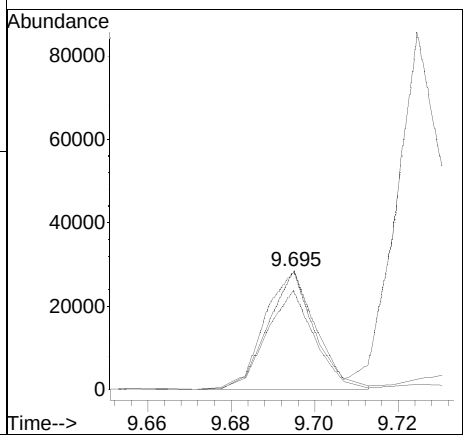


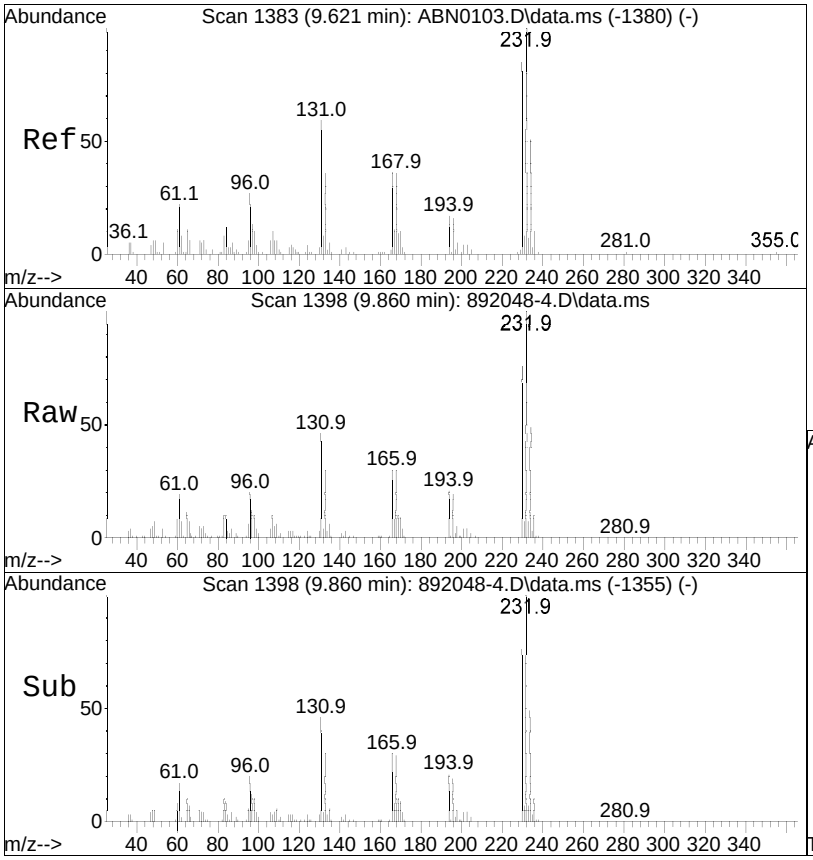


#68
4-Nitrophenol
Concen: 3.12 ug/ml
RT: 9.695 min Scan# 1370
Delta R.T. 0.000 min
Lab File: 892048-4.D
Acq: 5 Mar 2024 7:42 am

Tgt Ion: 65 Resp: 23640

Ion	Ratio	Lower	Upper
65	100		
109	81.7	47.4	71.2#
139	94.8	76.6	115.0

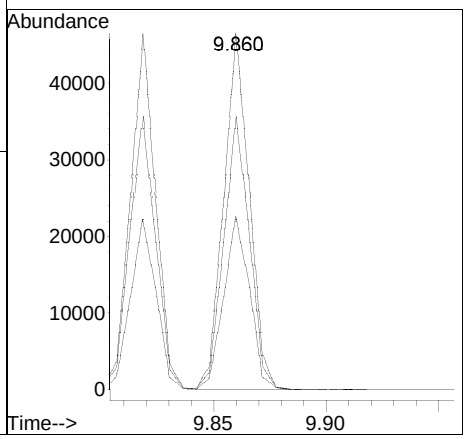


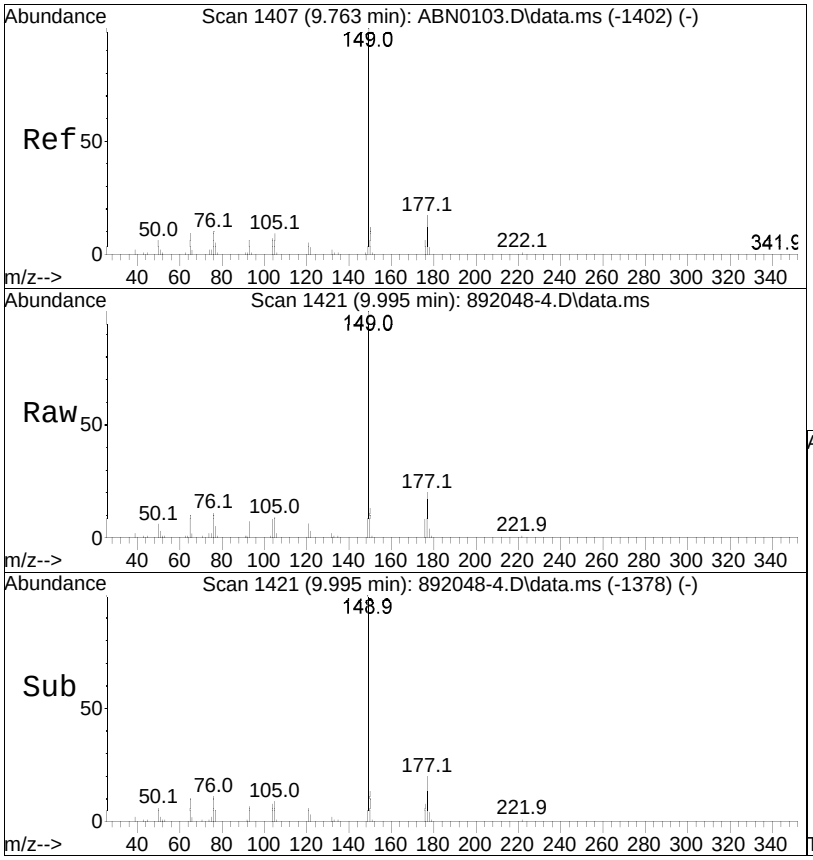


#70
2,3,4,6-Tetrachlorophenol
Concen: 3.70 ug/ml
RT: 9.860 min Scan# 1398
Delta R.T. 0.000 min
Lab File: 892048-4.D
Acq: 5 Mar 2024 7:42 am

Tgt Ion:232 Resp: 36902

Ion	Ratio	Lower	Upper
232	100		
230	76.8	61.8	92.8
234	49.2	36.2	54.2

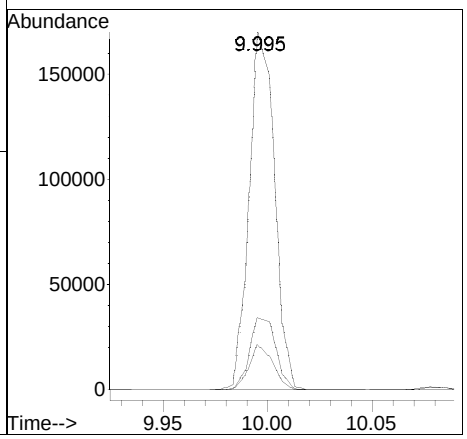


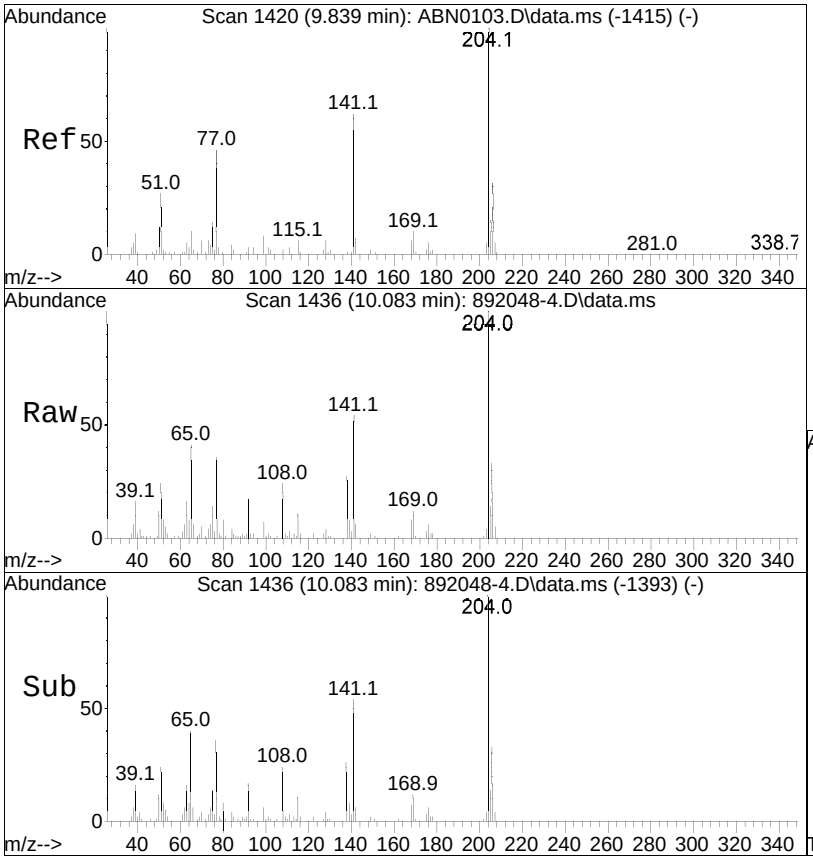


#71
Diethyl phthalate
Concen: 3.40 ug/ml
RT: 9.995 min Scan# 1421
Delta R.T. 0.000 min
Lab File: 892048-4.D
Acq: 5 Mar 2024 7:42 am

Tgt Ion:149 Resp: 142604

Ion	Ratio	Lower	Upper
149	100		
177	21.0	16.1	24.1
150	12.2	9.4	14.2

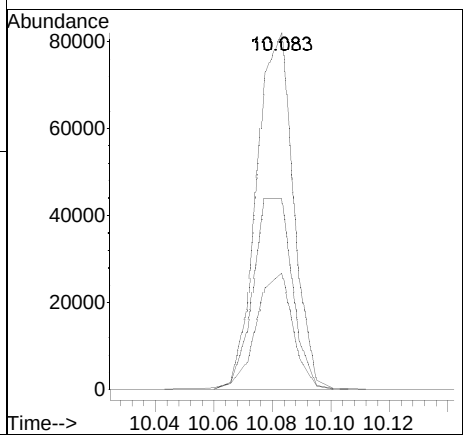


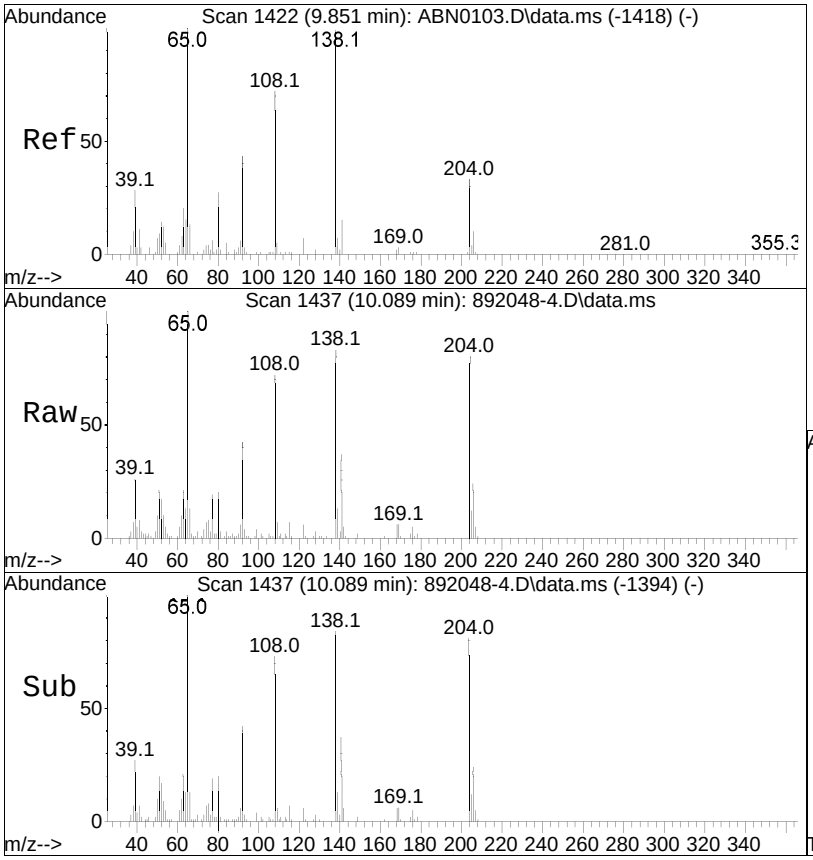


#73
4-Chlorophenyl phenyl ether
Concen: 3.78 ug/ml
RT: 10.083 min Scan# 1436
Delta R.T. 0.000 min
Lab File: 892048-4.D
Acq: 5 Mar 2024 7:42 am

Tgt Ion:204 Resp: 71310

Ion	Ratio	Lower	Upper
204	100		
206	32.8	25.8	38.6
141	57.4	53.6	80.4

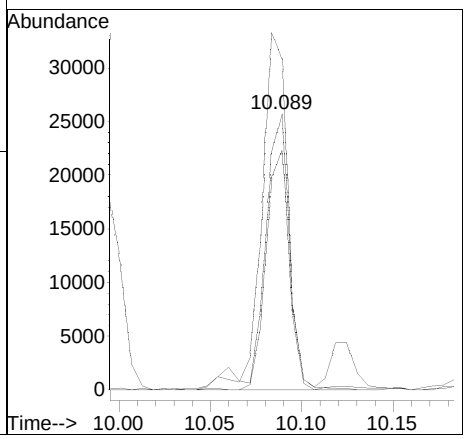


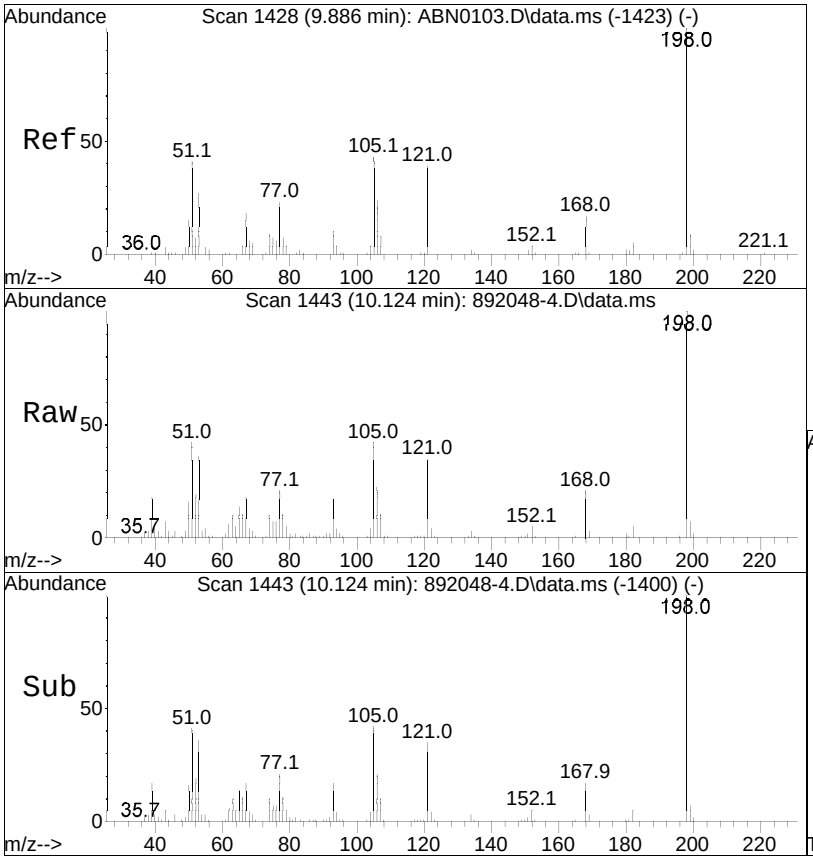


#74
4-Nitroaniline
Concen: 2.86 ug/ml
RT: 10.089 min Scan# 1437
Delta R.T. 0.000 min
Lab File: 892048-4.D
Acq: 5 Mar 2024 7:42 am

Tgt Ion:138 Resp: 24465

Ion	Ratio	Lower	Upper
138	100		
108	80.2	52.1	78.1#
65	134.7	115.0	172.6

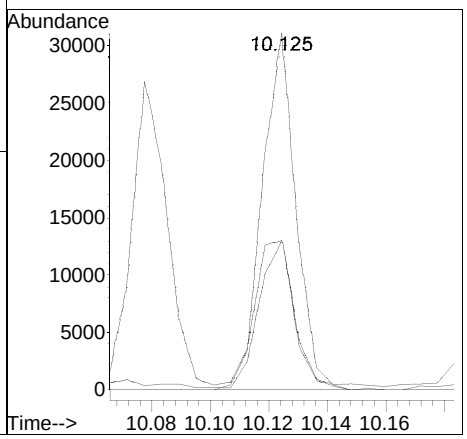


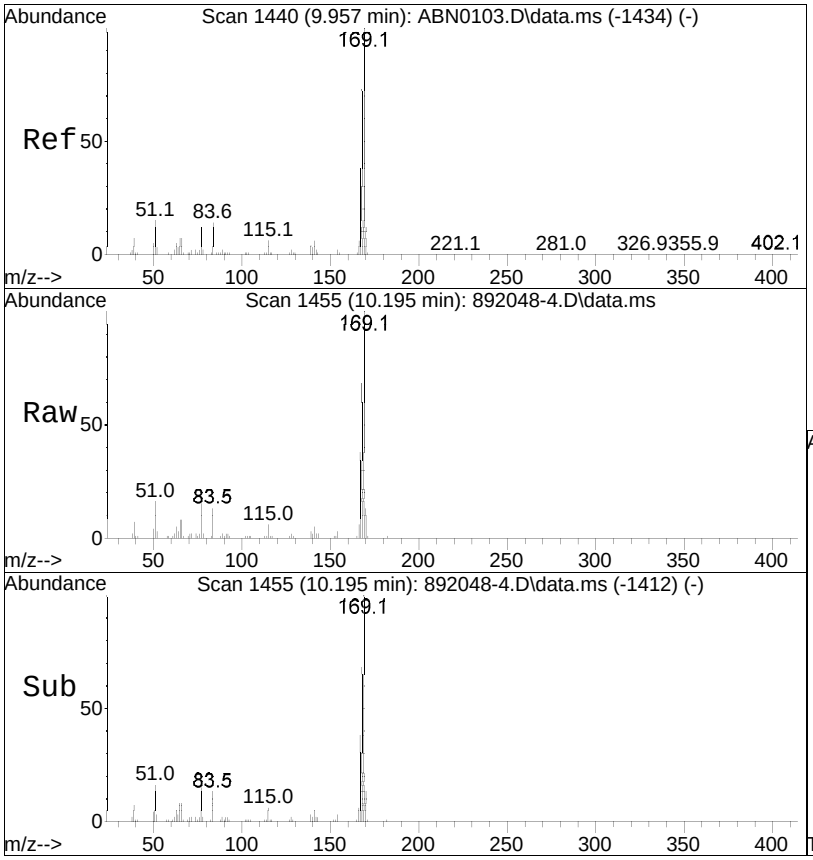


#75
4,6-Dinitro-o-cresol
Concen: 5.05 ug/ml
RT: 10.124 min Scan# 1443
Delta R.T. 0.000 min
Lab File: 892048-4.D
Acq: 5 Mar 2024 7:42 am

Tgt Ion:198 Resp: 24726

Ion	Ratio	Lower	Upper
198	100		
51	49.0	76.0	114.0#
105	44.5	45.6	68.4#

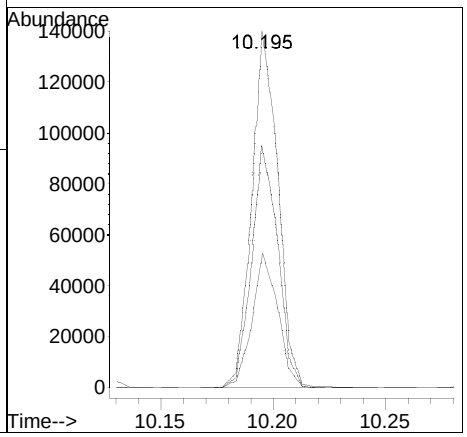


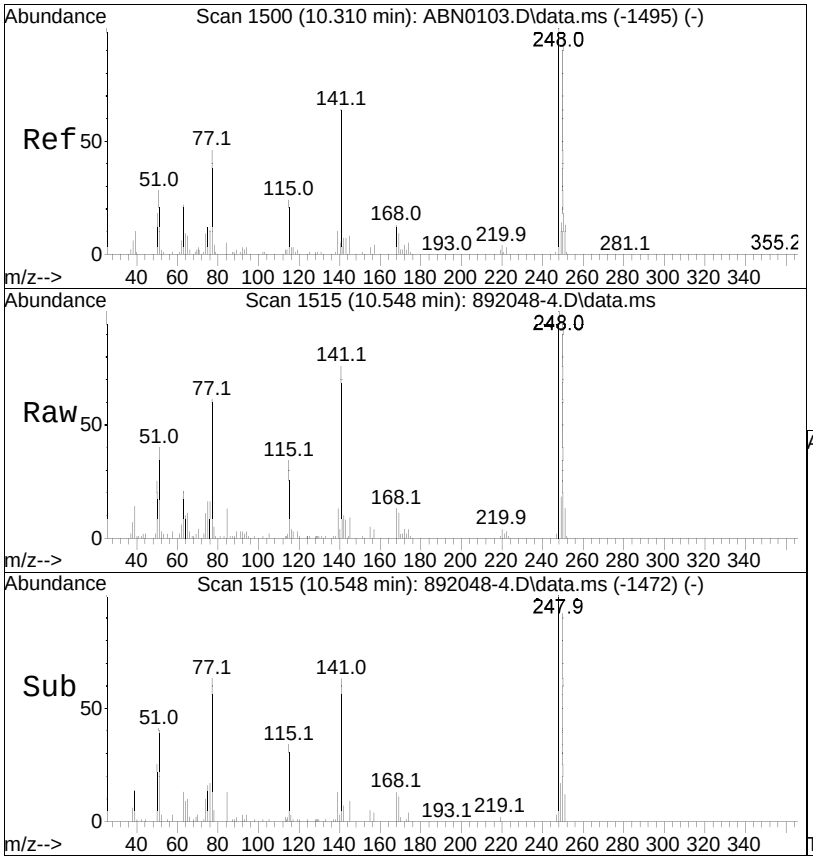


#76
NDPA/DPA
Concen: 3.39 ug/ml
RT: 10.195 min Scan# 1455
Delta R.T. 0.000 min
Lab File: 892048-4.D
Acq: 5 Mar 2024 7:42 am

Tgt Ion:169 Resp: 112742

Ion	Ratio	Lower	Upper
169	100		
168	67.8	54.0	81.0
167	37.3	28.6	42.8

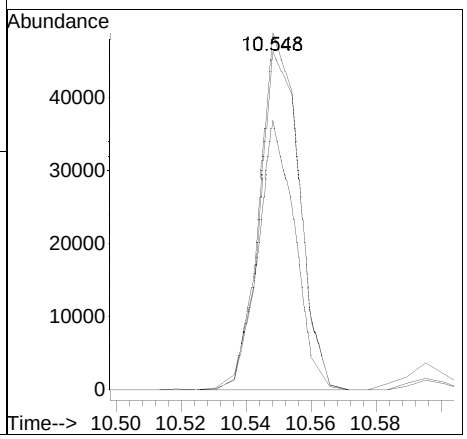


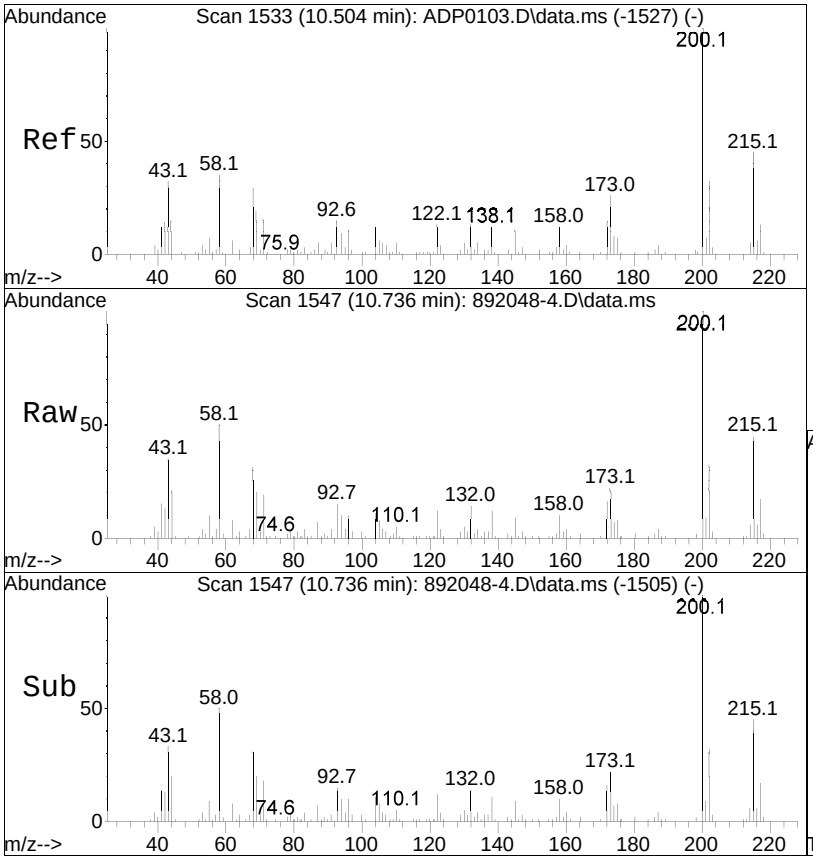


#79
4-Bromophenyl phenyl ether
Concen: 3.75 ug/ml
RT: 10.548 min Scan# 1515
Delta R.T. 0.000 min
Lab File: 892048-4.D
Acq: 5 Mar 2024 7:42 am

Tgt Ion:248 Resp: 41151

Ion	Ratio	Lower	Upper
248	100		
141	71.6	76.6	114.8#
250	96.1	77.3	115.9

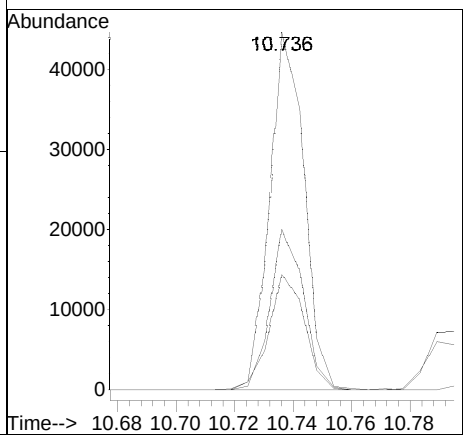


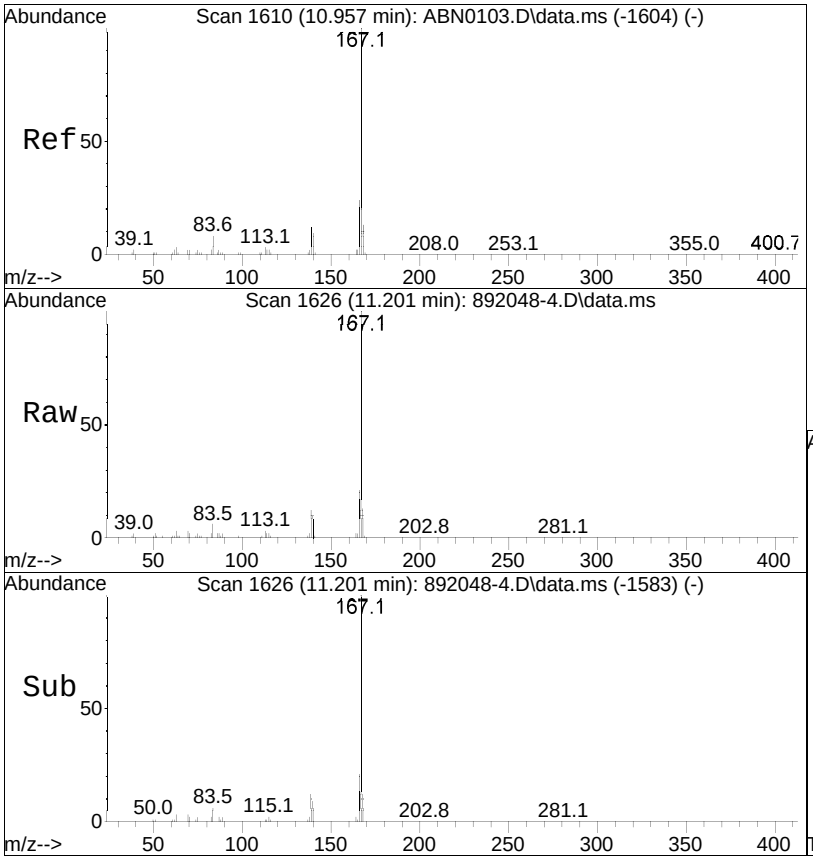


#86
Atrazine
Concen: 3.55 ug/ml
RT: 10.736 min Scan# 1547
Delta R.T. -0.000 min
Lab File: 892048-4.D
Acq: 5 Mar 2024 7:42 am

Tgt Ion:200 Resp: 36227

Ion	Ratio	Lower	Upper
200	100		
202	33.4	25.8	38.6
215	43.8	40.2	60.4

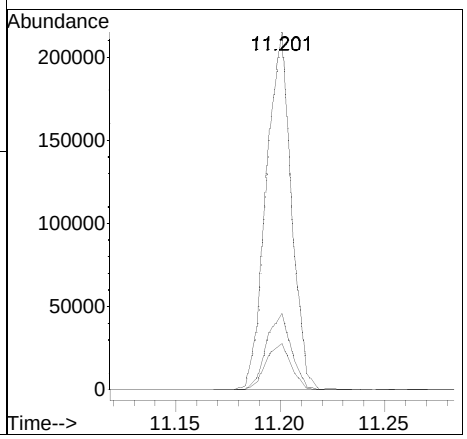


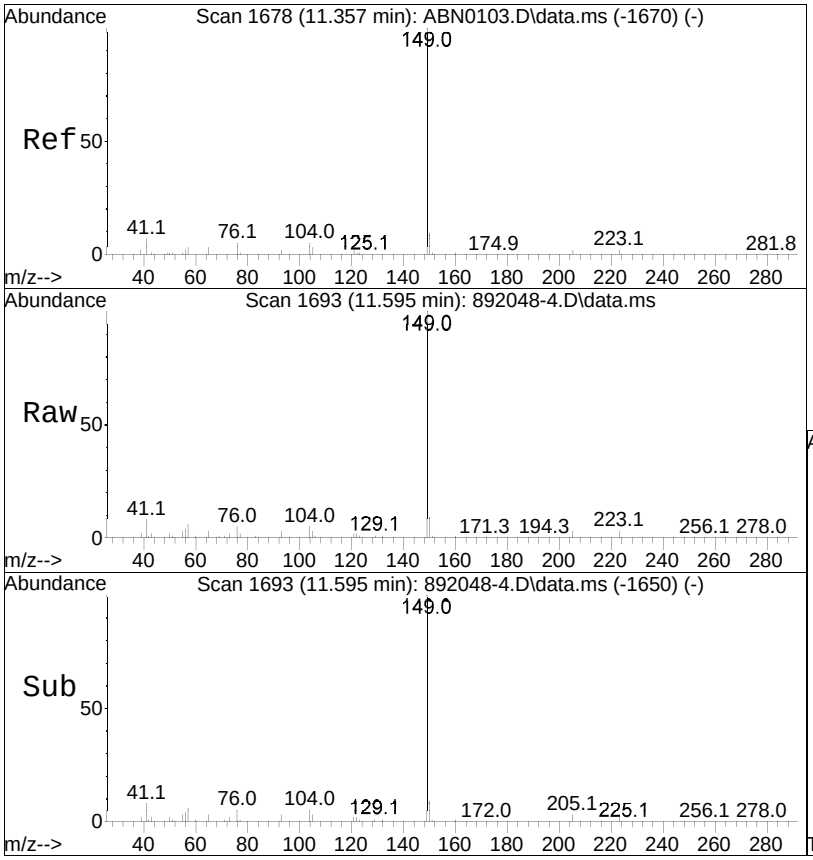


#90
Carbazole
Concen: 3.37 ug/ml
RT: 11.201 min Scan# 1626
Delta R.T. 0.000 min
Lab File: 892048-4.D
Acq: 5 Mar 2024 7:42 am

Tgt Ion:167 Resp: 177644

Ion	Ratio	Lower	Upper
167	100		
168	13.3	10.6	15.8
166	21.6	17.4	26.0

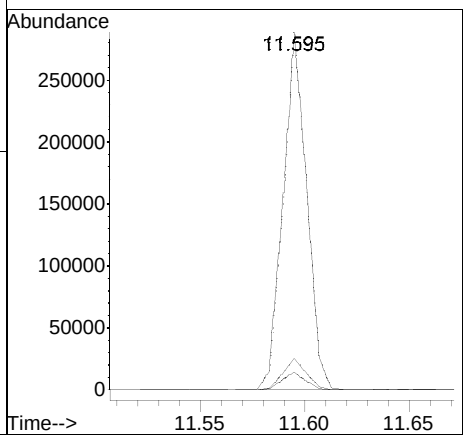


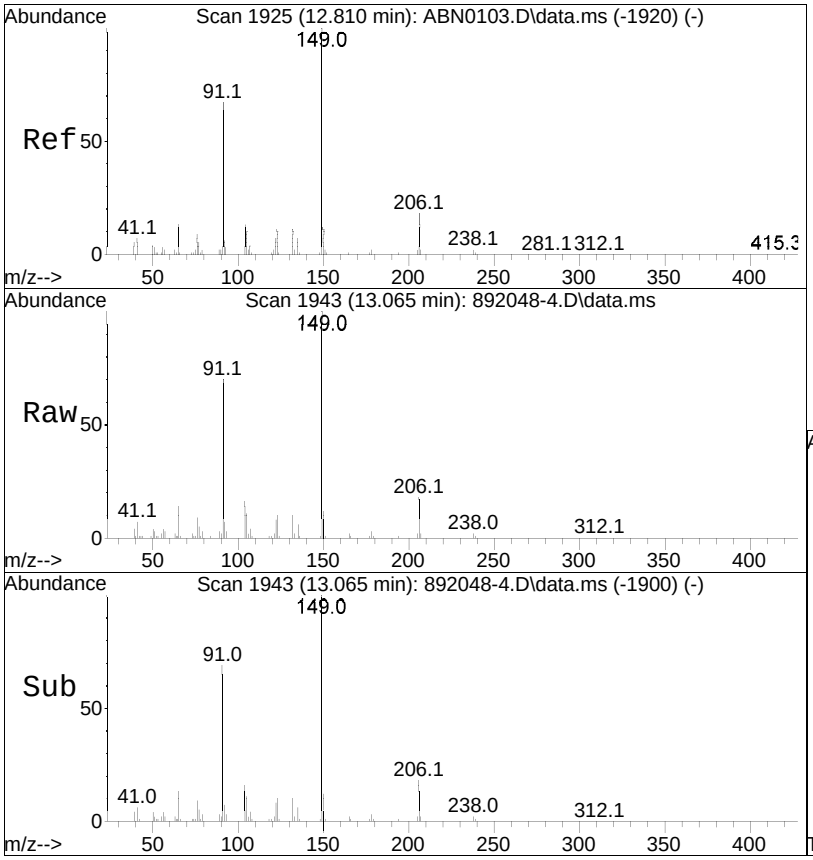


#91
Di-n-butylphthalate
Concen: 3.29 ug/ml
RT: 11.595 min Scan# 1693
Delta R.T. 0.000 min
Lab File: 892048-4.D
Acq: 5 Mar 2024 7:42 am

Tgt Ion:149 Resp: 222355

Ion	Ratio	Lower	Upper
149	100		
150	8.8	7.0	10.6
104	5.0	4.5	6.7

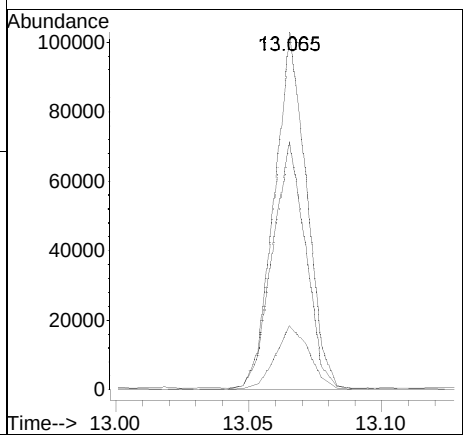


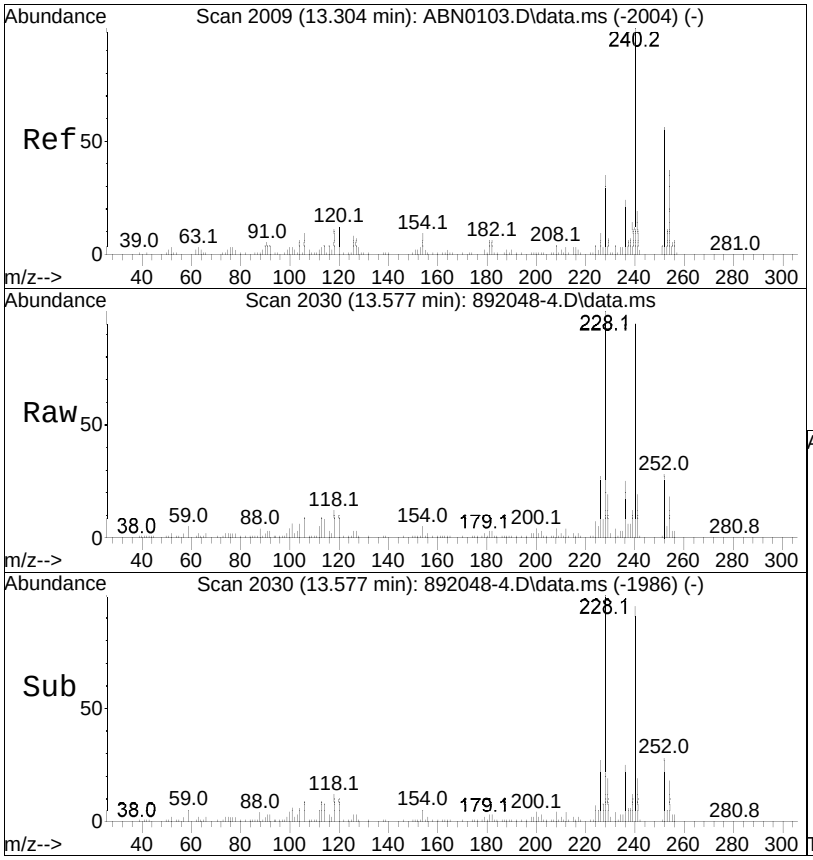


#96
Butyl benzyl phthalate
Concen: 2.99 ug/ml
RT: 13.065 min Scan# 1943
Delta R.T. 0.000 min
Lab File: 892048-4.D
Acq: 5 Mar 2024 7:42 am

Tgt Ion:149 Resp: 86075

Ion	Ratio	Lower	Upper
149	100		
91	71.3	63.3	94.9
206	18.8	13.9	20.9

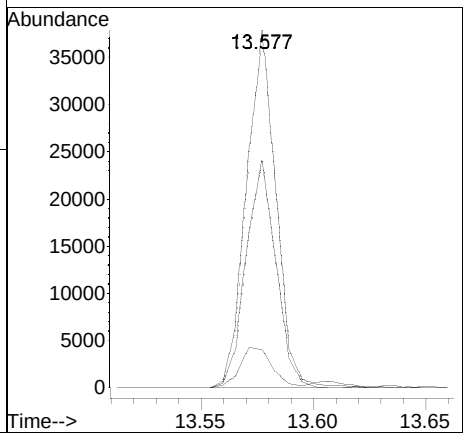


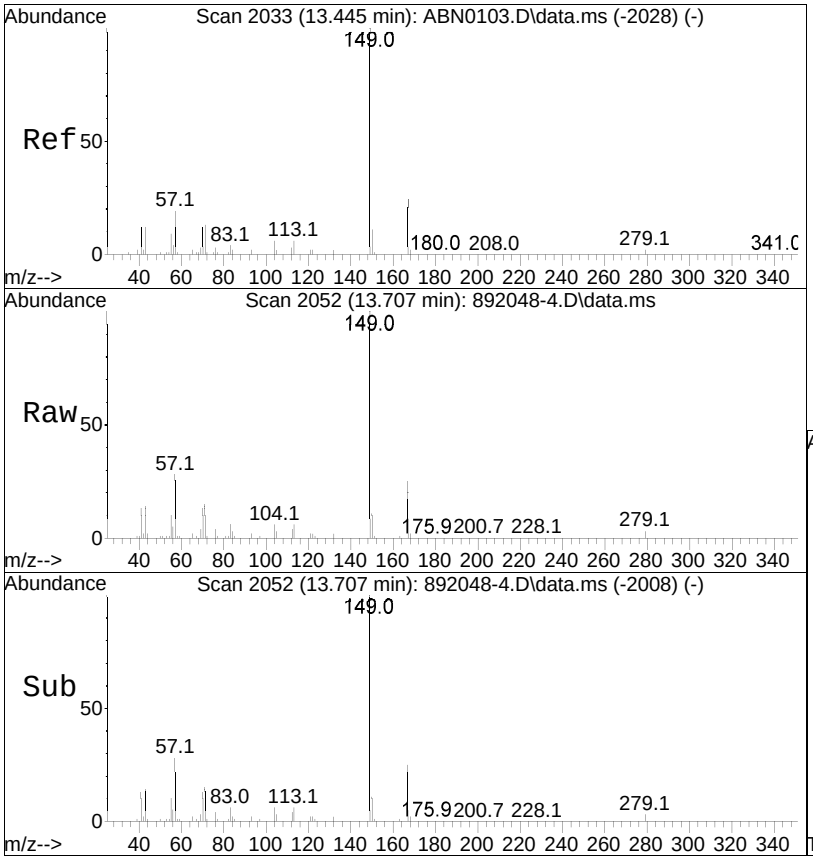


#105
3,3'-Dichlorobenzidine
Concen: 1.93 ug/ml
RT: 13.577 min Scan# 2030
Delta R.T. 0.006 min
Lab File: 892048-4.D
Acq: 5 Mar 2024 7:42 am

Tgt Ion:252 Resp: 34305

Ion	Ratio	Lower	Upper
252	100		
126	12.7	14.5	21.7#
254	64.3	51.2	76.8

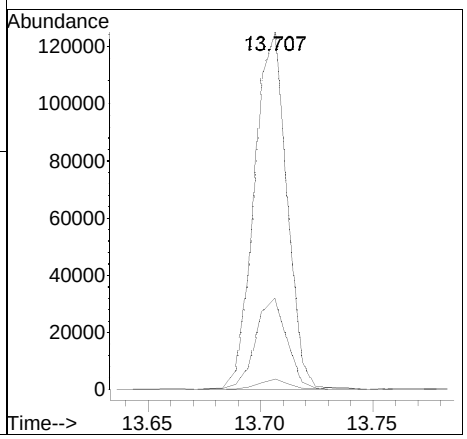


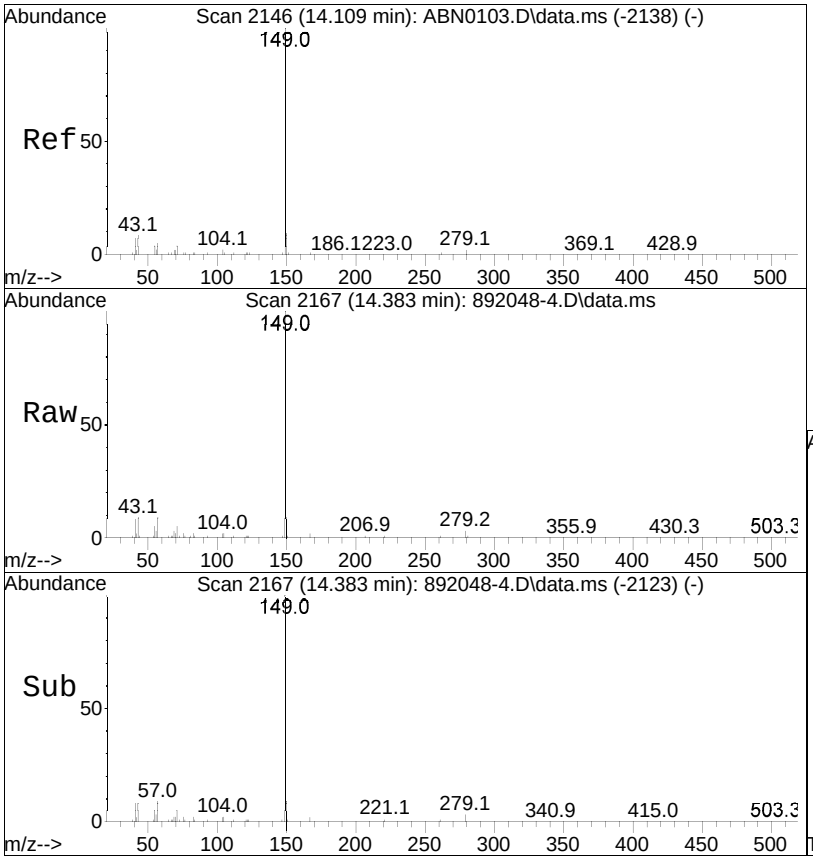


#107
Bis(2-ethylhexyl)phthalate
Concen: 3.72 ug/ml
RT: 13.707 min Scan# 2052
Delta R.T. 0.006 min
Lab File: 892048-4.D
Acq: 5 Mar 2024 7:42 am

Tgt Ion:149 Resp: 124832

Ion	Ratio	Lower	Upper
149	100		
167	24.8	22.1	33.1
279	2.5	3.0	4.4#

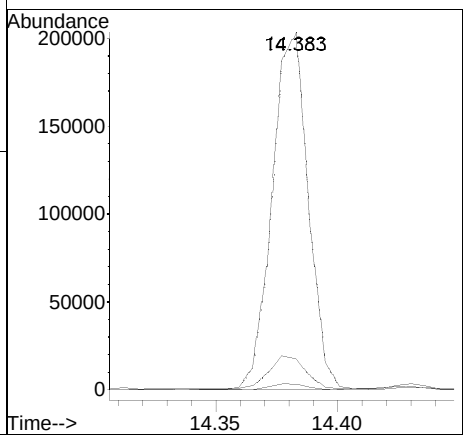




#108
Di-n-octylphthalate
Concen: 3.64 ug/ml
RT: 14.383 min Scan# 2167
Delta R.T. 0.006 min
Lab File: 892048-4.D
Acq: 5 Mar 2024 7:42 am

Tgt Ion:149 Resp: 205760

Ion	Ratio	Lower	Upper
149	100		
43	9.7	18.8	28.2#
167	1.7	1.3	1.9



Manual Integration Report

Data Path	: I:\8270\SV106\240304nlvi\	QMethod	: FS230902SV106.m
Data File	: 892048-4.D	Operator	: SV106:ljg
Date Inj'd	: 3/5/2024 7:42 am	Instrument	: SV 106
Sample	: WG1892048-4,32,,gmr	Quant Date	: 3/5/2024 11:23 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240305lvi\
Data File : 892048-6.D
Acq On : 5 Mar 2024 7:23 pm
Operator : SV106:ek
Sample : WG1892048-6,32,,HNY
Misc : WG1892411,WG1892048,ical20337
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Mar 05 19:47:35 2024
Quant Method : I:\8270\sv106\240305lvi\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Mar 05 19:43:12 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv106\240305lvi\ABN0305.D
: 2 - I:\8270\sv106\240305lvi\ADP0305.D
: 3 - I:\8270\sv106\240305lvi\AP90305.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) IS1_1,4-Dichlorobenzen...	6.307	152	42199	4.000	ug/ml		0.00
Standard Area 1 = 43778			Recovery = 96.39%				
27) IS2_1,4-Dichlorobenzen...	6.307	152	42199	4.000	ug/ml		0.00
Standard Area 3 = 42624			Recovery = 99.00%				
34) IS1_Naphthalene-d8	7.742	136	159422	4.000	ug/ml	#	0.00
Standard Area 1 = 156136			Recovery = 102.10%				
54) IS2_Naphthalene-d8	7.742	136	159422	4.000	ug/ml	#	0.00
Standard Area 3 = 154118			Recovery = 103.44%				
62) IS1_Acenaphthene-d10	9.507	164	96747	4.000	ug/ml		0.00
Standard Area 1 = 97665			Recovery = 99.06%				
82) IS2_Acenaphthene-d10	9.507	164	96747	4.000	ug/ml		0.00
Standard Area 3 = 90309			Recovery = 107.13%				
85) IS3_Acenaphthene-d10	9.507	164	96747	4.000	ug/ml		0.00
Standard Area 2 = 93275			Recovery = 103.72%				
87) IS1_Phenanthrene-d10	10.936	188	189102	4.000	ug/ml		0.00
Standard Area 1 = 187583			Recovery = 100.81%				
99) IS3_Phenanthrene-d10	10.936	188	189102	4.000	ug/ml		0.00
Standard Area 2 = 186356			Recovery = 101.47%				
103) IS1_Chrysene-d12	13.554	240	167347	4.000	ug/ml		0.00
Standard Area 1 = 165909			Recovery = 100.87%				
112) IS1_Perylene-d12	15.007	264	189441	4.000	ug/ml		0.00
Standard Area 1 = 188234			Recovery = 100.64%				
System Monitoring Compounds							
4) 2-Fluorophenol	4.325	112	39696	3.373	ug/ml		0.02
Spiked Amount 5.000	Range 15 - 110		Recovery = 67.46%				
7) Phenol-d6	5.948	99	43552	2.873	ug/ml		0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 57.46%				
19) Nitrobenzene-d5	6.972	82	25741	1.873	ug/ml		0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 74.92%				
45) 2-Fluorobiphenyl	8.872	172	53413	1.755	ug/ml		0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 70.20%				
78) 2,4,6-Tribromophenol	10.272	330	15819	3.564	ug/ml		0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 71.28%				
95) 4-Terphenyl-d14	12.513	244	68005	1.640	ug/ml		0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 65.60%				

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240305lvi\
Data File : 892048-6.D
Acq On : 5 Mar 2024 7:23 pm
Operator : SV106:ek
Sample : WG1892048-6,32,,HNY
Misc : WG1892411,WG1892048,ical20337
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Mar 05 19:47:35 2024
Quant Method : I:\8270\sv106\240305lvi\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Mar 05 19:43:12 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv106\240305lvi\ABN0305.D
: 2 - I:\8270\sv106\240305lvi\ADP0305.D
: 3 - I:\8270\sv106\240305lvi\AP90305.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Target Compounds						Qvalue
2) n-Nitrosodimethylamine	1.966	74	23750	3.324	ug/ml#	71
3) Pyridine	2.013	79	24789	2.042	ug/ml#	70
5) Aniline	5.895	93	46303	2.318	ug/ml	100
6) 2-Chlorophenol	6.042	128	49091	3.652	ug/ml	94
8) Phenol	5.966	94	50259	3.132	ug/ml	97
9) Bis(2-chloroethyl)ether	6.031	93	46322	3.594	ug/ml#	77
10) 1,3-Dichlorobenzene	6.231	146	50028	3.246	ug/ml	97
11) 1,4-Dichlorobenzene	6.331	146	50557	3.188	ug/ml	97
12) 1,2-Dichlorobenzene	6.507	146	49957	3.309	ug/ml	99
13) Benzyl alcohol	6.525	79	41825	3.693	ug/ml	91
14) Bis(2-chloroisopropyl)...	6.701	45	73514	3.872	ug/ml#	59
15) 2-Methylphenol	6.707	108	40726	3.393	ug/ml	98
17) n-Nitrosodi-n-propylamine	6.854	70	35373	3.632	ug/ml	94
18) 3-Methylphenol/4-Methy...	6.889	108	48818	3.877	ug/ml#	95
20) Nitrobenzene	6.995	77	57501	4.210	ug/ml	95
21) Isophorone	7.278	82	93296	3.569	ug/ml	95
22) 2-Nitrophenol	7.354	139	25442	4.657	ug/ml#	95
23) 2,4-Dimethylphenol	7.460	107	37745	2.793	ug/ml	99
24) Bis(2-chloroethoxy)met...	7.554	93	61453	3.752	ug/ml	99
25) 2,4-Dichlorophenol	7.625	162	44434	3.916	ug/ml	96
26) 1,2,4-Trichlorobenzene	7.701	180	48308	3.708	ug/ml	96
28) Benzaldehyde	5.725	105	40189	4.104	ug/ml	97
29) Acetophenone	6.813	105	71350	3.392	ug/ml#	81
36) Benzoic Acid	7.548	105	39315	5.198	ug/ml	99
37) 4-Chloroaniline	7.854	65	19353M3	3.678	ug/ml	
39) p-Chloro-m-cresol	8.383	107	45579	3.923	ug/ml	96
42) Hexachlorocyclopentadiene	8.660	237	23807	2.724	ug/ml	99
43) 2,4,6-Trichlorophenol	8.783	196	35071	4.219	ug/ml	95
44) 2,4,5-Trichlorophenol	8.813	196	37540	4.198	ug/ml	99
47) 2-Nitroaniline	9.078	138	28387	3.952	ug/ml	98
50) Dimethyl phthalate	9.283	163	112702	3.591	ug/ml#	98
52) 2,6-Dinitrotoluene	9.325	165	24694	4.169	ug/ml#	85
59) Caprolactam	8.172	55	14542	2.488	ug/ml#	79
60) 1,2,4,5-Tetrachloroben...	8.660	216	50067	3.611	ug/ml	97
61) Biphenyl	8.960	154	122586	3.594	ug/ml	99
63) 3-Nitroaniline	9.477	138	21990	3.177	ug/ml	97
65) 2,4-Dinitrophenol	9.583	184	16278	5.279	ug/ml	96

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240305lvi\
Data File : 892048-6.D
Acq On : 5 Mar 2024 7:23 pm
Operator : SV106:ek
Sample : WG1892048-6,32,,HNY
Misc : WG1892411,WG1892048,ical20337
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Mar 05 19:47:35 2024
Quant Method : I:\8270\sv106\240305lvi\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Mar 05 19:43:12 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv106\240305lvi\ABN0305.D
: 2 - I:\8270\sv106\240305lvi\ADP0305.D
: 3 - I:\8270\sv106\240305lvi\AP90305.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
66) Dibenzofuran	9.707	168	142783	3.493	ug/ml	94
67) 2,4-Dinitrotoluene	9.713	165	35113	4.103	ug/ml	96
68) 4-Nitrophenol	9.677	65	23749	3.739	ug/ml#	90
70) 2,3,4,6-Tetrachlorophenol	9.842	232	31388	3.849	ug/ml	96
71) Diethyl phthalate	9.977	149	114306	3.340	ug/ml	96
73) 4-Chlorophenyl phenyl ...	10.060	204	54399	3.529	ug/ml	93
74) 4-Nitroaniline	10.066	138	19544	2.798	ug/ml#	92
75) 4,6-Dinitro-o-cresol	10.101	198	21378	5.278	ug/ml#	67
76) NDPA/DPA	10.177	169	92906	3.418	ug/ml	99
77) Azobenzene	10.207	77	106949	3.352	ug/ml	94
79) 4-Bromophenyl phenyl e...	10.530	248	32510	3.624	ug/ml	88
84) Pentachloronitrobenzene	10.783	237	16747	4.175	ug/ml#	80
86) Atrazine	10.719	200	31082	3.729	ug/ml	96
90) Carbazole	11.177	167	162030	3.459	ug/ml	99
91) Di-n-butylphthalate	11.571	149	192010	3.201	ug/ml	99
93) Benzidine	0.000		0	N.D.	d	
96) Butyl benzyl phthalate	13.036	149	89449	3.495	ug/ml	94
101) Parathion	11.724	109	23035	5.190	ug/ml	97
105) 3,3'-Dichlorobenzidine	0.000		0	N.D.	d	
107) Bis(2-ethylhexyl)phtha...	13.677	149	130617	3.513	ug/ml	97
108) Di-n-octylphthalate	14.348	149	232908	3.713	ug/ml#	73

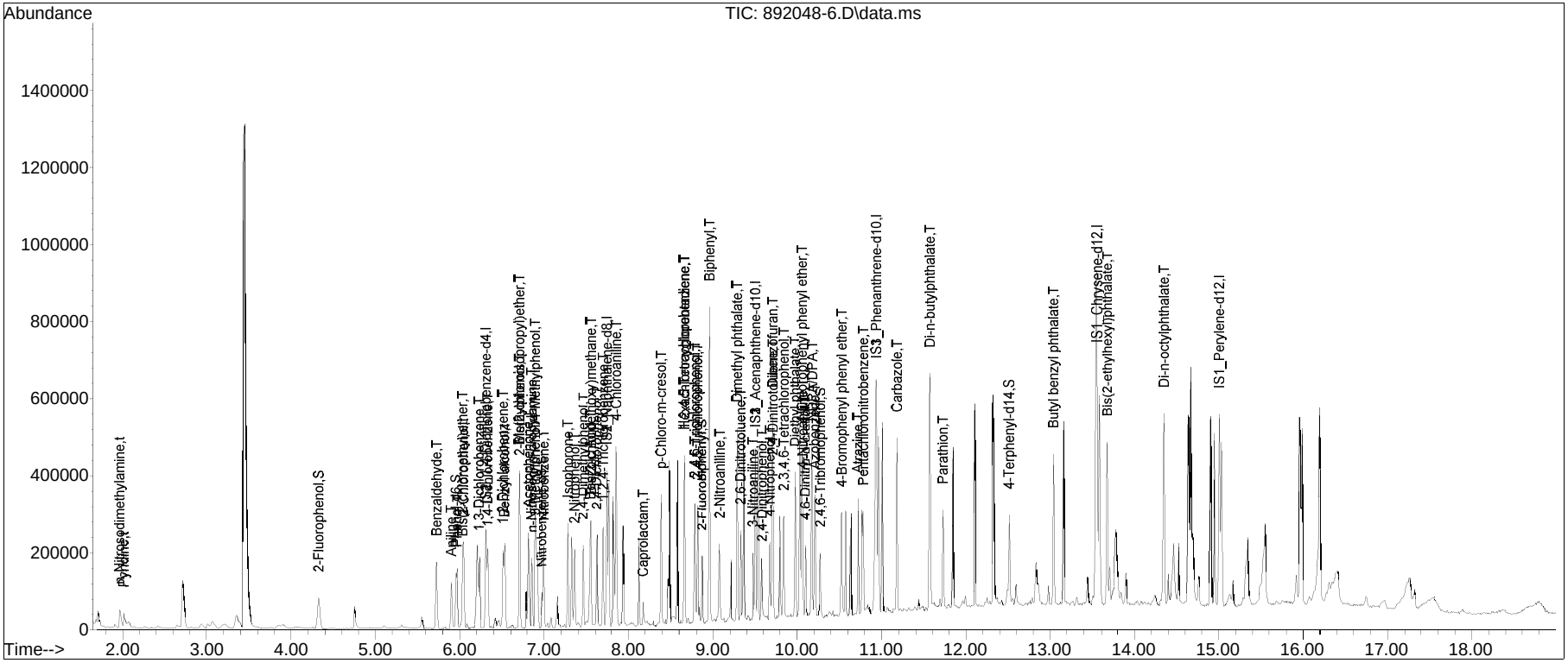
(#) = qualifier out of range (m) = manual integration (+) = signals summed

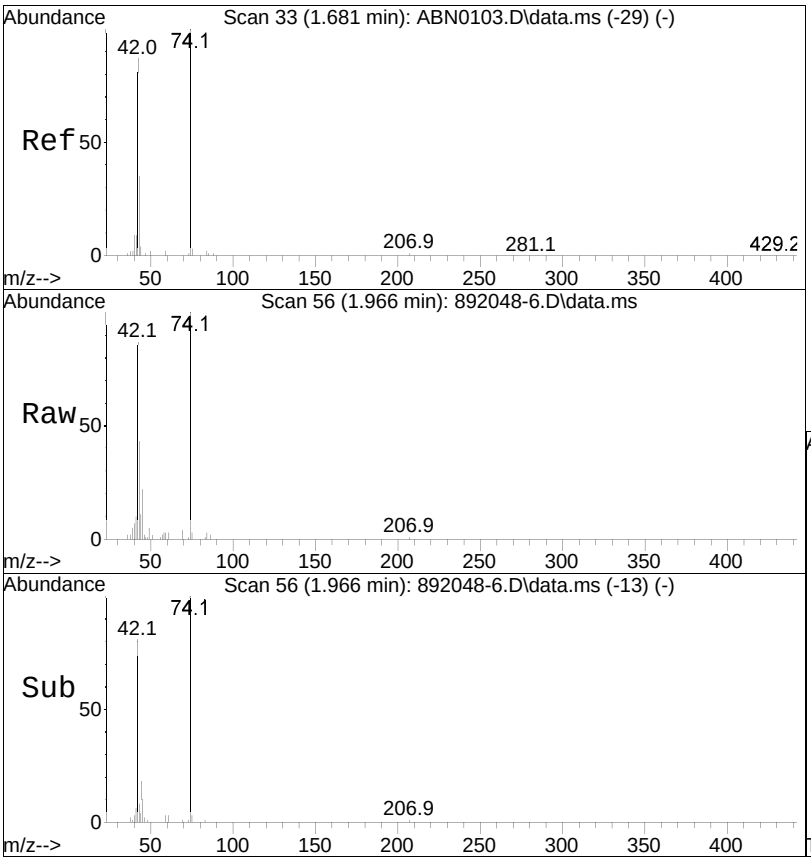
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240305lvi\
Data File : 892048-6.D
Acq On : 5 Mar 2024 7:23 pm
Operator : SV106:ek
Sample : WG1892048-6,32,,HNY
Misc : WG1892411,WG1892048,ical20337
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Mar 05 19:47:35 2024
Quant Method : I:\8270\sv106\240305lvi\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Mar 05 19:43:12 2024
Response via : Initial Calibration

Sub List : 8270TCL_combo_REV1 - TCL/CT/MA90305.D•

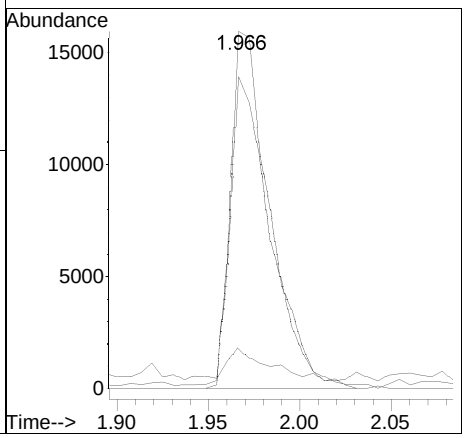


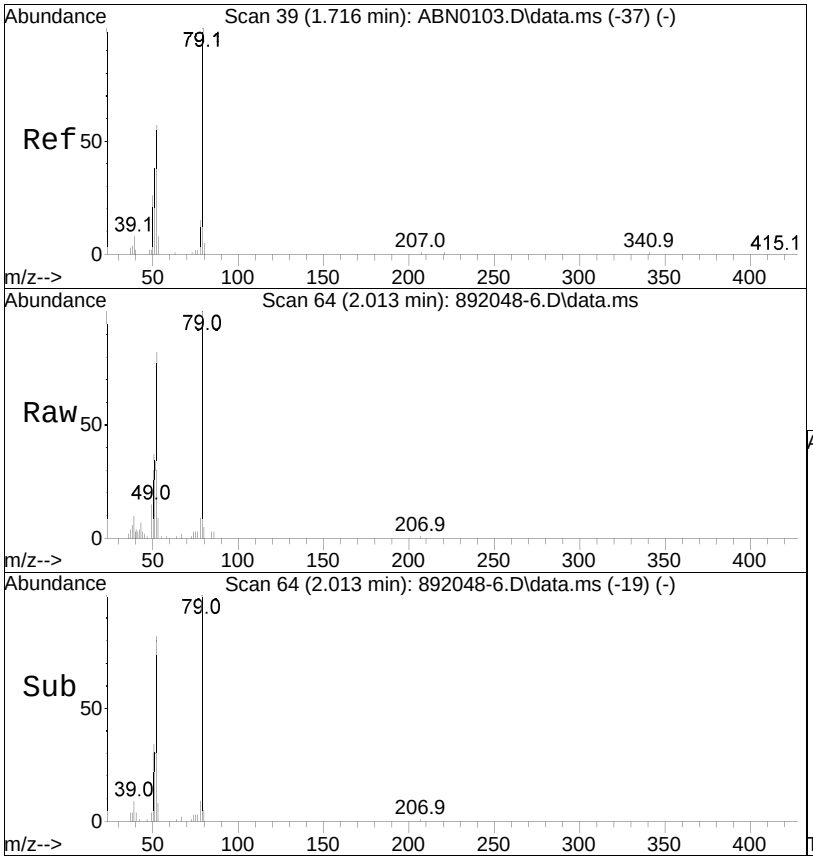


#2
n-Nitrosodimethylamine
Concen: 3.32 ug/ml
RT: 1.966 min Scan# 56
Delta R.T. 0.000 min
Lab File: 892048-6.D
Acq: 5 Mar 2024 7:23 pm

Tgt Ion: 74 Resp: 23750

Ion	Ratio	Lower	Upper
74	100		
42	89.9	100.0	150.0#
44	10.0	6.7	10.1

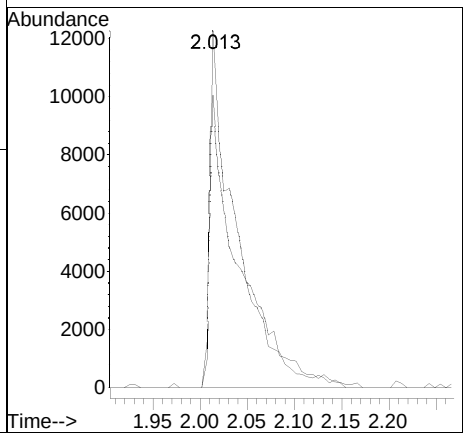


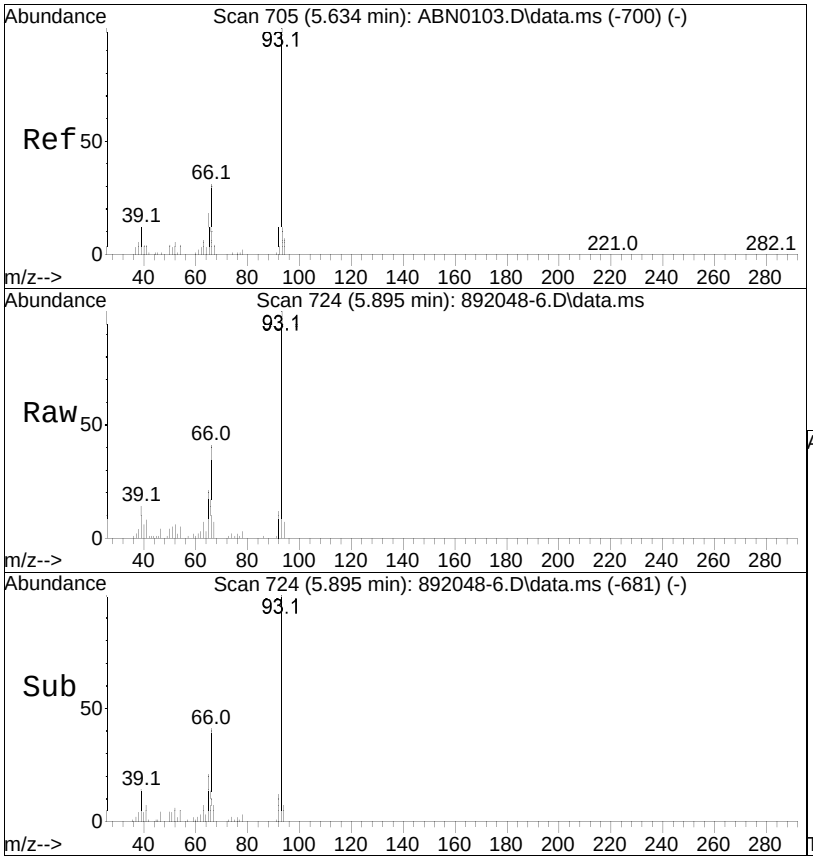


#3
Pyridine
Concen: 2.04 ug/ml
RT: 2.013 min Scan# 64
Delta R.T. 0.012 min
Lab File: 892048-6.D
Acq: 5 Mar 2024 7:23 pm

Tgt Ion: 79 Resp: 24789

Ion	Ratio	Lower	Upper
79	100		
52	83.7	93.1	139.7#

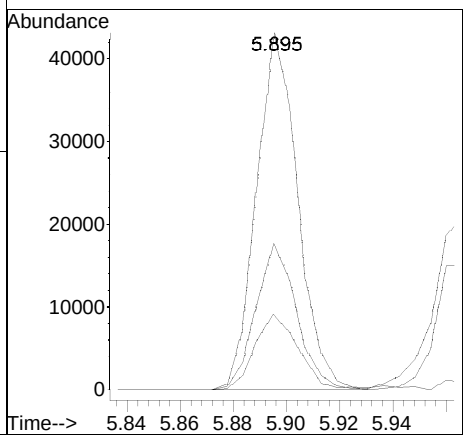


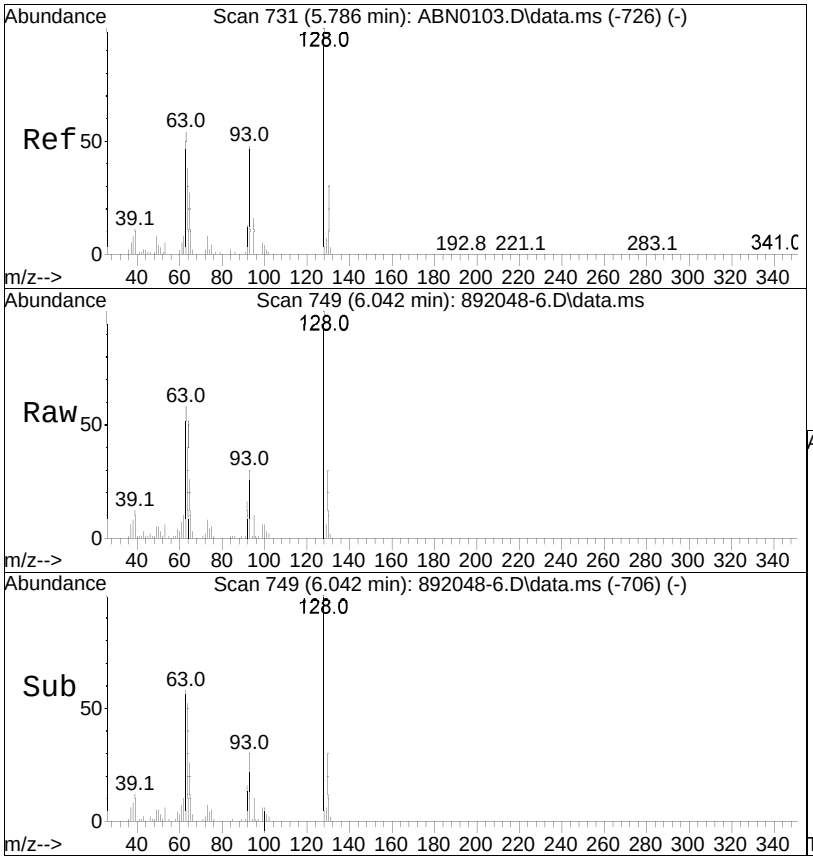


#5
Aniline
Concen: 2.32 ug/ml
RT: 5.895 min Scan# 724
Delta R.T. 0.000 min
Lab File: 892048-6.D
Acq: 5 Mar 2024 7:23 pm

Tgt Ion: 93 Resp: 46303

Ion	Ratio	Lower	Upper
93	100		
66	40.6	32.6	49.0
65	22.3	17.6	26.4

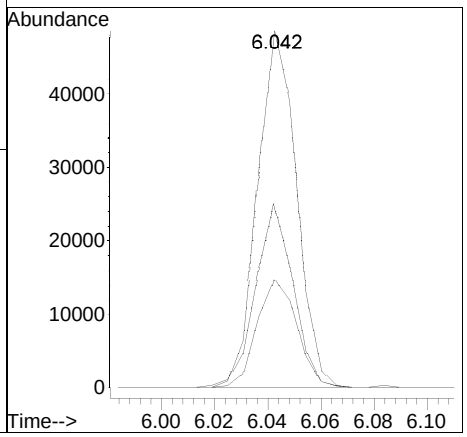


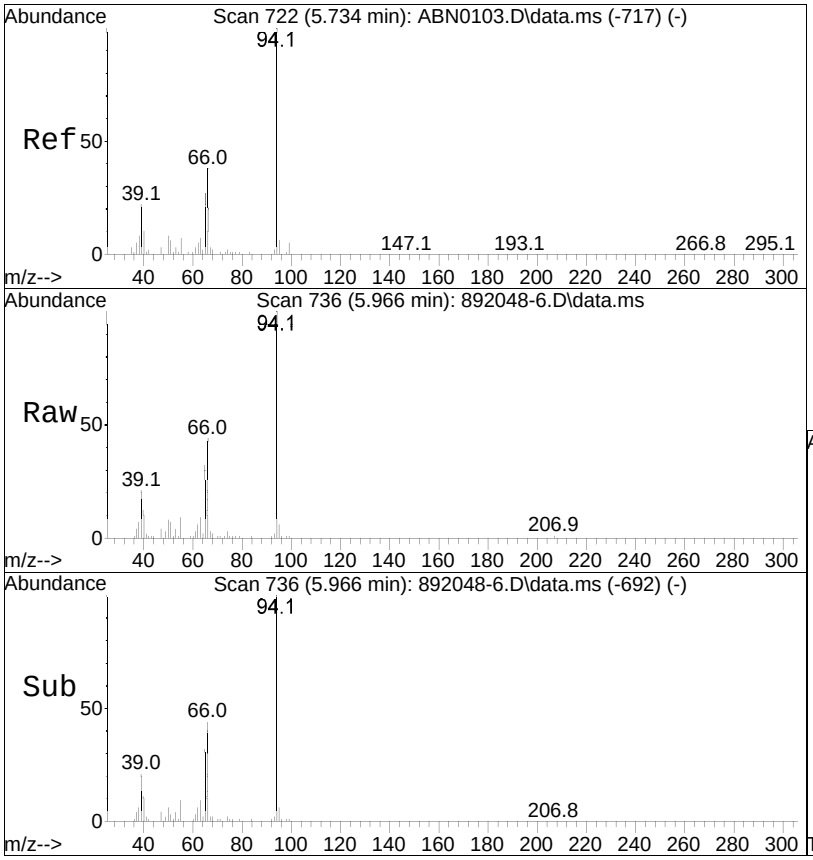


#6
2-Chlorophenol
Concen: 3.65 ug/ml
RT: 6.042 min Scan# 749
Delta R.T. 0.000 min
Lab File: 892048-6.D
Acq: 5 Mar 2024 7:23 pm

Tgt Ion:128 Resp: 49091

Ion	Ratio	Lower	Upper
128	100		
64	50.0	45.1	67.7
130	31.3	26.2	39.4

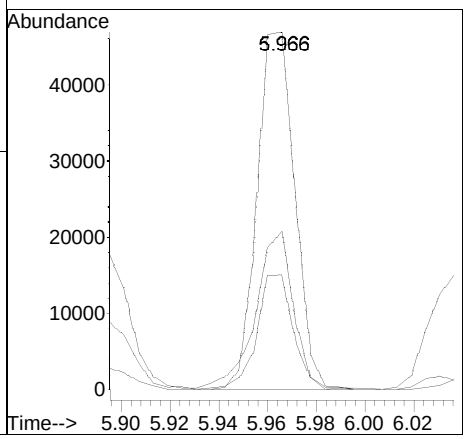


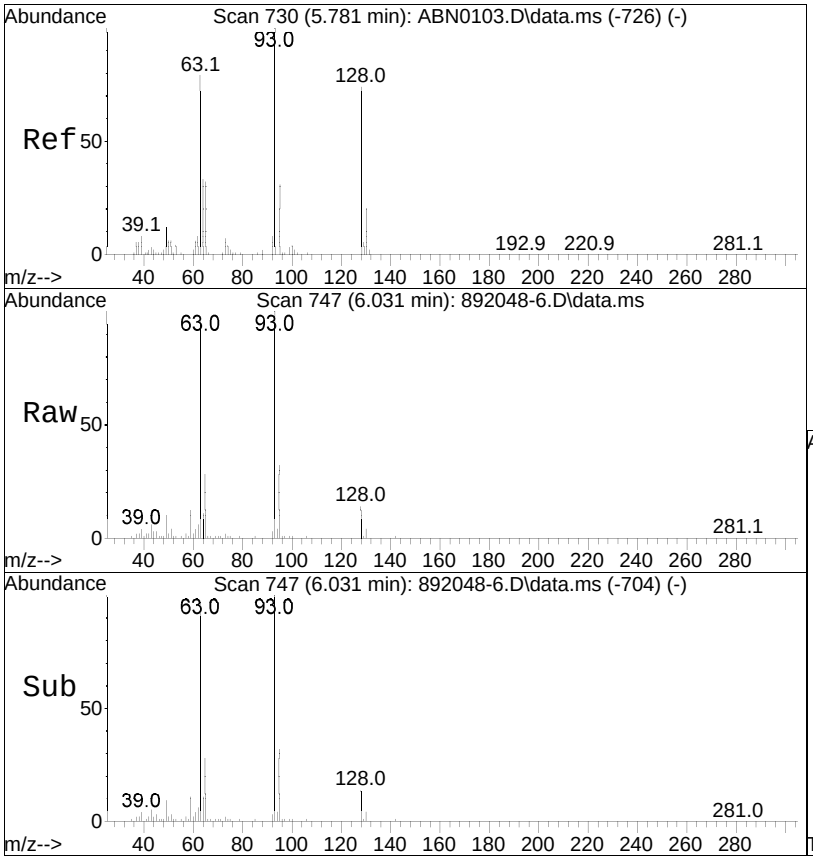


#8
Phenol
Concen: 3.13 ug/ml
RT: 5.966 min Scan# 736
Delta R.T. 0.006 min
Lab File: 892048-6.D
Acq: 5 Mar 2024 7:23 pm

Tgt Ion: 94 Resp: 50259

Ion	Ratio	Lower	Upper
94	100		
65	31.3	26.0	39.0
66	45.1	33.8	50.8

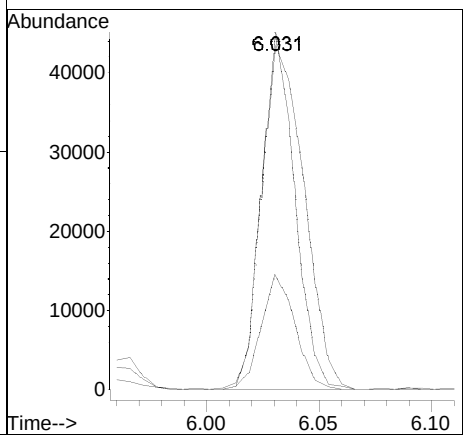


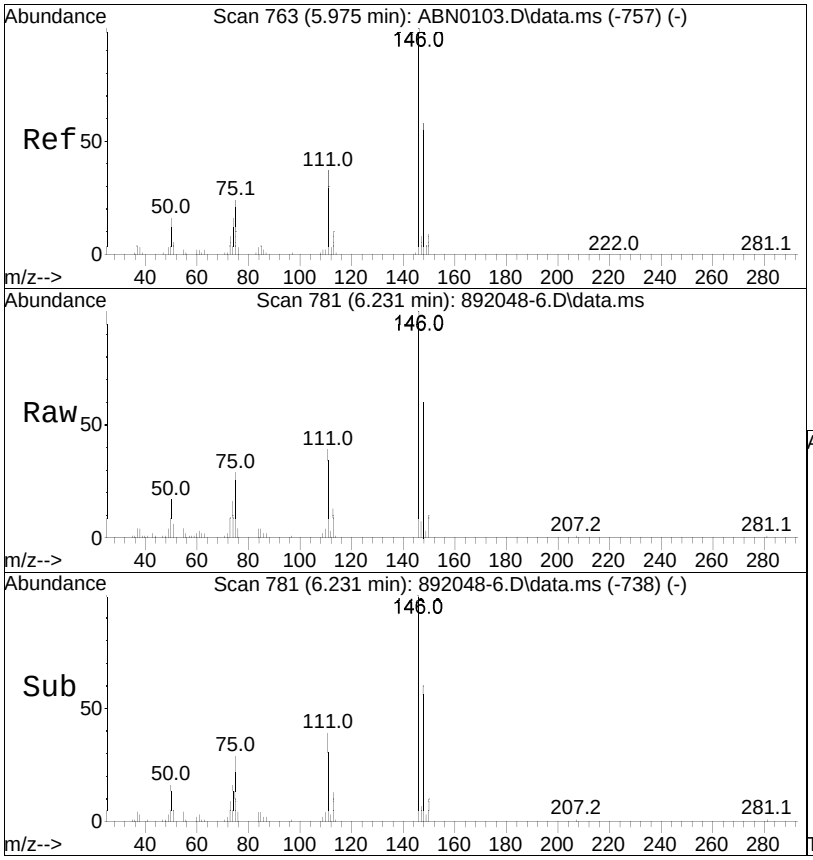


#9
Bis(2-chloroethyl)ether
Concen: 3.59 ug/ml
RT: 6.031 min Scan# 747
Delta R.T. 0.000 min
Lab File: 892048-6.D
Acq: 5 Mar 2024 7:23 pm

Tgt Ion: 93 Resp: 46322

Ion	Ratio	Lower	Upper
93	100		
63	122.1	74.6	111.8#
95	33.0	25.9	38.9

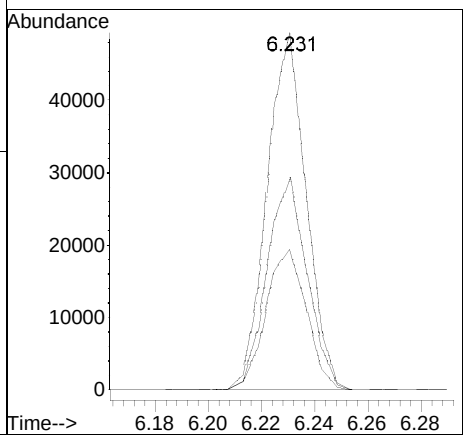


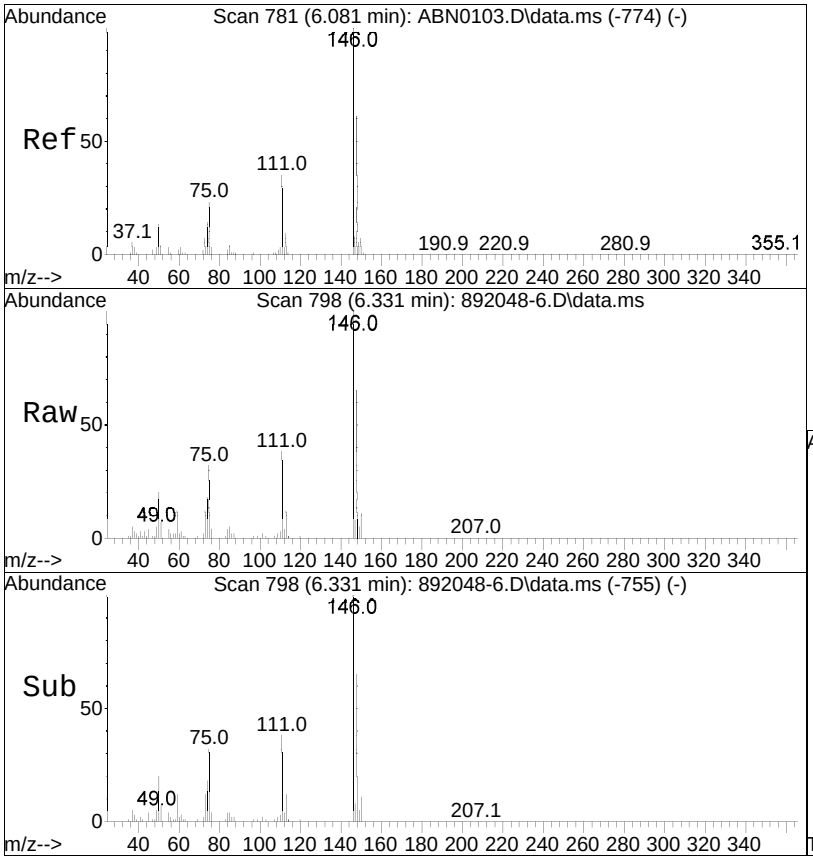


#10
1,3-Dichlorobenzene
Concen: 3.25 ug/ml
RT: 6.231 min Scan# 781
Delta R.T. 0.000 min
Lab File: 892048-6.D
Acq: 5 Mar 2024 7:23 pm

Tgt Ion:146 Resp: 50028

Ion	Ratio	Lower	Upper
146	100		
111	41.0	34.3	51.5
148	61.1	50.8	76.2

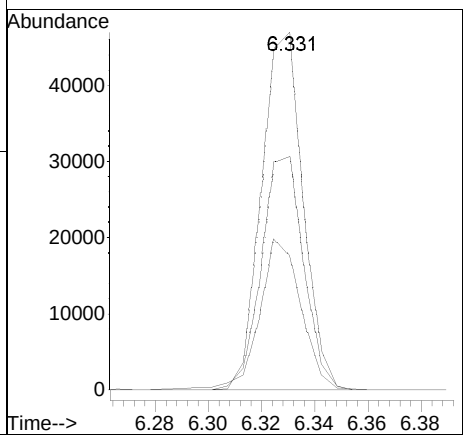


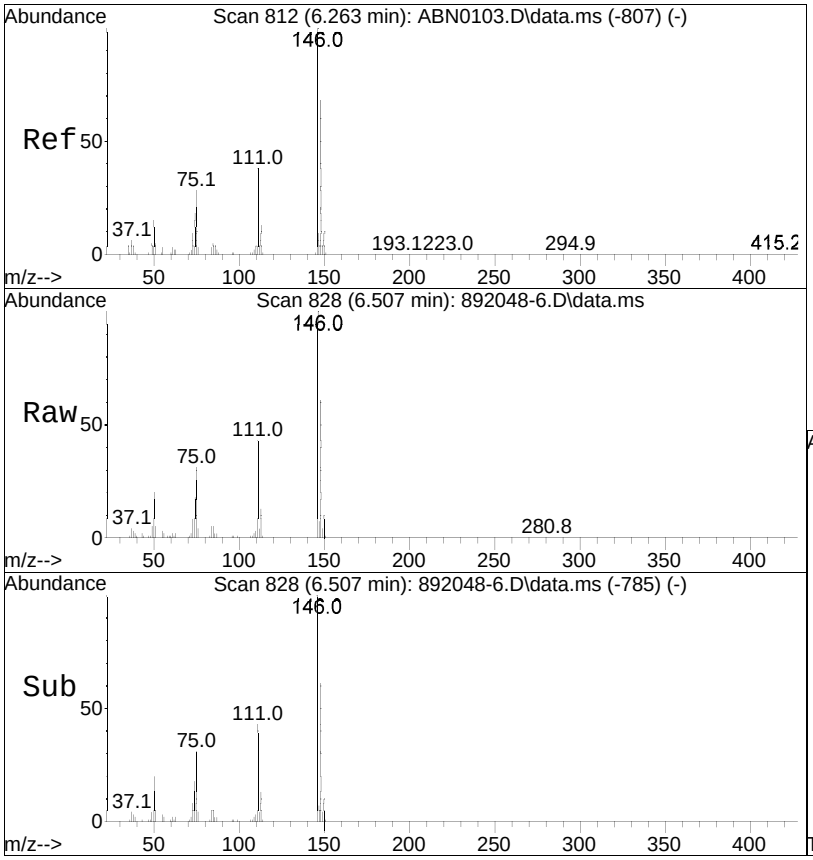


#11
1,4-Dichlorobenzene
Concen: 3.19 ug/ml
RT: 6.331 min Scan# 798
Delta R.T. 0.000 min
Lab File: 892048-6.D
Acq: 5 Mar 2024 7:23 pm

Tgt Ion:146 Resp: 50557

Ion	Ratio	Lower	Upper
146	100		
148	66.8	50.7	76.1
111	42.5	33.4	50.0

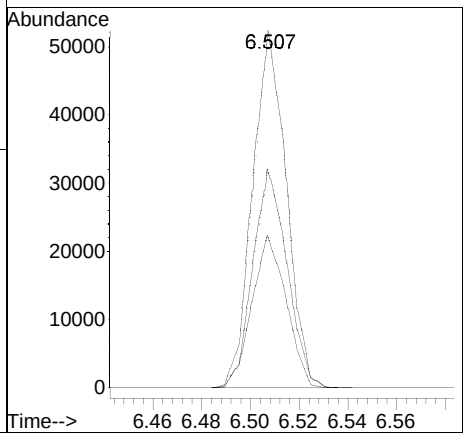


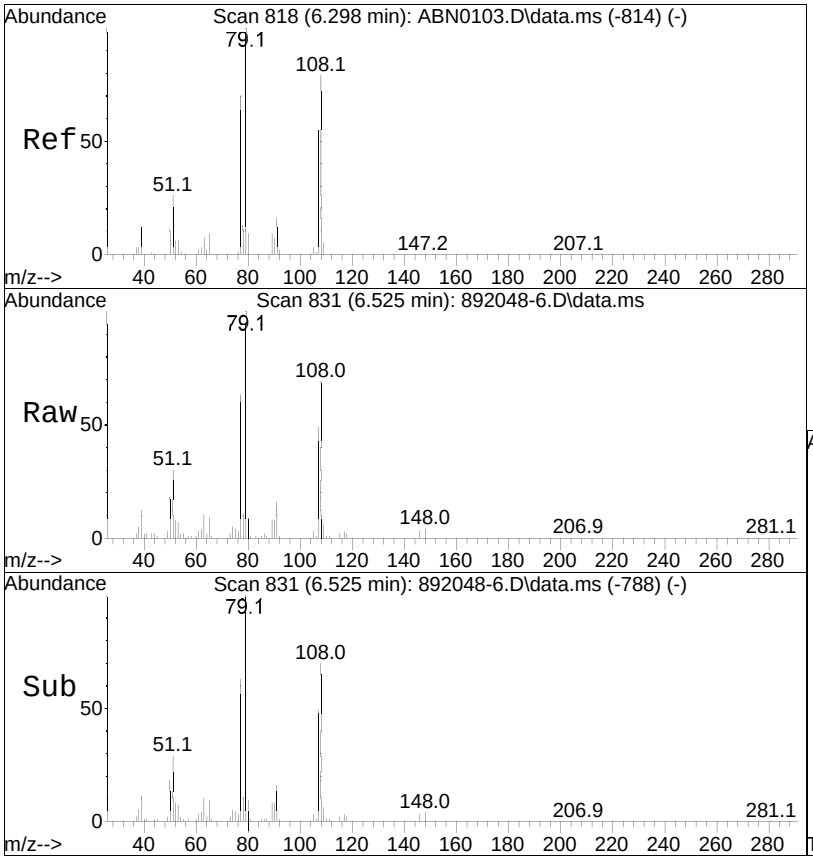


#12
1,2-Dichlorobenzene
Concen: 3.31 ug/ml
RT: 6.507 min Scan# 828
Delta R.T. 0.000 min
Lab File: 892048-6.D
Acq: 5 Mar 2024 7:23 pm

Tgt Ion:146 Resp: 49957

Ion	Ratio	Lower	Upper
146	100		
111	43.9	34.6	52.0
148	62.5	50.2	75.4

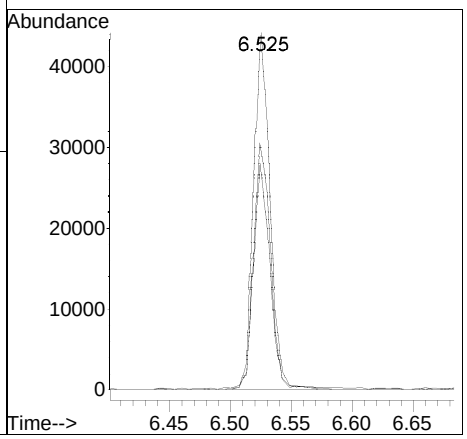


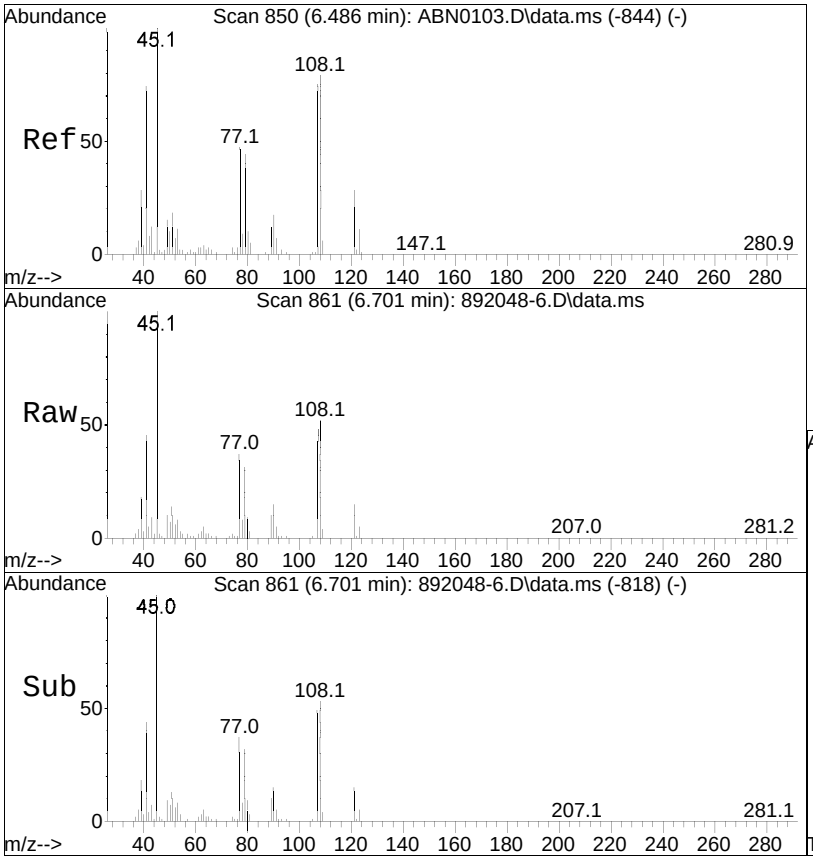


#13
Benzyl alcohol
Concen: 3.69 ug/ml
RT: 6.525 min Scan# 831
Delta R.T. 0.000 min
Lab File: 892048-6.D
Acq: 5 Mar 2024 7:23 pm

Tgt Ion: 79 Resp: 41825

Ion	Ratio	Lower	Upper
79	100		
77	62.6	54.9	82.3
108	70.5	63.1	94.7

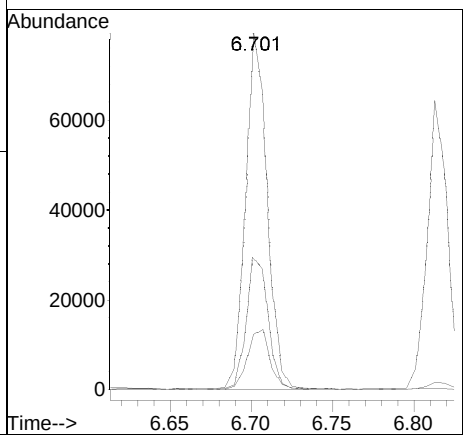


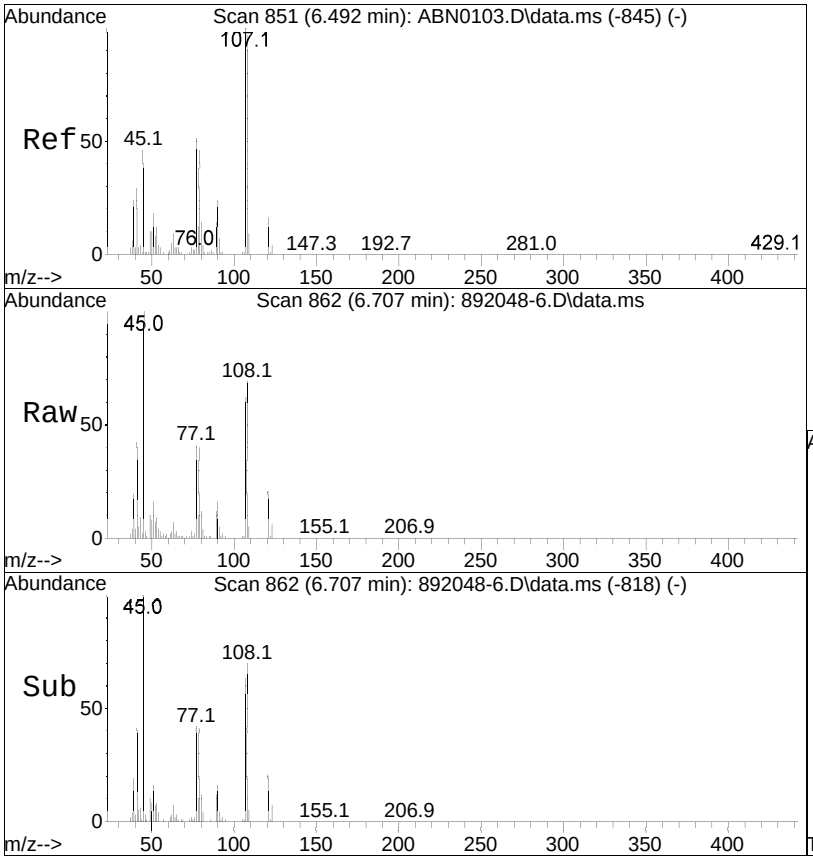


#14
Bis(2-chloroisopropyl)ether
Concen: 3.87 ug/ml
RT: 6.701 min Scan# 861
Delta R.T. 0.000 min
Lab File: 892048-6.D
Acq: 5 Mar 2024 7:23 pm

Tgt Ion: 45 Resp: 73514

Ion	Ratio	Lower	Upper
45	100		
121	17.5	9.8	14.6#
77	37.6	6.1	9.1#

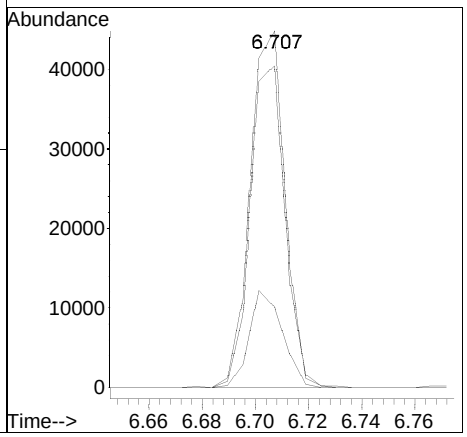


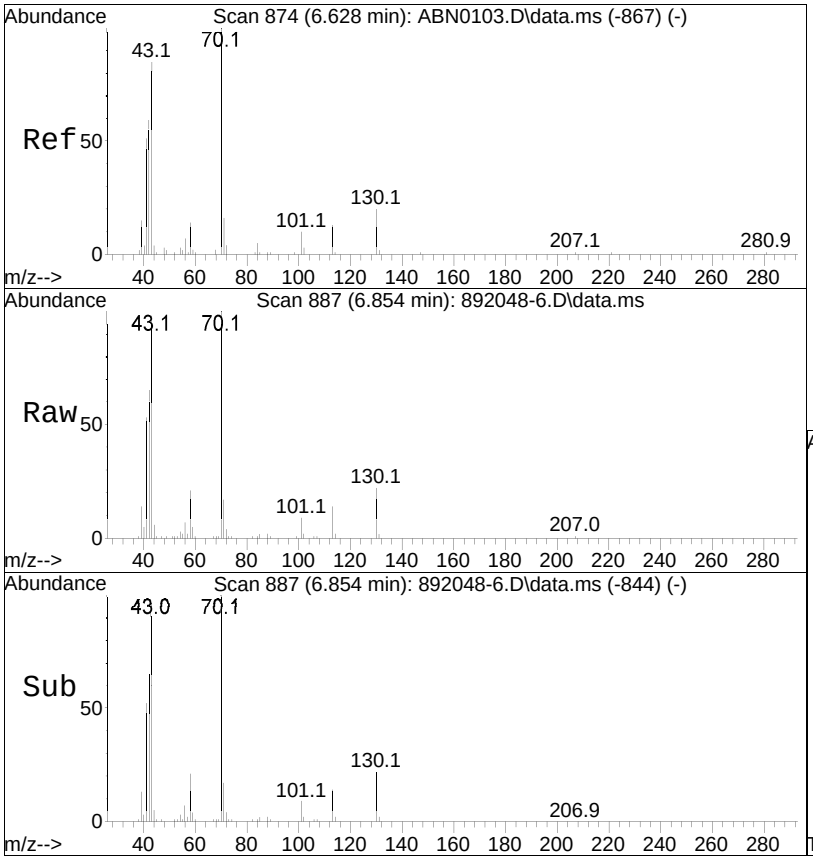


#15
2-Methylphenol
Concen: 3.39 ug/ml
RT: 6.707 min Scan# 862
Delta R.T. 0.006 min
Lab File: 892048-6.D
Acq: 5 Mar 2024 7:23 pm

Tgt Ion:108 Resp: 40726

Ion	Ratio	Lower	Upper
108	100		
107	89.9	70.7	106.1
90	26.0	18.7	28.1

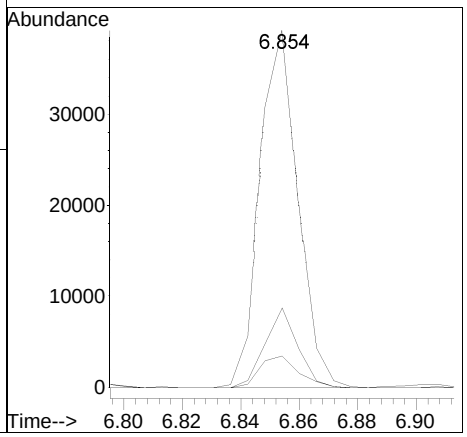


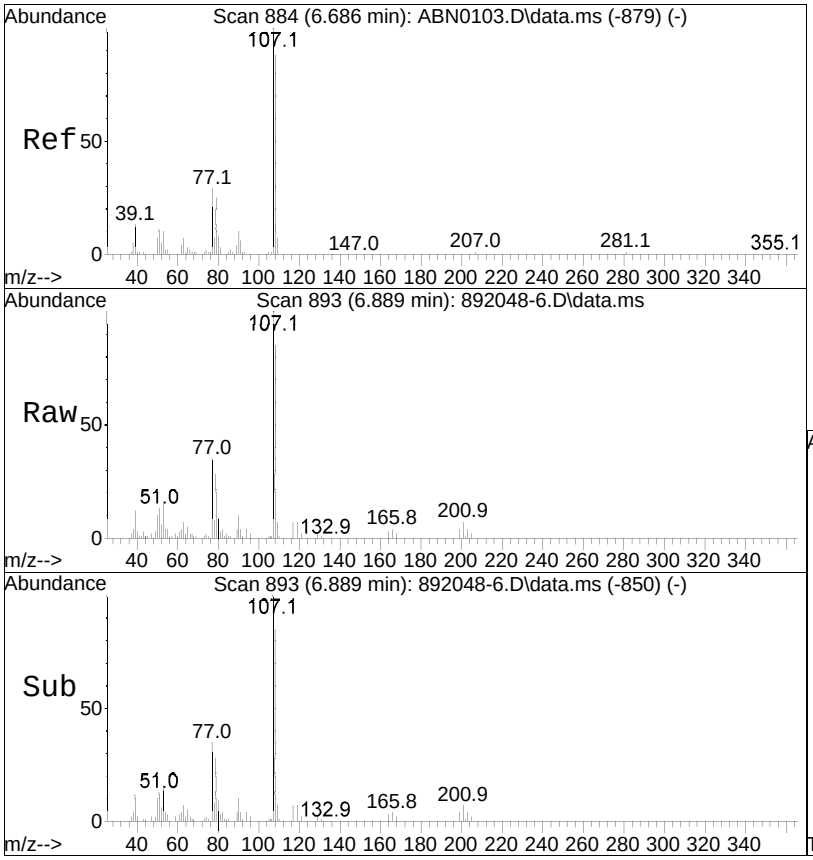


#17
n-Nitrosodi-n-propylamine
Concen: 3.63 ug/ml
RT: 6.854 min Scan# 887
Delta R.T. 0.000 min
Lab File: 892048-6.D
Acq: 5 Mar 2024 7:23 pm

Tgt Ion: 70 Resp: 35373

Ion	Ratio	Lower	Upper
70	100		
130	19.2	18.2	27.4
101	9.1	7.8	11.8

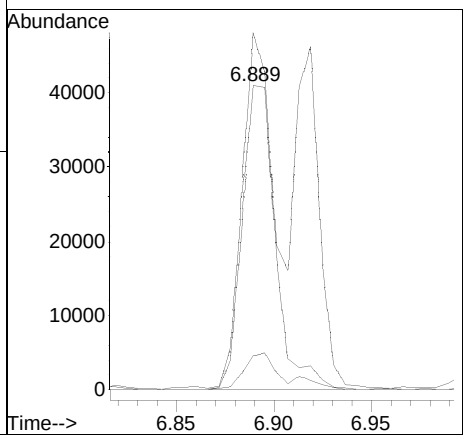


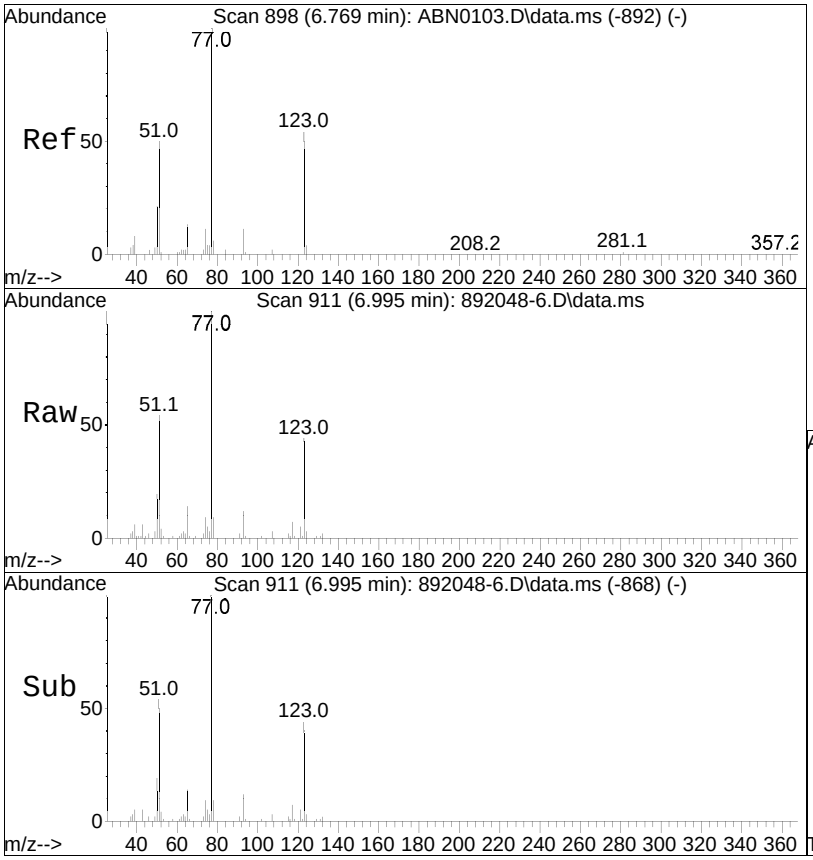


#18
3-Methylphenol/4-Methylphenol
Concen: 3.88 ug/ml
RT: 6.889 min Scan# 893
Delta R.T. 0.000 min
Lab File: 892048-6.D
Acq: 5 Mar 2024 7:23 pm

Tgt Ion:108 Resp: 48818

Ion	Ratio	Lower	Upper
108	100		
107	115.3	88.6	132.8
90	13.9	8.8	13.2#

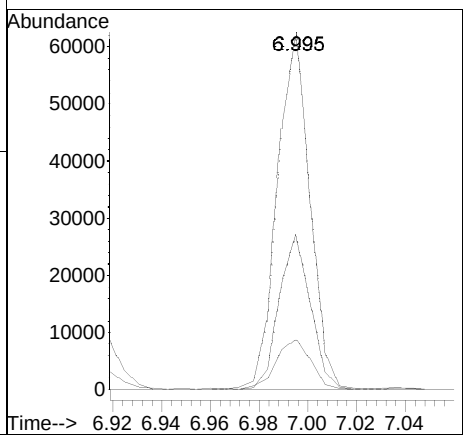


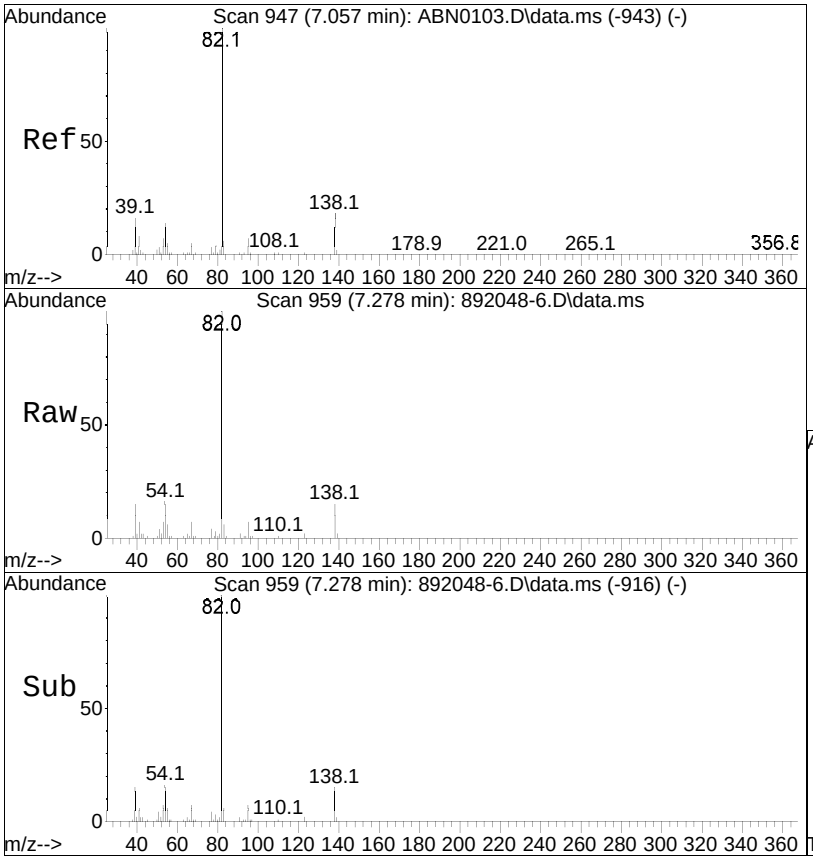


#20
Nitrobenzene
Concen: 4.21 ug/ml
RT: 6.995 min Scan# 911
Delta R.T. 0.000 min
Lab File: 892048-6.D
Acq: 5 Mar 2024 7:23 pm

Tgt Ion: 77 Resp: 57501

Ion	Ratio	Lower	Upper
77	100		
123	41.8	36.3	54.5
65	15.1	11.6	17.4

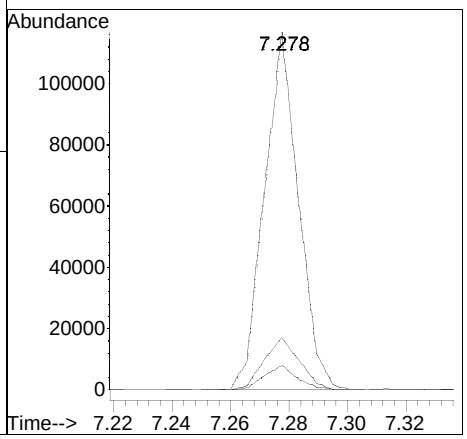


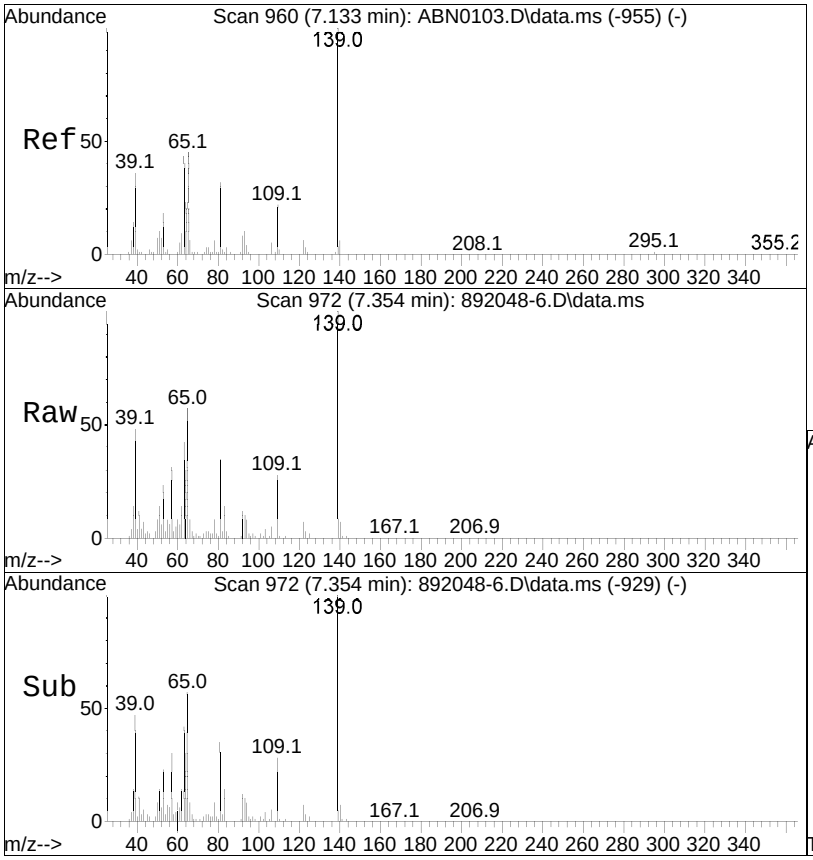


#21
Isophorone
Concen: 3.57 ug/ml
RT: 7.278 min Scan# 959
Delta R.T. 0.000 min
Lab File: 892048-6.D
Acq: 5 Mar 2024 7:23 pm

Tgt Ion: 82 Resp: 93296

Ion	Ratio	Lower	Upper
82	100		
138	15.3	14.7	22.1
95	6.9	5.2	7.8

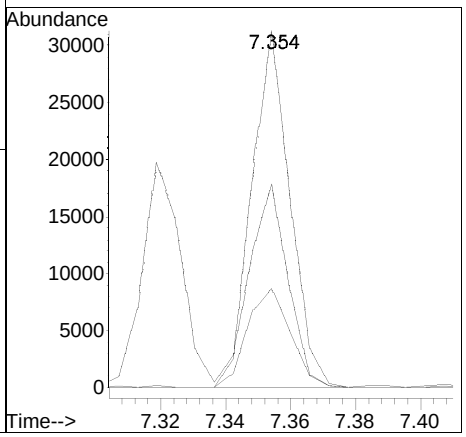


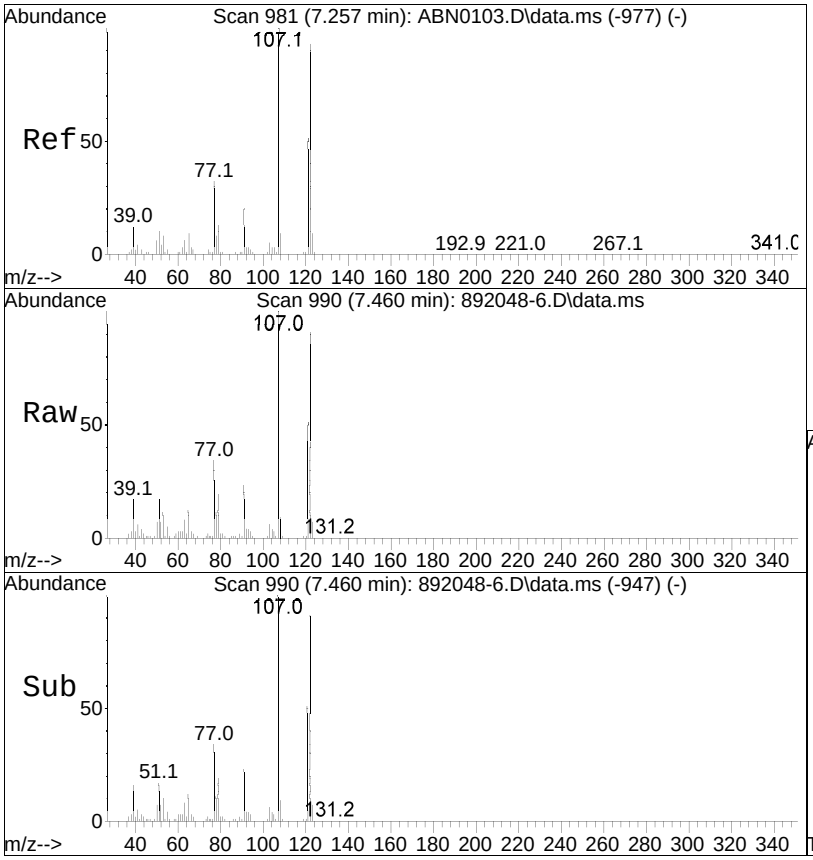


#22
2-Nitrophenol
Concen: 4.66 ug/ml
RT: 7.354 min Scan# 972
Delta R.T. 0.000 min
Lab File: 892048-6.D
Acq: 5 Mar 2024 7:23 pm

Tgt Ion:139 Resp: 25442

Ion	Ratio	Lower	Upper
139	100		
109	31.3	19.4	29.0#
65	58.3	46.1	69.1

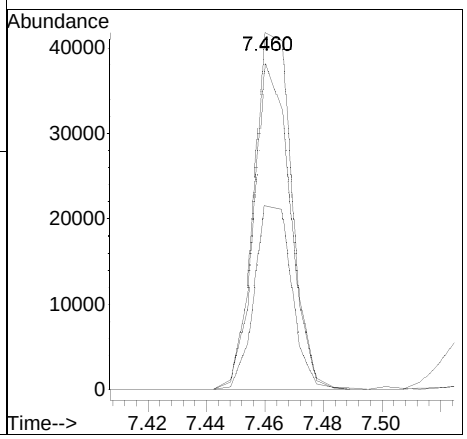


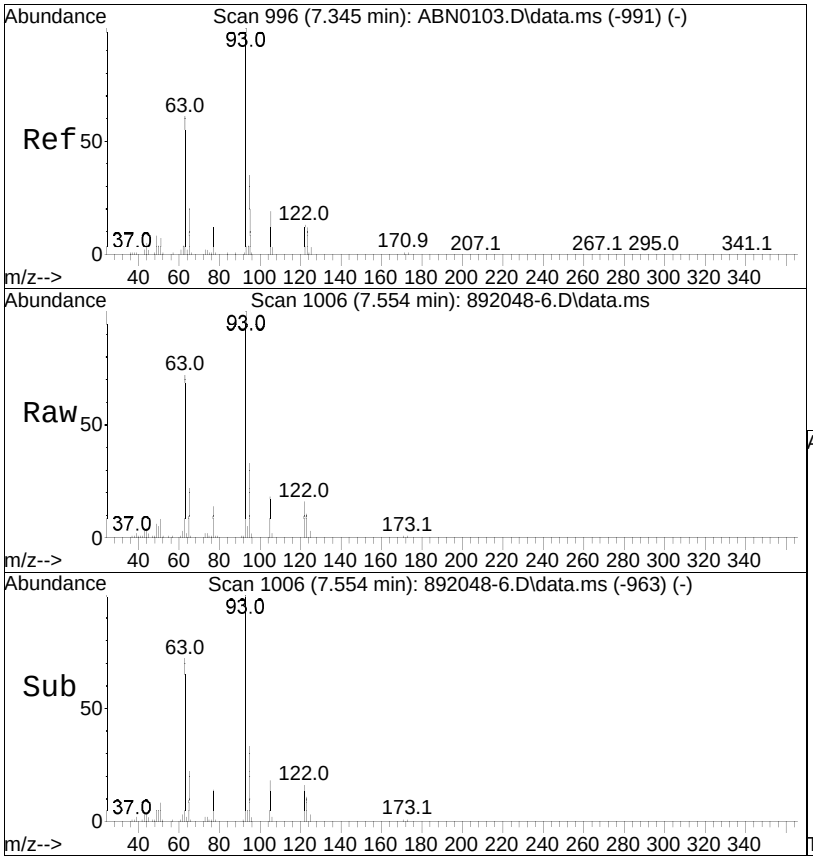


#23
2,4-Dimethylphenol
Concen: 2.79 ug/ml
RT: 7.460 min Scan# 990
Delta R.T. 0.000 min
Lab File: 892048-6.D
Acq: 5 Mar 2024 7:23 pm

Tgt Ion:107 Resp: 37745

Ion	Ratio	Lower	Upper
107	100		
121	50.8	40.0	60.0
122	86.7	70.2	105.4

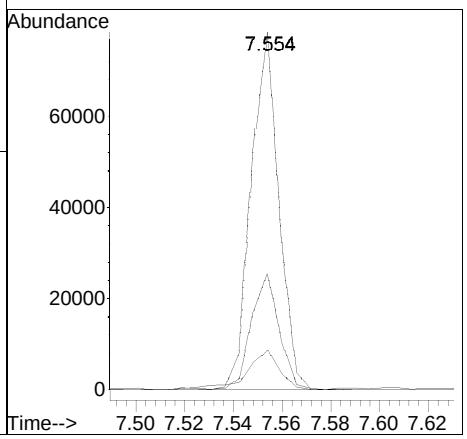


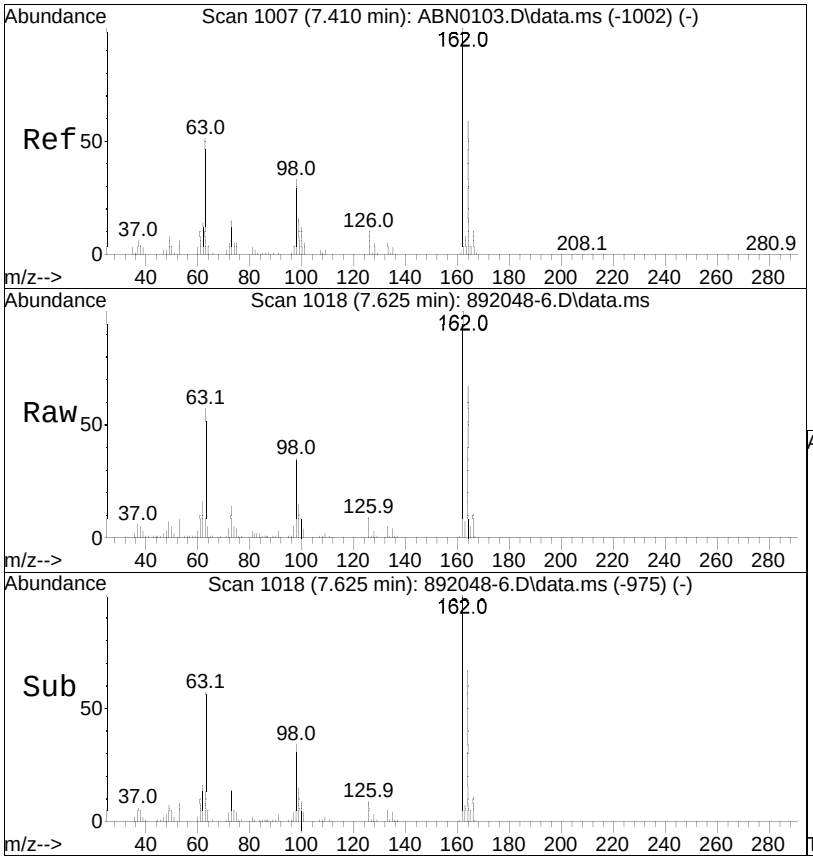


#24
Bis(2-chloroethoxy)methane
Concen: 3.75 ug/ml
RT: 7.554 min Scan# 1006
Delta R.T. 0.000 min
Lab File: 892048-6.D
Acq: 5 Mar 2024 7:23 pm

Tgt Ion: 93 Resp: 61453

Ion	Ratio	Lower	Upper
93	100		
95	32.3	25.8	38.8
123	13.4	10.1	15.1

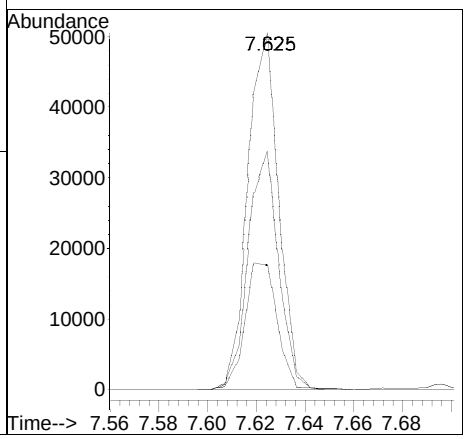


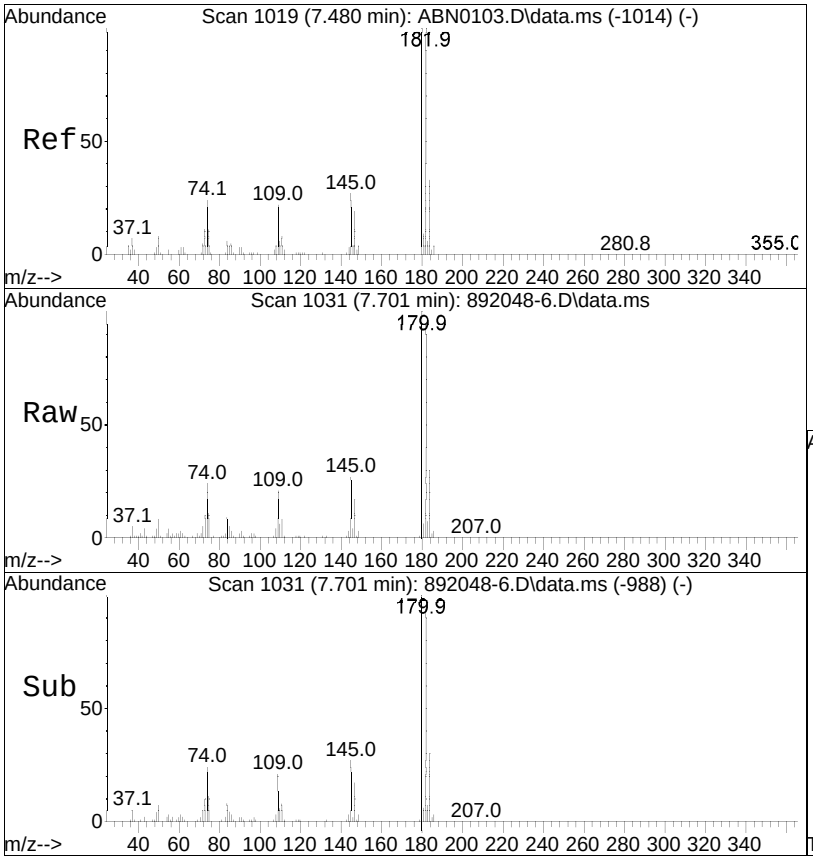


#25
2,4-Dichlorophenol
Concen: 3.92 ug/ml
RT: 7.625 min Scan# 1018
Delta R.T. 0.000 min
Lab File: 892048-6.D
Acq: 5 Mar 2024 7:23 pm

Tgt Ion:162 Resp: 44434

Ion	Ratio	Lower	Upper
162	100		
164	66.3	51.0	76.4
98	37.8	32.2	48.2

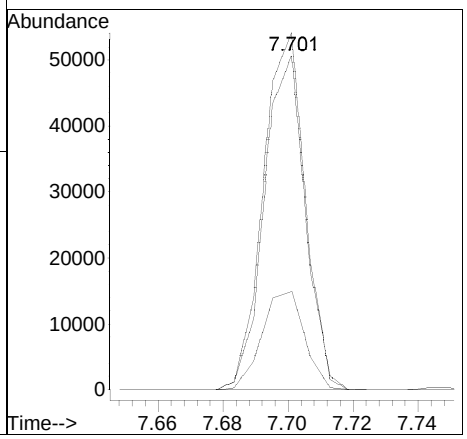


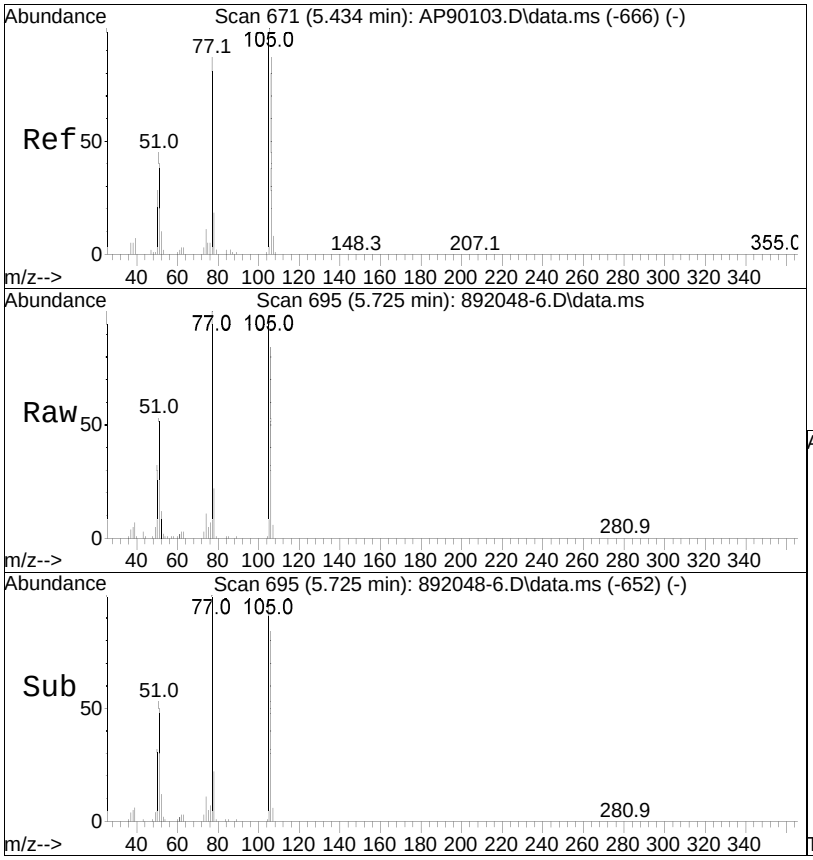


#26
1,2,4-Trichlorobenzene
Concen: 3.71 ug/ml
RT: 7.701 min Scan# 1031
Delta R.T. 0.000 min
Lab File: 892048-6.D
Acq: 5 Mar 2024 7:23 pm

Tgt Ion:180 Resp: 48308

Ion	Ratio	Lower	Upper
180	100		
182	92.0	76.0	114.0
145	28.3	25.7	38.5

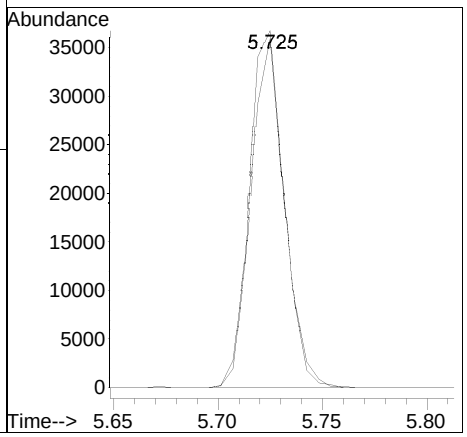


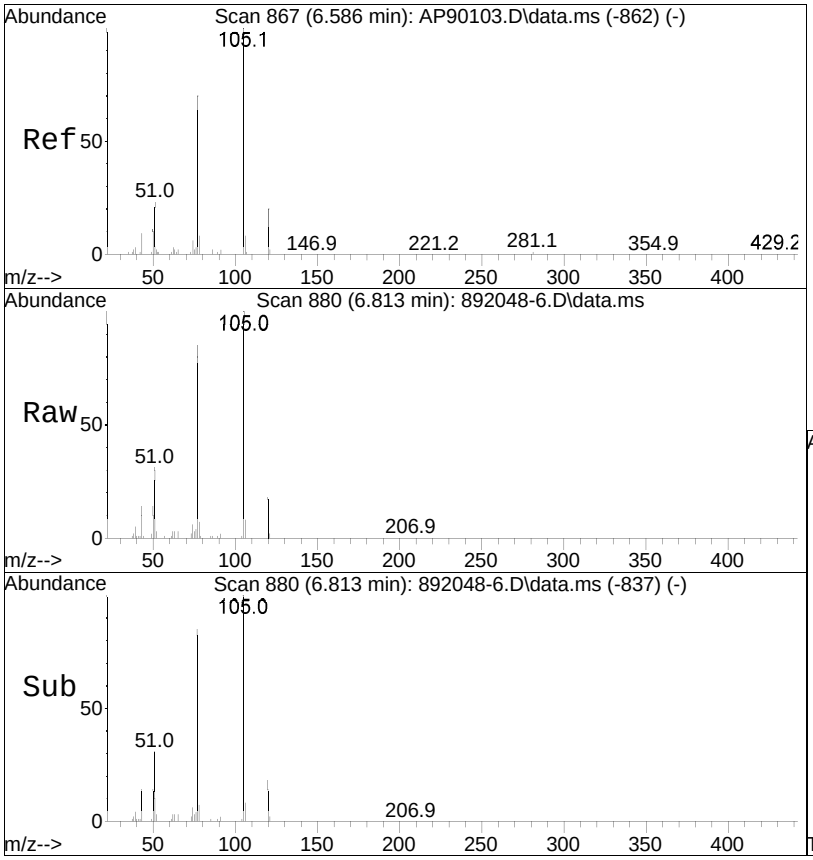


#28
Benzaldehyde
Concen: 4.10 ug/ml
RT: 5.725 min Scan# 695
Delta R.T. 0.000 min
Lab File: 892048-6.D
Acq: 5 Mar 2024 7:23 pm

Tgt Ion:105 Resp: 40189

Ion	Ratio	Lower	Upper
105	100		
77	105.5	82.2	123.4

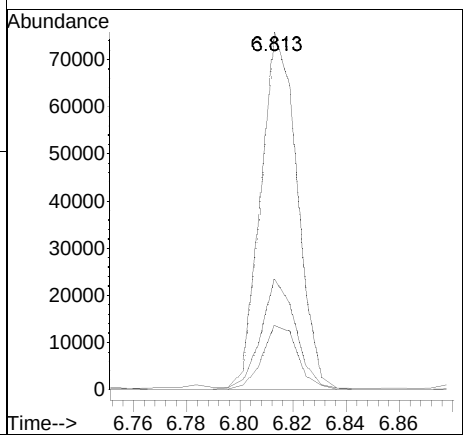


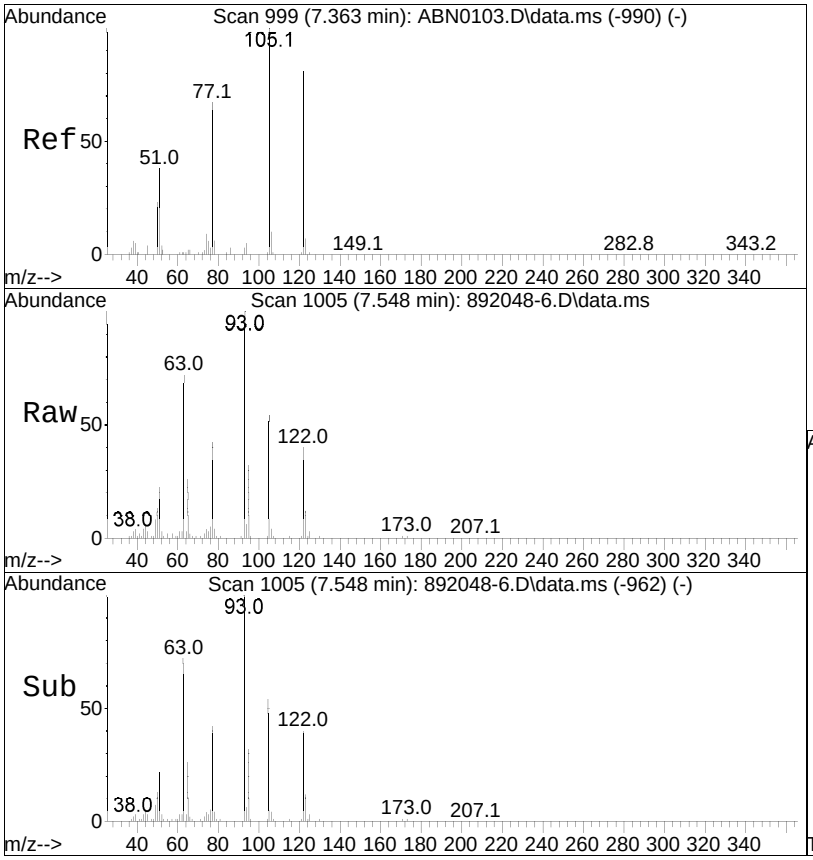


#29
Acetophenone
Concen: 3.39 ug/ml
RT: 6.813 min Scan# 880
Delta R.T. 0.000 min
Lab File: 892048-6.D
Acq: 5 Mar 2024 7:23 pm

Tgt Ion:105 Resp: 71350

Ion	Ratio	Lower	Upper
105	100		
120	17.5	20.5	30.7#
51	30.3	34.9	52.3#

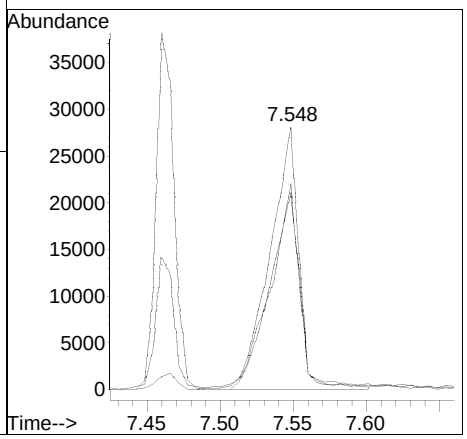


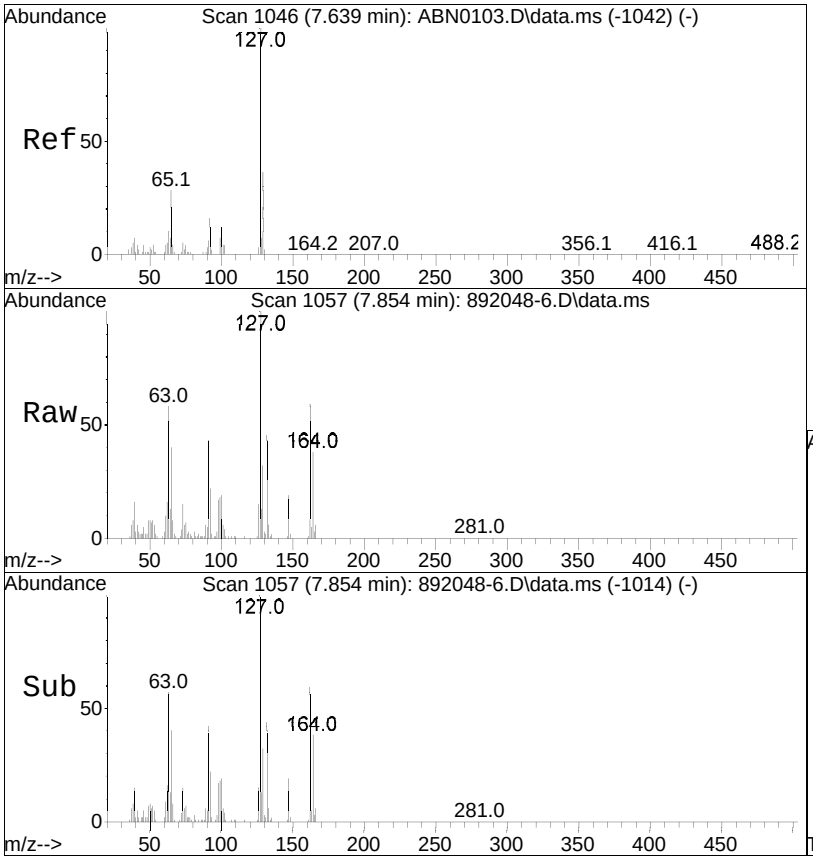


#36
Benzoic Acid
Concen: 5.20 ug/ml
RT: 7.548 min Scan# 1005
Delta R.T. 0.000 min
Lab File: 892048-6.D
Acq: 5 Mar 2024 7:23 pm

Tgt Ion:105 Resp: 39315

Ion	Ratio	Lower	Upper
105	100		
122	75.0	59.9	89.9
77	77.0	60.1	90.1

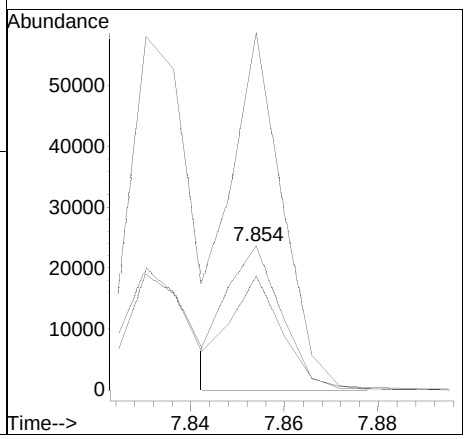


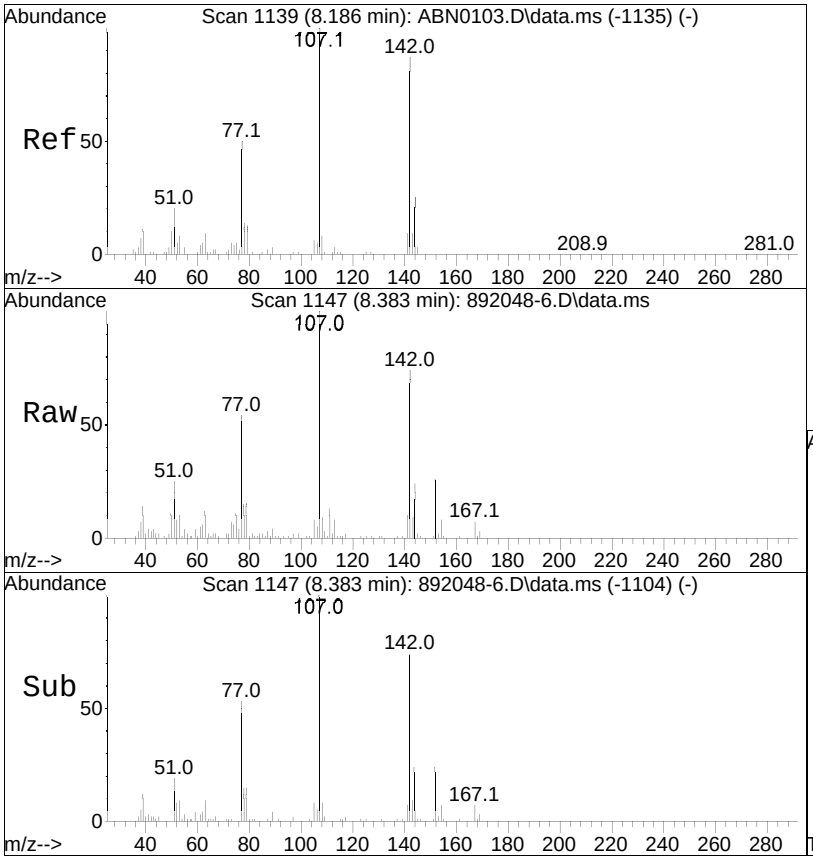


#37
4-Chloroaniline
Concen: 3.68 ug/ml M3
RT: 7.854 min Scan# 1057
Delta R.T. 0.000 min
Lab File: 892048-6.D
Acq: 5 Mar 2024 7:23 pm

Tgt Ion: 65 Resp: 19353

Ion	Ratio	Lower	Upper
65	100		
127	264.8	237.6	356.4
129	90.7	76.3	114.5

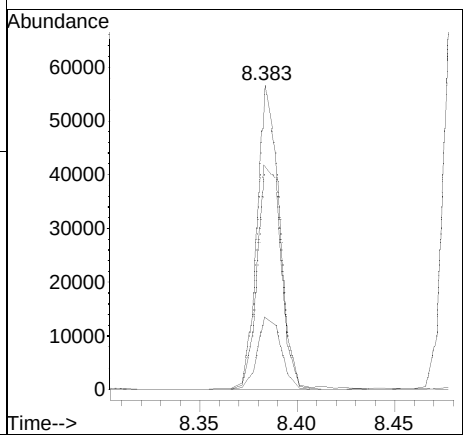


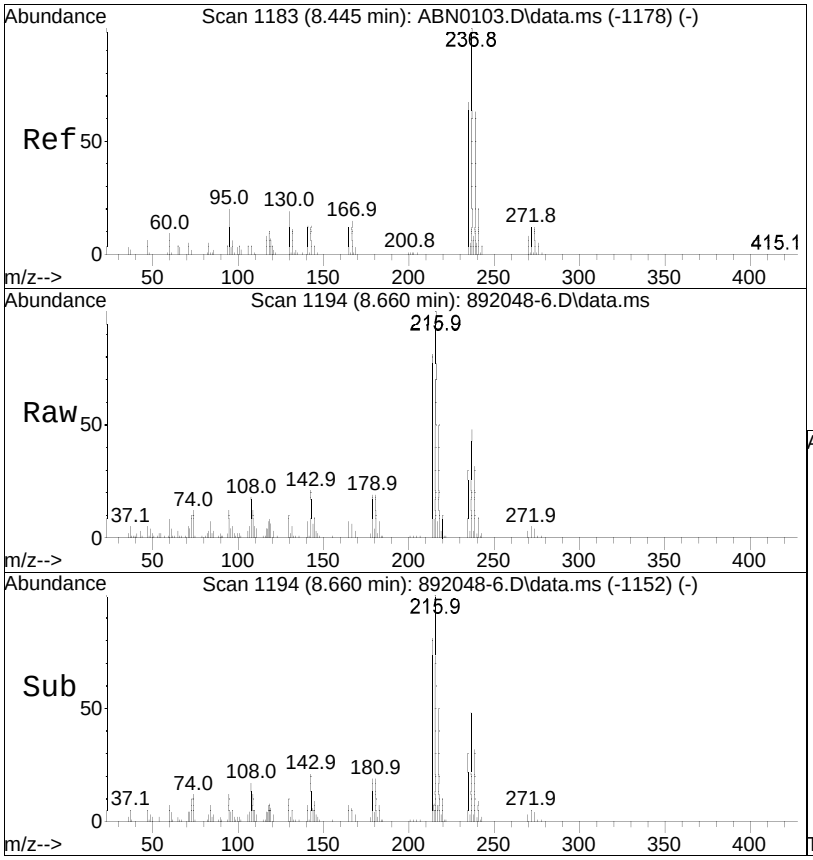


#39
p-Chloro-m-cresol
Concen: 3.92 ug/ml
RT: 8.383 min Scan# 1147
Delta R.T. 0.000 min
Lab File: 892048-6.D
Acq: 5 Mar 2024 7:23 pm

Tgt Ion:107 Resp: 45579

Ion	Ratio	Lower	Upper
107	100		
144	25.0	20.9	31.3
142	78.3	66.1	99.1

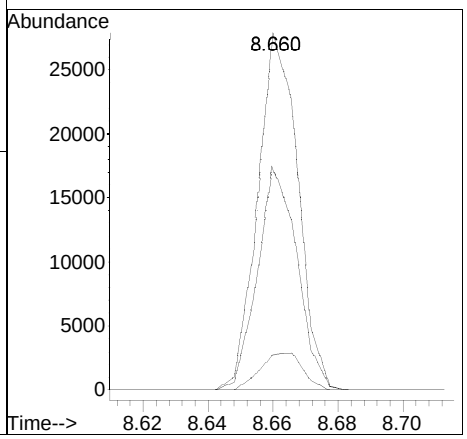


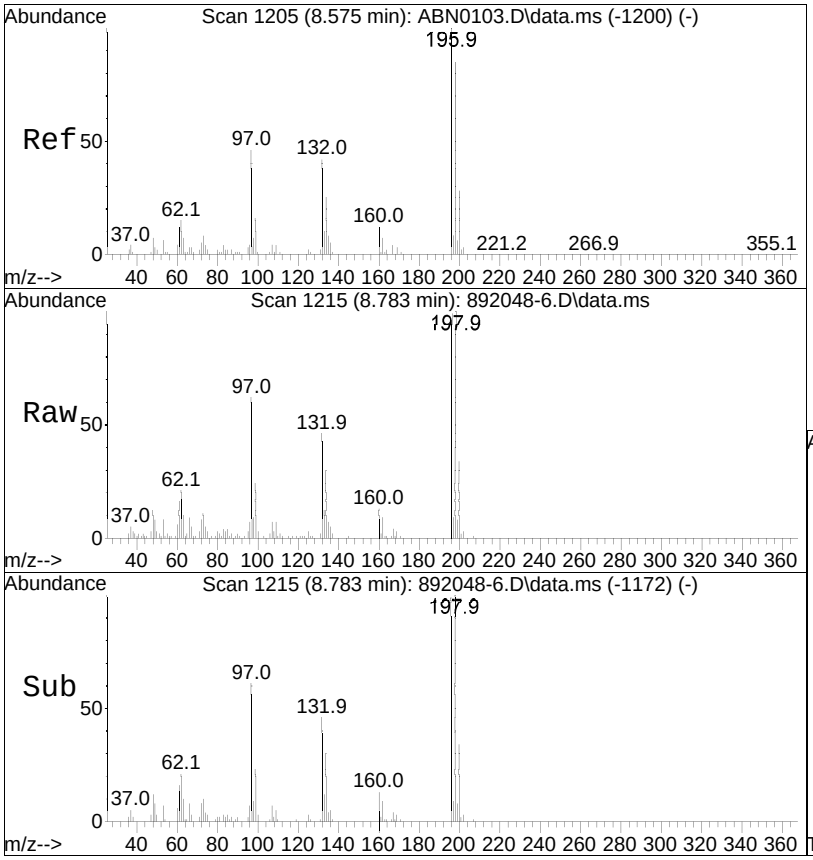


#42
Hexachlorocyclopentadiene
Concen: 2.72 ug/ml
RT: 8.660 min Scan# 1194
Delta R.T. -0.006 min
Lab File: 892048-6.D
Acq: 5 Mar 2024 7:23 pm

Tgt Ion:237 Resp: 23807

Ion	Ratio	Lower	Upper
237	100		
235	61.9	49.7	74.5
272	11.1	9.8	14.6

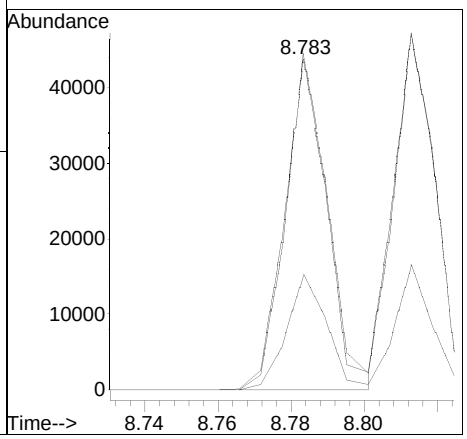


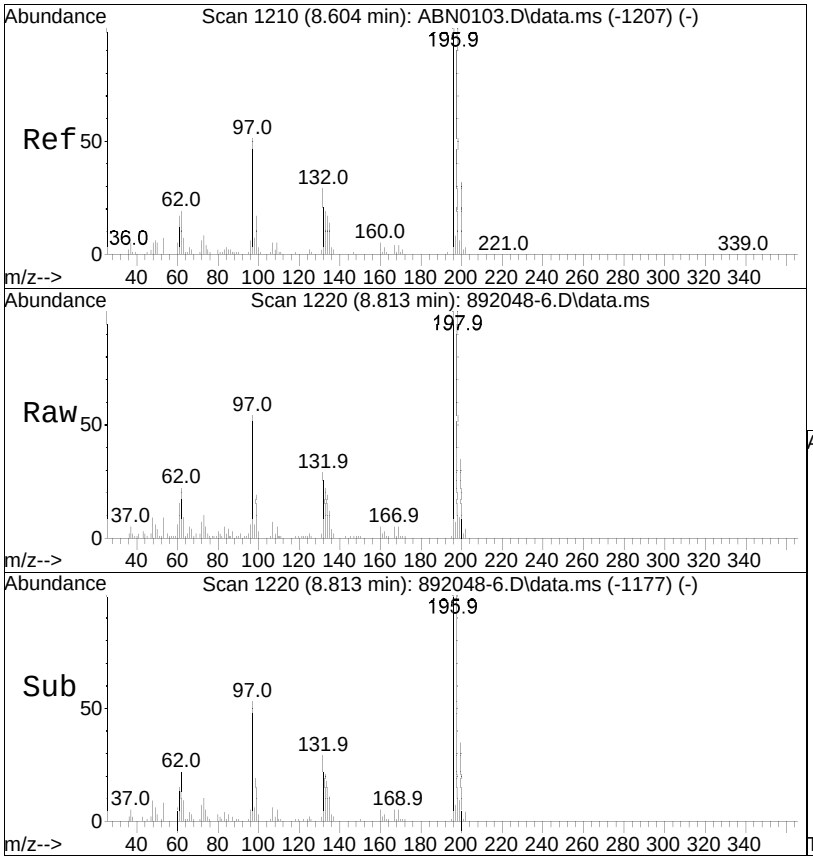


#43
2,4,6-Trichlorophenol
Concen: 4.22 ug/ml
RT: 8.783 min Scan# 1215
Delta R.T. 0.000 min
Lab File: 892048-6.D
Acq: 5 Mar 2024 7:23 pm

Tgt Ion:196 Resp: 35071

Ion	Ratio	Lower	Upper
196	100		
198	100.8	77.5	116.3
200	33.6	23.8	35.6

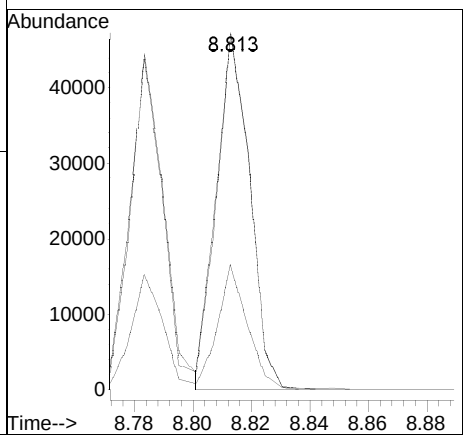


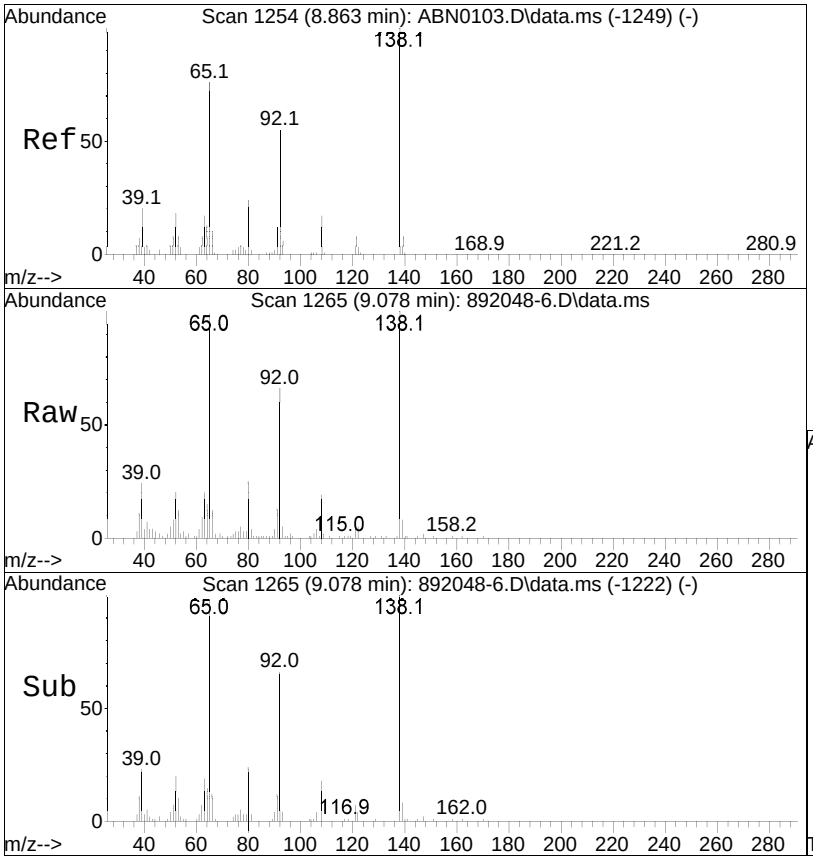


#44
2,4,5-Trichlorophenol
Concen: 4.20 ug/ml
RT: 8.813 min Scan# 1220
Delta R.T. 0.000 min
Lab File: 892048-6.D
Acq: 5 Mar 2024 7:23 pm

Tgt Ion:196 Resp: 37540

Ion	Ratio	Lower	Upper
196	100		
200	31.0	25.4	38.0
198	98.1	78.0	117.0

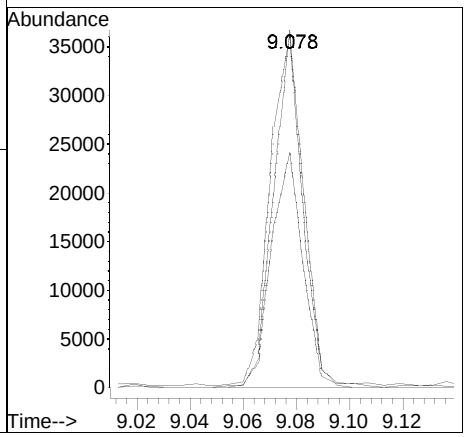


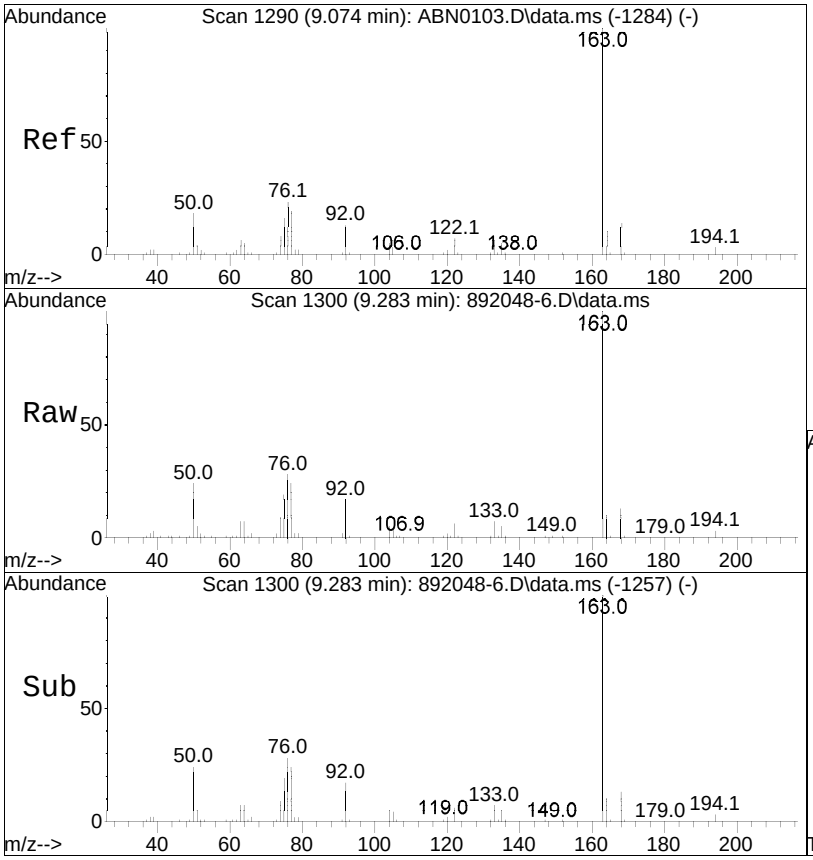


#47
2-Nitroaniline
Concen: 3.95 ug/ml
RT: 9.078 min Scan# 1265
Delta R.T. 0.000 min
Lab File: 892048-6.D
Acq: 5 Mar 2024 7:23 pm

Tgt Ion:138 Resp: 28387

Ion	Ratio	Lower	Upper
138	100		
92	70.3	53.5	80.3
65	107.3	86.3	129.5

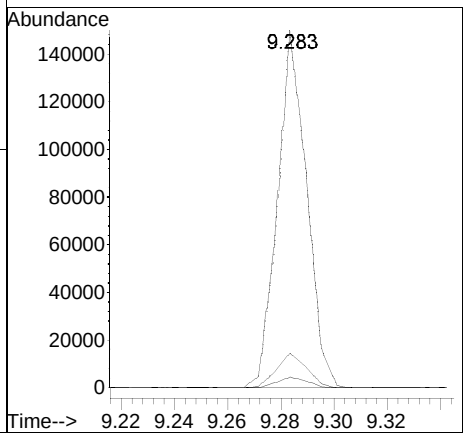


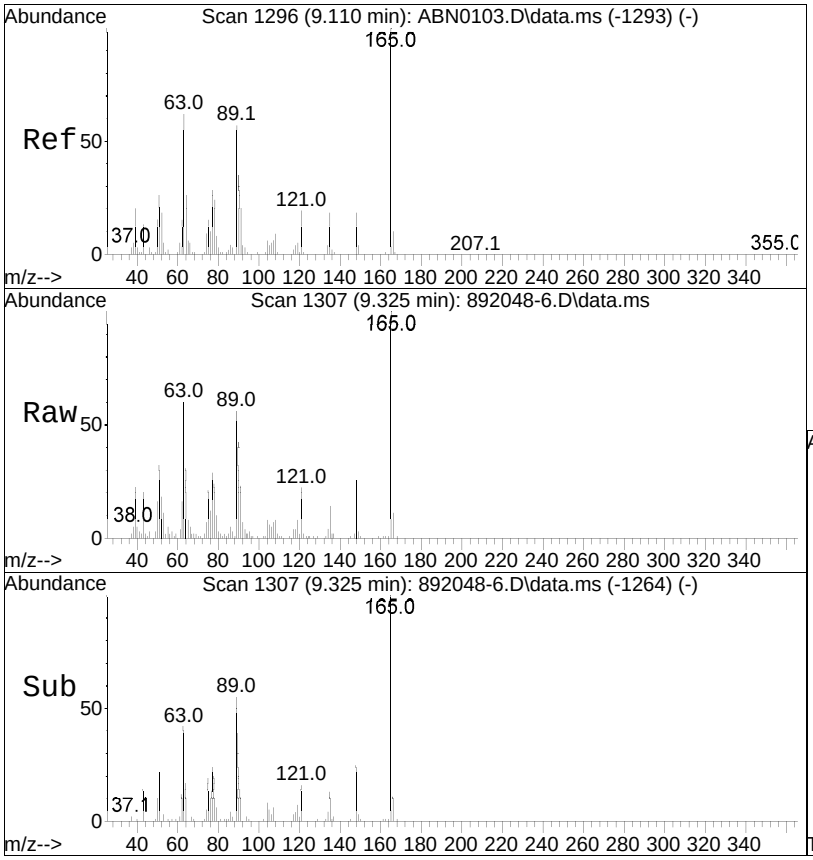


#50
Dimethyl phthalate
Concen: 3.59 ug/ml
RT: 9.283 min Scan# 1300
Delta R.T. 0.000 min
Lab File: 892048-6.D
Acq: 5 Mar 2024 7:23 pm

Tgt Ion:163 Resp: 112702

Ion	Ratio	Lower	Upper
163	100		
194	3.3	3.5	5.3#
164	10.3	7.9	11.9

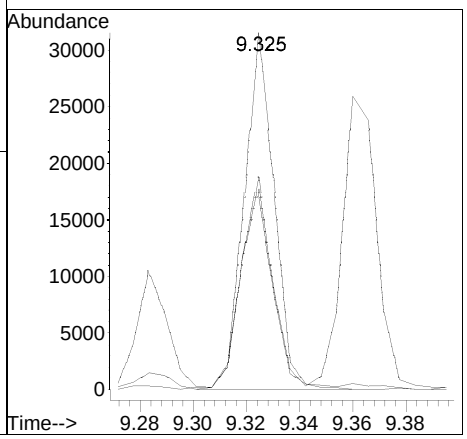


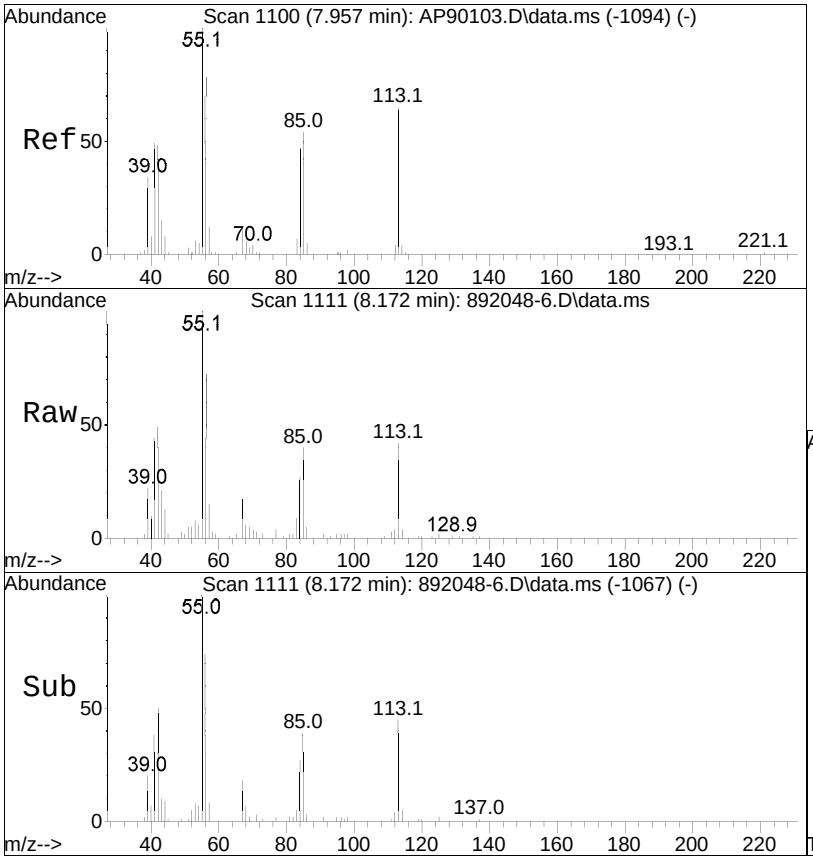


#52
2,6-Dinitrotoluene
Concen: 4.17 ug/ml
RT: 9.325 min Scan# 1307
Delta R.T. 0.000 min
Lab File: 892048-6.D
Acq: 5 Mar 2024 7:23 pm

Tgt Ion:165 Resp: 24694

Ion	Ratio	Lower	Upper
165	100		
89	60.5	54.2	81.2
63	62.0	64.2	96.2#

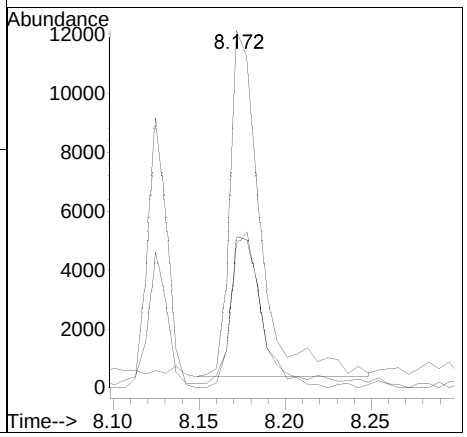


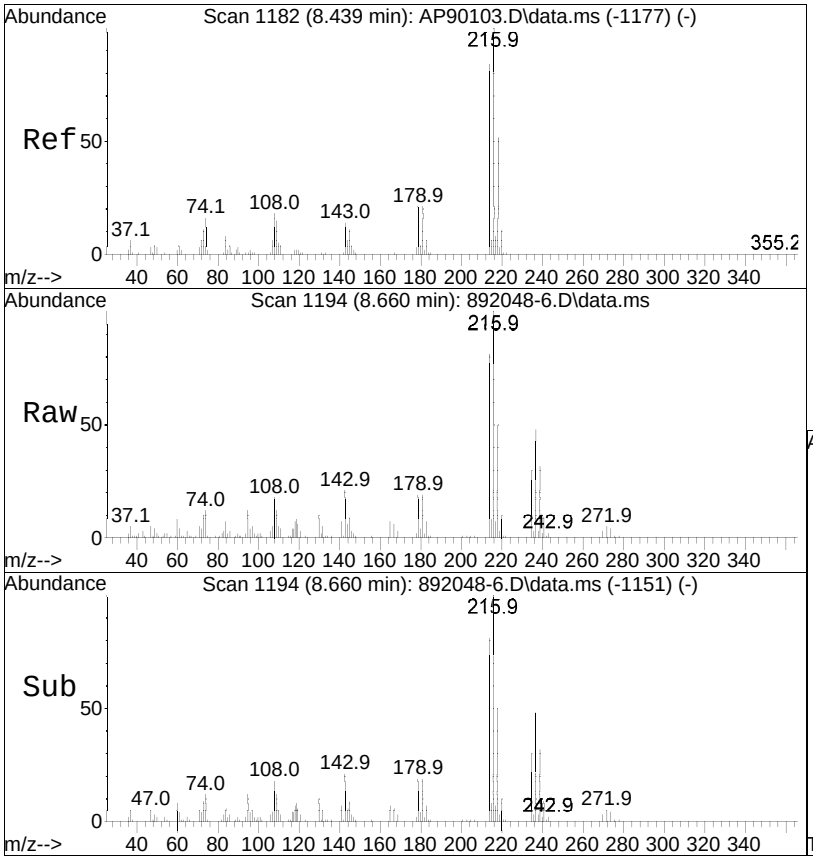


#59
Caprolactam
Concen: 2.49 ug/ml
RT: 8.172 min Scan# 1111
Delta R.T. 0.006 min
Lab File: 892048-6.D
Acq: 5 Mar 2024 7:23 pm

Tgt Ion: 55 Resp: 14542

Ion	Ratio	Lower	Upper
55	100		
85	41.8	19.8	29.6#
113	44.5	29.6	44.4#

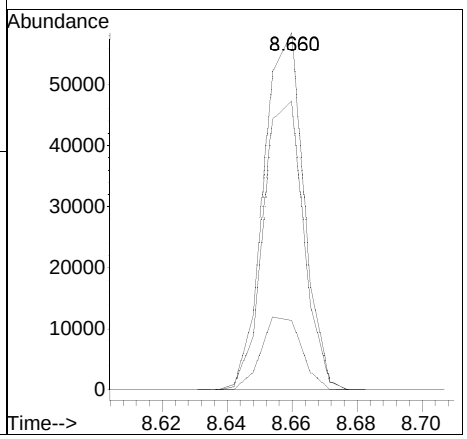


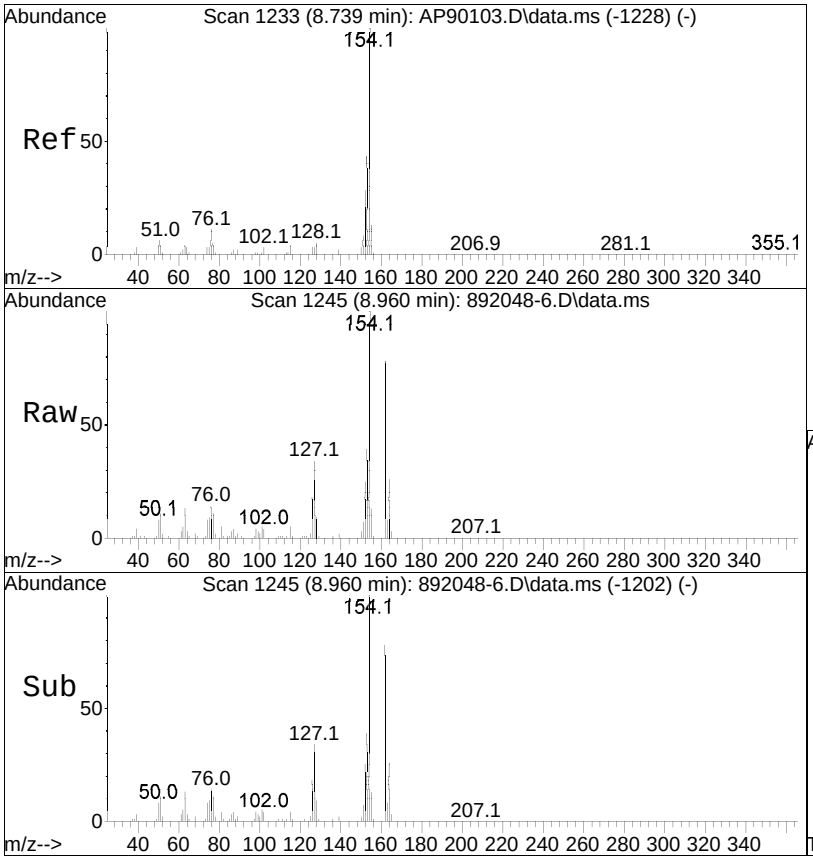


#60
1,2,4,5-Tetrachlorobenzene
Concen: 3.61 ug/ml
RT: 8.660 min Scan# 1194
Delta R.T. 0.000 min
Lab File: 892048-6.D
Acq: 5 Mar 2024 7:23 pm

Tgt Ion:216 Resp: 50067

Ion	Ratio	Lower	Upper
216	100		
214	81.8	63.7	95.5
179	20.8	19.0	28.6

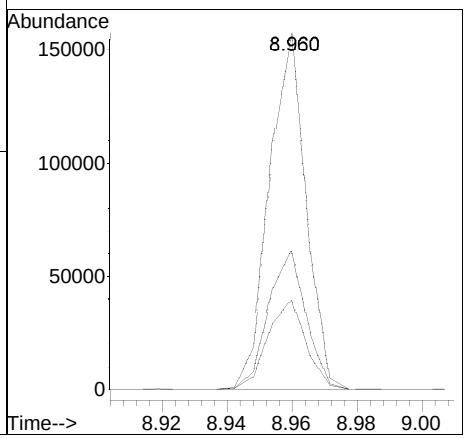


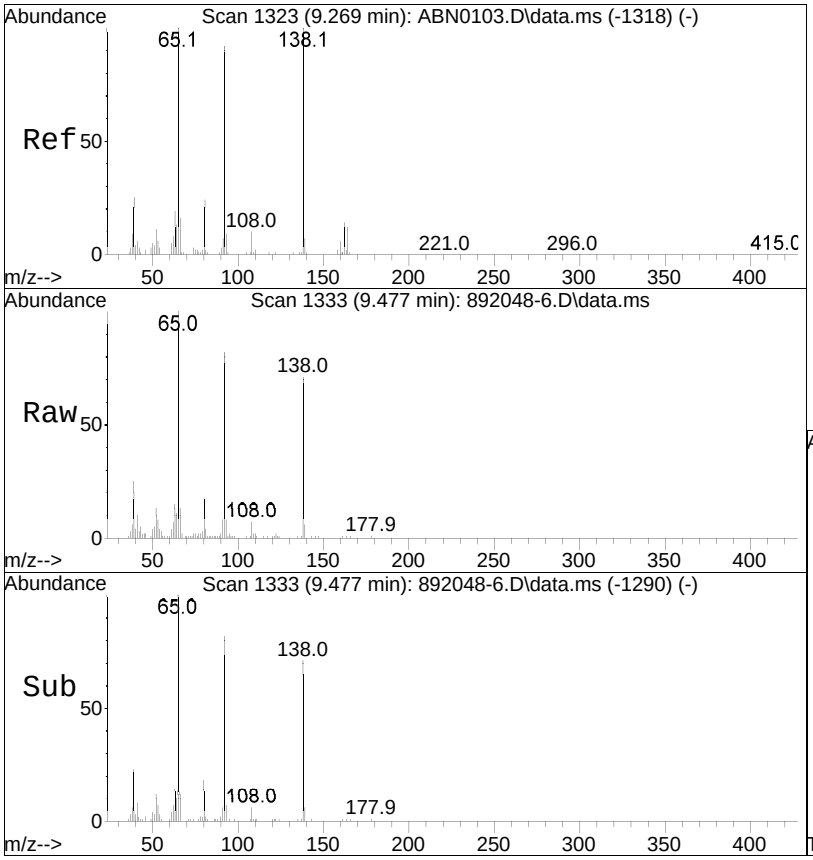


#61
Biphenyl
Concen: 3.59 ug/ml
RT: 8.960 min Scan# 1245
Delta R.T. 0.000 min
Lab File: 892048-6.D
Acq: 5 Mar 2024 7:23 pm

Tgt Ion:154 Resp: 122586

Ion	Ratio	Lower	Upper
154	100		
153	40.3	32.3	48.5
152	26.4	22.5	33.7

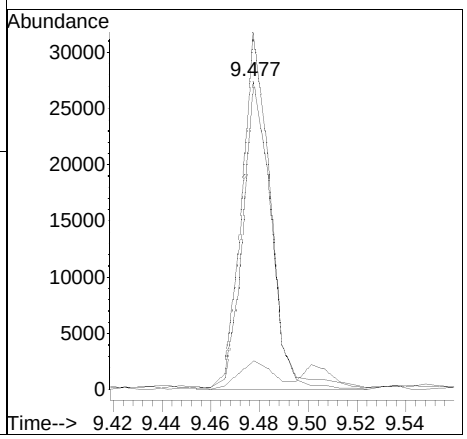


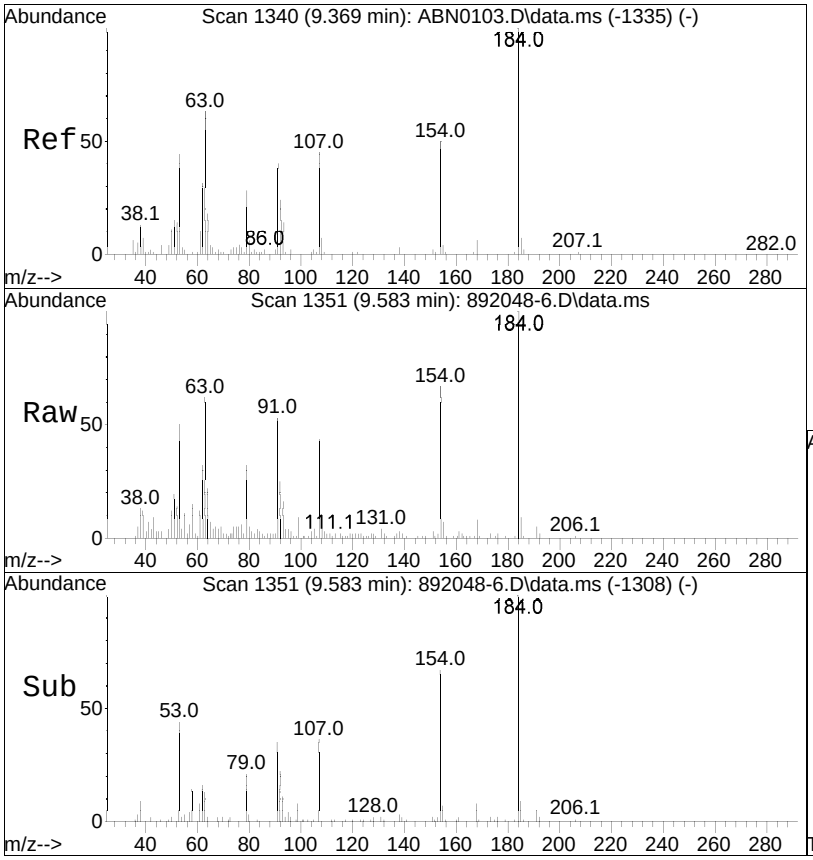


#63
3-Nitroaniline
Concen: 3.18 ug/ml
RT: 9.477 min Scan# 1333
Delta R.T. 0.000 min
Lab File: 892048-6.D
Acq: 5 Mar 2024 7:23 pm

Tgt Ion:138 Resp: 21990

Ion	Ratio	Lower	Upper
138	100		
92	119.9	93.4	140.2
108	11.1	9.5	14.3

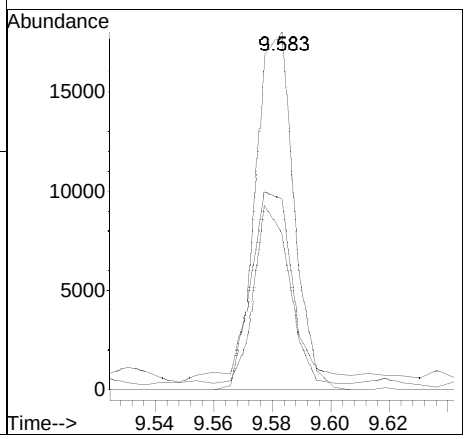


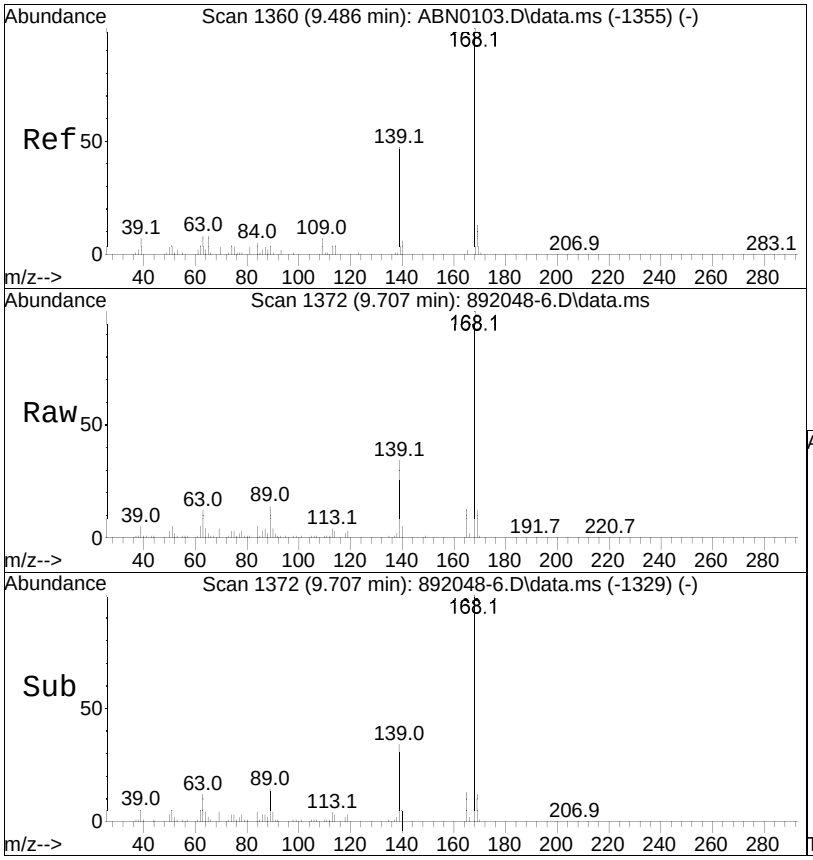


#65
2,4-Dinitrophenol
Concen: 5.28 ug/ml
RT: 9.583 min Scan# 1351
Delta R.T. 0.000 min
Lab File: 892048-6.D
Acq: 5 Mar 2024 7:23 pm

Tgt Ion:184 Resp: 16278

Ion	Ratio	Lower	Upper
184	100		
107	48.3	37.7	56.5
91	62.7	46.3	69.5

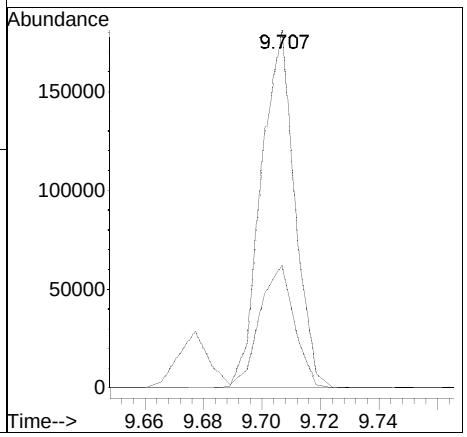


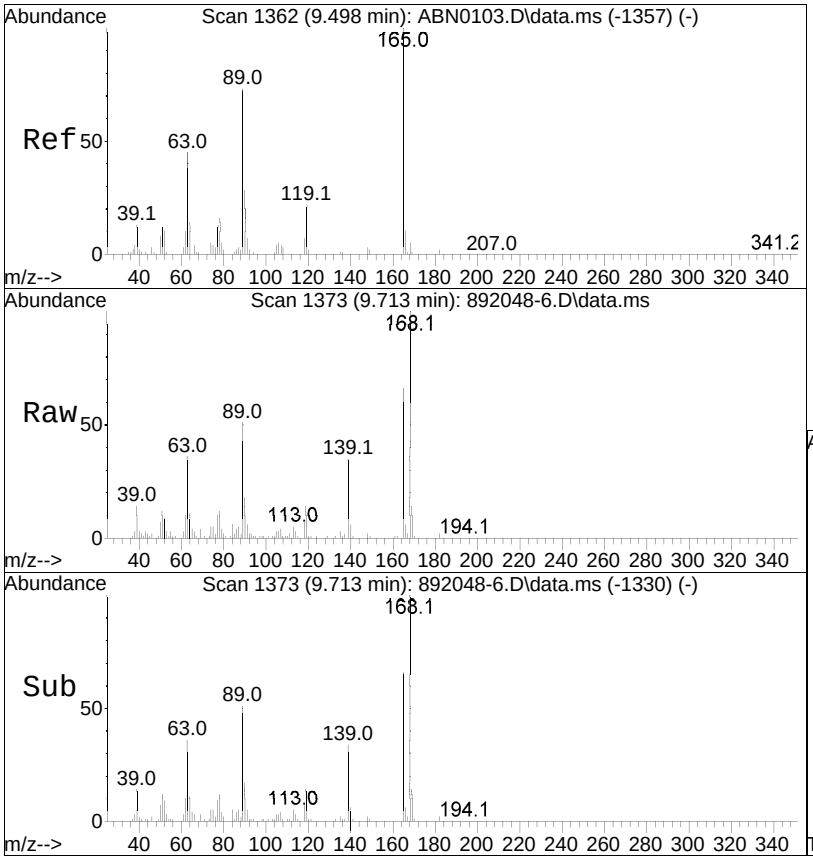


#66
Dibenzofuran
Concen: 3.49 ug/ml
RT: 9.707 min Scan# 1372
Delta R.T. 0.000 min
Lab File: 892048-6.D
Acq: 5 Mar 2024 7:23 pm

Tgt Ion:168 Resp: 142783

Ion	Ratio	Lower	Upper
168	100		
139	35.5	31.4	47.2

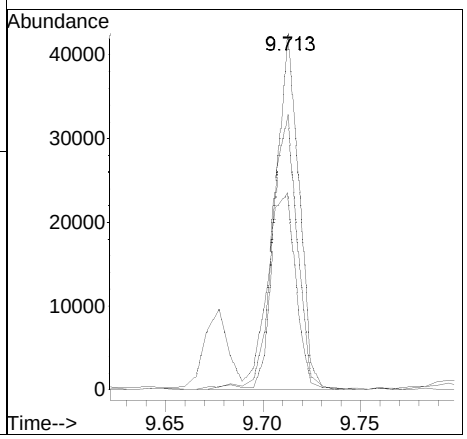


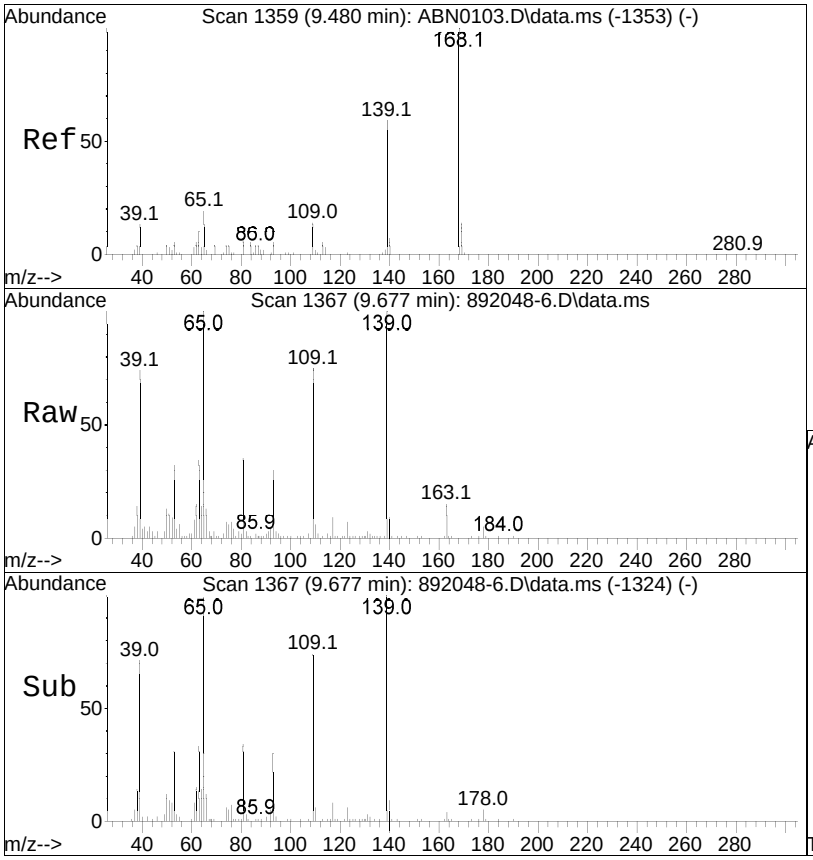


#67
2,4-Dinitrotoluene
Concen: 4.10 ug/ml
RT: 9.713 min Scan# 1373
Delta R.T. 0.000 min
Lab File: 892048-6.D
Acq: 5 Mar 2024 7:23 pm

Tgt Ion:165 Resp: 35113

Ion	Ratio	Lower	Upper
165	100		
89	84.8	72.0	108.0
63	68.0	52.7	79.1

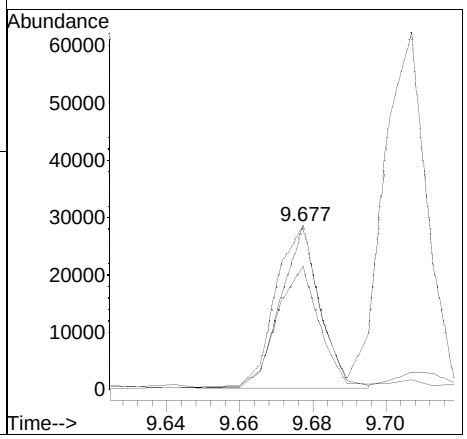


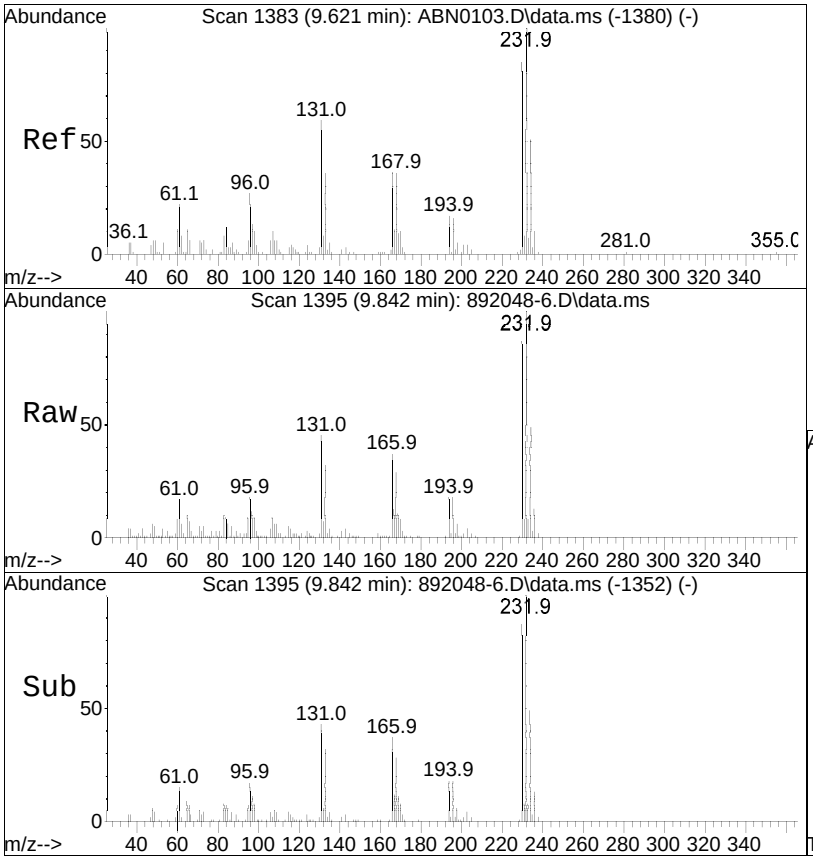


#68
4-Nitrophenol
Concen: 3.74 ug/ml
RT: 9.677 min Scan# 1367
Delta R.T. 0.000 min
Lab File: 892048-6.D
Acq: 5 Mar 2024 7:23 pm

Tgt Ion: 65 Resp: 23749

Ion	Ratio	Lower	Upper
65	100		
109	72.5	47.4	71.2#
139	90.6	76.6	115.0

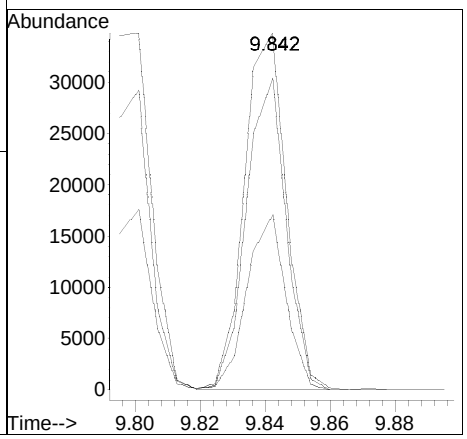


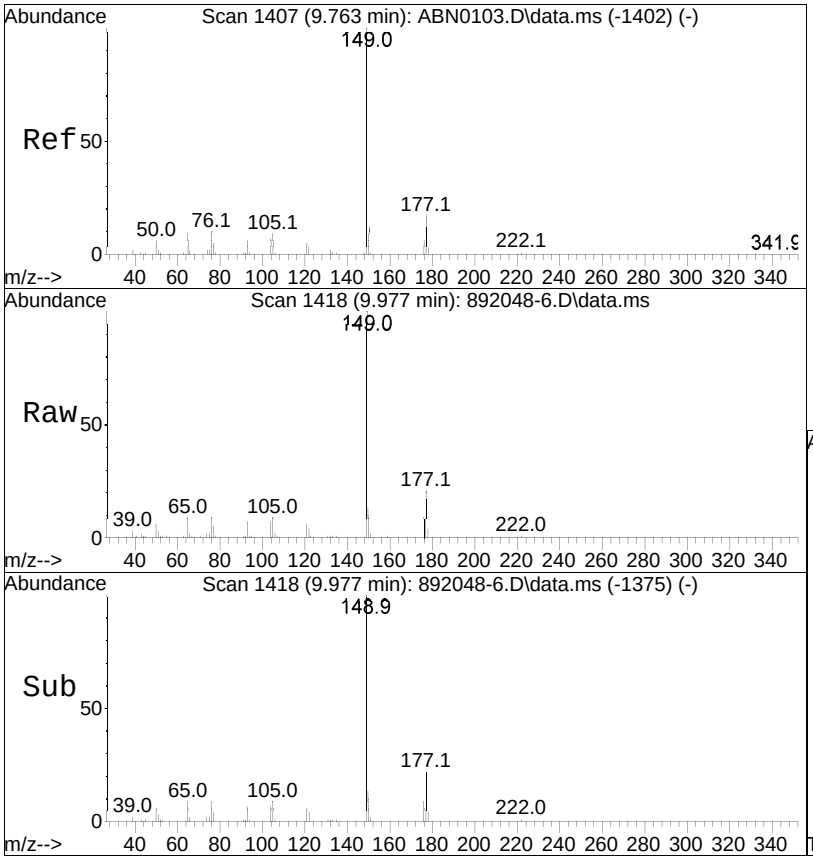


#70
2,3,4,6-Tetrachlorophenol
Concen: 3.85 ug/ml
RT: 9.842 min Scan# 1395
Delta R.T. 0.000 min
Lab File: 892048-6.D
Acq: 5 Mar 2024 7:23 pm

Tgt Ion:232 Resp: 31388

Ion	Ratio	Lower	Upper
232	100		
230	82.9	61.8	92.8
234	45.7	36.2	54.2

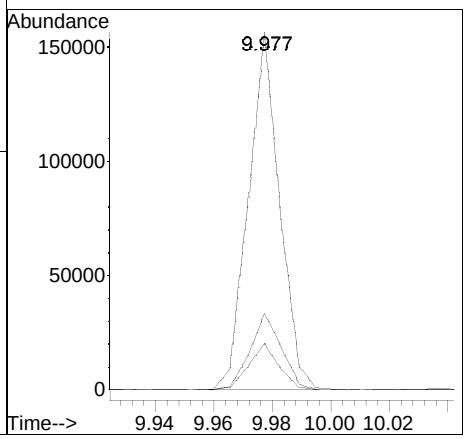


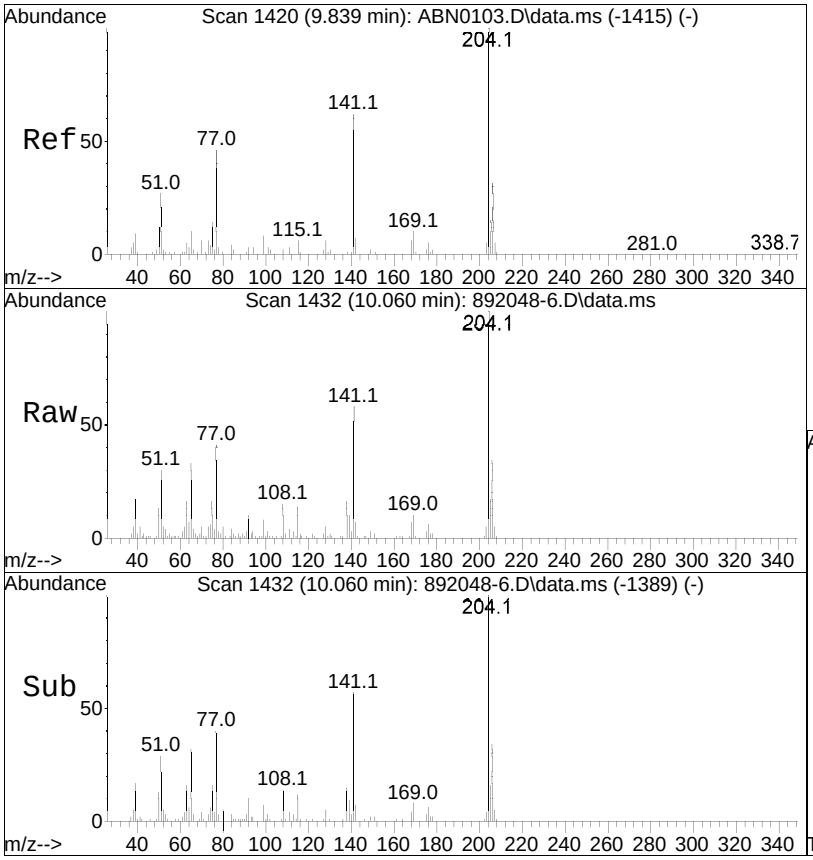


#71
Diethyl phthalate
Concen: 3.34 ug/ml
RT: 9.977 min Scan# 1418
Delta R.T. 0.000 min
Lab File: 892048-6.D
Acq: 5 Mar 2024 7:23 pm

Tgt Ion:149 Resp: 114306

Ion	Ratio	Lower	Upper
149	100		
177	21.8	16.1	24.1
150	13.0	9.4	14.2

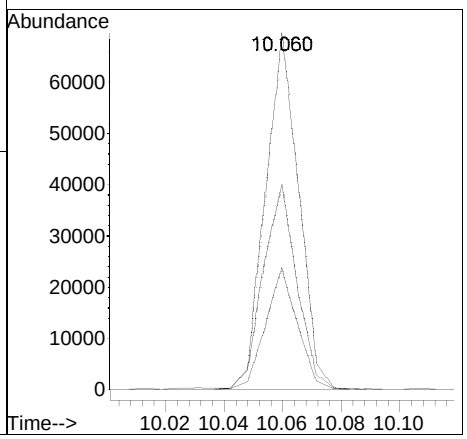


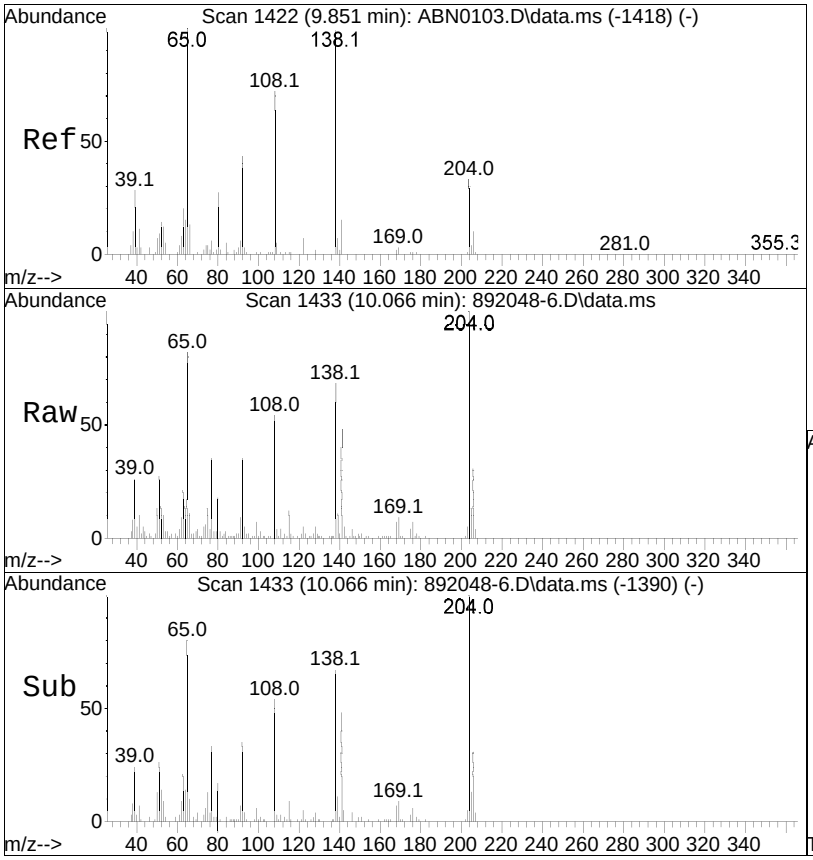


#73
4-Chlorophenyl phenyl ether
Concen: 3.53 ug/ml
RT: 10.060 min Scan# 1432
Delta R.T. 0.000 min
Lab File: 892048-6.D
Acq: 5 Mar 2024 7:23 pm

Tgt Ion:204 Resp: 54399

Ion	Ratio	Lower	Upper
204	100		
206	33.1	25.8	38.6
141	59.2	53.6	80.4

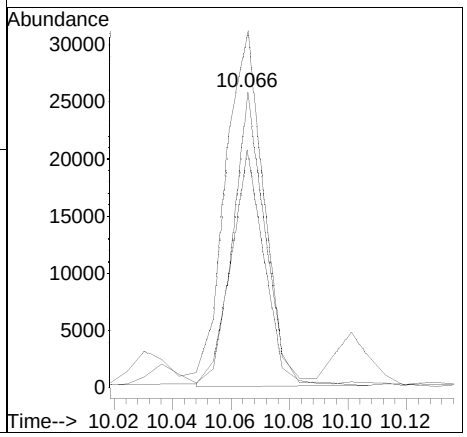


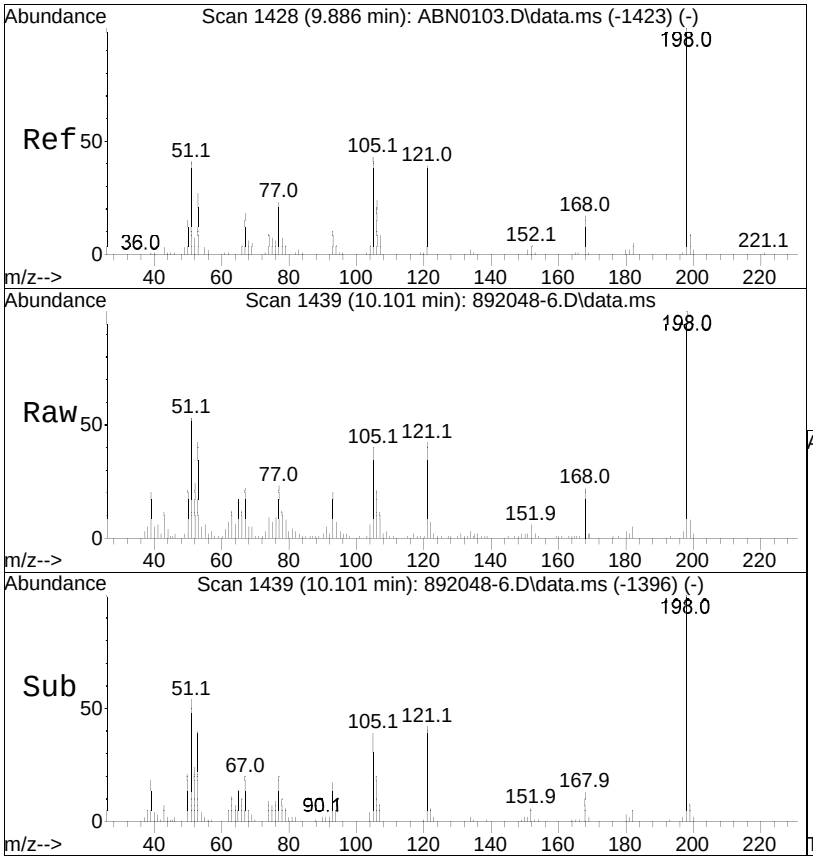


#74
4-Nitroaniline
Concen: 2.80 ug/ml
RT: 10.066 min Scan# 1433
Delta R.T. 0.000 min
Lab File: 892048-6.D
Acq: 5 Mar 2024 7:23 pm

Tgt Ion:138 Resp: 19544

Ion	Ratio	Lower	Upper
138	100		
108	83.0	52.1	78.1#
65	145.2	115.0	172.6

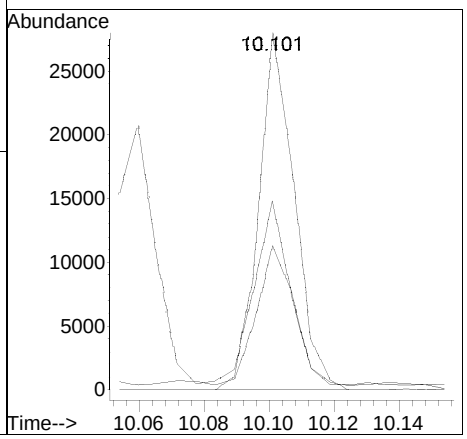


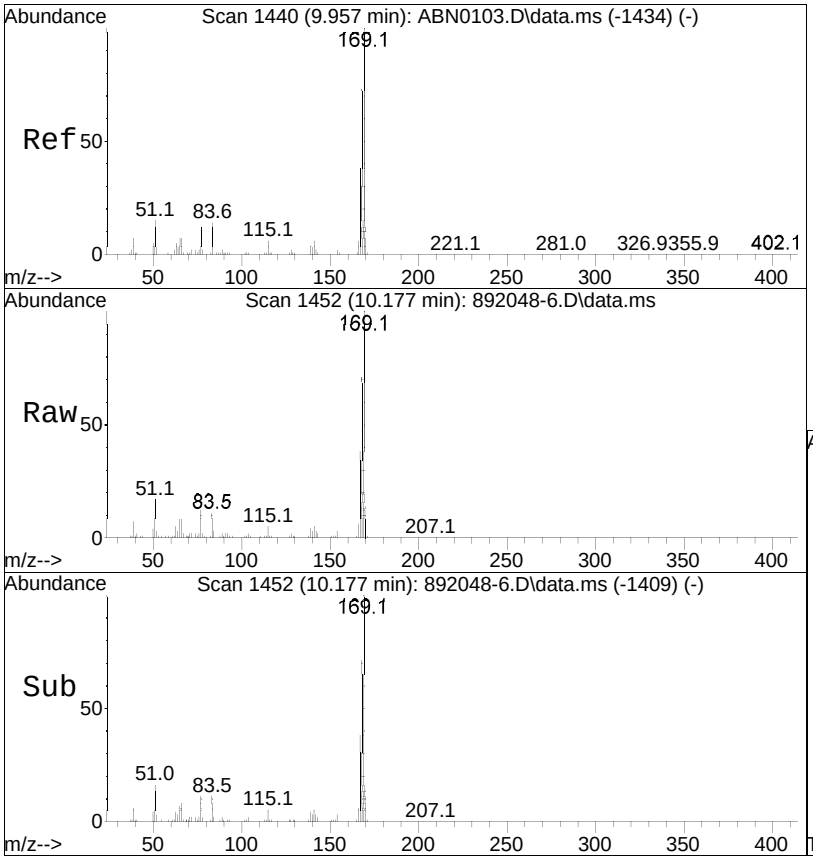


#75
4,6-Dinitro-o-cresol
Concen: 5.28 ug/ml
RT: 10.101 min Scan# 1439
Delta R.T. 0.000 min
Lab File: 892048-6.D
Acq: 5 Mar 2024 7:23 pm

Tgt Ion:198 Resp: 21378

Ion	Ratio	Lower	Upper
198	100		
51	54.6	76.0	114.0#
105	42.2	45.6	68.4#

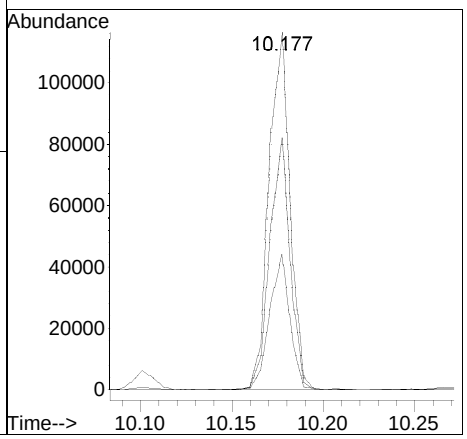


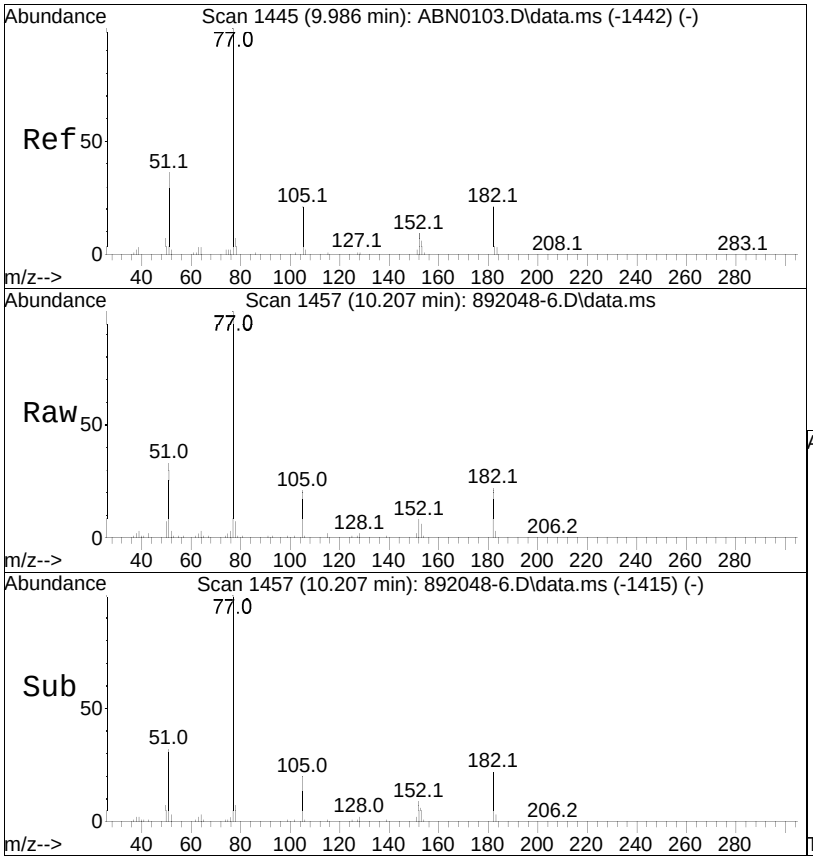


#76
NDPA/DPA
Concen: 3.42 ug/ml
RT: 10.177 min Scan# 1452
Delta R.T. 0.000 min
Lab File: 892048-6.D
Acq: 5 Mar 2024 7:23 pm

Tgt Ion:169 Resp: 92906

Ion	Ratio	Lower	Upper
169	100		
168	68.1	54.0	81.0
167	37.3	28.6	42.8

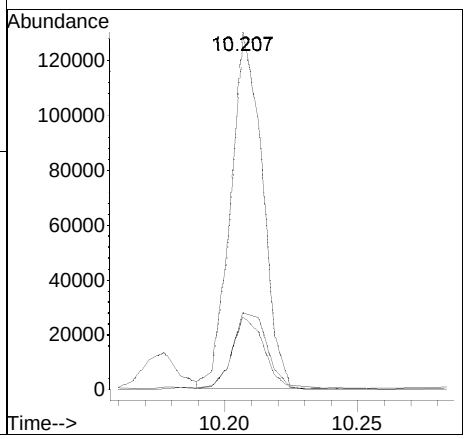


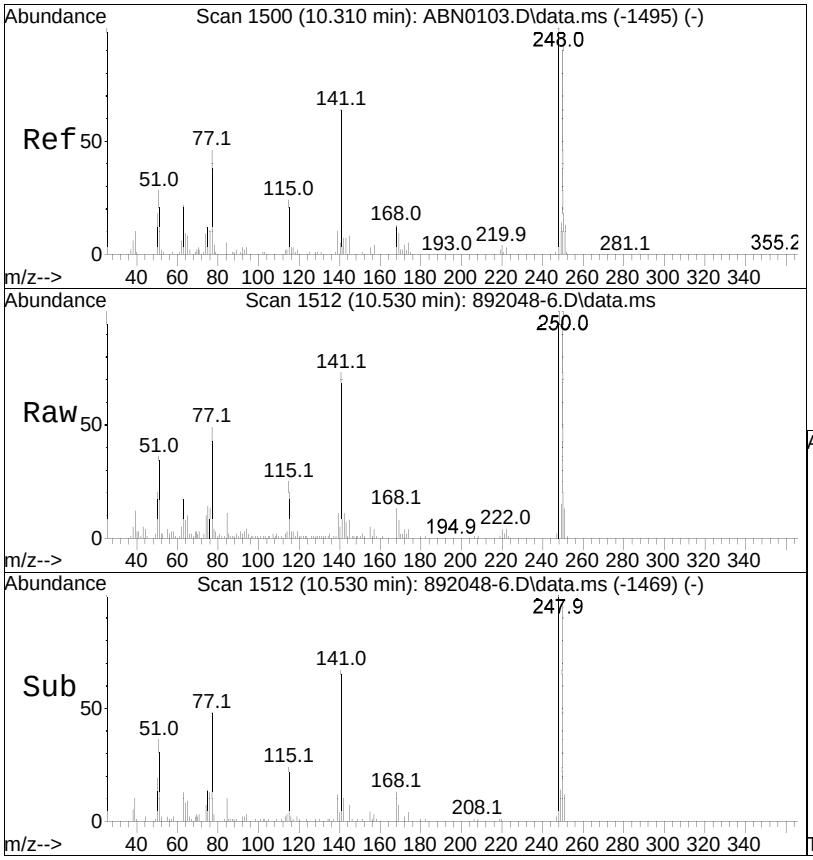


#77
Azobenzene
Concen: 3.35 ug/ml
RT: 10.207 min Scan# 1457
Delta R.T. -0.006 min
Lab File: 892048-6.D
Acq: 5 Mar 2024 7:23 pm

Tgt Ion: 77 Resp: 106949

Ion	Ratio	Lower	Upper
77	100		
182	24.6	17.4	26.2
105	22.6	15.4	23.2

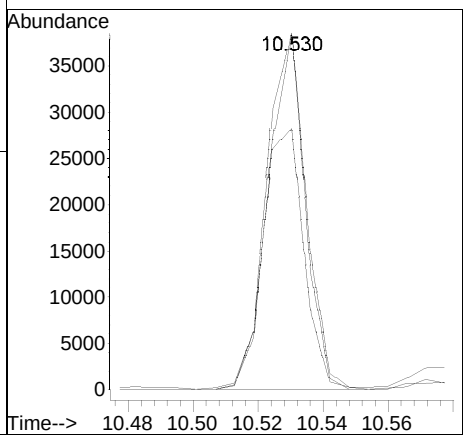


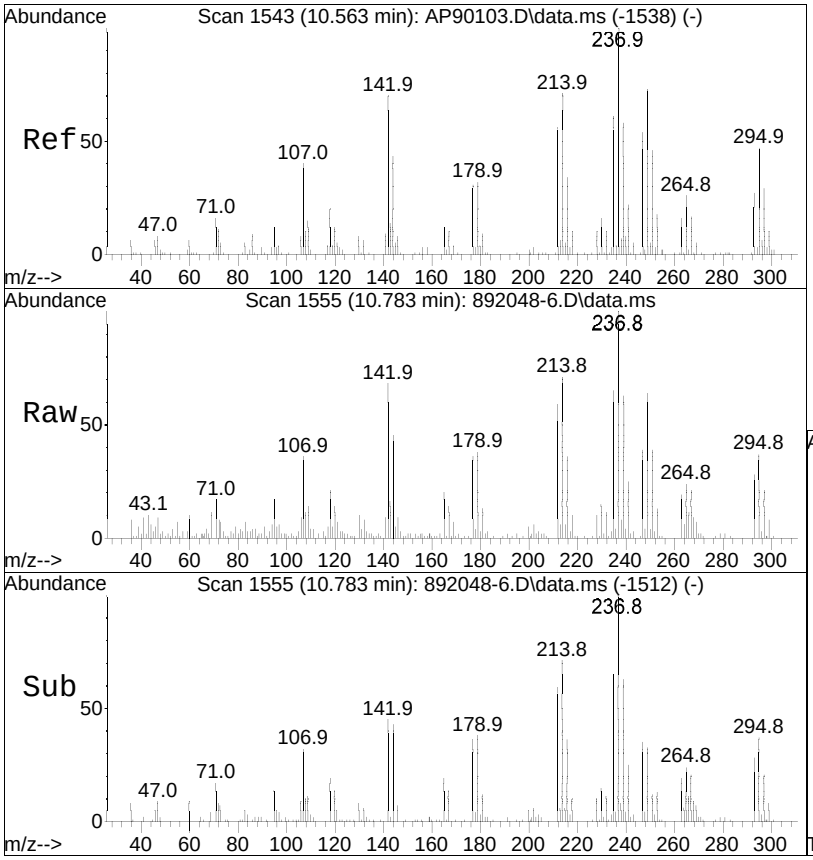


#79
4-Bromophenyl phenyl ether
Concen: 3.62 ug/ml
RT: 10.530 min Scan# 1512
Delta R.T. 0.000 min
Lab File: 892048-6.D
Acq: 5 Mar 2024 7:23 pm

Tgt Ion:248 Resp: 32510

Ion	Ratio	Lower	Upper
248	100		
141	76.6	76.6	114.8
250	92.3	77.3	115.9

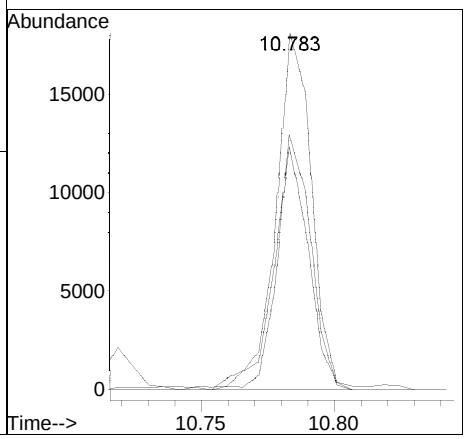


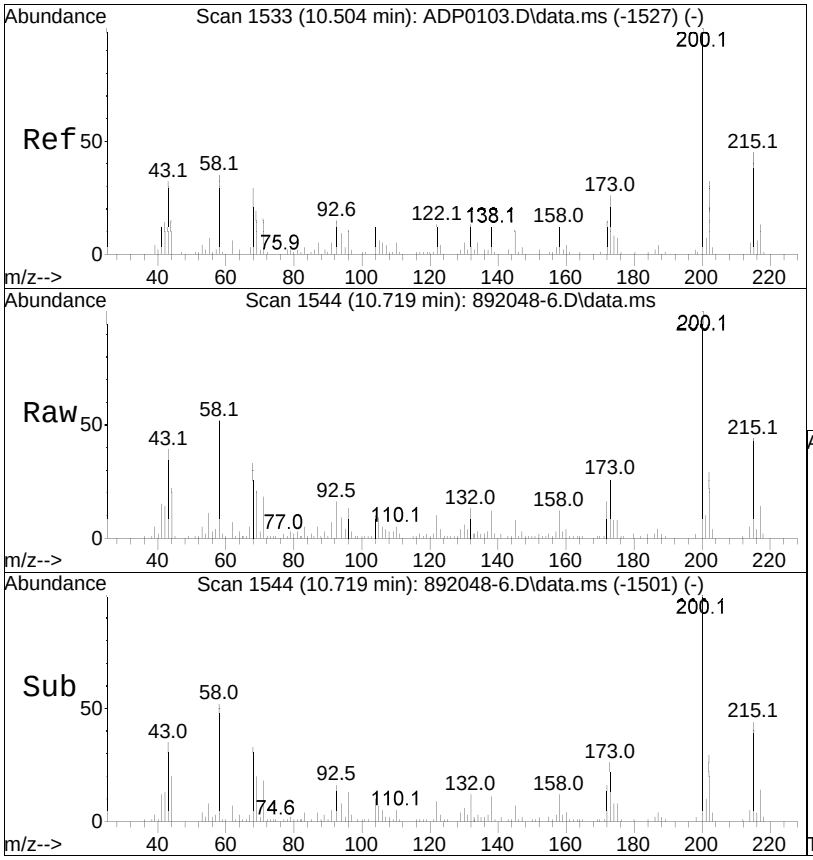


#84
Pentachloronitrobenzene
Concen: 4.17 ug/ml
RT: 10.783 min Scan# 1555
Delta R.T. 0.000 min
Lab File: 892048-6.D
Acq: 5 Mar 2024 7:23 pm

Tgt Ion:237 Resp: 16747

Ion	Ratio	Lower	Upper
237	100		
142	65.6	77.0	115.4#
214	68.1	58.2	87.4

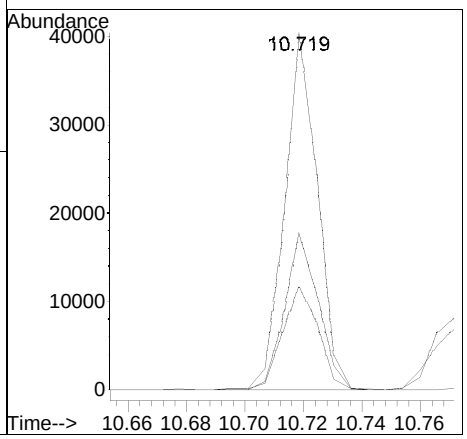


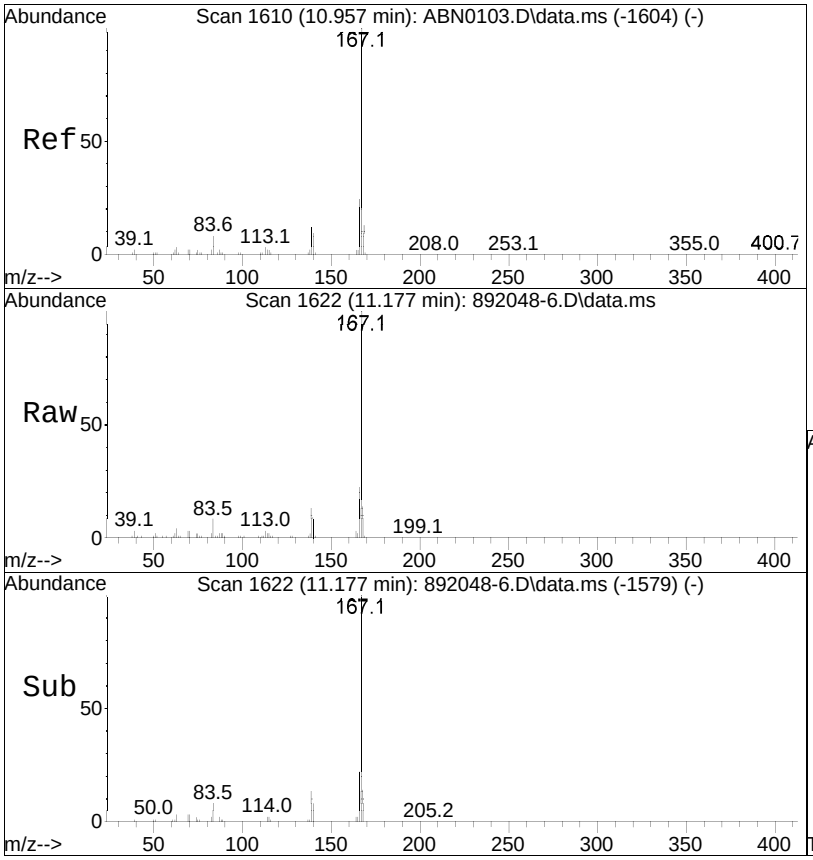


#86
Atrazine
Concen: 3.73 ug/ml
RT: 10.719 min Scan# 1544
Delta R.T. 0.000 min
Lab File: 892048-6.D
Acq: 5 Mar 2024 7:23 pm

Tgt Ion:200 Resp: 31082

Ion	Ratio	Lower	Upper
200	100		
202	32.0	25.8	38.6
215	45.4	40.2	60.4

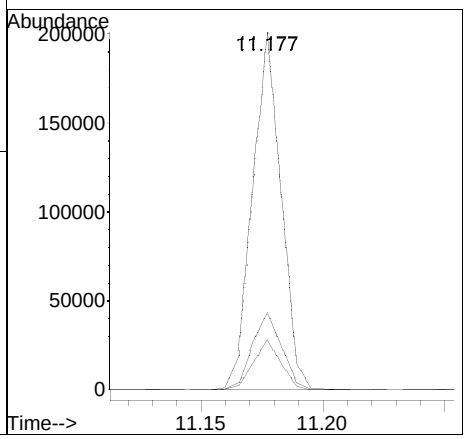


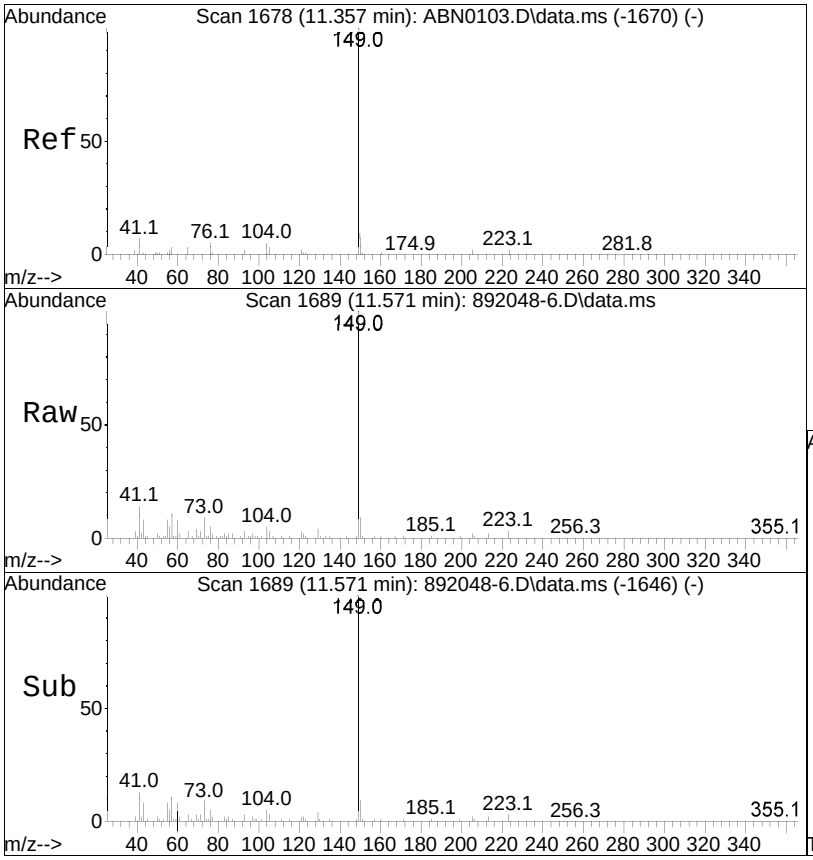


#90
Carbazole
Concen: 3.46 ug/ml
RT: 11.177 min Scan# 1622
Delta R.T. 0.000 min
Lab File: 892048-6.D
Acq: 5 Mar 2024 7:23 pm

Tgt Ion:167 Resp: 162030

Ion	Ratio	Lower	Upper
167	100		
168	13.7	10.6	15.8
166	22.4	17.4	26.0

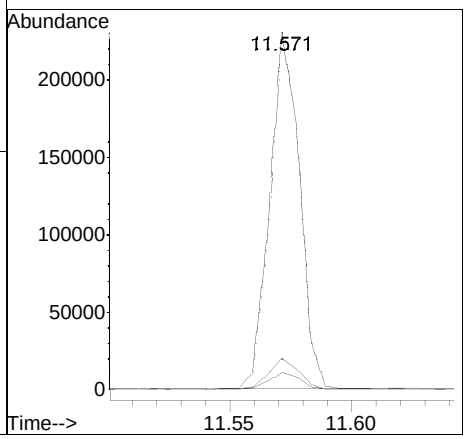


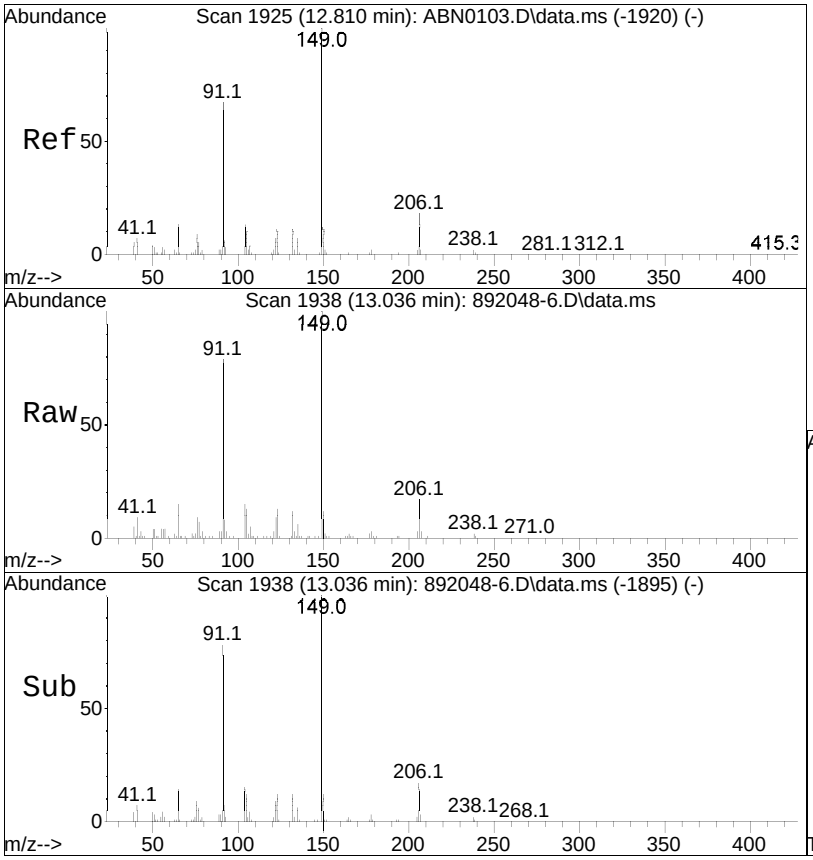


#91
Di-n-butylphthalate
Concen: 3.20 ug/ml
RT: 11.571 min Scan# 1689
Delta R.T. 0.000 min
Lab File: 892048-6.D
Acq: 5 Mar 2024 7:23 pm

Tgt Ion:149 Resp: 192010

Ion	Ratio	Lower	Upper
149	100		
150	9.1	7.0	10.6
104	5.4	4.5	6.7

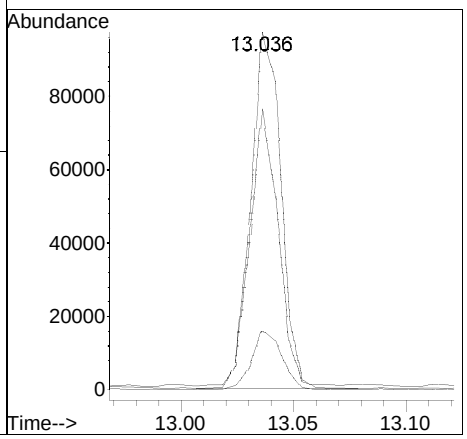


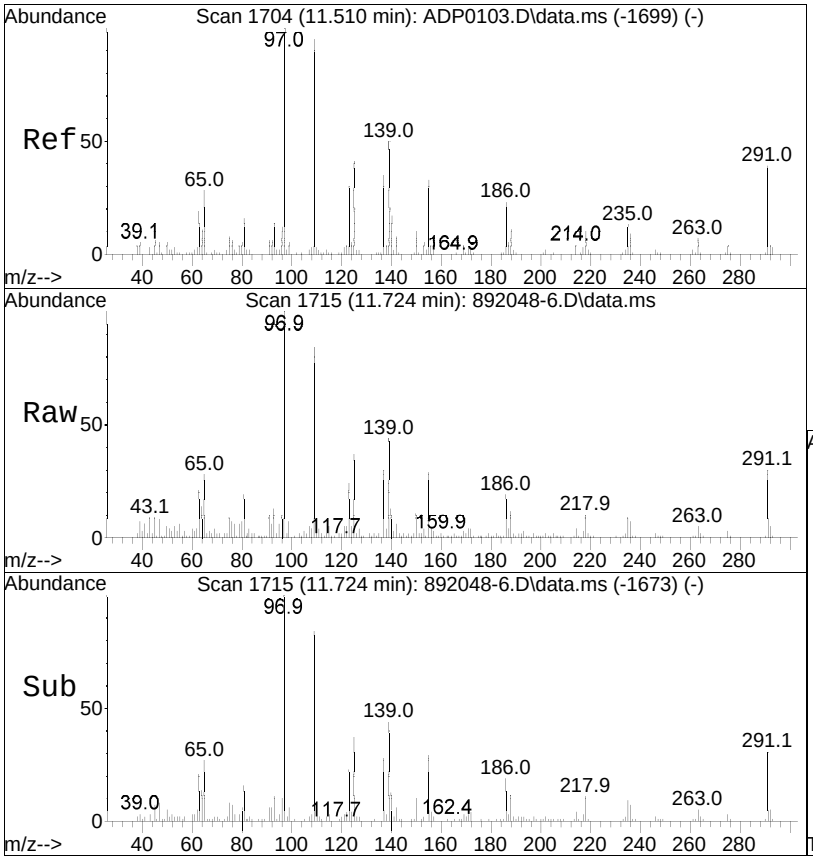


#96
Butyl benzyl phthalate
Concen: 3.49 ug/ml
RT: 13.036 min Scan# 1938
Delta R.T. 0.000 min
Lab File: 892048-6.D
Acq: 5 Mar 2024 7:23 pm

Tgt Ion:149 Resp: 89449

Ion	Ratio	Lower	Upper
149	100		
91	72.9	63.3	94.9
206	16.9	13.9	20.9

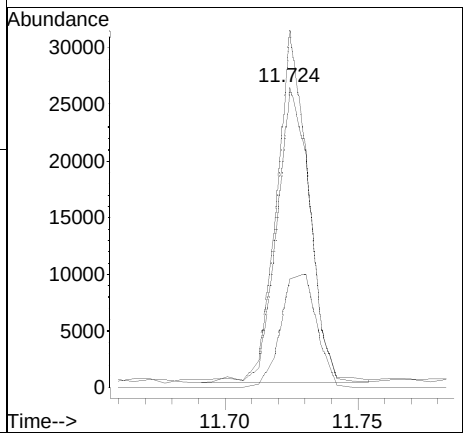


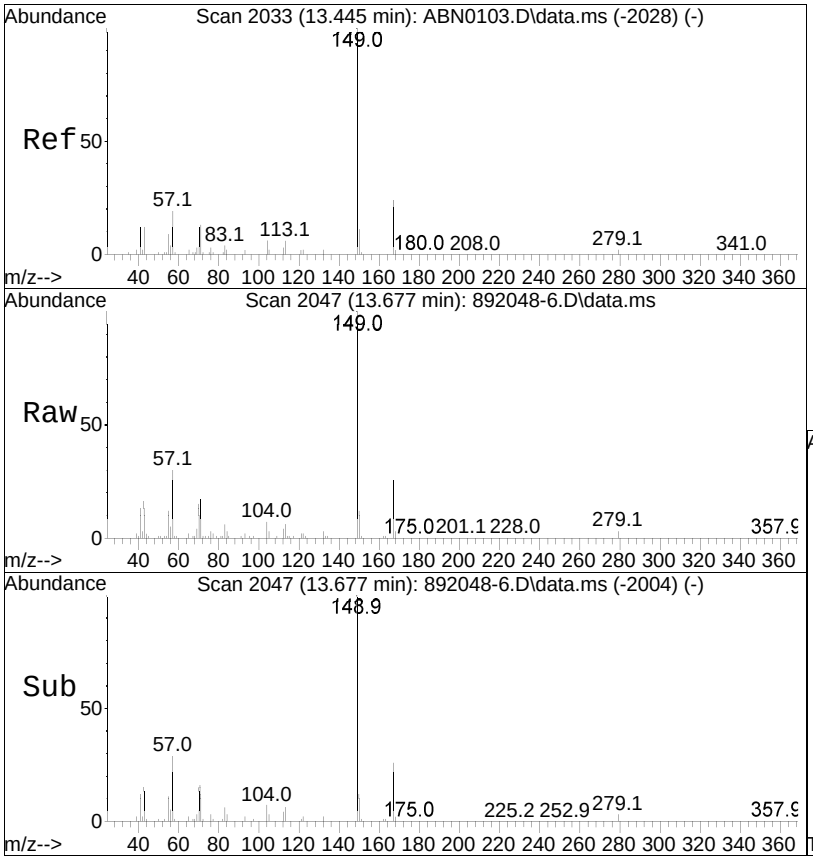


#101
Parathion
Concen: 5.19 ug/ml
RT: 11.724 min Scan# 1715
Delta R.T. -0.006 min
Lab File: 892048-6.D
Acq: 5 Mar 2024 7:23 pm

Tgt Ion:109 Resp: 23035

Ion	Ratio	Lower	Upper
109	100		
97	112.6	87.4	131.2
291	40.7	34.2	51.2

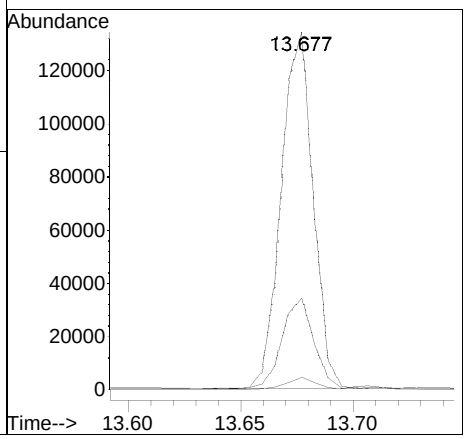


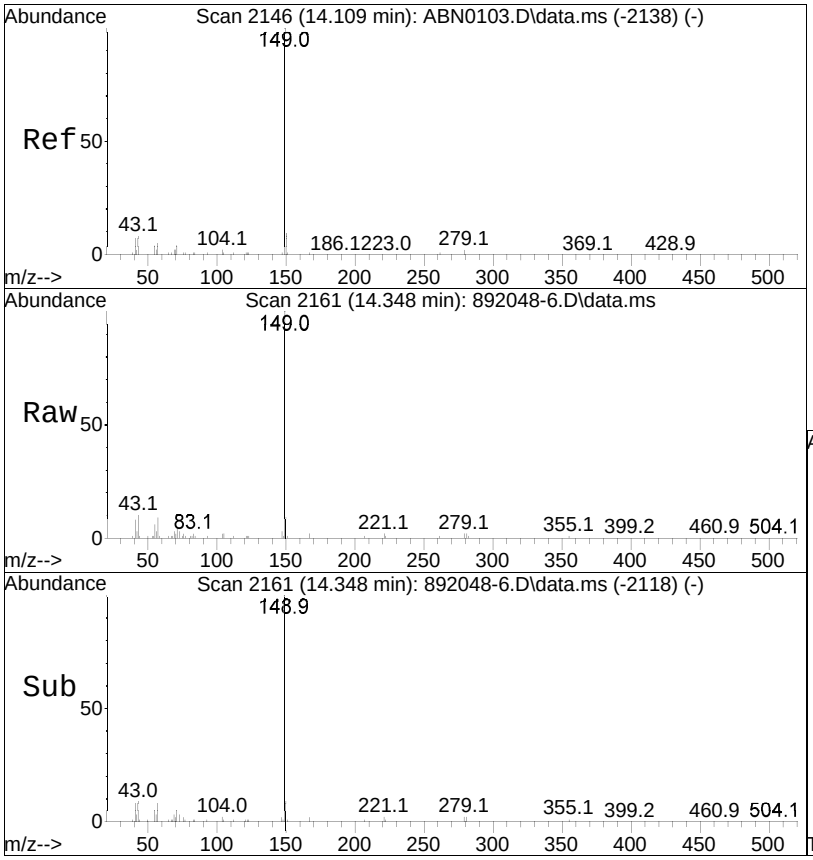


#107
Bis(2-ethylhexyl)phthalate
Concen: 3.51 ug/ml
RT: 13.677 min Scan# 2047
Delta R.T. 0.000 min
Lab File: 892048-6.D
Acq: 5 Mar 2024 7:23 pm

Tgt Ion:149 Resp: 130617

Ion	Ratio	Lower	Upper
149	100		
167	25.9	22.1	33.1
279	3.0	3.0	4.4

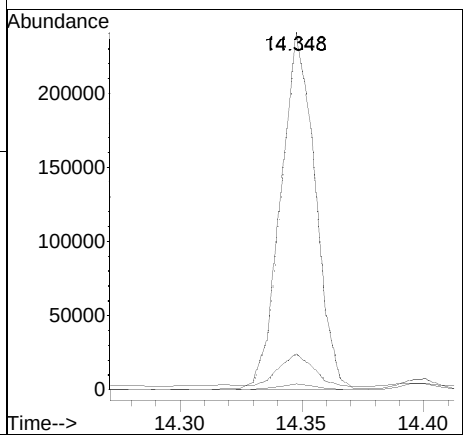




#108
Di-n-octylphthalate
Concen: 3.71 ug/ml
RT: 14.348 min Scan# 2161
Delta R.T. 0.000 min
Lab File: 892048-6.D
Acq: 5 Mar 2024 7:23 pm

Tgt Ion:149 Resp: 232908

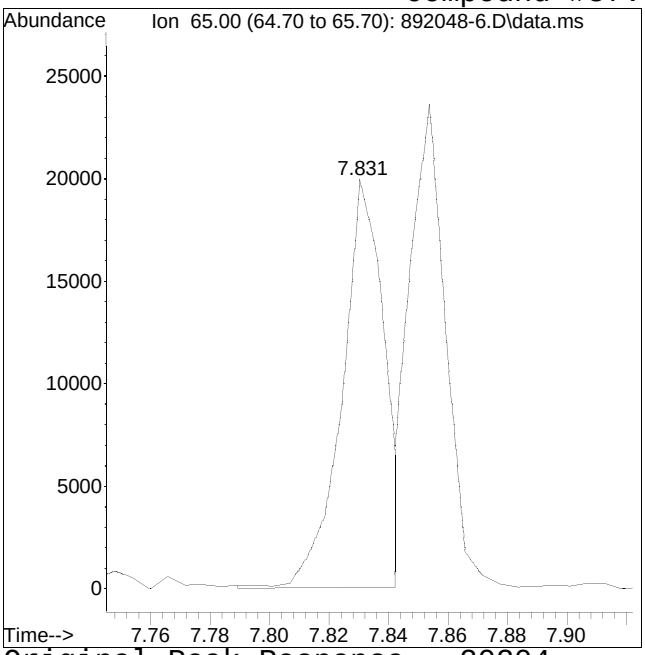
Ion	Ratio	Lower	Upper
149	100		
43	9.4	18.8	28.2#
167	1.7	1.3	1.9

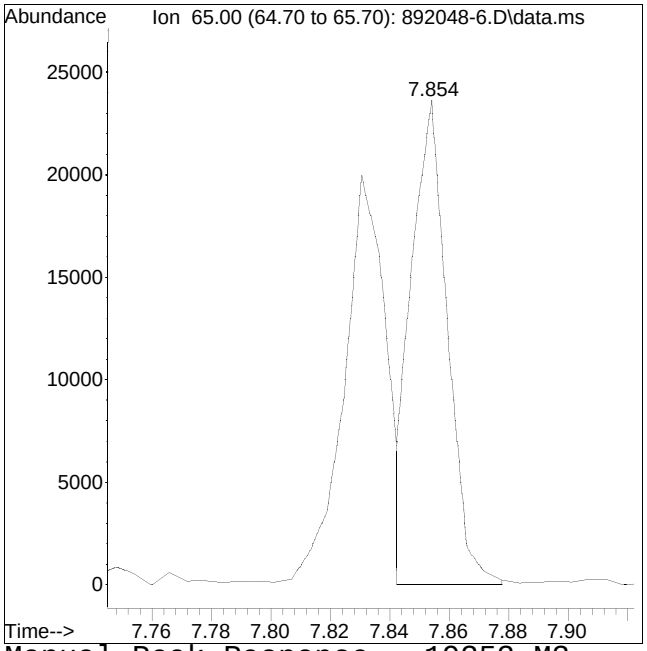


Manual Integration Report

Data Path	: I:\8270\SV106\240305lvi\	QMethod	: FS230902SV106.m
Data File	: 892048-6.D	Operator	: SV106:ek
Date Inj'd	: 3/5/2024 7:23 pm	Instrument	: SV 106
Sample	: WG1892048-6,32,,HNY	Quant Date	: 3/5/2024 7:43 pm

Compound #37: 4-Chloroaniline





Original Peak Response = 20204 Manual Peak Response = 19353 M3

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240305nlvi\
Data File : 892048-8.D
Acq On : 6 Mar 2024 7:15 am
Operator : SV106:sz
Sample : WG1892048-8,32,,ASK
Misc : WG1891343,WG1892048,ical20337
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Mar 06 07:35:21 2024
Quant Method : I:\8270\sv106\240305nlvi\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Mar 06 07:35:42 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv106\240305nlvi\ABN0305n.D
: 2 - I:\8270\sv106\240305nlvi\ADP0305n.D
: 3 - I:\8270\sv106\240305nlvi\AP90305n.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) IS1_1,4-Dichlorobenzen...	6.225	152	47397	4.000	ug/ml		0.00
Standard Area 1 = 30982			Recovery = 152.98%				
27) IS2_1,4-Dichlorobenzen...	6.225	152	47397	4.000	ug/ml		0.00
Standard Area 3 = 44853			Recovery = 105.67%				
34) IS1_Naphthalene-d8	7.672	136	178074	4.000	ug/ml	#	0.00
Standard Area 1 = 119694			Recovery = 148.77%				
54) IS2_Naphthalene-d8	7.672	136	178074	4.000	ug/ml	#	0.00
Standard Area 3 = 169408			Recovery = 105.12%				
62) IS1_Acenaphthene-d10	9.430	164	109068	4.000	ug/ml		0.00
Standard Area 1 = 75389			Recovery = 144.67%				
82) IS2_Acenaphthene-d10	9.430	164	109068	4.000	ug/ml		0.00
Standard Area 3 = 103448			Recovery = 105.43%				
85) IS3_Acenaphthene-d10	9.430	164	109068	4.000	ug/ml		0.00
Standard Area 2 = 101571			Recovery = 107.38%				
87) IS1_Phenanthrene-d10	10.866	188	209844	4.000	ug/ml		0.00
Standard Area 1 = 155798			Recovery = 134.69%				
99) IS3_Phenanthrene-d10	10.866	188	209844	4.000	ug/ml		0.00
Standard Area 2 = 234456			Recovery = 89.50%				
103) IS1_Chrysene-d12	13.471	240	169345	4.000	ug/ml		0.00
Standard Area 1 = 155365			Recovery = 109.00%				
112) IS1_Perylene-d12	14.924	264	184645	4.000	ug/ml		0.00
Standard Area 1 = 173003			Recovery = 106.73%				
System Monitoring Compounds							
4) 2-Fluorophenol	4.154	112	38230	2.892	ug/ml		0.03
Spiked Amount 5.000	Range 15 - 110		Recovery = 57.84%				
7) Phenol-d6	5.860	99	43371	2.547	ug/ml		0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 50.94%				
19) Nitrobenzene-d5	6.895	82	29524	1.912	ug/ml		0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 76.48%				
45) 2-Fluorobiphenyl	8.801	172	67728	1.992	ug/ml		0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 79.68%				
78) 2,4,6-Tribromophenol	10.201	330	18555	3.708	ug/ml		0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 74.16%				
95) 4-Terphenyl-d14	12.442	244	80827	1.756	ug/ml		0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 70.24%				

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240305nlvi\
Data File : 892048-8.D
Acq On : 6 Mar 2024 7:15 am
Operator : SV106:sz
Sample : WG1892048-8,32,,ASK
Misc : WG1891343,WG1892048,ical20337
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Mar 06 07:35:21 2024
Quant Method : I:\8270\sv106\240305nlvi\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Mar 06 07:35:42 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv106\240305nlvi\ABN0305n.D
: 2 - I:\8270\sv106\240305nlvi\ADP0305n.D
: 3 - I:\8270\sv106\240305nlvi\AP90305n.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Target Compounds						Qvalue
2) n-Nitrosodimethylamine	1.866	74	23577	2.938	ug/ml#	68
3) Pyridine	1.913	79	23209	1.702	ug/ml#	68
5) Aniline	5.807	93	45558	2.031	ug/ml	98
6) 2-Chlorophenol	5.954	128	51862	3.435	ug/ml	96
8) Phenol	5.878	94	55163	3.061	ug/ml	99
9) Bis(2-chloroethyl)ether	5.948	93	53012	3.662	ug/ml#	84
10) 1,3-Dichlorobenzene	6.142	146	57499	3.322	ug/ml	99
11) 1,4-Dichlorobenzene	6.242	146	58074	3.261	ug/ml	99
12) 1,2-Dichlorobenzene	6.425	146	57353	3.382	ug/ml	98
13) Benzyl alcohol	6.448	79	42898	3.372	ug/ml	96
14) Bis(2-chloroisopropyl)...	6.625	45	84006	3.940	ug/ml#	59
15) 2-Methylphenol	6.631	108	43389	3.219	ug/ml	97
17) n-Nitrosodi-n-propylamine	6.778	70	41517	3.795	ug/ml#	92
18) 3-Methylphenol/4-Methy...	6.819	108	50806	3.593	ug/ml#	96
20) Nitrobenzene	6.919	77	59700	3.891	ug/ml	97
21) Isophorone	7.201	82	108991	3.712	ug/ml	94
22) 2-Nitrophenol	7.278	139	27089	4.415	ug/ml#	91
23) 2,4-Dimethylphenol	7.395	107	36453	2.402	ug/ml	96
24) Bis(2-chloroethoxy)met...	7.483	93	71174	3.869	ug/ml	98
25) 2,4-Dichlorophenol	7.548	162	48464	3.802	ug/ml	97
26) 1,2,4-Trichlorobenzene	7.625	180	54463	3.722	ug/ml	99
28) Benzaldehyde	5.625	105	51540	4.686	ug/ml	90
29) Acetophenone	6.736	105	92003	3.894	ug/ml#	82
36) Benzoic Acid	7.472	105	25981	3.736	ug/ml	98
37) 4-Chloroaniline	7.783	65	18549	3.156	ug/ml	86
39) p-Chloro-m-cresol	8.319	107	50279	3.875	ug/ml	97
42) Hexachlorocyclopentadiene	8.589	237	34131	3.496	ug/ml	99
43) 2,4,6-Trichlorophenol	8.713	196	39998	4.307	ug/ml	94
44) 2,4,5-Trichlorophenol	8.742	196	41753	4.180	ug/ml	94
47) 2-Nitroaniline	9.007	138	34291	4.237	ug/ml	98
50) Dimethyl phthalate	9.219	163	132578	3.782	ug/ml#	97
52) 2,6-Dinitrotoluene	9.254	165	32087	4.787	ug/ml#	77
59) Caprolactam	8.101	55	15633	2.395	ug/ml#	65
60) 1,2,4,5-Tetrachloroben...	8.583	216	61006	3.939	ug/ml	96
61) Biphenyl	8.889	154	145759	3.826	ug/ml	99
63) 3-Nitroaniline	9.407	138	25404	3.256	ug/ml	91
65) 2,4-Dinitrophenol	9.513	184	17390	5.061	ug/ml#	74

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240305nlvi\
Data File : 892048-8.D
Acq On : 6 Mar 2024 7:15 am
Operator : SV106:sz
Sample : WG1892048-8,32,,ASK
Misc : WG1891343,WG1892048,ical20337
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Mar 06 07:35:21 2024
Quant Method : I:\8270\sv106\240305nlvi\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Mar 06 07:35:42 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv106\240305nlvi\ABN0305n.D
: 2 - I:\8270\sv106\240305nlvi\ADP0305n.D
: 3 - I:\8270\sv106\240305nlvi\AP90305n.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
66) Dibenzofuran	9.636	168	165287	3.586	ug/ml	97
67) 2,4-Dinitrotoluene	9.642	165	40750	4.209	ug/ml	99
68) 4-Nitrophenol	9.607	65	25930	3.635	ug/ml#	90
70) 2,3,4,6-Tetrachlorophenol	9.772	232	36002	3.916	ug/ml	98
71) Diethyl phthalate	9.907	149	136963	3.550	ug/ml	97
73) 4-Chlorophenyl phenyl ...	9.989	204	64942	3.737	ug/ml	93
74) 4-Nitroaniline	9.995	138	24098	3.060	ug/ml#	82
75) 4,6-Dinitro-o-cresol	10.030	198	24614	5.366	ug/ml#	67
76) NDPA/DPA	10.107	169	109558	3.576	ug/ml	98
77) Azobenzene	10.136	77	121457	3.377	ug/ml#	91
79) 4-Bromophenyl phenyl e...	10.460	248	38875	3.844	ug/ml#	87
84) Pentachloronitrobenzene	10.713	237	19636	4.329	ug/ml#	82
86) Atrazine	10.648	200	36621	3.897	ug/ml	97
90) Carbazole	11.107	167	176966	3.405	ug/ml	99
91) Di-n-butylphthalate	11.507	149	244199	3.669	ug/ml	99
93) Benzidine	0.000		0	N.D.		
96) Butyl benzyl phthalate	12.965	149	99205	3.493	ug/ml	93
101) Parathion	11.660	109	26593	5.399	ug/ml	95
105) 3,3'-Dichlorobenzidine	13.471	252	49709	2.489	ug/ml	95
107) Bis(2-ethylhexyl)phtha...	13.607	149	152416	4.051	ug/ml#	92
108) Di-n-octylphthalate	14.277	149	250061	3.940	ug/ml#	75

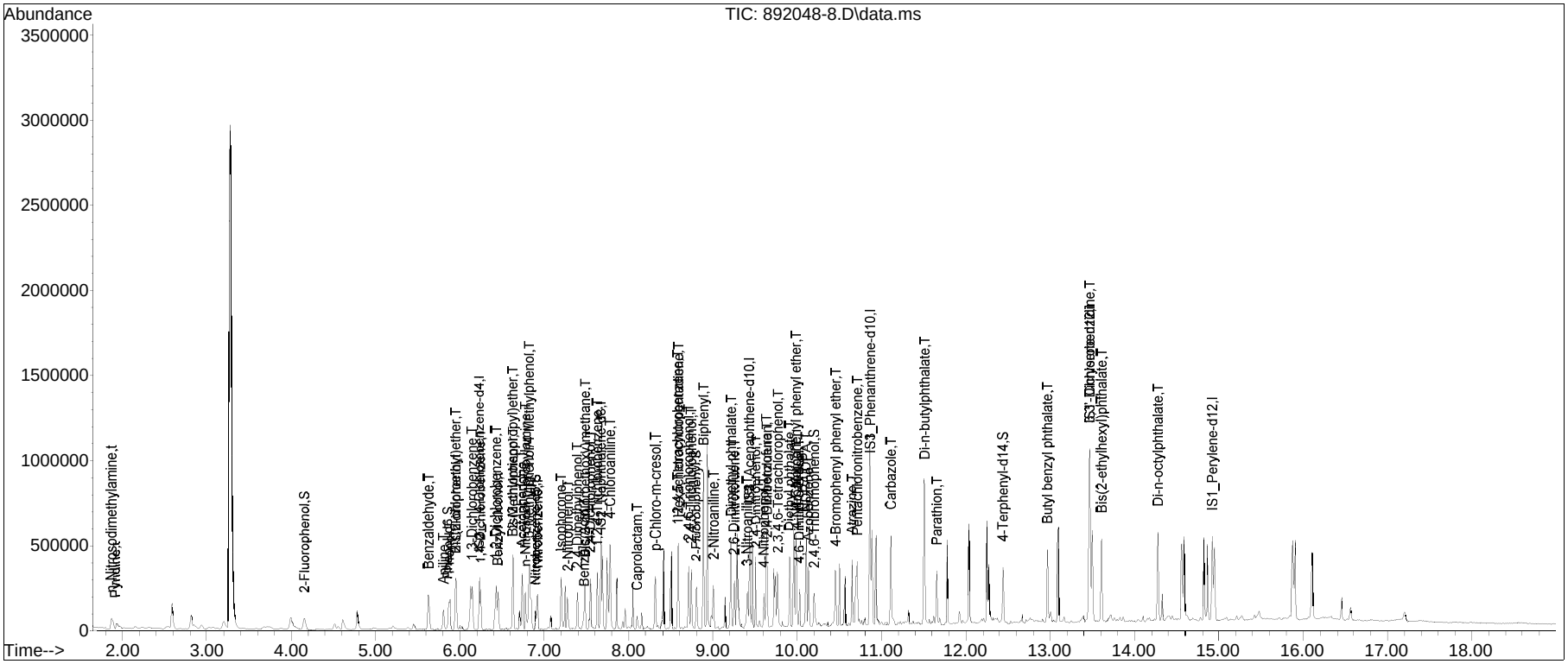
(#) = qualifier out of range (m) = manual integration (+) = signals summed

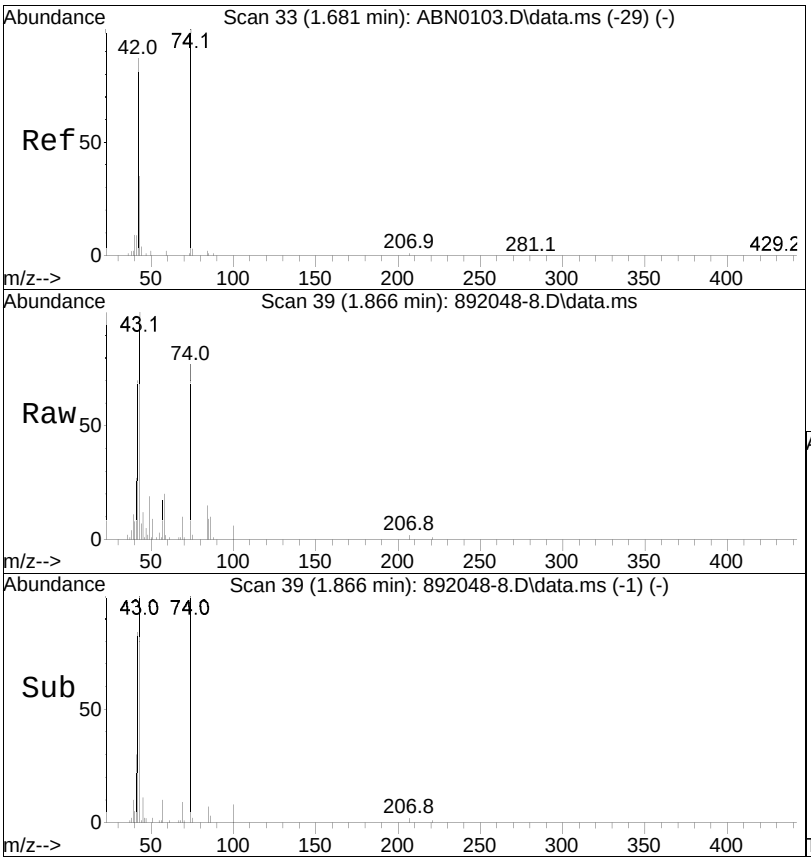
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240305nlvi\
Data File : 892048-8.D
Acq On : 6 Mar 2024 7:15 am
Operator : SV106:sz
Sample : WG1892048-8,32,,ASK
Misc : WG1891343,WG1892048,ical20337
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Mar 06 07:35:21 2024
Quant Method : I:\8270\sv106\240305nlvi\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Mar 06 07:35:42 2024
Response via : Initial Calibration

Sub List : 8270TCL_combo_REV1 - TCL/CT/MAP90305n.D•

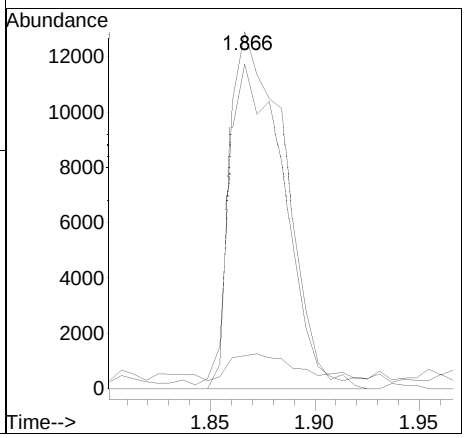


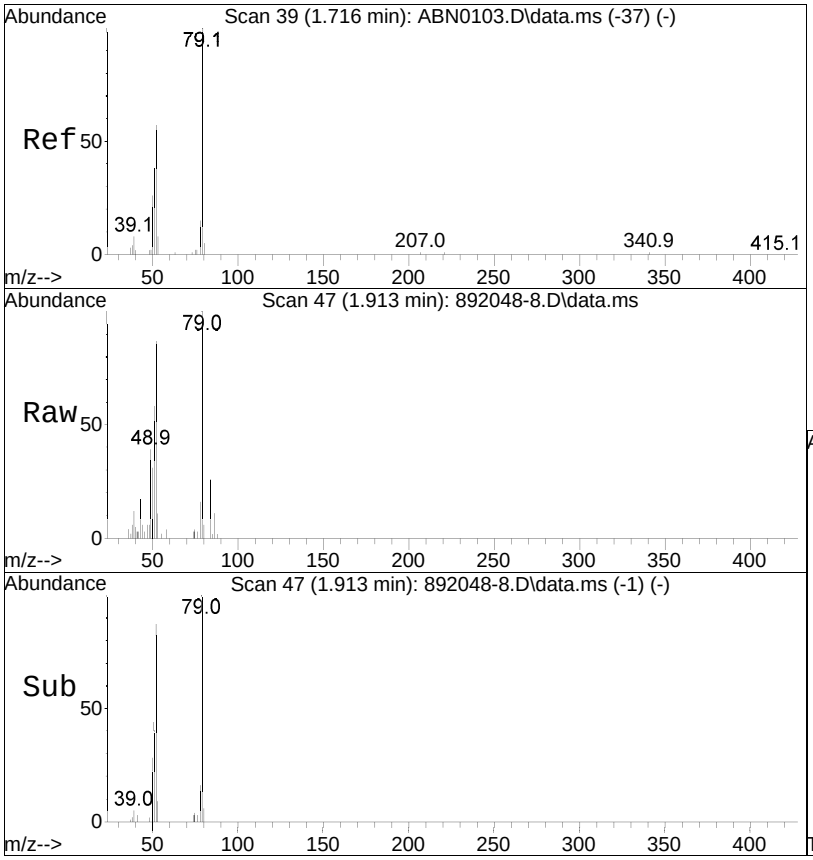


#2
n-Nitrosodimethylamine
Concen: 2.94 ug/ml
RT: 1.866 min Scan# 39
Delta R.T. 0.023 min
Lab File: 892048-8.D
Acq: 6 Mar 2024 7:15 am

Tgt Ion: 74 Resp: 23577

Ion	Ratio	Lower	Upper
74	100		
42	86.6	100.0	150.0#
44	9.3	6.7	10.1

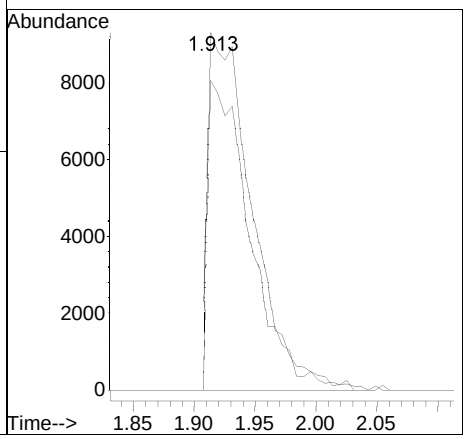


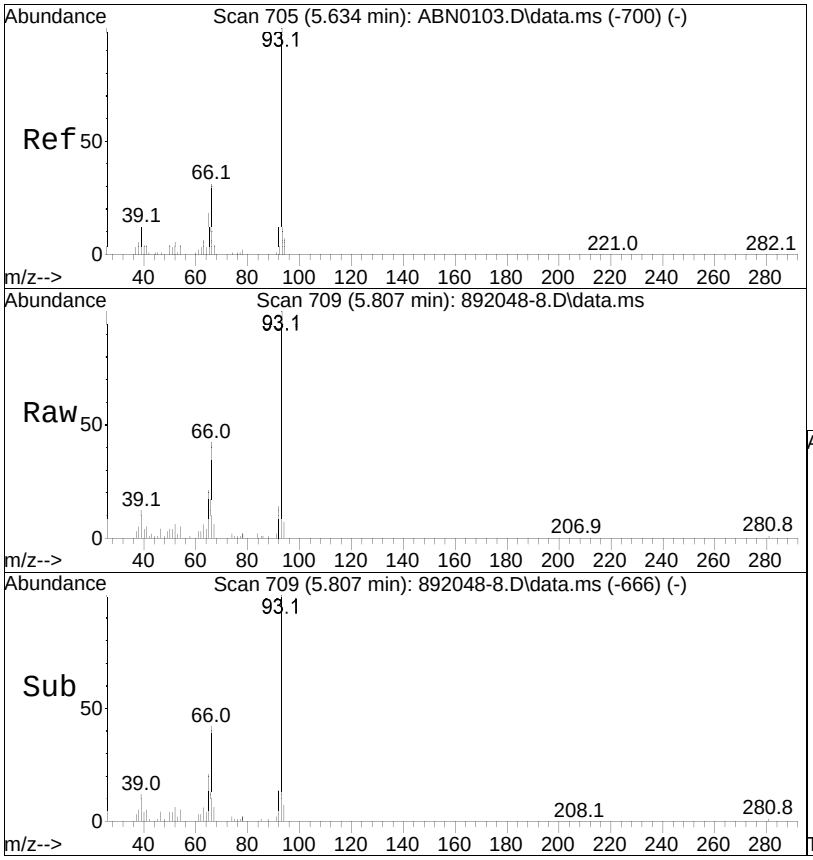


#3
Pyridine
Concen: 1.70 ug/ml
RT: 1.913 min Scan# 47
Delta R.T. 0.029 min
Lab File: 892048-8.D
Acq: 6 Mar 2024 7:15 am

Tgt Ion: 79 Resp: 23209

Ion	Ratio	Lower	Upper
79	100		
52	81.4	93.1	139.7#

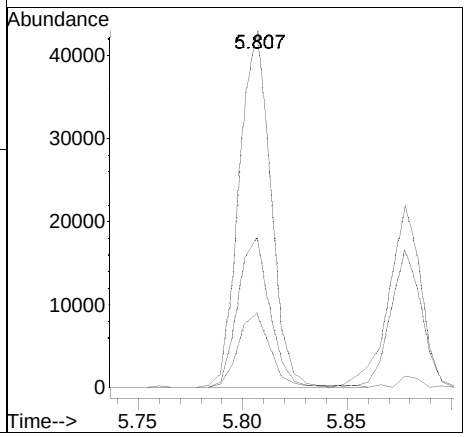


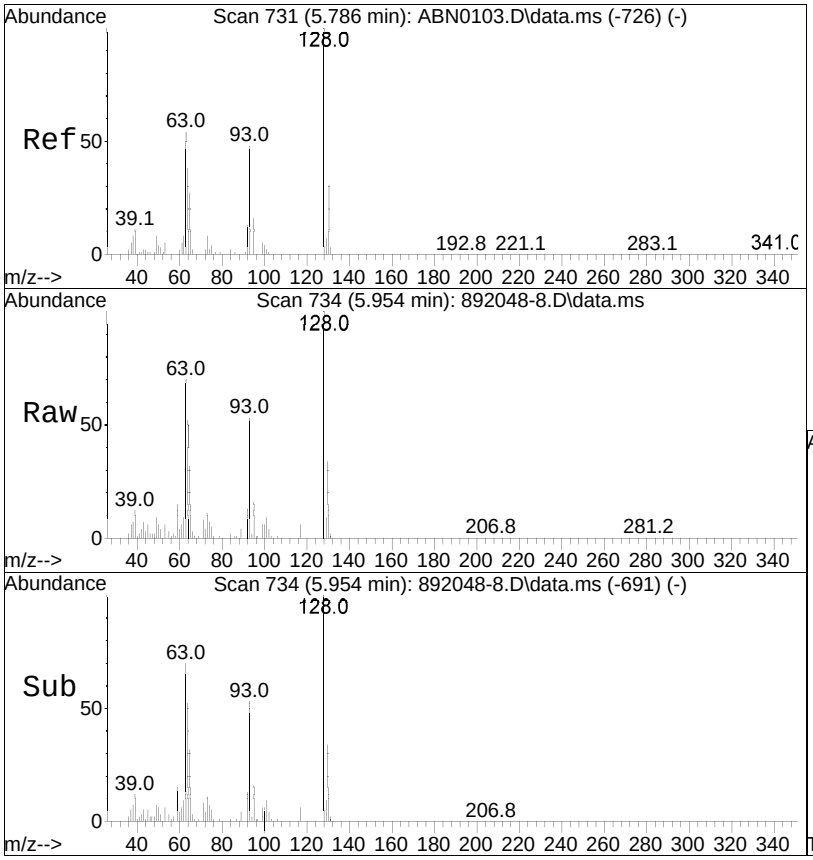


#5
Aniline
Concen: 2.03 ug/ml
RT: 5.807 min Scan# 709
Delta R.T. 0.006 min
Lab File: 892048-8.D
Acq: 6 Mar 2024 7:15 am

Tgt Ion: 93 Resp: 45558

Ion	Ratio	Lower	Upper
93	100		
66	42.3	32.6	49.0
65	21.1	17.6	26.4

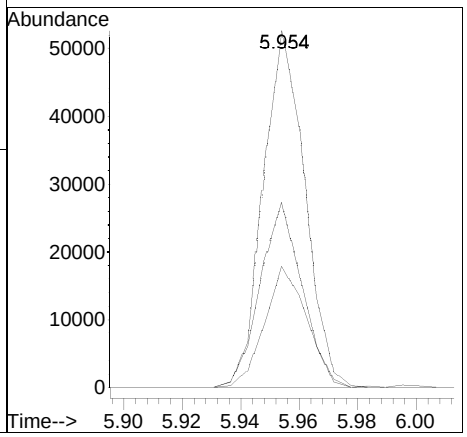


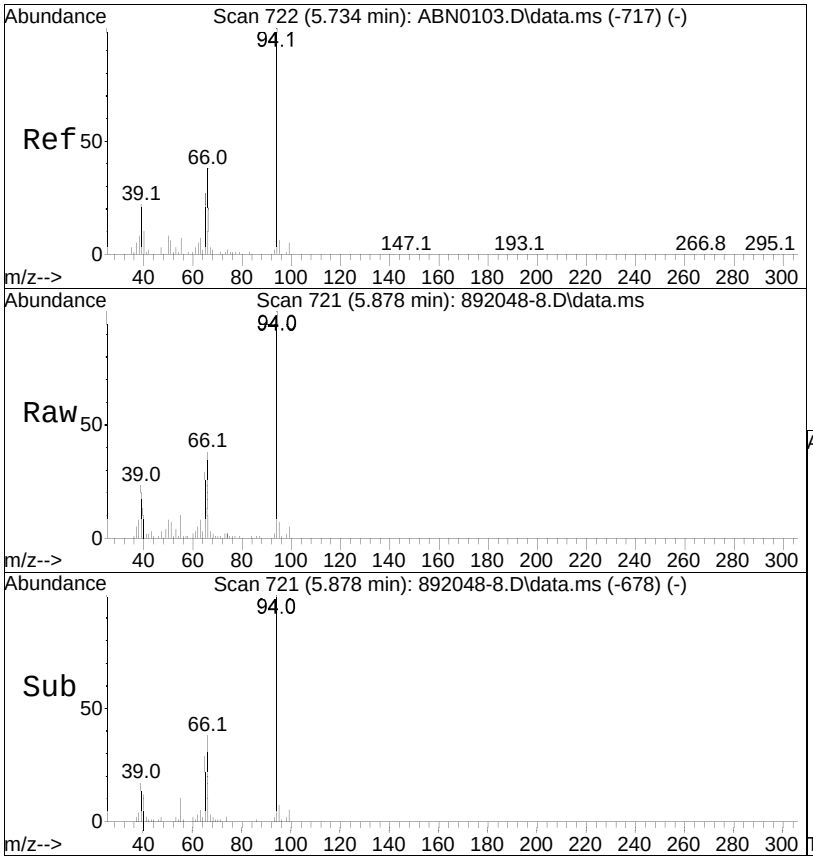


#6
2-Chlorophenol
Concen: 3.44 ug/ml
RT: 5.954 min Scan# 734
Delta R.T. 0.006 min
Lab File: 892048-8.D
Acq: 6 Mar 2024 7:15 am

Tgt Ion:128 Resp: 51862

Ion	Ratio	Lower	Upper
128	100		
64	52.7	45.1	67.7
130	34.5	26.2	39.4

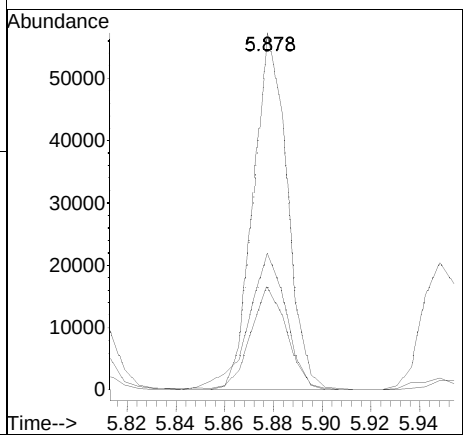


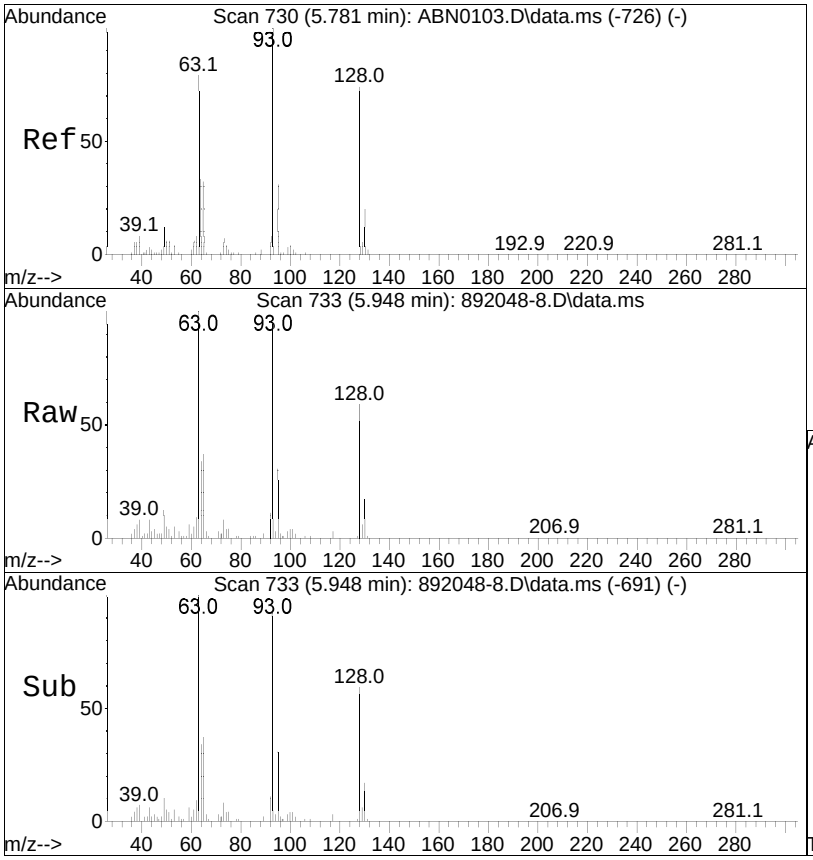


#8
Phenol
Concen: 3.06 ug/ml
RT: 5.878 min Scan# 721
Delta R.T. 0.006 min
Lab File: 892048-8.D
Acq: 6 Mar 2024 7:15 am

Tgt Ion: 94 Resp: 55163

Ion	Ratio	Lower	Upper
94	100		
65	31.2	26.0	39.0
66	42.7	33.8	50.8

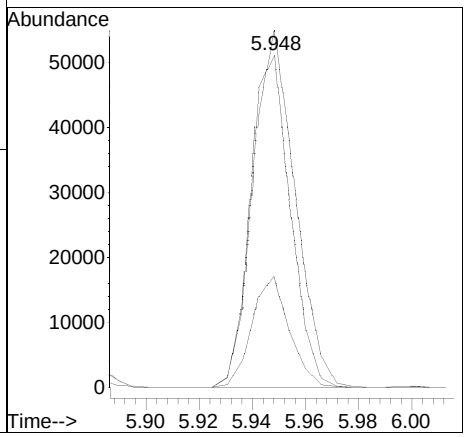


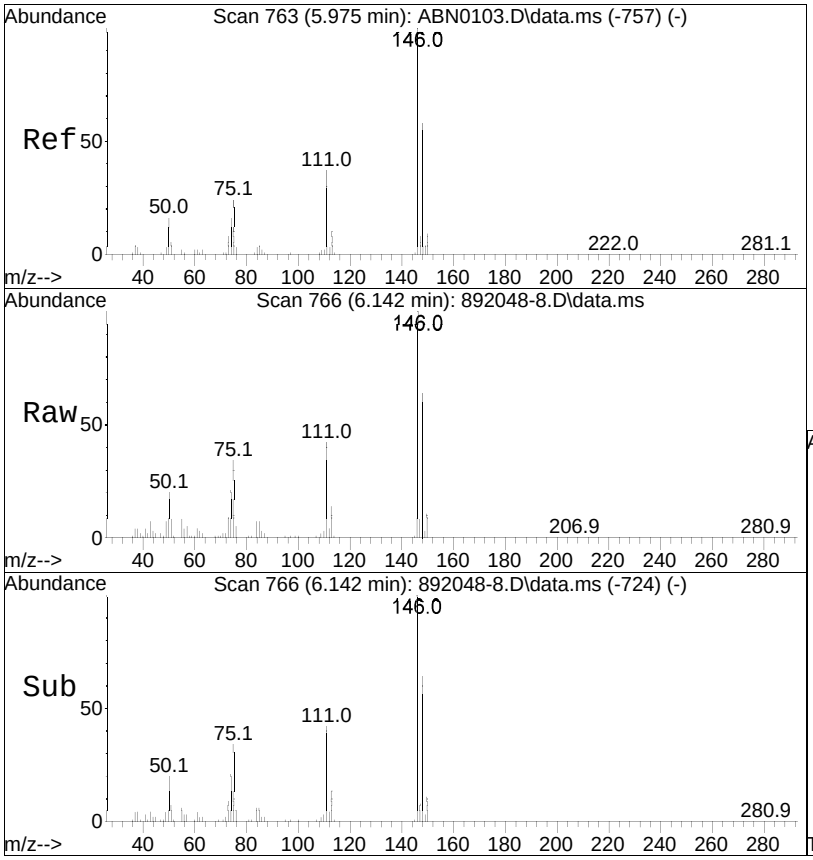


#9
Bis(2-chloroethyl)ether
Concen: 3.66 ug/ml
RT: 5.948 min Scan# 733
Delta R.T. -0.000 min
Lab File: 892048-8.D
Acq: 6 Mar 2024 7:15 am

Tgt Ion: 93 Resp: 53012

Ion	Ratio	Lower	Upper
93	100		
63	113.4	74.6	111.8#
95	31.6	25.9	38.9

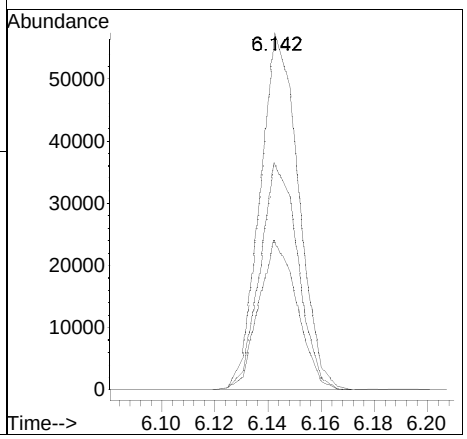


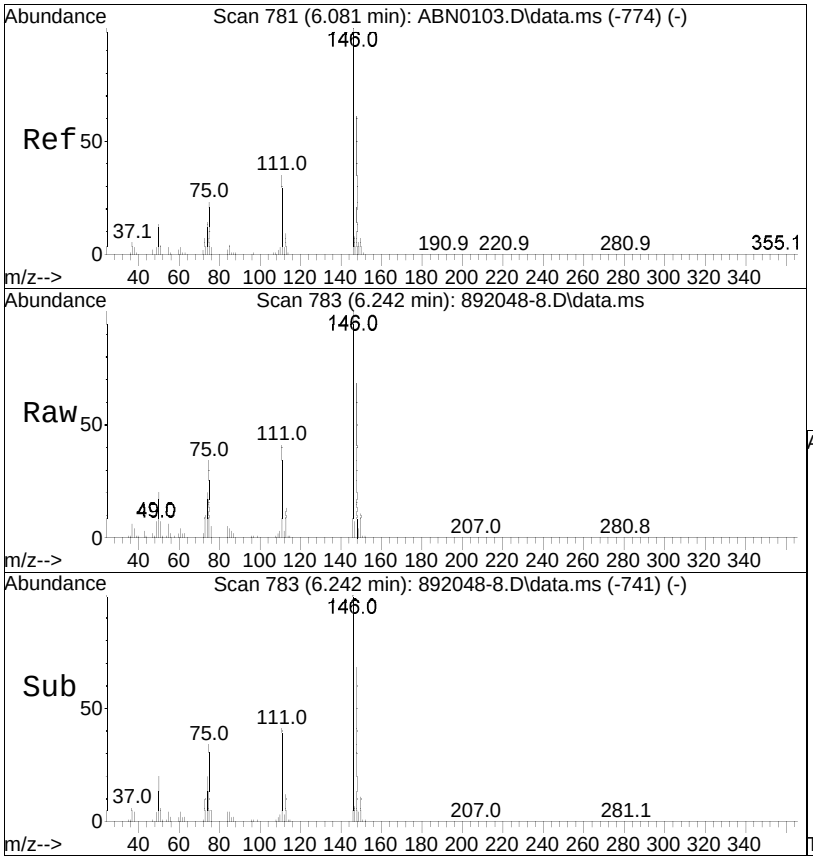


#10
1,3-Dichlorobenzene
Concen: 3.32 ug/ml
RT: 6.142 min Scan# 766
Delta R.T. -0.000 min
Lab File: 892048-8.D
Acq: 6 Mar 2024 7:15 am

Tgt Ion:146 Resp: 57499

Ion	Ratio	Lower	Upper
146	100		
111	42.0	34.3	51.5
148	62.5	50.8	76.2

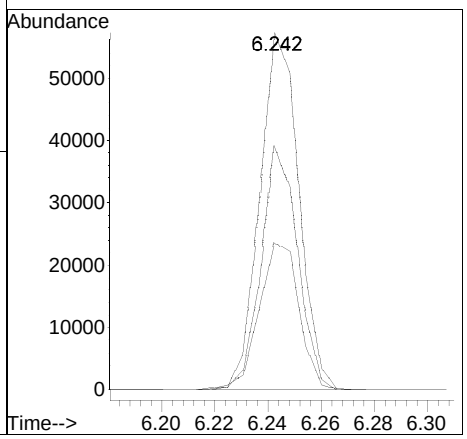


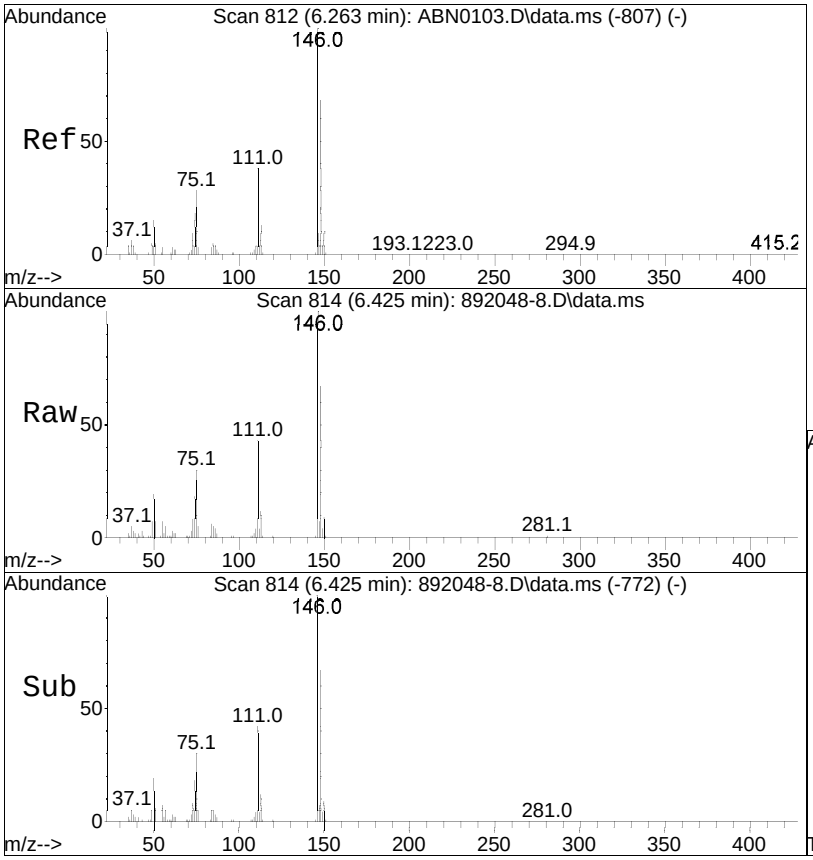


#11
1,4-Dichlorobenzene
Concen: 3.26 ug/ml
RT: 6.242 min Scan# 783
Delta R.T. -0.000 min
Lab File: 892048-8.D
Acq: 6 Mar 2024 7:15 am

Tgt Ion:146 Resp: 58074

Ion	Ratio	Lower	Upper
146	100		
148	64.1	50.7	76.1
111	42.6	33.4	50.0

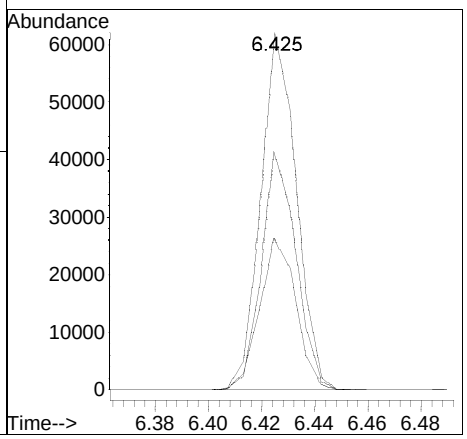


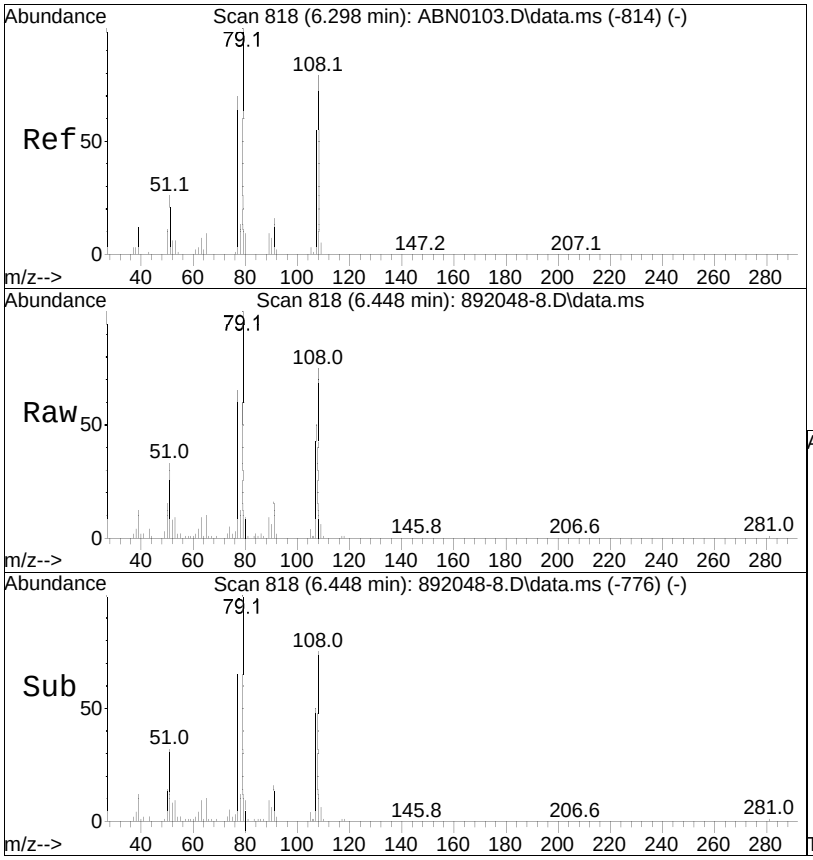


#12
1,2-Dichlorobenzene
Concen: 3.38 ug/ml
RT: 6.425 min Scan# 814
Delta R.T. -0.000 min
Lab File: 892048-8.D
Acq: 6 Mar 2024 7:15 am

Tgt Ion:146 Resp: 57353

Ion	Ratio	Lower	Upper
146	100		
111	43.8	34.6	52.0
148	64.8	50.2	75.4

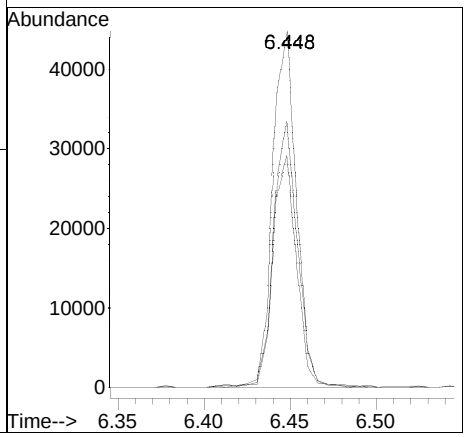


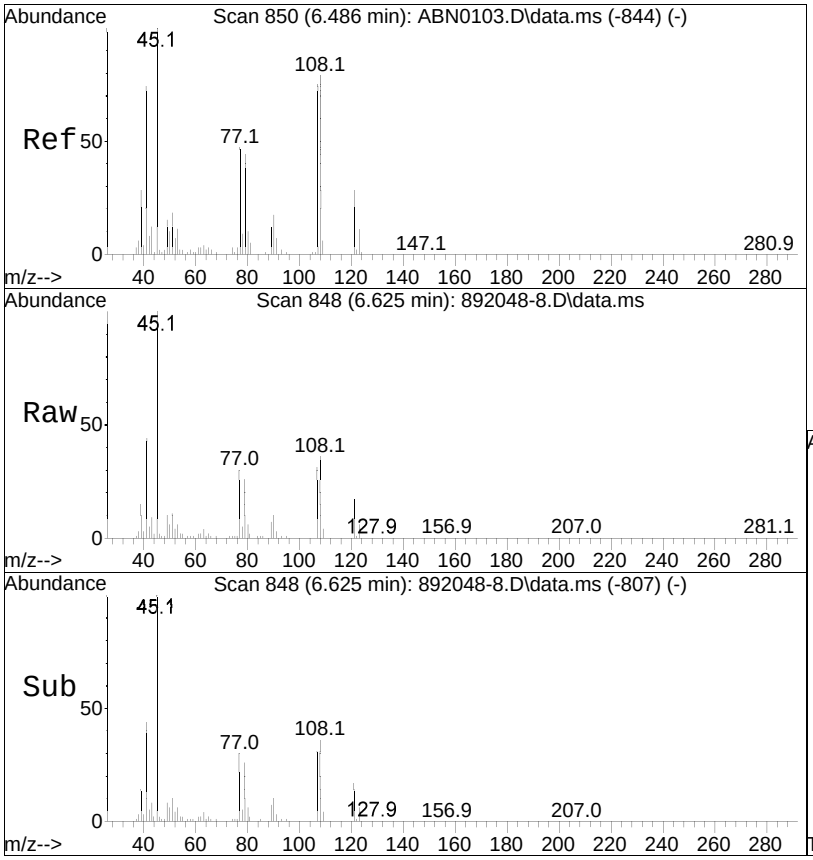


#13
Benzyl alcohol
Concen: 3.37 ug/ml
RT: 6.448 min Scan# 818
Delta R.T. -0.000 min
Lab File: 892048-8.D
Acq: 6 Mar 2024 7:15 am

Tgt Ion: 79 Resp: 42898

Ion	Ratio	Lower	Upper
79	100		
77	65.1	54.9	82.3
108	75.7	63.1	94.7

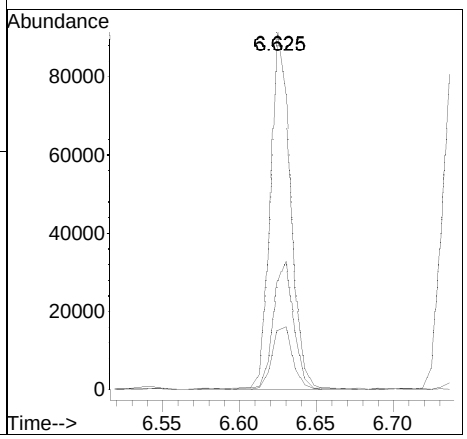


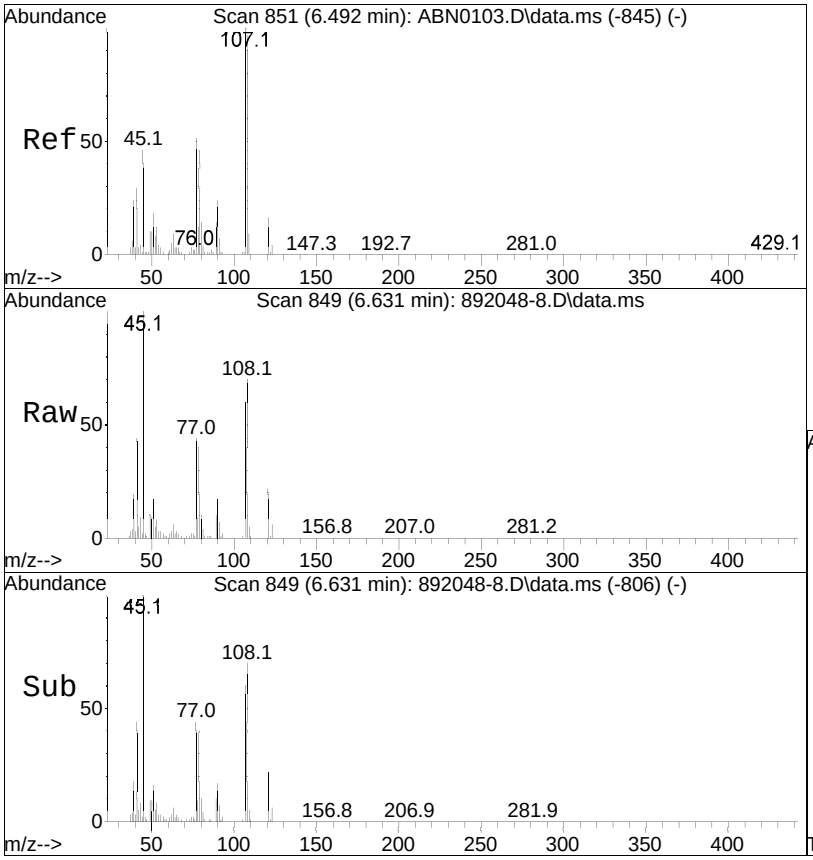


#14
Bis(2-chloroisopropyl)ether
Concen: 3.94 ug/ml
RT: 6.625 min Scan# 848
Delta R.T. -0.006 min
Lab File: 892048-8.D
Acq: 6 Mar 2024 7:15 am

Tgt Ion: 45 Resp: 84006

Ion	Ratio	Lower	Upper
45	100		
121	17.9	9.8	14.6#
77	36.5	6.1	9.1#

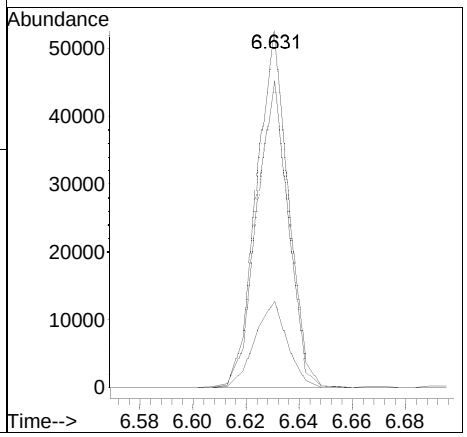


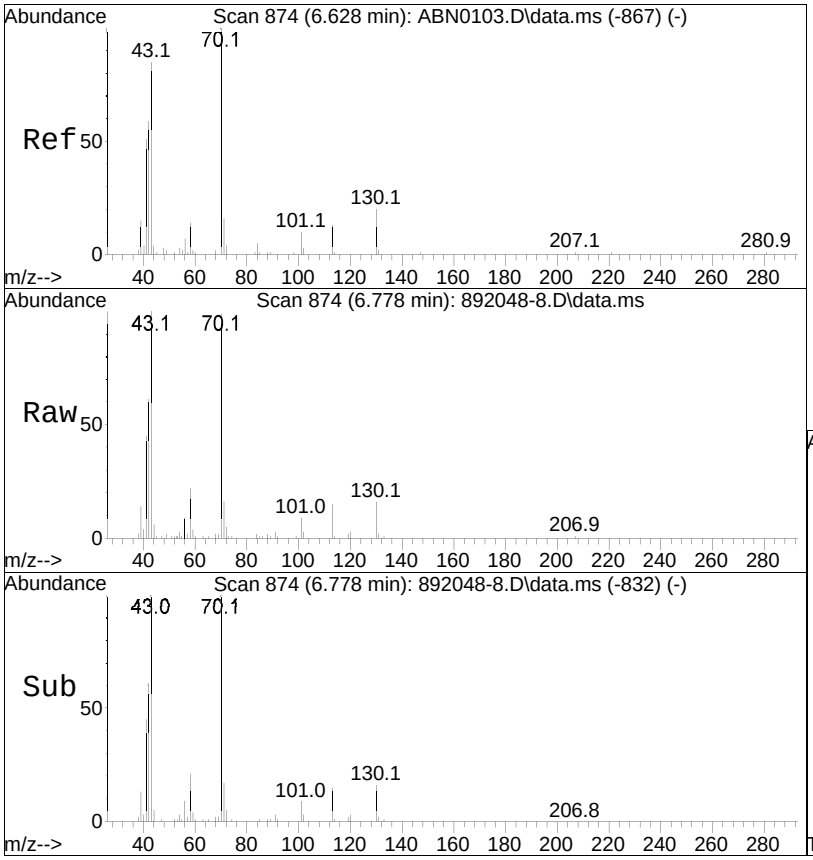


#15
2-Methylphenol
Concen: 3.22 ug/ml
RT: 6.631 min Scan# 849
Delta R.T. 0.006 min
Lab File: 892048-8.D
Acq: 6 Mar 2024 7:15 am

Tgt Ion:108 Resp: 43389

Ion	Ratio	Lower	Upper
108	100		
107	85.9	70.7	106.1
90	25.0	18.7	28.1

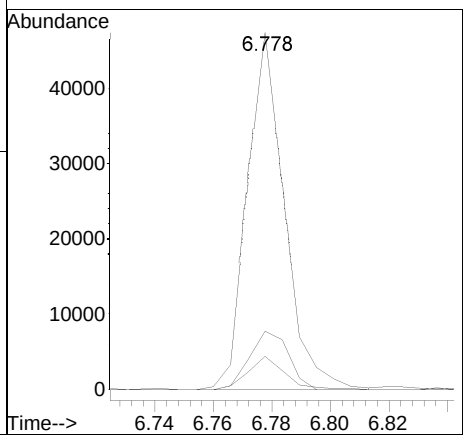


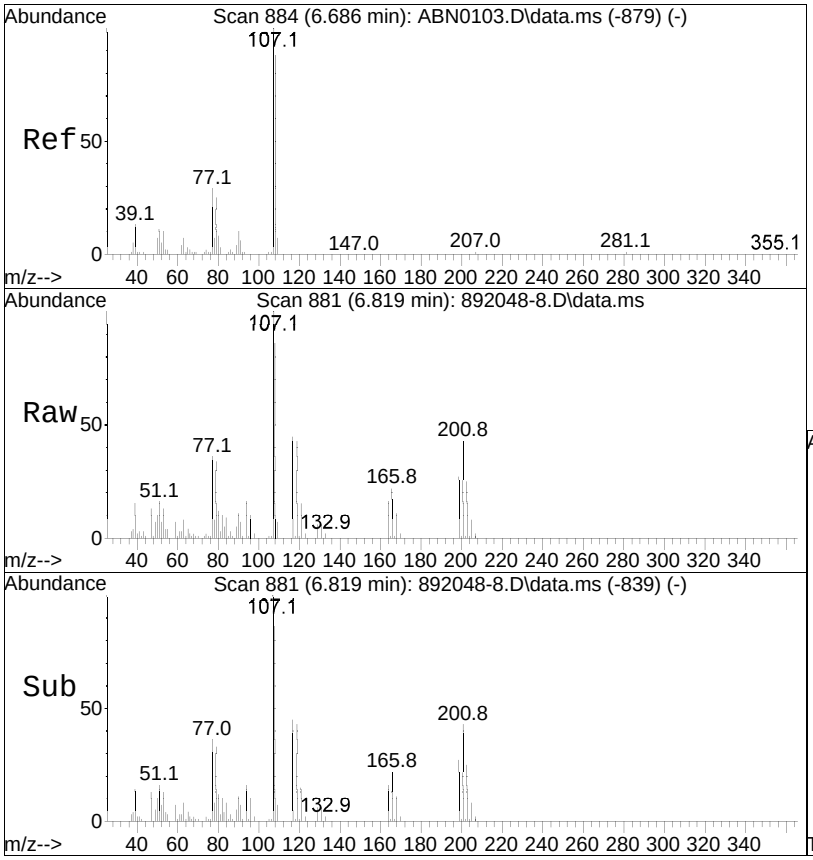


#17
n-Nitrosodi-n-propylamine
Concen: 3.79 ug/ml
RT: 6.778 min Scan# 874
Delta R.T. -0.000 min
Lab File: 892048-8.D
Acq: 6 Mar 2024 7:15 am

Tgt Ion: 70 Resp: 41517

Ion	Ratio	Lower	Upper
70	100		
130	17.2	18.2	27.4#
101	9.4	7.8	11.8

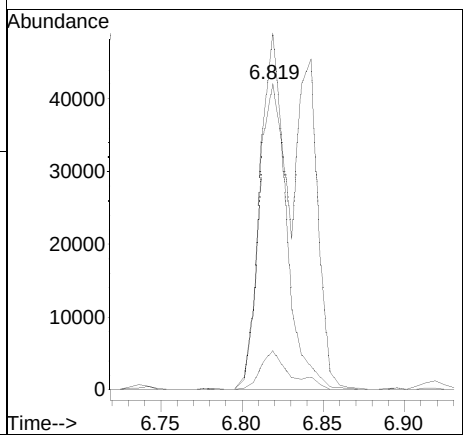


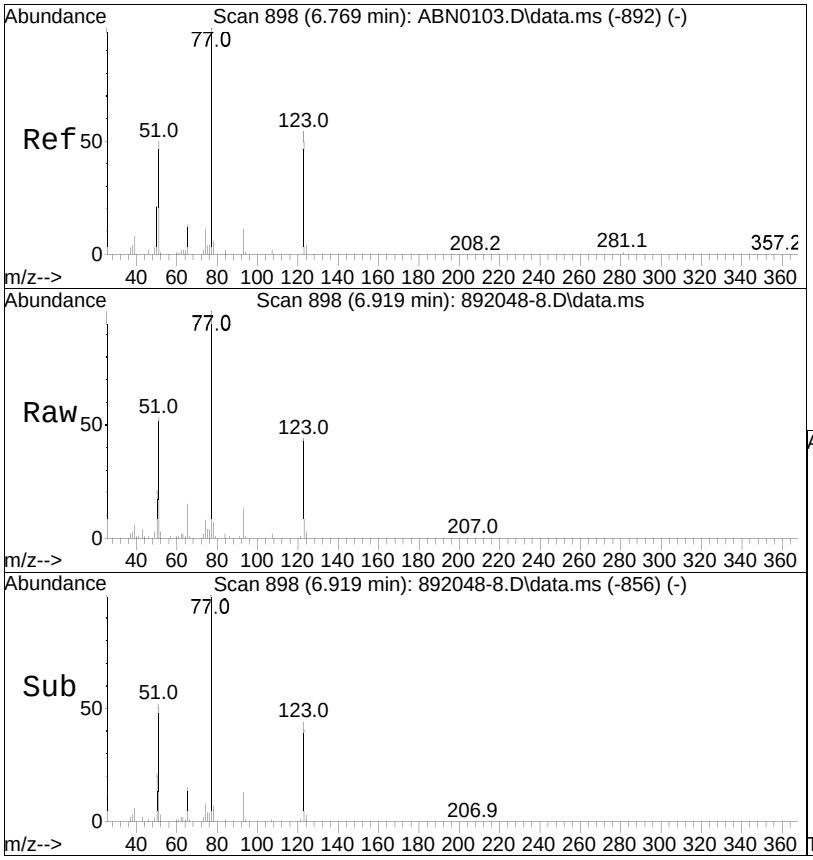


#18
3-Methylphenol/4-Methylphenol
Concen: 3.59 ug/ml
RT: 6.819 min Scan# 881
Delta R.T. -0.000 min
Lab File: 892048-8.D
Acq: 6 Mar 2024 7:15 am

Tgt Ion:108 Resp: 50806

Ion	Ratio	Lower	Upper
108	100		
107	106.6	88.6	132.8
90	13.2	8.8	13.2#

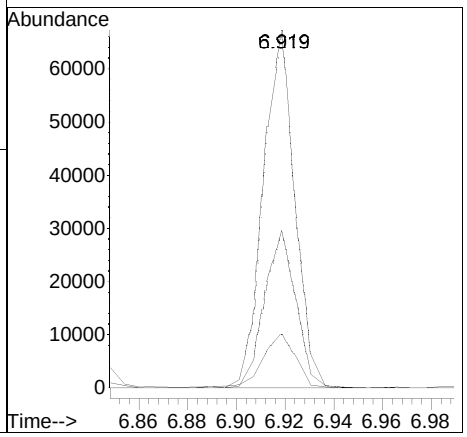


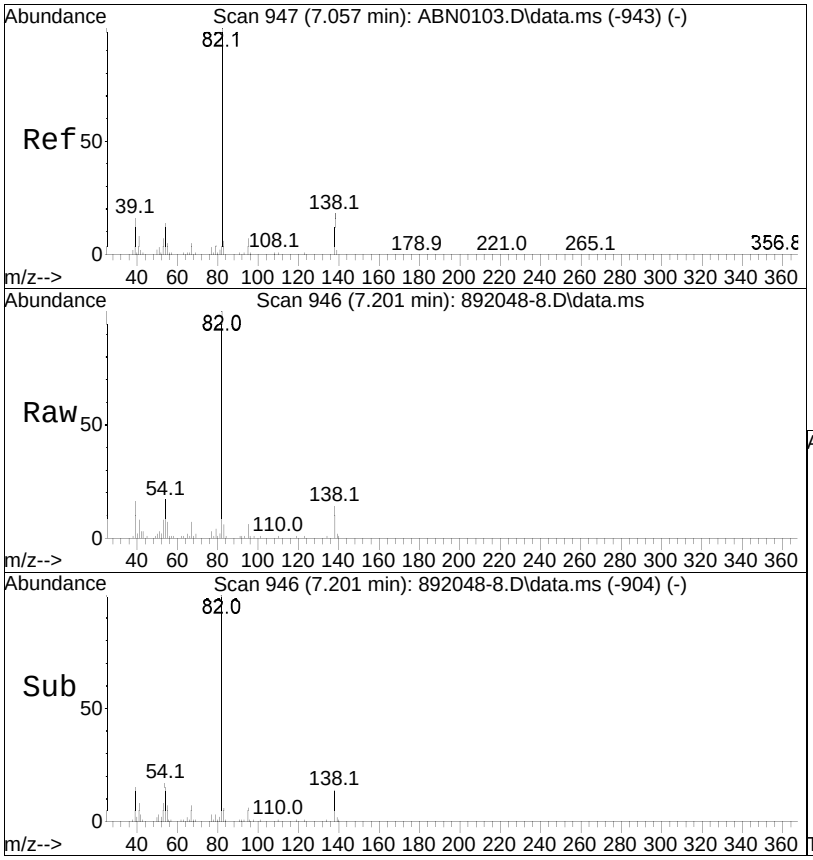


#20
Nitrobenzene
Concen: 3.89 ug/ml
RT: 6.919 min Scan# 898
Delta R.T. -0.000 min
Lab File: 892048-8.D
Acq: 6 Mar 2024 7:15 am

Tgt Ion: 77 Resp: 59700

Ion	Ratio	Lower	Upper
77	100		
123	44.0	36.3	54.5
65	16.1	11.6	17.4

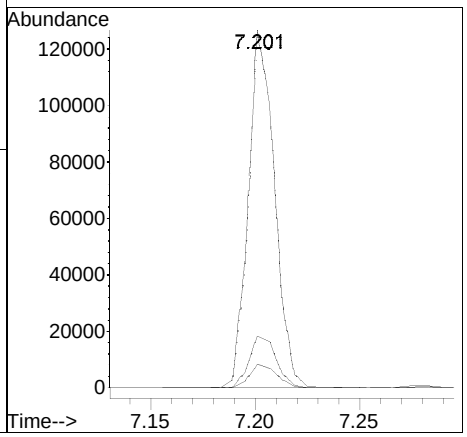


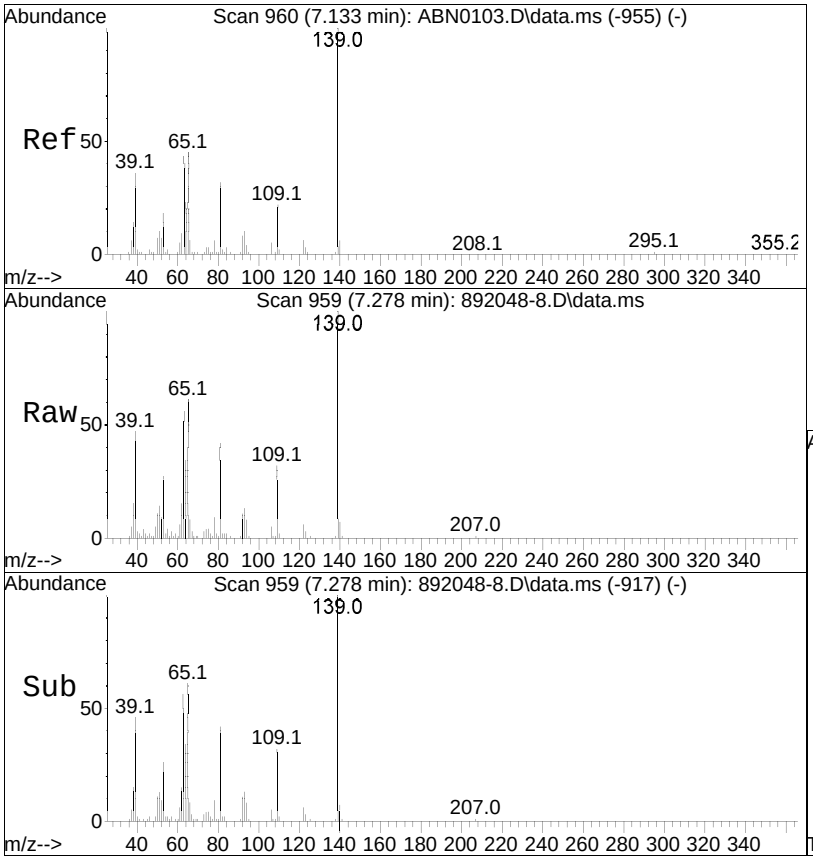


#21
Isophorone
Concen: 3.71 ug/ml
RT: 7.201 min Scan# 946
Delta R.T. -0.000 min
Lab File: 892048-8.D
Acq: 6 Mar 2024 7:15 am

Tgt Ion: 82 Resp: 108991

Ion	Ratio	Lower	Upper
82	100		
138	15.1	14.7	22.1
95	7.1	5.2	7.8

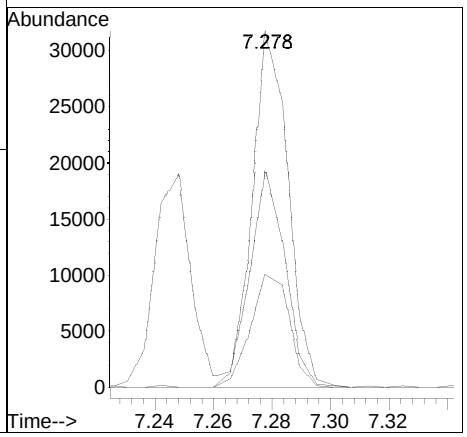


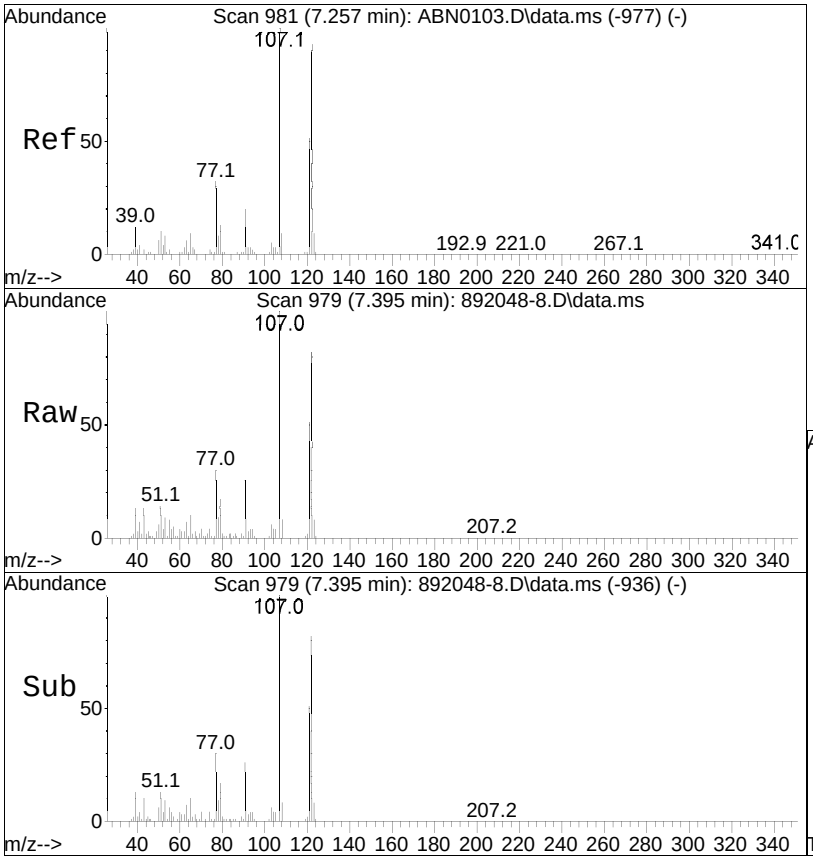


#22
2-Nitrophenol
Concen: 4.42 ug/ml
RT: 7.278 min Scan# 959
Delta R.T. -0.000 min
Lab File: 892048-8.D
Acq: 6 Mar 2024 7:15 am

Tgt Ion:139 Resp: 27089

Ion	Ratio	Lower	Upper
139	100		
109	34.6	19.4	29.0#
65	60.4	46.1	69.1

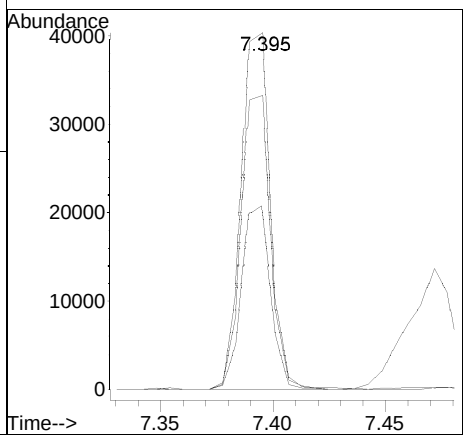


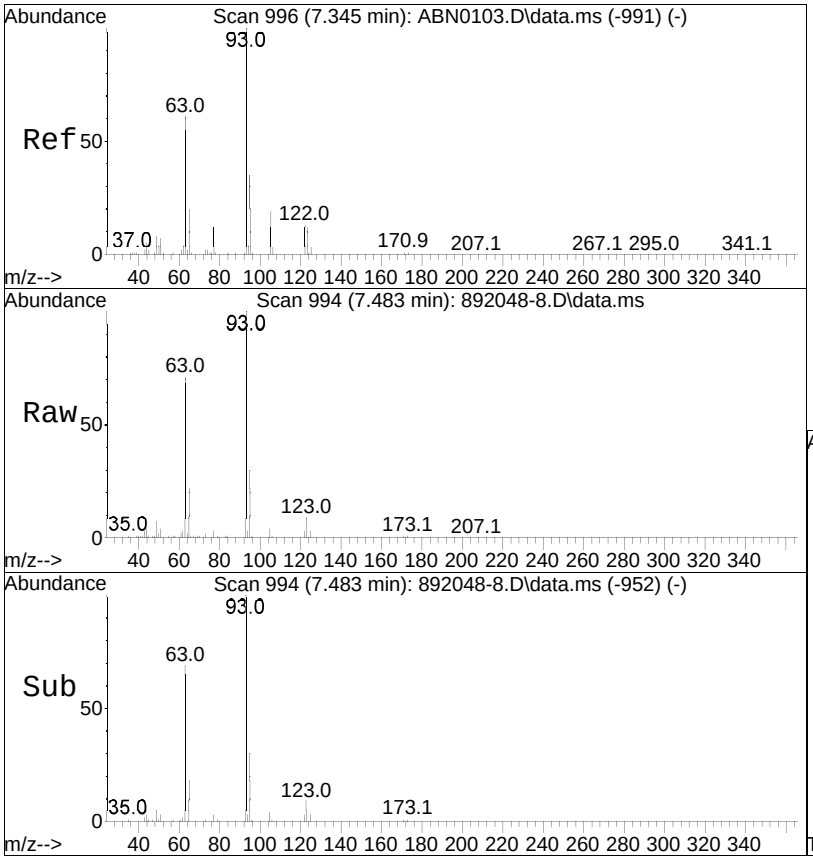


#23
2,4-Dimethylphenol
Concen: 2.40 ug/ml
RT: 7.395 min Scan# 979
Delta R.T. 0.006 min
Lab File: 892048-8.D
Acq: 6 Mar 2024 7:15 am

Tgt Ion:107 Resp: 36453

Ion	Ratio	Lower	Upper
107	100		
121	51.3	40.0	60.0
122	82.7	70.2	105.4

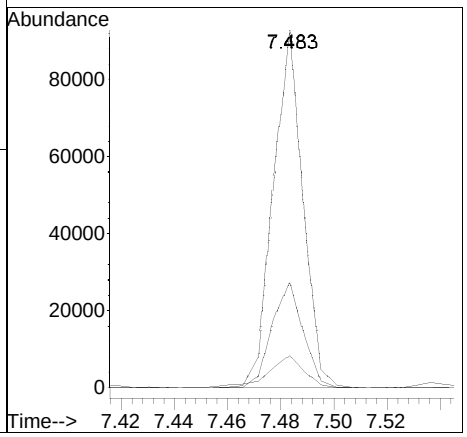


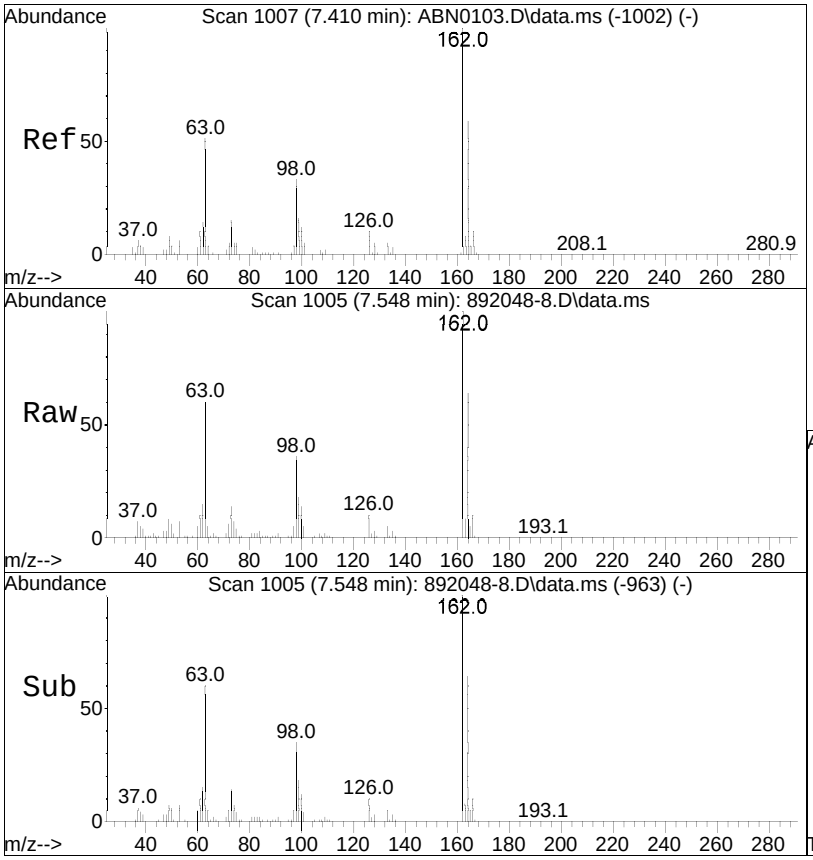


#24
Bis(2-chloroethoxy)methane
Concen: 3.87 ug/ml
RT: 7.483 min Scan# 994
Delta R.T. -0.000 min
Lab File: 892048-8.D
Acq: 6 Mar 2024 7:15 am

Tgt Ion: 93 Resp: 71174

Ion	Ratio	Lower	Upper
93	100		
95	31.4	25.8	38.8
123	11.0	10.1	15.1

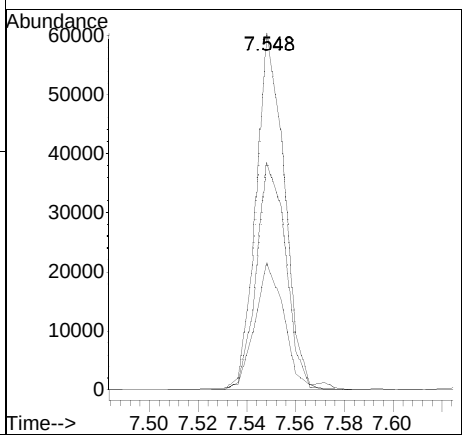


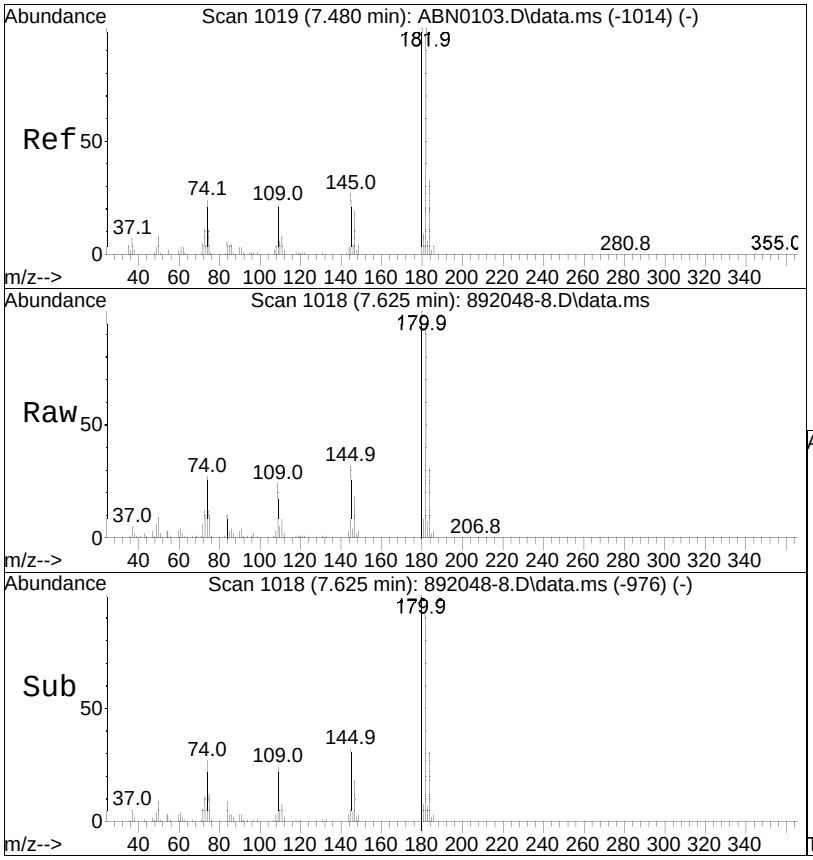


#25
2,4-Dichlorophenol
Concen: 3.80 ug/ml
RT: 7.548 min Scan# 1005
Delta R.T. -0.000 min
Lab File: 892048-8.D
Acq: 6 Mar 2024 7:15 am

Tgt Ion:162 Resp: 48464

Ion	Ratio	Lower	Upper
162	100		
164	66.6	51.0	76.4
98	38.9	32.2	48.2

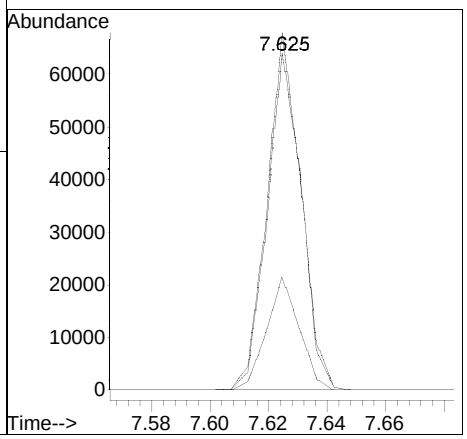


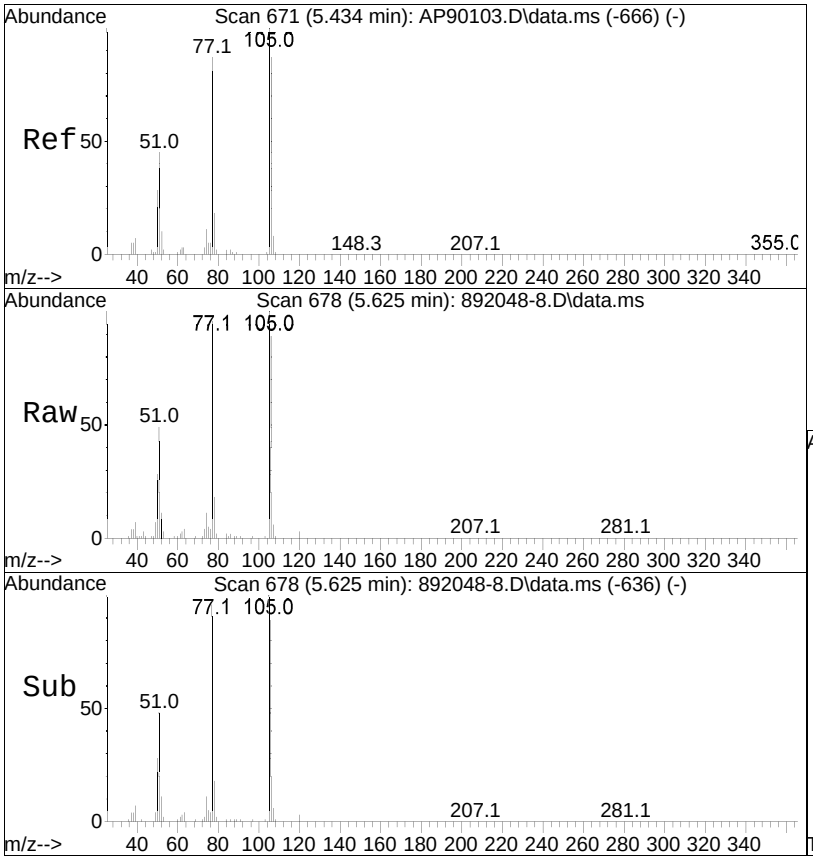


#26
1,2,4-Trichlorobenzene
Concen: 3.72 ug/ml
RT: 7.625 min Scan# 1018
Delta R.T. -0.000 min
Lab File: 892048-8.D
Acq: 6 Mar 2024 7:15 am

Tgt Ion:180 Resp: 54463

Ion	Ratio	Lower	Upper
180	100		
182	95.1	76.0	114.0
145	30.6	25.7	38.5

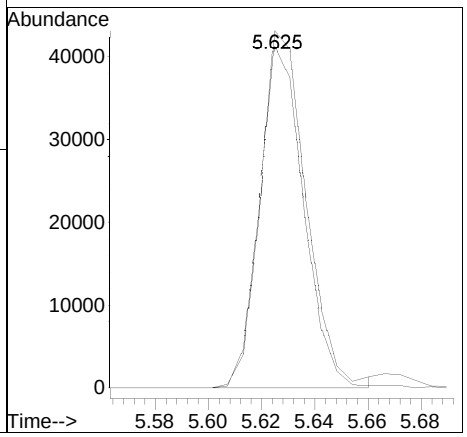


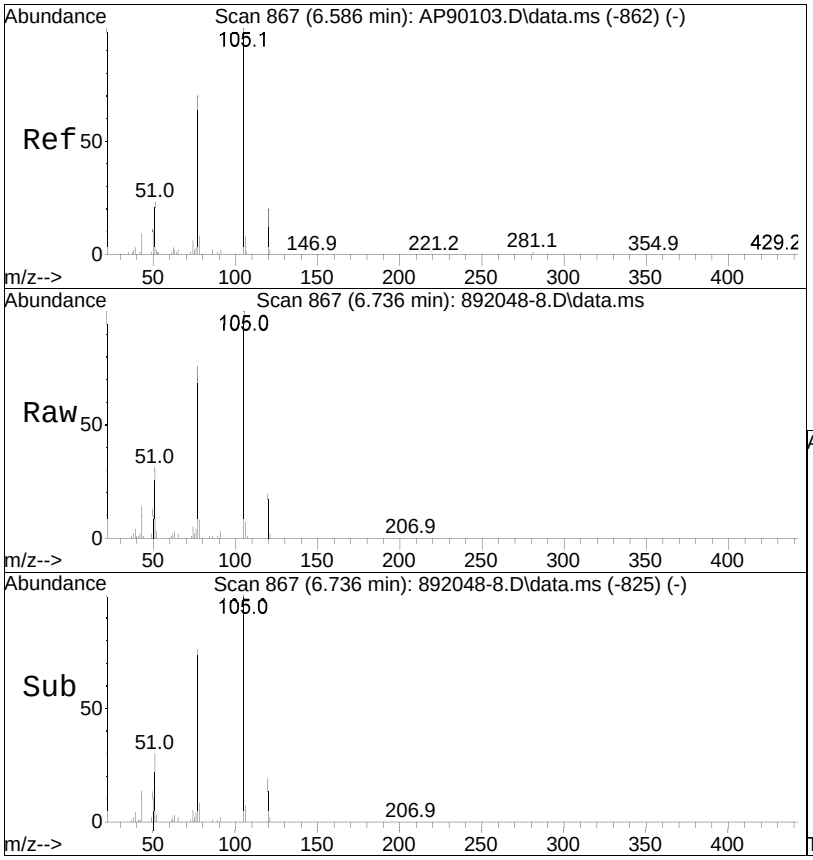


#28
Benzaldehyde
Concen: 4.69 ug/ml
RT: 5.625 min Scan# 678
Delta R.T. -0.000 min
Lab File: 892048-8.D
Acq: 6 Mar 2024 7:15 am

Tgt Ion:105 Resp: 51540

Ion	Ratio	Lower	Upper
105	100		
77	92.6	82.2	123.4

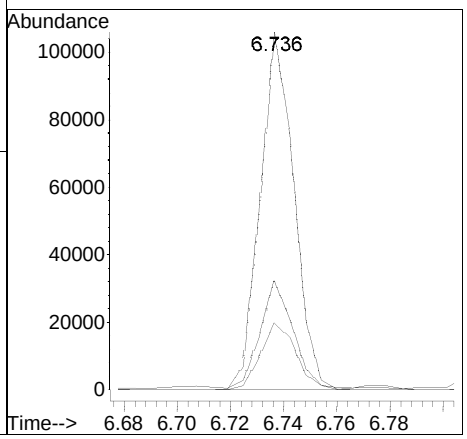


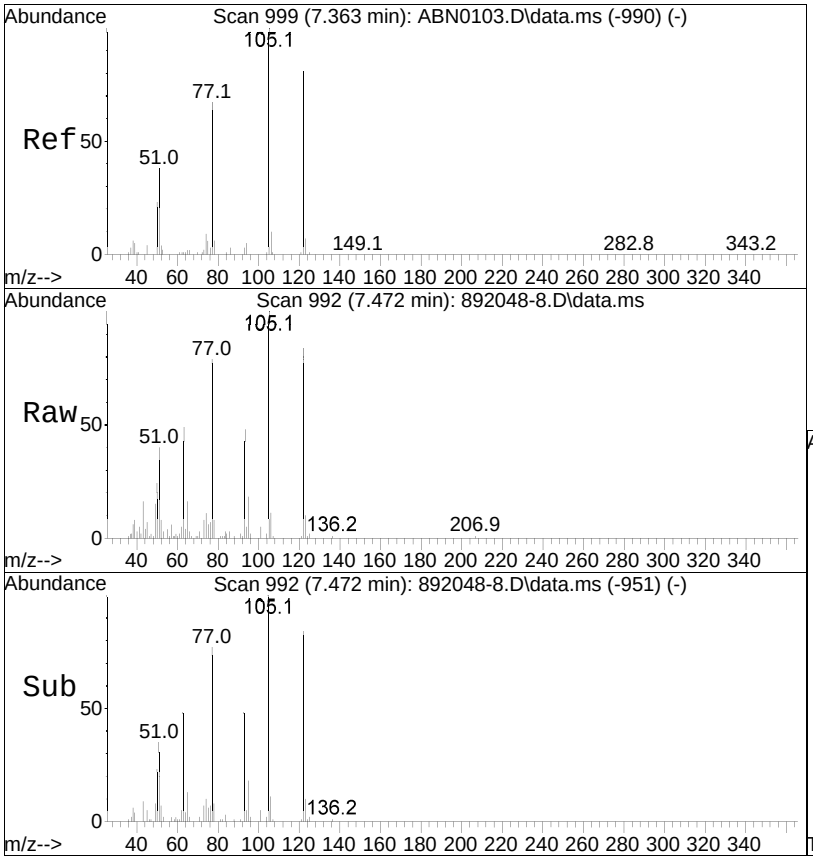


#29
Acetophenone
Concen: 3.89 ug/ml
RT: 6.736 min Scan# 867
Delta R.T. -0.000 min
Lab File: 892048-8.D
Acq: 6 Mar 2024 7:15 am

Tgt Ion:105 Resp: 92003

Ion	Ratio	Lower	Upper
105	100		
120	19.6	20.5	30.7#
51	30.1	34.9	52.3#

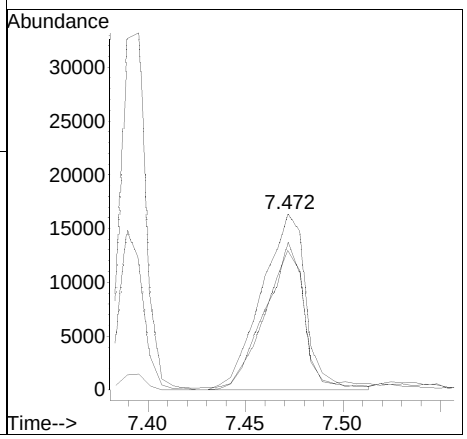


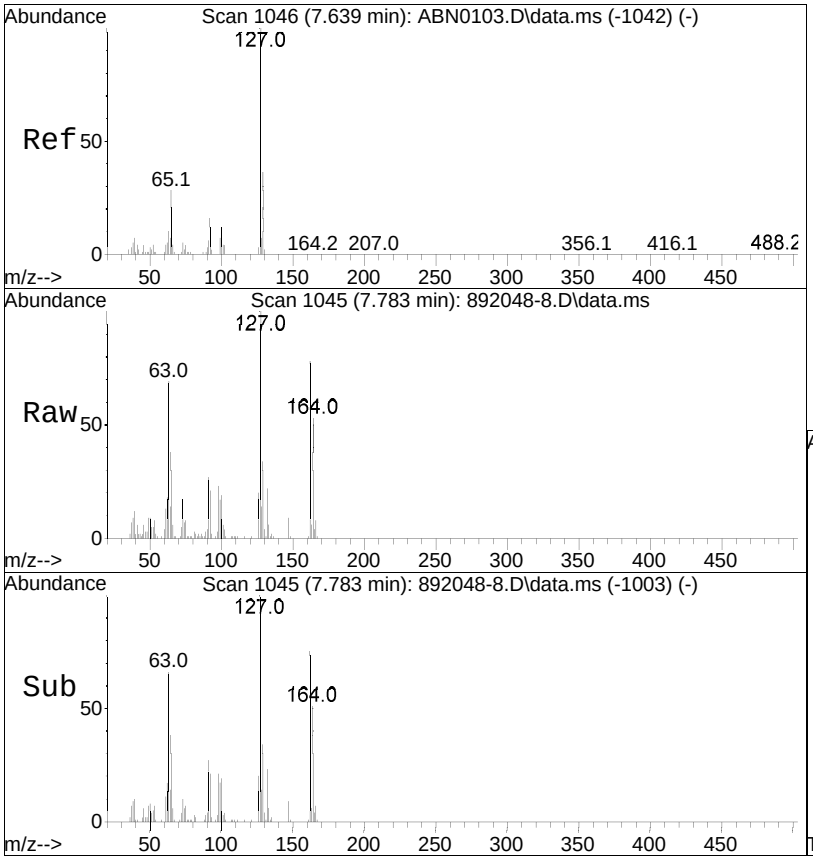


#36
Benzoic Acid
Concen: 3.74 ug/ml
RT: 7.472 min Scan# 992
Delta R.T. -0.006 min
Lab File: 892048-8.D
Acq: 6 Mar 2024 7:15 am

Tgt Ion:105 Resp: 25981

Ion	Ratio	Lower	Upper
105	100		
122	73.9	59.9	89.9
77	72.2	60.1	90.1

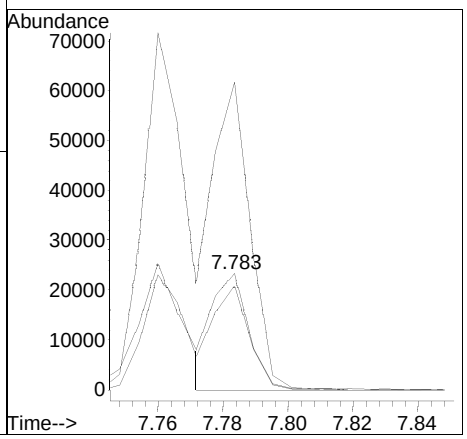


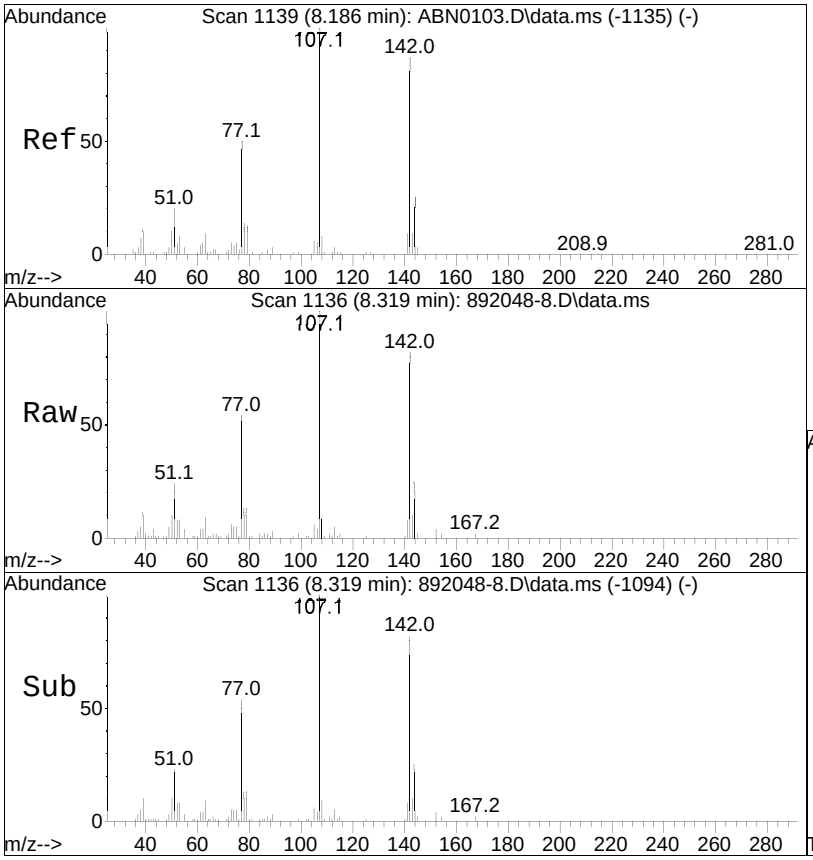


#37
4-Chloroaniline
Concen: 3.16 ug/ml
RT: 7.783 min Scan# 1045
Delta R.T. -0.000 min
Lab File: 892048-8.D
Acq: 6 Mar 2024 7:15 am

Tgt Ion: 65 Resp: 18549

Ion	Ratio	Lower	Upper
65	100		
127	265.3	237.6	356.4
129	87.6	76.3	114.5

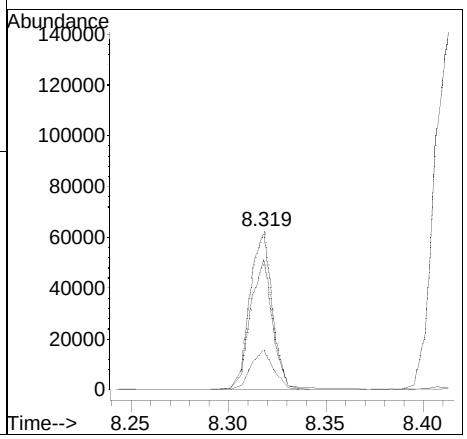


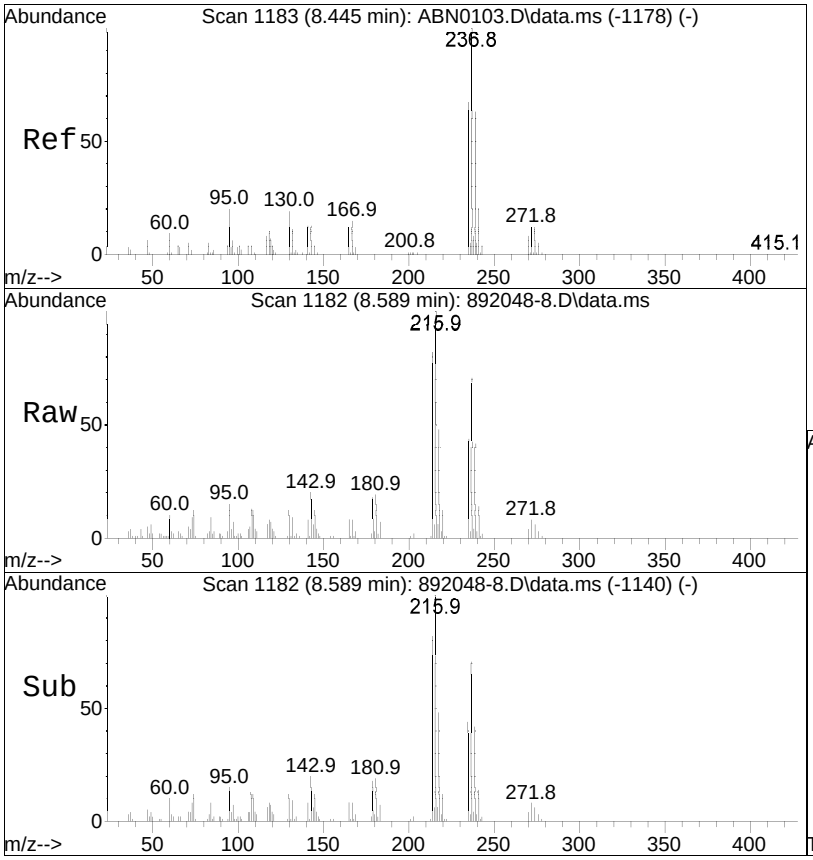


#39
p-Chloro-m-cresol
Concen: 3.87 ug/ml
RT: 8.319 min Scan# 1136
Delta R.T. -0.000 min
Lab File: 892048-8.D
Acq: 6 Mar 2024 7:15 am

Tgt Ion:107 Resp: 50279

Ion	Ratio	Lower	Upper
107	100		
144	24.8	20.9	31.3
142	80.2	66.1	99.1

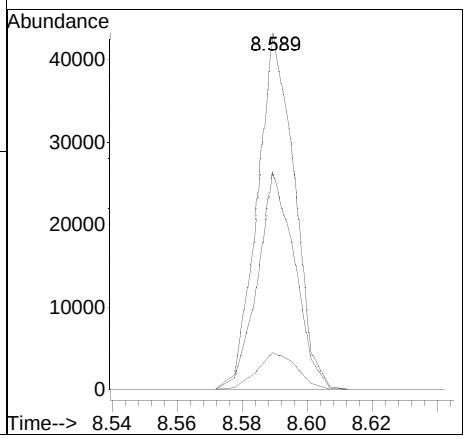


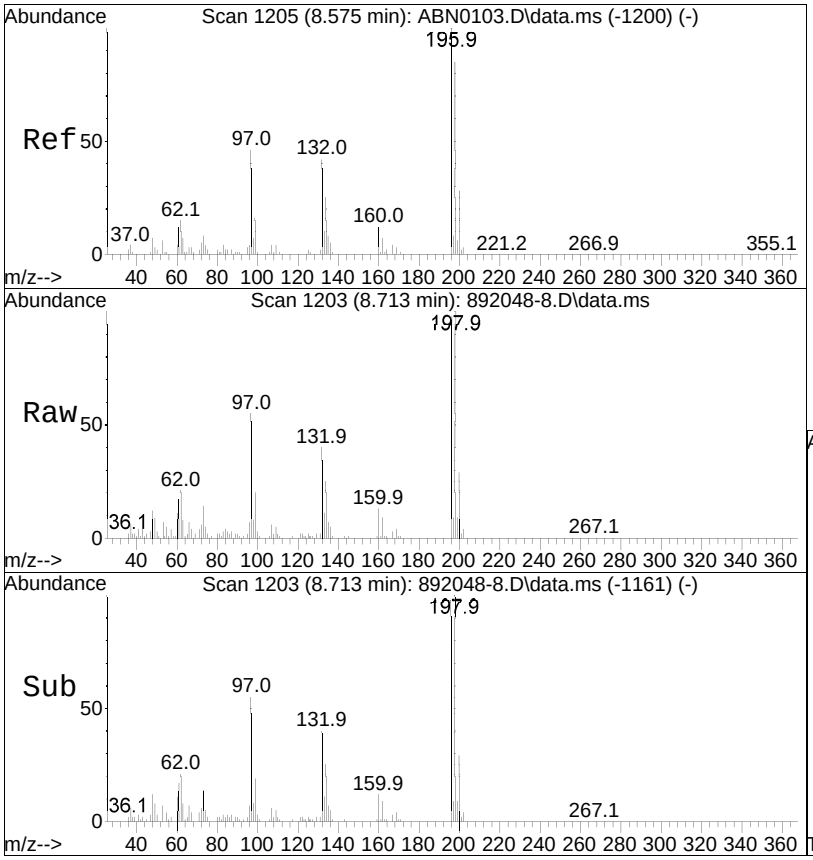


#42
Hexachlorocyclopentadiene
Concen: 3.50 ug/ml
RT: 8.589 min Scan# 1182
Delta R.T. -0.000 min
Lab File: 892048-8.D
Acq: 6 Mar 2024 7:15 am

Tgt Ion:237 Resp: 34131

Ion	Ratio	Lower	Upper
237	100		
235	61.5	49.7	74.5
272	11.1	9.8	14.6

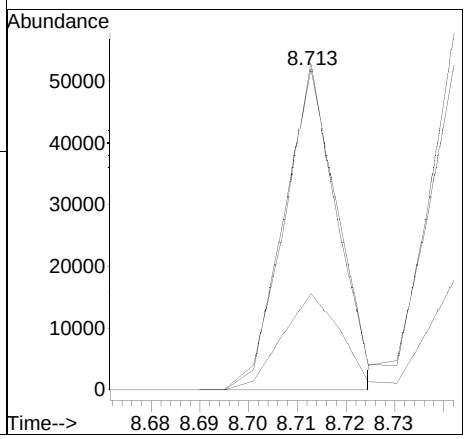


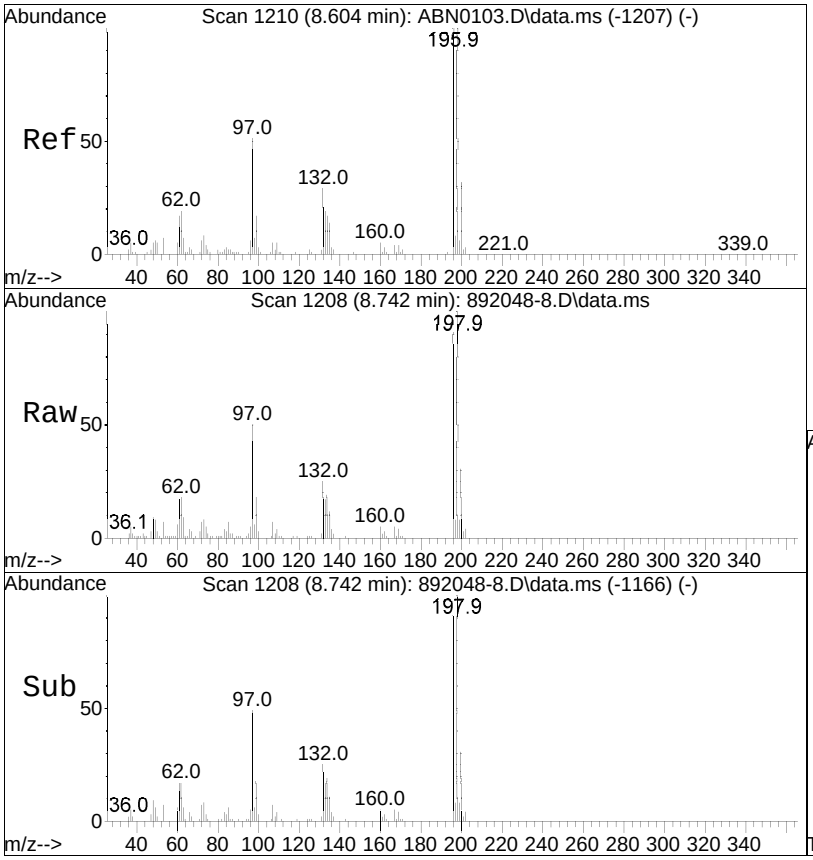


#43
2,4,6-Trichlorophenol
Concen: 4.31 ug/ml
RT: 8.713 min Scan# 1203
Delta R.T. -0.000 min
Lab File: 892048-8.D
Acq: 6 Mar 2024 7:15 am

Tgt Ion:196 Resp: 39998

Ion	Ratio	Lower	Upper
196	100		
198	102.1	77.5	116.3
200	33.5	23.8	35.6

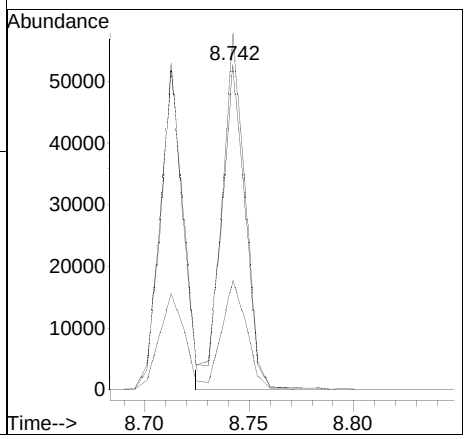


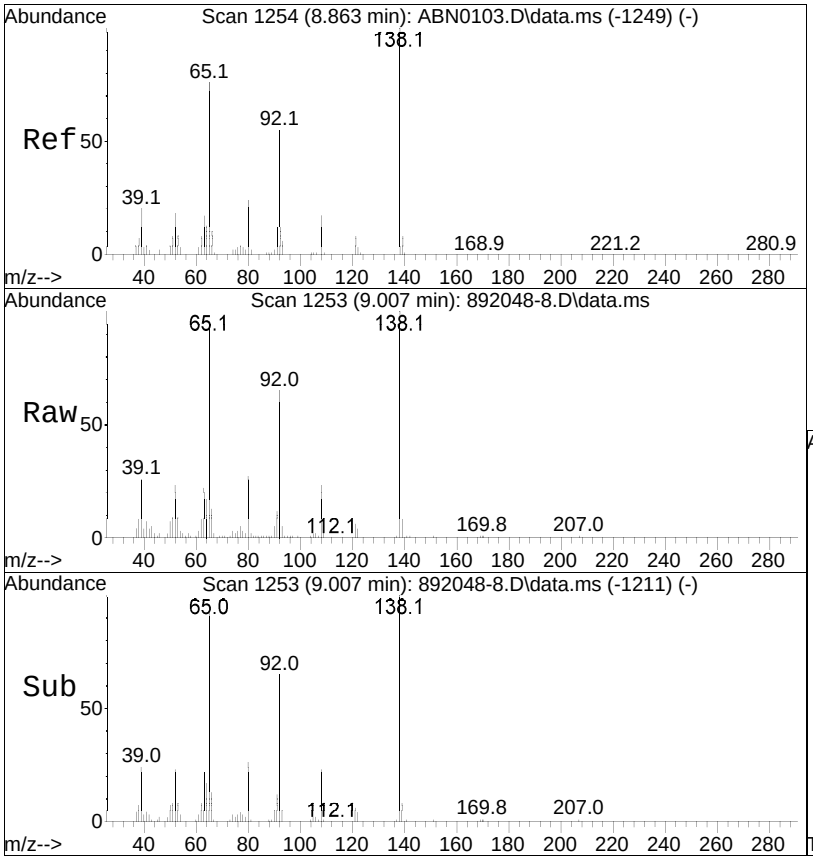


#44
2,4,5-Trichlorophenol
Concen: 4.18 ug/ml
RT: 8.742 min Scan# 1208
Delta R.T. -0.000 min
Lab File: 892048-8.D
Acq: 6 Mar 2024 7:15 am

Tgt Ion:196 Resp: 41753

Ion	Ratio	Lower	Upper
196	100		
200	34.3	25.4	38.0
198	103.7	78.0	117.0

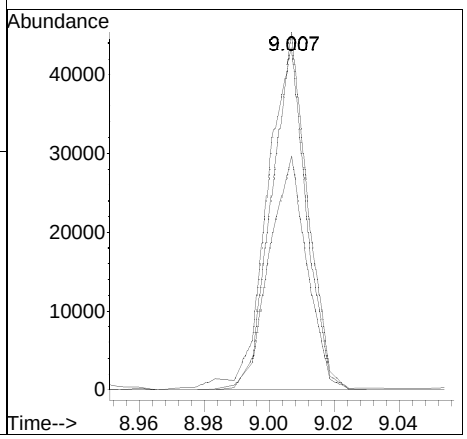


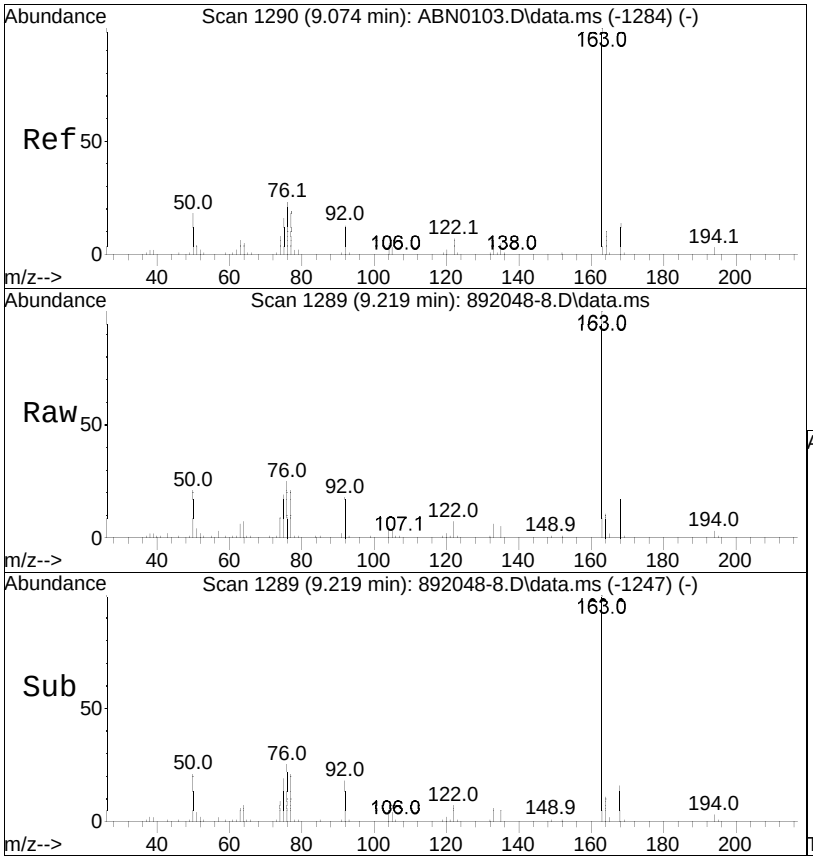


#47
2-Nitroaniline
Concen: 4.24 ug/ml
RT: 9.007 min Scan# 1253
Delta R.T. -0.000 min
Lab File: 892048-8.D
Acq: 6 Mar 2024 7:15 am

Tgt Ion:138 Resp: 34291

Ion	Ratio	Lower	Upper
138	100		
92	69.6	53.5	80.3
65	107.1	86.3	129.5

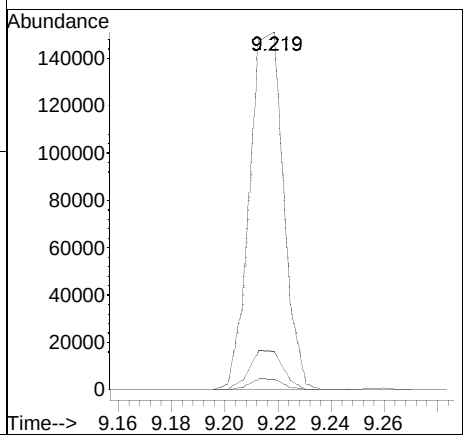


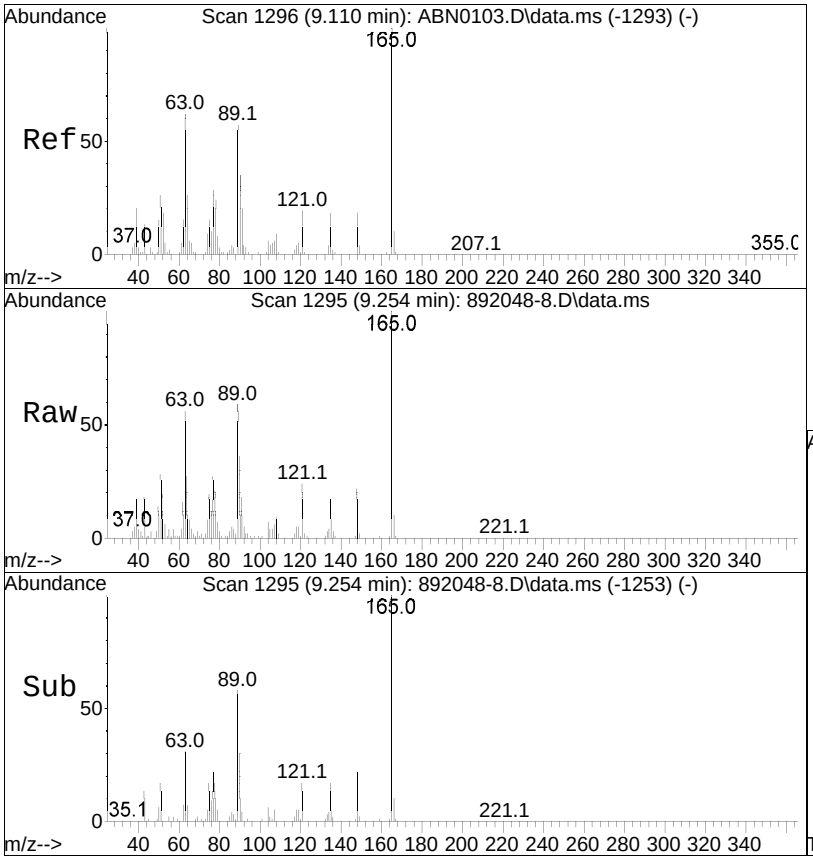


#50
Dimethyl phthalate
Concen: 3.78 ug/ml
RT: 9.219 min Scan# 1289
Delta R.T. -0.000 min
Lab File: 892048-8.D
Acq: 6 Mar 2024 7:15 am

Tgt Ion:163 Resp: 132578

Ion	Ratio	Lower	Upper
163	100		
194	3.2	3.5	5.3#
164	11.1	7.9	11.9

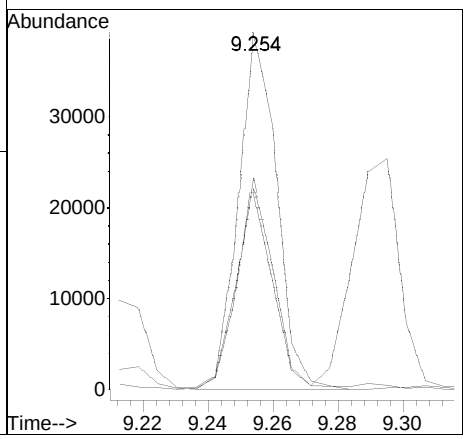


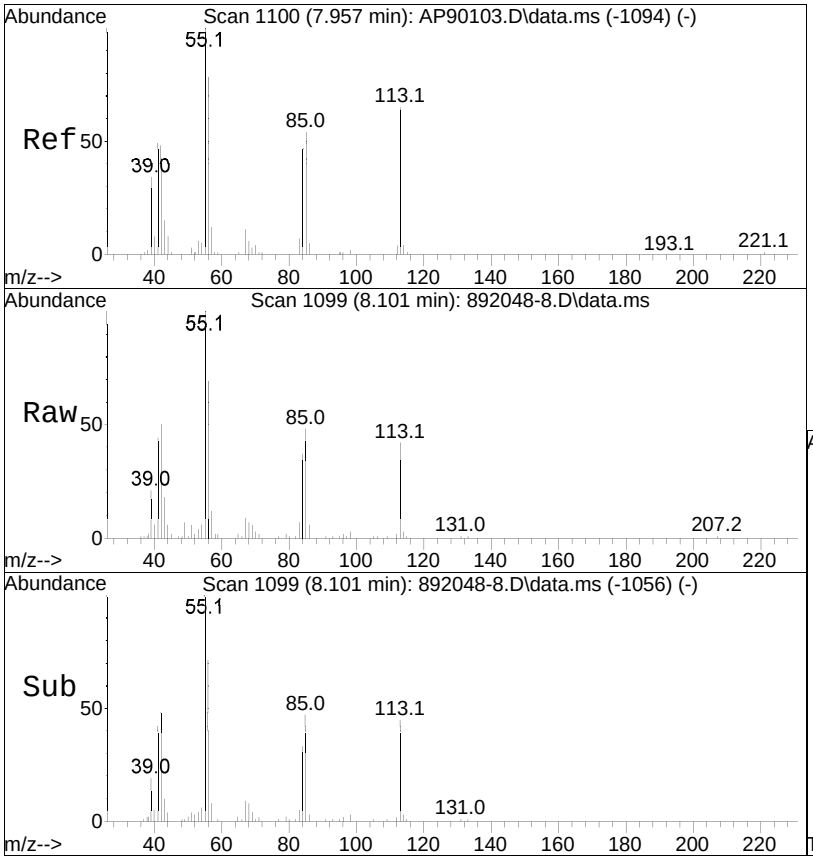


#52
2,6-Dinitrotoluene
Concen: 4.79 ug/ml
RT: 9.254 min Scan# 1295
Delta R.T. -0.000 min
Lab File: 892048-8.D
Acq: 6 Mar 2024 7:15 am

Tgt Ion:165 Resp: 32087

Ion	Ratio	Lower	Upper
165	100		
89	56.3	54.2	81.2
63	53.5	64.2	96.2#

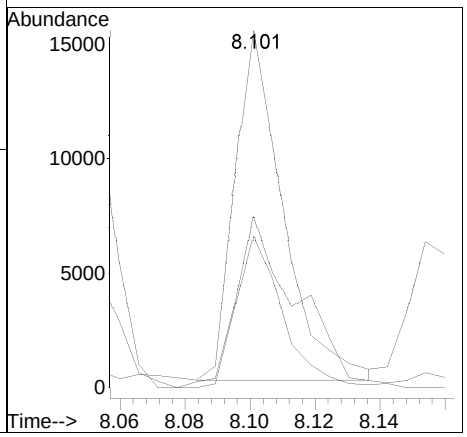


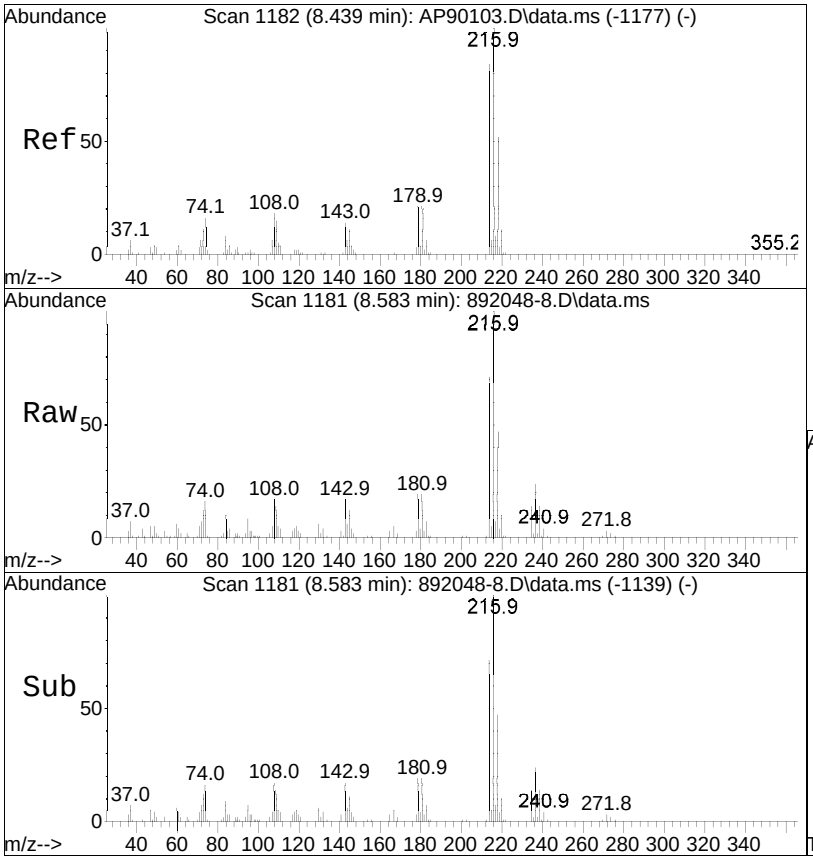


#59
Caprolactam
Concen: 2.39 ug/ml
RT: 8.101 min Scan# 1099
Delta R.T. 0.006 min
Lab File: 892048-8.D
Acq: 6 Mar 2024 7:15 am

Tgt Ion: 55 Resp: 15633

Ion	Ratio	Lower	Upper
55	100		
85	61.9	19.8	29.6#
113	42.4	29.6	44.4

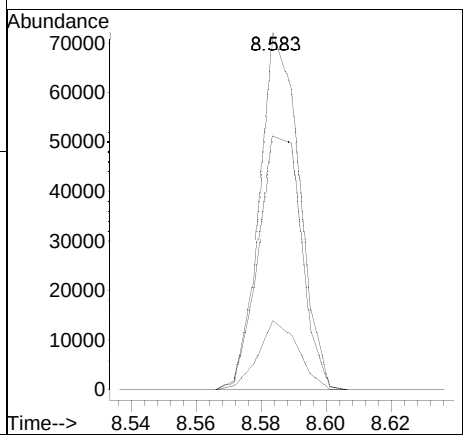


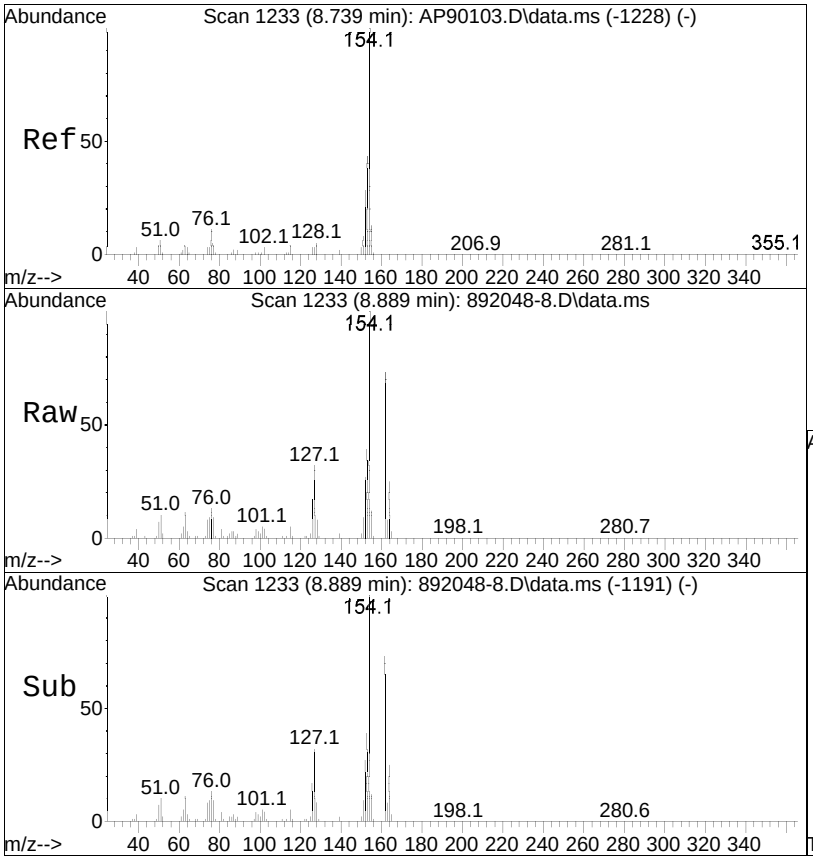


#60
1,2,4,5-Tetrachlorobenzene
Concen: 3.94 ug/ml
RT: 8.583 min Scan# 1181
Delta R.T. -0.000 min
Lab File: 892048-8.D
Acq: 6 Mar 2024 7:15 am

Tgt Ion:216 Resp: 61006

Ion	Ratio	Lower	Upper
216	100		
214	77.7	63.7	95.5
179	19.7	19.0	28.6

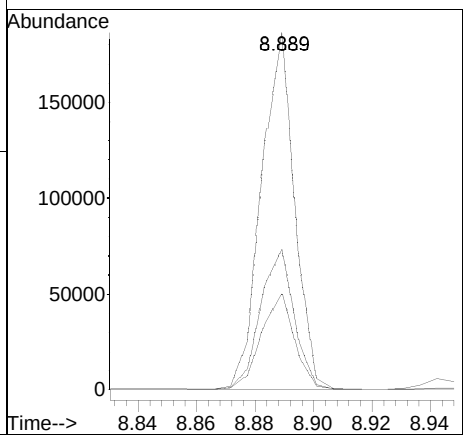


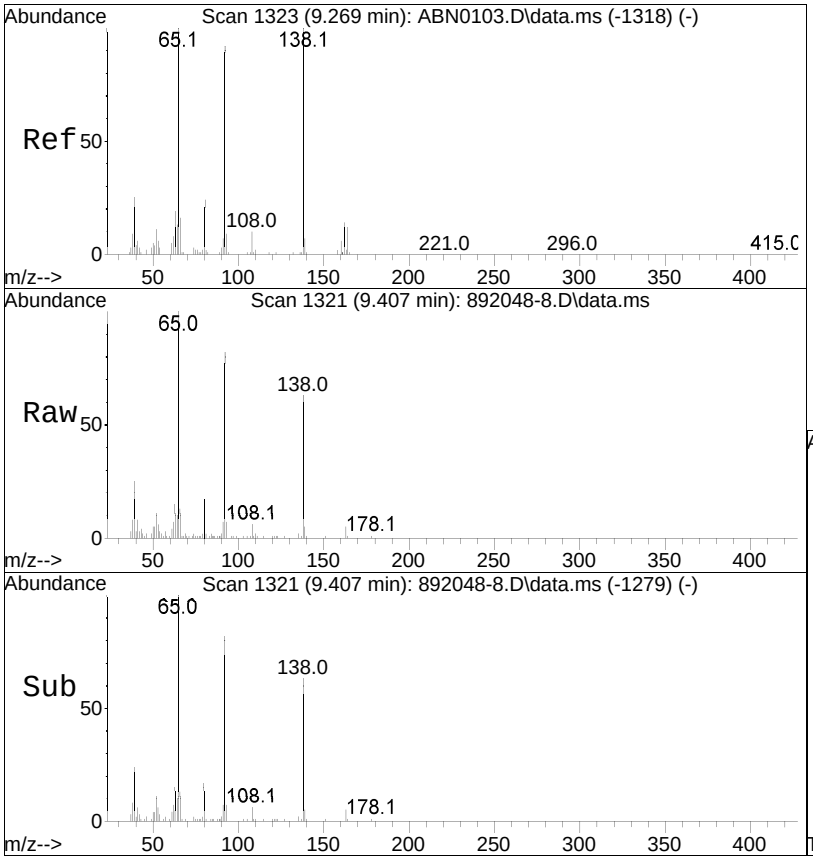


#61
Biphenyl
Concen: 3.83 ug/ml
RT: 8.889 min Scan# 1233
Delta R.T. -0.000 min
Lab File: 892048-8.D
Acq: 6 Mar 2024 7:15 am

Tgt Ion:154 Resp: 145759

Ion	Ratio	Lower	Upper
154	100		
153	40.3	32.3	48.5
152	27.4	22.5	33.7

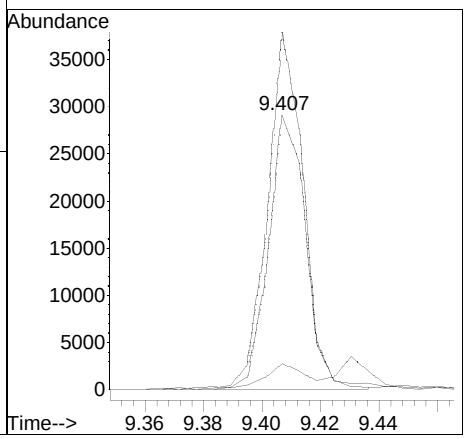


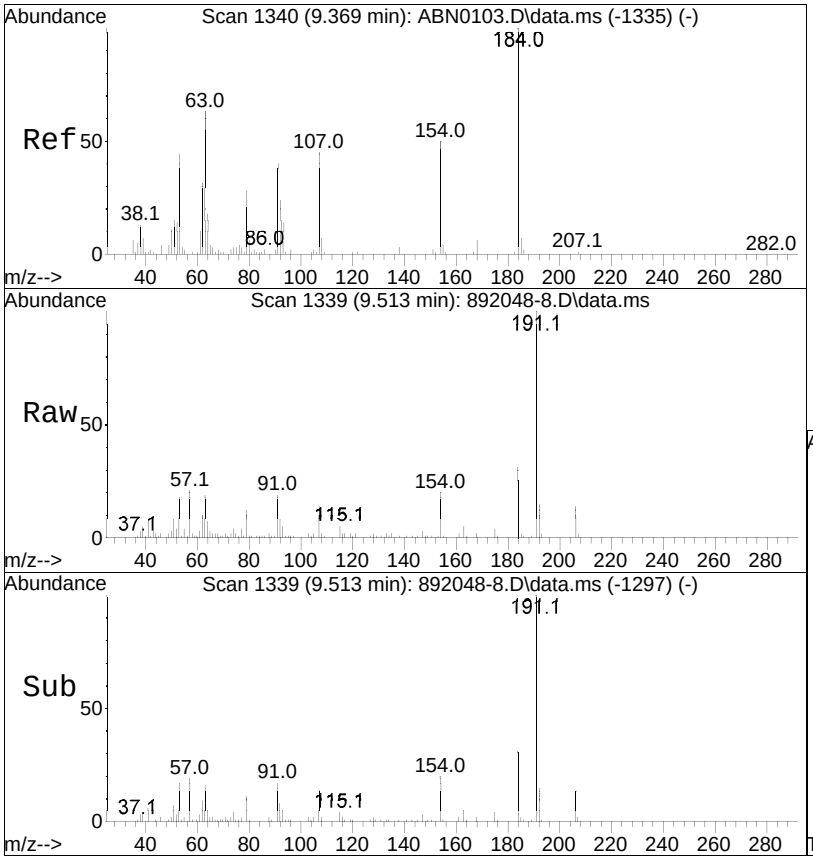


#63
3-Nitroaniline
Concen: 3.26 ug/ml
RT: 9.407 min Scan# 1321
Delta R.T. -0.000 min
Lab File: 892048-8.D
Acq: 6 Mar 2024 7:15 am

Tgt Ion:138 Resp: 25404

Ion	Ratio	Lower	Upper
138	100		
92	127.8	93.4	140.2
108	11.1	9.5	14.3

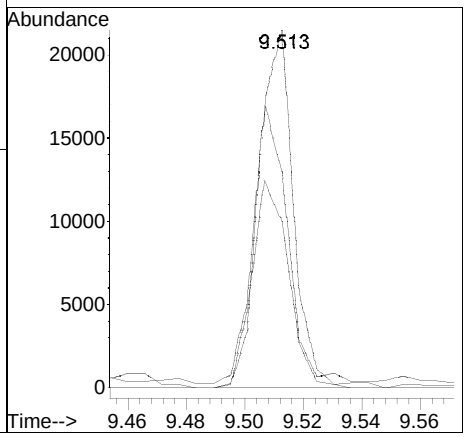


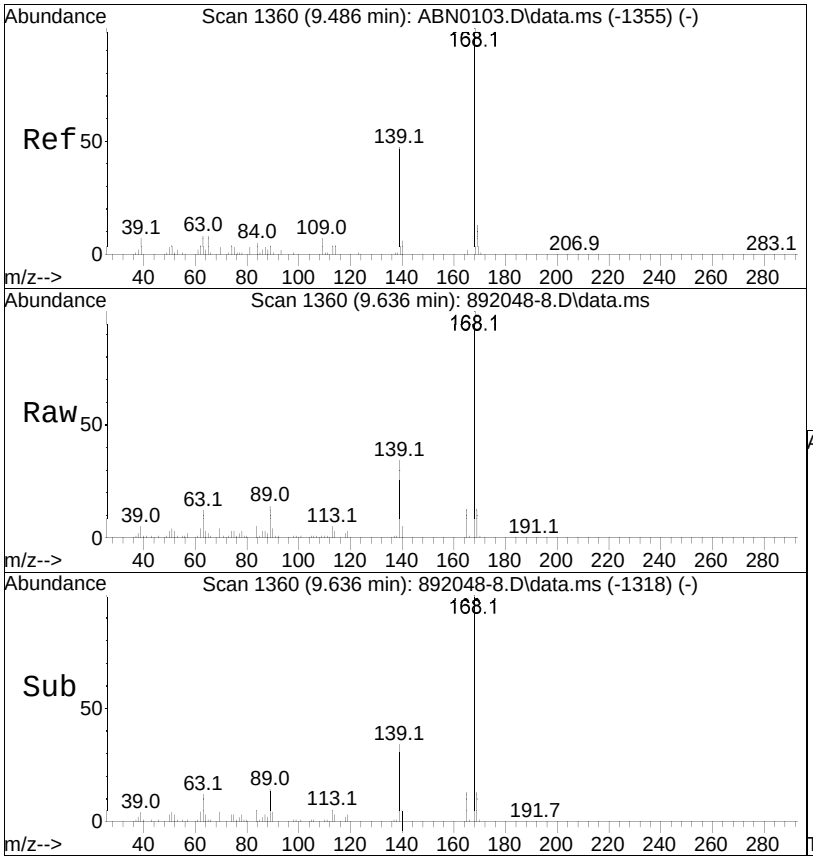


#65
2,4-Dinitrophenol
Concen: 5.06 ug/ml
RT: 9.513 min Scan# 1339
Delta R.T. -0.000 min
Lab File: 892048-8.D
Acq: 6 Mar 2024 7:15 am

Tgt Ion:184 Resp: 17390

Ion	Ratio	Lower	Upper
184	100		
107	62.8	37.7	56.5#
91	78.7	46.3	69.5#

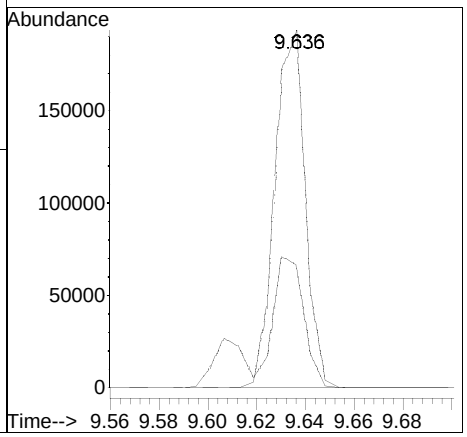


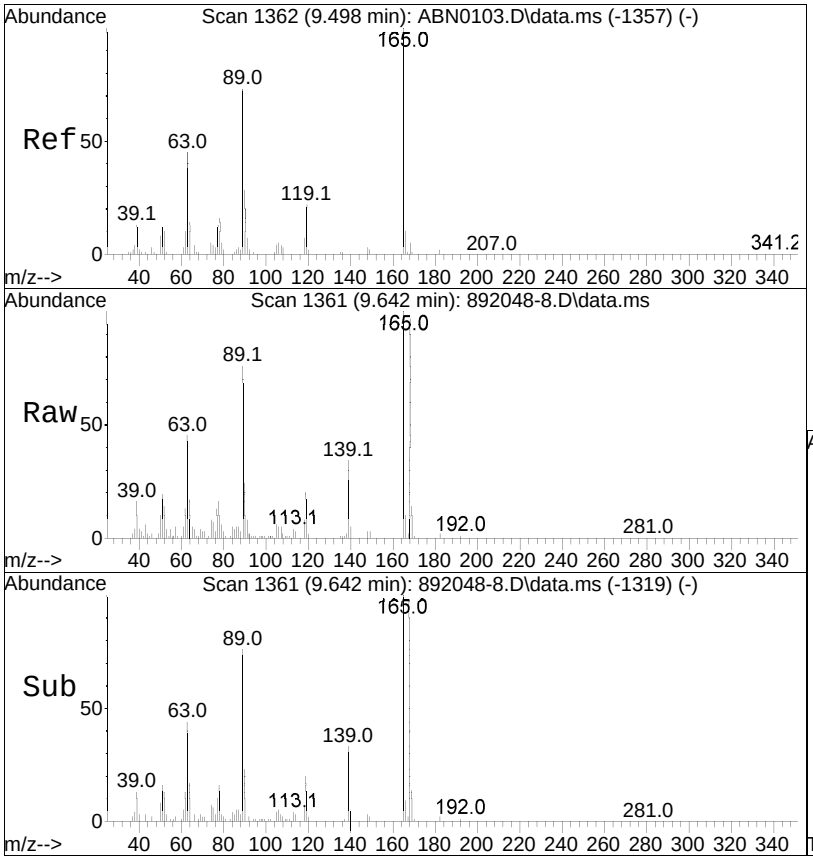


#66
Dibenzofuran
Concen: 3.59 ug/ml
RT: 9.636 min Scan# 1360
Delta R.T. -0.000 min
Lab File: 892048-8.D
Acq: 6 Mar 2024 7:15 am

Tgt Ion:168 Resp: 165287

Ion	Ratio	Lower	Upper
168	100		
139	37.2	31.4	47.2

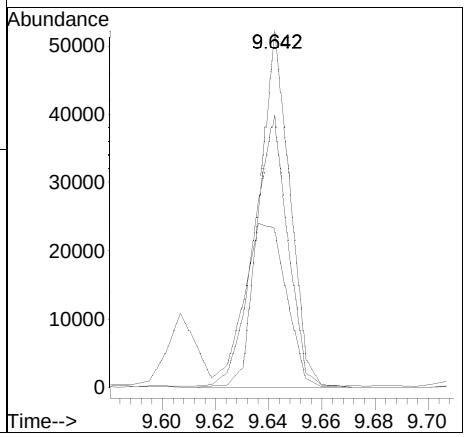


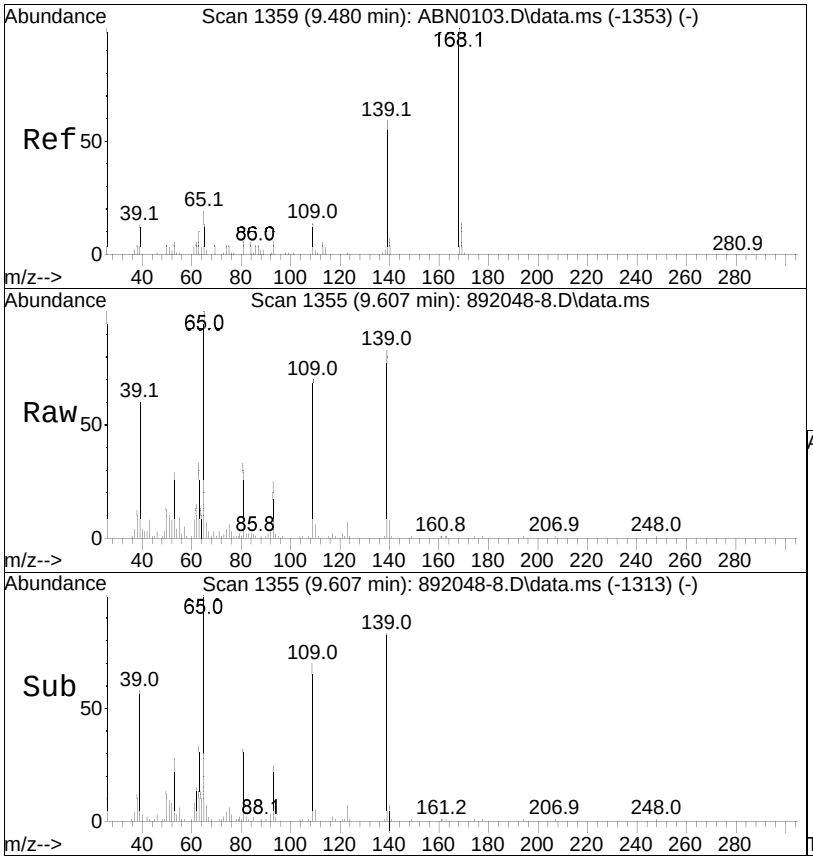


#67
2,4-Dinitrotoluene
Concen: 4.21 ug/ml
RT: 9.642 min Scan# 1361
Delta R.T. -0.000 min
Lab File: 892048-8.D
Acq: 6 Mar 2024 7:15 am

Tgt Ion:165 Resp: 40750

Ion	Ratio	Lower	Upper
165	100		
89	89.0	72.0	108.0
63	64.8	52.7	79.1

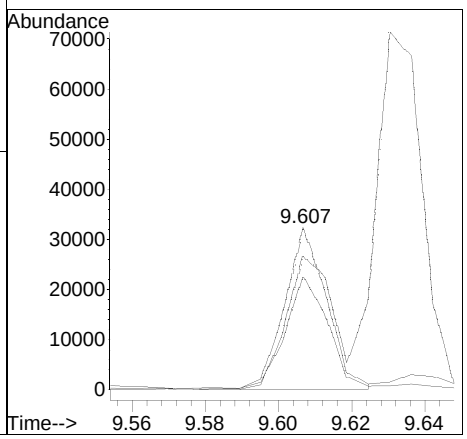


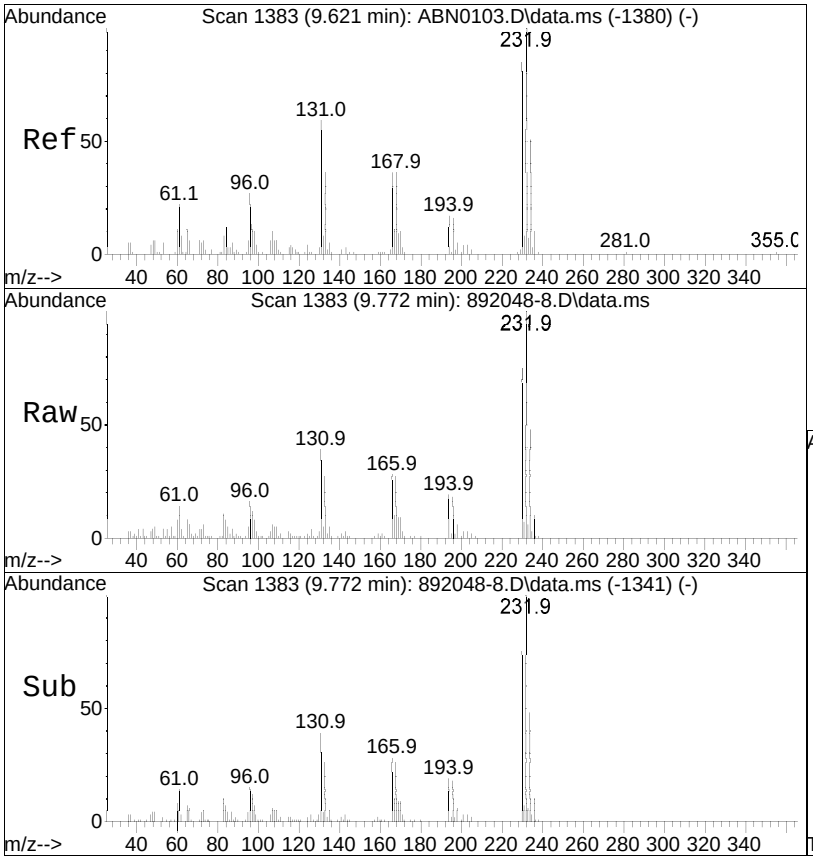


#68
4-Nitrophenol
Concen: 3.64 ug/ml
RT: 9.607 min Scan# 1355
Delta R.T. -0.000 min
Lab File: 892048-8.D
Acq: 6 Mar 2024 7:15 am

Tgt Ion: 65 Resp: 25930

Ion	Ratio	Lower	Upper
65	100		
109	72.7	47.4	71.2#
139	90.9	76.6	115.0

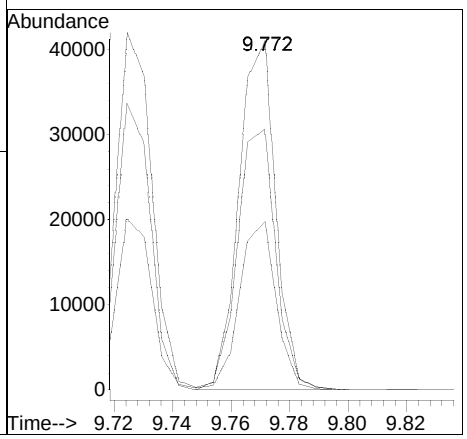


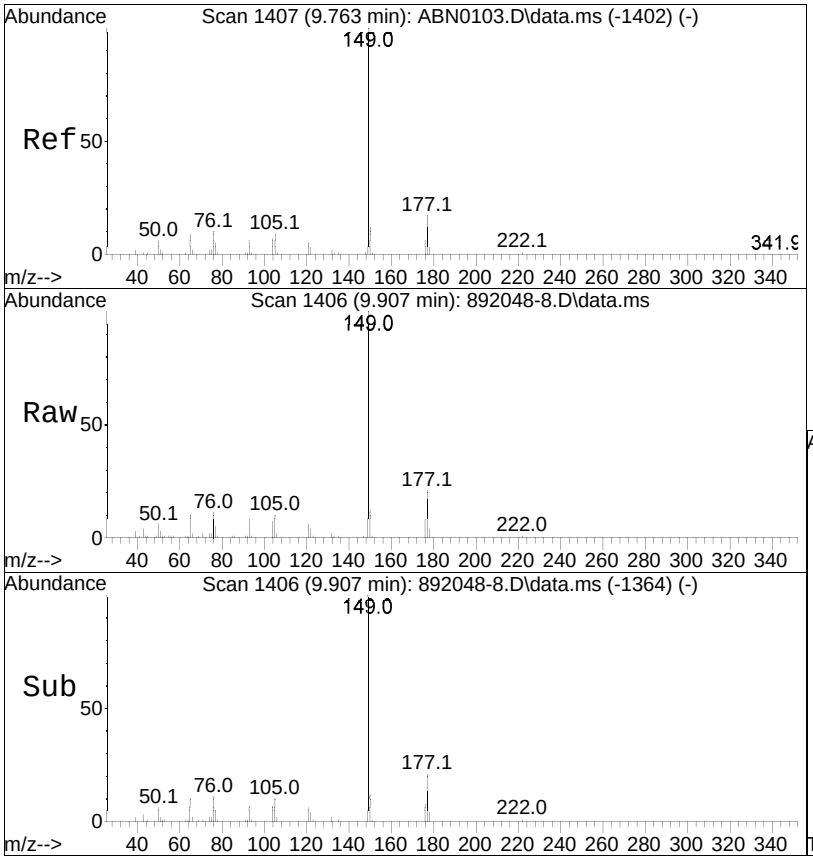


#70
2,3,4,6-Tetrachlorophenol
Concen: 3.92 ug/ml
RT: 9.772 min Scan# 1383
Delta R.T. -0.000 min
Lab File: 892048-8.D
Acq: 6 Mar 2024 7:15 am

Tgt Ion:232 Resp: 36002

Ion	Ratio	Lower	Upper
232	100		
230	77.6	61.8	92.8
234	48.0	36.2	54.2

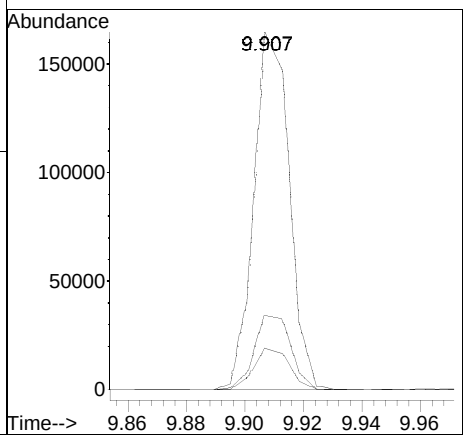


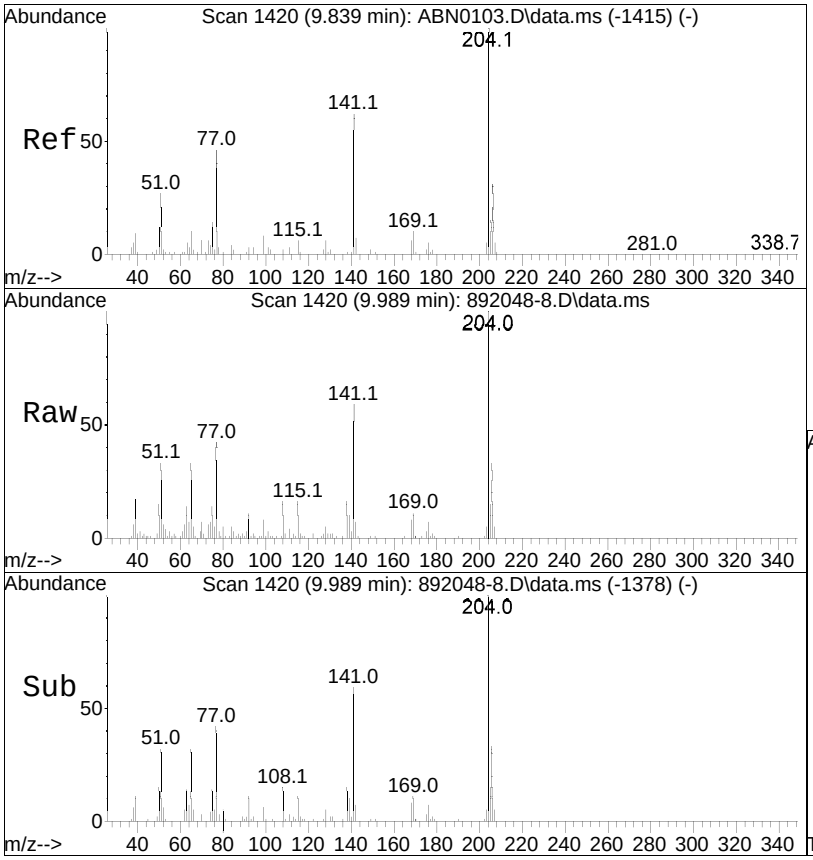


#71
Diethyl phthalate
Concen: 3.55 ug/ml
RT: 9.907 min Scan# 1406
Delta R.T. -0.000 min
Lab File: 892048-8.D
Acq: 6 Mar 2024 7:15 am

Tgt Ion:149 Resp: 136963

Ion	Ratio	Lower	Upper
149	100		
177	21.8	16.1	24.1
150	12.0	9.4	14.2

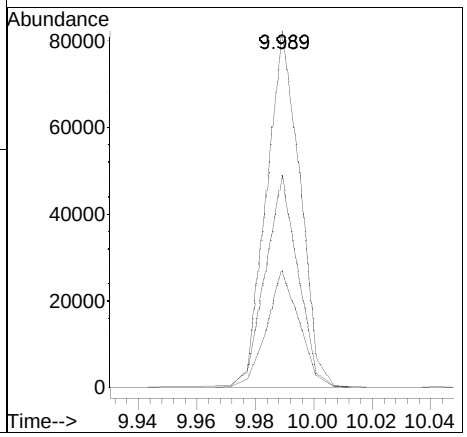


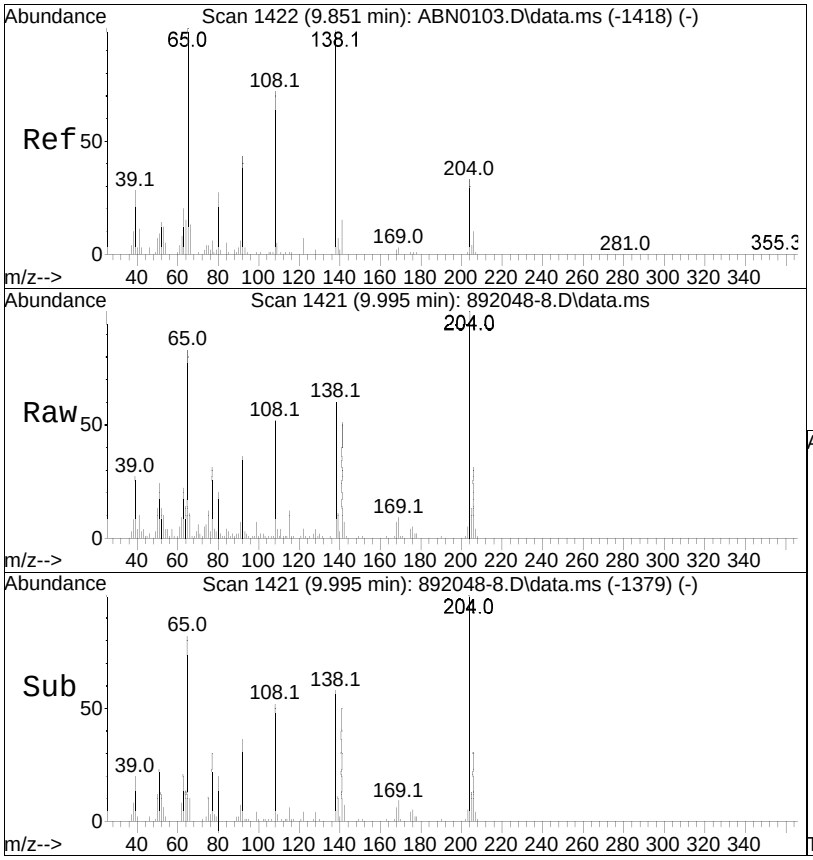


#73
4-Chlorophenyl phenyl ether
Concen: 3.74 ug/ml
RT: 9.989 min Scan# 1420
Delta R.T. -0.000 min
Lab File: 892048-8.D
Acq: 6 Mar 2024 7:15 am

Tgt Ion:204 Resp: 64942

Ion	Ratio	Lower	Upper
204	100		
206	32.3	25.8	38.6
141	58.8	53.6	80.4

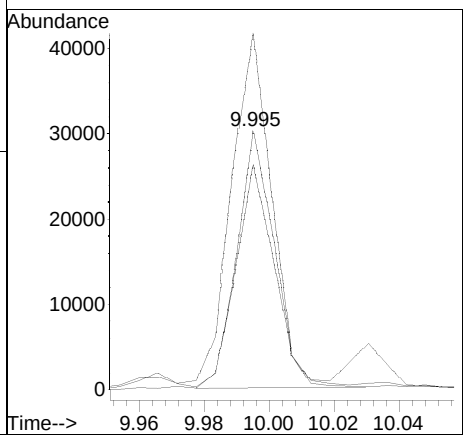


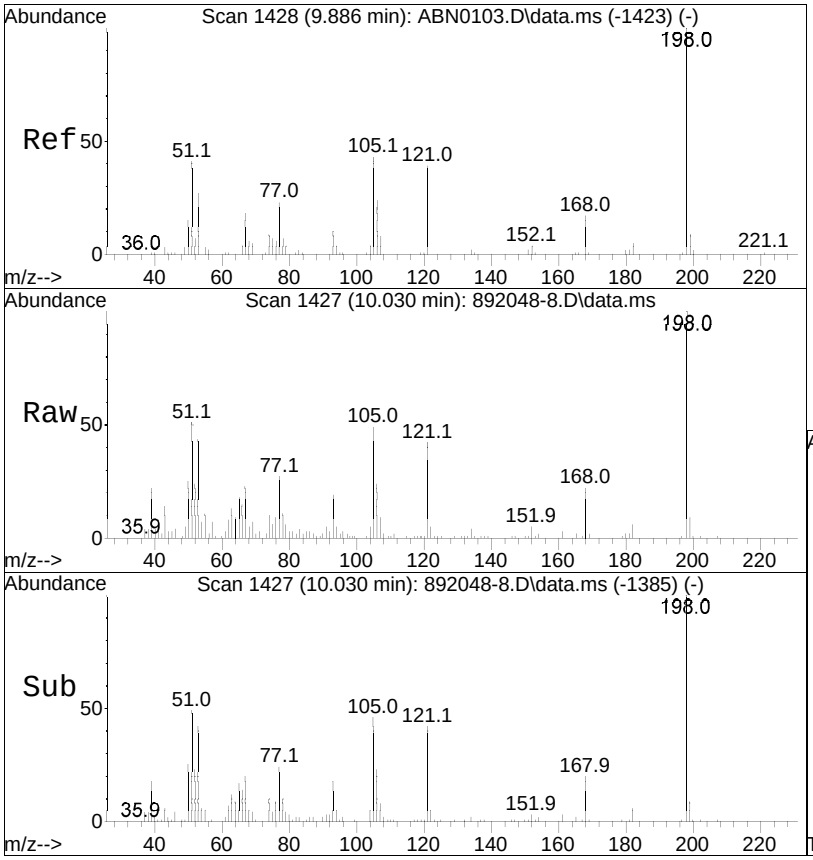


#74
4-Nitroaniline
Concen: 3.06 ug/ml
RT: 9.995 min Scan# 1421
Delta R.T. -0.000 min
Lab File: 892048-8.D
Acq: 6 Mar 2024 7:15 am

Tgt Ion:138 Resp: 24098

Ion	Ratio	Lower	Upper
138	100		
108	93.7	52.1	78.1#
65	156.3	115.0	172.6

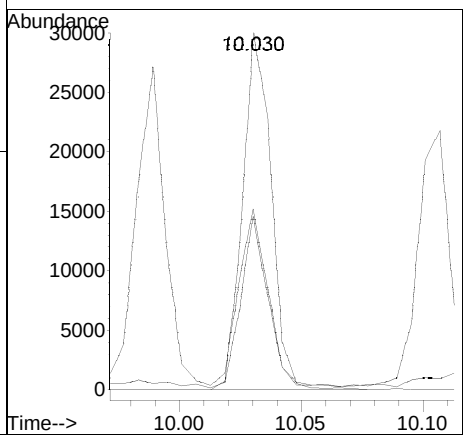


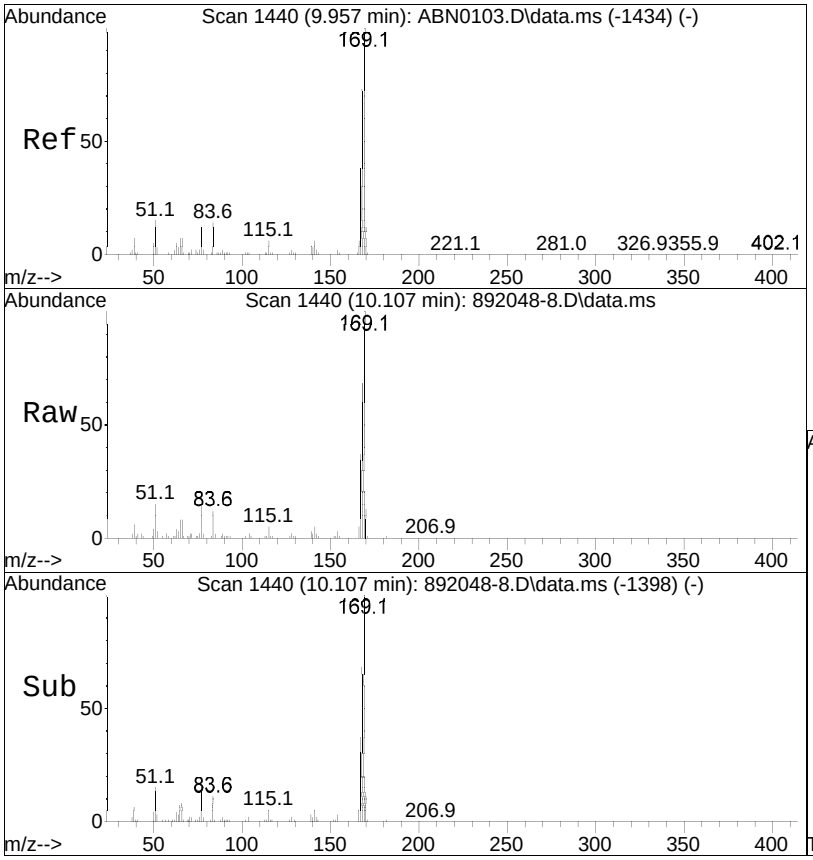


#75
4,6-Dinitro-o-cresol
Concen: 5.37 ug/ml
RT: 10.030 min Scan# 1427
Delta R.T. -0.000 min
Lab File: 892048-8.D
Acq: 6 Mar 2024 7:15 am

Tgt Ion:198 Resp: 24614

Ion	Ratio	Lower	Upper
198	100		
51	50.8	76.0	114.0#
105	47.5	45.6	68.4

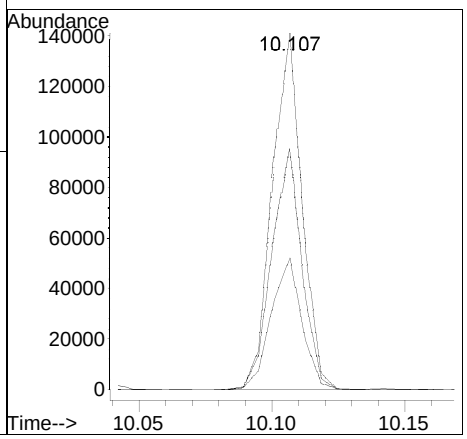


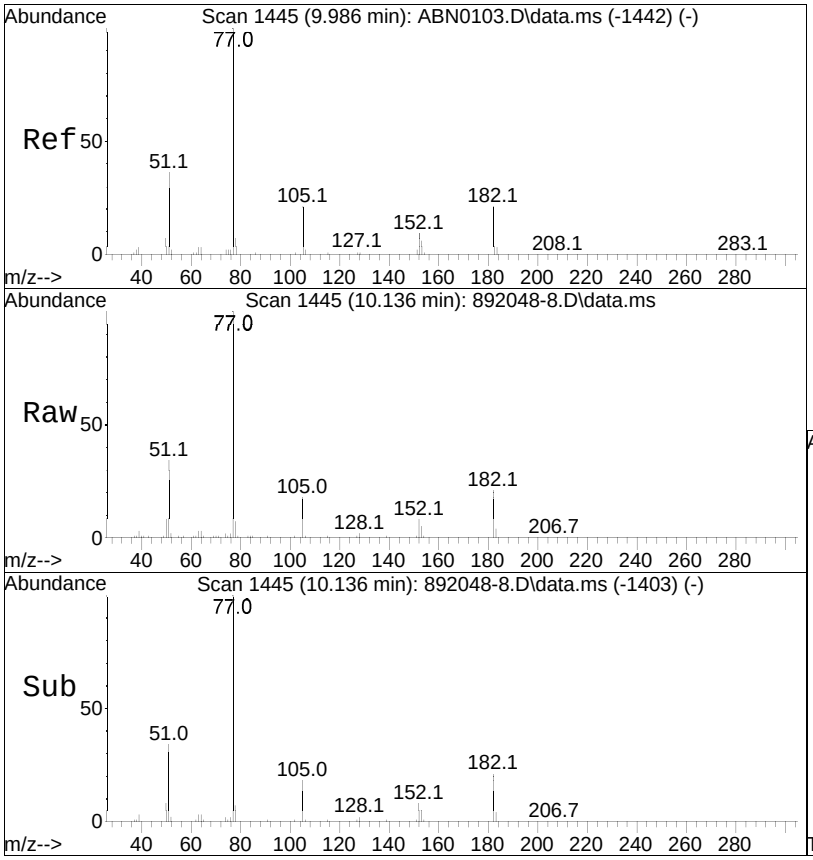


#76
NDPA/DPA
Concen: 3.58 ug/ml
RT: 10.107 min Scan# 1440
Delta R.T. -0.000 min
Lab File: 892048-8.D
Acq: 6 Mar 2024 7:15 am

Tgt Ion:169 Resp: 109558

Ion	Ratio	Lower	Upper
169	100		
168	68.5	54.0	81.0
167	38.4	28.6	42.8

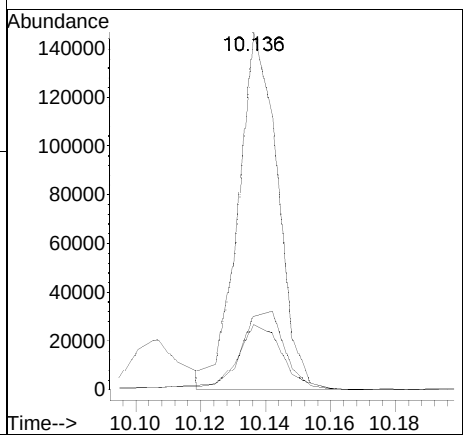


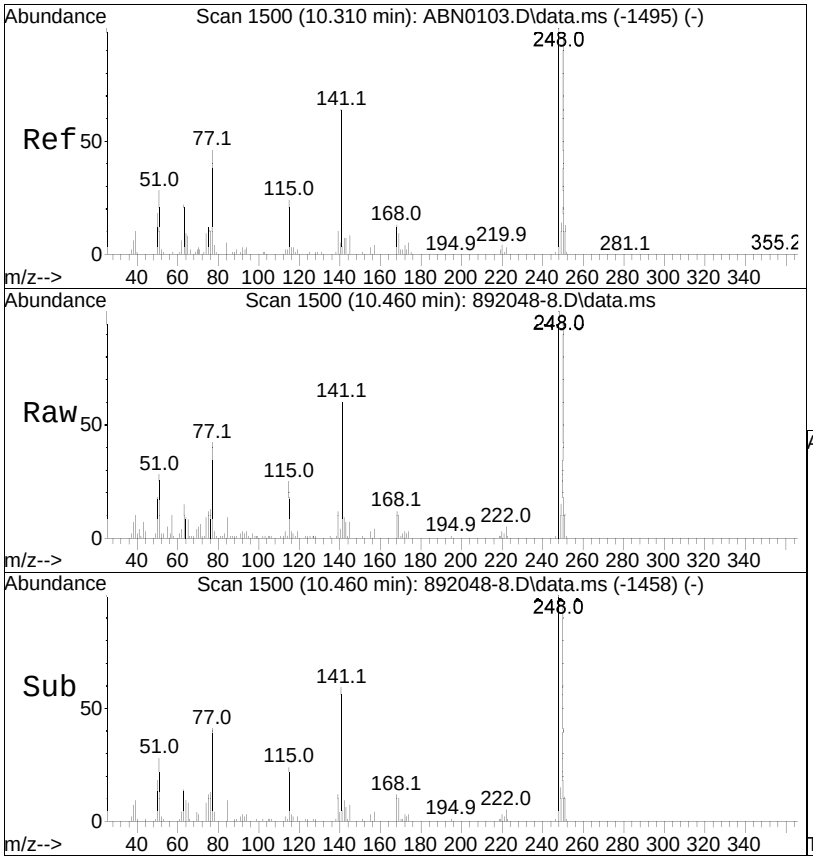


#77
Azobenzene
Concen: 3.38 ug/ml
RT: 10.136 min Scan# 1445
Delta R.T. -0.000 min
Lab File: 892048-8.D
Acq: 6 Mar 2024 7:15 am

Tgt Ion: 77 Resp: 121457

Ion	Ratio	Lower	Upper
77	100		
182	26.1	17.4	26.2
105	23.3	15.4	23.2#

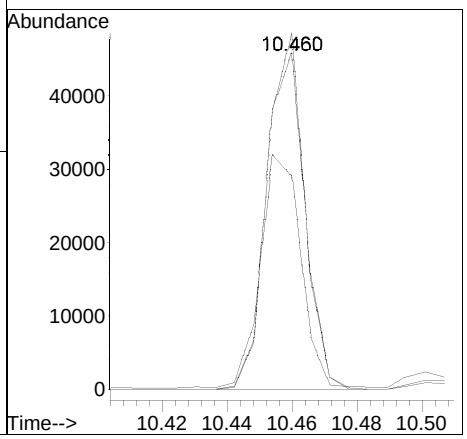


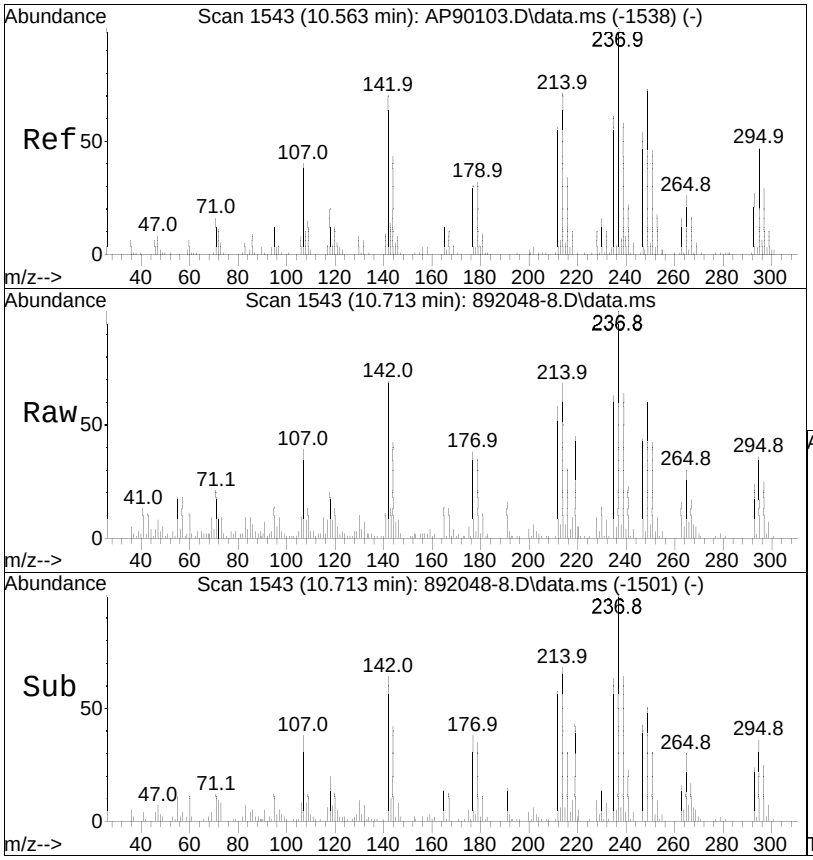


#79
4-Bromophenyl phenyl ether
Concen: 3.84 ug/ml
RT: 10.460 min Scan# 1500
Delta R.T. -0.000 min
Lab File: 892048-8.D
Acq: 6 Mar 2024 7:15 am

Tgt Ion:248 Resp: 38875

Ion	Ratio	Lower	Upper
248	100		
141	71.4	76.6	114.8#
250	97.9	77.3	115.9

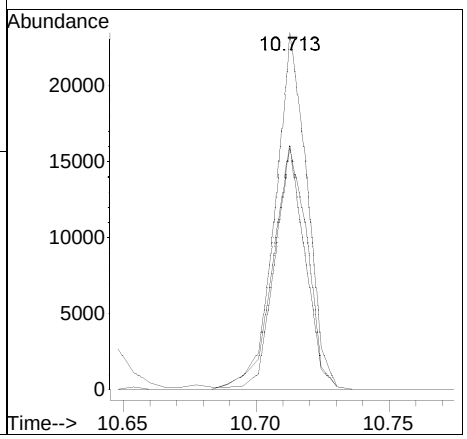


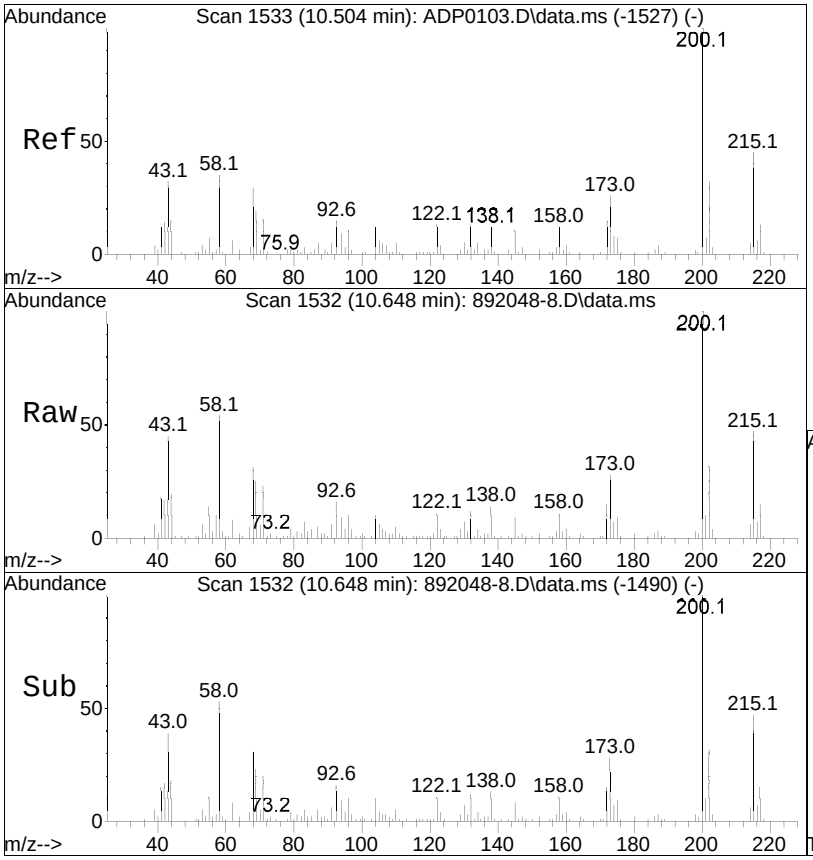


#84
Pentachloronitrobenzene
Concen: 4.33 ug/ml
RT: 10.713 min Scan# 1543
Delta R.T. -0.000 min
Lab File: 892048-8.D
Acq: 6 Mar 2024 7:15 am

Tgt Ion:237 Resp: 19636

Ion	Ratio	Lower	Upper
237	100		
142	68.9	77.0	115.4#
214	68.3	58.2	87.4

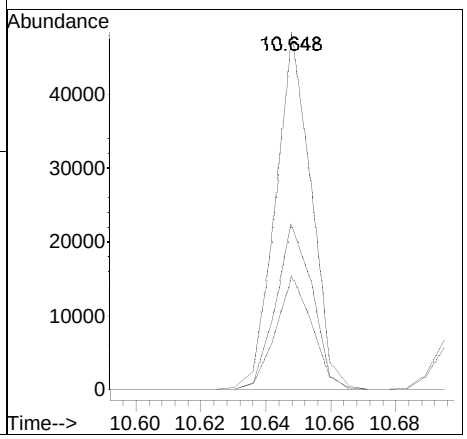


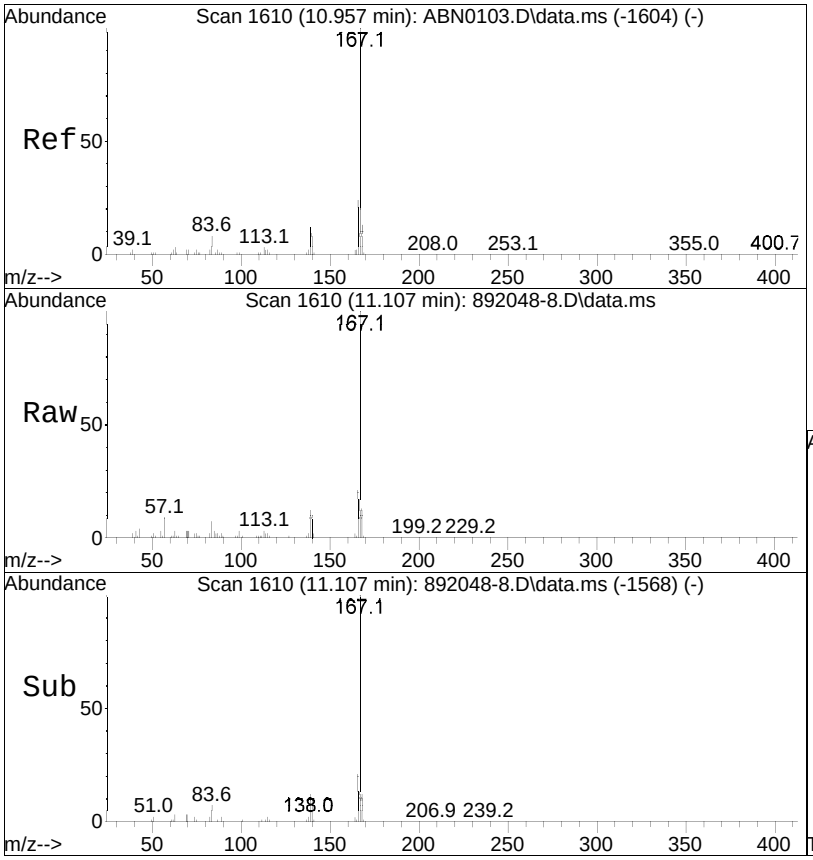


#86
Atrazine
Concen: 3.90 ug/ml
RT: 10.648 min Scan# 1532
Delta R.T. -0.000 min
Lab File: 892048-8.D
Acq: 6 Mar 2024 7:15 am

Tgt Ion:200 Resp: 36621

Ion	Ratio	Lower	Upper
200	100		
202	32.8	25.8	38.6
215	47.7	40.2	60.4

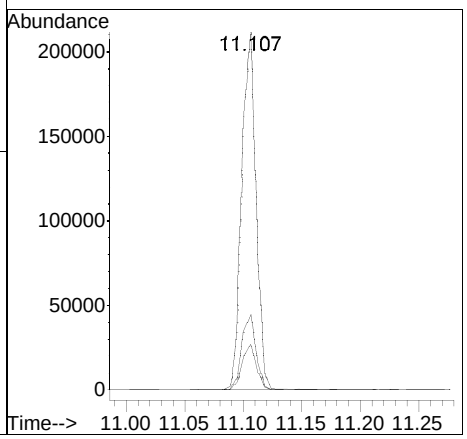


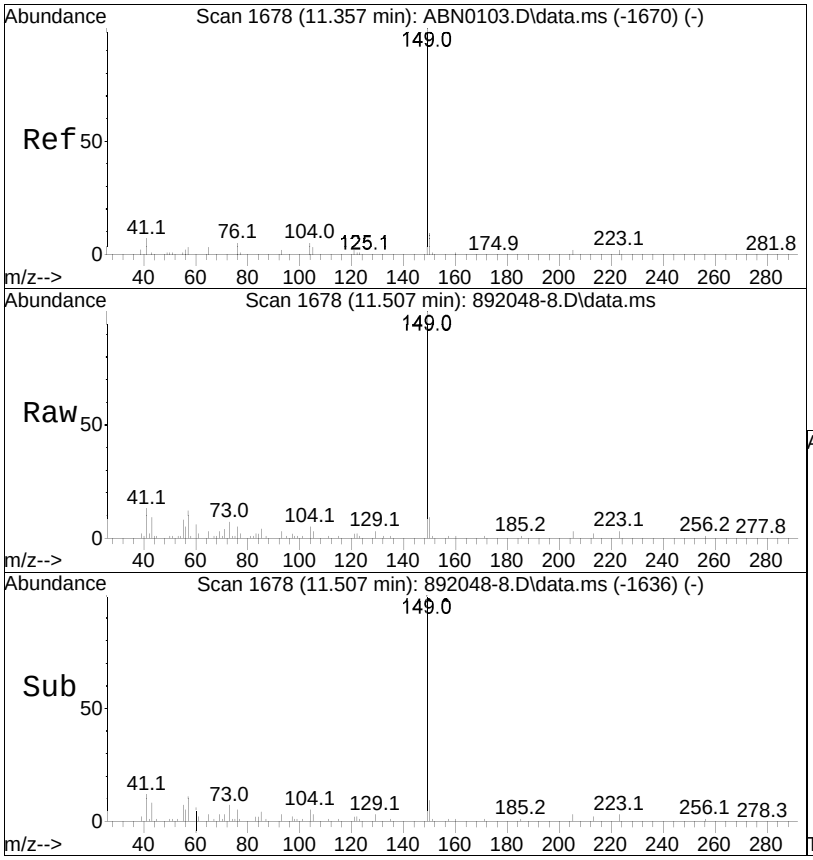


#90
Carbazole
Concen: 3.40 ug/ml
RT: 11.107 min Scan# 1610
Delta R.T. -0.000 min
Lab File: 892048-8.D
Acq: 6 Mar 2024 7:15 am

Tgt Ion:167 Resp: 176966

Ion	Ratio	Lower	Upper
167	100		
168	13.0	10.6	15.8
166	21.3	17.4	26.0

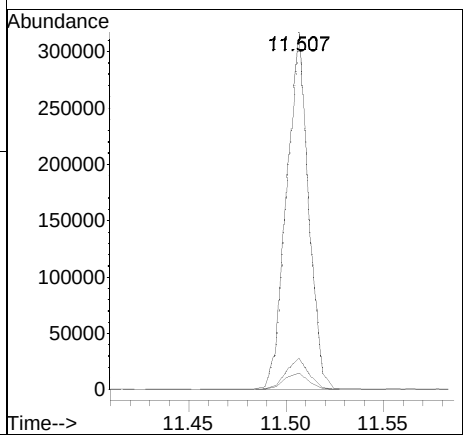


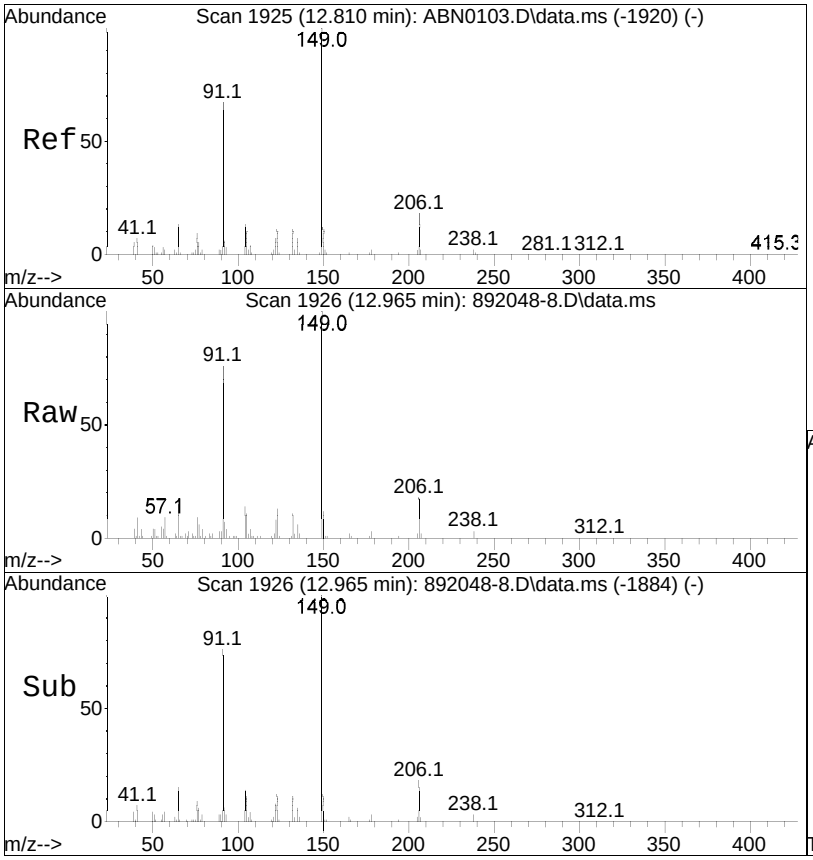


#91
Di-n-butylphthalate
Concen: 3.67 ug/ml
RT: 11.507 min Scan# 1678
Delta R.T. -0.000 min
Lab File: 892048-8.D
Acq: 6 Mar 2024 7:15 am

Tgt Ion:149 Resp: 244199

Ion	Ratio	Lower	Upper
149	100		
150	9.1	7.0	10.6
104	5.0	4.5	6.7

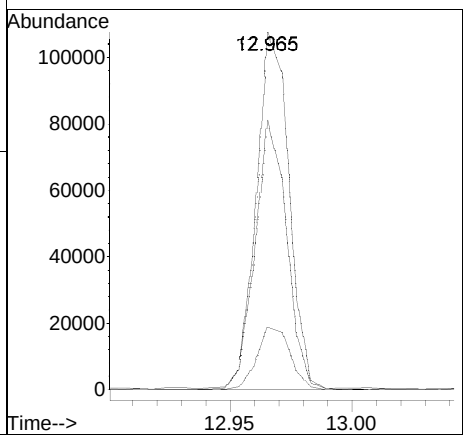


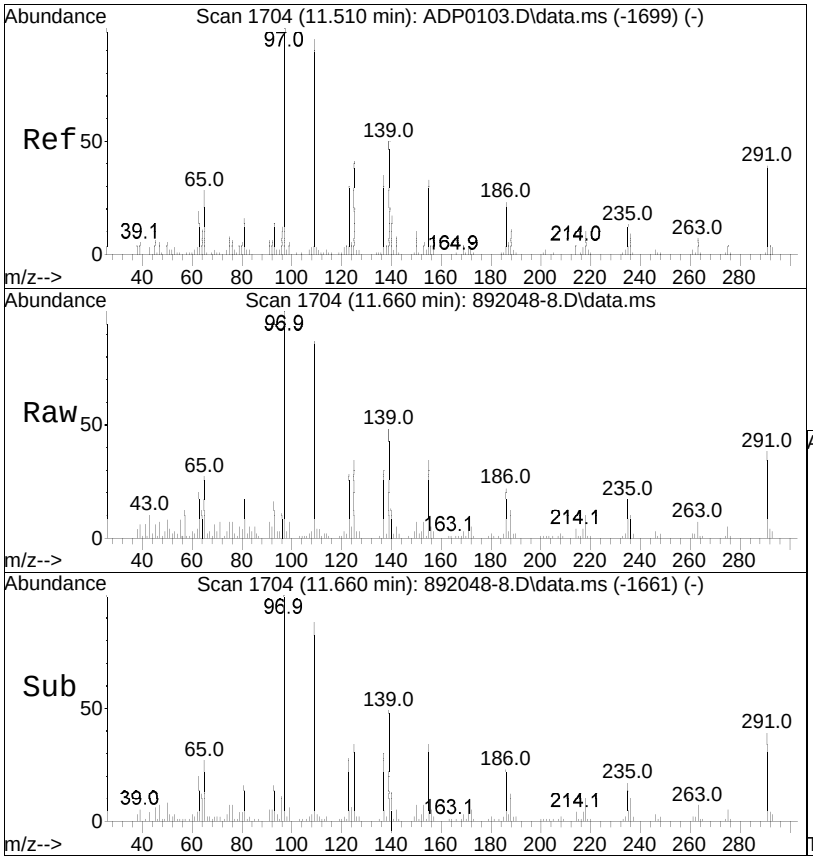


#96
Butyl benzyl phthalate
Concen: 3.49 ug/ml
RT: 12.965 min Scan# 1926
Delta R.T. -0.000 min
Lab File: 892048-8.D
Acq: 6 Mar 2024 7:15 am

Tgt Ion:149 Resp: 99205

Ion	Ratio	Lower	Upper
149	100		
91	72.2	63.3	94.9
206	18.1	13.9	20.9

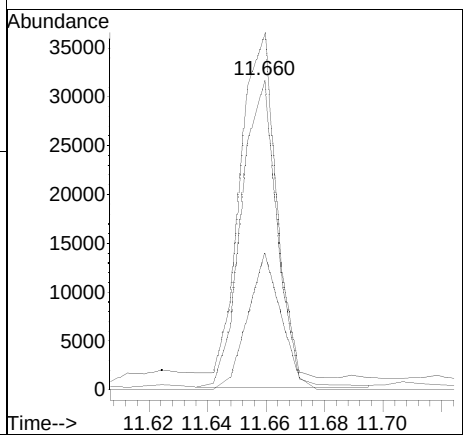


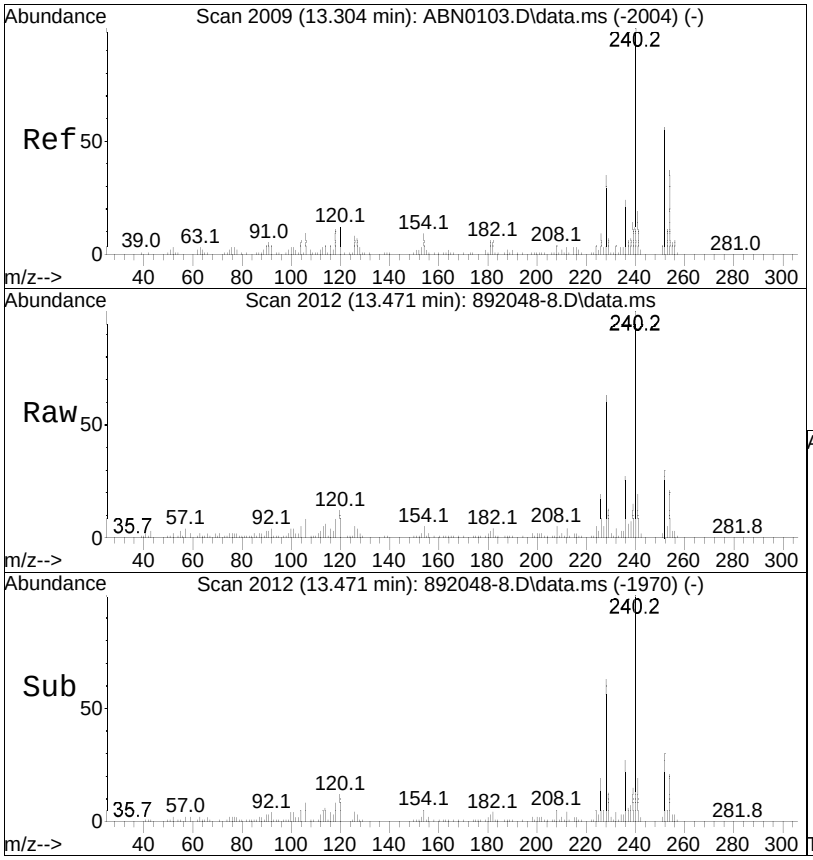


#101
Parathion
Concen: 5.40 ug/ml
RT: 11.660 min Scan# 1704
Delta R.T. 0.006 min
Lab File: 892048-8.D
Acq: 6 Mar 2024 7:15 am

Tgt Ion:109 Resp: 26593

Ion	Ratio	Lower	Upper
109	100		
97	116.3	87.4	131.2
291	41.4	34.2	51.2

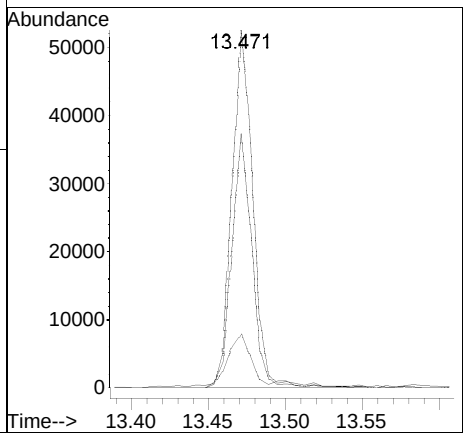


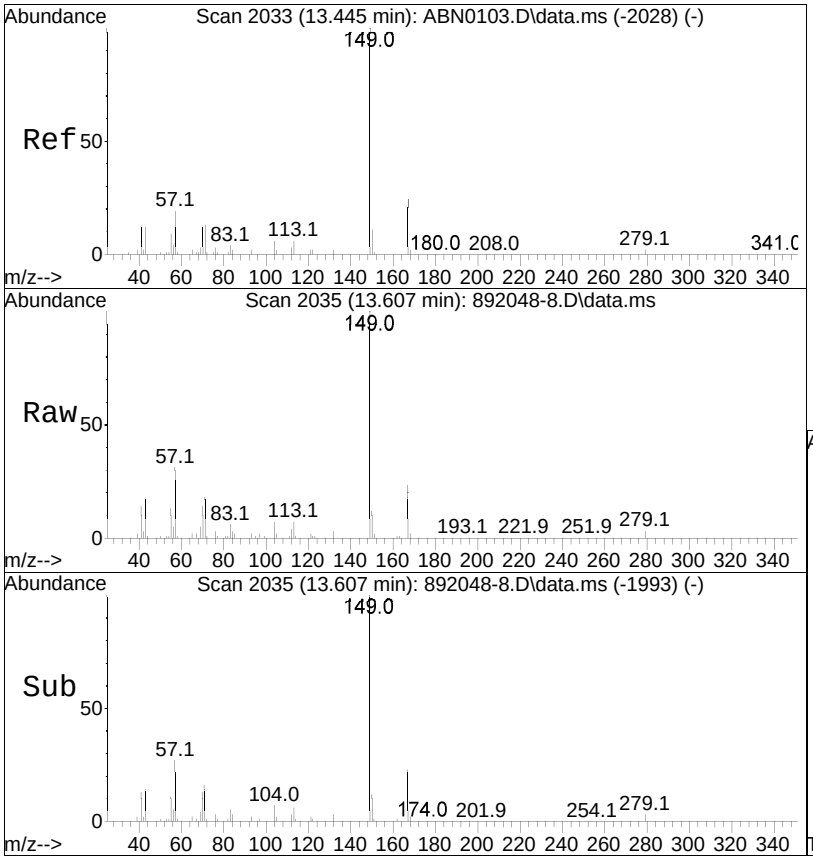


#105
3,3'-Dichlorobenzidine
Concen: 2.49 ug/ml
RT: 13.471 min Scan# 2012
Delta R.T. -0.000 min
Lab File: 892048-8.D
Acq: 6 Mar 2024 7:15 am

Tgt Ion:252 Resp: 49709

Ion	Ratio	Lower	Upper
252	100		
126	17.9	14.5	21.7
254	68.5	51.2	76.8

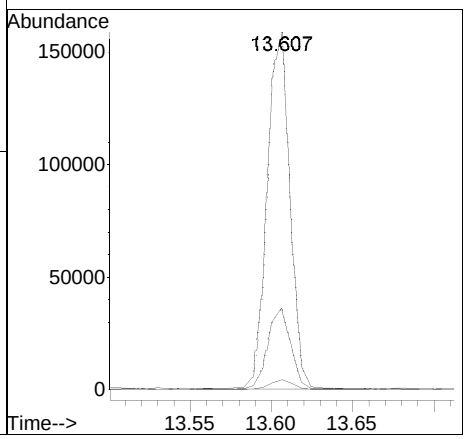


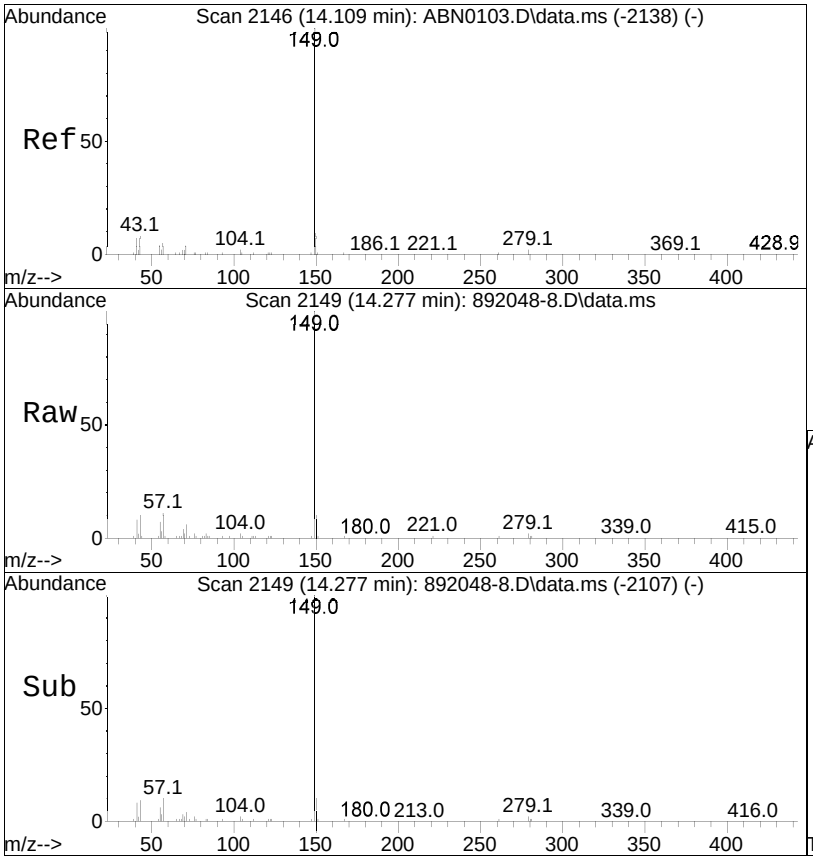


#107
Bis(2-ethylhexyl)phthalate
Concen: 4.05 ug/ml
RT: 13.607 min Scan# 2035
Delta R.T. -0.000 min
Lab File: 892048-8.D
Acq: 6 Mar 2024 7:15 am

Tgt Ion:149 Resp: 152416

Ion	Ratio	Lower	Upper
149	100		
167	23.4	22.1	33.1
279	2.6	3.0	4.4#

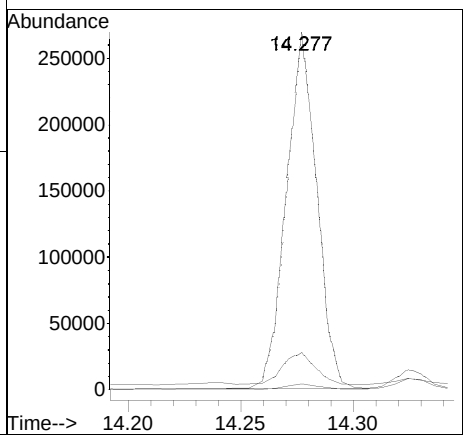




#108
Di-n-octylphthalate
Concen: 3.94 ug/ml
RT: 14.277 min Scan# 2149
Delta R.T. -0.000 min
Lab File: 892048-8.D
Acq: 6 Mar 2024 7:15 am

Tgt Ion:149 Resp: 250061

Ion	Ratio	Lower	Upper
149	100		
43	10.5	18.8	28.2#
167	1.6	1.3	1.9



Manual Integration Report

Data Path	: I:\8270\SV106\240305nlvi\	QMethod	: FS230902SV106.m
Data File	: 892048-8.D	Operator	: SV106:sz
Date Inj'd	: 3/6/2024 7:15 am	Instrument	: SV 106
Sample	: WG1892048-8,32,,ASK	Quant Date	: 3/6/2024 7:35 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240304nlvi\
Data File : 892048-5.D
Acq On : 5 Mar 2024 8:06 am
Operator : SV106:ljg
Sample : WG1892048-5,32,,gmr
Misc : WG1891342,WG1892048,ical20337
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Mar 05 11:23:26 2024
Quant Method : I:\8270\SV106\240304nlvi\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Mar 05 11:20:52 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv106\240304nlvi\ABN0304n.D
: 2 - I:\8270\sv106\240304nlvi\ADP0304n.D
: 3 - I:\8270\sv106\240304nlvi\AP90304n.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) IS1_1,4-Dichlorobenzen...	6.325	152	47480	4.000	ug/ml		0.00
Standard Area 1 = 44264			Recovery = 107.27%				
27) IS2_1,4-Dichlorobenzen...	6.325	152	47480	4.000	ug/ml		0.00
Standard Area 3 = 45624			Recovery = 104.07%				
34) IS1_Naphthalene-d8	7.760	136	177902	4.000	ug/ml	#	0.00
Standard Area 1 = 170941			Recovery = 104.07%				
54) IS2_Naphthalene-d8	7.760	136	177902	4.000	ug/ml	#	0.00
Standard Area 3 = 165553			Recovery = 107.46%				
62) IS1_Acenaphthene-d10	9.524	164	103921	4.000	ug/ml		0.00
Standard Area 1 = 107442			Recovery = 96.72%				
82) IS2_Acenaphthene-d10	9.524	164	103921	4.000	ug/ml		0.00
Standard Area 3 = 100303			Recovery = 103.61%				
85) IS3_Acenaphthene-d10	9.524	164	103921	4.000	ug/ml		0.00
Standard Area 2 = 98087			Recovery = 105.95%				
87) IS1_Phenanthrene-d10	10.960	188	195072	4.000	ug/ml		0.00
Standard Area 1 = 227092			Recovery = 85.90%				
99) IS3_Phenanthrene-d10	10.960	188	195072	4.000	ug/ml		0.00
Standard Area 2 = 217156			Recovery = 89.83%				
103) IS1_Chrysene-d12	13.577	240	147242	4.000	ug/ml		0.00
Standard Area 1 = 207444			Recovery = 70.98%				
112) IS1_Perylene-d12	15.036	264	166384	4.000	ug/ml		0.00
Standard Area 1 = 227846			Recovery = 73.02%				
System Monitoring Compounds							
4) 2-Fluorophenol	4.354	112	36811	2.780	ug/ml		0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 55.60%				
7) Phenol-d6	5.966	99	41635	2.441	ug/ml		0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 48.82%				
19) Nitrobenzene-d5	6.989	82	26266	1.698	ug/ml		0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 67.92%				
45) 2-Fluorobiphenyl	8.889	172	56687	1.669	ug/ml		0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 66.76%				
78) 2,4,6-Tribromophenol	10.295	330	16660	3.494	ug/ml		0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 69.88%				
95) 4-Terphenyl-d14	12.536	244	70084	1.638	ug/ml		0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 65.52%				

Data Path : I:\8270\SV106\240304nlvi\
Data File : 892048-5.D
Acq On : 5 Mar 2024 8:06 am
Operator : SV106:ljg
Sample : WG1892048-5,32,,gmr
Misc : WG1891342,WG1892048,ical20337
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Mar 05 11:23:26 2024
Quant Method : I:\8270\SV106\240304nlvi\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Mar 05 11:20:52 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv106\240304nlvi\ABN0304n.D
: 2 - I:\8270\sv106\240304nlvi\ADP0304n.D
: 3 - I:\8270\sv106\240304nlvi\AP90304n.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Target Compounds						Qvalue
6) 2-Chlorophenol	6.066	128	47909	3.168	ug/ml	94
8) Phenol	5.984	94	45349	2.512	ug/ml	97
9) Bis(2-chloroethyl)ether	6.048	93	45978	3.170	ug/ml#	80
14) Bis(2-chloroisopropyl)...	6.719	45	74105	3.469	ug/ml#	58
15) 2-Methylphenol	6.725	108	41042	3.039	ug/ml	98
17) n-Nitrosodi-n-propylamine	6.872	70	36941	3.371	ug/ml#	92
18) 3-Methylphenol/4-Methy...	6.907	108	46922	3.312	ug/ml	95
20) Nitrobenzene	7.013	77	53746	3.497	ug/ml	98
21) Isophorone	7.295	82	98966	3.365	ug/ml	95
22) 2-Nitrophenol	7.372	139	24910	4.053	ug/ml#	91
23) 2,4-Dimethylphenol	7.478	107	36923	2.429	ug/ml	94
24) Bis(2-chloroethoxy)met...	7.572	93	63999	3.473	ug/ml	98
25) 2,4-Dichlorophenol	7.642	162	45339	3.551	ug/ml	94
28) Benzaldehyde	5.742	105	40006	3.631	ug/ml	97
29) Acetophenone	6.831	105	71101	3.004	ug/ml#	83
37) 4-Chloroaniline	7.872	65	18972	3.231	ug/ml	88
39) p-Chloro-m-cresol	8.401	107	47032	3.628	ug/ml	97
42) Hexachlorocyclopentadiene	8.683	237	28984	2.972	ug/ml	99
43) 2,4,6-Trichlorophenol	8.801	196	36179	3.900	ug/ml	96
44) 2,4,5-Trichlorophenol	8.830	196	38415	3.850	ug/ml	97
47) 2-Nitroaniline	9.095	138	27948	3.540	ug/ml	96
50) Dimethyl phthalate	9.301	163	123029	3.513	ug/ml	98
52) 2,6-Dinitrotoluene	9.342	165	26422	4.013	ug/ml#	81
59) Caprolactam	8.189	55	12427	1.906	ug/ml#	71
60) 1,2,4,5-Tetrachloroben...	8.677	216	56215	3.633	ug/ml	97
61) Biphenyl	8.977	154	129310	3.397	ug/ml	98
63) 3-Nitroaniline	9.495	138	22932	3.085	ug/ml	93
65) 2,4-Dinitrophenol	9.601	184	14108	4.476	ug/ml	96
66) Dibenzofuran	9.724	168	148032	3.371	ug/ml	97
67) 2,4-Dinitrotoluene	9.730	165	37075	4.041	ug/ml	94
68) 4-Nitrophenol	9.695	65	21632	3.237	ug/ml#	87
70) 2,3,4,6-Tetrachlorophenol	9.860	232	31729	3.622	ug/ml	94
71) Diethyl phthalate	9.995	149	129490	3.523	ug/ml	98
73) 4-Chlorophenyl phenyl ...	10.083	204	58170	3.513	ug/ml	93
74) 4-Nitroaniline	10.083	138	21266	2.834	ug/ml#	89
75) 4,6-Dinitro-o-cresol	10.124	198	22062	5.117	ug/ml#	63

Data Path : I:\8270\SV106\240304nlvi\
Data File : 892048-5.D
Acq On : 5 Mar 2024 8:06 am
Operator : SV106:ljg
Sample : WG1892048-5,32,,gmr
Misc : WG1891342,WG1892048,ical20337
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Mar 05 11:23:26 2024
Quant Method : I:\8270\SV106\240304nlvi\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Mar 05 11:20:52 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv106\240304nlvi\ABN0304n.D
: 2 - I:\8270\sv106\240304nlvi\ADP0304n.D
: 3 - I:\8270\sv106\240304nlvi\AP90304n.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
76)	NDPA/DPA	10.195	169	98902	3.388	ug/ml	98
79)	4-Bromophenyl phenyl e...	10.548	248	35859	3.722	ug/ml#	88
86)	Atrazine	10.736	200	32887	3.673	ug/ml	93
90)	Carbazole	11.201	167	164048	3.395	ug/ml	100
91)	Di-n-butylphthalate	11.595	149	206840	3.343	ug/ml	99
96)	Butyl benzyl phthalate	13.065	149	82049	3.107	ug/ml	93
105)	3,3'-Dichlorobenzidine	13.577	252	33900	1.952	ug/ml	96
107)	Bis(2-ethylhexyl)phtha...	13.701	149	122592	3.748	ug/ml#	94
108)	Di-n-octylphthalate	14.377	149	203560	3.689	ug/ml#	74

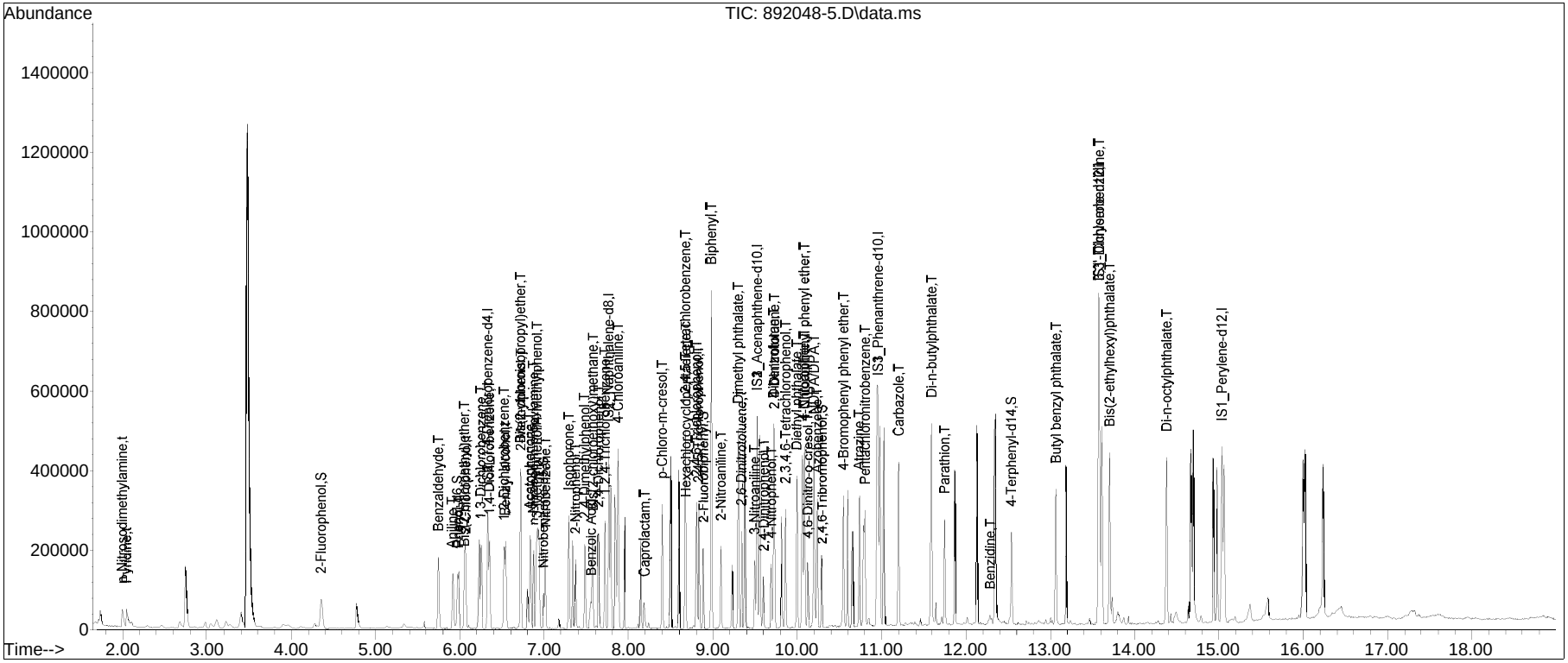
(#) = qualifier out of range (m) = manual integration (+) = signals summed

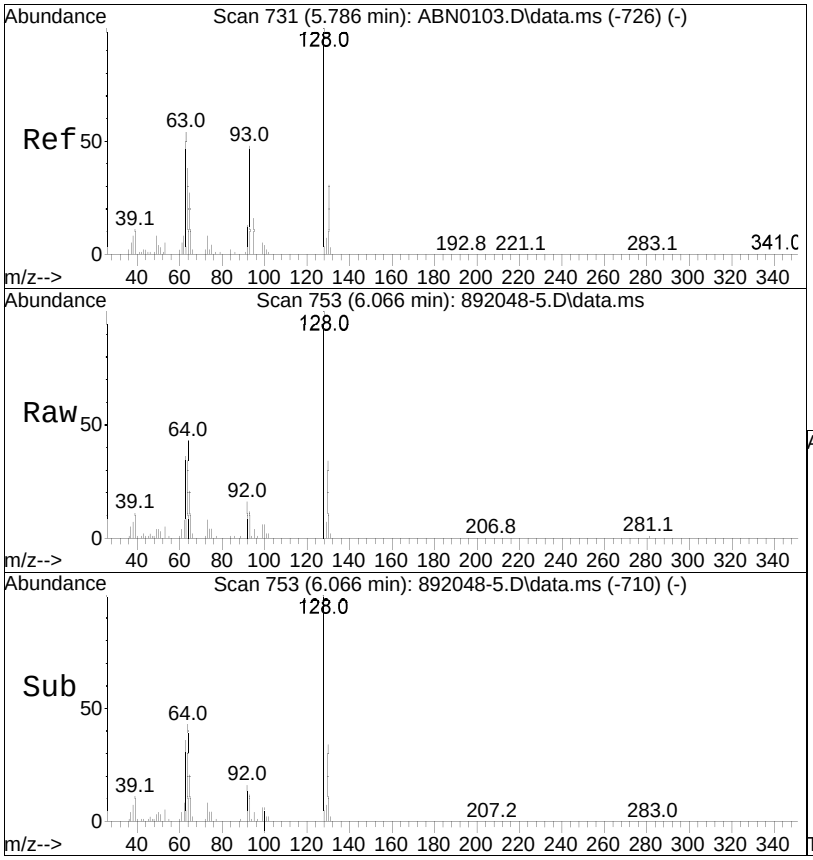
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240304nlvi\
Data File : 892048-5.D
Acq On : 5 Mar 2024 8:06 am
Operator : SV106:ljg
Sample : WG1892048-5,32,,gmr
Misc : WG1891342,WG1892048,ical20337
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Mar 05 11:23:26 2024
Quant Method : I:\8270\SV106\240304nlvi\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Mar 05 11:20:52 2024
Response via : Initial Calibration

Sub List : 8270TCL_combo_REV1 - TCL/CT/MAP90304n.D•

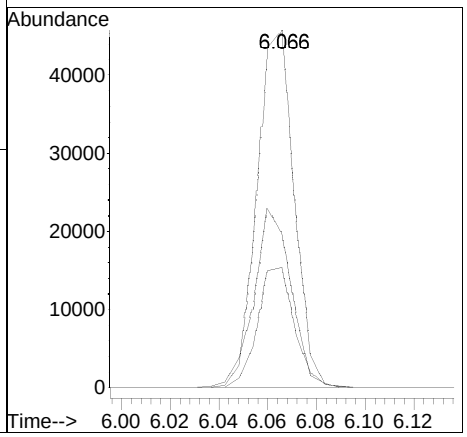


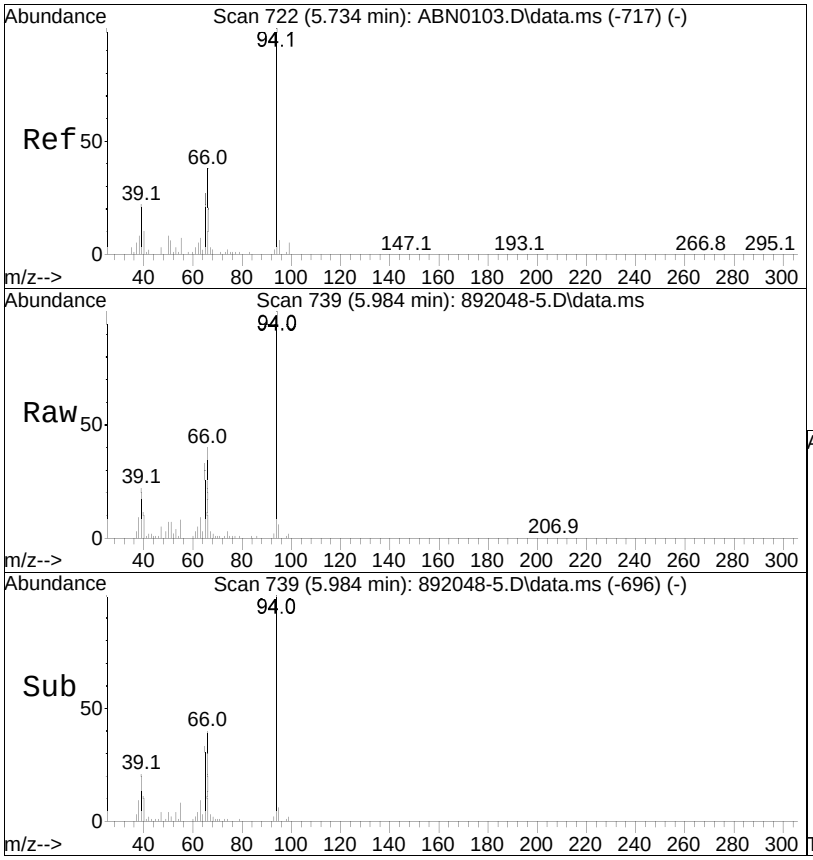


#6
2-Chlorophenol
Concen: 3.17 ug/ml
RT: 6.066 min Scan# 753
Delta R.T. 0.000 min
Lab File: 892048-5.D
Acq: 5 Mar 2024 8:06 am

Tgt Ion:128 Resp: 47909

Ion	Ratio	Lower	Upper
128	100		
64	50.6	45.1	67.7
130	33.9	26.2	39.4

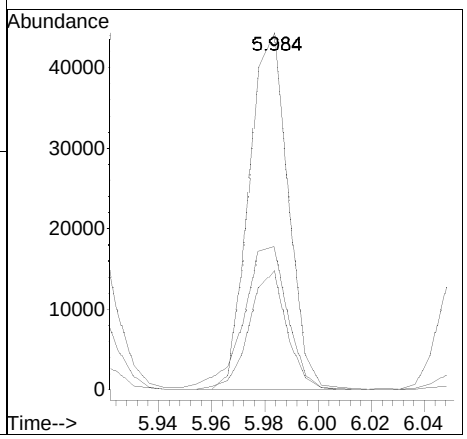


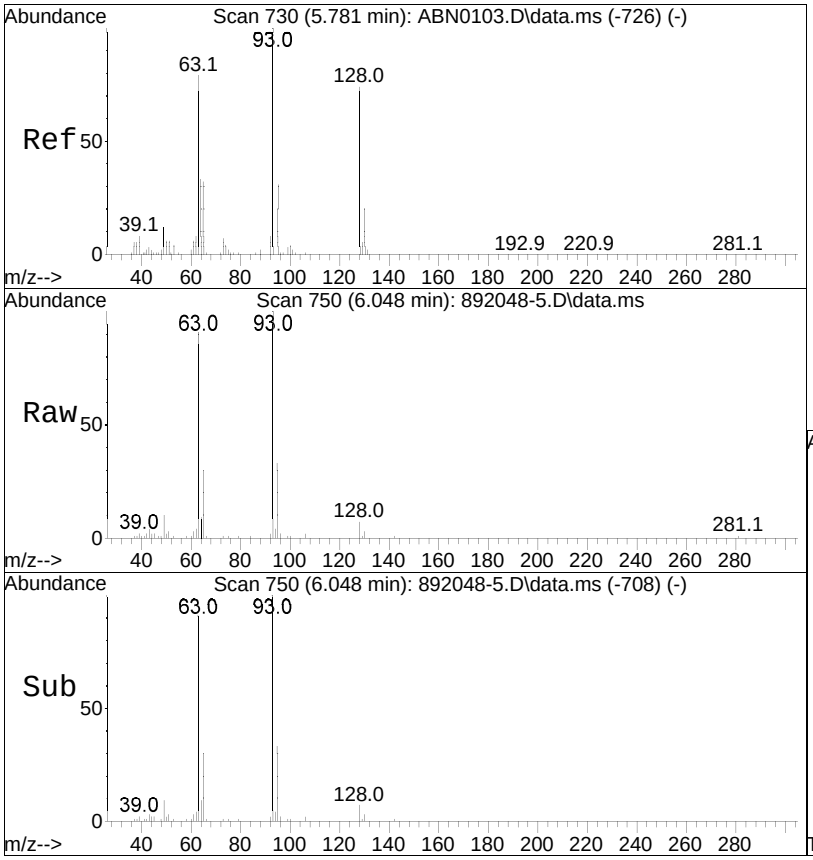


#8
Phenol
Concen: 2.51 ug/ml
RT: 5.984 min Scan# 739
Delta R.T. 0.000 min
Lab File: 892048-5.D
Acq: 5 Mar 2024 8:06 am

Tgt Ion: 94 Resp: 45349

Ion	Ratio	Lower	Upper
94	100		
65	32.1	26.0	39.0
66	45.4	33.8	50.8

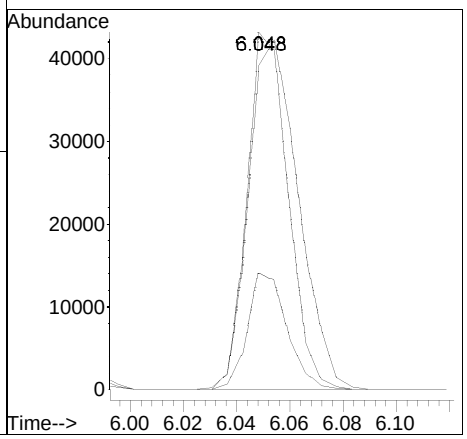


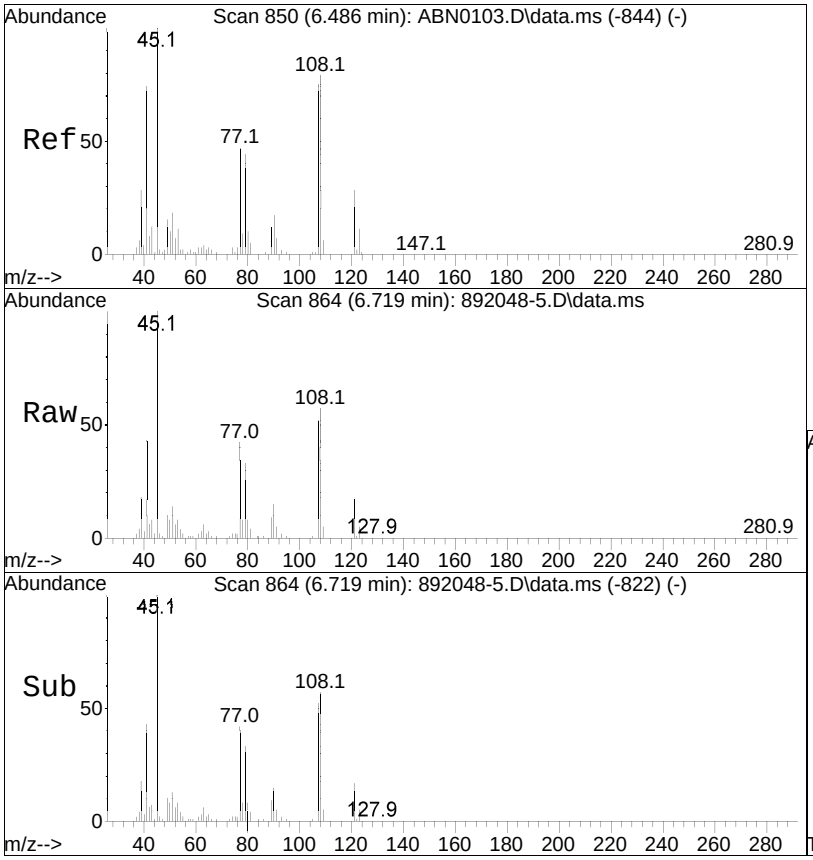


#9
Bis(2-chloroethyl)ether
Concen: 3.17 ug/ml
RT: 6.048 min Scan# 750
Delta R.T. -0.006 min
Lab File: 892048-5.D
Acq: 5 Mar 2024 8:06 am

Tgt Ion: 93 Resp: 45978

Ion	Ratio	Lower	Upper
93	100		
63	118.7	74.6	111.8#
95	31.6	25.9	38.9

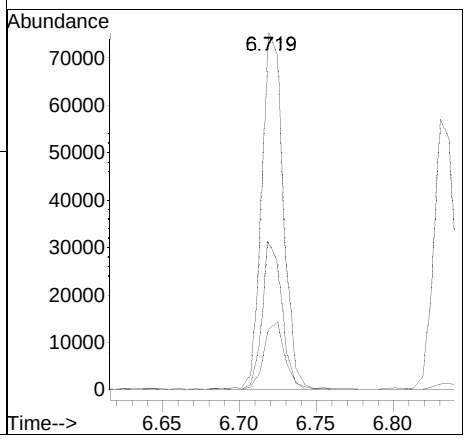


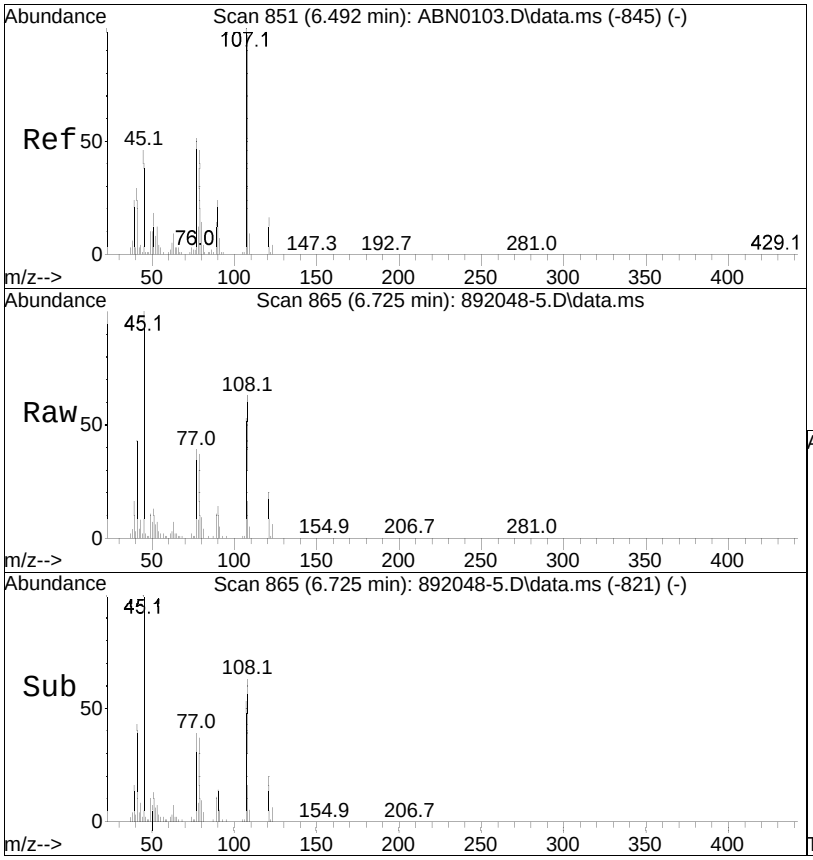


#14
Bis(2-chloroisopropyl)ether
Concen: 3.47 ug/ml
RT: 6.719 min Scan# 864
Delta R.T. -0.006 min
Lab File: 892048-5.D
Acq: 5 Mar 2024 8:06 am

Tgt Ion: 45 Resp: 74105

Ion	Ratio	Lower	Upper
45	100		
121	18.1	9.8	14.6#
77	37.8	6.1	9.1#

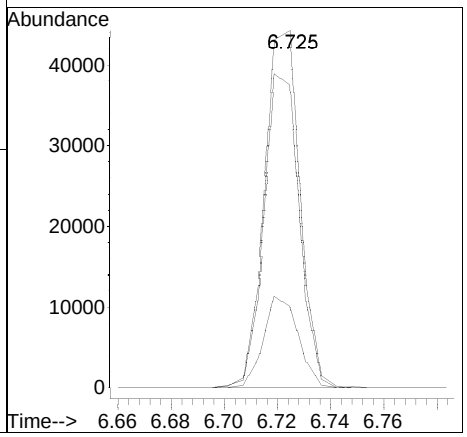


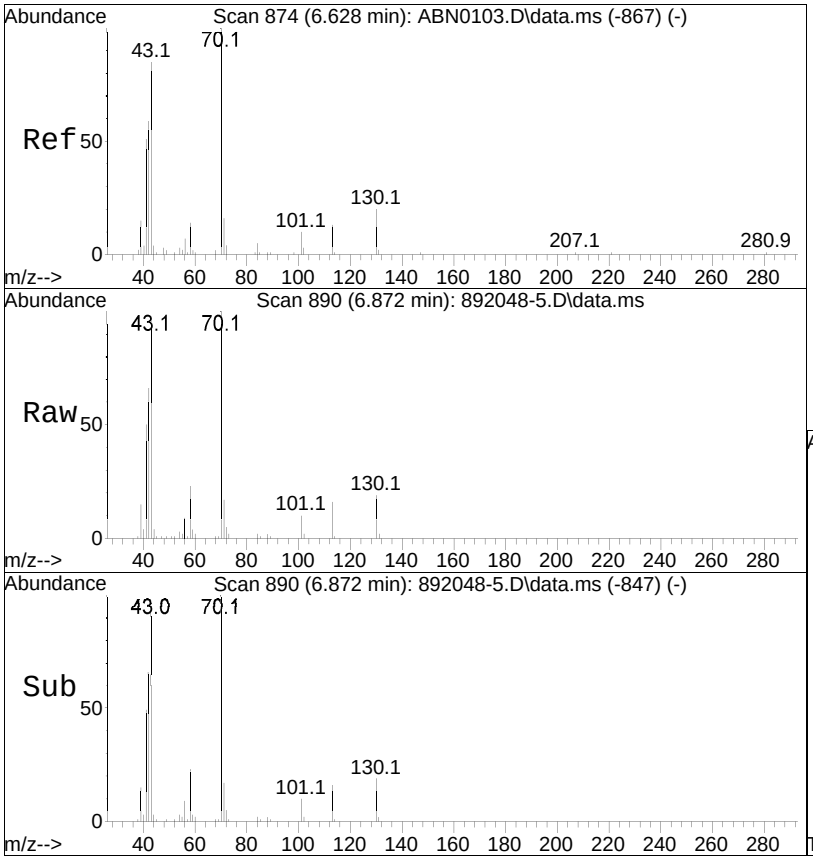


#15
2-Methylphenol
Concen: 3.04 ug/ml
RT: 6.725 min Scan# 865
Delta R.T. 0.006 min
Lab File: 892048-5.D
Acq: 5 Mar 2024 8:06 am

Tgt Ion:108 Resp: 41042

Ion	Ratio	Lower	Upper
108	100		
107	86.8	70.7	106.1
90	25.1	18.7	28.1

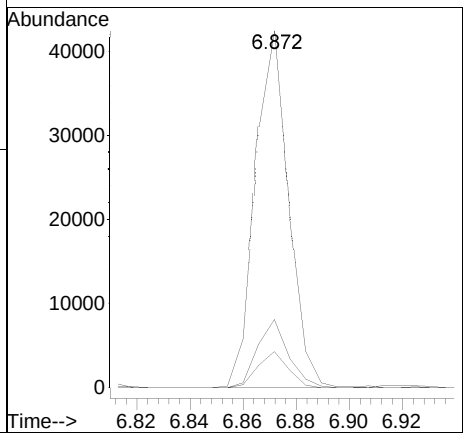


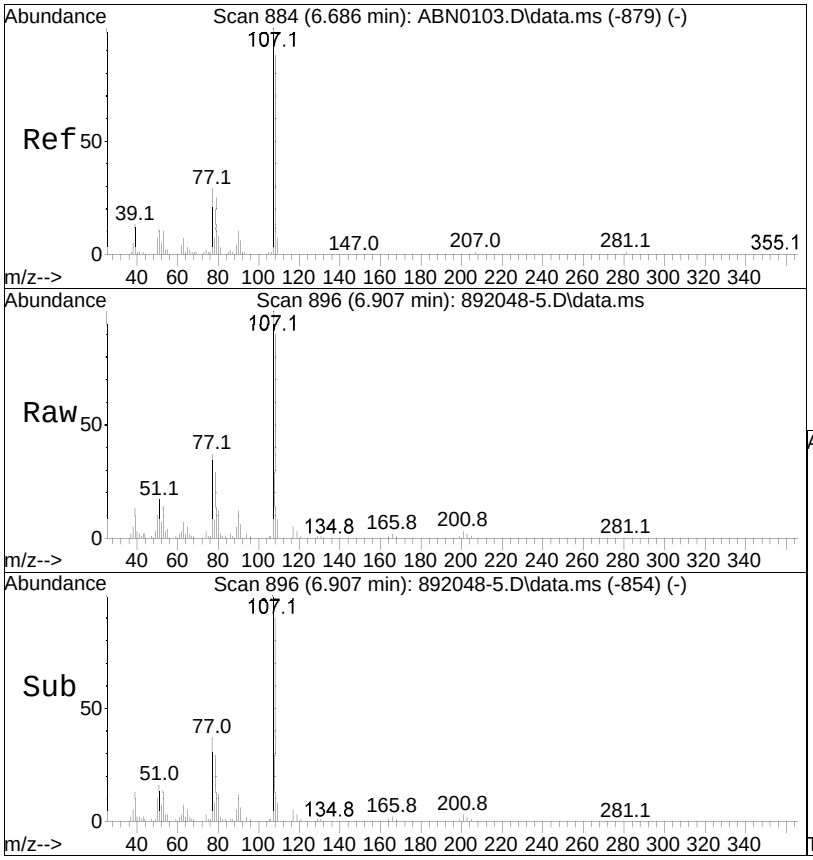


#17
n-Nitrosodi-n-propylamine
Concen: 3.37 ug/ml
RT: 6.872 min Scan# 890
Delta R.T. 0.000 min
Lab File: 892048-5.D
Acq: 5 Mar 2024 8:06 am

Tgt Ion: 70 Resp: 36941

Ion	Ratio	Lower	Upper
70	100		
130	17.7	18.2	27.4#
101	9.2	7.8	11.8

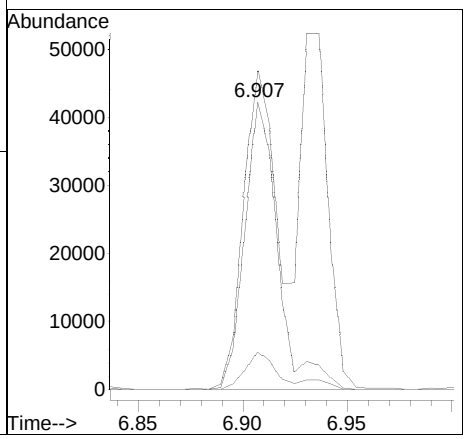


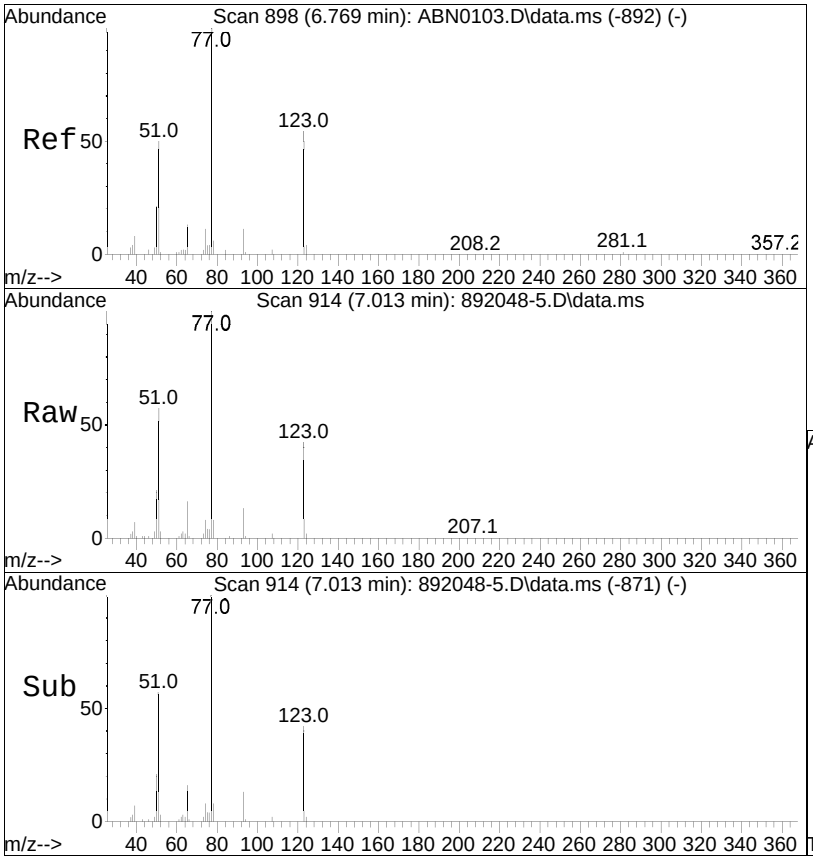


#18
3-Methylphenol/4-Methylphenol
Concen: 3.31 ug/ml
RT: 6.907 min Scan# 896
Delta R.T. -0.006 min
Lab File: 892048-5.D
Acq: 5 Mar 2024 8:06 am

Tgt Ion:108 Resp: 46922

Ion	Ratio	Lower	Upper
108	100		
107	105.6	88.6	132.8
90	12.0	8.8	13.2

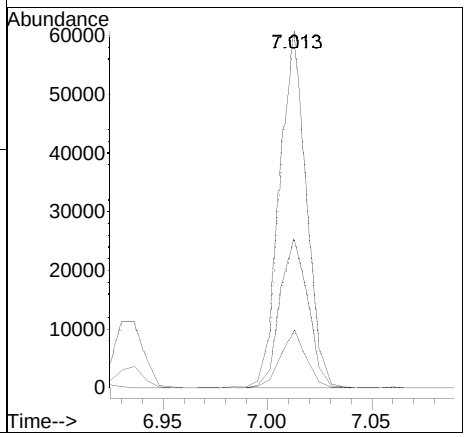


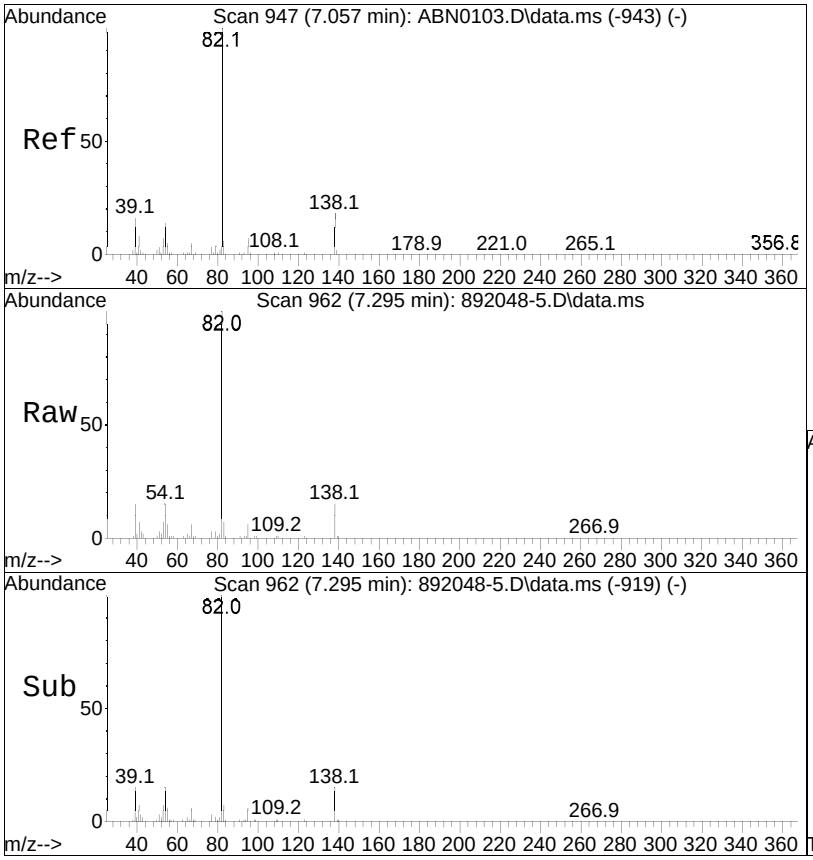


#20
Nitrobenzene
Concen: 3.50 ug/ml
RT: 7.013 min Scan# 914
Delta R.T. 0.000 min
Lab File: 892048-5.D
Acq: 5 Mar 2024 8:06 am

Tgt Ion: 77 Resp: 53746

Ion	Ratio	Lower	Upper
77	100		
123	43.8	36.3	54.5
65	15.5	11.6	17.4

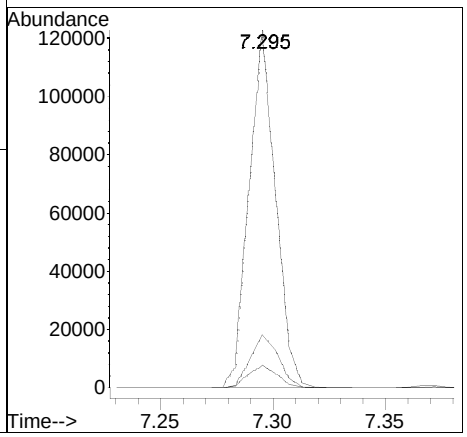


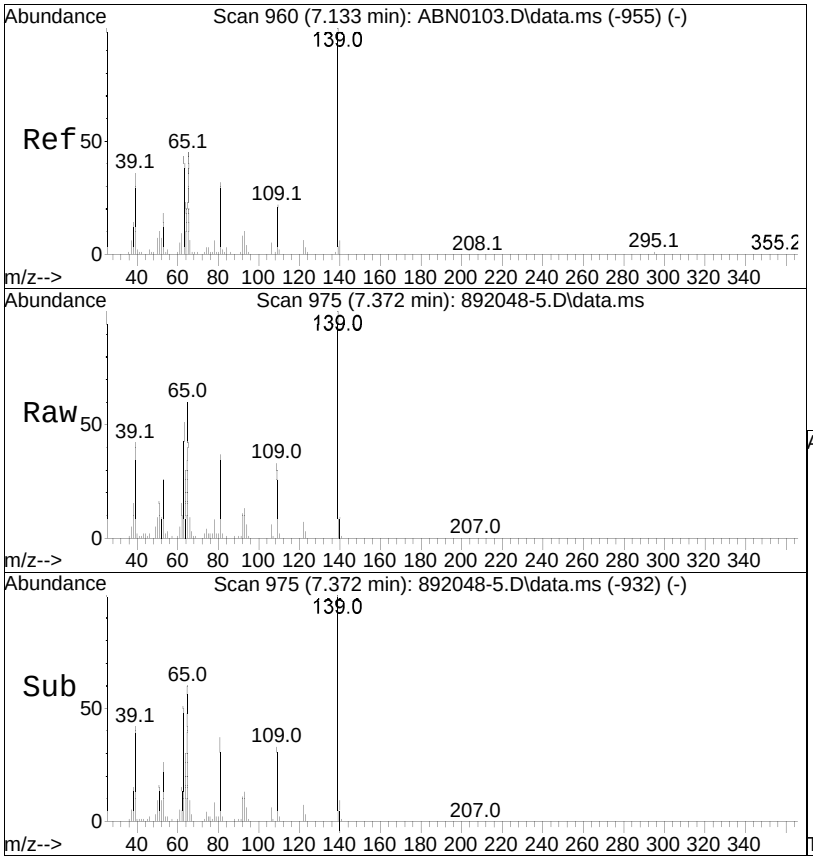


#21
Isophorone
Concen: 3.36 ug/ml
RT: 7.295 min Scan# 962
Delta R.T. 0.000 min
Lab File: 892048-5.D
Acq: 5 Mar 2024 8:06 am

Tgt Ion: 82 Resp: 98966

Ion	Ratio	Lower	Upper
82	100		
138	15.9	14.7	22.1
95	7.0	5.2	7.8

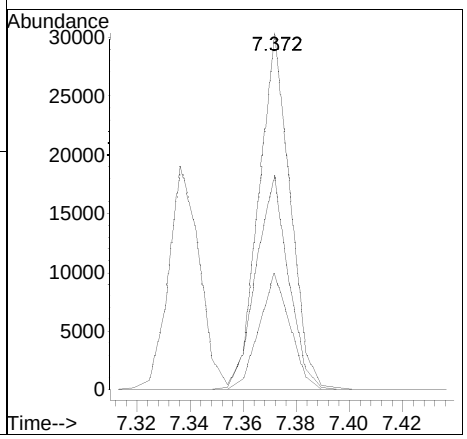


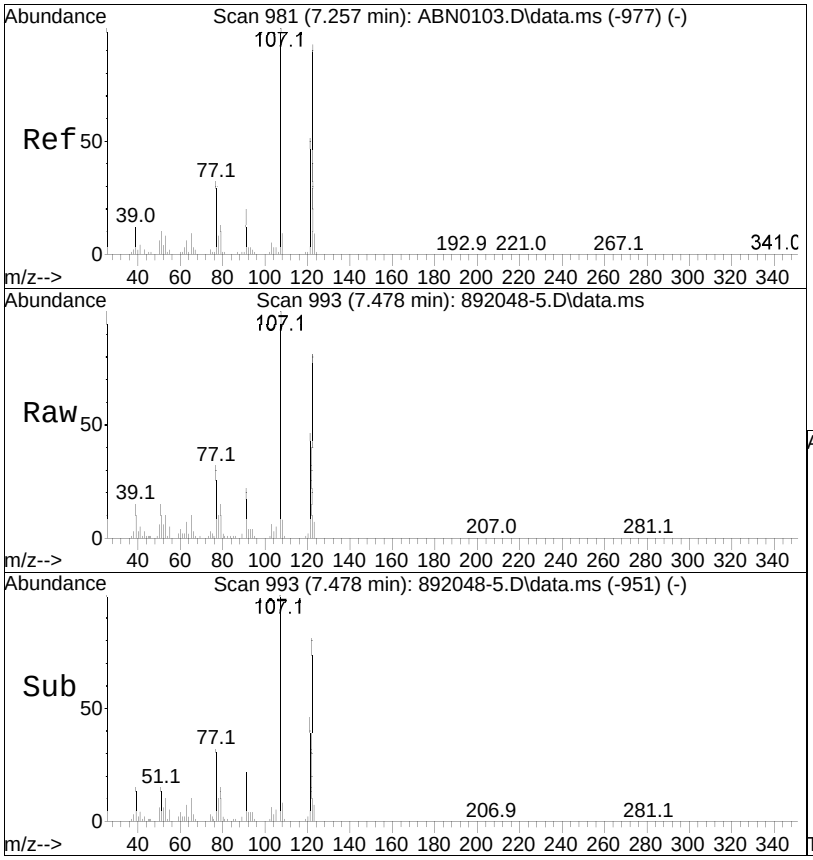


#22
2-Nitrophenol
Concen: 4.05 ug/ml
RT: 7.372 min Scan# 975
Delta R.T. 0.000 min
Lab File: 892048-5.D
Acq: 5 Mar 2024 8:06 am

Tgt Ion:139 Resp: 24910

Ion	Ratio	Lower	Upper
139	100		
109	32.0	19.4	29.0#
65	61.9	46.1	69.1

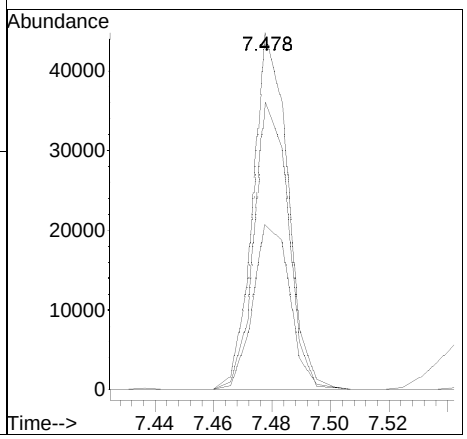


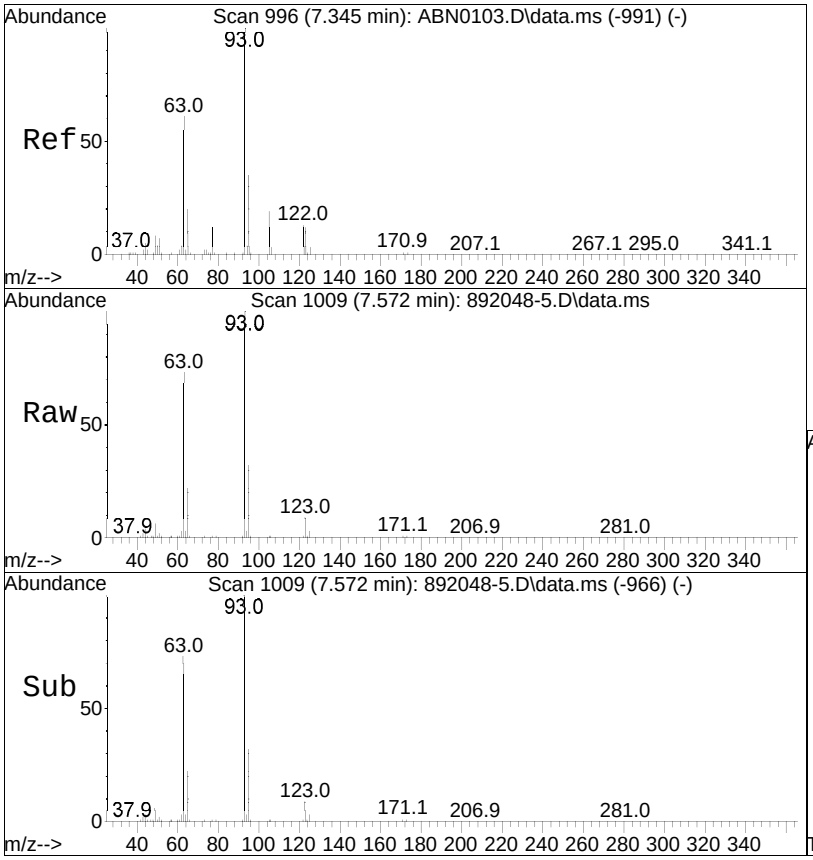


#23
2,4-Dimethylphenol
Concen: 2.43 ug/ml
RT: 7.478 min Scan# 993
Delta R.T. -0.006 min
Lab File: 892048-5.D
Acq: 5 Mar 2024 8:06 am

Tgt Ion:107 Resp: 36923

Ion	Ratio	Lower	Upper
107	100		
121	49.4	40.0	60.0
122	79.1	70.2	105.4

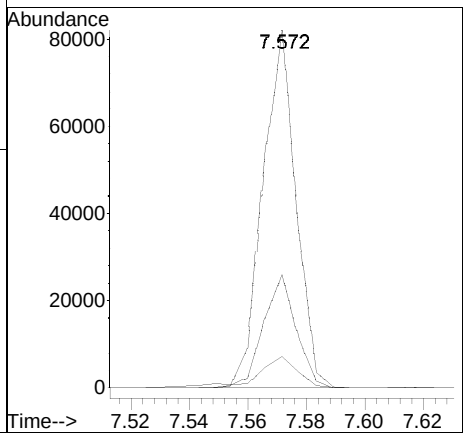


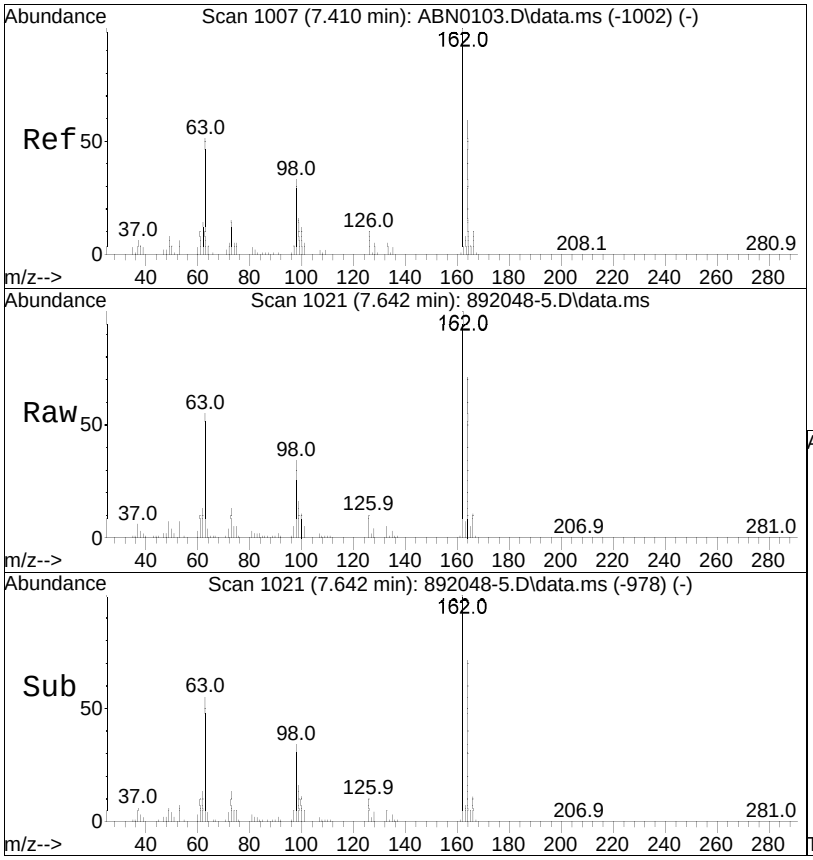


#24
Bis(2-chloroethoxy)methane
Concen: 3.47 ug/ml
RT: 7.572 min Scan# 1009
Delta R.T. 0.000 min
Lab File: 892048-5.D
Acq: 5 Mar 2024 8:06 am

Tgt Ion: 93 Resp: 63999

Ion	Ratio	Lower	Upper
93	100		
95	31.4	25.8	38.8
123	10.8	10.1	15.1

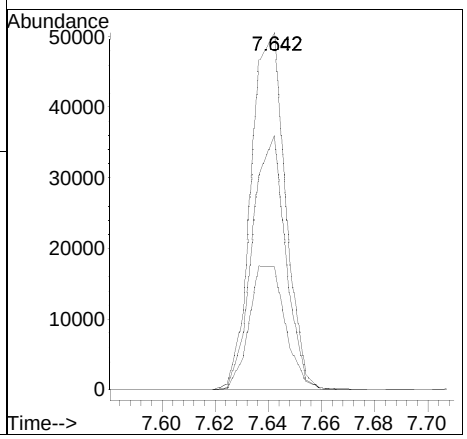


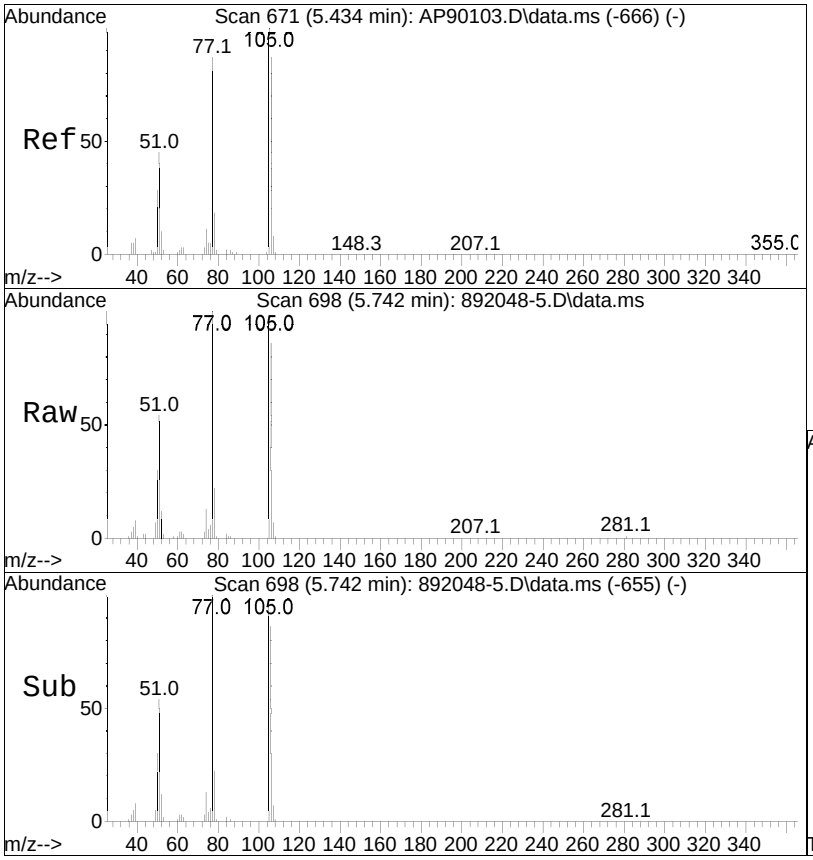


#25
2,4-Dichlorophenol
Concen: 3.55 ug/ml
RT: 7.642 min Scan# 1021
Delta R.T. 0.000 min
Lab File: 892048-5.D
Acq: 5 Mar 2024 8:06 am

Tgt Ion:162 Resp: 45339

Ion	Ratio	Lower	Upper
162	100		
164	69.3	51.0	76.4
98	36.8	32.2	48.2

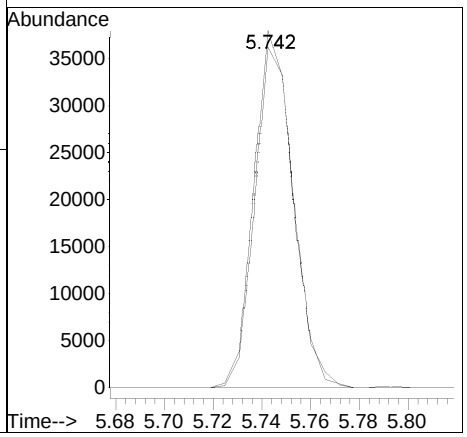


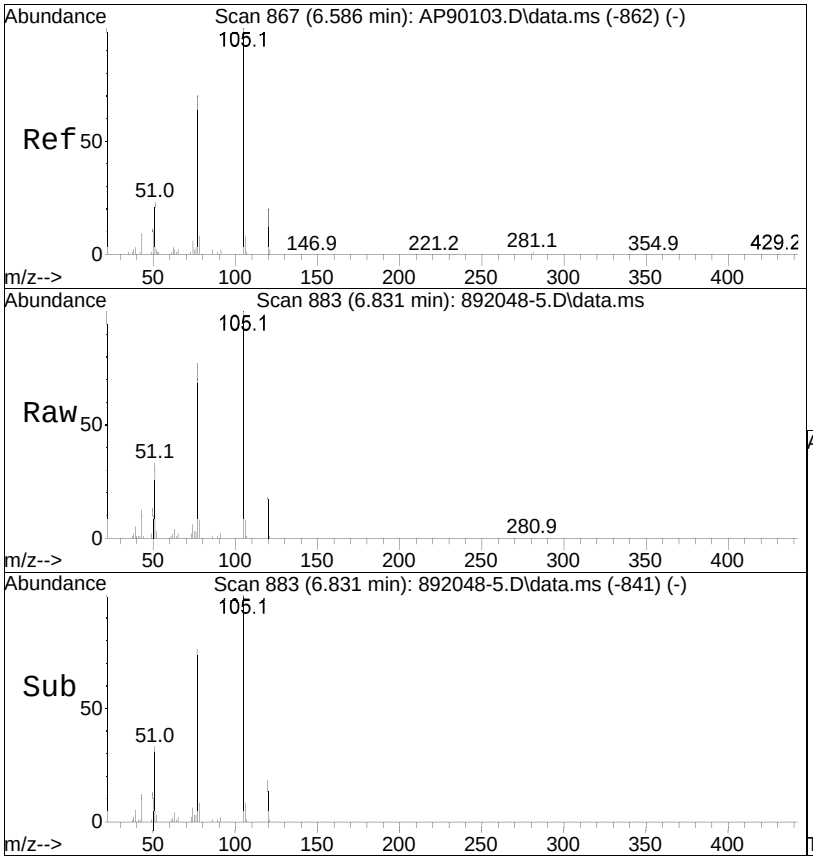


#28
Benzaldehyde
Concen: 3.63 ug/ml
RT: 5.742 min Scan# 698
Delta R.T. 0.000 min
Lab File: 892048-5.D
Acq: 5 Mar 2024 8:06 am

Tgt Ion:105 Resp: 40006

Ion	Ratio	Lower	Upper
105	100		
77	105.5	82.2	123.4

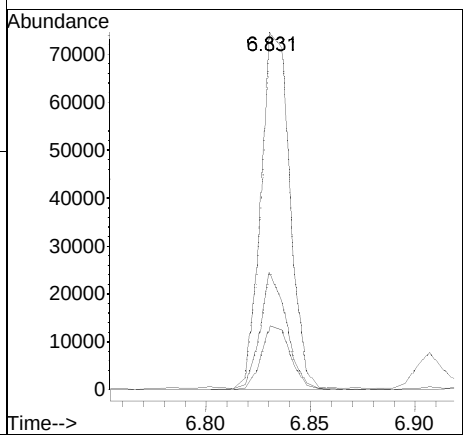


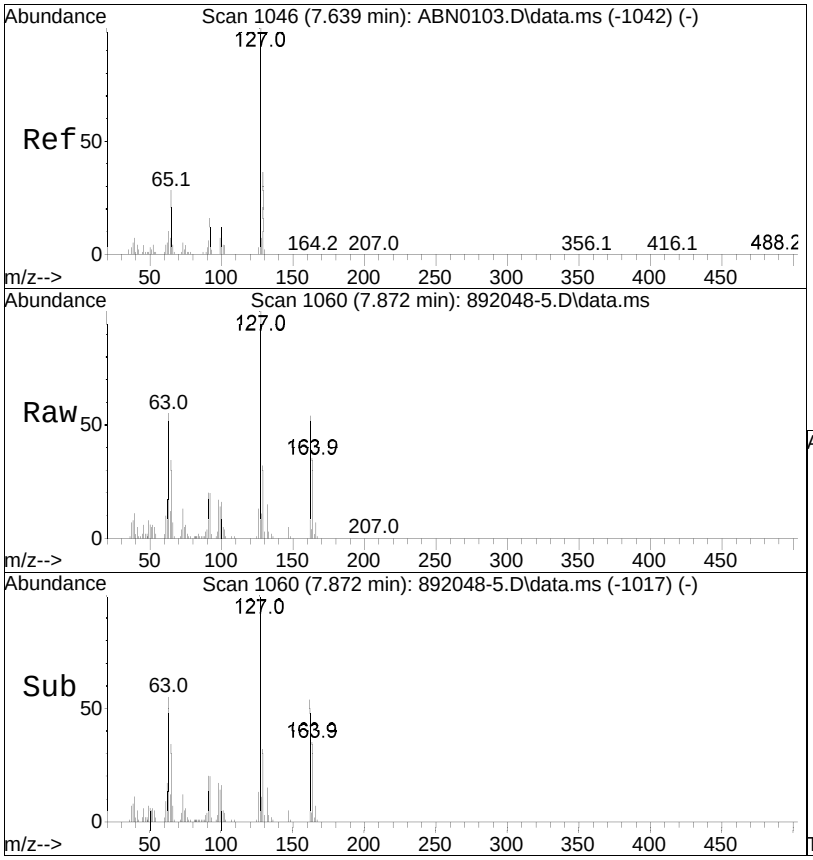


#29
Acetophenone
Concen: 3.00 ug/ml
RT: 6.831 min Scan# 883
Delta R.T. -0.006 min
Lab File: 892048-5.D
Acq: 5 Mar 2024 8:06 am

Tgt Ion:105 Resp: 71101

Ion	Ratio	Lower	Upper
105	100		
120	18.0	20.5	30.7#
51	32.0	34.9	52.3#

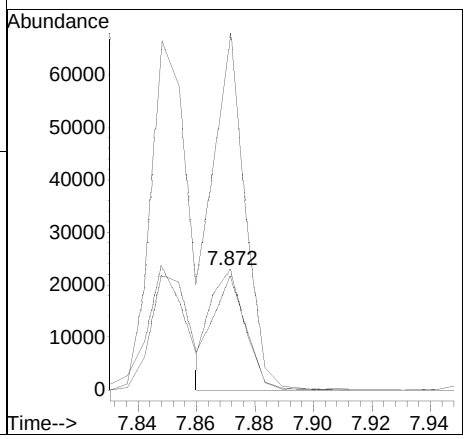


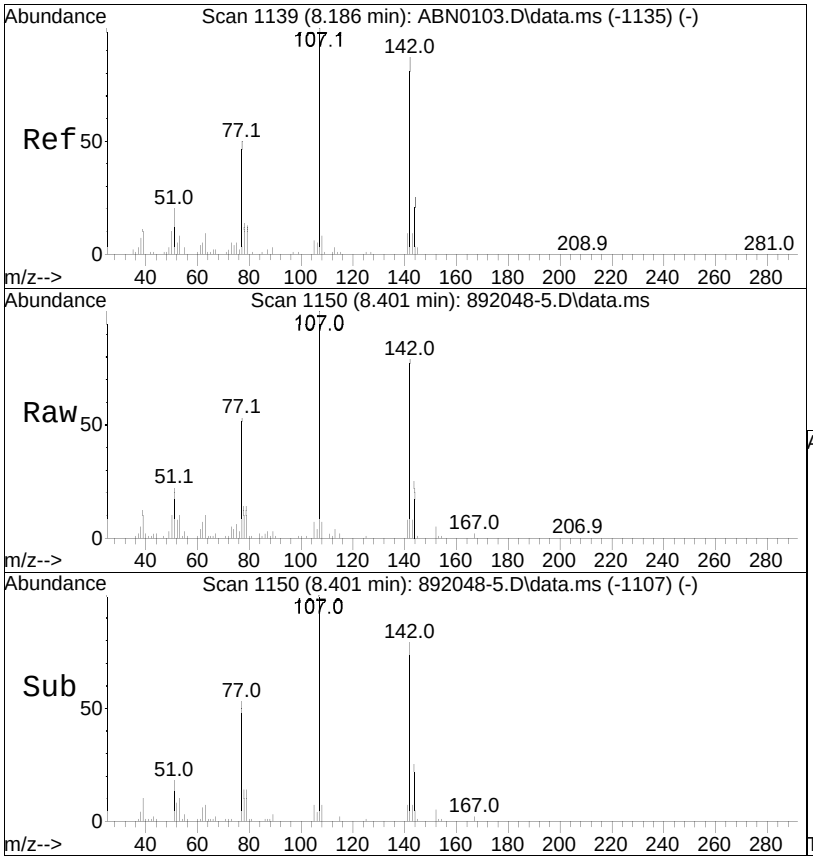


#37
4-Chloroaniline
Concen: 3.23 ug/ml
RT: 7.872 min Scan# 1060
Delta R.T. 0.000 min
Lab File: 892048-5.D
Acq: 5 Mar 2024 8:06 am

Tgt Ion: 65 Resp: 18972

Ion	Ratio	Lower	Upper
65	100		
127	270.1	237.6	356.4
129	89.8	76.3	114.5

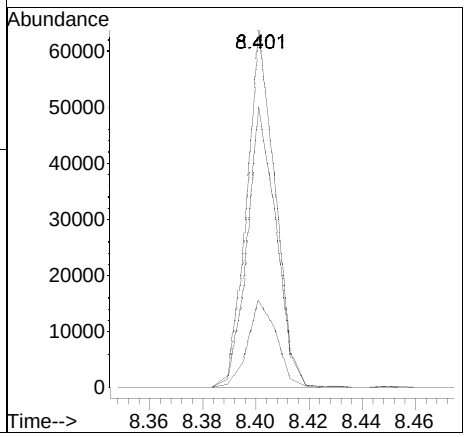


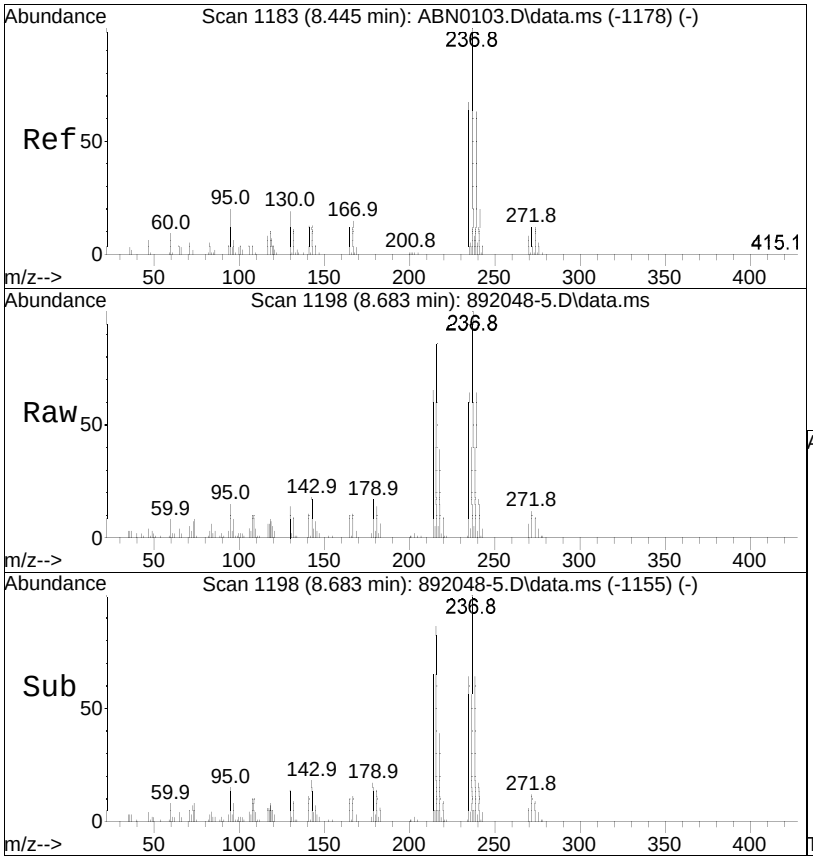


#39
p-Chloro-m-cresol
Concen: 3.63 ug/ml
RT: 8.401 min Scan# 1150
Delta R.T. 0.000 min
Lab File: 892048-5.D
Acq: 5 Mar 2024 8:06 am

Tgt Ion:107 Resp: 47032

Ion	Ratio	Lower	Upper
107	100		
144	24.8	20.9	31.3
142	79.9	66.1	99.1

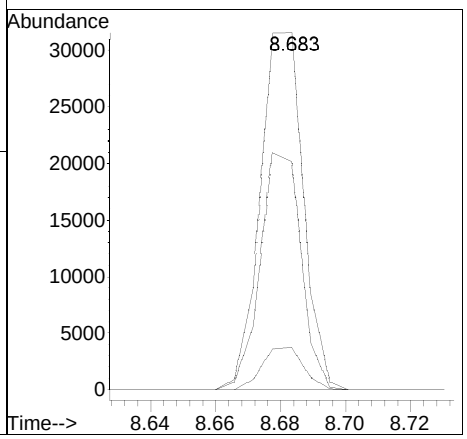


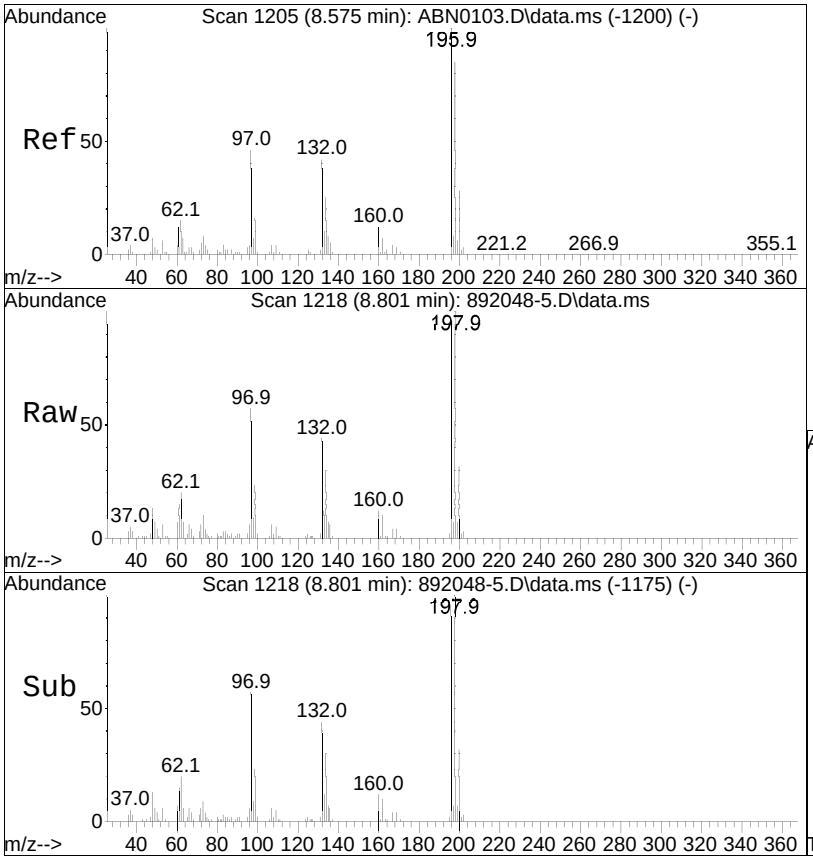


#42
Hexachlorocyclopentadiene
Concen: 2.97 ug/ml
RT: 8.683 min Scan# 1198
Delta R.T. 0.000 min
Lab File: 892048-5.D
Acq: 5 Mar 2024 8:06 am

Tgt Ion:237 Resp: 28984

Ion	Ratio	Lower	Upper
237	100		
235	63.1	49.7	74.5
272	11.6	9.8	14.6

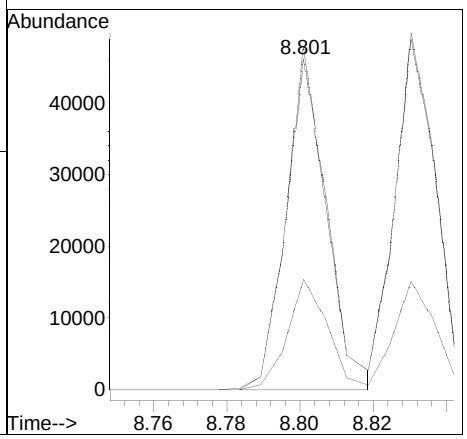


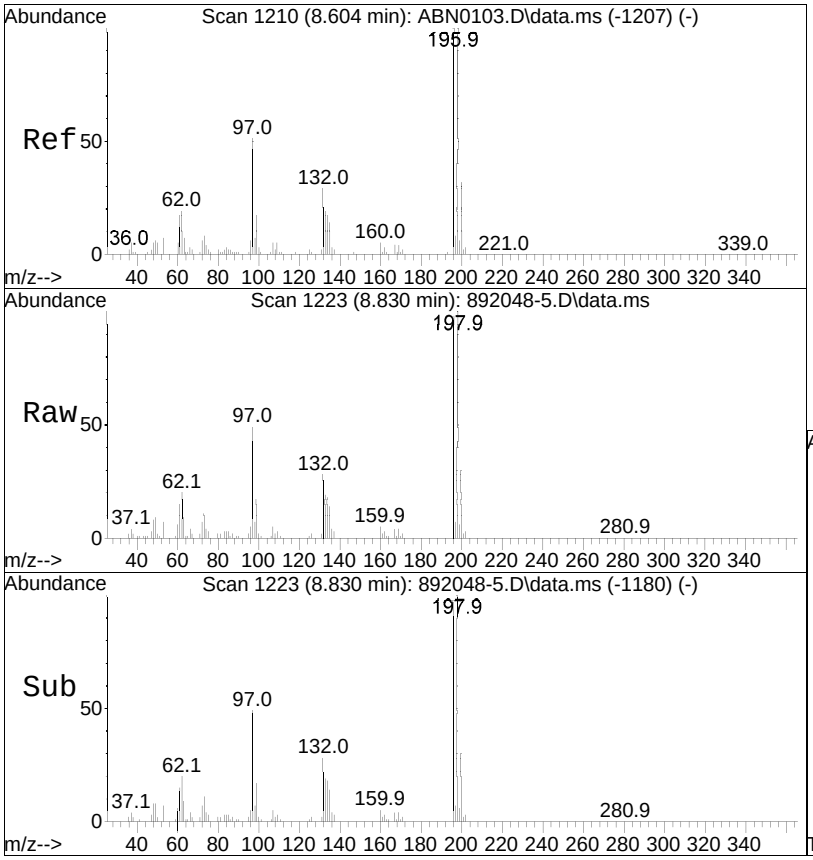


#43
2,4,6-Trichlorophenol
Concen: 3.90 ug/ml
RT: 8.801 min Scan# 1218
Delta R.T. 0.000 min
Lab File: 892048-5.D
Acq: 5 Mar 2024 8:06 am

Tgt Ion:196 Resp: 36179

Ion	Ratio	Lower	Upper
196	100		
198	99.9	77.5	116.3
200	32.9	23.8	35.6

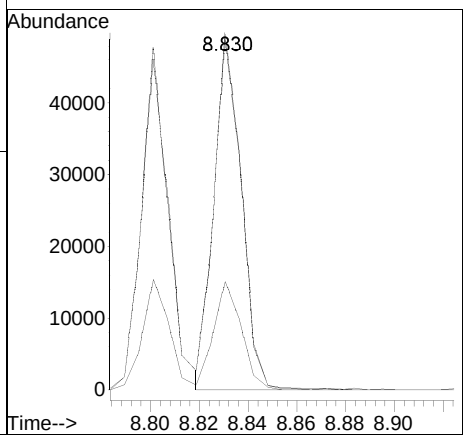


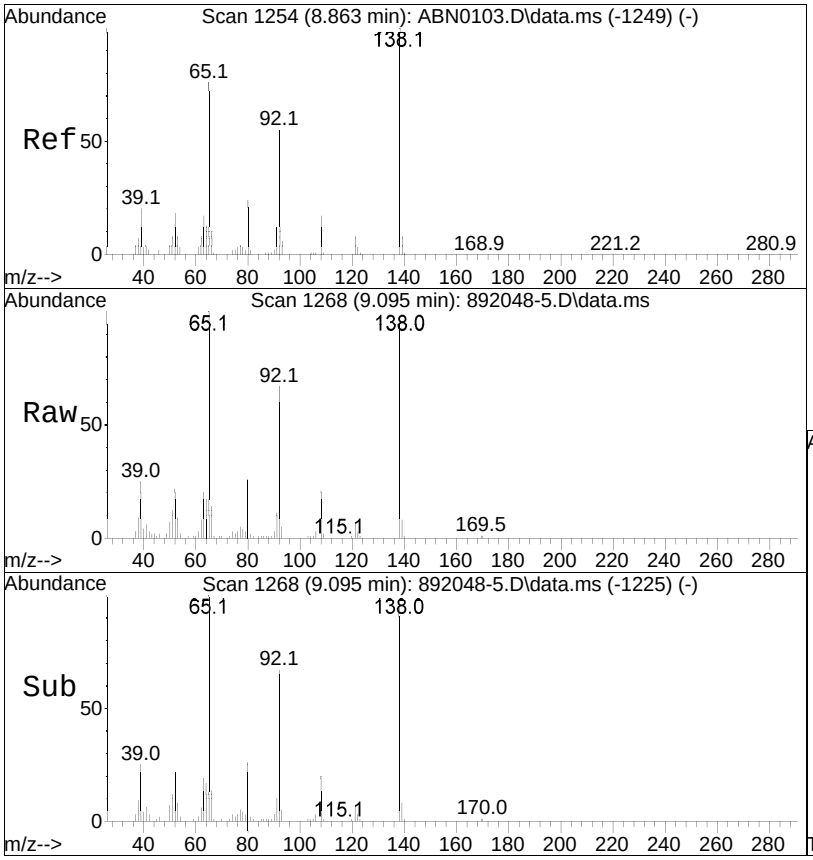


#44
2,4,5-Trichlorophenol
Concen: 3.85 ug/ml
RT: 8.830 min Scan# 1223
Delta R.T. 0.000 min
Lab File: 892048-5.D
Acq: 5 Mar 2024 8:06 am

Tgt Ion:196 Resp: 38415

Ion	Ratio	Lower	Upper
196	100		
200	31.0	25.4	38.0
198	100.7	78.0	117.0

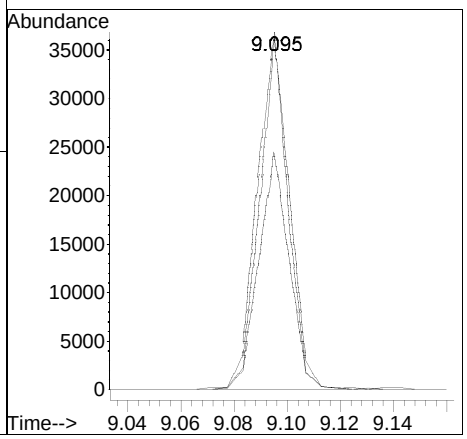


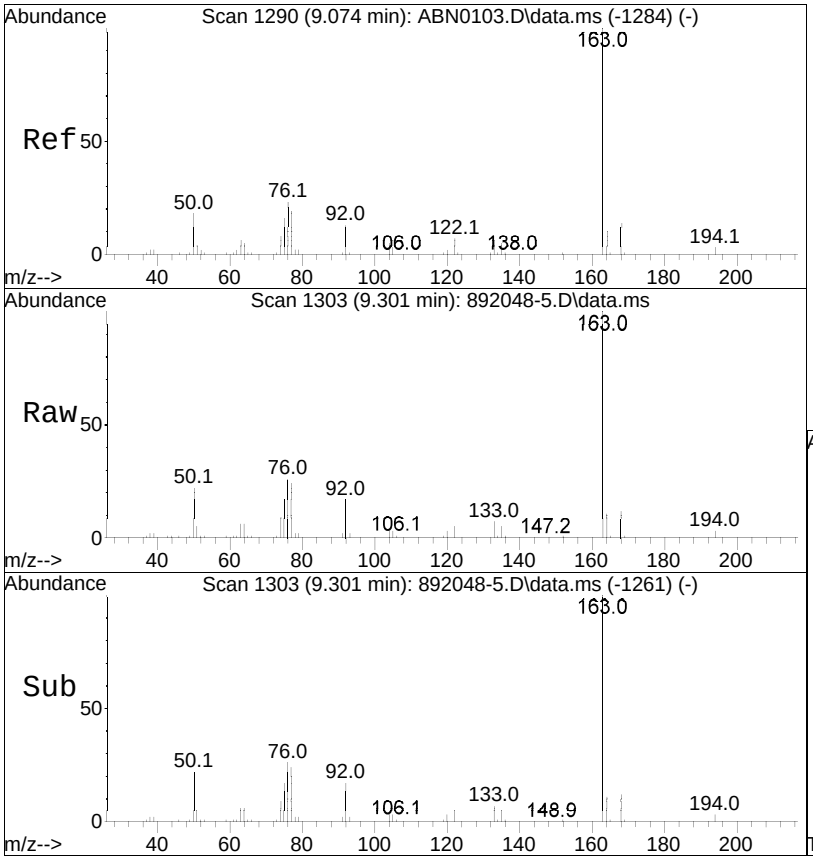


#47
2-Nitroaniline
Concen: 3.54 ug/ml
RT: 9.095 min Scan# 1268
Delta R.T. 0.000 min
Lab File: 892048-5.D
Acq: 5 Mar 2024 8:06 am

Tgt Ion:138 Resp: 27948

Ion	Ratio	Lower	Upper
138	100		
92	69.2	53.5	80.3
65	103.7	86.3	129.5

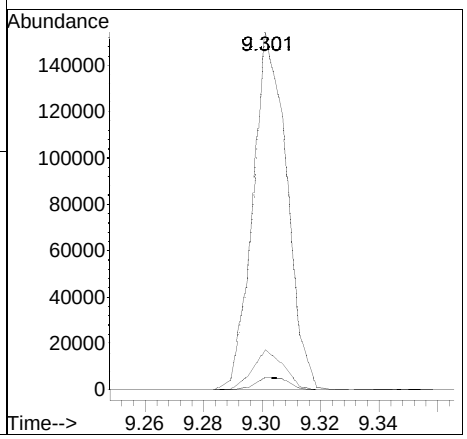


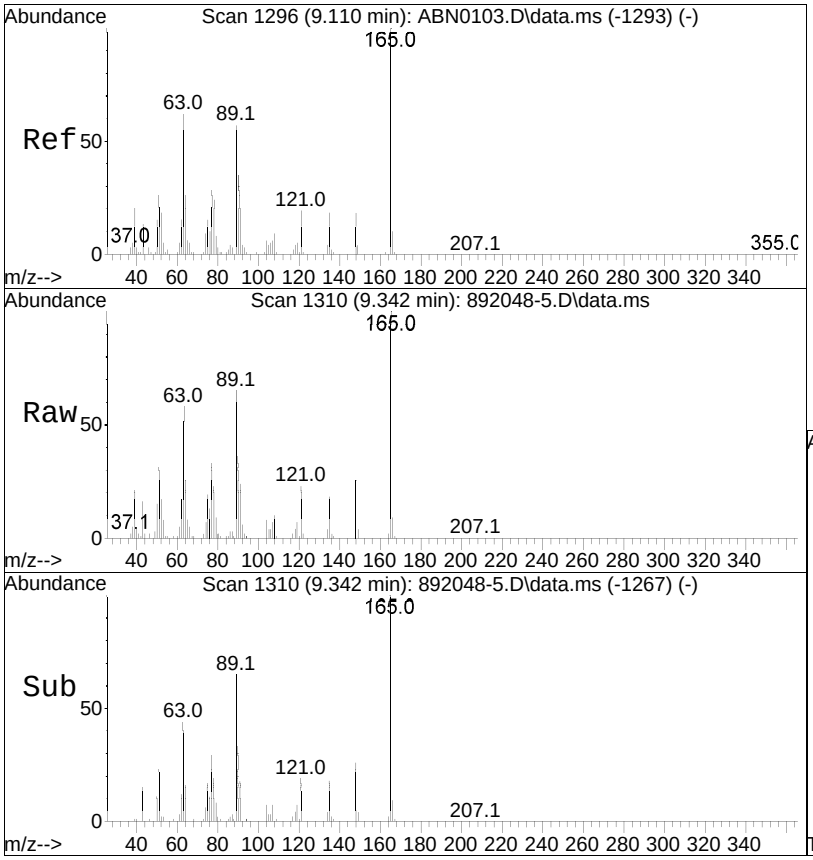


#50
Dimethyl phthalate
Concen: 3.51 ug/ml
RT: 9.301 min Scan# 1303
Delta R.T. -0.006 min
Lab File: 892048-5.D
Acq: 5 Mar 2024 8:06 am

Tgt Ion:163 Resp: 123029

Ion	Ratio	Lower	Upper
163	100		
194	3.6	3.5	5.3
164	10.6	7.9	11.9

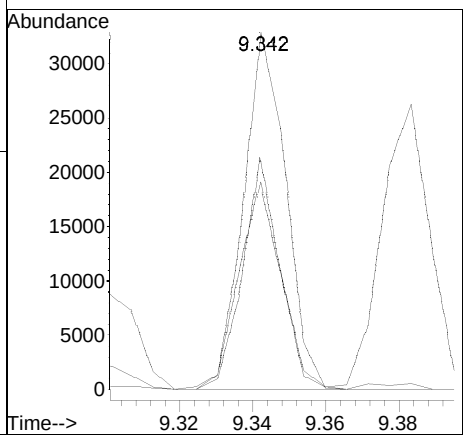


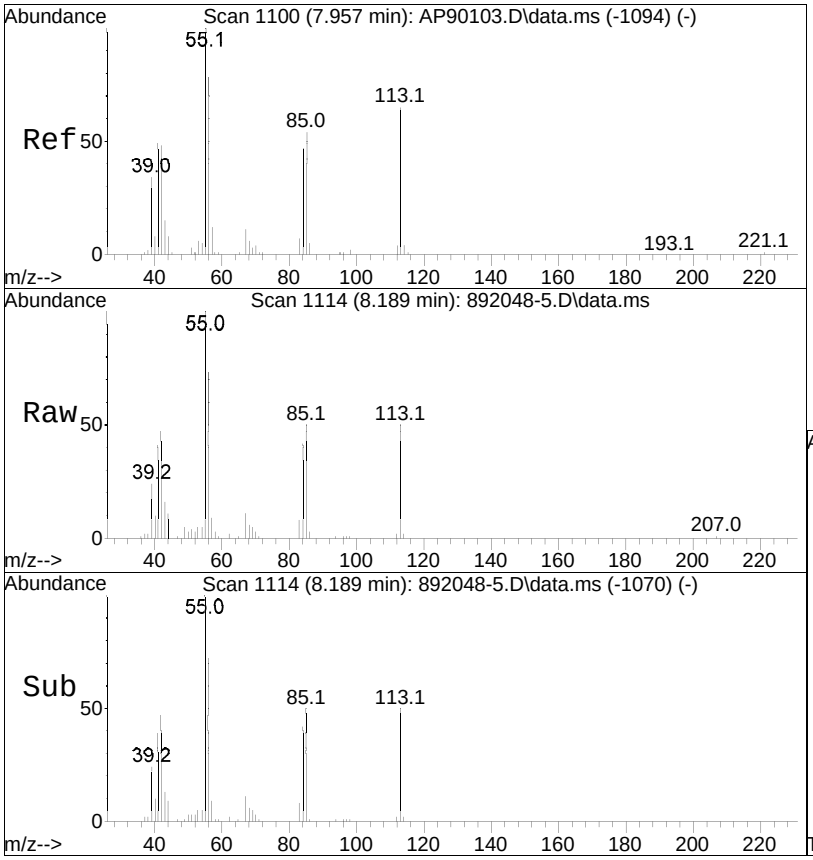


#52
2,6-Dinitrotoluene
Concen: 4.01 ug/ml
RT: 9.342 min Scan# 1310
Delta R.T. 0.000 min
Lab File: 892048-5.D
Acq: 5 Mar 2024 8:06 am

Tgt Ion:165 Resp: 26422

Ion	Ratio	Lower	Upper
165	100		
89	57.8	54.2	81.2
63	57.6	64.2	96.2#

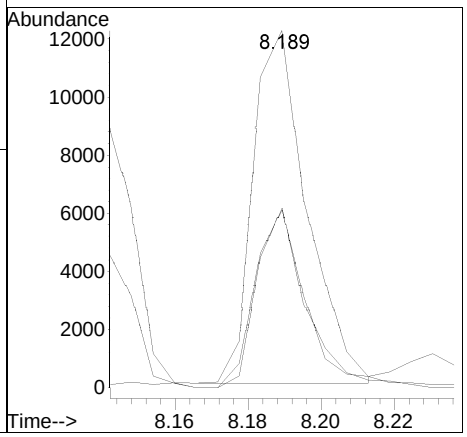


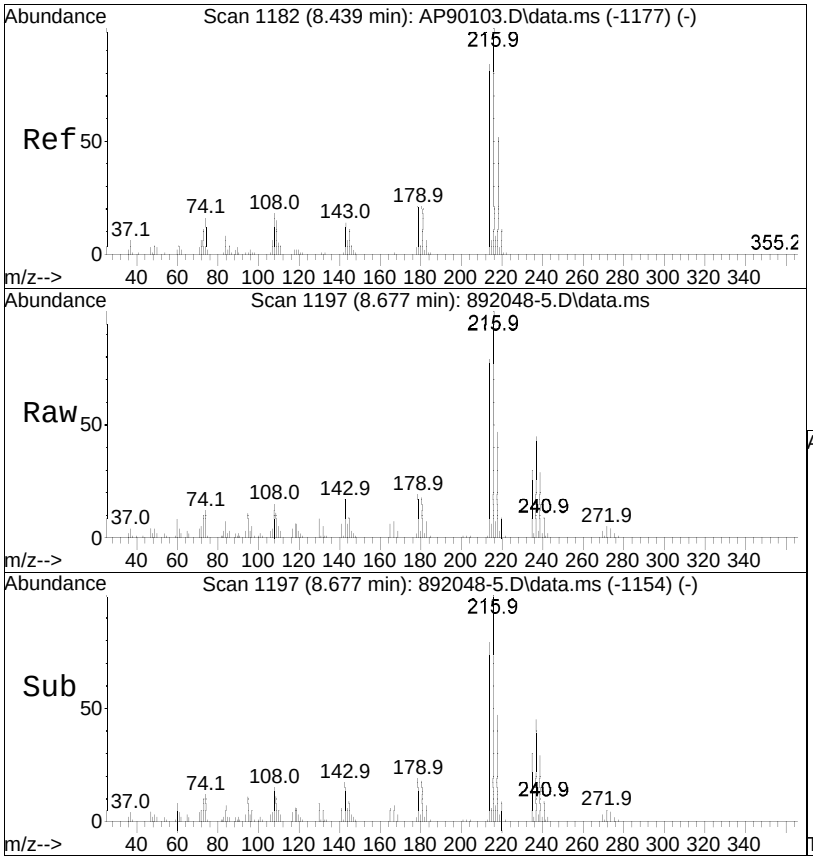


#59
Caprolactam
Concen: 1.91 ug/ml
RT: 8.189 min Scan# 1114
Delta R.T. 0.006 min
Lab File: 892048-5.D
Acq: 5 Mar 2024 8:06 am

Tgt Ion: 55 Resp: 12427

Ion	Ratio	Lower	Upper
55	100		
85	48.7	19.8	29.6#
113	46.7	29.6	44.4#

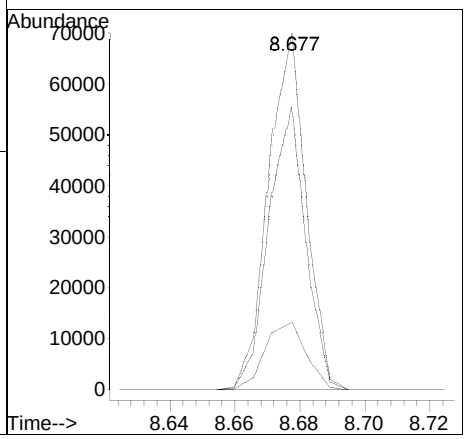


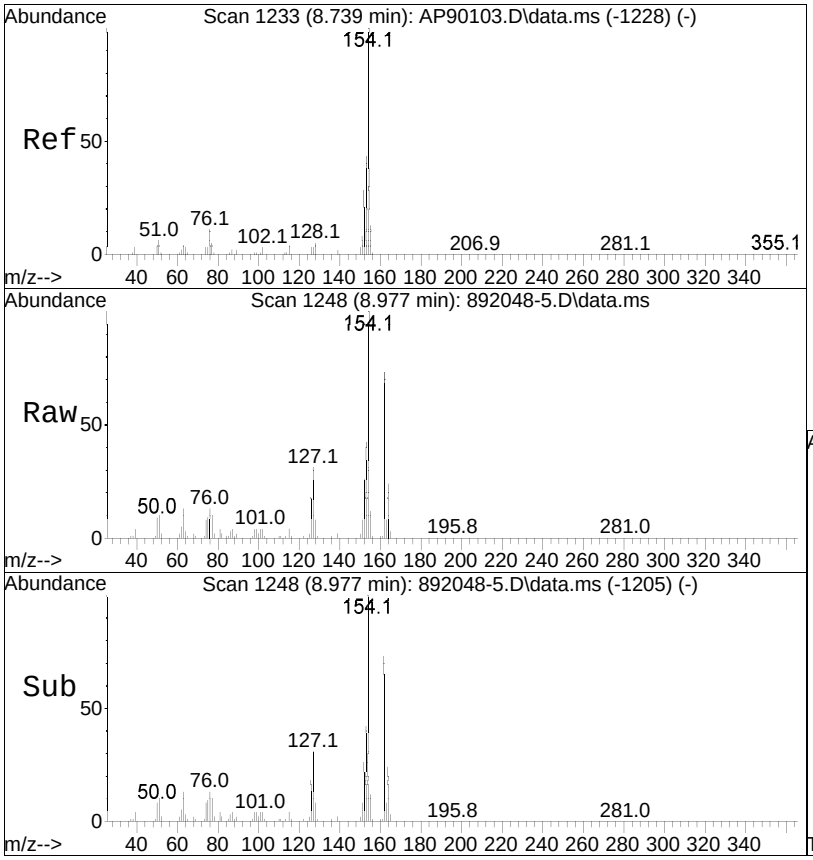


#60
1,2,4,5-Tetrachlorobenzene
Concen: 3.63 ug/ml
RT: 8.677 min Scan# 1197
Delta R.T. 0.000 min
Lab File: 892048-5.D
Acq: 5 Mar 2024 8:06 am

Tgt Ion:216 Resp: 56215

Ion	Ratio	Lower	Upper
216	100		
214	78.1	63.7	95.5
179	20.8	19.0	28.6

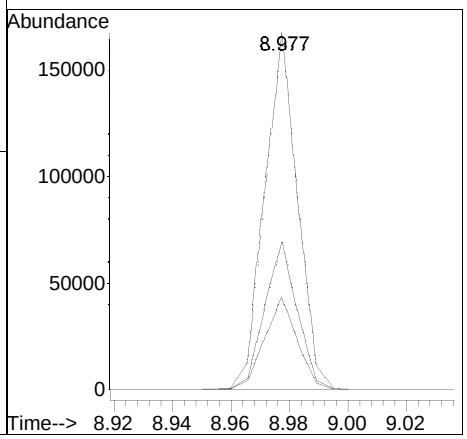


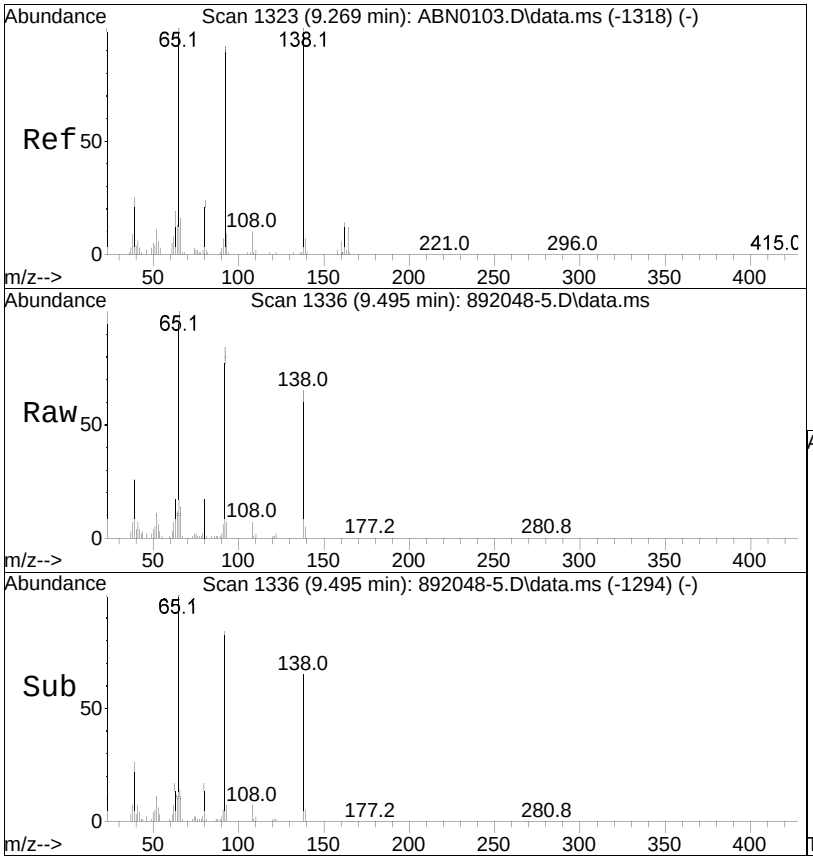


#61
Biphenyl
Concen: 3.40 ug/ml
RT: 8.977 min Scan# 1248
Delta R.T. 0.000 min
Lab File: 892048-5.D
Acq: 5 Mar 2024 8:06 am

Tgt Ion:154 Resp: 129310

Ion	Ratio	Lower	Upper
154	100		
153	41.3	32.3	48.5
152	26.1	22.5	33.7

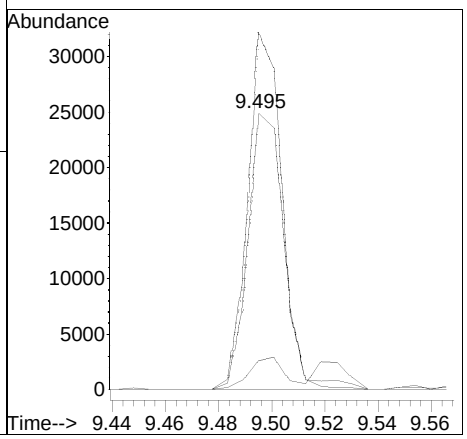


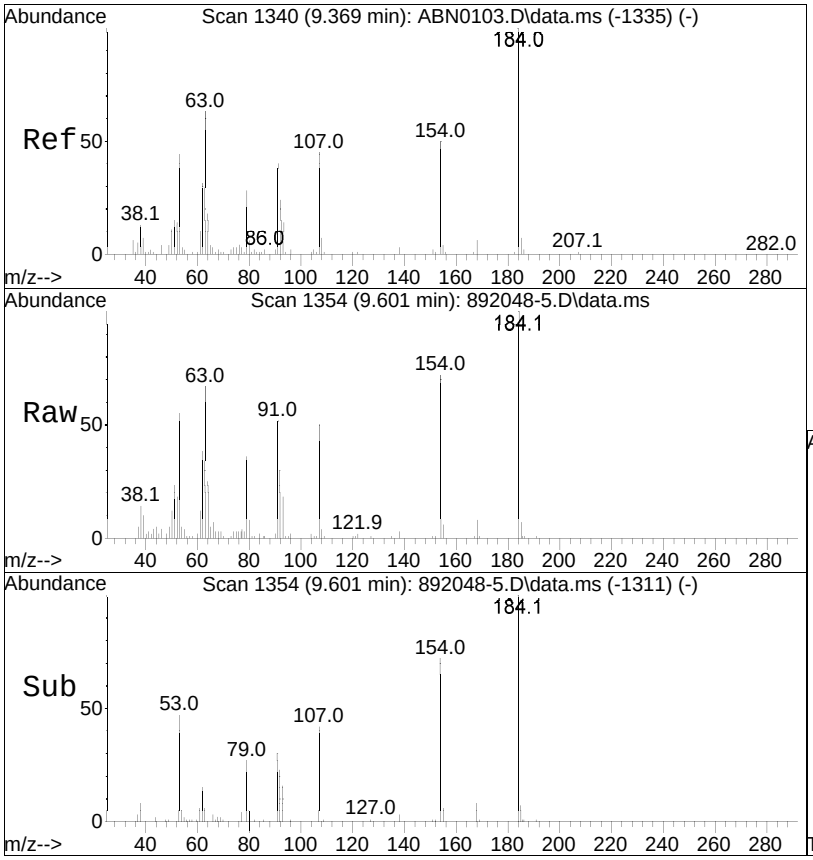


#63
3-Nitroaniline
Concen: 3.08 ug/ml
RT: 9.495 min Scan# 1336
Delta R.T. -0.006 min
Lab File: 892048-5.D
Acq: 5 Mar 2024 8:06 am

Tgt Ion:138 Resp: 22932

Ion	Ratio	Lower	Upper
138	100		
92	125.1	93.4	140.2
108	12.0	9.5	14.3

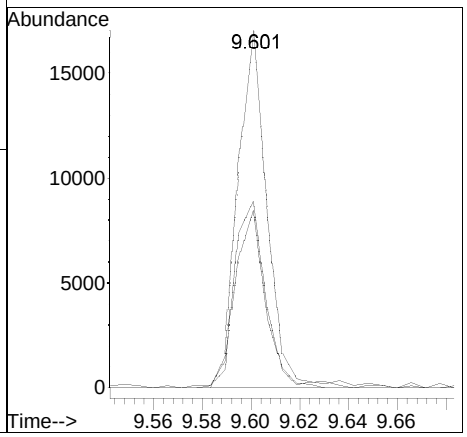


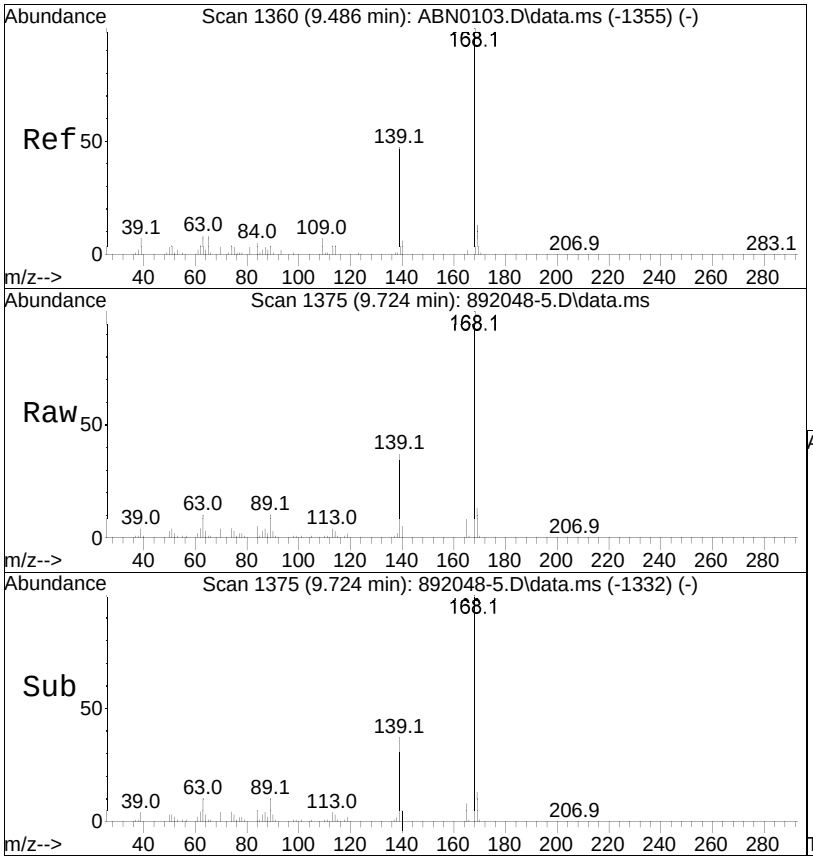


#65
2,4-Dinitrophenol
Concen: 4.48 ug/ml
RT: 9.601 min Scan# 1354
Delta R.T. 0.000 min
Lab File: 892048-5.D
Acq: 5 Mar 2024 8:06 am

Tgt Ion:184 Resp: 14108

Ion	Ratio	Lower	Upper
184	100		
107	51.4	37.7	56.5
91	56.5	46.3	69.5

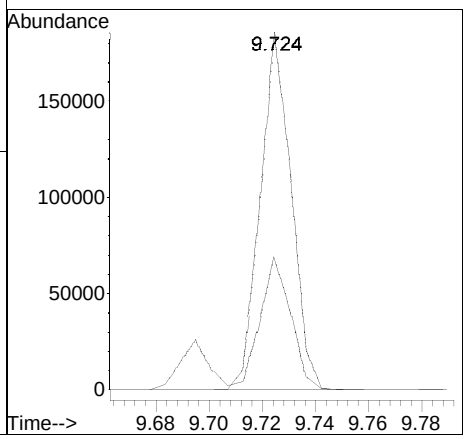


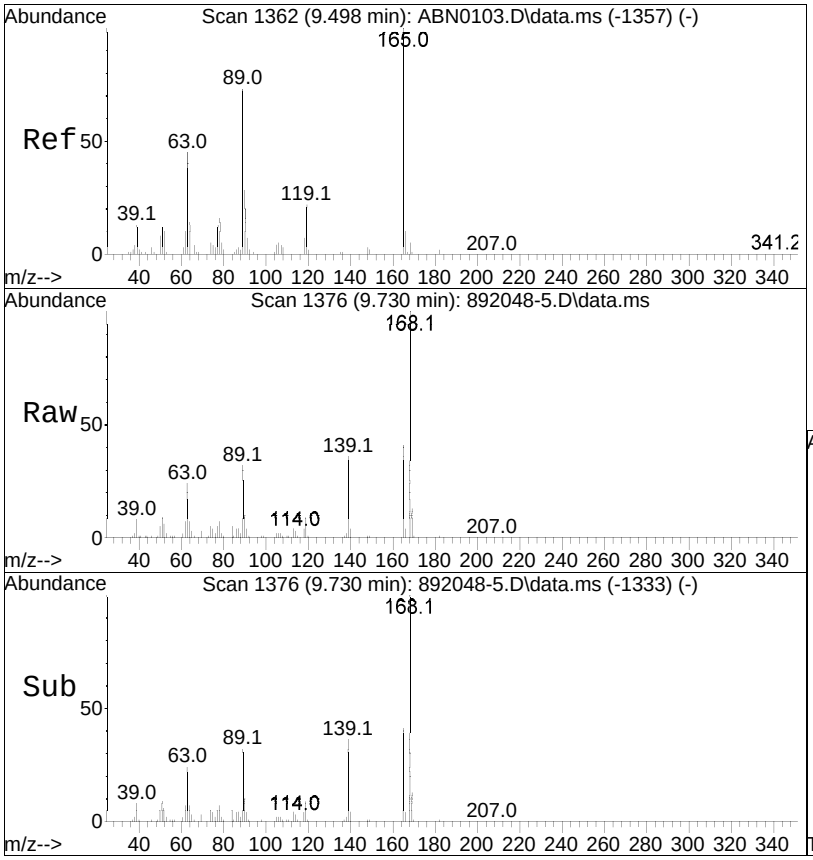


#66
Dibenzofuran
Concen: 3.37 ug/ml
RT: 9.724 min Scan# 1375
Delta R.T. 0.000 min
Lab File: 892048-5.D
Acq: 5 Mar 2024 8:06 am

Tgt Ion:168 Resp: 148032

Ion	Ratio	Lower	Upper
168	100		
139	37.2	31.4	47.2

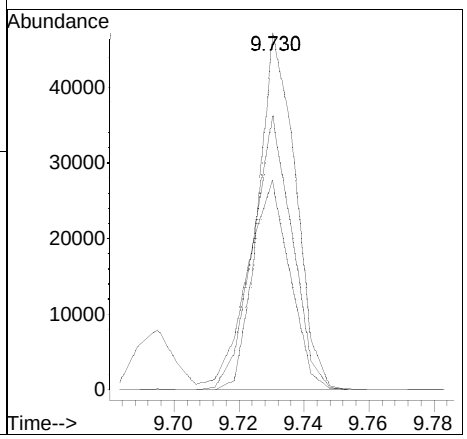


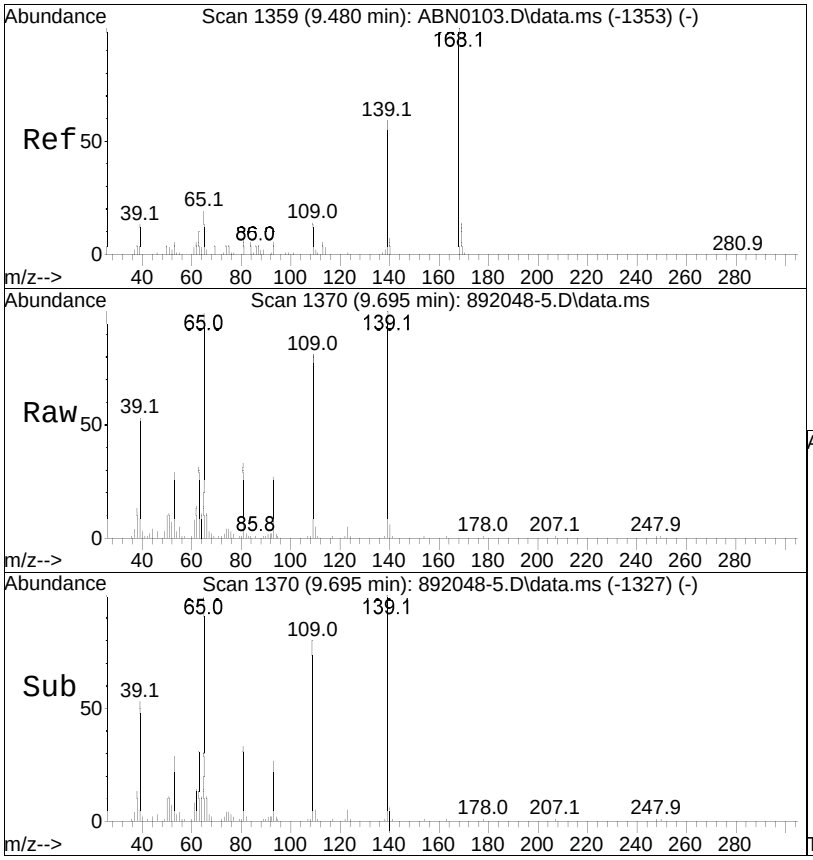


#67
2,4-Dinitrotoluene
Concen: 4.04 ug/ml
RT: 9.730 min Scan# 1376
Delta R.T. 0.000 min
Lab File: 892048-5.D
Acq: 5 Mar 2024 8:06 am

Tgt Ion:165 Resp: 37075

Ion	Ratio	Lower	Upper
165	100		
89	81.7	72.0	108.0
63	68.4	52.7	79.1

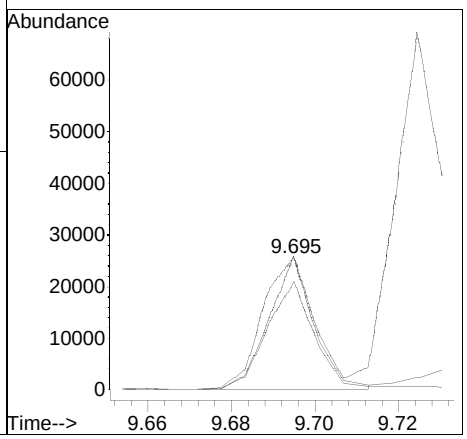


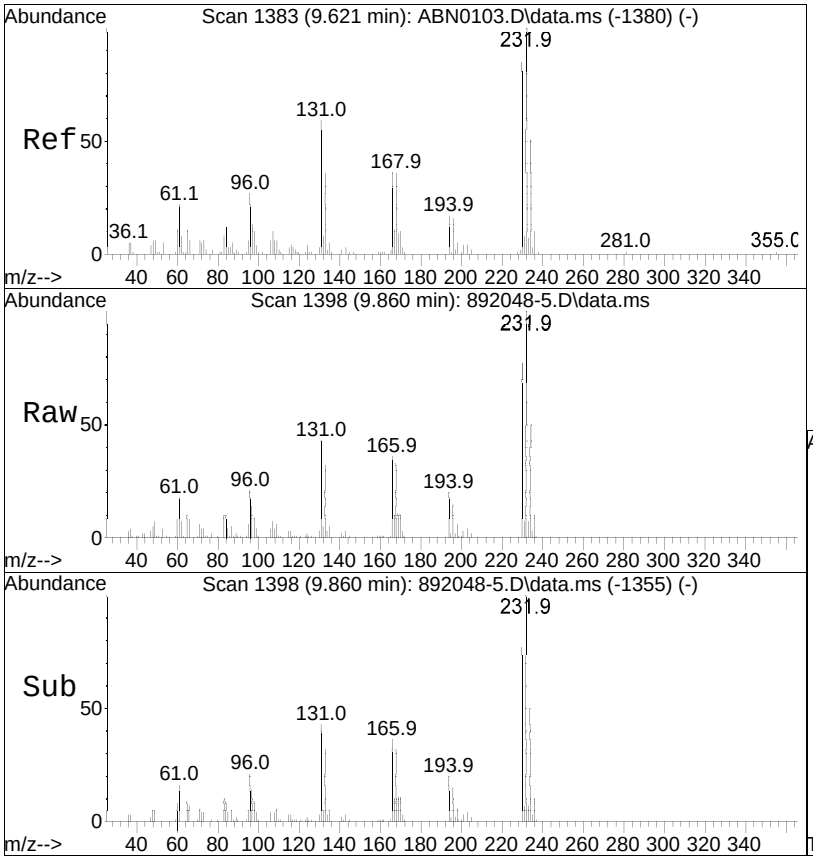


#68
4-Nitrophenol
Concen: 3.24 ug/ml
RT: 9.695 min Scan# 1370
Delta R.T. 0.000 min
Lab File: 892048-5.D
Acq: 5 Mar 2024 8:06 am

Tgt Ion: 65 Resp: 21632

Ion	Ratio	Lower	Upper
65	100		
109	78.5	47.4	71.2#
139	90.4	76.6	115.0

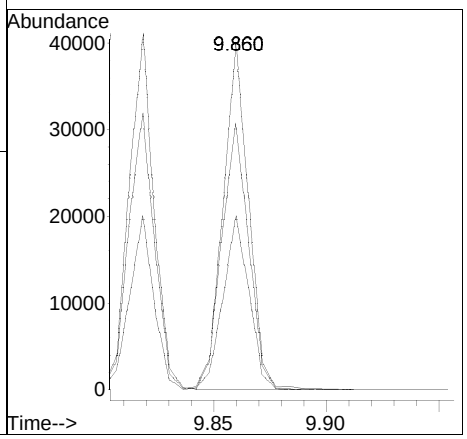


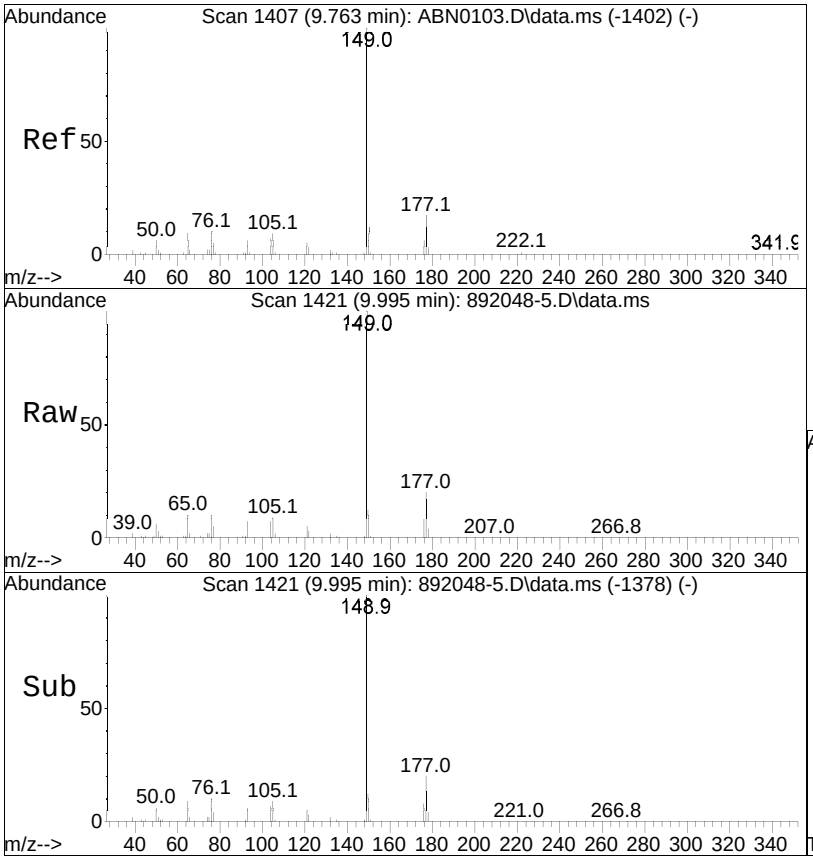


#70
2,3,4,6-Tetrachlorophenol
Concen: 3.62 ug/ml
RT: 9.860 min Scan# 1398
Delta R.T. 0.000 min
Lab File: 892048-5.D
Acq: 5 Mar 2024 8:06 am

Tgt Ion:232 Resp: 31729

Ion	Ratio	Lower	Upper
232	100		
230	81.2	61.8	92.8
234	51.3	36.2	54.2

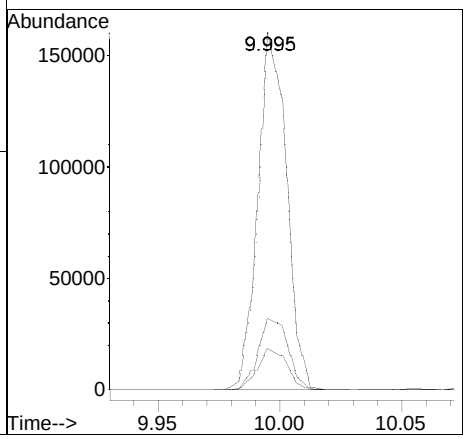


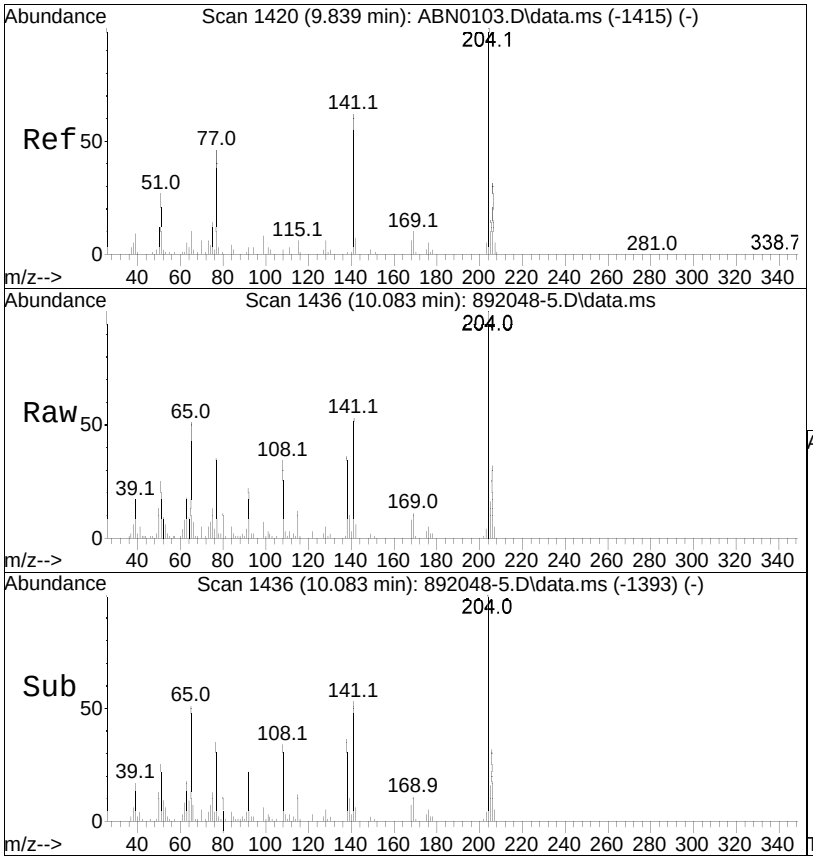


#71
Diethyl phthalate
Concen: 3.52 ug/ml
RT: 9.995 min Scan# 1421
Delta R.T. 0.000 min
Lab File: 892048-5.D
Acq: 5 Mar 2024 8:06 am

Tgt Ion:149 Resp: 129490

Ion	Ratio	Lower	Upper
149	100		
177	21.2	16.1	24.1
150	12.1	9.4	14.2

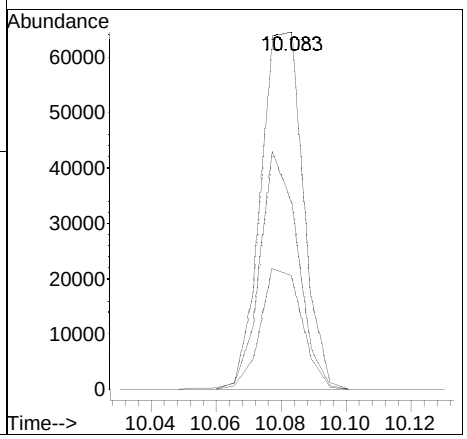


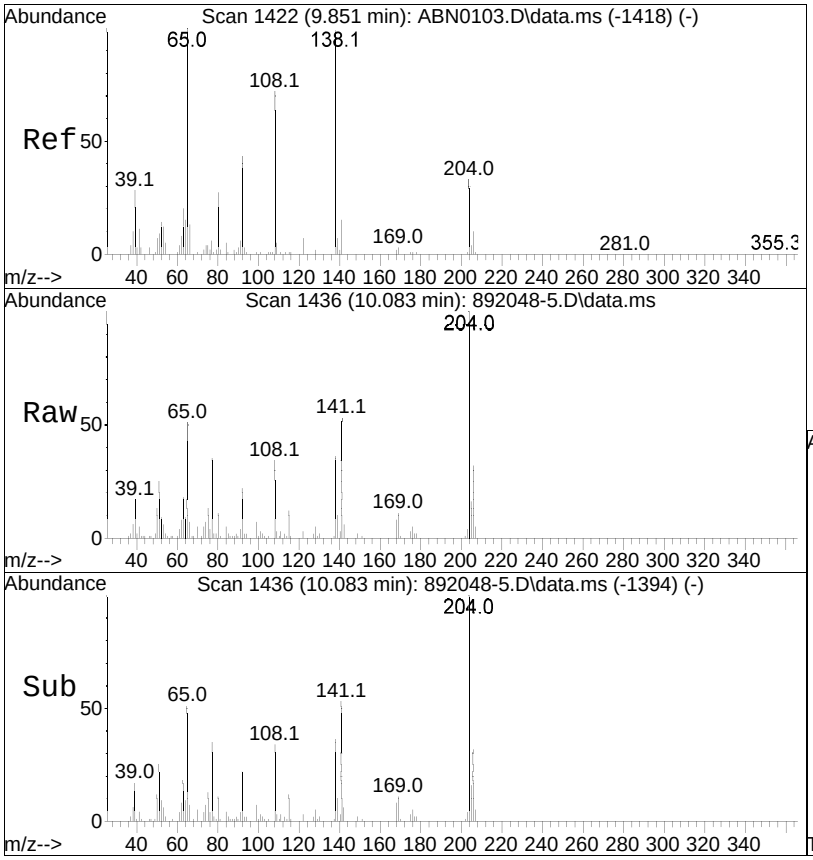


#73
4-Chlorophenyl phenyl ether
Concen: 3.51 ug/ml
RT: 10.083 min Scan# 1436
Delta R.T. 0.000 min
Lab File: 892048-5.D
Acq: 5 Mar 2024 8:06 am

Tgt Ion:204 Resp: 58170

Ion	Ratio	Lower	Upper
204	100		
206	33.3	25.8	38.6
141	59.4	53.6	80.4

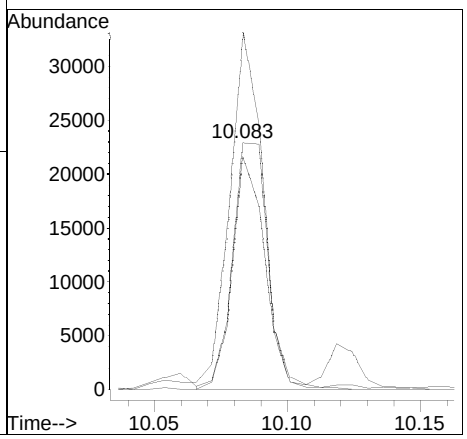


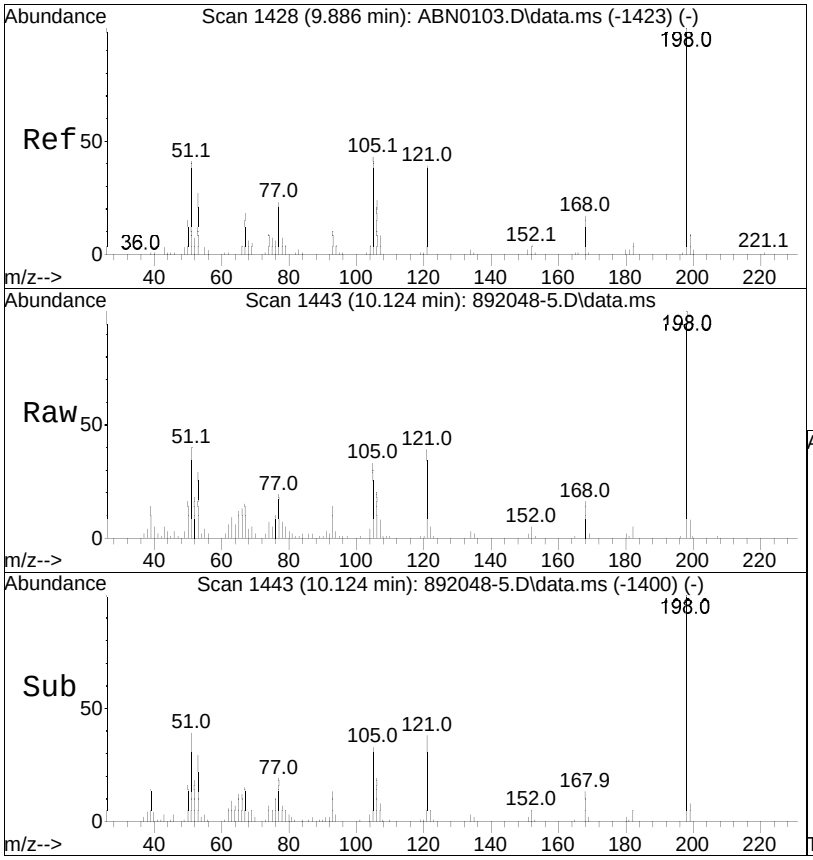


#74
4-Nitroaniline
Concen: 2.83 ug/ml
RT: 10.083 min Scan# 1436
Delta R.T. -0.006 min
Lab File: 892048-5.D
Acq: 5 Mar 2024 8:06 am

Tgt Ion:138 Resp: 21266

Ion	Ratio	Lower	Upper
138	100		
108	85.9	52.1	78.1#
65	139.0	115.0	172.6

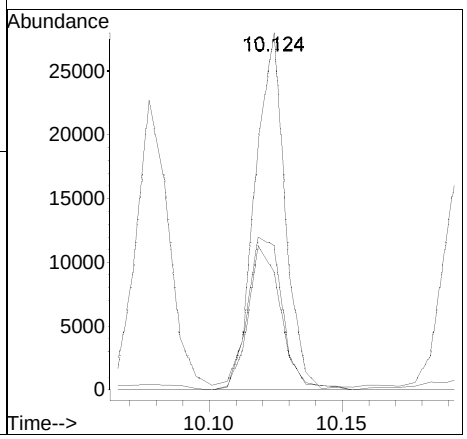


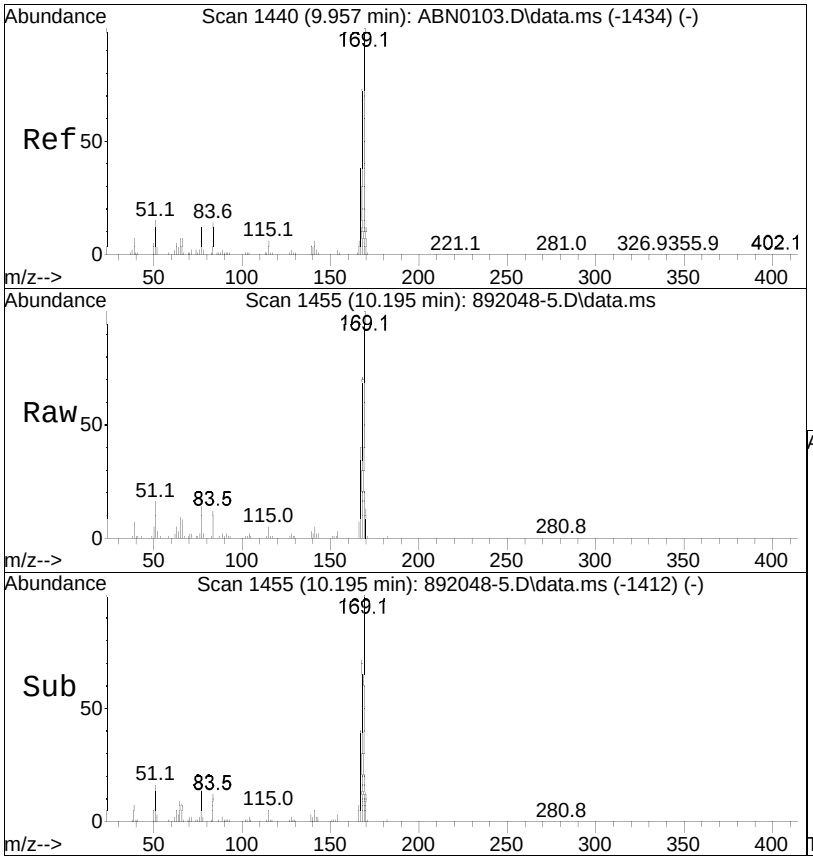


#75
4,6-Dinitro-o-cresol
Concen: 5.12 ug/ml
RT: 10.124 min Scan# 1443
Delta R.T. 0.000 min
Lab File: 892048-5.D
Acq: 5 Mar 2024 8:06 am

Tgt Ion:198 Resp: 22062

Ion	Ratio	Lower	Upper
198	100		
51	48.2	76.0	114.0#
105	44.1	45.6	68.4#

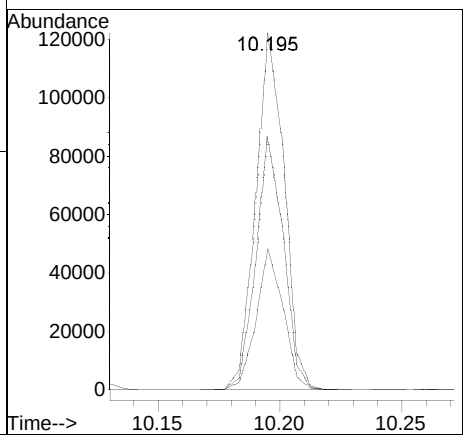


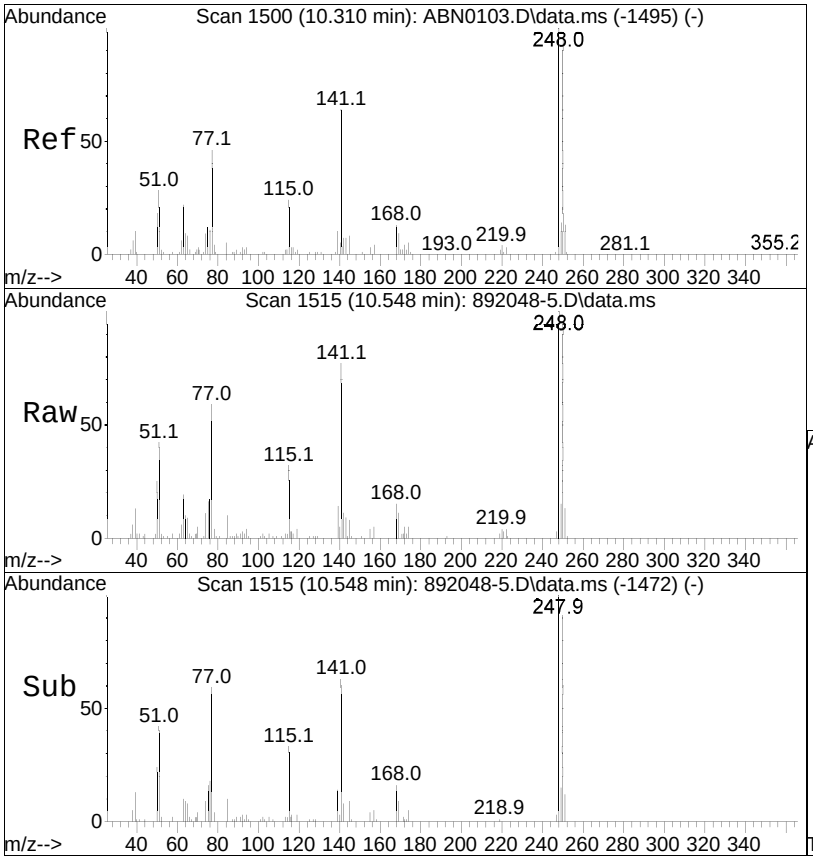


#76
NDPA/DPA
Concen: 3.39 ug/ml
RT: 10.195 min Scan# 1455
Delta R.T. 0.000 min
Lab File: 892048-5.D
Acq: 5 Mar 2024 8:06 am

Tgt Ion:169 Resp: 98902

Ion	Ratio	Lower	Upper
169	100		
168	68.6	54.0	81.0
167	37.6	28.6	42.8

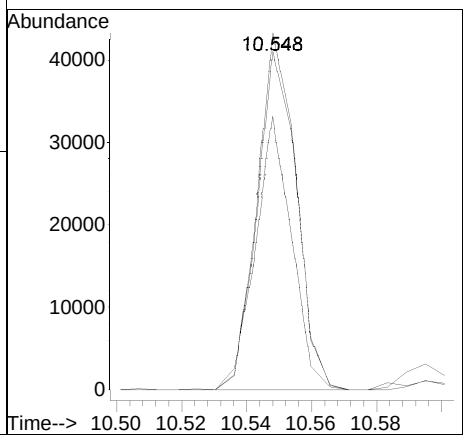


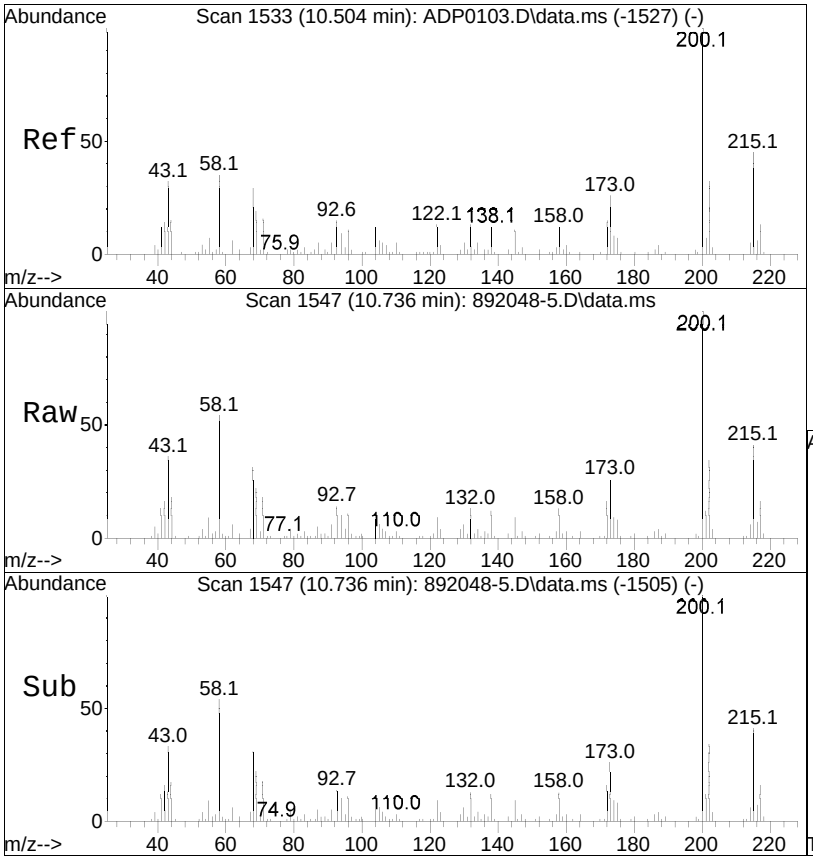


#79
4-Bromophenyl phenyl ether
Concen: 3.72 ug/ml
RT: 10.548 min Scan# 1515
Delta R.T. 0.000 min
Lab File: 892048-5.D
Acq: 5 Mar 2024 8:06 am

Tgt Ion:248 Resp: 35859

Ion	Ratio	Lower	Upper
248	100		
141	71.9	76.6	114.8#
250	96.6	77.3	115.9

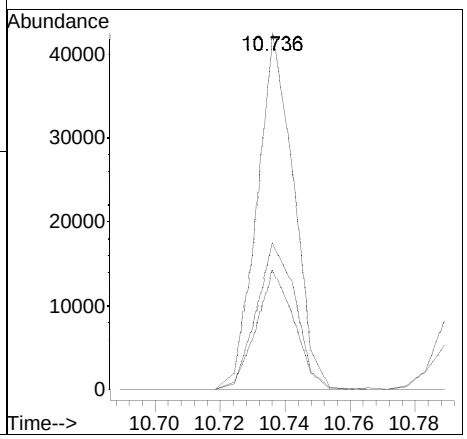


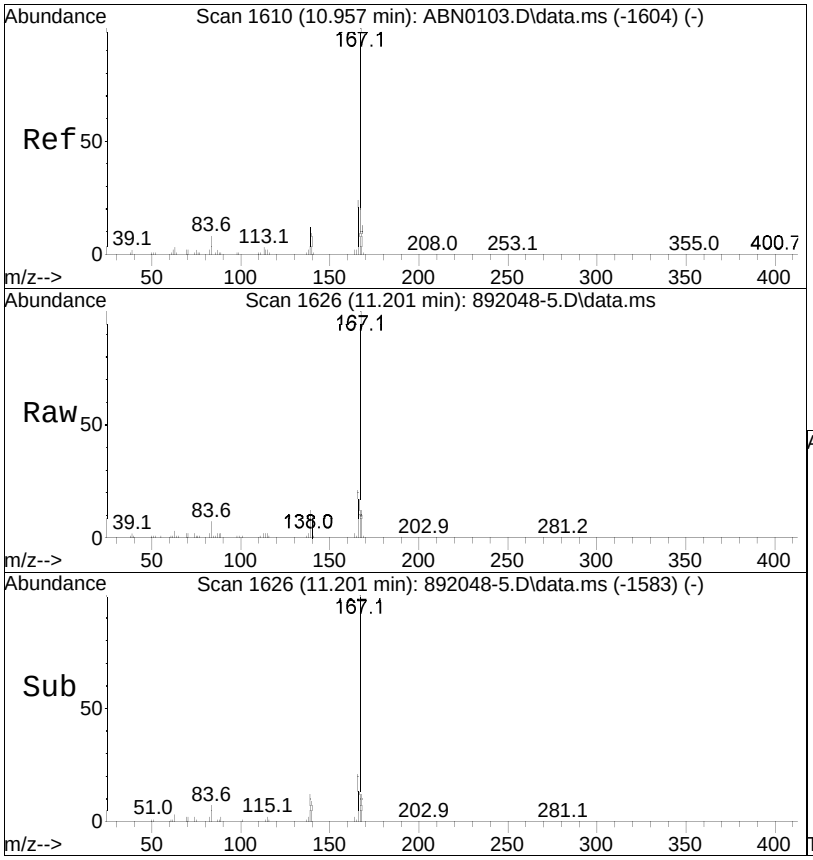


#86
Atrazine
Concen: 3.67 ug/ml
RT: 10.736 min Scan# 1547
Delta R.T. -0.000 min
Lab File: 892048-5.D
Acq: 5 Mar 2024 8:06 am

Tgt Ion:200 Resp: 32887

Ion	Ratio	Lower	Upper
200	100		
202	35.1	25.8	38.6
215	44.1	40.2	60.4

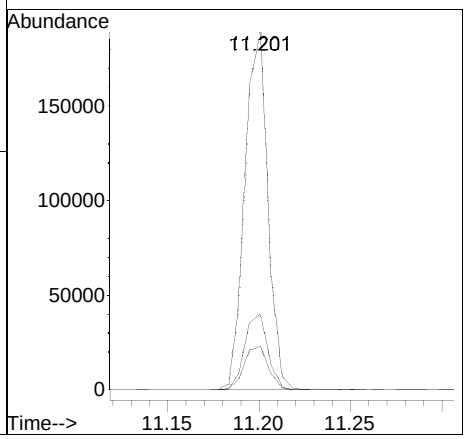


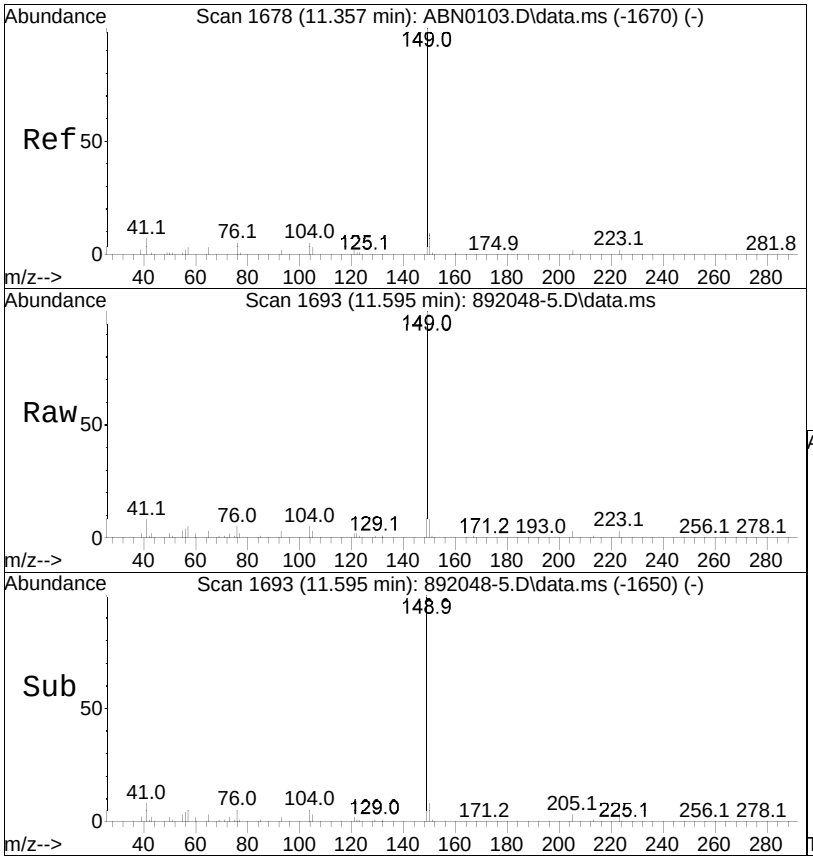


#90
Carbazole
Concen: 3.40 ug/ml
RT: 11.201 min Scan# 1626
Delta R.T. 0.000 min
Lab File: 892048-5.D
Acq: 5 Mar 2024 8:06 am

Tgt Ion:167 Resp: 164048

Ion	Ratio	Lower	Upper
167	100		
168	12.9	10.6	15.8
166	21.5	17.4	26.0

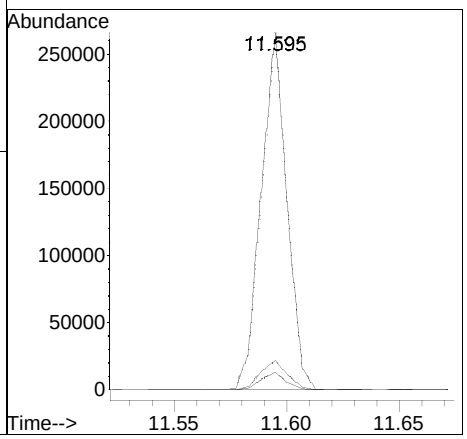


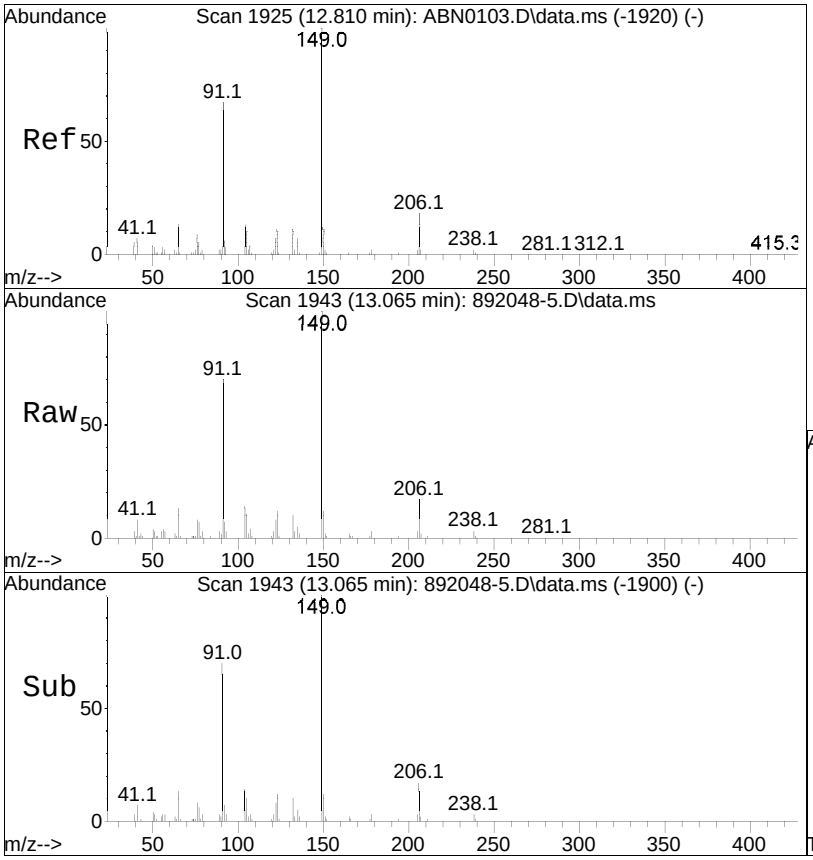


#91
Di-n-butylphthalate
Concen: 3.34 ug/ml
RT: 11.595 min Scan# 1693
Delta R.T. 0.000 min
Lab File: 892048-5.D
Acq: 5 Mar 2024 8:06 am

Tgt Ion:149 Resp: 206840

Ion	Ratio	Lower	Upper
149	100		
150	8.8	7.0	10.6
104	4.9	4.5	6.7

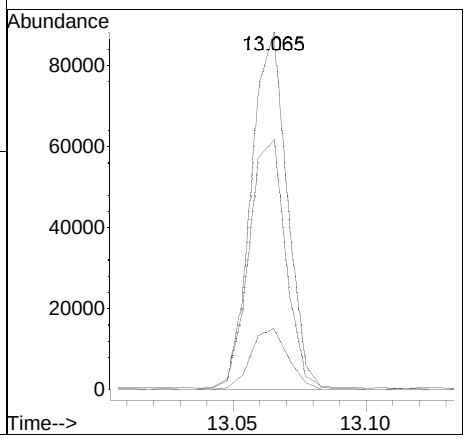


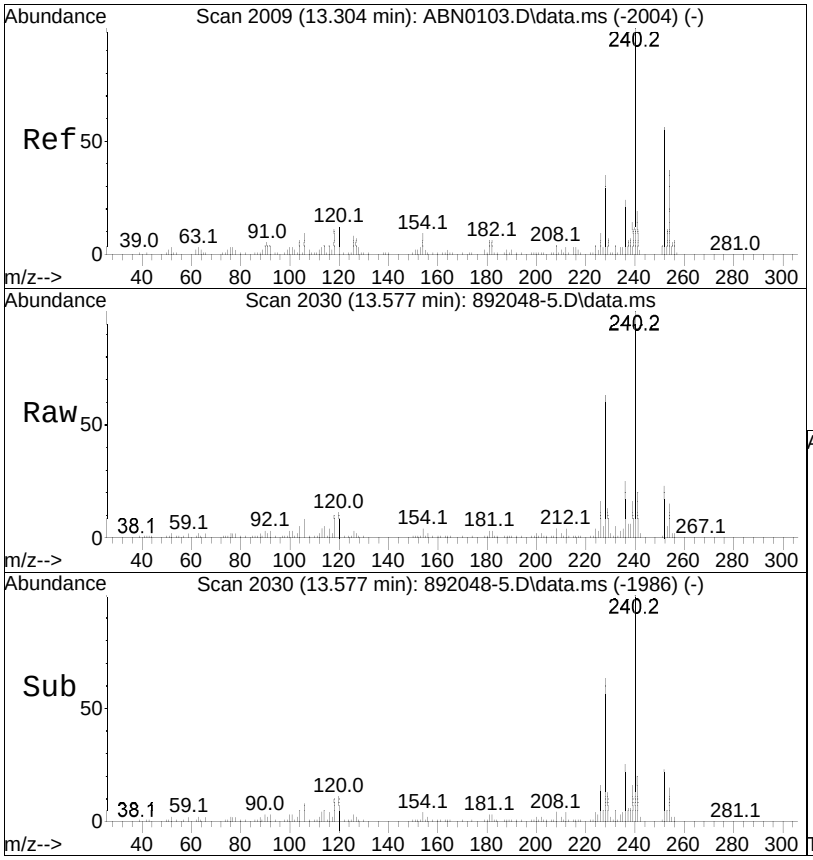


#96
Butyl benzyl phthalate
Concen: 3.11 ug/ml
RT: 13.065 min Scan# 1943
Delta R.T. 0.000 min
Lab File: 892048-5.D
Acq: 5 Mar 2024 8:06 am

Tgt Ion:149 Resp: 82049

Ion	Ratio	Lower	Upper
149	100		
91	72.0	63.3	94.9
206	17.7	13.9	20.9

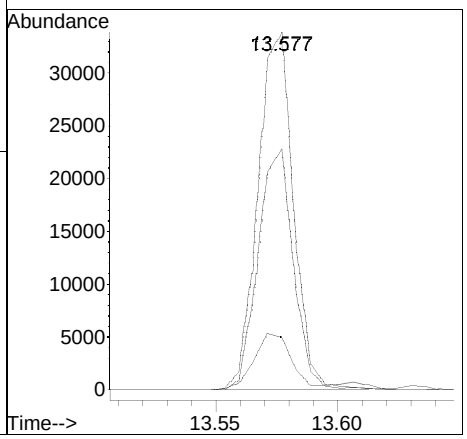


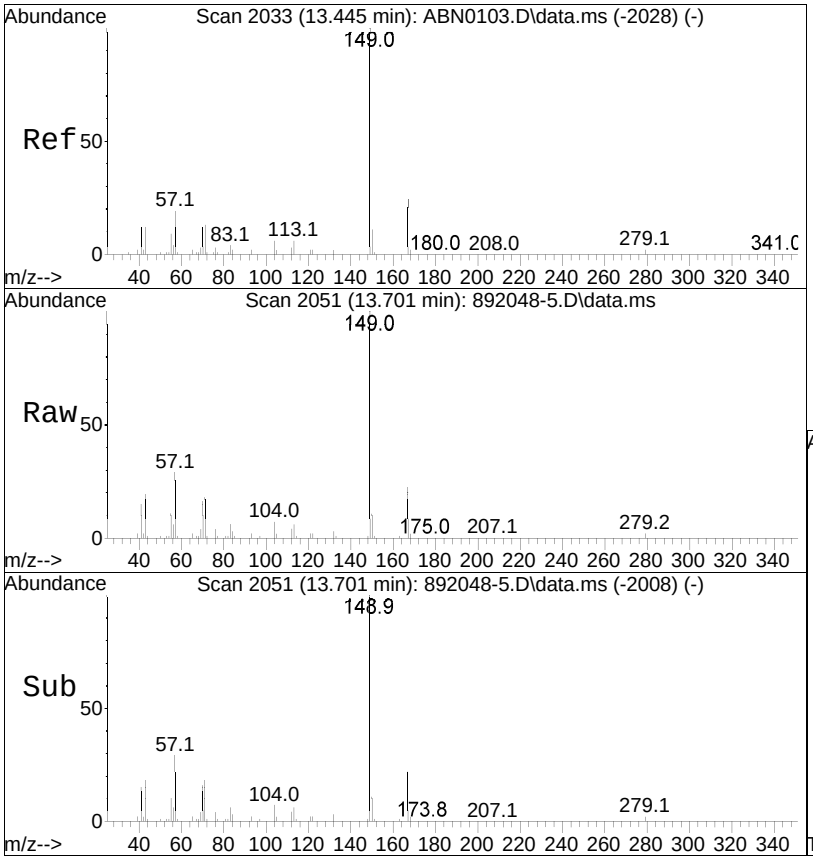


#105
3,3'-Dichlorobenzidine
Concen: 1.95 ug/ml
RT: 13.577 min Scan# 2030
Delta R.T. 0.006 min
Lab File: 892048-5.D
Acq: 5 Mar 2024 8:06 am

Tgt Ion:252 Resp: 33900

Ion	Ratio	Lower	Upper
252	100		
126	17.0	14.5	21.7
254	67.1	51.2	76.8

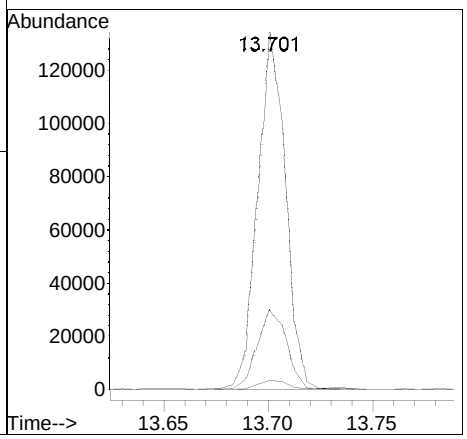


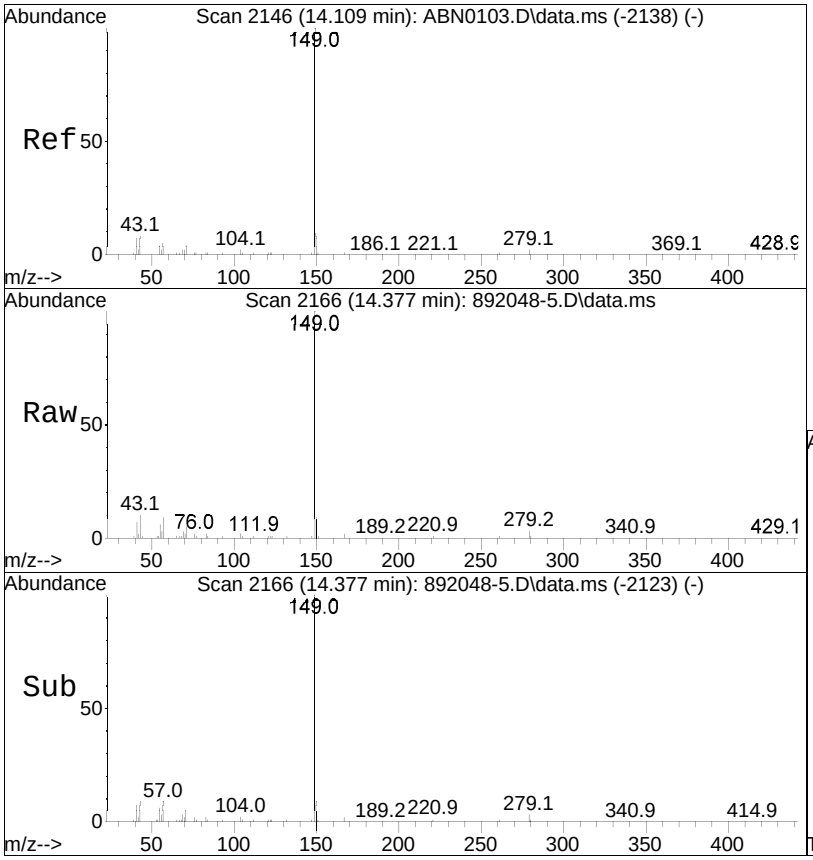


#107
Bis(2-ethylhexyl)phthalate
Concen: 3.75 ug/ml
RT: 13.701 min Scan# 2051
Delta R.T. 0.000 min
Lab File: 892048-5.D
Acq: 5 Mar 2024 8:06 am

Tgt Ion:149 Resp: 122592

Ion	Ratio	Lower	Upper
149	100		
167	24.0	22.1	33.1
279	2.5	3.0	4.4#

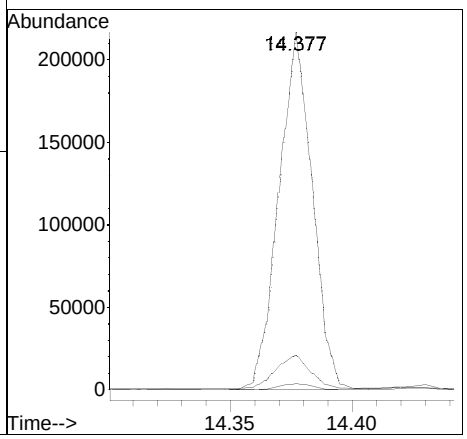




#108
Di-n-octylphthalate
Concen: 3.69 ug/ml
RT: 14.377 min Scan# 2166
Delta R.T. 0.000 min
Lab File: 892048-5.D
Acq: 5 Mar 2024 8:06 am

Tgt Ion:149 Resp: 203560

Ion	Ratio	Lower	Upper
149	100		
43	9.8	18.8	28.2#
167	1.8	1.3	1.9



Manual Integration Report

Data Path	: I:\8270\SV106\240304nlvi\	QMethod	: FS230902SV106.m
Data File	: 892048-5.D	Operator	: SV106:ljg
Date Inj'd	: 3/5/2024 8:06 am	Instrument	: SV 106
Sample	: WG1892048-5,32,,gmr	Quant Date	: 3/5/2024 11:23 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240305lvi\
Data File : 892048-7.D
Acq On : 5 Mar 2024 7:46 pm
Operator : SV106:ek
Sample : WG1892048-7,32,,HNY
Misc : WG1892411,WG1892048,ical20337
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Mar 05 20:15:59 2024
Quant Method : I:\8270\sv106\240305lvi\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Mar 05 20:07:23 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv106\240305lvi\ABN0305.D
: 2 - I:\8270\sv106\240305lvi\ADP0305.D
: 3 - I:\8270\sv106\240305lvi\AP90305.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	6.307	152	40972	4.000	ug/ml	0.00
Standard Area 1 = 43778			Recovery = 93.59%			
27) IS2_1,4-Dichlorobenzen...	6.307	152	40972	4.000	ug/ml	0.00
Standard Area 3 = 42624			Recovery = 96.12%			
34) IS1_Naphthalene-d8	7.742	136	152480	4.000	ug/ml	# 0.00
Standard Area 1 = 156136			Recovery = 97.66%			
54) IS2_Naphthalene-d8	7.742	136	152480	4.000	ug/ml	# 0.00
Standard Area 3 = 154118			Recovery = 98.94%			
62) IS1_Acenaphthene-d10	9.507	164	96777	4.000	ug/ml	0.00
Standard Area 1 = 97665			Recovery = 99.09%			
82) IS2_Acenaphthene-d10	9.507	164	96777	4.000	ug/ml	0.00
Standard Area 3 = 90309			Recovery = 107.16%			
85) IS3_Acenaphthene-d10	9.507	164	96777	4.000	ug/ml	0.00
Standard Area 2 = 93275			Recovery = 103.75%			
87) IS1_Phenanthrene-d10	10.936	188	182969	4.000	ug/ml	0.00
Standard Area 1 = 187583			Recovery = 97.54%			
99) IS3_Phenanthrene-d10	10.936	188	182969	4.000	ug/ml	0.00
Standard Area 2 = 186356			Recovery = 98.18%			
103) IS1_Chrysene-d12	13.548	240	163373	4.000	ug/ml	0.00
Standard Area 1 = 165909			Recovery = 98.47%			
112) IS1_Perylene-d12	15.007	264	194115	4.000	ug/ml	0.00
Standard Area 1 = 188234			Recovery = 103.12%			
System Monitoring Compounds						
4) 2-Fluorophenol	4.319	112	34255	2.998	ug/ml	0.01
Spiked Amount 5.000	Range 15 - 110		Recovery = 59.96%			
7) Phenol-d6	5.948	99	40403	2.745	ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 54.90%			
19) Nitrobenzene-d5	6.972	82	22807	1.709	ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 68.36%			
45) 2-Fluorobiphenyl	8.872	172	47129	1.619	ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 64.76%			
78) 2,4,6-Tribromophenol	10.272	330	14632	3.295	ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 65.90%			
95) 4-Terphenyl-d14	12.513	244	62767	1.564	ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 62.56%			

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240305lvi\
Data File : 892048-7.D
Acq On : 5 Mar 2024 7:46 pm
Operator : SV106:ek
Sample : WG1892048-7,32,,HNY
Misc : WG1892411,WG1892048,ical20337
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Mar 05 20:15:59 2024
Quant Method : I:\8270\sv106\240305lvi\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Mar 05 20:07:23 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv106\240305lvi\ABN0305.D
: 2 - I:\8270\sv106\240305lvi\ADP0305.D
: 3 - I:\8270\sv106\240305lvi\AP90305.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Target Compounds						Qvalue
2) n-Nitrosodimethylamine	1.960	74	20444	2.947	ug/ml#	68
3) Pyridine	2.013	79	16534	1.403	ug/ml#	67
5) Aniline	5.895	93	35632	1.838	ug/ml	99
6) 2-Chlorophenol	6.042	128	43527	3.335	ug/ml	97
8) Phenol	5.960	94	44679	2.868	ug/ml	96
9) Bis(2-chloroethyl)ether	6.031	93	40667	3.250	ug/ml#	75
10) 1,3-Dichlorobenzene	6.231	146	45467	3.038	ug/ml	96
11) 1,4-Dichlorobenzene	6.325	146	45788	2.974	ug/ml	99
12) 1,2-Dichlorobenzene	6.507	146	43611	2.975	ug/ml	100
13) Benzyl alcohol	6.525	79	35816	3.257	ug/ml	96
14) Bis(2-chloroisopropyl)...	6.701	45	63836	3.463	ug/ml#	58
15) 2-Methylphenol	6.707	108	37393	3.209	ug/ml	97
17) n-Nitrosodi-n-propylamine	6.854	70	31757	3.358	ug/ml	95
18) 3-Methylphenol/4-Methy...	6.889	108	43566	3.564	ug/ml#	93
20) Nitrobenzene	6.995	77	54885	4.139	ug/ml	96
21) Isophorone	7.278	82	85315	3.361	ug/ml	94
22) 2-Nitrophenol	7.354	139	22639	4.268	ug/ml#	94
23) 2,4-Dimethylphenol	7.460	107	37256	2.840	ug/ml	95
24) Bis(2-chloroethoxy)met...	7.554	93	52391	3.295	ug/ml	97
25) 2,4-Dichlorophenol	7.625	162	40166	3.646	ug/ml	94
26) 1,2,4-Trichlorobenzene	7.701	180	40971	3.239	ug/ml	97
28) Benzaldehyde	5.725	105	37622	3.957	ug/ml	97
29) Acetophenone	6.813	105	64017	3.134	ug/ml#	81
36) Benzoic Acid	7.548	105	37553	5.193	ug/ml	97
37) 4-Chloroaniline	7.854	65	17083M3	3.394	ug/ml	
39) p-Chloro-m-cresol	8.383	107	42586	3.833	ug/ml	97
42) Hexachlorocyclopentadiene	8.660	237	22830	2.731	ug/ml	98
43) 2,4,6-Trichlorophenol	8.783	196	32087	4.036	ug/ml	92
44) 2,4,5-Trichlorophenol	8.813	196	35319	4.130	ug/ml	99
47) 2-Nitroaniline	9.078	138	20075	3.040	ug/ml	96
50) Dimethyl phthalate	9.283	163	106440	3.546	ug/ml#	96
52) 2,6-Dinitrotoluene	9.325	165	23465	4.144	ug/ml#	82
59) Caprolactam	8.178	55	15696	2.808	ug/ml#	85
60) 1,2,4,5-Tetrachloroben...	8.660	216	45919	3.462	ug/ml	98
61) Biphenyl	8.960	154	111519	3.418	ug/ml	99
63) 3-Nitroaniline	9.477	138	18596	2.686	ug/ml#	97
65) 2,4-Dinitrophenol	9.583	184	16542	5.345	ug/ml	94

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240305lvi\
Data File : 892048-7.D
Acq On : 5 Mar 2024 7:46 pm
Operator : SV106:ek
Sample : WG1892048-7,32,,HNY
Misc : WG1892411,WG1892048,ical20337
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Mar 05 20:15:59 2024
Quant Method : I:\8270\sv106\240305lvi\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Mar 05 20:07:23 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv106\240305lvi\ABN0305.D
: 2 - I:\8270\sv106\240305lvi\ADP0305.D
: 3 - I:\8270\sv106\240305lvi\AP90305.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
66) Dibenzofuran	9.707	168	128694	3.147	ug/ml	97
67) 2,4-Dinitrotoluene	9.713	165	32819	3.864	ug/ml	99
68) 4-Nitrophenol	9.677	65	23594	3.716	ug/ml#	91
70) 2,3,4,6-Tetrachlorophenol	9.842	232	29786	3.651	ug/ml	99
71) Diethyl phthalate	9.977	149	104628	3.056	ug/ml	96
73) 4-Chlorophenyl phenyl ...	10.060	204	50035	3.245	ug/ml	90
74) 4-Nitroaniline	10.066	138	10220	1.463	ug/ml	89
75) 4,6-Dinitro-o-cresol	10.101	198	20384	5.086	ug/ml#	67
76) NDPA/DPA	10.177	169	87098	3.204	ug/ml	99
77) Azobenzene	10.207	77	97480	3.054	ug/ml	95
79) 4-Bromophenyl phenyl e...	10.530	248	29305	3.266	ug/ml#	87
84) Pentachloronitrobenzene	10.783	237	15848	3.966	ug/ml#	78
86) Atrazine	10.719	200	29082	3.488	ug/ml	94
90) Carbazole	11.177	167	150255	3.315	ug/ml	100
91) Di-n-butylphthalate	11.571	149	178290	3.072	ug/ml	98
93) Benzidine	0.000		0	N.D.		
96) Butyl benzyl phthalate	13.036	149	84510	3.412	ug/ml	94
101) Parathion	11.724	109	20248	4.715	ug/ml	95
105) 3,3'-Dichlorobenzidine	0.000		0	N.D. d		
107) Bis(2-ethylhexyl)phtha...	13.671	149	120638	3.324	ug/ml#	94
108) Di-n-octylphthalate	14.348	149	218464	3.568	ug/ml#	75

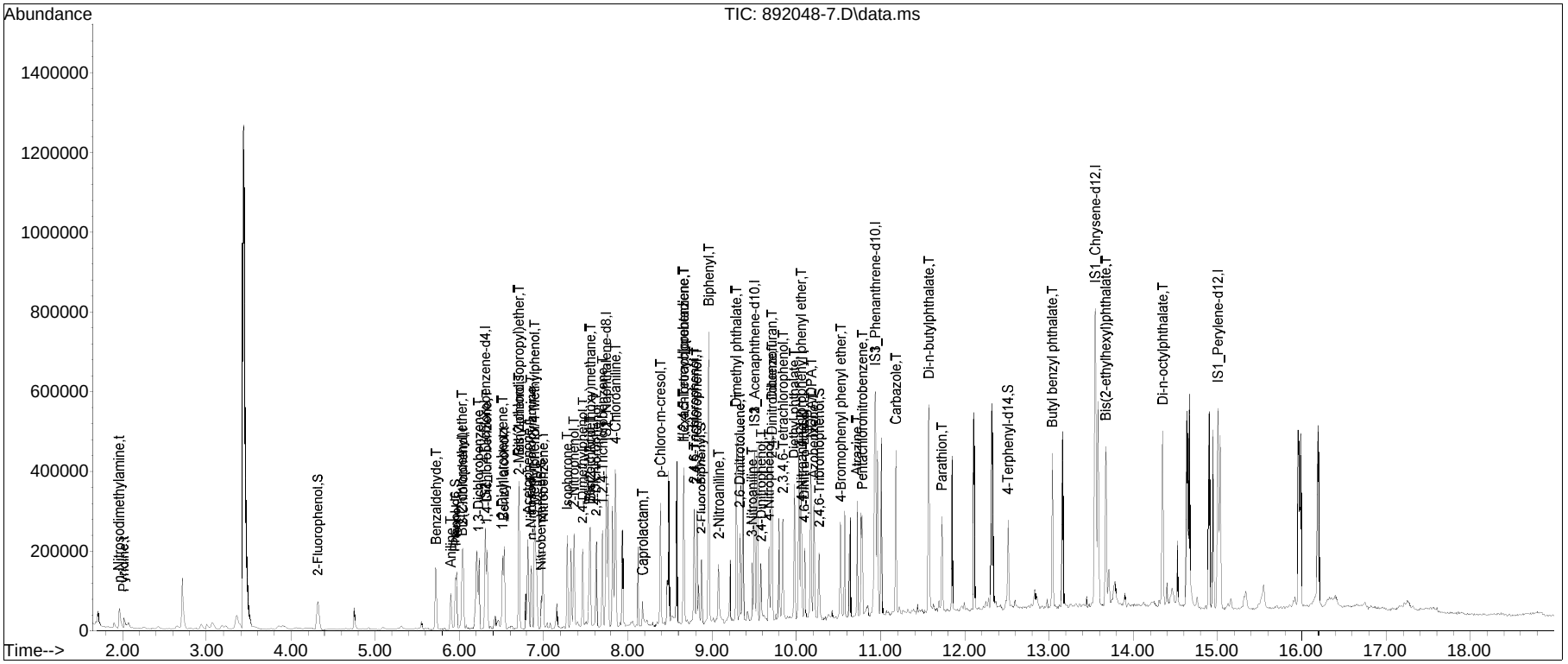
(#) = qualifier out of range (m) = manual integration (+) = signals summed

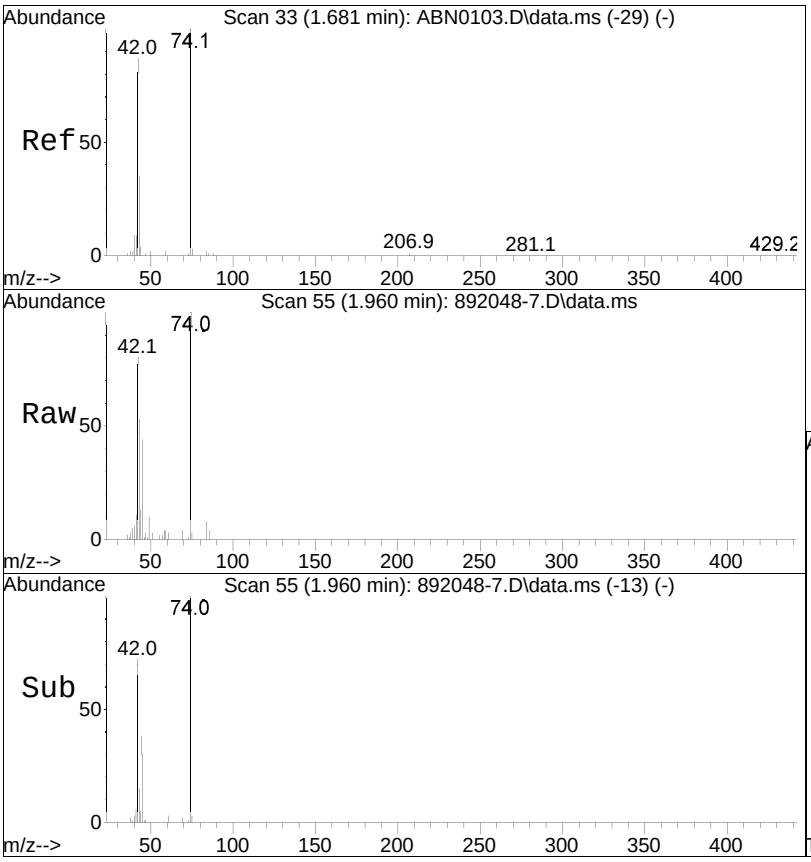
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240305lvi\
Data File : 892048-7.D
Acq On : 5 Mar 2024 7:46 pm
Operator : SV106:ek
Sample : WG1892048-7,32,,HNY
Misc : WG1892411,WG1892048,ical20337
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Mar 05 20:15:59 2024
Quant Method : I:\8270\sv106\240305lvi\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Mar 05 20:07:23 2024
Response via : Initial Calibration

Sub List : 8270TCL_combo_REV1 - TCL/CT/MA90305.D•

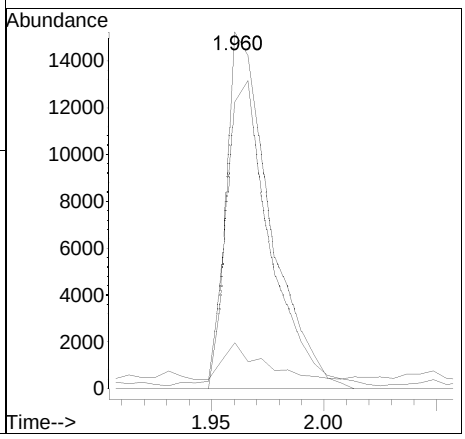


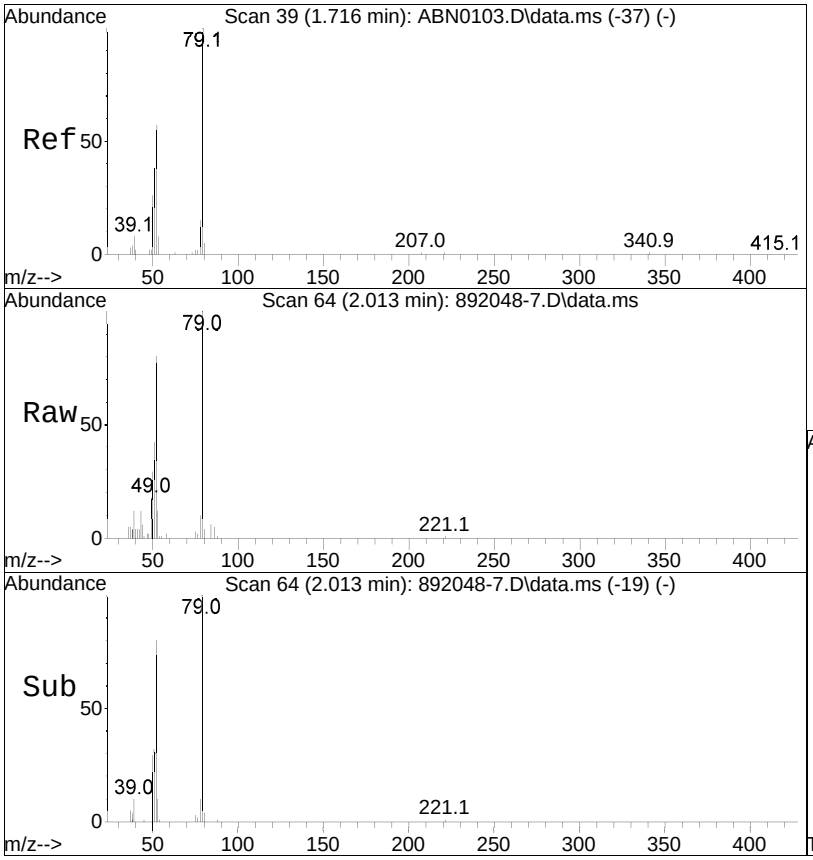


#2
n-Nitrosodimethylamine
Concen: 2.95 ug/ml
RT: 1.960 min Scan# 55
Delta R.T. -0.006 min
Lab File: 892048-7.D
Acq: 5 Mar 2024 7:46 pm

Tgt Ion: 74 Resp: 20444

Ion	Ratio	Lower	Upper
74	100		
42	86.9	100.0	150.0#
44	9.1	6.7	10.1

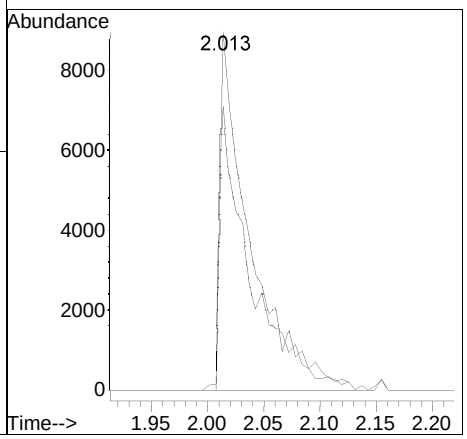


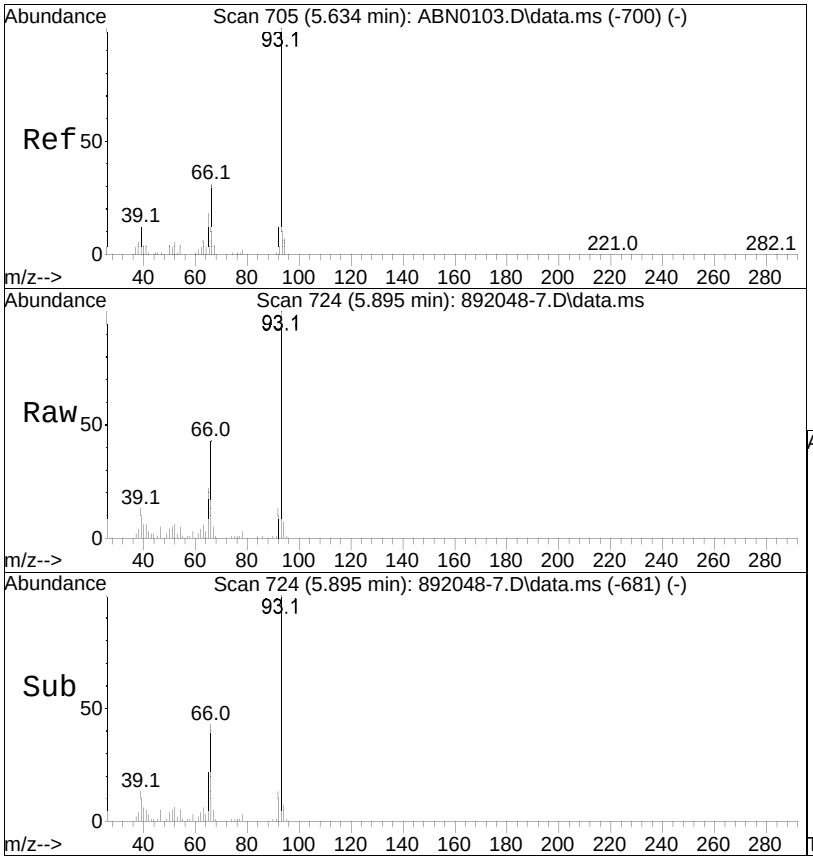


#3
Pyridine
Concen: 1.40 ug/ml
RT: 2.013 min Scan# 64
Delta R.T. 0.012 min
Lab File: 892048-7.D
Acq: 5 Mar 2024 7:46 pm

Tgt Ion: 79 Resp: 16534

Ion	Ratio	Lower	Upper
79	100		
52	80.5	93.1	139.7#

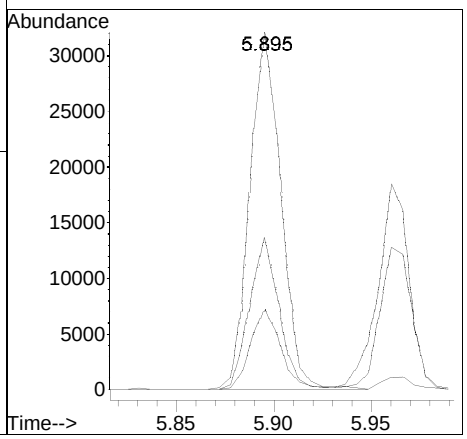


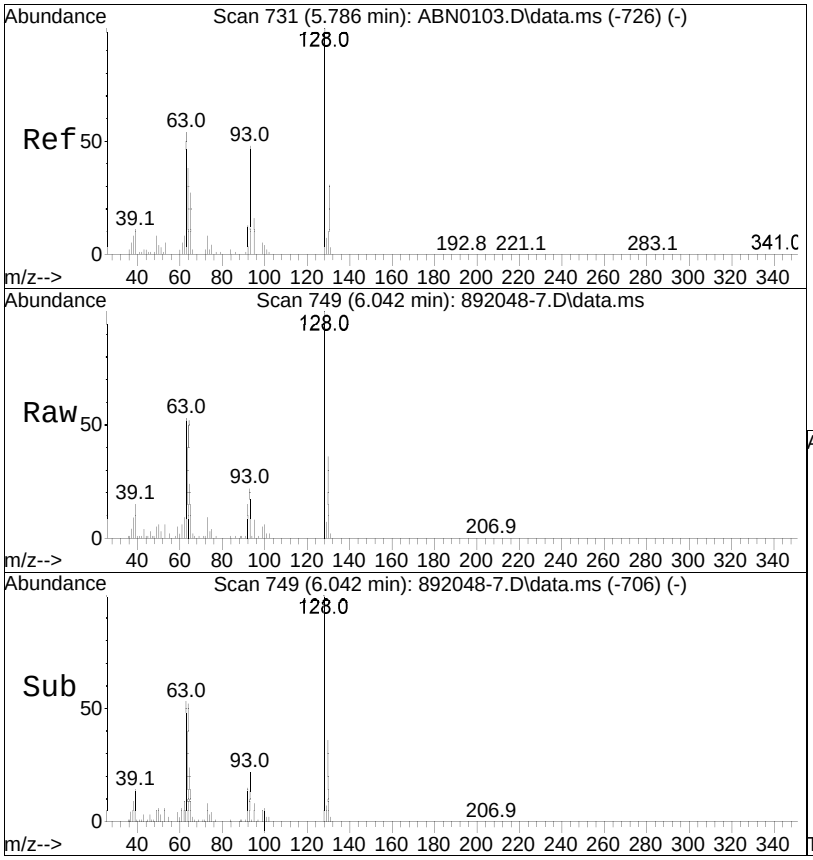


#5
Aniline
Concen: 1.84 ug/ml
RT: 5.895 min Scan# 724
Delta R.T. 0.000 min
Lab File: 892048-7.D
Acq: 5 Mar 2024 7:46 pm

Tgt Ion: 93 Resp: 35632

Ion	Ratio	Lower	Upper
93	100		
66	40.4	32.6	49.0
65	21.8	17.6	26.4

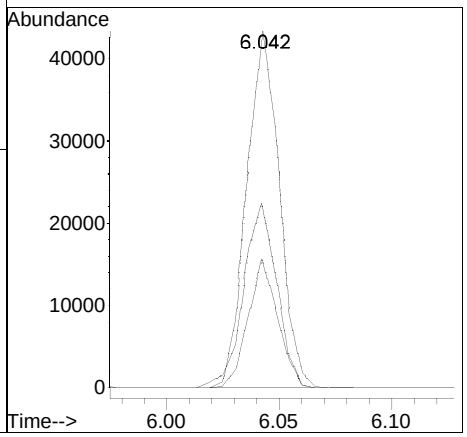


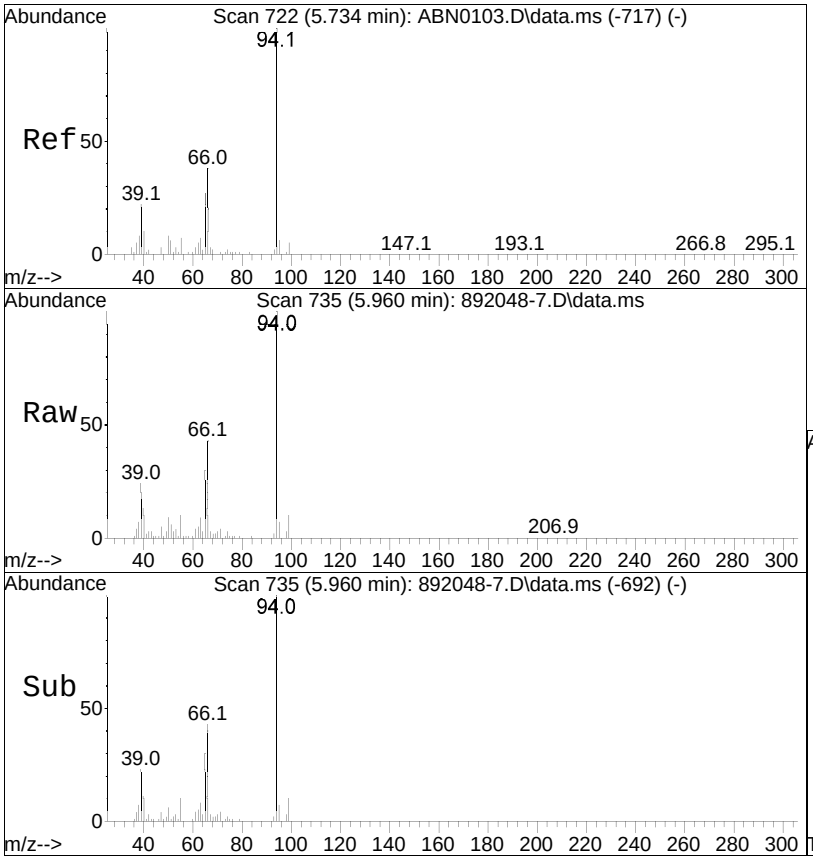


#6
2-Chlorophenol
Concen: 3.34 ug/ml
RT: 6.042 min Scan# 749
Delta R.T. 0.000 min
Lab File: 892048-7.D
Acq: 5 Mar 2024 7:46 pm

Tgt Ion:128 Resp: 43527

Ion	Ratio	Lower	Upper
128	100		
64	52.6	45.1	67.7
130	32.9	26.2	39.4

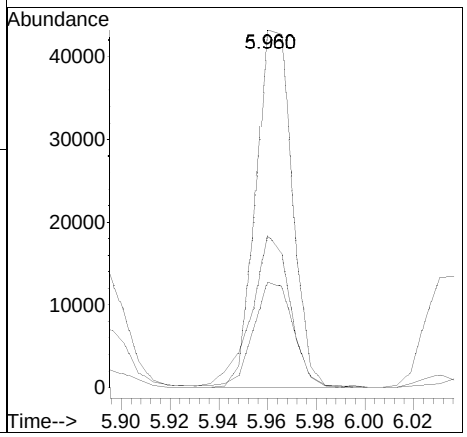


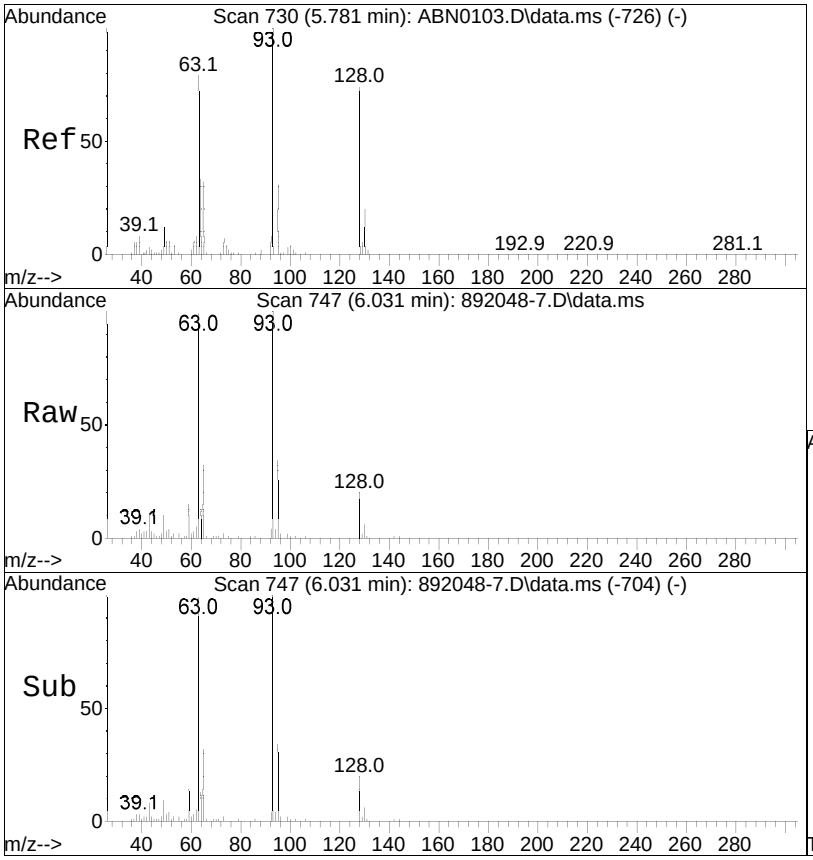


#8
Phenol
Concen: 2.87 ug/ml
RT: 5.960 min Scan# 735
Delta R.T. 0.000 min
Lab File: 892048-7.D
Acq: 5 Mar 2024 7:46 pm

Tgt Ion: 94 Resp: 44679

Ion	Ratio	Lower	Upper
94	100		
65	32.9	26.0	39.0
66	46.2	33.8	50.8

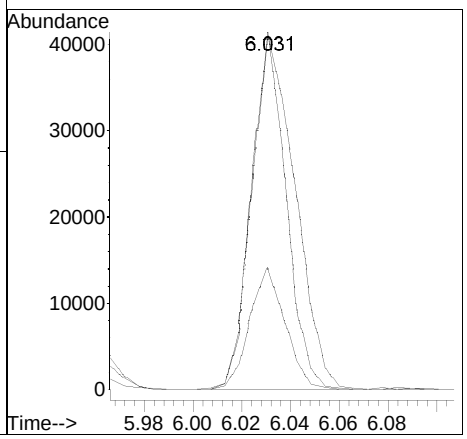


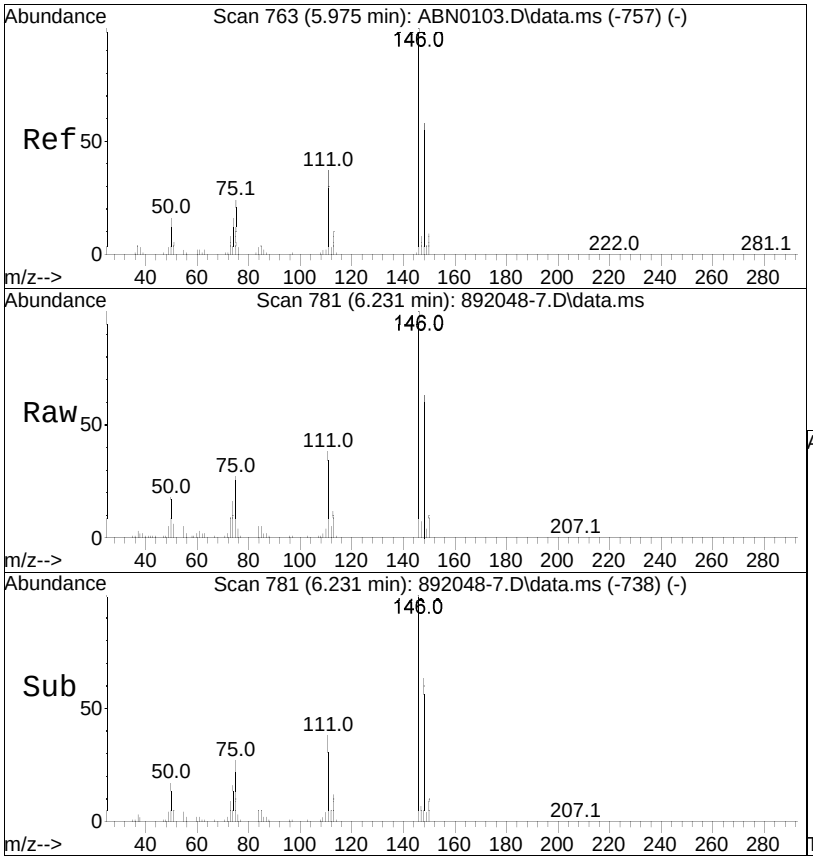


#9
Bis(2-chloroethyl)ether
Concen: 3.25 ug/ml
RT: 6.031 min Scan# 747
Delta R.T. 0.000 min
Lab File: 892048-7.D
Acq: 5 Mar 2024 7:46 pm

Tgt Ion: 93 Resp: 40667

Ion	Ratio	Lower	Upper
93	100		
63	123.6	74.6	111.8#
95	35.2	25.9	38.9

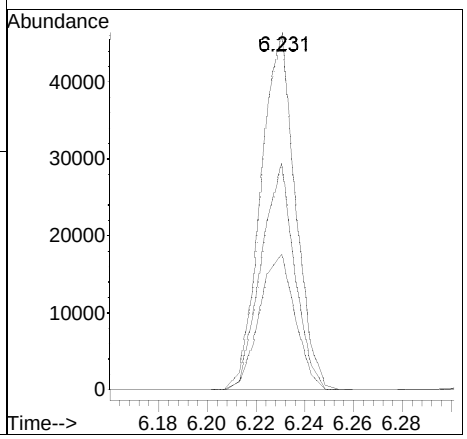


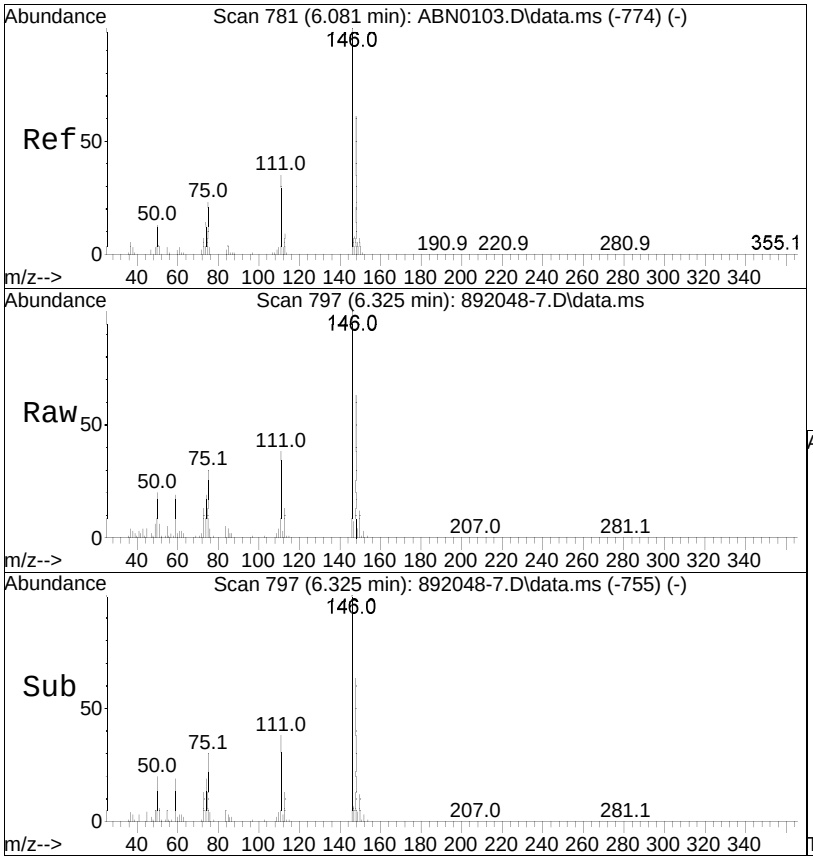


#10
1,3-Dichlorobenzene
Concen: 3.04 ug/ml
RT: 6.231 min Scan# 781
Delta R.T. 0.000 min
Lab File: 892048-7.D
Acq: 5 Mar 2024 7:46 pm

Tgt Ion:146 Resp: 45467

Ion	Ratio	Lower	Upper
146	100		
111	39.6	34.3	51.5
148	61.5	50.8	76.2

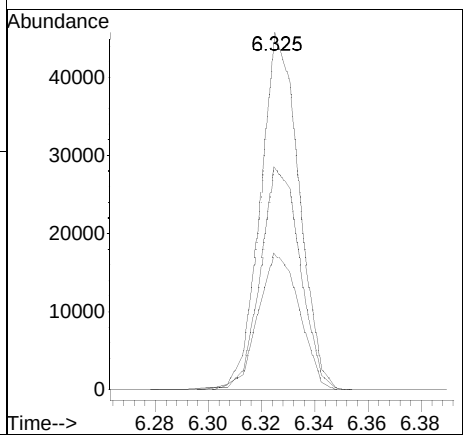


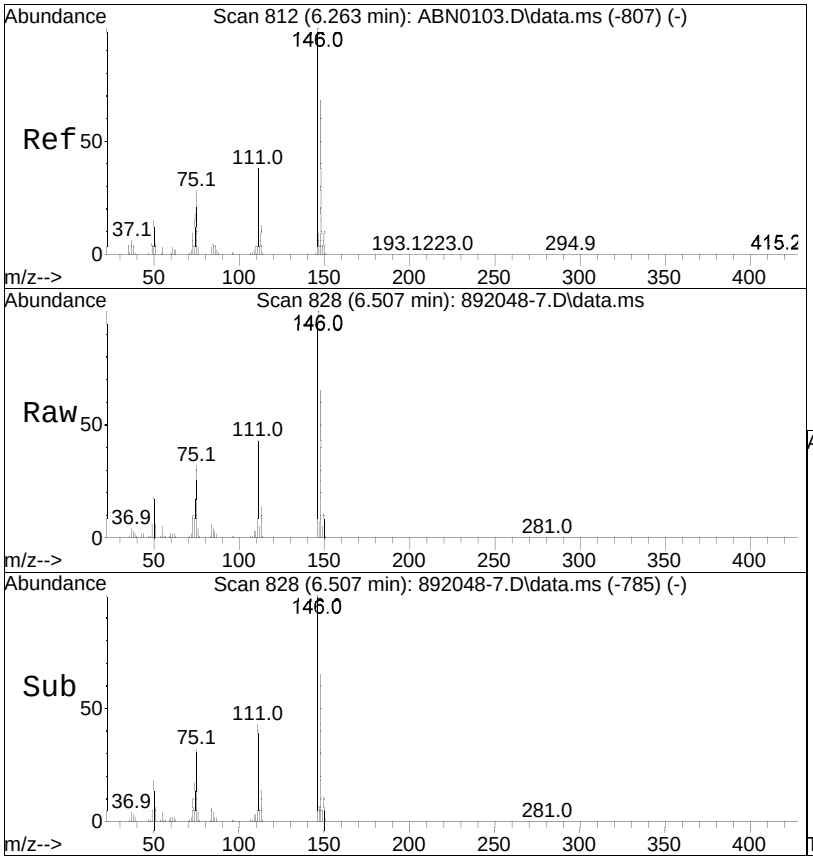


#11
1,4-Dichlorobenzene
Concen: 2.97 ug/ml
RT: 6.325 min Scan# 797
Delta R.T. -0.006 min
Lab File: 892048-7.D
Acq: 5 Mar 2024 7:46 pm

Tgt Ion:146 Resp: 45788

Ion	Ratio	Lower	Upper
146	100		
148	64.3	50.7	76.1
111	42.0	33.4	50.0

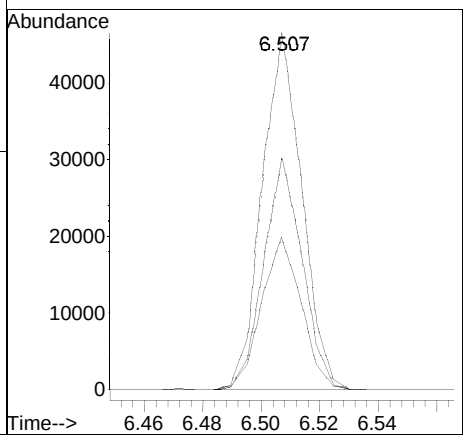


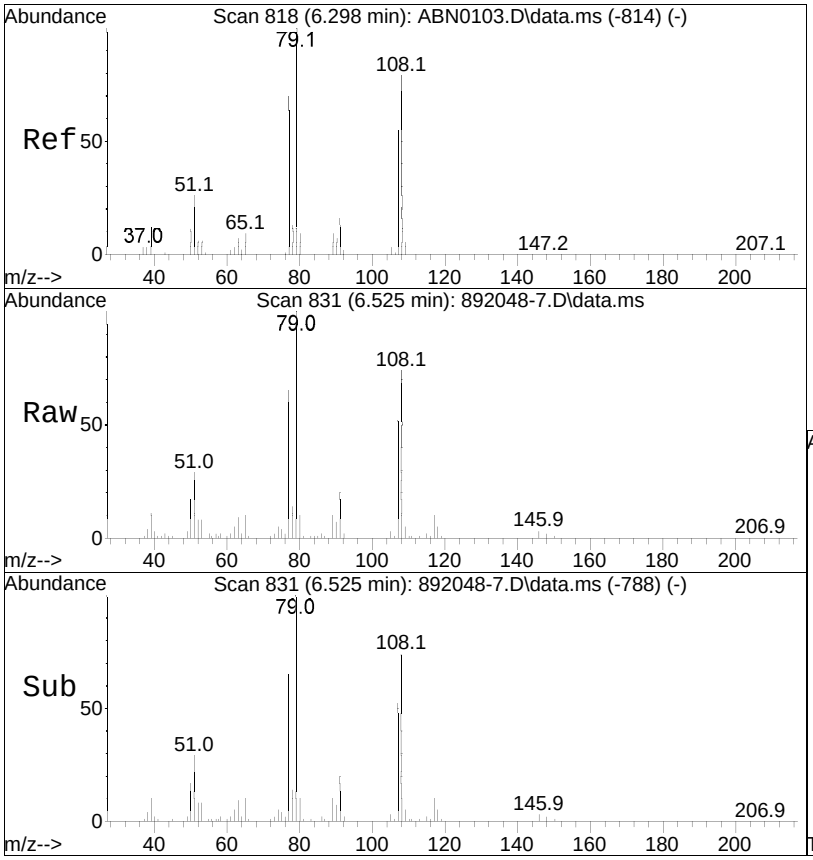


#12
1,2-Dichlorobenzene
Concen: 2.97 ug/ml
RT: 6.507 min Scan# 828
Delta R.T. 0.000 min
Lab File: 892048-7.D
Acq: 5 Mar 2024 7:46 pm

Tgt Ion:146 Resp: 43611

Ion	Ratio	Lower	Upper
146	100		
111	43.2	34.6	52.0
148	63.3	50.2	75.4

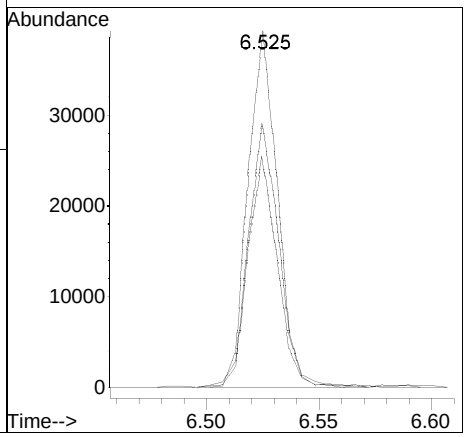


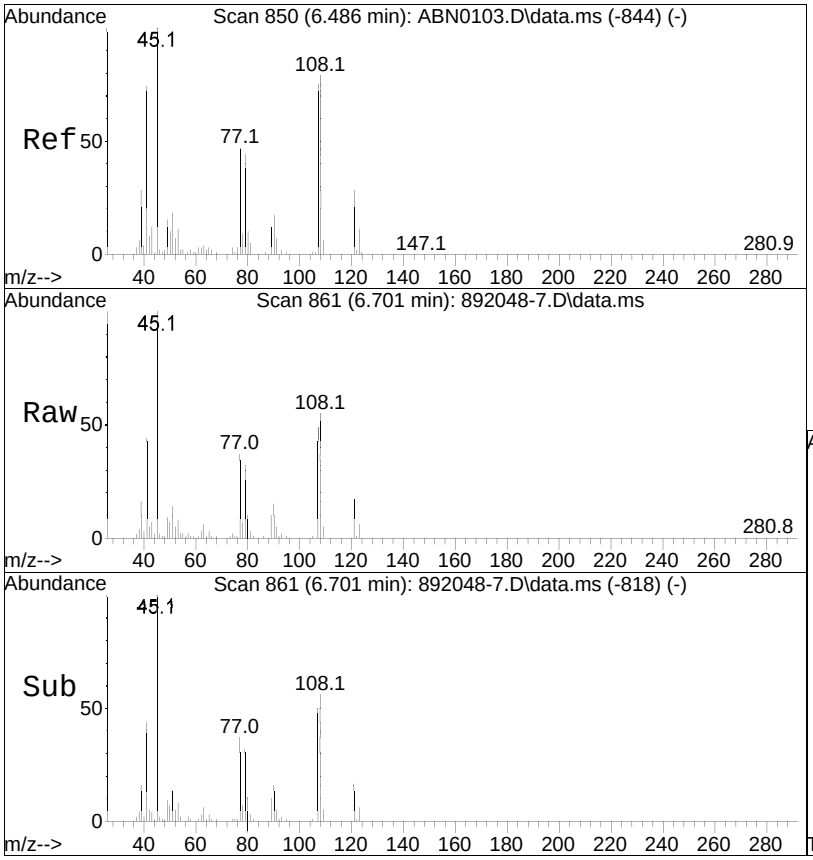


#13
Benzyl alcohol
Concen: 3.26 ug/ml
RT: 6.525 min Scan# 831
Delta R.T. 0.000 min
Lab File: 892048-7.D
Acq: 5 Mar 2024 7:46 pm

Tgt Ion: 79 Resp: 35816

Ion	Ratio	Lower	Upper
79	100		
77	64.4	54.9	82.3
108	76.3	63.1	94.7

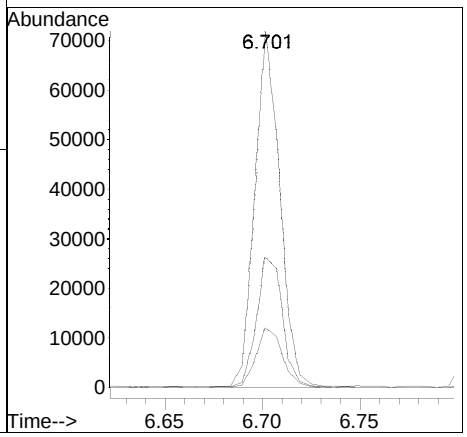


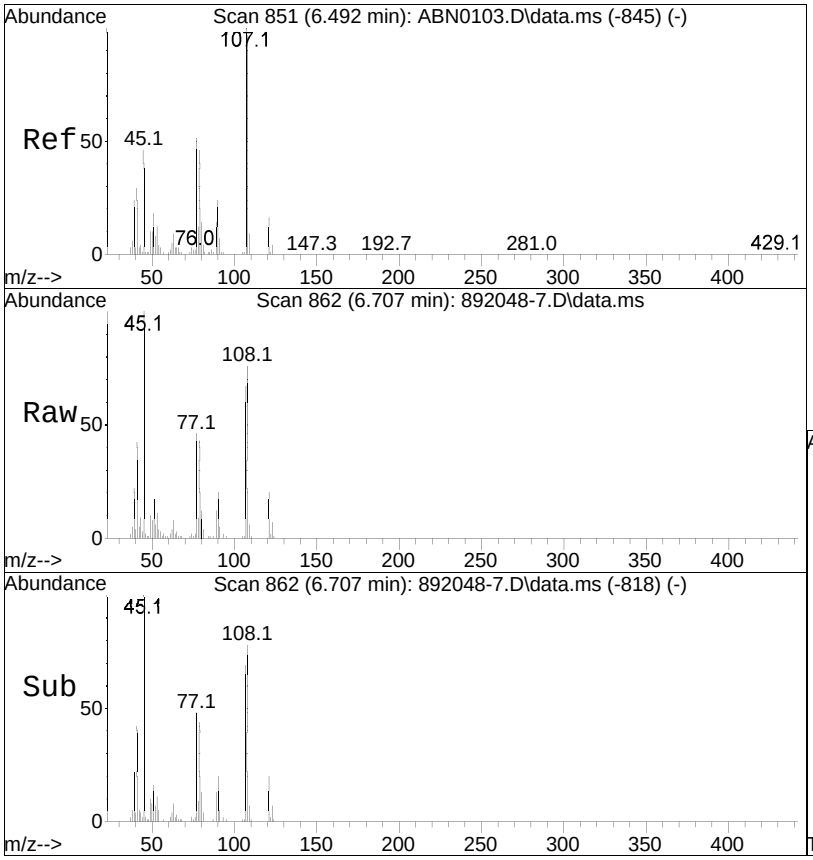


#14
Bis(2-chloroisopropyl)ether
Concen: 3.46 ug/ml
RT: 6.701 min Scan# 861
Delta R.T. 0.000 min
Lab File: 892048-7.D
Acq: 5 Mar 2024 7:46 pm

Tgt Ion: 45 Resp: 63836

Ion	Ratio	Lower	Upper
45	100		
121	17.7	9.8	14.6#
77	38.2	6.1	9.1#

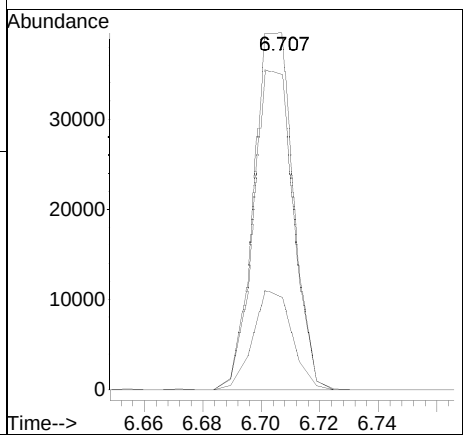


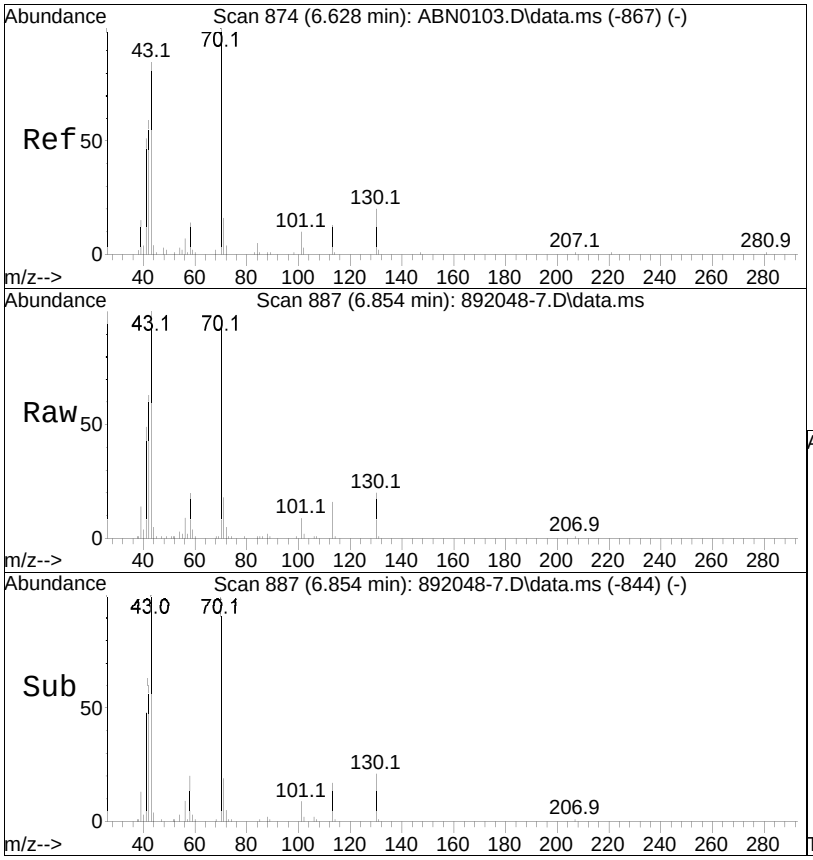


#15
2-Methylphenol
Concen: 3.21 ug/ml
RT: 6.707 min Scan# 862
Delta R.T. 0.006 min
Lab File: 892048-7.D
Acq: 5 Mar 2024 7:46 pm

Tgt Ion:108 Resp: 37393

Ion	Ratio	Lower	Upper
108	100		
107	89.8	70.7	106.1
90	27.3	18.7	28.1

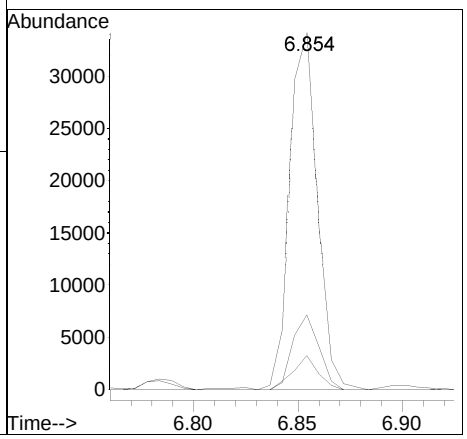


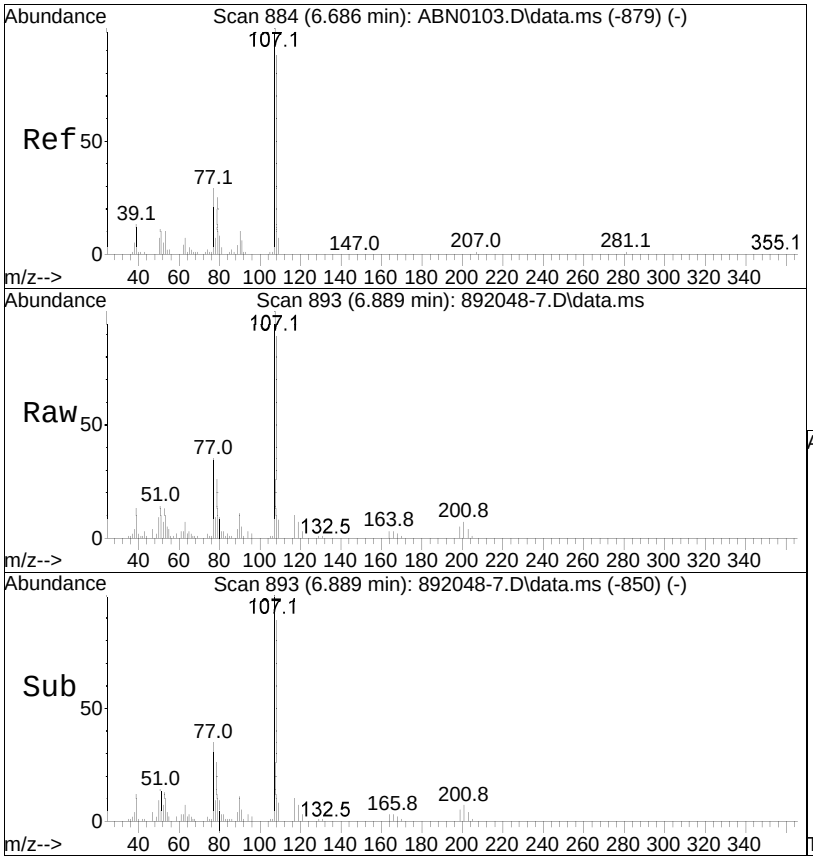


#17
n-Nitrosodi-n-propylamine
Concen: 3.36 ug/ml
RT: 6.854 min Scan# 887
Delta R.T. 0.000 min
Lab File: 892048-7.D
Acq: 5 Mar 2024 7:46 pm

Tgt Ion: 70 Resp: 31757

Ion	Ratio	Lower	Upper
70	100		
130	19.8	18.2	27.4
101	8.7	7.8	11.8

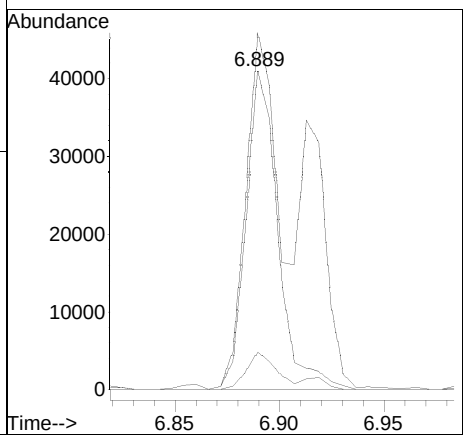


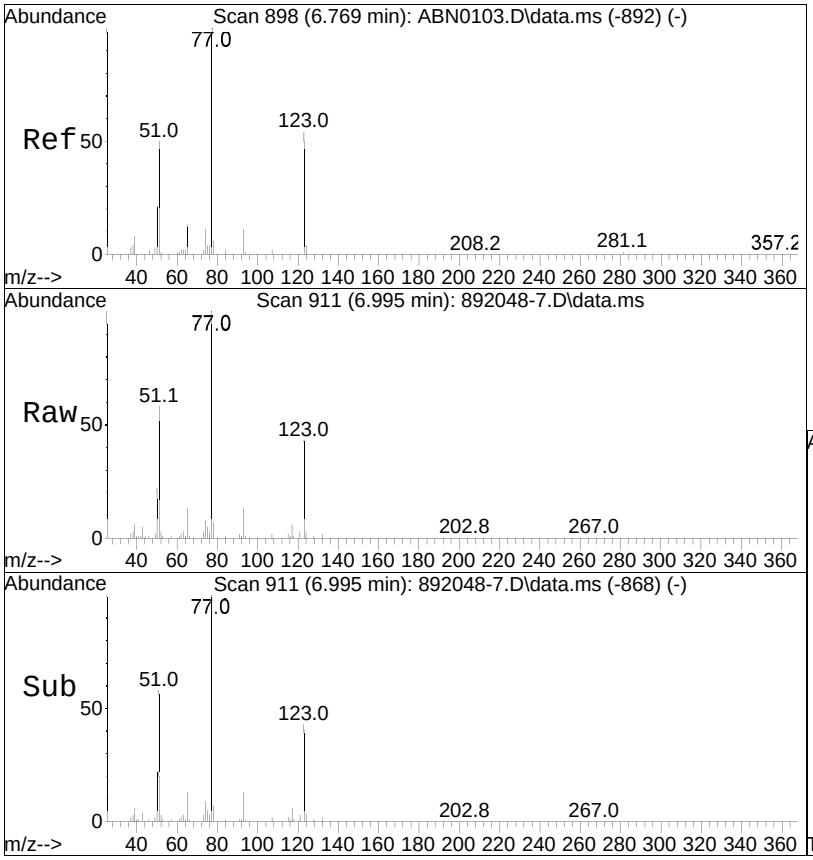


#18
3-Methylphenol/4-Methylphenol
Concen: 3.56 ug/ml
RT: 6.889 min Scan# 893
Delta R.T. 0.000 min
Lab File: 892048-7.D
Acq: 5 Mar 2024 7:46 pm

Tgt Ion:108 Resp: 43566

Ion	Ratio	Lower	Upper
108	100		
107	118.2	88.6	132.8
90	13.5	8.8	13.2#

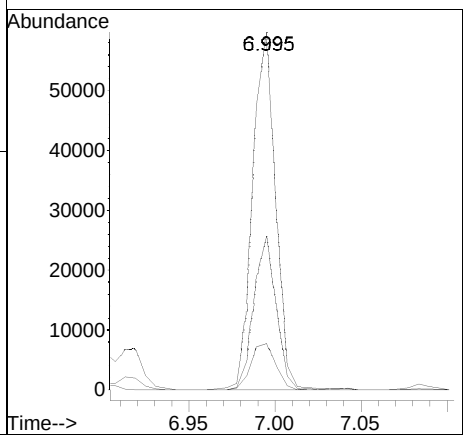


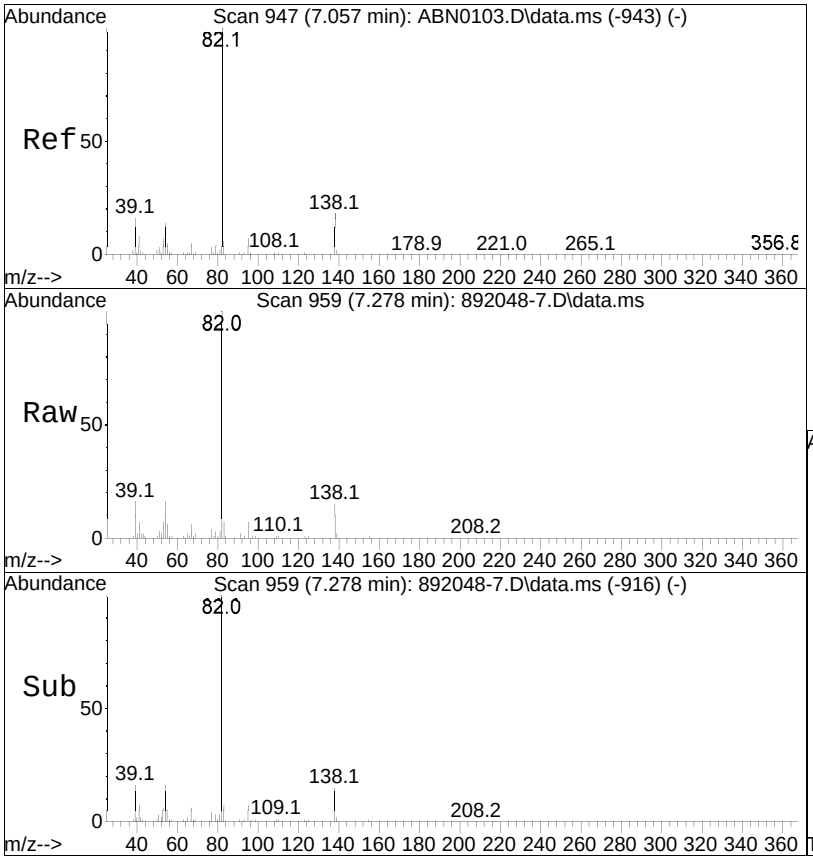


#20
Nitrobenzene
Concen: 4.14 ug/ml
RT: 6.995 min Scan# 911
Delta R.T. 0.000 min
Lab File: 892048-7.D
Acq: 5 Mar 2024 7:46 pm

Tgt Ion: 77 Resp: 54885

Ion	Ratio	Lower	Upper
77	100		
123	41.7	36.3	54.5
65	14.4	11.6	17.4

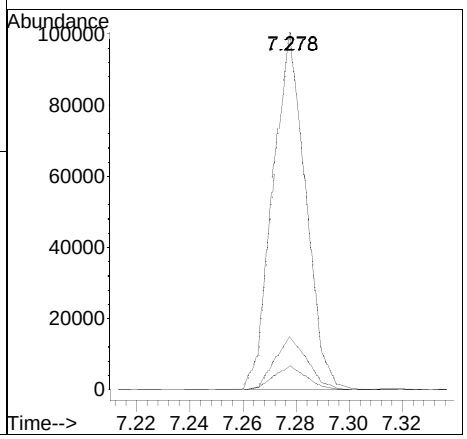


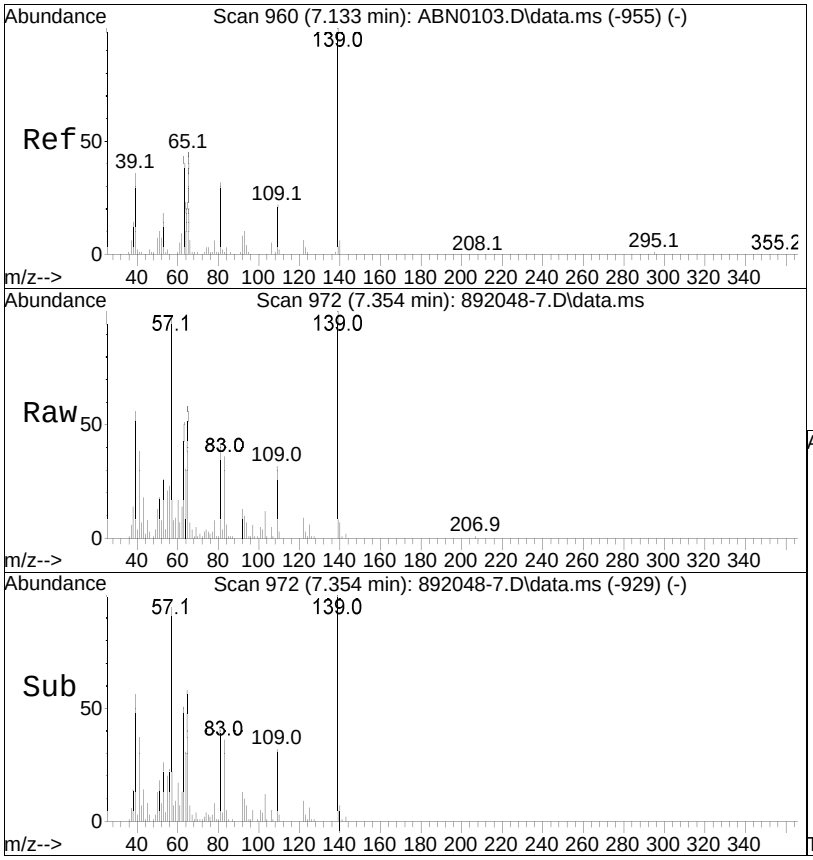


#21
Isophorone
Concen: 3.36 ug/ml
RT: 7.278 min Scan# 959
Delta R.T. 0.000 min
Lab File: 892048-7.D
Acq: 5 Mar 2024 7:46 pm

Tgt Ion: 82 Resp: 85315

Ion	Ratio	Lower	Upper
82	100		
138	14.8	14.7	22.1
95	6.7	5.2	7.8

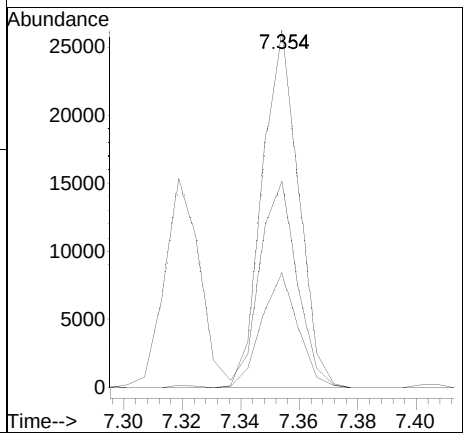


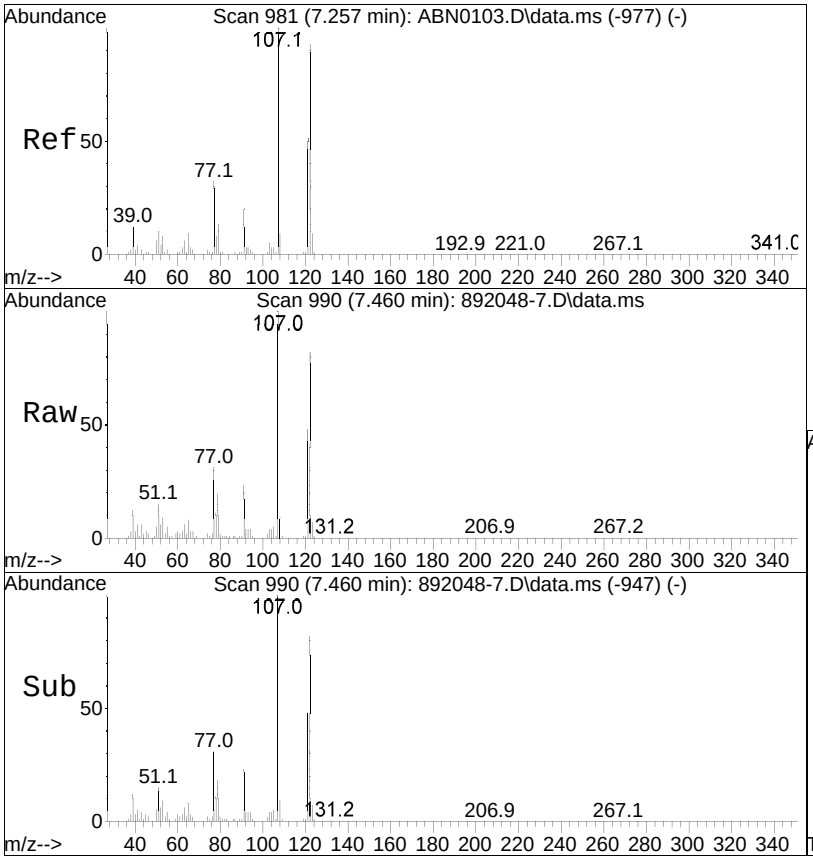


#22
2-Nitrophenol
Concen: 4.27 ug/ml
RT: 7.354 min Scan# 972
Delta R.T. 0.000 min
Lab File: 892048-7.D
Acq: 5 Mar 2024 7:46 pm

Tgt Ion:139 Resp: 22639

Ion	Ratio	Lower	Upper
139	100		
109	32.3	19.4	29.0#
65	59.2	46.1	69.1

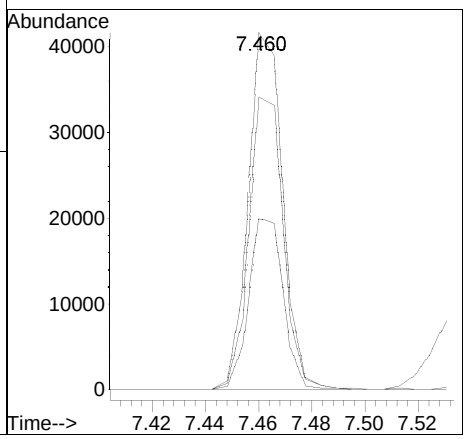


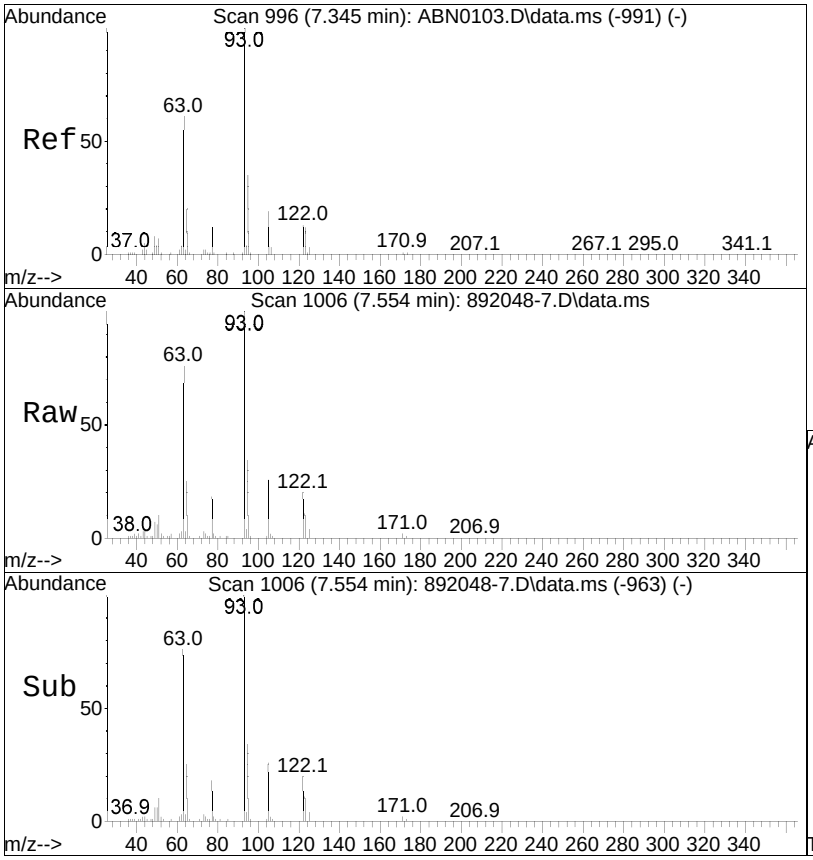


#23
2,4-Dimethylphenol
Concen: 2.84 ug/ml
RT: 7.460 min Scan# 990
Delta R.T. 0.000 min
Lab File: 892048-7.D
Acq: 5 Mar 2024 7:46 pm

Tgt Ion:107 Resp: 37256

Ion	Ratio	Lower	Upper
107	100		
121	48.0	40.0	60.0
122	81.7	70.2	105.4

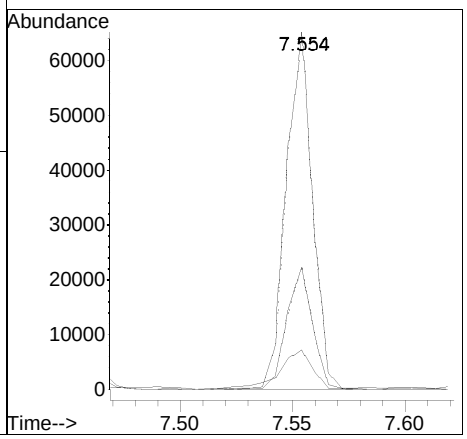


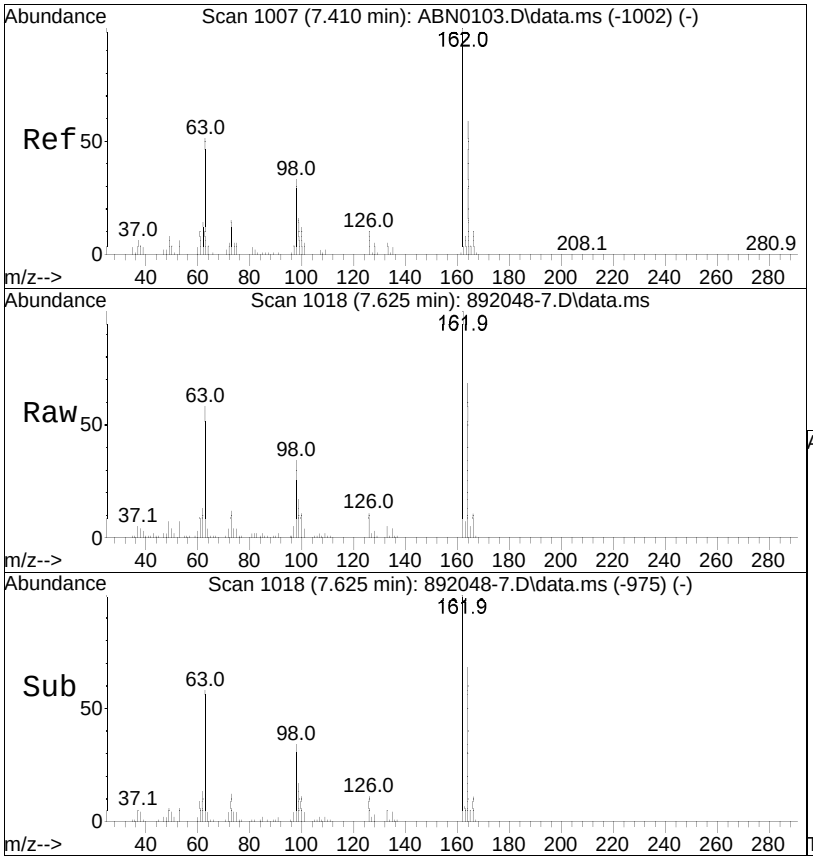


#24
Bis(2-chloroethoxy)methane
Concen: 3.29 ug/ml
RT: 7.554 min Scan# 1006
Delta R.T. 0.000 min
Lab File: 892048-7.D
Acq: 5 Mar 2024 7:46 pm

Tgt Ion: 93 Resp: 52391

Ion	Ratio	Lower	Upper
93	100		
95	34.1	25.8	38.8
123	14.2	10.1	15.1

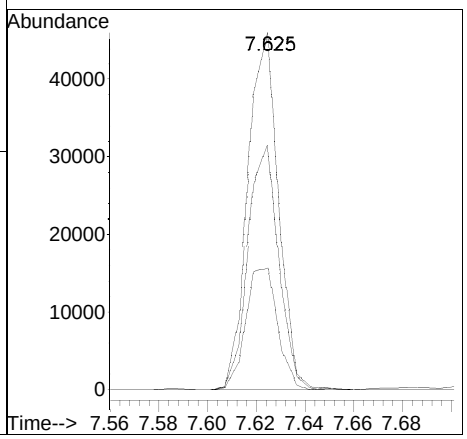


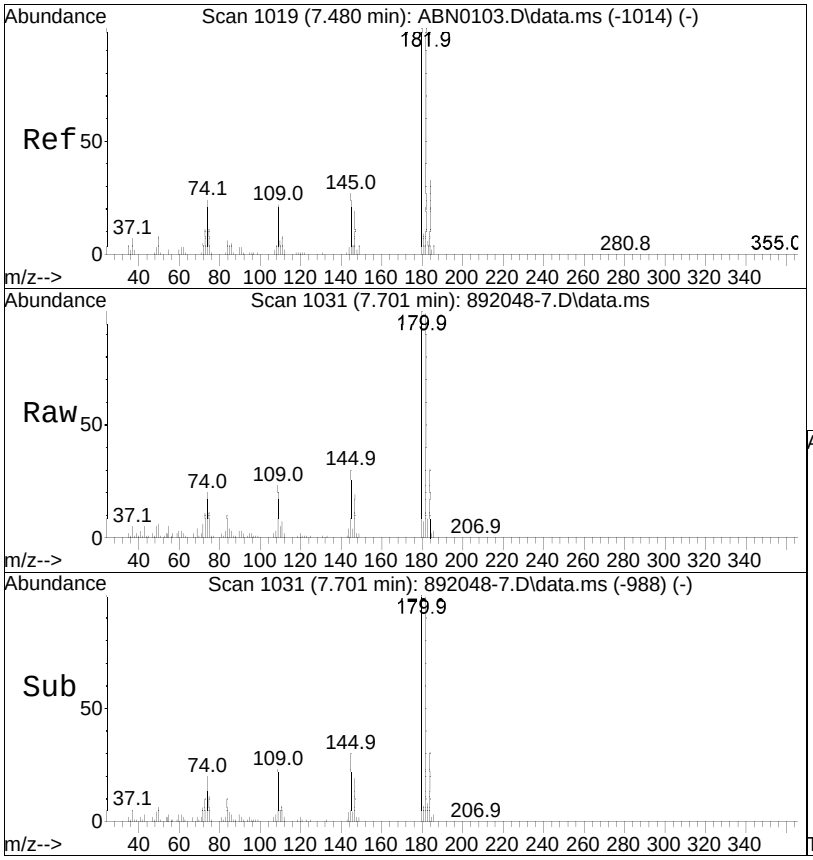


#25
2,4-Dichlorophenol
Concen: 3.65 ug/ml
RT: 7.625 min Scan# 1018
Delta R.T. 0.000 min
Lab File: 892048-7.D
Acq: 5 Mar 2024 7:46 pm

Tgt Ion:162 Resp: 40166

Ion	Ratio	Lower	Upper
162	100		
164	68.7	51.0	76.4
98	36.2	32.2	48.2

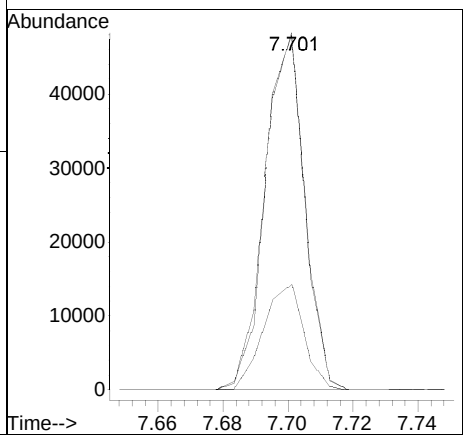


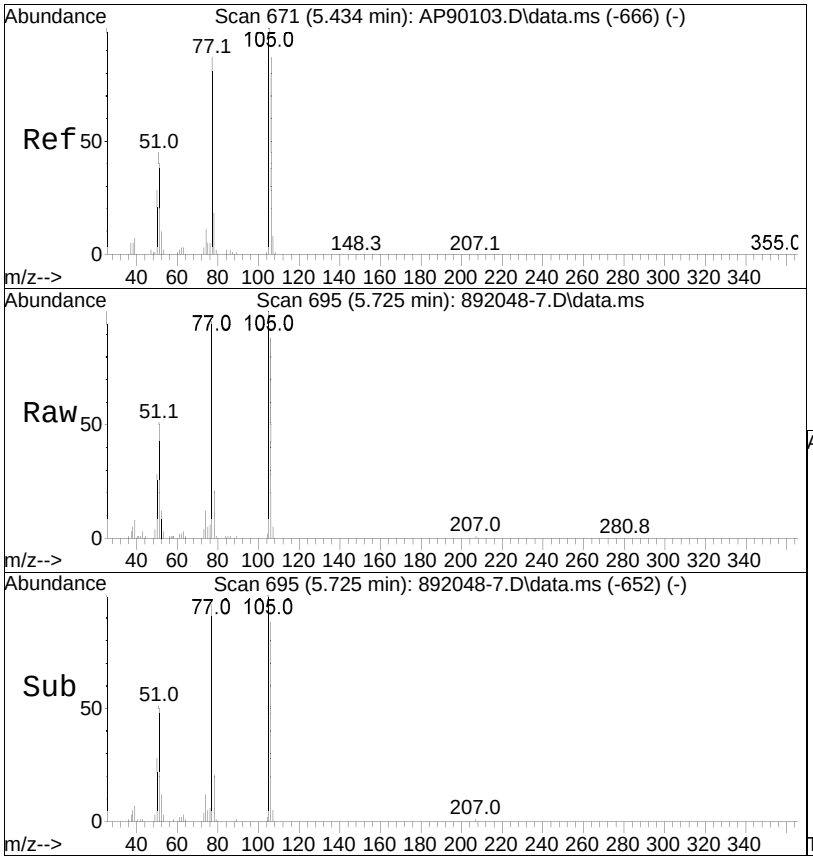


#26
1,2,4-Trichlorobenzene
Concen: 3.24 ug/ml
RT: 7.701 min Scan# 1031
Delta R.T. 0.000 min
Lab File: 892048-7.D
Acq: 5 Mar 2024 7:46 pm

Tgt Ion:180 Resp: 40971

Ion	Ratio	Lower	Upper
180	100		
182	98.1	76.0	114.0
145	30.3	25.7	38.5

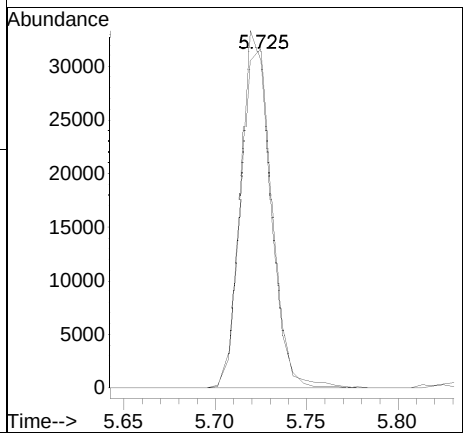


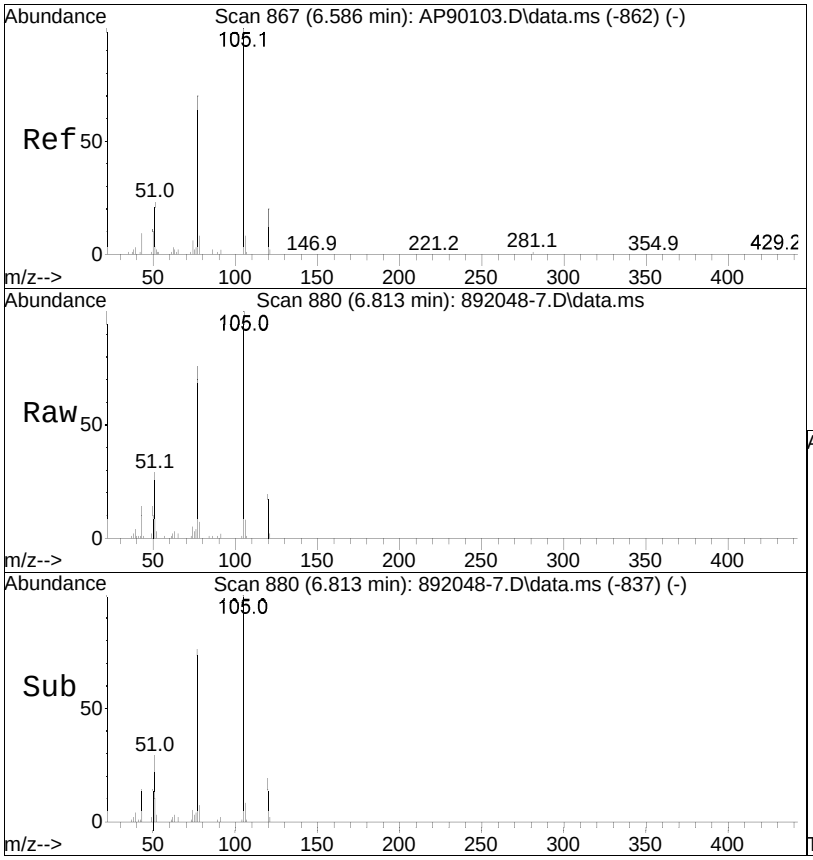


#28
Benzaldehyde
Concen: 3.96 ug/ml
RT: 5.725 min Scan# 695
Delta R.T. 0.000 min
Lab File: 892048-7.D
Acq: 5 Mar 2024 7:46 pm

Tgt Ion:105 Resp: 37622

Ion	Ratio	Lower	Upper
105	100		
77	99.8	82.2	123.4

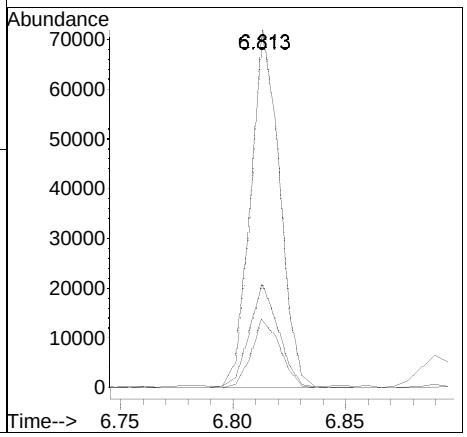


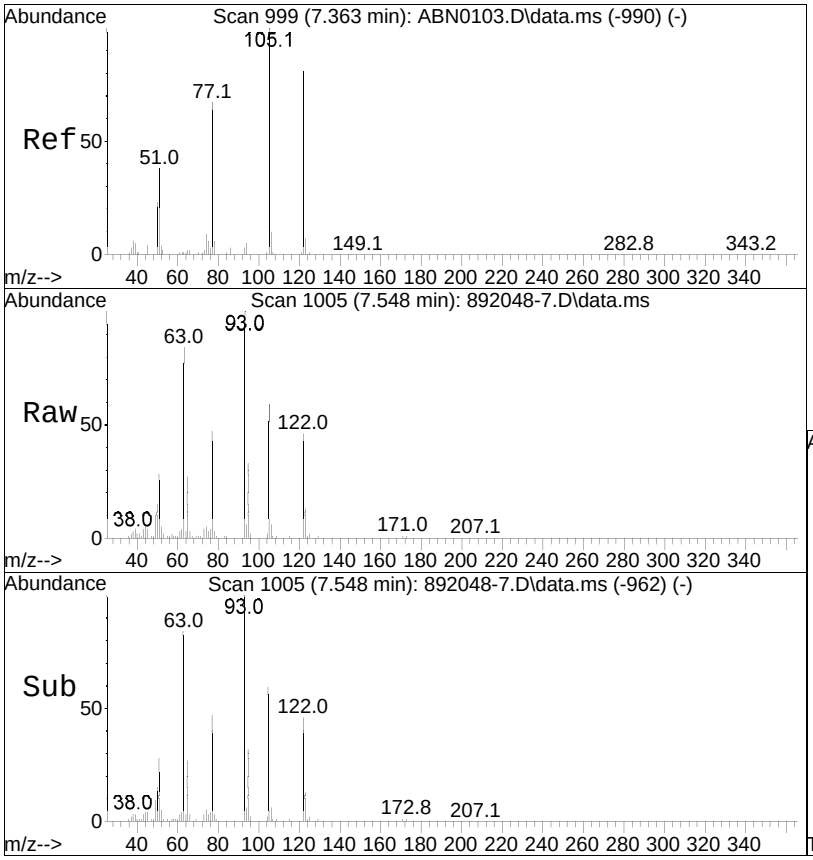


#29
Acetophenone
Concen: 3.13 ug/ml
RT: 6.813 min Scan# 880
Delta R.T. 0.000 min
Lab File: 892048-7.D
Acq: 5 Mar 2024 7:46 pm

Tgt Ion:105 Resp: 64017

Ion	Ratio	Lower	Upper
105	100		
120	18.9	20.5	30.7#
51	29.1	34.9	52.3#

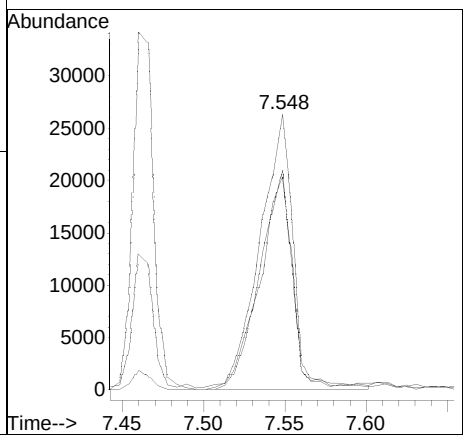


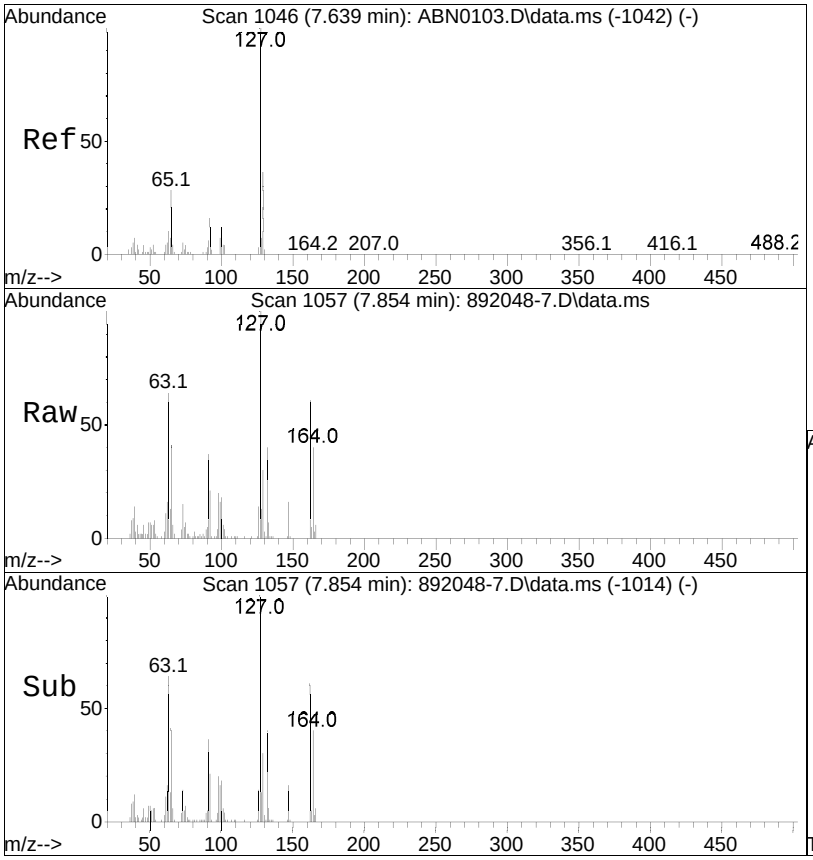


#36
Benzoic Acid
Concen: 5.19 ug/ml
RT: 7.548 min Scan# 1005
Delta R.T. 0.000 min
Lab File: 892048-7.D
Acq: 5 Mar 2024 7:46 pm

Tgt Ion:105 Resp: 37553

Ion	Ratio	Lower	Upper
105	100		
122	76.6	59.9	89.9
77	78.8	60.1	90.1

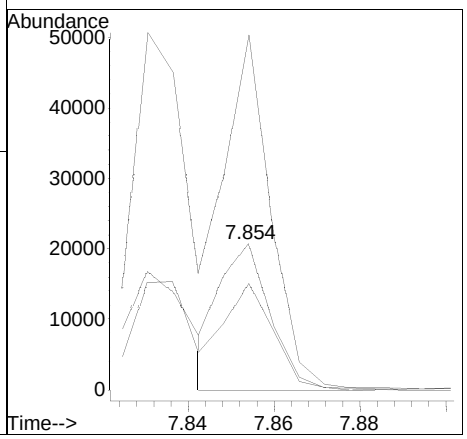


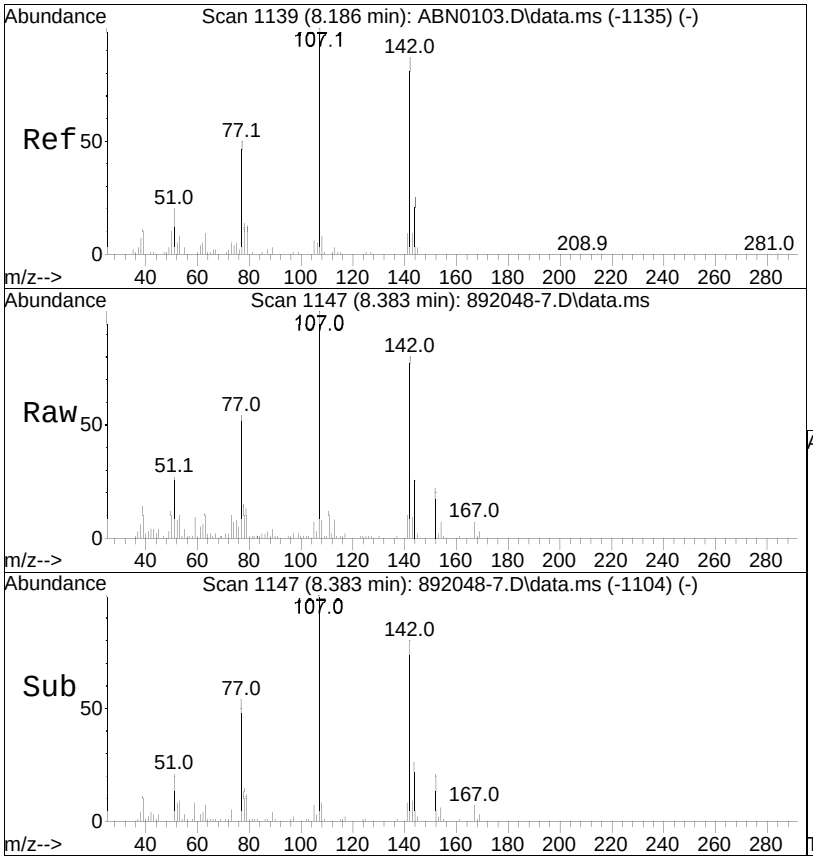


#37
4-Chloroaniline
Concen: 3.39 ug/ml M3
RT: 7.854 min Scan# 1057
Delta R.T. 0.000 min
Lab File: 892048-7.D
Acq: 5 Mar 2024 7:46 pm

Tgt Ion: 65 Resp: 17083

Ion	Ratio	Lower	Upper
65	100		
127	264.1	237.6	356.4
129	87.5	76.3	114.5

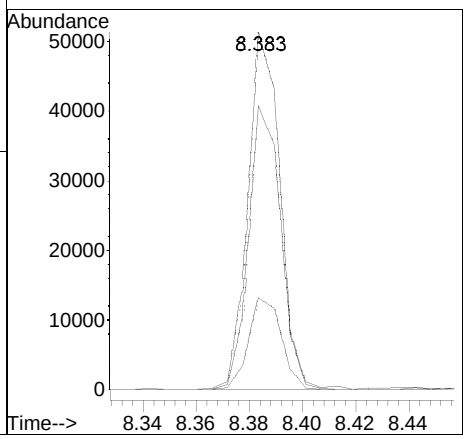


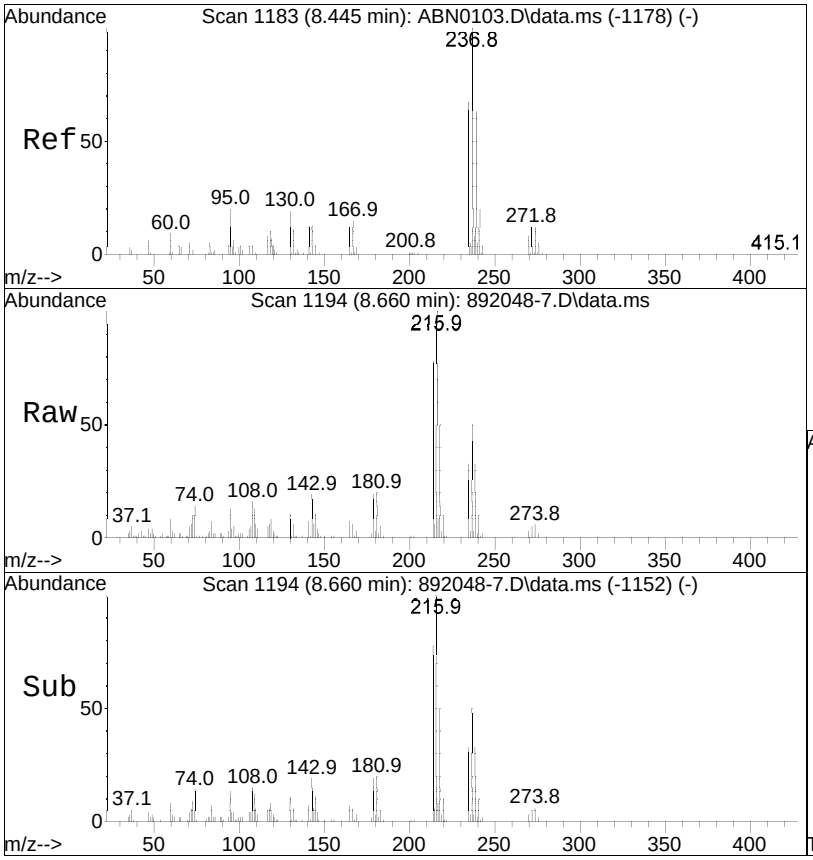


#39
p-Chloro-m-cresol
Concen: 3.83 ug/ml
RT: 8.383 min Scan# 1147
Delta R.T. 0.000 min
Lab File: 892048-7.D
Acq: 5 Mar 2024 7:46 pm

Tgt Ion:107 Resp: 42586

Ion	Ratio	Lower	Upper
107	100		
144	26.5	20.9	31.3
142	79.4	66.1	99.1

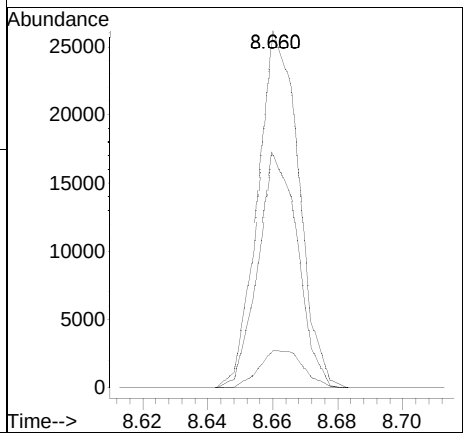


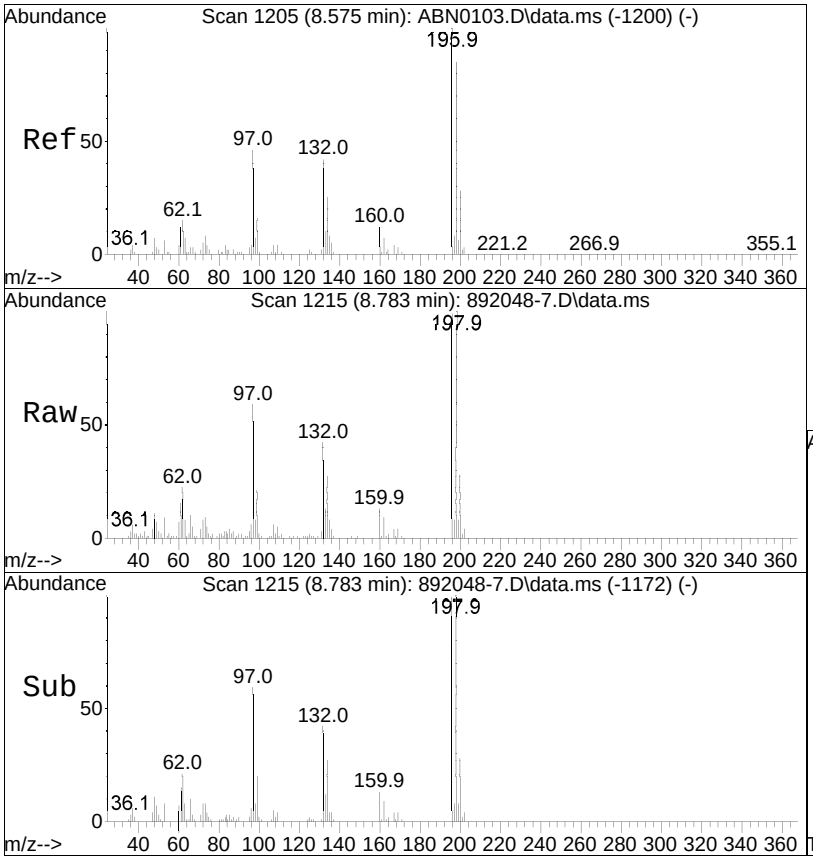


#42
Hexachlorocyclopentadiene
Concen: 2.73 ug/ml
RT: 8.660 min Scan# 1194
Delta R.T. -0.006 min
Lab File: 892048-7.D
Acq: 5 Mar 2024 7:46 pm

Tgt Ion:237 Resp: 22830

Ion	Ratio	Lower	Upper
237	100		
235	64.0	49.7	74.5
272	11.5	9.8	14.6

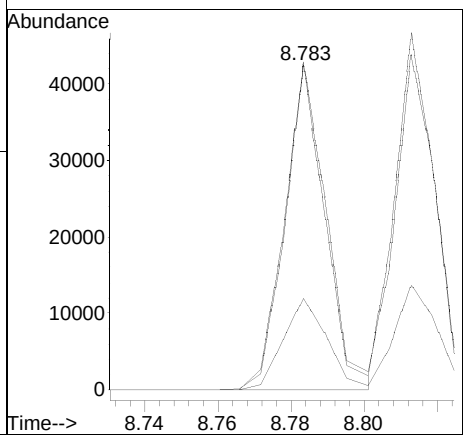


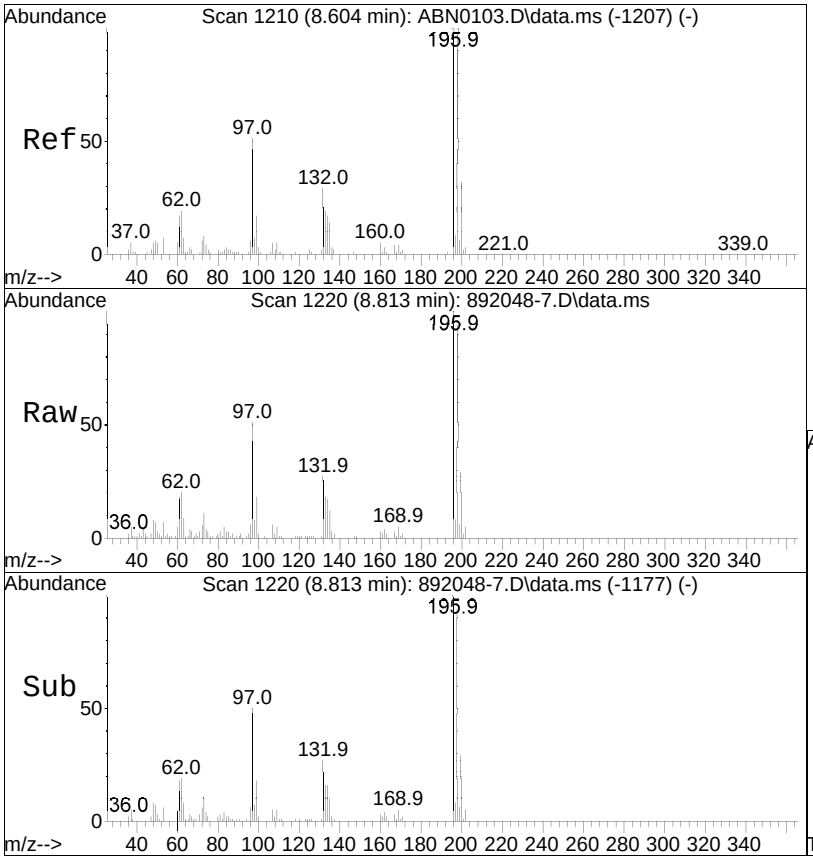


#43
2,4,6-Trichlorophenol
Concen: 4.04 ug/ml
RT: 8.783 min Scan# 1215
Delta R.T. 0.000 min
Lab File: 892048-7.D
Acq: 5 Mar 2024 7:46 pm

Tgt Ion:196 Resp: 32087

Ion	Ratio	Lower	Upper
196	100		
198	105.7	77.5	116.3
200	31.2	23.8	35.6

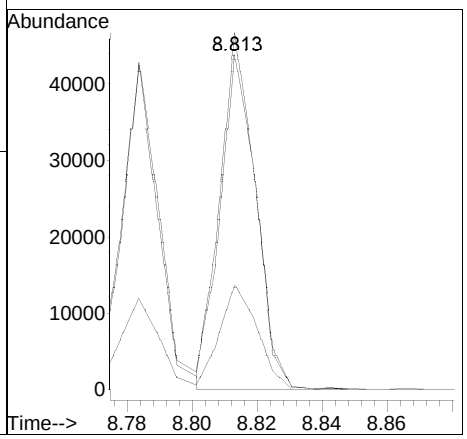


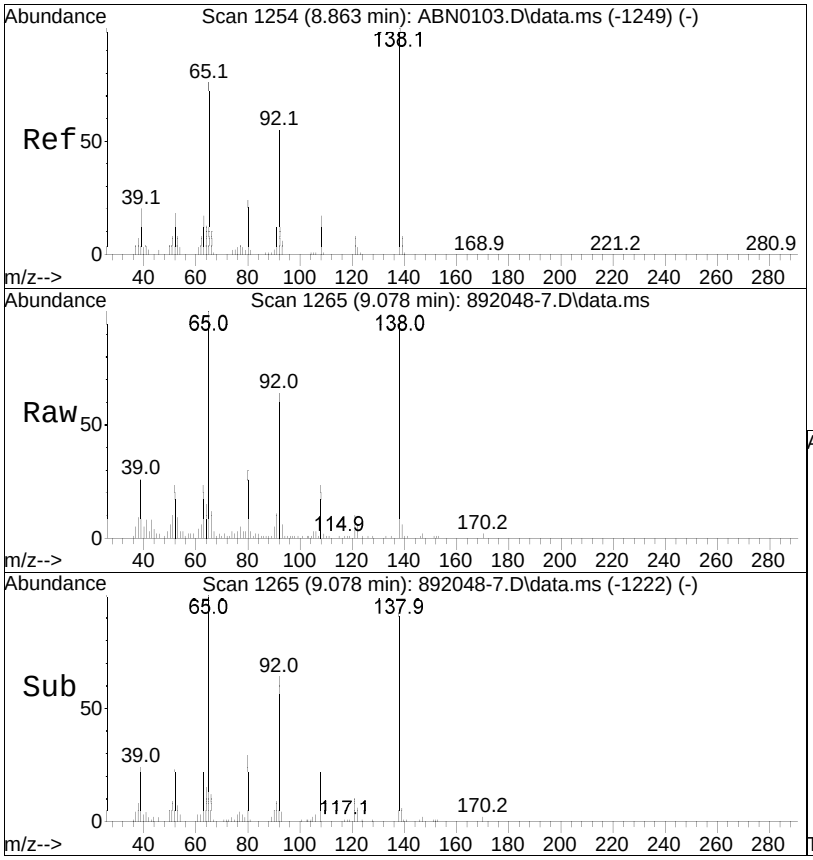


#44
2,4,5-Trichlorophenol
Concen: 4.13 ug/ml
RT: 8.813 min Scan# 1220
Delta R.T. 0.000 min
Lab File: 892048-7.D
Acq: 5 Mar 2024 7:46 pm

Tgt Ion:196 Resp: 35319

Ion	Ratio	Lower	Upper
196	100		
200	31.3	25.4	38.0
198	95.9	78.0	117.0

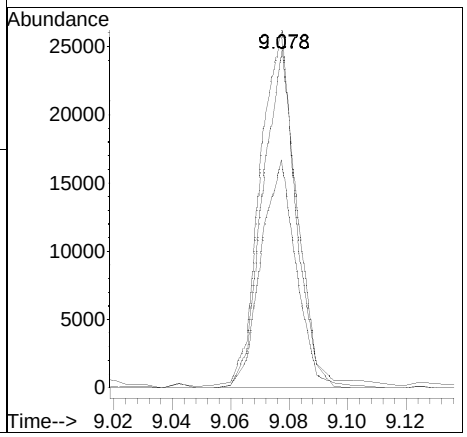


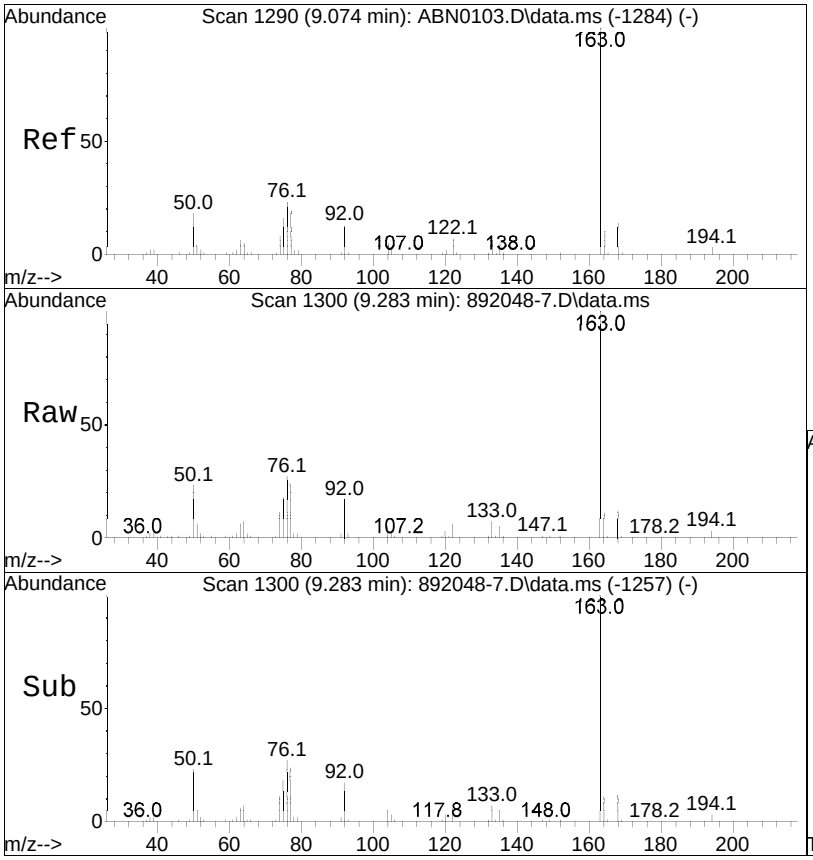


#47
2-Nitroaniline
Concen: 3.04 ug/ml
RT: 9.078 min Scan# 1265
Delta R.T. 0.000 min
Lab File: 892048-7.D
Acq: 5 Mar 2024 7:46 pm

Tgt Ion:138 Resp: 20075

Ion	Ratio	Lower	Upper
138	100		
92	69.3	53.5	80.3
65	112.5	86.3	129.5

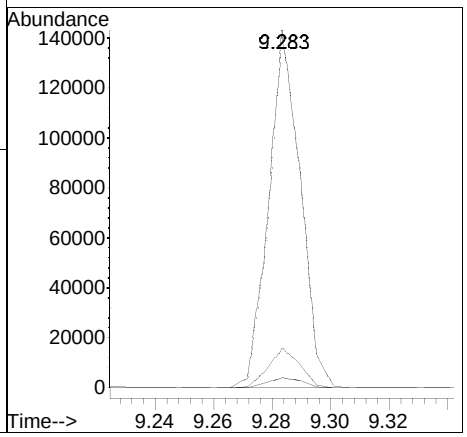


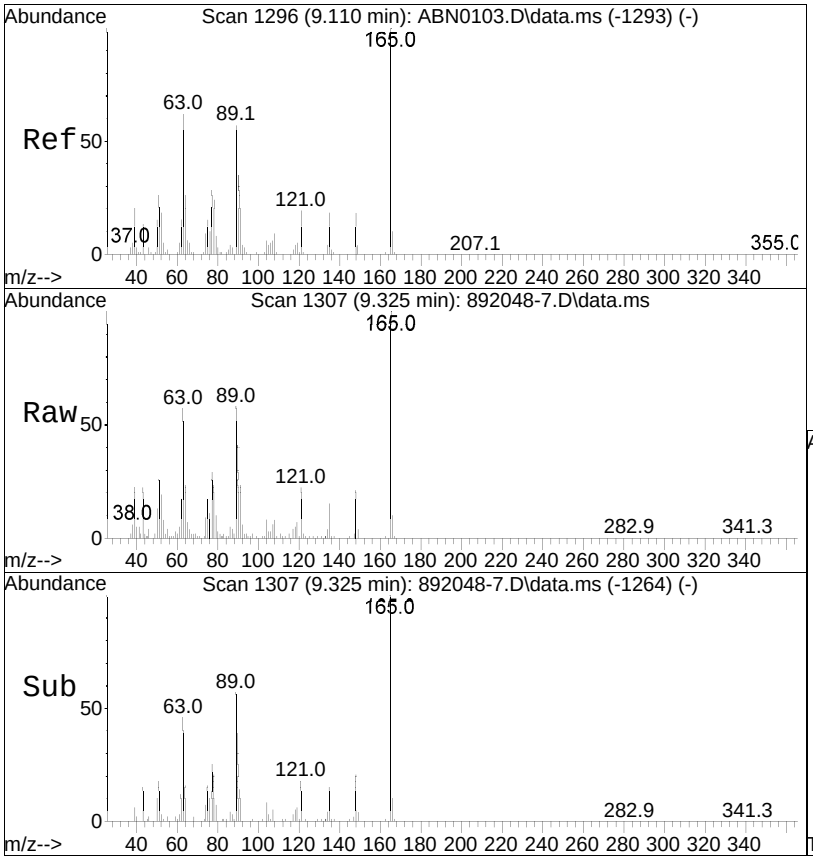


#50
Dimethyl phthalate
Concen: 3.55 ug/ml
RT: 9.283 min Scan# 1300
Delta R.T. 0.000 min
Lab File: 892048-7.D
Acq: 5 Mar 2024 7:46 pm

Tgt Ion:163 Resp: 106440

Ion	Ratio	Lower	Upper
163	100		
194	3.2	3.5	5.3#
164	11.2	7.9	11.9

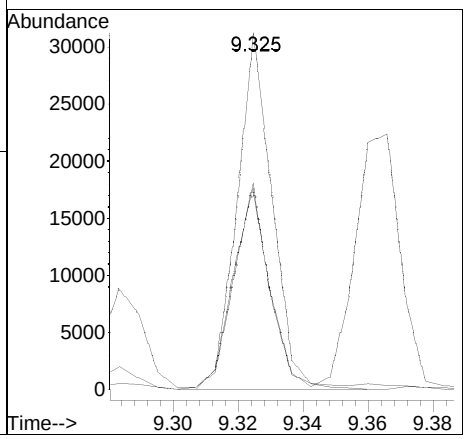


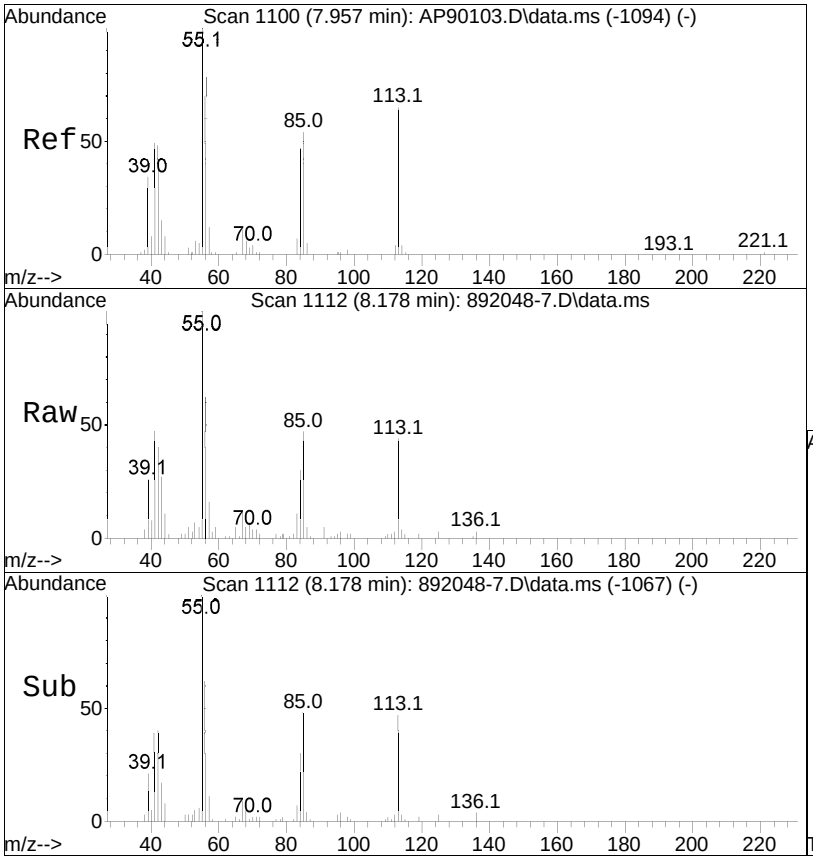


#52
2,6-Dinitrotoluene
Concen: 4.14 ug/ml
RT: 9.325 min Scan# 1307
Delta R.T. 0.000 min
Lab File: 892048-7.D
Acq: 5 Mar 2024 7:46 pm

Tgt Ion:165 Resp: 23465

Ion	Ratio	Lower	Upper
165	100		
89	59.3	54.2	81.2
63	58.2	64.2	96.2#

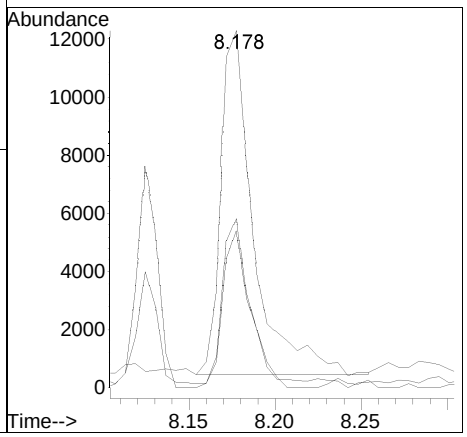


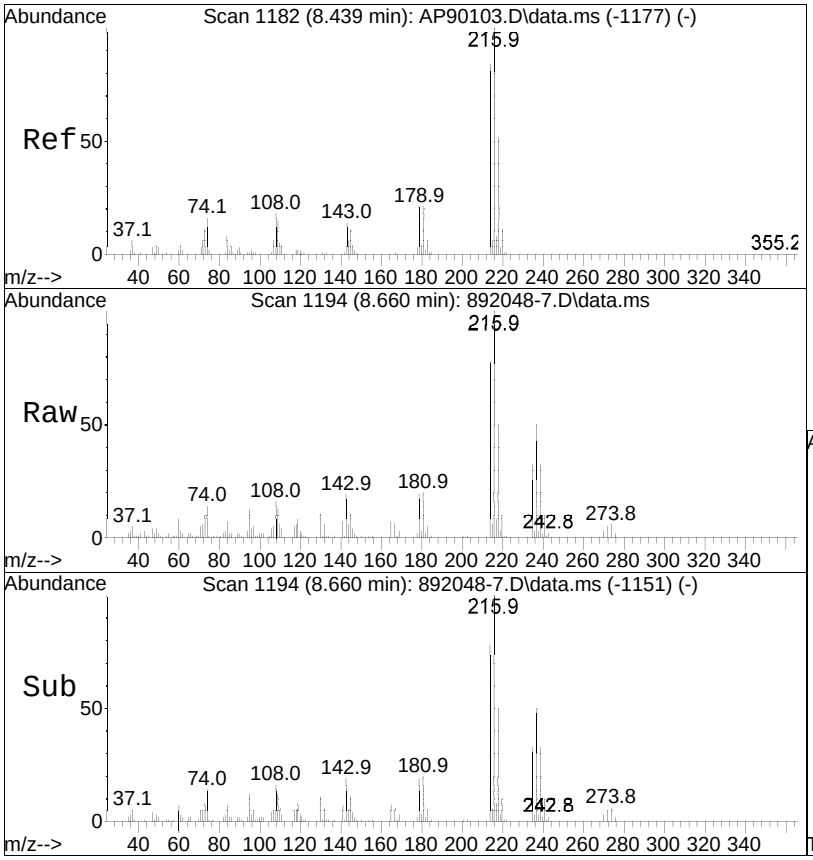


#59
Caprolactam
Concen: 2.81 ug/ml
RT: 8.178 min Scan# 1112
Delta R.T. 0.012 min
Lab File: 892048-7.D
Acq: 5 Mar 2024 7:46 pm

Tgt Ion: 55 Resp: 15696

Ion	Ratio	Lower	Upper
55	100		
85	40.9	19.8	29.6#
113	38.7	29.6	44.4

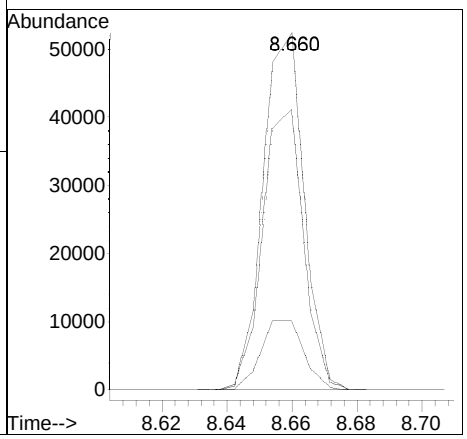


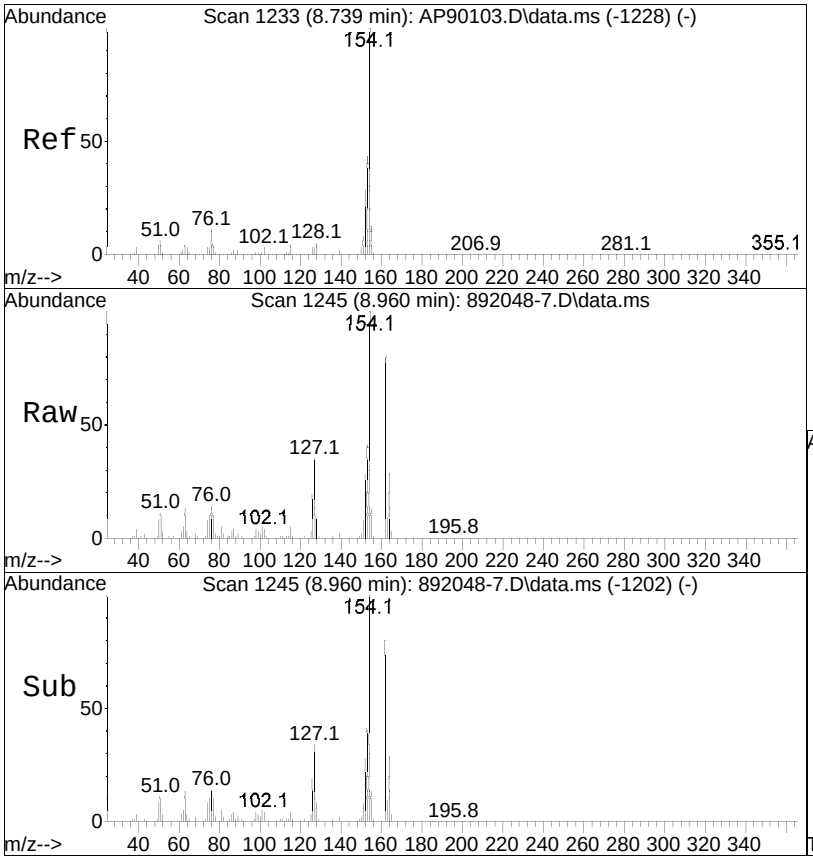


#60
1,2,4,5-Tetrachlorobenzene
Concen: 3.46 ug/ml
RT: 8.660 min Scan# 1194
Delta R.T. 0.000 min
Lab File: 892048-7.D
Acq: 5 Mar 2024 7:46 pm

Tgt Ion:216 Resp: 45919

Ion	Ratio	Lower	Upper
216	100		
214	78.5	63.7	95.5
179	20.6	19.0	28.6

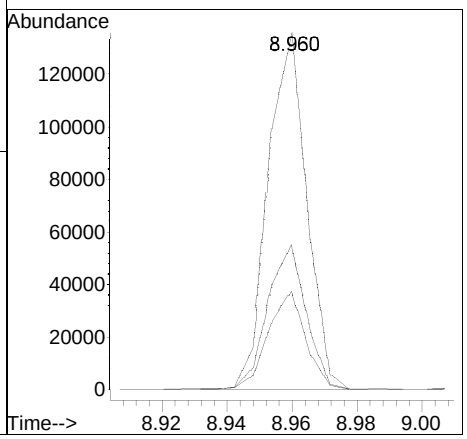


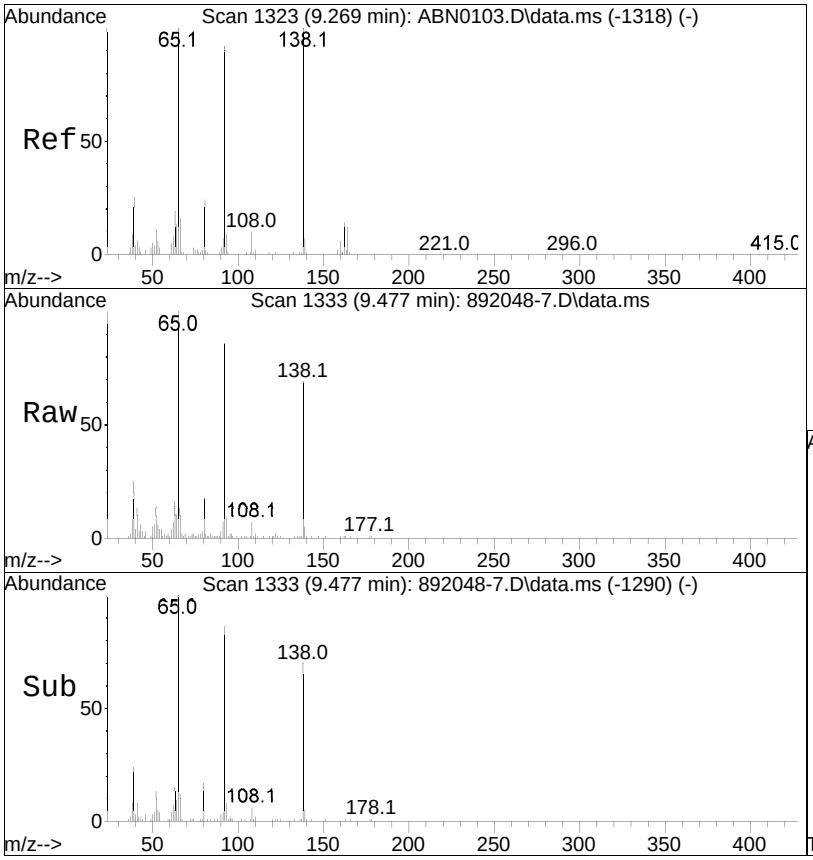


#61
Biphenyl
Concen: 3.42 ug/ml
RT: 8.960 min Scan# 1245
Delta R.T. 0.000 min
Lab File: 892048-7.D
Acq: 5 Mar 2024 7:46 pm

Tgt Ion:154 Resp: 111519

Ion	Ratio	Lower	Upper
154	100		
153	40.6	32.3	48.5
152	27.2	22.5	33.7

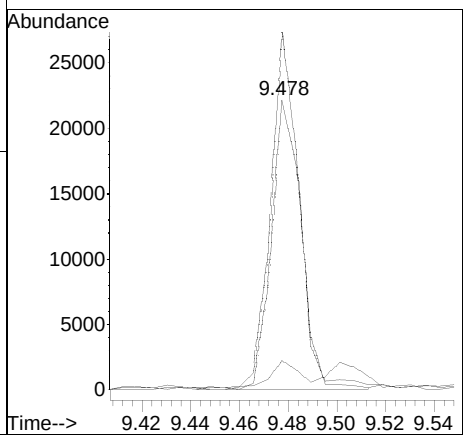


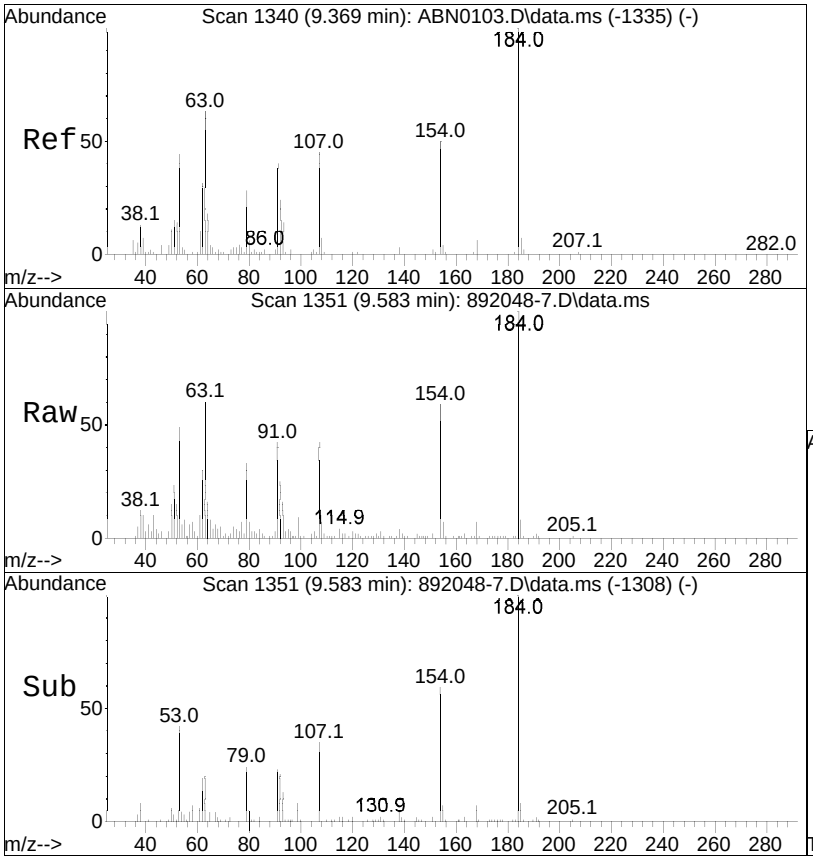


#63
3-Nitroaniline
Concen: 2.69 ug/ml
RT: 9.477 min Scan# 1333
Delta R.T. 0.000 min
Lab File: 892048-7.D
Acq: 5 Mar 2024 7:46 pm

Tgt Ion:138 Resp: 18596

Ion	Ratio	Lower	Upper
138	100		
92	119.6	93.4	140.2
108	9.2	9.5	14.3#

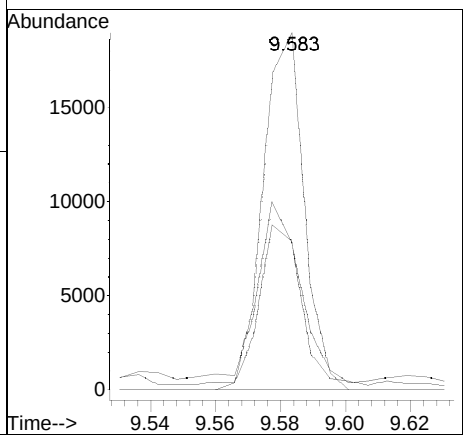


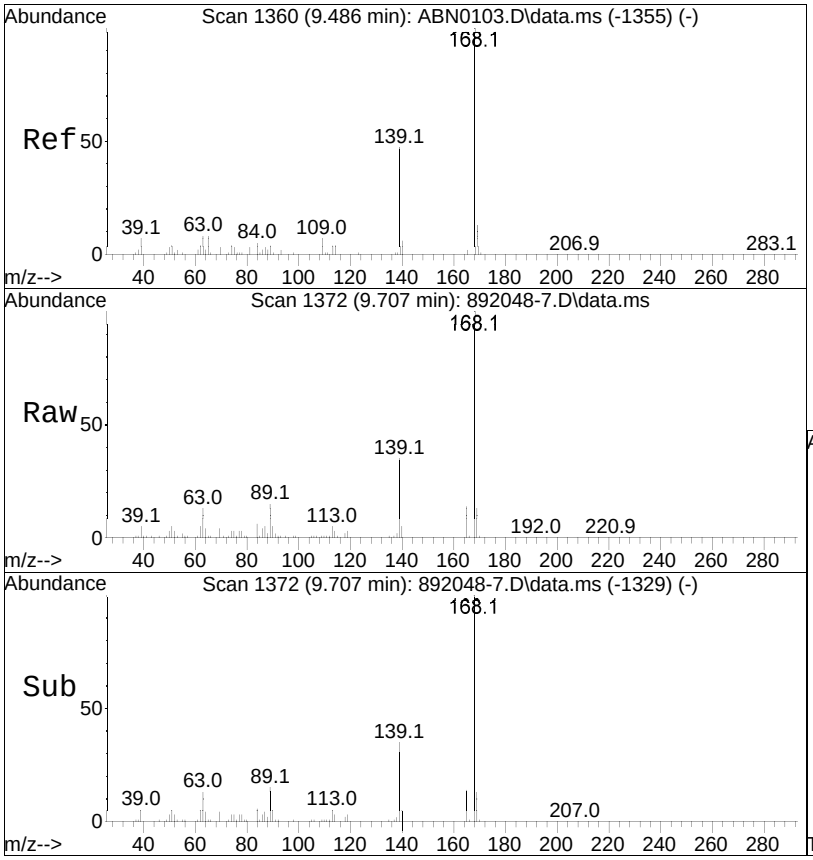


#65
2,4-Dinitrophenol
Concen: 5.34 ug/ml
RT: 9.583 min Scan# 1351
Delta R.T. 0.000 min
Lab File: 892048-7.D
Acq: 5 Mar 2024 7:46 pm

Tgt Ion:184 Resp: 16542

Ion	Ratio	Lower	Upper
184	100		
107	46.2	37.7	56.5
91	51.1	46.3	69.5

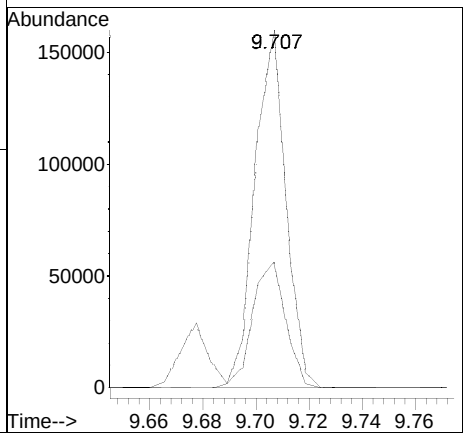


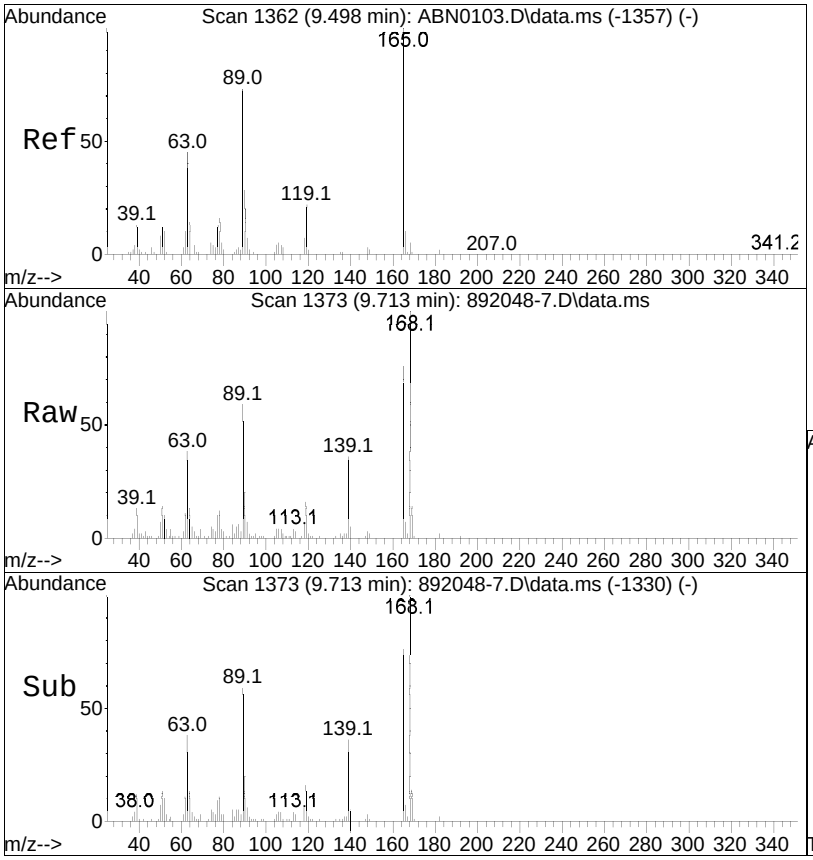


#66
Dibenzofuran
Concen: 3.15 ug/ml
RT: 9.707 min Scan# 1372
Delta R.T. 0.000 min
Lab File: 892048-7.D
Acq: 5 Mar 2024 7:46 pm

Tgt Ion:168 Resp: 128694

Ion	Ratio	Lower	Upper
168	100		
139	37.2	31.4	47.2

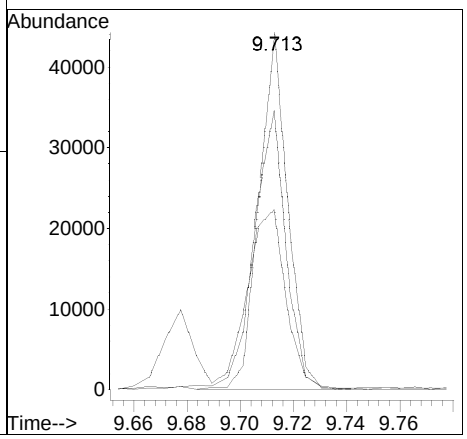


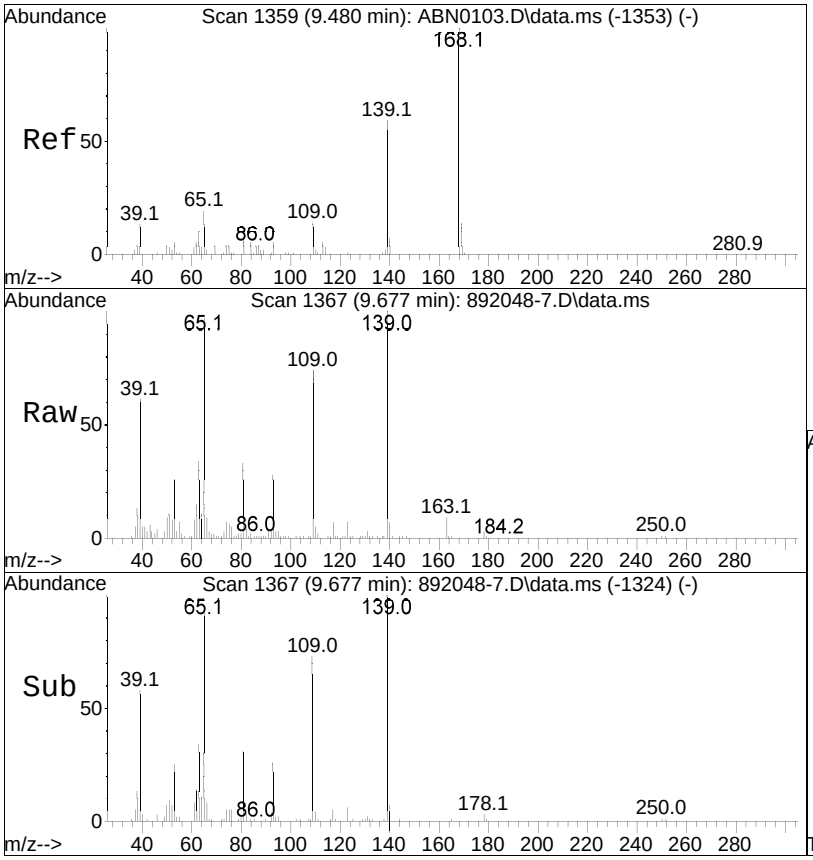


#67
2,4-Dinitrotoluene
Concen: 3.86 ug/ml
RT: 9.713 min Scan# 1373
Delta R.T. 0.000 min
Lab File: 892048-7.D
Acq: 5 Mar 2024 7:46 pm

Tgt Ion:165 Resp: 32819

Ion	Ratio	Lower	Upper
165	100		
89	89.5	72.0	108.0
63	67.5	52.7	79.1

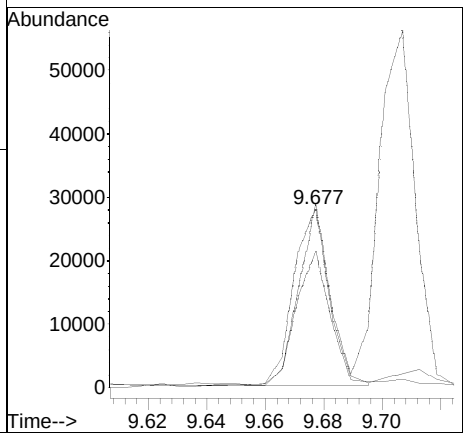


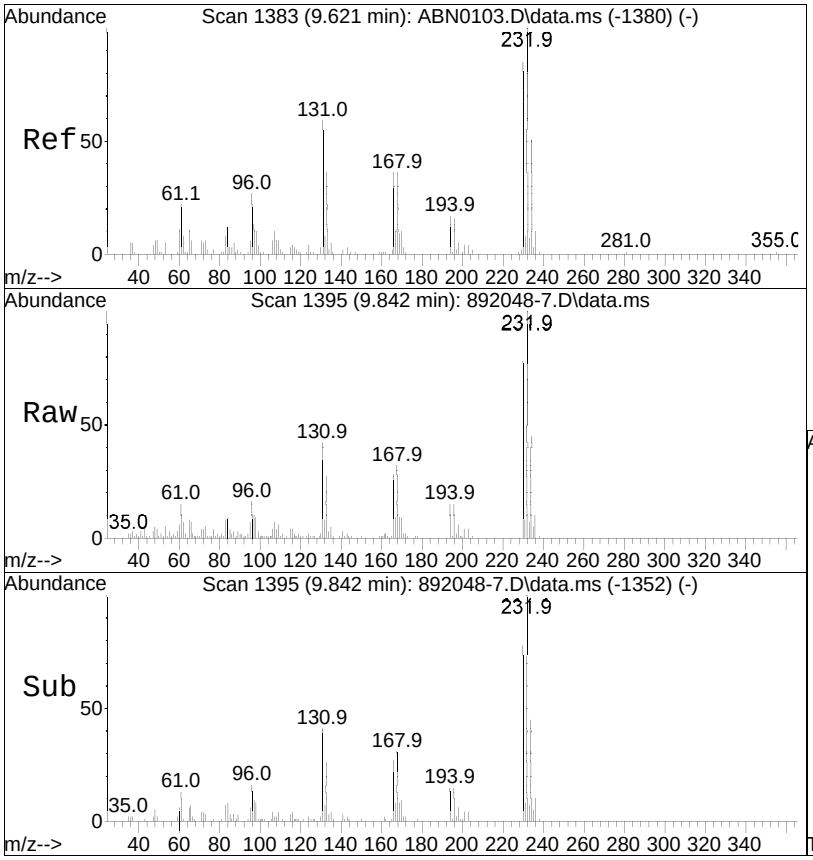


#68
4-Nitrophenol
Concen: 3.72 ug/ml
RT: 9.677 min Scan# 1367
Delta R.T. 0.000 min
Lab File: 892048-7.D
Acq: 5 Mar 2024 7:46 pm

Tgt Ion: 65 Resp: 23594

Ion	Ratio	Lower	Upper
65	100		
109	71.7	47.4	71.2#
139	91.1	76.6	115.0

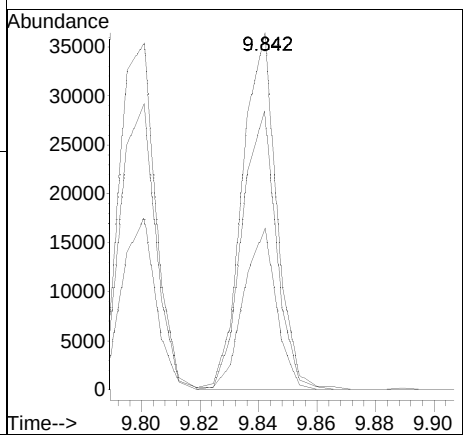


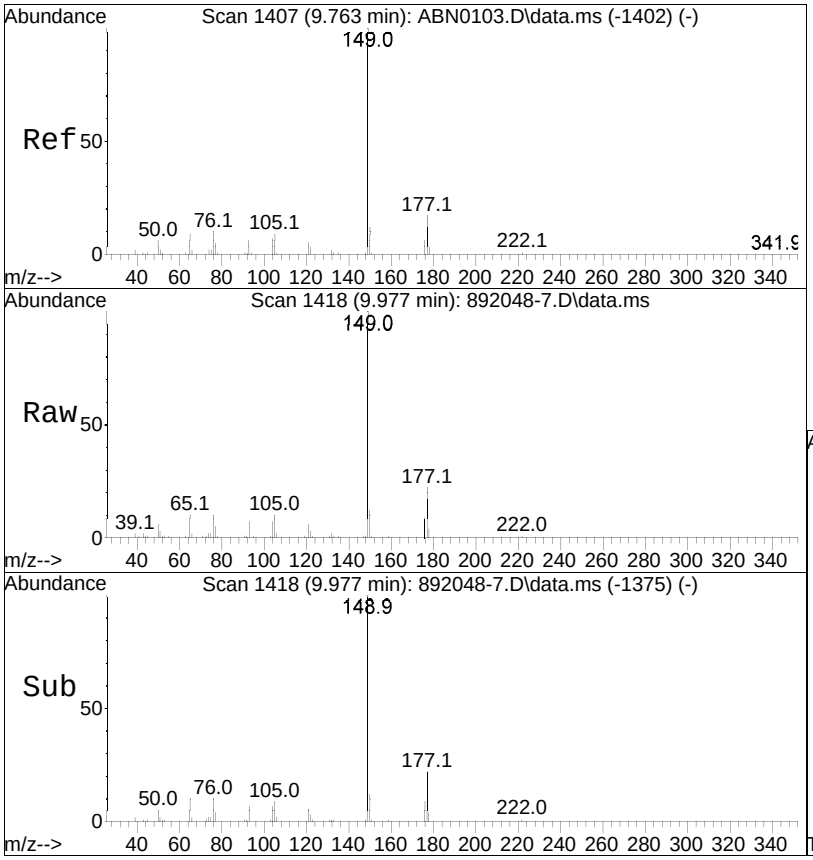


#70
2,3,4,6-Tetrachlorophenol
Concen: 3.65 ug/ml
RT: 9.842 min Scan# 1395
Delta R.T. 0.000 min
Lab File: 892048-7.D
Acq: 5 Mar 2024 7:46 pm

Tgt Ion:232 Resp: 29786

Ion	Ratio	Lower	Upper
232	100		
230	77.9	61.8	92.8
234	43.4	36.2	54.2

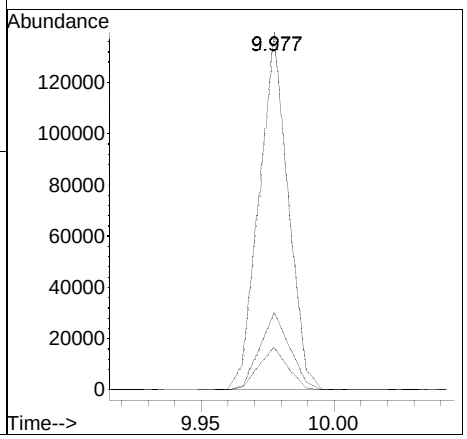


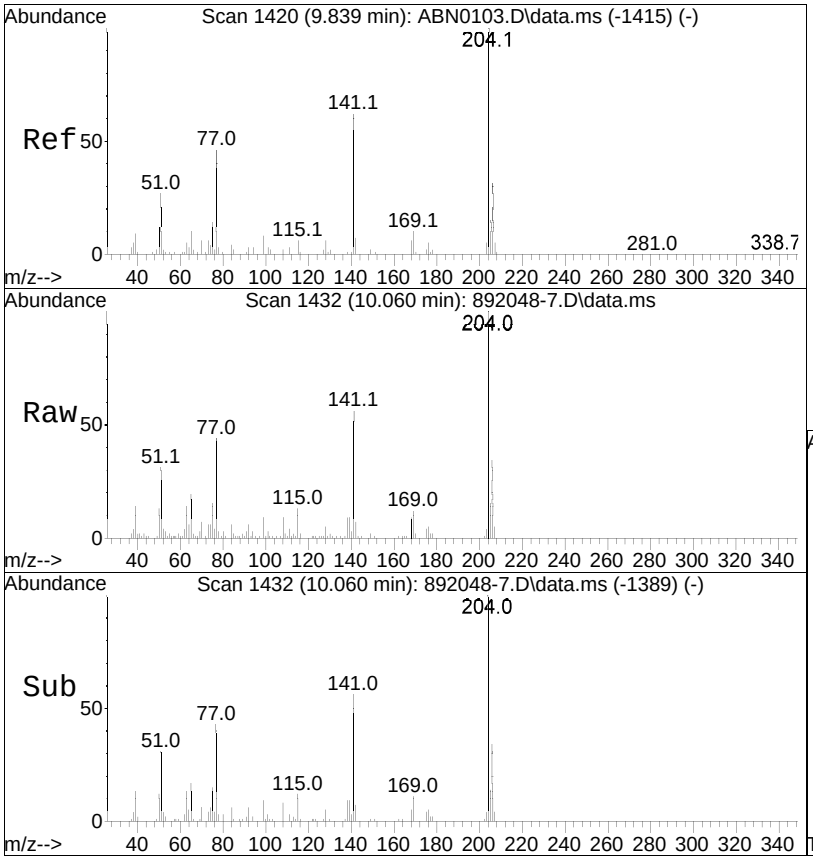


#71
Diethyl phthalate
Concen: 3.06 ug/ml
RT: 9.977 min Scan# 1418
Delta R.T. 0.000 min
Lab File: 892048-7.D
Acq: 5 Mar 2024 7:46 pm

Tgt Ion:149 Resp: 104628

Ion	Ratio	Lower	Upper
149	100		
177	22.7	16.1	24.1
150	12.5	9.4	14.2

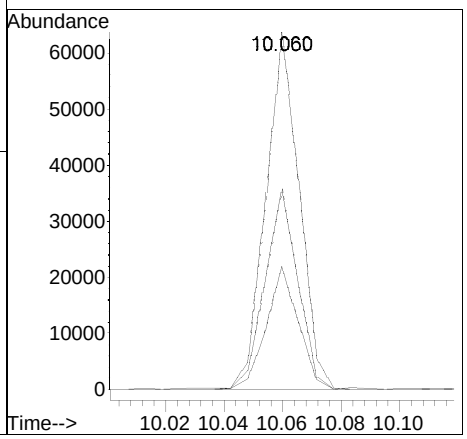


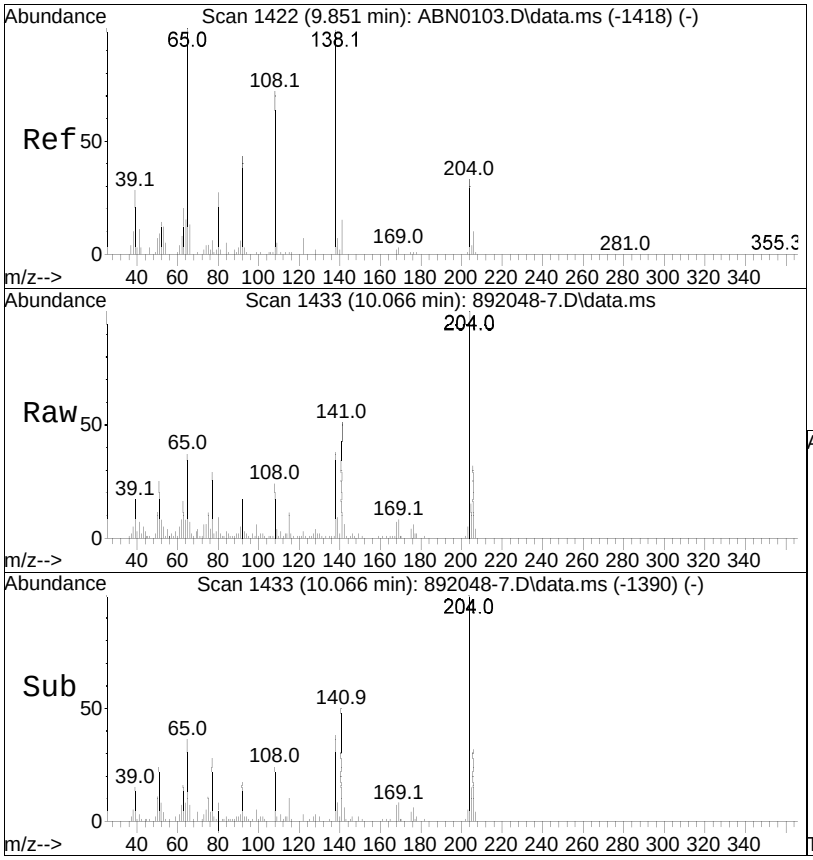


#73
4-Chlorophenyl phenyl ether
Concen: 3.25 ug/ml
RT: 10.060 min Scan# 1432
Delta R.T. 0.000 min
Lab File: 892048-7.D
Acq: 5 Mar 2024 7:46 pm

Tgt Ion:204 Resp: 50035

Ion	Ratio	Lower	Upper
204	100		
206	33.4	25.8	38.6
141	56.2	53.6	80.4

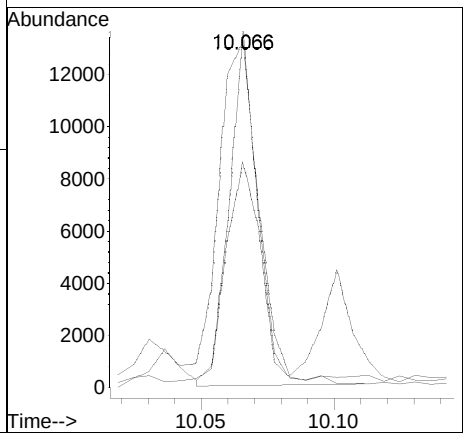


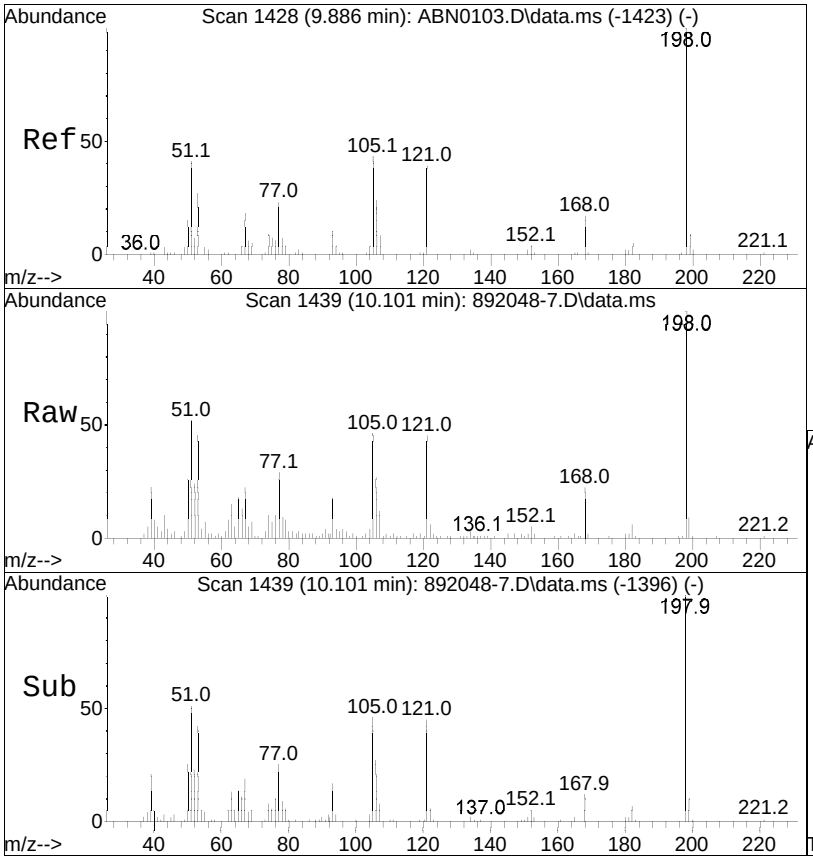


#74
4-Nitroaniline
Concen: 1.46 ug/ml
RT: 10.066 min Scan# 1433
Delta R.T. 0.000 min
Lab File: 892048-7.D
Acq: 5 Mar 2024 7:46 pm

Tgt Ion:138 Resp: 10220

Ion	Ratio	Lower	Upper
138	100		
108	73.8	52.1	78.1
65	129.9	115.0	172.6

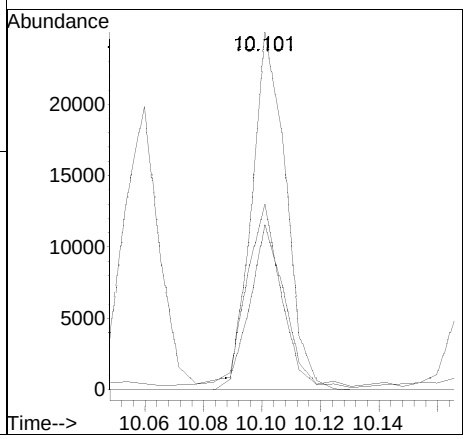


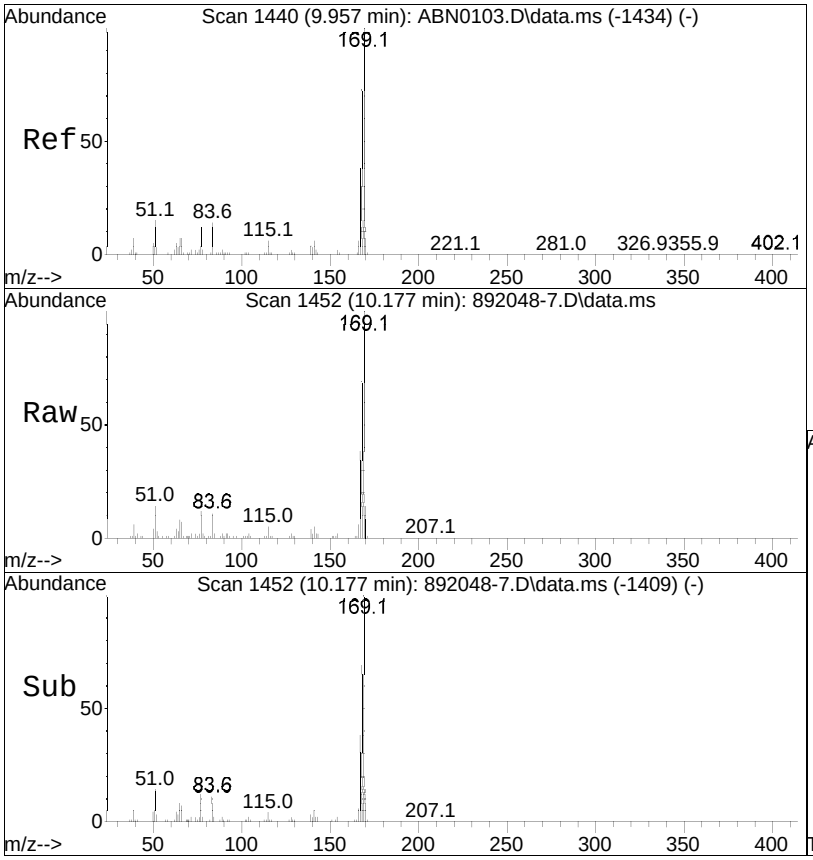


#75
4,6-Dinitro-o-cresol
Concen: 5.09 ug/ml
RT: 10.101 min Scan# 1439
Delta R.T. 0.000 min
Lab File: 892048-7.D
Acq: 5 Mar 2024 7:46 pm

Tgt Ion:198 Resp: 20384

Ion	Ratio	Lower	Upper
198	100		
51	51.5	76.0	114.0#
105	47.8	45.6	68.4

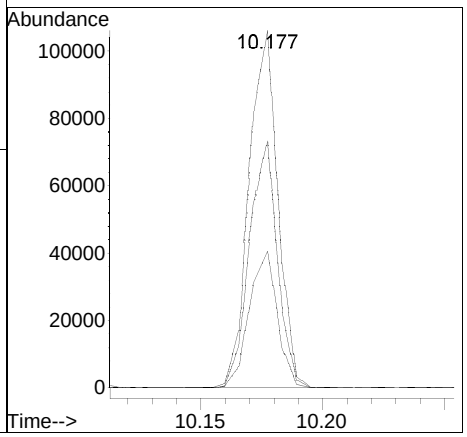


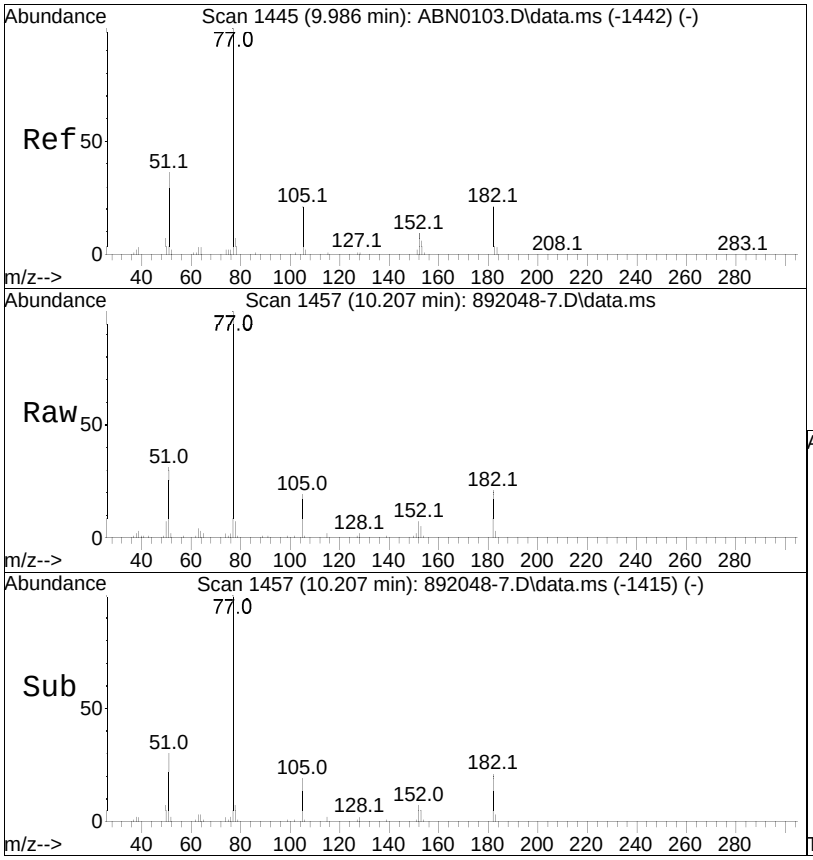


#76
NDPA/DPA
Concen: 3.20 ug/ml
RT: 10.177 min Scan# 1452
Delta R.T. 0.000 min
Lab File: 892048-7.D
Acq: 5 Mar 2024 7:46 pm

Tgt Ion:169 Resp: 87098

Ion	Ratio	Lower	Upper
169	100		
168	67.2	54.0	81.0
167	37.8	28.6	42.8

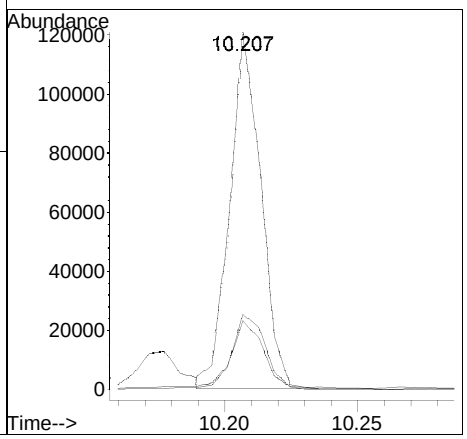


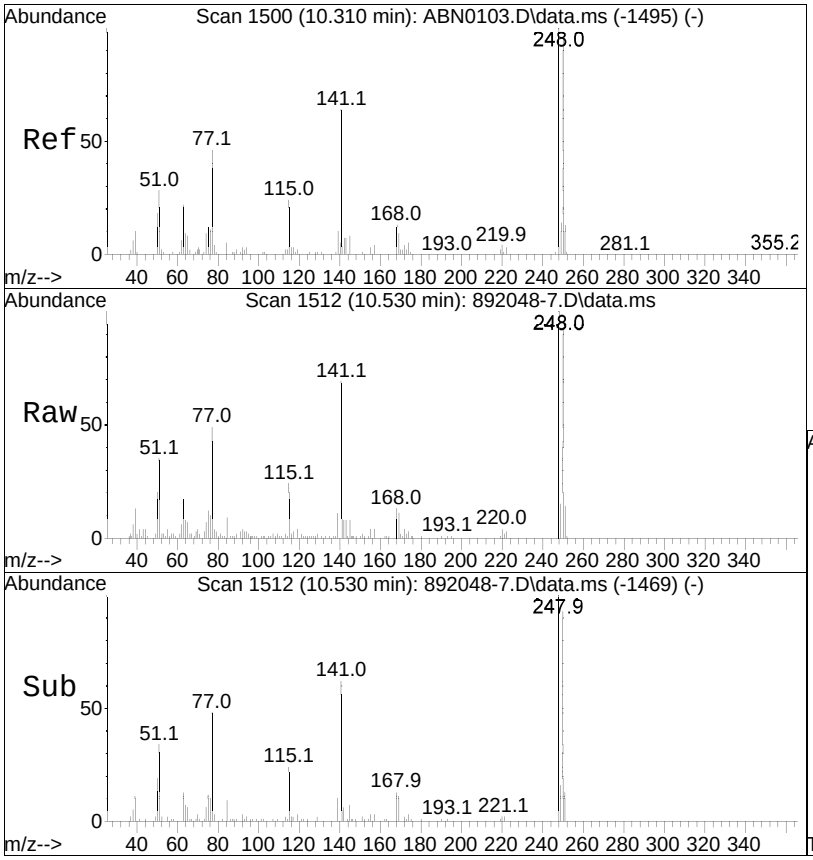


#77
Azobenzene
Concen: 3.05 ug/ml
RT: 10.207 min Scan# 1457
Delta R.T. -0.006 min
Lab File: 892048-7.D
Acq: 5 Mar 2024 7:46 pm

Tgt Ion: 77 Resp: 97480

Ion	Ratio	Lower	Upper
77	100		
182	23.9	17.4	26.2
105	22.3	15.4	23.2

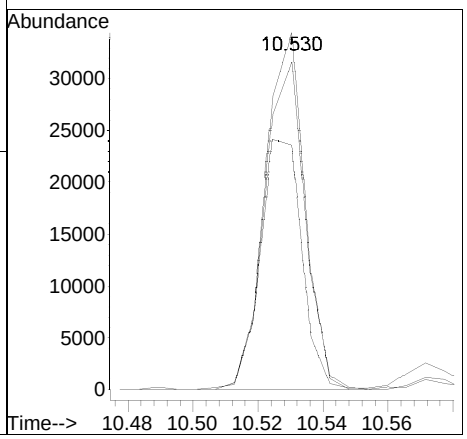


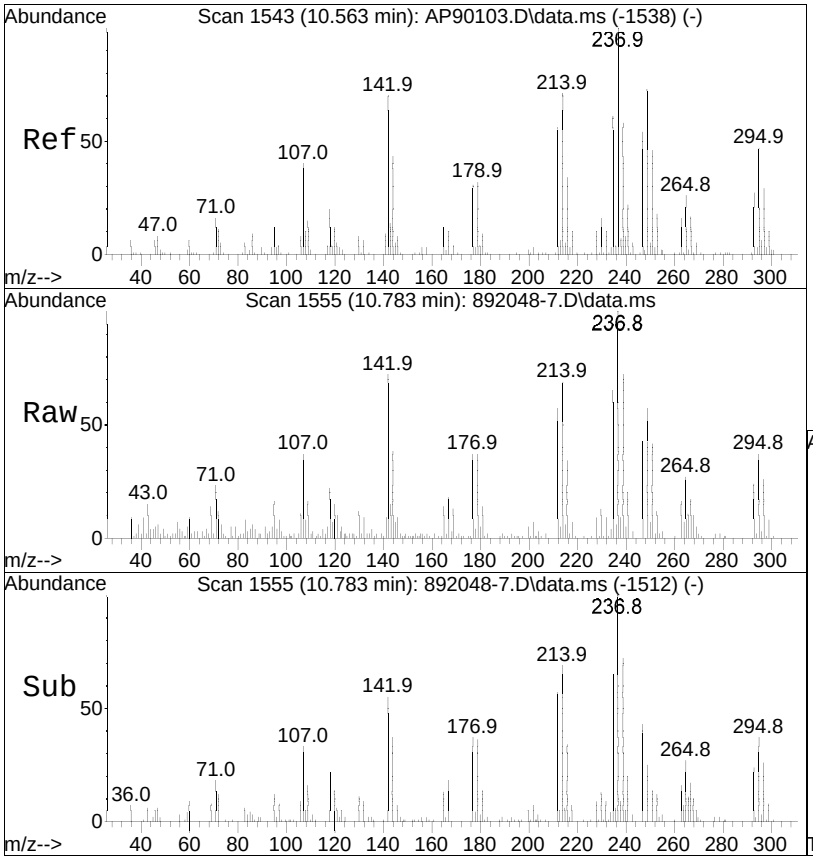


#79
4-Bromophenyl phenyl ether
Concen: 3.27 ug/ml
RT: 10.530 min Scan# 1512
Delta R.T. 0.000 min
Lab File: 892048-7.D
Acq: 5 Mar 2024 7:46 pm

Tgt Ion:248 Resp: 29305

Ion	Ratio	Lower	Upper
248	100		
141	73.5	76.6	114.8#
250	94.0	77.3	115.9

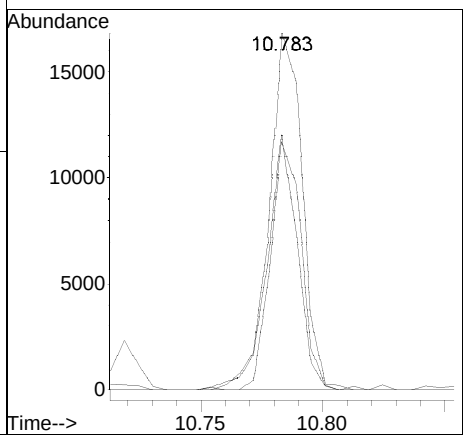


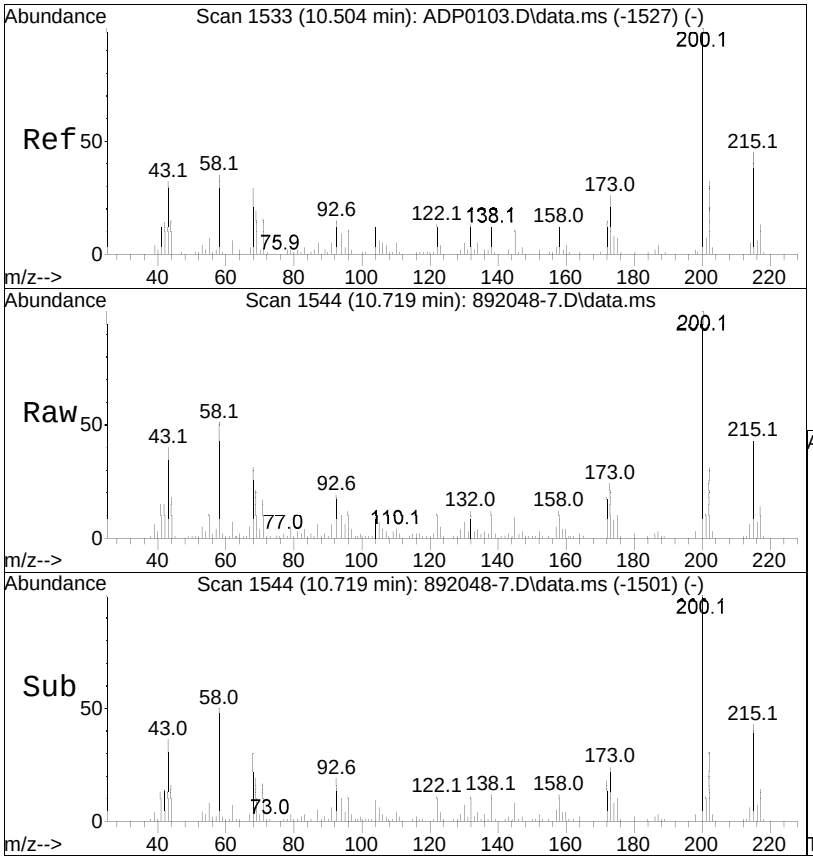


#84
Pentachloronitrobenzene
Concen: 3.97 ug/ml
RT: 10.783 min Scan# 1555
Delta R.T. 0.000 min
Lab File: 892048-7.D
Acq: 5 Mar 2024 7:46 pm

Tgt Ion:237 Resp: 15848

Ion	Ratio	Lower	Upper
237	100		
142	65.7	77.0	115.4#
214	64.7	58.2	87.4

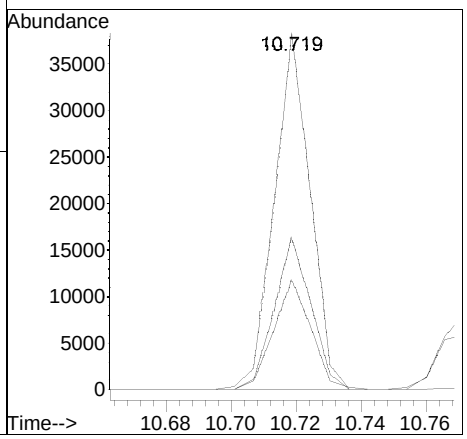


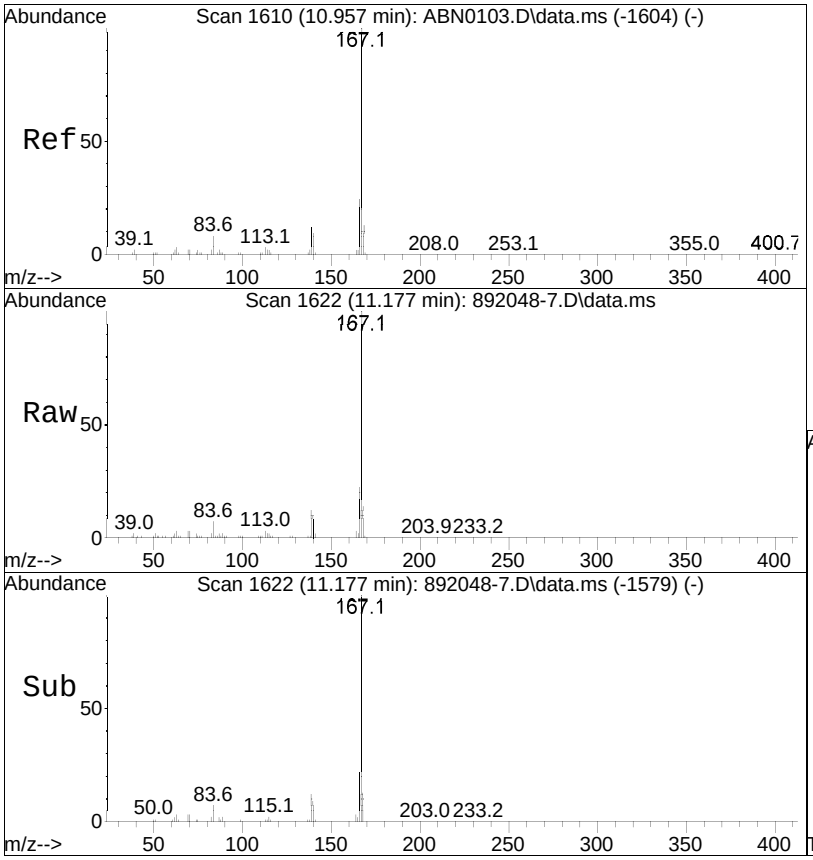


#86
Atrazine
Concen: 3.49 ug/ml
RT: 10.719 min Scan# 1544
Delta R.T. 0.000 min
Lab File: 892048-7.D
Acq: 5 Mar 2024 7:46 pm

Tgt Ion:200 Resp: 29082

Ion	Ratio	Lower	Upper
200	100		
202	32.2	25.8	38.6
215	43.8	40.2	60.4

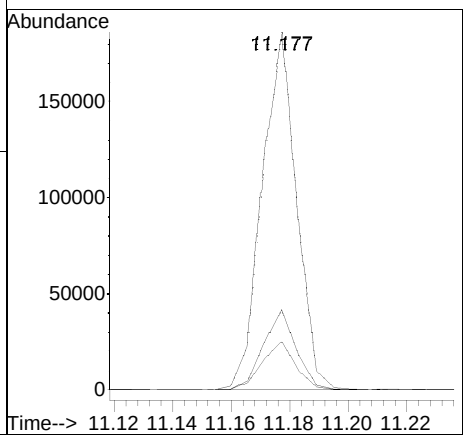


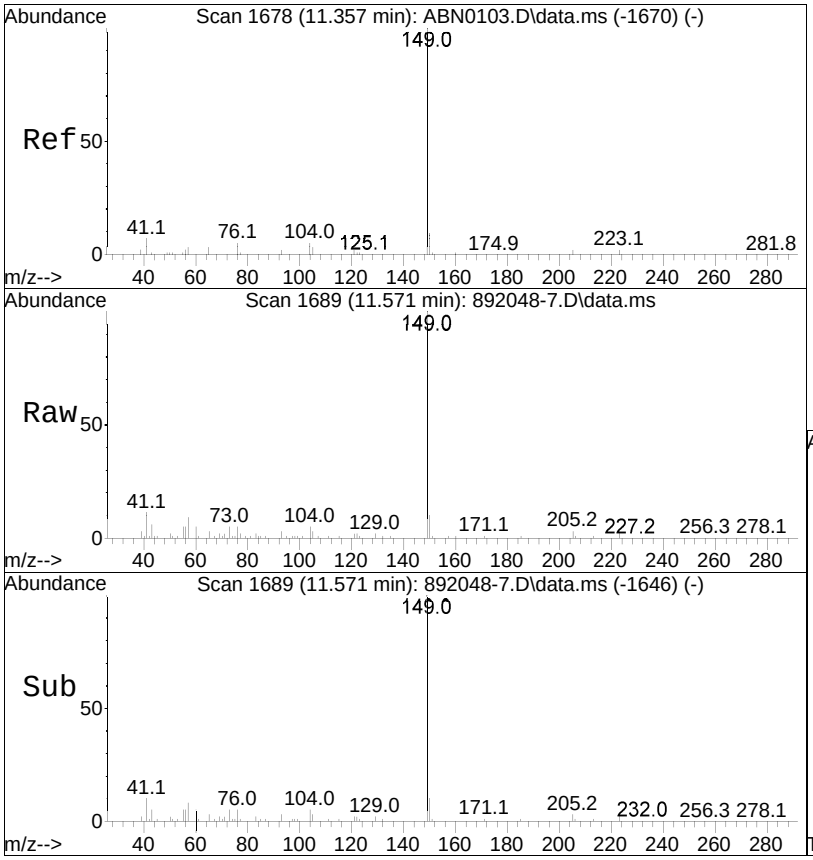


#90
Carbazole
Concen: 3.32 ug/ml
RT: 11.177 min Scan# 1622
Delta R.T. 0.000 min
Lab File: 892048-7.D
Acq: 5 Mar 2024 7:46 pm

Tgt Ion:167 Resp: 150255

Ion	Ratio	Lower	Upper
167	100		
168	13.6	10.6	15.8
166	21.7	17.4	26.0

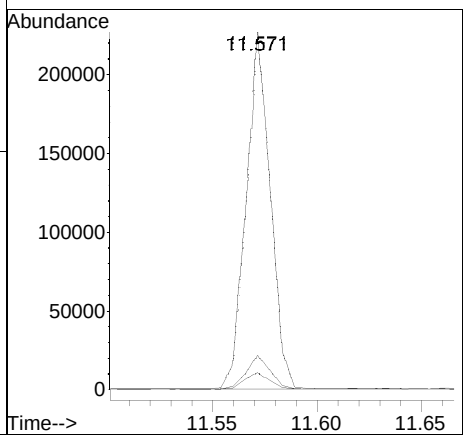


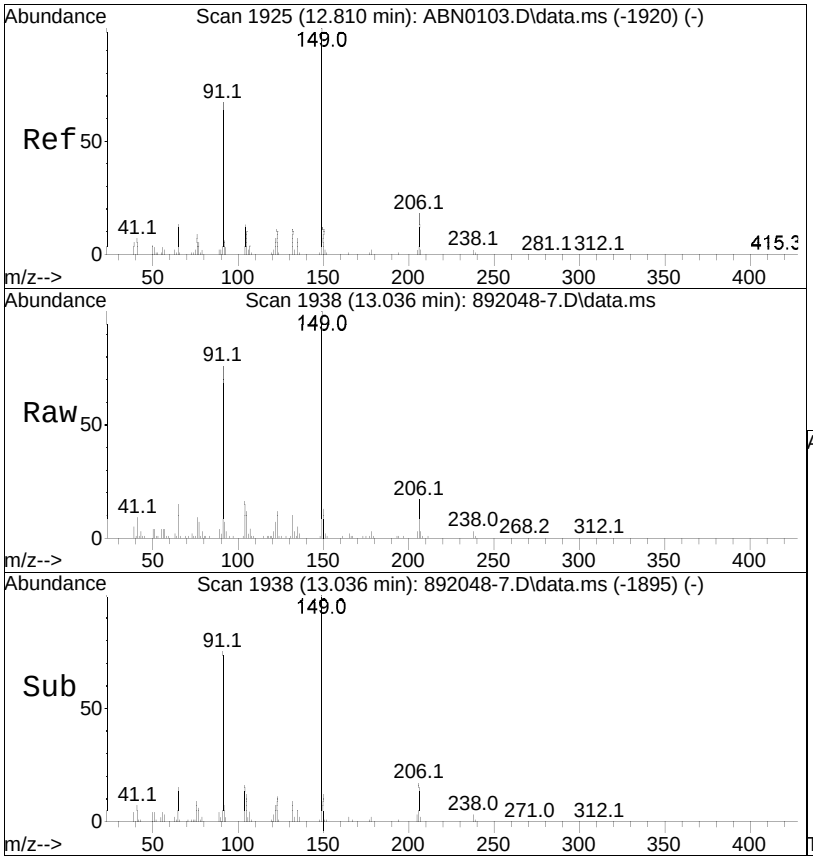


#91
Di-n-butylphthalate
Concen: 3.07 ug/ml
RT: 11.571 min Scan# 1689
Delta R.T. 0.000 min
Lab File: 892048-7.D
Acq: 5 Mar 2024 7:46 pm

Tgt Ion:149 Resp: 178290

Ion	Ratio	Lower	Upper
149	100		
150	9.5	7.0	10.6
104	5.0	4.5	6.7

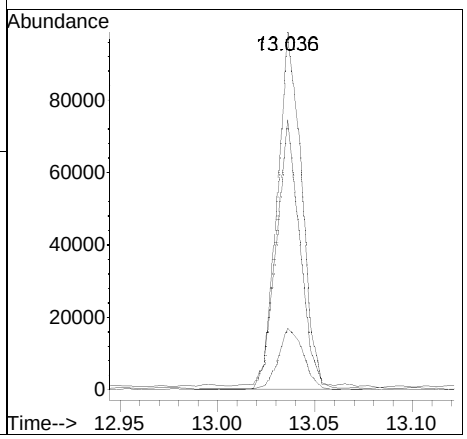


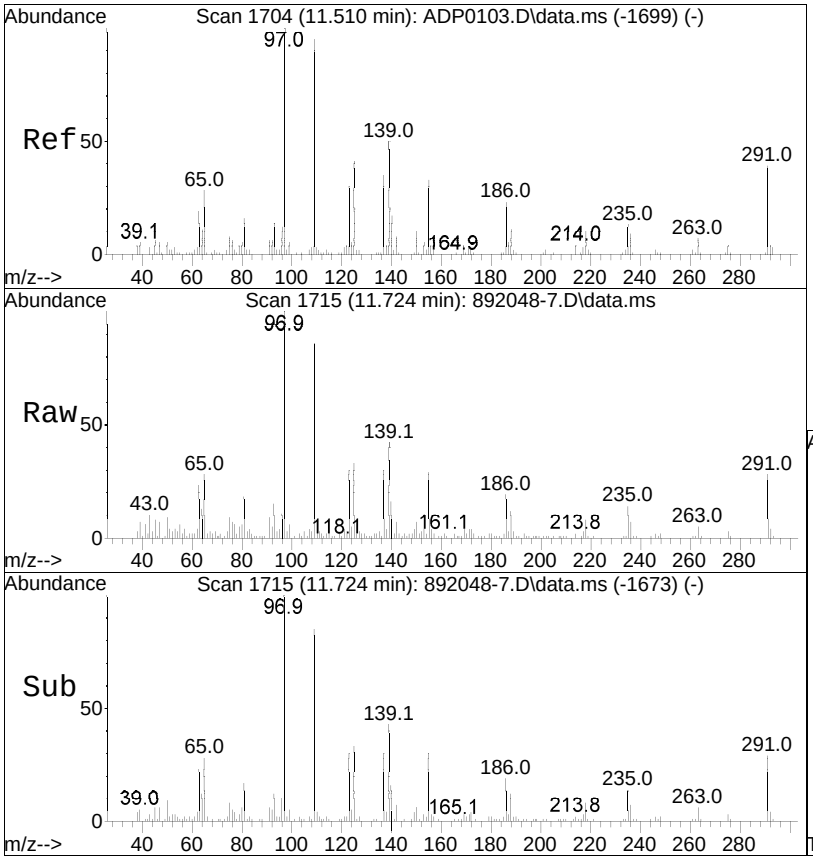


#96
Butyl benzyl phthalate
Concen: 3.41 ug/ml
RT: 13.036 min Scan# 1938
Delta R.T. 0.000 min
Lab File: 892048-7.D
Acq: 5 Mar 2024 7:46 pm

Tgt Ion:149 Resp: 84510

Ion	Ratio	Lower	Upper
149	100		
91	73.5	63.3	94.9
206	18.4	13.9	20.9

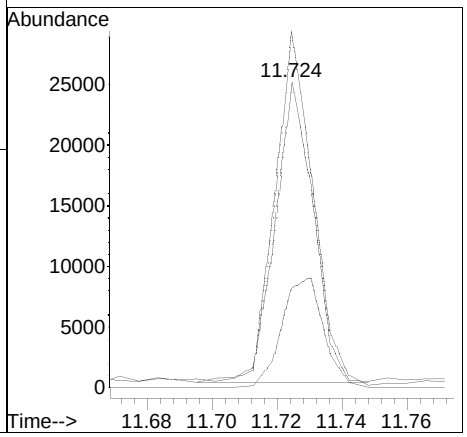


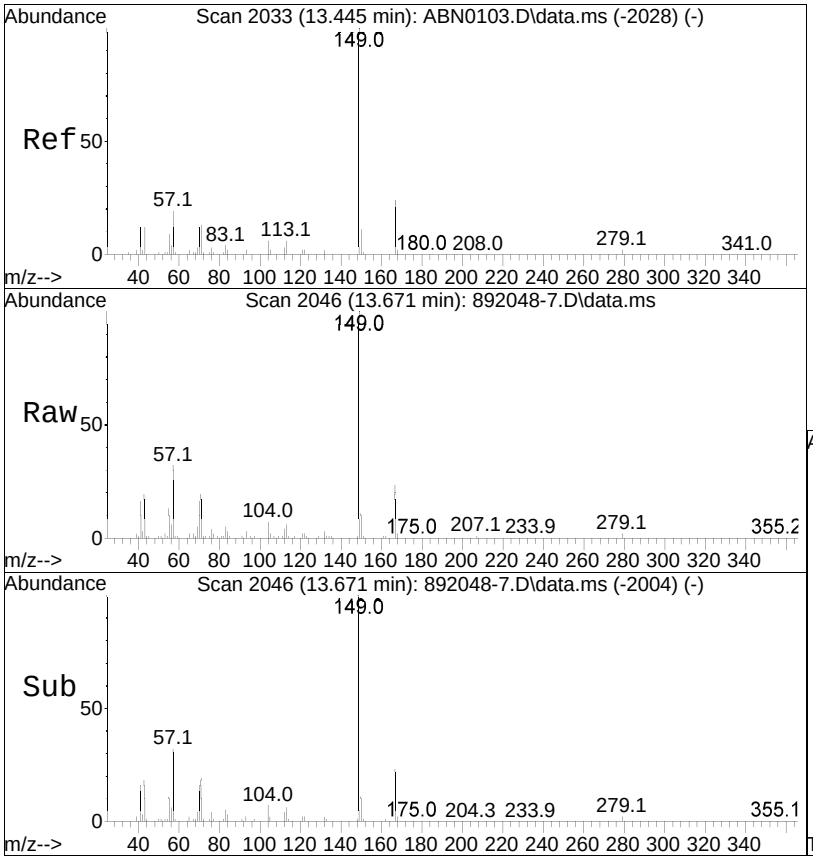


#101
Parathion
Concen: 4.71 ug/ml
RT: 11.724 min Scan# 1715
Delta R.T. -0.006 min
Lab File: 892048-7.D
Acq: 5 Mar 2024 7:46 pm

Tgt Ion:109 Resp: 20248

Ion	Ratio	Lower	Upper
109	100		
97	115.4	87.4	131.2
291	39.8	34.2	51.2

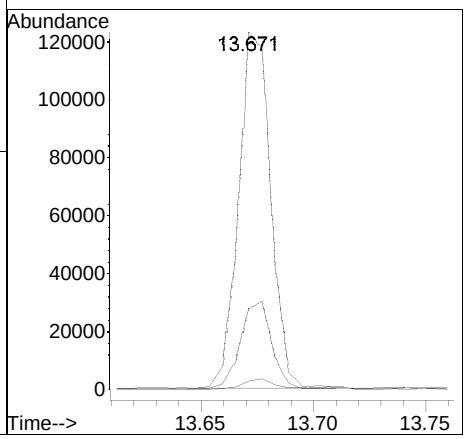


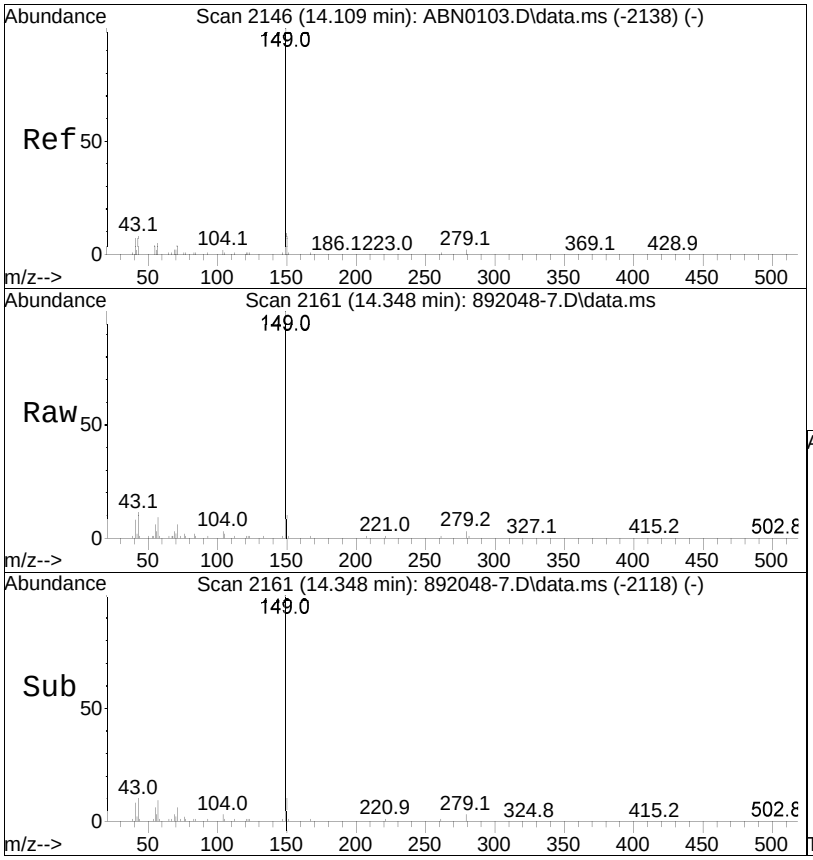


#107
Bis(2-ethylhexyl)phthalate
Concen: 3.32 ug/ml
RT: 13.671 min Scan# 2046
Delta R.T. -0.006 min
Lab File: 892048-7.D
Acq: 5 Mar 2024 7:46 pm

Tgt Ion:149 Resp: 120638

Ion	Ratio	Lower	Upper
149	100		
167	24.3	22.1	33.1
279	2.9	3.0	4.4#

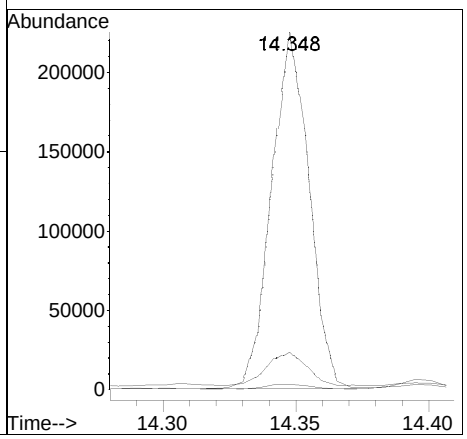




#108
Di-n-octylphthalate
Concen: 3.57 ug/ml
RT: 14.348 min Scan# 2161
Delta R.T. 0.000 min
Lab File: 892048-7.D
Acq: 5 Mar 2024 7:46 pm

Tgt Ion:149 Resp: 218464

Ion	Ratio	Lower	Upper
149	100		
43	10.4	18.8	28.2#
167	1.5	1.3	1.9

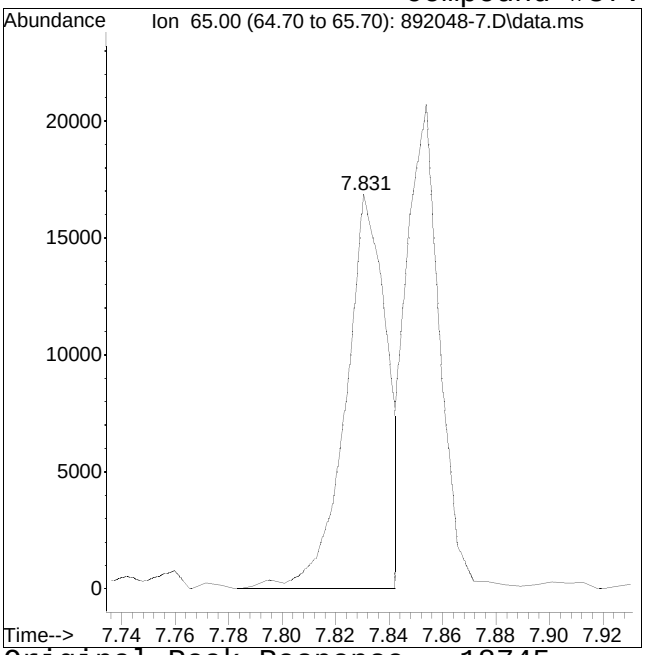


Manual Integration Report

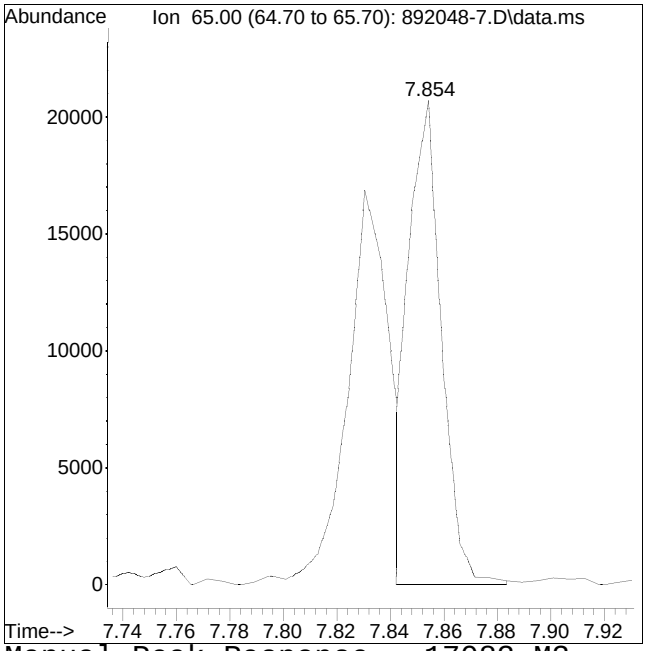
Data Path : I:\8270\SV106\240305lvi\
Data File : 892048-7.D
Date Inj'd : 3/5/2024 7:46 pm
Sample : WG1892048-7,32,,HNY

QMethod : FS230902SV106.m
Operator : SV106:ek
Instrument : SV 106
Quant Date : 3/5/2024 8:07 pm

Compound #37: 4-Chloroaniline



Original Peak Response = 18745



Manual Peak Response = 17083 M3

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240305nlvi\
Data File : 892048-9.D
Acq On : 6 Mar 2024 7:39 am
Operator : SV106:sz
Sample : WG1892048-9,32,,ASK
Misc : WG1891343,WG1892048,ical20337
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Mar 06 11:30:46 2024
Quant Method : I:\8270\sv106\240305nlvi\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Mar 06 08:00:58 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv106\240305nlvi\ABN0305n.D
: 2 - I:\8270\sv106\240305nlvi\ADP0305n.D
: 3 - I:\8270\sv106\240305nlvi\AP90305n.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	6.225	152	48918	4.000	ug/ml	0.00
Standard Area 1 = 30982			Recovery = 157.89%			
27) IS2_1,4-Dichlorobenzen...	6.225	152	48918	4.000	ug/ml	0.00
Standard Area 3 = 44853			Recovery = 109.06%			
34) IS1_Naphthalene-d8	7.672	136	180110	4.000	ug/ml	# 0.00
Standard Area 1 = 119694			Recovery = 150.48%			
54) IS2_Naphthalene-d8	7.672	136	180110	4.000	ug/ml	# 0.00
Standard Area 3 = 169408			Recovery = 106.32%			
62) IS1_Acenaphthene-d10	9.430	164	108081	4.000	ug/ml	0.00
Standard Area 1 = 75389			Recovery = 143.36%			
82) IS2_Acenaphthene-d10	9.430	164	108081	4.000	ug/ml	0.00
Standard Area 3 = 103448			Recovery = 104.48%			
85) IS3_Acenaphthene-d10	9.430	164	108081	4.000	ug/ml	0.00
Standard Area 2 = 101571			Recovery = 106.41%			
87) IS1_Phenanthrene-d10	10.866	188	218871	4.000	ug/ml	0.00
Standard Area 1 = 155798			Recovery = 140.48%			
99) IS3_Phenanthrene-d10	10.866	188	218871	4.000	ug/ml	0.00
Standard Area 2 = 234456			Recovery = 93.35%			
103) IS1_Chrysene-d12	13.471	240	172402	4.000	ug/ml	0.00
Standard Area 1 = 155365			Recovery = 110.97%			
112) IS1_Perylene-d12	14.924	264	193272	4.000	ug/ml	0.00
Standard Area 1 = 173003			Recovery = 111.72%			
System Monitoring Compounds						
4) 2-Fluorophenol	4.148	112	37079	2.718	ug/ml	0.02
Spiked Amount 5.000	Range 15 - 110		Recovery = 54.36%			
7) Phenol-d6	5.860	99	42977	2.445	ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 48.90%			
19) Nitrobenzene-d5	6.895	82	28143	1.766	ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 70.64%			
45) 2-Fluorobiphenyl	8.801	172	62014	1.804	ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 72.16%			
78) 2,4,6-Tribromophenol	10.201	330	18751	3.781	ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 75.62%			
95) 4-Terphenyl-d14	12.442	244	80411	1.675	ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 67.00%			

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240305nlvi\
Data File : 892048-9.D
Acq On : 6 Mar 2024 7:39 am
Operator : SV106:sz
Sample : WG1892048-9,32,,ASK
Misc : WG1891343,WG1892048,ical20337
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Mar 06 11:30:46 2024
Quant Method : I:\8270\sv106\240305nlvi\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Mar 06 08:00:58 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv106\240305nlvi\ABN0305n.D
: 2 - I:\8270\sv106\240305nlvi\ADP0305n.D
: 3 - I:\8270\sv106\240305nlvi\AP90305n.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Target Compounds						Qvalue
2) n-Nitrosodimethylamine	1.860	74	23424	2.828	ug/ml#	69
3) Pyridine	1.913	79	13371	0.950	ug/ml#	74
5) Aniline	5.807	93	30270	1.307	ug/ml	98
6) 2-Chlorophenol	5.954	128	49419	3.172	ug/ml	99
8) Phenol	5.878	94	55931	3.007	ug/ml	98
9) Bis(2-chloroethyl)ether	5.948	93	49310	3.300	ug/ml#	80
10) 1,3-Dichlorobenzene	6.142	146	51201	2.866	ug/ml	99
11) 1,4-Dichlorobenzene	6.242	146	53044	2.886	ug/ml	99
12) 1,2-Dichlorobenzene	6.425	146	51916	2.966	ug/ml	99
13) Benzyl alcohol	6.448	79	42583	3.243	ug/ml	94
14) Bis(2-chloroisopropyl)...	6.625	45	77745	3.533	ug/ml#	58
15) 2-Methylphenol	6.631	108	40939	2.942	ug/ml	98
17) n-Nitrosodi-n-propylamine	6.778	70	40239	3.564	ug/ml	94
18) 3-Methylphenol/4-Methy...	6.819	108	48047	3.292	ug/ml#	98
20) Nitrobenzene	6.919	77	55960	3.534	ug/ml	98
21) Isophorone	7.201	82	105581	3.484	ug/ml	95
22) 2-Nitrophenol	7.278	139	27951	4.414	ug/ml#	95
23) 2,4-Dimethylphenol	7.395	107	31465	2.009	ug/ml	93
24) Bis(2-chloroethoxy)met...	7.484	93	69001	3.635	ug/ml	99
25) 2,4-Dichlorophenol	7.548	162	48874	3.715	ug/ml	98
26) 1,2,4-Trichlorobenzene	7.625	180	50188	3.323	ug/ml	98
28) Benzaldehyde	5.625	105	47540	4.188	ug/ml	92
29) Acetophenone	6.737	105	84742	3.475	ug/ml#	84
36) Benzoic Acid	7.489	105	55940	6.127	ug/ml	99
37) 4-Chloroaniline	7.783	65	16543M3	2.783	ug/ml	
39) p-Chloro-m-cresol	8.319	107	51148	3.897	ug/ml	98
42) Hexachlorocyclopentadiene	8.589	237	26844	2.719	ug/ml	92
43) 2,4,6-Trichlorophenol	8.713	196	39413	4.196	ug/ml	98
44) 2,4,5-Trichlorophenol	8.742	196	44699	4.425	ug/ml	99
47) 2-Nitroaniline	9.007	138	34773	4.246	ug/ml	97
50) Dimethyl phthalate	9.213	163	136412	3.848	ug/ml#	97
52) 2,6-Dinitrotoluene	9.254	165	30221	4.484	ug/ml#	81
59) Caprolactam	8.101	55	15931	2.413	ug/ml#	64
60) 1,2,4,5-Tetrachloroben...	8.583	216	54999	3.511	ug/ml	98
61) Biphenyl	8.889	154	137235	3.561	ug/ml	99
63) 3-Nitroaniline	9.407	138	26417	3.417	ug/ml	95
65) 2,4-Dinitrophenol	9.507	184	18326	5.311	ug/ml#	83

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240305nlvi\
Data File : 892048-9.D
Acq On : 6 Mar 2024 7:39 am
Operator : SV106:sz
Sample : WG1892048-9,32,,ASK
Misc : WG1891343,WG1892048,ical20337
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Mar 06 11:30:46 2024
Quant Method : I:\8270\sv106\240305nlvi\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Mar 06 08:00:58 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv106\240305nlvi\ABN0305n.D
: 2 - I:\8270\sv106\240305nlvi\ADP0305n.D
: 3 - I:\8270\sv106\240305nlvi\AP90305n.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
66)	Dibenzofuran	9.630	168	162993	3.569	ug/ml	96
67)	2,4-Dinitrotoluene	9.642	165	40917	4.259	ug/ml	96
68)	4-Nitrophenol	9.607	65	25949	3.667	ug/ml#	89
70)	2,3,4,6-Tetrachlorophenol	9.766	232	36847	4.044	ug/ml	97
71)	Diethyl phthalate	9.907	149	141357	3.697	ug/ml	98
73)	4-Chlorophenyl phenyl ...	9.989	204	65183	3.785	ug/ml	91
74)	4-Nitroaniline	9.995	138	24615	3.154	ug/ml#	86
75)	4,6-Dinitro-o-cresol	10.030	198	26271	5.689	ug/ml#	64
76)	NDPA/DPA	10.107	169	109297	3.600	ug/ml	97
77)	Azobenzene	10.136	77	121341	3.404	ug/ml#	90
79)	4-Bromophenyl phenyl e...	10.460	248	40896	4.081	ug/ml#	85
84)	Pentachloronitrobenzene	10.713	237	20028	4.447	ug/ml#	81
86)	Atrazine	10.648	200	38315	4.114	ug/ml	95
90)	Carbazole	11.107	167	181585	3.350	ug/ml	99
91)	Di-n-butylphthalate	11.507	149	242573	3.494	ug/ml	98
93)	Benzidine	0.000		0	N.D.		
96)	Butyl benzyl phthalate	12.966	149	99143	3.347	ug/ml	92
101)	Parathion	11.660	109	28123	5.474	ug/ml	97
105)	3,3'-Dichlorobenzidine	13.471	252	39647	1.950	ug/ml	97
107)	Bis(2-ethylhexyl)phtha...	13.601	149	144774	3.780	ug/ml#	95
108)	Di-n-octylphthalate	14.277	149	249624	3.863	ug/ml#	74

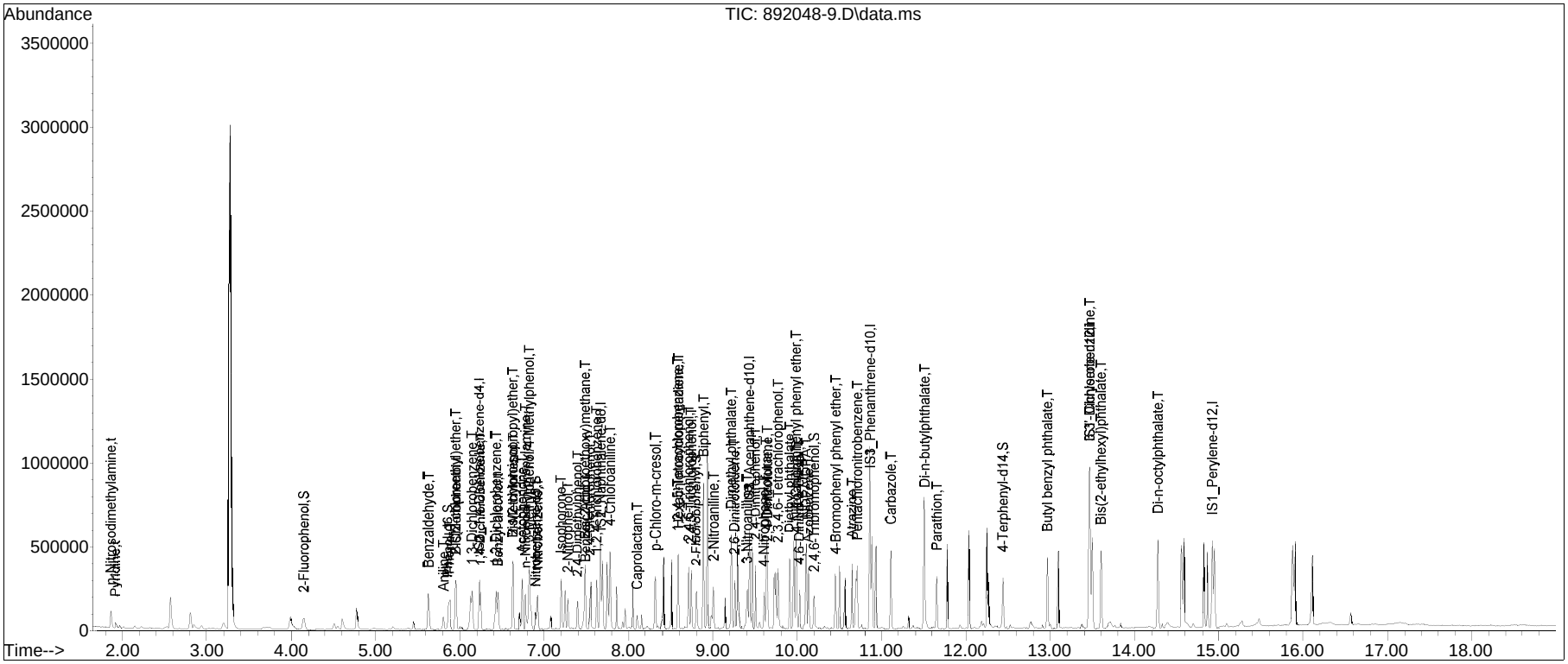
(#) = qualifier out of range (m) = manual integration (+) = signals summed

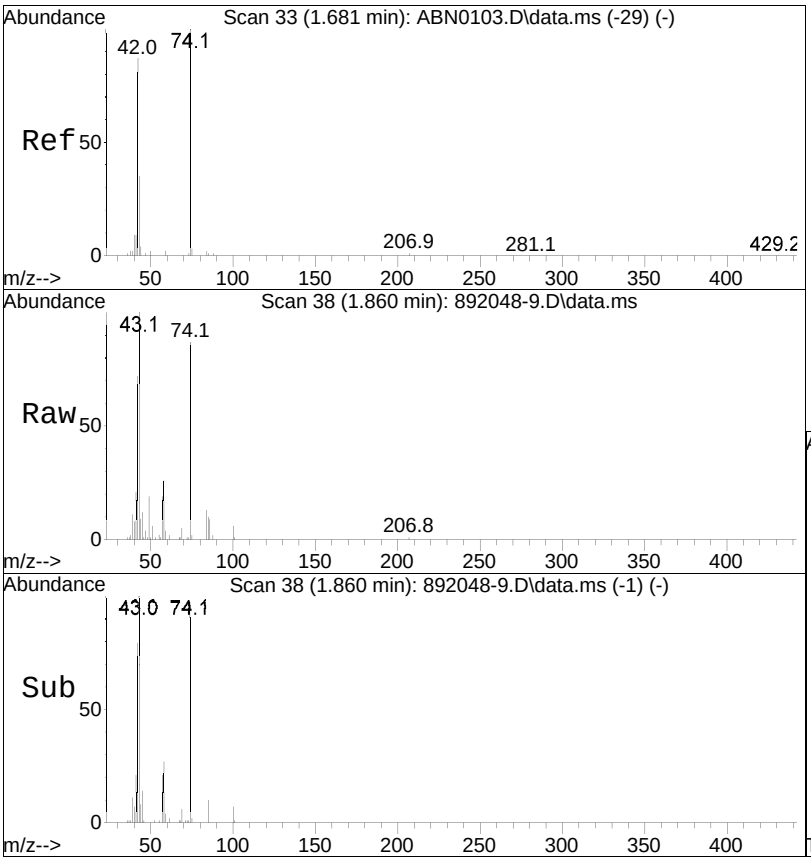
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240305nlvi\
Data File : 892048-9.D
Acq On : 6 Mar 2024 7:39 am
Operator : SV106:sz
Sample : WG1892048-9,32,,ASK
Misc : WG1891343,WG1892048,ical20337
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Mar 06 11:30:46 2024
Quant Method : I:\8270\sv106\240305nlvi\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Mar 06 08:00:58 2024
Response via : Initial Calibration

Sub List : 8270TCL_combo_REV1 - TCL/CT/MAP90305n.D•

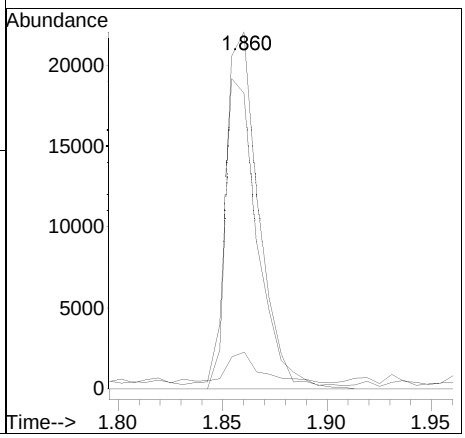


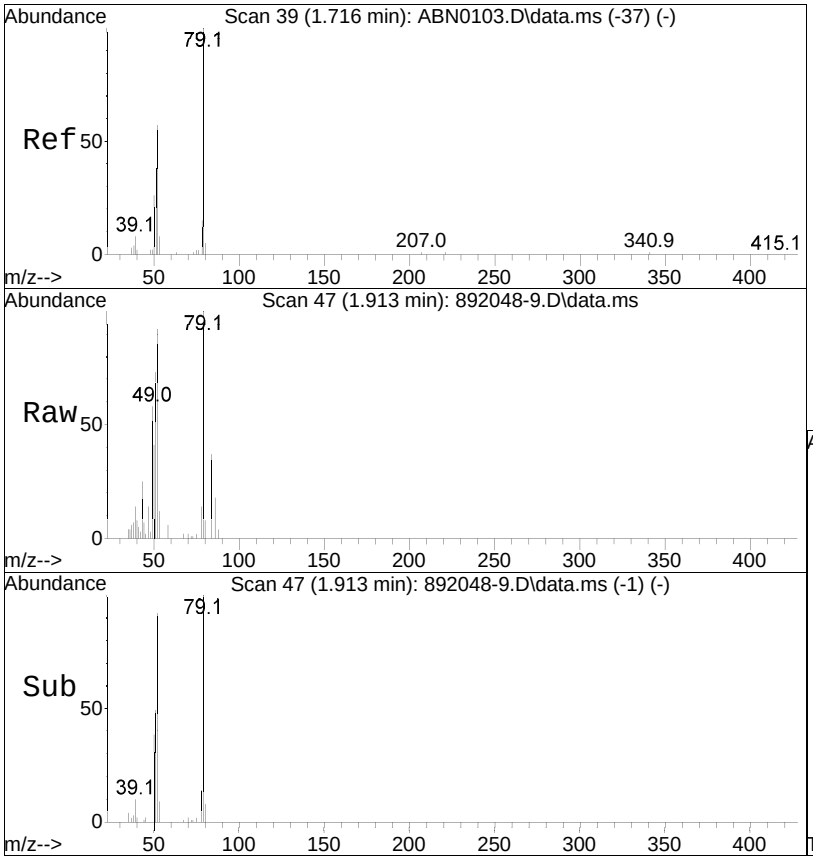


#2
n-Nitrosodimethylamine
Concen: 2.83 ug/ml
RT: 1.860 min Scan# 38
Delta R.T. 0.018 min
Lab File: 892048-9.D
Acq: 6 Mar 2024 7:39 am

Tgt Ion: 74 Resp: 23424

Ion	Ratio	Lower	Upper
74	100		
42	87.0	100.0	150.0#
44	9.0	6.7	10.1

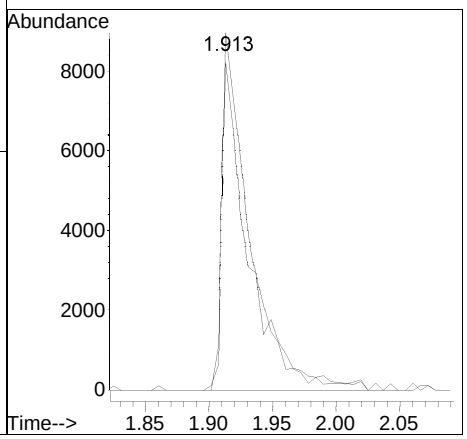


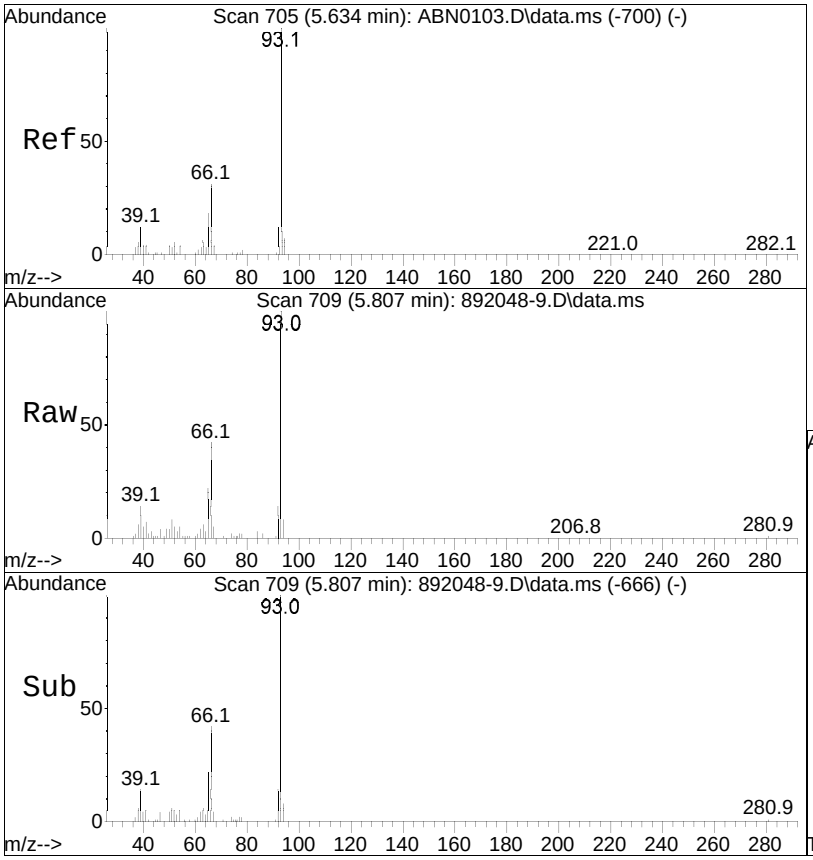


#3
Pyridine
Concen: 0.95 ug/ml
RT: 1.913 min Scan# 47
Delta R.T. 0.029 min
Lab File: 892048-9.D
Acq: 6 Mar 2024 7:39 am

Tgt Ion: 79 Resp: 13371

Ion	Ratio	Lower	Upper
79	100		
52	87.7	93.1	139.7#

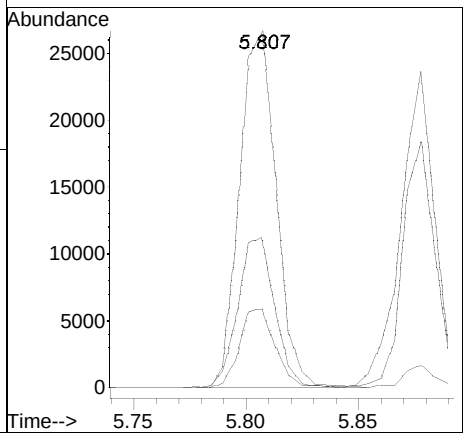


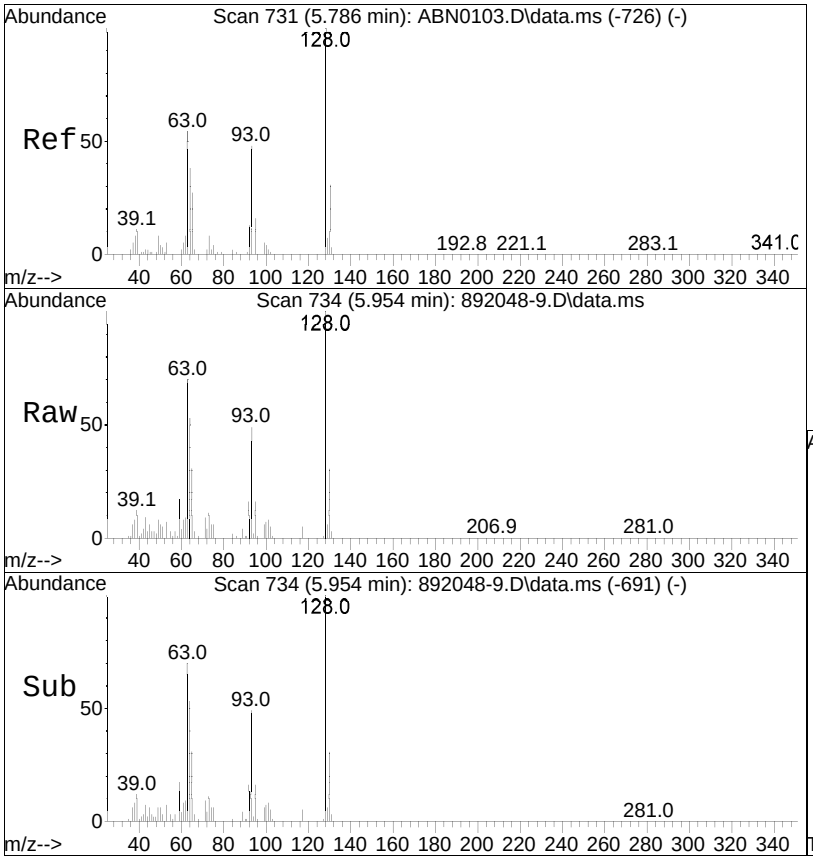


#5
Aniline
Concen: 1.31 ug/ml
RT: 5.807 min Scan# 709
Delta R.T. 0.006 min
Lab File: 892048-9.D
Acq: 6 Mar 2024 7:39 am

Tgt Ion: 93 Resp: 30270

Ion	Ratio	Lower	Upper
93	100		
66	42.4	32.6	49.0
65	21.8	17.6	26.4

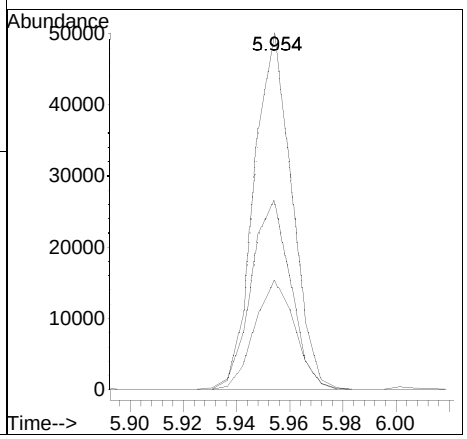


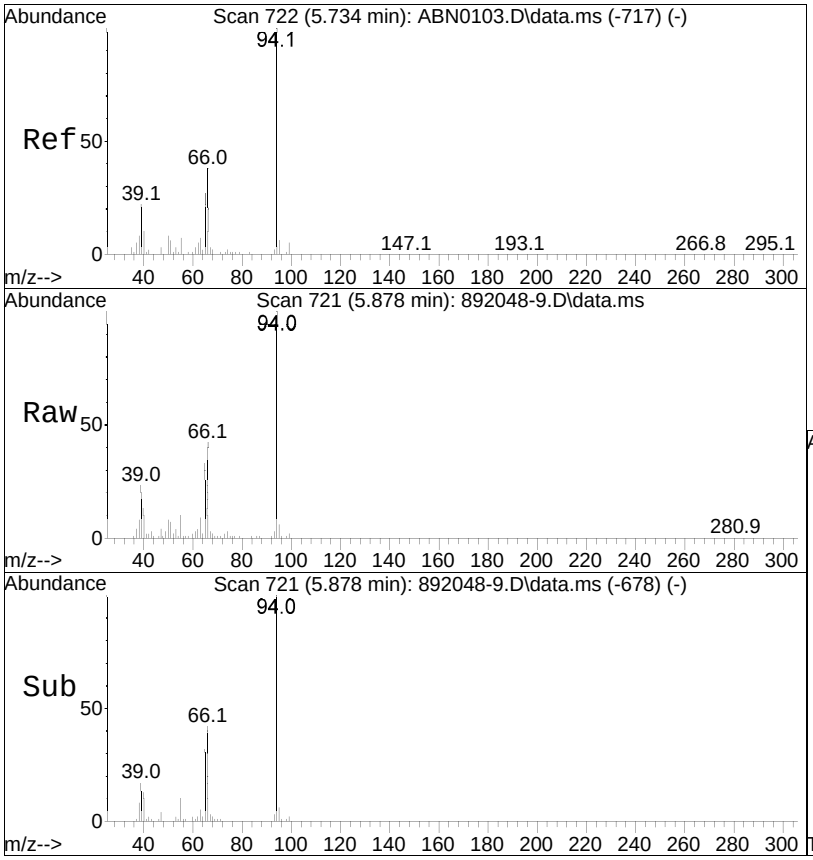


#6
2-Chlorophenol
Concen: 3.17 ug/ml
RT: 5.954 min Scan# 734
Delta R.T. 0.006 min
Lab File: 892048-9.D
Acq: 6 Mar 2024 7:39 am

Tgt Ion:128 Resp: 49419

Ion	Ratio	Lower	Upper
128	100		
64	55.8	45.1	67.7
130	32.9	26.2	39.4

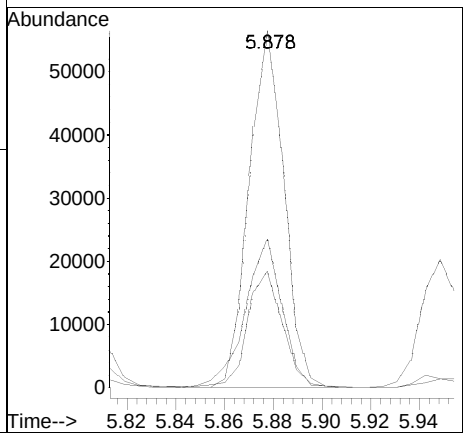


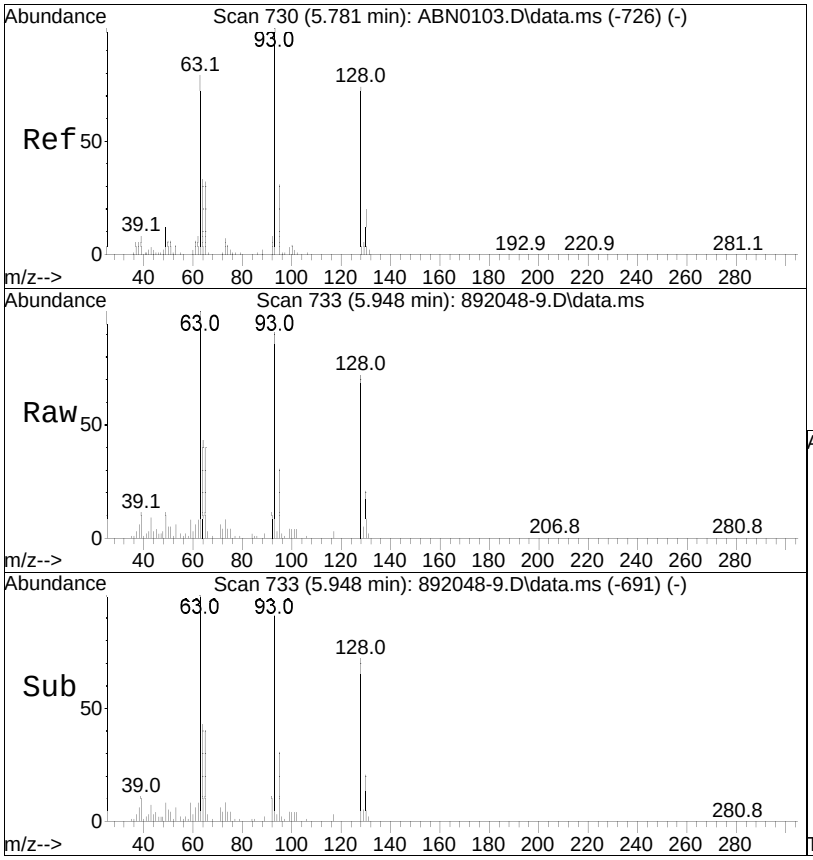


#8
Phenol
Concen: 3.01 ug/ml
RT: 5.878 min Scan# 721
Delta R.T. 0.006 min
Lab File: 892048-9.D
Acq: 6 Mar 2024 7:39 am

Tgt Ion: 94 Resp: 55931

Ion	Ratio	Lower	Upper
94	100		
65	33.2	26.0	39.0
66	44.4	33.8	50.8

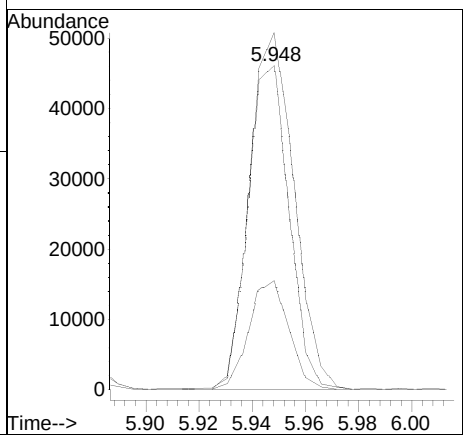


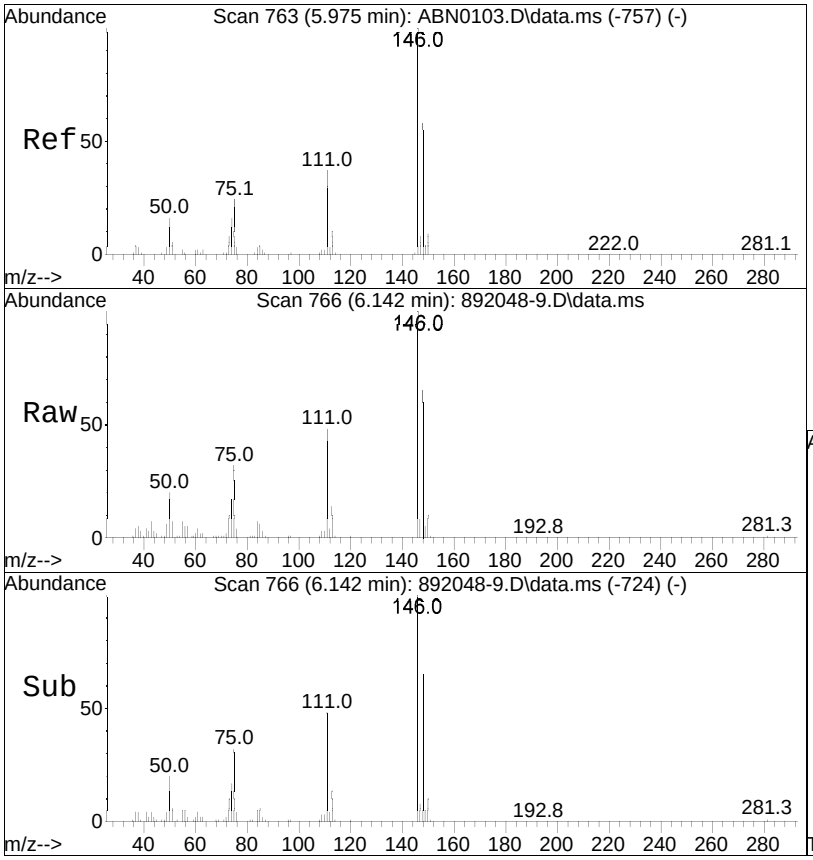


#9
Bis(2-chloroethyl)ether
Concen: 3.30 ug/ml
RT: 5.948 min Scan# 733
Delta R.T. -0.000 min
Lab File: 892048-9.D
Acq: 6 Mar 2024 7:39 am

Tgt Ion: 93 Resp: 49310

Ion	Ratio	Lower	Upper
93	100		
63	119.5	74.6	111.8#
95	32.8	25.9	38.9

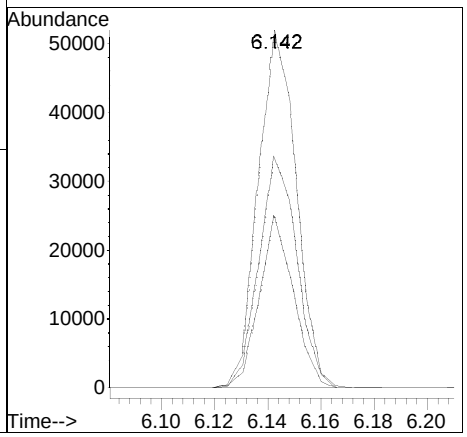


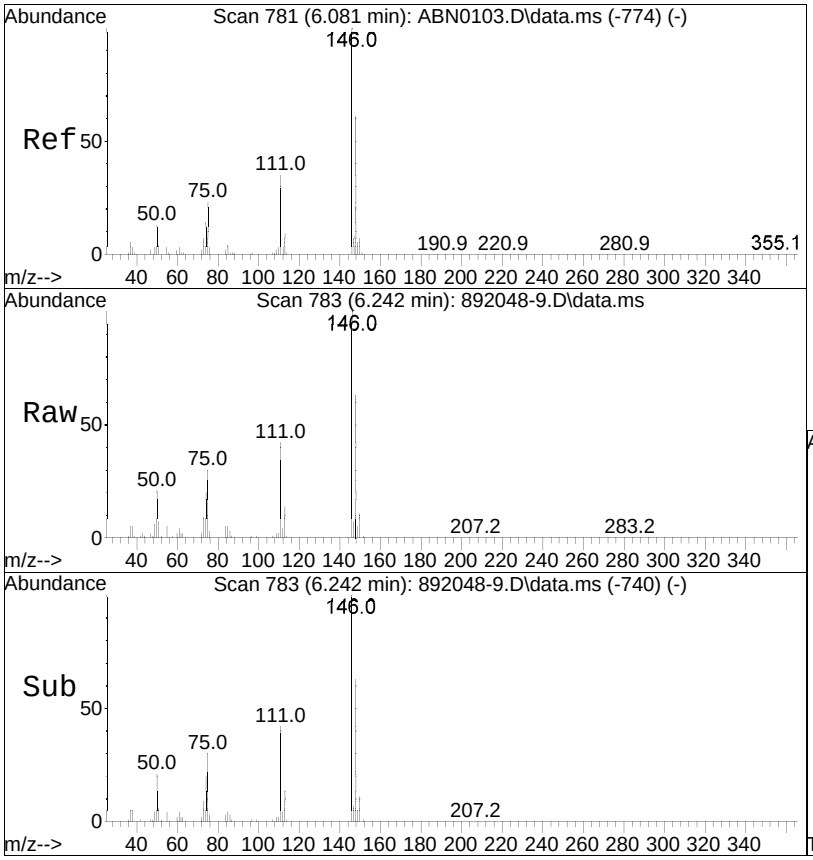


#10
1,3-Dichlorobenzene
Concen: 2.87 ug/ml
RT: 6.142 min Scan# 766
Delta R.T. -0.000 min
Lab File: 892048-9.D
Acq: 6 Mar 2024 7:39 am

Tgt Ion:146 Resp: 51201

Ion	Ratio	Lower	Upper
146	100		
111	43.6	34.3	51.5
148	64.3	50.8	76.2

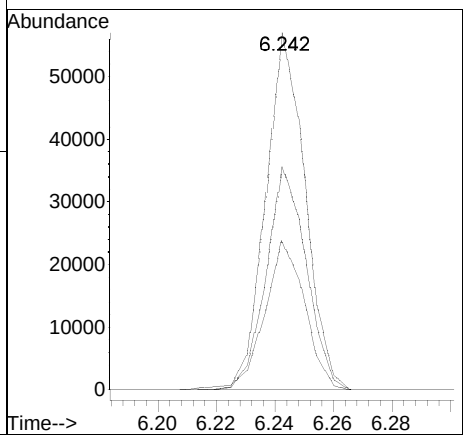


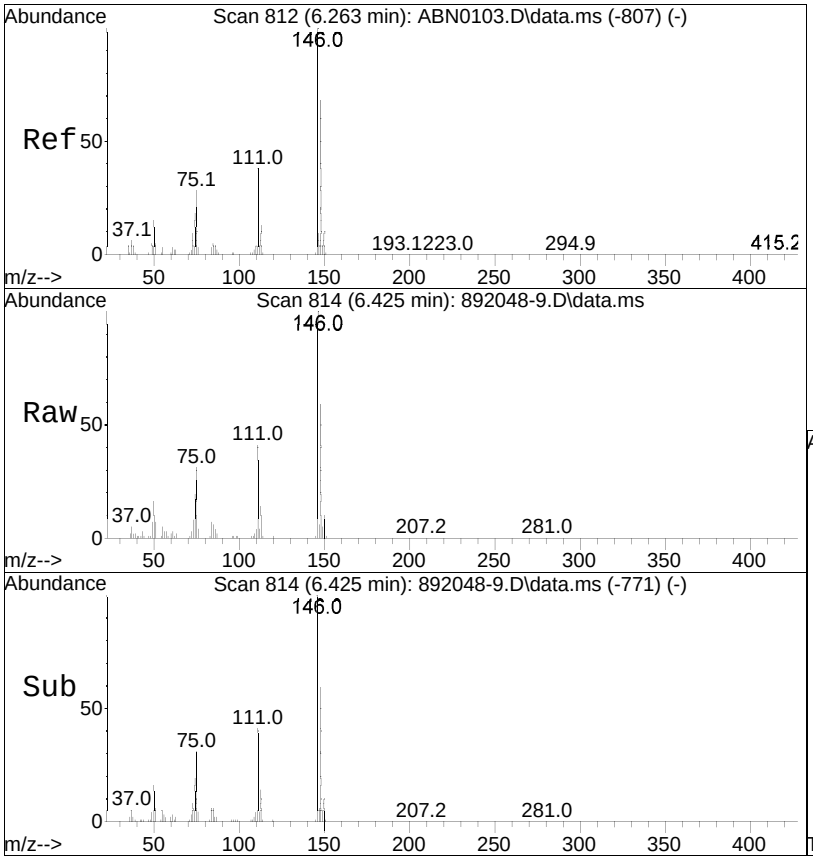


#11
1,4-Dichlorobenzene
Concen: 2.89 ug/ml
RT: 6.242 min Scan# 783
Delta R.T. 0.000 min
Lab File: 892048-9.D
Acq: 6 Mar 2024 7:39 am

Tgt Ion:146 Resp: 53044

Ion	Ratio	Lower	Upper
146	100		
148	63.8	50.7	76.1
111	43.2	33.4	50.0

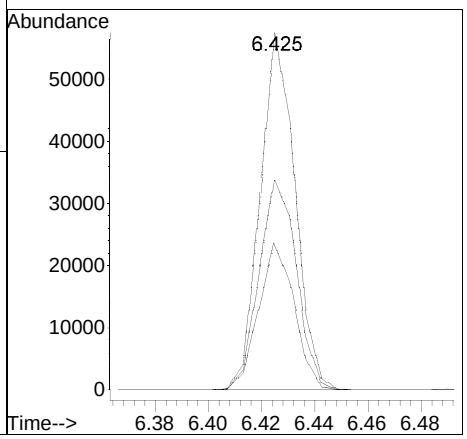


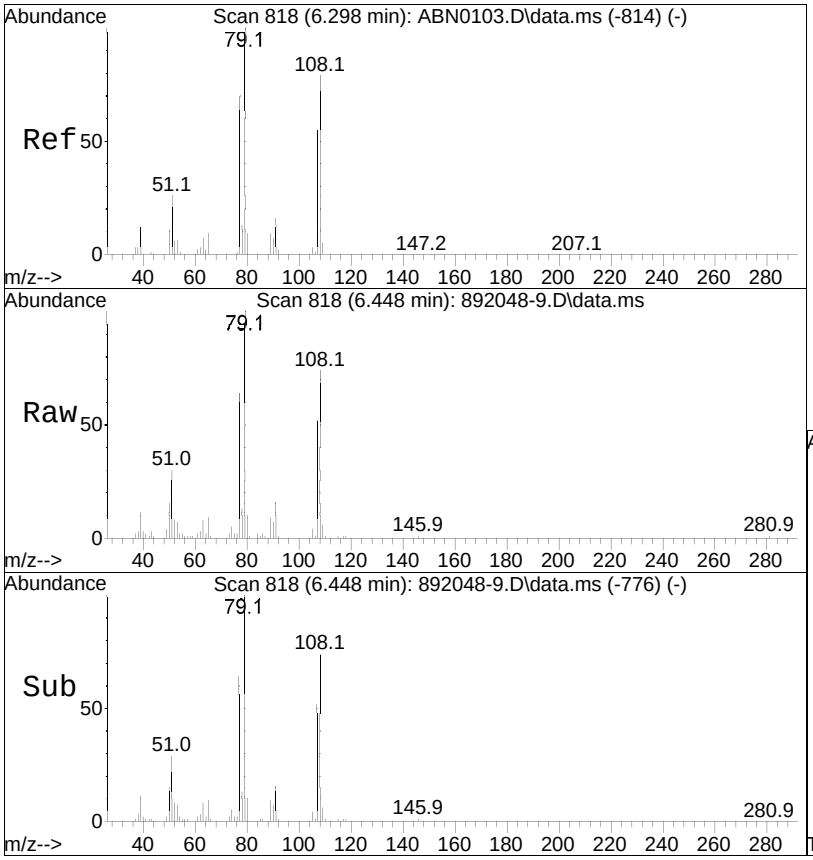


#12
1,2-Dichlorobenzene
Concen: 2.97 ug/ml
RT: 6.425 min Scan# 814
Delta R.T. -0.000 min
Lab File: 892048-9.D
Acq: 6 Mar 2024 7:39 am

Tgt Ion:146 Resp: 51916

Ion	Ratio	Lower	Upper
146	100		
111	42.5	34.6	52.0
148	63.3	50.2	75.4

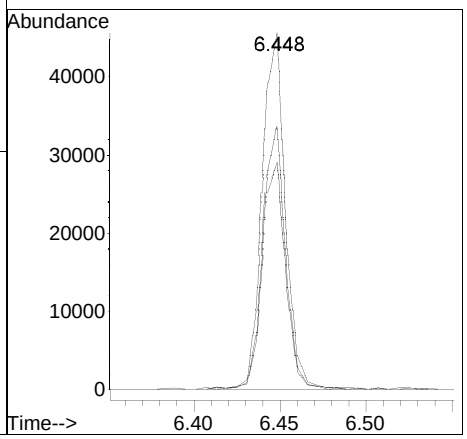


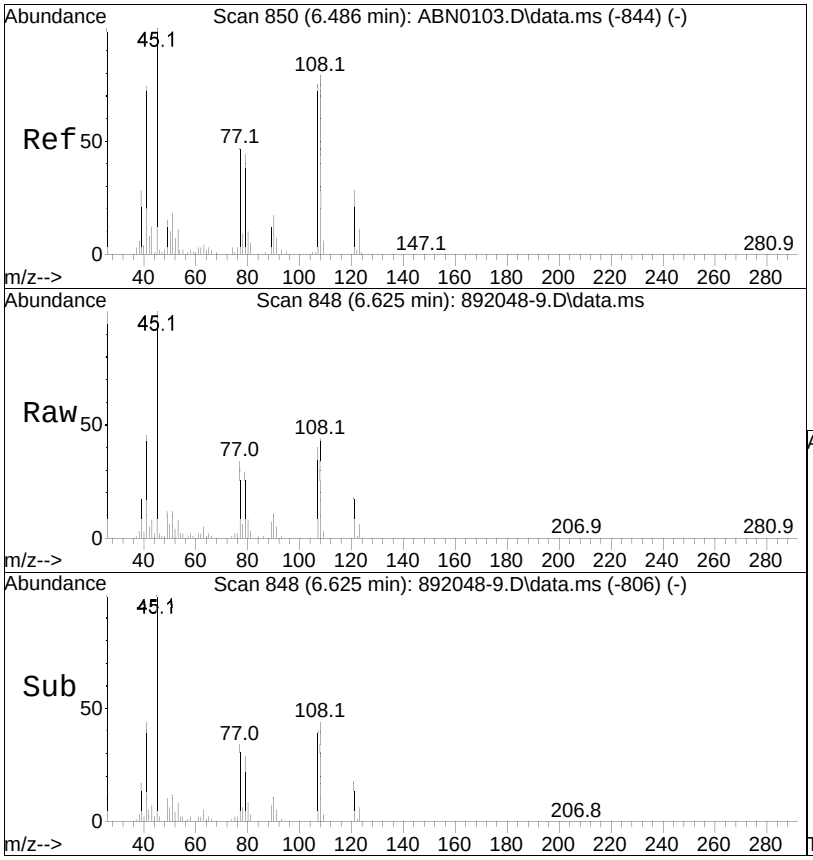


#13
Benzyl alcohol
Concen: 3.24 ug/ml
RT: 6.448 min Scan# 818
Delta R.T. -0.000 min
Lab File: 892048-9.D
Acq: 6 Mar 2024 7:39 am

Tgt Ion: 79 Resp: 42583

Ion	Ratio	Lower	Upper
79	100		
77	64.6	54.9	82.3
108	72.7	63.1	94.7

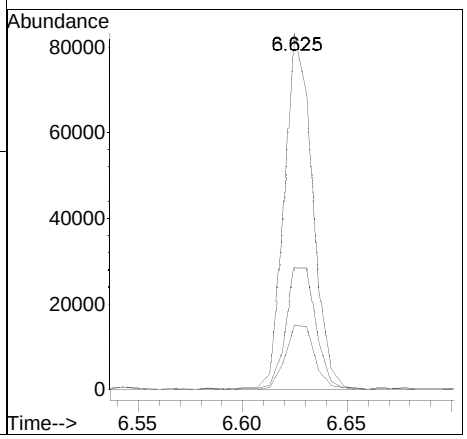


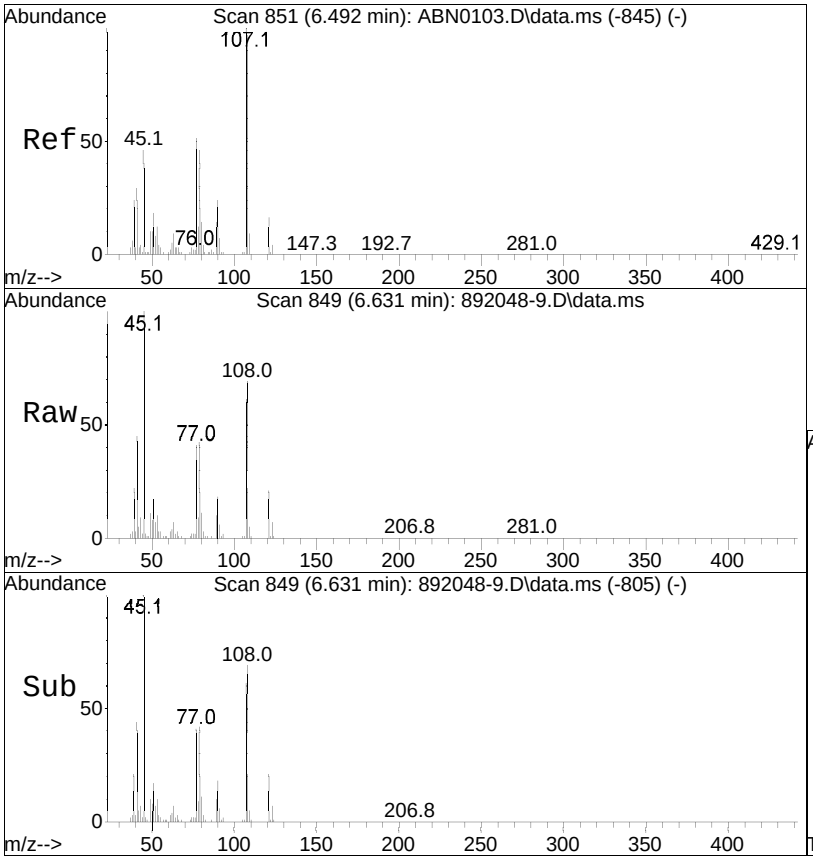


#14
Bis(2-chloroisopropyl)ether
Concen: 3.53 ug/ml
RT: 6.625 min Scan# 848
Delta R.T. -0.006 min
Lab File: 892048-9.D
Acq: 6 Mar 2024 7:39 am

Tgt Ion: 45 Resp: 77745

Ion	Ratio	Lower	Upper
45	100		
121	18.9	9.8	14.6#
77	36.7	6.1	9.1#

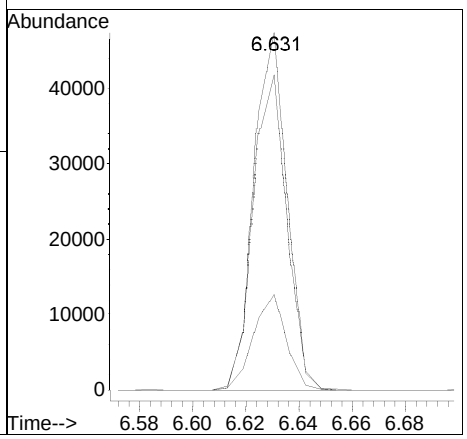


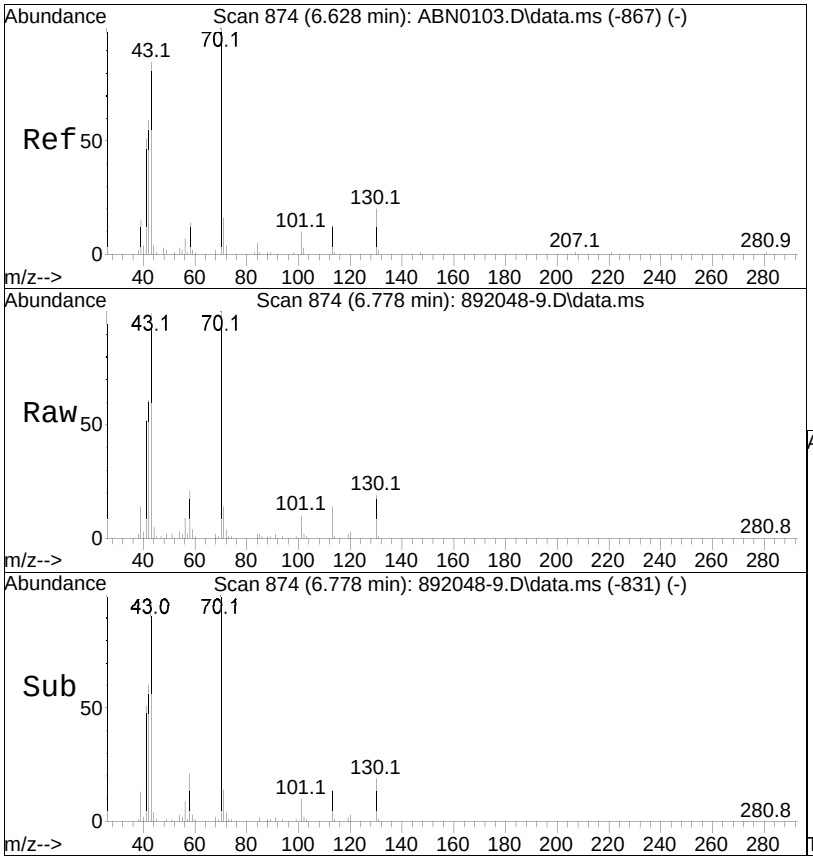


#15
2-Methylphenol
Concen: 2.94 ug/ml
RT: 6.631 min Scan# 849
Delta R.T. 0.006 min
Lab File: 892048-9.D
Acq: 6 Mar 2024 7:39 am

Tgt Ion:108 Resp: 40939

Ion	Ratio	Lower	Upper
108	100		
107	89.5	70.7	106.1
90	26.7	18.7	28.1

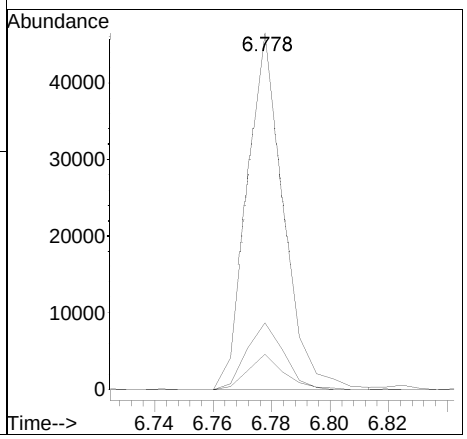


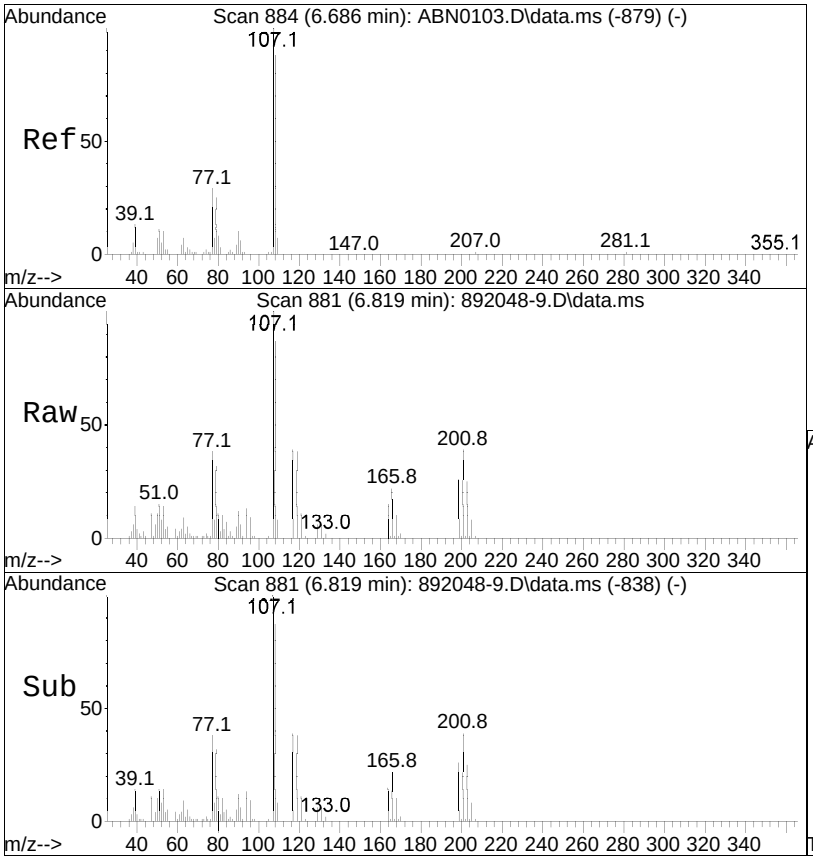


#17
n-Nitrosodi-n-propylamine
Concen: 3.56 ug/ml
RT: 6.778 min Scan# 874
Delta R.T. -0.000 min
Lab File: 892048-9.D
Acq: 6 Mar 2024 7:39 am

Tgt Ion: 70 Resp: 40239

Ion	Ratio	Lower	Upper
70	100		
130	18.9	18.2	27.4
101	9.9	7.8	11.8

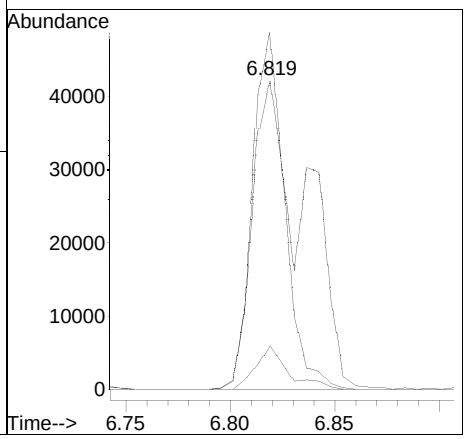


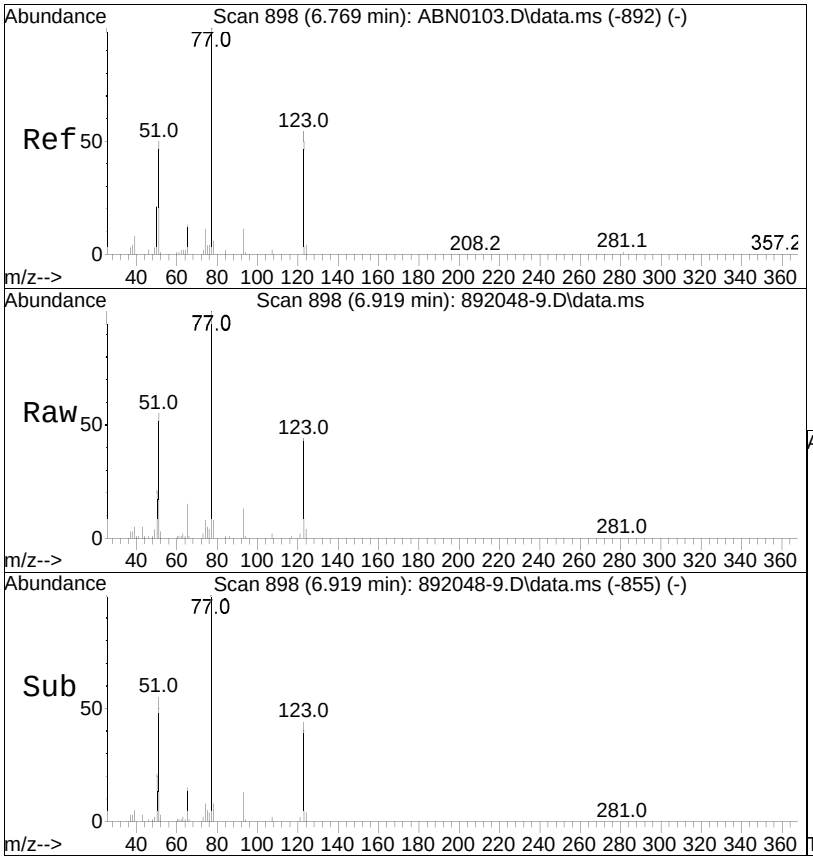


#18
3-Methylphenol/4-Methylphenol
Concen: 3.29 ug/ml
RT: 6.819 min Scan# 881
Delta R.T. 0.000 min
Lab File: 892048-9.D
Acq: 6 Mar 2024 7:39 am

Tgt Ion:108 Resp: 48047

Ion	Ratio	Lower	Upper
108	100		
107	108.8	88.6	132.8
90	13.3	8.8	13.2#

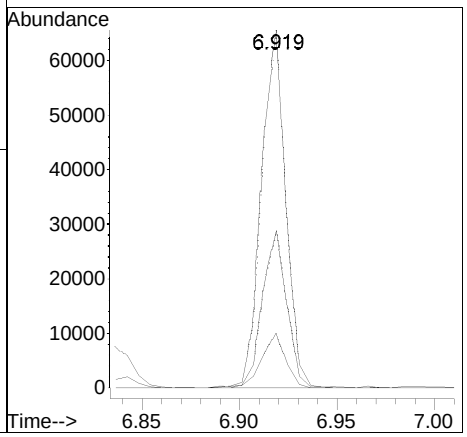


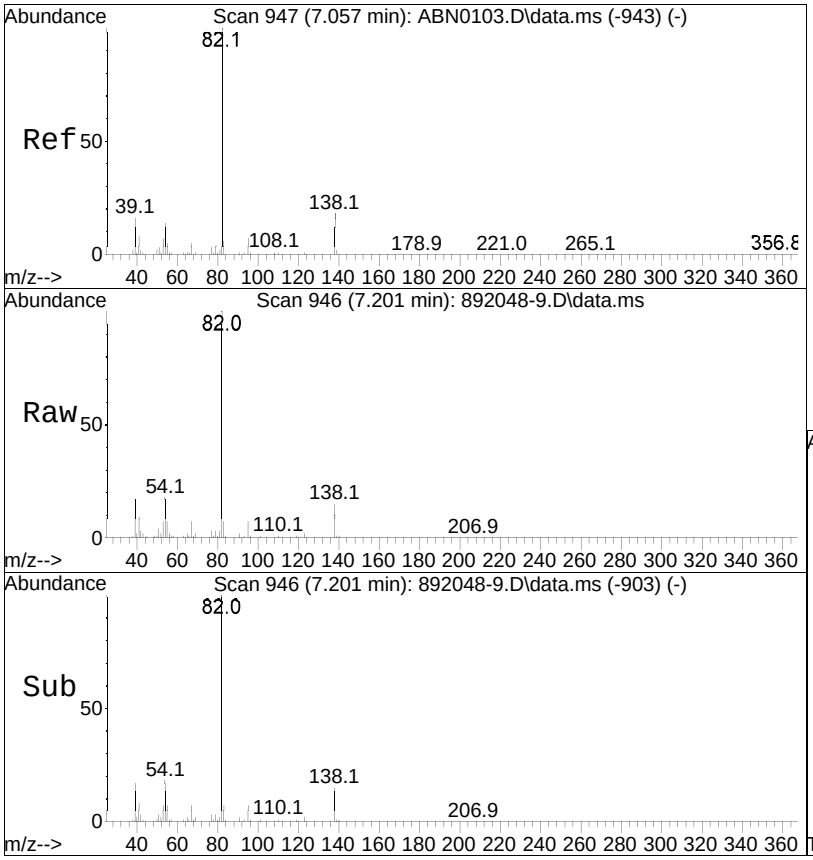


#20
Nitrobenzene
Concen: 3.53 ug/ml
RT: 6.919 min Scan# 898
Delta R.T. -0.000 min
Lab File: 892048-9.D
Acq: 6 Mar 2024 7:39 am

Tgt Ion: 77 Resp: 55960

Ion	Ratio	Lower	Upper
77	100		
123	44.1	36.3	54.5
65	15.5	11.6	17.4

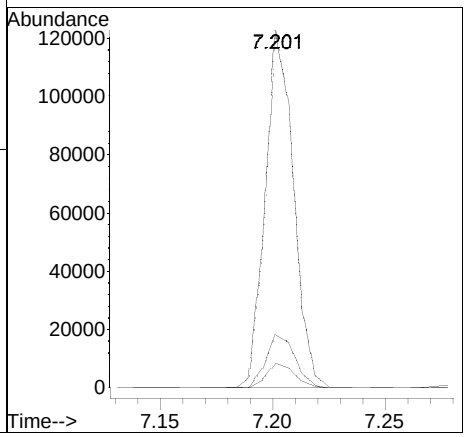


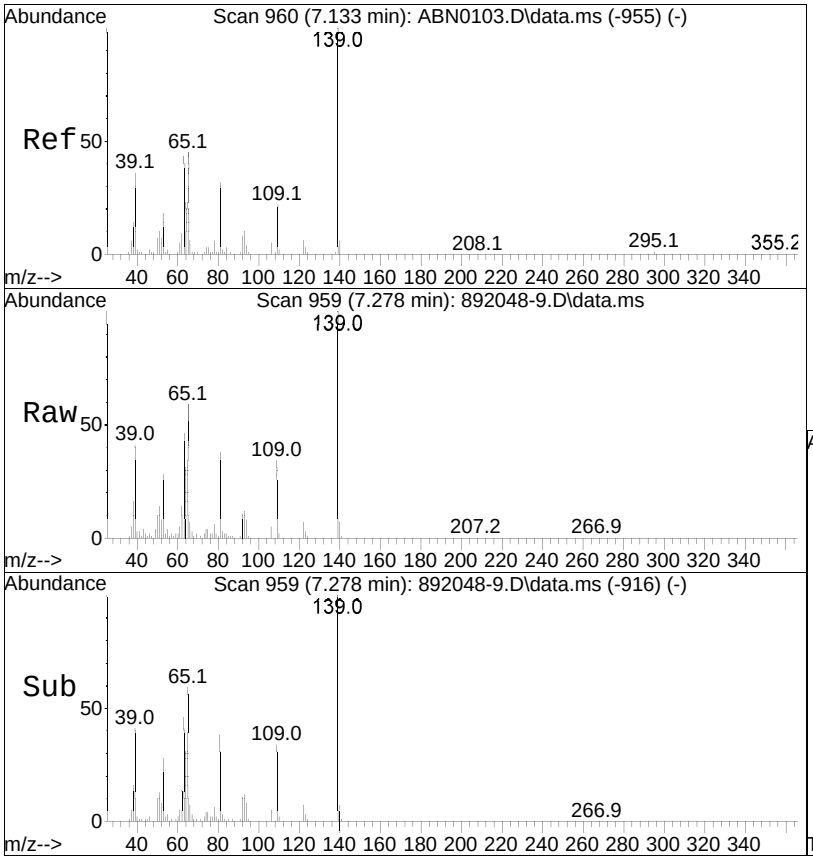


#21
Isophorone
Concen: 3.48 ug/ml
RT: 7.201 min Scan# 946
Delta R.T. -0.000 min
Lab File: 892048-9.D
Acq: 6 Mar 2024 7:39 am

Tgt Ion: 82 Resp: 105581

Ion	Ratio	Lower	Upper
82	100		
138	15.4	14.7	22.1
95	7.0	5.2	7.8

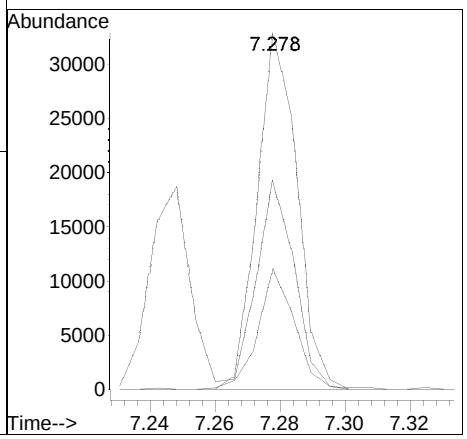


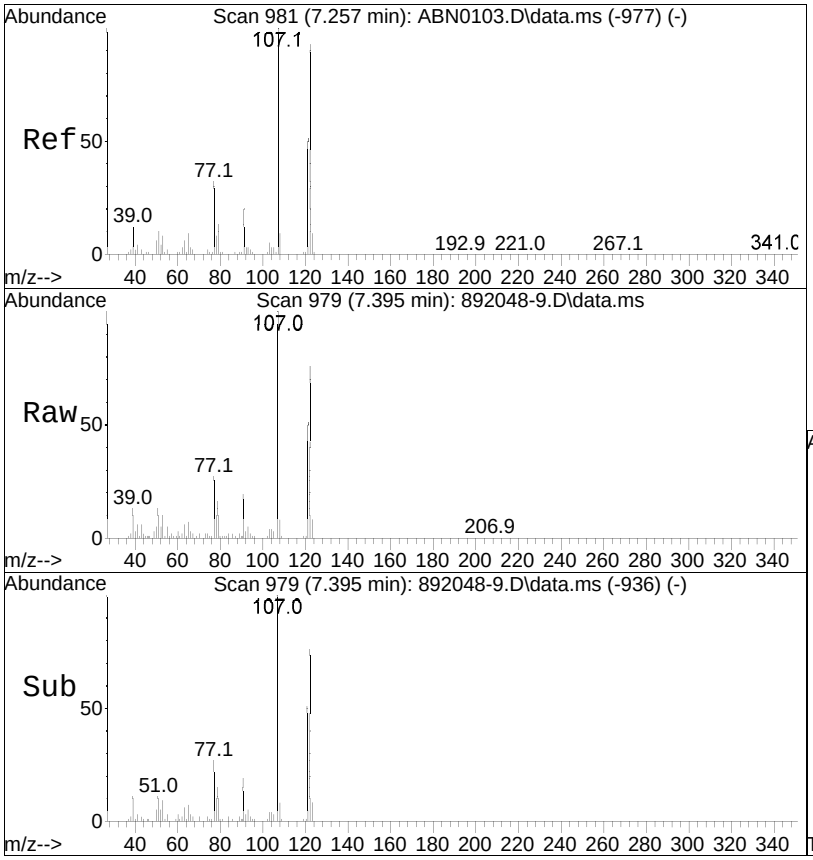


#22
2-Nitrophenol
Concen: 4.41 ug/ml
RT: 7.278 min Scan# 959
Delta R.T. -0.000 min
Lab File: 892048-9.D
Acq: 6 Mar 2024 7:39 am

Tgt Ion:139 Resp: 27951

Ion	Ratio	Lower	Upper
139	100		
109	31.2	19.4	29.0#
65	56.6	46.1	69.1

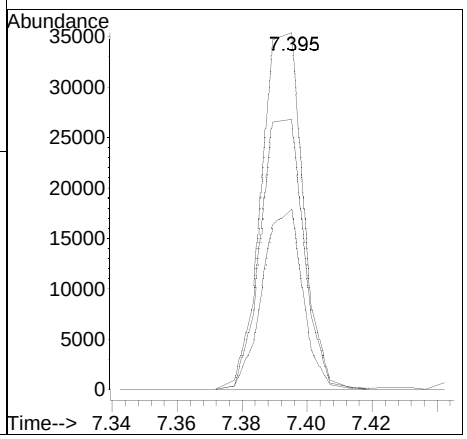


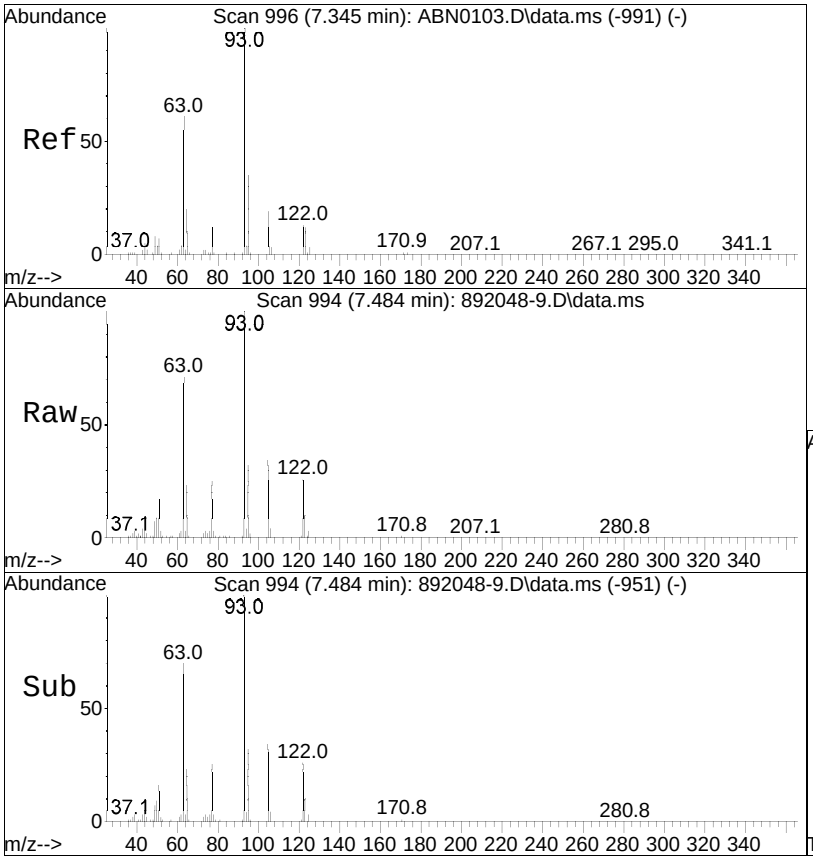


#23
2,4-Dimethylphenol
Concen: 2.01 ug/ml
RT: 7.395 min Scan# 979
Delta R.T. 0.006 min
Lab File: 892048-9.D
Acq: 6 Mar 2024 7:39 am

Tgt Ion:107 Resp: 31465

Ion	Ratio	Lower	Upper
107	100		
121	49.1	40.0	60.0
122	77.9	70.2	105.4

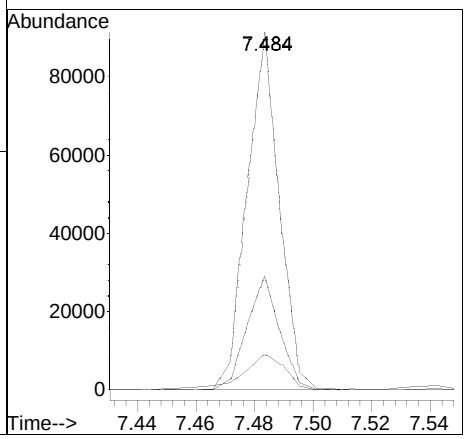


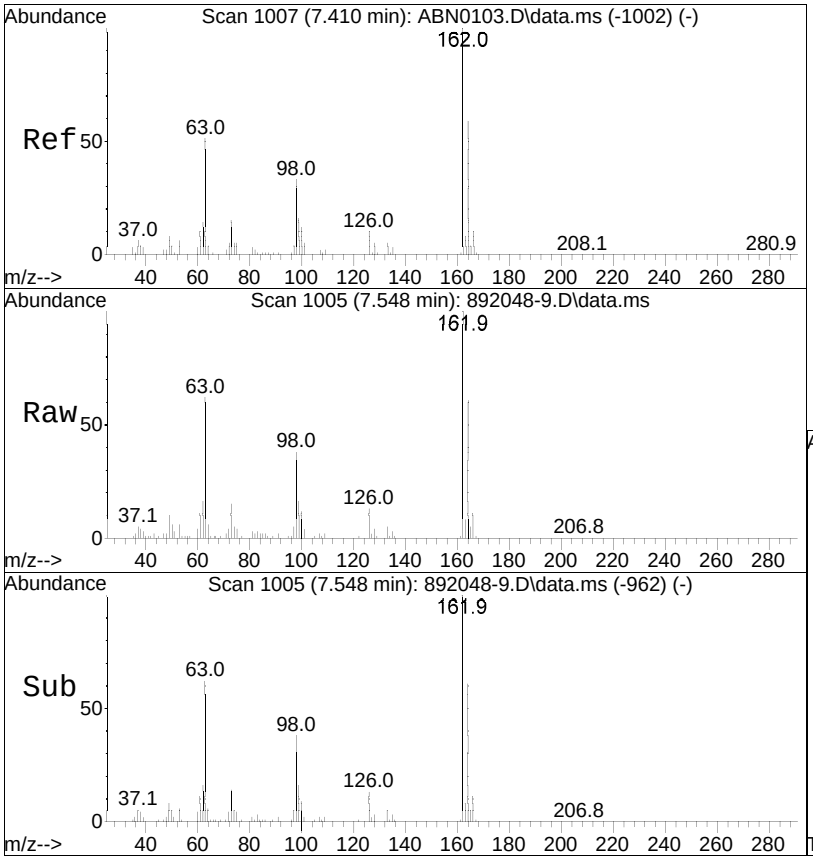


#24
Bis(2-chloroethoxy)methane
Concen: 3.63 ug/ml
RT: 7.484 min Scan# 994
Delta R.T. -0.000 min
Lab File: 892048-9.D
Acq: 6 Mar 2024 7:39 am

Tgt Ion: 93 Resp: 69001

Ion	Ratio	Lower	Upper
93	100		
95	32.6	25.8	38.8
123	13.4	10.1	15.1

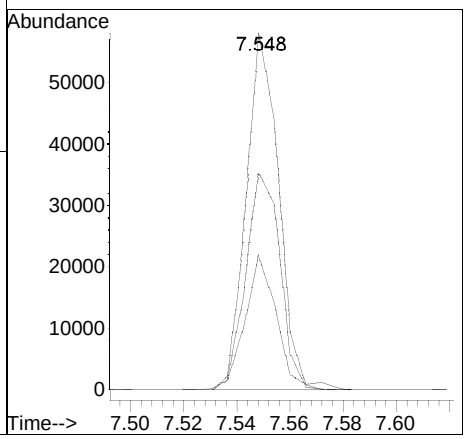


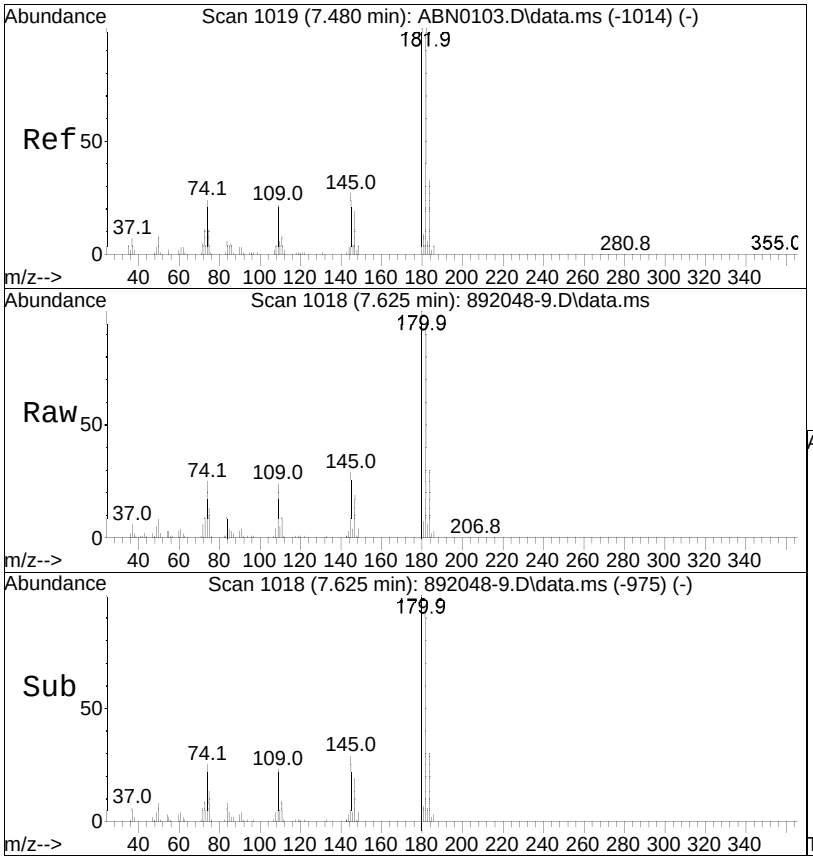


#25
2,4-Dichlorophenol
Concen: 3.72 ug/ml
RT: 7.548 min Scan# 1005
Delta R.T. -0.000 min
Lab File: 892048-9.D
Acq: 6 Mar 2024 7:39 am

Tgt Ion:162 Resp: 48874

Ion	Ratio	Lower	Upper
162	100		
164	64.5	51.0	76.4
98	37.8	32.2	48.2

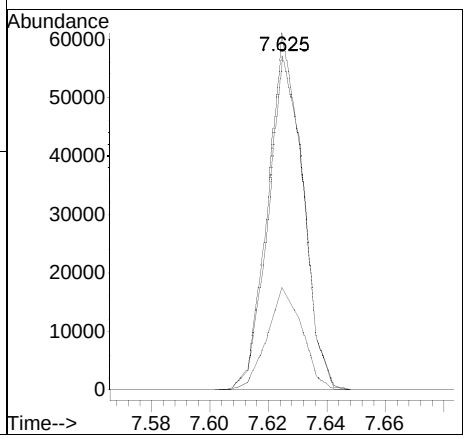


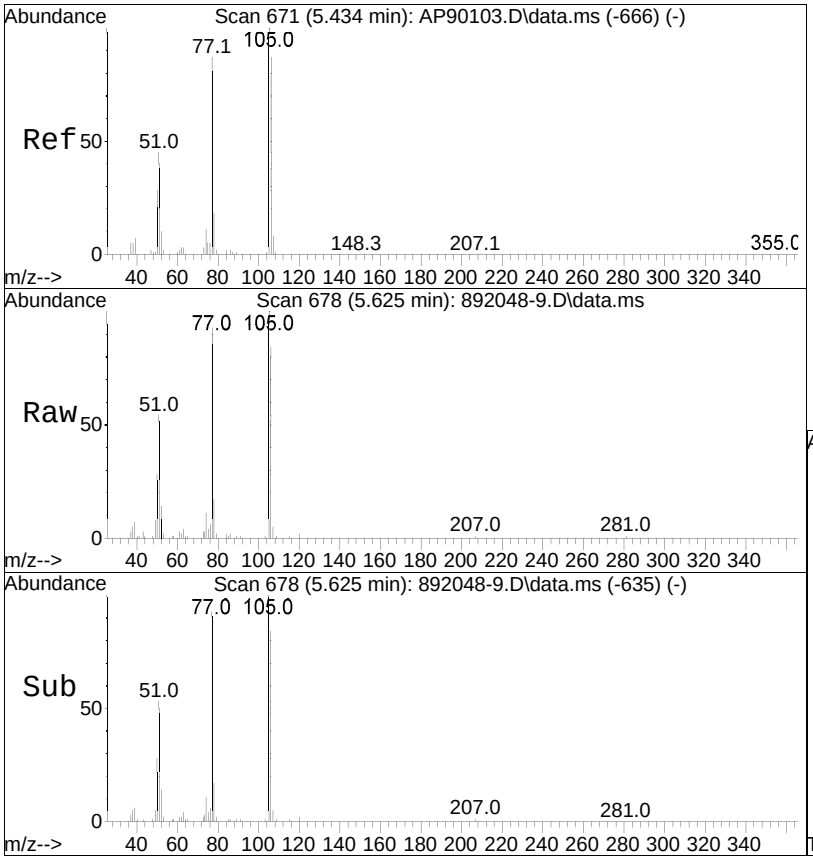


#26
1,2,4-Trichlorobenzene
Concen: 3.32 ug/ml
RT: 7.625 min Scan# 1018
Delta R.T. -0.000 min
Lab File: 892048-9.D
Acq: 6 Mar 2024 7:39 am

Tgt Ion:180 Resp: 50188

Ion	Ratio	Lower	Upper
180	100		
182	95.4	76.0	114.0
145	29.0	25.7	38.5

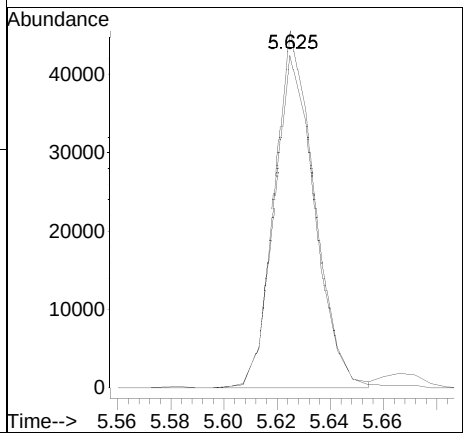


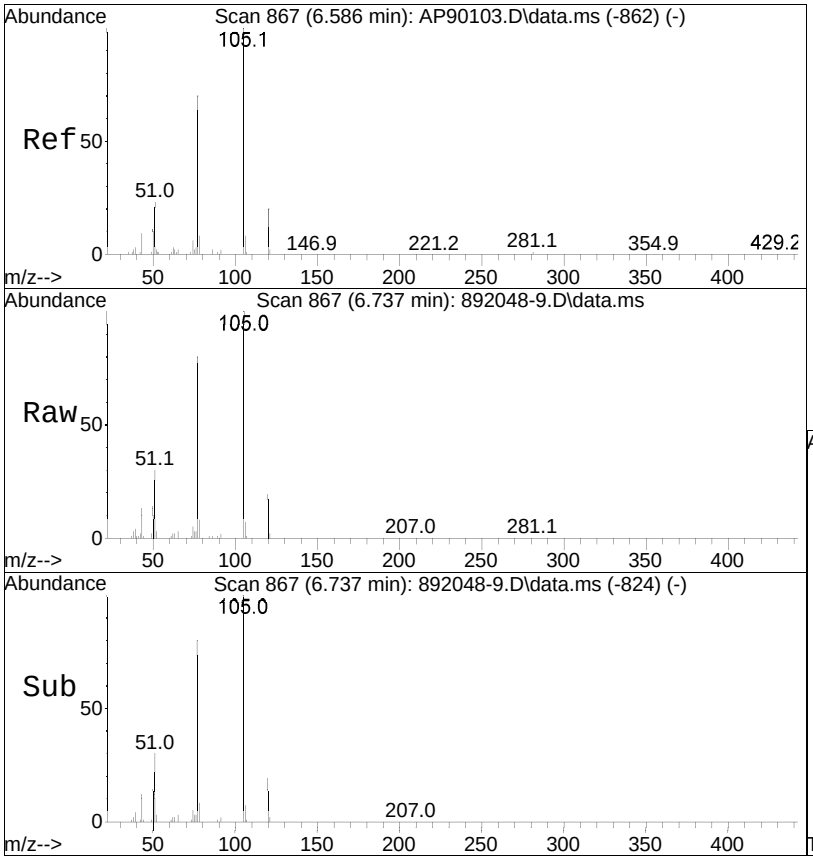


#28
Benzaldehyde
Concen: 4.19 ug/ml
RT: 5.625 min Scan# 678
Delta R.T. -0.000 min
Lab File: 892048-9.D
Acq: 6 Mar 2024 7:39 am

Tgt Ion:105 Resp: 47540

Ion	Ratio	Lower	Upper
105	100		
77	94.7	82.2	123.4

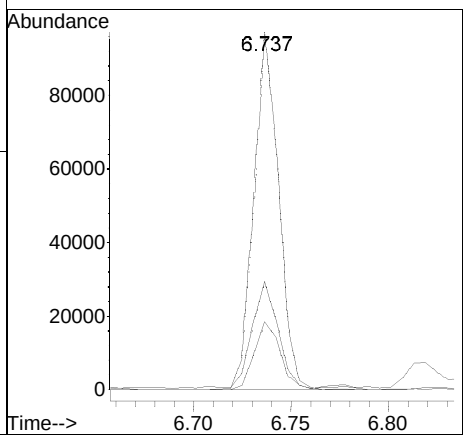


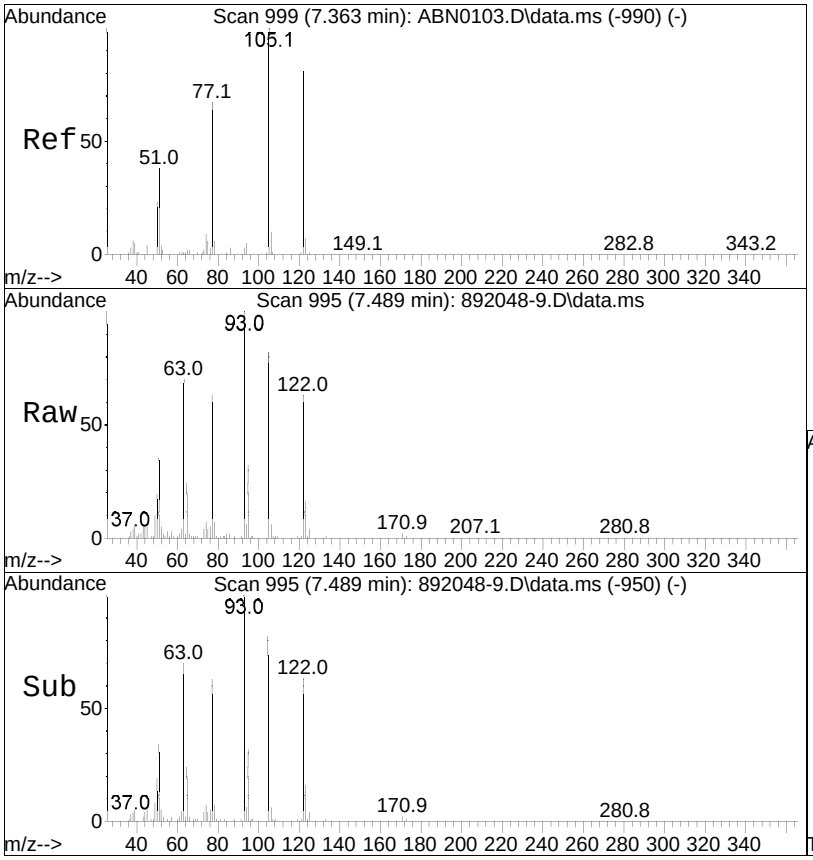


#29
Acetophenone
Concen: 3.47 ug/ml
RT: 6.737 min Scan# 867
Delta R.T. 0.000 min
Lab File: 892048-9.D
Acq: 6 Mar 2024 7:39 am

Tgt Ion:105 Resp: 84742

Ion	Ratio	Lower	Upper
105	100		
120	20.0	20.5	30.7#
51	31.8	34.9	52.3#

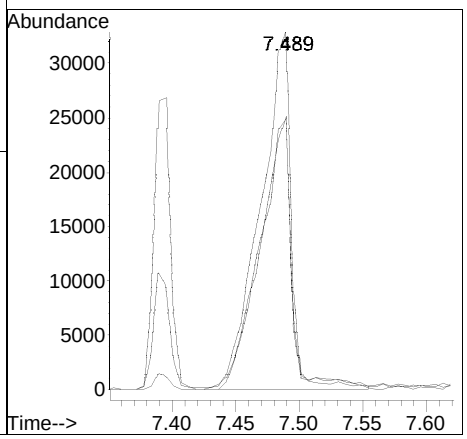


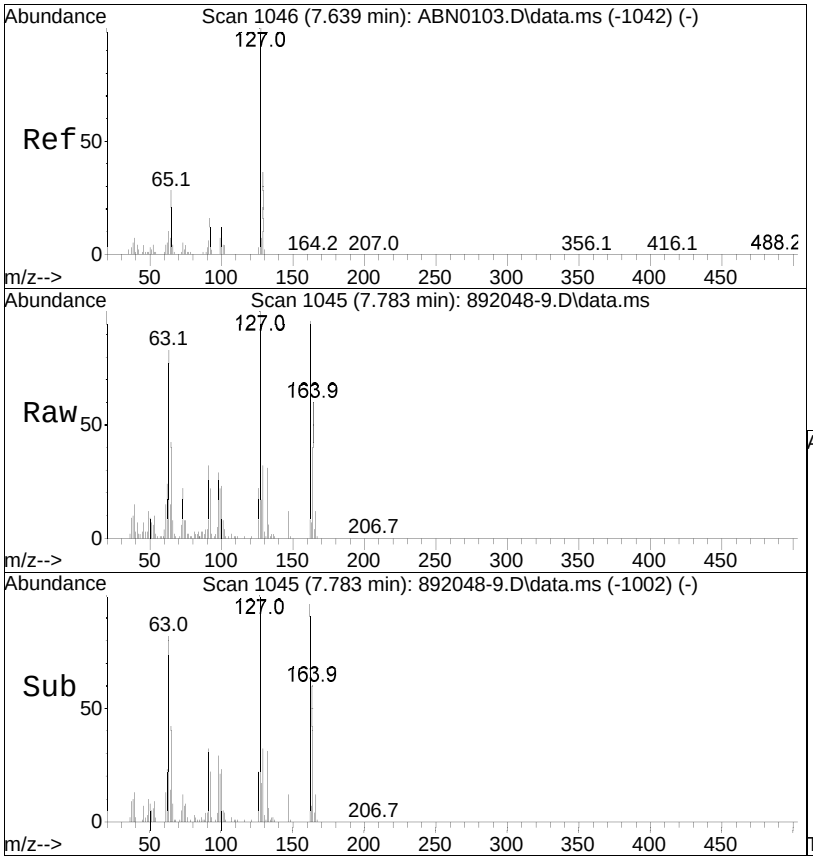


#36
Benzoic Acid
Concen: 6.13 ug/ml
RT: 7.489 min Scan# 995
Delta R.T. 0.012 min
Lab File: 892048-9.D
Acq: 6 Mar 2024 7:39 am

Tgt Ion:105 Resp: 55940

Ion	Ratio	Lower	Upper
105	100		
122	75.0	59.9	89.9
77	76.5	60.1	90.1

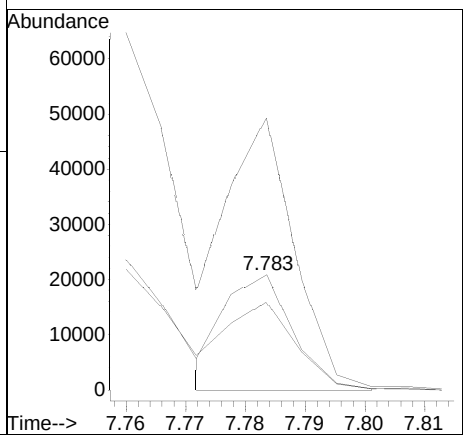


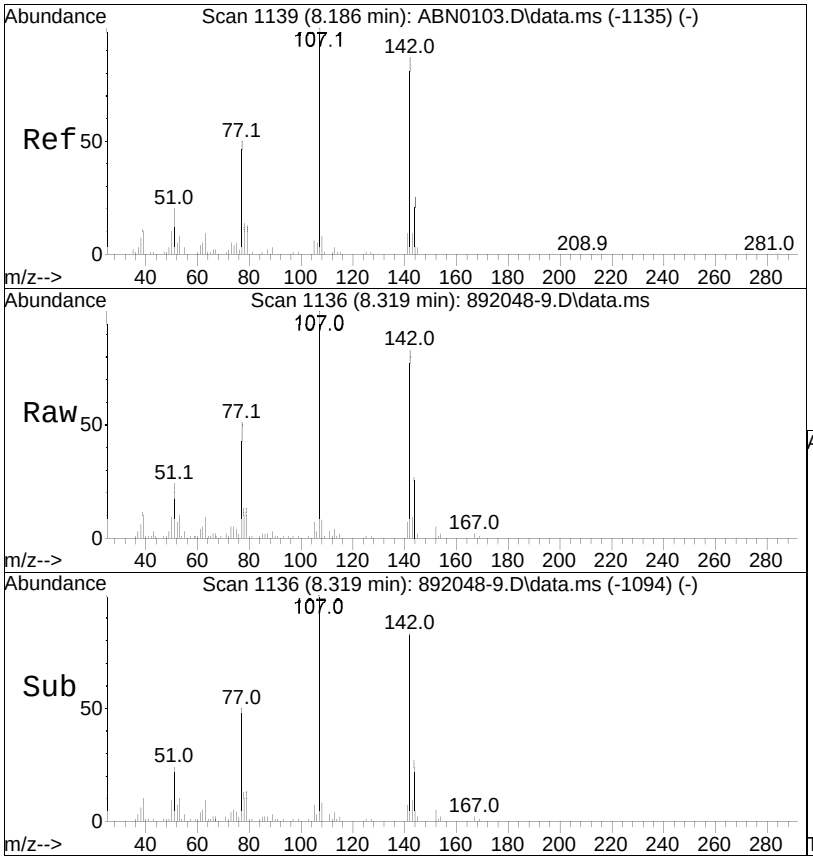


#37
4-Chloroaniline
Concen: 2.78 ug/ml M3
RT: 7.783 min Scan# 1045
Delta R.T. -0.000 min
Lab File: 892048-9.D
Acq: 6 Mar 2024 7:39 am

Tgt Ion: 65 Resp: 16543

Ion	Ratio	Lower	Upper
65	100		
127	331.5	237.6	356.4
129	110.6	76.3	114.5

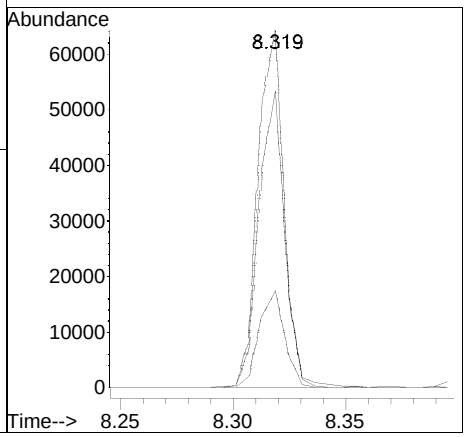


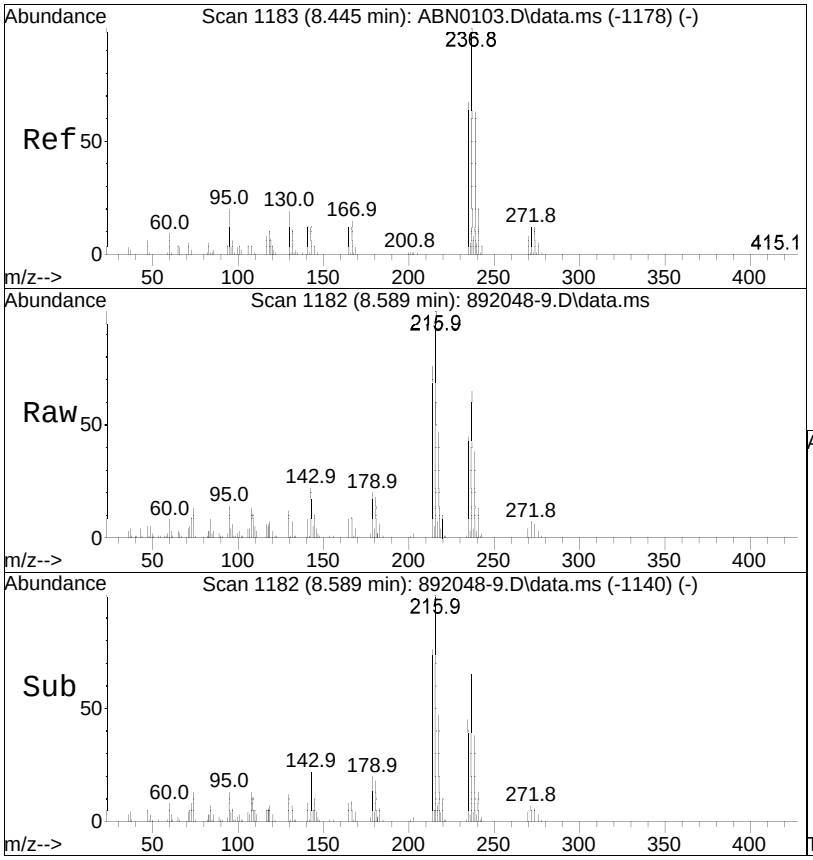


#39
p-Chloro-m-cresol
Concen: 3.90 ug/ml
RT: 8.319 min Scan# 1136
Delta R.T. -0.000 min
Lab File: 892048-9.D
Acq: 6 Mar 2024 7:39 am

Tgt Ion:107 Resp: 51148

Ion	Ratio	Lower	Upper
107	100		
144	26.7	20.9	31.3
142	81.1	66.1	99.1

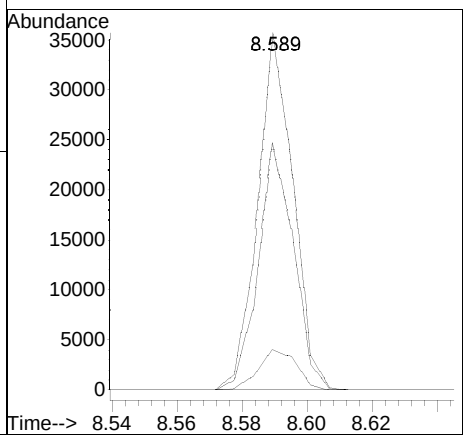


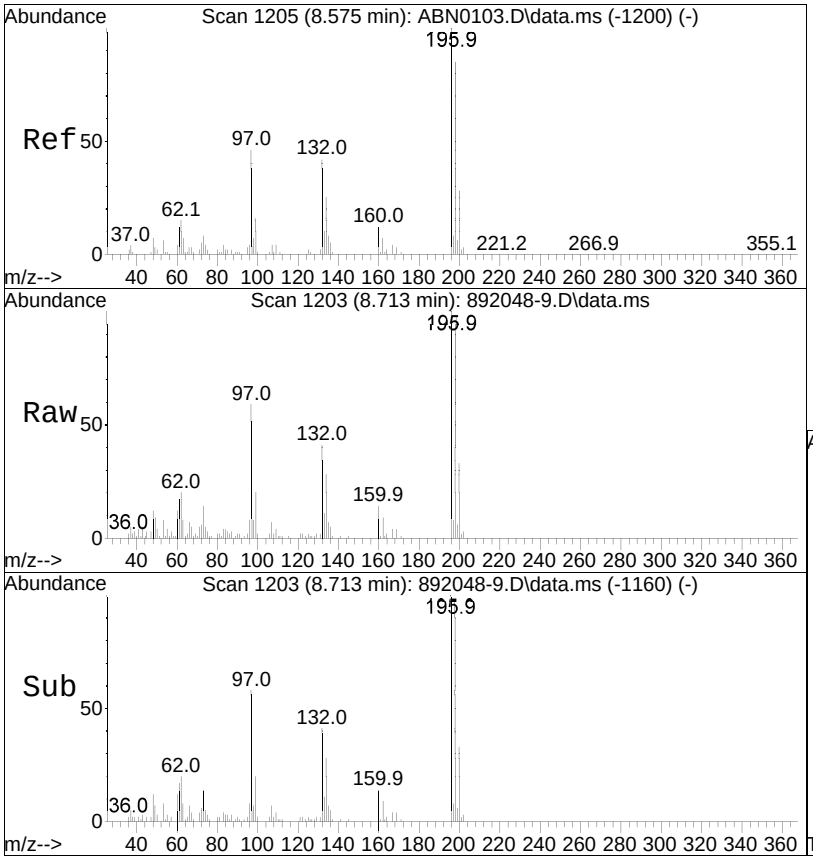


#42
Hexachlorocyclopentadiene
Concen: 2.72 ug/ml
RT: 8.589 min Scan# 1182
Delta R.T. -0.000 min
Lab File: 892048-9.D
Acq: 6 Mar 2024 7:39 am

Tgt Ion:237 Resp: 26844

Ion	Ratio	Lower	Upper
237	100		
235	69.1	49.7	74.5
272	12.4	9.8	14.6

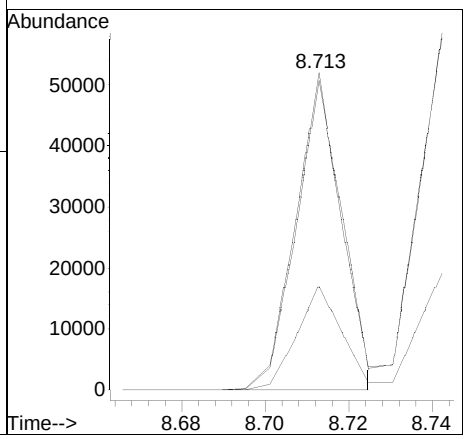


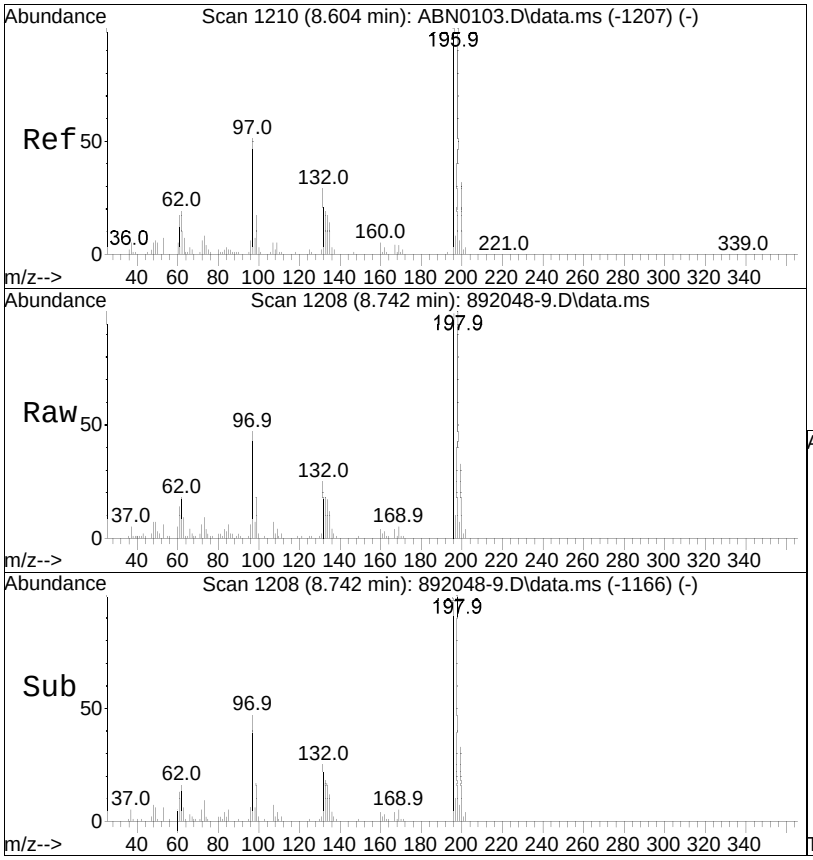


#43
2,4,6-Trichlorophenol
Concen: 4.20 ug/ml
RT: 8.713 min Scan# 1203
Delta R.T. -0.000 min
Lab File: 892048-9.D
Acq: 6 Mar 2024 7:39 am

Tgt Ion:196 Resp: 39413

Ion	Ratio	Lower	Upper
196	100		
198	98.6	77.5	116.3
200	32.5	23.8	35.6

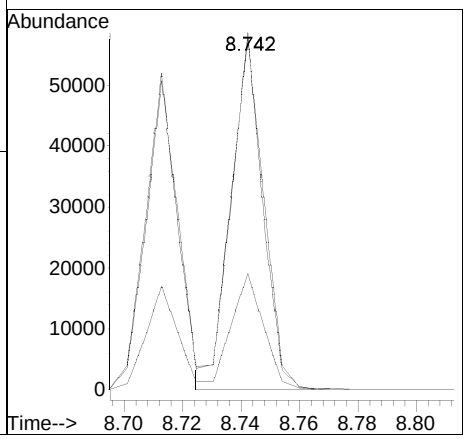


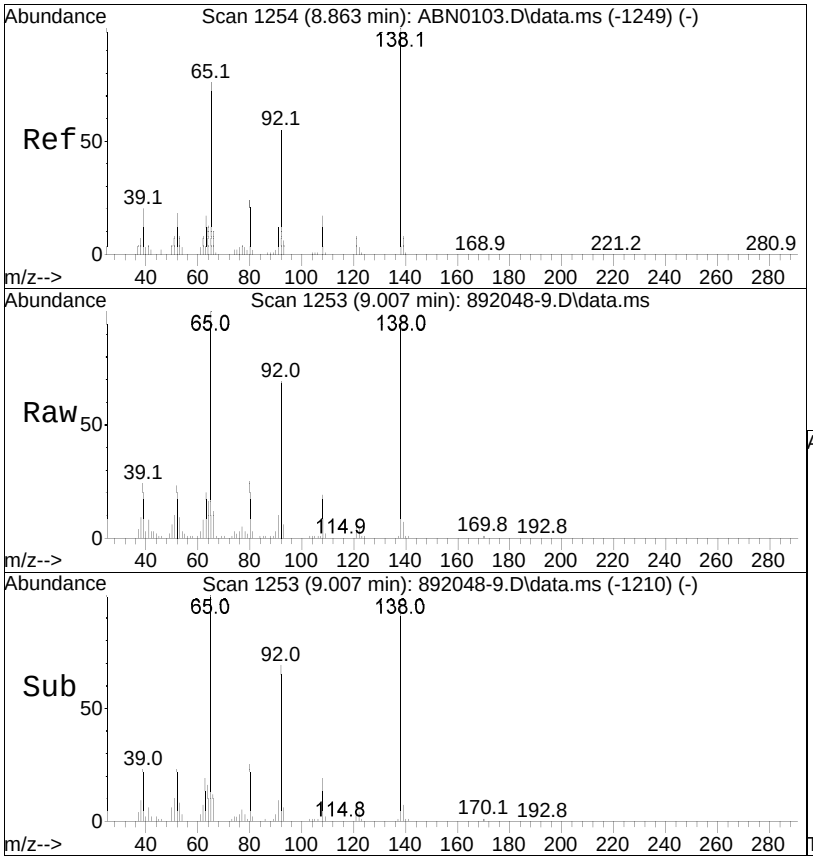


#44
2,4,5-Trichlorophenol
Concen: 4.42 ug/ml
RT: 8.742 min Scan# 1208
Delta R.T. -0.000 min
Lab File: 892048-9.D
Acq: 6 Mar 2024 7:39 am

Tgt Ion:196 Resp: 44699

Ion	Ratio	Lower	Upper
196	100		
200	33.0	25.4	38.0
198	96.8	78.0	117.0

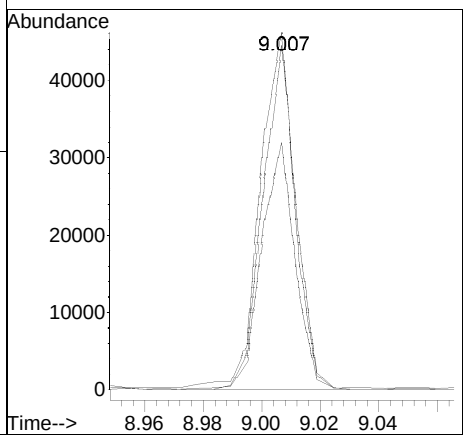


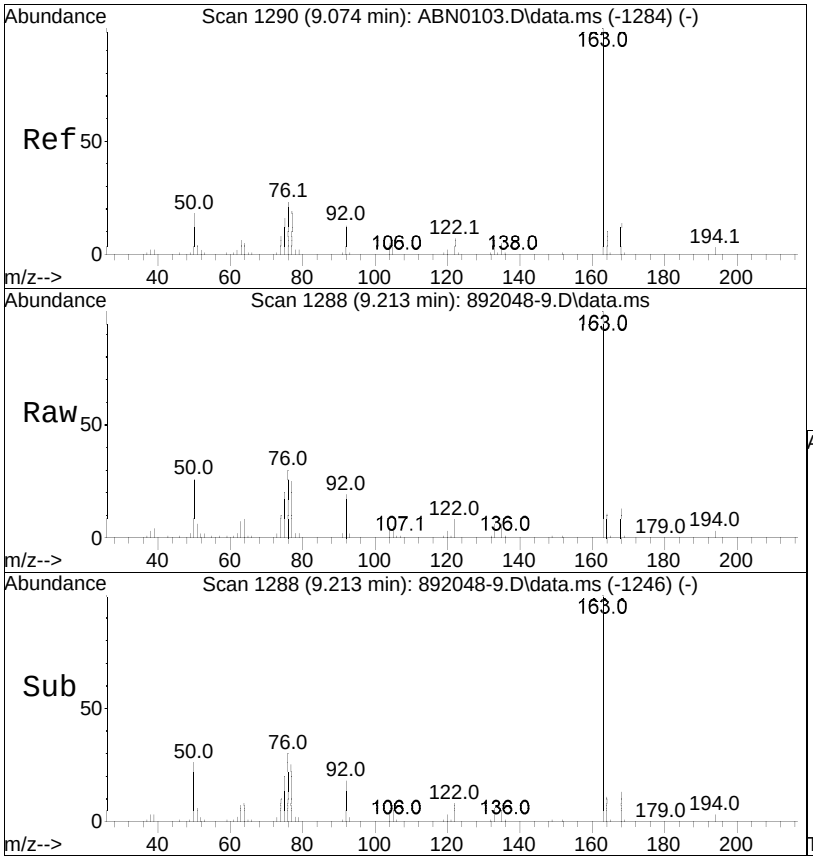


#47
2-Nitroaniline
Concen: 4.25 ug/ml
RT: 9.007 min Scan# 1253
Delta R.T. -0.000 min
Lab File: 892048-9.D
Acq: 6 Mar 2024 7:39 am

Tgt Ion:138 Resp: 34773

Ion	Ratio	Lower	Upper
138	100		
92	72.7	53.5	80.3
65	107.3	86.3	129.5

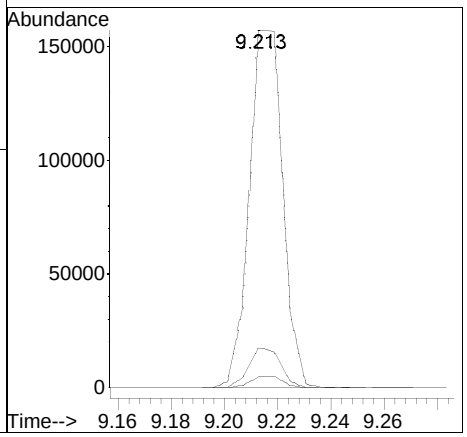


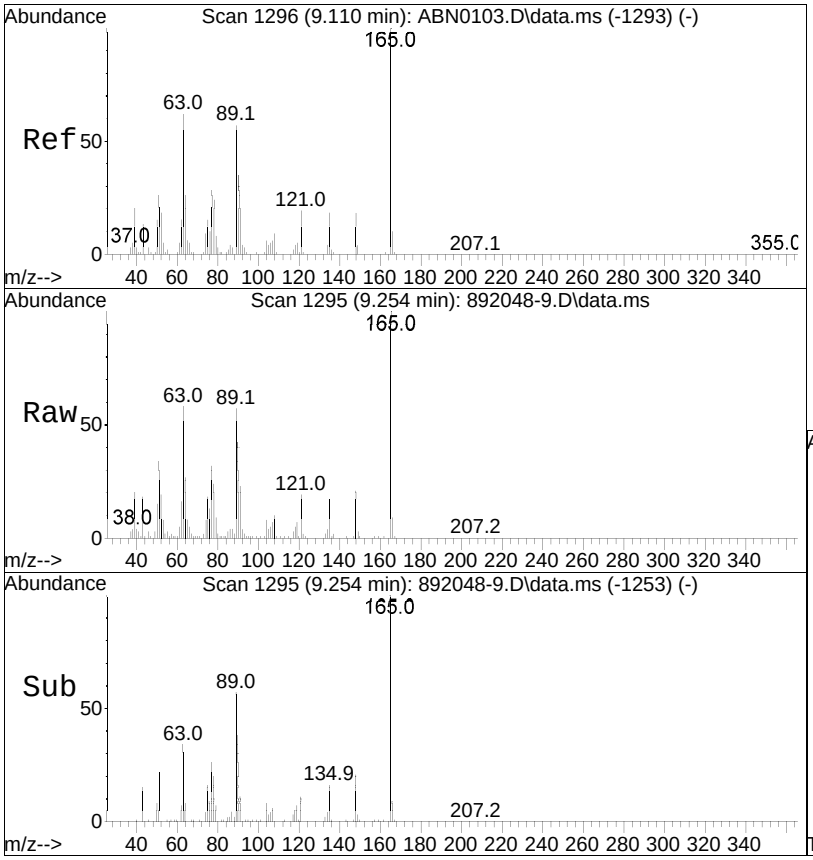


#50
Dimethyl phthalate
Concen: 3.85 ug/ml
RT: 9.213 min Scan# 1288
Delta R.T. -0.006 min
Lab File: 892048-9.D
Acq: 6 Mar 2024 7:39 am

Tgt Ion:163 Resp: 136412

Ion	Ratio	Lower	Upper
163	100		
194	3.2	3.5	5.3#
164	10.8	7.9	11.9

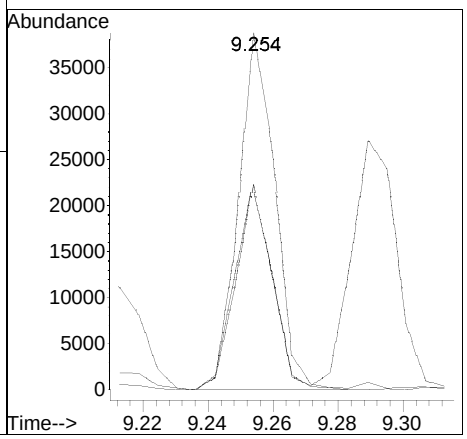


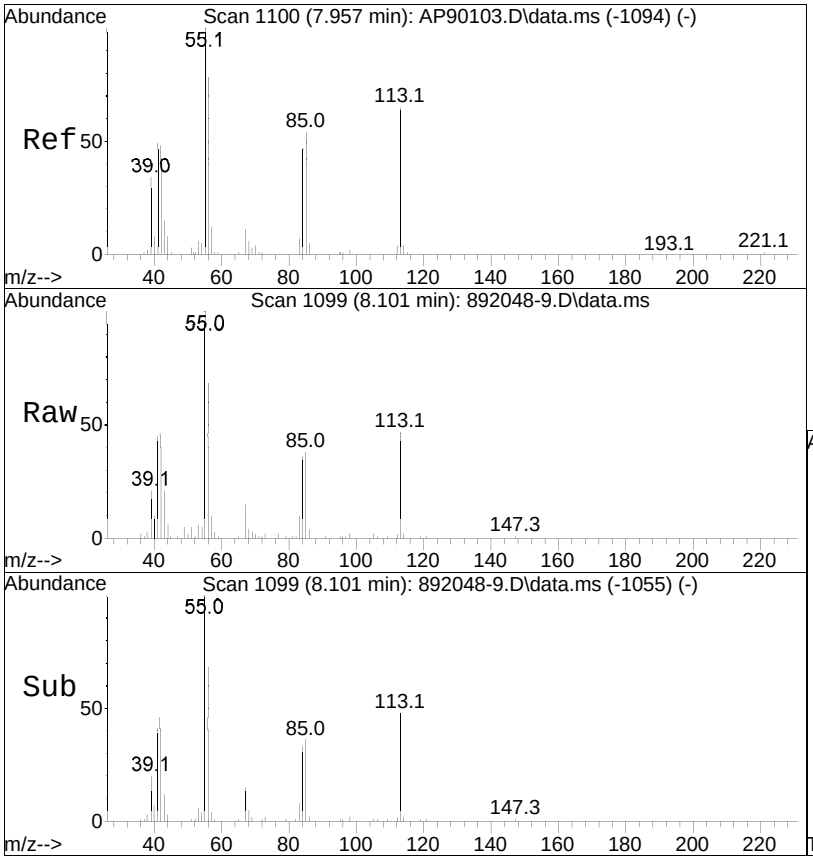


#52
2,6-Dinitrotoluene
Concen: 4.48 ug/ml
RT: 9.254 min Scan# 1295
Delta R.T. -0.000 min
Lab File: 892048-9.D
Acq: 6 Mar 2024 7:39 am

Tgt Ion:165 Resp: 30221

Ion	Ratio	Lower	Upper
165	100		
89	57.6	54.2	81.2
63	58.6	64.2	96.2#

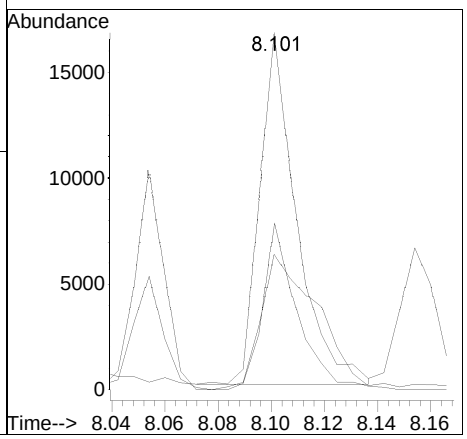


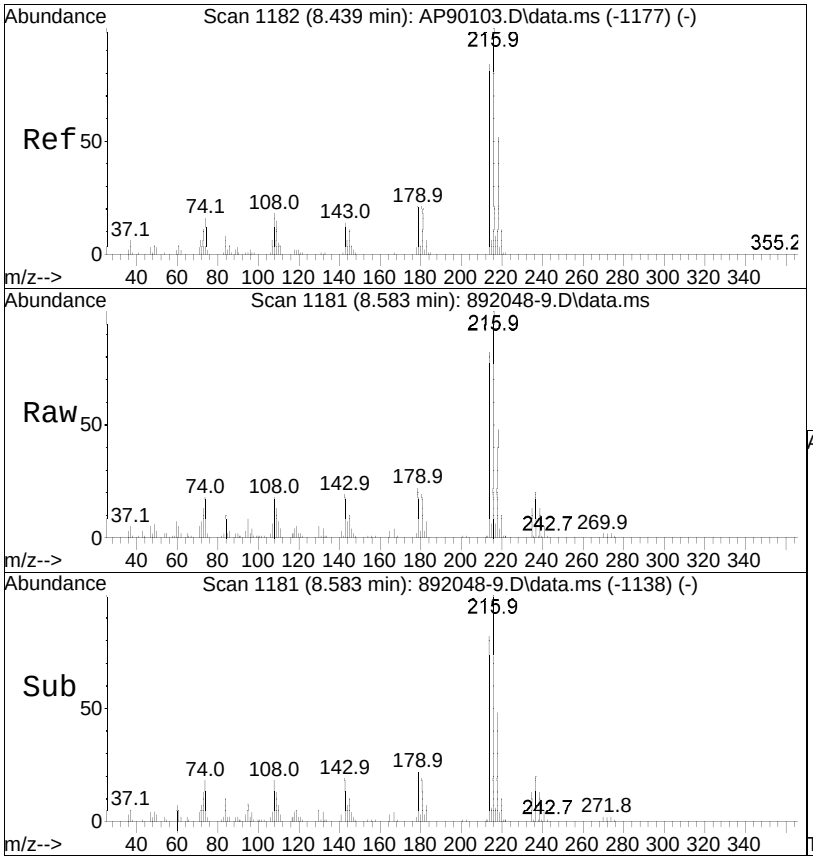


#59
Caprolactam
Concen: 2.41 ug/ml
RT: 8.101 min Scan# 1099
Delta R.T. 0.006 min
Lab File: 892048-9.D
Acq: 6 Mar 2024 7:39 am

Tgt Ion: 55 Resp: 15931

Ion	Ratio	Lower	Upper
55	100		
85	59.7	19.8	29.6#
113	44.6	29.6	44.4#

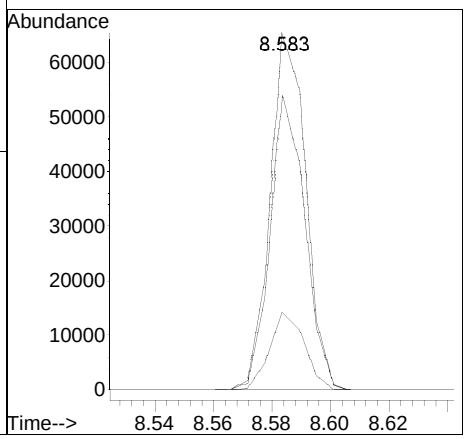


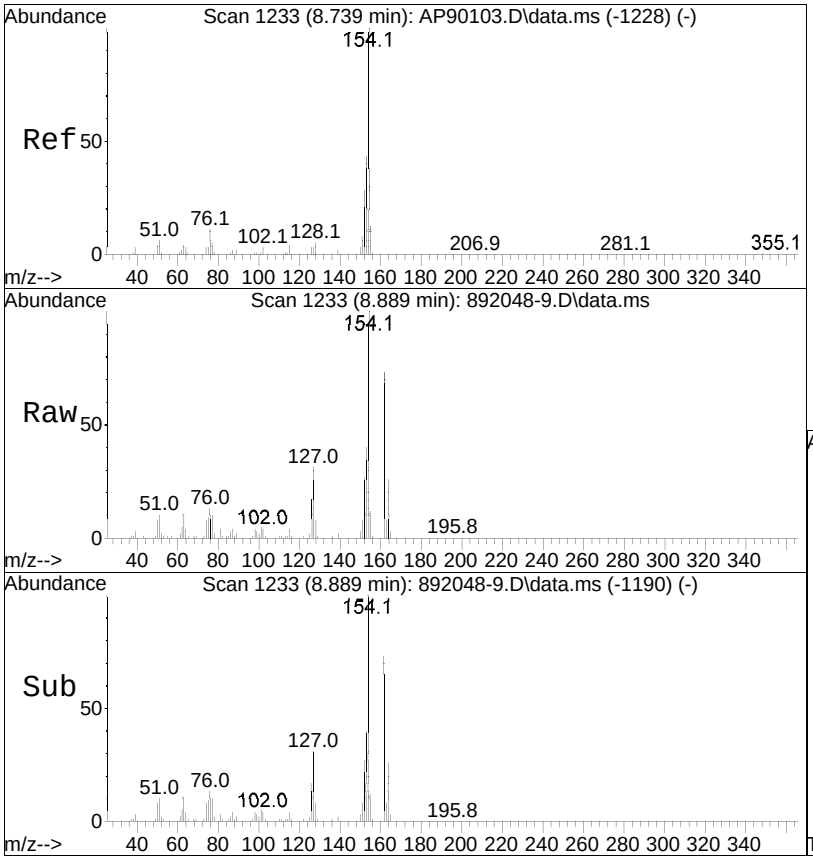


#60
1,2,4,5-Tetrachlorobenzene
Concen: 3.51 ug/ml
RT: 8.583 min Scan# 1181
Delta R.T. 0.000 min
Lab File: 892048-9.D
Acq: 6 Mar 2024 7:39 am

Tgt Ion:216 Resp: 54999

Ion	Ratio	Lower	Upper
216	100		
214	80.9	63.7	95.5
179	21.4	19.0	28.6

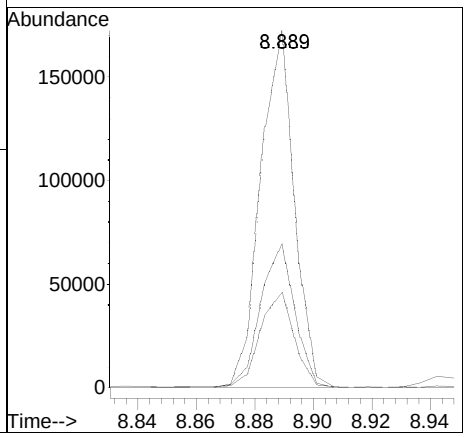


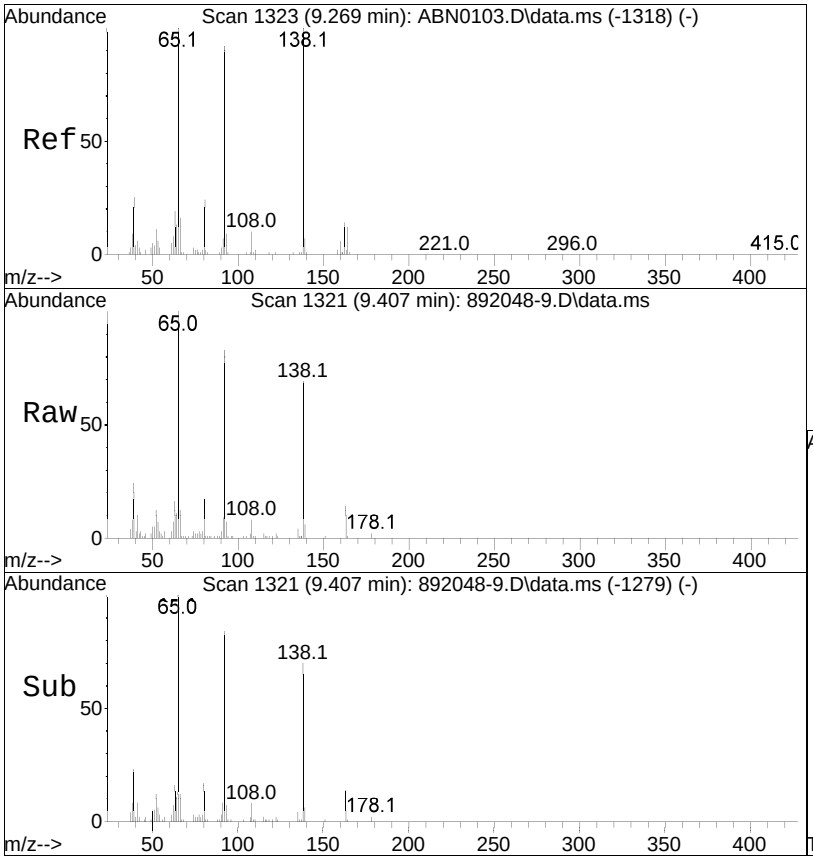


#61
Biphenyl
Concen: 3.56 ug/ml
RT: 8.889 min Scan# 1233
Delta R.T. 0.000 min
Lab File: 892048-9.D
Acq: 6 Mar 2024 7:39 am

Tgt Ion:154 Resp: 137235

Ion	Ratio	Lower	Upper
154	100		
153	41.0	32.3	48.5
152	27.3	22.5	33.7

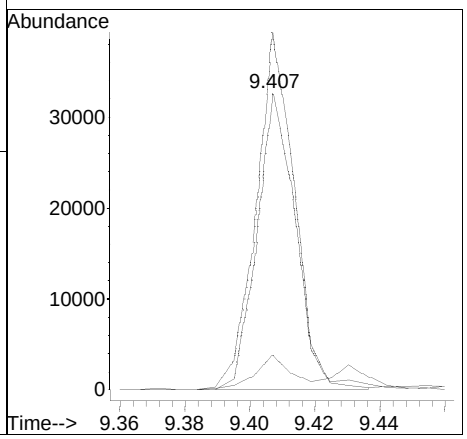


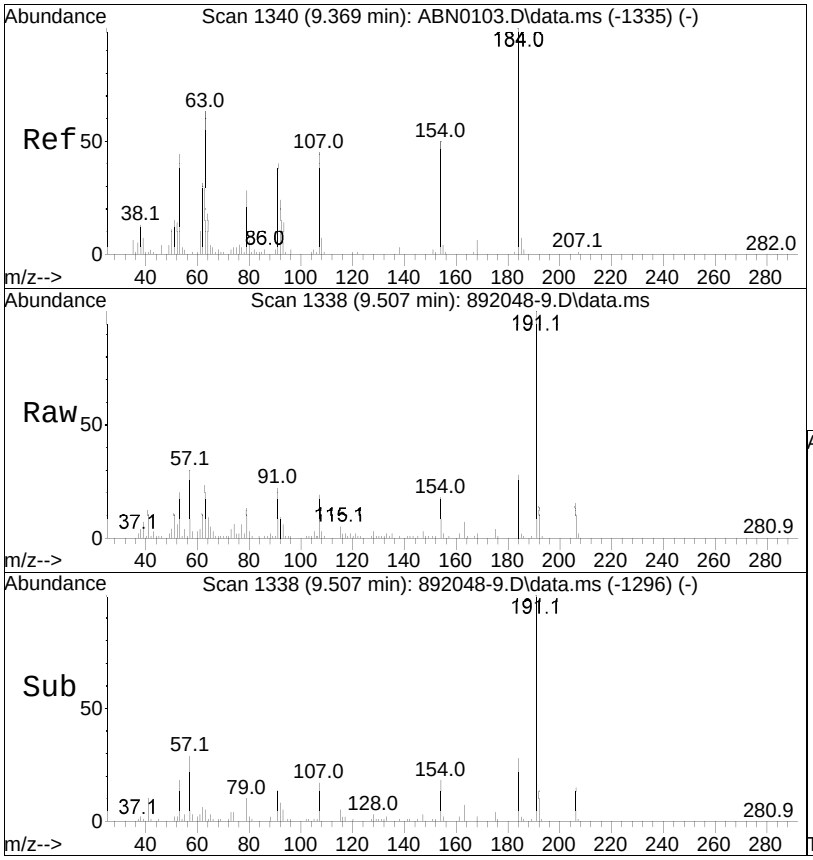


#63
3-Nitroaniline
Concen: 3.42 ug/ml
RT: 9.407 min Scan# 1321
Delta R.T. -0.000 min
Lab File: 892048-9.D
Acq: 6 Mar 2024 7:39 am

Tgt Ion:138 Resp: 26417

Ion	Ratio	Lower	Upper
138	100		
92	122.6	93.4	140.2
108	11.3	9.5	14.3

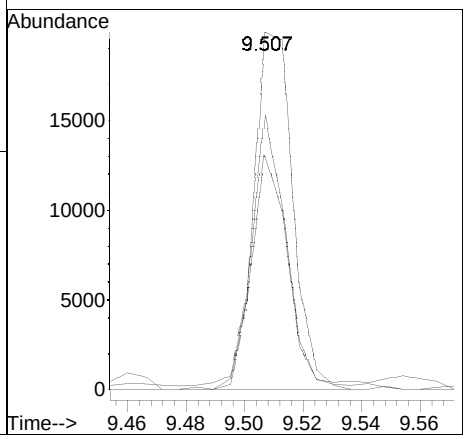


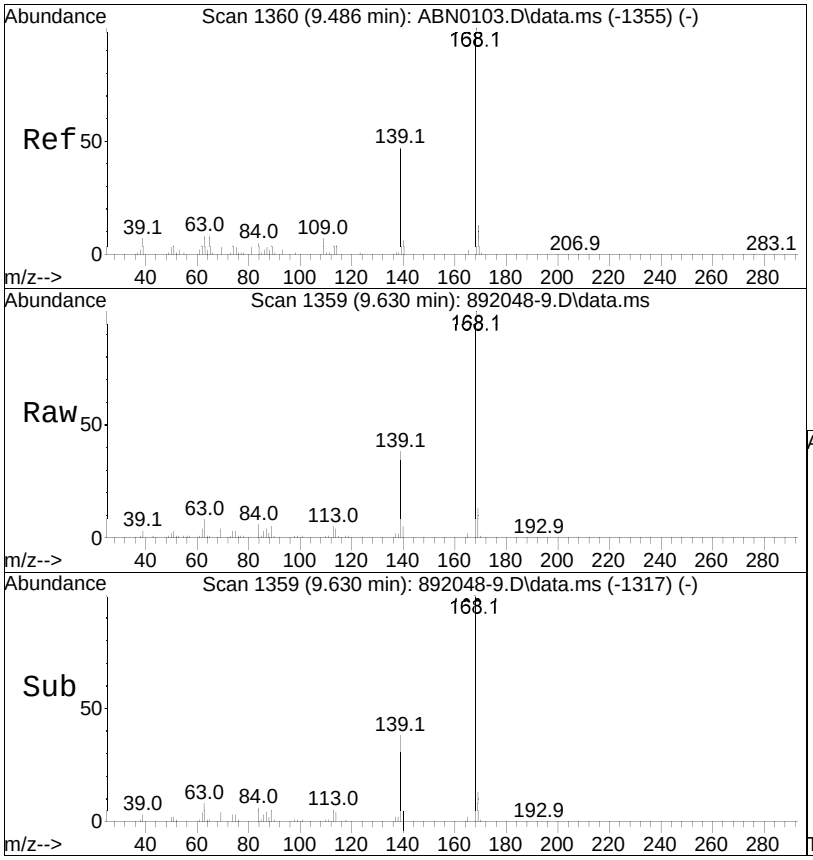


#65
2,4-Dinitrophenol
Concen: 5.31 ug/ml
RT: 9.507 min Scan# 1338
Delta R.T. -0.006 min
Lab File: 892048-9.D
Acq: 6 Mar 2024 7:39 am

Tgt Ion:184 Resp: 18326

Ion	Ratio	Lower	Upper
184	100		
107	62.3	37.7	56.5#
91	66.6	46.3	69.5

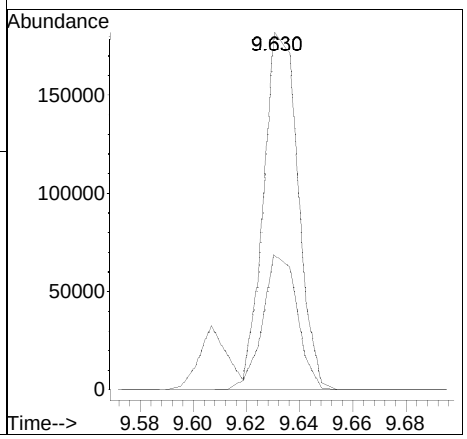


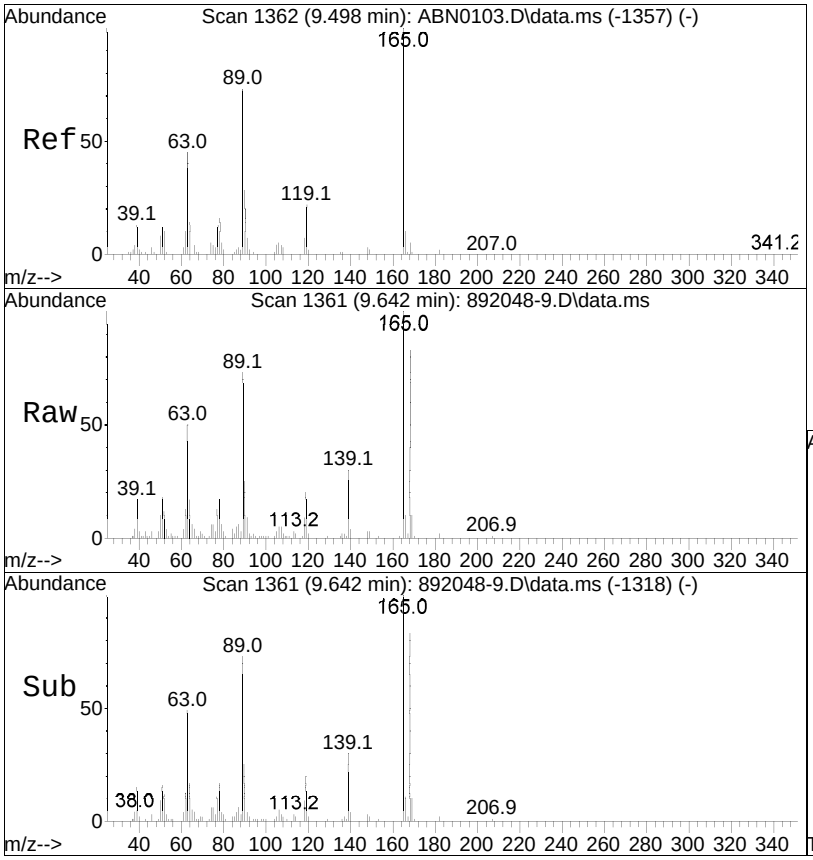


#66
Dibenzofuran
Concen: 3.57 ug/ml
RT: 9.630 min Scan# 1359
Delta R.T. -0.006 min
Lab File: 892048-9.D
Acq: 6 Mar 2024 7:39 am

Tgt Ion:168 Resp: 162993

Ion	Ratio	Lower	Upper
168	100		
139	36.9	31.4	47.2

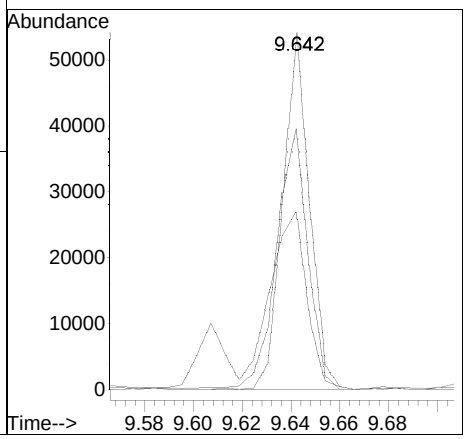


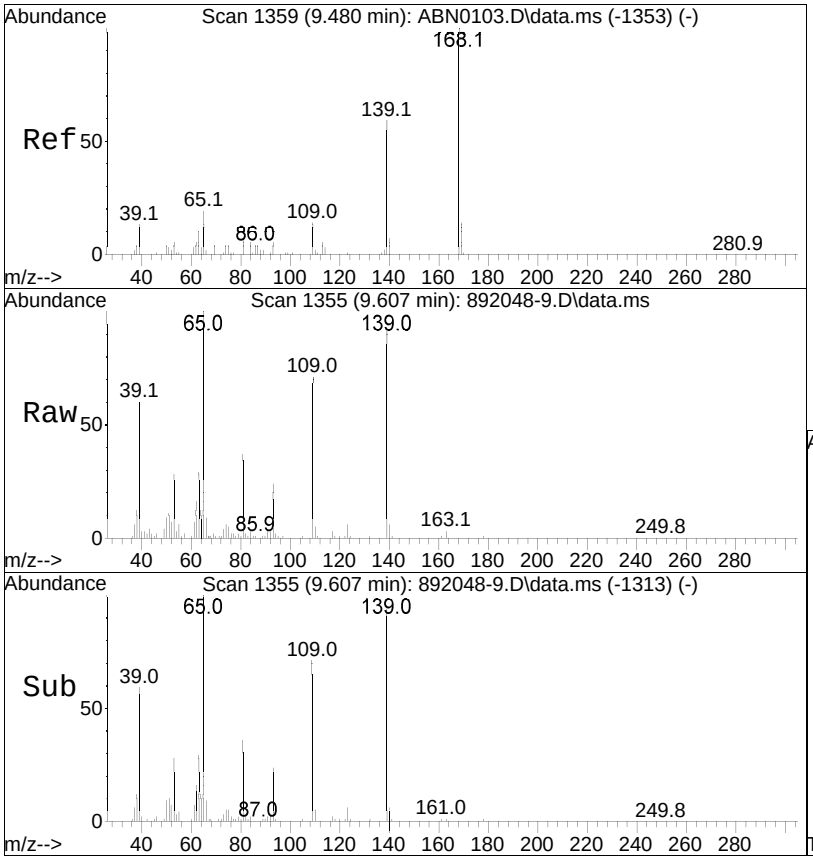


#67
2,4-Dinitrotoluene
Concen: 4.26 ug/ml
RT: 9.642 min Scan# 1361
Delta R.T. -0.000 min
Lab File: 892048-9.D
Acq: 6 Mar 2024 7:39 am

Tgt Ion:165 Resp: 40917

Ion	Ratio	Lower	Upper
165	100		
89	86.8	72.0	108.0
63	69.1	52.7	79.1

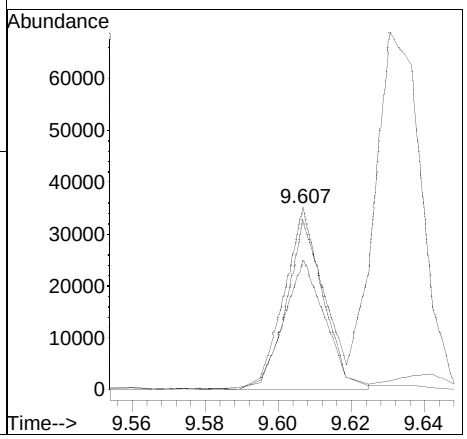


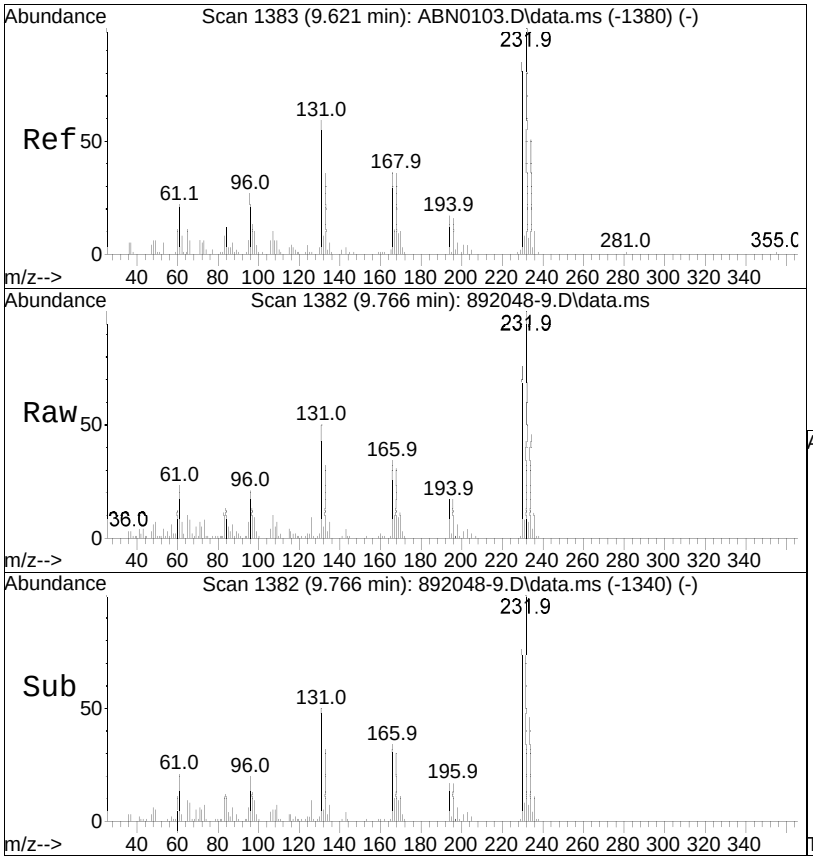


#68
4-Nitrophenol
Concen: 3.67 ug/ml
RT: 9.607 min Scan# 1355
Delta R.T. -0.000 min
Lab File: 892048-9.D
Acq: 6 Mar 2024 7:39 am

Tgt Ion: 65 Resp: 25949

Ion	Ratio	Lower	Upper
65	100		
109	79.4	47.4	71.2#
139	95.0	76.6	115.0

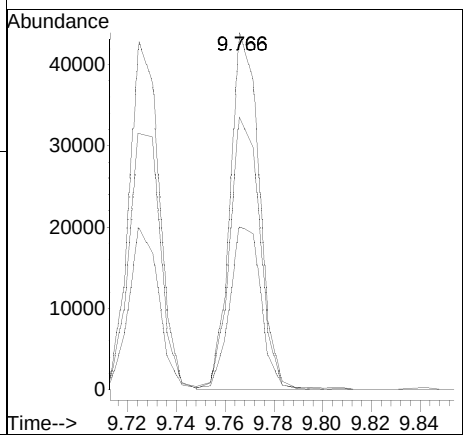


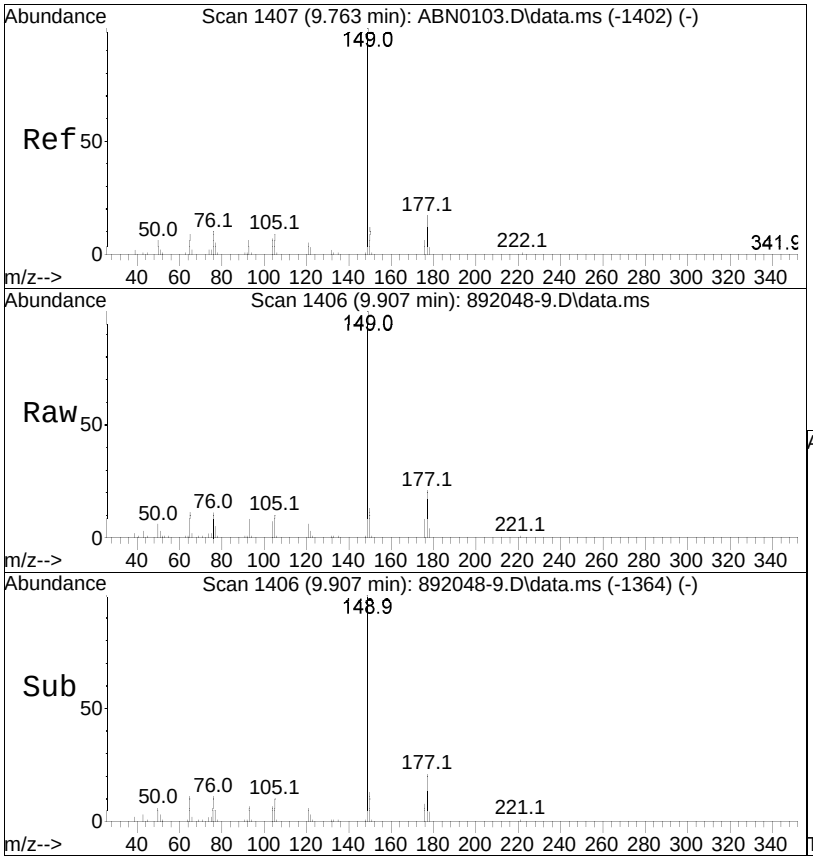


#70
2,3,4,6-Tetrachlorophenol
Concen: 4.04 ug/ml
RT: 9.766 min Scan# 1382
Delta R.T. -0.006 min
Lab File: 892048-9.D
Acq: 6 Mar 2024 7:39 am

Tgt Ion:232 Resp: 36847

Ion	Ratio	Lower	Upper
232	100		
230	78.4	61.8	92.8
234	48.5	36.2	54.2

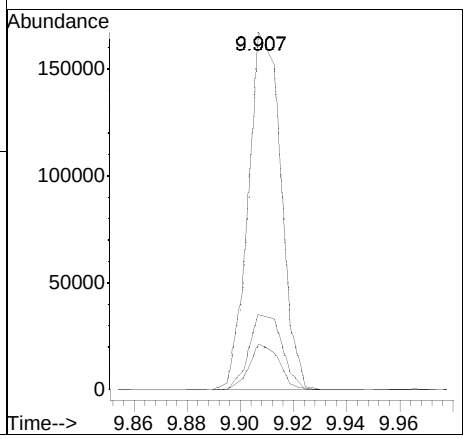


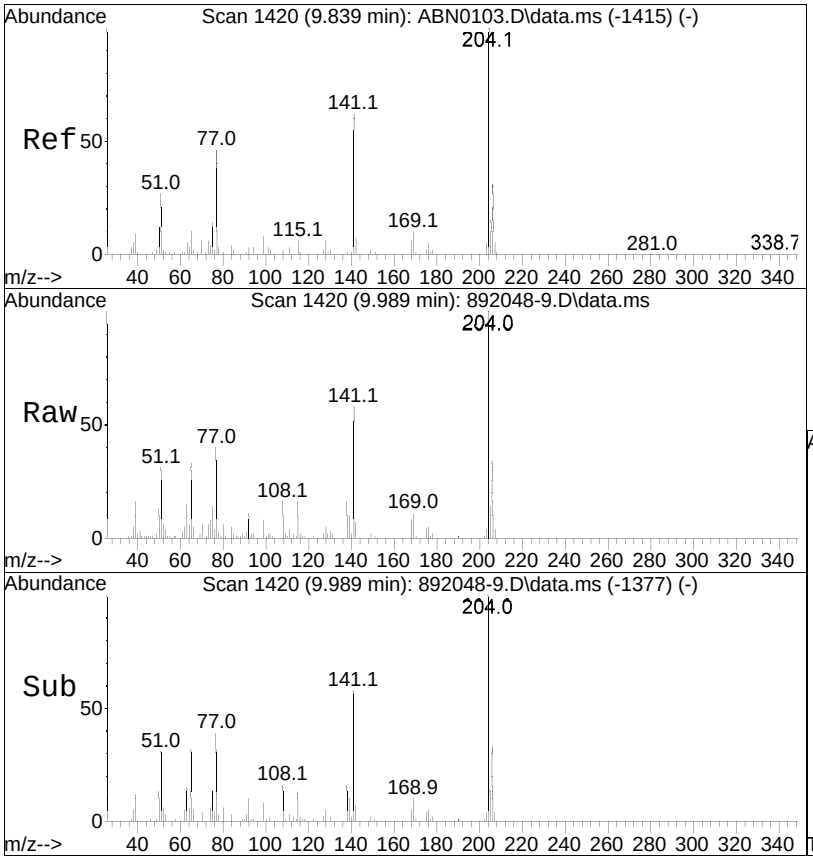


#71
Diethyl phthalate
Concen: 3.70 ug/ml
RT: 9.907 min Scan# 1406
Delta R.T. -0.000 min
Lab File: 892048-9.D
Acq: 6 Mar 2024 7:39 am

Tgt Ion:149 Resp: 141357

Ion	Ratio	Lower	Upper
149	100		
177	21.7	16.1	24.1
150	12.1	9.4	14.2

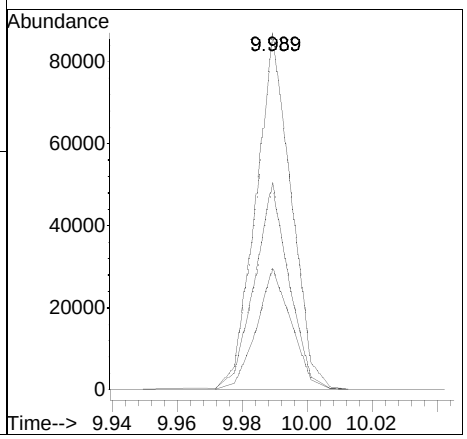


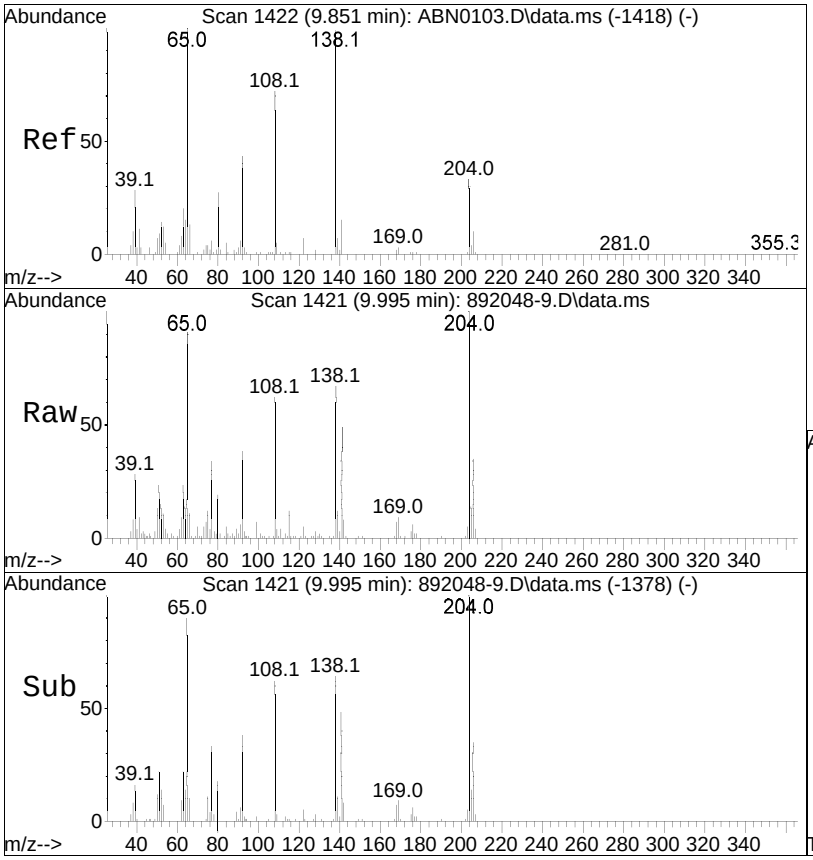


#73
4-Chlorophenyl phenyl ether
Concen: 3.79 ug/ml
RT: 9.989 min Scan# 1420
Delta R.T. 0.000 min
Lab File: 892048-9.D
Acq: 6 Mar 2024 7:39 am

Tgt Ion:204 Resp: 65183

Ion	Ratio	Lower	Upper
204	100		
206	33.7	25.8	38.6
141	57.3	53.6	80.4

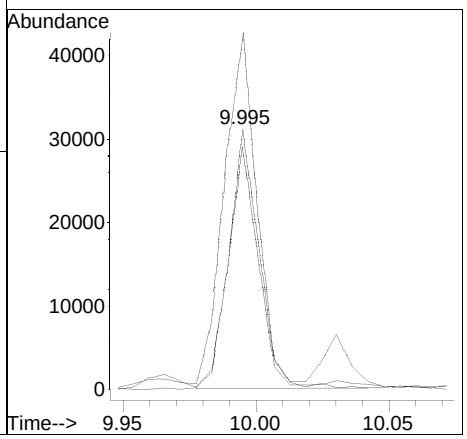


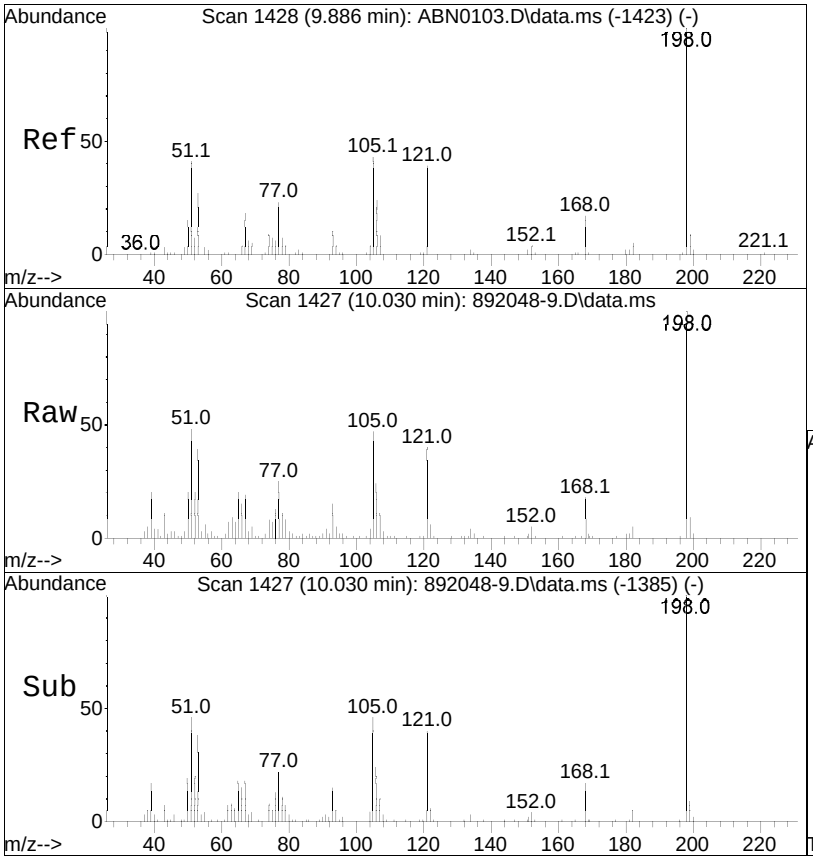


#74
4-Nitroaniline
Concen: 3.15 ug/ml
RT: 9.995 min Scan# 1421
Delta R.T. -0.000 min
Lab File: 892048-9.D
Acq: 6 Mar 2024 7:39 am

Tgt Ion:138 Resp: 24615

Ion	Ratio	Lower	Upper
138	100		
108	93.0	52.1	78.1#
65	149.5	115.0	172.6

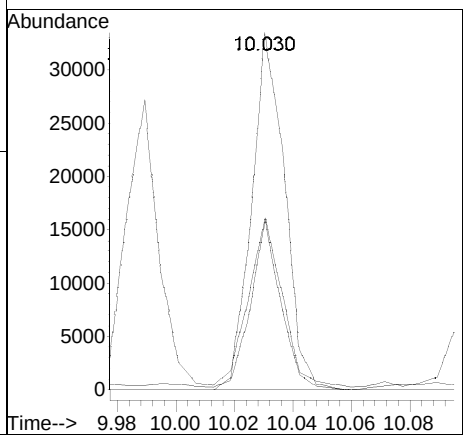


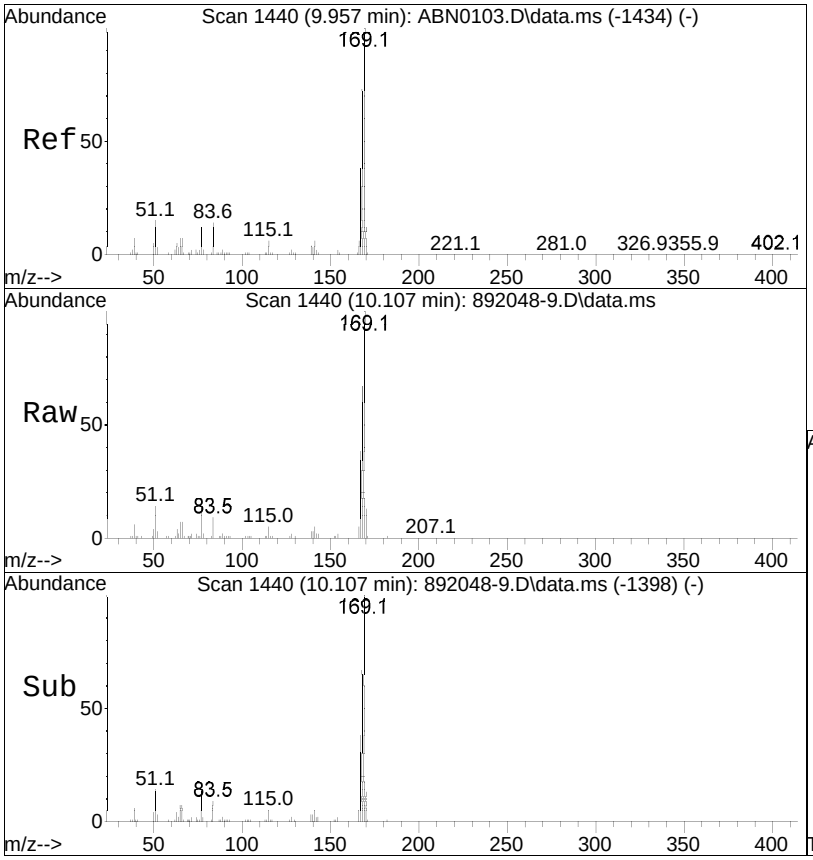


#75
4,6-Dinitro-o-cresol
Concen: 5.69 ug/ml
RT: 10.030 min Scan# 1427
Delta R.T. -0.000 min
Lab File: 892048-9.D
Acq: 6 Mar 2024 7:39 am

Tgt Ion:198 Resp: 26271

Ion	Ratio	Lower	Upper
198	100		
51	48.8	76.0	114.0#
105	43.8	45.6	68.4#

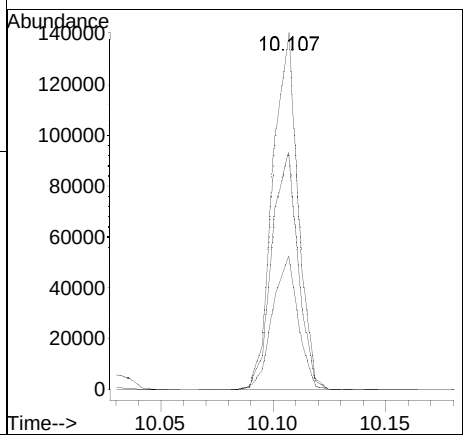


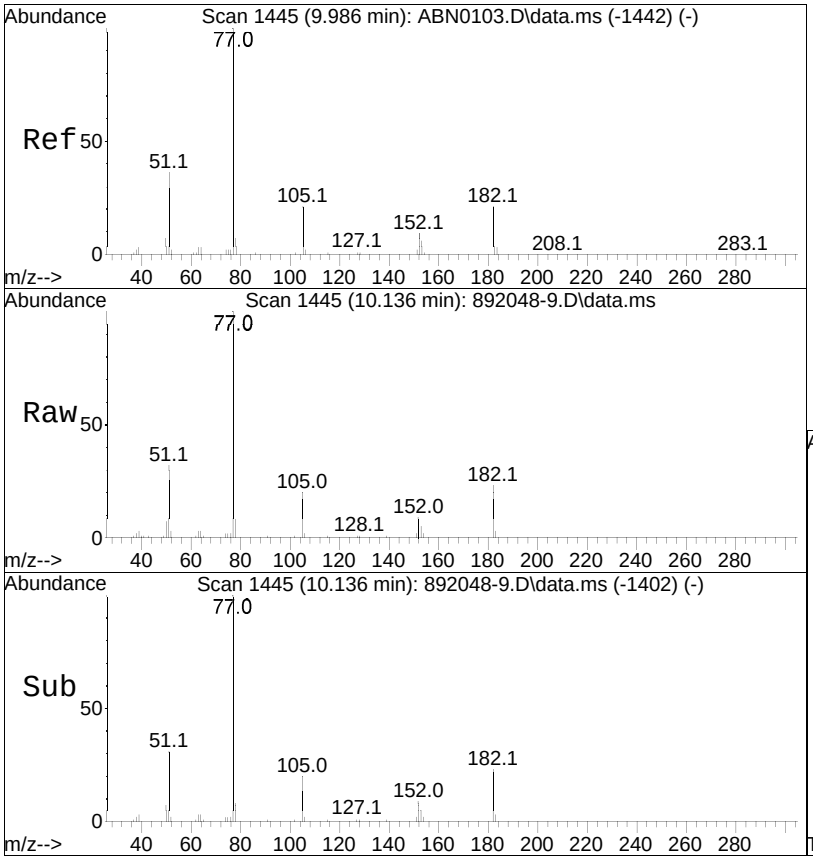


#76
NDPA/DPA
Concen: 3.60 ug/ml
RT: 10.107 min Scan# 1440
Delta R.T. -0.000 min
Lab File: 892048-9.D
Acq: 6 Mar 2024 7:39 am

Tgt Ion:169 Resp: 109297

Ion	Ratio	Lower	Upper
169	100		
168	69.7	54.0	81.0
167	38.5	28.6	42.8

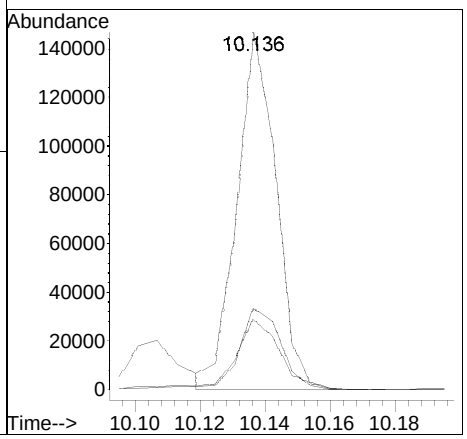


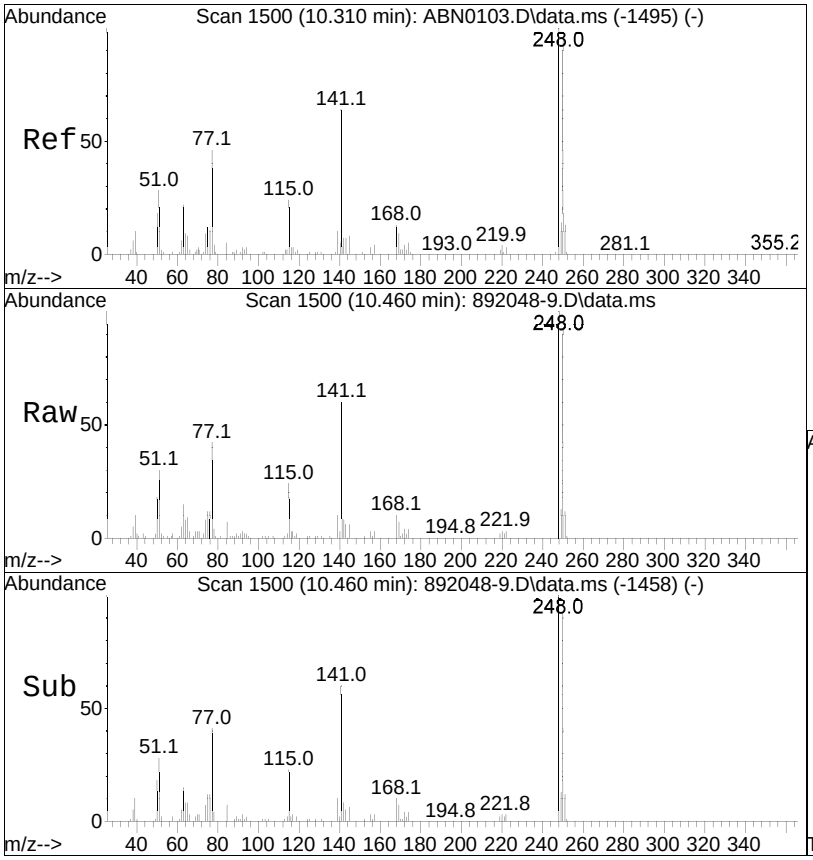


#77
Azobenzene
Concen: 3.40 ug/ml
RT: 10.136 min Scan# 1445
Delta R.T. 0.000 min
Lab File: 892048-9.D
Acq: 6 Mar 2024 7:39 am

Tgt Ion: 77 Resp: 121341

Ion	Ratio	Lower	Upper
77	100		
182	25.7	17.4	26.2
105	24.4	15.4	23.2#

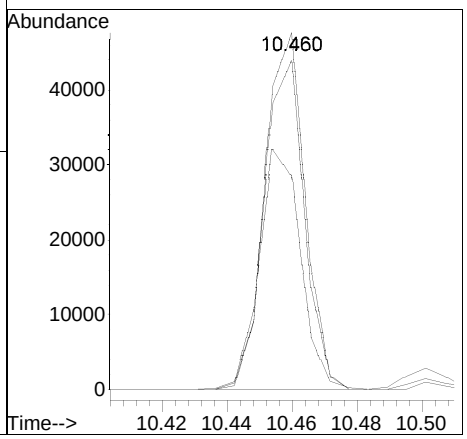


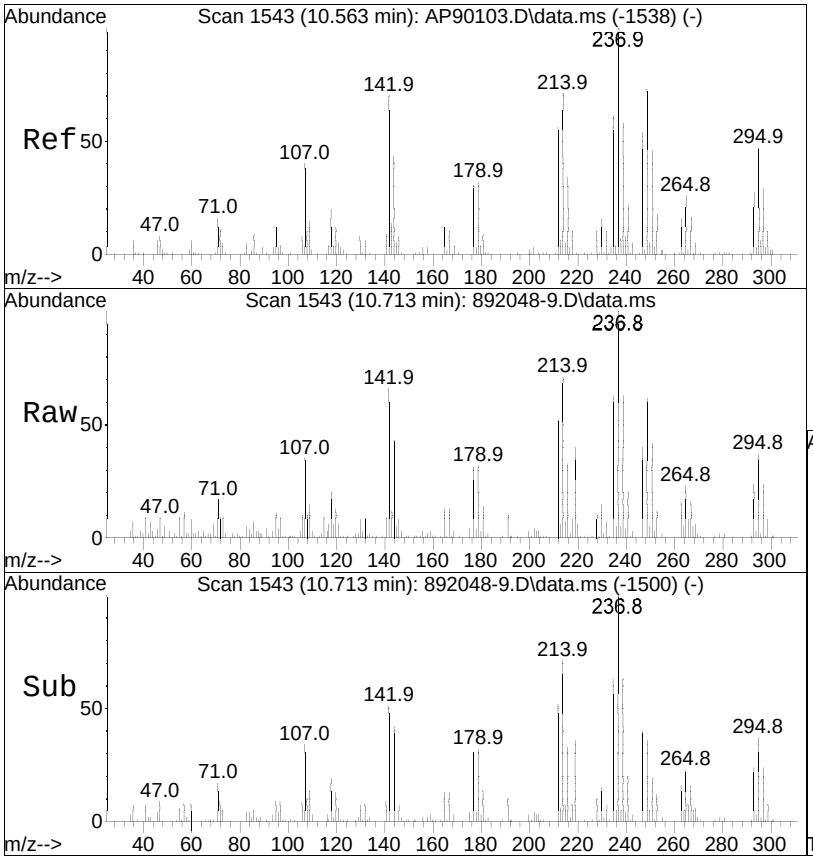


#79
4-Bromophenyl phenyl ether
Concen: 4.08 ug/ml
RT: 10.460 min Scan# 1500
Delta R.T. -0.000 min
Lab File: 892048-9.D
Acq: 6 Mar 2024 7:39 am

Tgt Ion:248 Resp: 40896

Ion	Ratio	Lower	Upper
248	100		
141	69.6	76.6	114.8#
250	93.0	77.3	115.9

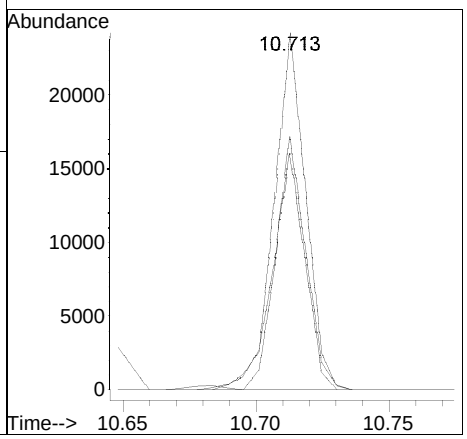


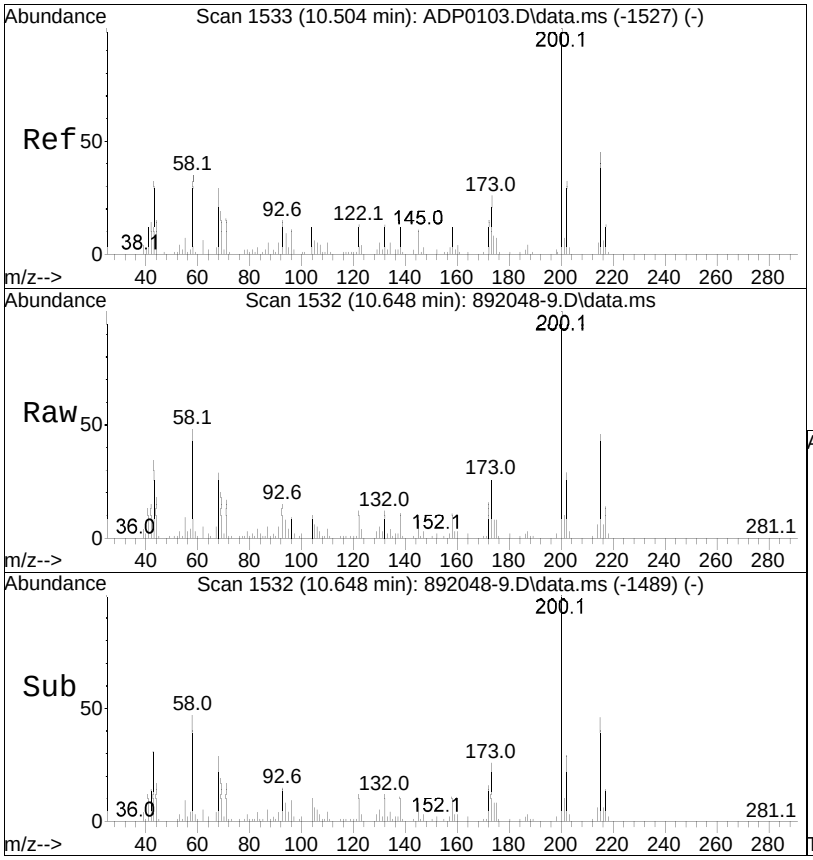


#84
Pentachloronitrobenzene
Concen: 4.45 ug/ml
RT: 10.713 min Scan# 1543
Delta R.T. 0.000 min
Lab File: 892048-9.D
Acq: 6 Mar 2024 7:39 am

Tgt Ion:237 Resp: 20028

Ion	Ratio	Lower	Upper
237	100		
142	68.2	77.0	115.4#
214	67.5	58.2	87.4

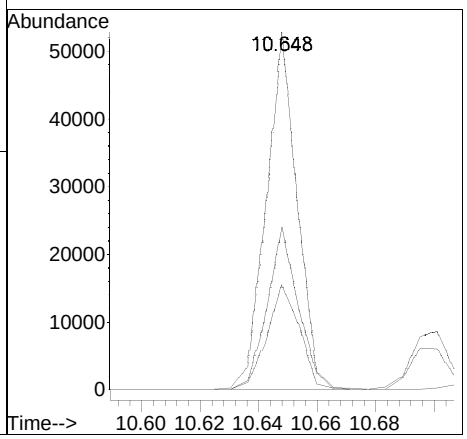


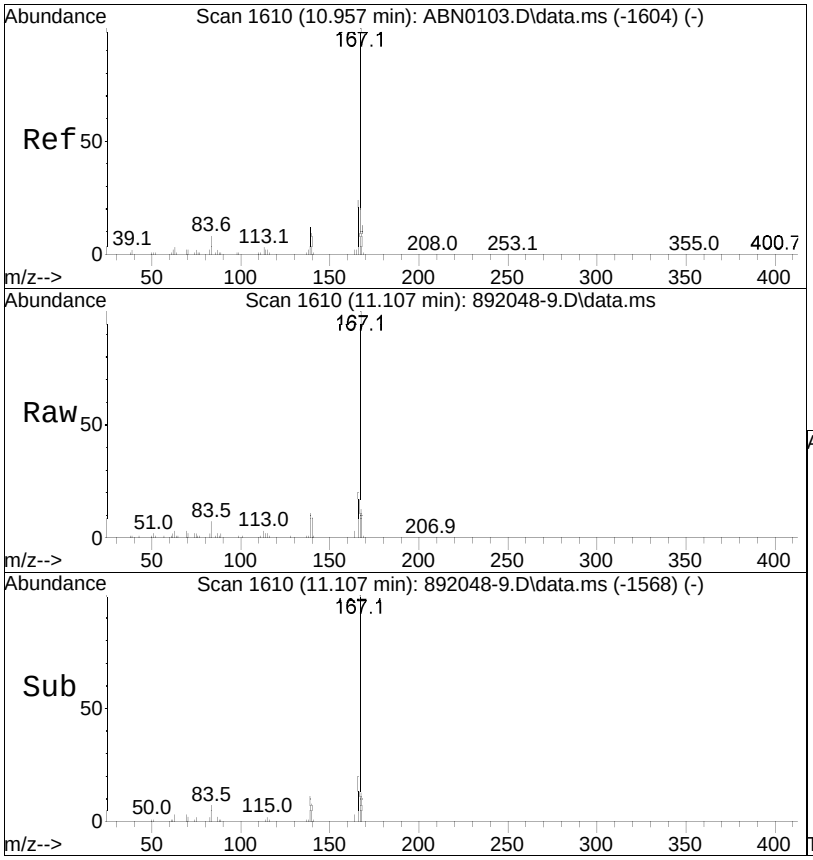


#86
Atrazine
Concen: 4.11 ug/ml
RT: 10.648 min Scan# 1532
Delta R.T. -0.000 min
Lab File: 892048-9.D
Acq: 6 Mar 2024 7:39 am

Tgt Ion:200 Resp: 38315

Ion	Ratio	Lower	Upper
200	100		
202	31.1	25.8	38.6
215	45.9	40.2	60.4

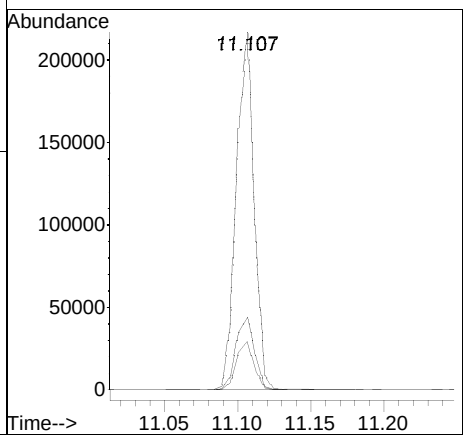


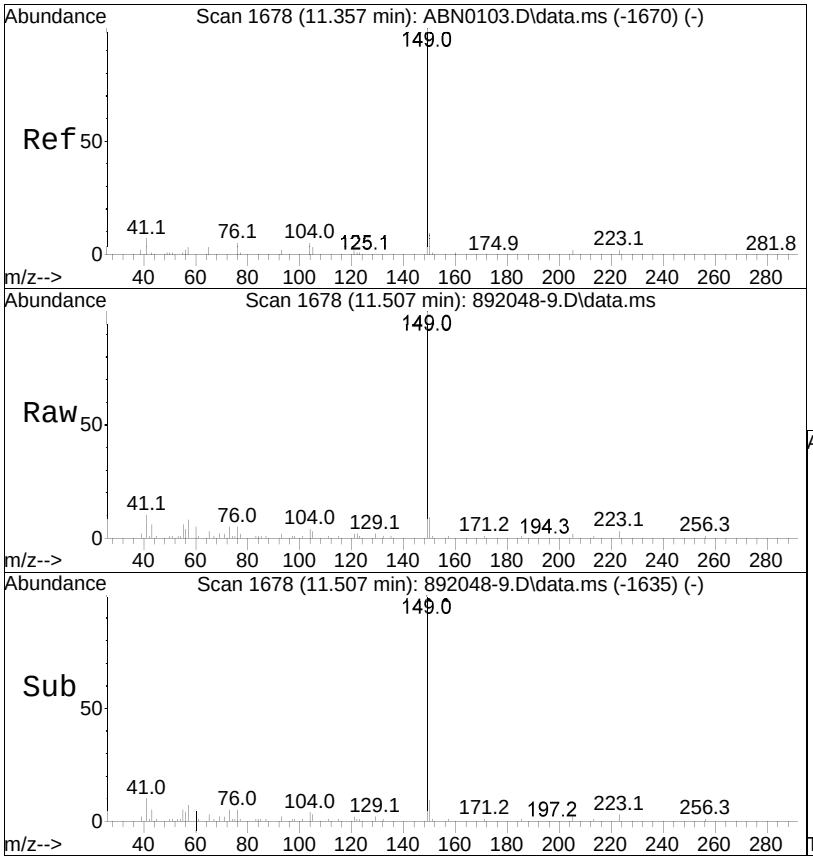


#90
Carbazole
Concen: 3.35 ug/ml
RT: 11.107 min Scan# 1610
Delta R.T. -0.000 min
Lab File: 892048-9.D
Acq: 6 Mar 2024 7:39 am

Tgt Ion:167 Resp: 181585

Ion	Ratio	Lower	Upper
167	100		
168	13.4	10.6	15.8
166	21.3	17.4	26.0

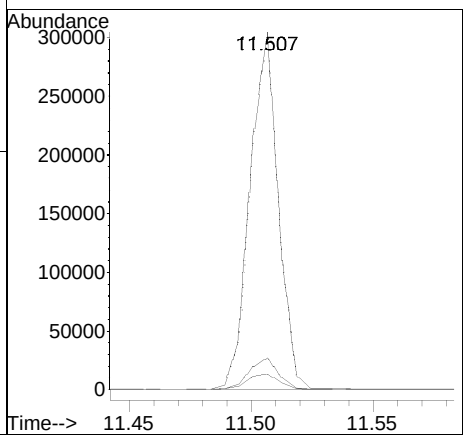


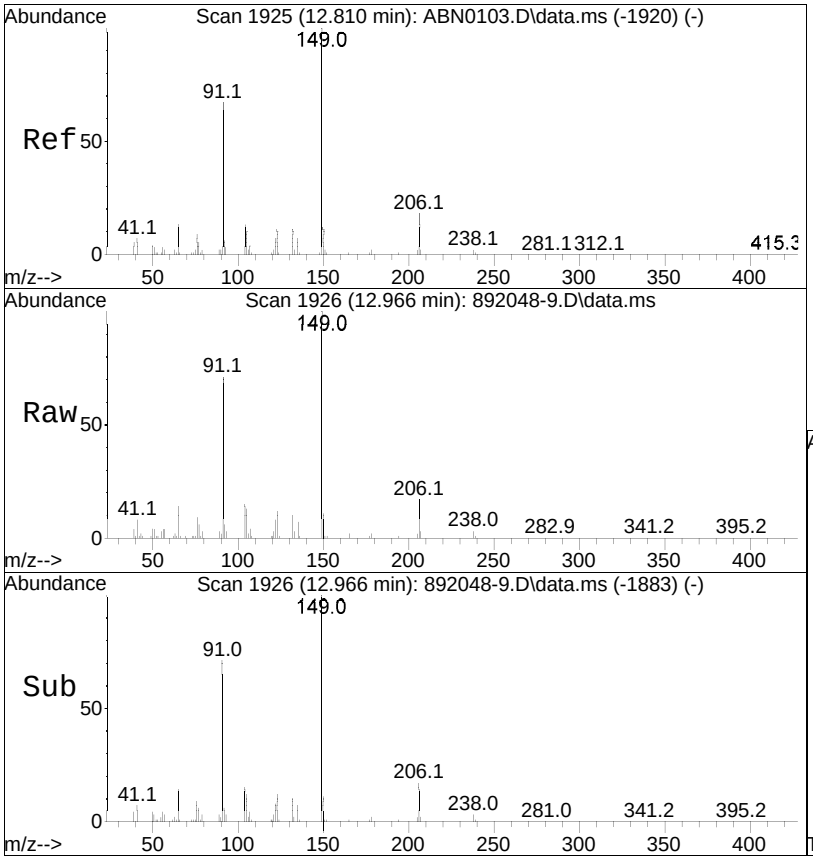


#91
Di-n-butylphthalate
Concen: 3.49 ug/ml
RT: 11.507 min Scan# 1678
Delta R.T. -0.000 min
Lab File: 892048-9.D
Acq: 6 Mar 2024 7:39 am

Tgt Ion:149 Resp: 242573

Ion	Ratio	Lower	Upper
149	100		
150	9.2	7.0	10.6
104	4.9	4.5	6.7

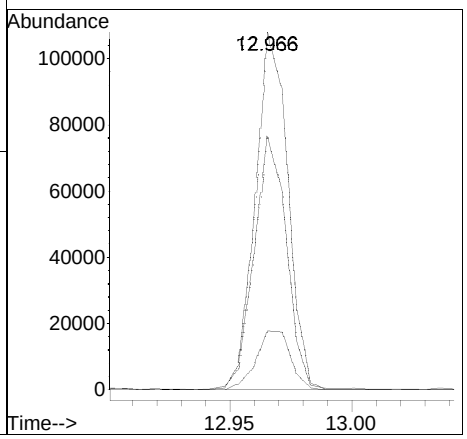


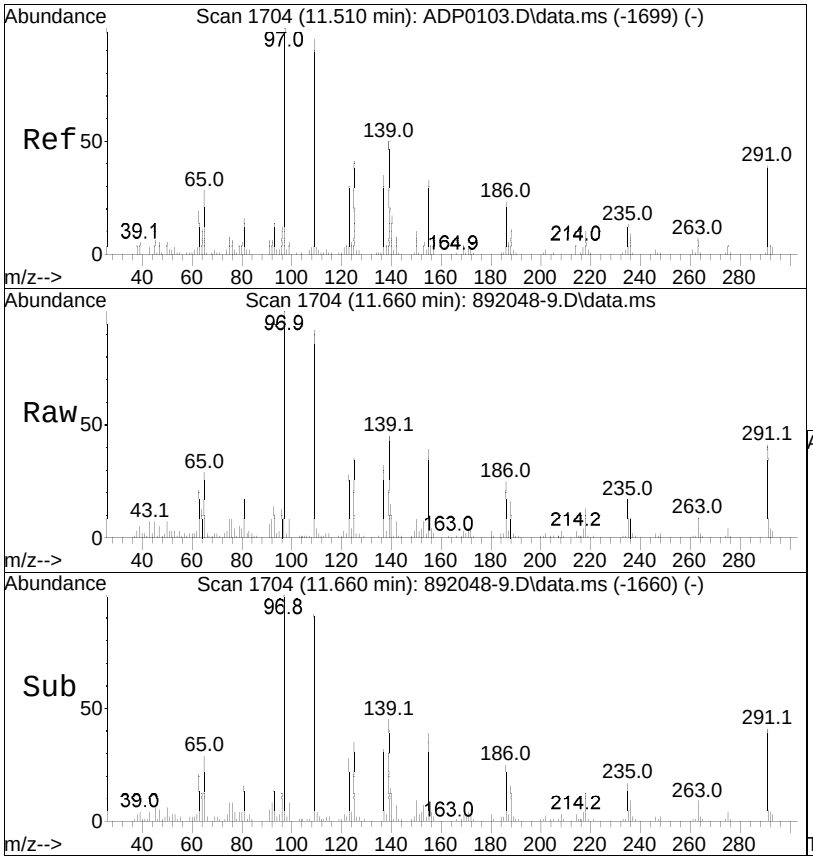


#96
Butyl benzyl phthalate
Concen: 3.35 ug/ml
RT: 12.966 min Scan# 1926
Delta R.T. -0.000 min
Lab File: 892048-9.D
Acq: 6 Mar 2024 7:39 am

Tgt Ion:149 Resp: 99143

Ion	Ratio	Lower	Upper
149	100		
91	70.6	63.3	94.9
206	17.6	13.9	20.9

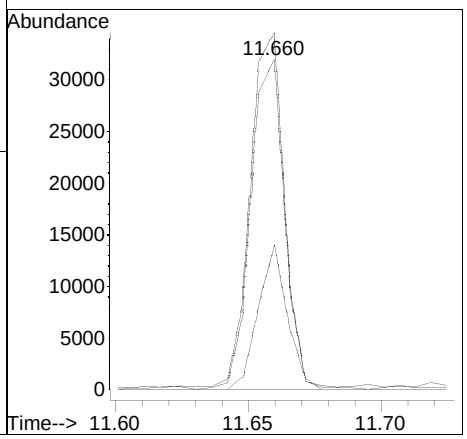


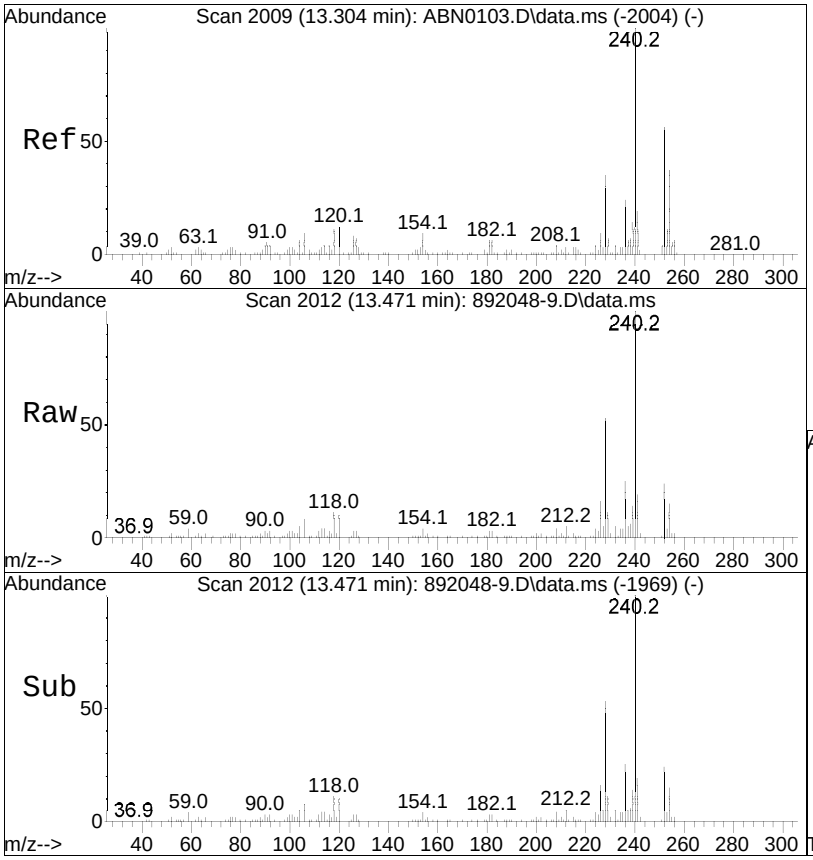


#101
Parathion
Concen: 5.47 ug/ml
RT: 11.660 min Scan# 1704
Delta R.T. 0.006 min
Lab File: 892048-9.D
Acq: 6 Mar 2024 7:39 am

Tgt Ion:109 Resp: 28123

Ion	Ratio	Lower	Upper
109	100		
97	107.5	87.4	131.2
291	37.9	34.2	51.2

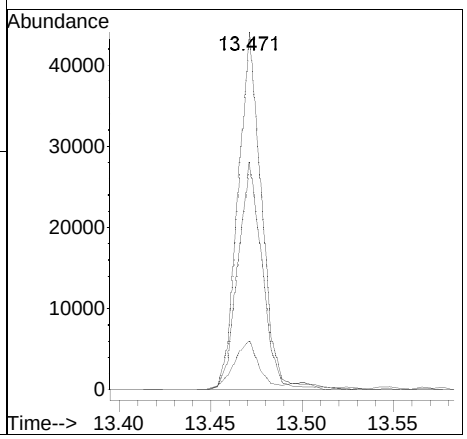


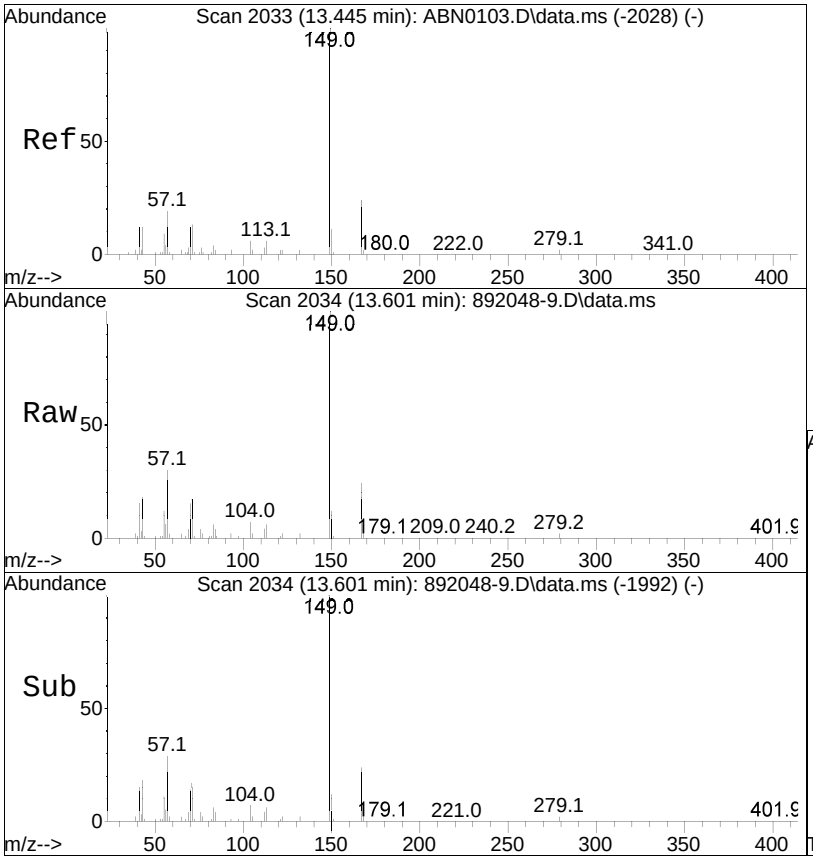


#105
3,3'-Dichlorobenzidine
Concen: 1.95 ug/ml
RT: 13.471 min Scan# 2012
Delta R.T. -0.000 min
Lab File: 892048-9.D
Acq: 6 Mar 2024 7:39 am

Tgt Ion:252 Resp: 39647

Ion	Ratio	Lower	Upper
252	100		
126	15.0	14.5	21.7
254	65.6	51.2	76.8

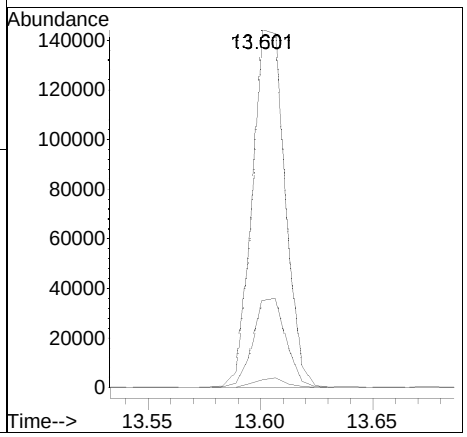


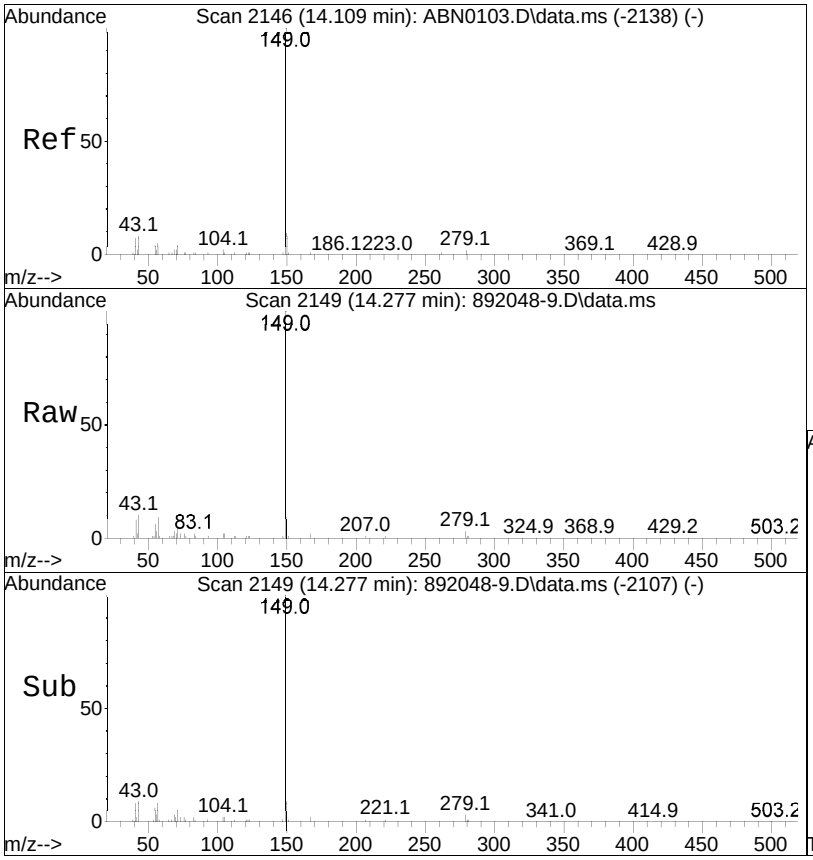


#107
Bis(2-ethylhexyl)phthalate
Concen: 3.78 ug/ml
RT: 13.601 min Scan# 2034
Delta R.T. -0.006 min
Lab File: 892048-9.D
Acq: 6 Mar 2024 7:39 am

Tgt Ion:149 Resp: 144774

Ion	Ratio	Lower	Upper
149	100		
167	25.1	22.1	33.1
279	2.3	3.0	4.4#

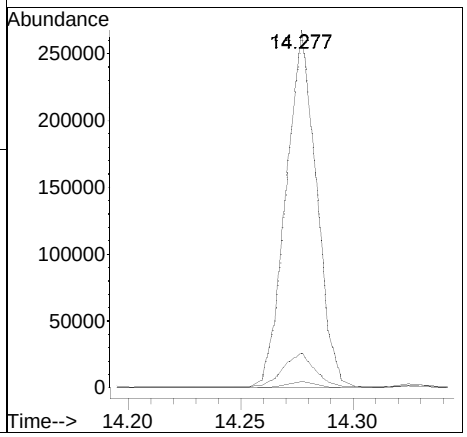




#108
Di-n-octylphthalate
Concen: 3.86 ug/ml
RT: 14.277 min Scan# 2149
Delta R.T. -0.000 min
Lab File: 892048-9.D
Acq: 6 Mar 2024 7:39 am

Tgt Ion:149 Resp: 249624

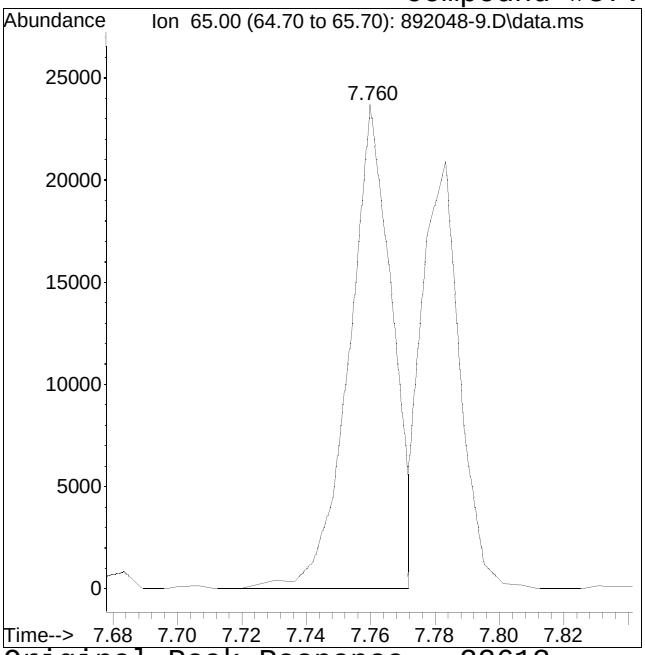
Ion	Ratio	Lower	Upper
149	100		
43	9.7	18.8	28.2#
167	1.7	1.3	1.9



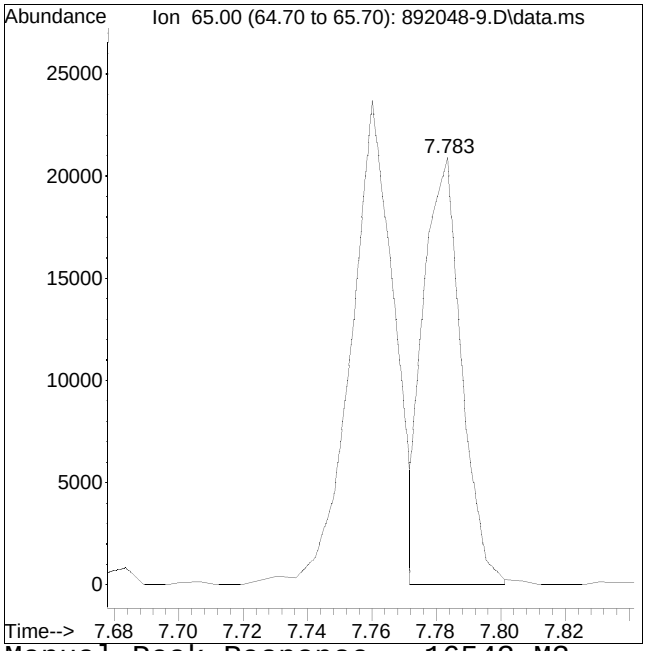
Manual Integration Report

Data Path	: I:\8270\SV106\240305nlvi\	QMethod	: FS230902SV106.m
Data File	: 892048-9.D	Operator	: SV106:sz
Date Inj'd	: 3/6/2024 7:39 am	Instrument	: SV 106
Sample	: WG1892048-9,32,,ASK	Quant Date	: 3/6/2024 8:01 am

Compound #37: 4-Chloroaniline



Original Peak Response = 22613



Manual Peak Response = 16543 M3

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

Calculation of Semi Volatile Organic Compounds

Aqueous Concentration Formula: Amt * DF * 1000 * (1/Vo) * Vf

Where:
DF = Dilution Factor
Vo = Volume of Sample (mL)
Vf = Extraction Lab Final Volume (mL)

Soil Concentration Formula: Amt * DF * 1000 * (1/Wt) * Vf * (100/TS)
Where:
DF = Dilution Factor
Wt = Weight of Sample (g)
Vf = Extraction Lab Final Volume (mL)
TS = Total Solids

ALPHA ANALYTICAL LABORATORIES, INC.

Alpha WORK GROUP REPORT (wk02)

Nov 04 2024, 10:09 am

Work Group: WG1891419 for Department: 2 Organic Preparation

Created: 02-MAR-24 Due: Operator: RET

Sample	Client ID	C	Product	Matrix	Stat	UA	HOLD	DUE	PR	Location
L2410285-01	MW-2	S	NYTCL-8270-LVI	WATER	DONE	U	0303	0304	S0	Amber-A.25
L2410285-02	MW-3	S	NYTCL-8270-LVI	WATER	DONE	U	0303	0304	S0	Amber-A.25
L2410285-03	MW-4	S	NYTCL-8270-LVI	WATER	DONE	U	0303	0304	S0	Amber-A.25
L2410285-04	MW-6	S	NYTCL-8270-LVI	WATER	DONE	U	0303	0304	S0	Amber-A.25
L2410285-05	MW-7	S	NYTCL-8270-LVI	WATER	DONE	U	0303	0304	S0	Amber-A.25
L2410285-06	MW-8	S	NYTCL-8270-LVI	WATER	DONE	U	0303	0304	S0	Amber-A.25
L2410285-07	MW-9	S	NYTCL-8270-LVI	WATER	DONE	U	0303	0304	S0	Amber-A.25
L2410285-08	MW-10	S	NYTCL-8270-LVI	WATER	DONE	U	0303	0304	S0	Amber-A.25
L2410285-09	MW-11	S	NYTCL-8270-LVI	WATER	DONE	U	0303	0304	S0	Amber-A.25
L2410579-01	MW-1S	C	NYTCL-8270-LVI	WATER	DONE	U	0304	0305	S0	Amber-A.25
L2410579-02	MW-2S	C	NYTCL-8270-LVI	WATER	DONE	U	0304	0305	S0	Amber-A.25
L2410579-03	MW-3S	C	NYTCL-8270-LVI	WATER	DONE	U	0304	0305	S0	Amber-A.25
L2410579-06	MW-6D	C	NYTCL-8270-LVI	WATER	DONE	U	0304	0305	S0	Amber-A.25
L2410579-07	MW-7S	C	NYTCL-8270-LVI	WATER	DONE	U	0304	0305	S0	Amber-A.25
L2410579-09	DUP	C	NYTCL-8270-LVI	WATER	DONE	U	0304	0305	S0	Amber-A.25
WG1891419-1	Laboratory Method Bl	S	NYTCL-8270-LVI	WATER	DONE	U				
WG1891419-2	Laboratory Control S	S	NYTCL-8270-LVI	WATER	DONE	U				
WG1891419-3	LCS Duplicate	S	NYTCL-8270-LVI	WATER	DONE	U				

Comments:

WG1891419-3 WG1891419-2

ALPHA ANALYTICAL LABORATORIES, INC.

Alpha WORK GROUP REPORT (wk02)

Nov 04 2024, 10:09 am

Work Group: WG1892048 for Department: 2 Organic Preparation

Created: 04-MAR-24 Due: Operator: LJO

Sample	Client ID	C	Product	Matrix	Stat	UA	HOLD	DUE	PR	Location
L2410516-04	BM-1-EQB-MACRO 0227	C	NYTCL-8270-LVI	WATER	DONE	U	0305	0318	S0	Amber-A.25
L2410579-04	MW-4D	C	NYTCL-8270-LVI	WATER	DONE	U	0305	0305	S0	Amber-A.25
L2410579-05	MW-5S	C	NYTCL-8270-LVI	WATER	DONE	U	0305	0305	S0	Amber-A.25
L2410579-08	MW-8S	C	NYTCL-8270-LVI	WATER	DONE	U	0305	0305	S0	Amber-A.25
L2410579-10	EB	C	NYTCL-8270-LVI	WATER	DONE	U	0305	0305	S0	Amber-A.25
L2410677-01	GW_03	C	NYTCL-8270-LVI	WATER	DONE	U	0306	0306	S0	Amber-A.25
L2410677-02	DUP_022824	C	NYTCL-8270-LVI	WATER	DONE	U	0306	0306	S0	Amber-A.25
L2410677-03	FIELD BLANK	C	NYTCL-8270-LVI	WATER	DONE	U	0306	0306	S0	Amber-A.25
L2410812-01	RRW-VO-MW-01-022824	C	NYTCL-8270-LVI	WATER	DONE	U	0306	0306	S0	Amber-A.25
L2410812-02	RRW-VO-MW-03-022824	C	NYTCL-8270-LVI	WATER	DONE	U	0306	0306	S0	Amber-A.25
L2410812-03	RRW-VO-MW-04-022824	C	NYTCL-8270-LVI	WATER	DONE	U	0306	0306	S0	Amber-A.25
L2410812-04	RRW-VO-MW-05-022824	C	NYTCL-8270-LVI	WATER	DONE	U	0306	0306	S0	Amber-A.25
L2410867-01	SAMPLE 13 (118000)	C	NYTCL-8270-LVI	WATER	DONE	U	0306	0306	S0	Amber-A.25
L2410868-01	MW-01	C	NYTCL-8270-LVI	WATER	DONE	U	0306	0306	S0	Amber-A.25
L2410868-02	DUPE-04	C	NYTCL-8270-LVI	WATER	DONE	U	0306	0306	S0	Amber-A.25
WG1892048-1	Laboratory Method Bl	S	NYTCL-8270-LVI	WATER	DONE	U				
WG1892048-2	Laboratory Control S	S	NYTCL-8270-LVI	WATER	DONE	U				
WG1892048-3	LCS Duplicate	S	NYTCL-8270-LVI	WATER	DONE	U				
WG1892048-4	Matrix Spike	S	NYTCL-8270-LVI	WATER	DONE	U				
WG1892048-5	Matrix Spike Duplica	S	NYTCL-8270-LVI	WATER	DONE	U				
WG1892048-6	Matrix Spike	S	NYTCL-8270-LVI	WATER	DONE	U				
WG1892048-7	Matrix Spike Duplica	S	NYTCL-8270-LVI	WATER	DONE	U				
WG1892048-8	Matrix Spike	S	NYTCL-8270-LVI	WATER	DONE	U				
WG1892048-9	Matrix Spike Duplica	S	NYTCL-8270-LVI	WATER	DONE	U				

Comments:

WG1892048-3	WG1892048-2
WG1892048-4	L2410579-08
WG1892048-5	L2410579-08
WG1892048-6	L2410677-01
WG1892048-7	L2410677-01
WG1892048-8	L2410868-01
WG1892048-9	L2410868-01

Analysis log File

Total Files Reported in Log : 36
Log Generated From Directory: I:\8270\SV106\230902lviical\

No.	DATA FILE	INJ METH	SAMPLE NAME	MISC	DATE INJ'D
1	Tune1.D	ABNLVI.M	Tune1	WG1823680	9/2/2023 11:50 am
2	ABNL10.D	ABNLVI.M	IL1,32,,ABNL50 Lot# 101	WG1823680	9/2/2023 12:13 pm
3	ABNL9.D	ABNLVI.M	IL2,32,,ABNL35 Lot# 101	WG1823680	9/2/2023 12:37 pm
4	ABNL8.D	ABNLVI.M	IL3,32,,ABNL15 Lot# 101	WG1823680	9/2/2023 1:01 pm
5	ABNL7.D	ABNLVI.M	IL4,32,,ABNL10 Lot# 101	WG1823680	9/2/2023 1:24 pm
6	ABNL6.D	ABNLVI.M	IL5,32,,ABNL5 Lot# 1016	WG1823680	9/2/2023 1:48 pm
7	ABNL5.D	ABNLVI.M	IL6,32,,ABNL3 Lot# 1016	WG1823680	9/2/2023 2:12 pm
8	ABNL4.D	ABNLVI.M	IL7,32,,ABNL2 Lot# 1016	WG1823680	9/2/2023 2:36 pm
9	ABNL3.D	ABNLVI.M	IL8,32,,ABNL1 Lot# 1016	WG1823680	9/2/2023 2:59 pm
10	ABNL2.D	ABNLVI.M	IL9,32,,ABNL0.4 Lot# 10	WG1823680	9/2/2023 3:23 pm
11	ABNL1.D	ABNLVI.M	IL10,32,,ABNL0.2 Lot# 1	WG1823680	9/2/2023 3:47 pm
12	AP9L10.D	ABNLVI.M	IL1,32,,AP9L50 Lot# 100	WG1823680	9/2/2023 4:10 pm
13	AP9L9.D	ABNLVI.M	IL2,32,,AP9L35 Lot# 100	WG1823680	9/2/2023 4:34 pm
14	AP9L8.D	ABNLVI.M	IL3,32,,AP9L15 Lot# 100	WG1823680	9/2/2023 4:58 pm
15	AP9L7.D	ABNLVI.M	IL4,32,,AP9L10 Lot# 100	WG1823680	9/2/2023 5:21 pm
16	AP9L6.D	ABNLVI.M	IL5,32,,AP9L5 Lot# 1008	WG1823680	9/2/2023 5:45 pm
17	AP9L5.D	ABNLVI.M	IL6,32,,AP9L3 Lot# 1008	WG1823680	9/2/2023 6:09 pm
18	AP9L4.D	ABNLVI.M	IL7,32,,AP9L2 Lot# 1008	WG1823680	9/2/2023 6:32 pm
19	AP9L3.D	ABNLVI.M	IL8,32,,AP9L1 Lot# 1008	WG1823680	9/2/2023 6:56 pm
20	AP9L2.D	ABNLVI.M	IL9,32,,AP9L0.4 Lot# 10	WG1823680	9/2/2023 7:20 pm
21	AP9L1.D	ABNLVI.M	IL10,32,,AP9L0.2 Lot# 1	WG1823680	9/2/2023 7:43 pm
22	ABNICV.D	ABNLVI.M	CQICV1,32,,ABNICV Lot#	WG1823680	9/2/2023 8:07 pm
23	AP9ICV.D	ABNLVI.M	CQICV2,32,,AP9ICV Lot#	WG1823680	9/2/2023 8:31 pm
24	Tune2.D	ABNLVI.M	Tune2	WG1823680	9/2/2023 8:54 pm
25	ADPL10.D	ABNLVI.M	IL1,32,,ADPL50 Lot# 100	WG1823680	9/2/2023 9:18 pm
26	ADPL9.D	ABNLVI.M	IL2,32,,ADPL35 Lot# 100	WG1823680	9/2/2023 9:42 pm
27	ADPL8.D	ABNLVI.M	IL3,32,,ADPL15 Lot# 100	WG1823680	9/2/2023 10:05 pm
28	ADPL7.D	ABNLVI.M	IL4,32,,ADPL10 Lot# 100	WG1823680	9/2/2023 10:29 pm
29	ADPL6.D	ABNLVI.M	IL5,32,,ADPL5 Lot# 1009	WG1823680	9/2/2023 10:53 pm
30	ADPL5.D	ABNLVI.M	IL6,32,,ADPL3 Lot# 1009	WG1823680	9/2/2023 11:17 pm
31	ADPL4.D	ABNLVI.M	IL7,32,,ADPL2 Lot# 1009	WG1823680	9/2/2023 11:40 pm
32	ADPL2.D	ABNLVI.M	IL9,32,,ADPL0.4 Lot# 10	WG1823680	9/3/2023 12:28 am
33	ADPL3.D	ABNLVI.M	IL8,32,,ADPL1 Lot# 1009	WG1823680	9/3/2023 12:04 am
34	ADPL1.D	ABNLVI.M	IL10,32,,ADPL0.2 Lot# 1	WG1823680	9/3/2023 12:52 am
35	ADPICV.D	ABNLVI.M	CQICV3,32,,ADPICV Lot#	WG1823680	9/3/2023 1:15 am
36	Blank1.D	ABNLVI.M	LVI Instrument Blank	WG1823680	9/3/2023 1:39 am

Analysis log File

Total Files Reported in Log : 28
Log Generated From Directory: I:\8270\Dakota\240228ical\

No.	DATA FILE	INJ METH	SAMPLE NAME	MISC	DATE INJ'D
1	Tune1.D	ABNLVI.M	Tune	WG1890771	2/28/2024 8:30 pm
2	ABNL10.D	ABNLVI.M	IL1,32,,ABNL50 Lot# 105	WG1890771,,	2/28/2024 8:52 pm
3	ABNL9.D	ABNLVI.M	IL2,32,,ABNL35 Lot# 105	WG1890771,,	2/28/2024 9:14 pm
4	ABNL8.D	ABNLVI.M	IL3,32,,ABNL15 Lot# 105	WG1890771,,	2/28/2024 9:37 pm
5	ABNL7.D	ABNLVI.M	IL4,32,,ABNL10 Lot# 105	WG1890771,,	2/28/2024 9:59 pm
6	ABNL6.D	ABNLVI.M	IL5,32,,ABNL5 Lot# 1052	WG1890771,,	2/28/2024 10:22 pm
7	ABNL5.D	ABNLVI.M	IL6,32,,ABNL3 Lot# 1052	WG1890771,,	2/28/2024 10:45 pm
8	ABNL4.D	ABNLVI.M	IL7,32,,ABNL2 Lot# 1052	WG1890771,,	2/28/2024 11:07 pm
9	ABNL3.D	ABNLVI.M	IL8,32,,ABNL1 Lot# 1052	WG1890771,,	2/28/2024 11:30 pm
10	ABNL2.D	ABNLVI.M	IL9,32,,ABNL0.4 Lot# 10	WG1890771,,	2/28/2024 11:52 pm
11	APDPL10.D	ABNLVI.M	IL11,32,,APDPL50 Lot# 1	WG1890771,,	2/29/2024 12:37 am
12	ABNL1.D	ABNLVI.M	IL10,32,,ABNL0.2 Lot# 1	WG1890771,,	2/29/2024 12:15 am
13	APDPL9.D	ABNLVI.M	IL12,32,,APDPL35 Lot# 1	WG1890771,,	2/29/2024 1:00 am
14	APDPL8.D	ABNLVI.M	IL13,32,,APDPL15 Lot# 1	WG1890771,,	2/29/2024 1:23 am
15	APDPL7.D	ABNLVI.M	IL14,32,,APDPL10 Lot# 1	WG1890771,,	2/29/2024 1:45 am
16	APDPL6.D	ABNLVI.M	IL15,32,,APDPL5 Lot# 10	WG1890771,,	2/29/2024 2:08 am
17	APDPL5.D	ABNLVI.M	IL16,32,,APDPL3 Lot# 10	WG1890771,,	2/29/2024 2:30 am
18	APDPL4.D	ABNLVI.M	IL17,32,,APDPL2 Lot# 10	WG1890771,,	2/29/2024 2:53 am
19	APDPL3.D	ABNLVI.M	IL18,32,,APDPL1 Lot# 10	WG1890771,,	2/29/2024 3:15 am
20	APDPL2.D	ABNLVI.M	IL9,32,,APDPL0.4 Lot# 1	WG1890771,,	2/29/2024 3:37 am
21	APDPL1.D	ABNLVI.M	IL10,32,,ADPL0.2 Lot# 1	WG1890771,,	2/29/2024 4:00 am
22	ABNICV.D	ABNLVI.M	CQICV1,32,,ABNICV Lot#	WG1890771,,	2/29/2024 4:23 am
23	APDPICV.D	ABNLVI.M	CQICV2,32,,APDPICV Lot#	WG1890771,,	2/29/2024 4:45 am
24	Blank.D	ABNLVI.M	Instrument Blank		2/29/2024 5:07 am
25	Tune2.D	ABNLVI.M	Tune	WG1890771	2/29/2024 11:53 am
26	ABNICVa.D	ABNLVI.M	CQICV1,32,,ABNICV Lot#		2/29/2024 12:15 pm
27	APDPICVa.D	ABNLVI.M	CQICV2,32,,APDPICV Lot#	WG1890771,,	2/29/2024 12:48 pm
28	Blanka.D	ABNLVI.M	Instrument Blank		2/29/2024 1:11 pm

Dep.: GCMS
Inst: SV106
Date: **03/04/24**
Run: **Night Run**

Method
GC: 8270 FSLVI

Seq: **WG1891342**

Vial	Data File	Sample	CCAL	notes	Initials
141	DEG0304n	wg-1,32,,SV106 Degdftpp			
142	ABN0304n	wg-3,32,,ABN LVI CCV Lot # 10360			
143	AP90304n	wg-4,32,,AP9 LVI CCV Lot # 10340			
144	ADP0304n	wg-5,32,,ADP LVI CCV Lot # 10309			
1	891532-1	WG1891532-1,32,,ASK			
2	891532-2	WG1891532-2,32,,ASK			
3	891532-3	WG1891532-3,32,,ASK			
4	891534-1	WG1891534-1,32,,ASK			
5	891534-2	WG1891534-2,32,,ASK			
6	891534-3	WG1891534-3,32,,ASK			
7	10521-02	L2410521-02,32,,ASK			
8	10563-05	L2410563-05,32,,ASK			
9	10492-02	L2410492-02,32,,ASK			
10	10492-03	L2410492-03,32,,ASK			
11	892048-2	WG1892048-2,32,,gmr			
12	892048-3	WG1892048-3,32,,gmr			
13	892048-1	WG1892048-1,32,,gmr			
14	10579-04	L2410579-04,32,,gmr			
15	10579-05	L2410579-05,32,,gmr			
16	10579-08	L2410579-08,32,,gmr			
17	892048-4	WG1892048-4,32,,gmr			
18	892048-5	WG1892048-5,32,,gmr			
19	10579-10	L2410579-10,32,,gmr			
20	10485-08	L2410485-08,32,,gmr			
21	10485-11	L2410485-11,32,,gmr			
22	10485-16	L2410485-16,32,,gmr			
23	10485-17	L2410485-17,32,,gmr			
24	10485-18	L2410485-18,32,,gmr			
25	10485-19	L2410485-19,32,,gmr			
26	10485-21	L2410485-21,32,,gmr			
27	10485-22	L2410485-22,32,,gmr			gmr 03/05

Dep.: GCMS
Inst: Dakota
Date: **03/02/24**
Run:

Method
GC: 8270 FSLVI

Seq: **WG1891492**

Vial	Data File	Sample	CCAL	notes
100	DEG0302	wg-1,32,,Dakota Degdftpp		
96	ABN0302	wg-3,32,,ABN LVI CCV Lot # 10360		
97	APDP0302	wg-4,32,,APDP LVI CCCV Lot # 10573		
1	891419-1	WG1891419-1,32,,cmm		
2	891136-2	WG1891136-2,32,,RV,cmm		
3	891136-3	WG1891136-3,32,,RV,cmm		
4	890473-2	WG1890473-2,32,,RV,cmm		
5	890473-3	WG1890473-3,32,,RV,cmm		
6	891419-2	WG1891419-2,32,,cmm		
7	891419-3	WG1891419-3,32,,cmm		
8	891061-6	WG1891061-6,32,,cmm		
9	891061-7	WG1891061-7,32,,cmm		
10	09756-02	L2409756-02,32,,RE,cmm		
11	09756-04	L2409756-04,32,,RE,cmm		
12	09756-05	L2409756-05,32,,RE,cmm		
13	09756-06	L2409756-06,32,,RE,cmm		
14	09756-07	L2409756-07,32,,RE,cmm		
15	09756-08	L2409756-08,32,,RE,cmm		
16	09756-09	L2409756-09,32,,cmm		
17	09756-03	L2409756-03,32,,RE,cmm		
18	10291-03	L2410291-03,32,,cmm		
19	10291-08	L2410291-08,32,,cmm		
20	11302-01	L2411302-01,32,,R1A,cmm		
21	10285-01	L2410285-01,32,,cmm		
22	10285-02	L2410285-02,32,,cmm		
23	10285-03	L2410285-03,32,,cmm		
24	10285-04	L2410285-04,32,,cmm		
25	10285-05	L2410285-05,32,,cmm		
26	890839-5	WG1890839-5,32,,cmm		
27	890839-4	WG1890839-4,32,,cmm		
28	01337-64	L2401337-64,32,,cmm		
29	01337-71	L2401337-71,32,,cmm		cmm 3/3

Dep.: GCMS
Inst: Dakota
Date: **03/03/24**
Run:

Method
GC: 8270 FSLVI

Seq: **WG1891643**

Vial	Data File	Sample	CCAL	notes
100	DEG0303	wg-1,32,,Dakota Degdftpp		
96	ABN0303	wg-3,32,,ABN 10360 HNY0222A		
97	APDP0303	wg-4,32,,APDP 10537 mrg0229A		
1	891543-1	WG1891539/41/43-1,32,,cmm		
2	891543-2	WG1891539/41/43-2,32,,cmm		
3	891543-3	WG1891539/41/43-3,32,,cmm		
4	291-03d1	L2410291-03d,32,5,RV,cmm		
5	10285-06	L2410285-06,32,,cmm		
6	10285-07	L2410285-07,32,,cmm		
7	10285-08	L2410285-08,32,,cmm		
8	10285-09	L2410285-09,32,,cmm		
9	10579-01	L2410579-01,32,,cmm		
10	10579-02	L2410579-02,32,,cmm		
11	10579-03	L2410579-03,32,,cmm		
12	10579-06	L2410579-06,32,,cmm		
13	10579-07	L2410579-07,32,,cmm		
14	10579-09	L2410579-09,32,,cmm		
15	10445-15	L2410445-15,32,,cmm		
16	10485-04	L2410485-04,32,,cmm		
17	10485-09	L2410485-09,32,,cmm		
18	10485-10	L2410485-10,32,,cmm		
19	10485-12	L2410485-12,32,,cmm		
20	10485-13	L2410485-13,32,,cmm		
21	10485-14	L2410485-14,32,,cmm		
22	10485-15	L2410485-15,32,,cmm		
23	10485-20	L2410485-20,32,,cmm		
24	10257-01	L2410257-01,32,,cmm		
25	10258-14	L2410258-14,32,,cmm		
26	10258-15	L2410258-15,32,,cmm		
27	10258-16	L2410258-16,32,,cmm		
28	10258-17	L2410258-17,32,,cmm		HNY - ¾

ORGANIC ELN REPORT

Workgroup: WG1891419

Prep Method: EPA 3510C
Solvent Type: DCM
Surrogate Type: ABN
Spike Type: ABN
Spike Verify by: RET
Lims Spikelot: 8270-LVI

Lot #: EH976
Lot #: 10557e-080624,
Lot #: 10433l-061724, 10470o-07132

Additional Reagents/Stds

H2SO4	A021724
Na2SO4	23F1561004
NaOH	10NNaOH021724

Conc.Method: Buchi
Solvent Type: DCM
Lot #: EH976

Additional Reagents/Stds

Cleanup 1

Cleanup Method 1:
Cleanup Method 2:
Solvent Type:
Lot #:

Additional Reagents/Stds

Sample/ Type	Extraction: Extract Date	Analyst	Sample Vol ml	Ph	Surr Amt ml	Spike Amt ml	Concentration: Conc Date	Analyst	Final Vol ml	Conc Unit
L2410285-01 SAMP	03/02/24 07:20	Ryan Trenholm	275	<2,>12	1		03/02/24 10:29	Caroline Doiron	1	H
L2410285-02 SAMP	03/02/24 07:20	Ryan Trenholm	275	<2,>12	1		03/02/24 10:59	Caroline Doiron	1	H
L2410285-03 SAMP	03/02/24 07:20	Ryan Trenholm	275	<2,>12	1		03/02/24 10:59	Caroline Doiron	1	H
L2410285-04 SAMP	03/02/24 07:20	Ryan Trenholm	275	<2,>12	1		03/02/24 10:59	Caroline Doiron	1	H
L2410285-05 SAMP	03/02/24 07:20	Ryan Trenholm	275	<2,>12	1		03/02/24 10:59	Caroline Doiron	1	H
L2410285-06 SAMP	03/02/24 07:20	Ryan Trenholm	275	<2,>12	1		03/02/24 13:47	Caroline Doiron	1	H
L2410285-07 SAMP	03/02/24 07:20	Ryan Trenholm	275	<2,>12	1		03/02/24 13:47	Caroline Doiron	1	H

Reported: 04-NOV-24 10:09 AM

ORGANIC ELN REPORT

Workgroup: WG1891419

Sample/ Type	Extraction						Concentration			
	Extract Date	Analyst	Sample Vol **ml**	Ph	Surr Amt **ml**	Spike Amt **ml**	Conc Date	Analyst	Final Vol **ml**	Conc Unit
L2410285-08 SAMP	03/02/24 07:20	Ryan Trenholm	275	<2,>12	1		03/02/24 13:47	Caroline Doiron	1	H
L2410285-09 SAMP	03/02/24 07:20	Ryan Trenholm	275	<2,>12	1		03/02/24 13:47	Caroline Doiron	1	H
L2410579-01 WATER	03/02/24 09:11	Ryan Trenholm	275	<2,>12	1		03/02/24 13:59	Caroline Doiron	1	M
L2410579-02 WATER	03/02/24 09:11	Ryan Trenholm	275	<2,>12	1		03/02/24 13:47	Caroline Doiron	1	M
L2410579-03 WATER	03/02/24 09:11	Ryan Trenholm	275	<2,>12	1		03/02/24 13:47	Caroline Doiron	1	M
L2410579-06 WATER	03/02/24 09:11	Ryan Trenholm	275	<2,>12	1		03/02/24 13:47	Caroline Doiron	1	M
L2410579-07 WATER	03/02/24 09:11	Ryan Trenholm	275	<2,>12	1		03/02/24 13:59	Caroline Doiron	1	M
L2410579-09 WATER	03/02/24 09:11	Ryan Trenholm	275	<2,>12	1		03/02/24 13:47	Caroline Doiron	1	M
WG1891419-1 BLANK	03/02/24 07:20	Ryan Trenholm	275	<2,>12	1		03/02/24 10:29	Caroline Doiron	1	H
	WG1891420, WG1891519									
WG1891419-2 LCS	03/02/24 07:20	Ryan Trenholm	275	<2,>12	1	1	03/02/24 10:59	Caroline Doiron	1	H
	WG1891420, WG1891519									

Reported: 04-NOV-24 10:09 AM

ORGANIC ELN REPORT

Workgroup: WG1891419

Sample/ Type	Extraction						Concentration			
	Extract Date	Analyst	Sample Vol **ml**	Ph	Surr Amt **ml**	Spike Amt **ml**	Conc Date	Analyst	Final Vol **ml**	Conc Unit
WG1891419-3 LCSD	03/02/24 07:20	Ryan Trenholm	275	<2,>12	1	1	03/02/24 10:59	Caroline Doiron	1	H
	WG1891420, WG1891519									

Reported: 04-NOV-24 10:09 AM

ORGANIC ELN REPORT

Workgroup: WG1892048

Prep Method: EPA 3510C
Solvent Type: DCM **Lot #:** EH976
Surrogate Type: ABN **Lot #:** 10557x-080624, 10557h-08062
Spike Type: ABN **Lot #:** 10560x-081724, 10470n-07132
Spike Verify by: LJO, ZCH, NBD
Lims Spikelot: 8270-LVI

Additional Reagents/Stds

H2SO4	A021724
Na2SO4	23F1561004
NaOH	10NNaOH021724

Conc.Method: Buchi
Solvent Type: DCM
Lot #: EH976

Additional Reagents/Stds

Cleanup 1

Cleanup Method 1:
Cleanup Method 2:
Solvent Type: **Lot #:**

Additional Reagents/Stds

Sample/ Type	Extraction: Extract Date	Analyst	Sample Vol ml	Ph	Surr Amt ml	Spike Amt ml	Concentration: Conc Date	Analyst	Final Vol ml	Conc Unit
L2410516-04 WATER	03/05/24 11:48	Nicholas Dunn	275	<2, >12	1		03/05/24 18:05	Leslie Castanos	1	M
	10557n-080624,									
L2410579-04 WATER	03/04/24 19:24	Luke O'Donnell	275	<2, >12	1		03/05/24 01:38	Alaina Ohara-Cruz	1	H
L2410579-05 WATER	03/04/24 19:24	Luke O'Donnell	275	<2, >12	1		03/05/24 01:38	Alaina Ohara-Cruz	1	H
L2410579-08 WATER	03/04/24 19:24	Luke O'Donnell	275	<2, >12	1		03/05/24 01:38	Alaina Ohara-Cruz	1	H
L2410579-10 WATER	03/04/24 19:24	Luke O'Donnell	275	<2, >12	1		03/05/24 01:38	Alaina Ohara-Cruz	1	H
L2410677-01 WATER	03/05/24 07:39	Michael Daring	275	<2, >12	1		03/05/24 11:54	Ashley Busold	1	H
	MIS-SPIKED, REDONE 10557h-080624									

Reported: 04-NOV-24 10:09 AM

ORGANIC ELN REPORT

Workgroup: WG1892048

Sample/ Type	Extraction						Concentration			
	Extract Date	Analyst	Sample Vol ml	Ph	Surr Amt ml	Spike Amt ml	Conc Date	Analyst	Final Vol ml	Conc Unit
L2410677-02 WATER	03/05/24 07:39	Michael Daring	275	<2, >12	1		03/05/24 11:54	Ashley Busold	1	H
	10557h-080624									
L2410677-03 WATER	03/05/24 07:39	Michael Daring	275	<2, >12	1		03/05/24 11:54	Ashley Busold	1	H
	10557h-080624									
L2410812-01 WATER	03/05/24 11:41	Nicholas Dunn	275	<2, >12	1		03/05/24 18:05	Leslie Castanos	1	H
	10557n-080624,									
L2410812-02 WATER	03/05/24 11:41	Nicholas Dunn	275	<2, >12	1		03/05/24 18:05	Leslie Castanos	1	H
	10557n-080624,									
L2410812-03 WATER	03/05/24 11:41	Nicholas Dunn	275	<2, >12	1		03/05/24 18:05	Leslie Castanos	1	H
	10557n-080624,									
L2410812-04 WATER	03/05/24 11:41	Nicholas Dunn	275	<2, >12	1		03/05/24 18:05	Leslie Castanos	1	H
	10557n-080624,									
L2410812-05					1					
L2410812-06					1					
L2410867-01 SAMP	03/05/24 11:41	Nicholas Dunn	275	<2, >12	1		03/05/24 18:05	Leslie Castanos	1	H
	10557n-080624,									
L2410868-01 WATER	03/05/24 11:41	Nicholas Dunn	275	<2, >12	1		03/05/24 18:05	Leslie Castanos	1	H
	10557n-080624,									

ORGANIC ELN REPORT

Workgroup: WG1892048

Sample/ Type	Extraction						Concentration			
	Extract Date	Analyst	Sample Vol ml	Ph	Surr Amt ml	Spike Amt ml	Conc Date	Analyst	Final Vol ml	Conc Unit
L2410868-02 WATER	03/05/24 11:41	Nicholas Dunn	275	<2, >12	1		03/05/24 18:05	Leslie Castanos	1	H
	10557n-080624,									
WG1892048-1 BLANK	03/04/24 19:24	Luke O'Donnell	275	<2, >12	1		03/05/24 01:38	Alaina Ohara-Cruz	1	H
	COMBO WITH WG1892049									
WG1892048-2 LCS	03/04/24 19:24	Luke O'Donnell	275	<2, >12	1	1	03/05/24 01:38	Alaina Ohara-Cruz	1	H
WG1892048-3 LCSD	03/04/24 19:24	Luke O'Donnell	275	<2, >12	1	1	03/05/24 01:38	Alaina Ohara-Cruz	1	H
WG1892048-4 MS	03/04/24 19:24	Luke O'Donnell	275	<2, >12	1	1	03/05/24 01:38	Alaina Ohara-Cruz	1	H
WG1892048-5 MSD	03/04/24 19:24	Luke O'Donnell	275	<2, >12	1	1	03/05/24 01:38	Alaina Ohara-Cruz	1	H
WG1892048-6 MS	03/05/24 07:39	Michael Daring	275	<2, >12	1	1	03/05/24 11:54	Ashley Busold	1	H
	10557h-080624									
WG1892048-7 MSD	03/05/24 07:39	Michael Daring	275	<2, >12	1	1	03/05/24 11:54	Ashley Busold	1	H
	10557h-080624									
WG1892048-8 MS	03/05/24 11:41	Nicholas Dunn	275	<2, >12	1	1	03/05/24 18:05	Leslie Castanos	1	M
	10557n-080624,10560t-081724,									

Reported: 04-NOV-24 10:09 AM

ORGANIC ELN REPORT

Workgroup: WG1892048

Sample/ Type	Extraction						Concentration			
	Extract Date	Analyst	Sample Vol **ml**	Ph	Surr Amt **ml**	Spike Amt **ml**	Conc Date	Analyst	Final Vol **ml**	Conc Unit
WG1892048-9 MSD	03/05/24 11:41	Nicholas Dunn	275	<2, >12	1	1	03/05/24 18:05	Leslie Castanos	1	M
	10557n-080624,10560t-081724,									

Reported: 04-NOV-24 10:09 AM

Semivolatiles Data
by Method 8270D-SIM

Semivolatiles QC Summary

Surrogate Recovery Summary
Form 2
Semivolatiles

Client: Alpha Geoscience
Project Name: HUNTINGTON READY MIX

Lab Number: L2410579
Project Number: 20116
Matrix: Water

CLIENT ID (LAB SAMPLE NO.)	S1 (2FP)	S2 (PHL)	S3 (NBZ)	S4 (FBP)	S5 (TBP)	S6 (TPH)	TOT OUT
MW-1S (L2410579-01RE)	59	50	85	74	89	57	0
MW-1S (L2410579-01)	57	51	82	73	106	90	0
MW-2S (L2410579-02)	67	64	96	89	111	107	0
MW-3S (L2410579-03)	65	57	94	83	102	100	0
MW-4D (L2410579-04)	52	45	71	63	67	54	0
MW-5S (L2410579-05RE)	48	41	68	59	60	52	0
MW-5S (L2410579-05)	48	45	73	67	66	84	0
MW-6D (L2410579-06)	56	47	67	57	76	60	0
MW-6D (L2410579-06RE)	64	56	85	79	101	91	0
MW-7S (L2410579-07)	59	49	71	62	76	65	0
MW-8S (L2410579-08)	56	50	80	75	94	84	0
DUP (L2410579-09)	57	53	82	75	93	86	0
EB (L2410579-10)	57	54	87	79	76	91	0
WG1891420-1BLANK	53	49	71	68	90	76	0
WG1891420-2LCS	58	55	75	64	91	75	0
WG1891420-3LCSD	61	55	78	66	88	73	0
WG1892049-1BLANK	54	51	86	76	73	84	0
WG1892049-2LCS	57	48	66	60	79	54	0
WG1892049-3LCSD	62	53	75	65	83	55	0
MW-8SMS	60	56	77	66	86	73	0
MW-8SMSD	53	49	72	61	86	74	0
WG1892407-1BLANK	47	38	59	54	52	39*	1
WG1892407-2LCS	59	52	68	55	71	47	0
WG1892407-3LCSD	59	52	70	59	74	48	0

QC LIMITS

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

*** Values outside of QC limits**

Laboratory Control Sample Summary
Form 3
Semivolatiles

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Matrix (Level)	: WATER (LOW)		
LCS Sample ID	: WG1891420-2 Analysis Date : 03/03/24 16:57	**File ID**	: 891420-2
LCSD Sample ID	: WG1891420-3 Analysis Date : 03/03/24 17:14	**File ID**	: 891420-3

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	True (ug/l)	Found (ug/l)	%R	True (ug/l)	Found (ug/l)	%R	RPD	Recovery Limits	RPD Limit
Acenaphthene	18	11	63	18	12	67	6	40-140	40
2-Chloronaphthalene	18	12	65	18	12	67	3	40-140	40
Fluoranthene	18	14	75	18	14	75	0	40-140	40
Hexachlorobutadiene	18	10	55	18	10	57	4	40-140	40
Naphthalene	18	11	60	18	12	64	6	40-140	40
Benzo(a)anthracene	18	12	65	18	12	67	3	40-140	40
Benzo(a)pyrene	18	12	68	18	13	69	1	40-140	40
Benzo(b)fluoranthene	18	12	68	18	13	70	3	40-140	40
Benzo(k)fluoranthene	18	13	73	18	13	74	1	40-140	40
Chrysene	18	12	64	18	12	65	2	40-140	40
Acenaphthylene	18	13	70	18	13	71	1	40-140	40
Anthracene	18	12	66	18	12	68	3	40-140	40
Benzo(ghi)perylene	18	12	64	18	12	67	5	40-140	40
Fluorene	18	13	70	18	13	72	3	40-140	40
Phenanthrene	18	11	62	18	12	64	3	40-140	40
Dibenzo(a,h)anthracene	18	13	70	18	13	73	4	40-140	40
Indeno(1,2,3-cd)pyrene	18	12	67	18	13	70	4	40-140	40
Pyrene	18	14	76	18	14	75	1	40-140	40
2-Methylnaphthalene	18	11	63	18	12	65	3	40-140	40
Pentachlorophenol	18	11	60	18	11	60	0	40-140	40
Hexachlorobenzene	18	11	63	18	12	63	0	40-140	40
Hexachloroethane	18	10	56	18	10	58	4	40-140	40

Laboratory Control Sample Summary
Form 3
Semivolatiles

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Matrix (Level)	: WATER (LOW)		
LCS Sample ID	: WG1892049-2 **Analysis Date** : 03/05/24 14:38	**File ID**	: 892049-2
LCSD Sample ID	: WG1892049-3 **Analysis Date** : 03/05/24 15:28	**File ID**	: 92049-3r

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	True (ug/l)	Found (ug/l)	%R	True (ug/l)	Found (ug/l)	%R	RPD	Recovery Limits	RPD Limit
Acenaphthene	18	12	64	18	13	71	10	40-140	40
2-Chloronaphthalene	18	11	60	18	12	67	11	40-140	40
Fluoranthene	18	12	65	18	12	69	6	40-140	40
Hexachlorobutadiene	18	12	65	18	13	70	7	40-140	40
Naphthalene	18	11	60	18	12	68	13	40-140	40
Benzo(a)anthracene	18	15	83	18	16	89	7	40-140	40
Benzo(a)pyrene	18	13	70	18	14	75	7	40-140	40
Benzo(b)fluoranthene	18	13	72	18	14	77	7	40-140	40
Benzo(k)fluoranthene	18	13	72	18	14	75	4	40-140	40
Chrysene	18	14	76	18	15	83	9	40-140	40
Acenaphthylene	18	11	61	18	12	68	11	40-140	40
Anthracene	18	13	70	18	14	75	7	40-140	40
Benzo(ghi)perylene	18	13	71	18	14	79	11	40-140	40
Fluorene	18	12	66	18	13	72	9	40-140	40
Phenanthrene	18	12	68	18	13	73	7	40-140	40
Dibenzo(a,h)anthracene	18	13	72	18	14	79	9	40-140	40
Indeno(1,2,3-cd)pyrene	18	14	78	18	16	87	11	40-140	40
Pyrene	18	12	64	18	12	68	6	40-140	40
2-Methylnaphthalene	18	11	59	18	12	66	11	40-140	40
Pentachlorophenol	18	7.2	40	18	7.8	43	7	40-140	40
Hexachlorobenzene	18	12	68	18	13	73	7	40-140	40
Hexachloroethane	18	11	59	18	11	63	7	40-140	40

Laboratory Control Sample Summary
Form 3
Semivolatiles

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Matrix (Level)	: WATER (LOW)		
LCS Sample ID	: WG1892407-2 Analysis Date : 03/06/24 08:00	**File ID**	: 892407-2
LCSD Sample ID	: WG1892407-3 Analysis Date : 03/06/24 08:16	**File ID**	: 892407-3

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	True (ug/l)	Found (ug/l)	%R	True (ug/l)	Found (ug/l)	%R	RPD	Recovery Limits	RPD Limit
Acenaphthene	18	11	59	18	11	61	3	40-140	40
2-Chloronaphthalene	18	10	58	18	11	60	3	40-140	40
Fluoranthene	18	10	57	18	11	58	2	40-140	40
Hexachlorobutadiene	18	11	62	18	11	63	2	40-140	40
Naphthalene	18	11	59	18	11	60	2	40-140	40
Benzo(a)anthracene	18	13	70	18	13	73	4	40-140	40
Benzo(a)pyrene	18	11	60	18	11	62	3	40-140	40
Benzo(b)fluoranthene	18	12	65	18	12	67	3	40-140	40
Benzo(k)fluoranthene	18	11	61	18	12	63	3	40-140	40
Chrysene	18	12	64	18	12	67	5	40-140	40
Acenaphthylene	18	11	60	18	11	62	3	40-140	40
Anthracene	18	11	60	18	11	62	3	40-140	40
Benzo(ghi)perylene	18	9.6	53	18	10	56	6	40-140	40
Fluorene	18	11	60	18	11	62	3	40-140	40
Phenanthrene	18	10	58	18	11	60	3	40-140	40
Dibenzo(a,h)anthracene	18	9.7	53	18	10	56	6	40-140	40
Indeno(1,2,3-cd)pyrene	18	11	61	18	12	63	3	40-140	40
Pyrene	18	10	56	18	10	58	4	40-140	40
2-Methylnaphthalene	18	10	58	18	11	60	3	40-140	40
Pentachlorophenol	18	11	62	18	11	62	0	40-140	40
Hexachlorobenzene	18	10	57	18	11	59	3	40-140	40
Hexachloroethane	18	11	60	18	11	60	0	40-140	40

Matrix Spike Sample Summary
Form 3
Semivolatiles

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Client Sample ID	: MW-8S	**Matrix (Level)**	: WATER (LOW)
Lab Sample ID	: L2410579-08	**Analysis Date**	: 03/05/24 11:54
Matrix Spike	: WG1892049-4	**MS Analysis Date**	: 03/05/24 12:11
Matrix Spike Dup	: WG1892049-5	**MSD Analysis Date**	: 03/05/24 12:28

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	Sample Conc. (ug/l)	Spike Added (ug/l)	Spike Conc. (ug/l)	%R	Spike Added (ug/l)	Spike Conc. (ug/l)	%R	RPD	Recovery Limits	RPD Limit
Acenaphthene	0.06J	18.2	12	66	18.2	11	61	9	40-140	40
2-Chloronaphthalene	ND	18.2	12	66	18.2	11	61	9	40-140	40
Fluoranthene	0.02J	18.2	14	77	18.2	13	72	7	40-140	40
Hexachlorobutadiene	ND	18.2	10	55	18.2	9.2	51	8	40-140	40
Naphthalene	3.2	18.2	11	43	18.2	10	37 Q	10	40-140	40
Benzo(a)anthracene	ND	18.2	13	72	18.2	12	66	8	40-140	40
Benzo(a)pyrene	ND	18.2	13	72	18.2	13	72	0	40-140	40
Benzo(b)fluoranthene	ND	18.2	13	72	18.2	12	66	8	40-140	40
Benzo(k)fluoranthene	ND	18.2	14	77	18.2	14	77	0	40-140	40
Chrysene	ND	18.2	12	66	18.2	12	66	0	40-140	40
Acenaphthylene	0.03J	18.2	13	72	18.2	12	66	8	40-140	40
Anthracene	ND	18.2	13	72	18.2	12	66	8	40-140	40
Benzo(ghi)perylene	ND	18.2	14	77	18.2	14	77	0	40-140	40
Fluorene	0.06J	18.2	13	72	18.2	12	66	8	40-140	40
Phenanthrene	0.05J	18.2	12	66	18.2	12	66	0	40-140	40
Dibenzo(a,h)anthracene	ND	18.2	15	83	18.2	15	83	0	40-140	40
Indeno(1,2,3-cd)pyrene	ND	18.2	16	88	18.2	15	83	6	40-140	40
Pyrene	ND	18.2	14	77	18.2	14	77	0	40-140	40
2-Methylnaphthalene	0.31	18.2	12	64	18.2	11	59	9	40-140	40
Pentachlorophenol	ND	18.2	14	77	18.2	13	72	7	40-140	40
Hexachlorobenzene	ND	18.2	12	66	18.2	11	61	9	40-140	40
Hexachloroethane	ND	18.2	10	55	18.2	9.3	51	7	40-140	40

Method Blank Summary
Form 4
Semivolatiles

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab Sample ID	: WG1891420-1	**Lab File ID**	: 891420-1
Instrument ID	: SV128	**Extraction Date**	: 03/02/24
Matrix	: WATER	**Analysis Date**	: 03/03/24 17:30
Level	: LOW		

Client Sample No.	Lab Sample ID	Analysis Date
WG1891420-2LCS	WG1891420-2	03/03/24 16:57
WG1891420-3LCSD	WG1891420-3	03/03/24 17:14
MW-6D	L2410579-06	03/04/24 14:36
MW-7S	L2410579-07	03/04/24 14:53
MW-1S	L2410579-01	03/05/24 09:58

Method Blank Summary
Form 4
Semivolatiles

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab Sample ID	: WG1892049-1	**Lab File ID**	: 892049-1
Instrument ID	: SV128	**Extraction Date**	: 03/04/24
Matrix	: WATER	**Analysis Date**	: 03/05/24 09:41
Level	: LOW		

Client Sample No.	Lab Sample ID	Analysis Date
MW-2S	L2410579-02	03/05/24 10:15
MW-3S	L2410579-03	03/05/24 10:31
MW-5S	L2410579-05	03/05/24 11:05
MW-6D	L2410579-06RE	03/05/24 11:38
MW-8S	L2410579-08	03/05/24 11:54
MW-8SMS	WG1892049-4	03/05/24 12:11
MW-8SMSD	WG1892049-5	03/05/24 12:28
DUP	L2410579-09	03/05/24 13:34
EB	L2410579-10	03/05/24 13:51
WG1892049-2LCS	WG1892049-2	03/05/24 14:38
WG1892049-3LCSD	WG1892049-3	03/05/24 15:28
MW-1S	L2410579-01RE	03/06/24 03:39

Method Blank Summary
Form 4
Semivolatiles

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab Sample ID	: WG1892407-1	**Lab File ID**	: 892407-1
Instrument ID	: SV119	**Extraction Date**	: 03/05/24
Matrix	: WATER	**Analysis Date**	: 03/06/24 07:43
Level	: LOW		

Client Sample No.	Lab Sample ID	Analysis Date
WG1892407-2LCS	WG1892407-2	03/06/24 08:00
WG1892407-3LCSD	WG1892407-3	03/06/24 08:16
MW-4D	L2410579-04	03/06/24 08:33
MW-5S	L2410579-05RE	03/06/24 08:49

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

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Instrument ID	: SV119	**Analysis Date**	: 12/07/23 12:42
Tune Standard	: R1772537-1	**Tune File ID**	: TUNE_tune

m/e	Ion Abundance Criteria	%Relative Abundance
51	10.0 - 80.0% of Base Peak	48.2
68	Less than 2.0% of mass 69	0.6 (1.5)1
69		100
70	Less than 2.0% of mass 69	0.2 (.6)1
127	10.0 - 80.0% of Base Peak	53.2
197	Less than 2.0% of mass 198	0
198	Base Peak, or >50% of mass 442	100
199	5.0 - 9.0% of mass 198	6.8
275	10.0 - 60.0% of Base Peak	27.9
365	Greater than 1.0% of mass 198	2.5
441	Present, but less than 24% of mass 442	18.2
442	Base Peak, or >50% of mass 198	86.2
443	15.0 - 24.0% of mass 442	16.1 (18.7)2

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

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

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
IL10	R1772537-3	IL10	12/07/23 13:10
IL9	R1772537-11	IL9	12/07/23 13:27
IL8	R1772537-10	IL8	12/07/23 13:46
IL7	R1772537-9	IL7	12/07/23 14:03
IL6	R1772537-8	IL6	12/07/23 14:20
IL5	R1772537-7	IL5	12/07/23 14:36
IL4	R1772537-6	IL4	12/07/23 14:53
IL3	R1772537-5	IL3	12/07/23 15:09
IL2	R1772537-4	IL2	12/07/23 15:26
IL1	R1772537-2	IL1	12/07/23 15:42
ICV Quant Report	R1772537-12	ICV	12/07/23 15:59

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

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Instrument ID	: SV119	**Analysis Date**	: 03/04/24 07:19
Tune Standard	: WG1891805-1	**Tune File ID**	: deg0304_tune

m/e	Ion Abundance Criteria	%Relative Abundance
51	10.0 - 80.0% of Base Peak	41
68	Less than 2.0% of mass 69	0.5 (1.6)1
69		100
70	Less than 2.0% of mass 69	0 (0)1
127	10.0 - 80.0% of Base Peak	45.7
197	Less than 2.0% of mass 198	1.2
198	Base Peak, or >50% of mass 442	100
199	5.0 - 9.0% of mass 198	7.9
275	10.0 - 60.0% of Base Peak	21.6
365	Greater than 1.0% of mass 198	2.2
441	Present, but less than 24% of mass 442	18
442	Base Peak, or >50% of mass 198	63.7
443	15.0 - 24.0% of mass 442	11.9 (18.6)2

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

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

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
WG1891805-4TFACTOR-B	WG1891805-4	DEG0304	03/04/24 07:19
WG1891805-5TFACTOR-P	WG1891805-5	DEG0304	03/04/24 07:19
WG1891805-3CCAL	WG1891805-3	CCV0304	03/04/24 07:40
MW-6D	L2410579-06	10579-06	03/04/24 14:36
MW-7S	L2410579-07	10579-07	03/04/24 14:53

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

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Instrument ID	: SV119	**Analysis Date**	: 03/05/24 06:14
Tune Standard	: WG1892203-1	**Tune File ID**	: deg0305_tune

m/e	Ion Abundance Criteria	%Relative Abundance
51	10.0 - 80.0% of Base Peak	43.3
68	Less than 2.0% of mass 69	0.5 (1.4)1
69		100
70	Less than 2.0% of mass 69	0.4 (1)1
127	10.0 - 80.0% of Base Peak	47.4
197	Less than 2.0% of mass 198	0.6
198	Base Peak, or >50% of mass 442	100
199	5.0 - 9.0% of mass 198	7
275	10.0 - 60.0% of Base Peak	21.4
365	Greater than 1.0% of mass 198	2.3
441	Present, but less than 24% of mass 442	18.4
442	Base Peak, or >50% of mass 198	54.7
443	15.0 - 24.0% of mass 442	11 (20.2)2

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

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

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
WG1892203-4TFACTOR-B	WG1892203-4	DEG0305	03/05/24 06:14
WG1892203-5TFACTOR-P	WG1892203-5	DEG0305	03/05/24 06:14
WG1892203-3CCAL	WG1892203-3	CCV0305	03/05/24 06:33
WG1892049-2LCS	WG1892049-2	892049-2	03/05/24 14:38
WG1892049-3LCSD	WG1892049-3	92049-3R	03/05/24 15:28

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

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Instrument ID	: SV119	**Analysis Date**	: 03/05/24 21:00
Tune Standard	: WG1892573-1	**Tune File ID**	: deg0305n_tune

m/e	Ion Abundance Criteria	%Relative Abundance
51	10.0 - 80.0% of Base Peak	45.2
68	Less than 2.0% of mass 69	0.6 (1.7)1
69		100
70	Less than 2.0% of mass 69	0.2 (.6)1
127	10.0 - 80.0% of Base Peak	49.2
197	Less than 2.0% of mass 198	0.5
198	Base Peak, or >50% of mass 442	100
199	5.0 - 9.0% of mass 198	7.9
275	10.0 - 60.0% of Base Peak	23.8
365	Greater than 1.0% of mass 198	2.7
441	Present, but less than 24% of mass 442	17.5
442	Base Peak, or >50% of mass 198	67.7
443	15.0 - 24.0% of mass 442	11 (16.3)2

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

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

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
WG1892573-4TFACTOR-B	WG1892573-4	DEG0305N	03/05/24 21:00
WG1892573-5TFACTOR-P	WG1892573-5	DEG0305N	03/05/24 21:00
WG1892573-3CCAL	WG1892573-3	CCV0305N	03/05/24 21:16
MW-1S	L2410579-01RE	10579-01	03/06/24 03:39

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

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Instrument ID	: SV119	**Analysis Date**	: 03/06/24 06:37
Tune Standard	: WG1892736-1	**Tune File ID**	: deg0306_tune

m/e	Ion Abundance Criteria	%Relative Abundance
51	10.0 - 80.0% of Base Peak	43.1
68	Less than 2.0% of mass 69	0.6 (1.7)1
69		100
70	Less than 2.0% of mass 69	0 (0)1
127	10.0 - 80.0% of Base Peak	45.1
197	Less than 2.0% of mass 198	0.4
198	Base Peak, or >50% of mass 442	100
199	5.0 - 9.0% of mass 198	6.8
275	10.0 - 60.0% of Base Peak	25.6
365	Greater than 1.0% of mass 198	2.4
441	Present, but less than 24% of mass 442	16.7
442	Base Peak, or >50% of mass 198	68.6
443	15.0 - 24.0% of mass 442	11.3 (16.5)2

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

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

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
WG1892736-4TFACTOR-B	WG1892736-4	DEG0306	03/06/24 06:37
WG1892736-5TFACTOR-P	WG1892736-5	DEG0306	03/06/24 06:37
WG1892736-3CCAL	WG1892736-3	CCV0306	03/06/24 06:56
WG1892407-1BLANK	WG1892407-1	892407-1	03/06/24 07:43
WG1892407-2LCS	WG1892407-2	892407-2	03/06/24 08:00
WG1892407-3LCSD	WG1892407-3	892407-3	03/06/24 08:16
MW-4D	L2410579-04	10579-04	03/06/24 08:33
MW-5S	L2410579-05RE	10579-05	03/06/24 08:49

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

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Instrument ID	: SV128	**Analysis Date**	: 12/11/23 13:03
Tune Standard	: R1775555-1	**Tune File ID**	: TUNE_tune

m/e	Ion Abundance Criteria	%Relative Abundance
51	10.0 - 80.0% of Base Peak	44.3
68	Less than 2.0% of mass 69	0.6 (1.6)1
69		100
70	Less than 2.0% of mass 69	0.2 (.5)1
127	10.0 - 80.0% of Base Peak	50
197	Less than 2.0% of mass 198	0
198	Base Peak, or >50% of mass 442	100
199	5.0 - 9.0% of mass 198	6.8
275	10.0 - 60.0% of Base Peak	27.1
365	Greater than 1.0% of mass 198	3.6
441	Present, but less than 24% of mass 442	18.5
442	Base Peak, or >50% of mass 198	93.6
443	15.0 - 24.0% of mass 442	19.1 (20.5)2

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

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

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
IL10	R1775555-3	IL10	12/11/23 13:27
IL9	R1775555-12	IL9	12/11/23 13:44
IL8	R1775555-11	IL8	12/11/23 14:00
IL7	R1775555-10	IL7	12/11/23 14:17
IL6	R1775555-9	IL6	12/11/23 14:33
IL5	R1775555-8	IL5	12/11/23 14:50
IL4	R1775555-7	IL4	12/11/23 15:06
IL3	R1775555-6	IL3	12/11/23 15:23
IL2	R1775555-5	IL2	12/11/23 15:40

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

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Instrument ID	: SV128	**Analysis Date**	: 12/13/23 06:43
Tune Standard	: R1775555-2	**Tune File ID**	: TUNEa_tune

m/e	Ion Abundance Criteria	%Relative Abundance
51	10.0 - 80.0% of Base Peak	44.9
68	Less than 2.0% of mass 69	0.6 (1.6)1
69		100
70	Less than 2.0% of mass 69	0.1 (.3)1
127	10.0 - 80.0% of Base Peak	49.2
197	Less than 2.0% of mass 198	0
198	Base Peak, or >50% of mass 442	100
199	5.0 - 9.0% of mass 198	7
275	10.0 - 60.0% of Base Peak	26.1
365	Greater than 1.0% of mass 198	3.4
441	Present, but less than 24% of mass 442	18.3
442	Base Peak, or >50% of mass 198	93
443	15.0 - 24.0% of mass 442	17.4 (18.7)2

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

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

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
IL1a	R1775555-4	IL1A	12/13/23 07:14
ICV Quant Report	R1775555-13	ICVA	12/13/23 07:30

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

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Instrument ID	: SV128	**Analysis Date**	: 03/03/24 07:40
Tune Standard	: WG1891581-1	**Tune File ID**	: deg0303_tune

m/e	Ion Abundance Criteria	%Relative Abundance
51	10.0 - 80.0% of Base Peak	31
68	Less than 2.0% of mass 69	0.1 (.3)1
69		100
70	Less than 2.0% of mass 69	0.1 (.5)1
127	10.0 - 80.0% of Base Peak	40.7
197	Less than 2.0% of mass 198	0
198	Base Peak, or >50% of mass 442	100
199	5.0 - 9.0% of mass 198	6.6
275	10.0 - 60.0% of Base Peak	25.9
365	Greater than 1.0% of mass 198	3.3
441	Present, but less than 24% of mass 442	17.3
442	Base Peak, or >50% of mass 198	95.5
443	15.0 - 24.0% of mass 442	17.6 (18.4)2

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

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

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
WG1891581-4TFACTOR-B	WG1891581-4	DEG0303	03/03/24 07:40
WG1891581-5TFACTOR-P	WG1891581-5	DEG0303	03/03/24 07:40
WG1891581-3CCAL	WG1891581-3	CCV0303	03/03/24 07:58
WG1891420-2LCS	WG1891420-2	891420-2	03/03/24 16:57
WG1891420-3LCSD	WG1891420-3	891420-3	03/03/24 17:14
WG1891420-1BLANK	WG1891420-1	891420-1	03/03/24 17:30

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

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Instrument ID	: SV128	**Analysis Date**	: 03/05/24 06:22
Tune Standard	: WG1892213-1	**Tune File ID**	: deg0305_tune

m/e	Ion Abundance Criteria	%Relative Abundance
51	10.0 - 80.0% of Base Peak	35.7
68	Less than 2.0% of mass 69	0.2 (.5)1
69		100
70	Less than 2.0% of mass 69	0.2 (.5)1
127	10.0 - 80.0% of Base Peak	43.9
197	Less than 2.0% of mass 198	0
198	Base Peak, or >50% of mass 442	100
199	5.0 - 9.0% of mass 198	6.6
275	10.0 - 60.0% of Base Peak	25.5
365	Greater than 1.0% of mass 198	2.9
441	Present, but less than 24% of mass 442	18.1
442	Base Peak, or >50% of mass 198	77.6
443	15.0 - 24.0% of mass 442	15.2 (19.6)2

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

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

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
WG1892213-4TFACTOR-B	WG1892213-4	DEG0305	03/05/24 06:22
WG1892213-5TFACTOR-P	WG1892213-5	DEG0305	03/05/24 06:22
WG1892213-3CCAL	WG1892213-3	CCV0305A	03/05/24 06:57
WG1892049-1BLANK	WG1892049-1	892049-1	03/05/24 09:41
MW-1S	L2410579-01	10579-01	03/05/24 09:58
MW-2S	L2410579-02	10579-02	03/05/24 10:15
MW-3S	L2410579-03	10579-03	03/05/24 10:31
MW-5S	L2410579-05	10579-05	03/05/24 11:05
MW-6D	L2410579-06RE	10579-06	03/05/24 11:38
MW-8S	L2410579-08	10579-08	03/05/24 11:54
WG1892049-4MS	WG1892049-4	892049-4	03/05/24 12:11
WG1892049-5MSD	WG1892049-5	892049-5	03/05/24 12:28
DUP	L2410579-09	10579-09	03/05/24 13:34
EB	L2410579-10	10579-10	03/05/24 13:51

Internal Standard Area and RT Summary
Form 8a
Semivolatiles

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Instrument ID	: SV128	**Analysis Date**	: 03/03/24 07:58:00
Sample No	: WG1891581-3	**Lab File ID**	: CCV0303

	1,4-Dichlorobenzene-d4		Naphthalene-d8		Acenaphthene-d10	
	Area	RT	Area	RT	Area	RT
WG1891581-3	2643	2.35	9361	3.03	5723	4.03
Upper Limit	5286	2.85	18722	3.53	11446	4.53
Lower Limit	1322	1.85	4681	2.53	2862	3.53
Sample ID						
WG1891420-2 LCS	2012	2.34	8001	3.02	4798	4.02
WG1891420-3 LCSD	2150	2.34	8395	3.02	4898	4.02
WG1891420-1 BLANK	1749	2.34	6735	3.02	4683	4.02

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

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

* Values outside of QC limits

Internal Standard Area and RT Summary
Form 8a
Semivolatiles

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Instrument ID	: SV128	**Analysis Date**	: 03/03/24 07:58:00
Sample No	: WG1891581-3	**Lab File ID**	: CCV0303

	Phenanthrene-d10		Chrysene-d12		Perylene-d12	
	Area	RT	Area	RT	Area	RT
WG1891581-3	13127	4.90	12561	6.54	13889	7.93
Upper Limit	26254	5.40	25122	7.04	27778	8.43
Lower Limit	6564	4.40	6281	6.04	6945	7.43
Sample ID						
WG1891420-2 LCS	11701	4.89	12030	6.53	12690	7.92
WG1891420-3 LCSD	11545	4.89	11230	6.53	11806	7.92
WG1891420-1 BLANK	11977	4.89	12988	6.53	13876	7.92

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

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

* Values outside of QC limits

Internal Standard Area and RT Summary
Form 8a
Semivolatiles

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Instrument ID	: SV119	**Analysis Date**	: 03/04/24 07:40:00
Sample No	: WG1891805-3	**Lab File ID**	: CCV0304

	1,4-Dichlorobenzene-d4		Naphthalene-d8		Acenaphthene-d10	
	Area	RT	Area	RT	Area	RT
WG1891805-3	38923	2.15	132574	2.81	74190	3.77
Upper Limit	77846	2.65	265148	3.31	148380	4.27
Lower Limit	19462	1.65	66287	2.31	37095	3.27
Sample ID						
MW-6D	39211	2.15	137321	2.81	82656	3.78
MW-7S	34812	2.15	120766	2.81	72200	3.78

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

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

* Values outside of QC limits

Internal Standard Area and RT Summary
Form 8a
Semivolatiles

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Instrument ID	: SV119	**Analysis Date**	: 03/04/24 07:40:00
Sample No	: WG1891805-3	**Lab File ID**	: CCV0304

	Phenanthrene-d10		Chrysene-d12		Perylene-d12	
	Area	RT	Area	RT	Area	RT
WG1891805-3	161045	4.60	136086	6.15	138161	7.25
Upper Limit	322090	5.10	272172	6.65	276322	7.75
Lower Limit	80523	4.10	68043	5.65	69081	6.75
Sample ID						
MW-6D	183509	4.60	187485	6.13	197135	7.24
MW-7S	162453	4.60	173162	6.13	182815	7.23

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

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

* Values outside of QC limits

Internal Standard Area and RT Summary
Form 8a
Semivolatiles

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Instrument ID	: SV119	**Analysis Date**	: 03/05/24 06:33:00
Sample No	: WG1892203-3	**Lab File ID**	: CCV0305

	1,4-Dichlorobenzene-d4		Naphthalene-d8		Acenaphthene-d10	
	Area	RT	Area	RT	Area	RT
WG1892203-3	36011	2.14	124401	2.80	72135	3.77
Upper Limit	72022	2.64	248802	3.30	144270	4.27
Lower Limit	18006	1.64	62201	2.30	36068	3.27
Sample ID						
WG1892049-2 LCS	42106	2.15	148630	2.81	82479	3.78
WG1892049-3 LCSD	38810	2.15	137334	2.81	76438	3.77

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

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

* Values outside of QC limits

Internal Standard Area and RT Summary
Form 8a
Semivolatiles

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Instrument ID	: SV119	**Analysis Date**	: 03/05/24 06:33:00
Sample No	: WG1892203-3	**Lab File ID**	: CCV0305

	Phenanthrene-d10		Chrysene-d12		Perylene-d12	
	Area	RT	Area	RT	Area	RT
WG1892203-3	164519	4.60	159349	6.14	166959	7.25
Upper Limit	329038	5.10	318698	6.64	333918	7.75
Lower Limit	82260	4.10	79675	5.64	83480	6.75
Sample ID						
WG1892049-2 LCS	179739	4.60	131931	6.13	134237	7.23
WG1892049-3 LCSD	166634	4.60	122330	6.12	133032	7.23

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

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

* Values outside of QC limits

Internal Standard Area and RT Summary
Form 8a
Semivolatiles

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Instrument ID	: SV128	**Analysis Date**	: 03/05/24 06:57:00
Sample No	: WG1892213-3	**Lab File ID**	: CCV0305A

	1,4-Dichlorobenzene-d4		Naphthalene-d8		Acenaphthene-d10	
	Area	RT	Area	RT	Area	RT
WG1892213-3	1565	2.27	5966	2.95	4044	3.94
Upper Limit	3130	2.77	11932	3.45	8088	4.44
Lower Limit	783	1.77	2983	2.45	2022	3.44
Sample ID						
WG1892049-1 BLANK	2731	2.27	10375	2.95	6771	3.94
MW-1S	2460	2.27	9386	2.95	6149	3.94
MW-2S	2532	2.27	9511	2.95	6016	3.94
MW-3S	2510	2.27	9356	2.95	5779	3.94
MW-5S	2879	2.27	10666	2.94	6671	3.94
MW-6D	2668	2.27	10020	2.95	6388	3.94
MW-8S	2704	2.27	10046	2.95	6289	3.94
MW-8S MS	3054	2.27	11767	2.95	6530	3.94
MW-8S MSD	2708	2.27	10614	2.95	6064	3.94
DUP	2822	2.27	10447	2.95	6516	3.94
EB	2487	2.27	9236	2.95	5784	3.94

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

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

* Values outside of QC limits

Internal Standard Area and RT Summary
Form 8a
Semivolatiles

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Instrument ID	: SV128	**Analysis Date**	: 03/05/24 06:57:00
Sample No	: WG1892213-3	**Lab File ID**	: CCV0305A

	Phenanthrene-d10		Chrysene-d12		Perylene-d12	
	Area	RT	Area	RT	Area	RT
WG1892213-3	10610	4.80	12274	6.40	14188	7.70
Upper Limit	21220	5.30	24548	6.90	28376	8.20
Lower Limit	5305	4.30	6137	5.90	7094	7.20
Sample ID						
WG1892049-1 BLANK	17349	4.80	18645	6.39	21072	7.69
MW-1S	15309	4.80	15447	6.39	17964	7.69
MW-2S	14701	4.80	15308	6.39	17188	7.68
MW-3S	13801	4.80	14858	6.39	16208	7.69
MW-5S	16167	4.80	16341	6.39	18147	7.69
MW-6D	16015	4.80	16160	6.39	17655	7.69
MW-8S	15595	4.80	16223	6.39	18009	7.69
MW-8S MS	14352	4.80	13213	6.39	15912	7.69
MW-8S MSD	13809	4.80	13483	6.39	16185	7.69
DUP	16092	4.80	16449	6.39	18509	7.69
EB	14204	4.80	14544	6.39	16602	7.69

Area Upper Limit = +100% of internal standard area

Area Lower Limit = - 50% of internal standard area

RT Upper Limit = +0.50 minutes of internal standard RT

RT Lower Limit = -0.50 minutes of internal standard RT

* Values outside of QC limits

Internal Standard Area and RT Summary
Form 8a
Semivolatiles

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Instrument ID	: SV119	**Analysis Date**	: 03/05/24 21:16:00
Sample No	: WG1892573-3	**Lab File ID**	: CCV0305N

	1,4-Dichlorobenzene-d4		Naphthalene-d8		Acenaphthene-d10	
	Area	RT	Area	RT	Area	RT
WG1892573-3	38606	2.14	135686	2.80	79962	3.77
Upper Limit	77212	2.64	271372	3.30	159924	4.27
Lower Limit	19303	1.64	67843	2.30	39981	3.27
Sample ID						
MW-1S	40966	2.14	149359	2.80	90202	3.76

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

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

* Values outside of QC limits

Internal Standard Area and RT Summary
Form 8a
Semivolatiles

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Instrument ID	: SV119	**Analysis Date**	: 03/05/24 21:16:00
Sample No	: WG1892573-3	**Lab File ID**	: CCV0305N

	Phenanthrene-d10		Chrysene-d12		Perylene-d12	
	Area	RT	Area	RT	Area	RT
WG1892573-3	190107	4.60	179316	6.18	182003	7.29
Upper Limit	380214	5.10	358632	6.68	364006	7.79
Lower Limit	95054	4.10	89658	5.68	91002	6.79
Sample ID						
MW-1S	198685	4.59	162887	6.16	168617	7.28

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

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

* Values outside of QC limits

Internal Standard Area and RT Summary
Form 8a
Semivolatiles

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Instrument ID	: SV119	**Analysis Date**	: 03/06/24 06:56:00
Sample No	: WG1892736-3	**Lab File ID**	: CCV0306

	1,4-Dichlorobenzene-d4		Naphthalene-d8		Acenaphthene-d10	
	Area	RT	Area	RT	Area	RT
WG1892736-3	46268	2.13	165599	2.79	97417	3.76
Upper Limit	92536	2.63	331198	3.29	194834	4.26
Lower Limit	23134	1.63	82800	2.29	48709	3.26
Sample ID						
WG1892407-1 BLANK	45048	2.12	158352	2.78	100990	3.75
WG1892407-2 LCS	45046	2.13	166318	2.79	95229	3.76
WG1892407-3 LCSD	44583	2.13	164812	2.79	95183	3.76
MW-4D	43124	2.13	152780	2.80	88835	3.76
MW-5S	41410	2.13	147735	2.80	87325	3.76

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

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

* Values outside of QC limits

Internal Standard Area and RT Summary
Form 8a
Semivolatiles

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Instrument ID	: SV119	**Analysis Date**	: 03/06/24 06:56:00
Sample No	: WG1892736-3	**Lab File ID**	: CCV0306

	Phenanthrene-d10		Chrysene-d12		Perylene-d12	
	Area	RT	Area	RT	Area	RT
WG1892736-3	225040	4.59	198834	6.17	192010	7.29
Upper Limit	450080	5.09	397668	6.67	384020	7.79
Lower Limit	112520	4.09	99417	5.67	96005	6.79
Sample ID						
WG1892407-1 BLANK	228218	4.59	208791	6.25	205927	7.38
WG1892407-2 LCS	220430	4.59	171943	6.17	162531	7.29
WG1892407-3 LCSD	220234	4.59	166223	6.16	158396	7.27
MW-4D	193974	4.59	175912	6.16	167257	7.27
MW-5S	195862	4.59	186222	6.15	173692	7.26

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

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

* Values outside of QC limits

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

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

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Acenaphthene	83-32-9	0.1	0.035	ug/l	40-140	40	40-140	40	40			
2-Chloronaphthalene	91-58-7	0.2	0.035	ug/l	40-140	40	40-140	40	40			
Fluoranthene	206-44-0	0.1	0.038	ug/l	40-140	40	40-140	40	40			
Hexachlorobutadiene	87-68-3	0.5	0.036	ug/l	40-140	40	40-140	40	40			
Naphthalene	91-20-3	0.1	0.043	ug/l	40-140	40	40-140	40	40			
Benzo(a)anthracene	56-55-3	0.1	0.018	ug/l	40-140	40	40-140	40	40			
Benzo(a)pyrene	50-32-8	0.1	0.039	ug/l	40-140	40	40-140	40	40			
Benzo(b)fluoranthene	205-99-2	0.1	0.016	ug/l	40-140	40	40-140	40	40			
Benzo(k)fluoranthene	207-08-9	0.1	0.042	ug/l	40-140	40	40-140	40	40			
Chrysene	218-01-9	0.1	0.038	ug/l	40-140	40	40-140	40	40			
Acenaphthylene	208-96-8	0.1	0.035	ug/l	40-140	40	40-140	40	40			
Anthracene	120-12-7	0.1	0.035	ug/l	40-140	40	40-140	40	40			
Benzo(ghi)perylene	191-24-2	0.1	0.042	ug/l	40-140	40	40-140	40	40			
Fluorene	86-73-7	0.1	0.037	ug/l	40-140	40	40-140	40	40			
Phenanthrene	85-01-8	0.1	0.015	ug/l	40-140	40	40-140	40	40			
Dibenzo(a,h)anthracene	53-70-3	0.1	0.039	ug/l	40-140	40	40-140	40	40			
Indeno(1,2,3-cd)Pyrene	193-39-5	0.1	0.04	ug/l	40-140	40	40-140	40	40			
Pyrene	129-00-0	0.1	0.04	ug/l	40-140	40	40-140	40	40			
1-Methylnaphthalene	90-12-0	0.1	0.041	ug/l	40-140	40	40-140	40	40			
2-Methylnaphthalene	91-57-6	0.1	0.045	ug/l	40-140	40	40-140	40	40			
Pentachlorophenol	87-86-5	0.8	0.22	ug/l	40-140	40	40-140	40	40			
Hexachlorobenzene	118-74-1	0.8	0.032	ug/l	40-140	40	40-140	40	40			
Hexachloroethane	67-72-1	0.8	0.03	ug/l	40-140	40	40-140	40	40			
2-Fluorophenol	*367-12-4*									*21-120*		
Phenol-d6	*13127-88-3*									*10-120*		
Nitrobenzene-d5	*4165-60-0*									*23-120*		
2-Fluorobiphenyl	*321-60-8*									*15-120*		
2,4,6-Tribromophenol	*118-79-6*									*10-120*		
4-Terphenyl-d14	*1718-51-0*									*41-149*		

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

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

EPA 8270E Low Level PAH (SOIL)

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

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Acenaphthene	83-32-9	6.68	1.4028	ug/kg	40-140	50	40-140	50	50			
2-Chloronaphthalene	91-58-7	6.68	0.8684	ug/kg	40-140	50	40-140	50	50			
Fluoranthene	206-44-0	6.68	0.4676	ug/kg	40-140	50	40-140	50	50			
Hexachlorobutadiene	87-68-3	6.68	0.9352	ug/kg	34-107	50	40-140	50	50			
Naphthalene	91-20-3	6.68	1.2024	ug/kg	40-140	50	40-140	50	50			
Benzo(a)anthracene	56-55-3	6.68	0.6346	ug/kg	40-140	50	40-140	50	50			
Benzo(a)pyrene	50-32-8	6.68	0.8016	ug/kg	40-140	50	40-140	50	50			
Benzo(b)fluoranthene	205-99-2	6.68	0.6346	ug/kg	40-140	50	40-140	50	50			
Benzo(k)fluoranthene	207-08-9	6.68	0.6012	ug/kg	40-140	50	40-140	50	50			
Chrysene	218-01-9	6.68	0.501	ug/kg	40-140	50	40-140	50	50			
Acenaphthylene	208-96-8	6.68	0.835	ug/kg	40-140	50	40-140	50	50			
Anthracene	120-12-7	6.68	0.5344	ug/kg	40-140	50	40-140	50	50			
Benzo(ghi)perylene	191-24-2	6.68	0.5678	ug/kg	40-140	50	40-140	50	50			
Fluorene	86-73-7	6.68	0.8016	ug/kg	40-140	50	40-140	50	50			
Phenanthrene	85-01-8	6.68	0.5678	ug/kg	40-140	50	40-140	50	50			
Dibenzo(a,h)anthracene	53-70-3	6.68	0.668	ug/kg	40-140	50	40-140	50	50			
Indeno(1,2,3-cd)Pyrene	193-39-5	6.68	0.8016	ug/kg	40-140	50	40-140	50	50			
Pyrene	129-00-0	6.68	0.4676	ug/kg	35-142	50	35-142	50	50			
1-Methylnaphthalene	90-12-0	6.68	1.0354	ug/kg	40-140	50	40-140	50	50			
2-Methylnaphthalene	91-57-6	6.68	1.9038	ug/kg	40-140	50	40-140	50	50			
Pentachlorophenol	87-86-5	26.72	2.9392	ug/kg	17-109	50	17-109	50	50			
Hexachlorobenzene	118-74-1	6.68	0.7014	ug/kg	40-140	50	40-140	50	50			
Hexachloroethane	67-72-1	6.68	1.2358	ug/kg	29-106	50	40-140	50	50			
2-Fluorophenol	*367-12-4*									*25-120*		
Phenol-d6	*13127-88-3*									*10-120*		
Nitrobenzene-d5	*4165-60-0*									*23-120*		
2-Fluorobiphenyl	*321-60-8*									*30-120*		
2,4,6-Tribromophenol	*118-79-6*									*10-136*		
4-Terphenyl-d14	*1718-51-0*									*18-120*		

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

Semivolatile Sample Data

Results Summary
Form 1
Semivolatile Organics by GC/MS-SIM

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2410579-01	**Date Collected**	: 02/26/24 14:10
Client ID	: MW-1S	**Date Received**	: 02/27/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 03/05/24 09:58
Sample Matrix	: WATER	**Date Extracted**	: 03/02/24
Analytical Method	: 1,8270E-SIM	**Dilution Factor**	: 1
Lab File ID	: 10579-01	**Analyst**	: JJW
Sample Amount	: 275 ml	**Instrument ID**	: SV128
Extraction Method	: EPA 3510C	**GC Column**	: RXI-5SilM
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
83-32-9	Acenaphthene	0.05	0.10	0.01	J
91-58-7	2-Chloronaphthalene	ND	0.20	0.02	U
206-44-0	Fluoranthene	0.02	0.10	0.02	J
87-68-3	Hexachlorobutadiene	ND	0.50	0.05	U
91-20-3	Naphthalene	0.19	0.10	0.05	B
56-55-3	Benzo(a)anthracene	0.02	0.10	0.02	J
50-32-8	Benzo(a)pyrene	ND	0.10	0.02	U
205-99-2	Benzo(b)fluoranthene	ND	0.10	0.01	U
207-08-9	Benzo(k)fluoranthene	ND	0.10	0.01	U
218-01-9	Chrysene	0.02	0.10	0.01	J
208-96-8	Acenaphthylene	0.01	0.10	0.01	J
120-12-7	Anthracene	0.04	0.10	0.01	J
191-24-2	Benzo(ghi)perylene	0.04	0.10	0.01	J
86-73-7	Fluorene	0.05	0.10	0.01	J
85-01-8	Phenanthrene	0.03	0.10	0.02	J
53-70-3	Dibenzo(a,h)anthracene	0.04	0.10	0.01	J
193-39-5	Indeno(1,2,3-cd)pyrene	0.05	0.10	0.01	J
129-00-0	Pyrene	0.02	0.10	0.02	J
91-57-6	2-Methylnaphthalene	0.04	0.10	0.02	J
87-86-5	Pentachlorophenol	0.18	0.80	0.01	J
118-74-1	Hexachlorobenzene	ND	0.80	0.01	U
67-72-1	Hexachloroethane	ND	0.80	0.06	U

Results Summary
Form 1
Semivolatile Organics by GC/MS-SIM

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2410579-01RE	**Date Collected**	: 02/26/24 14:10
Client ID	: MW-1S	**Date Received**	: 02/27/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 03/06/24 03:39
Sample Matrix	: WATER	**Date Extracted**	: 03/05/24
Analytical Method	: 1,8270E-SIM	**Dilution Factor**	: 1
Lab File ID	: 10579-01	**Analyst**	: AH
Sample Amount	: 275 ml	**Instrument ID**	: SV119
Extraction Method	: EPA 3510C	**GC Column**	: RXI-5SilM
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
83-32-9	Acenaphthene	0.05	0.10	0.01	J
91-58-7	2-Chloronaphthalene	ND	0.20	0.02	U
206-44-0	Fluoranthene	0.03	0.10	0.02	J
87-68-3	Hexachlorobutadiene	ND	0.50	0.05	U
91-20-3	Naphthalene	0.10	0.10	0.05	B
56-55-3	Benzo(a)anthracene	ND	0.10	0.02	U
50-32-8	Benzo(a)pyrene	ND	0.10	0.02	U
205-99-2	Benzo(b)fluoranthene	ND	0.10	0.01	U
207-08-9	Benzo(k)fluoranthene	ND	0.10	0.01	U
218-01-9	Chrysene	ND	0.10	0.01	U
208-96-8	Acenaphthylene	0.01	0.10	0.01	J
120-12-7	Anthracene	0.05	0.10	0.01	J
191-24-2	Benzo(ghi)perylene	ND	0.10	0.01	U
86-73-7	Fluorene	0.06	0.10	0.01	J
85-01-8	Phenanthrene	0.06	0.10	0.02	J
53-70-3	Dibenzo(a,h)anthracene	ND	0.10	0.01	U
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.10	0.01	U
129-00-0	Pyrene	0.03	0.10	0.02	JB
91-57-6	2-Methylnaphthalene	0.04	0.10	0.02	J
87-86-5	Pentachlorophenol	0.14	0.80	0.01	J
118-74-1	Hexachlorobenzene	0.05	0.80	0.01	J
67-72-1	Hexachloroethane	ND	0.80	0.06	U

Results Summary
Form 1
Semivolatile Organics by GC/MS-SIM

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2410579-02	**Date Collected**	: 02/26/24 15:25
Client ID	: MW-2S	**Date Received**	: 02/27/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 03/05/24 10:15
Sample Matrix	: WATER	**Date Extracted**	: 03/04/24
Analytical Method	: 1,8270E-SIM	**Dilution Factor**	: 1
Lab File ID	: 10579-02	**Analyst**	: JJW
Sample Amount	: 275 ml	**Instrument ID**	: SV128
Extraction Method	: EPA 3510C	**GC Column**	: RXI-5SilM
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
83-32-9	Acenaphthene	ND	0.10	0.01	U
91-58-7	2-Chloronaphthalene	ND	0.20	0.02	U
206-44-0	Fluoranthene	ND	0.10	0.02	U
87-68-3	Hexachlorobutadiene	ND	0.50	0.05	U
91-20-3	Naphthalene	ND	0.10	0.05	U
56-55-3	Benzo(a)anthracene	ND	0.10	0.02	U
50-32-8	Benzo(a)pyrene	ND	0.10	0.02	U
205-99-2	Benzo(b)fluoranthene	ND	0.10	0.01	U
207-08-9	Benzo(k)fluoranthene	ND	0.10	0.01	U
218-01-9	Chrysene	ND	0.10	0.01	U
208-96-8	Acenaphthylene	ND	0.10	0.01	U
120-12-7	Anthracene	ND	0.10	0.01	U
191-24-2	Benzo(ghi)perylene	ND	0.10	0.01	U
86-73-7	Fluorene	ND	0.10	0.01	U
85-01-8	Phenanthrene	ND	0.10	0.02	U
53-70-3	Dibenzo(a,h)anthracene	ND	0.10	0.01	U
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.10	0.01	U
129-00-0	Pyrene	ND	0.10	0.02	U
91-57-6	2-Methylnaphthalene	ND	0.10	0.02	U
87-86-5	Pentachlorophenol	ND	0.80	0.01	U
118-74-1	Hexachlorobenzene	ND	0.80	0.01	U
67-72-1	Hexachloroethane	ND	0.80	0.06	U

Results Summary
Form 1
Semivolatile Organics by GC/MS-SIM

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2410579-03	**Date Collected**	: 02/26/24 16:30
Client ID	: MW-3S	**Date Received**	: 02/27/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 03/05/24 10:31
Sample Matrix	: WATER	**Date Extracted**	: 03/04/24
Analytical Method	: 1,8270E-SIM	**Dilution Factor**	: 1
Lab File ID	: 10579-03	**Analyst**	: JJW
Sample Amount	: 275 ml	**Instrument ID**	: SV128
Extraction Method	: EPA 3510C	**GC Column**	: RXI-5SilM
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
83-32-9	Acenaphthene	ND	0.10	0.01	U
91-58-7	2-Chloronaphthalene	ND	0.20	0.02	U
206-44-0	Fluoranthene	ND	0.10	0.02	U
87-68-3	Hexachlorobutadiene	ND	0.50	0.05	U
91-20-3	Naphthalene	0.06	0.10	0.05	JB
56-55-3	Benzo(a)anthracene	ND	0.10	0.02	U
50-32-8	Benzo(a)pyrene	ND	0.10	0.02	U
205-99-2	Benzo(b)fluoranthene	ND	0.10	0.01	U
207-08-9	Benzo(k)fluoranthene	ND	0.10	0.01	U
218-01-9	Chrysene	ND	0.10	0.01	U
208-96-8	Acenaphthylene	ND	0.10	0.01	U
120-12-7	Anthracene	ND	0.10	0.01	U
191-24-2	Benzo(ghi)perylene	ND	0.10	0.01	U
86-73-7	Fluorene	ND	0.10	0.01	U
85-01-8	Phenanthrene	ND	0.10	0.02	U
53-70-3	Dibenzo(a,h)anthracene	ND	0.10	0.01	U
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.10	0.01	U
129-00-0	Pyrene	ND	0.10	0.02	U
91-57-6	2-Methylnaphthalene	ND	0.10	0.02	U
87-86-5	Pentachlorophenol	ND	0.80	0.01	U
118-74-1	Hexachlorobenzene	ND	0.80	0.01	U
67-72-1	Hexachloroethane	ND	0.80	0.06	U

Results Summary
Form 1
Semivolatile Organics by GC/MS-SIM

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2410579-04	**Date Collected**	: 02/27/24 09:05
Client ID	: MW-4D	**Date Received**	: 02/27/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 03/06/24 08:33
Sample Matrix	: WATER	**Date Extracted**	: 03/05/24
Analytical Method	: 1,8270E-SIM	**Dilution Factor**	: 1
Lab File ID	: 10579-04	**Analyst**	: JJW
Sample Amount	: 275 ml	**Instrument ID**	: SV119
Extraction Method	: EPA 3510C	**GC Column**	: RXI-5SilM
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
83-32-9	Acenaphthene	ND	0.10	0.01	U
91-58-7	2-Chloronaphthalene	ND	0.20	0.02	U
206-44-0	Fluoranthene	ND	0.10	0.02	U
87-68-3	Hexachlorobutadiene	ND	0.50	0.05	U
91-20-3	Naphthalene	ND	0.10	0.05	U
56-55-3	Benzo(a)anthracene	ND	0.10	0.02	U
50-32-8	Benzo(a)pyrene	ND	0.10	0.02	U
205-99-2	Benzo(b)fluoranthene	ND	0.10	0.01	U
207-08-9	Benzo(k)fluoranthene	ND	0.10	0.01	U
218-01-9	Chrysene	ND	0.10	0.01	U
208-96-8	Acenaphthylene	ND	0.10	0.01	U
120-12-7	Anthracene	ND	0.10	0.01	U
191-24-2	Benzo(ghi)perylene	ND	0.10	0.01	U
86-73-7	Fluorene	ND	0.10	0.01	U
85-01-8	Phenanthrene	ND	0.10	0.02	U
53-70-3	Dibenzo(a,h)anthracene	ND	0.10	0.01	U
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.10	0.01	U
129-00-0	Pyrene	ND	0.10	0.02	U
91-57-6	2-Methylnaphthalene	ND	0.10	0.02	U
87-86-5	Pentachlorophenol	ND	0.80	0.01	U
118-74-1	Hexachlorobenzene	ND	0.80	0.01	U
67-72-1	Hexachloroethane	ND	0.80	0.06	U

Results Summary
Form 1
Semivolatile Organics by GC/MS-SIM

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2410579-05	**Date Collected**	: 02/27/24 08:40
Client ID	: MW-5S	**Date Received**	: 02/27/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 03/05/24 11:05
Sample Matrix	: WATER	**Date Extracted**	: 03/04/24
Analytical Method	: 1,8270E-SIM	**Dilution Factor**	: 1
Lab File ID	: 10579-05	**Analyst**	: JJW
Sample Amount	: 275 ml	**Instrument ID**	: SV128
Extraction Method	: EPA 3510C	**GC Column**	: RXI-5SilM
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
83-32-9	Acenaphthene	0.03	0.10	0.01	J
91-58-7	2-Chloronaphthalene	ND	0.20	0.02	U
206-44-0	Fluoranthene	ND	0.10	0.02	U
87-68-3	Hexachlorobutadiene	ND	0.50	0.05	U
91-20-3	Naphthalene	1.2	0.10	0.05	B
56-55-3	Benzo(a)anthracene	ND	0.10	0.02	U
50-32-8	Benzo(a)pyrene	ND	0.10	0.02	U
205-99-2	Benzo(b)fluoranthene	ND	0.10	0.01	U
207-08-9	Benzo(k)fluoranthene	ND	0.10	0.01	U
218-01-9	Chrysene	ND	0.10	0.01	U
208-96-8	Acenaphthylene	ND	0.10	0.01	U
120-12-7	Anthracene	ND	0.10	0.01	U
191-24-2	Benzo(ghi)perylene	ND	0.10	0.01	U
86-73-7	Fluorene	0.04	0.10	0.01	J
85-01-8	Phenanthrene	0.04	0.10	0.02	J
53-70-3	Dibenzo(a,h)anthracene	ND	0.10	0.01	U
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.10	0.01	U
129-00-0	Pyrene	ND	0.10	0.02	U
91-57-6	2-Methylnaphthalene	0.15	0.10	0.02	
87-86-5	Pentachlorophenol	ND	0.80	0.01	U
118-74-1	Hexachlorobenzene	ND	0.80	0.01	U
67-72-1	Hexachloroethane	ND	0.80	0.06	U

Results Summary
Form 1
Semivolatile Organics by GC/MS-SIM

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2410579-05RE	**Date Collected**	: 02/27/24 08:40
Client ID	: MW-5S	**Date Received**	: 02/27/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 03/06/24 08:49
Sample Matrix	: WATER	**Date Extracted**	: 03/05/24
Analytical Method	: 1,8270E-SIM	**Dilution Factor**	: 1
Lab File ID	: 10579-05	**Analyst**	: JJW
Sample Amount	: 275 ml	**Instrument ID**	: SV119
Extraction Method	: EPA 3510C	**GC Column**	: RXI-5SilM
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
83-32-9	Acenaphthene	ND	0.10	0.01	U
91-58-7	2-Chloronaphthalene	ND	0.20	0.02	U
206-44-0	Fluoranthene	ND	0.10	0.02	U
87-68-3	Hexachlorobutadiene	ND	0.50	0.05	U
91-20-3	Naphthalene	0.67	0.10	0.05	B
56-55-3	Benzo(a)anthracene	ND	0.10	0.02	U
50-32-8	Benzo(a)pyrene	ND	0.10	0.02	U
205-99-2	Benzo(b)fluoranthene	ND	0.10	0.01	U
207-08-9	Benzo(k)fluoranthene	ND	0.10	0.01	U
218-01-9	Chrysene	ND	0.10	0.01	U
208-96-8	Acenaphthylene	0.02	0.10	0.01	J
120-12-7	Anthracene	ND	0.10	0.01	U
191-24-2	Benzo(ghi)perylene	ND	0.10	0.01	U
86-73-7	Fluorene	0.02	0.10	0.01	J
85-01-8	Phenanthrene	0.02	0.10	0.02	J
53-70-3	Dibenzo(a,h)anthracene	ND	0.10	0.01	U
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.10	0.01	U
129-00-0	Pyrene	ND	0.10	0.02	U
91-57-6	2-Methylnaphthalene	0.06	0.10	0.02	J
87-86-5	Pentachlorophenol	ND	0.80	0.01	U
118-74-1	Hexachlorobenzene	0.01	0.80	0.01	J
67-72-1	Hexachloroethane	ND	0.80	0.06	U

Results Summary
Form 1
Semivolatile Organics by GC/MS-SIM

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2410579-06	**Date Collected**	: 02/26/24 16:35
Client ID	: MW-6D	**Date Received**	: 02/27/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 03/04/24 14:36
Sample Matrix	: WATER	**Date Extracted**	: 03/02/24
Analytical Method	: 1,8270E-SIM	**Dilution Factor**	: 1
Lab File ID	: 10579-06	**Analyst**	: DV
Sample Amount	: 275 ml	**Instrument ID**	: SV119
Extraction Method	: EPA 3510C	**GC Column**	: RXI-5SilM
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
83-32-9	Acenaphthene	ND	0.10	0.01	U
91-58-7	2-Chloronaphthalene	ND	0.20	0.02	U
206-44-0	Fluoranthene	ND	0.10	0.02	U
87-68-3	Hexachlorobutadiene	ND	0.50	0.05	U
91-20-3	Naphthalene	0.15	0.10	0.05	B
56-55-3	Benzo(a)anthracene	ND	0.10	0.02	U
50-32-8	Benzo(a)pyrene	ND	0.10	0.02	U
205-99-2	Benzo(b)fluoranthene	ND	0.10	0.01	U
207-08-9	Benzo(k)fluoranthene	ND	0.10	0.01	U
218-01-9	Chrysene	ND	0.10	0.01	U
208-96-8	Acenaphthylene	ND	0.10	0.01	U
120-12-7	Anthracene	ND	0.10	0.01	U
191-24-2	Benzo(ghi)perylene	ND	0.10	0.01	U
86-73-7	Fluorene	ND	0.10	0.01	U
85-01-8	Phenanthrene	ND	0.10	0.02	U
53-70-3	Dibenzo(a,h)anthracene	ND	0.10	0.01	U
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.10	0.01	U
129-00-0	Pyrene	ND	0.10	0.02	U
91-57-6	2-Methylnaphthalene	0.02	0.10	0.02	J
87-86-5	Pentachlorophenol	ND	0.80	0.01	U
118-74-1	Hexachlorobenzene	ND	0.80	0.01	U
67-72-1	Hexachloroethane	ND	0.80	0.06	U

Results Summary
Form 1
Semivolatile Organics by GC/MS-SIM

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2410579-06RE	**Date Collected**	: 02/26/24 16:35
Client ID	: MW-6D	**Date Received**	: 02/27/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 03/05/24 11:38
Sample Matrix	: WATER	**Date Extracted**	: 03/04/24
Analytical Method	: 1,8270E-SIM	**Dilution Factor**	: 1
Lab File ID	: 10579-06	**Analyst**	: JJW
Sample Amount	: 275 ml	**Instrument ID**	: SV128
Extraction Method	: EPA 3510C	**GC Column**	: RXI-5SilM
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
83-32-9	Acenaphthene	ND	0.10	0.01	U
91-58-7	2-Chloronaphthalene	ND	0.20	0.02	U
206-44-0	Fluoranthene	0.02	0.10	0.02	J
87-68-3	Hexachlorobutadiene	ND	0.50	0.05	U
91-20-3	Naphthalene	0.40	0.10	0.05	B
56-55-3	Benzo(a)anthracene	ND	0.10	0.02	U
50-32-8	Benzo(a)pyrene	ND	0.10	0.02	U
205-99-2	Benzo(b)fluoranthene	0.02	0.10	0.01	JB
207-08-9	Benzo(k)fluoranthene	ND	0.10	0.01	U
218-01-9	Chrysene	0.01	0.10	0.01	JB
208-96-8	Acenaphthylene	ND	0.10	0.01	U
120-12-7	Anthracene	ND	0.10	0.01	U
191-24-2	Benzo(ghi)perylene	ND	0.10	0.01	U
86-73-7	Fluorene	ND	0.10	0.01	U
85-01-8	Phenanthrene	ND	0.10	0.02	U
53-70-3	Dibenzo(a,h)anthracene	ND	0.10	0.01	U
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.10	0.01	U
129-00-0	Pyrene	0.02	0.10	0.02	JB
91-57-6	2-Methylnaphthalene	0.03	0.10	0.02	J
87-86-5	Pentachlorophenol	ND	0.80	0.01	U
118-74-1	Hexachlorobenzene	ND	0.80	0.01	U
67-72-1	Hexachloroethane	ND	0.80	0.06	U

Results Summary
Form 1
Semivolatile Organics by GC/MS-SIM

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2410579-07	**Date Collected**	: 02/26/24 14:45
Client ID	: MW-7S	**Date Received**	: 02/27/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 03/04/24 14:53
Sample Matrix	: WATER	**Date Extracted**	: 03/02/24
Analytical Method	: 1,8270E-SIM	**Dilution Factor**	: 1
Lab File ID	: 10579-07	**Analyst**	: DV
Sample Amount	: 275 ml	**Instrument ID**	: SV119
Extraction Method	: EPA 3510C	**GC Column**	: RXI-5SilM
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
83-32-9	Acenaphthene	ND	0.10	0.01	U
91-58-7	2-Chloronaphthalene	ND	0.20	0.02	U
206-44-0	Fluoranthene	ND	0.10	0.02	U
87-68-3	Hexachlorobutadiene	ND	0.50	0.05	U
91-20-3	Naphthalene	ND	0.10	0.05	U
56-55-3	Benzo(a)anthracene	ND	0.10	0.02	U
50-32-8	Benzo(a)pyrene	ND	0.10	0.02	U
205-99-2	Benzo(b)fluoranthene	ND	0.10	0.01	U
207-08-9	Benzo(k)fluoranthene	ND	0.10	0.01	U
218-01-9	Chrysene	ND	0.10	0.01	U
208-96-8	Acenaphthylene	ND	0.10	0.01	U
120-12-7	Anthracene	ND	0.10	0.01	U
191-24-2	Benzo(ghi)perylene	ND	0.10	0.01	U
86-73-7	Fluorene	ND	0.10	0.01	U
85-01-8	Phenanthrene	ND	0.10	0.02	U
53-70-3	Dibenzo(a,h)anthracene	ND	0.10	0.01	U
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.10	0.01	U
129-00-0	Pyrene	ND	0.10	0.02	U
91-57-6	2-Methylnaphthalene	ND	0.10	0.02	U
87-86-5	Pentachlorophenol	ND	0.80	0.01	U
118-74-1	Hexachlorobenzene	ND	0.80	0.01	U
67-72-1	Hexachloroethane	ND	0.80	0.06	U

Results Summary
Form 1
Semivolatile Organics by GC/MS-SIM

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2410579-08	**Date Collected**	: 02/27/24 10:25
Client ID	: MW-8S	**Date Received**	: 02/27/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 03/05/24 11:54
Sample Matrix	: WATER	**Date Extracted**	: 03/04/24
Analytical Method	: 1,8270E-SIM	**Dilution Factor**	: 1
Lab File ID	: 10579-08	**Analyst**	: JJW
Sample Amount	: 275 ml	**Instrument ID**	: SV128
Extraction Method	: EPA 3510C	**GC Column**	: RXI-5SilM
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
83-32-9	Acenaphthene	0.06	0.10	0.01	J
91-58-7	2-Chloronaphthalene	ND	0.20	0.02	U
206-44-0	Fluoranthene	0.02	0.10	0.02	J
87-68-3	Hexachlorobutadiene	ND	0.50	0.05	U
91-20-3	Naphthalene	3.2	0.10	0.05	
56-55-3	Benzo(a)anthracene	ND	0.10	0.02	U
50-32-8	Benzo(a)pyrene	ND	0.10	0.02	U
205-99-2	Benzo(b)fluoranthene	ND	0.10	0.01	U
207-08-9	Benzo(k)fluoranthene	ND	0.10	0.01	U
218-01-9	Chrysene	ND	0.10	0.01	U
208-96-8	Acenaphthylene	0.03	0.10	0.01	J
120-12-7	Anthracene	ND	0.10	0.01	U
191-24-2	Benzo(ghi)perylene	ND	0.10	0.01	U
86-73-7	Fluorene	0.06	0.10	0.01	J
85-01-8	Phenanthrene	0.05	0.10	0.02	J
53-70-3	Dibenzo(a,h)anthracene	ND	0.10	0.01	U
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.10	0.01	U
129-00-0	Pyrene	ND	0.10	0.02	U
91-57-6	2-Methylnaphthalene	0.31	0.10	0.02	
87-86-5	Pentachlorophenol	ND	0.80	0.01	U
118-74-1	Hexachlorobenzene	ND	0.80	0.01	U
67-72-1	Hexachloroethane	ND	0.80	0.06	U

Results Summary
Form 1
Semivolatile Organics by GC/MS-SIM

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2410579-09	**Date Collected**	: 02/26/24 00:00
Client ID	: DUP	**Date Received**	: 02/27/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 03/05/24 13:34
Sample Matrix	: WATER	**Date Extracted**	: 03/04/24
Analytical Method	: 1,8270E-SIM	**Dilution Factor**	: 1
Lab File ID	: 10579-09	**Analyst**	: JJW
Sample Amount	: 275 ml	**Instrument ID**	: SV128
Extraction Method	: EPA 3510C	**GC Column**	: RXI-5SilM
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
83-32-9	Acenaphthene	ND	0.10	0.01	U
91-58-7	2-Chloronaphthalene	0.02	0.20	0.02	J
206-44-0	Fluoranthene	0.02	0.10	0.02	J
87-68-3	Hexachlorobutadiene	ND	0.50	0.05	U
91-20-3	Naphthalene	0.07	0.10	0.05	JB
56-55-3	Benzo(a)anthracene	ND	0.10	0.02	U
50-32-8	Benzo(a)pyrene	ND	0.10	0.02	U
205-99-2	Benzo(b)fluoranthene	ND	0.10	0.01	U
207-08-9	Benzo(k)fluoranthene	0.01	0.10	0.01	J
218-01-9	Chrysene	0.01	0.10	0.01	JB
208-96-8	Acenaphthylene	ND	0.10	0.01	U
120-12-7	Anthracene	0.02	0.10	0.01	J
191-24-2	Benzo(ghi)perylene	ND	0.10	0.01	U
86-73-7	Fluorene	0.02	0.10	0.01	J
85-01-8	Phenanthrene	0.03	0.10	0.02	J
53-70-3	Dibenzo(a,h)anthracene	ND	0.10	0.01	U
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.10	0.01	U
129-00-0	Pyrene	0.02	0.10	0.02	JB
91-57-6	2-Methylnaphthalene	0.03	0.10	0.02	J
87-86-5	Pentachlorophenol	ND	0.80	0.01	U
118-74-1	Hexachlorobenzene	0.02	0.80	0.01	J
67-72-1	Hexachloroethane	ND	0.80	0.06	U

Results Summary
Form 1
Semivolatile Organics by GC/MS-SIM

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2410579-10	**Date Collected**	: 02/27/24 09:15
Client ID	: EB	**Date Received**	: 02/27/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 03/05/24 13:51
Sample Matrix	: WATER	**Date Extracted**	: 03/04/24
Analytical Method	: 1,8270E-SIM	**Dilution Factor**	: 1
Lab File ID	: 10579-10	**Analyst**	: JJW
Sample Amount	: 275 ml	**Instrument ID**	: SV128
Extraction Method	: EPA 3510C	**GC Column**	: RXI-5SilM
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
83-32-9	Acenaphthene	ND	0.10	0.01	U
91-58-7	2-Chloronaphthalene	ND	0.20	0.02	U
206-44-0	Fluoranthene	ND	0.10	0.02	U
87-68-3	Hexachlorobutadiene	ND	0.50	0.05	U
91-20-3	Naphthalene	0.06	0.10	0.05	JB
56-55-3	Benzo(a)anthracene	ND	0.10	0.02	U
50-32-8	Benzo(a)pyrene	ND	0.10	0.02	U
205-99-2	Benzo(b)fluoranthene	ND	0.10	0.01	U
207-08-9	Benzo(k)fluoranthene	ND	0.10	0.01	U
218-01-9	Chrysene	ND	0.10	0.01	U
208-96-8	Acenaphthylene	ND	0.10	0.01	U
120-12-7	Anthracene	ND	0.10	0.01	U
191-24-2	Benzo(ghi)perylene	ND	0.10	0.01	U
86-73-7	Fluorene	ND	0.10	0.01	U
85-01-8	Phenanthrene	ND	0.10	0.02	U
53-70-3	Dibenzo(a,h)anthracene	ND	0.10	0.01	U
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.10	0.01	U
129-00-0	Pyrene	ND	0.10	0.02	U
91-57-6	2-Methylnaphthalene	ND	0.10	0.02	U
87-86-5	Pentachlorophenol	ND	0.80	0.01	U
118-74-1	Hexachlorobenzene	ND	0.80	0.01	U
67-72-1	Hexachloroethane	ND	0.80	0.06	U

Results Summary
Form 1
Semivolatile Organics by GC/MS-SIM

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: WG1891420-1	**Date Collected**	: NA
Client ID	: WG1891420-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 03/03/24 17:30
Sample Matrix	: WATER	**Date Extracted**	: 03/02/24
Analytical Method	: 1,8270E-SIM	**Dilution Factor**	: 1
Lab File ID	: 891420-1	**Analyst**	: JJW
Sample Amount	: 275 ml	**Instrument ID**	: SV128
Extraction Method	: EPA 3510C	**GC Column**	: RXI-5SilM
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
83-32-9	Acenaphthene	ND	0.10	0.01	U
91-58-7	2-Chloronaphthalene	ND	0.20	0.02	U
206-44-0	Fluoranthene	ND	0.10	0.02	U
87-68-3	Hexachlorobutadiene	ND	0.50	0.05	U
91-20-3	Naphthalene	0.15	0.10	0.05	
56-55-3	Benzo(a)anthracene	ND	0.10	0.02	U
50-32-8	Benzo(a)pyrene	ND	0.10	0.02	U
205-99-2	Benzo(b)fluoranthene	ND	0.10	0.01	U
207-08-9	Benzo(k)fluoranthene	ND	0.10	0.01	U
218-01-9	Chrysene	ND	0.10	0.01	U
208-96-8	Acenaphthylene	ND	0.10	0.01	U
120-12-7	Anthracene	ND	0.10	0.01	U
191-24-2	Benzo(ghi)perylene	ND	0.10	0.01	U
86-73-7	Fluorene	ND	0.10	0.01	U
85-01-8	Phenanthrene	ND	0.10	0.02	U
53-70-3	Dibenzo(a,h)anthracene	ND	0.10	0.01	U
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.10	0.01	U
129-00-0	Pyrene	ND	0.10	0.02	U
91-57-6	2-Methylnaphthalene	0.05	0.10	0.02	J
87-86-5	Pentachlorophenol	ND	0.80	0.01	U
118-74-1	Hexachlorobenzene	ND	0.80	0.01	U
67-72-1	Hexachloroethane	ND	0.80	0.06	U

Results Summary
Form 1
Semivolatile Organics by GC/MS-SIM

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: WG1892049-1	**Date Collected**	: NA
Client ID	: WG1892049-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 03/05/24 09:41
Sample Matrix	: WATER	**Date Extracted**	: 03/04/24
Analytical Method	: 1,8270E-SIM	**Dilution Factor**	: 1
Lab File ID	: 892049-1	**Analyst**	: JJW
Sample Amount	: 275 ml	**Instrument ID**	: SV128
Extraction Method	: EPA 3510C	**GC Column**	: RXI-5SilM
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
83-32-9	Acenaphthene	ND	0.10	0.01	U
91-58-7	2-Chloronaphthalene	ND	0.20	0.02	U
206-44-0	Fluoranthene	0.09	0.10	0.02	J
87-68-3	Hexachlorobutadiene	ND	0.50	0.05	U
91-20-3	Naphthalene	0.18	0.10	0.05	
56-55-3	Benzo(a)anthracene	0.11	0.10	0.02	
50-32-8	Benzo(a)pyrene	0.07	0.10	0.02	J
205-99-2	Benzo(b)fluoranthene	0.15	0.10	0.01	
207-08-9	Benzo(k)fluoranthene	0.04	0.10	0.01	J
218-01-9	Chrysene	0.12	0.10	0.01	
208-96-8	Acenaphthylene	ND	0.10	0.01	U
120-12-7	Anthracene	ND	0.10	0.01	U
191-24-2	Benzo(ghi)perylene	0.08	0.10	0.01	J
86-73-7	Fluorene	0.02	0.10	0.01	J
85-01-8	Phenanthrene	0.03	0.10	0.02	J
53-70-3	Dibenzo(a,h)anthracene	0.02	0.10	0.01	J
193-39-5	Indeno(1,2,3-cd)pyrene	0.08	0.10	0.01	J
129-00-0	Pyrene	0.10	0.10	0.02	
91-57-6	2-Methylnaphthalene	0.04	0.10	0.02	J
87-86-5	Pentachlorophenol	ND	0.80	0.01	U
118-74-1	Hexachlorobenzene	ND	0.80	0.01	U
67-72-1	Hexachloroethane	ND	0.80	0.06	U

Results Summary
Form 1
Semivolatile Organics by GC/MS-SIM

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: WG1892407-1	**Date Collected**	: NA
Client ID	: WG1892407-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 03/06/24 07:43
Sample Matrix	: WATER	**Date Extracted**	: 03/05/24
Analytical Method	: 1,8270E-SIM	**Dilution Factor**	: 1
Lab File ID	: 892407-1	**Analyst**	: JJW
Sample Amount	: 275 ml	**Instrument ID**	: SV119
Extraction Method	: EPA 3510C	**GC Column**	: RXI-5SilM
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
83-32-9	Acenaphthene	ND	0.10	0.01	U
91-58-7	2-Chloronaphthalene	ND	0.20	0.02	U
206-44-0	Fluoranthene	ND	0.10	0.02	U
87-68-3	Hexachlorobutadiene	ND	0.50	0.05	U
91-20-3	Naphthalene	0.30	0.10	0.05	
56-55-3	Benzo(a)anthracene	ND	0.10	0.02	U
50-32-8	Benzo(a)pyrene	ND	0.10	0.02	U
205-99-2	Benzo(b)fluoranthene	ND	0.10	0.01	U
207-08-9	Benzo(k)fluoranthene	0.01	0.10	0.01	J
218-01-9	Chrysene	ND	0.10	0.01	U
208-96-8	Acenaphthylene	0.02	0.10	0.01	J
120-12-7	Anthracene	ND	0.10	0.01	U
191-24-2	Benzo(ghi)perylene	ND	0.10	0.01	U
86-73-7	Fluorene	0.02	0.10	0.01	J
85-01-8	Phenanthrene	ND	0.10	0.02	U
53-70-3	Dibenzo(a,h)anthracene	ND	0.10	0.01	U
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.10	0.01	U
129-00-0	Pyrene	ND	0.10	0.02	U
91-57-6	2-Methylnaphthalene	0.04	0.10	0.02	J
87-86-5	Pentachlorophenol	ND	0.80	0.01	U
118-74-1	Hexachlorobenzene	0.01	0.80	0.01	J
67-72-1	Hexachloroethane	ND	0.80	0.06	U

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\240304LVI\
Data File : 10579-06.D
Acq On : 04 Mar 2024 02:36 pm
Operator : sv119:dv
Sample : L2410579-06,32,,ah
Misc : WG1891805,wg1891420,ical20642
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Mar 04 15:18:27 2024
Quant Method : I:\8270sim\sv119\240304LVI\SIM-LVI_231207n_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Mar 04 07:58:51 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv119\240304LVI\ccv0304.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.154	152	39211	4000.000	ng/ml	0.00
Standard Area 1 = 38923			Recovery = 100.74%			
8) Naphthalene-d8	2.811	136	137321	4000.000	ng/ml	0.00
Standard Area 1 = 132574			Recovery = 103.58%			
17) Acenaphthene-d10	3.775	164	82656	4000.000	ng/ml	0.00
Standard Area 1 = 74190			Recovery = 111.41%			
22) Phenanthrene-d10	4.604	188	183509	4000.000	ng/ml	0.00
Standard Area 1 = 161045			Recovery = 113.95%			
31) Chrysene-d12	6.129	240	187485	4000.000	ng/ml	-0.02
Standard Area 1 = 136086			Recovery = 137.77%			
36) Perylene-d12	7.237	264	197135	4000.000	ng/ml	-0.02
Standard Area 1 = 138161			Recovery = 142.68%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.566	112	30230	2818.684	ng/ml	0.01
Spiked Amount 5000.000	Range 15 - 110		Recovery = 56.37%			
3) Phenol-d6	1.976	99	30399	2364.610	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 47.29%			
7) Nitrobenzene-d5	2.432	82	16262	1667.612	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 66.70%			
13) 2-Fluorobiphenyl	3.403	172	43721	1425.572	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 57.02%			
21) 2,4,6-Tribromophenol	4.216	330	17362	3809.998	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 76.20%			
30) 4-Terphenyl-d14	5.514	244	67147	1492.604	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 59.70%			
Target Compounds						Qvalue
6) Hexachloroethane	0.000		0	N.D.	d	
9) Naphthalene	2.820	128	1392	42.453	ng/ml#	96
10) Hexachlorobutadiene	2.894	225	5	0.708	ng/ml#	1
11) 2-Methylnaphthalene	3.198	142	149	6.146	ng/ml	83
14) 2-Chloronaphthalene	0.000		0	N.D.	d	
16) Acenaphthylene	0.000		0	N.D.	d	
18) Acenaphthene	0.000		0	N.D.	d	
20) Fluorene	0.000		0	N.D.	d	
24) Hexachlorobenzene	0.000		0	N.D.	d	
25) Pentachlorophenol	0.000		0	N.D.	d	

Data Path : I:\8270SIM\sv119\240304LVI\
Data File : 10579-06.D
Acq On : 04 Mar 2024 02:36 pm
Operator : sv119:dv
Sample : L2410579-06,32,,ah
Misc : WG1891805,wg1891420,ical20642
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Mar 04 15:18:27 2024
Quant Method : I:\8270sim\sv119\240304LVI\SIM-LVI_231207n_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Mar 04 07:58:51 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv119\240304LVI\ccv0304.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Phenanthrene	0.000		0	N.D.	d	
27) Anthracene	0.000		0	N.D.	d	
28) Fluoranthene	0.000		0	N.D.	d	
29) Pyrene	0.000		0	N.D.	d	
32) Benzo[a]anthracene	0.000		0	N.D.	d	
34) Chrysene	0.000		0	N.D.	d	
37) Benzo[b]fluoranthene	0.000		0	N.D.	d	
38) Benzo[k]fluoranthene	0.000		0	N.D.	d	
39) Benzo[a]pyrene	0.000		0	N.D.	d	
40) Indeno[1,2,3-cd]pyrene	0.000		0	N.D.	d	
41) Dibenzo[a,h]anthracene	0.000		0	N.D.	d	
42) Benzo[g,h,i]perylene	0.000		0	N.D.	d	

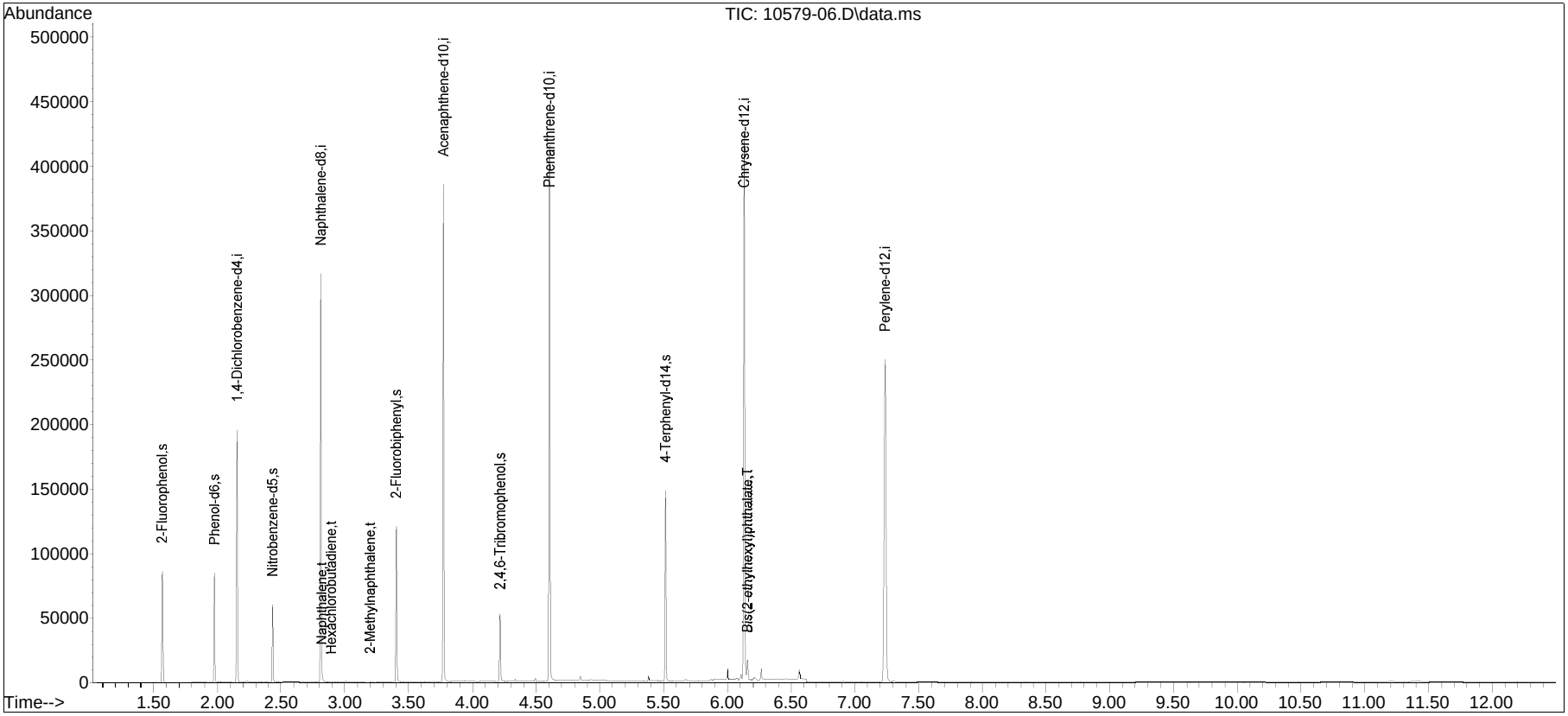
(#) = qualifier out of range (m) = manual integration (+) = signals summed

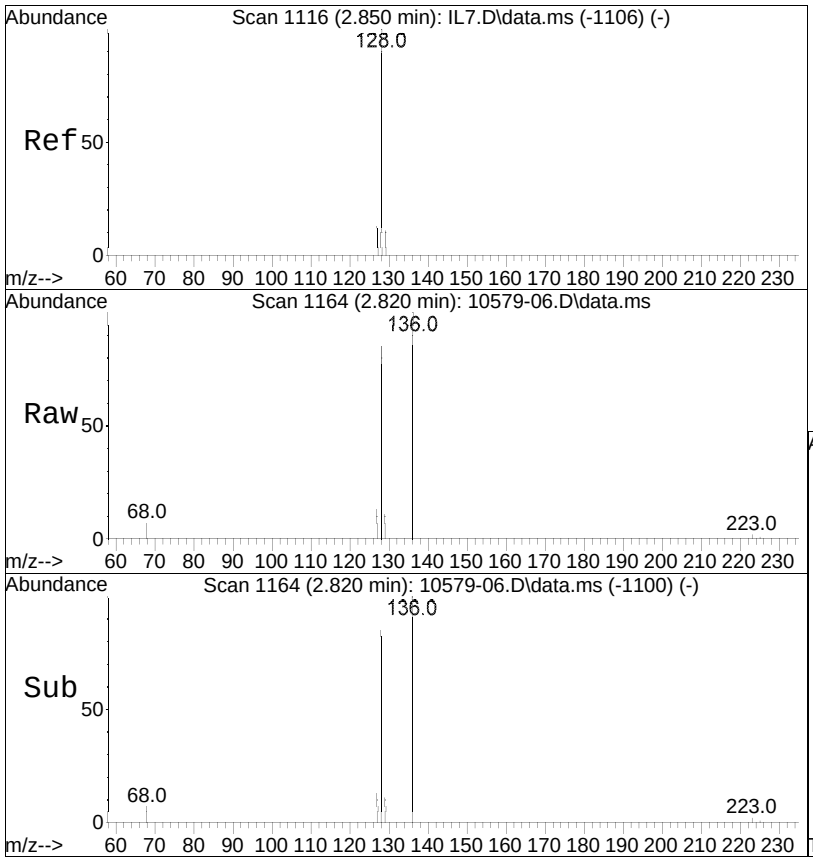
Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\240304LVI\
Data File : 10579-06.D
Acq On : 04 Mar 2024 02:36 pm
Operator : sv119:dv
Sample : L2410579-06,32,,ah
Misc : WG1891805,wg1891420,ical20642
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Mar 04 15:18:27 2024
Quant Method : I:\8270sim\sv119\240304LVI\SIM-LVI_231207n_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Mar 04 07:58:51 2024
Response via : Initial Calibration

Sub List : DEFAULT - All compounds listed\ccv0304.D•

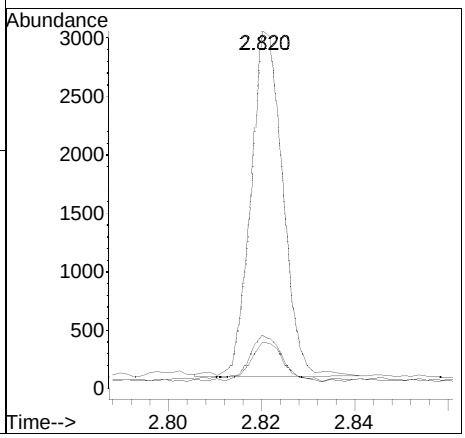


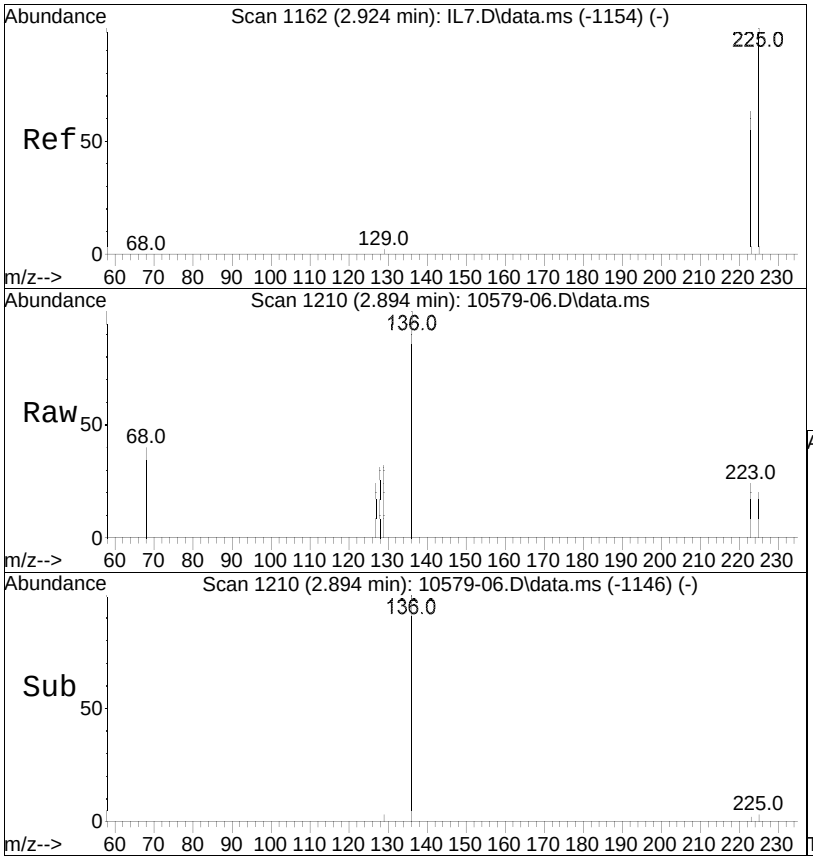


#9
Naphthalene
Concen: 42.45 ng/ml
RT: 2.820 min Scan# 1164
Delta R.T. 0.003 min
Lab File: 10579-06.D
Acq: 04 Mar 2024 02:36 pm

Tgt Ion:128 Resp: 1392

Ion	Ratio	Lower	Upper
128	100		
129	13.4	8.8	13.2#
127	14.4	10.6	15.8

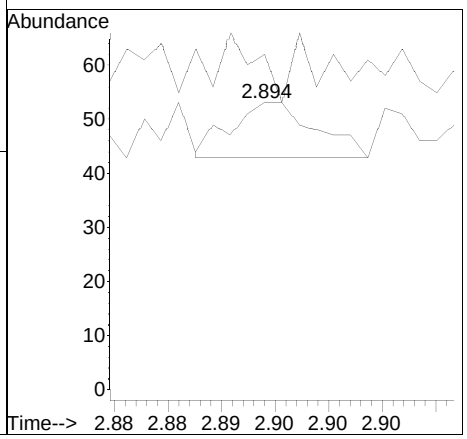


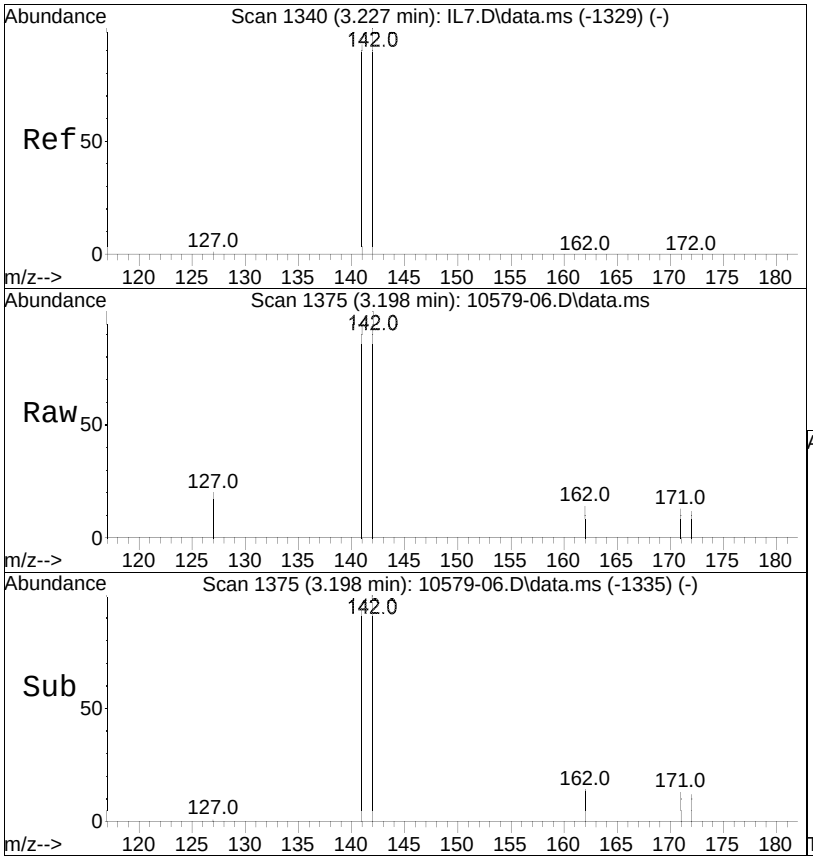


#10
Hexachlorobutadiene
Concen: 0.71 ng/ml
RT: 2.894 min Scan# 1210
Delta R.T. 0.003 min
Lab File: 10579-06.D
Acq: 04 Mar 2024 02:36 pm

Tgt Ion:225 Resp: 5

Ion	Ratio	Lower	Upper
225	100		
223	140.0	50.1	75.1#

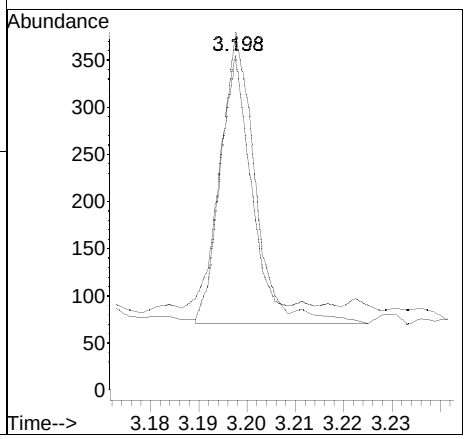




#11
2-Methylnaphthalene
Concen: 6.15 ng/ml
RT: 3.198 min Scan# 1375
Delta R.T. 0.003 min
Lab File: 10579-06.D
Acq: 04 Mar 2024 02:36 pm

Tgt Ion:142 Resp: 149

Ion	Ratio	Lower	Upper
142	100		
141	76.5	74.1	111.1



Manual Integration Report

Data Path	: I:\8270SIM\sv119\240304LVI	Method	: SIM-LVI_231207n_sv119.M
Data File	: 10579-06.D	Operator	: sv119:dv
Date Inj'd	: 3/4/2024 2:36 pm	Instrument	: SV119
Sample	: L2410579-06,32,,ah	Quant Date	: 3/4/2024 2:54 pm

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\240304LVI\
Data File : 10579-07.D
Acq On : 04 Mar 2024 02:53 pm
Operator : sv119:dv
Sample : L2410579-07,32,,ah
Misc : WG1891805,wg1891420,ical20642
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Mar 04 15:19:24 2024
Quant Method : I:\8270sim\sv119\240304LVI\SIM-LVI_231207n_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Mar 04 07:58:51 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv119\240304LVI\ccv0304.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.154	152	34812	4000.000	ng/ml	0.00
Standard Area 1 = 38923			Recovery = 89.44%			
8) Naphthalene-d8	2.809	136	120766	4000.000	ng/ml	0.00
Standard Area 1 = 132574			Recovery = 91.09%			
17) Acenaphthene-d10	3.775	164	72200	4000.000	ng/ml	0.00
Standard Area 1 = 74190			Recovery = 97.32%			
22) Phenanthrene-d10	4.604	188	162453	4000.000	ng/ml	0.00
Standard Area 1 = 161045			Recovery = 100.87%			
31) Chrysene-d12	6.127	240	173162	4000.000	ng/ml	-0.02
Standard Area 1 = 136086			Recovery = 127.24%			
36) Perylene-d12	7.233	264	182815	4000.000	ng/ml	-0.02
Standard Area 1 = 138161			Recovery = 132.32%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.565	112	27977	2938.248	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 58.76%			
3) Phenol-d6	1.974	99	28099	2461.898	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 49.24%			
7) Nitrobenzene-d5	2.430	82	15333	1771.035	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 70.84%			
13) 2-Fluorobiphenyl	3.401	172	41880	1552.738	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 62.11%			
21) 2,4,6-Tribromophenol	4.214	330	15151	3806.304	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 76.13%			
30) 4-Terphenyl-d14	5.512	244	64920	1630.144	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 65.21%			

Target Compounds				Qvalue
6) Hexachloroethane	0.000	0	N.D. d	
9) Naphthalene	0.000	0	N.D. d	
10) Hexachlorobutadiene	0.000	0	N.D.	
11) 2-Methylnaphthalene	0.000	0	N.D. d	
14) 2-Chloronaphthalene	0.000	0	N.D. d	
16) Acenaphthylene	0.000	0	N.D. d	
18) Acenaphthene	0.000	0	N.D. d	
20) Fluorene	0.000	0	N.D. d	
24) Hexachlorobenzene	0.000	0	N.D. d	
25) Pentachlorophenol	0.000	0	N.D. d	

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\240304LVI\
Data File : 10579-07.D
Acq On : 04 Mar 2024 02:53 pm
Operator : sv119:dv
Sample : L2410579-07,32,,ah
Misc : WG1891805,wg1891420,ical20642
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Mar 04 15:19:24 2024
Quant Method : I:\8270sim\sv119\240304LVI\SIM-LVI_231207n_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Mar 04 07:58:51 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv119\240304LVI\ccv0304.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Phenanthrene	0.000		0	N.D.	d	
27) Anthracene	0.000		0	N.D.	d	
28) Fluoranthene	0.000		0	N.D.	d	
29) Pyrene	0.000		0	N.D.	d	
32) Benzo[a]anthracene	0.000		0	N.D.	d	
34) Chrysene	0.000		0	N.D.	d	
37) Benzo[b]fluoranthene	0.000		0	N.D.	d	
38) Benzo[k]fluoranthene	0.000		0	N.D.	d	
39) Benzo[a]pyrene	0.000		0	N.D.	d	
40) Indeno[1,2,3-cd]pyrene	0.000		0	N.D.	d	
41) Dibenzo[a,h]anthracene	0.000		0	N.D.	d	
42) Benzo[g,h,i]perylene	0.000		0	N.D.	d	

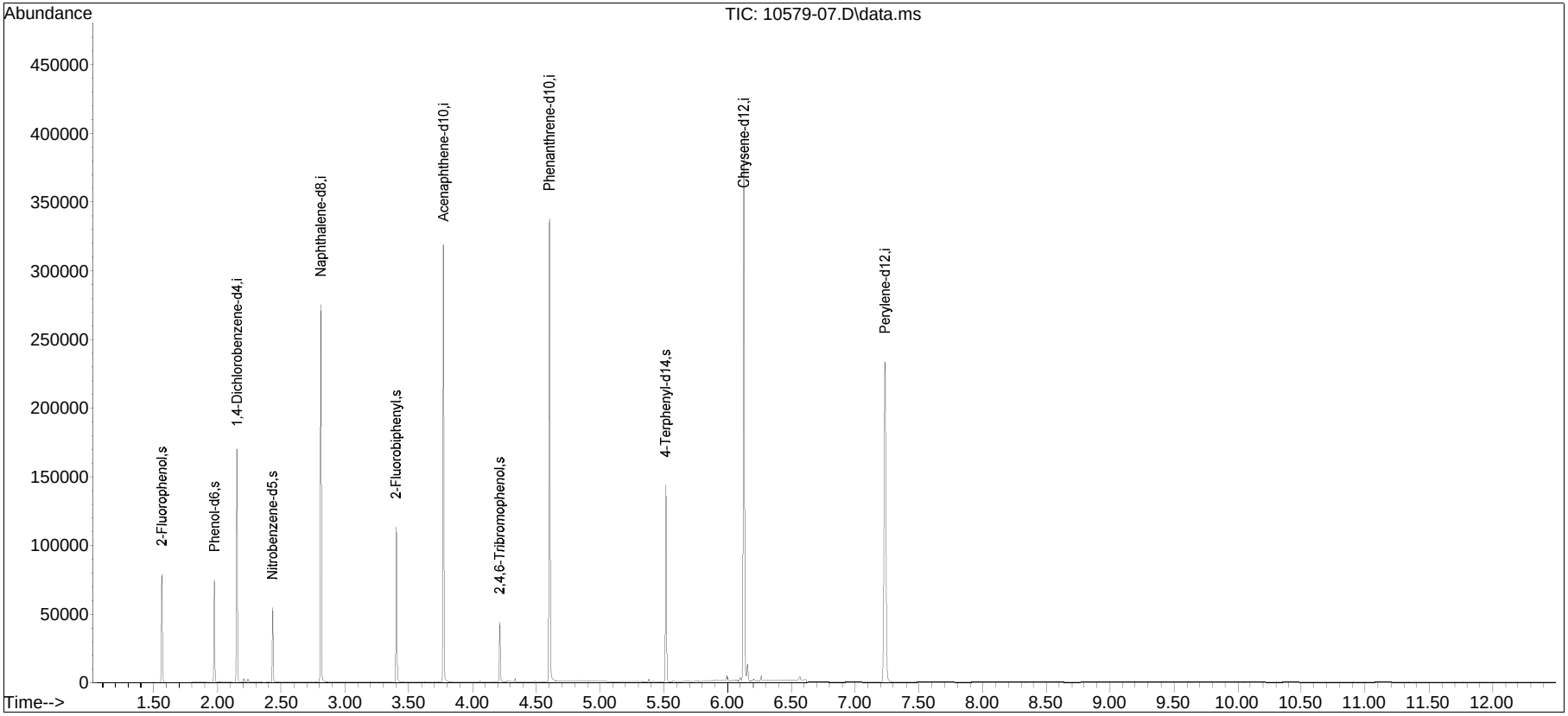
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\240304LVI\
Data File : 10579-07.D
Acq On : 04 Mar 2024 02:53 pm
Operator : sv119:dv
Sample : L2410579-07,32,,ah
Misc : WG1891805,wg1891420,ical20642
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Mar 04 15:19:24 2024
Quant Method : I:\8270sim\sv119\240304LVI\SIM-LVI_231207n_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Mar 04 07:58:51 2024
Response via : Initial Calibration

Sub List : DEFAULT - All compounds listed\ccv0304.D•



Manual Integration Report

Data Path	: I:\8270SIM\sv119\240304LVI	Method	: SIM-LVI_231207n_sv119.M
Data File	: 10579-07.D	Operator	: sv119:dv
Date Inj'd	: 3/4/2024 2:53 pm	Instrument	: SV119
Sample	: L2410579-07,32,,ah	Quant Date	: 3/4/2024 3:09 pm

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV128\240305\
Data File : 10579-01.D
Acq On : 05 Mar 2024 09:58 am
Operator : SV128:jjw
Sample : L2410579-01,32,,RV,ah
Misc : WG1892213,WG1891420,ical20676
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Mar 05 10:41:43 2024
Quant Method : I:\8270sim\sv128\240305\SIM-LVI_231211_sv128.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Mar 05 07:15:56 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv128\240305\ccv0305a.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.269	152	2460	4000.000	ng/ml	0.00
Standard Area 1 = 1565			Recovery = 157.19%			
8) Naphthalene-d8	2.945	136	9386	4000.000	ng/ml	0.00
Standard Area 1 = 5966			Recovery = 157.32%			
17) Acenaphthene-d10	3.940	164	6149	4000.000	ng/ml	0.00
Standard Area 1 = 4044			Recovery = 152.05%			
22) Phenanthrene-d10	4.796	188	15309	4000.000	ng/ml	0.00
Standard Area 1 = 10610			Recovery = 144.29%			
31) Chrysene-d12	6.386	240	15447	4000.000	ng/ml	-0.01
Standard Area 1 = 12274			Recovery = 125.85%			
36) Perylene-d12	7.690	264	17964	4000.000	ng/ml	-0.01
Standard Area 1 = 14188			Recovery = 126.61%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.659	112	1779	2871.816	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 57.44%			
3) Phenol-d6	2.080	99	1834	2533.279	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 50.67%			
7) Nitrobenzene-d5	2.557	82	1198	2047.632	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 81.91%			
13) 2-Fluorobiphenyl	3.552	172	3618	1817.635	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 72.71%			
21) 2,4,6-Tribromophenol	4.395	330	1636	5324.219	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 106.48%			
30) 4-Terphenyl-d14	5.729	244	7155	2243.356	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 89.73%			
Target Compounds						Qvalue
6) Hexachloroethane	0.000		0	N.D.		
9) Naphthalene	2.957	128	125M6	51.933	ng/ml	
10) Hexachlorobutadiene	0.000		0	N.D.		
11) 2-Methylnaphthalene	3.345	142	16M7	10.406	ng/ml	
14) 2-Chloronaphthalene	0.000		0	N.D. d		
16) Acenaphthylene	3.858	152	9M7	3.629	ng/ml	
18) Acenaphthene	3.956	153	27M6	12.989	ng/ml	
20) Fluorene	4.255	166	28M6	13.347	ng/ml	
24) Hexachlorobenzene	0.000		0	N.D. d		
25) Pentachlorophenol	4.693	266	14	49.883	ng/ml	97

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV128\240305\
Data File : 10579-01.D
Acq On : 05 Mar 2024 09:58 am
Operator : SV128:jjw
Sample : L2410579-01,32,,RV,ah
Misc : WG1892213,WG1891420,ical20676
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Mar 05 10:41:43 2024
Quant Method : I:\8270sim\sv128\240305\SIM-LVI_231211_sv128.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Mar 05 07:15:56 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv128\240305\ccv0305a.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Phenanthrene	4.808	178	31M1	7.488	ng/ml	
27) Anthracene	4.837	178	40M1	10.000	ng/ml	
28) Fluoranthene	5.502	202	28M1	6.156	ng/ml	
29) Pyrene	5.633	202	30M6	6.375	ng/ml	
32) Benzo[a]anthracene	6.386	228	68	5.746	ng/ml	98
34) Chrysene	6.405	228	31	5.821	ng/ml#	85
37) Benzo[b]fluoranthene	0.000		0	N.D.	d	
38) Benzo[k]fluoranthene	0.000		0	N.D.	d	
39) Benzo[a]pyrene	7.621	252	13M7	2.654	ng/ml	
40) Indeno[1,2,3-cd]pyrene	9.000	276	61	12.453	ng/ml	99
41) Dibenzo[a,h]anthracene	9.041	278	55M7	11.561	ng/ml	
42) Benzo[g,h,i]perylene	9.363	276	57M6	11.195	ng/ml	

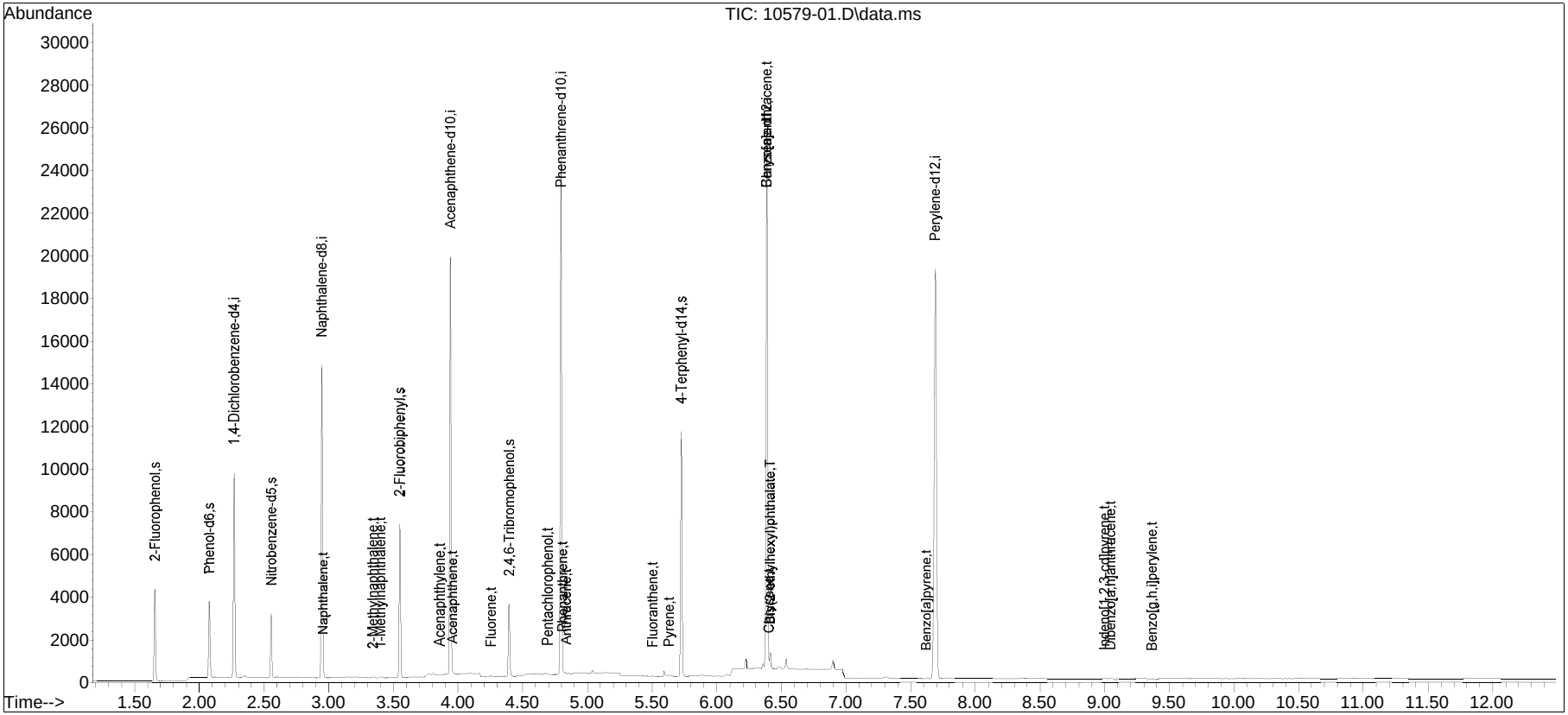
(#) = qualifier out of range (m) = manual integration (+) = signals summed

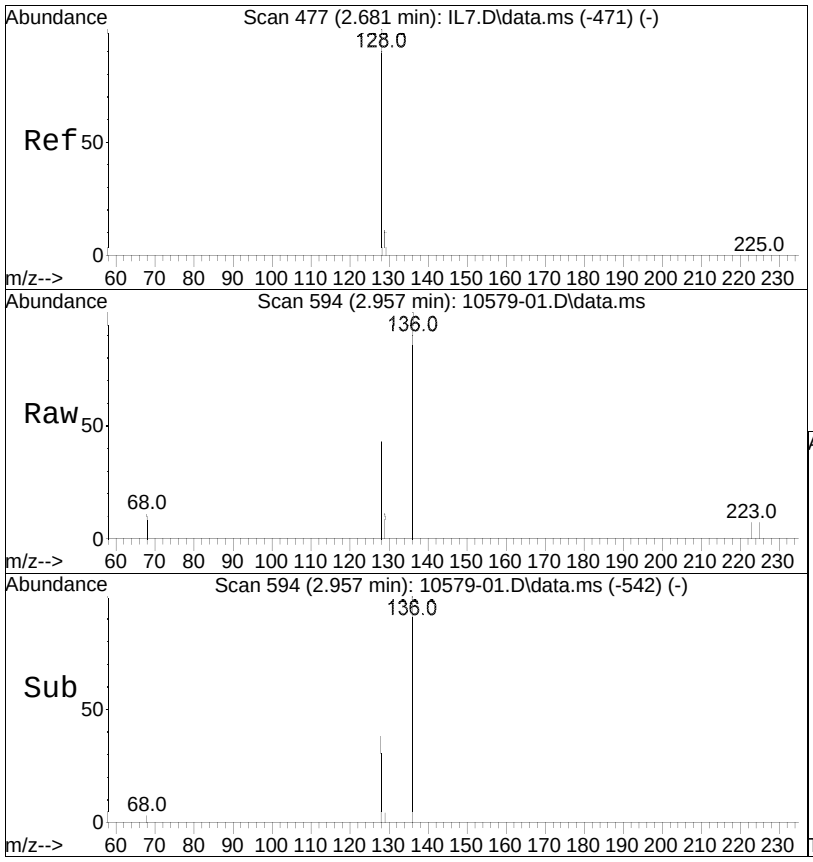
Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV128\240305\
Data File : 10579-01.D
Acq On : 05 Mar 2024 09:58 am
Operator : SV128:jjw
Sample : L2410579-01,32,,RV,ah
Misc : WG1892213,WG1891420,ical20676
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Mar 05 10:41:43 2024
Quant Method : I:\8270sim\sv128\240305\SIM-LVI_231211_sv128.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Mar 05 07:15:56 2024
Response via : Initial Calibration

Sub List : DEFAULT - All compounds listedv0305a.D•

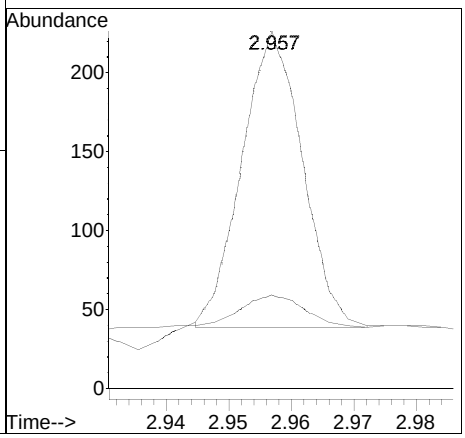


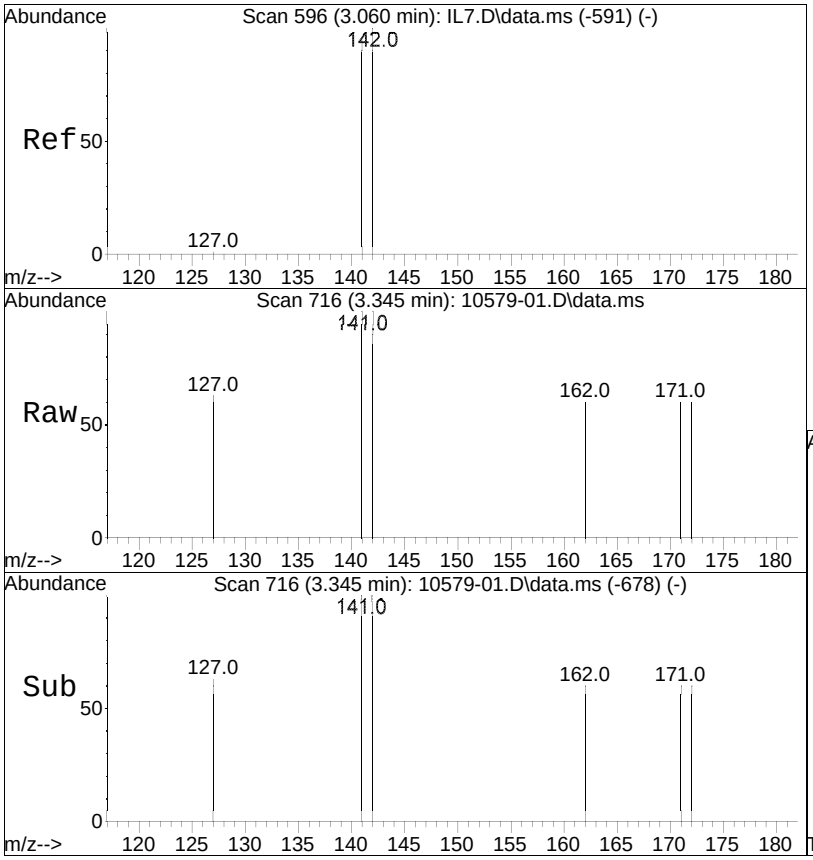


#9
Naphthalene
Concen: 51.93 ng/ml M6
RT: 2.957 min Scan# 594
Delta R.T. 0.000 min
Lab File: 10579-01.D
Acq: 05 Mar 2024 09:58 am

Tgt Ion:128 Resp: 125

Ion	Ratio	Lower	Upper
128	100		
129	11.2	8.8	13.2
127	0.0	0.0	0.0

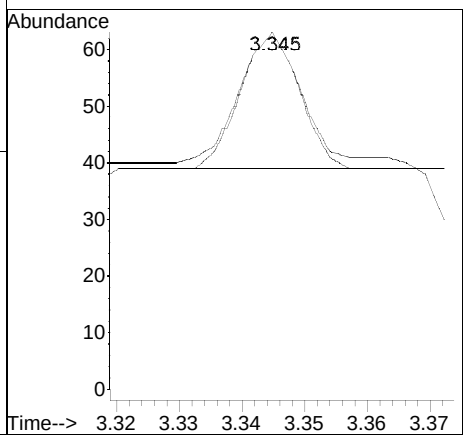


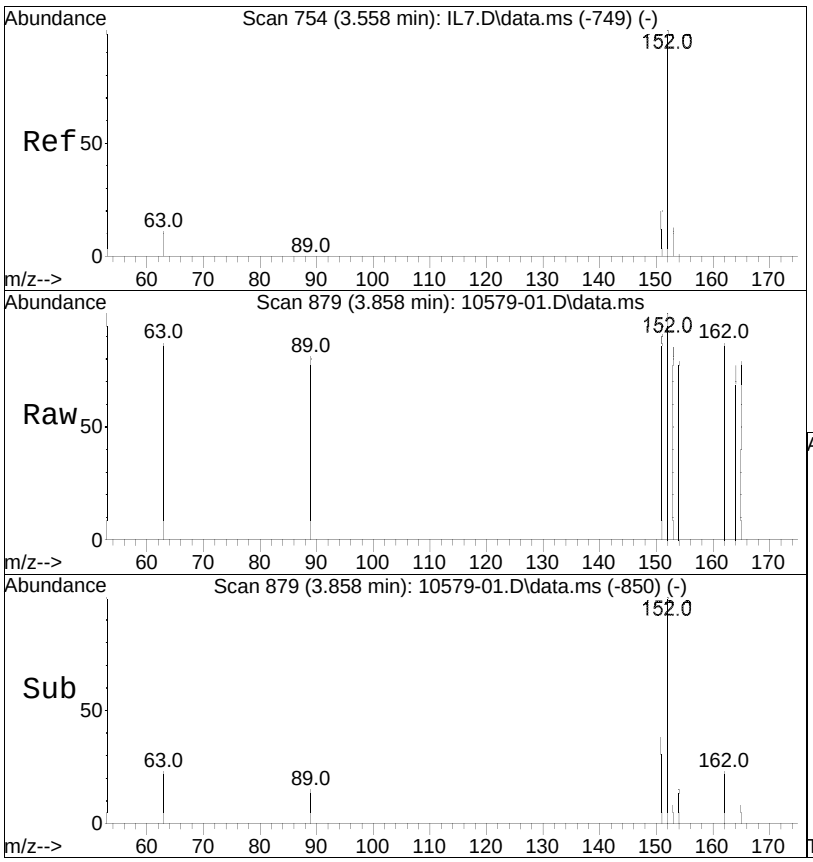


#11
2-Methylnaphthalene
Concen: 10.41 ng/ml M7
RT: 3.345 min Scan# 716
Delta R.T. 0.000 min
Lab File: 10579-01.D
Acq: 05 Mar 2024 09:58 am

Tgt Ion:142 Resp: 16

Ion	Ratio	Lower	Upper
142	100		
141	93.8	75.9	113.9

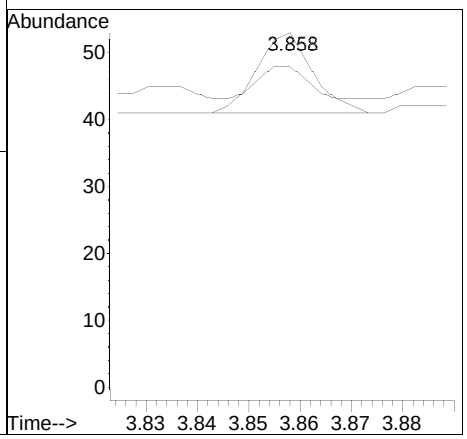


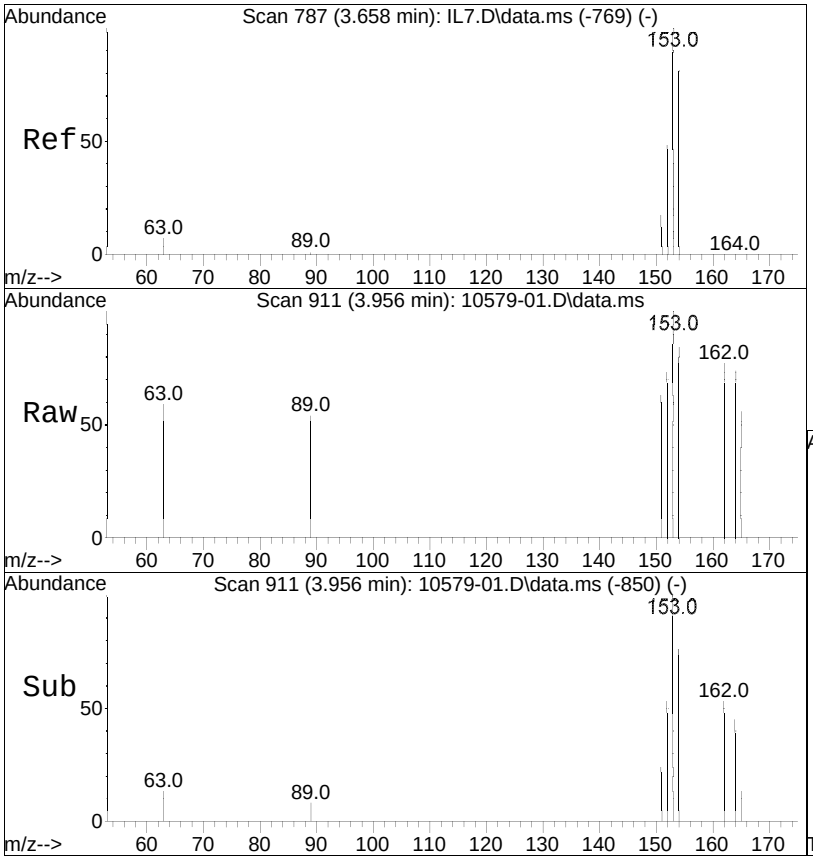


#16
Acenaphthylene
Concen: 3.63 ng/ml M7
RT: 3.858 min Scan# 879
Delta R.T. -0.003 min
Lab File: 10579-01.D
Acq: 05 Mar 2024 09:58 am

Tgt Ion:152 Resp: 9

Ion	Ratio	Lower	Upper
152	100		
151	33.3	16.4	24.6#

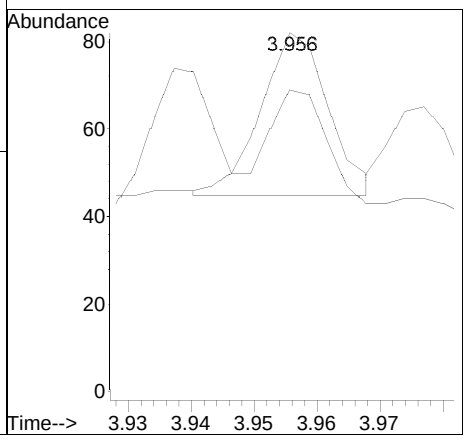


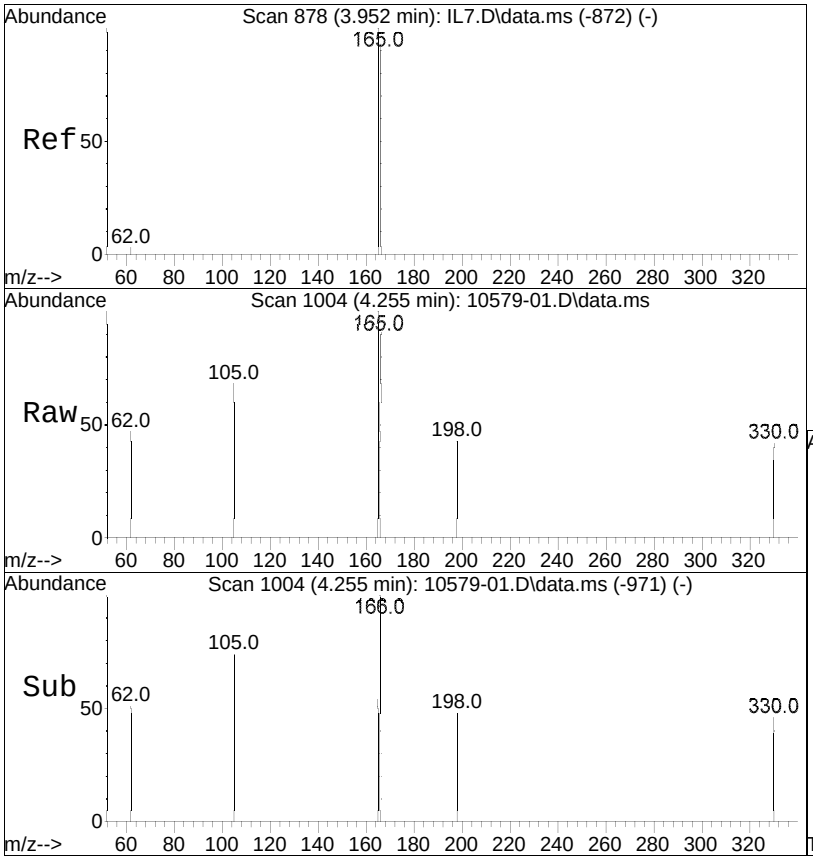


#18
Acenaphthene
Concen: 12.99 ng/ml M6
RT: 3.956 min Scan# 911
Delta R.T. -0.006 min
Lab File: 10579-01.D
Acq: 05 Mar 2024 09:58 am

Tgt Ion:153 Resp: 27

Ion	Ratio	Lower	Upper
153	100		
154	70.4	65.8	98.6

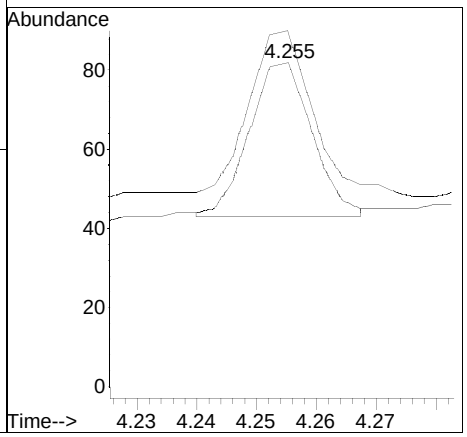


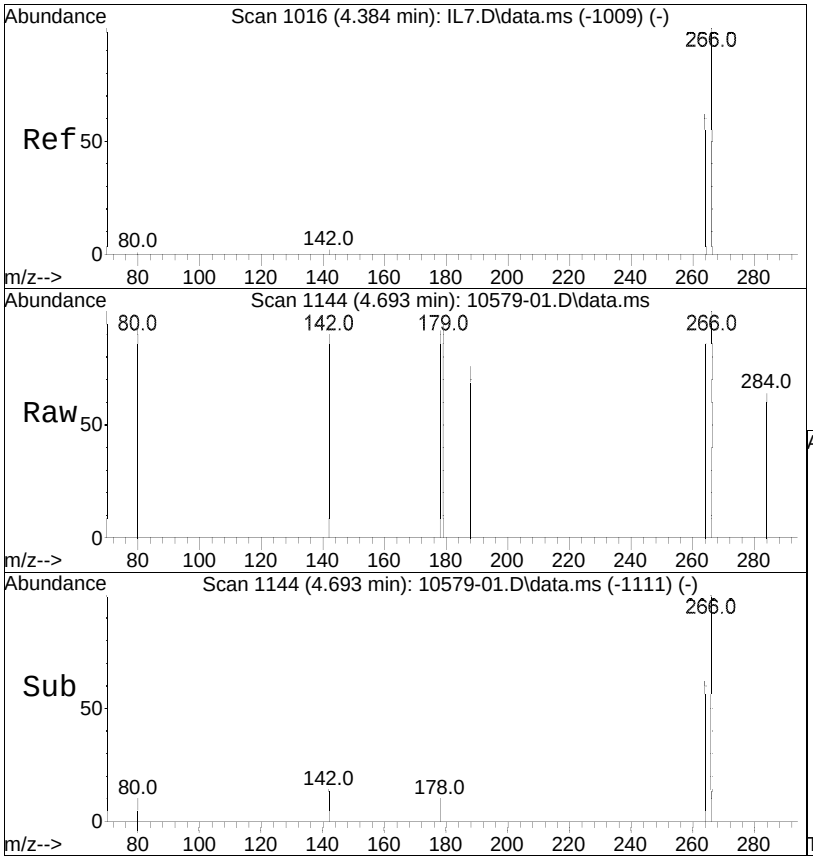


#20
Fluorene
Concen: 13.35 ng/ml M6
RT: 4.255 min Scan# 1004
Delta R.T. -0.003 min
Lab File: 10579-01.D
Acq: 05 Mar 2024 09:58 am

Tgt Ion:166 Resp: 28

Ion	Ratio	Lower	Upper
166	100		
165	114.3	85.7	128.5

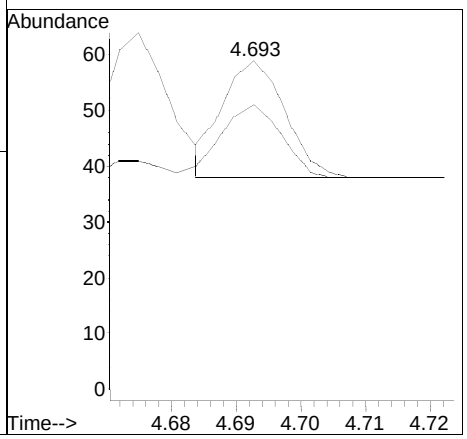


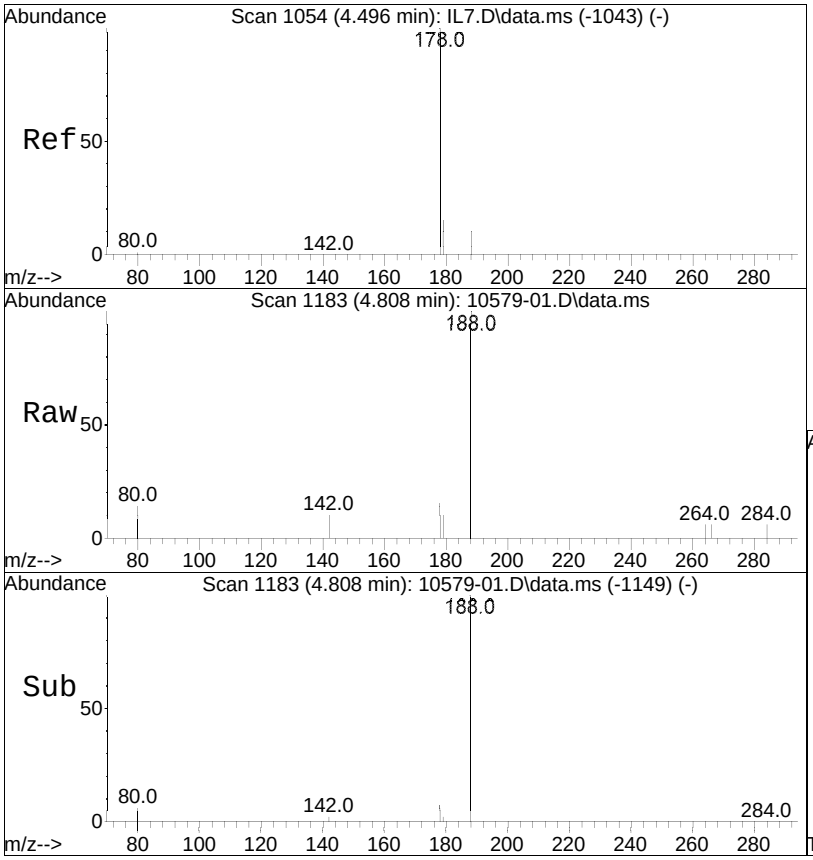


#25
Pentachlorophenol
Concen: 49.88 ng/ml
RT: 4.693 min Scan# 1144
Delta R.T. -0.006 min
Lab File: 10579-01.D
Acq: 05 Mar 2024 09:58 am

Tgt Ion:266 Resp: 14

Ion	Ratio	Lower	Upper
266	100		
264	64.3	49.7	74.5

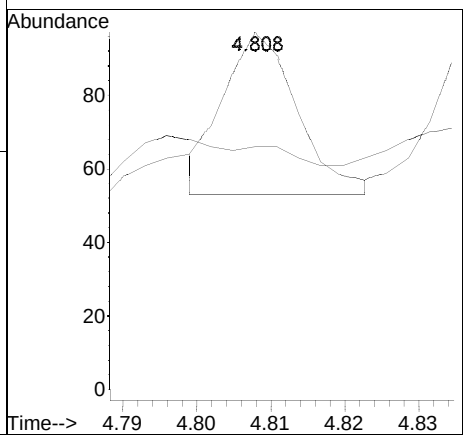


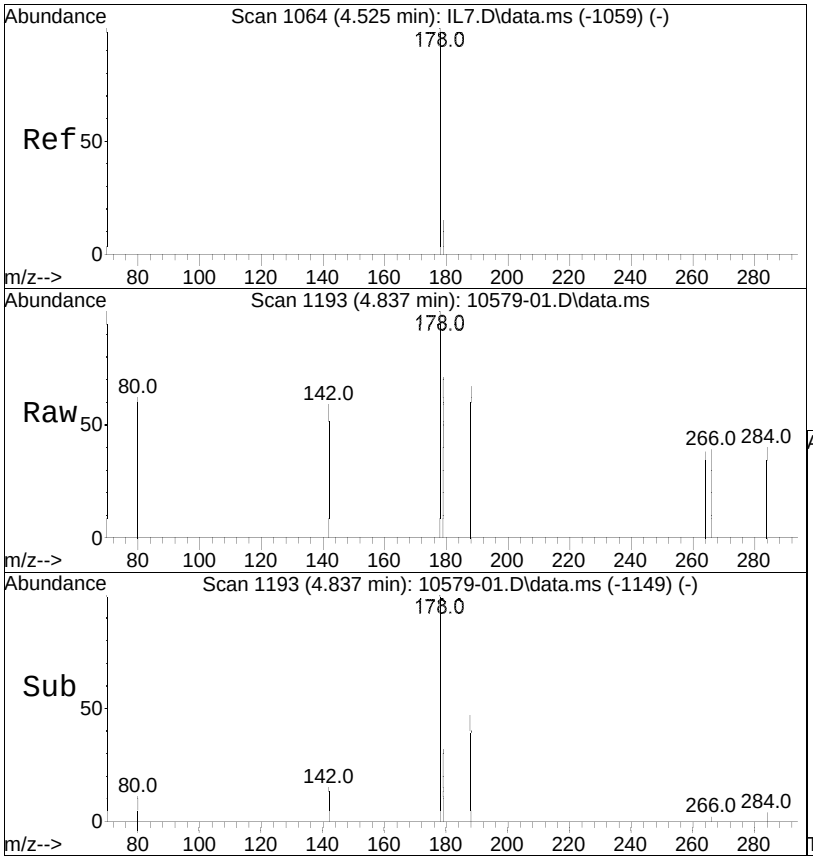


#26
Phenanthrene
Concen: 7.49 ng/ml M1
RT: 4.808 min Scan# 1183
Delta R.T. -0.006 min
Lab File: 10579-01.D
Acq: 05 Mar 2024 09:58 am

Tgt Ion:178 Resp: 31

Ion	Ratio	Lower	Upper
178	100		
179	19.4	12.2	18.4#

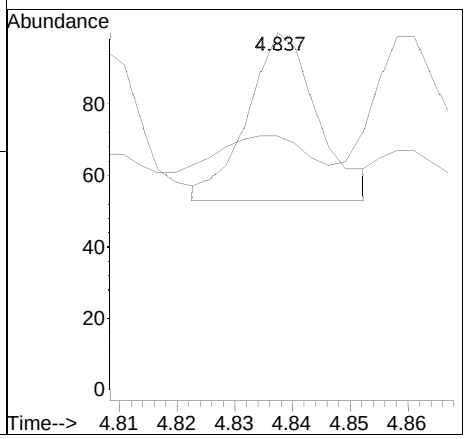


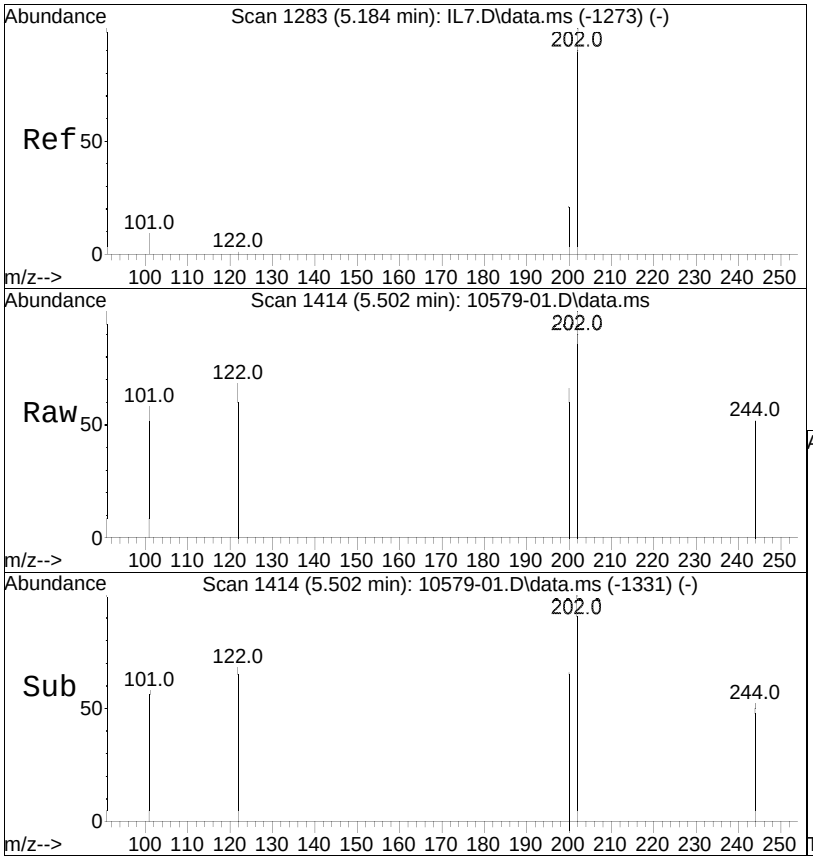


#27
Anthracene
Concen: 10.00 ng/ml M1
RT: 4.837 min Scan# 1193
Delta R.T. -0.006 min
Lab File: 10579-01.D
Acq: 05 Mar 2024 09:58 am

Tgt Ion:178 Resp: 40

Ion	Ratio	Lower	Upper
178	100		
179	30.0	12.2	18.2#

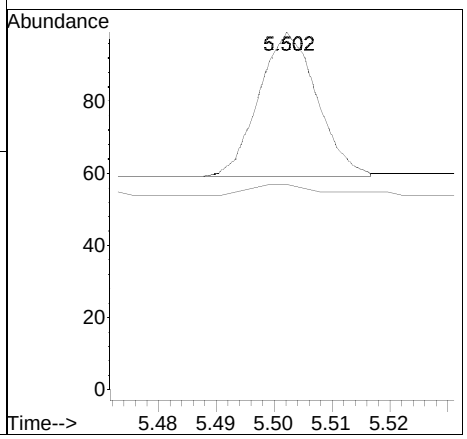


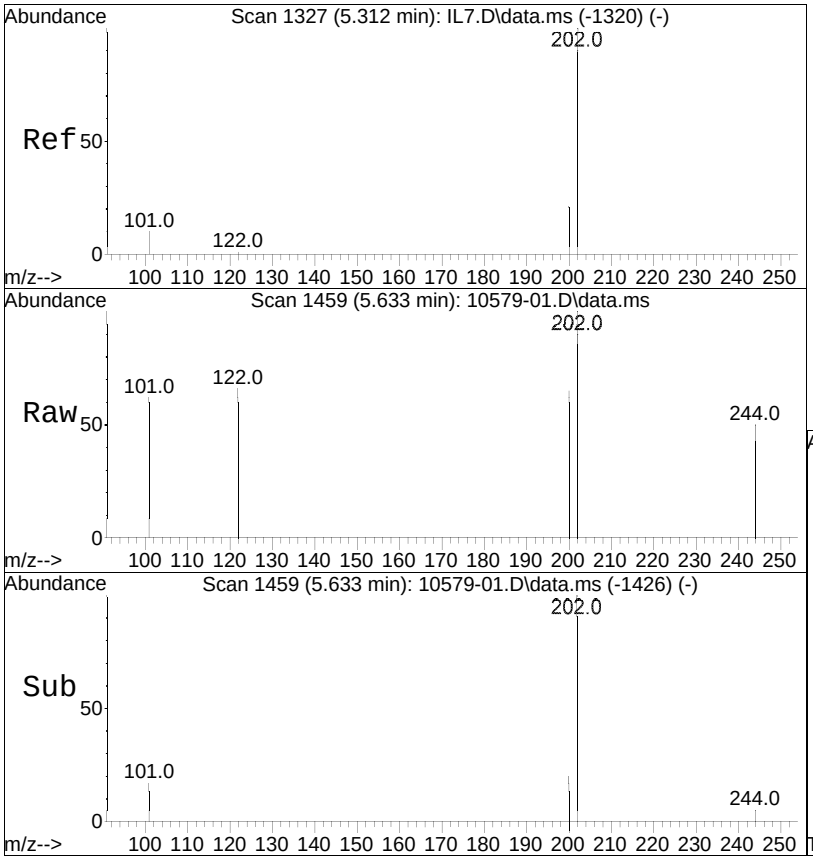


#28
Fluoranthene
Concen: 6.16 ng/ml M1
RT: 5.502 min Scan# 1414
Delta R.T. -0.009 min
Lab File: 10579-01.D
Acq: 05 Mar 2024 09:58 am

Tgt Ion:202 Resp: 28

Ion	Ratio	Lower	Upper
202	100		
101	10.7	7.2	10.8

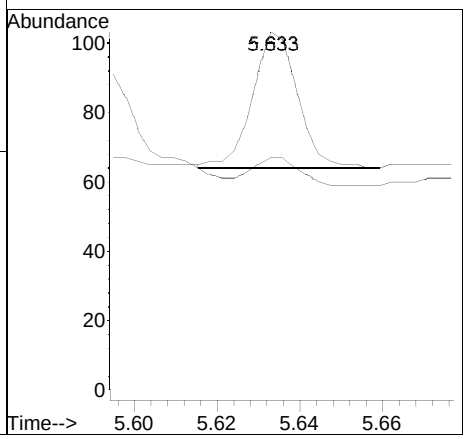


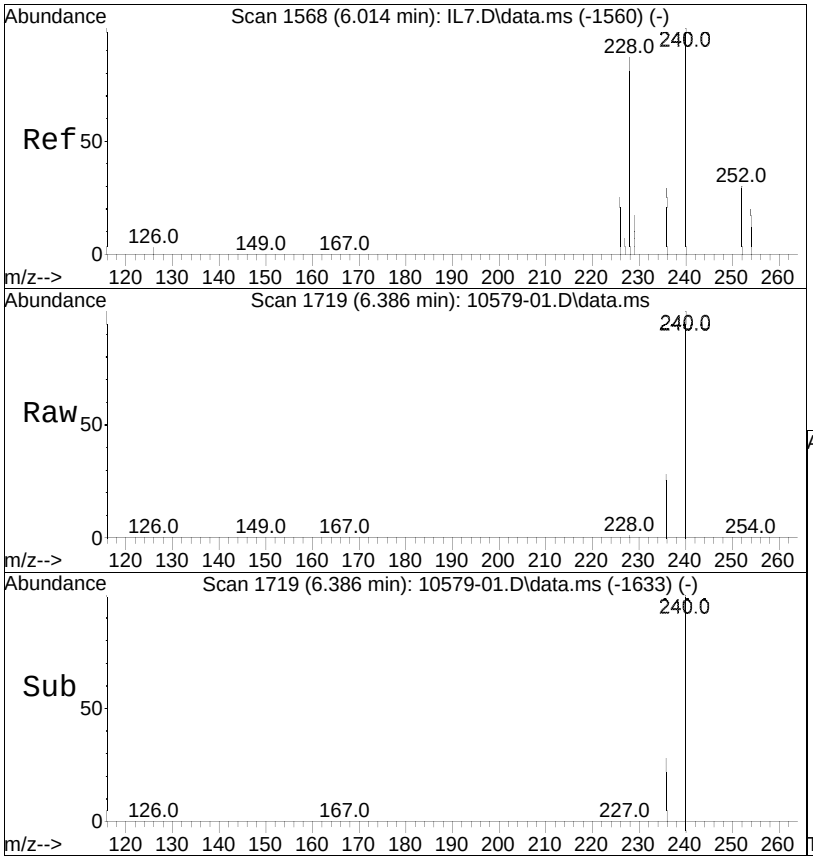


#29
Pyrene
Concen: 6.38 ng/ml M6
RT: 5.633 min Scan# 1459
Delta R.T. -0.009 min
Lab File: 10579-01.D
Acq: 05 Mar 2024 09:58 am

Tgt Ion:202 Resp: 30

Ion	Ratio	Lower	Upper
202	100		
200	20.0	17.7	26.5

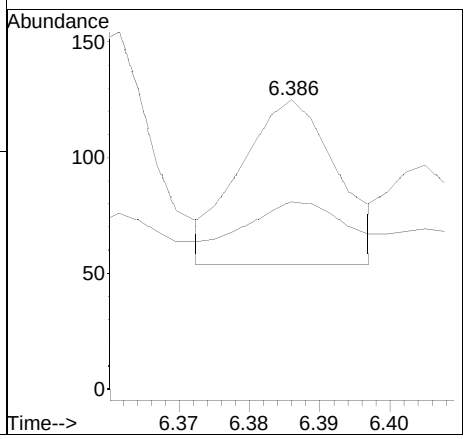


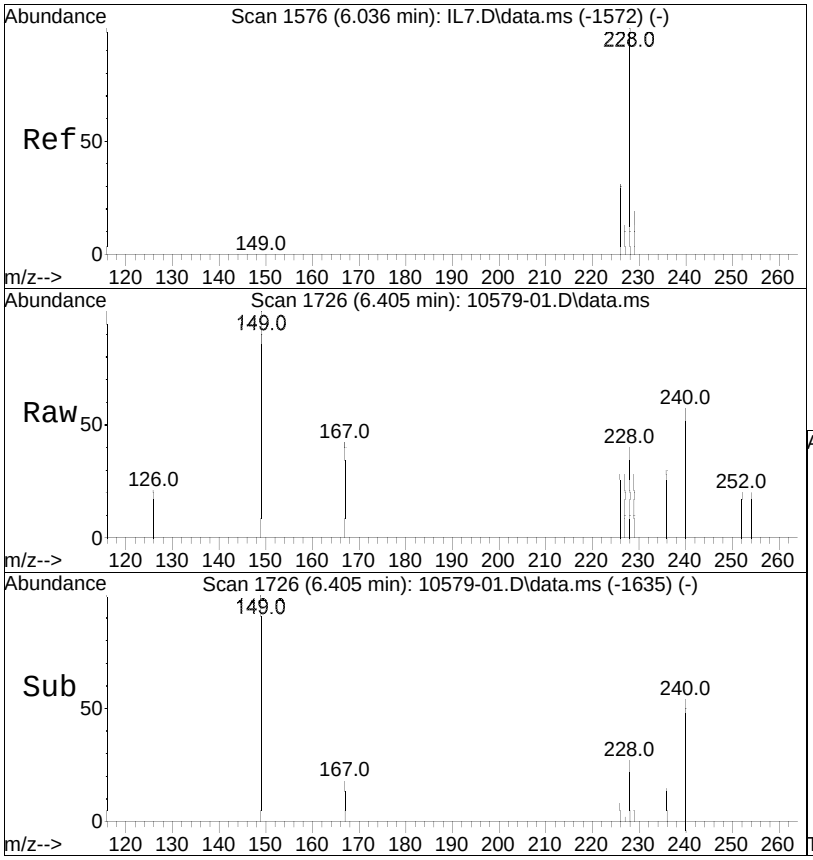


#32
Benzo[a]anthracene
Concen: 5.75 ng/ml
RT: 6.386 min Scan# 1719
Delta R.T. -0.002 min
Lab File: 10579-01.D
Acq: 05 Mar 2024 09:58 am

Tgt Ion:228 Resp: 68

Ion	Ratio	Lower	Upper
228	100		
229	20.6	15.7	23.5

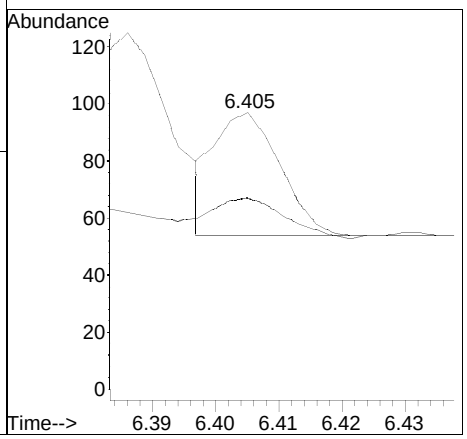


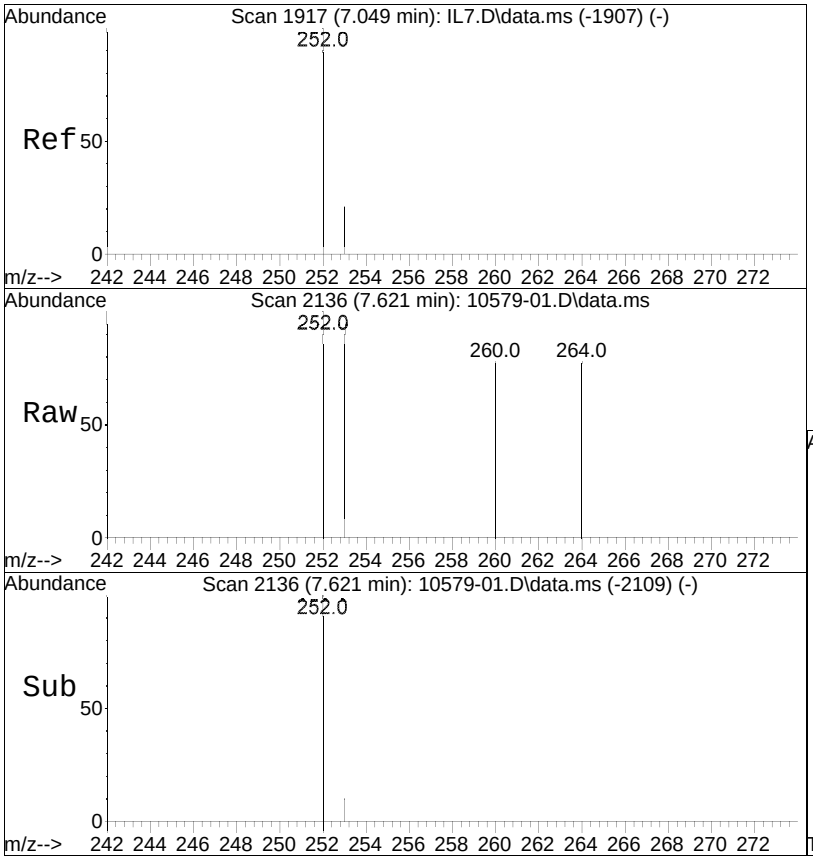


#34
Chrysene
Concen: 5.82 ng/ml
RT: 6.405 min Scan# 1726
Delta R.T. -0.011 min
Lab File: 10579-01.D
Acq: 05 Mar 2024 09:58 am

Tgt Ion:228 Resp: 31

Ion	Ratio	Lower	Upper
228	100		
226	38.7	24.6	36.8#

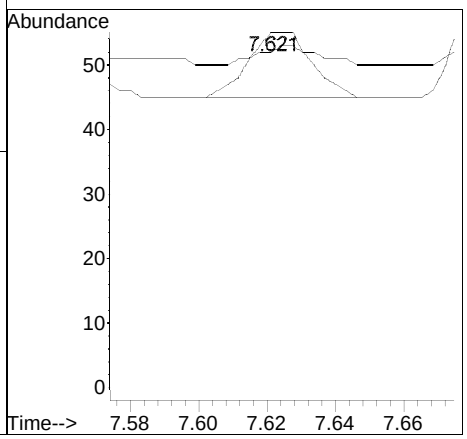


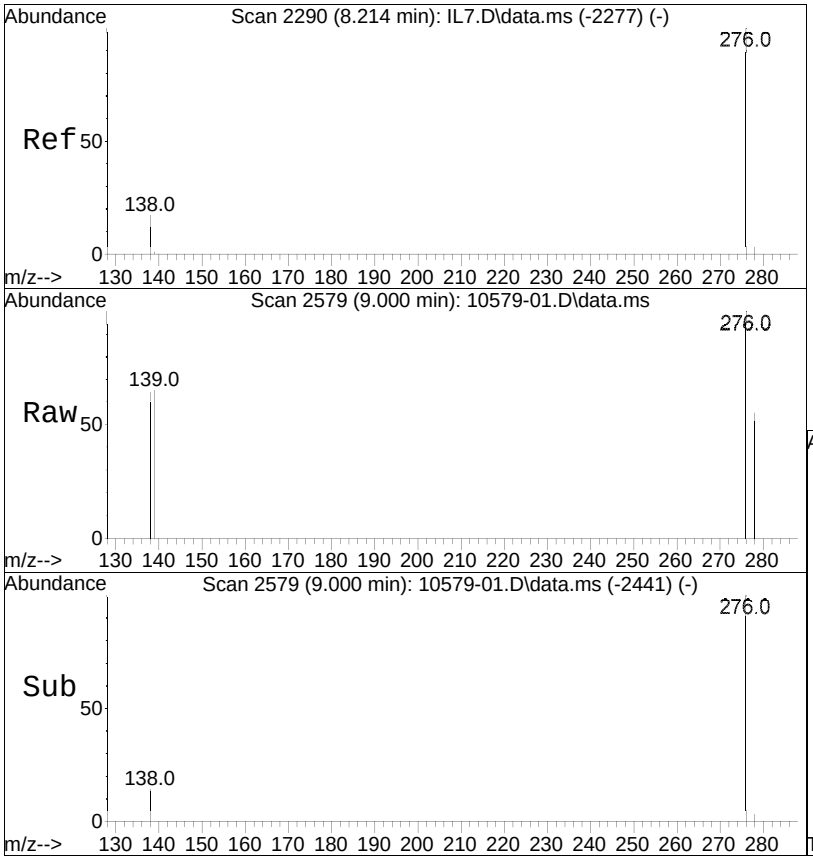


#39
Benzo[a]pyrene
Concen: 2.65 ng/ml M7
RT: 7.621 min Scan# 2136
Delta R.T. -0.016 min
Lab File: 10579-01.D
Acq: 05 Mar 2024 09:58 am

Tgt Ion:252 Resp: 13

Ion	Ratio	Lower	Upper
252	100		
253	30.8	17.3	25.9#

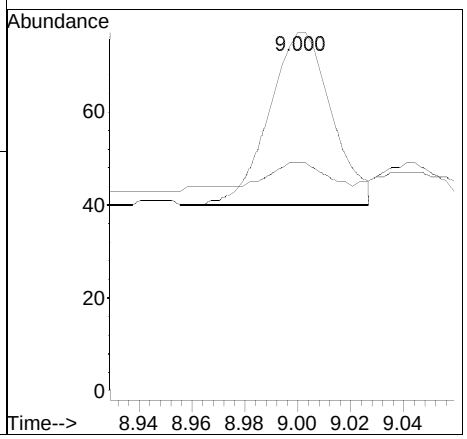


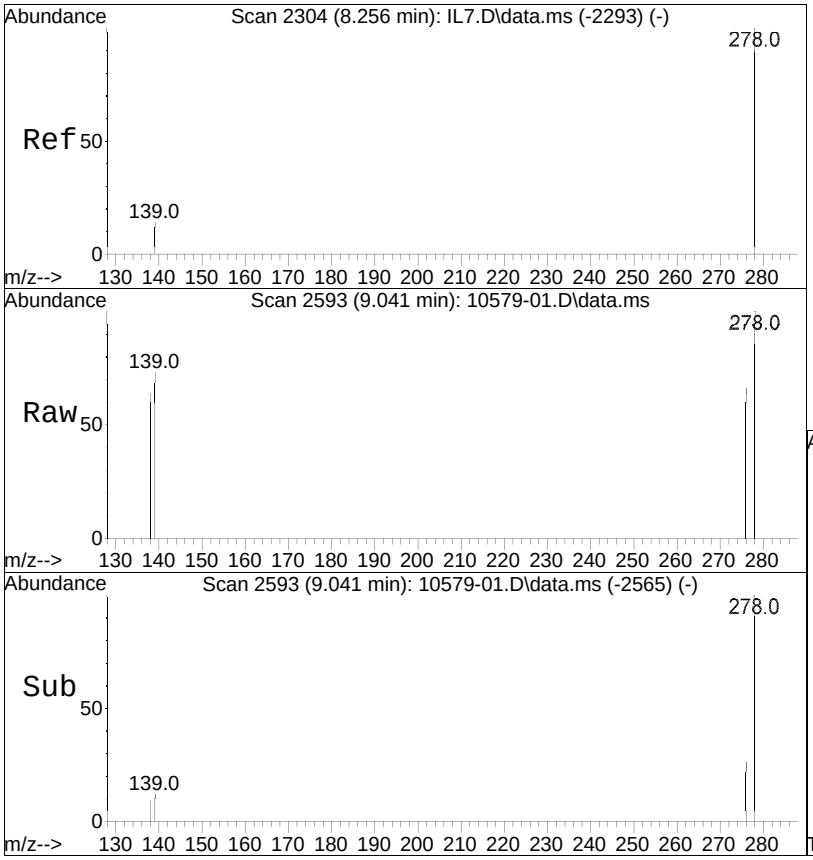


#40
Indeno[1,2,3-cd]pyrene
Concen: 12.45 ng/ml
RT: 9.000 min Scan# 2579
Delta R.T. -0.021 min
Lab File: 10579-01.D
Acq: 05 Mar 2024 09:58 am

Tgt Ion:276 Resp: 61

Ion	Ratio	Lower	Upper
276	100		
138	16.4	13.4	20.2

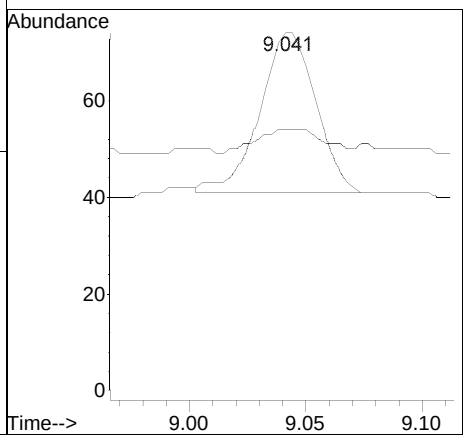


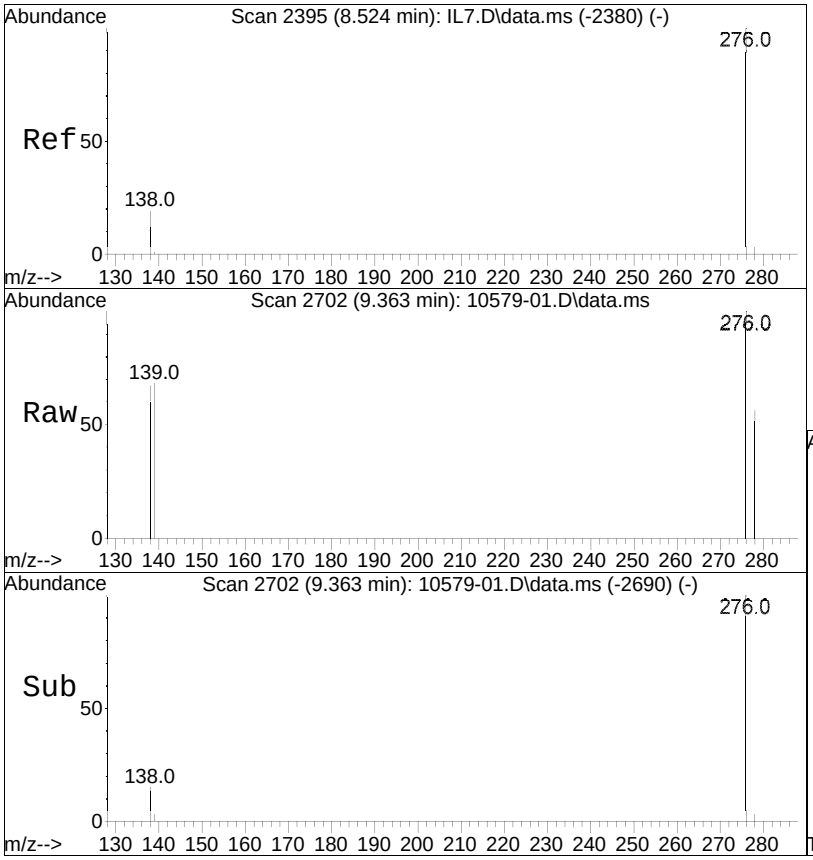


#41
Dibenzo[a,h]anthracene
Concen: 11.56 ng/ml M7
RT: 9.041 min Scan# 2593
Delta R.T. -0.018 min
Lab File: 10579-01.D
Acq: 05 Mar 2024 09:58 am

Tgt Ion:278 Resp: 55

Ion	Ratio	Lower	Upper
278	100		
139	18.2	10.9	16.3#

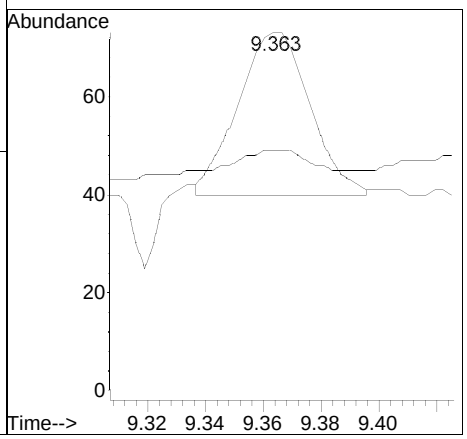




#42
Benzo[g,h,i]perylene
Concen: 11.20 ng/ml M6
RT: 9.363 min Scan# 2702
Delta R.T. -0.015 min
Lab File: 10579-01.D
Acq: 05 Mar 2024 09:58 am

Tgt Ion:276 Resp: 57

Ion	Ratio	Lower	Upper
276	100		
138	15.8	14.8	22.2

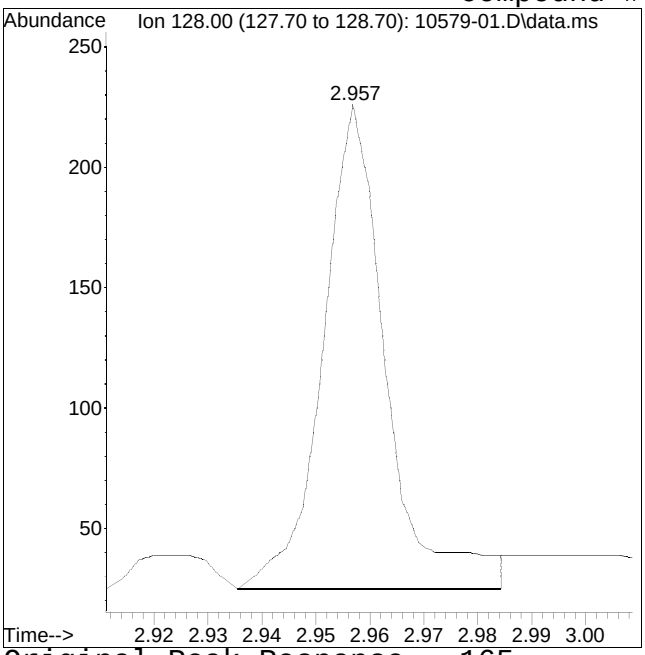


Manual Integration Report

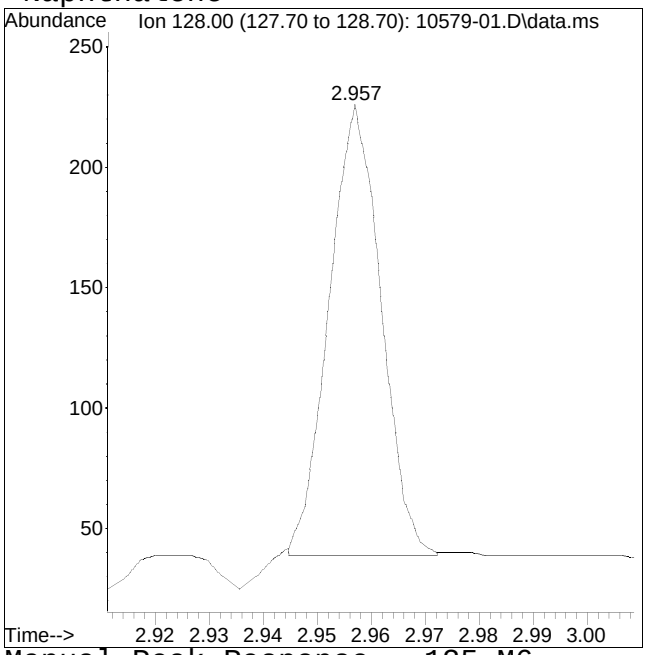
Data Path : I:\8270SIM\SV128\240305\
Data File : 10579-01.D
Date Inj'd : 3/5/2024 9:58 am
Sample : L2410579-01,32,,RV,ah

QMethod : SIM-LVI_231211_sv128.M
Operator : SV128:jjw
Instrument : SV128
Quant Date : 3/5/2024 10:11 am

Compound #9: Naphthalene



Original Peak Response = 165



Manual Peak Response = 125 M6

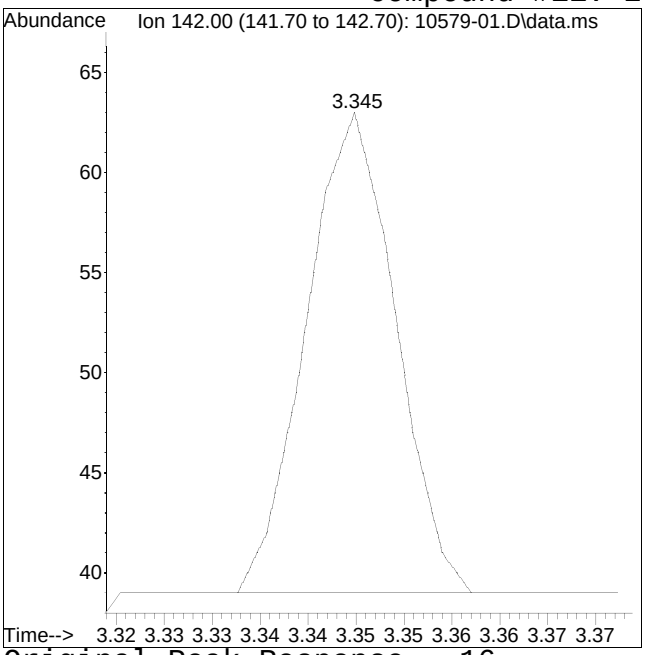
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

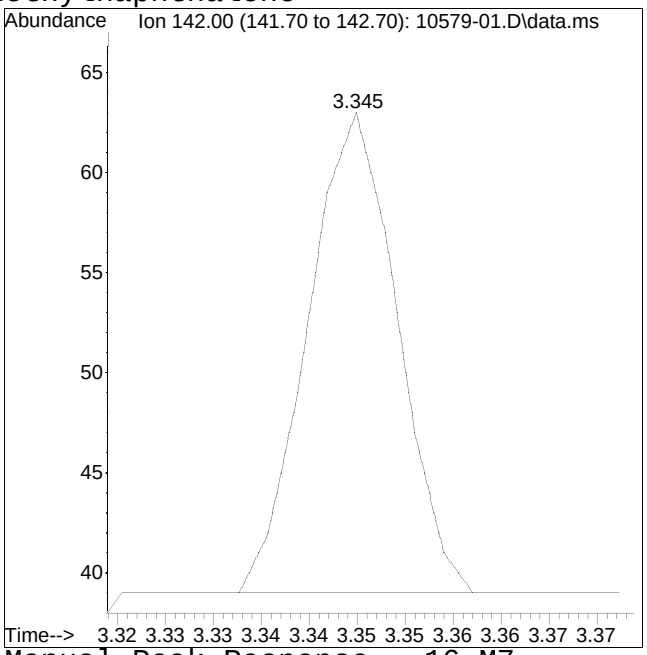
Data Path : I:\8270SIM\SV128\240305\
Data File : 10579-01.D
Date Inj'd : 3/5/2024 9:58 am
Sample : L2410579-01,32,,RV,ah

QMethod : SIM-LVI_231211_sv128.M
Operator : SV128:jjw
Instrument : SV128
Quant Date : 3/5/2024 10:11 am

Compound #11: 2-Methylnaphthalene



Original Peak Response = 16



Manual Peak Response = 16 M7

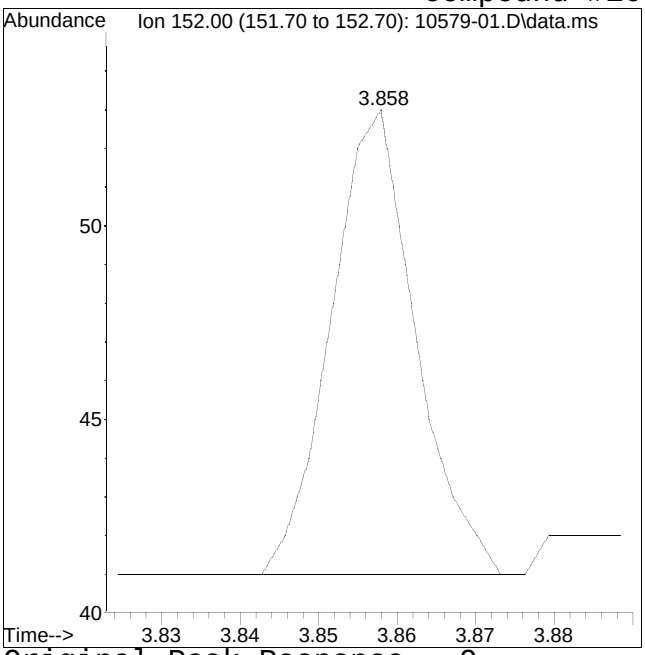
M7 = A qualifier ion was manually integrated (only for GC/MS data).

Manual Integration Report

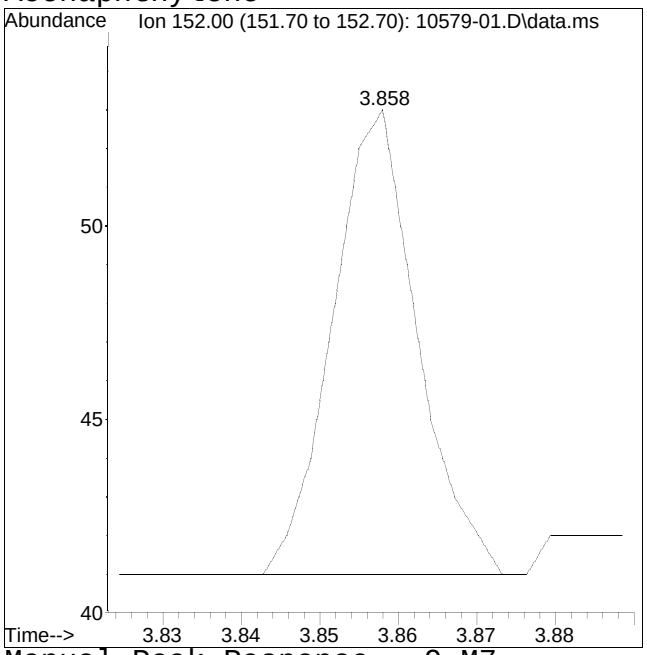
Data Path : I:\8270SIM\SV128\240305\
Data File : 10579-01.D
Date Inj'd : 3/5/2024 9:58 am
Sample : L2410579-01,32,,RV,ah

QMethod : SIM-LVI_231211_sv128.M
Operator : SV128:jjw
Instrument : SV128
Quant Date : 3/5/2024 10:11 am

Compound #16: Acenaphthylene



Original Peak Response = 9



Manual Peak Response = 9 M7

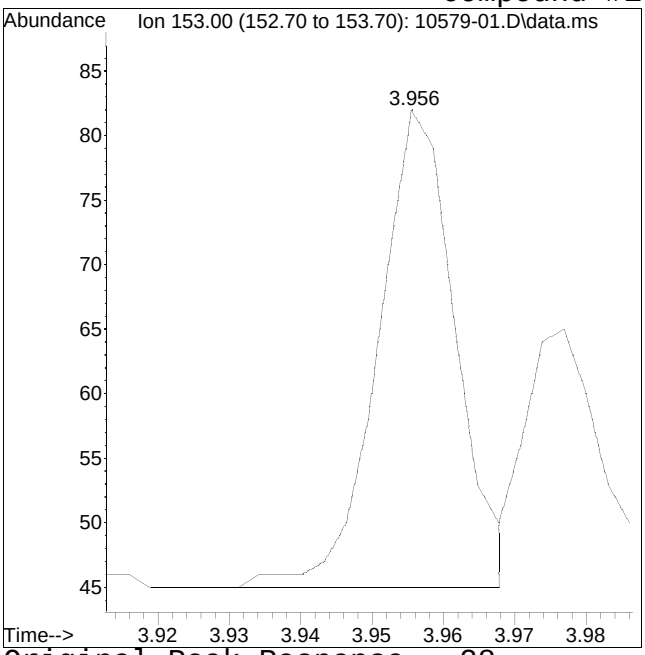
M7 = A qualifier ion was manually integrated (only for GC/MS data).

Manual Integration Report

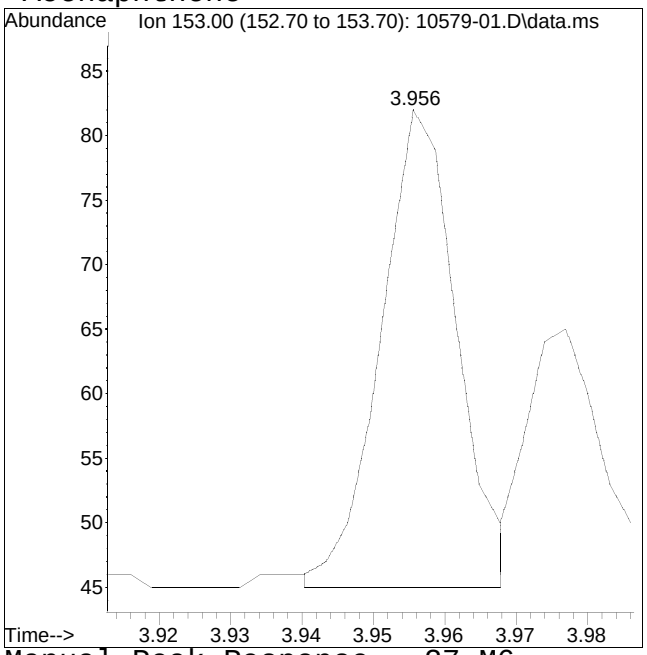
Data Path : I:\8270SIM\SV128\240305\
Data File : 10579-01.D
Date Inj'd : 3/5/2024 9:58 am
Sample : L2410579-01,32,,RV,ah

QMethod : SIM-LVI_231211_sv128.M
Operator : SV128:jjw
Instrument : SV128
Quant Date : 3/5/2024 10:11 am

Compound #18: Acenaphthene



Original Peak Response = 28



Manual Peak Response = 27 M6

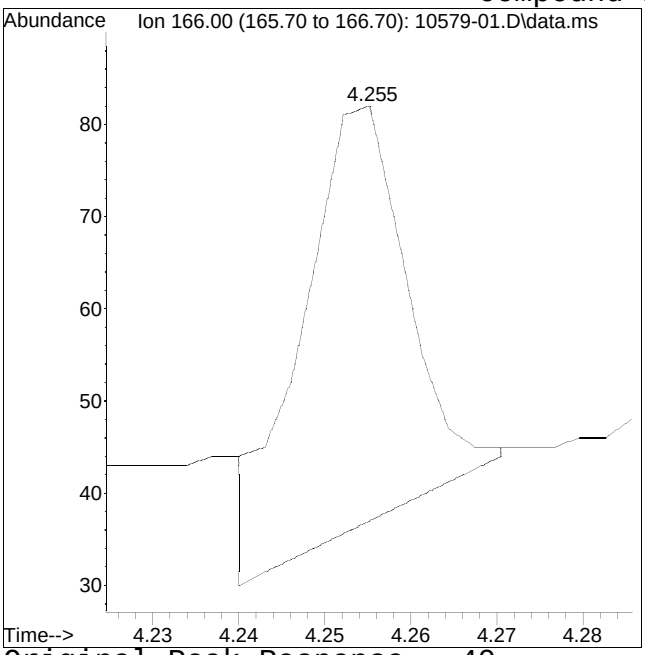
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

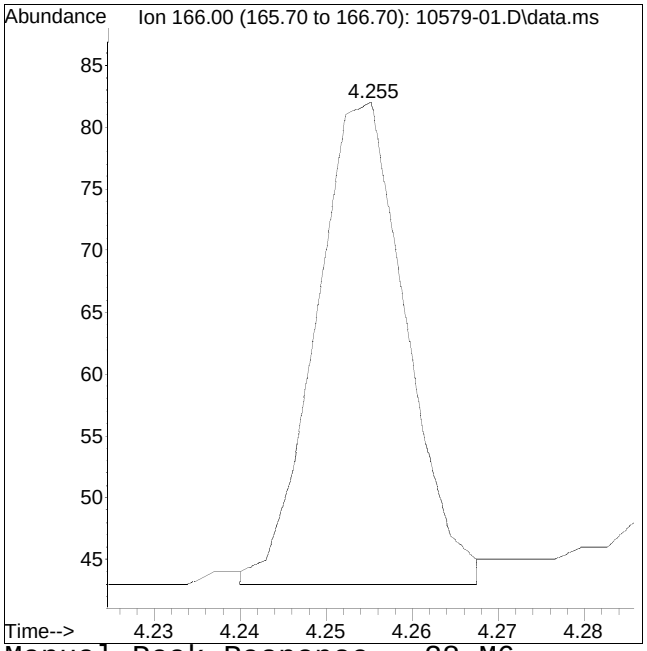
Data Path : I:\8270SIM\SV128\240305\
Data File : 10579-01.D
Date Inj'd : 3/5/2024 9:58 am
Sample : L2410579-01,32,,RV,ah

QMethod : SIM-LVI_231211_sv128.M
Operator : SV128:jjw
Instrument : SV128
Quant Date : 3/5/2024 10:11 am

Compound #20: Fluorene



Original Peak Response = 40



Manual Peak Response = 28 M6

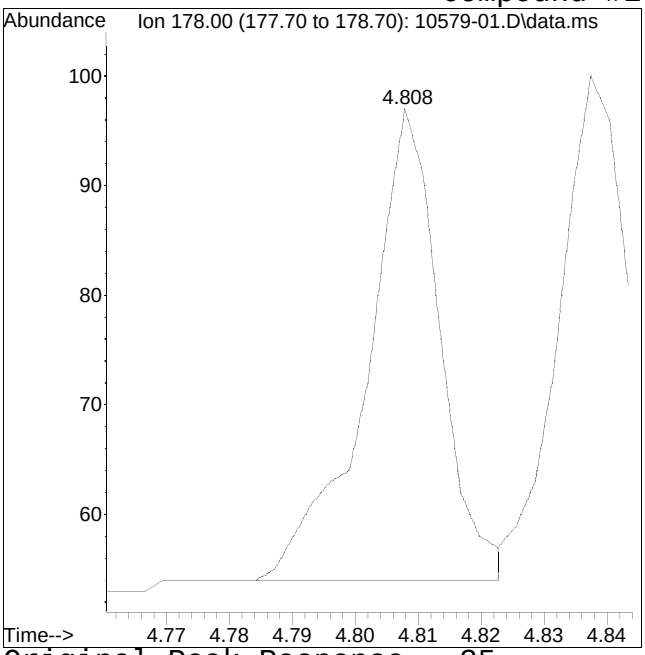
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

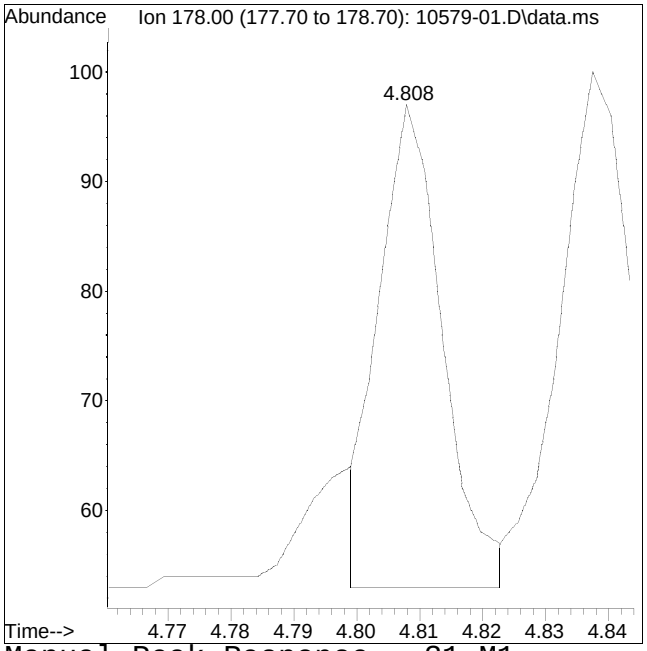
Data Path : I:\8270SIM\SV128\240305\
Data File : 10579-01.D
Date Inj'd : 3/5/2024 9:58 am
Sample : L2410579-01,32,,RV,ah

QMethod : SIM-LVI_231211_sv128.M
Operator : SV128:jjw
Instrument : SV128
Quant Date : 3/5/2024 10:11 am

Compound #26: Phenanthrene



Original Peak Response = 35



Manual Peak Response = 31 M1

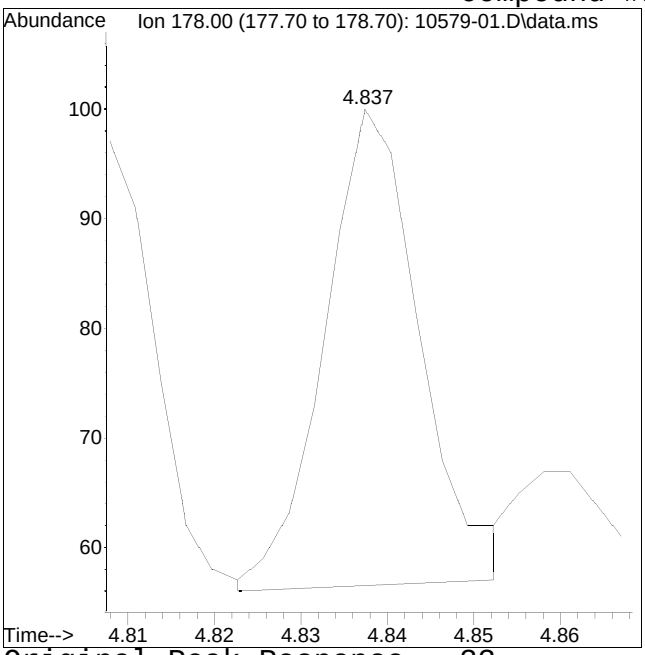
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

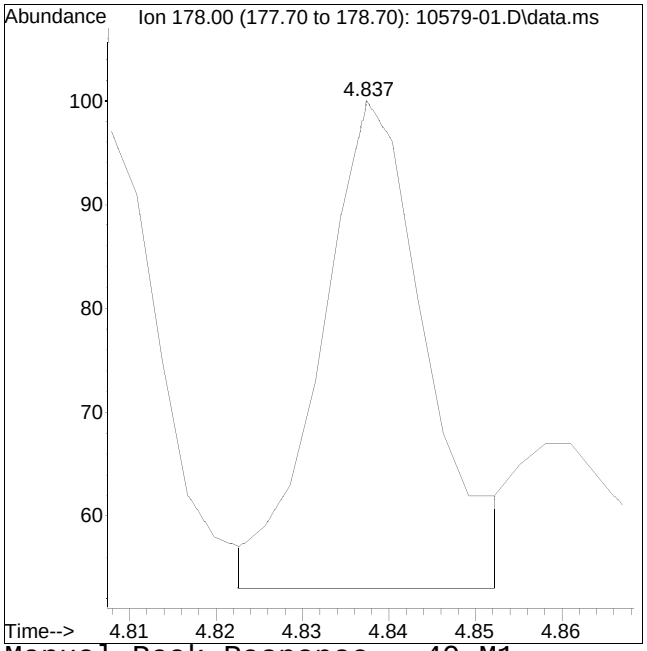
Data Path : I:\8270SIM\SV128\240305\
Data File : 10579-01.D
Date Inj'd : 3/5/2024 9:58 am
Sample : L2410579-01,32,,RV,ah

QMethod : SIM-LVI_231211_sv128.M
Operator : SV128:jjw
Instrument : SV128
Quant Date : 3/5/2024 10:11 am

Compound #27: Anthracene



Original Peak Response = 33



Manual Peak Response = 40 M1

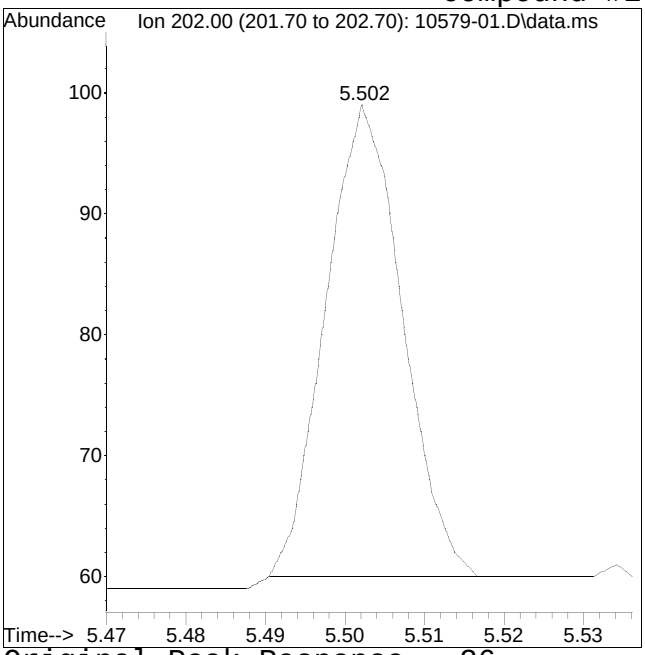
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

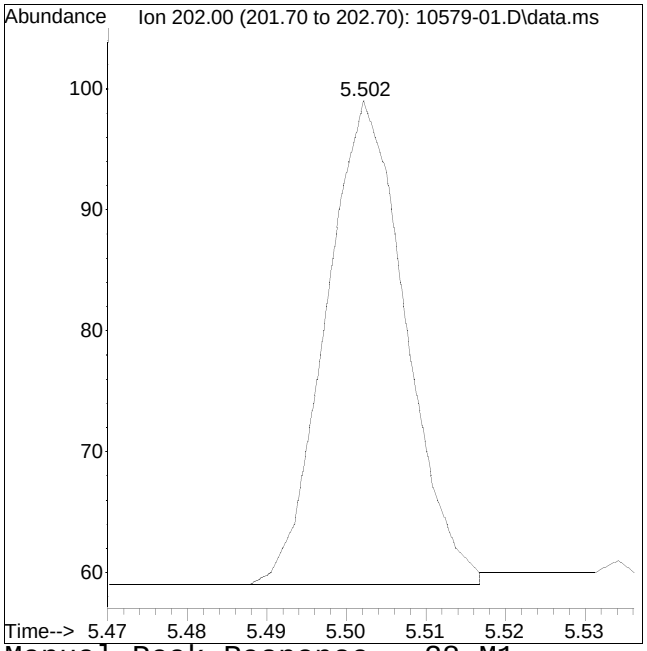
Data Path : I:\8270SIM\SV128\240305\
Data File : 10579-01.D
Date Inj'd : 3/5/2024 9:58 am
Sample : L2410579-01,32,,RV,ah

QMethod : SIM-LVI_231211_sv128.M
Operator : SV128:jjw
Instrument : SV128
Quant Date : 3/5/2024 10:11 am

Compound #28: Fluoranthene



Original Peak Response = 26



Manual Peak Response = 28 M1

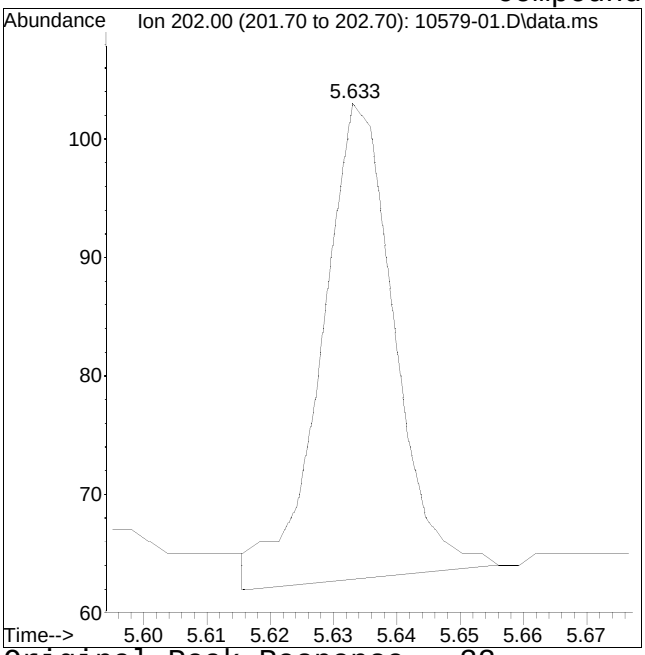
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

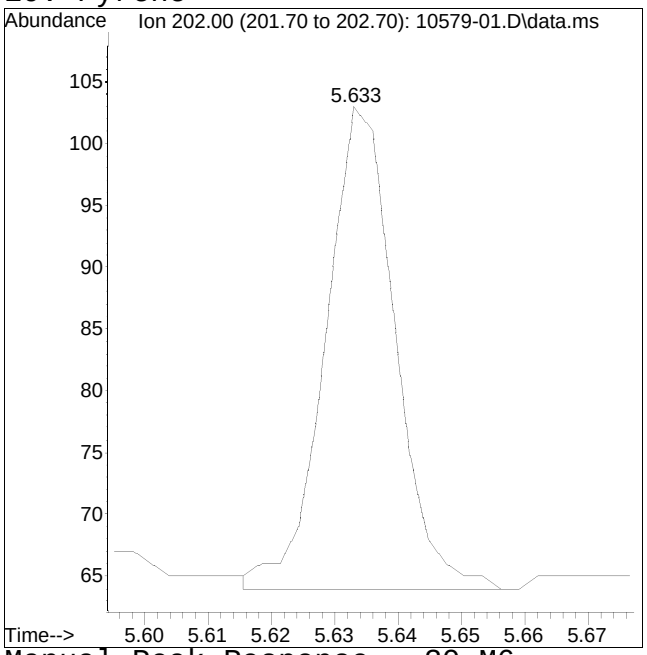
Data Path : I:\8270SIM\SV128\240305\
Data File : 10579-01.D
Date Inj'd : 3/5/2024 9:58 am
Sample : L2410579-01,32,,RV,ah

QMethod : SIM-LVI_231211_sv128.M
Operator : SV128:jjw
Instrument : SV128
Quant Date : 3/5/2024 10:11 am

Compound #29: Pyrene



Original Peak Response = 32



Manual Peak Response = 30 M6

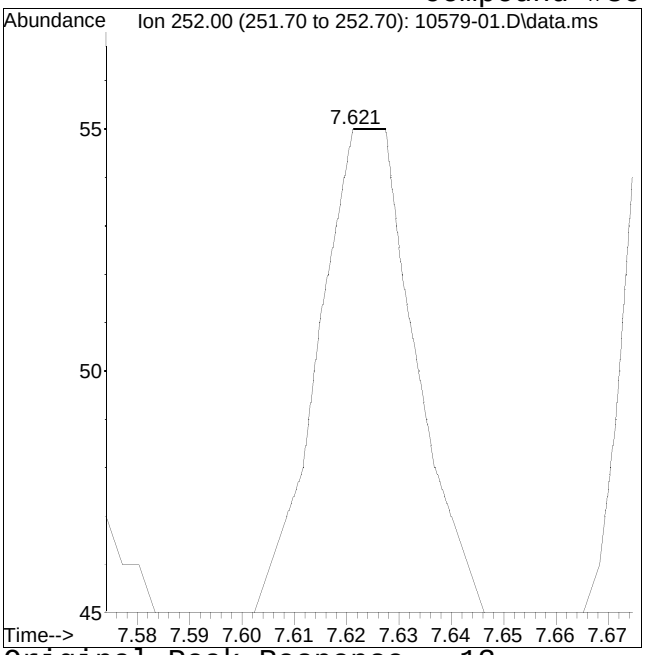
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

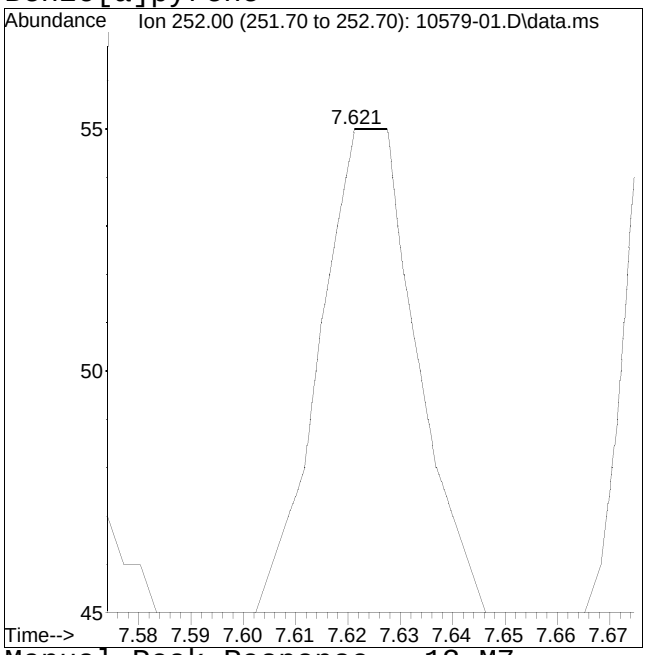
Data Path : I:\8270SIM\SV128\240305\
Data File : 10579-01.D
Date Inj'd : 3/5/2024 9:58 am
Sample : L2410579-01,32,,RV,ah

QMethod : SIM-LVI_231211_sv128.M
Operator : SV128:jjw
Instrument : SV128
Quant Date : 3/5/2024 10:11 am

Compound #39: Benzo[a]pyrene



Original Peak Response = 13



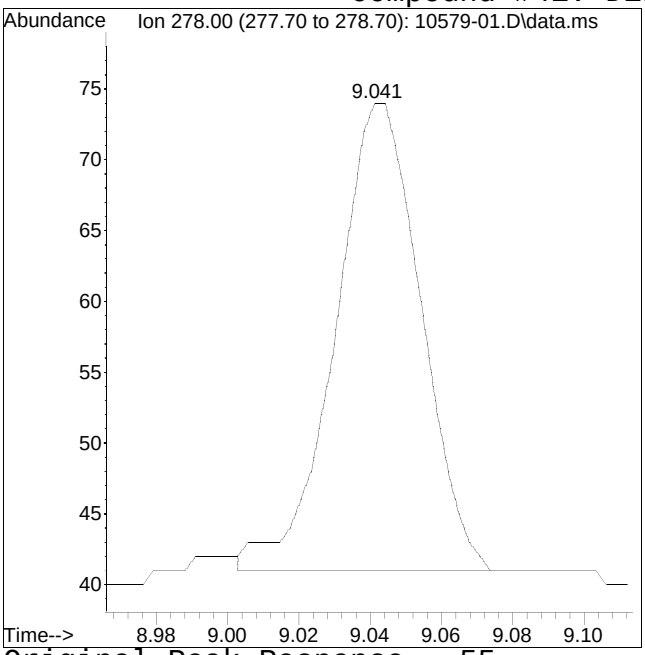
Manual Peak Response = 13 M7

M7 = A qualifier ion was manually integrated (only for GC/MS data).

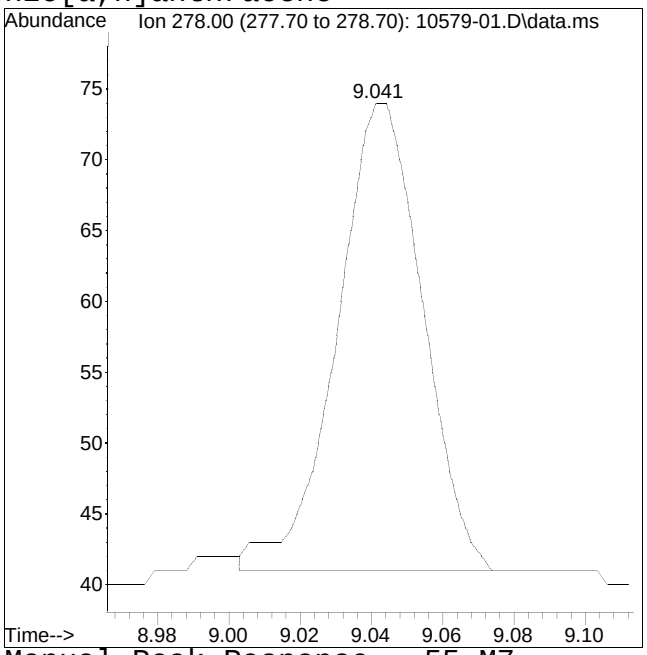
Manual Integration Report

Data Path : I:\8270SIM\SV128\240305\ QMethod : SIM-LVI_231211_sv128.M
Data File : 10579-01.D Operator : SV128:jjw
Date Inj'd : 3/5/2024 9:58 am Instrument : SV128
Sample : L2410579-01,32,,RV,ah Quant Date : 3/5/2024 10:11 am

Compound #41: Dibenzo[a,h]anthracene



Original Peak Response = 55



Manual Peak Response = 55 M7

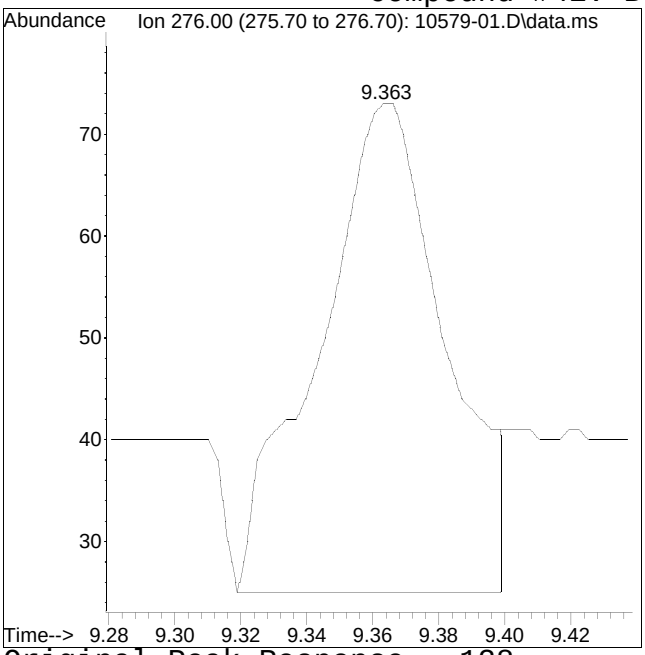
M7 = A qualifier ion was manually integrated (only for GC/MS data).

Manual Integration Report

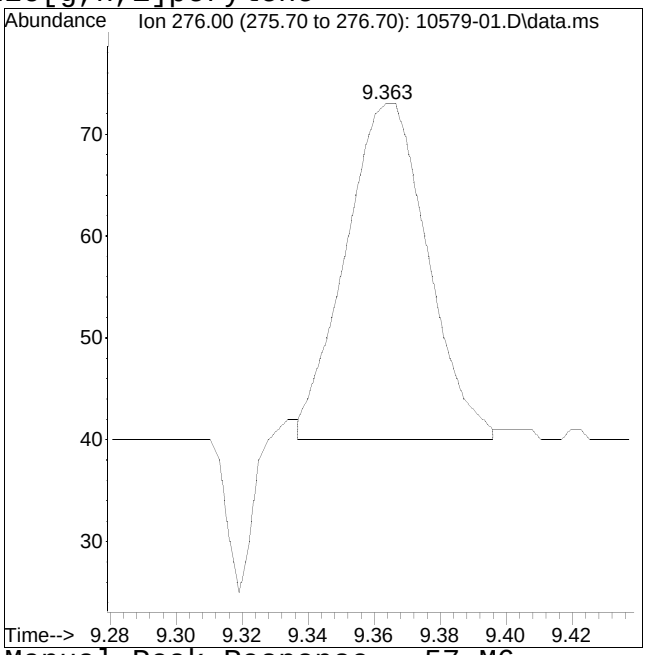
Data Path : I:\8270SIM\SV128\240305\
Data File : 10579-01.D
Date Inj'd : 3/5/2024 9:58 am
Sample : L2410579-01,32,,RV,ah

QMethod : SIM-LVI_231211_sv128.M
Operator : SV128:jjw
Instrument : SV128
Quant Date : 3/5/2024 10:11 am

Compound #42: Benzo[g,h,i]perylene



Original Peak Response = 128



Manual Peak Response = 57 M6

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV128\240305\
Data File : 10579-02.D
Acq On : 05 Mar 2024 10:15 am
Operator : SV128:jjw
Sample : L2410579-02,32,,ah
Misc : WG1892213,wg1892049,ical20676
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Mar 05 10:48:42 2024
Quant Method : I:\8270sim\sv128\240305\SIM-LVI_231211_sv128.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Mar 05 07:15:56 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv128\240305\ccv0305a.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.269	152	2532	4000.000	ng/ml	0.00
Standard Area 1 = 1565			Recovery = 161.79%			
8) Naphthalene-d8	2.945	136	9511	4000.000	ng/ml	0.00
Standard Area 1 = 5966			Recovery = 159.42%			
17) Acenaphthene-d10	3.937	164	6016	4000.000	ng/ml	0.00
Standard Area 1 = 4044			Recovery = 148.76%			
22) Phenanthrene-d10	4.796	188	14701	4000.000	ng/ml	0.00
Standard Area 1 = 10610			Recovery = 138.56%			
31) Chrysene-d12	6.386	240	15308	4000.000	ng/ml	-0.01
Standard Area 1 = 12274			Recovery = 124.72%			
36) Perylene-d12	7.684	264	17188	4000.000	ng/ml	-0.02
Standard Area 1 = 14188			Recovery = 121.14%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.659	112	2133	3345.360	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 66.91%			
3) Phenol-d6	2.083	99	2388	3204.715	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 64.09%			
7) Nitrobenzene-d5	2.557	82	1451	2409.539	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 96.38%			
13) 2-Fluorobiphenyl	3.552	172	4474	2218.138	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 88.73%			
21) 2,4,6-Tribromophenol	4.395	330	1662	5528.411	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 110.57%#			
30) 4-Terphenyl-d14	5.729	244	8225	2685.495	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 107.42%			
Target Compounds						Qvalue
6) Hexachloroethane	0.000		0	N.D.		
9) Naphthalene	2.957	128	24M7	9.840	ng/ml	
10) Hexachlorobutadiene	0.000		0	N.D.		
11) 2-Methylnaphthalene	0.000		0	N.D.		
14) 2-Chloronaphthalene	0.000		0	N.D.	d	
16) Acenaphthylene	0.000		0	N.D.	d	
18) Acenaphthene	0.000		0	N.D.		
20) Fluorene	4.252	166	5M6	2.436	ng/ml	
24) Hexachlorobenzene	0.000		0	N.D.	d	
25) Pentachlorophenol	0.000		0	N.D.		

Data Path : I:\8270SIM\SV128\240305\
Data File : 10579-02.D
Acq On : 05 Mar 2024 10:15 am
Operator : SV128:jjw
Sample : L2410579-02,32,,ah
Misc : WG1892213,wg1892049,ical20676
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Mar 05 10:48:42 2024
Quant Method : I:\8270sim\sv128\240305\SIM-LVI_231211_sv128.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Mar 05 07:15:56 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv128\240305\ccv0305a.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Phenanthrene	4.808	178	19M6	4.779	ng/ml	
27) Anthracene	4.837	178	10M6	2.603	ng/ml	
28) Fluoranthene	5.502	202	17M6	3.892	ng/ml	
29) Pyrene	5.633	202	15M7	3.319	ng/ml	
32) Benzo[a]anthracene	6.386	228	55M4	3.489	ng/ml	
34) Chrysene	6.405	228	7M3	1.326	ng/ml	
37) Benzo[b]fluoranthene	0.000		0	N.D.	d	
38) Benzo[k]fluoranthene	0.000		0	N.D.	d	
39) Benzo[a]pyrene	0.000		0	N.D.	d	
40) Indeno[1,2,3-cd]pyrene	0.000		0	N.D.		
41) Dibenzo[a,h]anthracene	0.000		0	N.D.	d	
42) Benzo[g,h,i]perylene	0.000		0	N.D.		

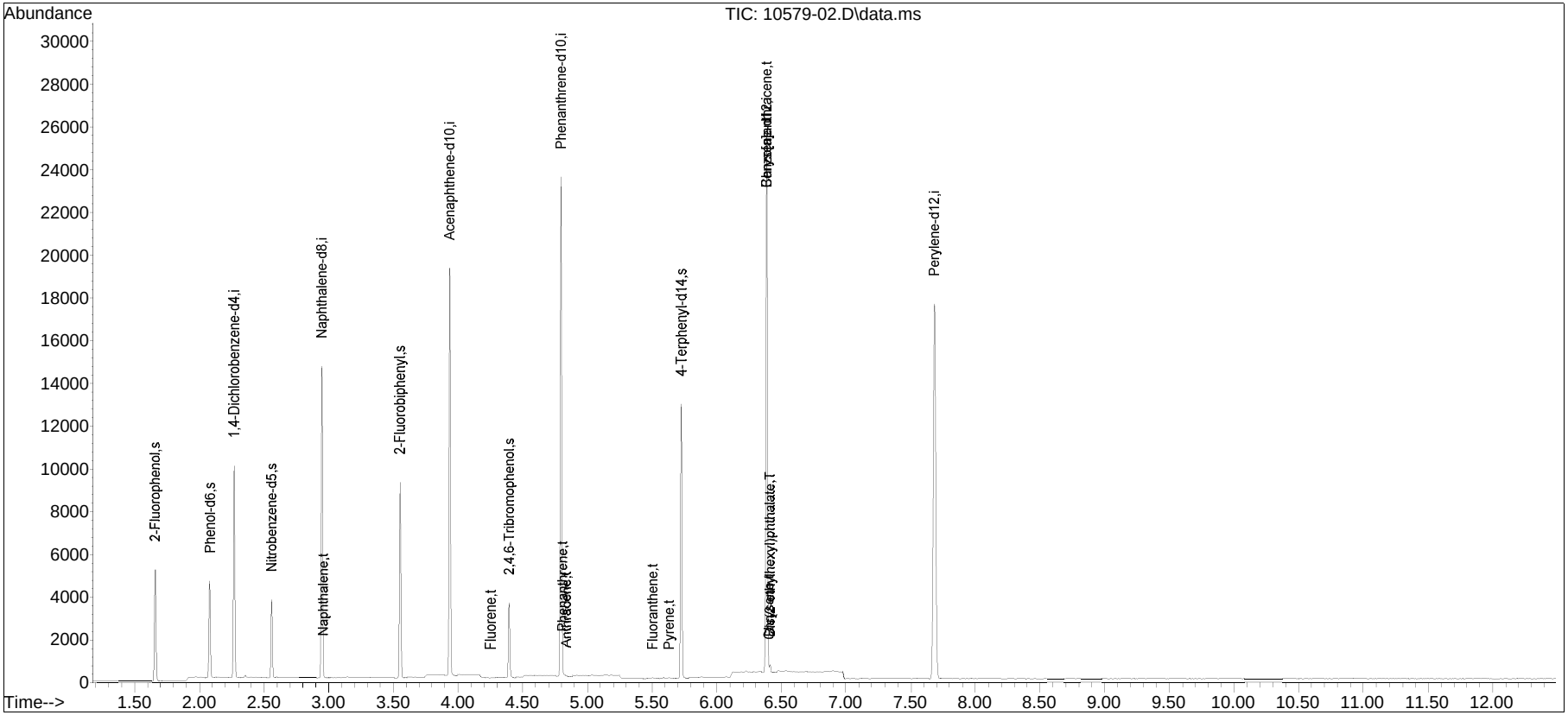
(#) = qualifier out of range (m) = manual integration (+) = signals summed

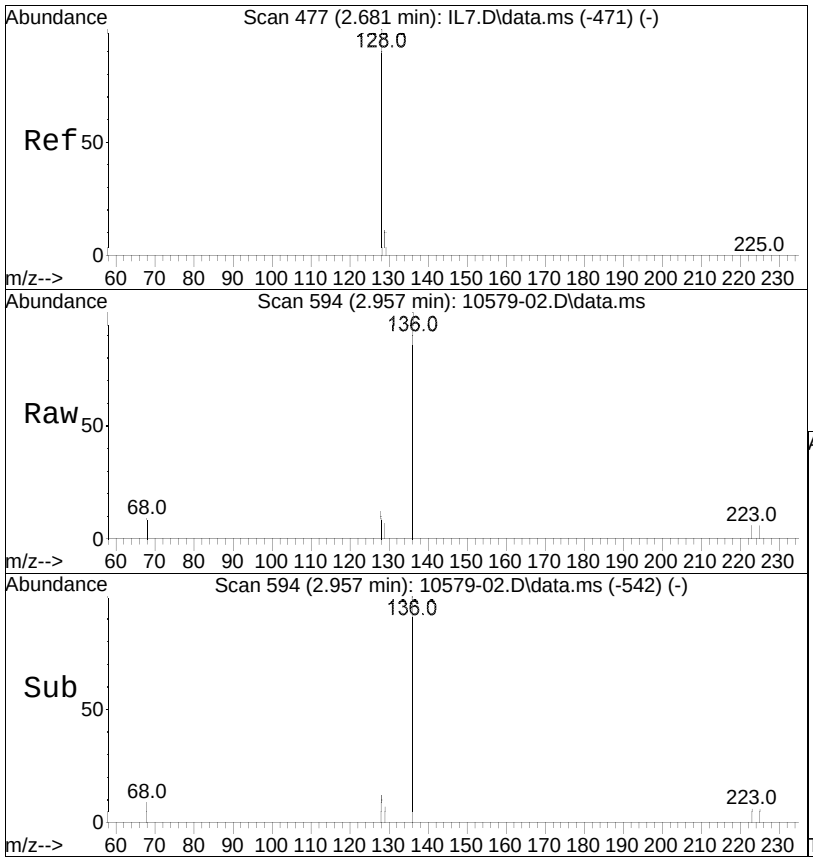
Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV128\240305\
Data File : 10579-02.D
Acq On : 05 Mar 2024 10:15 am
Operator : SV128:jjw
Sample : L2410579-02,32,,ah
Misc : WG1892213,wg1892049,ical20676
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Mar 05 10:48:42 2024
Quant Method : I:\8270sim\sv128\240305\SIM-LVI_231211_sv128.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Mar 05 07:15:56 2024
Response via : Initial Calibration

Sub List : DEFAULT - All compounds listedv0305a.D•

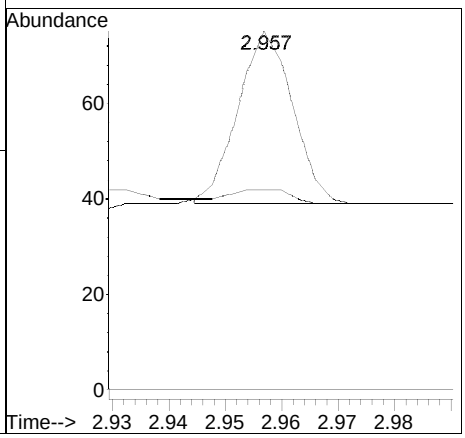


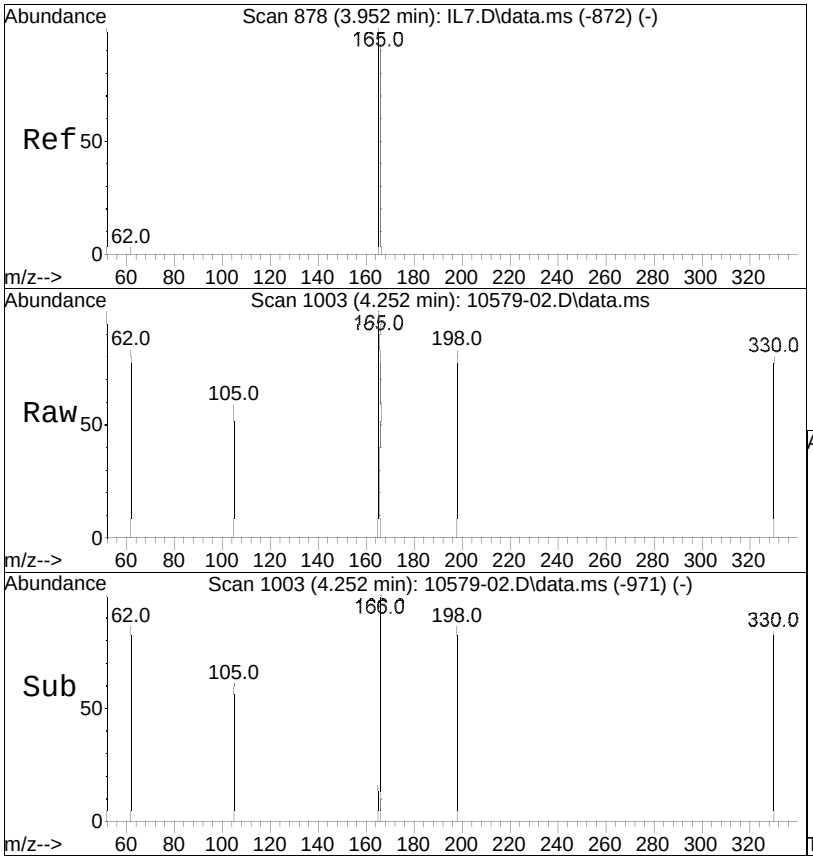


#9
Naphthalene
Concen: 9.84 ng/ml M7
RT: 2.957 min Scan# 594
Delta R.T. 0.000 min
Lab File: 10579-02.D
Acq: 05 Mar 2024 10:15 am

Tgt Ion:128 Resp: 24

Ion	Ratio	Lower	Upper
128	100		
129	12.5	8.8	13.2
127	0.0	0.0	0.0

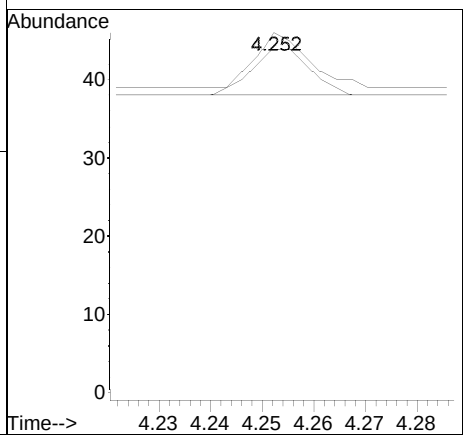


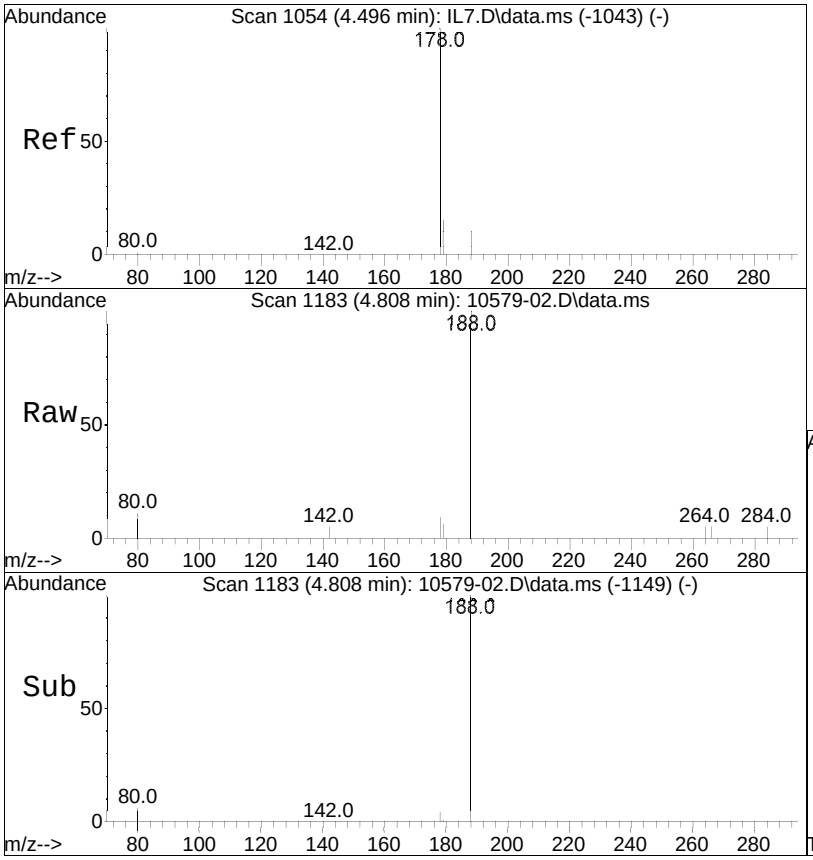


#20
Fluorene
Concen: 2.44 ng/ml M6
RT: 4.252 min Scan# 1003
Delta R.T. -0.006 min
Lab File: 10579-02.D
Acq: 05 Mar 2024 10:15 am

Tgt Ion:166 Resp: 5

Ion	Ratio	Lower	Upper
166	100		
165	100.0	85.7	128.5

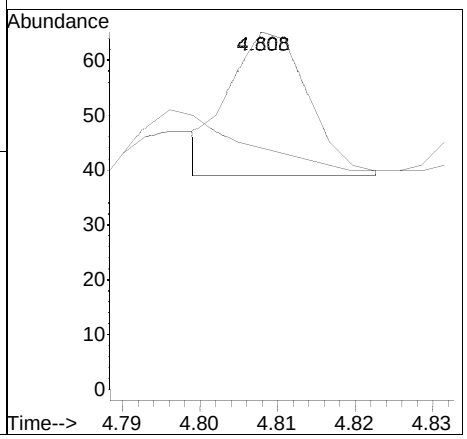


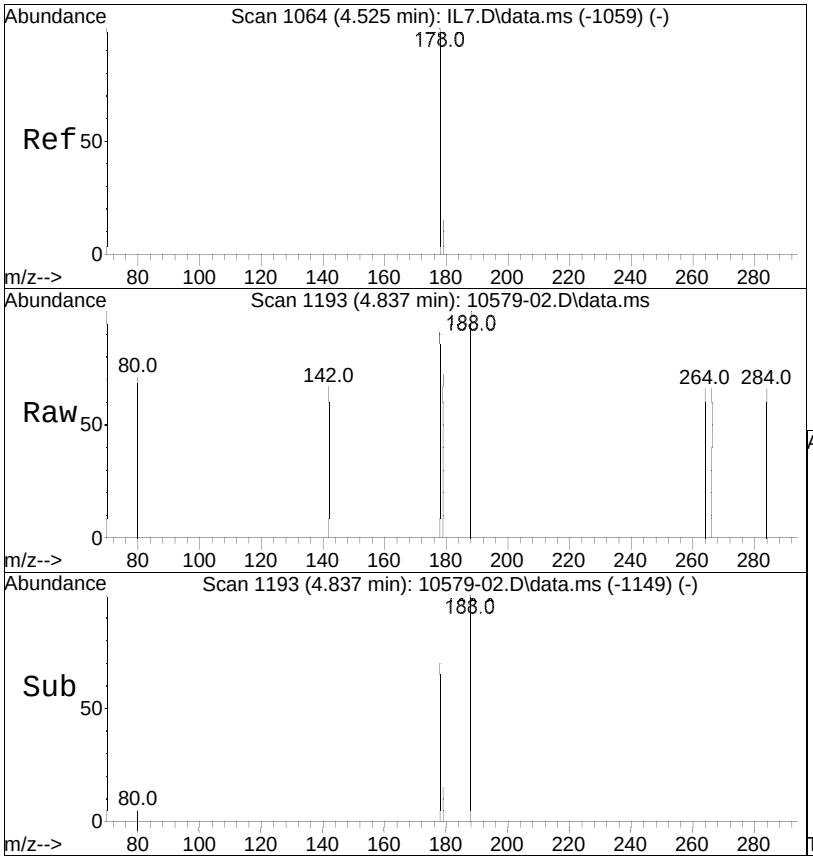


#26
Phenanthrene
Concen: 4.78 ng/ml M6
RT: 4.808 min Scan# 1183
Delta R.T. -0.006 min
Lab File: 10579-02.D
Acq: 05 Mar 2024 10:15 am

Tgt Ion:178 Resp: 19

Ion	Ratio	Lower	Upper
178	100		
179	15.8	12.2	18.4

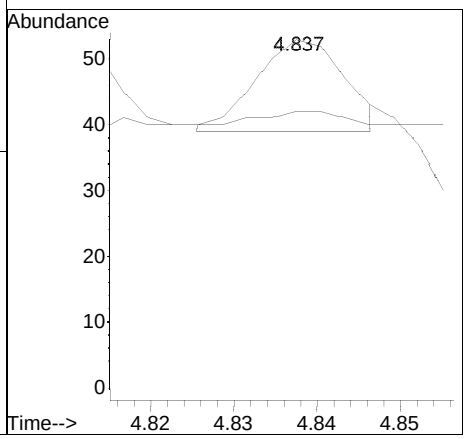


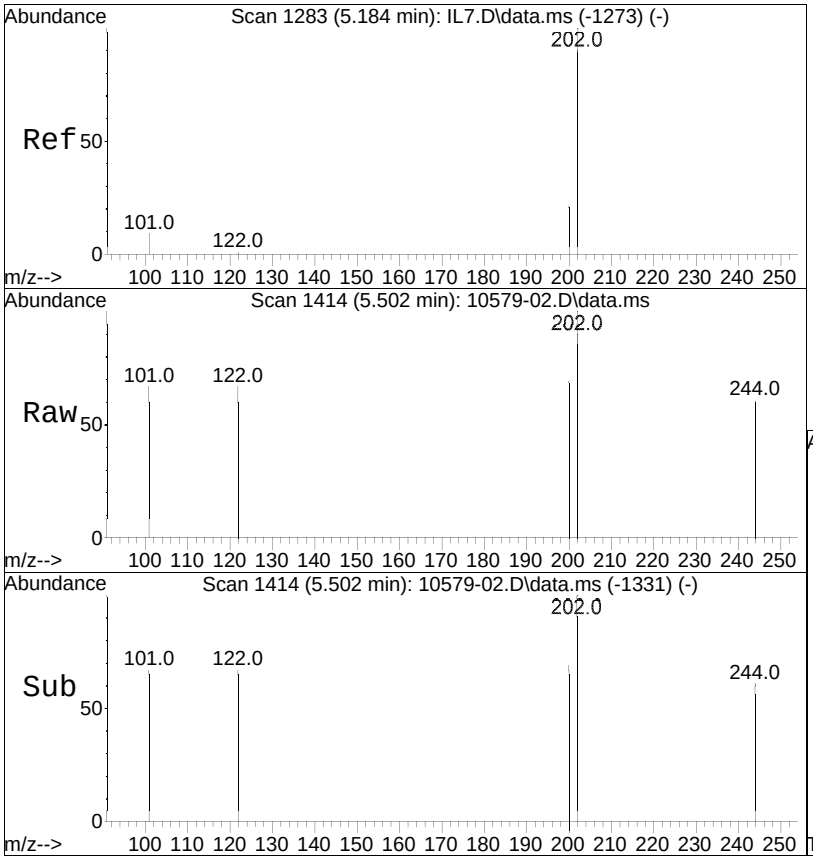


#27
Anthracene
Concen: 2.60 ng/ml M6
RT: 4.837 min Scan# 1193
Delta R.T. -0.006 min
Lab File: 10579-02.D
Acq: 05 Mar 2024 10:15 am

Tgt Ion:178 Resp: 10

Ion	Ratio	Lower	Upper
178	100		
179	20.0	12.2	18.2#

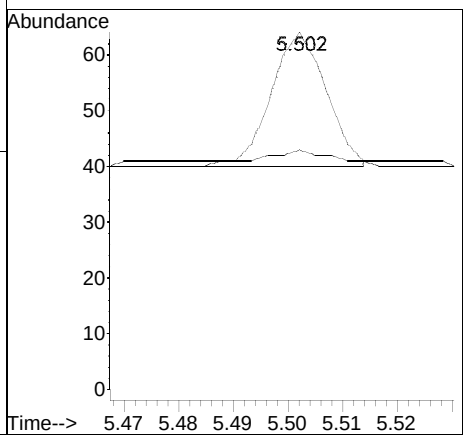


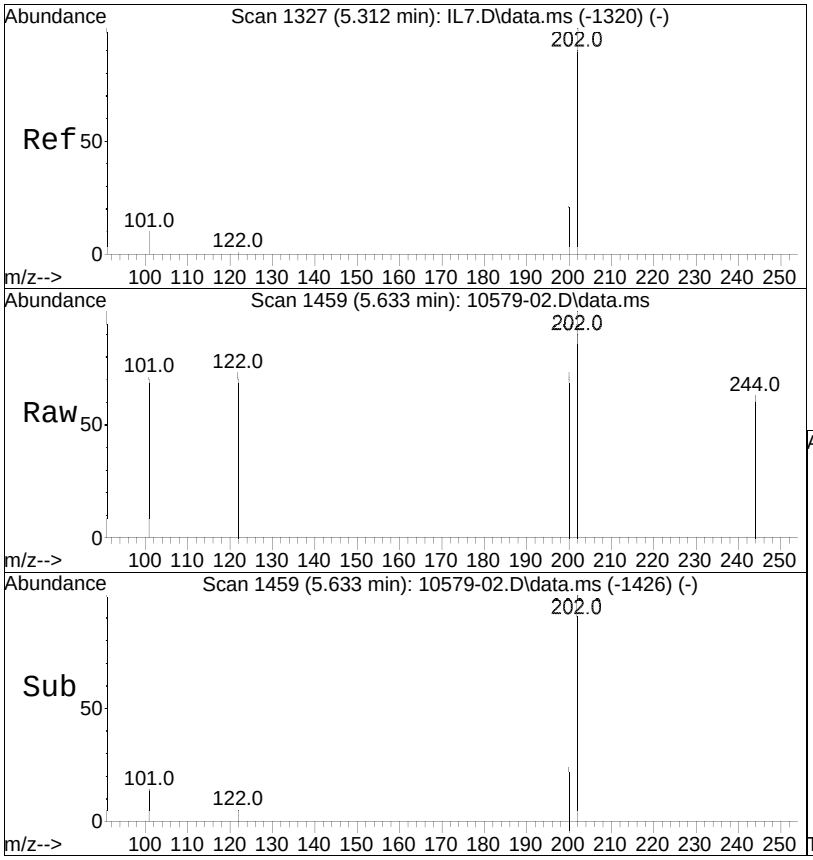


#28
Fluoranthene
Concen: 3.89 ng/ml M6
RT: 5.502 min Scan# 1414
Delta R.T. -0.009 min
Lab File: 10579-02.D
Acq: 05 Mar 2024 10:15 am

Tgt Ion:202 Resp: 17

Ion	Ratio	Lower	Upper
202	100		
101	11.8	7.2	10.8#

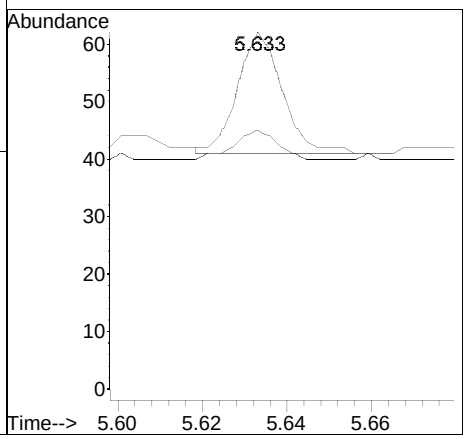


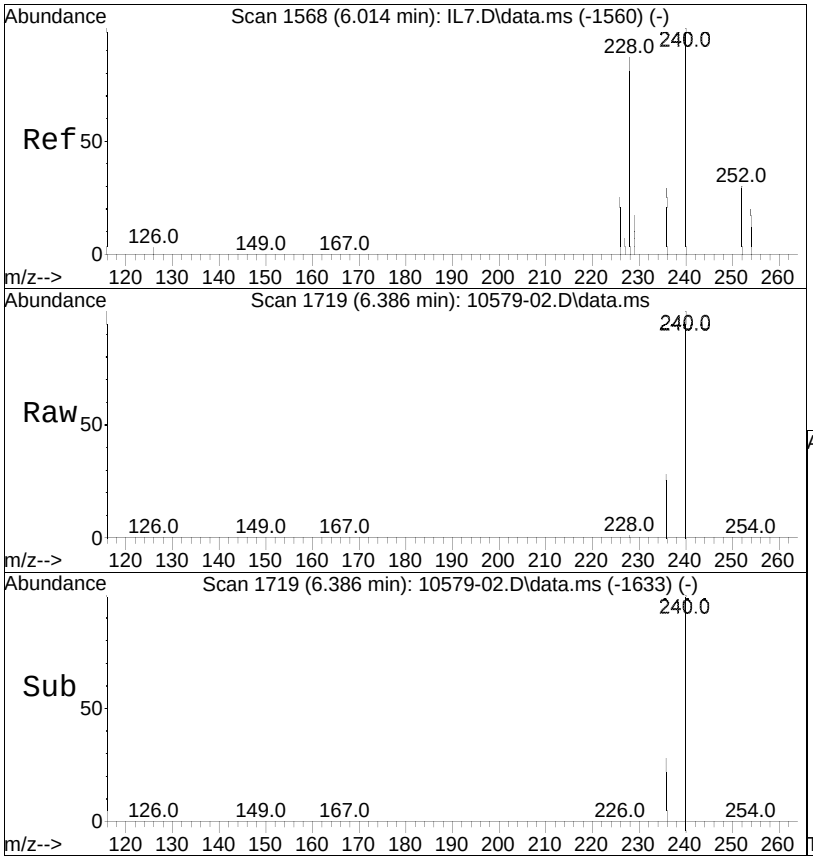


#29
Pyrene
Concen: 3.32 ng/ml M7
RT: 5.633 min Scan# 1459
Delta R.T. -0.009 min
Lab File: 10579-02.D
Acq: 05 Mar 2024 10:15 am

Tgt Ion:202 Resp: 15

Ion	Ratio	Lower	Upper
202	100		
200	20.0	17.7	26.5

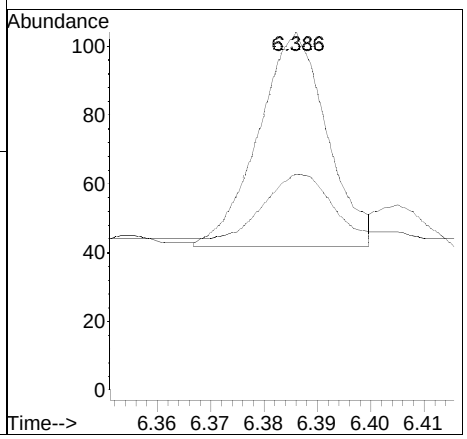


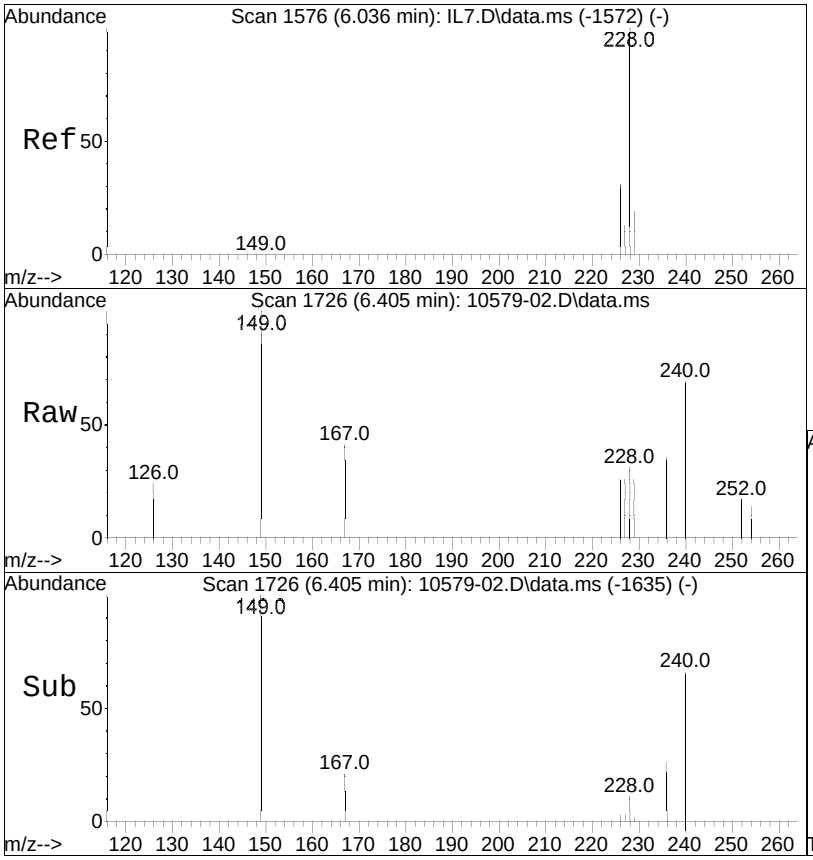


#32
Benzo[a]anthracene
Concen: 3.49 ng/ml M4
RT: 6.386 min Scan# 1719
Delta R.T. -0.002 min
Lab File: 10579-02.D
Acq: 05 Mar 2024 10:15 am

Tgt Ion:228 Resp: 55

Ion	Ratio	Lower	Upper
228	100		
229	32.7	15.7	23.5#

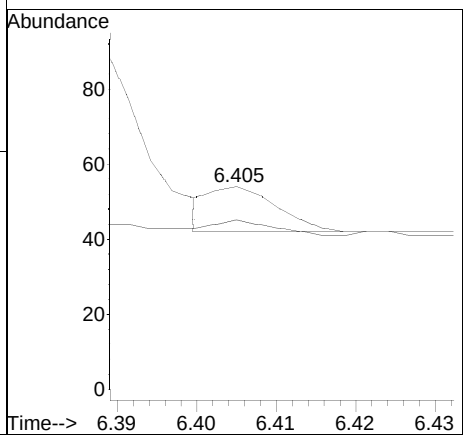




#34
Chrysene
Concen: 1.33 ng/ml M3
RT: 6.405 min Scan# 1726
Delta R.T. -0.011 min
Lab File: 10579-02.D
Acq: 05 Mar 2024 10:15 am

Tgt Ion:228 Resp: 7

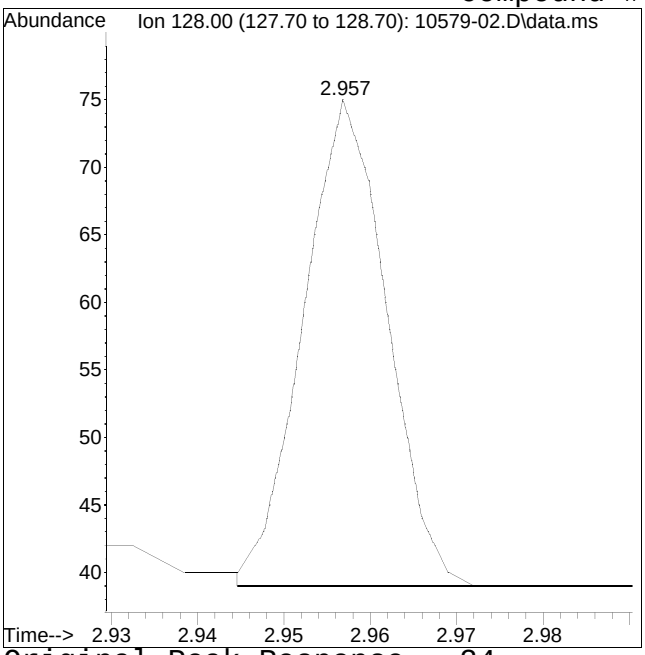
Ion	Ratio	Lower	Upper
228	100		
226	28.6	24.6	36.8



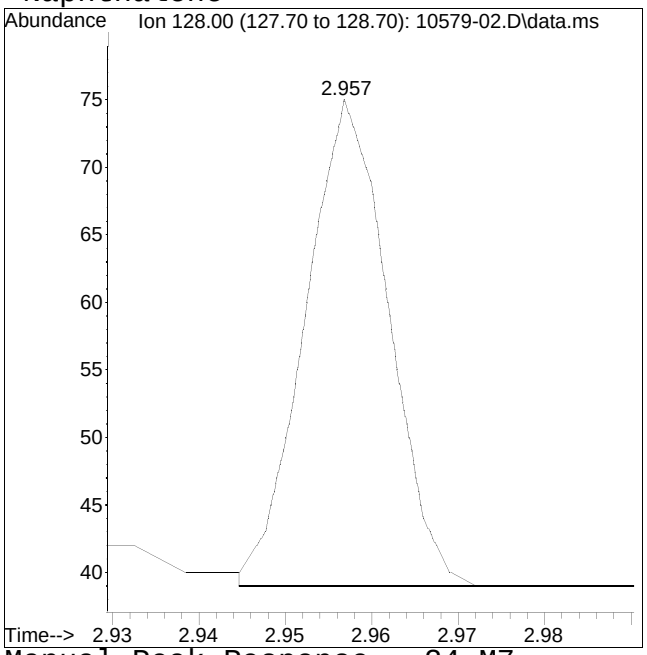
Manual Integration Report

Data Path	: I:\8270SIM\SV128\240305\	QMethod	: SIM-LVI_231211_sv128.M
Data File	: 10579-02.D	Operator	: SV128:jjw
Date Inj'd	: 3/5/2024 10:15 am	Instrument	: SV128
Sample	: L2410579-02,32,,ah	Quant Date	: 3/5/2024 10:29 am

Compound #9: Naphthalene



Original Peak Response = 24



Manual Peak Response = 24 M7

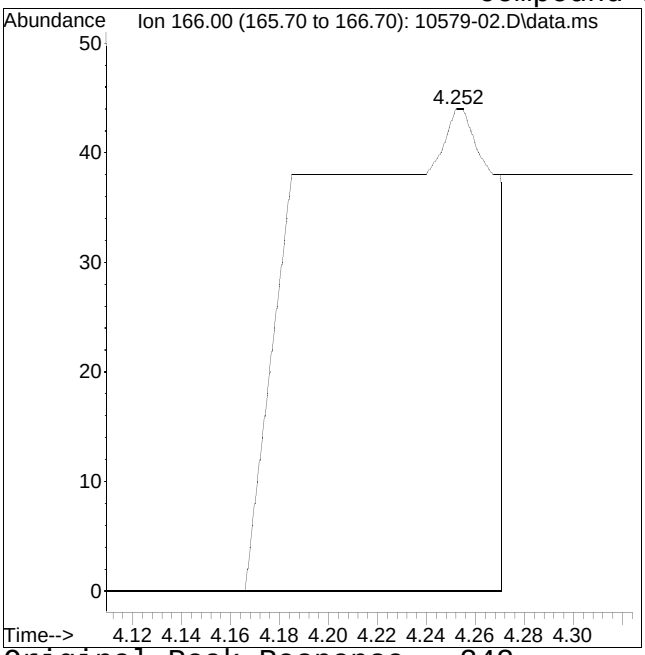
M7 = A qualifier ion was manually integrated (only for GC/MS data).

Manual Integration Report

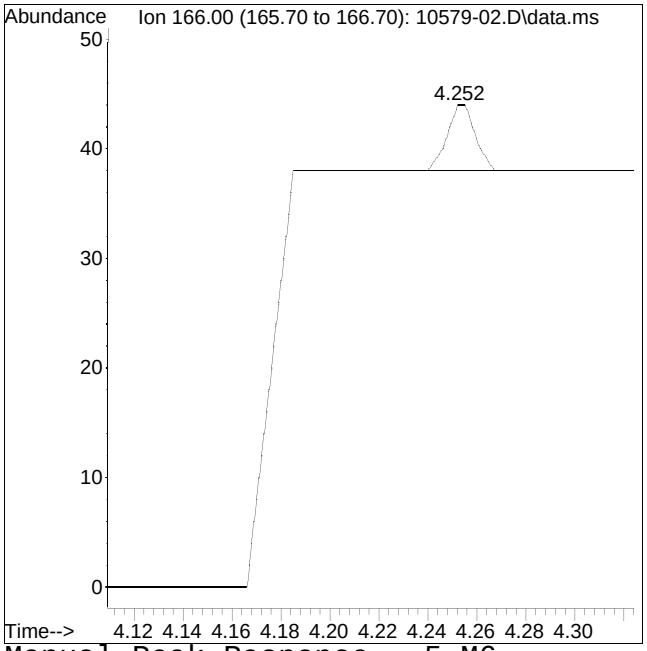
Data Path : I:\8270SIM\SV128\240305\
Data File : 10579-02.D
Date Inj'd : 3/5/2024 10:15 am
Sample : L2410579-02,32,,ah

QMethod : SIM-LVI_231211_sv128.M
Operator : SV128:jjw
Instrument : SV128
Quant Date : 3/5/2024 10:29 am

Compound #20: Fluorene



Original Peak Response = 242



Manual Peak Response = 5 M6

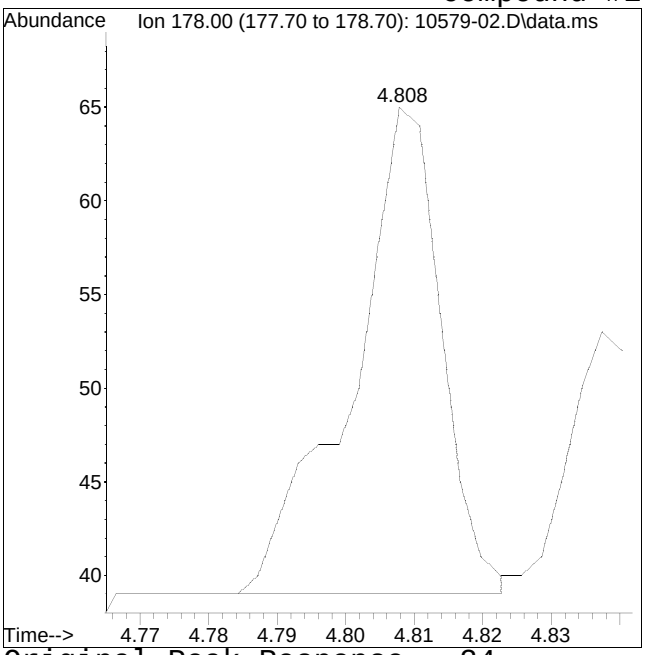
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

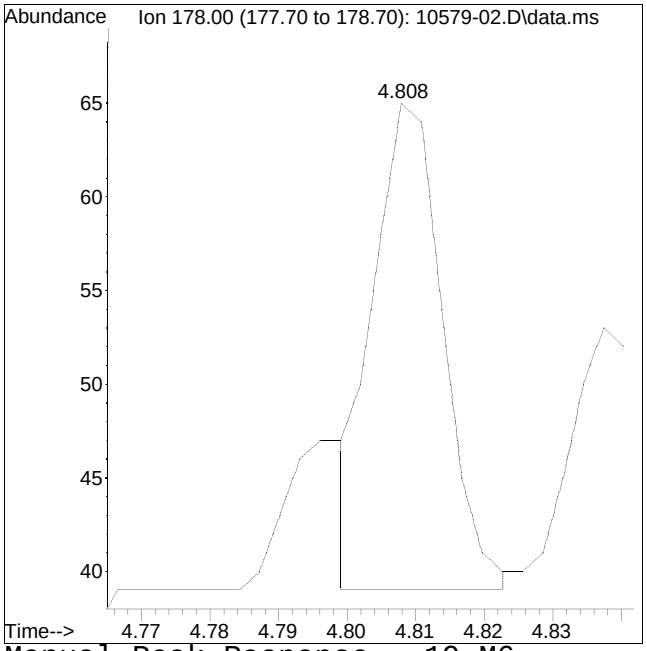
Data Path : I:\8270SIM\SV128\240305\
Data File : 10579-02.D
Date Inj'd : 3/5/2024 10:15 am
Sample : L2410579-02,32,,ah

QMethod : SIM-LVI_231211_sv128.M
Operator : SV128:jjw
Instrument : SV128
Quant Date : 3/5/2024 10:29 am

Compound #26: Phenanthrene



Original Peak Response = 24



Manual Peak Response = 19 M6

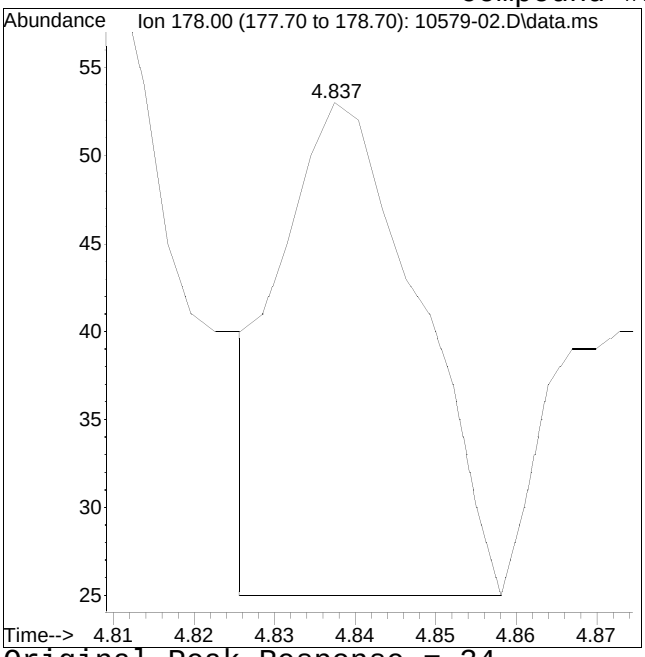
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

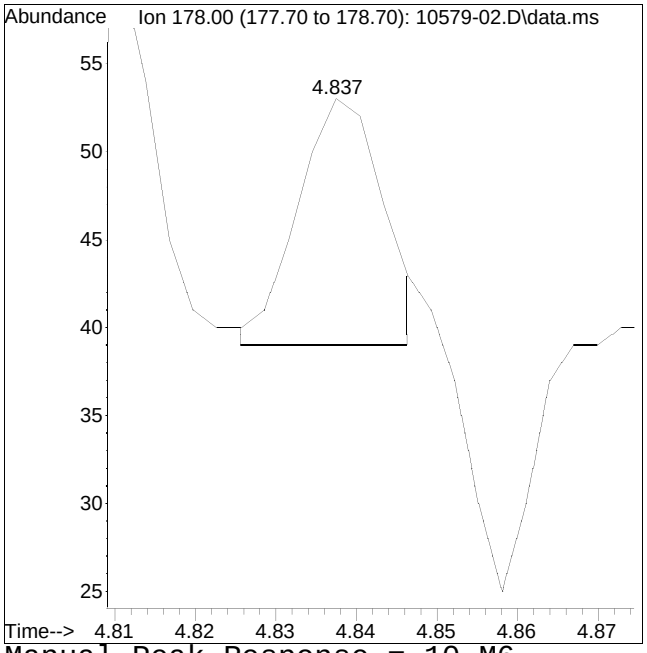
Data Path : I:\8270SIM\SV128\240305\
Data File : 10579-02.D
Date Inj'd : 3/5/2024 10:15 am
Sample : L2410579-02,32,,ah

QMethod : SIM-LVI_231211_sv128.M
Operator : SV128:jjw
Instrument : SV128
Quant Date : 3/5/2024 10:29 am

Compound #27: Anthracene



Original Peak Response = 34



Manual Peak Response = 10 M6

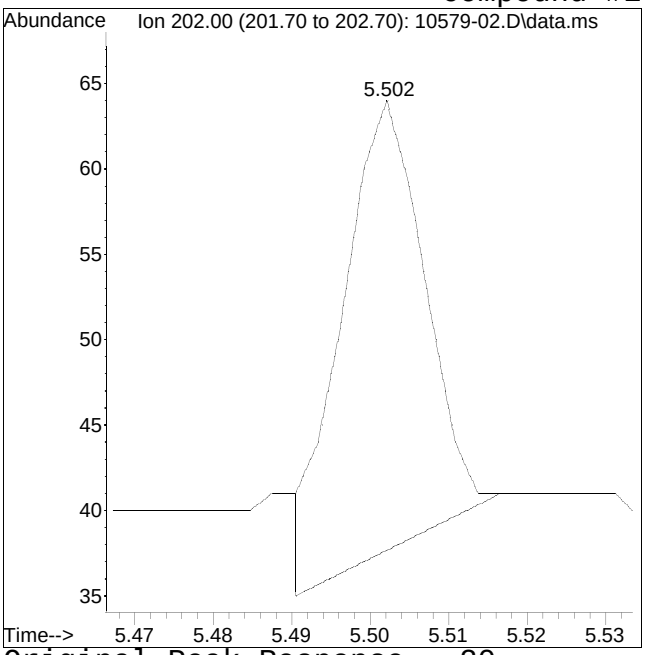
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

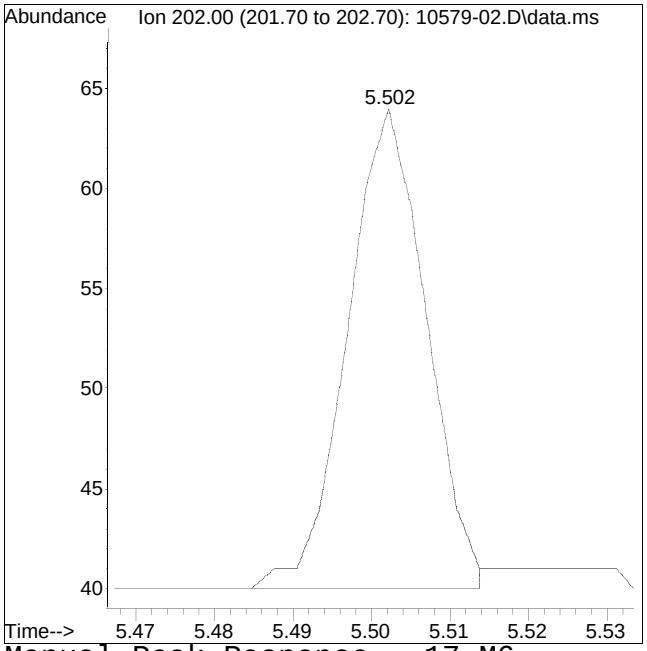
Data Path : I:\8270SIM\SV128\240305\
Data File : 10579-02.D
Date Inj'd : 3/5/2024 10:15 am
Sample : L2410579-02,32,,ah

QMethod : SIM-LVI_231211_sv128.M
Operator : SV128:jjw
Instrument : SV128
Quant Date : 3/5/2024 10:29 am

Compound #28: Fluoranthene



Original Peak Response = 20



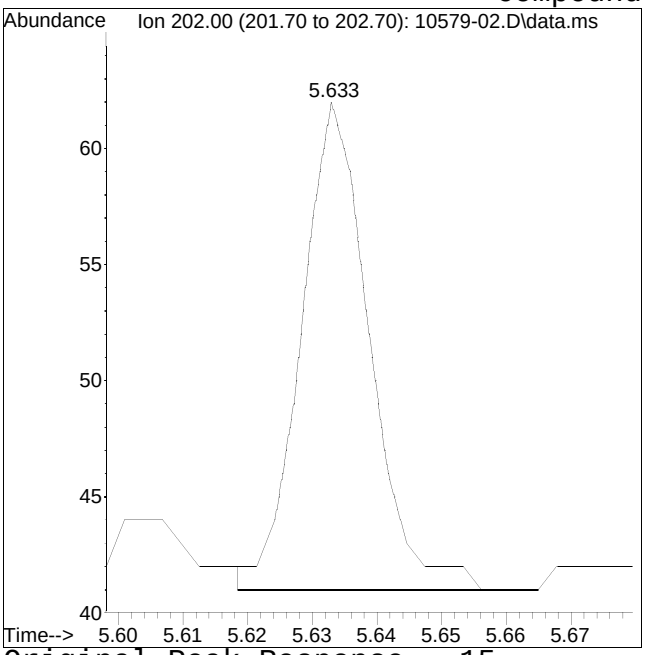
Manual Peak Response = 17 M6

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

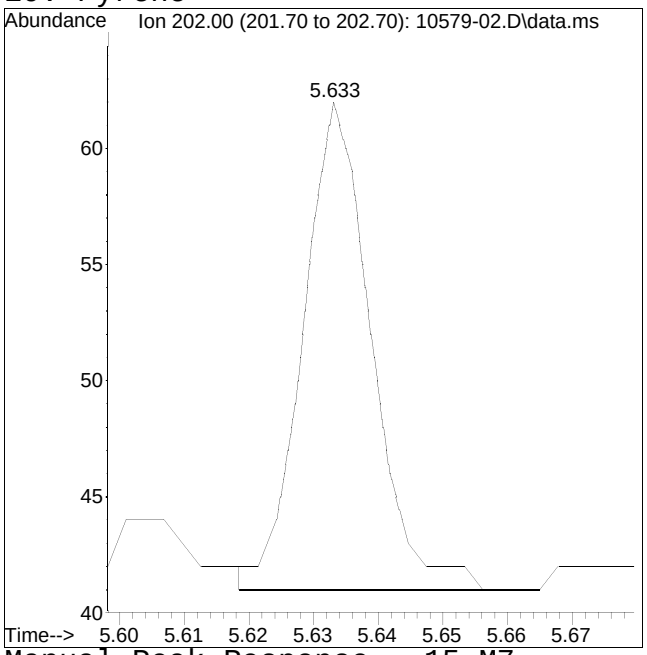
Manual Integration Report

Data Path : I:\8270SIM\SV128\240305\ QMethod : SIM-LVI_231211_sv128.M
Data File : 10579-02.D Operator : SV128:jjw
Date Inj'd : 3/5/2024 10:15 am Instrument : SV128
Sample : L2410579-02,32,,ah Quant Date : 3/5/2024 10:29 am

Compound #29: Pyrene



Original Peak Response = 15



Manual Peak Response = 15 M7

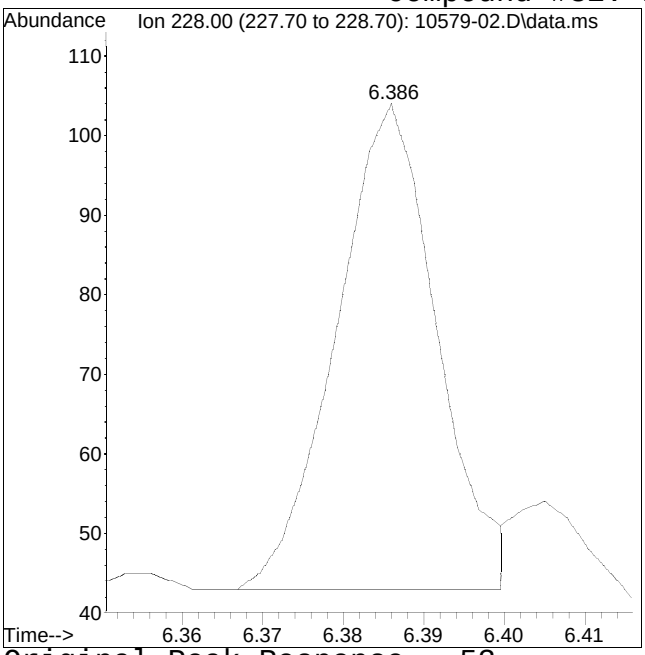
M7 = A qualifier ion was manually integrated (only for GC/MS data).

Manual Integration Report

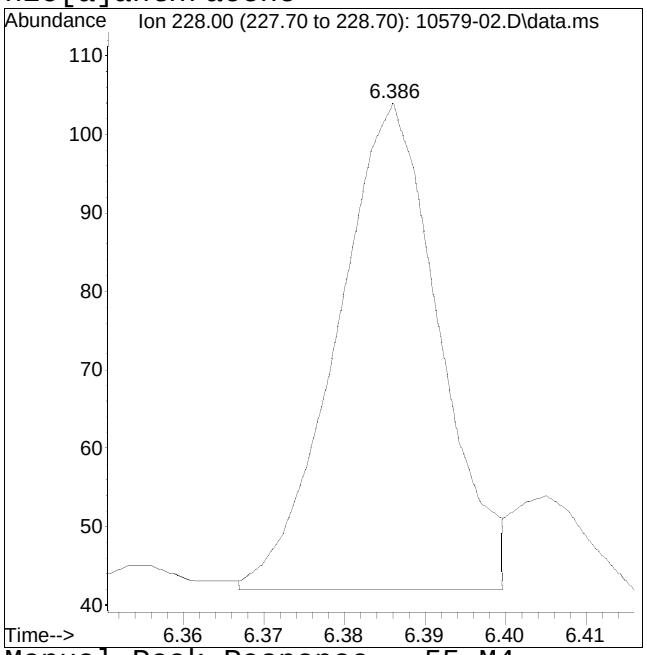
Data Path : I:\8270SIM\SV128\240305\
Data File : 10579-02.D
Date Inj'd : 3/5/2024 10:15 am
Sample : L2410579-02,32,,ah

QMethod : SIM-LVI_231211_sv128.M
Operator : SV128:jjw
Instrument : SV128
Quant Date : 3/5/2024 10:29 am

Compound #32: Benzo[a]anthracene



Original Peak Response = 53



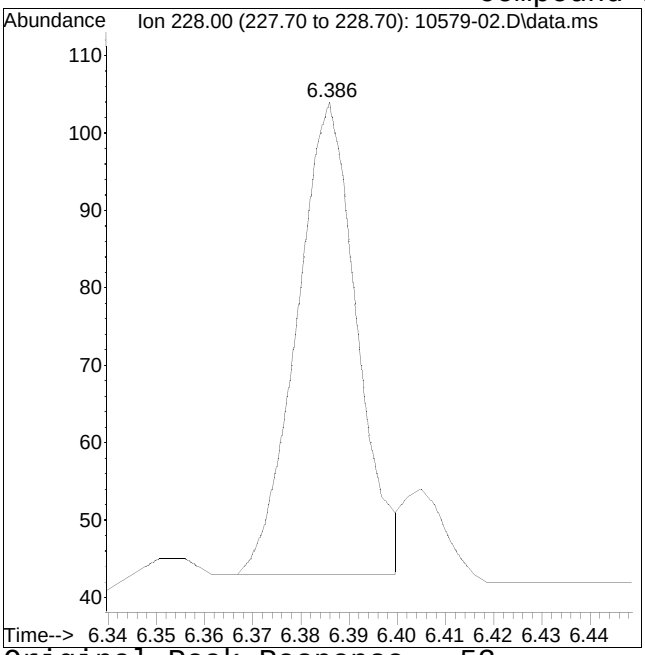
Manual Peak Response = 55 M4

M4 = Poor automated baseline construction.

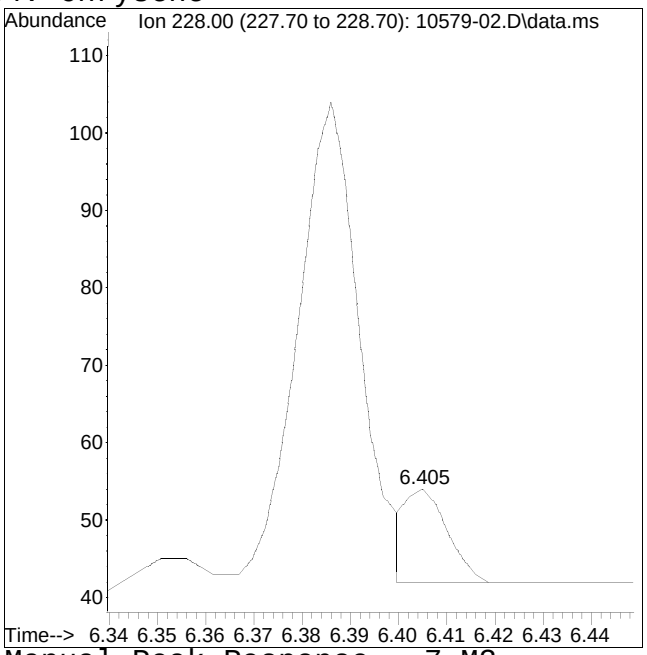
Manual Integration Report

Data Path : I:\8270SIM\SV128\240305\ QMethod : SIM-LVI_231211_sv128.M
Data File : 10579-02.D Operator : SV128:jjw
Date Inj'd : 3/5/2024 10:15 am Instrument : SV128
Sample : L2410579-02,32,,ah Quant Date : 3/5/2024 10:29 am

Compound #34: Chrysene



Original Peak Response = 53



Manual Peak Response = 7 M3

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV128\240305\
Data File : 10579-03.D
Acq On : 05 Mar 2024 10:31 am
Operator : SV128:jjw
Sample : L2410579-03,32,,ah
Misc : WG1892213,wg1892049,ical20676
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Mar 05 10:50:54 2024
Quant Method : I:\8270sim\sv128\240305\SIM-LVI_231211_sv128.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Mar 05 07:15:56 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv128\240305\ccv0305a.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.268	152	2510	4000.000	ng/ml	0.00
Standard Area 1 = 1565			Recovery = 160.38%			
8) Naphthalene-d8	2.947	136	9356	4000.000	ng/ml	0.00
Standard Area 1 = 5966			Recovery = 156.82%			
17) Acenaphthene-d10	3.940	164	5779	4000.000	ng/ml	0.00
Standard Area 1 = 4044			Recovery = 142.90%			
22) Phenanthrene-d10	4.795	188	13801	4000.000	ng/ml	0.00
Standard Area 1 = 10610			Recovery = 130.08%			
31) Chrysene-d12	6.386	240	14858	4000.000	ng/ml	-0.01
Standard Area 1 = 12274			Recovery = 121.05%			
36) Perylene-d12	7.688	264	16208	4000.000	ng/ml	-0.02
Standard Area 1 = 14188			Recovery = 114.24%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.659	112	2068	3271.844	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 65.44%			
3) Phenol-d6	2.082	99	2117	2865.932	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 57.32%			
7) Nitrobenzene-d5	2.556	82	1400	2345.225	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 93.81%			
13) 2-Fluorobiphenyl	3.555	172	4138	2085.543	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 83.42%			
21) 2,4,6-Tribromophenol	4.395	330	1475	5107.595	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 102.15%			
30) 4-Terphenyl-d14	5.728	244	7197	2503.089	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 100.12%			
Target Compounds						Qvalue
6) Hexachloroethane	0.000		0	N.D.		
9) Naphthalene	2.956	128	37M6	15.421	ng/ml	
10) Hexachlorobutadiene	0.000		0	N.D.		
11) 2-Methylnaphthalene	3.344	142	6	3.915	ng/ml	95
14) 2-Chloronaphthalene	0.000		0	N.D.		
16) Acenaphthylene	0.000		0	N.D.		
18) Acenaphthene	0.000		0	N.D.		
20) Fluorene	4.254	166	4M6	2.029	ng/ml	
24) Hexachlorobenzene	0.000		0	N.D. d		
25) Pentachlorophenol	0.000		0	N.D.		

Data Path : I:\8270SIM\SV128\240305\
Data File : 10579-03.D
Acq On : 05 Mar 2024 10:31 am
Operator : SV128:jjw
Sample : L2410579-03,32,,ah
Misc : WG1892213,wg1892049,ical20676
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Mar 05 10:50:54 2024
Quant Method : I:\8270sim\sv128\240305\SIM-LVI_231211_sv128.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Mar 05 07:15:56 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv128\240305\ccv0305a.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Phenanthrene	4.810	178	17M6	4.555	ng/ml	
27) Anthracene	4.840	178	7M7	1.941	ng/ml	
28) Fluoranthene	0.000		0	N.D.	d	
29) Pyrene	5.632	202	14M4	3.300	ng/ml	
32) Benzo[a]anthracene	6.386	228	52M4	3.229	ng/ml	
34) Chrysene	6.402	228	8M3	1.562	ng/ml	
37) Benzo[b]fluoranthene	0.000		0	N.D.	d	
38) Benzo[k]fluoranthene	0.000		0	N.D.	d	
39) Benzo[a]pyrene	0.000		0	N.D.	d	
40) Indeno[1,2,3-cd]pyrene	0.000		0	N.D.		
41) Dibenzo[a,h]anthracene	0.000		0	N.D.		
42) Benzo[g,h,i]perylene	0.000		0	N.D.	d	

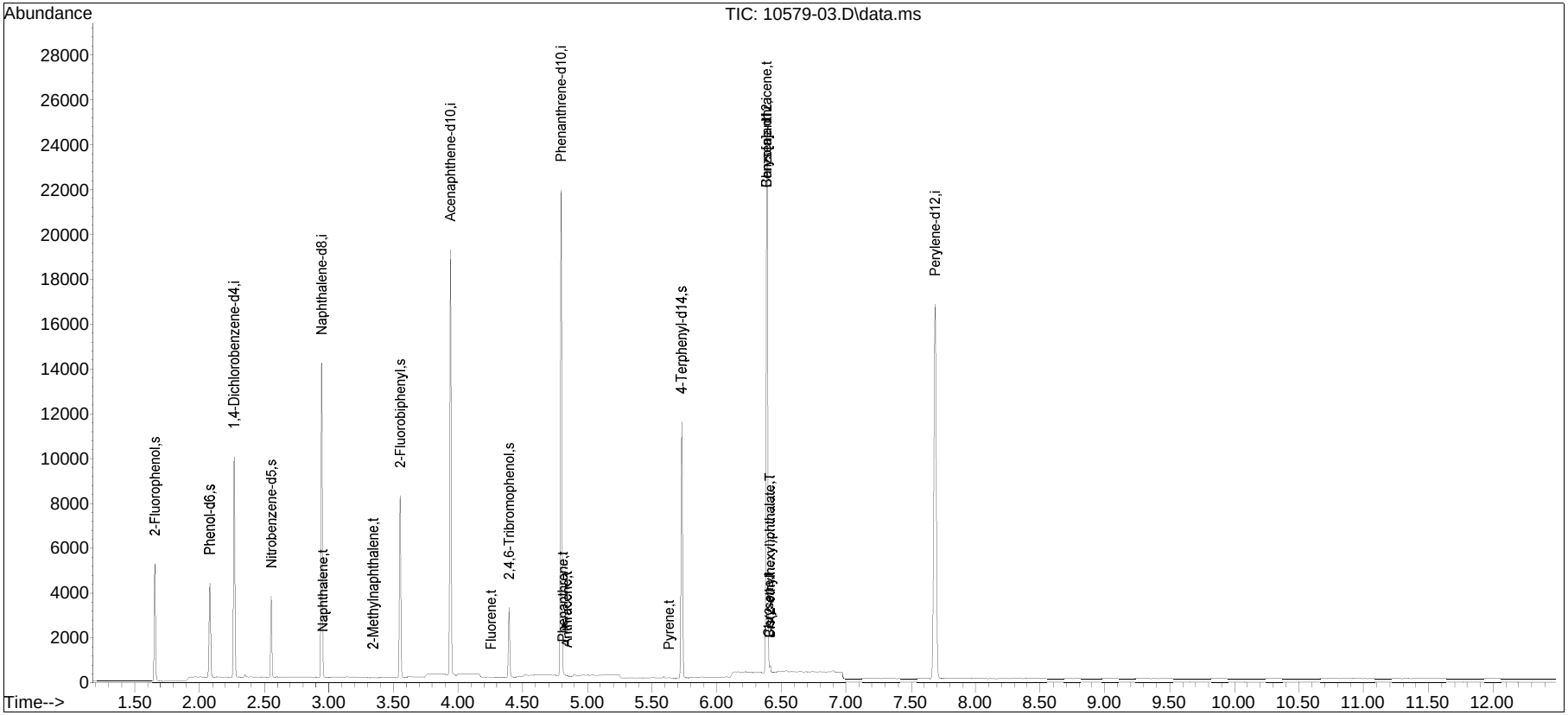
(#) = qualifier out of range (m) = manual integration (+) = signals summed

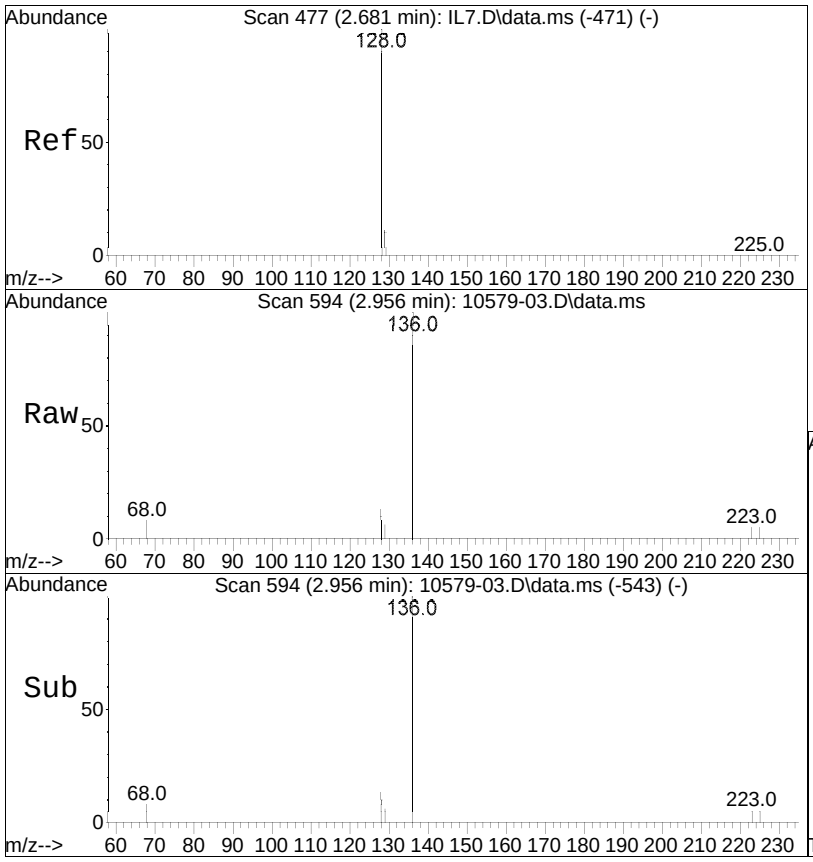
Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV128\240305\
Data File : 10579-03.D
Acq On : 05 Mar 2024 10:31 am
Operator : SV128:jjw
Sample : L2410579-03,32,,ah
Misc : WG1892213,wg1892049,ical20676
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Mar 05 10:50:54 2024
Quant Method : I:\8270sim\sv128\240305\SIM-LVI_231211_sv128.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Mar 05 07:15:56 2024
Response via : Initial Calibration

Sub List : DEFAULT - All compounds listedv0305a.D•

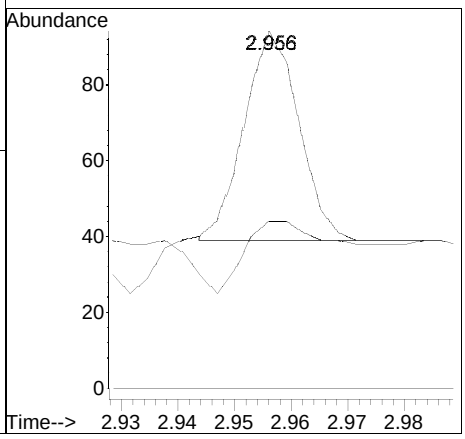


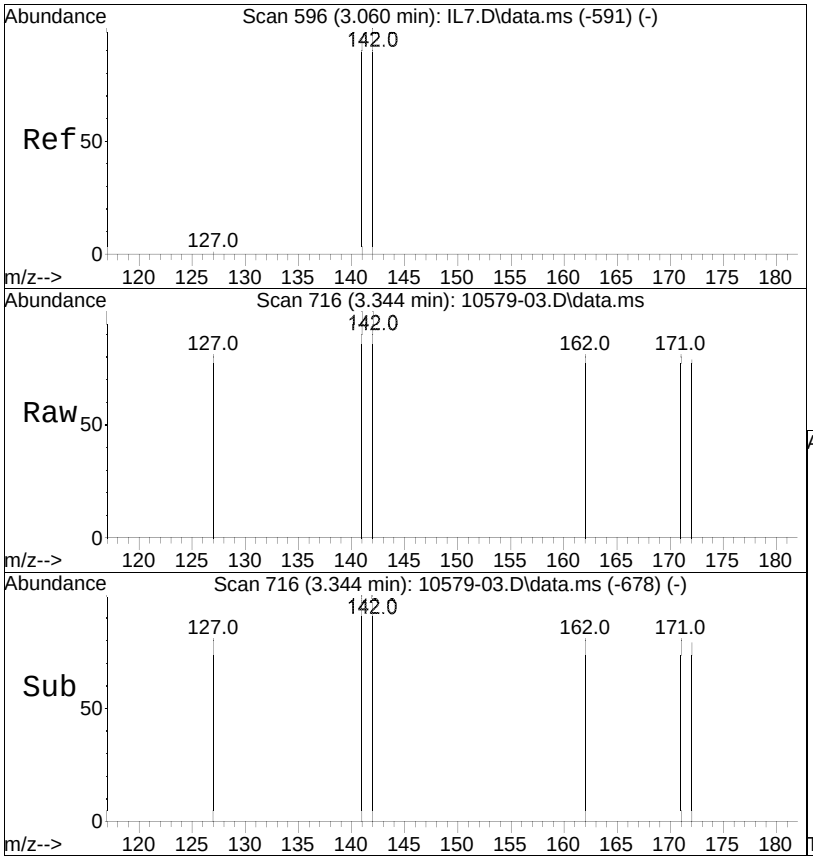


#9
Naphthalene
Concen: 15.42 ng/ml M6
RT: 2.956 min Scan# 594
Delta R.T. -0.001 min
Lab File: 10579-03.D
Acq: 05 Mar 2024 10:31 am

Tgt Ion:128 Resp: 37

Ion	Ratio	Lower	Upper
128	100		
129	10.8	8.8	13.2
127	0.0	0.0	0.0

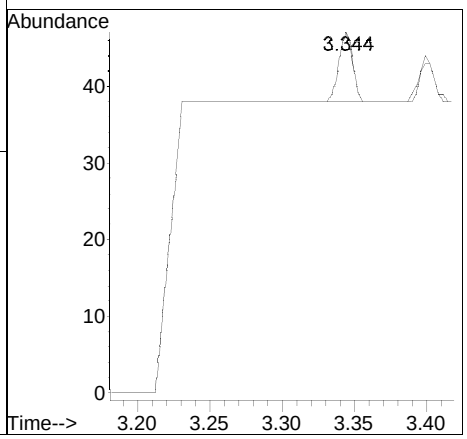


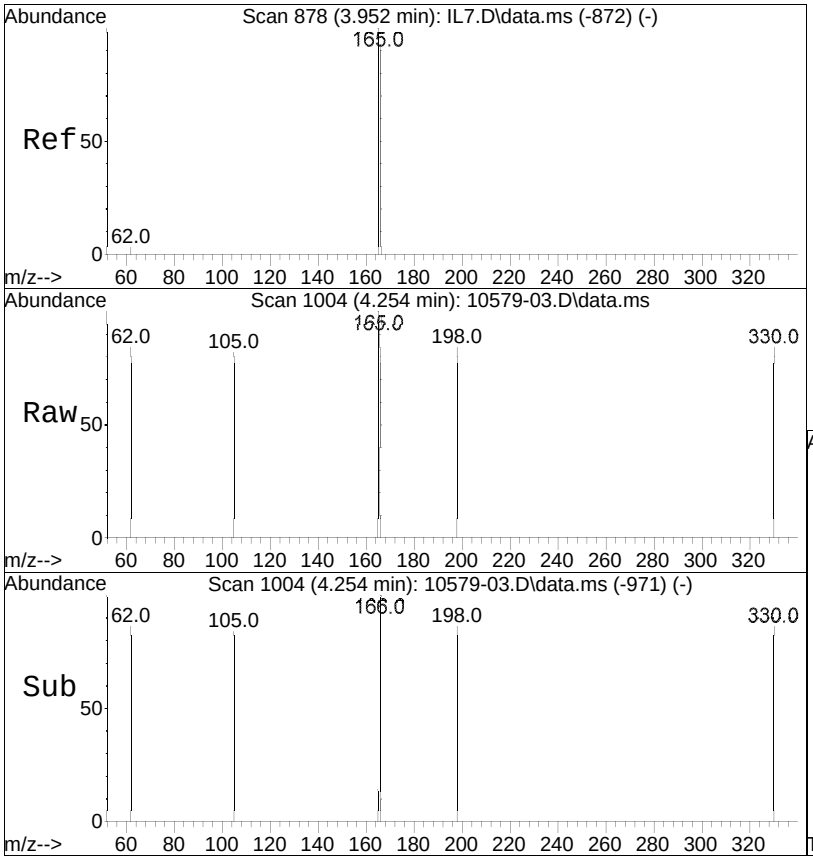


#11
2-Methylnaphthalene
Concen: 3.91 ng/ml
RT: 3.344 min Scan# 716
Delta R.T. -0.001 min
Lab File: 10579-03.D
Acq: 05 Mar 2024 10:31 am

Tgt Ion:142 Resp: 6

Ion	Ratio	Lower	Upper
142	100		
141	100.0	75.9	113.9

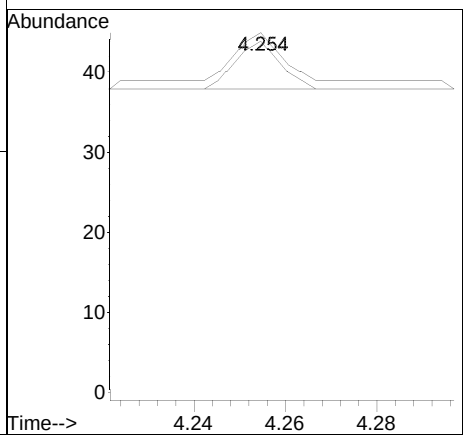


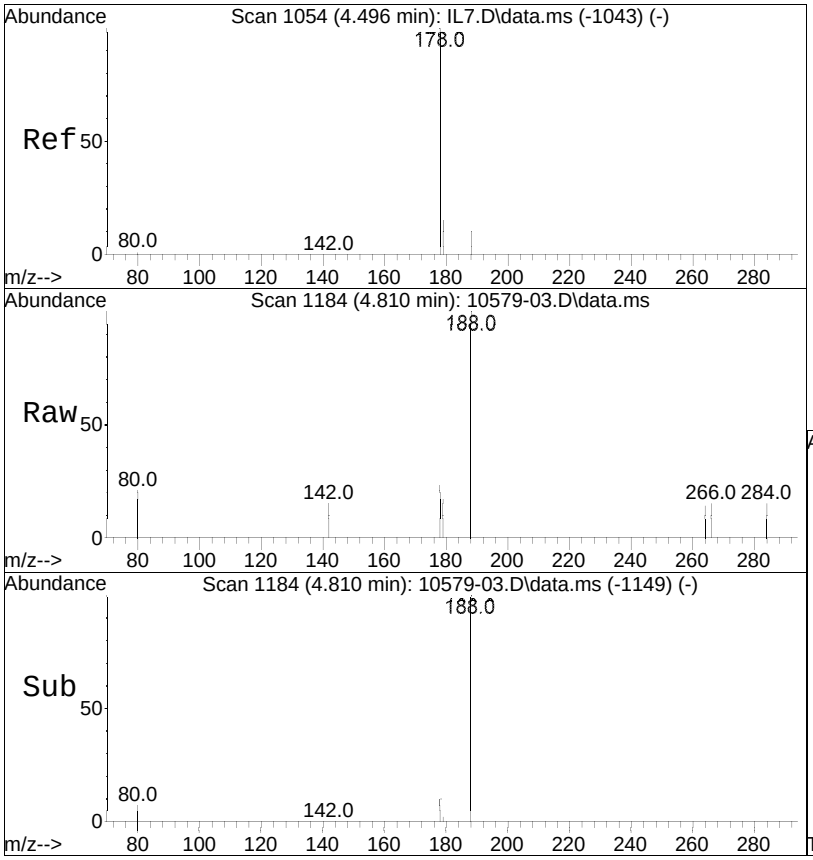


#20
Fluorene
Concen: 2.03 ng/ml M6
RT: 4.254 min Scan# 1004
Delta R.T. -0.004 min
Lab File: 10579-03.D
Acq: 05 Mar 2024 10:31 am

Tgt Ion:166 Resp: 4

Ion	Ratio	Lower	Upper
166	100		
165	100.0	85.7	128.5

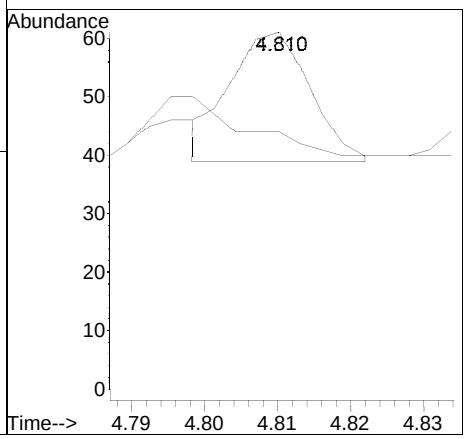


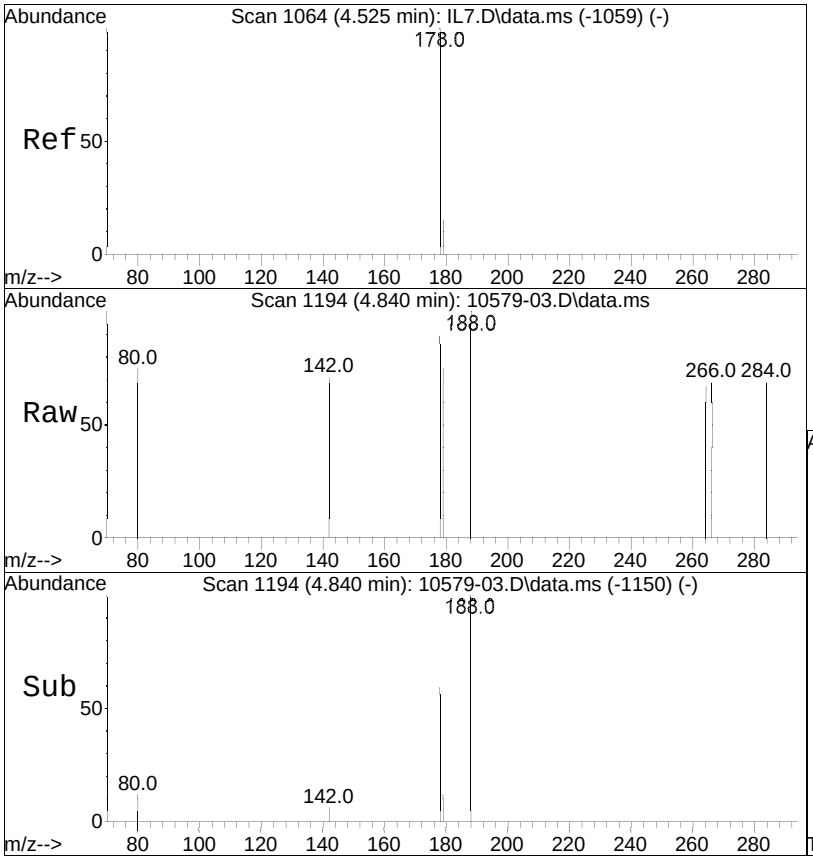


#26
Phenanthrene
Concen: 4.56 ng/ml M6
RT: 4.810 min Scan# 1184
Delta R.T. -0.004 min
Lab File: 10579-03.D
Acq: 05 Mar 2024 10:31 am

Tgt Ion:178 Resp: 17

Ion	Ratio	Lower	Upper
178	100		
179	17.6	12.2	18.4

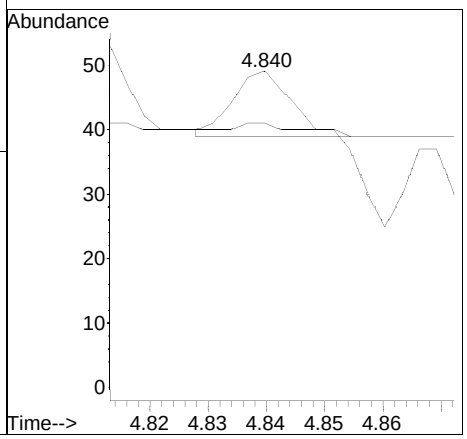


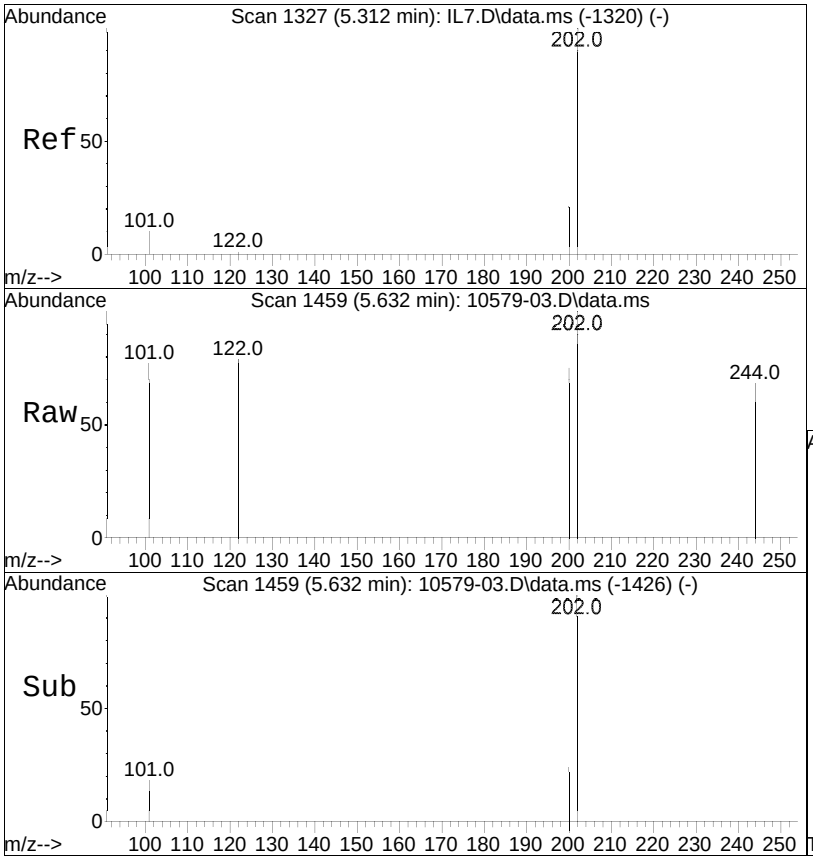


#27
Anthracene
Concen: 1.94 ng/ml M7
RT: 4.840 min Scan# 1194
Delta R.T. -0.004 min
Lab File: 10579-03.D
Acq: 05 Mar 2024 10:31 am

Tgt Ion:178 Resp: 7

Ion	Ratio	Lower	Upper
178	100		
179	14.3	12.2	18.2

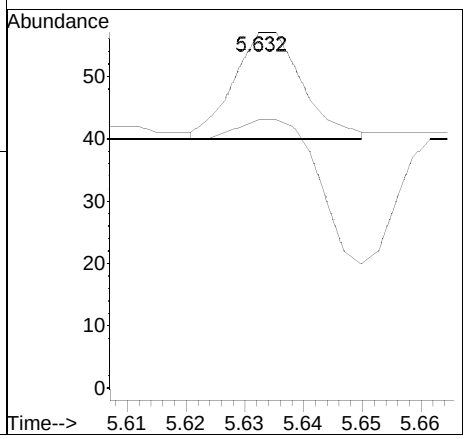


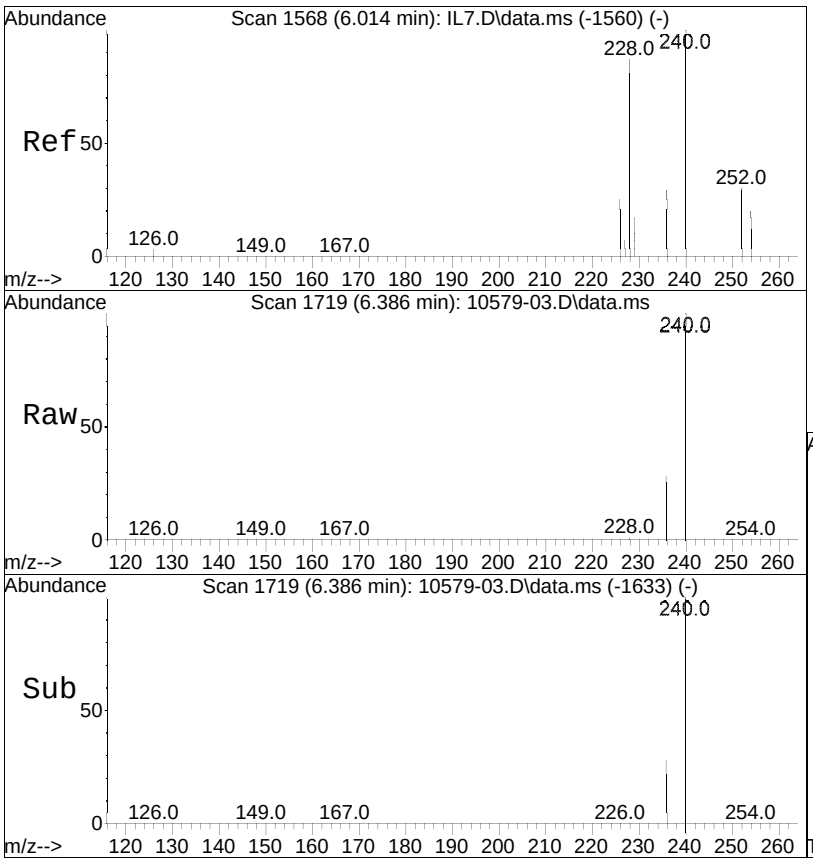


#29
Pyrene
Concen: 3.30 ng/ml M4
RT: 5.632 min Scan# 1459
Delta R.T. -0.009 min
Lab File: 10579-03.D
Acq: 05 Mar 2024 10:31 am

Tgt Ion:202 Resp: 14

Ion	Ratio	Lower	Upper
202	100		
200	21.4	17.7	26.5

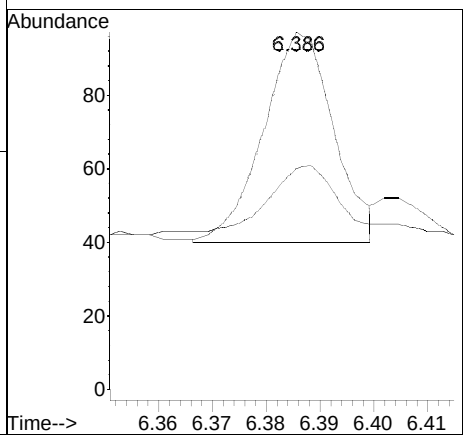


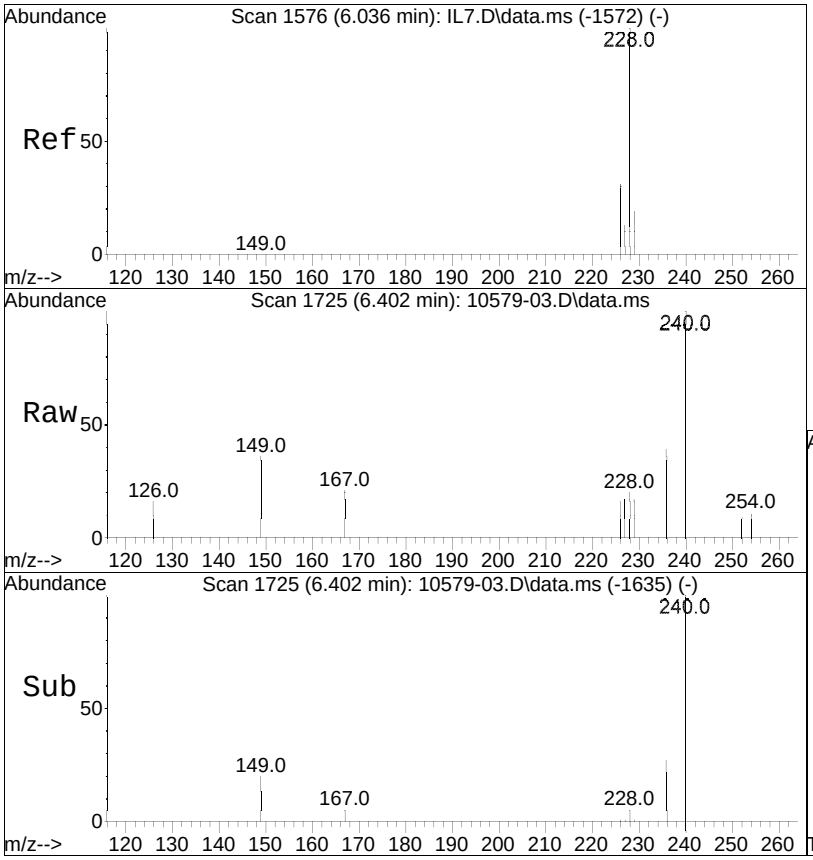


#32
Benzo[a]anthracene
Concen: 3.23 ng/ml M4
RT: 6.386 min Scan# 1719
Delta R.T. -0.003 min
Lab File: 10579-03.D
Acq: 05 Mar 2024 10:31 am

Tgt Ion:228 Resp: 52

Ion	Ratio	Lower	Upper
228	100		
229	30.8	15.7	23.5#

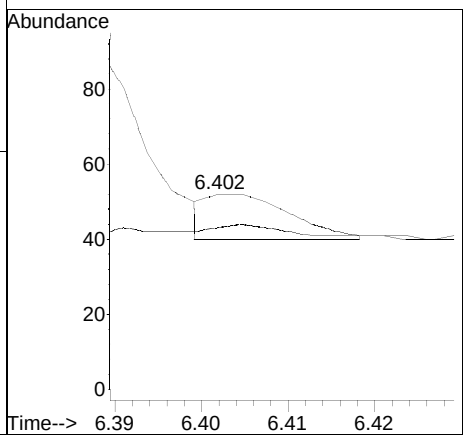




#34
Chrysene
Concen: 1.56 ng/ml M3
RT: 6.402 min Scan# 1725
Delta R.T. -0.014 min
Lab File: 10579-03.D
Acq: 05 Mar 2024 10:31 am

Tgt Ion:228 Resp: 8

Ion	Ratio	Lower	Upper
228	100		
226	25.0	24.6	36.8

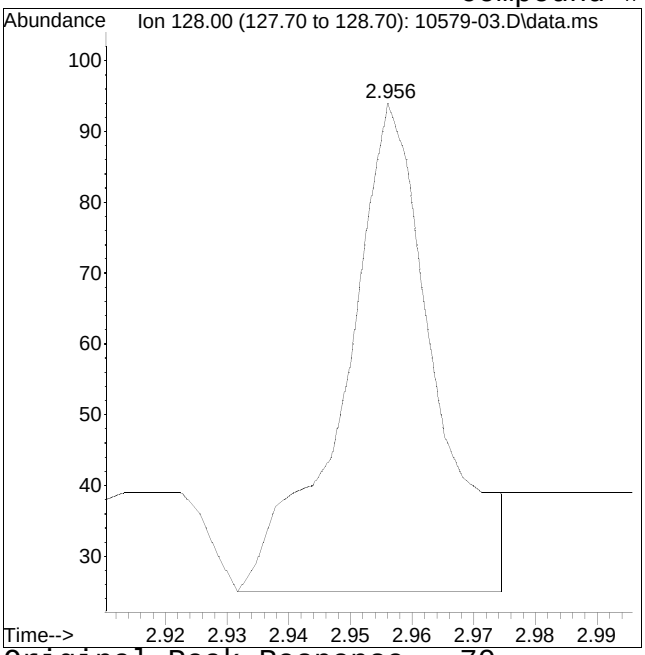


Manual Integration Report

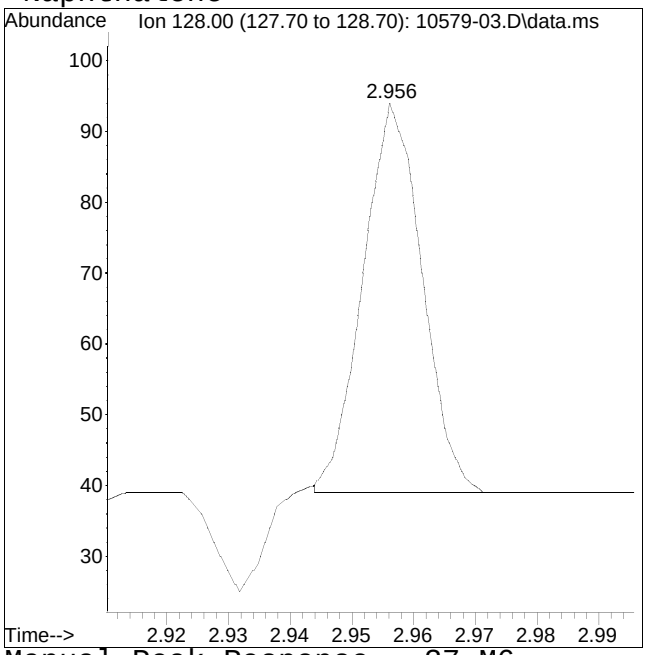
Data Path : I:\8270SIM\SV128\240305\
Data File : 10579-03.D
Date Inj'd : 3/5/2024 10:31 am
Sample : L2410579-03,32,,ah

QMethod : SIM-LVI_231211_sv128.M
Operator : SV128:jjw
Instrument : SV128
Quant Date : 3/5/2024 10:46 am

Compound #9: Naphthalene



Original Peak Response = 70



Manual Peak Response = 37 M6

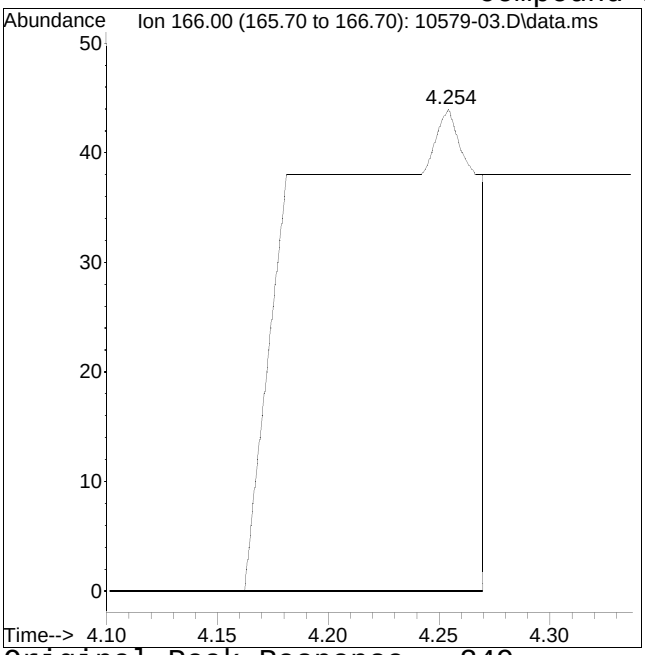
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

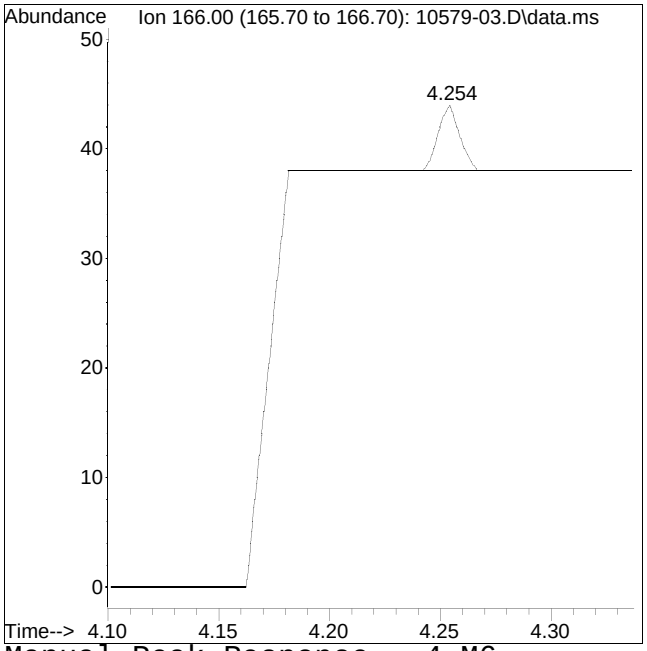
Data Path : I:\8270SIM\SV128\240305\
Data File : 10579-03.D
Date Inj'd : 3/5/2024 10:31 am
Sample : L2410579-03,32,,ah

QMethod : SIM-LVI_231211_sv128.M
Operator : SV128:jjw
Instrument : SV128
Quant Date : 3/5/2024 10:46 am

Compound #20: Fluorene



Original Peak Response = 249



Manual Peak Response = 4 M6

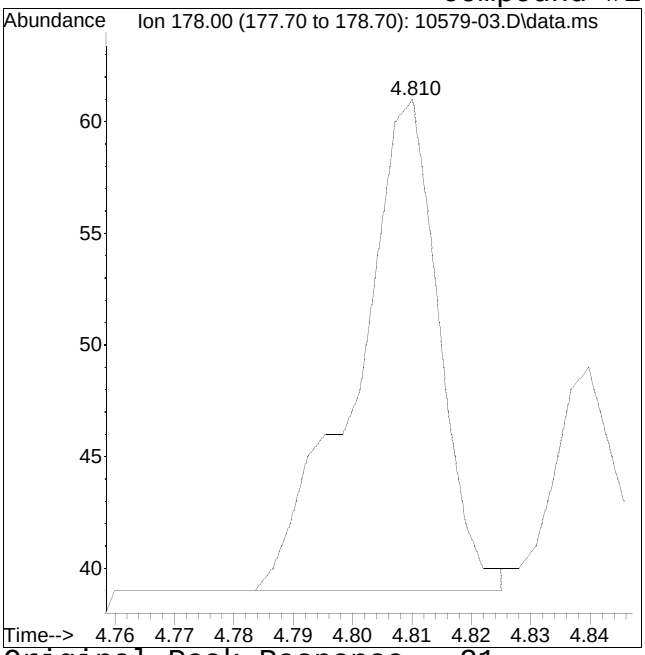
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

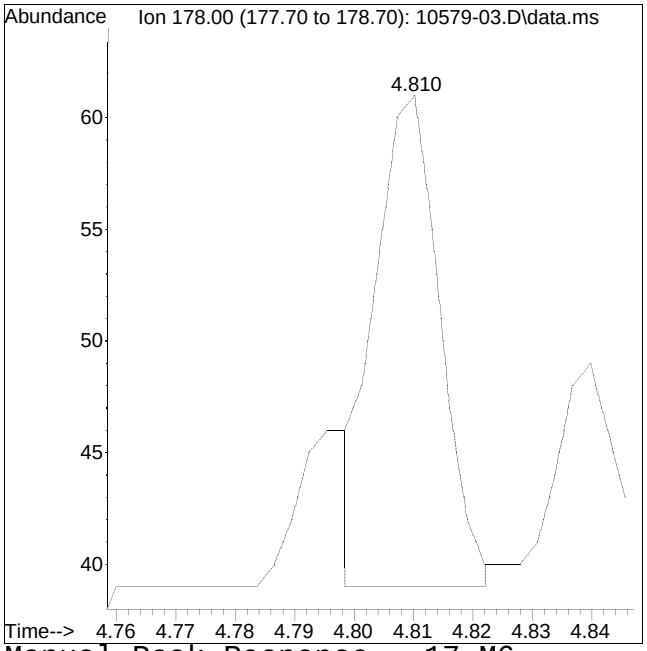
Data Path : I:\8270SIM\SV128\240305\
Data File : 10579-03.D
Date Inj'd : 3/5/2024 10:31 am
Sample : L2410579-03,32,,ah

QMethod : SIM-LVI_231211_sv128.M
Operator : SV128:jjw
Instrument : SV128
Quant Date : 3/5/2024 10:46 am

Compound #26: Phenanthrene



Original Peak Response = 21



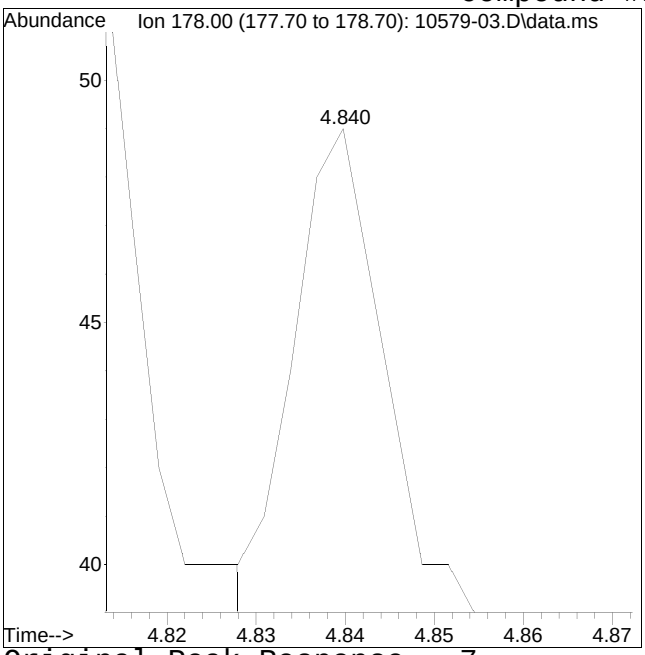
Manual Peak Response = 17 M6

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

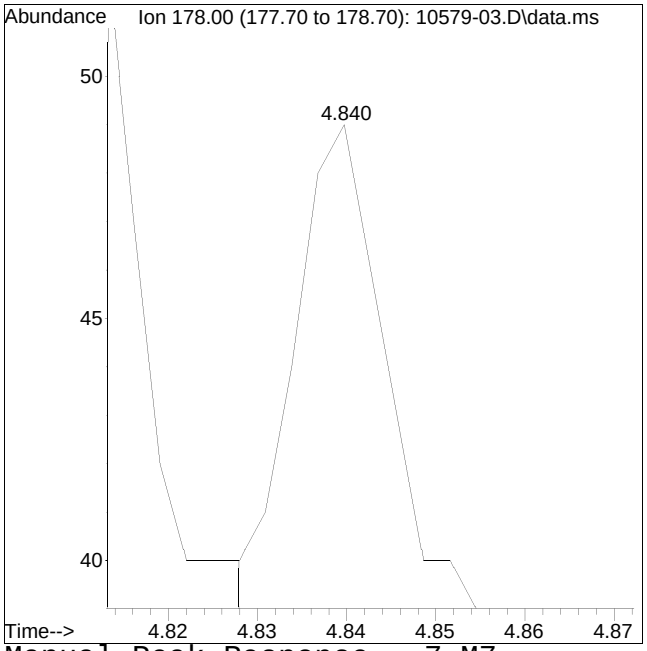
Manual Integration Report

Data Path : I:\8270SIM\SV128\240305\ QMethod : SIM-LVI_231211_sv128.M
Data File : 10579-03.D Operator : SV128:jjw
Date Inj'd : 3/5/2024 10:31 am Instrument : SV128
Sample : L2410579-03,32,,ah Quant Date : 3/5/2024 10:46 am

Compound #27: Anthracene



Original Peak Response = 7



Manual Peak Response = 7 M7

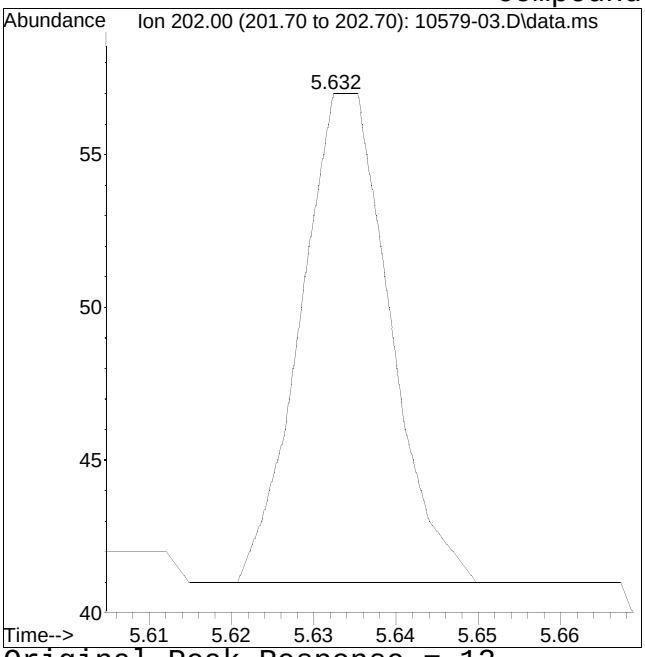
M7 = A qualifier ion was manually integrated (only for GC/MS data).

Manual Integration Report

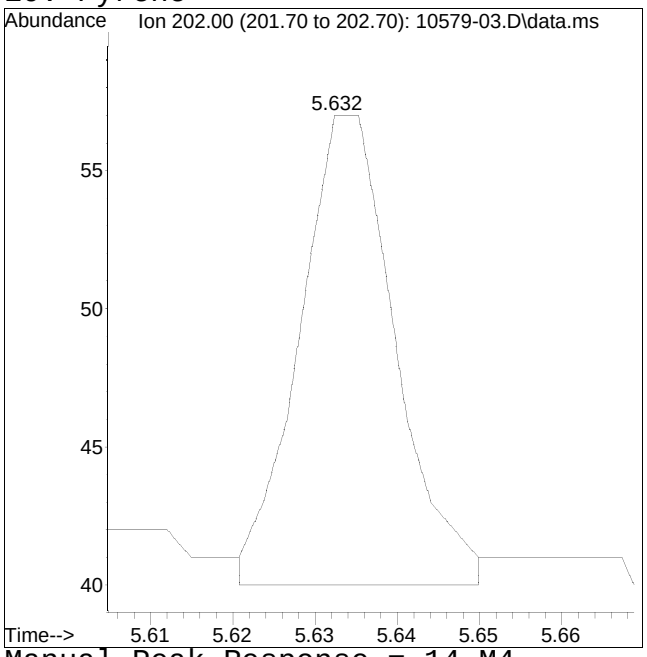
Data Path : I:\8270SIM\SV128\240305\
Data File : 10579-03.D
Date Inj'd : 3/5/2024 10:31 am
Sample : L2410579-03,32,,ah

QMethod : SIM-LVI_231211_sv128.M
Operator : SV128:jjw
Instrument : SV128
Quant Date : 3/5/2024 10:46 am

Compound #29: Pyrene



Original Peak Response = 12



Manual Peak Response = 14 M4

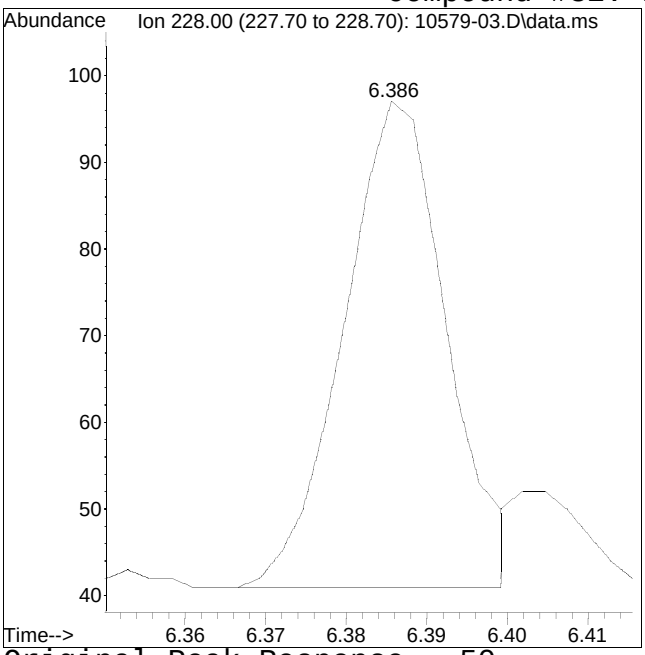
M4 = Poor automated baseline construction.

Manual Integration Report

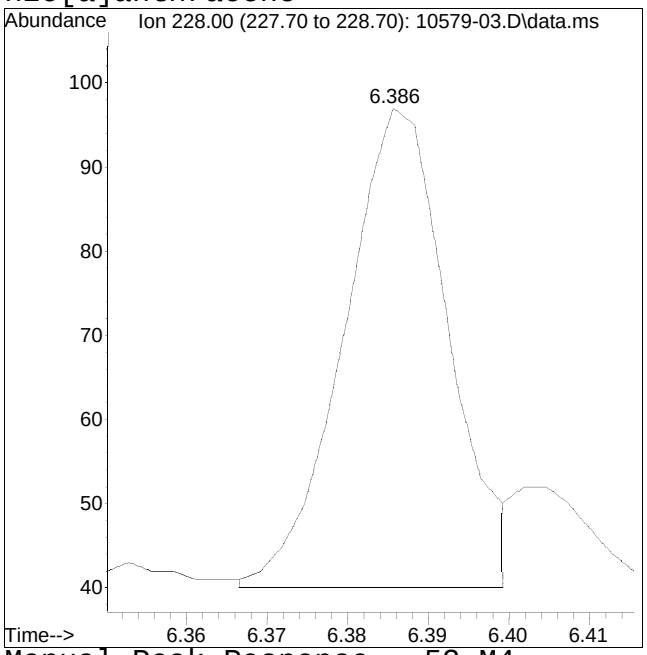
Data Path : I:\8270SIM\SV128\240305\
Data File : 10579-03.D
Date Inj'd : 3/5/2024 10:31 am
Sample : L2410579-03,32,,ah

QMethod : SIM-LVI_231211_sv128.M
Operator : SV128:jjw
Instrument : SV128
Quant Date : 3/5/2024 10:46 am

Compound #32: Benzo[a]anthracene



Original Peak Response = 50



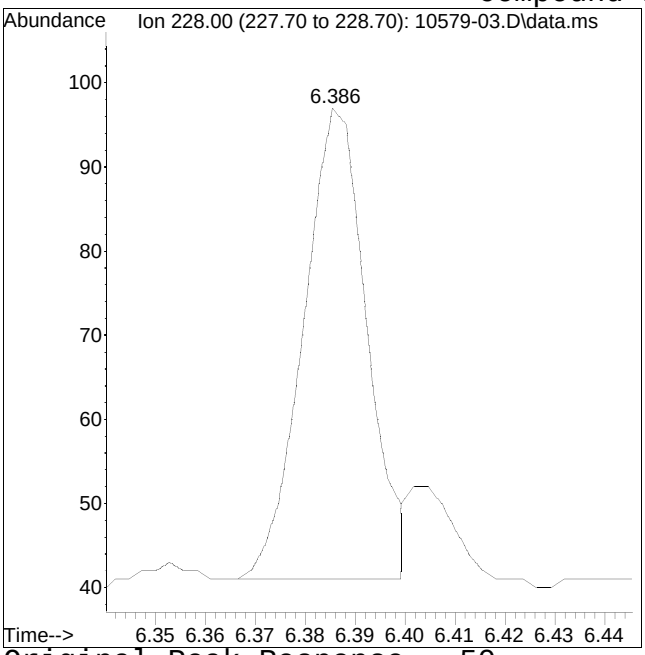
Manual Peak Response = 52 M4

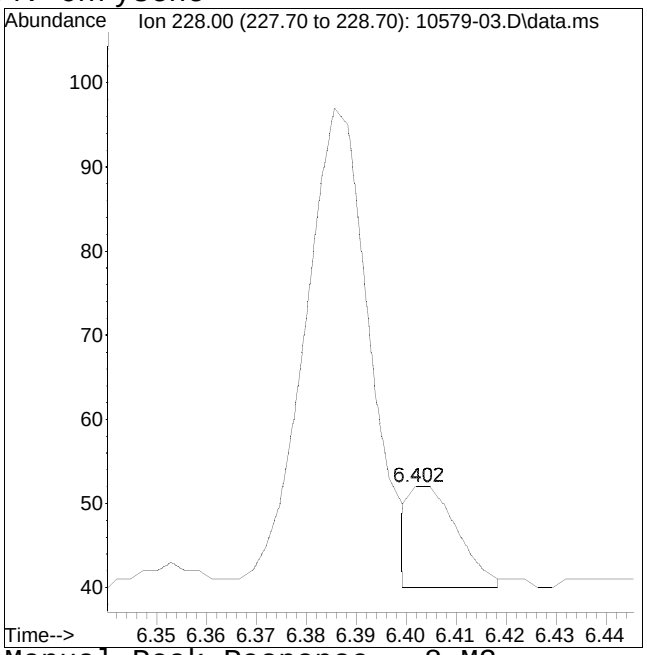
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\8270SIM\SV128\240305\ QMethod : SIM-LVI_231211_sv128.M
Data File : 10579-03.D Operator : SV128:jjw
Date Inj'd : 3/5/2024 10:31 am Instrument : SV128
Sample : L2410579-03,32,,ah Quant Date : 3/5/2024 10:46 am

Compound #34: Chrysene





Original Peak Response = 50 Manual Peak Response = 8 M3

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV128\240305\
Data File : 10579-05.D
Acq On : 05 Mar 2024 11:05 am
Operator : SV128:jjw
Sample : L2410579-05,32,,ah
Misc : WG1892213,wg1892049,ical20676
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Mar 05 11:22:56 2024
Quant Method : I:\8270sim\sv128\240305\SIM-LVI_231211_sv128.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Mar 05 07:15:56 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv128\240305\ccv0305a.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.269	152	2879	4000.000	ng/ml	0.00
Standard Area 1 = 1565			Recovery = 183.96%			
8) Naphthalene-d8	2.944	136	10666	4000.000	ng/ml	0.00
Standard Area 1 = 5966			Recovery = 178.78%			
17) Acenaphthene-d10	3.940	164	6671	4000.000	ng/ml	0.00
Standard Area 1 = 4044			Recovery = 164.96%			
22) Phenanthrene-d10	4.796	188	16167	4000.000	ng/ml	0.00
Standard Area 1 = 10610			Recovery = 152.38%			
31) Chrysene-d12	6.385	240	16341	4000.000	ng/ml	-0.01
Standard Area 1 = 12274			Recovery = 133.14%			
36) Perylene-d12	7.687	264	18147	4000.000	ng/ml	-0.02
Standard Area 1 = 14188			Recovery = 127.90%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.659	112	1745	2406.963	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 48.14%			
3) Phenol-d6	2.083	99	1917	2262.555	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 45.25%			
7) Nitrobenzene-d5	2.556	82	1246	1819.729	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 72.79%			
13) 2-Fluorobiphenyl	3.552	172	3770	1666.704	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 66.67%			
21) 2,4,6-Tribromophenol	4.395	330	1106	3317.732	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 66.35%			
30) 4-Terphenyl-d14	5.729	244	7049	2092.827	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 83.71%			
Target Compounds						Qvalue
6) Hexachloroethane	0.000		0	N.D.		
9) Naphthalene	2.957	128	875M6	319.902	ng/ml	
10) Hexachlorobutadiene	0.000		0	N.D.		
11) 2-Methylnaphthalene	3.345	142	74	42.351	ng/ml	99
14) 2-Chloronaphthalene	0.000		0	N.D.		
16) Acenaphthylene	0.000		0	N.D. d		
18) Acenaphthene	3.955	153	21	9.312	ng/ml	88
20) Fluorene	4.255	166	27M6	11.863	ng/ml	
24) Hexachlorobenzene	0.000		0	N.D. d		
25) Pentachlorophenol	0.000		0	N.D. d		

Data Path : I:\8270SIM\SV128\240305\
Data File : 10579-05.D
Acq On : 05 Mar 2024 11:05 am
Operator : SV128:jjw
Sample : L2410579-05,32,,ah
Misc : WG1892213,wg1892049,ical20676
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Mar 05 11:22:56 2024
Quant Method : I:\8270sim\sv128\240305\SIM-LVI_231211_sv128.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Mar 05 07:15:56 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv128\240305\ccv0305a.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Phenanthrene	4.808	178	46M6	10.522	ng/ml	
27) Anthracene	4.837	178	8M4	1.894	ng/ml	
28) Fluoranthene	5.502	202	18M4	3.748	ng/ml	
29) Pyrene	5.633	202	16M4	3.220	ng/ml	
32) Benzo[a]anthracene	6.385	228	55M6	2.855	ng/ml	
34) Chrysene	6.402	228	6M3	1.065	ng/ml	
37) Benzo[b]fluoranthene	0.000		0	N.D.	d	
38) Benzo[k]fluoranthene	0.000		0	N.D.	d	
39) Benzo[a]pyrene	0.000		0	N.D.	d	
40) Indeno[1,2,3-cd]pyrene	0.000		0	N.D.	d	
41) Dibenzo[a,h]anthracene	0.000		0	N.D.		
42) Benzo[g,h,i]perylene	0.000		0	N.D.	d	

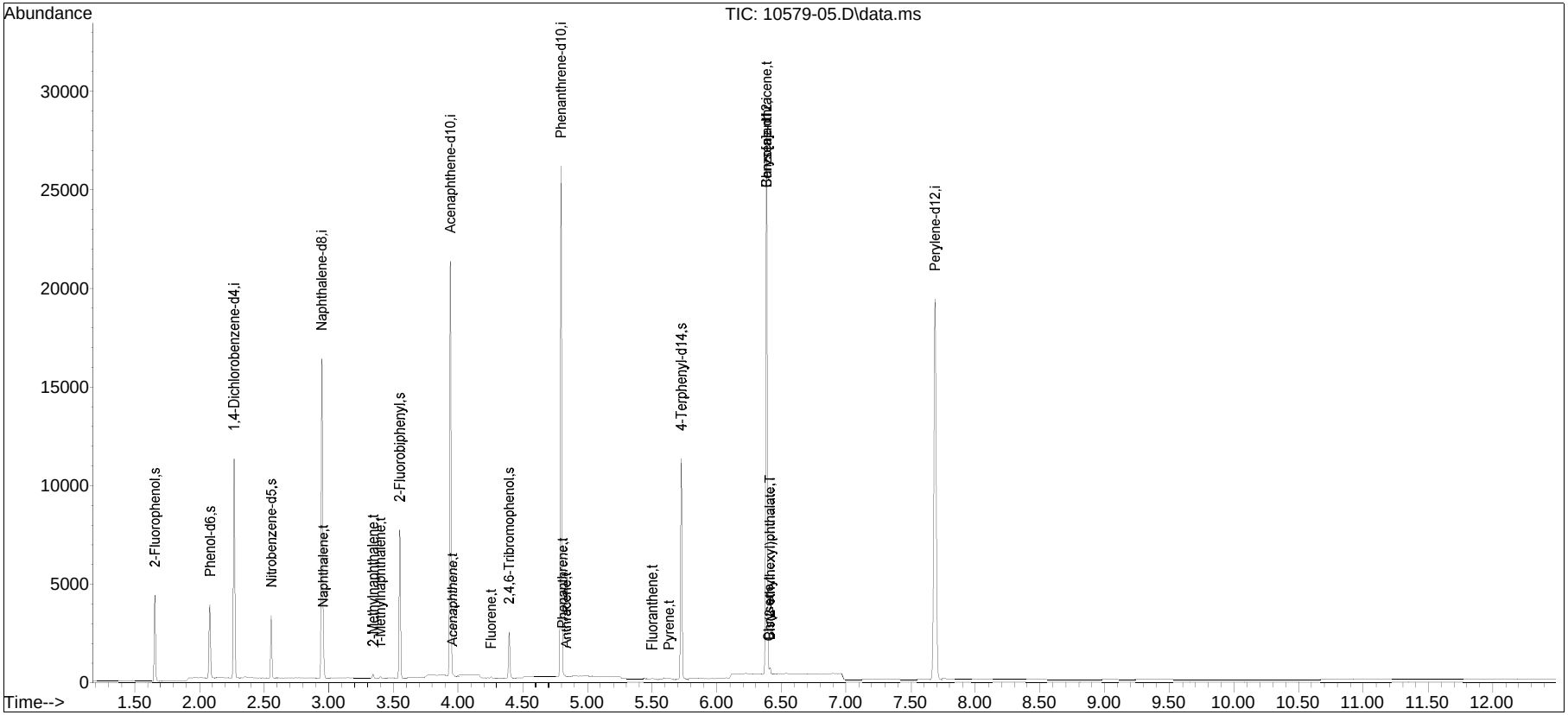
(#) = qualifier out of range (m) = manual integration (+) = signals summed

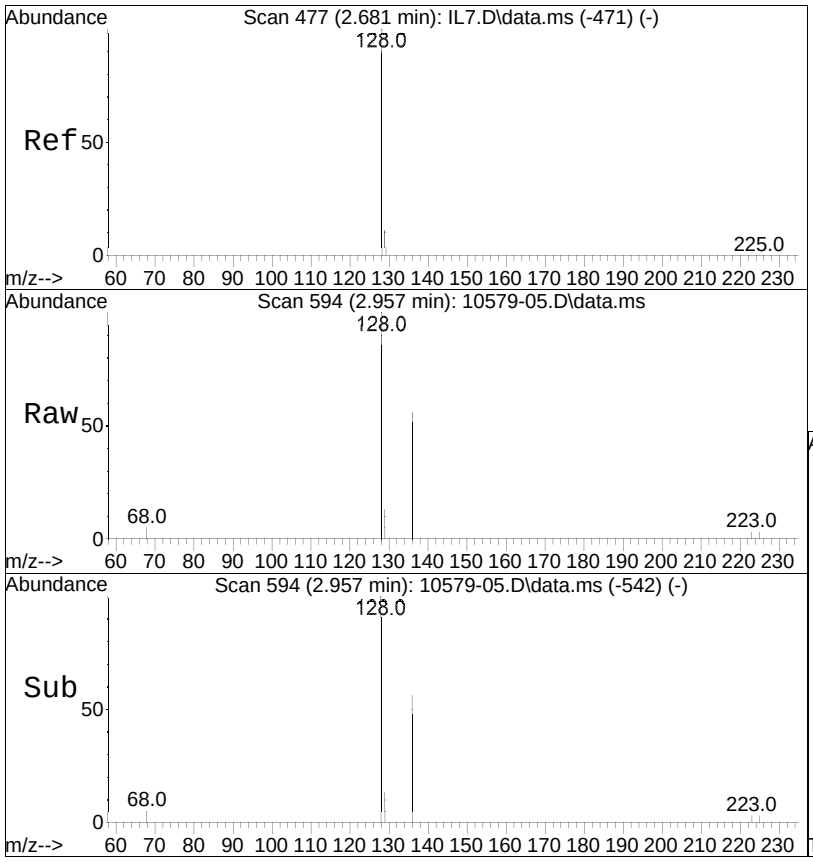
Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV128\240305\
Data File : 10579-05.D
Acq On : 05 Mar 2024 11:05 am
Operator : SV128:jjw
Sample : L2410579-05,32,,ah
Misc : WG1892213,wg1892049,ical20676
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Mar 05 11:22:56 2024
Quant Method : I:\8270sim\sv128\240305\SIM-LVI_231211_sv128.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Mar 05 07:15:56 2024
Response via : Initial Calibration

Sub List : DEFAULT - All compounds listedv0305a.D•

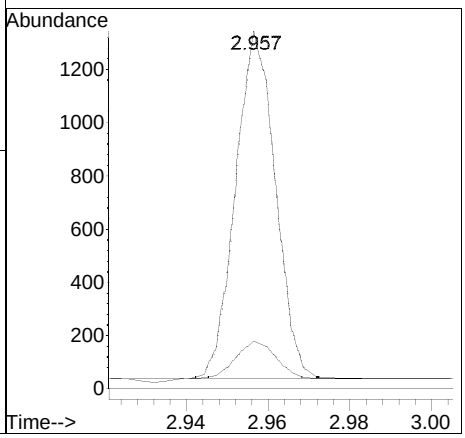


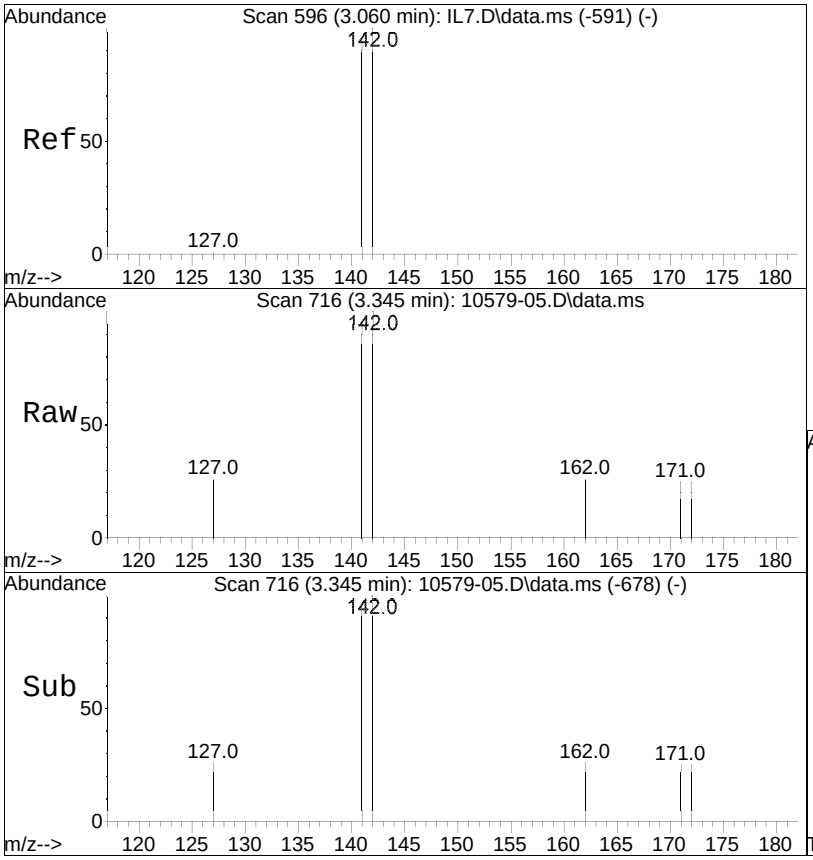


#9
Naphthalene
Concen: 319.90 ng/ml M6
RT: 2.957 min Scan# 594
Delta R.T. -0.000 min
Lab File: 10579-05.D
Acq: 05 Mar 2024 11:05 am

Tgt Ion:128 Resp: 875

Ion	Ratio	Lower	Upper
128	100		
129	24.7	8.8	13.2#
127	0.0	0.0	0.0

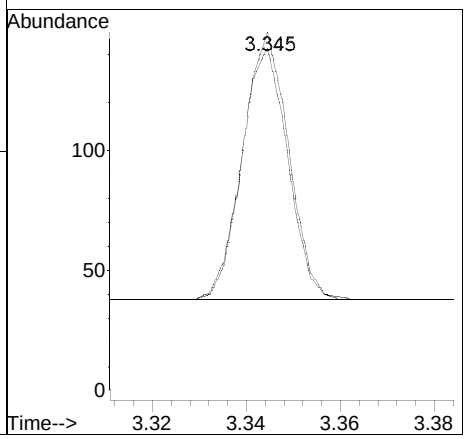


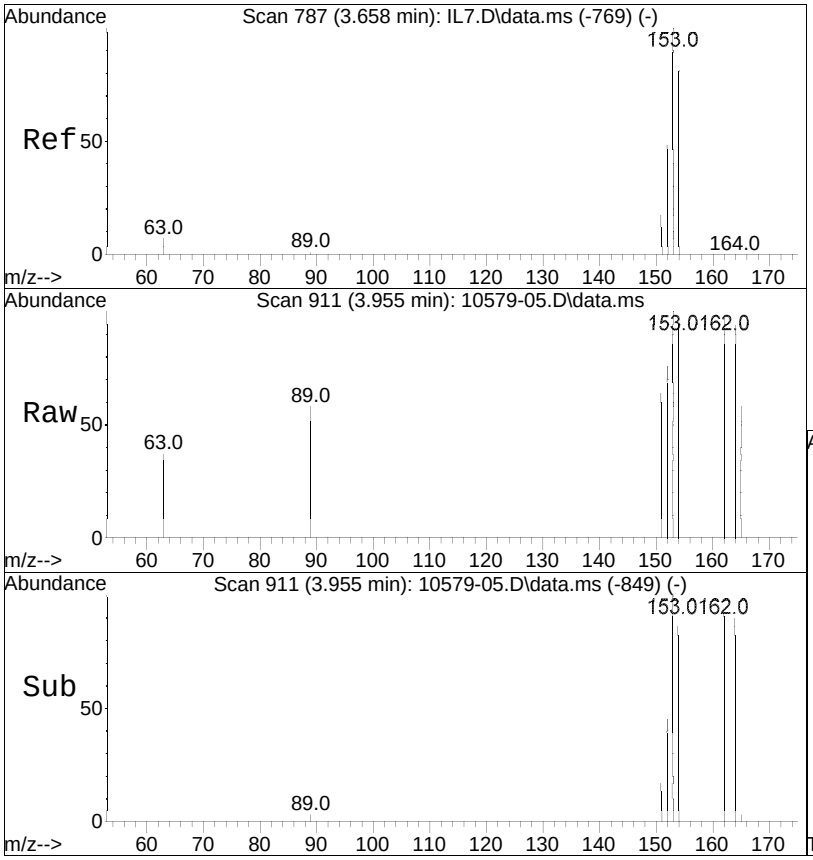


#11
2-Methylnaphthalene
Concen: 42.35 ng/ml
RT: 3.345 min Scan# 716
Delta R.T. -0.000 min
Lab File: 10579-05.D
Acq: 05 Mar 2024 11:05 am

Tgt Ion:142 Resp: 74

Ion	Ratio	Lower	Upper
142	100		
141	95.9	75.9	113.9

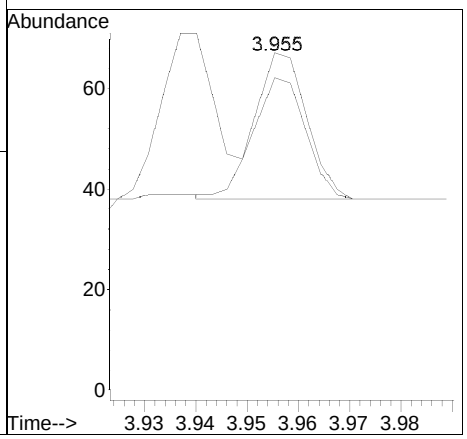


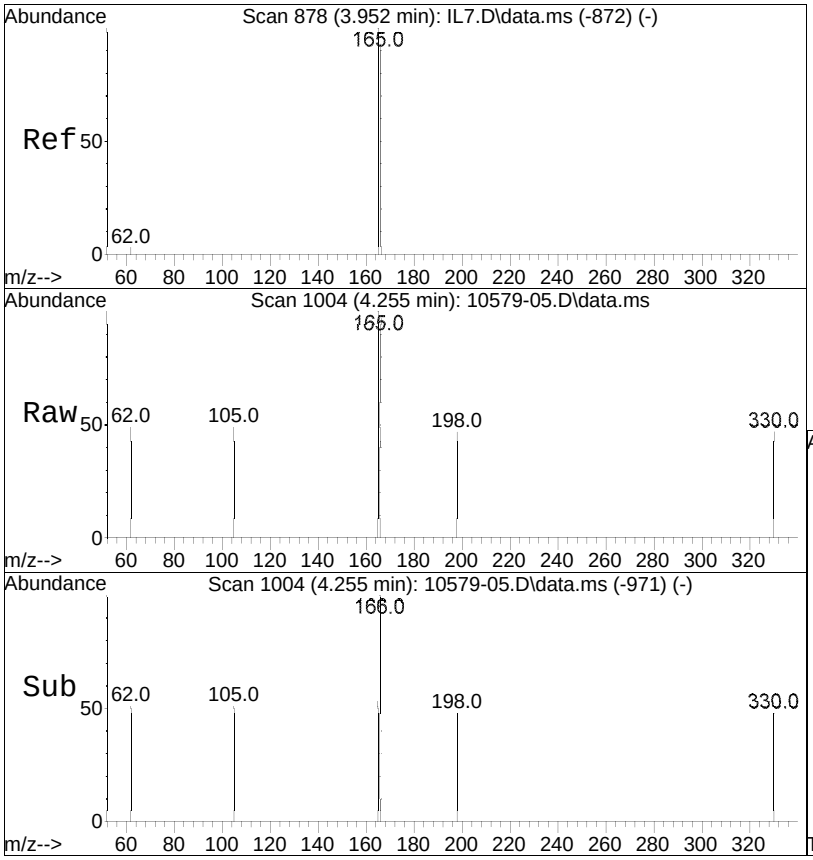


#18
Acenaphthene
Concen: 9.31 ng/ml
RT: 3.955 min Scan# 911
Delta R.T. -0.006 min
Lab File: 10579-05.D
Acq: 05 Mar 2024 11:05 am

Tgt Ion:153 Resp: 21

Ion	Ratio	Lower	Upper
153	100		
154	71.4	65.8	98.6

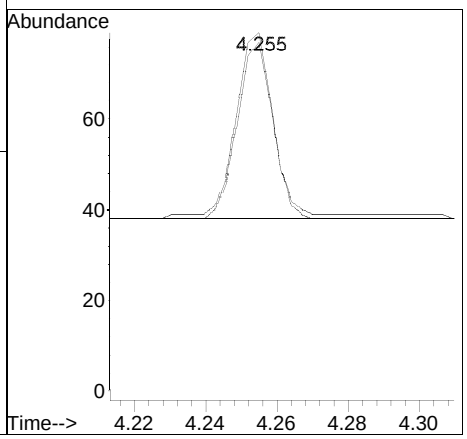


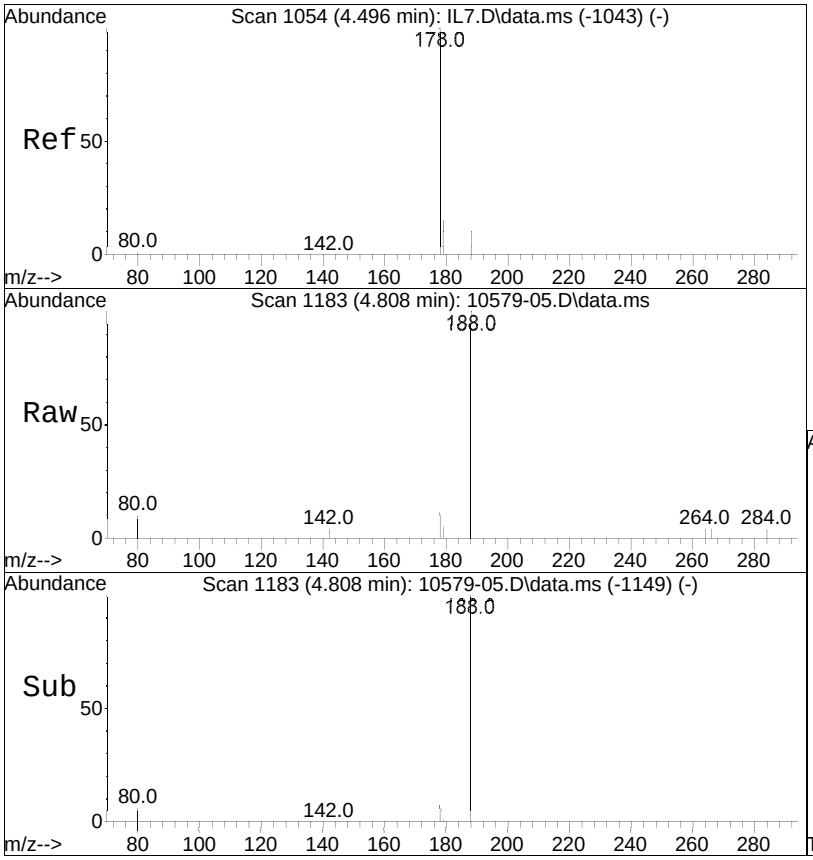


#20
Fluorene
Concen: 11.86 ng/ml M6
RT: 4.255 min Scan# 1004
Delta R.T. -0.003 min
Lab File: 10579-05.D
Acq: 05 Mar 2024 11:05 am

Tgt Ion:166 Resp: 27

Ion	Ratio	Lower	Upper
166	100		
165	111.1	85.7	128.5

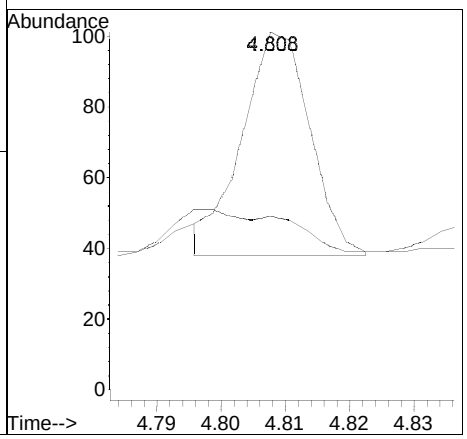


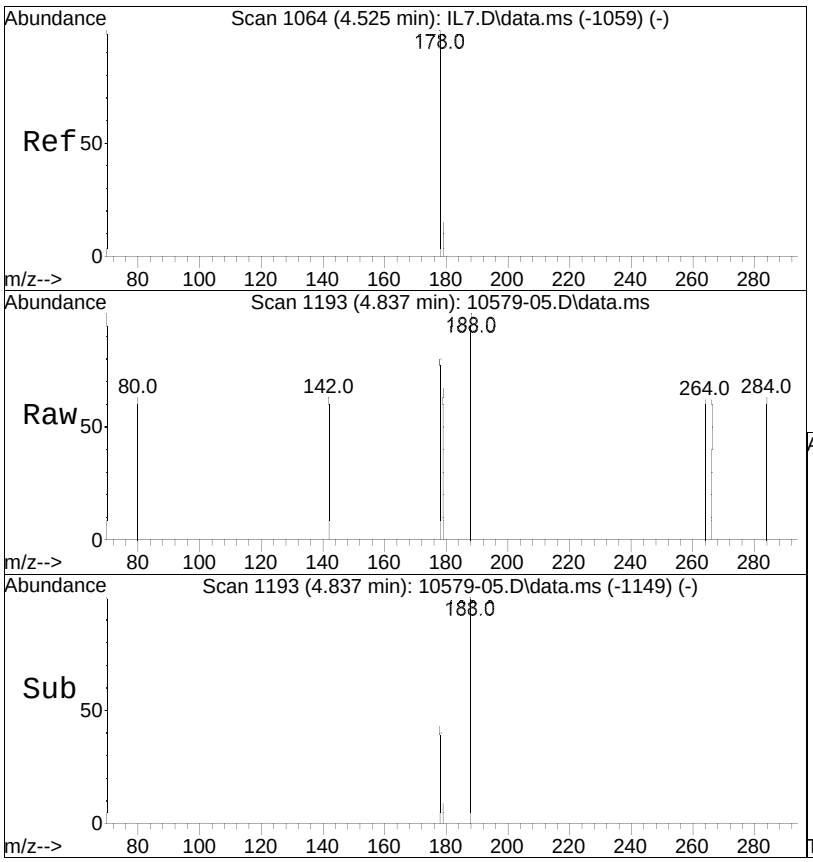


#26
Phenanthrene
Concen: 10.52 ng/ml M6
RT: 4.808 min Scan# 1183
Delta R.T. -0.006 min
Lab File: 10579-05.D
Acq: 05 Mar 2024 11:05 am

Tgt Ion:178 Resp: 46

Ion	Ratio	Lower	Upper
178	100		
179	13.0	12.2	18.4

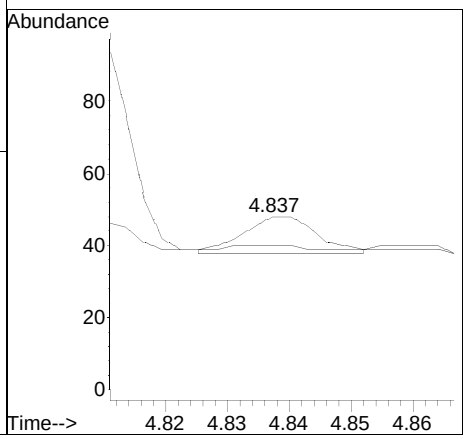


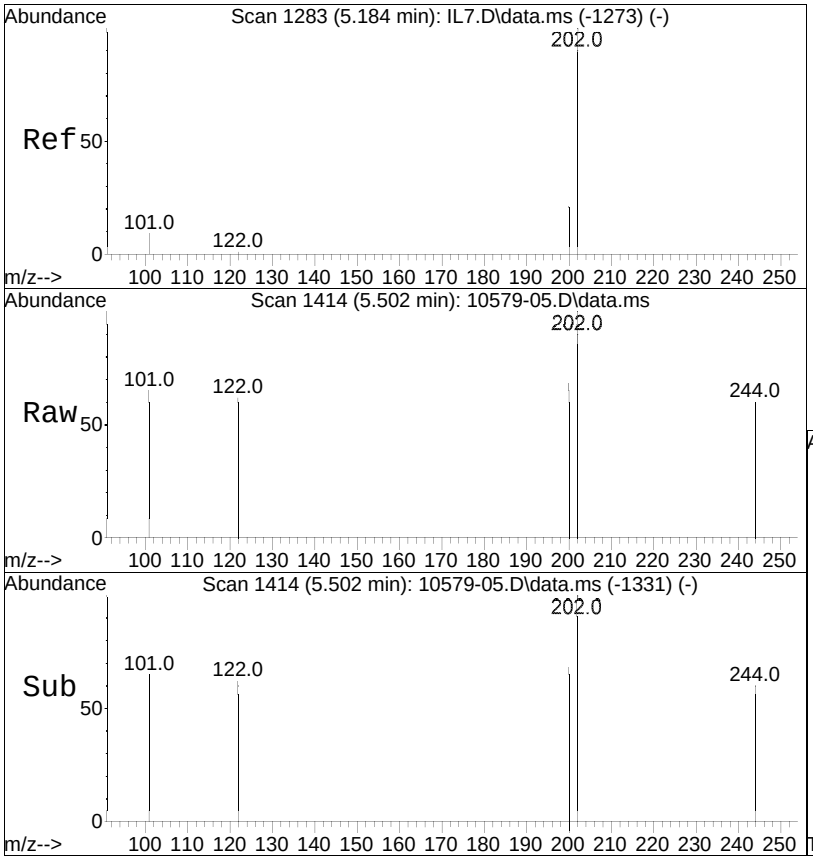


#27
Anthracene
Concen: 1.89 ng/ml M4
RT: 4.837 min Scan# 1193
Delta R.T. -0.006 min
Lab File: 10579-05.D
Acq: 05 Mar 2024 11:05 am

Tgt Ion:178 Resp: 8

Ion	Ratio	Lower	Upper
178	100		
179	25.0	12.2	18.2#

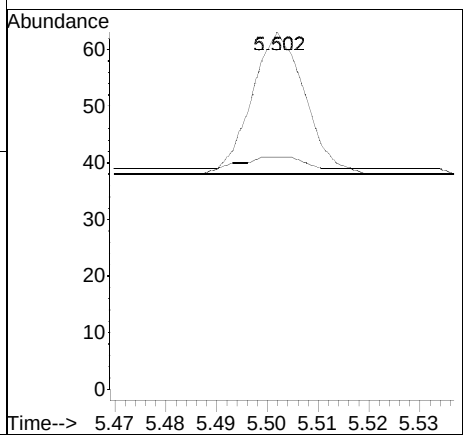


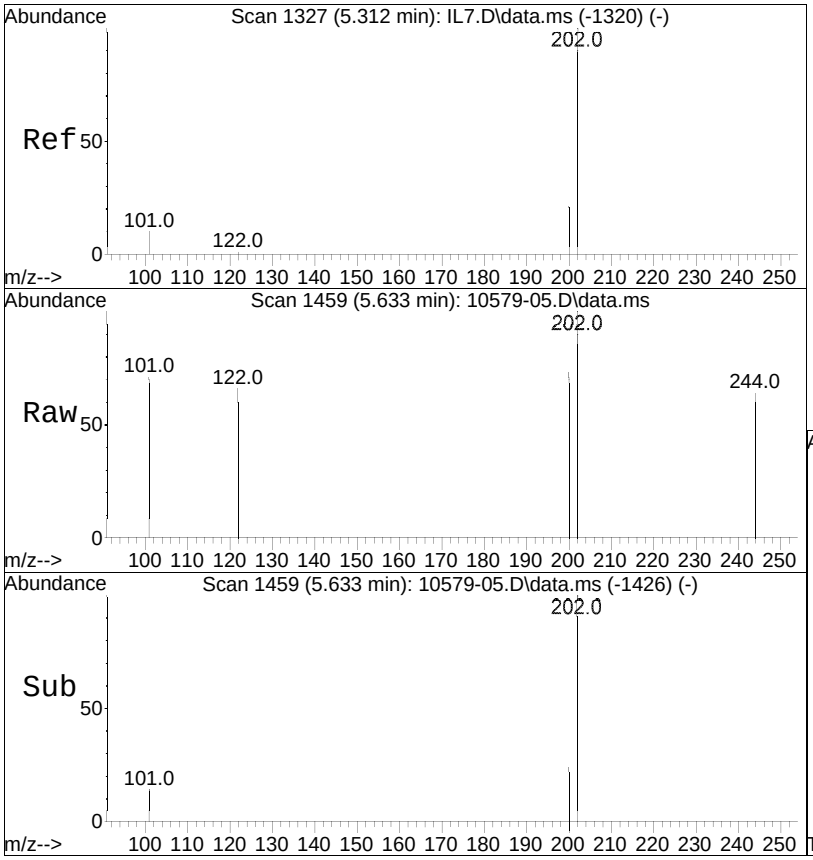


#28
Fluoranthene
Concen: 3.75 ng/ml M4
RT: 5.502 min Scan# 1414
Delta R.T. -0.009 min
Lab File: 10579-05.D
Acq: 05 Mar 2024 11:05 am

Tgt Ion:202 Resp: 18

Ion	Ratio	Lower	Upper
202	100		
101	11.1	7.2	10.8#

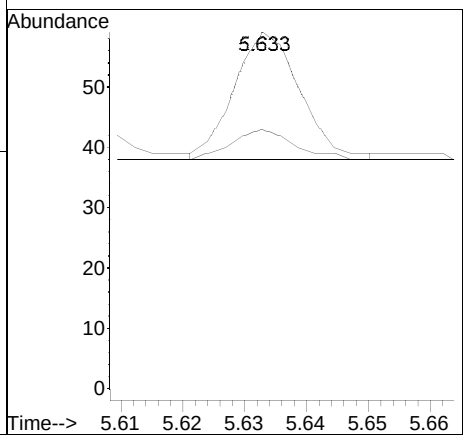


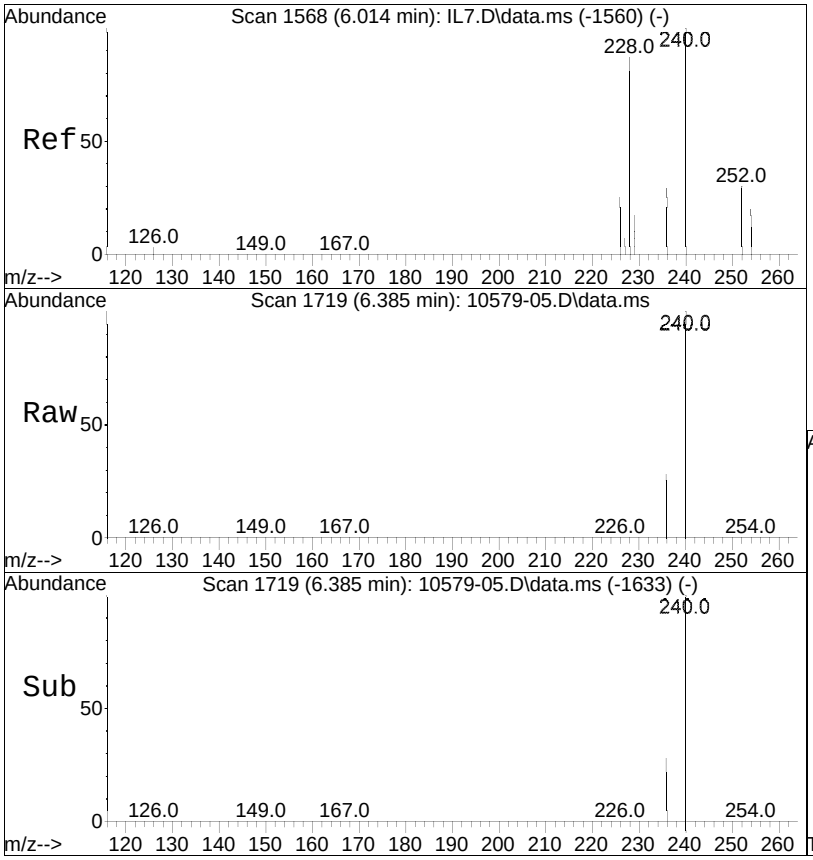


#29
Pyrene
Concen: 3.22 ng/ml M4
RT: 5.633 min Scan# 1459
Delta R.T. -0.009 min
Lab File: 10579-05.D
Acq: 05 Mar 2024 11:05 am

Tgt Ion:202 Resp: 16

Ion	Ratio	Lower	Upper
202	100		
200	18.8	17.7	26.5

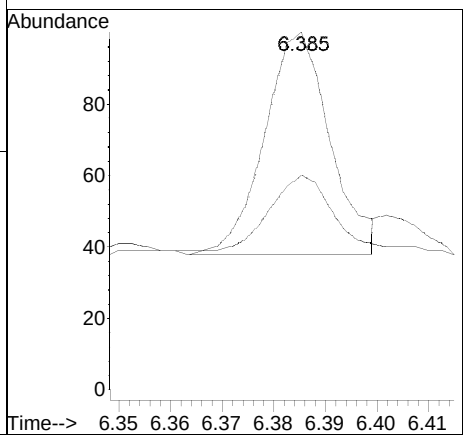


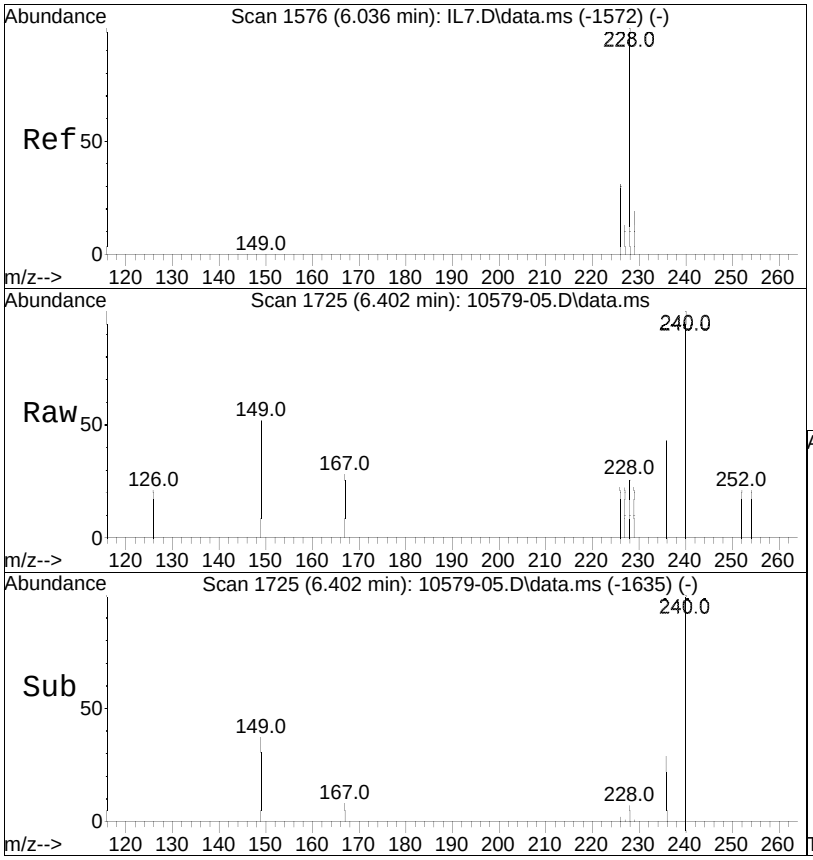


#32
Benzo[a]anthracene
Concen: 2.86 ng/ml M6
RT: 6.385 min Scan# 1719
Delta R.T. -0.003 min
Lab File: 10579-05.D
Acq: 05 Mar 2024 11:05 am

Tgt Ion:228 Resp: 55

Ion	Ratio	Lower	Upper
228	100		
229	32.7	15.7	23.5#

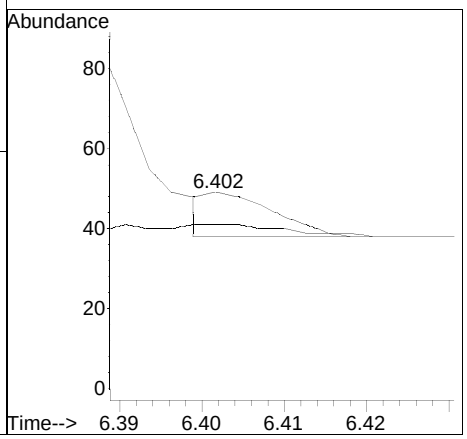




#34
Chrysene
Concen: 1.07 ng/ml M3
RT: 6.402 min Scan# 1725
Delta R.T. -0.014 min
Lab File: 10579-05.D
Acq: 05 Mar 2024 11:05 am

Tgt Ion:228 Resp: 6

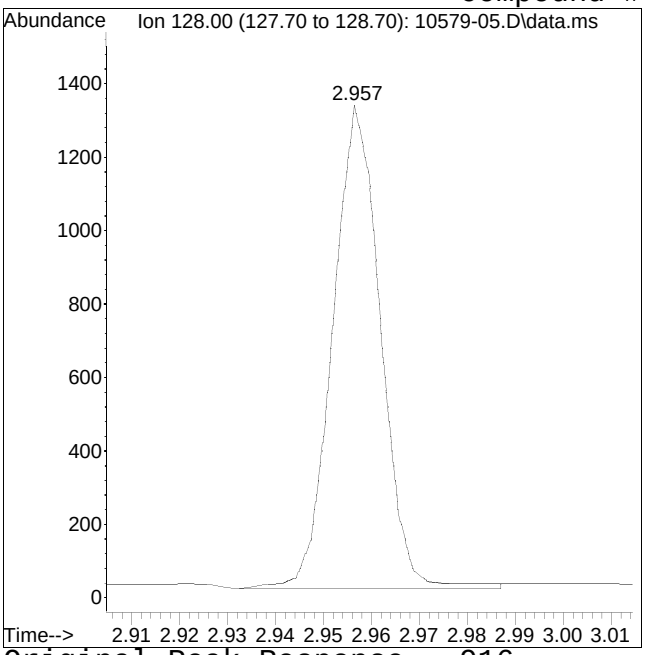
Ion	Ratio	Lower	Upper
228	100		
226	33.3	24.6	36.8



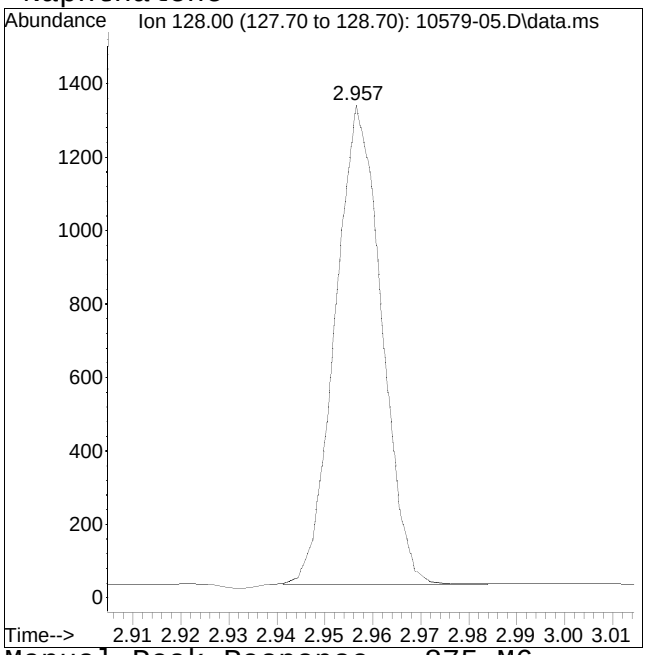
Manual Integration Report

Data Path	: I:\8270SIM\SV128\240305\	QMethod	: SIM-LVI_231211_sv128.M
Data File	: 10579-05.D	Operator	: SV128:jjw
Date Inj'd	: 3/5/2024 11:05 am	Instrument	: SV128
Sample	: L2410579-05,32,,ah	Quant Date	: 3/5/2024 11:20 am

Compound #9: Naphthalene



Original Peak Response = 916



Manual Peak Response = 875 M6

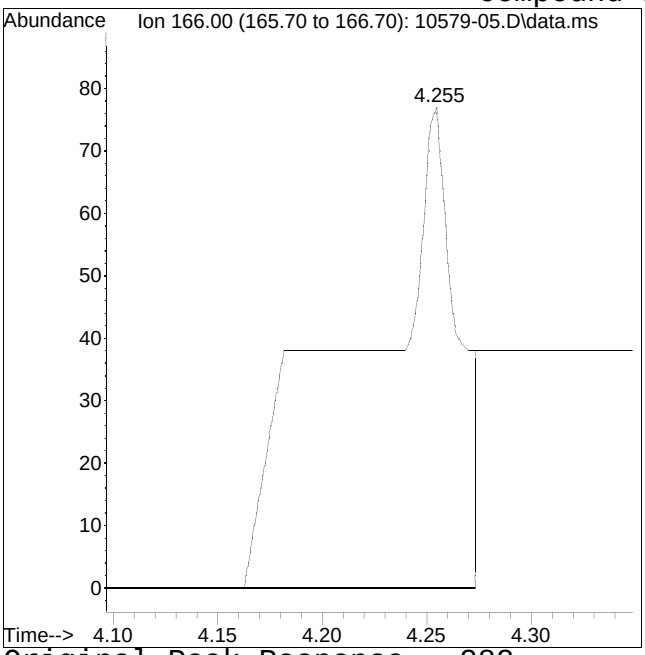
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

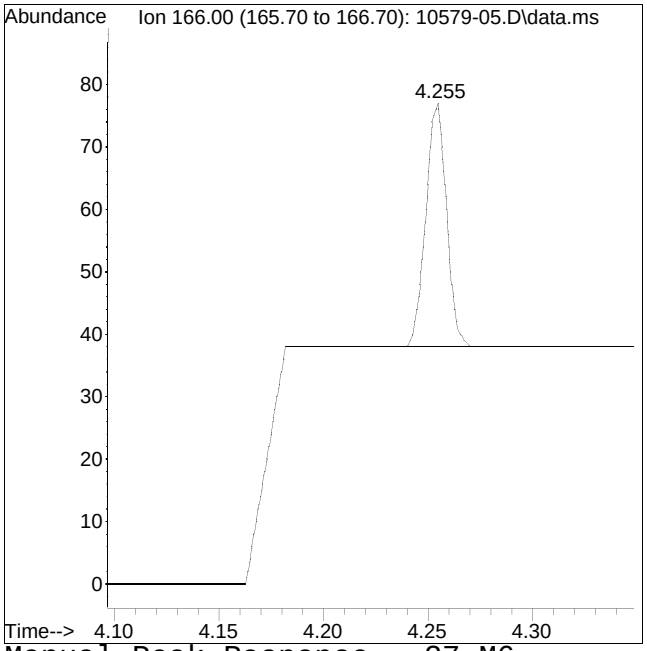
Data Path : I:\8270SIM\SV128\240305\
Data File : 10579-05.D
Date Inj'd : 3/5/2024 11:05 am
Sample : L2410579-05,32,,ah

QMethod : SIM-LVI_231211_sv128.M
Operator : SV128:jjw
Instrument : SV128
Quant Date : 3/5/2024 11:20 am

Compound #20: Fluorene



Original Peak Response = 282



Manual Peak Response = 27 M6

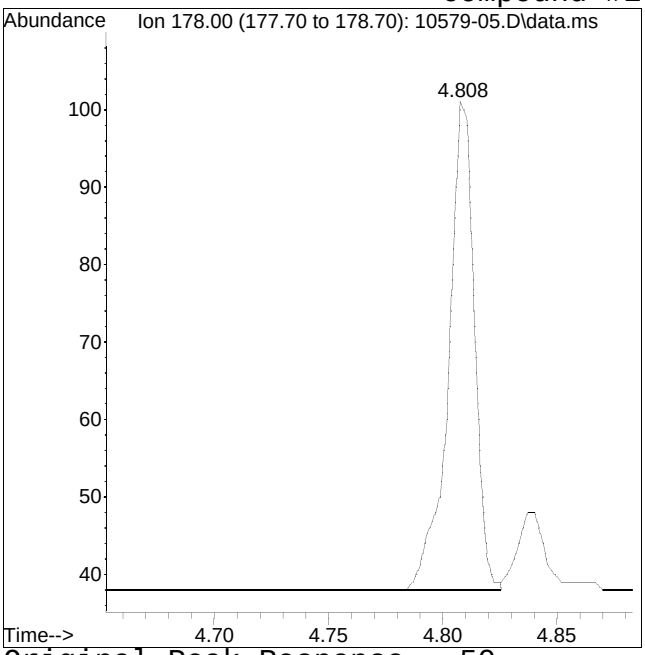
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

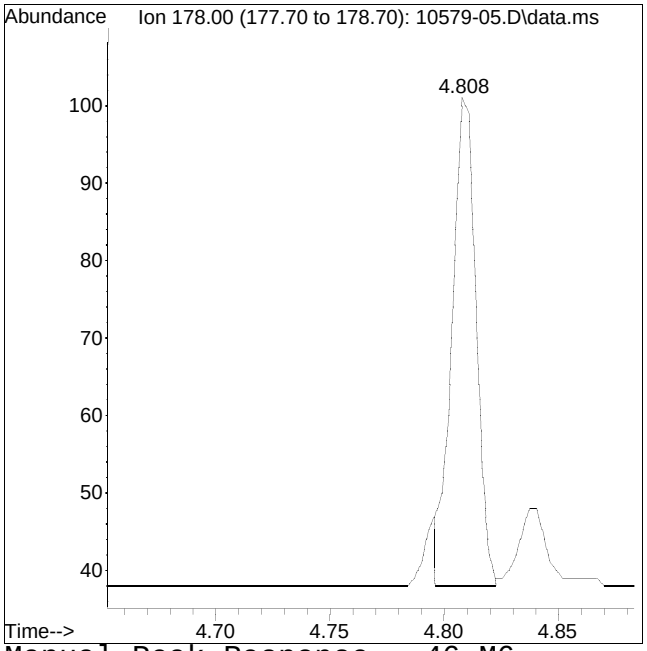
Data Path : I:\8270SIM\SV128\240305\
Data File : 10579-05.D
Date Inj'd : 3/5/2024 11:05 am
Sample : L2410579-05,32,,ah

QMethod : SIM-LVI_231211_sv128.M
Operator : SV128:jjw
Instrument : SV128
Quant Date : 3/5/2024 11:20 am

Compound #26: Phenanthrene



Original Peak Response = 50



Manual Peak Response = 46 M6

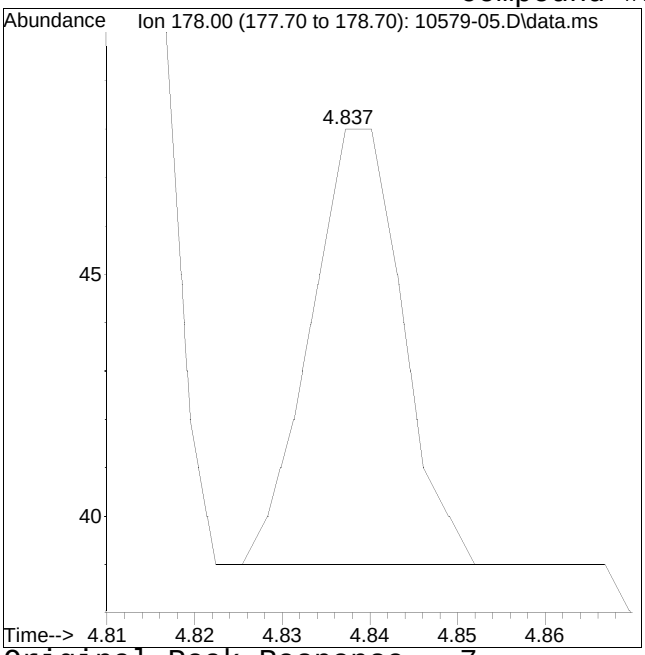
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

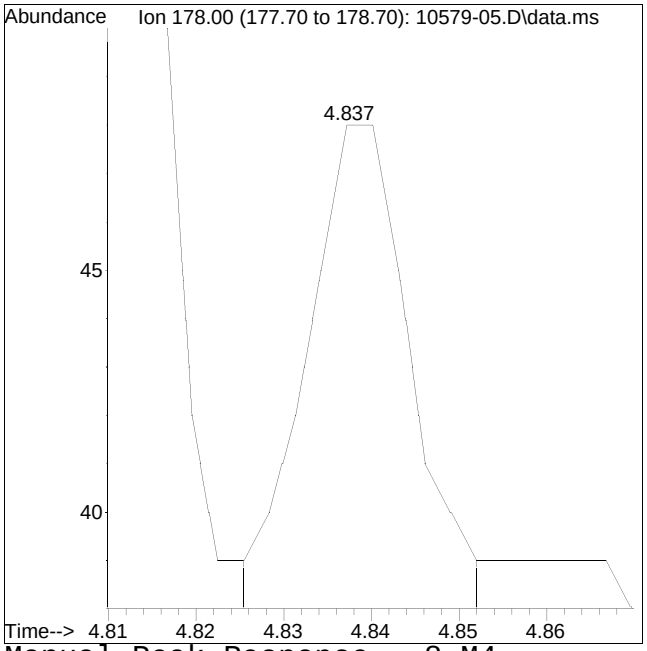
Data Path : I:\8270SIM\SV128\240305\
Data File : 10579-05.D
Date Inj'd : 3/5/2024 11:05 am
Sample : L2410579-05,32,,ah

QMethod : SIM-LVI_231211_sv128.M
Operator : SV128:jjw
Instrument : SV128
Quant Date : 3/5/2024 11:20 am

Compound #27: Anthracene



Original Peak Response = 7



Manual Peak Response = 8 M4

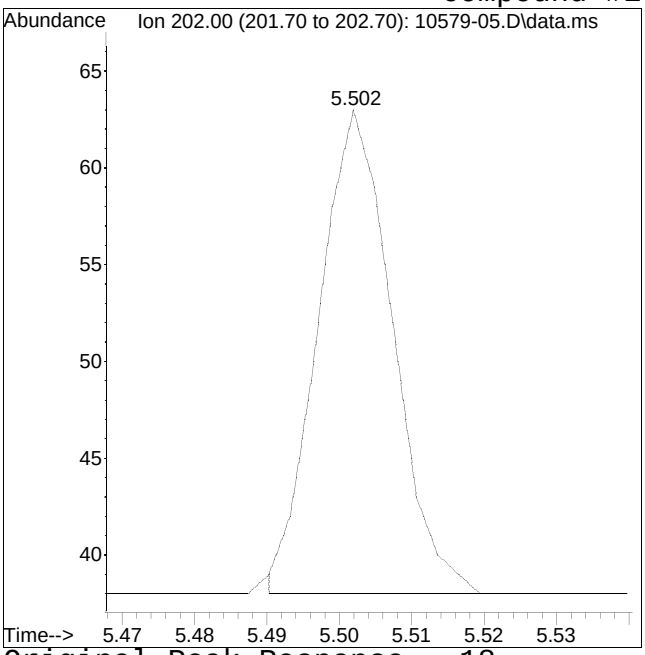
M4 = Poor automated baseline construction.

Manual Integration Report

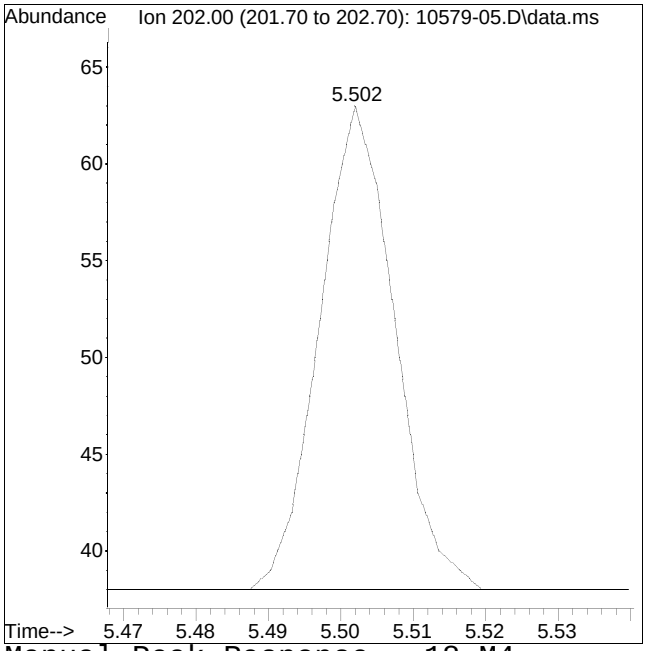
Data Path : I:\8270SIM\SV128\240305\
Data File : 10579-05.D
Date Inj'd : 3/5/2024 11:05 am
Sample : L2410579-05,32,,ah

QMethod : SIM-LVI_231211_sv128.M
Operator : SV128:jjw
Instrument : SV128
Quant Date : 3/5/2024 11:20 am

Compound #28: Fluoranthene



Original Peak Response = 18



Manual Peak Response = 18 M4

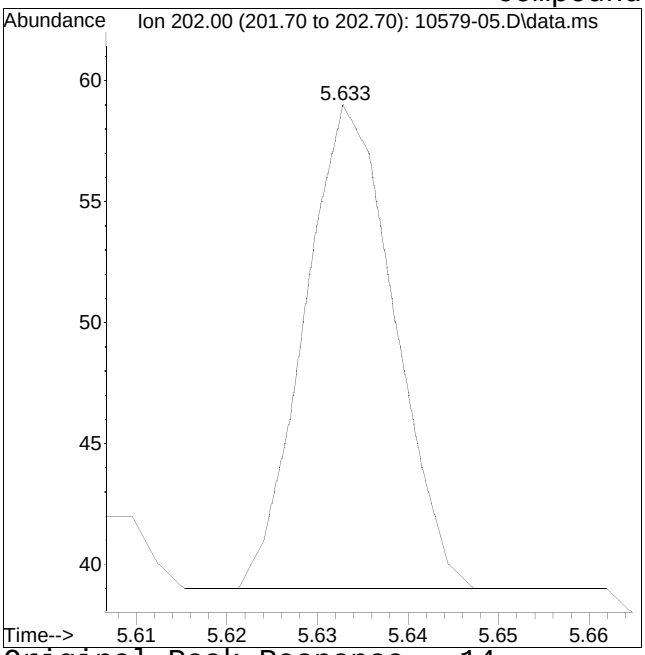
M4 = Poor automated baseline construction.

Manual Integration Report

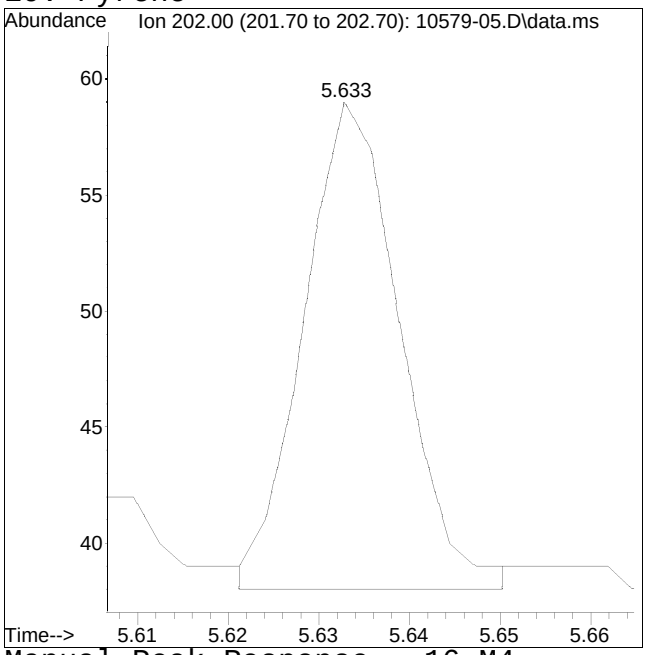
Data Path : I:\8270SIM\SV128\240305\
Data File : 10579-05.D
Date Inj'd : 3/5/2024 11:05 am
Sample : L2410579-05,32,,ah

QMethod : SIM-LVI_231211_sv128.M
Operator : SV128:jjw
Instrument : SV128
Quant Date : 3/5/2024 11:20 am

Compound #29: Pyrene



Original Peak Response = 14



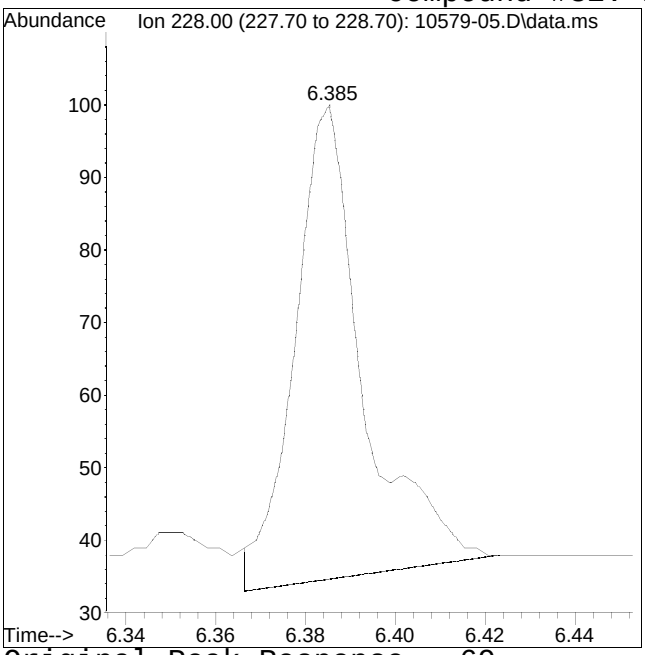
Manual Peak Response = 16 M4

M4 = Poor automated baseline construction.

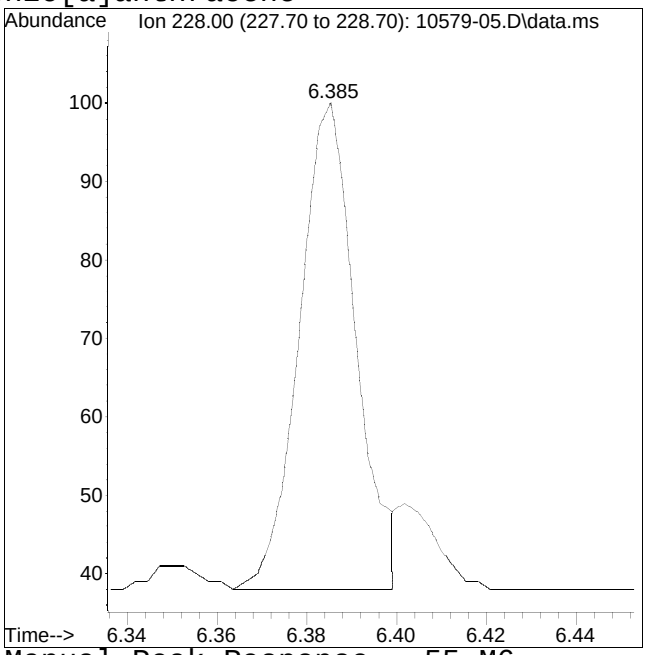
Manual Integration Report

Data Path : I:\8270SIM\SV128\240305\ QMethod : SIM-LVI_231211_sv128.M
Data File : 10579-05.D Operator : SV128:jjw
Date Inj'd : 3/5/2024 11:05 am Instrument : SV128
Sample : L2410579-05,32,,ah Quant Date : 3/5/2024 11:20 am

Compound #32: Benzo[a]anthracene



Original Peak Response = 69



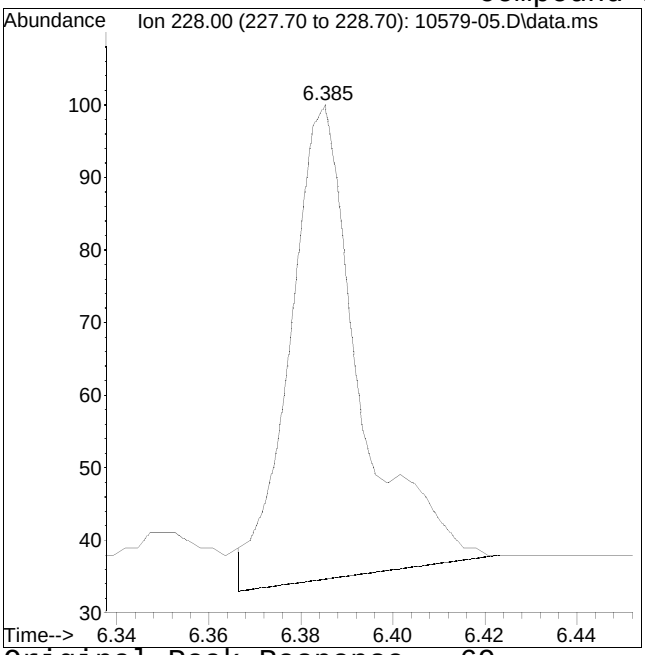
Manual Peak Response = 55 M6

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

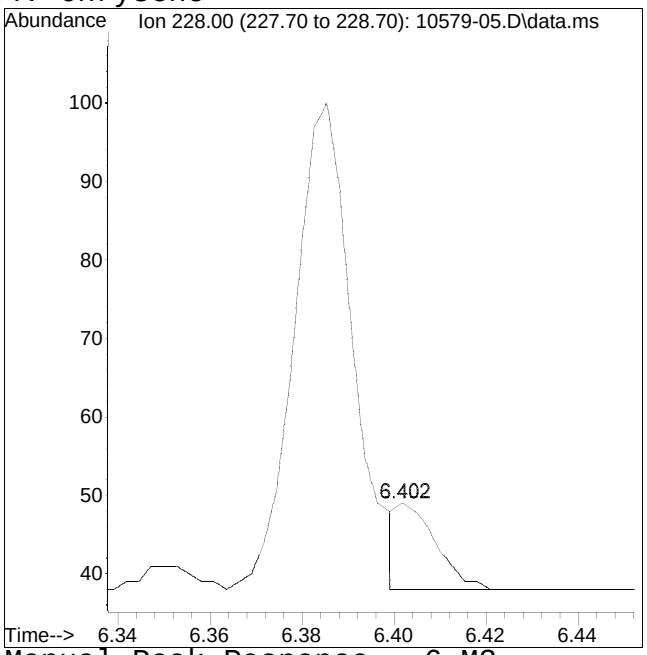
Manual Integration Report

Data Path : I:\8270SIM\SV128\240305\ QMethod : SIM-LVI_231211_sv128.M
Data File : 10579-05.D Operator : SV128:jjw
Date Inj'd : 3/5/2024 11:05 am Instrument : SV128
Sample : L2410579-05,32,,ah Quant Date : 3/5/2024 11:20 am

Compound #34: Chrysene



Original Peak Response = 69



Manual Peak Response = 6 M3

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV128\240305\
Data File : 10579-06.D
Acq On : 05 Mar 2024 11:38 am
Operator : SV128:jjw
Sample : L2410579-06RE,32,,ah
Misc : WG1892213,wg1892049,ical20676
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Mar 05 12:18:18 2024
Quant Method : I:\8270sim\sv128\240305\SIM-LVI_231211_sv128.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Mar 05 07:15:56 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv128\240305\ccv0305a.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.269	152	2668	4000.000	ng/ml	0.00
Standard Area 1 = 1565			Recovery = 170.48%			
8) Naphthalene-d8	2.947	136	10020	4000.000	ng/ml	0.00
Standard Area 1 = 5966			Recovery = 167.95%			
17) Acenaphthene-d10	3.940	164	6388	4000.000	ng/ml	0.00
Standard Area 1 = 4044			Recovery = 157.96%			
22) Phenanthrene-d10	4.796	188	16015	4000.000	ng/ml	0.00
Standard Area 1 = 10610			Recovery = 150.94%			
31) Chrysene-d12	6.385	240	16160	4000.000	ng/ml	-0.01
Standard Area 1 = 12274			Recovery = 131.66%			
36) Perylene-d12	7.688	264	17655	4000.000	ng/ml	-0.02
Standard Area 1 = 14188			Recovery = 124.44%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.659	112	2162	3217.997	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 64.36%			
3) Phenol-d6	2.083	99	2217	2823.570	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 56.47%			
7) Nitrobenzene-d5	2.556	82	1352	2130.694	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 85.23%			
13) 2-Fluorobiphenyl	3.552	172	4190	1971.810	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 78.87%			
21) 2,4,6-Tribromophenol	4.395	330	1606	5031.040	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 100.62%			
30) 4-Terphenyl-d14	5.729	244	7588	2274.237	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 90.97%			
Target Compounds						Qvalue
6) Hexachloroethane	0.000		0	N.D.		
9) Naphthalene	2.956	128	285M6	110.914	ng/ml	
10) Hexachlorobutadiene	0.000		0	N.D.		
11) 2-Methylnaphthalene	3.344	142	14	8.529	ng/ml	95
14) 2-Chloronaphthalene	0.000		0	N.D.	d	
16) Acenaphthylene	0.000		0	N.D.	d	
18) Acenaphthene	0.000		0	N.D.		
20) Fluorene	4.252	166	6M3	2.753	ng/ml	
24) Hexachlorobenzene	0.000		0	N.D.	d	
25) Pentachlorophenol	0.000		0	N.D.	d	

Data Path : I:\8270SIM\SV128\240305\
Data File : 10579-06.D
Acq On : 05 Mar 2024 11:38 am
Operator : SV128:jjw
Sample : L2410579-06RE,32,,ah
Misc : WG1892213,wg1892049,ical20676
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Mar 05 12:18:18 2024
Quant Method : I:\8270sim\sv128\240305\SIM-LVI_231211_sv128.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Mar 05 07:15:56 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv128\240305\ccv0305a.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Phenanthrene	4.808	178	23M6	5.311	ng/ml	
27) Anthracene	4.837	178	9M1	2.151	ng/ml	
28) Fluoranthene	5.502	202	28M4	5.885	ng/ml	
29) Pyrene	5.633	202	26M1	5.282	ng/ml	
32) Benzo[a]anthracene	6.385	228	67M1	5.032	ng/ml	
34) Chrysene	6.405	228	19M3	3.410	ng/ml	
37) Benzo[b]fluoranthene	7.288	252	28M1	5.121	ng/ml	
38) Benzo[k]fluoranthene	7.310	252	11M3	2.162	ng/ml	
39) Benzo[a]pyrene	7.618	252	11M7	2.285	ng/ml	
40) Indeno[1,2,3-cd]pyrene	8.994	276	14M7	2.908	ng/ml	
41) Dibenzo[a,h]anthracene	0.000		0	N.D.	d	
42) Benzo[g,h,i]perylene	0.000		0	N.D.	d	

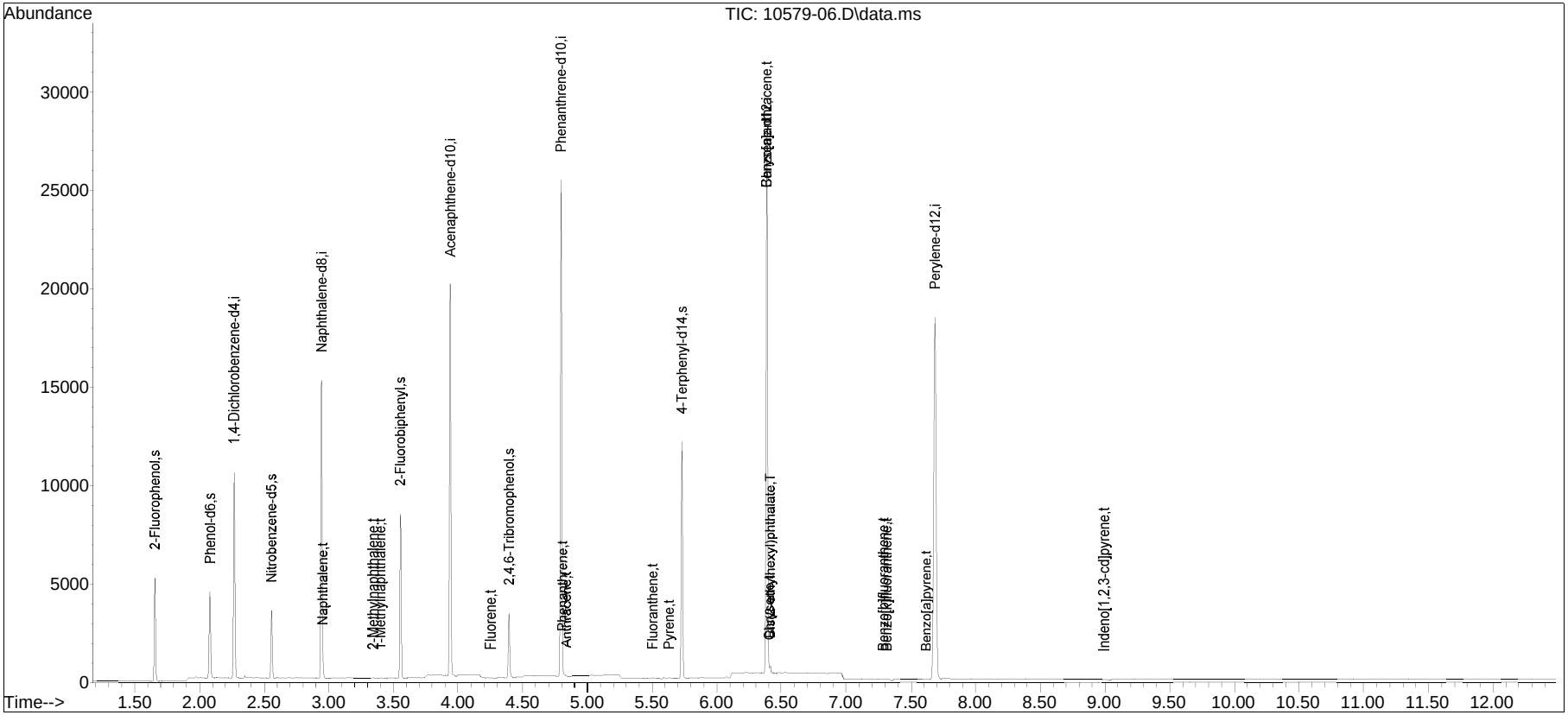
(#) = qualifier out of range (m) = manual integration (+) = signals summed

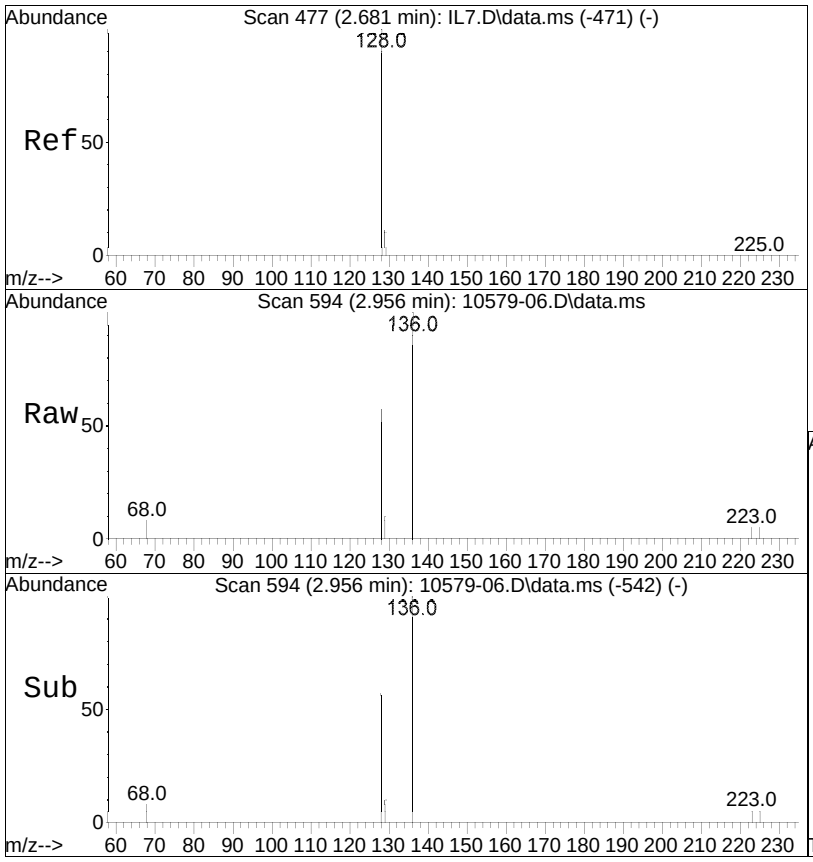
Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV128\240305\
Data File : 10579-06.D
Acq On : 05 Mar 2024 11:38 am
Operator : SV128:jjw
Sample : L2410579-06RE,32,,ah
Misc : WG1892213,wg1892049,ical20676
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Mar 05 12:18:18 2024
Quant Method : I:\8270sim\sv128\240305\SIM-LVI_231211_sv128.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Mar 05 07:15:56 2024
Response via : Initial Calibration

Sub List : DEFAULT - All compounds listedv0305a.D•

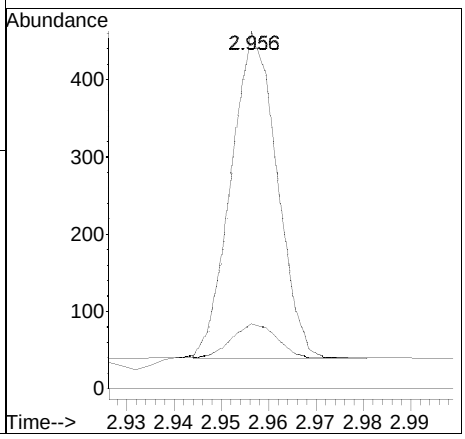


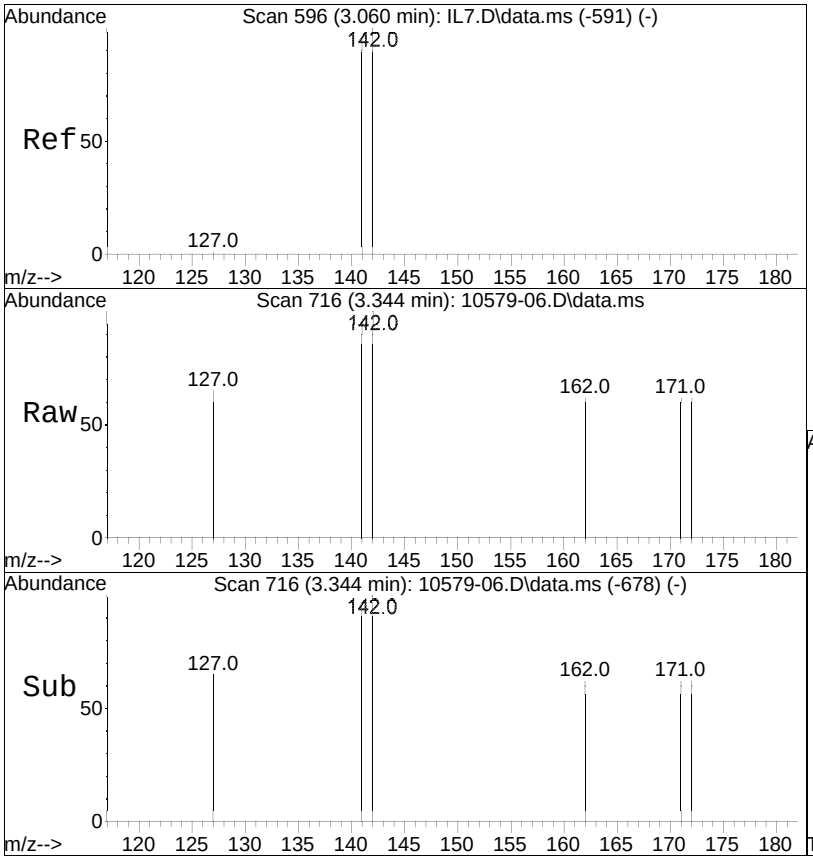


#9
Naphthalene
Concen: 110.91 ng/ml M6
RT: 2.956 min Scan# 594
Delta R.T. -0.000 min
Lab File: 10579-06.D
Acq: 05 Mar 2024 11:38 am

Tgt Ion:128 Resp: 285

Ion	Ratio	Lower	Upper
128	100		
129	11.6	8.8	13.2
127	0.0	0.0	0.0

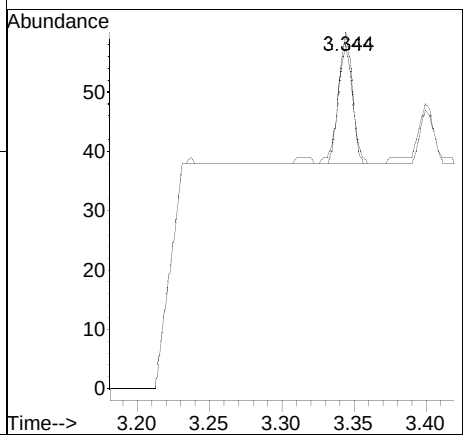


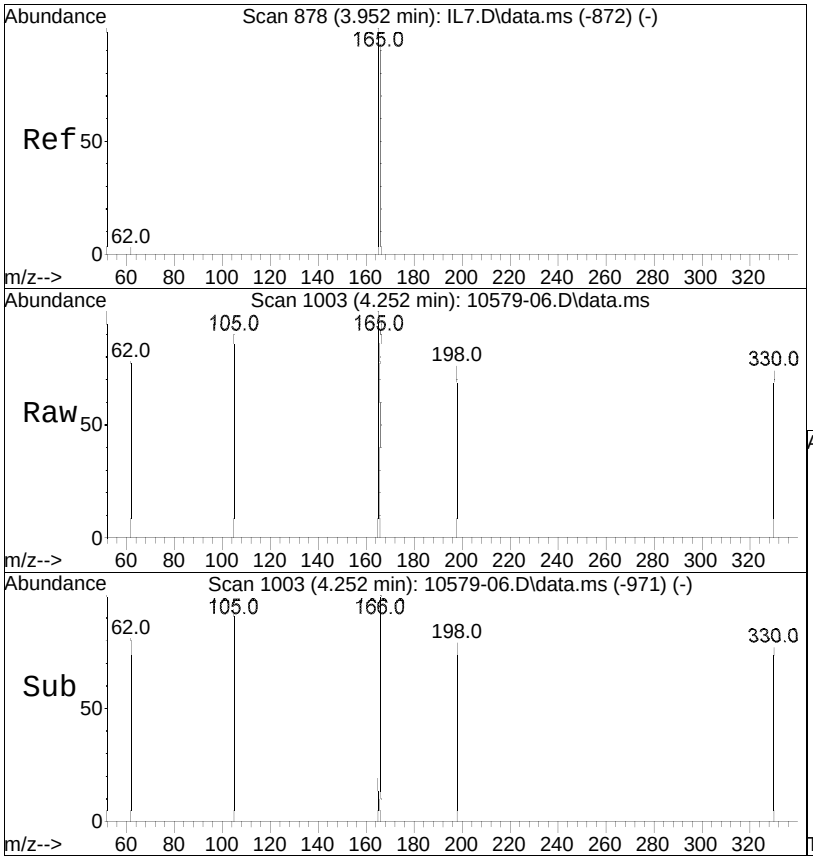


#11
2-Methylnaphthalene
Concen: 8.53 ng/ml
RT: 3.344 min Scan# 716
Delta R.T. -0.000 min
Lab File: 10579-06.D
Acq: 05 Mar 2024 11:38 am

Tgt Ion:142 Resp: 14

Ion	Ratio	Lower	Upper
142	100		
141	100.0	75.9	113.9

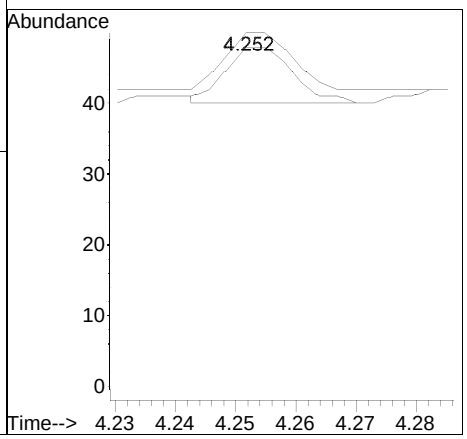


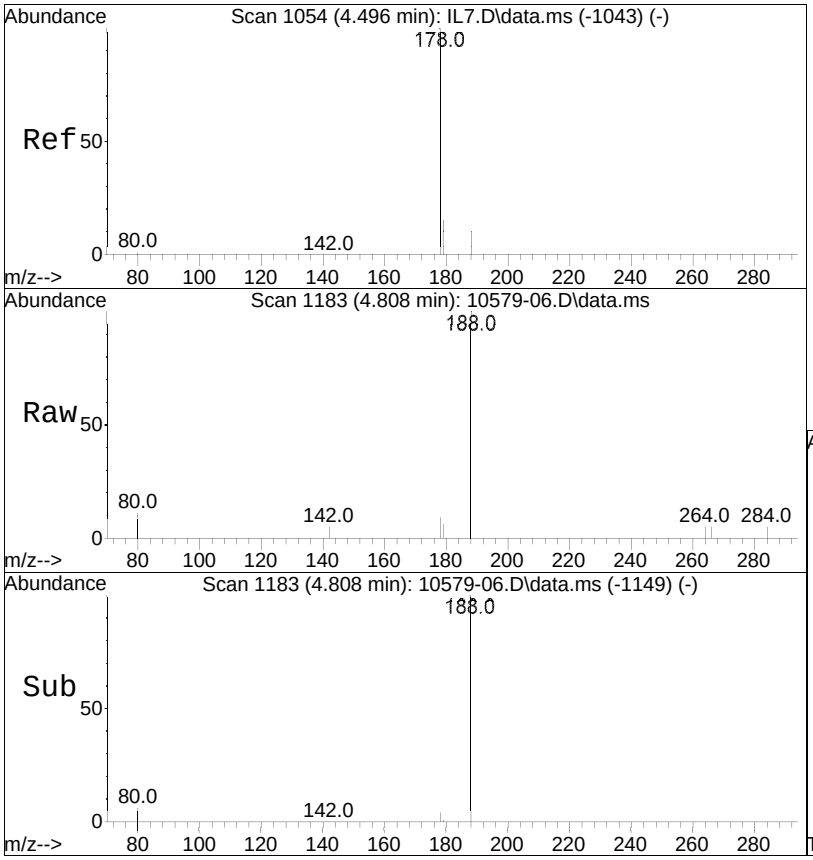


#20
Fluorene
Concen: 2.75 ng/ml M3
RT: 4.252 min Scan# 1003
Delta R.T. -0.006 min
Lab File: 10579-06.D
Acq: 05 Mar 2024 11:38 am

Tgt Ion:166 Resp: 6

Ion	Ratio	Lower	Upper
166	100		
165	100.0	85.7	128.5

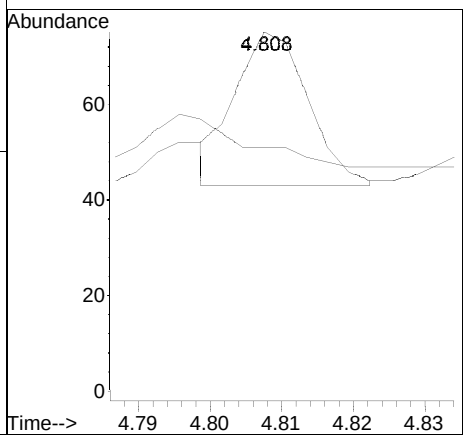


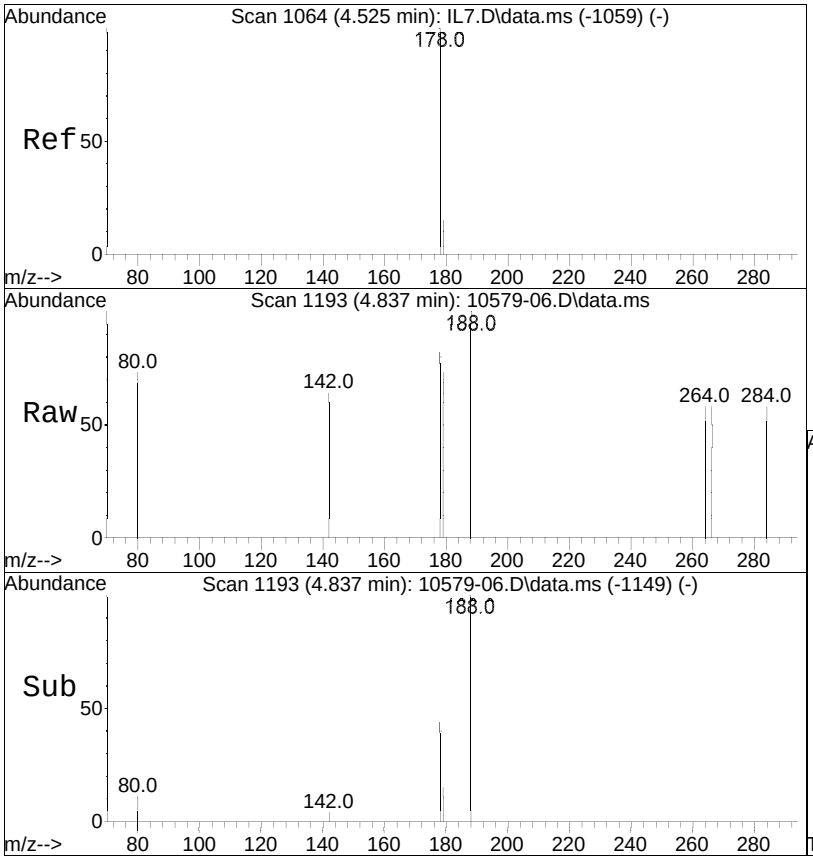


#26
Phenanthrene
Concen: 5.31 ng/ml M6
RT: 4.808 min Scan# 1183
Delta R.T. -0.006 min
Lab File: 10579-06.D
Acq: 05 Mar 2024 11:38 am

Tgt Ion:178 Resp: 23

Ion	Ratio	Lower	Upper
178	100		
179	17.4	12.2	18.4

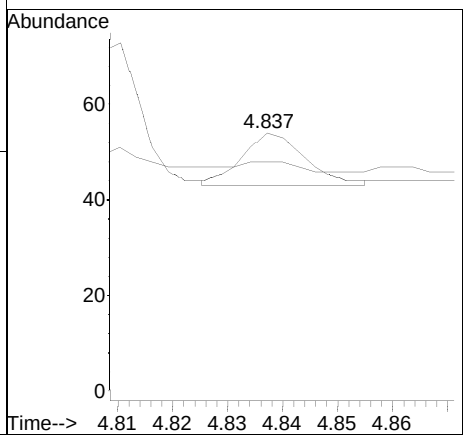


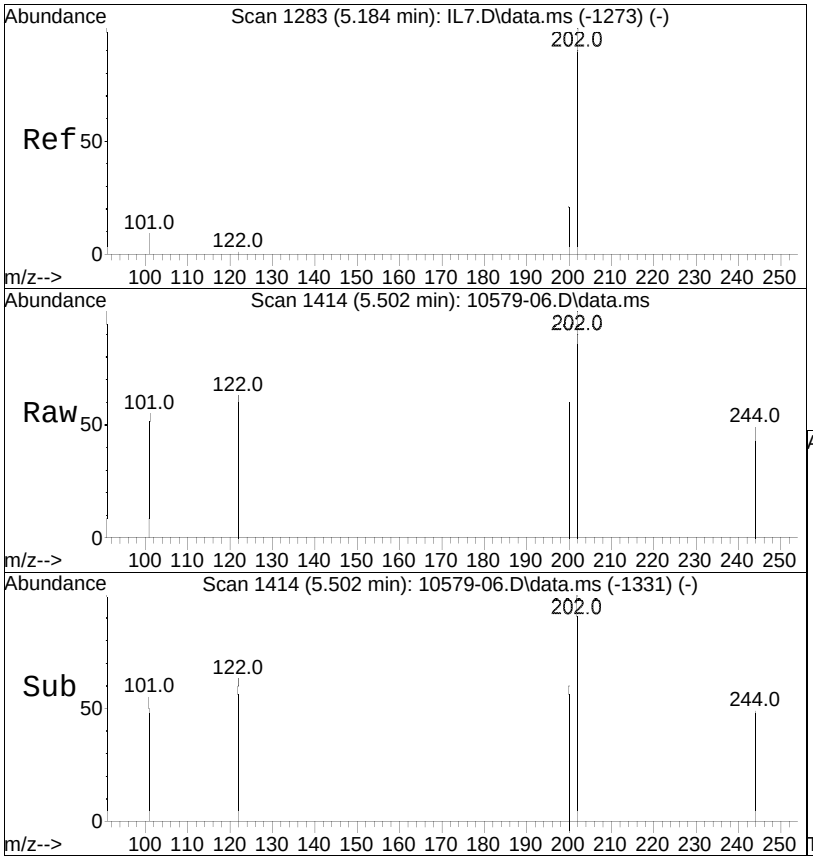


#27
Anthracene
Concen: 2.15 ng/ml M1
RT: 4.837 min Scan# 1193
Delta R.T. -0.006 min
Lab File: 10579-06.D
Acq: 05 Mar 2024 11:38 am

Tgt Ion:178 Resp: 9

Ion	Ratio	Lower	Upper
178	100		
179	22.2	12.2	18.2#

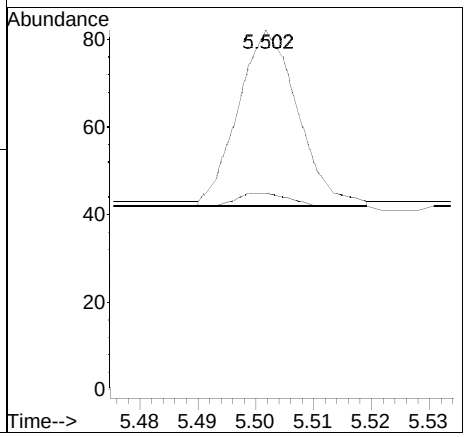


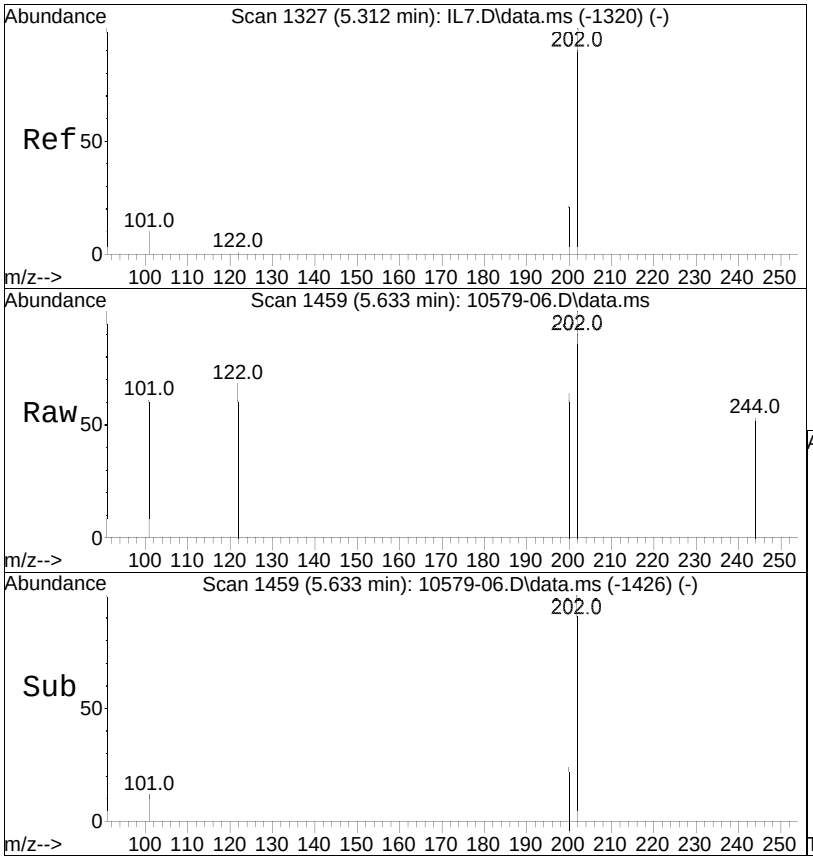


#28
Fluoranthene
Concen: 5.88 ng/ml M4
RT: 5.502 min Scan# 1414
Delta R.T. -0.009 min
Lab File: 10579-06.D
Acq: 05 Mar 2024 11:38 am

Tgt Ion:202 Resp: 28

Ion	Ratio	Lower	Upper
202	100		
101	10.7	7.2	10.8

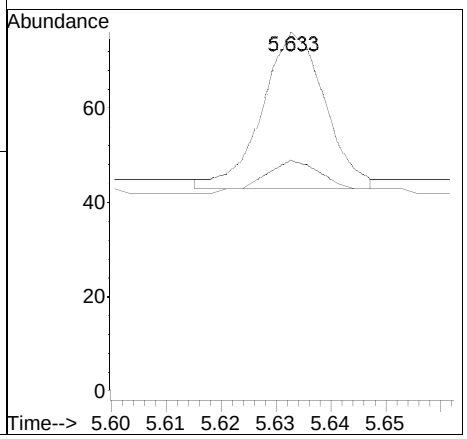


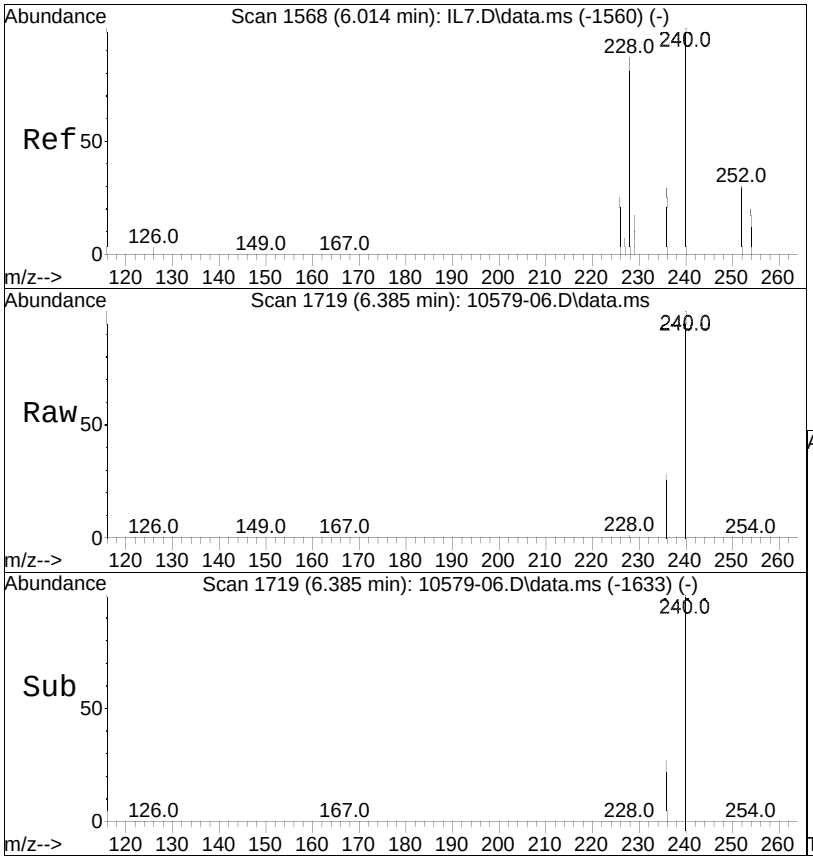


#29
Pyrene
Concen: 5.28 ng/ml M1
RT: 5.633 min Scan# 1459
Delta R.T. -0.009 min
Lab File: 10579-06.D
Acq: 05 Mar 2024 11:38 am

Tgt Ion:202 Resp: 26

Ion	Ratio	Lower	Upper
202	100		
200	23.1	17.7	26.5

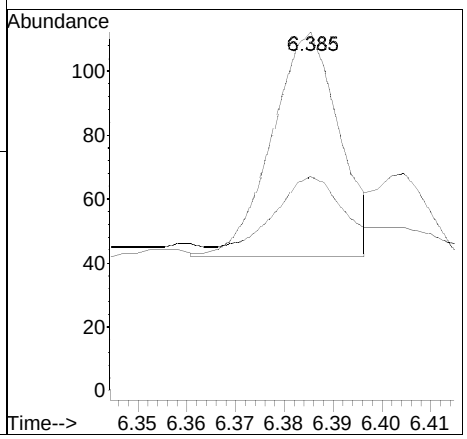


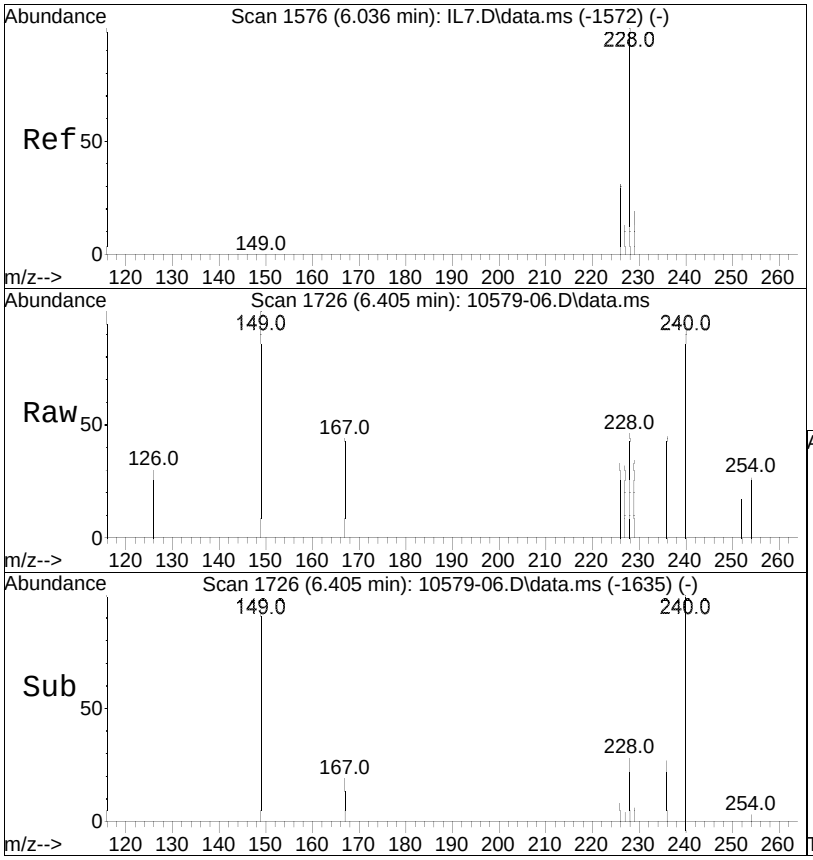


#32
Benzo[a]anthracene
Concen: 5.03 ng/ml M1
RT: 6.385 min Scan# 1719
Delta R.T. -0.003 min
Lab File: 10579-06.D
Acq: 05 Mar 2024 11:38 am

Tgt Ion:228 Resp: 67

Ion	Ratio	Lower	Upper
228	100		
229	32.8	15.7	23.5#

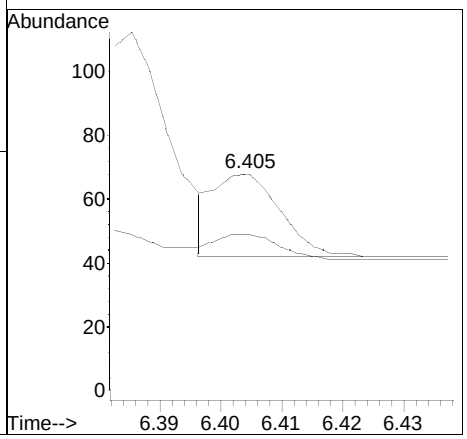


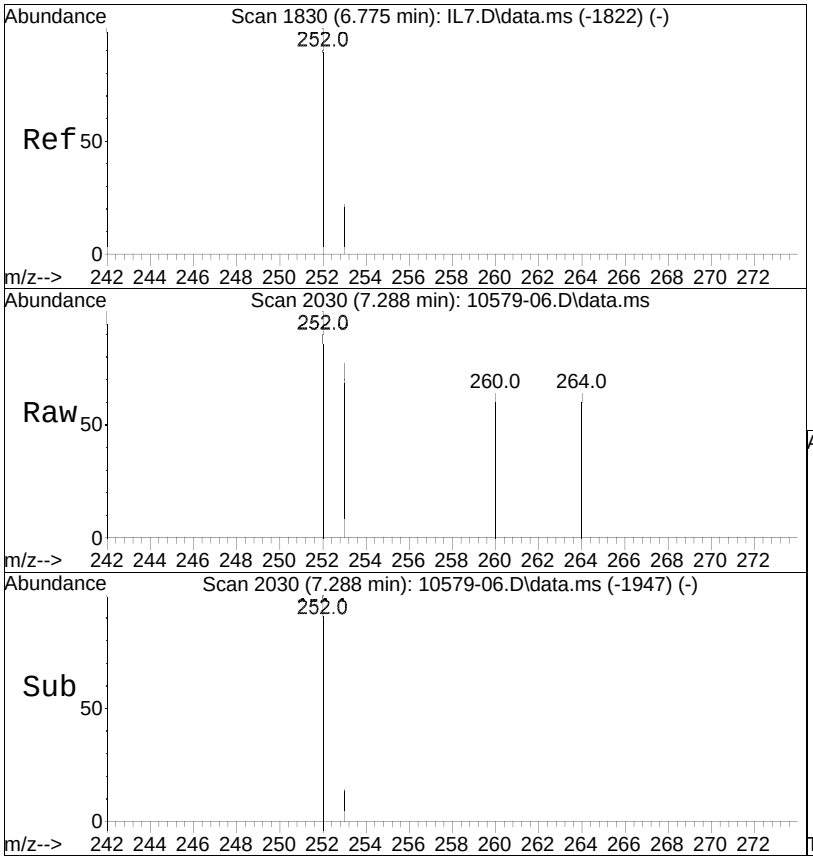


#34
Chrysene
Concen: 3.41 ng/ml M3
RT: 6.405 min Scan# 1726
Delta R.T. -0.011 min
Lab File: 10579-06.D
Acq: 05 Mar 2024 11:38 am

Tgt Ion:228 Resp: 19

Ion	Ratio	Lower	Upper
228	100		
226	36.8	24.6	36.8#

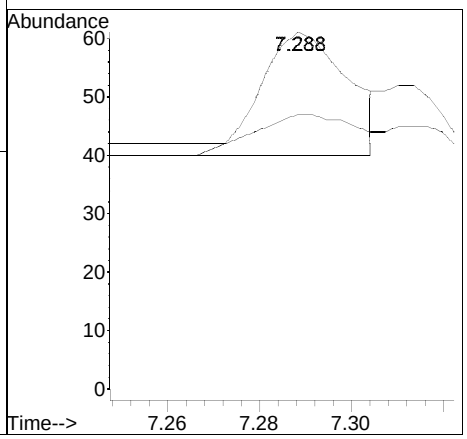


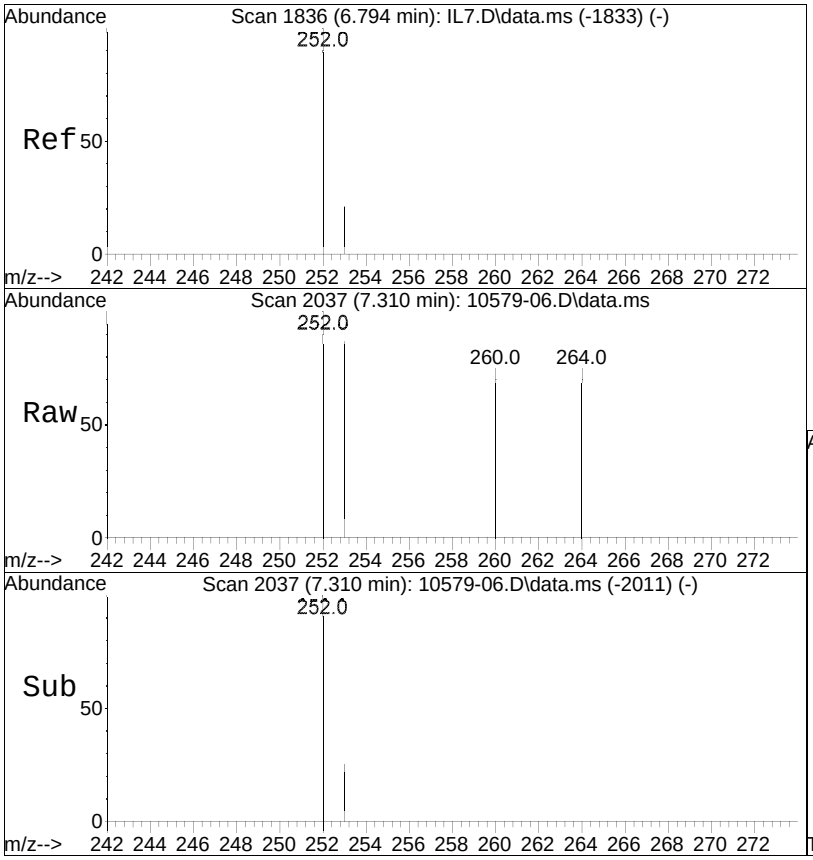


#37
Benzo[b]fluoranthene
Concen: 5.12 ng/ml M1
RT: 7.288 min Scan# 2030
Delta R.T. -0.016 min
Lab File: 10579-06.D
Acq: 05 Mar 2024 11:38 am

Tgt Ion:252 Resp: 28

Ion	Ratio	Lower	Upper
252	100		
253	21.4	17.1	25.7

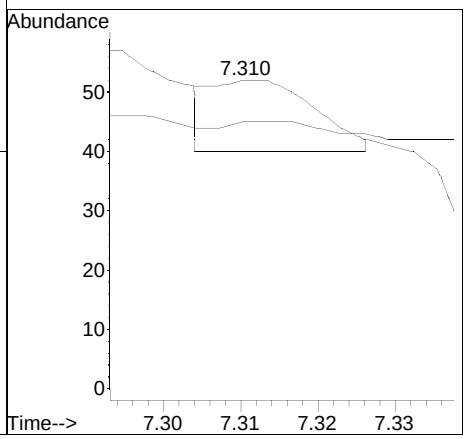


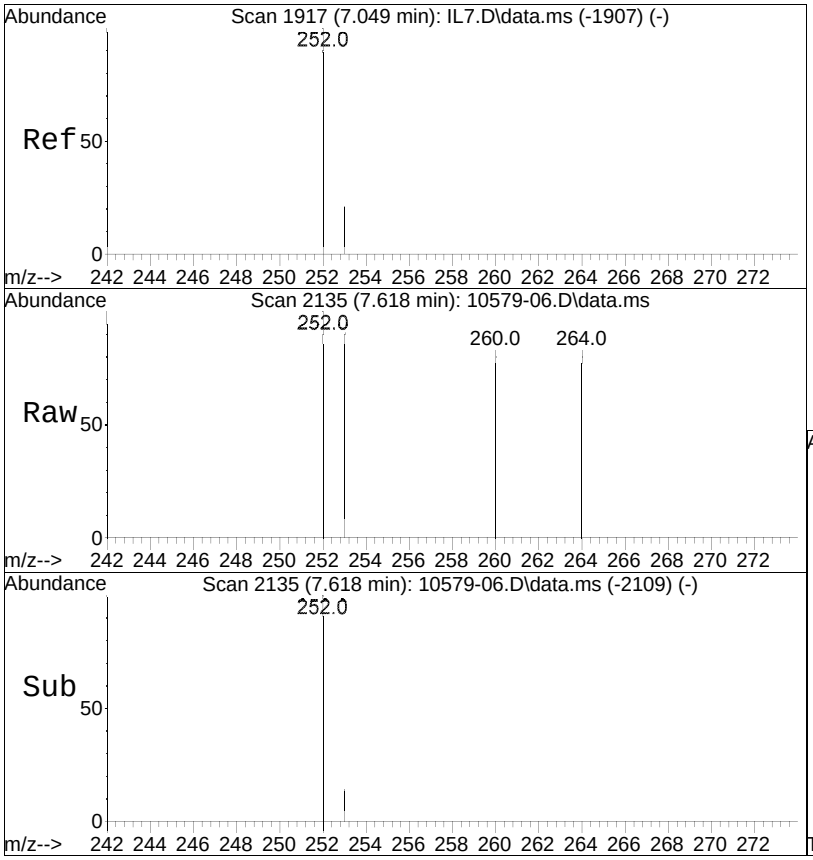


#38
Benzo[k]fluoranthene
Concen: 2.16 ng/ml M3
RT: 7.310 min Scan# 2037
Delta R.T. -0.019 min
Lab File: 10579-06.D
Acq: 05 Mar 2024 11:38 am

Tgt Ion:252 Resp: 11

Ion	Ratio	Lower	Upper
252	100		
253	27.3	17.3	25.9#

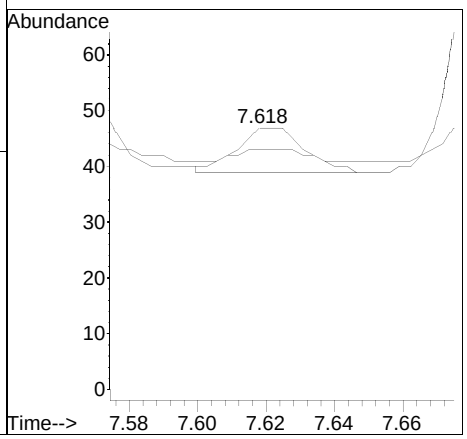


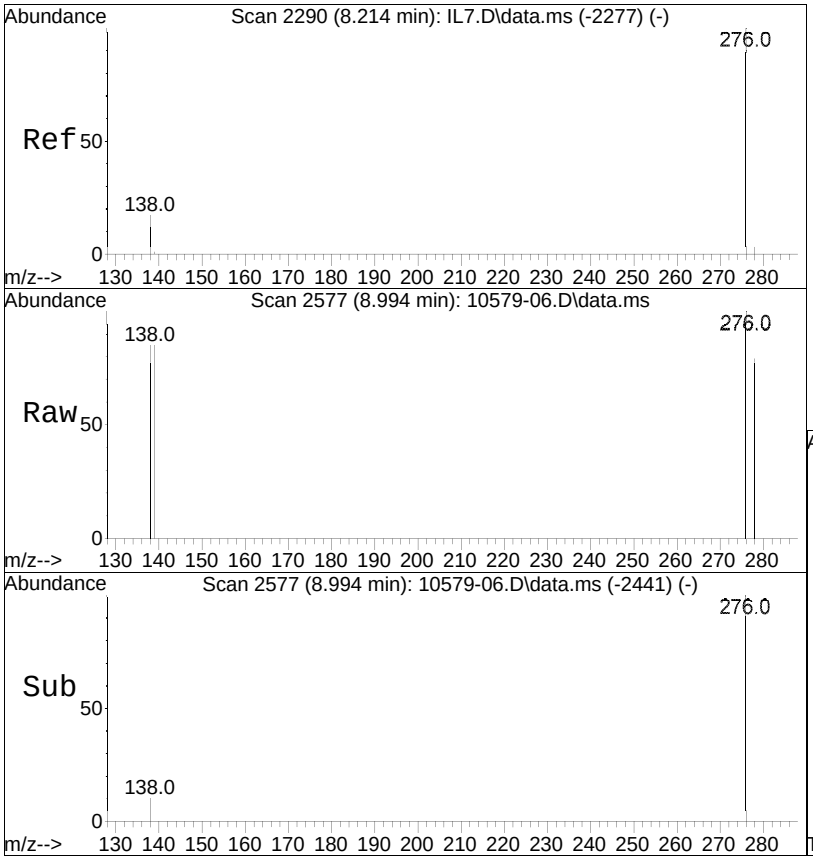


#39
Benzo[a]pyrene
Concen: 2.28 ng/ml M7
RT: 7.618 min Scan# 2135
Delta R.T. -0.019 min
Lab File: 10579-06.D
Acq: 05 Mar 2024 11:38 am

Tgt Ion:252 Resp: 11

Ion	Ratio	Lower	Upper
252	100		
253	27.3	17.3	25.9#

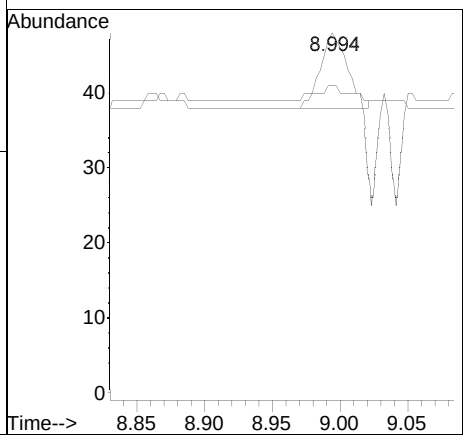




#40
Indeno[1,2,3-cd]pyrene
Concen: 2.91 ng/ml M7
RT: 8.994 min Scan# 2577
Delta R.T. -0.027 min
Lab File: 10579-06.D
Acq: 05 Mar 2024 11:38 am

Tgt Ion:276 Resp: 14

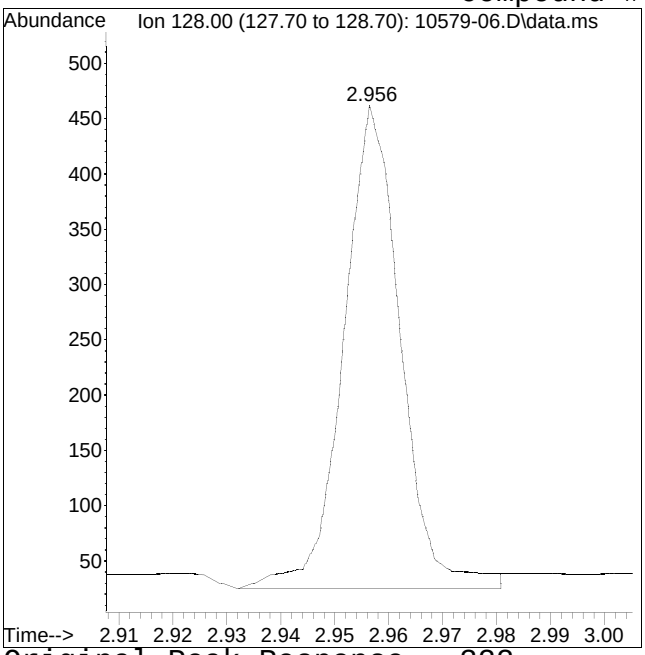
Ion	Ratio	Lower	Upper
276	100		
138	14.3	13.4	20.2



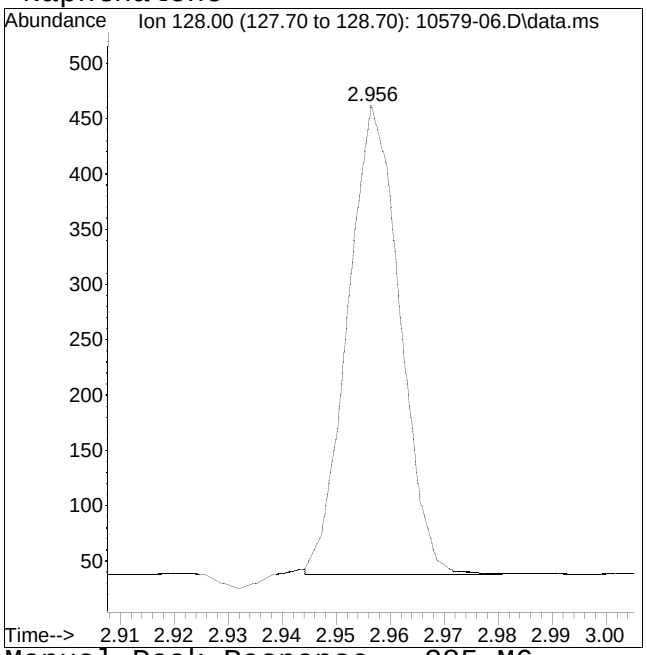
Manual Integration Report

Data Path	: I:\8270SIM\SV128\240305\	QMethod	: SIM-LVI_231211_sv128.M
Data File	: 10579-06.D	Operator	: SV128:jjw
Date Inj'd	: 3/5/2024 11:38 am	Instrument	: SV128
Sample	: L2410579-06RE,32,,ah	Quant Date	: 3/5/2024 11:53 am

Compound #9: Naphthalene



Original Peak Response = 322



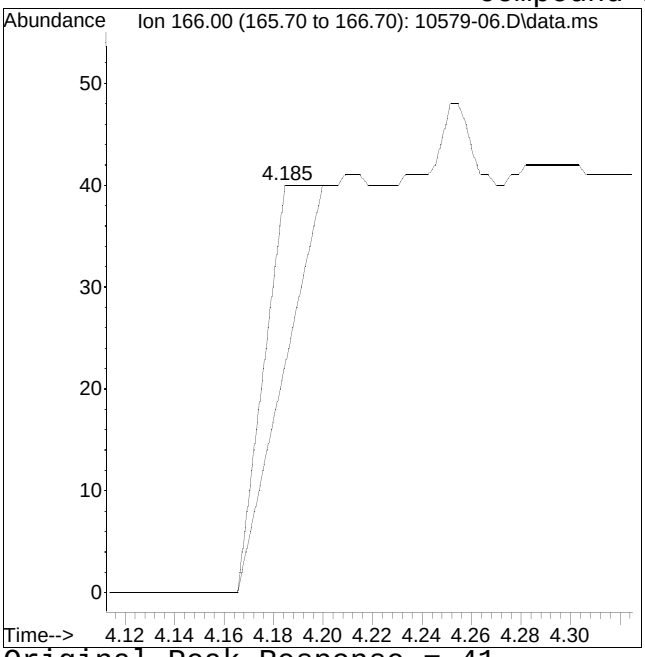
Manual Peak Response = 285 M6

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

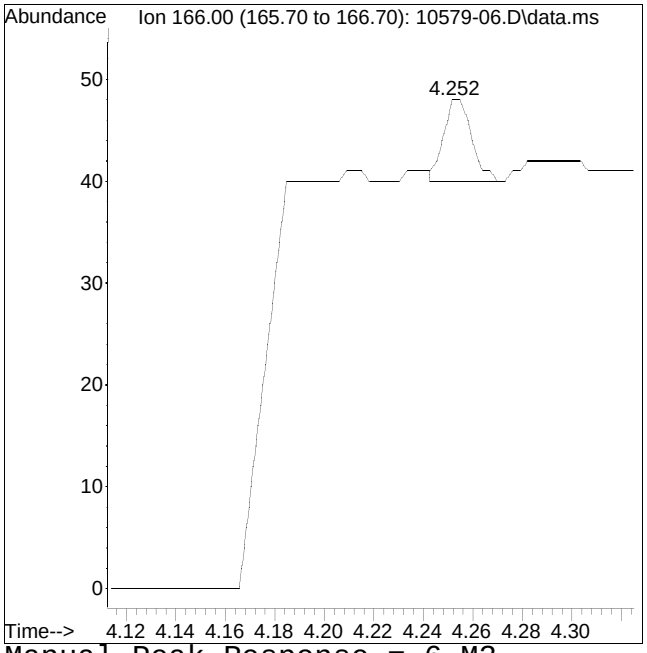
Manual Integration Report

Data Path : I:\8270SIM\SV128\240305\ QMethod : SIM-LVI_231211_sv128.M
Data File : 10579-06.D Operator : SV128:jjw
Date Inj'd : 3/5/2024 11:38 am Instrument : SV128
Sample : L2410579-06RE,32,,ah Quant Date : 3/5/2024 11:53 am

Compound #20: Fluorene



Original Peak Response = 41



Manual Peak Response = 6 M3

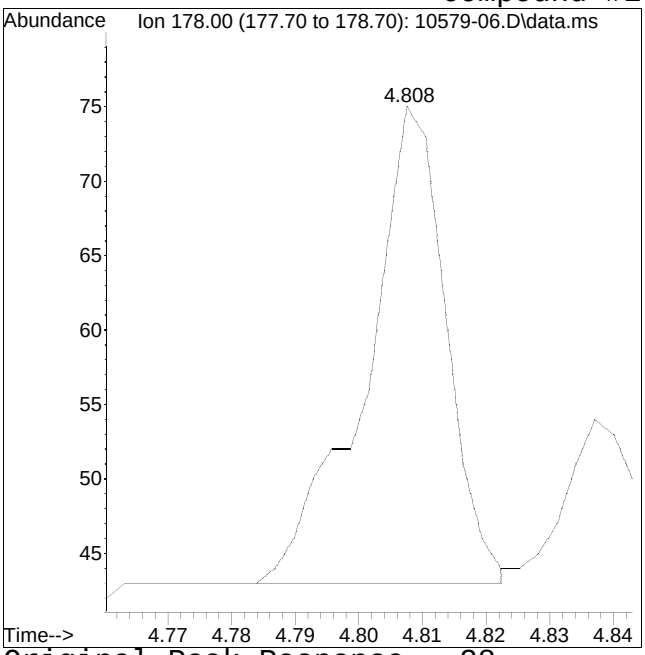
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

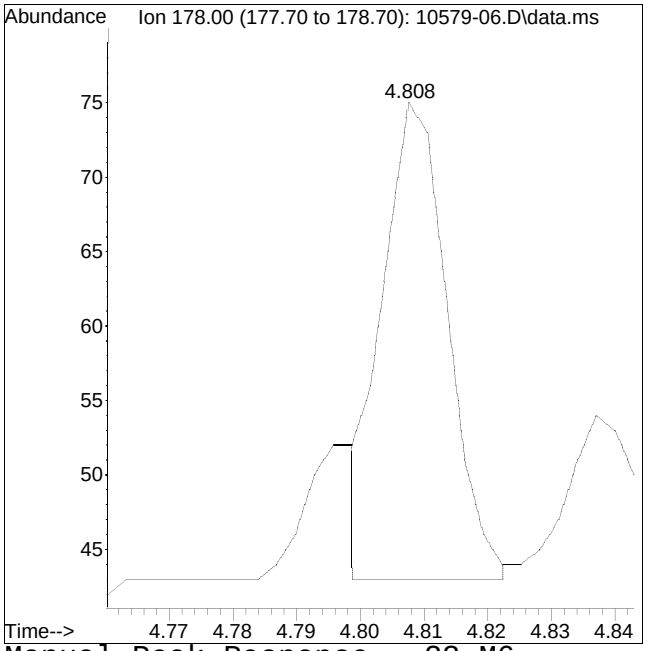
Data Path : I:\8270SIM\SV128\240305\
Data File : 10579-06.D
Date Inj'd : 3/5/2024 11:38 am
Sample : L2410579-06RE,32,,ah

QMethod : SIM-LVI_231211_sv128.M
Operator : SV128:jjw
Instrument : SV128
Quant Date : 3/5/2024 11:53 am

Compound #26: Phenanthrene



Original Peak Response = 28



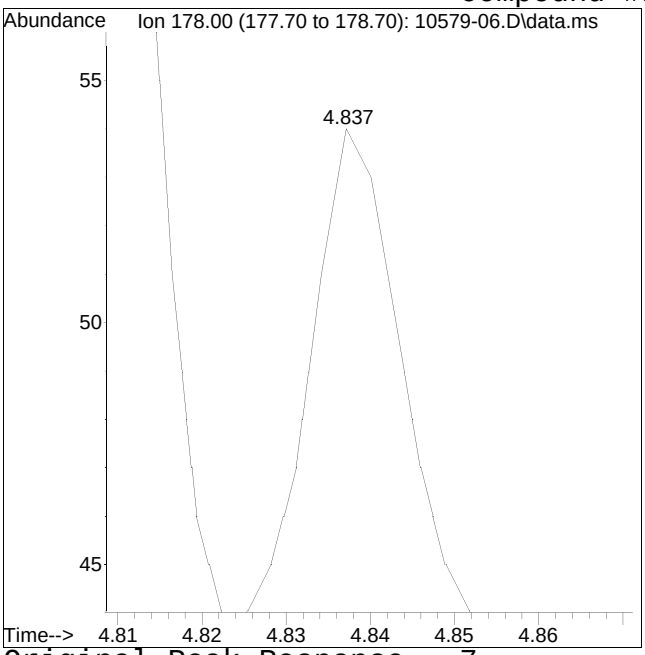
Manual Peak Response = 23 M6

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

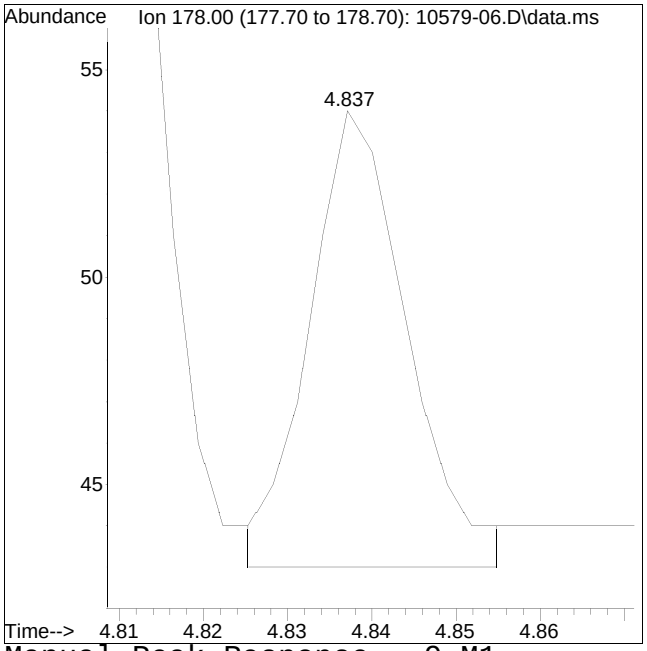
Manual Integration Report

Data Path : I:\8270SIM\SV128\240305\ QMethod : SIM-LVI_231211_sv128.M
Data File : 10579-06.D Operator : SV128:jjw
Date Inj'd : 3/5/2024 11:38 am Instrument : SV128
Sample : L2410579-06RE,32,,ah Quant Date : 3/5/2024 11:53 am

Compound #27: Anthracene



Original Peak Response = 7



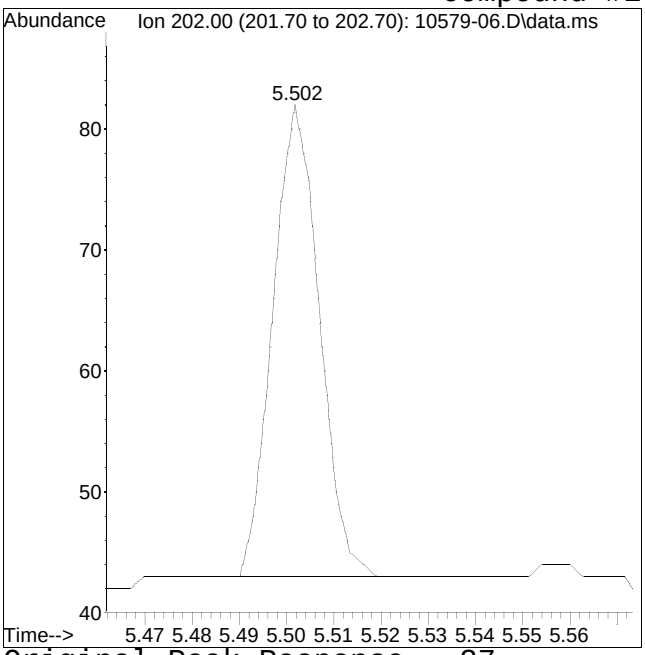
Manual Peak Response = 9 M1

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

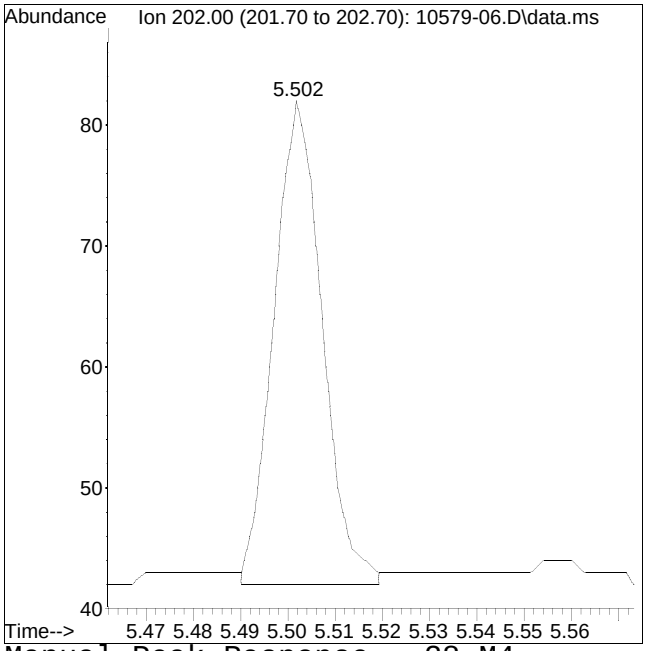
Manual Integration Report

Data Path : I:\8270SIM\SV128\240305\ QMethod : SIM-LVI_231211_sv128.M
Data File : 10579-06.D Operator : SV128:jjw
Date Inj'd : 3/5/2024 11:38 am Instrument : SV128
Sample : L2410579-06RE,32,,ah Quant Date : 3/5/2024 11:53 am

Compound #28: Fluoranthene



Original Peak Response = 27



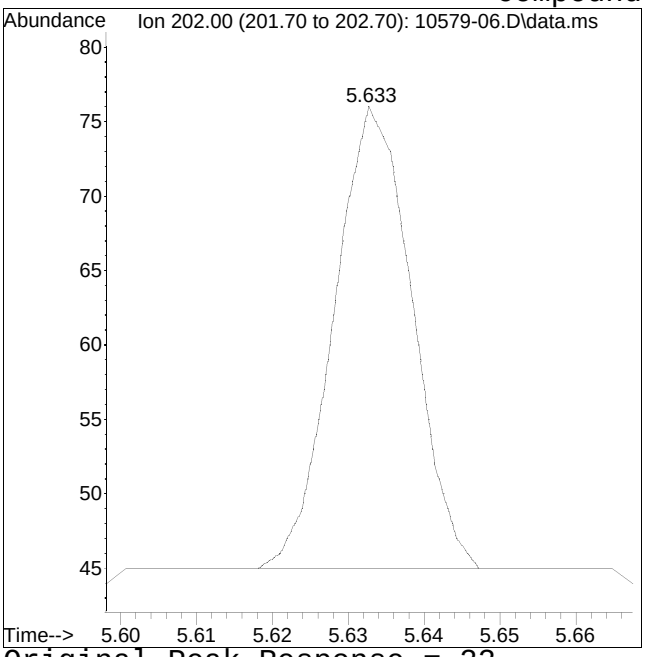
Manual Peak Response = 28 M4

M4 = Poor automated baseline construction.

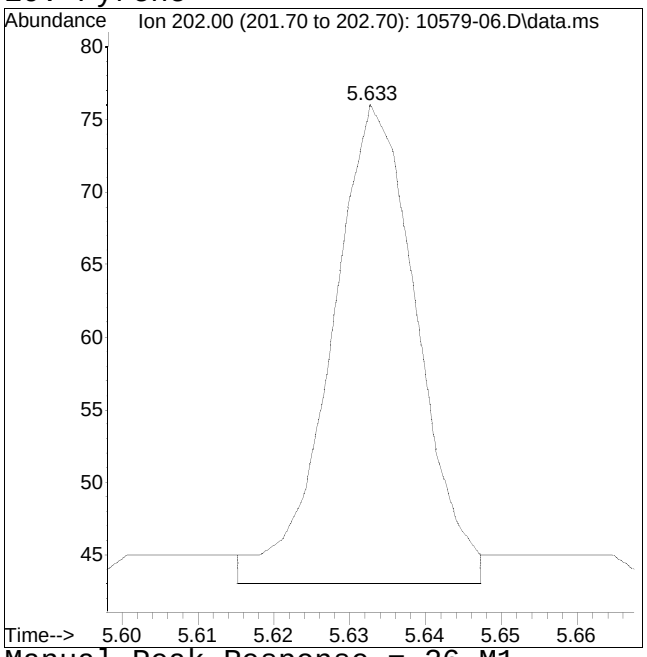
Manual Integration Report

Data Path : I:\8270SIM\SV128\240305\ QMethod : SIM-LVI_231211_sv128.M
Data File : 10579-06.D Operator : SV128:jjw
Date Inj'd : 3/5/2024 11:38 am Instrument : SV128
Sample : L2410579-06RE,32,,ah Quant Date : 3/5/2024 11:53 am

Compound #29: Pyrene



Original Peak Response = 22



Manual Peak Response = 26 M1

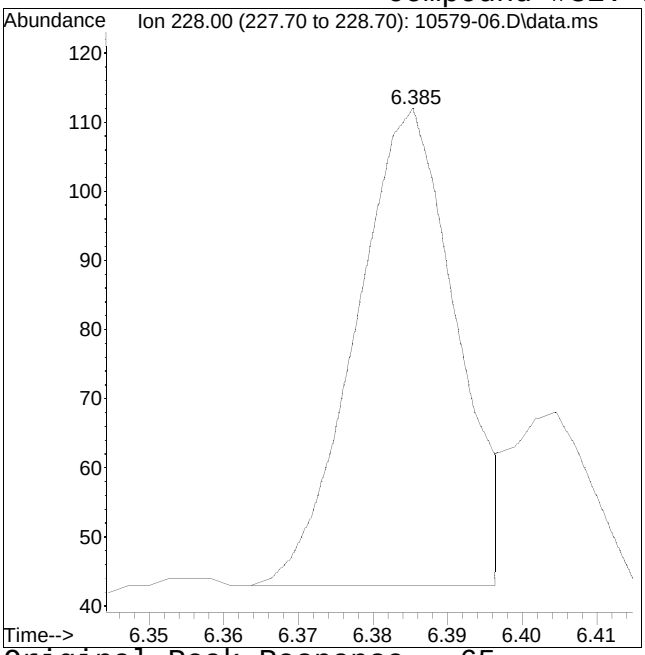
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

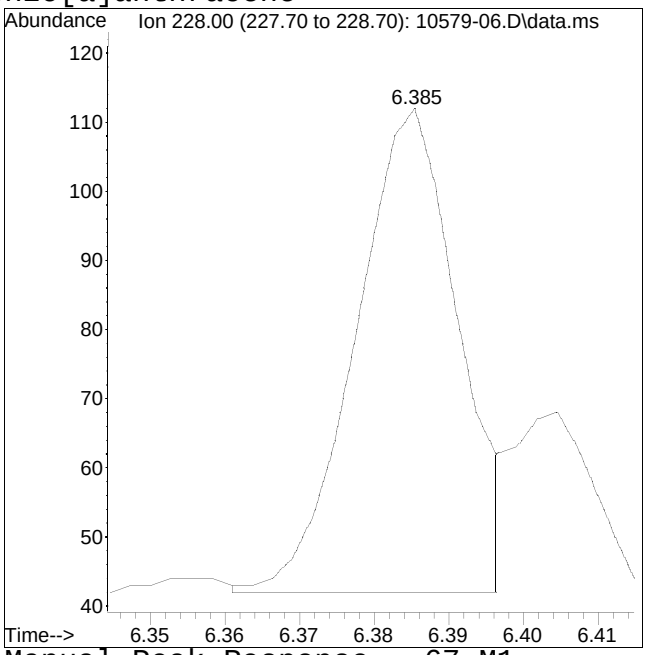
Data Path : I:\8270SIM\SV128\240305\
Data File : 10579-06.D
Date Inj'd : 3/5/2024 11:38 am
Sample : L2410579-06RE,32,,ah

QMethod : SIM-LVI_231211_sv128.M
Operator : SV128:jjw
Instrument : SV128
Quant Date : 3/5/2024 11:53 am

Compound #32: Benzo[a]anthracene



Original Peak Response = 65



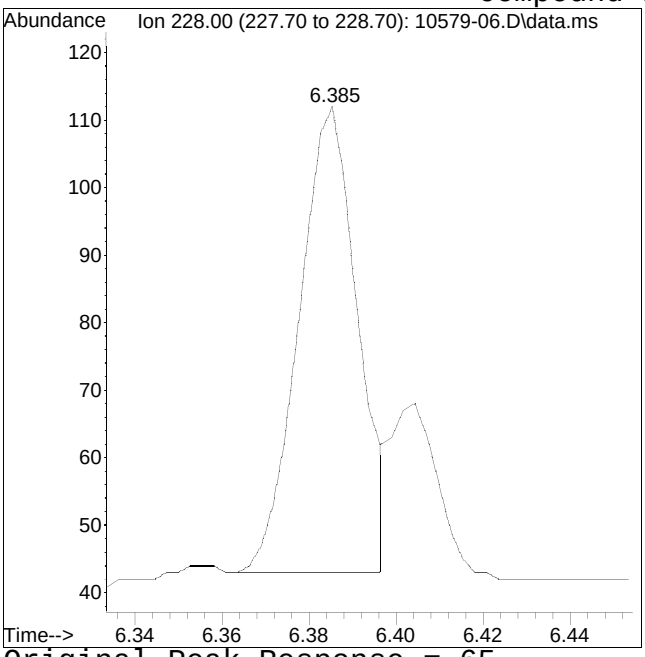
Manual Peak Response = 67 M1

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

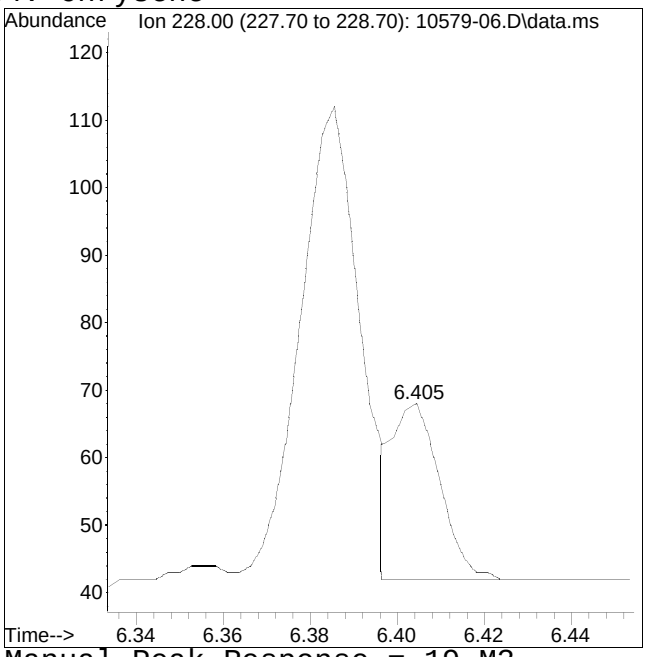
Manual Integration Report

Data Path : I:\8270SIM\SV128\240305\ QMethod : SIM-LVI_231211_sv128.M
Data File : 10579-06.D Operator : SV128:jjw
Date Inj'd : 3/5/2024 11:38 am Instrument : SV128
Sample : L2410579-06RE,32,,ah Quant Date : 3/5/2024 11:53 am

Compound #34: Chrysene



Original Peak Response = 65



Manual Peak Response = 19 M3

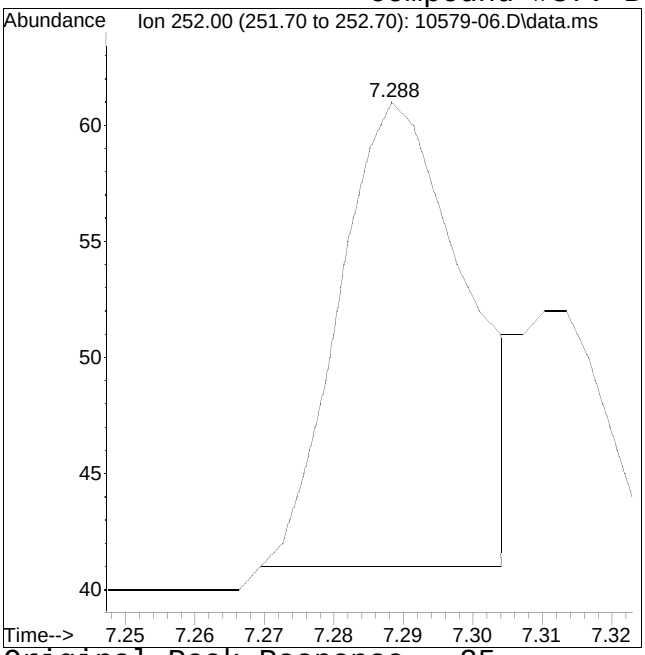
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

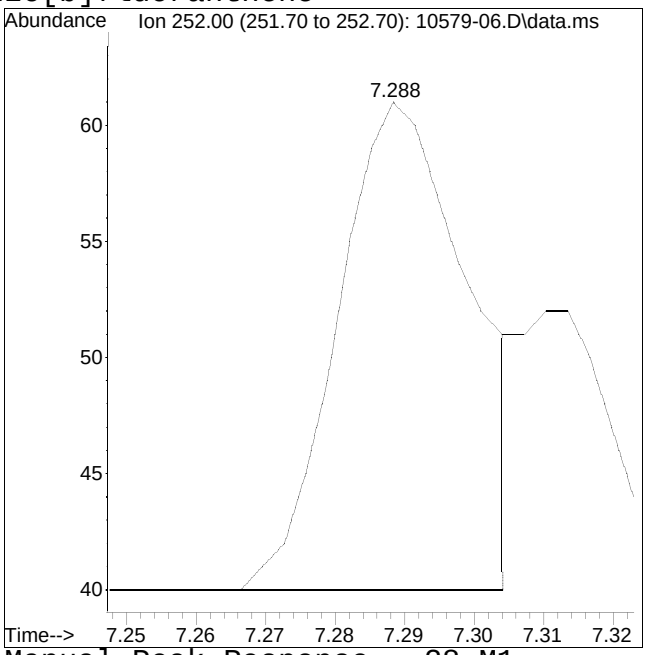
Data Path : I:\8270SIM\SV128\240305\
Data File : 10579-06.D
Date Inj'd : 3/5/2024 11:38 am
Sample : L2410579-06RE,32,,ah

QMethod : SIM-LVI_231211_sv128.M
Operator : SV128:jjw
Instrument : SV128
Quant Date : 3/5/2024 11:53 am

Compound #37: Benzo[b]fluoranthene



Original Peak Response = 25



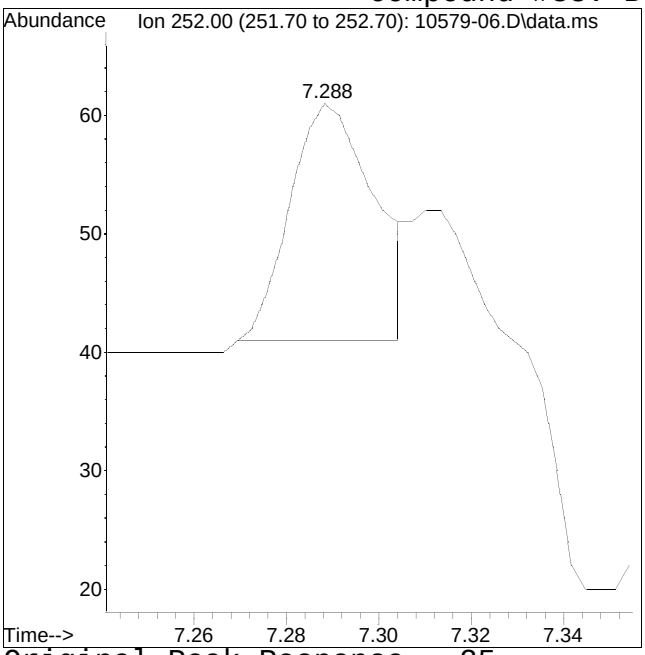
Manual Peak Response = 28 M1

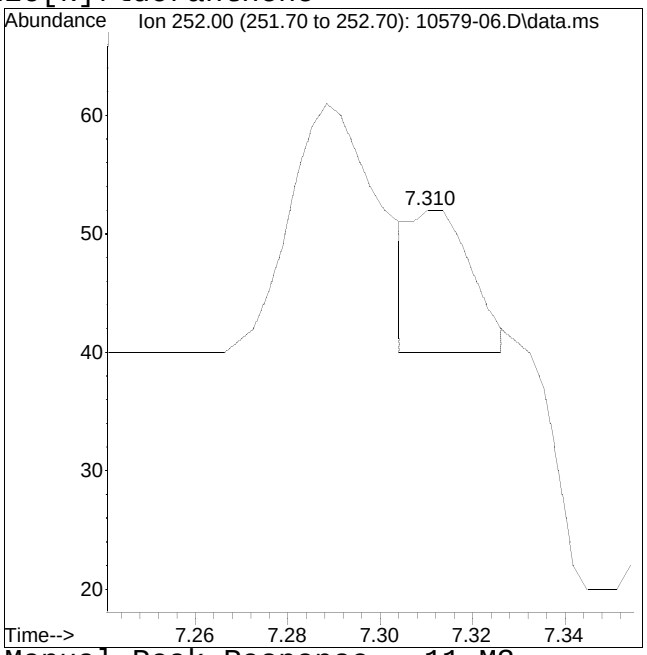
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

Data Path : I:\8270SIM\SV128\240305\ QMethod : SIM-LVI_231211_sv128.M
Data File : 10579-06.D Operator : SV128:jjw
Date Inj'd : 3/5/2024 11:38 am Instrument : SV128
Sample : L2410579-06RE,32,,ah Quant Date : 3/5/2024 11:53 am

Compound #38: Benzo[k]fluoranthene





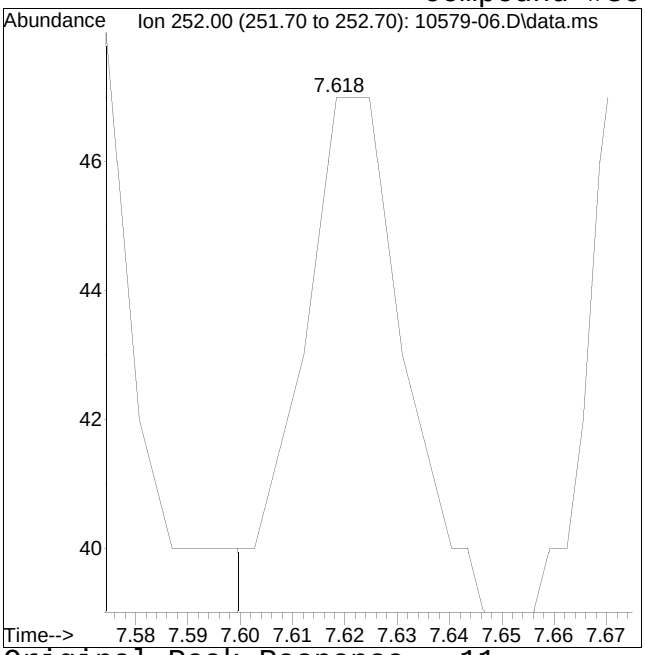
Original Peak Response = 25 Manual Peak Response = 11 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

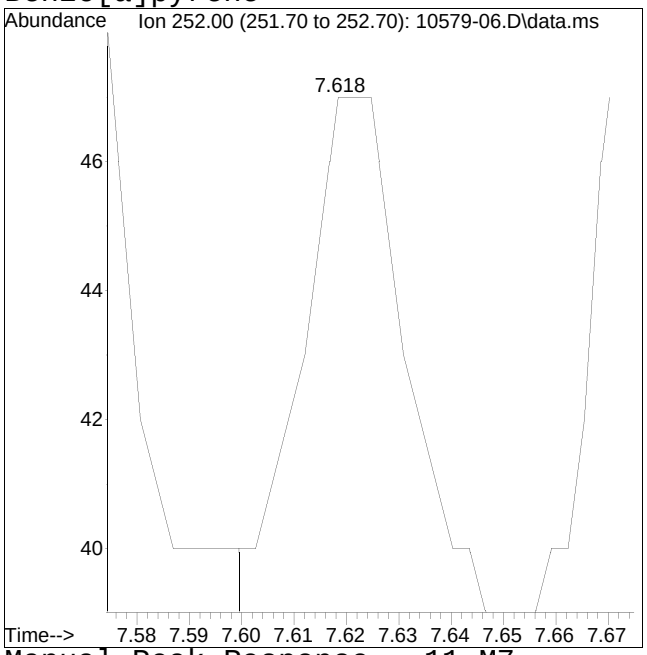
Data Path : I:\8270SIM\SV128\240305\
Data File : 10579-06.D
Date Inj'd : 3/5/2024 11:38 am
Sample : L2410579-06RE,32,,ah

QMethod : SIM-LVI_231211_sv128.M
Operator : SV128:jjw
Instrument : SV128
Quant Date : 3/5/2024 11:53 am

Compound #39: Benzo[a]pyrene



Original Peak Response = 11



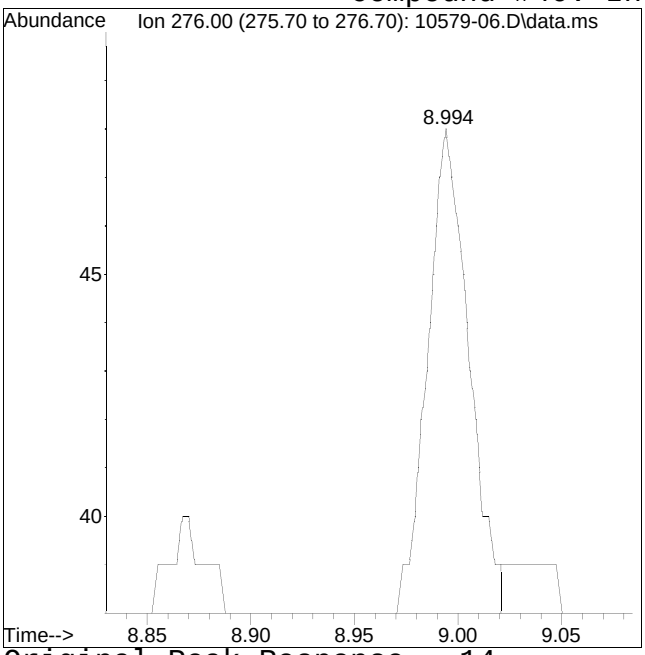
Manual Peak Response = 11 M7

M7 = A qualifier ion was manually integrated (only for GC/MS data).

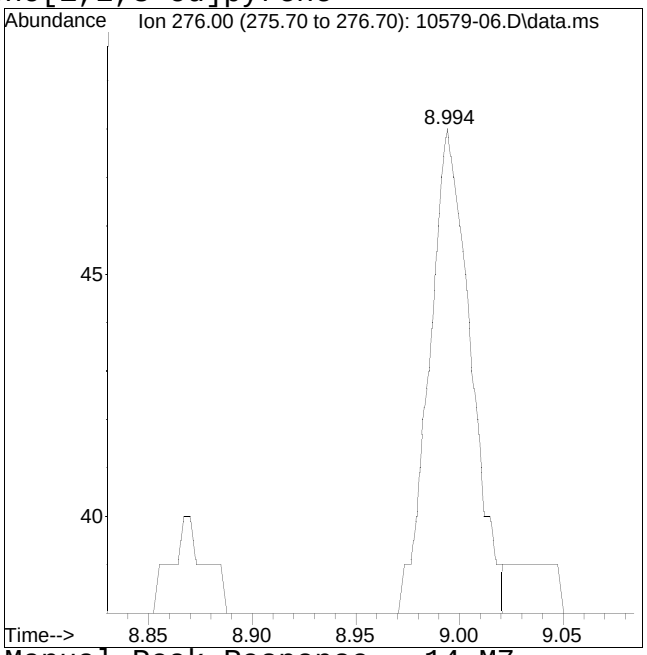
Manual Integration Report

Data Path : I:\8270SIM\SV128\240305\ QMethod : SIM-LVI_231211_sv128.M
Data File : 10579-06.D Operator : SV128:jjw
Date Inj'd : 3/5/2024 11:38 am Instrument : SV128
Sample : L2410579-06RE,32,,ah Quant Date : 3/5/2024 11:53 am

Compound #40: Indeno[1,2,3-cd]pyrene



Original Peak Response = 14



Manual Peak Response = 14 M7

M7 = A qualifier ion was manually integrated (only for GC/MS data).

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV128\240305\
Data File : 10579-08.D
Acq On : 05 Mar 2024 11:54 am
Operator : SV128:jjw
Sample : L2410579-08,32,,ah
Misc : WG1892213,wg1892049,ical20676
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Mar 05 12:20:59 2024
Quant Method : I:\8270sim\sv128\240305\SIM-LVI_231211_sv128.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Mar 05 07:15:56 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv128\240305\ccv0305a.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.269	152	2704	4000.000	ng/ml	0.00
Standard Area 1 = 1565			Recovery = 172.78%			
8) Naphthalene-d8	2.945	136	10046	4000.000	ng/ml	0.00
Standard Area 1 = 5966			Recovery = 168.39%			
17) Acenaphthene-d10	3.937	164	6289	4000.000	ng/ml	0.00
Standard Area 1 = 4044			Recovery = 155.51%			
22) Phenanthrene-d10	4.796	188	15595	4000.000	ng/ml	0.00
Standard Area 1 = 10610			Recovery = 146.98%			
31) Chrysene-d12	6.389	240	16223	4000.000	ng/ml	0.00
Standard Area 1 = 12274			Recovery = 132.17%			
36) Perylene-d12	7.687	264	18009	4000.000	ng/ml	-0.02
Standard Area 1 = 14188			Recovery = 126.93%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.659	112	1922	2822.685	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 56.45%			
3) Phenol-d6	2.083	99	2001	2514.543	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 50.29%			
7) Nitrobenzene-d5	2.557	82	1294	2012.138	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 80.49%			
13) 2-Fluorobiphenyl	3.552	172	3969	1862.974	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 74.52%			
21) 2,4,6-Tribromophenol	4.395	330	1480	4709.310	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 94.19%			
30) 4-Terphenyl-d14	5.729	244	6857	2110.494	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 84.42%			
Target Compounds						Qvalue
6) Hexachloroethane	0.000		0	N.D.		
9) Naphthalene	2.957	128	2296	891.228	ng/ml#	100
10) Hexachlorobutadiene	0.000		0	N.D.		
11) 2-Methylnaphthalene	3.345	142	141	85.676	ng/ml	97
14) 2-Chloronaphthalene	0.000		0	N.D.		
16) Acenaphthylene	3.855	152	19M7	7.159	ng/ml	
18) Acenaphthene	3.956	153	34M6	15.993	ng/ml	
20) Fluorene	4.255	166	36M6	16.779	ng/ml	
24) Hexachlorobenzene	0.000		0	N.D. d		
25) Pentachlorophenol	0.000		0	N.D.		

Data Path : I:\8270SIM\SV128\240305\
Data File : 10579-08.D
Acq On : 05 Mar 2024 11:54 am
Operator : SV128:jjw
Sample : L2410579-08,32,,ah
Misc : WG1892213,wg1892049,ical20676
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Mar 05 12:20:59 2024
Quant Method : I:\8270sim\sv128\240305\SIM-LVI_231211_sv128.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Mar 05 07:15:56 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv128\240305\ccv0305a.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Phenanthrene	4.811	178	63M6	14.939	ng/ml	
27) Anthracene	4.837	178	15M6	3.681	ng/ml	
28) Fluoranthene	5.502	202	26M4	5.612	ng/ml	
29) Pyrene	5.636	202	20M7	4.172	ng/ml	
32) Benzo[a]anthracene	6.386	228	58M7	3.439	ng/ml	
34) Chrysene	6.405	228	11M3	1.967	ng/ml	
37) Benzo[b]fluoranthene	7.288	252	15M7	2.690	ng/ml	
38) Benzo[k]fluoranthene	7.313	252	8M3	1.541	ng/ml	
39) Benzo[a]pyrene	0.000		0	N.D.	d	
40) Indeno[1,2,3-cd]pyrene	0.000		0	N.D.	d	
41) Dibenzo[a,h]anthracene	0.000		0	N.D.		
42) Benzo[g,h,i]perylene	0.000		0	N.D.		

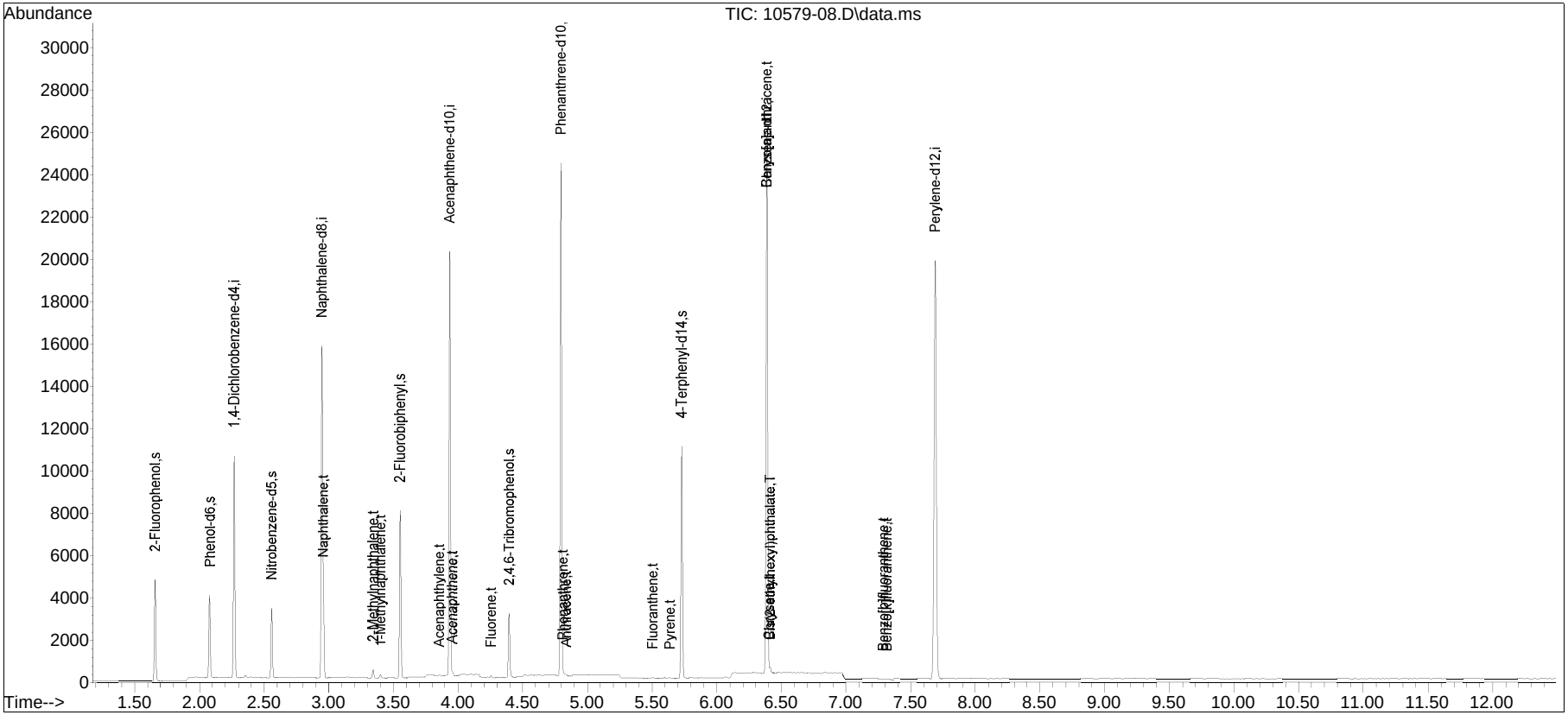
(#) = qualifier out of range (m) = manual integration (+) = signals summed

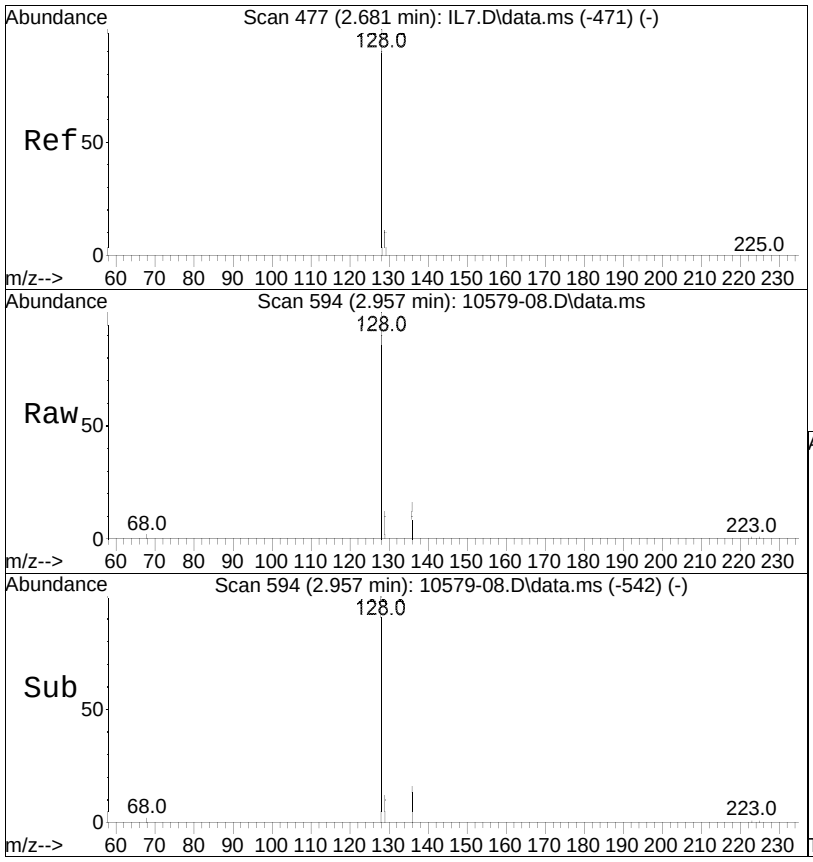
Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV128\240305\
Data File : 10579-08.D
Acq On : 05 Mar 2024 11:54 am
Operator : SV128:jjw
Sample : L2410579-08,32,,ah
Misc : WG1892213,wg1892049,ical20676
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Mar 05 12:20:59 2024
Quant Method : I:\8270sim\sv128\240305\SIM-LVI_231211_sv128.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Mar 05 07:15:56 2024
Response via : Initial Calibration

Sub List : DEFAULT - All compounds listedv0305a.D•

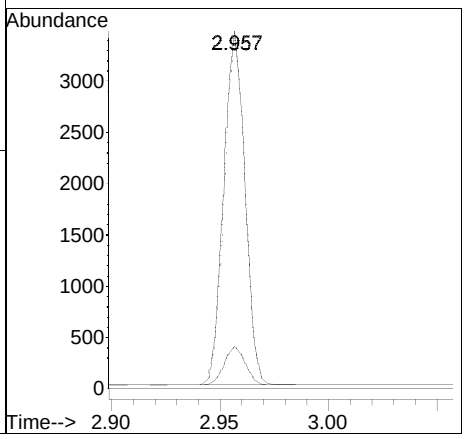


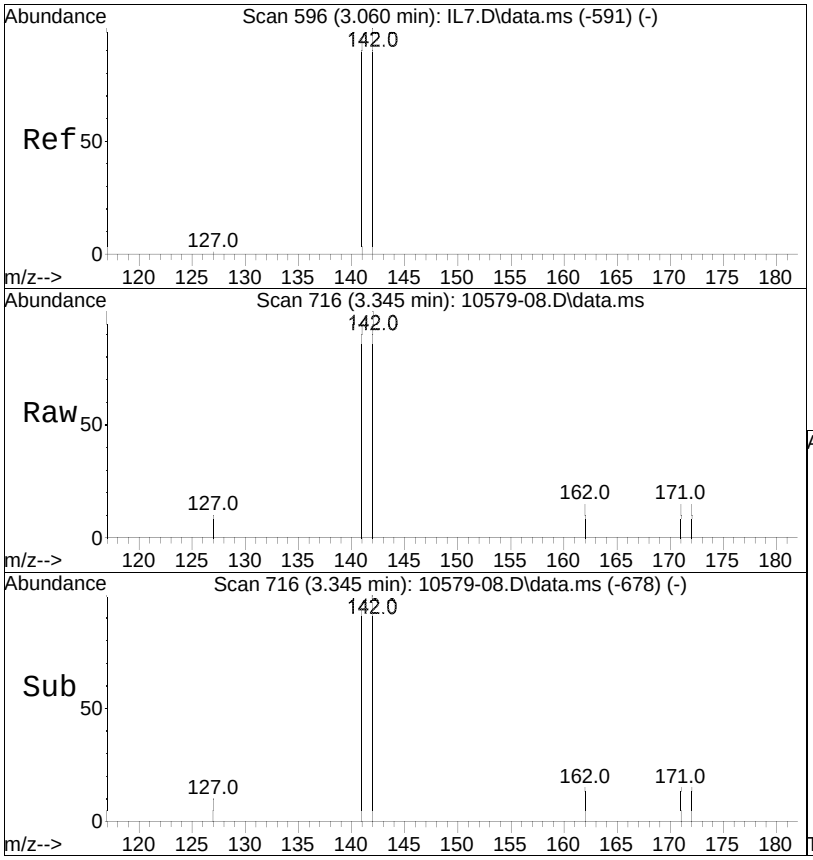


#9
Naphthalene
Concen: 891.23 ng/ml
RT: 2.957 min Scan# 594
Delta R.T. 0.000 min
Lab File: 10579-08.D
Acq: 05 Mar 2024 11:54 am

Tgt Ion:128 Resp: 2296

Ion	Ratio	Lower	Upper
128	100		
129	10.9	8.8	13.2
127	0.0	0.0	0.0

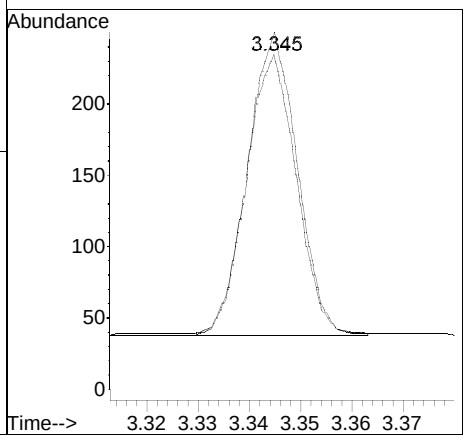


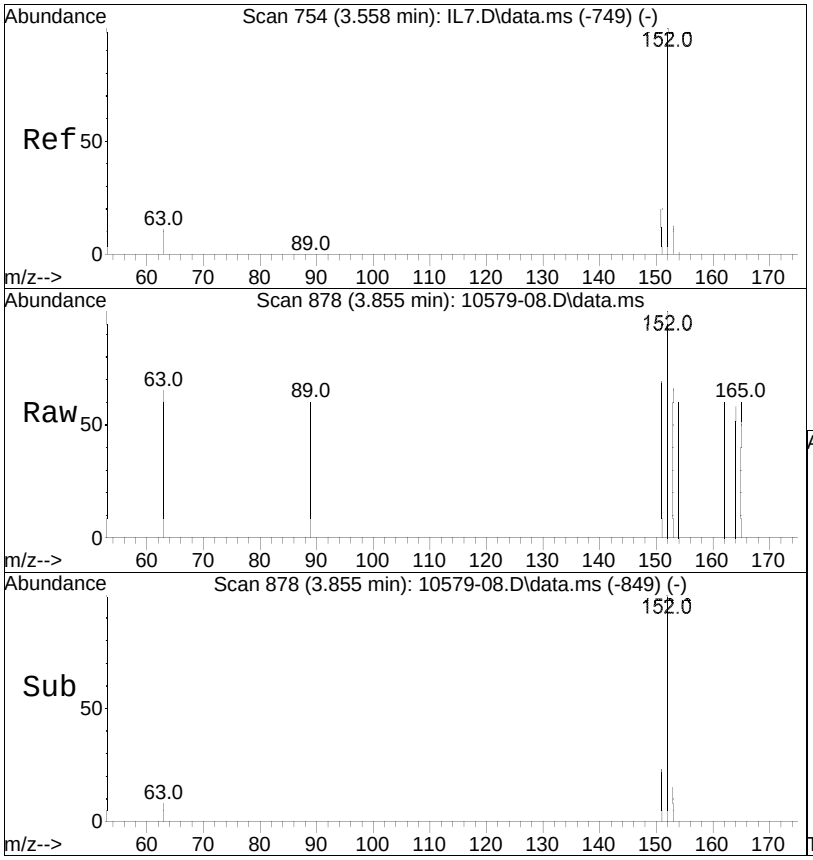


#11
2-Methylnaphthalene
Concen: 85.68 ng/ml
RT: 3.345 min Scan# 716
Delta R.T. 0.000 min
Lab File: 10579-08.D
Acq: 05 Mar 2024 11:54 am

Tgt Ion:142 Resp: 141

Ion	Ratio	Lower	Upper
142	100		
141	92.2	75.9	113.9

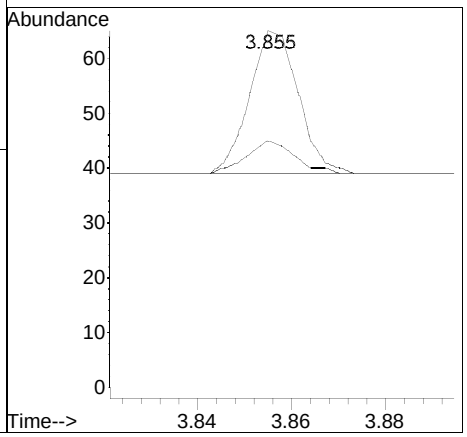


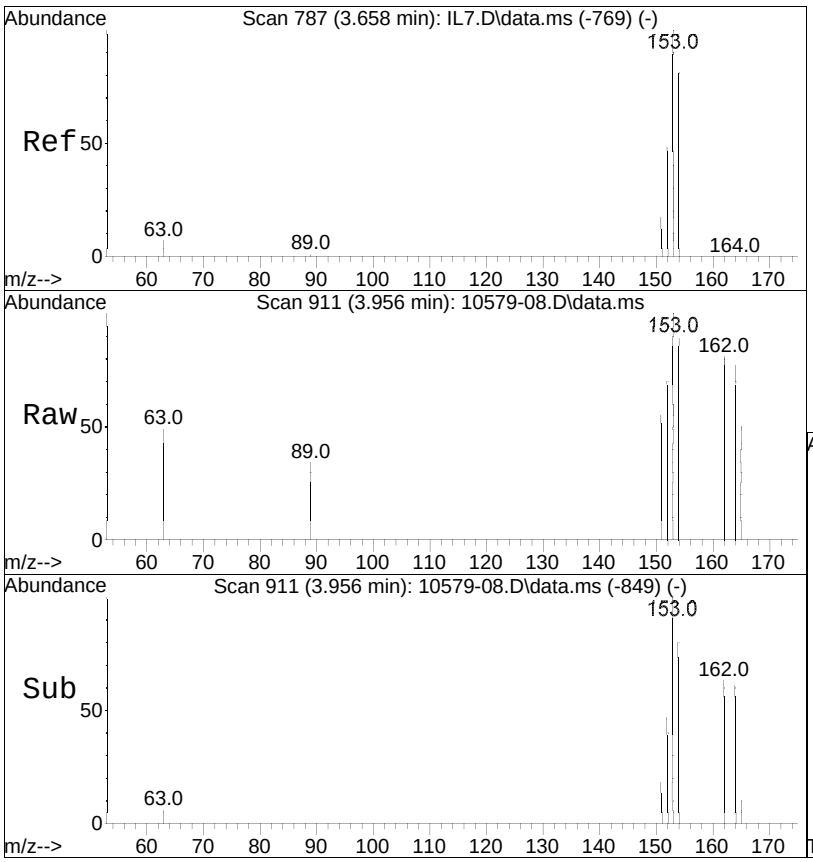


#16
Acenaphthylene
Concen: 7.16 ng/ml M7
RT: 3.855 min Scan# 878
Delta R.T. -0.006 min
Lab File: 10579-08.D
Acq: 05 Mar 2024 11:54 am

Tgt Ion:152 Resp: 19

Ion	Ratio	Lower	Upper
152	100		
151	21.1	16.4	24.6

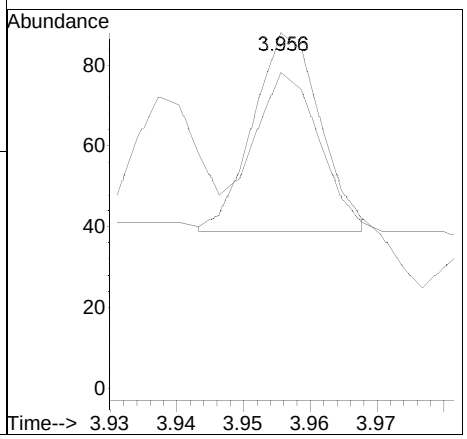


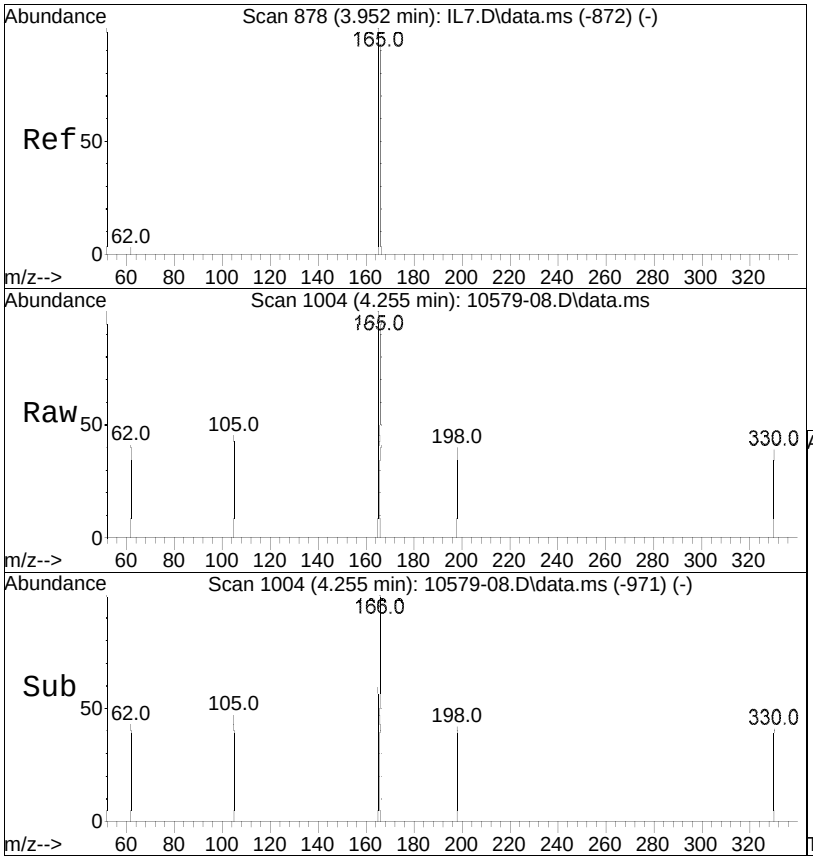


#18
Acenaphthene
Concen: 15.99 ng/ml M6
RT: 3.956 min Scan# 911
Delta R.T. -0.006 min
Lab File: 10579-08.D
Acq: 05 Mar 2024 11:54 am

Tgt Ion:153 Resp: 34

Ion	Ratio	Lower	Upper
153	100		
154	79.4	65.8	98.6

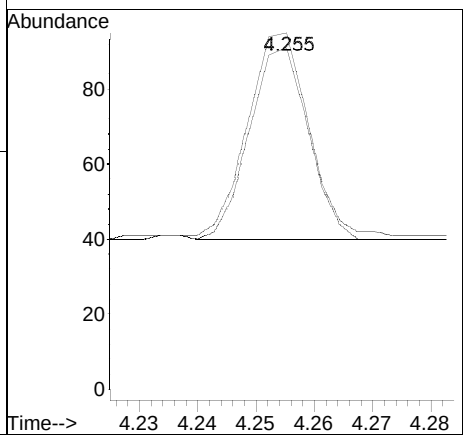


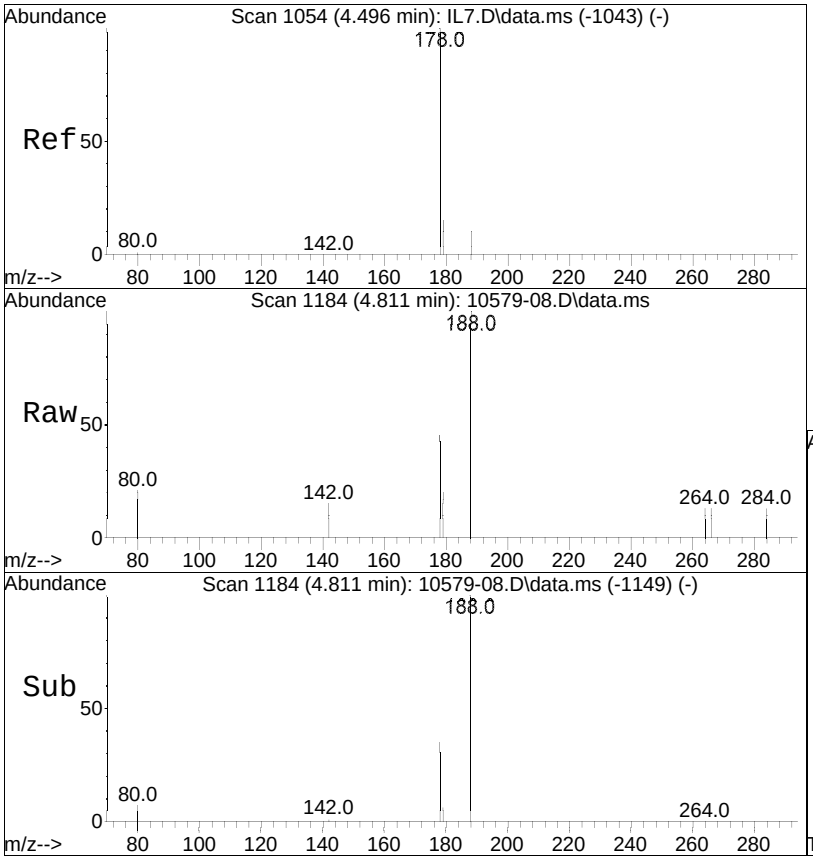


#20
Fluorene
Concen: 16.78 ng/ml M6
RT: 4.255 min Scan# 1004
Delta R.T. -0.003 min
Lab File: 10579-08.D
Acq: 05 Mar 2024 11:54 am

Tgt Ion:166 Resp: 36

Ion	Ratio	Lower	Upper
166	100		
165	116.7	85.7	128.5

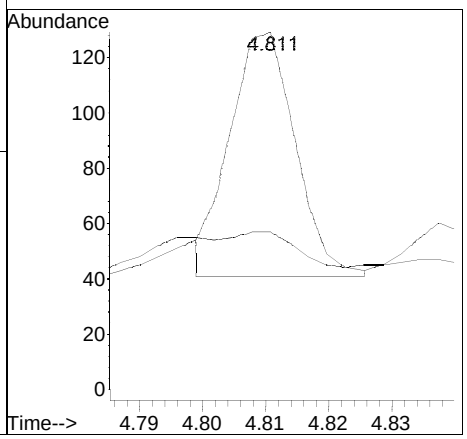


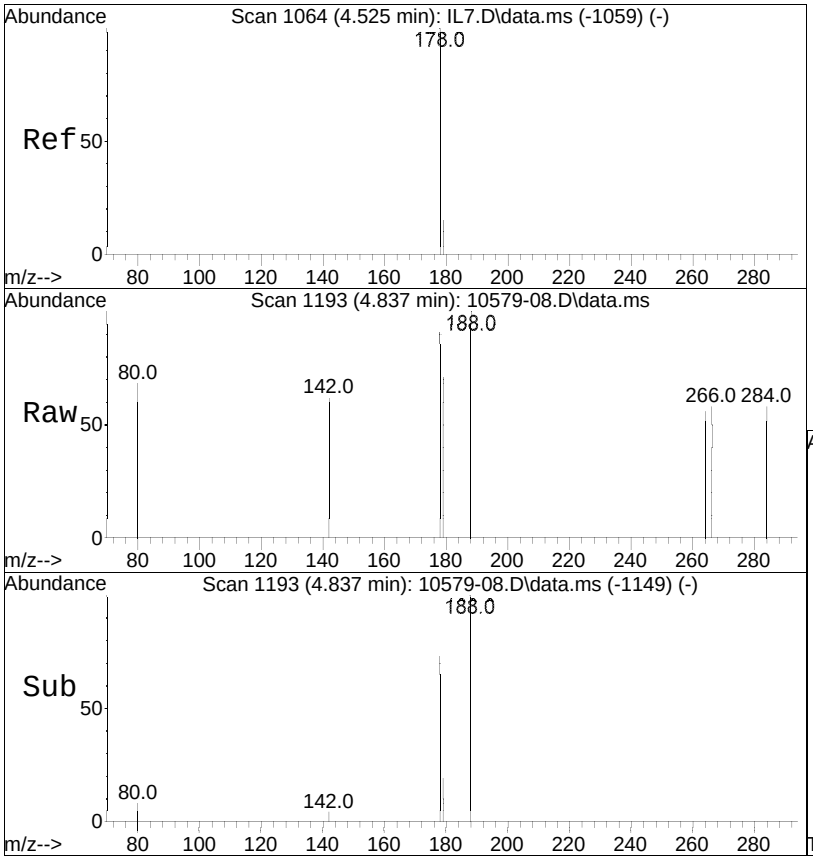


#26
Phenanthrene
Concen: 14.94 ng/ml M6
RT: 4.811 min Scan# 1184
Delta R.T. -0.003 min
Lab File: 10579-08.D
Acq: 05 Mar 2024 11:54 am

Tgt Ion:178 Resp: 63

Ion	Ratio	Lower	Upper
178	100		
179	15.9	12.2	18.4

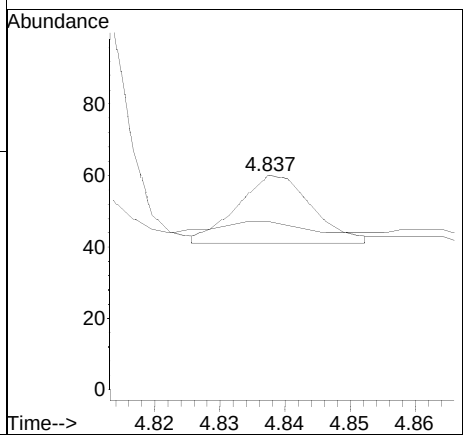


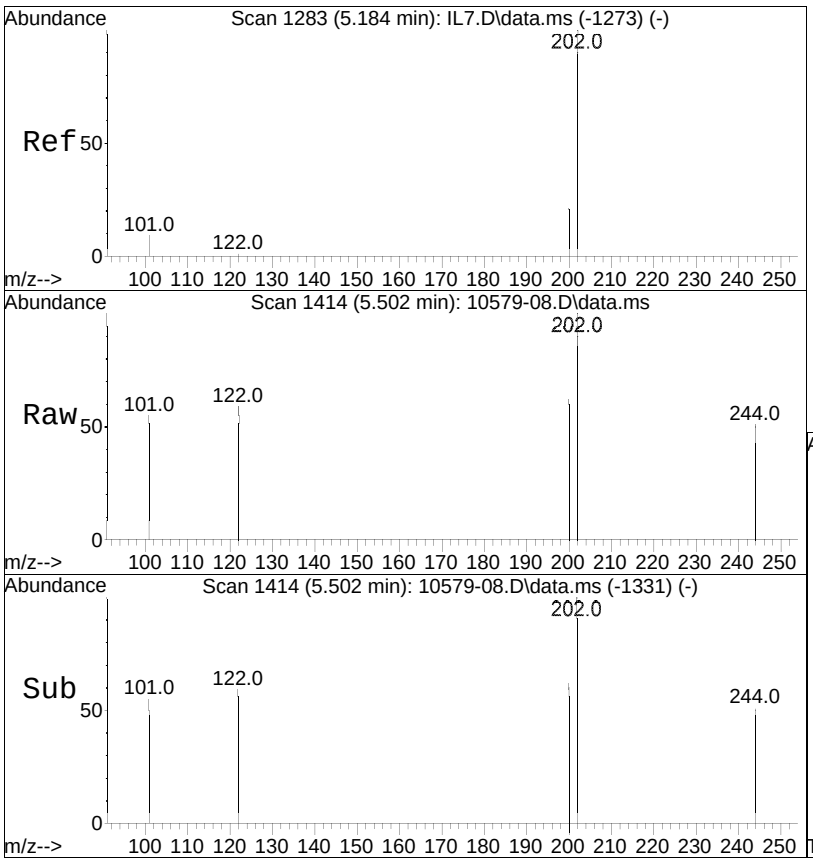


#27
Anthracene
Concen: 3.68 ng/ml M6
RT: 4.837 min Scan# 1193
Delta R.T. -0.006 min
Lab File: 10579-08.D
Acq: 05 Mar 2024 11:54 am

Tgt Ion:178 Resp: 15

Ion	Ratio	Lower	Upper
178	100		
179	13.3	12.2	18.2

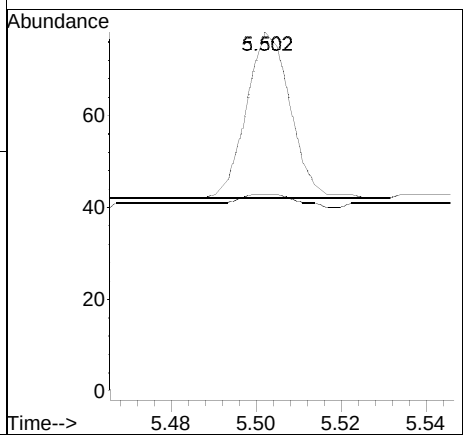


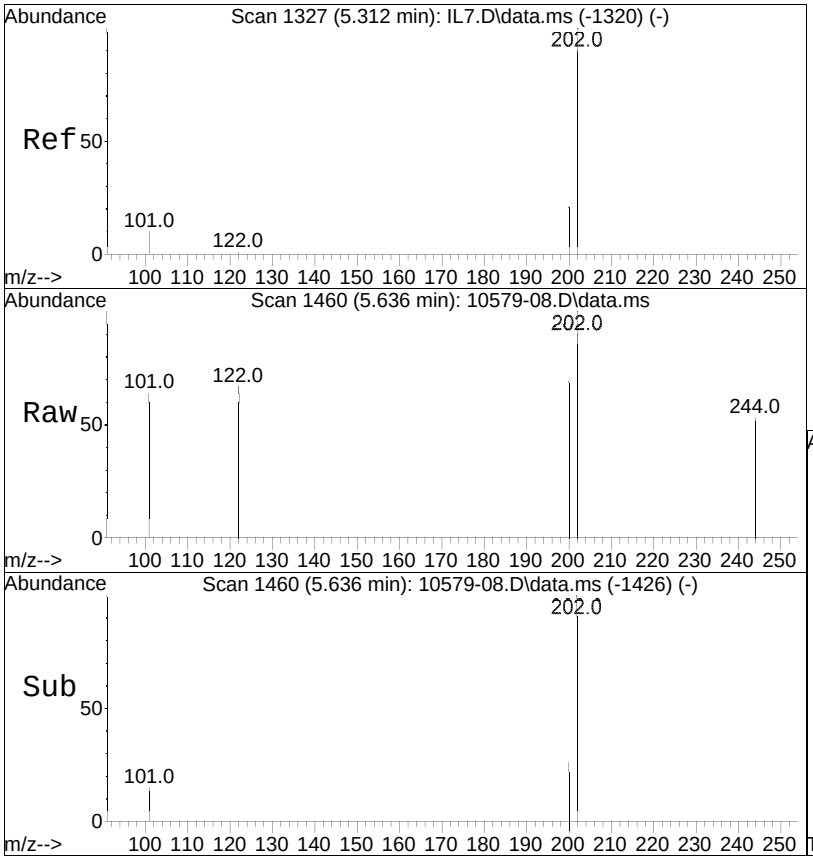


#28
Fluoranthene
Concen: 5.61 ng/ml M4
RT: 5.502 min Scan# 1414
Delta R.T. -0.009 min
Lab File: 10579-08.D
Acq: 05 Mar 2024 11:54 am

Tgt Ion:202 Resp: 26

Ion	Ratio	Lower	Upper
202	100		
101	11.5	7.2	10.8#

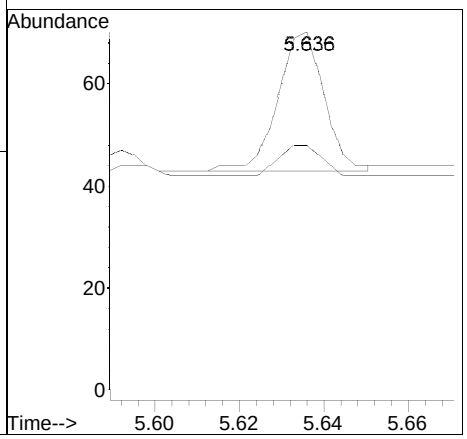


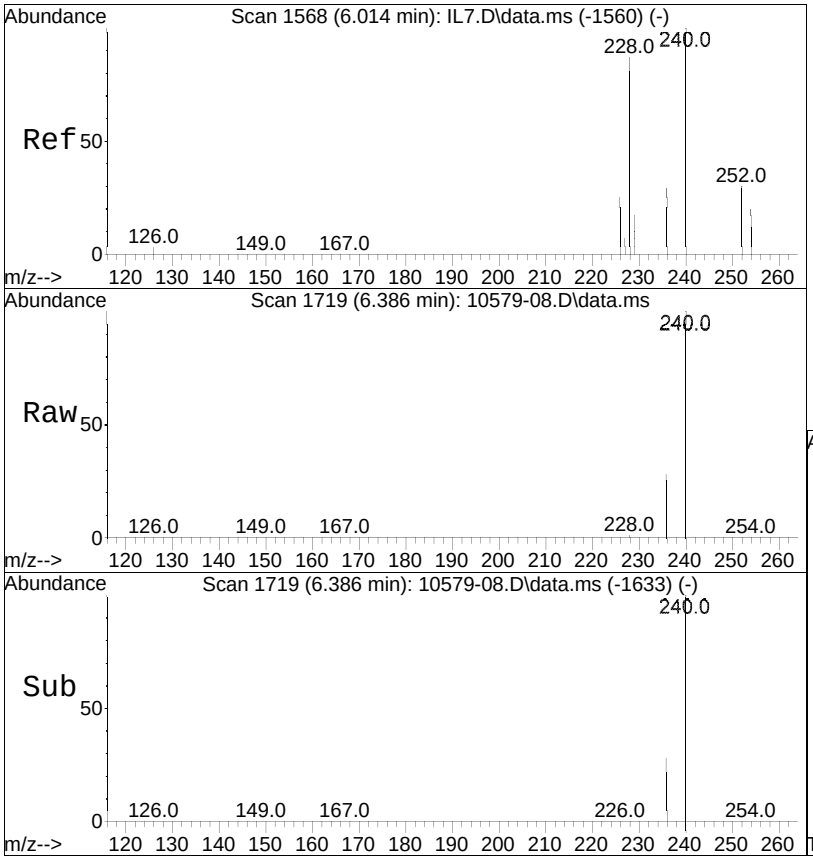


#29
Pyrene
Concen: 4.17 ng/ml M7
RT: 5.636 min Scan# 1460
Delta R.T. -0.006 min
Lab File: 10579-08.D
Acq: 05 Mar 2024 11:54 am

Tgt Ion:202 Resp: 20

Ion	Ratio	Lower	Upper
202	100		
200	25.0	17.7	26.5

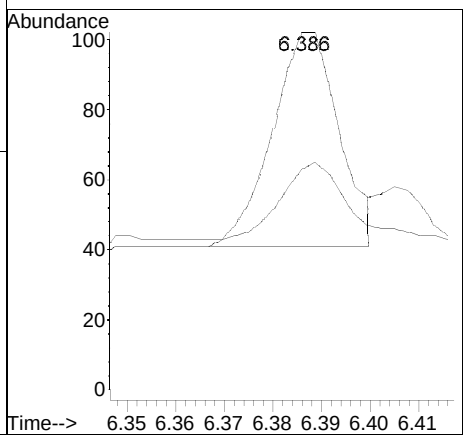


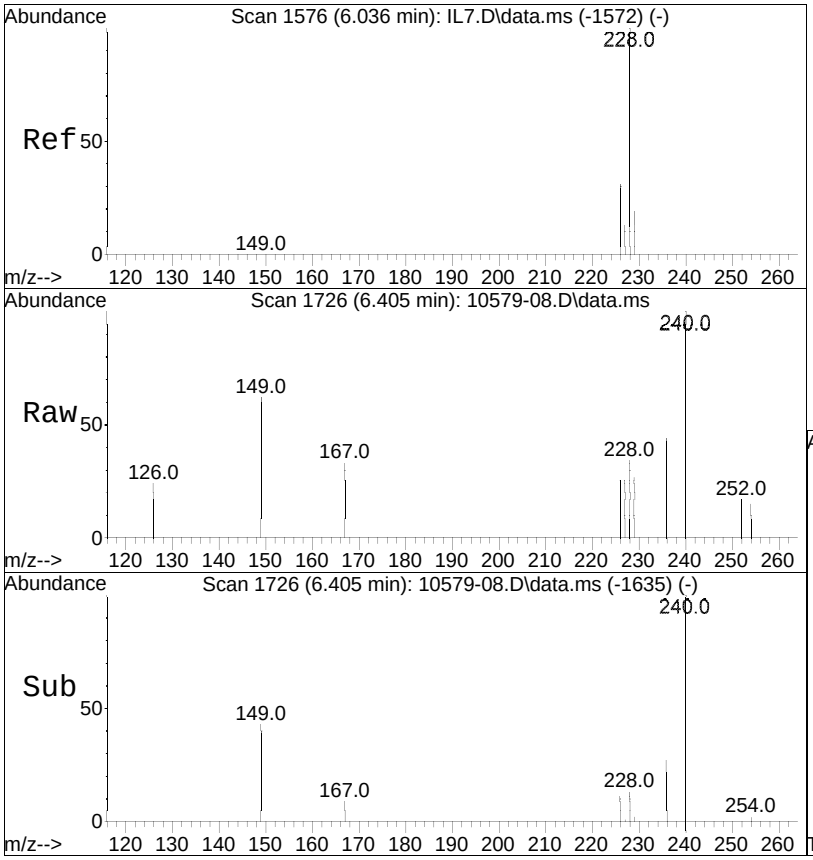


#32
Benzo[a]anthracene
Concen: 3.44 ng/ml M7
RT: 6.386 min Scan# 1719
Delta R.T. -0.002 min
Lab File: 10579-08.D
Acq: 05 Mar 2024 11:54 am

Tgt Ion:228 Resp: 58

Ion	Ratio	Lower	Upper
228	100		
229	34.5	15.7	23.5#

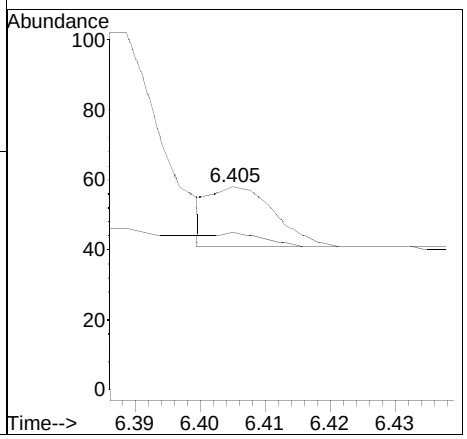


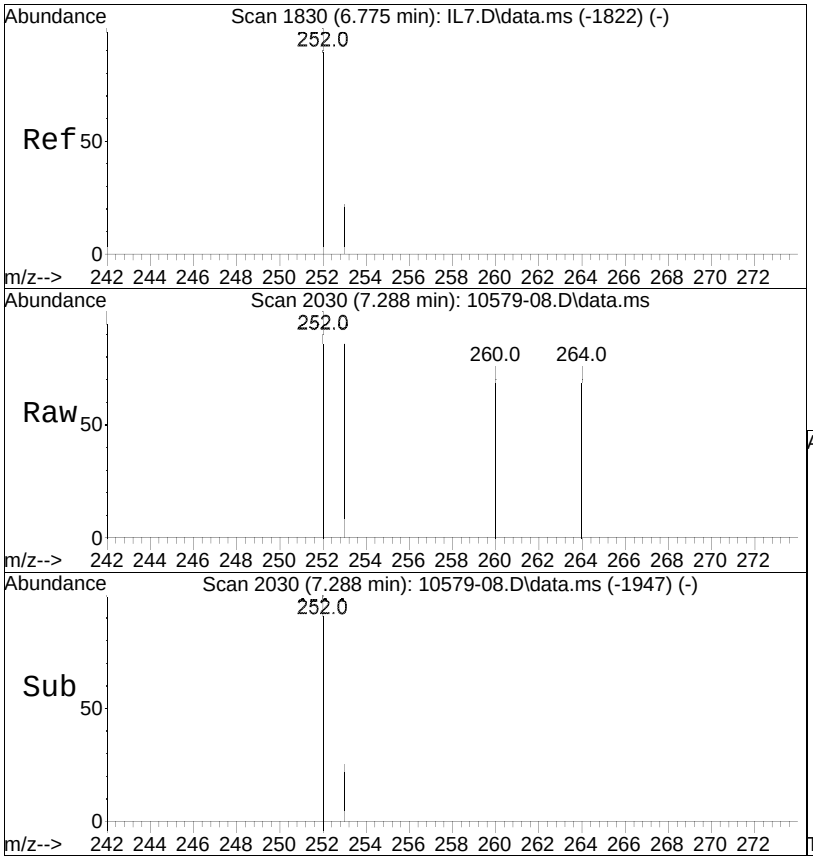


#34
Chrysene
Concen: 1.97 ng/ml M3
RT: 6.405 min Scan# 1726
Delta R.T. -0.011 min
Lab File: 10579-08.D
Acq: 05 Mar 2024 11:54 am

Tgt Ion:228 Resp: 11

Ion	Ratio	Lower	Upper
228	100		
226	36.4	24.6	36.8

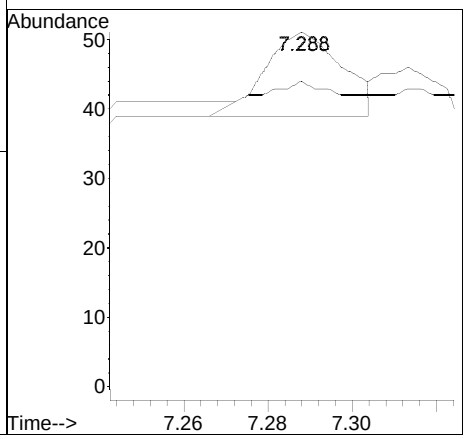


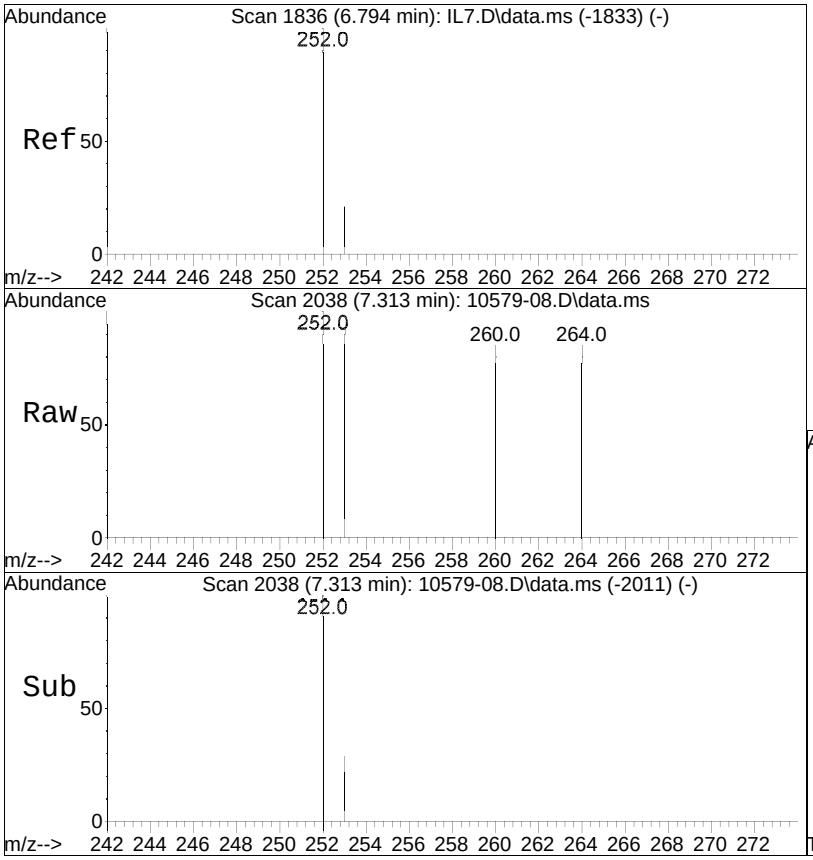


#37
Benzo[b]fluoranthene
Concen: 2.69 ng/ml M7
RT: 7.288 min Scan# 2030
Delta R.T. -0.016 min
Lab File: 10579-08.D
Acq: 05 Mar 2024 11:54 am

Tgt Ion:252 Resp: 15

Ion	Ratio	Lower	Upper
252	100		
253	20.0	17.1	25.7

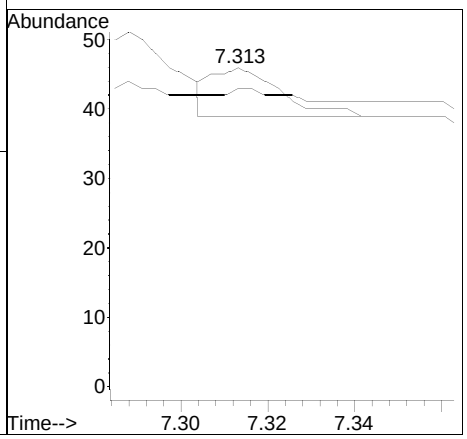




#38
Benzo[k]fluoranthene
Concen: 1.54 ng/ml M3
RT: 7.313 min Scan# 2038
Delta R.T. -0.016 min
Lab File: 10579-08.D
Acq: 05 Mar 2024 11:54 am

Tgt Ion:252 Resp: 8

Ion	Ratio	Lower	Upper
252	100		
253	25.0	17.3	25.9

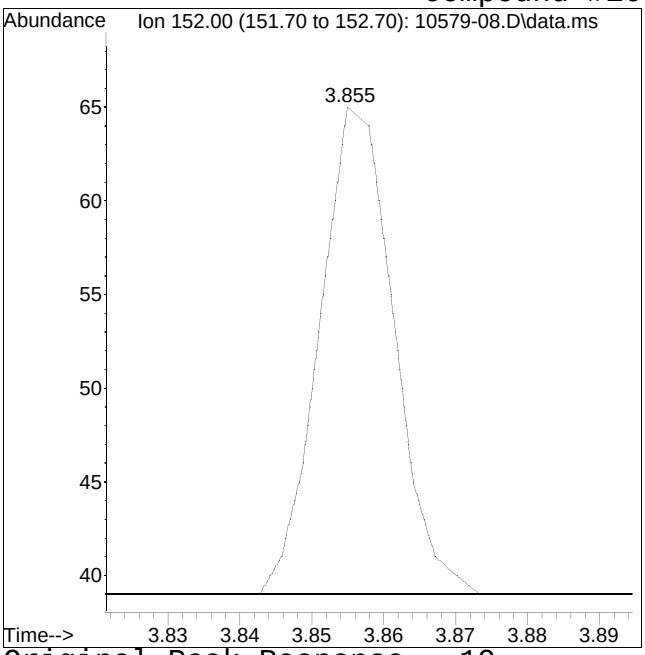


Manual Integration Report

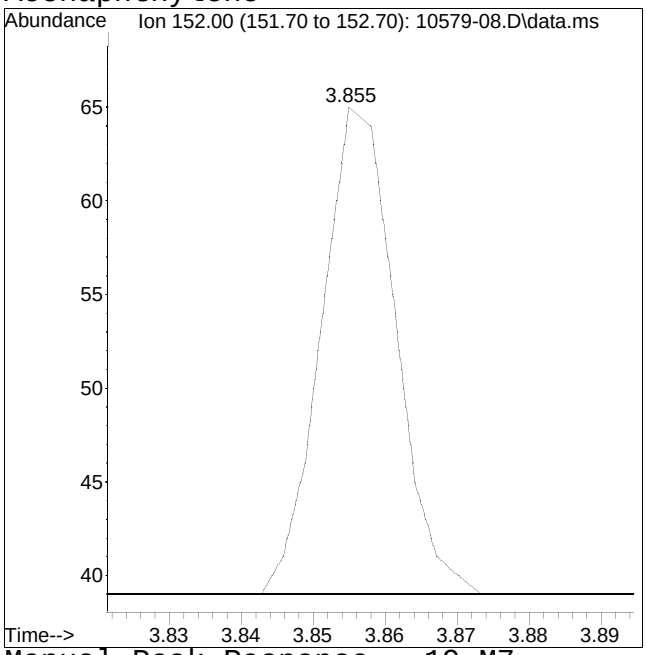
Data Path : I:\8270SIM\SV128\240305\
Data File : 10579-08.D
Date Inj'd : 3/5/2024 11:54 am
Sample : L2410579-08,32,,ah

QMethod : SIM-LVI_231211_sv128.M
Operator : SV128:jjw
Instrument : SV128
Quant Date : 3/5/2024 12:09 pm

Compound #16: Acenaphthylene



Original Peak Response = 19



Manual Peak Response = 19 M7

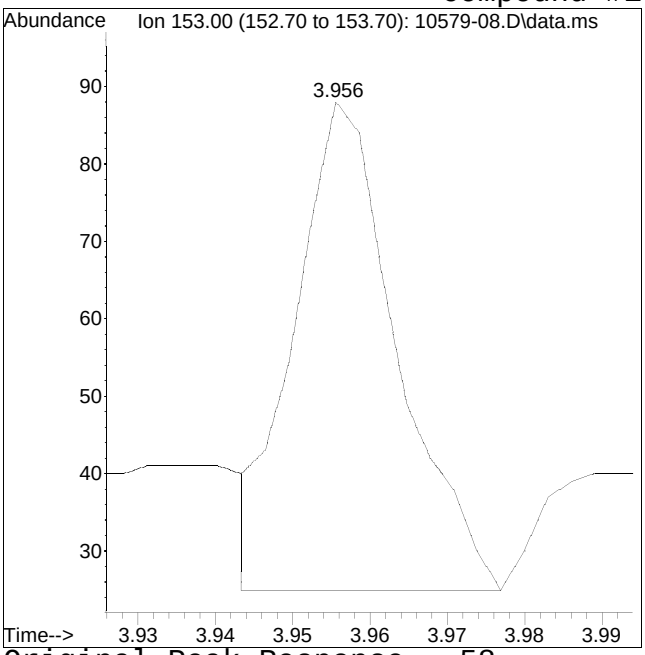
M7 = A qualifier ion was manually integrated (only for GC/MS data).

Manual Integration Report

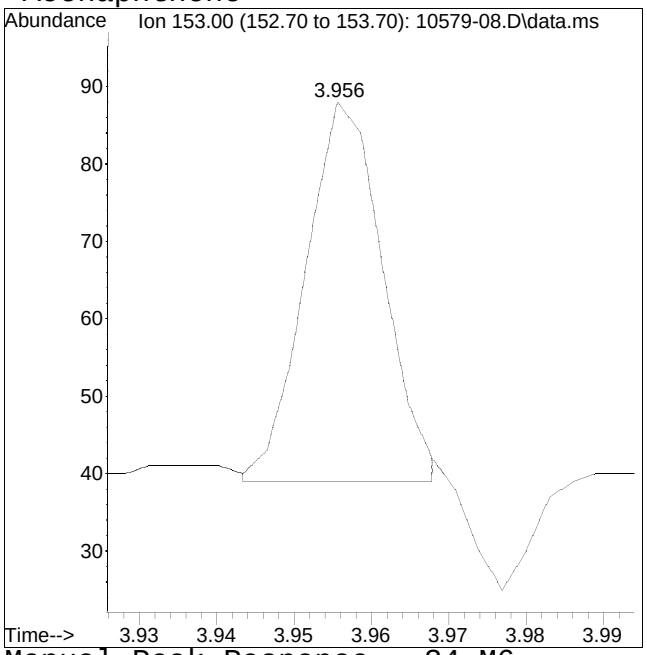
Data Path : I:\8270SIM\SV128\240305\
Data File : 10579-08.D
Date Inj'd : 3/5/2024 11:54 am
Sample : L2410579-08,32,,ah

QMethod : SIM-LVI_231211_sv128.M
Operator : SV128:jjw
Instrument : SV128
Quant Date : 3/5/2024 12:09 pm

Compound #18: Acenaphthene



Original Peak Response = 58



Manual Peak Response = 34 M6

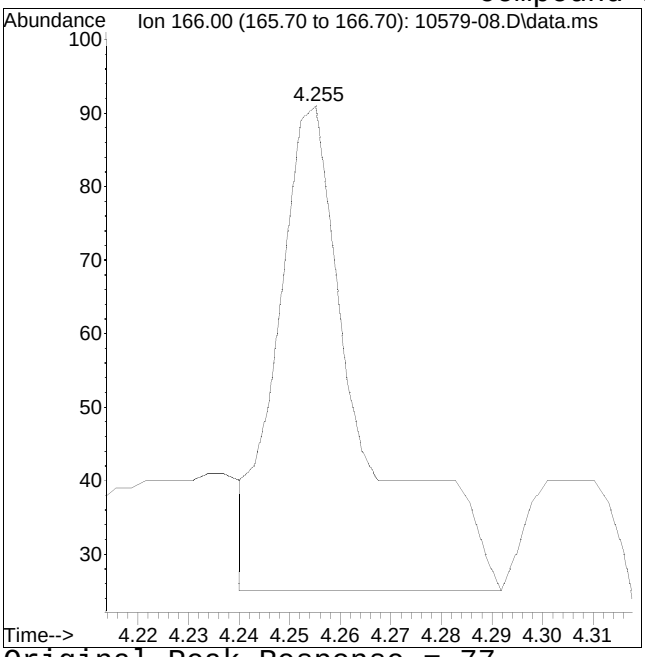
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

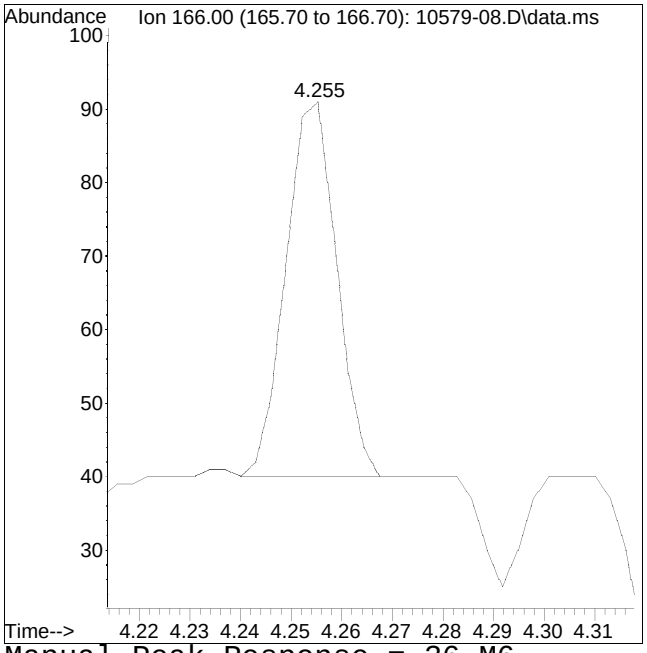
Data Path : I:\8270SIM\SV128\240305\
Data File : 10579-08.D
Date Inj'd : 3/5/2024 11:54 am
Sample : L2410579-08,32,,ah

QMethod : SIM-LVI_231211_sv128.M
Operator : SV128:jjw
Instrument : SV128
Quant Date : 3/5/2024 12:09 pm

Compound #20: Fluorene



Original Peak Response = 77



Manual Peak Response = 36 M6

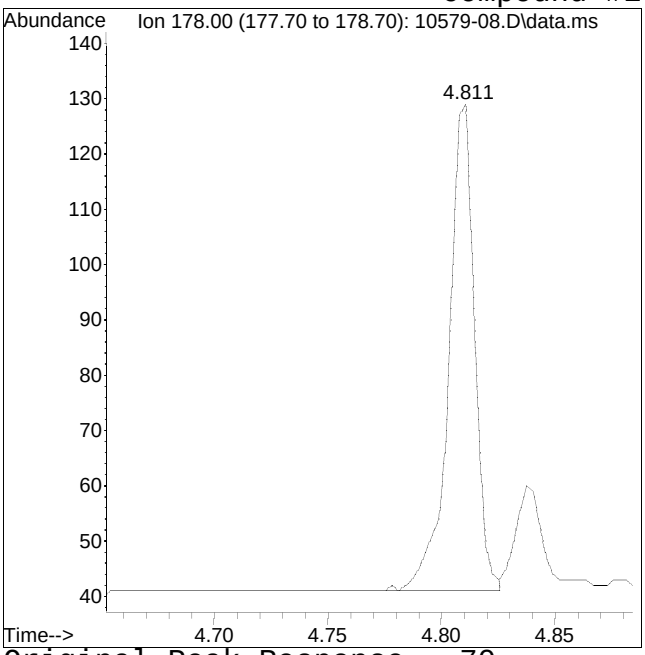
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

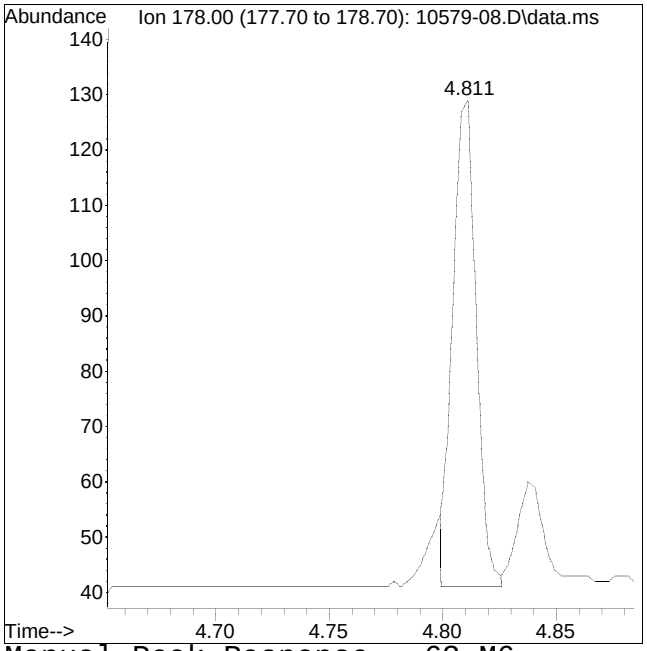
Data Path : I:\8270SIM\SV128\240305\
Data File : 10579-08.D
Date Inj'd : 3/5/2024 11:54 am
Sample : L2410579-08,32,,ah

QMethod : SIM-LVI_231211_sv128.M
Operator : SV128:jjw
Instrument : SV128
Quant Date : 3/5/2024 12:09 pm

Compound #26: Phenanthrene



Original Peak Response = 70



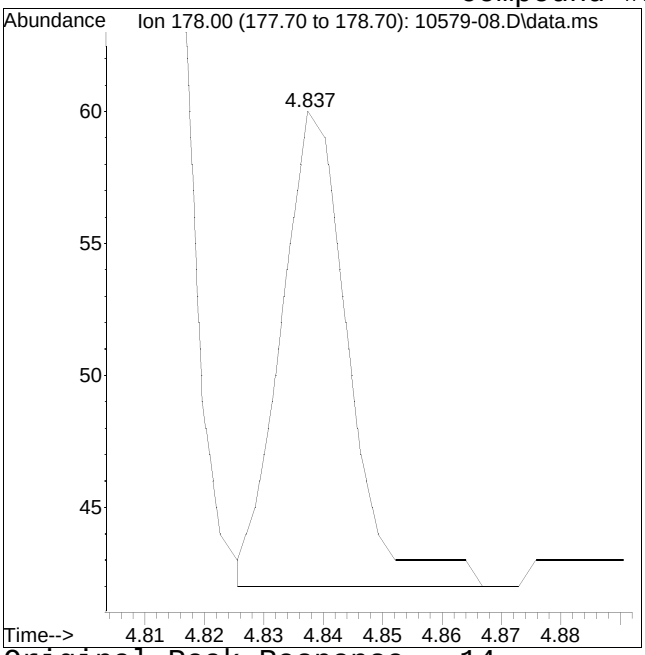
Manual Peak Response = 63 M6

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

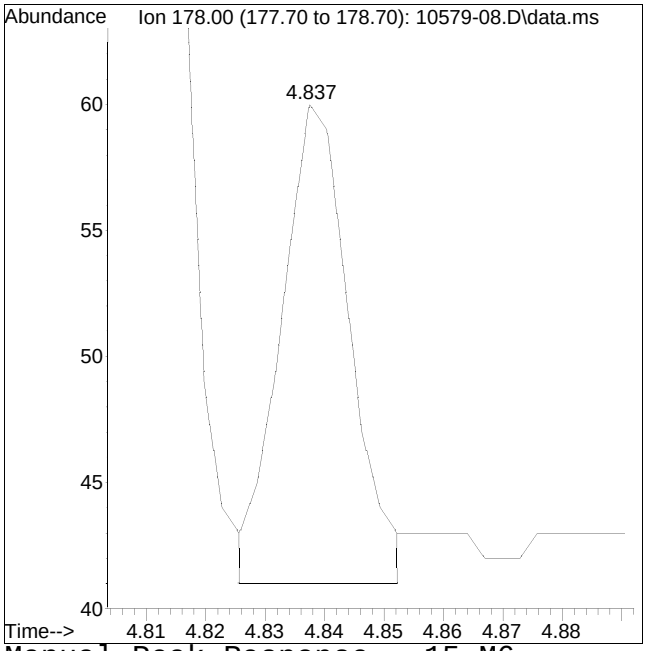
Manual Integration Report

Data Path : I:\8270SIM\SV128\240305\ QMethod : SIM-LVI_231211_sv128.M
Data File : 10579-08.D Operator : SV128:jjw
Date Inj'd : 3/5/2024 11:54 am Instrument : SV128
Sample : L2410579-08,32,,ah Quant Date : 3/5/2024 12:09 pm

Compound #27: Anthracene



Original Peak Response = 14



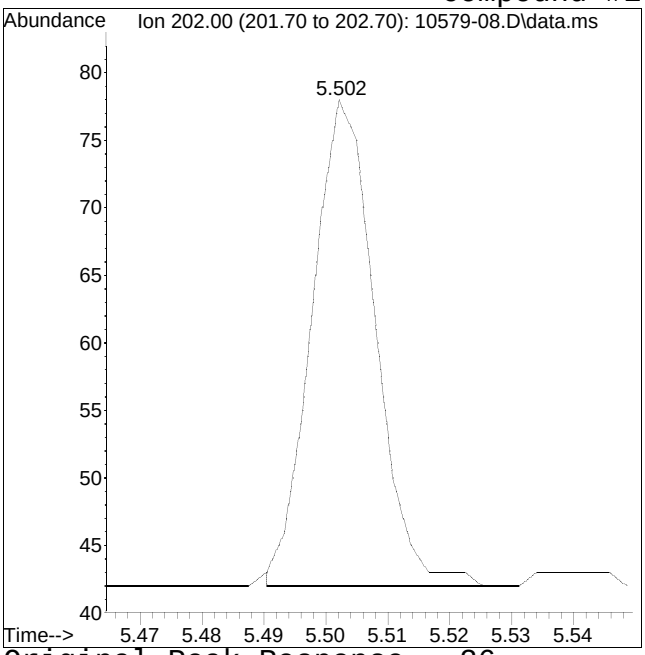
Manual Peak Response = 15 M6

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

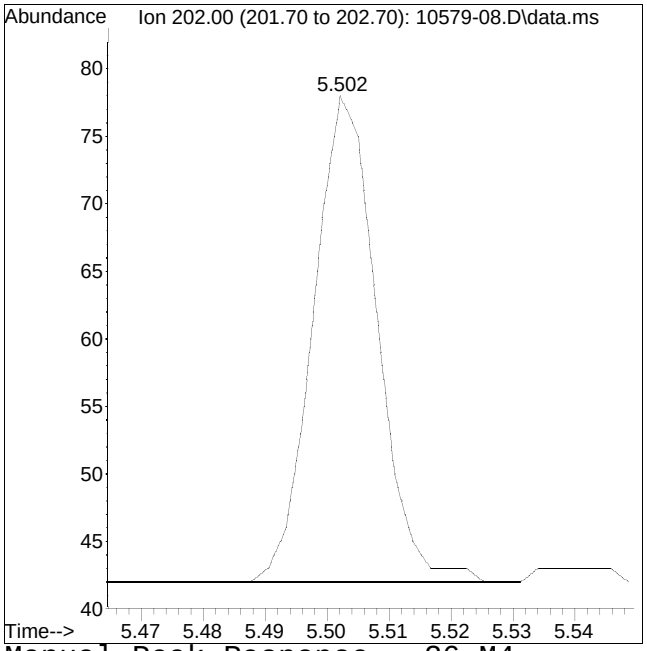
Manual Integration Report

Data Path : I:\8270SIM\SV128\240305\ QMethod : SIM-LVI_231211_sv128.M
Data File : 10579-08.D Operator : SV128:jjw
Date Inj'd : 3/5/2024 11:54 am Instrument : SV128
Sample : L2410579-08,32,,ah Quant Date : 3/5/2024 12:09 pm

Compound #28: Fluoranthene



Original Peak Response = 26



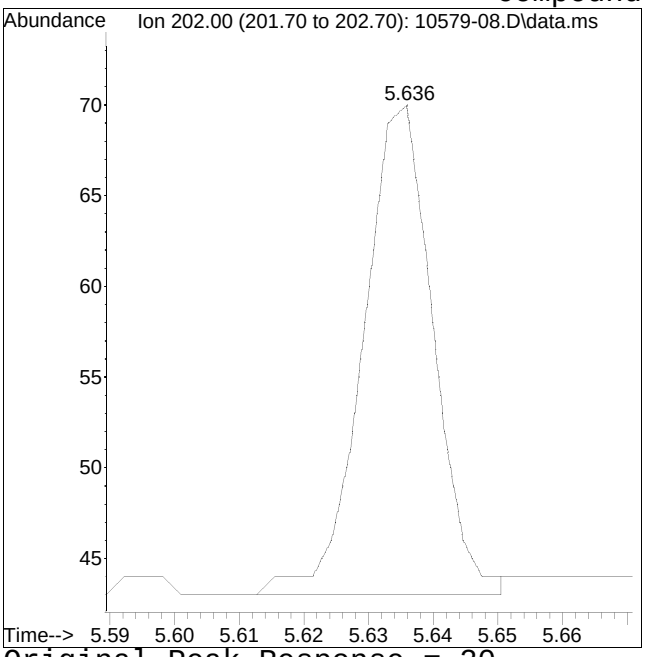
Manual Peak Response = 26 M4

M4 = Poor automated baseline construction.

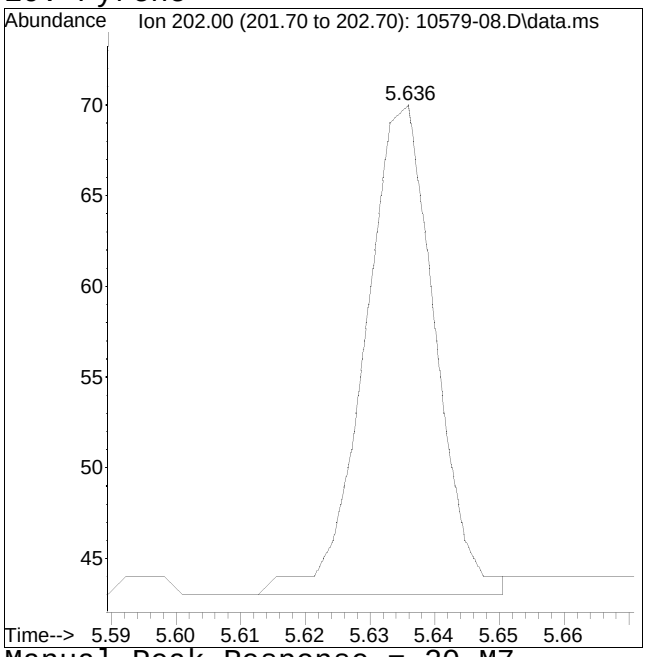
Manual Integration Report

Data Path : I:\8270SIM\SV128\240305\ QMethod : SIM-LVI_231211_sv128.M
Data File : 10579-08.D Operator : SV128:jjw
Date Inj'd : 3/5/2024 11:54 am Instrument : SV128
Sample : L2410579-08,32,,ah Quant Date : 3/5/2024 12:09 pm

Compound #29: Pyrene



Original Peak Response = 20



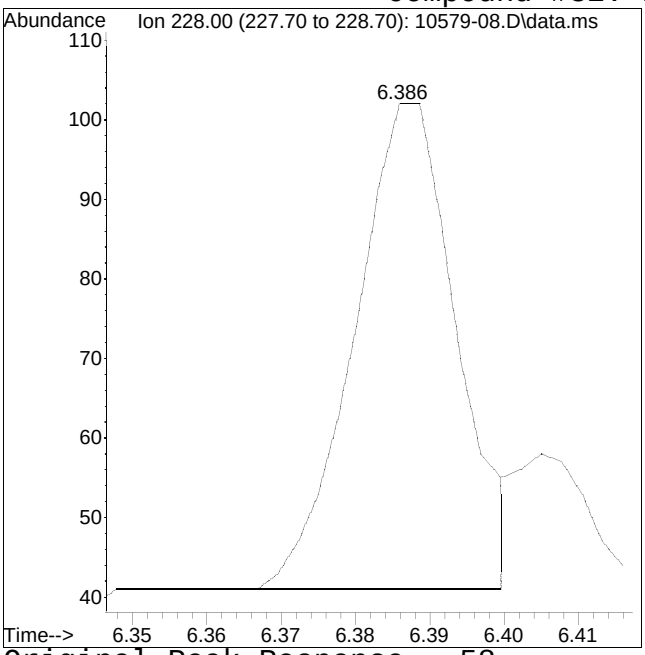
Manual Peak Response = 20 M7

M7 = A qualifier ion was manually integrated (only for GC/MS data).

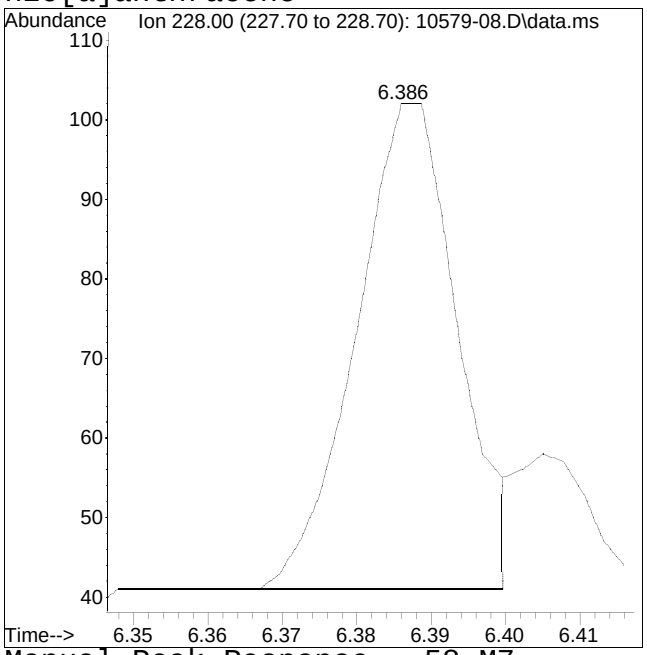
Manual Integration Report

Data Path	: I:\8270SIM\SV128\240305\	QMethod	: SIM-LVI_231211_sv128.M
Data File	: 10579-08.D	Operator	: SV128:jjw
Date Inj'd	: 3/5/2024 11:54 am	Instrument	: SV128
Sample	: L2410579-08,32,,ah	Quant Date	: 3/5/2024 12:09 pm

Compound #32: Benzo[a]anthracene



Original Peak Response = 58



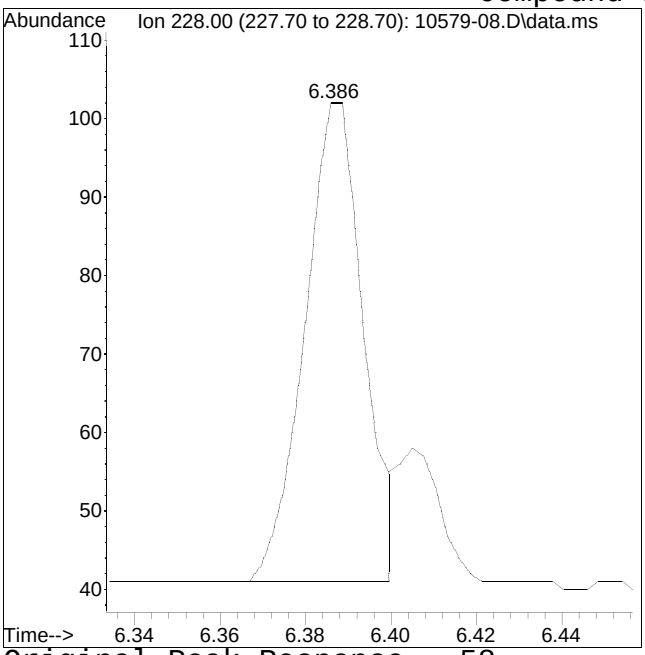
Manual Peak Response = 58 M7

M7 = A qualifier ion was manually integrated (only for GC/MS data).

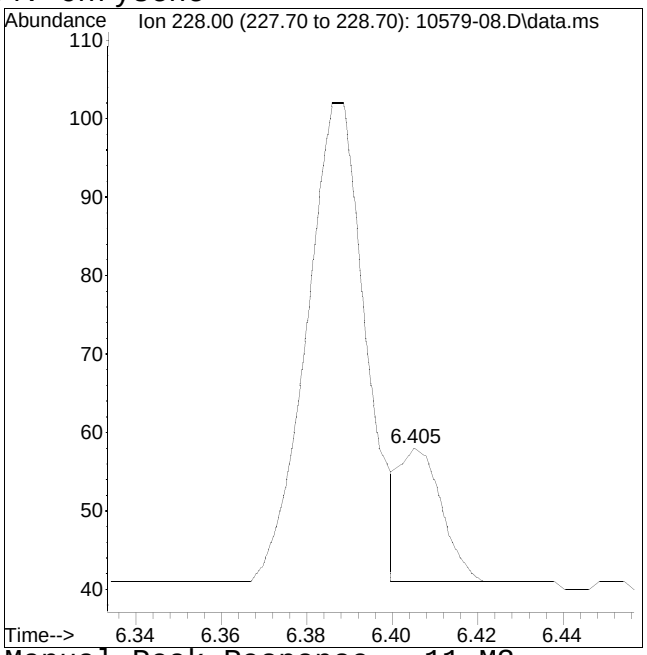
Manual Integration Report

Data Path : I:\8270SIM\SV128\240305\ QMethod : SIM-LVI_231211_sv128.M
Data File : 10579-08.D Operator : SV128:jjw
Date Inj'd : 3/5/2024 11:54 am Instrument : SV128
Sample : L2410579-08,32,,ah Quant Date : 3/5/2024 12:09 pm

Compound #34: Chrysene



Original Peak Response = 58



Manual Peak Response = 11 M3

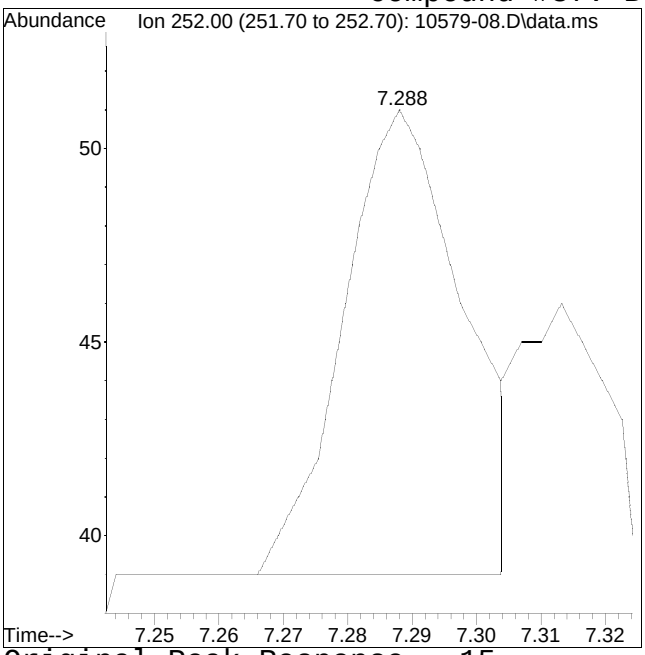
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

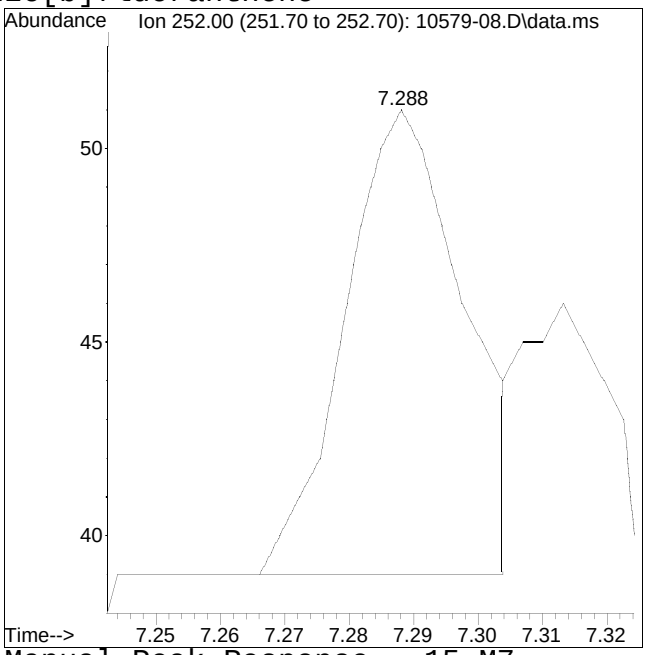
Data Path : I:\8270SIM\SV128\240305\
Data File : 10579-08.D
Date Inj'd : 3/5/2024 11:54 am
Sample : L2410579-08,32,,ah

QMethod : SIM-LVI_231211_sv128.M
Operator : SV128:jjw
Instrument : SV128
Quant Date : 3/5/2024 12:09 pm

Compound #37: Benzo[b]fluoranthene



Original Peak Response = 15



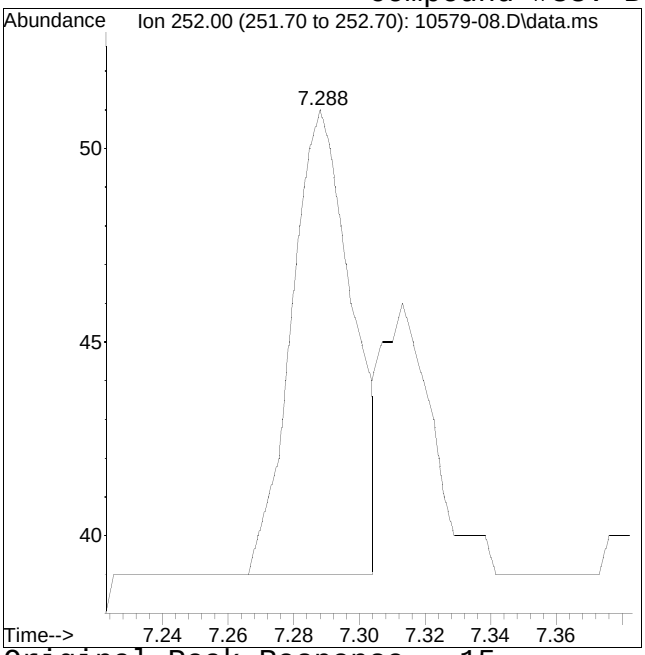
Manual Peak Response = 15 M7

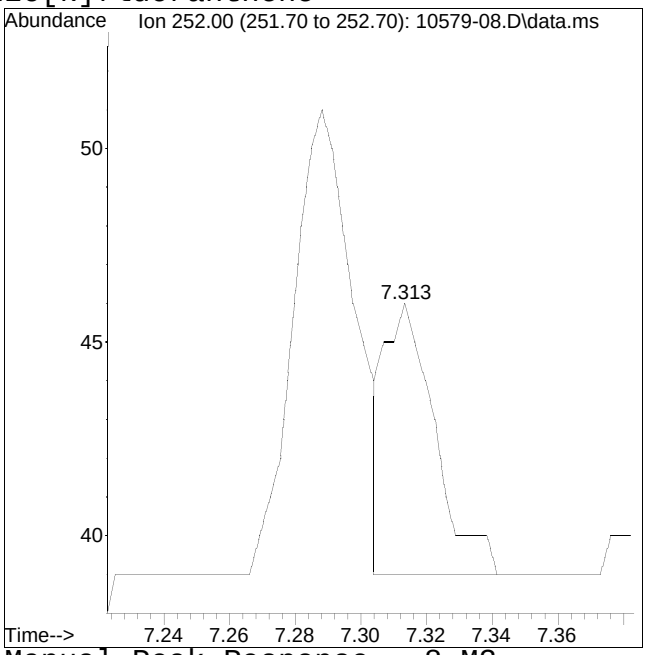
M7 = A qualifier ion was manually integrated (only for GC/MS data).

Manual Integration Report

Data Path : I:\8270SIM\SV128\240305\ QMethod : SIM-LVI_231211_sv128.M
Data File : 10579-08.D Operator : SV128:jjw
Date Inj'd : 3/5/2024 11:54 am Instrument : SV128
Sample : L2410579-08,32,,ah Quant Date : 3/5/2024 12:09 pm

Compound #38: Benzo[k]fluoranthene





Original Peak Response = 15 Manual Peak Response = 8 M3

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV128\240305\
Data File : 10579-09.D
Acq On : 05 Mar 2024 01:34 pm
Operator : SV128:jjw
Sample : L2410579-09,32,,ah
Misc : WG1892213,wg1892049,ical20676
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Mar 05 14:12:29 2024
Quant Method : I:\8270sim\sv128\240305\SIM-LVI_231211_sv128.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Mar 05 07:15:56 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv128\240305\ccv0305a.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.269	152	2822	4000.000	ng/ml	0.00
Standard Area 1 = 1565			Recovery = 180.32%			
8) Naphthalene-d8	2.947	136	10447	4000.000	ng/ml	0.00
Standard Area 1 = 5966			Recovery = 175.11%			
17) Acenaphthene-d10	3.940	164	6516	4000.000	ng/ml	0.00
Standard Area 1 = 4044			Recovery = 161.13%			
22) Phenanthrene-d10	4.796	188	16092	4000.000	ng/ml	0.00
Standard Area 1 = 10610			Recovery = 151.67%			
31) Chrysene-d12	6.389	240	16449	4000.000	ng/ml	0.00
Standard Area 1 = 12274			Recovery = 134.01%			
36) Perylene-d12	7.687	264	18509	4000.000	ng/ml	-0.02
Standard Area 1 = 14188			Recovery = 130.46%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.659	112	2030	2856.635	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 57.13%			
3) Phenol-d6	2.083	99	2205	2655.035	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 53.10%			
7) Nitrobenzene-d5	2.556	82	1376	2050.178	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 82.01%			
13) 2-Fluorobiphenyl	3.552	172	4171	1882.640	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 75.31%			
21) 2,4,6-Tribromophenol	4.395	330	1510	4637.383	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 92.75%			
30) 4-Terphenyl-d14	5.729	244	7181	2141.954	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 85.68%			
Target Compounds						Qvalue
6) Hexachloroethane	0.000		0	N.D.		
9) Naphthalene	2.957	128	52	19.410	ng/ml#	99
10) Hexachlorobutadiene	0.000		0	N.D.		
11) 2-Methylnaphthalene	3.345	142	12	7.012	ng/ml	95
14) 2-Chloronaphthalene	3.619	162	12M1	6.441	ng/ml	
16) Acenaphthylene	0.000		0	N.D. d		
18) Acenaphthene	3.955	153	5M7	2.270	ng/ml	
20) Fluorene	4.255	166	11M6	4.948	ng/ml	
24) Hexachlorobenzene	4.577	284	6M6	5.603	ng/ml	
25) Pentachlorophenol	0.000		0	N.D. d		

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV128\240305\
Data File : 10579-09.D
Acq On : 05 Mar 2024 01:34 pm
Operator : SV128:jjw
Sample : L2410579-09,32,,ah
Misc : WG1892213,wg1892049,ical20676
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Mar 05 14:12:29 2024
Quant Method : I:\8270sim\sv128\240305\SIM-LVI_231211_sv128.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Mar 05 07:15:56 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv128\240305\ccv0305a.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Phenanthrene	4.811	178	34M6	7.813	ng/ml	
27) Anthracene	4.840	178	20M4	4.757	ng/ml	
28) Fluoranthene	5.502	202	31M4	6.484	ng/ml	
29) Pyrene	5.636	202	27M1	5.459	ng/ml	
32) Benzo[a]anthracene	6.386	228	66M4	4.659	ng/ml	
34) Chrysene	6.405	228	20M4	3.527	ng/ml	
37) Benzo[b]fluoranthene	7.288	252	18M7	3.140	ng/ml	
38) Benzo[k]fluoranthene	7.313	252	13M3	2.437	ng/ml	
39) Benzo[a]pyrene	0.000		0	N.D.	d	
40) Indeno[1,2,3-cd]pyrene	0.000		0	N.D.	d	
41) Dibenzo[a,h]anthracene	0.000		0	N.D.	d	
42) Benzo[g,h,i]perylene	0.000		0	N.D.	d	

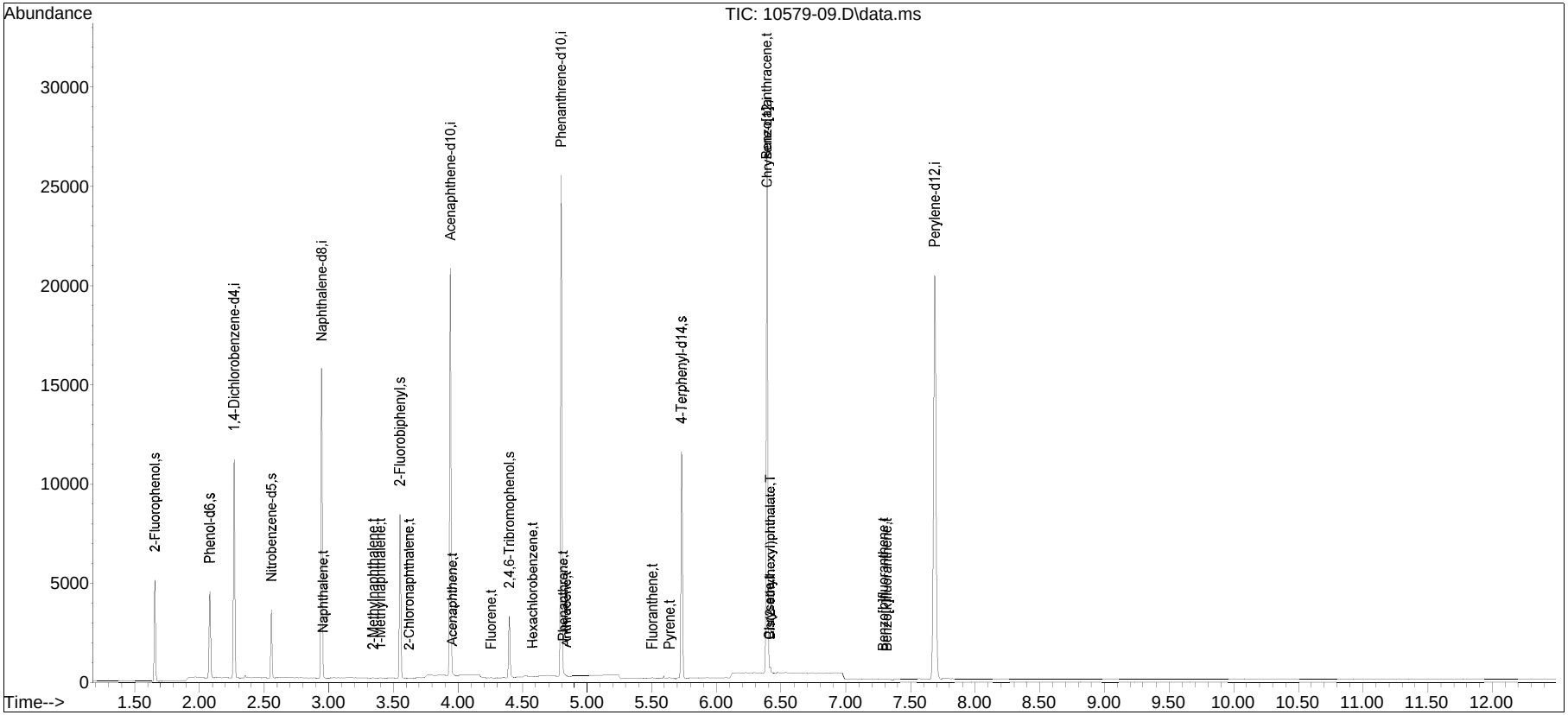
(#) = qualifier out of range (m) = manual integration (+) = signals summed

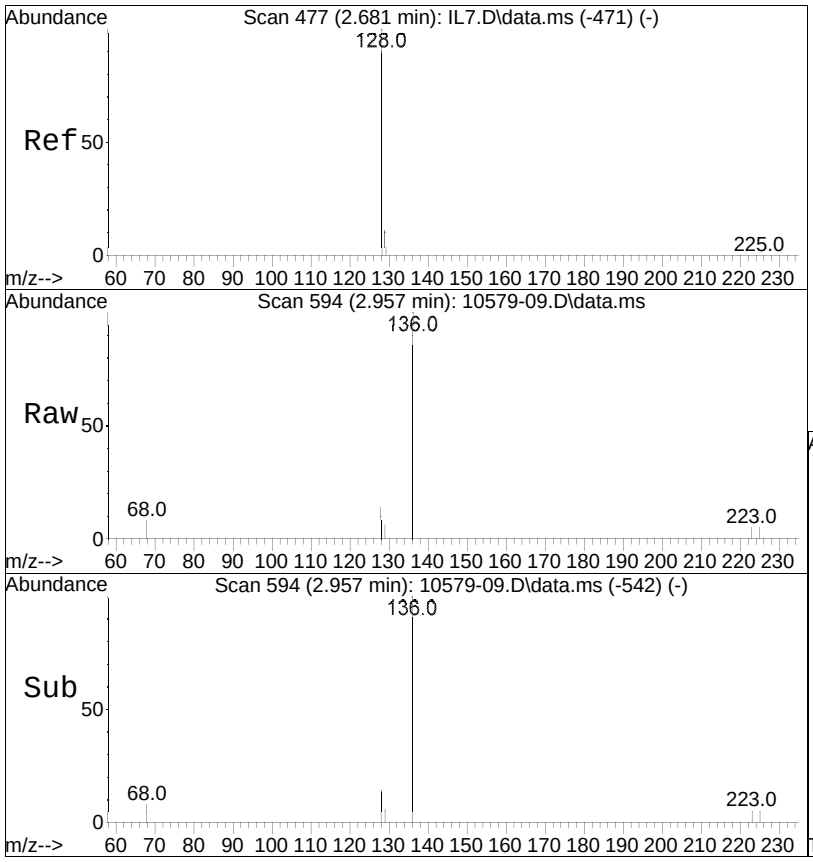
Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV128\240305\
Data File : 10579-09.D
Acq On : 05 Mar 2024 01:34 pm
Operator : SV128:jjw
Sample : L2410579-09,32,,ah
Misc : WG1892213,wg1892049,ical20676
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Mar 05 14:12:29 2024
Quant Method : I:\8270sim\sv128\240305\SIM-LVI_231211_sv128.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Mar 05 07:15:56 2024
Response via : Initial Calibration

Sub List : DEFAULT - All compounds listedv0305a.D•

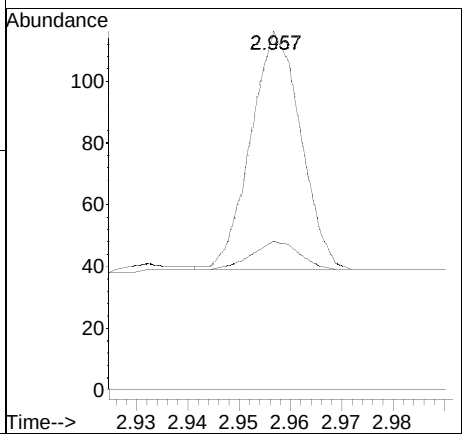


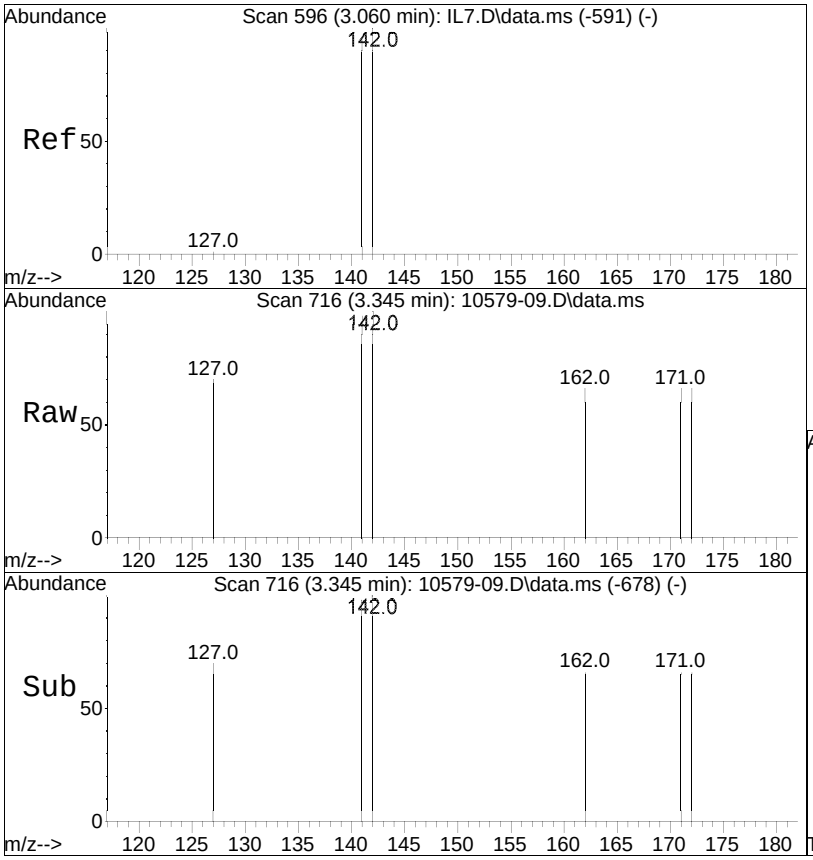


#9
Naphthalene
Concen: 19.41 ng/ml
RT: 2.957 min Scan# 594
Delta R.T. -0.000 min
Lab File: 10579-09.D
Acq: 05 Mar 2024 01:34 pm

Tgt Ion:128 Resp: 52

Ion	Ratio	Lower	Upper
128	100		
129	11.5	8.8	13.2
127	0.0	0.0	0.0

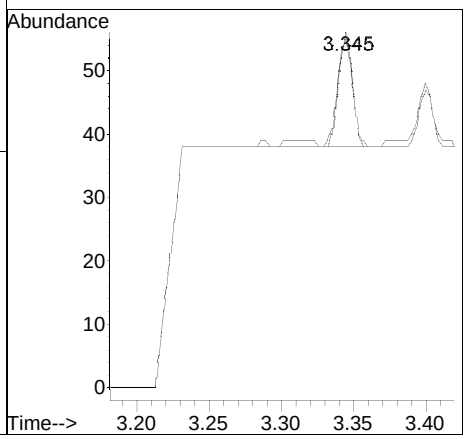


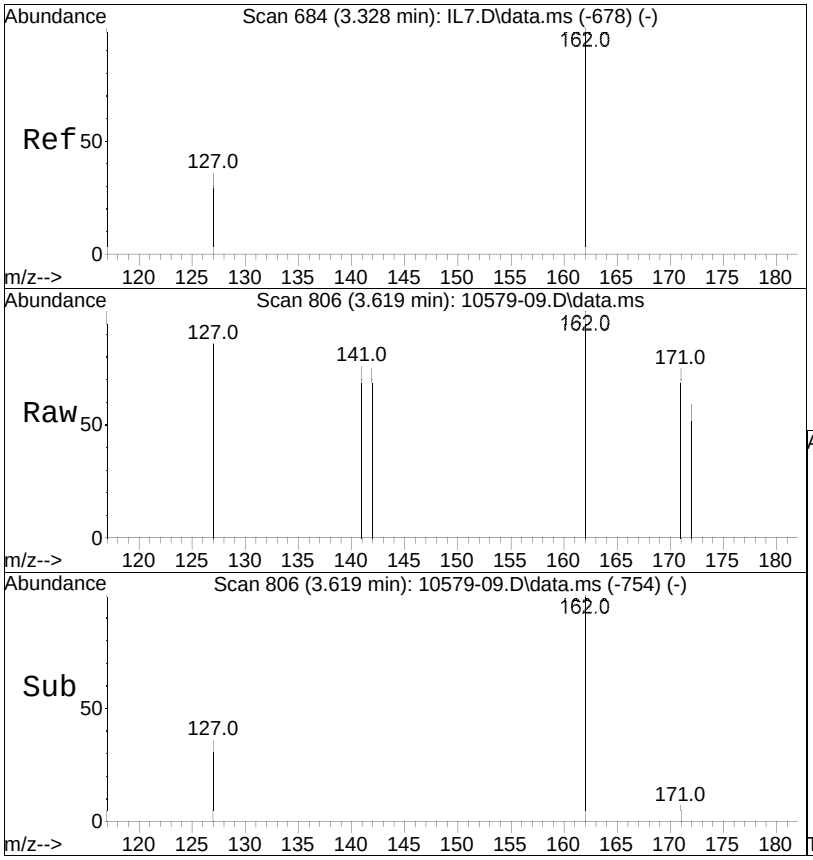


#11
2-Methylnaphthalene
Concen: 7.01 ng/ml
RT: 3.345 min Scan# 716
Delta R.T. -0.000 min
Lab File: 10579-09.D
Acq: 05 Mar 2024 01:34 pm

Tgt Ion:142 Resp: 12

Ion	Ratio	Lower	Upper
142	100		
141	100.0	75.9	113.9

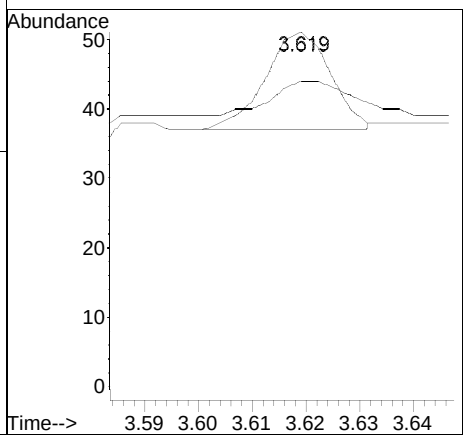


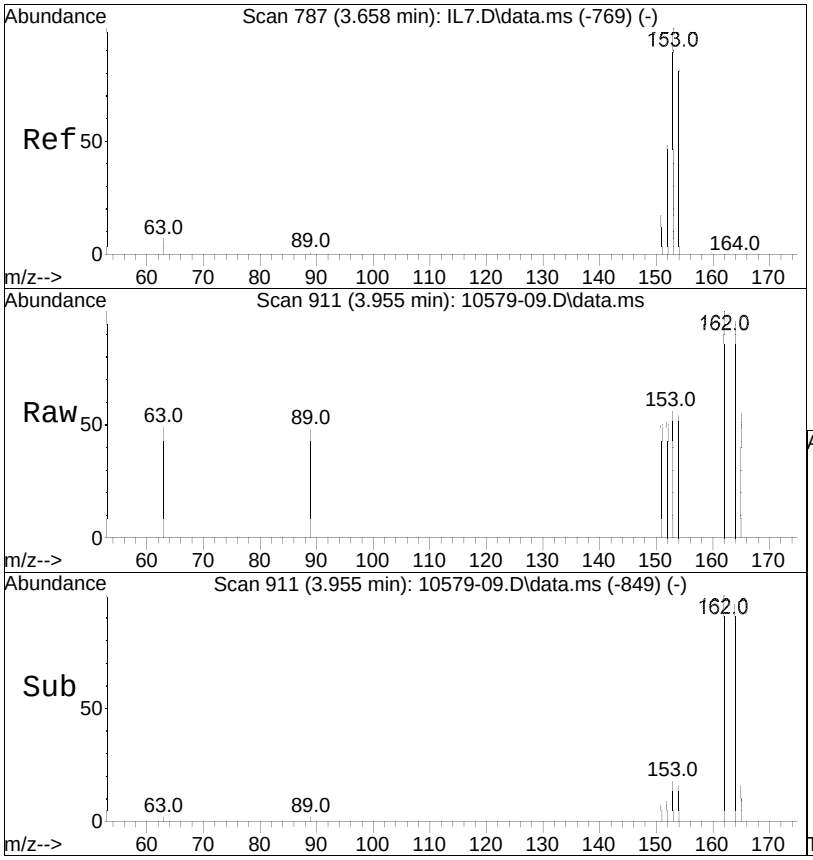


#14
2-Chloronaphthalene
Concen: 6.44 ng/ml M1
RT: 3.619 min Scan# 806
Delta R.T. -0.003 min
Lab File: 10579-09.D
Acq: 05 Mar 2024 01:34 pm

Tgt Ion:162 Resp: 12

Ion	Ratio	Lower	Upper
162	100		
127	41.7	29.3	43.9

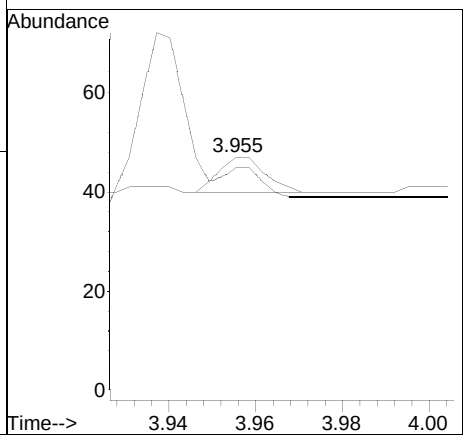


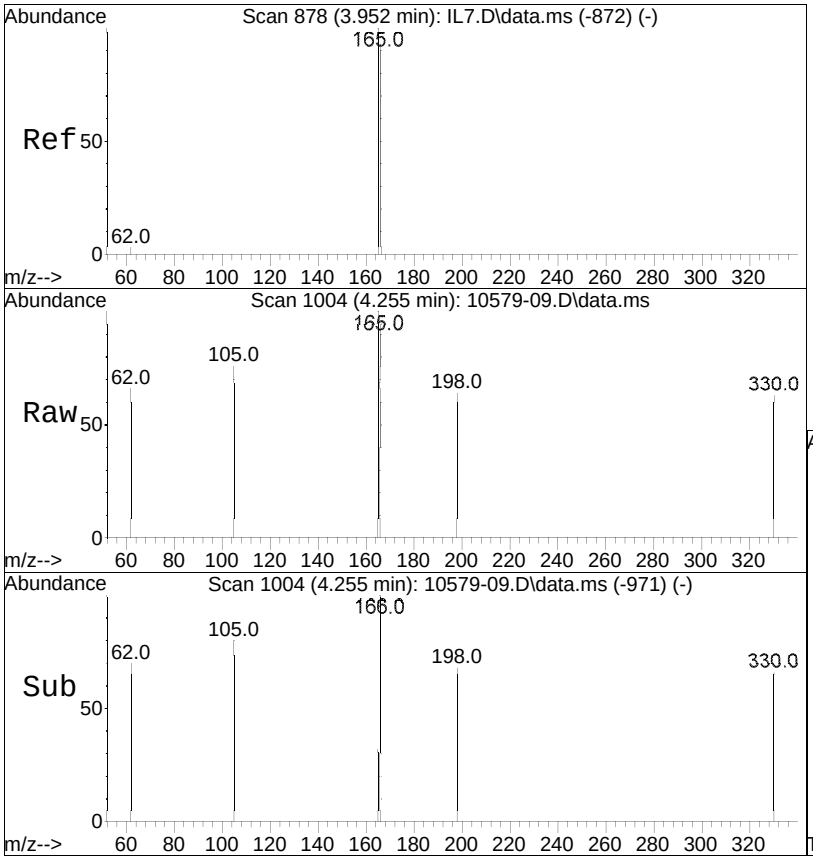


#18
Acenaphthene
Concen: 2.27 ng/ml M7
RT: 3.955 min Scan# 911
Delta R.T. -0.006 min
Lab File: 10579-09.D
Acq: 05 Mar 2024 01:34 pm

Tgt Ion:153 Resp: 5

Ion	Ratio	Lower	Upper
153	100		
154	80.0	65.8	98.6

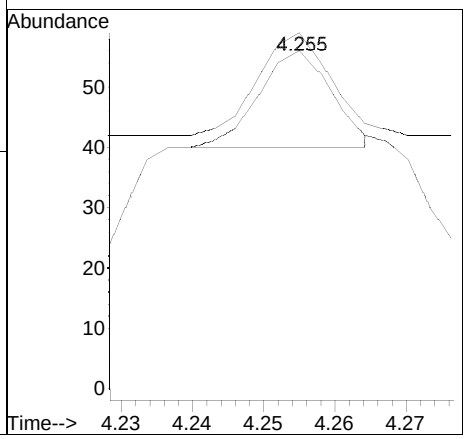


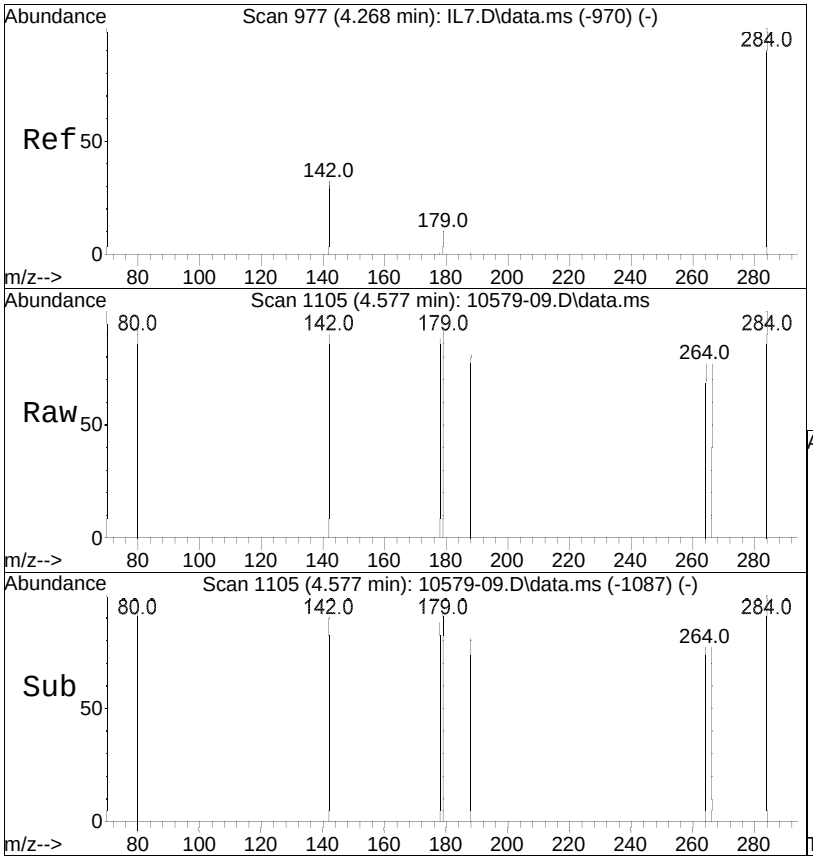


#20
Fluorene
Concen: 4.95 ng/ml M6
RT: 4.255 min Scan# 1004
Delta R.T. -0.003 min
Lab File: 10579-09.D
Acq: 05 Mar 2024 01:34 pm

Tgt Ion:166 Resp: 11

Ion	Ratio	Lower	Upper
166	100		
165	109.1	85.7	128.5

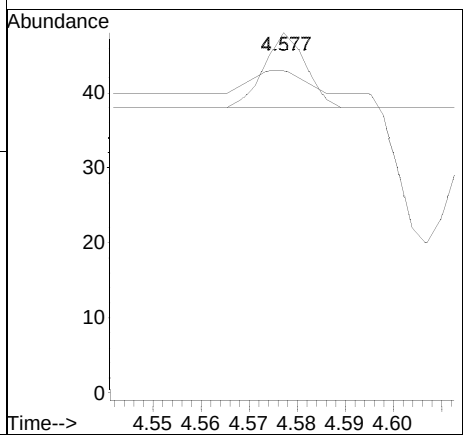


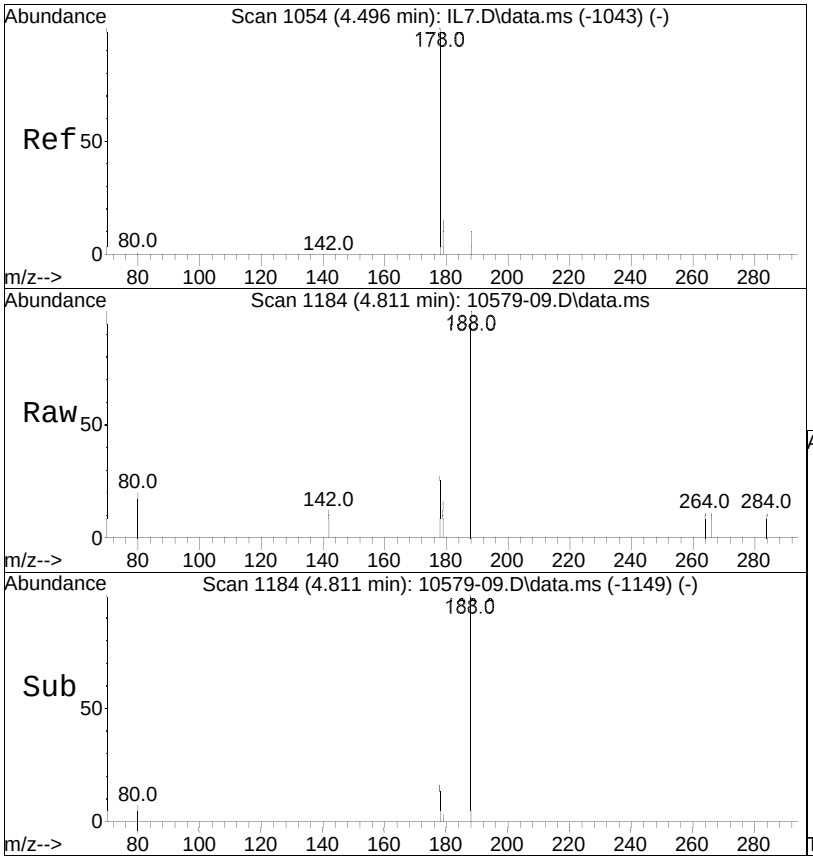


#24
Hexachlorobenzene
Concen: 5.60 ng/ml M6
RT: 4.577 min Scan# 1105
Delta R.T. -0.006 min
Lab File: 10579-09.D
Acq: 05 Mar 2024 01:34 pm

Tgt Ion:284 Resp: 6

Ion	Ratio	Lower	Upper
284	100		
142	33.3	23.9	35.9

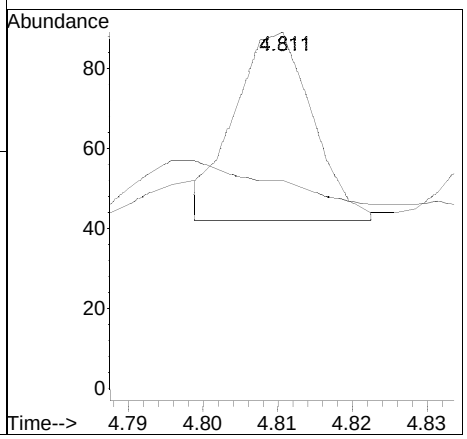


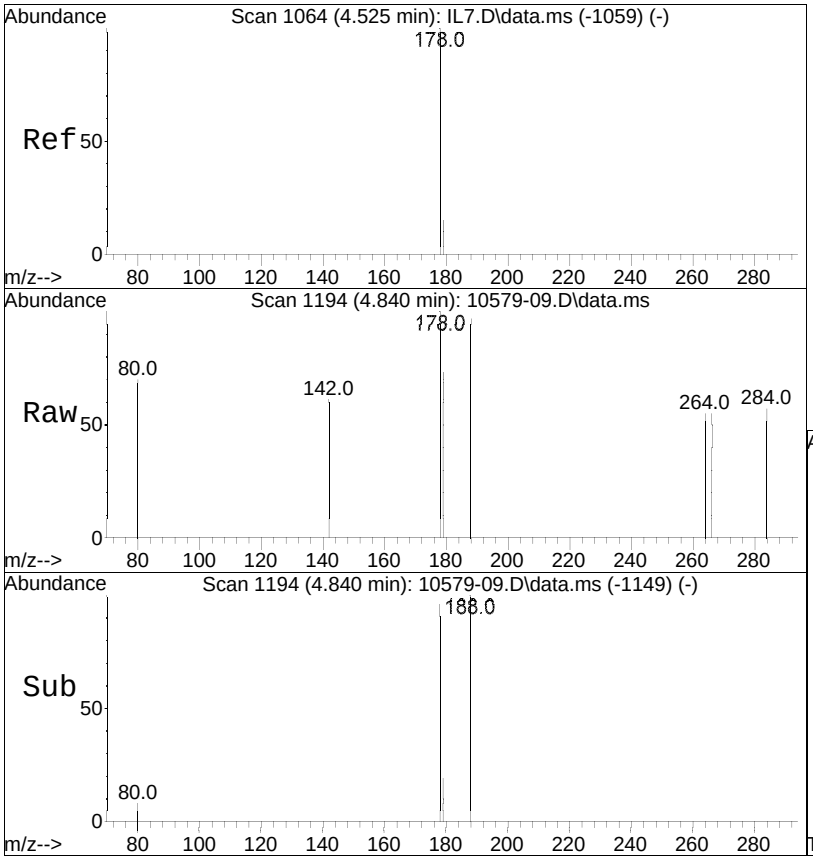


#26
Phenanthrene
Concen: 7.81 ng/ml M6
RT: 4.811 min Scan# 1184
Delta R.T. -0.003 min
Lab File: 10579-09.D
Acq: 05 Mar 2024 01:34 pm

Tgt Ion:178 Resp: 34

Ion	Ratio	Lower	Upper
178	100		
179	14.7	12.2	18.4

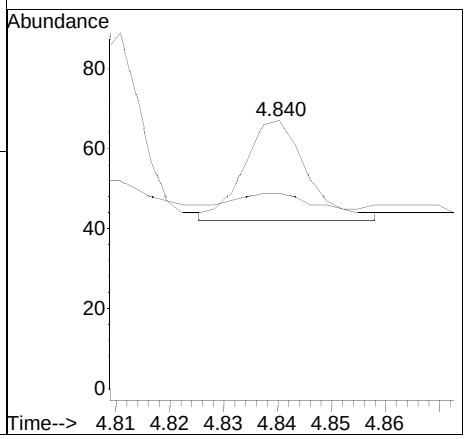


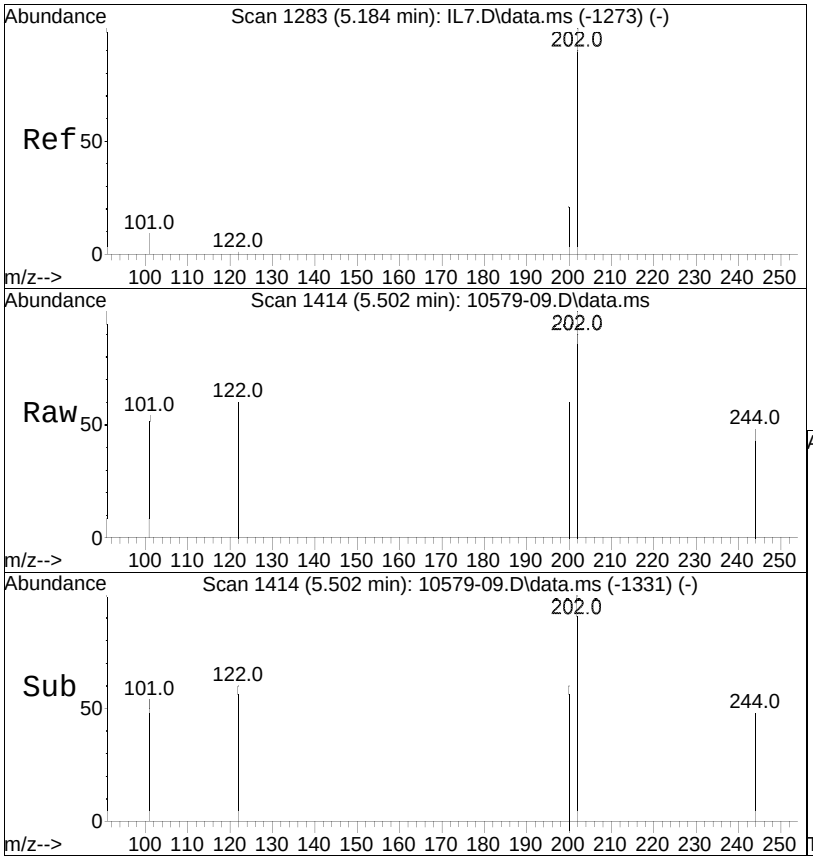


#27
Anthracene
Concen: 4.76 ng/ml M4
RT: 4.840 min Scan# 1194
Delta R.T. -0.003 min
Lab File: 10579-09.D
Acq: 05 Mar 2024 01:34 pm

Tgt Ion:178 Resp: 20

Ion	Ratio	Lower	Upper
178	100		
179	15.0	12.2	18.2

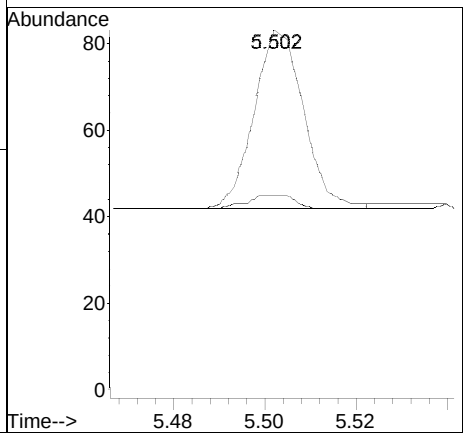


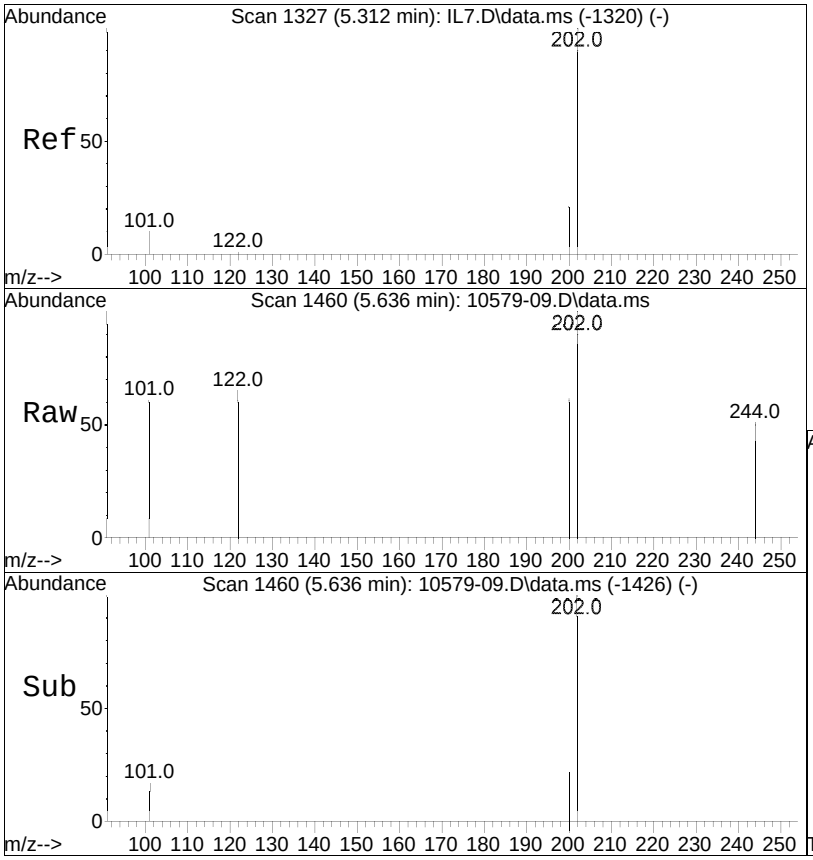


#28
Fluoranthene
Concen: 6.48 ng/ml M4
RT: 5.502 min Scan# 1414
Delta R.T. -0.009 min
Lab File: 10579-09.D
Acq: 05 Mar 2024 01:34 pm

Tgt Ion:202 Resp: 31

Ion	Ratio	Lower	Upper
202	100		
101	9.7	7.2	10.8

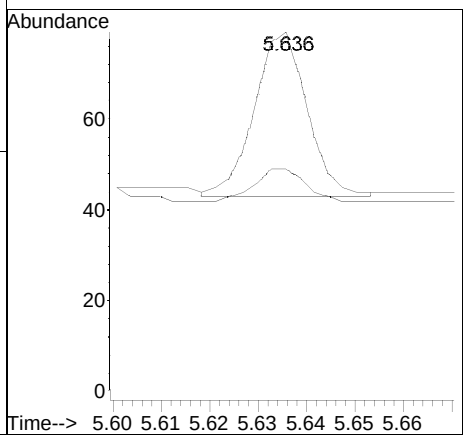


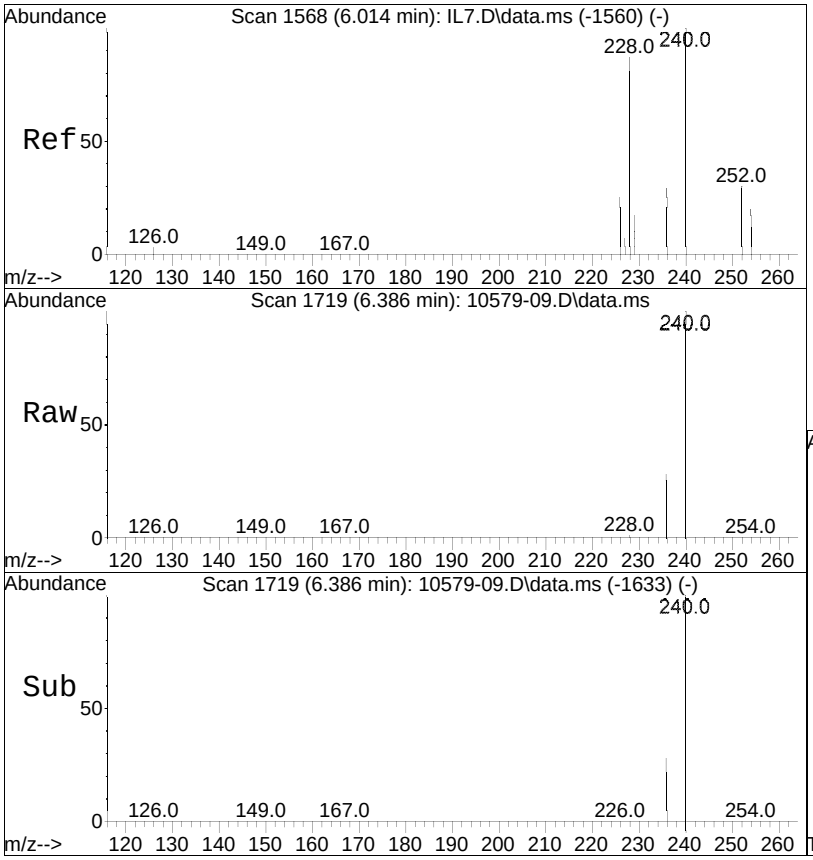


#29
Pyrene
Concen: 5.46 ng/ml M1
RT: 5.636 min Scan# 1460
Delta R.T. -0.006 min
Lab File: 10579-09.D
Acq: 05 Mar 2024 01:34 pm

Tgt Ion:202 Resp: 27

Ion	Ratio	Lower	Upper
202	100		
200	18.5	17.7	26.5

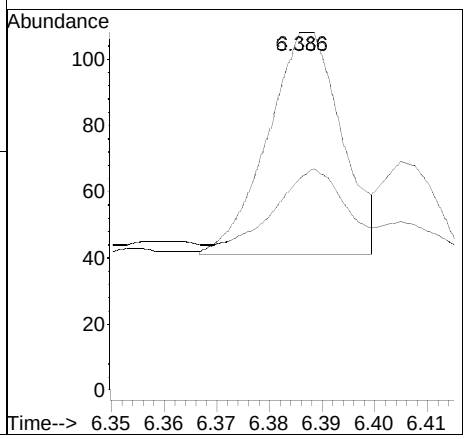


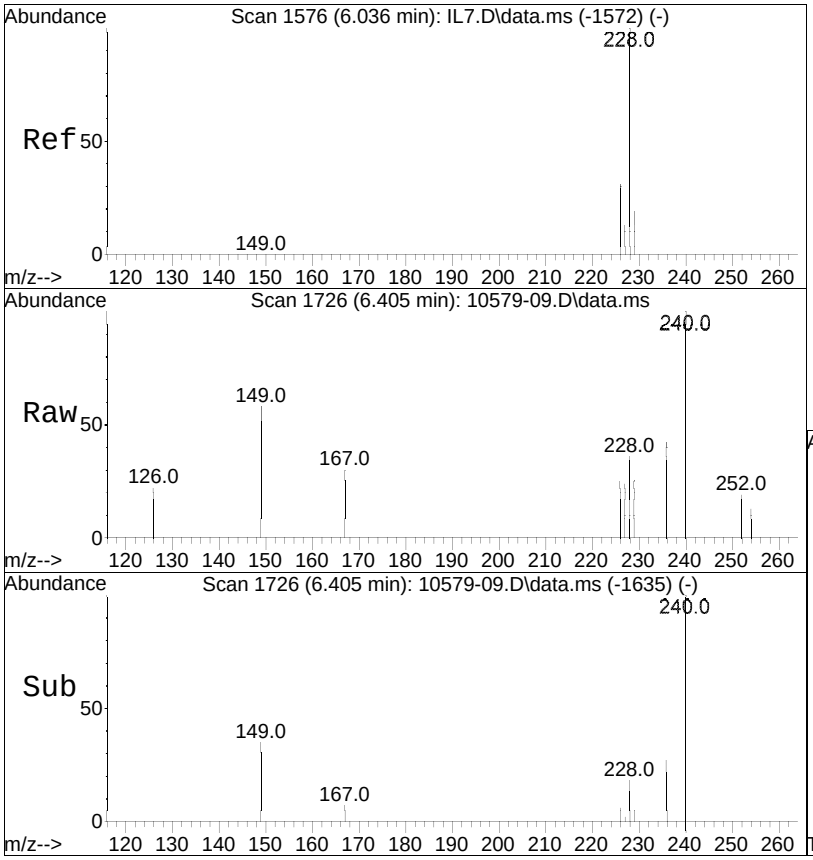


#32
Benzo[a]anthracene
Concen: 4.66 ng/ml M4
RT: 6.386 min Scan# 1719
Delta R.T. -0.003 min
Lab File: 10579-09.D
Acq: 05 Mar 2024 01:34 pm

Tgt Ion:228 Resp: 66

Ion	Ratio	Lower	Upper
228	100		
229	30.3	15.7	23.5#

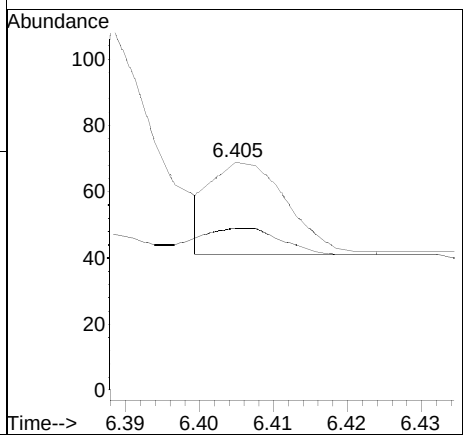


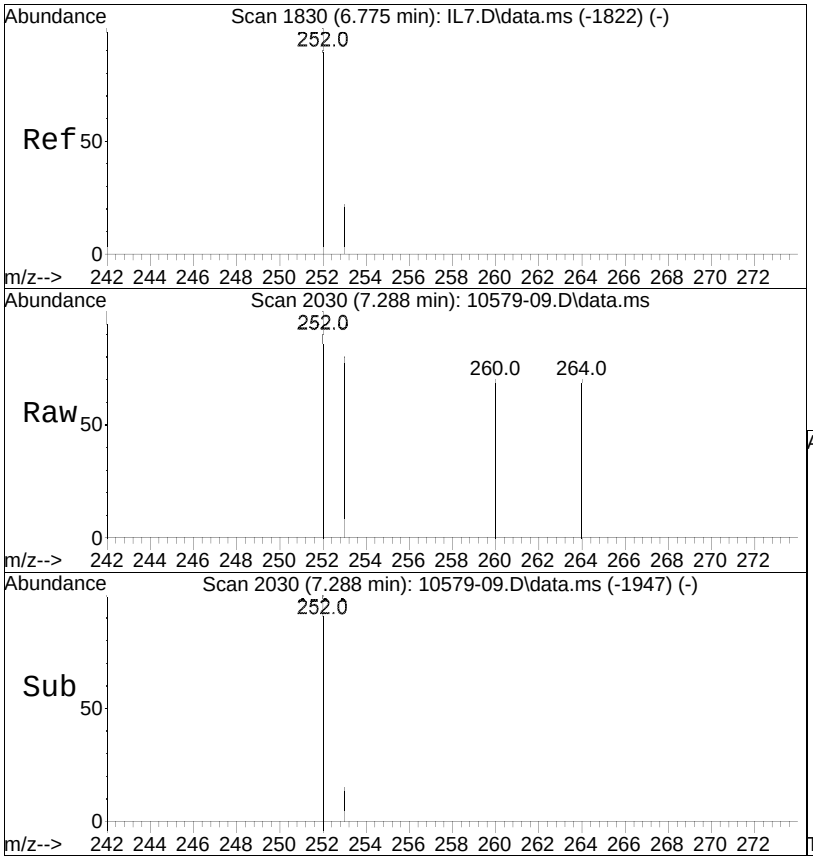


#34
Chrysene
Concen: 3.53 ng/ml M4
RT: 6.405 min Scan# 1726
Delta R.T. -0.011 min
Lab File: 10579-09.D
Acq: 05 Mar 2024 01:34 pm

Tgt Ion:228 Resp: 20

Ion	Ratio	Lower	Upper
228	100		
226	30.0	24.6	36.8

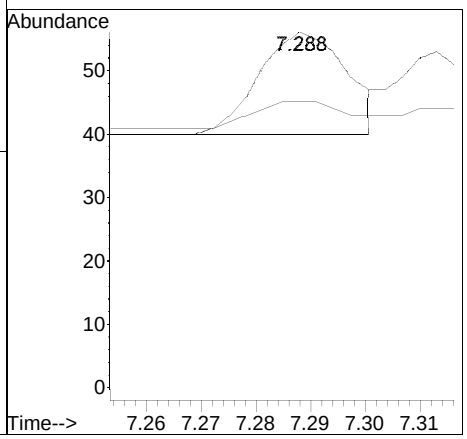


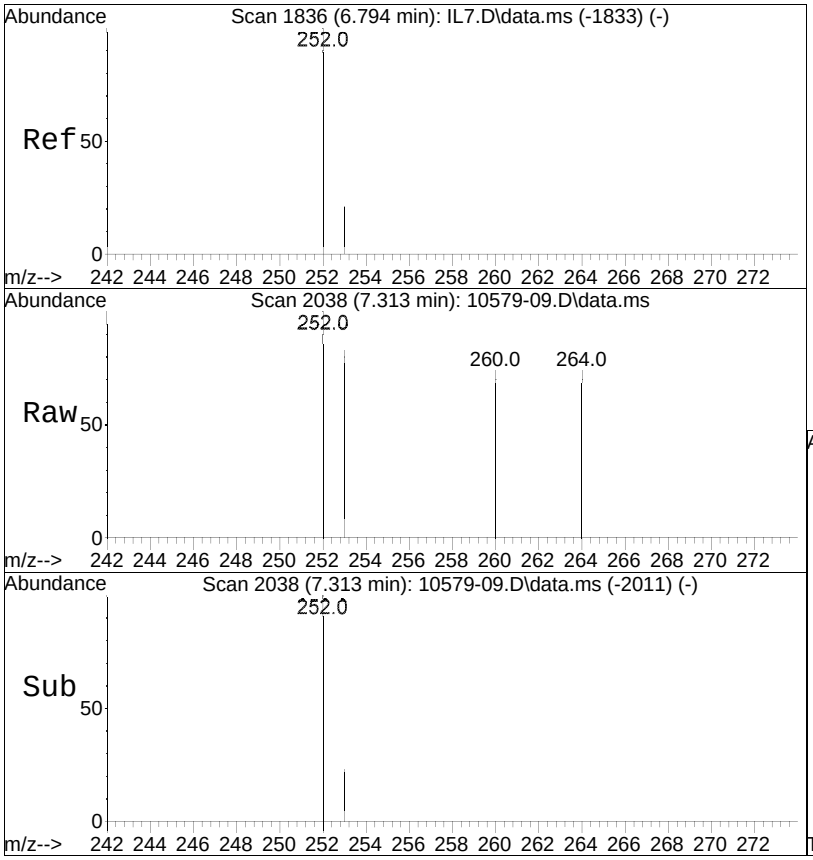


#37
Benzo[b]fluoranthene
Concen: 3.14 ng/ml M7
RT: 7.288 min Scan# 2030
Delta R.T. -0.016 min
Lab File: 10579-09.D
Acq: 05 Mar 2024 01:34 pm

Tgt Ion:252 Resp: 18

Ion	Ratio	Lower	Upper
252	100		
253	22.2	17.1	25.7

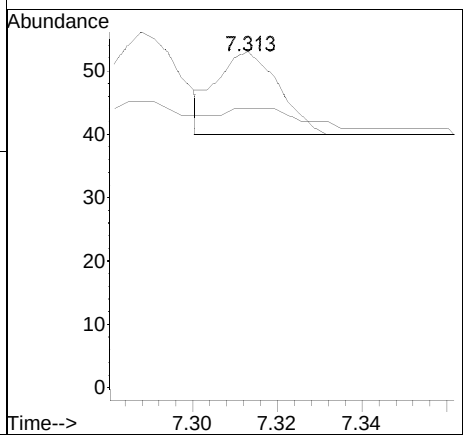




#38
Benzo[k]fluoranthene
Concen: 2.44 ng/ml M3
RT: 7.313 min Scan# 2038
Delta R.T. -0.016 min
Lab File: 10579-09.D
Acq: 05 Mar 2024 01:34 pm

Tgt Ion:252 Resp: 13

Ion	Ratio	Lower	Upper
252	100		
253	23.1	17.3	25.9

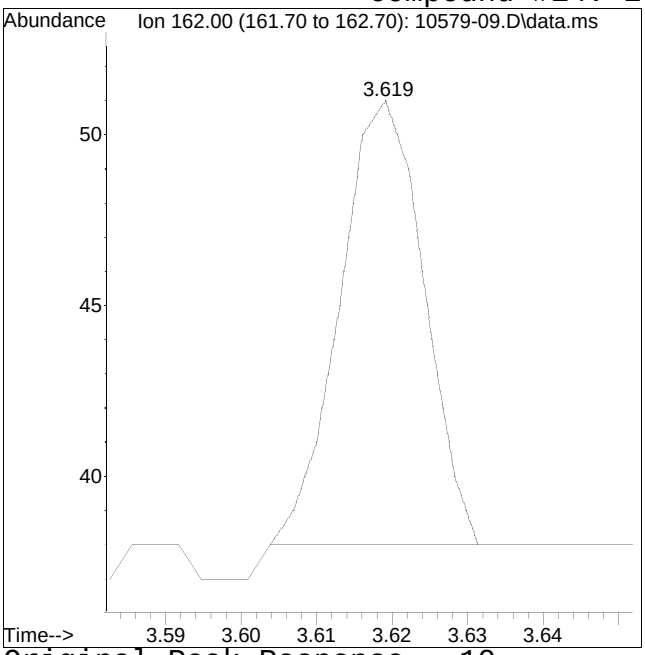


Manual Integration Report

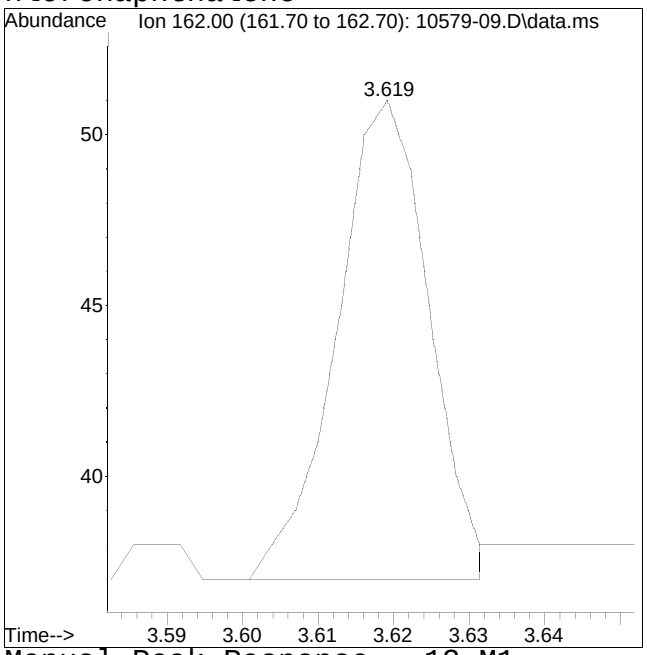
Data Path : I:\8270SIM\SV128\240305\
Data File : 10579-09.D
Date Inj'd : 3/5/2024 1:34 pm
Sample : L2410579-09,32,,ah

QMethod : SIM-LVI_231211_sv128.M
Operator : SV128:jjw
Instrument : SV128
Quant Date : 3/5/2024 1:49 pm

Compound #14: 2-Chloronaphthalene



Original Peak Response = 10



Manual Peak Response = 12 M1

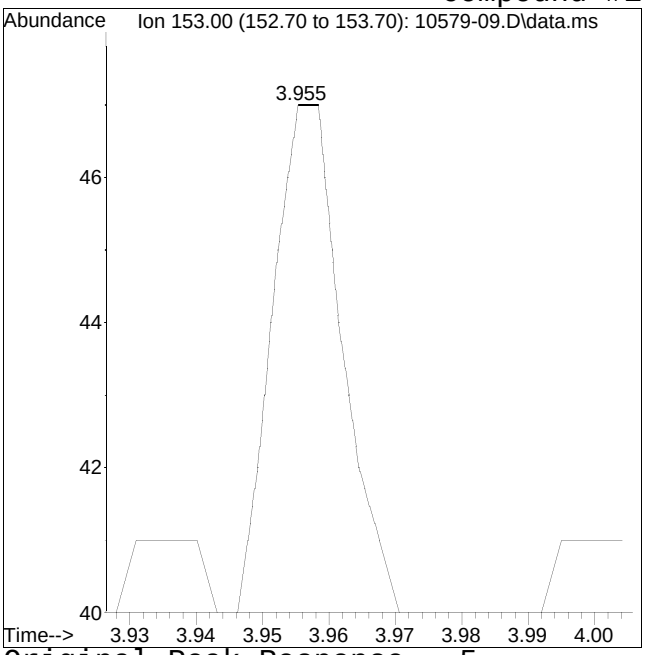
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

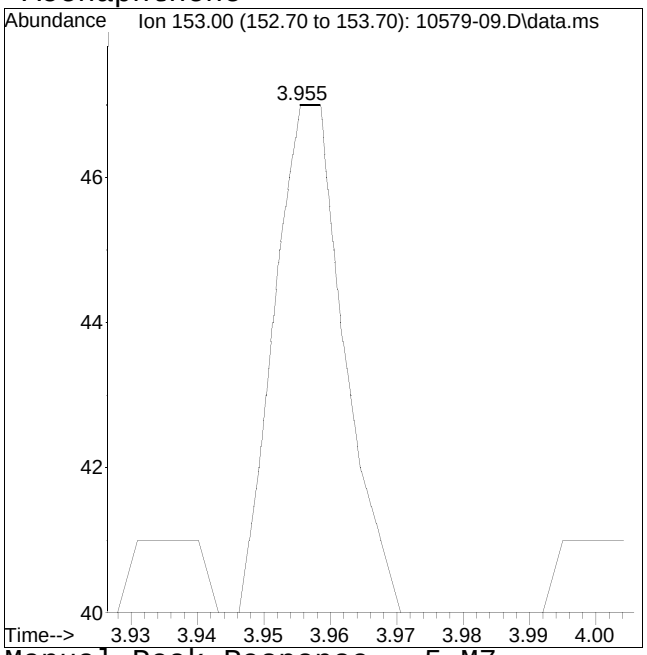
Data Path : I:\8270SIM\SV128\240305\
Data File : 10579-09.D
Date Inj'd : 3/5/2024 1:34 pm
Sample : L2410579-09,32,,ah

QMethod : SIM-LVI_231211_sv128.M
Operator : SV128:jjw
Instrument : SV128
Quant Date : 3/5/2024 1:49 pm

Compound #18: Acenaphthene



Original Peak Response = 5



Manual Peak Response = 5 M7

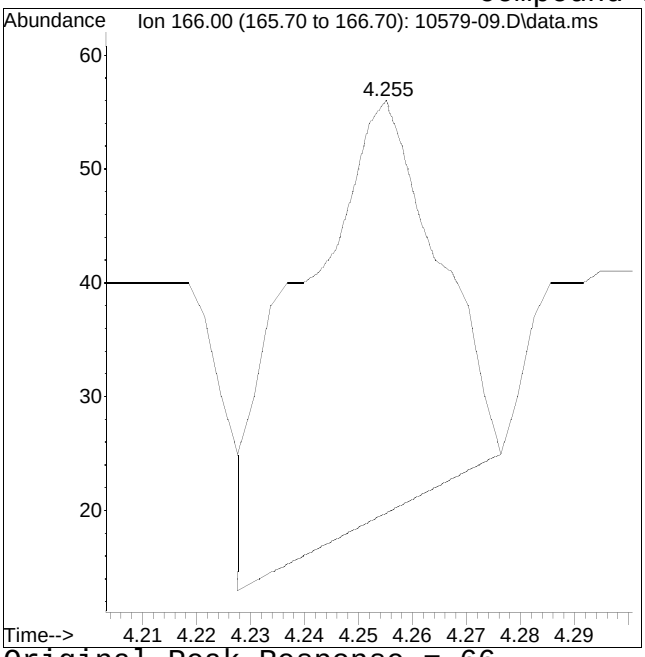
M7 = A qualifier ion was manually integrated (only for GC/MS data).

Manual Integration Report

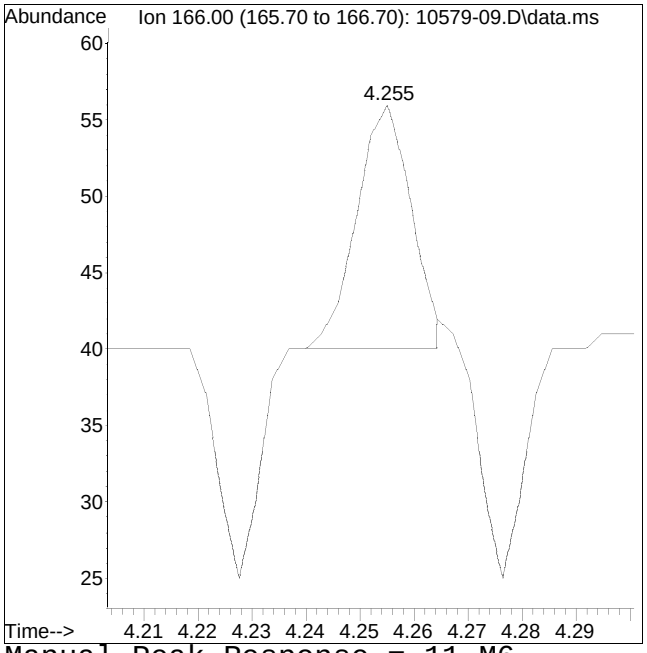
Data Path : I:\8270SIM\SV128\240305\
Data File : 10579-09.D
Date Inj'd : 3/5/2024 1:34 pm
Sample : L2410579-09,32,,ah

QMethod : SIM-LVI_231211_sv128.M
Operator : SV128:jjw
Instrument : SV128
Quant Date : 3/5/2024 1:49 pm

Compound #20: Fluorene



Original Peak Response = 66



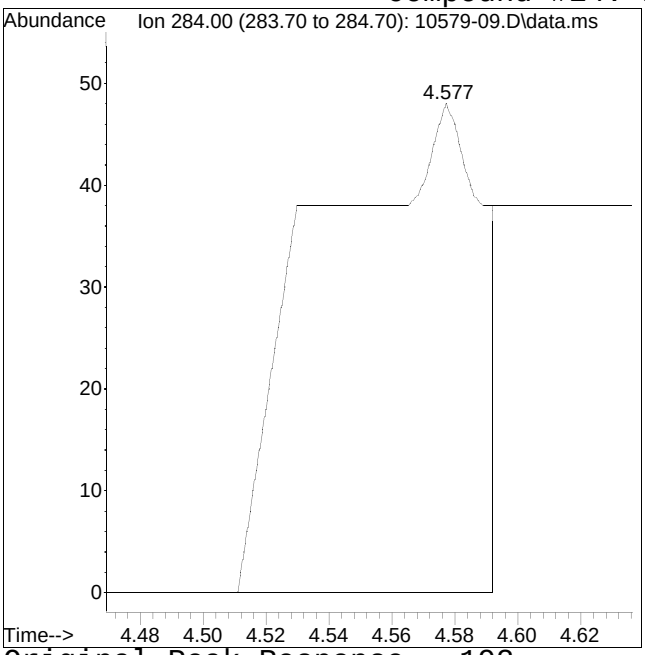
Manual Peak Response = 11 M6

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

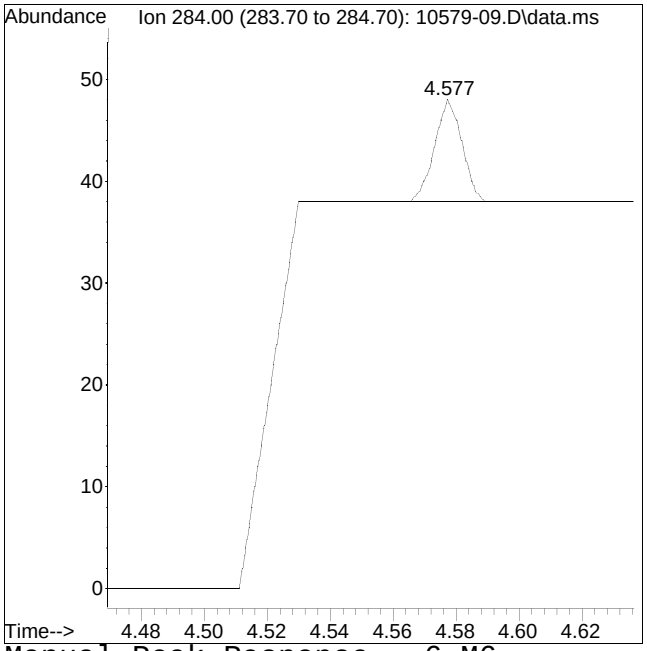
Manual Integration Report

Data Path : I:\8270SIM\SV128\240305\ QMethod : SIM-LVI_231211_sv128.M
Data File : 10579-09.D Operator : SV128:jjw
Date Inj'd : 3/5/2024 1:34 pm Instrument : SV128
Sample : L2410579-09,32,,ah Quant Date : 3/5/2024 1:49 pm

Compound #24: Hexachlorobenzene



Original Peak Response = 192



Manual Peak Response = 6 M6

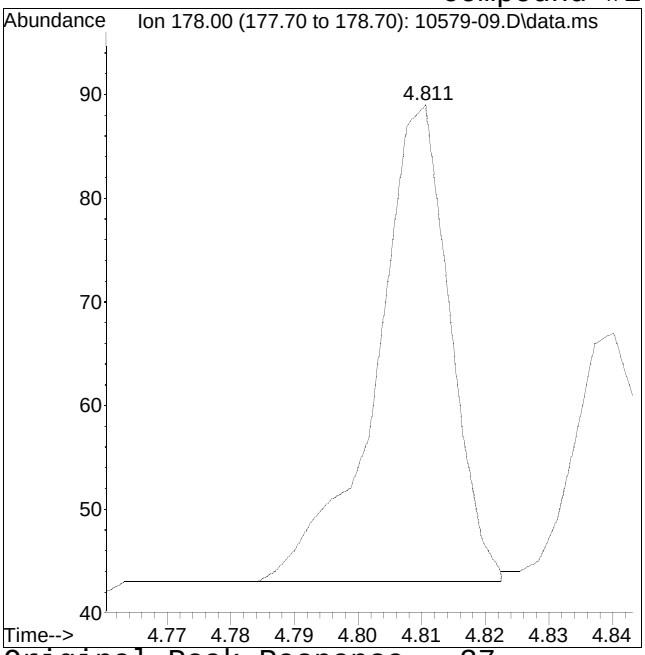
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

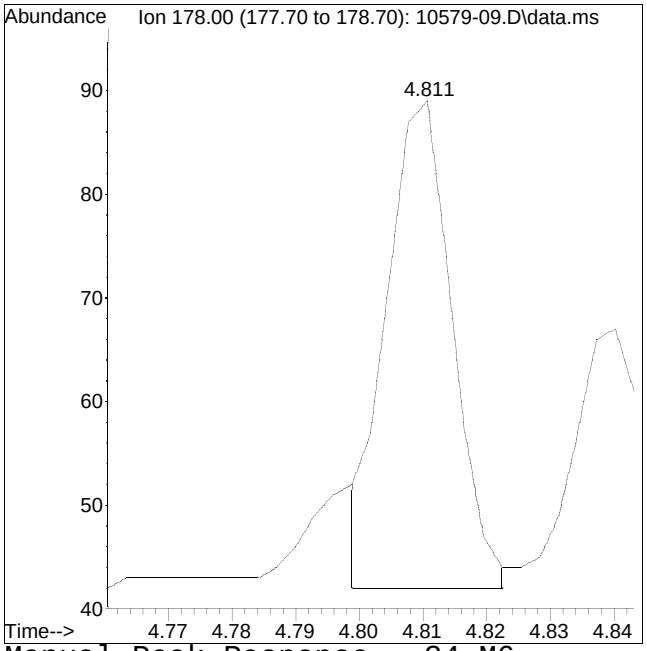
Data Path : I:\8270SIM\SV128\240305\
Data File : 10579-09.D
Date Inj'd : 3/5/2024 1:34 pm
Sample : L2410579-09,32,,ah

QMethod : SIM-LVI_231211_sv128.M
Operator : SV128:jjw
Instrument : SV128
Quant Date : 3/5/2024 1:49 pm

Compound #26: Phenanthrene



Original Peak Response = 37



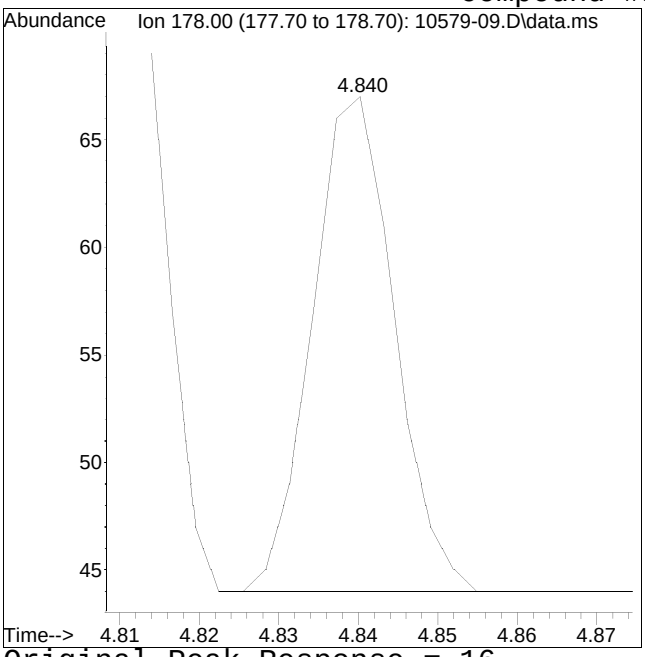
Manual Peak Response = 34 M6

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

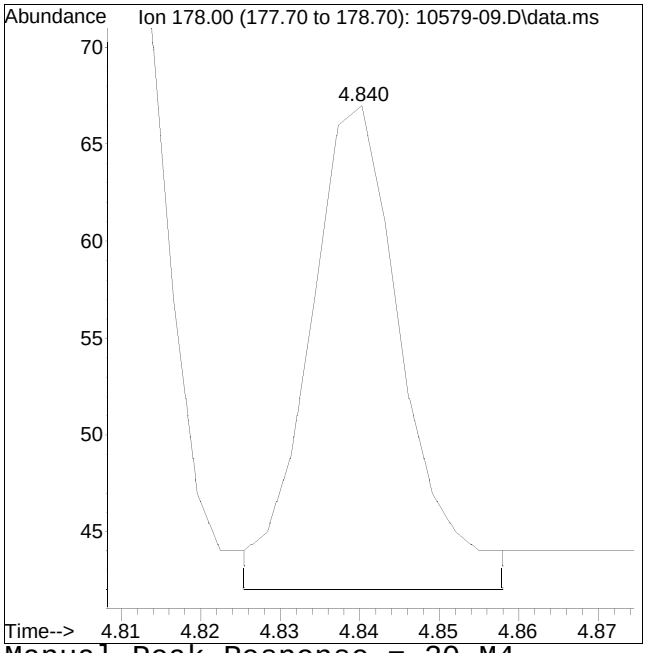
Manual Integration Report

Data Path : I:\8270SIM\SV128\240305\ QMethod : SIM-LVI_231211_sv128.M
Data File : 10579-09.D Operator : SV128:jjw
Date Inj'd : 3/5/2024 1:34 pm Instrument : SV128
Sample : L2410579-09,32,,ah Quant Date : 3/5/2024 1:49 pm

Compound #27: Anthracene



Original Peak Response = 16



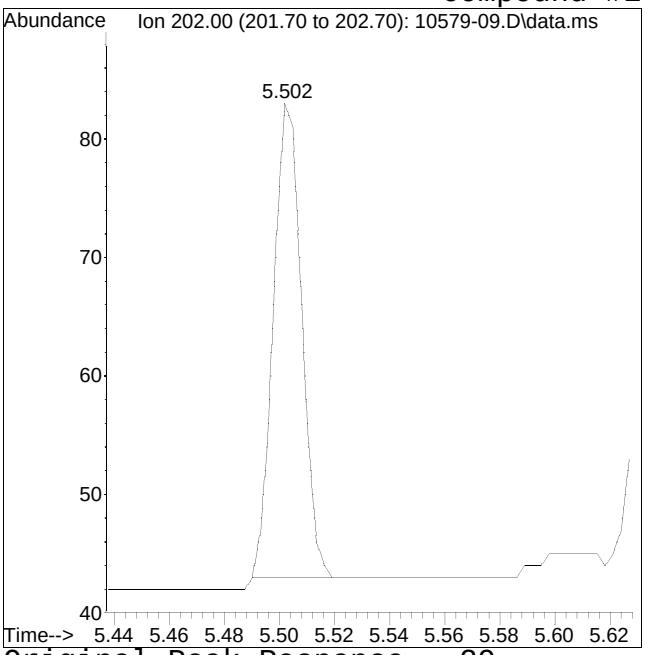
Manual Peak Response = 20 M4

M4 = Poor automated baseline construction.

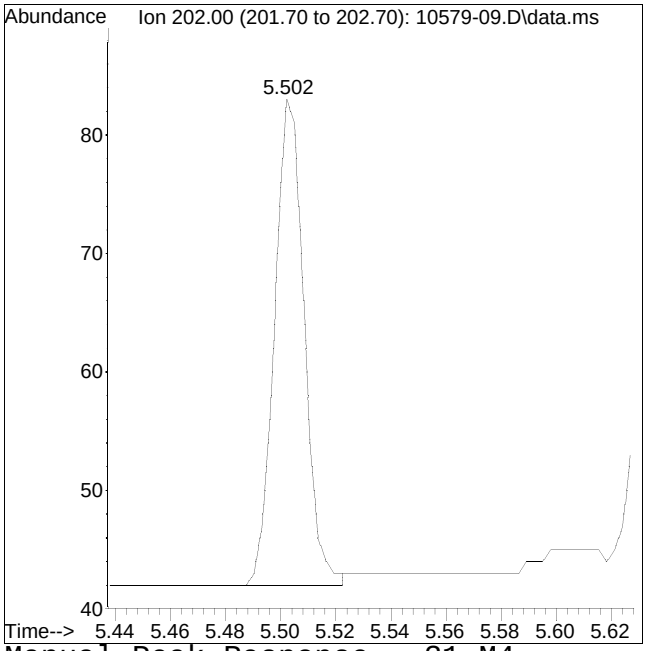
Manual Integration Report

Data Path : I:\8270SIM\SV128\240305\ QMethod : SIM-LVI_231211_sv128.M
Data File : 10579-09.D Operator : SV128:jjw
Date Inj'd : 3/5/2024 1:34 pm Instrument : SV128
Sample : L2410579-09,32,,ah Quant Date : 3/5/2024 1:49 pm

Compound #28: Fluoranthene



Original Peak Response = 29



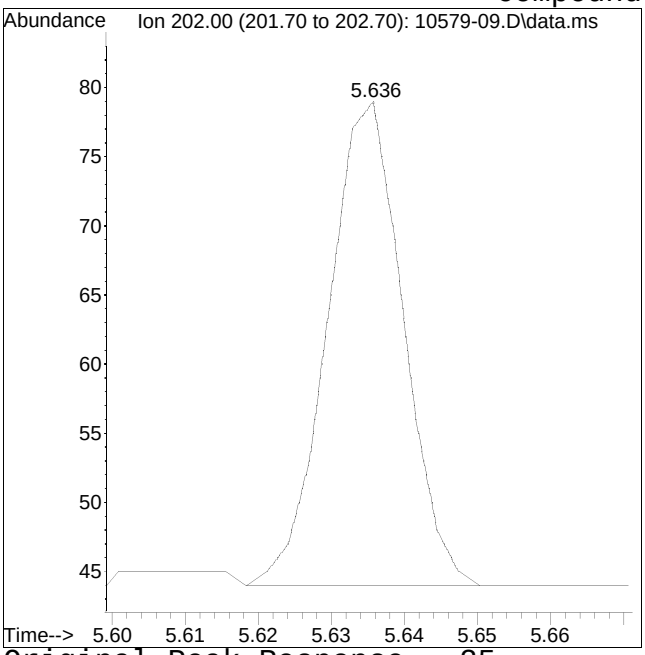
Manual Peak Response = 31 M4

M4 = Poor automated baseline construction.

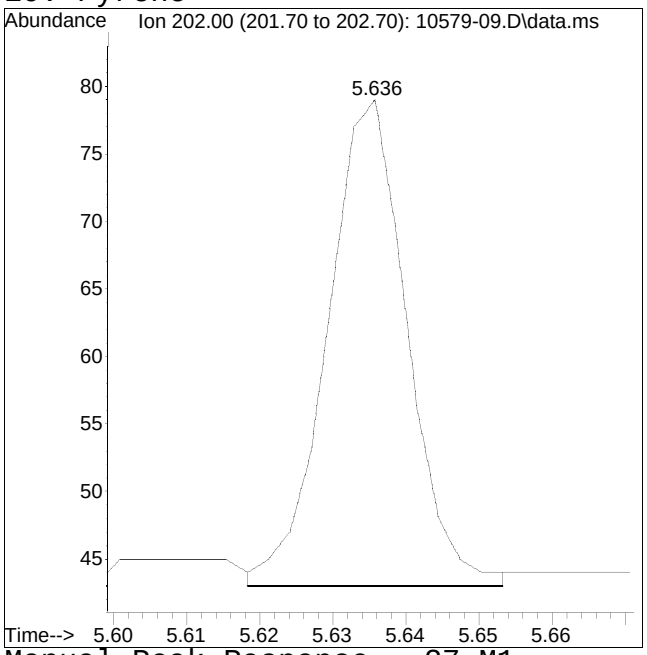
Manual Integration Report

Data Path : I:\8270SIM\SV128\240305\ QMethod : SIM-LVI_231211_sv128.M
Data File : 10579-09.D Operator : SV128:jjw
Date Inj'd : 3/5/2024 1:34 pm Instrument : SV128
Sample : L2410579-09,32,,ah Quant Date : 3/5/2024 1:49 pm

Compound #29: Pyrene



Original Peak Response = 25



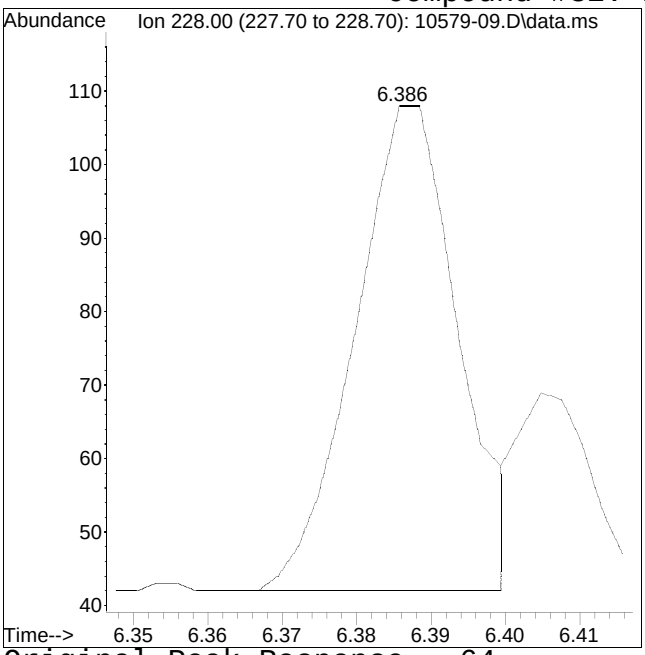
Manual Peak Response = 27 M1

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

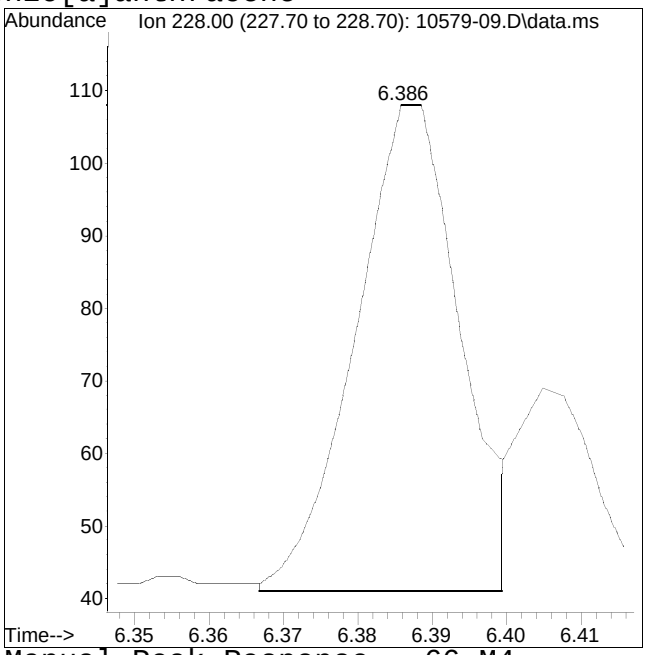
Manual Integration Report

Data Path : I:\8270SIM\SV128\240305\ QMethod : SIM-LVI_231211_sv128.M
Data File : 10579-09.D Operator : SV128:jjw
Date Inj'd : 3/5/2024 1:34 pm Instrument : SV128
Sample : L2410579-09,32,,ah Quant Date : 3/5/2024 1:49 pm

Compound #32: Benzo[a]anthracene



Original Peak Response = 64



Manual Peak Response = 66 M4

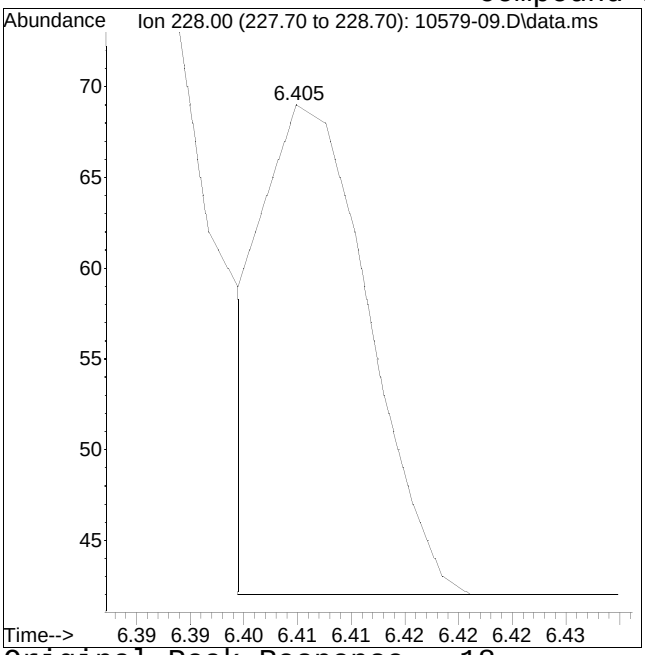
M4 = Poor automated baseline construction.

Manual Integration Report

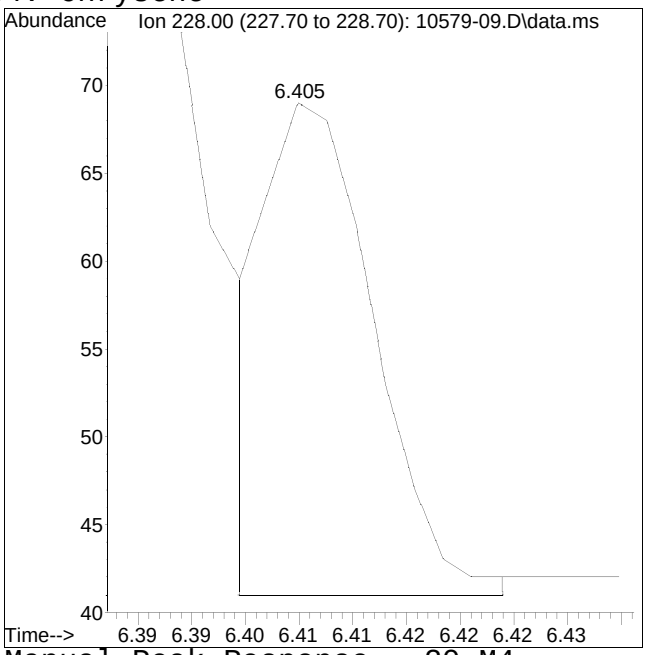
Data Path : I:\8270SIM\SV128\240305\
Data File : 10579-09.D
Date Inj'd : 3/5/2024 1:34 pm
Sample : L2410579-09,32,,ah

QMethod : SIM-LVI_231211_sv128.M
Operator : SV128:jjw
Instrument : SV128
Quant Date : 3/5/2024 1:49 pm

Compound #34: Chrysene



Original Peak Response = 18



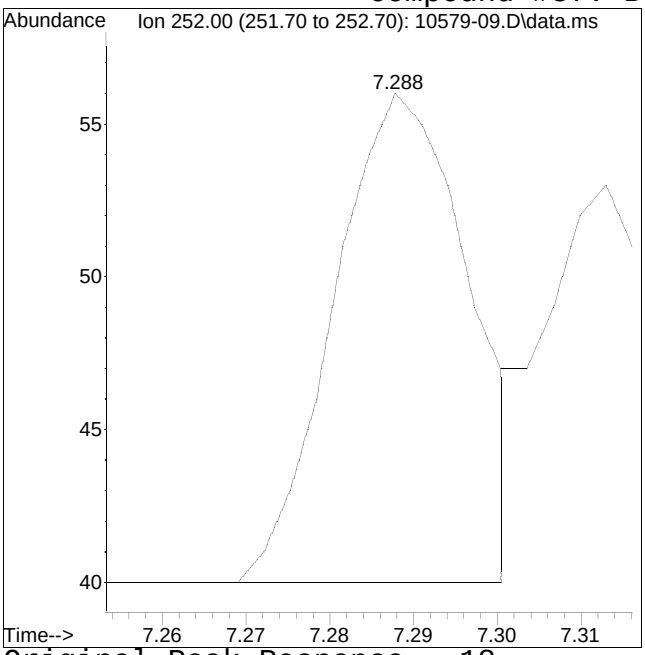
Manual Peak Response = 20 M4

M4 = Poor automated baseline construction.

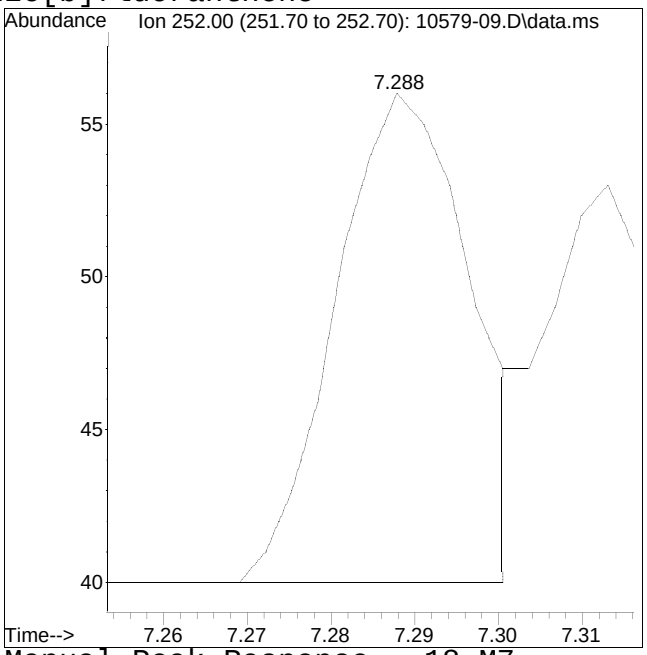
Manual Integration Report

Data Path : I:\8270SIM\SV128\240305\ QMethod : SIM-LVI_231211_sv128.M
Data File : 10579-09.D Operator : SV128:jjw
Date Inj'd : 3/5/2024 1:34 pm Instrument : SV128
Sample : L2410579-09,32,,ah Quant Date : 3/5/2024 1:49 pm

Compound #37: Benzo[b]fluoranthene



Original Peak Response = 18



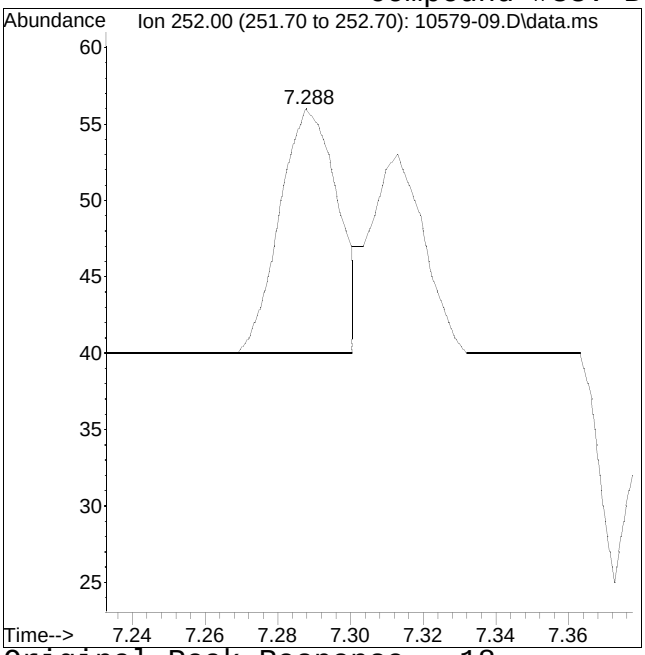
Manual Peak Response = 18 M7

M7 = A qualifier ion was manually integrated (only for GC/MS data).

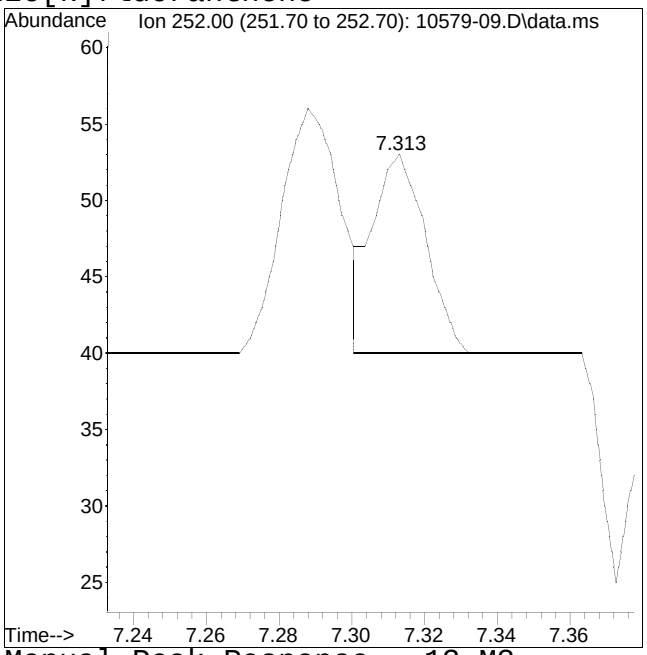
Manual Integration Report

Data Path : I:\8270SIM\SV128\240305\ QMethod : SIM-LVI_231211_sv128.M
Data File : 10579-09.D Operator : SV128:jjw
Date Inj'd : 3/5/2024 1:34 pm Instrument : SV128
Sample : L2410579-09,32,,ah Quant Date : 3/5/2024 1:49 pm

Compound #38: Benzo[k]fluoranthene



Original Peak Response = 18



Manual Peak Response = 13 M3

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV128\240305\
Data File : 10579-10.D
Acq On : 05 Mar 2024 01:51 pm
Operator : SV128:jjw
Sample : L2410579-10,32,,ah
Misc : WG1892213,wg1892049,ical20676
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Mar 05 14:17:09 2024
Quant Method : I:\8270sim\sv128\240305\SIM-LVI_231211_sv128.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Mar 05 07:15:56 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv128\240305\ccv0305a.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.269	152	2487	4000.000	ng/ml	0.00
Standard Area 1 = 1565			Recovery = 158.91%			
8) Naphthalene-d8	2.945	136	9236	4000.000	ng/ml	0.00
Standard Area 1 = 5966			Recovery = 154.81%			
17) Acenaphthene-d10	3.937	164	5784	4000.000	ng/ml	0.00
Standard Area 1 = 4044			Recovery = 143.03%			
22) Phenanthrene-d10	4.796	188	14204	4000.000	ng/ml	0.00
Standard Area 1 = 10610			Recovery = 133.87%			
31) Chrysene-d12	6.386	240	14544	4000.000	ng/ml	-0.01
Standard Area 1 = 12274			Recovery = 118.49%			
36) Perylene-d12	7.687	264	16602	4000.000	ng/ml	-0.02
Standard Area 1 = 14188			Recovery = 117.01%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.659	112	1770	2826.267	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 56.53%			
3) Phenol-d6	2.083	99	1981	2706.621	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 54.13%			
7) Nitrobenzene-d5	2.557	82	1284	2170.798	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 86.83%			
13) 2-Fluorobiphenyl	3.552	172	3889	1985.513	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 79.42%			
21) 2,4,6-Tribromophenol	4.395	330	1102	3812.681	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 76.25%			
30) 4-Terphenyl-d14	5.729	244	6764	2285.747	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 91.43%			
Target Compounds						Qvalue
6) Hexachloroethane	0.000		0	N.D.		
9) Naphthalene	2.957	128	36M7	15.199	ng/ml	
10) Hexachlorobutadiene	0.000		0	N.D.		
11) 2-Methylnaphthalene	0.000		0	N.D.		
14) 2-Chloronaphthalene	3.619	162	5M7	3.035	ng/ml	
16) Acenaphthylene	0.000		0	N.D.		
18) Acenaphthene	0.000		0	N.D.	d	
20) Fluorene	4.255	166	6M6	3.041	ng/ml	
24) Hexachlorobenzene	0.000		0	N.D.	d	
25) Pentachlorophenol	0.000		0	N.D.	d	

Data Path : I:\8270SIM\SV128\240305\
Data File : 10579-10.D
Acq On : 05 Mar 2024 01:51 pm
Operator : SV128:jjw
Sample : L2410579-10,32,,ah
Misc : WG1892213,wg1892049,ical20676
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Mar 05 14:17:09 2024
Quant Method : I:\8270sim\sv128\240305\SIM-LVI_231211_sv128.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Mar 05 07:15:56 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv128\240305\ccv0305a.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Phenanthrene	4.808	178	19M6	4.947	ng/ml	
27) Anthracene	4.840	178	7M7	1.886	ng/ml	
28) Fluoranthene	5.502	202	16M4	3.792	ng/ml	
29) Pyrene	5.633	202	14M7	3.207	ng/ml	
32) Benzo[a]anthracene	6.386	228	49	2.864	ng/ml#	67
34) Chrysene	6.405	228	8M3	1.596	ng/ml	
37) Benzo[b]fluoranthene	0.000		0	N.D.	d	
38) Benzo[k]fluoranthene	0.000		0	N.D.	d	
39) Benzo[a]pyrene	0.000		0	N.D.	d	
40) Indeno[1,2,3-cd]pyrene	0.000		0	N.D.	d	
41) Dibenzo[a,h]anthracene	0.000		0	N.D.		
42) Benzo[g,h,i]perylene	0.000		0	N.D.	d	

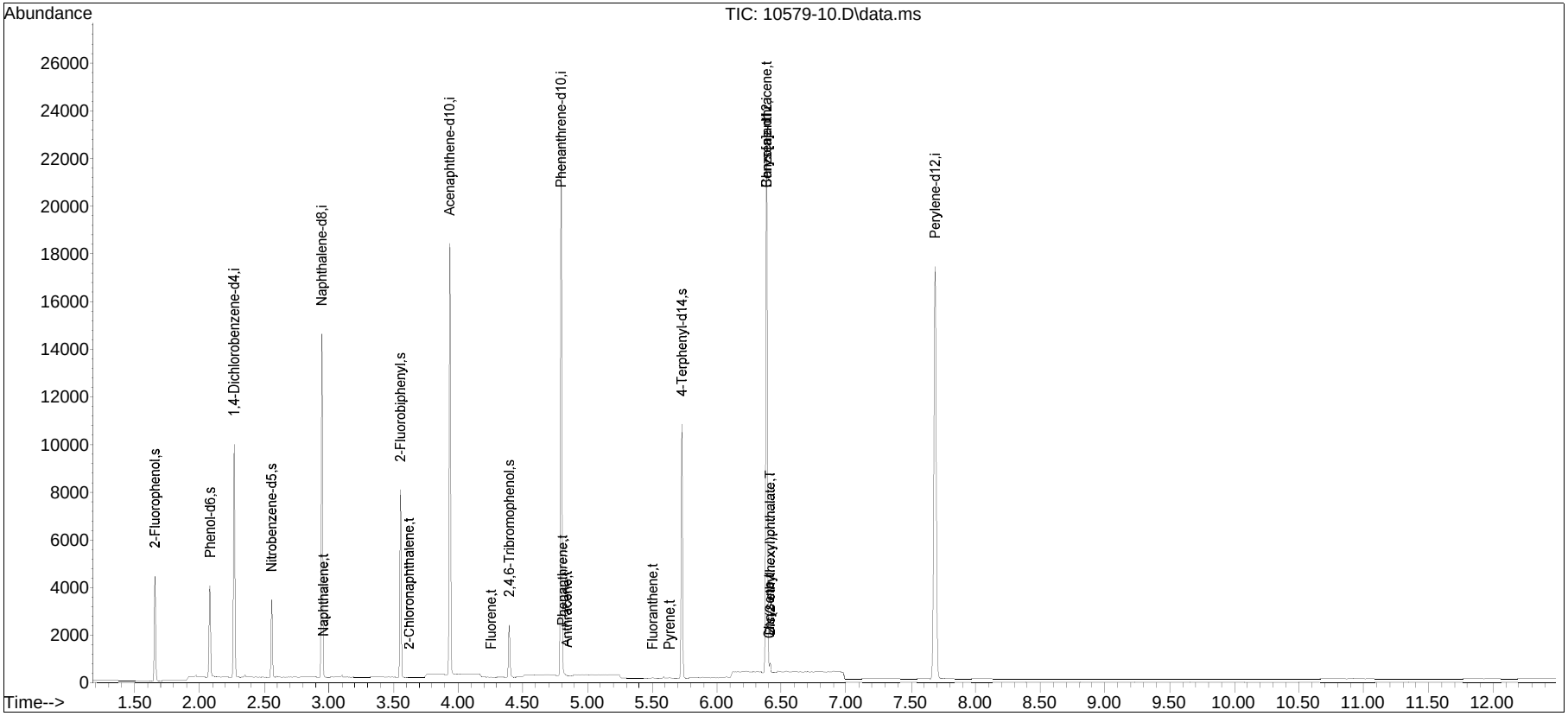
(#) = qualifier out of range (m) = manual integration (+) = signals summed

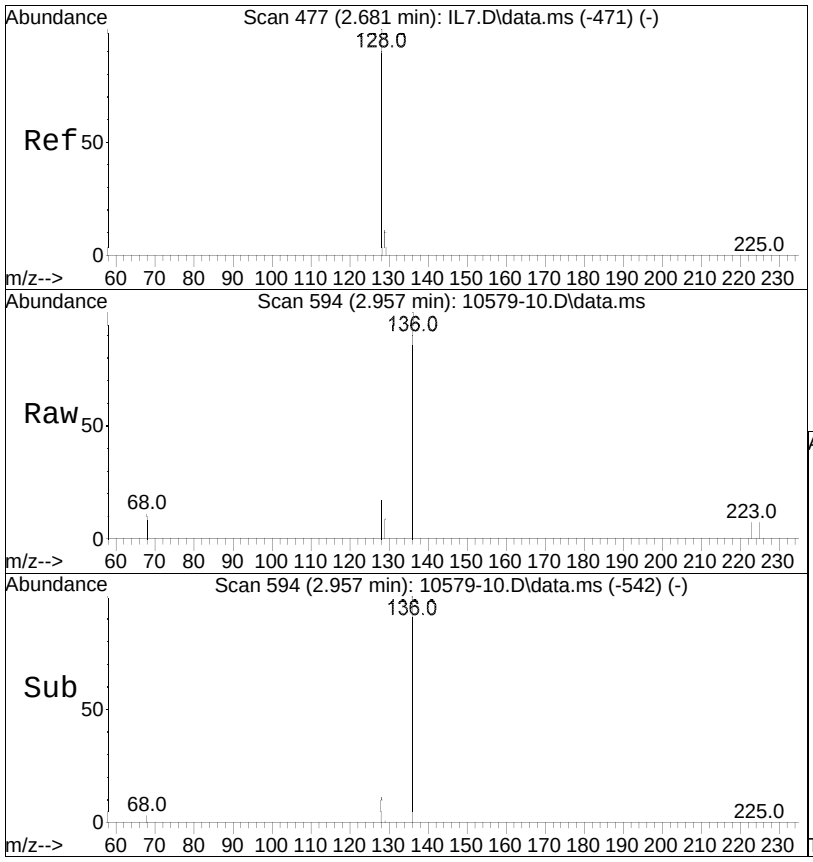
Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV128\240305\
Data File : 10579-10.D
Acq On : 05 Mar 2024 01:51 pm
Operator : SV128:jjw
Sample : L2410579-10,32,,ah
Misc : WG1892213,wg1892049,ical20676
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Mar 05 14:17:09 2024
Quant Method : I:\8270sim\sv128\240305\SIM-LVI_231211_sv128.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Mar 05 07:15:56 2024
Response via : Initial Calibration

Sub List : DEFAULT - All compounds listedv0305a.D•

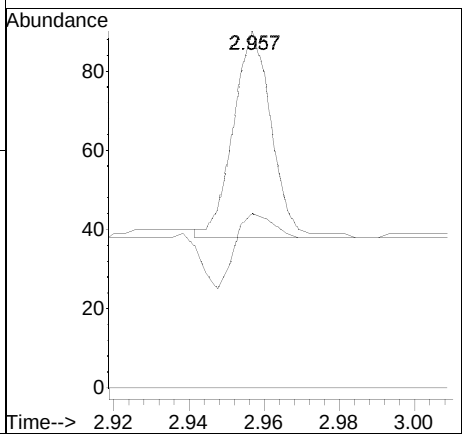


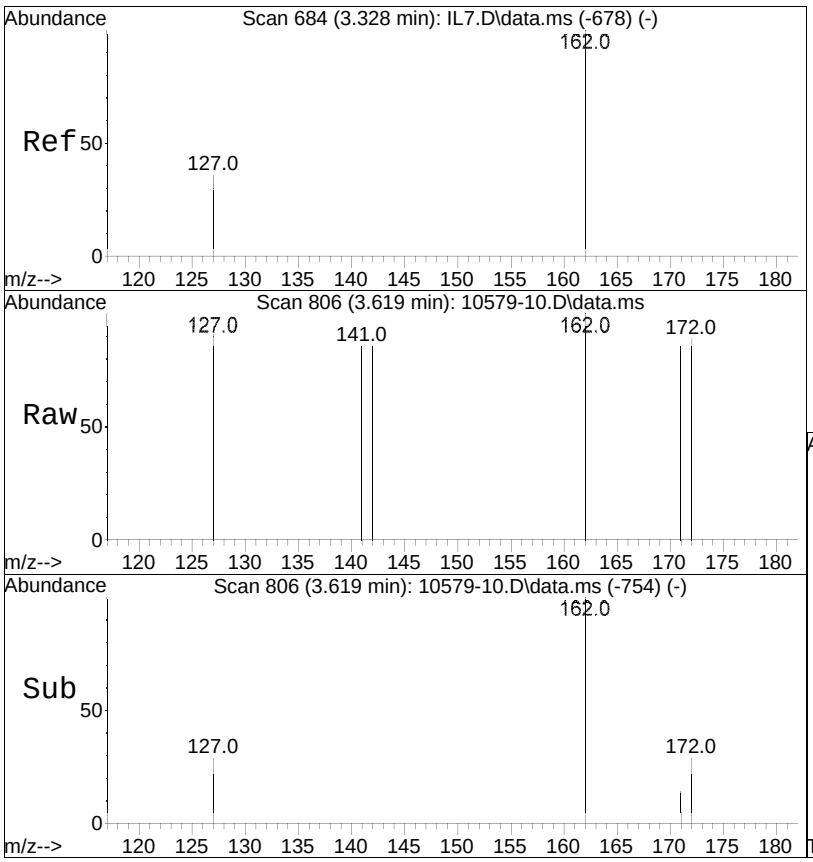


#9
Naphthalene
Concen: 15.20 ng/ml M7
RT: 2.957 min Scan# 594
Delta R.T. 0.000 min
Lab File: 10579-10.D
Acq: 05 Mar 2024 01:51 pm

Tgt Ion:128 Resp: 36

Ion	Ratio	Lower	Upper
128	100		
129	13.9	8.8	13.2#
127	0.0	0.0	0.0

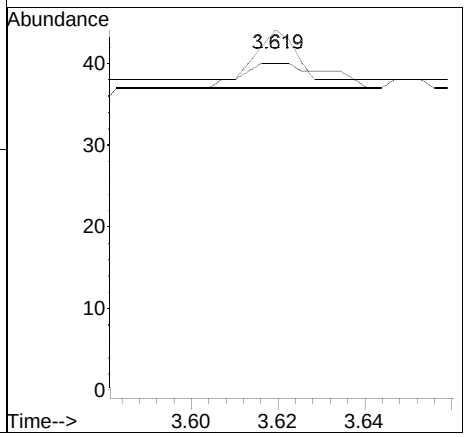


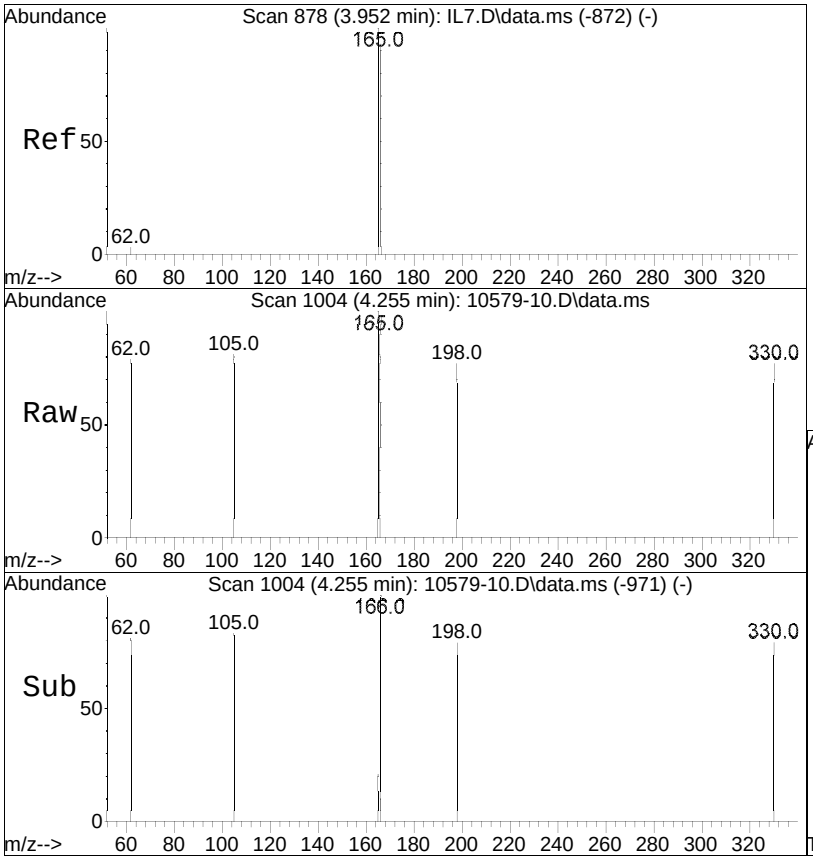


#14
2-Chloronaphthalene
Concen: 3.04 ng/ml M7
RT: 3.619 min Scan# 806
Delta R.T. -0.003 min
Lab File: 10579-10.D
Acq: 05 Mar 2024 01:51 pm

Tgt Ion:162 Resp: 5

Ion	Ratio	Lower	Upper
162	100		
127	40.0	29.3	43.9

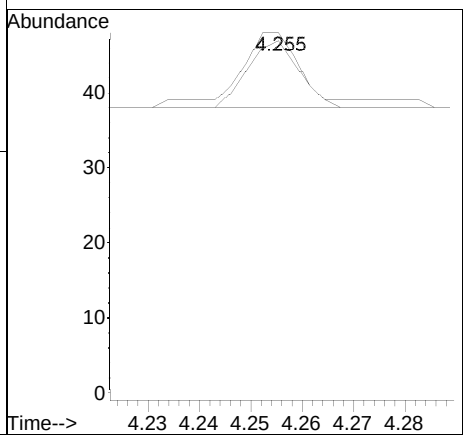


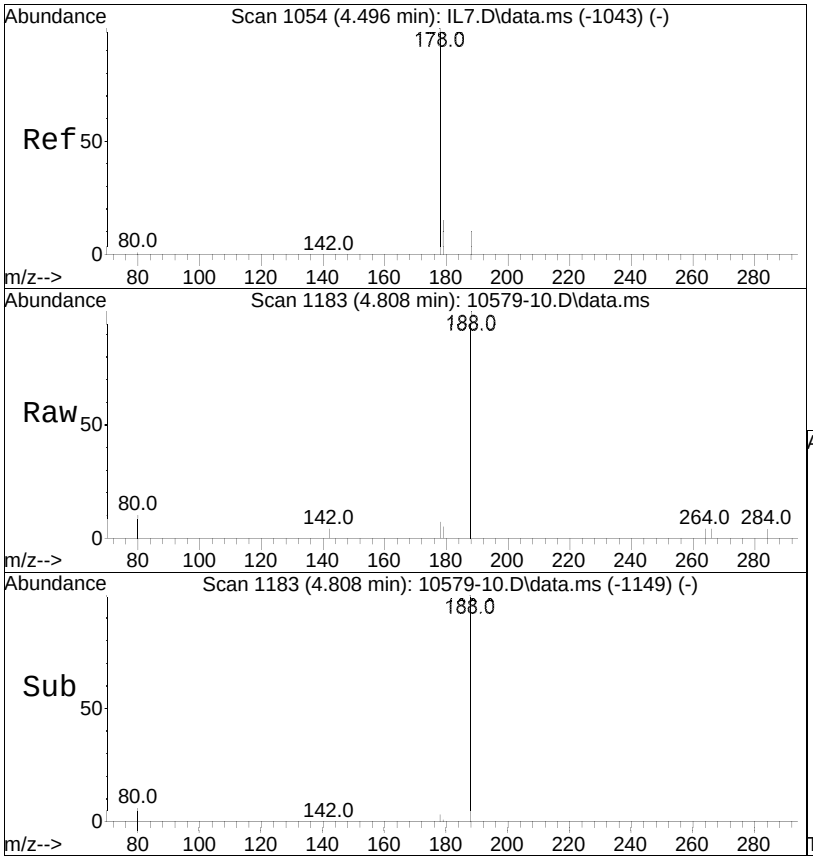


#20
Fluorene
Concen: 3.04 ng/ml M6
RT: 4.255 min Scan# 1004
Delta R.T. -0.003 min
Lab File: 10579-10.D
Acq: 05 Mar 2024 01:51 pm

Tgt Ion:166 Resp: 6

Ion	Ratio	Lower	Upper
166	100		
165	116.7	85.7	128.5

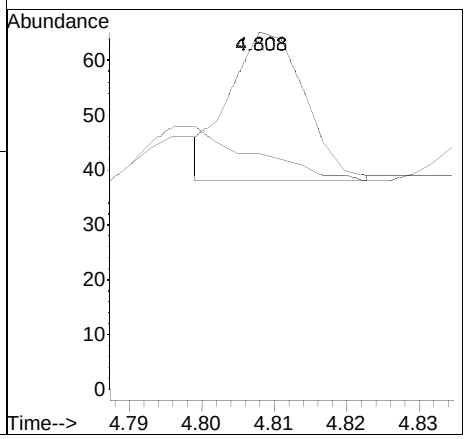


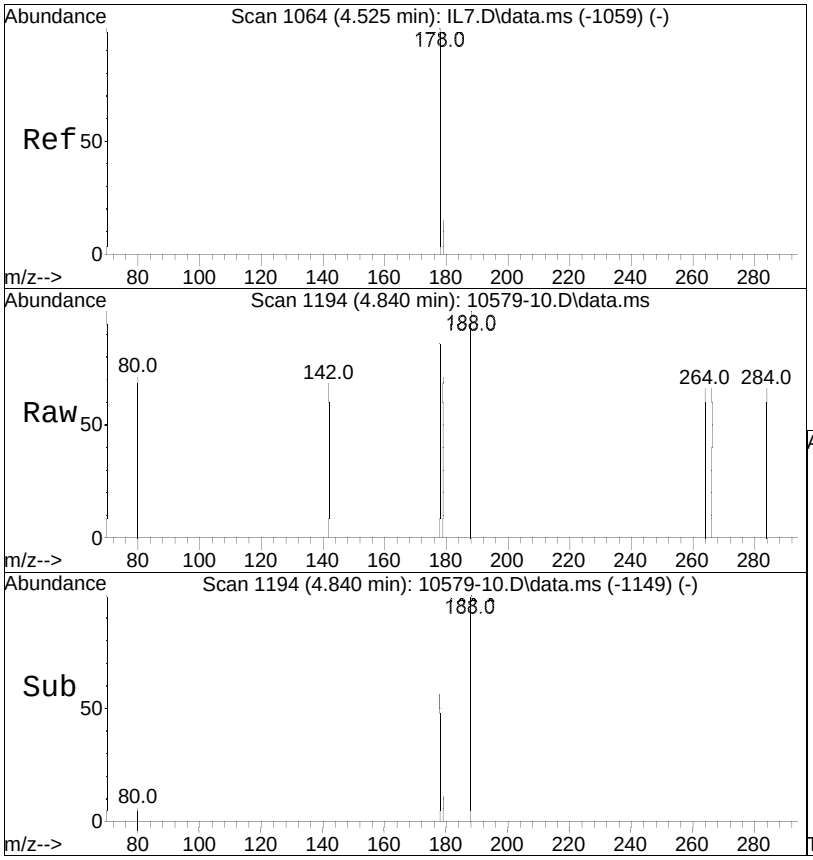


#26
Phenanthrene
Concen: 4.95 ng/ml M6
RT: 4.808 min Scan# 1183
Delta R.T. -0.006 min
Lab File: 10579-10.D
Acq: 05 Mar 2024 01:51 pm

Tgt Ion:178 Resp: 19

Ion	Ratio	Lower	Upper
178	100		
179	15.8	12.2	18.4

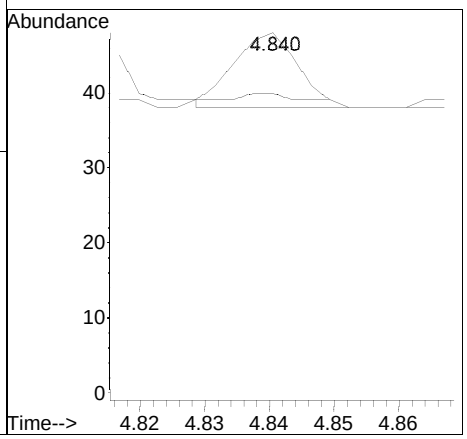


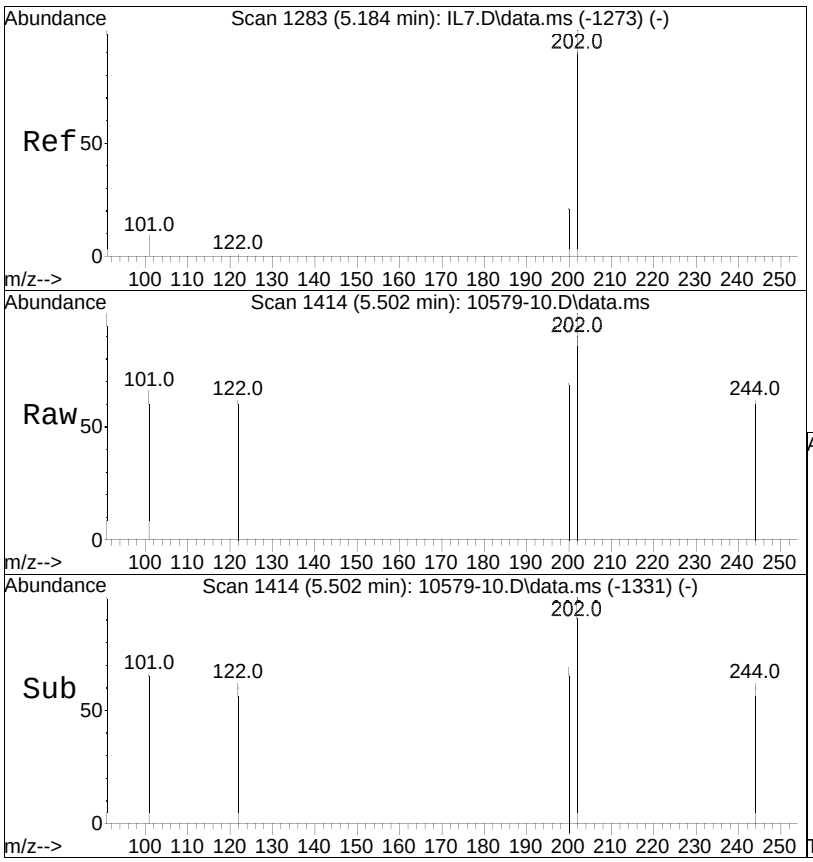


#27
Anthracene
Concen: 1.89 ng/ml M7
RT: 4.840 min Scan# 1194
Delta R.T. -0.003 min
Lab File: 10579-10.D
Acq: 05 Mar 2024 01:51 pm

Tgt Ion:178 Resp: 7

Ion	Ratio	Lower	Upper
178	100		
179	14.3	12.2	18.2

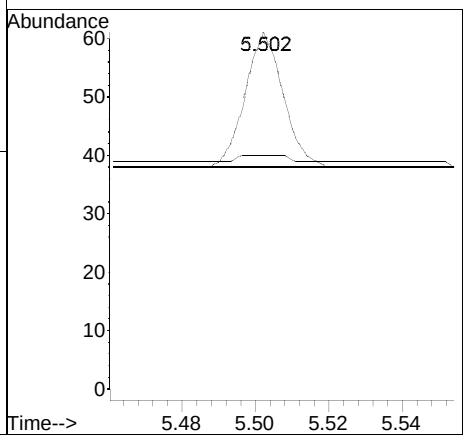


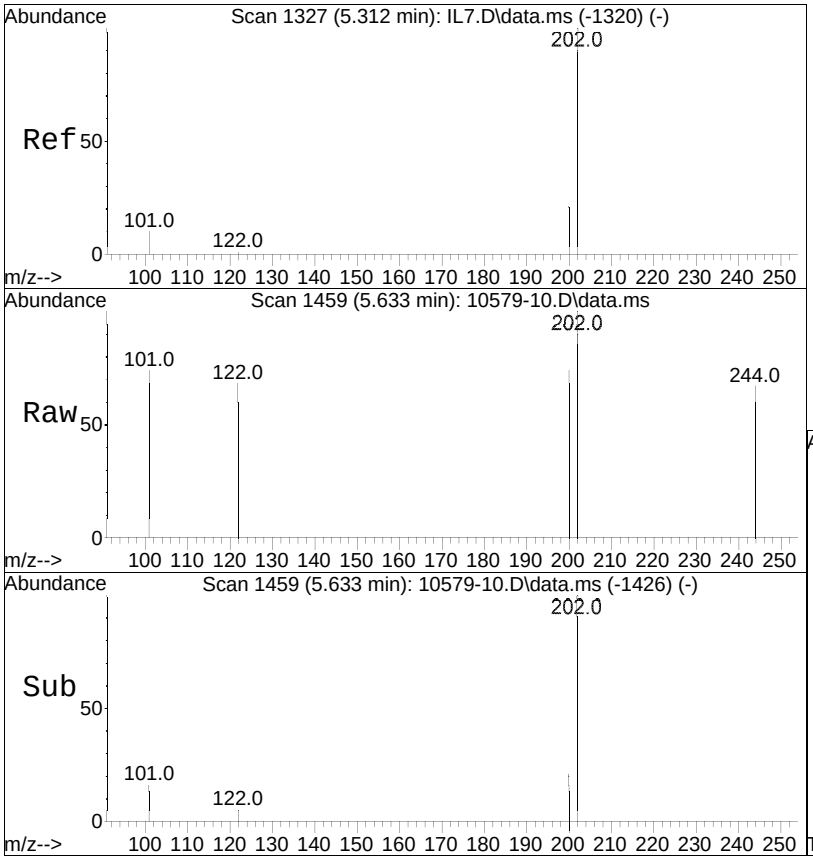


#28
Fluoranthene
Concen: 3.79 ng/ml M4
RT: 5.502 min Scan# 1414
Delta R.T. -0.009 min
Lab File: 10579-10.D
Acq: 05 Mar 2024 01:51 pm

Tgt Ion:202 Resp: 16

Ion	Ratio	Lower	Upper
202	100		
101	12.5	7.2	10.8#

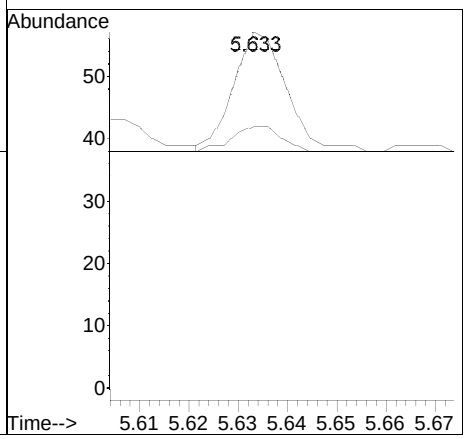


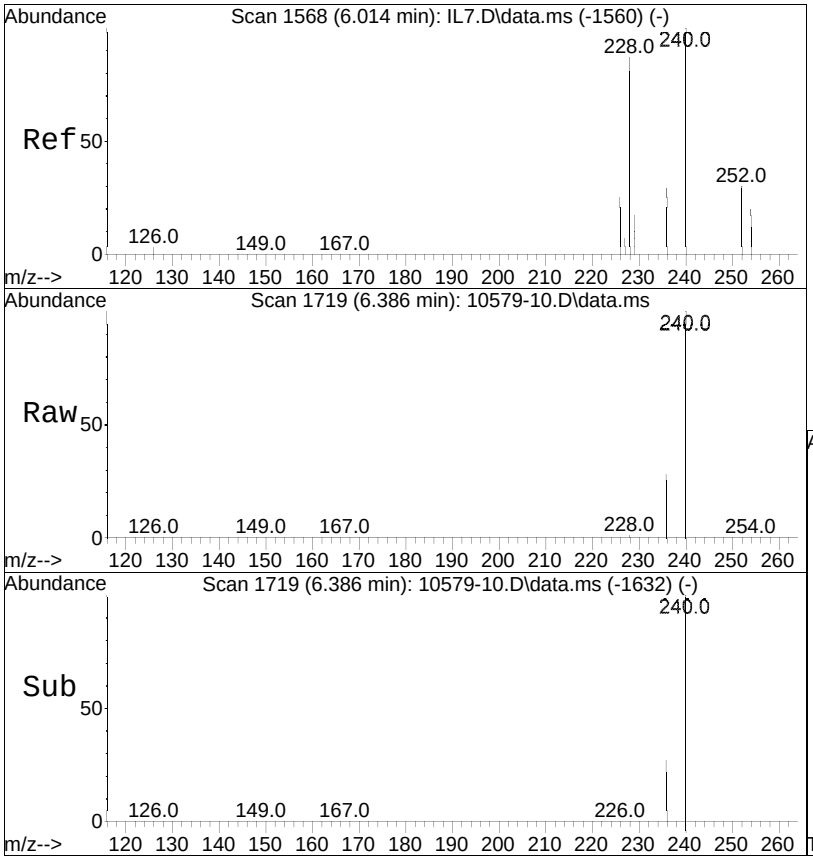


#29
Pyrene
Concen: 3.21 ng/ml M7
RT: 5.633 min Scan# 1459
Delta R.T. -0.009 min
Lab File: 10579-10.D
Acq: 05 Mar 2024 01:51 pm

Tgt Ion:202 Resp: 14

Ion	Ratio	Lower	Upper
202	100		
200	21.4	17.7	26.5

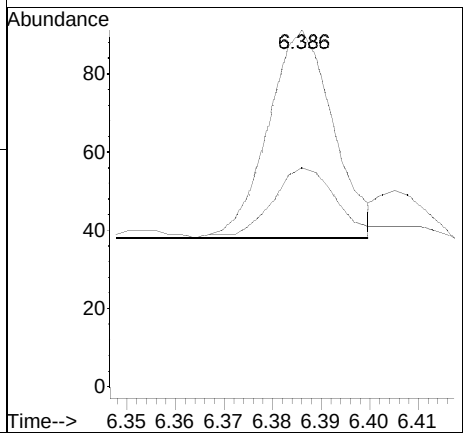


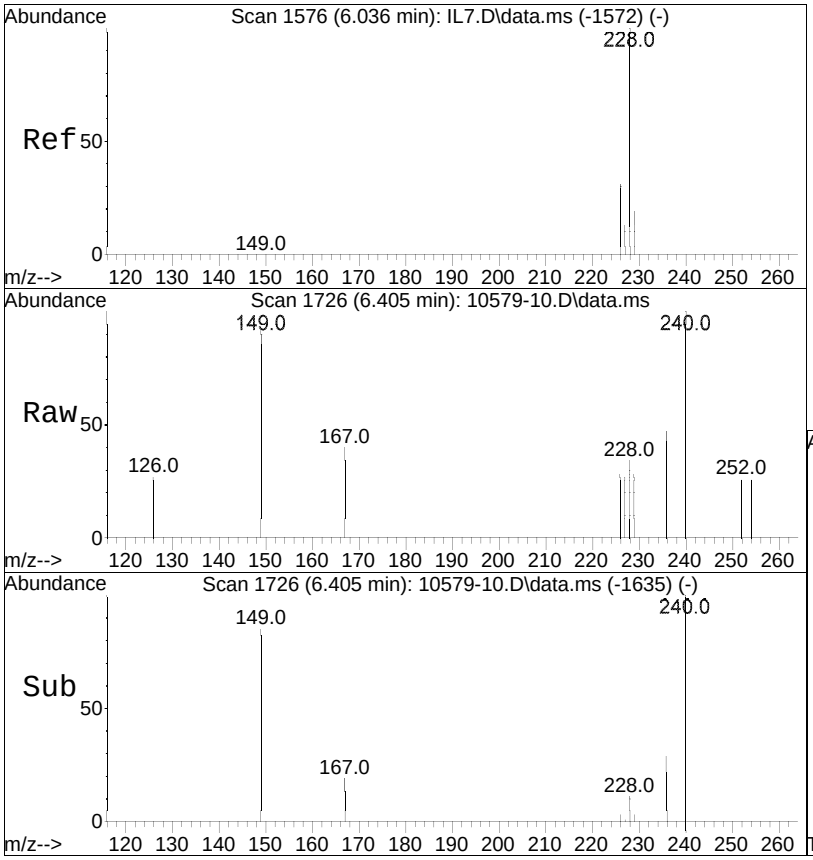


#32
Benzo[a]anthracene
Concen: 2.86 ng/ml
RT: 6.386 min Scan# 1719
Delta R.T. -0.002 min
Lab File: 10579-10.D
Acq: 05 Mar 2024 01:51 pm

Tgt Ion:228 Resp: 49

Ion	Ratio	Lower	Upper
228	100		
229	34.7	15.7	23.5#

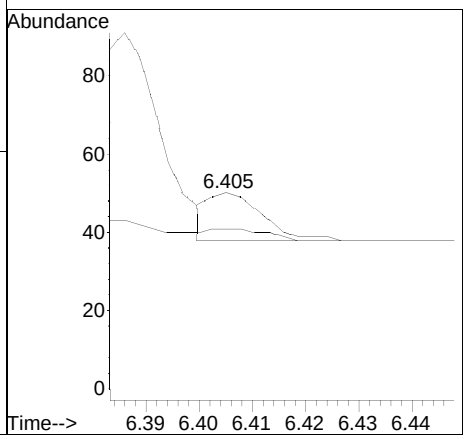




#34
Chrysene
Concen: 1.60 ng/ml M3
RT: 6.405 min Scan# 1726
Delta R.T. -0.011 min
Lab File: 10579-10.D
Acq: 05 Mar 2024 01:51 pm

Tgt Ion:228 Resp: 8

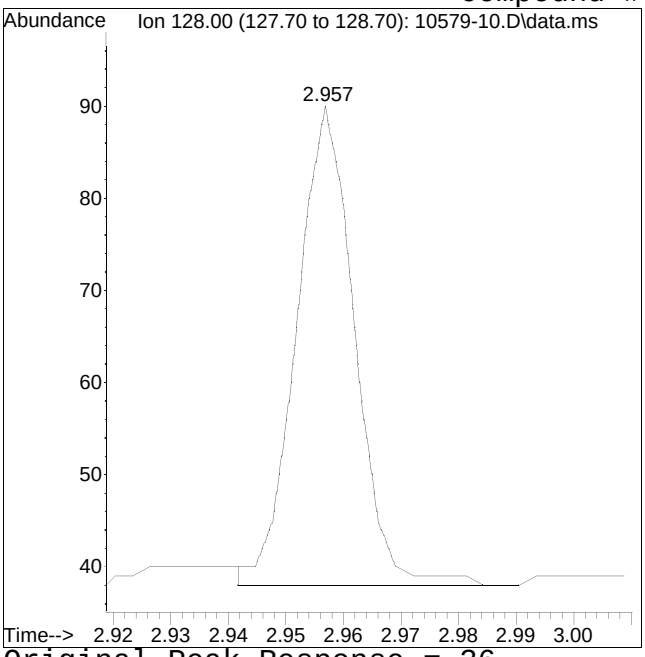
Ion	Ratio	Lower	Upper
228	100		
226	25.0	24.6	36.8



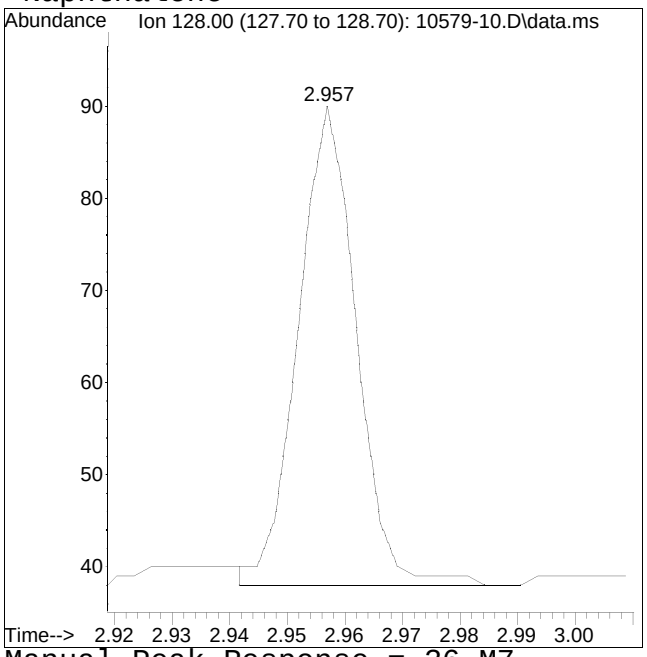
Manual Integration Report

Data Path	: I:\8270SIM\SV128\240305\	QMethod	: SIM-LVI_231211_sv128.M
Data File	: 10579-10.D	Operator	: SV128:jjw
Date Inj'd	: 3/5/2024 1:51 pm	Instrument	: SV128
Sample	: L2410579-10,32,,ah	Quant Date	: 3/5/2024 2:06 pm

Compound #9: Naphthalene



Original Peak Response = 36



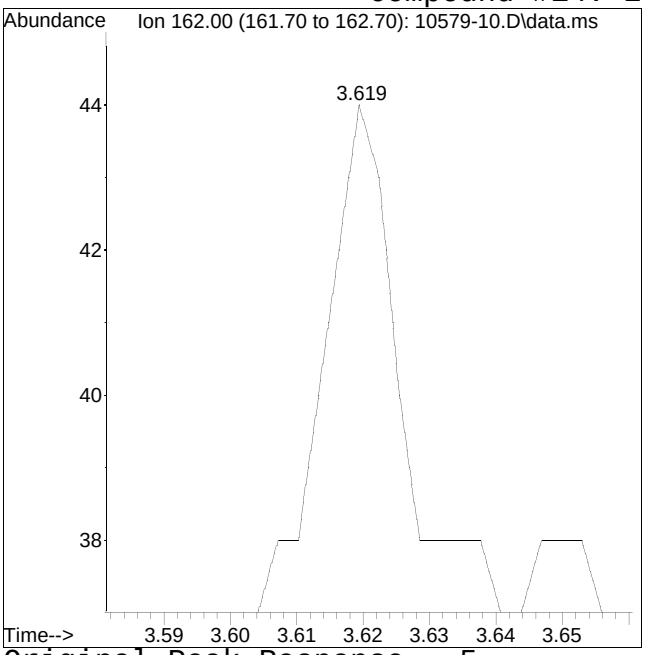
Manual Peak Response = 36 M7

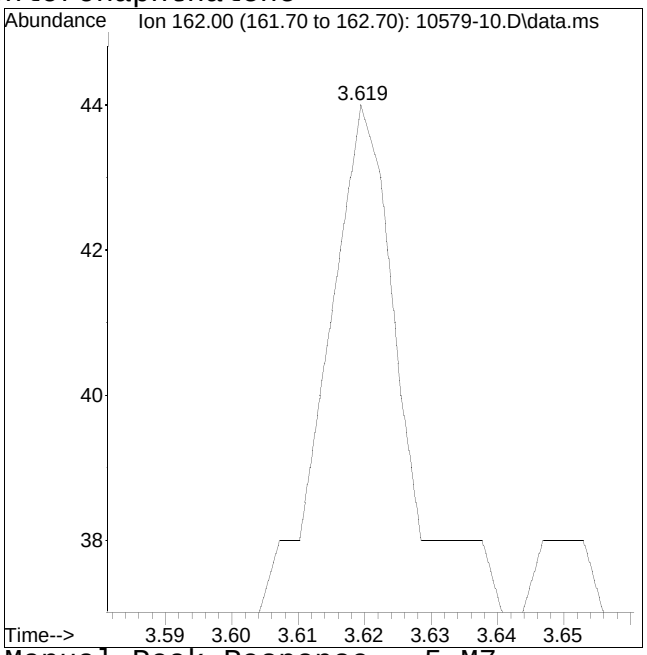
M7 = A qualifier ion was manually integrated (only for GC/MS data).

Manual Integration Report

Data Path : I:\8270SIM\SV128\240305\ QMethod : SIM-LVI_231211_sv128.M
Data File : 10579-10.D Operator : SV128:jjw
Date Inj'd : 3/5/2024 1:51 pm Instrument : SV128
Sample : L2410579-10,32,,ah Quant Date : 3/5/2024 2:06 pm

Compound #14: 2-Chloronaphthalene





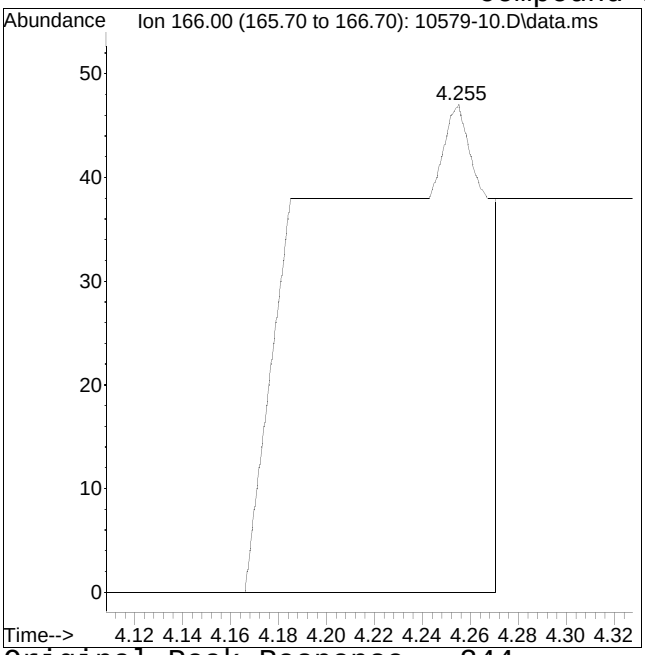
Original Peak Response = 5 Manual Peak Response = 5 M7
M7 = A qualifier ion was manually integrated (only for GC/MS data).

Manual Integration Report

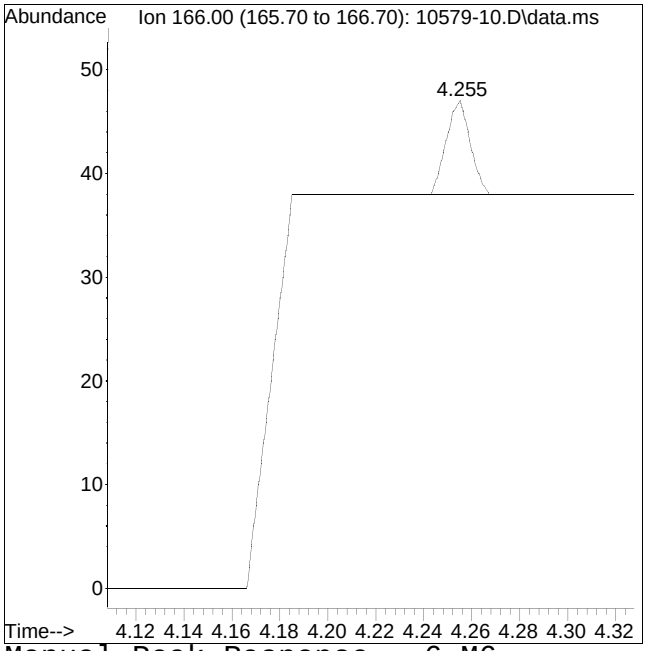
Data Path : I:\8270SIM\SV128\240305\
Data File : 10579-10.D
Date Inj'd : 3/5/2024 1:51 pm
Sample : L2410579-10,32,,ah

QMethod : SIM-LVI_231211_sv128.M
Operator : SV128:jjw
Instrument : SV128
Quant Date : 3/5/2024 2:06 pm

Compound #20: Fluorene



Original Peak Response = 244



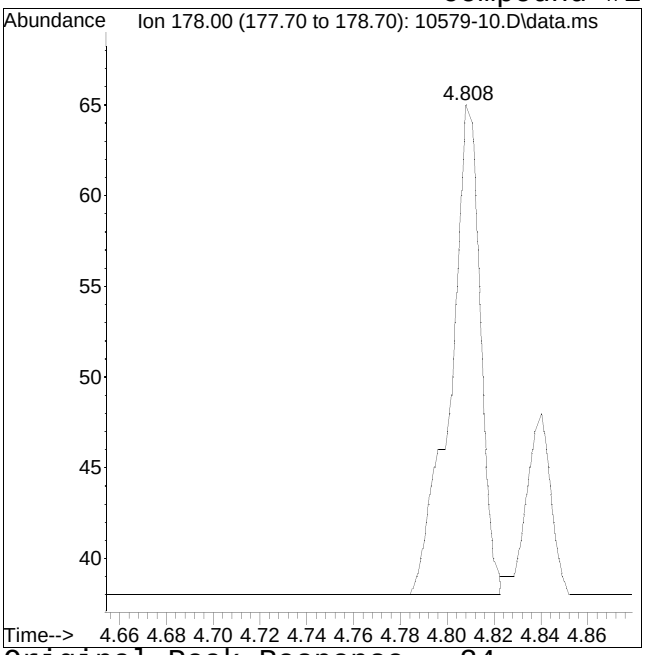
Manual Peak Response = 6 M6

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

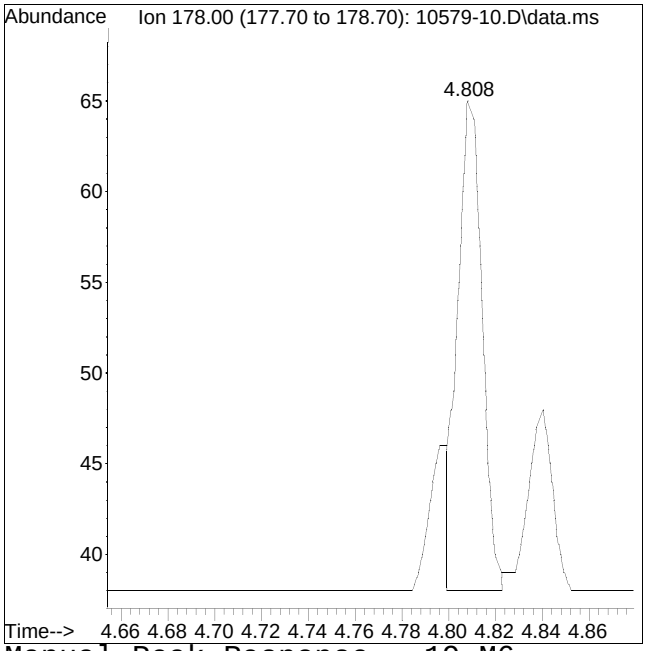
Manual Integration Report

Data Path : I:\8270SIM\SV128\240305\ QMethod : SIM-LVI_231211_sv128.M
Data File : 10579-10.D Operator : SV128:jjw
Date Inj'd : 3/5/2024 1:51 pm Instrument : SV128
Sample : L2410579-10,32,,ah Quant Date : 3/5/2024 2:06 pm

Compound #26: Phenanthrene



Original Peak Response = 24



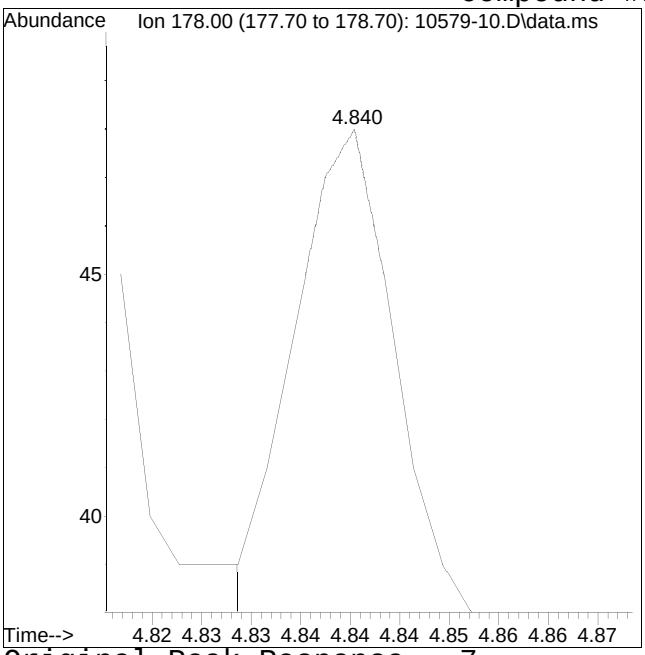
Manual Peak Response = 19 M6

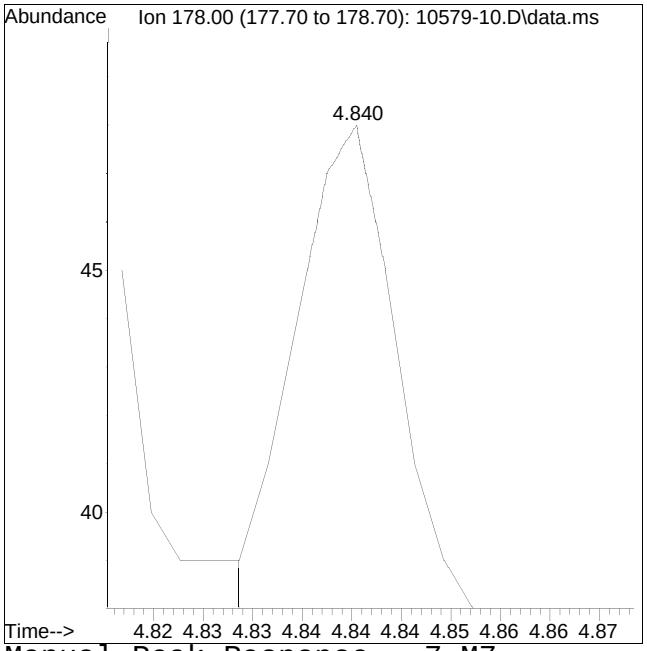
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

Data Path : I:\8270SIM\SV128\240305\ QMethod : SIM-LVI_231211_sv128.M
Data File : 10579-10.D Operator : SV128:jjw
Date Inj'd : 3/5/2024 1:51 pm Instrument : SV128
Sample : L2410579-10,32,,ah Quant Date : 3/5/2024 2:06 pm

Compound #27: Anthracene



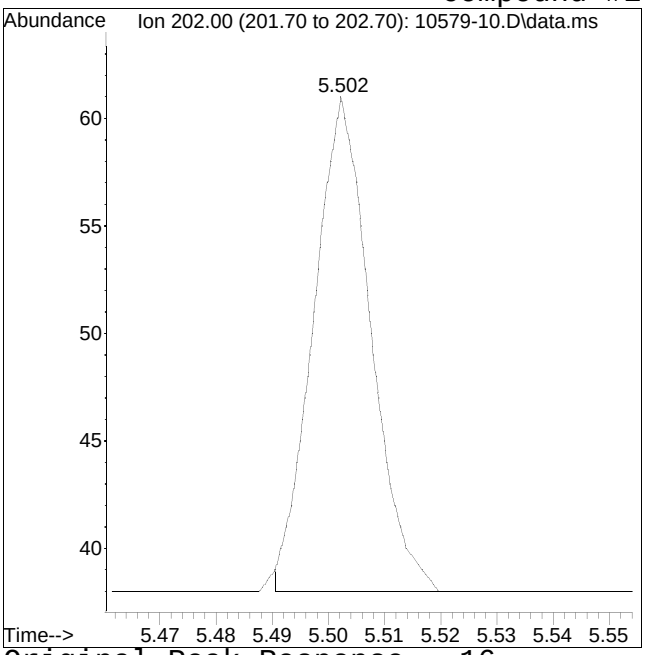


Original Peak Response = 7 Manual Peak Response = 7 M7
M7 = A qualifier ion was manually integrated (only for GC/MS data).

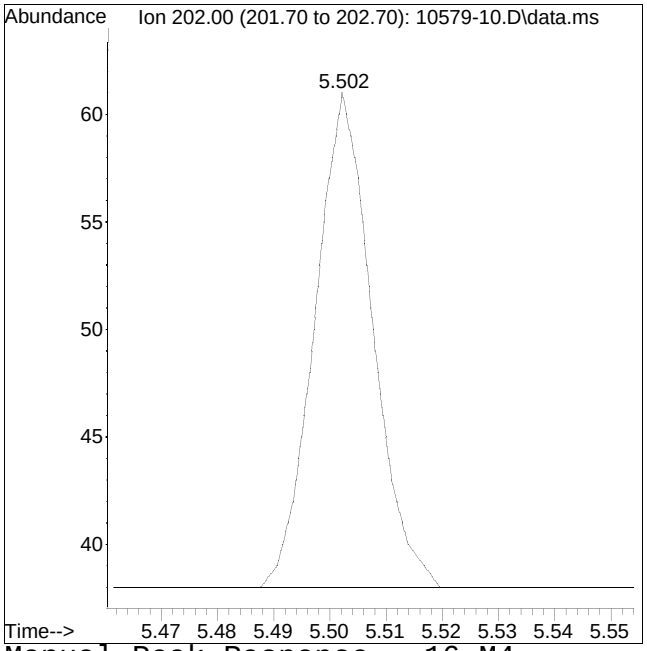
Manual Integration Report

Data Path : I:\8270SIM\SV128\240305\ QMethod : SIM-LVI_231211_sv128.M
Data File : 10579-10.D Operator : SV128:jjw
Date Inj'd : 3/5/2024 1:51 pm Instrument : SV128
Sample : L2410579-10,32,,ah Quant Date : 3/5/2024 2:06 pm

Compound #28: Fluoranthene



Original Peak Response = 16



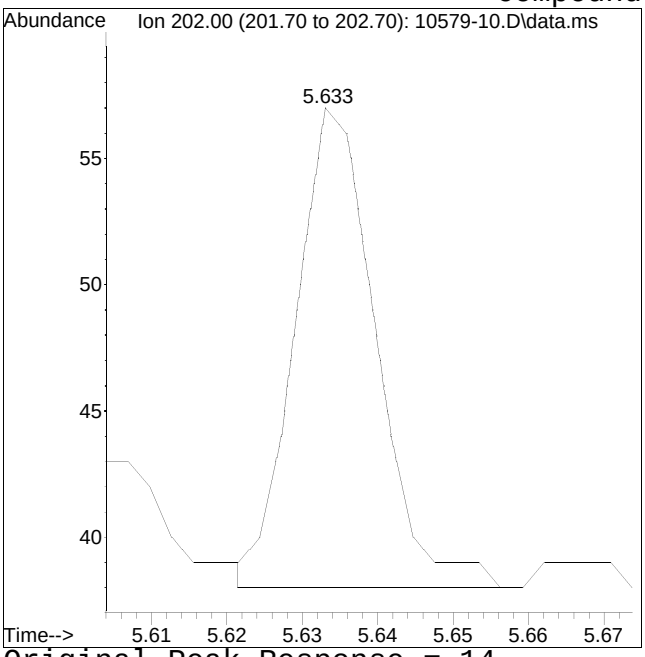
Manual Peak Response = 16 M4

M4 = Poor automated baseline construction.

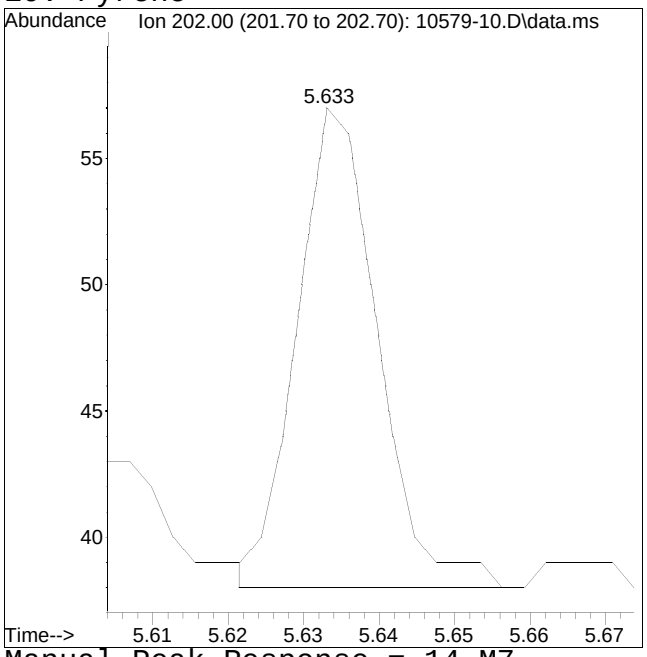
Manual Integration Report

Data Path : I:\8270SIM\SV128\240305\ QMethod : SIM-LVI_231211_sv128.M
Data File : 10579-10.D Operator : SV128:jjw
Date Inj'd : 3/5/2024 1:51 pm Instrument : SV128
Sample : L2410579-10,32,,ah Quant Date : 3/5/2024 2:06 pm

Compound #29: Pyrene



Original Peak Response = 14



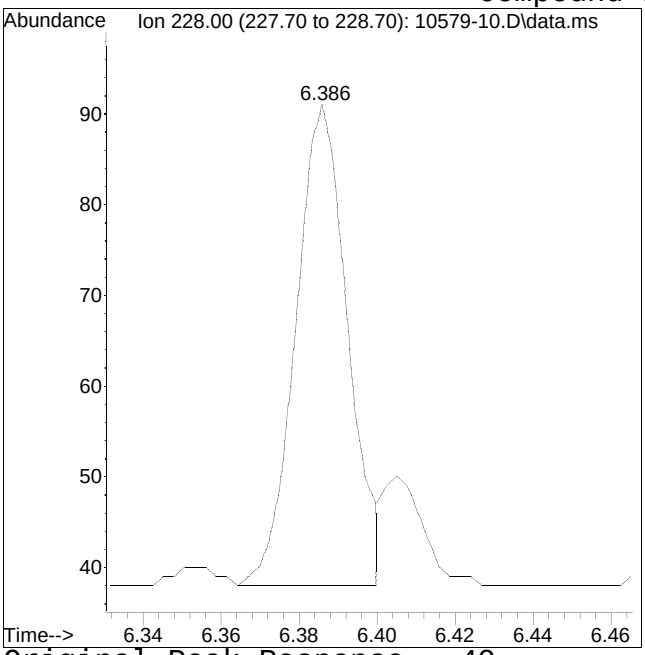
Manual Peak Response = 14 M7

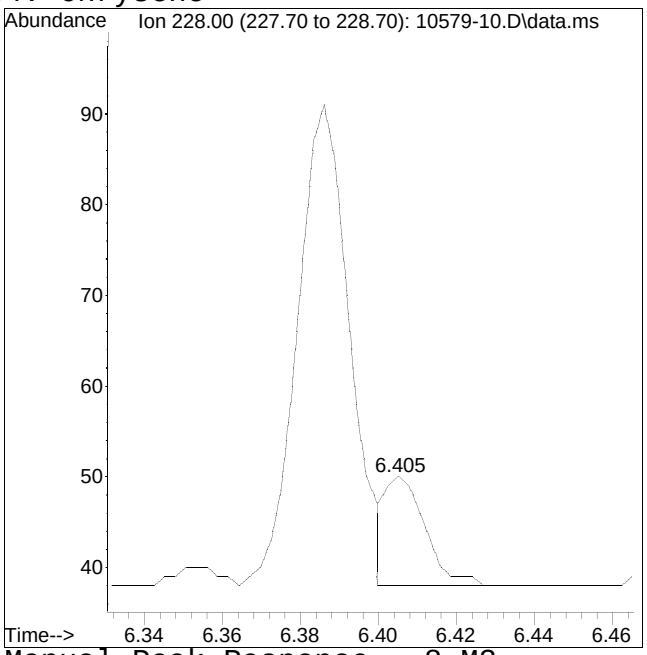
M7 = A qualifier ion was manually integrated (only for GC/MS data).

Manual Integration Report

Data Path : I:\8270SIM\SV128\240305\ QMethod : SIM-LVI_231211_sv128.M
Data File : 10579-10.D Operator : SV128:jjw
Date Inj'd : 3/5/2024 1:51 pm Instrument : SV128
Sample : L2410579-10,32,,ah Quant Date : 3/5/2024 2:06 pm

Compound #34: Chrysene





Original Peak Response = 49 Manual Peak Response = 8 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\240305nLVI\
Data File : 10579-01.D
Acq On : 06 Mar 2024 03:39 am
Operator : sv119:ah
Sample : L2410579-01,32,,RE,mrg
Misc : wg1892573,WG1892049,ical20642
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Mar 06 08:08:07 2024
Quant Method : I:\8270sim\sv119\240305nLVI\SIM-LVI_231207n_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Mar 05 22:21:53 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv119\240305nLVI\ccv0305n.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.137	152	40966	4000.000	ng/ml	0.00
Standard Area 1 = 38606			Recovery = 106.11%			
8) Naphthalene-d8	2.798	136	149359	4000.000	ng/ml	0.00
Standard Area 1 = 135686			Recovery = 110.08%			
17) Acenaphthene-d10	3.763	164	90202	4000.000	ng/ml	0.00
Standard Area 1 = 79962			Recovery = 112.81%			
22) Phenanthrene-d10	4.594	188	198685	4000.000	ng/ml	0.00
Standard Area 1 = 190107			Recovery = 104.51%			
31) Chrysene-d12	6.157	240	162887	4000.000	ng/ml	-0.02
Standard Area 1 = 179316			Recovery = 90.84%			
36) Perylene-d12	7.276	264	168617	4000.000	ng/ml	-0.02
Standard Area 1 = 182003			Recovery = 92.65%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.542	112	33275	2969.687	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 59.39%			
3) Phenol-d6	1.955	99	33608	2502.230	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 50.04%			
7) Nitrobenzene-d5	2.416	82	21735	2133.364	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 85.33%			
13) 2-Fluorobiphenyl	3.392	172	61880	1855.047	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 74.20%			
21) 2,4,6-Tribromophenol	4.205	330	22066	4437.178	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 88.74%			
30) 4-Terphenyl-d14	5.519	244	68817	1412.882	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 56.52%			
Target Compounds						Qvalue
6) Hexachloroethane	0.000		0	N.D.	d	
9) Naphthalene	2.809	128	1026	28.769	ng/ml	99
10) Hexachlorobutadiene	0.000		0	N.D.	d	
11) 2-Methylnaphthalene	3.184	142	301M6	11.415	ng/ml	
14) 2-Chloronaphthalene	3.453	162	130	4.628	ng/ml	89
16) Acenaphthylene	3.683	152	145M6	3.474	ng/ml	
18) Acenaphthene	3.780	153	415M6	14.882	ng/ml	
20) Fluorene	4.068	166	558M6	16.741	ng/ml	
24) Hexachlorobenzene	4.383	284	165M6	12.846	ng/ml	
25) Pentachlorophenol	4.494	266	225M6	38.964	ng/ml	

Data Path : I:\8270SIM\sv119\240305nLVI\
Data File : 10579-01.D
Acq On : 06 Mar 2024 03:39 am
Operator : sv119:ah
Sample : L2410579-01,32,,RE,mrg
Misc : wg1892573,WG1892049,ical20642
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Mar 06 08:08:07 2024
Quant Method : I:\8270sim\sv119\240305nLVI\SIM-LVI_231207n_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Mar 05 22:21:53 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv119\240305nLVI\ccv0305n.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Phenanthrene	4.606	178	790M6	15.653	ng/ml	
27) Anthracene	4.636	178	691M6	13.807	ng/ml	
28) Fluoranthene	5.286	202	574M6	8.629	ng/ml	
29) Pyrene	5.418	202	591M6	8.648	ng/ml	
32) Benzo[a]anthracene	6.155	228	790M4	3.892	ng/ml	
34) Chrysene	6.172	228	143M6	2.660	ng/ml	
37) Benzo[b]fluoranthene	6.933	252	143M6	2.428	ng/ml	
38) Benzo[k]fluoranthene	6.953	252	96M6	1.716	ng/ml	
39) Benzo[a]pyrene	0.000		0	N.D.	d	
40) Indeno[1,2,3-cd]pyrene	0.000		0	N.D.	d	
41) Dibenzo[a,h]anthracene	0.000		0	N.D.	d	
42) Benzo[g,h,i]perylene	0.000		0	N.D.	d	

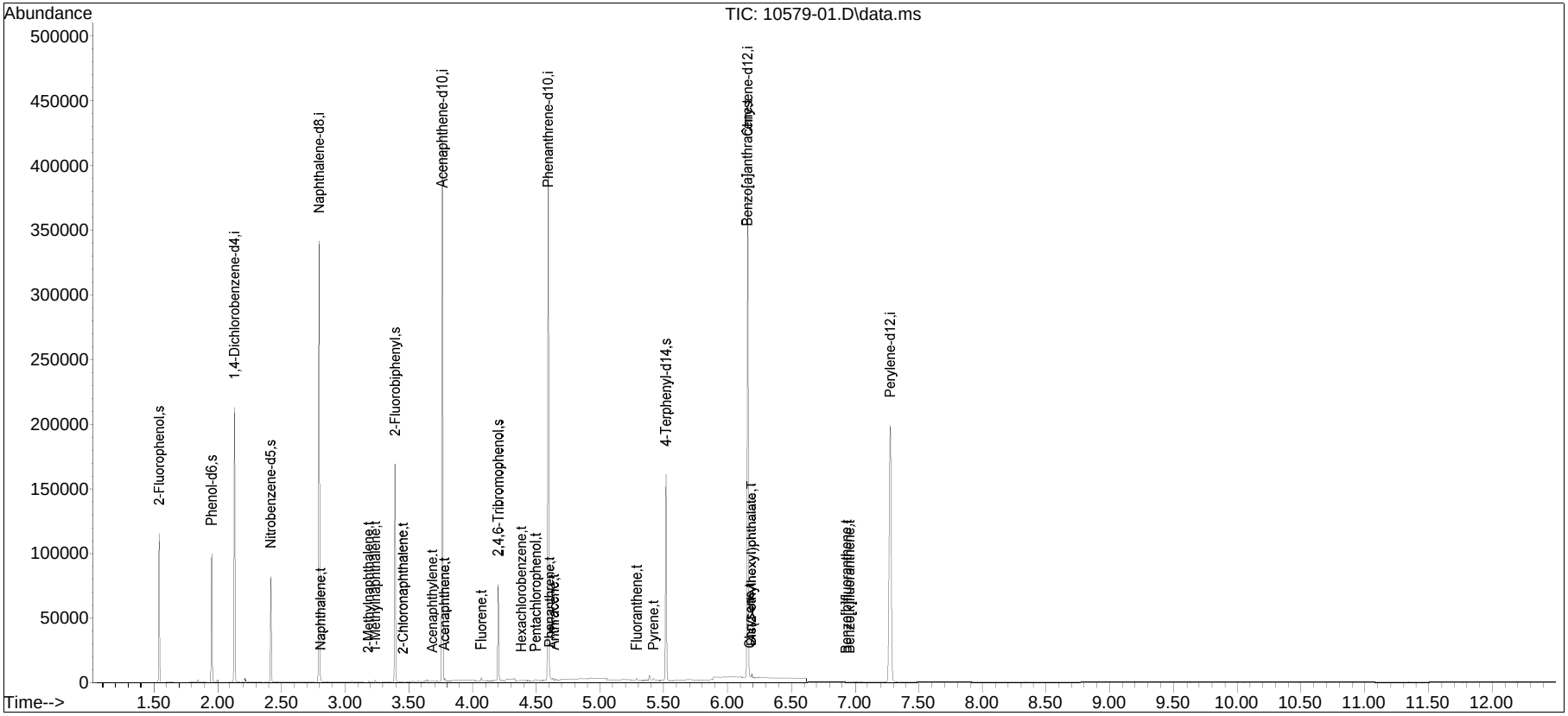
(#) = qualifier out of range (m) = manual integration (+) = signals summed

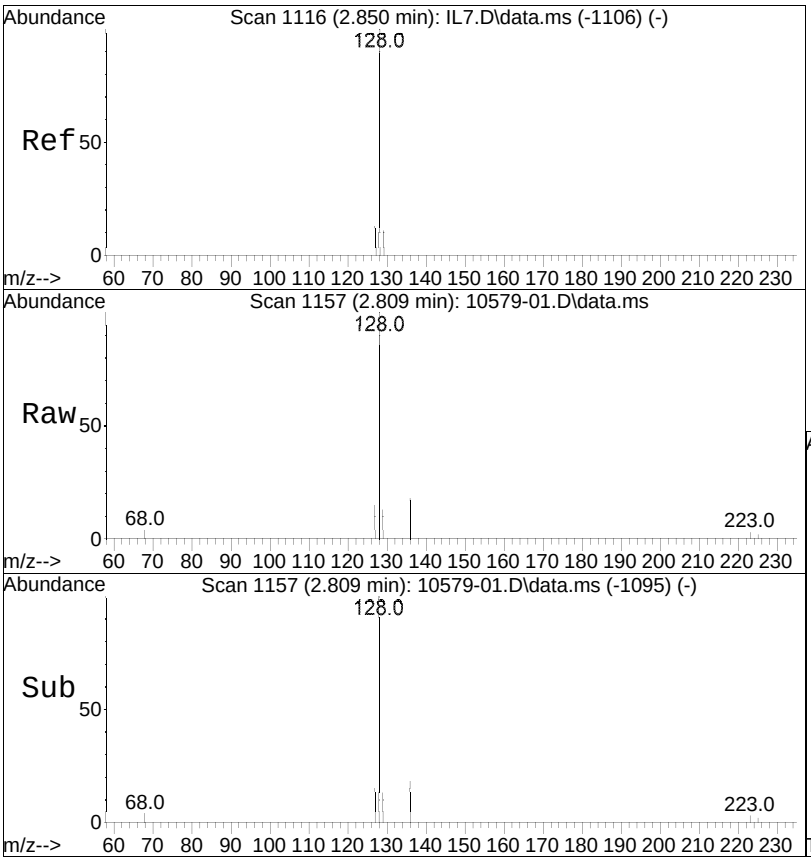
Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\240305nLVI\
Data File : 10579-01.D
Acq On : 06 Mar 2024 03:39 am
Operator : sv119:ah
Sample : L2410579-01,32,,RE,mrg
Misc : wg1892573,WG1892049,ical20642
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Mar 06 08:08:07 2024
Quant Method : I:\8270sim\sv119\240305nLVI\SIM-LVI_231207n_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Mar 05 22:21:53 2024
Response via : Initial Calibration

Sub List : DEFAULT - All compounds listedI\ccv0305n.D•

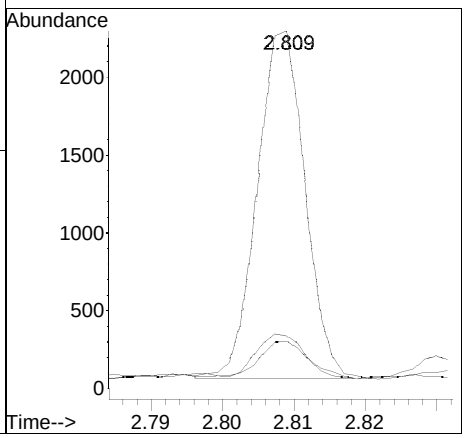


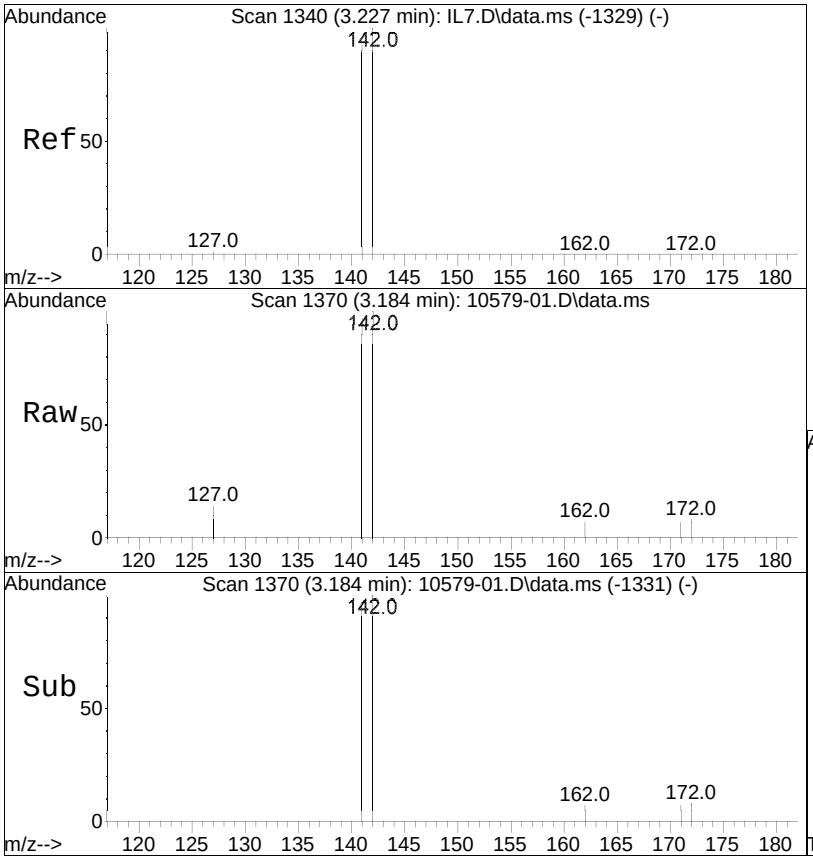


#9
Naphthalene
Concen: 28.77 ng/ml
RT: 2.809 min Scan# 1157
Delta R.T. 0.000 min
Lab File: 10579-01.D
Acq: 06 Mar 2024 03:39 am

Tgt Ion:128 Resp: 1026

Ion	Ratio	Lower	Upper
128	100		
129	11.2	8.8	13.2
127	13.7	10.6	15.8

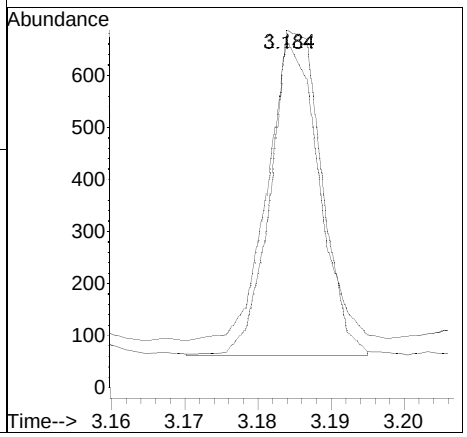


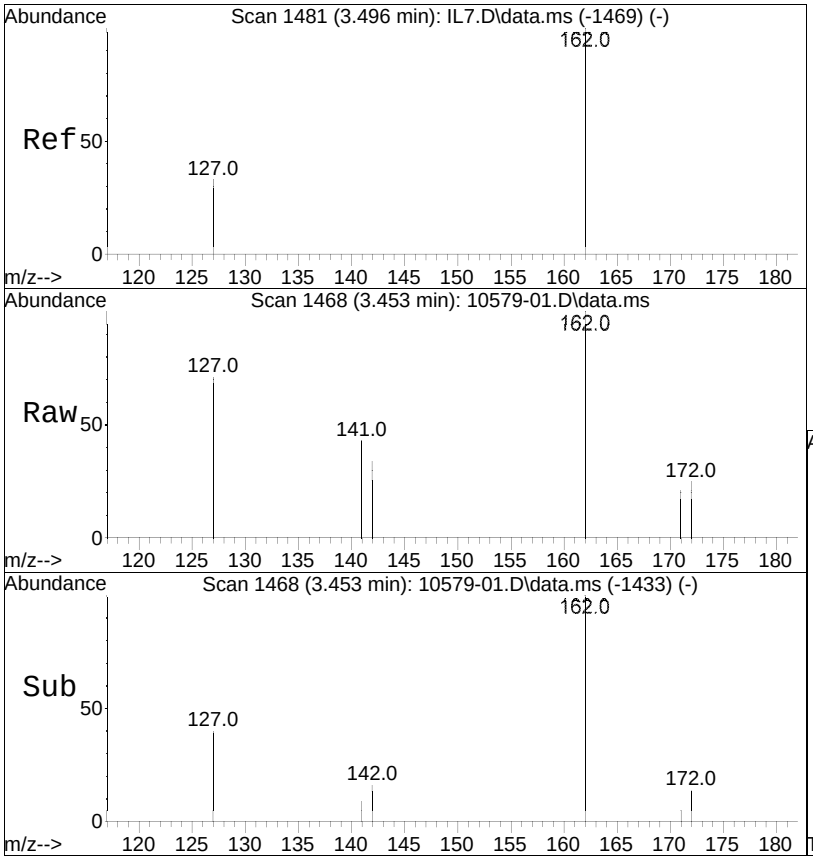


#11
2-Methylnaphthalene
Concen: 11.41 ng/ml M6
RT: 3.184 min Scan# 1370
Delta R.T. -0.004 min
Lab File: 10579-01.D
Acq: 06 Mar 2024 03:39 am

Tgt Ion:142 Resp: 301

Ion	Ratio	Lower	Upper
142	100		
141	93.0	74.1	111.1

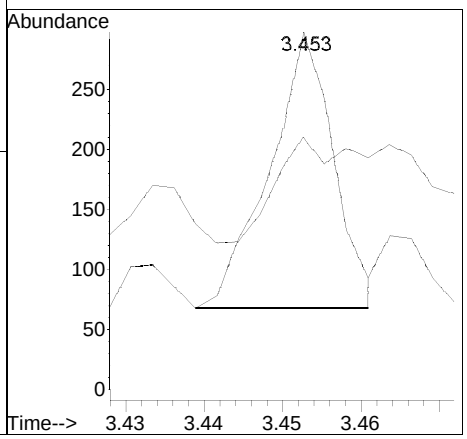


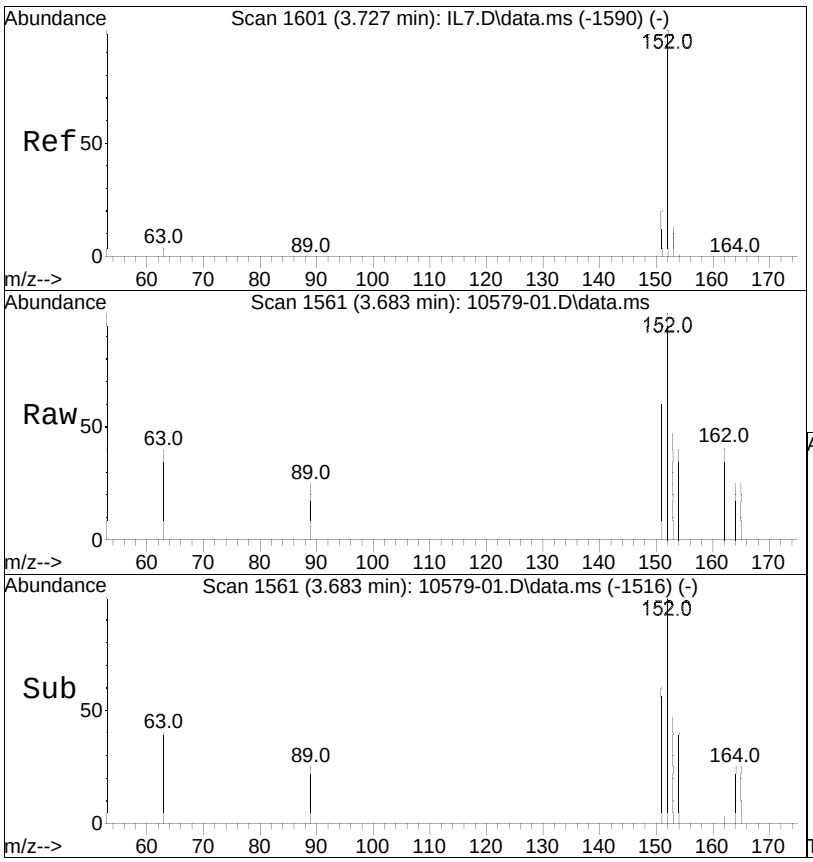


#14
2-Chloronaphthalene
Concen: 4.63 ng/ml
RT: 3.453 min Scan# 1468
Delta R.T. -0.004 min
Lab File: 10579-01.D
Acq: 06 Mar 2024 03:39 am

Tgt Ion:162 Resp: 130

Ion	Ratio	Lower	Upper
162	100		
127	30.8	29.7	44.5

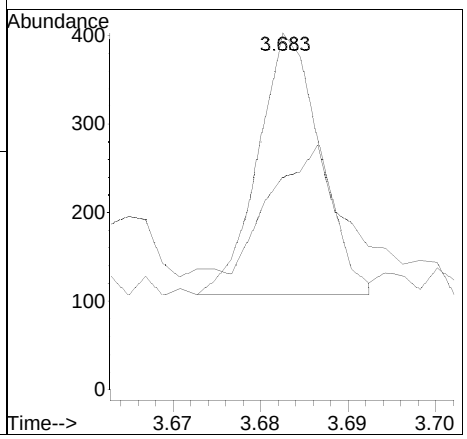


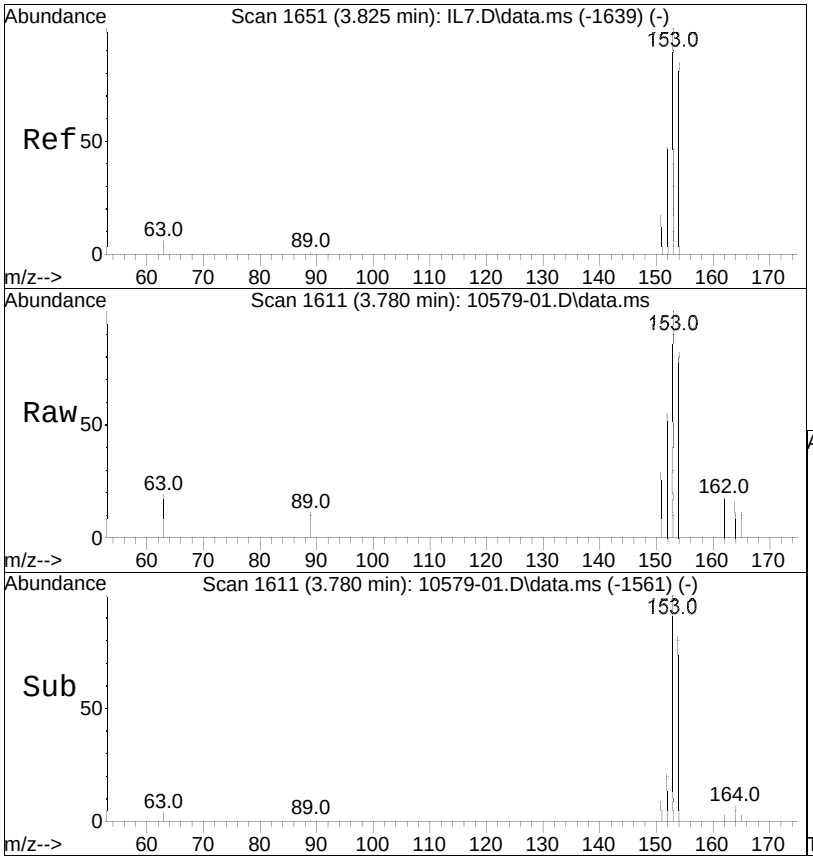


#16
Acenaphthylene
Concen: 3.47 ng/ml M6
RT: 3.683 min Scan# 1561
Delta R.T. -0.003 min
Lab File: 10579-01.D
Acq: 06 Mar 2024 03:39 am

Tgt Ion:152 Resp: 145

Ion	Ratio	Lower	Upper
152	100		
151	46.2	16.0	24.0#

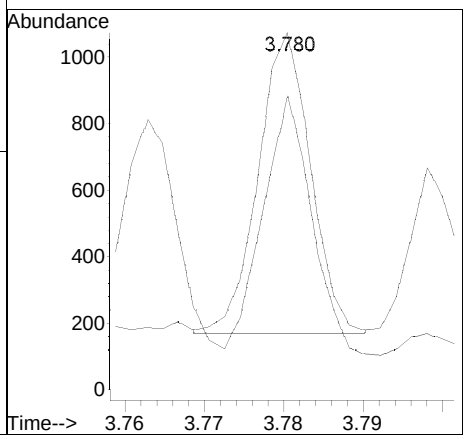


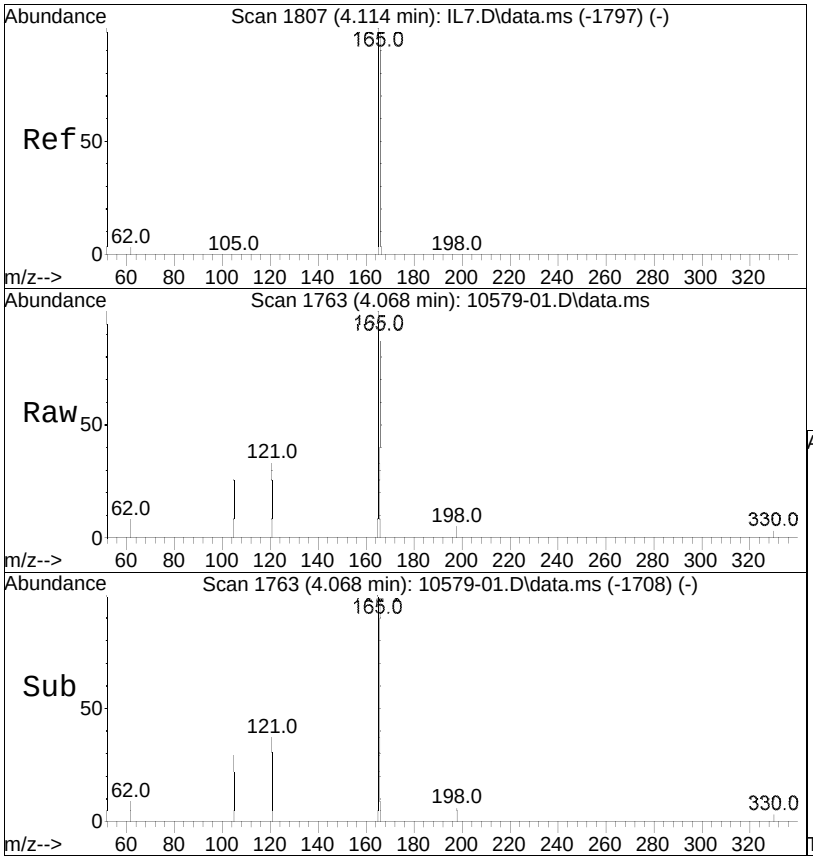


#18
Acenaphthene
Concen: 14.88 ng/ml M6
RT: 3.780 min Scan# 1611
Delta R.T. -0.003 min
Lab File: 10579-01.D
Acq: 06 Mar 2024 03:39 am

Tgt Ion:153 Resp: 415

Ion	Ratio	Lower	Upper
153	100		
154	82.7	66.9	100.3

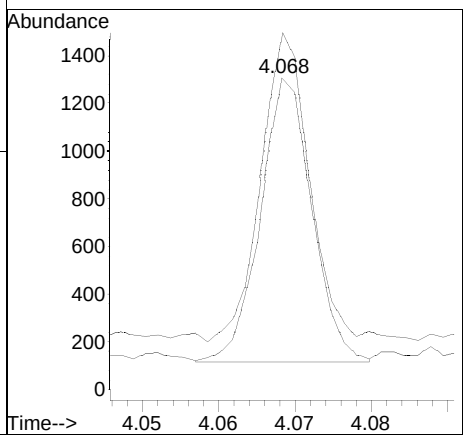


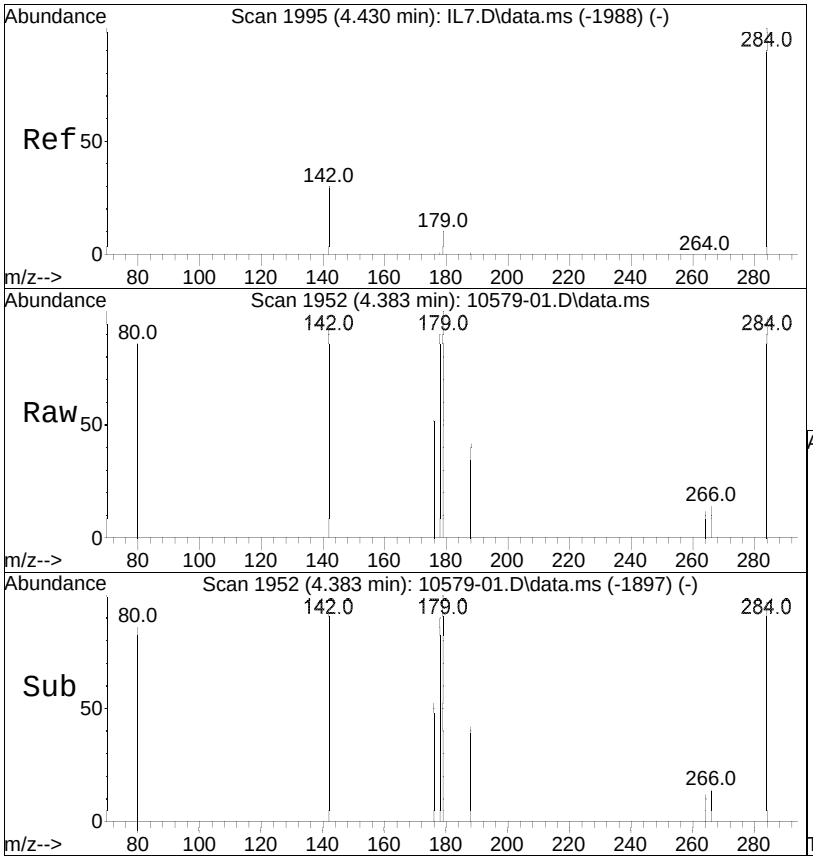


#20
Fluorene
Concen: 16.74 ng/ml M6
RT: 4.068 min Scan# 1763
Delta R.T. -0.002 min
Lab File: 10579-01.D
Acq: 06 Mar 2024 03:39 am

Tgt Ion:166 Resp: 558

Ion	Ratio	Lower	Upper
166	100		
165	105.6	82.9	124.3

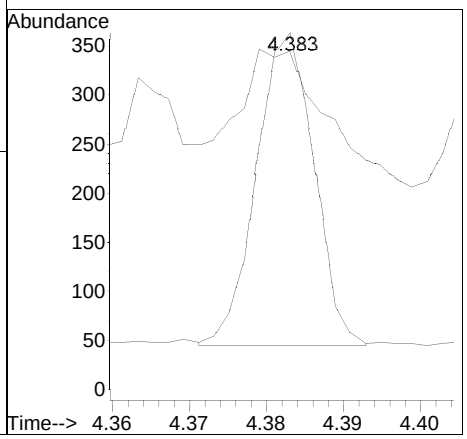


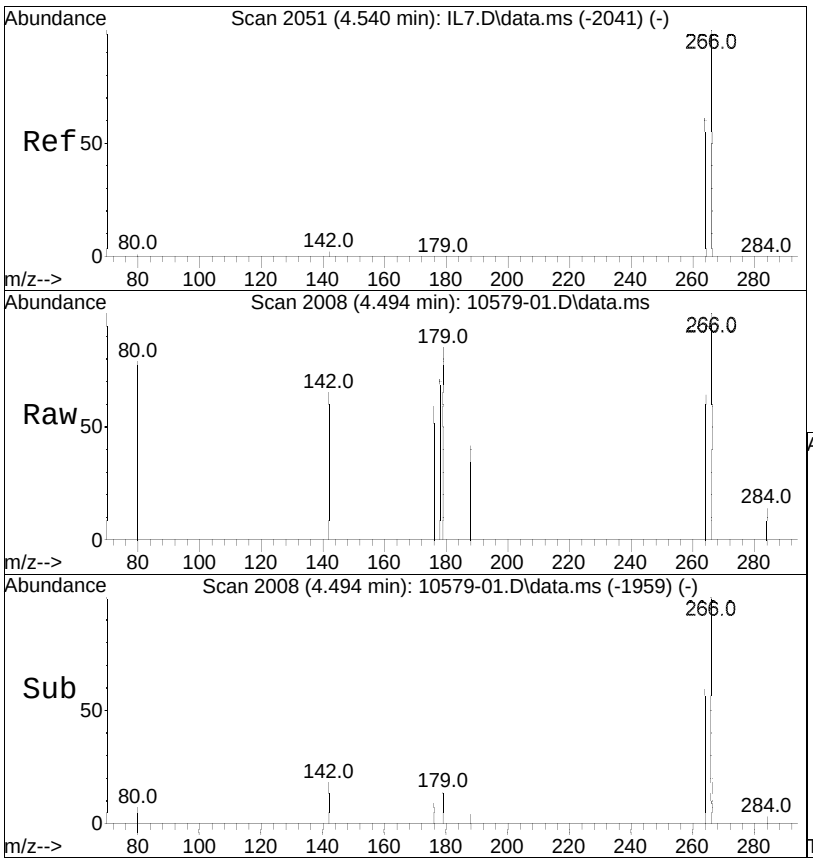


#24
Hexachlorobenzene
Concen: 12.85 ng/ml M6
RT: 4.383 min Scan# 1952
Delta R.T. -0.001 min
Lab File: 10579-01.D
Acq: 06 Mar 2024 03:39 am

Tgt Ion:284 Resp: 165

Ion	Ratio	Lower	Upper
284	100		
142	33.3	26.9	40.3

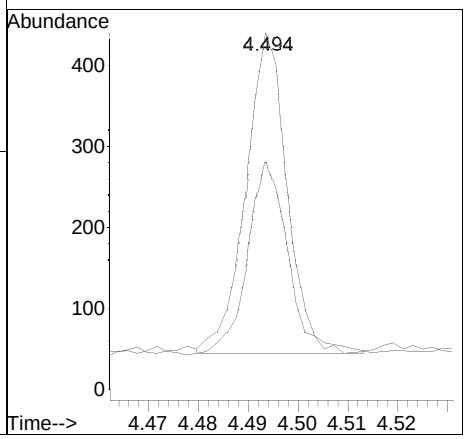


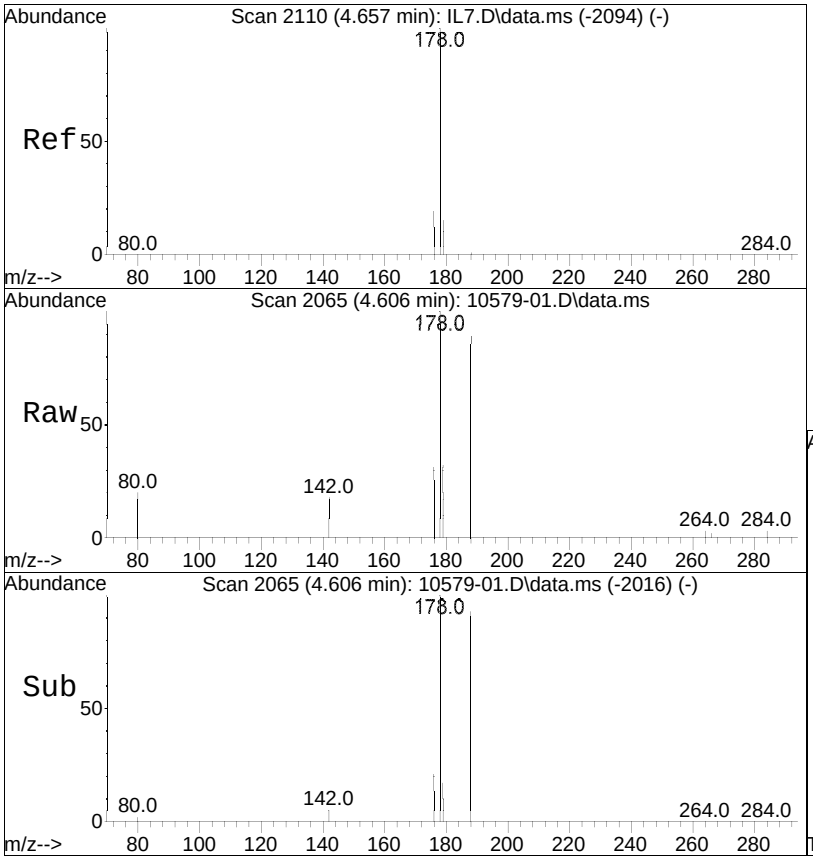


#25
Pentachlorophenol
Concen: 38.96 ng/ml M6
RT: 4.494 min Scan# 2008
Delta R.T. -0.003 min
Lab File: 10579-01.D
Acq: 06 Mar 2024 03:39 am

Tgt Ion:266 Resp: 225

Ion	Ratio	Lower	Upper
266	100		
264	58.7	50.7	76.1

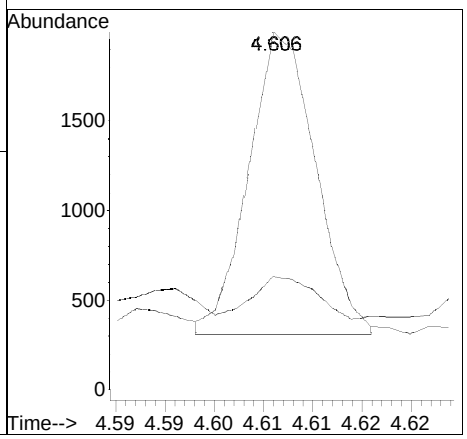


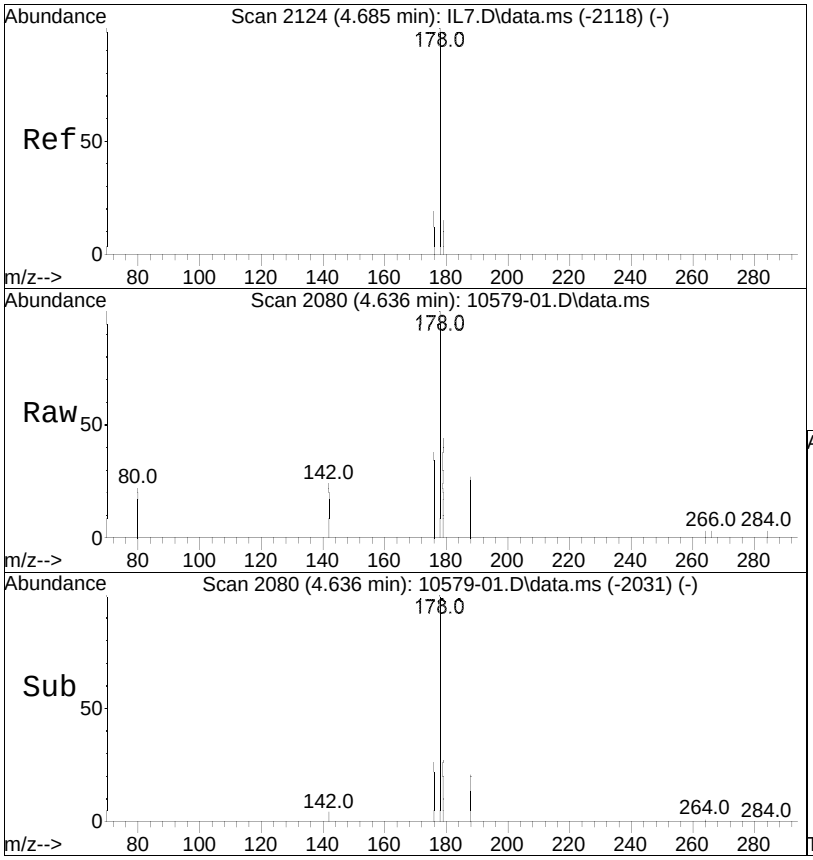


#26
Phenanthrene
Concen: 15.65 ng/ml M6
RT: 4.606 min Scan# 2065
Delta R.T. -0.003 min
Lab File: 10579-01.D
Acq: 06 Mar 2024 03:39 am

Tgt Ion:178 Resp: 790

Ion	Ratio	Lower	Upper
178	100		
179	12.3	12.3	18.5#

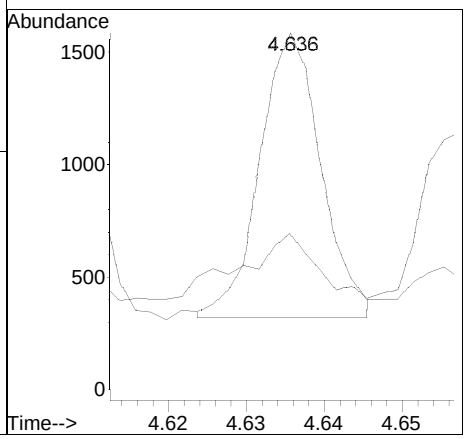


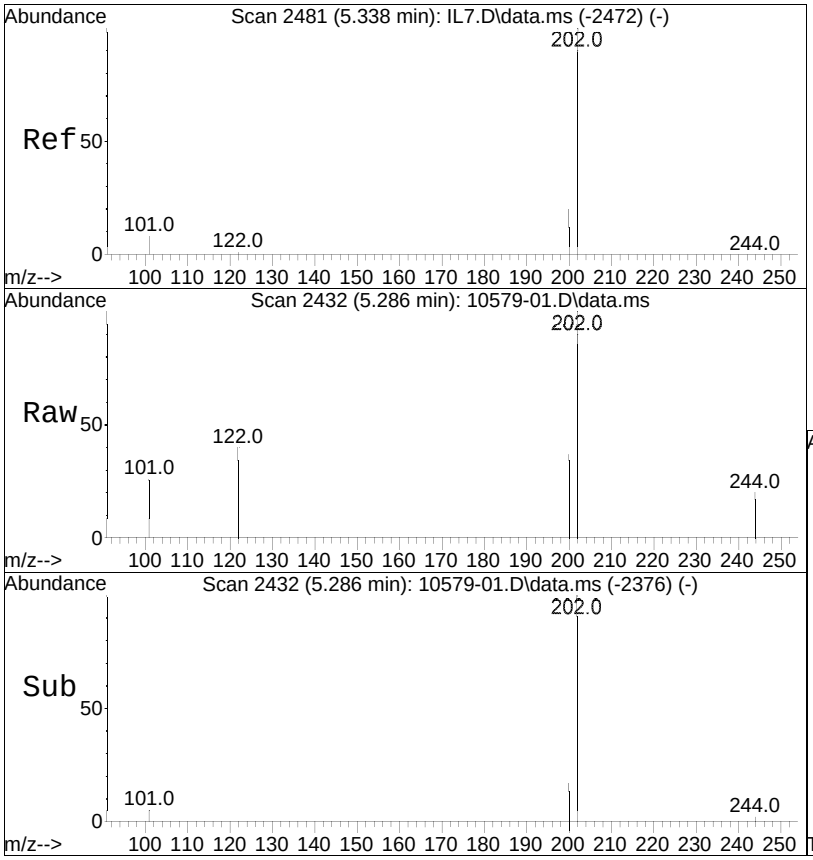


#27
Anthracene
Concen: 13.81 ng/ml M6
RT: 4.636 min Scan# 2080
Delta R.T. -0.003 min
Lab File: 10579-01.D
Acq: 06 Mar 2024 03:39 am

Tgt Ion:178 Resp: 691

Ion	Ratio	Lower	Upper
178	100		
179	15.3	12.2	18.4

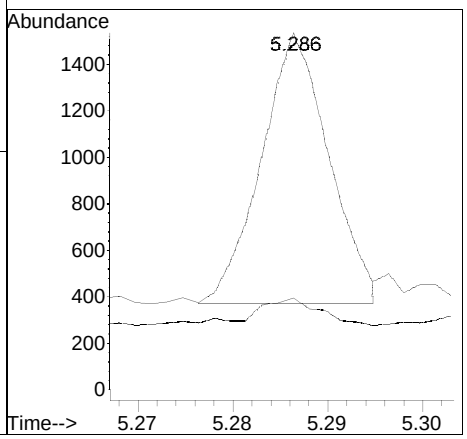


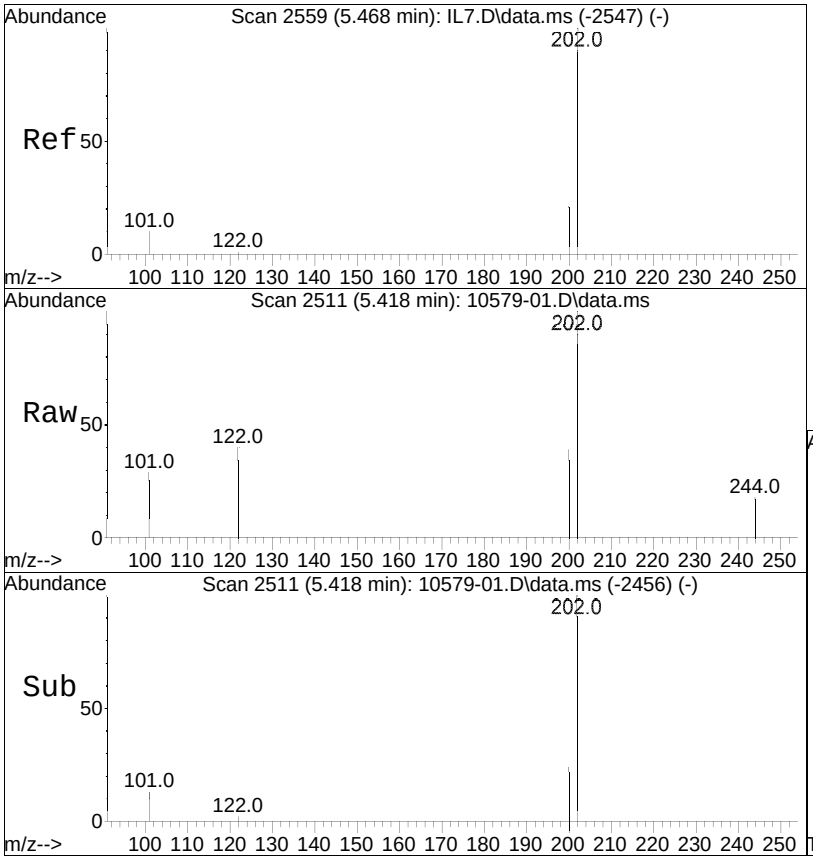


#28
Fluoranthene
Concen: 8.63 ng/ml M6
RT: 5.286 min Scan# 2432
Delta R.T. -0.007 min
Lab File: 10579-01.D
Acq: 06 Mar 2024 03:39 am

Tgt Ion:202 Resp: 574

Ion	Ratio	Lower	Upper
202	100		
101	10.1	8.3	12.5

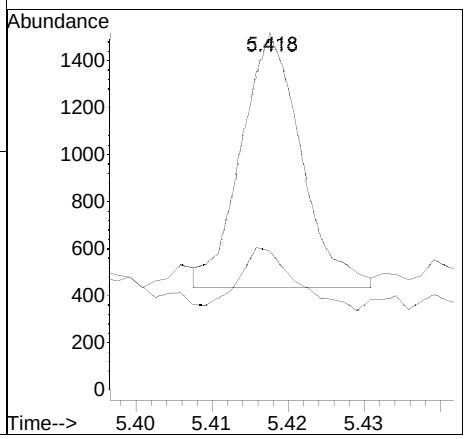


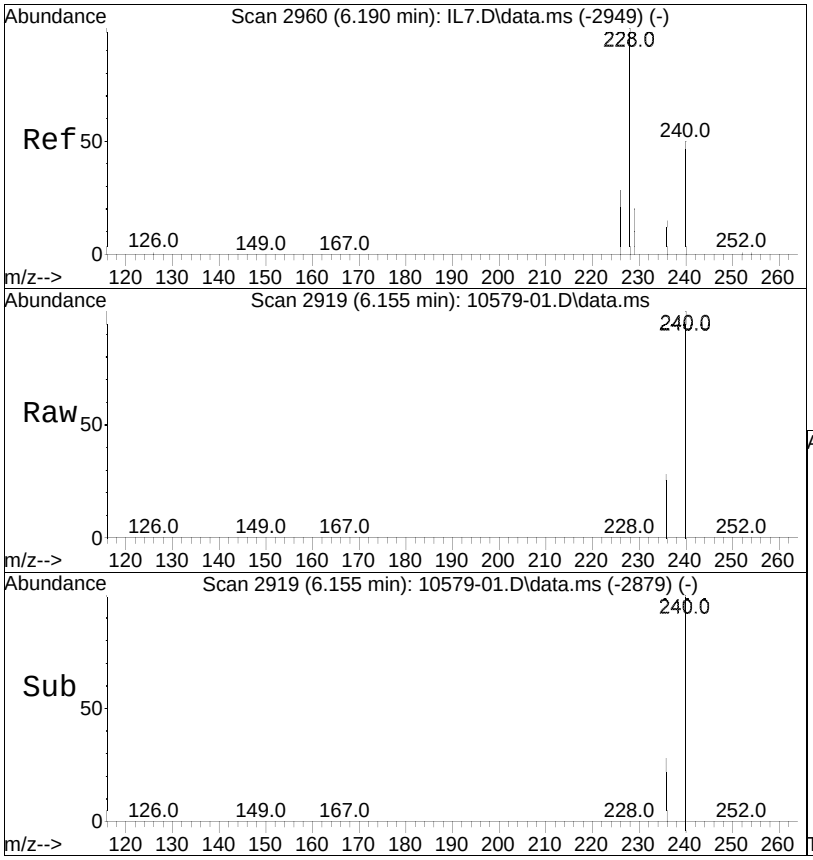


#29
Pyrene
Concen: 8.65 ng/ml M6
RT: 5.418 min Scan# 2511
Delta R.T. -0.009 min
Lab File: 10579-01.D
Acq: 06 Mar 2024 03:39 am

Tgt Ion:202 Resp: 591

Ion	Ratio	Lower	Upper
202	100		
200	23.5	17.3	25.9

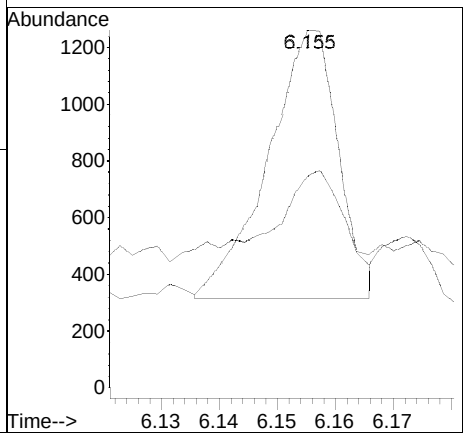


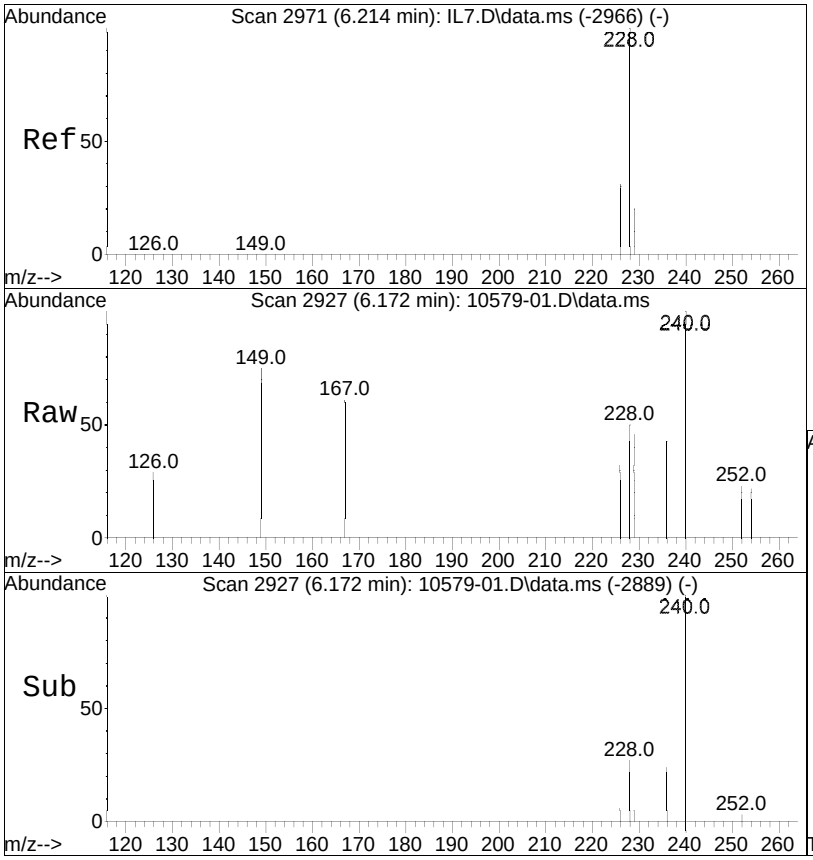


#32
Benzo[a]anthracene
Concen: 3.89 ng/ml M4
RT: 6.155 min Scan# 2919
Delta R.T. -0.014 min
Lab File: 10579-01.D
Acq: 06 Mar 2024 03:39 am

Tgt Ion:228 Resp: 790

Ion	Ratio	Lower	Upper
228	100		
229	25.6	15.6	23.4#

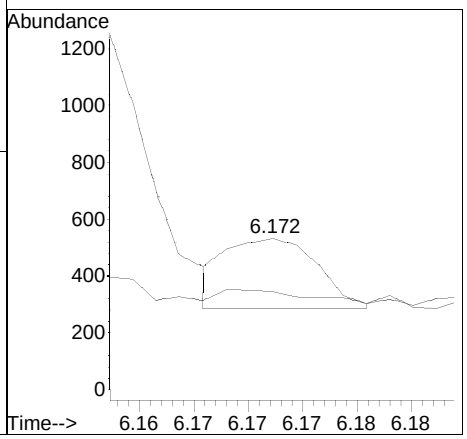


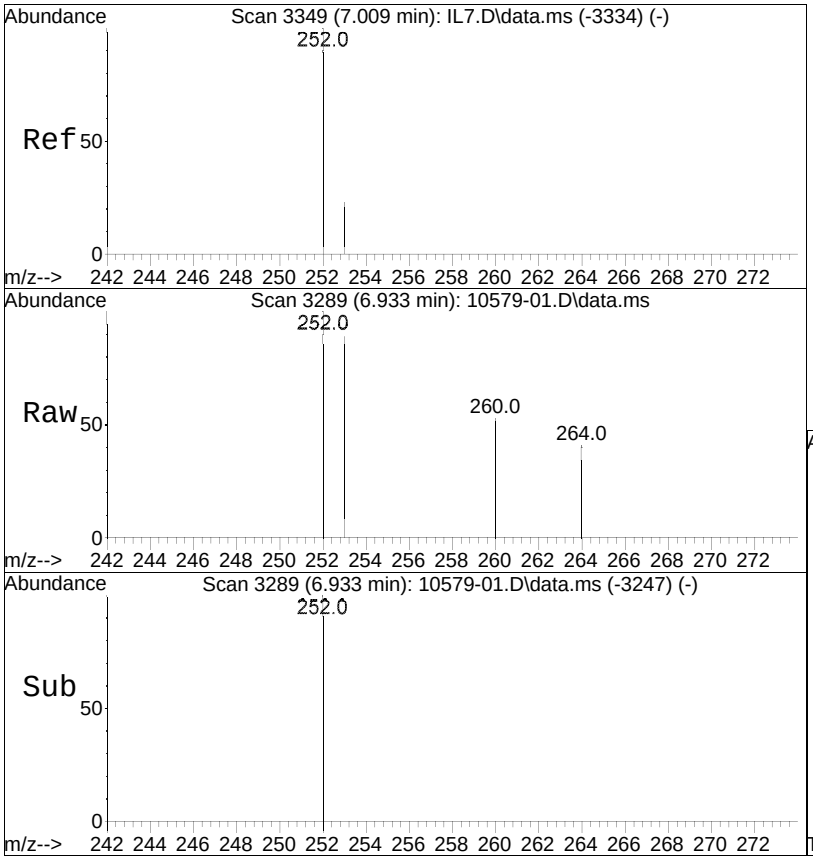


#34
Chrysene
Concen: 2.66 ng/ml M6
RT: 6.172 min Scan# 2927
Delta R.T. -0.018 min
Lab File: 10579-01.D
Acq: 06 Mar 2024 03:39 am

Tgt Ion:228 Resp: 143

Ion	Ratio	Lower	Upper
228	100		
226	23.8	24.5	36.7#

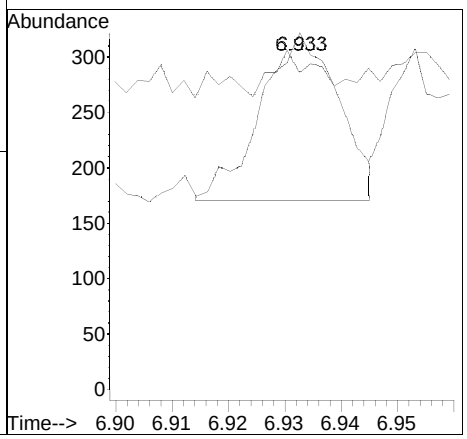


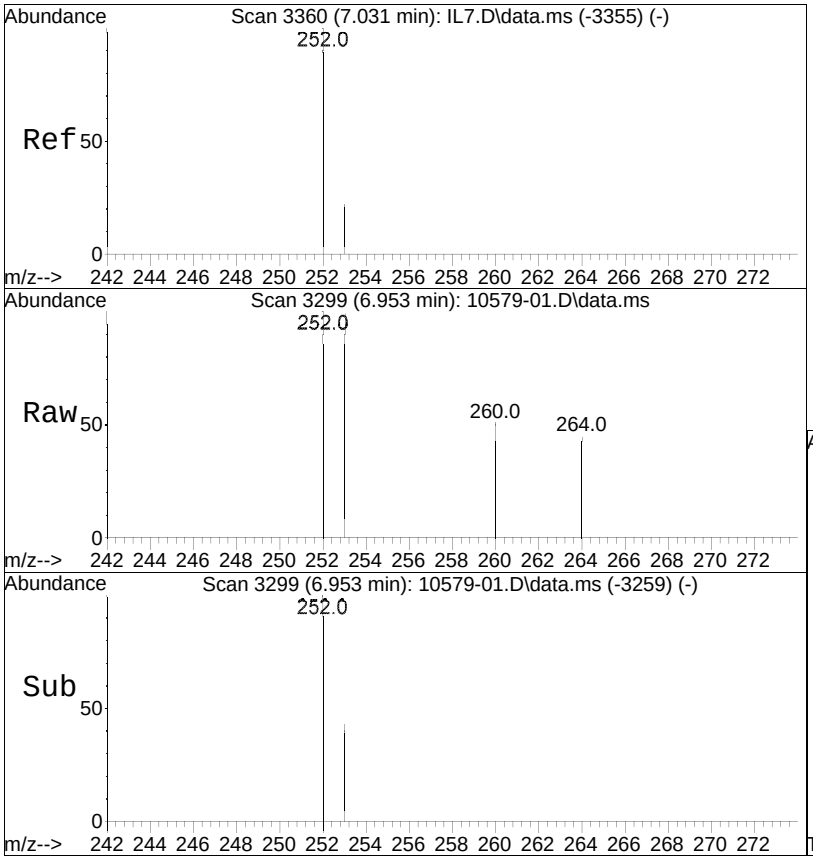


#37
Benzo[b]fluoranthene
Concen: 2.43 ng/ml M6
RT: 6.933 min Scan# 3289
Delta R.T. -0.014 min
Lab File: 10579-01.D
Acq: 06 Mar 2024 03:39 am

Tgt Ion:252 Resp: 143

Ion	Ratio	Lower	Upper
252	100		
253	17.5	17.3	25.9

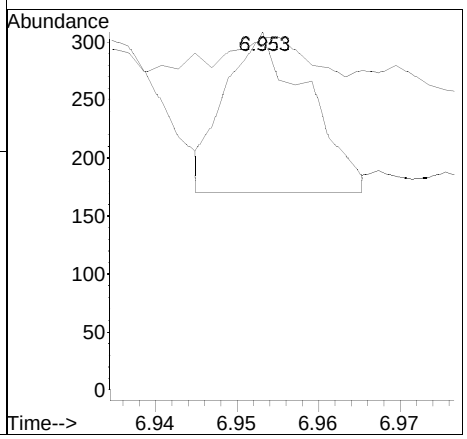




#38
Benzo[k]fluoranthene
Concen: 1.72 ng/ml M6
RT: 6.953 min Scan# 3299
Delta R.T. -0.018 min
Lab File: 10579-01.D
Acq: 06 Mar 2024 03:39 am

Tgt Ion:252 Resp: 96

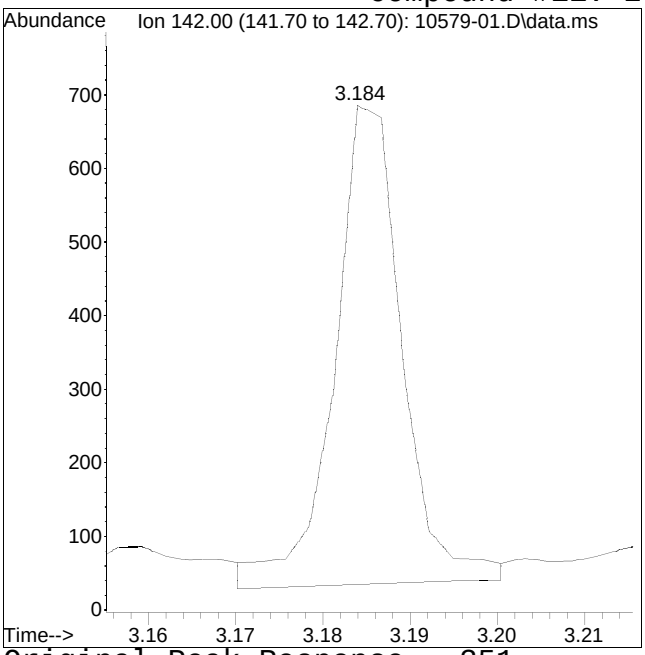
Ion	Ratio	Lower	Upper
252	100		
253	27.1	17.4	26.2#



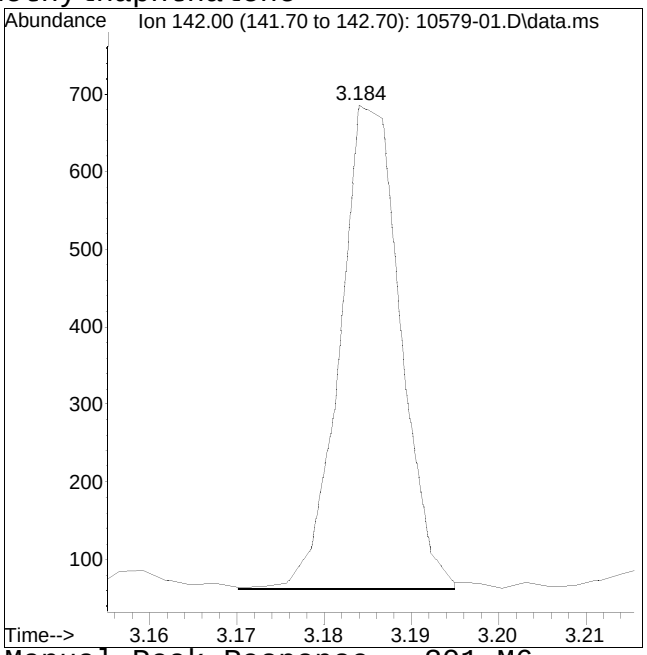
Manual Integration Report

Data Path : I:\8270SIM\sv119\240305nLVQMethod : SIM-LVI_231207n_sv119.M
Data File : 10579-01.D Operator : sv119:ah
Date Inj'd : 3/6/2024 3:39 am Instrument : SV119
Sample : L2410579-01,32,,RE,mrg Quant Date : 3/6/2024 3:54 am

Compound #11: 2-Methylnaphthalene



Original Peak Response = 351



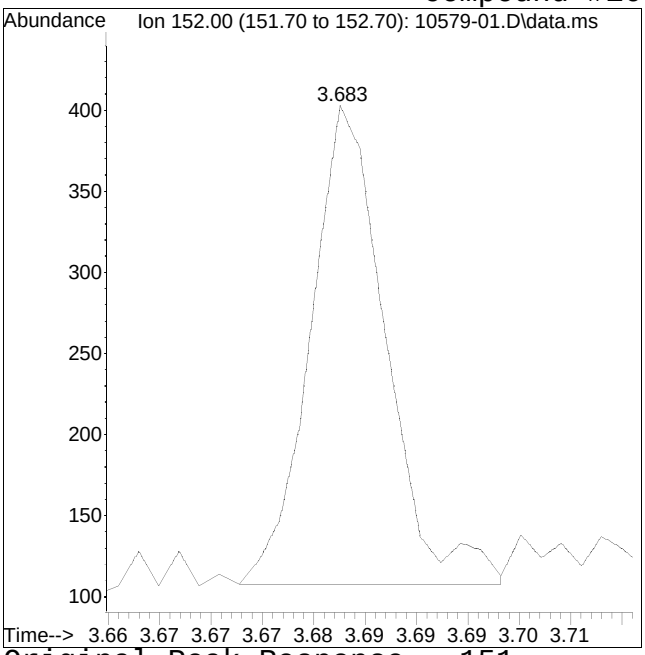
Manual Peak Response = 301 M6

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

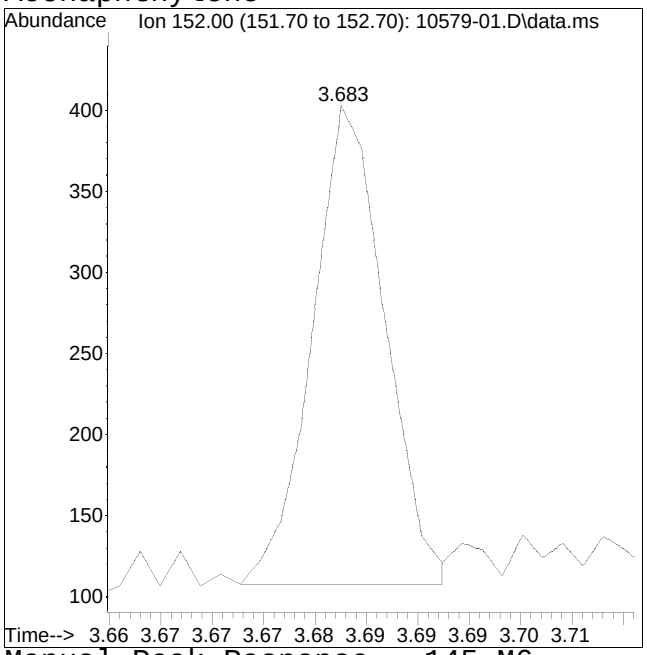
Manual Integration Report

Data Path : I:\8270SIM\sv119\240305nLVQMethod : SIM-LVI_231207n_sv119.M
Data File : 10579-01.D Operator : sv119:ah
Date Inj'd : 3/6/2024 3:39 am Instrument : SV119
Sample : L2410579-01,32,,RE,mrg Quant Date : 3/6/2024 3:54 am

Compound #16: Acenaphthylene



Original Peak Response = 151



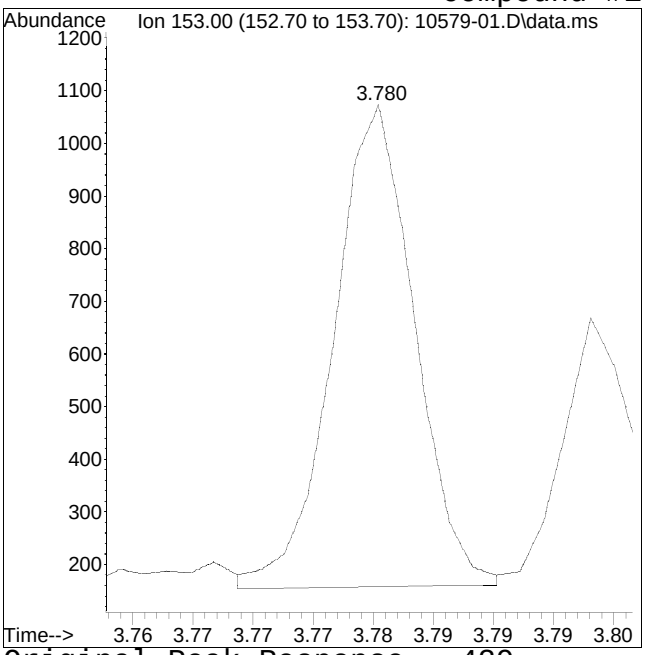
Manual Peak Response = 145 M6

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

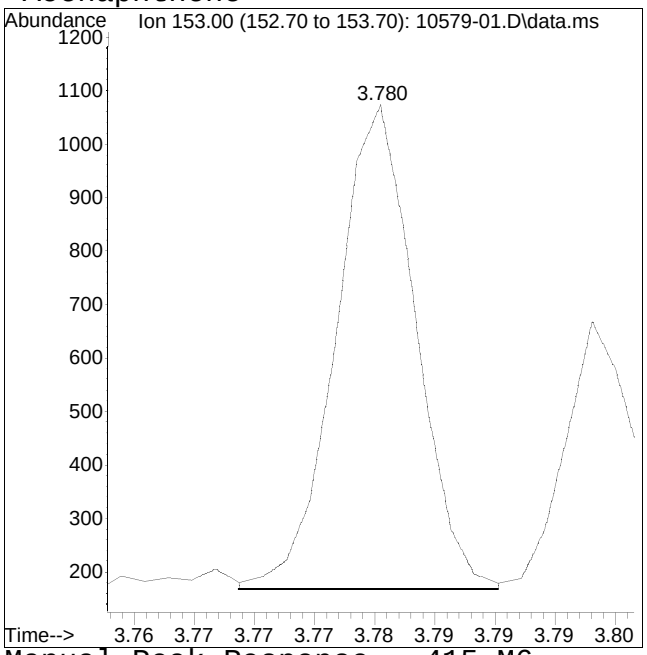
Manual Integration Report

Data Path : I:\8270SIM\sv119\240305nLVQMethod : SIM-LVI_231207n_sv119.M
Data File : 10579-01.D Operator : sv119:ah
Date Inj'd : 3/6/2024 3:39 am Instrument : SV119
Sample : L2410579-01,32,,RE,mrg Quant Date : 3/6/2024 3:54 am

Compound #18: Acenaphthene



Original Peak Response = 429



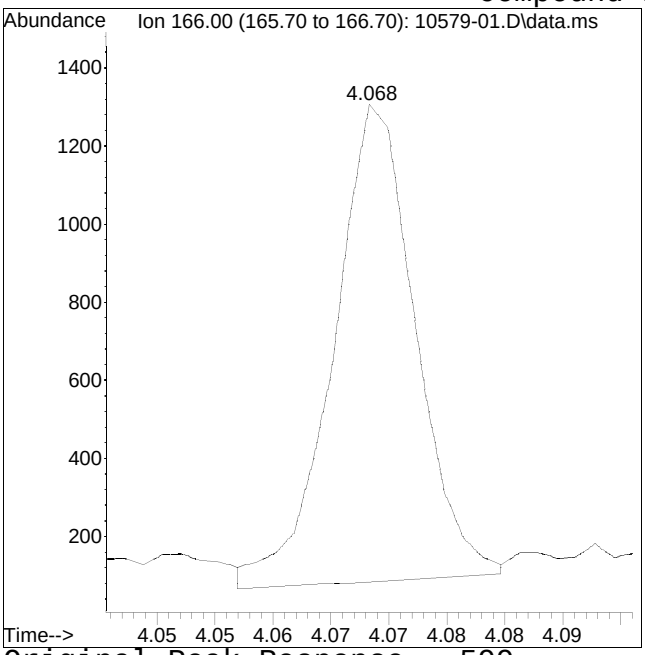
Manual Peak Response = 415 M6

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

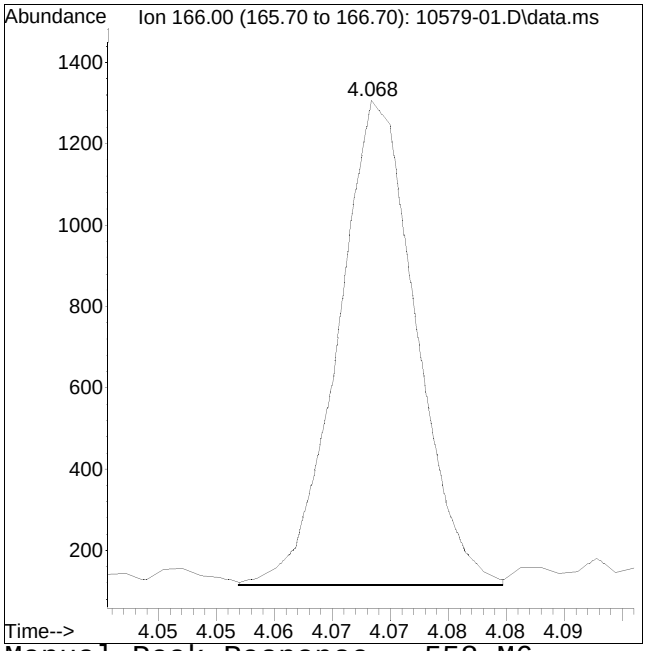
Manual Integration Report

Data Path : I:\8270SIM\sv119\240305nLVQMethod : SIM-LVI_231207n_sv119.M
Data File : 10579-01.D Operator : sv119:ah
Date Inj'd : 3/6/2024 3:39 am Instrument : SV119
Sample : L2410579-01,32,,RE,mrg Quant Date : 3/6/2024 3:54 am

Compound #20: Fluorene



Original Peak Response = 599



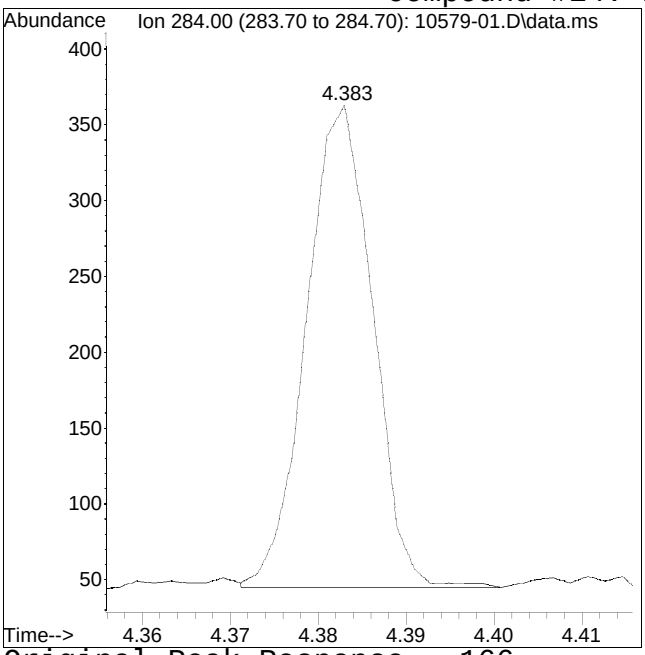
Manual Peak Response = 558 M6

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

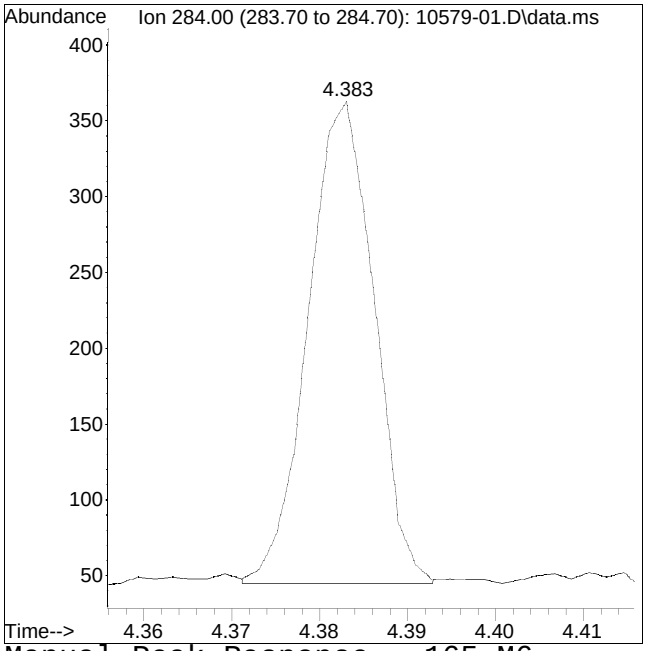
Manual Integration Report

Data Path : I:\8270SIM\sv119\240305nLVQMethod : SIM-LVI_231207n_sv119.M
Data File : 10579-01.D Operator : sv119:ah
Date Inj'd : 3/6/2024 3:39 am Instrument : SV119
Sample : L2410579-01,32,,RE,mrg Quant Date : 3/6/2024 3:54 am

Compound #24: Hexachlorobenzene



Original Peak Response = 166



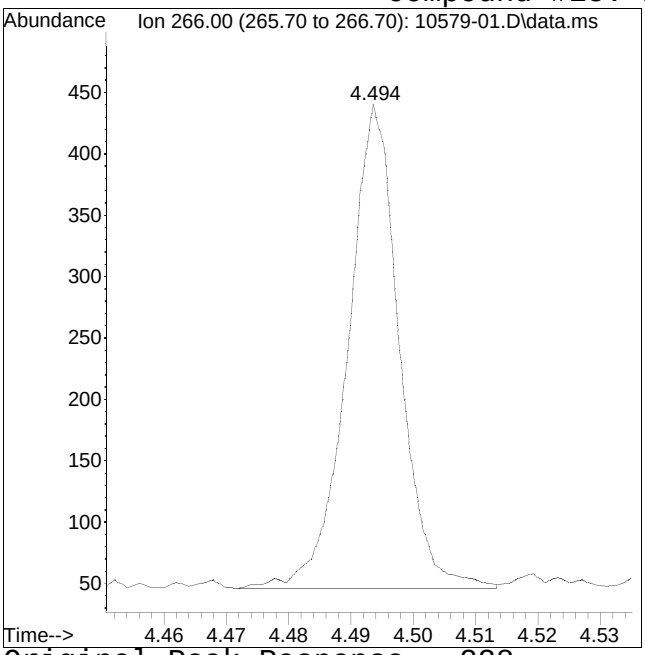
Manual Peak Response = 165 M6

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

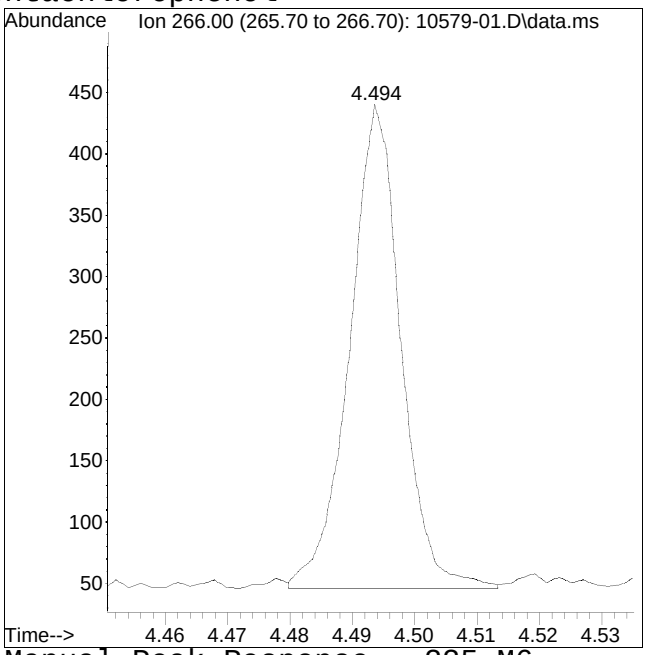
Manual Integration Report

Data Path : I:\8270SIM\sv119\240305nLVQMethod : SIM-LVI_231207n_sv119.M
Data File : 10579-01.D Operator : sv119:ah
Date Inj'd : 3/6/2024 3:39 am Instrument : SV119
Sample : L2410579-01,32,,RE,mrg Quant Date : 3/6/2024 3:54 am

Compound #25: Pentachlorophenol



Original Peak Response = 228



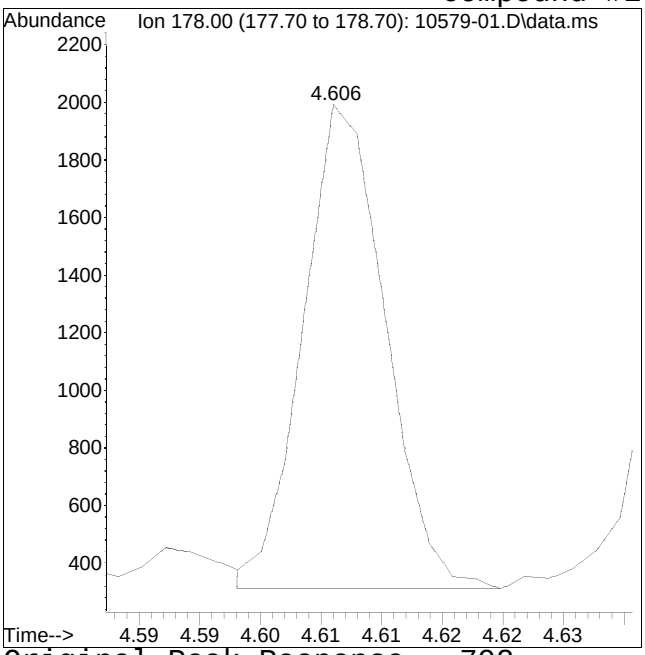
Manual Peak Response = 225 M6

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

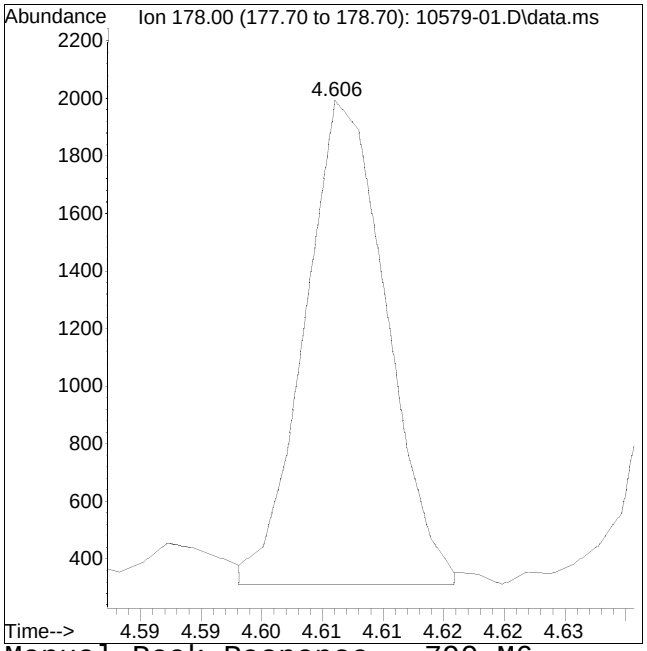
Manual Integration Report

Data Path : I:\8270SIM\sv119\240305nLVQMethod : SIM-LVI_231207n_sv119.M
Data File : 10579-01.D Operator : sv119:ah
Date Inj'd : 3/6/2024 3:39 am Instrument : SV119
Sample : L2410579-01,32,,RE,mrg Quant Date : 3/6/2024 3:54 am

Compound #26: Phenanthrene



Original Peak Response = 792



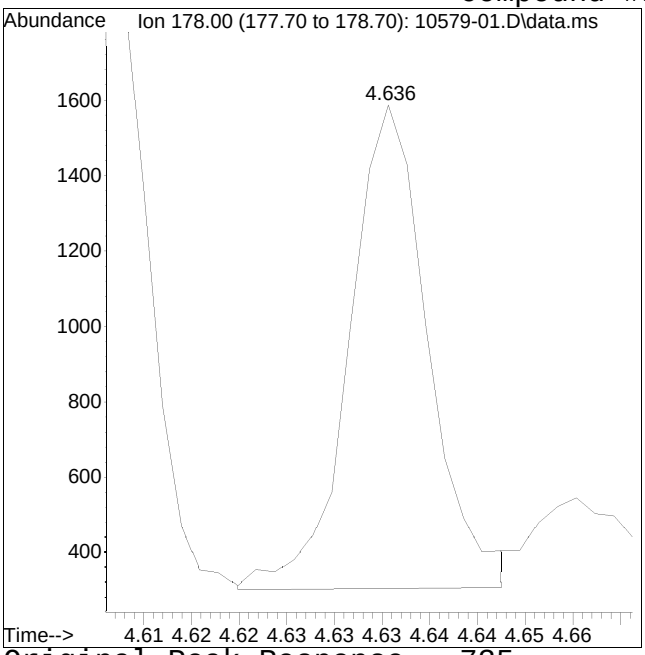
Manual Peak Response = 790 M6

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

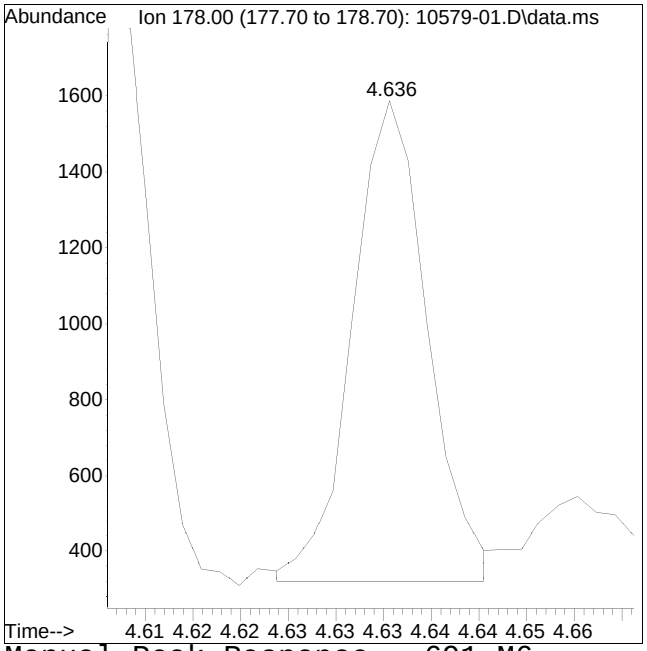
Manual Integration Report

Data Path : I:\8270SIM\sv119\240305nLVQMethod : SIM-LVI_231207n_sv119.M
Data File : 10579-01.D Operator : sv119:ah
Date Inj'd : 3/6/2024 3:39 am Instrument : SV119
Sample : L2410579-01,32,,RE,mrg Quant Date : 3/6/2024 3:54 am

Compound #27: Anthracene



Original Peak Response = 735



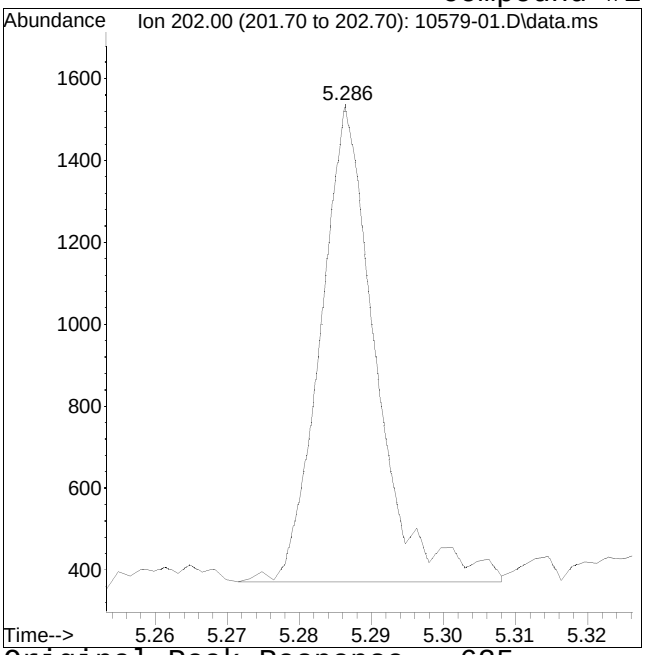
Manual Peak Response = 691 M6

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

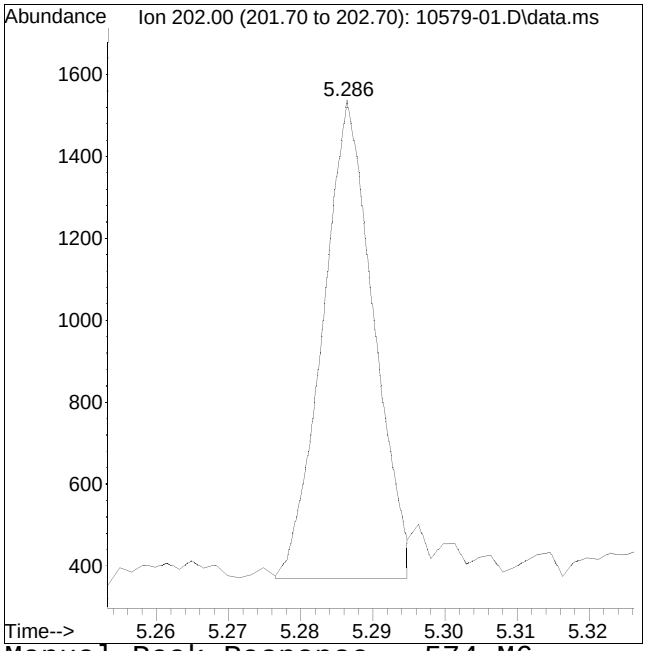
Manual Integration Report

Data Path : I:\8270SIM\sv119\240305nLVQMethod : SIM-LVI_231207n_sv119.M
Data File : 10579-01.D Operator : sv119:ah
Date Inj'd : 3/6/2024 3:39 am Instrument : SV119
Sample : L2410579-01,32,,RE,mrg Quant Date : 3/6/2024 3:54 am

Compound #28: Fluoranthene



Original Peak Response = 625



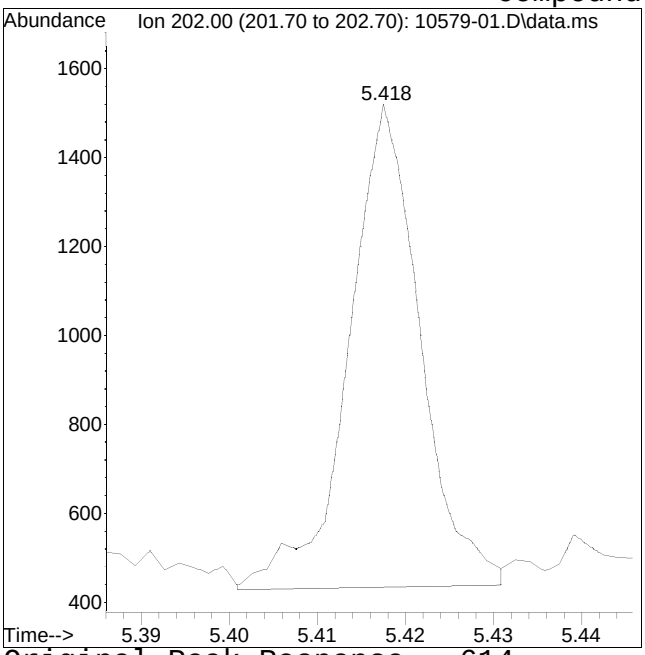
Manual Peak Response = 574 M6

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

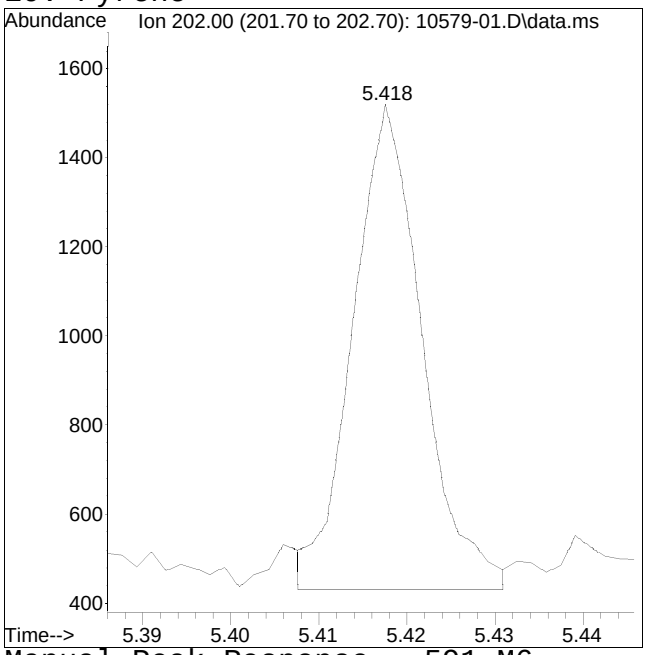
Manual Integration Report

Data Path : I:\8270SIM\sv119\240305nLVQMethod : SIM-LVI_231207n_sv119.M
Data File : 10579-01.D Operator : sv119:ah
Date Inj'd : 3/6/2024 3:39 am Instrument : SV119
Sample : L2410579-01,32,,RE,mrg Quant Date : 3/6/2024 3:54 am

Compound #29: Pyrene



Original Peak Response = 614



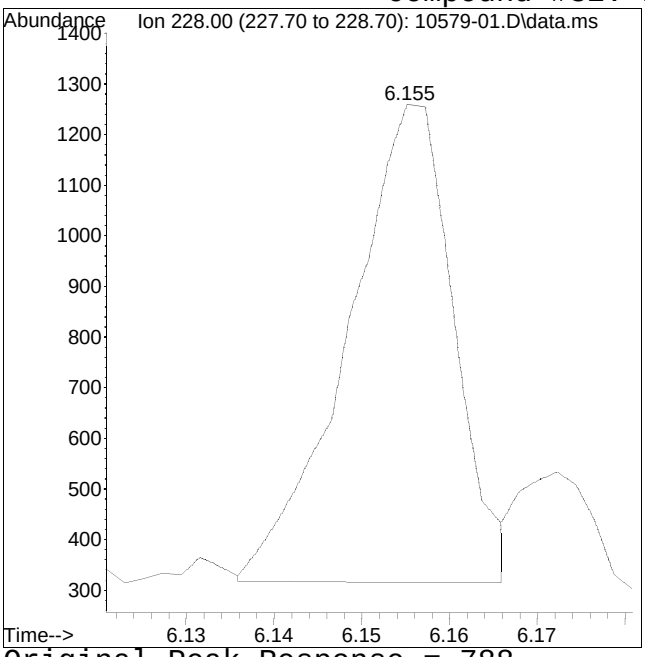
Manual Peak Response = 591 M6

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

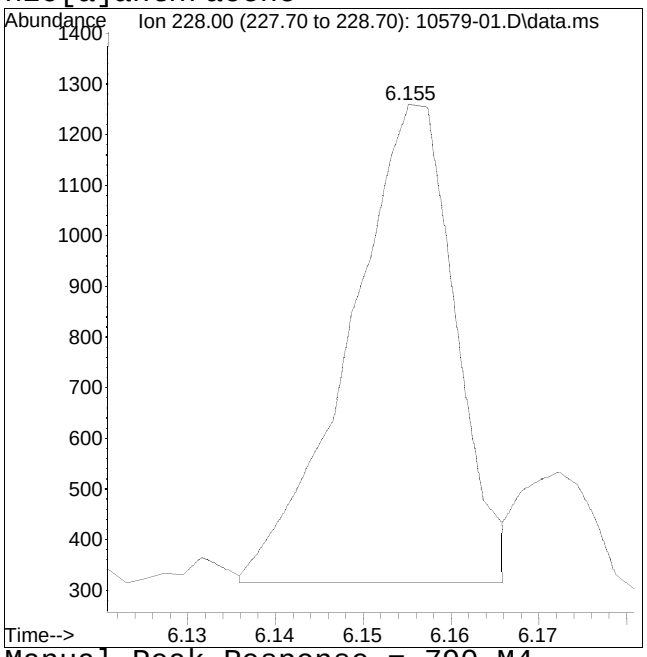
Manual Integration Report

Data Path : I:\8270SIM\sv119\240305nLVQMethod : SIM-LVI_231207n_sv119.M
Data File : 10579-01.D Operator : sv119:ah
Date Inj'd : 3/6/2024 3:39 am Instrument : SV119
Sample : L2410579-01,32,,RE,mrg Quant Date : 3/6/2024 3:54 am

Compound #32: Benzo[a]anthracene



Original Peak Response = 788



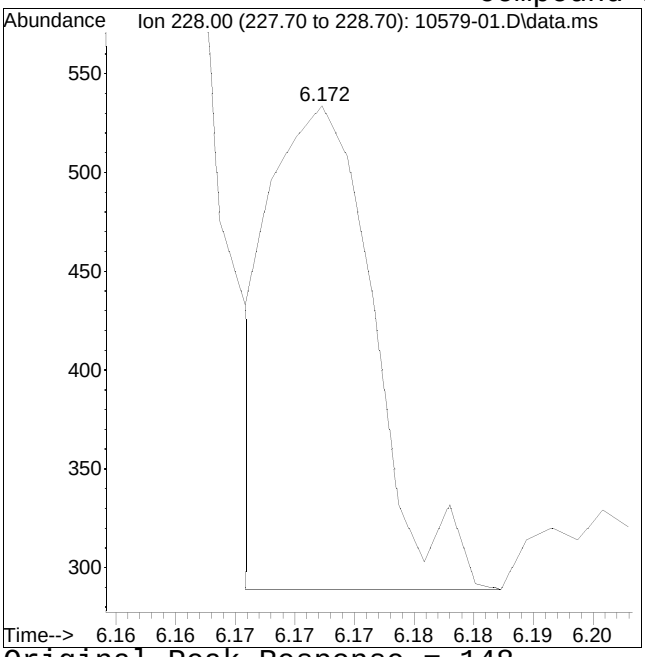
Manual Peak Response = 790 M4

M4 = Poor automated baseline construction.

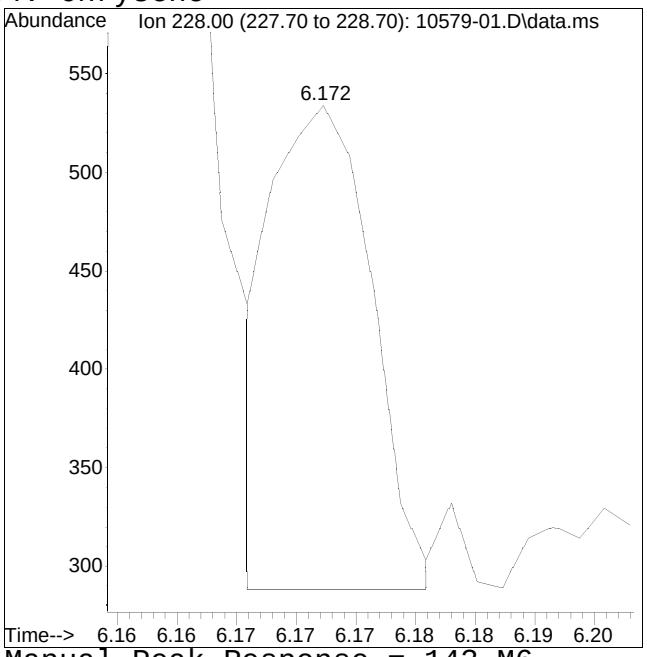
Manual Integration Report

Data Path : I:\8270SIM\sv119\240305nLVQMethod : SIM-LVI_231207n_sv119.M
Data File : 10579-01.D Operator : sv119:ah
Date Inj'd : 3/6/2024 3:39 am Instrument : SV119
Sample : L2410579-01,32,,RE,mrg Quant Date : 3/6/2024 3:54 am

Compound #34: Chrysene



Original Peak Response = 148



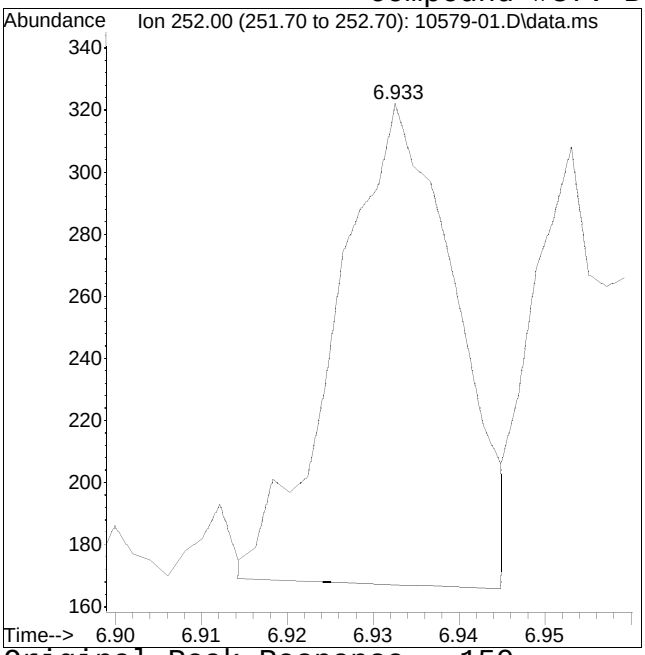
Manual Peak Response = 143 M6

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

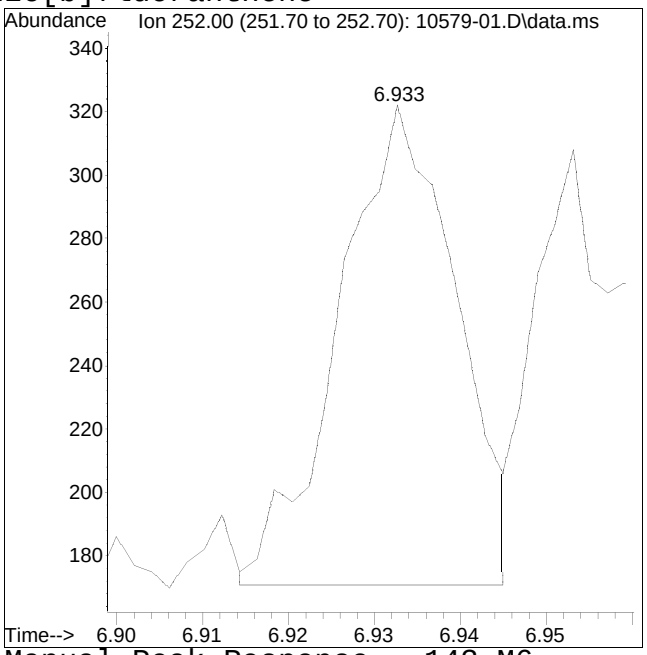
Manual Integration Report

Data Path : I:\8270SIM\sv119\240305nLVQMethod : SIM-LVI_231207n_sv119.M
Data File : 10579-01.D Operator : sv119:ah
Date Inj'd : 3/6/2024 3:39 am Instrument : SV119
Sample : L2410579-01,32,,RE,mrg Quant Date : 3/6/2024 3:54 am

Compound #37: Benzo[b]fluoranthene



Original Peak Response = 150



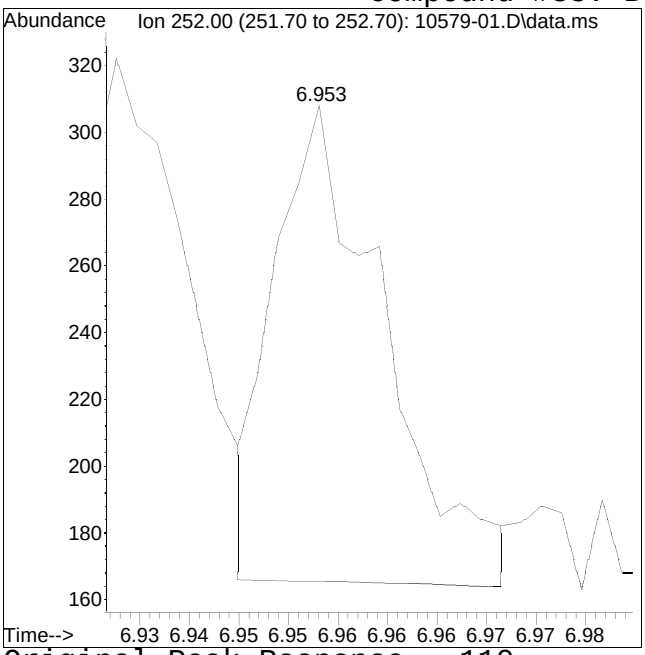
Manual Peak Response = 143 M6

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

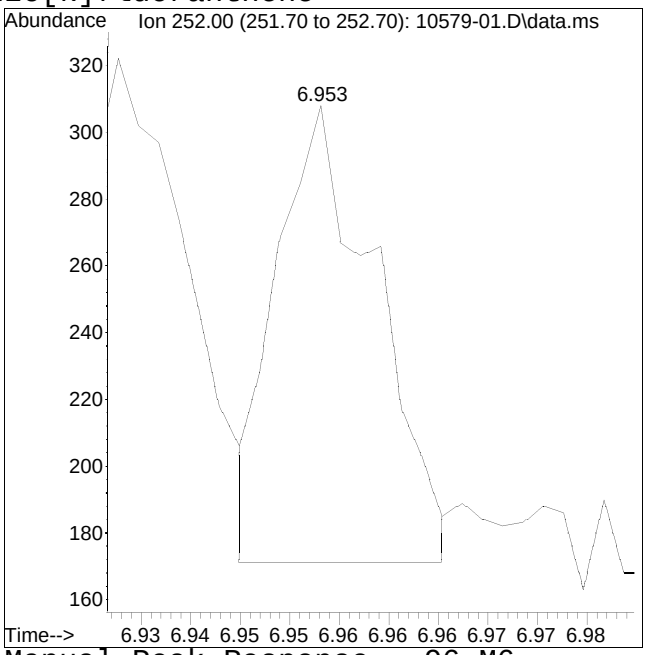
Manual Integration Report

Data Path : I:\8270SIM\sv119\240305nLVQMethod : SIM-LVI_231207n_sv119.M
Data File : 10579-01.D Operator : sv119:ah
Date Inj'd : 3/6/2024 3:39 am Instrument : SV119
Sample : L2410579-01,32,,RE,mrg Quant Date : 3/6/2024 3:54 am

Compound #38: Benzo[k]fluoranthene



Original Peak Response = 110



Manual Peak Response = 96 M6

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\240306LVI\
Data File : 10579-04.D
Acq On : 06 Mar 2024 08:33 am
Operator : sv119:jjw
Sample : L2410579-04,32,,ah
Misc : WG1892736,WG1892407,ical20642
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 06 09:55:16 2024
Quant Method : I:\8270sim\sv119\240306LVI\SIM-LVI_231207n_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Mar 06 07:14:42 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv119\240306LVI\ccv0306.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.133	152	43124	4000.000	ng/ml	0.00
Standard Area 1 = 46268			Recovery = 93.20%			
8) Naphthalene-d8	2.795	136	152780	4000.000	ng/ml	0.00
Standard Area 1 = 165599			Recovery = 92.26%			
17) Acenaphthene-d10	3.759	164	88835	4000.000	ng/ml	0.00
Standard Area 1 = 97417			Recovery = 91.19%			
22) Phenanthrene-d10	4.590	188	193974	4000.000	ng/ml	0.00
Standard Area 1 = 225040			Recovery = 86.20%			
31) Chrysene-d12	6.155	240	175912	4000.000	ng/ml	-0.02
Standard Area 1 = 198834			Recovery = 88.47%			
36) Perylene-d12	7.270	264	167257	4000.000	ng/ml	-0.02
Standard Area 1 = 192010			Recovery = 87.11%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.541	112	30856	2615.994	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 52.32%			
3) Phenol-d6	1.951	99	31556	2231.881	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 44.64%			
7) Nitrobenzene-d5	2.414	82	19011	1772.617	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 70.90%			
13) 2-Fluorobiphenyl	3.387	172	53573	1570.058	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 62.80%			
21) 2,4,6-Tribromophenol	4.201	330	16440	3356.736	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 67.13%			
30) 4-Terphenyl-d14	5.517	244	63663	1338.810	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 53.55%			
Target Compounds						Qvalue
6) Hexachloroethane	0.000		0	N.D.	d	
9) Naphthalene	2.804	128	277	7.593	ng/ml	99
10) Hexachlorobutadiene	0.000		0	N.D.	d	
11) 2-Methylnaphthalene	3.181	142	69	2.558	ng/ml	100
14) 2-Chloronaphthalene	0.000		0	N.D.	d	
16) Acenaphthylene	0.000		0	N.D.	d	
18) Acenaphthene	0.000		0	N.D.	d	
20) Fluorene	0.000		0	N.D.	d	
24) Hexachlorobenzene	0.000		0	N.D.	d	
25) Pentachlorophenol	0.000		0	N.D.	d	

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\240306LVI\
Data File : 10579-04.D
Acq On : 06 Mar 2024 08:33 am
Operator : sv119:jjw
Sample : L2410579-04,32,,ah
Misc : WG1892736,WG1892407,ical20642
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 06 09:55:16 2024
Quant Method : I:\8270sim\sv119\240306LVI\SIM-LVI_231207n_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Mar 06 07:14:42 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv119\240306LVI\ccv0306.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Phenanthrene	4.602	178	118M1	2.395	ng/ml	
27) Anthracene	4.632	178	72M1	1.474	ng/ml	
28) Fluoranthene	0.000		0	N.D.	d	
29) Pyrene	0.000		0	N.D.	d	
32) Benzo[a]anthracene	0.000		0	N.D.	d	
34) Chrysene	0.000		0	N.D.	d	
37) Benzo[b]fluoranthene	0.000		0	N.D.	d	
38) Benzo[k]fluoranthene	0.000		0	N.D.	d	
39) Benzo[a]pyrene	0.000		0	N.D.	d	
40) Indeno[1,2,3-cd]pyrene	0.000		0	N.D.	d	
41) Dibenzo[a,h]anthracene	0.000		0	N.D.	d	
42) Benzo[g,h,i]perylene	0.000		0	N.D.	d	

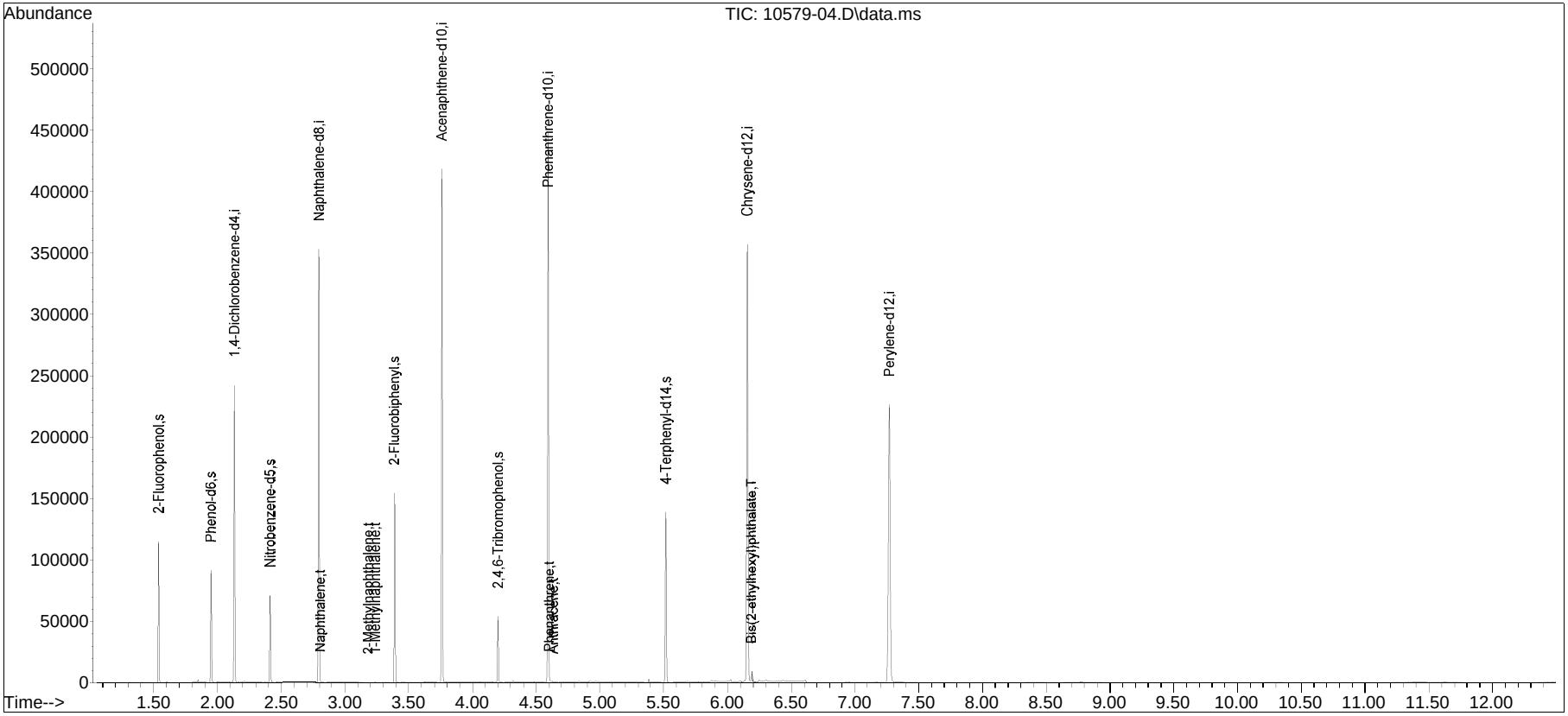
(#) = qualifier out of range (m) = manual integration (+) = signals summed

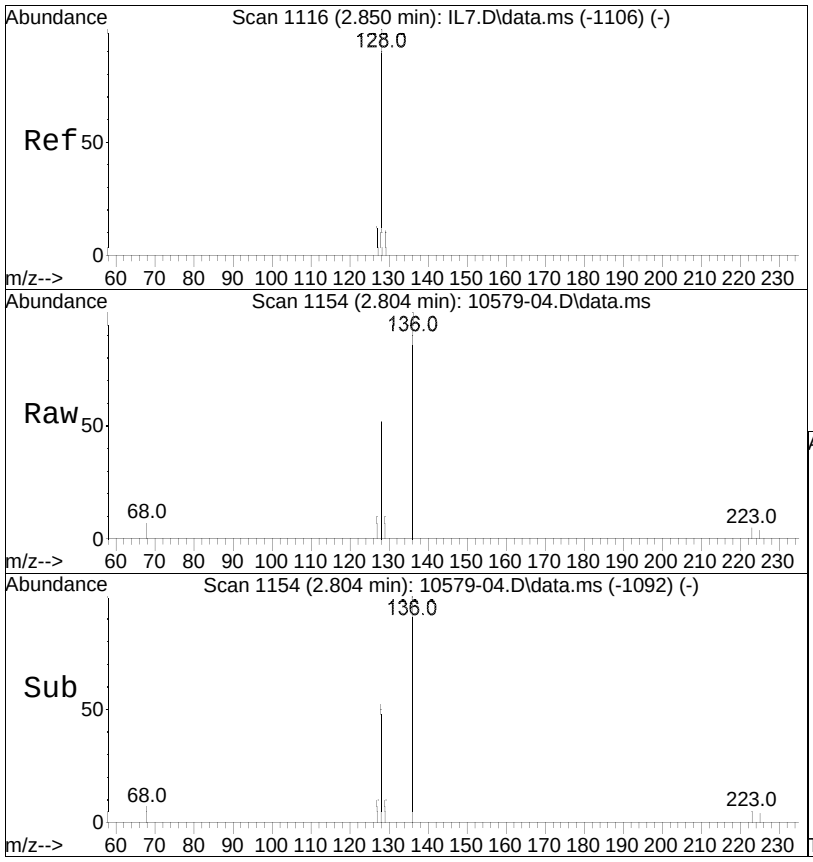
Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\240306LVI\
Data File : 10579-04.D
Acq On : 06 Mar 2024 08:33 am
Operator : sv119:jjw
Sample : L2410579-04,32,,ah
Misc : WG1892736,WG1892407,ical20642
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 06 09:55:16 2024
Quant Method : I:\8270sim\sv119\240306LVI\SIM-LVI_231207n_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Mar 06 07:14:42 2024
Response via : Initial Calibration

Sub List : DEFAULT - All compounds listed\ccv0306.D•

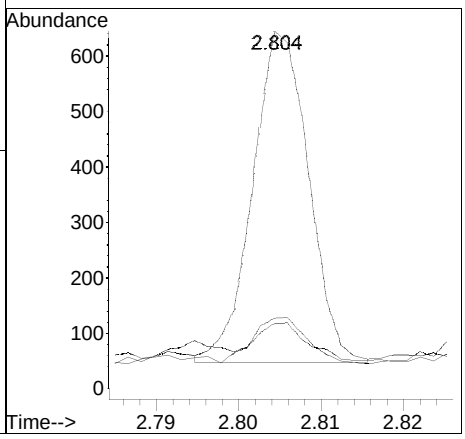


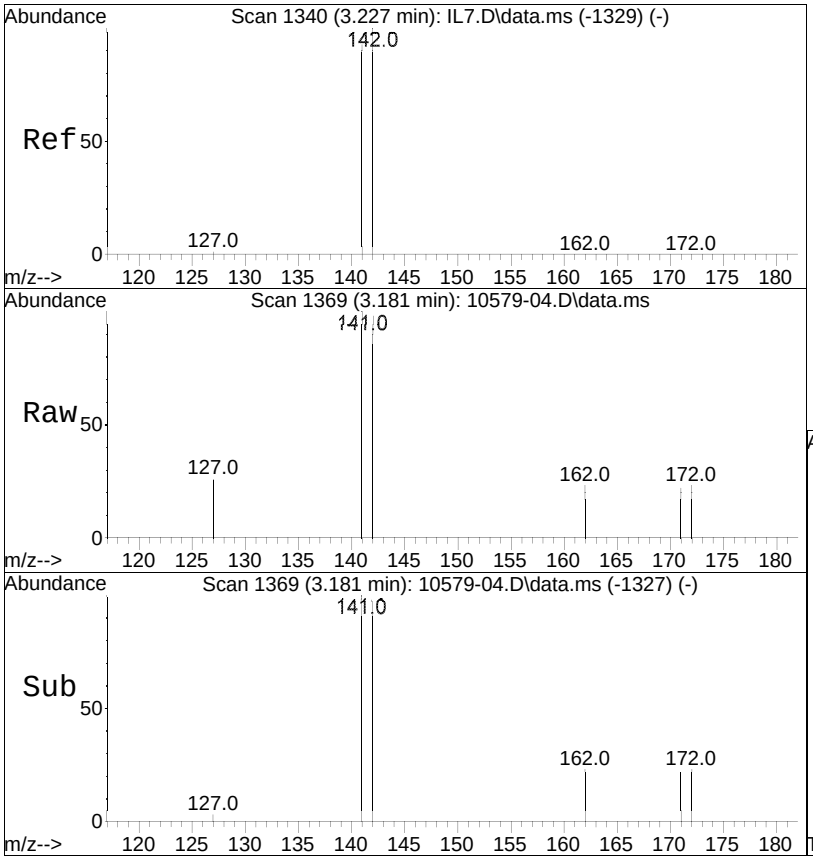


#9
Naphthalene
Concen: 7.59 ng/ml
RT: 2.804 min Scan# 1154
Delta R.T. -0.000 min
Lab File: 10579-04.D
Acq: 06 Mar 2024 08:33 am

Tgt Ion:128 Resp: 277

Ion	Ratio	Lower	Upper
128	100		
129	10.8	8.8	13.2
127	13.7	10.6	15.8

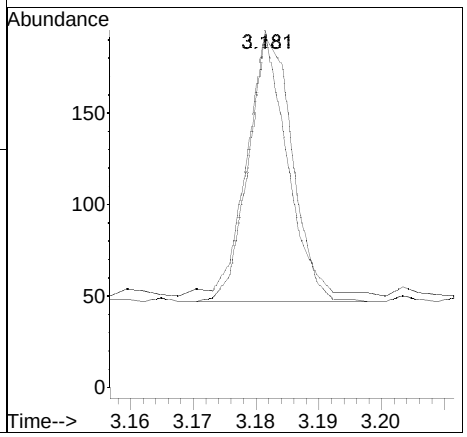


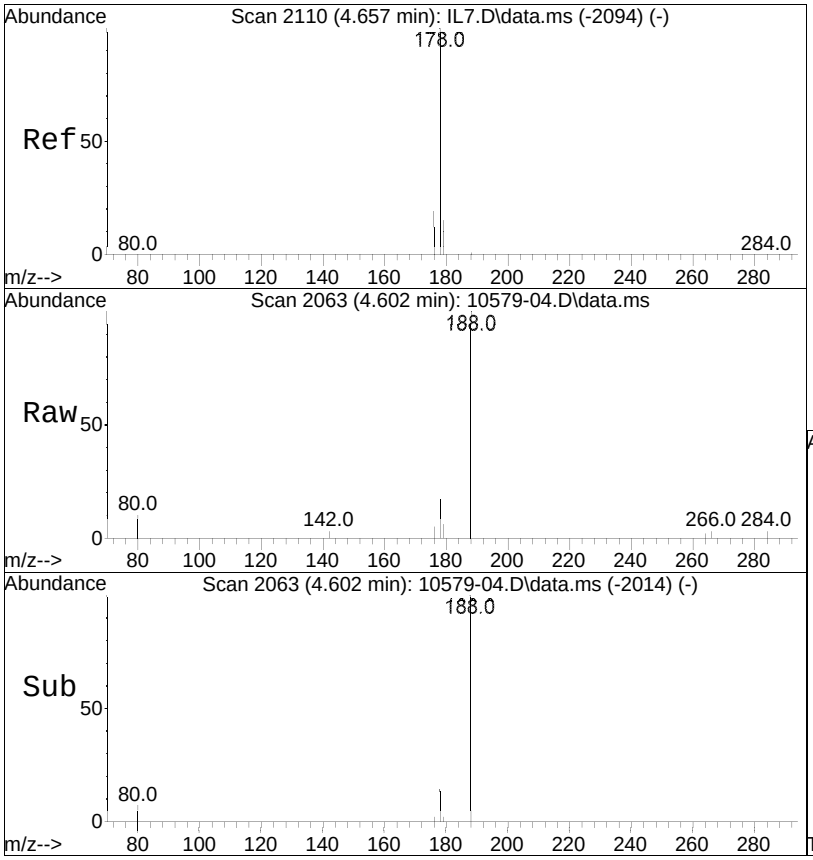


#11
2-Methylnaphthalene
Concen: 2.56 ng/ml
RT: 3.181 min Scan# 1369
Delta R.T. -0.001 min
Lab File: 10579-04.D
Acq: 06 Mar 2024 08:33 am

Tgt Ion:142 Resp: 69

Ion	Ratio	Lower	Upper
142	100		
141	92.8	74.1	111.1

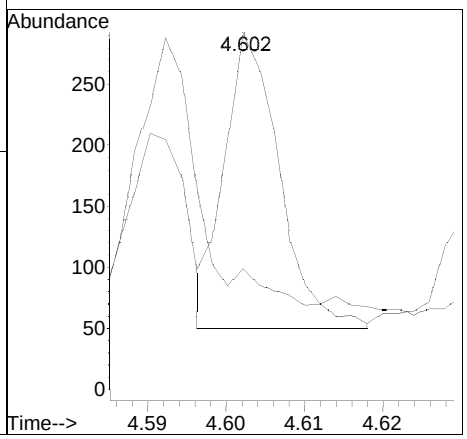


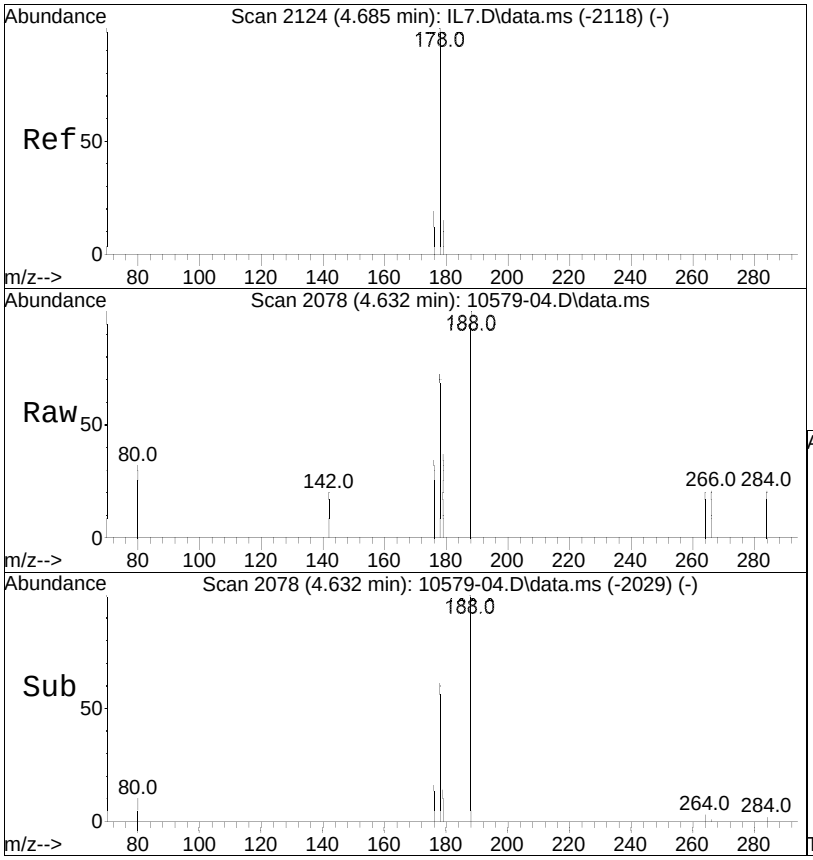


#26
Phenanthrene
Concen: 2.39 ng/ml M1
RT: 4.602 min Scan# 2063
Delta R.T. -0.003 min
Lab File: 10579-04.D
Acq: 06 Mar 2024 08:33 am

Tgt Ion:178 Resp: 118

Ion	Ratio	Lower	Upper
178	100		
179	14.4	12.3	18.5

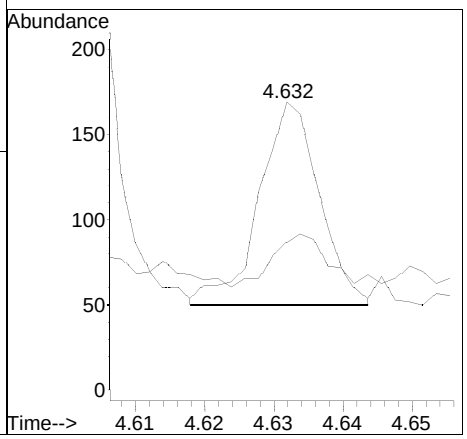




#27
Anthracene
Concen: 1.47 ng/ml M1
RT: 4.632 min Scan# 2078
Delta R.T. -0.003 min
Lab File: 10579-04.D
Acq: 06 Mar 2024 08:33 am

Tgt Ion:178 Resp: 72

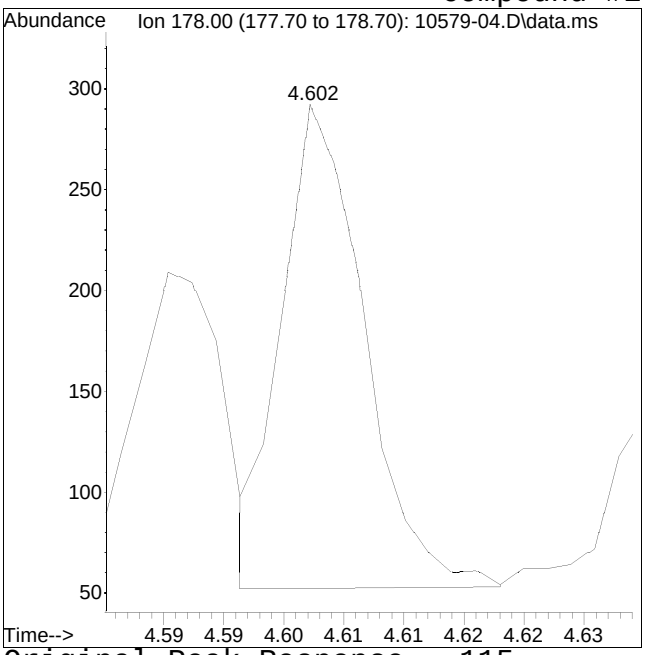
Ion	Ratio	Lower	Upper
178	100		
179	25.0	12.2	18.4#



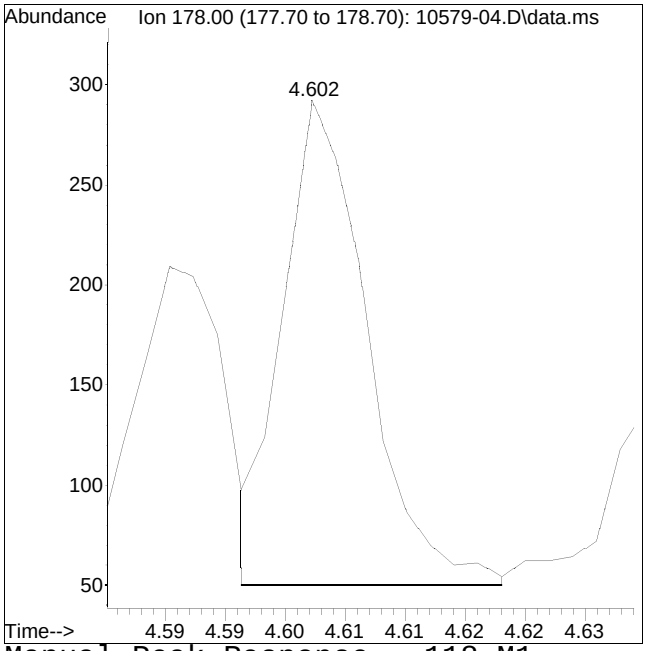
Manual Integration Report

Data Path : I:\8270SIM\sv119\240306LVIQMethod : SIM-LVI_231207n_sv119.M
Data File : 10579-04.D Operator : sv119:jjw
Date Inj'd : 3/6/2024 8:33 am Instrument : SV119
Sample : L2410579-04,32,,ah Quant Date : 3/6/2024 8:47 am

Compound #26: Phenanthrene



Original Peak Response = 115



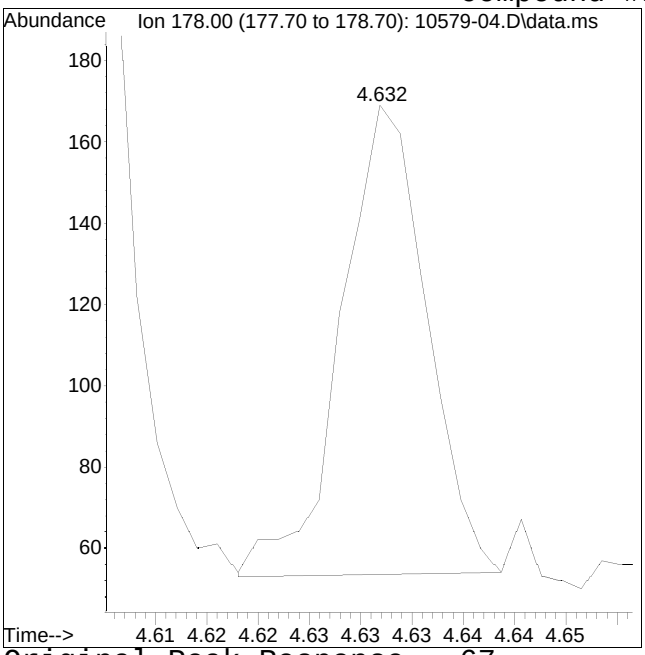
Manual Peak Response = 118 M1

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

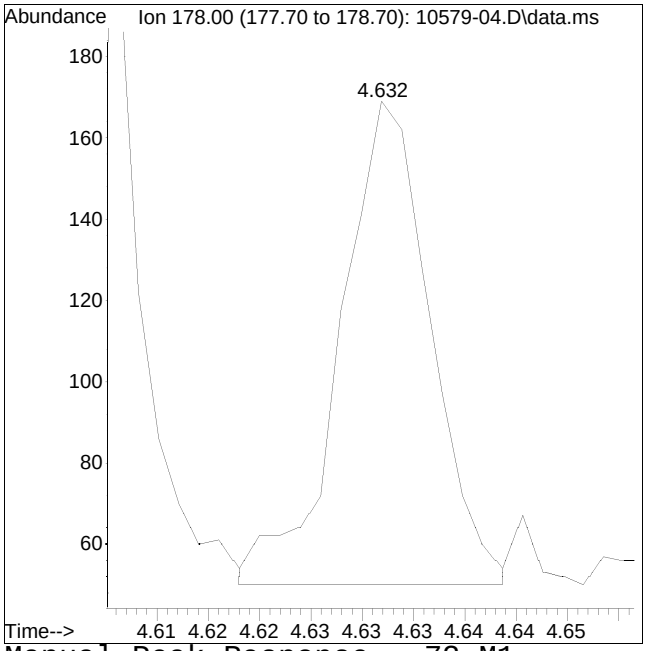
Manual Integration Report

Data Path : I:\8270SIM\sv119\240306LVIQMethod : SIM-LVI_231207n_sv119.M
Data File : 10579-04.D Operator : sv119:jjw
Date Inj'd : 3/6/2024 8:33 am Instrument : SV119
Sample : L2410579-04,32,,ah Quant Date : 3/6/2024 8:47 am

Compound #27: Anthracene



Original Peak Response = 67



Manual Peak Response = 72 M1

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\240306LVI\
Data File : 10579-05.D
Acq On : 06 Mar 2024 08:49 am
Operator : sv119:jjw
Sample : L2410579-05RE,32,,ah
Misc : WG1892736,WG1892407,ical20642
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 06 09:58:27 2024
Quant Method : I:\8270sim\sv119\240306LVI\SIM-LVI_231207n_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Mar 06 07:14:42 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv119\240306LVI\ccv0306.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.133	152	41410	4000.000	ng/ml	0.00
Standard Area 1 = 46268			Recovery = 89.50%			
8) Naphthalene-d8	2.795	136	147735	4000.000	ng/ml	0.00
Standard Area 1 = 165599			Recovery = 89.21%			
17) Acenaphthene-d10	3.760	164	87325	4000.000	ng/ml	0.00
Standard Area 1 = 97417			Recovery = 89.64%			
22) Phenanthrene-d10	4.591	188	195862	4000.000	ng/ml	0.00
Standard Area 1 = 225040			Recovery = 87.03%			
31) Chrysene-d12	6.149	240	186222	4000.000	ng/ml	-0.02
Standard Area 1 = 198834			Recovery = 93.66%			
36) Perylene-d12	7.262	264	173692	4000.000	ng/ml	-0.03
Standard Area 1 = 192010			Recovery = 90.46%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.539	112	27440	2422.675	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 48.45%			
3) Phenol-d6	1.951	99	28152	2073.539	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 41.47%			
7) Nitrobenzene-d5	2.414	82	17537	1702.860	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 68.11%			
13) 2-Fluorobiphenyl	3.388	172	48311	1464.194	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 58.57%			
21) 2,4,6-Tribromophenol	4.202	330	14435	2998.317	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 59.97%			
30) 4-Terphenyl-d14	5.515	244	62030	1291.894	ng/ml	-0.01
Spiked Amount 2500.000	Range 30 - 130		Recovery = 51.68%			
Target Compounds						Qvalue
6) Hexachloroethane	0.000		0	N.D.	d	
9) Naphthalene	2.806	128	6534	185.224	ng/ml	99
10) Hexachlorobutadiene	0.000		0	N.D.	d	
11) 2-Methylnaphthalene	3.182	142	425M6	16.294	ng/ml	
14) 2-Chloronaphthalene	0.000		0	N.D.	d	
16) Acenaphthylene	3.680	152	230M6	5.571	ng/ml	
18) Acenaphthene	0.000		0	N.D.	d	
20) Fluorene	4.066	166	168M1	5.206	ng/ml	
24) Hexachlorobenzene	4.382	284	41	3.238	ng/ml	97
25) Pentachlorophenol	0.000		0	N.D.	d	

Data Path : I:\8270SIM\sv119\240306LVI\
Data File : 10579-05.D
Acq On : 06 Mar 2024 08:49 am
Operator : sv119:jjw
Sample : L2410579-05RE,32,,ah
Misc : WG1892736,WG1892407,ical20642
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 06 09:58:27 2024
Quant Method : I:\8270sim\sv119\240306LVI\SIM-LVI_231207n_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Mar 06 07:14:42 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv119\240306LVI\ccv0306.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Phenanthrene	4.605	178	334M4	6.713	ng/ml	
27) Anthracene	4.633	178	105	2.128	ng/ml	98
28) Fluoranthene	5.282	202	141M6	2.150	ng/ml	
29) Pyrene	5.415	202	138M3	2.049	ng/ml	
32) Benzo[a]anthracene	0.000		0	N.D.	d	
34) Chrysene	0.000		0	N.D.	d	
37) Benzo[b]fluoranthene	0.000		0	N.D.	d	
38) Benzo[k]fluoranthene	0.000		0	N.D.	d	
39) Benzo[a]pyrene	0.000		0	N.D.	d	
40) Indeno[1,2,3-cd]pyrene	0.000		0	N.D.	d	
41) Dibenzo[a,h]anthracene	0.000		0	N.D.	d	
42) Benzo[g,h,i]perylene	0.000		0	N.D.	d	

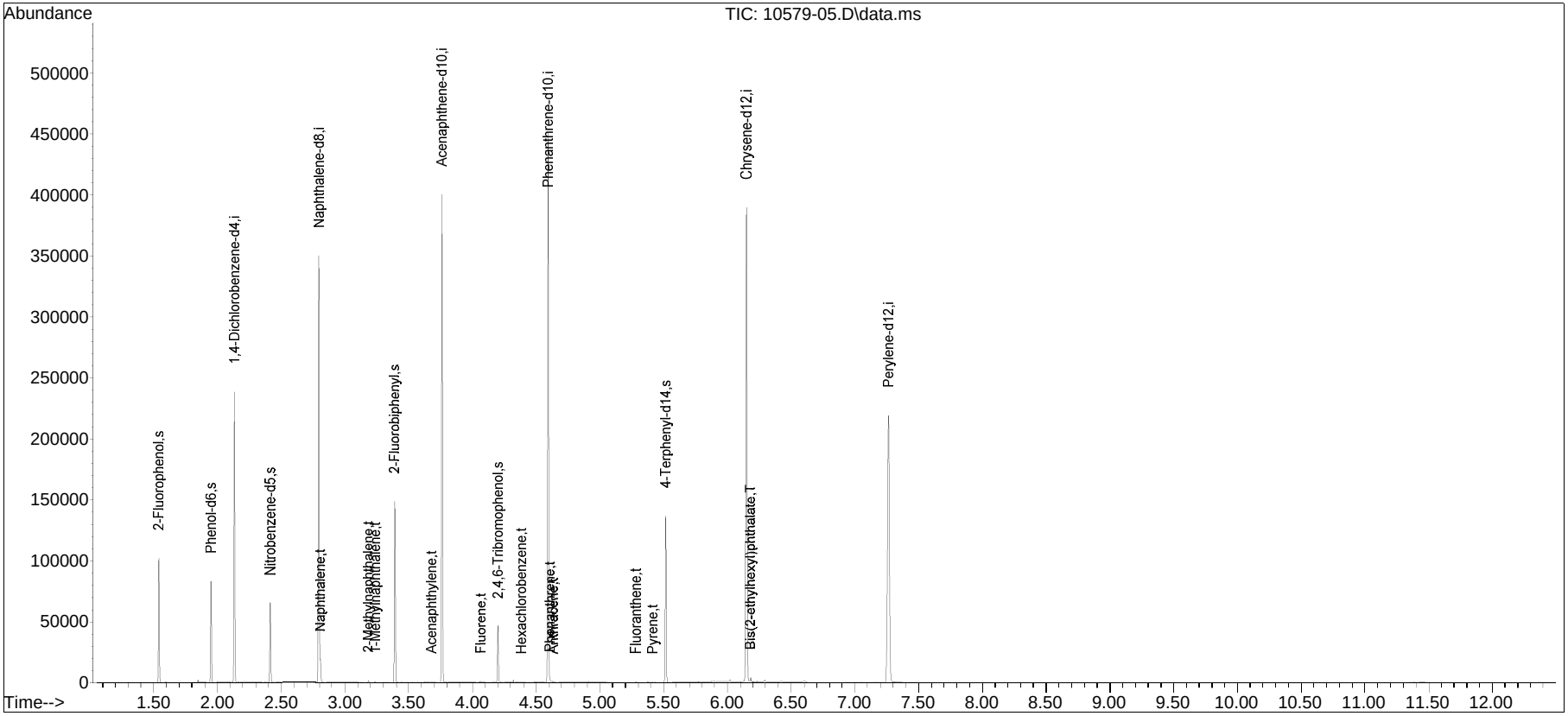
(#) = qualifier out of range (m) = manual integration (+) = signals summed

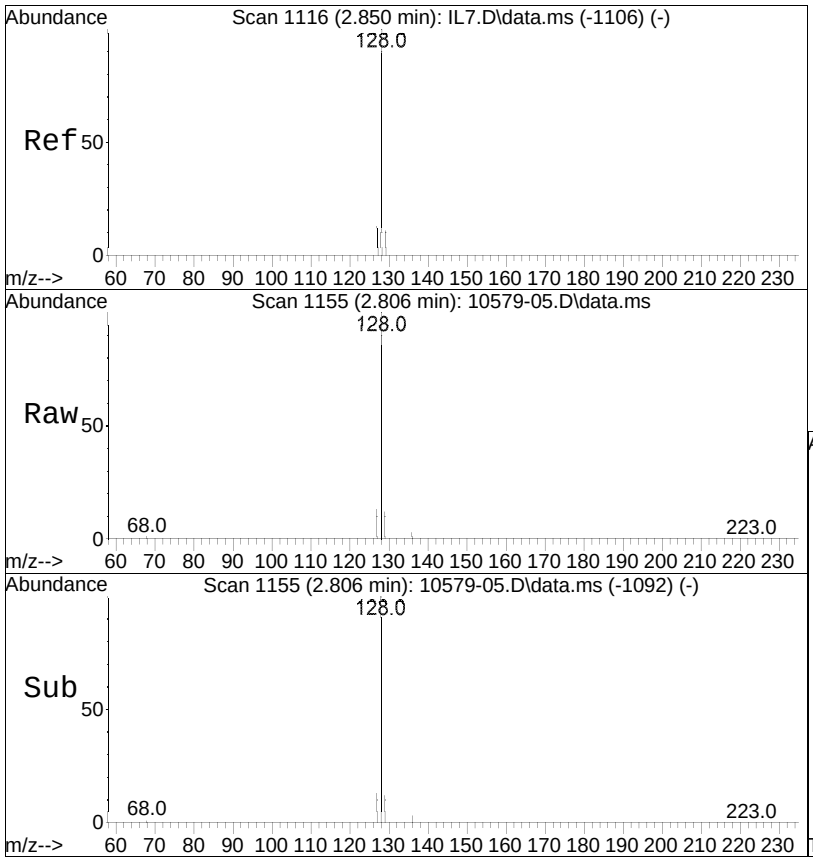
Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\240306LVI\
Data File : 10579-05.D
Acq On : 06 Mar 2024 08:49 am
Operator : sv119:jjw
Sample : L2410579-05RE,32,,ah
Misc : WG1892736,WG1892407,ical20642
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 06 09:58:27 2024
Quant Method : I:\8270sim\sv119\240306LVI\SIM-LVI_231207n_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Mar 06 07:14:42 2024
Response via : Initial Calibration

Sub List : DEFAULT - All compounds listed\ccv0306.D•

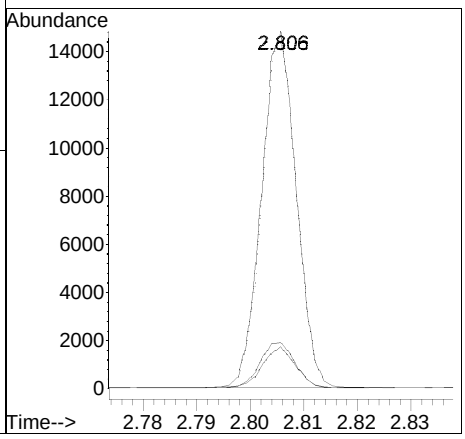


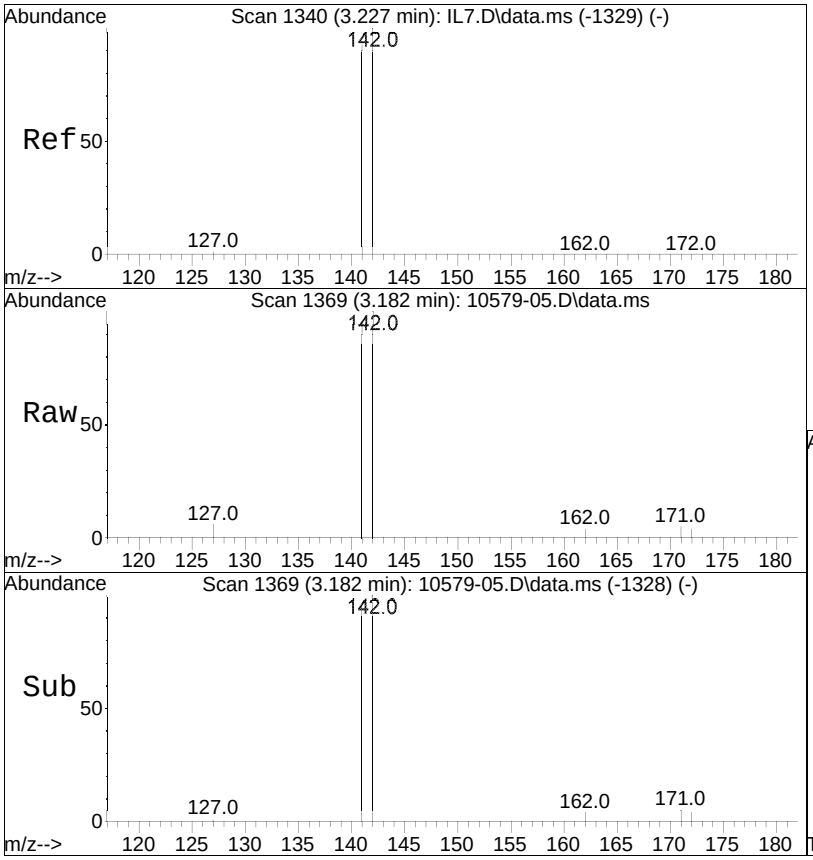


#9
Naphthalene
Concen: 185.22 ng/ml
RT: 2.806 min Scan# 1155
Delta R.T. 0.001 min
Lab File: 10579-05.D
Acq: 06 Mar 2024 08:49 am

Tgt Ion:128 Resp: 6534

Ion	Ratio	Lower	Upper
128	100		
129	11.2	8.8	13.2
127	12.9	10.6	15.8

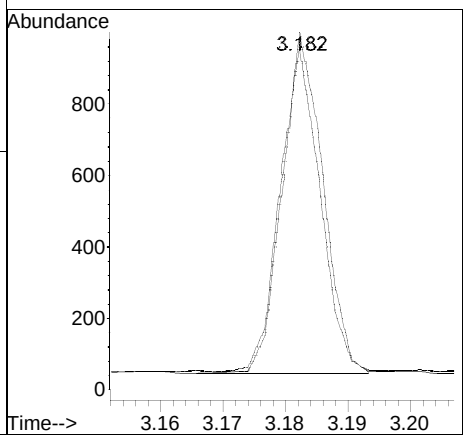


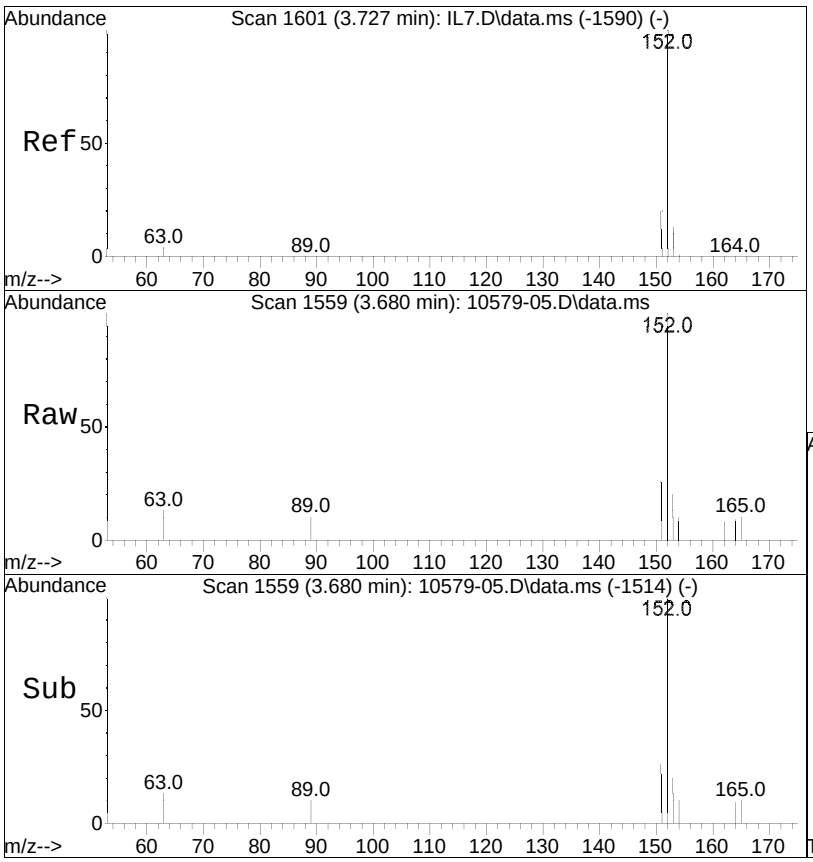


#11
2-Methylnaphthalene
Concen: 16.29 ng/ml M6
RT: 3.182 min Scan# 1369
Delta R.T. -0.000 min
Lab File: 10579-05.D
Acq: 06 Mar 2024 08:49 am

Tgt Ion:142 Resp: 425

Ion	Ratio	Lower	Upper
142	100		
141	93.9	74.1	111.1

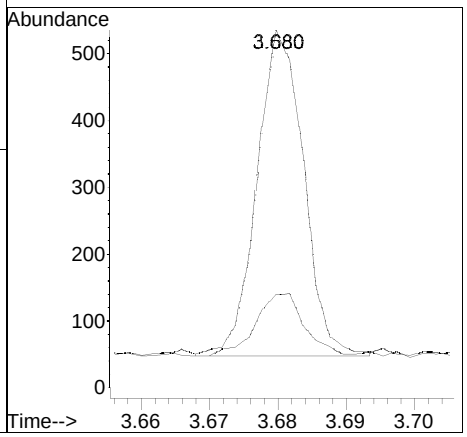


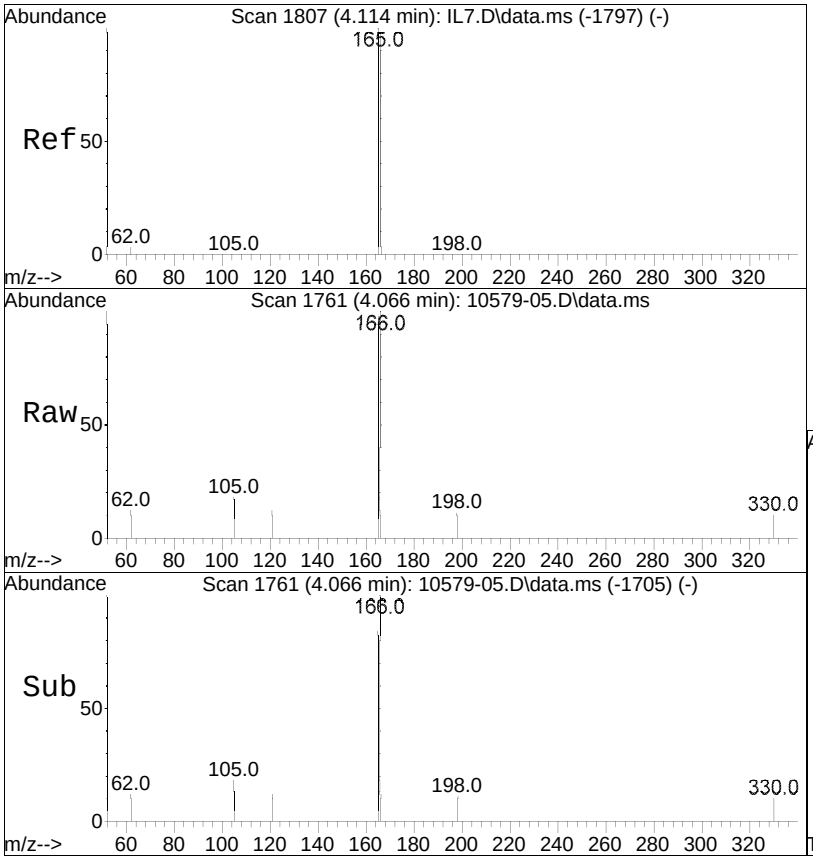


#16
Acenaphthylene
Concen: 5.57 ng/ml M6
RT: 3.680 min Scan# 1559
Delta R.T. -0.000 min
Lab File: 10579-05.D
Acq: 06 Mar 2024 08:49 am

Tgt Ion:152 Resp: 230

Ion	Ratio	Lower	Upper
152	100		
151	20.4	16.0	24.0

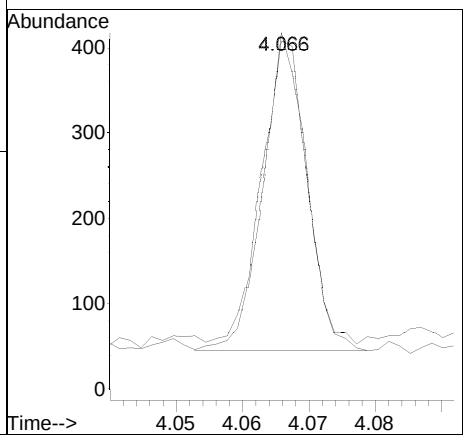


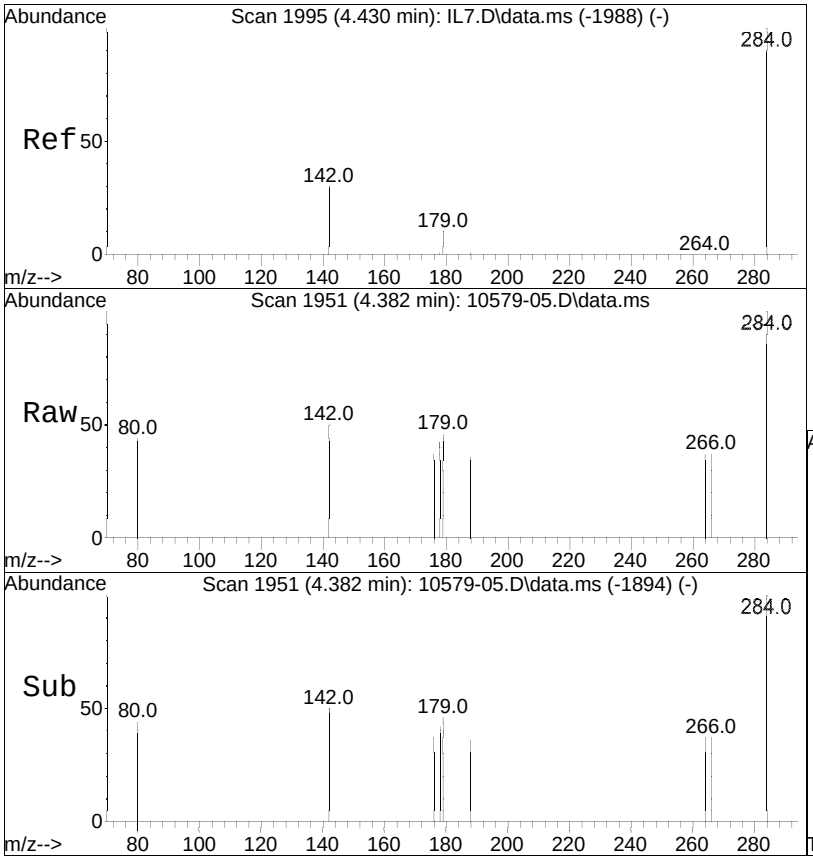


#20
Fluorene
Concen: 5.21 ng/ml M1
RT: 4.066 min Scan# 1761
Delta R.T. -0.000 min
Lab File: 10579-05.D
Acq: 06 Mar 2024 08:49 am

Tgt Ion:166 Resp: 168

Ion	Ratio	Lower	Upper
166	100		
165	103.0	82.9	124.3

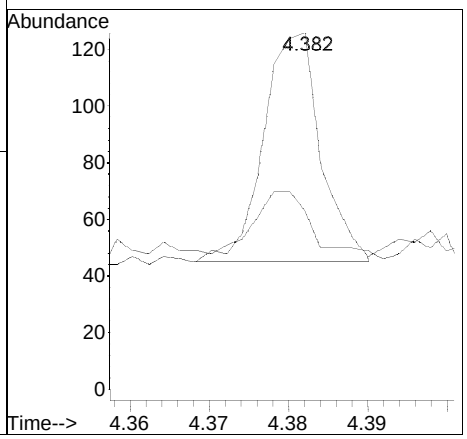


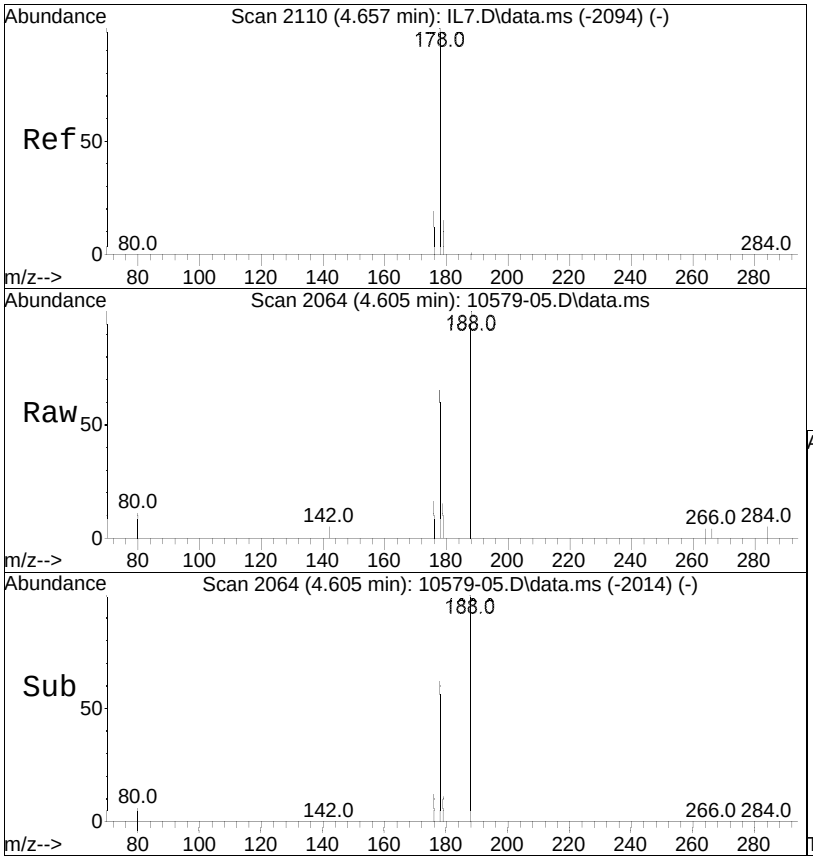


#24
Hexachlorobenzene
Concen: 3.24 ng/ml
RT: 4.382 min Scan# 1951
Delta R.T. 0.001 min
Lab File: 10579-05.D
Acq: 06 Mar 2024 08:49 am

Tgt Ion:284 Resp: 41

Ion	Ratio	Lower	Upper
284	100		
142	31.7	26.9	40.3

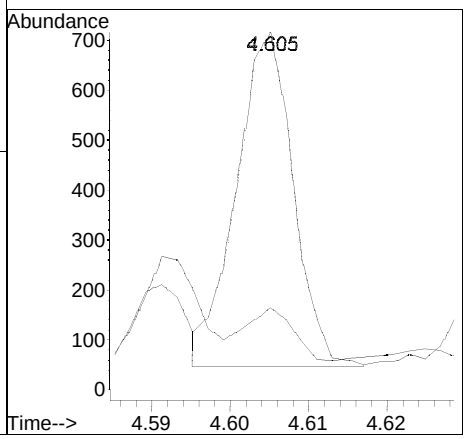


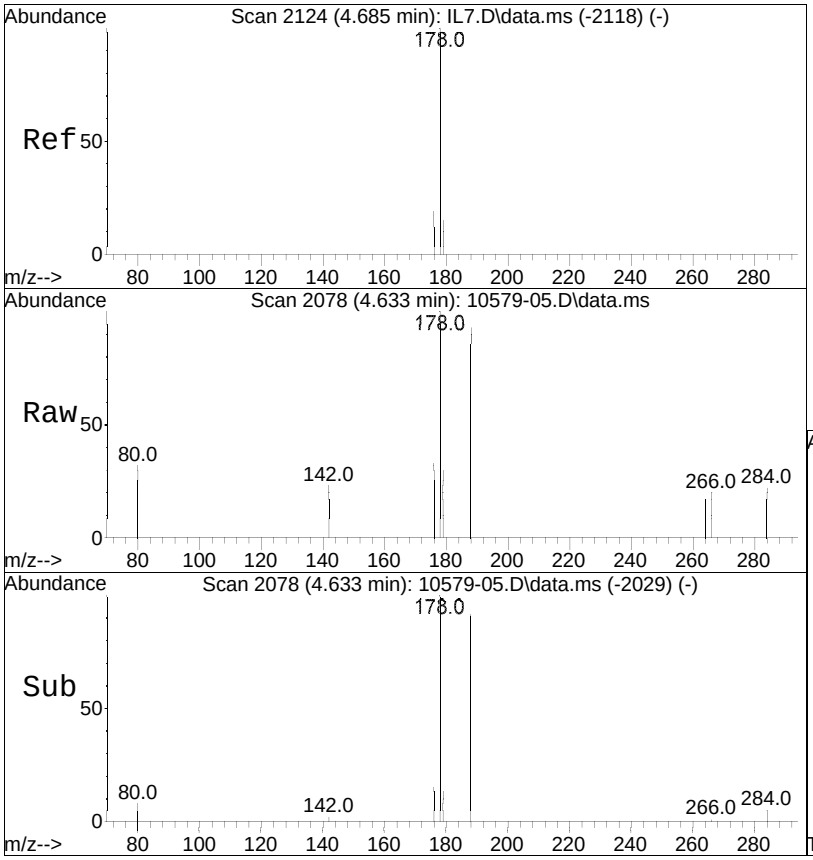


#26
Phenanthrene
Concen: 6.71 ng/ml M4
RT: 4.605 min Scan# 2064
Delta R.T. -0.000 min
Lab File: 10579-05.D
Acq: 06 Mar 2024 08:49 am

Tgt Ion:178 Resp: 334

Ion	Ratio	Lower	Upper
178	100		
179	15.0	12.3	18.5

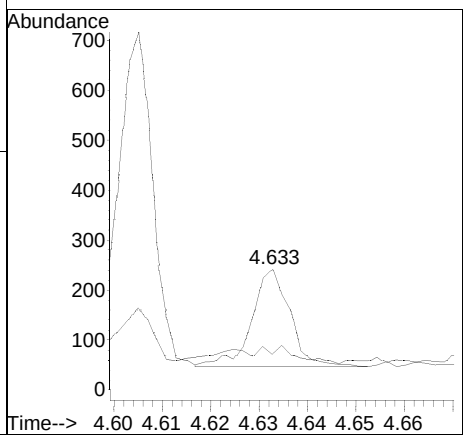


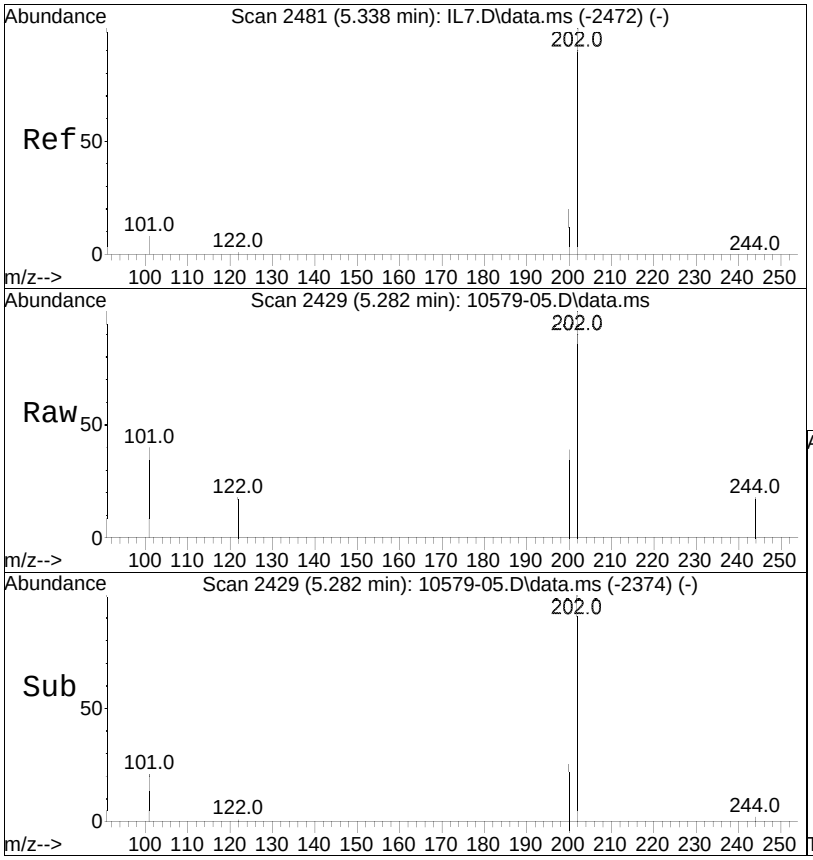


#27
Anthracene
Concen: 2.13 ng/ml
RT: 4.633 min Scan# 2078
Delta R.T. -0.002 min
Lab File: 10579-05.D
Acq: 06 Mar 2024 08:49 am

Tgt Ion:178 Resp: 105

Ion	Ratio	Lower	Upper
178	100		
179	16.2	12.2	18.4

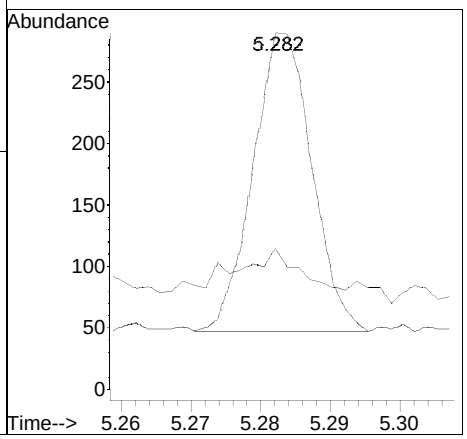


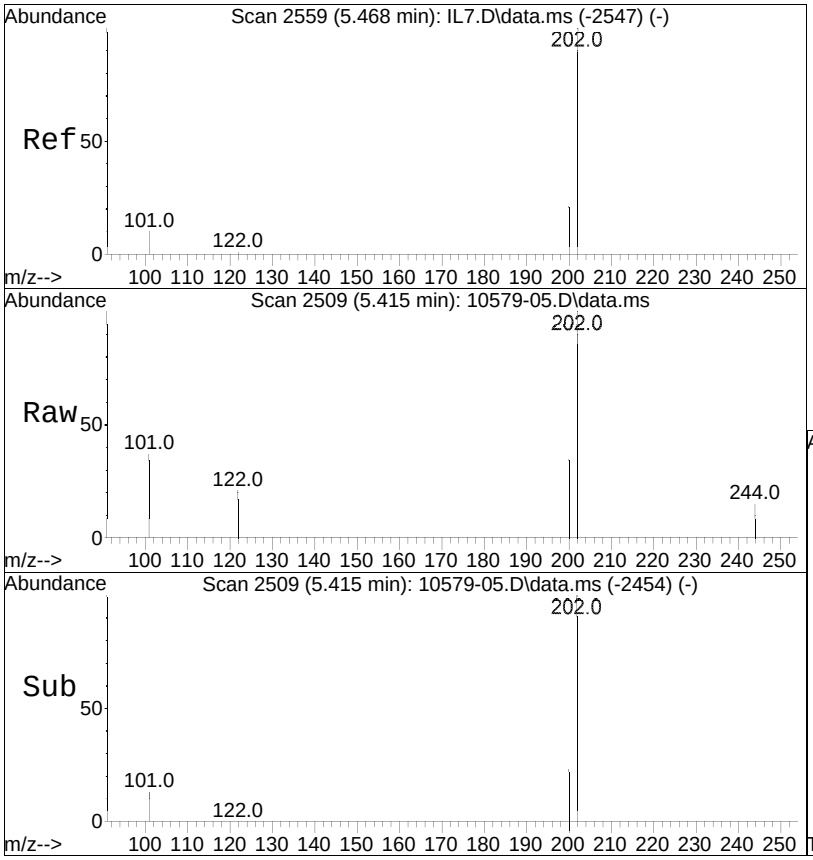


#28
Fluoranthene
Concen: 2.15 ng/ml M6
RT: 5.282 min Scan# 2429
Delta R.T. -0.009 min
Lab File: 10579-05.D
Acq: 06 Mar 2024 08:49 am

Tgt Ion:202 Resp: 141

Ion	Ratio	Lower	Upper
202	100		
101	15.6	8.3	12.5#

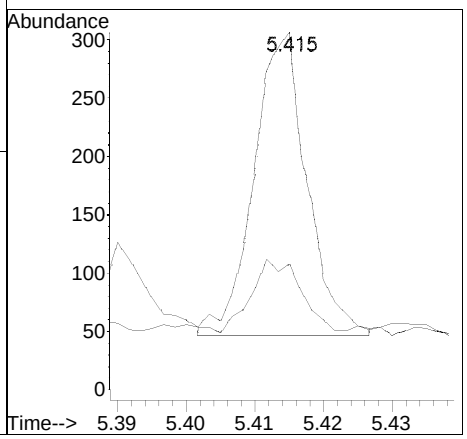




#29
Pyrene
Concen: 2.05 ng/ml M3
RT: 5.415 min Scan# 2509
Delta R.T. -0.009 min
Lab File: 10579-05.D
Acq: 06 Mar 2024 08:49 am

Tgt Ion:202 Resp: 138

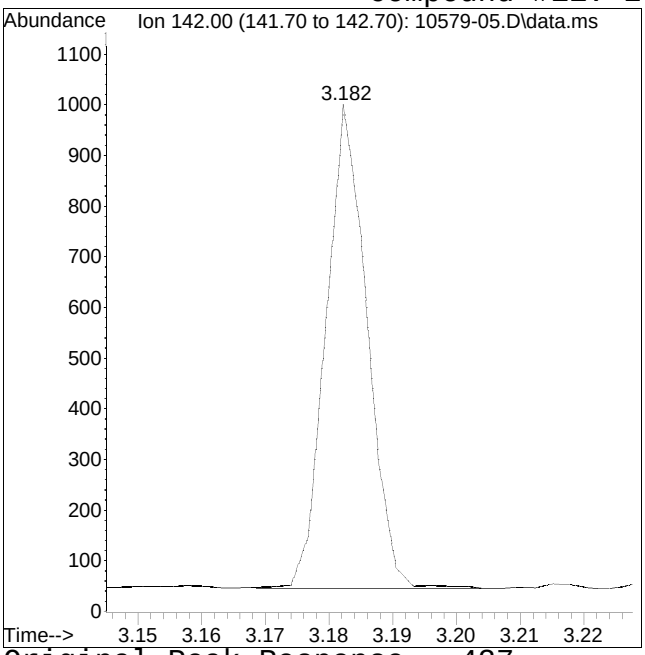
Ion	Ratio	Lower	Upper
202	100		
200	23.9	17.3	25.9



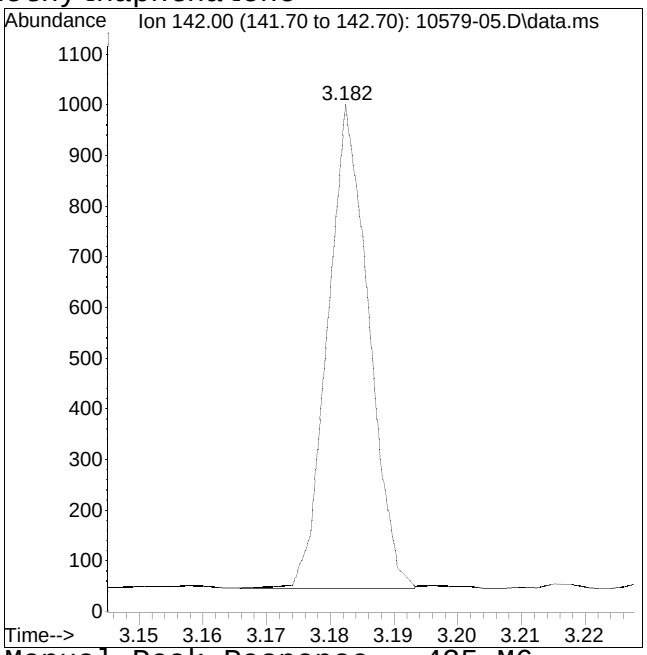
Manual Integration Report

Data Path : I:\8270SIM\sv119\240306LVIQMethod : SIM-LVI_231207n_sv119.M
Data File : 10579-05.D Operator : sv119:jjw
Date Inj'd : 3/6/2024 8:49 am Instrument : SV119
Sample : L2410579-05RE,32,,ah Quant Date : 3/6/2024 9:05 am

Compound #11: 2-Methylnaphthalene



Original Peak Response = 427



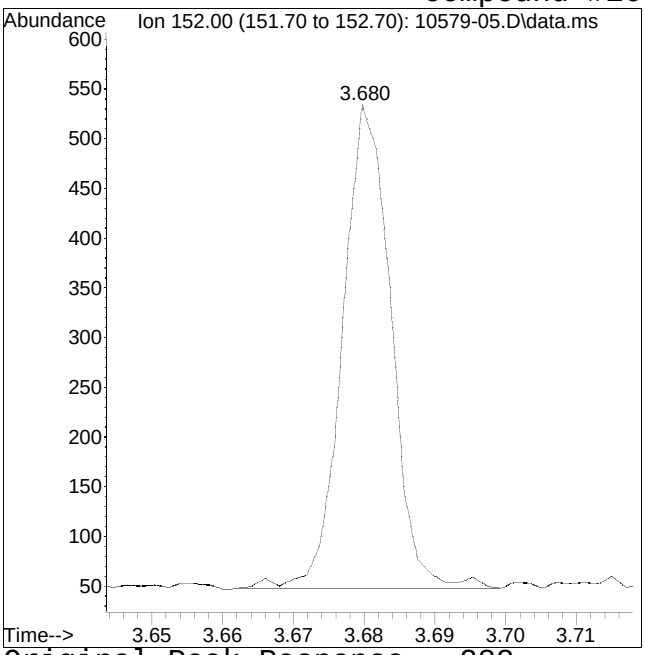
Manual Peak Response = 425 M6

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

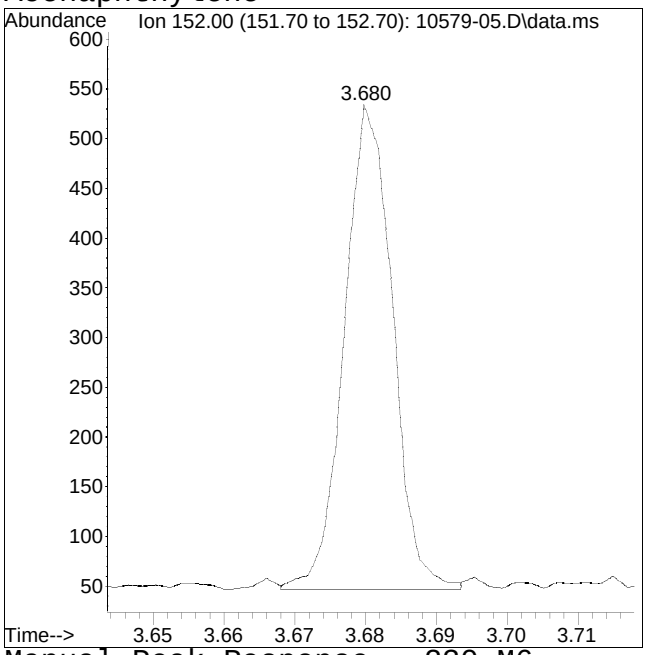
Manual Integration Report

Data Path : I:\8270SIM\sv119\240306LVIQMethod : SIM-LVI_231207n_sv119.M
Data File : 10579-05.D Operator : sv119:jjw
Date Inj'd : 3/6/2024 8:49 am Instrument : SV119
Sample : L2410579-05RE,32,,ah Quant Date : 3/6/2024 9:05 am

Compound #16: Acenaphthylene



Original Peak Response = 232



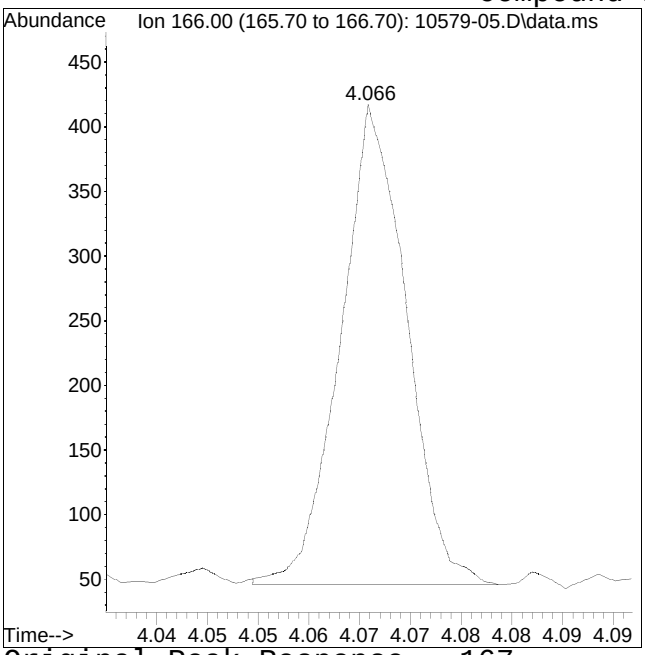
Manual Peak Response = 230 M6

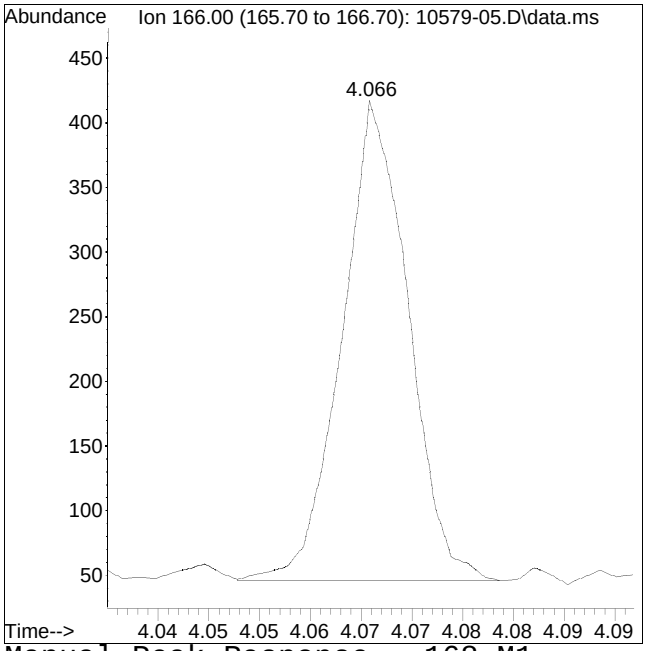
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

Data Path : I:\8270SIM\sv119\240306LVIQMethod : SIM-LVI_231207n_sv119.M
Data File : 10579-05.D Operator : sv119:jjw
Date Inj'd : 3/6/2024 8:49 am Instrument : SV119
Sample : L2410579-05RE,32,,ah Quant Date : 3/6/2024 9:05 am

Compound #20: Fluorene





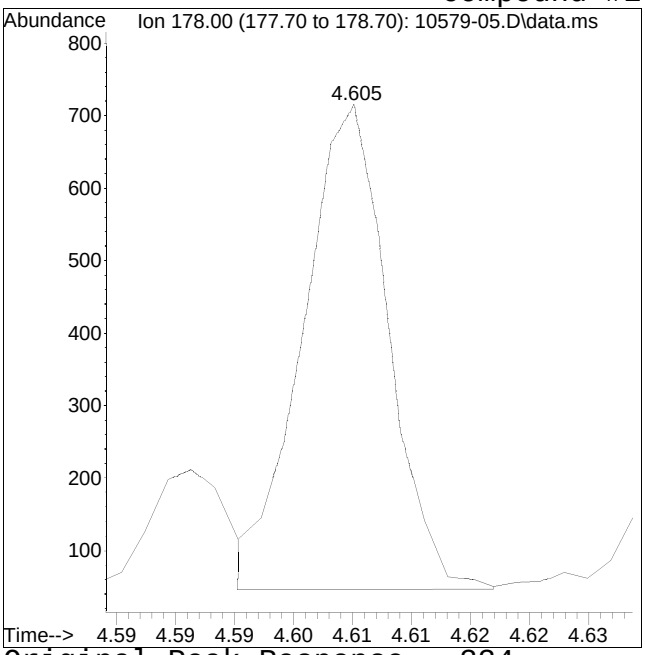
Original Peak Response = 167 Manual Peak Response = 168 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

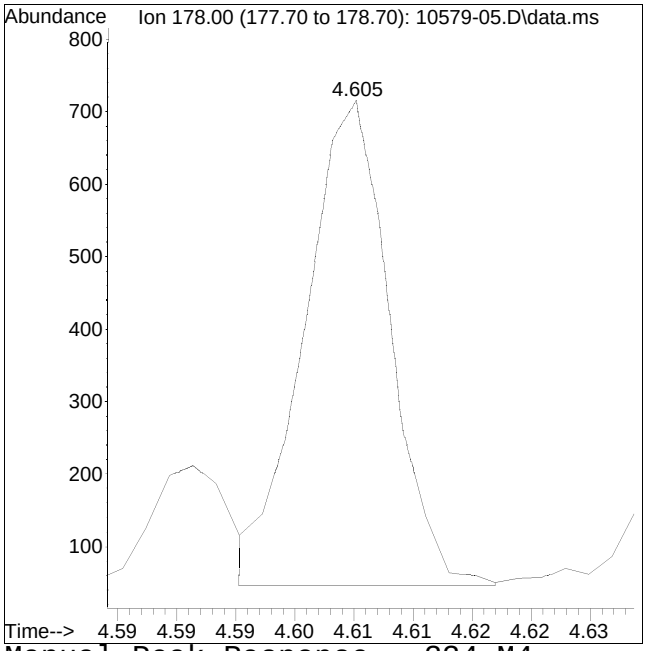
Data Path : I:\8270SIM\sv119\240306LVIQ
Data File : 10579-05.D
Date Inj'd : 3/6/2024 8:49 am
Sample : L2410579-05RE,32,,ah

Method : SIM-LVI_231207n_sv119.M
Operator : sv119:jjw
Instrument : SV119
Quant Date : 3/6/2024 9:05 am

Compound #26: Phenanthrene



Original Peak Response = 334



Manual Peak Response = 334 M4

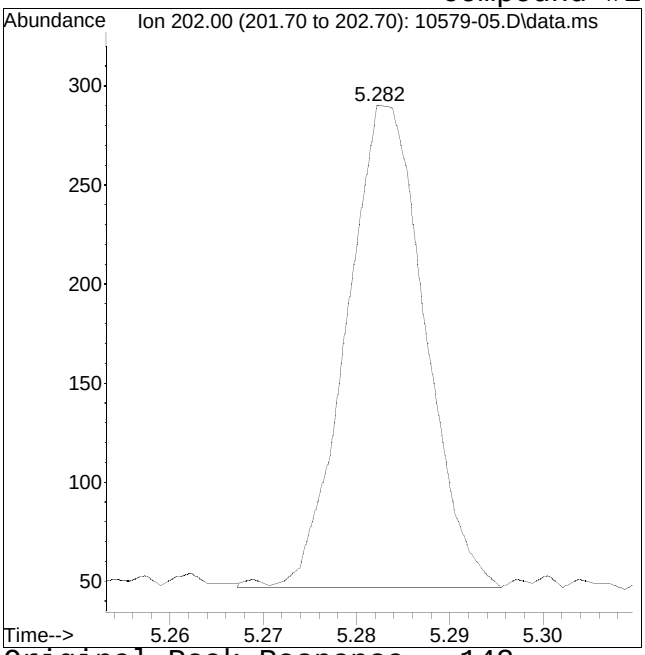
M4 = Poor automated baseline construction.

Manual Integration Report

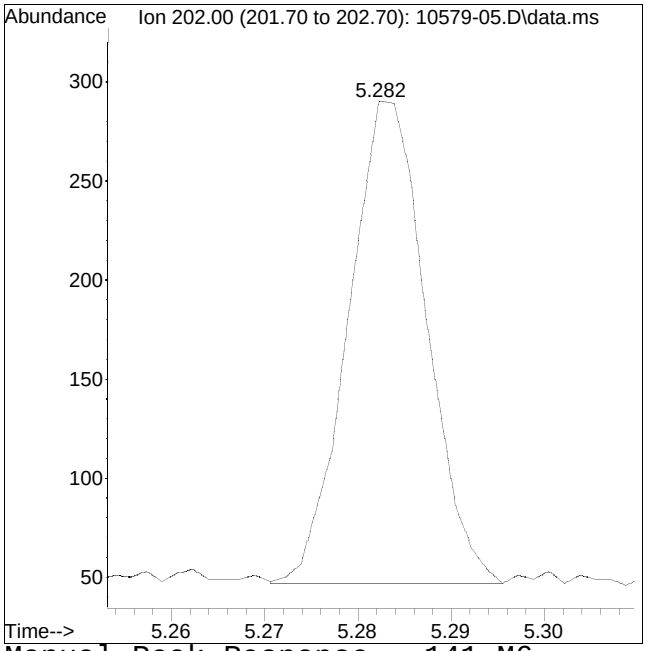
Data Path : I:\8270SIM\sv119\240306LVIQ
Data File : 10579-05.D
Date Inj'd : 3/6/2024 8:49 am
Sample : L2410579-05RE,32,,ah

Method : SIM-LVI_231207n_sv119.M
Operator : sv119:jjw
Instrument : SV119
Quant Date : 3/6/2024 9:05 am

Compound #28: Fluoranthene



Original Peak Response = 142



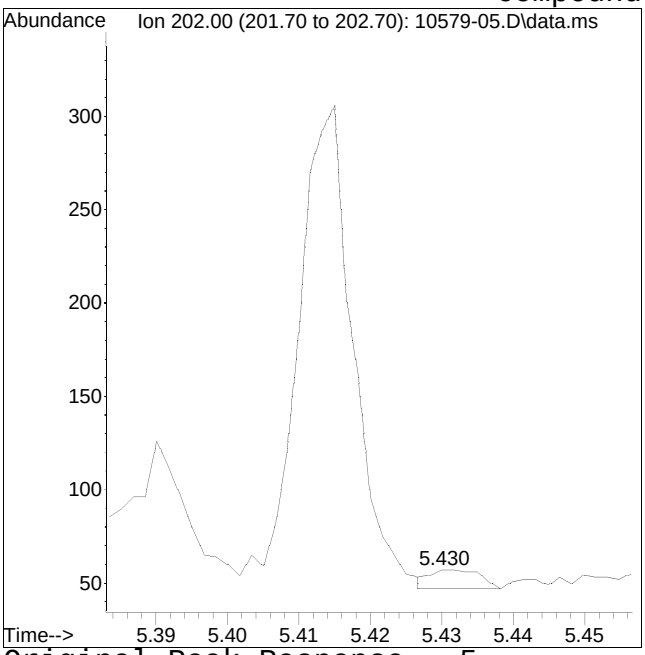
Manual Peak Response = 141 M6

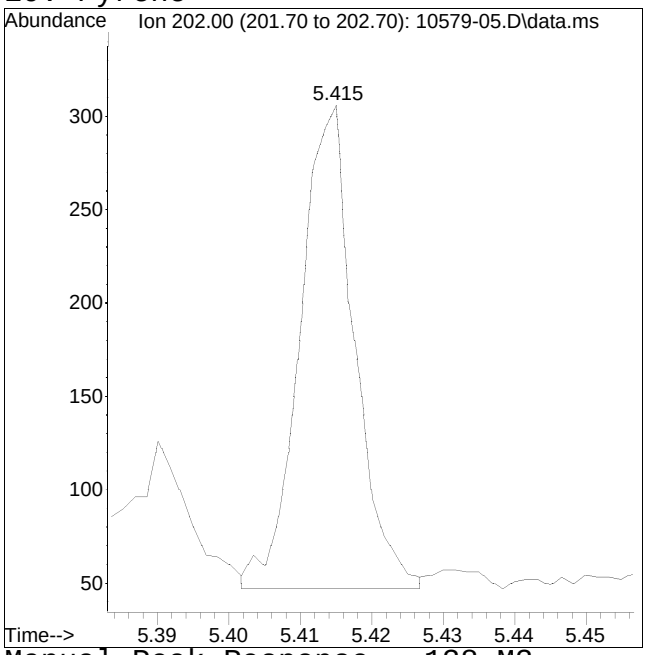
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

Data Path : I:\8270SIM\sv119\240306LVIQMethod : SIM-LVI_231207n_sv119.M
Data File : 10579-05.D Operator : sv119:jjw
Date Inj'd : 3/6/2024 8:49 am Instrument : SV119
Sample : L2410579-05RE,32,,ah Quant Date : 3/6/2024 9:05 am

Compound #29: Pyrene





Original Peak Response = 5 Manual Peak Response = 138 M3

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

Semivolatiles Standards Data

Initial Calibration

Initial Calibration Summary
Form 6
Semivolatiles

Client	**: Alpha Geoscience**	**Lab Number**	**: L2410579**
Project Name	**: HUNTINGTON READY MIX**	**Project Number**	**: 20116**
Instrument ID	**: SV119**	**Ical Ref**	**: ICAL20642**
Calibration dates	**: 12/07/23 13:10 12/07/23 15:42**		

Calibration Files
L1 =IL1.D L2 =IL2.D L3 =IL3.D L4 =IL4.D L5 =IL5.D L6 =IL6.D L7 =IL7.D L8 =IL8.D
L9 =IL9.D L10 =IL10.D

		Compound	L1	L2	L3	L4	L5	L6	L7	L8	L9	L10	Avg	%RSD
1)	i	1,4-Dichlorobenzene-d4	ISTD											
2)	s	2-Fluorophenol	1.128	1.130	1.105	1.108	1.126	1.154	1.183	1.104	0.991	0.913	1.094	7.38
3)	s	Phenol-d6	1.431	1.310	1.266	1.271	1.295	1.318	1.344	1.361	1.291	1.227	1.311	4.35
4)	T	bis(2-Chloroethyl)ether	1.279	1.233	1.161	1.139	1.143	1.131	1.127	1.055	0.978	0.906	1.115	9.94
5)	T	n-Nitrosodi-n-propylamine	0.606	0.634	0.623	0.607	0.628	0.633	0.695	0.768	0.761	0.716	0.667	9.38
6)	t	Hexachloroethane	0.555	0.531	0.504	0.484	0.482	0.480	0.504	0.500	0.471	0.436	0.495	6.61
7)	s	Nitrobenzene-d5	0.909	1.019	0.996	0.951	0.985	1.001	1.054	1.070	1.020	0.943	0.995	5.02
8)	i	Naphthalene-d8	ISTD											
9)	t	Naphthalene	0.998	1.012	1.012	0.992	0.994	0.993	0.999	0.932	0.849	0.770	0.955	8.60
10)	t	Hexachlorobutadiene	0.221	0.210	0.218	0.218	0.216	0.214	0.217	0.199	0.181	0.164	0.206	9.28
11)	t	2-Methylnaphthalene	0.732	0.746	0.743	0.748	0.749	0.742	0.749	0.688	0.618	0.546	0.706	9.93
12)	t	1-Methylnaphthalene	0.707	0.693	0.703	0.693	0.699	0.686	0.677	0.610	0.553	0.491	0.651	11.50
13)	s	2-Fluorobiphenyl	0.988	0.971	0.984	0.978	0.990	0.959	0.936	0.808	0.713	0.607	0.893	15.29
14)	t	2-Chloronaphthalene	0.802	0.813	0.816	0.806	0.806	0.788	0.773	0.707	0.645	0.566	0.752	11.40
15)	t	2,6-Dinitrotoluene		0.164	0.169	0.162	0.166	0.164	0.174	0.190	0.182	0.159	0.170	6.08
16)	t	Acenaphthylene	1.199	1.148	1.165	1.153	1.164	1.163	1.188	1.114	1.014	0.872	1.118	9.00
17)	i	Acenaphthene-d10	ISTD											
18)	t	Acenaphthene	1.289	1.260	1.273	1.276	1.282	1.287	1.307	1.236	1.133	1.025	1.237	7.18
19)	t	2,4-Dinitrotoluene		0.323	0.315	0.326	0.331	0.350	0.402	0.450	0.431	0.390	0.369	13.78
20)	t	Fluorene	1.538	1.530	1.512	1.514	1.531	1.533	1.582	1.490	1.349	1.202	1.478	7.75
21)	s	2,4,6-Tribromophenol	0.215	0.214	0.203	0.207	0.204	0.214	0.239	0.253	0.241	0.216	0.221	7.87
22)	i	Phenanthrene-d10	ISTD											
23)	T	4,6-Dinitro-o-cresol					0.076	0.091	0.107	0.125	0.123	0.118	*L	0.9991
24)	t	Hexachlorobenzene	0.291	0.267	0.269	0.265	0.271	0.269	0.271	0.254	0.226	0.203	0.259	9.86
25)	t	Pentachlorophenol			0.121	0.128	0.132	0.135	0.156	0.176	0.171	0.161	*L	0.9984
26)	t	Phenanthrene	1.082	1.054	1.058	1.046	1.067	1.064	1.067	1.004	0.902	0.815	1.016	8.65
27)	t	Anthracene	1.043	1.060	1.044	1.030	1.045	1.043	1.068	1.015	0.912	0.815	1.008	8.01
28)	t	Fluoranthene	1.460	1.462	1.429	1.426	1.420	1.422	1.427	1.256	1.114	0.975	1.339	12.62
29)	t	Pyrene	1.523	1.533	1.507	1.491	1.466	1.461	1.439	1.248	1.108	0.982	1.376	14.11
30)	s	4-Terphenyl-d14	1.122	1.124	1.093	1.087	1.077	1.050	1.016	0.843	0.748	0.647	0.981	17.46
31)	i	Chrysene-d12	ISTD											
32)	t	Benzo[a]anthracene		2.530	1.848	1.564	1.487	1.431	1.486	1.464	1.363	1.270	*L	0.9970
33)	t	3,3'-Dichlorobenzidine				0.520	0.544	0.563	0.626	0.694	0.664	0.619	0.604	10.63
34)	t	Chrysene	1.298	1.317	1.329	1.332	1.343	1.336	1.365	1.373	1.297	1.212	1.320	3.44
35)	T	bis(2-Ethylhexyl)phthalate				0.585	0.606	0.615	0.732	0.932	0.943	0.884	*L	0.9979
36)	i	Perylene-d12	ISTD											

Initial Calibration Summary
Form 6
Semivolatiles

Client	**: Alpha Geoscience**	**Lab Number**	**: L2410579**
Project Name	**: HUNTINGTON READY MIX**	**Project Number**	**: 20116**
Instrument ID	**: SV119**	**Ical Ref**	**: ICAL20642**
Calibration dates	**: 12/07/23 13:10 12/07/23 15:42**		

Calibration Files
L1 =IL1.D L2 =IL2.D L3 =IL3.D L4 =IL4.D L5 =IL5.D L6 =IL6.D L7 =IL7.D L8 =IL8.D
L9 =IL9.D L10 =IL10.D

	Compound	L1	L2	L3	L4	L5	L6	L7	L8	L9	L10	Avg	%RSD
37) t	Benzo[b]fluoranthene	1.513	1.472	1.474	1.420	1.462	1.457	1.506	1.366	1.213	1.091	1.397	9.93
38) t	Benzo[k]fluoranthene	1.429	1.404	1.420	1.430	1.443	1.413	1.377	1.233	1.133	0.987	1.327	11.80
39) t	Benzo[a]pyrene	1.272	1.281	1.279	1.262	1.288	1.281	1.306	1.222	1.105	1.003	1.230	7.99
40) t	Indeno[1,2,3-cd]pyrene	1.404	1.377	1.411	1.365	1.409	1.420	1.423	1.301	1.150	1.109	1.337	8.64
41) t	Dibenzo[a,h]anthracene	1.309	1.337	1.331	1.339	1.363	1.351	1.311	1.143	0.997	0.957	1.244	12.38
42) t	Benzo[g,h,i]perylene	1.473	1.463	1.458	1.432	1.450	1.466	1.429	1.255	1.107	1.065	1.360	11.61

Initial Calibration Summary
Form 6
Semivolatiles

Client	**: Alpha Geoscience**	**Lab Number**	**: L2410579**
Project Name	**: HUNTINGTON READY MIX**	**Project Number**	**: 20116**
Instrument ID	**: SV128**	**Ical Ref**	**: ICAL20676**
Calibration dates	**: 12/11/23 13:27 12/13/23 07:14**		

Calibration Files
L1 =IL1a.D L2 =IL2.D L3 =IL3.D L4 =IL4.D L5 =IL5.D L6 =IL6.D L7 =IL7.D L8 =IL8.D
L9 =IL9.D L10 =IL10.D

		Compound	L1	L2	L3	L4	L5	L6	L7	L8	L9	L10	Avg	%RSD	
1)	i	1,4-Dichlorobenzene-d4	ISTD												
2)	s	2-Fluorophenol		0.817	0.995	1.007	0.984	1.029	1.065	1.064	1.060	1.045	1.007	7.69	
3)	s	Phenol-d6		1.051	1.144	1.147	1.149	1.172	1.246	1.241	1.222	1.222	1.177	5.34	
4)	T	bis(2-Chloroethyl)ether		0.934	0.995	1.007	1.025	1.000	1.017	1.039	1.025	1.007	1.005	3.00	
5)	T	n-Nitrosodi-n-propylamine			0.647	0.656	0.663	0.675	0.743	0.761	0.729	0.743	0.702	6.60	
6)	t	Hexachloroethane			0.448	0.445	0.497	0.488	0.492	0.492	0.488	0.471	0.478	4.36	
7)	s	Nitrobenzene-d5		0.817	0.895	0.913	0.932	0.923	1.015	1.028	1.021	1.016	0.951	7.69	
8)	i	Naphthalene-d8	ISTD												
9)	t	Naphthalene		1.009	1.040	1.028	1.033	1.042	1.051	1.042	1.004	0.984	1.026	2.14	
10)	t	Hexachlorobutadiene			0.245	0.234	0.236	0.235	0.235	0.238	0.233	0.223	0.235	2.60	
11)	t	2-Methylnaphthalene		0.606	0.635	0.628	0.660	0.655	0.689	0.697	0.668	0.660	0.655	4.43	
12)	t	1-Methylnaphthalene			0.606	0.593	0.609	0.601	0.648	0.650	0.619	0.610	0.617	3.40	
13)	s	2-Fluorobiphenyl		0.807	0.852	0.821	0.842	0.824	0.907	0.894	0.848	0.840	0.848	3.89	
14)	t	2-Chloronaphthalene		0.673	0.722	0.683	0.713	0.698	0.754	0.754	0.713	0.710	0.713	3.90	
15)	t	2,6-Dinitrotoluene				0.083	0.090	0.092	0.122	0.136	0.140	0.151		*Q	0.9997
16)	t	Acenaphthylene		0.976	0.996	0.959	1.030	0.995	1.140	1.165	1.123	1.128	1.057	7.66	
17)	i	Acenaphthene-d10	ISTD												
18)	t	Acenaphthene			1.354	1.374	1.357	1.343	1.391	1.381	1.331	1.287	1.352	2.43	
19)	t	2,4-Dinitrotoluene				0.185	0.204	0.213	0.278	0.312	0.329	0.342		*Q	0.9996
20)	t	Fluorene		1.279	1.301	1.308	1.352	1.326	1.459	1.453	1.405	1.399	1.365	4.90	
21)	s	2,4,6-Tribromophenol			0.186	0.159	0.171	0.175	0.213	0.226	0.232	0.238	0.200	15.42	
22)	i	Phenanthrene-d10	ISTD												
23)	T	4,6-Dinitro-o-cresol					0.050	0.056	0.068	0.080	0.082	0.085		*L	0.9989
24)	t	Hexachlorobenzene	0.287	0.266	0.260	0.278	0.267	0.268	0.265	0.271	0.259	0.242	0.266	4.47	
25)	t	Pentachlorophenol			0.065	0.069	0.075	0.092	0.115	0.142				*Q	0.9994
26)	t	Phenanthrene		1.181	1.118	1.084	1.073	1.063	1.089	1.091	1.042	0.996	1.082	4.70	
27)	t	Anthracene		1.092	1.027	1.000	1.014	1.015	1.072	1.106	1.064	1.017	1.045	3.71	
28)	t	Fluoranthene		1.151	1.131	1.035	1.150	1.152	1.253	1.275	1.273	1.275	1.188	7.13	
29)	t	Pyrene		1.210	1.157	1.084	1.134	1.119	1.345	1.359	1.336	1.322	1.230	9.02	
30)	s	4-Terphenyl-d14		0.886	0.832	0.702	0.745	0.726	0.905	0.920	0.897	0.889	0.833	10.33	
31)	i	Chrysene-d12	ISTD												
32)	t	Benzo[a]anthracene		2.630	1.800	1.496	1.470	1.404	1.422	1.470	1.423	1.434		*L	0.9999
33)	t	3,3'-Dichlorobenzidine				0.446	0.461	0.523	0.515	0.561	0.578	0.576		*L	0.9997
34)	t	Chrysene		1.367	1.427	1.407	1.395	1.389	1.426	1.395	1.345	1.259	1.379	3.78	
35)	T	bis(2-Ethylhexyl)phthalate					0.502	0.515	0.606	0.756	0.808	0.841		*Q	0.9992
36)	i	Perylene-d12	ISTD												

Initial Calibration Summary
Form 6
Semivolatiles

Client	**: Alpha Geoscience**	**Lab Number**	**: L2410579**
Project Name	**: HUNTINGTON READY MIX**	**Project Number**	**: 20116**
Instrument ID	**: SV128**	**Ical Ref**	**: ICAL20676**
Calibration dates	**: 12/11/23 13:27 12/13/23 07:14**		

Calibration Files
L1 =IL1a.D L2 =IL2.D L3 =IL3.D L4 =IL4.D L5 =IL5.D L6 =IL6.D L7 =IL7.D L8 =IL8.D
L9 =IL9.D L10 =IL10.D

	Compound	L1	L2	L3	L4	L5	L6	L7	L8	L9	L10	Avg	%RSD
37) t	Benzo[b]fluoranthene		1.149	1.175	1.189	1.269	1.207	1.255	1.335	1.272	1.298	1.239	4.99
38) t	Benzo[k]fluoranthene		1.090	1.024	1.066	1.082	1.137	1.185	1.281	1.299	1.210	1.153	8.42
39) t	Benzo[a]pyrene		1.002	1.011	1.004	1.051	1.072	1.133	1.198	1.189	1.157	1.091	7.32
40) t	Indeno[1,2,3-cd]pyrene		1.031	1.120	1.075	1.058	1.095	1.134	1.133	1.107	1.063	1.091	3.32
41) t	Dibenzo[a,h]anthracene		1.002	1.011	0.969	0.996	1.069	1.164	1.160	1.120	1.043	1.059	6.93
42) t	Benzo[g,h,i]perylene		1.120	1.147	1.145	1.117	1.178	1.224	1.169	1.068	1.035	1.134	5.06

Response Factor Report SV119

Method Path : I:\8270SIM\sv119\231207nLVIical\
Method File : SIM-LVI_231207n_sv119.M
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Fri Dec 08 13:55:26 2023
Response Via : Initial Calibration

Calibration Files
L1 =IL1.D L2 =IL2.D L3 =IL3.D L4 =IL4.D L5 =IL5.D L6 =IL6.D L7 =IL7.D L8 =IL8.D
L9 =IL9.D L10 =IL10.D

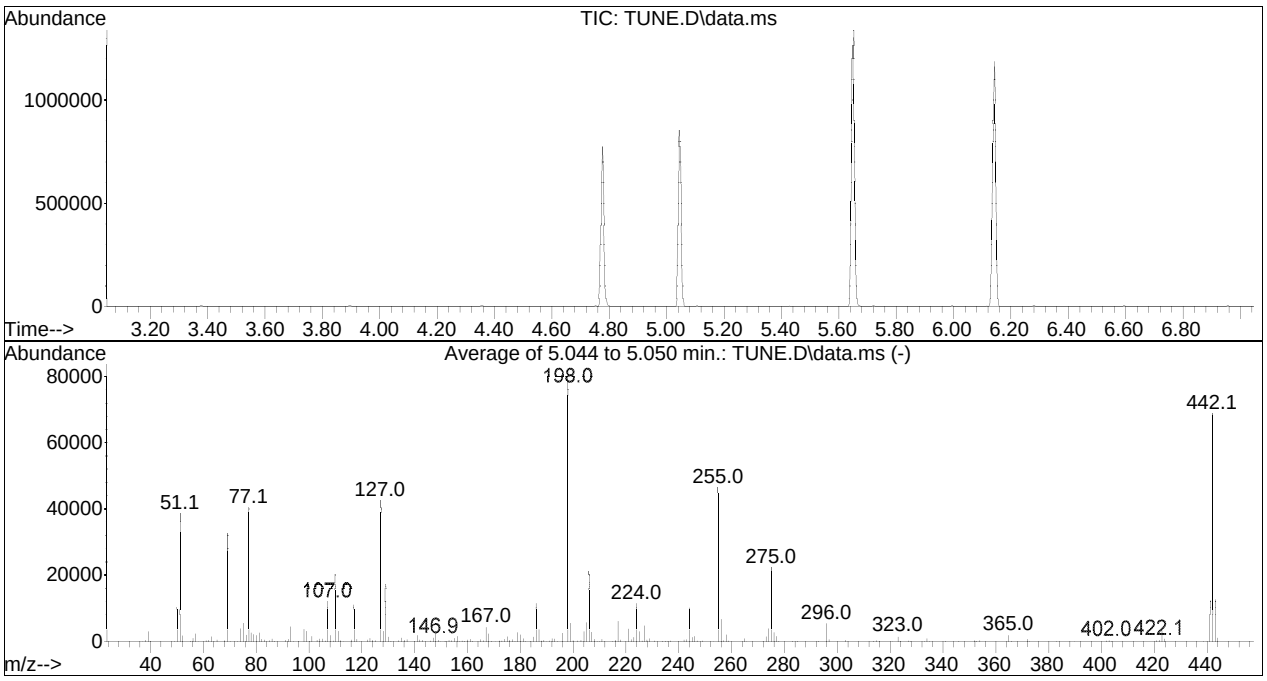
		Compound	L1	L2	L3	L4	L5	L6	L7	L8	L9	L10	Avg	%RSD
1)	i	1,4-Dichlorobenzene-d4	----------ISTD----------											
2)	s	2-Fluorophenol	1.128	1.130	1.105	1.108	1.126	1.154	1.183	1.104	0.991	0.913	1.094	7.38
3)	s	Phenol-d6	1.431	1.310	1.266	1.271	1.295	1.318	1.344	1.361	1.291	1.227	1.311	4.35
4)	T	bis(2-Chloroethyl)ether	1.279	1.233	1.161	1.139	1.143	1.131	1.127	1.055	0.978	0.906	1.115	9.94
5)	T	n-Nitrosodi-n-propylamine	0.606	0.634	0.623	0.607	0.628	0.633	0.695	0.768	0.761	0.716	0.667	9.38
6)	t	Hexachloroethane	0.555	0.531	0.504	0.484	0.482	0.480	0.504	0.500	0.471	0.436	0.495	6.61
7)	s	Nitrobenzene-d5	0.909	1.019	0.996	0.951	0.985	1.001	1.054	1.070	1.020	0.943	0.995	5.02
8)	i	Naphthalene-d8	----------ISTD----------											
9)	t	Naphthalene	0.998	1.012	1.012	0.992	0.994	0.993	0.999	0.932	0.849	0.770	0.955	8.60
10)	t	Hexachlorobutadiene	0.221	0.210	0.218	0.218	0.216	0.214	0.217	0.199	0.181	0.164	0.206	9.28
11)	t	2-Methylnaphthalene	0.732	0.746	0.743	0.748	0.749	0.742	0.749	0.688	0.618	0.546	0.706	9.93
12)	t	1-Methylnaphthalene	0.707	0.693	0.703	0.693	0.699	0.686	0.677	0.610	0.553	0.491	0.651	11.50
13)	s	2-Fluorobiphenyl	0.988	0.971	0.984	0.978	0.990	0.959	0.936	0.808	0.713	0.607	0.893	15.29
14)	t	2-Chloronaphthalene	0.802	0.813	0.816	0.806	0.806	0.788	0.773	0.707	0.645	0.566	0.752	11.40
15)	t	2,6-Dinitrotoluene		0.164	0.169	0.162	0.166	0.164	0.174	0.190	0.182	0.159	0.170	6.08
16)	t	Acenaphthylene	1.199	1.148	1.165	1.153	1.164	1.163	1.188	1.114	1.014	0.872	1.118	9.00
17)	i	Acenaphthene-d10	----------ISTD----------											
18)	t	Acenaphthene	1.289	1.260	1.273	1.276	1.282	1.287	1.307	1.236	1.133	1.025	1.237	7.18
19)	t	2,4-Dinitrotoluene		0.323	0.315	0.326	0.331	0.350	0.402	0.450	0.431	0.390	0.369	13.78
20)	t	Fluorene	1.538	1.530	1.512	1.514	1.531	1.533	1.582	1.490	1.349	1.202	1.478	7.75
21)	s	2,4,6-Tribromophenol	0.215	0.214	0.203	0.207	0.204	0.214	0.239	0.253	0.241	0.216	0.221	7.87
22)	i	Phenanthrene-d10	----------ISTD----------											
23)	T	4,6-Dinitro-o-cresol					0.076	0.091	0.107	0.125	0.123	0.118	*L	0.9991
24)	t	Hexachlorobenzene	0.291	0.267	0.269	0.265	0.271	0.269	0.271	0.254	0.226	0.203	0.259	9.86
25)	t	Pentachlorophenol			0.121	0.128	0.132	0.135	0.156	0.176	0.171	0.161	*L	0.9984
26)	t	Phenanthrene	1.082	1.054	1.058	1.046	1.067	1.064	1.067	1.004	0.902	0.815	1.016	8.65
27)	t	Anthracene	1.043	1.060	1.044	1.030	1.045	1.043	1.068	1.015	0.912	0.815	1.008	8.01
28)	t	Fluoranthene	1.460	1.462	1.429	1.426	1.420	1.422	1.427	1.256	1.114	0.975	1.339	12.62
29)	t	Pyrene	1.523	1.533	1.507	1.491	1.466	1.461	1.439	1.248	1.108	0.982	1.376	14.11
30)	s	4-Terphenyl-d14	1.122	1.124	1.093	1.087	1.077	1.050	1.016	0.843	0.748	0.647	0.981	17.46
31)	i	Chrysene-d12	----------ISTD----------											
32)	t	Benzo[a]anthracene		2.530	1.848	1.564	1.487	1.431	1.486	1.464	1.363	1.270	*L	0.9970
33)	t	3,3'-Dichlorobenzidine				0.520	0.544	0.563	0.626	0.694	0.664	0.619	0.604	10.63
34)	t	Chrysene	1.298	1.317	1.329	1.332	1.343	1.336	1.365	1.373	1.297	1.212	1.320	3.44
35)	T	bis(2-Ethylhexyl)phthalate				0.585	0.606	0.615	0.732	0.932	0.943	0.884	*L	0.9979
36)	i	Perylene-d12	----------ISTD----------											
37)	t	Benzo[b]fluora...	1.513	1.472	1.474	1.420	1.462	1.457	1.506	1.366	1.213	1.091	1.397	9.93
38)	t	Benzo[k]fluora...	1.429	1.404	1.420	1.430	1.443	1.413	1.377	1.233	1.133	0.987	1.327	11.80
39)	t	Benzo[a]pyrene	1.272	1.281	1.279	1.262	1.288	1.281	1.306	1.222	1.105	1.003	1.230	7.99
40)	t	Indeno[1,2,3-c...	1.404	1.377	1.411	1.365	1.409	1.420	1.423	1.301	1.150	1.109	1.337	8.64
41)	t	Dibenzo[a,h]anthracene	1.309	1.337	1.331	1.339	1.363	1.351	1.311	1.143	0.997	0.957	1.244	12.38
42)	t	Benzo[g,h,i]pe...	1.473	1.463	1.458	1.432	1.450	1.466	1.429	1.255	1.107	1.065	1.360	11.61

(#) = Out of Range

Data Path : I:\8270SIM\sv119\231207nLVIical\
Data File : TUNE.D
Acq On : 07 Dec 2023 12:42 pm
Operator : sv119:dv
Sample : TUNE
Misc : WG1861379,,ical
ALS Vial : 48 Sample Multiplier: 1

Integration File: rteint.p

Method : I:\8270SIM\sv119\231207nLVIical\SIM-LVI_230307n_sv119.M
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Fri Dec 08 07:57:42 2023



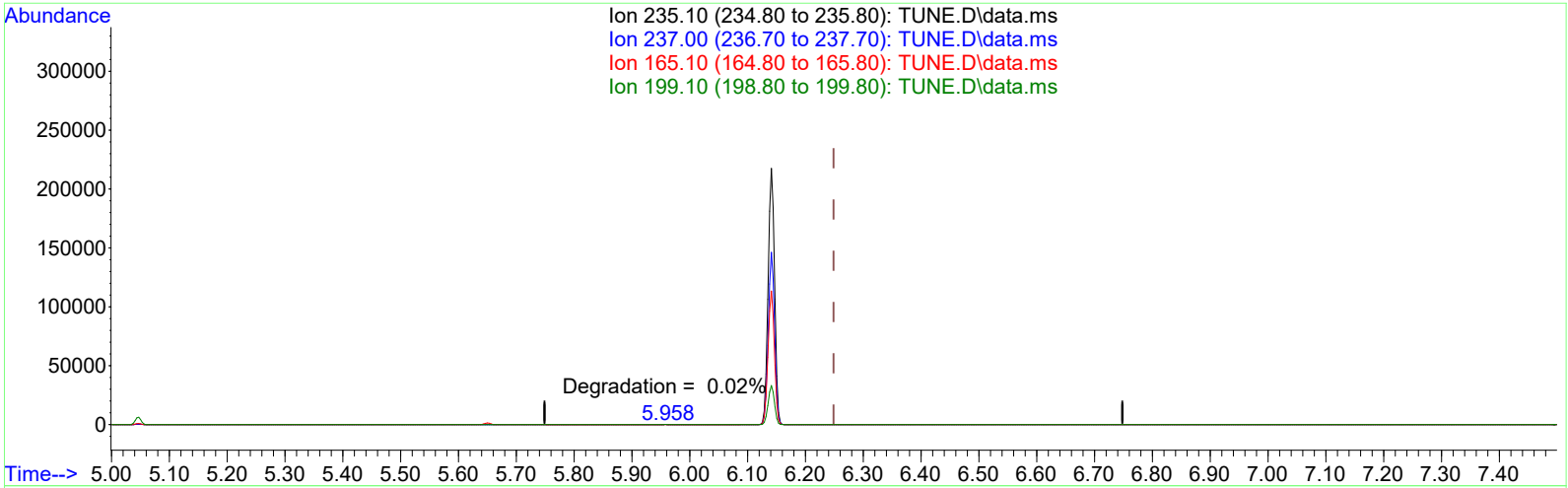
Spectrum Information: Average of 5.044 to 5.050 min.

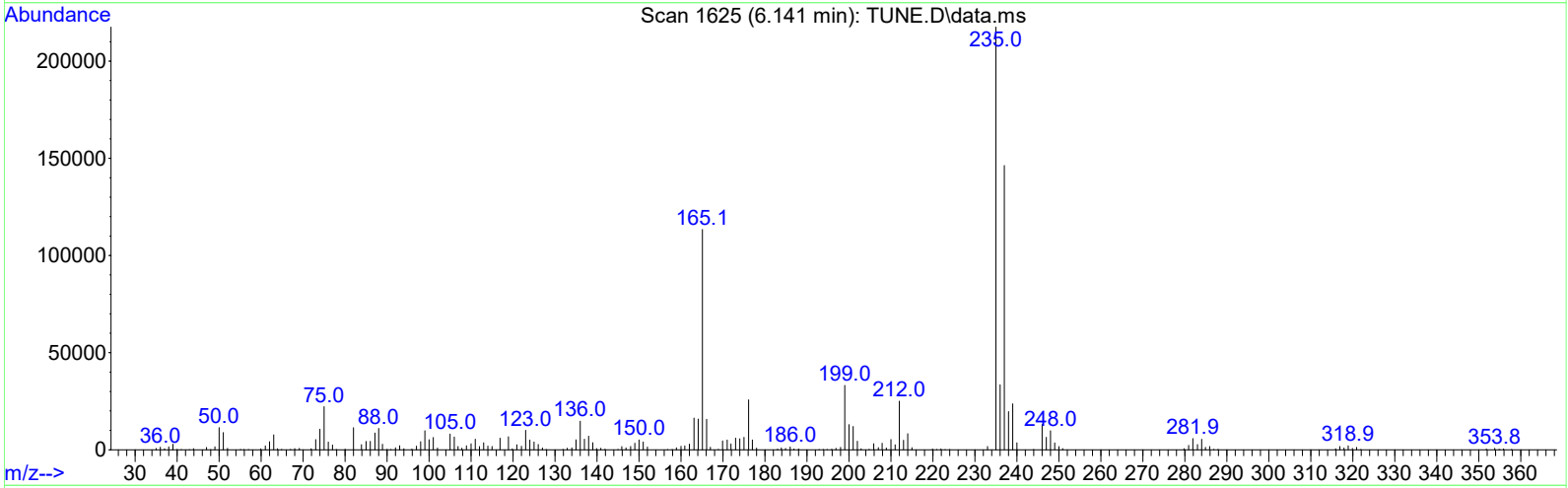
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	48.2	38435	PASS
68	69	0.00	2	1.5	504	PASS
69	69	100	100	100.0	32517	PASS
70	69	0.00	2	0.6	181	PASS
127	198	10	80	53.2	42363	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	79693	PASS
199	198	5	9	6.8	5457	PASS
275	198	10	60	27.9	22269	PASS
365	198	1	100	2.5	2011	PASS
441	442	0.01	24	18.2	12511	PASS
442	198	50	100	86.2	68669	PASS
443	442	15	24	18.7	12813	PASS

Quantitation Report (Qedit)

Data Path : I:\8270SIM\sv119\231207nLVIical\
Data File : TUNE.D
Acq On : 07 Dec 2023 12:42 pm
Operator : sv119:dv
Sample : TUNE
Misc : WG1861379,,ical
ALS Vial : 48 Sample Multiplier: 1

Quant Time: Dec 07 17:48:24 2023
Quant Method : I:\8270SIM\sv119\231207nLVIical\dftppsv119.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sun Oct 22 21:59:55 2023
Response via : Continuing Cal File: C:\ENVDEMO\BNADATA\DLWB002.D





TIC: TUNE.D\data.ms

(6) ddt (T)

6.141min (-0.108) 27.69

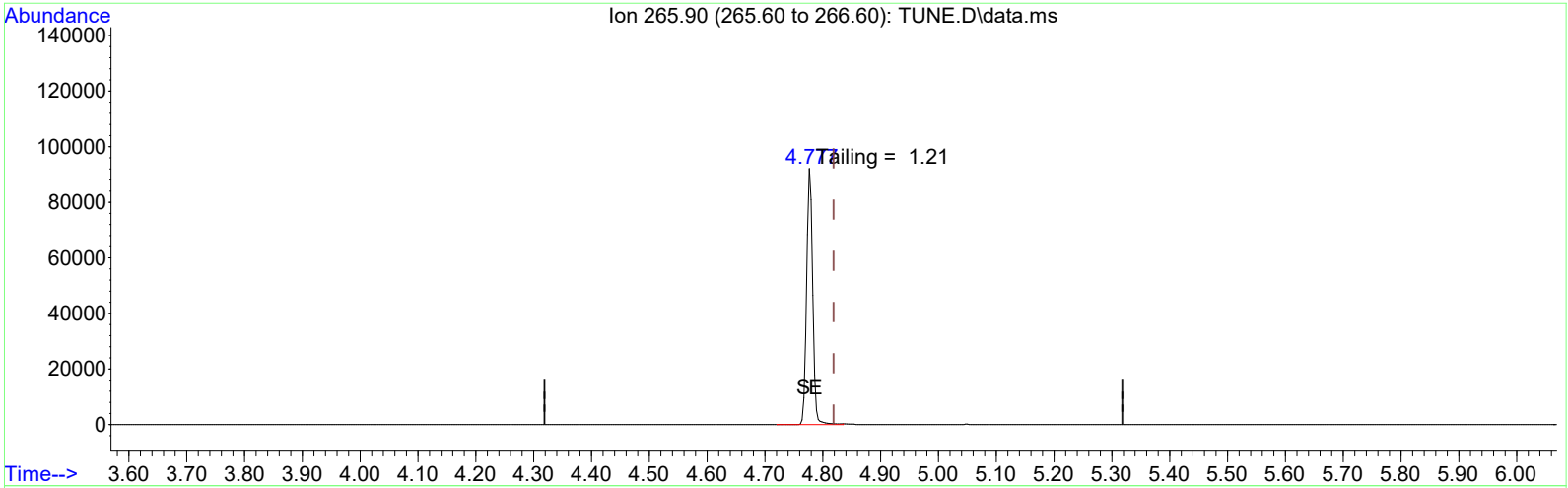
response 168780

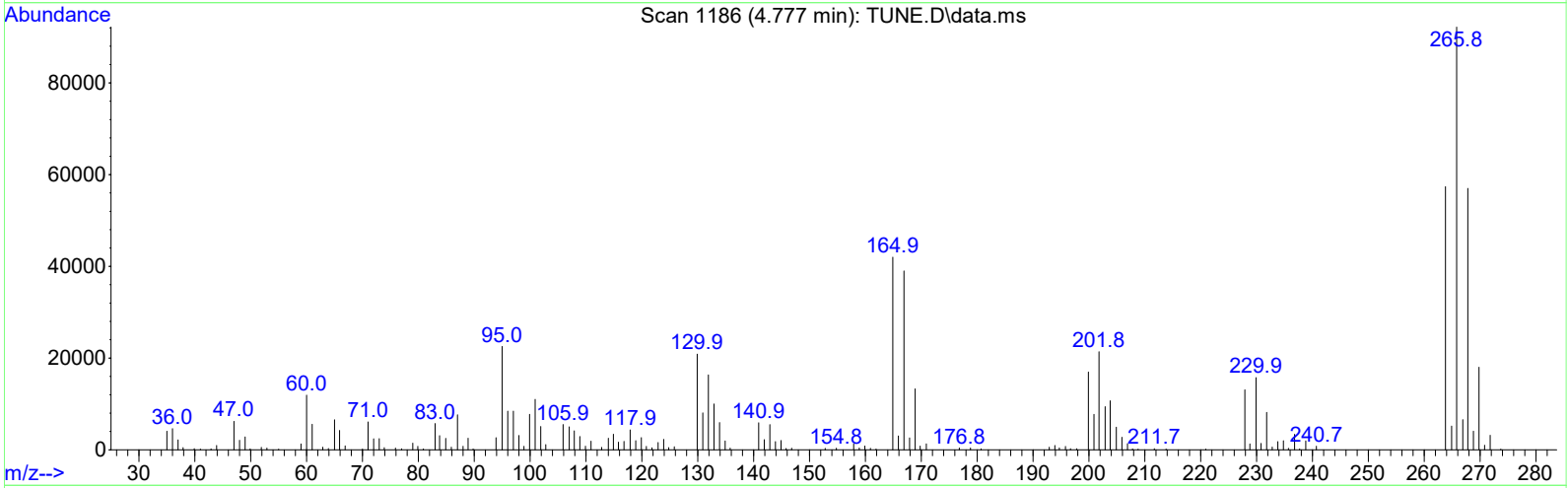
Ion	Exp%	Act%
235.10	100.00	100.00
237.00	65.60	66.10
165.10	53.30	51.32
199.10	17.10	14.92

Quantitation Report (Qedit)

Data Path : I:\8270SIM\sv119\231207nLVIical\
Data File : TUNE.D
Acq On : 07 Dec 2023 12:42 pm
Operator : sv119:dv
Sample : TUNE
Misc : WG1861379,,ical
ALS Vial : 48 Sample Multiplier: 1

Quant Time: Dec 07 17:48:24 2023
Quant Method : I:\8270SIM\sv119\231207nLVIical\dftppsv119.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sun Oct 22 21:59:55 2023
Response via : Continuing Cal File: C:\ENVDEMO\BNADATA\DLWB002.D





TIC: TUNE.D\data.ms

(1) pentachlorophenol (T)

4.777min (-0.042) 32.19

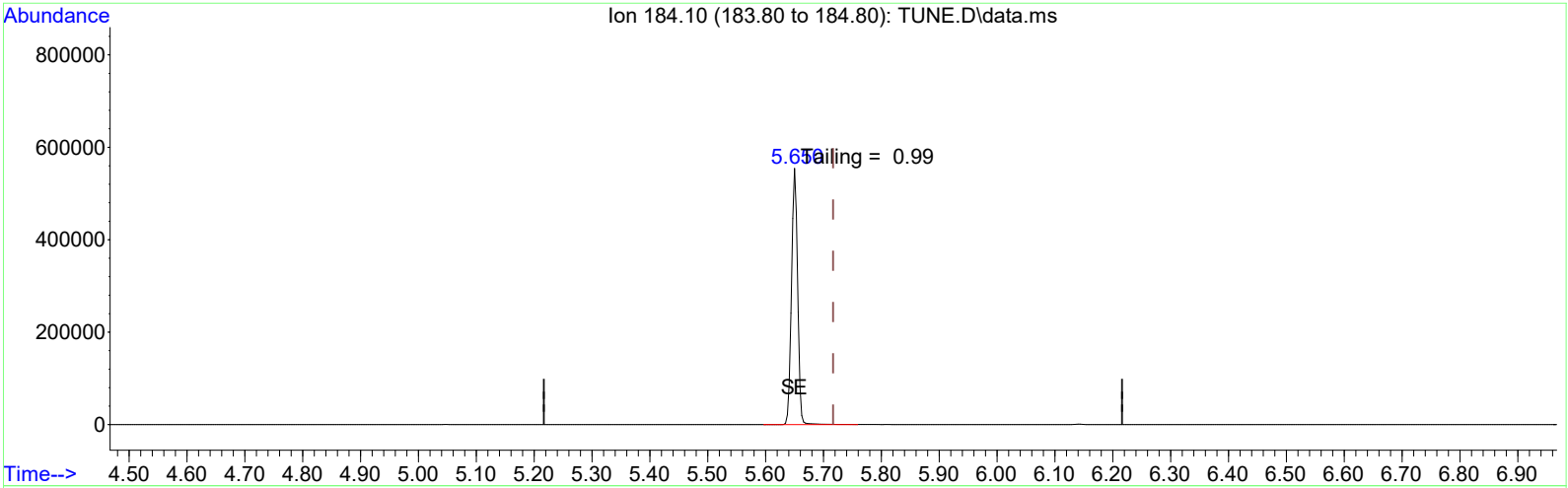
response 67620

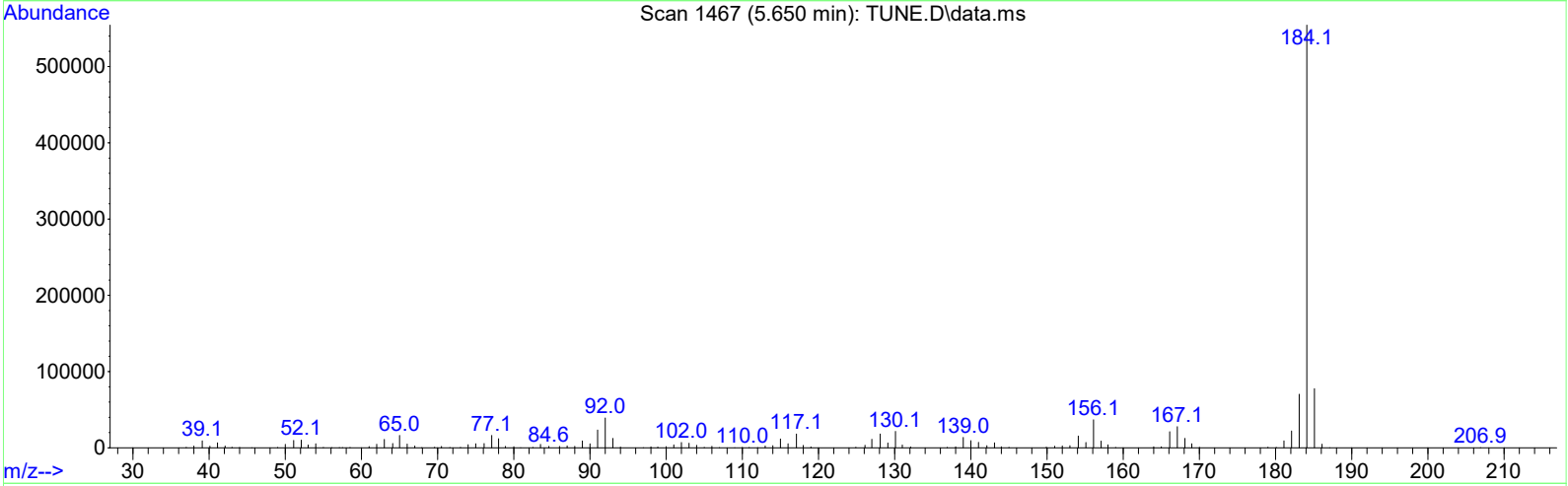
Ion	Exp%	Act%
265.90	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\8270SIM\sv119\231207nLVIical\
Data File : TUNE.D
Acq On : 07 Dec 2023 12:42 pm
Operator : sv119:dv
Sample : TUNE
Misc : WG1861379,,ical
ALS Vial : 48 Sample Multiplier: 1

Quant Time: Dec 07 17:48:24 2023
Quant Method : I:\8270SIM\sv119\231207nLVIical\dftppsv119.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sun Oct 22 21:59:55 2023
Response via : Continuing Cal File: C:\ENVDEMO\BNADATA\DLWB002.D





TIC: TUNE.D\data.ms

(3) benzidine (T)

5.650min (-0.067) 40.09

response 408109

Ion	Exp%	Act%
184.10	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\231207nLVIical\
Data File : IL10.D
Acq On : 07 Dec 2023 01:10 pm
Operator : sv119:dv
Sample : IL10,32,,20 Lot#10186
Misc : WG1861379,,ical
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 08 14:08:01 2023
Quant Method : I:\8270SIM\sv119\231207nLVIical\SIM-LVI_231207n_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Dec 08 13:32:05 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv119\231207nLVIical\IL7.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.169	152	40861	4000.000	ng/ml	#-0.01
Standard Area 1 = 44131			Recovery = 92.59%			
8) Naphthalene-d8	2.832	136	155973	4000.000	ng/ml	0.00
Standard Area 1 = 154719			Recovery = 100.81%			
17) Acenaphthene-d10	3.809	164	85515	4000.000	ng/ml	0.00
Standard Area 1 = 88793			Recovery = 96.31%			
22) Phenanthrene-d10	4.651	188	190707	4000.000	ng/ml	0.00
Standard Area 1 = 199383			Recovery = 95.65%			
31) Chrysene-d12	6.265	240	152241	4000.000	ng/ml	0.07
Standard Area 1 = 198085			Recovery = 76.86%			
36) Perylene-d12	7.440	264	191579	4000.000	ng/ml	0.07
Standard Area 1 = 214743			Recovery = 89.21%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.567	112	186491	16686.494	ng/ml	-0.02
Spiked Amount 5000.000	Range 15 - 110		Recovery = 333.73%#			
3) Phenol-d6	1.980	99	250730	18715.673	ng/ml	-0.01
Spiked Amount 5000.000	Range 15 - 110		Recovery = 374.31%#			
7) Nitrobenzene-d5	2.450	82	192700	18962.762	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 758.51%#			
13) 2-Fluorobiphenyl	3.431	172	473158	13582.911	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 543.32%#			
21) 2,4,6-Tribromophenol	4.257	330	92508	19621.690	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 392.43%#			
30) 4-Terphenyl-d14	5.604	244	617330	13204.624	ng/ml	0.04
Spiked Amount 2500.000	Range 30 - 130		Recovery = 528.18%#			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	2.032	93	185151	16251.060	ng/ml	95
5) n-nitrosodi-n-propylamine	2.372	70	146273	21466.364	ng/ml#	89
6) Hexachloroethane	2.428	117	89168	17640.327	ng/ml	93
9) Naphthalene	2.845	128	600216	16116.112	ng/ml	99
10) Hexachlorobutadiene	2.919	225	127793	15933.038	ng/ml	100

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\231207nLVIical\
Data File : IL10.D
Acq On : 07 Dec 2023 01:10 pm
Operator : sv119:dv
Sample : IL10,32,,20 Lot#10186
Misc : WG1861379,,ical
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 08 14:08:01 2023
Quant Method : I:\8270SIM\sv119\231207nLVIical\SIM-LVI_231207n_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Dec 08 13:32:05 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv119\231207nLVIical\IL7.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
11) 2-Methylnaphthalene	3.225	142	425843	15464.273	ng/ml	95
12) 1-Methylnaphthalene	3.280	142	382653	15068.836	ng/ml	95
14) 2-Chloronaphthalene	3.496	162	441476	15050.592	ng/ml	98
15) 2,6-Dinitrotoluene	3.694	165	124084M4	18733.772	ng/ml	
16) Acenaphthylene	3.729	152	680215	15604.767	ng/ml	100
18) Acenaphthene	3.829	153	438420	16583.890	ng/ml	95
19) 2,4-Dinitrotoluene	3.921	165	166968	21183.449	ng/ml#	78
20) Fluorene	4.121	166	514064	16267.952	ng/ml	94
23) 4,6-Dinitro-o-cresol	4.153	198	112715	19617.410	ng/ml	93
24) Hexachlorobenzene	4.438	284	193903	15727.699	ng/ml	100
25) Pentachlorophenol	4.546	266	153186	19424.139	ng/ml	99
26) Phenanthrene	4.667	178	777282	16045.326	ng/ml	97
27) Anthracene	4.696	178	776770	16169.550	ng/ml	97
28) Fluoranthene	5.365	202	929267M6	14550.037	ng/ml	
29) Pyrene	5.501	202	936284	14274.318	ng/ml	100
32) Benzo[a]anthracene	6.259	228	966512	19121.130	ng/ml	97
33) 3,3'-Dichlorobenzidine	6.250	252	470850	20471.402	ng/ml	98
34) Chrysene	6.285	228	922604	18362.002	ng/ml	100
35) Bis(2-ethylhexyl)phtha...	6.295	149	673097	19560.689	ng/ml	94
37) Benzo[b]fluoranthene	7.091	252	1045462	15620.402	ng/ml	96
38) Benzo[k]fluoranthene	7.117	252	945582M3	14878.547	ng/ml	
39) Benzo[a]pyrene	7.389	252	960572	16305.121	ng/ml	96
40) Indeno[1,2,3-cd]pyrene	8.629	276	1062548	16595.151	ng/ml	97
41) Dibenzo[a,h]anthracene	8.665	278	916705M6	15388.442	ng/ml	
42) Benzo[g,h,i]perylene	8.961	276	1020547	15670.008	ng/ml	95

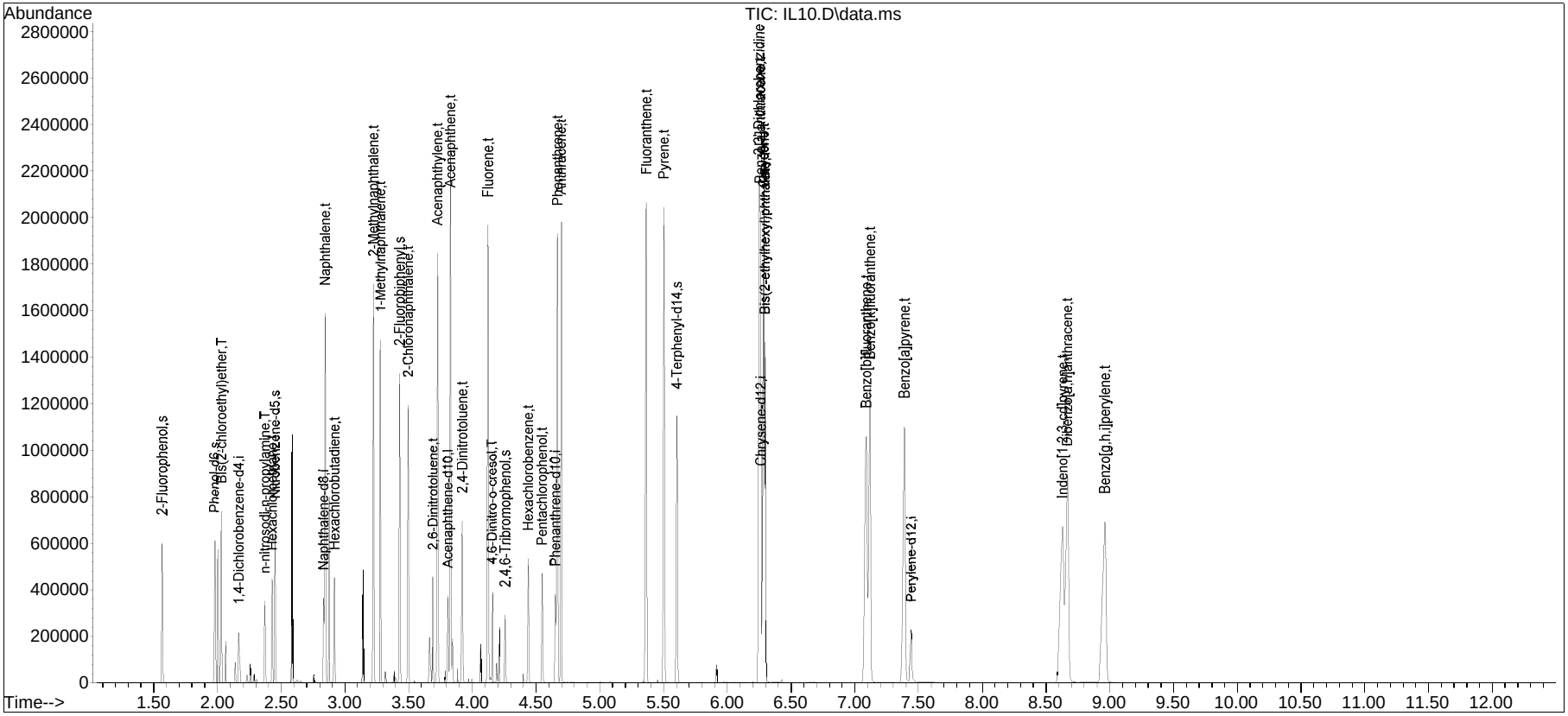
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\231207nLVIical\
Data File : IL10.D
Acq On : 07 Dec 2023 01:10 pm
Operator : sv119:dv
Sample : IL10,32,,20 Lot#10186
Misc : WG1861379,,ical
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 08 14:08:01 2023
Quant Method : I:\8270SIM\sv119\231207nLVIical\SIM-LVI_231207n_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Dec 08 13:32:05 2023
Response via : Initial Calibration

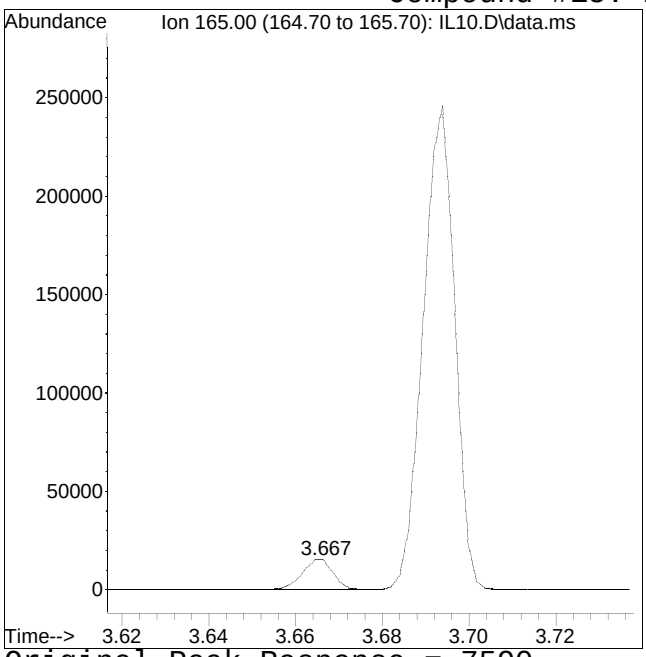
Sub List : Default - All compounds listedIical\IL7.D•



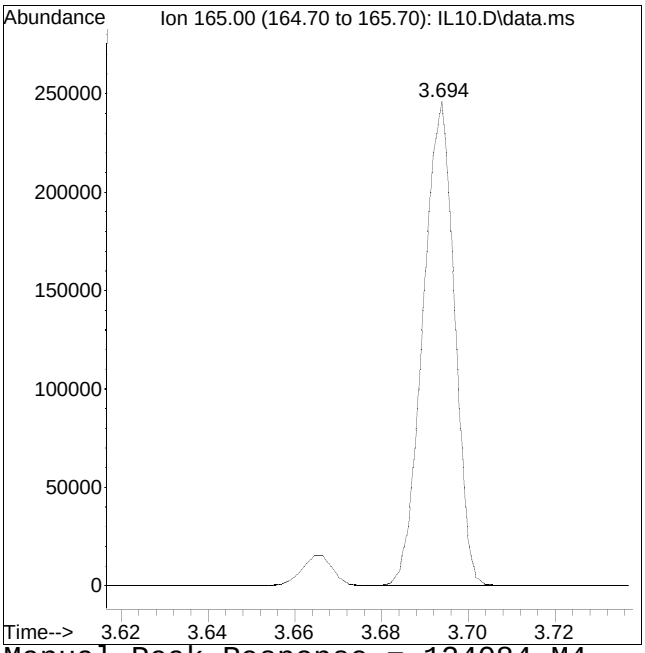
Manual Integration Report

Data Path : I:\8270SIM\sv119\231207nLVQMethod : SIM-LVI_231207n_sv119.M
Data File : IL10.D Operator : sv119:dv
Date Inj'd : 12/7/2023 1:10 pm Instrument : SV119
Sample : IL10,32,,20 Lot#10186 Quant Date : 12/8/2023 1:32 pm

Compound #15: 2,6-Dinitrotoluene



Original Peak Response = 7590



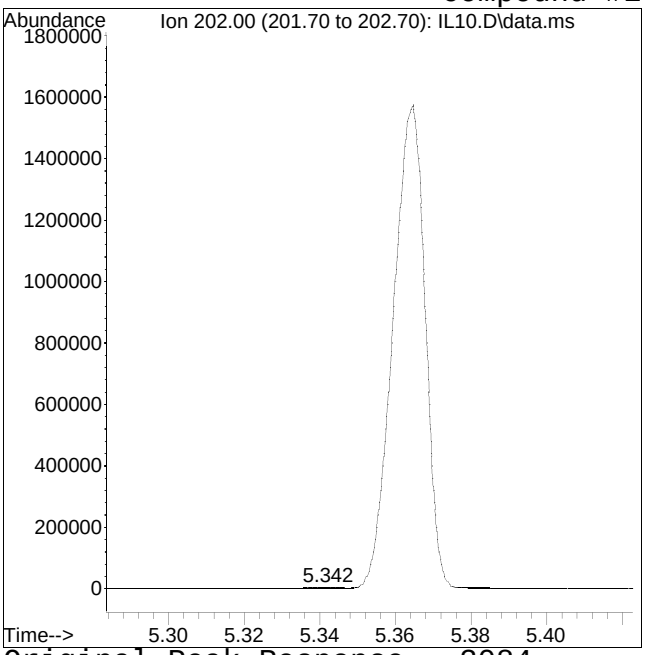
Manual Peak Response = 124084 M4

M4 = Poor automated baseline construction.

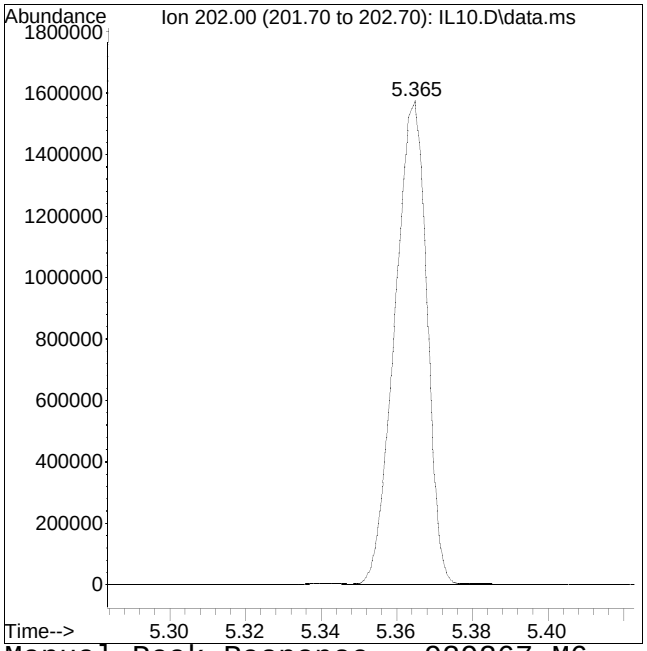
Manual Integration Report

Data Path : I:\8270SIM\sv119\231207nLVQMethod : SIM-LVI_231207n_sv119.M
Data File : IL10.D Operator : sv119:dv
Date Inj'd : 12/7/2023 1:10 pm Instrument : SV119
Sample : IL10,32,,20 Lot#10186 Quant Date : 12/8/2023 1:32 pm

Compound #28: Fluoranthene



Original Peak Response = 3084



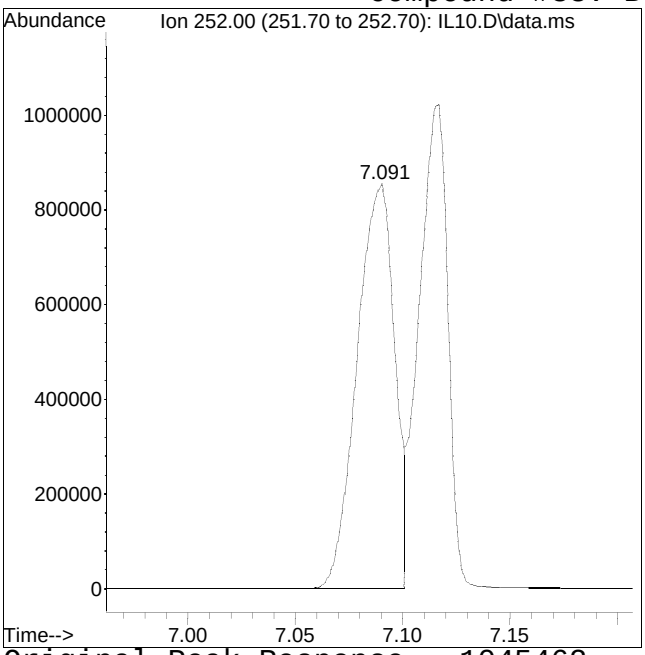
Manual Peak Response = 929267 M6

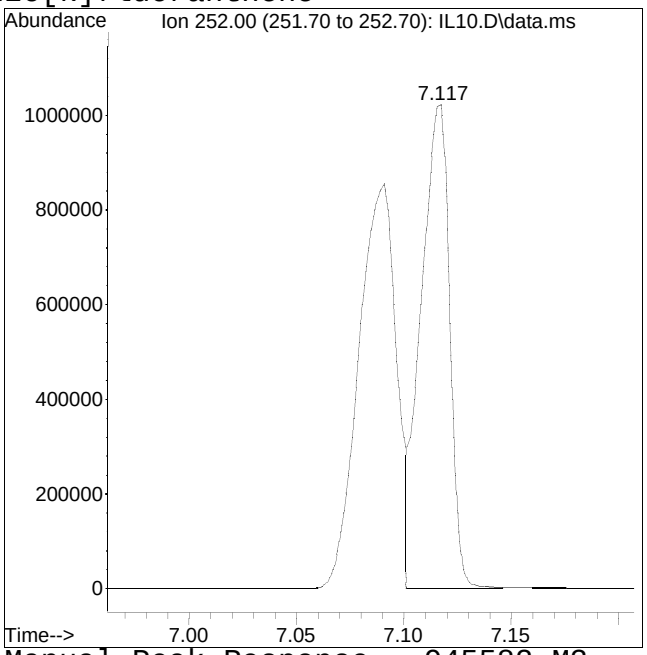
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

Data Path : I:\8270SIM\sv119\231207nLVQMethod : SIM-LVI_231207n_sv119.M
Data File : IL10.D Operator : sv119:dv
Date Inj'd : 12/7/2023 1:10 pm Instrument : SV119
Sample : IL10,32,,20 Lot#10186 Quant Date : 12/8/2023 1:32 pm

Compound #38: Benzo[k]fluoranthene



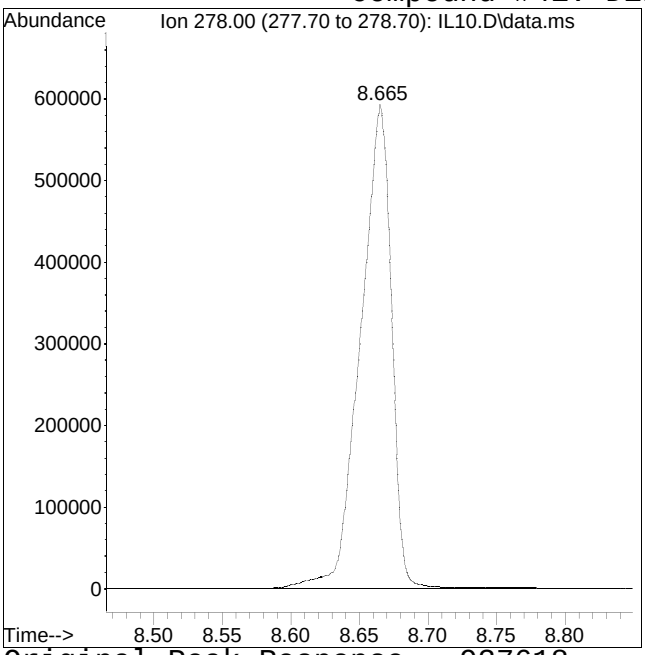


Original Peak Response = 1045462 Manual Peak Response = 945582 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

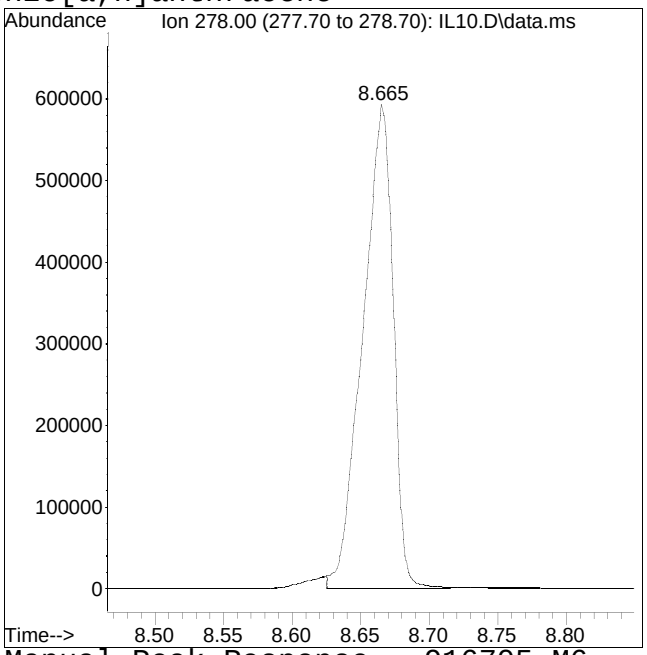
Manual Integration Report

Data Path : I:\8270SIM\sv119\231207nLVQMethod : SIM-LVI_231207n_sv119.M
Data File : IL10.D Operator : sv119:dv
Date Inj'd : 12/7/2023 1:10 pm Instrument : SV119
Sample : IL10,32,,20 Lot#10186 Quant Date : 12/8/2023 1:32 pm

Compound #41: Dibenzo[a,h]anthracene



Original Peak Response = 937618



Manual Peak Response = 916705 M6

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\231207nLVIical\
Data File : IL9.D
Acq On : 07 Dec 2023 01:27 pm
Operator : sv119:dv
Sample : IL9,32,,10 Lot#10227
Misc : WG1861379,,ical
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 08 13:36:23 2023
Quant Method : I:\8270SIM\sv119\231207nLVIical\SIM-LVI_231207n_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Dec 08 13:36:28 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv119\231207nLVIical\IL7.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.181	152	43469	4000.000	ng/ml	0.00
Standard Area 1 = 44131			Recovery = 98.50%			
8) Naphthalene-d8	2.841	136	167563	4000.000	ng/ml	0.00
Standard Area 1 = 154719			Recovery = 108.30%			
17) Acenaphthene-d10	3.810	164	95878	4000.000	ng/ml	0.00
Standard Area 1 = 88793			Recovery = 107.98%			
22) Phenanthrene-d10	4.648	188	219561	4000.000	ng/ml	0.00
Standard Area 1 = 199383			Recovery = 110.12%			
31) Chrysene-d12	6.211	240	183655	4000.000	ng/ml	0.01
Standard Area 1 = 198085			Recovery = 92.72%			
36) Perylene-d12	7.380	264	212358	4000.000	ng/ml	0.01
Standard Area 1 = 214743			Recovery = 98.89%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.583	112	107742	9061.949	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 181.24%#			
3) Phenol-d6	1.991	99	140242	9840.260	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 196.81%#			
7) Nitrobenzene-d5	2.459	82	110881	10256.669	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 410.27%#			
13) 2-Fluorobiphenyl	3.433	172	298612	7979.308	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 319.17%#			
21) 2,4,6-Tribromophenol	4.255	330	57671	10910.331	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 218.21%#			
30) 4-Terphenyl-d14	5.573	244	410542	7627.421	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 305.10%#			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	2.043	93	106309	8771.119	ng/ml	96
5) n-nitrosodi-n-propylamine	2.380	70	82666	11403.826	ng/ml#	89
6) Hexachloroethane	2.438	117	51193	9520.013	ng/ml	92
9) Naphthalene	2.851	128	355672	8889.425	ng/ml	99
10) Hexachlorobutadiene	2.926	225	75668	8781.629	ng/ml	100
11) 2-Methylnaphthalene	3.229	142	258724	8745.568	ng/ml	96
12) 1-Methylnaphthalene	3.283	142	231827	8497.866	ng/ml	96
14) 2-Chloronaphthalene	3.498	162	270055	8569.787	ng/ml	97
15) 2,6-Dinitrotoluene	3.693	165	76081	10691.951	ng/ml#	77

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\231207nLVIical\
Data File : IL9.D
Acq On : 07 Dec 2023 01:27 pm
Operator : sv119:dv
Sample : IL9,32,,10 Lot#10227
Misc : WG1861379,,ical
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 08 13:36:23 2023
Quant Method : I:\8270SIM\sv119\231207nLVIical\SIM-LVI_231207n_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Dec 08 13:36:28 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv119\231207nLVIical\IL7.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
16) Acenaphthylene	3.730	152	424720	9069.536 ng/ml	100
18) Acenaphthene	3.828	153	271474	9158.991 ng/ml	96
19) 2,4-Dinitrotoluene	3.920	165	103349	11694.806 ng/ml#	78
20) Fluorene	4.118	166	323294	9125.080 ng/ml	95
23) 4,6-Dinitro-o-cresol	4.149	198	67527	10230.031 ng/ml	91
24) Hexachlorobenzene	4.435	284	123915	8730.035 ng/ml	99
25) Pentachlorophenol	4.543	266	93745	10330.247 ng/ml	99
26) Phenanthrene	4.662	178	495220	8879.317 ng/ml	98
27) Anthracene	4.689	178	500661	9052.337 ng/ml	98
28) Fluoranthene	5.344	202	611510	8316.461 ng/ml	96
29) Pyrene	5.475	202	608403	8056.577 ng/ml	99
32) Benzo[a]anthracene	6.205	228	625915	10259.834 ng/ml	98
33) 3,3'-Dichlorobenzidine	6.194	252	304841	10986.700 ng/ml	99
34) Chrysene	6.228	228	595338	9821.938 ng/ml	100
35) Bis(2-ethylhexyl)phtha...	6.239	149	433194	10450.769 ng/ml	96
37) Benzo[b]fluoranthene	7.027	252	644077	8681.625 ng/ml	96
38) Benzo[k]fluoranthene	7.053	252	601617	8540.056 ng/ml	99
39) Benzo[a]pyrene	7.325	252	586685	8984.178 ng/ml	97
40) Indeno[1,2,3-cd]pyrene	8.561	276	610407	8600.653 ng/ml	96
41) Dibenzo[a,h]anthracene	8.597	278	529204M6	8014.334 ng/ml	
42) Benzo[g,h,i]perylene	8.891	276	587668	8140.433 ng/ml	94

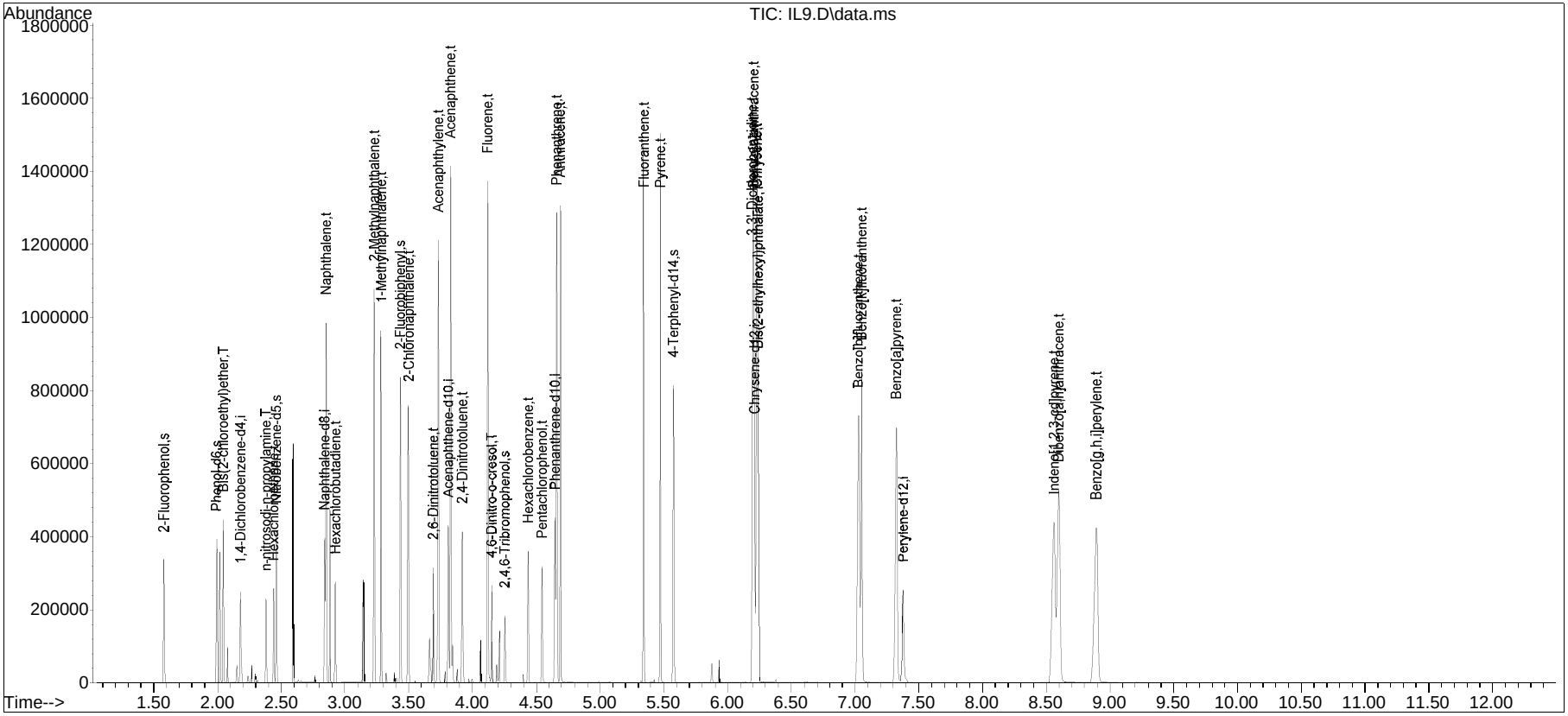
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\231207nLVIical\
Data File : IL9.D
Acq On : 07 Dec 2023 01:27 pm
Operator : sv119:dv
Sample : IL9,32,,10 Lot#10227
Misc : WG1861379,,ical
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 08 13:36:23 2023
Quant Method : I:\8270SIM\sv119\231207nLVIical\SIM-LVI_231207n_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Dec 08 13:36:28 2023
Response via : Initial Calibration

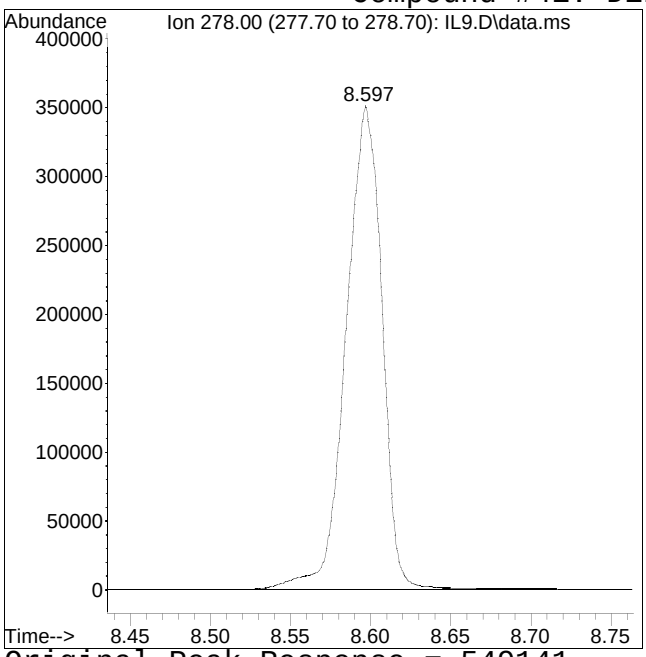
Sub List : Default - All compounds listedIical\IL7.D•



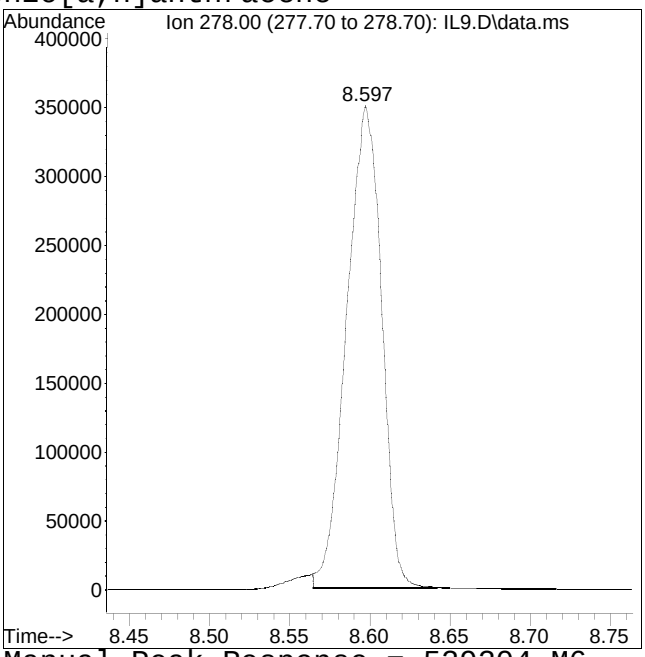
Manual Integration Report

Data Path : I:\8270SIM\sv119\231207nLVQMethod : SIM-LVI_231207n_sv119.M
Data File : IL9.D Operator : sv119:dv
Date Inj'd : 12/7/2023 1:27 pm Instrument : SV119
Sample : IL9,32,,10 Lot#10227 Quant Date : 12/8/2023 1:36 pm

Compound #41: Dibenzo[a,h]anthracene



Original Peak Response = 549141



Manual Peak Response = 529204 M6

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\231207nLVIical\
Data File : IL8.D
Acq On : 07 Dec 2023 01:46 pm
Operator : sv119:dv
Sample : IL8,32,,5 Lot#10228
Misc : WG1861379,,ical
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 08 13:36:06 2023
Quant Method : I:\8270SIM\sv119\231207nLVIical\SIM-LVI_231207n_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Dec 08 13:36:12 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv119\231207nLVIical\IL7.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.175	152	45223	4000.000	ng/ml	0.00
Standard Area 1 = 44131			Recovery = 102.47%			
8) Naphthalene-d8	2.834	136	168691	4000.000	ng/ml	0.00
Standard Area 1 = 154719			Recovery = 109.03%			
17) Acenaphthene-d10	3.807	164	96018	4000.000	ng/ml	0.00
Standard Area 1 = 88793			Recovery = 108.14%			
22) Phenanthrene-d10	4.645	188	214713	4000.000	ng/ml	0.00
Standard Area 1 = 199383			Recovery = 107.69%			
31) Chrysene-d12	6.222	240	183329	4000.000	ng/ml	0.02
Standard Area 1 = 198085			Recovery = 92.55%			
36) Perylene-d12	7.391	264	211224	4000.000	ng/ml	0.02
Standard Area 1 = 214743			Recovery = 98.36%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.575	112	62387	5043.720	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 100.87%			
3) Phenol-d6	1.982	99	76953	5190.083	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 103.80%			
7) Nitrobenzene-d5	2.452	82	60459	5375.644	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 215.03%#			
13) 2-Fluorobiphenyl	3.431	172	170356	4521.699	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 180.87%#			
21) 2,4,6-Tribromophenol	4.250	330	30337	5730.855	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 114.62%#			
30) 4-Terphenyl-d14	5.579	244	226214	4297.703	ng/ml	0.01
Spiked Amount 2500.000	Range 30 - 130		Recovery = 171.91%#			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	2.037	93	59640	4729.801	ng/ml	96
5) n-nitrosodi-n-propylamine	2.373	70	43424	5758.028	ng/ml#	89
6) Hexachloroethane	2.433	117	28289	5056.673	ng/ml	91
9) Naphthalene	2.845	128	196627	4881.501	ng/ml	100
10) Hexachlorobutadiene	2.921	225	41895	4829.601	ng/ml	100
11) 2-Methylnaphthalene	3.224	142	145094	4871.772	ng/ml	97
12) 1-Methylnaphthalene	3.280	142	128641	4683.942	ng/ml	97
14) 2-Chloronaphthalene	3.494	162	148988	4696.294	ng/ml	96
15) 2,6-Dinitrotoluene	3.688	165	40127	5601.491	ng/ml#	76
16) Acenaphthylene	3.727	152	234925	4983.080	ng/ml	100
18) Acenaphthene	3.825	153	148307	4996.287	ng/ml	96

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\231207nLVIical\
Data File : IL8.D
Acq On : 07 Dec 2023 01:46 pm
Operator : sv119:dv
Sample : IL8,32,,5 Lot#10228
Misc : WG1861379,,ical
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 08 13:36:06 2023
Quant Method : I:\8270SIM\sv119\231207nLVIical\SIM-LVI_231207n_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Dec 08 13:36:12 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv119\231207nLVIical\IL7.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
19) 2,4-Dinitrotoluene	3.915	165	53966	6097.802	ng/ml#	78
20) Fluorene	4.114	166	178798	5039.274	ng/ml	97
23) 4,6-Dinitro-o-cresol	4.143	198	33622	5230.937	ng/ml	91
24) Hexachlorobenzene	4.432	284	68110	4906.817	ng/ml	98
25) Pentachlorophenol	4.542	266	47244	5329.229	ng/ml	100
26) Phenanthrene	4.659	178	269467	4940.647	ng/ml	99
27) Anthracene	4.686	178	272423	5036.833	ng/ml	99
28) Fluoranthene	5.345	202	337208	4689.535	ng/ml	96
29) Pyrene	5.479	202	335005	4536.358	ng/ml	99
32) Benzo[a]anthracene	6.216	228	335541	5504.916	ng/ml	99
33) 3,3'-Dichlorobenzidine	6.205	252	159144	5745.869	ng/ml	99
34) Chrysene	6.240	228	314746	5201.941	ng/ml	100
35) Bis(2-ethylhexyl)phtha...	6.252	149	213688	5180.811	ng/ml	97
37) Benzo[b]fluoranthene	7.040	252	360629	4887.078	ng/ml	98
38) Benzo[k]fluoranthene	7.062	252	325647	4647.432	ng/ml	98
39) Benzo[a]pyrene	7.336	252	322721	4968.508	ng/ml	99
40) Indeno[1,2,3-cd]pyrene	8.568	276	343512	4866.080	ng/ml	95
41) Dibenzo[a,h]anthracene	8.606	278	301778	4594.701	ng/ml	96
42) Benzo[g,h,i]perylene	8.899	276	331306	4613.921	ng/ml	94

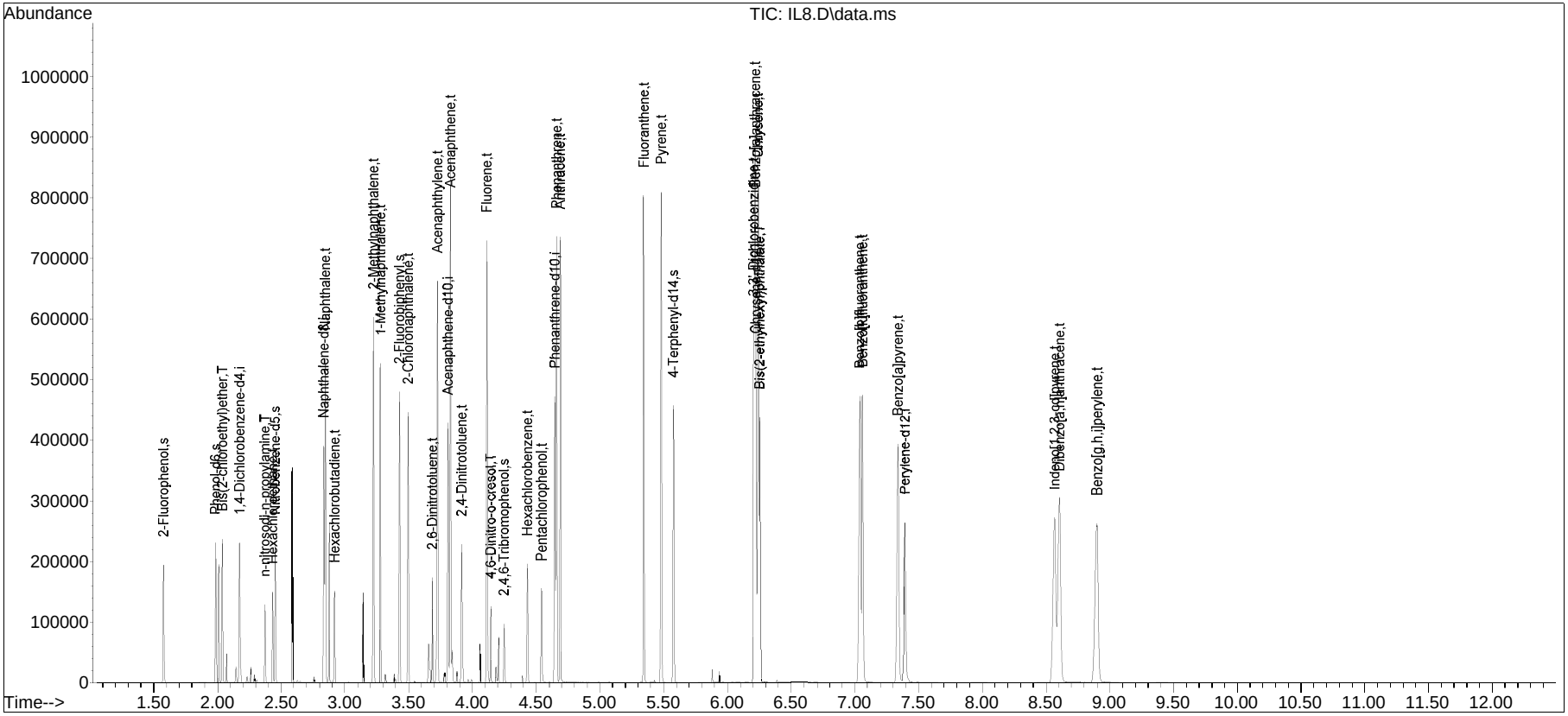
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\231207nLVIical\
Data File : IL8.D
Acq On : 07 Dec 2023 01:46 pm
Operator : sv119:dv
Sample : IL8,32,,5 Lot#10228
Misc : WG1861379,,ical
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 08 13:36:06 2023
Quant Method : I:\8270SIM\sv119\231207nLVIical\SIM-LVI_231207n_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Dec 08 13:36:12 2023
Response via : Initial Calibration

Sub List : Default - All compounds listedIical\IL7.D•



Manual Integration Report

Data Path	: I:\8270SIM\sv119\231207nLVQ	Method	: SIM-LVI_231207n_sv119.M
Data File	: IL8.D	Operator	: sv119:dv
Date Inj'd	: 12/7/2023 1:46 pm	Instrument	: SV119
Sample	: IL8,32,,5 Lot#10228	Quant Date	: 12/8/2023 1:36 pm

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\231207nLVIical\
Data File : IL7.D
Acq On : 07 Dec 2023 02:03 pm
Operator : sv119:dv
Sample : IL7,32,,1 Lot#10229
Misc : WG1861379,,ical
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Dec 08 13:35:39 2023
Quant Method : I:\8270SIM\sv119\231207nLVIical\SIM-LVI_231207n_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Dec 08 13:35:44 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv119\231207nLVIical\IL7.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.180	152	44131	4000.000	ng/ml	0.00
Standard Area 1 = 44131			Recovery = 100.00%			
8) Naphthalene-d8	2.839	136	154719	4000.000	ng/ml	0.00
Standard Area 1 = 154719			Recovery = 100.00%			
17) Acenaphthene-d10	3.808	164	88793	4000.000	ng/ml	0.00
Standard Area 1 = 88793			Recovery = 100.00%			
22) Phenanthrene-d10	4.643	188	199383	4000.000	ng/ml	0.00
Standard Area 1 = 199383			Recovery = 100.00%			
31) Chrysene-d12	6.199	240	198085	4000.000	ng/ml	0.00
Standard Area 1 = 198085			Recovery = 100.00%			
36) Perylene-d12	7.367	264	214743	4000.000	ng/ml	0.00
Standard Area 1 = 214743			Recovery = 100.00%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.584	112	13052	1081.308	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 21.63%			
3) Phenol-d6	1.991	99	14828	1024.818	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 20.50%			
7) Nitrobenzene-d5	2.459	82	11630	1059.656	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 42.39%			
13) 2-Fluorobiphenyl	3.433	172	36191	1047.353	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 41.89%			
21) 2,4,6-Tribromophenol	4.251	330	5316	1085.940	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 21.72%			
30) 4-Terphenyl-d14	5.566	244	50636	1035.969	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 41.44%			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	2.046	93	12434	1010.489	ng/ml	96
5) n-nitrosodi-n-propylamine	2.380	70	7670	1042.209	ng/ml#	90
6) Hexachloroethane	2.439	117	5556	1017.712	ng/ml	90
9) Naphthalene	2.850	128	38622	1045.426	ng/ml	100
10) Hexachlorobutadiene	2.924	225	8393	1054.908	ng/ml	100
11) 2-Methylnaphthalene	3.227	142	28982	1060.997	ng/ml	99
12) 1-Methylnaphthalene	3.282	142	26185	1039.520	ng/ml	99
14) 2-Chloronaphthalene	3.496	162	29915	1028.114	ng/ml	97
15) 2,6-Dinitrotoluene	3.688	165	6741	1025.982	ng/ml#	79
16) Acenaphthylene	3.727	152	45948	1062.633	ng/ml	100
18) Acenaphthene	3.825	153	29003	1056.580	ng/ml	99

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\231207nLVIical\
Data File : IL7.D
Acq On : 07 Dec 2023 02:03 pm
Operator : sv119:dv
Sample : IL7,32,,1 Lot#10229
Misc : WG1861379,,ical
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Dec 08 13:35:39 2023
Quant Method : I:\8270SIM\sv119\231207nLVIical\SIM-LVI_231207n_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Dec 08 13:35:44 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv119\231207nLVIical\IL7.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
19) 2,4-Dinitrotoluene	3.915	165	8924	1090.402	ng/ml#	79
20) Fluorene	4.114	166	35110	1070.065	ng/ml	99
23) 4,6-Dinitro-o-cresol	4.142	198	5322	929.435	ng/ml	93
24) Hexachlorobenzene	4.430	284	13522	1049.059	ng/ml	97
25) Pentachlorophenol	4.540	266	7782	954.860	ng/ml	100
26) Phenanthrene	4.657	178	53179	1049.998	ng/ml	100
27) Anthracene	4.685	178	53215	1059.542	ng/ml	100
28) Fluoranthene	5.338	202	71129	1065.243	ng/ml	95
29) Pyrene	5.468	202	71713	1045.741	ng/ml	99
32) Benzo[a]anthracene	6.190	228	73568	1108.505	ng/ml	100
33) 3,3'-Dichlorobenzidine	6.180	252	30996	1035.740	ng/ml	99
34) Chrysene	6.214	228	67585	1033.797	ng/ml	99
35) Bis(2-ethylhexyl)phtha...	6.229	149	36273	841.310	ng/ml	97
37) Benzo[b]fluoranthene	7.009	252	80852	1077.714	ng/ml	99
38) Benzo[k]fluoranthene	7.031	252	73945	1038.004	ng/ml	100
39) Benzo[a]pyrene	7.305	252	70119	1061.839	ng/ml	100
40) Indeno[1,2,3-cd]pyrene	8.538	276	76383	1064.286	ng/ml	95
41) Dibenzo[a,h]anthracene	8.574	278	70388M6	1054.126	ng/ml	
42) Benzo[g,h,i]perylene	8.861	276	76727	1051.026	ng/ml	94

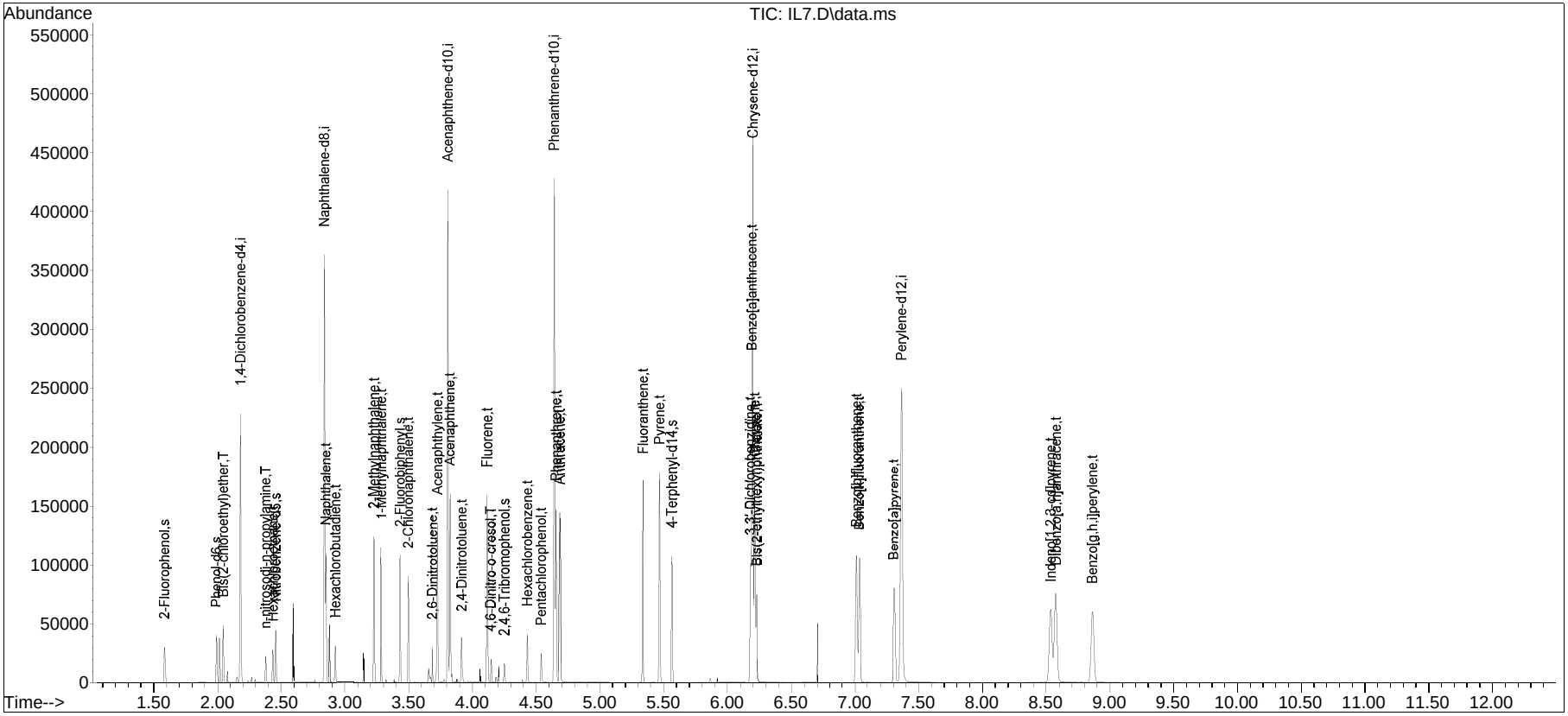
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\231207nLVIical\
Data File : IL7.D
Acq On : 07 Dec 2023 02:03 pm
Operator : sv119:dv
Sample : IL7,32,,1 Lot#10229
Misc : WG1861379,,ical
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Dec 08 13:35:39 2023
Quant Method : I:\8270SIM\sv119\231207nLVIical\SIM-LVI_231207n_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Dec 08 13:35:44 2023
Response via : Initial Calibration

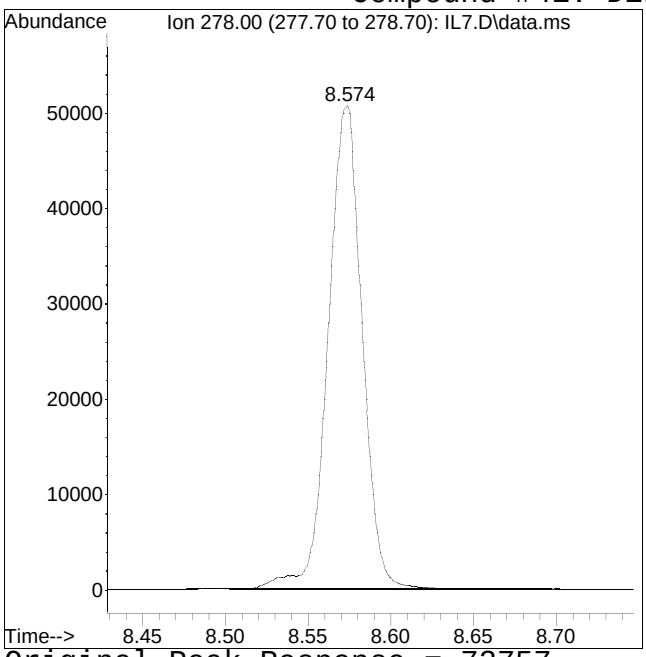
Sub List : Default - All compounds listedIical\IL7.D•



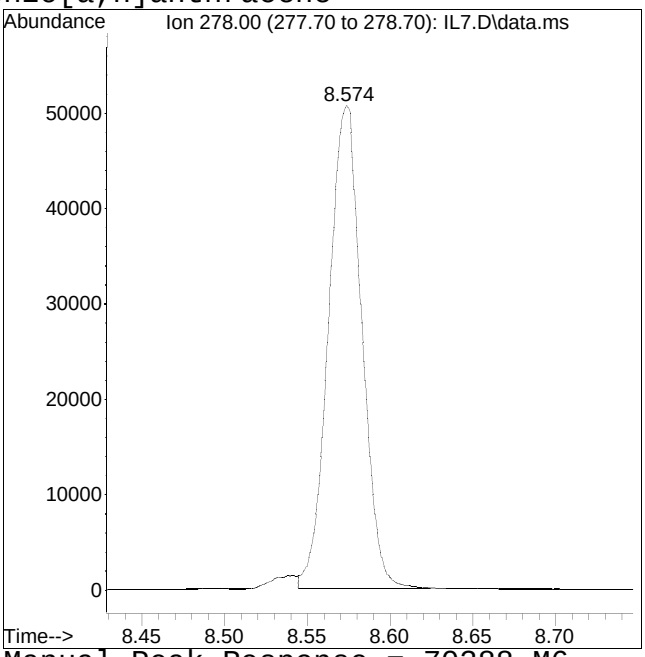
Manual Integration Report

Data Path : I:\8270SIM\sv119\231207nLVQMethod : SIM-LVI_231207n_sv119.M
Data File : IL7.D Operator : sv119:dv
Date Inj'd : 12/7/2023 2:03 pm Instrument : SV119
Sample : IL7,32,,1 Lot#10229 Quant Date : 12/8/2023 1:35 pm

Compound #41: Dibenzo[a,h]anthracene



Original Peak Response = 72757



Manual Peak Response = 70388 M6

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\231207nLVIical\
Data File : IL6.D
Acq On : 07 Dec 2023 02:20 pm
Operator : sv119:dv
Sample : IL6,32,,0.25 Lot#10230
Misc : WG1861379,,ical
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 08 13:35:27 2023
Quant Method : I:\8270SIM\sv119\231207nLVIical\SIM-LVI_231207n_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Dec 08 13:35:32 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv119\231207nLVIical\IL7.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.183	152	44082	4000.000	ng/ml	0.00
Standard Area 1 = 44131			Recovery = 99.89%			
8) Naphthalene-d8	2.839	136	149961	4000.000	ng/ml	0.00
Standard Area 1 = 154719			Recovery = 96.92%			
17) Acenaphthene-d10	3.807	164	86556	4000.000	ng/ml	0.00
Standard Area 1 = 88793			Recovery = 97.48%			
22) Phenanthrene-d10	4.643	188	191611	4000.000	ng/ml	0.00
Standard Area 1 = 199383			Recovery = 96.10%			
31) Chrysene-d12	6.197	240	198571	4000.000	ng/ml	0.00
Standard Area 1 = 198085			Recovery = 100.25%			
36) Perylene-d12	7.367	264	212398	4000.000	ng/ml	0.00
Standard Area 1 = 214743			Recovery = 98.91%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.588	112	3179	263.661	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 5.27%#			
3) Phenol-d6	1.991	99	3632	251.300	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 5.03%#			
7) Nitrobenzene-d5	2.460	82	2758	251.572	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 10.06%#			
13) 2-Fluorobiphenyl	3.433	172	8986	268.302	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 10.73%#			
21) 2,4,6-Tribromophenol	4.251	330	1156	242.248	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 4.84%#			
30) 4-Terphenyl-d14	5.566	244	12569	267.581	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 10.70%#			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	2.048	93	3117	253.595	ng/ml	95
5) n-nitrosodi-n-propylamine	2.383	70	1743	237.104	ng/ml#	89
6) Hexachloroethane	2.441	117	1323	242.608	ng/ml	90
9) Naphthalene	2.850	128	9306	259.888	ng/ml	100
10) Hexachlorobutadiene	2.925	225	2010	260.651	ng/ml	99
11) 2-Methylnaphthalene	3.229	142	6950	262.504	ng/ml	100
12) 1-Methylnaphthalene	3.282	142	6433	263.487	ng/ml	99
14) 2-Chloronaphthalene	3.496	162	7386	261.895	ng/ml	97
15) 2,6-Dinitrotoluene	3.688	165	1533	240.726	ng/ml#	80
16) Acenaphthylene	3.725	152	10901	260.105	ng/ml	100
18) Acenaphthene	3.825	153	6960	260.106	ng/ml	100

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\231207nLVIical\
Data File : IL6.D
Acq On : 07 Dec 2023 02:20 pm
Operator : sv119:dv
Sample : IL6,32,,0.25 Lot#10230
Misc : WG1861379,,ical
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 08 13:35:27 2023
Quant Method : I:\8270SIM\sv119\231207nLVIical\SIM-LVI_231207n_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Dec 08 13:35:32 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv119\231207nLVIical\IL7.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
19) 2,4-Dinitrotoluene	3.913	165	1896	237.655	ng/ml#	78
20) Fluorene	4.114	166	8295	259.345	ng/ml	99
23) 4,6-Dinitro-o-cresol	4.142	198	1088	233.562	ng/ml	89
24) Hexachlorobenzene	4.430	284	3216	259.623	ng/ml	99
25) Pentachlorophenol	4.540	266	1613	215.040	ng/ml	100
26) Phenanthrene	4.657	178	12748	261.914	ng/ml	99
27) Anthracene	4.684	178	12492	258.812	ng/ml	100
28) Fluoranthene	5.337	202	17035	265.468	ng/ml	96
29) Pyrene	5.468	202	17494	265.450	ng/ml	99
32) Benzo[a]anthracene	6.191	228	17754	258.716	ng/ml	99
33) 3,3'-Dichlorobenzidine	6.180	252	6990	233.001	ng/ml	99
34) Chrysene	6.212	228	16577	252.945	ng/ml	100
35) Bis(2-ethylhexyl)phtha...	6.227	149	7628	202.170	ng/ml	98
37) Benzo[b]fluoranthene	7.007	252	19335	260.571	ng/ml	98
38) Benzo[k]fluoranthene	7.032	252	18759	266.237	ng/ml	98
39) Benzo[a]pyrene	7.306	252	17009	260.418	ng/ml	100
40) Indeno[1,2,3-cd]pyrene	8.534	276	18848	265.519	ng/ml	94
41) Dibenzo[a,h]anthracene	8.570	278	17933	271.529	ng/ml	95
42) Benzo[g,h,i]perylene	8.861	276	19460	269.511	ng/ml	93

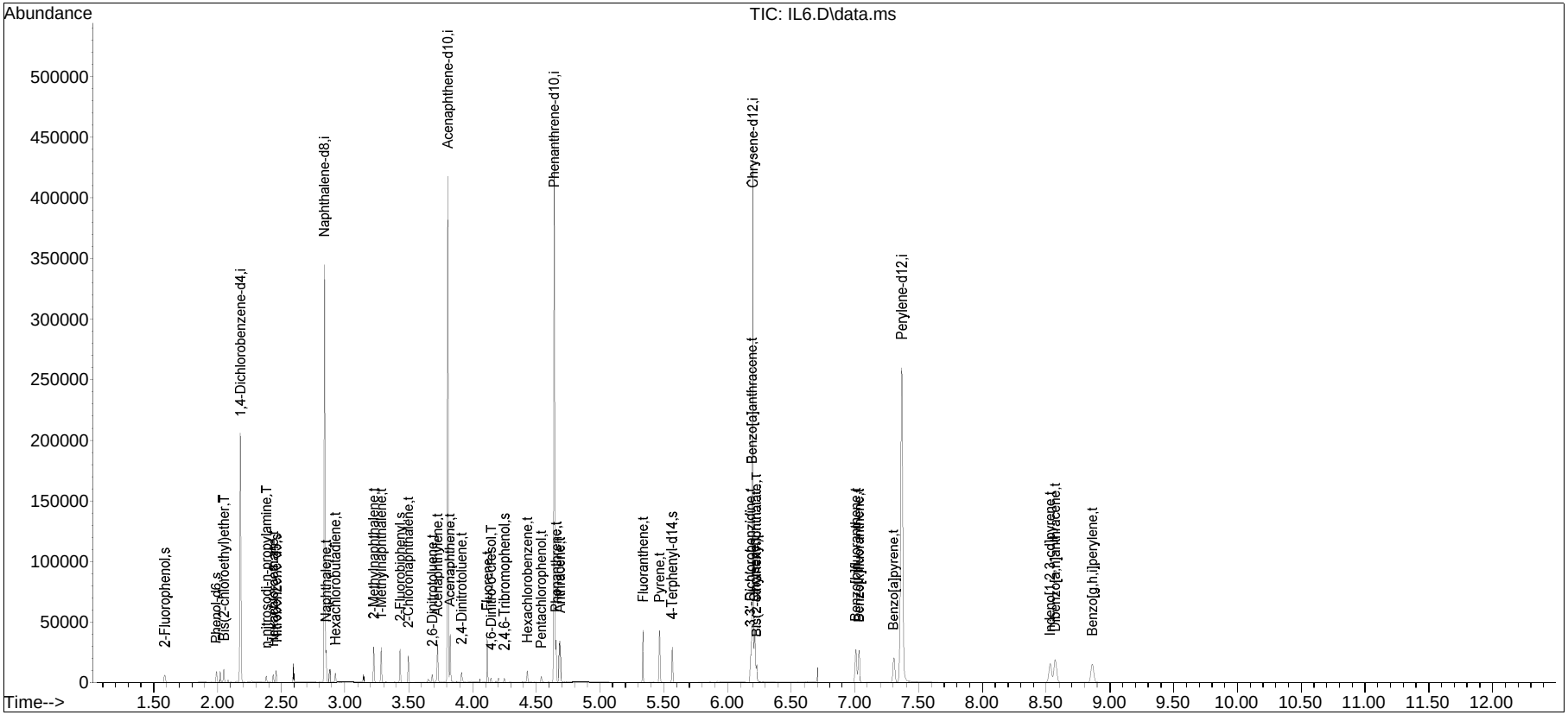
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\231207nLVIical\
Data File : IL6.D
Acq On : 07 Dec 2023 02:20 pm
Operator : sv119:dv
Sample : IL6,32,,0.25 Lot#10230
Misc : WG1861379,,ical
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 08 13:35:27 2023
Quant Method : I:\8270SIM\sv119\231207nLVIical\SIM-LVI_231207n_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Dec 08 13:35:32 2023
Response via : Initial Calibration

Sub List : Default - All compounds listedIical\IL7.D•



Manual Integration Report

Data Path	: I:\8270SIM\sv119\231207nLVQ	Method	: SIM-LVI_231207n_sv119.M
Data File	: IL6.D	Operator	: sv119:dv
Date Inj'd	: 12/7/2023 2:20 pm	Instrument	: SV119
Sample	: IL6,32,,0.25 Lot#10230	Quant Date	: 12/8/2023 1:35 pm

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\231207nLVIical\
Data File : IL5.D
Acq On : 07 Dec 2023 02:36 pm
Operator : sv119:dv
Sample : IL5,32,,0.1 Lot#10231
Misc : WG1861379,,ical
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 08 13:34:32 2023
Quant Method : I:\8270SIM\sv119\231207nLVIical\SIM-LVI_231207n_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Dec 08 13:34:38 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv119\231207nLVIical\IL7.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.183	152	47445	4000.000	ng/ml	0.00
Standard Area 1 = 44131			Recovery = 107.51%			
8) Naphthalene-d8	2.840	136	160378	4000.000	ng/ml	0.00
Standard Area 1 = 154719			Recovery = 103.66%			
17) Acenaphthene-d10	3.808	164	93545	4000.000	ng/ml	0.00
Standard Area 1 = 88793			Recovery = 105.35%			
22) Phenanthrene-d10	4.643	188	206792	4000.000	ng/ml	0.00
Standard Area 1 = 199383			Recovery = 103.72%			
31) Chrysene-d12	6.193	240	213684	4000.000	ng/ml	0.00
Standard Area 1 = 198085			Recovery = 107.87%			
36) Perylene-d12	7.360	264	220747	4000.000	ng/ml	0.00
Standard Area 1 = 214743			Recovery = 102.80%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.592	112	1335	102.874	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 2.06%#			
3) Phenol-d6	1.994	99	1536	98.744	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 1.97%#			
7) Nitrobenzene-d5	2.462	82	1168	98.988	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 3.96%#			
13) 2-Fluorobiphenyl	3.433	172	3971	110.864	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 4.43%#			
21) 2,4,6-Tribromophenol	4.251	330	478	92.684	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 1.85%#			
30) 4-Terphenyl-d14	5.564	244	5567	109.815	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 4.39%#			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	2.051	93	1356	102.502	ng/ml	95
5) n-nitrosodi-n-propylamine	2.385	70	745	94.161	ng/ml#	90
6) Hexachloroethane	2.442	117	572	97.457	ng/ml	92
9) Naphthalene	2.852	128	3987	104.113	ng/ml	99
10) Hexachlorobutadiene	2.925	225	867	105.127	ng/ml	98
11) 2-Methylnaphthalene	3.229	142	3004	106.092	ng/ml	100
12) 1-Methylnaphthalene	3.284	142	2803	107.350	ng/ml	99
14) 2-Chloronaphthalene	3.496	162	3232	107.157	ng/ml	98
15) 2,6-Dinitrotoluene	3.688	165	664	97.495	ng/ml#	85
16) Acenaphthylene	3.727	152	4667	104.125	ng/ml	100
18) Acenaphthene	3.825	153	2997	103.635	ng/ml	100

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\231207nLVIical\
Data File : IL5.D
Acq On : 07 Dec 2023 02:36 pm
Operator : sv119:dv
Sample : IL5,32,,0.1 Lot#10231
Misc : WG1861379,,ical
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 08 13:34:32 2023
Quant Method : I:\8270SIM\sv119\231207nLVIical\SIM-LVI_231207n_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Dec 08 13:34:38 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv119\231207nLVIical\IL7.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
19) 2,4-Dinitrotoluene	3.915	165	773	89.653	ng/ml#	79
20) Fluorene	4.114	166	3580	103.567	ng/ml	100
23) 4,6-Dinitro-o-cresol	4.142	198	394	108.626	ng/ml	89
24) Hexachlorobenzene	4.430	284	1400	104.723	ng/ml	99
25) Pentachlorophenol	4.540	266	682	91.300	ng/ml	95
26) Phenanthrene	4.655	178	5518	105.047	ng/ml	96
27) Anthracene	4.685	178	5405	103.761	ng/ml	100
28) Fluoranthene	5.337	202	7343	106.030	ng/ml	96
29) Pyrene	5.466	202	7578	106.546	ng/ml	99
32) Benzo[a]anthracene	6.184	228	7943	101.296	ng/ml	97
33) 3,3'-Dichlorobenzidine	6.173	252	2907	90.047	ng/ml	99
34) Chrysene	6.208	228	7172	101.696	ng/ml	100
35) Bis(2-ethylhexyl)phtha...	6.220	149	3238	99.428	ng/ml	98
37) Benzo[b]fluoranthene	7.003	252	8069	104.630	ng/ml	98
38) Benzo[k]fluoranthene	7.025	252	7961	108.713	ng/ml	98
39) Benzo[a]pyrene	7.299	252	7107	104.697	ng/ml	100
40) Indeno[1,2,3-cd]pyrene	8.530	276	7775	105.387	ng/ml	94
41) Dibenzo[a,h]anthracene	8.567	278	7523	109.600	ng/ml	94
42) Benzo[g,h,i]perylene	8.855	276	8003	106.645	ng/ml	93

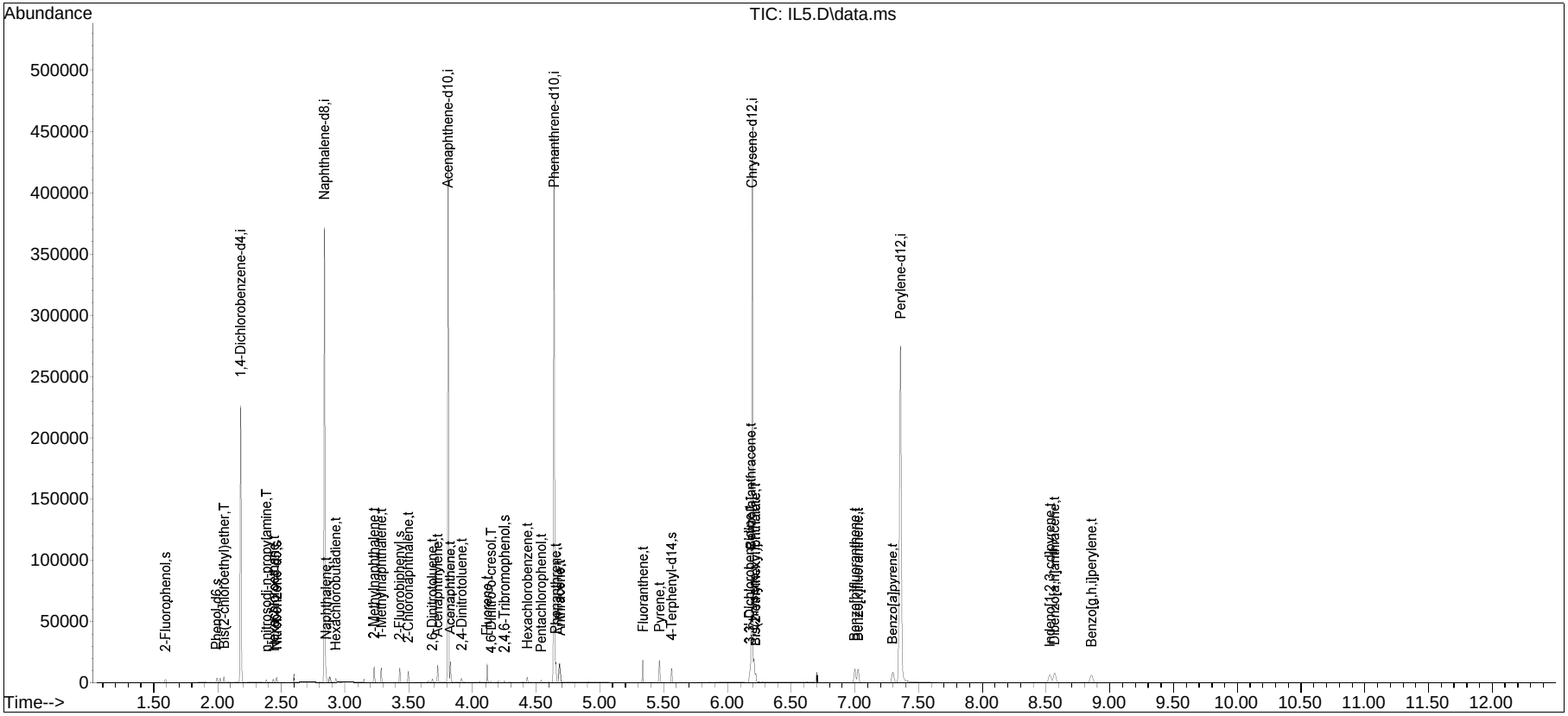
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\231207nLVIical\
Data File : IL5.D
Acq On : 07 Dec 2023 02:36 pm
Operator : sv119:dv
Sample : IL5,32,,0.1 Lot#10231
Misc : WG1861379,,ical
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 08 13:34:32 2023
Quant Method : I:\8270SIM\sv119\231207nLVIical\SIM-LVI_231207n_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Dec 08 13:34:38 2023
Response via : Initial Calibration

Sub List : Default - All compounds listedIical\IL7.D•



Manual Integration Report

Data Path	: I:\8270SIM\sv119\231207nLVQ	Method	: SIM-LVI_231207n_sv119.M
Data File	: IL5.D	Operator	: sv119:dv
Date Inj'd	: 12/7/2023 2:36 pm	Instrument	: SV119
Sample	: IL5,32,,0.1 Lot#10231	Quant Date	: 12/8/2023 1:34 pm

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\231207nLVIical\
Data File : IL4.D
Acq On : 07 Dec 2023 02:53 pm
Operator : sv119:dv
Sample : IL4,32,,0.05 Lot#10232
Misc : WG1861379,,ical
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 08 13:34:06 2023
Quant Method : I:\8270SIM\sv119\231207nLVIical\SIM-LVI_231207n_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Dec 08 13:34:10 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv119\231207nLVIical\IL7.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.183	152	45995	4000.000	ng/ml	0.00
Standard Area 1 = 44131			Recovery = 104.22%			
8) Naphthalene-d8	2.840	136	154289	4000.000	ng/ml	0.00
Standard Area 1 = 154719			Recovery = 99.72%			
17) Acenaphthene-d10	3.807	164	90453	4000.000	ng/ml	0.00
Standard Area 1 = 88793			Recovery = 101.87%			
22) Phenanthrene-d10	4.643	188	199932	4000.000	ng/ml	0.00
Standard Area 1 = 199383			Recovery = 100.28%			
31) Chrysene-d12	6.192	240	216027	4000.000	ng/ml	0.00
Standard Area 1 = 198085			Recovery = 109.06%			
36) Perylene-d12	7.358	264	222689	4000.000	ng/ml	0.00
Standard Area 1 = 214743			Recovery = 103.70%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.590	112	637	50.634	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 1.01%#			
3) Phenol-d6	1.993	99	731	48.475	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 0.97%#			
7) Nitrobenzene-d5	2.462	82	547	47.820	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 1.91%#			
13) 2-Fluorobiphenyl	3.433	172	1886	54.732	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 2.19%#			
21) 2,4,6-Tribromophenol	4.249	330	234	46.924	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 0.94%#			
30) 4-Terphenyl-d14	5.562	244	2716	55.414	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 2.22%#			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	2.051	93	655	51.073	ng/ml	94
5) n-nitrosodi-n-propylamine	2.385	70	349	45.501	ng/ml#	91
6) Hexachloroethane	2.441	117	278	48.859	ng/ml	90
9) Naphthalene	2.852	128	1914	51.953	ng/ml	99
10) Hexachlorobutadiene	2.925	225	420	52.937	ng/ml	96
11) 2-Methylnaphthalene	3.229	142	1443	52.974	ng/ml	98
12) 1-Methylnaphthalene	3.282	142	1336	53.186	ng/ml	100
14) 2-Chloronaphthalene	3.496	162	1555	53.591	ng/ml	96
15) 2,6-Dinitrotoluene	3.688	165	312M6	47.619	ng/ml	
16) Acenaphthylene	3.727	152	2223	51.554	ng/ml	99
18) Acenaphthene	3.825	153	1443	51.604	ng/ml	99

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\231207nLVIical\
Data File : IL4.D
Acq On : 07 Dec 2023 02:53 pm
Operator : sv119:dv
Sample : IL4,32,,0.05 Lot#10232
Misc : WG1861379,,ical
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 08 13:34:06 2023
Quant Method : I:\8270SIM\sv119\231207nLVIical\SIM-LVI_231207n_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Dec 08 13:34:10 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv119\231207nLVIical\IL7.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
19) 2,4-Dinitrotoluene	3.915	165	369	44.260	ng/ml#	79
20) Fluorene	4.114	166	1712	51.220	ng/ml	99
23) 4,6-Dinitro-o-cresol	4.144	198	141	68.886	ng/ml	98
24) Hexachlorobenzene	4.430	284	663	51.295	ng/ml	96
25) Pentachlorophenol	4.538	266	320	50.277	ng/ml	97
26) Phenanthrene	4.655	178	2614M6	51.471	ng/ml	
27) Anthracene	4.684	178	2575	51.129	ng/ml	100
28) Fluoranthene	5.335	202	3564	53.229	ng/ml	96
29) Pyrene	5.466	202	3726	54.184	ng/ml	99
32) Benzo[a]anthracene	6.184	228	4223	48.187	ng/ml	95
33) 3,3'-Dichlorobenzidine	6.173	252	1404	43.019	ng/ml	100
34) Chrysene	6.207	228	3596	50.437	ng/ml	100
35) Bis(2-ethylhexyl)phtha...	6.222	149	1581	64.823	ng/ml	99
37) Benzo[b]fluoranthene	7.001	252	3954	50.824	ng/ml	100
38) Benzo[k]fluoranthene	7.025	252	3980	53.876	ng/ml	100
39) Benzo[a]pyrene	7.299	252	3513	51.300	ng/ml	100
40) Indeno[1,2,3-cd]pyrene	8.529	276	3799	51.045	ng/ml	95
41) Dibenzo[a,h]anthracene	8.567	278	3727	53.824	ng/ml	94
42) Benzo[g,h,i]perylene	8.855	276	3986	52.653	ng/ml	94

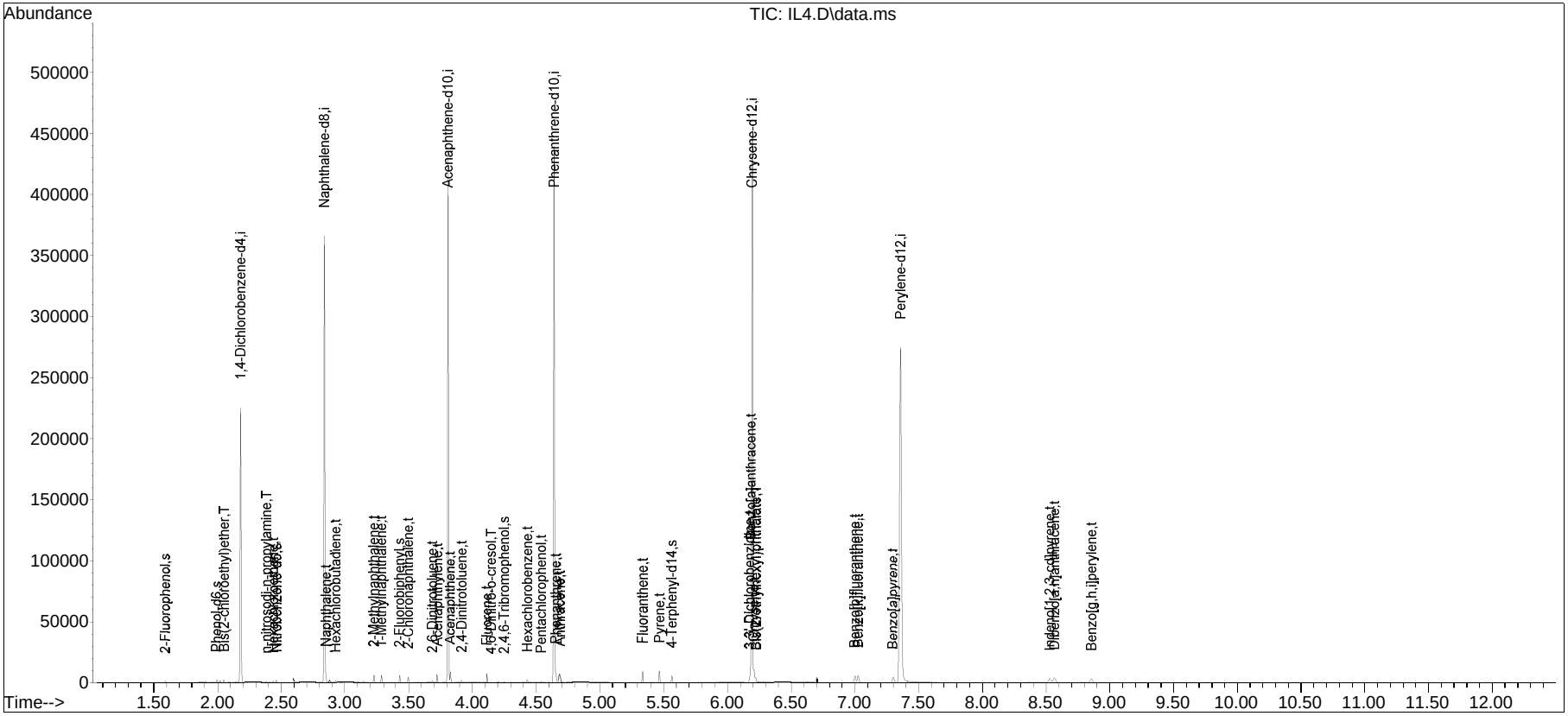
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\231207nLVIical\
Data File : IL4.D
Acq On : 07 Dec 2023 02:53 pm
Operator : sv119:dv
Sample : IL4,32,,0.05 Lot#10232
Misc : WG1861379,,ical
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 08 13:34:06 2023
Quant Method : I:\8270SIM\sv119\231207nLVIical\SIM-LVI_231207n_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Dec 08 13:34:10 2023
Response via : Initial Calibration

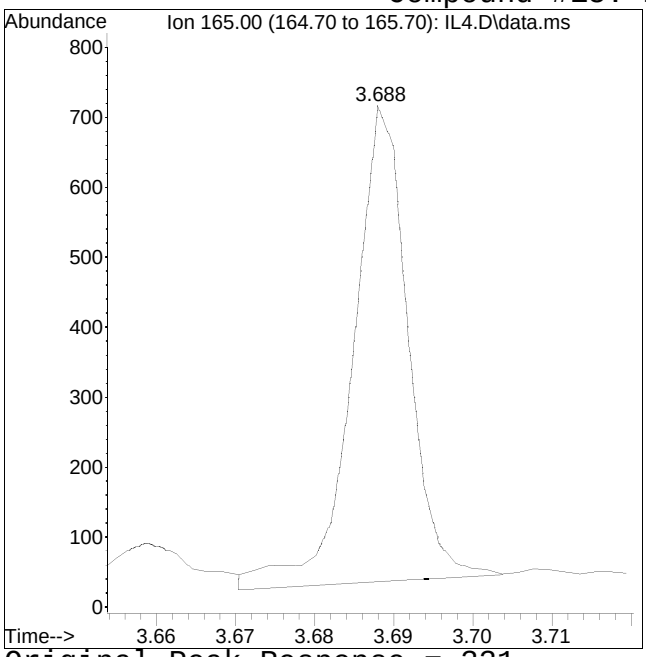
Sub List : Default - All compounds listedIical\IL7.D•



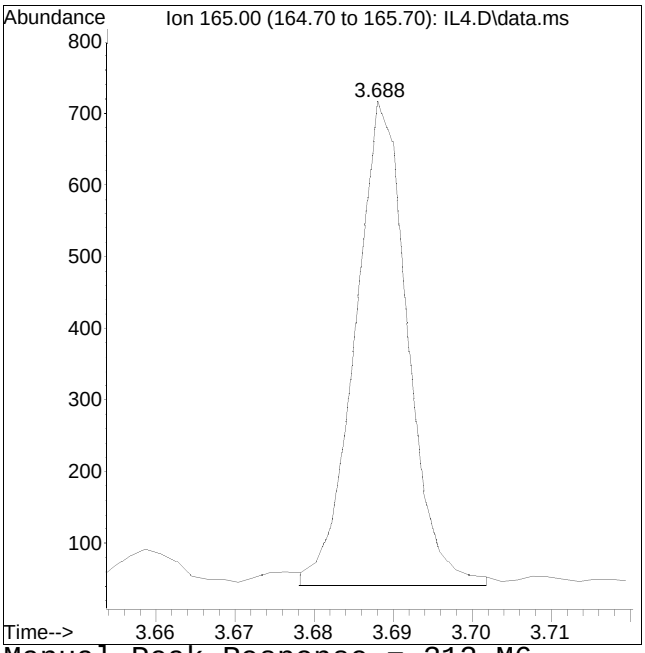
Manual Integration Report

Data Path : I:\8270SIM\sv119\231207nLVQMethod : SIM-LVI_231207n_sv119.M
Data File : IL4.D Operator : sv119:dv
Date Inj'd : 12/7/2023 2:53 pm Instrument : SV119
Sample : IL4,32,,0.05 Lot#10232 Quant Date : 12/8/2023 1:34 pm

Compound #15: 2,6-Dinitrotoluene



Original Peak Response = 331



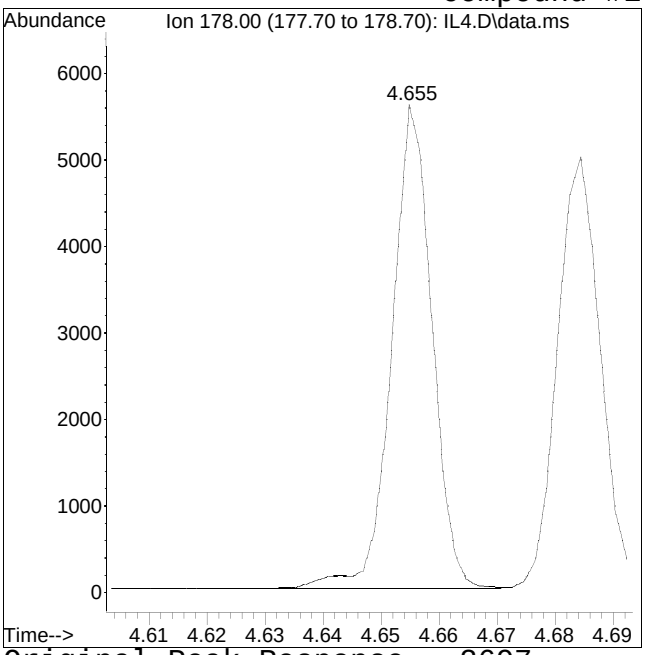
Manual Peak Response = 312 M6

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

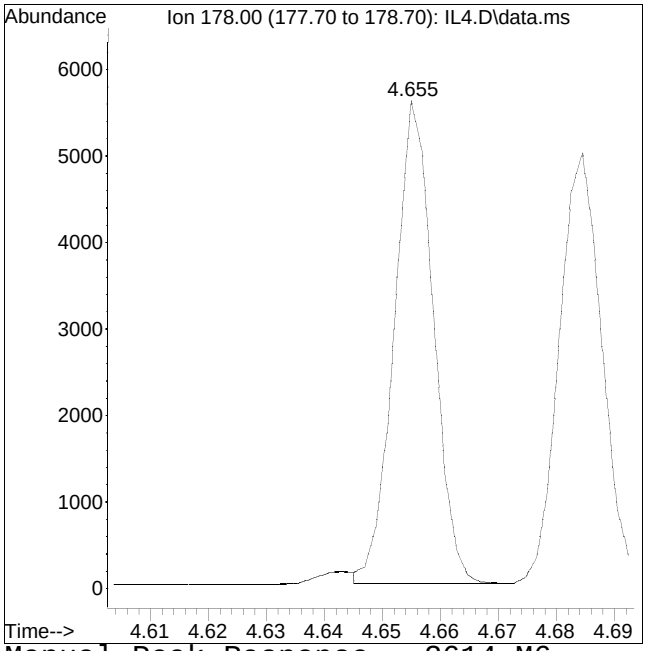
Manual Integration Report

Data Path : I:\8270SIM\sv119\231207nLVQMethod : SIM-LVI_231207n_sv119.M
Data File : IL4.D Operator : sv119:dv
Date Inj'd : 12/7/2023 2:53 pm Instrument : SV119
Sample : IL4,32,,0.05 Lot#10232 Quant Date : 12/8/2023 1:34 pm

Compound #26: Phenanthrene



Original Peak Response = 2697



Manual Peak Response = 2614 M6

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\231207nLVIical\
Data File : IL3.D
Acq On : 07 Dec 2023 03:09 pm
Operator : sv119:dv
Sample : IL3,32,,0.025 Lot#10233
Misc : WG1861379,,ical
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Dec 08 13:33:15 2023
Quant Method : I:\8270SIM\sv119\231207nLVIical\SIM-LVI_231207n_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Dec 08 13:33:19 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv119\231207nLVIical\IL7.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.183	152	48524	4000.000	ng/ml	0.00
Standard Area 1 = 44131			Recovery = 109.95%			
8) Naphthalene-d8	2.840	136	162915	4000.000	ng/ml	0.00
Standard Area 1 = 154719			Recovery = 105.30%			
17) Acenaphthene-d10	3.808	164	95545	4000.000	ng/ml	0.00
Standard Area 1 = 88793			Recovery = 107.60%			
22) Phenanthrene-d10	4.643	188	212473	4000.000	ng/ml	0.00
Standard Area 1 = 199383			Recovery = 106.57%			
31) Chrysene-d12	6.193	240	225835	4000.000	ng/ml	0.00
Standard Area 1 = 198085			Recovery = 114.01%			
36) Perylene-d12	7.360	264	232095	4000.000	ng/ml	0.00
Standard Area 1 = 214743			Recovery = 108.08%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.592	112	335	25.241	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 0.50%#			
3) Phenol-d6	1.996	99	384	24.137	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 0.48%#			
7) Nitrobenzene-d5	2.463	82	302	25.025	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 1.00%#			
13) 2-Fluorobiphenyl	3.433	172	1002	27.539	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 1.10%#			
21) 2,4,6-Tribromophenol	4.251	330	121	22.971	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 0.46%#			
30) 4-Terphenyl-d14	5.562	244	1452	27.876	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 1.12%#			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	2.051	93	352	26.017	ng/ml	94
5) n-nitrosodi-n-propylamine	2.386	70	189	23.357	ng/ml#	86
6) Hexachloroethane	2.442	117	153	25.488	ng/ml	97
9) Naphthalene	2.852	128	1030	26.478	ng/ml	98
10) Hexachlorobutadiene	2.927	225	222	26.499	ng/ml	100
11) 2-Methylnaphthalene	3.229	142	757	26.319	ng/ml	99
12) 1-Methylnaphthalene	3.282	142	716	26.995	ng/ml	99
14) 2-Chloronaphthalene	3.496	162	831	27.123	ng/ml	98
15) 2,6-Dinitrotoluene	3.688	165	172	24.861	ng/ml#	75
16) Acenaphthylene	3.727	152	1186	26.049	ng/ml	100
18) Acenaphthene	3.825	153	760	25.730	ng/ml	100

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\231207nLVIical\
Data File : IL3.D
Acq On : 07 Dec 2023 03:09 pm
Operator : sv119:dv
Sample : IL3,32,,0.025 Lot#10233
Misc : WG1861379,,ical
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Dec 08 13:33:15 2023
Quant Method : I:\8270SIM\sv119\231207nLVIical\SIM-LVI_231207n_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Dec 08 13:33:19 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv119\231207nLVIical\IL7.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
19) 2,4-Dinitrotoluene	3.915	165	188	21.348	ng/ml#	79
20) Fluorene	4.114	166	903	25.576	ng/ml	100
23) 4,6-Dinitro-o-cresol	4.145	198	55	54.105	ng/ml	97
24) Hexachlorobenzene	4.430	284	357	25.990	ng/ml	98
25) Pentachlorophenol	4.540	266	161	29.909	ng/ml	95
26) Phenanthrene	4.655	178	1405M6	26.032	ng/ml	
27) Anthracene	4.685	178	1387	25.915	ng/ml	100
28) Fluoranthene	5.337	202	1897	26.660	ng/ml	95
29) Pyrene	5.466	202	2001	27.382	ng/ml	99
32) Benzo[a]anthracene	6.186	228	2608	24.078	ng/ml	92
33) 3,3'-Dichlorobenzidine	6.173	252	733	21.484	ng/ml	98
34) Chrysene	6.208	228	1876	25.170	ng/ml	99
35) Bis(2-ethylhexyl)phtha...	6.223	149	843	48.985	ng/ml	96
37) Benzo[b]fluoranthene	7.003	252	2138	26.368	ng/ml	100
38) Benzo[k]fluoranthene	7.025	252	2060	26.755	ng/ml	99
39) Benzo[a]pyrene	7.301	252	1856	26.005	ng/ml	100
40) Indeno[1,2,3-cd]pyrene	8.527	276	2047	26.390	ng/ml	93
41) Dibenzo[a,h]anthracene	8.567	278	1931	26.757	ng/ml	95
42) Benzo[g,h,i]perylene	8.854	276	2115	26.806	ng/ml	93

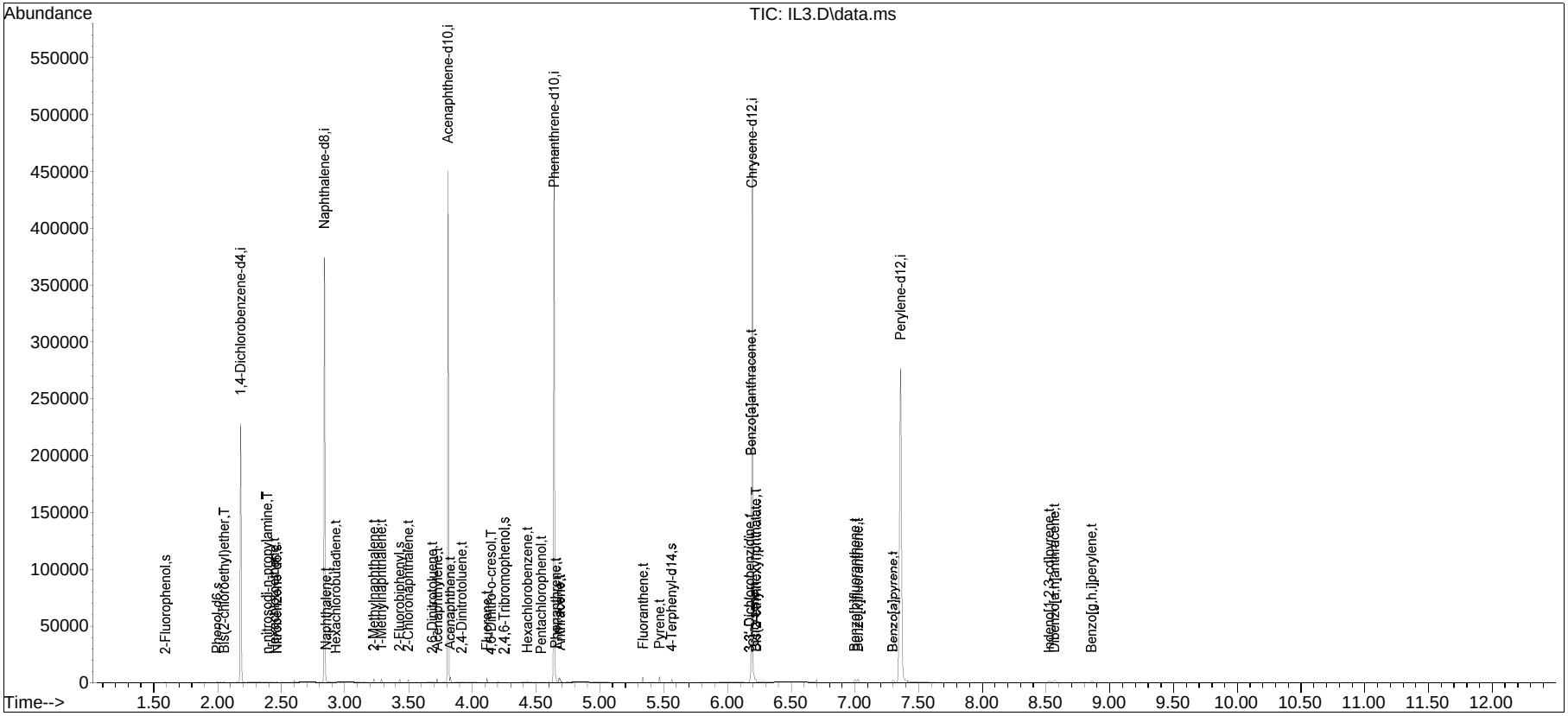
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\231207nLVIical\
Data File : IL3.D
Acq On : 07 Dec 2023 03:09 pm
Operator : sv119:dv
Sample : IL3,32,,0.025 Lot#10233
Misc : WG1861379,,ical
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Dec 08 13:33:15 2023
Quant Method : I:\8270SIM\sv119\231207nLVIical\SIM-LVI_231207n_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Dec 08 13:33:19 2023
Response via : Initial Calibration

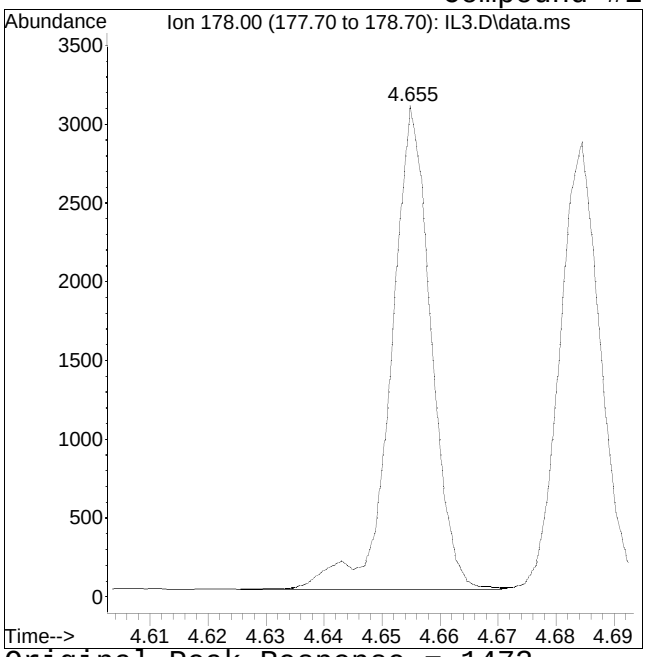
Sub List : Default - All compounds listedIical\IL7.D•



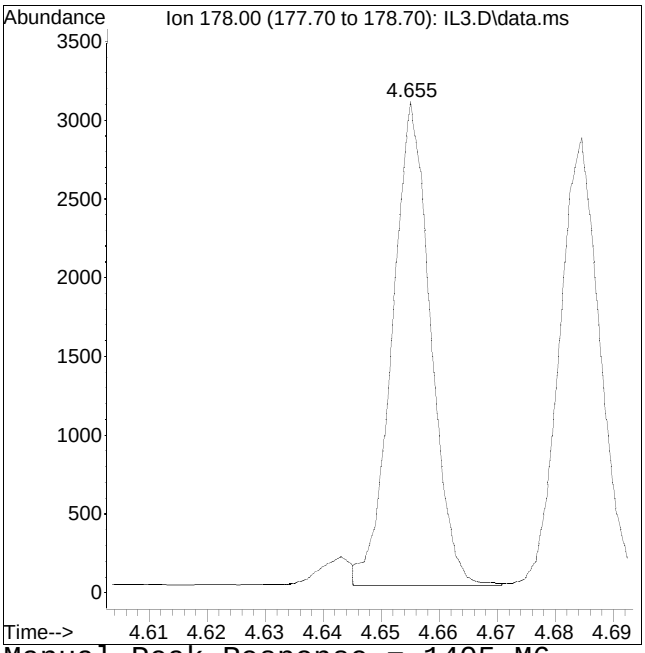
Manual Integration Report

Data Path : I:\8270SIM\sv119\231207nLVQMethod : SIM-LVI_231207n_sv119.M
Data File : IL3.D Operator : sv119:dv
Date Inj'd : 12/7/2023 3:09 pm Instrument : SV119
Sample : IL3,32,,0.025 Lot#10233 Quant Date : 12/8/2023 1:33 pm

Compound #26: Phenanthrene



Original Peak Response = 1473



Manual Peak Response = 1405 M6

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\231207nLVIical\
Data File : IL2.D
Acq On : 07 Dec 2023 03:26 pm
Operator : sv119:dv
Sample : IL2,32,,0.01 Lot#10234
Misc : WG1861379,,ical
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Dec 08 13:33:00 2023
Quant Method : I:\8270SIM\sv119\231207nLVIical\SIM-LVI_231207n_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Dec 08 13:33:04 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv119\231207nLVIical\IL7.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.183	152	46716	4000.000	ng/ml	0.00
Standard Area 1 = 44131			Recovery = 105.86%			
8) Naphthalene-d8	2.839	136	156475	4000.000	ng/ml	0.00
Standard Area 1 = 154719			Recovery = 101.13%			
17) Acenaphthene-d10	3.808	164	91742	4000.000	ng/ml	0.00
Standard Area 1 = 88793			Recovery = 103.32%			
22) Phenanthrene-d10	4.641	188	202200	4000.000	ng/ml	0.00
Standard Area 1 = 199383			Recovery = 101.41%			
31) Chrysene-d12	6.195	240	221653	4000.000	ng/ml	0.00
Standard Area 1 = 198085			Recovery = 111.90%			
36) Perylene-d12	7.360	264	229421	4000.000	ng/ml	0.00
Standard Area 1 = 214743			Recovery = 106.84%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.591	112	132	10.331	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 0.21%#			
3) Phenol-d6	1.994	99	153	9.989	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 0.20%#			
7) Nitrobenzene-d5	2.462	82	119	10.243	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 0.41%#			
13) 2-Fluorobiphenyl	3.431	172	380	10.874	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 0.43%#			
21) 2,4,6-Tribromophenol	4.249	330	49M6	9.688	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 0.19%#			
30) 4-Terphenyl-d14	5.564	244	568	11.459	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 0.46%#			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	2.048	93	144	11.055	ng/ml	89
5) n-nitrosodi-n-propylamine	2.383	70	74	9.499	ng/ml	97
6) Hexachloroethane	2.441	117	62	10.728	ng/ml	95
9) Naphthalene	2.850	128	396	10.599	ng/ml#	95
10) Hexachlorobutadiene	2.924	225	82	10.191	ng/ml	93
11) 2-Methylnaphthalene	3.227	142	292	10.570	ng/ml	100
12) 1-Methylnaphthalene	3.282	142	271	10.638	ng/ml	97
14) 2-Chloronaphthalene	3.494	162	318	10.806	ng/ml	96
15) 2,6-Dinitrotoluene	3.686	165	64M6	9.631	ng/ml	
16) Acenaphthylene	3.725	152	449	10.267	ng/ml	98

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\231207nLVIical\
Data File : IL2.D
Acq On : 07 Dec 2023 03:26 pm
Operator : sv119:dv
Sample : IL2,32,,0.01 Lot#10234
Misc : WG1861379,,ical
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Dec 08 13:33:00 2023
Quant Method : I:\8270SIM\sv119\231207nLVIical\SIM-LVI_231207n_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Dec 08 13:33:04 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv119\231207nLVIical\IL7.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
18) Acenaphthene	3.825	153	289	10.190	ng/ml	98
19) 2,4-Dinitrotoluene	3.913	165	74M6	8.751	ng/ml	
20) Fluorene	4.113	166	351	10.354	ng/ml	99
23) 4,6-Dinitro-o-cresol	0.000		0	N.D.	d	
24) Hexachlorobenzene	4.428	284	135	10.328	ng/ml	97
25) Pentachlorophenol	0.000		0	N.D.	d	
26) Phenanthrene	4.655	178	533	10.377	ng/ml	99
27) Anthracene	4.685	178	536	10.523	ng/ml	100
28) Fluoranthene	5.335	202	739	10.913	ng/ml	97
29) Pyrene	5.466	202	775	11.144	ng/ml	99
32) Benzo[a]anthracene	6.188	228	1402	8.338	ng/ml#	86
33) 3,3'-Dichlorobenzidine	6.178	252	290	8.660	ng/ml	99
34) Chrysene	6.212	228	730	9.979	ng/ml	95
35) Bis(2-ethylhexyl)phtha...	6.225	149	378	40.030	ng/ml	97
37) Benzo[b]fluoranthene	7.005	252	844	10.530	ng/ml	99
38) Benzo[k]fluoranthene	7.031	252	805	10.577	ng/ml	97
39) Benzo[a]pyrene	7.303	252	735	10.418	ng/ml	100
40) Indeno[1,2,3-cd]pyrene	8.530	276	790	10.303	ng/ml	93
41) Dibenzo[a,h]anthracene	8.568	278	767	10.752	ng/ml#	92
42) Benzo[g,h,i]perylene	8.859	276	839	10.758	ng/ml	93

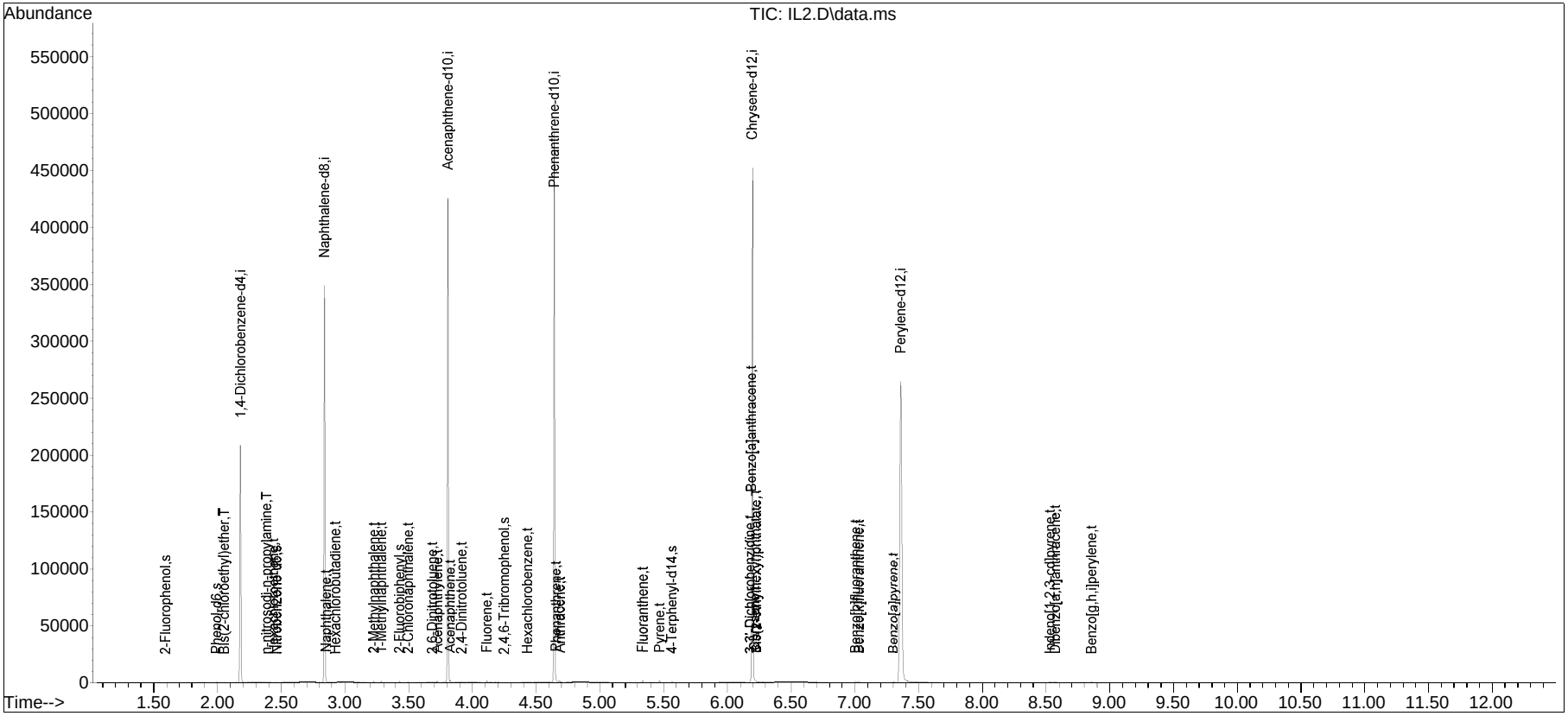
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\231207nLVIical\
Data File : IL2.D
Acq On : 07 Dec 2023 03:26 pm
Operator : sv119:dv
Sample : IL2,32,,0.01 Lot#10234
Misc : WG1861379,,ical
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Dec 08 13:33:00 2023
Quant Method : I:\8270SIM\sv119\231207nLVIical\SIM-LVI_231207n_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Dec 08 13:33:04 2023
Response via : Initial Calibration

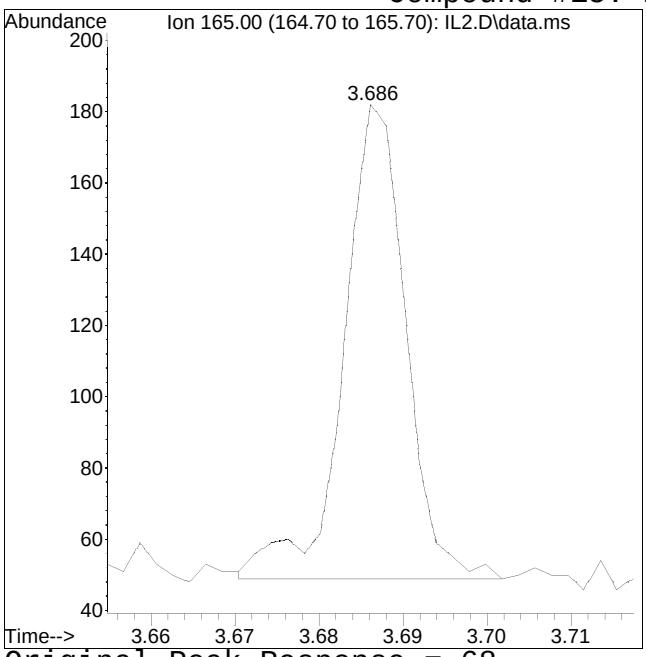
Sub List : Default - All compounds listedIical\IL7.D•



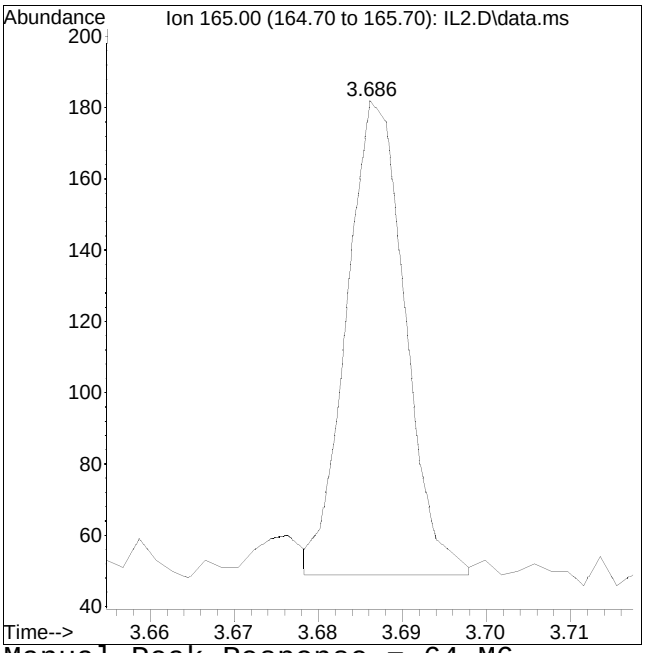
Manual Integration Report

Data Path : I:\8270SIM\sv119\231207nLVQMethod : SIM-LVI_231207n_sv119.M
Data File : IL2.D Operator : sv119:dv
Date Inj'd : 12/7/2023 3:26 pm Instrument : SV119
Sample : IL2,32,,0.01 Lot#10234 Quant Date : 12/8/2023 1:33 pm

Compound #15: 2,6-Dinitrotoluene



Original Peak Response = 68



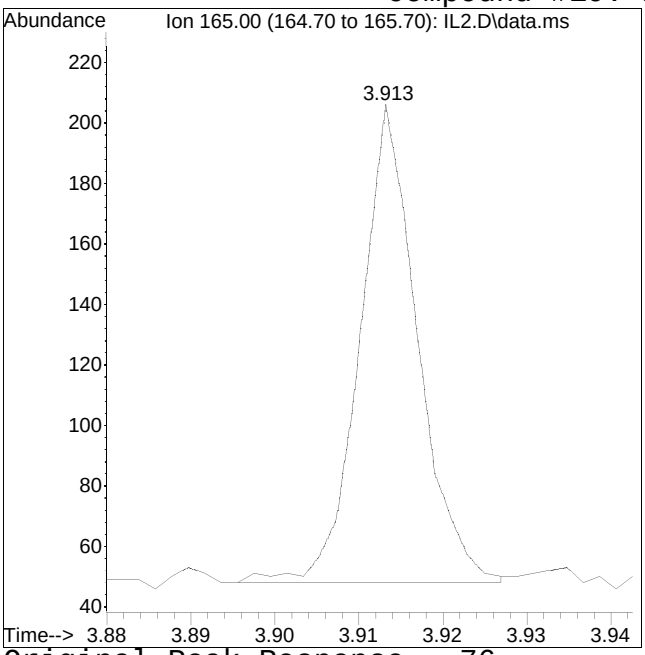
Manual Peak Response = 64 M6

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

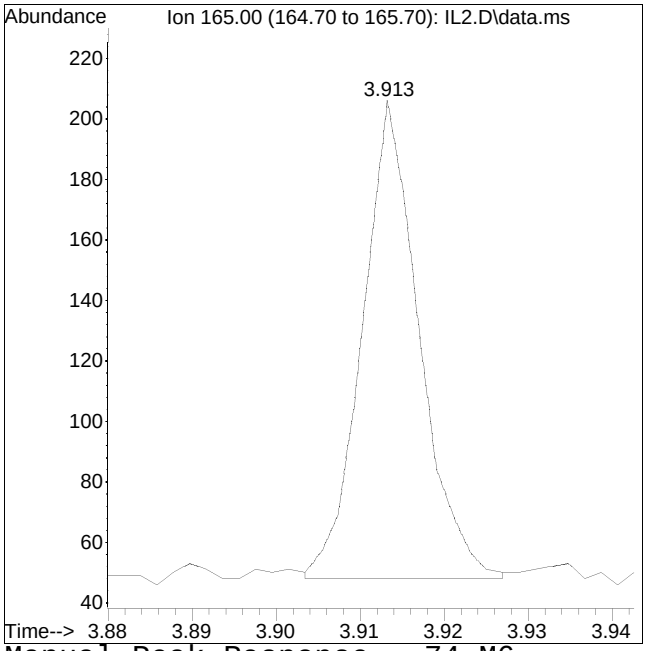
Manual Integration Report

Data Path : I:\8270SIM\sv119\231207nLVQMethod : SIM-LVI_231207n_sv119.M
Data File : IL2.D Operator : sv119:dv
Date Inj'd : 12/7/2023 3:26 pm Instrument : SV119
Sample : IL2,32,,0.01 Lot#10234 Quant Date : 12/8/2023 1:33 pm

Compound #19: 2,4-Dinitrotoluene



Original Peak Response = 76



Manual Peak Response = 74 M6

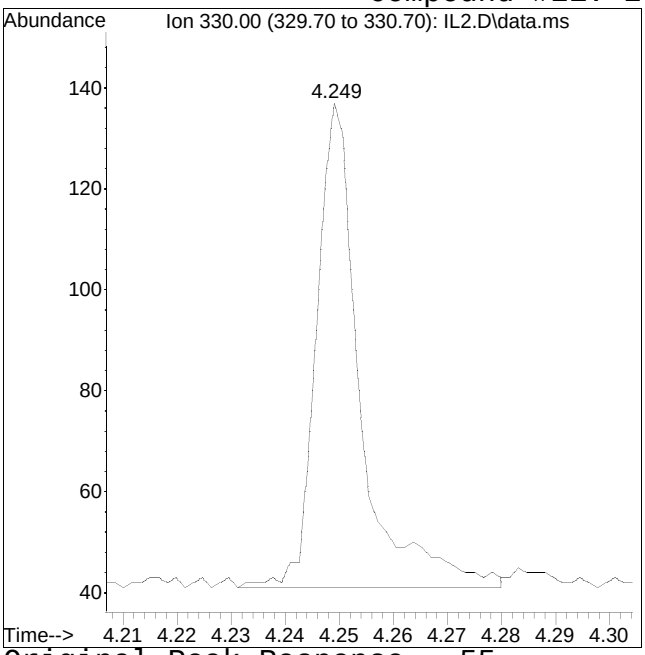
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

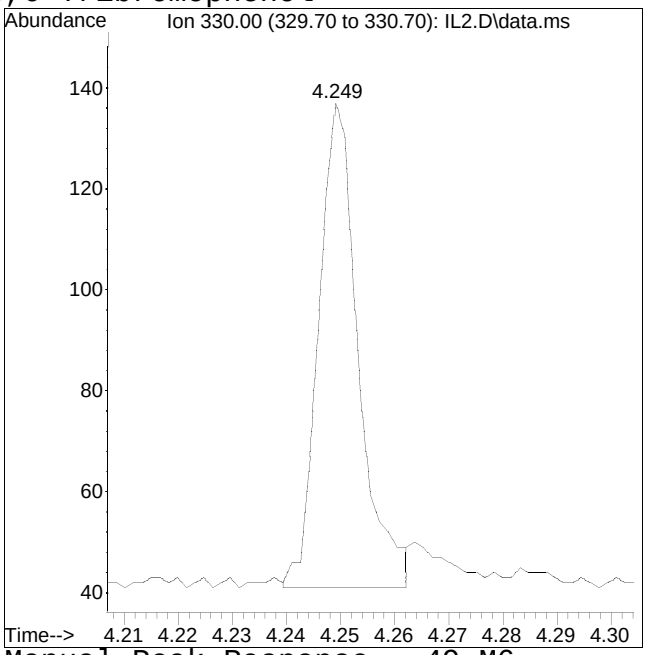
Data Path : I:\8270SIM\sv119\231207nLVQ
Data File : IL2.D
Date Inj'd : 12/7/2023 3:26 pm
Sample : IL2,32,,0.01 Lot#10234

Method : SIM-LVI_231207n_sv119.M
Operator : sv119:dv
Instrument : SV119
Quant Date : 12/8/2023 1:33 pm

Compound #21: 2,4,6-Tribromophenol



Original Peak Response = 55



Manual Peak Response = 49 M6

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\231207nLVIical\
Data File : IL1.D
Acq On : 07 Dec 2023 03:42 pm
Operator : sv119:dv
Sample : IL1,32,, 0.005 Lot#10235
Misc : WG1861379,,ical
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Dec 08 13:31:26 2023
Quant Method : I:\8270SIM\sv119\231207nLVIical\SIM-LVI_231207n_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Dec 08 13:31:30 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv119\231207nLVIical\IL7.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.183	152	47534	4000.000	ng/ml	0.00
Standard Area 1 = 44131			Recovery = 107.71%			
8) Naphthalene-d8	2.841	136	159531	4000.000	ng/ml	0.00
Standard Area 1 = 154719			Recovery = 103.11%			
17) Acenaphthene-d10	3.808	164	93128	4000.000	ng/ml	0.00
Standard Area 1 = 88793			Recovery = 104.88%			
22) Phenanthrene-d10	4.641	188	203282	4000.000	ng/ml	0.00
Standard Area 1 = 199383			Recovery = 101.96%			
31) Chrysene-d12	6.191	240	211989	4000.000	ng/ml	0.00
Standard Area 1 = 198085			Recovery = 107.02%			
36) Perylene-d12	7.359	264	218868	4000.000	ng/ml	0.00
Standard Area 1 = 214743			Recovery = 101.92%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.591	112	67	5.153	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 0.10%#			
3) Phenol-d6	1.996	99	85	5.454	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 0.11%#			
7) Nitrobenzene-d5	2.463	82	54	4.568	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 0.18%#			
13) 2-Fluorobiphenyl	3.433	172	197	5.529	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 0.22%#			
21) 2,4,6-Tribromophenol	4.249	330	25	4.869	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 0.10%#			
30) 4-Terphenyl-d14	5.563	244	285	5.719	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 0.23%#			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	2.051	93	76	5.734	ng/ml	83
5) n-nitrosodi-n-propylamine	2.385	70	36	4.542	ng/ml	99
6) Hexachloroethane	2.443	117	33	5.612	ng/ml	92
9) Naphthalene	2.852	128	199	5.224	ng/ml	99
10) Hexachlorobutadiene	2.926	225	44	5.364	ng/ml	93
11) 2-Methylnaphthalene	3.229	142	146	5.184	ng/ml	97
12) 1-Methylnaphthalene	3.282	142	141	5.429	ng/ml	100
14) 2-Chloronaphthalene	3.496	162	160	5.333	ng/ml	99
15) 2,6-Dinitrotoluene	0.000		0	N.D. d		
16) Acenaphthylene	3.727	152	239	5.361	ng/ml	99
18) Acenaphthene	3.825	153	150	5.210	ng/ml	97

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\231207nLVIical\
Data File : IL1.D
Acq On : 07 Dec 2023 03:42 pm
Operator : sv119:dv
Sample : IL1,32,, 0.005 Lot#10235
Misc : WG1861379,,ical
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Dec 08 13:31:26 2023
Quant Method : I:\8270SIM\sv119\231207nLVIical\SIM-LVI_231207n_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Dec 08 13:31:30 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv119\231207nLVIical\IL7.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
19) 2,4-Dinitrotoluene	0.000		0	N.D.	d	
20) Fluorene	4.115	166	179	5.202	ng/ml	99
23) 4,6-Dinitro-o-cresol	0.000		0	N.D.	d	
24) Hexachlorobenzene	4.430	284	74	5.631	ng/ml	100
25) Pentachlorophenol	0.000		0	N.D.	d	
26) Phenanthrene	4.655	178	275	5.326	ng/ml	97
27) Anthracene	4.683	178	265	5.175	ng/ml	98
28) Fluoranthene	5.333	202	371	5.450	ng/ml	99
29) Pyrene	5.466	202	387	5.535	ng/ml	98
32) Benzo[a]anthracene	6.188	228	998	3.464	ng/ml#	81
33) 3,3'-Dichlorobenzidine	0.000		0	N.D.	d	
34) Chrysene	6.208	228	344	4.917	ng/ml	96
35) Bis(2-ethylhexyl)phtha...	6.223	149	189	36.436	ng/ml	97
37) Benzo[b]fluoranthene	7.003	252	414	5.414	ng/ml	100
38) Benzo[k]fluoranthene	7.026	252	391	5.385	ng/ml	100
39) Benzo[a]pyrene	7.299	252	348	5.171	ng/ml	97
40) Indeno[1,2,3-cd]pyrene	8.530	276	384	5.250	ng/ml	92
41) Dibenzo[a,h]anthracene	8.567	278	358	5.260	ng/ml	96
42) Benzo[g,h,i]perylene	8.854	276	403	5.416	ng/ml	93

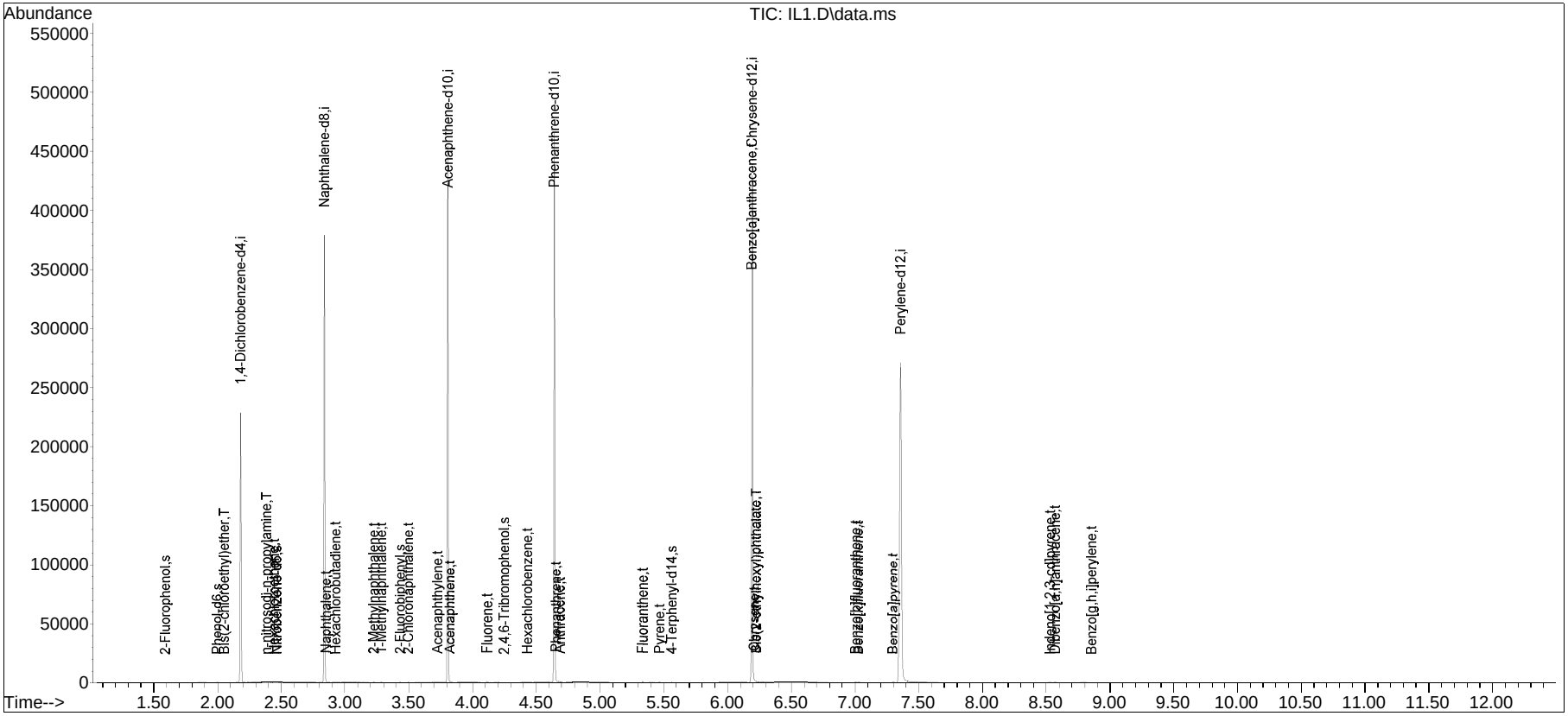
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\231207nLVIical\
Data File : IL1.D
Acq On : 07 Dec 2023 03:42 pm
Operator : sv119:dv
Sample : IL1,32,, 0.005 Lot#10235
Misc : WG1861379,,ical
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Dec 08 13:31:26 2023
Quant Method : I:\8270SIM\sv119\231207nLVIical\SIM-LVI_231207n_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Dec 08 13:31:30 2023
Response via : Initial Calibration

Sub List : Default - All compounds listedIical\IL7.D•



Manual Integration Report

Data Path	: I:\8270SIM\sv119\231207nLVQ	Method	: SIM-LVI_231207n_sv119.M
Data File	: IL1.D	Operator	: sv119:dv
Date Inj'd	: 12/7/2023 3:42 pm	Instrument	: SV119
Sample	: IL1,32,, 0.005 Lot#10235	Quant Date	: 12/8/2023 1:31 pm

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

Evaluate Continuing Calibration Report

Data Path : I:\8270SIM\sv119\231207nLVIical\
Data File : ICV.D
Acq On : 07 Dec 2023 03:59 pm
Operator : sv119:dv
Sample : CQICV,32,,1.0 Lot#10193
Misc : WG1861379,,ical
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Dec 08 14:09:48 2023
Quant Method : I:\8270SIM\sv119\231207nLVIical\SIM-LVI_231207n_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Dec 08 14:09:54 2023
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	i	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	102	0.00
2	s	2-Fluorophenol	1.094	1.204	-10.1	104	0.00
3	s	Phenol-d6	1.311	1.360	-3.7	103	0.00
4	T	Bis(2-chloroethyl)ether	1.115	1.161	-4.1	105	0.00
5	T	n-nitrosodi-n-propylamine	0.667	0.690	-3.4	101	0.00
6	t	Hexachloroethane	0.495	0.510	-3.0	103	0.00
7	s	Nitrobenzene-d5	0.995	1.007	-1.2	97	0.00
8	i	Naphthalene-d8	1.000	1.000	0.0	102	0.00
9	t	Naphthalene	0.955	1.016	-6.4	104	0.00
10	t	Hexachlorobutadiene	0.206	0.217	-5.3	102	0.00
11	t	2-Methylnaphthalene	0.706	0.746	-5.7	102	0.00
12	t	1-Methylnaphthalene	0.651	0.710	-9.1	107	0.00
13	s	2-Fluorobiphenyl	0.893	0.924	-3.5	101	0.00
14	t	2-Chloronaphthalene	0.752	0.794	-5.6	105	0.00
15	t	2,6-Dinitrotoluene	0.170	0.177	-4.1	103	0.00
16	t	Acenaphthylene	1.118	1.235	-10.5	106	0.00
17	i	Acenaphthene-d10	1.000	1.000	0.0	103	0.00
18	t	Acenaphthene	1.237	1.321	-6.8	104	0.00
19	t	2,4-Dinitrotoluene	0.369	0.399	-8.1	102	0.00
20	t	Fluorene	1.478	1.659	-12.2	108	0.00
21	s	2,4,6-Tribromophenol	0.221	0.241	-9.0	103	0.00
22	i	Phenanthrene-d10	1.000	1.000	0.0	105	0.00
23	T	4,6-Dinitro-o-cresol	*1000.000	868.947	13.1	97	0.00
24	t	Hexachlorobenzene	0.259	0.277	-6.9	107	0.00
25	t	Pentachlorophenol	*1000.000	905.878	9.4	99	0.00
26	t	Phenanthrene	1.016	1.101	-8.4	108	0.00
27	t	Anthracene	1.008	1.097	-8.8	107	0.00
28	t	Fluoranthene	1.339	1.474	-10.1	108	0.00
29	t	Pyrene	1.376	1.494	-8.6	109	0.00
30	s	4-Terphenyl-d14	0.981	0.966	1.5	100	0.00
31	i	Chrysene-d12	1.000	1.000	0.0	103	0.00
32	t	Benzo[a]anthracene	*1000.000	1130.168	-13.0	105	0.00
33	t	3,3'-Dichlorobenzidine	0.604	0.620	-2.6	102	0.00
34	t	Chrysene	1.320	1.400	-6.1	106	0.00
35	T	Bis(2-ethylhexyl)phthalate	*1000.000	813.981	18.6	100	0.00

Evaluate Continuing Calibration Report

Data Path : I:\8270SIM\sv119\231207nLVIical\
Data File : ICV.D
Acq On : 07 Dec 2023 03:59 pm
Operator : sv119:dv
Sample : CQICV,32,,1.0 Lot#10193
Misc : WG1861379,,ical
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Dec 08 14:09:48 2023
Quant Method : I:\8270SIM\sv119\231207nLVIical\SIM-LVI_231207n_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Dec 08 14:09:54 2023
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
36	i	Perylene-d12	1.000	1.000	0.0	104	-0.01
37	t	Benzo[b]fluoranthene	1.397	1.544	-10.5	107	0.00
38	t	Benzo[k]fluoranthene	1.327	1.356	-2.2	102	0.00
39	t	Benzo[a]pyrene	1.230	1.276	-3.7	102	0.00
40	t	Indeno[1,2,3-cd]pyrene	1.337	1.484	-11.0	109	-0.01
41	t	Dibenzo[a,h]anthracene	1.244	1.369	-10.0	109	-0.01
42	t	Benzo[g,h,i]perylene	1.360	1.500	-10.3	109	0.00

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\231207nLVIical\
Data File : ICV.D
Acq On : 07 Dec 2023 03:59 pm
Operator : sv119:dv
Sample : CQICV,32,,1.0 Lot#10193
Misc : WG1861379,,ical
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Dec 08 14:09:48 2023
Quant Method : I:\8270SIM\sv119\231207nLVIical\SIM-LVI_231207n_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Dec 08 14:09:54 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv119\231207nLVIical\IL7.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.184	152	44993	4000.000	ng/ml	0.00
Standard Area 1 = 44131			Recovery = 101.95%			
8) Naphthalene-d8	2.840	136	157864	4000.000	ng/ml	0.00
Standard Area 1 = 154719			Recovery = 102.03%			
17) Acenaphthene-d10	3.807	164	91173	4000.000	ng/ml	0.00
Standard Area 1 = 88793			Recovery = 102.68%			
22) Phenanthrene-d10	4.641	188	208520	4000.000	ng/ml	0.00
Standard Area 1 = 199383			Recovery = 104.58%			
31) Chrysene-d12	6.190	240	204628	4000.000	ng/ml	0.00
Standard Area 1 = 198085			Recovery = 103.30%			
36) Perylene-d12	7.356	264	223430	4000.000	ng/ml	-0.01
Standard Area 1 = 214743			Recovery = 104.05%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.590	112	13546	1100.734	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 22.01%			
3) Phenol-d6	1.995	99	15299	1037.113	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 20.74%			
7) Nitrobenzene-d5	2.461	82	11327	1012.276	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 40.49%			
13) 2-Fluorobiphenyl	3.432	172	36449	1033.805	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 41.35%			
21) 2,4,6-Tribromophenol	4.249	330	5485	1091.214	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 21.82%			
30) 4-Terphenyl-d14	5.562	244	50383	985.625	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 39.42%			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	2.050	93	13057	1040.790	ng/ml	95
5) n-nitrosodi-n-propylamine	2.383	70	7758	1033.970	ng/ml#	91
6) Hexachloroethane	2.442	117	5737	1030.734	ng/ml	91
9) Naphthalene	2.851	128	40083	1063.357	ng/ml	100
10) Hexachlorobutadiene	2.925	225	8550	1053.232	ng/ml	100
11) 2-Methylnaphthalene	3.228	142	29423	1055.682	ng/ml	99
12) 1-Methylnaphthalene	3.281	142	28038	1090.908	ng/ml	99
14) 2-Chloronaphthalene	3.495	162	31353	1056.068	ng/ml	96
15) 2,6-Dinitrotoluene	3.687	165	6970	1039.701	ng/ml#	79
16) Acenaphthylene	3.727	152	48743	1104.815	ng/ml	100
18) Acenaphthene	3.825	153	30119	1068.594	ng/ml	98

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\231207nLVIical\
Data File : ICV.D
Acq On : 07 Dec 2023 03:59 pm
Operator : sv119:dv
Sample : CQICV,32,,1.0 Lot#10193
Misc : WG1861379,,ical
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Dec 08 14:09:48 2023
Quant Method : I:\8270SIM\sv119\231207nLVIical\SIM-LVI_231207n_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Dec 08 14:09:54 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv119\231207nLVIical\IL7.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
19) 2,4-Dinitrotoluene	3.913	165	9094	1082.167	ng/ml#	79
20) Fluorene	4.114	166	37806	1122.154	ng/ml	98
23) 4,6-Dinitro-o-cresol	4.140	198	5185	868.947	ng/ml	90
24) Hexachlorobenzene	4.428	284	14437	1070.968	ng/ml	98
25) Pentachlorophenol	4.538	266	7716	905.878	ng/ml	100
26) Phenanthrene	4.655	178	57399	1083.660	ng/ml	100
27) Anthracene	4.682	178	57179	1088.582	ng/ml	100
28) Fluoranthene	5.335	202	76831	1100.585	ng/ml	95
29) Pyrene	5.465	202	77872	1085.795	ng/ml	99
32) Benzo[a]anthracene	6.184	228	77469	1130.168	ng/ml	100
33) 3,3'-Dichlorobenzidine	6.173	252	31712	1025.782	ng/ml	100
34) Chrysene	6.208	228	71624	1060.547	ng/ml	100
35) Bis(2-ethylhexyl)phtha...	6.220	149	36205	813.981	ng/ml	98
37) Benzo[b]fluoranthene	7.001	252	86223	1104.621	ng/ml	99
38) Benzo[k]fluoranthene	7.025	252	75734	1021.783	ng/ml	100
39) Benzo[a]pyrene	7.297	252	71277	1037.409	ng/ml	100
40) Indeno[1,2,3-cd]pyrene	8.527	276	82912	1110.341	ng/ml	95
41) Dibenzo[a,h]anthracene	8.563	278	76479	1100.813	ng/ml	96
42) Benzo[g,h,i]perylene	8.854	276	83784	1103.053	ng/ml	94

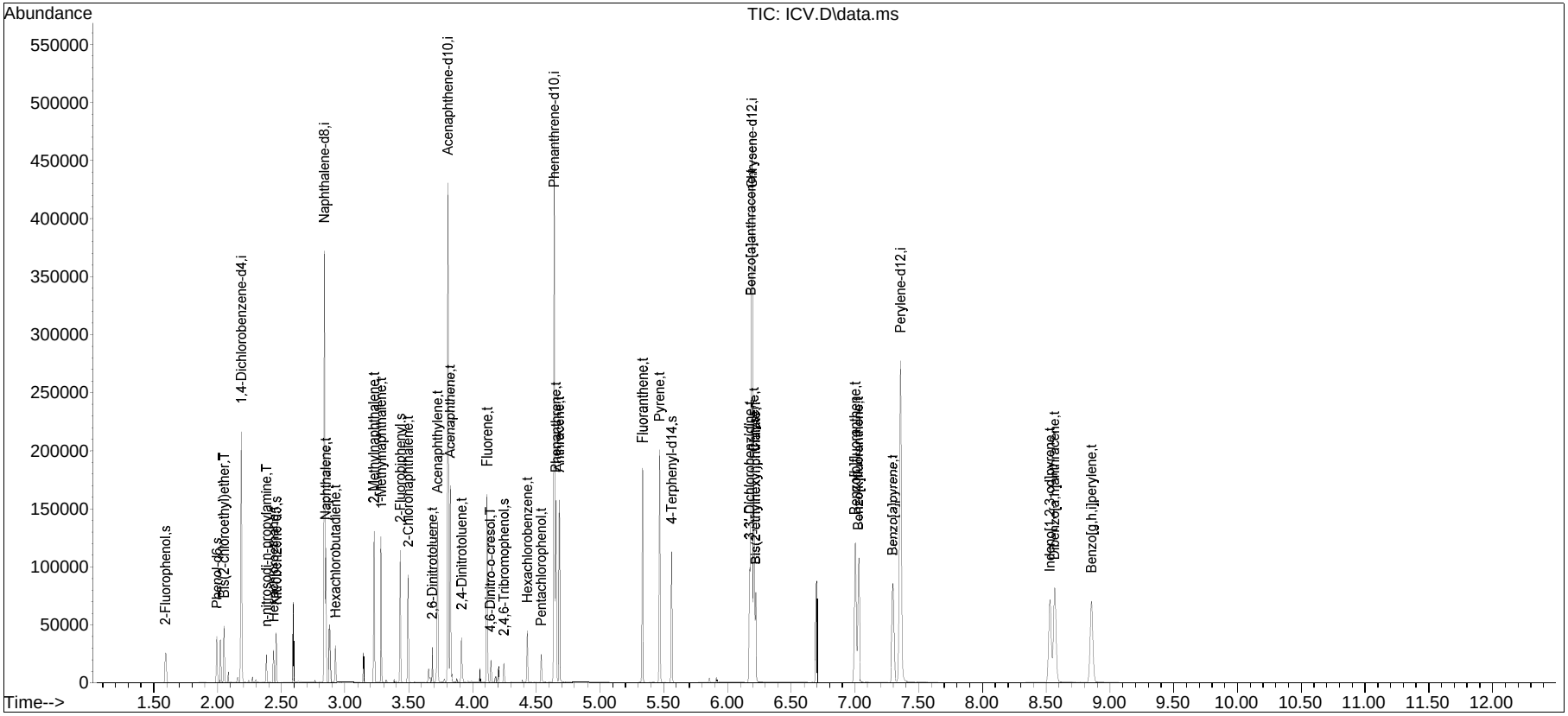
(#) = qualifier out of range (m) = manual integration (+) = signals summed

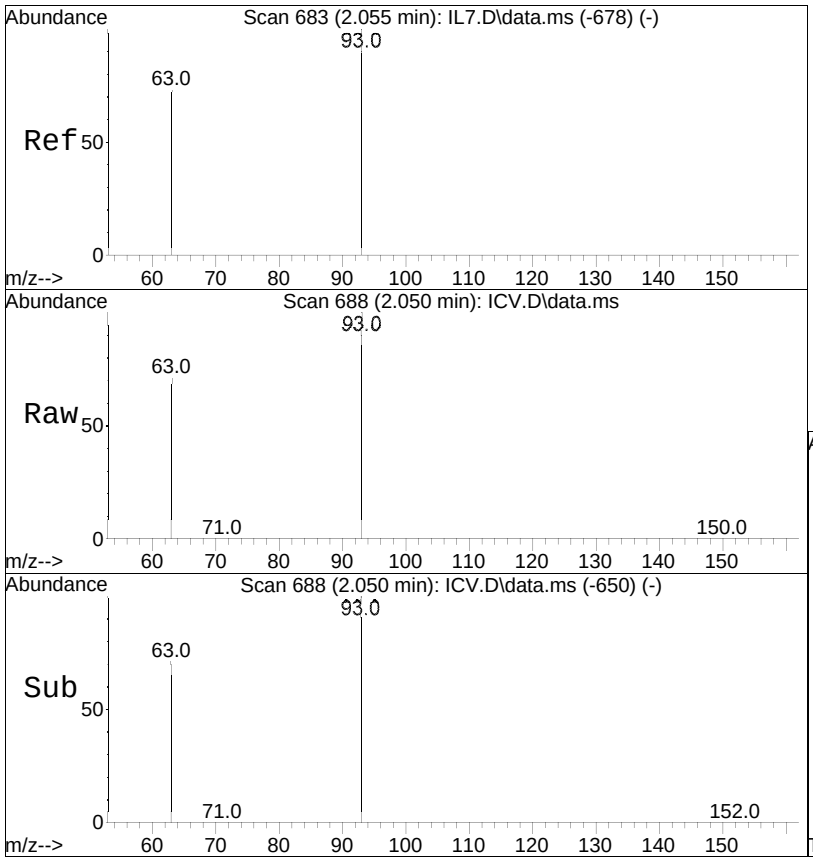
Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\231207nLVIical\
Data File : ICV.D
Acq On : 07 Dec 2023 03:59 pm
Operator : sv119:dv
Sample : CQICV,32,,1.0 Lot#10193
Misc : WG1861379,,ical
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Dec 08 14:09:48 2023
Quant Method : I:\8270SIM\sv119\231207nLVIical\SIM-LVI_231207n_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Dec 08 14:09:54 2023
Response via : Initial Calibration

Sub List : Default - All compounds listedIical\IL7.D•

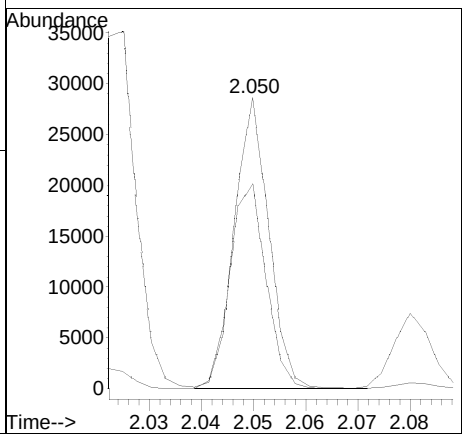


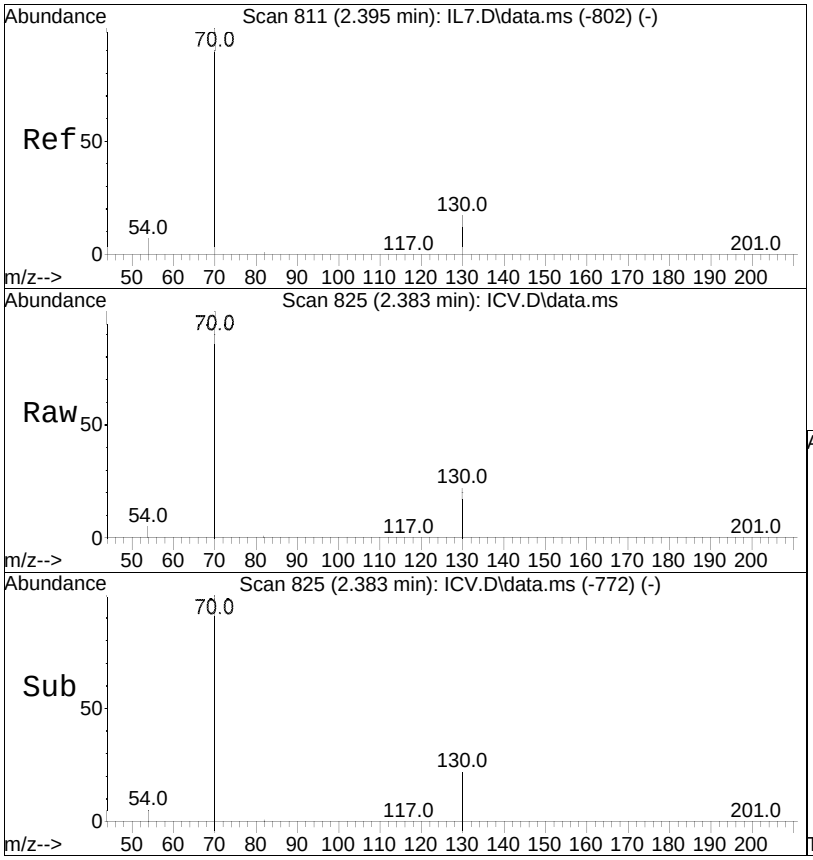


#4
Bis(2-chloroethyl)ether
Concen: 1040.79 ng/ml
RT: 2.050 min Scan# 688
Delta R.T. 0.004 min
Lab File: ICV.D
Acq: 07 Dec 2023 03:59 pm

Tgt Ion: 93 Resp: 13057

Ion	Ratio	Lower	Upper
93	100		
63	74.2	62.6	94.0

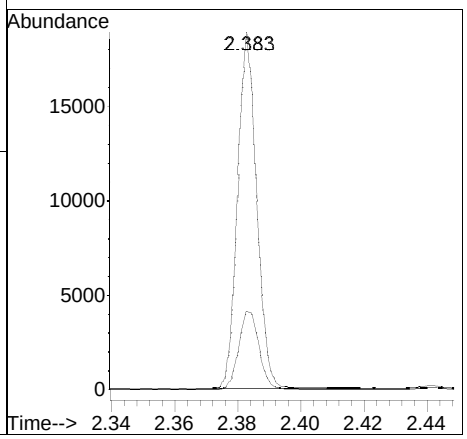


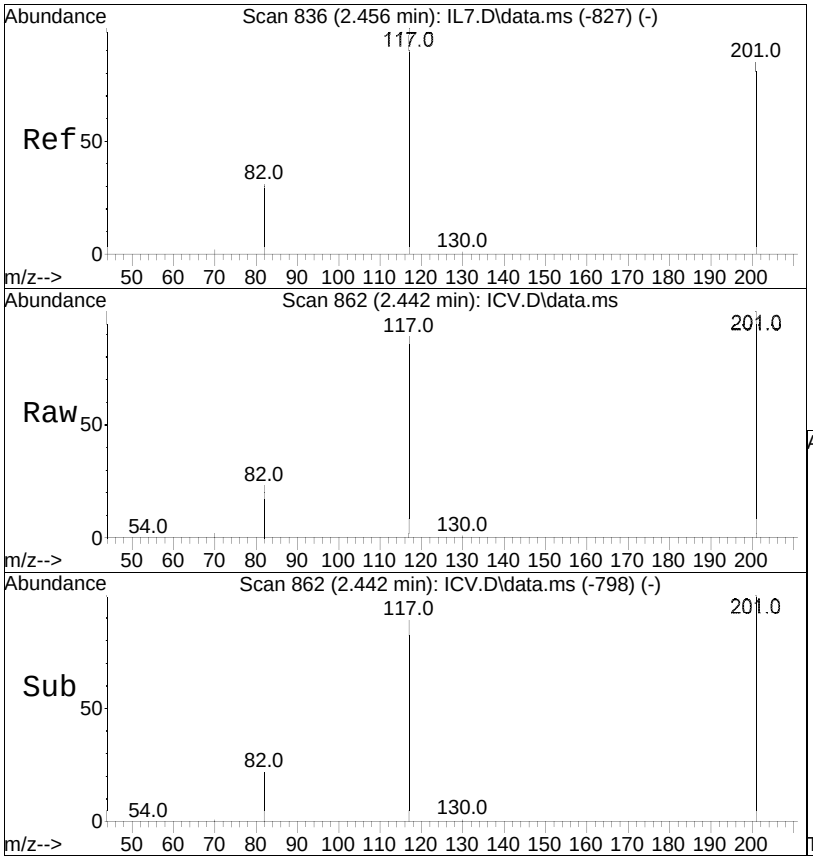


#5
n-nitrosodi-n-propylamine
Concen: 1033.97 ng/ml
RT: 2.383 min Scan# 825
Delta R.T. 0.003 min
Lab File: ICV.D
Acq: 07 Dec 2023 03:59 pm

Tgt Ion: 70 Resp: 7758

Ion	Ratio	Lower	Upper
70	100		
130	22.9	15.0	22.6#

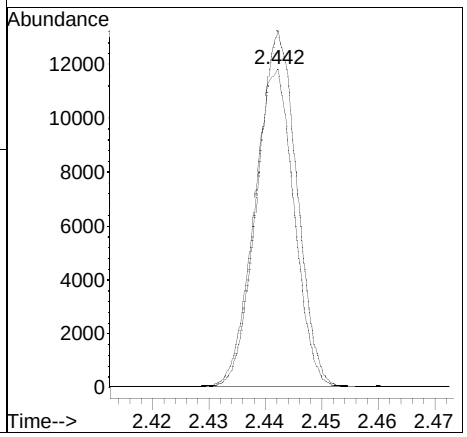


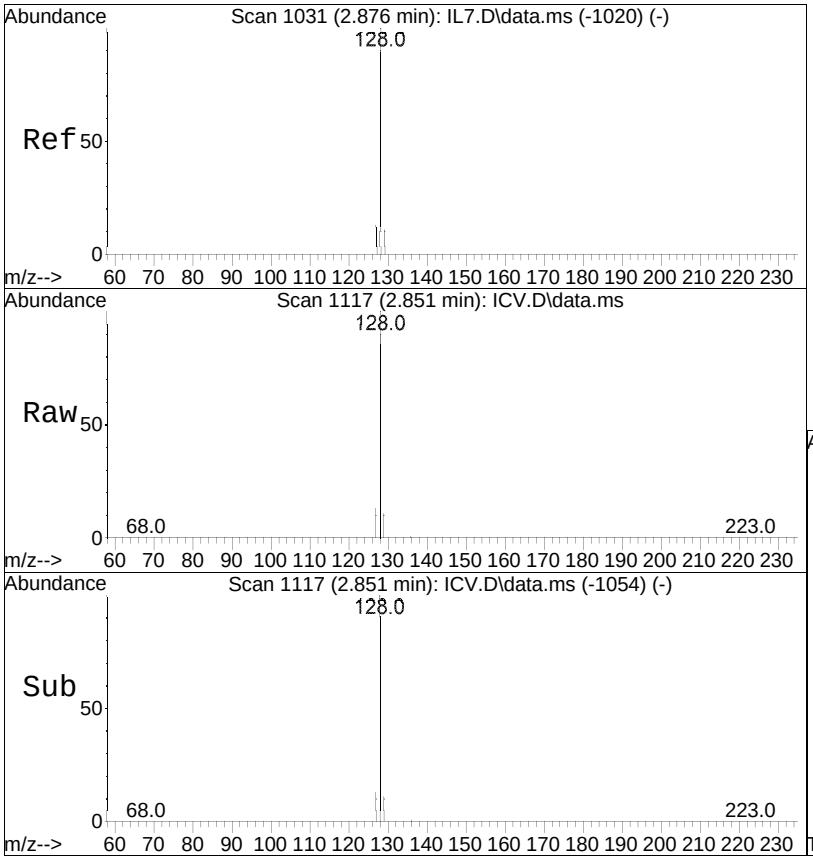


#6
Hexachloroethane
Concen: 1030.73 ng/ml
RT: 2.442 min Scan# 862
Delta R.T. 0.003 min
Lab File: ICV.D
Acq: 07 Dec 2023 03:59 pm

Tgt Ion:117 Resp: 5737

Ion	Ratio	Lower	Upper
117	100		
201	110.8	81.5	122.3

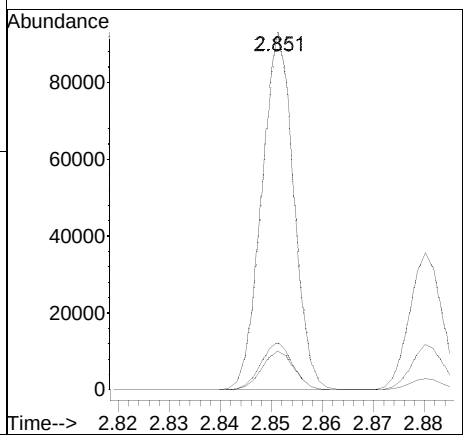


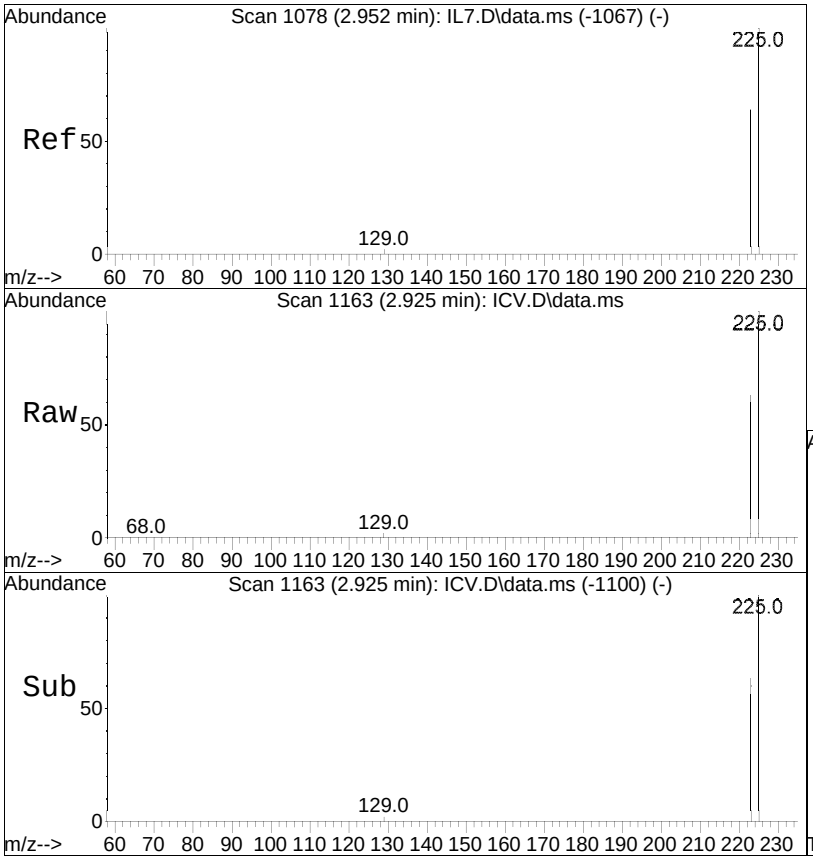


#9
Naphthalene
Concen: 1063.36 ng/ml
RT: 2.851 min Scan# 1117
Delta R.T. 0.001 min
Lab File: ICV.D
Acq: 07 Dec 2023 03:59 pm

Tgt Ion:128 Resp: 40083

Ion	Ratio	Lower	Upper
128	100		
129	11.1	8.8	13.2
127	13.1	10.6	15.8

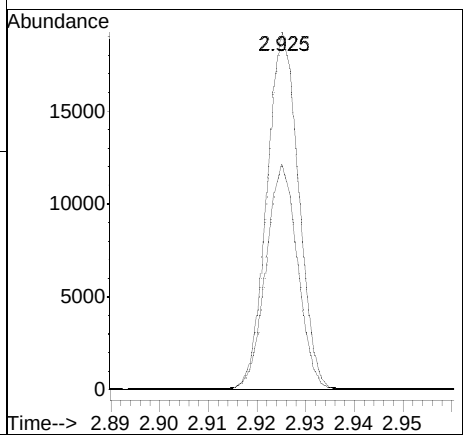


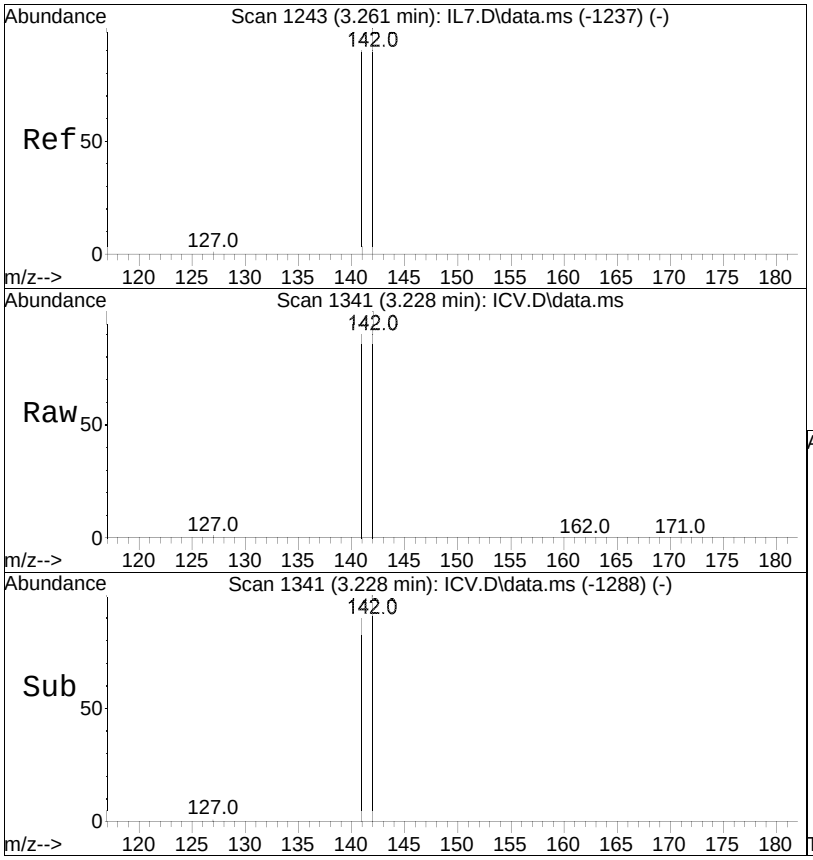


#10
Hexachlorobutadiene
Concen: 1053.23 ng/ml
RT: 2.925 min Scan# 1163
Delta R.T. 0.001 min
Lab File: ICV.D
Acq: 07 Dec 2023 03:59 pm

Tgt Ion:225 Resp: 8550

Ion	Ratio	Lower	Upper
225	100		
223	62.7	50.1	75.1

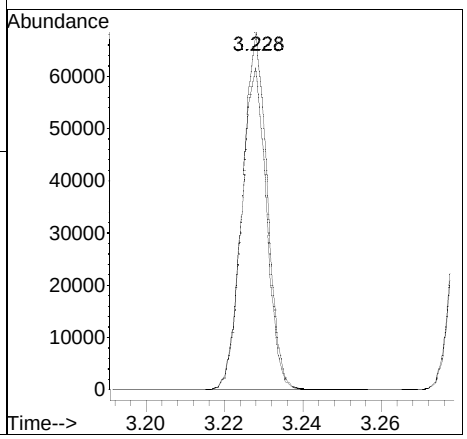


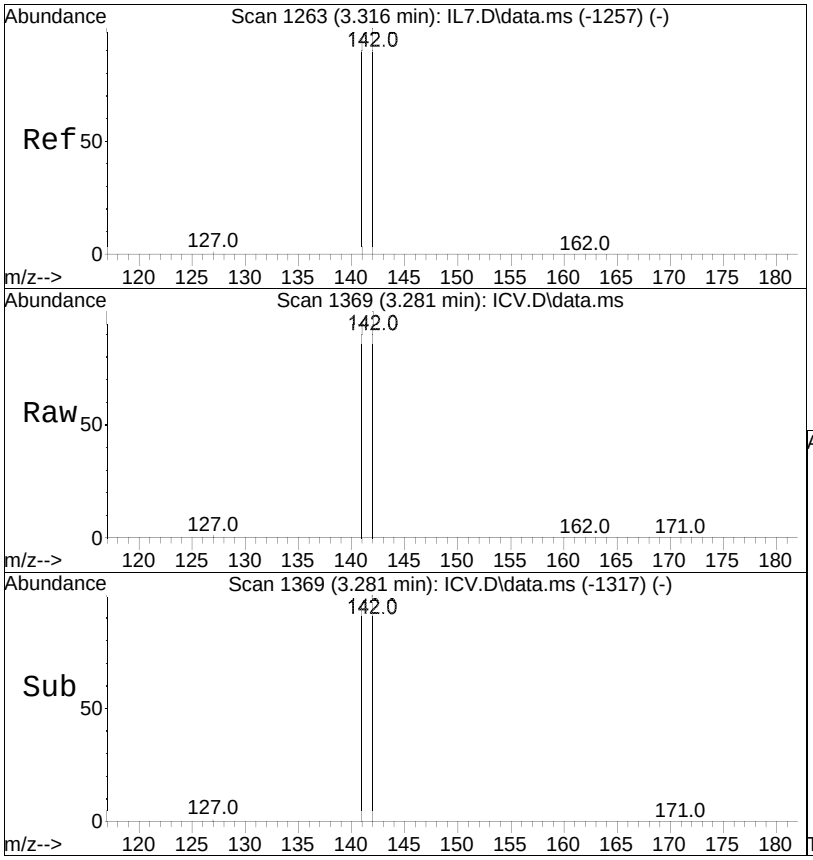


#11
2-Methylnaphthalene
Concen: 1055.68 ng/ml
RT: 3.228 min Scan# 1341
Delta R.T. 0.001 min
Lab File: ICV.D
Acq: 07 Dec 2023 03:59 pm

Tgt Ion:142 Resp: 29423

Ion	Ratio	Lower	Upper
142	100		
141	91.8	74.1	111.1

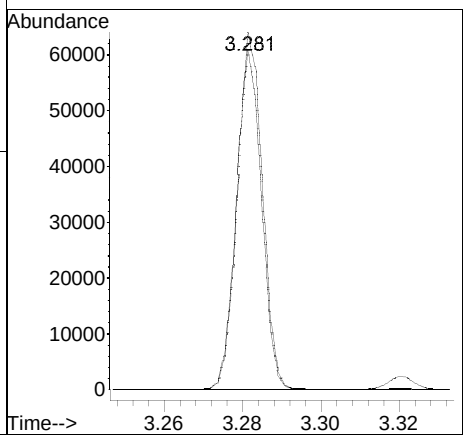


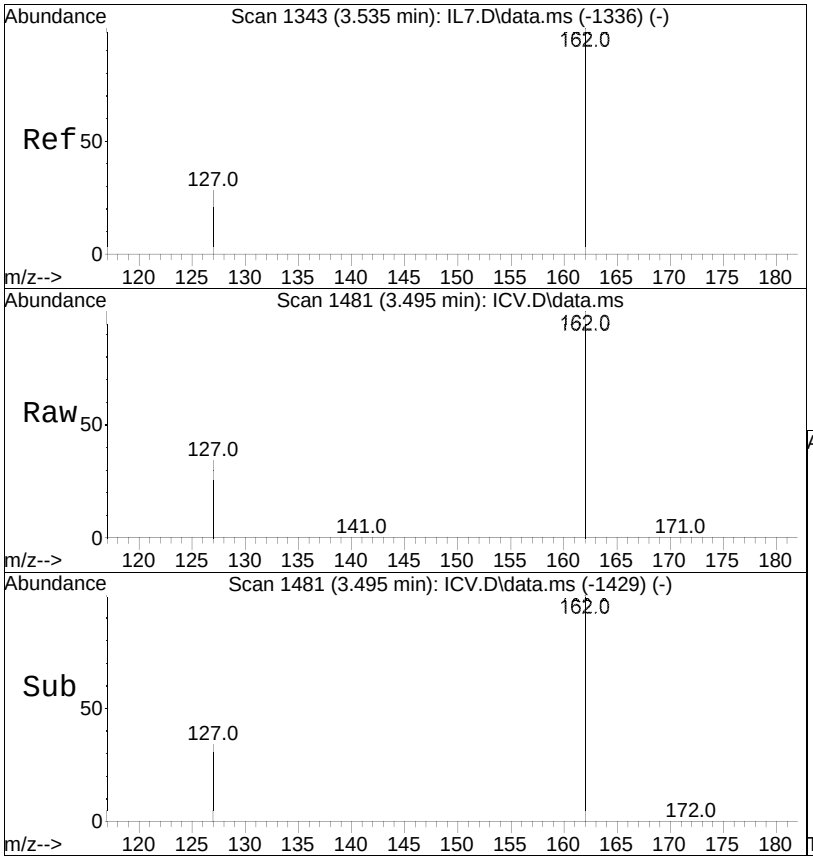


#12
1-Methylnaphthalene
Concen: 1090.91 ng/ml
RT: 3.281 min Scan# 1369
Delta R.T. -0.001 min
Lab File: ICV.D
Acq: 07 Dec 2023 03:59 pm

Tgt Ion:142 Resp: 28038

Ion	Ratio	Lower	Upper
142	100		
141	94.7	76.6	114.8

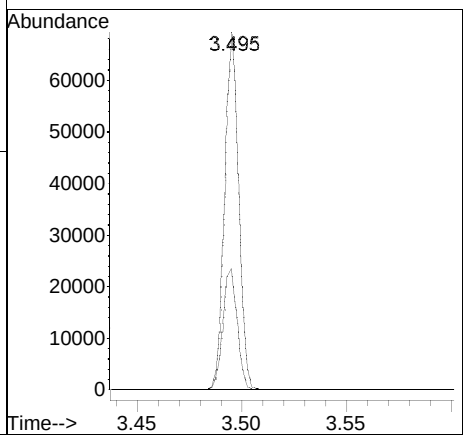


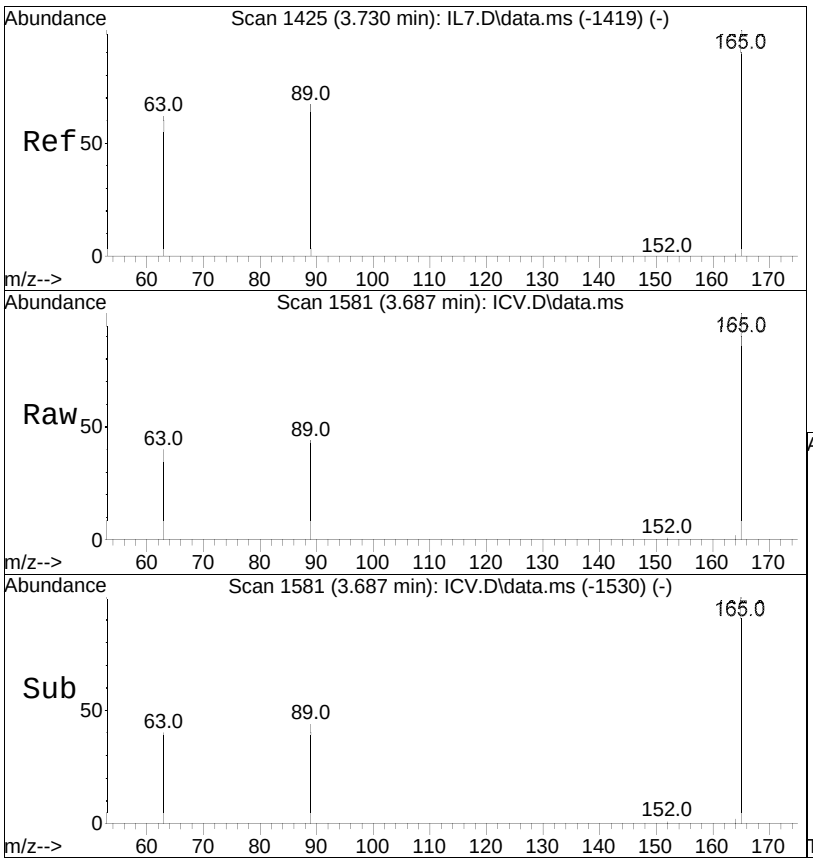


#14
2-Chloronaphthalene
Concen: 1056.07 ng/ml
RT: 3.495 min Scan# 1481
Delta R.T. -0.001 min
Lab File: ICV.D
Acq: 07 Dec 2023 03:59 pm

Tgt Ion:162 Resp: 31353

Ion	Ratio	Lower	Upper
162	100		
127	34.7	29.7	44.5

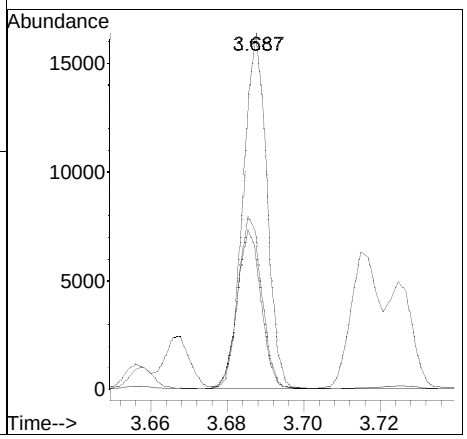


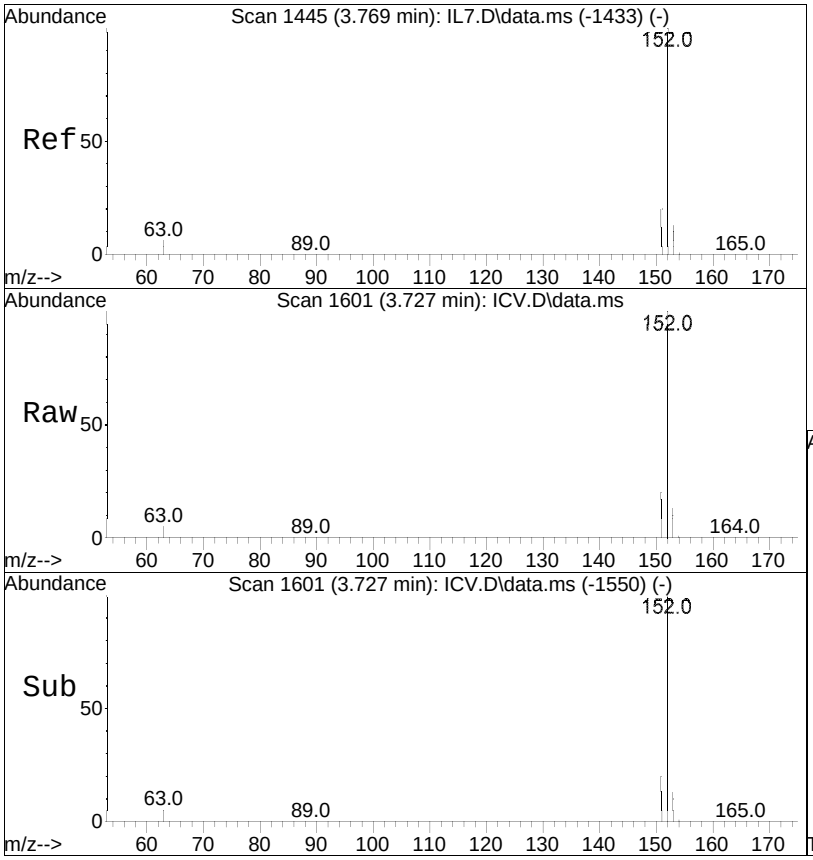


#15
2,6-Dinitrotoluene
Concen: 1039.70 ng/ml
RT: 3.687 min Scan# 1581
Delta R.T. -0.001 min
Lab File: ICV.D
Acq: 07 Dec 2023 03:59 pm

Tgt Ion:165 Resp: 6970

Ion	Ratio	Lower	Upper
165	100		
89	50.2	52.8	79.2#
63	46.2	50.9	76.3#

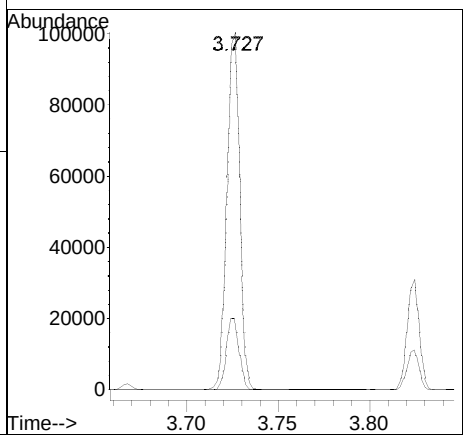


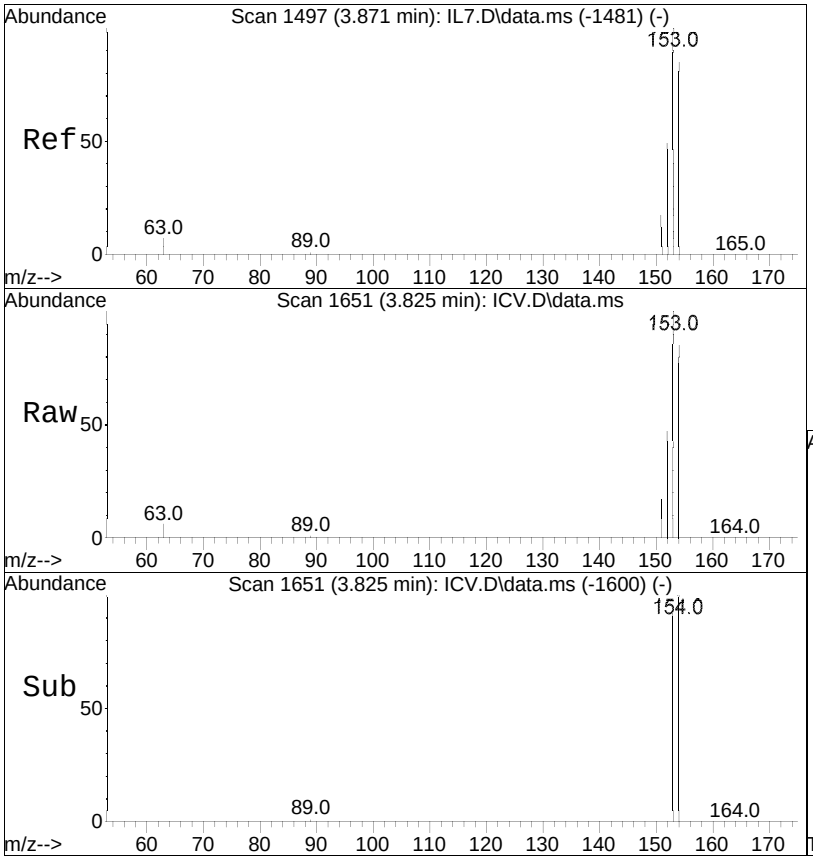


#16
Acenaphthylene
Concen: 1104.82 ng/ml
RT: 3.727 min Scan# 1601
Delta R.T. -0.000 min
Lab File: ICV.D
Acq: 07 Dec 2023 03:59 pm

Tgt Ion:152 Resp: 48743

Ion	Ratio	Lower	Upper
152	100		
151	20.0	16.0	24.0

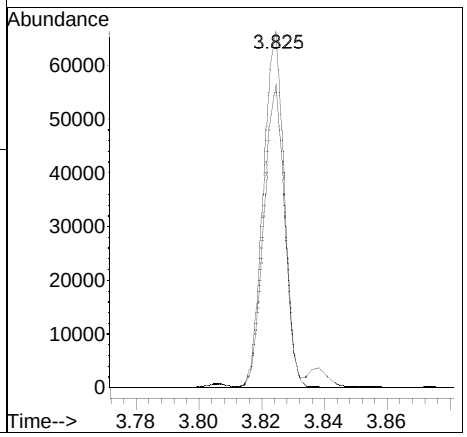


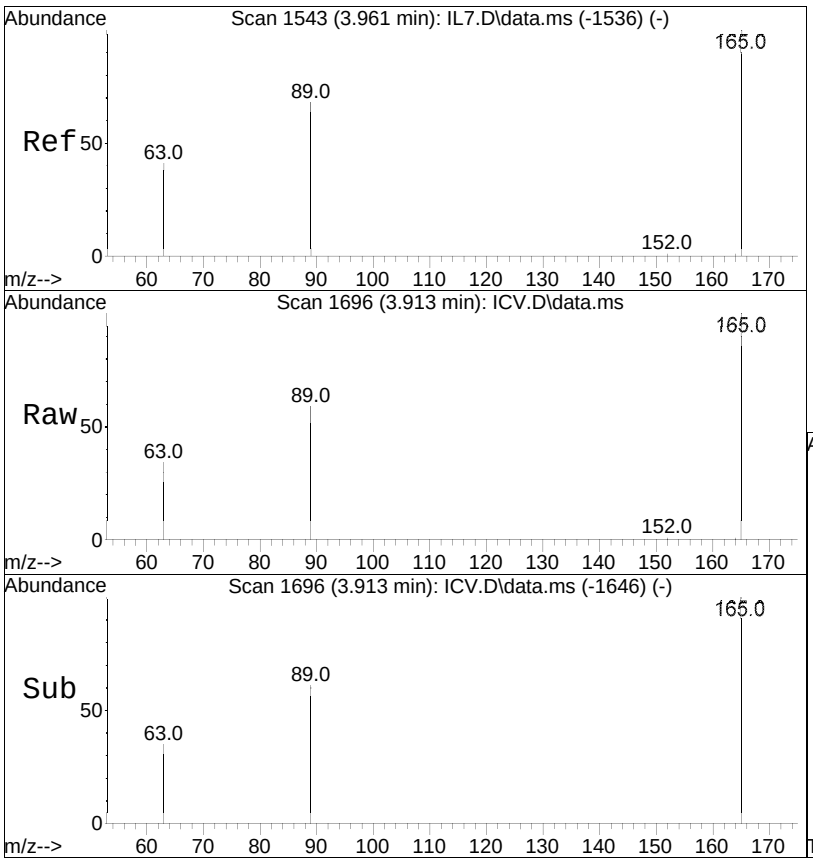


#18
Acenaphthene
Concen: 1068.59 ng/ml
RT: 3.825 min Scan# 1651
Delta R.T. -0.000 min
Lab File: ICV.D
Acq: 07 Dec 2023 03:59 pm

Tgt Ion:153 Resp: 30119

Ion	Ratio	Lower	Upper
153	100		
154	85.1	66.9	100.3

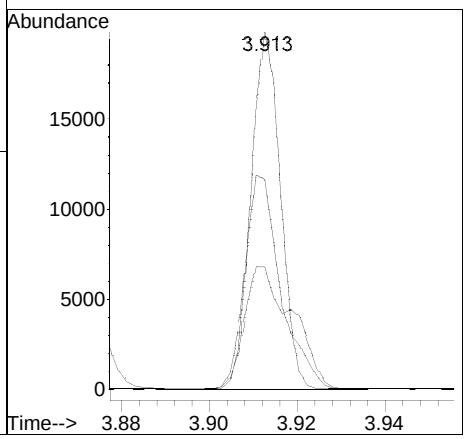


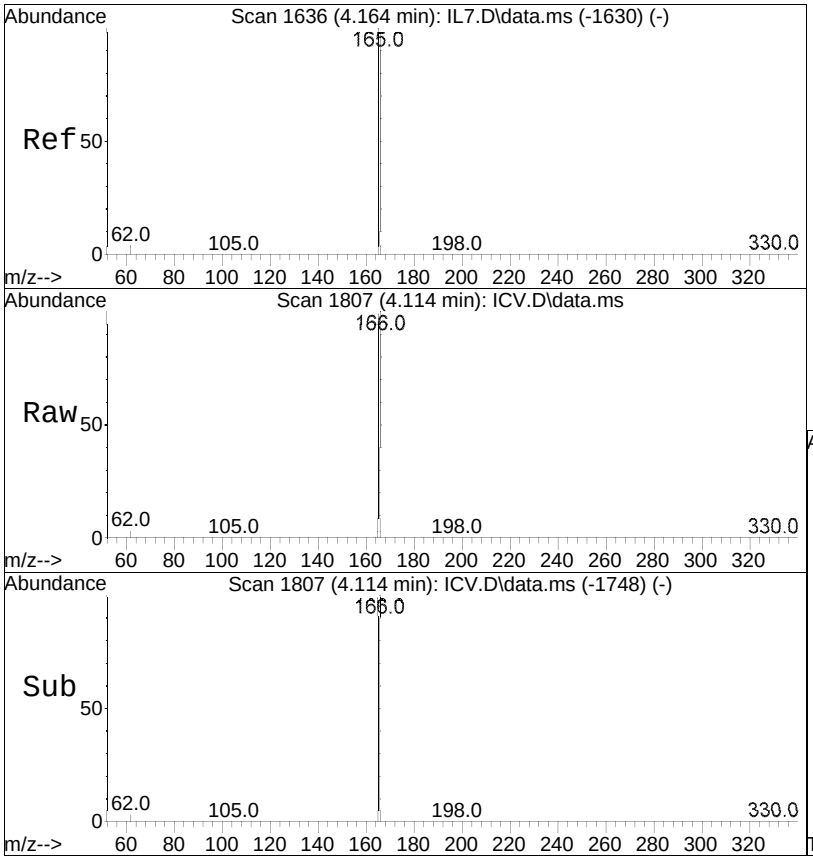


#19
2,4-Dinitrotoluene
Concen: 1082.17 ng/ml
RT: 3.913 min Scan# 1696
Delta R.T. -0.002 min
Lab File: ICV.D
Acq: 07 Dec 2023 03:59 pm

Tgt Ion:165 Resp: 9094

Ion	Ratio	Lower	Upper
165	100		
89	73.0	80.1	120.1#
63	55.0	38.9	58.3

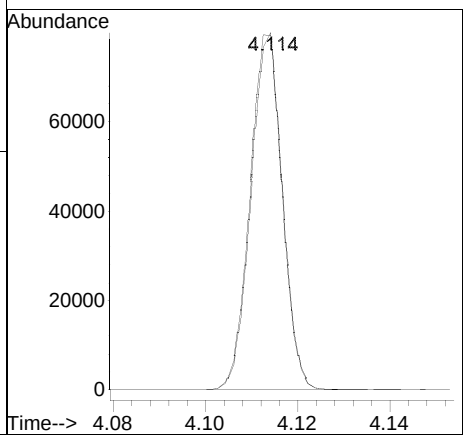


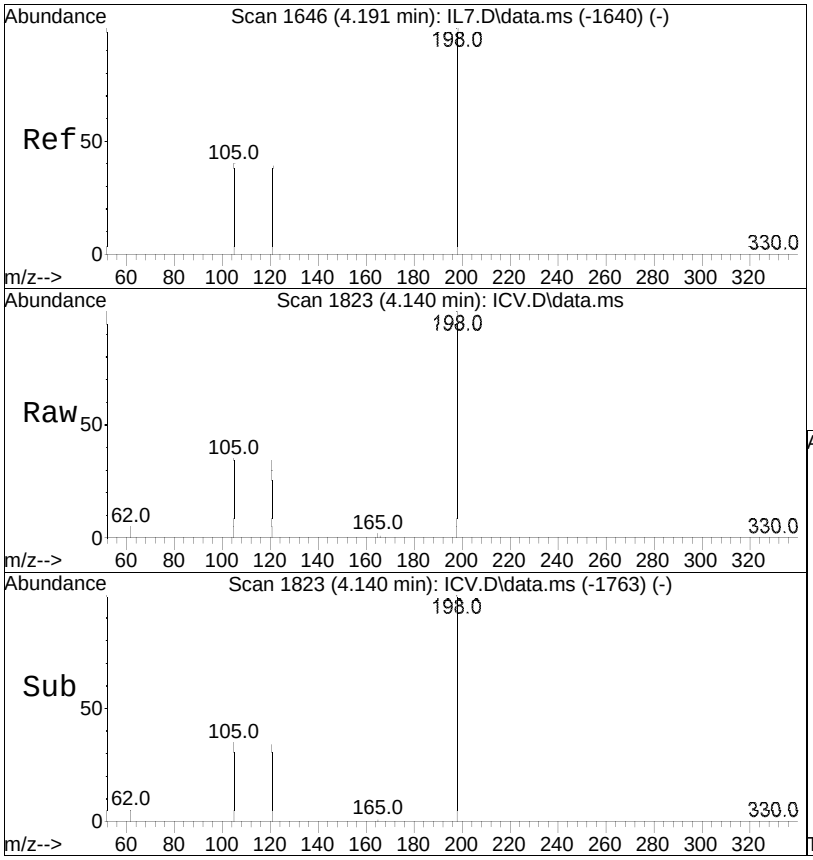


#20
Fluorene
Concen: 1122.15 ng/ml
RT: 4.114 min Scan# 1807
Delta R.T. 0.000 min
Lab File: ICV.D
Acq: 07 Dec 2023 03:59 pm

Tgt Ion:166 Resp: 37806

Ion	Ratio	Lower	Upper
166	100		
165	101.7	82.9	124.3

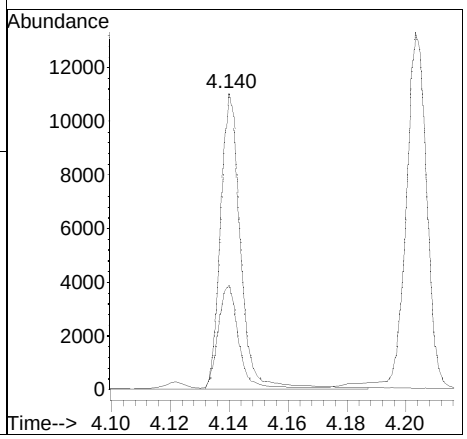


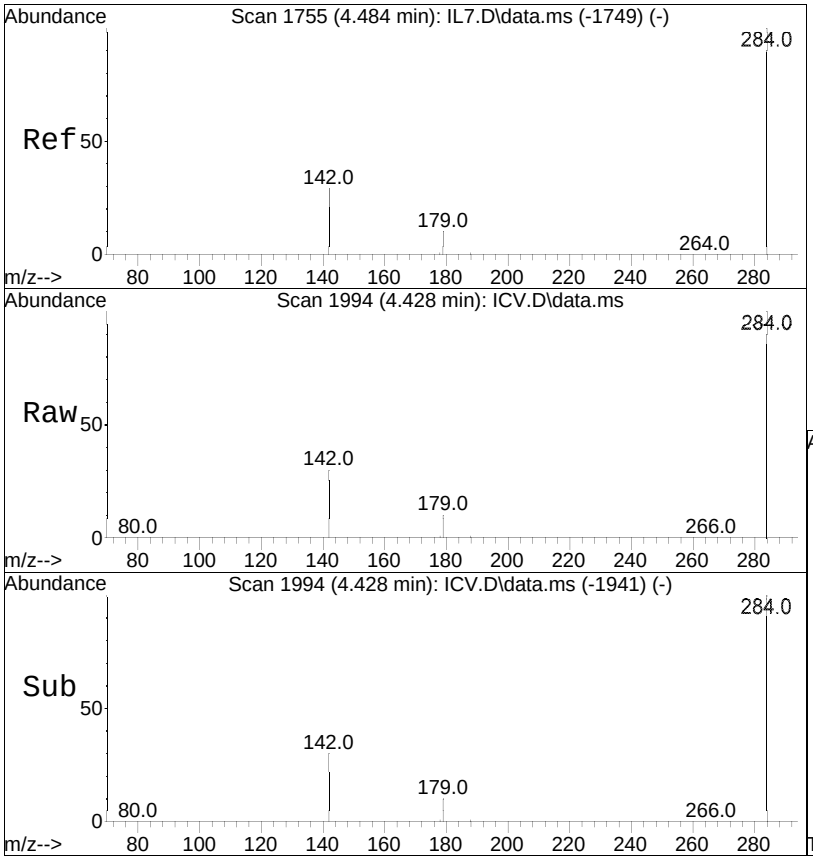


#23
4,6-Dinitro-o-cresol
Concen: 868.95 ng/ml
RT: 4.140 min Scan# 1823
Delta R.T. -0.002 min
Lab File: ICV.D
Acq: 07 Dec 2023 03:59 pm

Tgt Ion:198 Resp: 5185

Ion	Ratio	Lower	Upper
198	100		
105	34.4	32.2	48.4

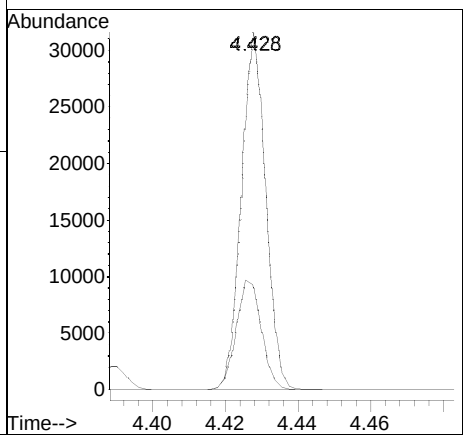


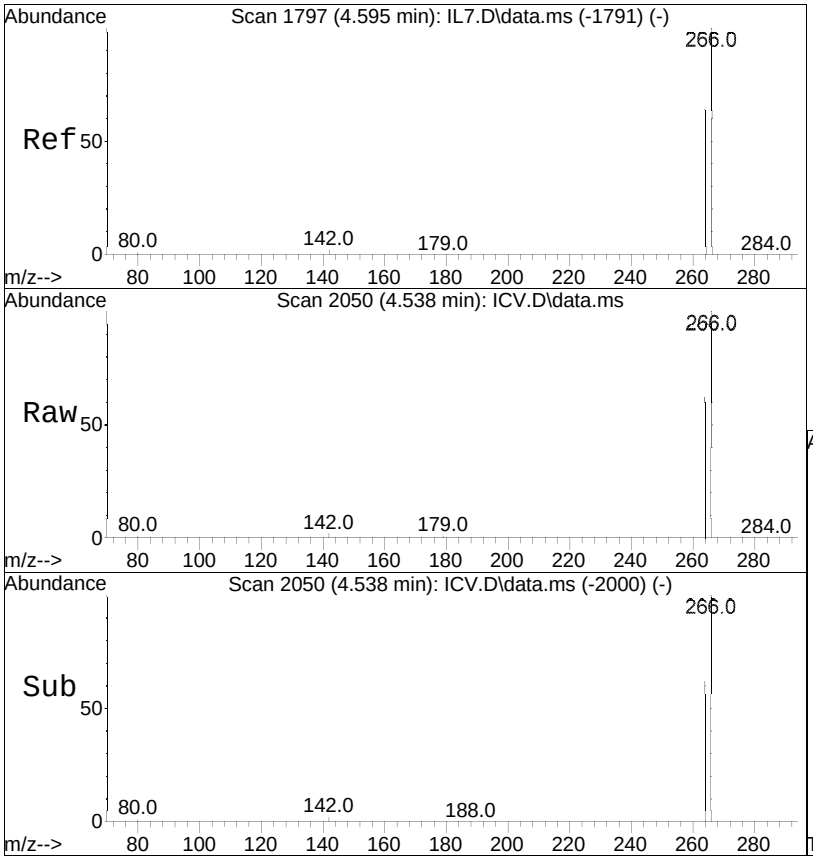


#24
Hexachlorobenzene
Concen: 1070.97 ng/ml
RT: 4.428 min Scan# 1994
Delta R.T. -0.002 min
Lab File: ICV.D
Acq: 07 Dec 2023 03:59 pm

Tgt Ion:284 Resp: 14437

Ion	Ratio	Lower	Upper
284	100		
142	32.2	26.9	40.3

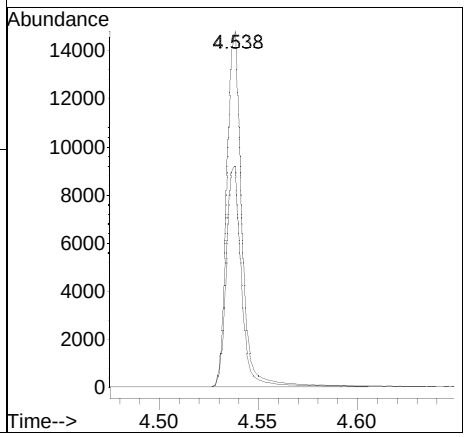


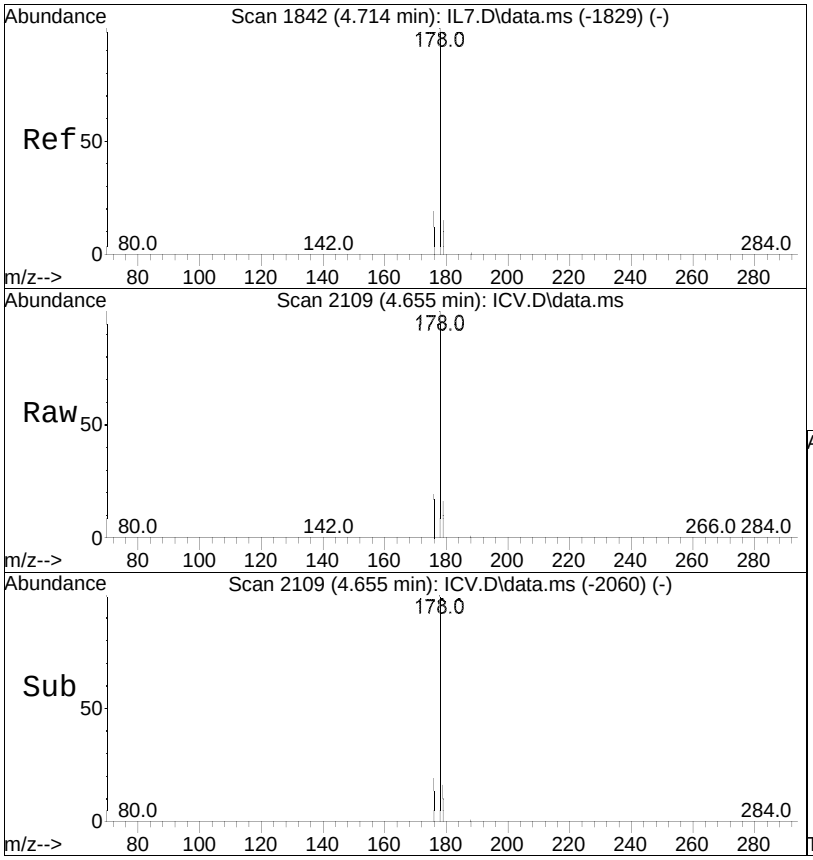


#25
Pentachlorophenol
Concen: 905.88 ng/ml
RT: 4.538 min Scan# 2050
Delta R.T. -0.002 min
Lab File: ICV.D
Acq: 07 Dec 2023 03:59 pm

Tgt Ion:266 Resp: 7716

Ion	Ratio	Lower	Upper
266	100		
264	63.2	50.7	76.1

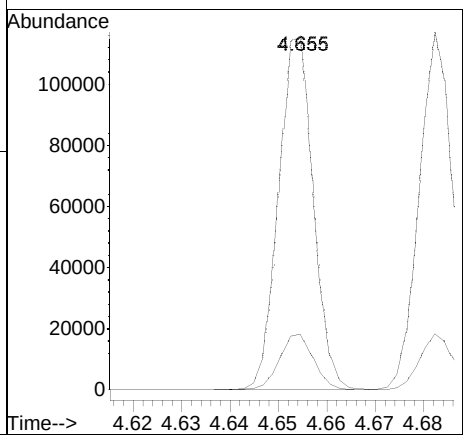


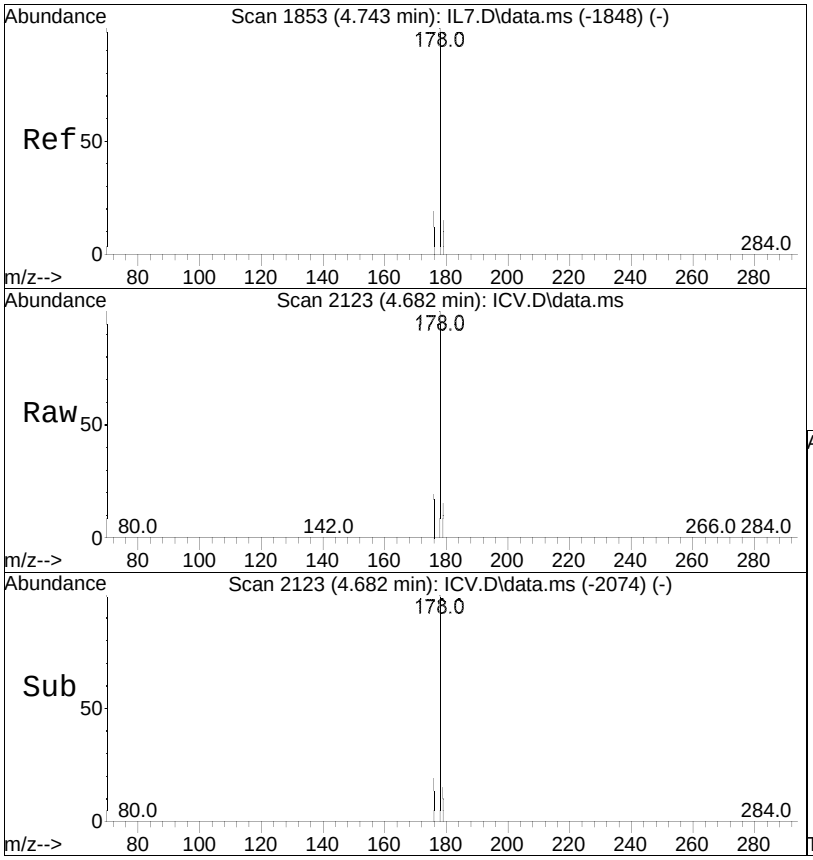


#26
Phenanthrene
Concen: 1083.66 ng/ml
RT: 4.655 min Scan# 2109
Delta R.T. -0.002 min
Lab File: ICV.D
Acq: 07 Dec 2023 03:59 pm

Tgt Ion:178 Resp: 57399

Ion	Ratio	Lower	Upper
178	100		
179	15.4	12.3	18.5

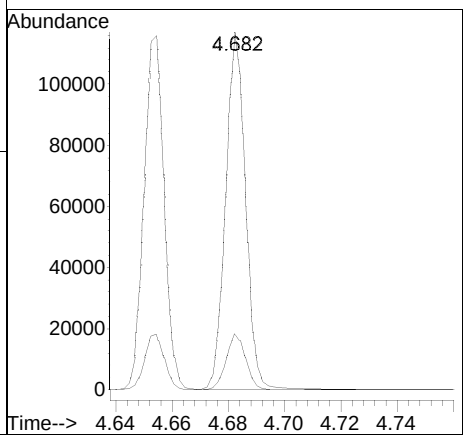


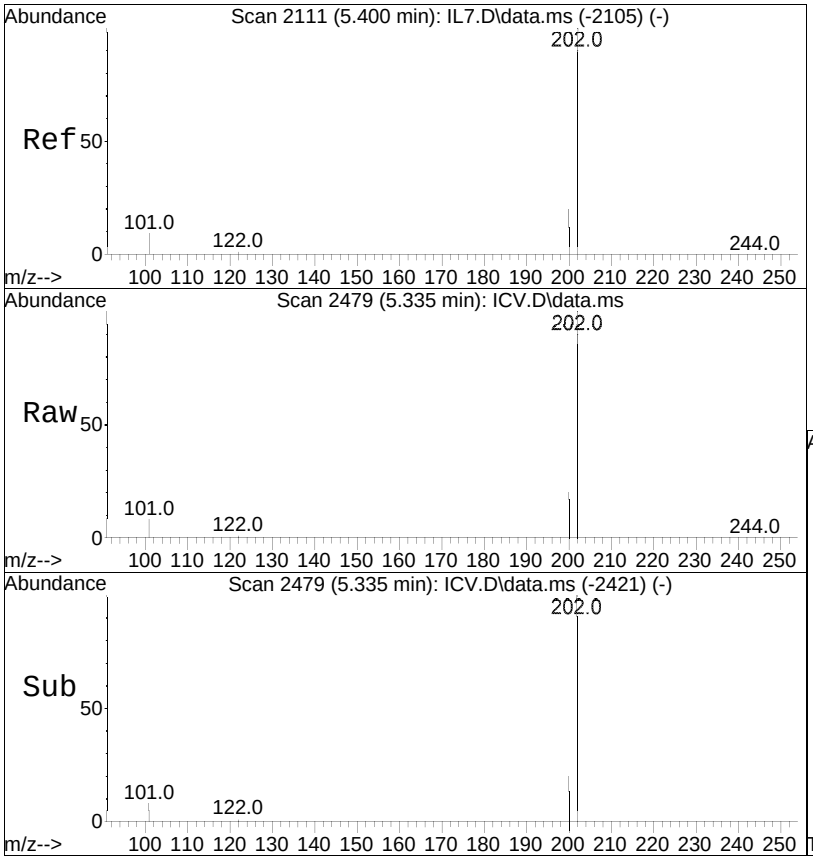


#27
Anthracene
Concen: 1088.58 ng/ml
RT: 4.682 min Scan# 2123
Delta R.T. -0.003 min
Lab File: ICV.D
Acq: 07 Dec 2023 03:59 pm

Tgt Ion:178 Resp: 57179

Ion	Ratio	Lower	Upper
178	100		
179	15.3	12.2	18.4

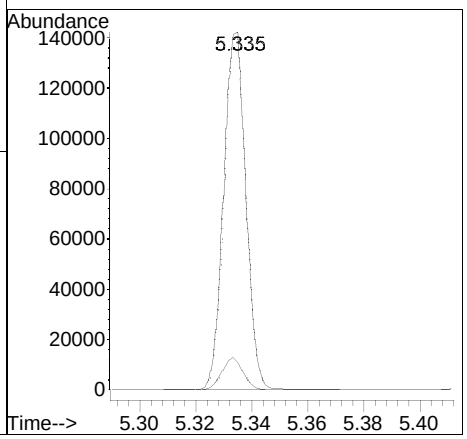


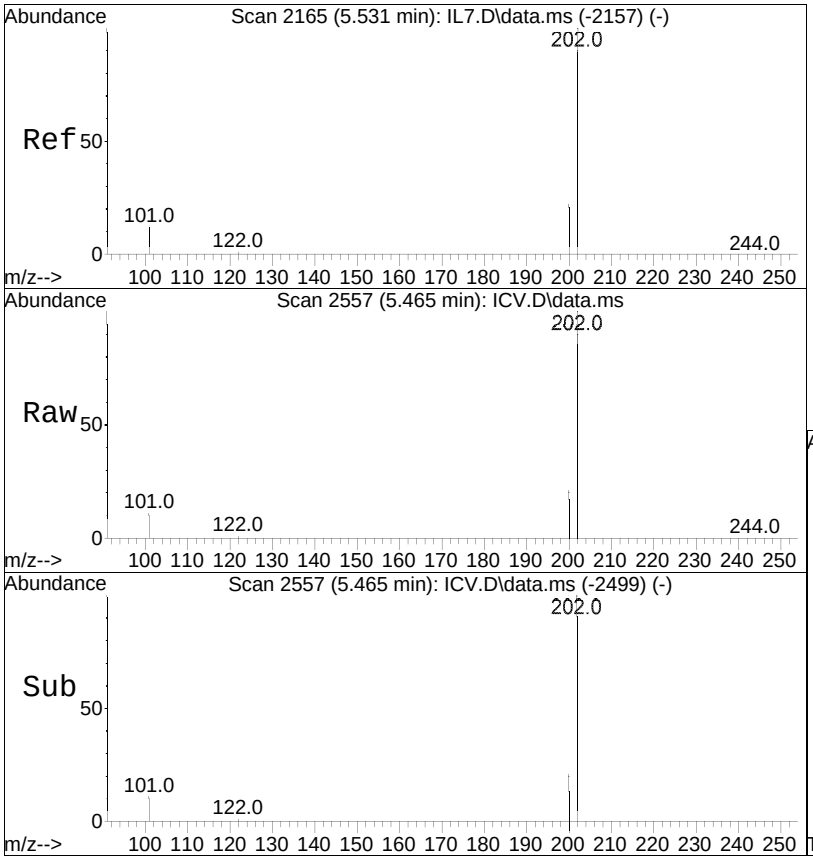


#28
Fluoranthene
Concen: 1100.58 ng/ml
RT: 5.335 min Scan# 2479
Delta R.T. -0.003 min
Lab File: ICV.D
Acq: 07 Dec 2023 03:59 pm

Tgt Ion:202 Resp: 76831

Ion	Ratio	Lower	Upper
202	100		
101	8.6	8.3	12.5

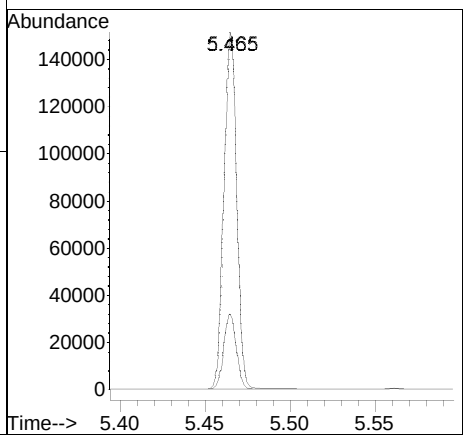


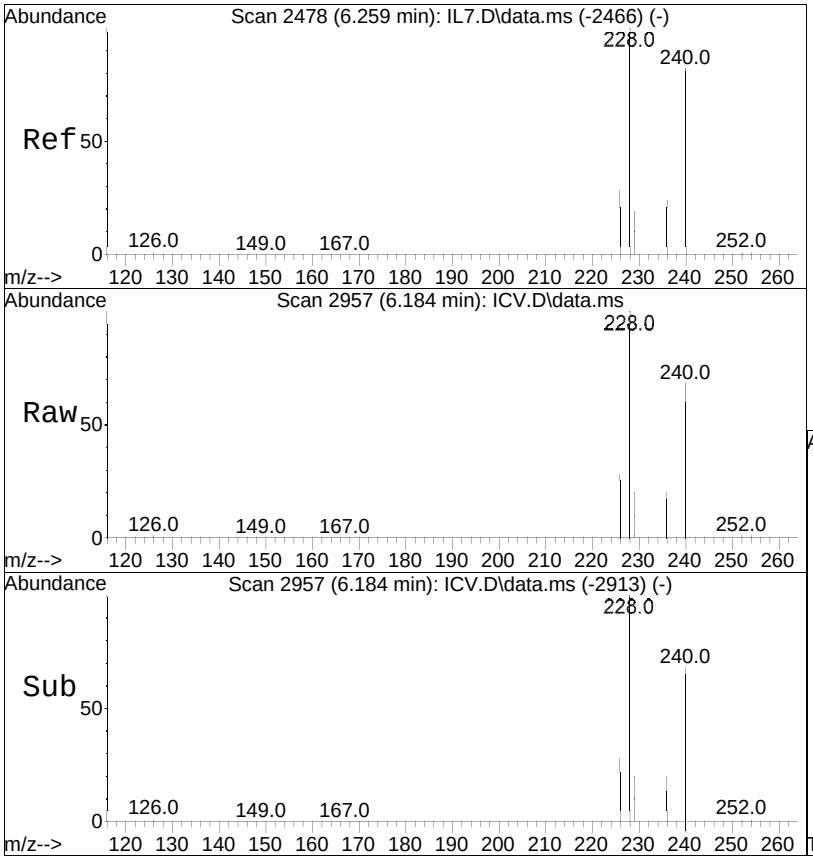


#29
Pyrene
Concen: 1085.80 ng/ml
RT: 5.465 min Scan# 2557
Delta R.T. -0.003 min
Lab File: ICV.D
Acq: 07 Dec 2023 03:59 pm

Tgt Ion:202 Resp: 77872

Ion	Ratio	Lower	Upper
202	100		
200	21.2	17.3	25.9

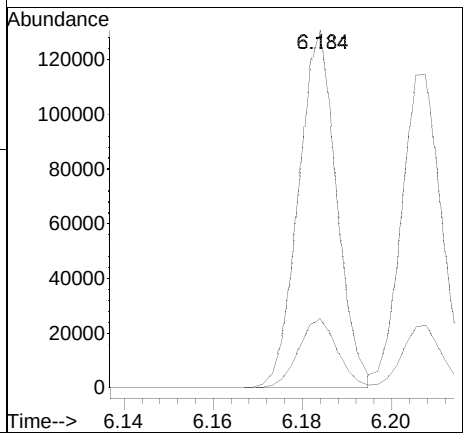


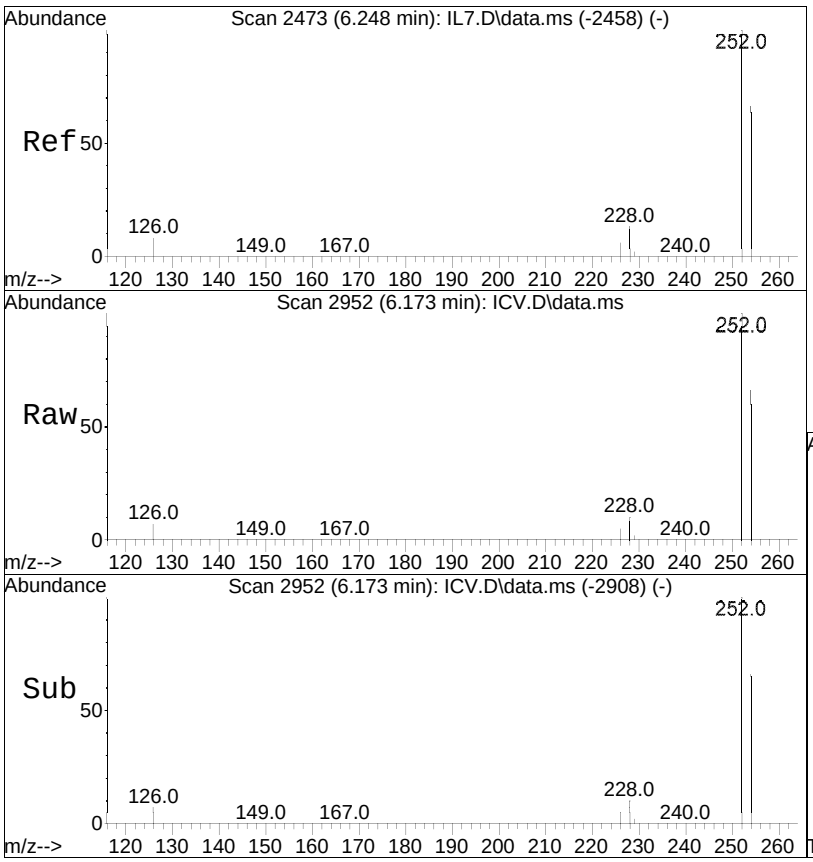


#32
Benzo[a]anthracene
Concen: 1130.17 ng/ml
RT: 6.184 min Scan# 2957
Delta R.T. -0.006 min
Lab File: ICV.D
Acq: 07 Dec 2023 03:59 pm

Tgt Ion:228 Resp: 77469

Ion	Ratio	Lower	Upper
228	100		
229	19.7	15.6	23.4

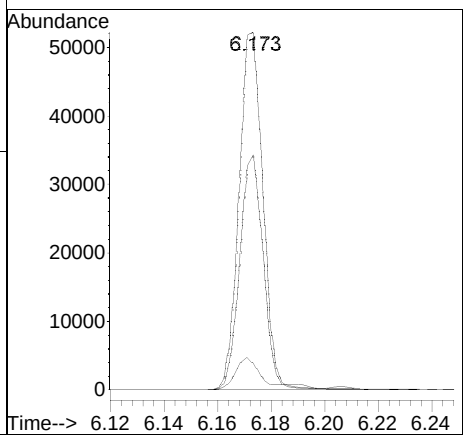


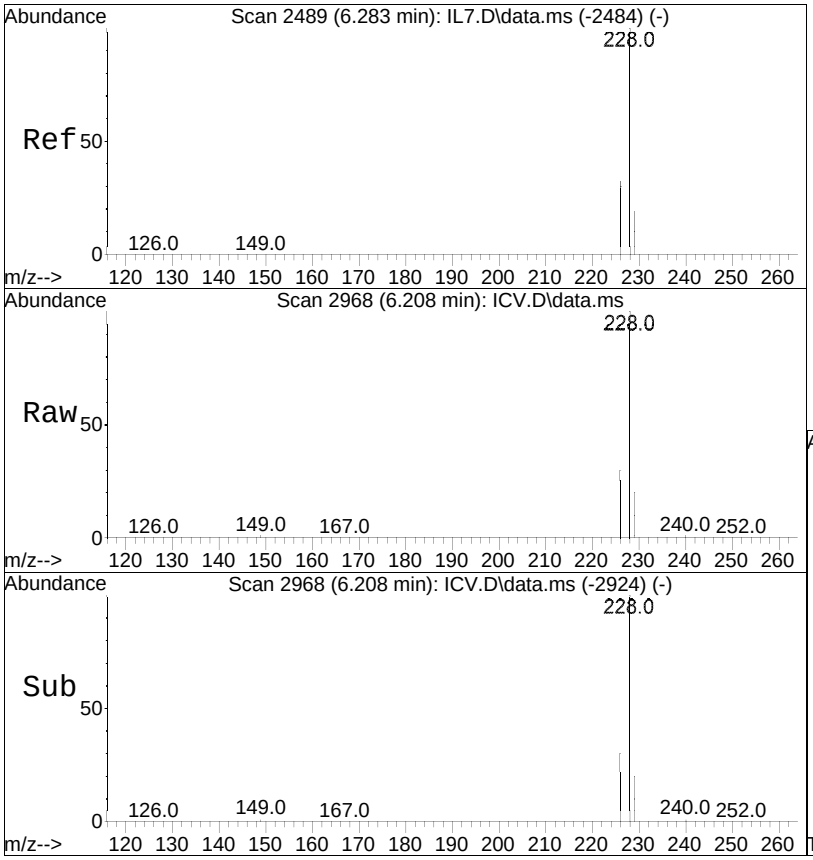


#33
3,3'-Dichlorobenzidine
Concen: 1025.78 ng/ml
RT: 6.173 min Scan# 2952
Delta R.T. -0.007 min
Lab File: ICV.D
Acq: 07 Dec 2023 03:59 pm

Tgt Ion:252 Resp: 31712

Ion	Ratio	Lower	Upper
252	100		
126	8.9	7.7	11.5
254	64.8	52.0	78.0

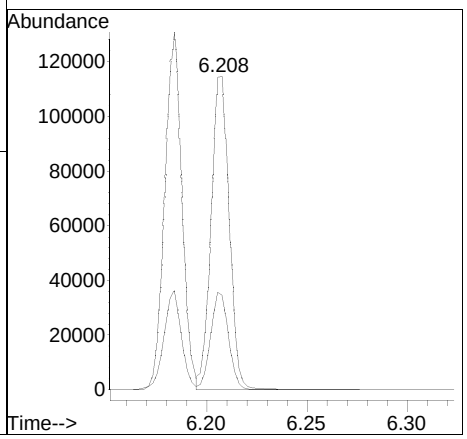


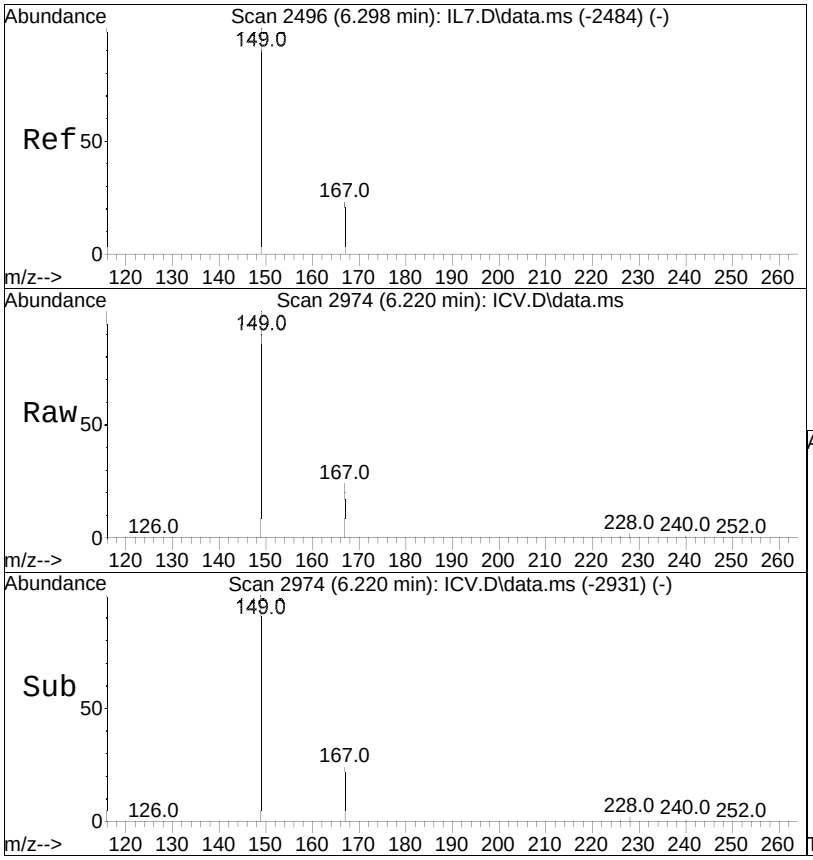


#34
Chrysene
Concen: 1060.55 ng/ml
RT: 6.208 min Scan# 2968
Delta R.T. -0.006 min
Lab File: ICV.D
Acq: 07 Dec 2023 03:59 pm

Tgt Ion:228 Resp: 71624

Ion	Ratio	Lower	Upper
228	100		
226	30.7	24.5	36.7

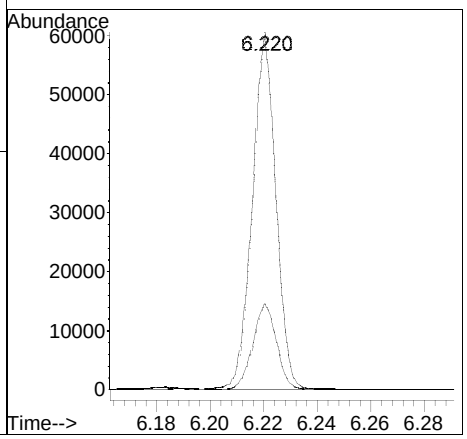


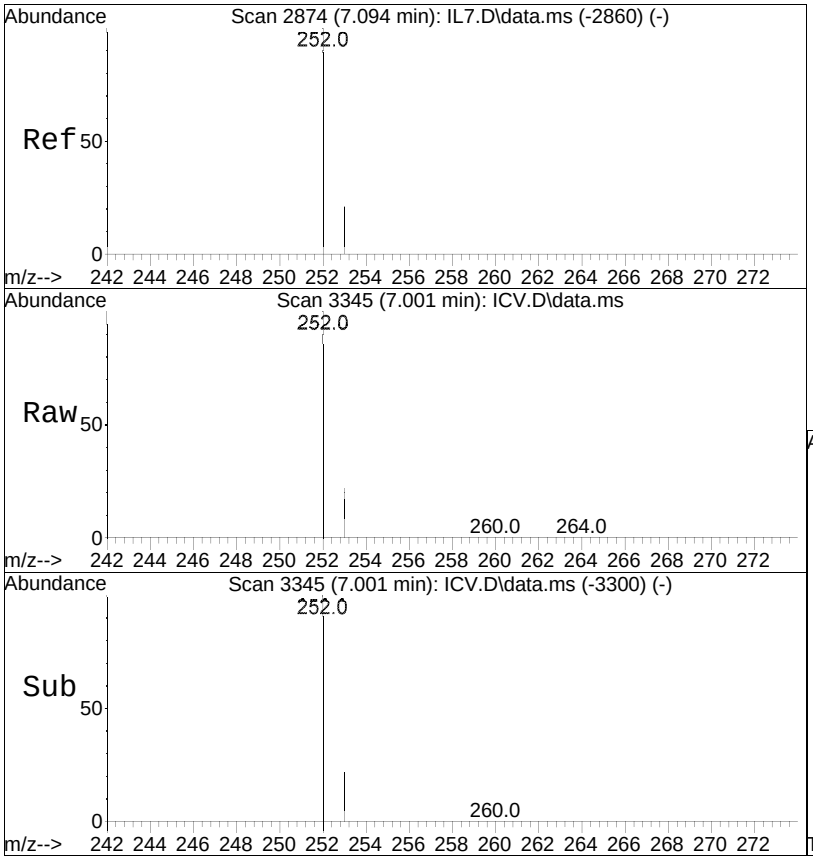


#35
Bis(2-ethylhexyl)phthalate
Concen: 813.98 ng/ml
RT: 6.220 min Scan# 2974
Delta R.T. -0.009 min
Lab File: ICV.D
Acq: 07 Dec 2023 03:59 pm

Tgt Ion:149 Resp: 36205

Ion	Ratio	Lower	Upper
149	100		
167	24.2	18.5	27.7

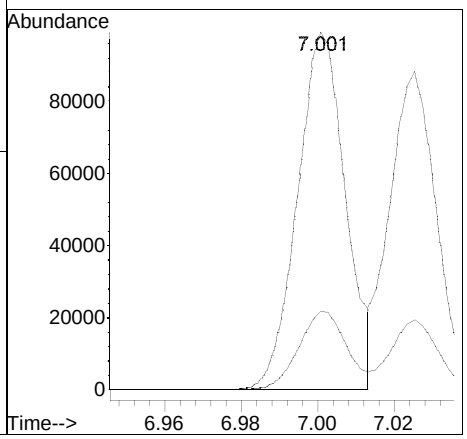


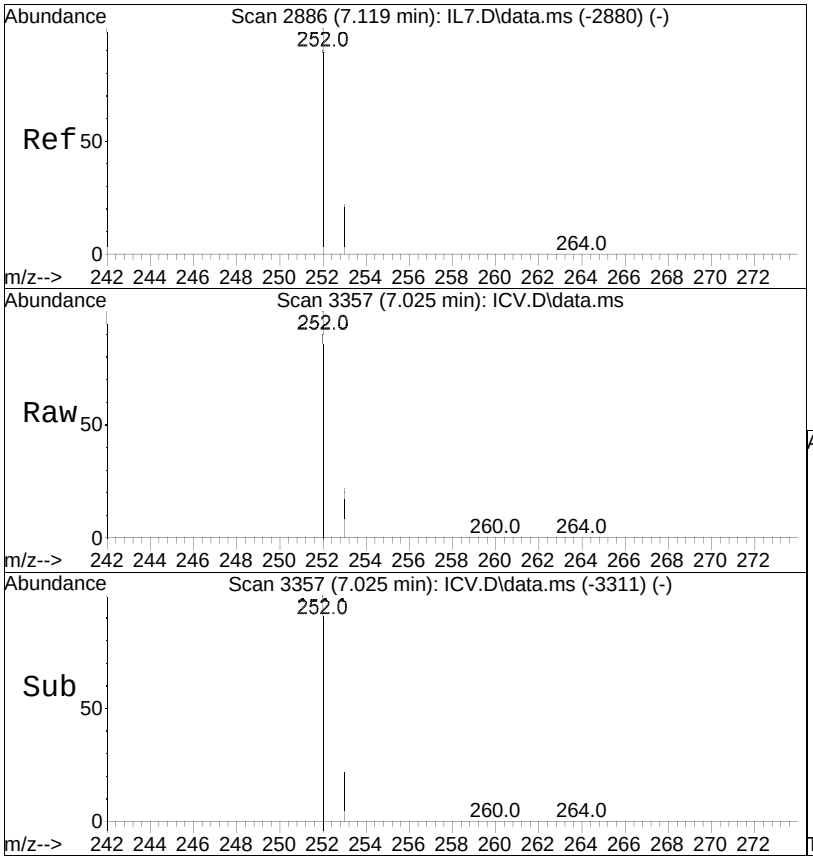


#37
Benzo[b]fluoranthene
Concen: 1104.62 ng/ml
RT: 7.001 min Scan# 3345
Delta R.T. -0.008 min
Lab File: ICV.D
Acq: 07 Dec 2023 03:59 pm

Tgt Ion:252 Resp: 86223

Ion	Ratio	Lower	Upper
252	100		
253	21.8	17.3	25.9

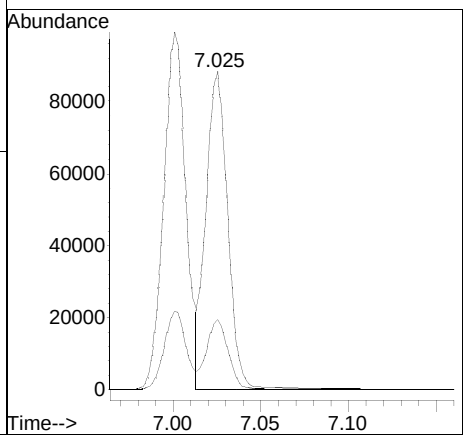


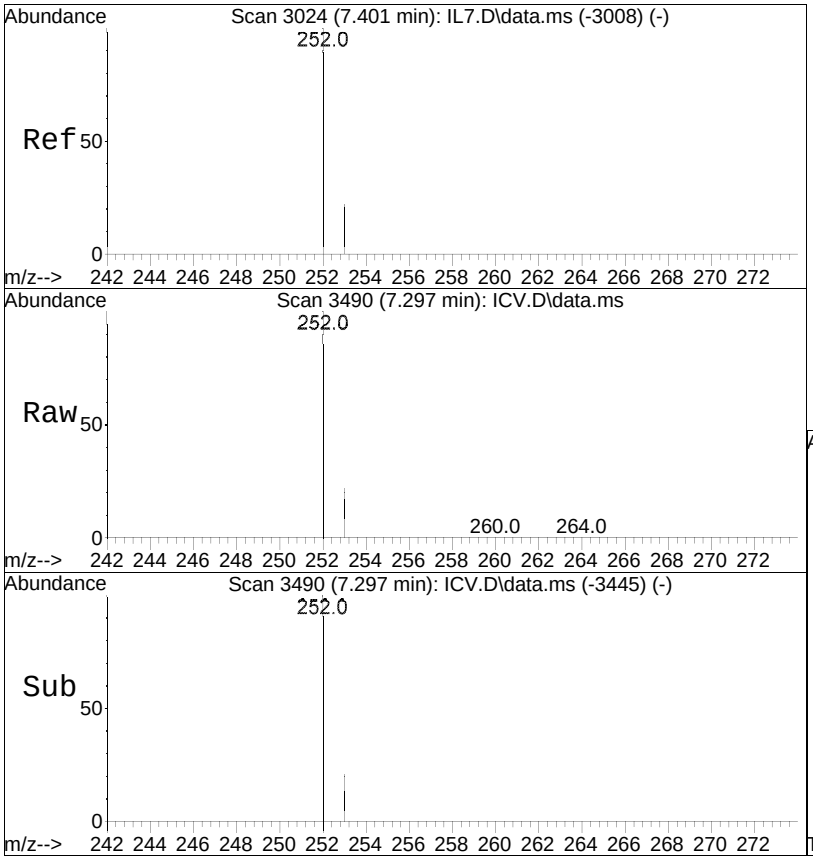


#38
Benzo[k]fluoranthene
Concen: 1021.78 ng/ml
RT: 7.025 min Scan# 3357
Delta R.T. -0.006 min
Lab File: ICV.D
Acq: 07 Dec 2023 03:59 pm

Tgt Ion:252 Resp: 75734

Ion	Ratio	Lower	Upper
252	100		
253	22.0	17.4	26.2

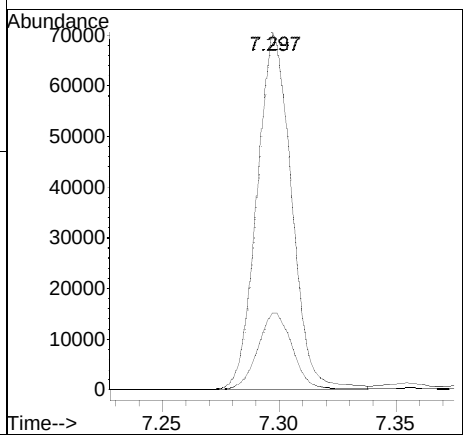


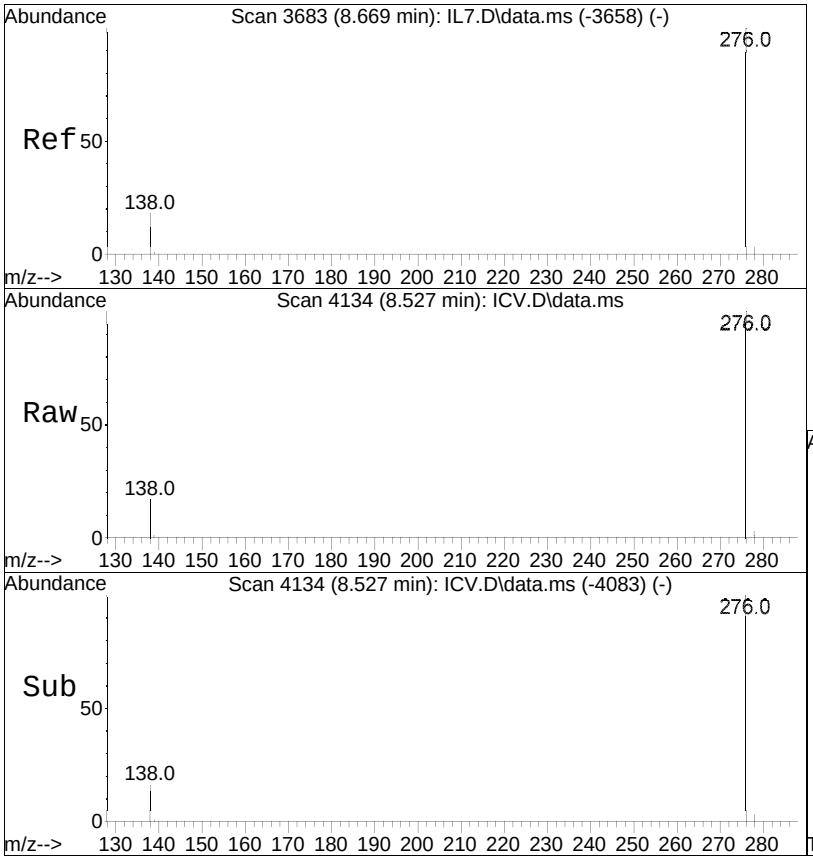


#39
Benzo[a]pyrene
Concen: 1037.41 ng/ml
RT: 7.297 min Scan# 3490
Delta R.T. -0.008 min
Lab File: ICV.D
Acq: 07 Dec 2023 03:59 pm

Tgt Ion:252 Resp: 71277

Ion	Ratio	Lower	Upper
252	100		
253	21.7	17.4	26.0

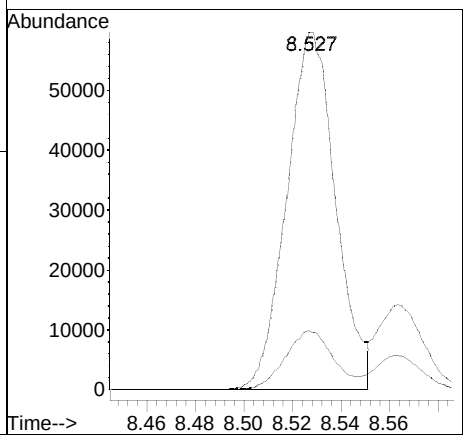


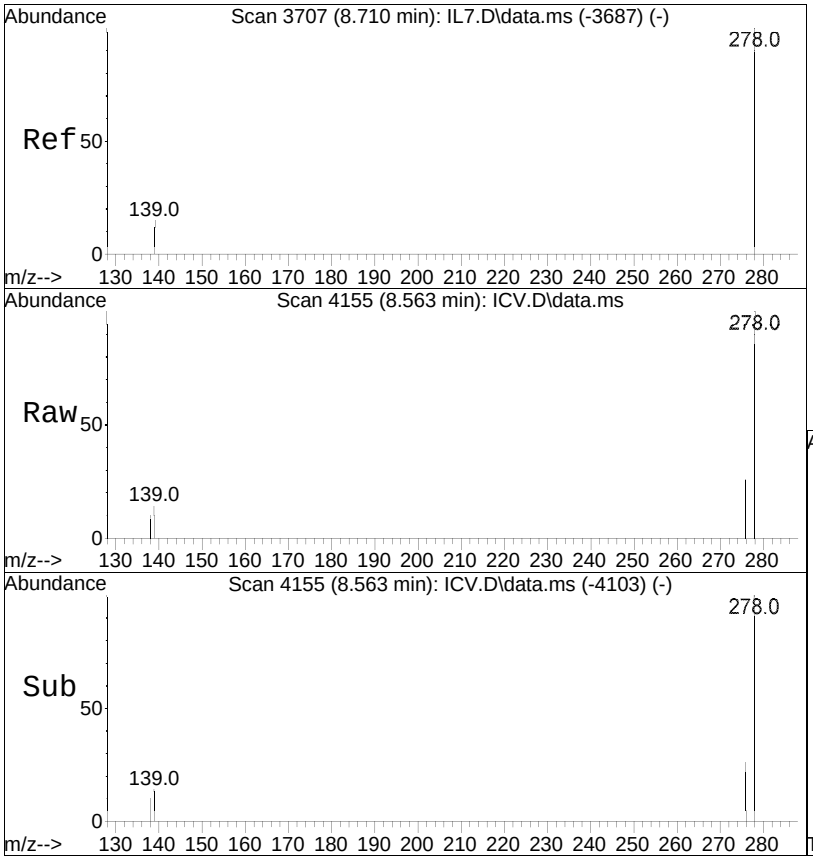


#40
Indeno[1,2,3-cd]pyrene
Concen: 1110.34 ng/ml
RT: 8.527 min Scan# 4134
Delta R.T. -0.011 min
Lab File: ICV.D
Acq: 07 Dec 2023 03:59 pm

Tgt Ion:276 Resp: 82912

Ion	Ratio	Lower	Upper
276	100		
138	16.1	14.8	22.2

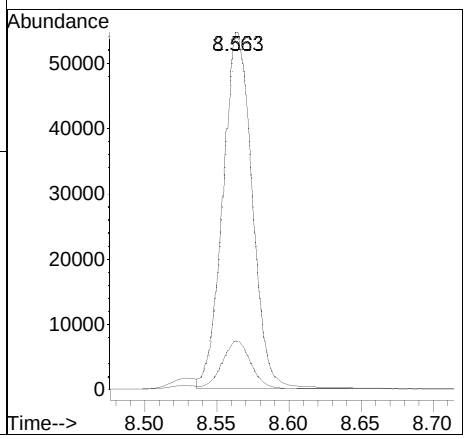


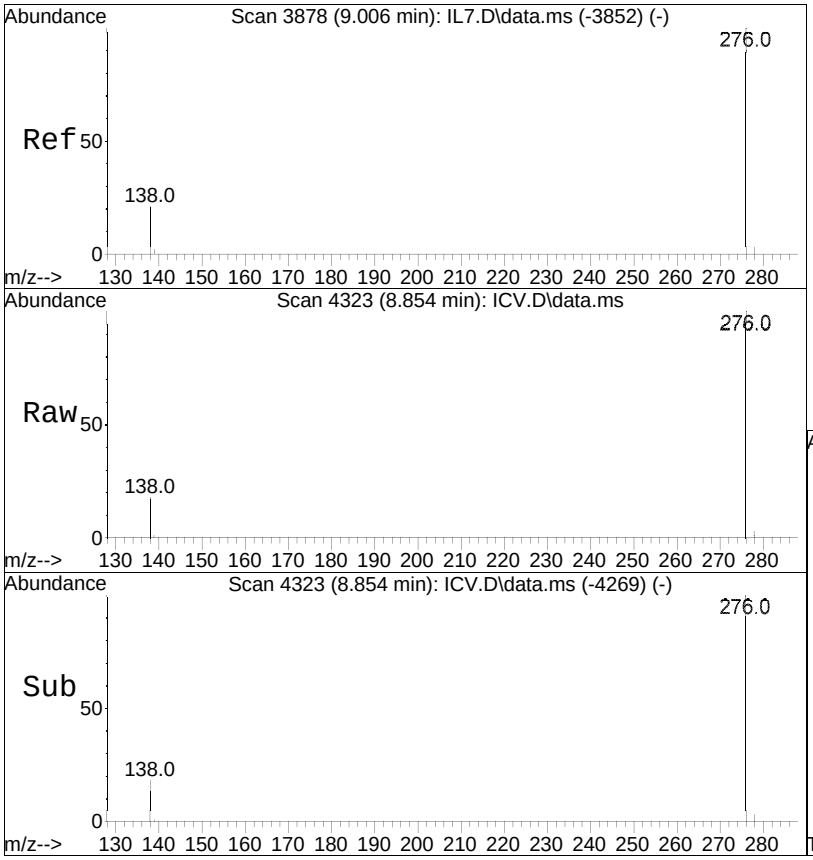


#41
Dibenzo[a,h]anthracene
Concen: 1100.81 ng/ml
RT: 8.563 min Scan# 4155
Delta R.T. -0.011 min
Lab File: ICV.D
Acq: 07 Dec 2023 03:59 pm

Tgt Ion:278 Resp: 76479

Ion	Ratio	Lower	Upper
278	100		
139	13.4	12.2	18.4

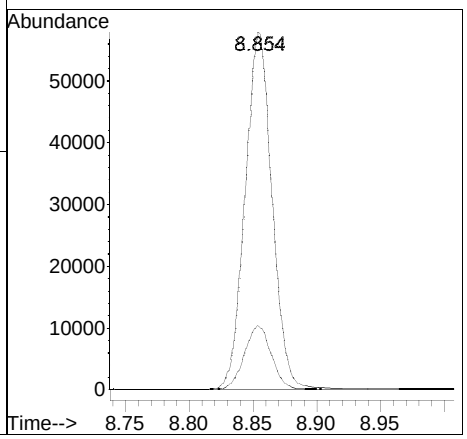




#42
Benzo[g,h,i]perylene
Concen: 1103.05 ng/ml
RT: 8.854 min Scan# 4323
Delta R.T. -0.007 min
Lab File: ICV.D
Acq: 07 Dec 2023 03:59 pm

Tgt Ion:276 Resp: 83784

Ion	Ratio	Lower	Upper
276	100		
138	18.1	16.8	25.2



Manual Integration Report

Data Path	: I:\8270SIM\sv119\231207nLVQ	Method	: SIM-LVI_231207n_sv119.M
Data File	: ICV.D	Operator	: sv119:dv
Date Inj'd	: 12/7/2023 3:59 pm	Instrument	: SV119
Sample	: CQICV,32,,1.0 Lot#10193	Quant Date	: 12/8/2023 2:09 pm

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

Response Factor Report SV128

Method Path : I:\8270SIM\SV128\231211LVIical\
Method File : SIM-LVI_231211_sv128.M
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Fri Dec 15 14:46:27 2023
Response Via : Initial Calibration

Calibration Files
L1 =IL1a.D L2 =IL2.D L3 =IL3.D L4 =IL4.D L5 =IL5.D L6 =IL6.D L7 =IL7.D L8 =IL8.D
L9 =IL9.D L10 =IL10.D

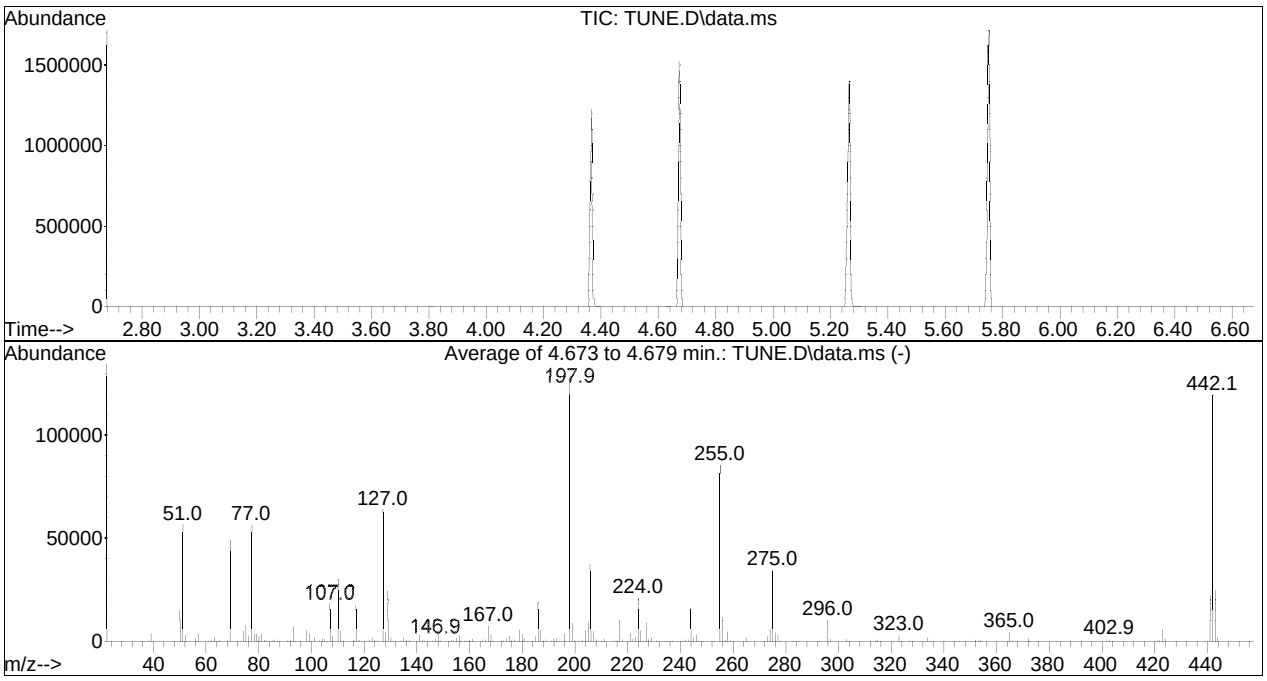
		Compound	L1	L2	L3	L4	L5	L6	L7	L8	L9	L10	Avg	%RSD
1)	i	1,4-Dichlorobenzene-d4	ISTD											
2)	s	2-Fluorophenol	0.817	0.995	1.007	0.984	1.029	1.065	1.064	1.060	1.045	1.007		7.69
3)	s	Phenol-d6	1.051	1.144	1.147	1.149	1.172	1.246	1.241	1.222	1.222	1.177		5.34
4)	T	bis(2-Chloroethyl)ether	0.934	0.995	1.007	1.025	1.000	1.017	1.039	1.025	1.007	1.005		3.00
5)	T	n-Nitrosodi-n-propylamine			0.647	0.656	0.663	0.675	0.743	0.761	0.729	0.743	0.702	6.60
6)	t	Hexachloroethane			0.448	0.445	0.497	0.488	0.492	0.492	0.488	0.471	0.478	4.36
7)	s	Nitrobenzene-d5	0.817	0.895	0.913	0.932	0.923	1.015	1.028	1.021	1.016	0.951		7.69
8)	i	Naphthalene-d8	ISTD											
9)	t	Naphthalene	1.009	1.040	1.028	1.033	1.042	1.051	1.042	1.004	0.984	1.026		2.14
10)	t	Hexachlorobutadiene			0.245	0.234	0.236	0.235	0.235	0.238	0.233	0.223	0.235	2.60
11)	t	2-Methylnaphthalene	0.606	0.635	0.628	0.660	0.655	0.689	0.697	0.668	0.660	0.655		4.43
12)	t	1-Methylnaphthalene			0.606	0.593	0.609	0.601	0.648	0.650	0.619	0.610	0.617	3.40
13)	s	2-Fluorobiphenyl	0.807	0.852	0.821	0.842	0.824	0.907	0.894	0.848	0.840	0.848		3.89
14)	t	2-Chloronaphthalene	0.673	0.722	0.683	0.713	0.698	0.754	0.754	0.713	0.710	0.713		3.90
15)	t	2,6-Dinitrotoluene				0.083	0.090	0.092	0.122	0.136	0.140	0.151	*Q	0.9997
16)	t	Acenaphthylene	0.976	0.996	0.959	1.030	0.995	1.140	1.165	1.123	1.128	1.057		7.66
17)	i	Acenaphthene-d10	ISTD											
18)	t	Acenaphthene			1.354	1.374	1.357	1.343	1.391	1.381	1.331	1.287	1.352	2.43
19)	t	2,4-Dinitrotoluene				0.185	0.204	0.213	0.278	0.312	0.329	0.342	*Q	0.9996
20)	t	Fluorene	1.279	1.301	1.308	1.352	1.326	1.459	1.453	1.405	1.399	1.365		4.90
21)	s	2,4,6-Tribromophenol			0.186	0.159	0.171	0.175	0.213	0.226	0.232	0.238	0.200	15.42
22)	i	Phenanthrene-d10	ISTD											
23)	T	4,6-Dinitro-o-cresol					0.050	0.056	0.068	0.080	0.082	0.085	*L	0.9989
24)	t	Hexachlorobenzene	0.287	0.266	0.260	0.278	0.267	0.268	0.265	0.271	0.259	0.242	0.266	4.47
25)	t	Pentachlorophenol			0.065	0.069	0.075	0.092	0.115	0.142			*Q	0.9994
26)	t	Phenanthrene	1.181	1.118	1.084	1.073	1.063	1.089	1.091	1.042	0.996	1.082		4.70
27)	t	Anthracene	1.092	1.027	1.000	1.014	1.015	1.072	1.106	1.064	1.017	1.045		3.71
28)	t	Fluoranthene	1.151	1.131	1.035	1.150	1.152	1.253	1.275	1.273	1.275	1.188		7.13
29)	t	Pyrene	1.210	1.157	1.084	1.134	1.119	1.345	1.359	1.336	1.322	1.230		9.02
30)	s	4-Terphenyl-d14	0.886	0.832	0.702	0.745	0.726	0.905	0.920	0.897	0.889	0.833		10.33
31)	i	Chrysene-d12	ISTD											
32)	t	Benzo[a]anthracene	2.630	1.800	1.496	1.470	1.404	1.422	1.470	1.423	1.434		*L	0.9999
33)	t	3,3'-Dichlorobenzidine				0.446	0.461	0.523	0.515	0.561	0.578	0.576	*L	0.9997
34)	t	Chrysene	1.367	1.427	1.407	1.395	1.389	1.426	1.395	1.345	1.259	1.379		3.78
35)	T	bis(2-Ethylhexyl)phthalate					0.502	0.515	0.606	0.756	0.808	0.841	*Q	0.9992
36)	i	Perylene-d12	ISTD											
37)	t	Benzo[b]fluora...	1.149	1.175	1.189	1.269	1.207	1.255	1.335	1.272	1.298	1.239		4.99
38)	t	Benzo[k]fluora...	1.090	1.024	1.066	1.082	1.137	1.185	1.281	1.299	1.210	1.153		8.42
39)	t	Benzo[a]pyrene	1.002	1.011	1.004	1.051	1.072	1.133	1.198	1.189	1.157	1.091		7.32
40)	t	Indeno[1,2,3-c...	1.031	1.120	1.075	1.058	1.095	1.134	1.133	1.107	1.063	1.091		3.32
41)	t	Dibenzo[a,h]anthracene	1.002	1.011	0.969	0.996	1.069	1.164	1.160	1.120	1.043	1.059		6.93
42)	t	Benzo[g,h,i]pe...	1.120	1.147	1.145	1.117	1.178	1.224	1.169	1.068	1.035	1.134		5.06

(#) = Out of Range

Data Path : I:\8270SIM\SV128\231211LVIical\
Data File : TUNE.D
Acq On : 11 Dec 2023 01:03 pm
Operator : SV128:dv
Sample : TUNE
Misc : WG1864557,,ical
ALS Vial : 48 Sample Multiplier: 1

Integration File: rteint.p

Method : I:\8270SIM\SV128\231211LVIical\SIM-LVI_231211_sv128.M
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Fri Dec 15 14:46:27 2023



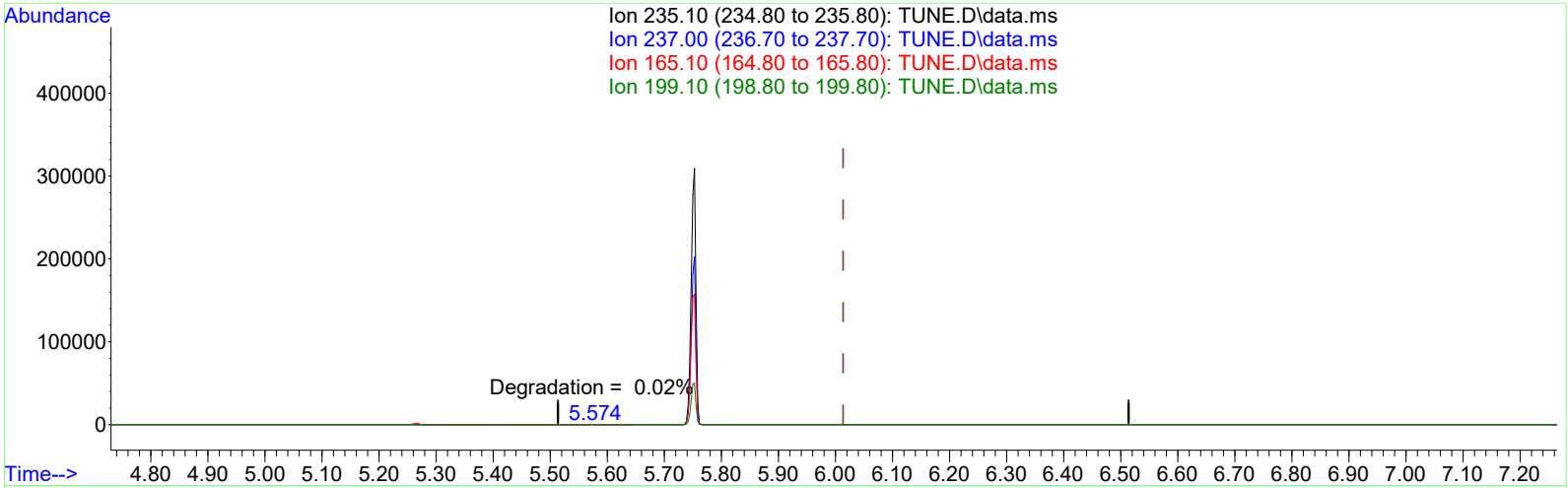
Spectrum Information: Average of 4.673 to 4.679 min.

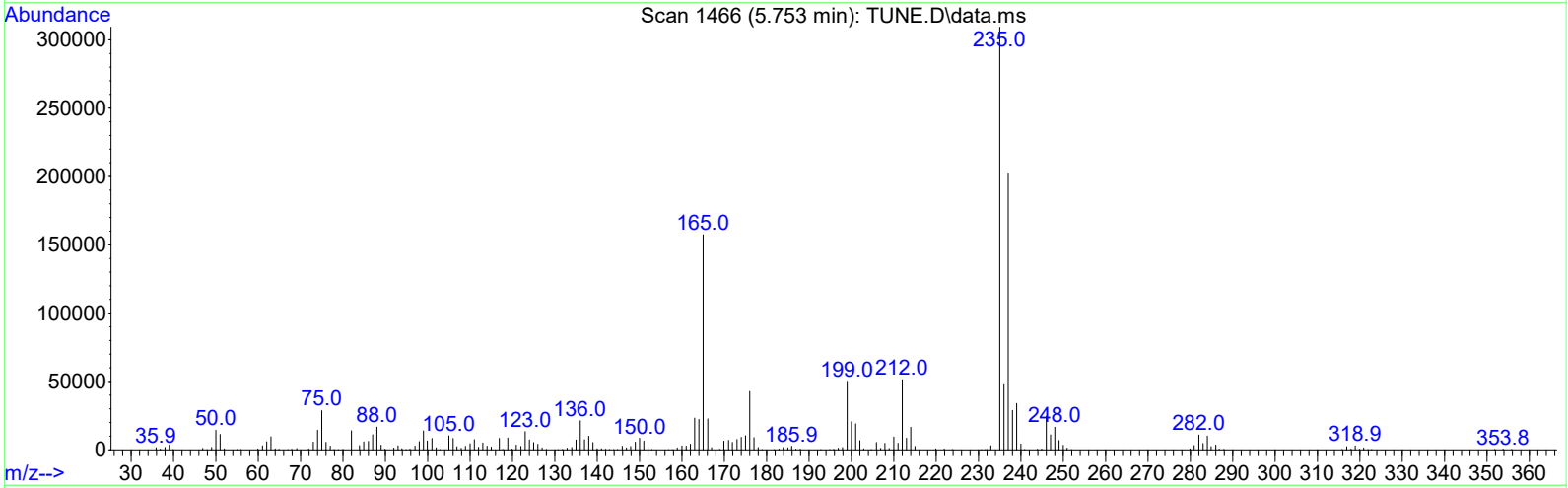
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	44.3	56645	PASS
68	69	0.00	2	1.6	806	PASS
69	69	100	100	100.0	48989	PASS
70	69	0.00	2	0.5	226	PASS
127	198	10	80	50.0	63984	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	127888	PASS
199	198	5	9	6.8	8746	PASS
275	198	10	60	27.1	34715	PASS
365	198	1	100	3.6	4548	PASS
441	442	0.01	24	18.5	22151	PASS
442	198	50	100	93.6	119712	PASS
443	442	15	24	20.5	24488	PASS

Quantitation Report (Qedit)

Data Path : I:\8270SIM\SV128\231211LVIical\
Data File : TUNE.D
Acq On : 11 Dec 2023 01:03 pm
Operator : SV128:dv
Sample : TUNE
Misc : WG1864557,,ical
ALS Vial : 48 Sample Multiplier: 1

Quant Time: Dec 11 13:22:21 2023
Quant Method : I:\8270SIM\SV128\231211LVIical\dftppsv128.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Nov 10 08:59:52 2023
Response via : Continuing Cal File: C:\ENVDEMO\BNADATA\DLWB002.D





TIC: TUNE.D\data.ms

(6) ddt (T)

5.753min (-0.261) 28.85

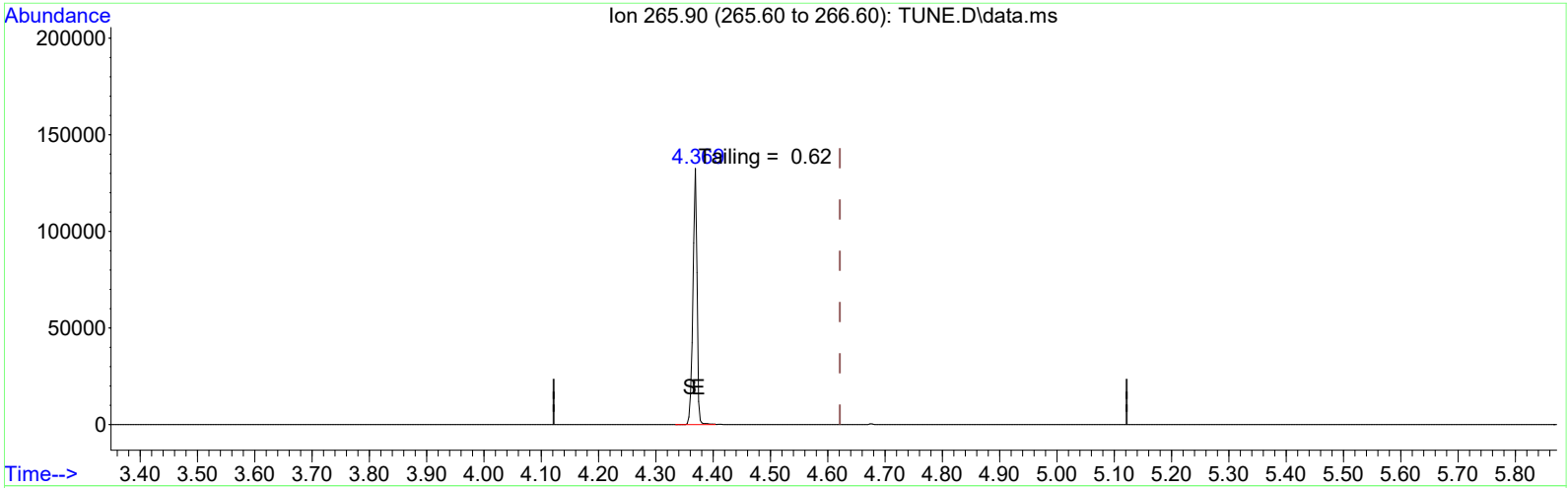
response 175838

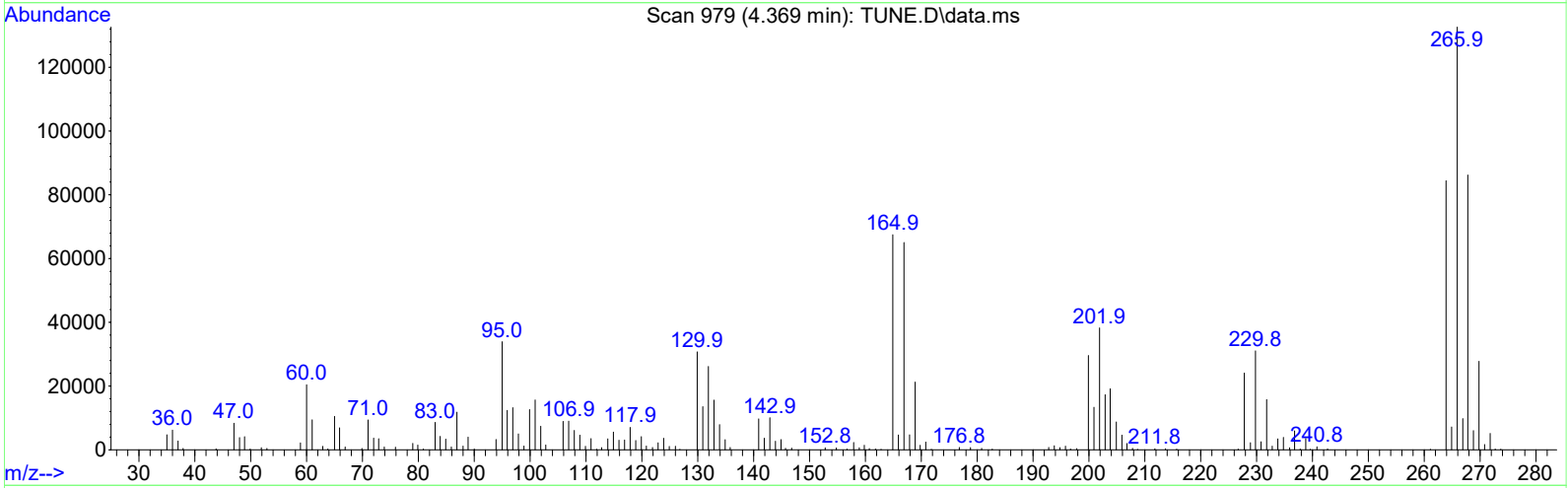
Ion	Exp%	Act%
235.10	100.00	100.00
237.00	65.60	64.76
165.10	53.30	52.57
199.10	17.10	16.62

Quantitation Report (Qedit)

Data Path : I:\8270SIM\SV128\231211LVIical\
Data File : TUNE.D
Acq On : 11 Dec 2023 01:03 pm
Operator : SV128:dv
Sample : TUNE
Misc : WG1864557,,ical
ALS Vial : 48 Sample Multiplier: 1

Quant Time: Dec 11 13:22:21 2023
Quant Method : I:\8270SIM\SV128\231211LVIical\dftppsv128.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Nov 10 08:59:52 2023
Response via : Continuing Cal File: C:\ENVDEMO\BNADATA\DLWB002.D





TIC: TUNE.D\data.ms

(1) pentachlorophenol (T)

4.369min (-0.253) 31.32

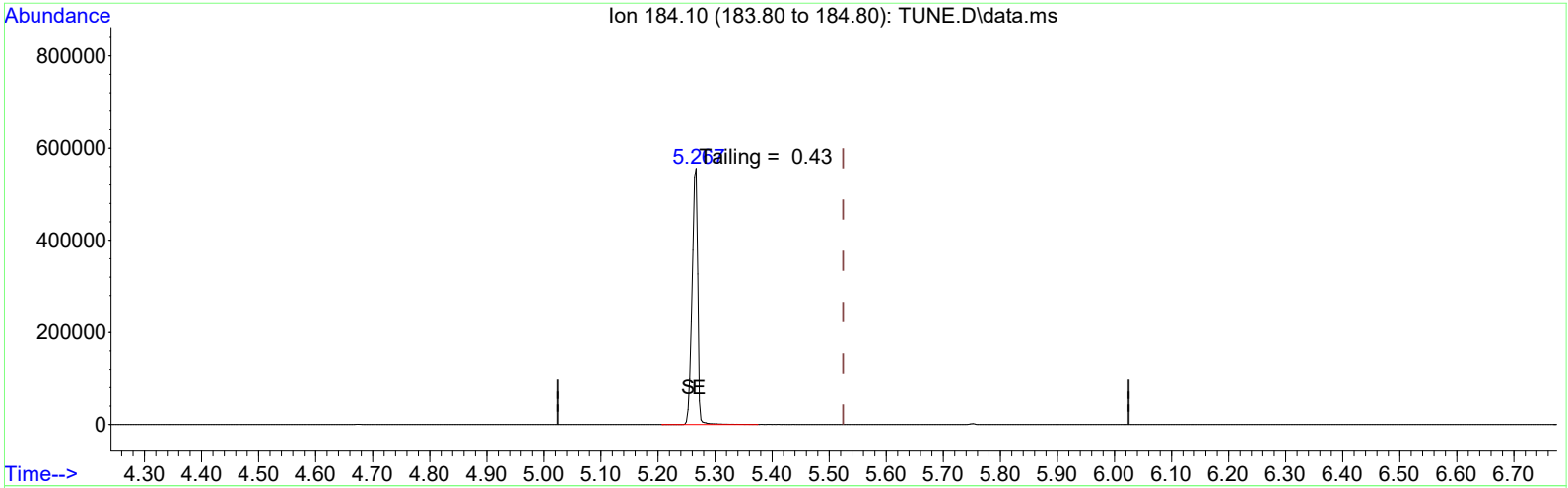
response 65782

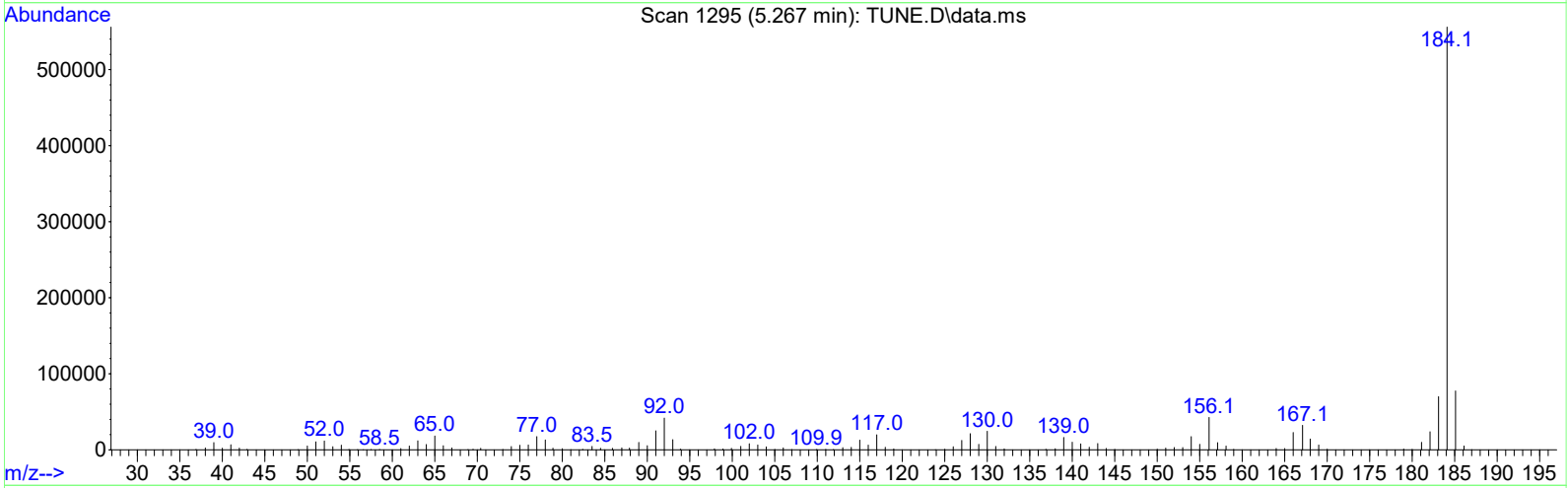
Ion	Exp%	Act%
265.90	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\8270SIM\SV128\231211LVIical\
Data File : TUNE.D
Acq On : 11 Dec 2023 01:03 pm
Operator : SV128:dv
Sample : TUNE
Misc : WG1864557,,ical
ALS Vial : 48 Sample Multiplier: 1

Quant Time: Dec 11 13:22:21 2023
Quant Method : I:\8270SIM\SV128\231211LVIical\dftppsv128.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Nov 10 08:59:52 2023
Response via : Continuing Cal File: C:\ENVDEMO\BNADATA\DLWB002.D





TIC: TUNE.D\data.ms

(3) benzidine (T)

5.267min (-0.258) 37.75

response 384268

Ion	Exp%	Act%
184.10	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV128\231211LVIical\
Data File : IL10.D
Acq On : 11 Dec 2023 01:27 pm
Operator : SV128:dv
Sample : IL10,32,, 20.0 Lot#10186
Misc : WG1864557,,ical
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 18 10:40:51 2023
Quant Method : I:\8270SIM\SV128\231211LVIical\SIM-LVI_231211_sv128.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Dec 15 13:51:47 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\SV128\231211LVIical\IL7.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	1.990	152	3478	4000.000	ng/ml	#-0.02
Standard Area 1 = 2982			Recovery = 116.63%			
8) Naphthalene-d8	2.657	136	12243	4000.000	ng/ml	-0.02
Standard Area 1 = 10566			Recovery = 115.87%			
17) Acenaphthene-d10	3.646	164	7153M1	4000.000	ng/ml	0.00
Standard Area 1 = 6070			Recovery = 117.84%			
22) Phenanthrene-d10	4.502	188	16546	4000.000	ng/ml	0.02
Standard Area 1 = 13526			Recovery = 122.33%			
31) Chrysene-d12	6.055	240	16227	4000.000	ng/ml	0.04
Standard Area 1 = 12766			Recovery = 127.11%			
36) Perylene-d12	7.167	264	17481M1	4000.000	ng/ml	0.06
Standard Area 1 = 15405			Recovery = 113.48%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.394	112	18175	20752.029	ng/ml	-0.03
Spiked Amount 5000.000	Range 15 - 110		Recovery = 415.04%#			
3) Phenol-d6	1.807	99	21251	20761.969	ng/ml	-0.02
Spiked Amount 5000.000	Range 15 - 110		Recovery = 415.24%#			
7) Nitrobenzene-d5	2.272	82	17667	21358.142	ng/ml	-0.02
Spiked Amount 2500.000	Range 30 - 130		Recovery = 854.33%#			
13) 2-Fluorobiphenyl	3.267	172	51428M3	19548.938	ng/ml	0.0
0						
Spiked Amount 2500.000	Range 30 - 130		Recovery = 781.96%#			
21) 2,4,6-Tribromophenol	4.102	330	8498	23774.184	ng/ml	0.01
Spiked Amount 5000.000	Range 15 - 110		Recovery = 475.48%#			
30) 4-Terphenyl-d14	5.446	244	73530	21330.785	ng/ml	0.03
Spiked Amount 2500.000	Range 30 - 130		Recovery = 853.23%#			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	1.856	93	17512	19777.142	ng/ml	97
5) n-nitrosodi-n-propylamine	2.199	70	12913	20092.521	ng/ml#	87
6) Hexachloroethane	2.247	117	8198	19736.576	ng/ml	81
9) Naphthalene	2.666	128	60240	19186.849	ng/ml#	100
10) Hexachlorobutadiene	2.745	225	13674	19012.900	ng/ml	99

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV128\231211LVIical\
Data File : IL10.D
Acq On : 11 Dec 2023 01:27 pm
Operator : SV128:dv
Sample : IL10,32,, 20.0 Lot#10186
Misc : WG1864557,,ical
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 18 10:40:51 2023
Quant Method : I:\8270SIM\SV128\231211LVIical\SIM-LVI_231211_sv128.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Dec 15 13:51:47 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\SV128\231211LVIical\IL7.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
11) 2-Methylnaphthalene	3.054	142	40429	20157.396	ng/ml	100
12) 1-Methylnaphthalene	3.109	142	37367	19783.617	ng/ml	100
14) 2-Chloronaphthalene	3.328	162	43490	19917.743	ng/ml	99
15) 2,6-Dinitrotoluene	3.537	165	9244M4	26008.947	ng/ml	
16) Acenaphthylene	3.564	152	69041M3	21205.345	ng/ml	
18) Acenaphthene	3.665	153	46036	18991.937	ng/ml	100
19) 2,4-Dinitrotoluene	3.768	165	12221	25677.113	ng/ml	92
20) Fluorene	3.961	166	50041	20483.915	ng/ml	99
23) 4,6-Dinitro-o-cresol	4.004	198	7032	24221.131	ng/ml	91
24) Hexachlorobenzene	4.286	284	20009	18332.687	ng/ml	97
25) Pentachlorophenol	4.402	266	12185M6	26900.783	ng/ml	
26) Phenanthrene	4.517	178	82367	18409.226	ng/ml	100
27) Anthracene	4.543	178	84113	19455.941	ng/ml	100
28) Fluoranthene	5.208	202	105522	21466.674	ng/ml	100
29) Pyrene	5.339	202	109378	21506.233	ng/ml	99
32) Benzo[a]anthracene	6.049	228	116366	17290.036	ng/ml	100
33) 3,3'-Dichlorobenzidine	6.046	252	46728	22036.988	ng/ml	99
34) Chrysene	6.071	228	102120	18254.890	ng/ml	99
35) Bis(2-ethylhexyl)phtha...	6.109	149	68214	25045.818	ng/ml	99
37) Benzo[b]fluoranthene	6.831	252	113469	20816.811	ng/ml	99
38) Benzo[k]fluoranthene	6.856	252	105755	20992.307	ng/ml	99
39) Benzo[a]pyrene	7.117	252	101168	21222.214	ng/ml	100
40) Indeno[1,2,3-cd]pyrene	8.319	276	92907	19490.762	ng/ml	100
41) Dibenzo[a,h]anthracene	8.364	278	91169M6	19671.137	ng/ml	
42) Benzo[g,h,i]perylene	8.644	276	90468M2	18088.508	ng/ml	

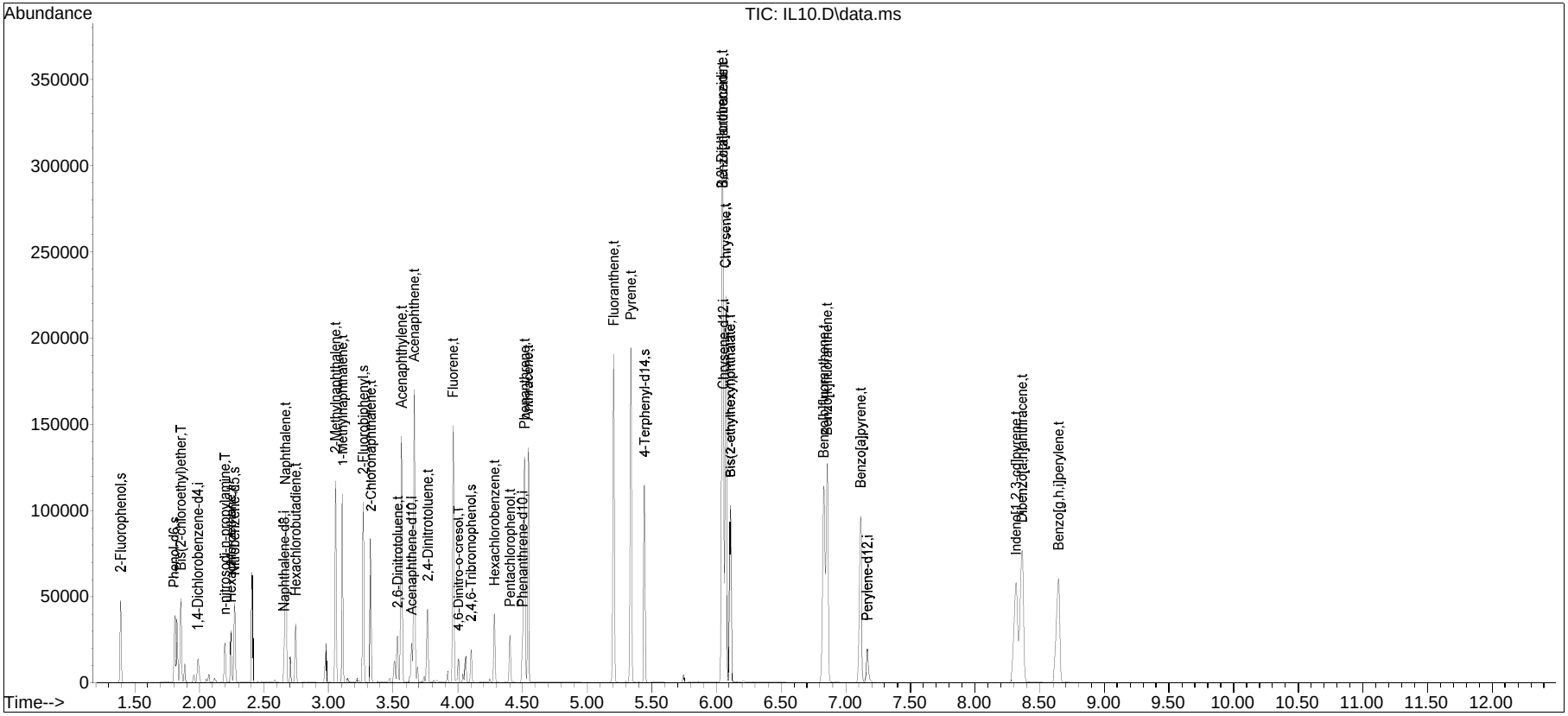
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV128\231211LVIical\
Data File : IL10.D
Acq On : 11 Dec 2023 01:27 pm
Operator : SV128:dv
Sample : IL10,32,, 20.0 Lot#10186
Misc : WG1864557,,ical
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 18 10:40:51 2023
Quant Method : I:\8270SIM\SV128\231211LVIical\SIM-LVI_231211_sv128.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Dec 15 13:51:47 2023
Response via : Initial Calibration

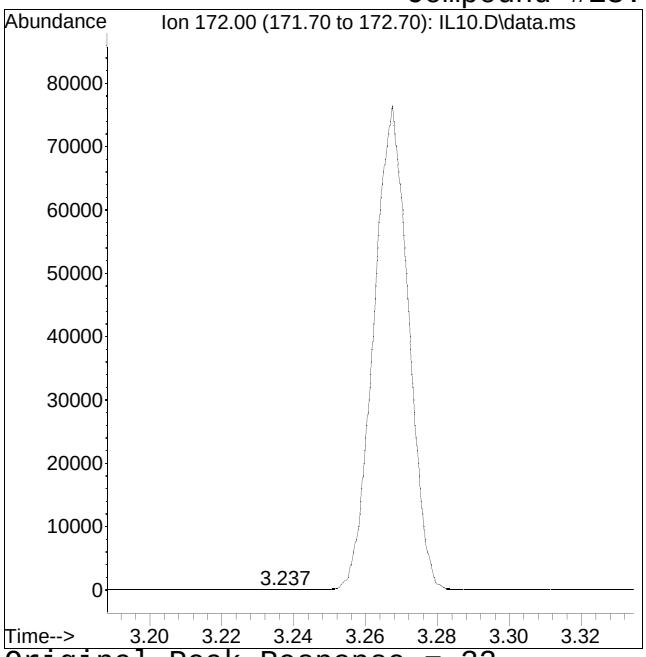
Sub List : Default - All compounds listedical\IL7.D•



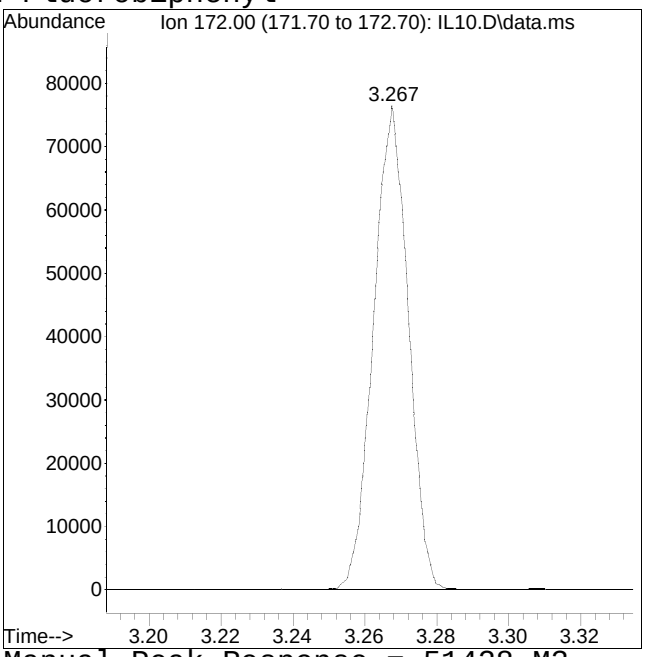
Manual Integration Report

Data Path : I:\8270SIM\SV128\231211LVIQMethod : SIM-LVI_231211_sv128.M
Data File : IL10.D Operator : SV128:dv
Date Inj'd : 12/11/2023 1:27 pm Instrument : SV128
Sample : IL10,32,, 20.0 Lot#10186 Quant Date : 12/15/2023 1:52 pm

Compound #13: 2-Fluorobiphenyl



Original Peak Response = 32



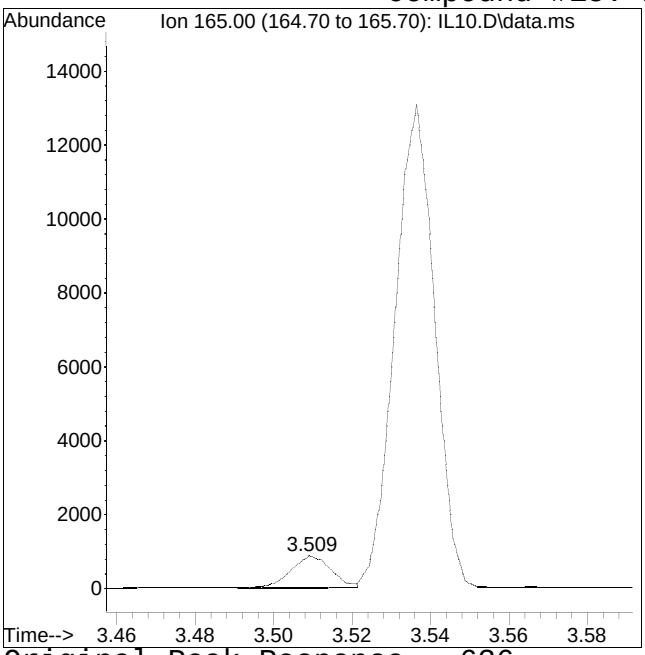
Manual Peak Response = 51428 M3

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

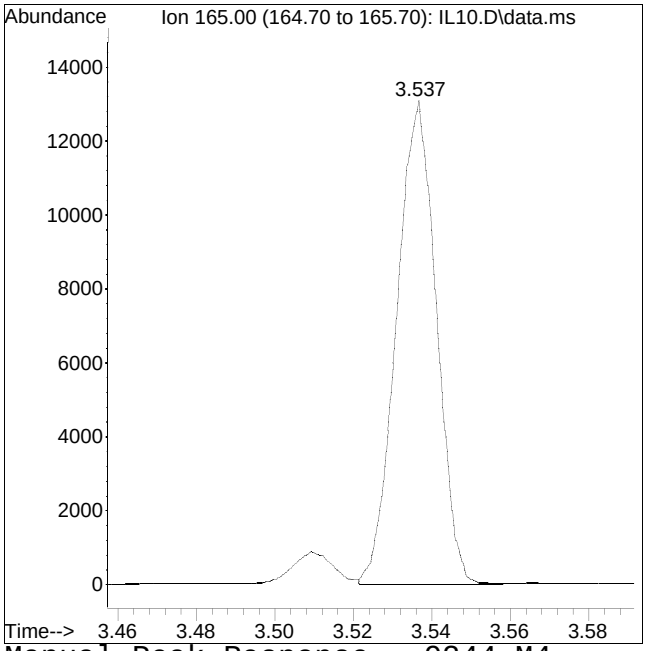
Manual Integration Report

Data Path : I:\8270SIM\SV128\231211LVIQMethod : SIM-LVI_231211_sv128.M
Data File : IL10.D Operator : SV128:dv
Date Inj'd : 12/11/2023 1:27 pm Instrument : SV128
Sample : IL10,32,, 20.0 Lot#10186 Quant Date : 12/15/2023 1:52 pm

Compound #15: 2,6-Dinitrotoluene



Original Peak Response = 636



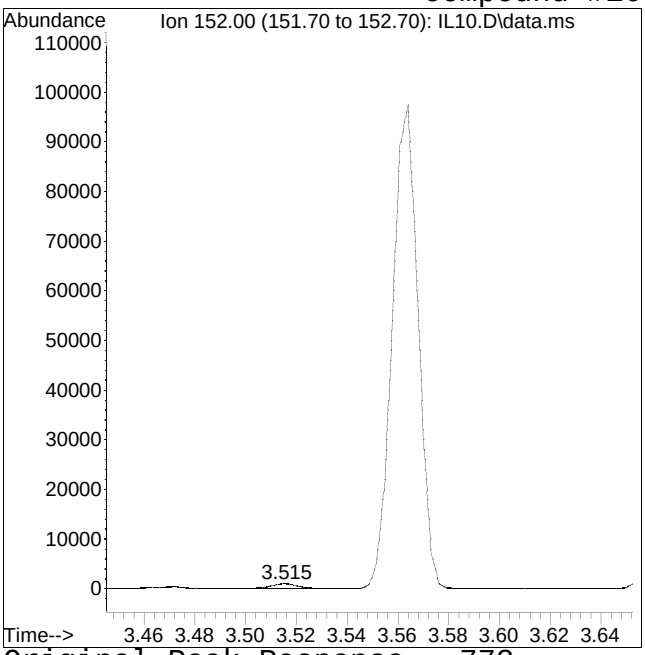
Manual Peak Response = 9244 M4

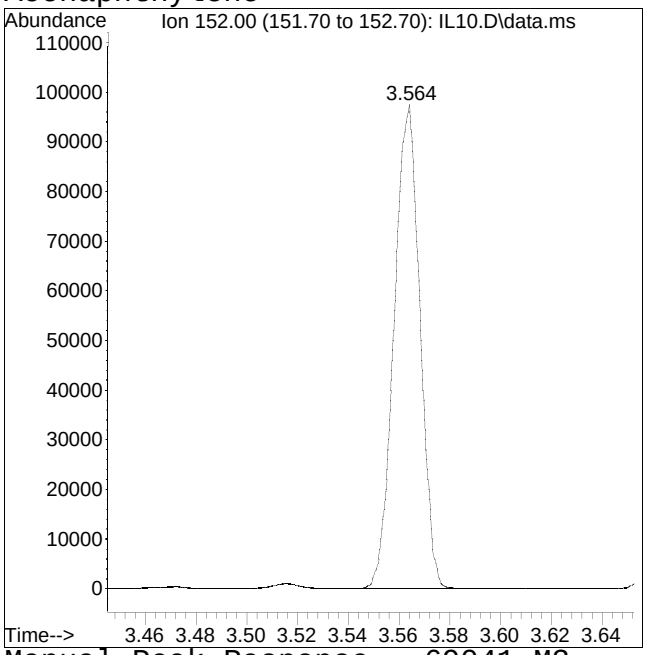
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\8270SIM\SV128\231211LVIQMethod : SIM-LVI_231211_sv128.M
Data File : IL10.D Operator : SV128:dv
Date Inj'd : 12/11/2023 1:27 pm Instrument : SV128
Sample : IL10,32,, 20.0 Lot#10186 Quant Date : 12/15/2023 1:52 pm

Compound #16: Acenaphthylene





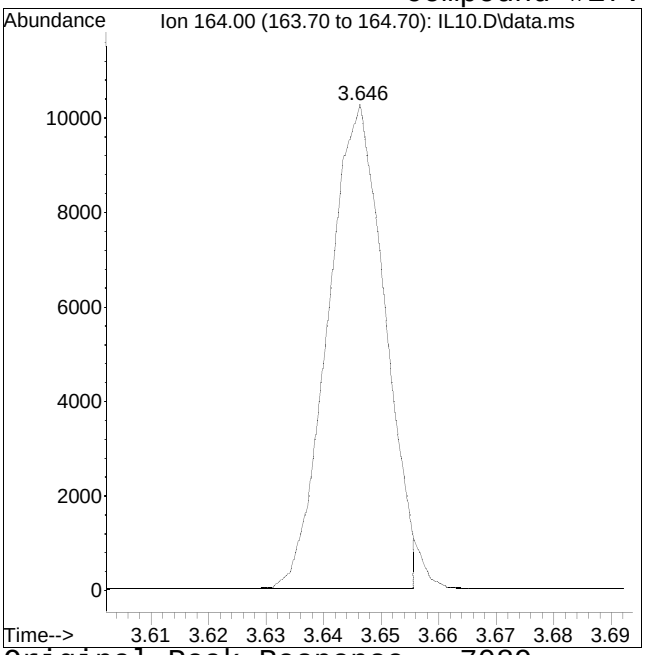
Original Peak Response = 773 Manual Peak Response = 69041 M3

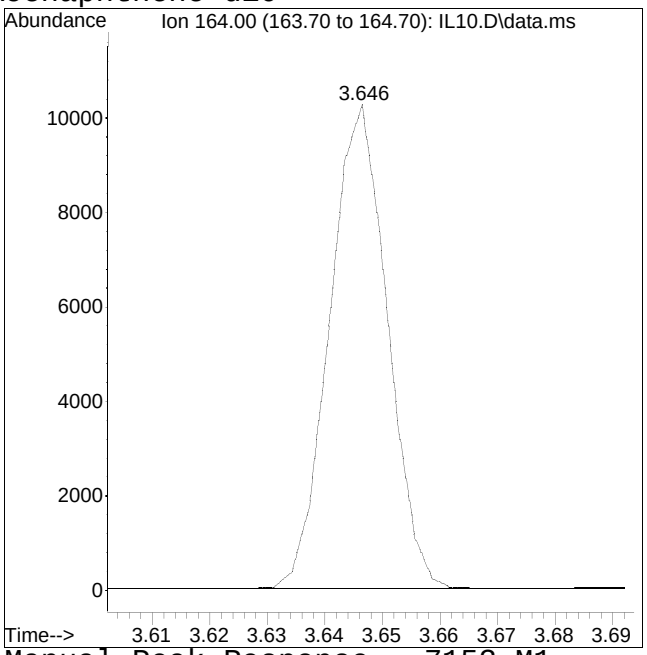
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\8270SIM\SV128\231211LVIQMethod : SIM-LVI_231211_sv128.M
Data File : IL10.D Operator : SV128:dv
Date Inj'd : 12/11/2023 1:27 pm Instrument : SV128
Sample : IL10,32,, 20.0 Lot#10186 Quant Date : 12/15/2023 1:52 pm

Compound #17: Acenaphthene-d10





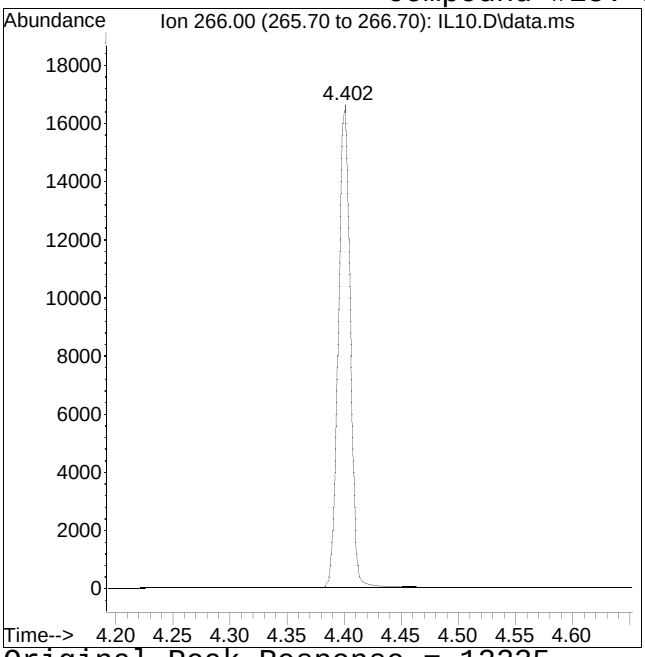
Original Peak Response = 7089 Manual Peak Response = 7153 M1

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

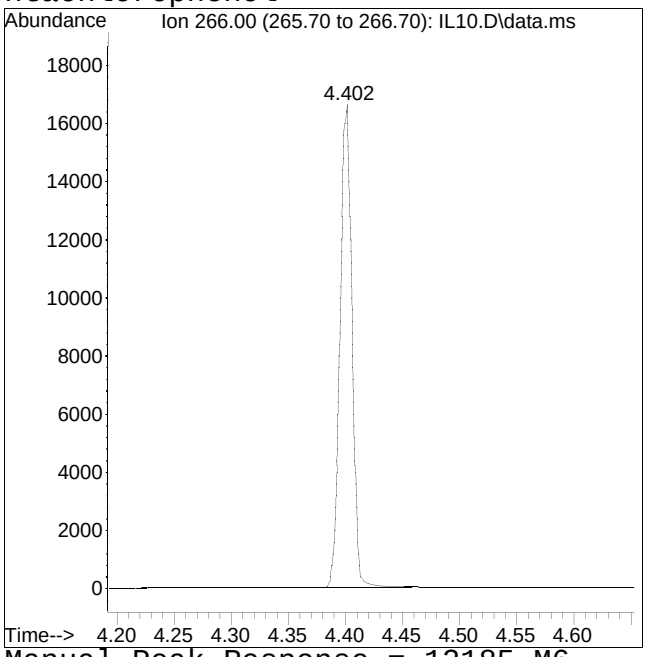
Manual Integration Report

Data Path : I:\8270SIM\SV128\231211LVIQMethod : SIM-LVI_231211_sv128.M
Data File : IL10.D Operator : SV128:dv
Date Inj'd : 12/11/2023 1:27 pm Instrument : SV128
Sample : IL10,32,, 20.0 Lot#10186 Quant Date : 12/15/2023 1:52 pm

Compound #25: Pentachlorophenol



Original Peak Response = 12235



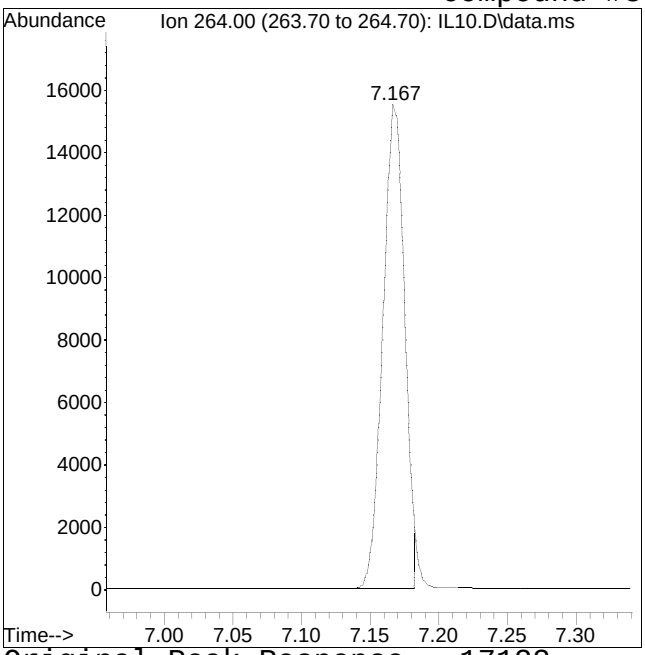
Manual Peak Response = 12185 M6

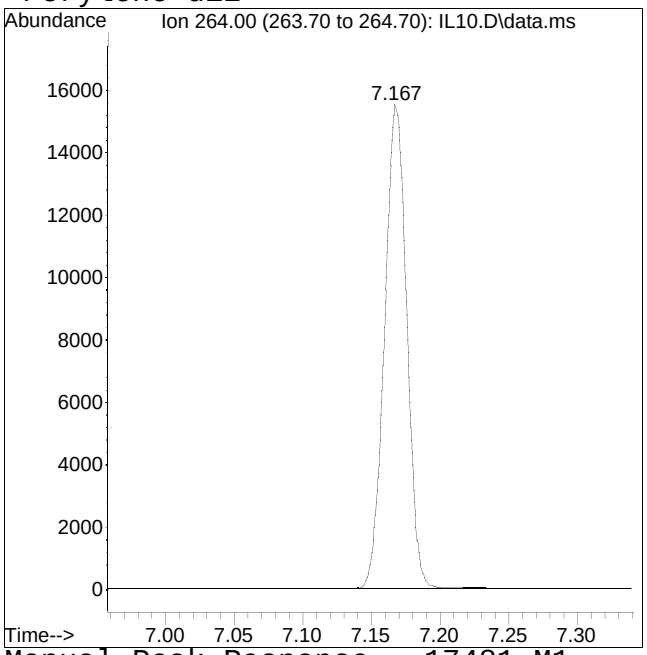
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

Data Path : I:\8270SIM\SV128\231211LVIQMethod : SIM-LVI_231211_sv128.M
Data File : IL10.D Operator : SV128:dv
Date Inj'd : 12/11/2023 1:27 pm Instrument : SV128
Sample : IL10,32,, 20.0 Lot#10186 Quant Date : 12/15/2023 1:52 pm

Compound #36: Perylene-d12



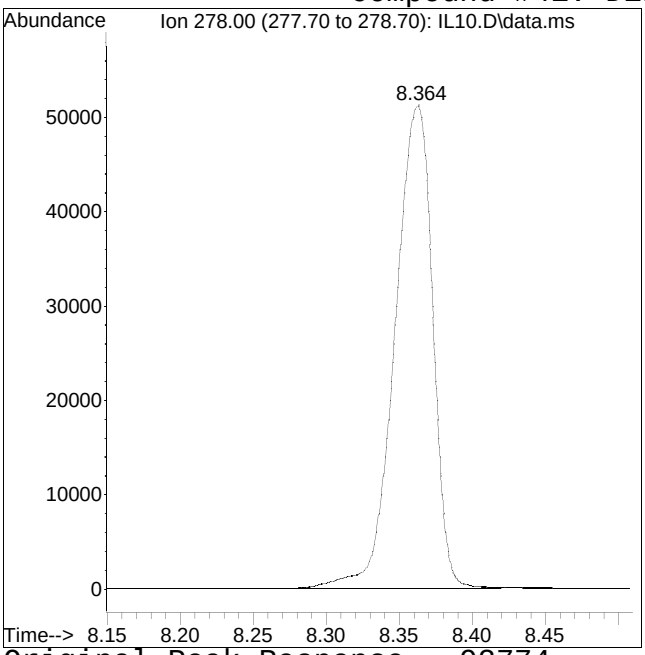


Original Peak Response = 17122 Manual Peak Response = 17481 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

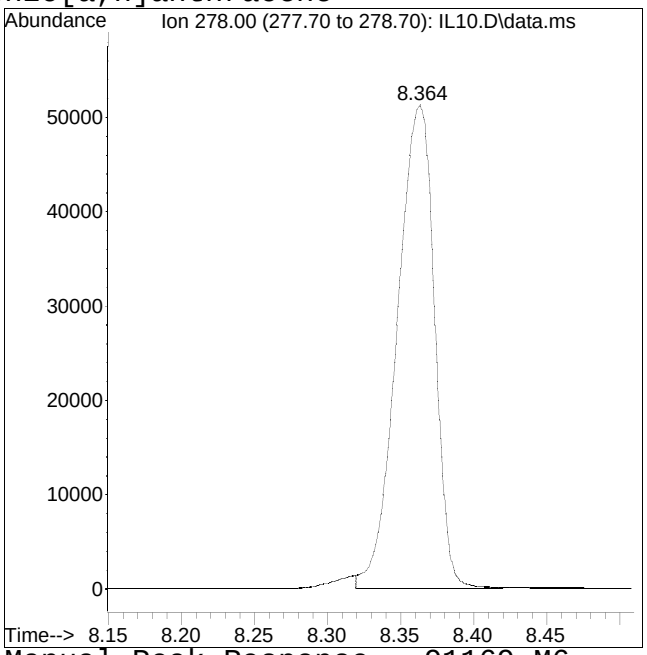
Manual Integration Report

Data Path : I:\8270SIM\SV128\231211LVIQMethod : SIM-LVI_231211_sv128.M
Data File : IL10.D Operator : SV128:dv
Date Inj'd : 12/11/2023 1:27 pm Instrument : SV128
Sample : IL10,32,, 20.0 Lot#10186 Quant Date : 12/15/2023 1:52 pm

Compound #41: Dibenzo[a,h]anthracene



Original Peak Response = 92774



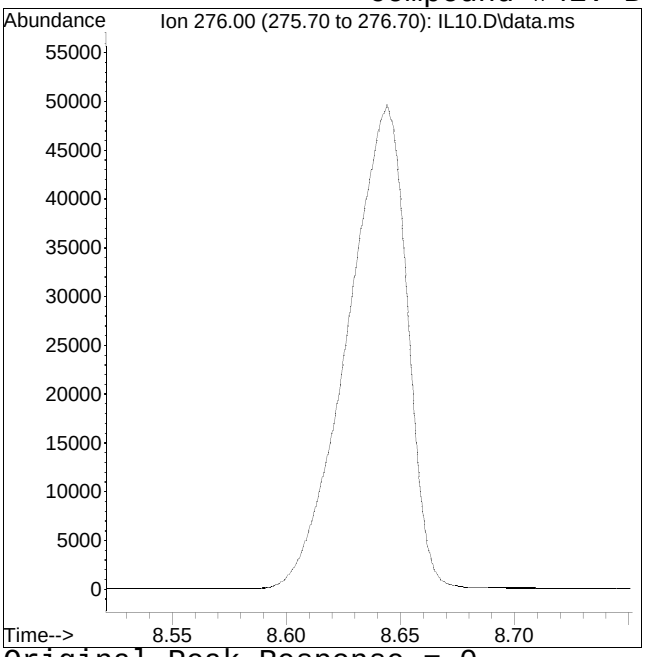
Manual Peak Response = 91169 M6

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

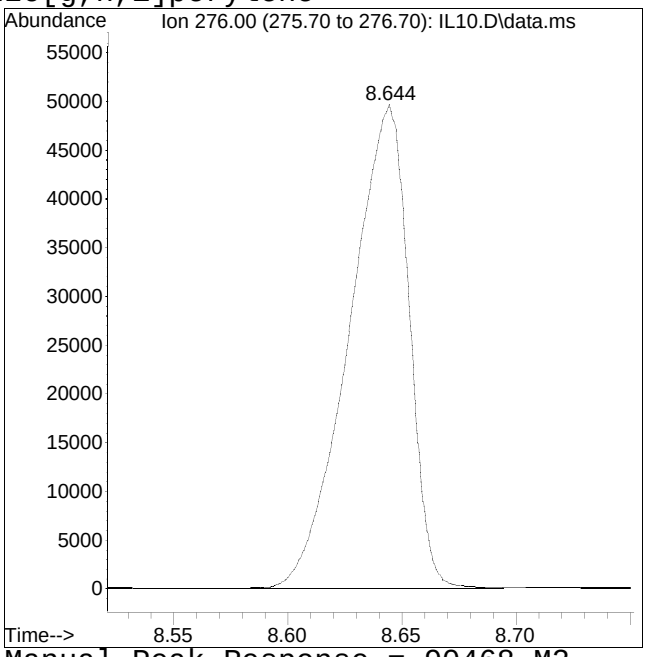
Manual Integration Report

Data Path : I:\8270SIM\SV128\231211LVIQMethod : SIM-LVI_231211_sv128.M
Data File : IL10.D Operator : SV128:dv
Date Inj'd : 12/11/2023 1:27 pm Instrument : SV128
Sample : IL10,32,, 20.0 Lot#10186 Quant Date : 12/15/2023 1:52 pm

Compound #42: Benzo[g,h,i]perylene



Original Peak Response = 0



Manual Peak Response = 90468 M2

M2 = Peak not found by automatic integration algorithm.

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV128\231211LVIical\
Data File : IL9.D
Acq On : 11 Dec 2023 01:44 pm
Operator : SV128:dv
Sample : IL9,32,, 10.0 Lot#10227
Misc : WG1864557,,ical
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 15 13:49:14 2023
Quant Method : I:\8270SIM\SV128\231211LVIical\SIM-LVI_231211_sv128.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Dec 15 13:43:56 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\SV128\231211LVIical\IL7.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.003	152	4089	4000.000	ng/ml	#-0.01
Standard Area 1 = 2982			Recovery = 137.12%			
8) Naphthalene-d8	2.662	136	14115	4000.000	ng/ml	-0.01
Standard Area 1 = 10566			Recovery = 133.59%			
17) Acenaphthene-d10	3.636	164	7935	4000.000	ng/ml	0.00
Standard Area 1 = 6070			Recovery = 130.72%			
22) Phenanthrene-d10	4.483	188	17150	4000.000	ng/ml	0.00
Standard Area 1 = 13526			Recovery = 126.79%			
31) Chrysene-d12	6.024	240	16597	4000.000	ng/ml	0.00
Standard Area 1 = 12766			Recovery = 130.01%			
36) Perylene-d12	7.110	264	18758	4000.000	ng/ml	0.00
Standard Area 1 = 15405			Recovery = 121.77%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.413	112	10839	10526.593	ng/ml	-0.01
Spiked Amount 5000.000	Range 15 - 110		Recovery = 210.53%#			
3) Phenol-d6	1.824	99	12494	10382.529	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 207.65%#			
7) Nitrobenzene-d5	2.283	82	10441	10736.315	ng/ml	-0.01
Spiked Amount 2500.000	Range 30 - 130		Recovery = 429.45%#			
13) 2-Fluorobiphenyl	3.263	172	29935	9869.832	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 394.79%#			
21) 2,4,6-Tribromophenol	4.085	330	4599	11598.280	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 231.97%#			
30) 4-Terphenyl-d14	5.419	244	38465	10765.567	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 430.62%#			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	1.873	93	10477	10064.152	ng/ml	97
5) n-nitrosodi-n-propylamine	2.210	70	7451	9861.303	ng/ml	99
6) Hexachloroethane	2.259	117	4991	10218.468	ng/ml	99
9) Naphthalene	2.674	128	35444	9791.932	ng/ml#	100
10) Hexachlorobutadiene	2.750	225	8212	9903.956	ng/ml	100
11) 2-Methylnaphthalene	3.053	142	23577	10196.167	ng/ml	100

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV128\231211LVIical\
Data File : IL9.D
Acq On : 11 Dec 2023 01:44 pm
Operator : SV128:dv
Sample : IL9,32,, 10.0 Lot#10227
Misc : WG1864557,,ical
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 15 13:49:14 2023
Quant Method : I:\8270SIM\SV128\231211LVIical\SIM-LVI_231211_sv128.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Dec 15 13:43:56 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\SV128\231211LVIical\IL7.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
12) 1-Methylnaphthalene	3.108	142	21843	10030.826 ng/ml	99
14) 2-Chloronaphthalene	3.321	162	25161	9995.064 ng/ml	99
15) 2,6-Dinitrotoluene	3.526	165	4948	12075.343 ng/ml	99
16) Acenaphthylene	3.554	152	39626	10556.634 ng/ml	100
18) Acenaphthene	3.655	153	26405	9819.721 ng/ml	100
19) 2,4-Dinitrotoluene	3.755	165	6530	12367.842 ng/ml	94
20) Fluorene	3.948	166	27869	10283.706 ng/ml	100
23) 4,6-Dinitro-o-cresol	3.985	198	3511M6	11660.138 ng/ml	
24) Hexachlorobenzene	4.268	284	11102M6	9813.656 ng/ml	
25) Pentachlorophenol	4.380	266	6194M6	13178.841 ng/ml	
26) Phenanthrene	4.495	178	44667	9631.590 ng/ml	100
27) Anthracene	4.525	178	45607	10177.697 ng/ml	99
28) Fluoranthene	5.184	202	54565	10595.557 ng/ml	100
29) Pyrene	5.312	202	57292	10868.191 ng/ml	99
32) Benzo[a]anthracene	6.016	228	59053	8578.679 ng/ml	100
33) 3,3'-Dichlorobenzidine	6.013	252	23962	11048.587 ng/ml	99
34) Chrysene	6.040	228	55804	9753.093 ng/ml	99
35) Bis(2-ethylhexyl)phtha...	6.073	149	33533	12037.679 ng/ml	99
37) Benzo[b]fluoranthene	6.780	252	59643	10197.089 ng/ml	96
38) Benzo[k]fluoranthene	6.802	252	60932	11271.570 ng/ml	96
39) Benzo[a]pyrene	7.057	252	55738	10896.290 ng/ml	100
40) Indeno[1,2,3-cd]pyrene	8.231	276	51925	10151.650 ng/ml	100
41) Dibenzo[a,h]anthracene	8.269	278	52512M6	10558.946 ng/ml	
42) Benzo[g,h,i]perylene	8.547	276	50079	9321.411 ng/ml	100

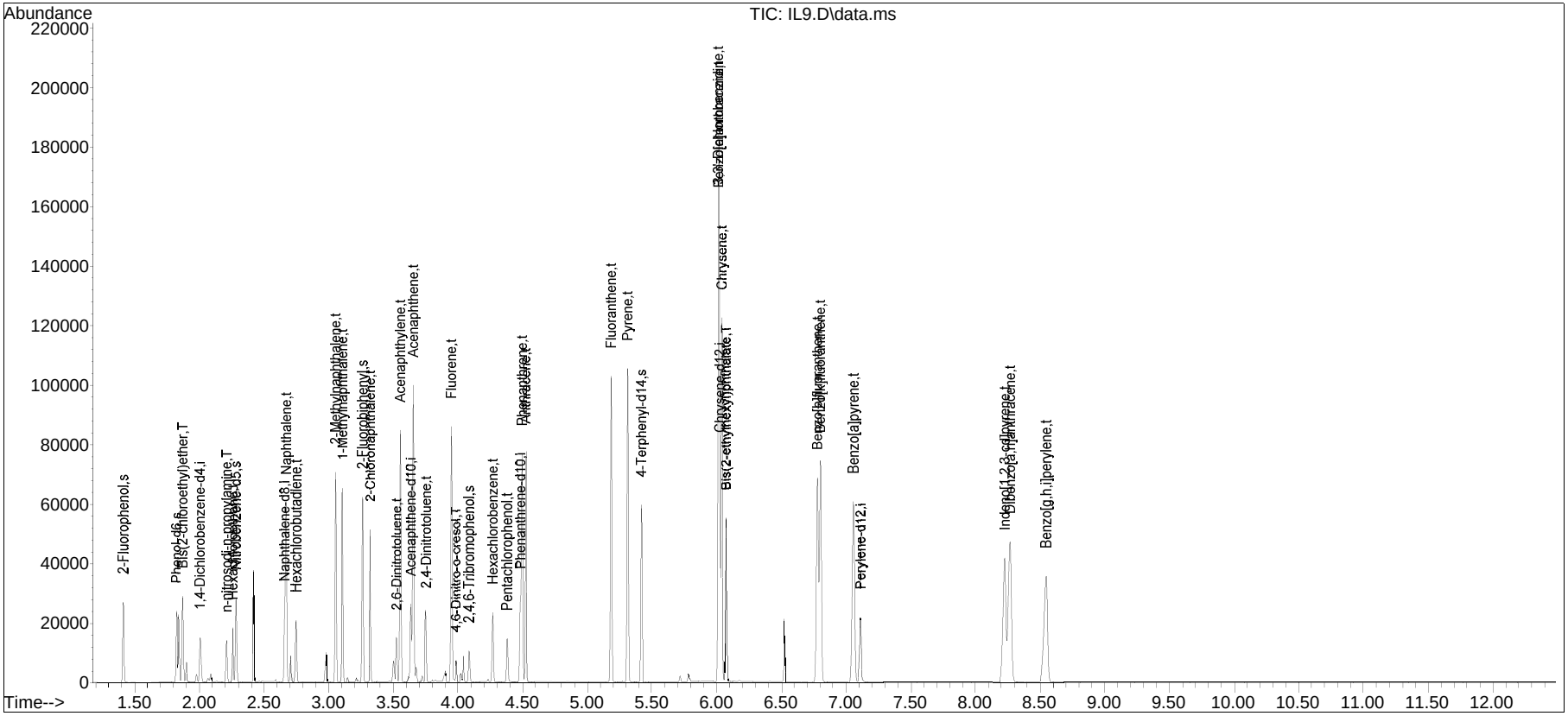
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV128\231211LVIical\
Data File : IL9.D
Acq On : 11 Dec 2023 01:44 pm
Operator : SV128:dv
Sample : IL9,32,, 10.0 Lot#10227
Misc : WG1864557,,ical
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 15 13:49:14 2023
Quant Method : I:\8270SIM\SV128\231211LVIical\SIM-LVI_231211_sv128.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Dec 15 13:43:56 2023
Response via : Initial Calibration

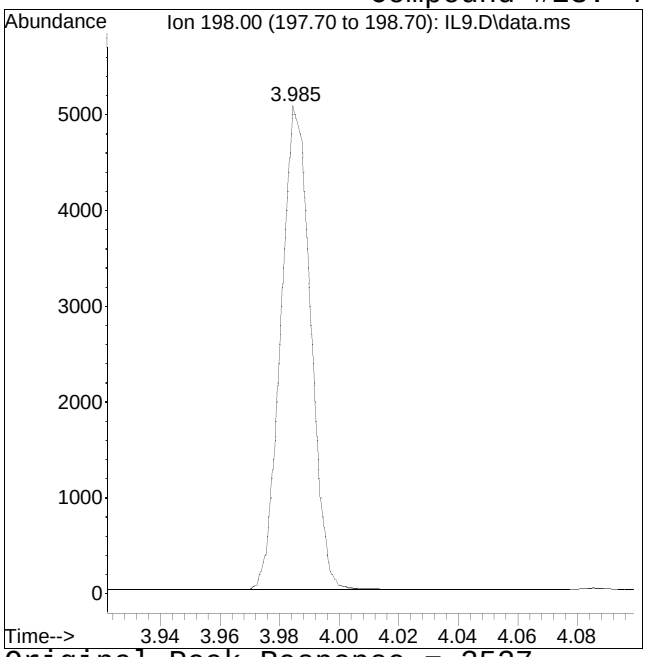
Sub List : Default - All compounds listedical\IL7.D•



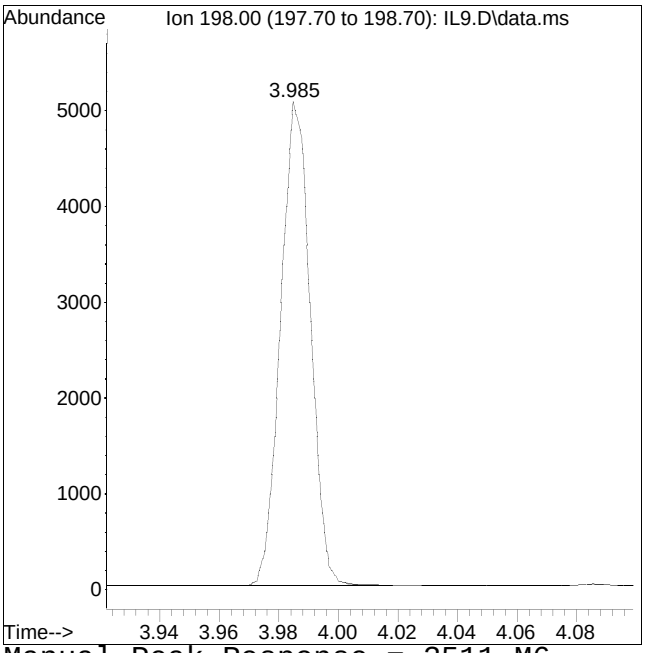
Manual Integration Report

Data Path : I:\8270SIM\SV128\231211LVIQMethod : SIM-LVI_231211_sv128.M
Data File : IL9.D Operator : SV128:dv
Date Inj'd : 12/11/2023 1:44 pm Instrument : SV128
Sample : IL9,32,, 10.0 Lot#10227 Quant Date : 12/15/2023 1:43 pm

Compound #23: 4,6-Dinitro-o-cresol



Original Peak Response = 3527



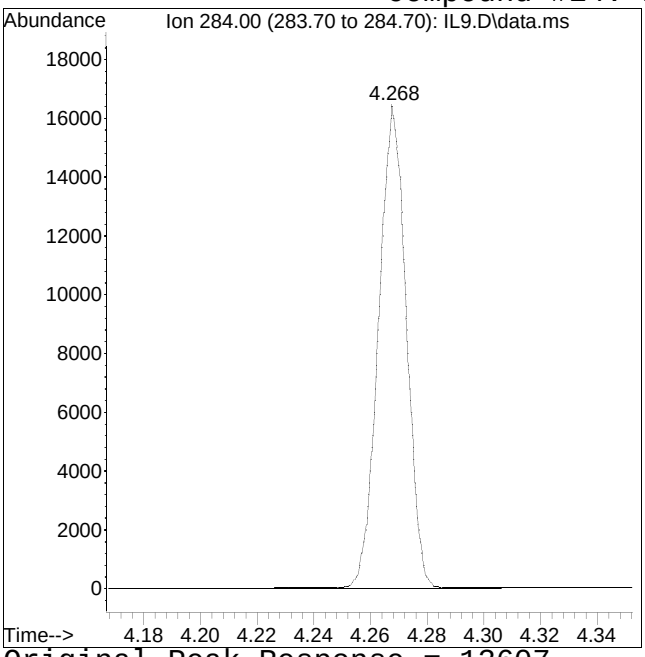
Manual Peak Response = 3511 M6

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

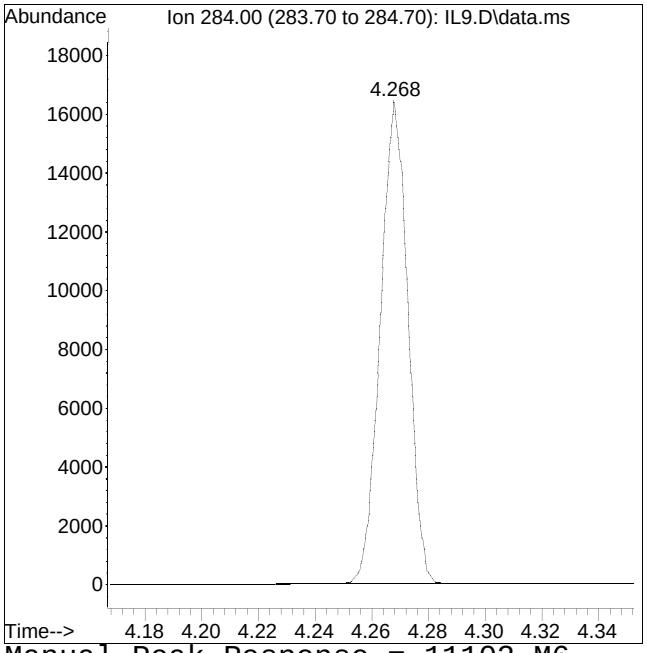
Manual Integration Report

Data Path : I:\8270SIM\SV128\231211LVIQMethod : SIM-LVI_231211_sv128.M
Data File : IL9.D Operator : SV128:dv
Date Inj'd : 12/11/2023 1:44 pm Instrument : SV128
Sample : IL9,32,, 10.0 Lot#10227 Quant Date : 12/15/2023 1:43 pm

Compound #24: Hexachlorobenzene



Original Peak Response = 13607



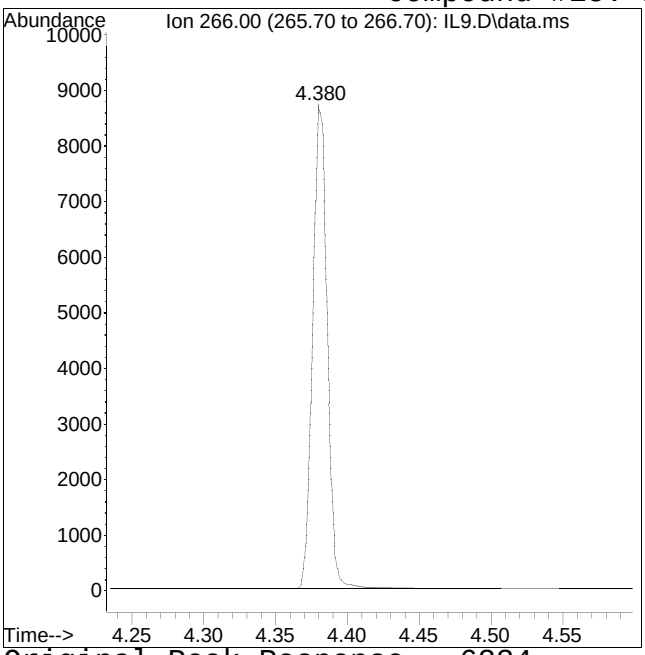
Manual Peak Response = 11102 M6

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

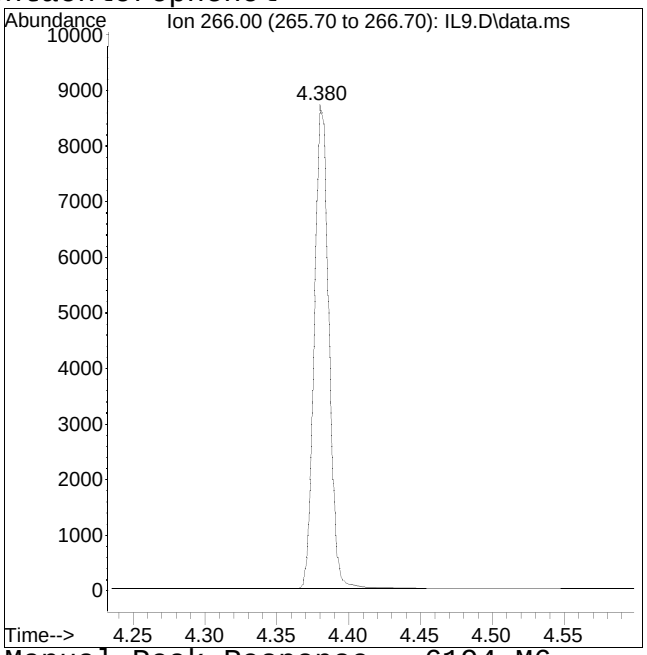
Manual Integration Report

Data Path : I:\8270SIM\SV128\231211LVIQMethod : SIM-LVI_231211_sv128.M
Data File : IL9.D Operator : SV128:dv
Date Inj'd : 12/11/2023 1:44 pm Instrument : SV128
Sample : IL9,32,, 10.0 Lot#10227 Quant Date : 12/15/2023 1:43 pm

Compound #25: Pentachlorophenol



Original Peak Response = 6234



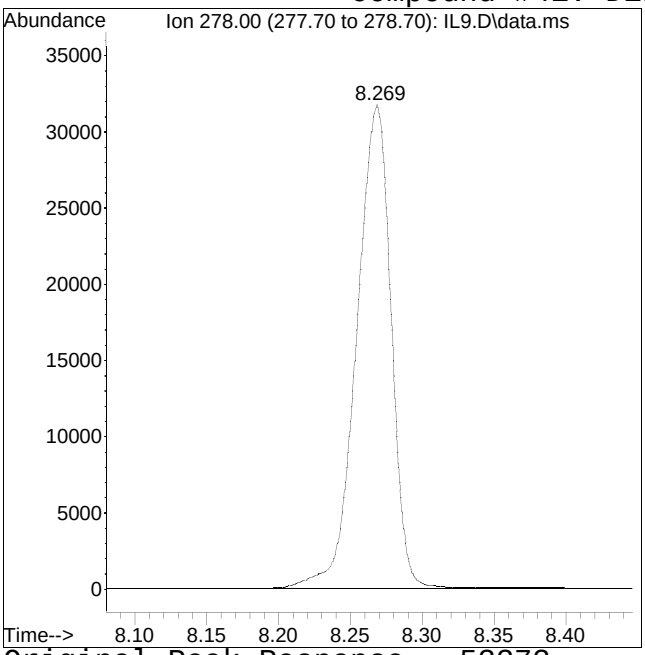
Manual Peak Response = 6194 M6

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

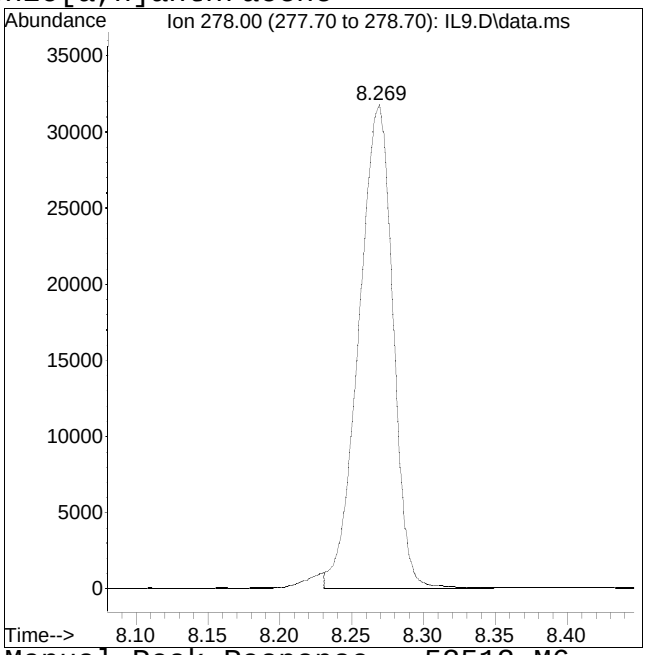
Manual Integration Report

Data Path : I:\8270SIM\SV128\231211LVIQMethod : SIM-LVI_231211_sv128.M
Data File : IL9.D Operator : SV128:dv
Date Inj'd : 12/11/2023 1:44 pm Instrument : SV128
Sample : IL9,32,, 10.0 Lot#10227 Quant Date : 12/15/2023 1:43 pm

Compound #41: Dibenzo[a,h]anthracene



Original Peak Response = 53373



Manual Peak Response = 52512 M6

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV128\231211LVIical\
Data File : IL8.D
Acq On : 11 Dec 2023 02:00 pm
Operator : SV128:dv
Sample : IL8,32,, 5.0 Lot#10228
Misc : WG1864557,,ical
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 15 13:51:20 2023
Quant Method : I:\8270SIM\SV128\231211LVIical\SIM-LVI_231211_sv128.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Dec 15 13:43:50 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\SV128\231211LVIical\IL7.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.007	152	3491	4000.000	ng/ml	0.00
Standard Area 1 = 2982			Recovery = 117.07%			
8) Naphthalene-d8	2.666	136	12086	4000.000	ng/ml	0.00
Standard Area 1 = 10566			Recovery = 114.39%			
17) Acenaphthene-d10	3.640	164	6945	4000.000	ng/ml	0.00
Standard Area 1 = 6070			Recovery = 114.42%			
22) Phenanthrene-d10	4.484	188	14579	4000.000	ng/ml	0.00
Standard Area 1 = 13526			Recovery = 107.79%			
31) Chrysene-d12	6.022	240	13118	4000.000	ng/ml	0.00
Standard Area 1 = 12766			Recovery = 102.76%			
36) Perylene-d12	7.104	264	14285	4000.000	ng/ml	0.00
Standard Area 1 = 15405			Recovery = 92.73%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.416	112	4642	5280.451	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 105.61%			
3) Phenol-d6	1.828	99	5414	5269.715	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 105.39%			
7) Nitrobenzene-d5	2.290	82	4487	5404.263	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 216.17%#			
13) 2-Fluorobiphenyl	3.267	172	13511	5202.550	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 208.10%#			
21) 2,4,6-Tribromophenol	4.089	330	1963	5656.205	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 113.12%#			
30) 4-Terphenyl-d14	5.420	244	16767	5520.303	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 220.81%#			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	1.877	93	4535	5102.521	ng/ml	97
5) n-nitrosodi-n-propylamine	2.213	70	3320	5146.656	ng/ml	100
6) Hexachloroethane	2.265	117	2148M6	5151.098	ng/ml	
9) Naphthalene	2.678	128	15738	5077.776	ng/ml#	100
10) Hexachlorobutadiene	2.754	225	3598	5067.797	ng/ml	100
11) 2-Methylnaphthalene	3.057	142	10535	5320.853	ng/ml	99
12) 1-Methylnaphthalene	3.112	142	9816	5264.502	ng/ml	100
14) 2-Chloronaphthalene	3.325	162	11387	5282.814	ng/ml	100
15) 2,6-Dinitrotoluene	3.527	165	2059	5868.464	ng/ml	99
16) Acenaphthylene	3.558	152	17597	5474.975	ng/ml	100
18) Acenaphthene	3.655	153	11986	5092.862	ng/ml	99

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV128\231211LVIical\
Data File : IL8.D
Acq On : 11 Dec 2023 02:00 pm
Operator : SV128:dv
Sample : IL8,32,, 5.0 Lot#10228
Misc : WG1864557,,ical
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 15 13:51:20 2023
Quant Method : I:\8270SIM\SV128\231211LVIical\SIM-LVI_231211_sv128.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Dec 15 13:43:50 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\SV128\231211LVIical\IL7.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
19) 2,4-Dinitrotoluene	3.756	165	2708	5860.087	ng/ml	97
20) Fluorene	3.949	166	12611	5316.826	ng/ml	99
23) 4,6-Dinitro-o-cresol	3.985	198	1460M4	5703.771	ng/ml	
24) Hexachlorobenzene	4.268	284	4932M6	5128.485	ng/ml	
25) Pentachlorophenol	4.384	266	2585	6469.980	ng/ml	99
26) Phenanthrene	4.496	178	19885	5043.978	ng/ml	100
27) Anthracene	4.526	178	20155	5290.993	ng/ml	100
28) Fluoranthene	5.184	202	23239M6	5308.398	ng/ml	
29) Pyrene	5.312	202	24764	5526.122	ng/ml	100
32) Benzo[a]anthracene	6.014	228	24102	4429.896	ng/ml	100
33) 3,3'-Dichlorobenzidine	6.011	252	9200	5367.023	ng/ml	99
34) Chrysene	6.036	228	22882	5059.796	ng/ml	99
35) Bis(2-ethylhexyl)phtha...	6.071	149	12397	5630.525	ng/ml	98
37) Benzo[b]fluoranthene	6.774	252	23830	5349.917	ng/ml	100
38) Benzo[k]fluoranthene	6.796	252	22868	5554.864	ng/ml	99
39) Benzo[a]pyrene	7.051	252	21394	5491.937	ng/ml	100
40) Indeno[1,2,3-cd]pyrene	8.219	276	20237	5195.323	ng/ml	100
41) Dibenzo[a,h]anthracene	8.260	278	20722	5471.419	ng/ml	100
42) Benzo[g,h,i]perylene	8.532	276	20873	5101.727	ng/ml	99

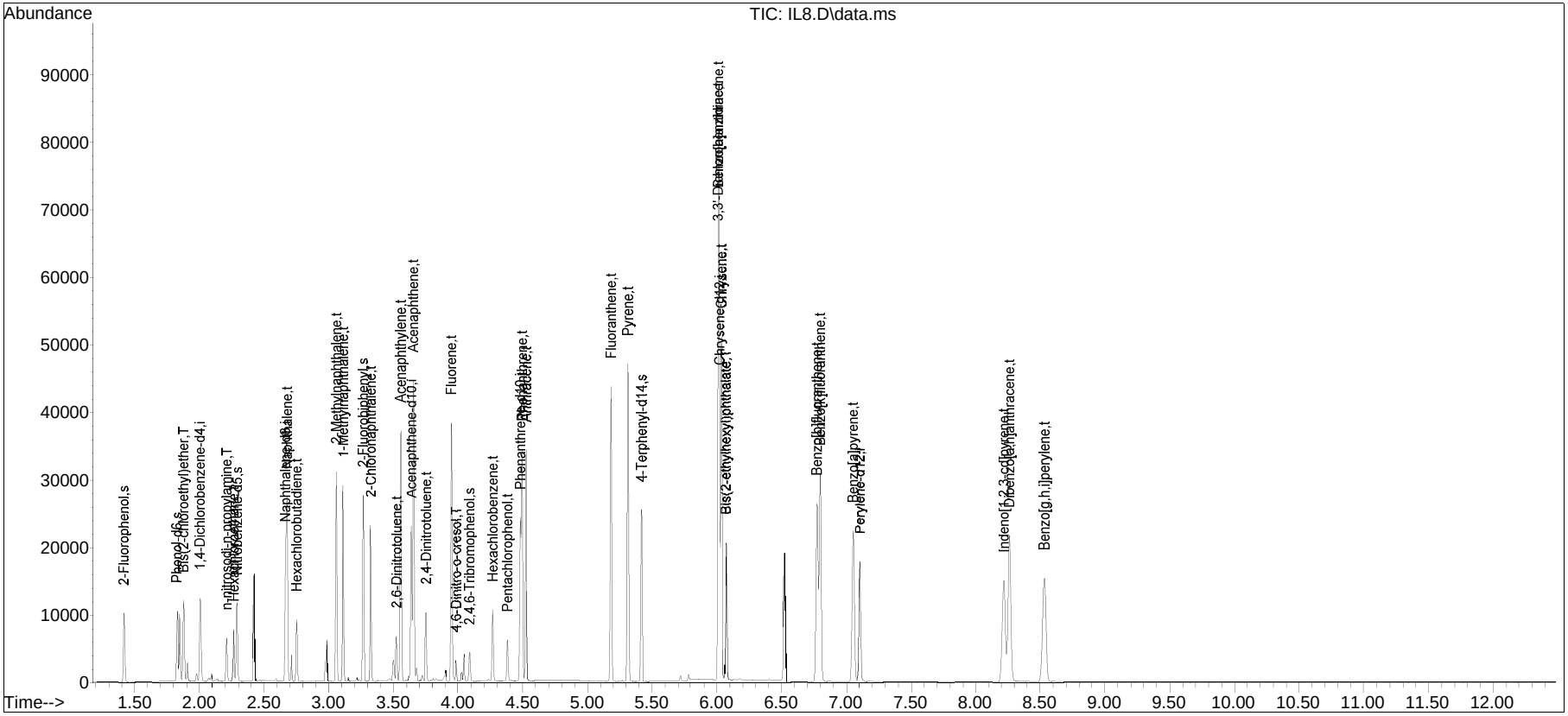
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV128\231211LVIical\
Data File : IL8.D
Acq On : 11 Dec 2023 02:00 pm
Operator : SV128:dv
Sample : IL8,32,, 5.0 Lot#10228
Misc : WG1864557,,ical
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 15 13:51:20 2023
Quant Method : I:\8270SIM\SV128\231211LVIical\SIM-LVI_231211_sv128.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Dec 15 13:43:50 2023
Response via : Initial Calibration

Sub List : Default - All compounds listedical\IL7.D•

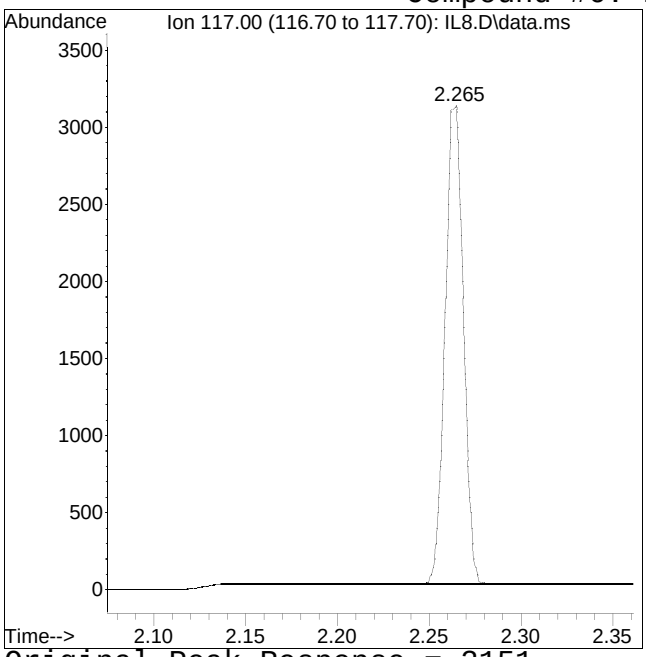


Manual Integration Report

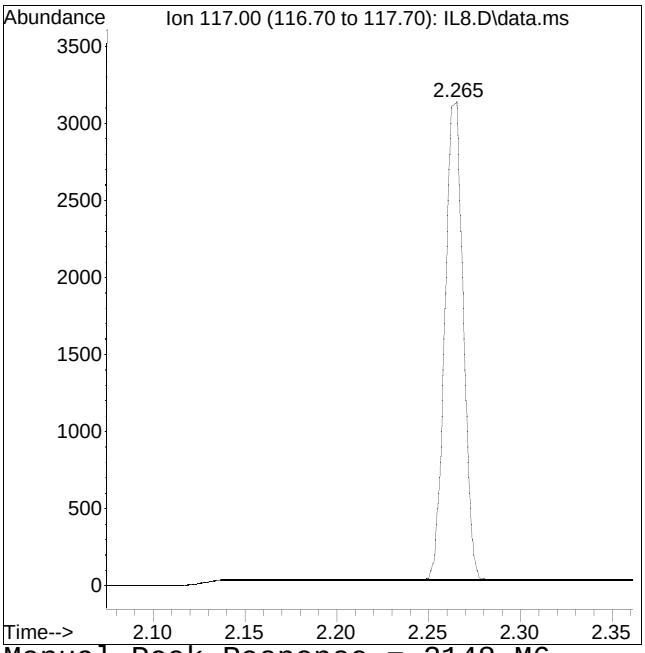
Data Path : I:\8270SIM\SV128\231211LVIQ
Data File : IL8.D
Date Inj'd : 12/11/2023 2:00 pm
Sample : IL8,32,, 5.0 Lot#10228

Method : SIM-LVI_231211_sv128.M
Operator : SV128:dv
Instrument : SV128
Quant Date : 12/15/2023 1:43 pm

Compound #6: Hexachloroethane



Original Peak Response = 2151



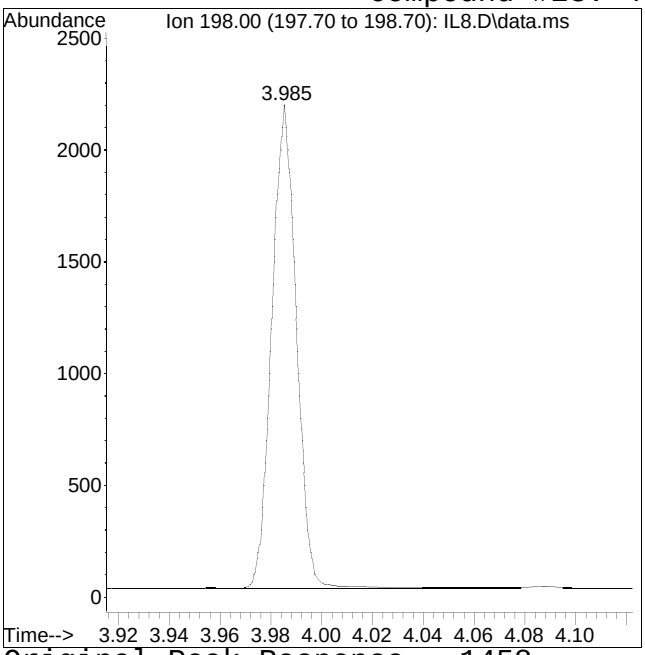
Manual Peak Response = 2148 M6

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

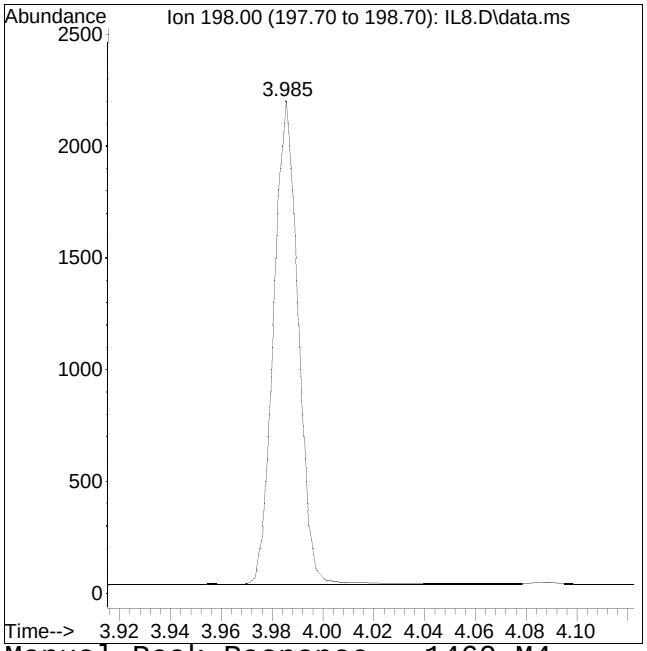
Manual Integration Report

Data Path : I:\8270SIM\SV128\231211LVIQMethod : SIM-LVI_231211_sv128.M
Data File : IL8.D Operator : SV128:dv
Date Inj'd : 12/11/2023 2:00 pm Instrument : SV128
Sample : IL8,32,, 5.0 Lot#10228 Quant Date : 12/15/2023 1:43 pm

Compound #23: 4,6-Dinitro-o-cresol



Original Peak Response = 1458



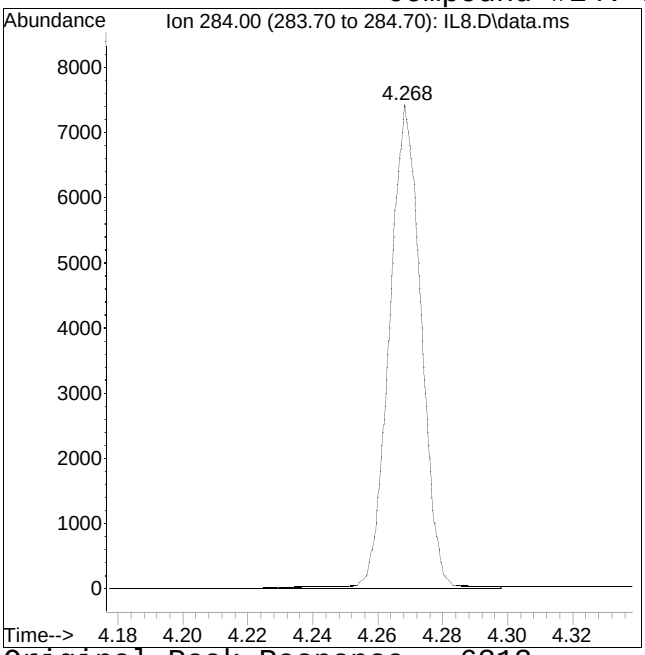
Manual Peak Response = 1460 M4

M4 = Poor automated baseline construction.

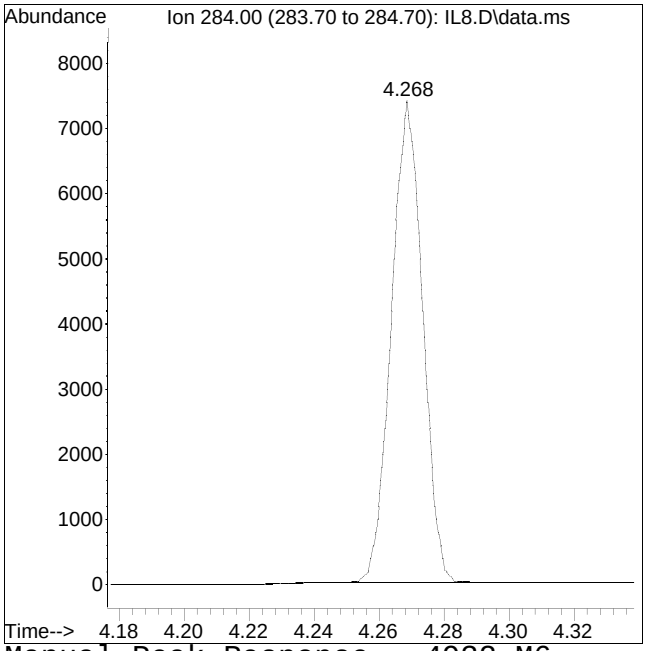
Manual Integration Report

Data Path : I:\8270SIM\SV128\231211LVIQMethod : SIM-LVI_231211_sv128.M
Data File : IL8.D Operator : SV128:dv
Date Inj'd : 12/11/2023 2:00 pm Instrument : SV128
Sample : IL8,32,, 5.0 Lot#10228 Quant Date : 12/15/2023 1:43 pm

Compound #24: Hexachlorobenzene



Original Peak Response = 6313



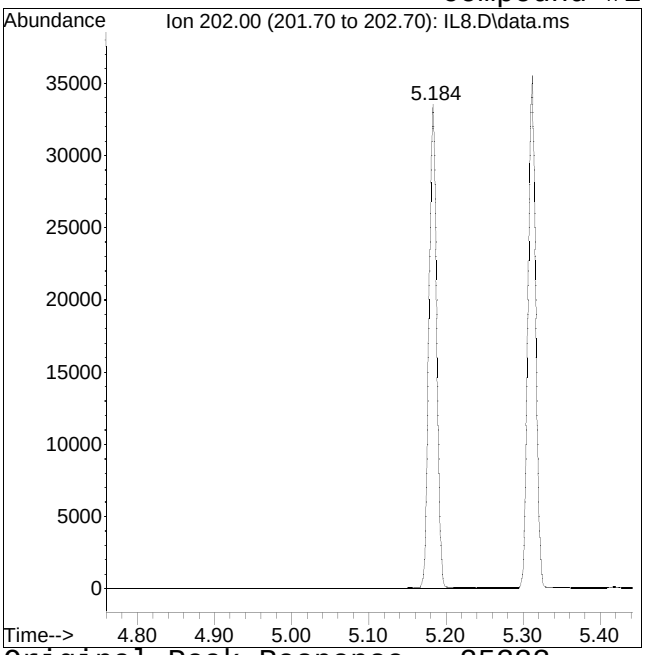
Manual Peak Response = 4932 M6

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

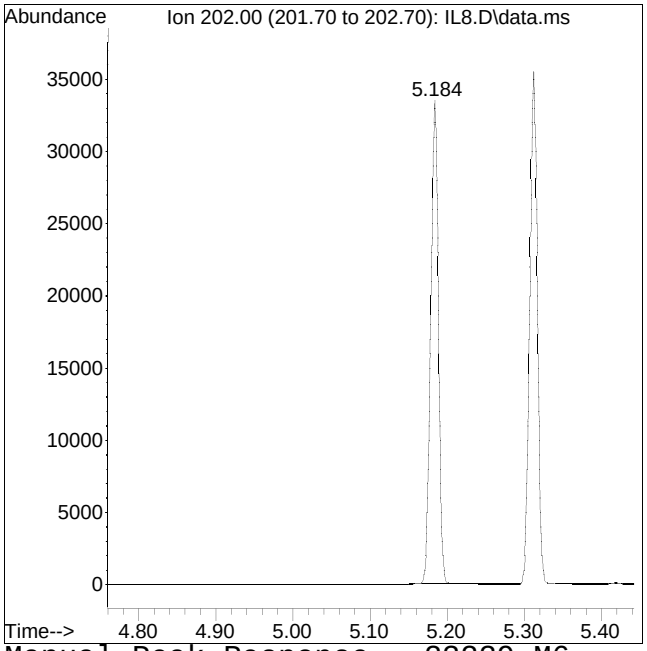
Manual Integration Report

Data Path : I:\8270SIM\SV128\231211LVIQMethod : SIM-LVI_231211_sv128.M
Data File : IL8.D Operator : SV128:dv
Date Inj'd : 12/11/2023 2:00 pm Instrument : SV128
Sample : IL8,32,, 5.0 Lot#10228 Quant Date : 12/15/2023 1:43 pm

Compound #28: Fluoranthene



Original Peak Response = 25333



Manual Peak Response = 23239 M6

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV128\231211LVIical\
Data File : IL7.D
Acq On : 11 Dec 2023 02:17 pm
Operator : SV128:dv
Sample : IL7,32,, 1.0 Lot#10229
Misc : WG1864557,,ical
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Dec 18 10:39:47 2023
Quant Method : I:\8270SIM\SV128\231211LVIical\SIM-LVI_231211_sv128.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Dec 15 13:43:25 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\SV128\231211LVIical\IL7.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.014	152	2982M1	4000.000	ng/ml	0.00
Standard Area 1 = 2982			Recovery = 100.00%			
8) Naphthalene-d8	2.672	136	10566	4000.000	ng/ml	0.00
Standard Area 1 = 10566			Recovery = 100.00%			
17) Acenaphthene-d10	3.640	164	6068	4000.000	ng/ml	0.00
Standard Area 1 = 6070			Recovery = 99.97%			
22) Phenanthrene-d10	4.484	188	13526	4000.000	ng/ml	0.00
Standard Area 1 = 13526			Recovery = 100.00%			
31) Chrysene-d12	6.019	240	12773	4000.000	ng/ml	0.00
Standard Area 1 = 12766			Recovery = 100.05%			
36) Perylene-d12	7.102	264	15389	4000.000	ng/ml	0.00
Standard Area 1 = 15405			Recovery = 99.90%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.424	112	794M6	1057.374	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 21.15%			
3) Phenol-d6	1.831	99	929M6	1058.588	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 21.17%			
7) Nitrobenzene-d5	2.293	82	757M6	1067.379	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 42.70%			
13) 2-Fluorobiphenyl	3.270	172	2395	1054.888	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 42.20%			
21) 2,4,6-Tribromophenol	4.089	330	323	1065.207	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 21.30%			
30) 4-Terphenyl-d14	5.420	244	3059	1085.539	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 43.42%			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	1.884	93	758	998.433	ng/ml	100
5) n-nitrosodi-n-propylamine	2.220	70	554	1005.400	ng/ml	100
6) Hexachloroethane	2.268	117	367	1030.324	ng/ml	100
9) Naphthalene	2.681	128	2776	1024.508	ng/ml#	100
10) Hexachlorobutadiene	2.757	225	620	998.899	ng/ml	100
11) 2-Methylnaphthalene	3.060	142	1820M6	1051.453	ng/ml	
12) 1-Methylnaphthalene	3.115	142	1712	1050.264	ng/ml	100
14) 2-Chloronaphthalene	3.328	162	1992M6	1057.103	ng/ml	

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV128\231211LVIical\
Data File : IL7.D
Acq On : 11 Dec 2023 02:17 pm
Operator : SV128:dv
Sample : IL7,32,, 1.0 Lot#10229
Misc : WG1864557,,ical
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Dec 18 10:39:47 2023
Quant Method : I:\8270SIM\SV128\231211LVIical\SIM-LVI_231211_sv128.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Dec 15 13:43:25 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\SV128\231211LVIical\IL7.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
15) 2,6-Dinitrotoluene	3.527	165	321M4	1046.514	ng/ml	
16) Acenaphthylene	3.558	152	3011M6	1071.584	ng/ml	
18) Acenaphthene	3.658	153	2110	1026.117	ng/ml	100
19) 2,4-Dinitrotoluene	3.756	165	422	1045.188	ng/ml	100
20) Fluorene	3.952	166	2214M6	1068.334	ng/ml	
23) 4,6-Dinitro-o-cresol	3.985	198	229M6	964.280	ng/ml	
24) Hexachlorobenzene	4.268	284	897M6	1005.349	ng/ml	
25) Pentachlorophenol	4.384	266	388	1046.725	ng/ml	100
26) Phenanthrene	4.496	178	3682	1006.676	ng/ml	100
27) Anthracene	4.525	178	3624	1025.418	ng/ml	100
28) Fluoranthene	5.184	202	4237	1043.189	ng/ml	100
29) Pyrene	5.312	202	4548	1093.902	ng/ml	100
32) Benzo[a]anthracene	6.014	228	4541	857.169	ng/ml	100
33) 3,3'-Dichlorobenzidine	6.011	252	1643M4	984.369	ng/ml	
34) Chrysene	6.036	228	4555	1034.432	ng/ml	100
35) Bis(2-ethylhexyl)phtha...	6.071	149	1935	902.585	ng/ml	100
37) Benzo[b]fluoranthene	6.775	252	4827M6	1005.936	ng/ml	
38) Benzo[k]fluoranthene	6.794	252	4558	1027.755	ng/ml	100
39) Benzo[a]pyrene	7.049	252	4358	1038.462	ng/ml	100
40) Indeno[1,2,3-cd]pyrene	8.214	276	4364	1039.970	ng/ml	100
41) Dibenzo[a,h]anthracene	8.256	278	4480	1098.035	ng/ml	100
42) Benzo[g,h,i]perylene	8.524	276	4710M3	1068.619	ng/ml	

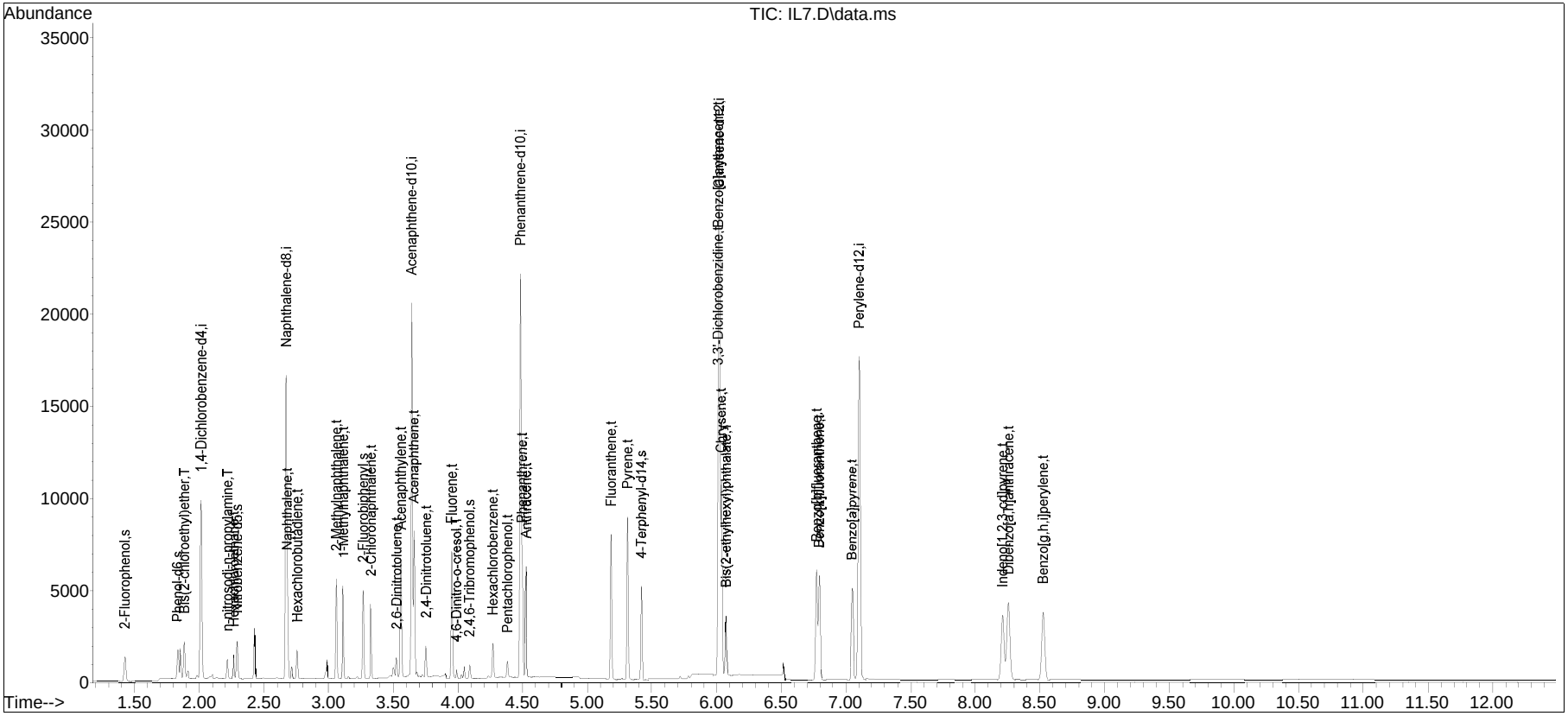
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV128\231211LVIical\
Data File : IL7.D
Acq On : 11 Dec 2023 02:17 pm
Operator : SV128:dv
Sample : IL7,32,, 1.0 Lot#10229
Misc : WG1864557,,ical
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Dec 18 10:39:47 2023
Quant Method : I:\8270SIM\SV128\231211LVIical\SIM-LVI_231211_sv128.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Dec 15 13:43:25 2023
Response via : Initial Calibration

Sub List : Default - All compounds listedical\IL7.D•

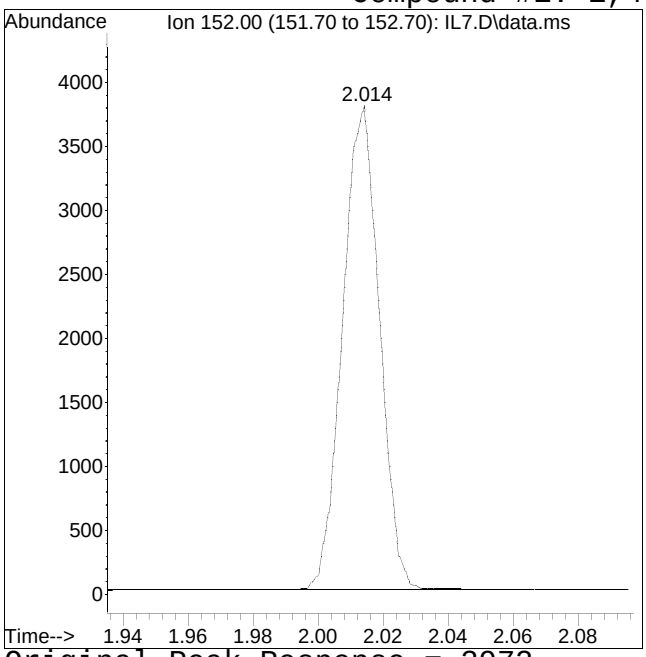


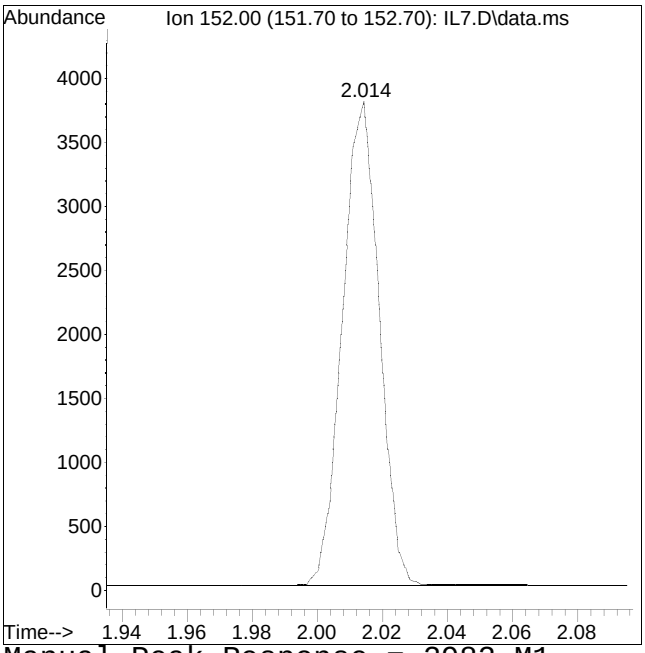
Manual Integration Report

Data Path : I:\8270SIM\SV128\231211LVIQ
Data File : IL7.D
Date Inj'd : 12/11/2023 2:17 pm
Sample : IL7,32,, 1.0 Lot#10229

Method : SIM-LVI_231211_sv128.M
Operator : SV128:dv
Instrument : SV128
Quant Date : 12/15/2023 1:43 pm

Compound #1: 1,4-Dichlorobenzene-d4





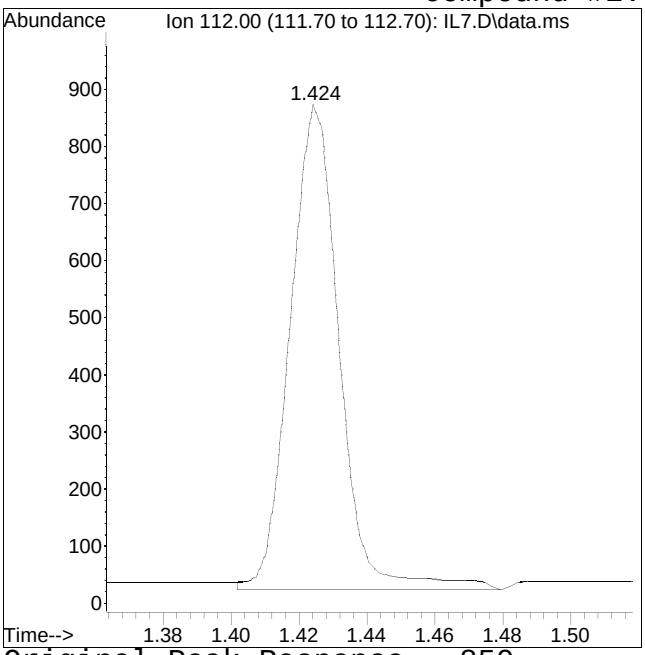
Original Peak Response = 2972 Manual Peak Response = 2982 M1

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

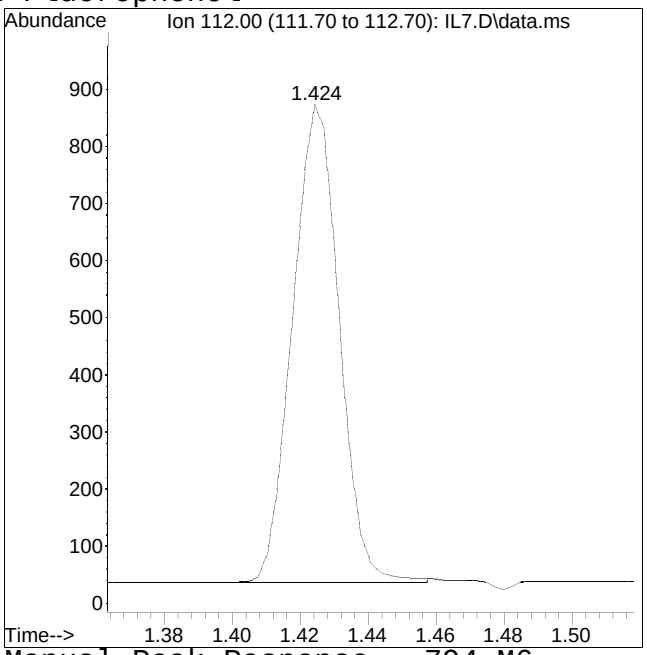
Manual Integration Report

Data Path : I:\8270SIM\SV128\231211LVIQMethod : SIM-LVI_231211_sv128.M
Data File : IL7.D Operator : SV128:dv
Date Inj'd : 12/11/2023 2:17 pm Instrument : SV128
Sample : IL7,32,, 1.0 Lot#10229 Quant Date : 12/15/2023 1:43 pm

Compound #2: 2-Fluorophenol



Original Peak Response = 850



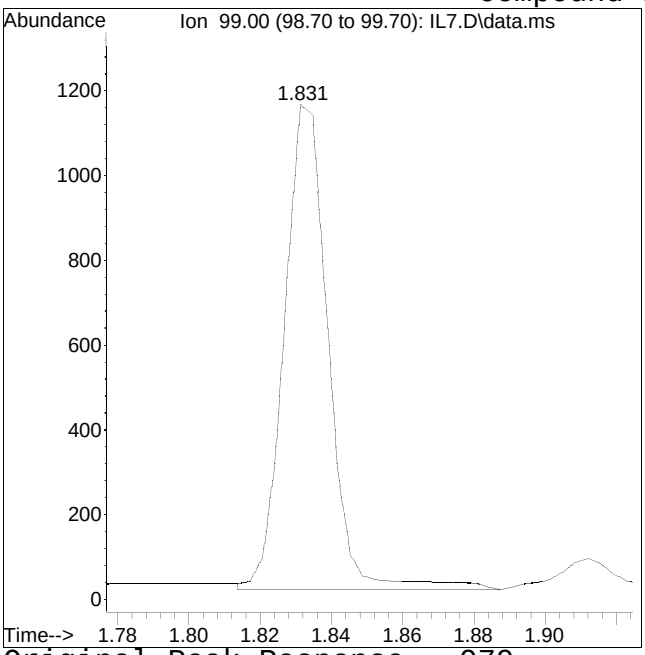
Manual Peak Response = 794 M6

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

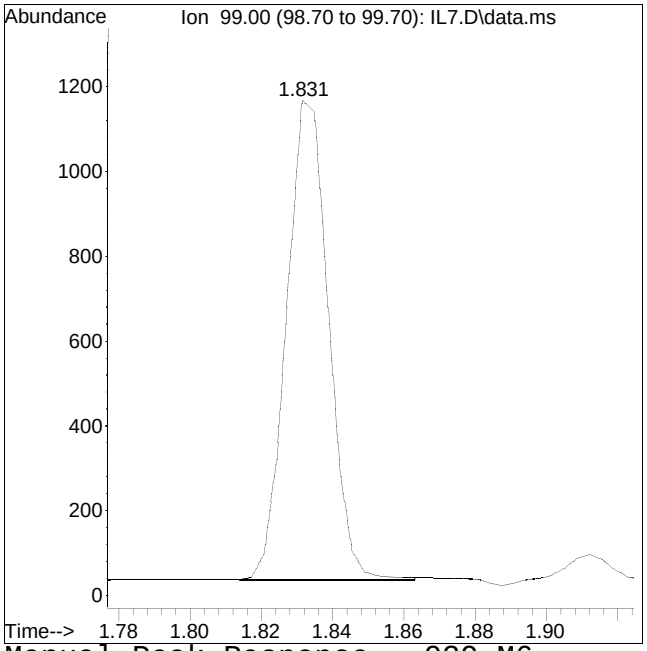
Manual Integration Report

Data Path : I:\8270SIM\SV128\231211LVIQMethod : SIM-LVI_231211_sv128.M
Data File : IL7.D Operator : SV128:dv
Date Inj'd : 12/11/2023 2:17 pm Instrument : SV128
Sample : IL7,32,, 1.0 Lot#10229 Quant Date : 12/15/2023 1:43 pm

Compound #3: Phenol-d6



Original Peak Response = 979



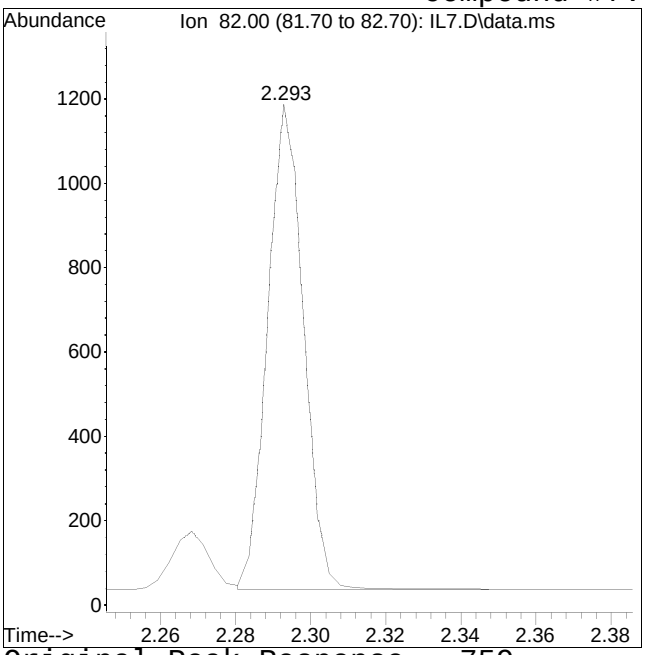
Manual Peak Response = 929 M6

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

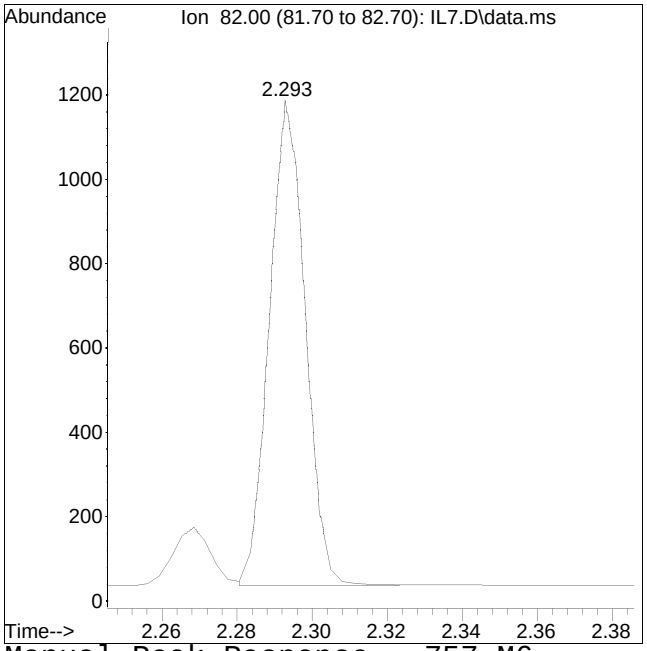
Manual Integration Report

Data Path : I:\8270SIM\SV128\231211LVIQMethod : SIM-LVI_231211_sv128.M
Data File : IL7.D Operator : SV128:dv
Date Inj'd : 12/11/2023 2:17 pm Instrument : SV128
Sample : IL7,32,, 1.0 Lot#10229 Quant Date : 12/15/2023 1:43 pm

Compound #7: Nitrobenzene-d5



Original Peak Response = 759



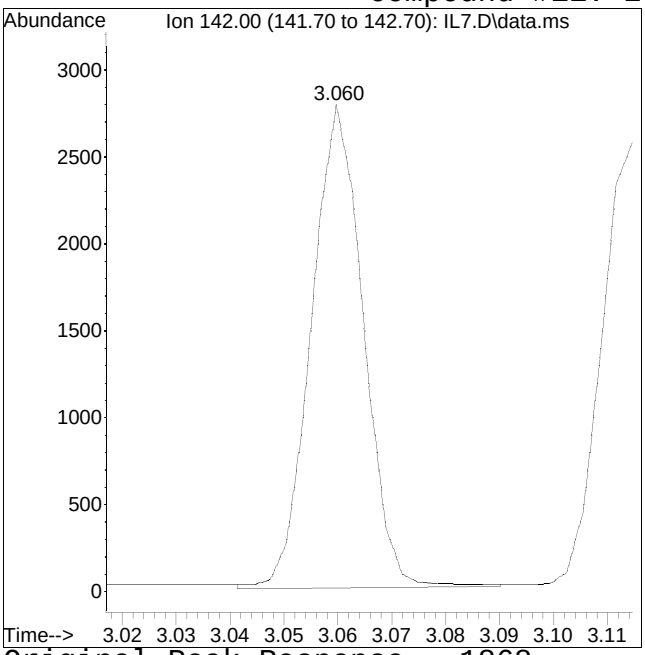
Manual Peak Response = 757 M6

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

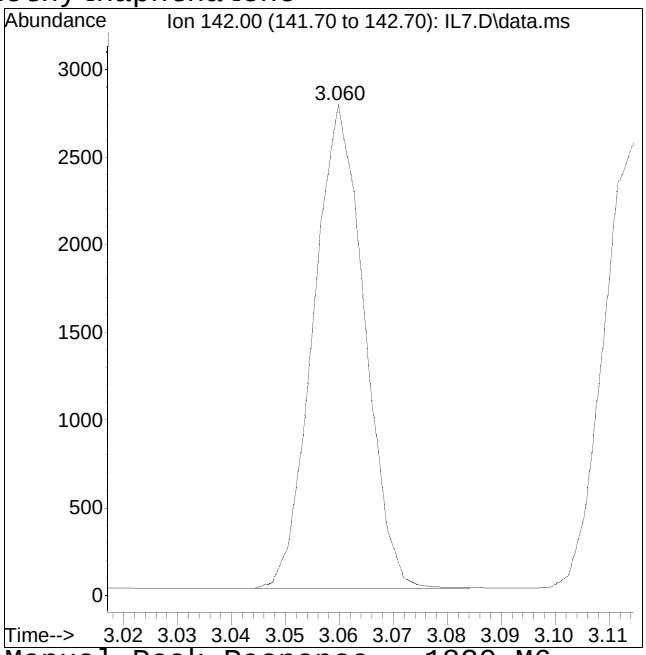
Manual Integration Report

Data Path : I:\8270SIM\SV128\231211LVIQMethod : SIM-LVI_231211_sv128.M
Data File : IL7.D Operator : SV128:dv
Date Inj'd : 12/11/2023 2:17 pm Instrument : SV128
Sample : IL7,32,, 1.0 Lot#10229 Quant Date : 12/15/2023 1:43 pm

Compound #11: 2-Methylnaphthalene



Original Peak Response = 1868



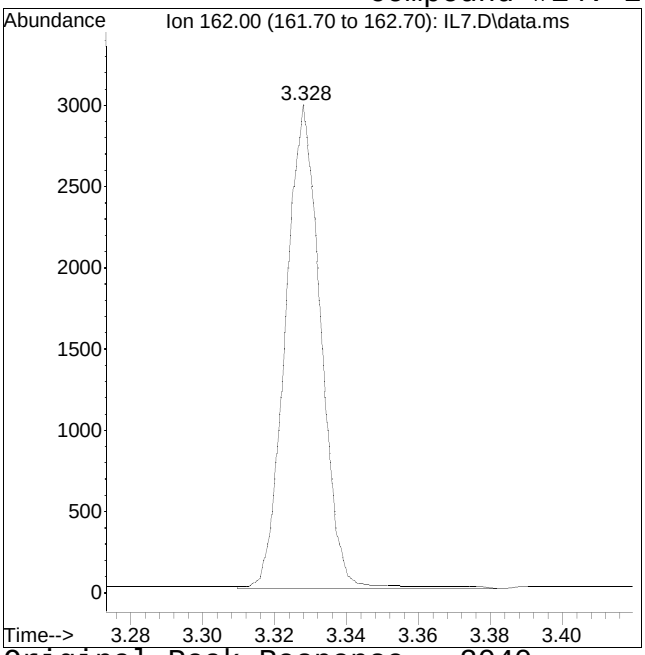
Manual Peak Response = 1820 M6

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

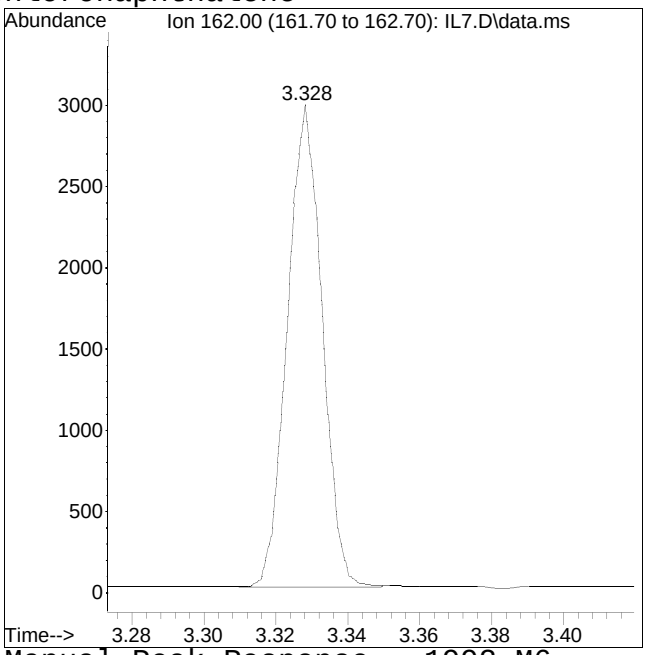
Manual Integration Report

Data Path : I:\8270SIM\SV128\231211LVIQMethod : SIM-LVI_231211_sv128.M
Data File : IL7.D Operator : SV128:dv
Date Inj'd : 12/11/2023 2:17 pm Instrument : SV128
Sample : IL7,32,, 1.0 Lot#10229 Quant Date : 12/15/2023 1:43 pm

Compound #14: 2-Chloronaphthalene



Original Peak Response = 2040



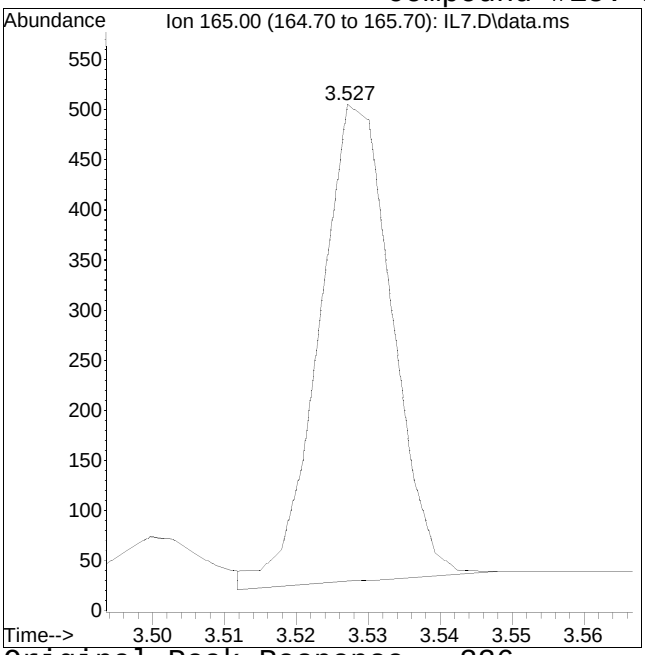
Manual Peak Response = 1992 M6

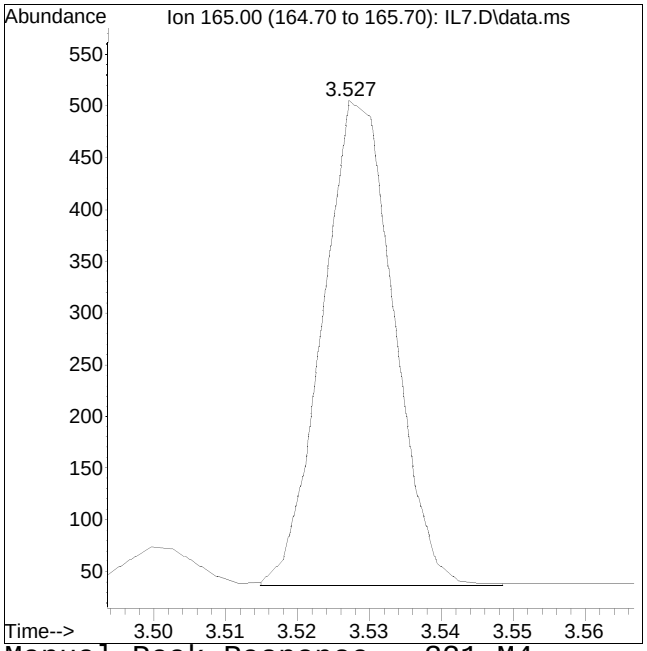
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

Data Path : I:\8270SIM\SV128\231211LVIQMethod : SIM-LVI_231211_sv128.M
Data File : IL7.D Operator : SV128:dv
Date Inj'd : 12/11/2023 2:17 pm Instrument : SV128
Sample : IL7,32,, 1.0 Lot#10229 Quant Date : 12/15/2023 1:43 pm

Compound #15: 2,6-Dinitrotoluene



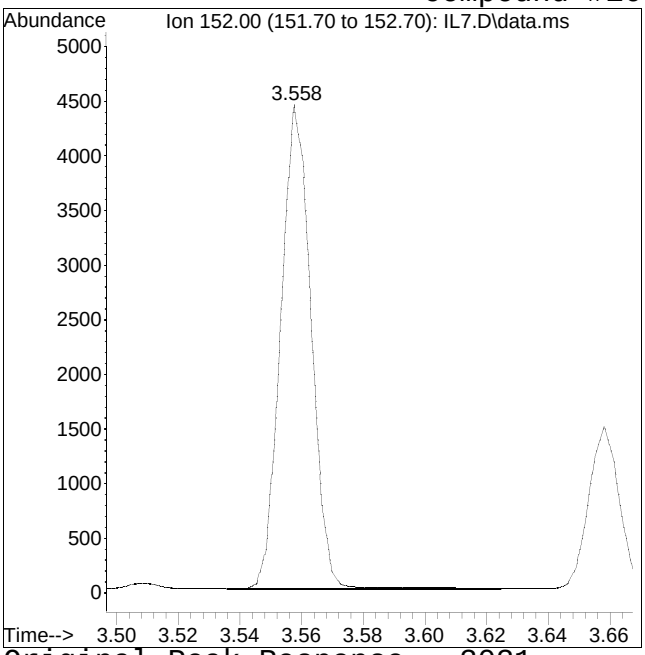


Original Peak Response = 336 Manual Peak Response = 321 M4
M4 = Poor automated baseline construction.

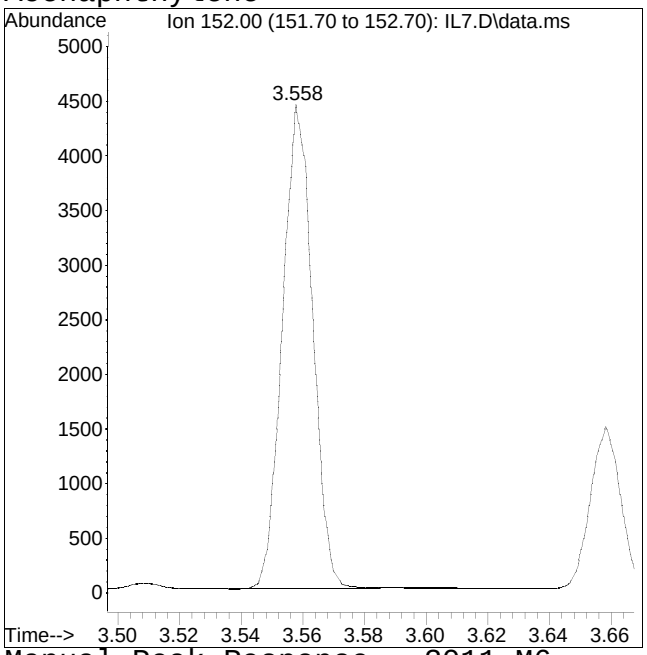
Manual Integration Report

Data Path : I:\8270SIM\SV128\231211LVIQMethod : SIM-LVI_231211_sv128.M
Data File : IL7.D Operator : SV128:dv
Date Inj'd : 12/11/2023 2:17 pm Instrument : SV128
Sample : IL7,32,, 1.0 Lot#10229 Quant Date : 12/15/2023 1:43 pm

Compound #16: Acenaphthylene



Original Peak Response = 3031



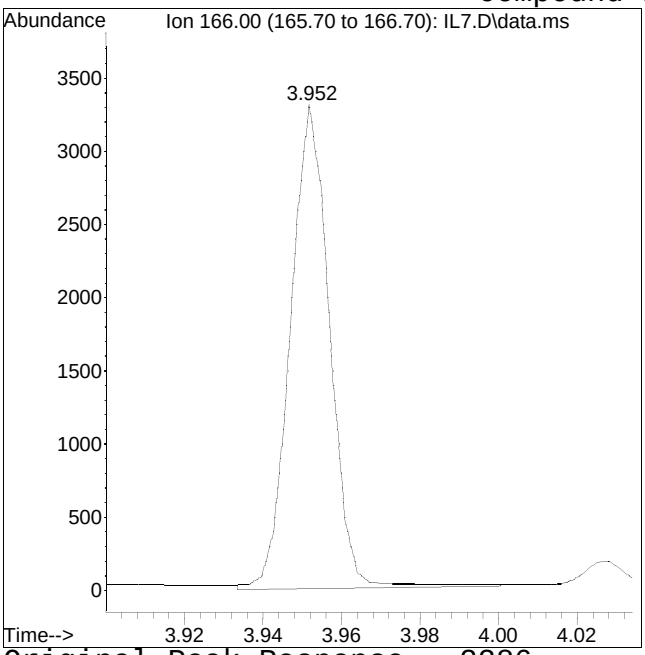
Manual Peak Response = 3011 M6

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

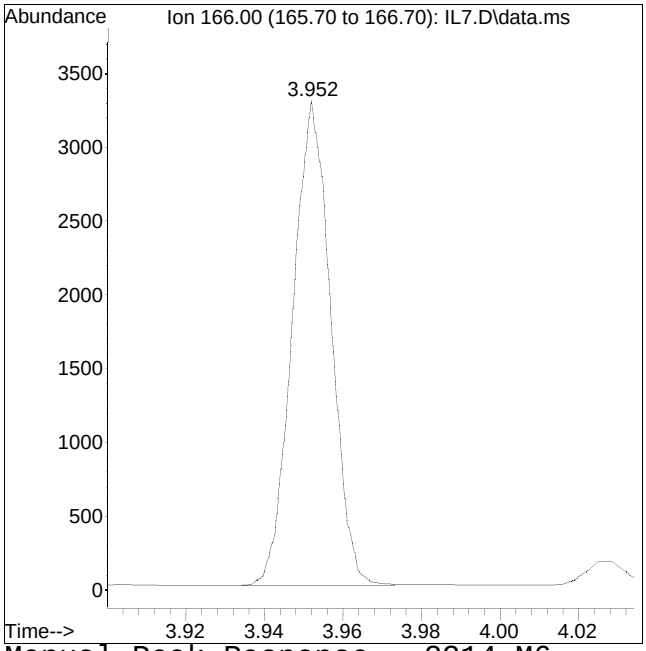
Manual Integration Report

Data Path : I:\8270SIM\SV128\231211LVIQMethod : SIM-LVI_231211_sv128.M
Data File : IL7.D Operator : SV128:dv
Date Inj'd : 12/11/2023 2:17 pm Instrument : SV128
Sample : IL7,32,, 1.0 Lot#10229 Quant Date : 12/15/2023 1:43 pm

Compound #20: Fluorene



Original Peak Response = 2286



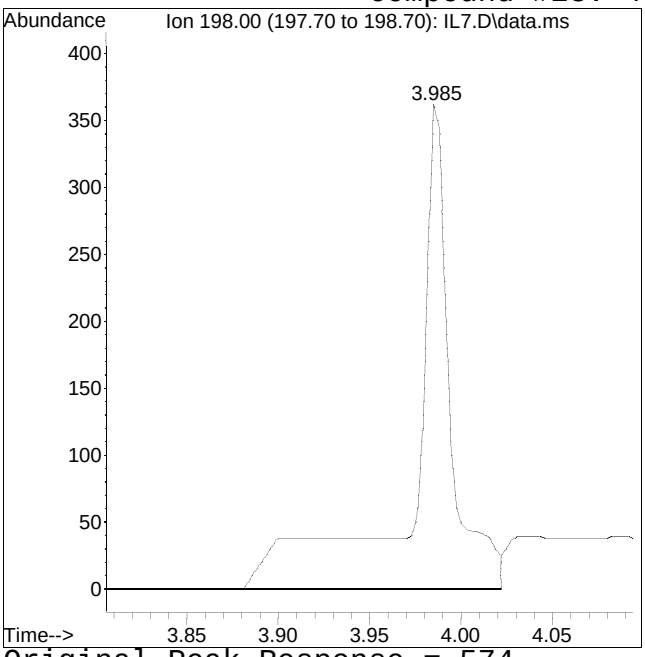
Manual Peak Response = 2214 M6

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

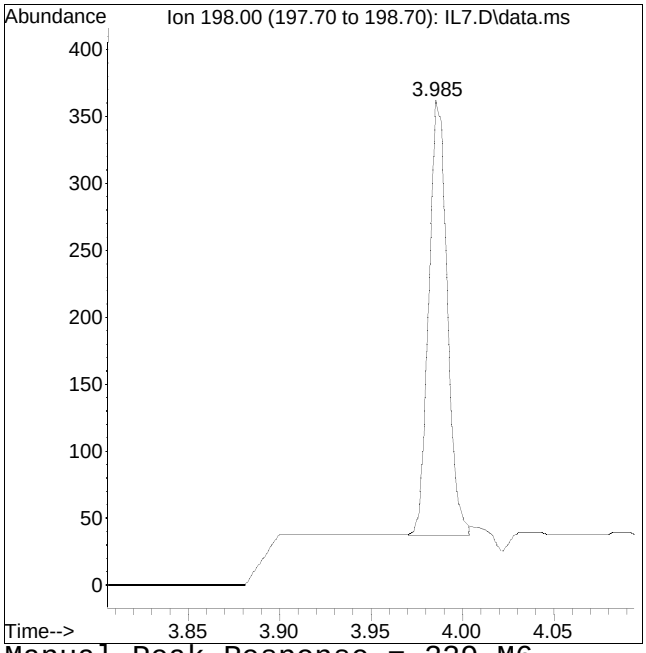
Manual Integration Report

Data Path : I:\8270SIM\SV128\231211LVIQMethod : SIM-LVI_231211_sv128.M
Data File : IL7.D Operator : SV128:dv
Date Inj'd : 12/11/2023 2:17 pm Instrument : SV128
Sample : IL7,32,, 1.0 Lot#10229 Quant Date : 12/15/2023 1:43 pm

Compound #23: 4,6-Dinitro-o-cresol



Original Peak Response = 574



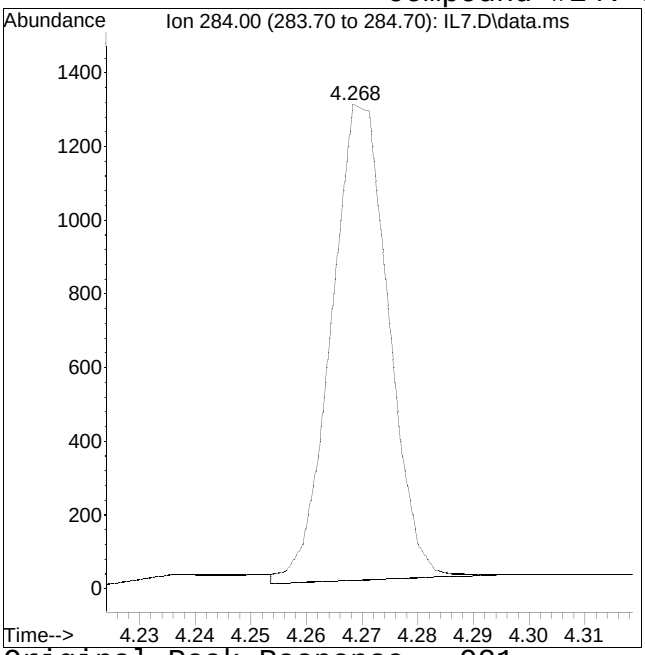
Manual Peak Response = 229 M6

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

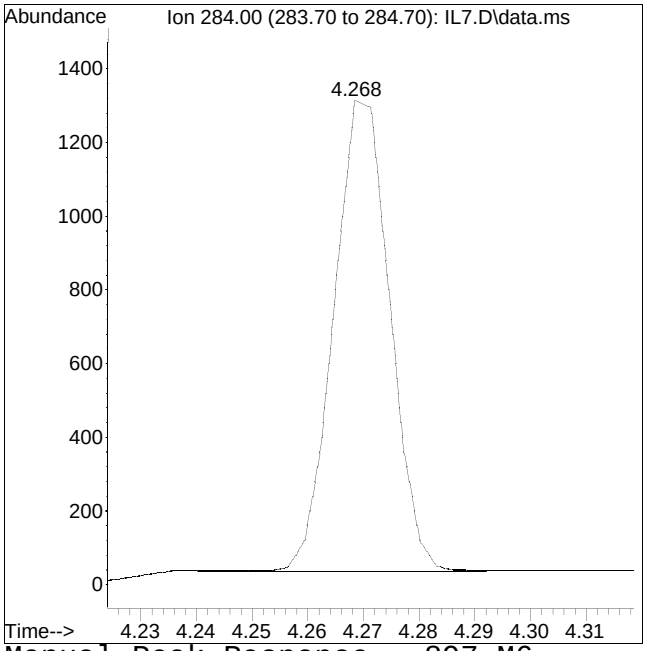
Manual Integration Report

Data Path : I:\8270SIM\SV128\231211LVIQMethod : SIM-LVI_231211_sv128.M
Data File : IL7.D Operator : SV128:dv
Date Inj'd : 12/11/2023 2:17 pm Instrument : SV128
Sample : IL7,32,, 1.0 Lot#10229 Quant Date : 12/15/2023 1:43 pm

Compound #24: Hexachlorobenzene



Original Peak Response = 921



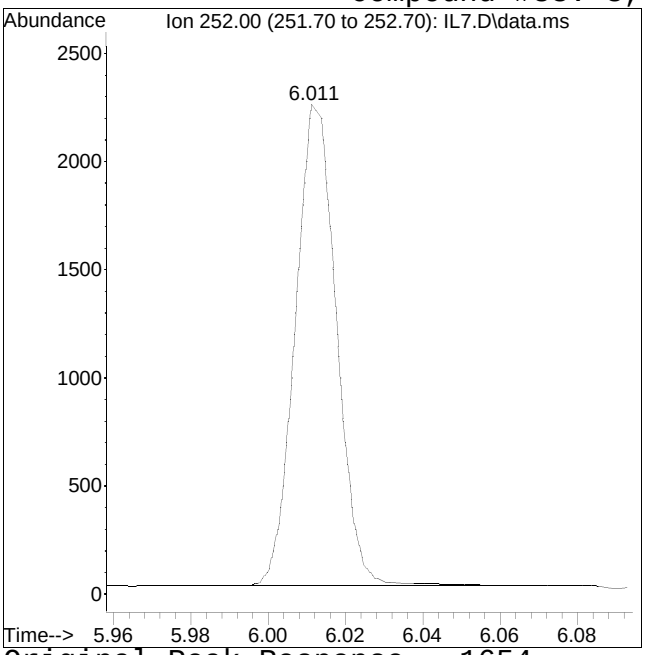
Manual Peak Response = 897 M6

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

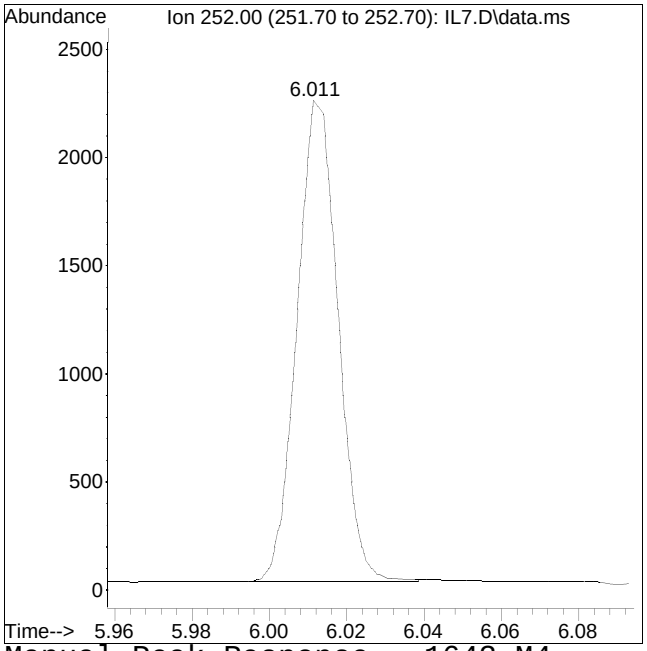
Manual Integration Report

Data Path : I:\8270SIM\SV128\231211LVIQMethod : SIM-LVI_231211_sv128.M
Data File : IL7.D Operator : SV128:dv
Date Inj'd : 12/11/2023 2:17 pm Instrument : SV128
Sample : IL7,32,, 1.0 Lot#10229 Quant Date : 12/15/2023 1:43 pm

Compound #33: 3,3'-Dichlorobenzidine



Original Peak Response = 1654



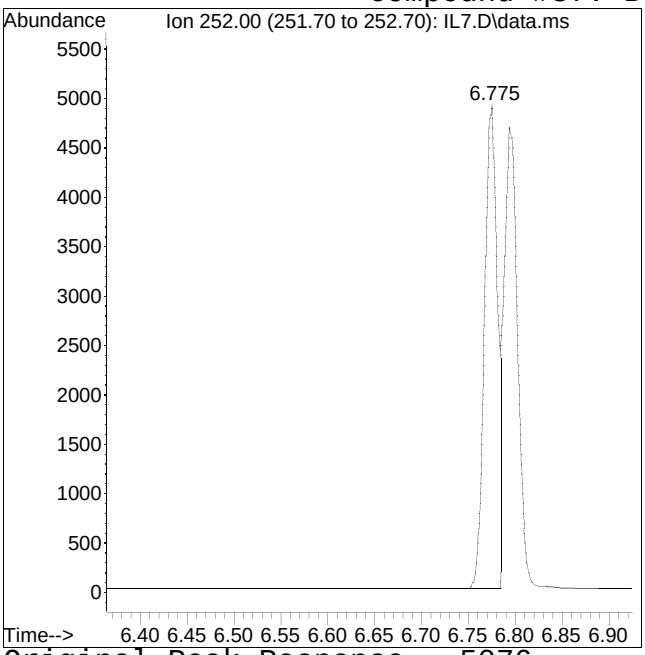
Manual Peak Response = 1643 M4

M4 = Poor automated baseline construction.

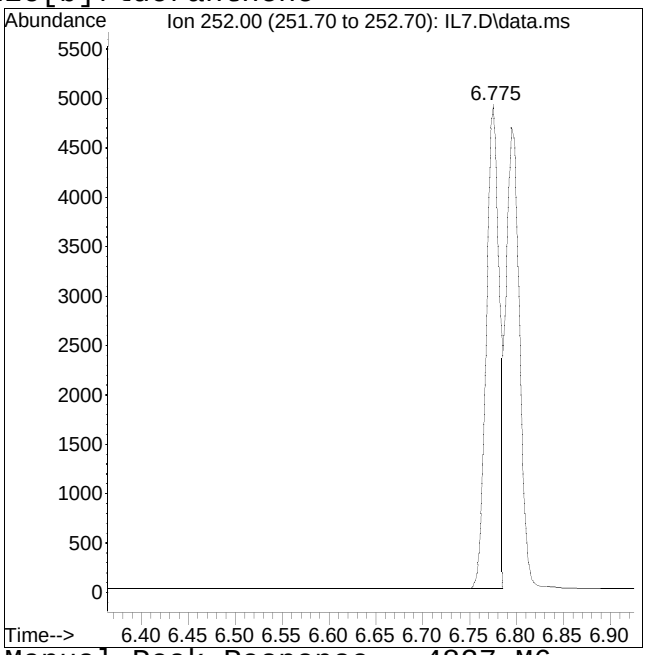
Manual Integration Report

Data Path : I:\8270SIM\SV128\231211LVIQMethod : SIM-LVI_231211_sv128.M
Data File : IL7.D Operator : SV128:dv
Date Inj'd : 12/11/2023 2:17 pm Instrument : SV128
Sample : IL7,32,, 1.0 Lot#10229 Quant Date : 12/15/2023 1:43 pm

Compound #37: Benzo[b]fluoranthene



Original Peak Response = 5076



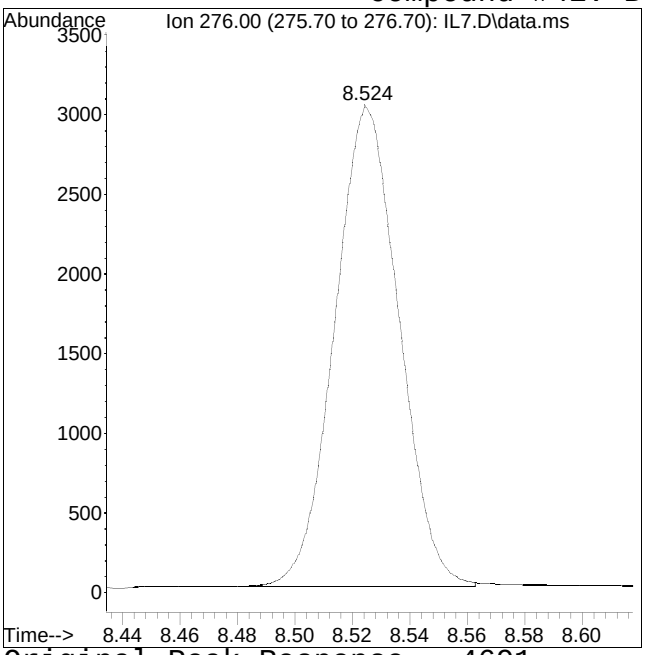
Manual Peak Response = 4827 M6

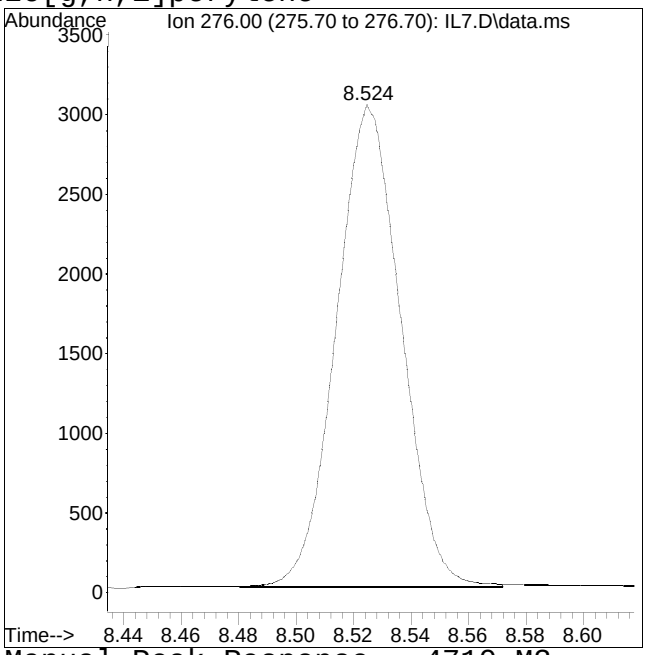
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

Data Path : I:\8270SIM\SV128\231211LVIQMethod : SIM-LVI_231211_sv128.M
Data File : IL7.D Operator : SV128:dv
Date Inj'd : 12/11/2023 2:17 pm Instrument : SV128
Sample : IL7,32,, 1.0 Lot#10229 Quant Date : 12/15/2023 1:43 pm

Compound #42: Benzo[g,h,i]perylene





Original Peak Response = 4691 Manual Peak Response = 4710 M3

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV128\231211LVIical\
Data File : IL6.D
Acq On : 11 Dec 2023 02:33 pm
Operator : SV128:dv
Sample : IL6,32,, 0.25 Lot#10230
Misc : WG1864557,,ical
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 18 10:39:18 2023
Quant Method : I:\8270SIM\SV128\231211LVIical\SIM-LVI_231211_sv128.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Dec 15 13:43:04 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\SV128\231211LVIical\IL7.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.014	152	3344	4000.000	ng/ml	0.00
Standard Area 1 = 2982			Recovery = 112.14%			
8) Naphthalene-d8	2.670	136	11366	4000.000	ng/ml	0.00
Standard Area 1 = 10566			Recovery = 107.57%			
17) Acenaphthene-d10	3.642	164	5935	4000.000	ng/ml	0.00
Standard Area 1 = 6070			Recovery = 97.78%			
22) Phenanthrene-d10	4.483	188	11352	4000.000	ng/ml	0.00
Standard Area 1 = 13526			Recovery = 83.93%			
31) Chrysene-d12	6.018	240	8420	4000.000	ng/ml	0.00
Standard Area 1 = 12766			Recovery = 65.96%			
36) Perylene-d12	7.103	264	9369	4000.000	ng/ml	0.00
Standard Area 1 = 15405			Recovery = 60.82%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.424	112	215	255.322	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 5.11%#			
3) Phenol-d6	1.834	99	245M6	248.954	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 4.98%#			
7) Nitrobenzene-d5	2.295	82	193	242.673	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 9.71%#			
13) 2-Fluorobiphenyl	3.269	172	585	239.530	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 9.58%#			
21) 2,4,6-Tribromophenol	4.091	330	65	219.164	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 4.38%#			
30) 4-Terphenyl-d14	5.419	244	515	217.756	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 8.71%#			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	1.887	93	209M1	245.492	ng/ml	
5) n-nitrosodi-n-propylamine	2.221	70	141	228.186	ng/ml	98
6) Hexachloroethane	2.270	117	102	255.358	ng/ml	99
9) Naphthalene	2.683	128	740	253.881	ng/ml#	100
10) Hexachlorobutadiene	2.759	225	167	250.121	ng/ml	100
11) 2-Methylnaphthalene	3.062	142	465	249.732	ng/ml	100
12) 1-Methylnaphthalene	3.116	142	427	243.515	ng/ml	98
14) 2-Chloronaphthalene	3.330	162	496	244.688	ng/ml	100
15) 2,6-Dinitrotoluene	3.529	165	65M4	196.996	ng/ml	
16) Acenaphthylene	3.559	152	707	233.904	ng/ml	99

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV128\231211LVIical\
Data File : IL6.D
Acq On : 11 Dec 2023 02:33 pm
Operator : SV128:dv
Sample : IL6,32,, 0.25 Lot#10230
Misc : WG1864557,,ical
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 18 10:39:18 2023
Quant Method : I:\8270SIM\SV128\231211LVIical\SIM-LVI_231211_sv128.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Dec 15 13:43:04 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\SV128\231211LVIical\IL7.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
18) Acenaphthene	3.660	153	498M6	247.610	ng/ml	
19) 2,4-Dinitrotoluene	3.758	165	79	200.048	ng/ml	93
20) Fluorene	3.954	166	492M6	242.728	ng/ml	
23) 4,6-Dinitro-o-cresol	3.987	198	40M6	200.689	ng/ml	
24) Hexachlorobenzene	4.270	284	190M6	253.732	ng/ml	
25) Pentachlorophenol	4.385	266	65	208.935	ng/ml	95
26) Phenanthrene	4.498	178	754	245.626	ng/ml	97
27) Anthracene	4.527	178	720	242.741	ng/ml	100
28) Fluoranthene	5.183	202	817	239.675	ng/ml	98
29) Pyrene	5.311	202	794	227.549	ng/ml	99
32) Benzo[a]anthracene	6.013	228	739	211.612	ng/ml	98
33) 3,3'-Dichlorobenzidine	6.010	252	275	249.939	ng/ml#	95
34) Chrysene	6.034	228	731	251.833	ng/ml	98
35) Bis(2-ethylhexyl)phtha...	6.070	149	271	191.760	ng/ml	99
37) Benzo[b]fluoranthene	6.773	252	707M6	242.008	ng/ml	
38) Benzo[k]fluoranthene	6.795	252	666	246.664	ng/ml	100
39) Benzo[a]pyrene	7.046	252	628	245.799	ng/ml	95
40) Indeno[1,2,3-cd]pyrene	8.209	276	641	250.906	ng/ml	94
41) Dibenzo[a,h]anthracene	8.251	278	626	252.017	ng/ml	99
42) Benzo[g,h,i]perylene	8.519	276	690	257.139	ng/ml	99

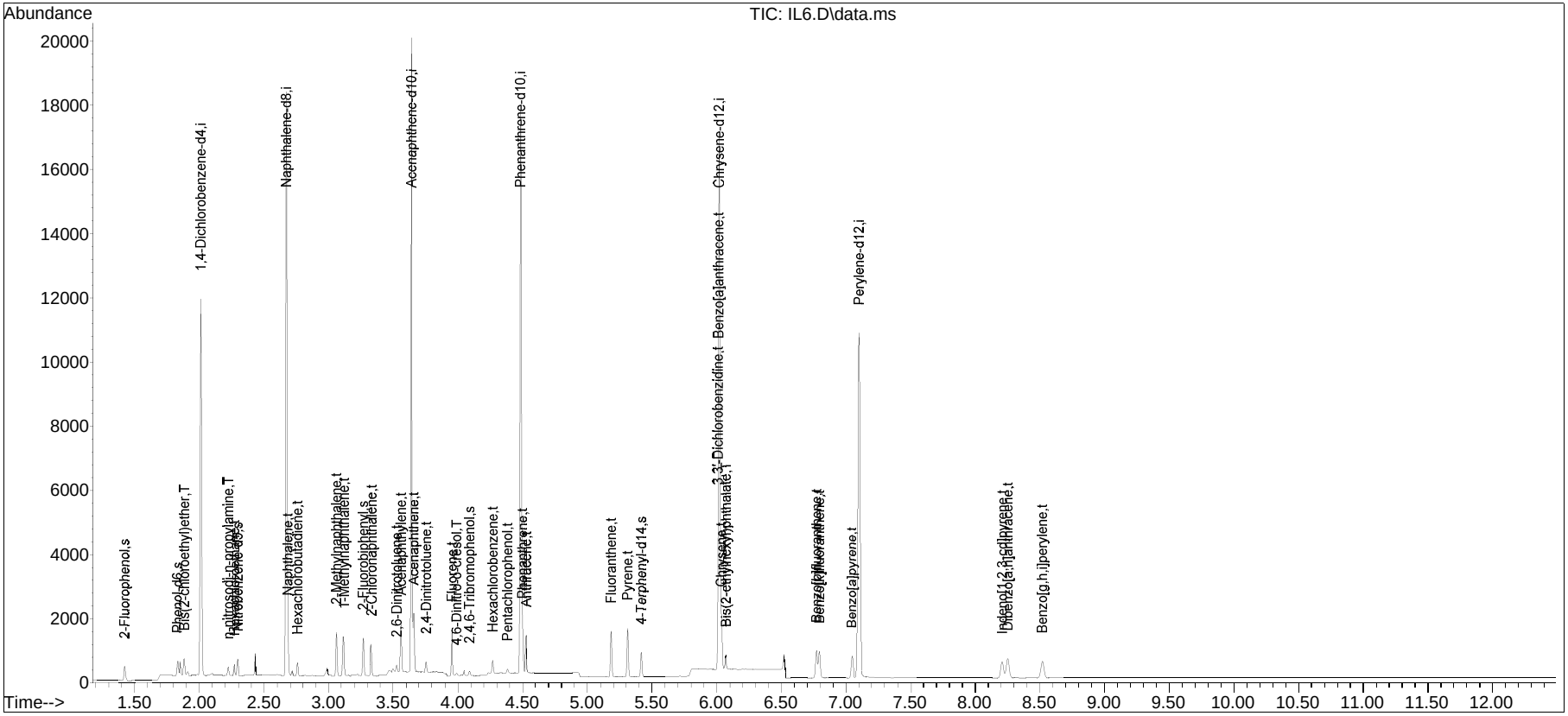
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV128\231211LVIical\
Data File : IL6.D
Acq On : 11 Dec 2023 02:33 pm
Operator : SV128:dv
Sample : IL6,32,, 0.25 Lot#10230
Misc : WG1864557,,ical
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 18 10:39:18 2023
Quant Method : I:\8270SIM\SV128\231211LVIical\SIM-LVI_231211_sv128.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Dec 15 13:43:04 2023
Response via : Initial Calibration

Sub List : Default - All compounds listedical\IL7.D•

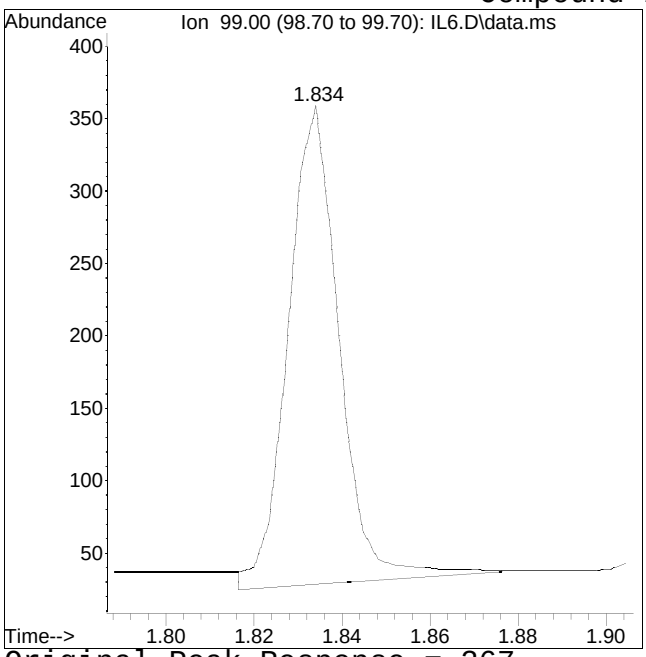


Manual Integration Report

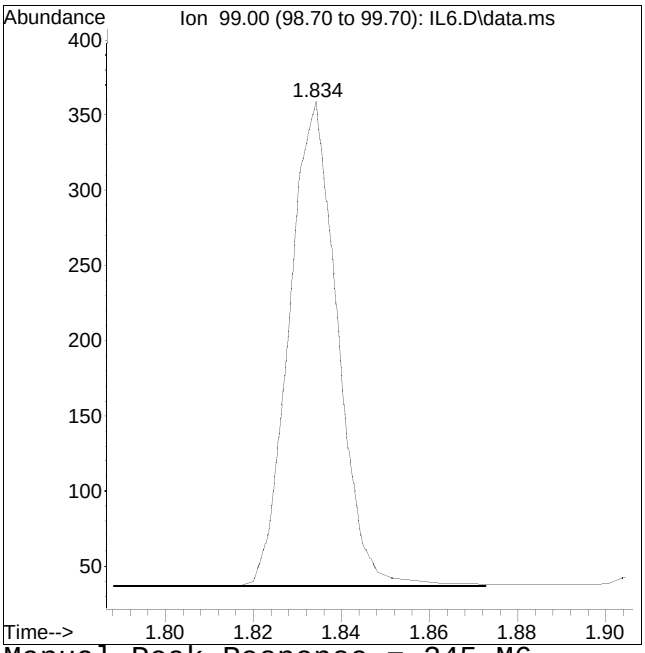
Data Path : I:\8270SIM\SV128\231211LVIQ
Data File : IL6.D
Date Inj'd : 12/11/2023 2:33 pm
Sample : IL6,32,, 0.25 Lot#10230

Method : SIM-LVI_231211_sv128.M
Operator : SV128:dv
Instrument : SV128
Quant Date : 12/15/2023 1:43 pm

Compound #3: Phenol-d6



Original Peak Response = 267



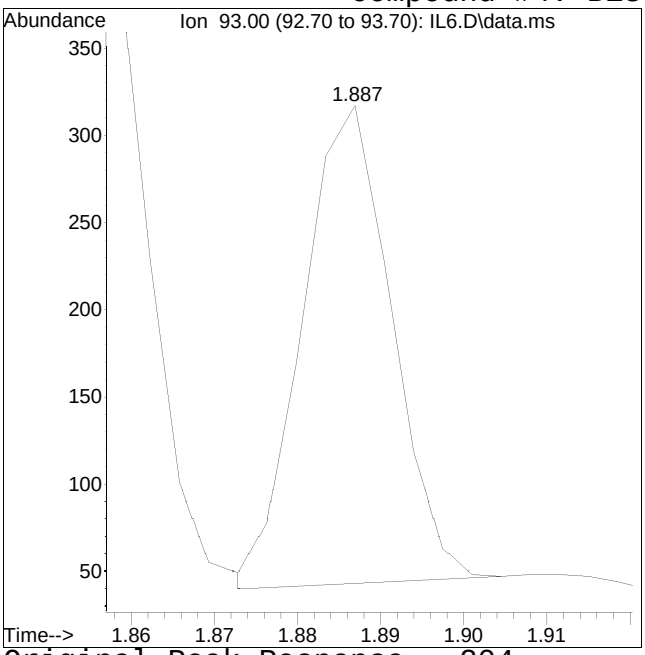
Manual Peak Response = 245 M6

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

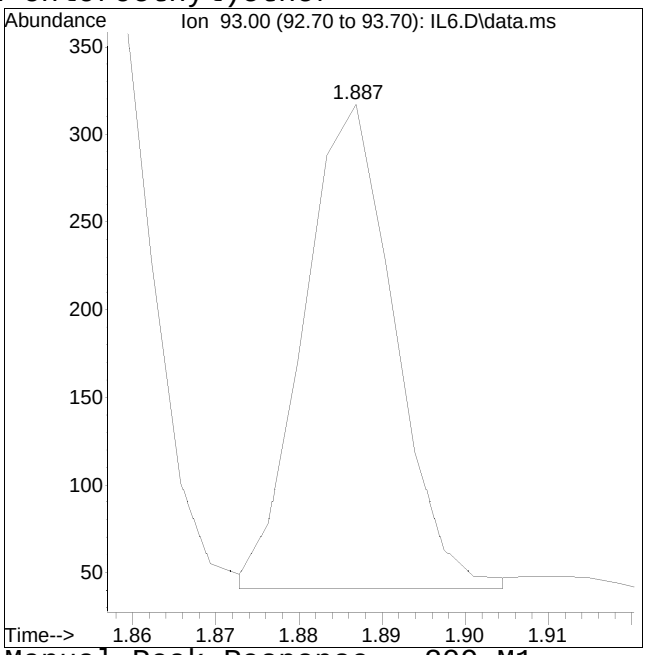
Manual Integration Report

Data Path : I:\8270SIM\SV128\231211LVIQMethod : SIM-LVI_231211_sv128.M
Data File : IL6.D Operator : SV128:dv
Date Inj'd : 12/11/2023 2:33 pm Instrument : SV128
Sample : IL6,32,, 0.25 Lot#10230 Quant Date : 12/15/2023 1:43 pm

Compound #4: Bis(2-chloroethyl)ether



Original Peak Response = 204



Manual Peak Response = 209 M1

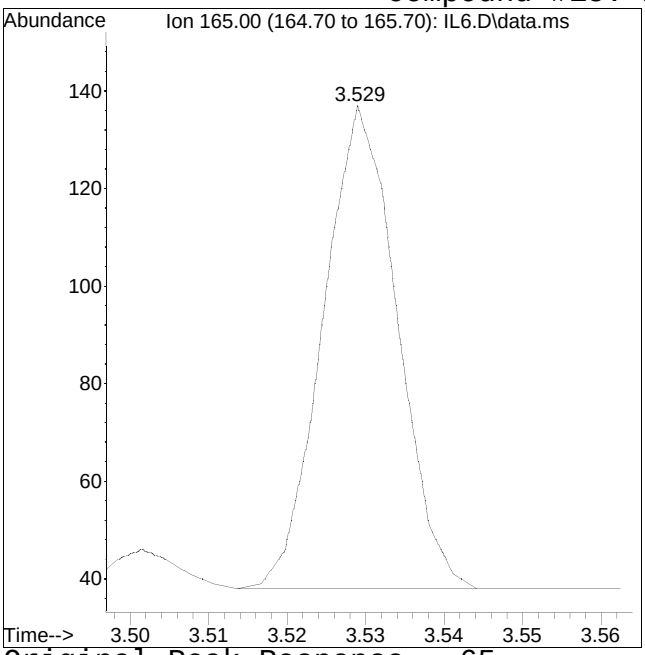
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

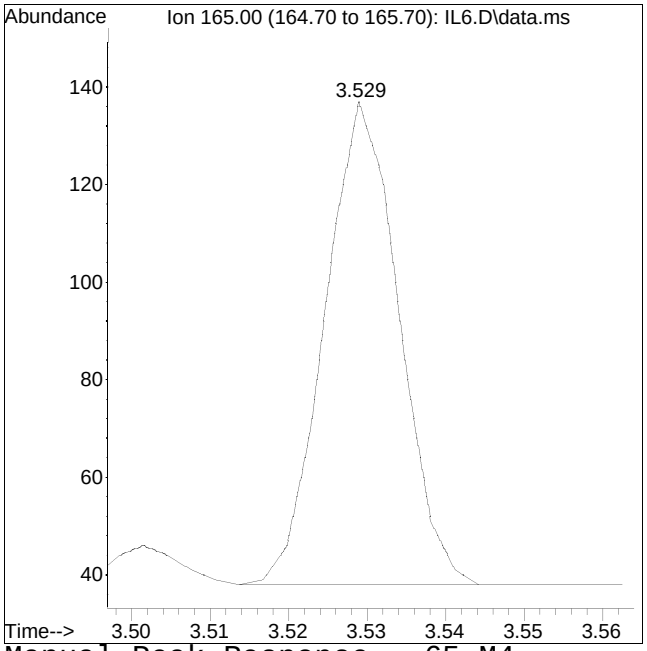
Data Path : I:\8270SIM\SV128\231211LVIQ
Data File : IL6.D
Date Inj'd : 12/11/2023 2:33 pm
Sample : IL6,32,, 0.25 Lot#10230

Method : SIM-LVI_231211_sv128.M
Operator : SV128:dv
Instrument : SV128
Quant Date : 12/15/2023 1:43 pm

Compound #15: 2,6-Dinitrotoluene



Original Peak Response = 65



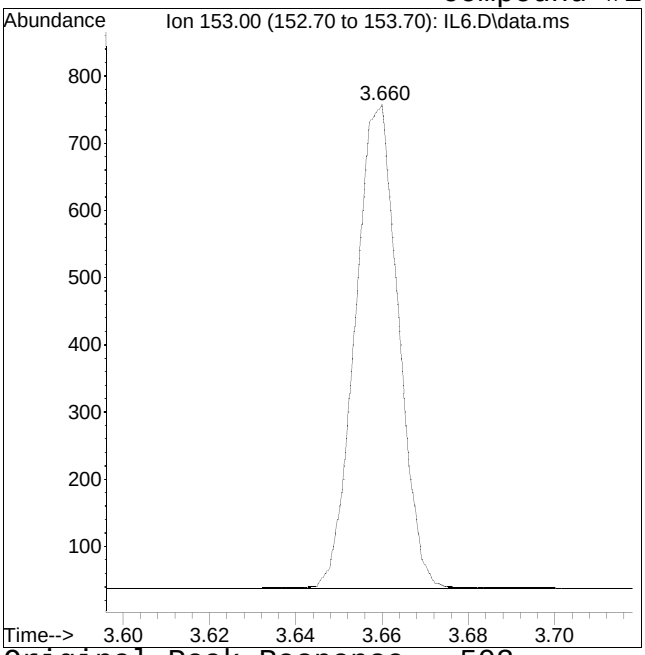
Manual Peak Response = 65 M4

M4 = Poor automated baseline construction.

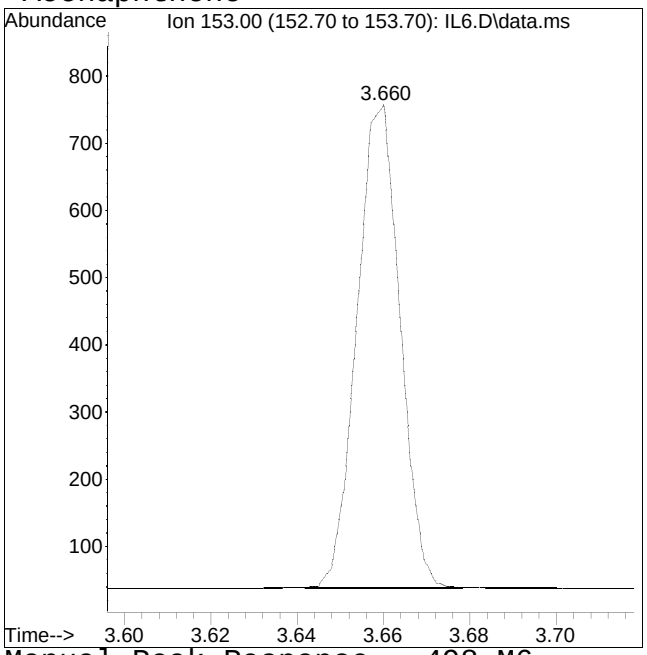
Manual Integration Report

Data Path : I:\8270SIM\SV128\231211LVIQMethod : SIM-LVI_231211_sv128.M
Data File : IL6.D Operator : SV128:dv
Date Inj'd : 12/11/2023 2:33 pm Instrument : SV128
Sample : IL6,32,, 0.25 Lot#10230 Quant Date : 12/15/2023 1:43 pm

Compound #18: Acenaphthene



Original Peak Response = 503



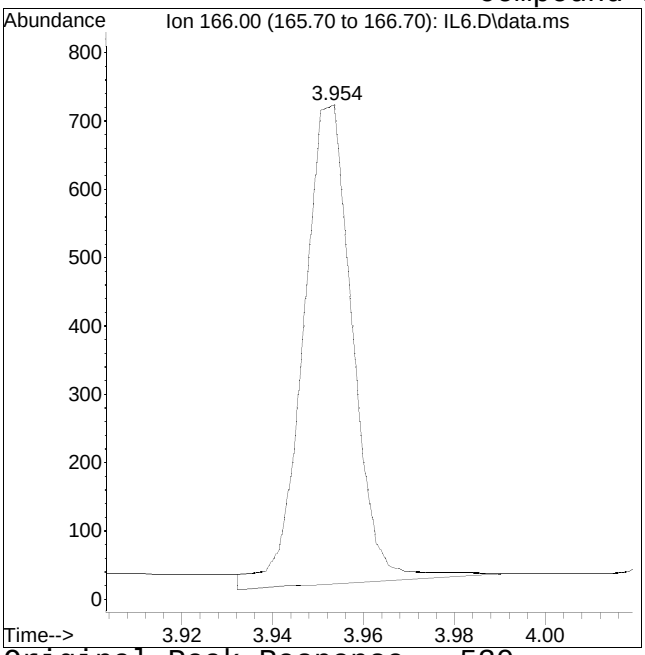
Manual Peak Response = 498 M6

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

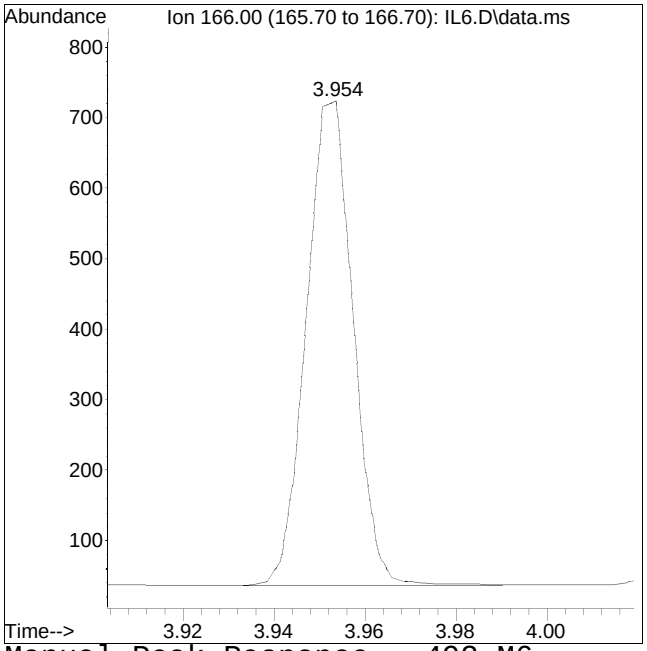
Manual Integration Report

Data Path : I:\8270SIM\SV128\231211LVIQMethod : SIM-LVI_231211_sv128.M
Data File : IL6.D Operator : SV128:dv
Date Inj'd : 12/11/2023 2:33 pm Instrument : SV128
Sample : IL6,32,, 0.25 Lot#10230 Quant Date : 12/15/2023 1:43 pm

Compound #20: Fluorene



Original Peak Response = 530



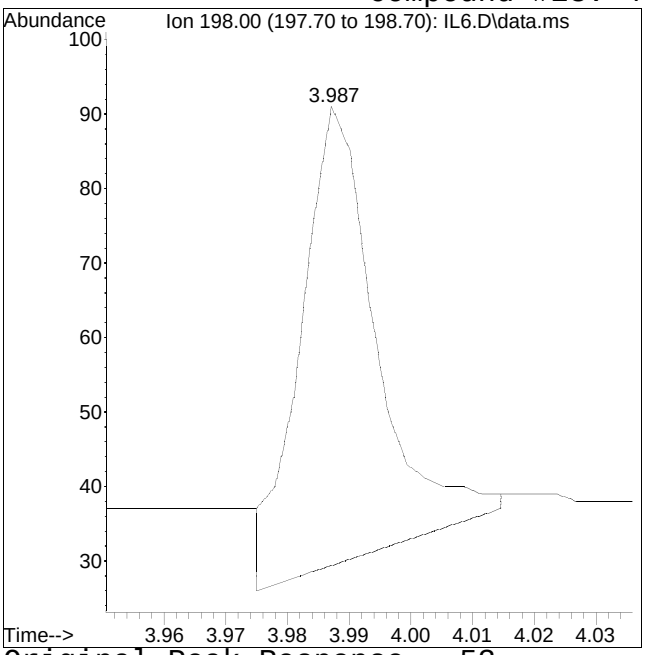
Manual Peak Response = 492 M6

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

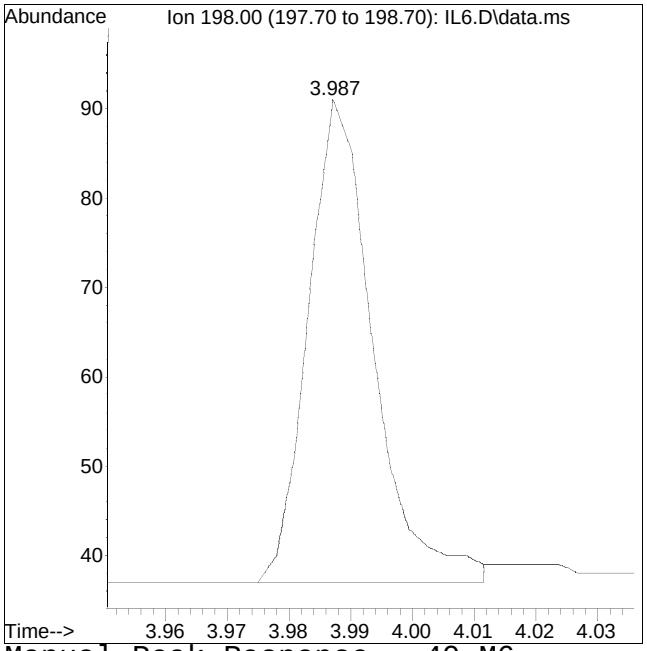
Manual Integration Report

Data Path : I:\8270SIM\SV128\231211LVIQMethod : SIM-LVI_231211_sv128.M
Data File : IL6.D Operator : SV128:dv
Date Inj'd : 12/11/2023 2:33 pm Instrument : SV128
Sample : IL6,32,, 0.25 Lot#10230 Quant Date : 12/15/2023 1:43 pm

Compound #23: 4,6-Dinitro-o-cresol



Original Peak Response = 53



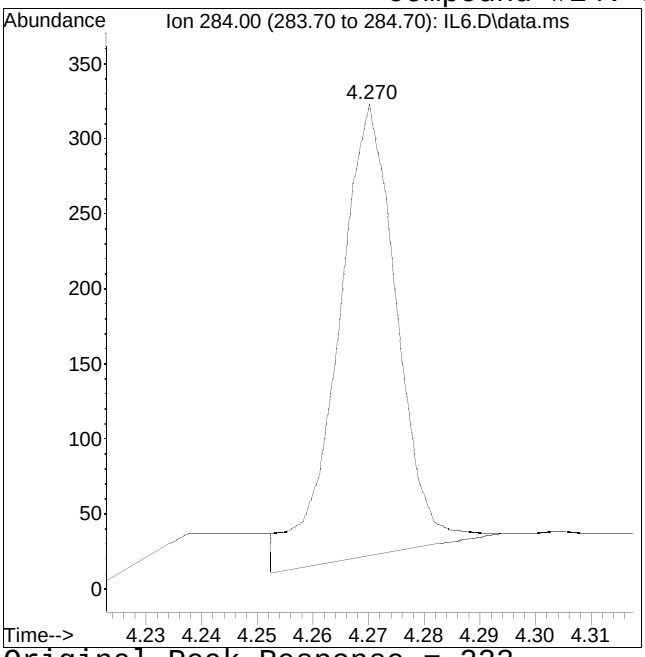
Manual Peak Response = 40 M6

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

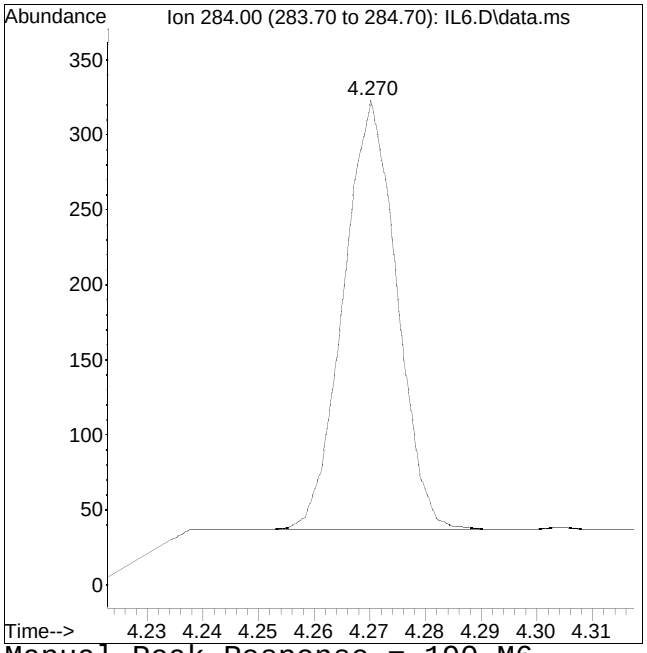
Manual Integration Report

Data Path : I:\8270SIM\SV128\231211LVIQMethod : SIM-LVI_231211_sv128.M
Data File : IL6.D Operator : SV128:dv
Date Inj'd : 12/11/2023 2:33 pm Instrument : SV128
Sample : IL6,32,, 0.25 Lot#10230 Quant Date : 12/15/2023 1:43 pm

Compound #24: Hexachlorobenzene



Original Peak Response = 223



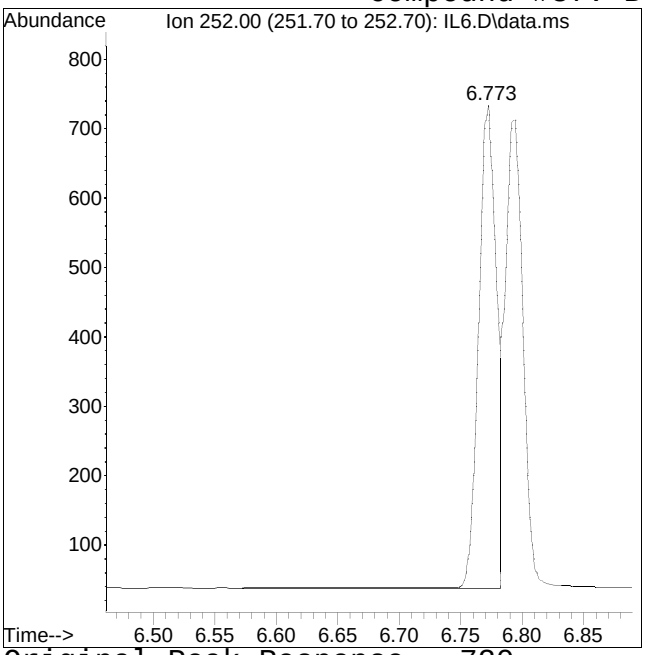
Manual Peak Response = 190 M6

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

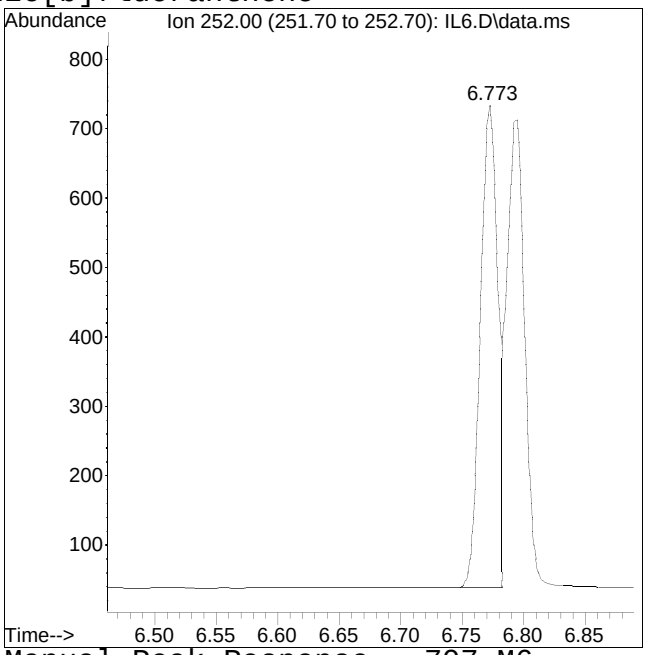
Manual Integration Report

Data Path : I:\8270SIM\SV128\231211LVIQMethod : SIM-LVI_231211_sv128.M
Data File : IL6.D Operator : SV128:dv
Date Inj'd : 12/11/2023 2:33 pm Instrument : SV128
Sample : IL6,32,, 0.25 Lot#10230 Quant Date : 12/15/2023 1:43 pm

Compound #37: Benzo[b]fluoranthene



Original Peak Response = 720



Manual Peak Response = 707 M6

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV128\231211LVIical\
Data File : IL5.D
Acq On : 11 Dec 2023 02:50 pm
Operator : SV128:dv
Sample : IL5,32,, 0.1 Lot#10231
Misc : WG1864557,,ical
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 18 10:43:34 2023
Quant Method : I:\8270SIM\SV128\231211LVIical\SIM-LVI_231211_sv128.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Dec 15 14:30:01 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\SV128\231211LVIical\IL7.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.016	152	3863	4000.000	ng/ml	0.00
Standard Area 1 = 2982			Recovery = 129.54%			
8) Naphthalene-d8	2.673	136	13403	4000.000	ng/ml	0.00
Standard Area 1 = 10566			Recovery = 126.85%			
17) Acenaphthene-d10	3.641	164	7249	4000.000	ng/ml	0.00
Standard Area 1 = 6070			Recovery = 119.42%			
22) Phenanthrene-d10	4.482	188	14396	4000.000	ng/ml	0.00
Standard Area 1 = 13526			Recovery = 106.43%			
31) Chrysene-d12	6.018	240	10750	4000.000	ng/ml	0.00
Standard Area 1 = 12766			Recovery = 84.21%			
36) Perylene-d12	7.100	264	11570	4000.000	ng/ml	0.00
Standard Area 1 = 15405			Recovery = 75.11%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.427	112	95	97.660	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 1.95%#			
3) Phenol-d6	1.836	99	111M6	97.638	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 1.95%#			
7) Nitrobenzene-d5	2.297	82	90	97.960	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 3.92%#			
13) 2-Fluorobiphenyl	3.271	172	282	99.212	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 3.97%#			
21) 2,4,6-Tribromophenol	4.090	330	31	85.578	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 1.71%#			
30) 4-Terphenyl-d14	5.418	244	268	89.357	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 3.57%#			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	1.889	93	99M6	101.961	ng/ml	
5) n-nitrosodi-n-propylamine	2.224	70	64M6	90.419	ng/ml	
6) Hexachloroethane	2.270	117	48	104.042	ng/ml	98
9) Naphthalene	2.682	128	346	100.666	ng/ml#	99
10) Hexachlorobutadiene	2.758	225	79	100.339	ng/ml	98
11) 2-Methylnaphthalene	3.061	142	221	100.652	ng/ml	99
12) 1-Methylnaphthalene	3.116	142	204	98.659	ng/ml	99
14) 2-Chloronaphthalene	3.329	162	239	99.986	ng/ml	99
15) 2,6-Dinitrotoluene	3.528	165	30M7	98.152	ng/ml	
16) Acenaphthylene	3.559	152	345M6	97.432	ng/ml	

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV128\231211LVIical\
Data File : IL5.D
Acq On : 11 Dec 2023 02:50 pm
Operator : SV128:dv
Sample : IL5,32,, 0.1 Lot#10231
Misc : WG1864557,,ical
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 18 10:43:34 2023
Quant Method : I:\8270SIM\SV128\231211LVIical\SIM-LVI_231211_sv128.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Dec 15 14:30:01 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\SV128\231211LVIical\IL7.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
18) Acenaphthene	3.660	153	246	100.389	ng/ml	98
19) 2,4-Dinitrotoluene	3.757	165	37	98.564	ng/ml	89
20) Fluorene	3.953	166	245M6	99.066	ng/ml	
23) 4,6-Dinitro-o-cresol	3.987	198	18M4	122.436	ng/ml	
24) Hexachlorobenzene	4.270	284	96M6	100.216	ng/ml	
25) Pentachlorophenol	4.385	266	27	69.591	ng/ml	99
26) Phenanthrene	4.497	178	386	99.156	ng/ml	96
27) Anthracene	4.527	178	365	97.036	ng/ml	98
28) Fluoranthene	5.183	202	414M4	96.800	ng/ml	
29) Pyrene	5.311	202	408	92.203	ng/ml	98
32) Benzo[a]anthracene	6.012	228	395M4	90.967	ng/ml	
33) 3,3'-Dichlorobenzidine	6.010	252	124M4	98.033	ng/ml	
34) Chrysene	6.034	228	375	101.185	ng/ml	98
35) Bis(2-ethylhexyl)phtha...	6.069	149	135	120.644	ng/ml	99
37) Benzo[b]fluoranthene	6.770	252	367M7	102.428	ng/ml	
38) Benzo[k]fluoranthene	6.792	252	313	93.872	ng/ml	100
39) Benzo[a]pyrene	7.046	252	304	96.351	ng/ml	100
40) Indeno[1,2,3-cd]pyrene	8.209	276	306M6	96.992	ng/ml	
41) Dibenzo[a,h]anthracene	8.250	278	288M6	93.887	ng/ml	
42) Benzo[g,h,i]perylene	8.519	276	323	98.498	ng/ml	100

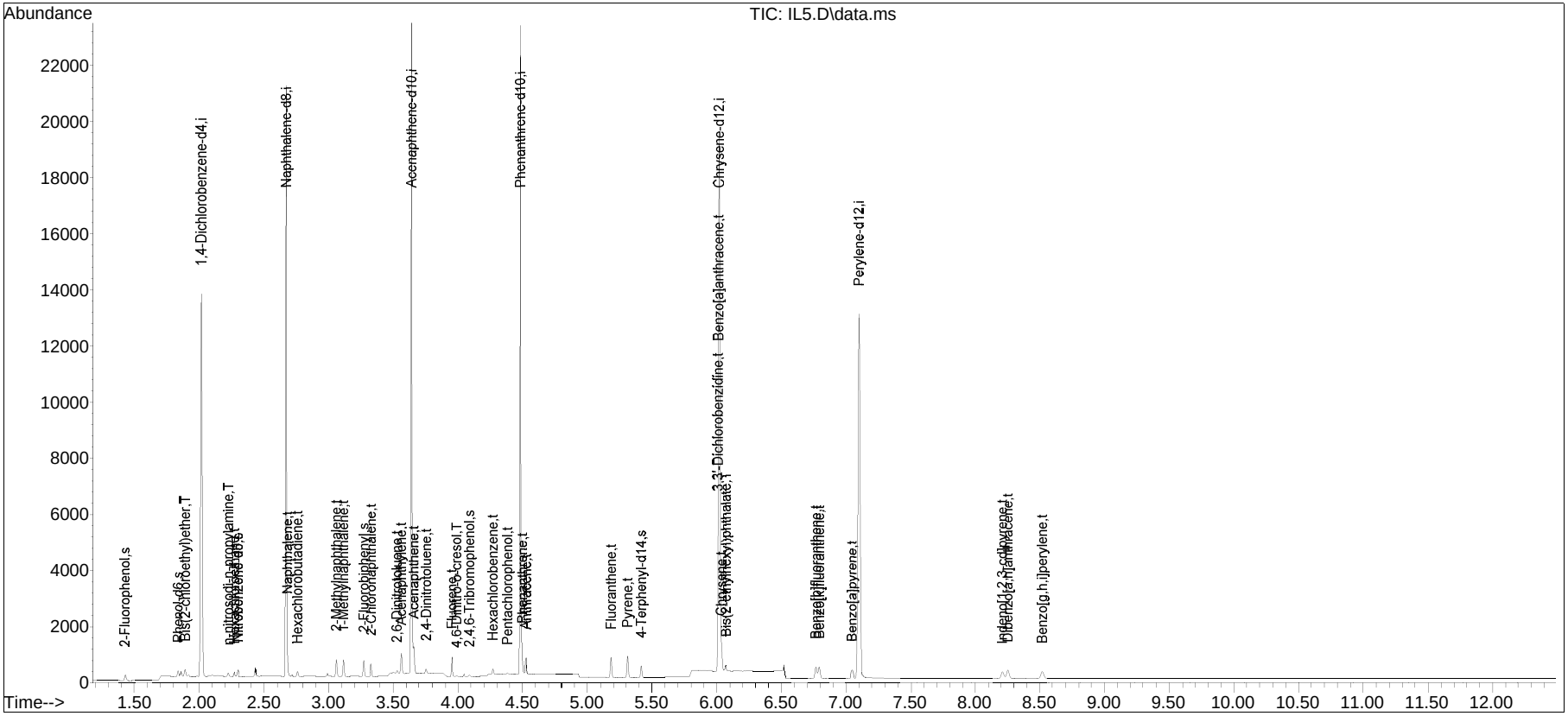
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV128\231211LVIical\
Data File : IL5.D
Acq On : 11 Dec 2023 02:50 pm
Operator : SV128:dv
Sample : IL5,32,, 0.1 Lot#10231
Misc : WG1864557,,ical
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 18 10:43:34 2023
Quant Method : I:\8270SIM\SV128\231211LVIical\SIM-LVI_231211_sv128.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Dec 15 14:30:01 2023
Response via : Initial Calibration

Sub List : Default - All compounds listedical\IL7.D•

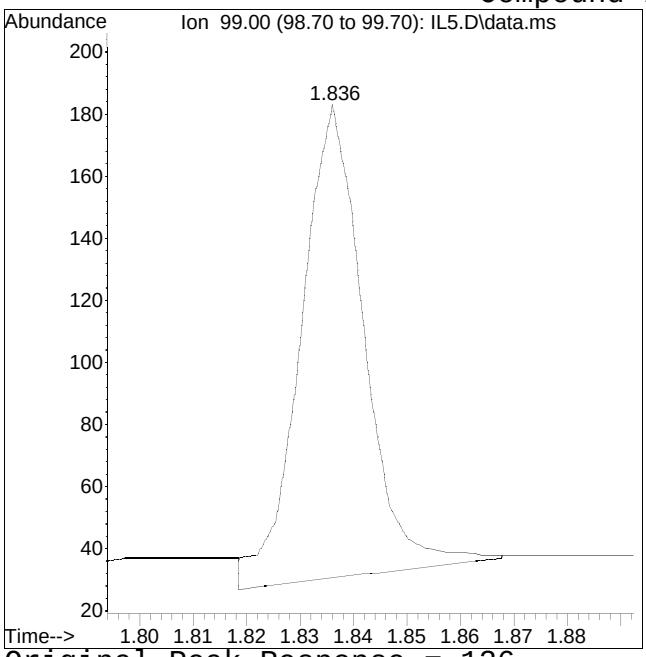


Manual Integration Report

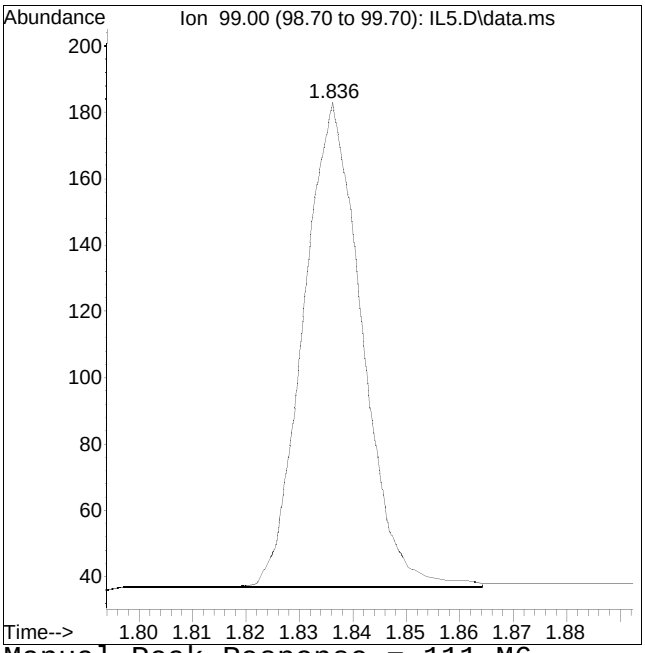
Data Path : I:\8270SIM\SV128\231211LVIQ
Data File : IL5.D
Date Inj'd : 12/11/2023 2:50 pm
Sample : IL5,32,, 0.1 Lot#10231

Method : SIM-LVI_231211_sv128.M
Operator : SV128:dv
Instrument : SV128
Quant Date : 12/15/2023 2:30 pm

Compound #3: Phenol-d6



Original Peak Response = 126



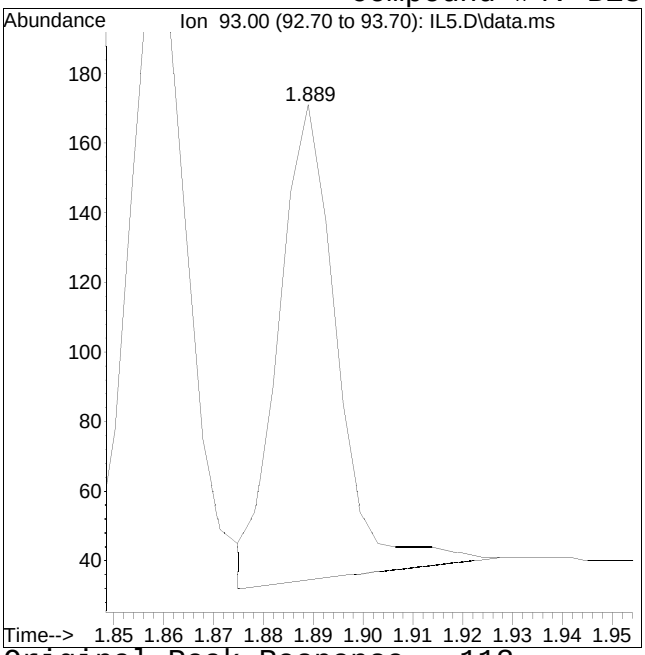
Manual Peak Response = 111 M6

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

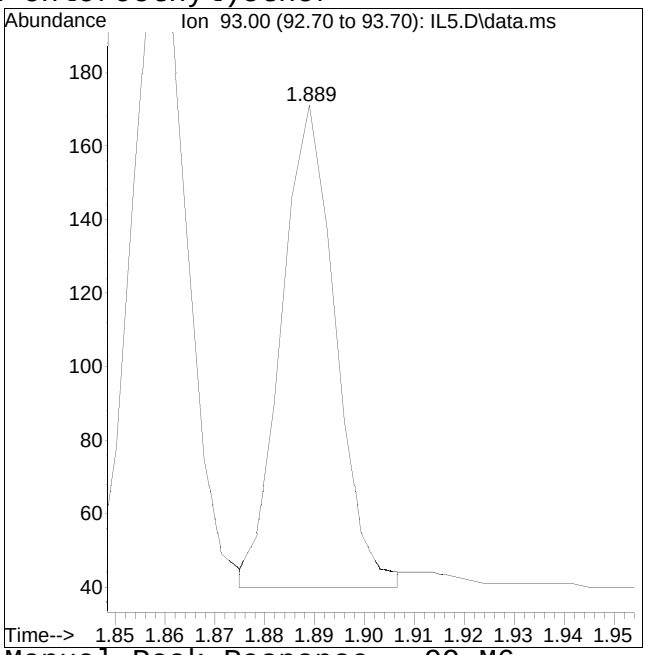
Manual Integration Report

Data Path : I:\8270SIM\SV128\231211LVIQMethod : SIM-LVI_231211_sv128.M
Data File : IL5.D Operator : SV128:dv
Date Inj'd : 12/11/2023 2:50 pm Instrument : SV128
Sample : IL5,32,, 0.1 Lot#10231 Quant Date : 12/15/2023 2:30 pm

Compound #4: Bis(2-chloroethyl)ether



Original Peak Response = 113



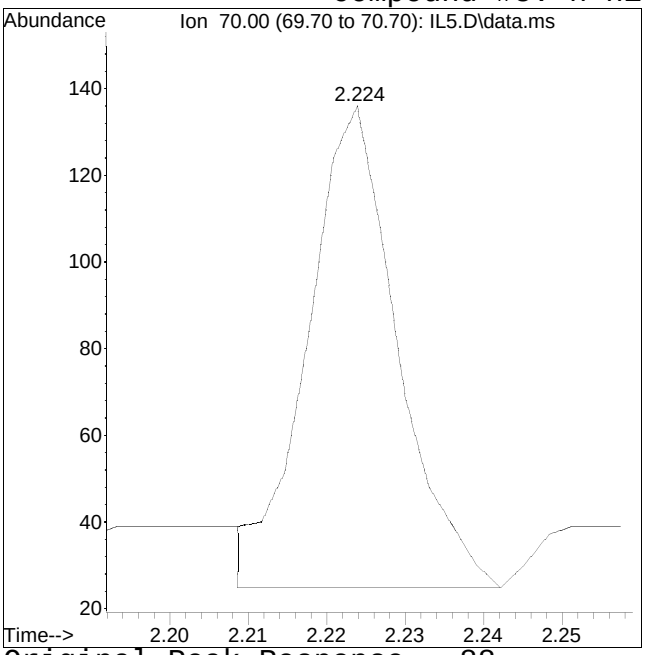
Manual Peak Response = 99 M6

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

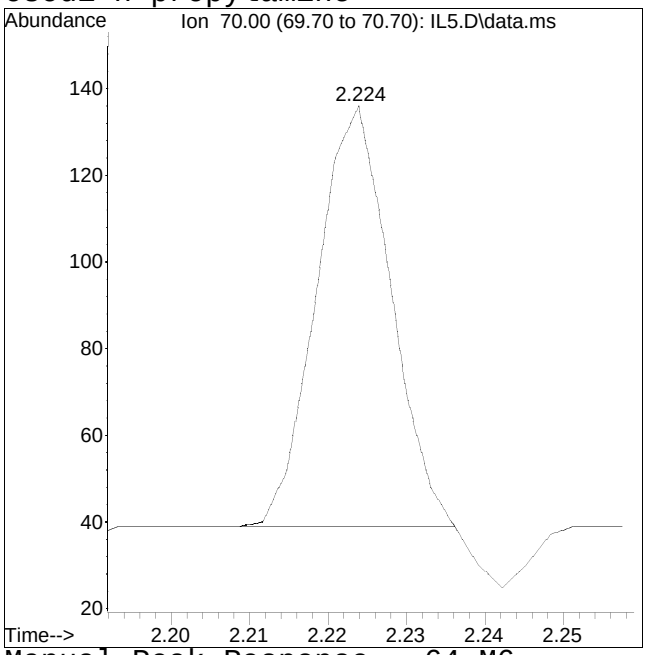
Manual Integration Report

Data Path : I:\8270SIM\SV128\231211LVIQMethod : SIM-LVI_231211_sv128.M
Data File : IL5.D Operator : SV128:dv
Date Inj'd : 12/11/2023 2:50 pm Instrument : SV128
Sample : IL5,32,, 0.1 Lot#10231 Quant Date : 12/15/2023 2:30 pm

Compound #5: n-nitrosodi-n-propylamine



Original Peak Response = 88



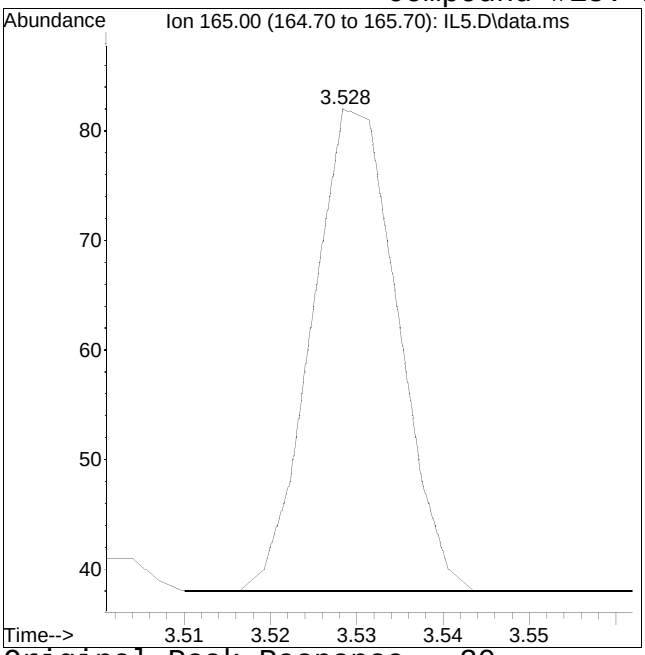
Manual Peak Response = 64 M6

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

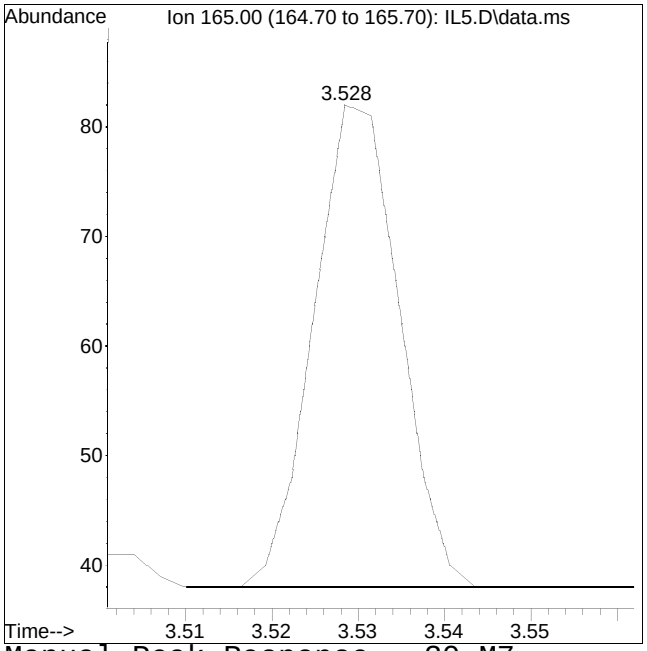
Manual Integration Report

Data Path : I:\8270SIM\SV128\231211LVIQMethod : SIM-LVI_231211_sv128.M
Data File : IL5.D Operator : SV128:dv
Date Inj'd : 12/11/2023 2:50 pm Instrument : SV128
Sample : IL5,32,, 0.1 Lot#10231 Quant Date : 12/15/2023 2:30 pm

Compound #15: 2,6-Dinitrotoluene



Original Peak Response = 30



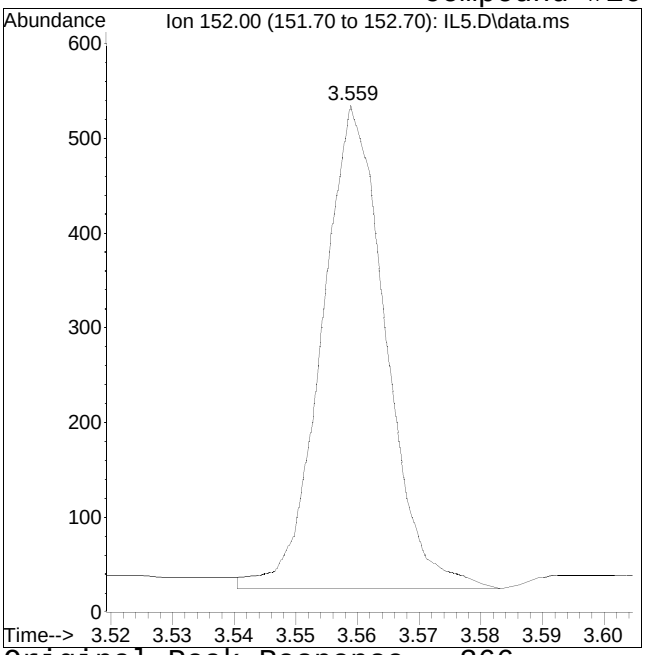
Manual Peak Response = 30 M7

M7 = A qualifier ion was manually integrated (only for GC/MS data).

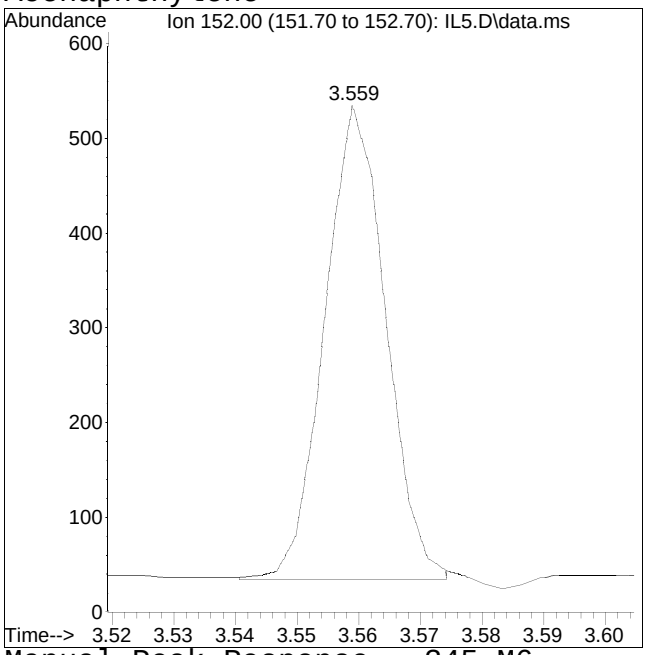
Manual Integration Report

Data Path : I:\8270SIM\SV128\231211LVIQMethod : SIM-LVI_231211_sv128.M
Data File : IL5.D Operator : SV128:dv
Date Inj'd : 12/11/2023 2:50 pm Instrument : SV128
Sample : IL5,32,, 0.1 Lot#10231 Quant Date : 12/15/2023 2:30 pm

Compound #16: Acenaphthylene



Original Peak Response = 366



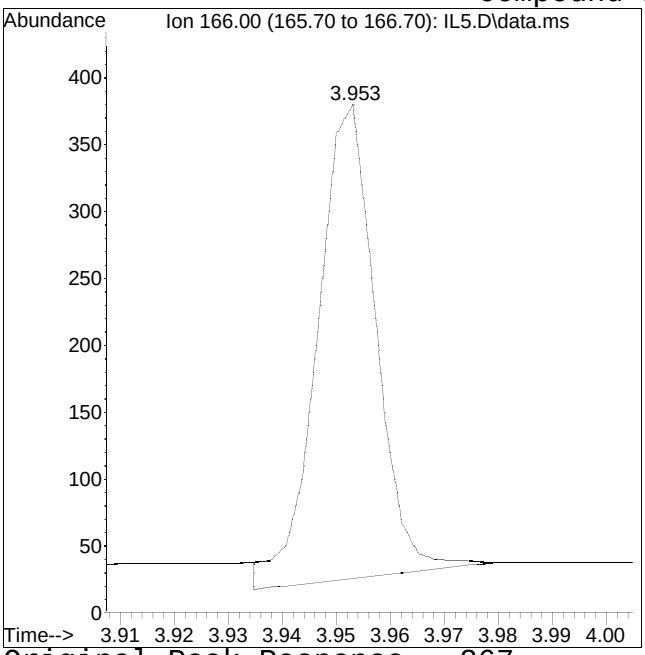
Manual Peak Response = 345 M6

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

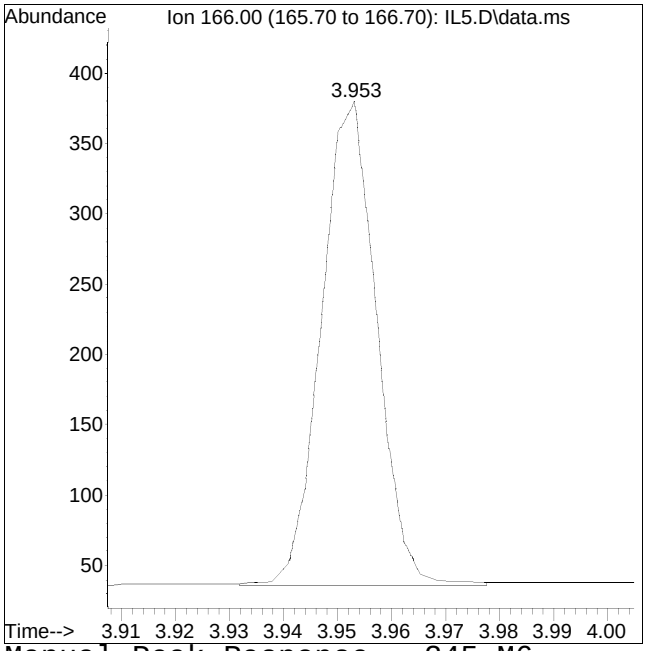
Manual Integration Report

Data Path : I:\8270SIM\SV128\231211LVIQMethod : SIM-LVI_231211_sv128.M
Data File : IL5.D Operator : SV128:dv
Date Inj'd : 12/11/2023 2:50 pm Instrument : SV128
Sample : IL5,32,, 0.1 Lot#10231 Quant Date : 12/15/2023 2:30 pm

Compound #20: Fluorene



Original Peak Response = 267



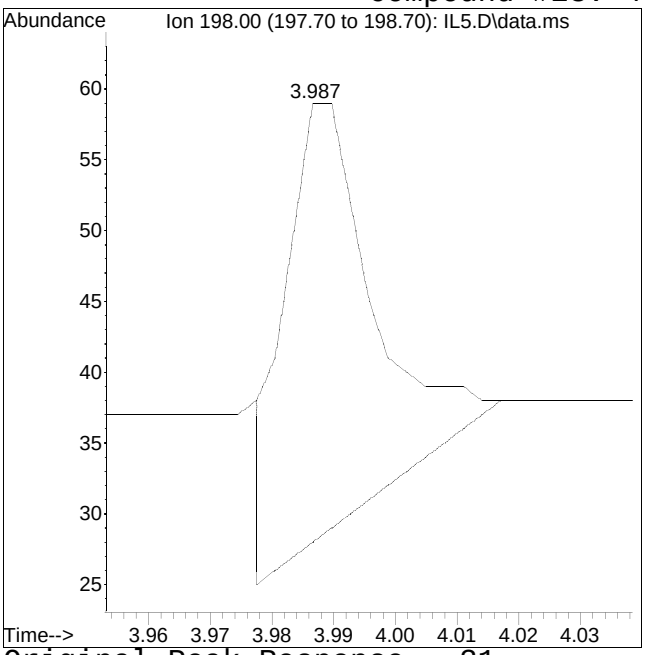
Manual Peak Response = 245 M6

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

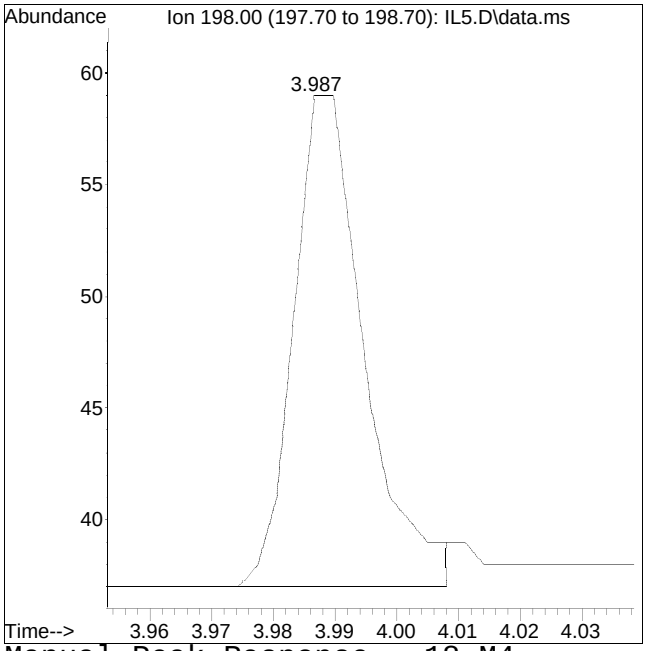
Manual Integration Report

Data Path : I:\8270SIM\SV128\231211LVIQMethod : SIM-LVI_231211_sv128.M
Data File : IL5.D Operator : SV128:dv
Date Inj'd : 12/11/2023 2:50 pm Instrument : SV128
Sample : IL5,32,, 0.1 Lot#10231 Quant Date : 12/15/2023 2:30 pm

Compound #23: 4,6-Dinitro-o-cresol



Original Peak Response = 31



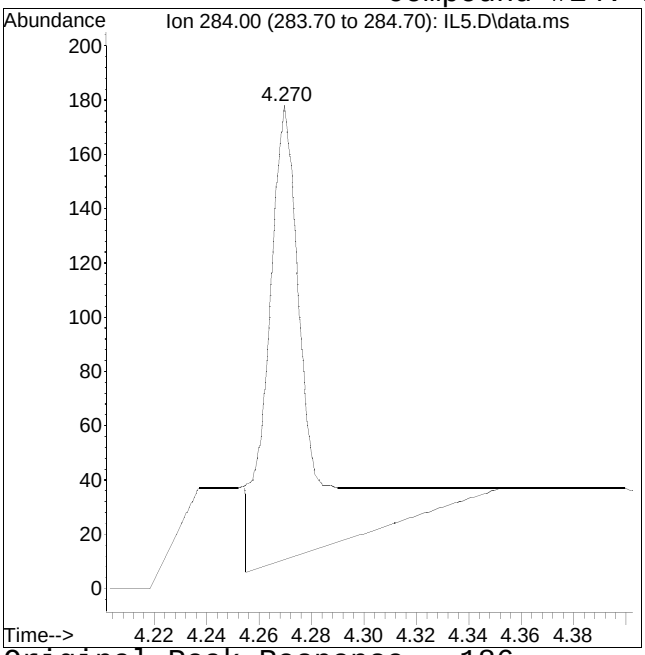
Manual Peak Response = 18 M4

M4 = Poor automated baseline construction.

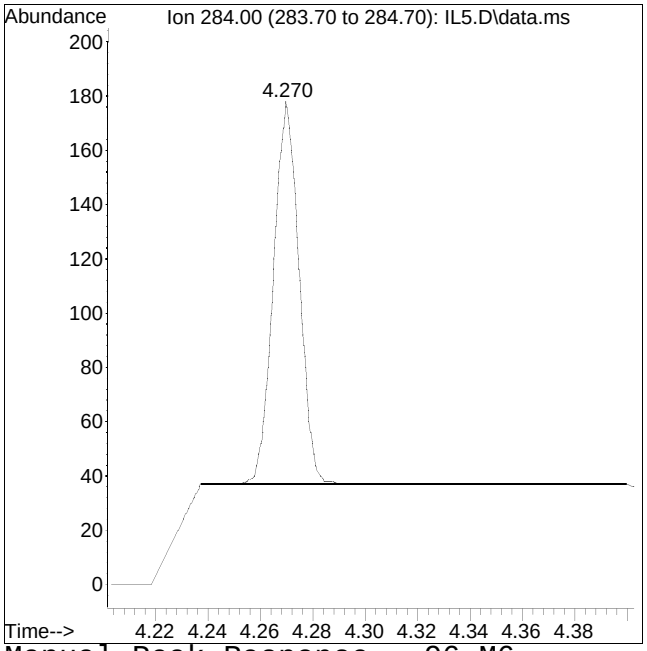
Manual Integration Report

Data Path : I:\8270SIM\SV128\231211LVIQMethod : SIM-LVI_231211_sv128.M
Data File : IL5.D Operator : SV128:dv
Date Inj'd : 12/11/2023 2:50 pm Instrument : SV128
Sample : IL5,32,, 0.1 Lot#10231 Quant Date : 12/15/2023 2:30 pm

Compound #24: Hexachlorobenzene



Original Peak Response = 186



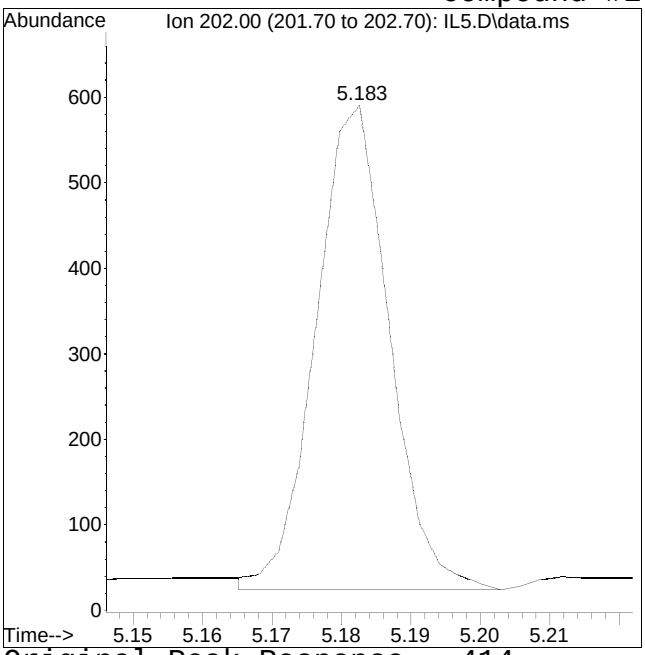
Manual Peak Response = 96 M6

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

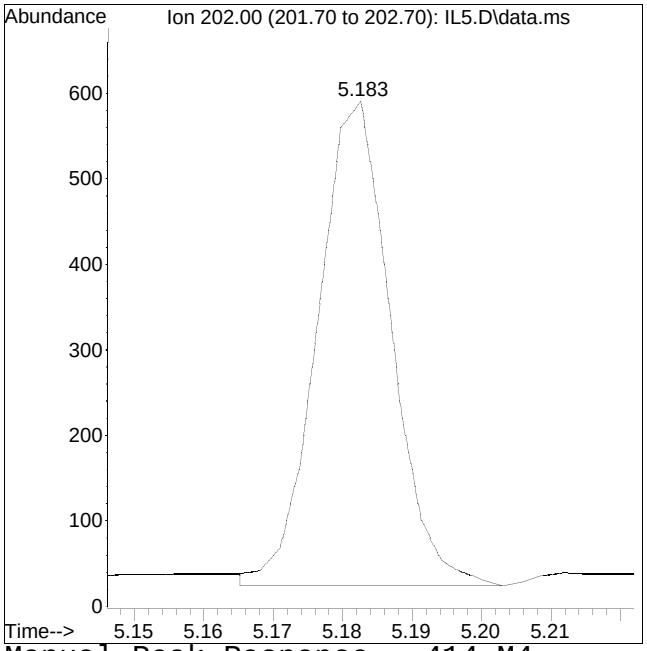
Manual Integration Report

Data Path : I:\8270SIM\SV128\231211LVIQMethod : SIM-LVI_231211_sv128.M
Data File : IL5.D Operator : SV128:dv
Date Inj'd : 12/11/2023 2:50 pm Instrument : SV128
Sample : IL5,32,, 0.1 Lot#10231 Quant Date : 12/15/2023 2:30 pm

Compound #28: Fluoranthene



Original Peak Response = 414



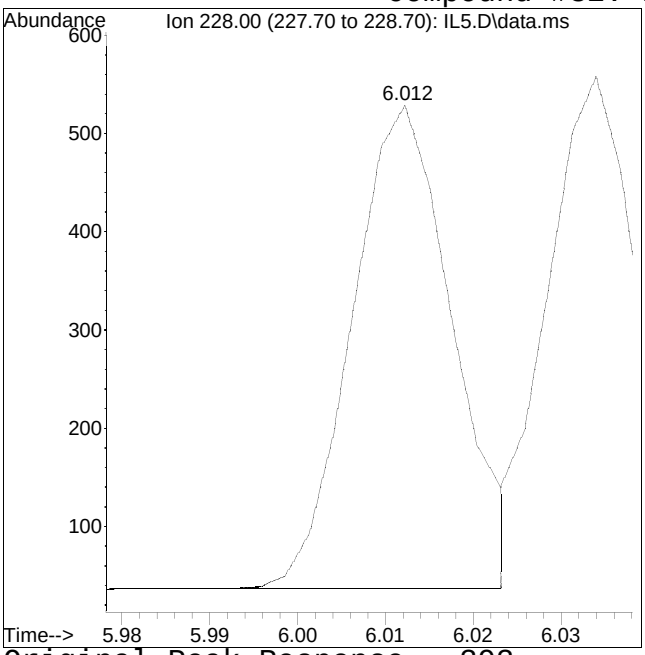
Manual Peak Response = 414 M4

M4 = Poor automated baseline construction.

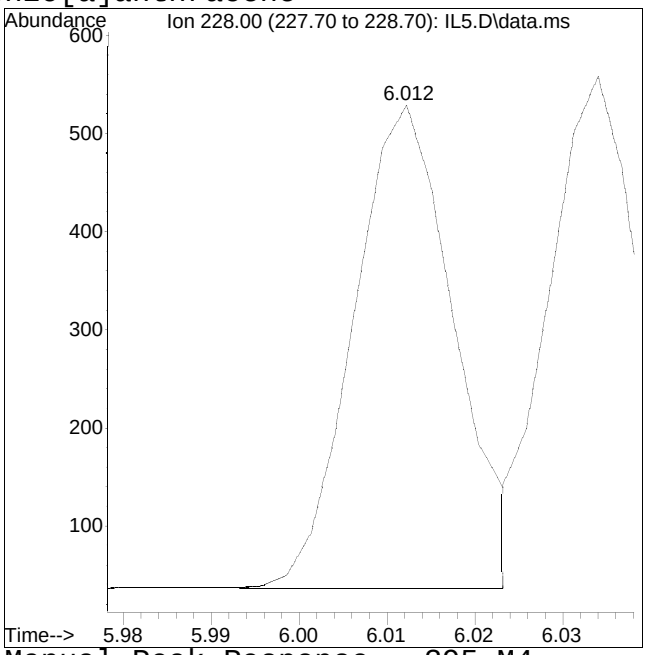
Manual Integration Report

Data Path : I:\8270SIM\SV128\231211LVIQMethod : SIM-LVI_231211_sv128.M
Data File : IL5.D Operator : SV128:dv
Date Inj'd : 12/11/2023 2:50 pm Instrument : SV128
Sample : IL5,32,, 0.1 Lot#10231 Quant Date : 12/15/2023 2:30 pm

Compound #32: Benzo[a]anthracene



Original Peak Response = 393



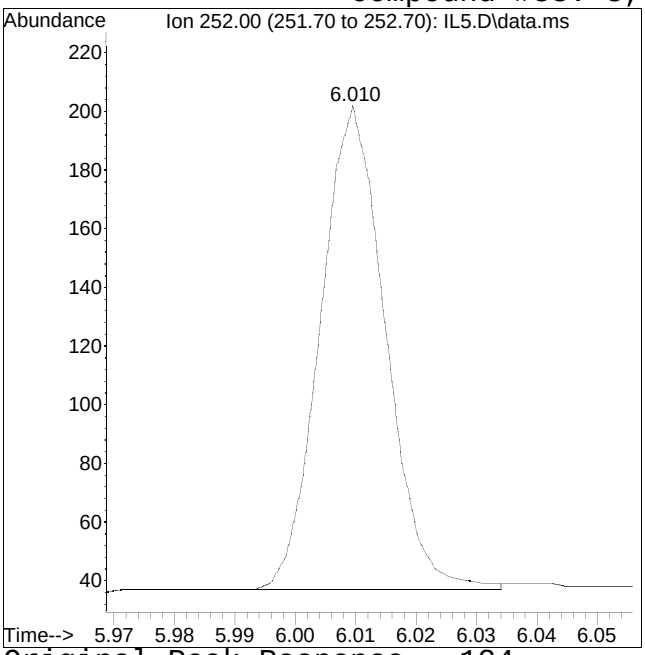
Manual Peak Response = 395 M4

M4 = Poor automated baseline construction.

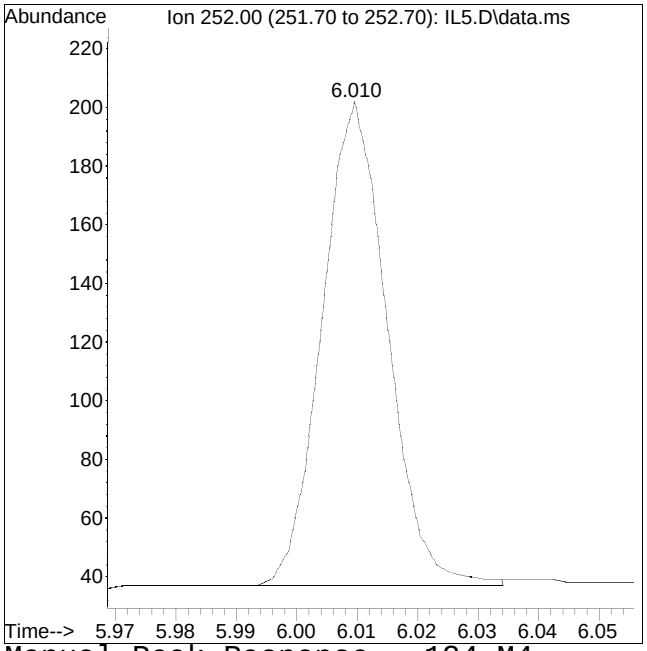
Manual Integration Report

Data Path : I:\8270SIM\SV128\231211LVIQMethod : SIM-LVI_231211_sv128.M
Data File : IL5.D Operator : SV128:dv
Date Inj'd : 12/11/2023 2:50 pm Instrument : SV128
Sample : IL5,32,, 0.1 Lot#10231 Quant Date : 12/15/2023 2:30 pm

Compound #33: 3,3'-Dichlorobenzidine



Original Peak Response = 124



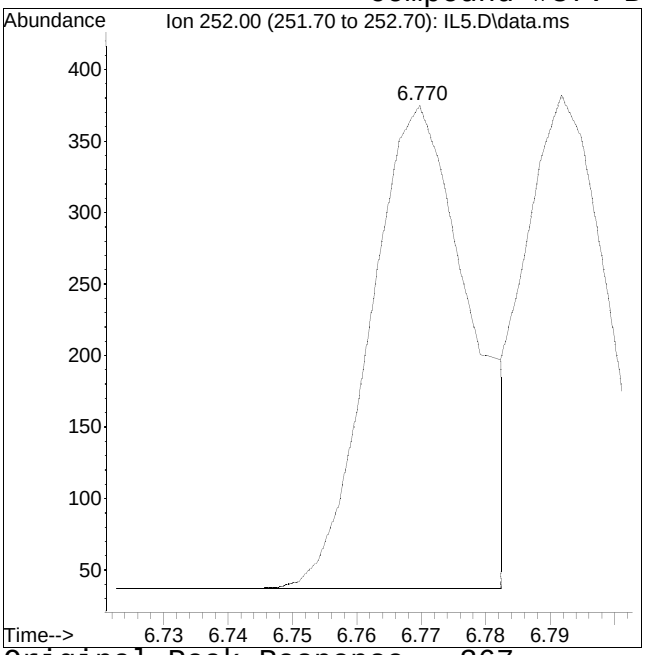
Manual Peak Response = 124 M4

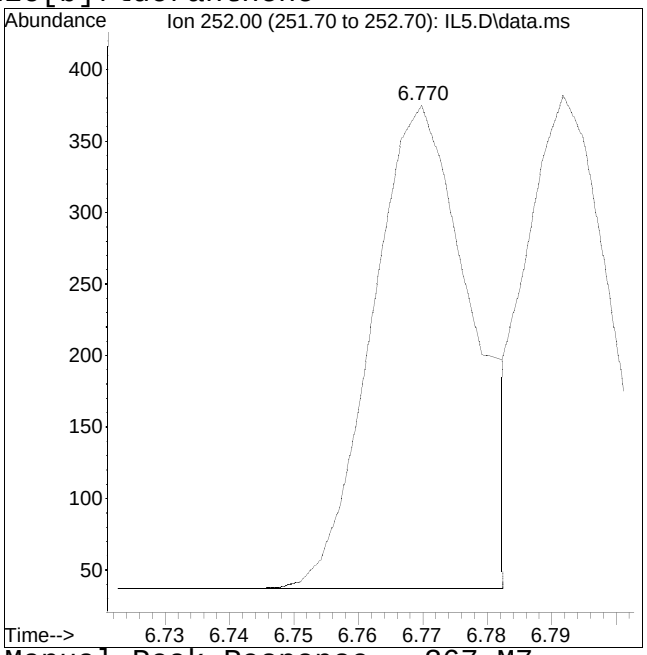
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\8270SIM\SV128\231211LVIQMethod : SIM-LVI_231211_sv128.M
Data File : IL5.D Operator : SV128:dv
Date Inj'd : 12/11/2023 2:50 pm Instrument : SV128
Sample : IL5,32,, 0.1 Lot#10231 Quant Date : 12/15/2023 2:30 pm

Compound #37: Benzo[b]fluoranthene



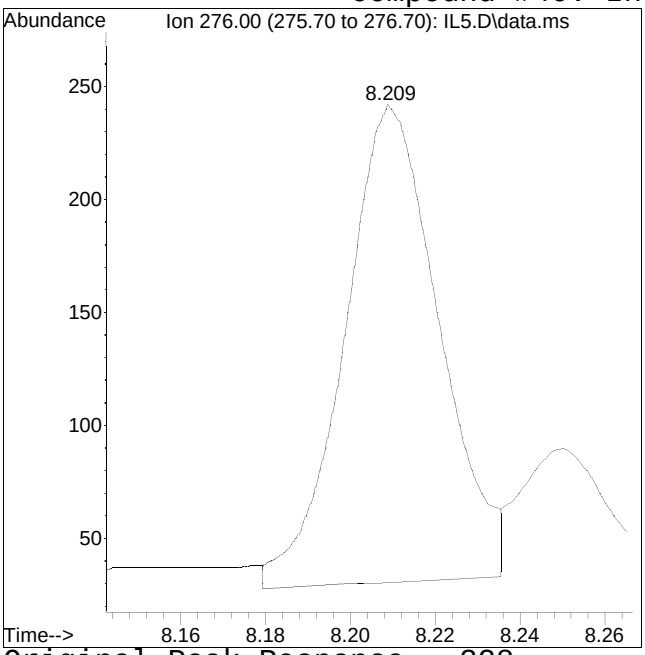


Original Peak Response = 367 Manual Peak Response = 367 M7
M7 = A qualifier ion was manually integrated (only for GC/MS data).

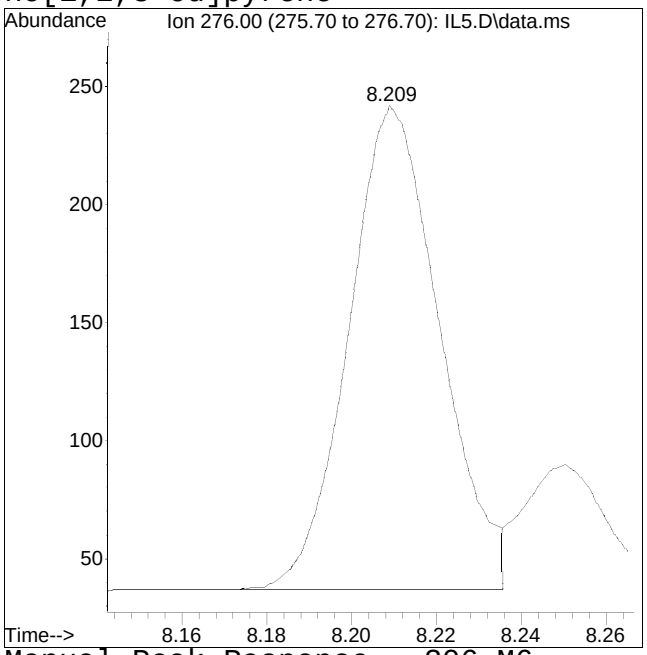
Manual Integration Report

Data Path : I:\8270SIM\SV128\231211LVIQMethod : SIM-LVI_231211_sv128.M
Data File : IL5.D Operator : SV128:dv
Date Inj'd : 12/11/2023 2:50 pm Instrument : SV128
Sample : IL5,32,, 0.1 Lot#10231 Quant Date : 12/15/2023 2:30 pm

Compound #40: Indeno[1,2,3-cd]pyrene



Original Peak Response = 328



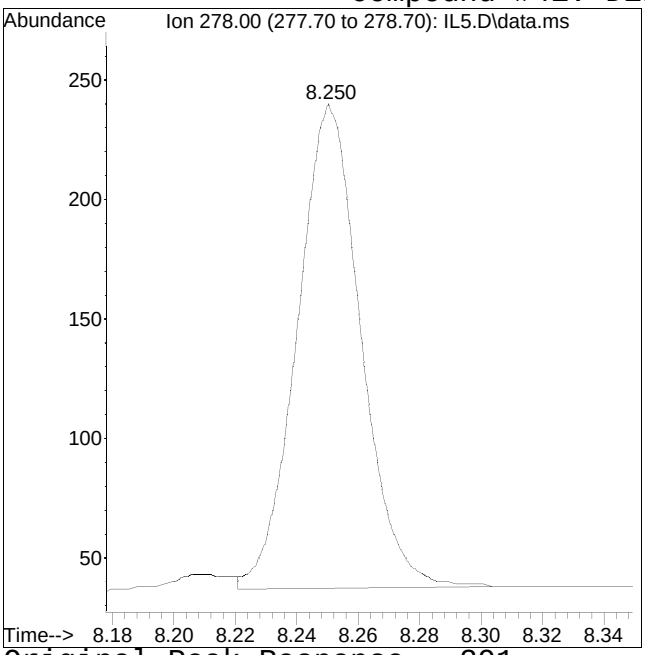
Manual Peak Response = 306 M6

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

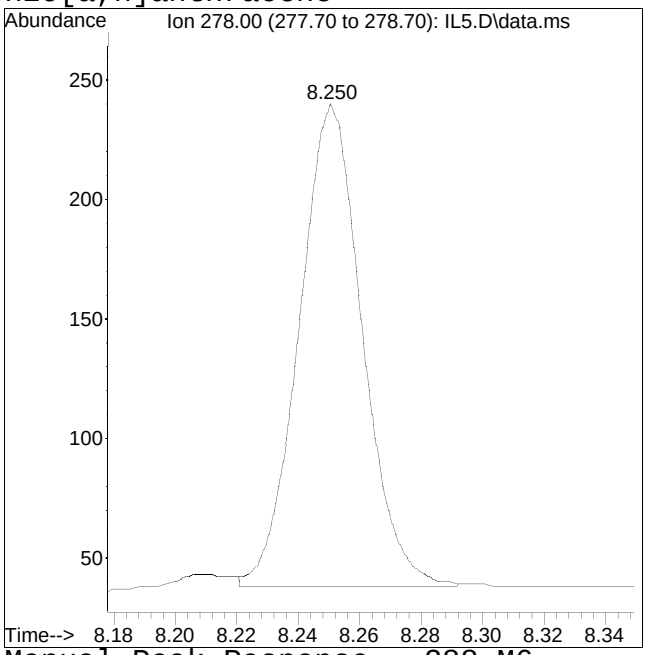
Manual Integration Report

Data Path : I:\8270SIM\SV128\231211LVIQMethod : SIM-LVI_231211_sv128.M
Data File : IL5.D Operator : SV128:dv
Date Inj'd : 12/11/2023 2:50 pm Instrument : SV128
Sample : IL5,32,, 0.1 Lot#10231 Quant Date : 12/15/2023 2:30 pm

Compound #41: Dibenzo[a,h]anthracene



Original Peak Response = 291



Manual Peak Response = 288 M6

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV128\231211LVIical\
Data File : IL4.D
Acq On : 11 Dec 2023 03:06 pm
Operator : SV128:dv
Sample : IL4,32,, 0.05 Lot#10232
Misc : WG1864557,,ical
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 15 14:45:03 2023
Quant Method : I:\8270SIM\SV128\231211LVIical\SIM-LVI_231211_sv128.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Dec 15 14:39:52 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\SV128\231211LVIical\IL7.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.017	152	3417	4000.000	ng/ml	0.00
Standard Area 1 = 2982			Recovery = 114.59%			
8) Naphthalene-d8	2.674	136	11600	4000.000	ng/ml	0.00
Standard Area 1 = 10566			Recovery = 109.79%			
17) Acenaphthene-d10	3.642	164	6056	4000.000	ng/ml	0.00
Standard Area 1 = 6070			Recovery = 99.77%			
22) Phenanthrene-d10	4.486	188	11517	4000.000	ng/ml	0.00
Standard Area 1 = 13526			Recovery = 85.15%			
31) Chrysene-d12	6.018	240	8074	4000.000	ng/ml	0.00
Standard Area 1 = 12766			Recovery = 63.25%			
36) Perylene-d12	7.100	264	9082	4000.000	ng/ml	0.00
Standard Area 1 = 15405			Recovery = 58.95%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.427	112	43	49.973	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 1.00%#			
3) Phenol-d6	1.838	99	49M6	48.727	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 0.97%#			
7) Nitrobenzene-d5	2.298	82	39M6	47.990	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 1.92%#			
13) 2-Fluorobiphenyl	3.272	172	119	48.374	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 1.93%#			
21) 2,4,6-Tribromophenol	4.091	330	12	39.653	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 0.79%#			
30) 4-Terphenyl-d14	5.419	244	101	42.094	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 1.68%#			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	1.890	93	43M6	50.067	ng/ml	
5) n-nitrosodi-n-propylamine	2.225	70	28	46.701	ng/ml	98
6) Hexachloroethane	2.270	117	19	46.559	ng/ml	89
9) Naphthalene	2.683	128	149	50.089	ng/ml#	98
10) Hexachlorobutadiene	2.759	225	34M4	49.896	ng/ml	
11) 2-Methylnaphthalene	3.062	142	91	47.887	ng/ml	99
12) 1-Methylnaphthalene	3.116	142	86	48.056	ng/ml	100
14) 2-Chloronaphthalene	3.330	162	99	47.854	ng/ml	99
15) 2,6-Dinitrotoluene	3.529	165	12M4	60.971	ng/ml	

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV128\231211LVIical\
Data File : IL4.D
Acq On : 11 Dec 2023 03:06 pm
Operator : SV128:dv
Sample : IL4,32,, 0.05 Lot#10232
Misc : WG1864557,,ical
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 15 14:45:03 2023
Quant Method : I:\8270SIM\SV128\231211LVIical\SIM-LVI_231211_sv128.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Dec 15 14:39:52 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\SV128\231211LVIical\IL7.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
16) Acenaphthylene	3.559	152	139M6	45.357	ng/ml	
18) Acenaphthene	3.660	153	104M6	50.802	ng/ml	
19) 2,4-Dinitrotoluene	3.758	165	14	61.942	ng/ml	89
20) Fluorene	3.954	166	99M6	47.916	ng/ml	
23) 4,6-Dinitro-o-cresol	0.000		0	N.D.	d	
24) Hexachlorobenzene	4.270	284	40M6	52.195	ng/ml	
25) Pentachlorophenol	4.385	266	10	65.903	ng/ml	97
26) Phenanthrene	4.498	178	156M6	50.091	ng/ml	
27) Anthracene	4.527	178	144	47.853	ng/ml	99
28) Fluoranthene	5.183	202	149M7	43.547	ng/ml	
29) Pyrene	5.311	202	156	44.067	ng/ml	98
32) Benzo[a]anthracene	6.013	228	151	46.277	ng/ml	92
33) 3,3'-Dichlorobenzidine	6.010	252	45M7	56.469	ng/ml	
34) Chrysene	6.034	228	142	51.015	ng/ml	98
35) Bis(2-ethylhexyl)phtha...	6.070	149	48	84.822	ng/ml	95
37) Benzo[b]fluoranthene	6.770	252	135M4	48.000	ng/ml	
38) Benzo[k]fluoranthene	6.795	252	121	46.231	ng/ml	98
39) Benzo[a]pyrene	7.046	252	114	46.030	ng/ml	99
40) Indeno[1,2,3-cd]pyrene	8.209	276	122M1	49.263	ng/ml	
41) Dibenzo[a,h]anthracene	8.251	278	110M4	45.733	ng/ml	
42) Benzo[g,h,i]perylene	8.519	276	130	50.503	ng/ml	98

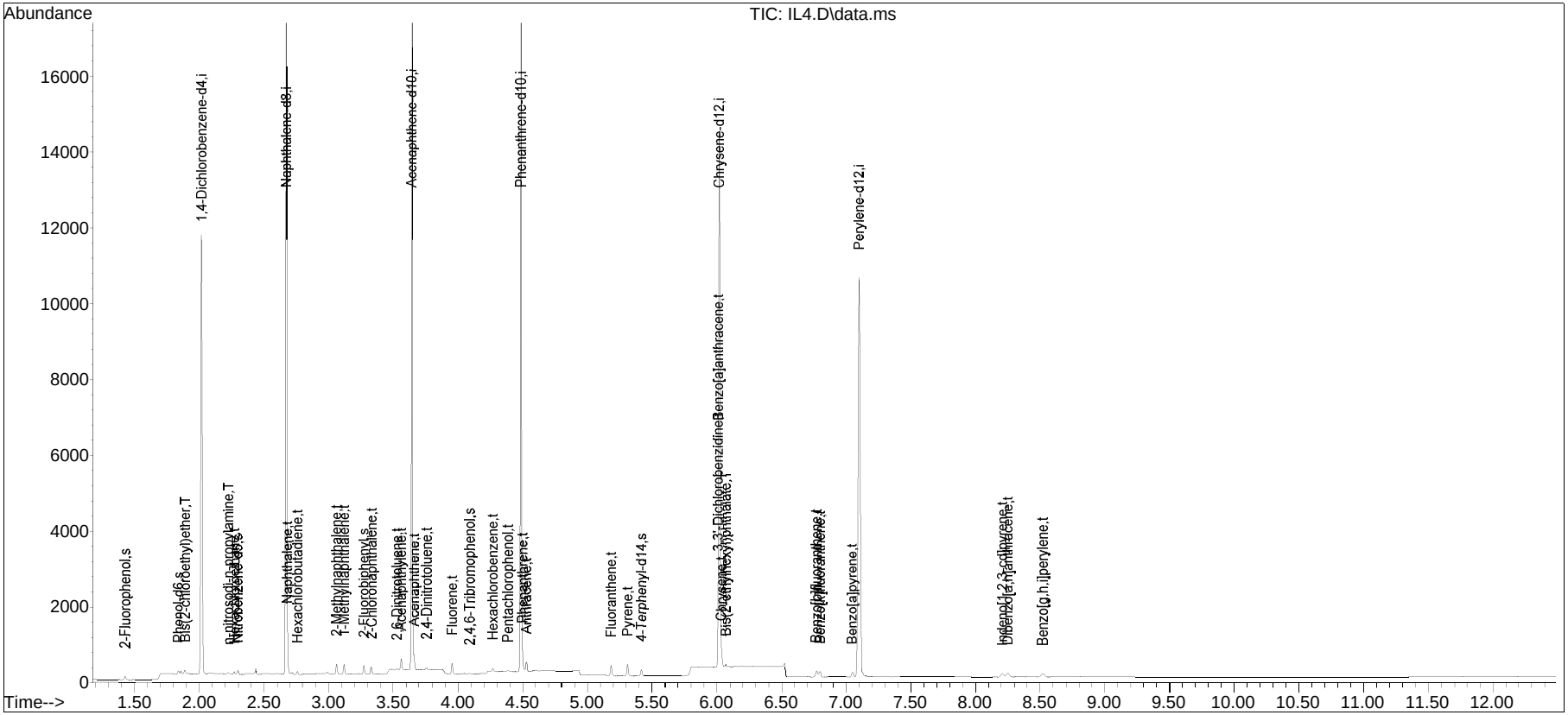
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV128\231211LVIical\
Data File : IL4.D
Acq On : 11 Dec 2023 03:06 pm
Operator : SV128:dv
Sample : IL4,32,, 0.05 Lot#10232
Misc : WG1864557,,ical
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 15 14:45:03 2023
Quant Method : I:\8270SIM\SV128\231211LVIical\SIM-LVI_231211_sv128.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Dec 15 14:39:52 2023
Response via : Initial Calibration

Sub List : Default - All compounds listedical\IL7.D•

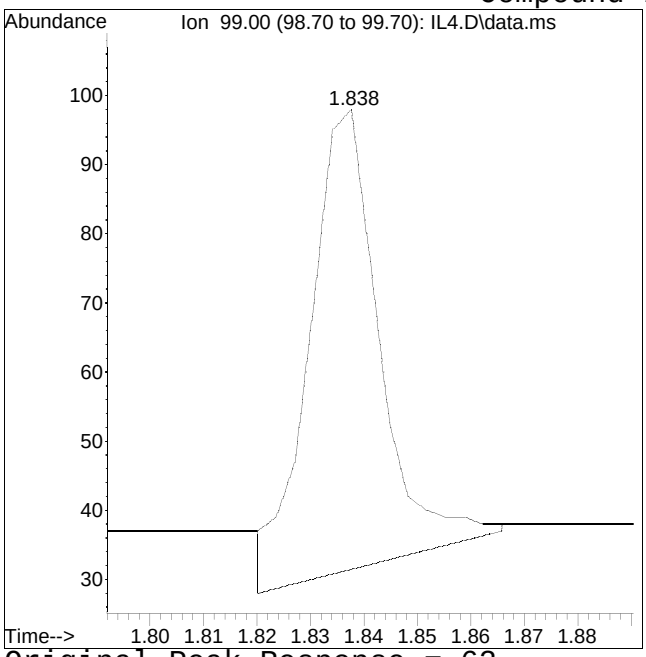


Manual Integration Report

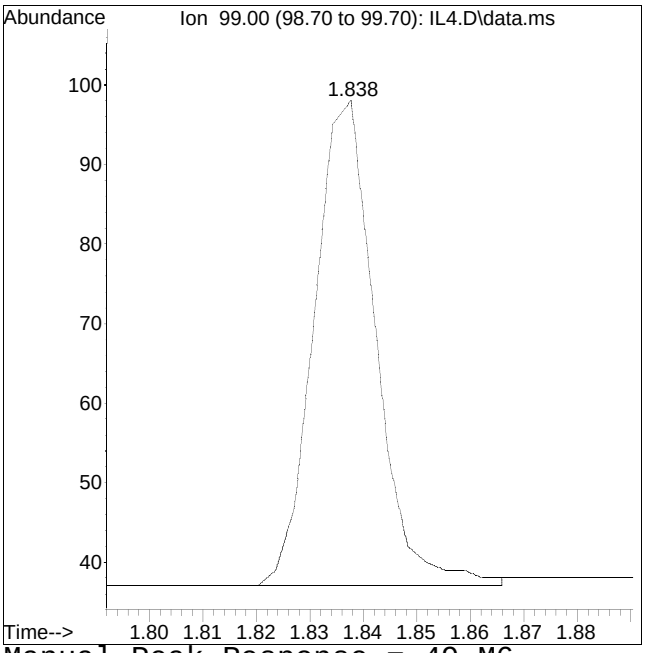
Data Path : I:\8270SIM\SV128\231211LVIQ
Data File : IL4.D
Date Inj'd : 12/11/2023 3:06 pm
Sample : IL4,32,, 0.05 Lot#10232

Method : SIM-LVI_231211_sv128.M
Operator : SV128:dv
Instrument : SV128
Quant Date : 12/15/2023 2:39 pm

Compound #3: Phenol-d6



Original Peak Response = 62



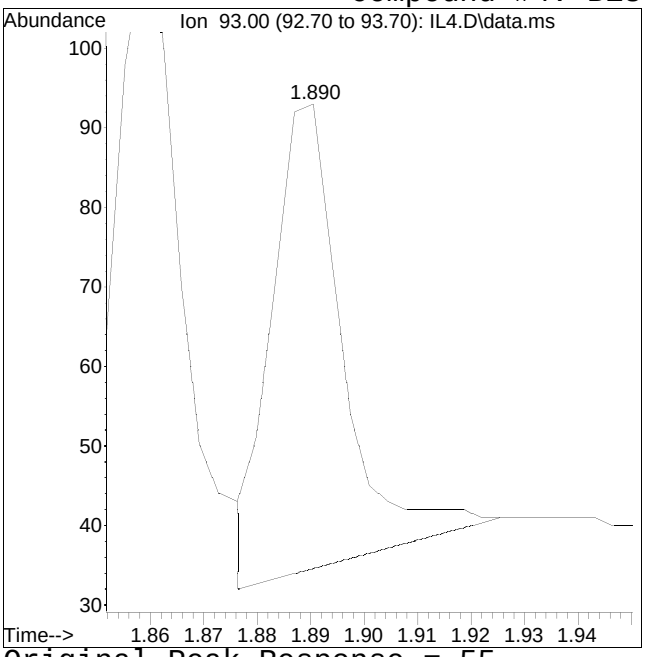
Manual Peak Response = 49 M6

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

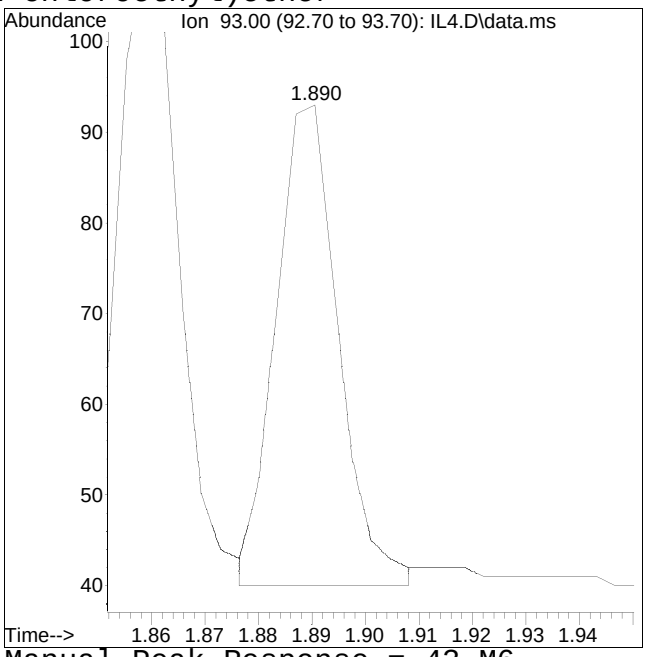
Manual Integration Report

Data Path : I:\8270SIM\SV128\231211LVIQMethod : SIM-LVI_231211_sv128.M
Data File : IL4.D Operator : SV128:dv
Date Inj'd : 12/11/2023 3:06 pm Instrument : SV128
Sample : IL4,32,, 0.05 Lot#10232 Quant Date : 12/15/2023 2:39 pm

Compound #4: Bis(2-chloroethyl)ether



Original Peak Response = 55



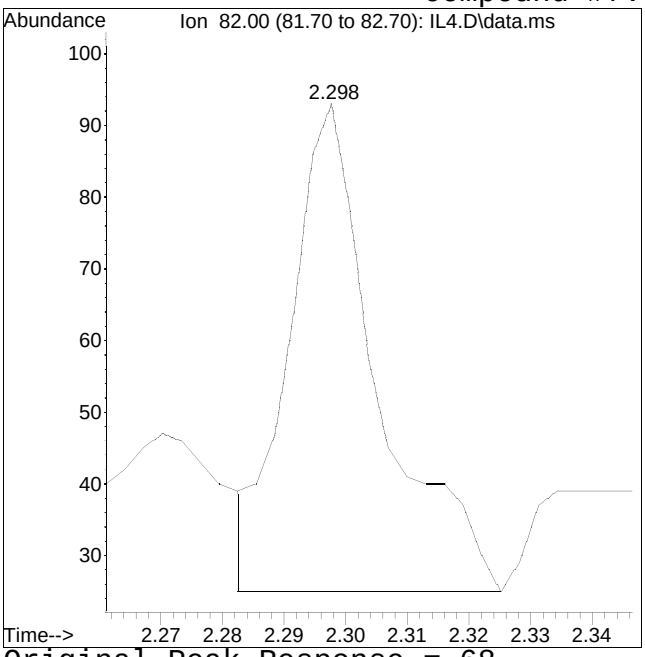
Manual Peak Response = 43 M6

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

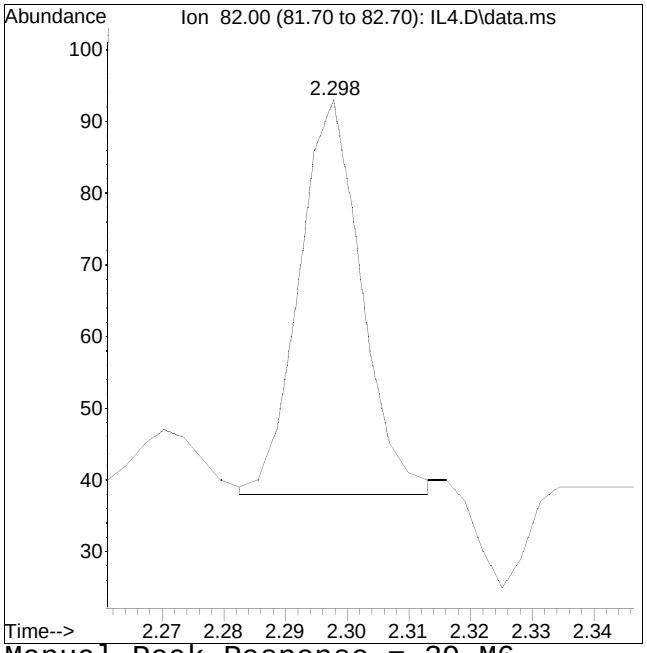
Manual Integration Report

Data Path : I:\8270SIM\SV128\231211LVIQMethod : SIM-LVI_231211_sv128.M
Data File : IL4.D Operator : SV128:dv
Date Inj'd : 12/11/2023 3:06 pm Instrument : SV128
Sample : IL4,32,, 0.05 Lot#10232 Quant Date : 12/15/2023 2:39 pm

Compound #7: Nitrobenzene-d5



Original Peak Response = 68



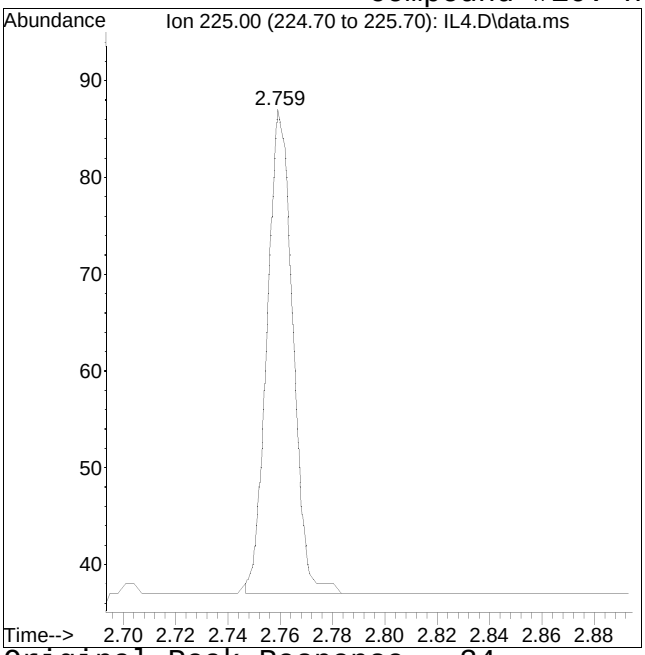
Manual Peak Response = 39 M6

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

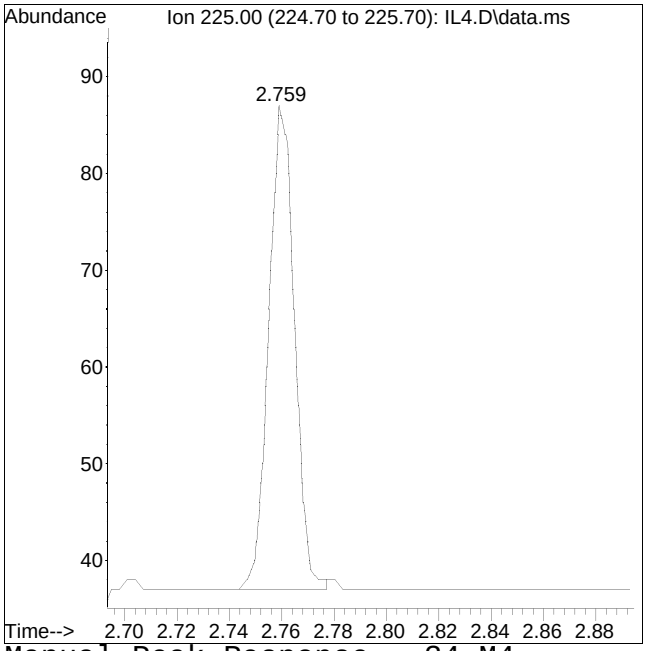
Manual Integration Report

Data Path : I:\8270SIM\SV128\231211LVIQMethod : SIM-LVI_231211_sv128.M
Data File : IL4.D Operator : SV128:dv
Date Inj'd : 12/11/2023 3:06 pm Instrument : SV128
Sample : IL4,32,, 0.05 Lot#10232 Quant Date : 12/15/2023 2:39 pm

Compound #10: Hexachlorobutadiene



Original Peak Response = 34



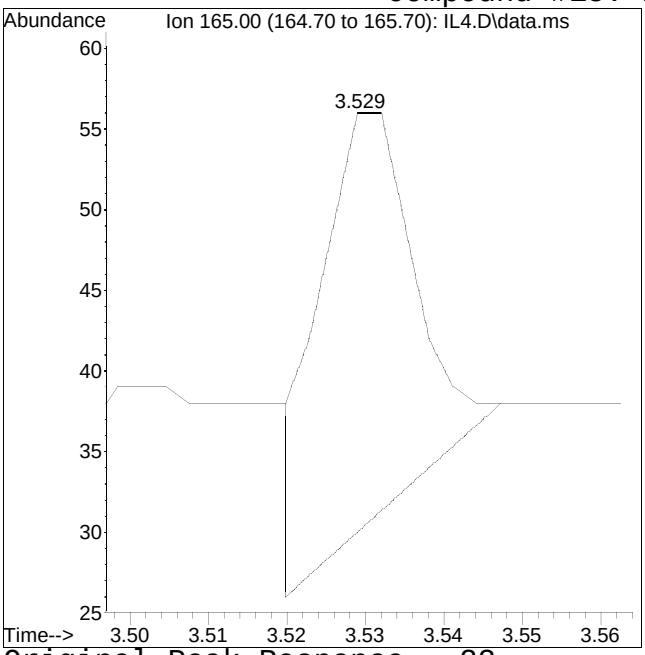
Manual Peak Response = 34 M4

M4 = Poor automated baseline construction.

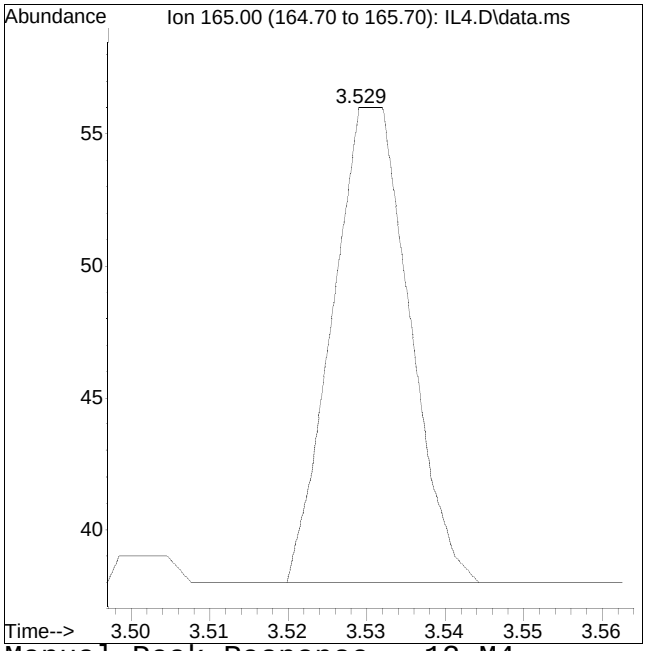
Manual Integration Report

Data Path : I:\8270SIM\SV128\231211LVIQMethod : SIM-LVI_231211_sv128.M
Data File : IL4.D Operator : SV128:dv
Date Inj'd : 12/11/2023 3:06 pm Instrument : SV128
Sample : IL4,32,, 0.05 Lot#10232 Quant Date : 12/15/2023 2:39 pm

Compound #15: 2,6-Dinitrotoluene



Original Peak Response = 22



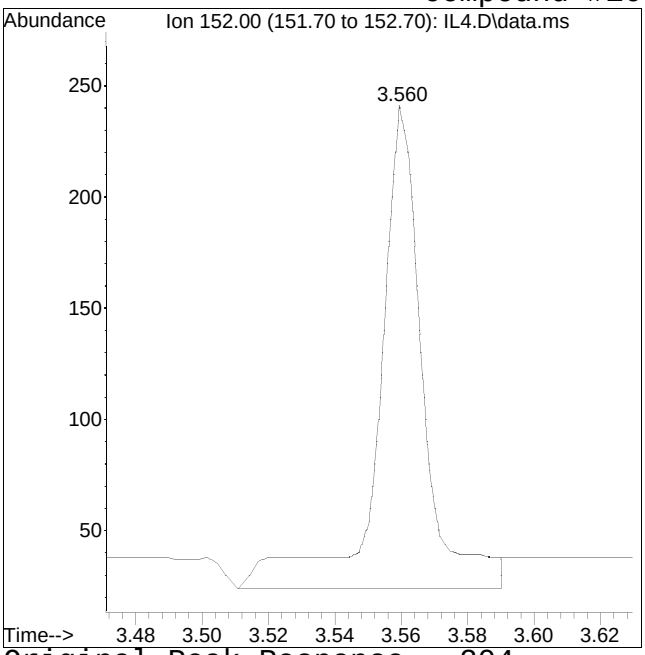
Manual Peak Response = 12 M4

M4 = Poor automated baseline construction.

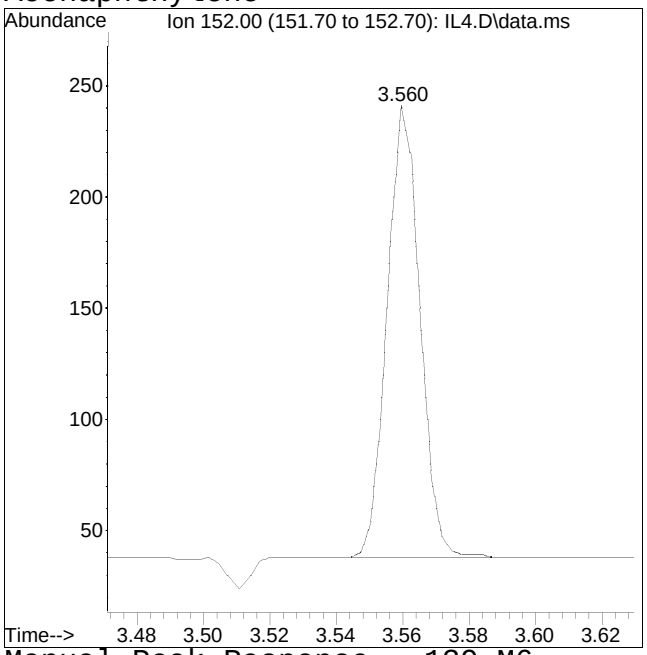
Manual Integration Report

Data Path : I:\8270SIM\SV128\231211LVIQMethod : SIM-LVI_231211_sv128.M
Data File : IL4.D Operator : SV128:dv
Date Inj'd : 12/11/2023 3:06 pm Instrument : SV128
Sample : IL4,32,, 0.05 Lot#10232 Quant Date : 12/15/2023 2:39 pm

Compound #16: Acenaphthylene



Original Peak Response = 204



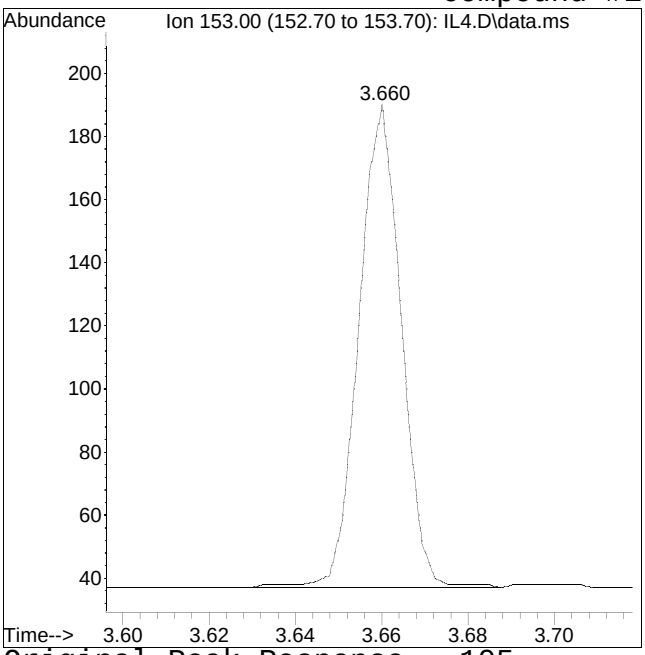
Manual Peak Response = 139 M6

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

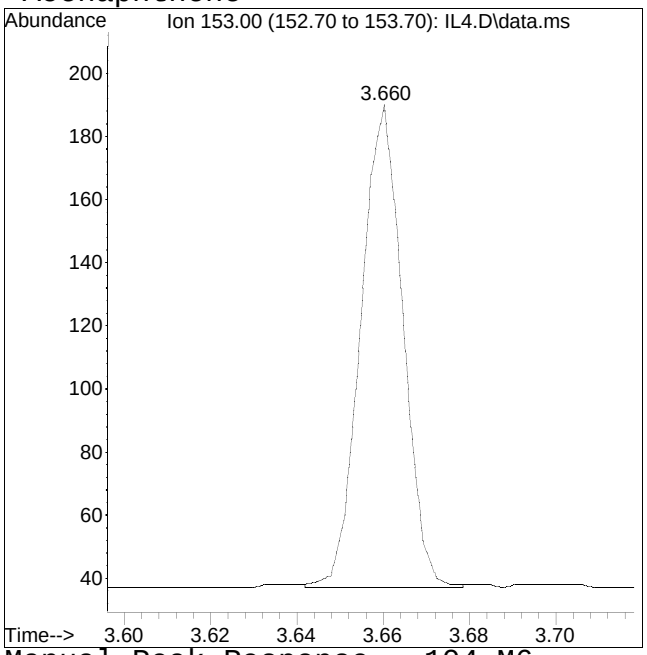
Manual Integration Report

Data Path : I:\8270SIM\SV128\231211LVIQMethod : SIM-LVI_231211_sv128.M
Data File : IL4.D Operator : SV128:dv
Date Inj'd : 12/11/2023 3:06 pm Instrument : SV128
Sample : IL4,32,, 0.05 Lot#10232 Quant Date : 12/15/2023 2:39 pm

Compound #18: Acenaphthene



Original Peak Response = 105



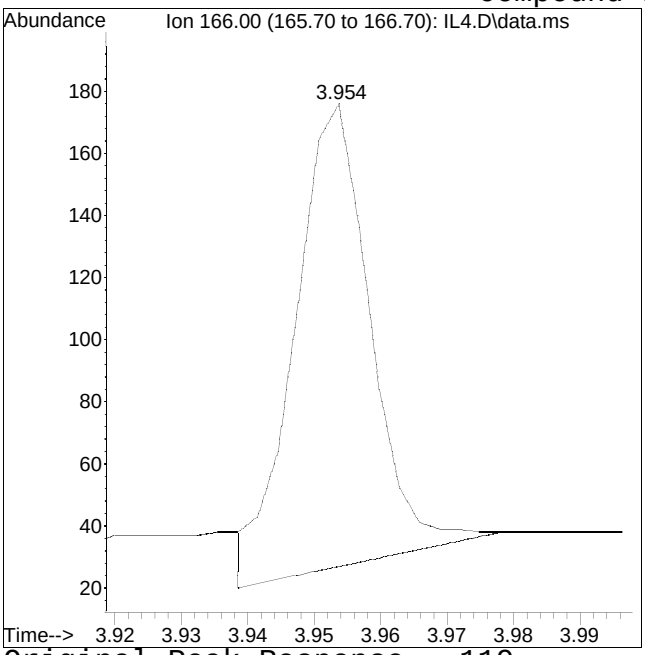
Manual Peak Response = 104 M6

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

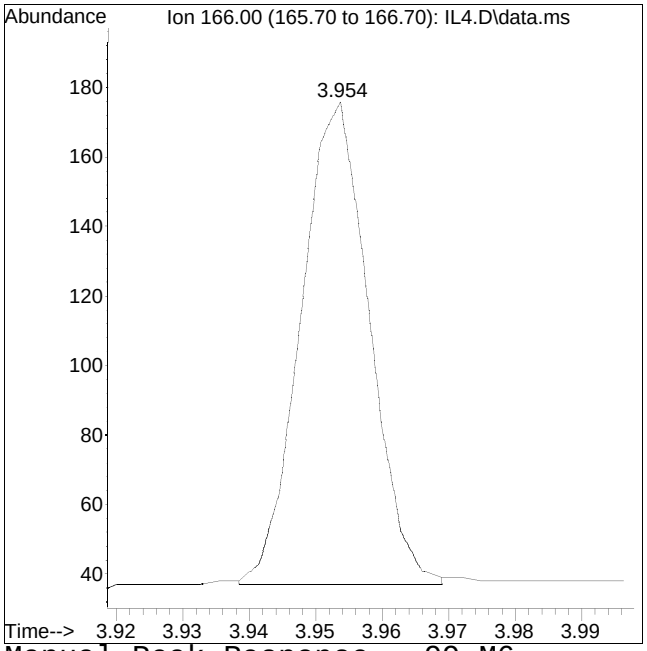
Manual Integration Report

Data Path : I:\8270SIM\SV128\231211LVIQMethod : SIM-LVI_231211_sv128.M
Data File : IL4.D Operator : SV128:dv
Date Inj'd : 12/11/2023 3:06 pm Instrument : SV128
Sample : IL4,32,, 0.05 Lot#10232 Quant Date : 12/15/2023 2:39 pm

Compound #20: Fluorene



Original Peak Response = 119



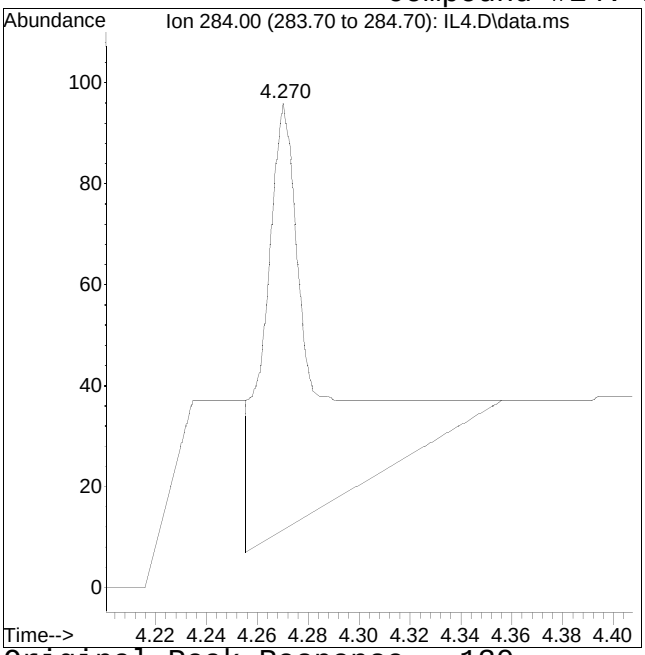
Manual Peak Response = 99 M6

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

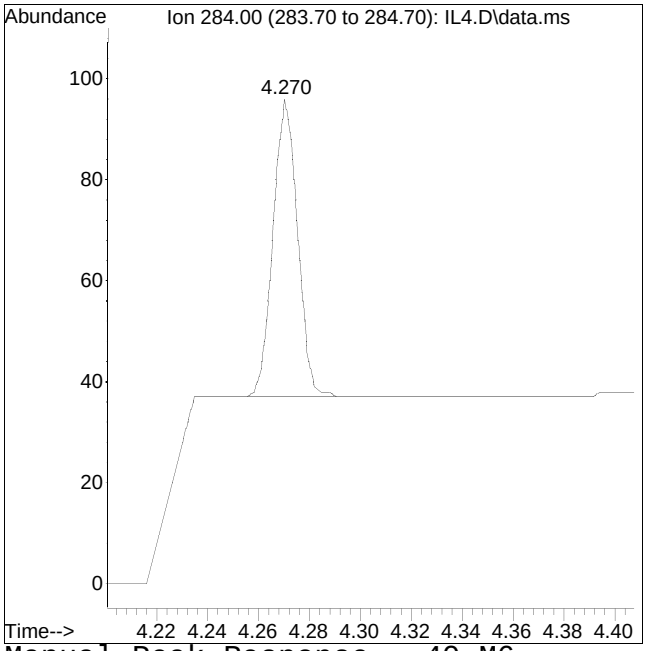
Manual Integration Report

Data Path : I:\8270SIM\SV128\231211LVIQMethod : SIM-LVI_231211_sv128.M
Data File : IL4.D Operator : SV128:dv
Date Inj'd : 12/11/2023 3:06 pm Instrument : SV128
Sample : IL4,32,, 0.05 Lot#10232 Quant Date : 12/15/2023 2:39 pm

Compound #24: Hexachlorobenzene



Original Peak Response = 130



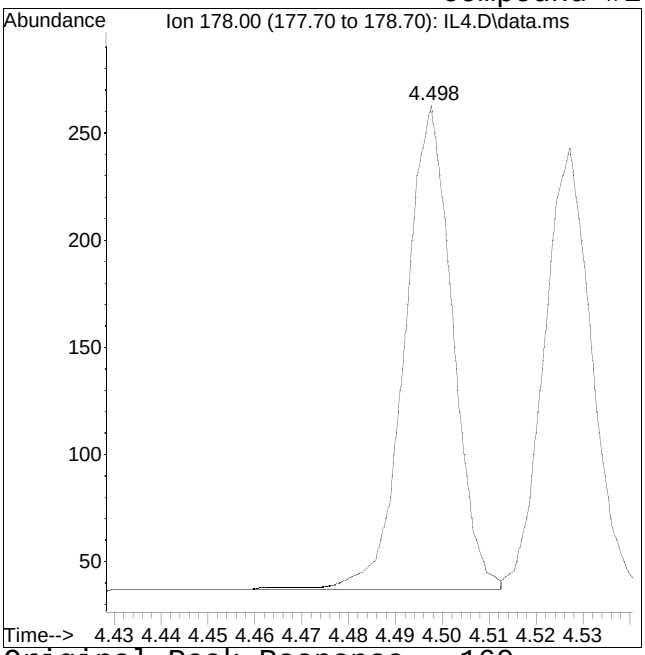
Manual Peak Response = 40 M6

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

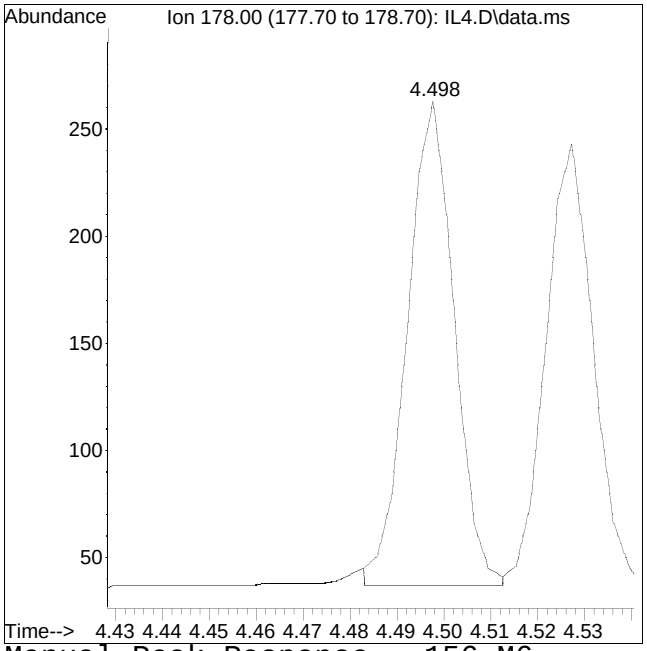
Manual Integration Report

Data Path : I:\8270SIM\SV128\231211LVIQMethod : SIM-LVI_231211_sv128.M
Data File : IL4.D Operator : SV128:dv
Date Inj'd : 12/11/2023 3:06 pm Instrument : SV128
Sample : IL4,32,, 0.05 Lot#10232 Quant Date : 12/15/2023 2:39 pm

Compound #26: Phenanthrene



Original Peak Response = 160



Manual Peak Response = 156 M6

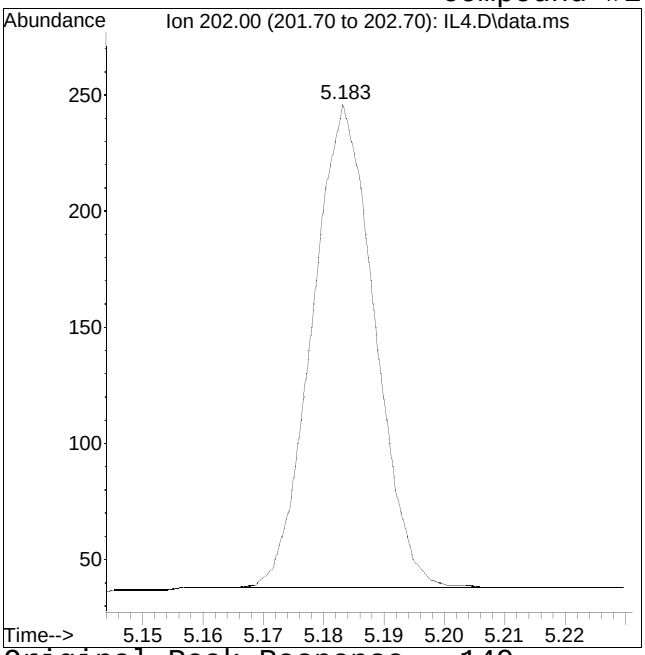
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

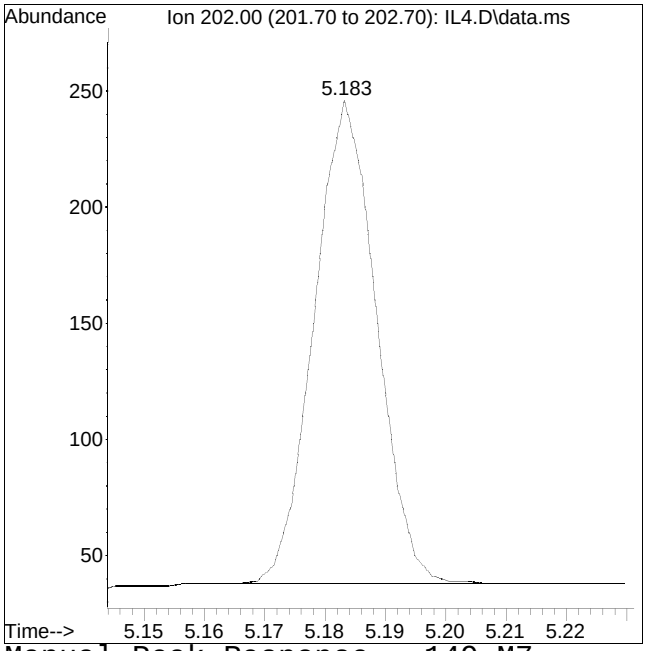
Manual Integration Report

Data Path : I:\8270SIM\SV128\231211LVIQ
Data File : IL4.D
Date Inj'd : 12/11/2023 3:06 pm
Sample : IL4,32,, 0.05 Lot#10232

Method : SIM-LVI_231211_sv128.M
Operator : SV128:dv
Instrument : SV128
Quant Date : 12/15/2023 2:39 pm

Compound #28: Fluoranthene





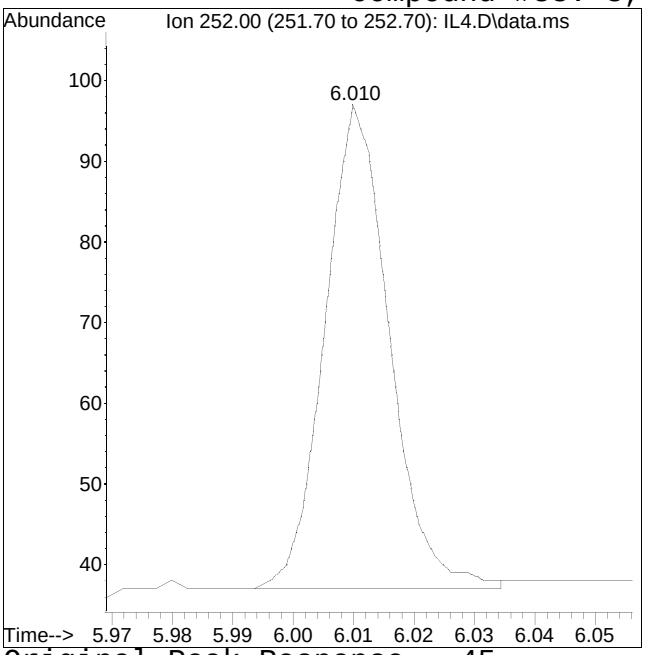
Original Peak Response = 149 Manual Peak Response = 149 M7
M7 = A qualifier ion was manually integrated (only for GC/MS data).

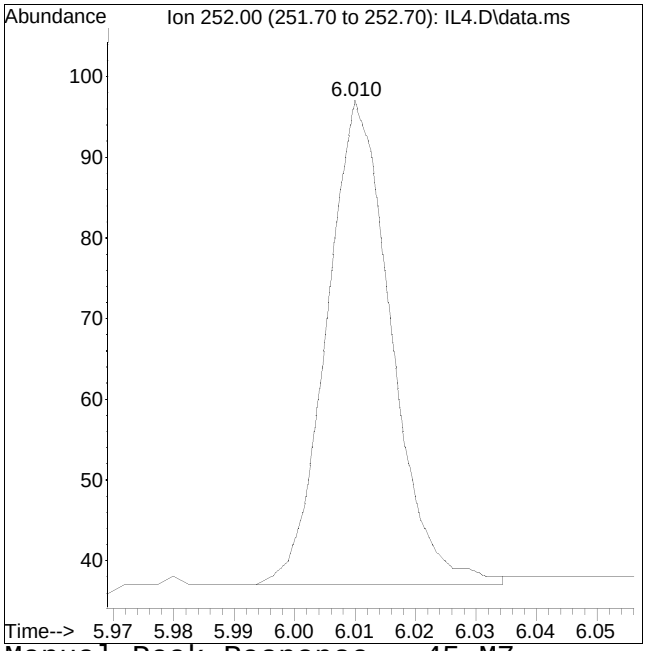
Manual Integration Report

Data Path : I:\8270SIM\SV128\231211LVIQ
Data File : IL4.D
Date Inj'd : 12/11/2023 3:06 pm
Sample : IL4,32,, 0.05 Lot#10232

Method : SIM-LVI_231211_sv128.M
Operator : SV128:dv
Instrument : SV128
Quant Date : 12/15/2023 2:39 pm

Compound #33: 3,3'-Dichlorobenzidine





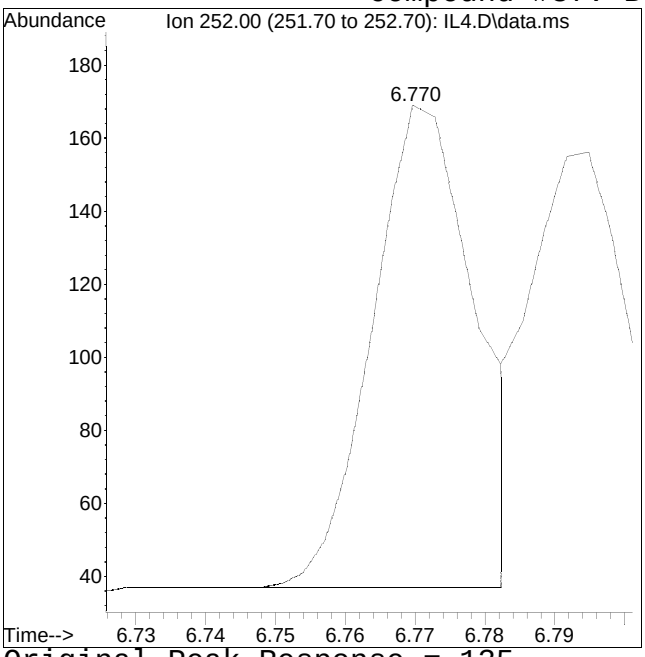
Original Peak Response = 45 Manual Peak Response = 45 M7

M7 = A qualifier ion was manually integrated (only for GC/MS data).

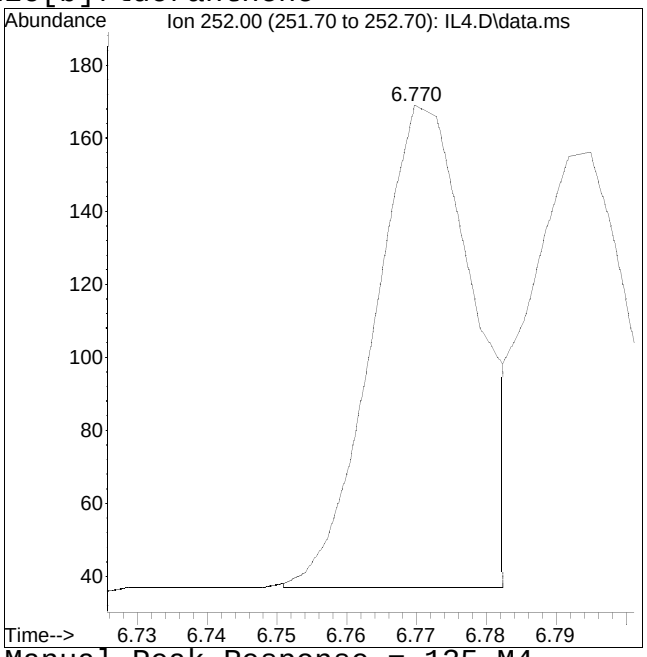
Manual Integration Report

Data Path : I:\8270SIM\SV128\231211LVIQMethod : SIM-LVI_231211_sv128.M
Data File : IL4.D Operator : SV128:dv
Date Inj'd : 12/11/2023 3:06 pm Instrument : SV128
Sample : IL4,32,, 0.05 Lot#10232 Quant Date : 12/15/2023 2:39 pm

Compound #37: Benzo[b]fluoranthene



Original Peak Response = 135



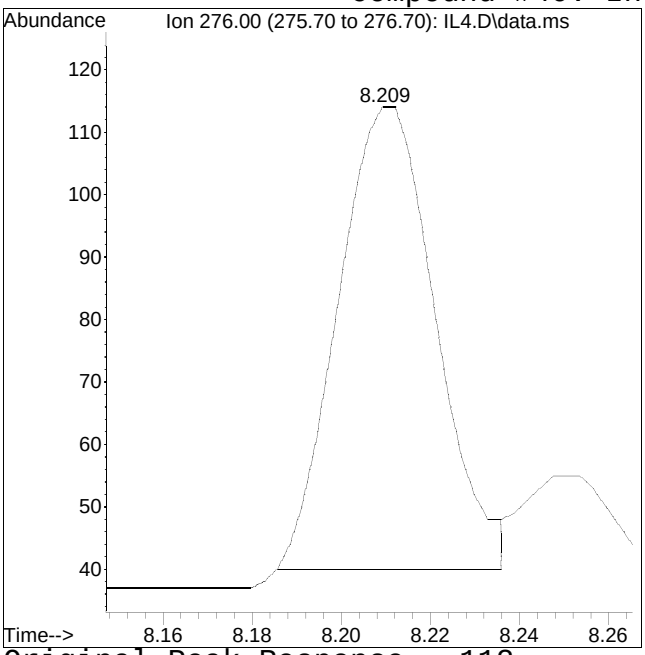
Manual Peak Response = 135 M4

M4 = Poor automated baseline construction.

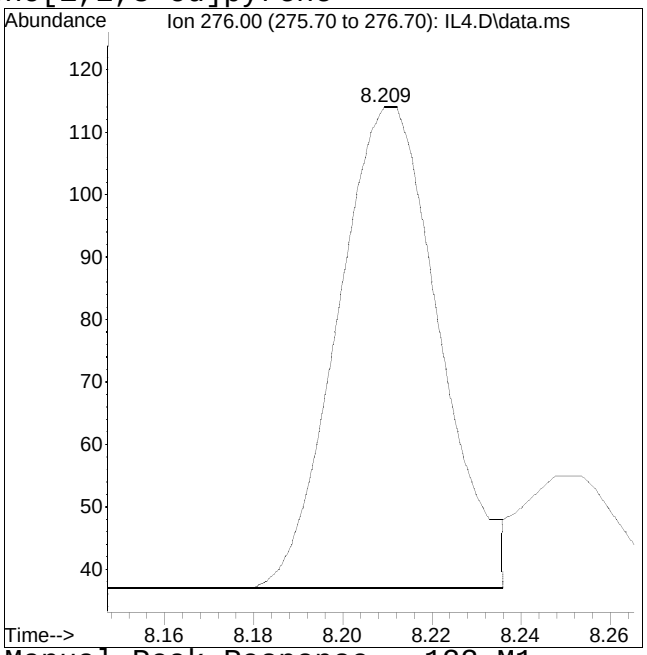
Manual Integration Report

Data Path : I:\8270SIM\SV128\231211LVIQMethod : SIM-LVI_231211_sv128.M
Data File : IL4.D Operator : SV128:dv
Date Inj'd : 12/11/2023 3:06 pm Instrument : SV128
Sample : IL4,32,, 0.05 Lot#10232 Quant Date : 12/15/2023 2:39 pm

Compound #40: Indeno[1,2,3-cd]pyrene



Original Peak Response = 112



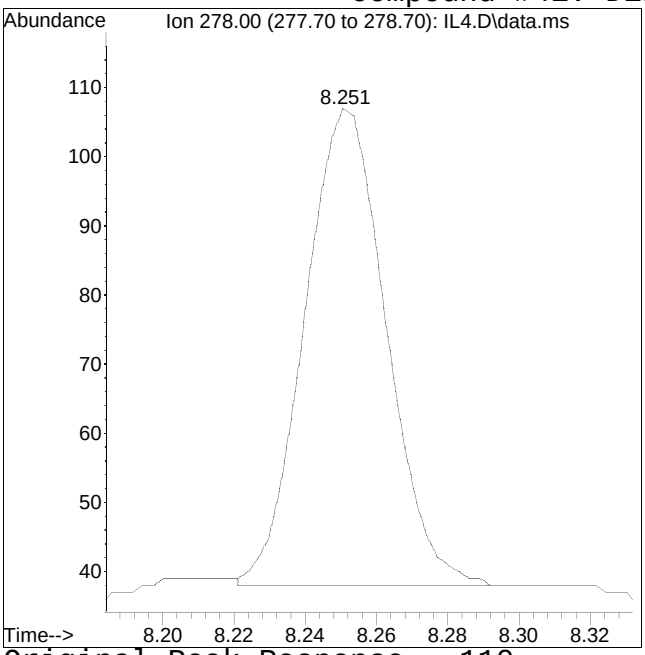
Manual Peak Response = 122 M1

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

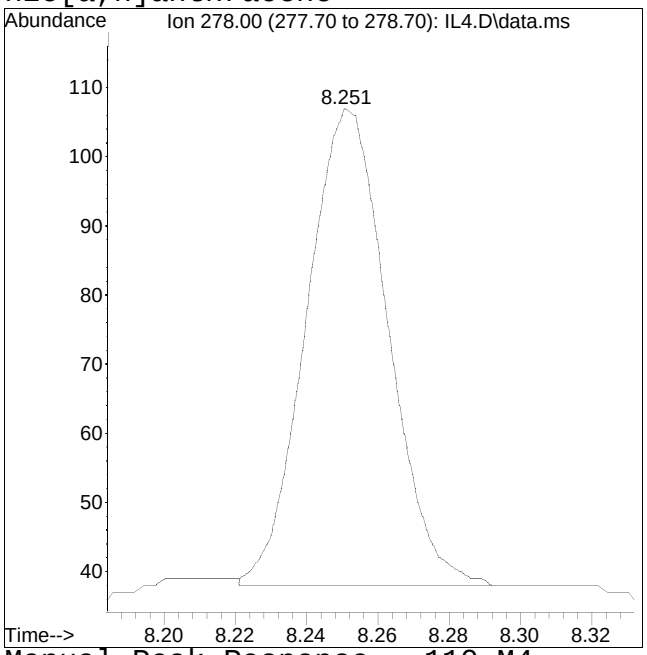
Manual Integration Report

Data Path : I:\8270SIM\SV128\231211LVIQMethod : SIM-LVI_231211_sv128.M
Data File : IL4.D Operator : SV128:dv
Date Inj'd : 12/11/2023 3:06 pm Instrument : SV128
Sample : IL4,32,, 0.05 Lot#10232 Quant Date : 12/15/2023 2:39 pm

Compound #41: Dibenzo[a,h]anthracene



Original Peak Response = 110



Manual Peak Response = 110 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV128\231211LVIical\
Data File : IL3.D
Acq On : 11 Dec 2023 03:23 pm
Operator : SV128:dv
Sample : IL3,32,, 0.025 Lot#10233
Misc : WG1864557,,ical
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Dec 15 14:43:54 2023
Quant Method : I:\8270SIM\SV128\231211LVIical\SIM-LVI_231211_sv128.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Dec 15 14:42:17 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\SV128\231211LVIical\IL7.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.014	152	3217	4000.000	ng/ml	0.00
Standard Area 1 = 2982			Recovery = 107.88%			
8) Naphthalene-d8	2.672	136	11081	4000.000	ng/ml	0.00
Standard Area 1 = 10566			Recovery = 104.87%			
17) Acenaphthene-d10	3.643	164	6028	4000.000	ng/ml	0.00
Standard Area 1 = 6070			Recovery = 99.31%			
22) Phenanthrene-d10	4.484	188	12310	4000.000	ng/ml	0.00
Standard Area 1 = 13526			Recovery = 91.01%			
31) Chrysene-d12	6.019	240	9868	4000.000	ng/ml	0.00
Standard Area 1 = 12766			Recovery = 77.30%			
36) Perylene-d12	7.101	264	11715	4000.000	ng/ml	0.00
Standard Area 1 = 15405			Recovery = 76.05%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.427	112	20	24.688	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 0.49%#			
3) Phenol-d6	1.835	99	23M6	24.294	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 0.49%#			
7) Nitrobenzene-d5	2.299	82	18	23.526	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 0.94%#			
13) 2-Fluorobiphenyl	3.270	172	59	25.107	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 1.00%#			
21) 2,4,6-Tribromophenol	4.089	330	7M7	23.238	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 0.46%#			
30) 4-Terphenyl-d14	5.420	244	64	24.955	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 1.00%#			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	1.888	93	20M6	24.735	ng/ml	
5) n-nitrosodi-n-propylamine	2.226	70	13M2	23.031	ng/ml	
6) Hexachloroethane	2.271	117	9	23.425	ng/ml	93
9) Naphthalene	2.684	128	72M7	25.338	ng/ml	
10) Hexachlorobutadiene	2.760	225	17M7	26.116	ng/ml	
11) 2-Methylnaphthalene	3.063	142	44M7	24.239	ng/ml	
12) 1-Methylnaphthalene	3.118	142	42	24.569	ng/ml	98
14) 2-Chloronaphthalene	3.331	162	50	25.301	ng/ml	94
15) 2,6-Dinitrotoluene	0.000		0	N.D.	d	

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV128\231211LVIical\
Data File : IL3.D
Acq On : 11 Dec 2023 03:23 pm
Operator : SV128:dv
Sample : IL3,32,, 0.025 Lot#10233
Misc : WG1864557,,ical
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Dec 15 14:43:54 2023
Quant Method : I:\8270SIM\SV128\231211LVIical\SIM-LVI_231211_sv128.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Dec 15 14:42:17 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\SV128\231211LVIical\IL7.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
16) Acenaphthylene	3.561	152	69	23.570	ng/ml	97
18) Acenaphthene	3.661	153	51M6	25.028	ng/ml	
19) 2,4-Dinitrotoluene	0.000		0	N.D.	d	
20) Fluorene	3.952	166	49	23.826	ng/ml	85
23) 4,6-Dinitro-o-cresol	0.000		0	N.D.	d	
24) Hexachlorobenzene	4.271	284	20M6	24.416	ng/ml	
25) Pentachlorophenol	4.384	266	5M2	30.617	ng/ml	
26) Phenanthrene	4.499	178	86M6	25.835	ng/ml	
27) Anthracene	4.529	178	79M4	24.561	ng/ml	
28) Fluoranthene	5.184	202	87M7	23.789	ng/ml	
29) Pyrene	5.312	202	89	23.521	ng/ml	97
32) Benzo[a]anthracene	6.014	228	111	27.834	ng/ml	92
33) 3,3'-Dichlorobenzidine	0.000		0	N.D.	d	
34) Chrysene	6.036	228	88	25.867	ng/ml	98
35) Bis(2-ethylhexyl)phtha...	0.000		0	N.D.	d	
37) Benzo[b]fluoranthene	6.771	252	86M6	23.705	ng/ml	
38) Benzo[k]fluoranthene	6.793	252	75	22.215	ng/ml	97
39) Benzo[a]pyrene	7.044	252	74	23.163	ng/ml	97
40) Indeno[1,2,3-cd]pyrene	8.207	276	82M1	25.670	ng/ml	
41) Dibenzo[a,h]anthracene	8.251	278	74	23.851	ng/ml	96
42) Benzo[g,h,i]perylene	8.517	276	84	25.298	ng/ml	93

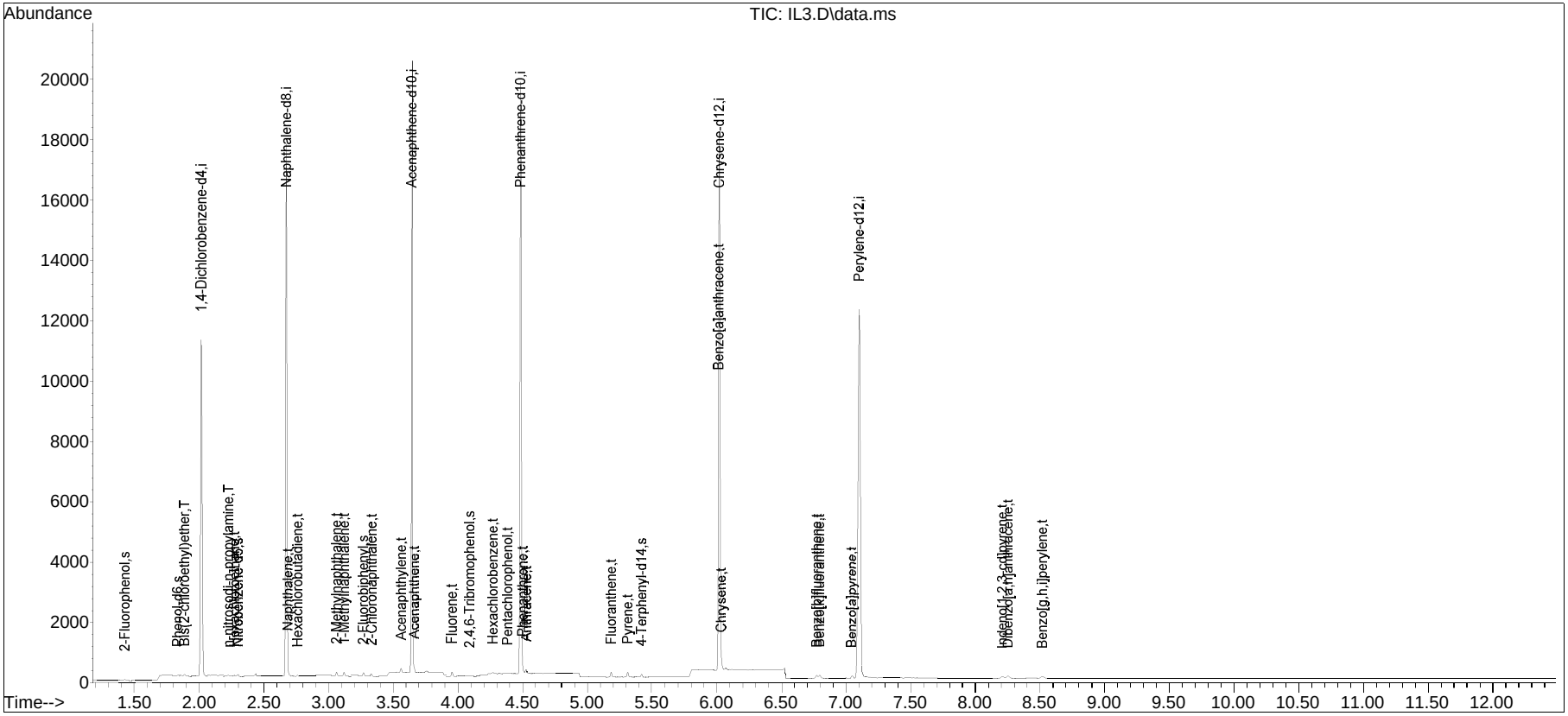
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV128\231211LVIical\
Data File : IL3.D
Acq On : 11 Dec 2023 03:23 pm
Operator : SV128:dv
Sample : IL3,32,, 0.025 Lot#10233
Misc : WG1864557,,ical
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Dec 15 14:43:54 2023
Quant Method : I:\8270SIM\SV128\231211LVIical\SIM-LVI_231211_sv128.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Dec 15 14:42:17 2023
Response via : Initial Calibration

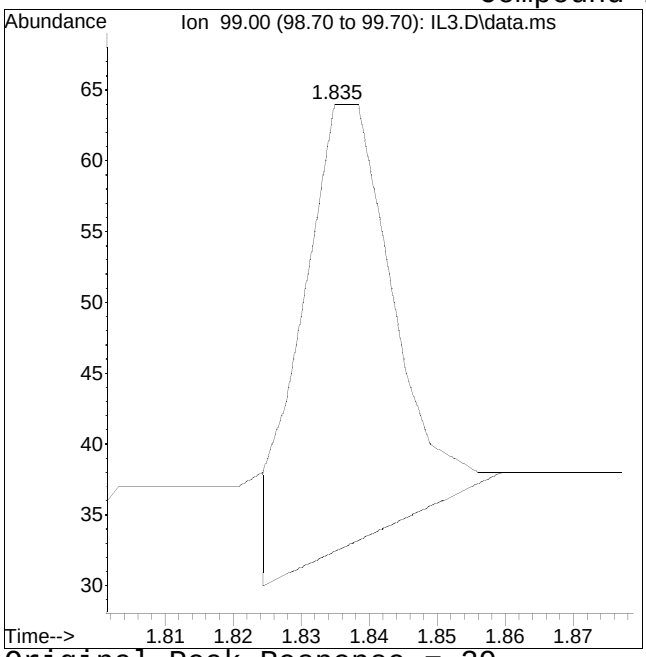
Sub List : Default - All compounds listedical\IL7.D•



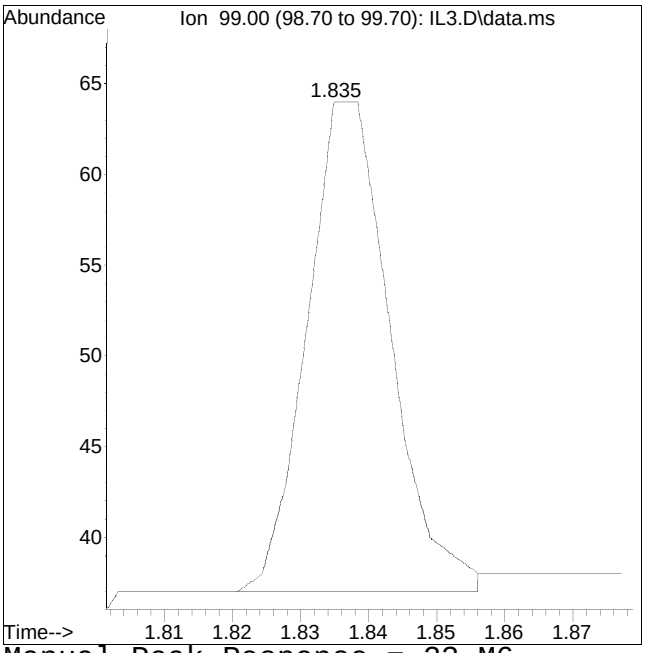
Manual Integration Report

Data Path : I:\8270SIM\SV128\231211LVIQ
Data File : IL3.D
Date Inj'd : 12/11/2023 3:23 pm
Sample : IL3,32,, 0.025 Lot#10233
Method : SIM-LVI_231211_sv128.M
Operator : SV128:dv
Instrument : SV128
Quant Date : 12/15/2023 2:42 pm

Compound #3: Phenol-d6



Original Peak Response = 29



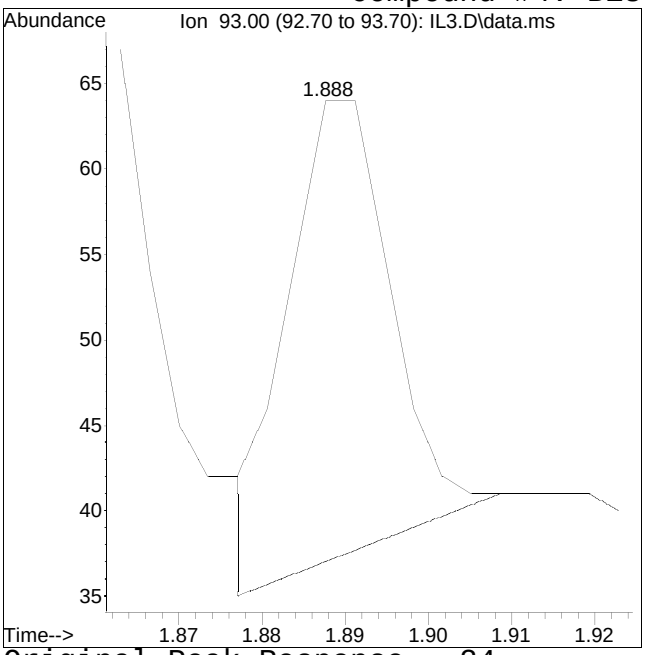
Manual Peak Response = 23 M6

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

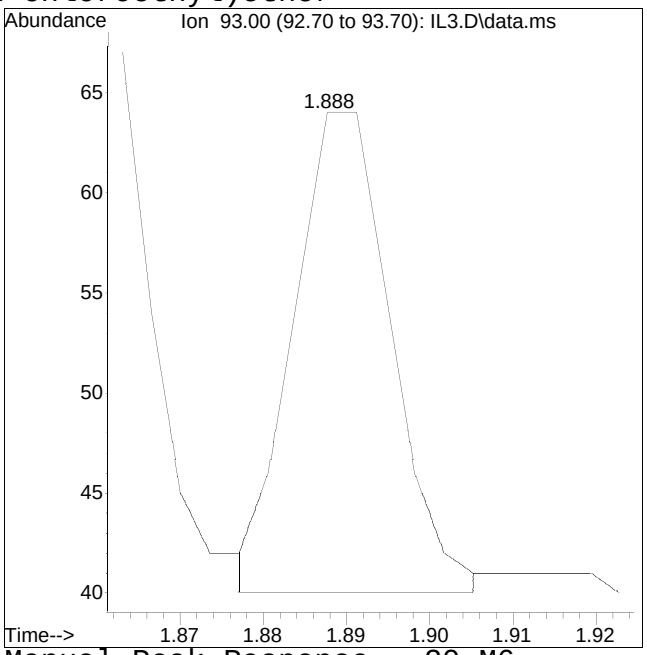
Manual Integration Report

Data Path : I:\8270SIM\SV128\231211LVIQMethod : SIM-LVI_231211_sv128.M
Data File : IL3.D Operator : SV128:dv
Date Inj'd : 12/11/2023 3:23 pm Instrument : SV128
Sample : IL3,32,, 0.025 Lot#10233 Quant Date : 12/15/2023 2:42 pm

Compound #4: Bis(2-chloroethyl)ether



Original Peak Response = 24



Manual Peak Response = 20 M6

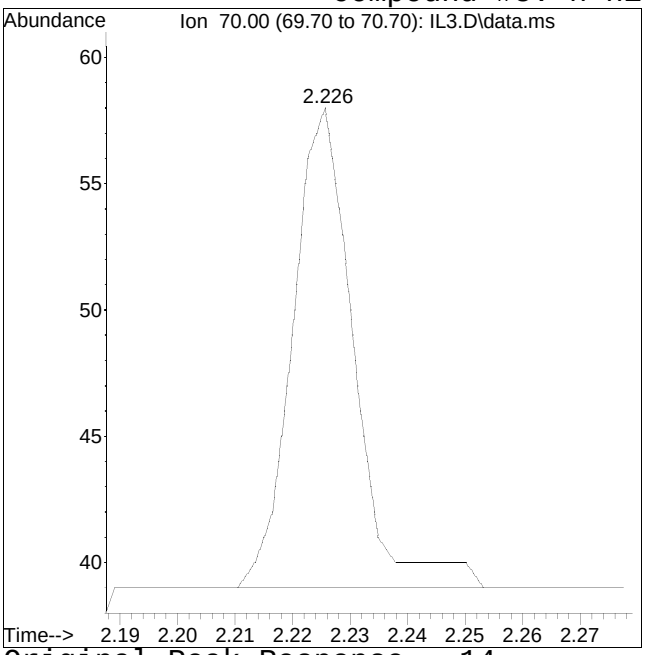
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

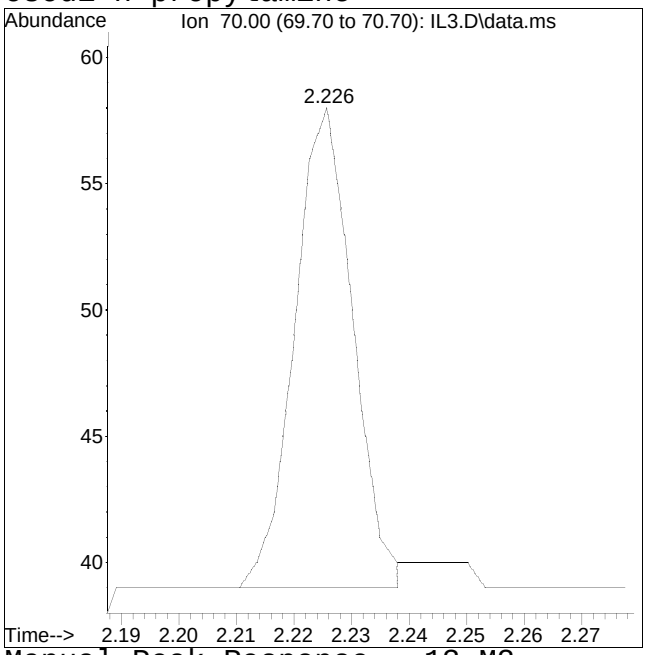
Data Path : I:\8270SIM\SV128\231211LVIQ
Data File : IL3.D
Date Inj'd : 12/11/2023 3:23 pm
Sample : IL3,32,, 0.025 Lot#10233

Method : SIM-LVI_231211_sv128.M
Operator : SV128:dv
Instrument : SV128
Quant Date : 12/15/2023 2:42 pm

Compound #5: n-nitrosodi-n-propylamine



Original Peak Response = 14



Manual Peak Response = 13 M2

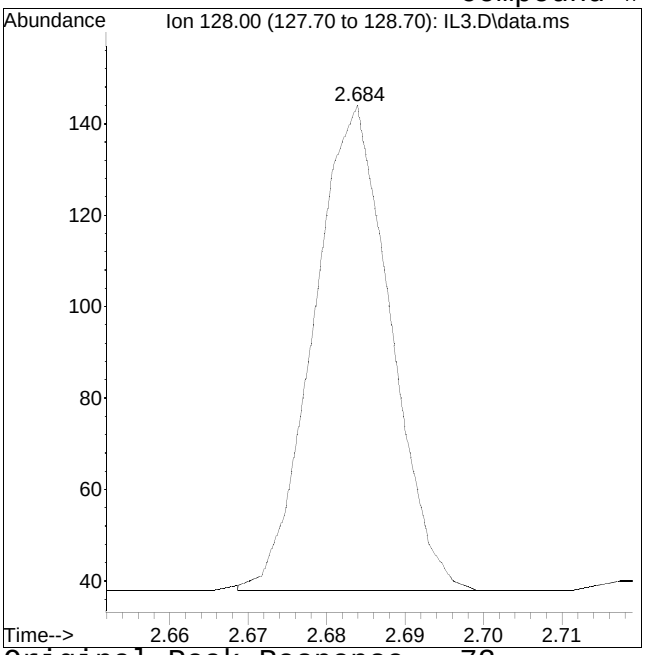
M2 = Peak not found by automatic integration algorithm.

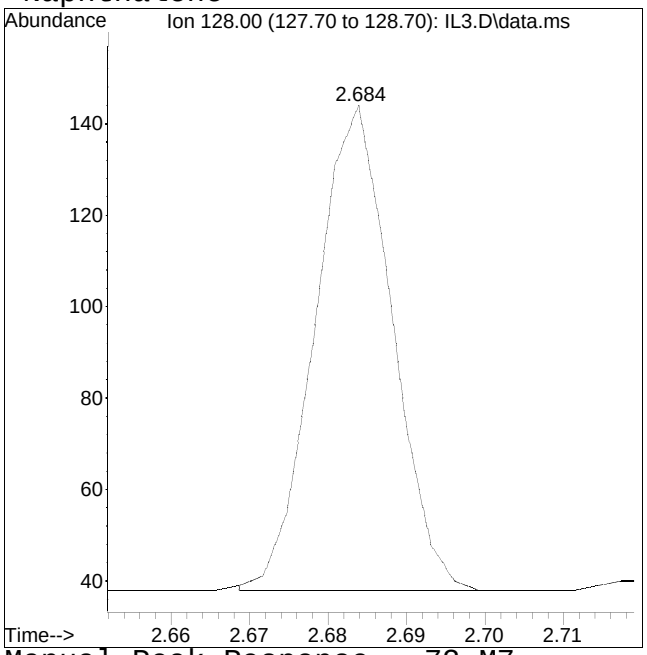
Manual Integration Report

Data Path : I:\8270SIM\SV128\231211LVIQ
Data File : IL3.D
Date Inj'd : 12/11/2023 3:23 pm
Sample : IL3,32,, 0.025 Lot#10233

Method : SIM-LVI_231211_sv128.M
Operator : SV128:dv
Instrument : SV128
Quant Date : 12/15/2023 2:42 pm

Compound #9: Naphthalene



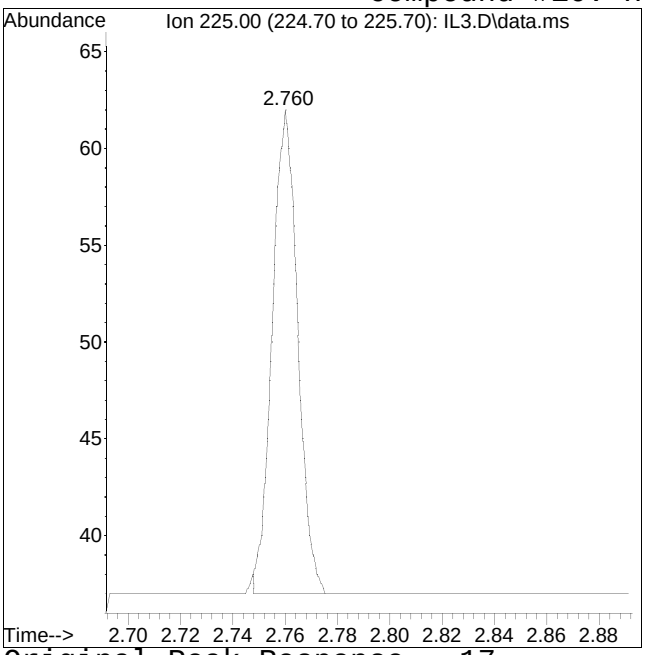


Original Peak Response = 72
Manual Peak Response = 72 M7
M7 = A qualifier ion was manually integrated (only for GC/MS data).

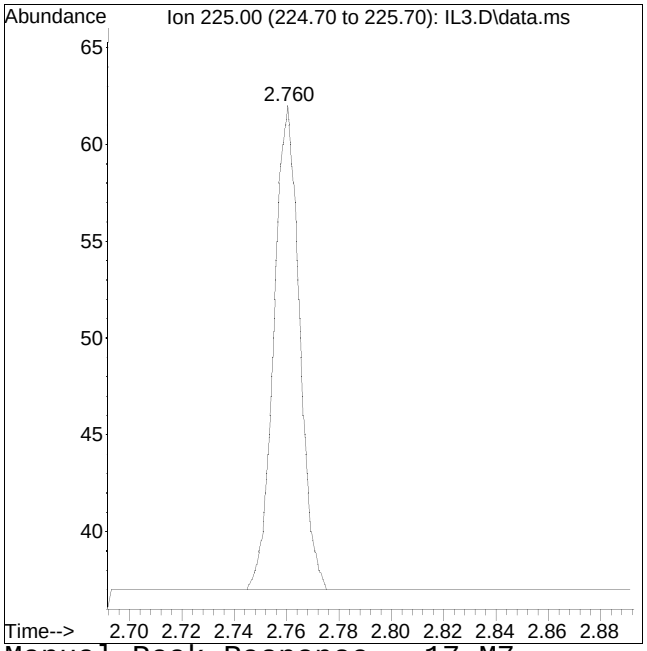
Manual Integration Report

Data Path : I:\8270SIM\SV128\231211LVIQMethod : SIM-LVI_231211_sv128.M
Data File : IL3.D Operator : SV128:dv
Date Inj'd : 12/11/2023 3:23 pm Instrument : SV128
Sample : IL3,32,, 0.025 Lot#10233 Quant Date : 12/15/2023 2:42 pm

Compound #10: Hexachlorobutadiene



Original Peak Response = 17



Manual Peak Response = 17 M7

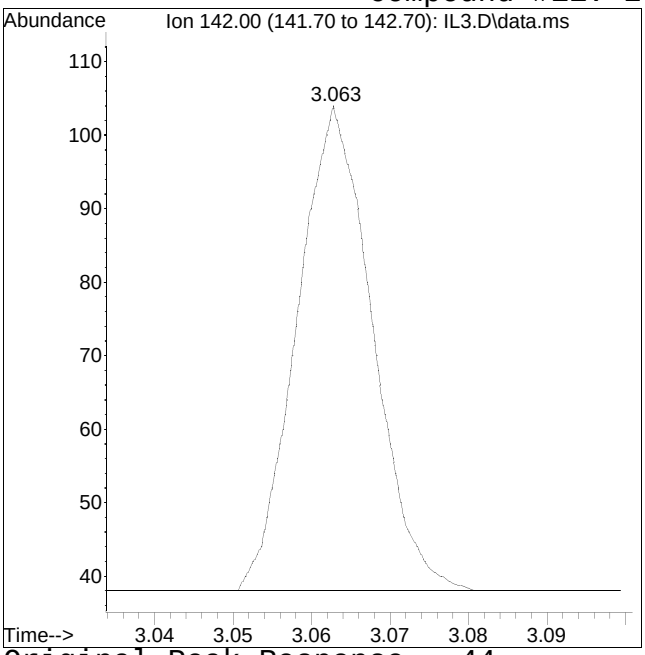
M7 = A qualifier ion was manually integrated (only for GC/MS data).

Manual Integration Report

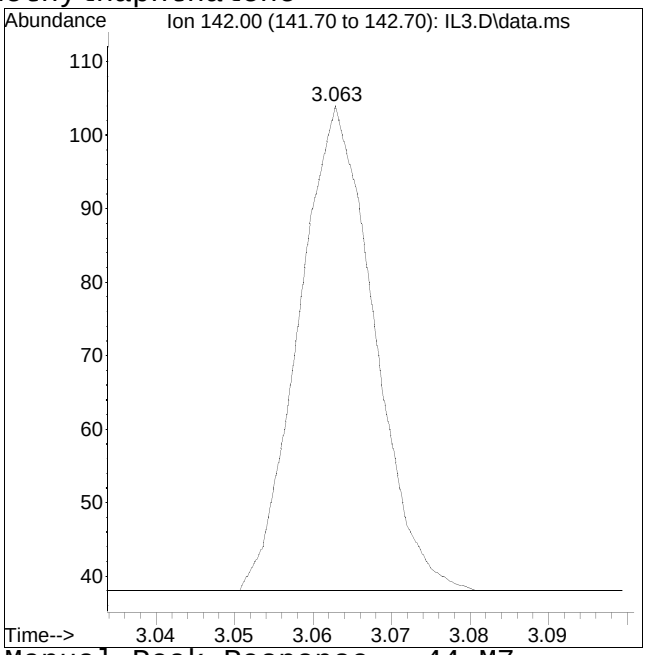
Data Path : I:\8270SIM\SV128\231211LVIQ
Data File : IL3.D
Date Inj'd : 12/11/2023 3:23 pm
Sample : IL3,32,, 0.025 Lot#10233

Method : SIM-LVI_231211_sv128.M
Operator : SV128:dv
Instrument : SV128
Quant Date : 12/15/2023 2:42 pm

Compound #11: 2-Methylnaphthalene



Original Peak Response = 44



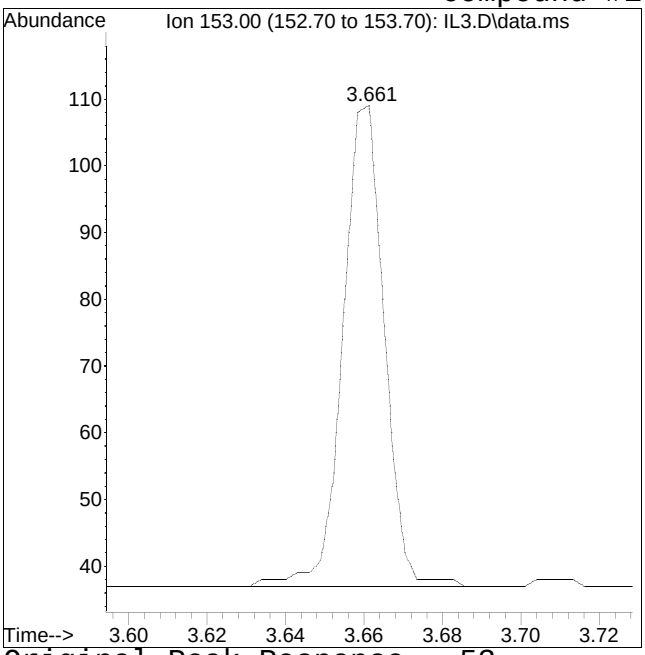
Manual Peak Response = 44 M7

M7 = A qualifier ion was manually integrated (only for GC/MS data).

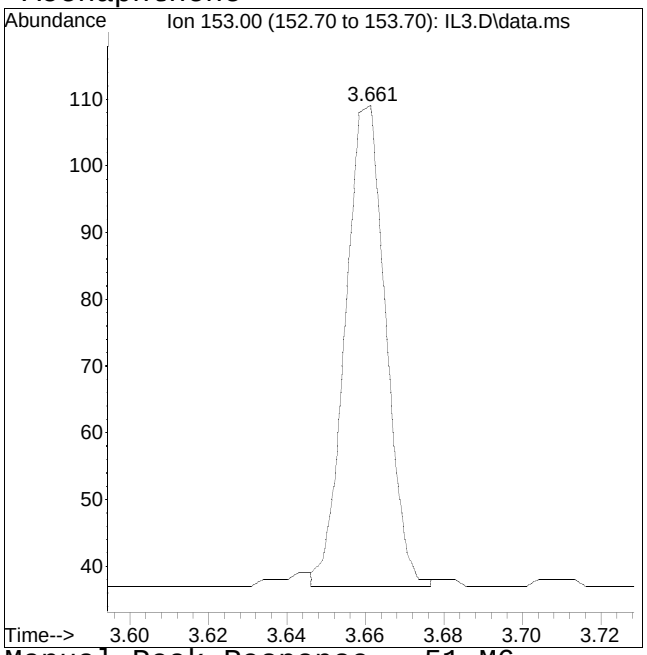
Manual Integration Report

Data Path : I:\8270SIM\SV128\231211LVIQMethod : SIM-LVI_231211_sv128.M
Data File : IL3.D Operator : SV128:dv
Date Inj'd : 12/11/2023 3:23 pm Instrument : SV128
Sample : IL3,32,, 0.025 Lot#10233 Quant Date : 12/15/2023 2:42 pm

Compound #18: Acenaphthene



Original Peak Response = 53



Manual Peak Response = 51 M6

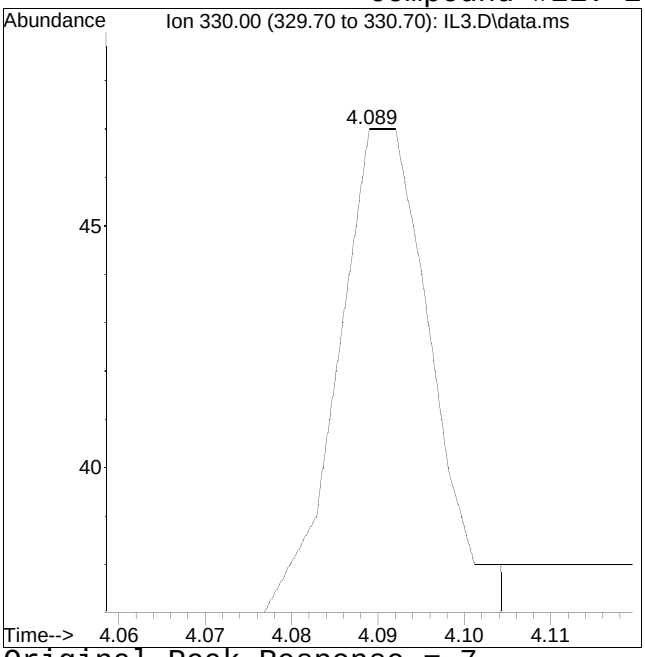
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

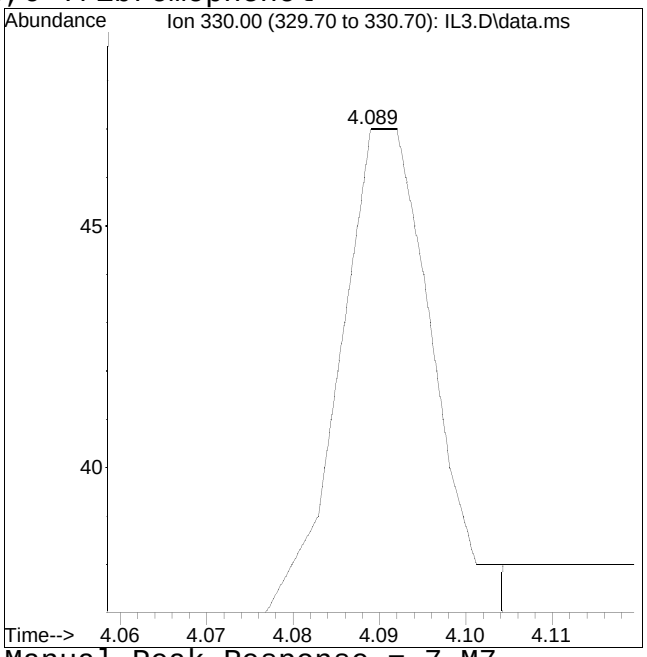
Data Path : I:\8270SIM\SV128\231211LVIQ
Data File : IL3.D
Date Inj'd : 12/11/2023 3:23 pm
Sample : IL3,32,, 0.025 Lot#10233

Method : SIM-LVI_231211_sv128.M
Operator : SV128:dv
Instrument : SV128
Quant Date : 12/15/2023 2:42 pm

Compound #21: 2,4,6-Tribromophenol



Original Peak Response = 7



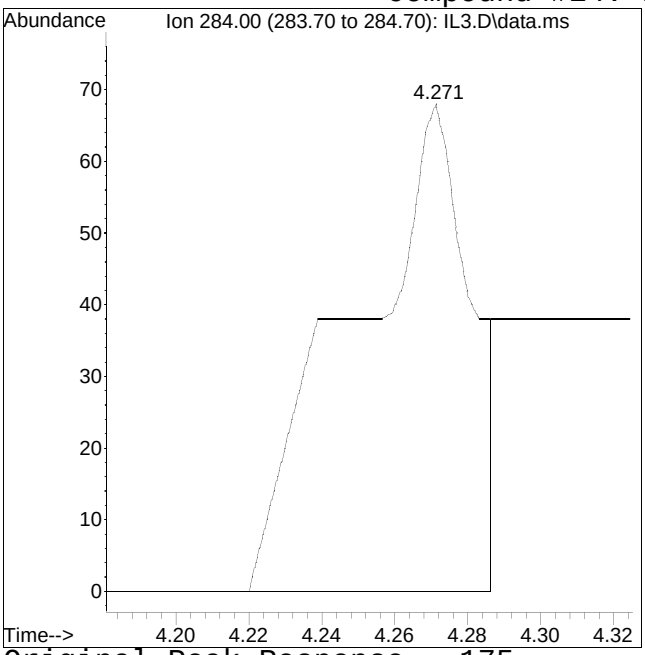
Manual Peak Response = 7 M7

M7 = A qualifier ion was manually integrated (only for GC/MS data).

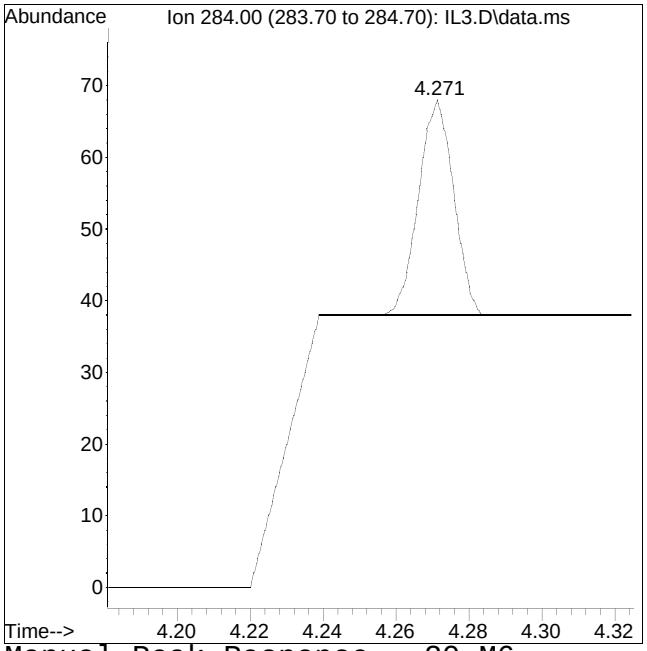
Manual Integration Report

Data Path : I:\8270SIM\SV128\231211LVIQMethod : SIM-LVI_231211_sv128.M
Data File : IL3.D Operator : SV128:dv
Date Inj'd : 12/11/2023 3:23 pm Instrument : SV128
Sample : IL3,32,, 0.025 Lot#10233 Quant Date : 12/15/2023 2:42 pm

Compound #24: Hexachlorobenzene



Original Peak Response = 175



Manual Peak Response = 20 M6

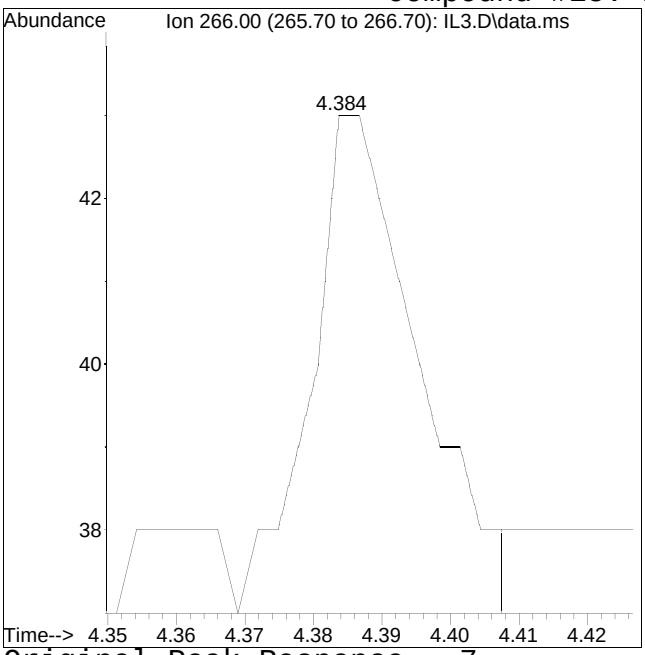
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

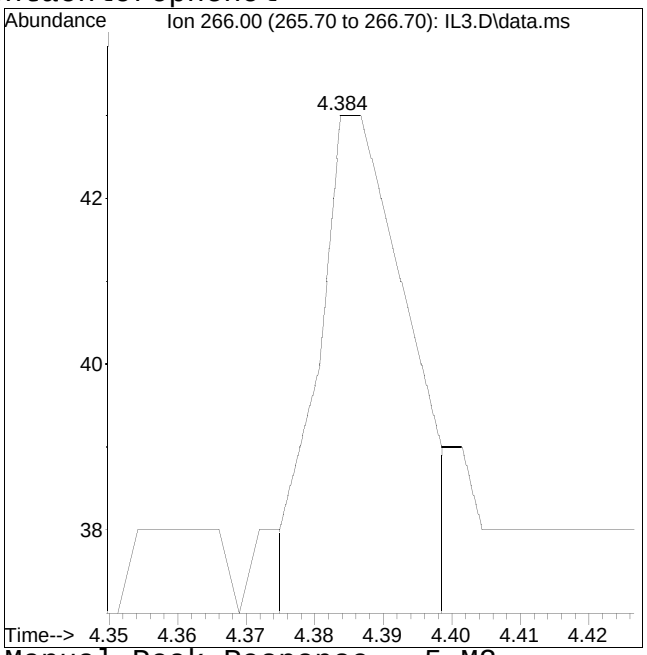
Data Path : I:\8270SIM\SV128\231211LVIQ
Data File : IL3.D
Date Inj'd : 12/11/2023 3:23 pm
Sample : IL3,32,, 0.025 Lot#10233

Method : SIM-LVI_231211_sv128.M
Operator : SV128:dv
Instrument : SV128
Quant Date : 12/15/2023 2:42 pm

Compound #25: Pentachlorophenol



Original Peak Response = 7



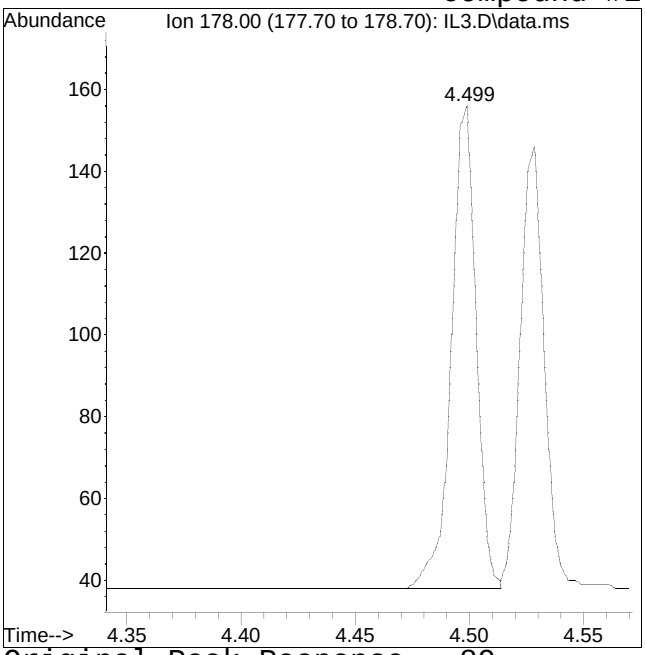
Manual Peak Response = 5 M2

M2 = Peak not found by automatic integration algorithm.

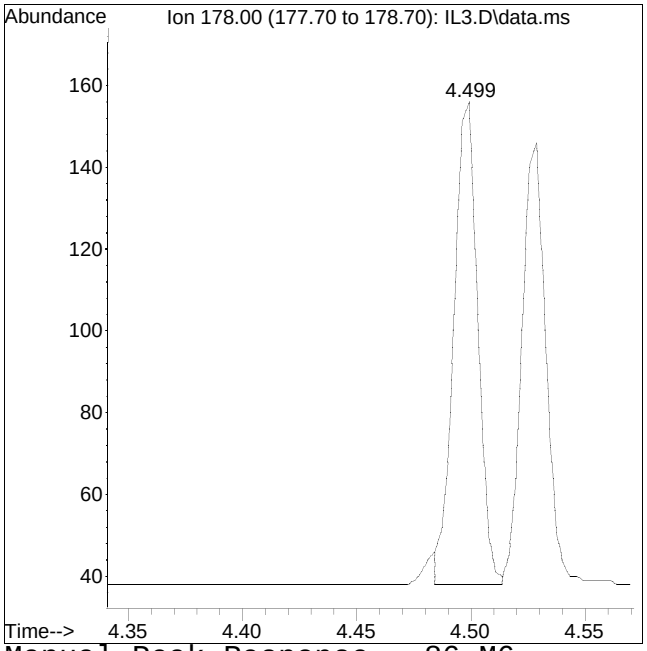
Manual Integration Report

Data Path : I:\8270SIM\SV128\231211LVIQMethod : SIM-LVI_231211_sv128.M
Data File : IL3.D Operator : SV128:dv
Date Inj'd : 12/11/2023 3:23 pm Instrument : SV128
Sample : IL3,32,, 0.025 Lot#10233 Quant Date : 12/15/2023 2:42 pm

Compound #26: Phenanthrene



Original Peak Response = 89



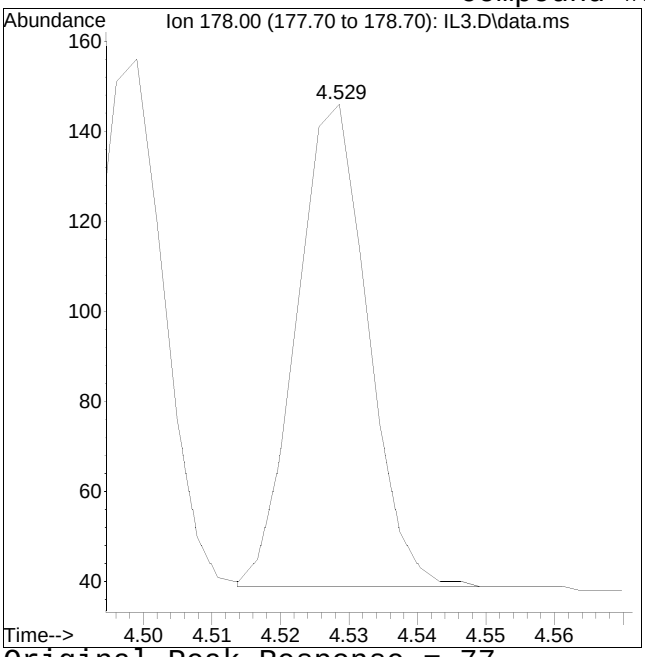
Manual Peak Response = 86 M6

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

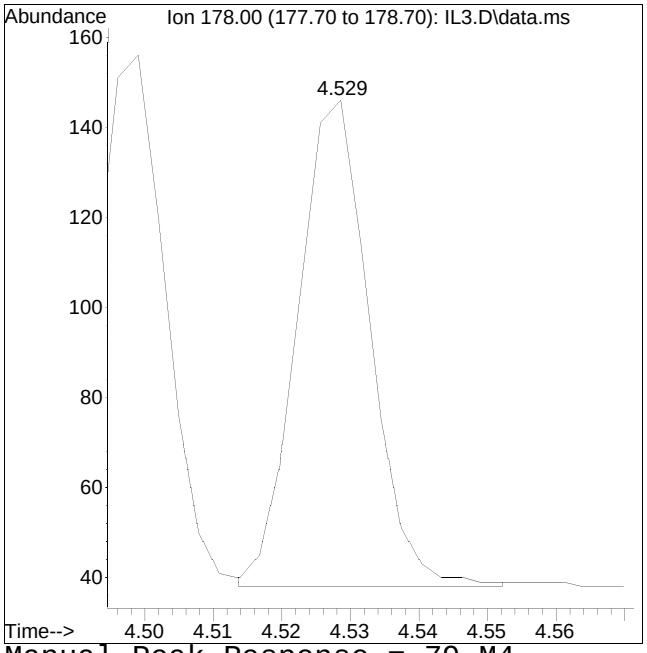
Manual Integration Report

Data Path : I:\8270SIM\SV128\231211LVIQMethod : SIM-LVI_231211_sv128.M
Data File : IL3.D Operator : SV128:dv
Date Inj'd : 12/11/2023 3:23 pm Instrument : SV128
Sample : IL3,32,, 0.025 Lot#10233 Quant Date : 12/15/2023 2:42 pm

Compound #27: Anthracene



Original Peak Response = 77



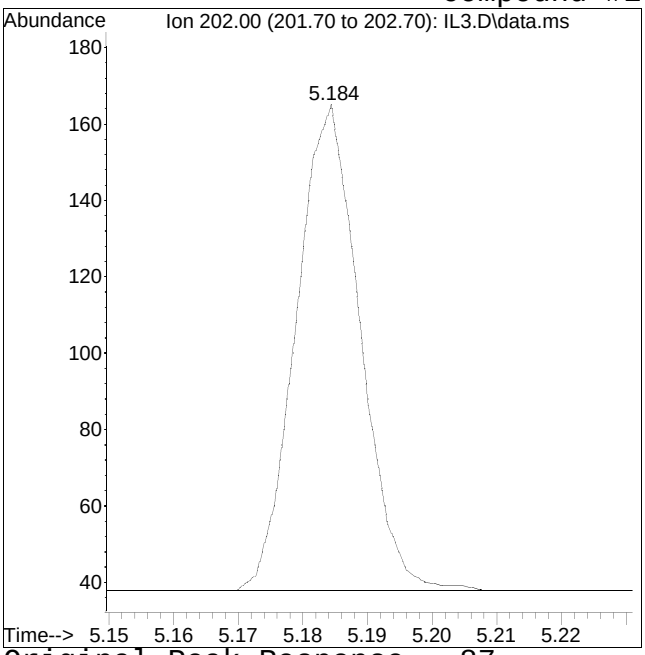
Manual Peak Response = 79 M4

M4 = Poor automated baseline construction.

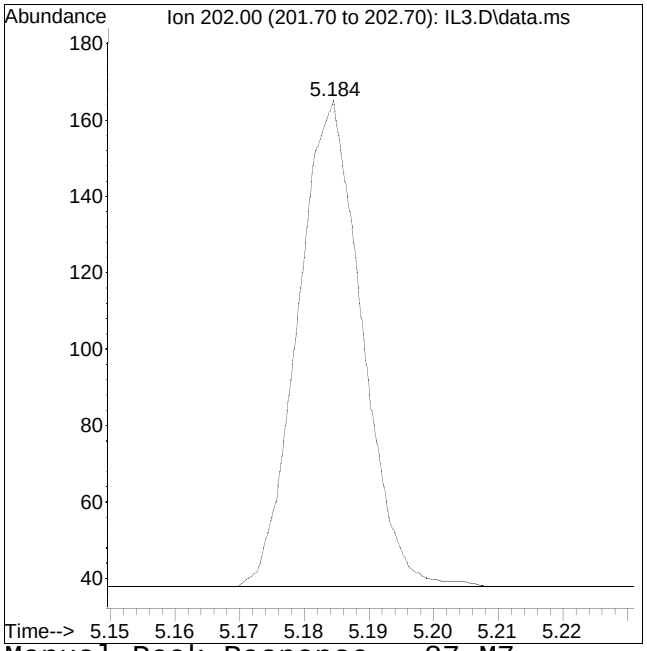
Manual Integration Report

Data Path : I:\8270SIM\SV128\231211LVIQMethod : SIM-LVI_231211_sv128.M
Data File : IL3.D Operator : SV128:dv
Date Inj'd : 12/11/2023 3:23 pm Instrument : SV128
Sample : IL3,32,, 0.025 Lot#10233 Quant Date : 12/15/2023 2:42 pm

Compound #28: Fluoranthene



Original Peak Response = 87



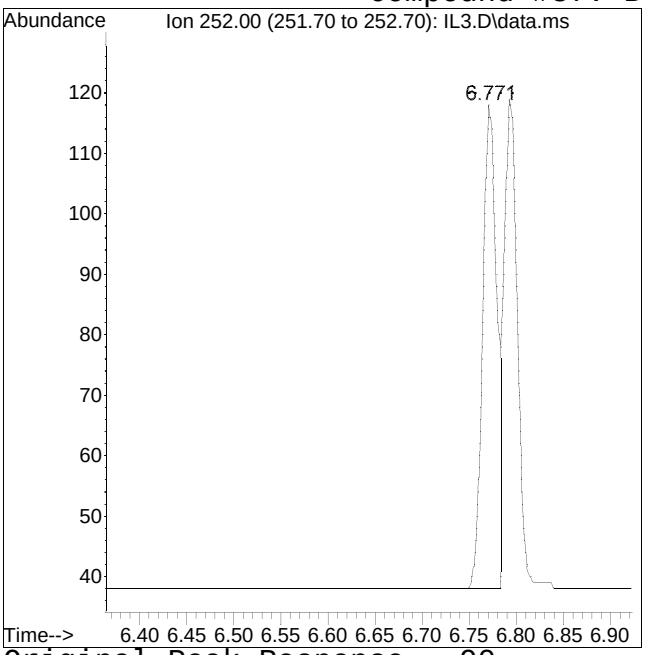
Manual Peak Response = 87 M7

M7 = A qualifier ion was manually integrated (only for GC/MS data).

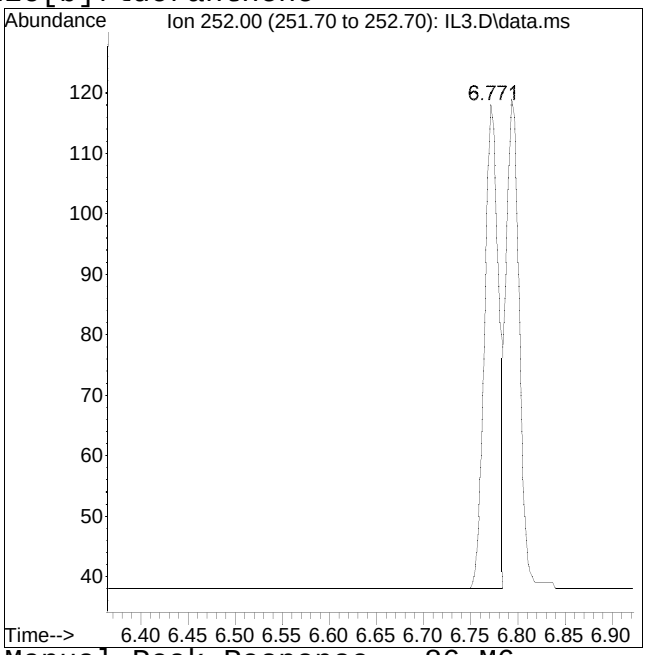
Manual Integration Report

Data Path : I:\8270SIM\SV128\231211LVIQMethod : SIM-LVI_231211_sv128.M
Data File : IL3.D Operator : SV128:dv
Date Inj'd : 12/11/2023 3:23 pm Instrument : SV128
Sample : IL3,32,, 0.025 Lot#10233 Quant Date : 12/15/2023 2:42 pm

Compound #37: Benzo[b]fluoranthene



Original Peak Response = 90



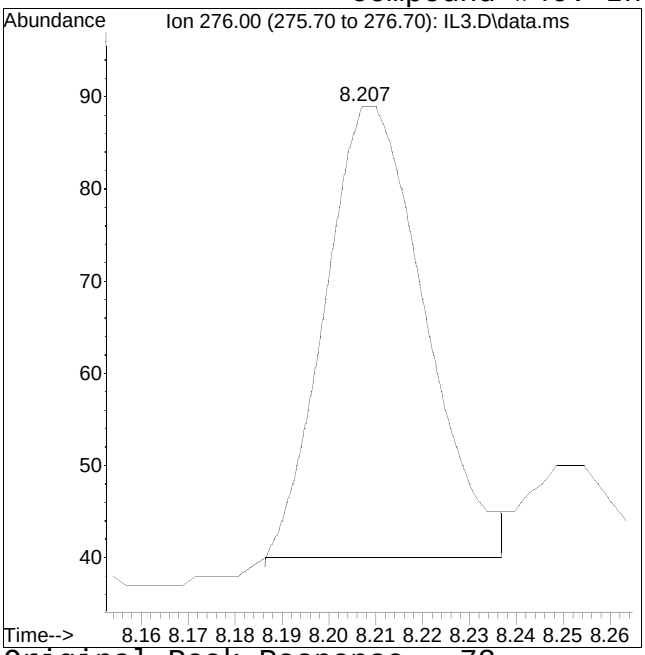
Manual Peak Response = 86 M6

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

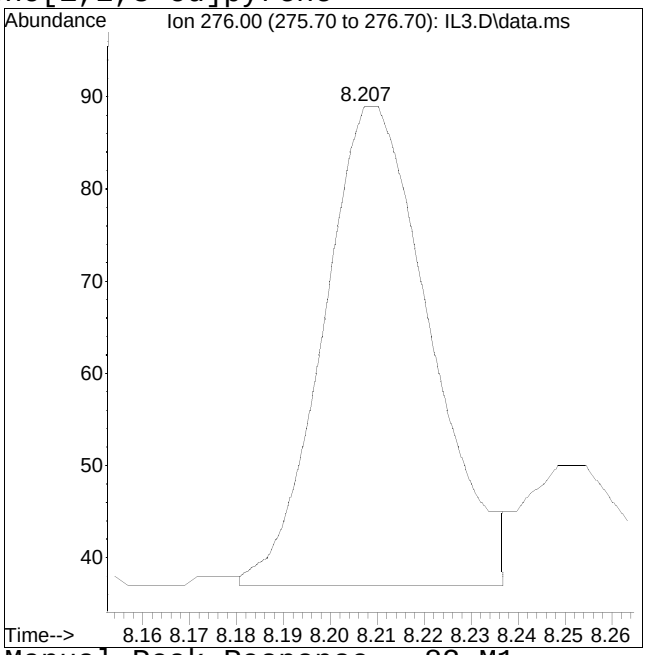
Manual Integration Report

Data Path : I:\8270SIM\SV128\231211LVIQMethod : SIM-LVI_231211_sv128.M
Data File : IL3.D Operator : SV128:dv
Date Inj'd : 12/11/2023 3:23 pm Instrument : SV128
Sample : IL3,32,, 0.025 Lot#10233 Quant Date : 12/15/2023 2:42 pm

Compound #40: Indeno[1,2,3-cd]pyrene



Original Peak Response = 72



Manual Peak Response = 82 M1

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV128\231211LVIical\
Data File : IL2.D
Acq On : 11 Dec 2023 03:40 pm
Operator : SV128:dv
Sample : IL2,32,, 0.01 Lot#10234
Misc : WG1864557,,ical
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Dec 15 14:48:57 2023
Quant Method : I:\8270SIM\SV128\231211LVIical\SIM-LVI_231211_sv128.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Dec 15 14:46:36 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\SV128\231211LVIical\IL7.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.016	152	3426	4000.000	ng/ml	0.00
Standard Area 1 = 2982			Recovery = 114.89%			
8) Naphthalene-d8	2.673	136	11890	4000.000	ng/ml	0.00
Standard Area 1 = 10566			Recovery = 112.53%			
17) Acenaphthene-d10	3.641	164	6567	4000.000	ng/ml	0.00
Standard Area 1 = 6070			Recovery = 108.19%			
22) Phenanthrene-d10	4.485	188	13551	4000.000	ng/ml	0.00
Standard Area 1 = 13526			Recovery = 100.18%			
31) Chrysene-d12	6.023	240	11409	4000.000	ng/ml	0.00
Standard Area 1 = 12766			Recovery = 89.37%			
36) Perylene-d12	7.115	264	13573	4000.000	ng/ml	0.01
Standard Area 1 = 15405			Recovery = 88.11%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.424	112	7M7	8.114	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 0.16%#			
3) Phenol-d6	1.837	99	9M6	8.926	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 0.18%#			
7) Nitrobenzene-d5	2.297	82	7	8.591	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 0.34%#			
13) 2-Fluorobiphenyl	3.271	172	24M6	9.518	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 0.38%#			
21) 2,4,6-Tribromophenol	0.000	330	0	0.000	ng/ml	
Spiked Amount 5000.000	Range 15 - 110		Recovery = 0.00%#			
30) 4-Terphenyl-d14	5.421	244	30M7	10.626	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 0.43%#			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	1.890	93	8M4	9.290	ng/ml	
5) n-nitrosodi-n-propylamine	2.224	70	6M7	9.981	ng/ml	
6) Hexachloroethane	0.000		0	N.D.	d	
9) Naphthalene	2.682	128	30M6	9.839	ng/ml	
10) Hexachlorobutadiene	0.000		0	N.D.		
11) 2-Methylnaphthalene	3.064	142	18M6	9.241	ng/ml	
12) 1-Methylnaphthalene	3.116	142	18	9.813	ng/ml	97

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV128\231211LVIical\
Data File : IL2.D
Acq On : 11 Dec 2023 03:40 pm
Operator : SV128:dv
Sample : IL2,32,, 0.01 Lot#10234
Misc : WG1864557,,ical
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Dec 15 14:48:57 2023
Quant Method : I:\8270SIM\SV128\231211LVIical\SIM-LVI_231211_sv128.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Dec 15 14:46:36 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\SV128\231211LVIical\IL7.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
14) 2-Chloronaphthalene	3.332	162	20M6	9.432	ng/ml	
15) 2,6-Dinitrotoluene	0.000		0	N.D.	d	
16) Acenaphthylene	3.562	152	29M7	9.232	ng/ml	
18) Acenaphthene	3.659	153	22M6	9.910	ng/ml	
19) 2,4-Dinitrotoluene	0.000		0	N.D.		
20) Fluorene	3.953	166	21M6	9.373	ng/ml	
23) 4,6-Dinitro-o-cresol	0.000		0	N.D.		
24) Hexachlorobenzene	4.272	284	9M6	9.981	ng/ml	
25) Pentachlorophenol	0.000		0	N.D.		
26) Phenanthrene	4.497	178	40M6	10.916	ng/ml	
27) Anthracene	4.526	178	37	10.450	ng/ml	96
28) Fluoranthene	5.185	202	39M7	9.687	ng/ml	
29) Pyrene	5.313	202	41	9.843	ng/ml	100
32) Benzo[a]anthracene	6.020	228	75M1	11.804	ng/ml	
33) 3,3'-Dichlorobenzidine	0.000		0	N.D.	d	
34) Chrysene	6.039	228	39M6	9.915	ng/ml	
35) Bis(2-ethylhexyl)phtha...	0.000		0	N.D.	d	
37) Benzo[b]fluoranthene	6.782	252	39M4	9.278	ng/ml	
38) Benzo[k]fluoranthene	6.801	252	37	9.459	ng/ml	94
39) Benzo[a]pyrene	7.055	252	34	9.186	ng/ml	96
40) Indeno[1,2,3-cd]pyrene	8.223	276	35M1	9.457	ng/ml	
41) Dibenzo[a,h]anthracene	8.268	278	34M7	9.459	ng/ml	
42) Benzo[g,h,i]perylene	8.534	276	38	9.878	ng/ml	94

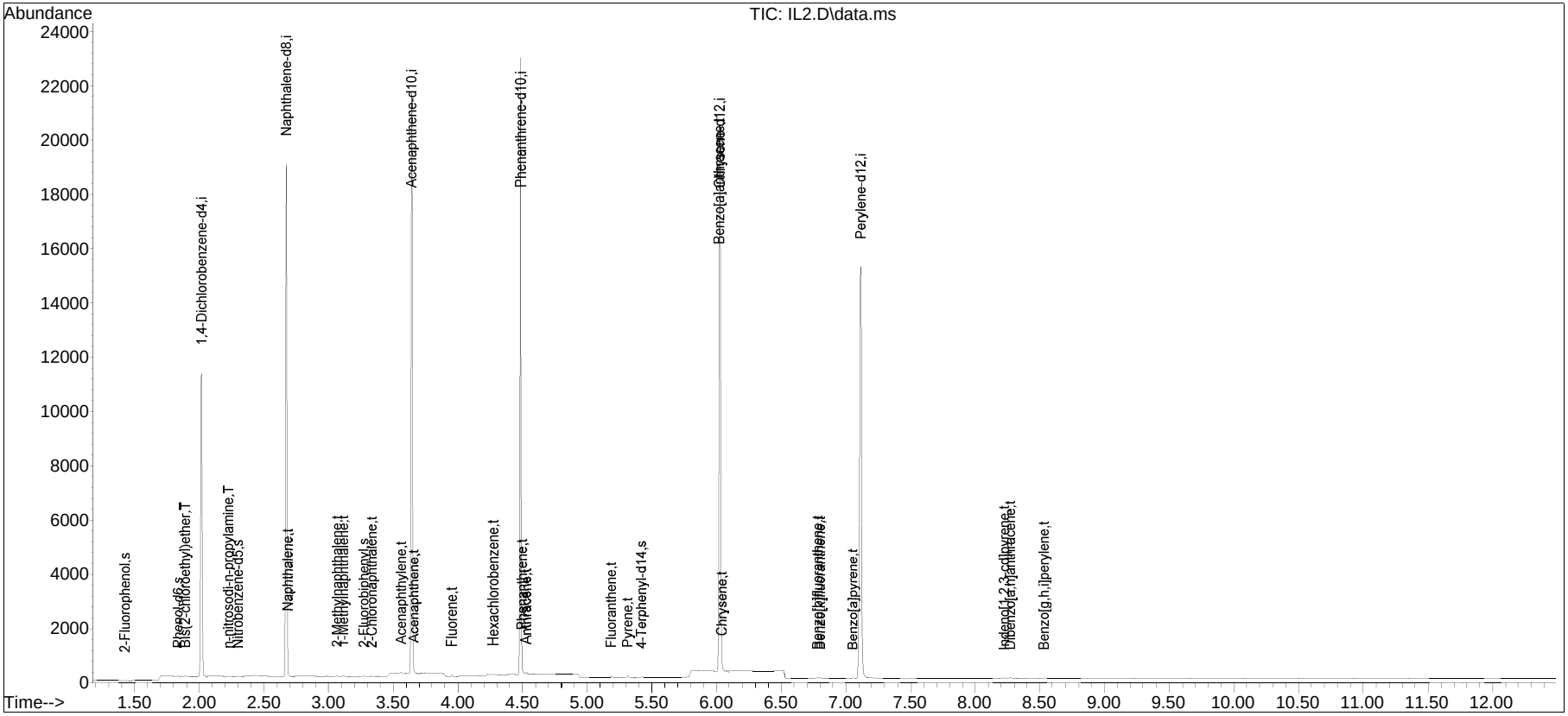
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV128\231211LVIical\
Data File : IL2.D
Acq On : 11 Dec 2023 03:40 pm
Operator : SV128:dv
Sample : IL2,32,, 0.01 Lot#10234
Misc : WG1864557,,ical
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Dec 15 14:48:57 2023
Quant Method : I:\8270SIM\SV128\231211LVIical\SIM-LVI_231211_sv128.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Dec 15 14:46:36 2023
Response via : Initial Calibration

Sub List : Default - All compounds listedical\IL7.D•

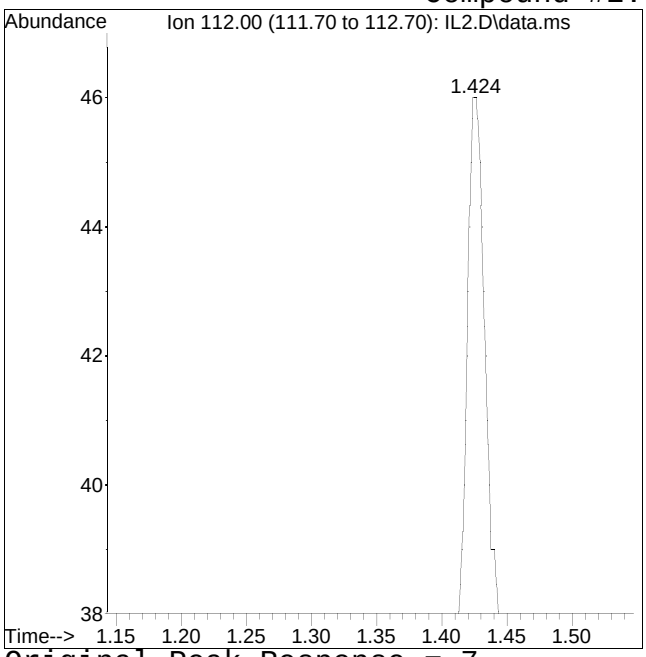


Manual Integration Report

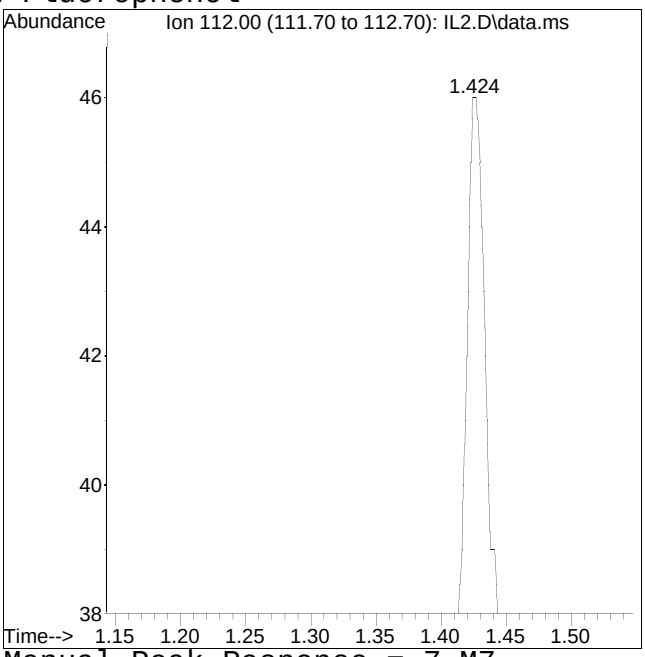
Data Path : I:\8270SIM\SV128\231211LVIQ
Data File : IL2.D
Date Inj'd : 12/11/2023 3:40 pm
Sample : IL2,32,, 0.01 Lot#10234

Method : SIM-LVI_231211_sv128.M
Operator : SV128:dv
Instrument : SV128
Quant Date : 12/15/2023 2:46 pm

Compound #2: 2-Fluorophenol



Original Peak Response = 7



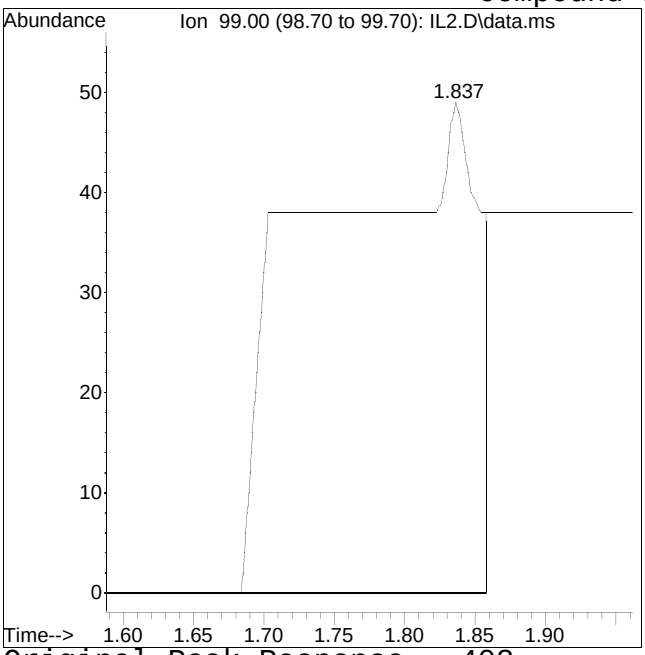
Manual Peak Response = 7 M7

M7 = A qualifier ion was manually integrated (only for GC/MS data).

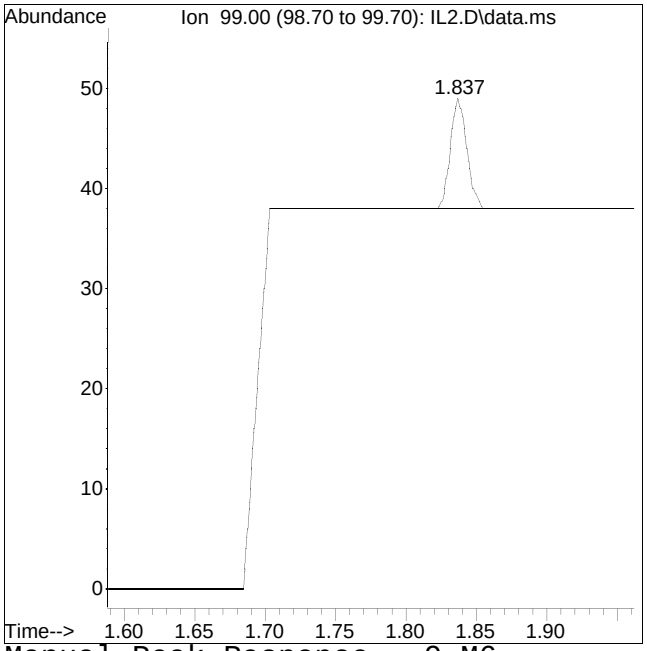
Manual Integration Report

Data Path : I:\8270SIM\SV128\231211LVIQMethod : SIM-LVI_231211_sv128.M
Data File : IL2.D Operator : SV128:dv
Date Inj'd : 12/11/2023 3:40 pm Instrument : SV128
Sample : IL2,32,, 0.01 Lot#10234 Quant Date : 12/15/2023 2:46 pm

Compound #3: Phenol-d6



Original Peak Response = 403



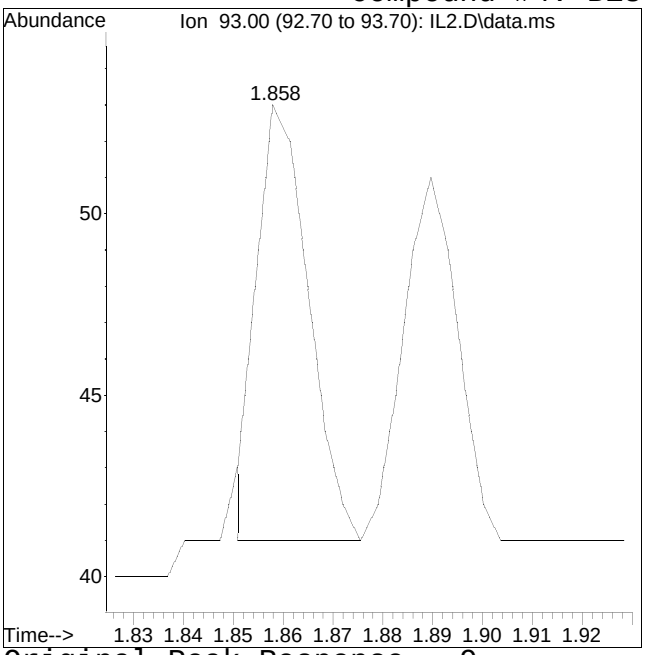
Manual Peak Response = 9 M6

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

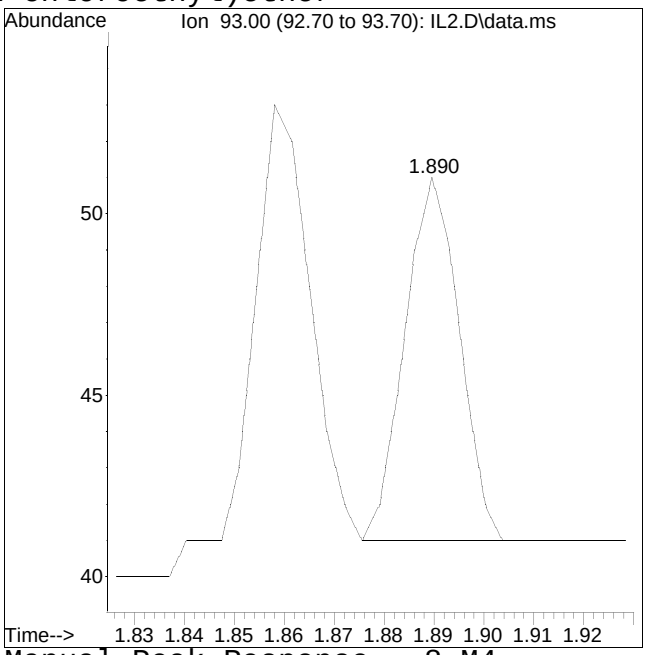
Manual Integration Report

Data Path : I:\8270SIM\SV128\231211LVIQMethod : SIM-LVI_231211_sv128.M
Data File : IL2.D Operator : SV128:dv
Date Inj'd : 12/11/2023 3:40 pm Instrument : SV128
Sample : IL2,32,, 0.01 Lot#10234 Quant Date : 12/15/2023 2:46 pm

Compound #4: Bis(2-chloroethyl)ether



Original Peak Response = 9



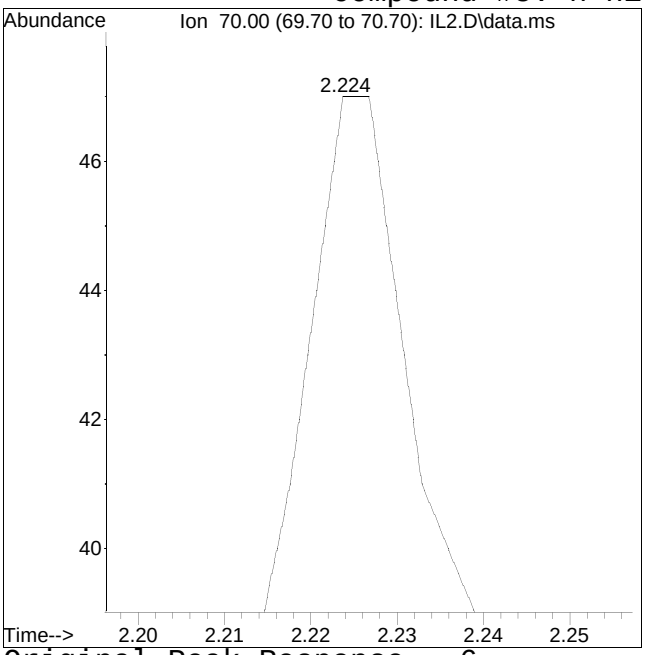
Manual Peak Response = 8 M4

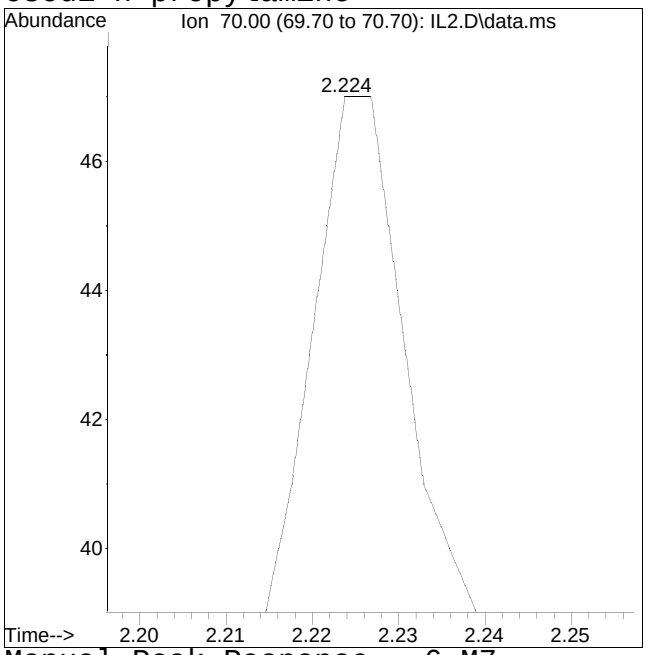
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\8270SIM\SV128\231211LVIQMethod : SIM-LVI_231211_sv128.M
Data File : IL2.D Operator : SV128:dv
Date Inj'd : 12/11/2023 3:40 pm Instrument : SV128
Sample : IL2,32,, 0.01 Lot#10234 Quant Date : 12/15/2023 2:46 pm

Compound #5: n-nitrosodi-n-propylamine



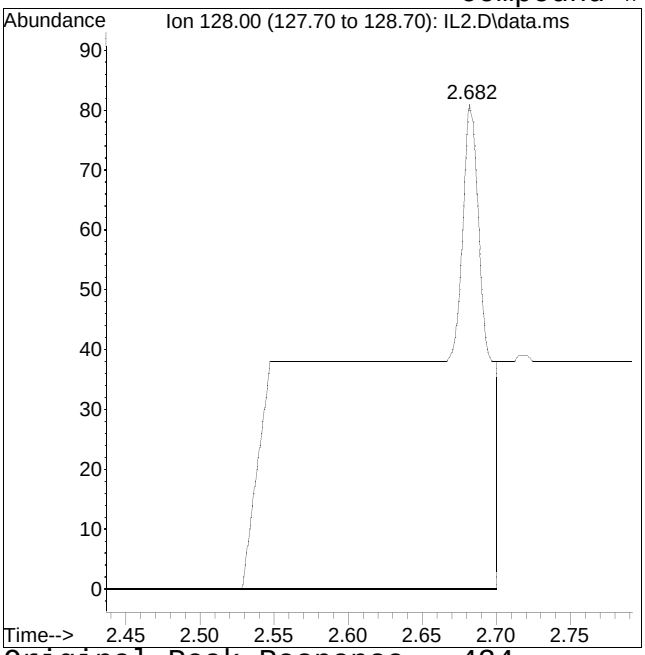


Original Peak Response = 6 Manual Peak Response = 6 M7
M7 = A qualifier ion was manually integrated (only for GC/MS data).

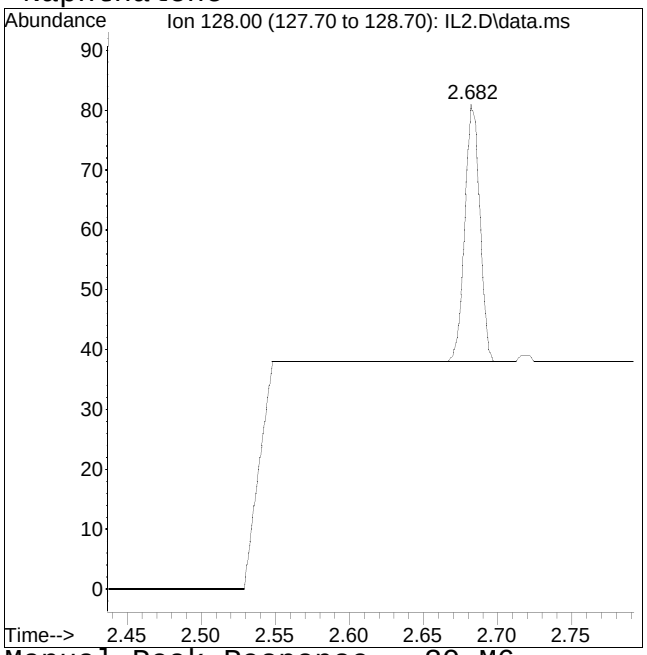
Manual Integration Report

Data Path : I:\8270SIM\SV128\231211LVIQMethod : SIM-LVI_231211_sv128.M
Data File : IL2.D Operator : SV128:dv
Date Inj'd : 12/11/2023 3:40 pm Instrument : SV128
Sample : IL2,32,, 0.01 Lot#10234 Quant Date : 12/15/2023 2:46 pm

Compound #9: Naphthalene



Original Peak Response = 424



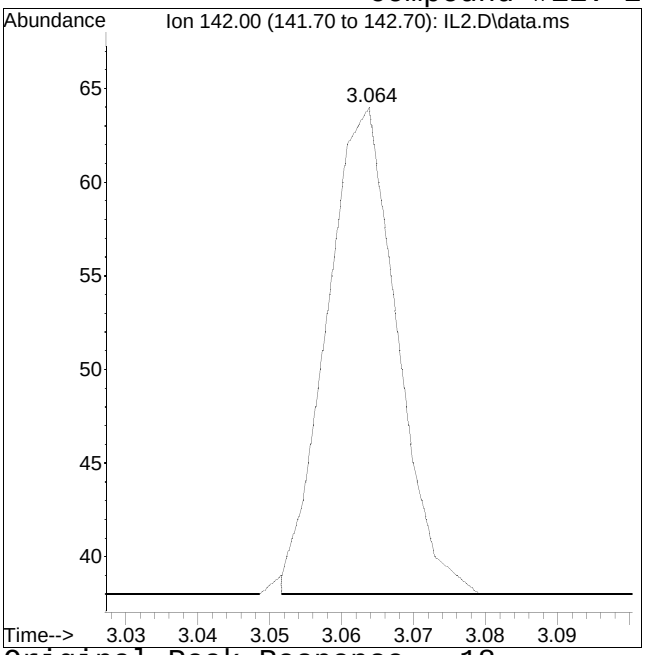
Manual Peak Response = 30 M6

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

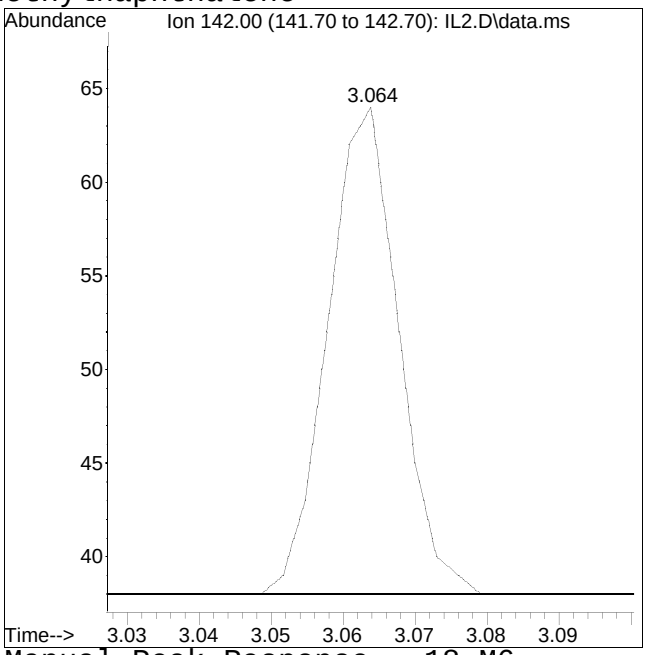
Manual Integration Report

Data Path : I:\8270SIM\SV128\231211LVIQMethod : SIM-LVI_231211_sv128.M
Data File : IL2.D Operator : SV128:dv
Date Inj'd : 12/11/2023 3:40 pm Instrument : SV128
Sample : IL2,32,, 0.01 Lot#10234 Quant Date : 12/15/2023 2:46 pm

Compound #11: 2-Methylnaphthalene



Original Peak Response = 18



Manual Peak Response = 18 M6

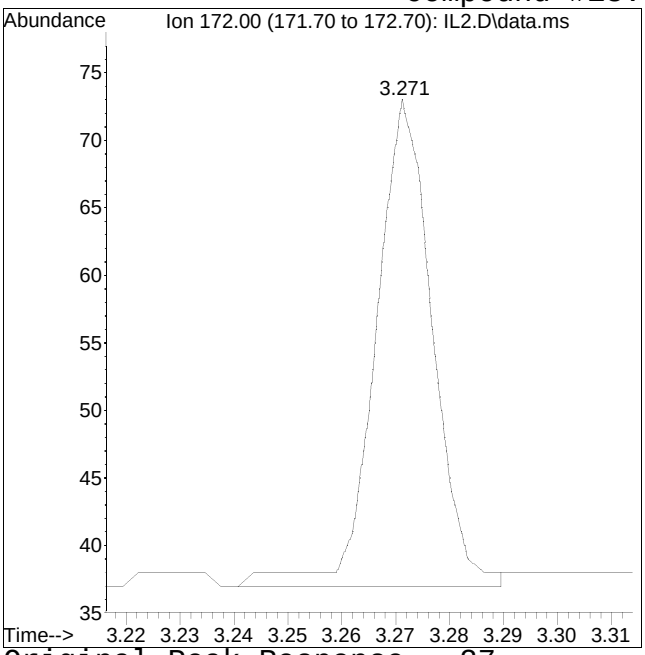
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

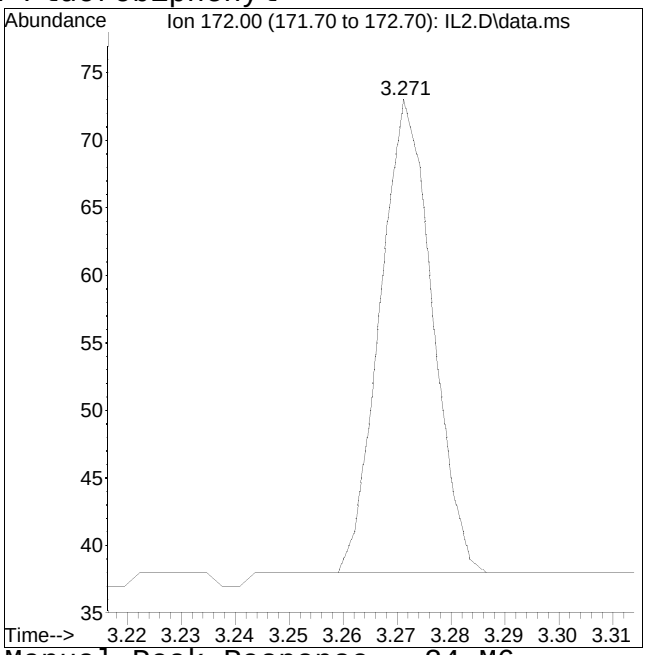
Data Path : I:\8270SIM\SV128\231211LVIQ
Data File : IL2.D
Date Inj'd : 12/11/2023 3:40 pm
Sample : IL2,32,, 0.01 Lot#10234

Method : SIM-LVI_231211_sv128.M
Operator : SV128:dv
Instrument : SV128
Quant Date : 12/15/2023 2:46 pm

Compound #13: 2-Fluorobiphenyl



Original Peak Response = 27



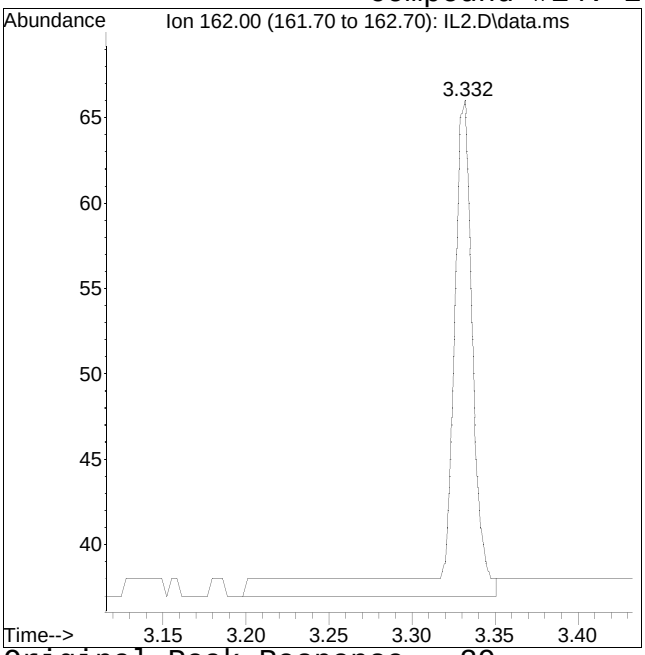
Manual Peak Response = 24 M6

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

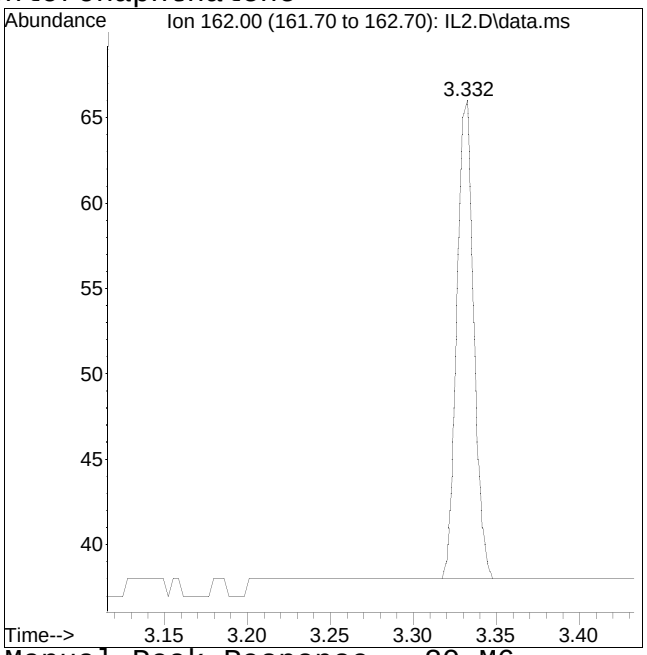
Manual Integration Report

Data Path : I:\8270SIM\SV128\231211LVIQMethod : SIM-LVI_231211_sv128.M
Data File : IL2.D Operator : SV128:dv
Date Inj'd : 12/11/2023 3:40 pm Instrument : SV128
Sample : IL2,32,, 0.01 Lot#10234 Quant Date : 12/15/2023 2:46 pm

Compound #14: 2-Chloronaphthalene



Original Peak Response = 29



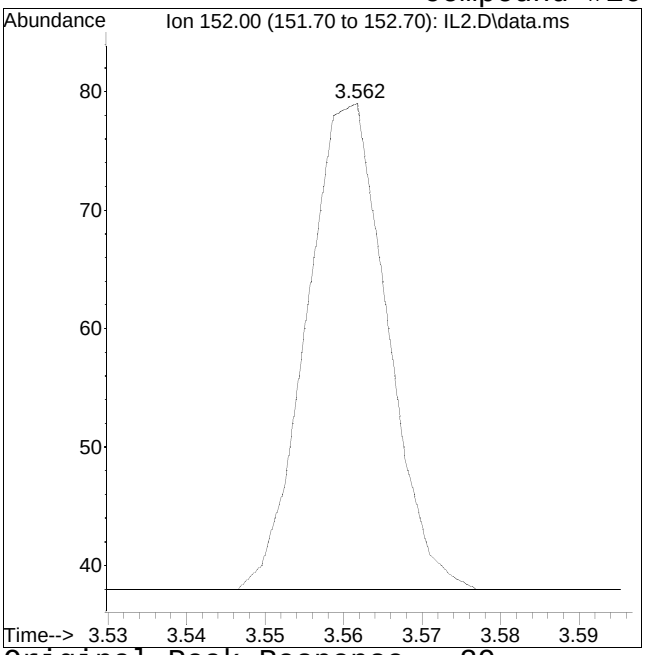
Manual Peak Response = 20 M6

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

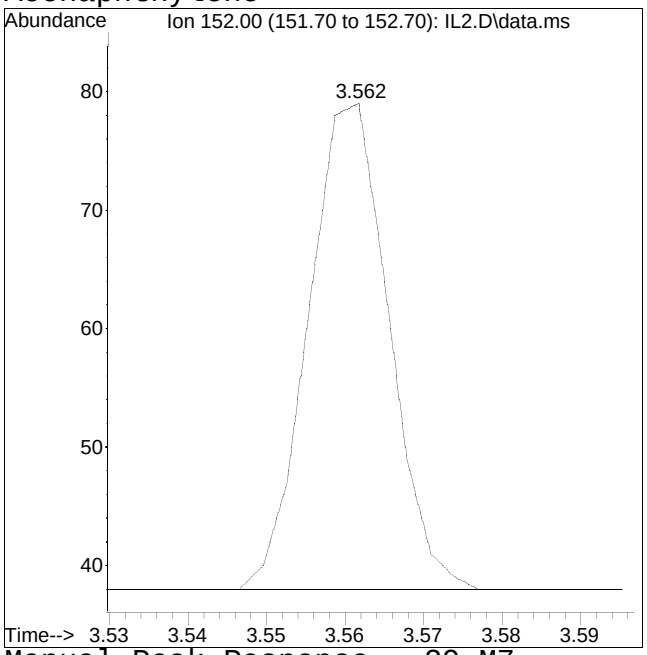
Manual Integration Report

Data Path : I:\8270SIM\SV128\231211LVIQMethod : SIM-LVI_231211_sv128.M
Data File : IL2.D Operator : SV128:dv
Date Inj'd : 12/11/2023 3:40 pm Instrument : SV128
Sample : IL2,32,, 0.01 Lot#10234 Quant Date : 12/15/2023 2:46 pm

Compound #16: Acenaphthylene



Original Peak Response = 29



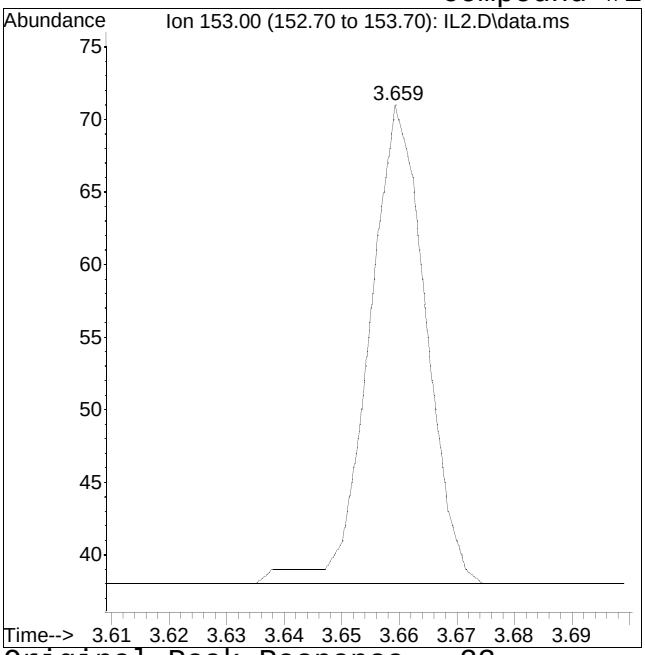
Manual Peak Response = 29 M7

M7 = A qualifier ion was manually integrated (only for GC/MS data).

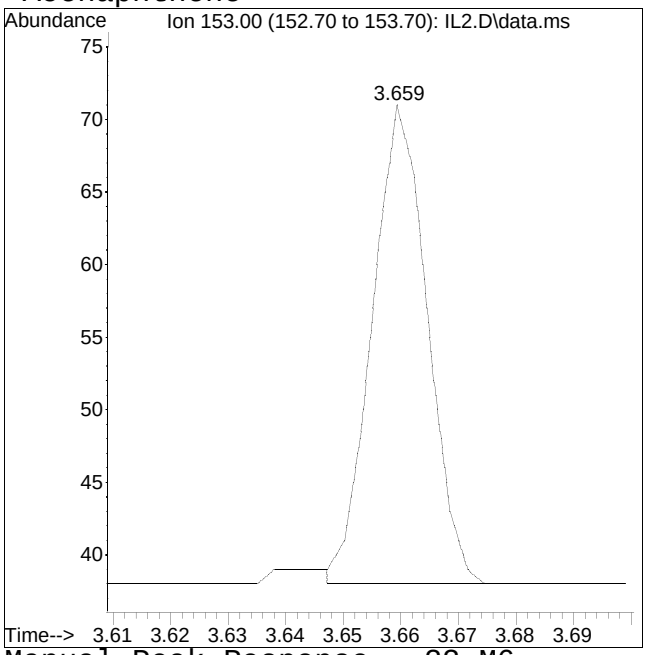
Manual Integration Report

Data Path : I:\8270SIM\SV128\231211LVIQMethod : SIM-LVI_231211_sv128.M
Data File : IL2.D Operator : SV128:dv
Date Inj'd : 12/11/2023 3:40 pm Instrument : SV128
Sample : IL2,32,, 0.01 Lot#10234 Quant Date : 12/15/2023 2:46 pm

Compound #18: Acenaphthene



Original Peak Response = 23



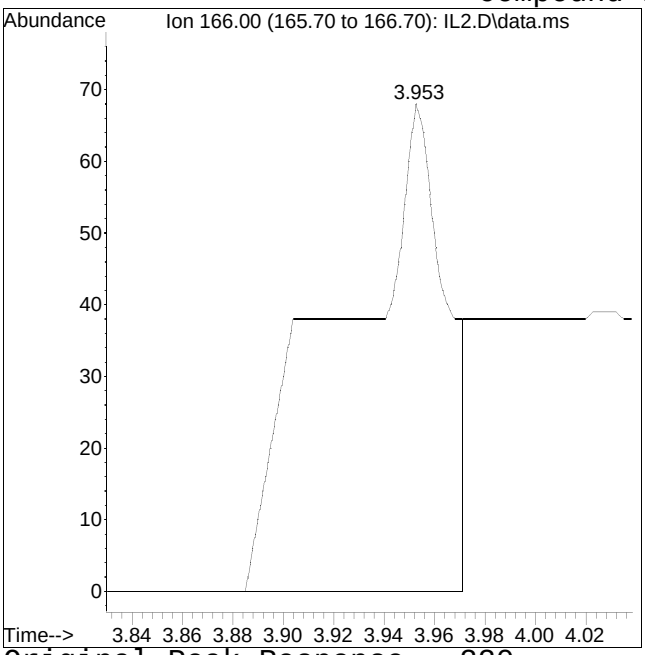
Manual Peak Response = 22 M6

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

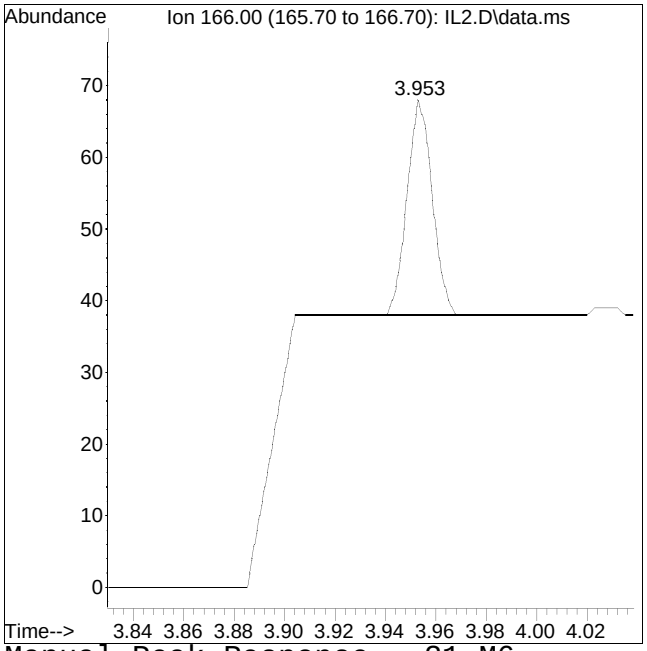
Manual Integration Report

Data Path : I:\8270SIM\SV128\231211LVIQMethod : SIM-LVI_231211_sv128.M
Data File : IL2.D Operator : SV128:dv
Date Inj'd : 12/11/2023 3:40 pm Instrument : SV128
Sample : IL2,32,, 0.01 Lot#10234 Quant Date : 12/15/2023 2:46 pm

Compound #20: Fluorene



Original Peak Response = 220



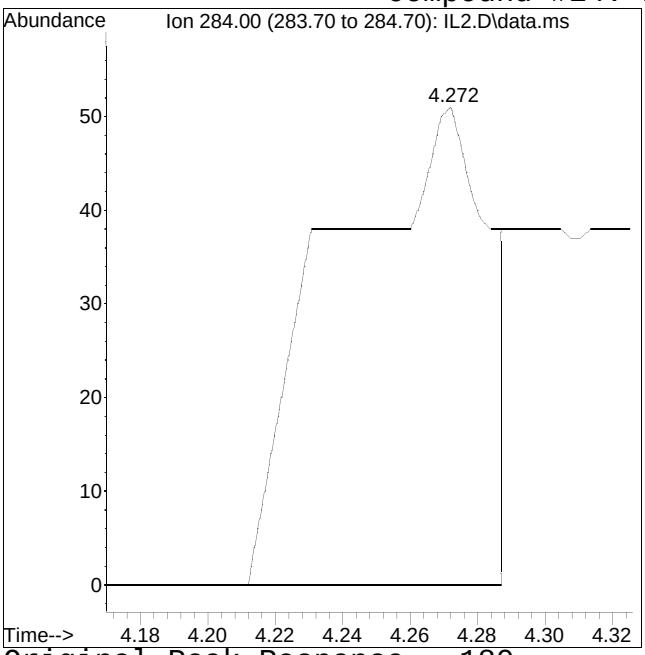
Manual Peak Response = 21 M6

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

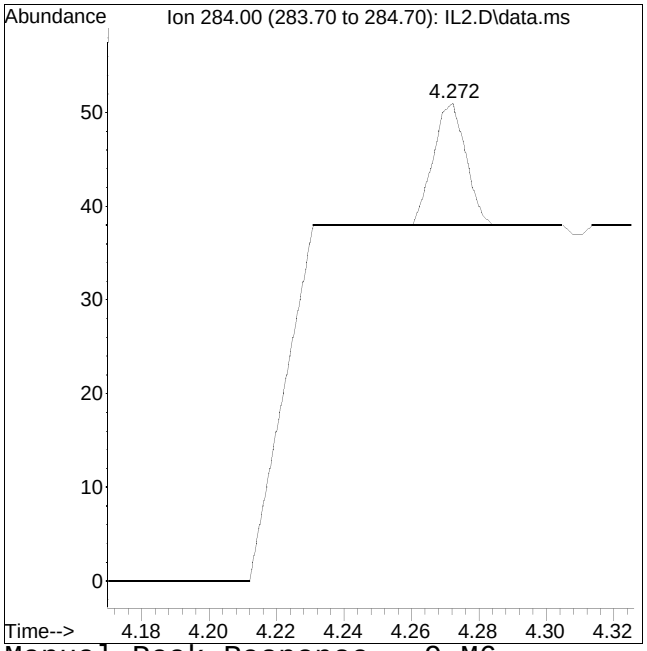
Manual Integration Report

Data Path : I:\8270SIM\SV128\231211LVIQMethod : SIM-LVI_231211_sv128.M
Data File : IL2.D Operator : SV128:dv
Date Inj'd : 12/11/2023 3:40 pm Instrument : SV128
Sample : IL2,32,, 0.01 Lot#10234 Quant Date : 12/15/2023 2:46 pm

Compound #24: Hexachlorobenzene



Original Peak Response = 180



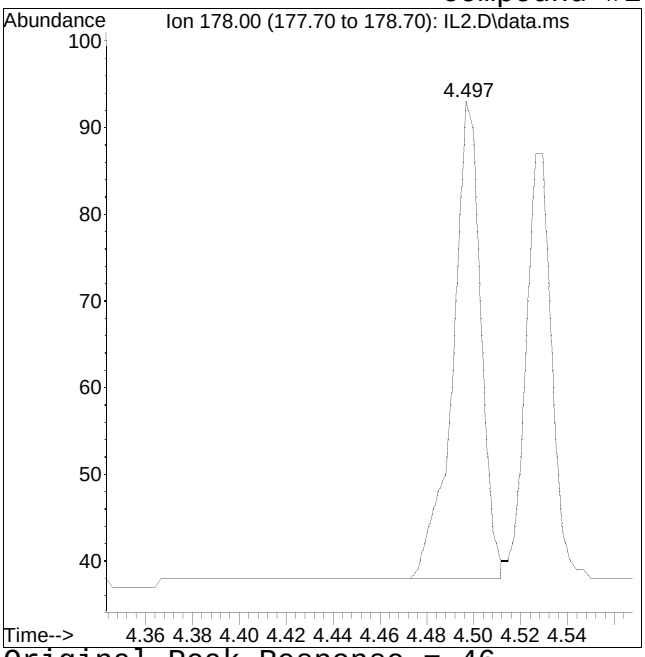
Manual Peak Response = 9 M6

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

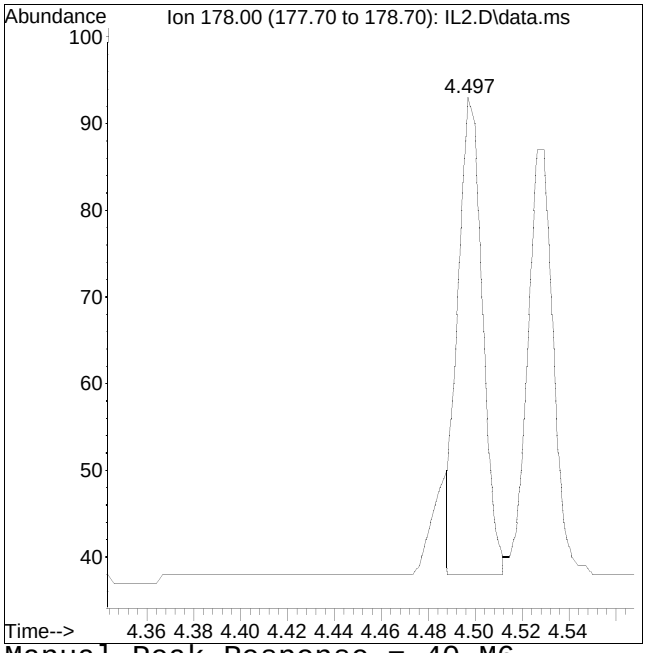
Manual Integration Report

Data Path : I:\8270SIM\SV128\231211LVIQMethod : SIM-LVI_231211_sv128.M
Data File : IL2.D Operator : SV128:dv
Date Inj'd : 12/11/2023 3:40 pm Instrument : SV128
Sample : IL2,32,, 0.01 Lot#10234 Quant Date : 12/15/2023 2:46 pm

Compound #26: Phenanthrene



Original Peak Response = 46



Manual Peak Response = 40 M6

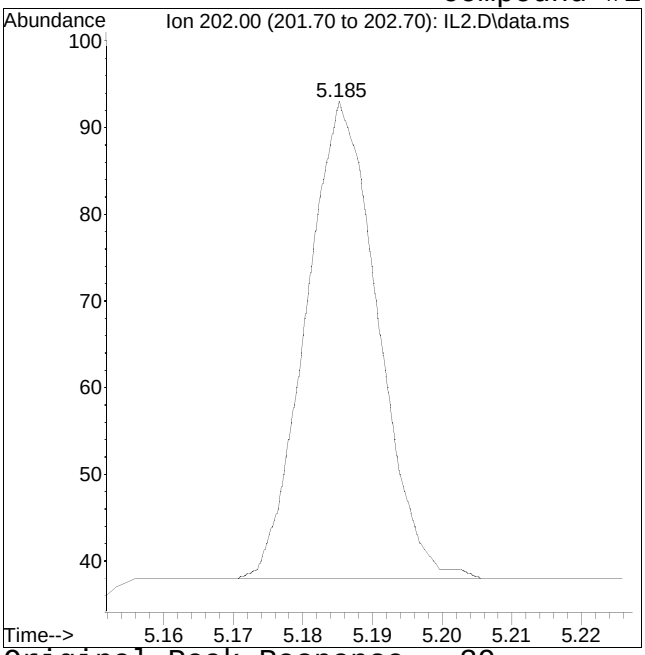
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

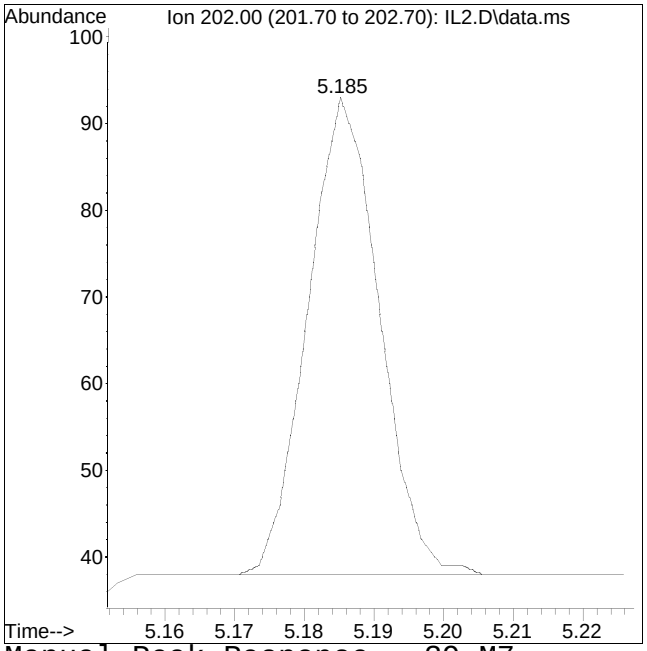
Data Path : I:\8270SIM\SV128\231211LVIQ
Data File : IL2.D
Date Inj'd : 12/11/2023 3:40 pm
Sample : IL2,32,, 0.01 Lot#10234

Method : SIM-LVI_231211_sv128.M
Operator : SV128:dv
Instrument : SV128
Quant Date : 12/15/2023 2:46 pm

Compound #28: Fluoranthene



Original Peak Response = 39



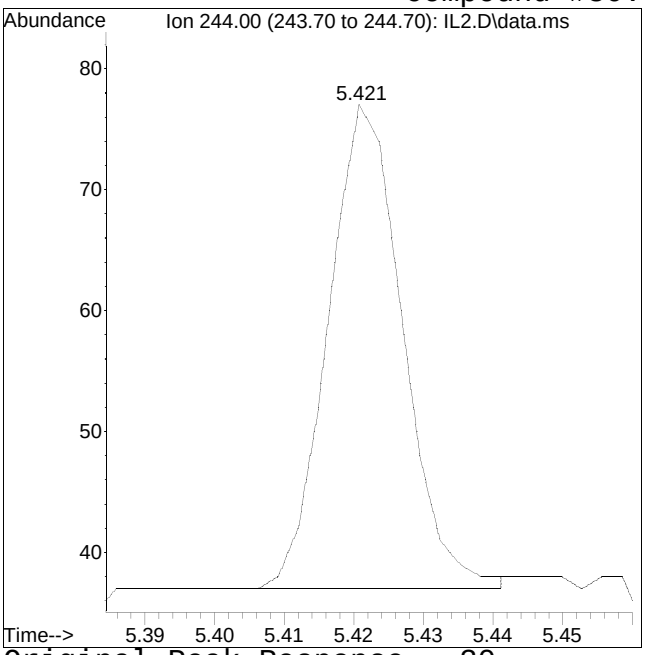
Manual Peak Response = 39 M7

M7 = A qualifier ion was manually integrated (only for GC/MS data).

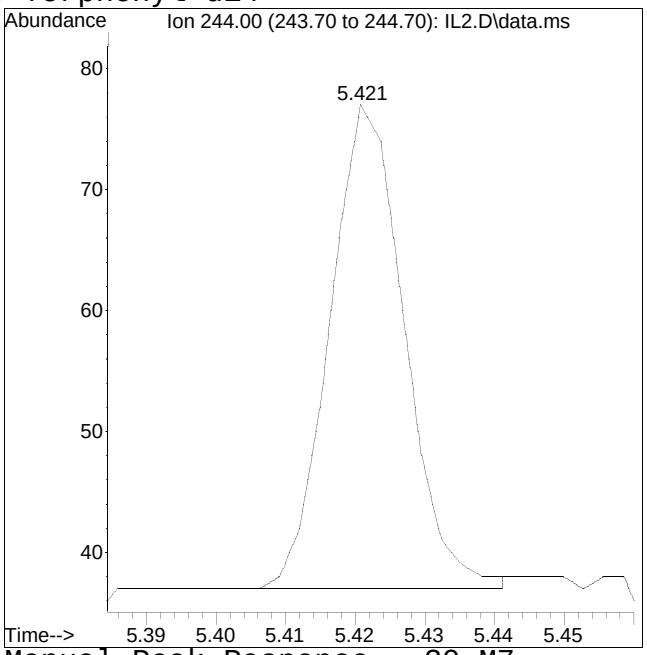
Manual Integration Report

Data Path : I:\8270SIM\SV128\231211LVIQMethod : SIM-LVI_231211_sv128.M
Data File : IL2.D Operator : SV128:dv
Date Inj'd : 12/11/2023 3:40 pm Instrument : SV128
Sample : IL2,32,, 0.01 Lot#10234 Quant Date : 12/15/2023 2:46 pm

Compound #30: 4-Terphenyl-d14



Original Peak Response = 30



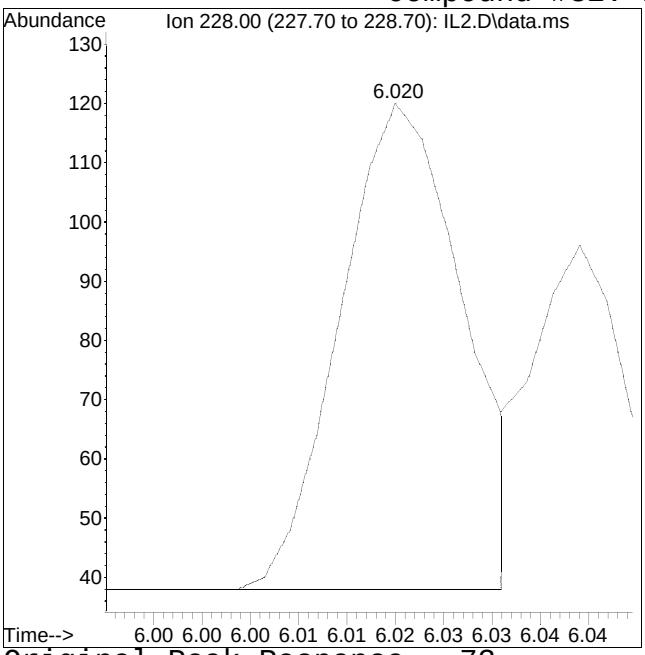
Manual Peak Response = 30 M7

M7 = A qualifier ion was manually integrated (only for GC/MS data).

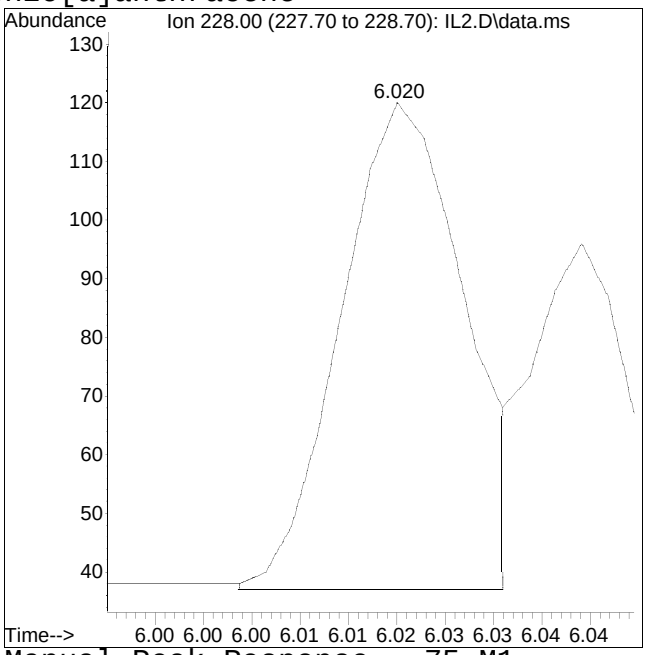
Manual Integration Report

Data Path : I:\8270SIM\SV128\231211LVIQMethod : SIM-LVI_231211_sv128.M
Data File : IL2.D Operator : SV128:dv
Date Inj'd : 12/11/2023 3:40 pm Instrument : SV128
Sample : IL2,32,, 0.01 Lot#10234 Quant Date : 12/15/2023 2:46 pm

Compound #32: Benzo[a]anthracene



Original Peak Response = 73



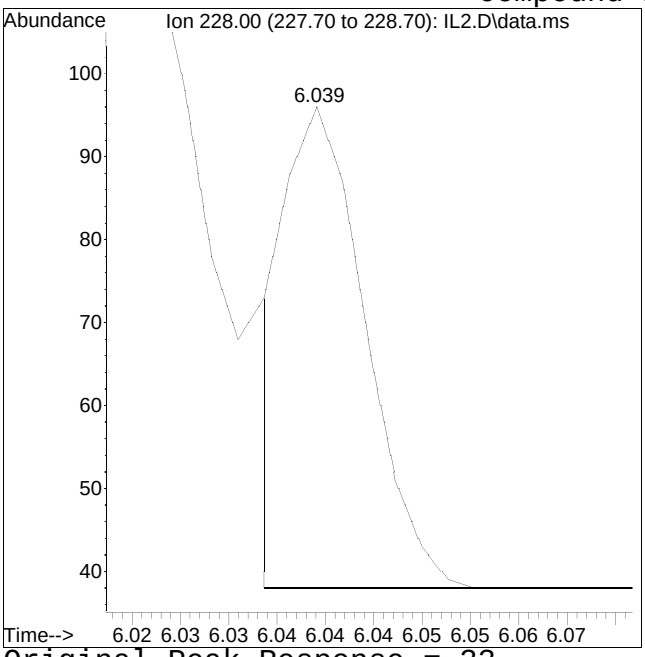
Manual Peak Response = 75 M1

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

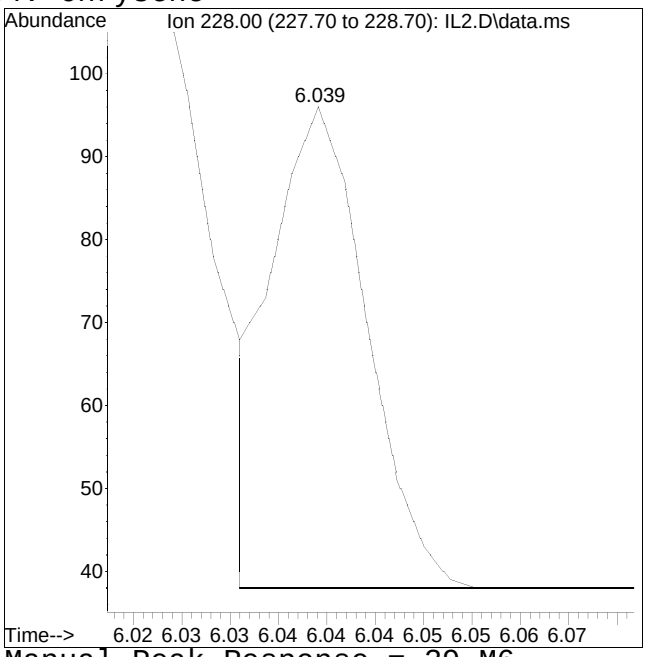
Manual Integration Report

Data Path : I:\8270SIM\SV128\231211LVIQMethod : SIM-LVI_231211_sv128.M
Data File : IL2.D Operator : SV128:dv
Date Inj'd : 12/11/2023 3:40 pm Instrument : SV128
Sample : IL2,32,, 0.01 Lot#10234 Quant Date : 12/15/2023 2:46 pm

Compound #34: Chrysene



Original Peak Response = 33



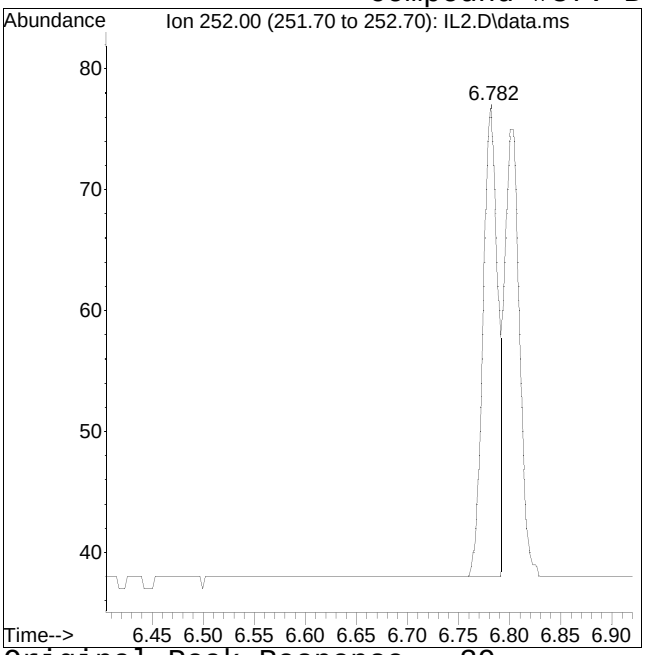
Manual Peak Response = 39 M6

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

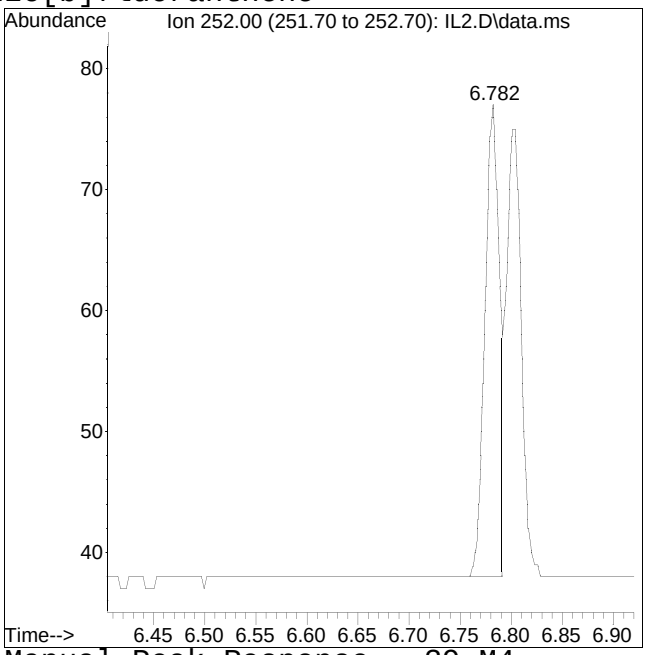
Manual Integration Report

Data Path : I:\8270SIM\SV128\231211LVIQMethod : SIM-LVI_231211_sv128.M
Data File : IL2.D Operator : SV128:dv
Date Inj'd : 12/11/2023 3:40 pm Instrument : SV128
Sample : IL2,32,, 0.01 Lot#10234 Quant Date : 12/15/2023 2:46 pm

Compound #37: Benzo[b]fluoranthene



Original Peak Response = 39



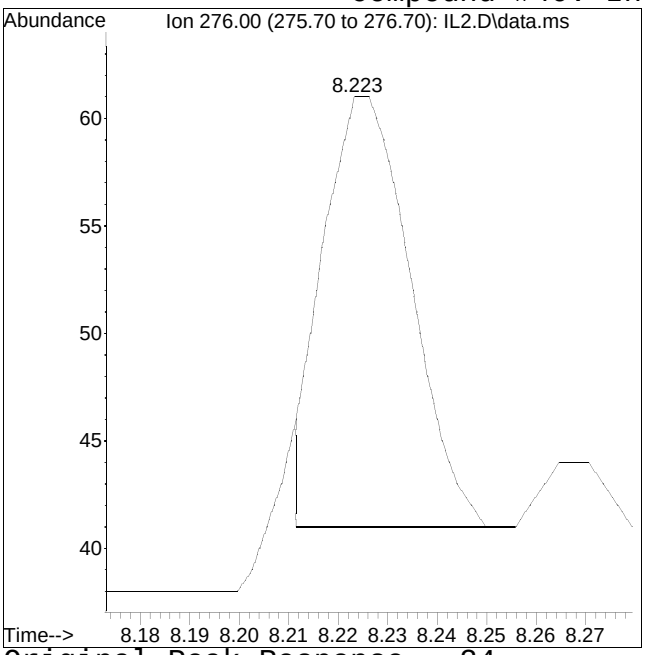
Manual Peak Response = 39 M4

M4 = Poor automated baseline construction.

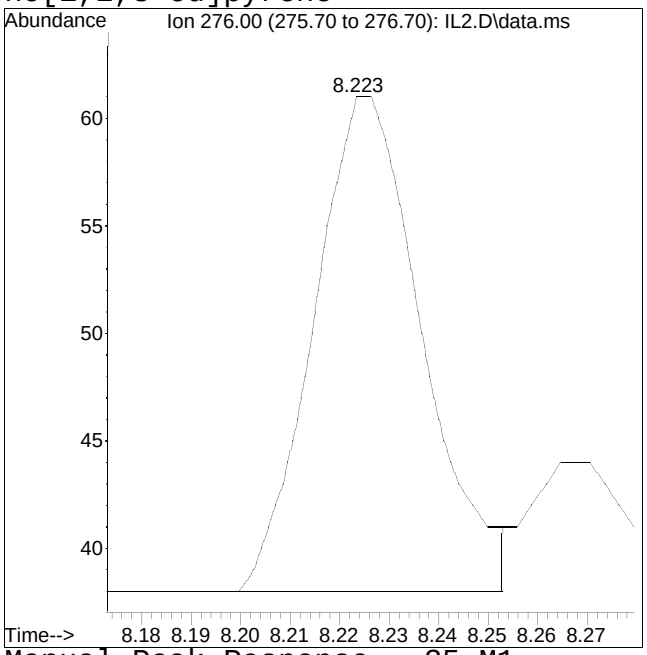
Manual Integration Report

Data Path : I:\8270SIM\SV128\231211LVIQMethod : SIM-LVI_231211_sv128.M
Data File : IL2.D Operator : SV128:dv
Date Inj'd : 12/11/2023 3:40 pm Instrument : SV128
Sample : IL2,32,, 0.01 Lot#10234 Quant Date : 12/15/2023 2:46 pm

Compound #40: Indeno[1,2,3-cd]pyrene



Original Peak Response = 24



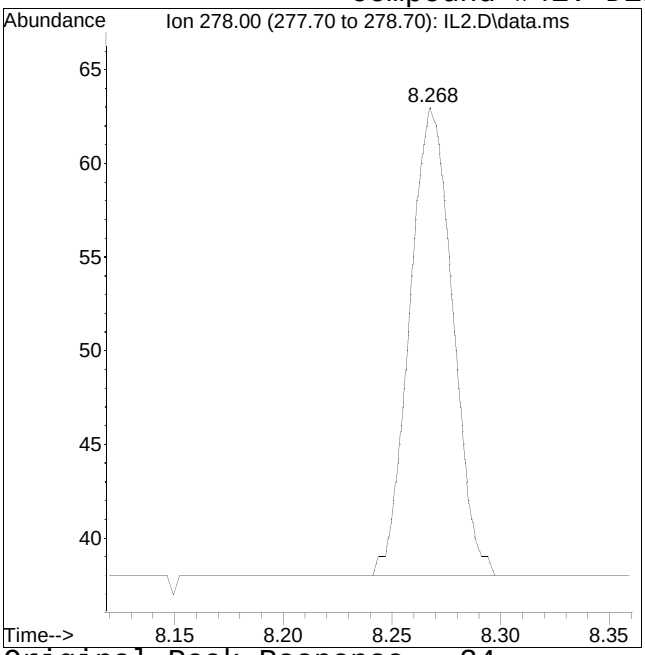
Manual Peak Response = 35 M1

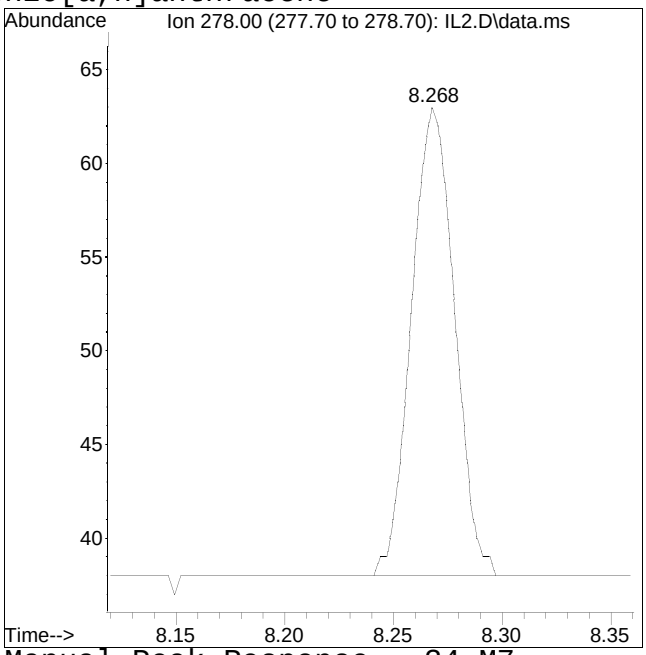
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

Data Path : I:\8270SIM\SV128\231211LVIQMethod : SIM-LVI_231211_sv128.M
Data File : IL2.D Operator : SV128:dv
Date Inj'd : 12/11/2023 3:40 pm Instrument : SV128
Sample : IL2,32,, 0.01 Lot#10234 Quant Date : 12/15/2023 2:46 pm

Compound #41: Dibenzo[a,h]anthracene



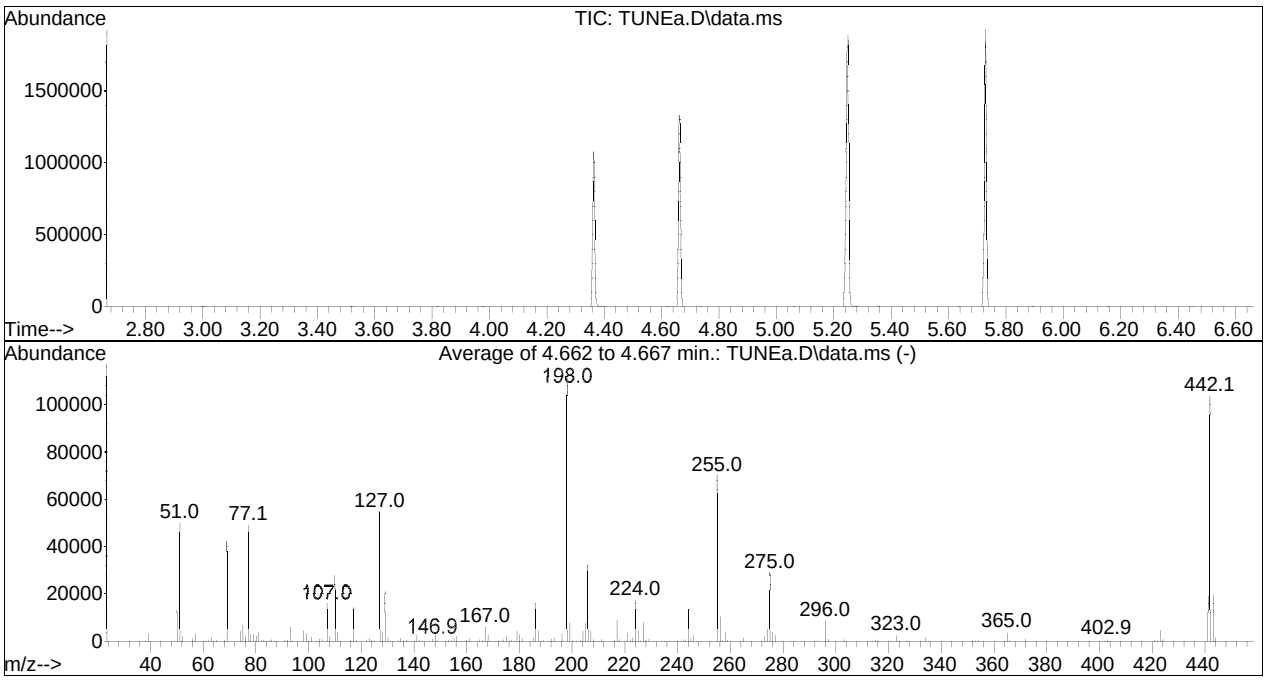


Original Peak Response = 34 Manual Peak Response = 34 M7
M7 = A qualifier ion was manually integrated (only for GC/MS data).

Data Path : I:\8270SIM\SV128\231211LVIical\
Data File : TUNEa.D
Acq On : 13 Dec 2023 06:43 am
Operator : SV128:dv
Sample : TUNEa
Misc : WG1864557,,ical
ALS Vial : 48 Sample Multiplier: 1

Integration File: rteint.p

Method : I:\8270SIM\SV128\231211LVIical\SIM-LVI_231211_sv128.M
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Fri Dec 15 14:46:27 2023



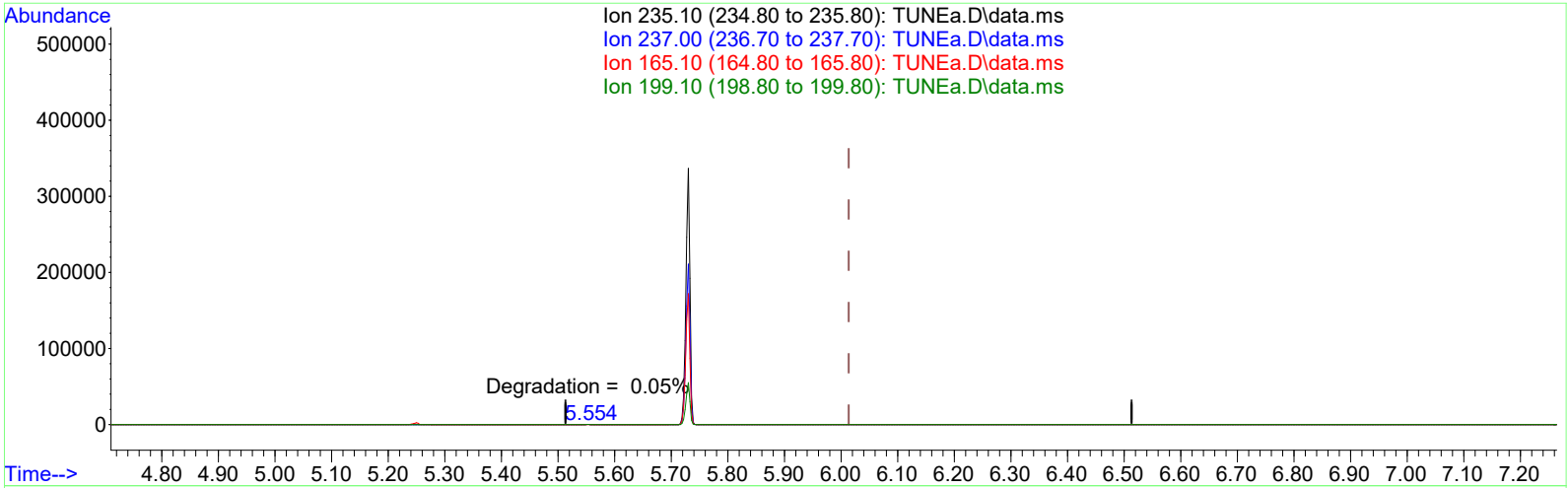
Spectrum Information: Average of 4.662 to 4.667 min.

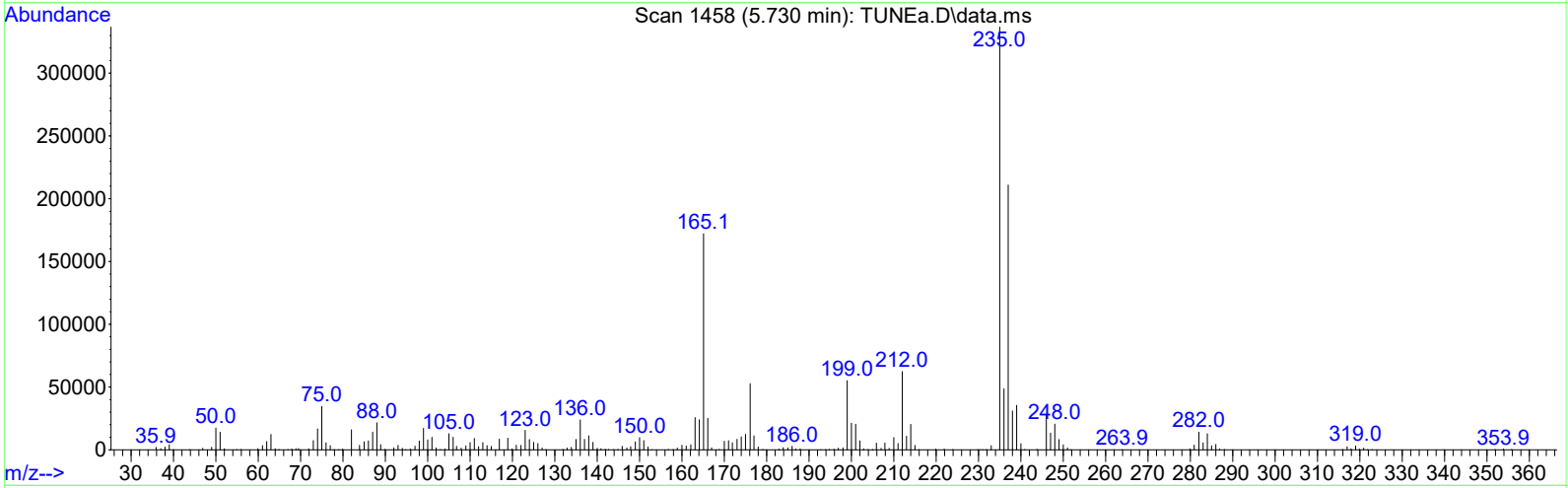
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	44.9	49992	PASS
68	69	0.00	2	1.6	697	PASS
69	69	100	100	100.0	42256	PASS
70	69	0.00	2	0.3	135	PASS
127	198	10	80	49.2	54872	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	111429	PASS
199	198	5	9	7.0	7820	PASS
275	198	10	60	26.1	29043	PASS
365	198	1	100	3.4	3734	PASS
441	442	0.01	24	18.3	18990	PASS
442	198	50	100	93.0	103651	PASS
443	442	15	24	18.7	19420	PASS

Quantitation Report (Qedit)

Data Path : I:\8270SIM\SV128\231211LVIical\
Data File : TUNEa.D
Acq On : 13 Dec 2023 06:43 am
Operator : SV128:dv
Sample : TUNEa
Misc : WG1864557,,ical
ALS Vial : 48 Sample Multiplier: 1

Quant Time: Dec 13 07:09:11 2023
Quant Method : I:\8270SIM\SV128\231211LVIical\dftppsv128.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Nov 10 08:59:52 2023
Response via : Continuing Cal File: C:\ENVDEMO\BNADATA\DLWB002.D





TIC: TUNEa.D\data.ms

(6) ddt (T)

5.730min (-0.284) 27.15

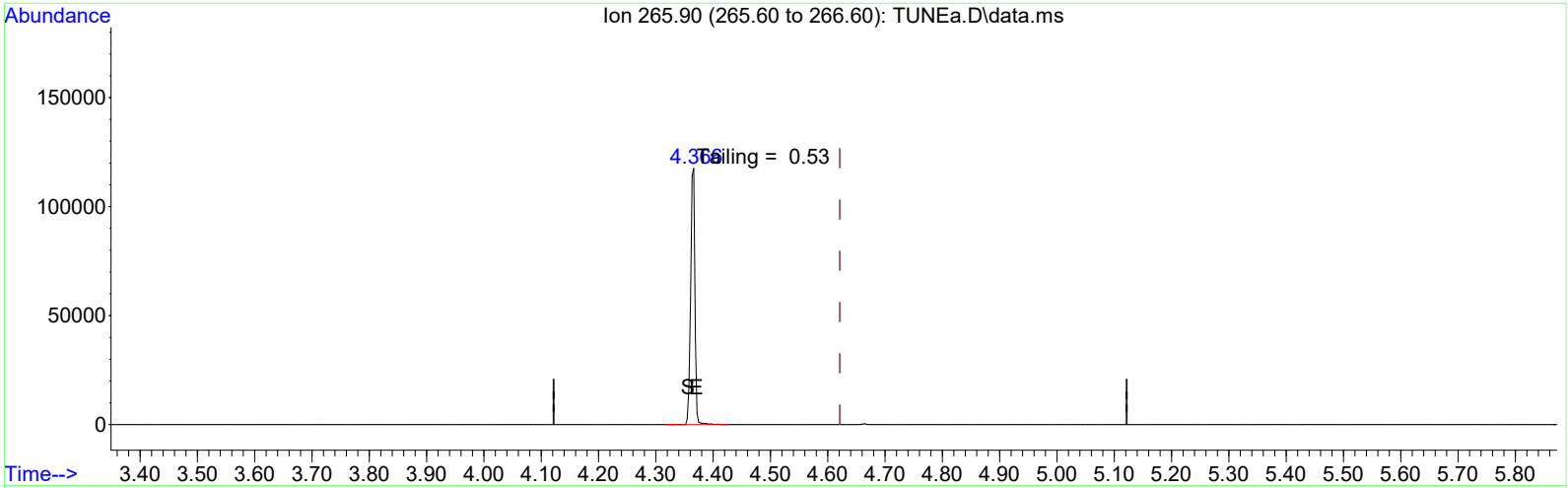
response 165502

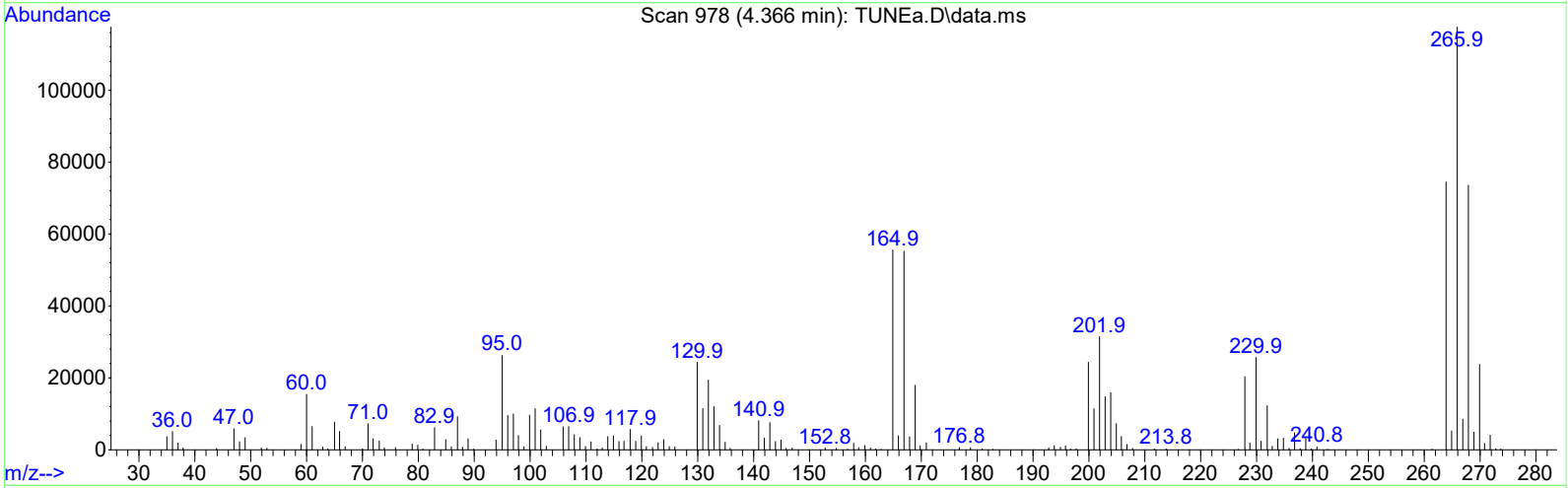
Ion	Exp%	Act%
235.10	100.00	100.00
237.00	65.60	63.83
165.10	53.30	52.31
199.10	17.10	16.53

Quantitation Report (Qedit)

Data Path : I:\8270SIM\SV128\231211LVIical\
Data File : TUNEa.D
Acq On : 13 Dec 2023 06:43 am
Operator : SV128:dv
Sample : TUNEa
Misc : WG1864557,,ical
ALS Vial : 48 Sample Multiplier: 1

Quant Time: Dec 13 07:09:11 2023
Quant Method : I:\8270SIM\SV128\231211LVIical\dftppsv128.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Nov 10 08:59:52 2023
Response via : Continuing Cal File: C:\ENVDEMO\BNADATA\DLWB002.D





TIC: TUNEa.D\data.ms

(1) pentachlorophenol (T)

4.366min (-0.256) 29.13

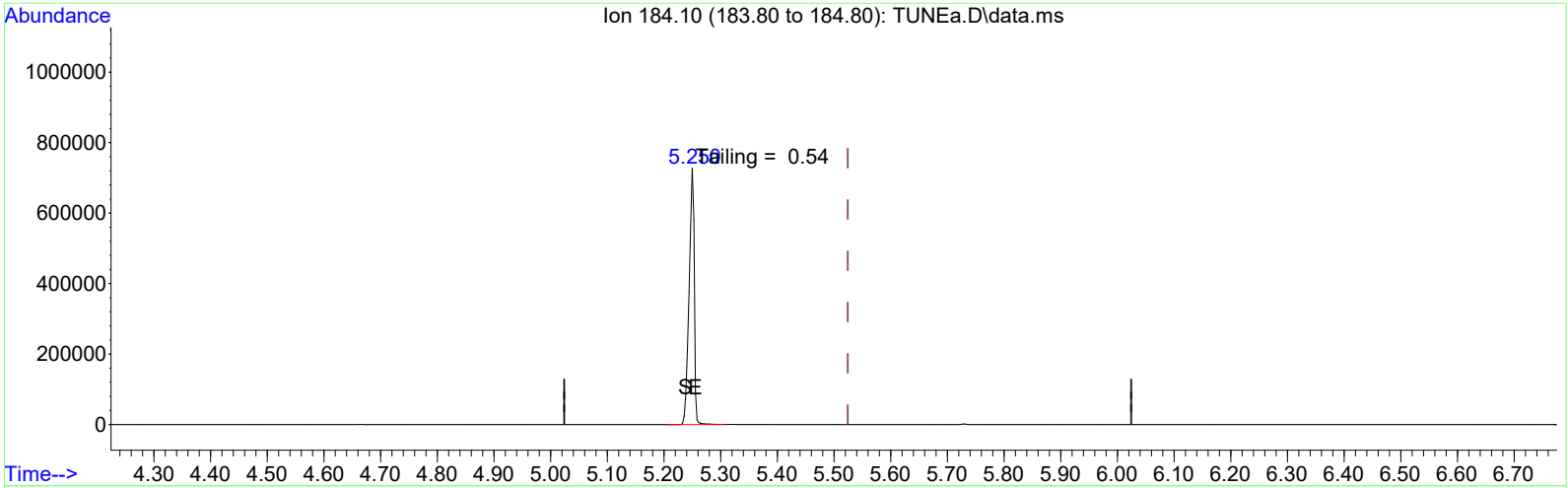
response 61186

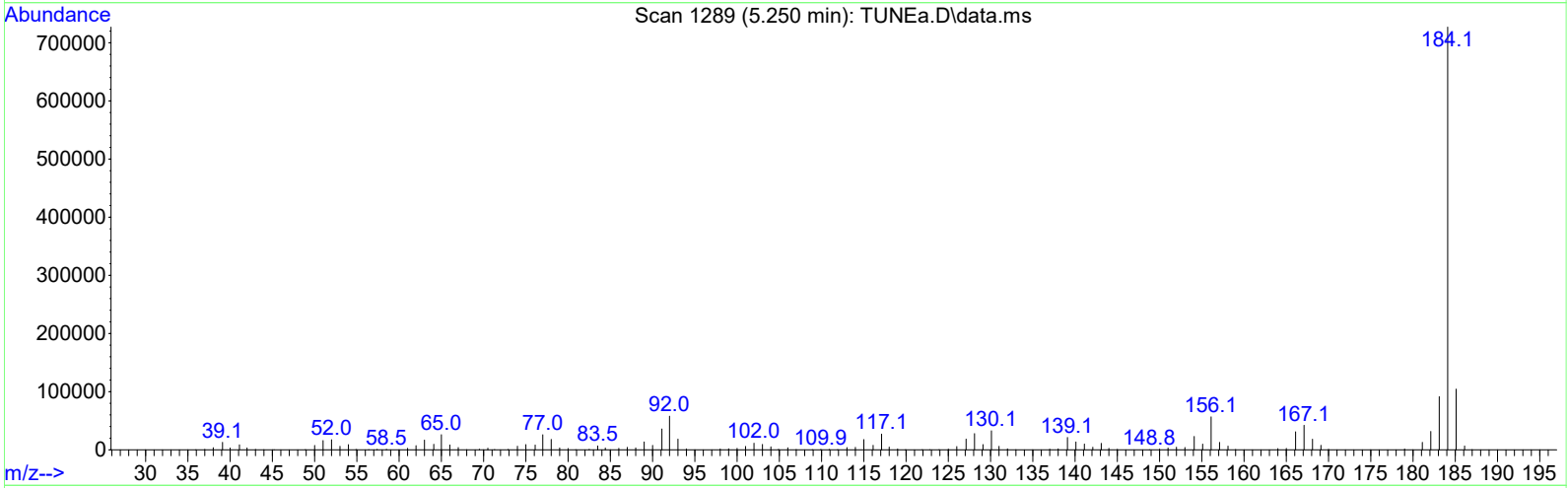
Ion	Exp%	Act%
265.90	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\8270SIM\SV128\231211LVIical\
Data File : TUNEa.D
Acq On : 13 Dec 2023 06:43 am
Operator : SV128:dv
Sample : TUNEa
Misc : WG1864557,,ical
ALS Vial : 48 Sample Multiplier: 1

Quant Time: Dec 13 07:09:11 2023
Quant Method : I:\8270SIM\SV128\231211LVIical\dftppsv128.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Nov 10 08:59:52 2023
Response via : Continuing Cal File: C:\ENVDEMO\BNADATA\DLWB002.D





TIC: TUNEa.D\data.ms

(3) benzidine (T)

5.250min (-0.275) 45.33

response 461477

Ion	Exp%	Act%
184.10	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV128\231211LVIical\
Data File : IL1a.D
Acq On : 13 Dec 2023 07:14 am
Operator : SV128:dv
Sample : IL1,32,, 0.005 Lot#10235
Misc : WG1864557,,ical
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Dec 15 14:18:03 2023
Quant Method : I:\8270SIM\SV128\231211LVIical\SIM-LVI_231211_sv128.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Dec 15 13:42:32 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\SV128\231211LVIical\IL7.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.007	152	3658	4000.000	ng/ml	0.00
Standard Area 1 = 2982			Recovery = 122.67%			
8) Naphthalene-d8	2.669	136	12572	4000.000	ng/ml	0.00
Standard Area 1 = 10566			Recovery = 118.99%			
17) Acenaphthene-d10	3.650	164	7113	4000.000	ng/ml	0.00
Standard Area 1 = 6070			Recovery = 117.18%			
22) Phenanthrene-d10	4.499	188	16727	4000.000	ng/ml	0.02
Standard Area 1 = 13526			Recovery = 123.67%			
31) Chrysene-d12	6.039	240	17171	4000.000	ng/ml	0.02
Standard Area 1 = 12766			Recovery = 134.51%			
36) Perylene-d12	7.131	264	18670	4000.000	ng/ml	0.03
Standard Area 1 = 15414			Recovery = 121.12%			
System Monitoring Compounds						
2) 2-Fluorophenol	0.000	112	0	0.000	ng/ml	
Spiked Amount 5000.000	Range 15 - 110		Recovery = 0.00%#			
3) Phenol-d6	0.000	99	0	0.000	ng/ml	
Spiked Amount 5000.000	Range 15 - 110		Recovery = 0.00%#			
7) Nitrobenzene-d5	0.000	82	0	0.000	ng/ml	
Spiked Amount 2500.000	Range 30 - 130		Recovery = 0.00%#			
13) 2-Fluorobiphenyl	0.000	172	0d	0.000	ng/ml	
Spiked Amount 2500.000	Range 30 - 130		Recovery = 0.00%#			
21) 2,4,6-Tribromophenol	0.000	330	0	0.000	ng/ml	
Spiked Amount 5000.000	Range 15 - 110		Recovery = 0.00%#			
30) 4-Terphenyl-d14	0.000	244	0d	0.000	ng/ml	
Spiked Amount 2500.000	Range 30 - 130		Recovery = 0.00%#			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	0.000		0	N.D.		
5) n-nitrosodi-n-propylamine	0.000		0	N.D.		
6) Hexachloroethane	0.000		0	N.D.		
9) Naphthalene	0.000		0	N.D.	d	
10) Hexachlorobutadiene	0.000		0	N.D.		
11) 2-Methylnaphthalene	0.000		0	N.D.	d	
12) 1-Methylnaphthalene	0.000		0	N.D.	d	
14) 2-Chloronaphthalene	0.000		0	N.D.	d	
15) 2,6-Dinitrotoluene	0.000		0	N.D.	d	
16) Acenaphthylene	0.000		0	N.D.	d	
18) Acenaphthene	0.000		0	N.D.	d	

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV128\231211LVIical\
Data File : IL1a.D
Acq On : 13 Dec 2023 07:14 am
Operator : SV128:dv
Sample : IL1,32,, 0.005 Lot#10235
Misc : WG1864557,,ical
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Dec 15 14:18:03 2023
Quant Method : I:\8270SIM\SV128\231211LVIical\SIM-LVI_231211_sv128.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Dec 15 13:42:32 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\SV128\231211LVIical\IL7.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
19) 2,4-Dinitrotoluene	0.000		0	N.D.		
20) Fluorene	0.000		0	N.D.	d	
23) 4,6-Dinitro-o-cresol	0.000		0	N.D.	d	
24) Hexachlorobenzene	4.284	284	6M2	5.438	ng/ml	
25) Pentachlorophenol	0.000		0	N.D.	d	
26) Phenanthrene	0.000		0	N.D.	d	
27) Anthracene	0.000		0	N.D.	d	
28) Fluoranthene	0.000		0	N.D.	d	
29) Pyrene	0.000		0	N.D.	d	
32) Benzo[a]anthracene	0.000		0	N.D.	d	
33) 3,3'-Dichlorobenzidine	0.000		0	N.D.	d	
34) Chrysene	0.000		0	N.D.	d	
35) Bis(2-ethylhexyl)phtha...	0.000		0	N.D.	d	
37) Benzo[b]fluoranthene	0.000		0	N.D.	d	
38) Benzo[k]fluoranthene	0.000		0	N.D.	d	
39) Benzo[a]pyrene	0.000		0	N.D.	d	
40) Indeno[1,2,3-cd]pyrene	0.000		0	N.D.		
41) Dibenzo[a,h]anthracene	0.000		0	N.D.	d	
42) Benzo[g,h,i]perylene	0.000		0	N.D.	d	

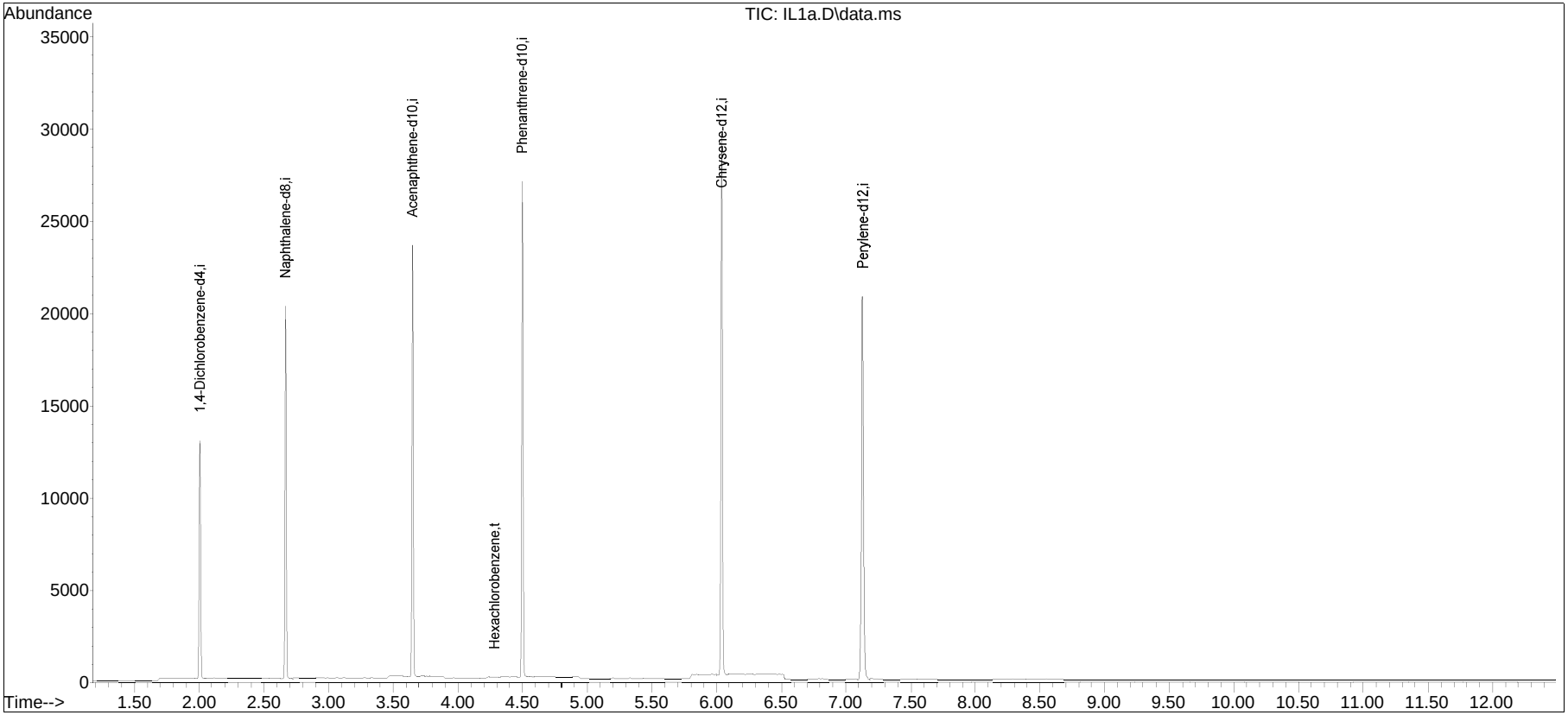
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV128\231211LVIical\
Data File : IL1a.D
Acq On : 13 Dec 2023 07:14 am
Operator : SV128:dv
Sample : IL1,32,, 0.005 Lot#10235
Misc : WG1864557,,ical
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Dec 15 14:18:03 2023
Quant Method : I:\8270SIM\SV128\231211LVIical\SIM-LVI_231211_sv128.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Dec 15 13:42:32 2023
Response via : Initial Calibration

Sub List : Default - All compounds listedical\IL7.D•

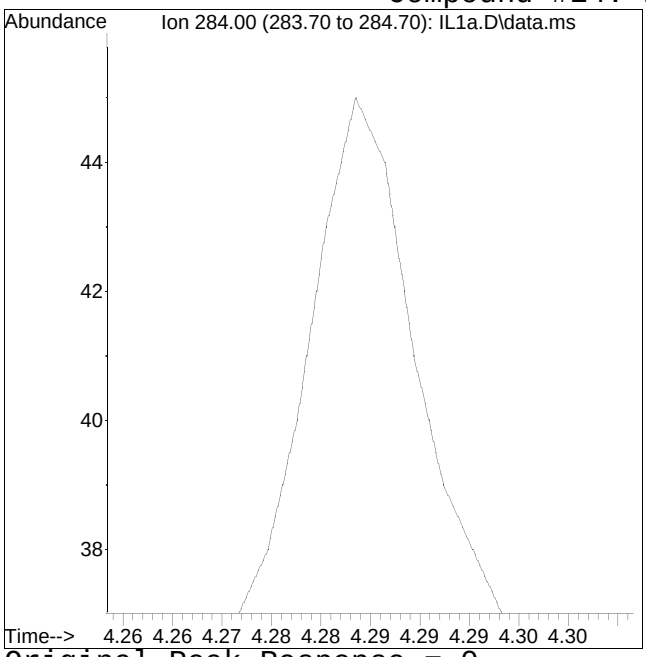


Manual Integration Report

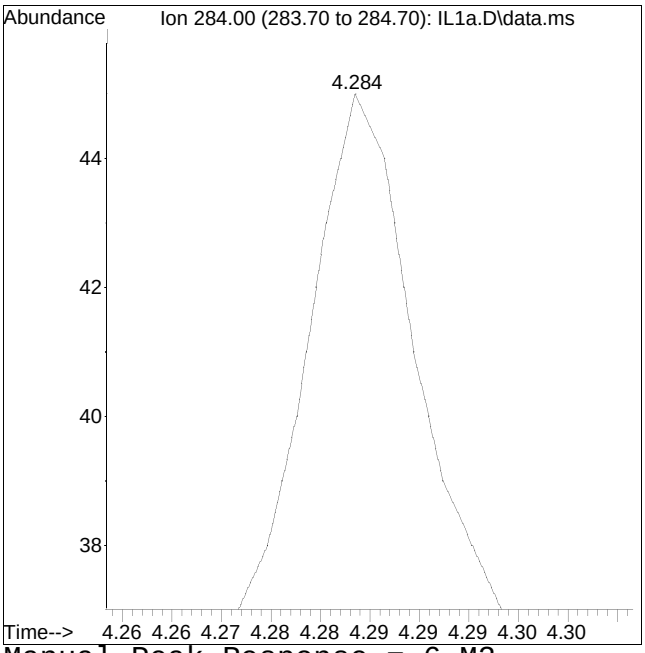
Data Path : I:\8270SIM\SV128\231211LVIQ
Data File : IL1a.D
Date Inj'd : 12/13/2023 7:14 am
Sample : IL1,32,, 0.005 Lot#10235

Method : SIM-LVI_231211_sv128.M
Operator : SV128:dv
Instrument : SV128
Quant Date : 12/15/2023 1:42 pm

Compound #24: Hexachlorobenzene



Original Peak Response = 0



Manual Peak Response = 6 M2

M2 = Peak not found by automatic integration algorithm.

Evaluate Continuing Calibration Report

Data Path : I:\8270SIM\SV128\231211LVIical\
Data File : ICVa.D
Acq On : 13 Dec 2023 07:30 am
Operator : SV128:dv
Sample : CQICV,32,, 1.0 Lot#10193
Misc : WG1864557,,ical
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Dec 15 14:50:16 2023
Quant Method : I:\8270SIM\SV128\231211LVIical\SIM-LVI_231211_sv128.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Dec 15 14:46:27 2023
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	i	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	128	0.00
2	s	2-Fluorophenol	1.007	1.037	-3.0	124	0.00
3	s	Phenol-d6	1.177	1.239	-5.3	127	0.00
4	T	Bis(2-chloroethyl)ether	1.005	1.070	-6.5	134	0.00
5	T	n-nitrosodi-n-propylamine	0.702	0.753	-7.3	129	0.00
6	t	Hexachloroethane	0.478	0.488	-2.1	126	0.00
7	s	Nitrobenzene-d5	0.951	0.962	-1.2	121	0.00
8	i	Naphthalene-d8	1.000	1.000	0.0	129	0.00
9	t	Naphthalene	1.026	1.073	-4.6	132	0.00
10	t	Hexachlorobutadiene	0.235	0.250	-6.4	137	0.00
11	t	2-Methylnaphthalene	0.655	0.710	-8.4	133	0.00
12	t	1-Methylnaphthalene	0.617	0.686	-11.2	137	0.00
13	s	2-Fluorobiphenyl	0.848	0.920	-8.5	131	0.00
14	t	2-Chloronaphthalene	0.713	0.789	-10.7	135	0.00
15	t	2,6-Dinitrotoluene	*1000.000	1011.588	-1.2	136	0.00
16	t	Acenaphthylene	1.057	1.218	-15.2	138	0.00
17	i	Acenaphthene-d10	1.000	1.000	0.0	135	0.00
18	t	Acenaphthene	1.352	1.393	-3.0	135	0.00
19	t	2,4-Dinitrotoluene	*1000.000	956.844	4.3	137	0.00
20	t	Fluorene	1.365	1.571	-15.1	145	0.00
21	s	2,4,6-Tribromophenol	0.200	0.229	-14.5	145	0.00
22	i	Phenanthrene-d10	1.000	1.000	0.0	142	0.00
23	T	4,6-Dinitro-o-cresol	*1000.000	840.102	16.0	136	0.00
24	t	Hexachlorobenzene	0.266	0.298	-12.0	159	0.00
25	t	Pentachlorophenol	*1000.000	992.296	0.8	136	0.00
26	t	Phenanthrene	1.082	1.146	-5.9	149	0.00
27	t	Anthracene	1.045	1.114	-6.6	147	0.00
28	t	Fluoranthene	1.188	1.389	-16.9	157	0.00
29	t	Pyrene	1.230	1.476	-20.0	155	0.00
30	s	4-Terphenyl-d14	0.833	0.948	-13.8	148	0.00
31	i	Chrysene-d12	1.000	1.000	0.0	149	0.00
32	t	Benzo[a]anthracene	*1000.000	1041.854	-4.2	157	0.00
33	t	3,3'-Dichlorobenzidine	*1000.000	905.755	9.4	147	0.00
34	t	Chrysene	1.379	1.437	-4.2	150	0.00
35	T	Bis(2-ethylhexyl)phthalate	*1000.000	966.341	3.4	167	0.00

Evaluate Continuing Calibration Report

Data Path : I:\8270SIM\SV128\231211LVIical\
Data File : ICVa.D
Acq On : 13 Dec 2023 07:30 am
Operator : SV128:dv
Sample : CQICV,32,, 1.0 Lot#10193
Misc : WG1864557,,ical
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Dec 15 14:50:16 2023
Quant Method : I:\8270SIM\SV128\231211LVIical\SIM-LVI_231211_sv128.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Dec 15 14:46:27 2023
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
36	i	Perylene-d12	1.000	1.000	0.0	135	0.00
37	t	Benzo[b]fluoranthene	1.239	1.337	-7.9	143	0.00
38	t	Benzo[k]fluoranthene	1.153	1.268	-10.0	144	0.00
39	t	Benzo[a]pyrene	1.091	1.113	-2.0	132	0.00
40	t	Indeno[1,2,3-cd]pyrene	1.091	1.063	2.6	126	0.00
41	t	Dibenzo[a,h]anthracene	1.059	1.111	-4.9	128	-0.01
42	t	Benzo[g,h,i]perylene	1.134	1.108	2.3	122	-0.02

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV128\231211LVIical\
Data File : ICVa.D
Acq On : 13 Dec 2023 07:30 am
Operator : SV128:dv
Sample : CQICV,32,, 1.0 Lot#10193
Misc : WG1864557,,ical
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Dec 15 14:50:16 2023
Quant Method : I:\8270SIM\SV128\231211LVIical\SIM-LVI_231211_sv128.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Dec 15 14:46:27 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\SV128\231211LVIical\IL7.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.013	152	3803	4000.000	ng/ml	0.00
Standard Area 1 = 2982			Recovery = 127.53%			
8) Naphthalene-d8	2.670	136	13634	4000.000	ng/ml	0.00
Standard Area 1 = 10566			Recovery = 129.04%			
17) Acenaphthene-d10	3.638	164	8164	4000.000	ng/ml	0.00
Standard Area 1 = 6068			Recovery = 134.54%			
22) Phenanthrene-d10	4.482	188	19146	4000.000	ng/ml	0.00
Standard Area 1 = 13526			Recovery = 141.55%			
31) Chrysene-d12	6.017	240	19021	4000.000	ng/ml	0.00
Standard Area 1 = 12773			Recovery = 148.92%			
36) Perylene-d12	7.098	264	20705	4000.000	ng/ml	0.00
Standard Area 1 = 15389			Recovery = 134.54%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.421	112	986	1029.595	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 20.59%			
3) Phenol-d6	1.830	99	1178	1052.538	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 21.05%			
7) Nitrobenzene-d5	2.291	82	915	1011.638	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 40.47%			
13) 2-Fluorobiphenyl	3.268	172	3137	1084.951	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 43.40%			
21) 2,4,6-Tribromophenol	4.087	330	468	1147.149	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 22.94%			
30) 4-Terphenyl-d14	5.415	244	4538	1137.684	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 45.51%			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	1.882	93	1017	1063.947	ng/ml	98
5) n-nitrosodi-n-propylamine	2.217	70	716	1073.002	ng/ml	98
6) Hexachloroethane	2.266	117	464	1021.610	ng/ml	100
9) Naphthalene	2.679	128	3657	1045.953	ng/ml#	100
10) Hexachlorobutadiene	2.755	225	851	1062.554	ng/ml	97
11) 2-Methylnaphthalene	3.058	142	2421	1083.939	ng/ml	98
12) 1-Methylnaphthalene	3.112	142	2338	1111.555	ng/ml	100
14) 2-Chloronaphthalene	3.326	162	2688	1105.474	ng/ml	100
15) 2,6-Dinitrotoluene	3.525	165	437	1011.588	ng/ml	94
16) Acenaphthylene	3.555	152	4153	1152.979	ng/ml	99
18) Acenaphthene	3.656	153	2844	1030.521	ng/ml	100

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV128\231211LVIical\
Data File : ICVa.D
Acq On : 13 Dec 2023 07:30 am
Operator : SV128:dv
Sample : CQICV,32,, 1.0 Lot#10193
Misc : WG1864557,,ical
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Dec 15 14:50:16 2023
Quant Method : I:\8270SIM\SV128\231211LVIical\SIM-LVI_231211_sv128.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Dec 15 14:46:27 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\SV128\231211LVIical\IL7.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
19) 2,4-Dinitrotoluene	3.754	165	579	956.844	ng/ml	98
20) Fluorene	3.950	166	3206	1151.054	ng/ml	99
23) 4,6-Dinitro-o-cresol	3.983	198	311	840.102	ng/ml	99
24) Hexachlorobenzene	4.266	284	1424	1117.736	ng/ml	91
25) Pentachlorophenol	4.378	266	526	992.296	ng/ml	98
26) Phenanthrene	4.494	178	5486	1059.627	ng/ml	100
27) Anthracene	4.520	178	5333	1066.045	ng/ml	99
28) Fluoranthene	5.179	202	6647	1168.591	ng/ml	100
29) Pyrene	5.307	202	7064M6	1200.328	ng/ml	
32) Benzo[a]anthracene	6.011	228	7149	1041.854	ng/ml	100
33) 3,3'-Dichlorobenzidine	6.009	252	2423	905.755	ng/ml	100
34) Chrysene	6.033	228	6835	1042.316	ng/ml	99
35) Bis(2-ethylhexyl)phtha...	6.069	149	3228	966.341	ng/ml	100
37) Benzo[b]fluoranthene	6.768	252	6921	1079.393	ng/ml	100
38) Benzo[k]fluoranthene	6.790	252	6561	1099.564	ng/ml	100
39) Benzo[a]pyrene	7.042	252	5759	1019.966	ng/ml	100
40) Indeno[1,2,3-cd]pyrene	8.205	276	5501	974.346	ng/ml	99
41) Dibenzo[a,h]anthracene	8.243	278	5753	1049.156	ng/ml	96
42) Benzo[g,h,i]perylene	8.509	276	5736	977.442	ng/ml	98

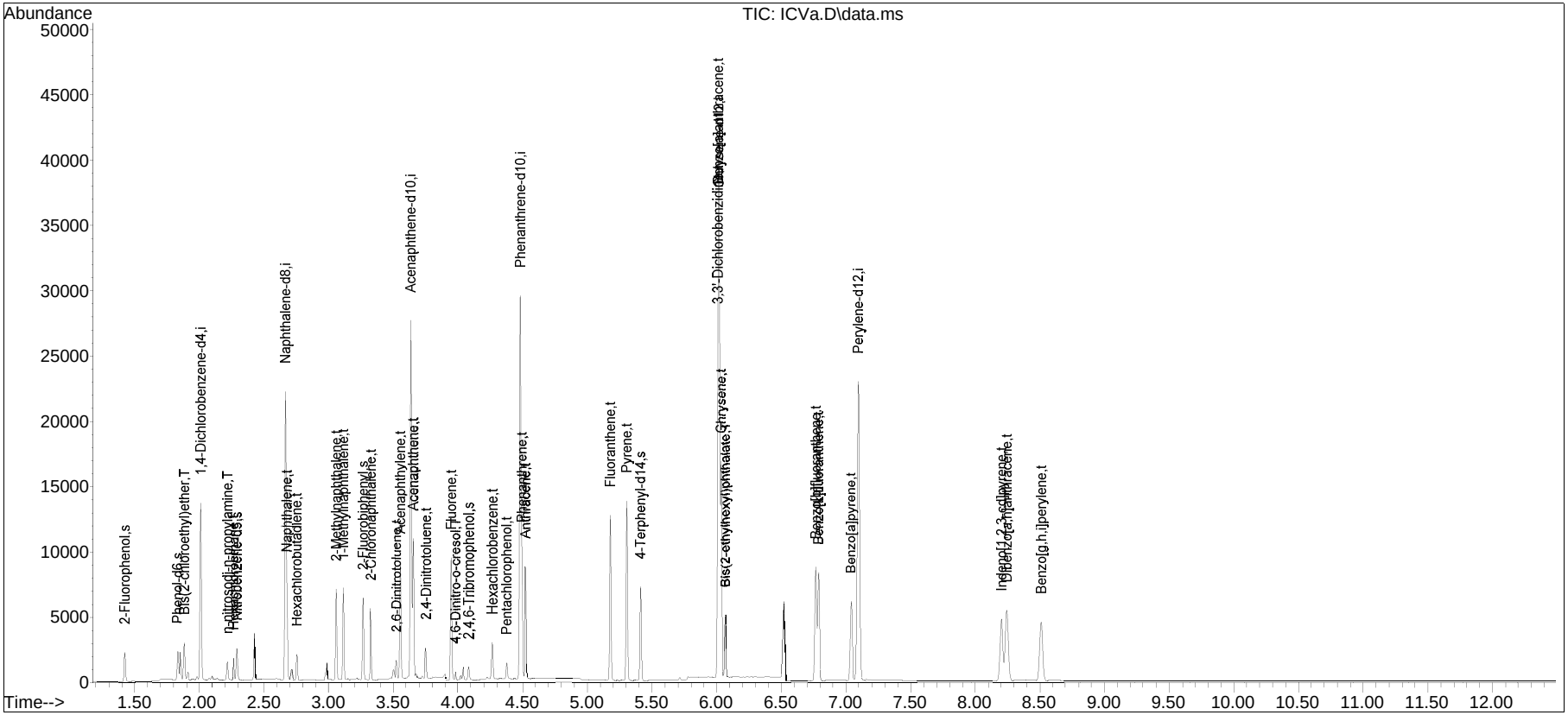
(#) = qualifier out of range (m) = manual integration (+) = signals summed

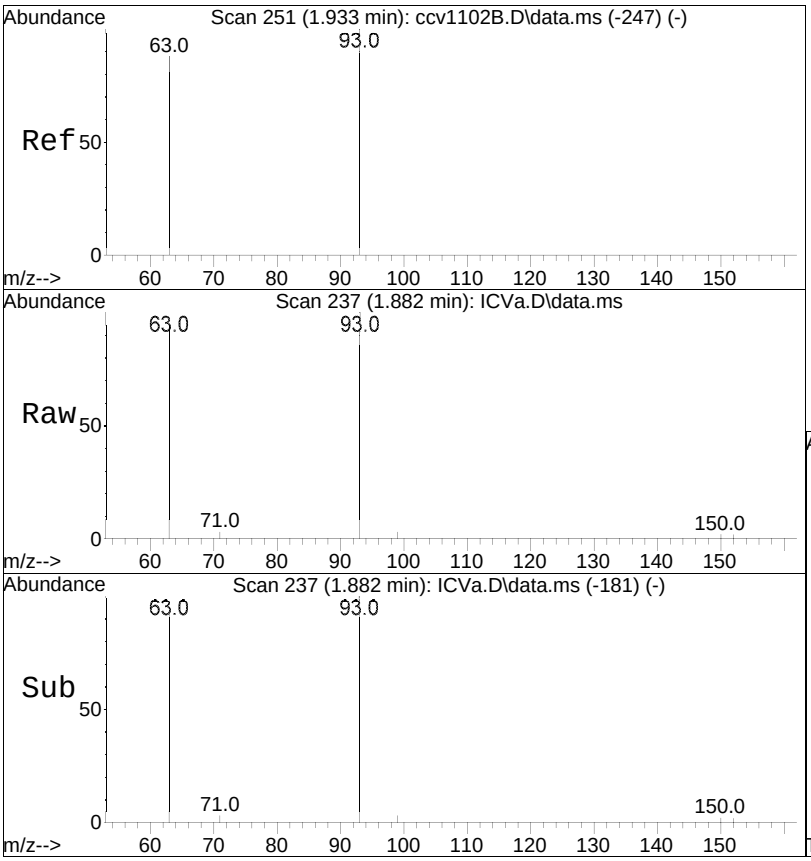
Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV128\231211LVIical\
Data File : ICVa.D
Acq On : 13 Dec 2023 07:30 am
Operator : SV128:dv
Sample : CQICV,32,, 1.0 Lot#10193
Misc : WG1864557,,ical
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Dec 15 14:50:16 2023
Quant Method : I:\8270SIM\SV128\231211LVIical\SIM-LVI_231211_sv128.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Dec 15 14:46:27 2023
Response via : Initial Calibration

Sub List : Default - All compounds listedical\IL7.D•

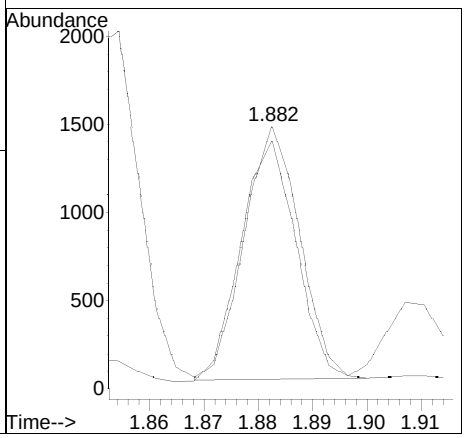


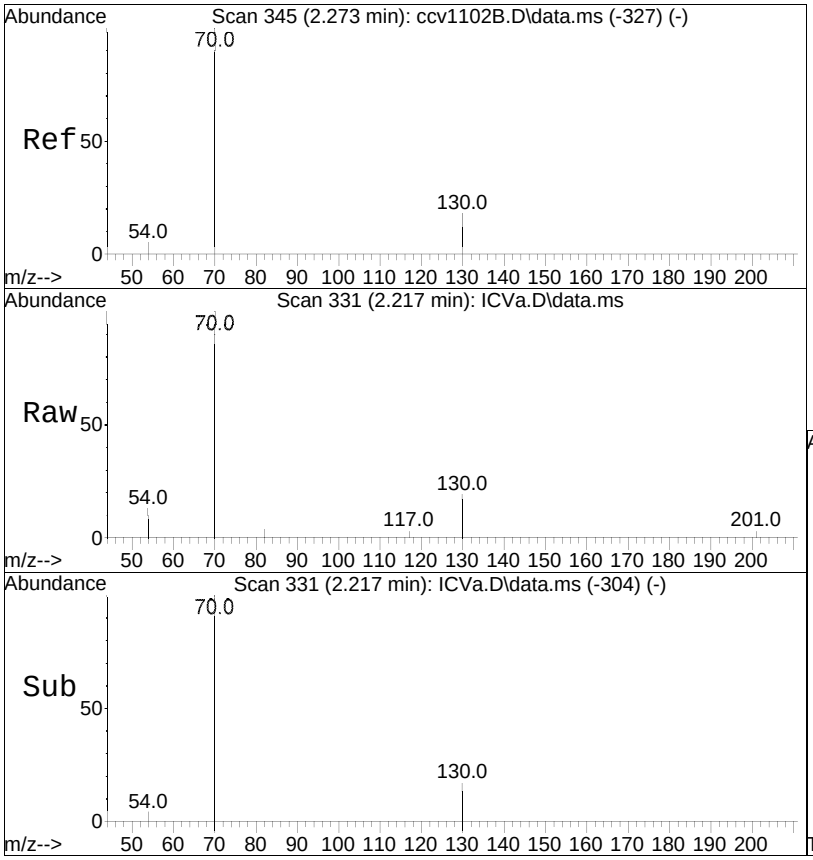


#4
Bis(2-chloroethyl)ether
Concen: 1063.95 ng/ml
RT: 1.882 min Scan# 237
Delta R.T. -0.002 min
Lab File: ICVa.D
Acq: 13 Dec 2023 07:30 am

Tgt Ion: 93 Resp: 1017

Ion	Ratio	Lower	Upper
93	100		
63	99.0	77.3	115.9

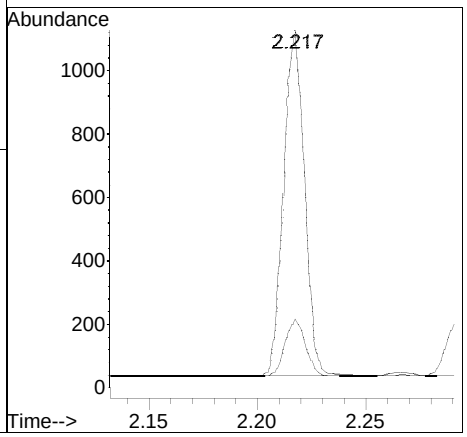


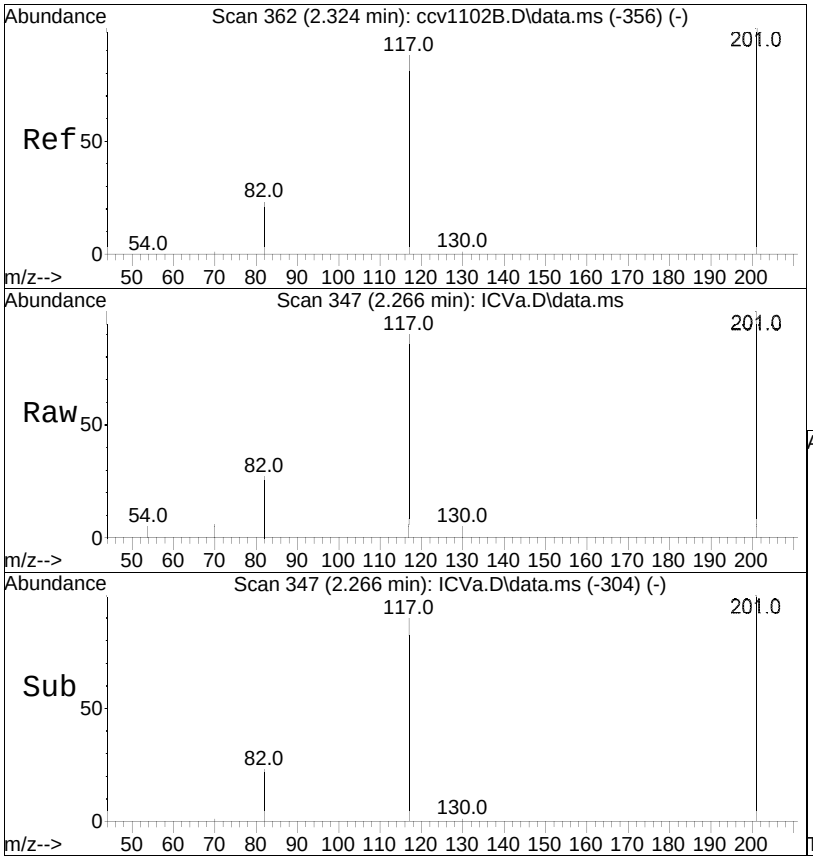


#5
n-nitrosodi-n-propylamine
Concen: 1073.00 ng/ml
RT: 2.217 min Scan# 331
Delta R.T. -0.003 min
Lab File: ICVa.D
Acq: 13 Dec 2023 07:30 am

Tgt Ion: 70 Resp: 716

Ion	Ratio	Lower	Upper
70	100		
130	16.3	13.6	20.4

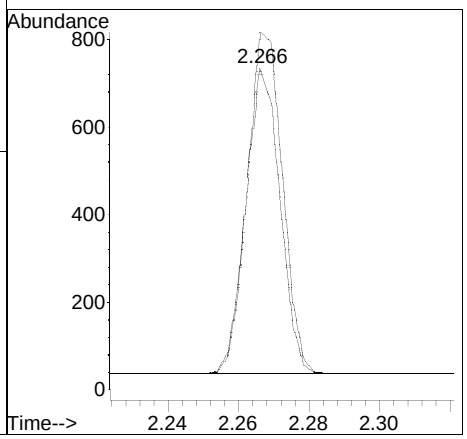


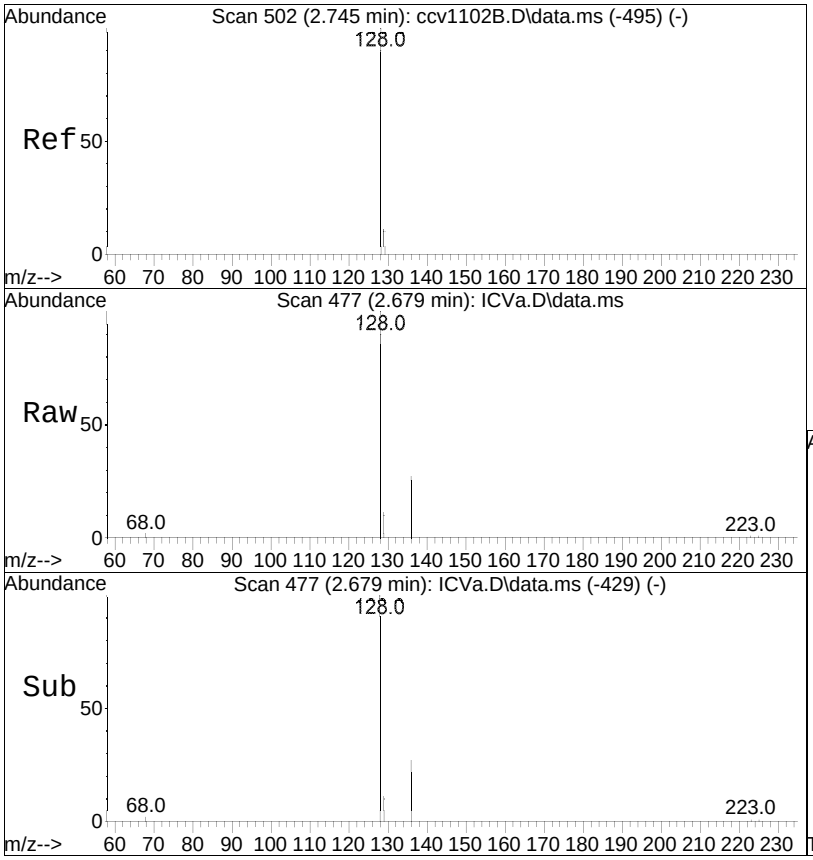


#6
Hexachloroethane
Concen: 1021.61 ng/ml
RT: 2.266 min Scan# 347
Delta R.T. -0.002 min
Lab File: ICVa.D
Acq: 13 Dec 2023 07:30 am

Tgt Ion:117 Resp: 464

Ion	Ratio	Lower	Upper
117	100		
201	115.1	91.8	137.6

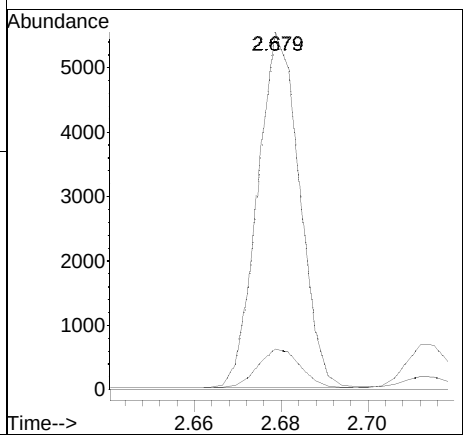


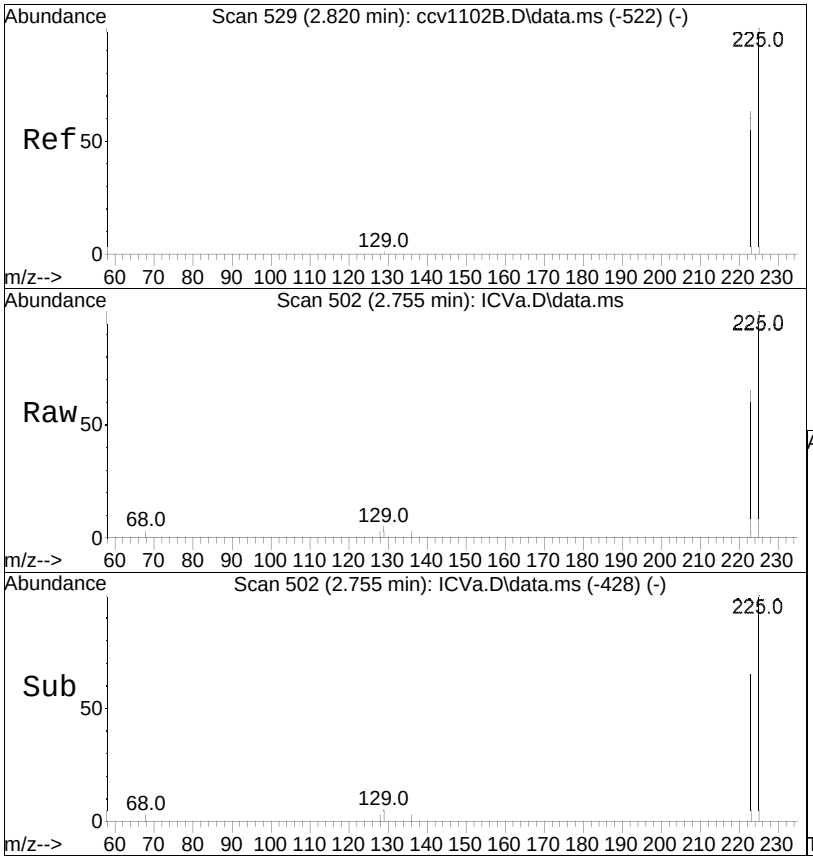


#9
Naphthalene
Concen: 1045.95 ng/ml
RT: 2.679 min Scan# 477
Delta R.T. -0.002 min
Lab File: ICVa.D
Acq: 13 Dec 2023 07:30 am

Tgt Ion:128 Resp: 3657

Ion	Ratio	Lower	Upper
128	100		
129	10.9	8.8	13.2
127	0.0	0.0	0.0

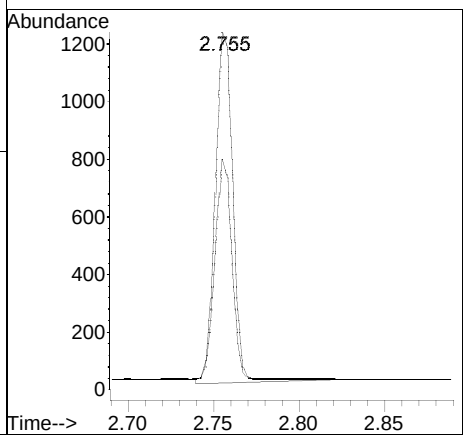


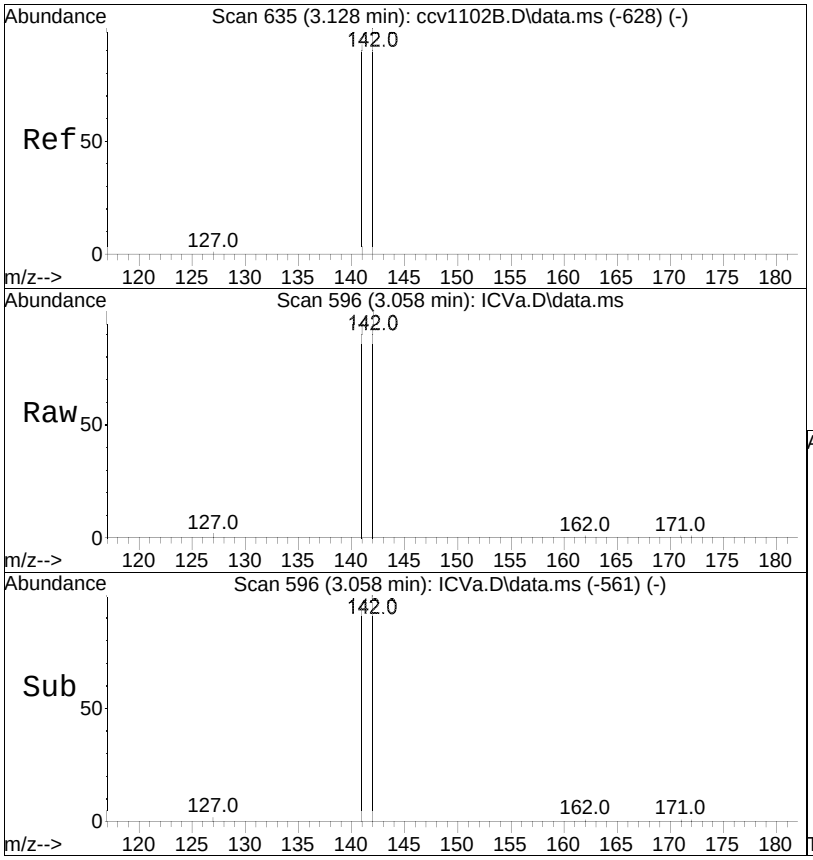


#10
Hexachlorobutadiene
Concen: 1062.55 ng/ml
RT: 2.755 min Scan# 502
Delta R.T. -0.002 min
Lab File: ICVa.D
Acq: 13 Dec 2023 07:30 am

Tgt Ion:225 Resp: 851

Ion	Ratio	Lower	Upper
225	100		
223	59.8	49.9	74.9

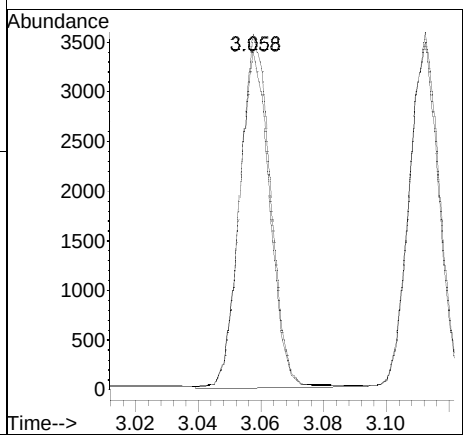


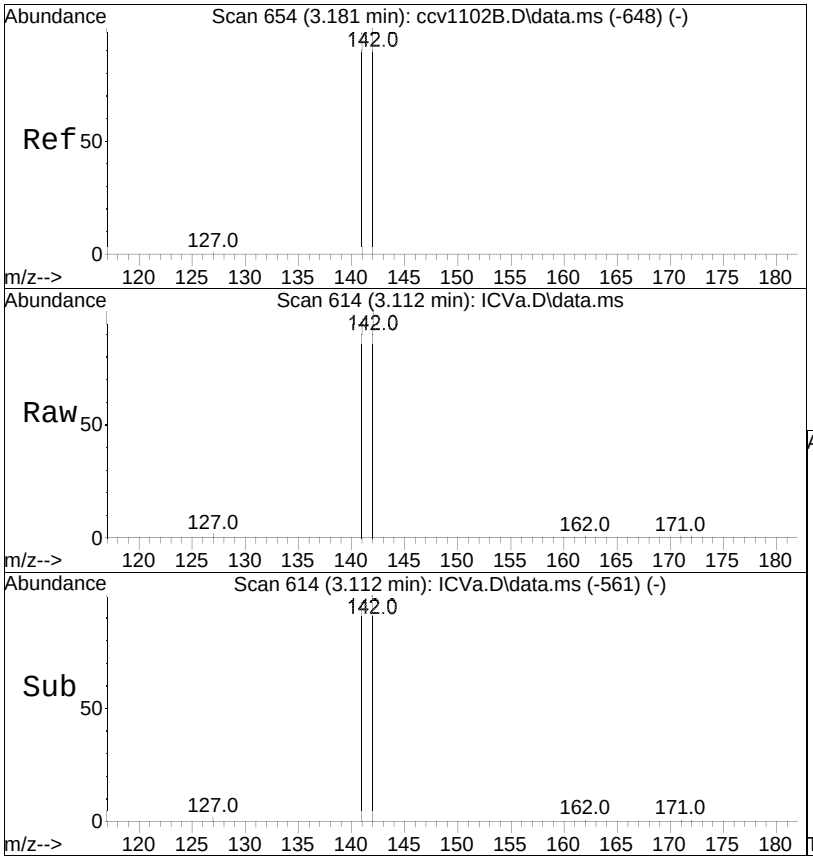


#11
2-Methylnaphthalene
Concen: 1083.94 ng/ml
RT: 3.058 min Scan# 596
Delta R.T. -0.002 min
Lab File: ICVa.D
Acq: 13 Dec 2023 07:30 am

Tgt Ion:142 Resp: 2421

Ion	Ratio	Lower	Upper
142	100		
141	92.7	75.9	113.9

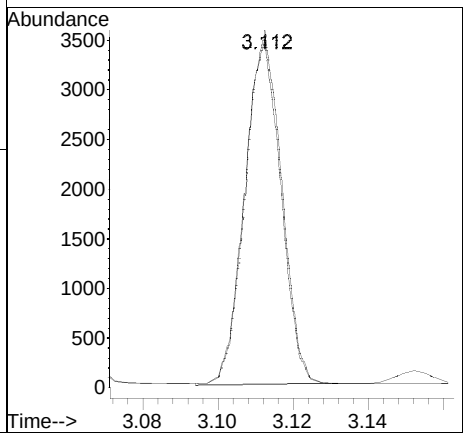


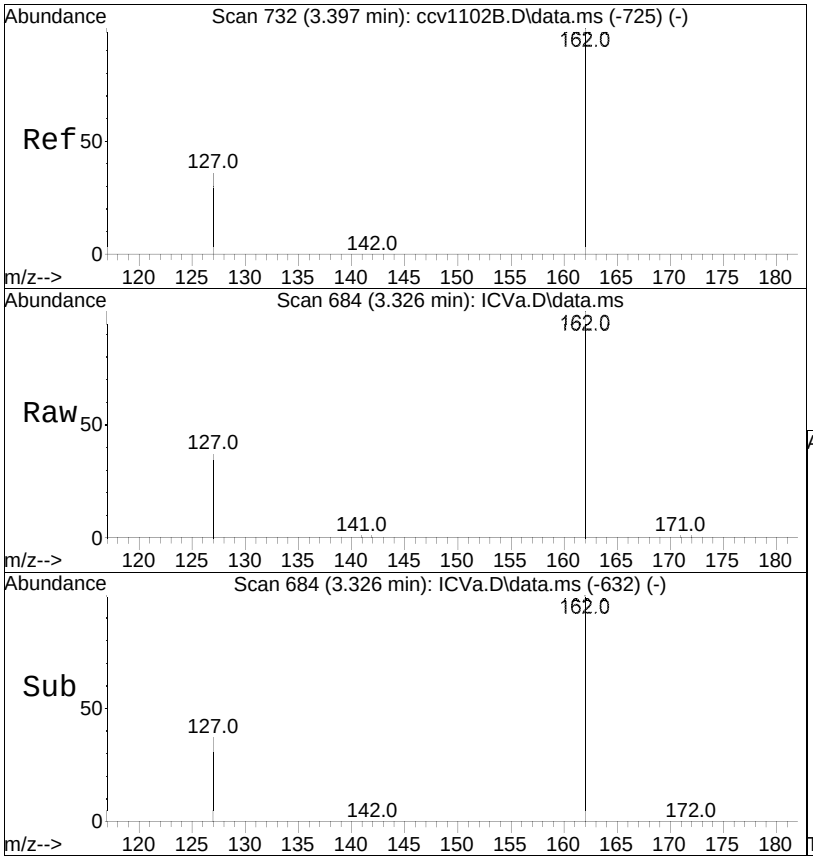


#12
1-Methylnaphthalene
Concen: 1111.55 ng/ml
RT: 3.112 min Scan# 614
Delta R.T. -0.003 min
Lab File: ICVa.D
Acq: 13 Dec 2023 07:30 am

Tgt Ion:142 Resp: 2338

Ion	Ratio	Lower	Upper
142	100		
141	97.6	77.9	116.9

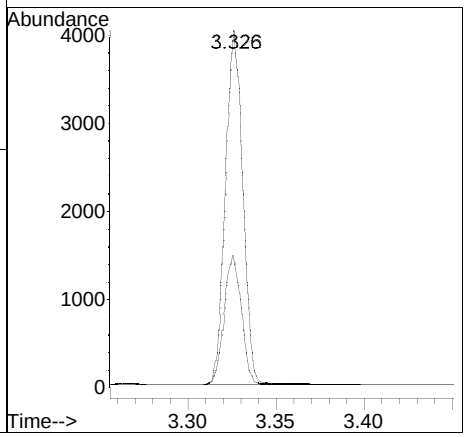


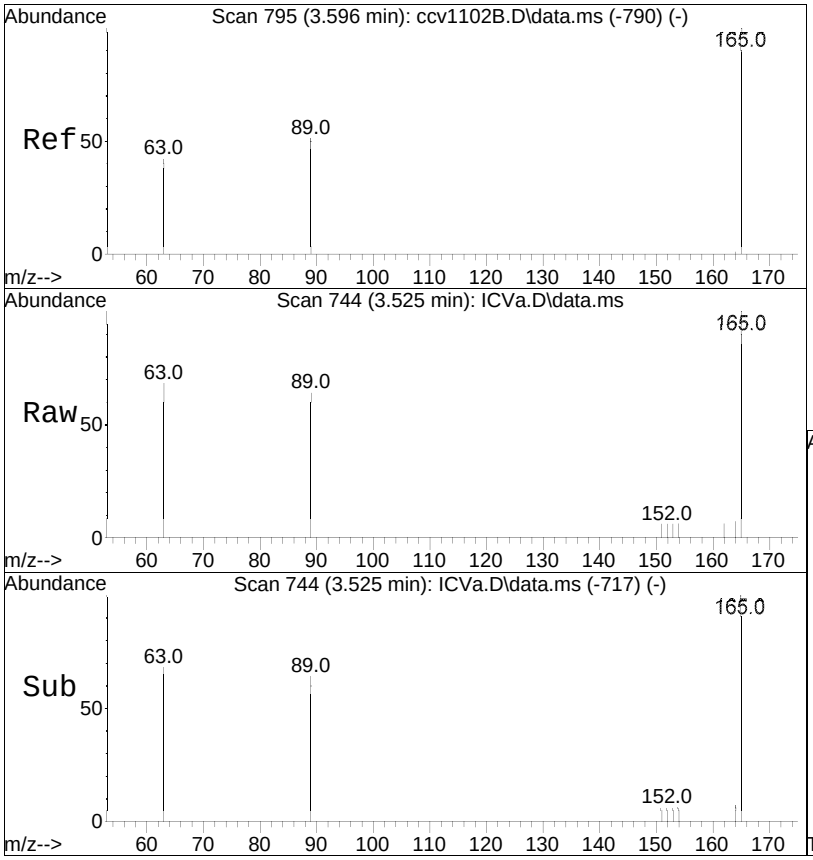


#14
2-Chloronaphthalene
Concen: 1105.47 ng/ml
RT: 3.326 min Scan# 684
Delta R.T. -0.002 min
Lab File: ICVa.D
Acq: 13 Dec 2023 07:30 am

Tgt Ion:162 Resp: 2688

Ion	Ratio	Lower	Upper
162	100		
127	36.5	29.3	43.9

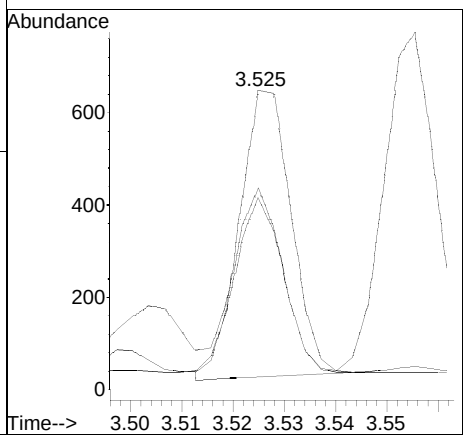


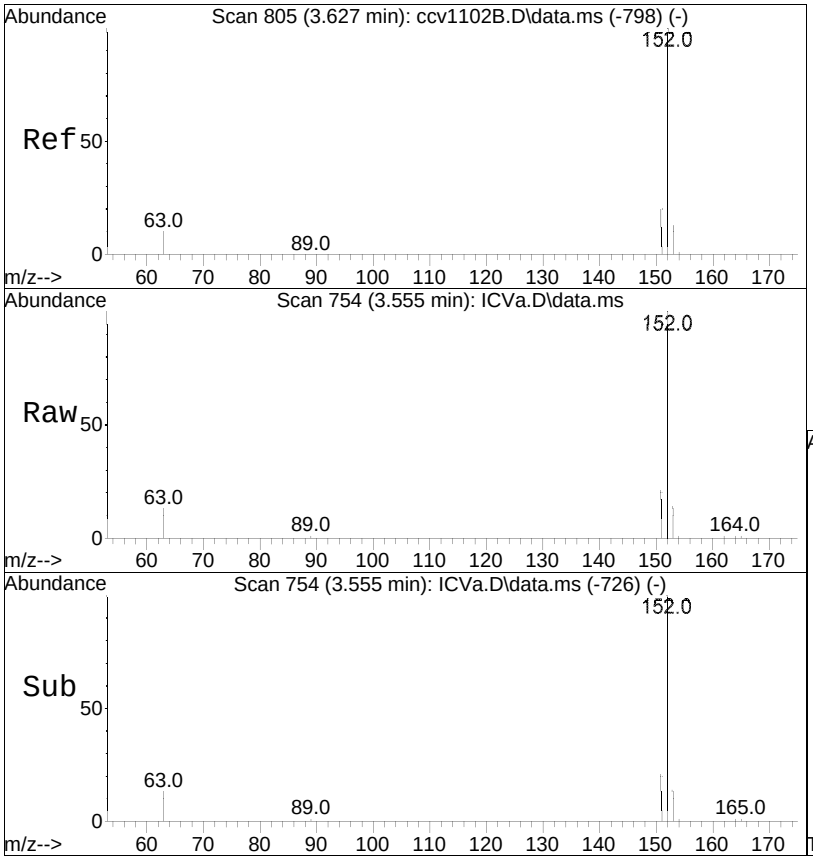


#15
2,6-Dinitrotoluene
Concen: 1011.59 ng/ml
RT: 3.525 min Scan# 744
Delta R.T. -0.002 min
Lab File: ICVa.D
Acq: 13 Dec 2023 07:30 am

Tgt Ion:165 Resp: 437

Ion	Ratio	Lower	Upper
165	100		
89	56.8	46.6	70.0
63	67.3	47.8	71.8

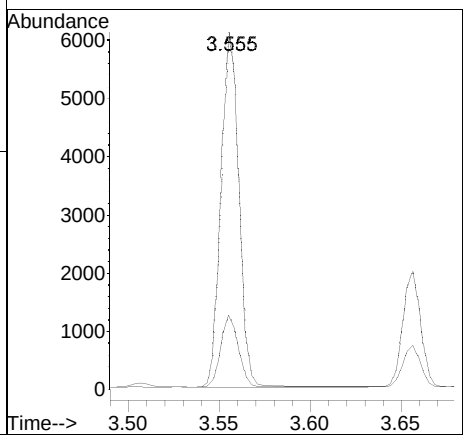


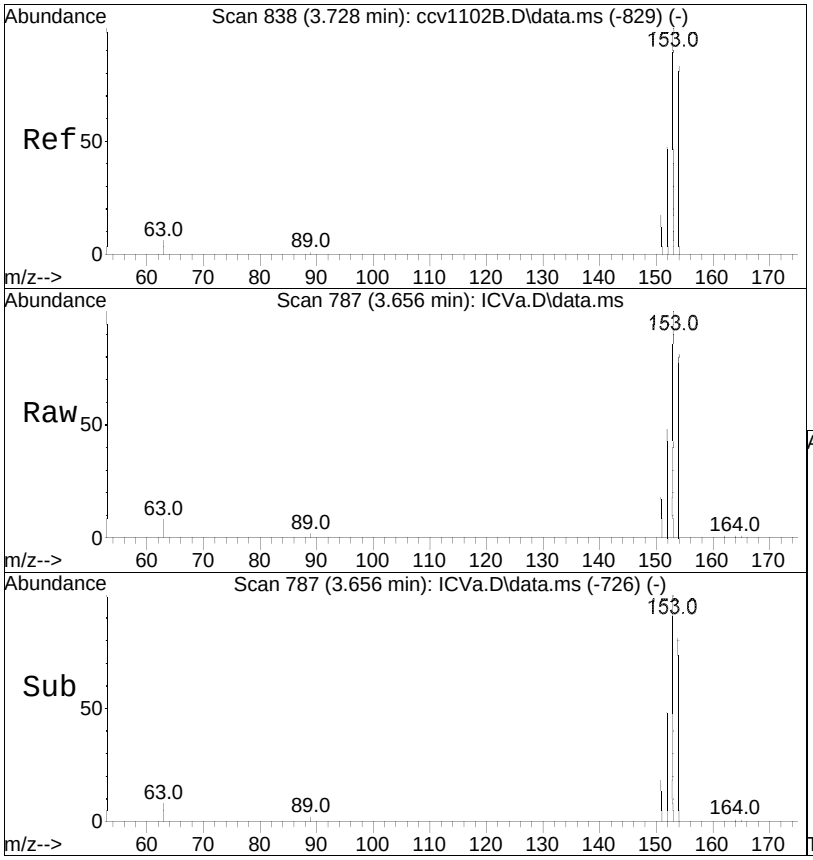


#16
Acenaphthylene
Concen: 1152.98 ng/ml
RT: 3.555 min Scan# 754
Delta R.T. -0.003 min
Lab File: ICVa.D
Acq: 13 Dec 2023 07:30 am

Tgt Ion:152 Resp: 4153

Ion	Ratio	Lower	Upper
152	100		
151	20.2	16.4	24.6

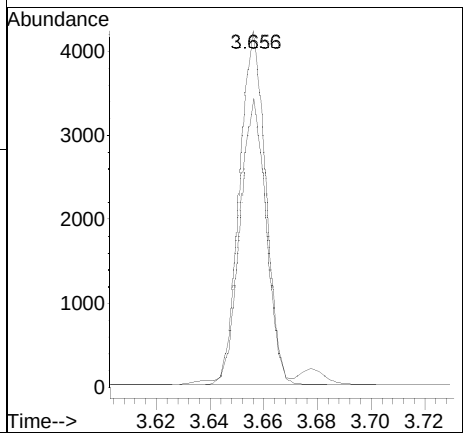


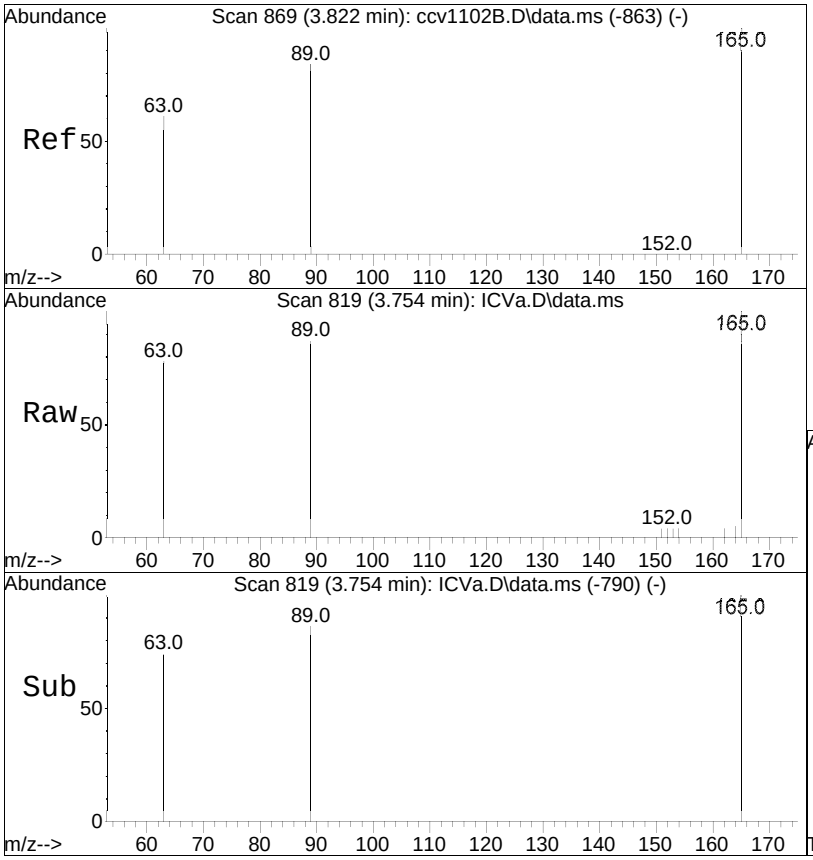


#18
Acenaphthene
Concen: 1030.52 ng/ml
RT: 3.656 min Scan# 787
Delta R.T. -0.002 min
Lab File: ICVa.D
Acq: 13 Dec 2023 07:30 am

Tgt Ion:153 Resp: 2844

Ion	Ratio	Lower	Upper
153	100		
154	82.0	65.8	98.6

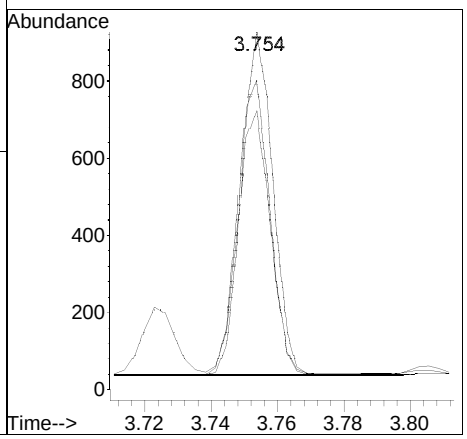


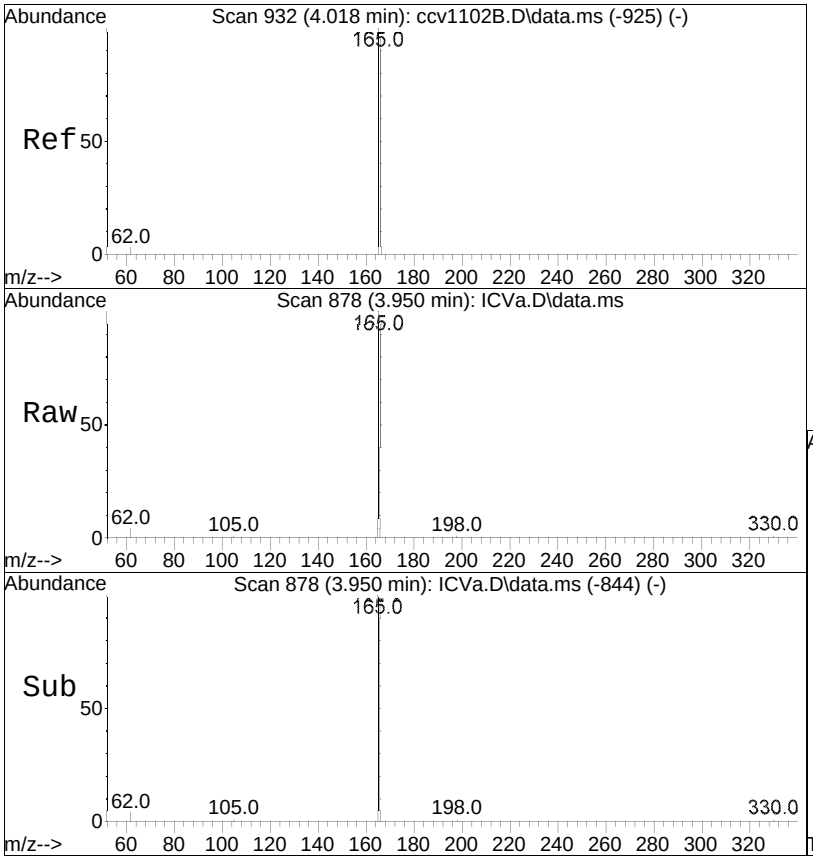


#19
2,4-Dinitrotoluene
Concen: 956.84 ng/ml
RT: 3.754 min Scan# 819
Delta R.T. -0.002 min
Lab File: ICVa.D
Acq: 13 Dec 2023 07:30 am

Tgt Ion:165 Resp: 579

Ion	Ratio	Lower	Upper
165	100		
89	89.5	70.6	105.8
63	80.1	62.7	94.1

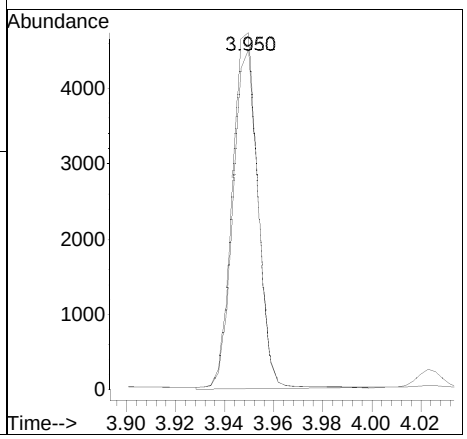


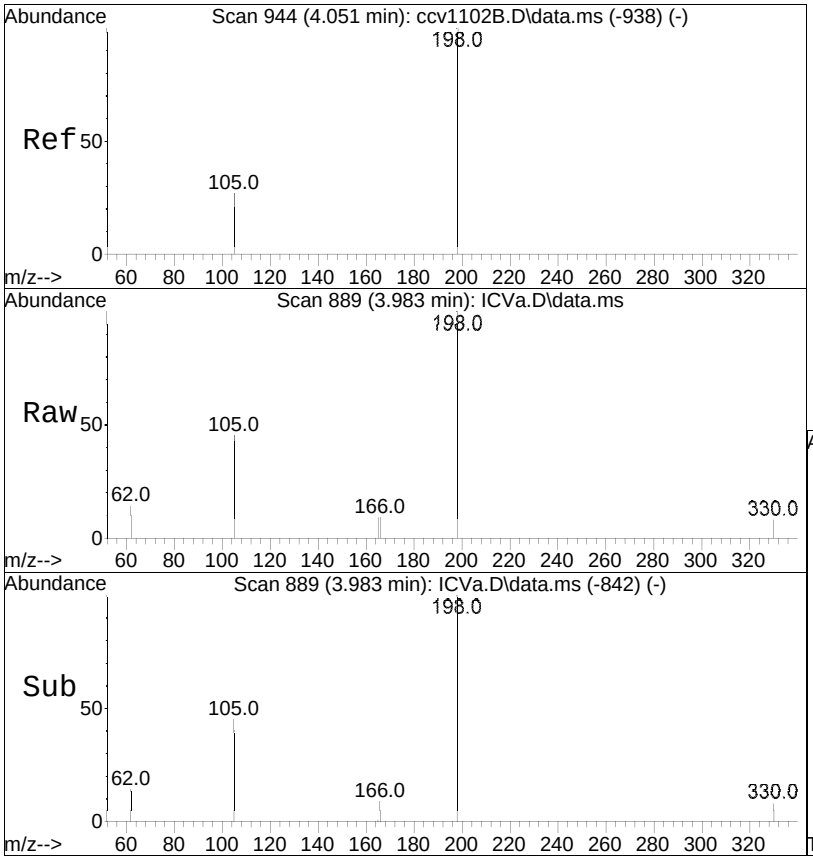


#20
Fluorene
Concen: 1151.05 ng/ml
RT: 3.950 min Scan# 878
Delta R.T. -0.002 min
Lab File: ICVa.D
Acq: 13 Dec 2023 07:30 am

Tgt Ion:166 Resp: 3206

Ion	Ratio	Lower	Upper
166	100		
165	106.1	85.7	128.5

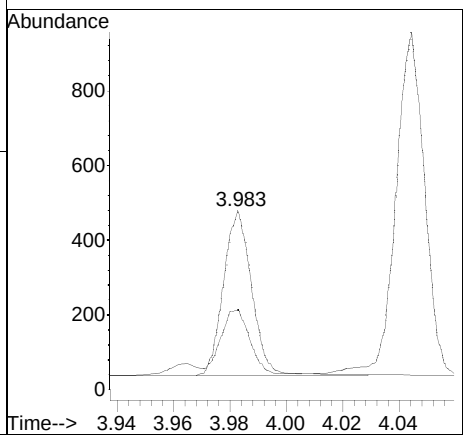


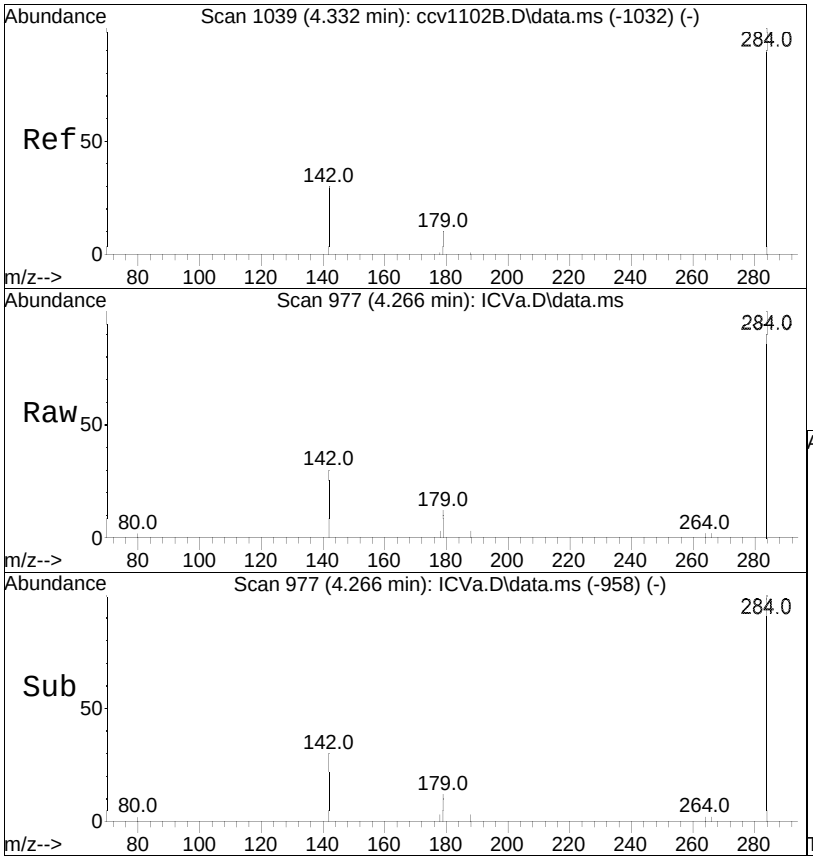


#23
4,6-Dinitro-o-cresol
Concen: 840.10 ng/ml
RT: 3.983 min Scan# 889
Delta R.T. -0.002 min
Lab File: ICVa.D
Acq: 13 Dec 2023 07:30 am

Tgt Ion:198 Resp: 311

Ion	Ratio	Lower	Upper
198	100		
105	40.2	31.4	47.2

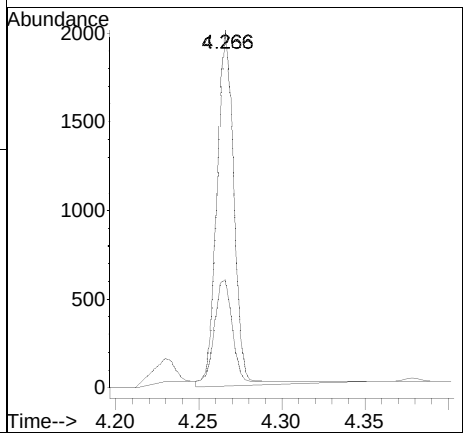


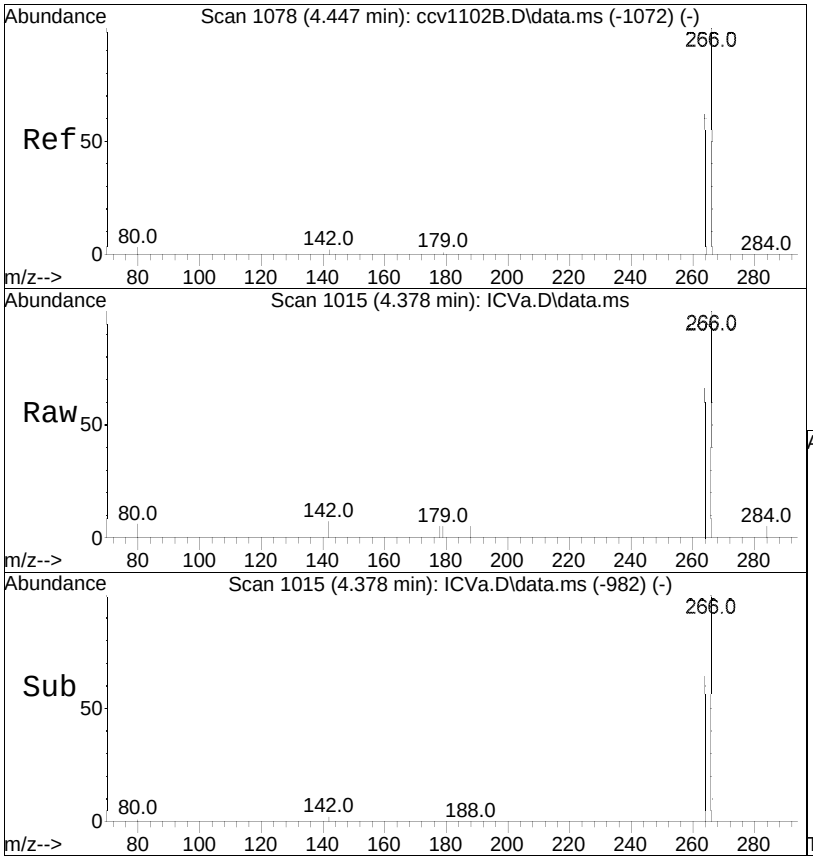


#24
Hexachlorobenzene
Concen: 1117.74 ng/ml
RT: 4.266 min Scan# 977
Delta R.T. -0.002 min
Lab File: ICVa.D
Acq: 13 Dec 2023 07:30 am

Tgt Ion:284 Resp: 1424

Ion	Ratio	Lower	Upper
284	100		
142	34.9	23.9	35.9

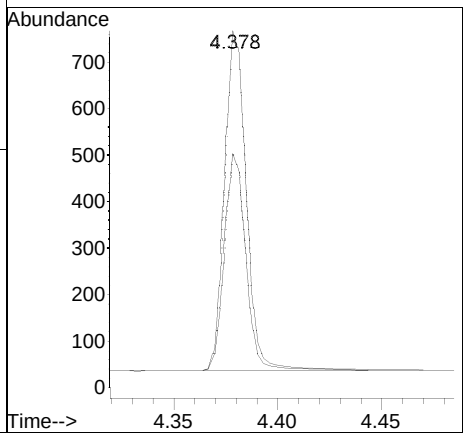


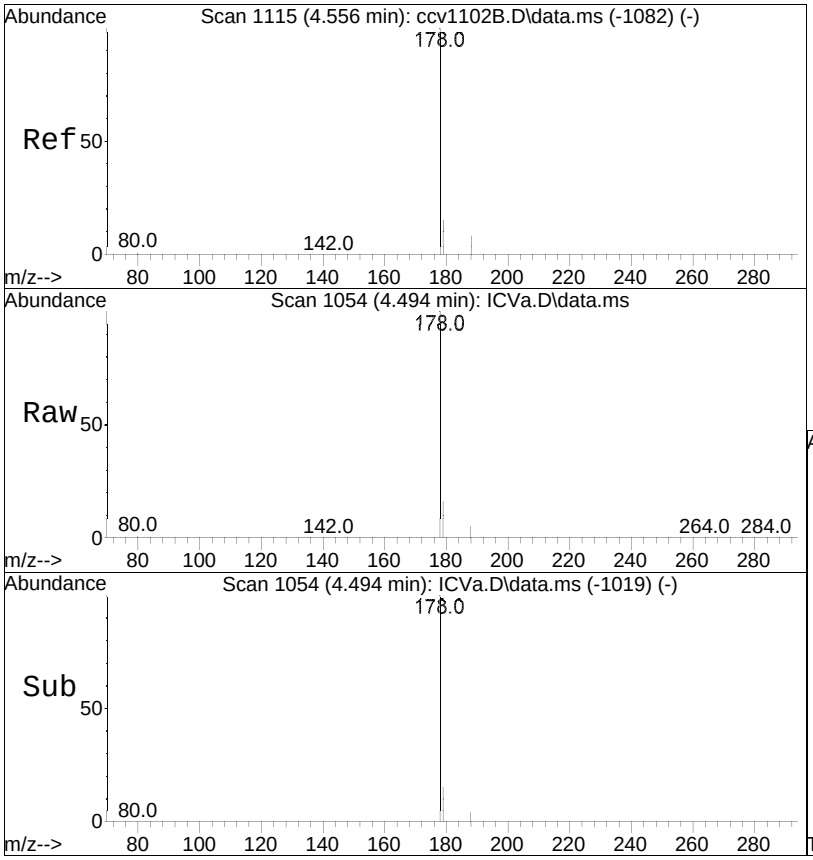


#25
Pentachlorophenol
Concen: 992.30 ng/ml
RT: 4.378 min Scan# 1015
Delta R.T. -0.006 min
Lab File: ICVa.D
Acq: 13 Dec 2023 07:30 am

Tgt Ion:266 Resp: 526

Ion	Ratio	Lower	Upper
266	100		
264	63.3	49.7	74.5

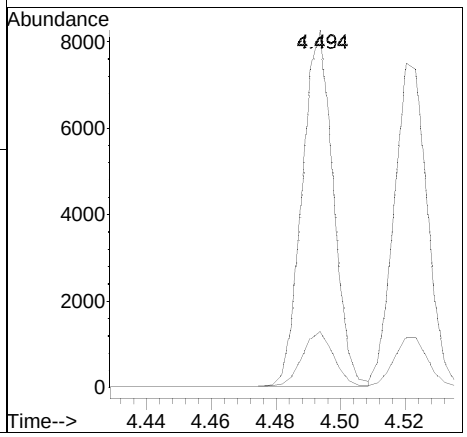


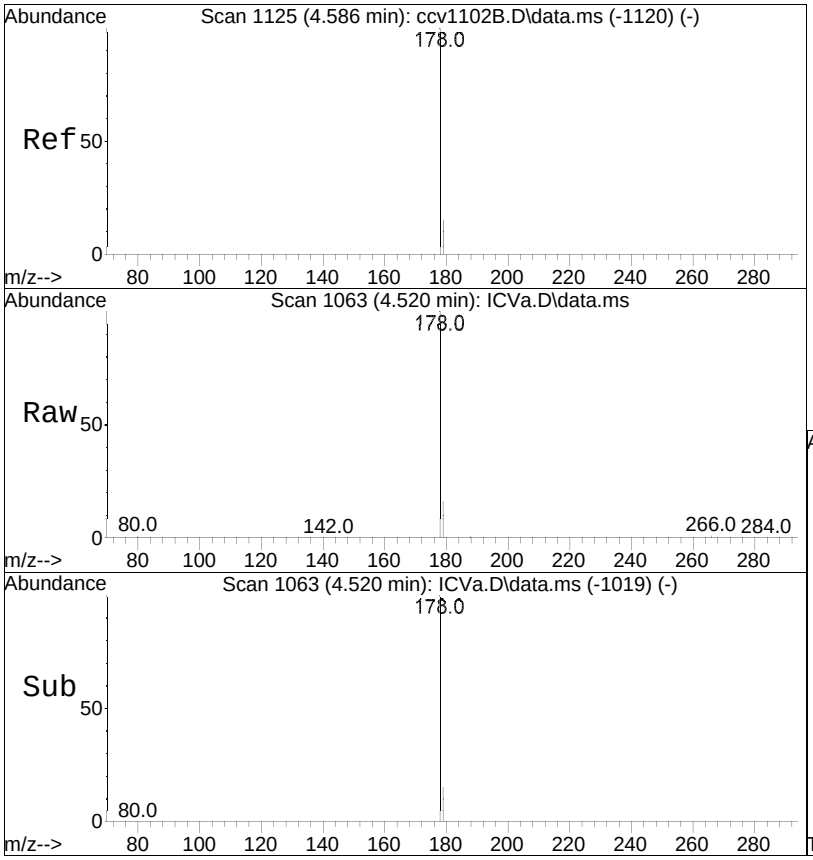


#26
Phenanthrene
Concen: 1059.63 ng/ml
RT: 4.494 min Scan# 1054
Delta R.T. -0.002 min
Lab File: ICVa.D
Acq: 13 Dec 2023 07:30 am

Tgt Ion:178 Resp: 5486

Ion	Ratio	Lower	Upper
178	100		
179	15.4	12.2	18.4

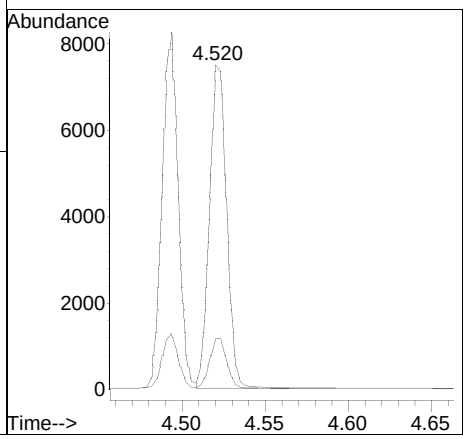


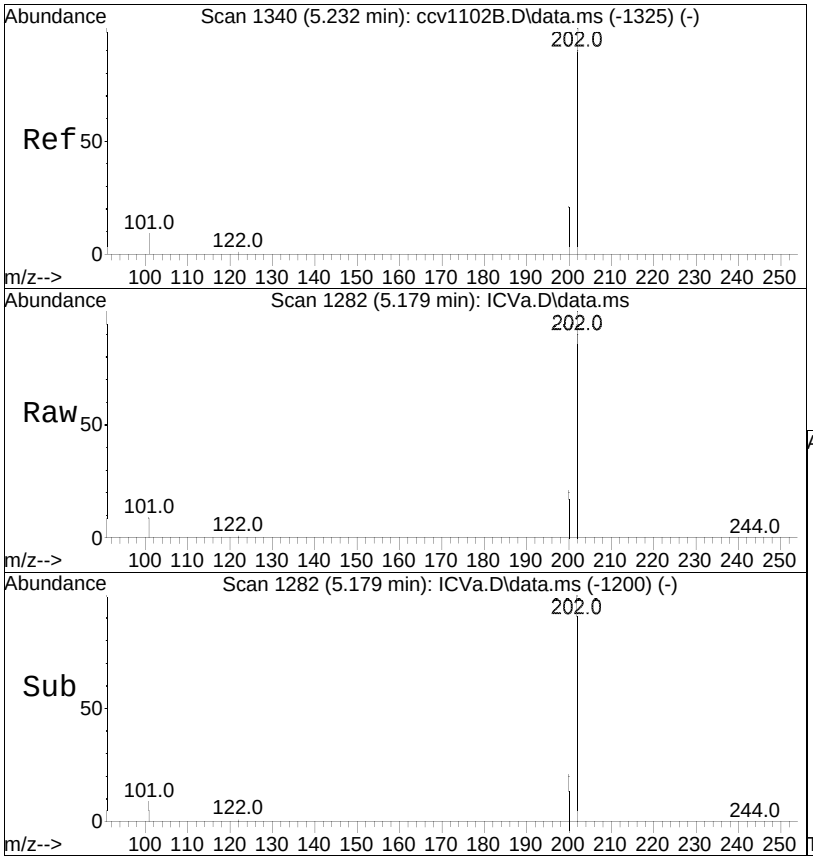


#27
Anthracene
Concen: 1066.05 ng/ml
RT: 4.520 min Scan# 1063
Delta R.T. -0.005 min
Lab File: ICVa.D
Acq: 13 Dec 2023 07:30 am

Tgt Ion:178 Resp: 5333

Ion	Ratio	Lower	Upper
178	100		
179	15.8	12.2	18.2

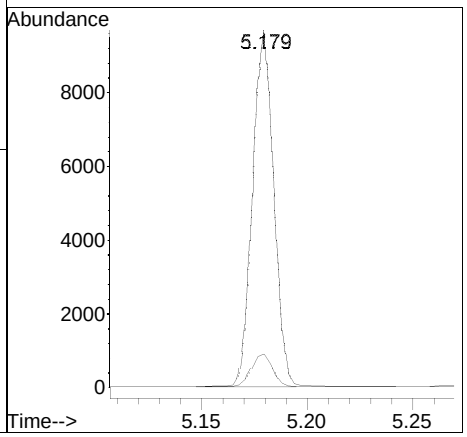


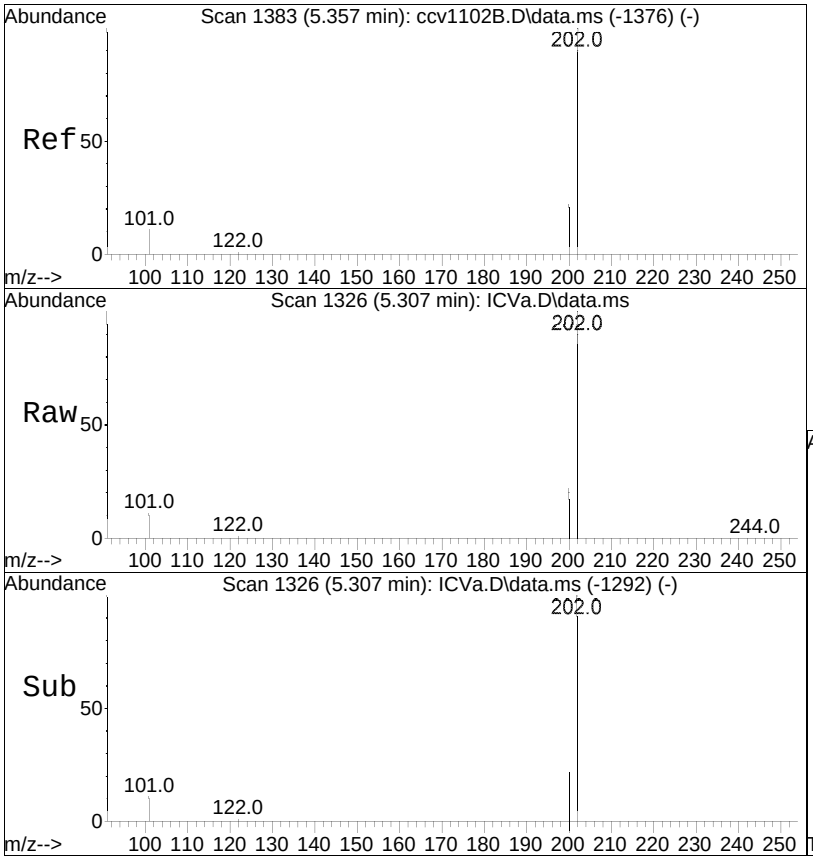


#28
Fluoranthene
Concen: 1168.59 ng/ml
RT: 5.179 min Scan# 1282
Delta R.T. -0.005 min
Lab File: ICVa.D
Acq: 13 Dec 2023 07:30 am

Tgt Ion:202 Resp: 6647

Ion	Ratio	Lower	Upper
202	100		
101	9.1	7.2	10.8

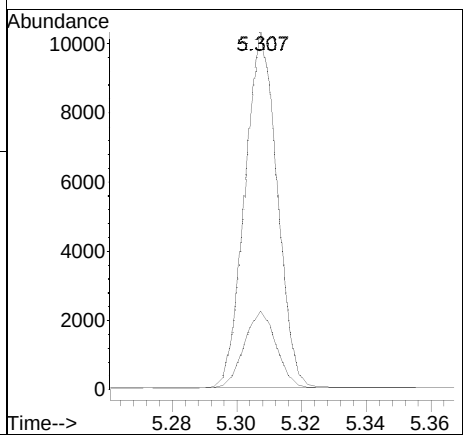


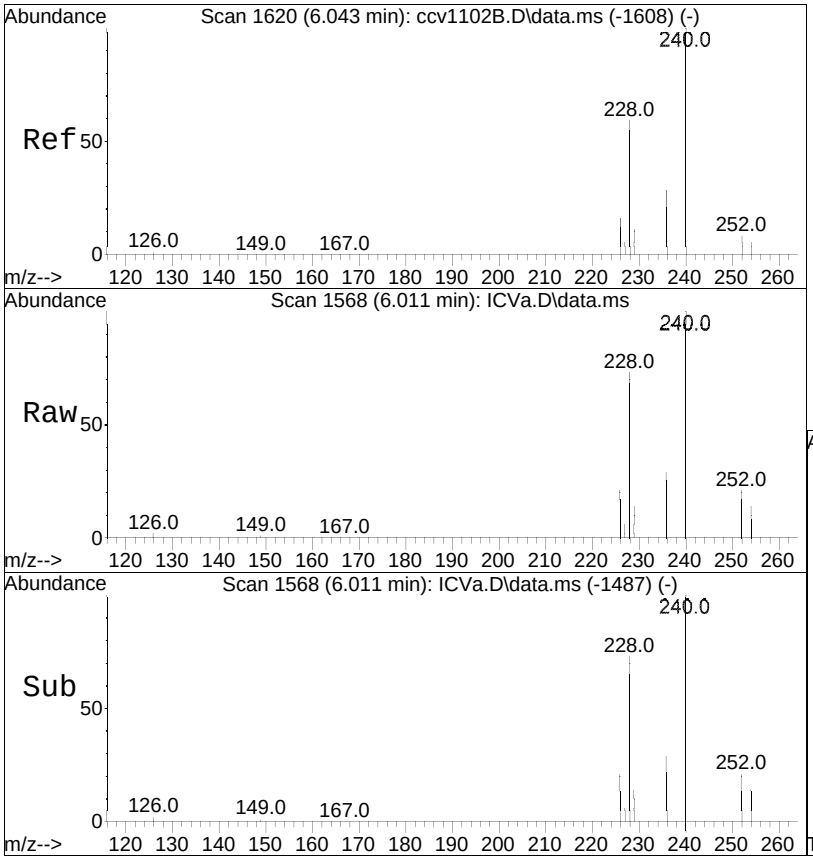


#29
Pyrene
Concen: 1200.33 ng/ml M6
RT: 5.307 min Scan# 1326
Delta R.T. -0.005 min
Lab File: ICVa.D
Acq: 13 Dec 2023 07:30 am

Tgt Ion:202 Resp: 7064

Ion	Ratio	Lower	Upper
202	100		
200	21.7	17.7	26.5

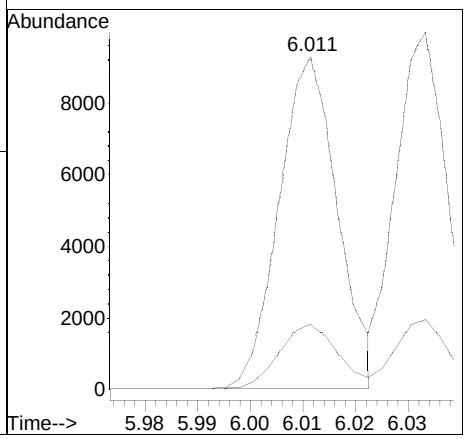


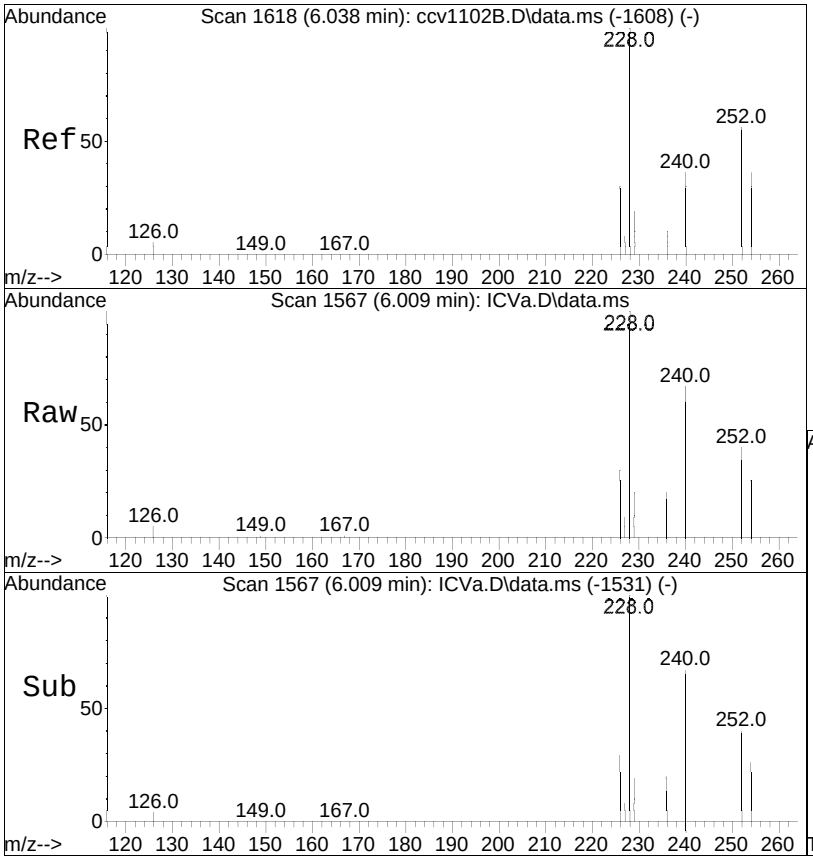


#32
Benzo[a]anthracene
Concen: 1041.85 ng/ml
RT: 6.011 min Scan# 1568
Delta R.T. -0.003 min
Lab File: ICVa.D
Acq: 13 Dec 2023 07:30 am

Tgt Ion:228 Resp: 7149

Ion	Ratio	Lower	Upper
228	100		
229	19.5	15.7	23.5

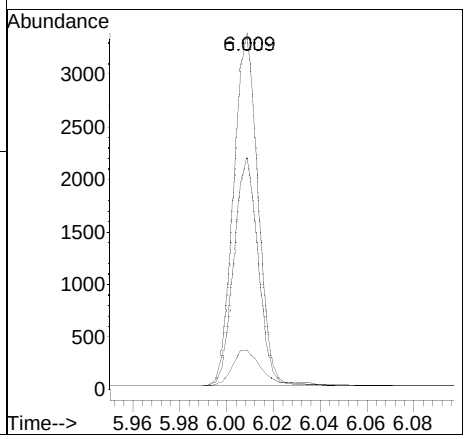


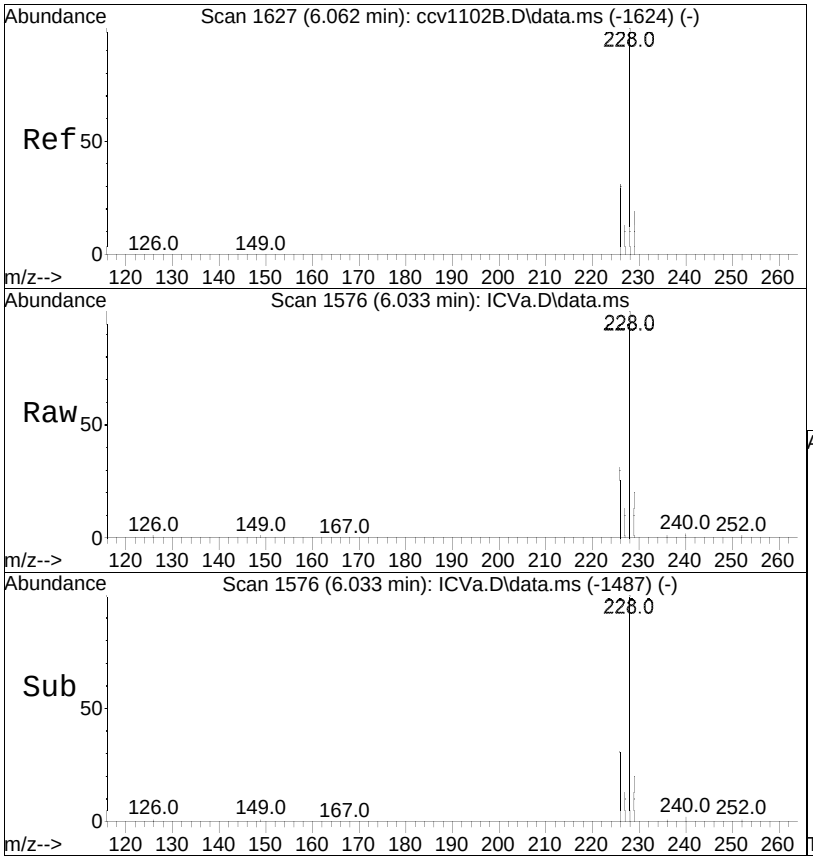


#33
3,3'-Dichlorobenzidine
Concen: 905.76 ng/ml
RT: 6.009 min Scan# 1567
Delta R.T. -0.002 min
Lab File: ICVa.D
Acq: 13 Dec 2023 07:30 am

Tgt Ion:252 Resp: 2423

Ion	Ratio	Lower	Upper
252	100		
126	11.8	9.4	14.0
254	64.7	51.8	77.6

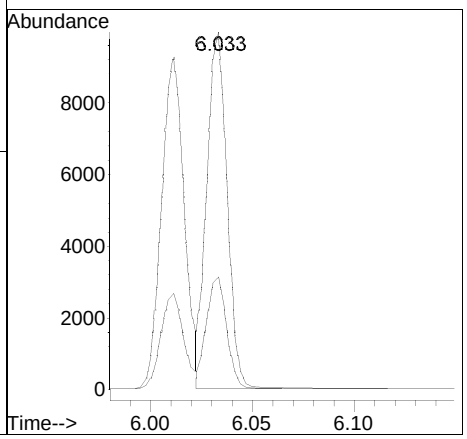


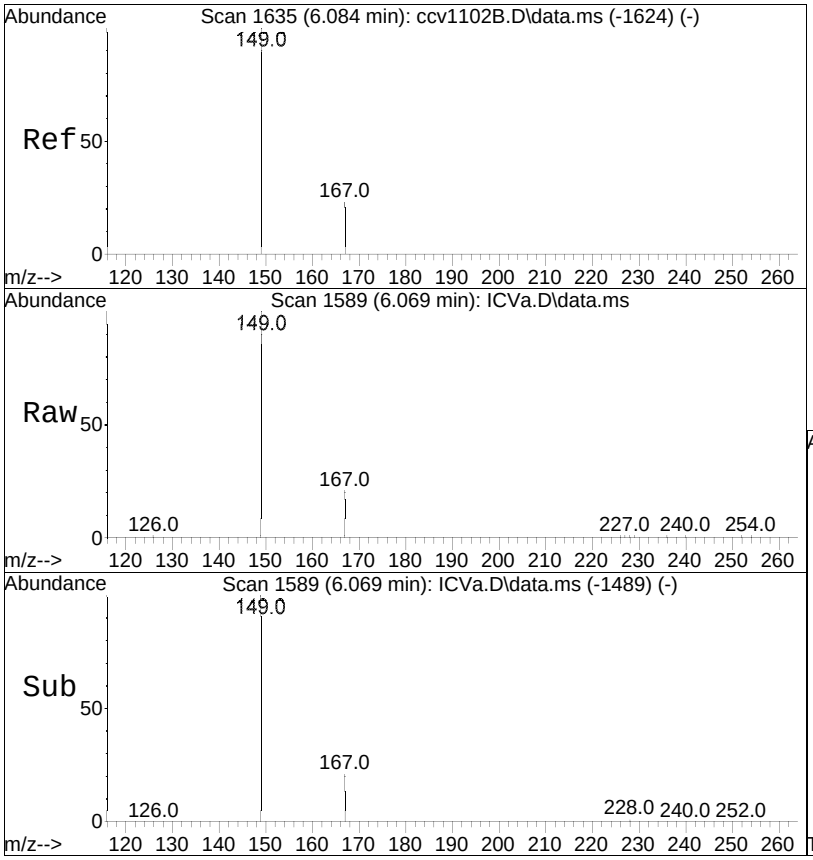


#34
Chrysene
Concen: 1042.32 ng/ml
RT: 6.033 min Scan# 1576
Delta R.T. -0.003 min
Lab File: ICVa.D
Acq: 13 Dec 2023 07:30 am

Tgt Ion:228 Resp: 6835

Ion	Ratio	Lower	Upper
228	100		
226	31.2	24.6	36.8

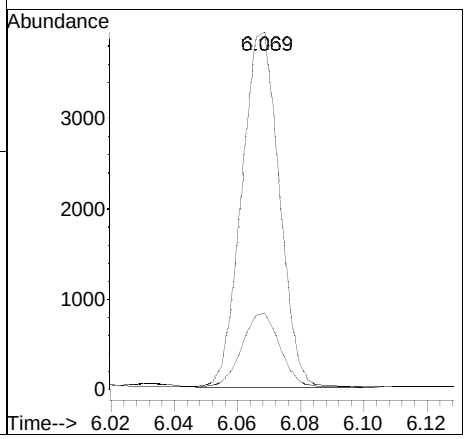


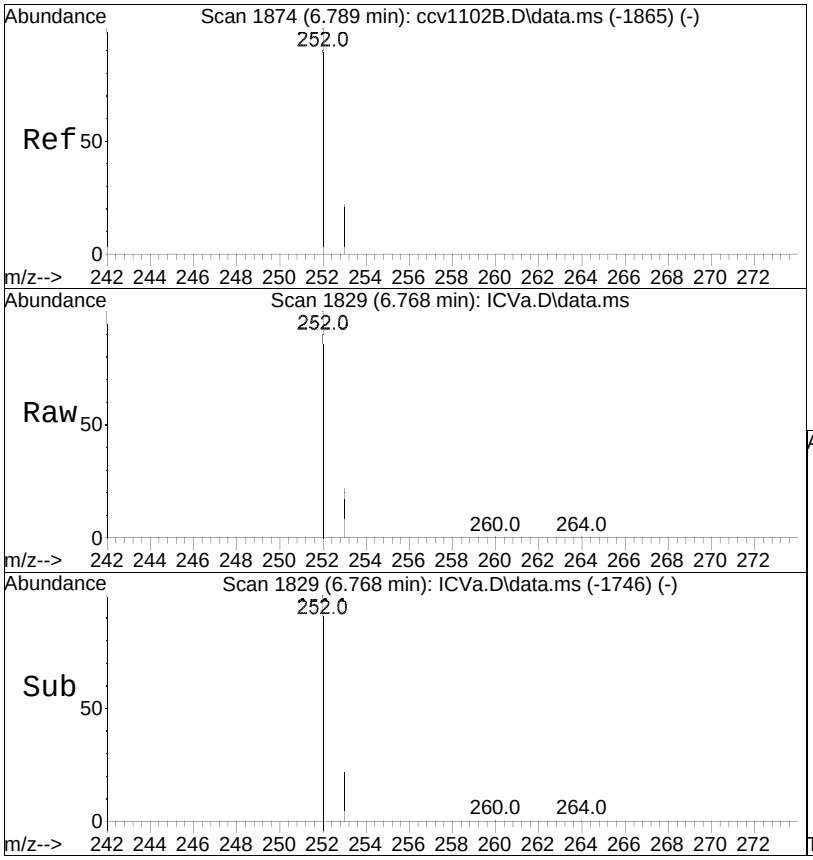


#35
Bis(2-ethylhexyl)phthalate
Concen: 966.34 ng/ml
RT: 6.069 min Scan# 1589
Delta R.T. -0.002 min
Lab File: ICVa.D
Acq: 13 Dec 2023 07:30 am

Tgt Ion:149 Resp: 3228

Ion	Ratio	Lower	Upper
149	100		
167	20.4	16.4	24.6

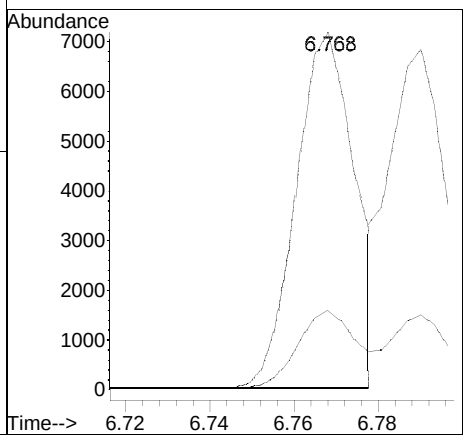


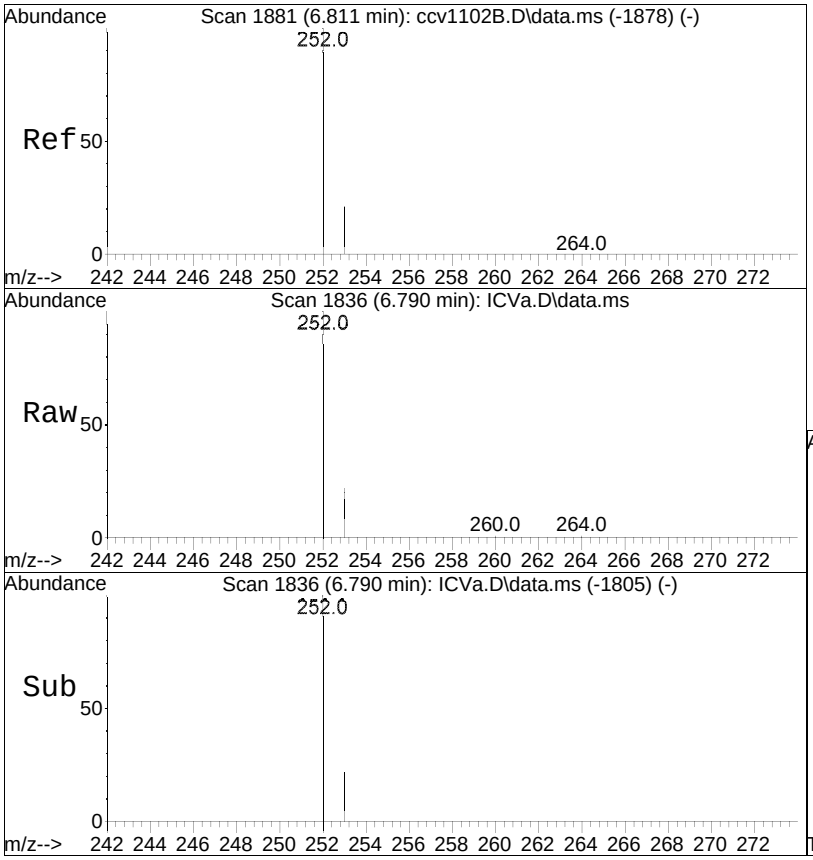


#37
Benzo[b]fluoranthene
Concen: 1079.39 ng/ml
RT: 6.768 min Scan# 1829
Delta R.T. -0.007 min
Lab File: ICVa.D
Acq: 13 Dec 2023 07:30 am

Tgt Ion:252 Resp: 6921

Ion	Ratio	Lower	Upper
252	100		
253	21.4	17.1	25.7

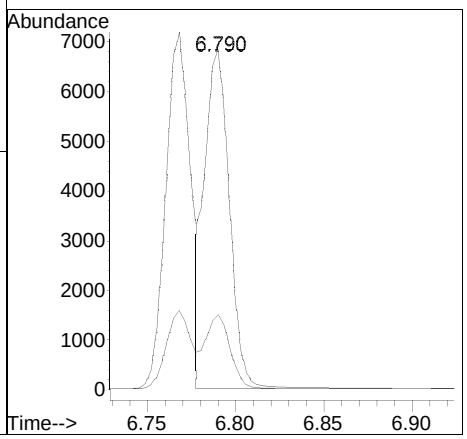


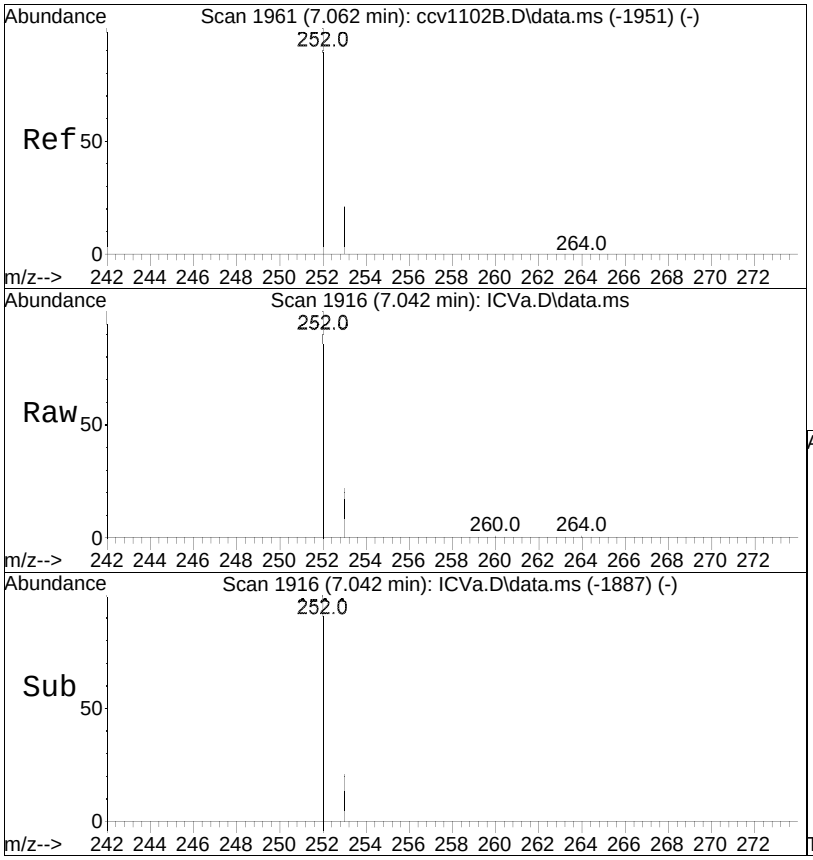


#38
Benzo[k]fluoranthene
Concen: 1099.56 ng/ml
RT: 6.790 min Scan# 1836
Delta R.T. -0.004 min
Lab File: ICVa.D
Acq: 13 Dec 2023 07:30 am

Tgt Ion:252 Resp: 6561

Ion	Ratio	Lower	Upper
252	100		
253	21.8	17.3	25.9

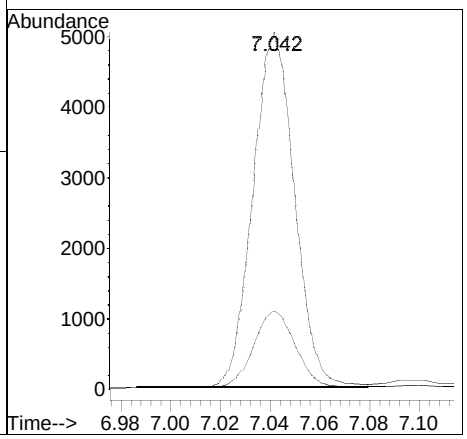


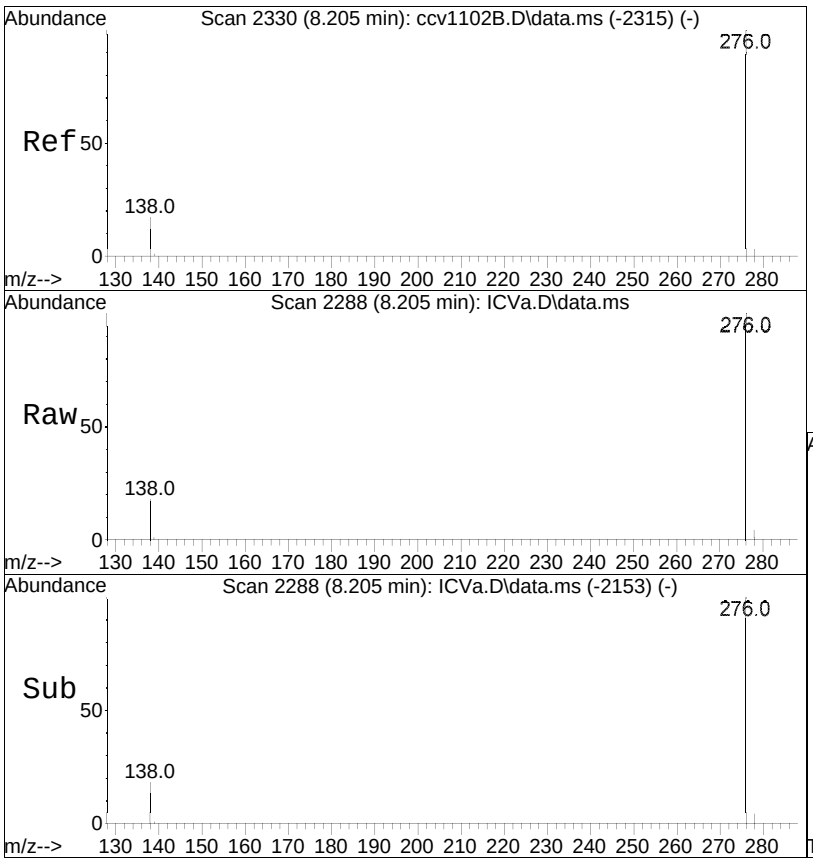


#39
Benzo[a]pyrene
Concen: 1019.97 ng/ml
RT: 7.042 min Scan# 1916
Delta R.T. -0.007 min
Lab File: ICVa.D
Acq: 13 Dec 2023 07:30 am

Tgt Ion:252 Resp: 5759

Ion	Ratio	Lower	Upper
252	100		
253	21.5	17.3	25.9

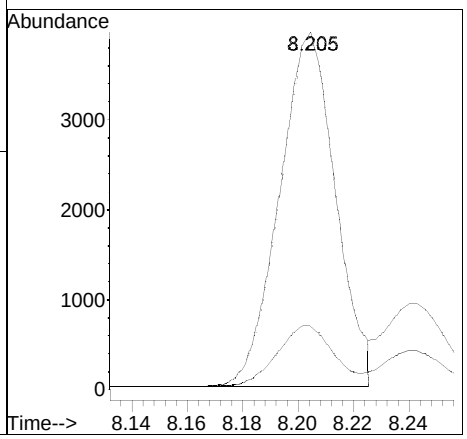


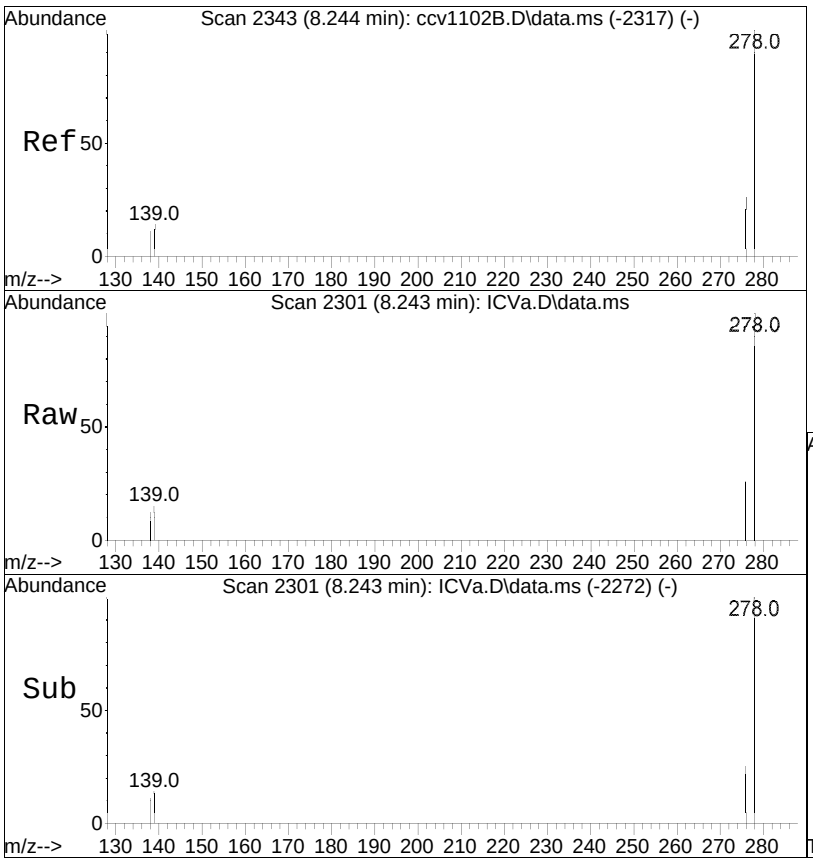


#40
Indeno[1,2,3-cd]pyrene
Concen: 974.35 ng/ml
RT: 8.205 min Scan# 2288
Delta R.T. -0.009 min
Lab File: ICVa.D
Acq: 13 Dec 2023 07:30 am

Tgt Ion:276 Resp: 5501

Ion	Ratio	Lower	Upper
276	100		
138	17.3	13.4	20.2

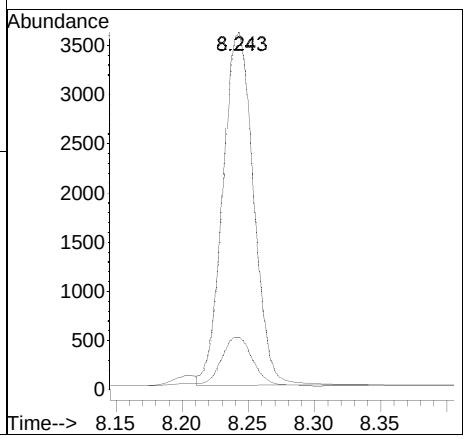


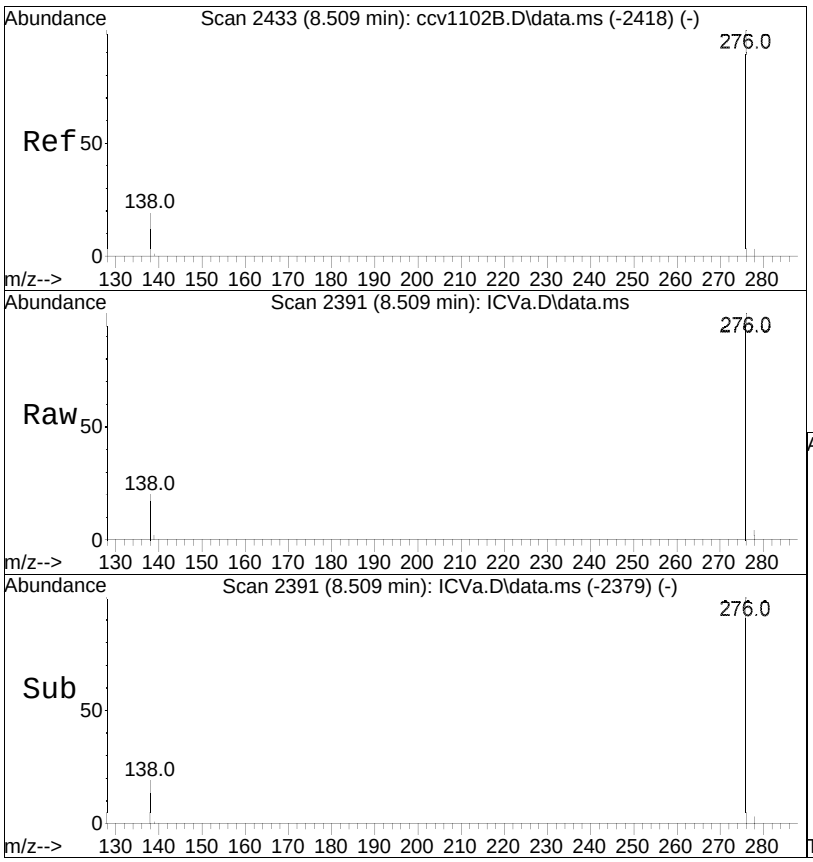


#41
Dibenzo[a,h]anthracene
Concen: 1049.16 ng/ml
RT: 8.243 min Scan# 2301
Delta R.T. -0.013 min
Lab File: ICVa.D
Acq: 13 Dec 2023 07:30 am

Tgt Ion:278 Resp: 5753

Ion	Ratio	Lower	Upper
278	100		
139	15.2	10.9	16.3

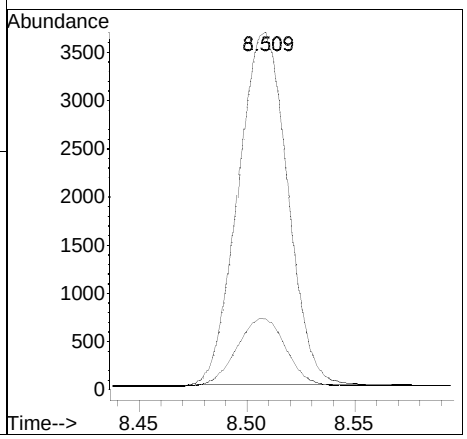




#42
Benzo[g,h,i]perylene
Concen: 977.44 ng/ml
RT: 8.509 min Scan# 2391
Delta R.T. -0.015 min
Lab File: ICVa.D
Acq: 13 Dec 2023 07:30 am

Tgt Ion:276 Resp: 5736

Ion	Ratio	Lower	Upper
276	100		
138	19.3	14.8	22.2

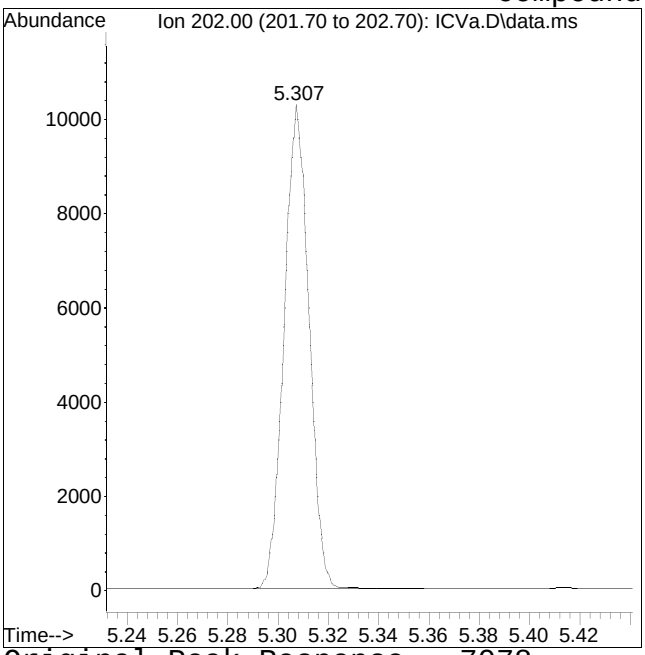


Manual Integration Report

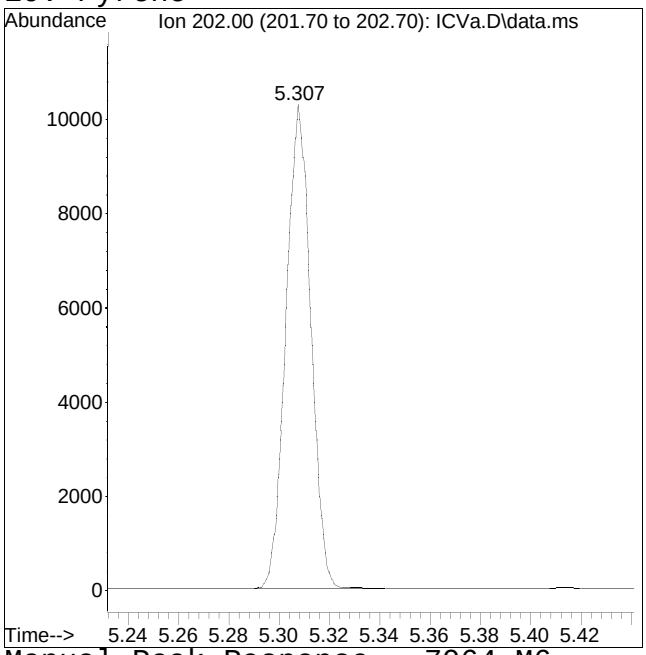
Data Path : I:\8270SIM\SV128\231211LVIQ
Data File : ICVa.D
Date Inj'd : 12/13/2023 7:30 am
Sample : CQICV,32,, 1.0 Lot#10193

Method : SIM-LVI_231211_sv128.M
Operator : SV128:dv
Instrument : SV128
Quant Date : 12/15/2023 2:49 pm

Compound #29: Pyrene



Original Peak Response = 7078



Manual Peak Response = 7064 M6

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

Evaluate Relative Error Report SV128

Method Path : I:\8270SIM\SV128\231211LVIical\
Method File : SIM-LVI_231211_sv128.M
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Fri Dec 15 14:46:27 2023

	COMPOUND	CalFit	Units	TrueMid	MidConc	%RE	TrueLow	LowConc	%RE
15 T	2,6-Dinitrotoluene	Q	ng/ml	1000.0	960.739	-3.9	50.00	60.971	21.9
19 T	2,4-Dinitrotoluene	Q	ng/ml	1000.0	938.996	-6.1	50.00	61.942	23.9
23 T	4,6-Dinitro-o-cresol	L	ng/ml	1000.0	872.974	-12.7	100.00	122.436	22.4
25 T	Pentachlorophenol	Q	ng/ml	1000.0	1032.686	3.3	25.00	30.617	22.5
32 T	Benzo[a]anthracene	L	ng/ml	1000.0	985.139	-1.5	10.00	11.804	18.0
33 T	3,3'-Dichlorobenzidine	L	ng/ml	1000.0	914.437	-8.6	50.00	56.469	12.9
35 T	Bis(2-ethylhexyl)phthalate	Q	ng/ml	1000.0	868.853	-13.1	100.00	120.644	20.6

Calibration Correlation Report

	COMPOUND	CalFit	CoefOfDet	QuadTerm	LinTerm	Constant
15 T	2,6-Dinitrotoluene	Quadratic	0.999696	0.004409	0.129334	-0.000937941
19 T	2,4-Dinitrotoluene	Quadratic	0.999553	0.007782	0.304686	-0.00240833
23 T	4,6-Dinitro-o-cresol	Linear	0.998918	0.000000	0.0835668	-0.00130756
25 T	Pentachlorophenol	Quadratic	0.999367	0.029885	0.104939	-0.00039882
32 T	Benzo[a]anthracene	Linear	0.999858	0.000000	1.434	0.00234217
33 T	3,3'-Dichlorobenzidine	Linear	0.999682	0.000000	0.573715	-0.00252584
35 T	Bis(2-ethylhexyl)phthalate	Quadratic	0.999239	0.021999	0.73731	-0.00969992

Continuing Calibration

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Alpha Geoscience	**Lab Number**	: L2410579		
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116		
Instrument ID	: SV128	**Calibration Date**	: 03/03/24 07:58		
Lab File ID	: CCV0303	**Init. Calib. Date(s)**	: 12/11/23	12/13/23	
Sample No	: WG1891581-3	**Init. Calib. Times**	: 13:27	07:14	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,4-Dichlorobenzene-d4	1	1	.05	0	20	89	0
2-Fluorophenol	1.007	1.022	.05	-1.5	20	85	0
Phenol-d6	1.177	1.276	.05	-8.4	20	91	0
Bis(2-chloroethyl)ether	1.005	1.046	.05	-4.1	20	91	0
n-nitrosodi-n-propylamine	0.702	0.719	.05	-2.4	20	86	0
Hexachloroethane	0.478	0.472	.05	1.3	20	85	0
Nitrobenzene-d5	0.951	1.137	.05	-19.6	20	99	0
Naphthalene-d8	1	1	.05	0	20	89	0
Naphthalene	1.026	1.033	.05	-0.7	20	87	0
Hexachlorobutadiene	0.235	0.236	.05	-0.4	20	89	0
2-Methylnaphthalene	0.655	0.692	.05	-5.6	20	89	0
1-Methylnaphthalene	0.617	0.658	.05	-6.6	20	90	0
2-Fluorobiphenyl	0.848	0.932	.05	-9.9	20	91	0
2-Chloronaphthalene	0.713	0.761	.05	-6.7	20	89	0
2,6-Dinitrotoluene	1000	1328.905	.05	-32.9*	20	124	0
Acenaphthylene	1.057	1.163	.05	-10	20	90	0
Acenaphthene-d10	1	1	.05	0	20	94	0
Acenaphthene	1.352	1.345	.05	0.5	20	91	0
2,4-Dinitrotoluene	1000	1285.041	.05	-28.5*	20	131	0
Fluorene	1.365	1.452	.05	-6.4	20	94	0
2,4,6-Tribromophenol	0.2	0.243	.05	-21.5*	20	108	0
Phenanthrene-d10	1	1	.05	0	20	97	0
4,6-Dinitro-o-cresol	1000	1105.449	.05	-10.5	20	125	0
Hexachlorobenzene	0.266	0.248	.05	6.8	20	91	0
Pentachlorophenol	1000	962.628	.05	3.7	20	90	0
Phenanthrene	1.082	1.025	.05	5.3	20	91	0
Anthracene	1.045	1.077	.05	-3.1	20	98	0
Fluoranthene	1.188	1.256	.05	-5.7	20	97	0
Pyrene	1.23	1.34	.05	-8.9	20	97	0
4-Terphenyl-d14	0.833	0.923	.05	-10.8	20	99	0
Chrysene-d12	1	1	.05	0	20	98	0
Benzo[a]anthracene	1000	951.689	.05	4.8	20	95	0
3,3'-Dichlorobenzidine	1000	902.375	.05	9.8	20	97	0
Chrysene	1.379	1.369	.05	0.7	20	94	0
Bis(2-ethylhexyl)phthalate	1000	961.789	.05	3.8	20	110	0
Perylene-d12	1	1	.05	0	20	90	0
Benzo[b]fluoranthene	1.239	1.236	.05	0.2	20	89	0
Benzo[k]fluoranthene	1.153	1.204	.05	-4.4	20	92	0
Benzo[a]pyrene	1.091	1.121	.05	-2.7	20	89	0
Indeno[1,2,3-cd]pyrene	1.091	1.058	.05	3	20	84	0
Dibenzo[a,h]anthracene	1.059	1.087	.05	-2.6	20	84	0
Benzo[g,h,i]perylene	1.134	1.047	.05	7.7	20	77	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Alpha Geoscience	**Lab Number**	: L2410579		
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116		
Instrument ID	: SV119	**Calibration Date**	: 03/04/24 07:40		
Lab File ID	: CCV0304	**Init. Calib. Date(s)**	: 12/07/23	12/07/23	
Sample No	: WG1891805-3	**Init. Calib. Times**	: 13:10	15:42	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,4-Dichlorobenzene-d4	1	1	.05	0	20	88	0
2-Fluorophenol	1.094	1.209	.05	-10.5	20	90	0
Phenol-d6	1.311	1.384	.05	-5.6	20	91	0
Bis(2-chloroethyl)ether	1.115	1.153	.05	-3.4	20	90	0
n-nitrosodi-n-propylamine	0.667	0.678	.05	-1.6	20	86	0
Hexachloroethane	0.495	0.514	.05	-3.8	20	90	0
Nitrobenzene-d5	0.995	1.071	.05	-7.6	20	90	0
Naphthalene-d8	1	1	.05	0	20	86	0
Naphthalene	0.955	0.995	.05	-4.2	20	85	0
Hexachlorobutadiene	0.206	0.232	.05	-12.6	20	92	0
2-Methylnaphthalene	0.706	0.707	.05	-0.1	20	81	0
1-Methylnaphthalene	0.651	0.639	.05	1.8	20	81	0
2-Fluorobiphenyl	0.893	0.869	.05	2.7	20	80	0
2-Chloronaphthalene	0.752	0.739	.05	1.7	20	82	0
2,6-Dinitrotoluene	0.17	0.169	.05	0.6	20	83	0
Acenaphthylene	1.118	1.113	.05	0.4	20	80	0
Acenaphthene-d10	1	1	.05	0	20	84	0
Acenaphthene	1.237	1.258	.05	-1.7	20	80	0
2,4-Dinitrotoluene	0.369	0.394	.05	-6.8	20	82	0
Fluorene	1.478	1.492	.05	-0.9	20	79	0
2,4,6-Tribromophenol	0.221	0.227	.05	-2.7	20	79	0
Phenanthrene-d10	1	1	.05	0	20	81	0
4,6-Dinitro-o-cresol	1000	827.925	.05	17.2	20	71	0
Hexachlorobenzene	0.259	0.252	.05	2.7	20	75	0
Pentachlorophenol	1000	725.011	.05	27.5*	20	61	0
Phenanthrene	1.016	1.007	.05	0.9	20	76	0
Anthracene	1.008	1.025	.05	-1.7	20	78	0
Fluoranthene	1.339	1.287	.05	3.9	20	73	0
Pyrene	1.376	1.325	.05	3.7	20	74	0
4-Terphenyl-d14	0.981	0.761	.05	22.4*	20	61	0
Chrysene-d12	1	1	.05	0	20	69	0
Benzo[a]anthracene	1000	1090.528	.05	-9.1	20	68	0
3,3'-Dichlorobenzidine	0.604	0.572	.05	5.3	20	63	0
Chrysene	1.32	1.412	.05	-7	20	71	0
Bis(2-ethylhexyl)phthalate	1000	819.991	.05	18	20	67	0
Perylene-d12	1	1	.05	0	20	64	0
Benzo[b]fluoranthene	1.397	1.455	.05	-4.2	20	62	0
Benzo[k]fluoranthene	1.327	1.405	.05	-5.9	20	66	0
Benzo[a]pyrene	1.23	1.315	.05	-6.9	20	65	0
Indeno[1,2,3-cd]pyrene	1.337	1.342	.05	-0.4	20	61	0
Dibenzo[a,h]anthracene	1.244	1.185	.05	4.7	20	58	0
Benzo[g,h,i]perylene	1.36	1.328	.05	2.4	20	60	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Alpha Geoscience	**Lab Number**	: L2410579		
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116		
Instrument ID	: SV119	**Calibration Date**	: 03/05/24 06:33		
Lab File ID	: CCV0305	**Init. Calib. Date(s)**	: 12/07/23	12/07/23	
Sample No	: WG1892203-3	**Init. Calib. Times**	: 13:10	15:42	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,4-Dichlorobenzene-d4	1	1	.05	0	20	82	0
2-Fluorophenol	1.094	1.197	.05	-9.4	20	83	0
Phenol-d6	1.311	1.379	.05	-5.2	20	84	0
Bis(2-chloroethyl)ether	1.115	1.152	.05	-3.3	20	83	0
n-nitrosodi-n-propylamine	0.667	0.703	.05	-5.4	20	83	0
Hexachloroethane	0.495	0.52	.05	-5.1	20	84	0
Nitrobenzene-d5	0.995	1.089	.05	-9.4	20	84	0
Naphthalene-d8	1	1	.05	0	20	80	0
Naphthalene	0.955	0.991	.05	-3.8	20	80	0
Hexachlorobutadiene	0.206	0.237	.05	-15	20	88	0
2-Methylnaphthalene	0.706	0.72	.05	-2	20	77	0
1-Methylnaphthalene	0.651	0.644	.05	1.1	20	77	0
2-Fluorobiphenyl	0.893	0.901	.05	-0.9	20	77	0
2-Chloronaphthalene	0.752	0.756	.05	-0.5	20	79	0
2,6-Dinitrotoluene	0.17	0.186	.05	-9.4	20	86	0
Acenaphthylene	1.118	1.158	.05	-3.6	20	78	0
Acenaphthene-d10	1	1	.05	0	20	81	0
Acenaphthene	1.237	1.261	.05	-1.9	20	78	0
2,4-Dinitrotoluene	0.369	0.435	.05	-17.9	20	88	0
Fluorene	1.478	1.522	.05	-3	20	78	0
2,4,6-Tribromophenol	0.221	0.246	.05	-11.3	20	84	0
Phenanthrene-d10	1	1	.05	0	20	83	0
4,6-Dinitro-o-cresol	1000	986.317	.05	1.4	20	88	0
Hexachlorobenzene	0.259	0.255	.05	1.5	20	78	0
Pentachlorophenol	1000	777.078	.05	22.3*	20	67	0
Phenanthrene	1.016	1.022	.05	-0.6	20	79	0
Anthracene	1.008	1.034	.05	-2.6	20	80	0
Fluoranthene	1.339	1.392	.05	-4	20	80	0
Pyrene	1.376	1.438	.05	-4.5	20	82	0
4-Terphenyl-d14	0.981	0.853	.05	13	20	69	0
Chrysene-d12	1	1	.05	0	20	80	0
Benzo[a]anthracene	1000	1124.001	.05	-12.4	20	82	0
3,3'-Dichlorobenzidine	0.604	0.618	.05	-2.3	20	79	0
Chrysene	1.32	1.413	.05	-7	20	83	0
Bis(2-ethylhexyl)phthalate	1000	957.264	.05	4.3	20	92	0
Perylene-d12	1	1	.05	0	20	78	0
Benzo[b]fluoranthene	1.397	1.486	.05	-6.4	20	77	0
Benzo[k]fluoranthene	1.327	1.445	.05	-8.9	20	82	0
Benzo[a]pyrene	1.23	1.364	.05	-10.9	20	81	0
Indeno[1,2,3-cd]pyrene	1.337	1.434	.05	-7.3	20	78	0
Dibenzo[a,h]anthracene	1.244	1.266	.05	-1.8	20	75	0
Benzo[g,h,i]perylene	1.36	1.368	.05	-0.6	20	74	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Alpha Geoscience	**Lab Number**	: L2410579		
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116		
Instrument ID	: SV128	**Calibration Date**	: 03/05/24 06:57		
Lab File ID	: CCV0305A	**Init. Calib. Date(s)**	: 12/11/23	12/13/23	
Sample No	: WG1892213-3	**Init. Calib. Times**	: 13:27	07:14	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,4-Dichlorobenzene-d4	1	1	.05	0	20	52	0
2-Fluorophenol	1.007	0.966	.05	4.1	20	48	0
Phenol-d6	1.177	1.296	.05	-10.1	20	55	0
Bis(2-chloroethyl)ether	1.005	1.094	.05	-8.9	20	56	0
n-nitrosodi-n-propylamine	0.702	0.78	.05	-11.1	20	55	0
Hexachloroethane	0.478	0.463	.05	3.1	20	49	0
Nitrobenzene-d5	0.951	1.199	.05	-26.1*	20	62	0
Naphthalene-d8	1	1	.05	0	20	56	0
Naphthalene	1.026	1.033	.05	-0.7	20	55	0
Hexachlorobutadiene	0.235	0.227	.05	3.4	20	55	0
2-Methylnaphthalene	0.655	0.723	.05	-10.4	20	59	0
1-Methylnaphthalene	0.617	0.672	.05	-8.9	20	59	0
2-Fluorobiphenyl	0.848	0.989	.05	-16.6	20	62	0
2-Chloronaphthalene	0.713	0.828	.05	-16.1	20	62	0
2,6-Dinitrotoluene	1000	1588.617	.05	-58.9*	20	95	0
Acenaphthylene	1.057	1.261	.05	-19.3	20	62	0
Acenaphthene-d10	1	1	.05	0	20	67	0
Acenaphthene	1.352	1.332	.05	1.5	20	64	0
2,4-Dinitrotoluene	1000	1360.545	.05	-36.1*	20	98	0
Fluorene	1.365	1.51	.05	-10.6	20	69	0
2,4,6-Tribromophenol	0.2	0.257	.05	-28.5*	20	80	0
Phenanthrene-d10	1	1	.05	0	20	78	0
4,6-Dinitro-o-cresol	1000	1167.879	.05	-16.8	20	107	0
Hexachlorobenzene	0.266	0.244	.05	8.3	20	72	0
Pentachlorophenol	1000	1028.447	.05	-2.8	20	78	0
Phenanthrene	1.082	1.042	.05	3.7	20	75	0
Anthracene	1.045	1.03	.05	1.4	20	75	0
Fluoranthene	1.188	1.345	.05	-13.2	20	84	0
Pyrene	1.23	1.465	.05	-19.1	20	85	0
4-Terphenyl-d14	0.833	1.023	.05	-22.8*	20	89	0
Chrysene-d12	1	1	.05	0	20	96	0
Benzo[a]anthracene	1000	922.507	.05	7.7	20	90	0
3,3'-Dichlorobenzidine	1000	843.538	.05	15.6	20	88	0
Chrysene	1.379	1.37	.05	0.7	20	92	0
Bis(2-ethylhexyl)phthalate	1000	806.686	.05	19.3	20	89	0
Perylene-d12	1	1	.05	0	20	92	0
Benzo[b]fluoranthene	1.239	1.231	.05	0.6	20	90	0
Benzo[k]fluoranthene	1.153	1.184	.05	-2.7	20	92	0
Benzo[a]pyrene	1.091	1.092	.05	-0.1	20	89	0
Indeno[1,2,3-cd]pyrene	1.091	1.144	.05	-4.9	20	93	0
Dibenzo[a,h]anthracene	1.059	1.136	.05	-7.3	20	90	0
Benzo[g,h,i]perylene	1.134	1.127	.05	0.6	20	85	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Alpha Geoscience	**Lab Number**	: L2410579		
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116		
Instrument ID	: SV119	**Calibration Date**	: 03/05/24 21:16		
Lab File ID	: CCV0305N	**Init. Calib. Date(s)**	: 12/07/23	12/07/23	
Sample No	: WG1892573-3	**Init. Calib. Times**	: 13:10	15:42	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,4-Dichlorobenzene-d4	1	1	.05	0	20	87	0
2-Fluorophenol	1.094	1.149	.05	-5	20	85	0
Phenol-d6	1.311	1.357	.05	-3.5	20	88	0
Bis(2-chloroethyl)ether	1.115	1.12	.05	-0.4	20	87	0
n-nitrosodi-n-propylamine	0.667	0.708	.05	-6.1	20	89	0
Hexachloroethane	0.495	0.496	.05	-0.2	20	86	0
Nitrobenzene-d5	0.995	1.105	.05	-11.1	20	92	0
Naphthalene-d8	1	1	.05	0	20	88	0
Naphthalene	0.955	0.957	.05	-0.2	20	84	0
Hexachlorobutadiene	0.206	0.221	.05	-7.3	20	89	0
2-Methylnaphthalene	0.706	0.704	.05	0.3	20	82	0
1-Methylnaphthalene	0.651	0.629	.05	3.4	20	81	0
2-Fluorobiphenyl	0.893	0.868	.05	2.8	20	81	0
2-Chloronaphthalene	0.752	0.739	.05	1.7	20	84	0
2,6-Dinitrotoluene	0.17	0.19	.05	-11.8	20	95	0
Acenaphthylene	1.118	1.132	.05	-1.3	20	84	0
Acenaphthene-d10	1	1	.05	0	20	90	0
Acenaphthene	1.237	1.214	.05	1.9	20	84	0
2,4-Dinitrotoluene	0.369	0.441	.05	-19.5	20	99	0
Fluorene	1.478	1.492	.05	-0.9	20	85	0
2,4,6-Tribromophenol	0.221	0.244	.05	-10.4	20	92	0
Phenanthrene-d10	1	1	.05	0	20	95	0
4,6-Dinitro-o-cresol	1000	1010.711	.05	-1.1	20	104	0
Hexachlorobenzene	0.259	0.244	.05	5.8	20	86	0
Pentachlorophenol	1000	826.978	.05	17.3	20	82	0
Phenanthrene	1.016	0.982	.05	3.3	20	88	0
Anthracene	1.008	0.978	.05	3	20	87	0
Fluoranthene	1.339	1.333	.05	0.4	20	89	0
Pyrene	1.376	1.368	.05	0.6	20	91	0
4-Terphenyl-d14	0.981	0.806	.05	17.8	20	76	0
Chrysene-d12	1	1	.05	0	20	91	0
Benzo[a]anthracene	1000	1066.469	.05	-6.6	20	87	0
3,3'-Dichlorobenzidine	0.604	0.602	.05	0.3	20	87	0
Chrysene	1.32	1.345	.05	-1.9	20	89	0
Bis(2-ethylhexyl)phthalate	1000	913.333	.05	8.7	20	99	0
Perylene-d12	1	1	.05	0	20	85	0
Benzo[b]fluoranthene	1.397	1.45	.05	-3.8	20	82	0
Benzo[k]fluoranthene	1.327	1.368	.05	-3.1	20	84	0
Benzo[a]pyrene	1.23	1.304	.05	-6	20	85	0
Indeno[1,2,3-cd]pyrene	1.337	1.374	.05	-2.8	20	82	0
Dibenzo[a,h]anthracene	1.244	1.198	.05	3.7	20	77	0
Benzo[g,h,i]perylene	1.36	1.301	.05	4.3	20	77	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Alpha Geoscience	**Lab Number**	: L2410579		
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116		
Instrument ID	: SV119	**Calibration Date**	: 03/06/24 06:56		
Lab File ID	: CCV0306	**Init. Calib. Date(s)**	: 12/07/23	12/07/23	
Sample No	: WG1892736-3	**Init. Calib. Times**	: 13:10	15:42	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,4-Dichlorobenzene-d4	1	1	.05	0	20	105	0
2-Fluorophenol	1.094	1.188	.05	-8.6	20	105	0
Phenol-d6	1.311	1.43	.05	-9.1	20	112	0
Bis(2-chloroethyl)ether	1.115	1.206	.05	-8.2	20	112	0
n-nitrosodi-n-propylamine	0.667	0.772	.05	-15.7	20	116	0
Hexachloroethane	0.495	0.53	.05	-7.1	20	110	0
Nitrobenzene-d5	0.995	1.187	.05	-19.3	20	118	0
Naphthalene-d8	1	1	.05	0	20	107	0
Naphthalene	0.955	0.997	.05	-4.4	20	107	0
Hexachlorobutadiene	0.206	0.233	.05	-13.1	20	115	0
2-Methylnaphthalene	0.706	0.743	.05	-5.2	20	106	0
1-Methylnaphthalene	0.651	0.662	.05	-1.7	20	105	0
2-Fluorobiphenyl	0.893	0.927	.05	-3.8	20	106	0
2-Chloronaphthalene	0.752	0.777	.05	-3.3	20	107	0
2,6-Dinitrotoluene	0.17	0.208	.05	-22.4*	20	128	0
Acenaphthylene	1.118	1.217	.05	-8.9	20	110	0
Acenaphthene-d10	1	1	.05	0	20	110	0
Acenaphthene	1.237	1.278	.05	-3.3	20	107	0
2,4-Dinitrotoluene	0.369	0.477	.05	-29.3*	20	130	0
Fluorene	1.478	1.582	.05	-7	20	110	0
2,4,6-Tribromophenol	0.221	0.262	.05	-18.6	20	120	0
Phenanthrene-d10	1	1	.05	0	20	113	0
4,6-Dinitro-o-cresol	1000	1092.793	.05	-9.3	20	134	0
Hexachlorobenzene	0.259	0.261	.05	-0.8	20	108	0
Pentachlorophenol	1000	934.627	.05	6.5	20	110	0
Phenanthrene	1.016	1.023	.05	-0.7	20	108	0
Anthracene	1.008	1.04	.05	-3.2	20	110	0
Fluoranthene	1.339	1.377	.05	-2.8	20	109	0
Pyrene	1.376	1.401	.05	-1.8	20	110	0
4-Terphenyl-d14	0.981	0.829	.05	15.5	20	92	0
Chrysene-d12	1	1	.05	0	20	100	0
Benzo[a]anthracene	1000	1144.104	.05	-14.4	20	104	0
3,3'-Dichlorobenzidine	0.604	0.645	.05	-6.8	20	103	0
Chrysene	1.32	1.412	.05	-7	20	104	0
Bis(2-ethylhexyl)phthalate	1000	1011.732	.05	-1.2	20	122	0
Perylene-d12	1	1	.05	0	20	89	0
Benzo[b]fluoranthene	1.397	1.604	.05	-14.8	20	95	0
Benzo[k]fluoranthene	1.327	1.435	.05	-8.1	20	93	0
Benzo[a]pyrene	1.23	1.405	.05	-14.2	20	96	0
Indeno[1,2,3-cd]pyrene	1.337	1.455	.05	-8.8	20	91	0
Dibenzo[a,h]anthracene	1.244	1.243	.05	0.1	20	85	0
Benzo[g,h,i]perylene	1.36	1.337	.05	1.7	20	84	0

*** Value outside of QC limits.**

Evaluate Continuing Calibration Report

Data Path : I:\8270SIM\SV128\240303\
Data File : ccv0303.D
Acq On : 03 Mar 2024 07:58 am
Operator : SV128:jjw
Sample : WG1891581-3,32,,ICV 10475 (0303)
Misc : WG1891581,,ical20676
ALS Vial : 49 Sample Multiplier: 1

Quant Time: Mar 03 08:22:28 2024
Quant Method : I:\8270SIM\SV128\240303\SIM-LVI_231211_sv128.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sun Mar 03 08:22:50 2024
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	i	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	89	0.00
2	s	2-Fluorophenol	1.007	1.022	-1.5	85	0.00
3	s	Phenol-d6	1.177	1.276	-8.4	91	0.00
4	T	Bis(2-chloroethyl)ether	1.005	1.046	-4.1	91	0.00
5	T	n-nitrosodi-n-propylamine	0.702	0.719	-2.4	86	0.00
6	t	Hexachloroethane	0.478	0.472	1.3	85	0.00
7	s	Nitrobenzene-d5	0.951	1.137	-19.6	99	0.00
8	i	Naphthalene-d8	1.000	1.000	0.0	89	0.00
9	t	Naphthalene	1.026	1.033	-0.7	87	0.00
10	t	Hexachlorobutadiene	0.235	0.236	-0.4	89	0.00
11	t	2-Methylnaphthalene	0.655	0.692	-5.6	89	0.00
12	t	1-Methylnaphthalene	0.617	0.658	-6.6	90	0.00
13	s	2-Fluorobiphenyl	0.848	0.932	-9.9	91	0.00
14	t	2-Chloronaphthalene	0.713	0.761	-6.7	89	0.00
15	t	2,6-Dinitrotoluene	*1000.000	1328.905	-32.9#	124	0.00
16	t	Acenaphthylene	1.057	1.163	-10.0	90	0.00
17	i	Acenaphthene-d10	1.000	1.000	0.0	94	0.00
18	t	Acenaphthene	1.352	1.345	0.5	91	0.00
19	t	2,4-Dinitrotoluene	*1000.000	1285.041	-28.5#	131	0.00
20	t	Fluorene	1.365	1.452	-6.4	94	0.00
21	s	2,4,6-Tribromophenol	0.200	0.243	-21.5#	108	0.00
22	i	Phenanthrene-d10	1.000	1.000	0.0	97	0.00
23	T	4,6-Dinitro-o-cresol	*1000.000	1105.449	-10.5	125	0.00
24	t	Hexachlorobenzene	0.266	0.248	6.8	91	0.00
25	t	Pentachlorophenol	*1000.000	962.628	3.7	90	0.00
26	t	Phenanthrene	1.082	1.025	5.3	91	0.00
27	t	Anthracene	1.045	1.077	-3.1	98	0.00
28	t	Fluoranthene	1.188	1.256	-5.7	97	0.00
29	t	Pyrene	1.230	1.340	-8.9	97	0.00
30	s	4-Terphenyl-d14	0.833	0.923	-10.8	99	0.00
31	i	Chrysene-d12	1.000	1.000	0.0	98	0.00
32	t	Benzo[a]anthracene	*1000.000	951.689	4.8	95	0.00
33	t	3,3'-Dichlorobenzidine	*1000.000	902.375	9.8	97	0.00
34	t	Chrysene	1.379	1.369	0.7	94	0.00
35	T	Bis(2-ethylhexyl)phthalate	*1000.000	961.789	3.8	110	0.00

Evaluate Continuing Calibration Report

Data Path : I:\8270SIM\SV128\240303\
Data File : ccv0303.D
Acq On : 03 Mar 2024 07:58 am
Operator : SV128:jjw
Sample : WG1891581-3,32,,ICV 10475 (0303)
Misc : WG1891581,,ical20676
ALS Vial : 49 Sample Multiplier: 1

Quant Time: Mar 03 08:22:28 2024
Quant Method : I:\8270SIM\SV128\240303\SIM-LVI_231211_sv128.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sun Mar 03 08:22:50 2024
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
36	i	Perylene-d12	1.000	1.000	0.0	90	0.00
37	t	Benzo[b]fluoranthene	1.239	1.236	0.2	89	0.00
38	t	Benzo[k]fluoranthene	1.153	1.204	-4.4	92	0.00
39	t	Benzo[a]pyrene	1.091	1.121	-2.7	89	0.00
40	t	Indeno[1,2,3-cd]pyrene	1.091	1.058	3.0	84	0.00
41	t	Dibenzo[a,h]anthracene	1.059	1.087	-2.6	84	0.00
42	t	Benzo[g,h,i]perylene	1.134	1.047	7.7	77	0.00

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV128\240303\
Data File : ccv0303.D
Acq On : 03 Mar 2024 07:58 am
Operator : SV128:jjw
Sample : WG1891581-3,32,,ICV 10475 (0303)
Misc : WG1891581,,ical20676
ALS Vial : 49 Sample Multiplier: 1

Quant Time: Mar 03 08:22:28 2024
Quant Method : I:\8270SIM\SV128\240303\SIM-LVI_231211_sv128.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sun Mar 03 08:22:50 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.347	152	2643	4000.000	ng/ml	0.00
8) Naphthalene-d8	3.027	136	9361	4000.000	ng/ml	0.00
17) Acenaphthene-d10	4.031	164	5723	4000.000	ng/ml	0.00
22) Phenanthrene-d10	4.900	188	13127	4000.000	ng/ml	0.00
31) Chrysene-d12	6.536	240	12561	4000.000	ng/ml	0.00
36) Perylene-d12	7.926	264	13889M4	4000.000	ng/ml	0.00
System Monitoring Compounds						
2) 2-Fluorophenol	1.734	112	675	1014.197	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 20.28%			
3) Phenol-d6	2.153	99	843	1083.800	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 21.68%			
7) Nitrobenzene-d5	2.633	82	751M6	1194.739	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 47.79%			
13) 2-Fluorobiphenyl	3.638	172	2182	1099.136	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 43.97%			
21) 2,4,6-Tribromophenol	4.492	330	348M6	1216.838	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 24.34%			
30) 4-Terphenyl-d14	5.841	244	3030	1107.930	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 44.32%			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	2.206	93	691	1040.174	ng/ml	91
5) n-nitrosodi-n-propylamine	2.551	70	475	1024.260	ng/ml	98
6) Hexachloroethane	2.612	117	312	988.441	ng/ml	92
9) Naphthalene	3.036	128	2418	1007.266	ng/ml#	100
10) Hexachlorobutadiene	3.109	225	552	1003.834	ng/ml	100
11) 2-Methylnaphthalene	3.427	142	1619	1055.742	ng/ml	100
12) 1-Methylnaphthalene	3.483	142	1541	1067.063	ng/ml	98
14) 2-Chloronaphthalene	3.705	162	1781	1066.803	ng/ml	99
15) 2,6-Dinitrotoluene	3.906	165	398	1328.905	ng/ml	91
16) Acenaphthylene	3.945	152	2721	1100.244	ng/ml	99
18) Acenaphthene	4.049	153	1924	994.515	ng/ml	100
19) 2,4-Dinitrotoluene	4.143	165	551	1285.041	ng/ml	91
20) Fluorene	4.349	166	2078	1064.283	ng/ml	99
23) 4,6-Dinitro-o-cresol	4.382	198	286	1105.449	ng/ml#	77
24) Hexachlorobenzene	4.676	284	813	930.748	ng/ml	97
25) Pentachlorophenol	4.797	266	349	962.628	ng/ml	98

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV128\240303\
Data File : ccv0303.D
Acq On : 03 Mar 2024 07:58 am
Operator : SV128:jjw
Sample : WG1891581-3,32,,ICV 10475 (0303)
Misc : WG1891581,,ical20676
ALS Vial : 49 Sample Multiplier: 1

Quant Time: Mar 03 08:22:28 2024
Quant Method : I:\8270SIM\SV128\240303\SIM-LVI_231211_sv128.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sun Mar 03 08:22:50 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Phenanthrene	4.912	178	3364	947.689	ng/ml	99
27) Anthracene	4.941	178	3535	1030.638	ng/ml	100
28) Fluoranthene	5.614	202	4123M6	1057.213	ng/ml	
29) Pyrene	5.748	202	4399	1090.224	ng/ml	98
32) Benzo[a]anthracene	6.528	228	4315	951.689	ng/ml	100
33) 3,3'-Dichlorobenzidine	6.514	252	1594	902.375	ng/ml	99
34) Chrysene	6.555	228	4298	992.513	ng/ml	100
35) Bis(2-ethylhexyl)phtha...	6.558	149	2121	961.789	ng/ml#	90
37) Benzo[b]fluoranthene	7.499	252	4291	997.639	ng/ml	100
38) Benzo[k]fluoranthene	7.527	252	4180	1044.313	ng/ml	100
39) Benzo[a]pyrene	7.857	252	3891	1027.316	ng/ml	100
40) Indeno[1,2,3-cd]pyrene	9.327	276	3672	969.568	ng/ml	97
41) Dibenzo[a,h]anthracene	9.368	278	3773M6	1025.738	ng/ml	
42) Benzo[g,h,i]perylene	9.705	276	3635M1	923.401	ng/ml	

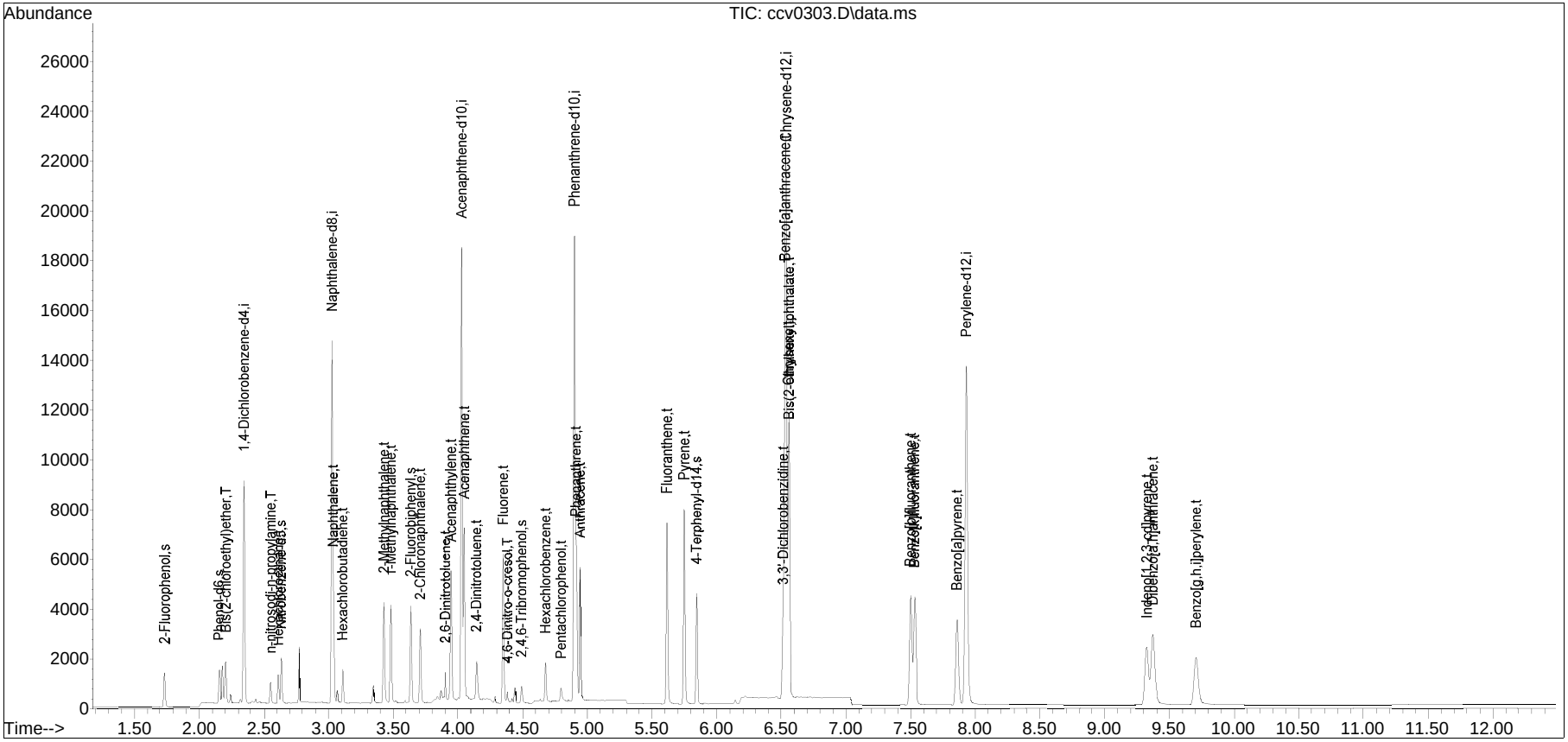
(#) = qualifier out of range (m) = manual integration (+) = signals summed

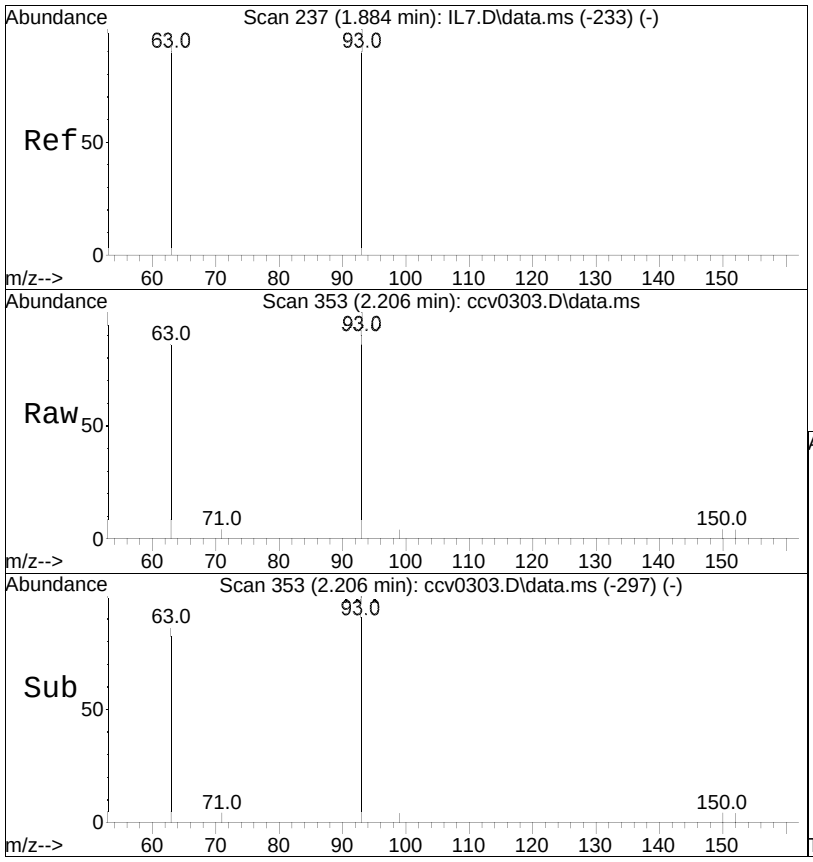
Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV128\240303\
Data File : ccv0303.D
Acq On : 03 Mar 2024 07:58 am
Operator : SV128:jjw
Sample : WG1891581-3,32,,ICV 10475 (0303)
Misc : WG1891581,,ical20676
ALS Vial : 49 Sample Multiplier: 1

Quant Time: Mar 03 08:22:28 2024
Quant Method : I:\8270SIM\SV128\240303\SIM-LVI_231211_sv128.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sun Mar 03 08:22:50 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

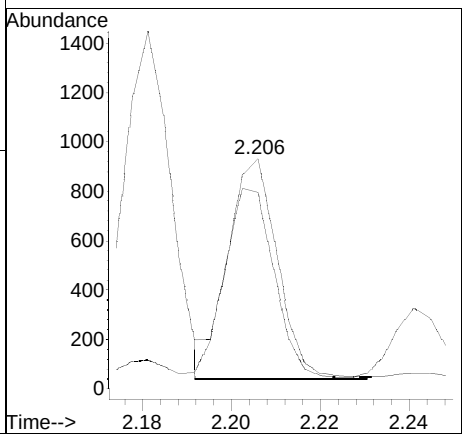


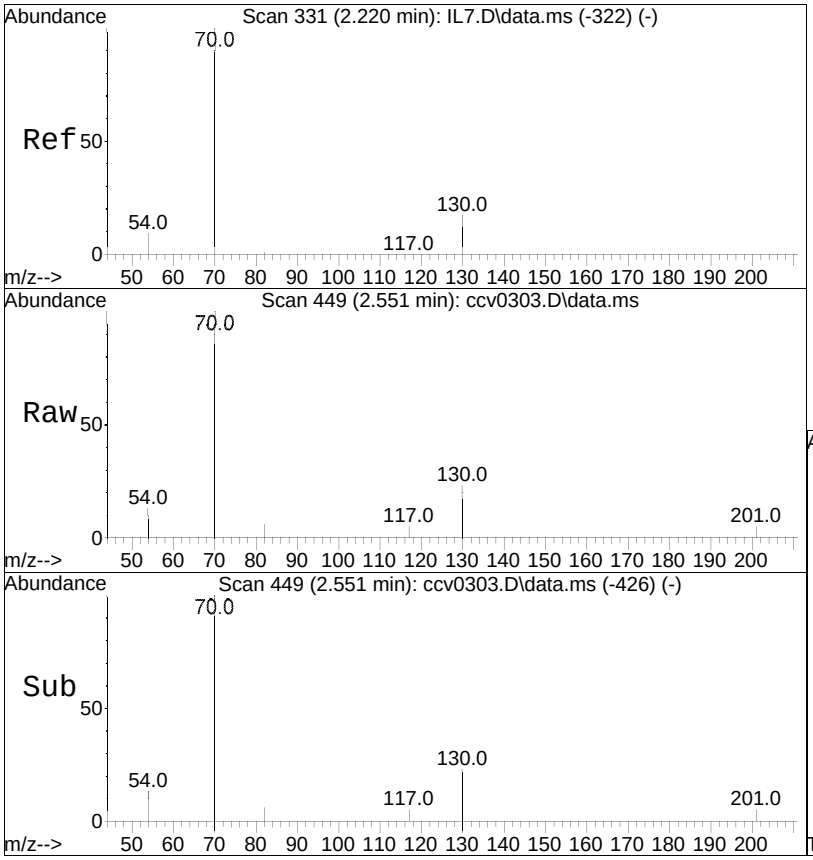


#4
Bis(2-chloroethyl)ether
Concen: 1040.17 ng/ml
RT: 2.206 min Scan# 353
Delta R.T. 0.000 min
Lab File: ccv0303.D
Acq: 03 Mar 2024 07:58 am

Tgt Ion: 93 Resp: 691

Ion	Ratio	Lower	Upper
93	100		
63	87.7	77.3	115.9

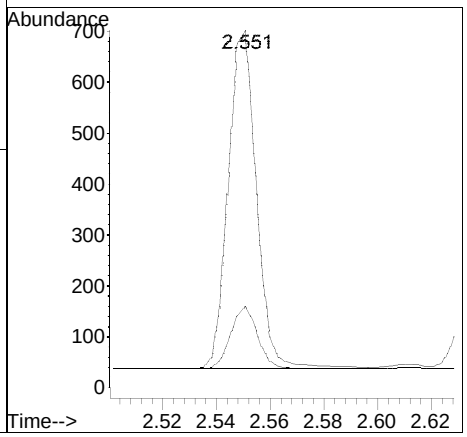


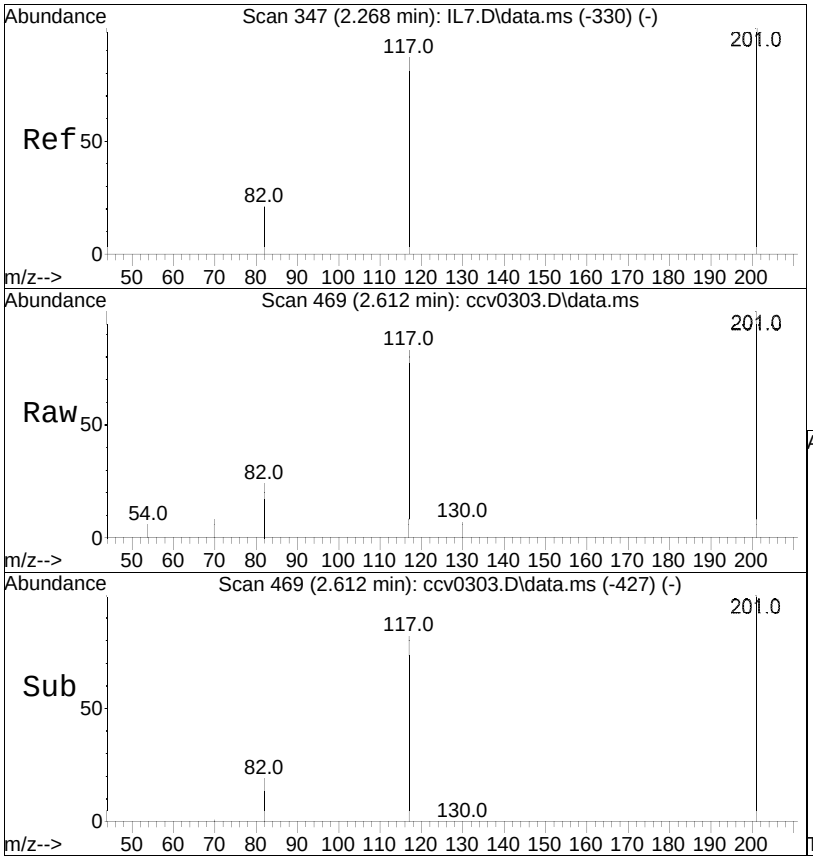


#5
n-nitrosodi-n-propylamine
Concen: 1024.26 ng/ml
RT: 2.551 min Scan# 449
Delta R.T. 0.000 min
Lab File: ccv0303.D
Acq: 03 Mar 2024 07:58 am

Tgt Ion: 70 Resp: 475

Ion	Ratio	Lower	Upper
70	100		
130	17.7	13.6	20.4

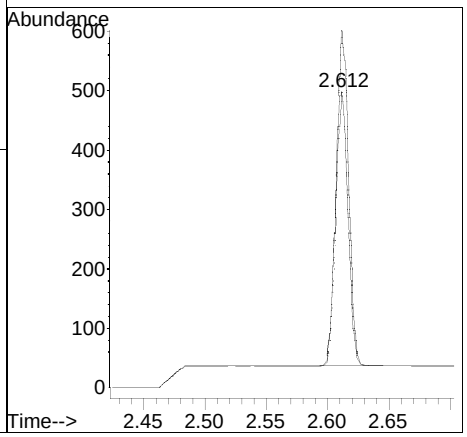


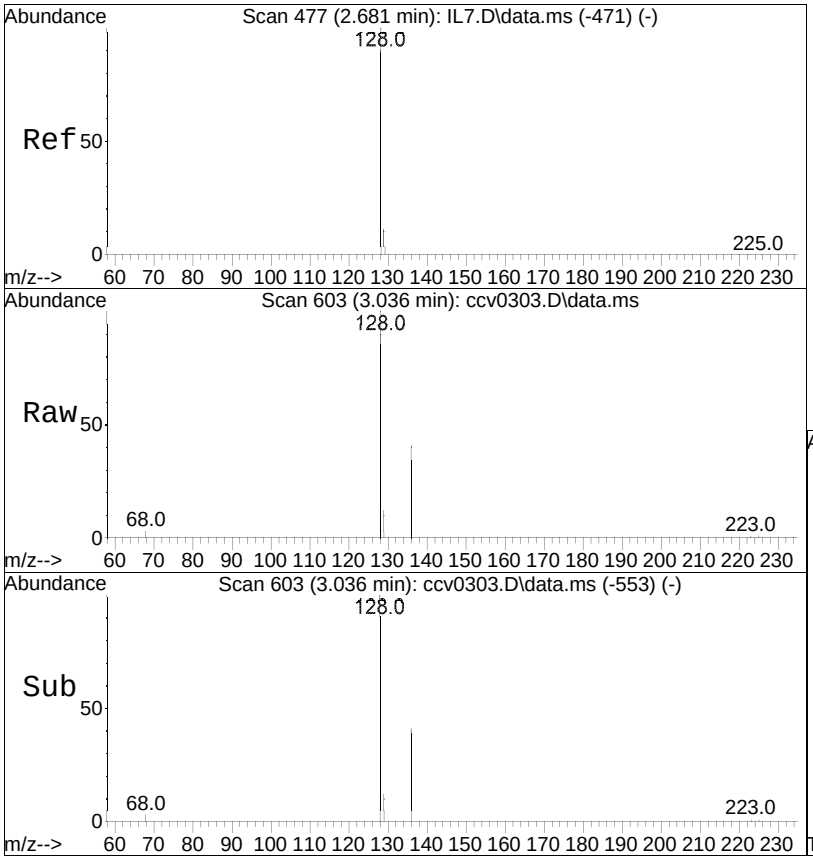


#6
Hexachloroethane
Concen: 988.44 ng/ml
RT: 2.612 min Scan# 469
Delta R.T. 0.000 min
Lab File: ccv0303.D
Acq: 03 Mar 2024 07:58 am

Tgt Ion:117 Resp: 312

Ion	Ratio	Lower	Upper
117	100		
201	123.7	91.8	137.6

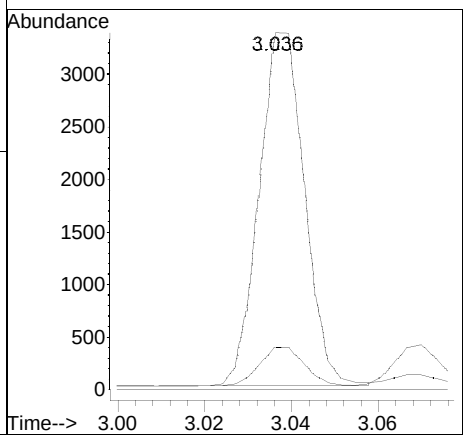


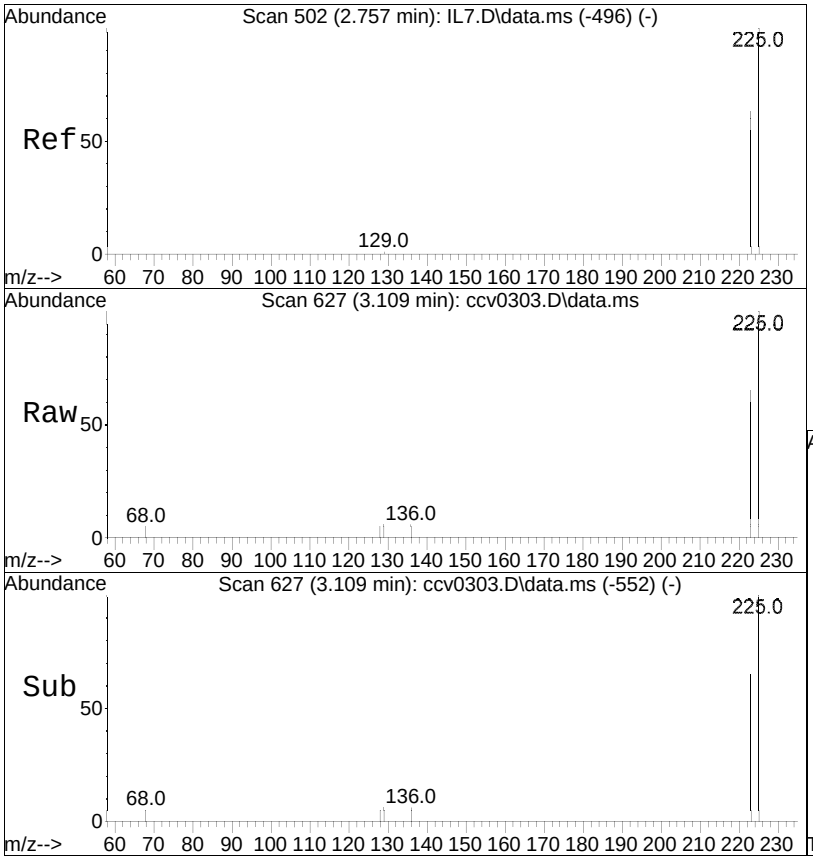


#9
Naphthalene
Concen: 1007.27 ng/ml
RT: 3.036 min Scan# 603
Delta R.T. 0.000 min
Lab File: ccv0303.D
Acq: 03 Mar 2024 07:58 am

Tgt Ion:128 Resp: 2418

Ion	Ratio	Lower	Upper
128	100		
129	10.8	8.8	13.2
127	0.0	0.0	0.0

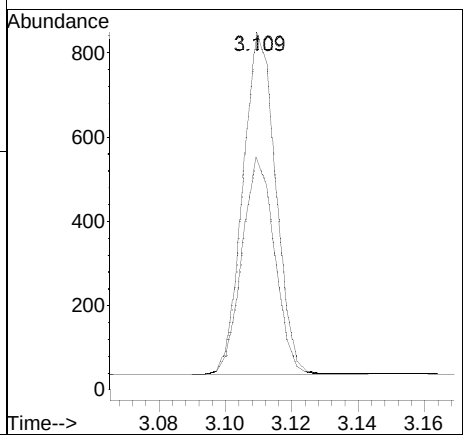


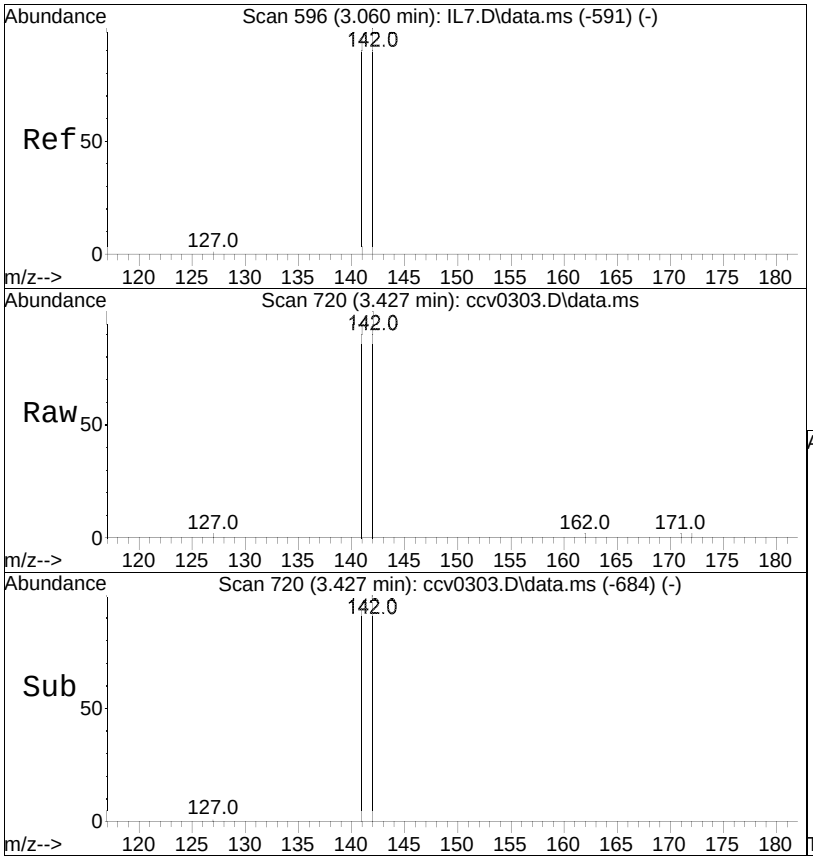


#10
Hexachlorobutadiene
Concen: 1003.83 ng/ml
RT: 3.109 min Scan# 627
Delta R.T. 0.000 min
Lab File: ccv0303.D
Acq: 03 Mar 2024 07:58 am

Tgt Ion:225 Resp: 552

Ion	Ratio	Lower	Upper
225	100		
223	62.7	49.9	74.9

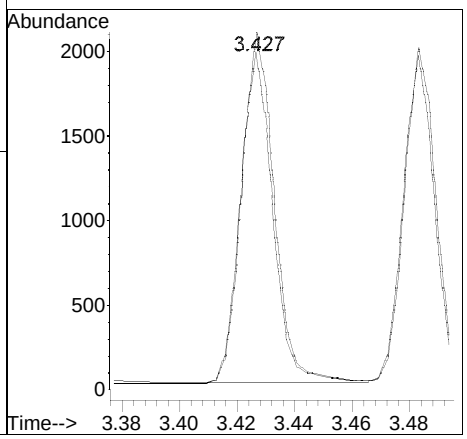


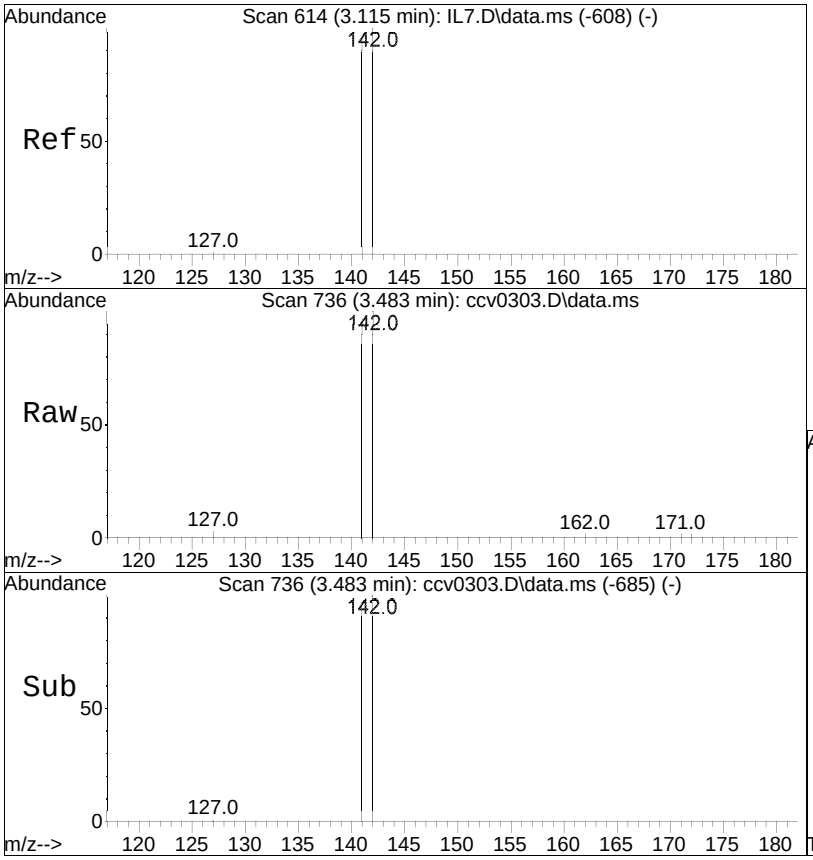


#11
2-Methylnaphthalene
Concen: 1055.74 ng/ml
RT: 3.427 min Scan# 720
Delta R.T. 0.000 min
Lab File: ccv0303.D
Acq: 03 Mar 2024 07:58 am

Tgt Ion:142 Resp: 1619

Ion	Ratio	Lower	Upper
142	100		
141	94.7	75.9	113.9

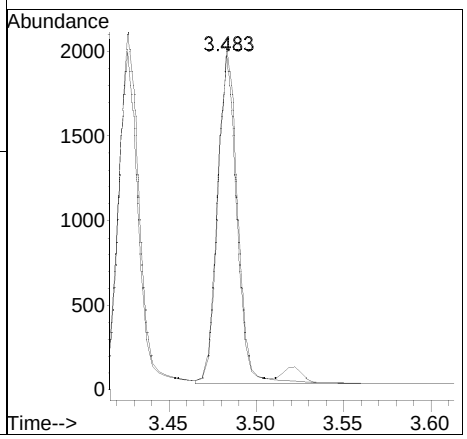


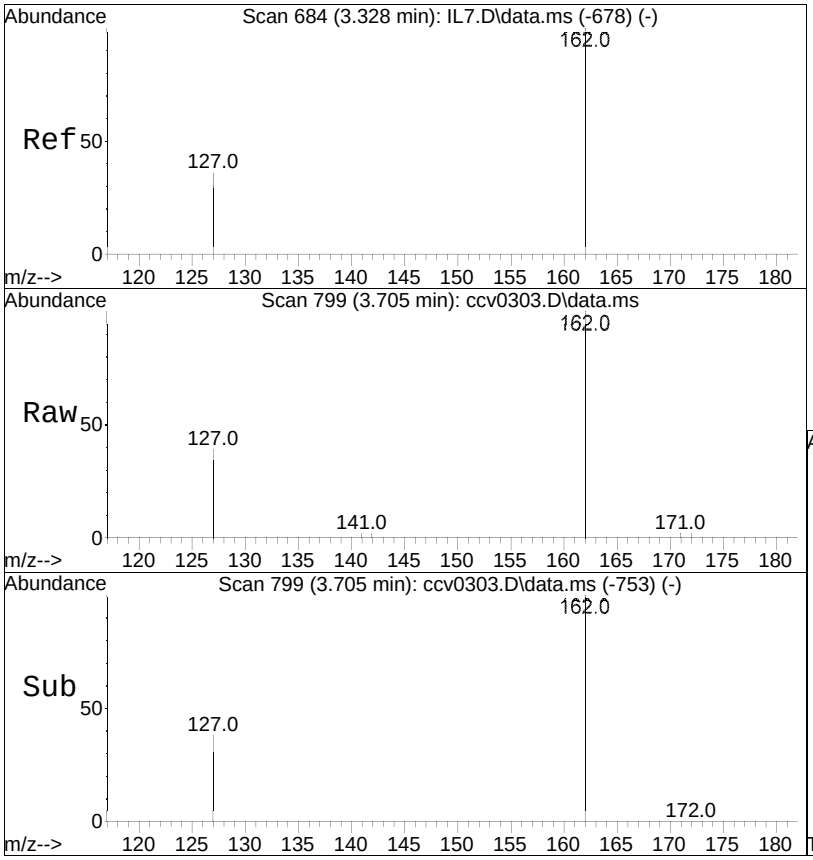


#12
1-Methylnaphthalene
Concen: 1067.06 ng/ml
RT: 3.483 min Scan# 736
Delta R.T. 0.000 min
Lab File: ccv0303.D
Acq: 03 Mar 2024 07:58 am

Tgt Ion:142 Resp: 1541

Ion	Ratio	Lower	Upper
142	100		
141	95.7	77.9	116.9

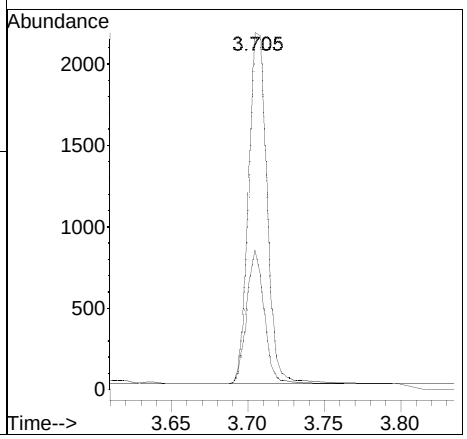


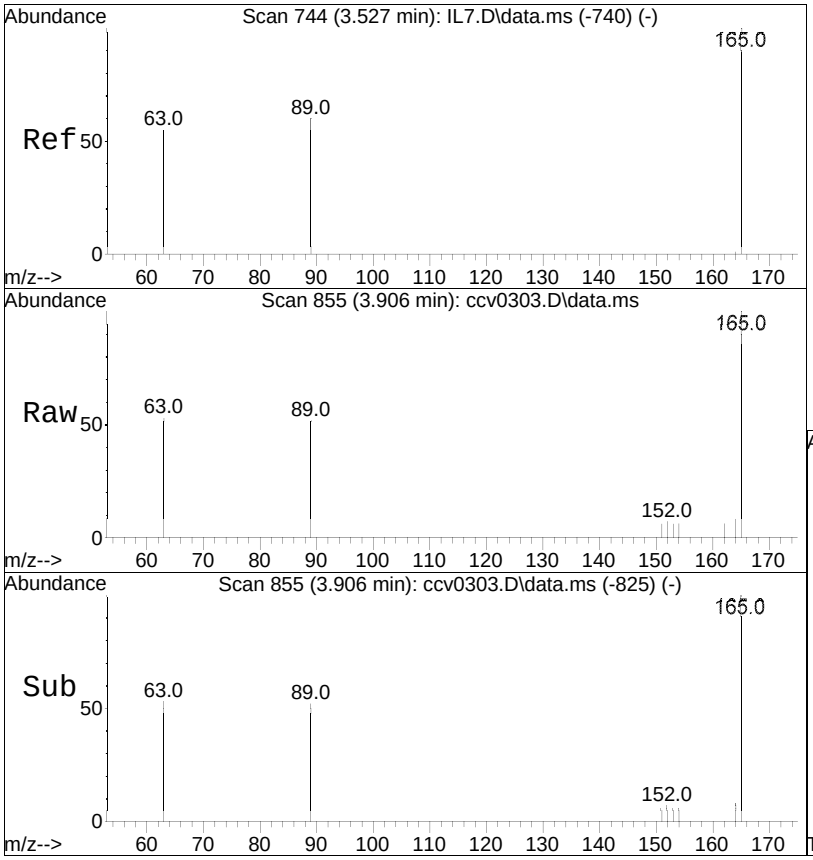


#14
2-Chloronaphthalene
Concen: 1066.80 ng/ml
RT: 3.705 min Scan# 799
Delta R.T. 0.000 min
Lab File: ccv0303.D
Acq: 03 Mar 2024 07:58 am

Tgt Ion:162 Resp: 1781

Ion	Ratio	Lower	Upper
162	100		
127	36.2	29.3	43.9

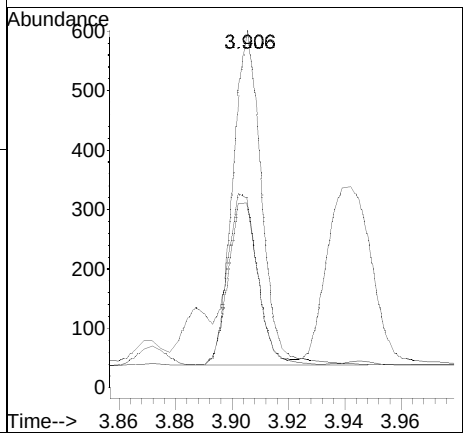


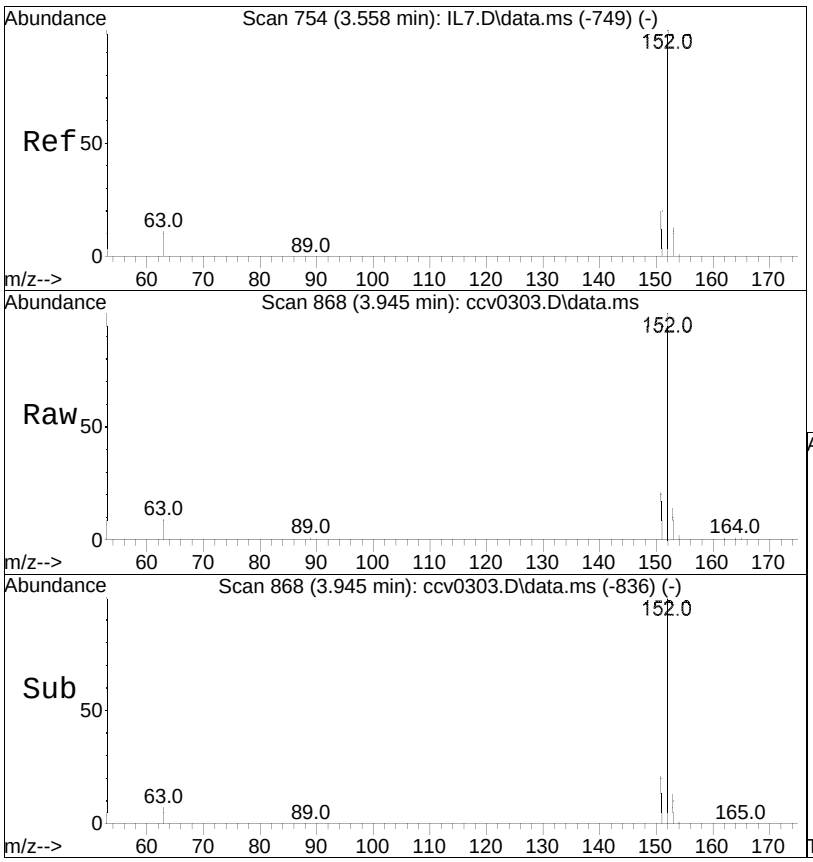


#15
2,6-Dinitrotoluene
Concen: 1328.90 ng/ml
RT: 3.906 min Scan# 855
Delta R.T. 0.000 min
Lab File: ccv0303.D
Acq: 03 Mar 2024 07:58 am

Tgt Ion:165 Resp: 398

Ion	Ratio	Lower	Upper
165	100		
89	52.3	46.6	70.0
63	52.8	47.8	71.8

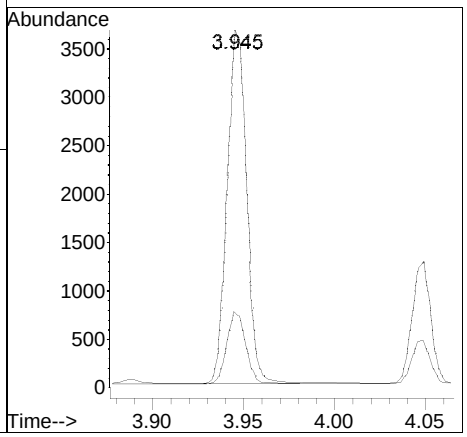


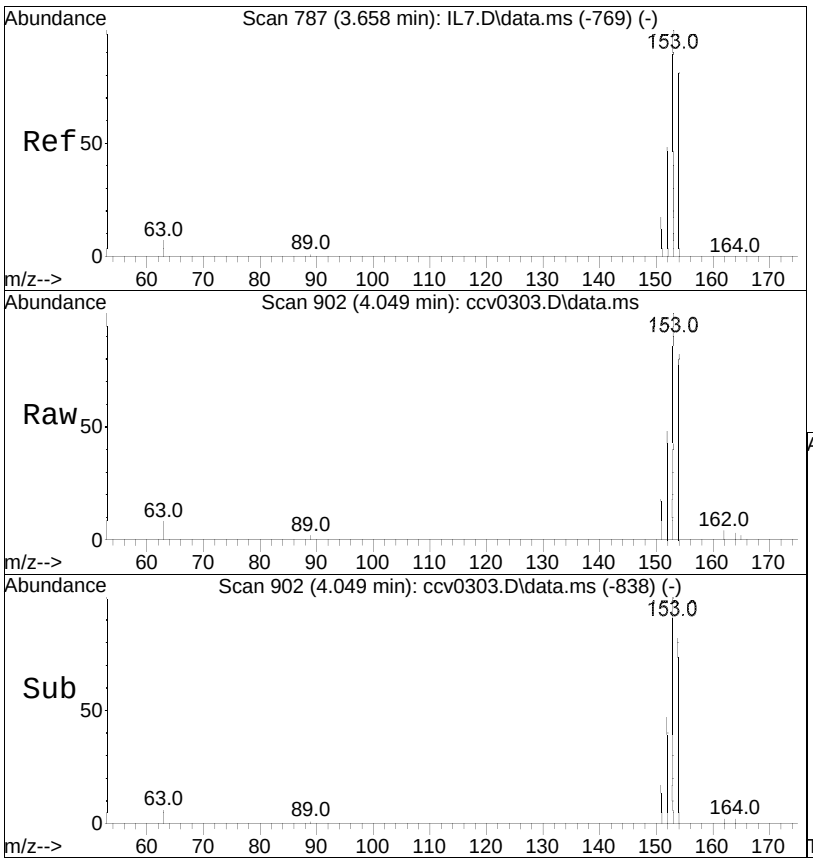


#16
Acenaphthylene
Concen: 1100.24 ng/ml
RT: 3.945 min Scan# 868
Delta R.T. 0.000 min
Lab File: ccv0303.D
Acq: 03 Mar 2024 07:58 am

Tgt Ion:152 Resp: 2721

Ion	Ratio	Lower	Upper
152	100		
151	20.1	16.4	24.6

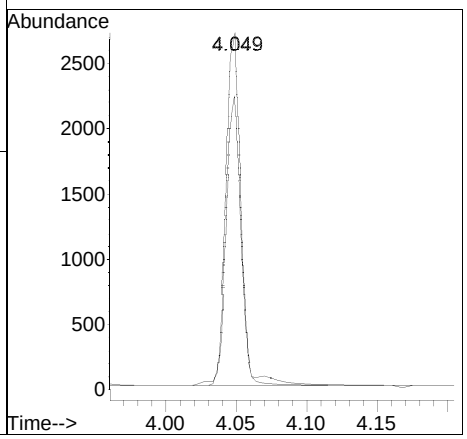


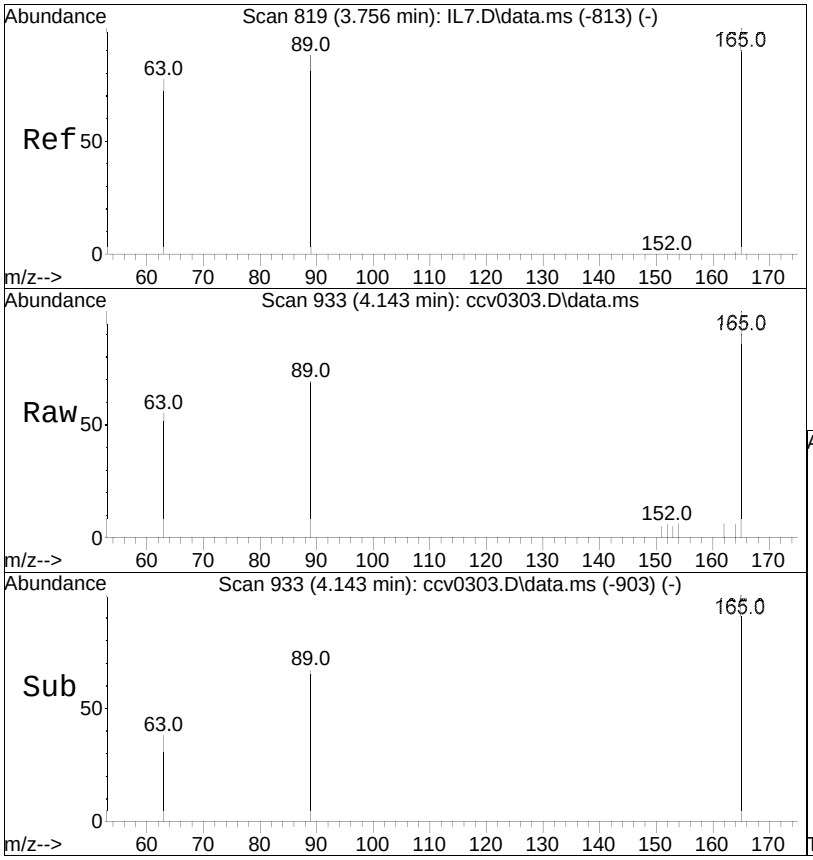


#18
Acenaphthene
Concen: 994.52 ng/ml
RT: 4.049 min Scan# 902
Delta R.T. 0.000 min
Lab File: ccv0303.D
Acq: 03 Mar 2024 07:58 am

Tgt Ion:153 Resp: 1924

Ion	Ratio	Lower	Upper
153	100		
154	82.0	65.8	98.6

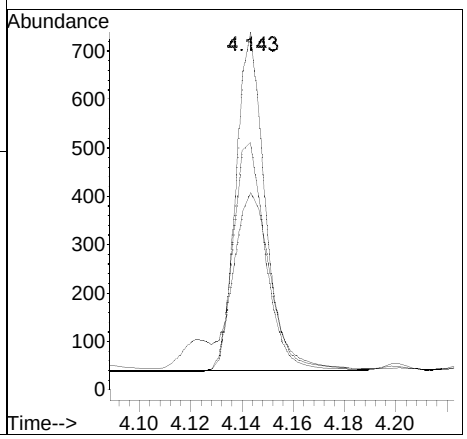


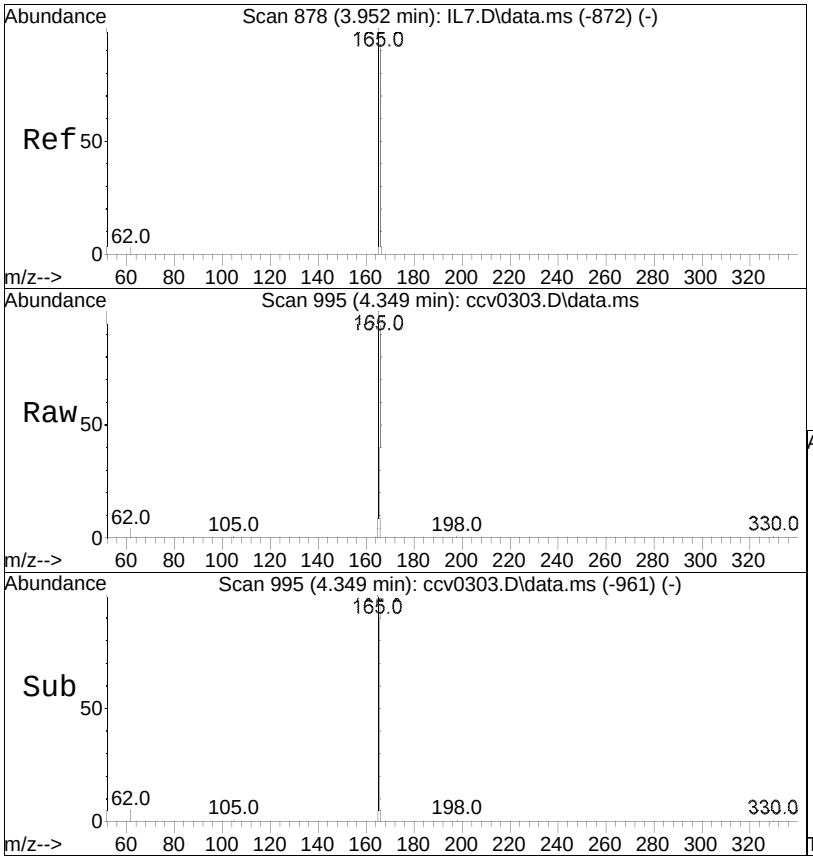


#19
2,4-Dinitrotoluene
Concen: 1285.04 ng/ml
RT: 4.143 min Scan# 933
Delta R.T. 0.000 min
Lab File: ccv0303.D
Acq: 03 Mar 2024 07:58 am

Tgt Ion:165 Resp: 551

Ion	Ratio	Lower	Upper
165	100		
89	75.9	70.6	105.8
63	74.4	62.7	94.1

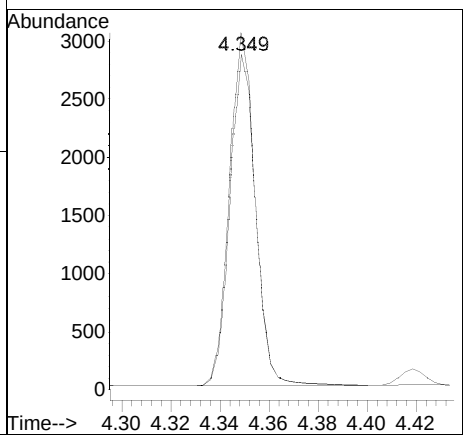


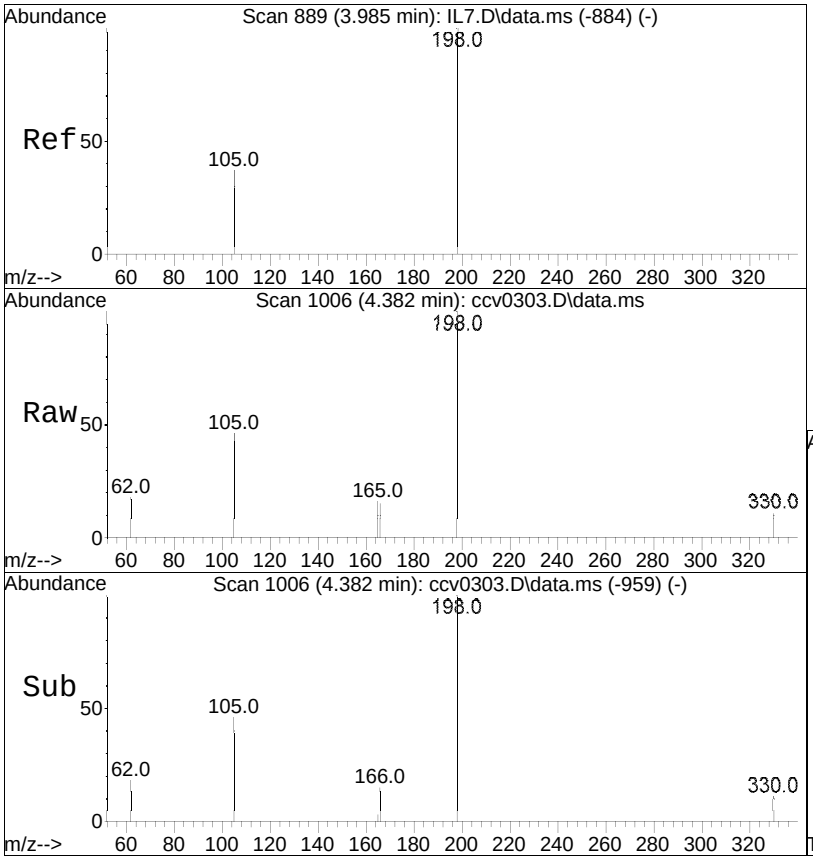


#20
Fluorene
Concen: 1064.28 ng/ml
RT: 4.349 min Scan# 995
Delta R.T. 0.000 min
Lab File: ccv0303.D
Acq: 03 Mar 2024 07:58 am

Tgt Ion:166 Resp: 2078

Ion	Ratio	Lower	Upper
166	100		
165	106.2	85.7	128.5

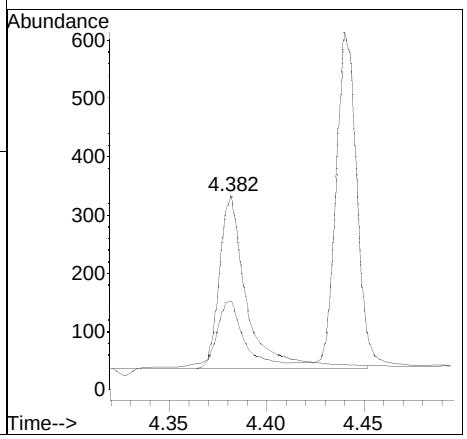


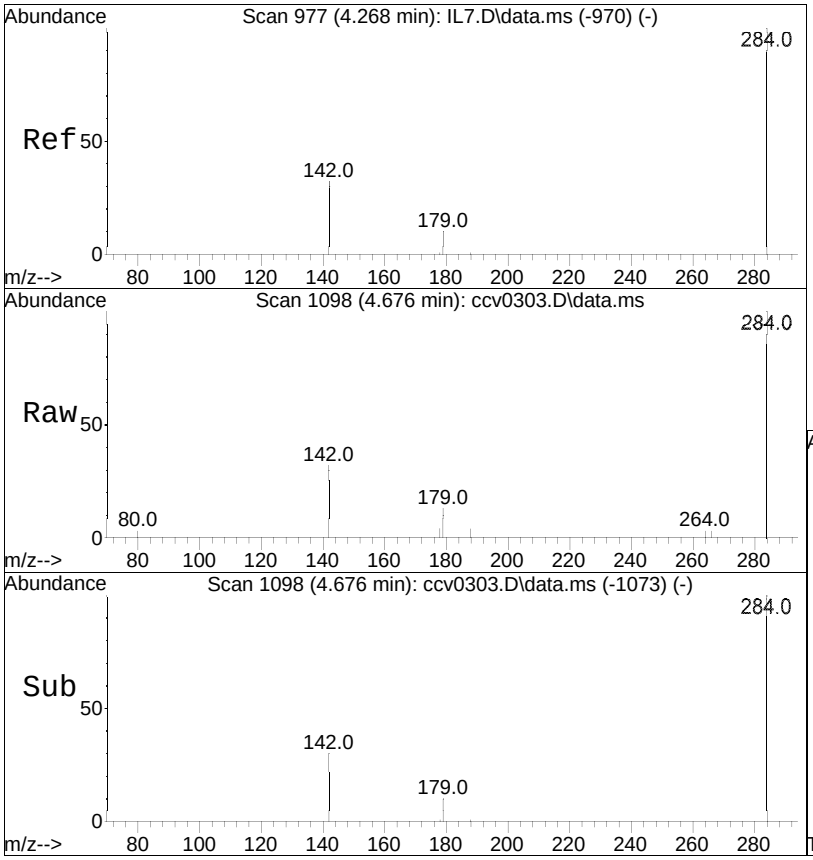


#23
4,6-Dinitro-o-cresol
Concen: 1105.45 ng/ml
RT: 4.382 min Scan# 1006
Delta R.T. 0.000 min
Lab File: ccv0303.D
Acq: 03 Mar 2024 07:58 am

Tgt Ion:198 Resp: 286

Ion	Ratio	Lower	Upper
198	100		
105	53.1	31.4	47.2#

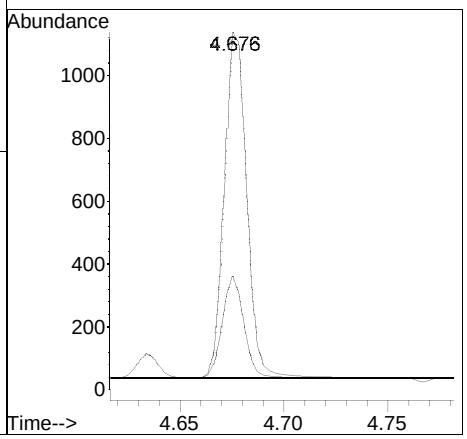


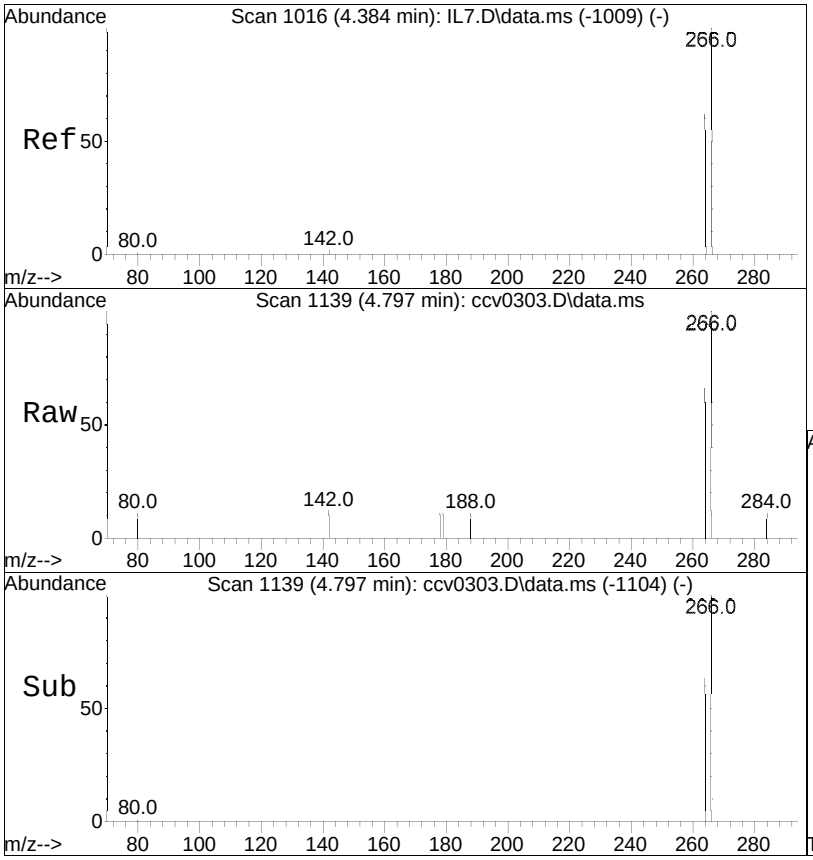


#24
Hexachlorobenzene
Concen: 930.75 ng/ml
RT: 4.676 min Scan# 1098
Delta R.T. 0.000 min
Lab File: ccv0303.D
Acq: 03 Mar 2024 07:58 am

Tgt Ion:284 Resp: 813

Ion	Ratio	Lower	Upper
284	100		
142	28.3	23.9	35.9

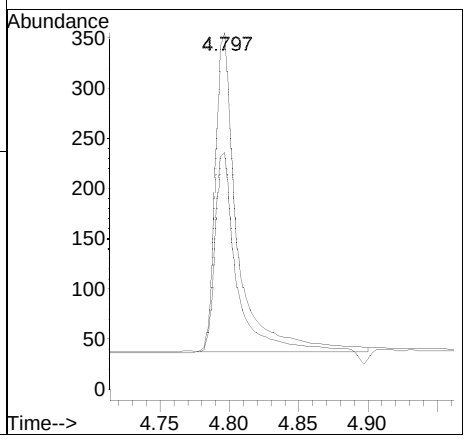


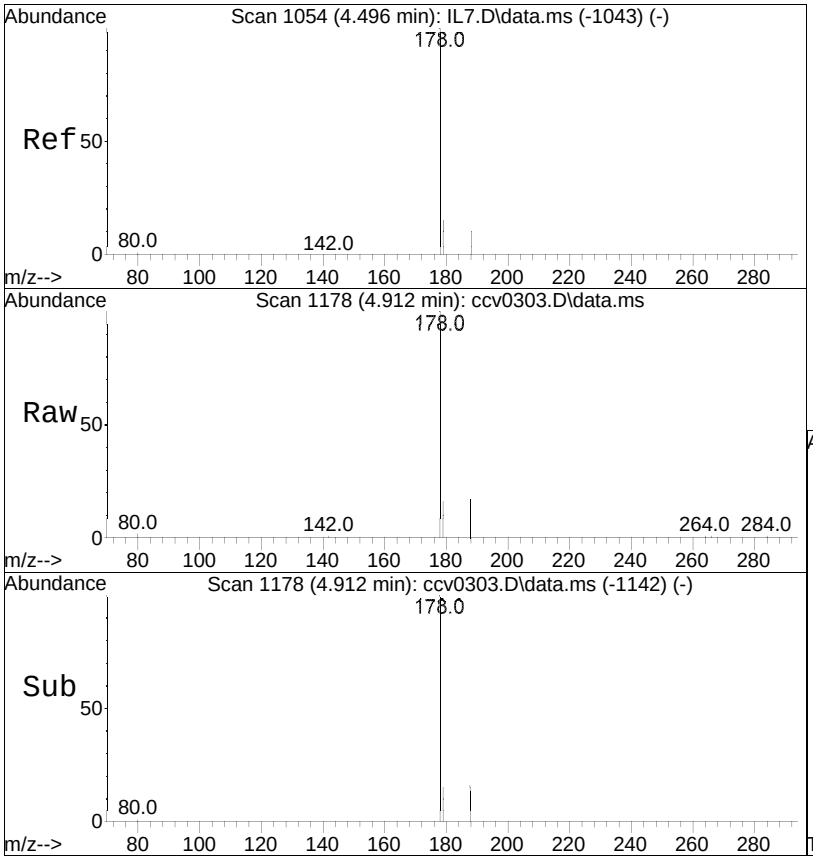


#25
Pentachlorophenol
Concen: 962.63 ng/ml
RT: 4.797 min Scan# 1139
Delta R.T. 0.000 min
Lab File: ccv0303.D
Acq: 03 Mar 2024 07:58 am

Tgt Ion:266 Resp: 349

Ion	Ratio	Lower	Upper
266	100		
264	60.7	49.7	74.5

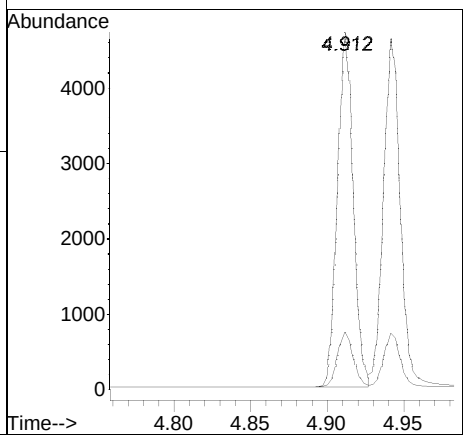


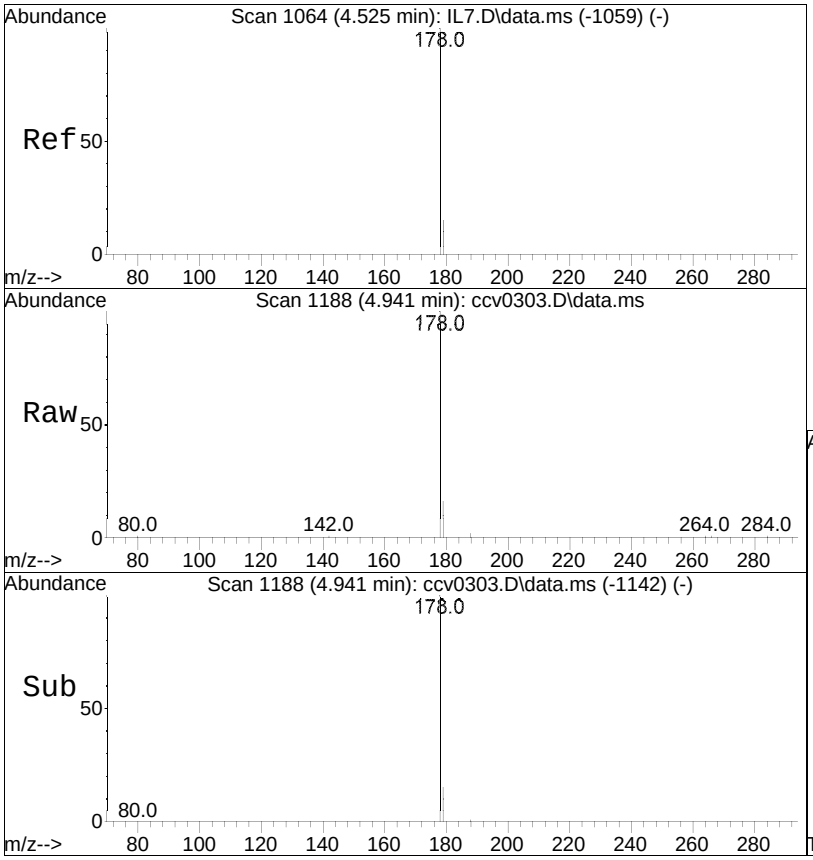


#26
Phenanthrene
Concen: 947.69 ng/ml
RT: 4.912 min Scan# 1178
Delta R.T. 0.000 min
Lab File: ccv0303.D
Acq: 03 Mar 2024 07:58 am

Tgt Ion:178 Resp: 3364

Ion	Ratio	Lower	Upper
178	100		
179	15.5	12.2	18.4

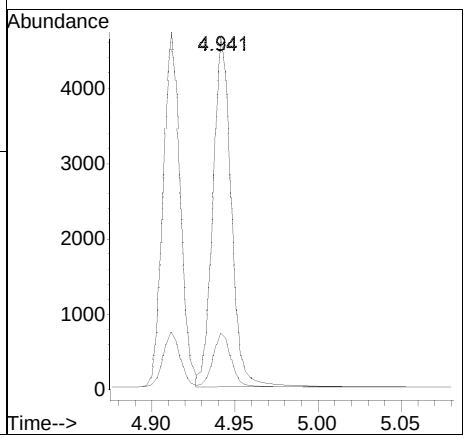


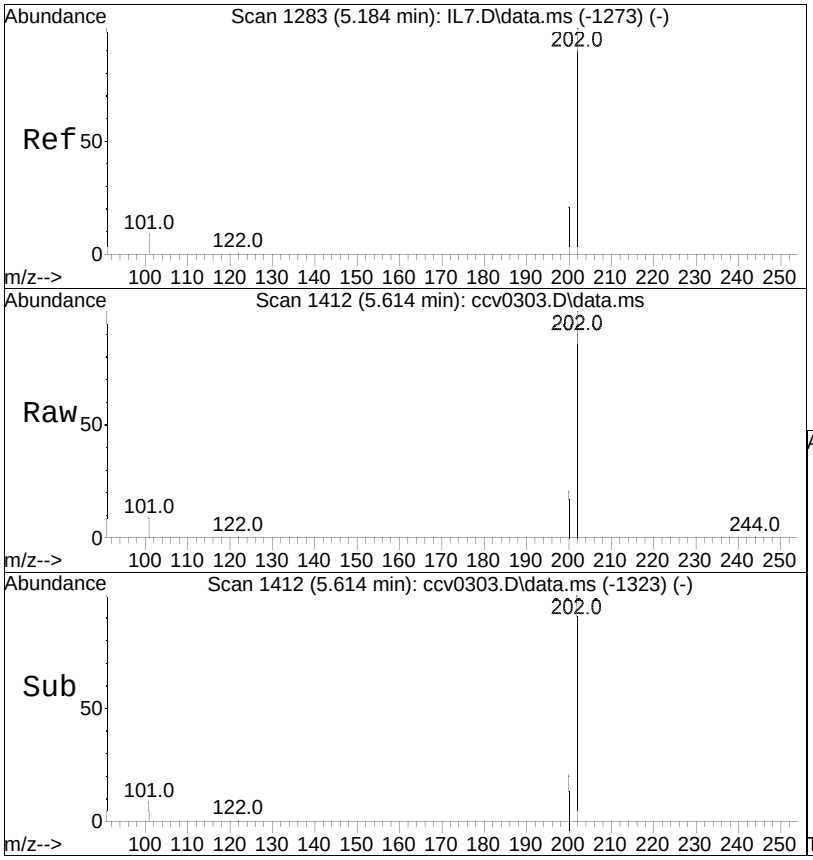


#27
Anthracene
Concen: 1030.64 ng/ml
RT: 4.941 min Scan# 1188
Delta R.T. 0.000 min
Lab File: ccv0303.D
Acq: 03 Mar 2024 07:58 am

Tgt Ion:178 Resp: 3535

Ion	Ratio	Lower	Upper
178	100		
179	15.3	12.2	18.2

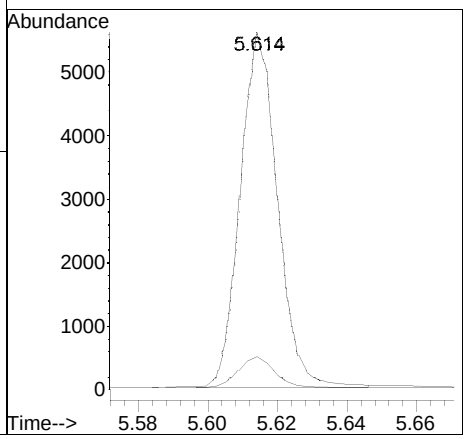


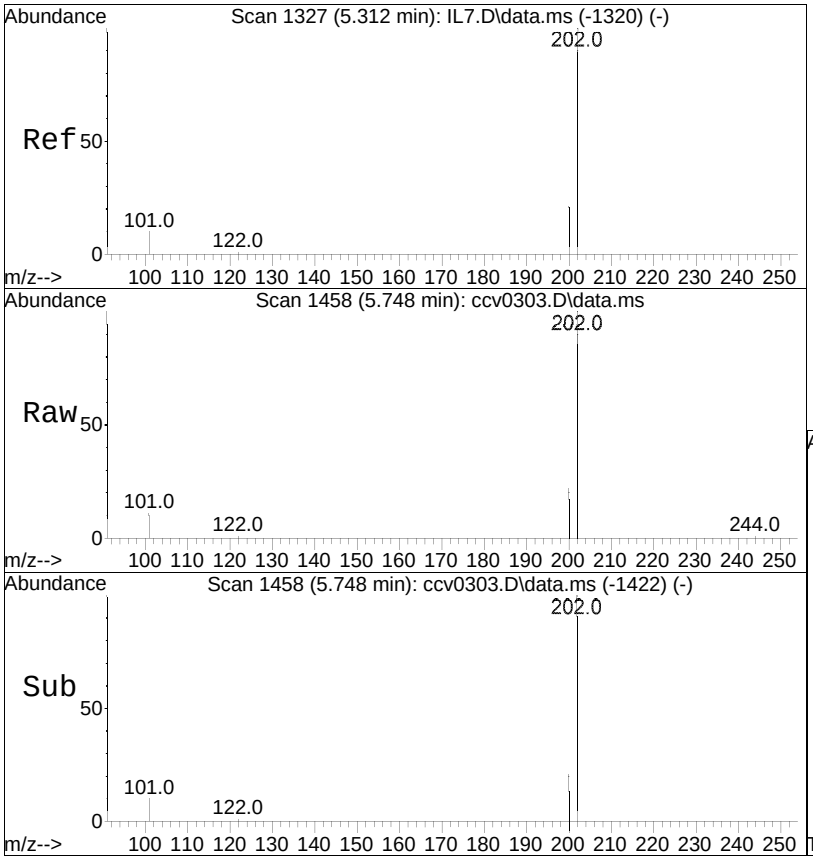


#28
Fluoranthene
Concen: 1057.21 ng/ml M6
RT: 5.614 min Scan# 1412
Delta R.T. 0.000 min
Lab File: ccv0303.D
Acq: 03 Mar 2024 07:58 am

Tgt Ion:202 Resp: 4123

Ion	Ratio	Lower	Upper
202	100		
101	8.8	7.2	10.8

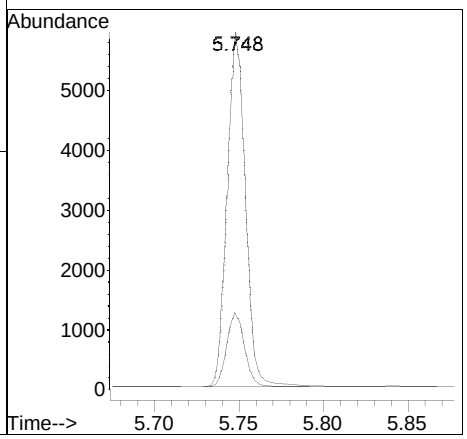


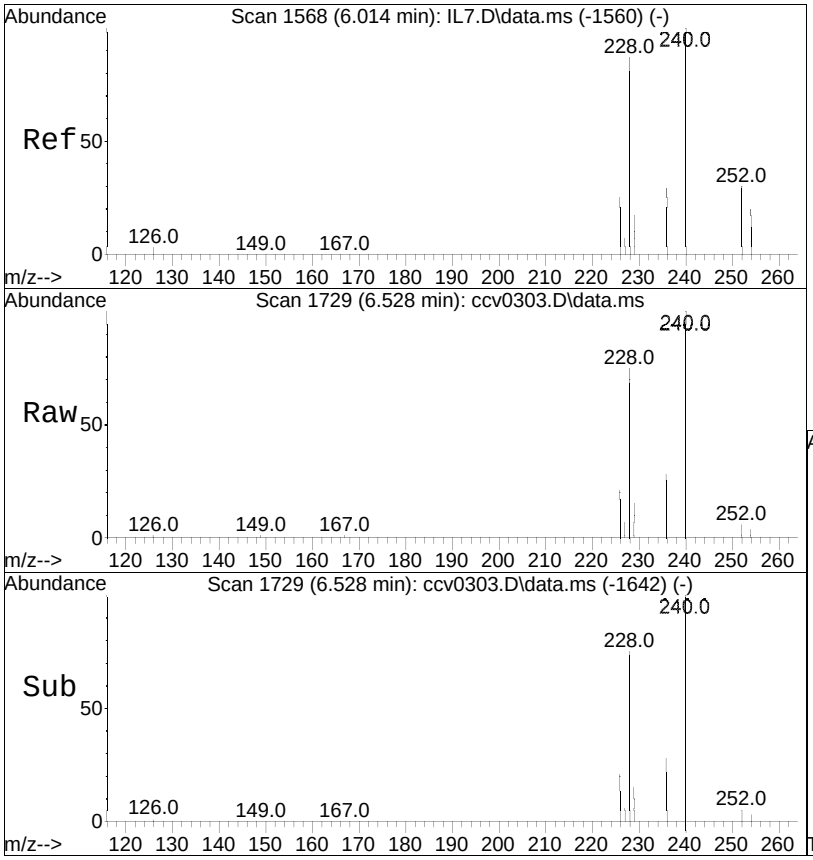


#29
Pyrene
Concen: 1090.22 ng/ml
RT: 5.748 min Scan# 1458
Delta R.T. 0.000 min
Lab File: ccv0303.D
Acq: 03 Mar 2024 07:58 am

Tgt Ion:202 Resp: 4399

Ion	Ratio	Lower	Upper
202	100		
200	21.1	17.7	26.5

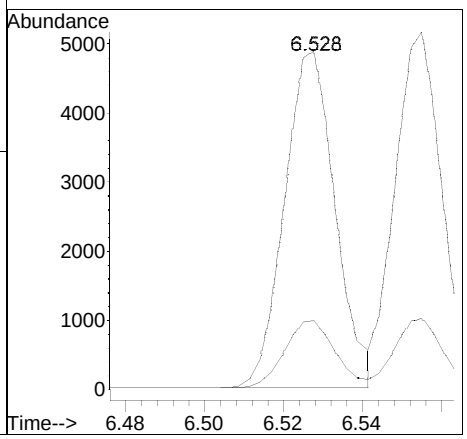


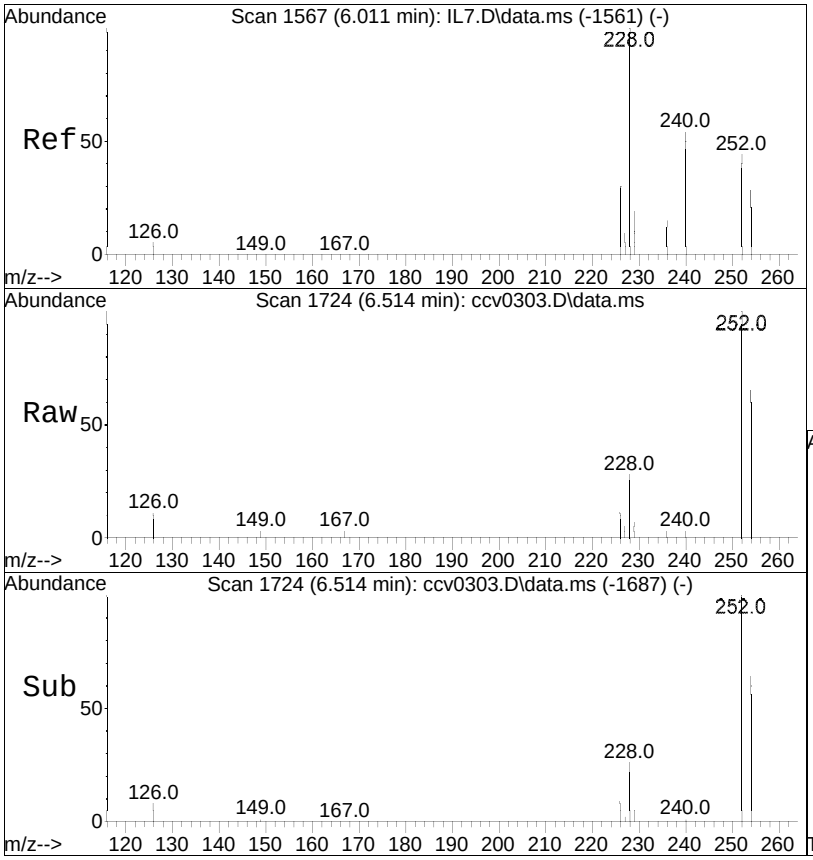


#32
Benzo[a]anthracene
Concen: 951.69 ng/ml
RT: 6.528 min Scan# 1729
Delta R.T. 0.000 min
Lab File: ccv0303.D
Acq: 03 Mar 2024 07:58 am

Tgt Ion:228 Resp: 4315

Ion	Ratio	Lower	Upper
228	100		
229	19.8	15.7	23.5

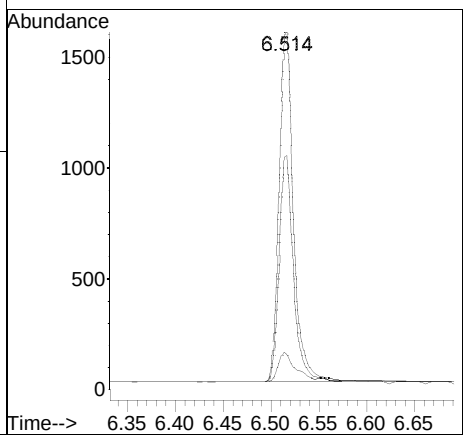


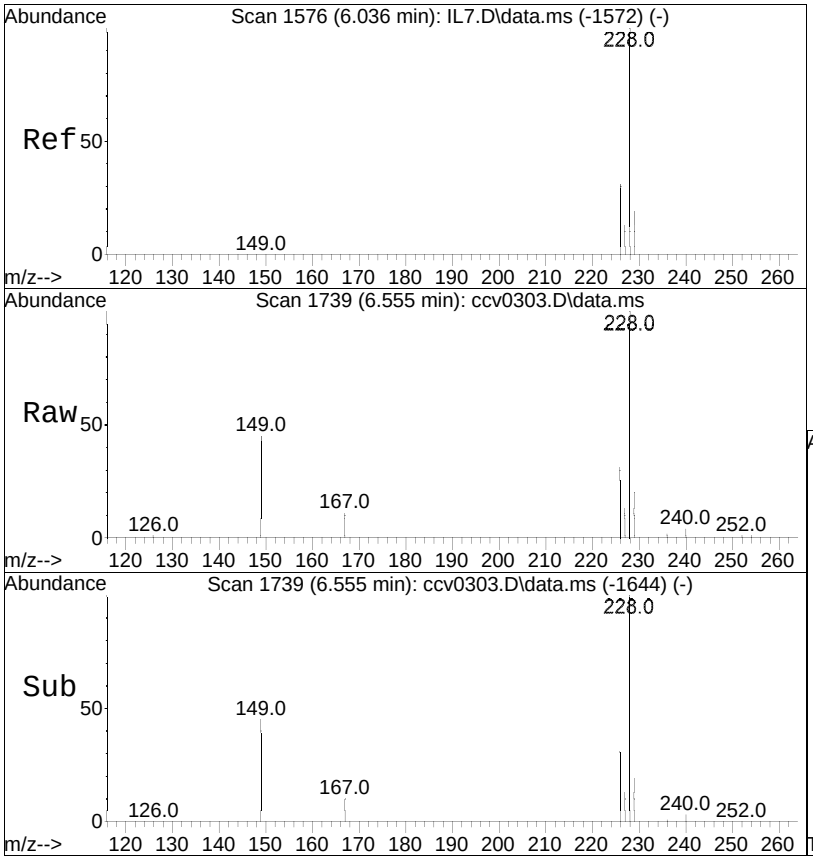


#33
3,3'-Dichlorobenzidine
Concen: 902.38 ng/ml
RT: 6.514 min Scan# 1724
Delta R.T. 0.000 min
Lab File: ccv0303.D
Acq: 03 Mar 2024 07:58 am

Tgt Ion:252 Resp: 1594

Ion	Ratio	Lower	Upper
252	100		
126	10.5	9.4	14.0
254	64.3	51.8	77.6

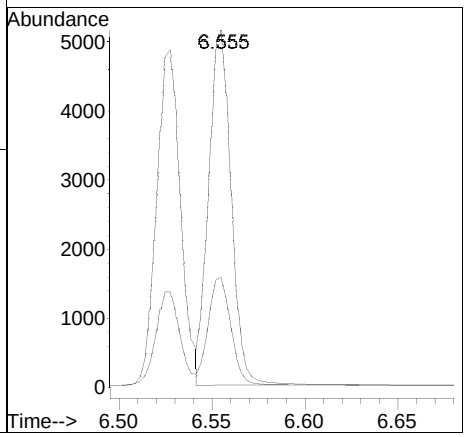


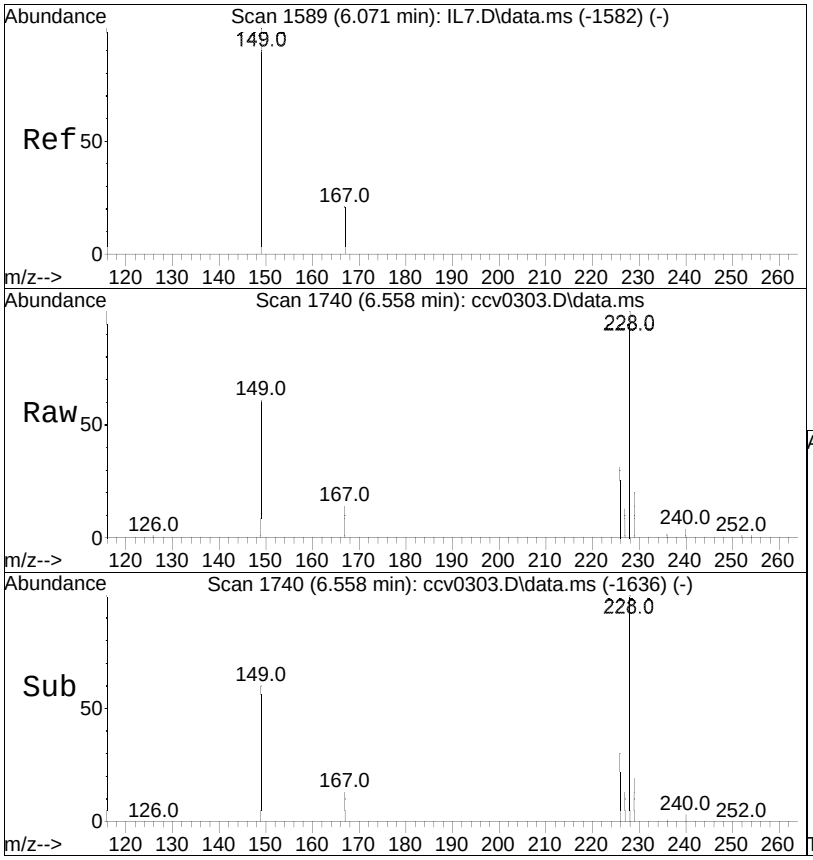


#34
Chrysene
Concen: 992.51 ng/ml
RT: 6.555 min Scan# 1739
Delta R.T. 0.000 min
Lab File: ccv0303.D
Acq: 03 Mar 2024 07:58 am

Tgt Ion:228 Resp: 4298

Ion	Ratio	Lower	Upper
228	100		
226	30.8	24.6	36.8

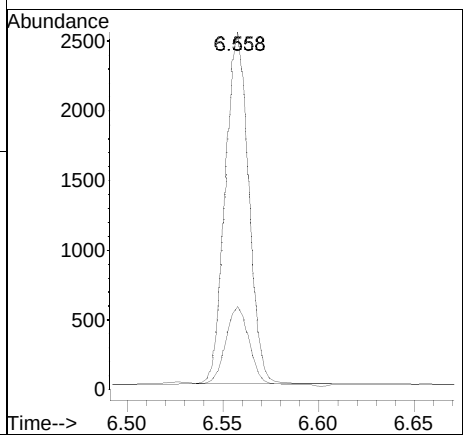


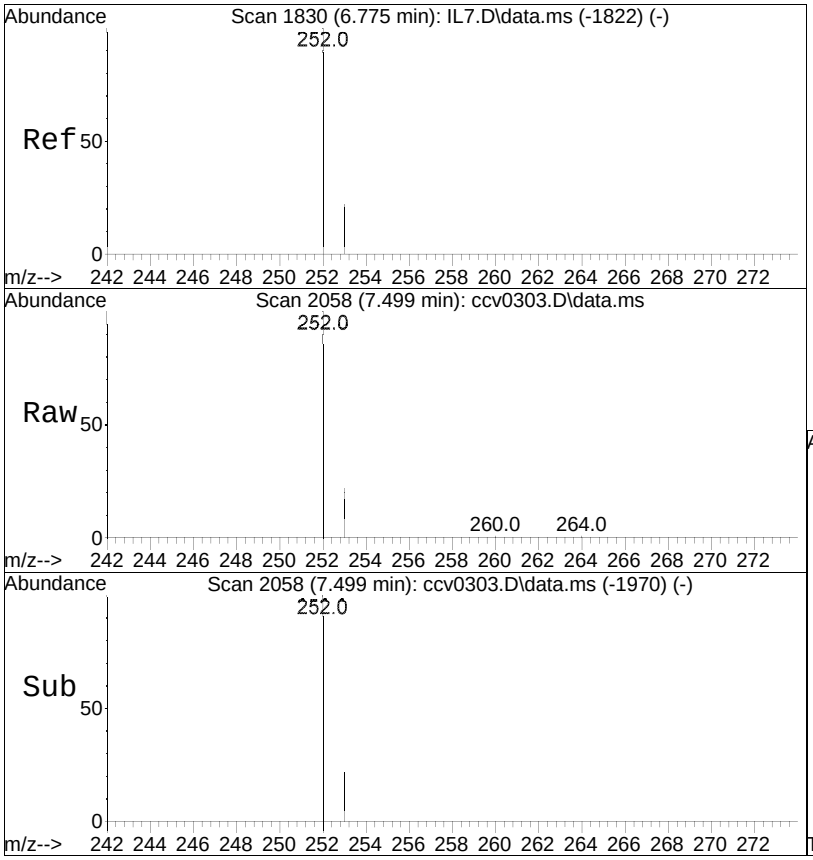


#35
Bis(2-ethylhexyl)phthalate
Concen: 961.79 ng/ml
RT: 6.558 min Scan# 1740
Delta R.T. 0.000 min
Lab File: ccv0303.D
Acq: 03 Mar 2024 07:58 am

Tgt Ion:149 Resp: 2121

Ion	Ratio	Lower	Upper
149	100		
167	25.2	16.4	24.6#

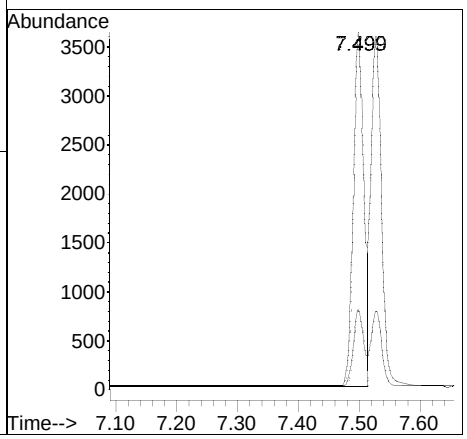


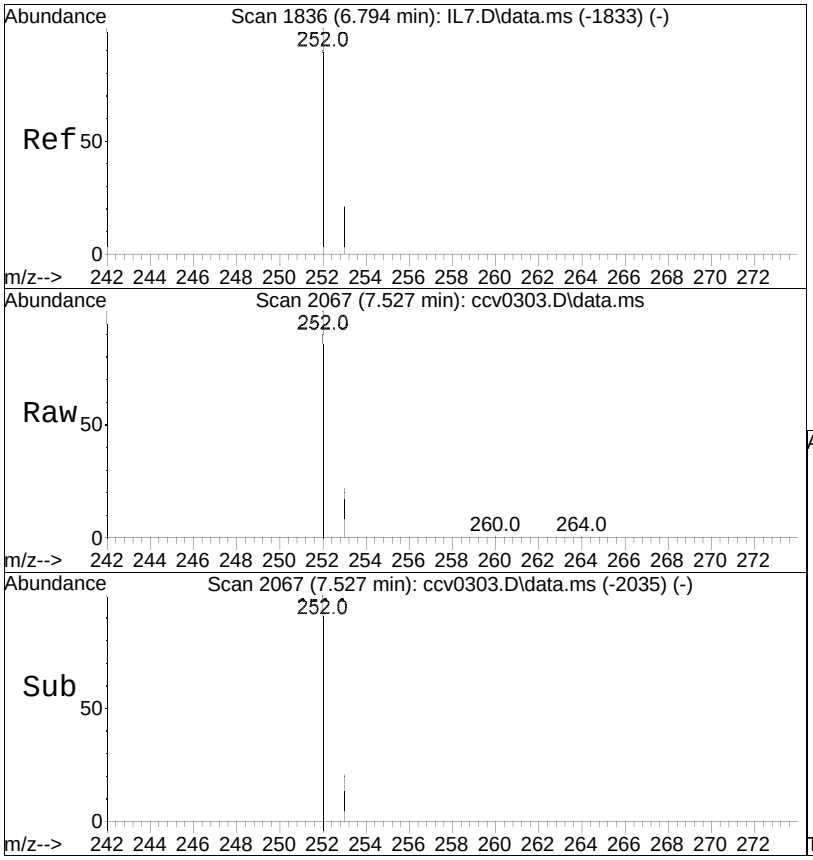


#37
Benzo[b]fluoranthene
Concen: 997.64 ng/ml
RT: 7.499 min Scan# 2058
Delta R.T. 0.000 min
Lab File: ccv0303.D
Acq: 03 Mar 2024 07:58 am

Tgt Ion:252 Resp: 4291

Ion	Ratio	Lower	Upper
252	100		
253	21.5	17.1	25.7

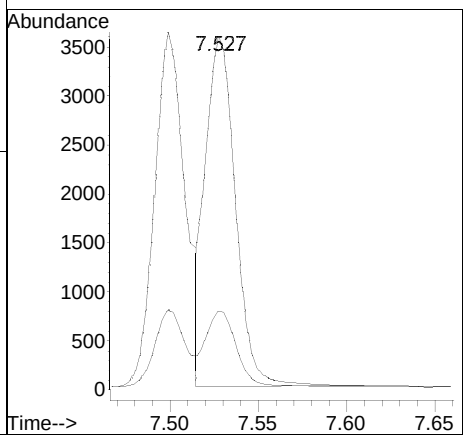


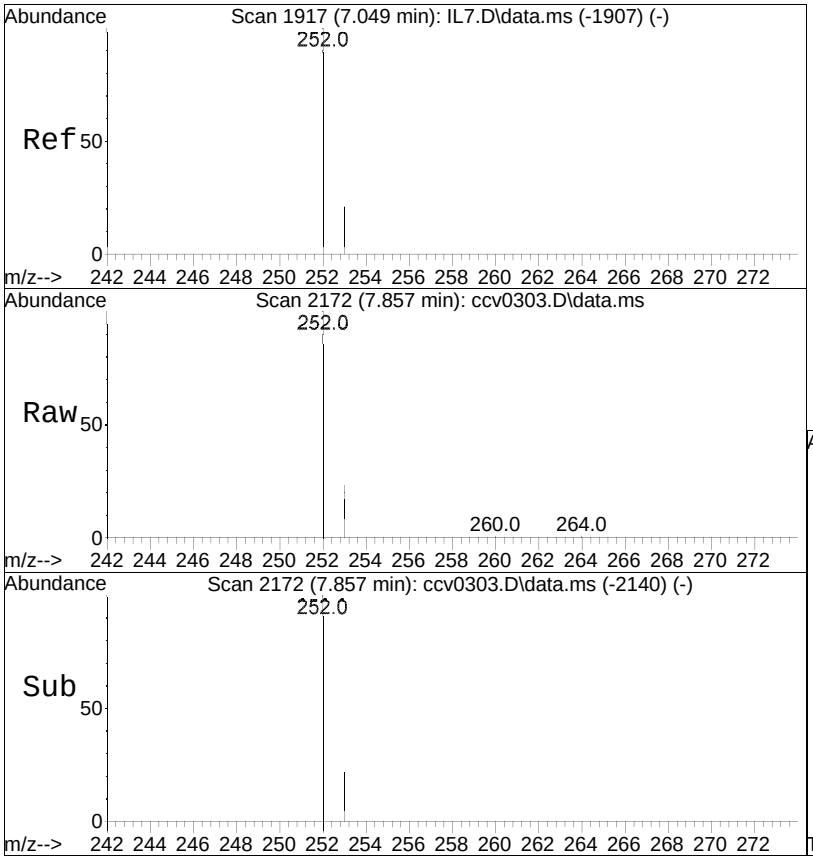


#38
Benzo[k]fluoranthene
Concen: 1044.31 ng/ml
RT: 7.527 min Scan# 2067
Delta R.T. 0.000 min
Lab File: ccv0303.D
Acq: 03 Mar 2024 07:58 am

Tgt Ion:252 Resp: 4180

Ion	Ratio	Lower	Upper
252	100		
253	21.7	17.3	25.9

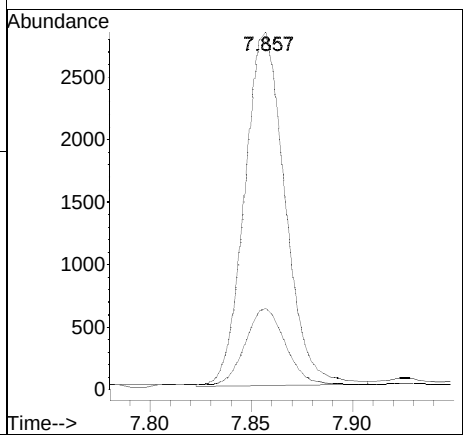


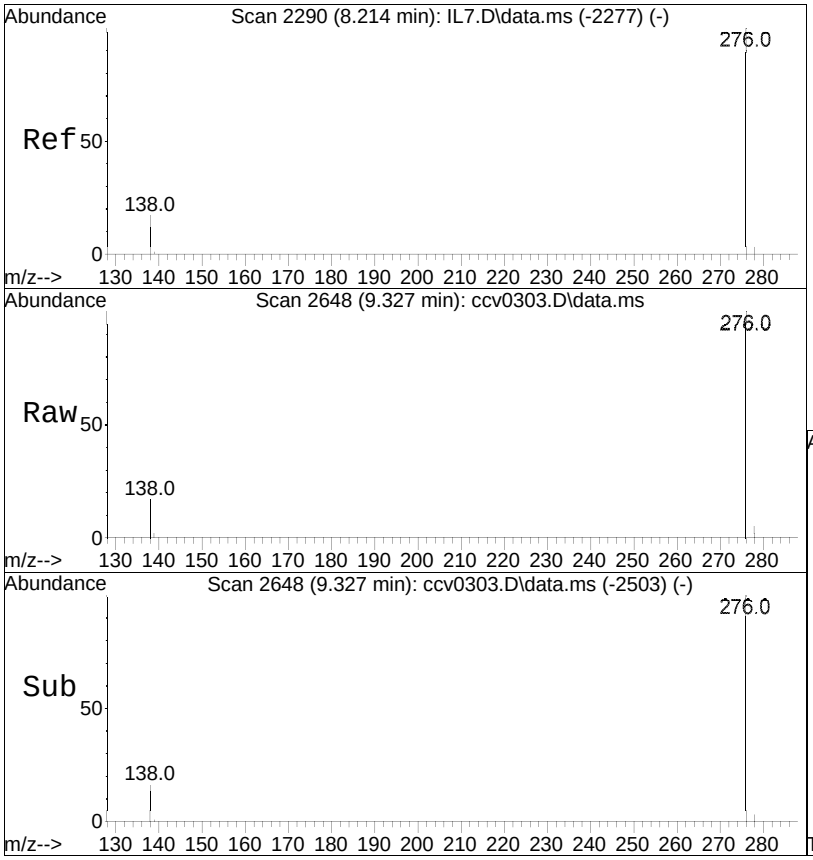


#39
Benzo[a]pyrene
Concen: 1027.32 ng/ml
RT: 7.857 min Scan# 2172
Delta R.T. 0.000 min
Lab File: ccv0303.D
Acq: 03 Mar 2024 07:58 am

Tgt Ion:252 Resp: 3891

Ion	Ratio	Lower	Upper
252	100		
253	21.6	17.3	25.9

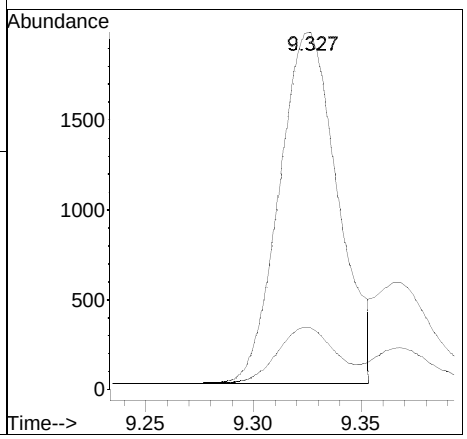


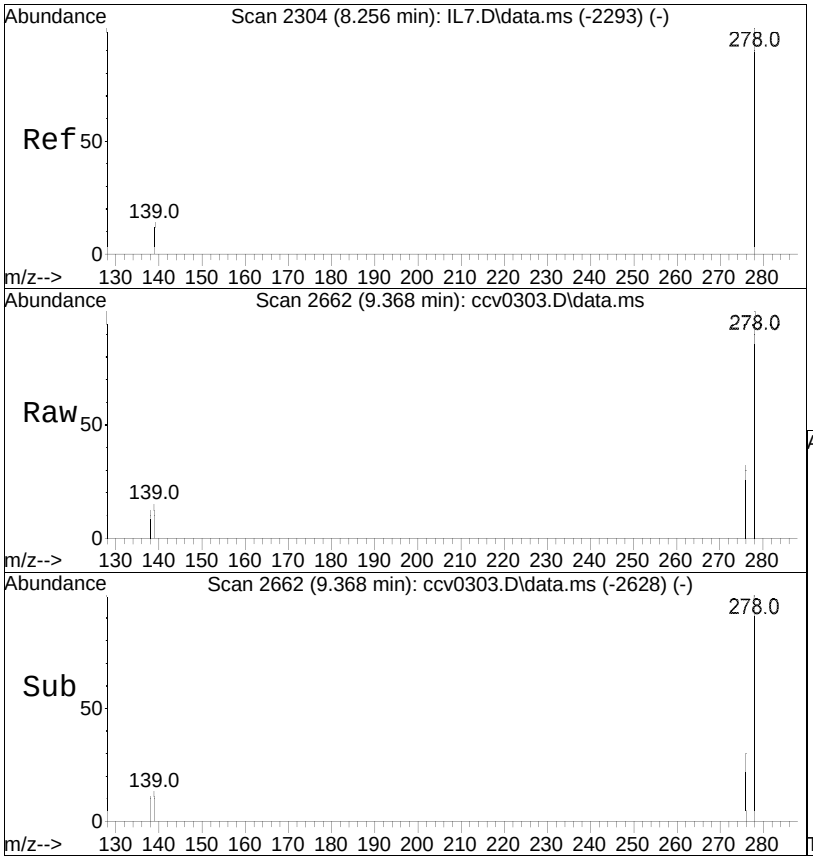


#40
Indeno[1,2,3-cd]pyrene
Concen: 969.57 ng/ml
RT: 9.327 min Scan# 2648
Delta R.T. 0.000 min
Lab File: ccv0303.D
Acq: 03 Mar 2024 07:58 am

Tgt Ion:276 Resp: 3672

Ion	Ratio	Lower	Upper
276	100		
138	15.5	13.4	20.2

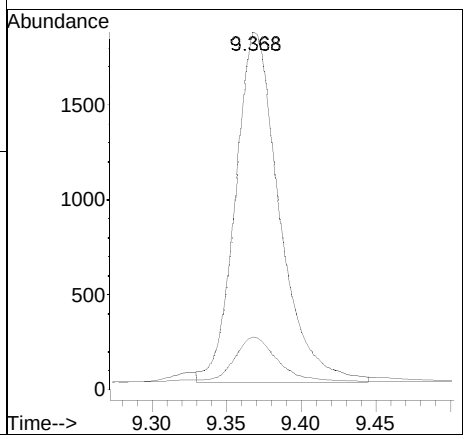


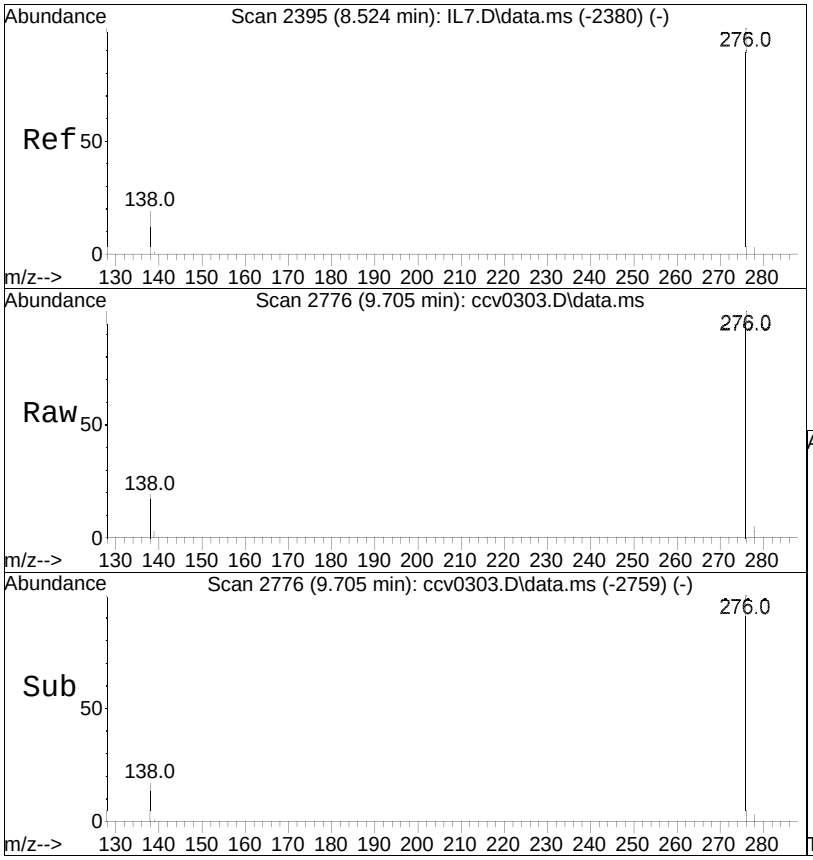


#41
Dibenzo[a,h]anthracene
Concen: 1025.74 ng/ml M6
RT: 9.368 min Scan# 2662
Delta R.T. 0.000 min
Lab File: ccv0303.D
Acq: 03 Mar 2024 07:58 am

Tgt Ion:278 Resp: 3773

Ion	Ratio	Lower	Upper
278	100		
139	12.3	10.9	16.3

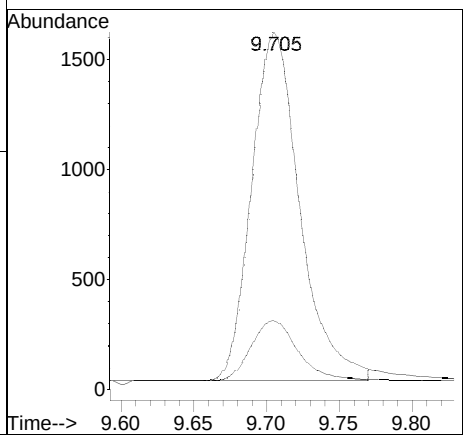




#42
Benzo[g,h,i]perylene
Concen: 923.40 ng/ml M1
RT: 9.705 min Scan# 2776
Delta R.T. 0.000 min
Lab File: ccv0303.D
Acq: 03 Mar 2024 07:58 am

Tgt Ion:276 Resp: 3635

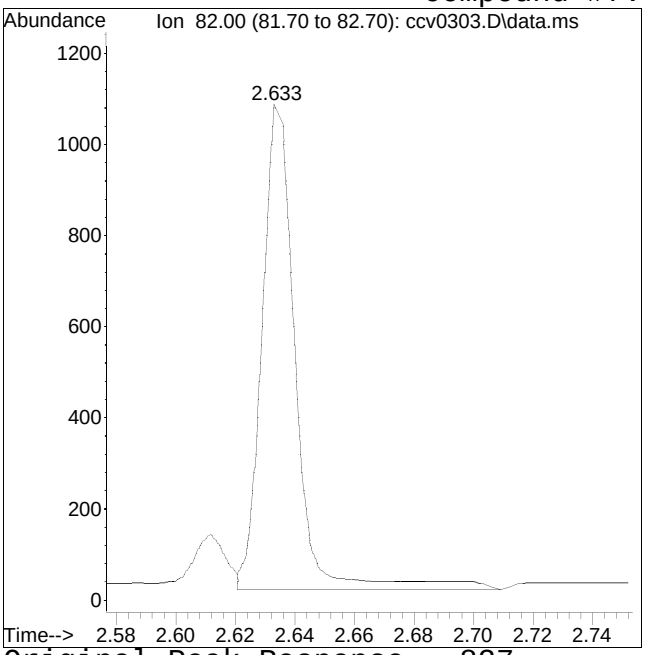
Ion	Ratio	Lower	Upper
276	100		
138	16.7	14.8	22.2



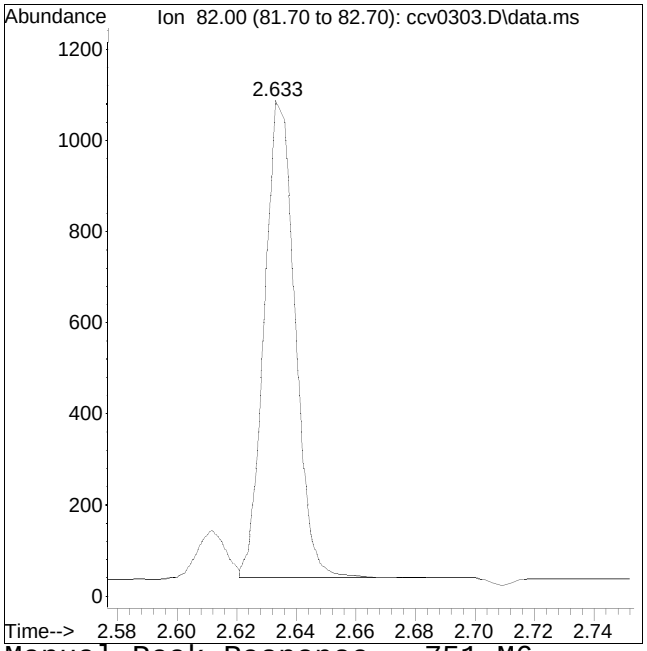
Manual Integration Report

Data Path : I:\8270SIM\SV128\240303\ QMethod : SIM-LVI_231211_sv128.M
Data File : ccv0303.D Operator : SV128:jjw
Date Inj'd : 3/3/2024 7:58 am Instrument : SV128
Sample : WG1891581-3,32,,ICV 10475 Quant Date : 3/3/2024 8:22 am

Compound #7: Nitrobenzene-d5



Original Peak Response = 827



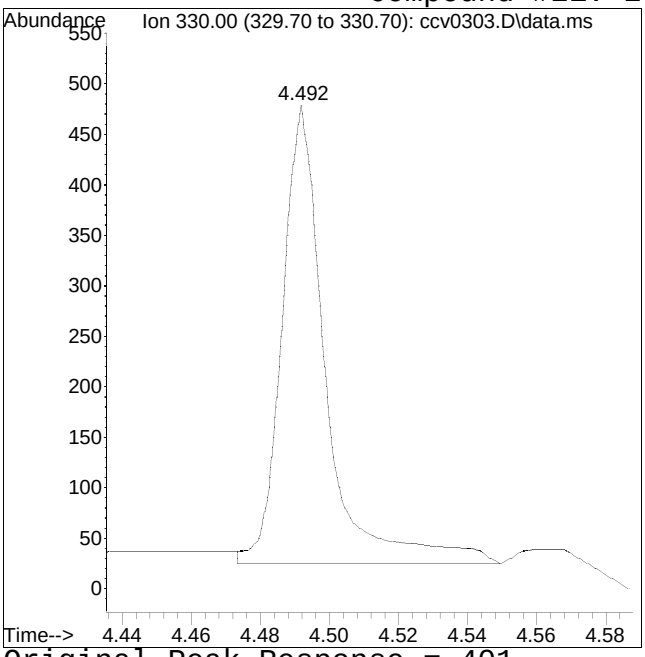
Manual Peak Response = 751 M6

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

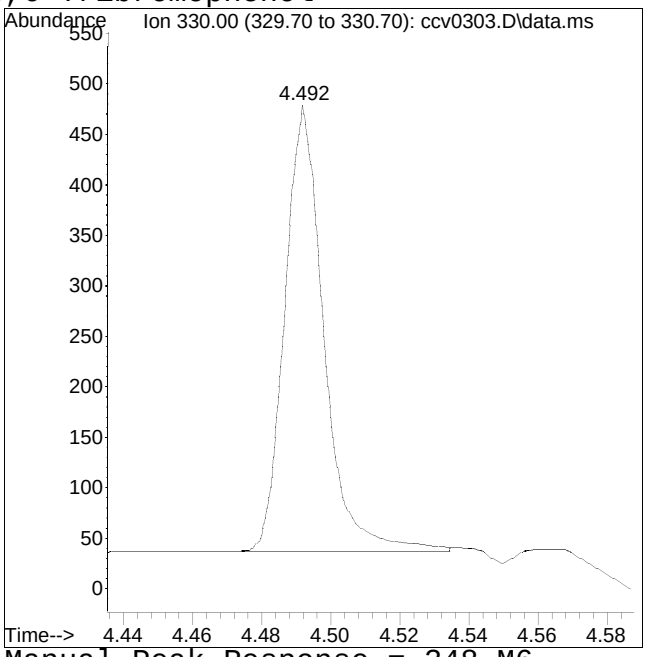
Manual Integration Report

Data Path : I:\8270SIM\SV128\240303\ QMethod : SIM-LVI_231211_sv128.M
Data File : ccv0303.D Operator : SV128:jjw
Date Inj'd : 3/3/2024 7:58 am Instrument : SV128
Sample : WG1891581-3,32,,ICV 10475 Quant Date : 3/3/2024 8:22 am

Compound #21: 2,4,6-Tribromophenol



Original Peak Response = 401



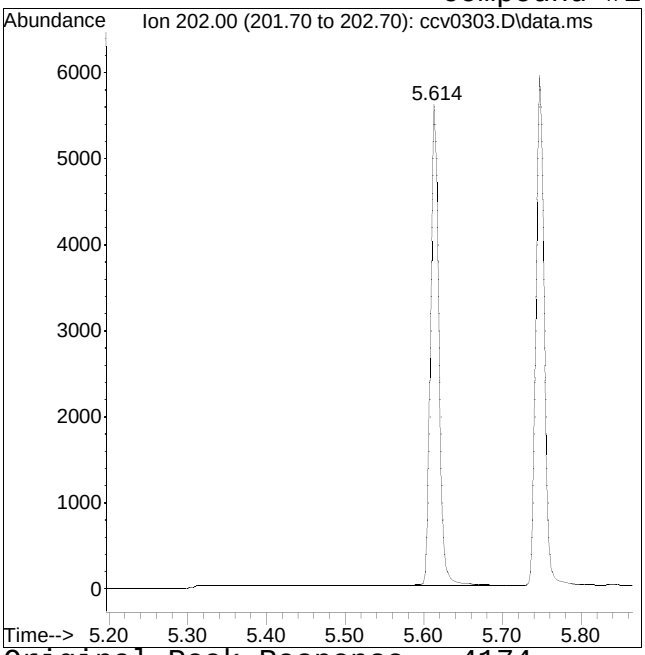
Manual Peak Response = 348 M6

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

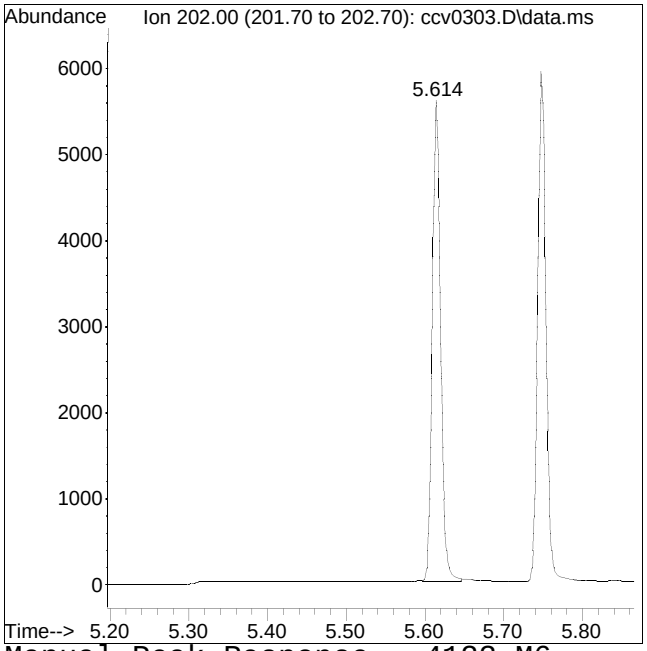
Manual Integration Report

Data Path : I:\8270SIM\SV128\240303\ QMethod : SIM-LVI_231211_sv128.M
Data File : ccv0303.D Operator : SV128:jjw
Date Inj'd : 3/3/2024 7:58 am Instrument : SV128
Sample : WG1891581-3,32,,ICV 10475 Quant Date : 3/3/2024 8:22 am

Compound #28: Fluoranthene



Original Peak Response = 4174



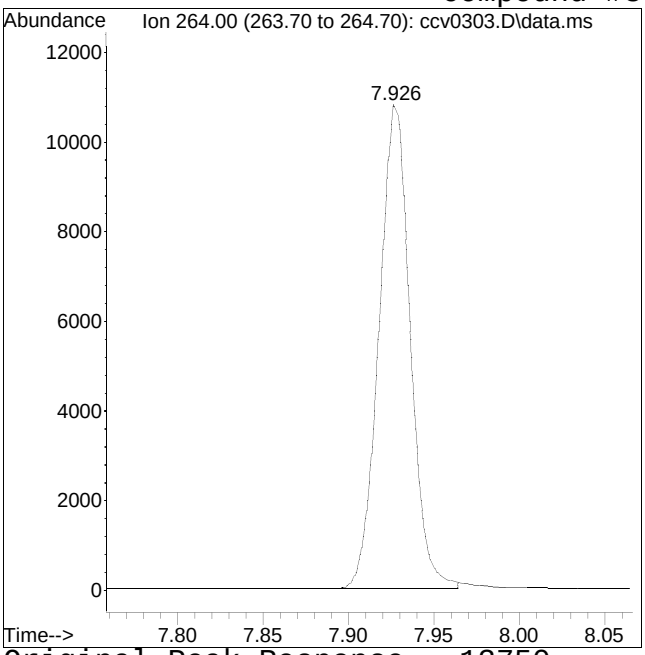
Manual Peak Response = 4123 M6

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

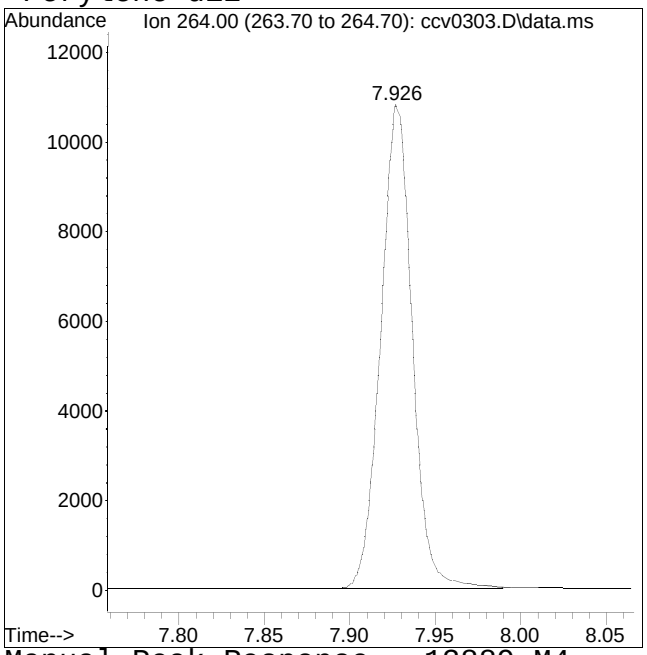
Manual Integration Report

Data Path : I:\8270SIM\SV128\240303\ QMethod : SIM-LVI_231211_sv128.M
Data File : ccv0303.D Operator : SV128:jjw
Date Inj'd : 3/3/2024 7:58 am Instrument : SV128
Sample : WG1891581-3,32,,ICV 10475 Quant Date : 3/3/2024 8:22 am

Compound #36: Perylene-d12



Original Peak Response = 13750



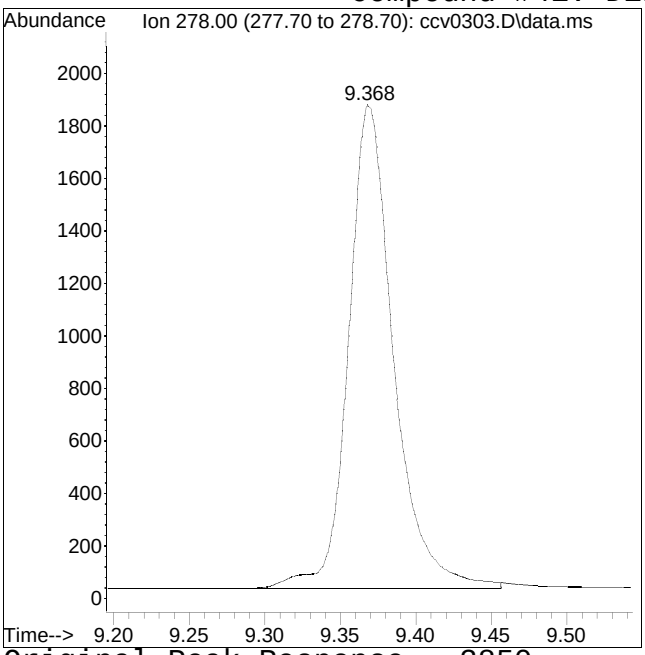
Manual Peak Response = 13889 M4

M4 = Poor automated baseline construction.

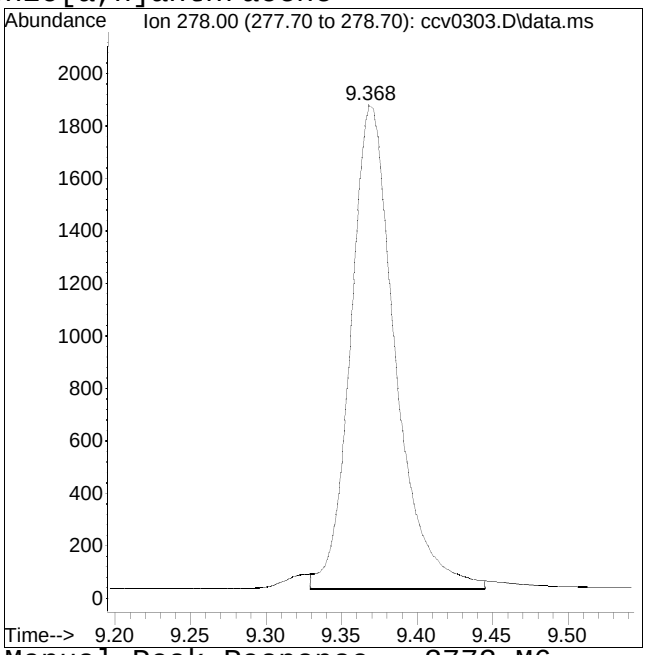
Manual Integration Report

Data Path : I:\8270SIM\SV128\240303\ QMethod : SIM-LVI_231211_sv128.M
Data File : ccv0303.D Operator : SV128:jjw
Date Inj'd : 3/3/2024 7:58 am Instrument : SV128
Sample : WG1891581-3,32,,ICV 10475 Quant Date : 3/3/2024 8:22 am

Compound #41: Dibenzo[a,h]anthracene



Original Peak Response = 3850



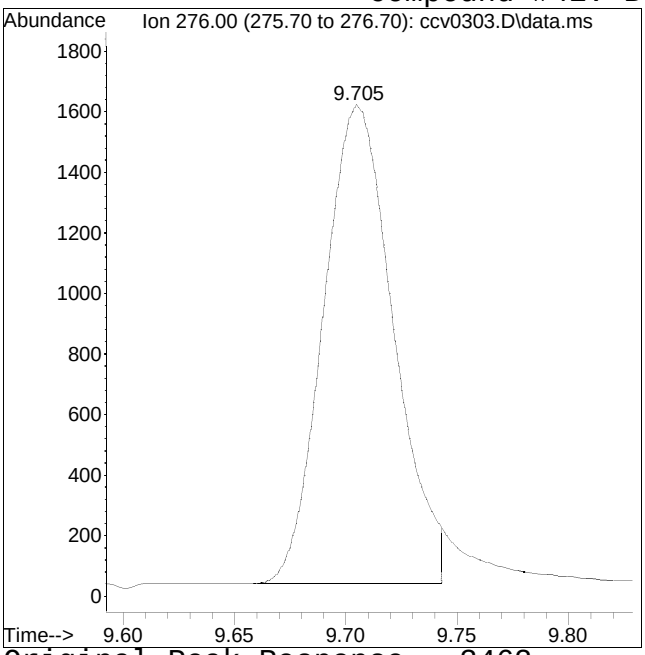
Manual Peak Response = 3773 M6

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

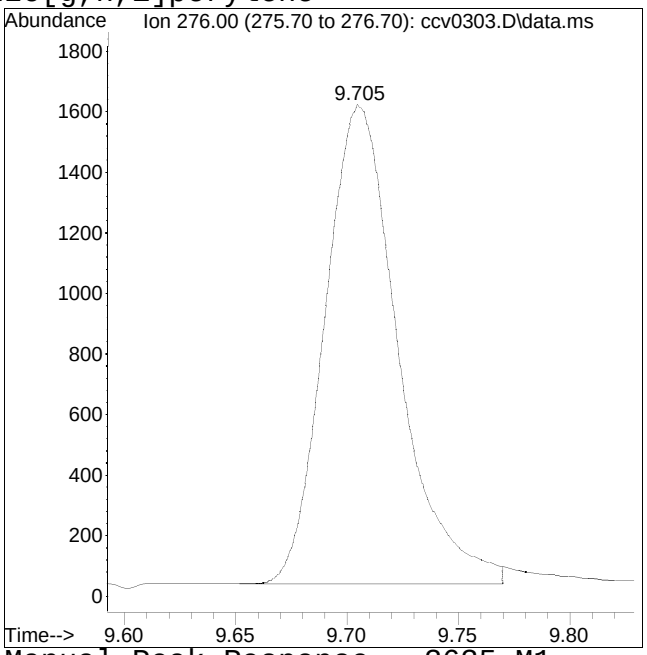
Manual Integration Report

Data Path : I:\8270SIM\SV128\240303\ QMethod : SIM-LVI_231211_sv128.M
Data File : ccv0303.D Operator : SV128:jjw
Date Inj'd : 3/3/2024 7:58 am Instrument : SV128
Sample : WG1891581-3,32,,ICV 10475 Quant Date : 3/3/2024 8:22 am

Compound #42: Benzo[g,h,i]perylene



Original Peak Response = 3462



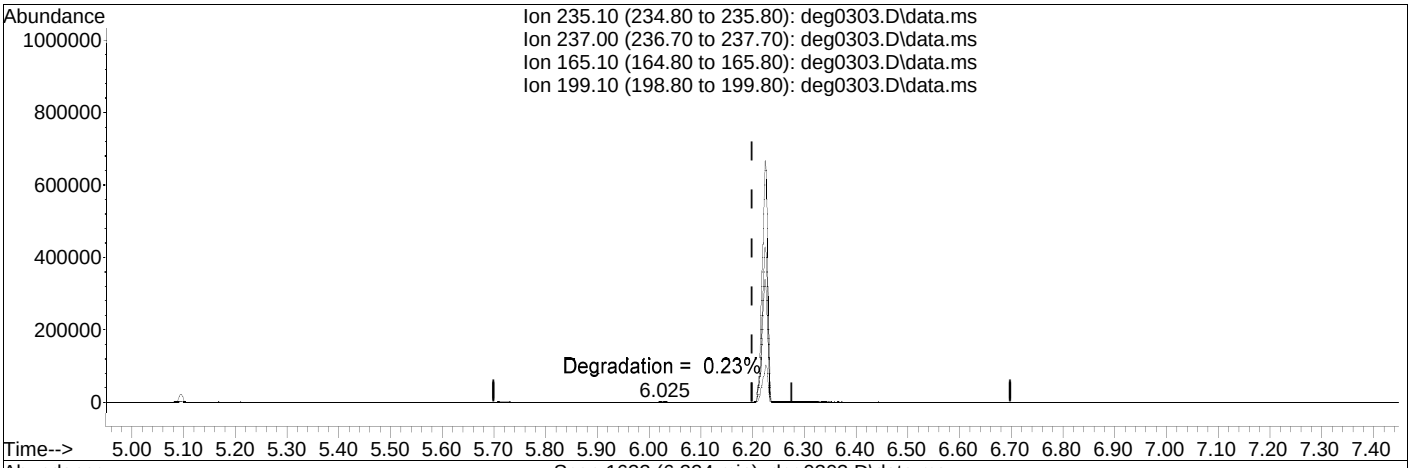
Manual Peak Response = 3635 M1

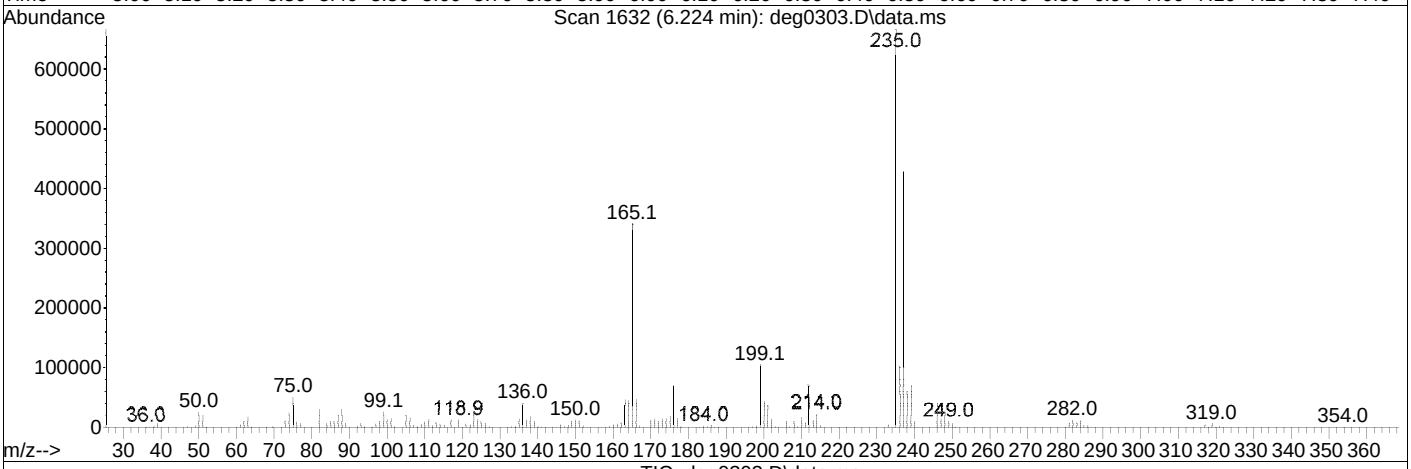
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Quantitation Report (Qedit)

Data Path : I:\8270SIM\SV128\240303\
Data File : deg0303.D
Acq On : 03 Mar 2024 07:40 am
Operator : SV128:jjw
Sample : WG1891581-2,32,, dftpp sv128
Misc : WG1891581,,ical20676
ALS Vial : 48 Sample Multiplier: 1

Quant Time: Mar 03 07:55:31 2024
Quant Method : I:\8270SIM\SV128\240303\dftppsv128.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Feb 24 14:20:46 2024
Response via : Continuing Cal File: C:\ENVDEMO\BNADATA\DLWB002.D





TIC: deg0303.D\data.ms

(6) ddt (T)

6.224min (+ 0.025) 77.30

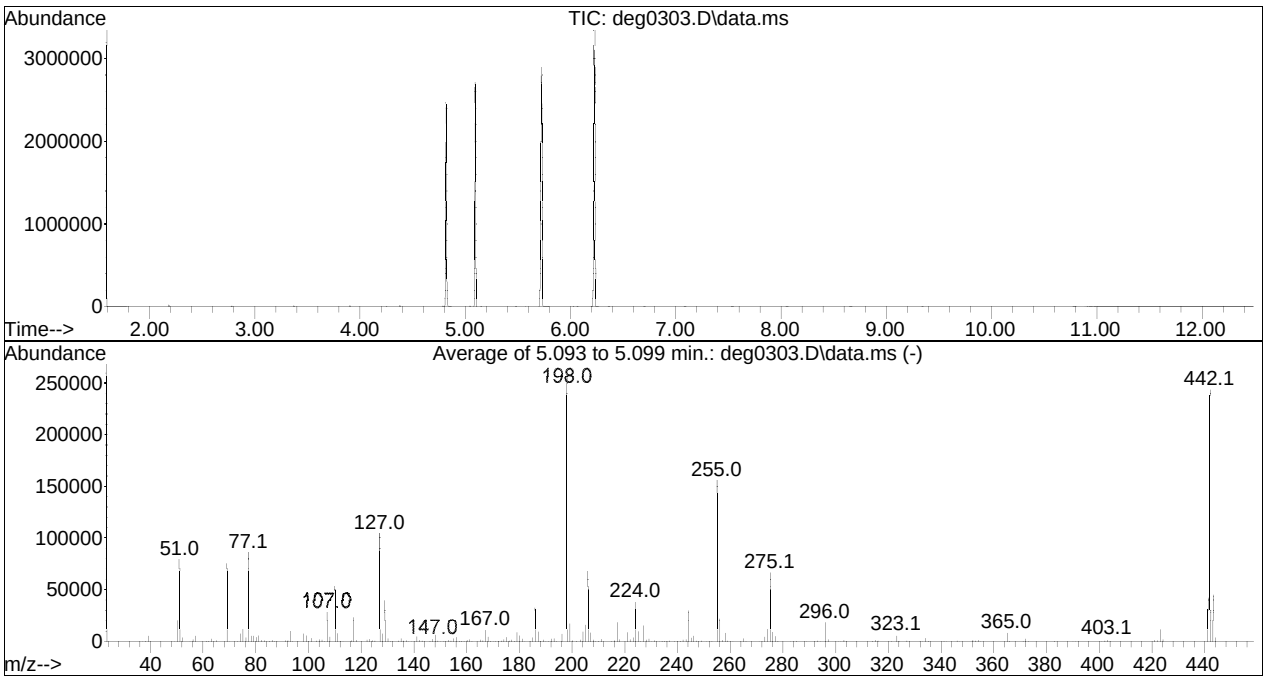
response 471195

Ion	Exp%	Act%
235.10	100.00	100.00
237.00	65.60	64.63
165.10	53.30	49.82
199.10	17.10	15.34

Data Path : I:\8270SIM\SV128\240303\
Data File : deg0303.D
Acq On : 03 Mar 2024 07:40 am
Operator : SV128:jjw
Sample : WG1891581-1,32,, dftpp sv128
Misc : WG1891581,,ical20676
ALS Vial : 48 Sample Multiplier: 1

Integration File: rteint.p

Method : I:\8270SIM\SV128\240303\SIM-LVI_231211_sv128.M
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Sun Mar 03 08:22:48 2024



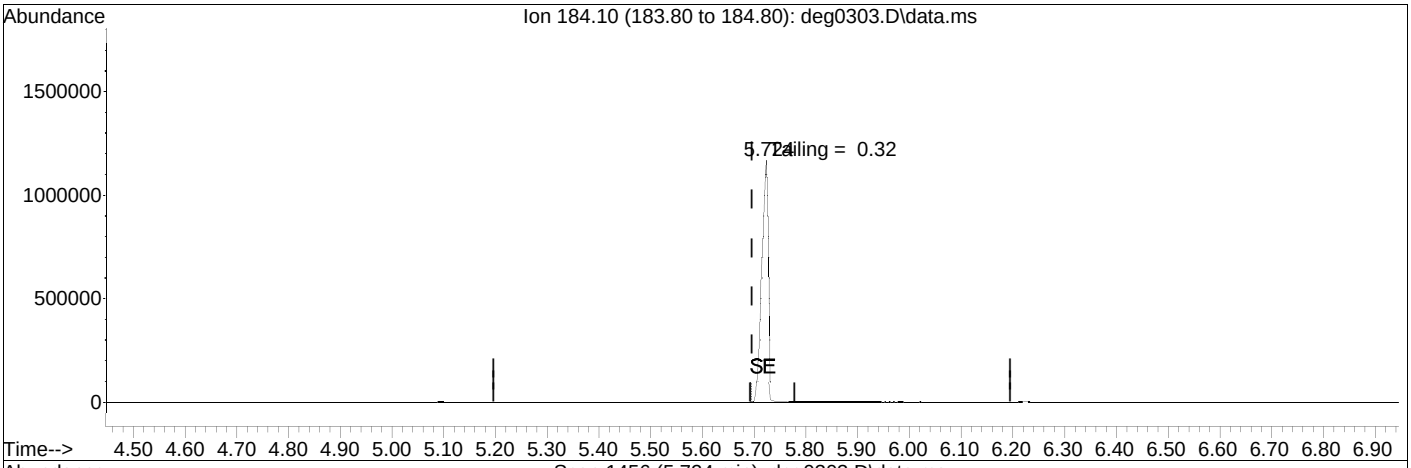
Spectrum Information: Average of 5.093 to 5.099 min.

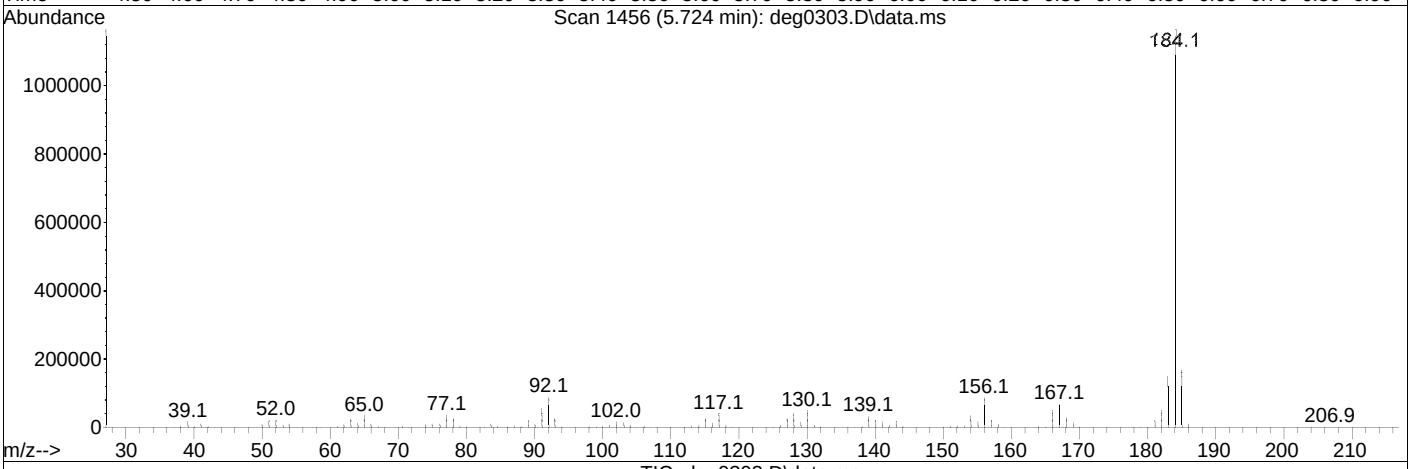
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	31.0	79173	PASS
68	69	0.00	2	0.3	193	PASS
69	69	100	100	100.0	75307	PASS
70	69	0.00	2	0.5	366	PASS
127	198	10	80	40.7	103992	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	255277	PASS
199	198	5	9	6.6	16901	PASS
275	198	10	60	25.9	66000	PASS
365	198	1	100	3.3	8380	PASS
441	442	0.01	24	17.3	42189	PASS
442	198	50	100	95.5	243883	PASS
443	442	15	24	18.4	44925	PASS

Quantitation Report (Qedit)

Data Path : I:\8270SIM\SV128\240303\
Data File : deg0303.D
Acq On : 03 Mar 2024 07:40 am
Operator : SV128:jjw
Sample : WG1891581-4,32,, dftpp sv128
Misc : WG1891581,,ical20676
ALS Vial : 48 Sample Multiplier: 1

Quant Time: Mar 03 07:55:31 2024
Quant Method : I:\8270SIM\SV128\240303\dftppsv128.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Feb 24 14:20:46 2024
Response via : Continuing Cal File: C:\ENVDEMO\BNADATA\DLWB002.D





TIC: deg0303.D\data.ms

(3) benzidine (T)

5.724min (+ 0.028) 95.55

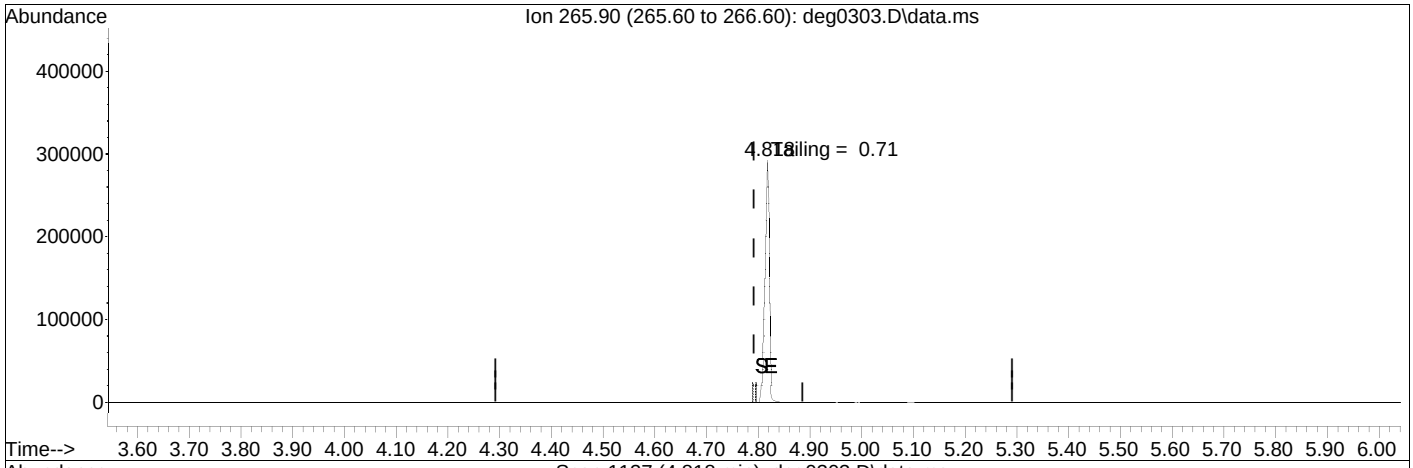
response 972712

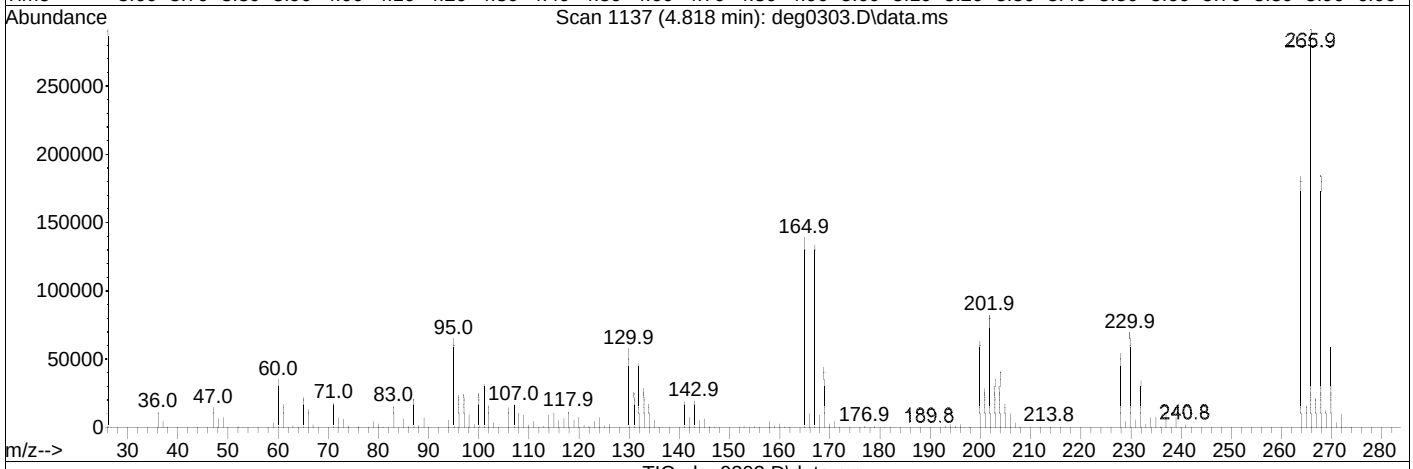
Ion	Exp%	Act%
184.10	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\8270SIM\SV128\240303\
Data File : deg0303.D
Acq On : 03 Mar 2024 07:40 am
Operator : SV128:jjw
Sample : WG1891581-5,32,, dftpp sv128
Misc : WG1891581,,ical20676
ALS Vial : 48 Sample Multiplier: 1

Quant Time: Mar 03 07:55:31 2024
Quant Method : I:\8270SIM\SV128\240303\dftppsv128.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Feb 24 14:20:46 2024
Response via : Continuing Cal File: C:\ENVDEMO\BNADATA\DLWB002.D





TIC: deg0303.D\data.ms

(1) pentachlorophenol (T)

4.818min (+ 0.026) 80.57

response 169235

Ion	Exp%	Act%
265.90	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Alpha Geoscience	**Lab Number**	: L2410579		
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116		
Instrument ID	: SV128	**Calibration Date**	: 03/03/24 07:58		
Lab File ID	: CCV0303	**Init. Calib. Date(s)**	: 12/11/23	12/13/23	
Sample No	: WG1891581-3	**Init. Calib. Times**	: 13:27	07:14	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,4-Dichlorobenzene-d4	1	1	.05	0	20	89	0
2-Fluorophenol	1.007	1.022	.05	-1.5	20	85	0
Phenol-d6	1.177	1.276	.05	-8.4	20	91	0
Bis(2-chloroethyl)ether	1.005	1.046	.05	-4.1	20	91	0
n-nitrosodi-n-propylamine	0.702	0.719	.05	-2.4	20	86	0
Hexachloroethane	0.478	0.472	.05	1.3	20	85	0
Nitrobenzene-d5	0.951	1.137	.05	-19.6	20	99	0
Naphthalene-d8	1	1	.05	0	20	89	0
Naphthalene	1.026	1.033	.05	-0.7	20	87	0
Hexachlorobutadiene	0.235	0.236	.05	-0.4	20	89	0
2-Methylnaphthalene	0.655	0.692	.05	-5.6	20	89	0
1-Methylnaphthalene	0.617	0.658	.05	-6.6	20	90	0
2-Fluorobiphenyl	0.848	0.932	.05	-9.9	20	91	0
2-Chloronaphthalene	0.713	0.761	.05	-6.7	20	89	0
2,6-Dinitrotoluene	1000	1328.905	.05	-32.9*	20	124	0
Acenaphthylene	1.057	1.163	.05	-10	20	90	0
Acenaphthene-d10	1	1	.05	0	20	94	0
Acenaphthene	1.352	1.345	.05	0.5	20	91	0
2,4-Dinitrotoluene	1000	1285.041	.05	-28.5*	20	131	0
Fluorene	1.365	1.452	.05	-6.4	20	94	0
2,4,6-Tribromophenol	0.2	0.243	.05	-21.5*	20	108	0
Phenanthrene-d10	1	1	.05	0	20	97	0
4,6-Dinitro-o-cresol	1000	1105.449	.05	-10.5	20	125	0
Hexachlorobenzene	0.266	0.248	.05	6.8	20	91	0
Pentachlorophenol	1000	962.628	.05	3.7	20	90	0
Phenanthrene	1.082	1.025	.05	5.3	20	91	0
Anthracene	1.045	1.077	.05	-3.1	20	98	0
Fluoranthene	1.188	1.256	.05	-5.7	20	97	0
Pyrene	1.23	1.34	.05	-8.9	20	97	0
4-Terphenyl-d14	0.833	0.923	.05	-10.8	20	99	0
Chrysene-d12	1	1	.05	0	20	98	0
Benzo[a]anthracene	1000	951.689	.05	4.8	20	95	0
3,3'-Dichlorobenzidine	1000	902.375	.05	9.8	20	97	0
Chrysene	1.379	1.369	.05	0.7	20	94	0
Bis(2-ethylhexyl)phthalate	1000	961.789	.05	3.8	20	110	0
Perylene-d12	1	1	.05	0	20	90	0
Benzo[b]fluoranthene	1.239	1.236	.05	0.2	20	89	0
Benzo[k]fluoranthene	1.153	1.204	.05	-4.4	20	92	0
Benzo[a]pyrene	1.091	1.121	.05	-2.7	20	89	0
Indeno[1,2,3-cd]pyrene	1.091	1.058	.05	3	20	84	0
Dibenzo[a,h]anthracene	1.059	1.087	.05	-2.6	20	84	0
Benzo[g,h,i]perylene	1.134	1.047	.05	7.7	20	77	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Alpha Geoscience	**Lab Number**	: L2410579		
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116		
Instrument ID	: SV119	**Calibration Date**	: 03/04/24 07:40		
Lab File ID	: CCV0304	**Init. Calib. Date(s)**	: 12/07/23	12/07/23	
Sample No	: WG1891805-3	**Init. Calib. Times**	: 13:10	15:42	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,4-Dichlorobenzene-d4	1	1	.05	0	20	88	0
2-Fluorophenol	1.094	1.209	.05	-10.5	20	90	0
Phenol-d6	1.311	1.384	.05	-5.6	20	91	0
Bis(2-chloroethyl)ether	1.115	1.153	.05	-3.4	20	90	0
n-nitrosodi-n-propylamine	0.667	0.678	.05	-1.6	20	86	0
Hexachloroethane	0.495	0.514	.05	-3.8	20	90	0
Nitrobenzene-d5	0.995	1.071	.05	-7.6	20	90	0
Naphthalene-d8	1	1	.05	0	20	86	0
Naphthalene	0.955	0.995	.05	-4.2	20	85	0
Hexachlorobutadiene	0.206	0.232	.05	-12.6	20	92	0
2-Methylnaphthalene	0.706	0.707	.05	-0.1	20	81	0
1-Methylnaphthalene	0.651	0.639	.05	1.8	20	81	0
2-Fluorobiphenyl	0.893	0.869	.05	2.7	20	80	0
2-Chloronaphthalene	0.752	0.739	.05	1.7	20	82	0
2,6-Dinitrotoluene	0.17	0.169	.05	0.6	20	83	0
Acenaphthylene	1.118	1.113	.05	0.4	20	80	0
Acenaphthene-d10	1	1	.05	0	20	84	0
Acenaphthene	1.237	1.258	.05	-1.7	20	80	0
2,4-Dinitrotoluene	0.369	0.394	.05	-6.8	20	82	0
Fluorene	1.478	1.492	.05	-0.9	20	79	0
2,4,6-Tribromophenol	0.221	0.227	.05	-2.7	20	79	0
Phenanthrene-d10	1	1	.05	0	20	81	0
4,6-Dinitro-o-cresol	1000	827.925	.05	17.2	20	71	0
Hexachlorobenzene	0.259	0.252	.05	2.7	20	75	0
Pentachlorophenol	1000	725.011	.05	27.5*	20	61	0
Phenanthrene	1.016	1.007	.05	0.9	20	76	0
Anthracene	1.008	1.025	.05	-1.7	20	78	0
Fluoranthene	1.339	1.287	.05	3.9	20	73	0
Pyrene	1.376	1.325	.05	3.7	20	74	0
4-Terphenyl-d14	0.981	0.761	.05	22.4*	20	61	0
Chrysene-d12	1	1	.05	0	20	69	0
Benzo[a]anthracene	1000	1090.528	.05	-9.1	20	68	0
3,3'-Dichlorobenzidine	0.604	0.572	.05	5.3	20	63	0
Chrysene	1.32	1.412	.05	-7	20	71	0
Bis(2-ethylhexyl)phthalate	1000	819.991	.05	18	20	67	0
Perylene-d12	1	1	.05	0	20	64	0
Benzo[b]fluoranthene	1.397	1.455	.05	-4.2	20	62	0
Benzo[k]fluoranthene	1.327	1.405	.05	-5.9	20	66	0
Benzo[a]pyrene	1.23	1.315	.05	-6.9	20	65	0
Indeno[1,2,3-cd]pyrene	1.337	1.342	.05	-0.4	20	61	0
Dibenzo[a,h]anthracene	1.244	1.185	.05	4.7	20	58	0
Benzo[g,h,i]perylene	1.36	1.328	.05	2.4	20	60	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Alpha Geoscience	**Lab Number**	: L2410579		
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116		
Instrument ID	: SV119	**Calibration Date**	: 03/05/24 06:33		
Lab File ID	: CCV0305	**Init. Calib. Date(s)**	: 12/07/23	12/07/23	
Sample No	: WG1892203-3	**Init. Calib. Times**	: 13:10	15:42	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,4-Dichlorobenzene-d4	1	1	.05	0	20	82	0
2-Fluorophenol	1.094	1.197	.05	-9.4	20	83	0
Phenol-d6	1.311	1.379	.05	-5.2	20	84	0
Bis(2-chloroethyl)ether	1.115	1.152	.05	-3.3	20	83	0
n-nitrosodi-n-propylamine	0.667	0.703	.05	-5.4	20	83	0
Hexachloroethane	0.495	0.52	.05	-5.1	20	84	0
Nitrobenzene-d5	0.995	1.089	.05	-9.4	20	84	0
Naphthalene-d8	1	1	.05	0	20	80	0
Naphthalene	0.955	0.991	.05	-3.8	20	80	0
Hexachlorobutadiene	0.206	0.237	.05	-15	20	88	0
2-Methylnaphthalene	0.706	0.72	.05	-2	20	77	0
1-Methylnaphthalene	0.651	0.644	.05	1.1	20	77	0
2-Fluorobiphenyl	0.893	0.901	.05	-0.9	20	77	0
2-Chloronaphthalene	0.752	0.756	.05	-0.5	20	79	0
2,6-Dinitrotoluene	0.17	0.186	.05	-9.4	20	86	0
Acenaphthylene	1.118	1.158	.05	-3.6	20	78	0
Acenaphthene-d10	1	1	.05	0	20	81	0
Acenaphthene	1.237	1.261	.05	-1.9	20	78	0
2,4-Dinitrotoluene	0.369	0.435	.05	-17.9	20	88	0
Fluorene	1.478	1.522	.05	-3	20	78	0
2,4,6-Tribromophenol	0.221	0.246	.05	-11.3	20	84	0
Phenanthrene-d10	1	1	.05	0	20	83	0
4,6-Dinitro-o-cresol	1000	986.317	.05	1.4	20	88	0
Hexachlorobenzene	0.259	0.255	.05	1.5	20	78	0
Pentachlorophenol	1000	777.078	.05	22.3*	20	67	0
Phenanthrene	1.016	1.022	.05	-0.6	20	79	0
Anthracene	1.008	1.034	.05	-2.6	20	80	0
Fluoranthene	1.339	1.392	.05	-4	20	80	0
Pyrene	1.376	1.438	.05	-4.5	20	82	0
4-Terphenyl-d14	0.981	0.853	.05	13	20	69	0
Chrysene-d12	1	1	.05	0	20	80	0
Benzo[a]anthracene	1000	1124.001	.05	-12.4	20	82	0
3,3'-Dichlorobenzidine	0.604	0.618	.05	-2.3	20	79	0
Chrysene	1.32	1.413	.05	-7	20	83	0
Bis(2-ethylhexyl)phthalate	1000	957.264	.05	4.3	20	92	0
Perylene-d12	1	1	.05	0	20	78	0
Benzo[b]fluoranthene	1.397	1.486	.05	-6.4	20	77	0
Benzo[k]fluoranthene	1.327	1.445	.05	-8.9	20	82	0
Benzo[a]pyrene	1.23	1.364	.05	-10.9	20	81	0
Indeno[1,2,3-cd]pyrene	1.337	1.434	.05	-7.3	20	78	0
Dibenzo[a,h]anthracene	1.244	1.266	.05	-1.8	20	75	0
Benzo[g,h,i]perylene	1.36	1.368	.05	-0.6	20	74	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Alpha Geoscience	**Lab Number**	: L2410579		
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116		
Instrument ID	: SV128	**Calibration Date**	: 03/05/24 06:57		
Lab File ID	: CCV0305A	**Init. Calib. Date(s)**	: 12/11/23	12/13/23	
Sample No	: WG1892213-3	**Init. Calib. Times**	: 13:27	07:14	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,4-Dichlorobenzene-d4	1	1	.05	0	20	52	0
2-Fluorophenol	1.007	0.966	.05	4.1	20	48	0
Phenol-d6	1.177	1.296	.05	-10.1	20	55	0
Bis(2-chloroethyl)ether	1.005	1.094	.05	-8.9	20	56	0
n-nitrosodi-n-propylamine	0.702	0.78	.05	-11.1	20	55	0
Hexachloroethane	0.478	0.463	.05	3.1	20	49	0
Nitrobenzene-d5	0.951	1.199	.05	-26.1*	20	62	0
Naphthalene-d8	1	1	.05	0	20	56	0
Naphthalene	1.026	1.033	.05	-0.7	20	55	0
Hexachlorobutadiene	0.235	0.227	.05	3.4	20	55	0
2-Methylnaphthalene	0.655	0.723	.05	-10.4	20	59	0
1-Methylnaphthalene	0.617	0.672	.05	-8.9	20	59	0
2-Fluorobiphenyl	0.848	0.989	.05	-16.6	20	62	0
2-Chloronaphthalene	0.713	0.828	.05	-16.1	20	62	0
2,6-Dinitrotoluene	1000	1588.617	.05	-58.9*	20	95	0
Acenaphthylene	1.057	1.261	.05	-19.3	20	62	0
Acenaphthene-d10	1	1	.05	0	20	67	0
Acenaphthene	1.352	1.332	.05	1.5	20	64	0
2,4-Dinitrotoluene	1000	1360.545	.05	-36.1*	20	98	0
Fluorene	1.365	1.51	.05	-10.6	20	69	0
2,4,6-Tribromophenol	0.2	0.257	.05	-28.5*	20	80	0
Phenanthrene-d10	1	1	.05	0	20	78	0
4,6-Dinitro-o-cresol	1000	1167.879	.05	-16.8	20	107	0
Hexachlorobenzene	0.266	0.244	.05	8.3	20	72	0
Pentachlorophenol	1000	1028.447	.05	-2.8	20	78	0
Phenanthrene	1.082	1.042	.05	3.7	20	75	0
Anthracene	1.045	1.03	.05	1.4	20	75	0
Fluoranthene	1.188	1.345	.05	-13.2	20	84	0
Pyrene	1.23	1.465	.05	-19.1	20	85	0
4-Terphenyl-d14	0.833	1.023	.05	-22.8*	20	89	0
Chrysene-d12	1	1	.05	0	20	96	0
Benzo[a]anthracene	1000	922.507	.05	7.7	20	90	0
3,3'-Dichlorobenzidine	1000	843.538	.05	15.6	20	88	0
Chrysene	1.379	1.37	.05	0.7	20	92	0
Bis(2-ethylhexyl)phthalate	1000	806.686	.05	19.3	20	89	0
Perylene-d12	1	1	.05	0	20	92	0
Benzo[b]fluoranthene	1.239	1.231	.05	0.6	20	90	0
Benzo[k]fluoranthene	1.153	1.184	.05	-2.7	20	92	0
Benzo[a]pyrene	1.091	1.092	.05	-0.1	20	89	0
Indeno[1,2,3-cd]pyrene	1.091	1.144	.05	-4.9	20	93	0
Dibenzo[a,h]anthracene	1.059	1.136	.05	-7.3	20	90	0
Benzo[g,h,i]perylene	1.134	1.127	.05	0.6	20	85	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Alpha Geoscience	**Lab Number**	: L2410579		
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116		
Instrument ID	: SV119	**Calibration Date**	: 03/05/24 21:16		
Lab File ID	: CCV0305N	**Init. Calib. Date(s)**	: 12/07/23	12/07/23	
Sample No	: WG1892573-3	**Init. Calib. Times**	: 13:10	15:42	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,4-Dichlorobenzene-d4	1	1	.05	0	20	87	0
2-Fluorophenol	1.094	1.149	.05	-5	20	85	0
Phenol-d6	1.311	1.357	.05	-3.5	20	88	0
Bis(2-chloroethyl)ether	1.115	1.12	.05	-0.4	20	87	0
n-nitrosodi-n-propylamine	0.667	0.708	.05	-6.1	20	89	0
Hexachloroethane	0.495	0.496	.05	-0.2	20	86	0
Nitrobenzene-d5	0.995	1.105	.05	-11.1	20	92	0
Naphthalene-d8	1	1	.05	0	20	88	0
Naphthalene	0.955	0.957	.05	-0.2	20	84	0
Hexachlorobutadiene	0.206	0.221	.05	-7.3	20	89	0
2-Methylnaphthalene	0.706	0.704	.05	0.3	20	82	0
1-Methylnaphthalene	0.651	0.629	.05	3.4	20	81	0
2-Fluorobiphenyl	0.893	0.868	.05	2.8	20	81	0
2-Chloronaphthalene	0.752	0.739	.05	1.7	20	84	0
2,6-Dinitrotoluene	0.17	0.19	.05	-11.8	20	95	0
Acenaphthylene	1.118	1.132	.05	-1.3	20	84	0
Acenaphthene-d10	1	1	.05	0	20	90	0
Acenaphthene	1.237	1.214	.05	1.9	20	84	0
2,4-Dinitrotoluene	0.369	0.441	.05	-19.5	20	99	0
Fluorene	1.478	1.492	.05	-0.9	20	85	0
2,4,6-Tribromophenol	0.221	0.244	.05	-10.4	20	92	0
Phenanthrene-d10	1	1	.05	0	20	95	0
4,6-Dinitro-o-cresol	1000	1010.711	.05	-1.1	20	104	0
Hexachlorobenzene	0.259	0.244	.05	5.8	20	86	0
Pentachlorophenol	1000	826.978	.05	17.3	20	82	0
Phenanthrene	1.016	0.982	.05	3.3	20	88	0
Anthracene	1.008	0.978	.05	3	20	87	0
Fluoranthene	1.339	1.333	.05	0.4	20	89	0
Pyrene	1.376	1.368	.05	0.6	20	91	0
4-Terphenyl-d14	0.981	0.806	.05	17.8	20	76	0
Chrysene-d12	1	1	.05	0	20	91	0
Benzo[a]anthracene	1000	1066.469	.05	-6.6	20	87	0
3,3'-Dichlorobenzidine	0.604	0.602	.05	0.3	20	87	0
Chrysene	1.32	1.345	.05	-1.9	20	89	0
Bis(2-ethylhexyl)phthalate	1000	913.333	.05	8.7	20	99	0
Perylene-d12	1	1	.05	0	20	85	0
Benzo[b]fluoranthene	1.397	1.45	.05	-3.8	20	82	0
Benzo[k]fluoranthene	1.327	1.368	.05	-3.1	20	84	0
Benzo[a]pyrene	1.23	1.304	.05	-6	20	85	0
Indeno[1,2,3-cd]pyrene	1.337	1.374	.05	-2.8	20	82	0
Dibenzo[a,h]anthracene	1.244	1.198	.05	3.7	20	77	0
Benzo[g,h,i]perylene	1.36	1.301	.05	4.3	20	77	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Alpha Geoscience	**Lab Number**	: L2410579		
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116		
Instrument ID	: SV119	**Calibration Date**	: 03/06/24 06:56		
Lab File ID	: CCV0306	**Init. Calib. Date(s)**	: 12/07/23	12/07/23	
Sample No	: WG1892736-3	**Init. Calib. Times**	: 13:10	15:42	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,4-Dichlorobenzene-d4	1	1	.05	0	20	105	0
2-Fluorophenol	1.094	1.188	.05	-8.6	20	105	0
Phenol-d6	1.311	1.43	.05	-9.1	20	112	0
Bis(2-chloroethyl)ether	1.115	1.206	.05	-8.2	20	112	0
n-nitrosodi-n-propylamine	0.667	0.772	.05	-15.7	20	116	0
Hexachloroethane	0.495	0.53	.05	-7.1	20	110	0
Nitrobenzene-d5	0.995	1.187	.05	-19.3	20	118	0
Naphthalene-d8	1	1	.05	0	20	107	0
Naphthalene	0.955	0.997	.05	-4.4	20	107	0
Hexachlorobutadiene	0.206	0.233	.05	-13.1	20	115	0
2-Methylnaphthalene	0.706	0.743	.05	-5.2	20	106	0
1-Methylnaphthalene	0.651	0.662	.05	-1.7	20	105	0
2-Fluorobiphenyl	0.893	0.927	.05	-3.8	20	106	0
2-Chloronaphthalene	0.752	0.777	.05	-3.3	20	107	0
2,6-Dinitrotoluene	0.17	0.208	.05	-22.4*	20	128	0
Acenaphthylene	1.118	1.217	.05	-8.9	20	110	0
Acenaphthene-d10	1	1	.05	0	20	110	0
Acenaphthene	1.237	1.278	.05	-3.3	20	107	0
2,4-Dinitrotoluene	0.369	0.477	.05	-29.3*	20	130	0
Fluorene	1.478	1.582	.05	-7	20	110	0
2,4,6-Tribromophenol	0.221	0.262	.05	-18.6	20	120	0
Phenanthrene-d10	1	1	.05	0	20	113	0
4,6-Dinitro-o-cresol	1000	1092.793	.05	-9.3	20	134	0
Hexachlorobenzene	0.259	0.261	.05	-0.8	20	108	0
Pentachlorophenol	1000	934.627	.05	6.5	20	110	0
Phenanthrene	1.016	1.023	.05	-0.7	20	108	0
Anthracene	1.008	1.04	.05	-3.2	20	110	0
Fluoranthene	1.339	1.377	.05	-2.8	20	109	0
Pyrene	1.376	1.401	.05	-1.8	20	110	0
4-Terphenyl-d14	0.981	0.829	.05	15.5	20	92	0
Chrysene-d12	1	1	.05	0	20	100	0
Benzo[a]anthracene	1000	1144.104	.05	-14.4	20	104	0
3,3'-Dichlorobenzidine	0.604	0.645	.05	-6.8	20	103	0
Chrysene	1.32	1.412	.05	-7	20	104	0
Bis(2-ethylhexyl)phthalate	1000	1011.732	.05	-1.2	20	122	0
Perylene-d12	1	1	.05	0	20	89	0
Benzo[b]fluoranthene	1.397	1.604	.05	-14.8	20	95	0
Benzo[k]fluoranthene	1.327	1.435	.05	-8.1	20	93	0
Benzo[a]pyrene	1.23	1.405	.05	-14.2	20	96	0
Indeno[1,2,3-cd]pyrene	1.337	1.455	.05	-8.8	20	91	0
Dibenzo[a,h]anthracene	1.244	1.243	.05	0.1	20	85	0
Benzo[g,h,i]perylene	1.36	1.337	.05	1.7	20	84	0

*** Value outside of QC limits.**

Evaluate Continuing Calibration Report

Data Path : I:\8270SIM\sv119\240304LVI\
Data File : ccv0304.D
Acq On : 04 Mar 2024 07:40 am
Operator : sv119:ah
Sample : WG1891805-3,32,, ICV 10475 (0303)
Misc : WG1891805,,ical20642
ALS Vial : 49 Sample Multiplier: 1

Quant Time: Mar 04 07:58:31 2024
Quant Method : I:\8270SIM\sv119\240304LVI\SIM-LVI_231207n_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Mar 04 07:58:52 2024
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	i	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	88	0.00
2	s	2-Fluorophenol	1.094	1.209	-10.5	90	0.00
3	s	Phenol-d6	1.311	1.384	-5.6	91	0.00
4	T	Bis(2-chloroethyl)ether	1.115	1.153	-3.4	90	0.00
5	T	n-nitrosodi-n-propylamine	0.667	0.678	-1.6	86	0.00
6	t	Hexachloroethane	0.495	0.514	-3.8	90	0.00
7	s	Nitrobenzene-d5	0.995	1.071	-7.6	90	0.00
8	i	Naphthalene-d8	1.000	1.000	0.0	86	0.00
9	t	Naphthalene	0.955	0.995	-4.2	85	0.00
10	t	Hexachlorobutadiene	0.206	0.232	-12.6	92	0.00
11	t	2-Methylnaphthalene	0.706	0.707	-0.1	81	0.00
12	t	1-Methylnaphthalene	0.651	0.639	1.8	81	0.00
13	s	2-Fluorobiphenyl	0.893	0.869	2.7	80	0.00
14	t	2-Chloronaphthalene	0.752	0.739	1.7	82	0.00
15	t	2,6-Dinitrotoluene	0.170	0.169	0.6	83	0.00
16	t	Acenaphthylene	1.118	1.113	0.4	80	0.00
17	i	Acenaphthene-d10	1.000	1.000	0.0	84	0.00
18	t	Acenaphthene	1.237	1.258	-1.7	80	0.00
19	t	2,4-Dinitrotoluene	0.369	0.394	-6.8	82	0.00
20	t	Fluorene	1.478	1.492	-0.9	79	0.00
21	s	2,4,6-Tribromophenol	0.221	0.227	-2.7	79	0.00
22	i	Phenanthrene-d10	1.000	1.000	0.0	81	0.00
23	T	4,6-Dinitro-o-cresol	*1000.000	827.925	17.2	71	0.00
24	t	Hexachlorobenzene	0.259	0.252	2.7	75	0.00
25	t	Pentachlorophenol	*1000.000	725.011	27.5#	61	0.00
26	t	Phenanthrene	1.016	1.007	0.9	76	0.00
27	t	Anthracene	1.008	1.025	-1.7	78	0.00
28	t	Fluoranthene	1.339	1.287	3.9	73	0.00
29	t	Pyrene	1.376	1.325	3.7	74	0.00
30	s	4-Terphenyl-d14	0.981	0.761	22.4#	61	0.00
31	i	Chrysene-d12	1.000	1.000	0.0	69	0.00
32	t	Benzo[a]anthracene	*1000.000	1090.528	-9.1	68	0.00
33	t	3,3'-Dichlorobenzidine	0.604	0.572	5.3	63	0.00
34	t	Chrysene	1.320	1.412	-7.0	71	0.00
35	T	Bis(2-ethylhexyl)phthalate	*1000.000	819.991	18.0	67	0.00

Evaluate Continuing Calibration Report

Data Path : I:\8270SIM\sv119\240304LVI\
Data File : ccv0304.D
Acq On : 04 Mar 2024 07:40 am
Operator : sv119:ah
Sample : WG1891805-3,32,, ICV 10475 (0303)
Misc : WG1891805,,ical20642
ALS Vial : 49 Sample Multiplier: 1

Quant Time: Mar 04 07:58:31 2024
Quant Method : I:\8270SIM\sv119\240304LVI\SIM-LVI_231207n_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Mar 04 07:58:52 2024
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
36	i	Perylene-d12	1.000	1.000	0.0	64	0.00
37	t	Benzo[b]fluoranthene	1.397	1.455	-4.2	62	0.00
38	t	Benzo[k]fluoranthene	1.327	1.405	-5.9	66	0.00
39	t	Benzo[a]pyrene	1.230	1.315	-6.9	65	0.00
40	t	Indeno[1,2,3-cd]pyrene	1.337	1.342	-0.4	61	0.00
41	t	Dibenzo[a,h]anthracene	1.244	1.185	4.7	58	0.00
42	t	Benzo[g,h,i]perylene	1.360	1.328	2.4	60	0.00

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\240304LVI\
Data File : ccv0304.D
Acq On : 04 Mar 2024 07:40 am
Operator : sv119:ah
Sample : WG1891805-3,32,, ICV 10475 (0303)
Misc : WG1891805,,ical20642
ALS Vial : 49 Sample Multiplier: 1

Quant Time: Mar 04 07:58:31 2024
Quant Method : I:\8270SIM\sv119\240304LVI\SIM-LVI_231207n_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Mar 04 07:58:52 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.148	152	38923	4000.000	ng/ml	0.00
8) Naphthalene-d8	2.806	136	132574	4000.000	ng/ml	0.00
17) Acenaphthene-d10	3.773	164	74190	4000.000	ng/ml	0.00
22) Phenanthrene-d10	4.604	188	161045	4000.000	ng/ml	0.00
31) Chrysene-d12	6.145	240	136086	4000.000	ng/ml	0.00
36) Perylene-d12	7.254	264	138161	4000.000	ng/ml	0.00
System Monitoring Compounds						
2) 2-Fluorophenol	1.555	112	11760	1104.631	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 22.09%			
3) Phenol-d6	1.966	99	13465	1055.135	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 21.10%			
7) Nitrobenzene-d5	2.427	82	10423	1076.751	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 43.07%			
13) 2-Fluorobiphenyl	3.401	172	28790	972.343	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 38.89%			
21) 2,4,6-Tribromophenol	4.216	330	4207	1028.553	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 20.57%			
30) 4-Terphenyl-d14	5.521	244	30658	776.554	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 31.06%			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	2.014	93	11221	1033.927	ng/ml	96
5) n-nitrosodi-n-propylamine	2.349	70	6595	1016.042	ng/ml	93
6) Hexachloroethane	2.405	117	5000	1038.413	ng/ml	83
9) Naphthalene	2.817	128	32979	1041.793	ng/ml	100
10) Hexachlorobutadiene	2.891	225	7704	1130.053	ng/ml	100
11) 2-Methylnaphthalene	3.195	142	23425	1000.808	ng/ml	97
12) 1-Methylnaphthalene	3.250	142	21192	981.833	ng/ml	97
14) 2-Chloronaphthalene	3.464	162	24508	982.982	ng/ml	96
15) 2,6-Dinitrotoluene	3.655	165	5601	994.869	ng/ml#	75
16) Acenaphthylene	3.692	152	36897	995.848	ng/ml	98
18) Acenaphthene	3.790	153	23336	1017.465	ng/ml	98
19) 2,4-Dinitrotoluene	3.880	165	7306	1068.415	ng/ml#	78
20) Fluorene	4.080	166	27681	1009.705	ng/ml	97
23) 4,6-Dinitro-o-cresol	4.109	198	3805	827.925	ng/ml	96
24) Hexachlorobenzene	4.393	284	10153	975.202	ng/ml	96
25) Pentachlorophenol	4.505	266	4754	725.011	ng/ml	98
26) Phenanthrene	4.618	178	40545	991.121	ng/ml	99
27) Anthracene	4.646	178	41281	1017.595	ng/ml	100

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\240304LVI\
Data File : ccv0304.D
Acq On : 04 Mar 2024 07:40 am
Operator : sv119:ah
Sample : WG1891805-3,32,, ICV 10475 (0303)
Misc : WG1891805,,ical20642
ALS Vial : 49 Sample Multiplier: 1

Quant Time: Mar 04 07:58:31 2024
Quant Method : I:\8270SIM\sv119\240304LVI\SIM-LVI_231207n_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Mar 04 07:58:52 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
28) Fluoranthene	5.295	202	51821	961.154	ng/ml	96
29) Pyrene	5.424	202	53333	962.860	ng/ml	99
32) Benzo[a]anthracene	6.138	228	49730	1090.528	ng/ml	100
33) 3,3'-Dichlorobenzidine	6.130	252	19476	947.290	ng/ml	99
34) Chrysene	6.160	228	48030	1069.388	ng/ml	99
35) Bis(2-ethylhexyl)phtha...	6.170	149	24263	819.991	ng/ml	97
37) Benzo[b]fluoranthene	6.914	252	50252	1041.117	ng/ml	100
38) Benzo[k]fluoranthene	6.935	252	48531	1058.871	ng/ml	99
39) Benzo[a]pyrene	7.196	252	45424	1069.158	ng/ml	100
40) Indeno[1,2,3-cd]pyrene	8.384	276	46364	1004.098	ng/ml	99
41) Dibenzo[a,h]anthracene	8.420	278	40923	952.566	ng/ml	99
42) Benzo[g,h,i]perylene	8.702	276	45866	976.523	ng/ml	98

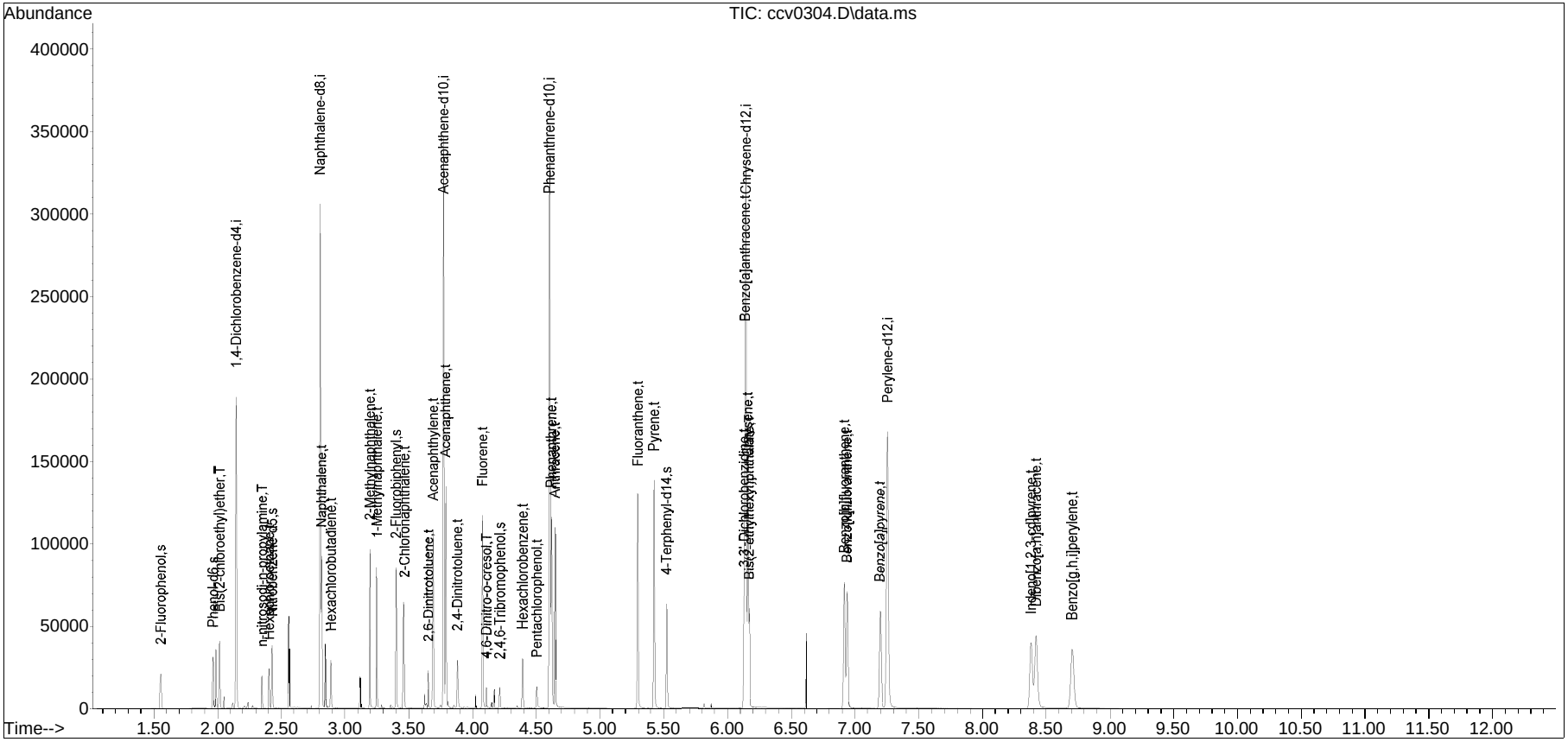
(#) = qualifier out of range (m) = manual integration (+) = signals summed

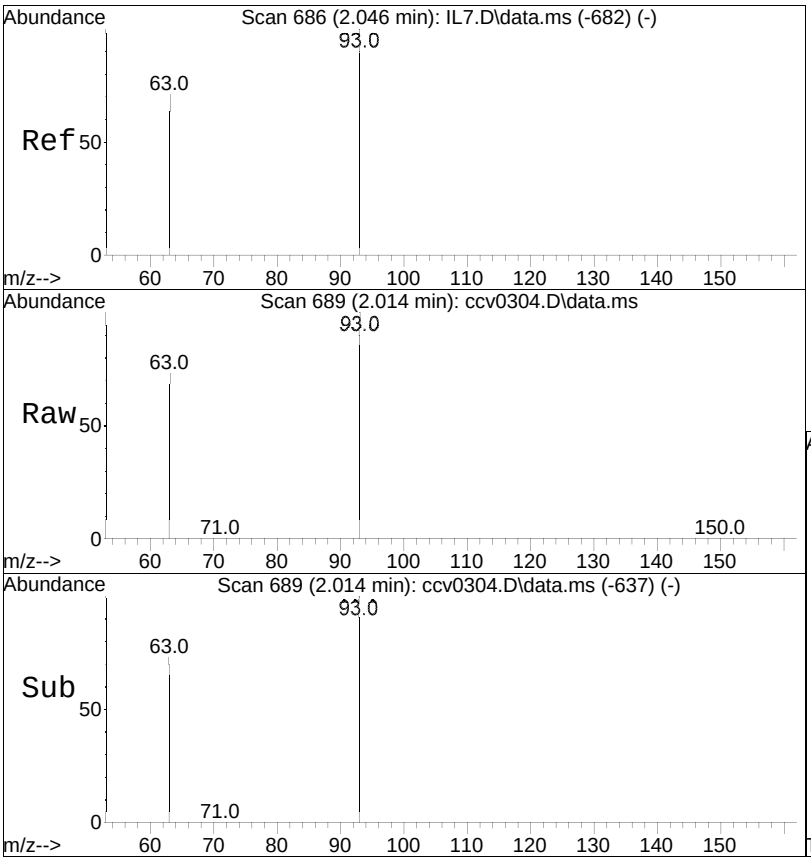
Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\240304LVI\
Data File : ccv0304.D
Acq On : 04 Mar 2024 07:40 am
Operator : sv119:ah
Sample : WG1891805-3,32,, ICV 10475 (0303)
Misc : WG1891805,,ical20642
ALS Vial : 49 Sample Multiplier: 1

Quant Time: Mar 04 07:58:31 2024
Quant Method : I:\8270SIM\sv119\240304LVI\SIM-LVI_231207n_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Mar 04 07:58:52 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

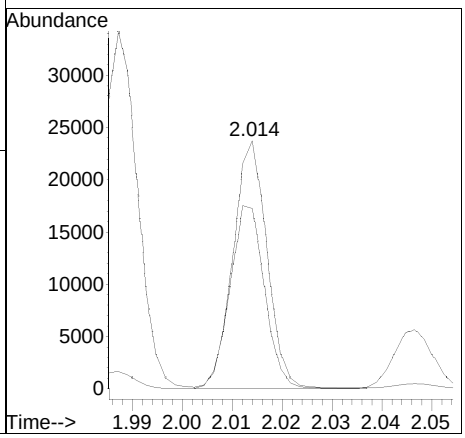


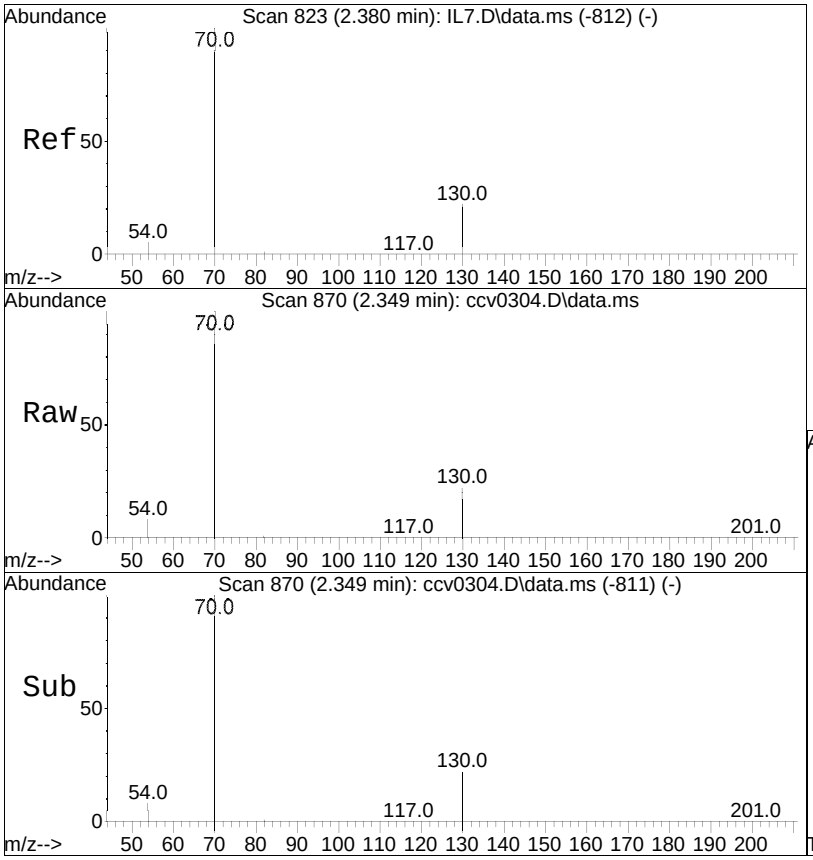


#4
Bis(2-chloroethyl)ether
Concen: 1033.93 ng/ml
RT: 2.014 min Scan# 689
Delta R.T. 0.000 min
Lab File: ccv0304.D
Acq: 04 Mar 2024 07:40 am

Tgt Ion: 93 Resp: 11221

Ion	Ratio	Lower	Upper
93	100		
63	75.1	62.6	94.0

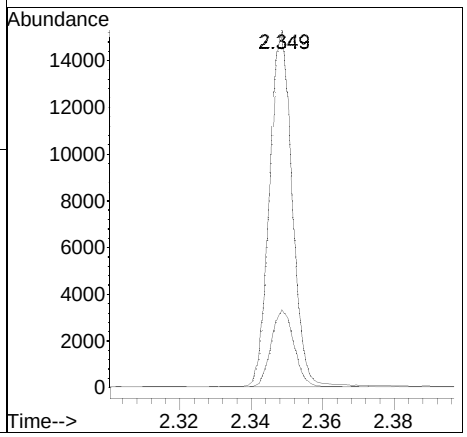


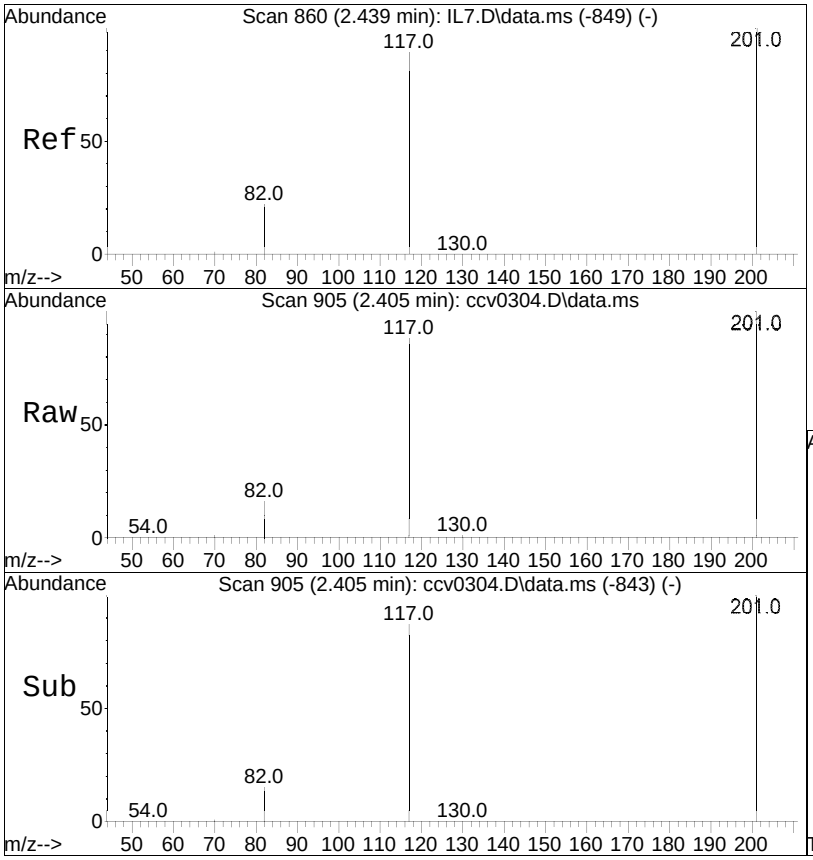


#5
n-nitrosodi-n-propylamine
Concen: 1016.04 ng/ml
RT: 2.349 min Scan# 870
Delta R.T. 0.000 min
Lab File: ccv0304.D
Acq: 04 Mar 2024 07:40 am

Tgt Ion: 70 Resp: 6595

Ion	Ratio	Lower	Upper
70	100		
130	21.8	15.0	22.6

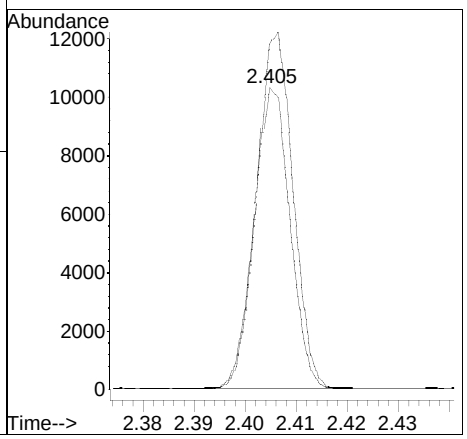


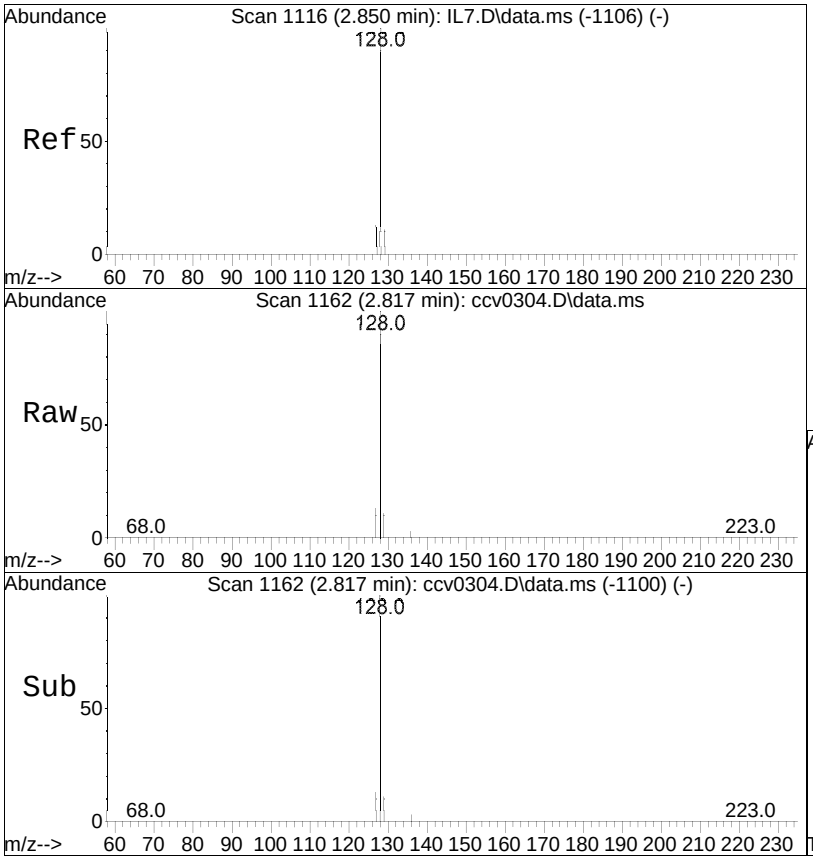


#6
Hexachloroethane
Concen: 1038.41 ng/ml
RT: 2.405 min Scan# 905
Delta R.T. 0.000 min
Lab File: ccv0304.D
Acq: 04 Mar 2024 07:40 am

Tgt Ion:117 Resp: 5000

Ion	Ratio	Lower	Upper
117	100		
201	119.5	81.5	122.3

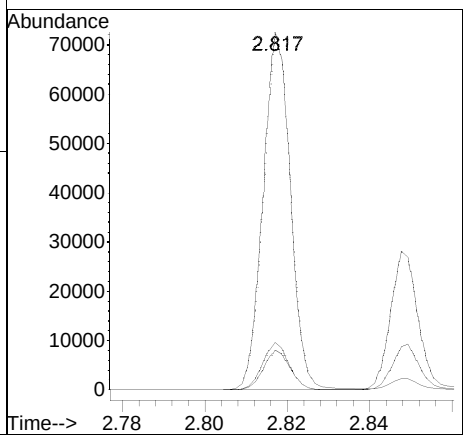


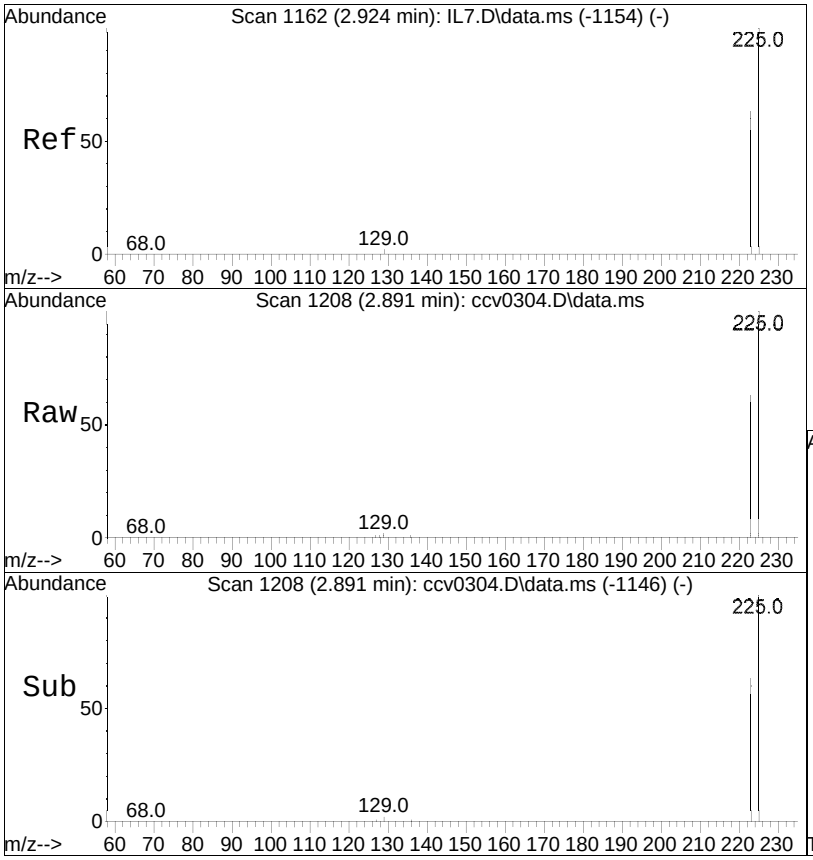


#9
Naphthalene
Concen: 1041.79 ng/ml
RT: 2.817 min Scan# 1162
Delta R.T. 0.000 min
Lab File: ccv0304.D
Acq: 04 Mar 2024 07:40 am

Tgt Ion:128 Resp: 32979

Ion	Ratio	Lower	Upper
128	100		
129	10.9	8.8	13.2
127	12.9	10.6	15.8

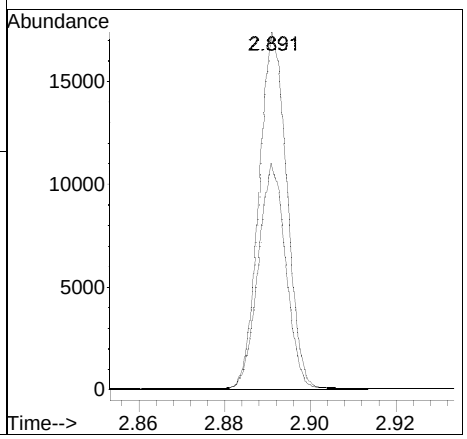


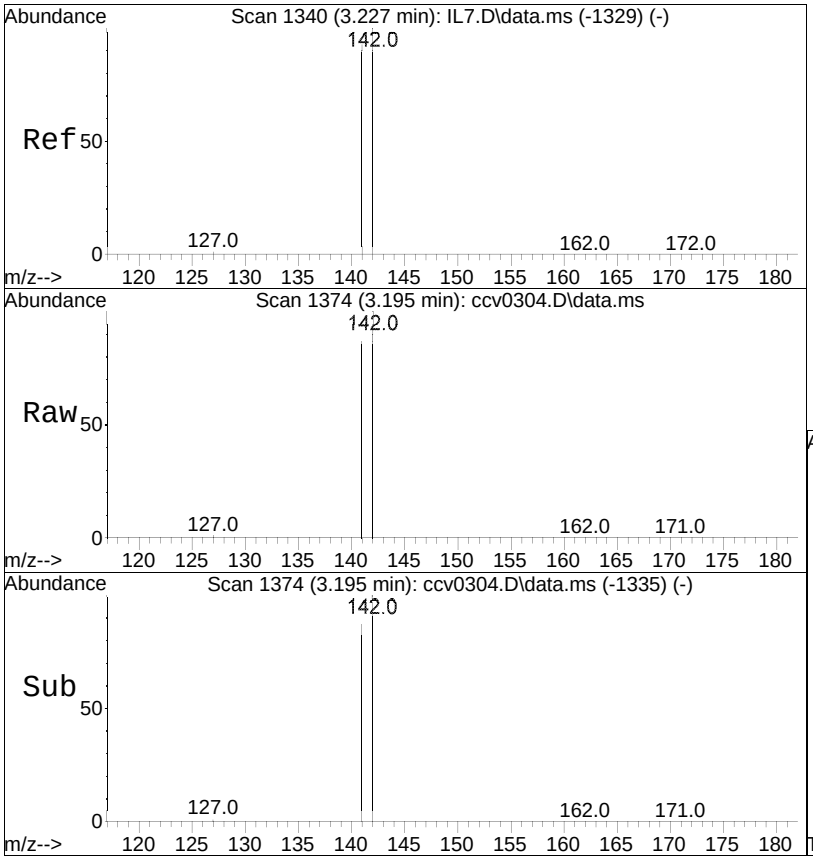


#10
Hexachlorobutadiene
Concen: 1130.05 ng/ml
RT: 2.891 min Scan# 1208
Delta R.T. 0.000 min
Lab File: ccv0304.D
Acq: 04 Mar 2024 07:40 am

Tgt Ion:225 Resp: 7704

Ion	Ratio	Lower	Upper
225	100		
223	62.6	50.1	75.1

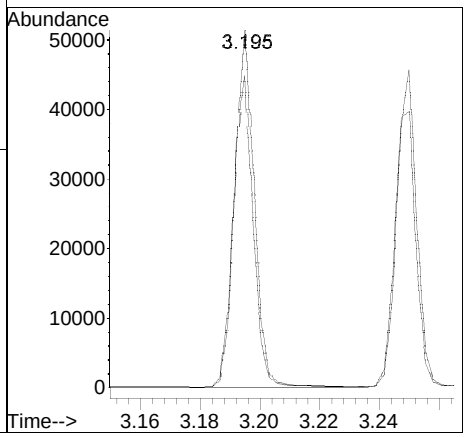


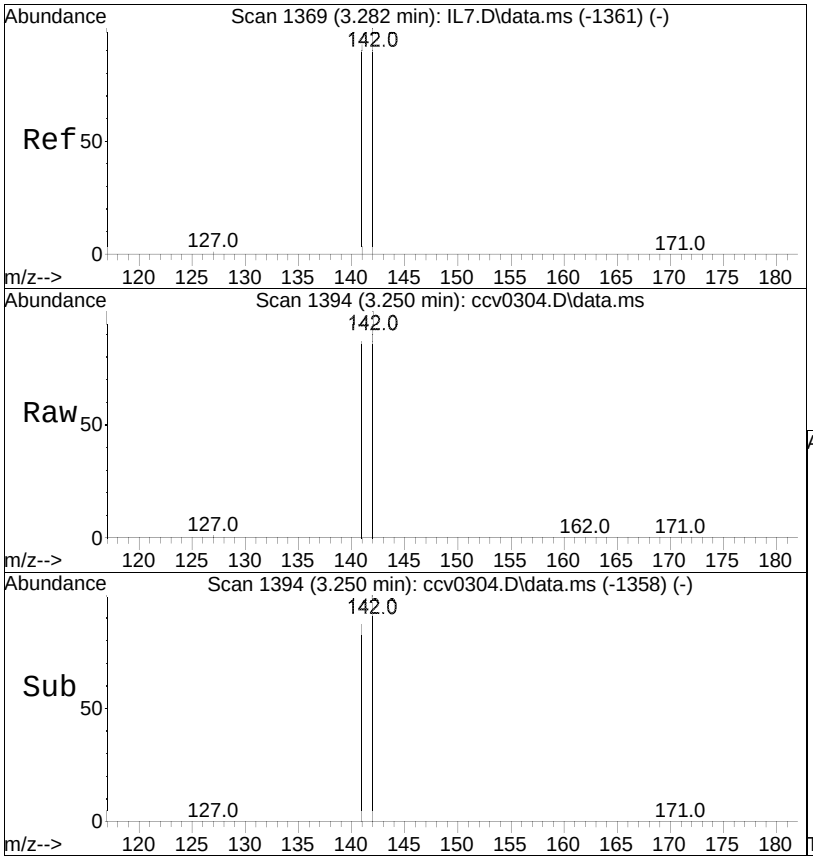


#11
2-Methylnaphthalene
Concen: 1000.81 ng/ml
RT: 3.195 min Scan# 1374
Delta R.T. 0.000 min
Lab File: ccv0304.D
Acq: 04 Mar 2024 07:40 am

Tgt Ion:142 Resp: 23425

Ion	Ratio	Lower	Upper
142	100		
141	89.8	74.1	111.1

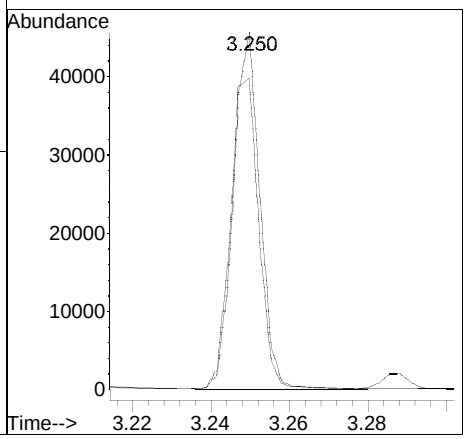


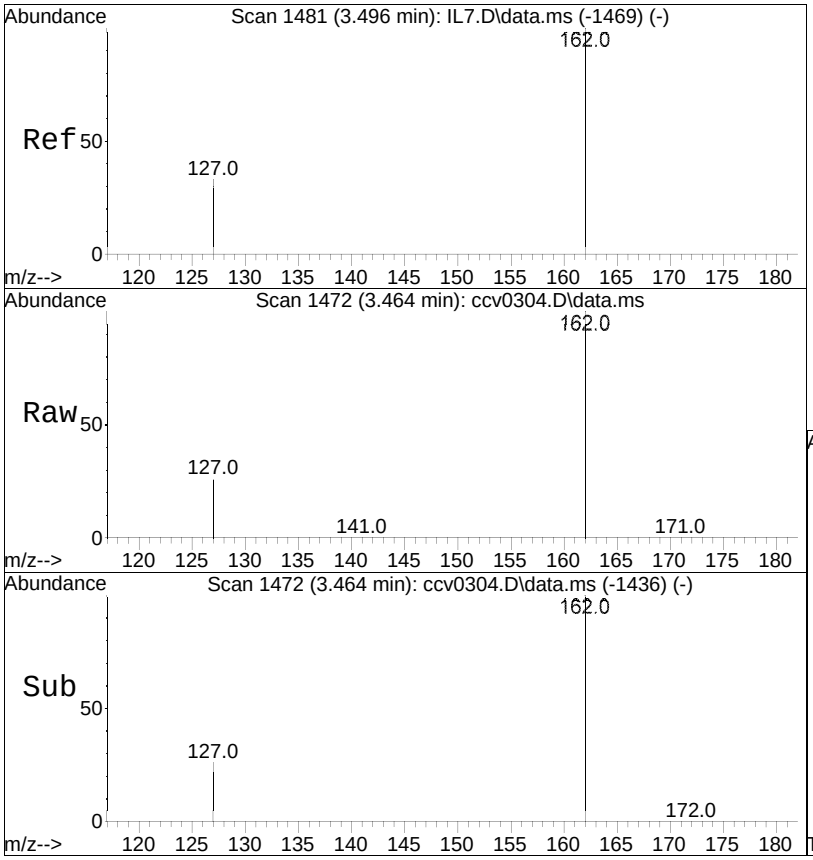


#12
1-Methylnaphthalene
Concen: 981.83 ng/ml
RT: 3.250 min Scan# 1394
Delta R.T. 0.000 min
Lab File: ccv0304.D
Acq: 04 Mar 2024 07:40 am

Tgt Ion:142 Resp: 21192

Ion	Ratio	Lower	Upper
142	100		
141	92.8	76.6	114.8

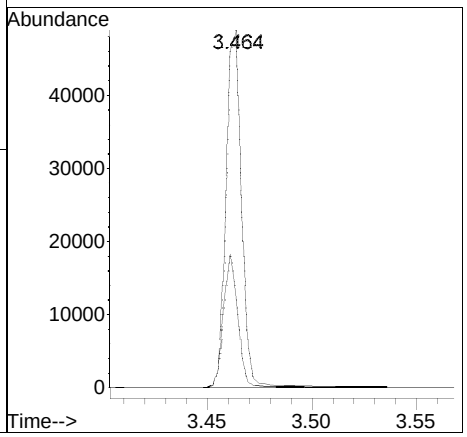


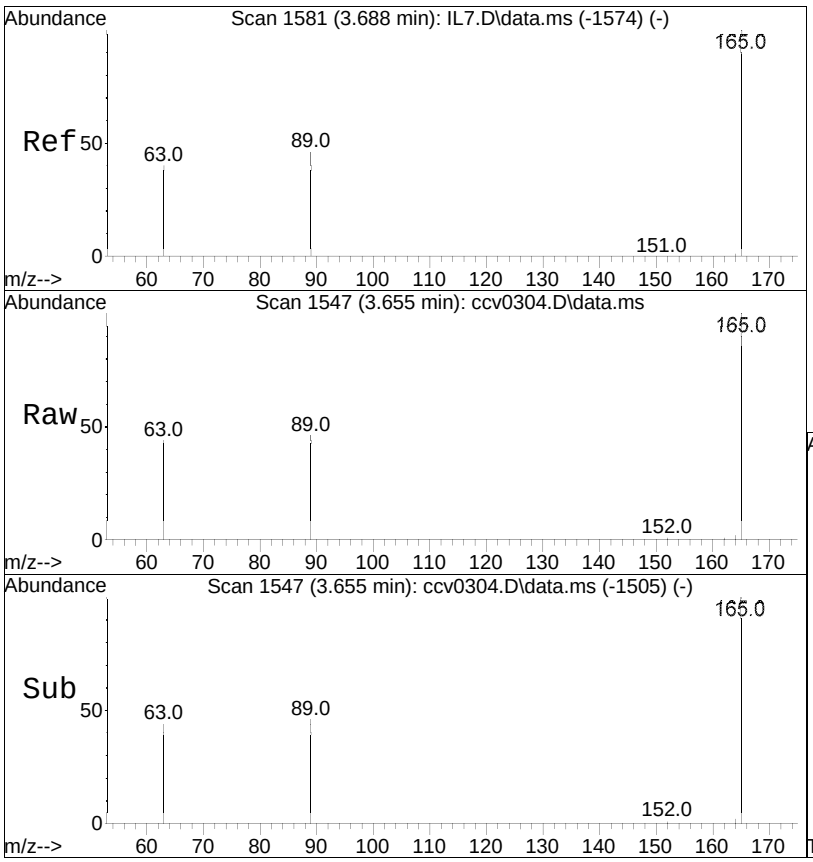


#14
2-Chloronaphthalene
Concen: 982.98 ng/ml
RT: 3.464 min Scan# 1472
Delta R.T. 0.000 min
Lab File: ccv0304.D
Acq: 04 Mar 2024 07:40 am

Tgt Ion:162 Resp: 24508

Ion	Ratio	Lower	Upper
162	100		
127	34.6	29.7	44.5

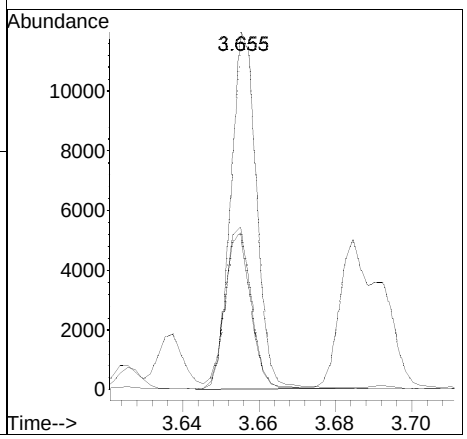


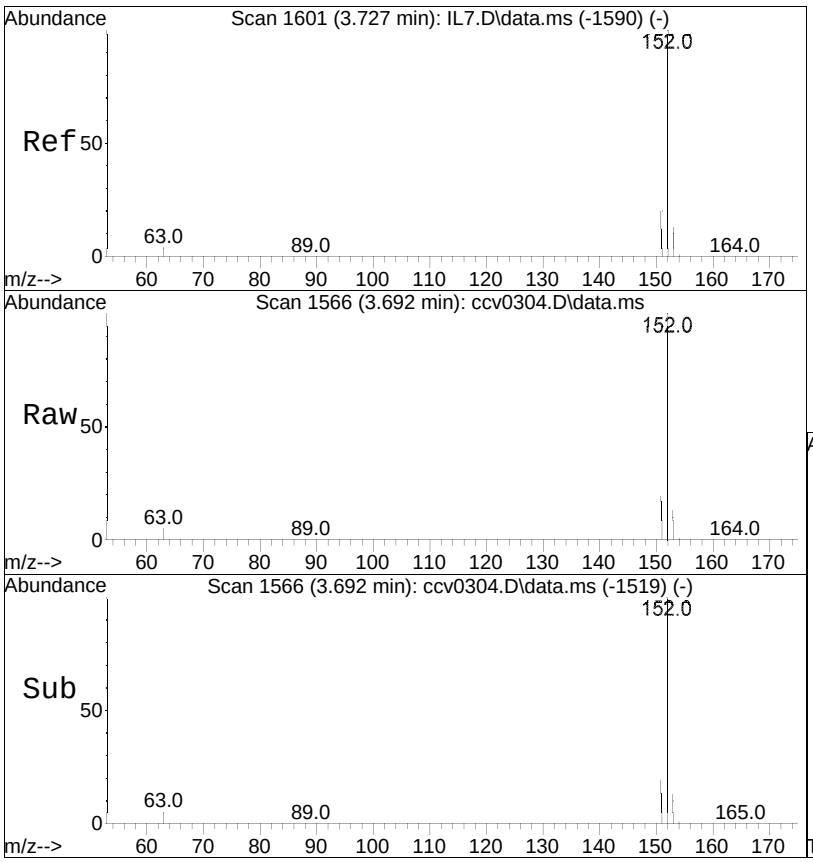


#15
2,6-Dinitrotoluene
Concen: 994.87 ng/ml
RT: 3.655 min Scan# 1547
Delta R.T. 0.000 min
Lab File: ccv0304.D
Acq: 04 Mar 2024 07:40 am

Tgt Ion:165 Resp: 5601

Ion	Ratio	Lower	Upper
165	100		
89	46.3	52.8	79.2#
63	43.9	50.9	76.3#

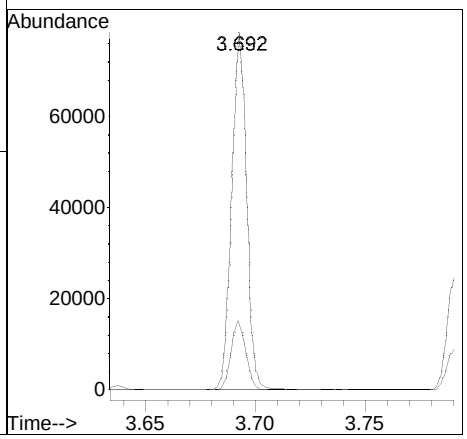


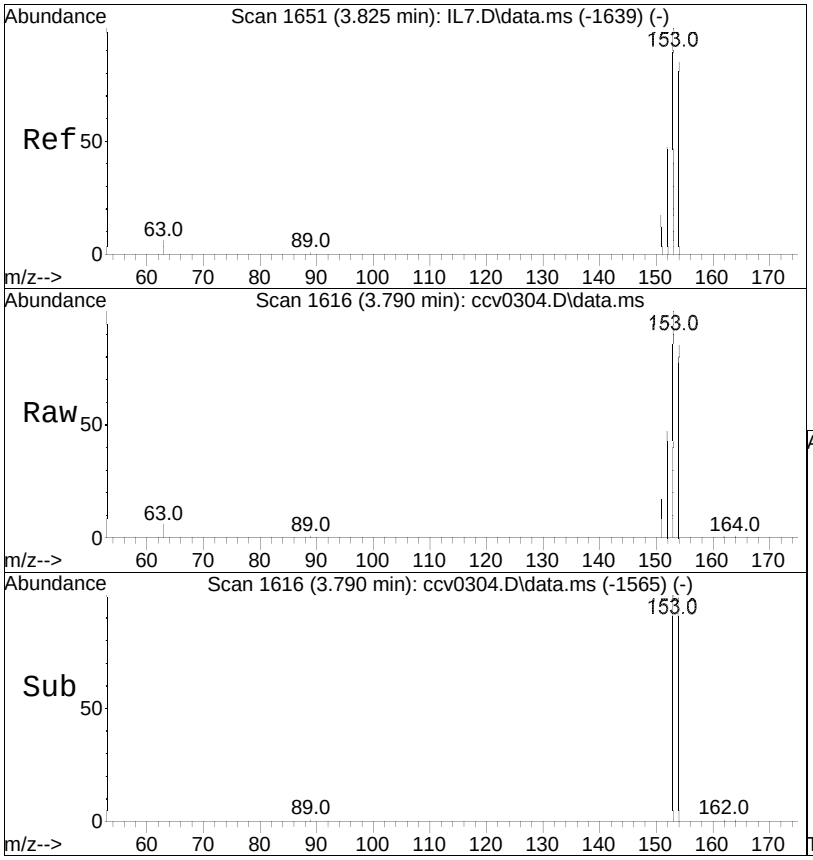


#16
Acenaphthylene
Concen: 995.85 ng/ml
RT: 3.692 min Scan# 1566
Delta R.T. 0.000 min
Lab File: ccv0304.D
Acq: 04 Mar 2024 07:40 am

Tgt Ion:152 Resp: 36897

Ion	Ratio	Lower	Upper
152	100		
151	19.3	16.0	24.0

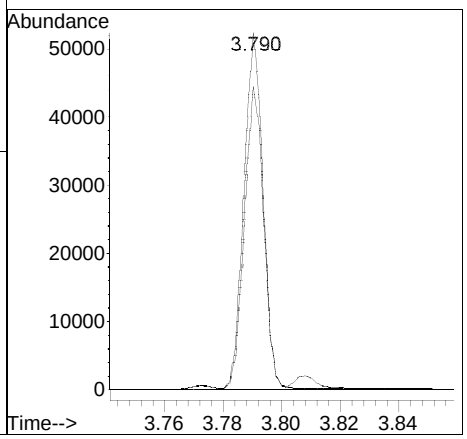


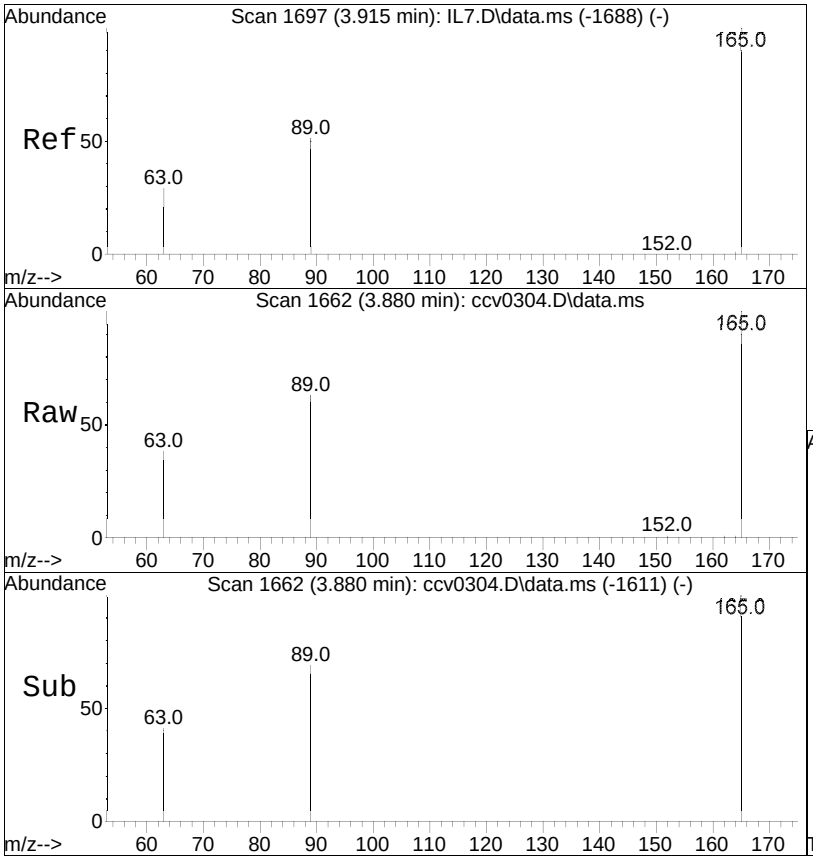


#18
Acenaphthene
Concen: 1017.46 ng/ml
RT: 3.790 min Scan# 1616
Delta R.T. 0.000 min
Lab File: ccv0304.D
Acq: 04 Mar 2024 07:40 am

Tgt Ion:153 Resp: 23336

Ion	Ratio	Lower	Upper
153	100		
154	85.1	66.9	100.3

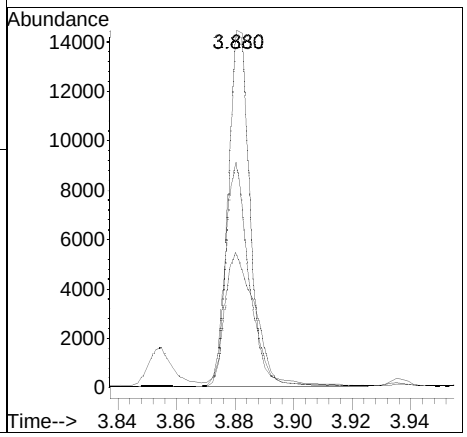


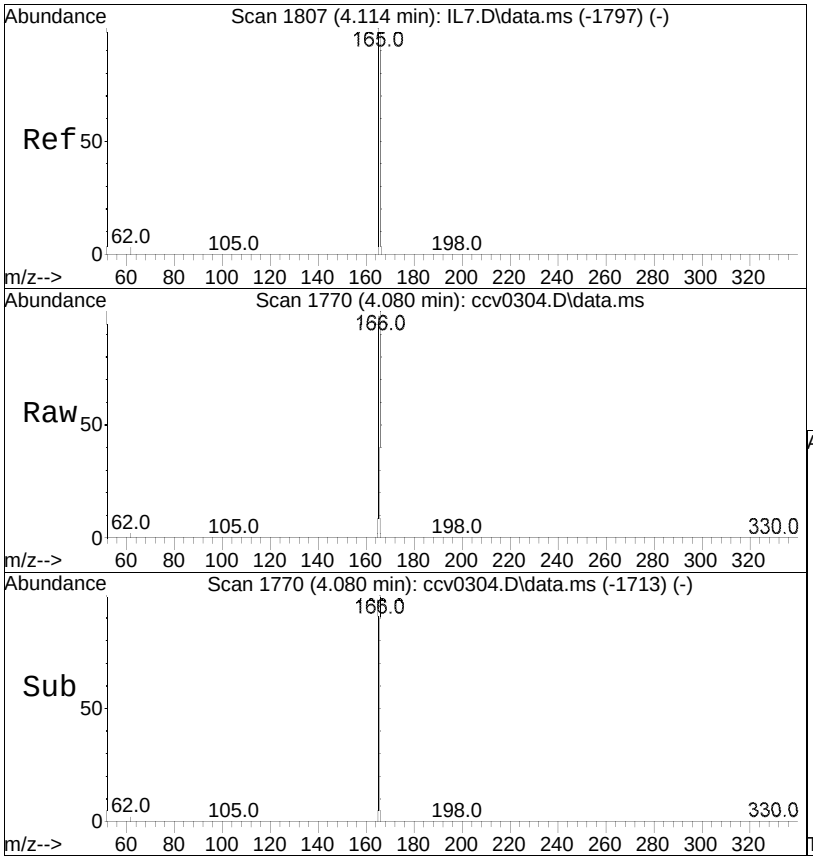


#19
2,4-Dinitrotoluene
Concen: 1068.42 ng/ml
RT: 3.880 min Scan# 1662
Delta R.T. 0.000 min
Lab File: ccv0304.D
Acq: 04 Mar 2024 07:40 am

Tgt Ion:165 Resp: 7306

Ion	Ratio	Lower	Upper
165	100		
89	69.7	80.1	120.1#
63	51.9	38.9	58.3

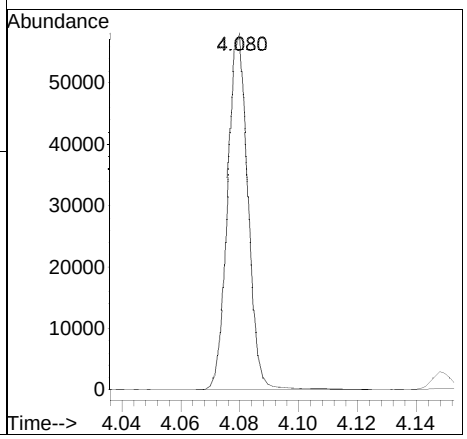


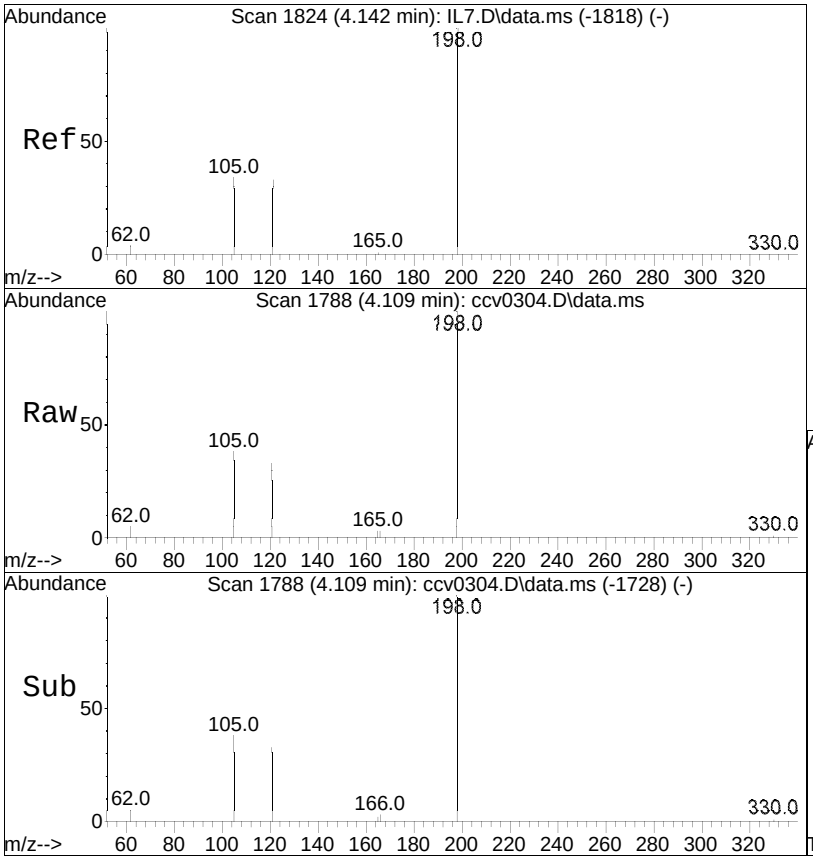


#20
Fluorene
Concen: 1009.70 ng/ml
RT: 4.080 min Scan# 1770
Delta R.T. 0.000 min
Lab File: ccv0304.D
Acq: 04 Mar 2024 07:40 am

Tgt Ion:166 Resp: 27681

Ion	Ratio	Lower	Upper
166	100		
165	100.5	82.9	124.3

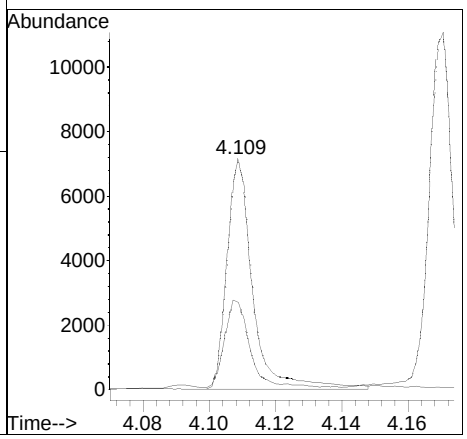


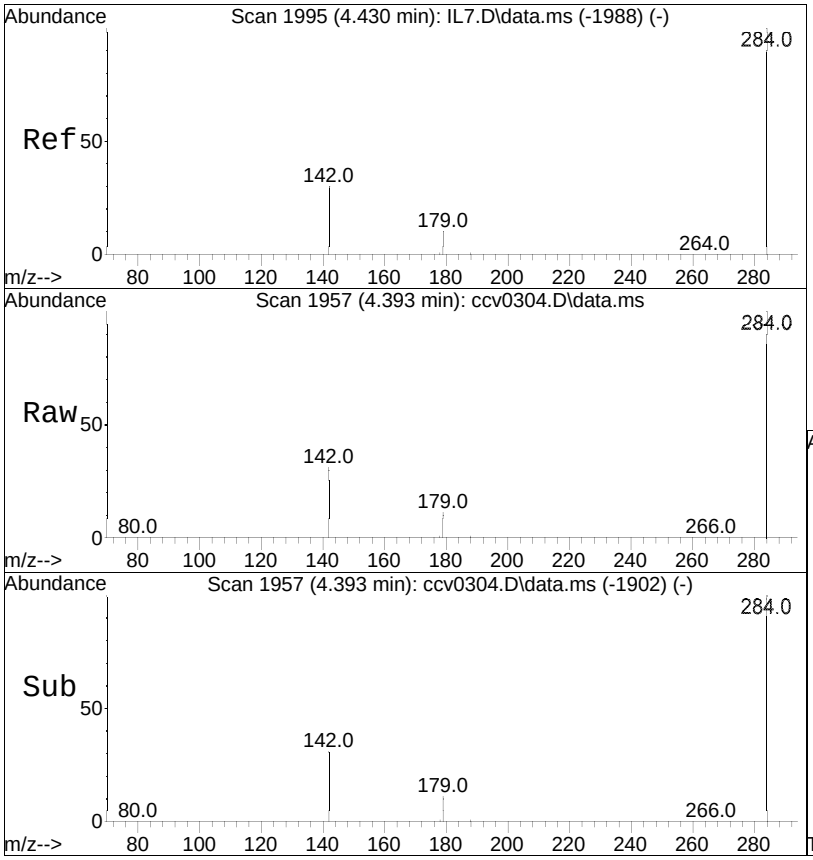


#23
4,6-Dinitro-o-cresol
Concen: 827.93 ng/ml
RT: 4.109 min Scan# 1788
Delta R.T. 0.000 min
Lab File: ccv0304.D
Acq: 04 Mar 2024 07:40 am

Tgt Ion:198 Resp: 3805

Ion	Ratio	Lower	Upper
198	100		
105	38.0	32.2	48.4

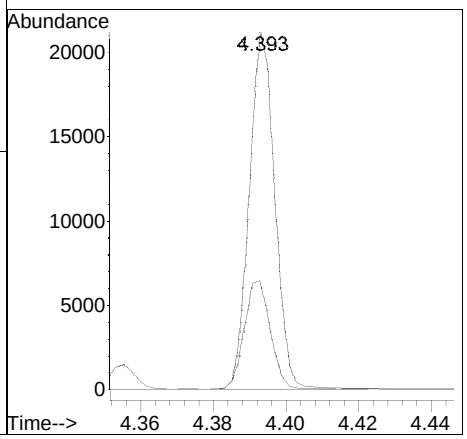


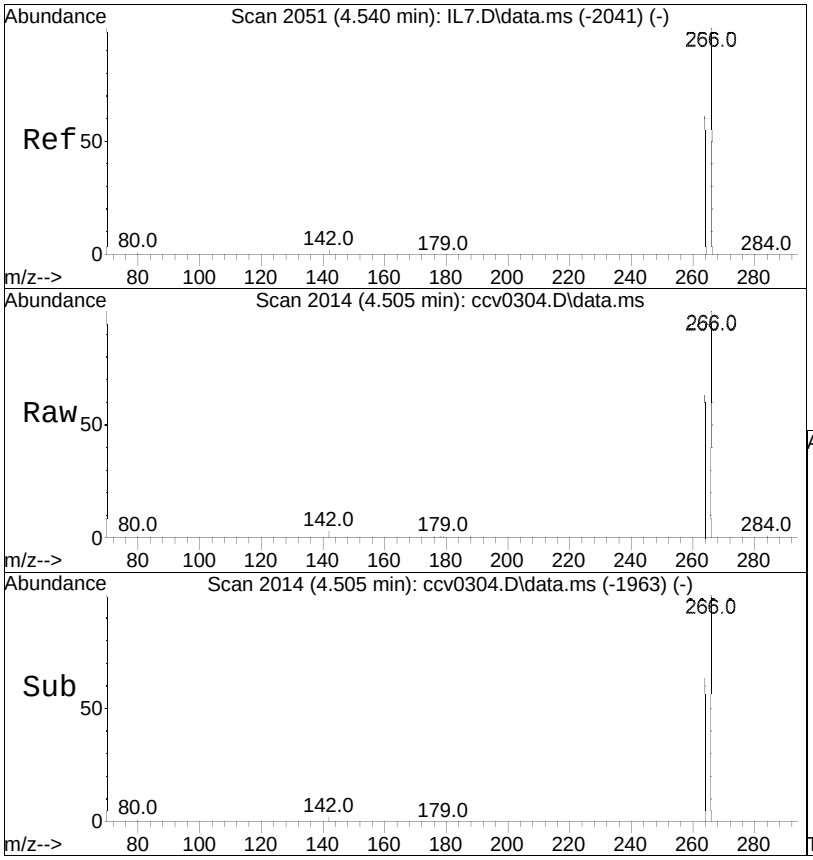


#24
Hexachlorobenzene
Concen: 975.20 ng/ml
RT: 4.393 min Scan# 1957
Delta R.T. 0.000 min
Lab File: ccv0304.D
Acq: 04 Mar 2024 07:40 am

Tgt Ion:284 Resp: 10153

Ion	Ratio	Lower	Upper
284	100		
142	31.1	26.9	40.3

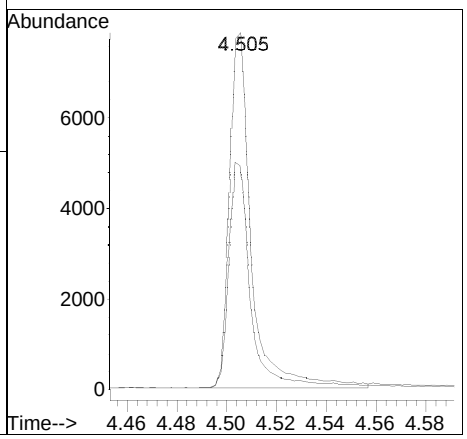


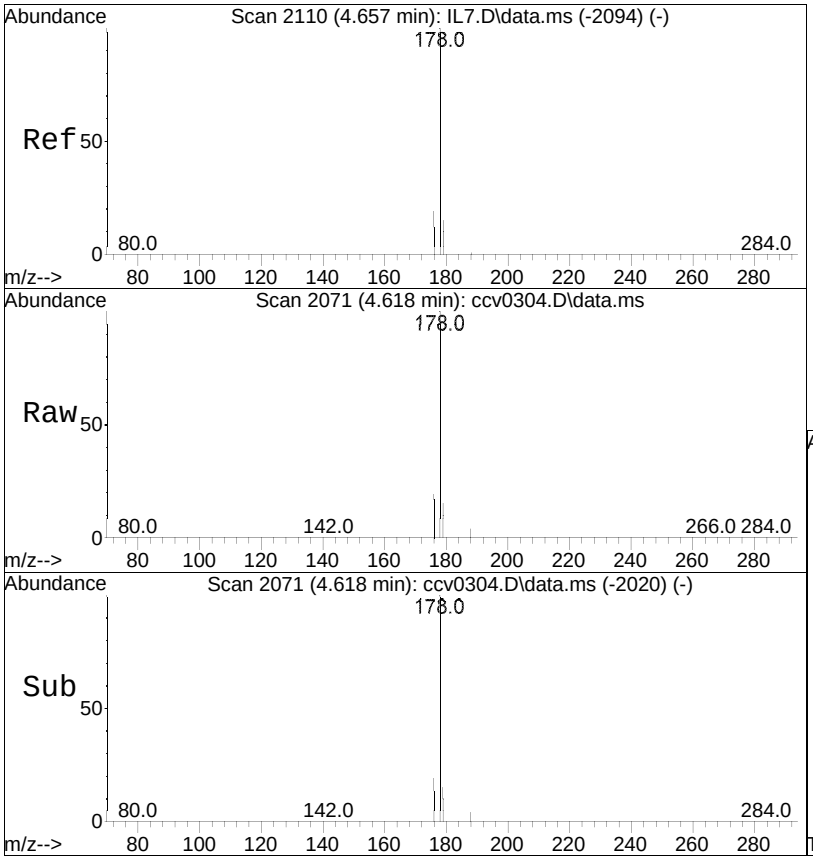


#25
Pentachlorophenol
Concen: 725.01 ng/ml
RT: 4.505 min Scan# 2014
Delta R.T. 0.000 min
Lab File: ccv0304.D
Acq: 04 Mar 2024 07:40 am

Tgt Ion:266 Resp: 4754

Ion	Ratio	Lower	Upper
266	100		
264	61.9	50.7	76.1

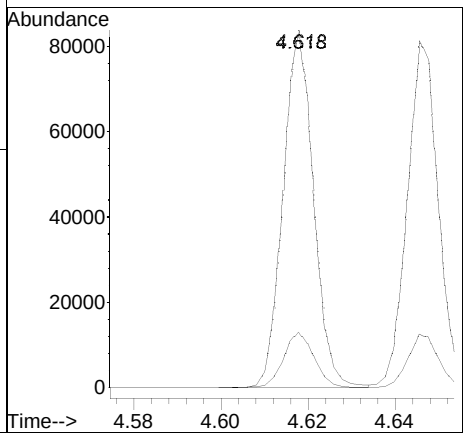


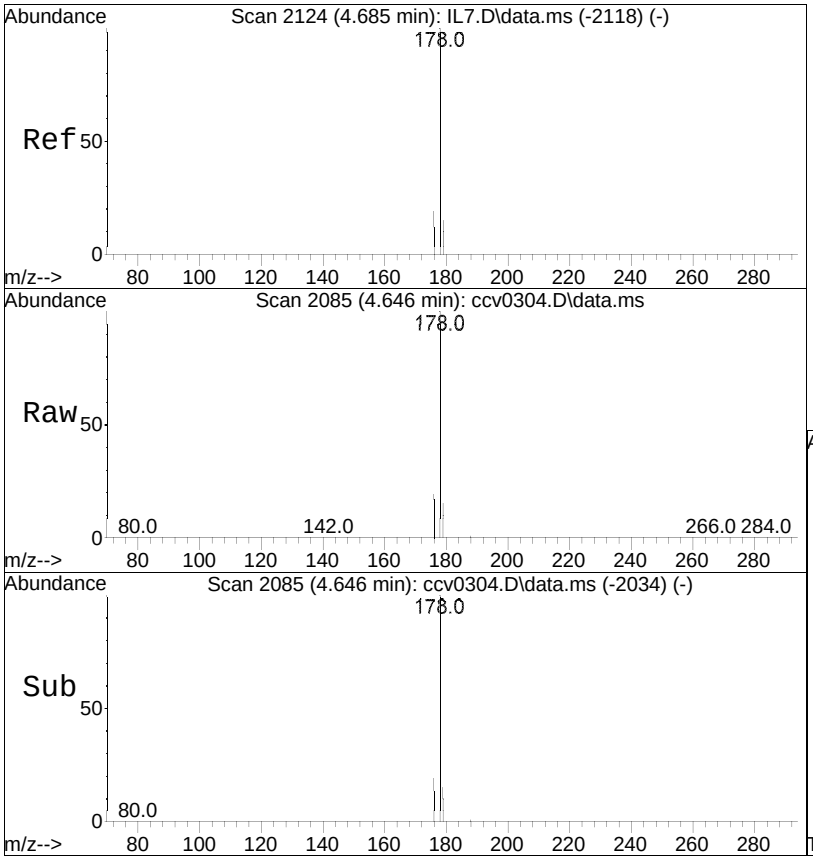


#26
Phenanthrene
Concen: 991.12 ng/ml
RT: 4.618 min Scan# 2071
Delta R.T. 0.000 min
Lab File: ccv0304.D
Acq: 04 Mar 2024 07:40 am

Tgt Ion:178 Resp: 40545

Ion	Ratio	Lower	Upper
178	100		
179	15.7	12.3	18.5

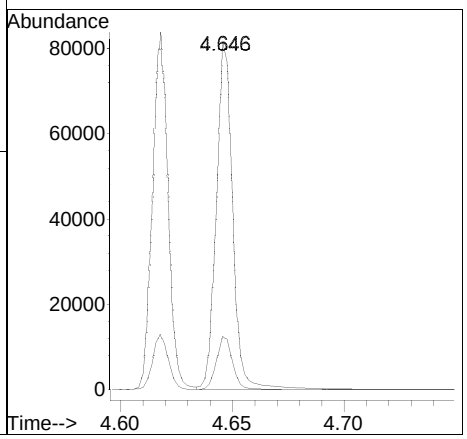


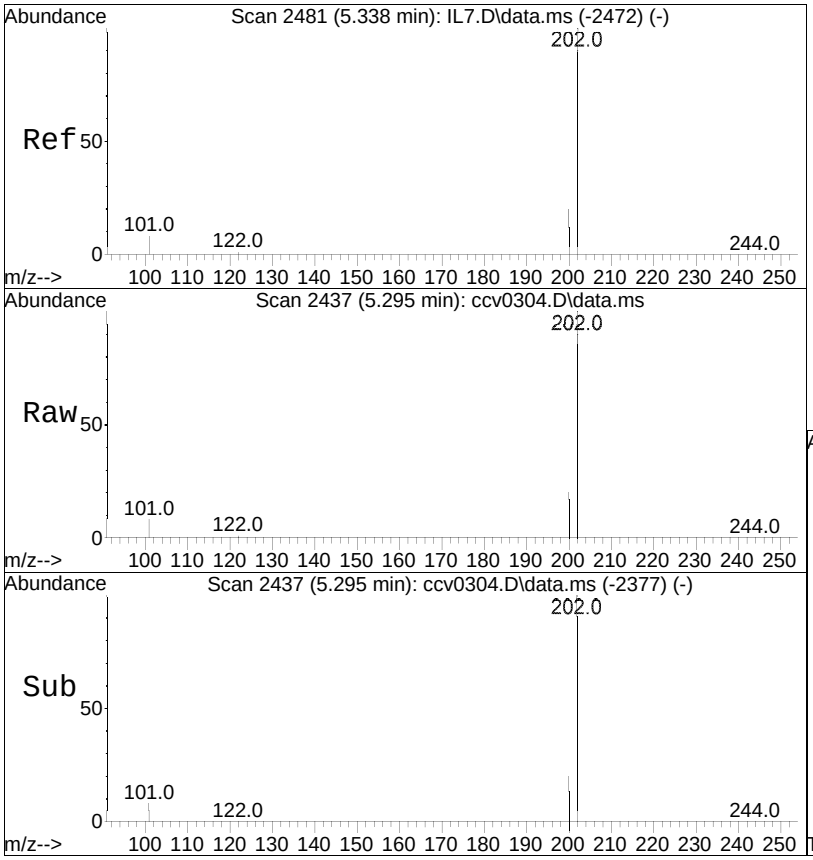


#27
Anthracene
Concen: 1017.60 ng/ml
RT: 4.646 min Scan# 2085
Delta R.T. 0.000 min
Lab File: ccv0304.D
Acq: 04 Mar 2024 07:40 am

Tgt Ion:178 Resp: 41281

Ion	Ratio	Lower	Upper
178	100		
179	15.4	12.2	18.4

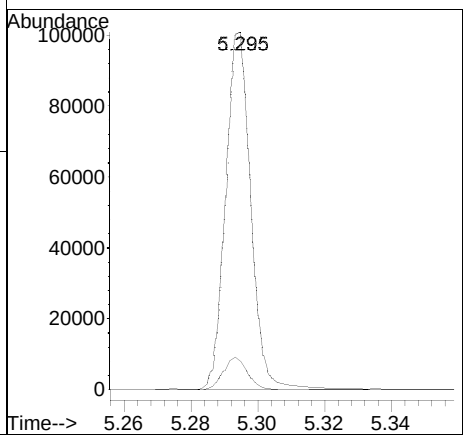


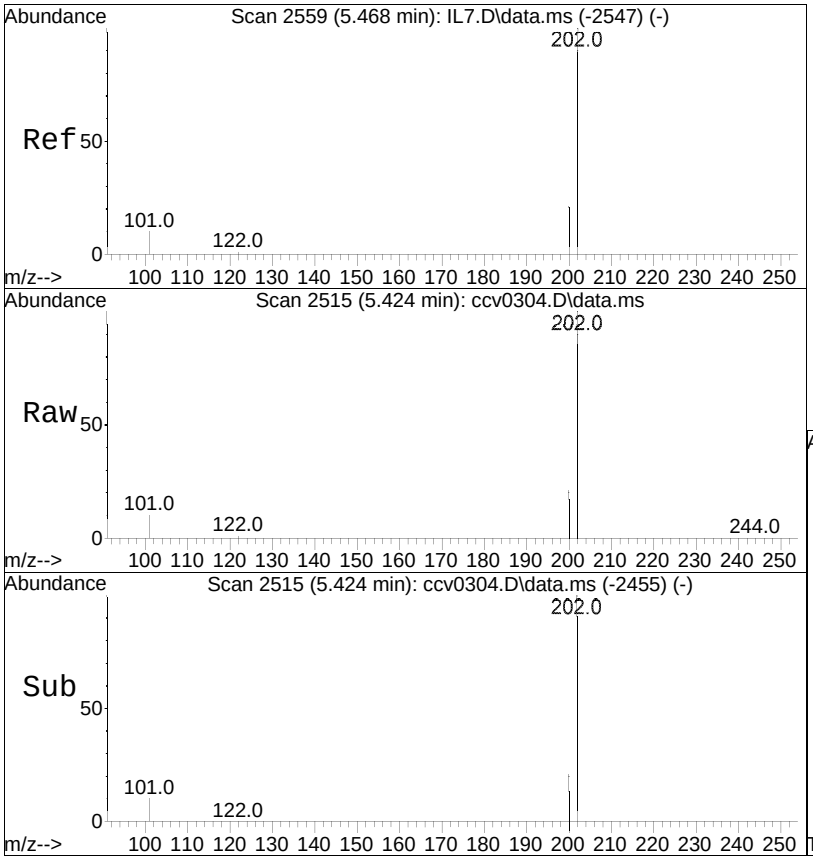


#28
Fluoranthene
Concen: 961.15 ng/ml
RT: 5.295 min Scan# 2437
Delta R.T. 0.000 min
Lab File: ccv0304.D
Acq: 04 Mar 2024 07:40 am

Tgt Ion:202 Resp: 51821

Ion	Ratio	Lower	Upper
202	100		
101	8.8	8.3	12.5

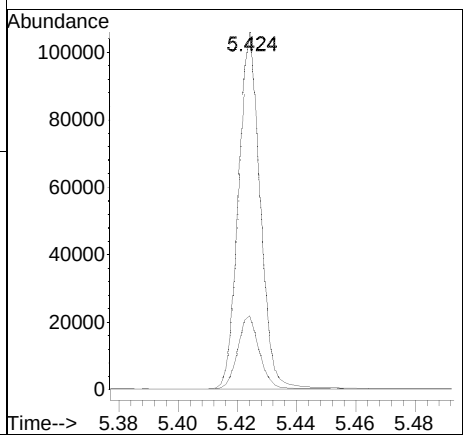


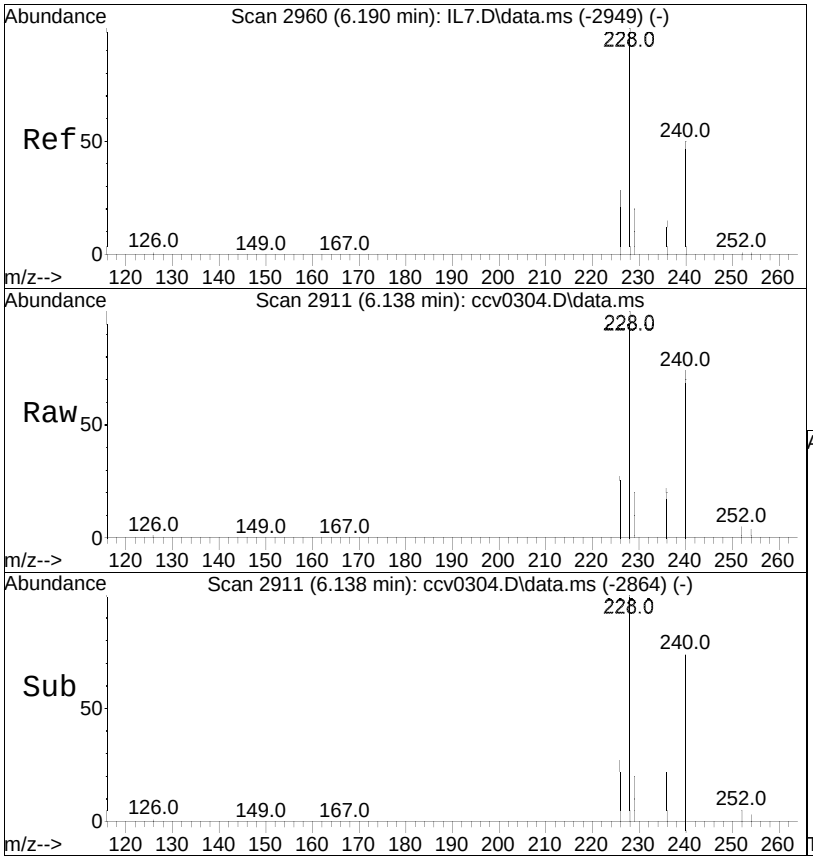


#29
Pyrene
Concen: 962.86 ng/ml
RT: 5.424 min Scan# 2515
Delta R.T. 0.000 min
Lab File: ccv0304.D
Acq: 04 Mar 2024 07:40 am

Tgt Ion:202 Resp: 53333

Ion	Ratio	Lower	Upper
202	100		
200	20.9	17.3	25.9

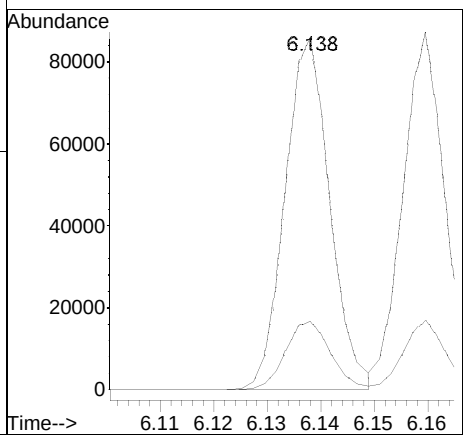


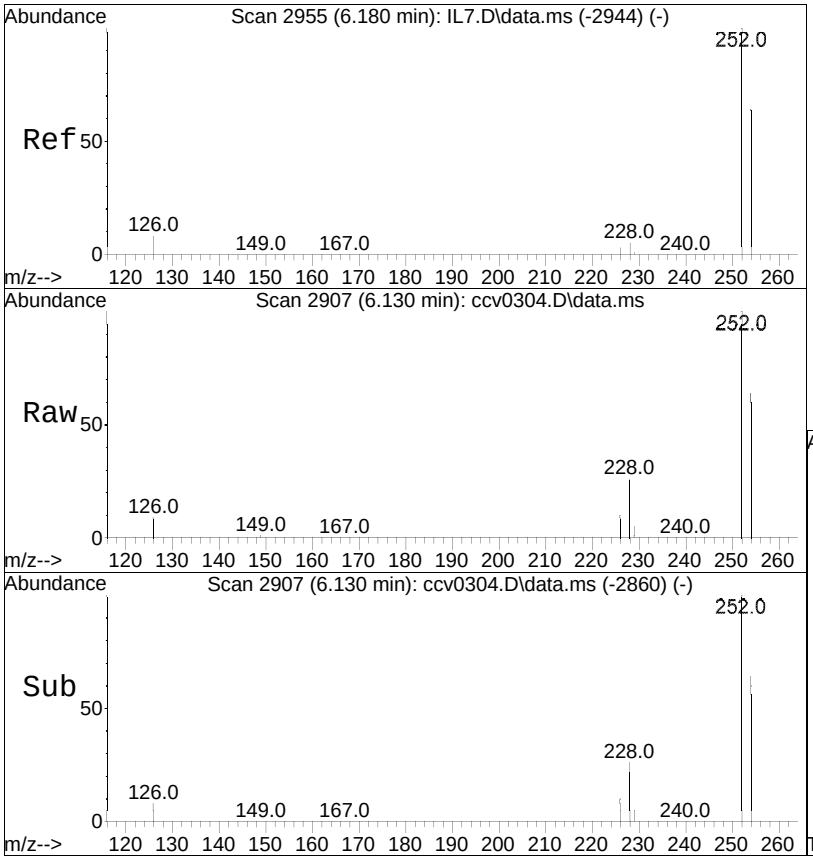


#32
Benzo[a]anthracene
Concen: 1090.53 ng/ml
RT: 6.138 min Scan# 2911
Delta R.T. 0.000 min
Lab File: ccv0304.D
Acq: 04 Mar 2024 07:40 am

Tgt Ion:228 Resp: 49730

Ion	Ratio	Lower	Upper
228	100		
229	19.6	15.6	23.4

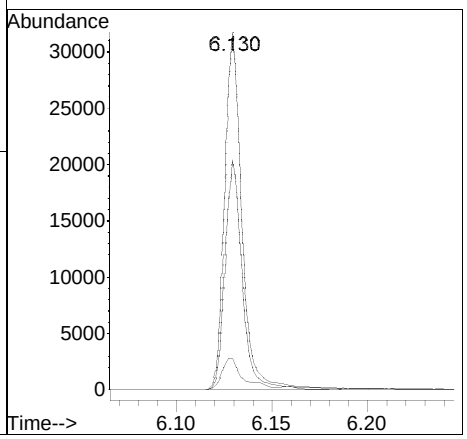


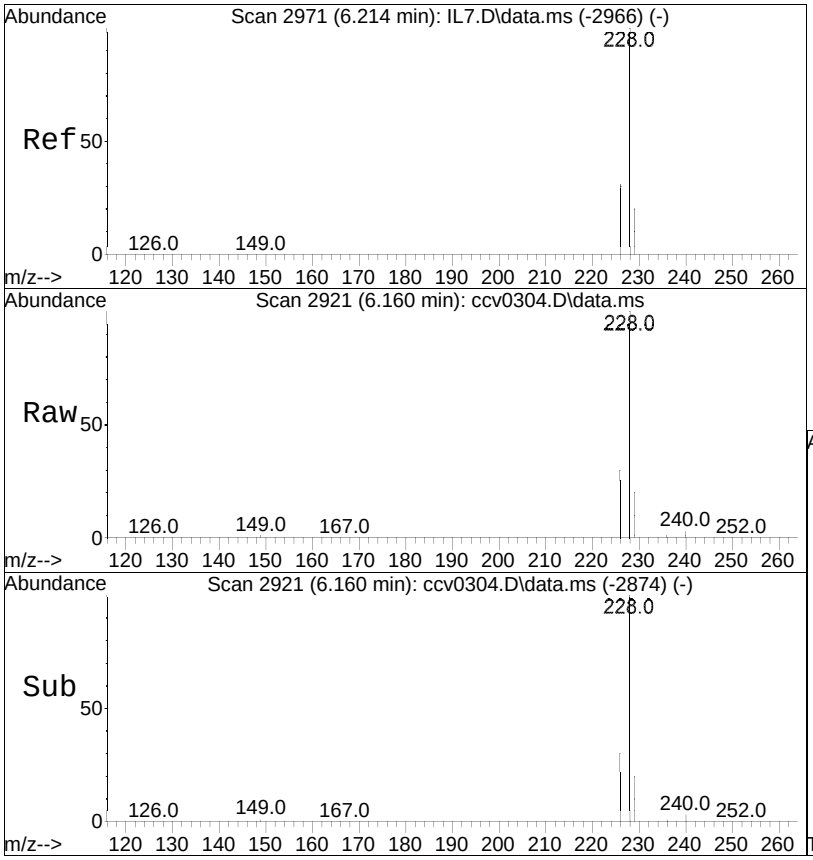


#33
3,3'-Dichlorobenzidine
Concen: 947.29 ng/ml
RT: 6.130 min Scan# 2907
Delta R.T. 0.000 min
Lab File: ccv0304.D
Acq: 04 Mar 2024 07:40 am

Tgt Ion:252 Resp: 19476

Ion	Ratio	Lower	Upper
252	100		
126	10.7	7.7	11.5
254	64.4	52.0	78.0

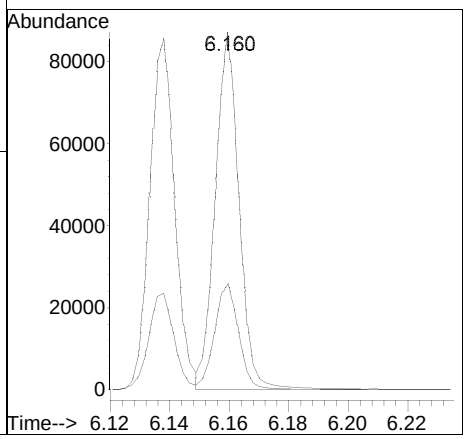


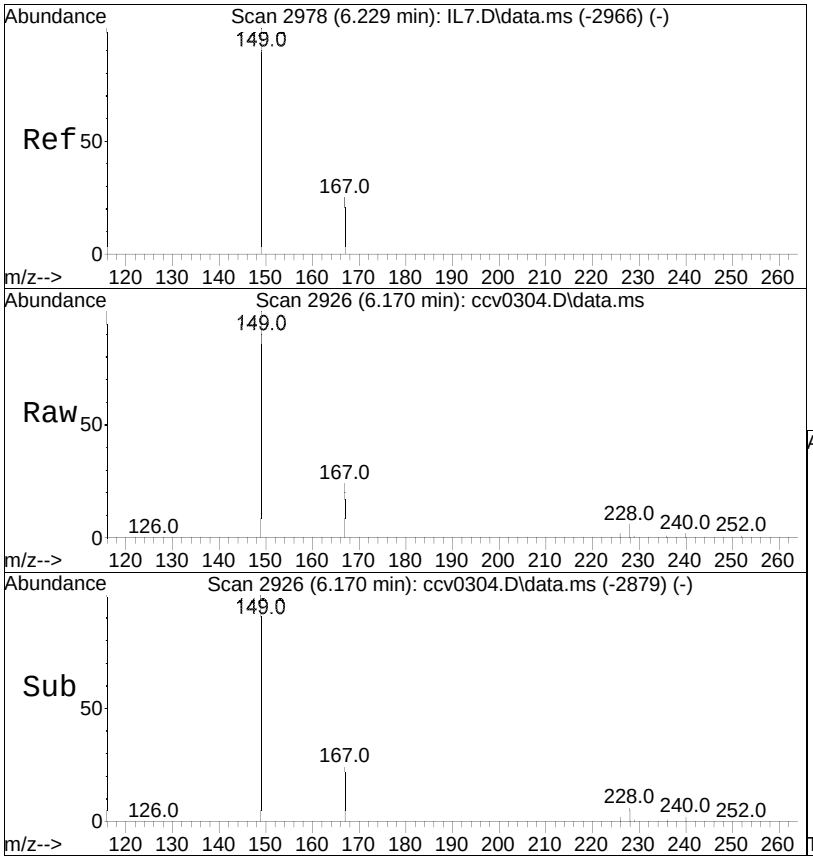


#34
Chrysene
Concen: 1069.39 ng/ml
RT: 6.160 min Scan# 2921
Delta R.T. 0.000 min
Lab File: ccv0304.D
Acq: 04 Mar 2024 07:40 am

Tgt Ion:228 Resp: 48030

Ion	Ratio	Lower	Upper
228	100		
226	30.3	24.5	36.7

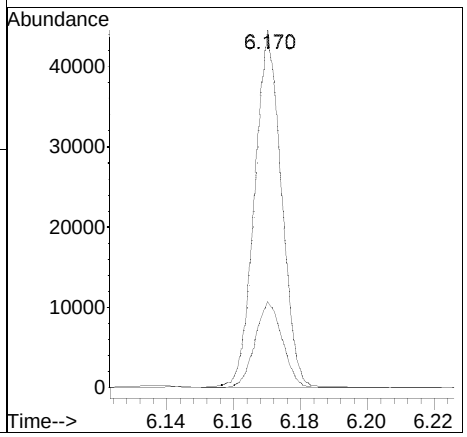


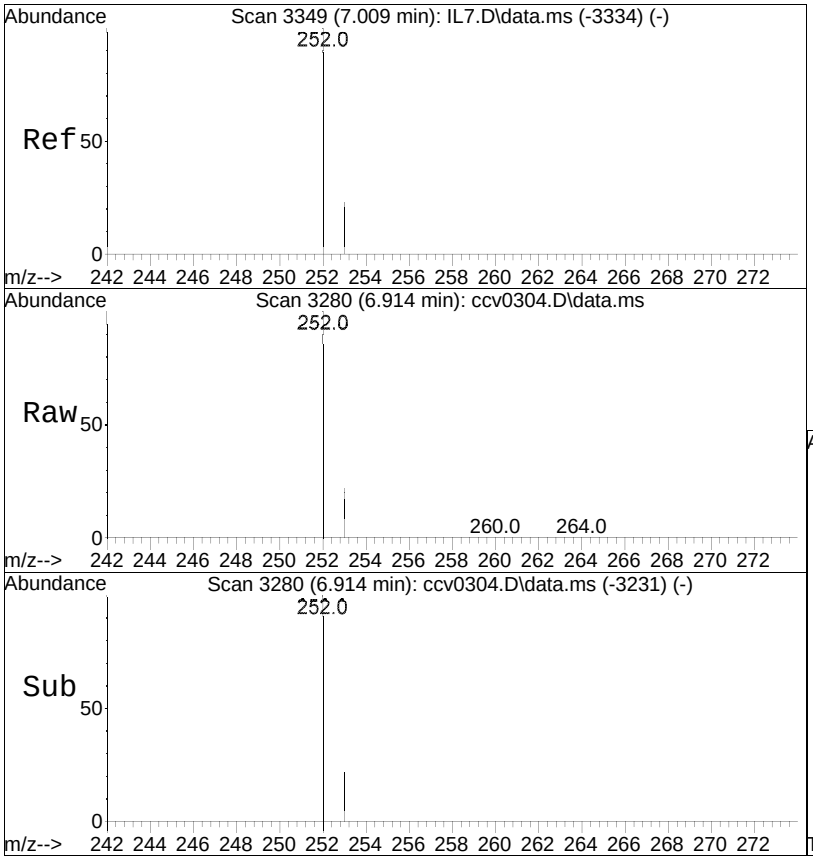


#35
Bis(2-ethylhexyl)phthalate
Concen: 819.99 ng/ml
RT: 6.170 min Scan# 2926
Delta R.T. 0.000 min
Lab File: ccv0304.D
Acq: 04 Mar 2024 07:40 am

Tgt Ion:149 Resp: 24263

Ion	Ratio	Lower	Upper
149	100		
167	24.6	18.5	27.7

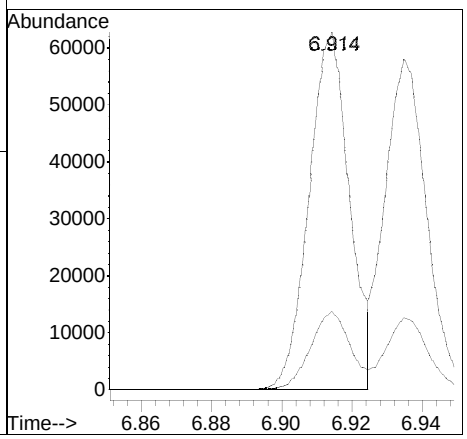


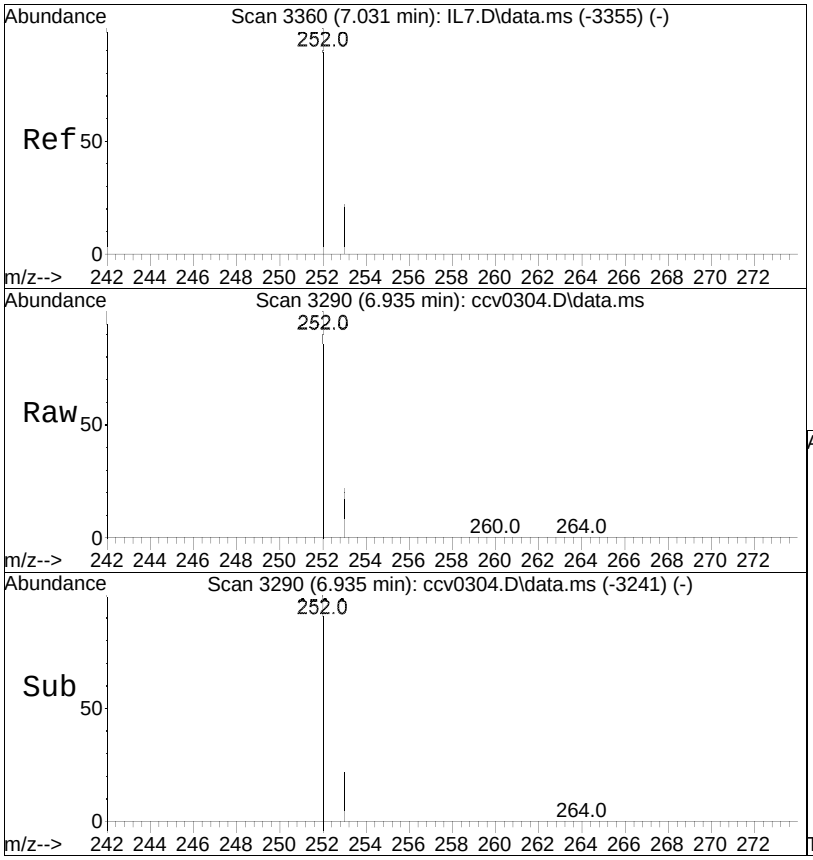


#37
Benzo[b]fluoranthene
Concen: 1041.12 ng/ml
RT: 6.914 min Scan# 3280
Delta R.T. 0.000 min
Lab File: ccv0304.D
Acq: 04 Mar 2024 07:40 am

Tgt Ion:252 Resp: 50252

Ion	Ratio	Lower	Upper
252	100		
253	21.6	17.3	25.9

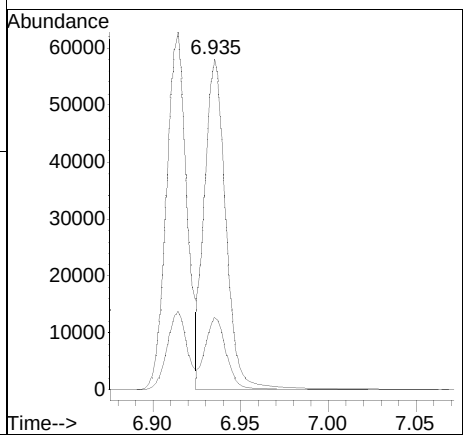


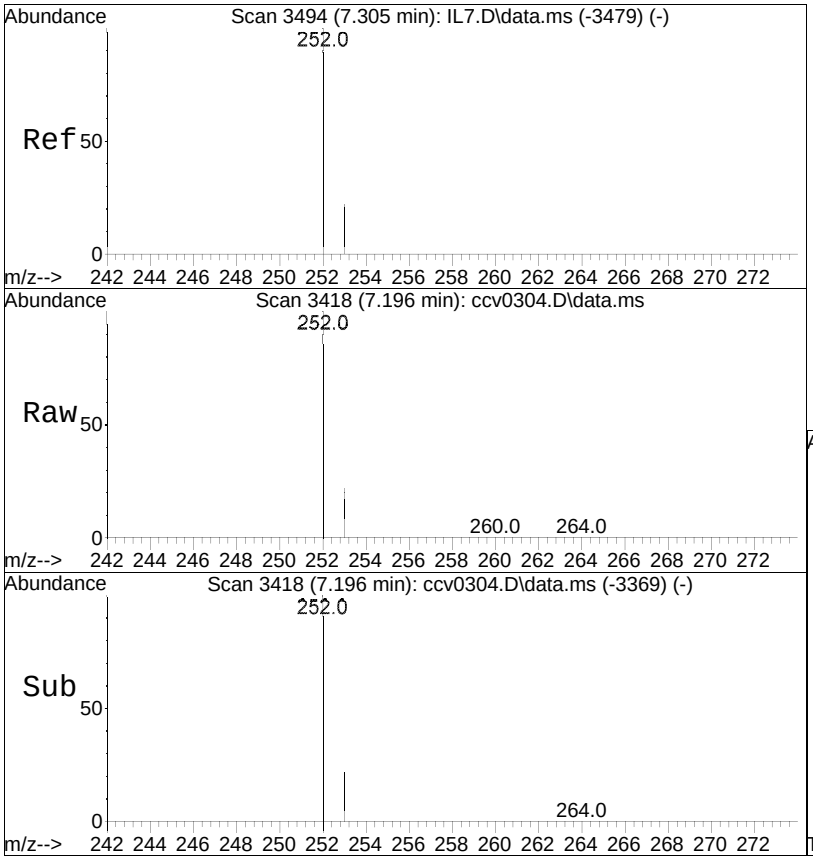


#38
Benzo[k]fluoranthene
Concen: 1058.87 ng/ml
RT: 6.935 min Scan# 3290
Delta R.T. 0.000 min
Lab File: ccv0304.D
Acq: 04 Mar 2024 07:40 am

Tgt Ion:252 Resp: 48531

Ion	Ratio	Lower	Upper
252	100		
253	21.5	17.4	26.2

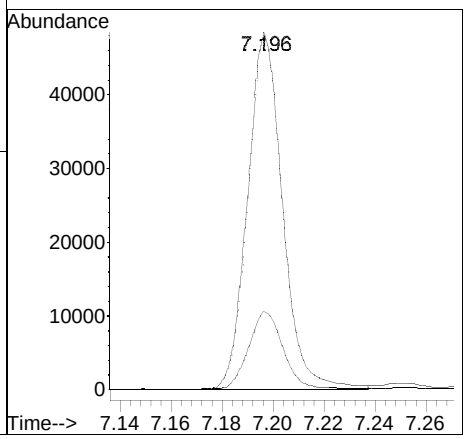


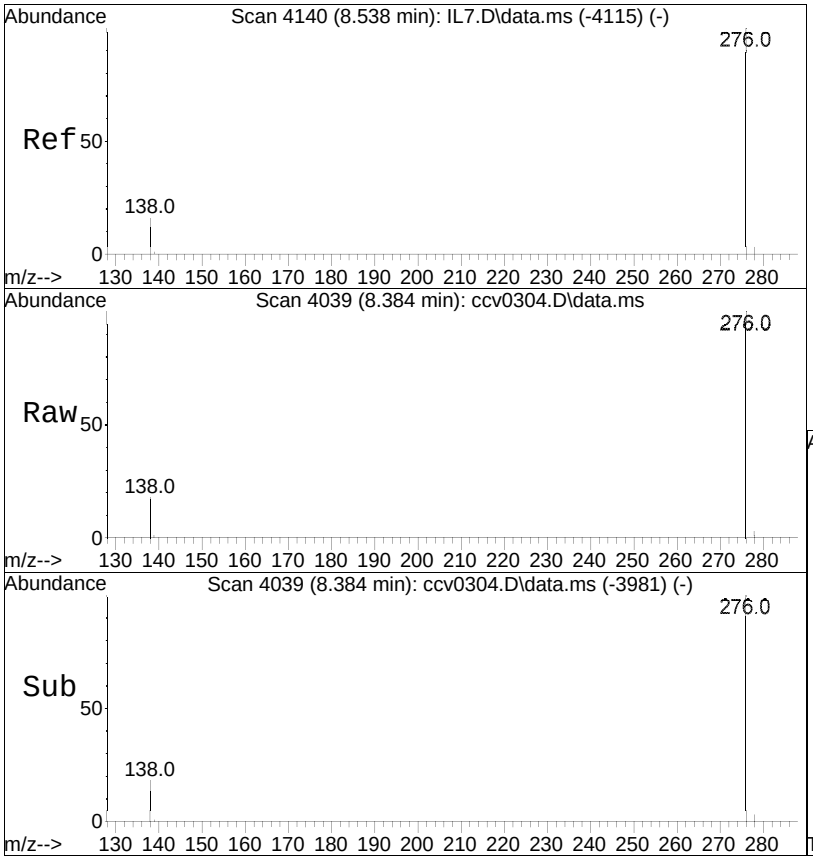


#39
Benzo[a]pyrene
Concen: 1069.16 ng/ml
RT: 7.196 min Scan# 3418
Delta R.T. 0.000 min
Lab File: ccv0304.D
Acq: 04 Mar 2024 07:40 am

Tgt Ion:252 Resp: 45424

Ion	Ratio	Lower	Upper
252	100		
253	21.9	17.4	26.0

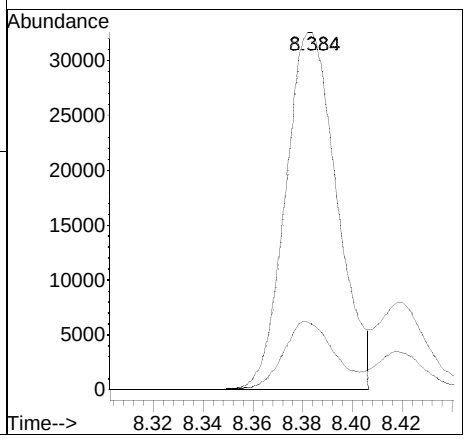


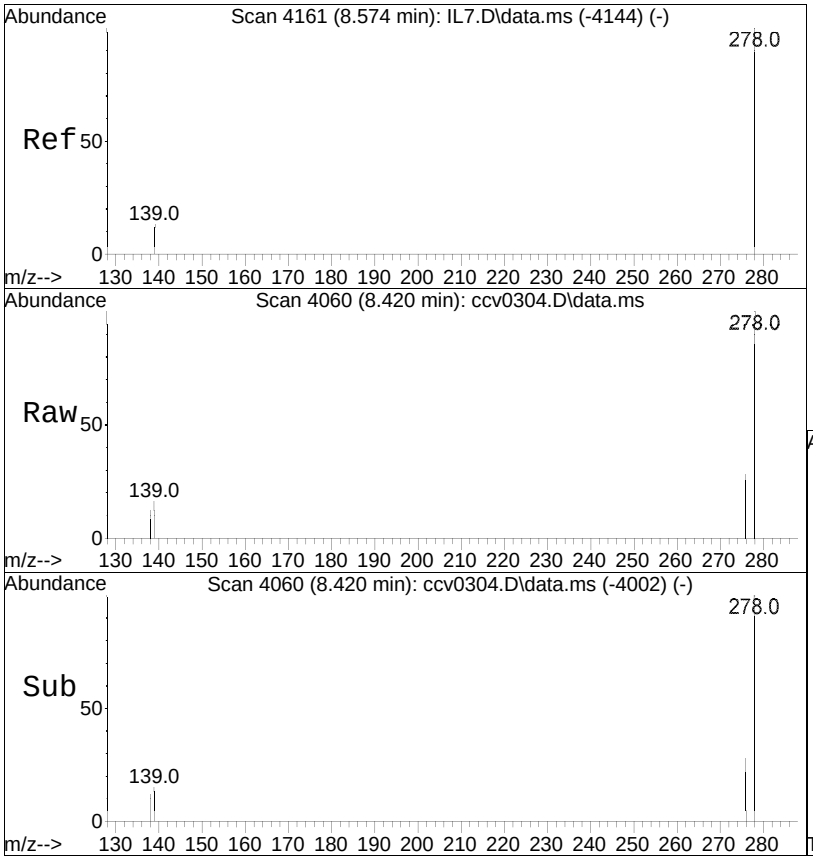


#40
Indeno[1,2,3-cd]pyrene
Concen: 1004.10 ng/ml
RT: 8.384 min Scan# 4039
Delta R.T. 0.000 min
Lab File: ccv0304.D
Acq: 04 Mar 2024 07:40 am

Tgt Ion:276 Resp: 46364

Ion	Ratio	Lower	Upper
276	100		
138	18.8	14.8	22.2

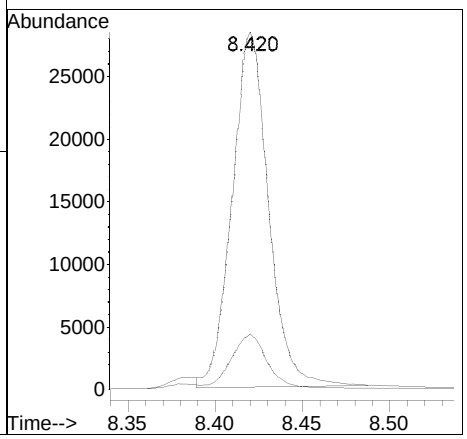


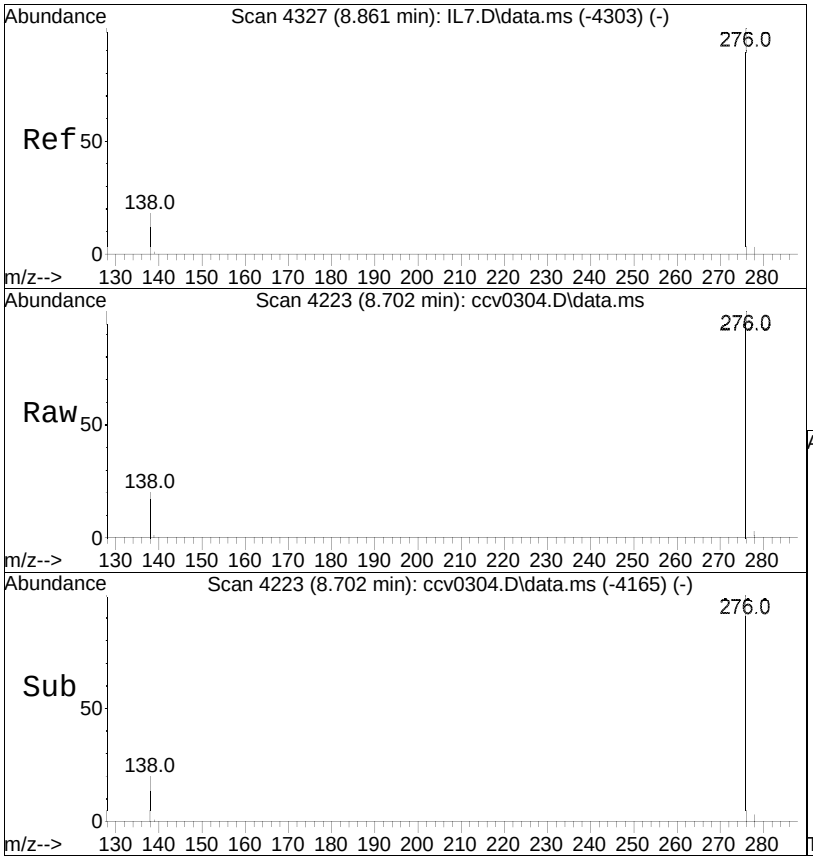


#41
Dibenzo[a,h]anthracene
Concen: 952.57 ng/ml
RT: 8.420 min Scan# 4060
Delta R.T. 0.000 min
Lab File: ccv0304.D
Acq: 04 Mar 2024 07:40 am

Tgt Ion:278 Resp: 40923

Ion	Ratio	Lower	Upper
278	100		
139	15.0	12.2	18.4

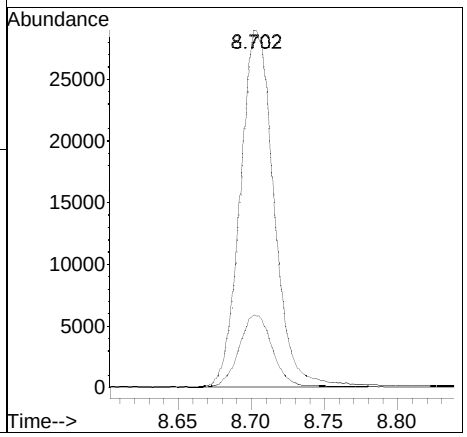




#42
Benzo[g,h,i]perylene
Concen: 976.52 ng/ml
RT: 8.702 min Scan# 4223
Delta R.T. 0.000 min
Lab File: ccv0304.D
Acq: 04 Mar 2024 07:40 am

Tgt Ion:276 Resp: 45866

Ion	Ratio	Lower	Upper
276	100		
138	20.2	16.8	25.2



Manual Integration Report

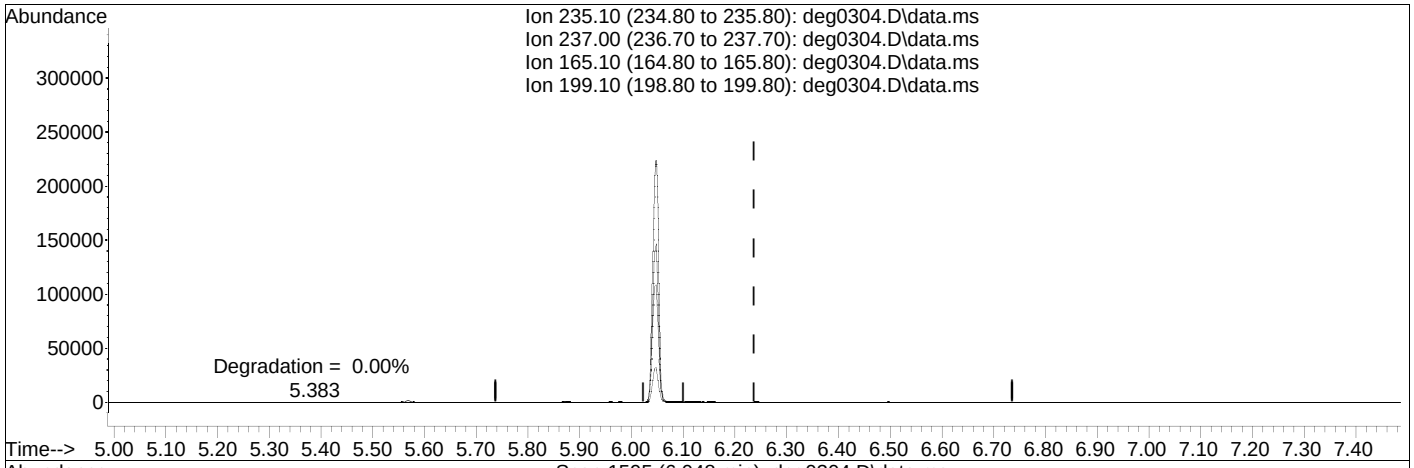
Data Path	: I:\8270SIM\sv119\240304LVI	Method	: SIM-LVI_231207n_sv119.M
Data File	: ccv0304.D	Operator	: sv119:ah
Date Inj'd	: 3/4/2024 7:40 am	Instrument	: SV119
Sample	: WG1891805-3,32,, ICV 10475	Quant Date	: 3/4/2024 7:59 am

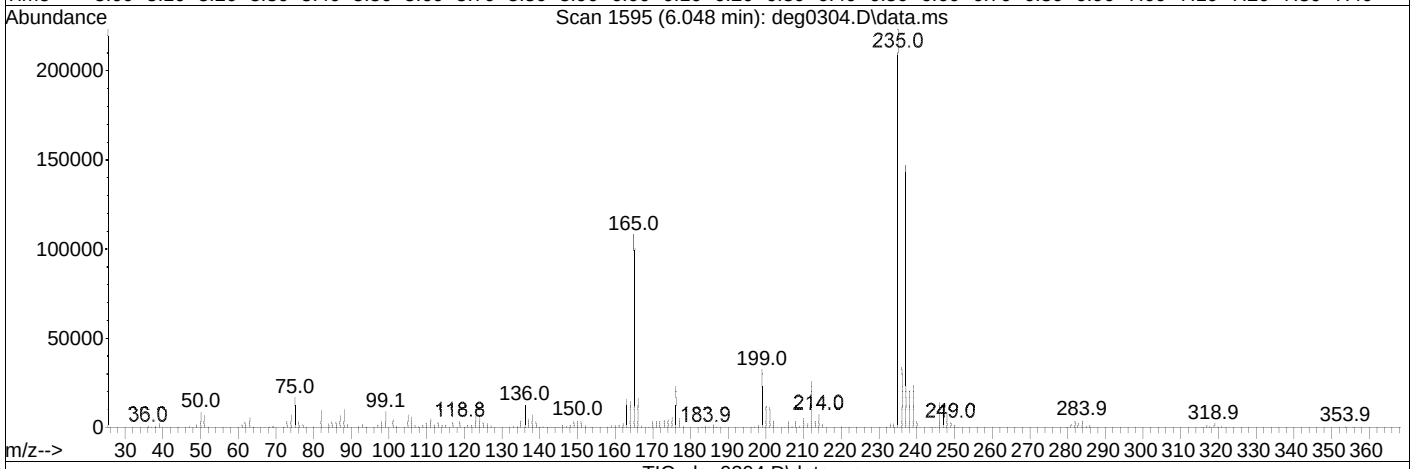
There are no manual integrations or false positives in this file.

Quantitation Report (Qedit)

Data Path : I:\8270SIM\sv119\240304LVI\
Data File : deg0304.D
Acq On : 04 Mar 2024 07:19 am
Operator : sv119:ah
Sample : WG1891805-2,32,,dftppsv119
Misc : WG1891805,,ical20642
ALS Vial : 48 Sample Multiplier: 1

Quant Time: Mar 04 07:37:48 2024
Quant Method : I:\8270SIM\sv119\240304LVI\dftppsv119.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Feb 27 09:29:03 2024
Response via : Continuing Cal File: C:\ENVDEMO\BNADATA\DLWB002.D





TIC: deg0304.D\data.ms

(6) ddt (T)

6.048min (-0.189) 27.06

response 164931

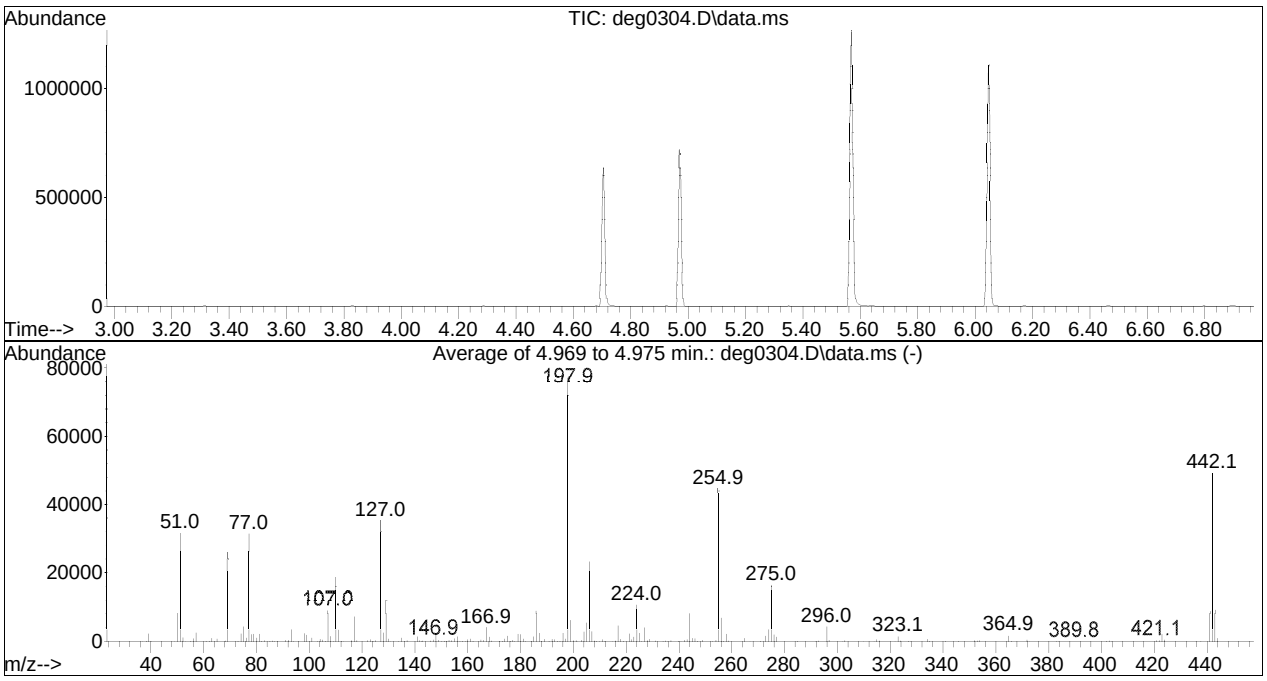
Ion	Exp%	Act%
235.10	100.00	100.00
237.00	65.60	64.67
165.10	53.30	49.64
199.10	17.10	14.82

DFTPP

Data Path : I:\8270SIM\sv119\240304LVI\
Data File : deg0304.D
Acq On : 04 Mar 2024 07:19 am
Operator : sv119:ah
Sample : WG1891805-1,32,,dftppsv119
Misc : WG1891805,,ical20642
ALS Vial : 48 Sample Multiplier: 1

Integration File: rteint.p

Method : I:\8270SIM\sv119\240304LVI\SIM-LVI_231207n_sv119.M
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Mon Mar 04 07:58:51 2024



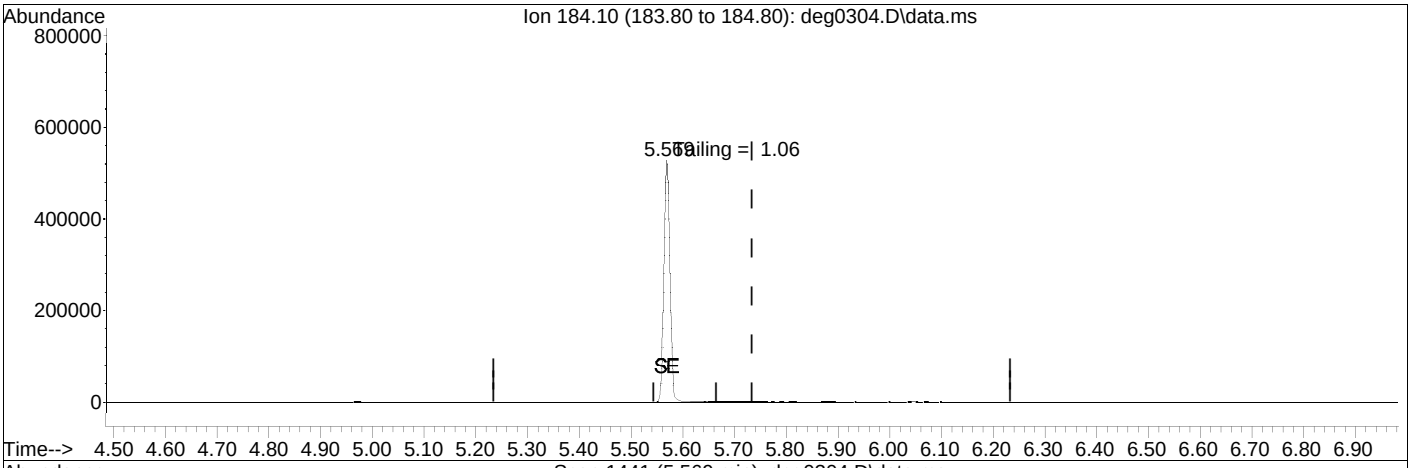
Spectrum Information: Average of 4.969 to 4.975 min.

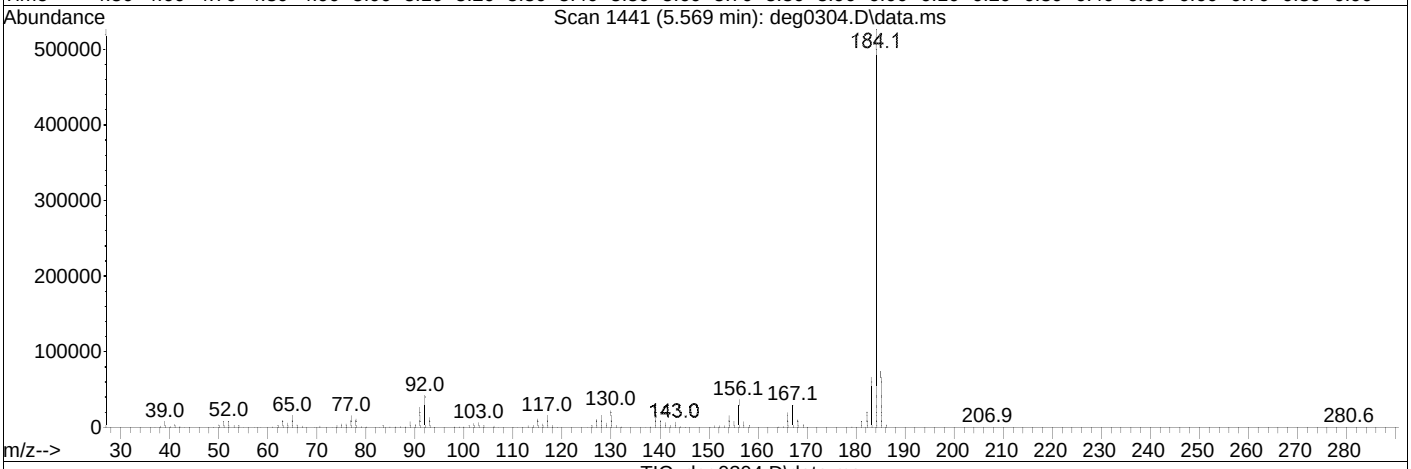
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	41.0	31604	PASS
68	69	0.00	2	1.6	419	PASS
69	69	100	100	100.0	25923	PASS
70	69	0.00	2	0.0	0	PASS
127	198	10	80	45.7	35272	PASS
197	198	0.00	2	1.2	943	PASS
198	198	100	100	100.0	77136	PASS
199	198	5	9	7.9	6056	PASS
275	198	10	60	21.6	16634	PASS
365	198	1	100	2.2	1725	PASS
441	442	0.01	24	18.0	8860	PASS
442	198	50	100	63.7	49165	PASS
443	442	15	24	18.6	9154	PASS

Quantitation Report (Qedit)

Data Path : I:\8270SIM\sv119\240304LVI\
Data File : deg0304.D
Acq On : 04 Mar 2024 07:19 am
Operator : sv119:ah
Sample : WG1891805-4,32,,dftppsv119
Misc : WG1891805,,ical20642
ALS Vial : 48 Sample Multiplier: 1

Quant Time: Mar 04 07:37:48 2024
Quant Method : I:\8270SIM\sv119\240304LVI\dftppsv119.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Feb 27 09:29:03 2024
Response via : Continuing Cal File: C:\ENVDEMO\BNADATA\DLWB002.D





TIC: deg0304.D\data.ms

(3) benzidine (T)

5.569min (-0.165) 39.01

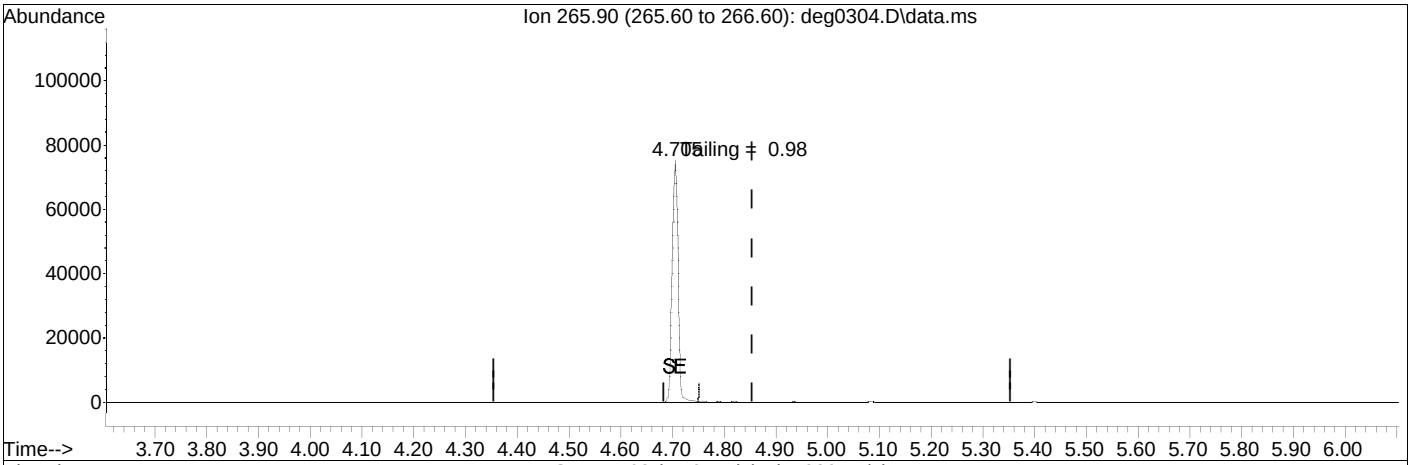
response 397152

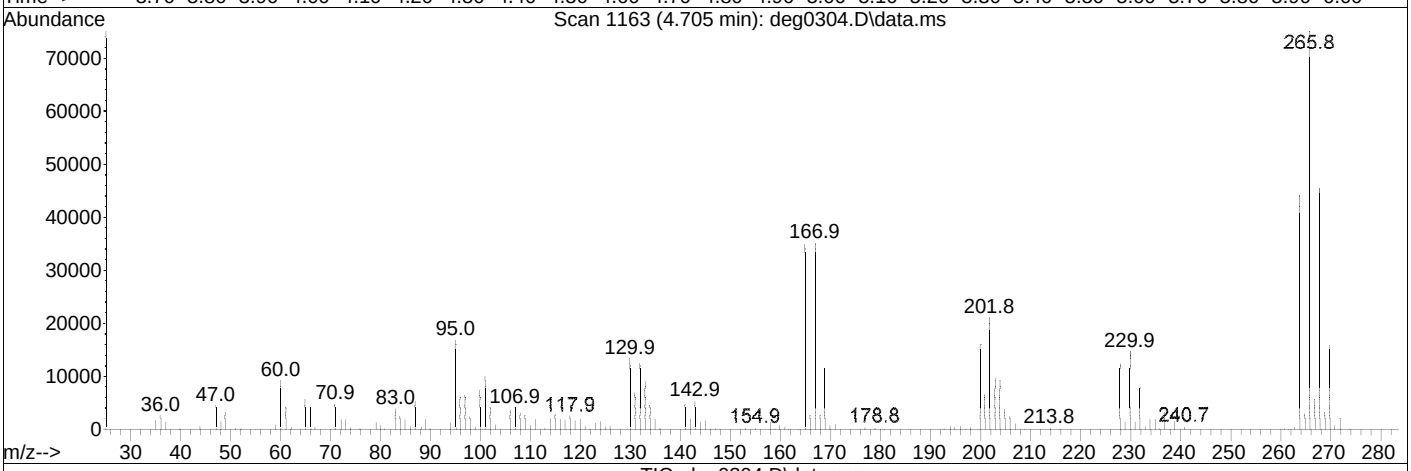
Ion	Exp%	Act%
184.10	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\8270SIM\sv119\240304LVI\
Data File : deg0304.D
Acq On : 04 Mar 2024 07:19 am
Operator : sv119:ah
Sample : WG1891805-5,32,,dftppsv119
Misc : WG1891805,,ical20642
ALS Vial : 48 Sample Multiplier: 1

Quant Time: Mar 04 07:37:48 2024
Quant Method : I:\8270SIM\sv119\240304LVI\dftppsv119.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Feb 27 09:29:03 2024
Response via : Continuing Cal File: C:\ENVDEMO\BNADATA\DLWB002.D





TIC: deg0304.D\data.ms

(1) pentachlorophenol (T)

4.705min (-0.149) 26.05

response 54707

Ion	Exp%	Act%
265.90	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Alpha Geoscience	**Lab Number**	: L2410579		
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116		
Instrument ID	: SV128	**Calibration Date**	: 03/03/24 07:58		
Lab File ID	: CCV0303	**Init. Calib. Date(s)**	: 12/11/23	12/13/23	
Sample No	: WG1891581-3	**Init. Calib. Times**	: 13:27	07:14	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,4-Dichlorobenzene-d4	1	1	.05	0	20	89	0
2-Fluorophenol	1.007	1.022	.05	-1.5	20	85	0
Phenol-d6	1.177	1.276	.05	-8.4	20	91	0
Bis(2-chloroethyl)ether	1.005	1.046	.05	-4.1	20	91	0
n-nitrosodi-n-propylamine	0.702	0.719	.05	-2.4	20	86	0
Hexachloroethane	0.478	0.472	.05	1.3	20	85	0
Nitrobenzene-d5	0.951	1.137	.05	-19.6	20	99	0
Naphthalene-d8	1	1	.05	0	20	89	0
Naphthalene	1.026	1.033	.05	-0.7	20	87	0
Hexachlorobutadiene	0.235	0.236	.05	-0.4	20	89	0
2-Methylnaphthalene	0.655	0.692	.05	-5.6	20	89	0
1-Methylnaphthalene	0.617	0.658	.05	-6.6	20	90	0
2-Fluorobiphenyl	0.848	0.932	.05	-9.9	20	91	0
2-Chloronaphthalene	0.713	0.761	.05	-6.7	20	89	0
2,6-Dinitrotoluene	1000	1328.905	.05	-32.9*	20	124	0
Acenaphthylene	1.057	1.163	.05	-10	20	90	0
Acenaphthene-d10	1	1	.05	0	20	94	0
Acenaphthene	1.352	1.345	.05	0.5	20	91	0
2,4-Dinitrotoluene	1000	1285.041	.05	-28.5*	20	131	0
Fluorene	1.365	1.452	.05	-6.4	20	94	0
2,4,6-Tribromophenol	0.2	0.243	.05	-21.5*	20	108	0
Phenanthrene-d10	1	1	.05	0	20	97	0
4,6-Dinitro-o-cresol	1000	1105.449	.05	-10.5	20	125	0
Hexachlorobenzene	0.266	0.248	.05	6.8	20	91	0
Pentachlorophenol	1000	962.628	.05	3.7	20	90	0
Phenanthrene	1.082	1.025	.05	5.3	20	91	0
Anthracene	1.045	1.077	.05	-3.1	20	98	0
Fluoranthene	1.188	1.256	.05	-5.7	20	97	0
Pyrene	1.23	1.34	.05	-8.9	20	97	0
4-Terphenyl-d14	0.833	0.923	.05	-10.8	20	99	0
Chrysene-d12	1	1	.05	0	20	98	0
Benzo[a]anthracene	1000	951.689	.05	4.8	20	95	0
3,3'-Dichlorobenzidine	1000	902.375	.05	9.8	20	97	0
Chrysene	1.379	1.369	.05	0.7	20	94	0
Bis(2-ethylhexyl)phthalate	1000	961.789	.05	3.8	20	110	0
Perylene-d12	1	1	.05	0	20	90	0
Benzo[b]fluoranthene	1.239	1.236	.05	0.2	20	89	0
Benzo[k]fluoranthene	1.153	1.204	.05	-4.4	20	92	0
Benzo[a]pyrene	1.091	1.121	.05	-2.7	20	89	0
Indeno[1,2,3-cd]pyrene	1.091	1.058	.05	3	20	84	0
Dibenzo[a,h]anthracene	1.059	1.087	.05	-2.6	20	84	0
Benzo[g,h,i]perylene	1.134	1.047	.05	7.7	20	77	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Alpha Geoscience	**Lab Number**	: L2410579		
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116		
Instrument ID	: SV119	**Calibration Date**	: 03/04/24 07:40		
Lab File ID	: CCV0304	**Init. Calib. Date(s)**	: 12/07/23	12/07/23	
Sample No	: WG1891805-3	**Init. Calib. Times**	: 13:10	15:42	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,4-Dichlorobenzene-d4	1	1	.05	0	20	88	0
2-Fluorophenol	1.094	1.209	.05	-10.5	20	90	0
Phenol-d6	1.311	1.384	.05	-5.6	20	91	0
Bis(2-chloroethyl)ether	1.115	1.153	.05	-3.4	20	90	0
n-nitrosodi-n-propylamine	0.667	0.678	.05	-1.6	20	86	0
Hexachloroethane	0.495	0.514	.05	-3.8	20	90	0
Nitrobenzene-d5	0.995	1.071	.05	-7.6	20	90	0
Naphthalene-d8	1	1	.05	0	20	86	0
Naphthalene	0.955	0.995	.05	-4.2	20	85	0
Hexachlorobutadiene	0.206	0.232	.05	-12.6	20	92	0
2-Methylnaphthalene	0.706	0.707	.05	-0.1	20	81	0
1-Methylnaphthalene	0.651	0.639	.05	1.8	20	81	0
2-Fluorobiphenyl	0.893	0.869	.05	2.7	20	80	0
2-Chloronaphthalene	0.752	0.739	.05	1.7	20	82	0
2,6-Dinitrotoluene	0.17	0.169	.05	0.6	20	83	0
Acenaphthylene	1.118	1.113	.05	0.4	20	80	0
Acenaphthene-d10	1	1	.05	0	20	84	0
Acenaphthene	1.237	1.258	.05	-1.7	20	80	0
2,4-Dinitrotoluene	0.369	0.394	.05	-6.8	20	82	0
Fluorene	1.478	1.492	.05	-0.9	20	79	0
2,4,6-Tribromophenol	0.221	0.227	.05	-2.7	20	79	0
Phenanthrene-d10	1	1	.05	0	20	81	0
4,6-Dinitro-o-cresol	1000	827.925	.05	17.2	20	71	0
Hexachlorobenzene	0.259	0.252	.05	2.7	20	75	0
Pentachlorophenol	1000	725.011	.05	27.5*	20	61	0
Phenanthrene	1.016	1.007	.05	0.9	20	76	0
Anthracene	1.008	1.025	.05	-1.7	20	78	0
Fluoranthene	1.339	1.287	.05	3.9	20	73	0
Pyrene	1.376	1.325	.05	3.7	20	74	0
4-Terphenyl-d14	0.981	0.761	.05	22.4*	20	61	0
Chrysene-d12	1	1	.05	0	20	69	0
Benzo[a]anthracene	1000	1090.528	.05	-9.1	20	68	0
3,3'-Dichlorobenzidine	0.604	0.572	.05	5.3	20	63	0
Chrysene	1.32	1.412	.05	-7	20	71	0
Bis(2-ethylhexyl)phthalate	1000	819.991	.05	18	20	67	0
Perylene-d12	1	1	.05	0	20	64	0
Benzo[b]fluoranthene	1.397	1.455	.05	-4.2	20	62	0
Benzo[k]fluoranthene	1.327	1.405	.05	-5.9	20	66	0
Benzo[a]pyrene	1.23	1.315	.05	-6.9	20	65	0
Indeno[1,2,3-cd]pyrene	1.337	1.342	.05	-0.4	20	61	0
Dibenzo[a,h]anthracene	1.244	1.185	.05	4.7	20	58	0
Benzo[g,h,i]perylene	1.36	1.328	.05	2.4	20	60	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Alpha Geoscience	**Lab Number**	: L2410579		
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116		
Instrument ID	: SV119	**Calibration Date**	: 03/05/24 06:33		
Lab File ID	: CCV0305	**Init. Calib. Date(s)**	: 12/07/23	12/07/23	
Sample No	: WG1892203-3	**Init. Calib. Times**	: 13:10	15:42	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,4-Dichlorobenzene-d4	1	1	.05	0	20	82	0
2-Fluorophenol	1.094	1.197	.05	-9.4	20	83	0
Phenol-d6	1.311	1.379	.05	-5.2	20	84	0
Bis(2-chloroethyl)ether	1.115	1.152	.05	-3.3	20	83	0
n-nitrosodi-n-propylamine	0.667	0.703	.05	-5.4	20	83	0
Hexachloroethane	0.495	0.52	.05	-5.1	20	84	0
Nitrobenzene-d5	0.995	1.089	.05	-9.4	20	84	0
Naphthalene-d8	1	1	.05	0	20	80	0
Naphthalene	0.955	0.991	.05	-3.8	20	80	0
Hexachlorobutadiene	0.206	0.237	.05	-15	20	88	0
2-Methylnaphthalene	0.706	0.72	.05	-2	20	77	0
1-Methylnaphthalene	0.651	0.644	.05	1.1	20	77	0
2-Fluorobiphenyl	0.893	0.901	.05	-0.9	20	77	0
2-Chloronaphthalene	0.752	0.756	.05	-0.5	20	79	0
2,6-Dinitrotoluene	0.17	0.186	.05	-9.4	20	86	0
Acenaphthylene	1.118	1.158	.05	-3.6	20	78	0
Acenaphthene-d10	1	1	.05	0	20	81	0
Acenaphthene	1.237	1.261	.05	-1.9	20	78	0
2,4-Dinitrotoluene	0.369	0.435	.05	-17.9	20	88	0
Fluorene	1.478	1.522	.05	-3	20	78	0
2,4,6-Tribromophenol	0.221	0.246	.05	-11.3	20	84	0
Phenanthrene-d10	1	1	.05	0	20	83	0
4,6-Dinitro-o-cresol	1000	986.317	.05	1.4	20	88	0
Hexachlorobenzene	0.259	0.255	.05	1.5	20	78	0
Pentachlorophenol	1000	777.078	.05	22.3*	20	67	0
Phenanthrene	1.016	1.022	.05	-0.6	20	79	0
Anthracene	1.008	1.034	.05	-2.6	20	80	0
Fluoranthene	1.339	1.392	.05	-4	20	80	0
Pyrene	1.376	1.438	.05	-4.5	20	82	0
4-Terphenyl-d14	0.981	0.853	.05	13	20	69	0
Chrysene-d12	1	1	.05	0	20	80	0
Benzo[a]anthracene	1000	1124.001	.05	-12.4	20	82	0
3,3'-Dichlorobenzidine	0.604	0.618	.05	-2.3	20	79	0
Chrysene	1.32	1.413	.05	-7	20	83	0
Bis(2-ethylhexyl)phthalate	1000	957.264	.05	4.3	20	92	0
Perylene-d12	1	1	.05	0	20	78	0
Benzo[b]fluoranthene	1.397	1.486	.05	-6.4	20	77	0
Benzo[k]fluoranthene	1.327	1.445	.05	-8.9	20	82	0
Benzo[a]pyrene	1.23	1.364	.05	-10.9	20	81	0
Indeno[1,2,3-cd]pyrene	1.337	1.434	.05	-7.3	20	78	0
Dibenzo[a,h]anthracene	1.244	1.266	.05	-1.8	20	75	0
Benzo[g,h,i]perylene	1.36	1.368	.05	-0.6	20	74	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Alpha Geoscience	**Lab Number**	: L2410579		
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116		
Instrument ID	: SV128	**Calibration Date**	: 03/05/24 06:57		
Lab File ID	: CCV0305A	**Init. Calib. Date(s)**	: 12/11/23	12/13/23	
Sample No	: WG1892213-3	**Init. Calib. Times**	: 13:27	07:14	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,4-Dichlorobenzene-d4	1	1	.05	0	20	52	0
2-Fluorophenol	1.007	0.966	.05	4.1	20	48	0
Phenol-d6	1.177	1.296	.05	-10.1	20	55	0
Bis(2-chloroethyl)ether	1.005	1.094	.05	-8.9	20	56	0
n-nitrosodi-n-propylamine	0.702	0.78	.05	-11.1	20	55	0
Hexachloroethane	0.478	0.463	.05	3.1	20	49	0
Nitrobenzene-d5	0.951	1.199	.05	-26.1*	20	62	0
Naphthalene-d8	1	1	.05	0	20	56	0
Naphthalene	1.026	1.033	.05	-0.7	20	55	0
Hexachlorobutadiene	0.235	0.227	.05	3.4	20	55	0
2-Methylnaphthalene	0.655	0.723	.05	-10.4	20	59	0
1-Methylnaphthalene	0.617	0.672	.05	-8.9	20	59	0
2-Fluorobiphenyl	0.848	0.989	.05	-16.6	20	62	0
2-Chloronaphthalene	0.713	0.828	.05	-16.1	20	62	0
2,6-Dinitrotoluene	1000	1588.617	.05	-58.9*	20	95	0
Acenaphthylene	1.057	1.261	.05	-19.3	20	62	0
Acenaphthene-d10	1	1	.05	0	20	67	0
Acenaphthene	1.352	1.332	.05	1.5	20	64	0
2,4-Dinitrotoluene	1000	1360.545	.05	-36.1*	20	98	0
Fluorene	1.365	1.51	.05	-10.6	20	69	0
2,4,6-Tribromophenol	0.2	0.257	.05	-28.5*	20	80	0
Phenanthrene-d10	1	1	.05	0	20	78	0
4,6-Dinitro-o-cresol	1000	1167.879	.05	-16.8	20	107	0
Hexachlorobenzene	0.266	0.244	.05	8.3	20	72	0
Pentachlorophenol	1000	1028.447	.05	-2.8	20	78	0
Phenanthrene	1.082	1.042	.05	3.7	20	75	0
Anthracene	1.045	1.03	.05	1.4	20	75	0
Fluoranthene	1.188	1.345	.05	-13.2	20	84	0
Pyrene	1.23	1.465	.05	-19.1	20	85	0
4-Terphenyl-d14	0.833	1.023	.05	-22.8*	20	89	0
Chrysene-d12	1	1	.05	0	20	96	0
Benzo[a]anthracene	1000	922.507	.05	7.7	20	90	0
3,3'-Dichlorobenzidine	1000	843.538	.05	15.6	20	88	0
Chrysene	1.379	1.37	.05	0.7	20	92	0
Bis(2-ethylhexyl)phthalate	1000	806.686	.05	19.3	20	89	0
Perylene-d12	1	1	.05	0	20	92	0
Benzo[b]fluoranthene	1.239	1.231	.05	0.6	20	90	0
Benzo[k]fluoranthene	1.153	1.184	.05	-2.7	20	92	0
Benzo[a]pyrene	1.091	1.092	.05	-0.1	20	89	0
Indeno[1,2,3-cd]pyrene	1.091	1.144	.05	-4.9	20	93	0
Dibenzo[a,h]anthracene	1.059	1.136	.05	-7.3	20	90	0
Benzo[g,h,i]perylene	1.134	1.127	.05	0.6	20	85	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Alpha Geoscience	**Lab Number**	: L2410579		
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116		
Instrument ID	: SV119	**Calibration Date**	: 03/05/24 21:16		
Lab File ID	: CCV0305N	**Init. Calib. Date(s)**	: 12/07/23	12/07/23	
Sample No	: WG1892573-3	**Init. Calib. Times**	: 13:10	15:42	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,4-Dichlorobenzene-d4	1	1	.05	0	20	87	0
2-Fluorophenol	1.094	1.149	.05	-5	20	85	0
Phenol-d6	1.311	1.357	.05	-3.5	20	88	0
Bis(2-chloroethyl)ether	1.115	1.12	.05	-0.4	20	87	0
n-nitrosodi-n-propylamine	0.667	0.708	.05	-6.1	20	89	0
Hexachloroethane	0.495	0.496	.05	-0.2	20	86	0
Nitrobenzene-d5	0.995	1.105	.05	-11.1	20	92	0
Naphthalene-d8	1	1	.05	0	20	88	0
Naphthalene	0.955	0.957	.05	-0.2	20	84	0
Hexachlorobutadiene	0.206	0.221	.05	-7.3	20	89	0
2-Methylnaphthalene	0.706	0.704	.05	0.3	20	82	0
1-Methylnaphthalene	0.651	0.629	.05	3.4	20	81	0
2-Fluorobiphenyl	0.893	0.868	.05	2.8	20	81	0
2-Chloronaphthalene	0.752	0.739	.05	1.7	20	84	0
2,6-Dinitrotoluene	0.17	0.19	.05	-11.8	20	95	0
Acenaphthylene	1.118	1.132	.05	-1.3	20	84	0
Acenaphthene-d10	1	1	.05	0	20	90	0
Acenaphthene	1.237	1.214	.05	1.9	20	84	0
2,4-Dinitrotoluene	0.369	0.441	.05	-19.5	20	99	0
Fluorene	1.478	1.492	.05	-0.9	20	85	0
2,4,6-Tribromophenol	0.221	0.244	.05	-10.4	20	92	0
Phenanthrene-d10	1	1	.05	0	20	95	0
4,6-Dinitro-o-cresol	1000	1010.711	.05	-1.1	20	104	0
Hexachlorobenzene	0.259	0.244	.05	5.8	20	86	0
Pentachlorophenol	1000	826.978	.05	17.3	20	82	0
Phenanthrene	1.016	0.982	.05	3.3	20	88	0
Anthracene	1.008	0.978	.05	3	20	87	0
Fluoranthene	1.339	1.333	.05	0.4	20	89	0
Pyrene	1.376	1.368	.05	0.6	20	91	0
4-Terphenyl-d14	0.981	0.806	.05	17.8	20	76	0
Chrysene-d12	1	1	.05	0	20	91	0
Benzo[a]anthracene	1000	1066.469	.05	-6.6	20	87	0
3,3'-Dichlorobenzidine	0.604	0.602	.05	0.3	20	87	0
Chrysene	1.32	1.345	.05	-1.9	20	89	0
Bis(2-ethylhexyl)phthalate	1000	913.333	.05	8.7	20	99	0
Perylene-d12	1	1	.05	0	20	85	0
Benzo[b]fluoranthene	1.397	1.45	.05	-3.8	20	82	0
Benzo[k]fluoranthene	1.327	1.368	.05	-3.1	20	84	0
Benzo[a]pyrene	1.23	1.304	.05	-6	20	85	0
Indeno[1,2,3-cd]pyrene	1.337	1.374	.05	-2.8	20	82	0
Dibenzo[a,h]anthracene	1.244	1.198	.05	3.7	20	77	0
Benzo[g,h,i]perylene	1.36	1.301	.05	4.3	20	77	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Alpha Geoscience	**Lab Number**	: L2410579		
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116		
Instrument ID	: SV119	**Calibration Date**	: 03/06/24 06:56		
Lab File ID	: CCV0306	**Init. Calib. Date(s)**	: 12/07/23	12/07/23	
Sample No	: WG1892736-3	**Init. Calib. Times**	: 13:10	15:42	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,4-Dichlorobenzene-d4	1	1	.05	0	20	105	0
2-Fluorophenol	1.094	1.188	.05	-8.6	20	105	0
Phenol-d6	1.311	1.43	.05	-9.1	20	112	0
Bis(2-chloroethyl)ether	1.115	1.206	.05	-8.2	20	112	0
n-nitrosodi-n-propylamine	0.667	0.772	.05	-15.7	20	116	0
Hexachloroethane	0.495	0.53	.05	-7.1	20	110	0
Nitrobenzene-d5	0.995	1.187	.05	-19.3	20	118	0
Naphthalene-d8	1	1	.05	0	20	107	0
Naphthalene	0.955	0.997	.05	-4.4	20	107	0
Hexachlorobutadiene	0.206	0.233	.05	-13.1	20	115	0
2-Methylnaphthalene	0.706	0.743	.05	-5.2	20	106	0
1-Methylnaphthalene	0.651	0.662	.05	-1.7	20	105	0
2-Fluorobiphenyl	0.893	0.927	.05	-3.8	20	106	0
2-Chloronaphthalene	0.752	0.777	.05	-3.3	20	107	0
2,6-Dinitrotoluene	0.17	0.208	.05	-22.4*	20	128	0
Acenaphthylene	1.118	1.217	.05	-8.9	20	110	0
Acenaphthene-d10	1	1	.05	0	20	110	0
Acenaphthene	1.237	1.278	.05	-3.3	20	107	0
2,4-Dinitrotoluene	0.369	0.477	.05	-29.3*	20	130	0
Fluorene	1.478	1.582	.05	-7	20	110	0
2,4,6-Tribromophenol	0.221	0.262	.05	-18.6	20	120	0
Phenanthrene-d10	1	1	.05	0	20	113	0
4,6-Dinitro-o-cresol	1000	1092.793	.05	-9.3	20	134	0
Hexachlorobenzene	0.259	0.261	.05	-0.8	20	108	0
Pentachlorophenol	1000	934.627	.05	6.5	20	110	0
Phenanthrene	1.016	1.023	.05	-0.7	20	108	0
Anthracene	1.008	1.04	.05	-3.2	20	110	0
Fluoranthene	1.339	1.377	.05	-2.8	20	109	0
Pyrene	1.376	1.401	.05	-1.8	20	110	0
4-Terphenyl-d14	0.981	0.829	.05	15.5	20	92	0
Chrysene-d12	1	1	.05	0	20	100	0
Benzo[a]anthracene	1000	1144.104	.05	-14.4	20	104	0
3,3'-Dichlorobenzidine	0.604	0.645	.05	-6.8	20	103	0
Chrysene	1.32	1.412	.05	-7	20	104	0
Bis(2-ethylhexyl)phthalate	1000	1011.732	.05	-1.2	20	122	0
Perylene-d12	1	1	.05	0	20	89	0
Benzo[b]fluoranthene	1.397	1.604	.05	-14.8	20	95	0
Benzo[k]fluoranthene	1.327	1.435	.05	-8.1	20	93	0
Benzo[a]pyrene	1.23	1.405	.05	-14.2	20	96	0
Indeno[1,2,3-cd]pyrene	1.337	1.455	.05	-8.8	20	91	0
Dibenzo[a,h]anthracene	1.244	1.243	.05	0.1	20	85	0
Benzo[g,h,i]perylene	1.36	1.337	.05	1.7	20	84	0

*** Value outside of QC limits.**

Evaluate Continuing Calibration Report

Data Path : I:\8270SIM\sv119\240305LVI\
Data File : ccv0305.D
Acq On : 05 Mar 2024 06:33 am
Operator : sv119:ah
Sample : WG1892203-3,32,, ICV 10475 (0303)
Misc : WG1892203,,ical20642
ALS Vial : 49 Sample Multiplier: 1

Quant Time: Mar 05 06:52:13 2024
Quant Method : I:\8270SIM\sv119\240305LVI\SIM-LVI_231207n_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Mar 05 06:52:36 2024
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	i	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	82	0.00
2	s	2-Fluorophenol	1.094	1.197	-9.4	83	0.00
3	s	Phenol-d6	1.311	1.379	-5.2	84	0.00
4	T	Bis(2-chloroethyl)ether	1.115	1.152	-3.3	83	0.00
5	T	n-nitrosodi-n-propylamine	0.667	0.703	-5.4	83	0.00
6	t	Hexachloroethane	0.495	0.520	-5.1	84	0.00
7	s	Nitrobenzene-d5	0.995	1.089	-9.4	84	0.00
8	i	Naphthalene-d8	1.000	1.000	0.0	80	0.00
9	t	Naphthalene	0.955	0.991	-3.8	80	0.00
10	t	Hexachlorobutadiene	0.206	0.237	-15.0	88	0.00
11	t	2-Methylnaphthalene	0.706	0.720	-2.0	77	0.00
12	t	1-Methylnaphthalene	0.651	0.644	1.1	77	0.00
13	s	2-Fluorobiphenyl	0.893	0.901	-0.9	77	0.00
14	t	2-Chloronaphthalene	0.752	0.756	-0.5	79	0.00
15	t	2,6-Dinitrotoluene	0.170	0.186	-9.4	86	0.00
16	t	Acenaphthylene	1.118	1.158	-3.6	78	0.00
17	i	Acenaphthene-d10	1.000	1.000	0.0	81	0.00
18	t	Acenaphthene	1.237	1.261	-1.9	78	0.00
19	t	2,4-Dinitrotoluene	0.369	0.435	-17.9	88	0.00
20	t	Fluorene	1.478	1.522	-3.0	78	0.00
21	s	2,4,6-Tribromophenol	0.221	0.246	-11.3	84	0.00
22	i	Phenanthrene-d10	1.000	1.000	0.0	83	0.00
23	T	4,6-Dinitro-o-cresol	*1000.000	986.317	1.4	88	0.00
24	t	Hexachlorobenzene	0.259	0.255	1.5	78	0.00
25	t	Pentachlorophenol	*1000.000	777.078	22.3#	67	0.00
26	t	Phenanthrene	1.016	1.022	-0.6	79	0.00
27	t	Anthracene	1.008	1.034	-2.6	80	0.00
28	t	Fluoranthene	1.339	1.392	-4.0	80	0.00
29	t	Pyrene	1.376	1.438	-4.5	82	0.00
30	s	4-Terphenyl-d14	0.981	0.853	13.0	69	0.00
31	i	Chrysene-d12	1.000	1.000	0.0	80	0.00
32	t	Benzo[a]anthracene	*1000.000	1124.001	-12.4	82	0.00
33	t	3,3'-Dichlorobenzidine	0.604	0.618	-2.3	79	0.00
34	t	Chrysene	1.320	1.413	-7.0	83	0.00
35	T	Bis(2-ethylhexyl)phthalate	*1000.000	957.264	4.3	92	0.00

Data Path : I:\8270SIM\sv119\240305LVI\
Data File : ccv0305.D
Acq On : 05 Mar 2024 06:33 am
Operator : sv119:ah
Sample : WG1892203-3,32,, ICV 10475 (0303)
Misc : WG1892203,,ical20642
ALS Vial : 49 Sample Multiplier: 1

Quant Time: Mar 05 06:52:13 2024
Quant Method : I:\8270SIM\sv119\240305LVI\SIM-LVI_231207n_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Mar 05 06:52:36 2024
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
36	i	Perylene-d12	1.000	1.000	0.0	78	0.00
37	t	Benzo[b]fluoranthene	1.397	1.486	-6.4	77	0.00
38	t	Benzo[k]fluoranthene	1.327	1.445	-8.9	82	0.00
39	t	Benzo[a]pyrene	1.230	1.364	-10.9	81	0.00
40	t	Indeno[1,2,3-cd]pyrene	1.337	1.434	-7.3	78	0.00
41	t	Dibenzo[a,h]anthracene	1.244	1.266	-1.8	75	0.00
42	t	Benzo[g,h,i]perylene	1.360	1.368	-0.6	74	0.00

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\240305LVI\
Data File : ccv0305.D
Acq On : 05 Mar 2024 06:33 am
Operator : sv119:ah
Sample : WG1892203-3,32,, ICV 10475 (0303)
Misc : WG1892203,,ical20642
ALS Vial : 49 Sample Multiplier: 1

Quant Time: Mar 05 06:52:13 2024
Quant Method : I:\8270SIM\sv119\240305LVI\SIM-LVI_231207n_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Mar 05 06:52:36 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	2.142	152	36011	4000.000	ng/ml		0.00
8) Naphthalene-d8	2.803	136	124401	4000.000	ng/ml		0.00
17) Acenaphthene-d10	3.771	164	72135	4000.000	ng/ml		0.00
22) Phenanthrene-d10	4.602	188	164519	4000.000	ng/ml	#	0.00
31) Chrysene-d12	6.142	240	159349	4000.000	ng/ml		0.00
36) Perylene-d12	7.247	264	166959	4000.000	ng/ml		0.00
System Monitoring Compounds							
2) 2-Fluorophenol	1.548	112	10774	1093.851	ng/ml		0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 21.88%				
3) Phenol-d6	1.962	99	12419	1051.864	ng/ml		0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 21.04%				
7) Nitrobenzene-d5	2.422	82	9808	1095.151	ng/ml		0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 43.81%				
13) 2-Fluorobiphenyl	3.398	172	28009	1008.114	ng/ml		0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 40.32%				
21) 2,4,6-Tribromophenol	4.211	330	4445	1117.700	ng/ml		0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 22.35%				
30) 4-Terphenyl-d14	5.517	244	35079	869.774	ng/ml		0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 34.79%				
Target Compounds							Qvalue
4) Bis(2-chloroethyl)ether	2.008	93	10373	1033.080	ng/ml		96
5) n-nitrosodi-n-propylamine	2.344	70	6329	1053.909	ng/ml		94
6) Hexachloroethane	2.401	117	4685	1051.674	ng/ml		81
9) Naphthalene	2.814	128	30818	1037.487	ng/ml		100
10) Hexachlorobutadiene	2.888	225	7374	1152.710	ng/ml		100
11) 2-Methylnaphthalene	3.192	142	22391	1019.481	ng/ml		97
12) 1-Methylnaphthalene	3.247	142	20036	989.262	ng/ml		98
14) 2-Chloronaphthalene	3.461	162	23502	1004.562	ng/ml		97
15) 2,6-Dinitrotoluene	3.653	165	5781	1094.304	ng/ml	#	76
16) Acenaphthylene	3.688	152	36012	1035.819	ng/ml		100
18) Acenaphthene	3.786	153	22744	1019.904	ng/ml		99
19) 2,4-Dinitrotoluene	3.878	165	7849	1180.522	ng/ml	#	77
20) Fluorene	4.076	166	27452	1029.878	ng/ml		98
23) 4,6-Dinitro-o-cresol	4.106	198	4674	986.317	ng/ml		94
24) Hexachlorobenzene	4.389	284	10505	987.705	ng/ml		95
25) Pentachlorophenol	4.501	266	5211	777.078	ng/ml		99
26) Phenanthrene	4.614	178	42045	1006.085	ng/ml		100
27) Anthracene	4.643	178	42524	1026.101	ng/ml		100

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\240305LVI\
Data File : ccv0305.D
Acq On : 05 Mar 2024 06:33 am
Operator : sv119:ah
Sample : WG1892203-3,32,, ICV 10475 (0303)
Misc : WG1892203,,ical20642
ALS Vial : 49 Sample Multiplier: 1

Quant Time: Mar 05 06:52:13 2024
Quant Method : I:\8270SIM\sv119\240305LVI\SIM-LVI_231207n_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Mar 05 06:52:36 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
28) Fluoranthene	5.290	202	57242	1039.282	ng/ml	95
29) Pyrene	5.421	202	59158	1045.471	ng/ml	98
32) Benzo[a]anthracene	6.136	228	60001	1124.001	ng/ml	100
33) 3,3'-Dichlorobenzidine	6.127	252	24634	1023.251	ng/ml	99
34) Chrysene	6.157	228	56299	1070.502	ng/ml	100
35) Bis(2-ethylhexyl)phtha...	6.168	149	33363	957.264	ng/ml	97
37) Benzo[b]fluoranthene	6.910	252	62020	1063.295	ng/ml	100
38) Benzo[k]fluoranthene	6.931	252	60312	1088.938	ng/ml	100
39) Benzo[a]pyrene	7.194	252	56917	1108.598	ng/ml	100
40) Indeno[1,2,3-cd]pyrene	8.379	276	59862	1072.808	ng/ml	100
41) Dibenzo[a,h]anthracene	8.413	278	52843M6	1017.866	ng/ml	
42) Benzo[g,h,i]perylene	8.697	276	57081	1005.677	ng/ml	98

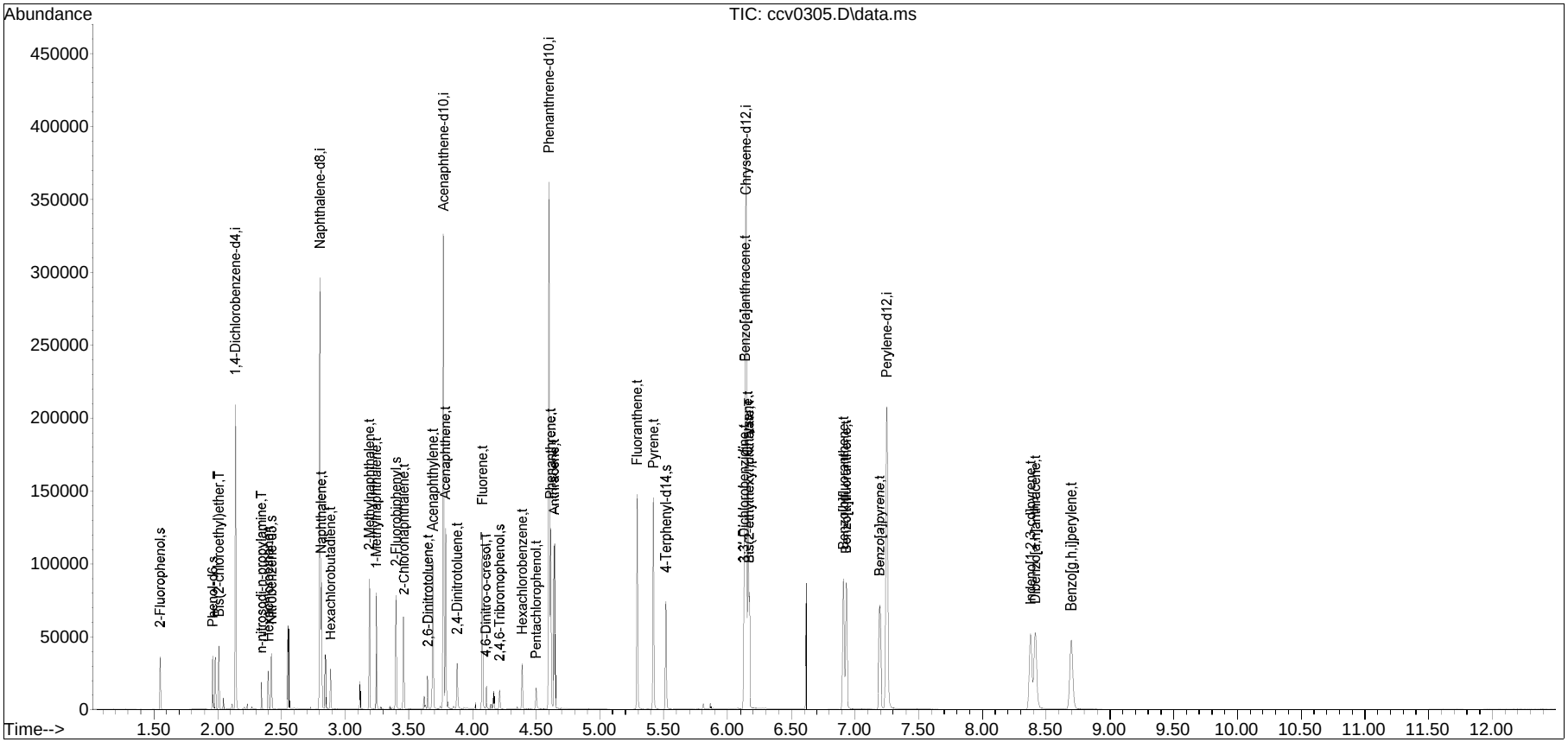
(#) = qualifier out of range (m) = manual integration (+) = signals summed

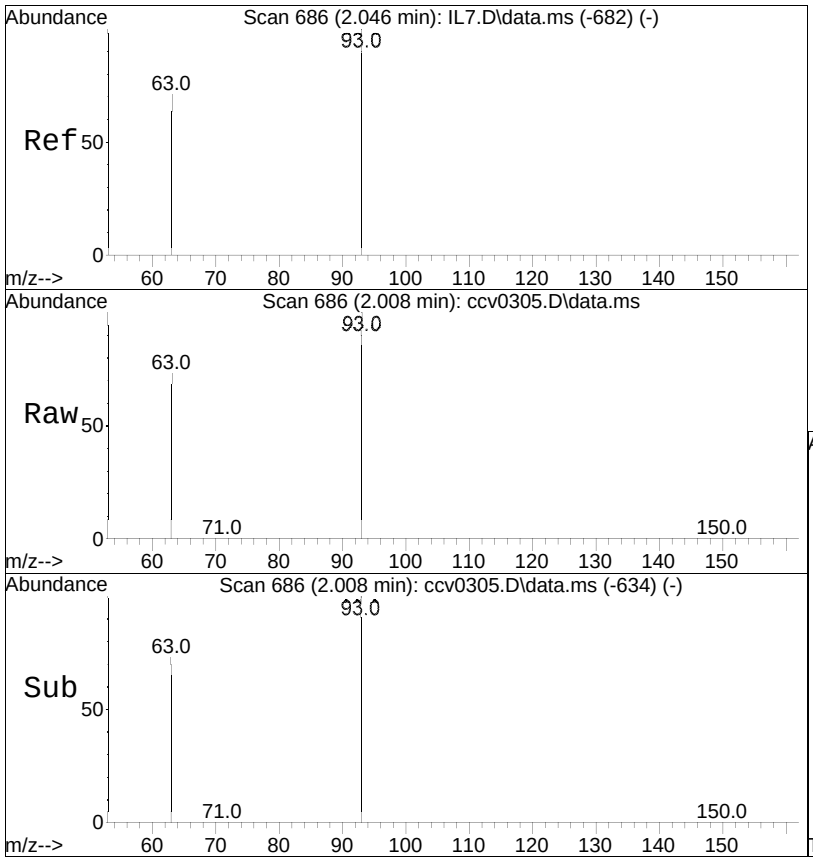
Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\240305LVI\
Data File : ccv0305.D
Acq On : 05 Mar 2024 06:33 am
Operator : sv119:ah
Sample : WG1892203-3,32,, ICV 10475 (0303)
Misc : WG1892203,,ical20642
ALS Vial : 49 Sample Multiplier: 1

Quant Time: Mar 05 06:52:13 2024
Quant Method : I:\8270SIM\sv119\240305LVI\SIM-LVI_231207n_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Mar 05 06:52:36 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

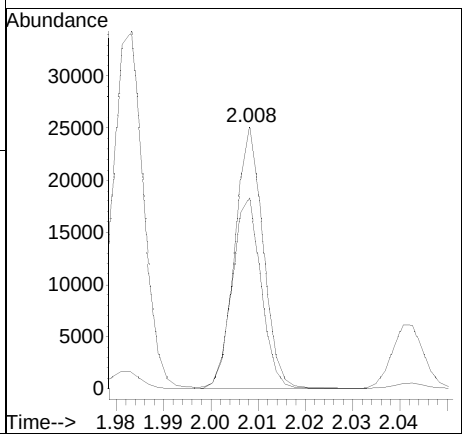


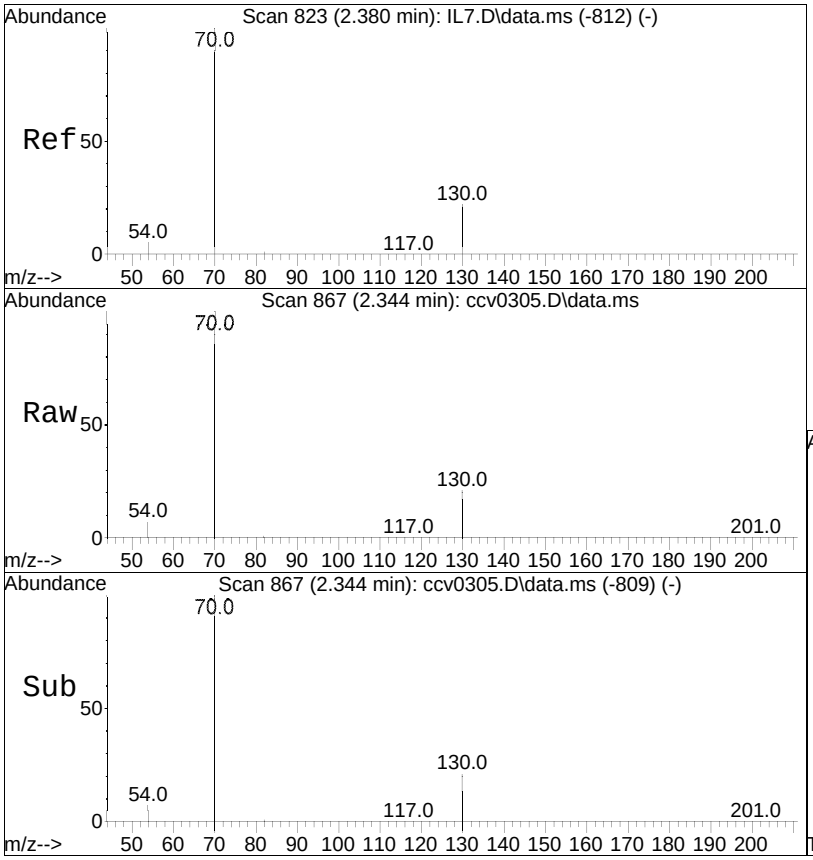


#4
Bis(2-chloroethyl)ether
Concen: 1033.08 ng/ml
RT: 2.008 min Scan# 686
Delta R.T. 0.000 min
Lab File: ccv0305.D
Acq: 05 Mar 2024 06:33 am

Tgt Ion: 93 Resp: 10373

Ion	Ratio	Lower	Upper
93	100		
63	74.8	62.6	94.0

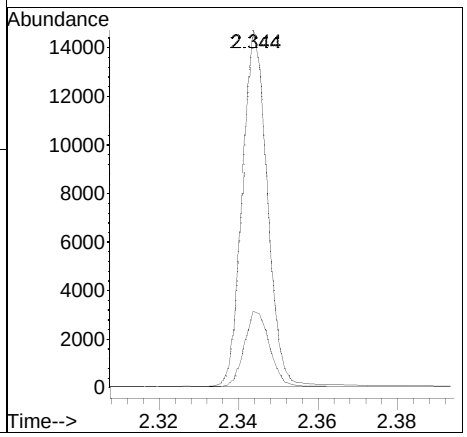


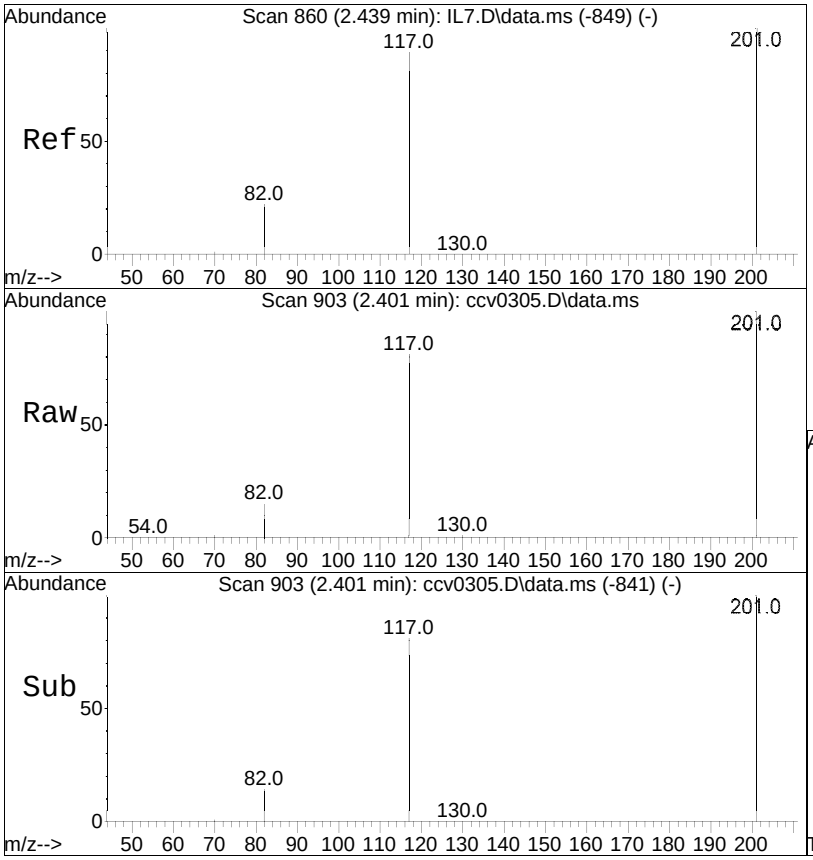


#5
n-nitrosodi-n-propylamine
Concen: 1053.91 ng/ml
RT: 2.344 min Scan# 867
Delta R.T. 0.000 min
Lab File: ccv0305.D
Acq: 05 Mar 2024 06:33 am

Tgt Ion: 70 Resp: 6329

Ion	Ratio	Lower	Upper
70	100		
130	21.4	15.0	22.6

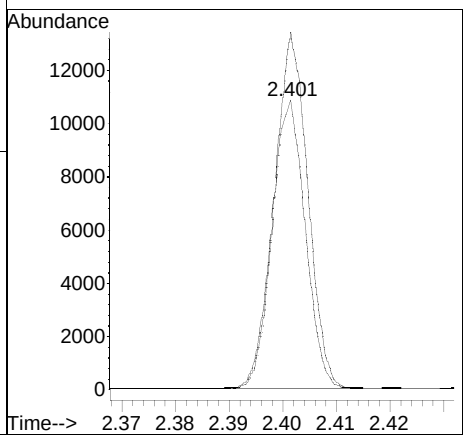


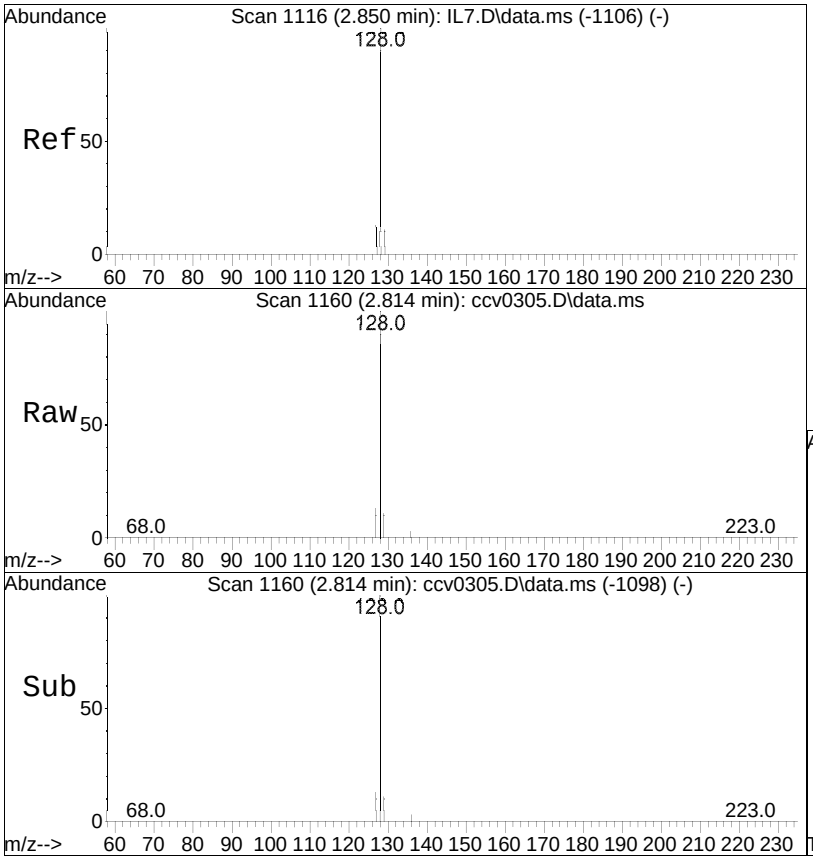


#6
Hexachloroethane
Concen: 1051.67 ng/ml
RT: 2.401 min Scan# 903
Delta R.T. 0.000 min
Lab File: ccv0305.D
Acq: 05 Mar 2024 06:33 am

Tgt Ion:117 Resp: 4685

Ion	Ratio	Lower	Upper
117	100		
201	120.9	81.5	122.3

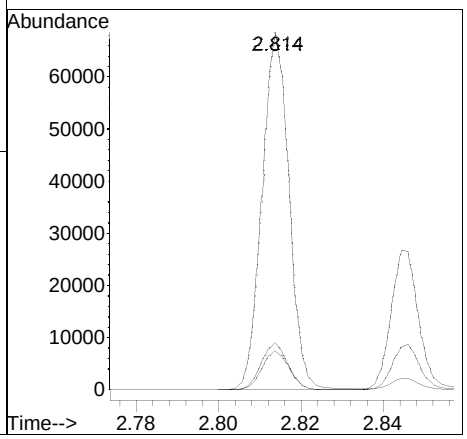


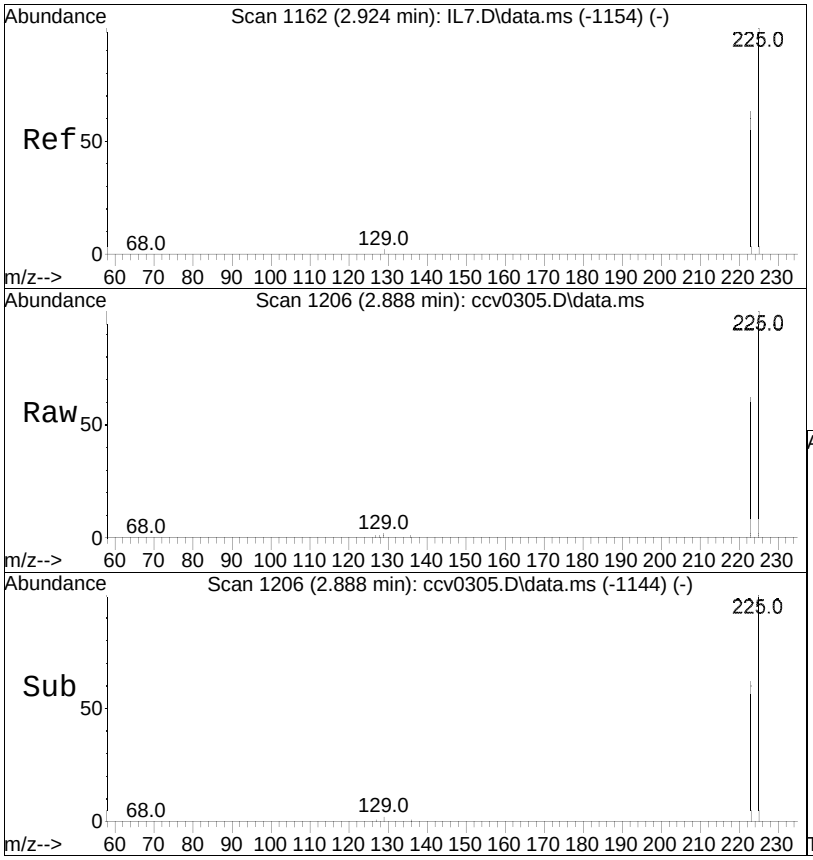


#9
Naphthalene
Concen: 1037.49 ng/ml
RT: 2.814 min Scan# 1160
Delta R.T. 0.000 min
Lab File: ccv0305.D
Acq: 05 Mar 2024 06:33 am

Tgt Ion:128 Resp: 30818

Ion	Ratio	Lower	Upper
128	100		
129	11.0	8.8	13.2
127	13.0	10.6	15.8

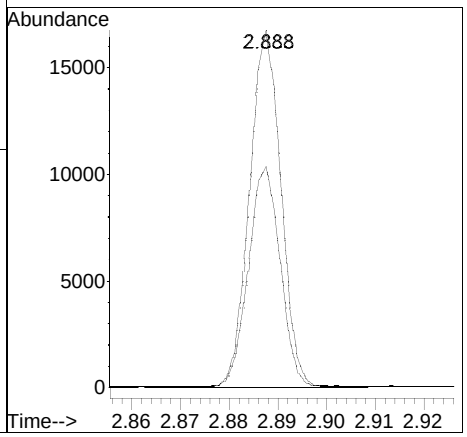


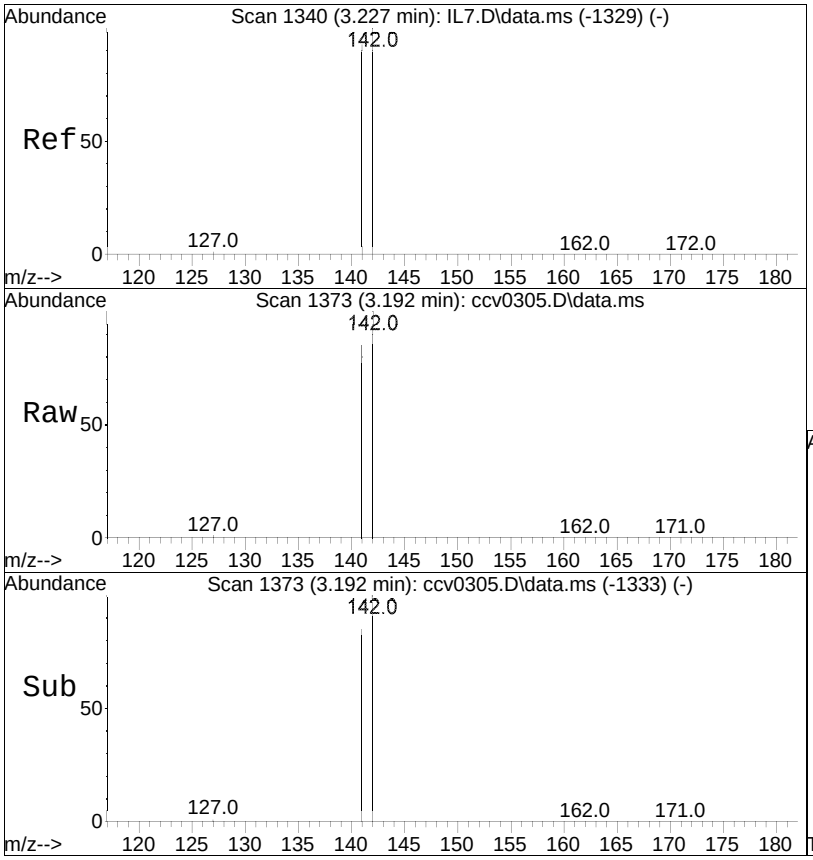


#10
Hexachlorobutadiene
Concen: 1152.71 ng/ml
RT: 2.888 min Scan# 1206
Delta R.T. 0.000 min
Lab File: ccv0305.D
Acq: 05 Mar 2024 06:33 am

Tgt Ion:225 Resp: 7374

Ion	Ratio	Lower	Upper
225	100		
223	62.7	50.1	75.1

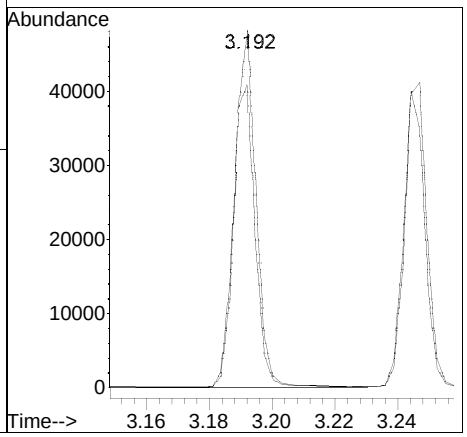


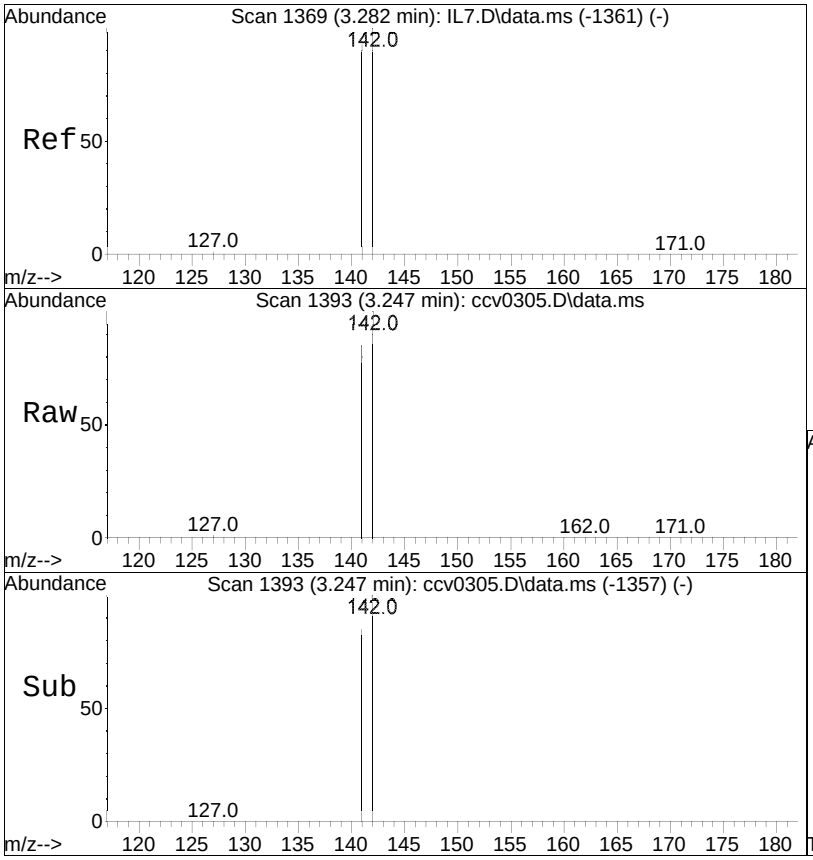


#11
2-Methylnaphthalene
Concen: 1019.48 ng/ml
RT: 3.192 min Scan# 1373
Delta R.T. 0.000 min
Lab File: ccv0305.D
Acq: 05 Mar 2024 06:33 am

Tgt Ion:142 Resp: 22391

Ion	Ratio	Lower	Upper
142	100		
141	90.0	74.1	111.1

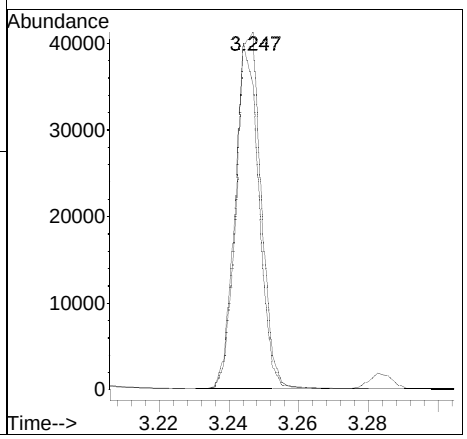


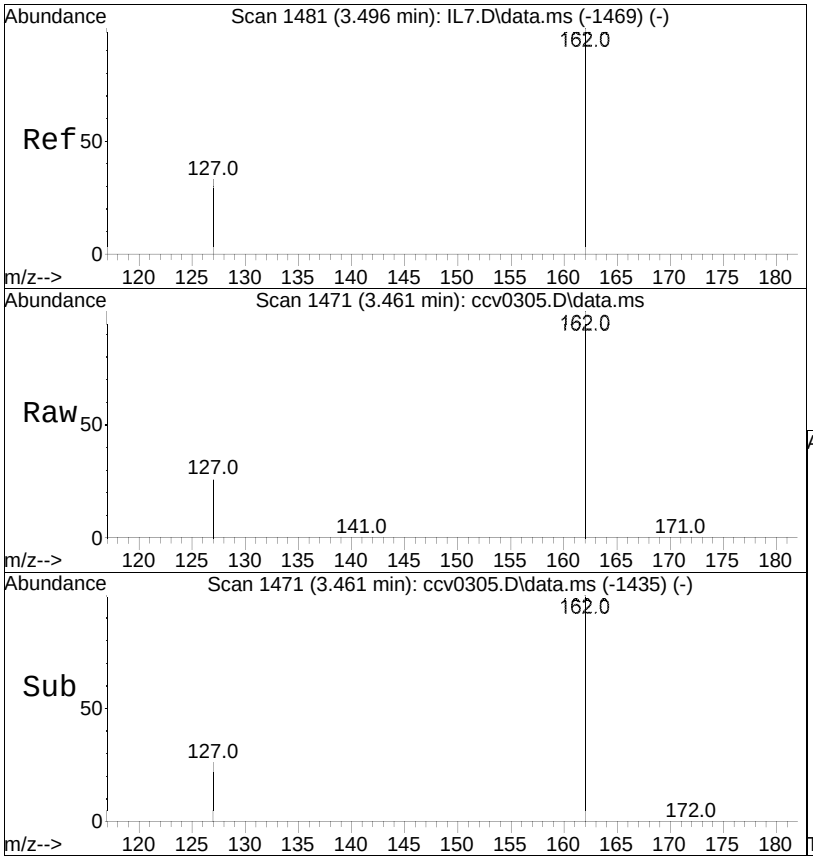


#12
1-Methylnaphthalene
Concen: 989.26 ng/ml
RT: 3.247 min Scan# 1393
Delta R.T. 0.000 min
Lab File: ccv0305.D
Acq: 05 Mar 2024 06:33 am

Tgt Ion:142 Resp: 20036

Ion	Ratio	Lower	Upper
142	100		
141	93.9	76.6	114.8

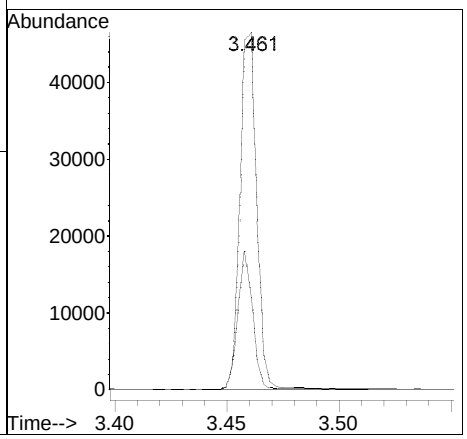


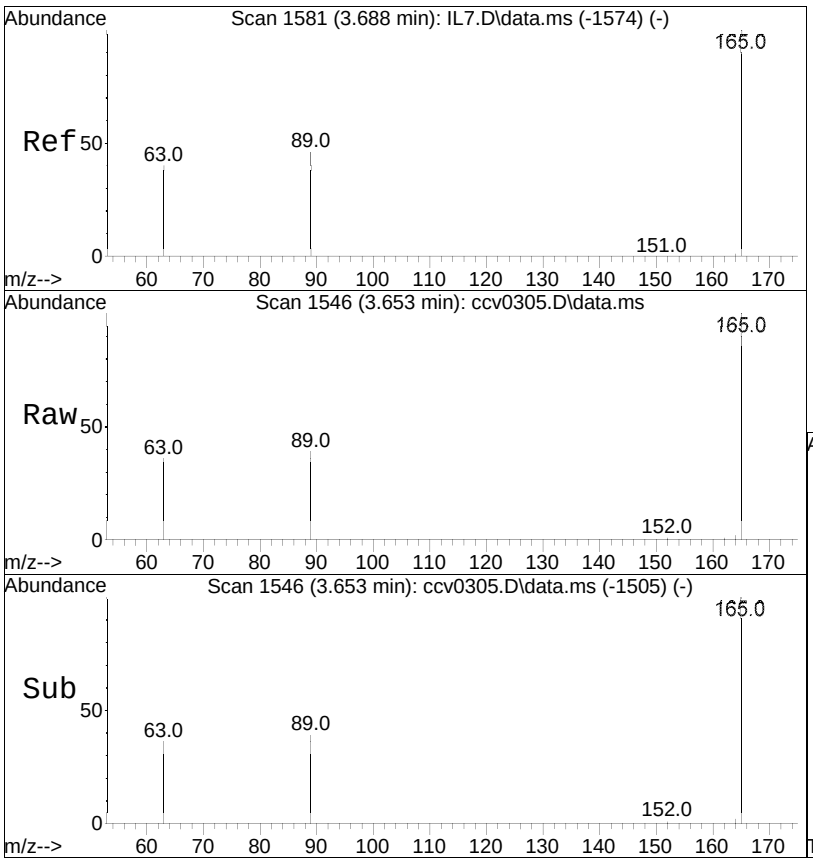


#14
2-Chloronaphthalene
Concen: 1004.56 ng/ml
RT: 3.461 min Scan# 1471
Delta R.T. 0.000 min
Lab File: ccv0305.D
Acq: 05 Mar 2024 06:33 am

Tgt Ion:162 Resp: 23502

Ion	Ratio	Lower	Upper
162	100		
127	35.1	29.7	44.5

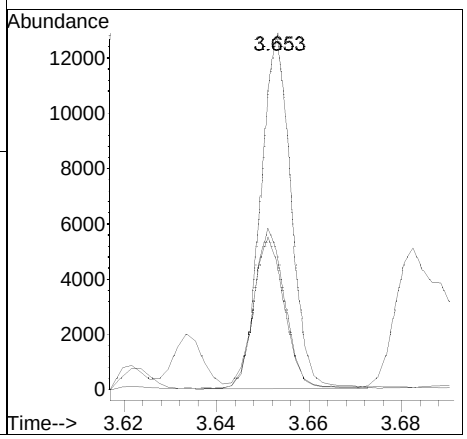


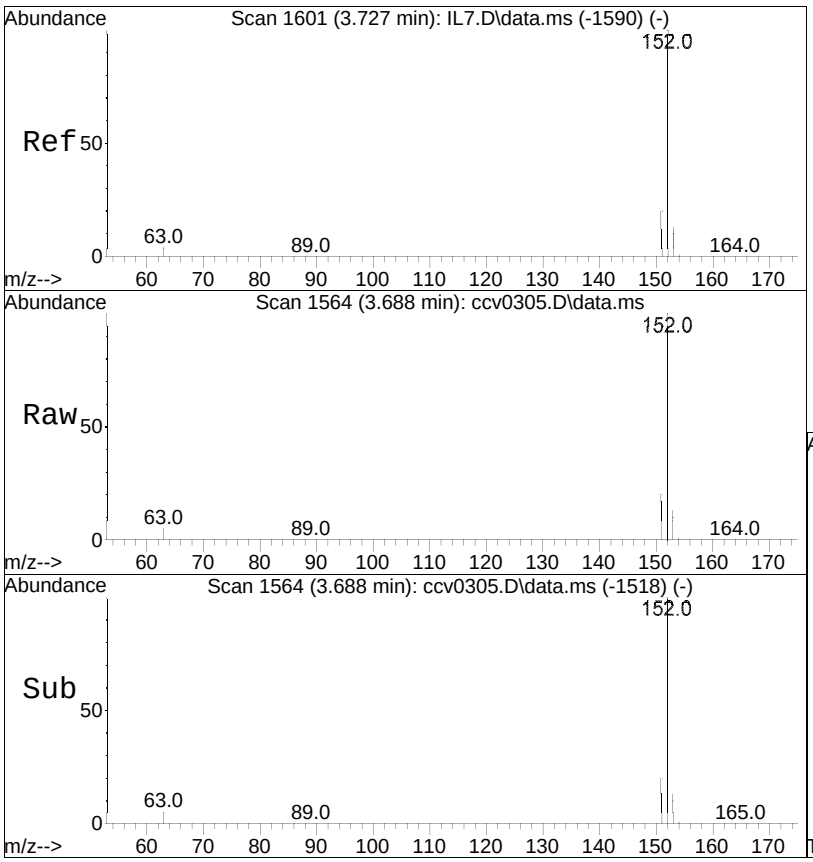


#15
2,6-Dinitrotoluene
Concen: 1094.30 ng/ml
RT: 3.653 min Scan# 1546
Delta R.T. 0.000 min
Lab File: ccv0305.D
Acq: 05 Mar 2024 06:33 am

Tgt Ion:165 Resp: 5781

Ion	Ratio	Lower	Upper
165	100		
89	46.9	52.8	79.2#
63	45.0	50.9	76.3#

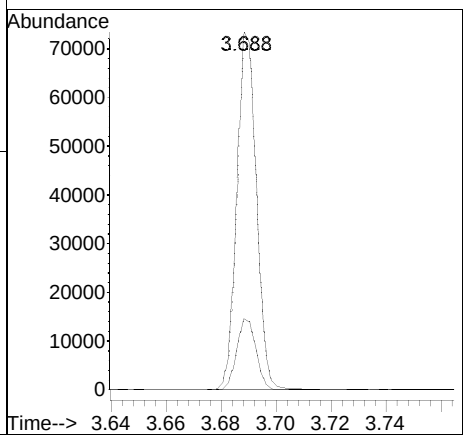


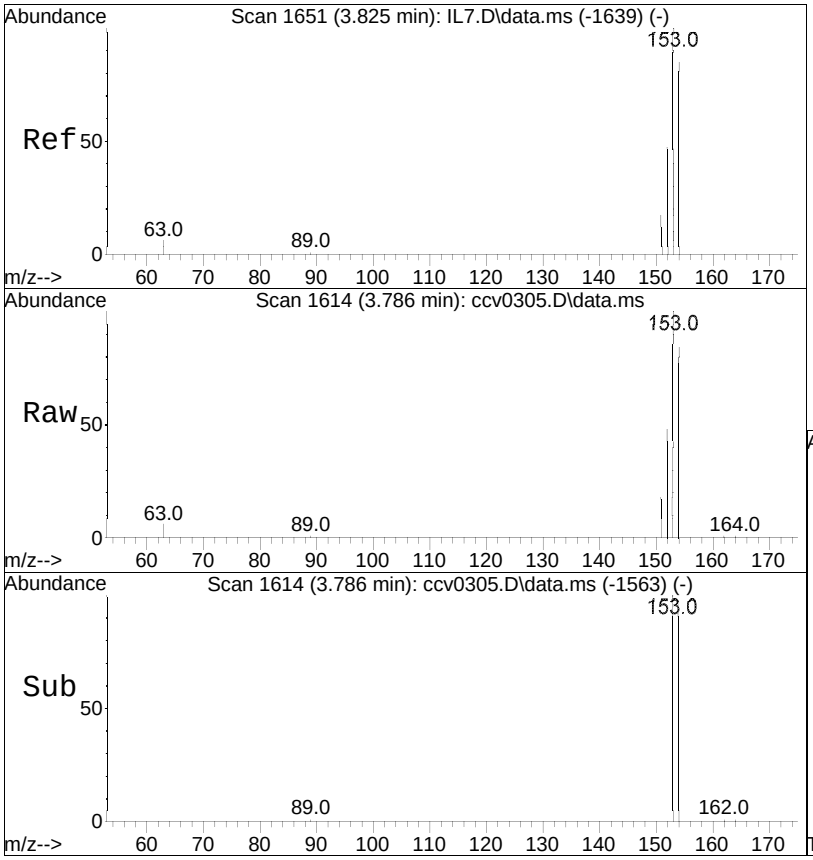


#16
Acenaphthylene
Concen: 1035.82 ng/ml
RT: 3.688 min Scan# 1564
Delta R.T. 0.000 min
Lab File: ccv0305.D
Acq: 05 Mar 2024 06:33 am

Tgt Ion:152 Resp: 36012

Ion	Ratio	Lower	Upper
152	100		
151	19.8	16.0	24.0

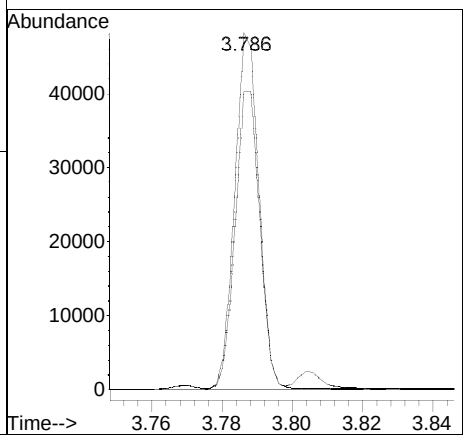


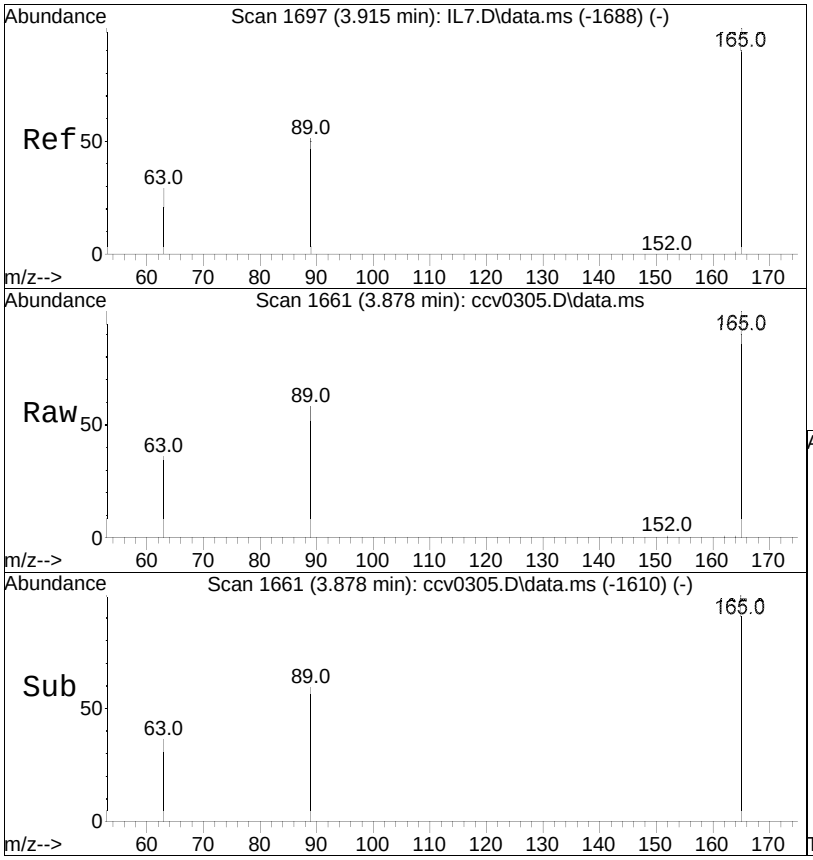


#18
Acenaphthene
Concen: 1019.90 ng/ml
RT: 3.786 min Scan# 1614
Delta R.T. 0.000 min
Lab File: ccv0305.D
Acq: 05 Mar 2024 06:33 am

Tgt Ion:153 Resp: 22744

Ion	Ratio	Lower	Upper
153	100		
154	84.8	66.9	100.3

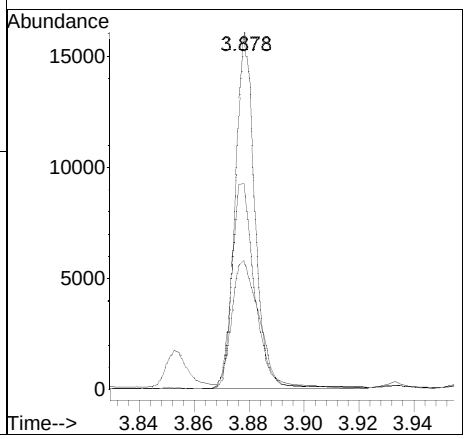


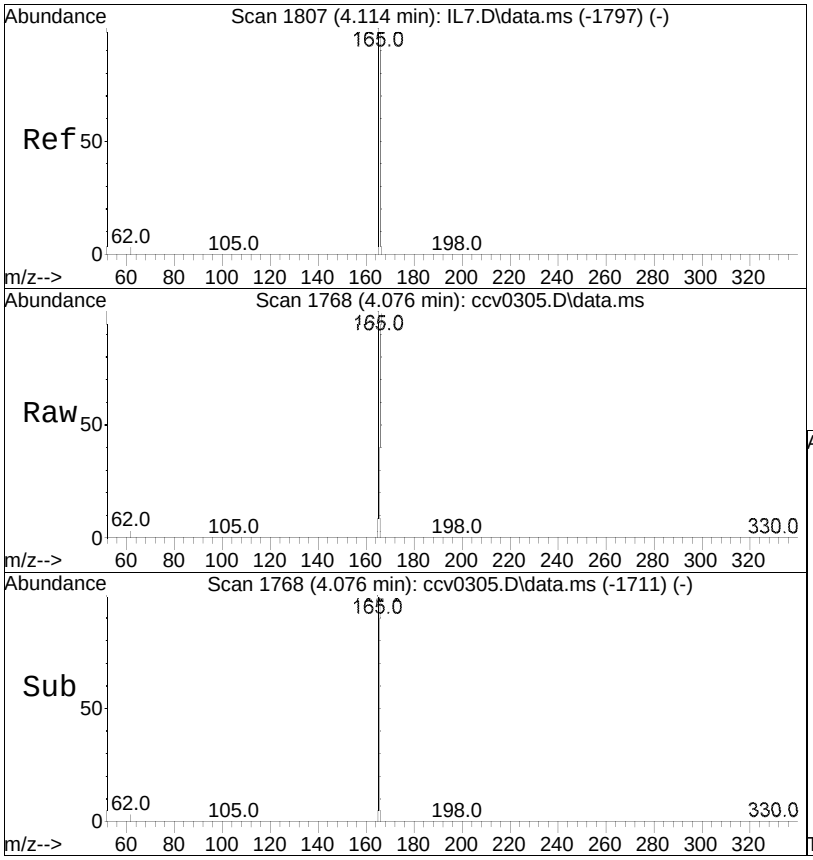


#19
2,4-Dinitrotoluene
Concen: 1180.52 ng/ml
RT: 3.878 min Scan# 1661
Delta R.T. 0.000 min
Lab File: ccv0305.D
Acq: 05 Mar 2024 06:33 am

Tgt Ion:165 Resp: 7849

Ion	Ratio	Lower	Upper
165	100		
89	67.4	80.1	120.1#
63	50.3	38.9	58.3

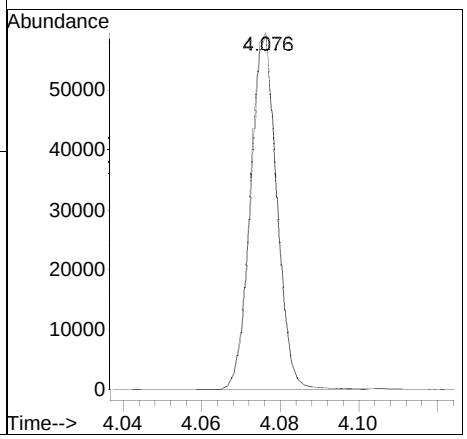


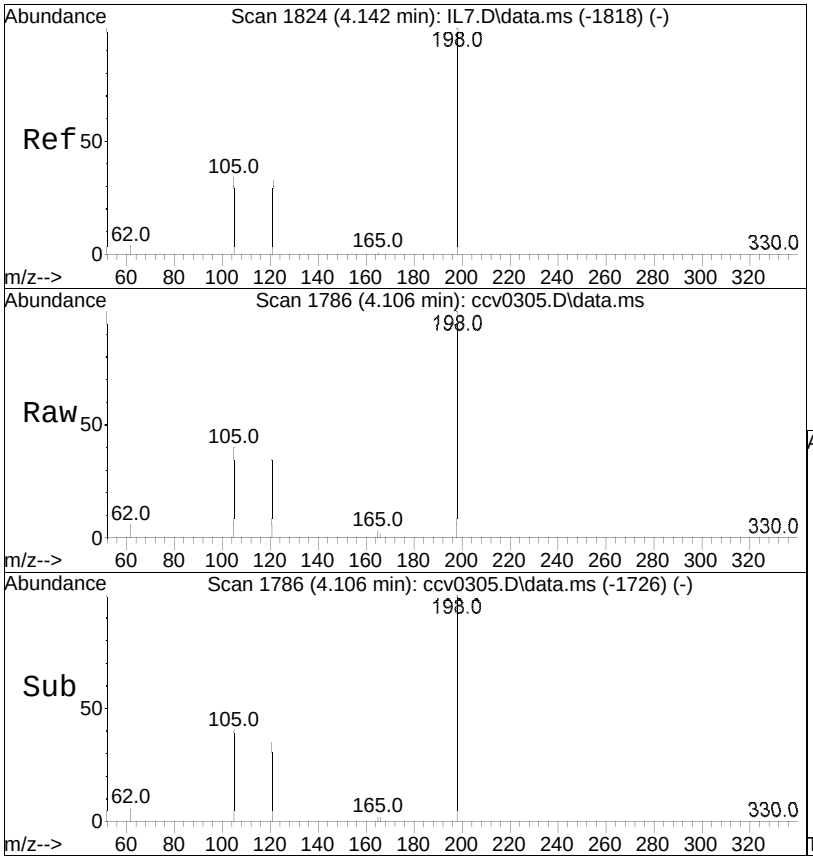


#20
Fluorene
Concen: 1029.88 ng/ml
RT: 4.076 min Scan# 1768
Delta R.T. 0.000 min
Lab File: ccv0305.D
Acq: 05 Mar 2024 06:33 am

Tgt Ion:166 Resp: 27452

Ion	Ratio	Lower	Upper
166	100		
165	101.7	82.9	124.3

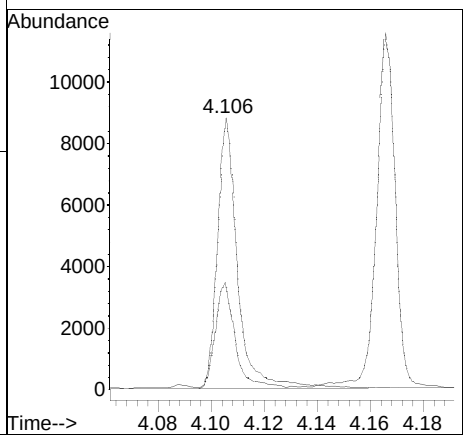


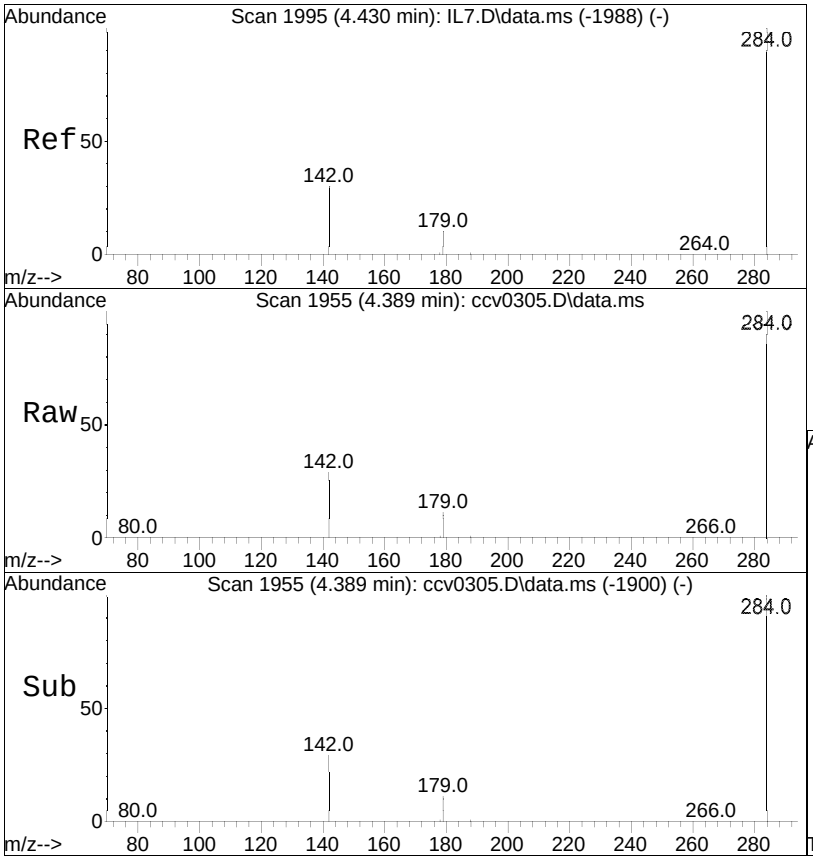


#23
4,6-Dinitro-o-cresol
Concen: 986.32 ng/ml
RT: 4.106 min Scan# 1786
Delta R.T. 0.000 min
Lab File: ccv0305.D
Acq: 05 Mar 2024 06:33 am

Tgt Ion:198 Resp: 4674

Ion	Ratio	Lower	Upper
198	100		
105	36.5	32.2	48.4

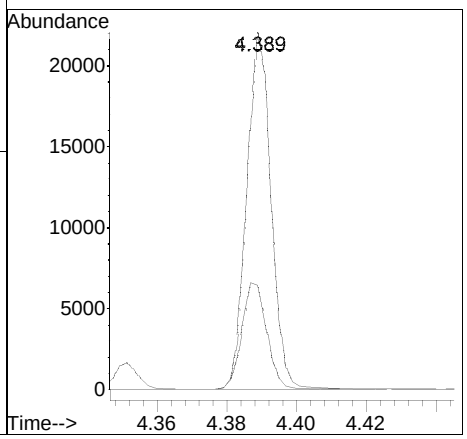


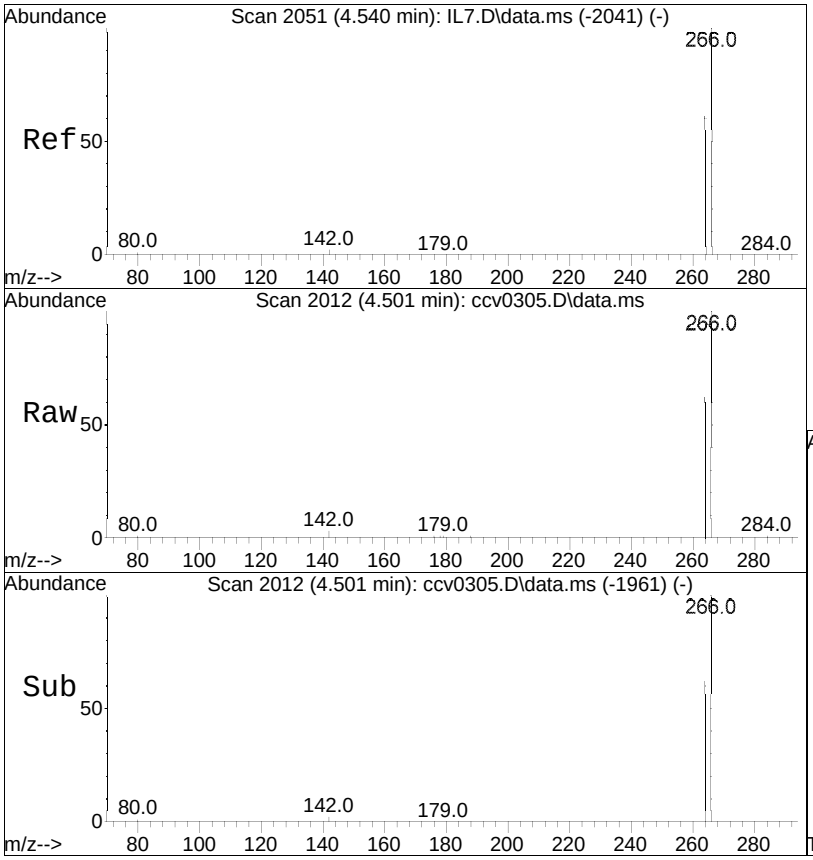


#24
Hexachlorobenzene
Concen: 987.71 ng/ml
RT: 4.389 min Scan# 1955
Delta R.T. 0.000 min
Lab File: ccv0305.D
Acq: 05 Mar 2024 06:33 am

Tgt Ion:284 Resp: 10505

Ion	Ratio	Lower	Upper
284	100		
142	30.9	26.9	40.3

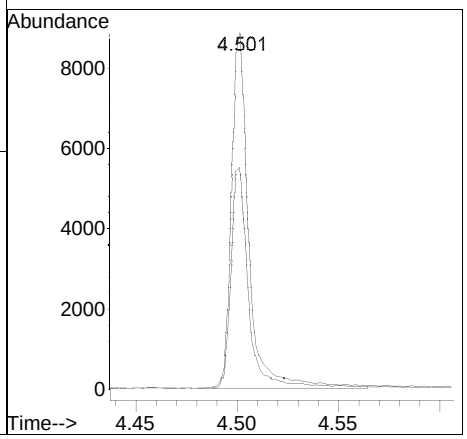


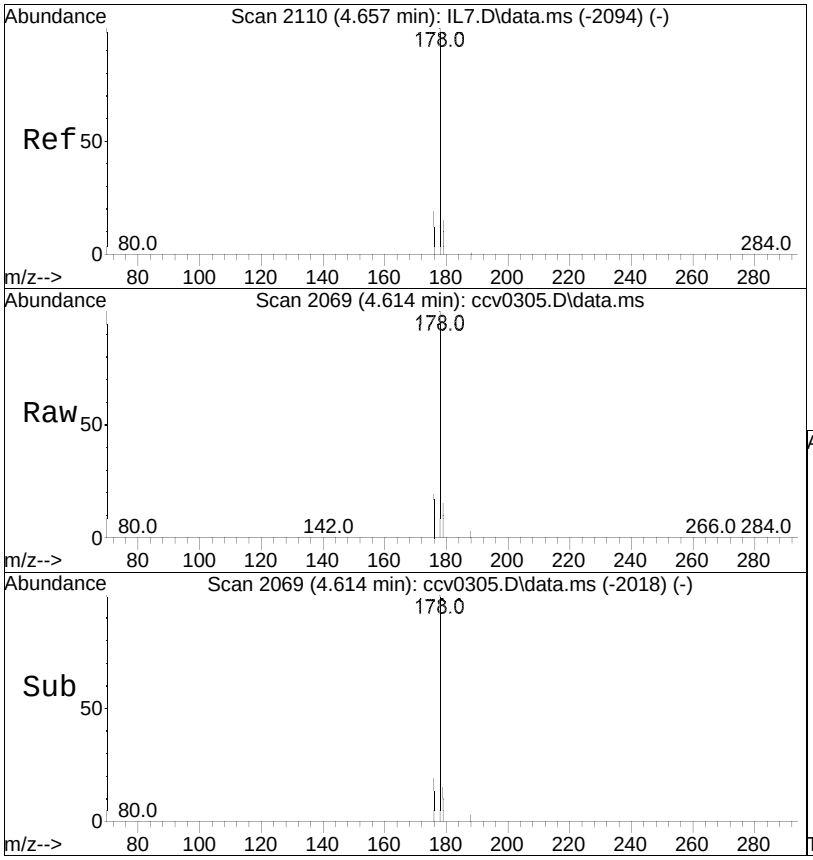


#25
Pentachlorophenol
Concen: 777.08 ng/ml
RT: 4.501 min Scan# 2012
Delta R.T. 0.000 min
Lab File: ccv0305.D
Acq: 05 Mar 2024 06:33 am

Tgt Ion:266 Resp: 5211

Ion	Ratio	Lower	Upper
266	100		
264	62.2	50.7	76.1

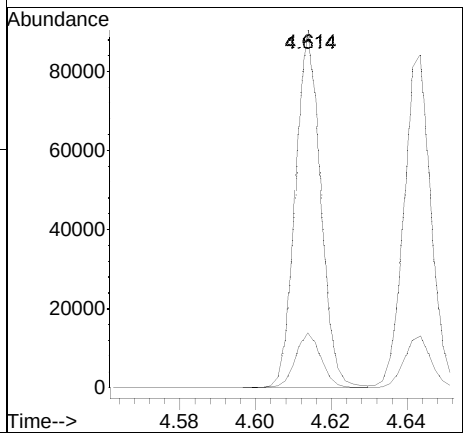


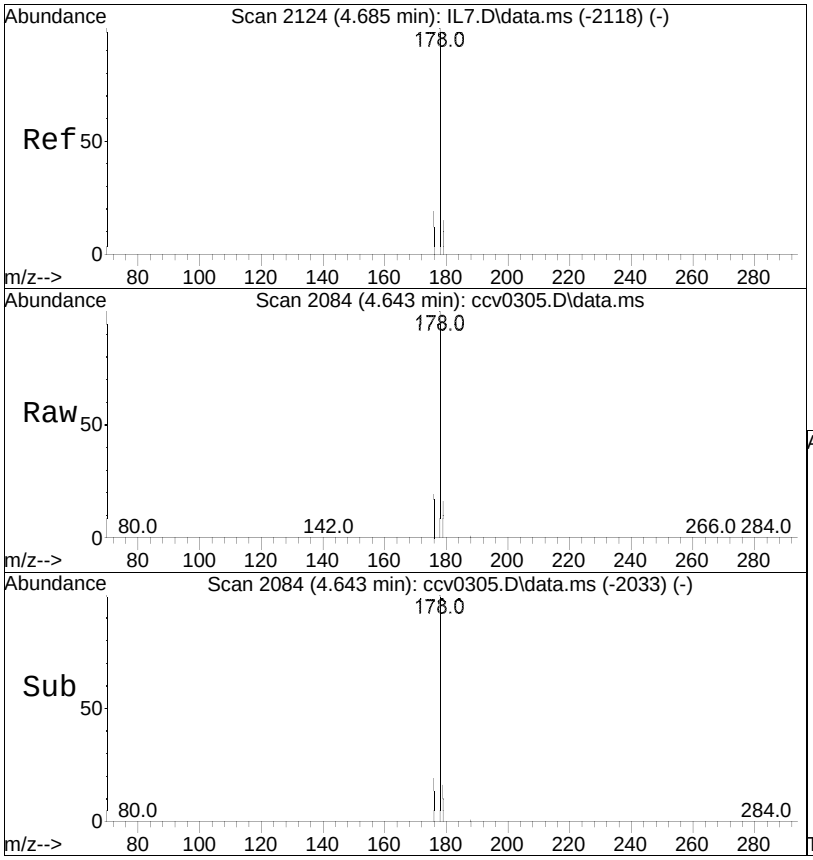


#26
Phenanthrene
Concen: 1006.09 ng/ml
RT: 4.614 min Scan# 2069
Delta R.T. 0.000 min
Lab File: ccv0305.D
Acq: 05 Mar 2024 06:33 am

Tgt Ion:178 Resp: 42045

Ion	Ratio	Lower	Upper
178	100		
179	15.4	12.3	18.5

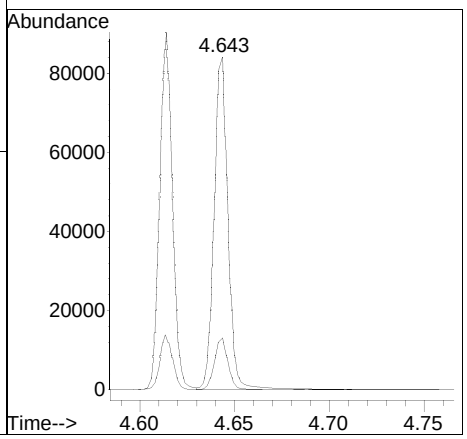


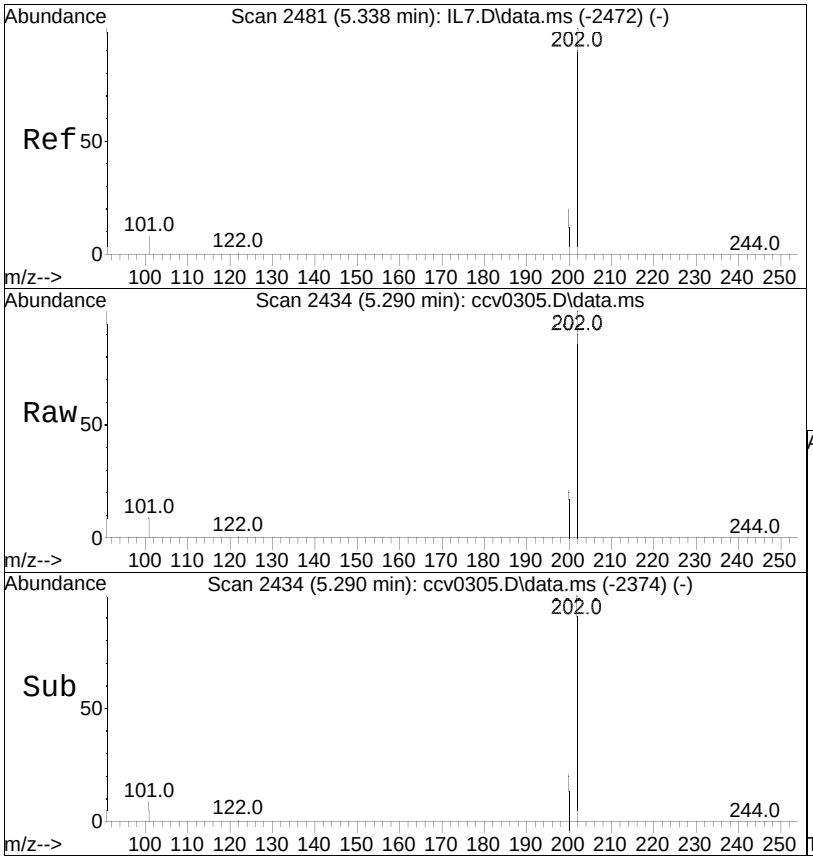


#27
Anthracene
Concen: 1026.10 ng/ml
RT: 4.643 min Scan# 2084
Delta R.T. 0.000 min
Lab File: ccv0305.D
Acq: 05 Mar 2024 06:33 am

Tgt Ion:178 Resp: 42524

Ion	Ratio	Lower	Upper
178	100		
179	15.3	12.2	18.4

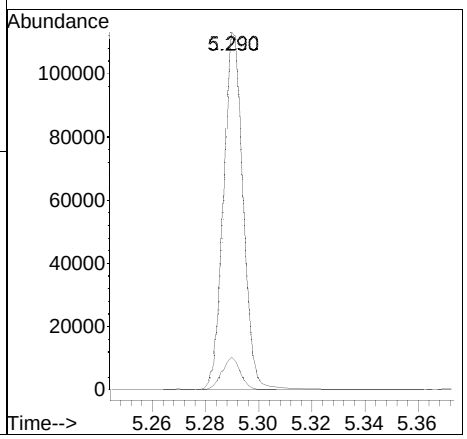


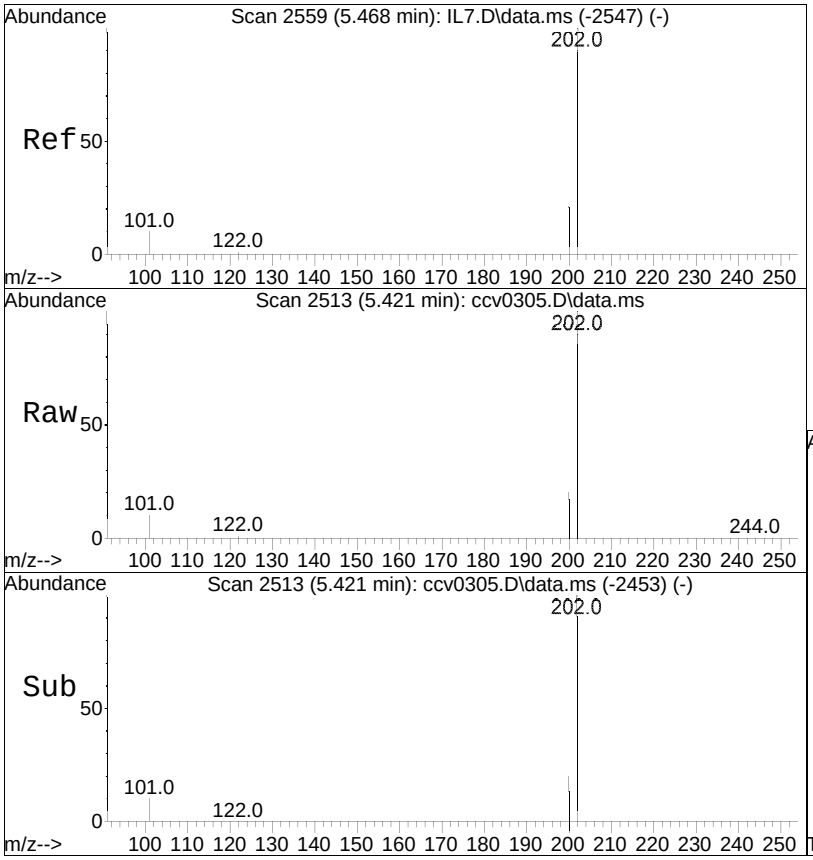


#28
Fluoranthene
Concen: 1039.28 ng/ml
RT: 5.290 min Scan# 2434
Delta R.T. 0.000 min
Lab File: ccv0305.D
Acq: 05 Mar 2024 06:33 am

Tgt Ion:202 Resp: 57242

Ion	Ratio	Lower	Upper
202	100		
101	8.7	8.3	12.5

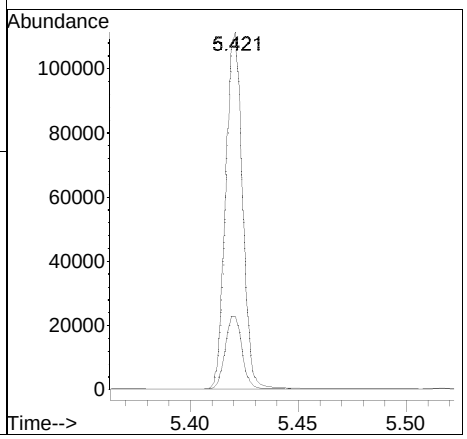


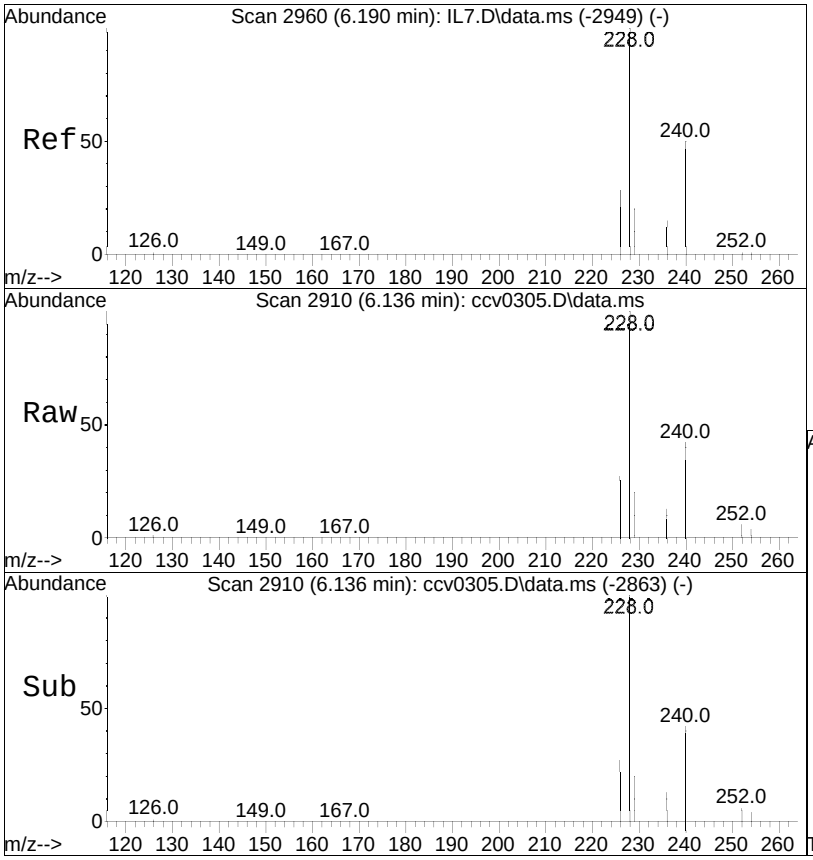


#29
Pyrene
Concen: 1045.47 ng/ml
RT: 5.421 min Scan# 2513
Delta R.T. 0.000 min
Lab File: ccv0305.D
Acq: 05 Mar 2024 06:33 am

Tgt Ion:202 Resp: 59158

Ion	Ratio	Lower	Upper
202	100		
200	20.8	17.3	25.9

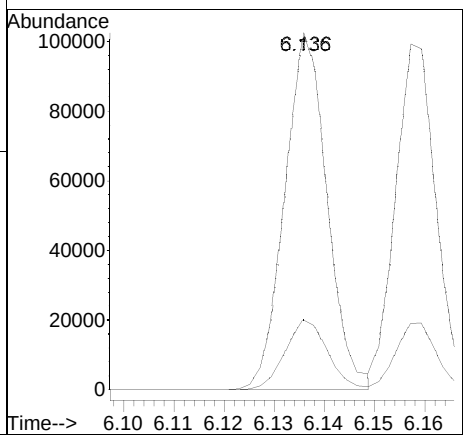


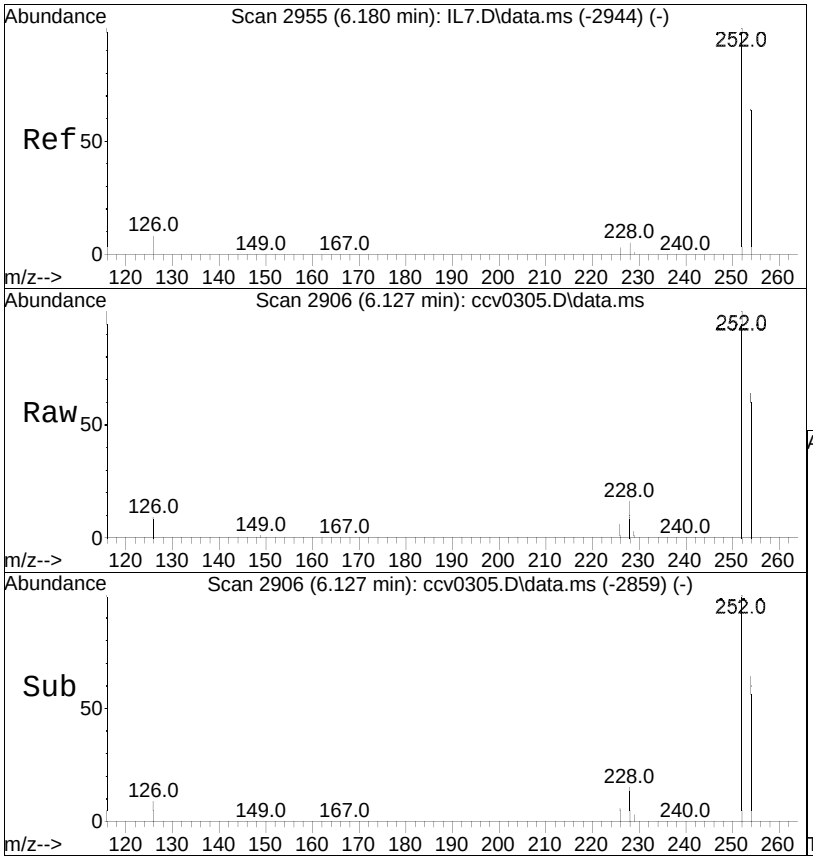


#32
Benzo[a]anthracene
Concen: 1124.00 ng/ml
RT: 6.136 min Scan# 2910
Delta R.T. 0.000 min
Lab File: ccv0305.D
Acq: 05 Mar 2024 06:33 am

Tgt Ion:228 Resp: 60001

Ion	Ratio	Lower	Upper
228	100		
229	19.6	15.6	23.4

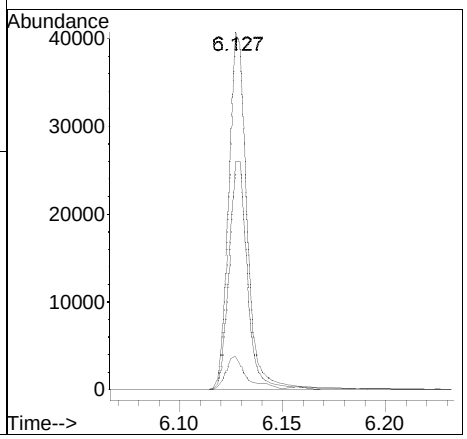


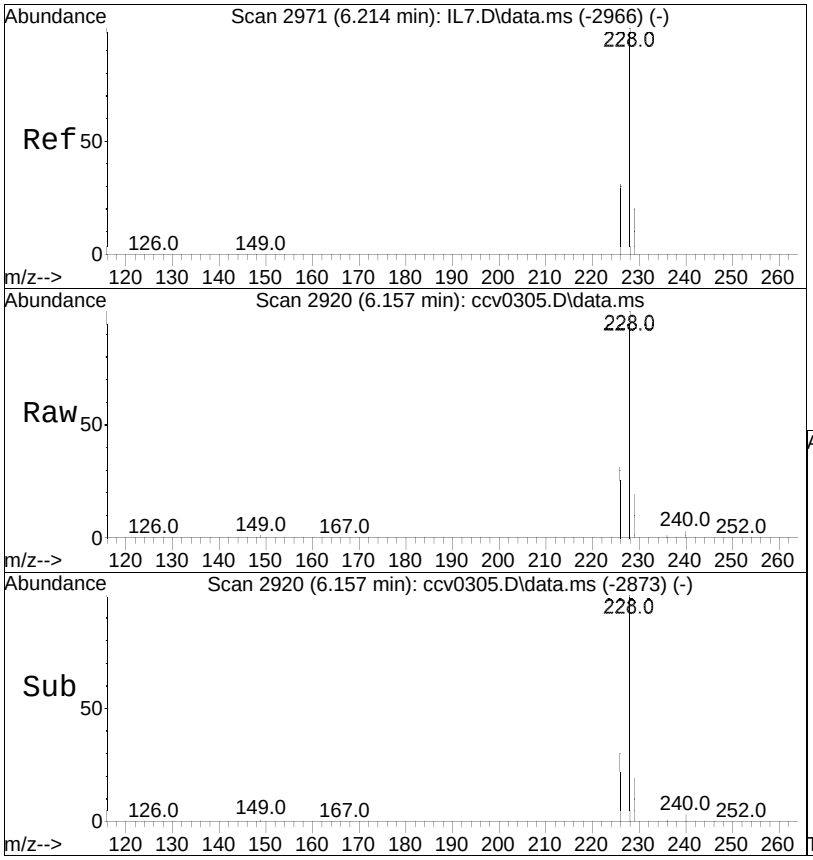


#33
3,3'-Dichlorobenzidine
Concen: 1023.25 ng/ml
RT: 6.127 min Scan# 2906
Delta R.T. 0.000 min
Lab File: ccv0305.D
Acq: 05 Mar 2024 06:33 am

Tgt Ion:252 Resp: 24634

Ion	Ratio	Lower	Upper
252	100		
126	10.6	7.7	11.5
254	64.7	52.0	78.0

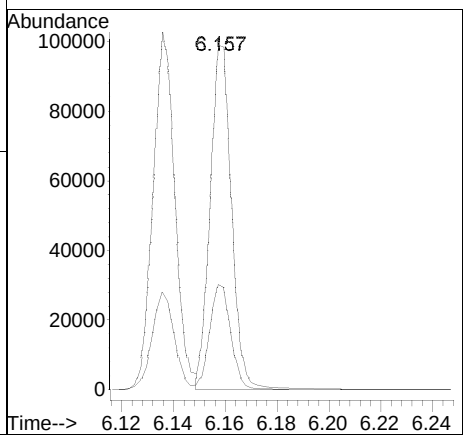


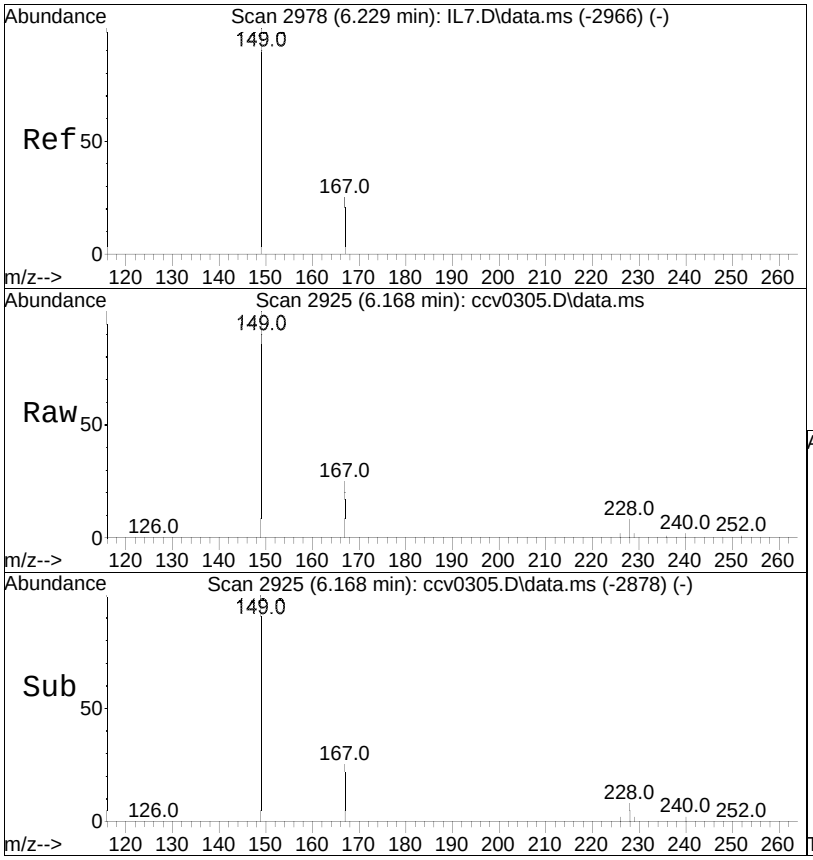


#34
Chrysene
Concen: 1070.50 ng/ml
RT: 6.157 min Scan# 2920
Delta R.T. 0.000 min
Lab File: ccv0305.D
Acq: 05 Mar 2024 06:33 am

Tgt Ion:228 Resp: 56299

Ion	Ratio	Lower	Upper
228	100		
226	30.8	24.5	36.7

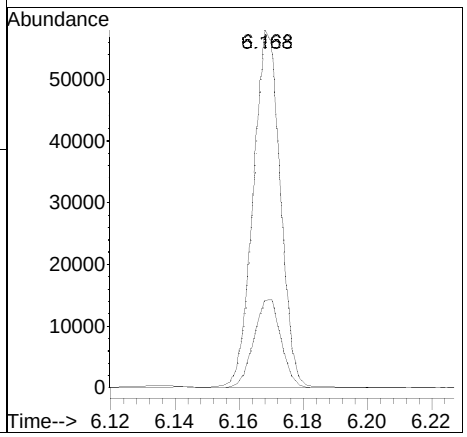


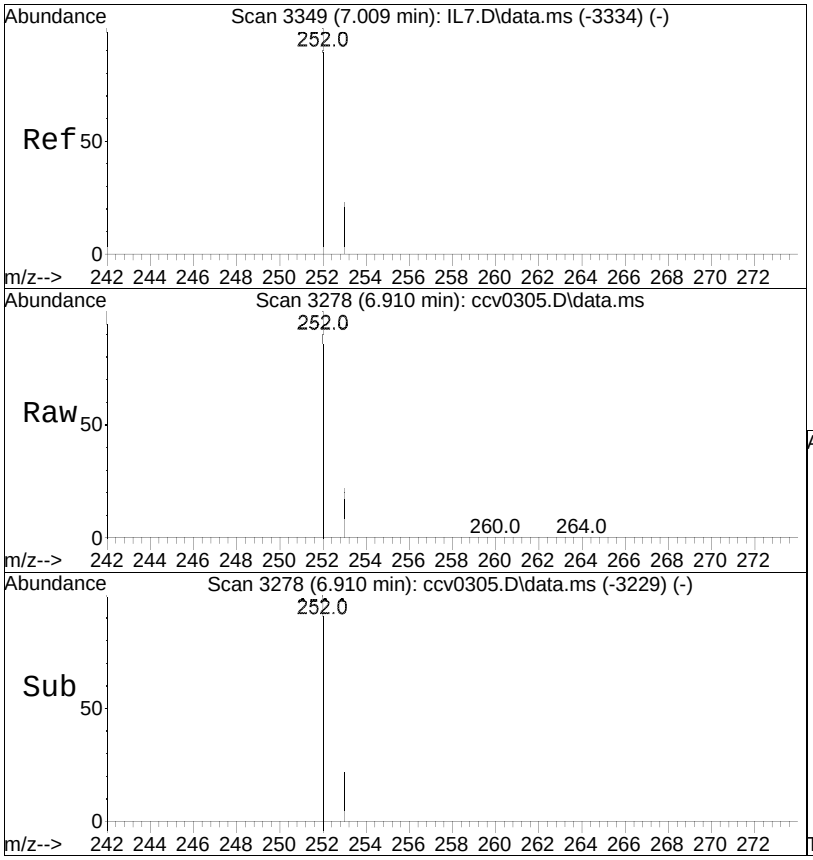


#35
Bis(2-ethylhexyl)phthalate
Concen: 957.26 ng/ml
RT: 6.168 min Scan# 2925
Delta R.T. 0.000 min
Lab File: ccv0305.D
Acq: 05 Mar 2024 06:33 am

Tgt Ion:149 Resp: 33363

Ion	Ratio	Lower	Upper
149	100		
167	24.7	18.5	27.7

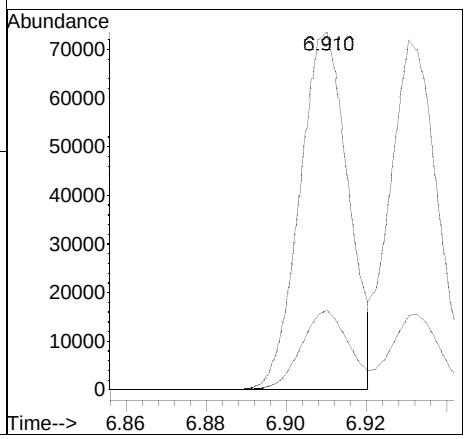


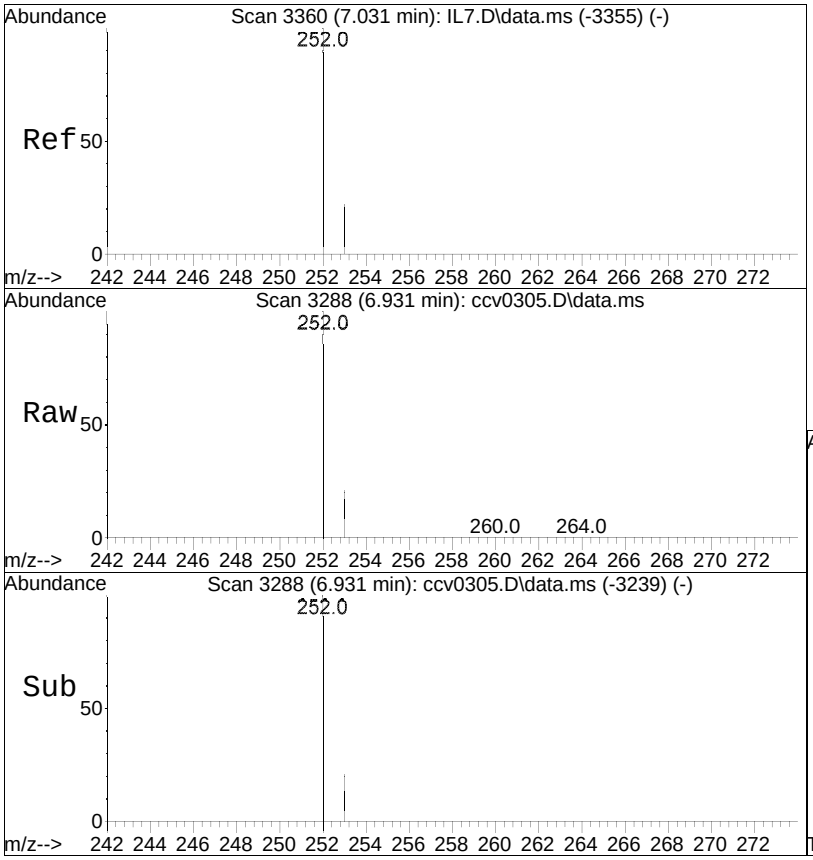


#37
Benzo[b]fluoranthene
Concen: 1063.30 ng/ml
RT: 6.910 min Scan# 3278
Delta R.T. 0.000 min
Lab File: ccv0305.D
Acq: 05 Mar 2024 06:33 am

Tgt Ion:252 Resp: 62020

Ion	Ratio	Lower	Upper
252	100		
253	21.6	17.3	25.9

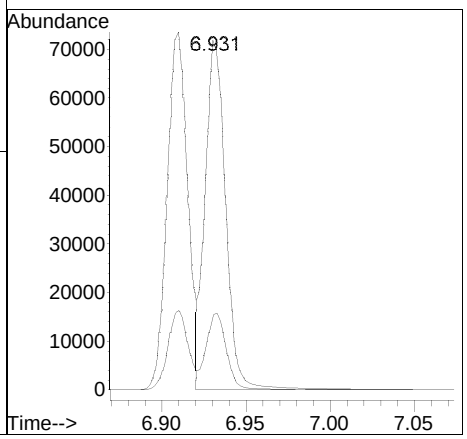


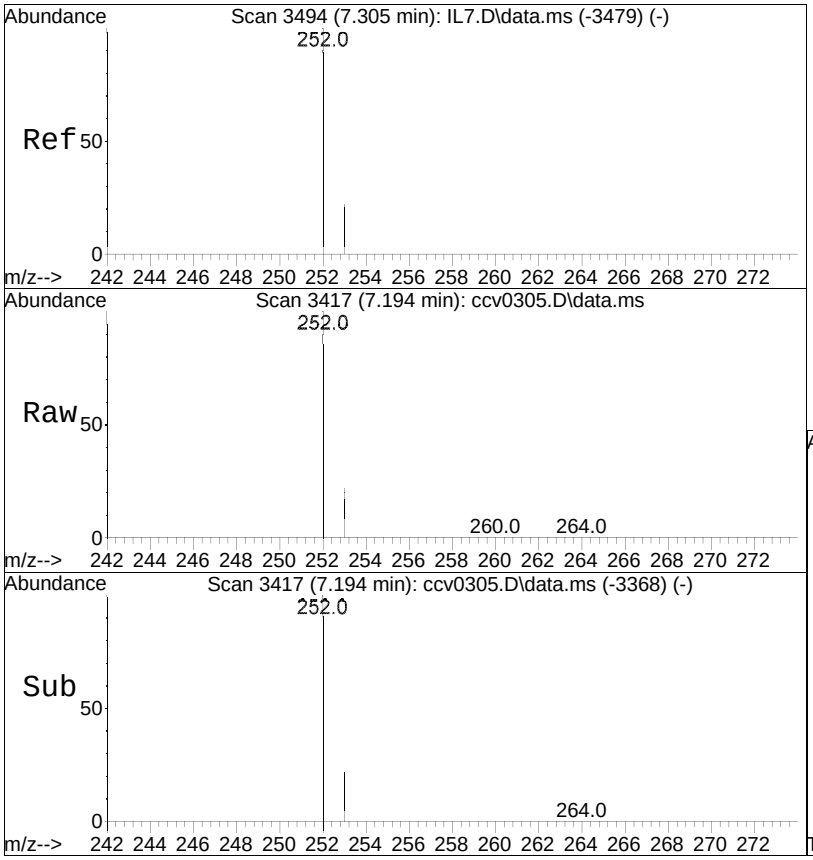


#38
Benzo[k]fluoranthene
Concen: 1088.94 ng/ml
RT: 6.931 min Scan# 3288
Delta R.T. 0.000 min
Lab File: ccv0305.D
Acq: 05 Mar 2024 06:33 am

Tgt Ion:252 Resp: 60312

Ion	Ratio	Lower	Upper
252	100		
253	21.7	17.4	26.2

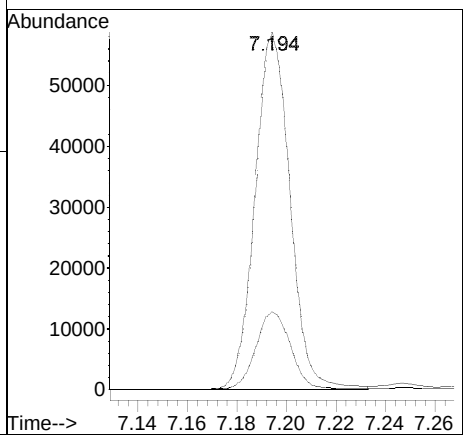


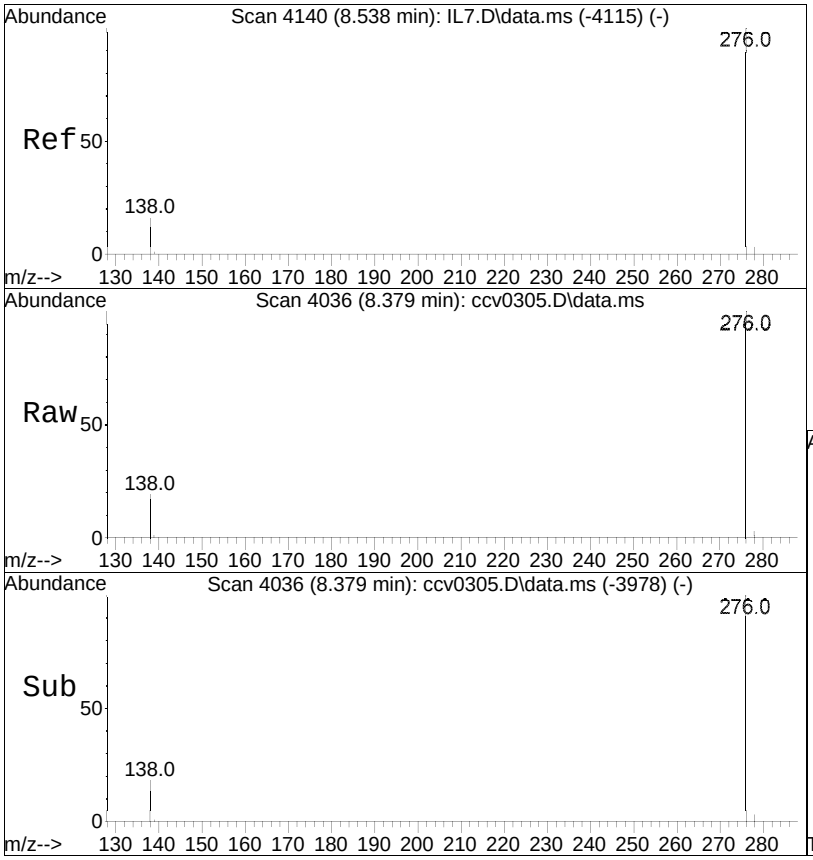


#39
Benzo[a]pyrene
Concen: 1108.60 ng/ml
RT: 7.194 min Scan# 3417
Delta R.T. 0.000 min
Lab File: ccv0305.D
Acq: 05 Mar 2024 06:33 am

Tgt Ion:252 Resp: 56917

Ion	Ratio	Lower	Upper
252	100		
253	21.7	17.4	26.0

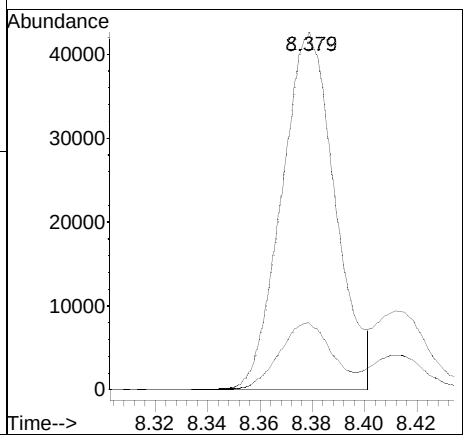


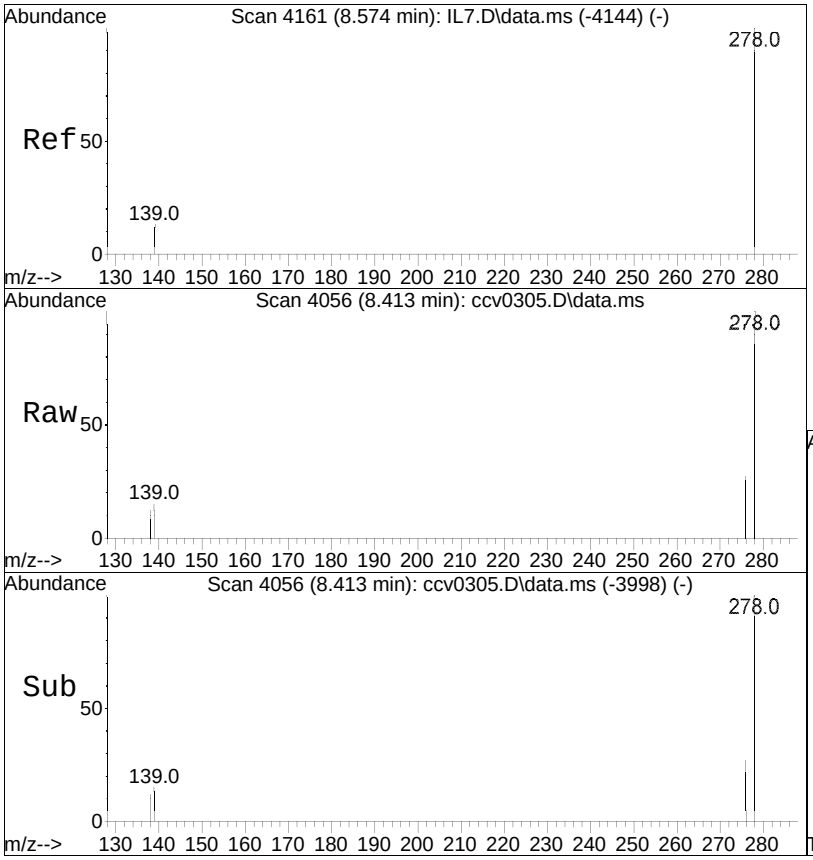


#40
Indeno[1,2,3-cd]pyrene
Concen: 1072.81 ng/ml
RT: 8.379 min Scan# 4036
Delta R.T. 0.000 min
Lab File: ccv0305.D
Acq: 05 Mar 2024 06:33 am

Tgt Ion:276 Resp: 59862

Ion	Ratio	Lower	Upper
276	100		
138	18.4	14.8	22.2

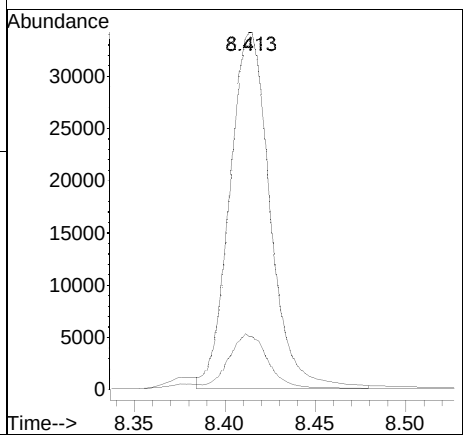


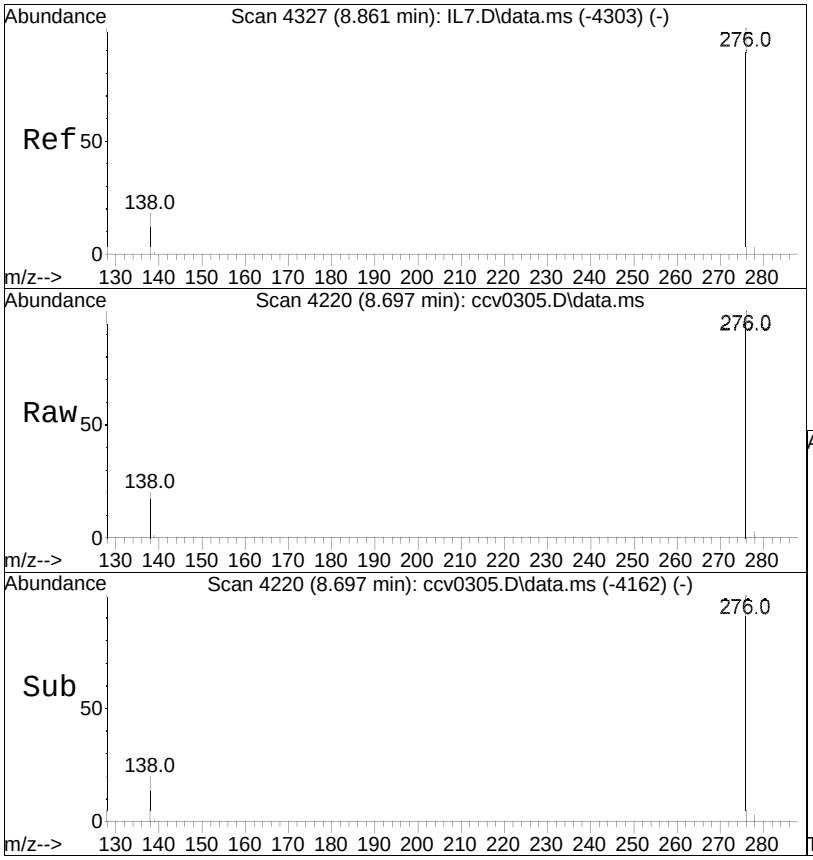


#41
Dibenzo[a,h]anthracene
Concen: 1017.87 ng/ml M6
RT: 8.413 min Scan# 4056
Delta R.T. 0.000 min
Lab File: ccv0305.D
Acq: 05 Mar 2024 06:33 am

Tgt Ion:278 Resp: 52843

Ion	Ratio	Lower	Upper
278	100		
139	15.0	12.2	18.4

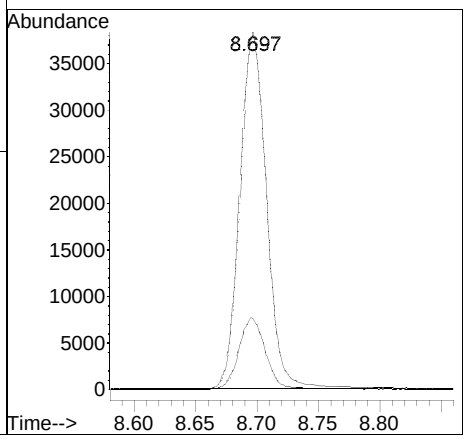




#42
Benzo[g,h,i]perylene
Concen: 1005.68 ng/ml
RT: 8.697 min Scan# 4220
Delta R.T. 0.000 min
Lab File: ccv0305.D
Acq: 05 Mar 2024 06:33 am

Tgt Ion:276 Resp: 57081

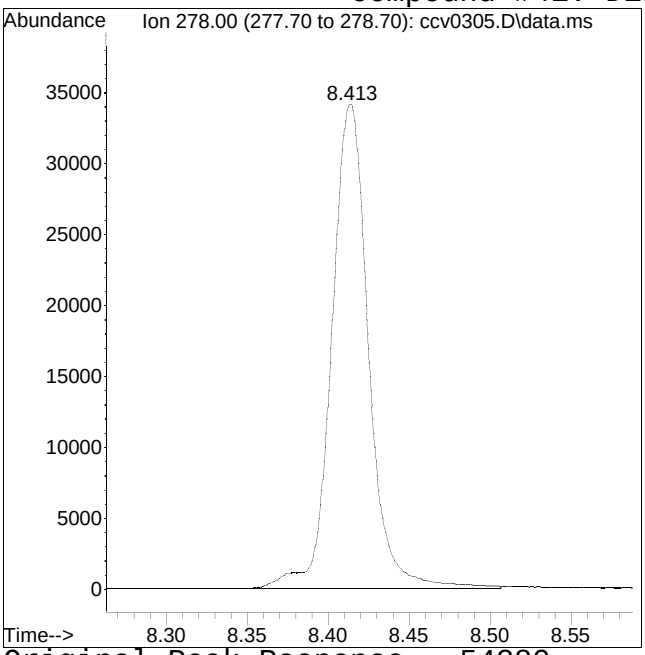
Ion	Ratio	Lower	Upper
276	100		
138	20.0	16.8	25.2



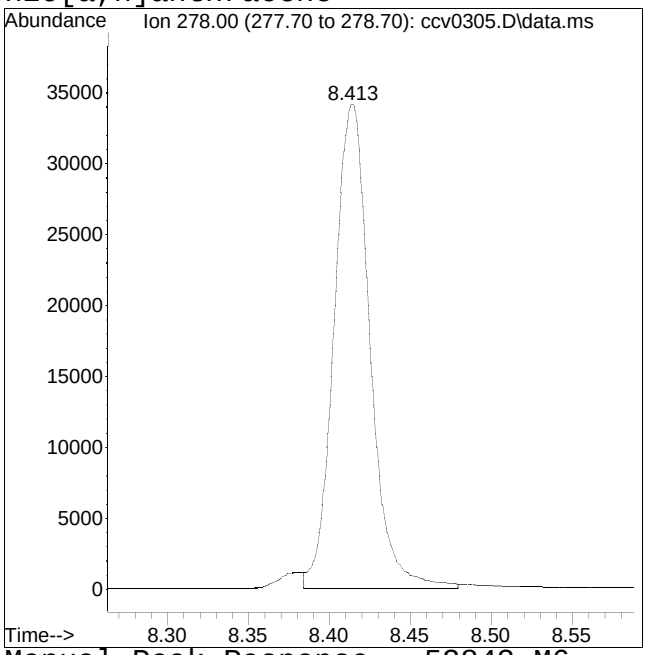
Manual Integration Report

Data Path : I:\8270SIM\sv119\240305LVIQ
Data File : ccv0305.D
Date Inj'd : 3/5/2024 6:33 am
Sample : WG1892203-3,32,, ICV 10475
Method : SIM-LVI_231207n_sv119.M
Operator : sv119:ah
Instrument : SV119
Quant Date : 3/5/2024 6:52 am

Compound #41: Dibenzo[a,h]anthracene



Original Peak Response = 54380



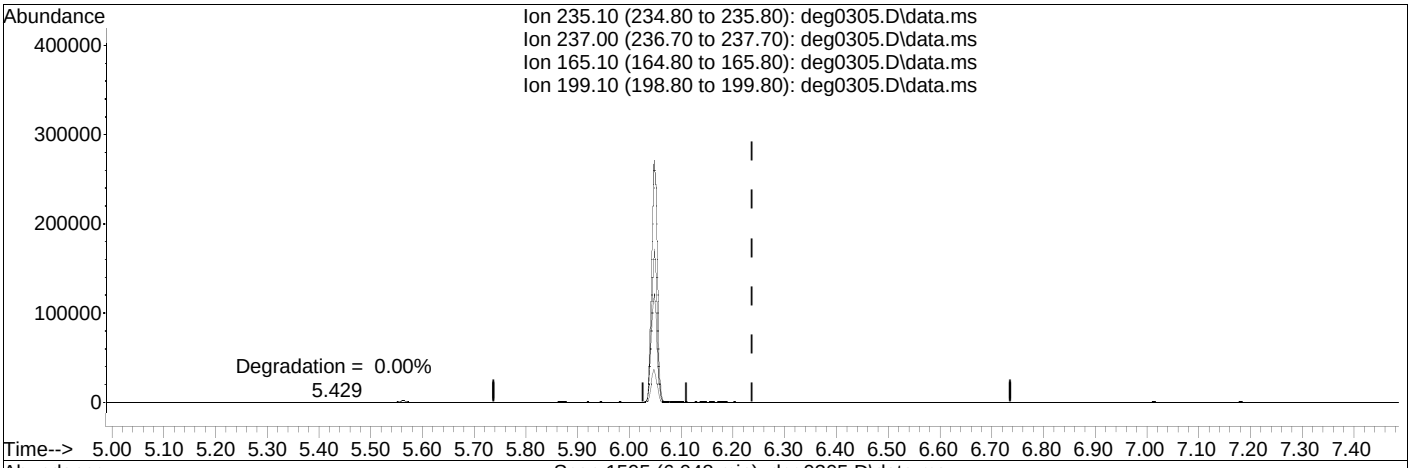
Manual Peak Response = 52843 M6

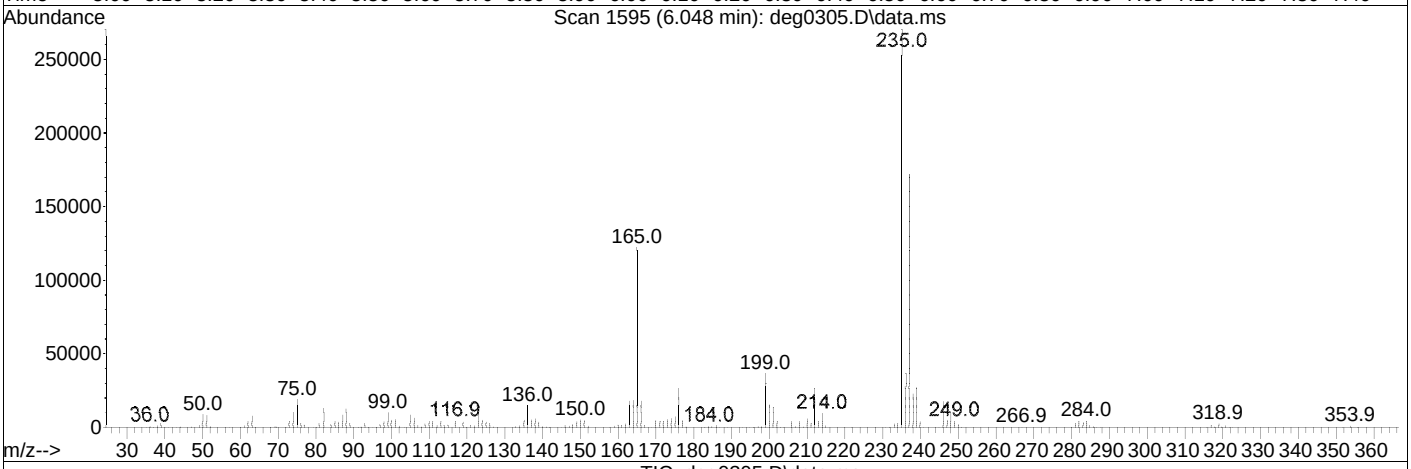
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (Qedit)

Data Path : I:\8270SIM\sv119\240305LVI\
Data File : deg0305.D
Acq On : 05 Mar 2024 06:14 am
Operator : sv119:ah
Sample : WG1892203-2,32,,dftppsv119
Misc : WG1892203,,ical20642
ALS Vial : 48 Sample Multiplier: 1

Quant Time: Mar 05 06:31:17 2024
Quant Method : I:\8270SIM\sv119\240305LVI\dftppsv119.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Feb 27 09:29:03 2024
Response via : Continuing Cal File: C:\ENVDEMO\BNADATA\DLWB002.D





TIC: deg0305.D\data.ms

(6) ddt (T)

6.048min (-0.189) 31.89

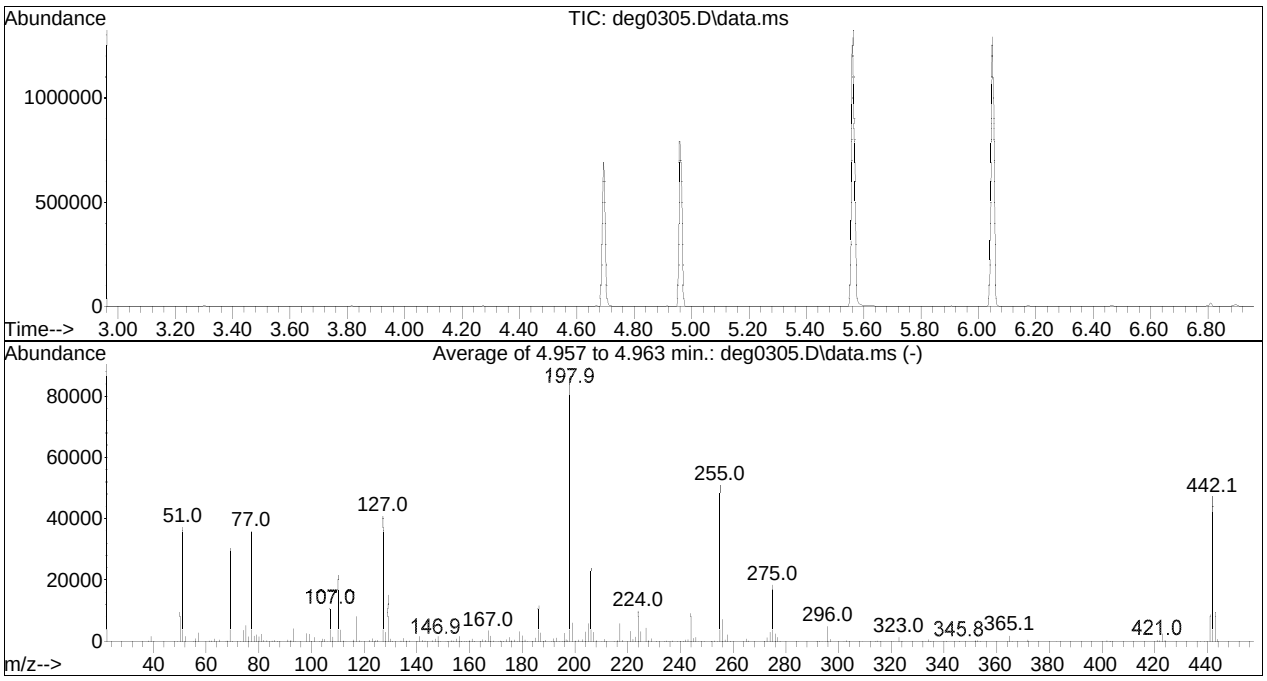
response 194411

Ion	Exp%	Act%
235.10	100.00	100.00
237.00	65.60	62.93
165.10	53.30	45.67
199.10	17.10	13.76

Data Path : I:\8270SIM\sv119\240305LVI\
Data File : deg0305.D
Acq On : 05 Mar 2024 06:14 am
Operator : sv119:ah
Sample : WG1892203-1,32,,dftppsv119
Misc : WG1892203,,ical20642
ALS Vial : 48 Sample Multiplier: 1

Integration File: rteint.p

Method : I:\8270SIM\sv119\240305LVI\SIM-LVI_231207n_sv119.M
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Tue Mar 05 06:52:34 2024



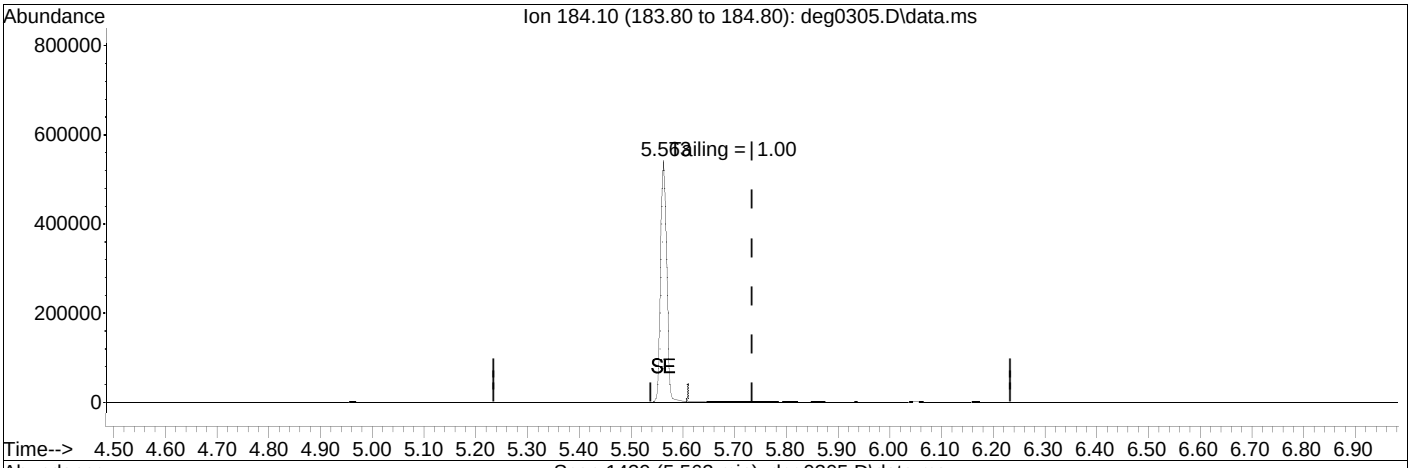
Spectrum Information: Average of 4.957 to 4.963 min.

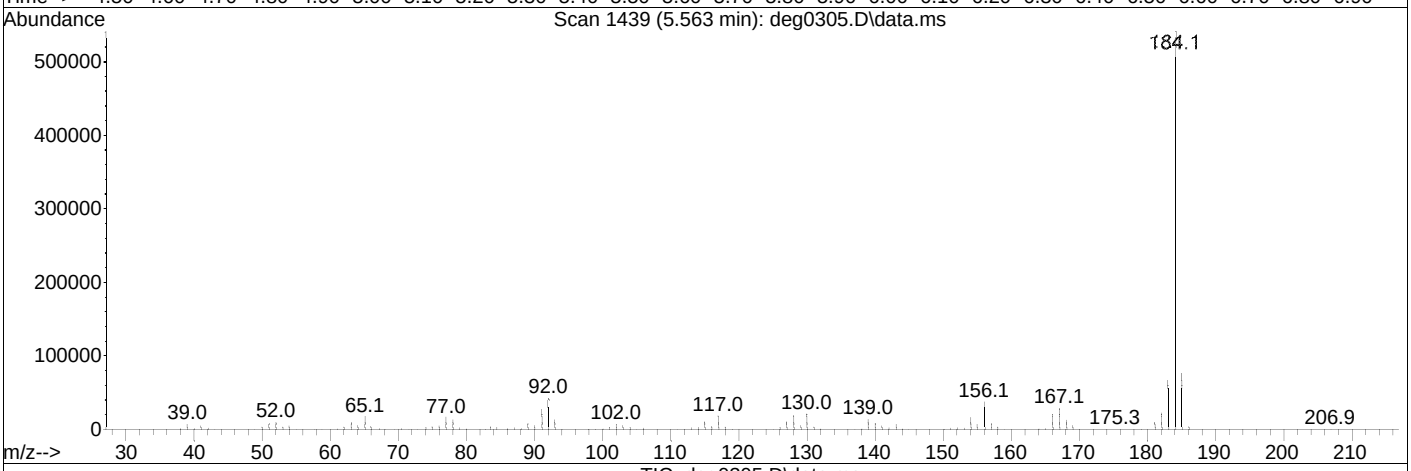
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	43.3	37257	PASS
68	69	0.00	2	1.4	417	PASS
69	69	100	100	100.0	30445	PASS
70	69	0.00	2	1.0	315	PASS
127	198	10	80	47.4	40800	PASS
197	198	0.00	2	0.6	550	PASS
198	198	100	100	100.0	86032	PASS
199	198	5	9	7.0	6031	PASS
275	198	10	60	21.4	18445	PASS
365	198	1	100	2.3	1937	PASS
441	442	0.01	24	18.4	8674	PASS
442	198	50	100	54.7	47059	PASS
443	442	15	24	20.2	9490	PASS

Quantitation Report (Qedit)

Data Path : I:\8270SIM\sv119\240305LVI\
Data File : deg0305.D
Acq On : 05 Mar 2024 06:14 am
Operator : sv119:ah
Sample : WG1892203-4,32,,dftppsv119
Misc : WG1892203,,ical20642
ALS Vial : 48 Sample Multiplier: 1

Quant Time: Mar 05 06:31:17 2024
Quant Method : I:\8270SIM\sv119\240305LVI\dftppsv119.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Feb 27 09:29:03 2024
Response via : Continuing Cal File: C:\ENVDEMO\BNADATA\DLWB002.D





TIC: deg0305.D\data.ms

(3) benzidine (T)

5.563min (-0.171) 40.26

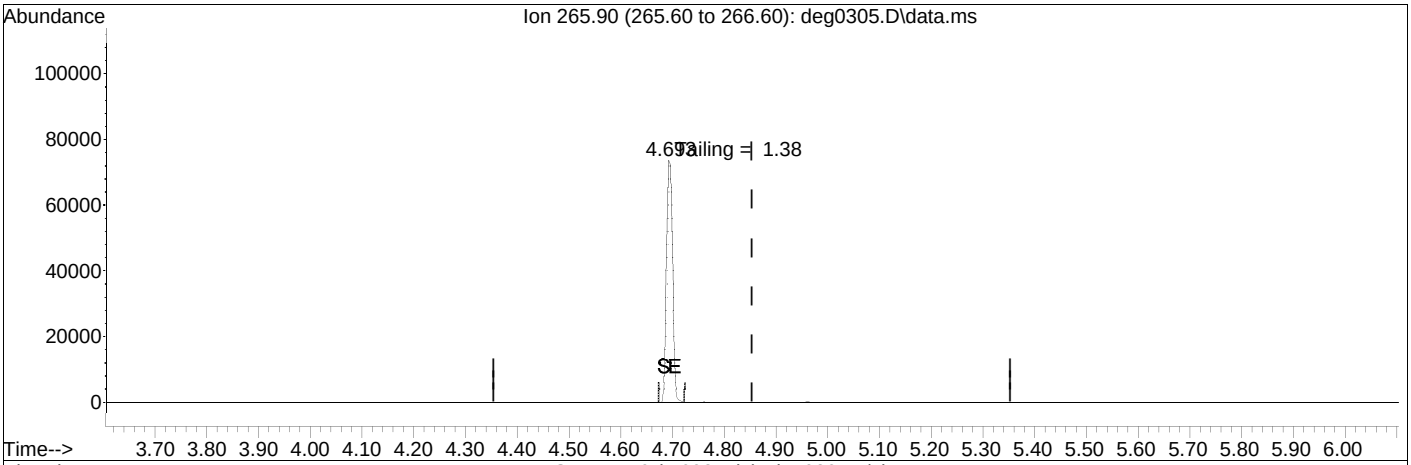
response 409842

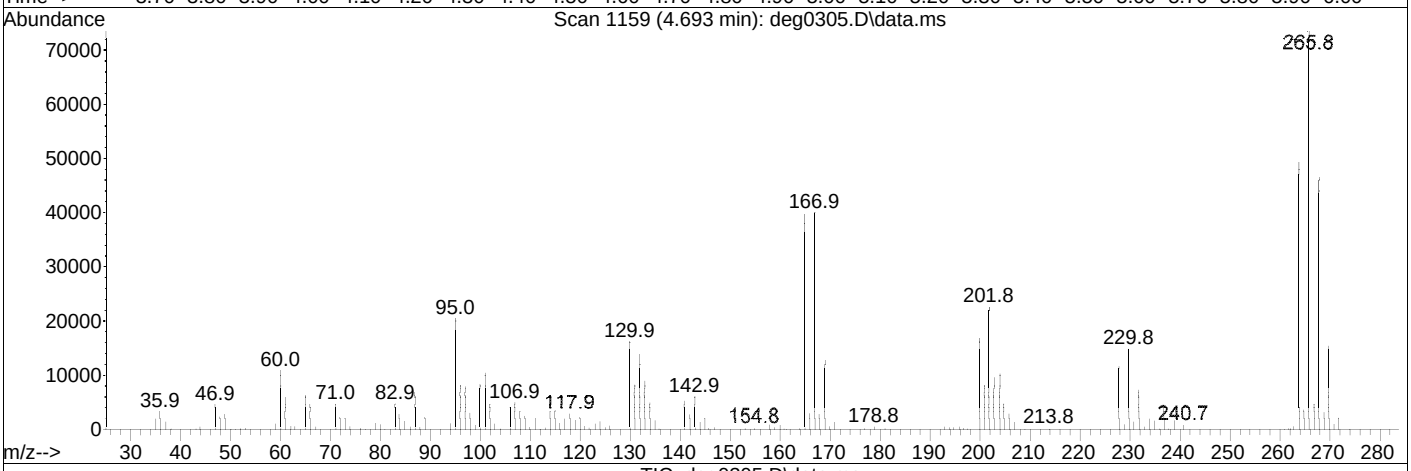
Ion	Exp%	Act%
184.10	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\8270SIM\sv119\240305LVI\
Data File : deg0305.D
Acq On : 05 Mar 2024 06:14 am
Operator : sv119:ah
Sample : WG1892203-5,32,,dftppsv119
Misc : WG1892203,,ical20642
ALS Vial : 48 Sample Multiplier: 1

Quant Time: Mar 05 06:31:17 2024
Quant Method : I:\8270SIM\sv119\240305LVI\dftppsv119.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Feb 27 09:29:03 2024
Response via : Continuing Cal File: C:\ENVDEMO\BNADATA\DLWB002.D





TIC: deg0305.D\data.ms

(1) pentachlorophenol (T)

4.693min (-0.161) 26.18

response 54982

Ion	Exp%	Act%
265.90	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Alpha Geoscience	**Lab Number**	: L2410579		
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116		
Instrument ID	: SV128	**Calibration Date**	: 03/03/24 07:58		
Lab File ID	: CCV0303	**Init. Calib. Date(s)**	: 12/11/23	12/13/23	
Sample No	: WG1891581-3	**Init. Calib. Times**	: 13:27	07:14	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,4-Dichlorobenzene-d4	1	1	.05	0	20	89	0
2-Fluorophenol	1.007	1.022	.05	-1.5	20	85	0
Phenol-d6	1.177	1.276	.05	-8.4	20	91	0
Bis(2-chloroethyl)ether	1.005	1.046	.05	-4.1	20	91	0
n-nitrosodi-n-propylamine	0.702	0.719	.05	-2.4	20	86	0
Hexachloroethane	0.478	0.472	.05	1.3	20	85	0
Nitrobenzene-d5	0.951	1.137	.05	-19.6	20	99	0
Naphthalene-d8	1	1	.05	0	20	89	0
Naphthalene	1.026	1.033	.05	-0.7	20	87	0
Hexachlorobutadiene	0.235	0.236	.05	-0.4	20	89	0
2-Methylnaphthalene	0.655	0.692	.05	-5.6	20	89	0
1-Methylnaphthalene	0.617	0.658	.05	-6.6	20	90	0
2-Fluorobiphenyl	0.848	0.932	.05	-9.9	20	91	0
2-Chloronaphthalene	0.713	0.761	.05	-6.7	20	89	0
2,6-Dinitrotoluene	1000	1328.905	.05	-32.9*	20	124	0
Acenaphthylene	1.057	1.163	.05	-10	20	90	0
Acenaphthene-d10	1	1	.05	0	20	94	0
Acenaphthene	1.352	1.345	.05	0.5	20	91	0
2,4-Dinitrotoluene	1000	1285.041	.05	-28.5*	20	131	0
Fluorene	1.365	1.452	.05	-6.4	20	94	0
2,4,6-Tribromophenol	0.2	0.243	.05	-21.5*	20	108	0
Phenanthrene-d10	1	1	.05	0	20	97	0
4,6-Dinitro-o-cresol	1000	1105.449	.05	-10.5	20	125	0
Hexachlorobenzene	0.266	0.248	.05	6.8	20	91	0
Pentachlorophenol	1000	962.628	.05	3.7	20	90	0
Phenanthrene	1.082	1.025	.05	5.3	20	91	0
Anthracene	1.045	1.077	.05	-3.1	20	98	0
Fluoranthene	1.188	1.256	.05	-5.7	20	97	0
Pyrene	1.23	1.34	.05	-8.9	20	97	0
4-Terphenyl-d14	0.833	0.923	.05	-10.8	20	99	0
Chrysene-d12	1	1	.05	0	20	98	0
Benzo[a]anthracene	1000	951.689	.05	4.8	20	95	0
3,3'-Dichlorobenzidine	1000	902.375	.05	9.8	20	97	0
Chrysene	1.379	1.369	.05	0.7	20	94	0
Bis(2-ethylhexyl)phthalate	1000	961.789	.05	3.8	20	110	0
Perylene-d12	1	1	.05	0	20	90	0
Benzo[b]fluoranthene	1.239	1.236	.05	0.2	20	89	0
Benzo[k]fluoranthene	1.153	1.204	.05	-4.4	20	92	0
Benzo[a]pyrene	1.091	1.121	.05	-2.7	20	89	0
Indeno[1,2,3-cd]pyrene	1.091	1.058	.05	3	20	84	0
Dibenzo[a,h]anthracene	1.059	1.087	.05	-2.6	20	84	0
Benzo[g,h,i]perylene	1.134	1.047	.05	7.7	20	77	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Alpha Geoscience	**Lab Number**	: L2410579		
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116		
Instrument ID	: SV119	**Calibration Date**	: 03/04/24 07:40		
Lab File ID	: CCV0304	**Init. Calib. Date(s)**	: 12/07/23	12/07/23	
Sample No	: WG1891805-3	**Init. Calib. Times**	: 13:10	15:42	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,4-Dichlorobenzene-d4	1	1	.05	0	20	88	0
2-Fluorophenol	1.094	1.209	.05	-10.5	20	90	0
Phenol-d6	1.311	1.384	.05	-5.6	20	91	0
Bis(2-chloroethyl)ether	1.115	1.153	.05	-3.4	20	90	0
n-nitrosodi-n-propylamine	0.667	0.678	.05	-1.6	20	86	0
Hexachloroethane	0.495	0.514	.05	-3.8	20	90	0
Nitrobenzene-d5	0.995	1.071	.05	-7.6	20	90	0
Naphthalene-d8	1	1	.05	0	20	86	0
Naphthalene	0.955	0.995	.05	-4.2	20	85	0
Hexachlorobutadiene	0.206	0.232	.05	-12.6	20	92	0
2-Methylnaphthalene	0.706	0.707	.05	-0.1	20	81	0
1-Methylnaphthalene	0.651	0.639	.05	1.8	20	81	0
2-Fluorobiphenyl	0.893	0.869	.05	2.7	20	80	0
2-Chloronaphthalene	0.752	0.739	.05	1.7	20	82	0
2,6-Dinitrotoluene	0.17	0.169	.05	0.6	20	83	0
Acenaphthylene	1.118	1.113	.05	0.4	20	80	0
Acenaphthene-d10	1	1	.05	0	20	84	0
Acenaphthene	1.237	1.258	.05	-1.7	20	80	0
2,4-Dinitrotoluene	0.369	0.394	.05	-6.8	20	82	0
Fluorene	1.478	1.492	.05	-0.9	20	79	0
2,4,6-Tribromophenol	0.221	0.227	.05	-2.7	20	79	0
Phenanthrene-d10	1	1	.05	0	20	81	0
4,6-Dinitro-o-cresol	1000	827.925	.05	17.2	20	71	0
Hexachlorobenzene	0.259	0.252	.05	2.7	20	75	0
Pentachlorophenol	1000	725.011	.05	27.5*	20	61	0
Phenanthrene	1.016	1.007	.05	0.9	20	76	0
Anthracene	1.008	1.025	.05	-1.7	20	78	0
Fluoranthene	1.339	1.287	.05	3.9	20	73	0
Pyrene	1.376	1.325	.05	3.7	20	74	0
4-Terphenyl-d14	0.981	0.761	.05	22.4*	20	61	0
Chrysene-d12	1	1	.05	0	20	69	0
Benzo[a]anthracene	1000	1090.528	.05	-9.1	20	68	0
3,3'-Dichlorobenzidine	0.604	0.572	.05	5.3	20	63	0
Chrysene	1.32	1.412	.05	-7	20	71	0
Bis(2-ethylhexyl)phthalate	1000	819.991	.05	18	20	67	0
Perylene-d12	1	1	.05	0	20	64	0
Benzo[b]fluoranthene	1.397	1.455	.05	-4.2	20	62	0
Benzo[k]fluoranthene	1.327	1.405	.05	-5.9	20	66	0
Benzo[a]pyrene	1.23	1.315	.05	-6.9	20	65	0
Indeno[1,2,3-cd]pyrene	1.337	1.342	.05	-0.4	20	61	0
Dibenzo[a,h]anthracene	1.244	1.185	.05	4.7	20	58	0
Benzo[g,h,i]perylene	1.36	1.328	.05	2.4	20	60	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Alpha Geoscience	**Lab Number**	: L2410579		
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116		
Instrument ID	: SV119	**Calibration Date**	: 03/05/24 06:33		
Lab File ID	: CCV0305	**Init. Calib. Date(s)**	: 12/07/23	12/07/23	
Sample No	: WG1892203-3	**Init. Calib. Times**	: 13:10	15:42	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,4-Dichlorobenzene-d4	1	1	.05	0	20	82	0
2-Fluorophenol	1.094	1.197	.05	-9.4	20	83	0
Phenol-d6	1.311	1.379	.05	-5.2	20	84	0
Bis(2-chloroethyl)ether	1.115	1.152	.05	-3.3	20	83	0
n-nitrosodi-n-propylamine	0.667	0.703	.05	-5.4	20	83	0
Hexachloroethane	0.495	0.52	.05	-5.1	20	84	0
Nitrobenzene-d5	0.995	1.089	.05	-9.4	20	84	0
Naphthalene-d8	1	1	.05	0	20	80	0
Naphthalene	0.955	0.991	.05	-3.8	20	80	0
Hexachlorobutadiene	0.206	0.237	.05	-15	20	88	0
2-Methylnaphthalene	0.706	0.72	.05	-2	20	77	0
1-Methylnaphthalene	0.651	0.644	.05	1.1	20	77	0
2-Fluorobiphenyl	0.893	0.901	.05	-0.9	20	77	0
2-Chloronaphthalene	0.752	0.756	.05	-0.5	20	79	0
2,6-Dinitrotoluene	0.17	0.186	.05	-9.4	20	86	0
Acenaphthylene	1.118	1.158	.05	-3.6	20	78	0
Acenaphthene-d10	1	1	.05	0	20	81	0
Acenaphthene	1.237	1.261	.05	-1.9	20	78	0
2,4-Dinitrotoluene	0.369	0.435	.05	-17.9	20	88	0
Fluorene	1.478	1.522	.05	-3	20	78	0
2,4,6-Tribromophenol	0.221	0.246	.05	-11.3	20	84	0
Phenanthrene-d10	1	1	.05	0	20	83	0
4,6-Dinitro-o-cresol	1000	986.317	.05	1.4	20	88	0
Hexachlorobenzene	0.259	0.255	.05	1.5	20	78	0
Pentachlorophenol	1000	777.078	.05	22.3*	20	67	0
Phenanthrene	1.016	1.022	.05	-0.6	20	79	0
Anthracene	1.008	1.034	.05	-2.6	20	80	0
Fluoranthene	1.339	1.392	.05	-4	20	80	0
Pyrene	1.376	1.438	.05	-4.5	20	82	0
4-Terphenyl-d14	0.981	0.853	.05	13	20	69	0
Chrysene-d12	1	1	.05	0	20	80	0
Benzo[a]anthracene	1000	1124.001	.05	-12.4	20	82	0
3,3'-Dichlorobenzidine	0.604	0.618	.05	-2.3	20	79	0
Chrysene	1.32	1.413	.05	-7	20	83	0
Bis(2-ethylhexyl)phthalate	1000	957.264	.05	4.3	20	92	0
Perylene-d12	1	1	.05	0	20	78	0
Benzo[b]fluoranthene	1.397	1.486	.05	-6.4	20	77	0
Benzo[k]fluoranthene	1.327	1.445	.05	-8.9	20	82	0
Benzo[a]pyrene	1.23	1.364	.05	-10.9	20	81	0
Indeno[1,2,3-cd]pyrene	1.337	1.434	.05	-7.3	20	78	0
Dibenzo[a,h]anthracene	1.244	1.266	.05	-1.8	20	75	0
Benzo[g,h,i]perylene	1.36	1.368	.05	-0.6	20	74	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Alpha Geoscience	**Lab Number**	: L2410579		
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116		
Instrument ID	: SV128	**Calibration Date**	: 03/05/24 06:57		
Lab File ID	: CCV0305A	**Init. Calib. Date(s)**	: 12/11/23	12/13/23	
Sample No	: WG1892213-3	**Init. Calib. Times**	: 13:27	07:14	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,4-Dichlorobenzene-d4	1	1	.05	0	20	52	0
2-Fluorophenol	1.007	0.966	.05	4.1	20	48	0
Phenol-d6	1.177	1.296	.05	-10.1	20	55	0
Bis(2-chloroethyl)ether	1.005	1.094	.05	-8.9	20	56	0
n-nitrosodi-n-propylamine	0.702	0.78	.05	-11.1	20	55	0
Hexachloroethane	0.478	0.463	.05	3.1	20	49	0
Nitrobenzene-d5	0.951	1.199	.05	-26.1*	20	62	0
Naphthalene-d8	1	1	.05	0	20	56	0
Naphthalene	1.026	1.033	.05	-0.7	20	55	0
Hexachlorobutadiene	0.235	0.227	.05	3.4	20	55	0
2-Methylnaphthalene	0.655	0.723	.05	-10.4	20	59	0
1-Methylnaphthalene	0.617	0.672	.05	-8.9	20	59	0
2-Fluorobiphenyl	0.848	0.989	.05	-16.6	20	62	0
2-Chloronaphthalene	0.713	0.828	.05	-16.1	20	62	0
2,6-Dinitrotoluene	1000	1588.617	.05	-58.9*	20	95	0
Acenaphthylene	1.057	1.261	.05	-19.3	20	62	0
Acenaphthene-d10	1	1	.05	0	20	67	0
Acenaphthene	1.352	1.332	.05	1.5	20	64	0
2,4-Dinitrotoluene	1000	1360.545	.05	-36.1*	20	98	0
Fluorene	1.365	1.51	.05	-10.6	20	69	0
2,4,6-Tribromophenol	0.2	0.257	.05	-28.5*	20	80	0
Phenanthrene-d10	1	1	.05	0	20	78	0
4,6-Dinitro-o-cresol	1000	1167.879	.05	-16.8	20	107	0
Hexachlorobenzene	0.266	0.244	.05	8.3	20	72	0
Pentachlorophenol	1000	1028.447	.05	-2.8	20	78	0
Phenanthrene	1.082	1.042	.05	3.7	20	75	0
Anthracene	1.045	1.03	.05	1.4	20	75	0
Fluoranthene	1.188	1.345	.05	-13.2	20	84	0
Pyrene	1.23	1.465	.05	-19.1	20	85	0
4-Terphenyl-d14	0.833	1.023	.05	-22.8*	20	89	0
Chrysene-d12	1	1	.05	0	20	96	0
Benzo[a]anthracene	1000	922.507	.05	7.7	20	90	0
3,3'-Dichlorobenzidine	1000	843.538	.05	15.6	20	88	0
Chrysene	1.379	1.37	.05	0.7	20	92	0
Bis(2-ethylhexyl)phthalate	1000	806.686	.05	19.3	20	89	0
Perylene-d12	1	1	.05	0	20	92	0
Benzo[b]fluoranthene	1.239	1.231	.05	0.6	20	90	0
Benzo[k]fluoranthene	1.153	1.184	.05	-2.7	20	92	0
Benzo[a]pyrene	1.091	1.092	.05	-0.1	20	89	0
Indeno[1,2,3-cd]pyrene	1.091	1.144	.05	-4.9	20	93	0
Dibenzo[a,h]anthracene	1.059	1.136	.05	-7.3	20	90	0
Benzo[g,h,i]perylene	1.134	1.127	.05	0.6	20	85	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Alpha Geoscience	**Lab Number**	: L2410579		
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116		
Instrument ID	: SV119	**Calibration Date**	: 03/05/24 21:16		
Lab File ID	: CCV0305N	**Init. Calib. Date(s)**	: 12/07/23	12/07/23	
Sample No	: WG1892573-3	**Init. Calib. Times**	: 13:10	15:42	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,4-Dichlorobenzene-d4	1	1	.05	0	20	87	0
2-Fluorophenol	1.094	1.149	.05	-5	20	85	0
Phenol-d6	1.311	1.357	.05	-3.5	20	88	0
Bis(2-chloroethyl)ether	1.115	1.12	.05	-0.4	20	87	0
n-nitrosodi-n-propylamine	0.667	0.708	.05	-6.1	20	89	0
Hexachloroethane	0.495	0.496	.05	-0.2	20	86	0
Nitrobenzene-d5	0.995	1.105	.05	-11.1	20	92	0
Naphthalene-d8	1	1	.05	0	20	88	0
Naphthalene	0.955	0.957	.05	-0.2	20	84	0
Hexachlorobutadiene	0.206	0.221	.05	-7.3	20	89	0
2-Methylnaphthalene	0.706	0.704	.05	0.3	20	82	0
1-Methylnaphthalene	0.651	0.629	.05	3.4	20	81	0
2-Fluorobiphenyl	0.893	0.868	.05	2.8	20	81	0
2-Chloronaphthalene	0.752	0.739	.05	1.7	20	84	0
2,6-Dinitrotoluene	0.17	0.19	.05	-11.8	20	95	0
Acenaphthylene	1.118	1.132	.05	-1.3	20	84	0
Acenaphthene-d10	1	1	.05	0	20	90	0
Acenaphthene	1.237	1.214	.05	1.9	20	84	0
2,4-Dinitrotoluene	0.369	0.441	.05	-19.5	20	99	0
Fluorene	1.478	1.492	.05	-0.9	20	85	0
2,4,6-Tribromophenol	0.221	0.244	.05	-10.4	20	92	0
Phenanthrene-d10	1	1	.05	0	20	95	0
4,6-Dinitro-o-cresol	1000	1010.711	.05	-1.1	20	104	0
Hexachlorobenzene	0.259	0.244	.05	5.8	20	86	0
Pentachlorophenol	1000	826.978	.05	17.3	20	82	0
Phenanthrene	1.016	0.982	.05	3.3	20	88	0
Anthracene	1.008	0.978	.05	3	20	87	0
Fluoranthene	1.339	1.333	.05	0.4	20	89	0
Pyrene	1.376	1.368	.05	0.6	20	91	0
4-Terphenyl-d14	0.981	0.806	.05	17.8	20	76	0
Chrysene-d12	1	1	.05	0	20	91	0
Benzo[a]anthracene	1000	1066.469	.05	-6.6	20	87	0
3,3'-Dichlorobenzidine	0.604	0.602	.05	0.3	20	87	0
Chrysene	1.32	1.345	.05	-1.9	20	89	0
Bis(2-ethylhexyl)phthalate	1000	913.333	.05	8.7	20	99	0
Perylene-d12	1	1	.05	0	20	85	0
Benzo[b]fluoranthene	1.397	1.45	.05	-3.8	20	82	0
Benzo[k]fluoranthene	1.327	1.368	.05	-3.1	20	84	0
Benzo[a]pyrene	1.23	1.304	.05	-6	20	85	0
Indeno[1,2,3-cd]pyrene	1.337	1.374	.05	-2.8	20	82	0
Dibenzo[a,h]anthracene	1.244	1.198	.05	3.7	20	77	0
Benzo[g,h,i]perylene	1.36	1.301	.05	4.3	20	77	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Alpha Geoscience	**Lab Number**	: L2410579		
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116		
Instrument ID	: SV119	**Calibration Date**	: 03/06/24 06:56		
Lab File ID	: CCV0306	**Init. Calib. Date(s)**	: 12/07/23	12/07/23	
Sample No	: WG1892736-3	**Init. Calib. Times**	: 13:10	15:42	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,4-Dichlorobenzene-d4	1	1	.05	0	20	105	0
2-Fluorophenol	1.094	1.188	.05	-8.6	20	105	0
Phenol-d6	1.311	1.43	.05	-9.1	20	112	0
Bis(2-chloroethyl)ether	1.115	1.206	.05	-8.2	20	112	0
n-nitrosodi-n-propylamine	0.667	0.772	.05	-15.7	20	116	0
Hexachloroethane	0.495	0.53	.05	-7.1	20	110	0
Nitrobenzene-d5	0.995	1.187	.05	-19.3	20	118	0
Naphthalene-d8	1	1	.05	0	20	107	0
Naphthalene	0.955	0.997	.05	-4.4	20	107	0
Hexachlorobutadiene	0.206	0.233	.05	-13.1	20	115	0
2-Methylnaphthalene	0.706	0.743	.05	-5.2	20	106	0
1-Methylnaphthalene	0.651	0.662	.05	-1.7	20	105	0
2-Fluorobiphenyl	0.893	0.927	.05	-3.8	20	106	0
2-Chloronaphthalene	0.752	0.777	.05	-3.3	20	107	0
2,6-Dinitrotoluene	0.17	0.208	.05	-22.4*	20	128	0
Acenaphthylene	1.118	1.217	.05	-8.9	20	110	0
Acenaphthene-d10	1	1	.05	0	20	110	0
Acenaphthene	1.237	1.278	.05	-3.3	20	107	0
2,4-Dinitrotoluene	0.369	0.477	.05	-29.3*	20	130	0
Fluorene	1.478	1.582	.05	-7	20	110	0
2,4,6-Tribromophenol	0.221	0.262	.05	-18.6	20	120	0
Phenanthrene-d10	1	1	.05	0	20	113	0
4,6-Dinitro-o-cresol	1000	1092.793	.05	-9.3	20	134	0
Hexachlorobenzene	0.259	0.261	.05	-0.8	20	108	0
Pentachlorophenol	1000	934.627	.05	6.5	20	110	0
Phenanthrene	1.016	1.023	.05	-0.7	20	108	0
Anthracene	1.008	1.04	.05	-3.2	20	110	0
Fluoranthene	1.339	1.377	.05	-2.8	20	109	0
Pyrene	1.376	1.401	.05	-1.8	20	110	0
4-Terphenyl-d14	0.981	0.829	.05	15.5	20	92	0
Chrysene-d12	1	1	.05	0	20	100	0
Benzo[a]anthracene	1000	1144.104	.05	-14.4	20	104	0
3,3'-Dichlorobenzidine	0.604	0.645	.05	-6.8	20	103	0
Chrysene	1.32	1.412	.05	-7	20	104	0
Bis(2-ethylhexyl)phthalate	1000	1011.732	.05	-1.2	20	122	0
Perylene-d12	1	1	.05	0	20	89	0
Benzo[b]fluoranthene	1.397	1.604	.05	-14.8	20	95	0
Benzo[k]fluoranthene	1.327	1.435	.05	-8.1	20	93	0
Benzo[a]pyrene	1.23	1.405	.05	-14.2	20	96	0
Indeno[1,2,3-cd]pyrene	1.337	1.455	.05	-8.8	20	91	0
Dibenzo[a,h]anthracene	1.244	1.243	.05	0.1	20	85	0
Benzo[g,h,i]perylene	1.36	1.337	.05	1.7	20	84	0

*** Value outside of QC limits.**

Evaluate Continuing Calibration Report

Data Path : I:\8270SIM\SV128\240305\
Data File : ccv0305a.D
Acq On : 05 Mar 2024 06:57 am
Operator : SV128:jjw
Sample : WG1892213-3,32,,ICV 10475 (0303)
Misc : WG1892213,,ical20676
ALS Vial : 49 Sample Multiplier: 1

Quant Time: Mar 05 07:15:33 2024
Quant Method : I:\8270SIM\SV128\240305\SIM-LVI_231211_sv128.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Mar 05 07:15:57 2024
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	i	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	52	0.00
2	s	2-Fluorophenol	1.007	0.966	4.1	48#	0.00
3	s	Phenol-d6	1.177	1.296	-10.1	55	0.00
4	T	Bis(2-chloroethyl)ether	1.005	1.094	-8.9	56	0.00
5	T	n-nitrosodi-n-propylamine	0.702	0.780	-11.1	55	0.00
6	t	Hexachloroethane	0.478	0.463	3.1	49#	0.00
7	s	Nitrobenzene-d5	0.951	1.199	-26.1#	62	0.00
8	i	Naphthalene-d8	1.000	1.000	0.0	56	0.00
9	t	Naphthalene	1.026	1.033	-0.7	55	0.00
10	t	Hexachlorobutadiene	0.235	0.227	3.4	55	0.00
11	t	2-Methylnaphthalene	0.655	0.723	-10.4	59	0.00
12	t	1-Methylnaphthalene	0.617	0.672	-8.9	59	0.00
13	s	2-Fluorobiphenyl	0.848	0.989	-16.6	62	0.00
14	t	2-Chloronaphthalene	0.713	0.828	-16.1	62	0.00
15	t	2,6-Dinitrotoluene	*1000.000	1588.617	-58.9#	95	0.00
16	t	Acenaphthylene	1.057	1.261	-19.3	62	0.00
17	i	Acenaphthene-d10	1.000	1.000	0.0	67	0.00
18	t	Acenaphthene	1.352	1.332	1.5	64	0.00
19	t	2,4-Dinitrotoluene	*1000.000	1360.545	-36.1#	98	0.00
20	t	Fluorene	1.365	1.510	-10.6	69	0.00
21	s	2,4,6-Tribromophenol	0.200	0.257	-28.5#	80	0.00
22	i	Phenanthrene-d10	1.000	1.000	0.0	78	0.00
23	T	4,6-Dinitro-o-cresol	*1000.000	1167.879	-16.8	107	0.00
24	t	Hexachlorobenzene	0.266	0.244	8.3	72	0.00
25	t	Pentachlorophenol	*1000.000	1028.447	-2.8	78	0.00
26	t	Phenanthrene	1.082	1.042	3.7	75	0.00
27	t	Anthracene	1.045	1.030	1.4	75	0.00
28	t	Fluoranthene	1.188	1.345	-13.2	84	0.00
29	t	Pyrene	1.230	1.465	-19.1	85	0.00
30	s	4-Terphenyl-d14	0.833	1.023	-22.8#	89	0.00
31	i	Chrysene-d12	1.000	1.000	0.0	96	0.00
32	t	Benzo[a]anthracene	*1000.000	922.507	7.7	90	0.00
33	t	3,3'-Dichlorobenzidine	*1000.000	843.538	15.6	88	0.00
34	t	Chrysene	1.379	1.370	0.7	92	0.00
35	T	Bis(2-ethylhexyl)phthalate	*1000.000	806.686	19.3	89	0.00

Evaluate Continuing Calibration Report

Data Path : I:\8270SIM\SV128\240305\
Data File : ccv0305a.D
Acq On : 05 Mar 2024 06:57 am
Operator : SV128:jjw
Sample : WG1892213-3,32,,ICV 10475 (0303)
Misc : WG1892213,,ical20676
ALS Vial : 49 Sample Multiplier: 1

Quant Time: Mar 05 07:15:33 2024
Quant Method : I:\8270SIM\SV128\240305\SIM-LVI_231211_sv128.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Mar 05 07:15:57 2024
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
36	i	Perylene-d12	1.000	1.000	0.0	92	0.00
37	t	Benzo[b]fluoranthene	1.239	1.231	0.6	90	0.00
38	t	Benzo[k]fluoranthene	1.153	1.184	-2.7	92	0.00
39	t	Benzo[a]pyrene	1.091	1.092	-0.1	89	0.00
40	t	Indeno[1,2,3-cd]pyrene	1.091	1.144	-4.9	93	0.00
41	t	Dibenzo[a,h]anthracene	1.059	1.136	-7.3	90	0.00
42	t	Benzo[g,h,i]perylene	1.134	1.127	0.6	85	0.00

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV128\240305\
Data File : ccv0305a.D
Acq On : 05 Mar 2024 06:57 am
Operator : SV128:jjw
Sample : WG1892213-3,32,,ICV 10475 (0303)
Misc : WG1892213,,ical20676
ALS Vial : 49 Sample Multiplier: 1

Quant Time: Mar 05 07:15:33 2024
Quant Method : I:\8270SIM\SV128\240305\SIM-LVI_231211_sv128.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Mar 05 07:15:57 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.266	152	1565	4000.000	ng/ml	0.00
8) Naphthalene-d8	2.945	136	5966	4000.000	ng/ml	0.00
17) Acenaphthene-d10	3.943	164	4044	4000.000	ng/ml	0.00
22) Phenanthrene-d10	4.802	188	10610	4000.000	ng/ml	0.00
31) Chrysene-d12	6.397	240	12274	4000.000	ng/ml	0.00
36) Perylene-d12	7.703	264	14188	4000.000	ng/ml	0.00
System Monitoring Compounds						
2) 2-Fluorophenol	1.651	112	378	959.165	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 19.18%			
3) Phenol-d6	2.077	99	507	1100.810	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 22.02%			
7) Nitrobenzene-d5	2.554	82	469	1260.053	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 50.40%			
13) 2-Fluorobiphenyl	3.555	172	1475	1165.809	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 46.63%			
21) 2,4,6-Tribromophenol	4.398	330	260	1286.587	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 25.73%			
30) 4-Terphenyl-d14	5.738	244	2713	1227.354	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 49.09%			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	2.126	93	428	1088.065	ng/ml	88
5) n-nitrosodi-n-propylamine	2.471	70	305	1110.707	ng/ml#	85
6) Hexachloroethane	2.532	117	181	968.407	ng/ml	91
9) Naphthalene	2.957	128	1540	1006.579	ng/ml#	100
10) Hexachlorobutadiene	3.030	225	339	967.300	ng/ml	99
11) 2-Methylnaphthalene	3.345	142	1078	1102.983	ng/ml	100
12) 1-Methylnaphthalene	3.403	142	1003	1089.751	ng/ml	100
14) 2-Chloronaphthalene	3.622	162	1235	1160.717	ng/ml	98
15) 2,6-Dinitrotoluene	3.821	165	305	1588.617	ng/ml	98
16) Acenaphthylene	3.861	152	1881	1193.406	ng/ml	99
18) Acenaphthene	3.962	153	1347	985.341	ng/ml	93
19) 2,4-Dinitrotoluene	4.056	165	413M6	1360.545	ng/ml	
20) Fluorene	4.258	166	1527	1106.785	ng/ml	99
23) 4,6-Dinitro-o-cresol	4.289	198	245	1167.879	ng/ml	96
24) Hexachlorobenzene	4.583	284	646	915.007	ng/ml	97
25) Pentachlorophenol	4.698	266	303	1028.447	ng/ml	100
26) Phenanthrene	4.814	178	2764	963.381	ng/ml	100
27) Anthracene	4.843	178	2733	985.840	ng/ml	100

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV128\240305\
Data File : ccv0305a.D
Acq On : 05 Mar 2024 06:57 am
Operator : SV128:jjw
Sample : WG1892213-3,32,,ICV 10475 (0303)
Misc : WG1892213,,ical20676
ALS Vial : 49 Sample Multiplier: 1

Quant Time: Mar 05 07:15:33 2024
Quant Method : I:\8270SIM\SV128\240305\SIM-LVI_231211_sv128.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Mar 05 07:15:57 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
28) Fluoranthene	5.511	202	3568	1131.942	ng/ml	99
29) Pyrene	5.642	202	3886	1191.557	ng/ml	98
32) Benzo[a]anthracene	6.388	228	4088	922.507	ng/ml	100
33) 3,3'-Dichlorobenzidine	6.378	252	1454	843.538	ng/ml	96
34) Chrysene	6.416	228	4203	993.270	ng/ml	98
35) Bis(2-ethylhexyl)phtha...	6.424	149	1717M6	806.686	ng/ml	
37) Benzo[b]fluoranthene	7.304	252	4365M6	993.457	ng/ml	
38) Benzo[k]fluoranthene	7.329	252	4198	1026.708	ng/ml	96
39) Benzo[a]pyrene	7.637	252	3874M6	1001.272	ng/ml	
40) Indeno[1,2,3-cd]pyrene	9.021	276	4057	1048.650	ng/ml	98
41) Dibenzo[a,h]anthracene	9.059	278	4028M6	1071.986	ng/ml	
42) Benzo[g,h,i]perylene	9.378	276	3996	993.714	ng/ml	97

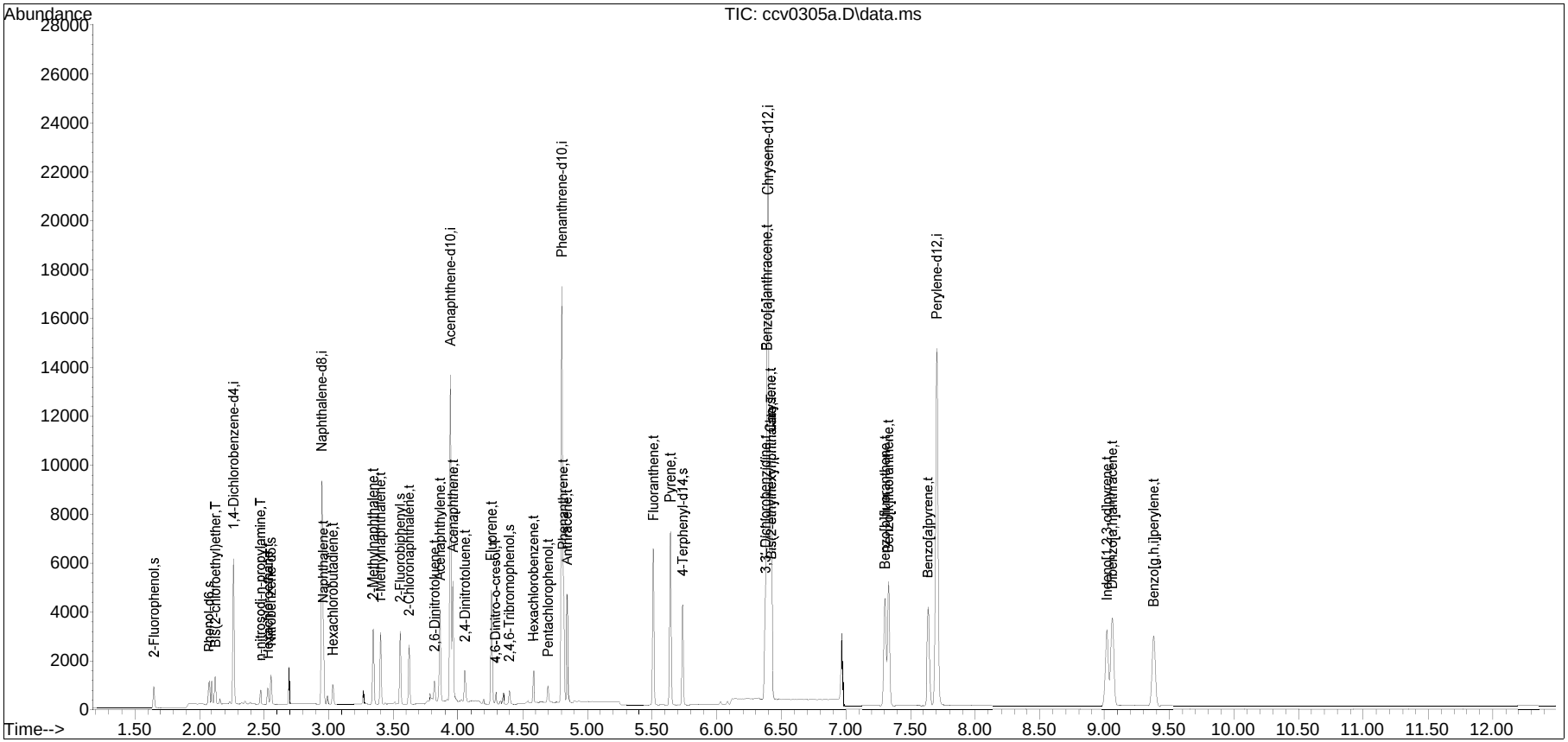
(#) = qualifier out of range (m) = manual integration (+) = signals summed

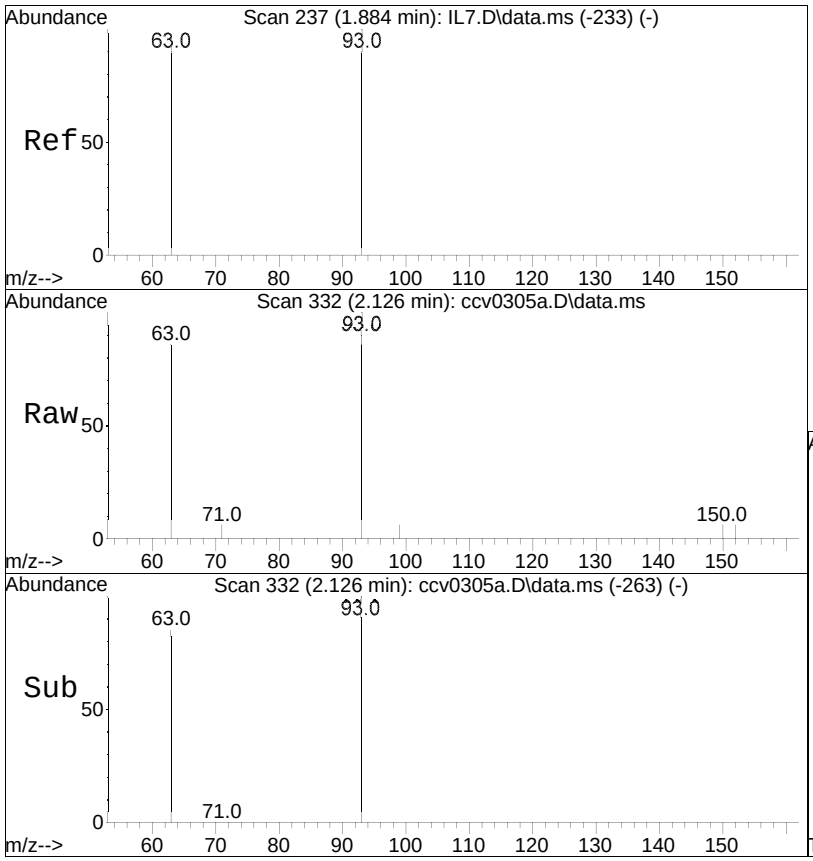
Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV128\240305\
Data File : ccv0305a.D
Acq On : 05 Mar 2024 06:57 am
Operator : SV128:jjw
Sample : WG1892213-3,32,,ICV 10475 (0303)
Misc : WG1892213,,ical20676
ALS Vial : 49 Sample Multiplier: 1

Quant Time: Mar 05 07:15:33 2024
Quant Method : I:\8270SIM\SV128\240305\SIM-LVI_231211_sv128.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Mar 05 07:15:57 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

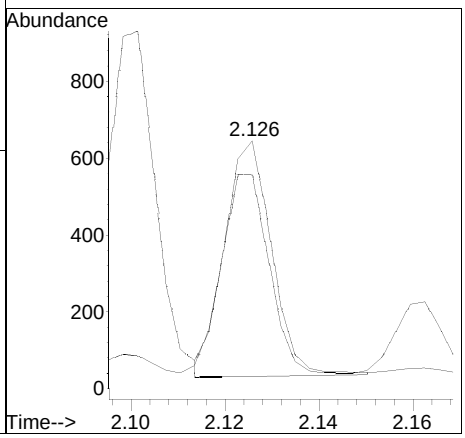


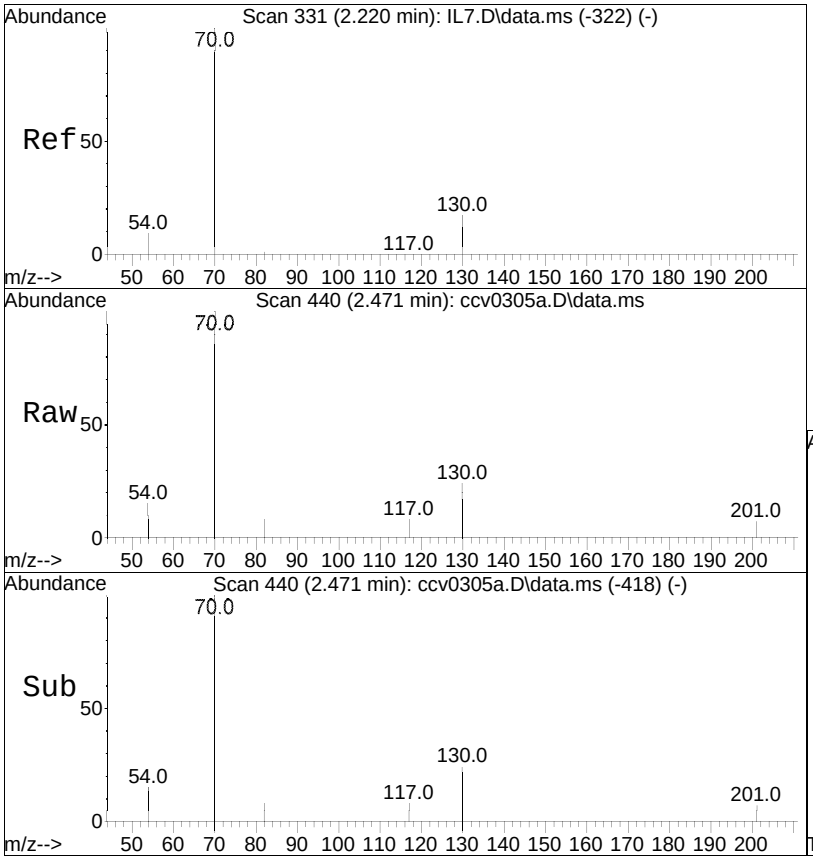


#4
Bis(2-chloroethyl)ether
Concen: 1088.06 ng/ml
RT: 2.126 min Scan# 332
Delta R.T. 0.000 min
Lab File: ccv0305a.D
Acq: 05 Mar 2024 06:57 am

Tgt Ion: 93 Resp: 428

Ion	Ratio	Lower	Upper
93	100		
63	84.8	77.3	115.9

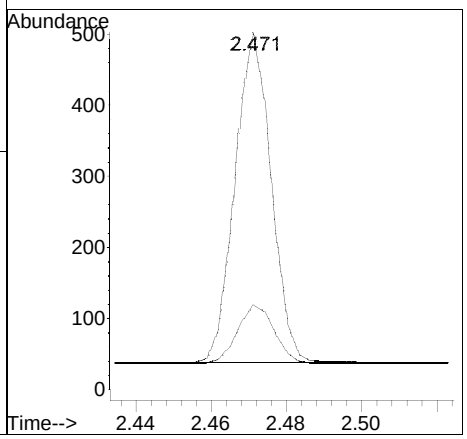


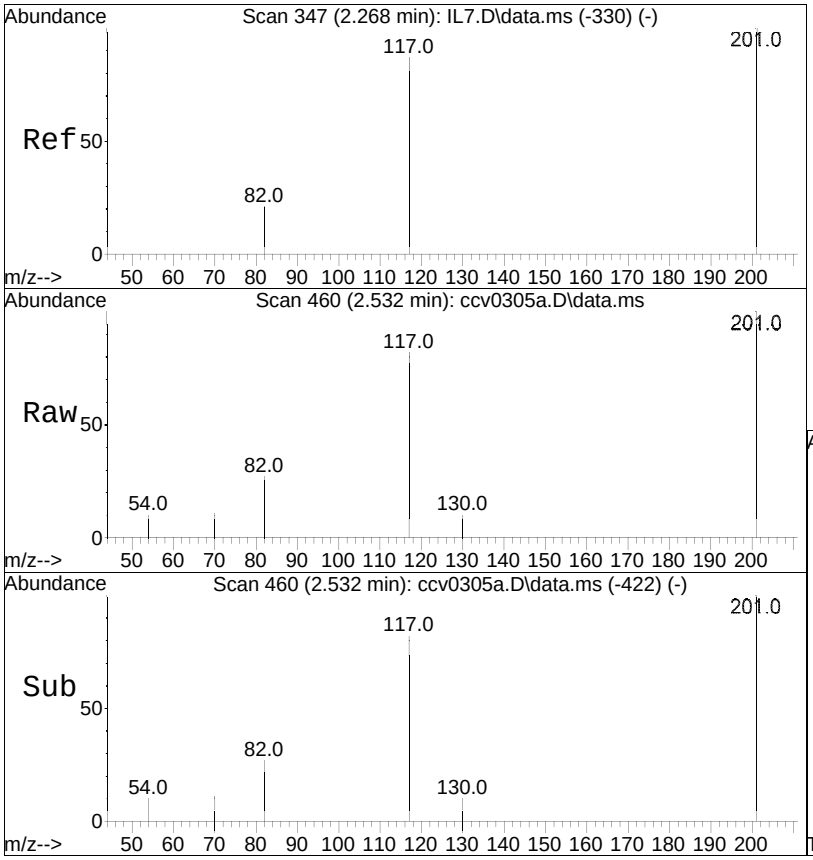


#5
n-nitrosodi-n-propylamine
Concen: 1110.71 ng/ml
RT: 2.471 min Scan# 440
Delta R.T. 0.000 min
Lab File: ccv0305a.D
Acq: 05 Mar 2024 06:57 am

Tgt Ion: 70 Resp: 305

Ion	Ratio	Lower	Upper
70	100		
130	23.6	13.6	20.4#

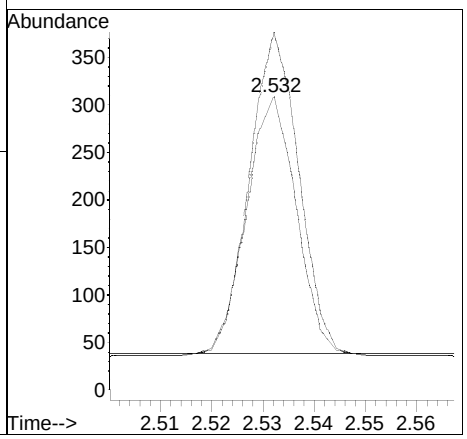


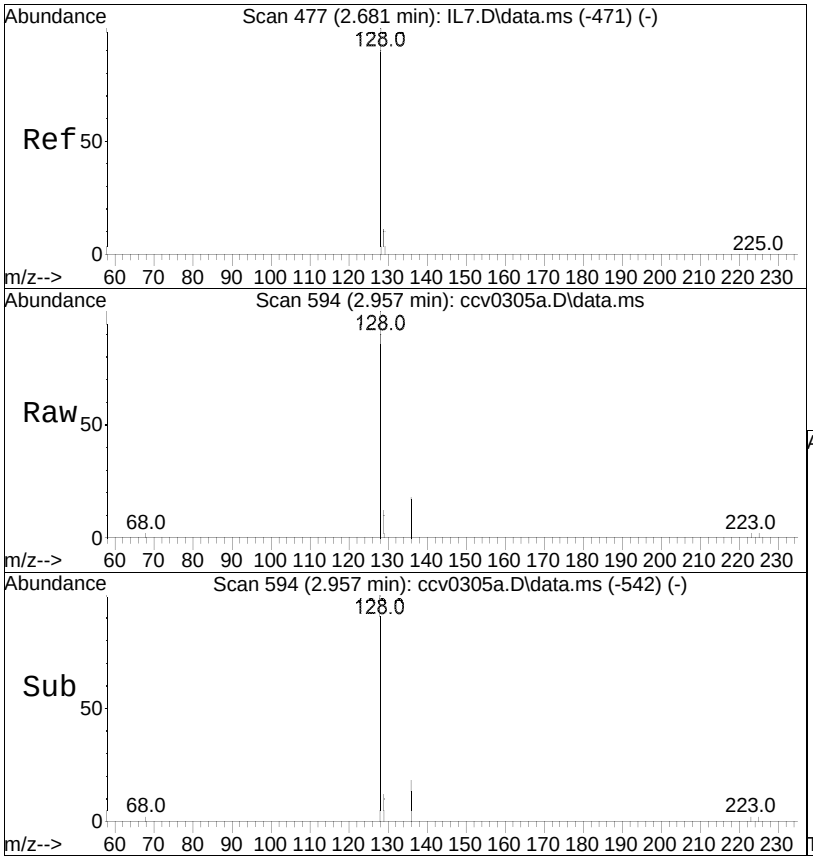


#6
Hexachloroethane
Concen: 968.41 ng/ml
RT: 2.532 min Scan# 460
Delta R.T. 0.000 min
Lab File: ccv0305a.D
Acq: 05 Mar 2024 06:57 am

Tgt Ion:117 Resp: 181

Ion	Ratio	Lower	Upper
117	100		
201	124.9	91.8	137.6

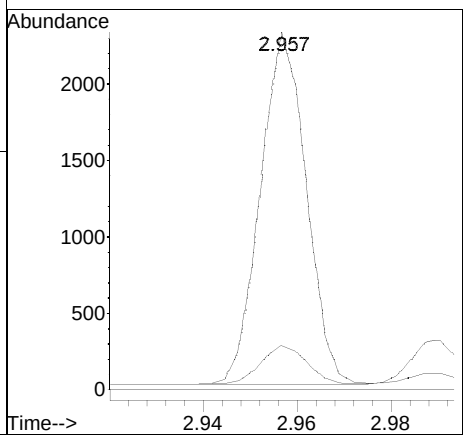


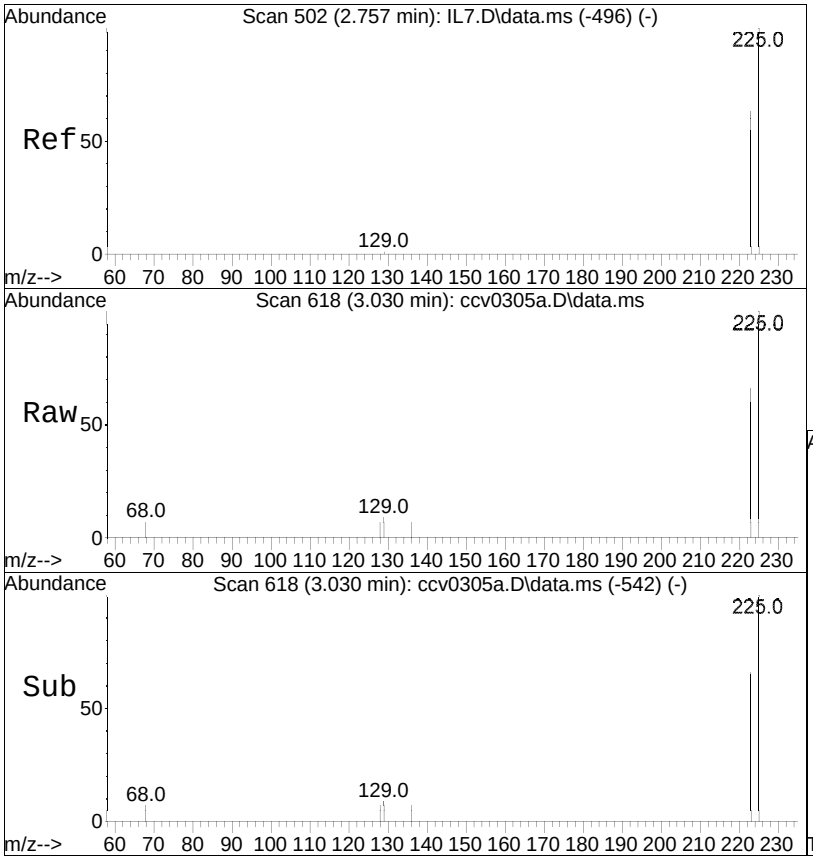


#9
Naphthalene
Concen: 1006.58 ng/ml
RT: 2.957 min Scan# 594
Delta R.T. 0.000 min
Lab File: ccv0305a.D
Acq: 05 Mar 2024 06:57 am

Tgt Ion:128 Resp: 1540

Ion	Ratio	Lower	Upper
128	100		
129	11.0	8.8	13.2
127	0.0	0.0	0.0

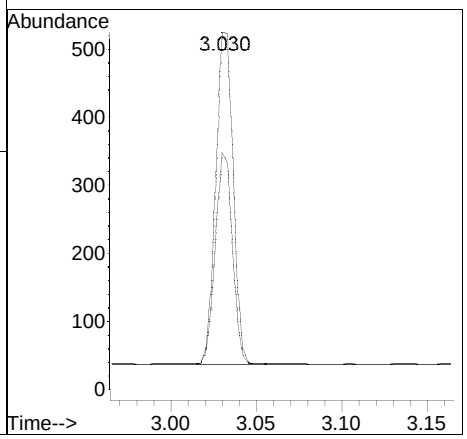


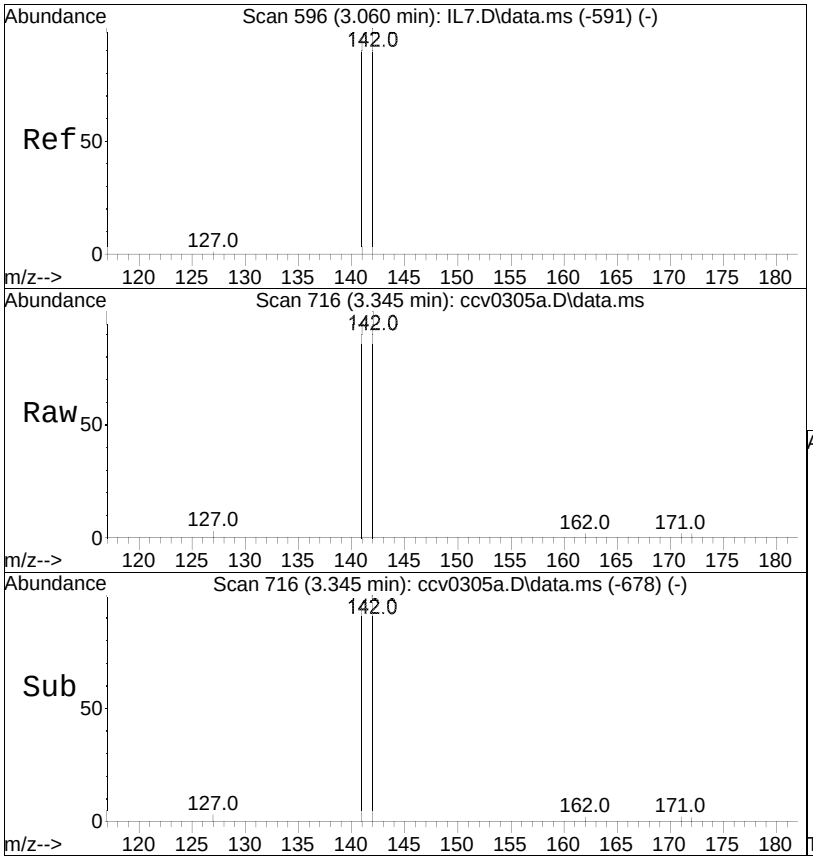


#10
Hexachlorobutadiene
Concen: 967.30 ng/ml
RT: 3.030 min Scan# 618
Delta R.T. 0.000 min
Lab File: ccv0305a.D
Acq: 05 Mar 2024 06:57 am

Tgt Ion:225 Resp: 339

Ion	Ratio	Lower	Upper
225	100		
223	61.9	49.9	74.9

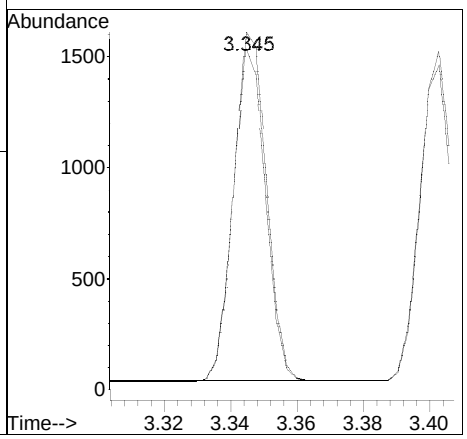


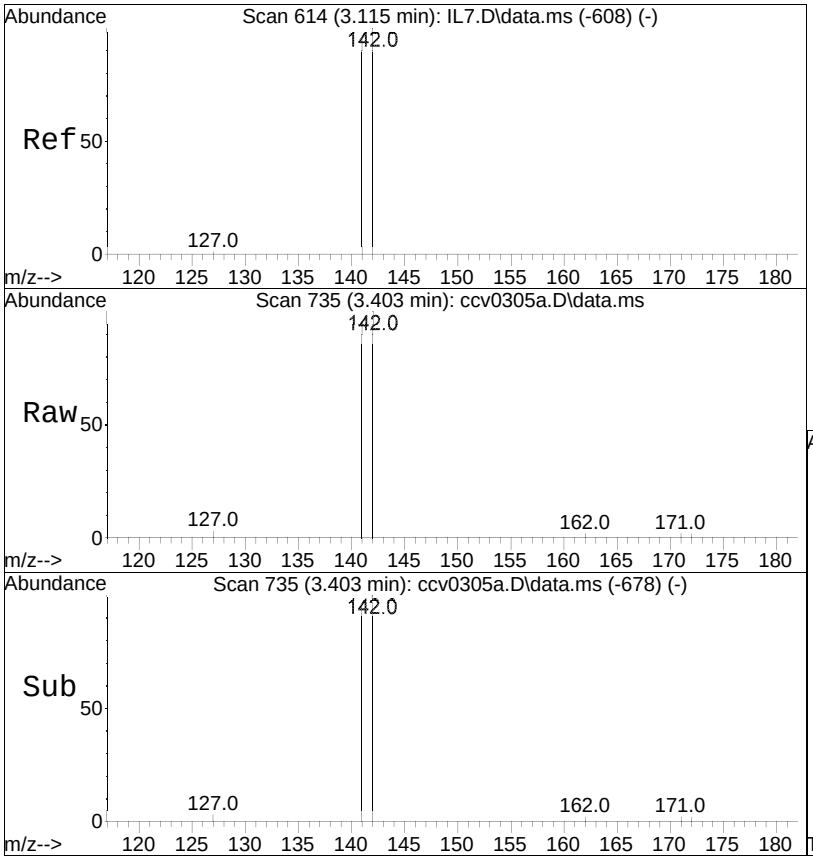


#11
2-Methylnaphthalene
Concen: 1102.98 ng/ml
RT: 3.345 min Scan# 716
Delta R.T. 0.000 min
Lab File: ccv0305a.D
Acq: 05 Mar 2024 06:57 am

Tgt Ion:142 Resp: 1078

Ion	Ratio	Lower	Upper
142	100		
141	94.4	75.9	113.9

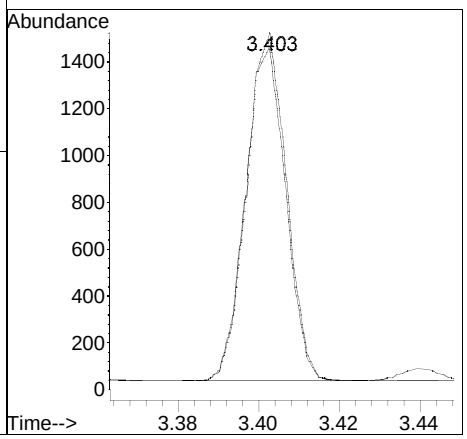


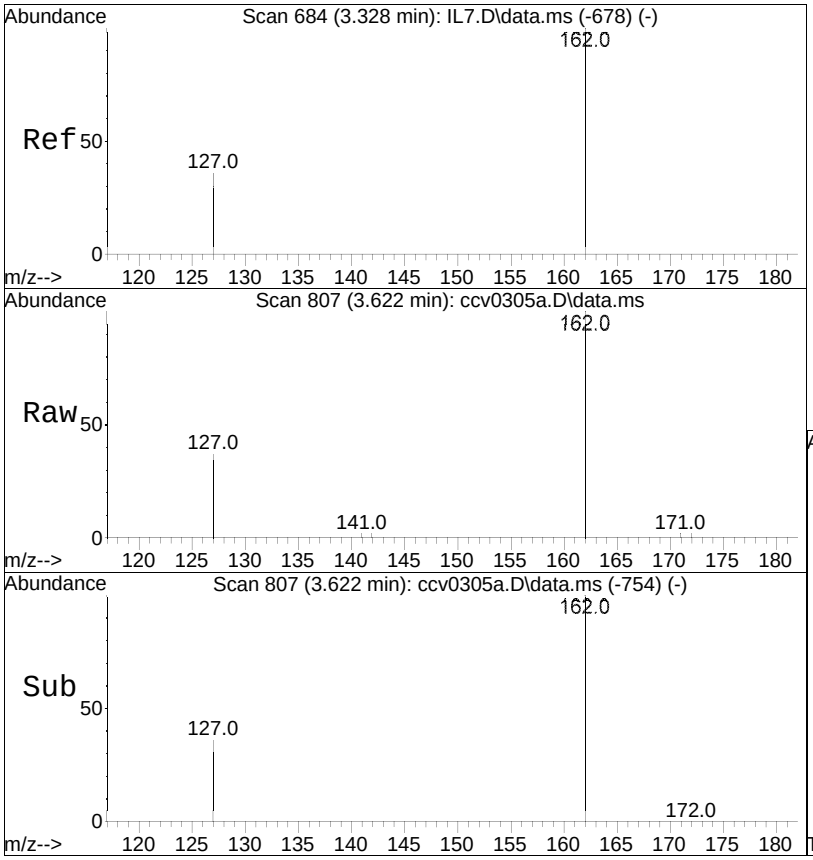


#12
1-Methylnaphthalene
Concen: 1089.75 ng/ml
RT: 3.403 min Scan# 735
Delta R.T. 0.000 min
Lab File: ccv0305a.D
Acq: 05 Mar 2024 06:57 am

Tgt Ion:142 Resp: 1003

Ion	Ratio	Lower	Upper
142	100		
141	97.2	77.9	116.9

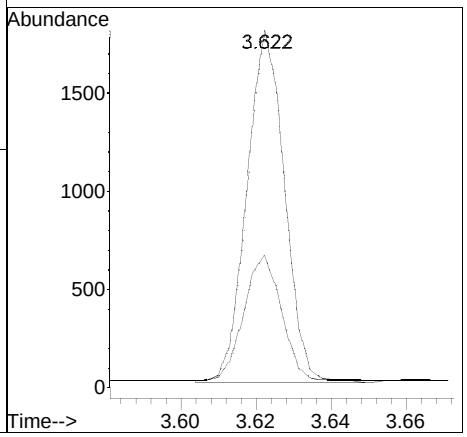


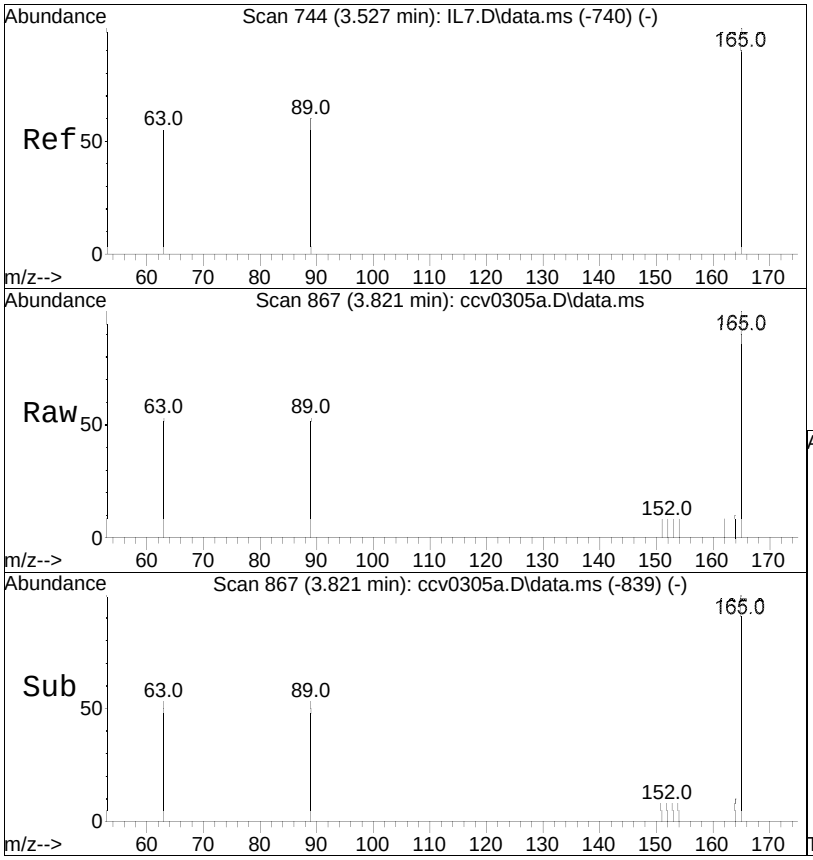


#14
2-Chloronaphthalene
Concen: 1160.72 ng/ml
RT: 3.622 min Scan# 807
Delta R.T. 0.000 min
Lab File: ccv0305a.D
Acq: 05 Mar 2024 06:57 am

Tgt Ion:162 Resp: 1235

Ion	Ratio	Lower	Upper
162	100		
127	35.2	29.3	43.9

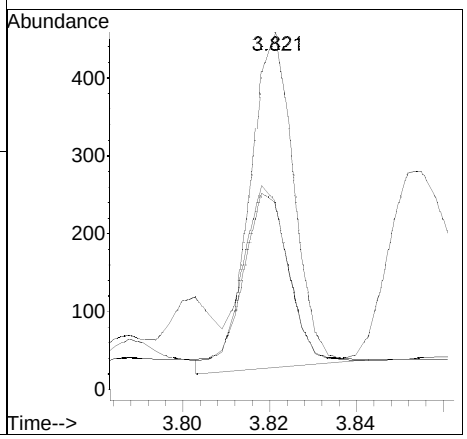


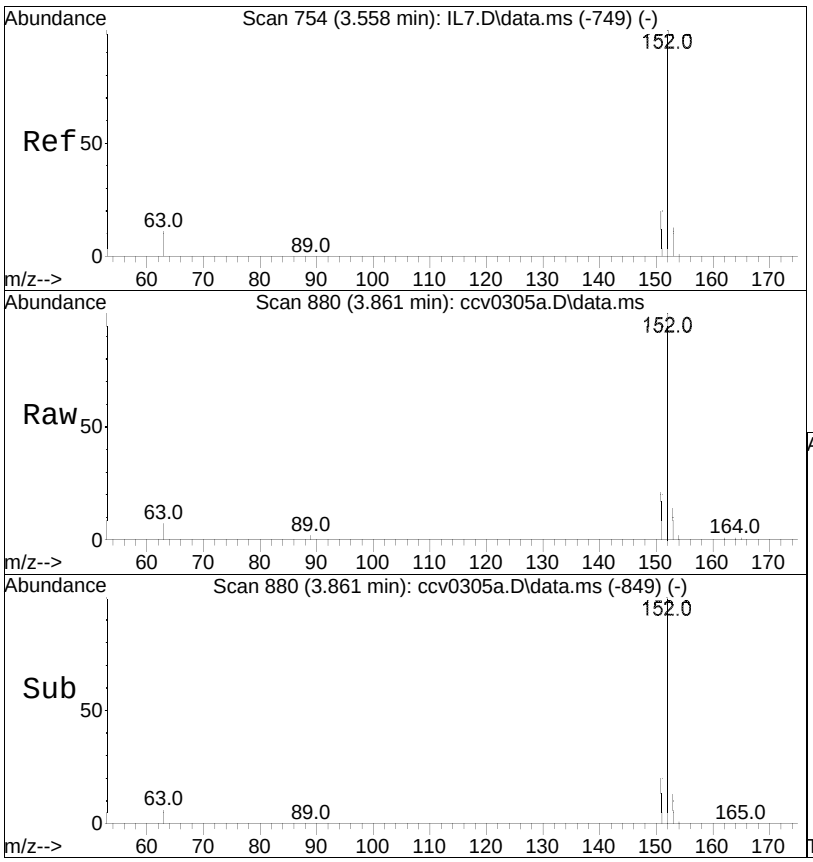


#15
2,6-Dinitrotoluene
Concen: 1588.62 ng/ml
RT: 3.821 min Scan# 867
Delta R.T. 0.000 min
Lab File: ccv0305a.D
Acq: 05 Mar 2024 06:57 am

Tgt Ion:165 Resp: 305

Ion	Ratio	Lower	Upper
165	100		
89	55.4	46.6	70.0
63	60.0	47.8	71.8

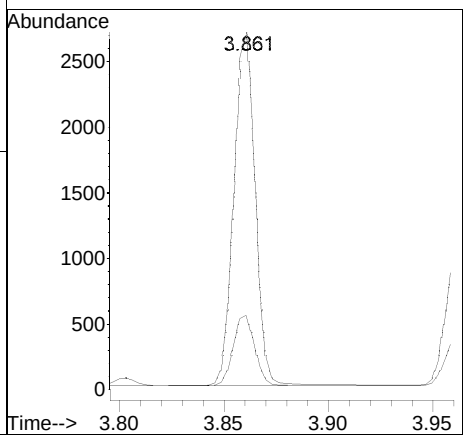


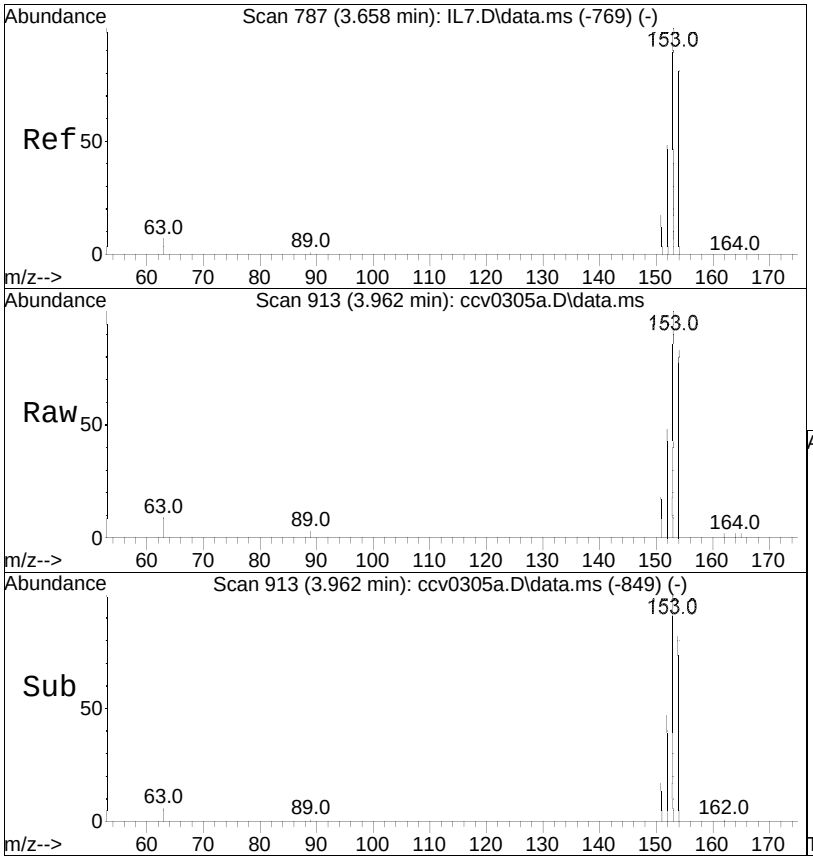


#16
Acenaphthylene
Concen: 1193.41 ng/ml
RT: 3.861 min Scan# 880
Delta R.T. 0.000 min
Lab File: ccv0305a.D
Acq: 05 Mar 2024 06:57 am

Tgt Ion:152 Resp: 1881

Ion	Ratio	Lower	Upper
152	100		
151	19.9	16.4	24.6

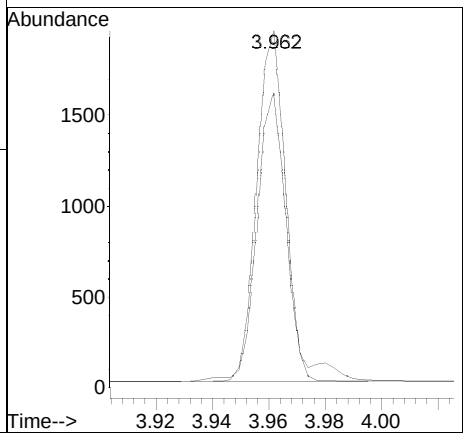


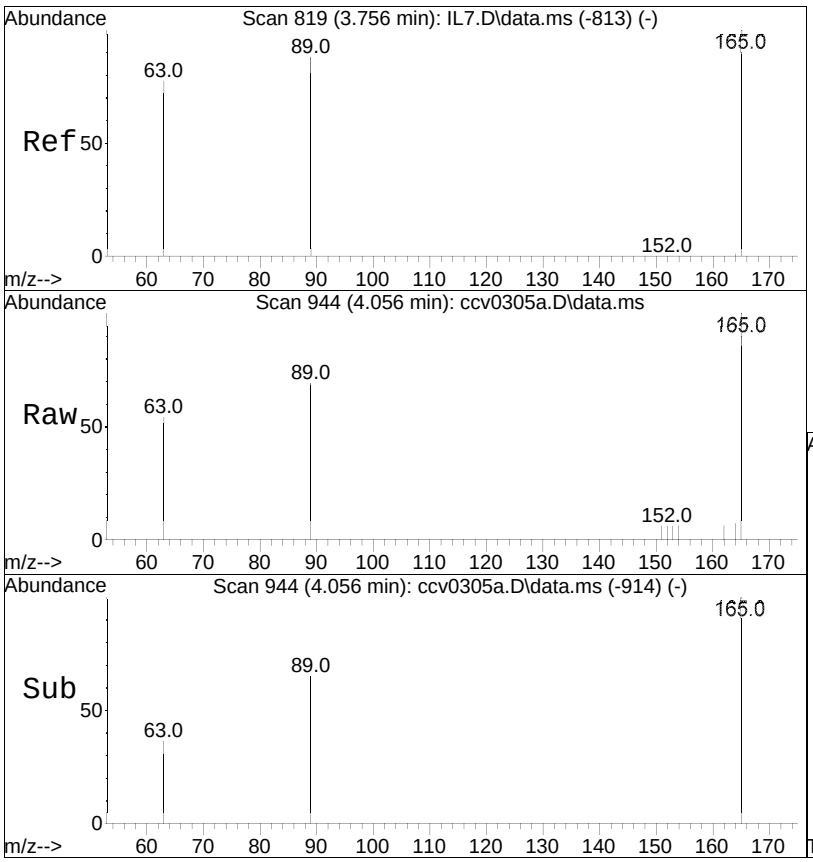


#18
Acenaphthene
Concen: 985.34 ng/ml
RT: 3.962 min Scan# 913
Delta R.T. 0.000 min
Lab File: ccv0305a.D
Acq: 05 Mar 2024 06:57 am

Tgt Ion:153 Resp: 1347

Ion	Ratio	Lower	Upper
153	100		
154	88.7	65.8	98.6

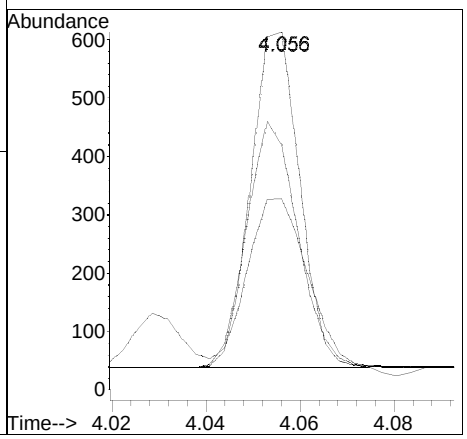


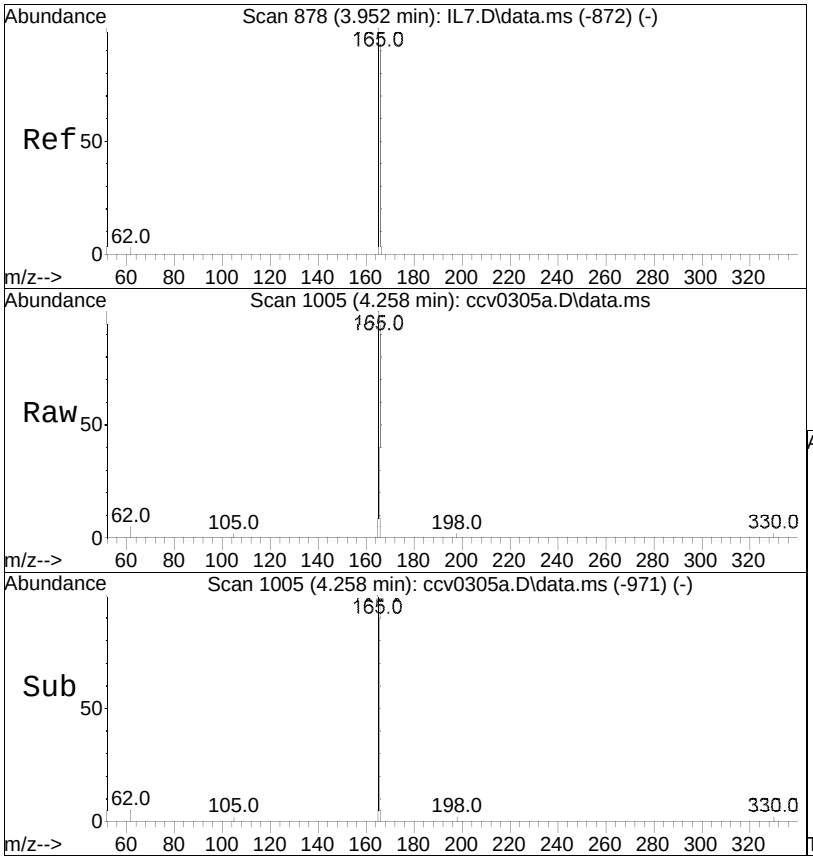


#19
2,4-Dinitrotoluene
Concen: 1360.55 ng/ml M6
RT: 4.056 min Scan# 944
Delta R.T. 0.000 min
Lab File: ccv0305a.D
Acq: 05 Mar 2024 06:57 am

Tgt Ion:165 Resp: 413

Ion	Ratio	Lower	Upper
165	100		
89	78.0	70.6	105.8
63	61.3	62.7	94.1#

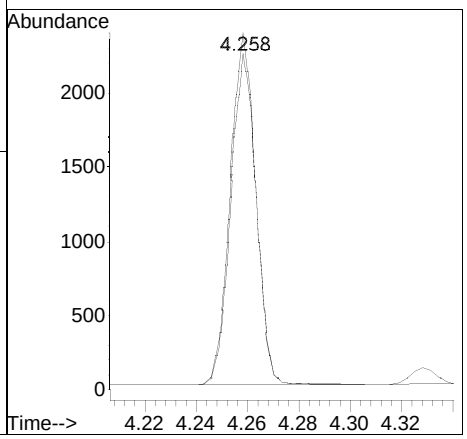


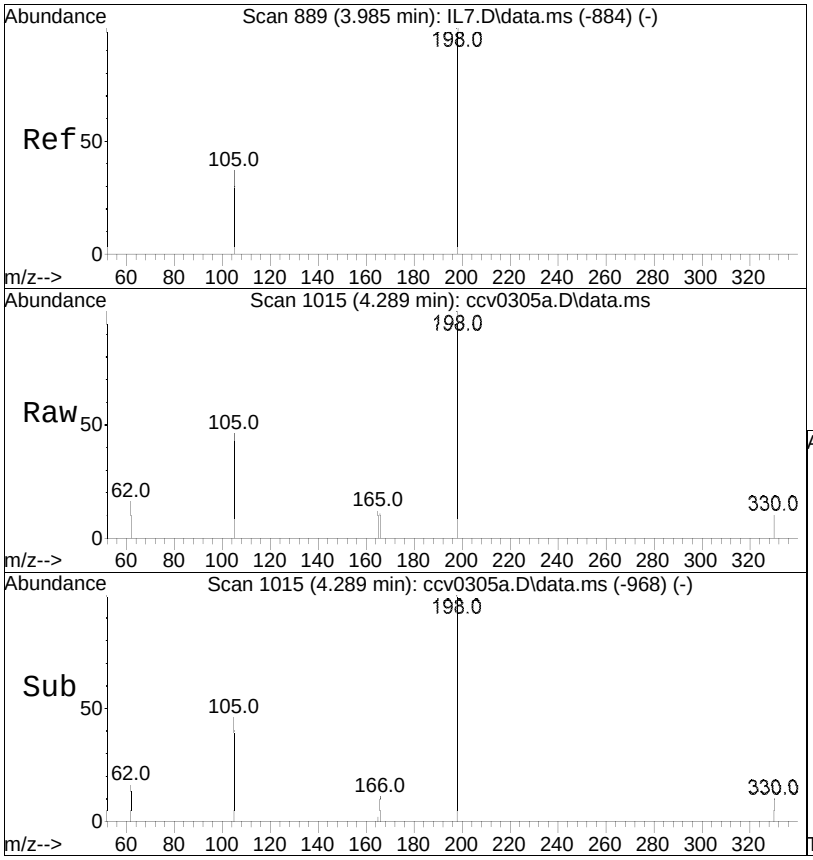


#20
Fluorene
Concen: 1106.78 ng/ml
RT: 4.258 min Scan# 1005
Delta R.T. 0.000 min
Lab File: ccv0305a.D
Acq: 05 Mar 2024 06:57 am

Tgt Ion:166 Resp: 1527

Ion	Ratio	Lower	Upper
166	100		
165	106.0	85.7	128.5

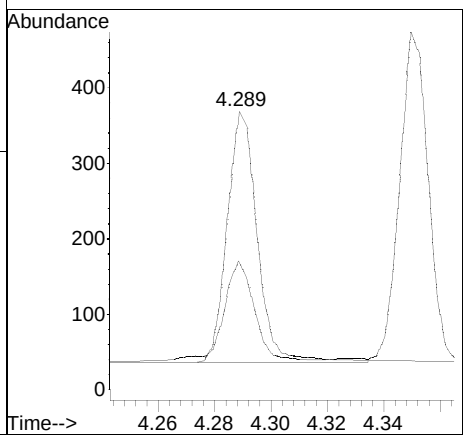


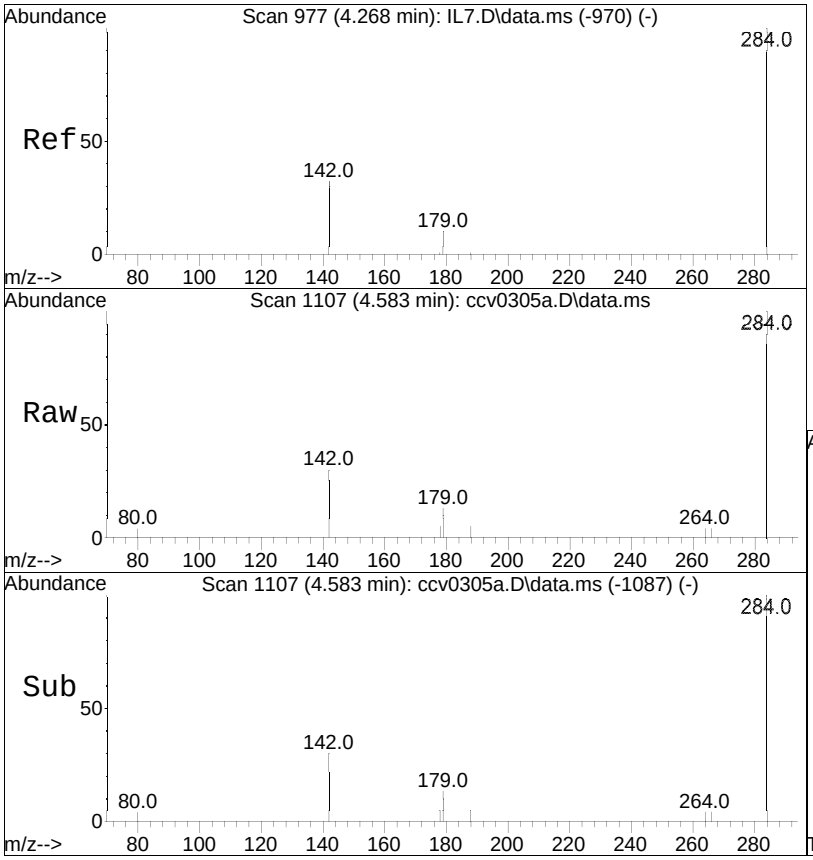


#23
4,6-Dinitro-o-cresol
Concen: 1167.88 ng/ml
RT: 4.289 min Scan# 1015
Delta R.T. 0.000 min
Lab File: ccv0305a.D
Acq: 05 Mar 2024 06:57 am

Tgt Ion:198 Resp: 245

Ion	Ratio	Lower	Upper
198	100		
105	37.1	31.4	47.2

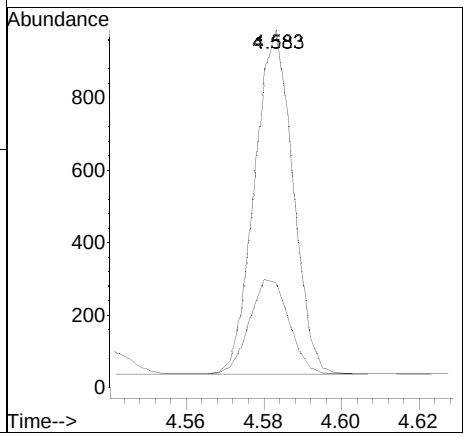


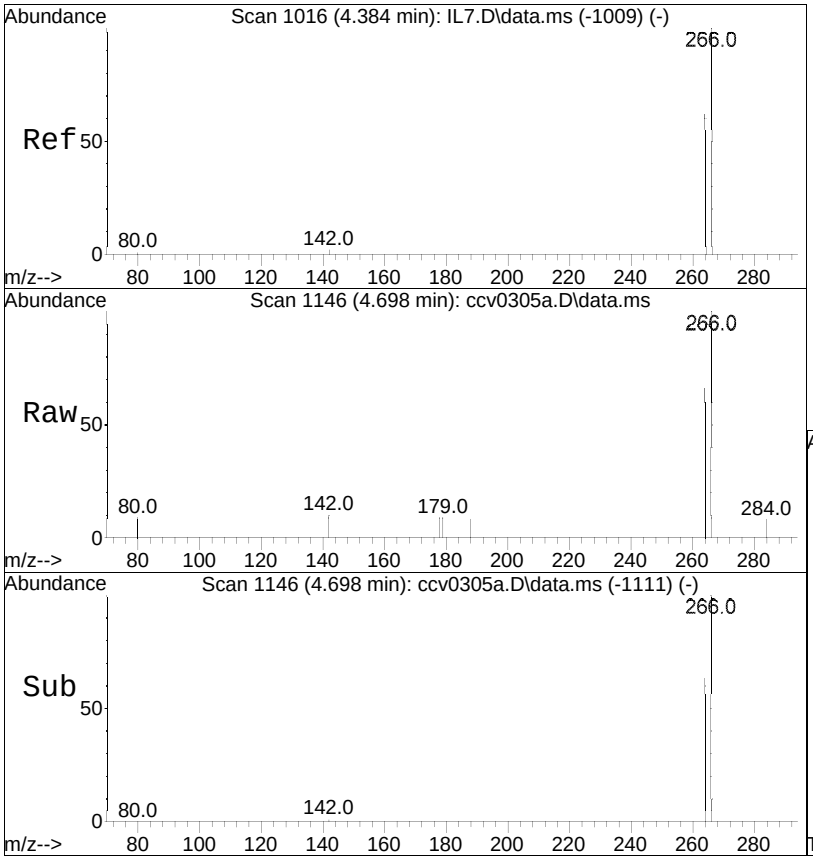


#24
Hexachlorobenzene
Concen: 915.01 ng/ml
RT: 4.583 min Scan# 1107
Delta R.T. 0.000 min
Lab File: ccv0305a.D
Acq: 05 Mar 2024 06:57 am

Tgt Ion:284 Resp: 646

Ion	Ratio	Lower	Upper
284	100		
142	28.2	23.9	35.9

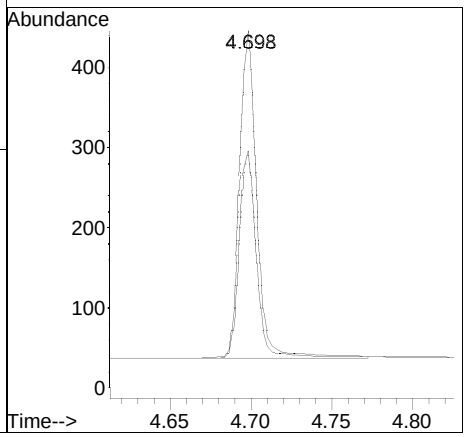


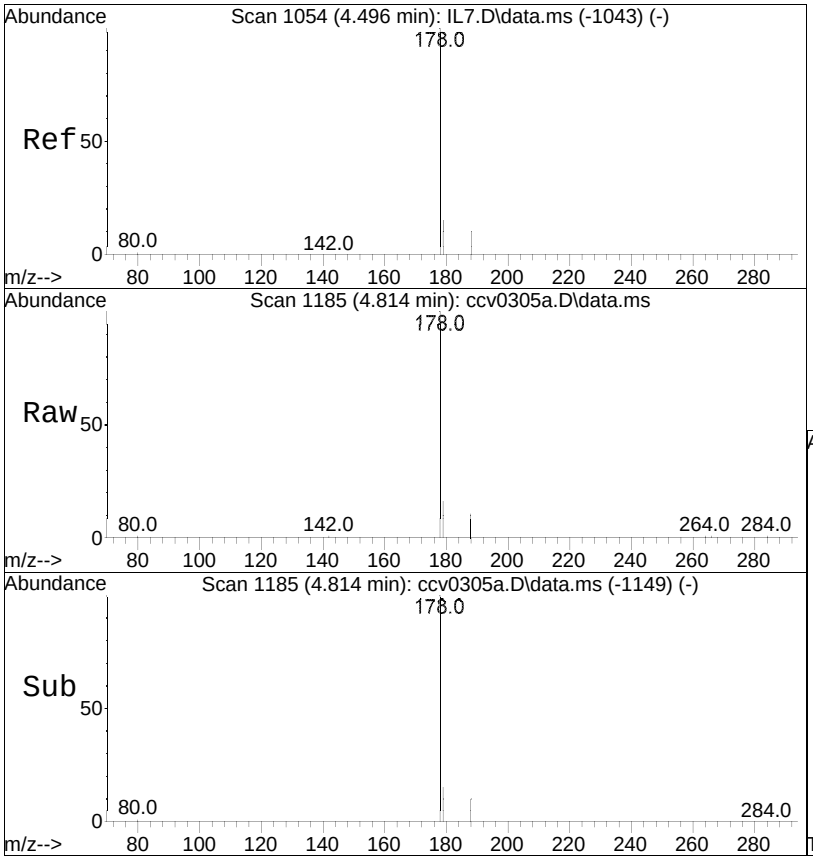


#25
Pentachlorophenol
Concen: 1028.45 ng/ml
RT: 4.698 min Scan# 1146
Delta R.T. 0.000 min
Lab File: ccv0305a.D
Acq: 05 Mar 2024 06:57 am

Tgt Ion:266 Resp: 303

Ion	Ratio	Lower	Upper
266	100		
264	62.0	49.7	74.5

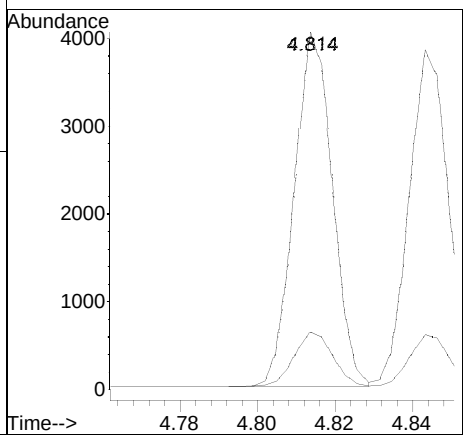


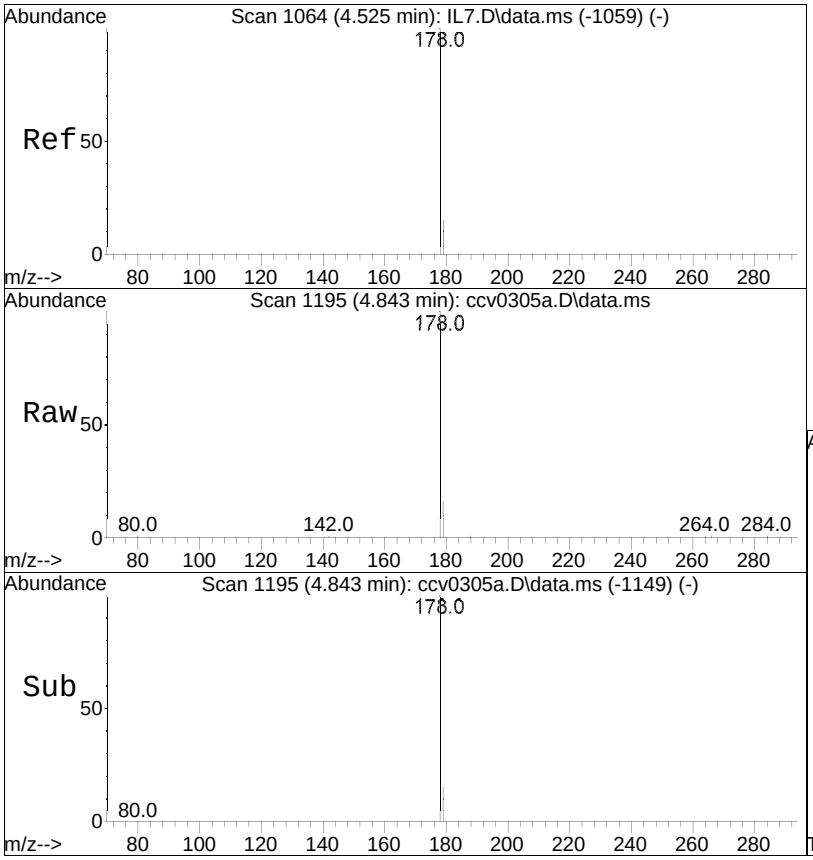


#26
Phenanthrene
Concen: 963.38 ng/ml
RT: 4.814 min Scan# 1185
Delta R.T. 0.000 min
Lab File: ccv0305a.D
Acq: 05 Mar 2024 06:57 am

Tgt Ion:178 Resp: 2764

Ion	Ratio	Lower	Upper
178	100		
179	15.4	12.2	18.4

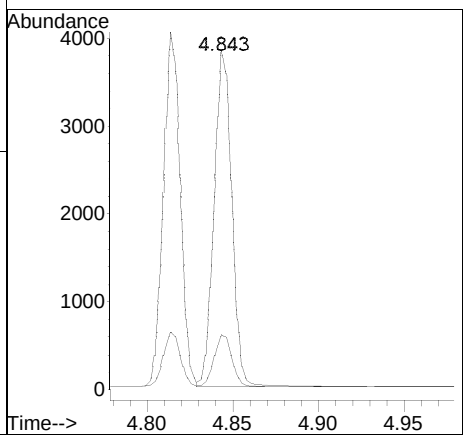


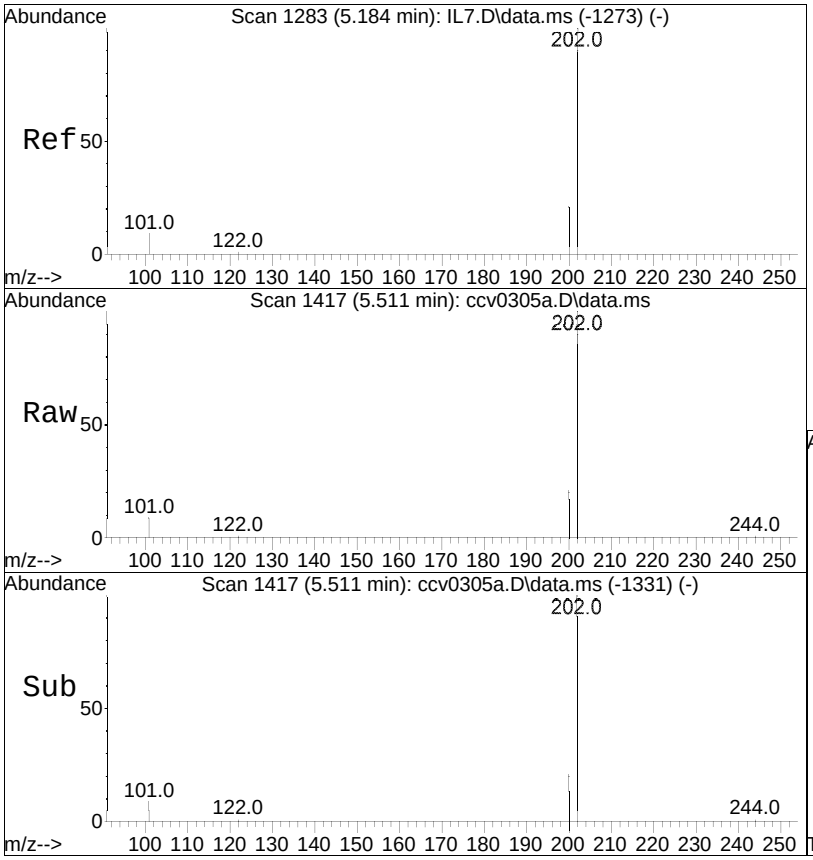


#27
Anthracene
Concen: 985.84 ng/ml
RT: 4.843 min Scan# 1195
Delta R.T. 0.000 min
Lab File: ccv0305a.D
Acq: 05 Mar 2024 06:57 am

Tgt Ion:178 Resp: 2733

Ion	Ratio	Lower	Upper
178	100		
179	15.3	12.2	18.2

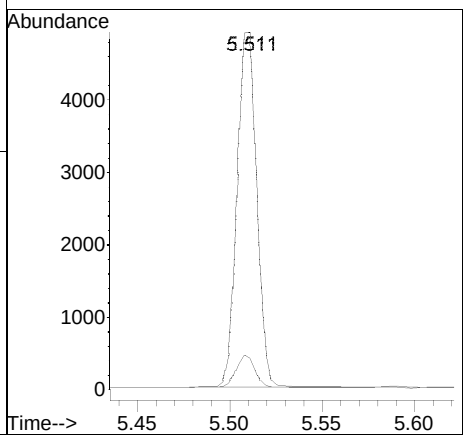


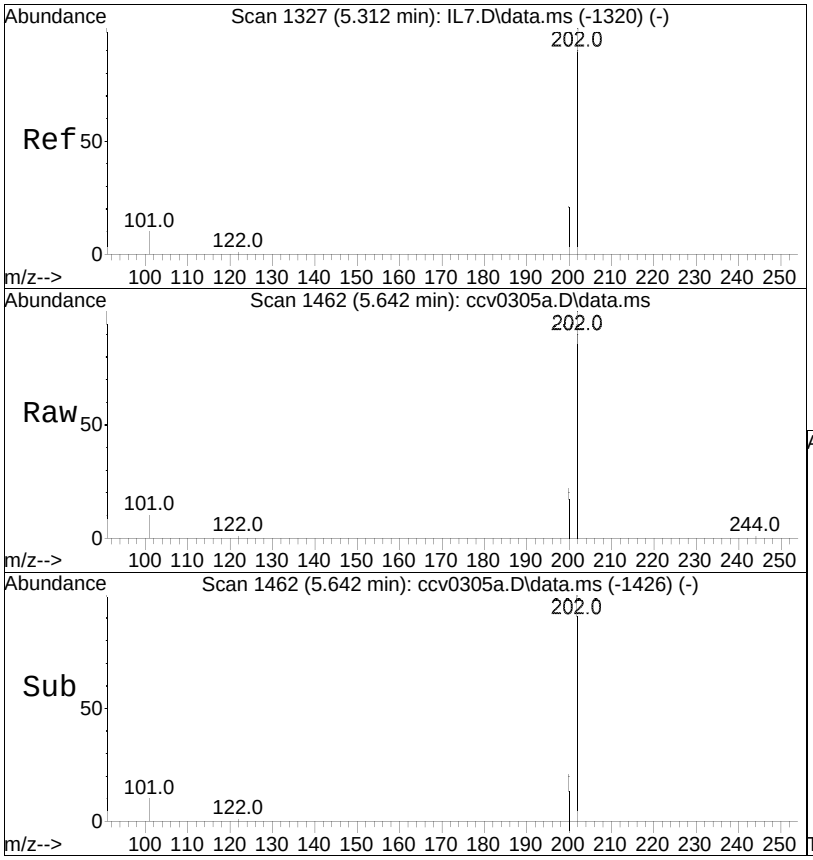


#28
Fluoranthene
Concen: 1131.94 ng/ml
RT: 5.511 min Scan# 1417
Delta R.T. 0.000 min
Lab File: ccv0305a.D
Acq: 05 Mar 2024 06:57 am

Tgt Ion:202 Resp: 3568

Ion	Ratio	Lower	Upper
202	100		
101	8.6	7.2	10.8

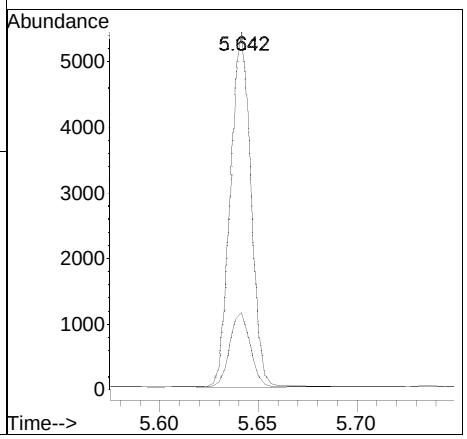


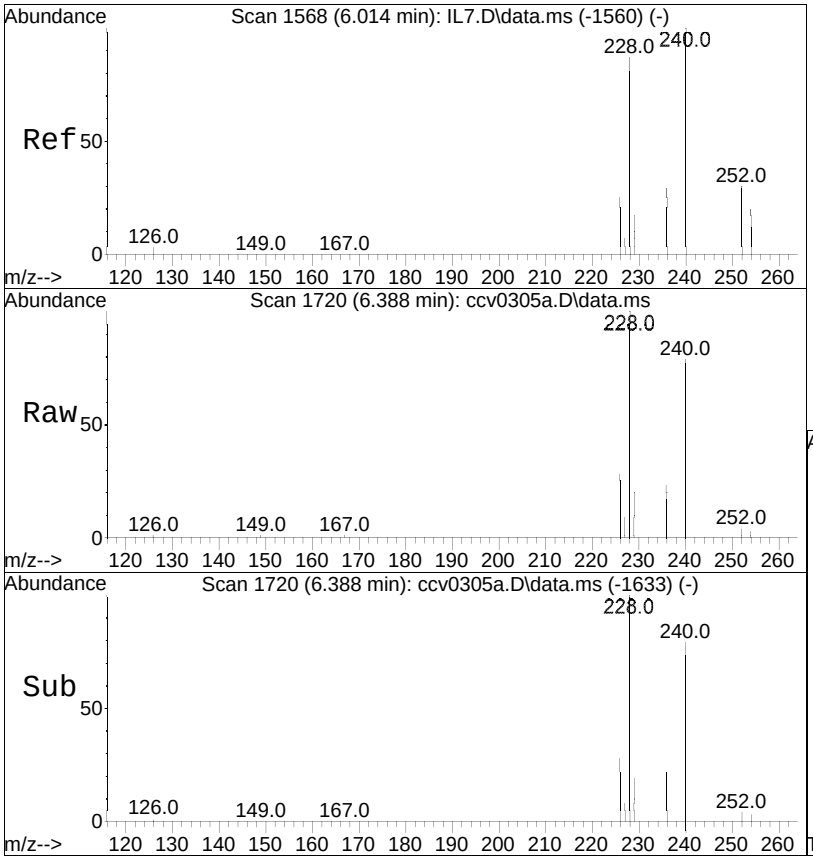


#29
Pyrene
Concen: 1191.56 ng/ml
RT: 5.642 min Scan# 1462
Delta R.T. 0.000 min
Lab File: ccv0305a.D
Acq: 05 Mar 2024 06:57 am

Tgt Ion:202 Resp: 3886

Ion	Ratio	Lower	Upper
202	100		
200	20.9	17.7	26.5

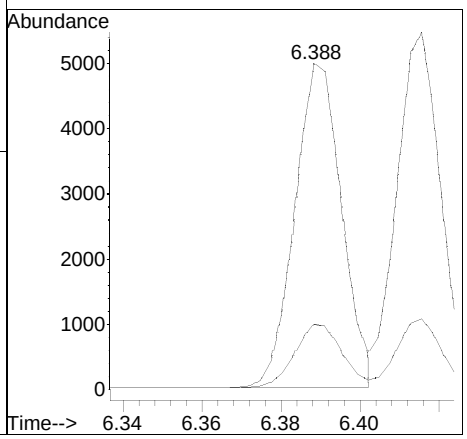


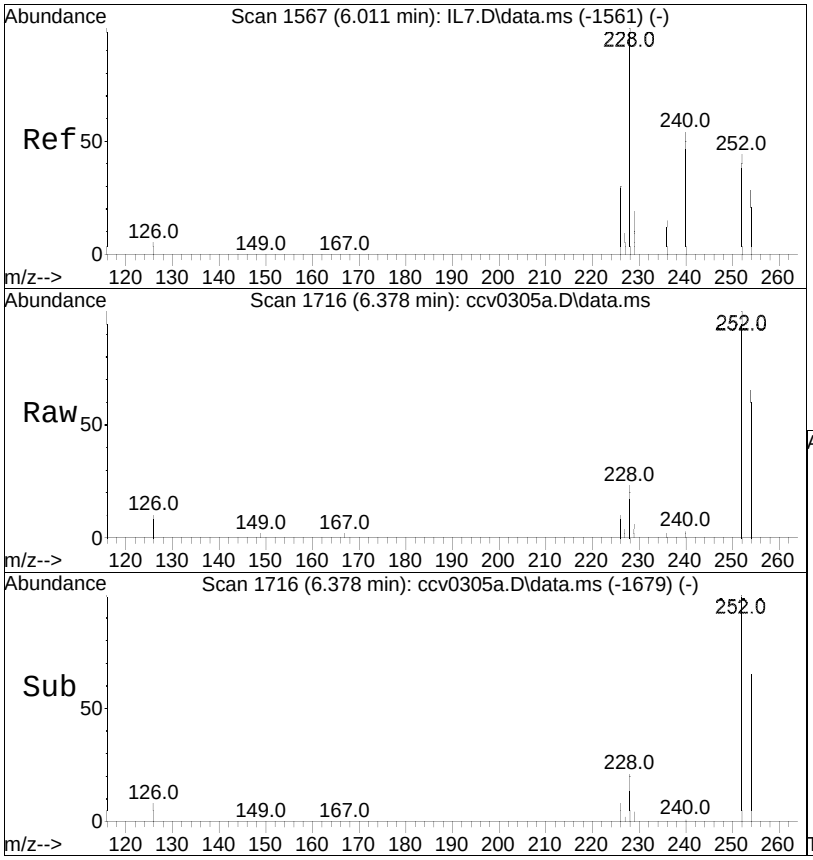


#32
Benzo[a]anthracene
Concen: 922.51 ng/ml
RT: 6.388 min Scan# 1720
Delta R.T. 0.000 min
Lab File: ccv0305a.D
Acq: 05 Mar 2024 06:57 am

Tgt Ion:228 Resp: 4088

Ion	Ratio	Lower	Upper
228	100		
229	19.7	15.7	23.5

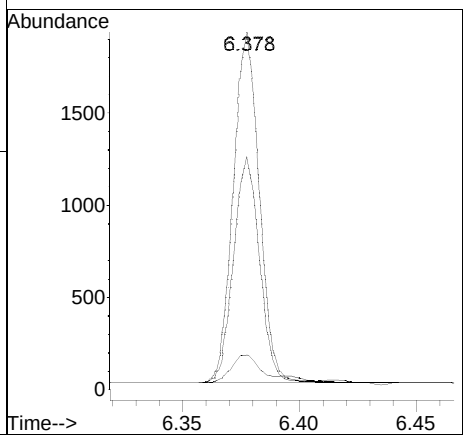


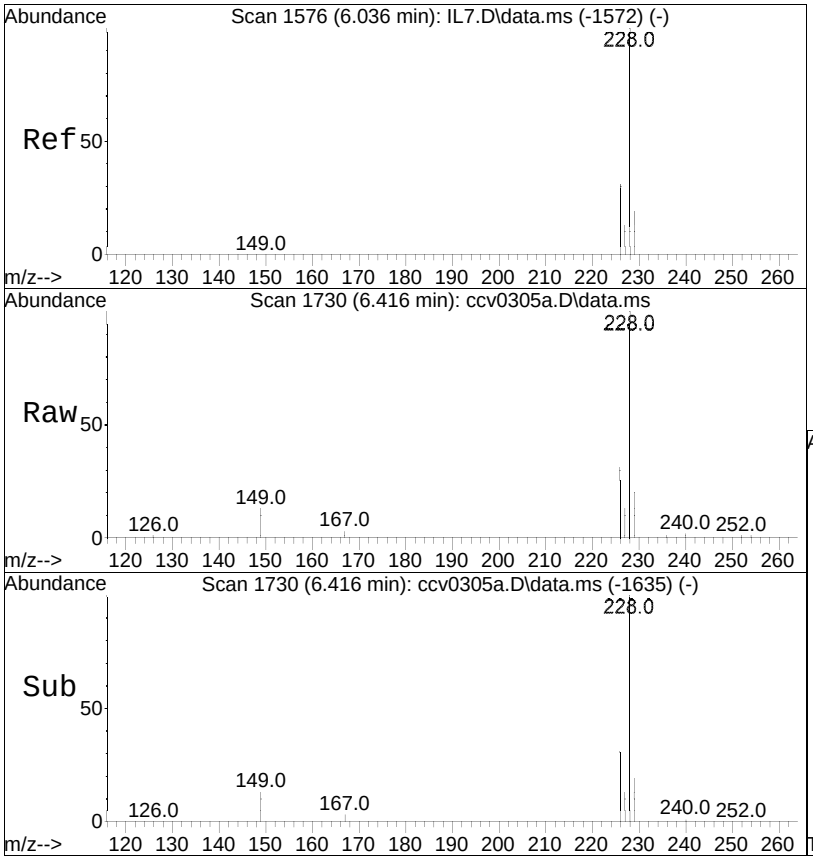


#33
3,3'-Dichlorobenzidine
Concen: 843.54 ng/ml
RT: 6.378 min Scan# 1716
Delta R.T. 0.000 min
Lab File: ccv0305a.D
Acq: 05 Mar 2024 06:57 am

Tgt Ion:252 Resp: 1454

Ion	Ratio	Lower	Upper
252	100		
126	10.9	9.4	14.0
254	68.3	51.8	77.6

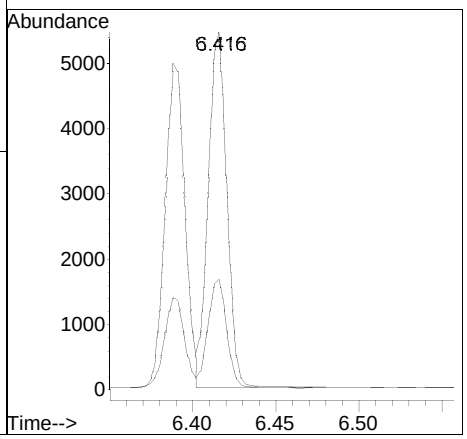


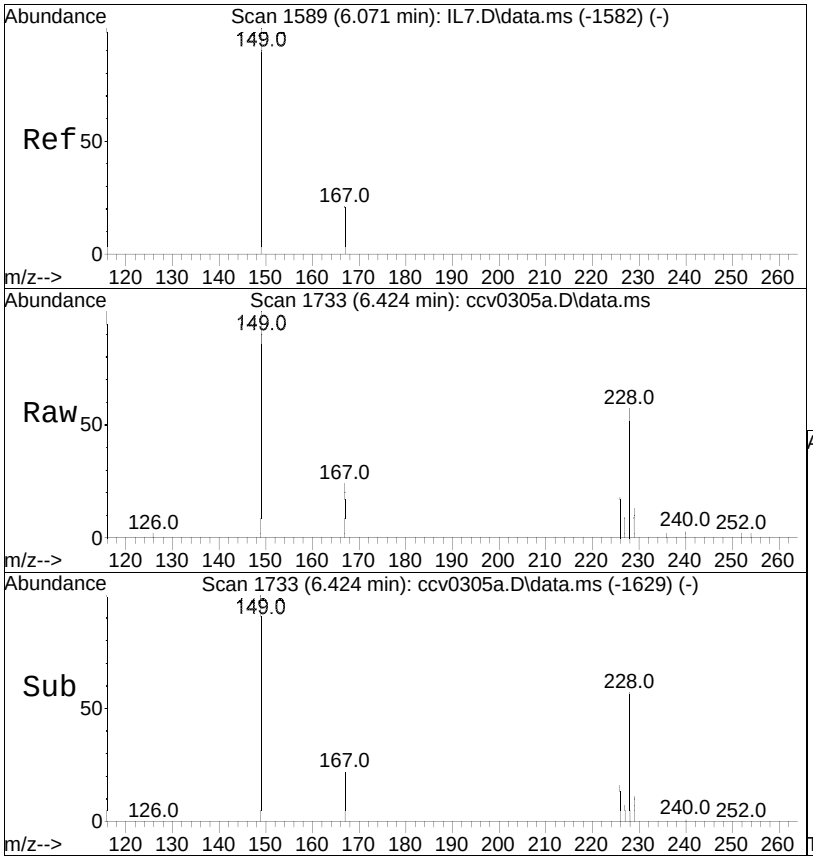


#34
Chrysene
Concen: 993.27 ng/ml
RT: 6.416 min Scan# 1730
Delta R.T. 0.000 min
Lab File: ccv0305a.D
Acq: 05 Mar 2024 06:57 am

Tgt Ion:228 Resp: 4203

Ion	Ratio	Lower	Upper
228	100		
226	31.7	24.6	36.8

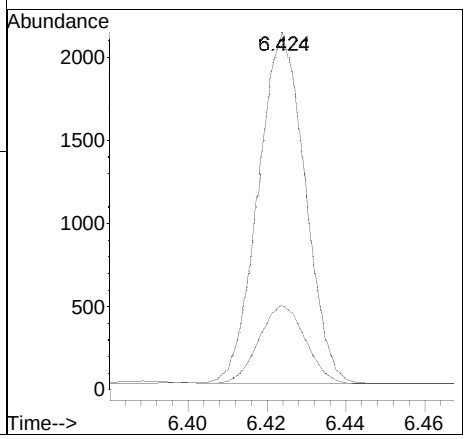


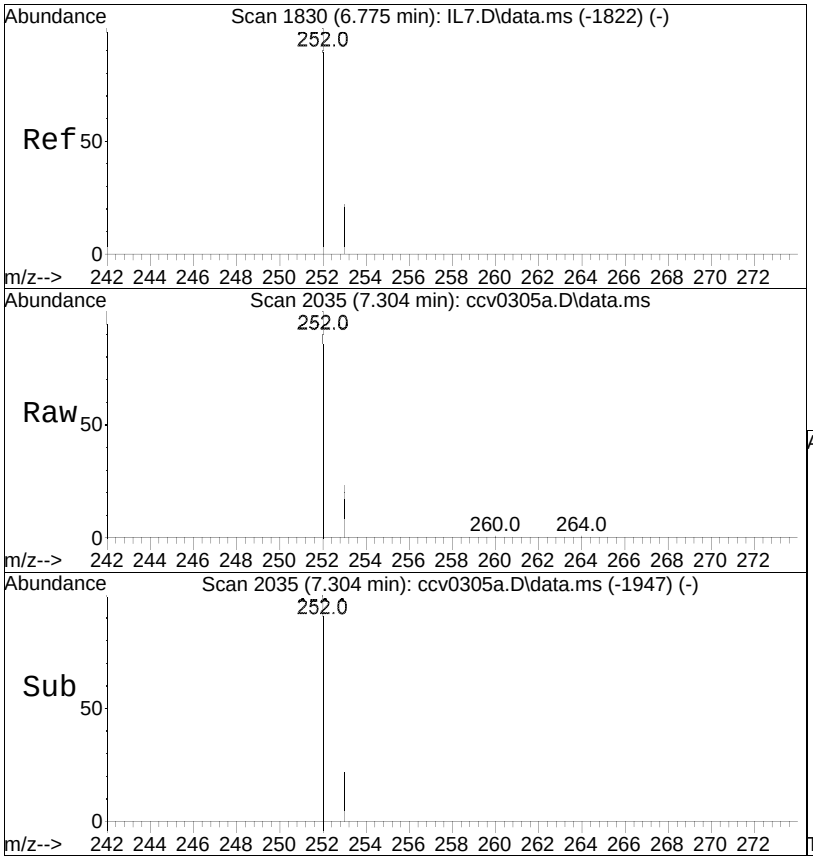


#35
Bis(2-ethylhexyl)phthalate
Concen: 806.69 ng/ml M6
RT: 6.424 min Scan# 1733
Delta R.T. 0.000 min
Lab File: ccv0305a.D
Acq: 05 Mar 2024 06:57 am

Tgt Ion:149 Resp: 1717

Ion	Ratio	Lower	Upper
149	100		
167	22.1	16.4	24.6

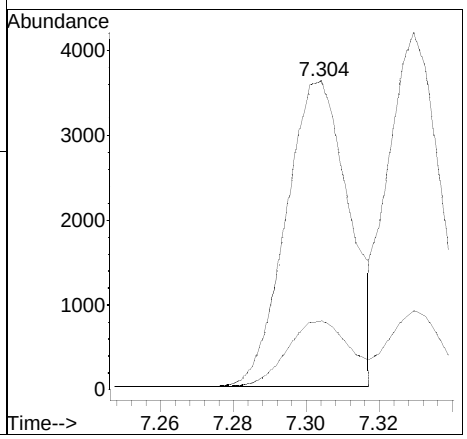


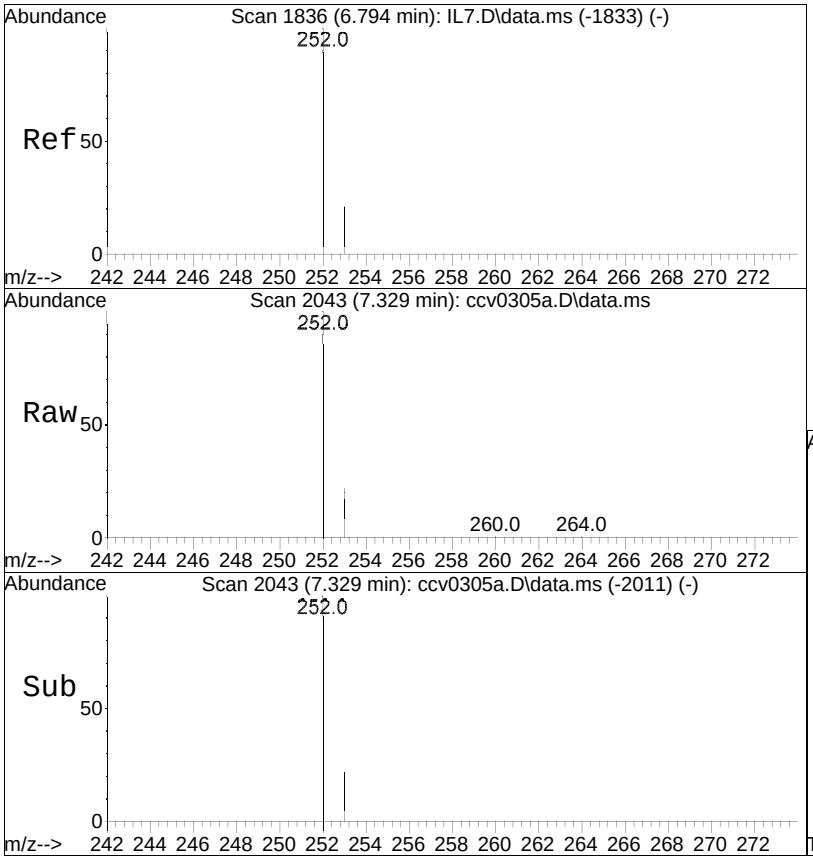


#37
Benzo[b]fluoranthene
Concen: 993.46 ng/ml M6
RT: 7.304 min Scan# 2035
Delta R.T. 0.000 min
Lab File: ccv0305a.D
Acq: 05 Mar 2024 06:57 am

Tgt Ion:252 Resp: 4365

Ion	Ratio	Lower	Upper
252	100		
253	21.5	17.1	25.7

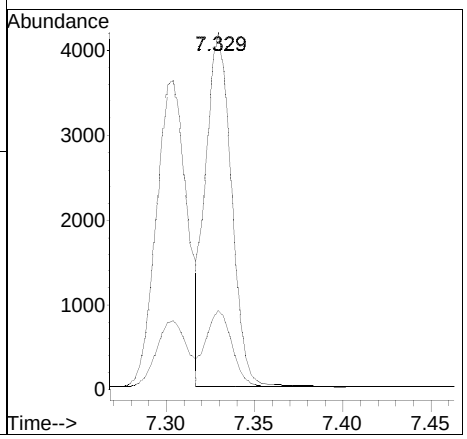


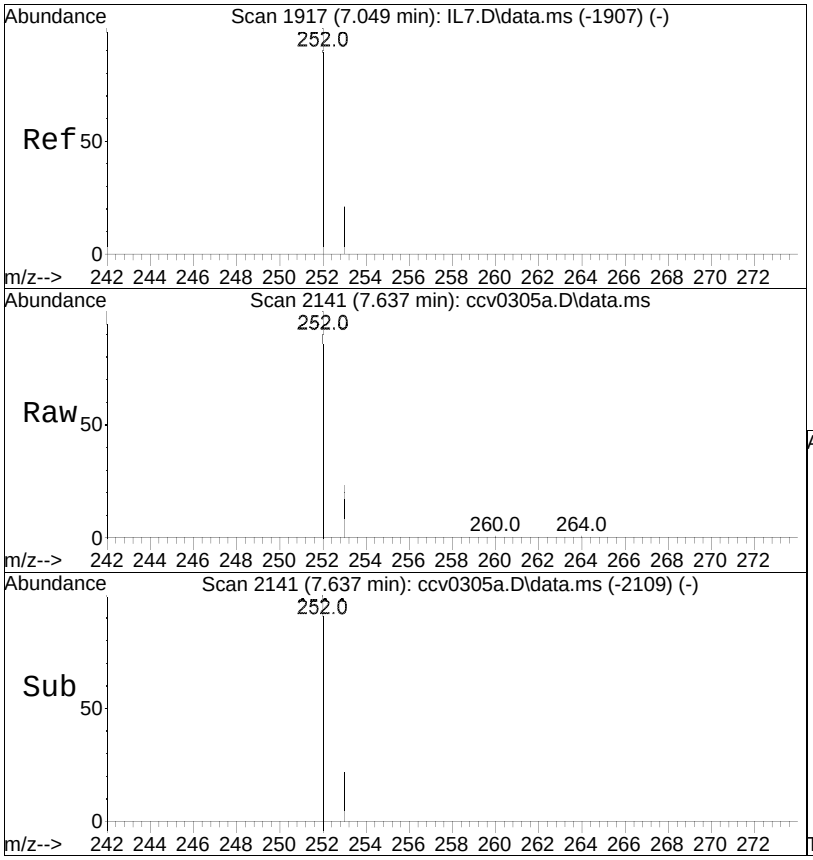


#38
Benzo[k]fluoranthene
Concen: 1026.71 ng/ml
RT: 7.329 min Scan# 2043
Delta R.T. 0.000 min
Lab File: ccv0305a.D
Acq: 05 Mar 2024 06:57 am

Tgt Ion:252 Resp: 4198

Ion	Ratio	Lower	Upper
252	100		
253	23.3	17.3	25.9

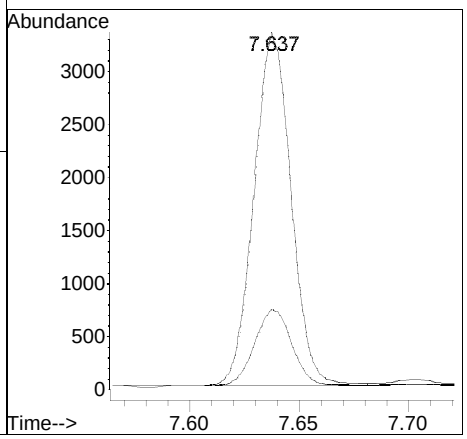


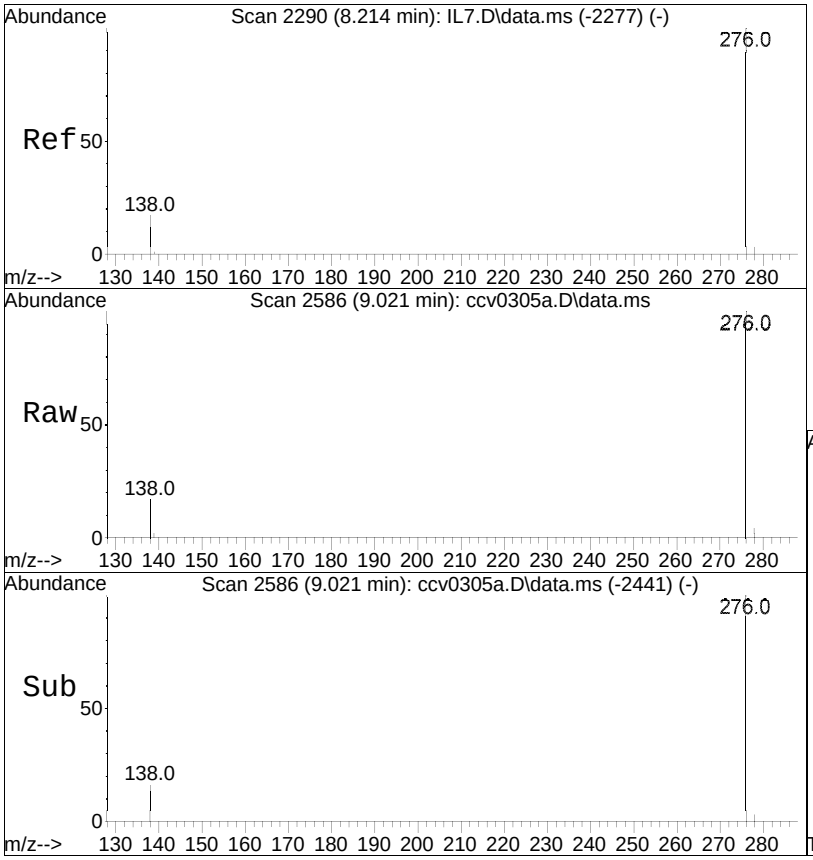


#39
Benzo[a]pyrene
Concen: 1001.27 ng/ml M6
RT: 7.637 min Scan# 2141
Delta R.T. 0.000 min
Lab File: ccv0305a.D
Acq: 05 Mar 2024 06:57 am

Tgt Ion:252 Resp: 3874

Ion	Ratio	Lower	Upper
252	100		
253	21.8	17.3	25.9

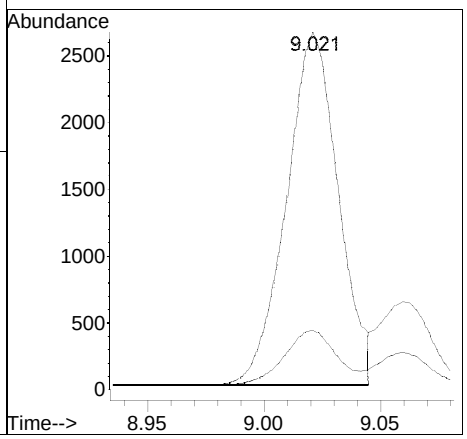


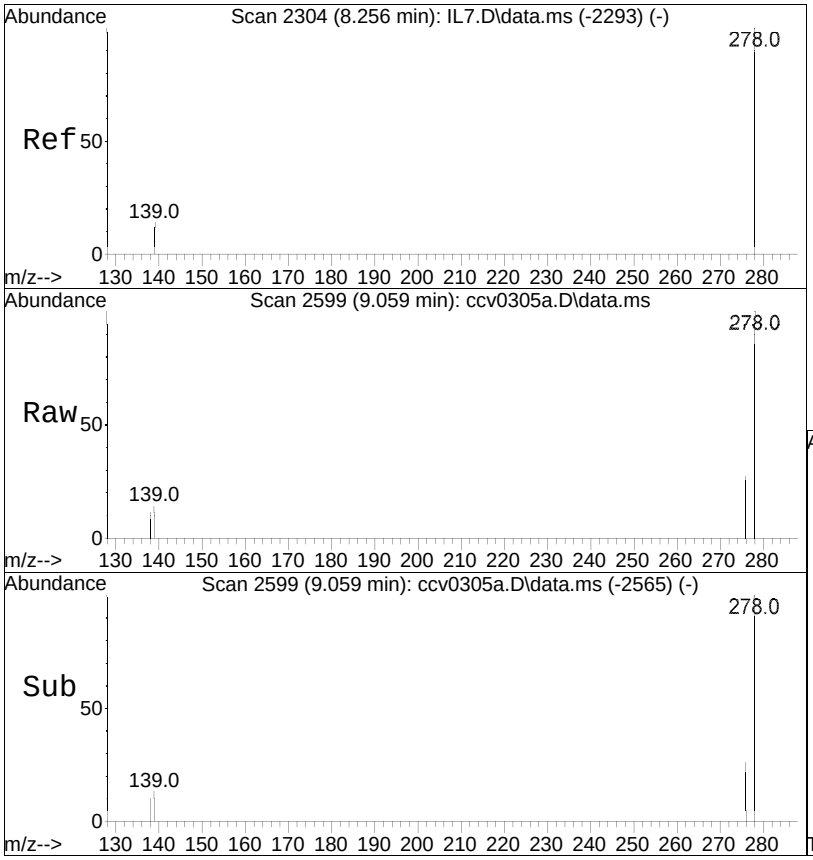


#40
Indeno[1,2,3-cd]pyrene
Concen: 1048.65 ng/ml
RT: 9.021 min Scan# 2586
Delta R.T. 0.000 min
Lab File: ccv0305a.D
Acq: 05 Mar 2024 06:57 am

Tgt Ion:276 Resp: 4057

Ion	Ratio	Lower	Upper
276	100		
138	15.8	13.4	20.2

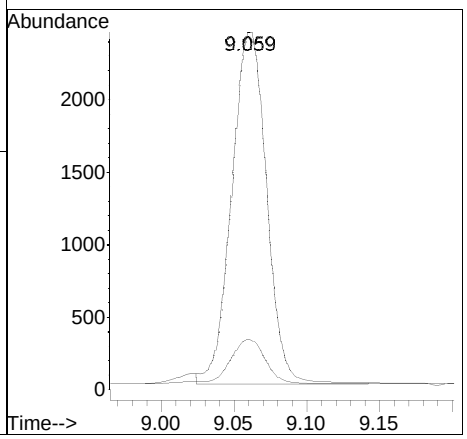


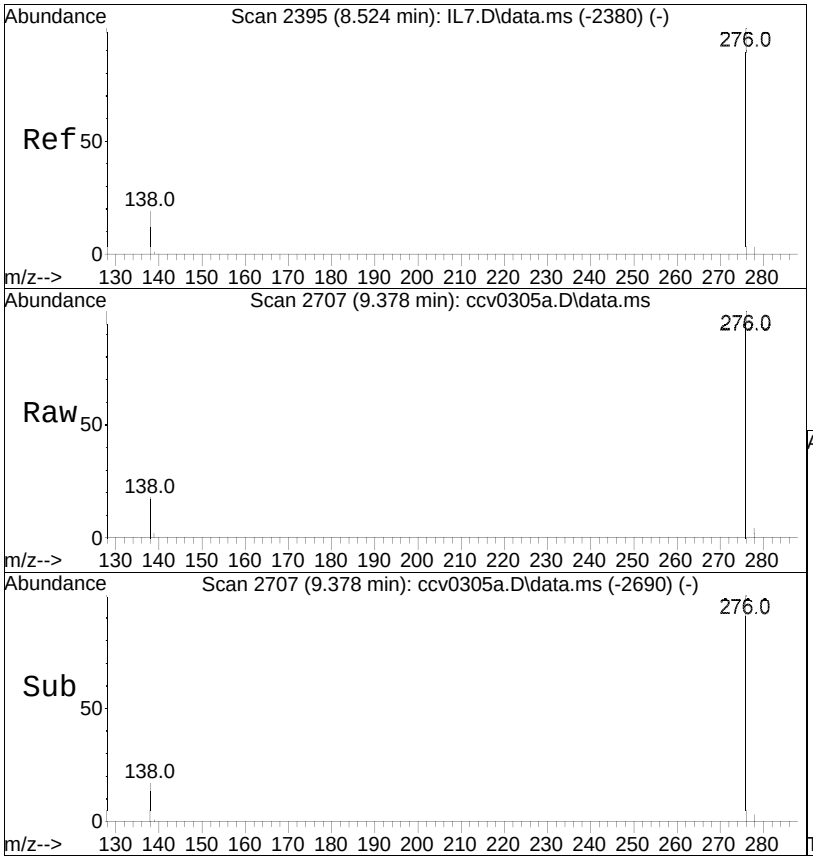


#41
Dibenzo[a,h]anthracene
Concen: 1071.99 ng/ml M6
RT: 9.059 min Scan# 2599
Delta R.T. 0.000 min
Lab File: ccv0305a.D
Acq: 05 Mar 2024 06:57 am

Tgt Ion:278 Resp: 4028

Ion	Ratio	Lower	Upper
278	100		
139	12.4	10.9	16.3

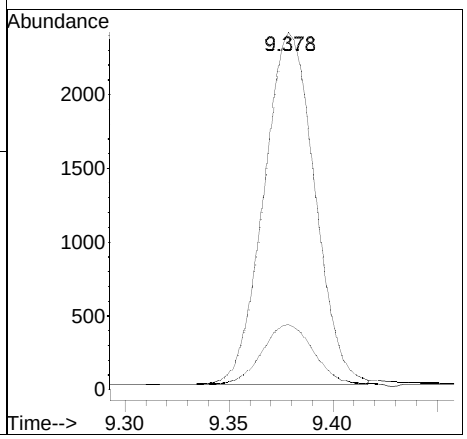




#42
Benzo[g,h,i]perylene
Concen: 993.71 ng/ml
RT: 9.378 min Scan# 2707
Delta R.T. 0.000 min
Lab File: ccv0305a.D
Acq: 05 Mar 2024 06:57 am

Tgt Ion:276 Resp: 3996

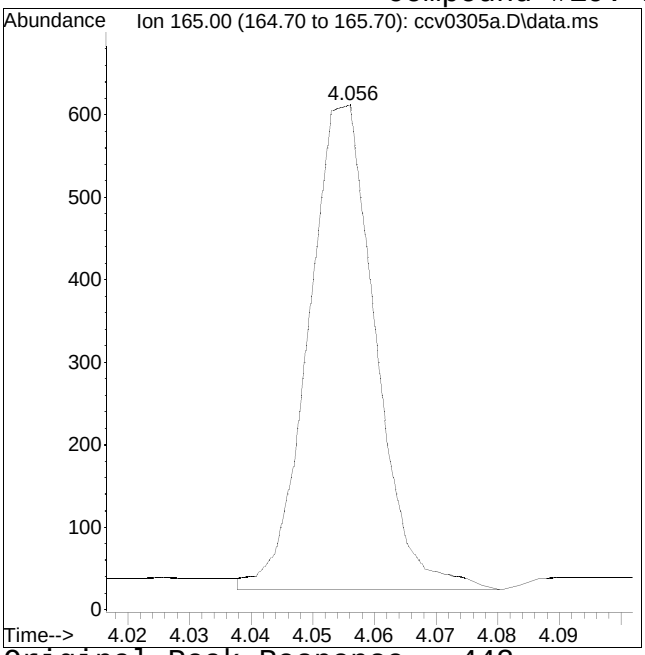
Ion	Ratio	Lower	Upper
276	100		
138	17.0	14.8	22.2



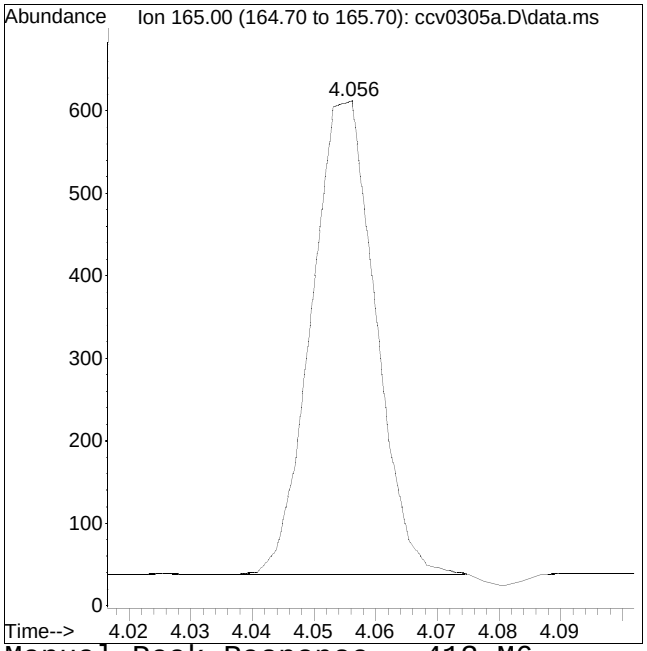
Manual Integration Report

Data Path : I:\8270SIM\SV128\240305\ QMethod : SIM-LVI_231211_sv128.M
Data File : ccv0305a.D Operator : SV128:jjw
Date Inj'd : 3/5/2024 6:57 am Instrument : SV128
Sample : WG1892213-3,32,,ICV 10475 Quant Date : 3/5/2024 7:16 am

Compound #19: 2,4-Dinitrotoluene



Original Peak Response = 442



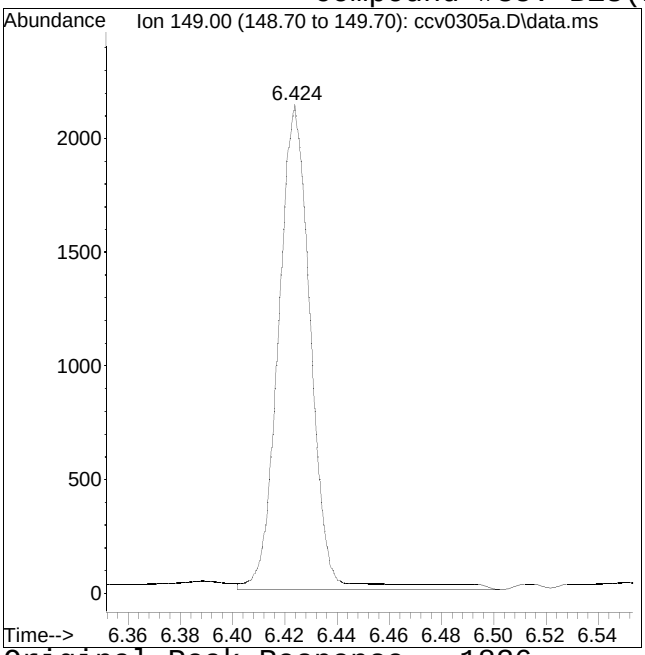
Manual Peak Response = 413 M6

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

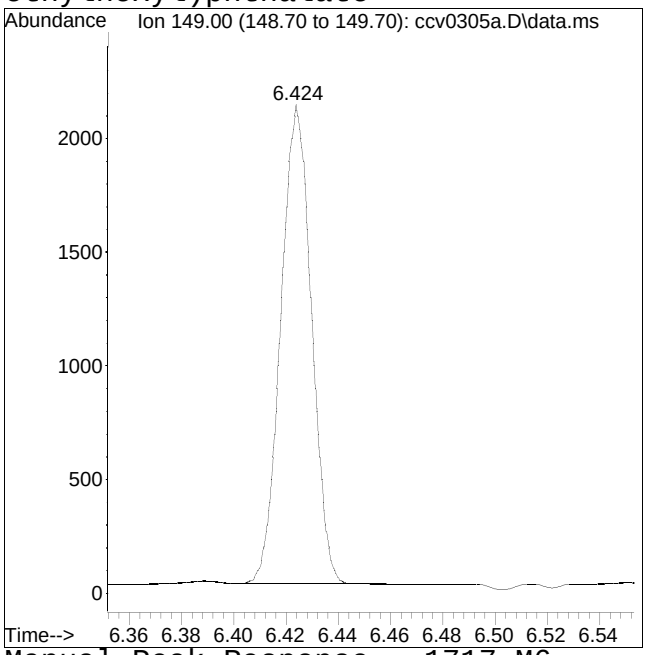
Manual Integration Report

Data Path : I:\8270SIM\SV128\240305\ QMethod : SIM-LVI_231211_sv128.M
Data File : ccv0305a.D Operator : SV128:jjw
Date Inj'd : 3/5/2024 6:57 am Instrument : SV128
Sample : WG1892213-3,32,,ICV 10475 Quant Date : 3/5/2024 7:16 am

Compound #35: Bis(2-ethylhexyl)phthalate



Original Peak Response = 1836



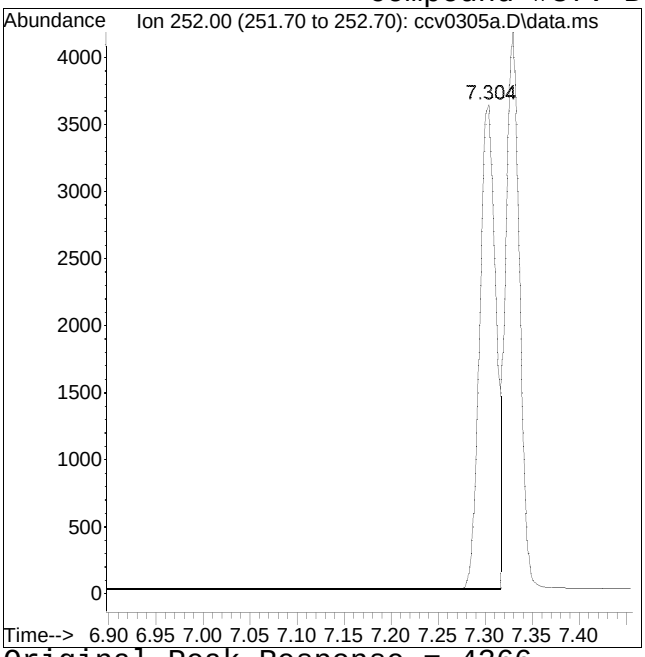
Manual Peak Response = 1717 M6

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

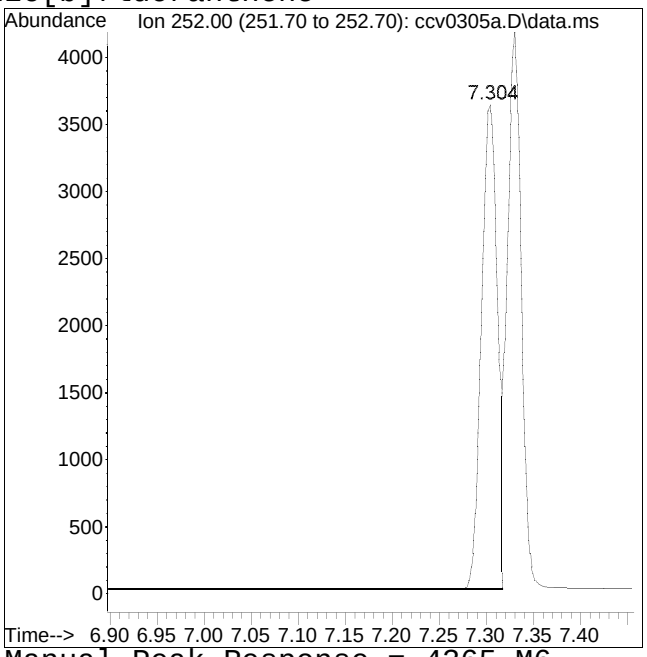
Manual Integration Report

Data Path : I:\8270SIM\SV128\240305\ QMethod : SIM-LVI_231211_sv128.M
Data File : ccv0305a.D Operator : SV128:jjw
Date Inj'd : 3/5/2024 6:57 am Instrument : SV128
Sample : WG1892213-3,32,,ICV 10475 Quant Date : 3/5/2024 7:16 am

Compound #37: Benzo[b]fluoranthene



Original Peak Response = 4366



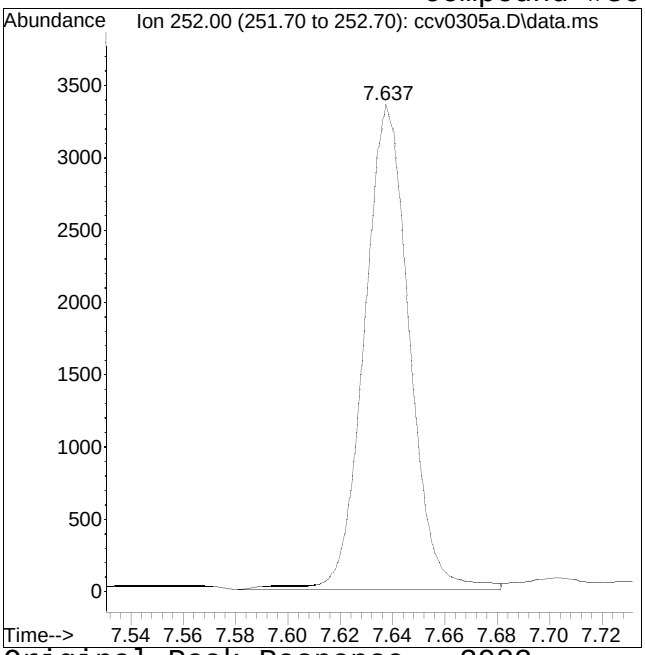
Manual Peak Response = 4365 M6

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

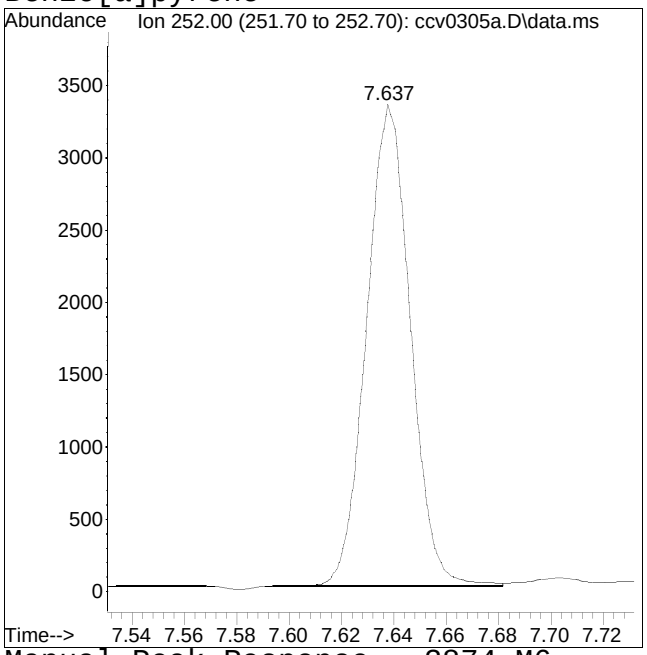
Manual Integration Report

Data Path : I:\8270SIM\SV128\240305\ QMethod : SIM-LVI_231211_sv128.M
Data File : ccv0305a.D Operator : SV128:jjw
Date Inj'd : 3/5/2024 6:57 am Instrument : SV128
Sample : WG1892213-3,32,,ICV 10475 Quant Date : 3/5/2024 7:16 am

Compound #39: Benzo[a]pyrene



Original Peak Response = 3983



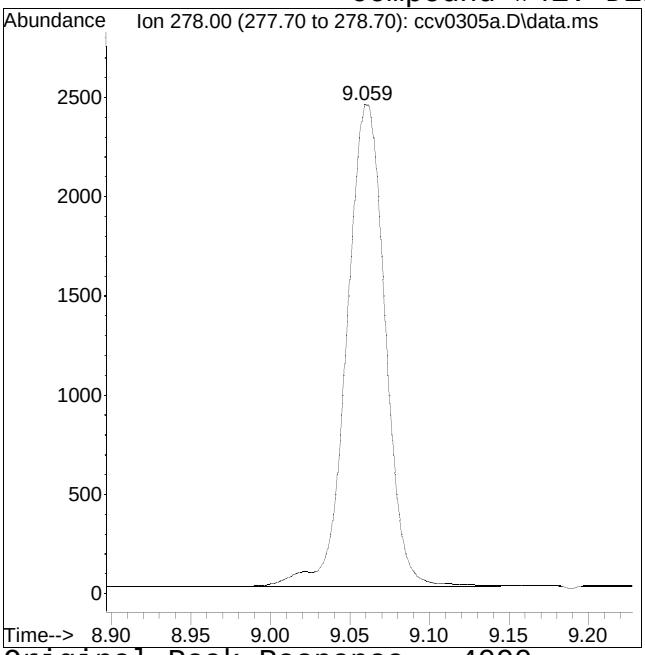
Manual Peak Response = 3874 M6

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

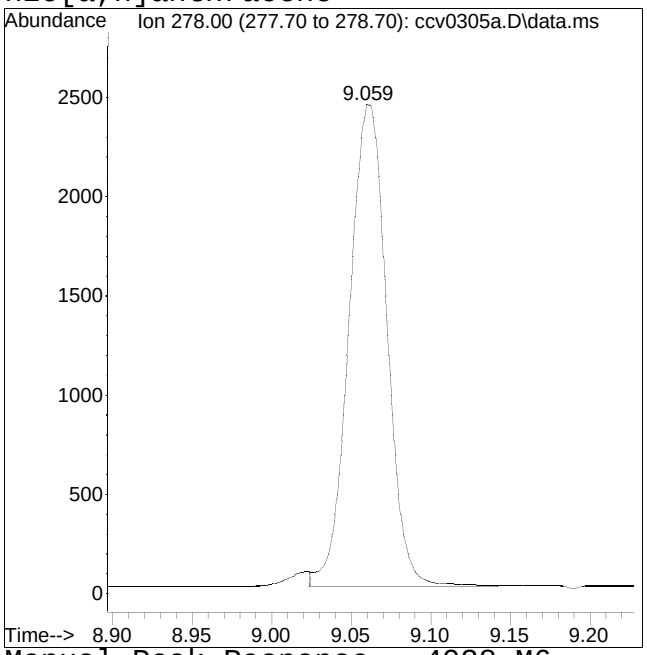
Manual Integration Report

Data Path : I:\8270SIM\SV128\240305\ QMethod : SIM-LVI_231211_sv128.M
Data File : ccv0305a.D Operator : SV128:jjw
Date Inj'd : 3/5/2024 6:57 am Instrument : SV128
Sample : WG1892213-3,32,,ICV 10475 Quant Date : 3/5/2024 7:16 am

Compound #41: Dibenzo[a,h]anthracene



Original Peak Response = 4090



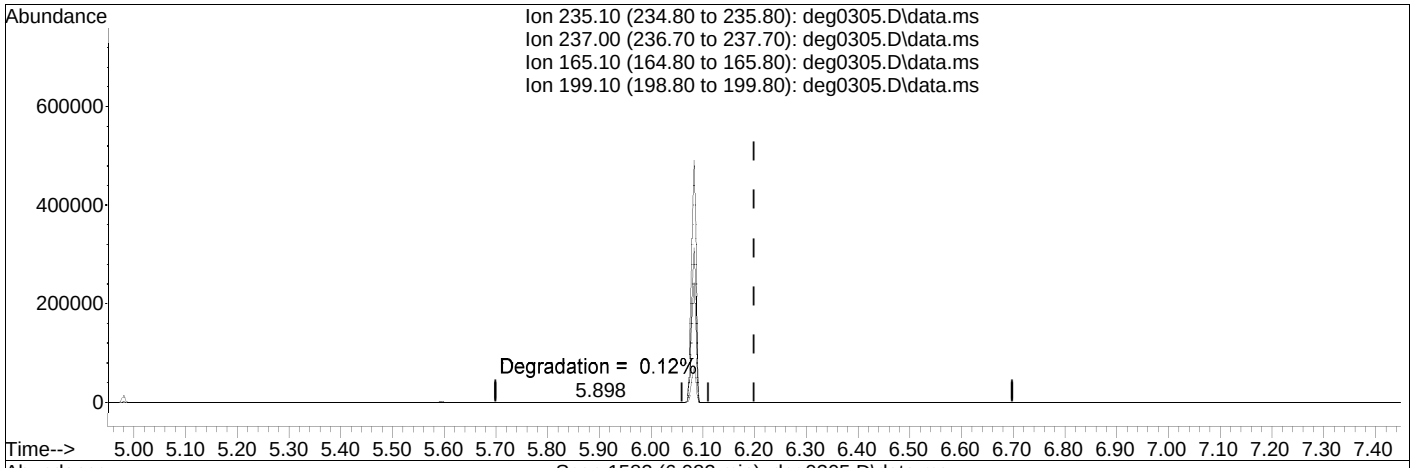
Manual Peak Response = 4028 M6

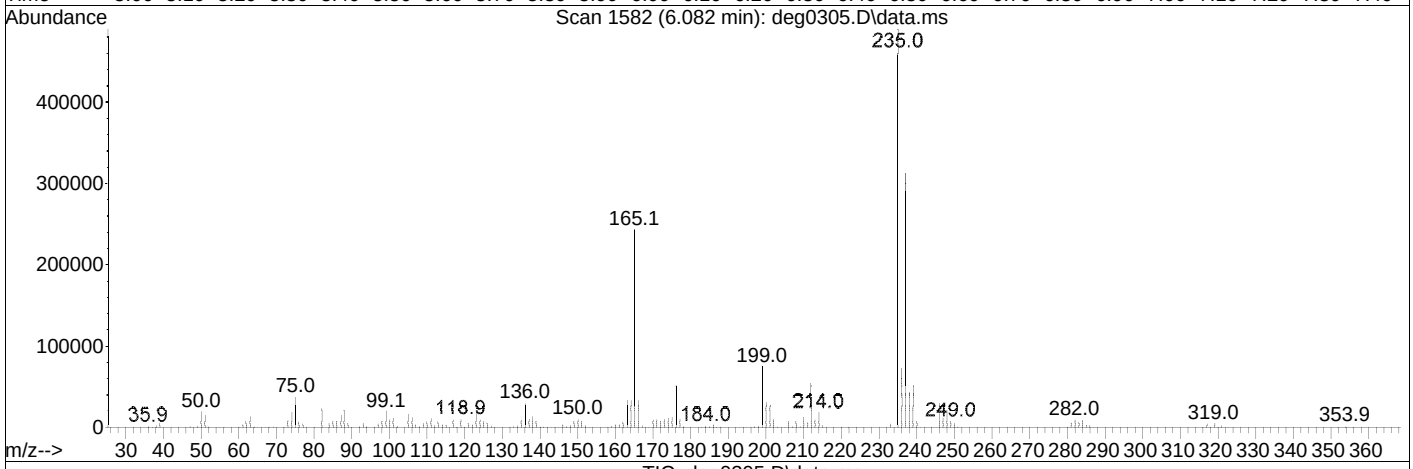
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (Qedit)

Data Path : I:\8270SIM\SV128\240305\
Data File : deg0305.D
Acq On : 05 Mar 2024 06:22 am
Operator : SV128:jjw
Sample : WG1892213-2,32,, dftpp sv128
Misc : WG1892213,,ical20676
ALS Vial : 48 Sample Multiplier: 1

Quant Time: Mar 05 06:35:49 2024
Quant Method : I:\8270SIM\SV128\240305\dftppsv128.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Feb 24 14:20:46 2024
Response via : Continuing Cal File: C:\ENVDEMO\BNADATA\DLWB002.D





TIC: deg0305.D\data.ms

(6) ddt (T)

6.082min (-0.117) 45.18

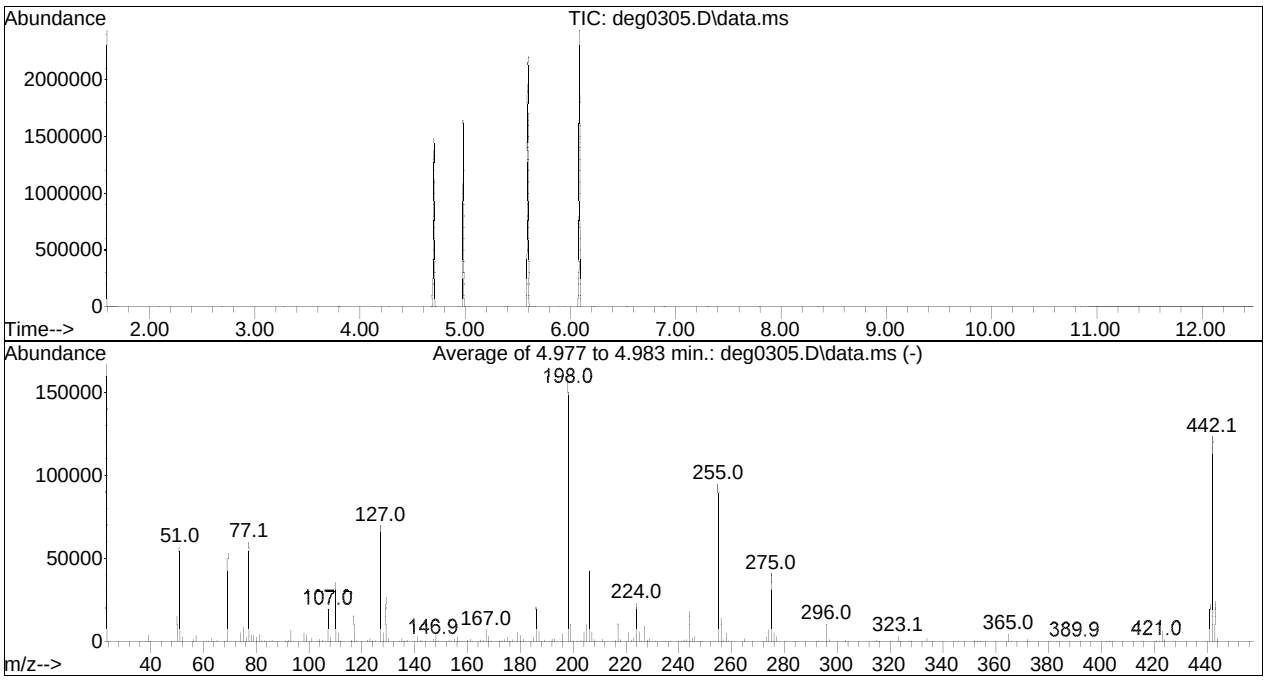
response 275408

Ion	Exp%	Act%
235.10	100.00	100.00
237.00	65.60	64.12
165.10	53.30	49.31
199.10	17.10	15.16

Data Path : I:\8270SIM\SV128\240305\
Data File : deg0305.D
Acq On : 05 Mar 2024 06:22 am
Operator : SV128:jjw
Sample : WG1892213-1,32,, dftpp sv128
Misc : WG1892213,,ical20676
ALS Vial : 48 Sample Multiplier: 1

Integration File: rteint.p

Method : I:\8270SIM\SV128\240305\SIM-LVI_231211_sv128.M
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Tue Mar 05 07:15:56 2024



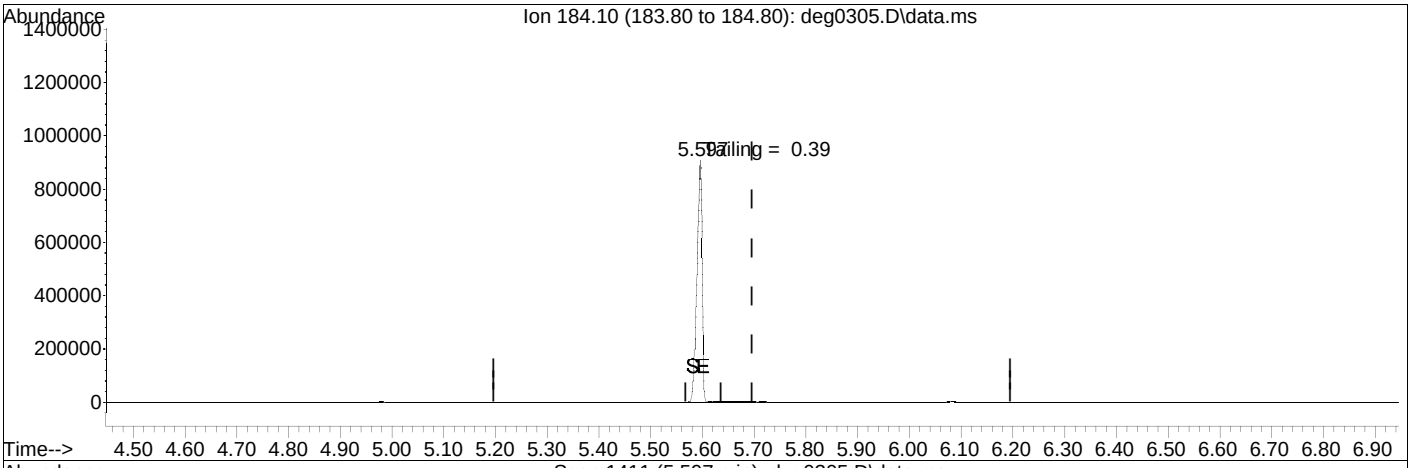
Spectrum Information: Average of 4.977 to 4.983 min.

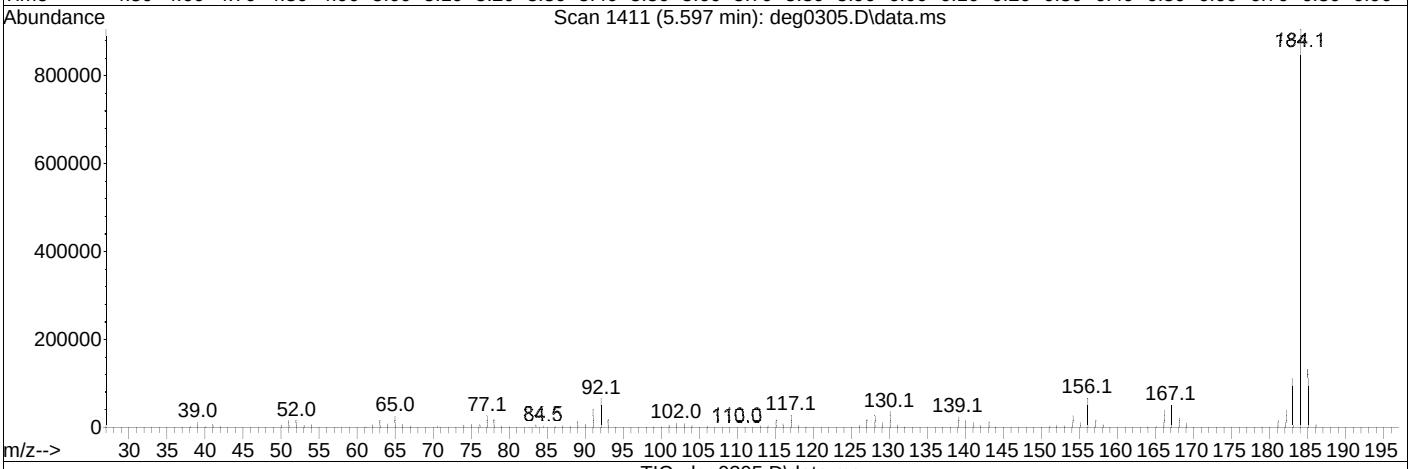
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	35.7	56699	PASS
68	69	0.00	2	0.5	272	PASS
69	69	100	100	100.0	52704	PASS
70	69	0.00	2	0.5	256	PASS
127	198	10	80	43.9	69744	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	158899	PASS
199	198	5	9	6.6	10547	PASS
275	198	10	60	25.5	40531	PASS
365	198	1	100	2.9	4591	PASS
441	442	0.01	24	18.1	22291	PASS
442	198	50	100	77.6	123245	PASS
443	442	15	24	19.6	24197	PASS

Quantitation Report (Qedit)

Data Path : I:\8270SIM\SV128\240305\
Data File : deg0305.D
Acq On : 05 Mar 2024 06:22 am
Operator : SV128:jjw
Sample : WG1892213-4,32,, dftpp sv128
Misc : WG1892213,,ical20676
ALS Vial : 48 Sample Multiplier: 1

Quant Time: Mar 05 06:35:49 2024
Quant Method : I:\8270SIM\SV128\240305\dftppsv128.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Feb 24 14:20:46 2024
Response via : Continuing Cal File: C:\ENVDEMO\BNADATA\DLWB002.D





TIC: deg0305.D\data.ms

(3) benzidine (T)

5.597min (-0.099) 59.28

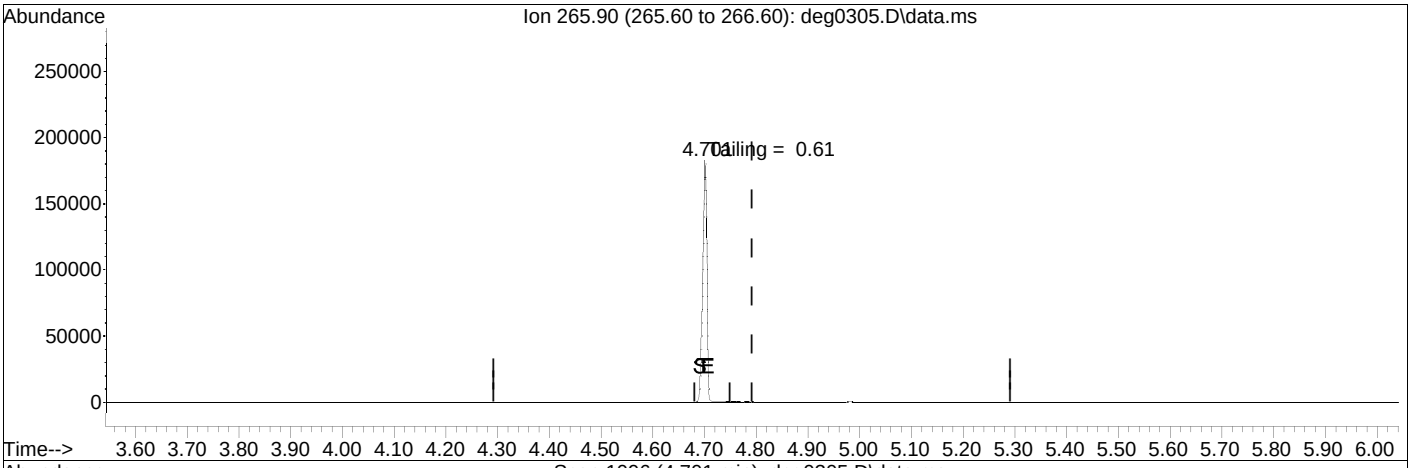
response 603447

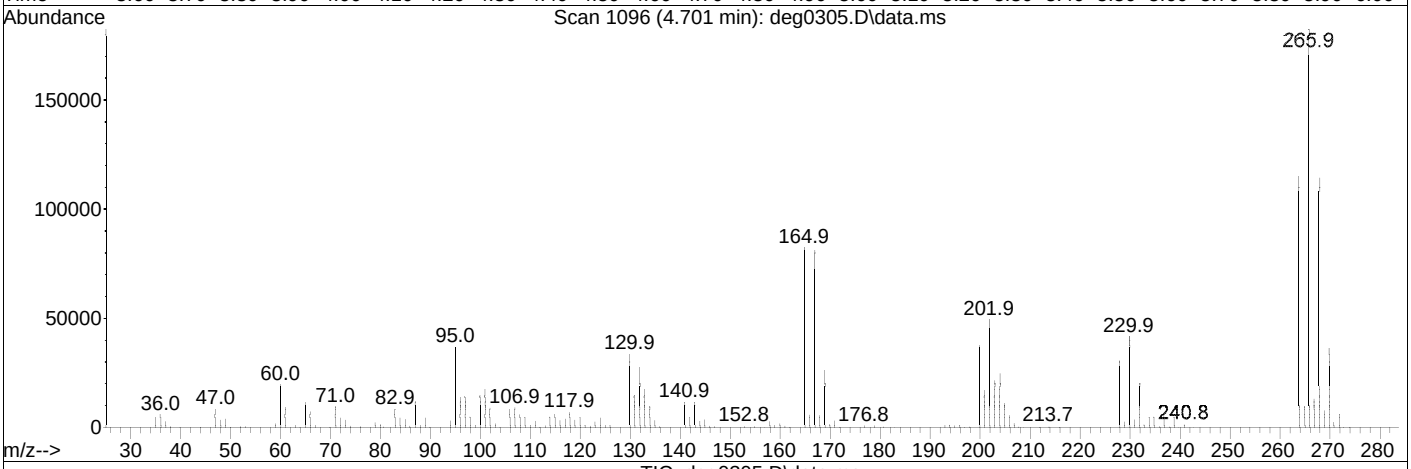
Ion	Exp%	Act%
184.10	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\8270SIM\SV128\240305\
Data File : deg0305.D
Acq On : 05 Mar 2024 06:22 am
Operator : SV128:jjw
Sample : WG1892213-5,32,, dftpp sv128
Misc : WG1892213,,ical20676
ALS Vial : 48 Sample Multiplier: 1

Quant Time: Mar 05 06:35:49 2024
Quant Method : I:\8270SIM\SV128\240305\dftppsv128.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Feb 24 14:20:46 2024
Response via : Continuing Cal File: C:\ENVDEMO\BNADATA\DLWB002.D





TIC: deg0305.D\data.ms

(1) pentachlorophenol (T)

4.701min (-0.091) 43.73

response 91841

Ion	Exp%	Act%
265.90	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Alpha Geoscience	**Lab Number**	: L2410579		
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116		
Instrument ID	: SV128	**Calibration Date**	: 03/03/24 07:58		
Lab File ID	: CCV0303	**Init. Calib. Date(s)**	: 12/11/23	12/13/23	
Sample No	: WG1891581-3	**Init. Calib. Times**	: 13:27	07:14	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,4-Dichlorobenzene-d4	1	1	.05	0	20	89	0
2-Fluorophenol	1.007	1.022	.05	-1.5	20	85	0
Phenol-d6	1.177	1.276	.05	-8.4	20	91	0
Bis(2-chloroethyl)ether	1.005	1.046	.05	-4.1	20	91	0
n-nitrosodi-n-propylamine	0.702	0.719	.05	-2.4	20	86	0
Hexachloroethane	0.478	0.472	.05	1.3	20	85	0
Nitrobenzene-d5	0.951	1.137	.05	-19.6	20	99	0
Naphthalene-d8	1	1	.05	0	20	89	0
Naphthalene	1.026	1.033	.05	-0.7	20	87	0
Hexachlorobutadiene	0.235	0.236	.05	-0.4	20	89	0
2-Methylnaphthalene	0.655	0.692	.05	-5.6	20	89	0
1-Methylnaphthalene	0.617	0.658	.05	-6.6	20	90	0
2-Fluorobiphenyl	0.848	0.932	.05	-9.9	20	91	0
2-Chloronaphthalene	0.713	0.761	.05	-6.7	20	89	0
2,6-Dinitrotoluene	1000	1328.905	.05	-32.9*	20	124	0
Acenaphthylene	1.057	1.163	.05	-10	20	90	0
Acenaphthene-d10	1	1	.05	0	20	94	0
Acenaphthene	1.352	1.345	.05	0.5	20	91	0
2,4-Dinitrotoluene	1000	1285.041	.05	-28.5*	20	131	0
Fluorene	1.365	1.452	.05	-6.4	20	94	0
2,4,6-Tribromophenol	0.2	0.243	.05	-21.5*	20	108	0
Phenanthrene-d10	1	1	.05	0	20	97	0
4,6-Dinitro-o-cresol	1000	1105.449	.05	-10.5	20	125	0
Hexachlorobenzene	0.266	0.248	.05	6.8	20	91	0
Pentachlorophenol	1000	962.628	.05	3.7	20	90	0
Phenanthrene	1.082	1.025	.05	5.3	20	91	0
Anthracene	1.045	1.077	.05	-3.1	20	98	0
Fluoranthene	1.188	1.256	.05	-5.7	20	97	0
Pyrene	1.23	1.34	.05	-8.9	20	97	0
4-Terphenyl-d14	0.833	0.923	.05	-10.8	20	99	0
Chrysene-d12	1	1	.05	0	20	98	0
Benzo[a]anthracene	1000	951.689	.05	4.8	20	95	0
3,3'-Dichlorobenzidine	1000	902.375	.05	9.8	20	97	0
Chrysene	1.379	1.369	.05	0.7	20	94	0
Bis(2-ethylhexyl)phthalate	1000	961.789	.05	3.8	20	110	0
Perylene-d12	1	1	.05	0	20	90	0
Benzo[b]fluoranthene	1.239	1.236	.05	0.2	20	89	0
Benzo[k]fluoranthene	1.153	1.204	.05	-4.4	20	92	0
Benzo[a]pyrene	1.091	1.121	.05	-2.7	20	89	0
Indeno[1,2,3-cd]pyrene	1.091	1.058	.05	3	20	84	0
Dibenzo[a,h]anthracene	1.059	1.087	.05	-2.6	20	84	0
Benzo[g,h,i]perylene	1.134	1.047	.05	7.7	20	77	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Alpha Geoscience	**Lab Number**	: L2410579		
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116		
Instrument ID	: SV119	**Calibration Date**	: 03/04/24 07:40		
Lab File ID	: CCV0304	**Init. Calib. Date(s)**	: 12/07/23	12/07/23	
Sample No	: WG1891805-3	**Init. Calib. Times**	: 13:10	15:42	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,4-Dichlorobenzene-d4	1	1	.05	0	20	88	0
2-Fluorophenol	1.094	1.209	.05	-10.5	20	90	0
Phenol-d6	1.311	1.384	.05	-5.6	20	91	0
Bis(2-chloroethyl)ether	1.115	1.153	.05	-3.4	20	90	0
n-nitrosodi-n-propylamine	0.667	0.678	.05	-1.6	20	86	0
Hexachloroethane	0.495	0.514	.05	-3.8	20	90	0
Nitrobenzene-d5	0.995	1.071	.05	-7.6	20	90	0
Naphthalene-d8	1	1	.05	0	20	86	0
Naphthalene	0.955	0.995	.05	-4.2	20	85	0
Hexachlorobutadiene	0.206	0.232	.05	-12.6	20	92	0
2-Methylnaphthalene	0.706	0.707	.05	-0.1	20	81	0
1-Methylnaphthalene	0.651	0.639	.05	1.8	20	81	0
2-Fluorobiphenyl	0.893	0.869	.05	2.7	20	80	0
2-Chloronaphthalene	0.752	0.739	.05	1.7	20	82	0
2,6-Dinitrotoluene	0.17	0.169	.05	0.6	20	83	0
Acenaphthylene	1.118	1.113	.05	0.4	20	80	0
Acenaphthene-d10	1	1	.05	0	20	84	0
Acenaphthene	1.237	1.258	.05	-1.7	20	80	0
2,4-Dinitrotoluene	0.369	0.394	.05	-6.8	20	82	0
Fluorene	1.478	1.492	.05	-0.9	20	79	0
2,4,6-Tribromophenol	0.221	0.227	.05	-2.7	20	79	0
Phenanthrene-d10	1	1	.05	0	20	81	0
4,6-Dinitro-o-cresol	1000	827.925	.05	17.2	20	71	0
Hexachlorobenzene	0.259	0.252	.05	2.7	20	75	0
Pentachlorophenol	1000	725.011	.05	27.5*	20	61	0
Phenanthrene	1.016	1.007	.05	0.9	20	76	0
Anthracene	1.008	1.025	.05	-1.7	20	78	0
Fluoranthene	1.339	1.287	.05	3.9	20	73	0
Pyrene	1.376	1.325	.05	3.7	20	74	0
4-Terphenyl-d14	0.981	0.761	.05	22.4*	20	61	0
Chrysene-d12	1	1	.05	0	20	69	0
Benzo[a]anthracene	1000	1090.528	.05	-9.1	20	68	0
3,3'-Dichlorobenzidine	0.604	0.572	.05	5.3	20	63	0
Chrysene	1.32	1.412	.05	-7	20	71	0
Bis(2-ethylhexyl)phthalate	1000	819.991	.05	18	20	67	0
Perylene-d12	1	1	.05	0	20	64	0
Benzo[b]fluoranthene	1.397	1.455	.05	-4.2	20	62	0
Benzo[k]fluoranthene	1.327	1.405	.05	-5.9	20	66	0
Benzo[a]pyrene	1.23	1.315	.05	-6.9	20	65	0
Indeno[1,2,3-cd]pyrene	1.337	1.342	.05	-0.4	20	61	0
Dibenzo[a,h]anthracene	1.244	1.185	.05	4.7	20	58	0
Benzo[g,h,i]perylene	1.36	1.328	.05	2.4	20	60	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Alpha Geoscience	**Lab Number**	: L2410579		
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116		
Instrument ID	: SV119	**Calibration Date**	: 03/05/24 06:33		
Lab File ID	: CCV0305	**Init. Calib. Date(s)**	: 12/07/23	12/07/23	
Sample No	: WG1892203-3	**Init. Calib. Times**	: 13:10	15:42	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,4-Dichlorobenzene-d4	1	1	.05	0	20	82	0
2-Fluorophenol	1.094	1.197	.05	-9.4	20	83	0
Phenol-d6	1.311	1.379	.05	-5.2	20	84	0
Bis(2-chloroethyl)ether	1.115	1.152	.05	-3.3	20	83	0
n-nitrosodi-n-propylamine	0.667	0.703	.05	-5.4	20	83	0
Hexachloroethane	0.495	0.52	.05	-5.1	20	84	0
Nitrobenzene-d5	0.995	1.089	.05	-9.4	20	84	0
Naphthalene-d8	1	1	.05	0	20	80	0
Naphthalene	0.955	0.991	.05	-3.8	20	80	0
Hexachlorobutadiene	0.206	0.237	.05	-15	20	88	0
2-Methylnaphthalene	0.706	0.72	.05	-2	20	77	0
1-Methylnaphthalene	0.651	0.644	.05	1.1	20	77	0
2-Fluorobiphenyl	0.893	0.901	.05	-0.9	20	77	0
2-Chloronaphthalene	0.752	0.756	.05	-0.5	20	79	0
2,6-Dinitrotoluene	0.17	0.186	.05	-9.4	20	86	0
Acenaphthylene	1.118	1.158	.05	-3.6	20	78	0
Acenaphthene-d10	1	1	.05	0	20	81	0
Acenaphthene	1.237	1.261	.05	-1.9	20	78	0
2,4-Dinitrotoluene	0.369	0.435	.05	-17.9	20	88	0
Fluorene	1.478	1.522	.05	-3	20	78	0
2,4,6-Tribromophenol	0.221	0.246	.05	-11.3	20	84	0
Phenanthrene-d10	1	1	.05	0	20	83	0
4,6-Dinitro-o-cresol	1000	986.317	.05	1.4	20	88	0
Hexachlorobenzene	0.259	0.255	.05	1.5	20	78	0
Pentachlorophenol	1000	777.078	.05	22.3*	20	67	0
Phenanthrene	1.016	1.022	.05	-0.6	20	79	0
Anthracene	1.008	1.034	.05	-2.6	20	80	0
Fluoranthene	1.339	1.392	.05	-4	20	80	0
Pyrene	1.376	1.438	.05	-4.5	20	82	0
4-Terphenyl-d14	0.981	0.853	.05	13	20	69	0
Chrysene-d12	1	1	.05	0	20	80	0
Benzo[a]anthracene	1000	1124.001	.05	-12.4	20	82	0
3,3'-Dichlorobenzidine	0.604	0.618	.05	-2.3	20	79	0
Chrysene	1.32	1.413	.05	-7	20	83	0
Bis(2-ethylhexyl)phthalate	1000	957.264	.05	4.3	20	92	0
Perylene-d12	1	1	.05	0	20	78	0
Benzo[b]fluoranthene	1.397	1.486	.05	-6.4	20	77	0
Benzo[k]fluoranthene	1.327	1.445	.05	-8.9	20	82	0
Benzo[a]pyrene	1.23	1.364	.05	-10.9	20	81	0
Indeno[1,2,3-cd]pyrene	1.337	1.434	.05	-7.3	20	78	0
Dibenzo[a,h]anthracene	1.244	1.266	.05	-1.8	20	75	0
Benzo[g,h,i]perylene	1.36	1.368	.05	-0.6	20	74	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Alpha Geoscience	**Lab Number**	: L2410579		
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116		
Instrument ID	: SV128	**Calibration Date**	: 03/05/24 06:57		
Lab File ID	: CCV0305A	**Init. Calib. Date(s)**	: 12/11/23	12/13/23	
Sample No	: WG1892213-3	**Init. Calib. Times**	: 13:27	07:14	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,4-Dichlorobenzene-d4	1	1	.05	0	20	52	0
2-Fluorophenol	1.007	0.966	.05	4.1	20	48	0
Phenol-d6	1.177	1.296	.05	-10.1	20	55	0
Bis(2-chloroethyl)ether	1.005	1.094	.05	-8.9	20	56	0
n-nitrosodi-n-propylamine	0.702	0.78	.05	-11.1	20	55	0
Hexachloroethane	0.478	0.463	.05	3.1	20	49	0
Nitrobenzene-d5	0.951	1.199	.05	-26.1*	20	62	0
Naphthalene-d8	1	1	.05	0	20	56	0
Naphthalene	1.026	1.033	.05	-0.7	20	55	0
Hexachlorobutadiene	0.235	0.227	.05	3.4	20	55	0
2-Methylnaphthalene	0.655	0.723	.05	-10.4	20	59	0
1-Methylnaphthalene	0.617	0.672	.05	-8.9	20	59	0
2-Fluorobiphenyl	0.848	0.989	.05	-16.6	20	62	0
2-Chloronaphthalene	0.713	0.828	.05	-16.1	20	62	0
2,6-Dinitrotoluene	1000	1588.617	.05	-58.9*	20	95	0
Acenaphthylene	1.057	1.261	.05	-19.3	20	62	0
Acenaphthene-d10	1	1	.05	0	20	67	0
Acenaphthene	1.352	1.332	.05	1.5	20	64	0
2,4-Dinitrotoluene	1000	1360.545	.05	-36.1*	20	98	0
Fluorene	1.365	1.51	.05	-10.6	20	69	0
2,4,6-Tribromophenol	0.2	0.257	.05	-28.5*	20	80	0
Phenanthrene-d10	1	1	.05	0	20	78	0
4,6-Dinitro-o-cresol	1000	1167.879	.05	-16.8	20	107	0
Hexachlorobenzene	0.266	0.244	.05	8.3	20	72	0
Pentachlorophenol	1000	1028.447	.05	-2.8	20	78	0
Phenanthrene	1.082	1.042	.05	3.7	20	75	0
Anthracene	1.045	1.03	.05	1.4	20	75	0
Fluoranthene	1.188	1.345	.05	-13.2	20	84	0
Pyrene	1.23	1.465	.05	-19.1	20	85	0
4-Terphenyl-d14	0.833	1.023	.05	-22.8*	20	89	0
Chrysene-d12	1	1	.05	0	20	96	0
Benzo[a]anthracene	1000	922.507	.05	7.7	20	90	0
3,3'-Dichlorobenzidine	1000	843.538	.05	15.6	20	88	0
Chrysene	1.379	1.37	.05	0.7	20	92	0
Bis(2-ethylhexyl)phthalate	1000	806.686	.05	19.3	20	89	0
Perylene-d12	1	1	.05	0	20	92	0
Benzo[b]fluoranthene	1.239	1.231	.05	0.6	20	90	0
Benzo[k]fluoranthene	1.153	1.184	.05	-2.7	20	92	0
Benzo[a]pyrene	1.091	1.092	.05	-0.1	20	89	0
Indeno[1,2,3-cd]pyrene	1.091	1.144	.05	-4.9	20	93	0
Dibenzo[a,h]anthracene	1.059	1.136	.05	-7.3	20	90	0
Benzo[g,h,i]perylene	1.134	1.127	.05	0.6	20	85	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Alpha Geoscience	**Lab Number**	: L2410579		
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116		
Instrument ID	: SV119	**Calibration Date**	: 03/05/24 21:16		
Lab File ID	: CCV0305N	**Init. Calib. Date(s)**	: 12/07/23	12/07/23	
Sample No	: WG1892573-3	**Init. Calib. Times**	: 13:10	15:42	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,4-Dichlorobenzene-d4	1	1	.05	0	20	87	0
2-Fluorophenol	1.094	1.149	.05	-5	20	85	0
Phenol-d6	1.311	1.357	.05	-3.5	20	88	0
Bis(2-chloroethyl)ether	1.115	1.12	.05	-0.4	20	87	0
n-nitrosodi-n-propylamine	0.667	0.708	.05	-6.1	20	89	0
Hexachloroethane	0.495	0.496	.05	-0.2	20	86	0
Nitrobenzene-d5	0.995	1.105	.05	-11.1	20	92	0
Naphthalene-d8	1	1	.05	0	20	88	0
Naphthalene	0.955	0.957	.05	-0.2	20	84	0
Hexachlorobutadiene	0.206	0.221	.05	-7.3	20	89	0
2-Methylnaphthalene	0.706	0.704	.05	0.3	20	82	0
1-Methylnaphthalene	0.651	0.629	.05	3.4	20	81	0
2-Fluorobiphenyl	0.893	0.868	.05	2.8	20	81	0
2-Chloronaphthalene	0.752	0.739	.05	1.7	20	84	0
2,6-Dinitrotoluene	0.17	0.19	.05	-11.8	20	95	0
Acenaphthylene	1.118	1.132	.05	-1.3	20	84	0
Acenaphthene-d10	1	1	.05	0	20	90	0
Acenaphthene	1.237	1.214	.05	1.9	20	84	0
2,4-Dinitrotoluene	0.369	0.441	.05	-19.5	20	99	0
Fluorene	1.478	1.492	.05	-0.9	20	85	0
2,4,6-Tribromophenol	0.221	0.244	.05	-10.4	20	92	0
Phenanthrene-d10	1	1	.05	0	20	95	0
4,6-Dinitro-o-cresol	1000	1010.711	.05	-1.1	20	104	0
Hexachlorobenzene	0.259	0.244	.05	5.8	20	86	0
Pentachlorophenol	1000	826.978	.05	17.3	20	82	0
Phenanthrene	1.016	0.982	.05	3.3	20	88	0
Anthracene	1.008	0.978	.05	3	20	87	0
Fluoranthene	1.339	1.333	.05	0.4	20	89	0
Pyrene	1.376	1.368	.05	0.6	20	91	0
4-Terphenyl-d14	0.981	0.806	.05	17.8	20	76	0
Chrysene-d12	1	1	.05	0	20	91	0
Benzo[a]anthracene	1000	1066.469	.05	-6.6	20	87	0
3,3'-Dichlorobenzidine	0.604	0.602	.05	0.3	20	87	0
Chrysene	1.32	1.345	.05	-1.9	20	89	0
Bis(2-ethylhexyl)phthalate	1000	913.333	.05	8.7	20	99	0
Perylene-d12	1	1	.05	0	20	85	0
Benzo[b]fluoranthene	1.397	1.45	.05	-3.8	20	82	0
Benzo[k]fluoranthene	1.327	1.368	.05	-3.1	20	84	0
Benzo[a]pyrene	1.23	1.304	.05	-6	20	85	0
Indeno[1,2,3-cd]pyrene	1.337	1.374	.05	-2.8	20	82	0
Dibenzo[a,h]anthracene	1.244	1.198	.05	3.7	20	77	0
Benzo[g,h,i]perylene	1.36	1.301	.05	4.3	20	77	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Alpha Geoscience	**Lab Number**	: L2410579		
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116		
Instrument ID	: SV119	**Calibration Date**	: 03/06/24 06:56		
Lab File ID	: CCV0306	**Init. Calib. Date(s)**	: 12/07/23	12/07/23	
Sample No	: WG1892736-3	**Init. Calib. Times**	: 13:10	15:42	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,4-Dichlorobenzene-d4	1	1	.05	0	20	105	0
2-Fluorophenol	1.094	1.188	.05	-8.6	20	105	0
Phenol-d6	1.311	1.43	.05	-9.1	20	112	0
Bis(2-chloroethyl)ether	1.115	1.206	.05	-8.2	20	112	0
n-nitrosodi-n-propylamine	0.667	0.772	.05	-15.7	20	116	0
Hexachloroethane	0.495	0.53	.05	-7.1	20	110	0
Nitrobenzene-d5	0.995	1.187	.05	-19.3	20	118	0
Naphthalene-d8	1	1	.05	0	20	107	0
Naphthalene	0.955	0.997	.05	-4.4	20	107	0
Hexachlorobutadiene	0.206	0.233	.05	-13.1	20	115	0
2-Methylnaphthalene	0.706	0.743	.05	-5.2	20	106	0
1-Methylnaphthalene	0.651	0.662	.05	-1.7	20	105	0
2-Fluorobiphenyl	0.893	0.927	.05	-3.8	20	106	0
2-Chloronaphthalene	0.752	0.777	.05	-3.3	20	107	0
2,6-Dinitrotoluene	0.17	0.208	.05	-22.4*	20	128	0
Acenaphthylene	1.118	1.217	.05	-8.9	20	110	0
Acenaphthene-d10	1	1	.05	0	20	110	0
Acenaphthene	1.237	1.278	.05	-3.3	20	107	0
2,4-Dinitrotoluene	0.369	0.477	.05	-29.3*	20	130	0
Fluorene	1.478	1.582	.05	-7	20	110	0
2,4,6-Tribromophenol	0.221	0.262	.05	-18.6	20	120	0
Phenanthrene-d10	1	1	.05	0	20	113	0
4,6-Dinitro-o-cresol	1000	1092.793	.05	-9.3	20	134	0
Hexachlorobenzene	0.259	0.261	.05	-0.8	20	108	0
Pentachlorophenol	1000	934.627	.05	6.5	20	110	0
Phenanthrene	1.016	1.023	.05	-0.7	20	108	0
Anthracene	1.008	1.04	.05	-3.2	20	110	0
Fluoranthene	1.339	1.377	.05	-2.8	20	109	0
Pyrene	1.376	1.401	.05	-1.8	20	110	0
4-Terphenyl-d14	0.981	0.829	.05	15.5	20	92	0
Chrysene-d12	1	1	.05	0	20	100	0
Benzo[a]anthracene	1000	1144.104	.05	-14.4	20	104	0
3,3'-Dichlorobenzidine	0.604	0.645	.05	-6.8	20	103	0
Chrysene	1.32	1.412	.05	-7	20	104	0
Bis(2-ethylhexyl)phthalate	1000	1011.732	.05	-1.2	20	122	0
Perylene-d12	1	1	.05	0	20	89	0
Benzo[b]fluoranthene	1.397	1.604	.05	-14.8	20	95	0
Benzo[k]fluoranthene	1.327	1.435	.05	-8.1	20	93	0
Benzo[a]pyrene	1.23	1.405	.05	-14.2	20	96	0
Indeno[1,2,3-cd]pyrene	1.337	1.455	.05	-8.8	20	91	0
Dibenzo[a,h]anthracene	1.244	1.243	.05	0.1	20	85	0
Benzo[g,h,i]perylene	1.36	1.337	.05	1.7	20	84	0

*** Value outside of QC limits.**

Evaluate Continuing Calibration Report

Data Path : I:\8270SIM\sv119\240305nLVI\
Data File : ccv0305n.D
Acq On : 05 Mar 2024 09:16 pm
Operator : sv119:ah
Sample : WG1892573-3,32,, ICV 10475 (02/25)
Misc : WG1892573,,ical20642
ALS Vial : 49 Sample Multiplier: 1

Quant Time: Mar 05 22:21:32 2024
Quant Method : I:\8270SIM\sv119\240305nLVI\SIM-LVI_231207n_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Mar 05 22:21:54 2024
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	i	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	87	0.00
2	s	2-Fluorophenol	1.094	1.149	-5.0	85	0.00
3	s	Phenol-d6	1.311	1.357	-3.5	88	0.00
4	T	Bis(2-chloroethyl)ether	1.115	1.120	-0.4	87	0.00
5	T	n-nitrosodi-n-propylamine	0.667	0.708	-6.1	89	0.00
6	t	Hexachloroethane	0.495	0.496	-0.2	86	0.00
7	s	Nitrobenzene-d5	0.995	1.105	-11.1	92	0.00
8	i	Naphthalene-d8	1.000	1.000	0.0	88	0.00
9	t	Naphthalene	0.955	0.957	-0.2	84	0.00
10	t	Hexachlorobutadiene	0.206	0.221	-7.3	89	0.00
11	t	2-Methylnaphthalene	0.706	0.704	0.3	82	0.00
12	t	1-Methylnaphthalene	0.651	0.629	3.4	81	0.00
13	s	2-Fluorobiphenyl	0.893	0.868	2.8	81	0.00
14	t	2-Chloronaphthalene	0.752	0.739	1.7	84	0.00
15	t	2,6-Dinitrotoluene	0.170	0.190	-11.8	95	0.00
16	t	Acenaphthylene	1.118	1.132	-1.3	84	0.00
17	i	Acenaphthene-d10	1.000	1.000	0.0	90	0.00
18	t	Acenaphthene	1.237	1.214	1.9	84	0.00
19	t	2,4-Dinitrotoluene	0.369	0.441	-19.5	99	0.00
20	t	Fluorene	1.478	1.492	-0.9	85	0.00
21	s	2,4,6-Tribromophenol	0.221	0.244	-10.4	92	0.00
22	i	Phenanthrene-d10	1.000	1.000	0.0	95	0.00
23	T	4,6-Dinitro-o-cresol	*1000.000	1010.711	-1.1	104	0.00
24	t	Hexachlorobenzene	0.259	0.244	5.8	86	0.00
25	t	Pentachlorophenol	*1000.000	826.978	17.3	82	0.00
26	t	Phenanthrene	1.016	0.982	3.3	88	0.00
27	t	Anthracene	1.008	0.978	3.0	87	0.00
28	t	Fluoranthene	1.339	1.333	0.4	89	0.00
29	t	Pyrene	1.376	1.368	0.6	91	0.00
30	s	4-Terphenyl-d14	0.981	0.806	17.8	76	0.00
31	i	Chrysene-d12	1.000	1.000	0.0	91	0.00
32	t	Benzo[a]anthracene	*1000.000	1066.469	-6.6	87	0.00
33	t	3,3'-Dichlorobenzidine	0.604	0.602	0.3	87	0.00
34	t	Chrysene	1.320	1.345	-1.9	89	0.00
35	T	Bis(2-ethylhexyl)phthalate	*1000.000	913.333	8.7	99	0.00

Evaluate Continuing Calibration Report

Data Path : I:\8270SIM\sv119\240305nLVI\
Data File : ccv0305n.D
Acq On : 05 Mar 2024 09:16 pm
Operator : sv119:ah
Sample : WG1892573-3,32,, ICV 10475 (02/25)
Misc : WG1892573,,ical20642
ALS Vial : 49 Sample Multiplier: 1

Quant Time: Mar 05 22:21:32 2024
Quant Method : I:\8270SIM\sv119\240305nLVI\SIM-LVI_231207n_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Mar 05 22:21:54 2024
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
36	i	Perylene-d12	1.000	1.000	0.0	85	0.00
37	t	Benzo[b]fluoranthene	1.397	1.450	-3.8	82	0.00
38	t	Benzo[k]fluoranthene	1.327	1.368	-3.1	84	0.00
39	t	Benzo[a]pyrene	1.230	1.304	-6.0	85	0.00
40	t	Indeno[1,2,3-cd]pyrene	1.337	1.374	-2.8	82	0.00
41	t	Dibenzo[a,h]anthracene	1.244	1.198	3.7	77	0.00
42	t	Benzo[g,h,i]perylene	1.360	1.301	4.3	77	0.00

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\240305nLVI\
Data File : ccv0305n.D
Acq On : 05 Mar 2024 09:16 pm
Operator : sv119:ah
Sample : WG1892573-3,32,, ICV 10475 (02/25)
Misc : WG1892573,,ical20642
ALS Vial : 49 Sample Multiplier: 1

Quant Time: Mar 05 22:21:32 2024
Quant Method : I:\8270SIM\sv119\240305nLVI\SIM-LVI_231207n_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Mar 05 22:21:54 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.137	152	38606	4000.000	ng/ml	0.00
8) Naphthalene-d8	2.798	136	135686	4000.000	ng/ml	0.00
17) Acenaphthene-d10	3.766	164	79962	4000.000	ng/ml	0.00
22) Phenanthrene-d10	4.597	188	190107	4000.000	ng/ml	0.00
31) Chrysene-d12	6.176	240	179316	4000.000	ng/ml	0.00
36) Perylene-d12	7.292	264	182003	4000.000	ng/ml	0.00
System Monitoring Compounds						
2) 2-Fluorophenol	1.542	112	11087	1049.967	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 21.00%			
3) Phenol-d6	1.955	99	13094	1034.489	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 20.69%			
7) Nitrobenzene-d5	2.418	82	10666	1110.902	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 44.44%			
13) 2-Fluorobiphenyl	3.393	172	29428	971.095	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 38.84%			
21) 2,4,6-Tribromophenol	4.207	330	4868	1104.247	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 22.08%			
30) 4-Terphenyl-d14	5.528	244	38283	821.454	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 32.86%			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	2.001	93	10806	1003.864	ng/ml	97
5) n-nitrosodi-n-propylamine	2.339	70	6837	1061.974	ng/ml	94
6) Hexachloroethane	2.395	117	4787	1002.340	ng/ml	82
9) Naphthalene	2.809	128	32455	1001.725	ng/ml	100
10) Hexachlorobutadiene	2.883	225	7507	1075.901	ng/ml	100
11) 2-Methylnaphthalene	3.188	142	23871	996.472	ng/ml	96
12) 1-Methylnaphthalene	3.243	142	21322	965.199	ng/ml	97
14) 2-Chloronaphthalene	3.457	162	25073	982.578	ng/ml	96
15) 2,6-Dinitrotoluene	3.648	165	6431	1116.098	ng/ml#	76
16) Acenaphthylene	3.686	152	38413	1012.987	ng/ml	99
18) Acenaphthene	3.784	153	24269	981.763	ng/ml	98
19) 2,4-Dinitrotoluene	3.874	165	8823	1197.122	ng/ml#	79
20) Fluorene	4.071	166	29831	1009.583	ng/ml	97
23) 4,6-Dinitro-o-cresol	4.102	198	5541	1010.711	ng/ml	96
24) Hexachlorobenzene	4.384	284	11602	944.022	ng/ml	95
25) Pentachlorophenol	4.497	266	6414	826.978	ng/ml	98
26) Phenanthrene	4.609	178	46684	966.733	ng/ml	100
27) Anthracene	4.639	178	46473	970.454	ng/ml	100

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\240305nLVI\
Data File : ccv0305n.D
Acq On : 05 Mar 2024 09:16 pm
Operator : sv119:ah
Sample : WG1892573-3,32,, ICV 10475 (02/25)
Misc : WG1892573,,ical20642
ALS Vial : 49 Sample Multiplier: 1

Quant Time: Mar 05 22:21:32 2024
Quant Method : I:\8270SIM\sv119\240305nLVI\SIM-LVI_231207n_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Mar 05 22:21:54 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
28) Fluoranthene	5.294	202	63354	995.430	ng/ml	96
29) Pyrene	5.427	202	65008	994.221	ng/ml	98
32) Benzo[a]anthracene	6.169	228	64096	1066.469	ng/ml	99
33) 3,3'-Dichlorobenzidine	6.161	252	27003	996.758	ng/ml	99
34) Chrysene	6.191	228	60305	1018.992	ng/ml	99
35) Bis(2-ethylhexyl)phtha...	6.208	149	35760	913.333	ng/ml	97
37) Benzo[b]fluoranthene	6.946	252	65978	1037.654	ng/ml	98
38) Benzo[k]fluoranthene	6.971	252	62228	1030.663	ng/ml	98
39) Benzo[a]pyrene	7.234	252	59329	1060.060	ng/ml	100
40) Indeno[1,2,3-cd]pyrene	8.420	276	62522	1027.862	ng/ml	99
41) Dibenzo[a,h]anthracene	8.456	278	54529	963.523	ng/ml	99
42) Benzo[g,h,i]perylene	8.739	276	59207	956.911	ng/ml	99

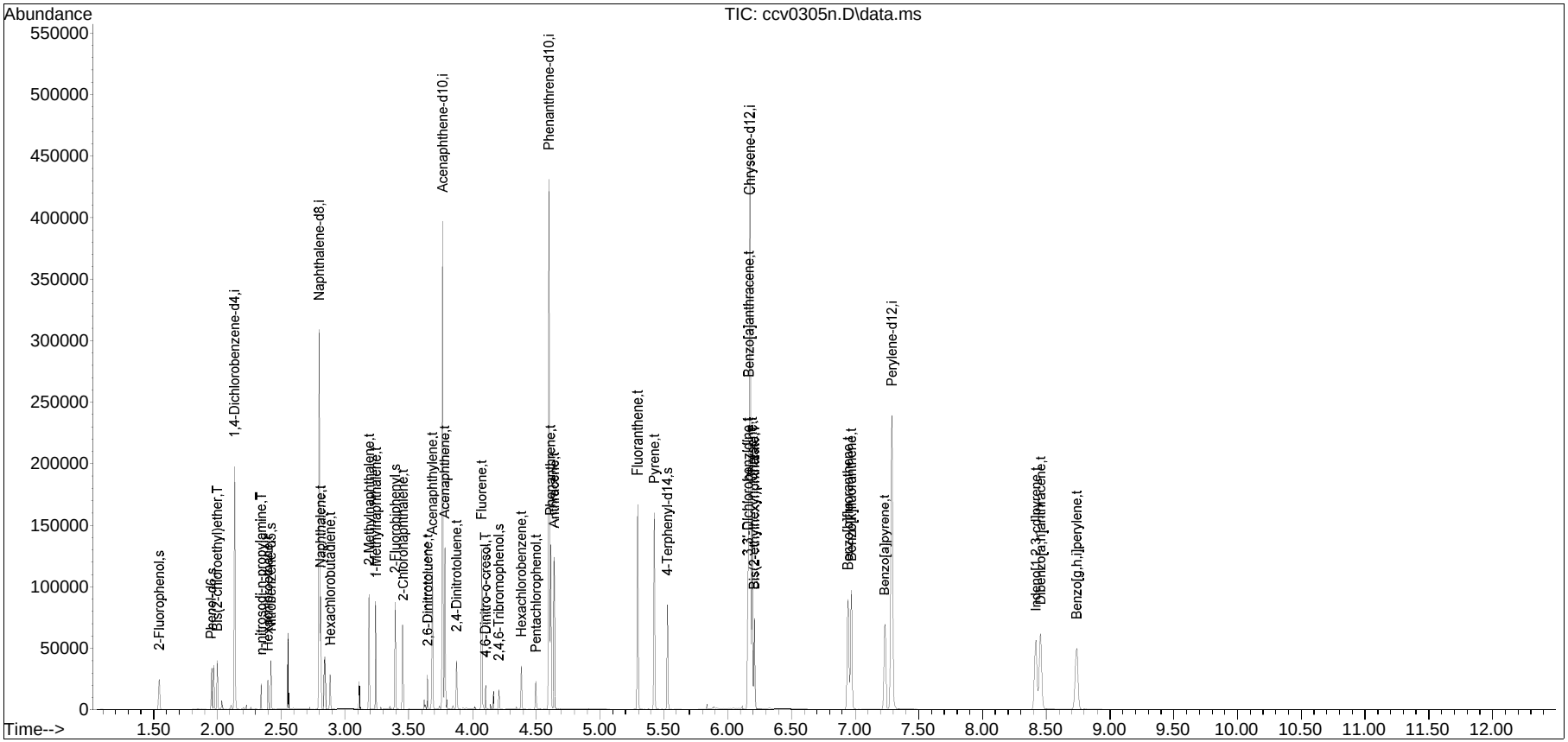
(#) = qualifier out of range (m) = manual integration (+) = signals summed

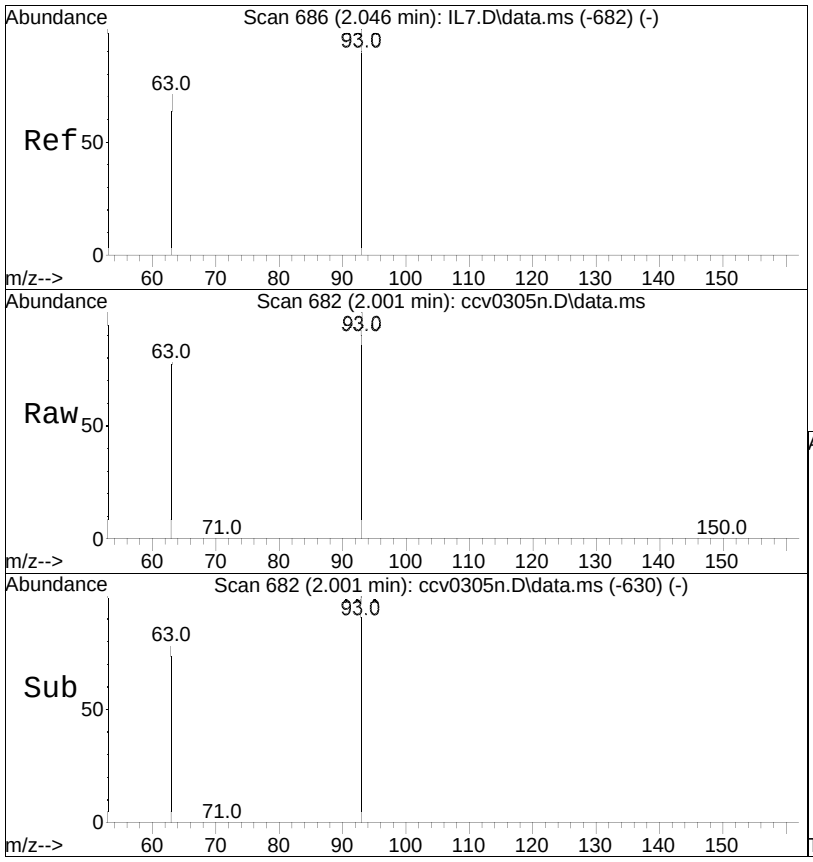
Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\240305nLVI\
Data File : ccv0305n.D
Acq On : 05 Mar 2024 09:16 pm
Operator : sv119:ah
Sample : WG1892573-3,32,, ICV 10475 (02/25)
Misc : WG1892573,,ical20642
ALS Vial : 49 Sample Multiplier: 1

Quant Time: Mar 05 22:21:32 2024
Quant Method : I:\8270SIM\sv119\240305nLVI\SIM-LVI_231207n_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Mar 05 22:21:54 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

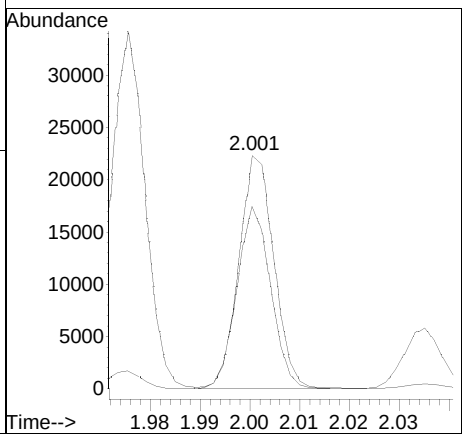


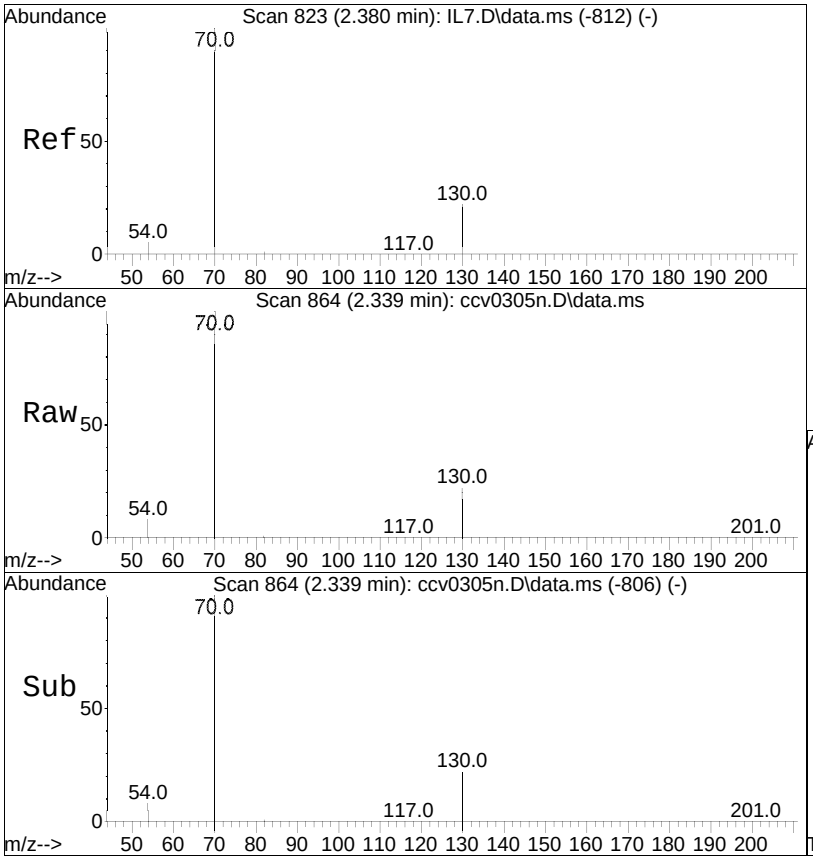


#4
Bis(2-chloroethyl)ether
Concen: 1003.86 ng/ml
RT: 2.001 min Scan# 682
Delta R.T. 0.000 min
Lab File: ccv0305n.D
Acq: 05 Mar 2024 09:16 pm

Tgt Ion: 93 Resp: 10806

Ion	Ratio	Lower	Upper
93	100		
63	75.7	62.6	94.0

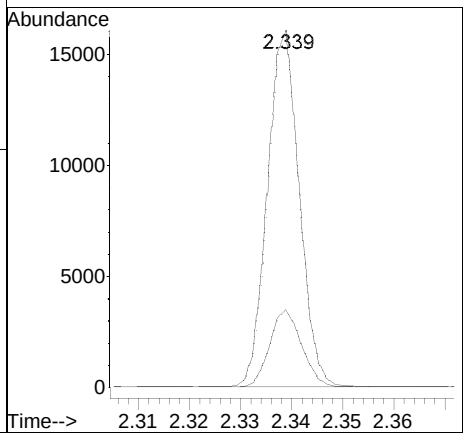


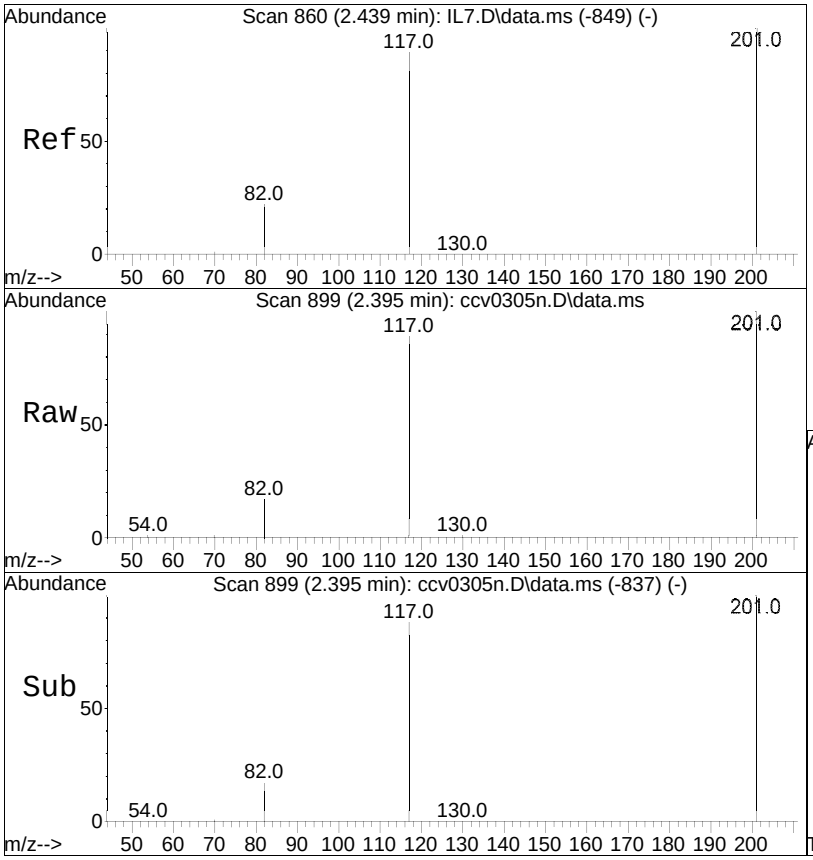


#5
n-nitrosodi-n-propylamine
Concen: 1061.97 ng/ml
RT: 2.339 min Scan# 864
Delta R.T. 0.000 min
Lab File: ccv0305n.D
Acq: 05 Mar 2024 09:16 pm

Tgt Ion: 70 Resp: 6837

Ion	Ratio	Lower	Upper
70	100		
130	21.7	15.0	22.6

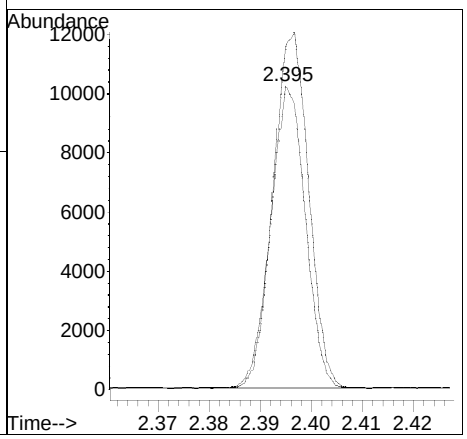


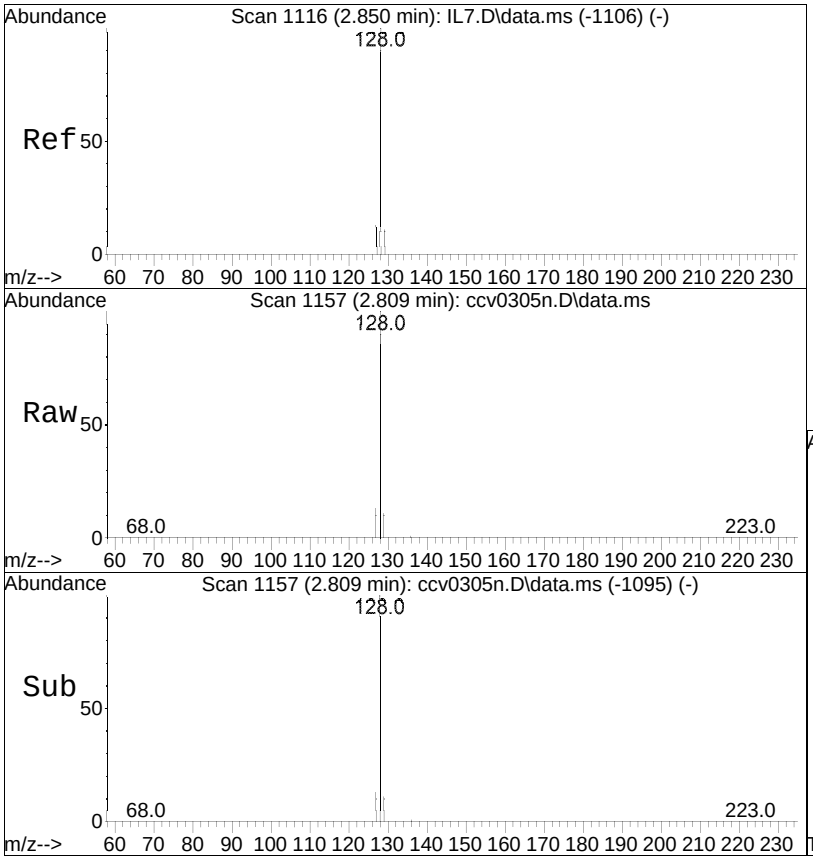


#6
Hexachloroethane
Concen: 1002.34 ng/ml
RT: 2.395 min Scan# 899
Delta R.T. 0.000 min
Lab File: ccv0305n.D
Acq: 05 Mar 2024 09:16 pm

Tgt Ion:117 Resp: 4787

Ion	Ratio	Lower	Upper
117	100		
201	120.4	81.5	122.3

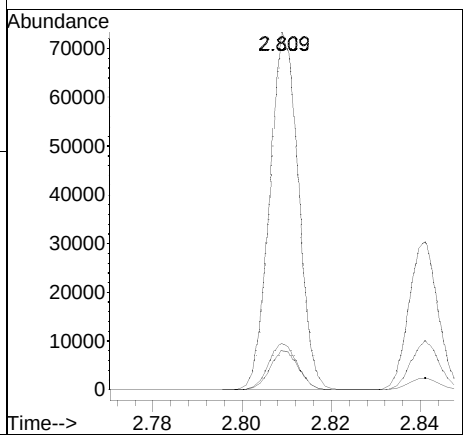


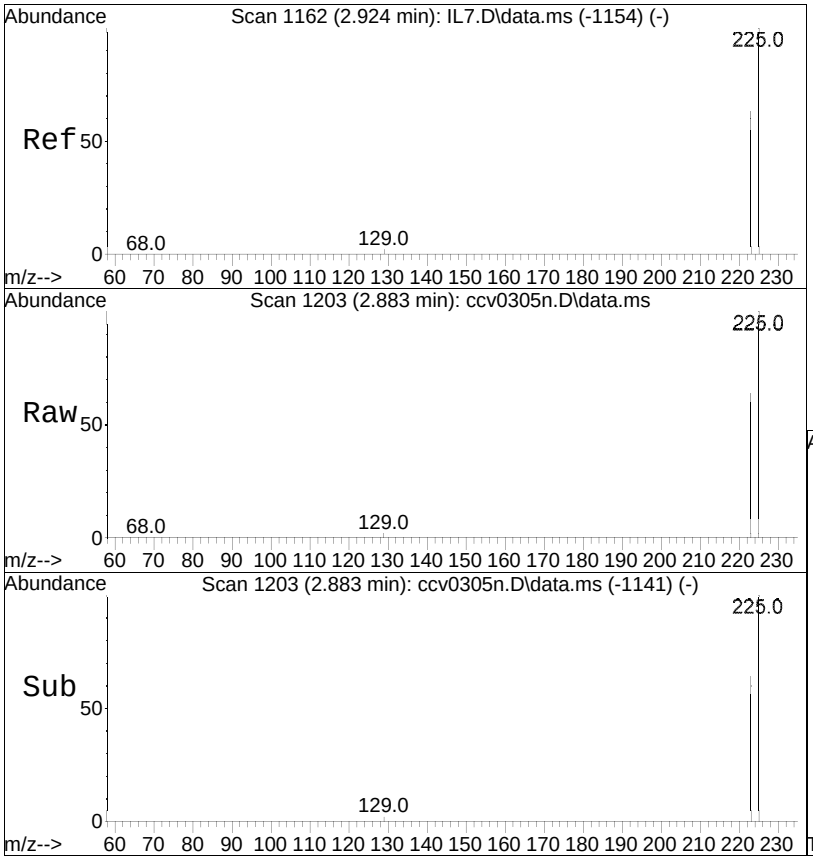


#9
Naphthalene
Concen: 1001.73 ng/ml
RT: 2.809 min Scan# 1157
Delta R.T. 0.000 min
Lab File: ccv0305n.D
Acq: 05 Mar 2024 09:16 pm

Tgt Ion:128 Resp: 32455

Ion	Ratio	Lower	Upper
128	100		
129	10.9	8.8	13.2
127	13.0	10.6	15.8

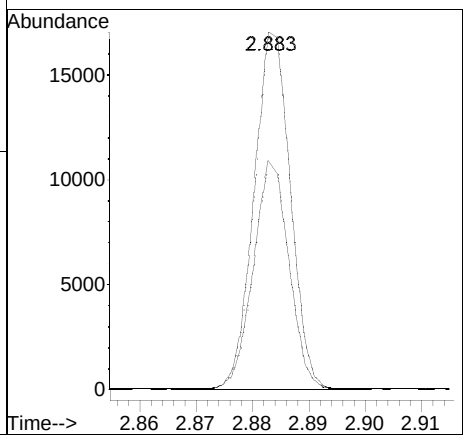


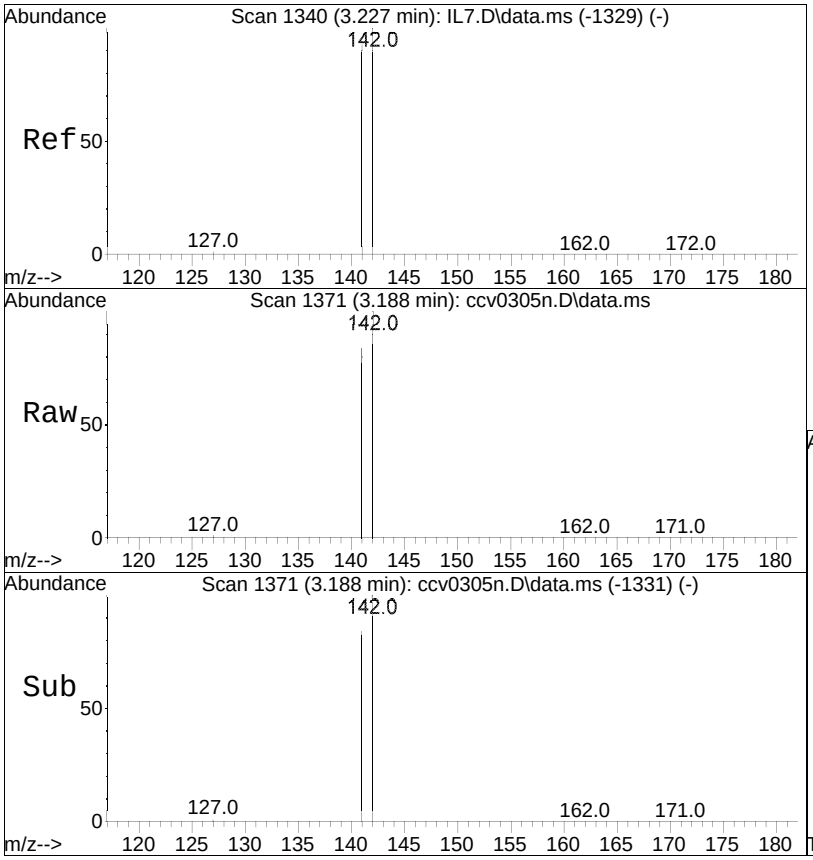


#10
Hexachlorobutadiene
Concen: 1075.90 ng/ml
RT: 2.883 min Scan# 1203
Delta R.T. 0.000 min
Lab File: ccv0305n.D
Acq: 05 Mar 2024 09:16 pm

Tgt Ion:225 Resp: 7507

Ion	Ratio	Lower	Upper
225	100		
223	62.6	50.1	75.1

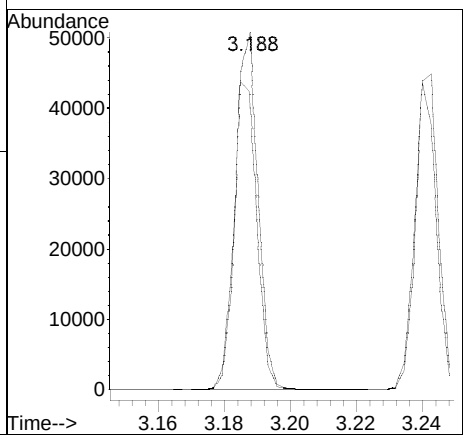


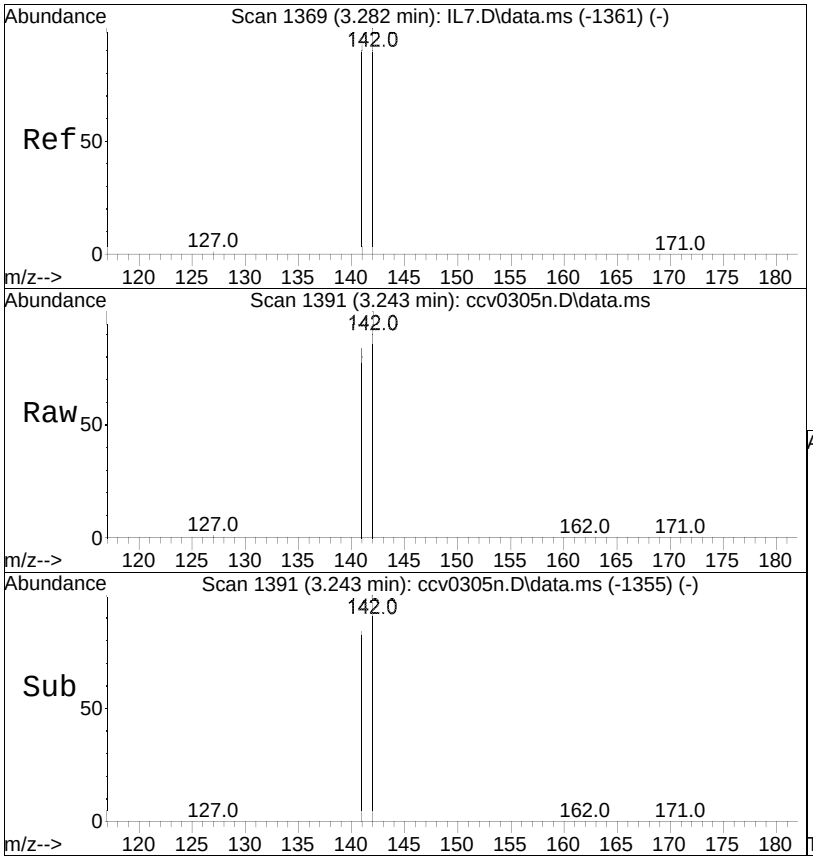


#11
2-Methylnaphthalene
Concen: 996.47 ng/ml
RT: 3.188 min Scan# 1371
Delta R.T. 0.000 min
Lab File: ccv0305n.D
Acq: 05 Mar 2024 09:16 pm

Tgt Ion:142 Resp: 23871

Ion	Ratio	Lower	Upper
142	100		
141	89.1	74.1	111.1

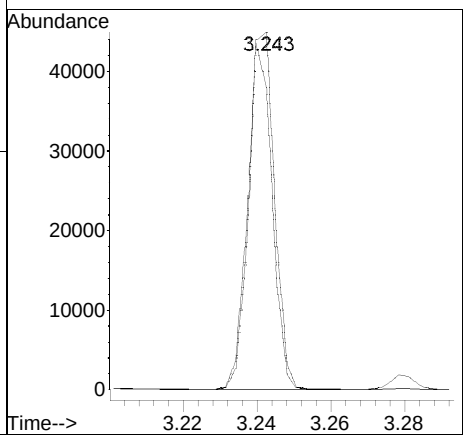


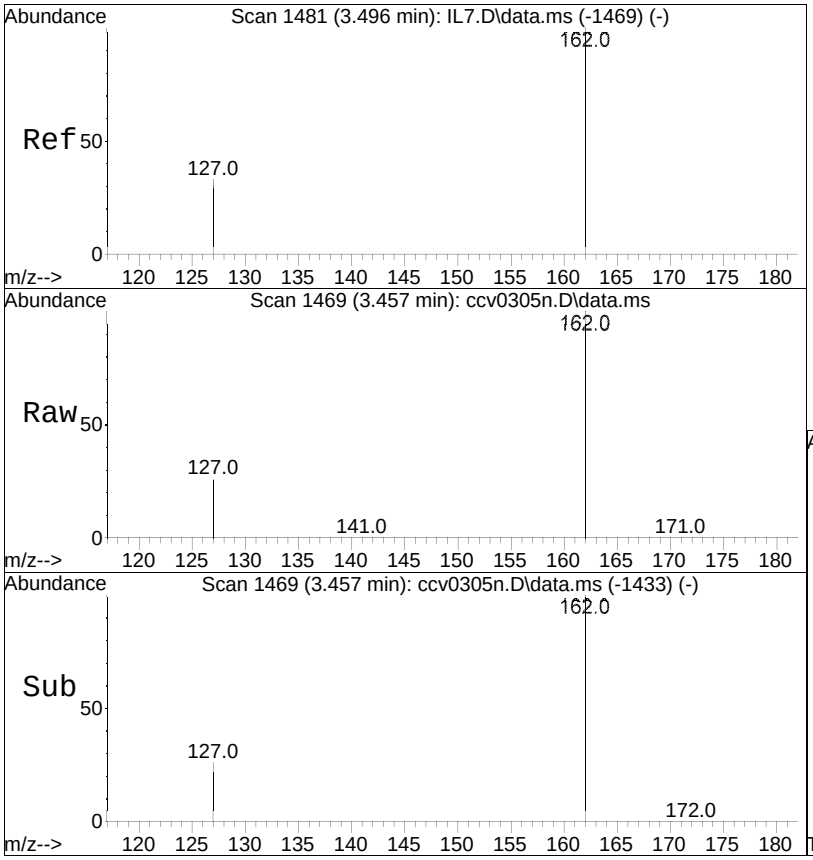


#12
1-Methylnaphthalene
Concen: 965.20 ng/ml
RT: 3.243 min Scan# 1391
Delta R.T. 0.000 min
Lab File: ccv0305n.D
Acq: 05 Mar 2024 09:16 pm

Tgt Ion:142 Resp: 21322

Ion	Ratio	Lower	Upper
142	100		
141	92.6	76.6	114.8

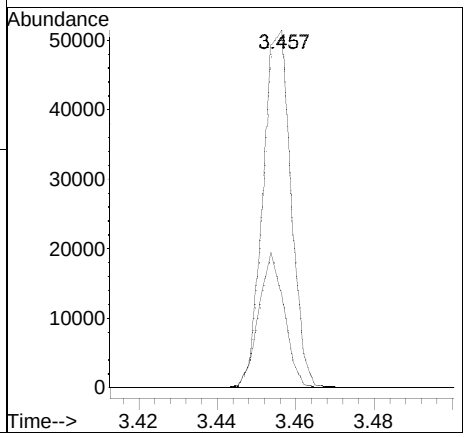


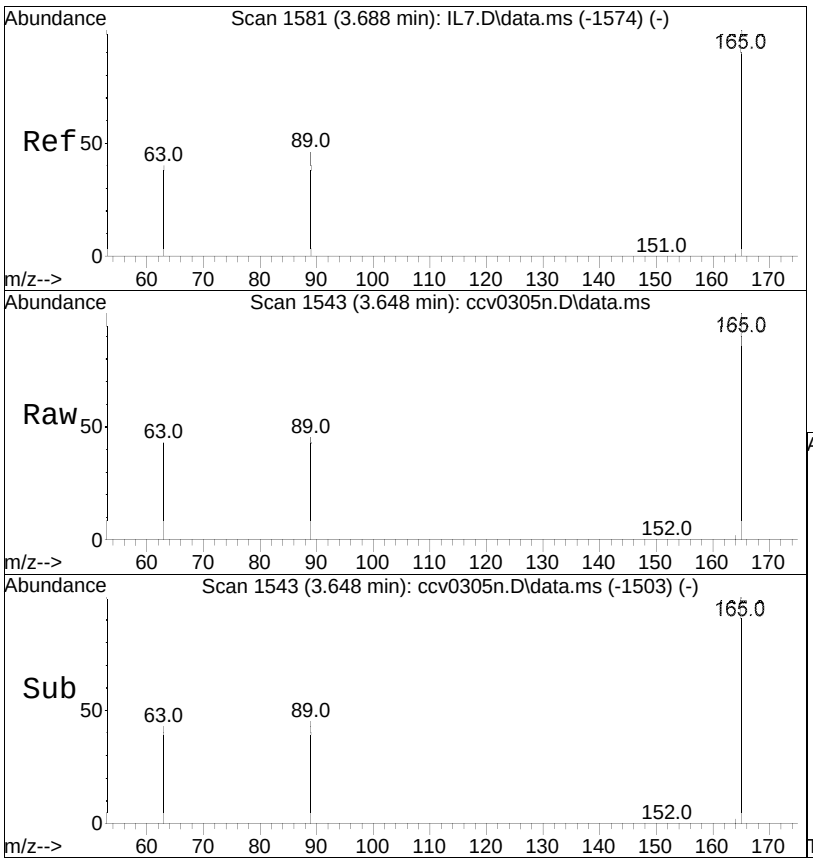


#14
2-Chloronaphthalene
Concen: 982.58 ng/ml
RT: 3.457 min Scan# 1469
Delta R.T. 0.000 min
Lab File: ccv0305n.D
Acq: 05 Mar 2024 09:16 pm

Tgt Ion:162 Resp: 25073

Ion	Ratio	Lower	Upper
162	100		
127	34.8	29.7	44.5

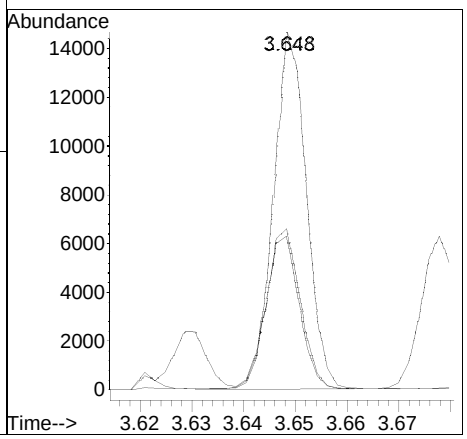


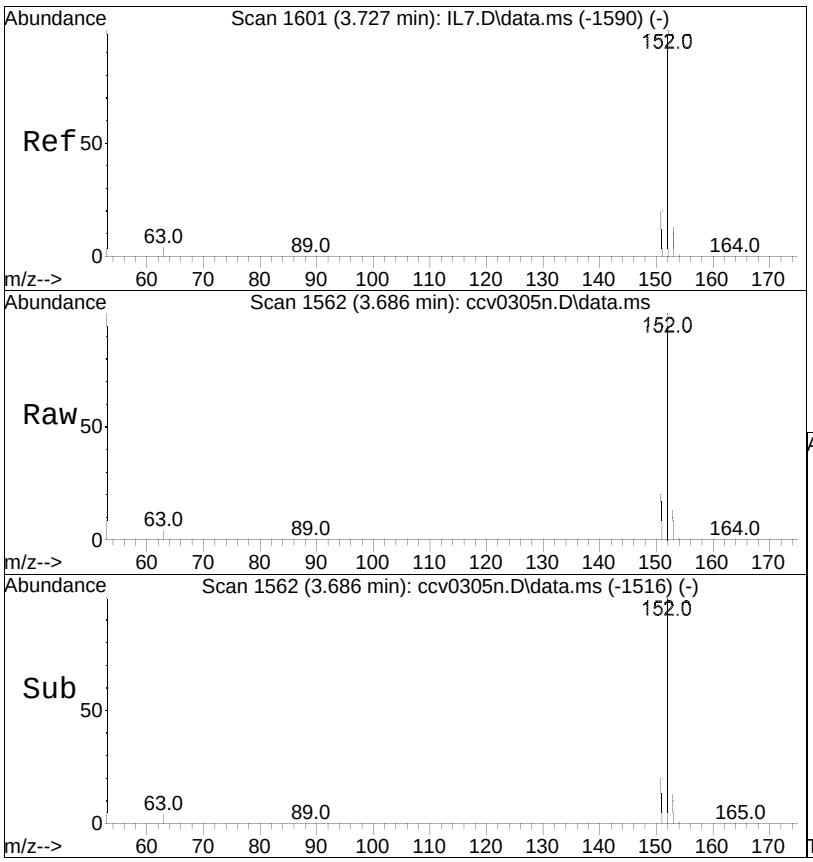


#15
2,6-Dinitrotoluene
Concen: 1116.10 ng/ml
RT: 3.648 min Scan# 1543
Delta R.T. 0.000 min
Lab File: ccv0305n.D
Acq: 05 Mar 2024 09:16 pm

Tgt Ion:165 Resp: 6431

Ion	Ratio	Lower	Upper
165	100		
89	47.2	52.8	79.2#
63	44.5	50.9	76.3#

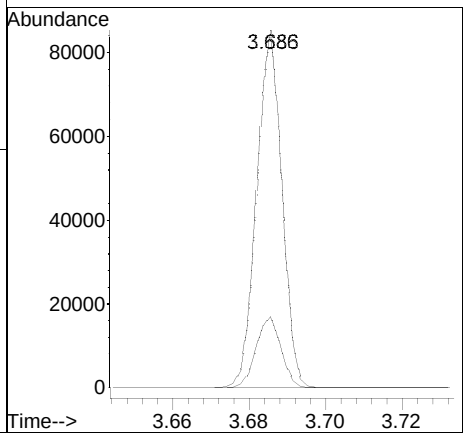


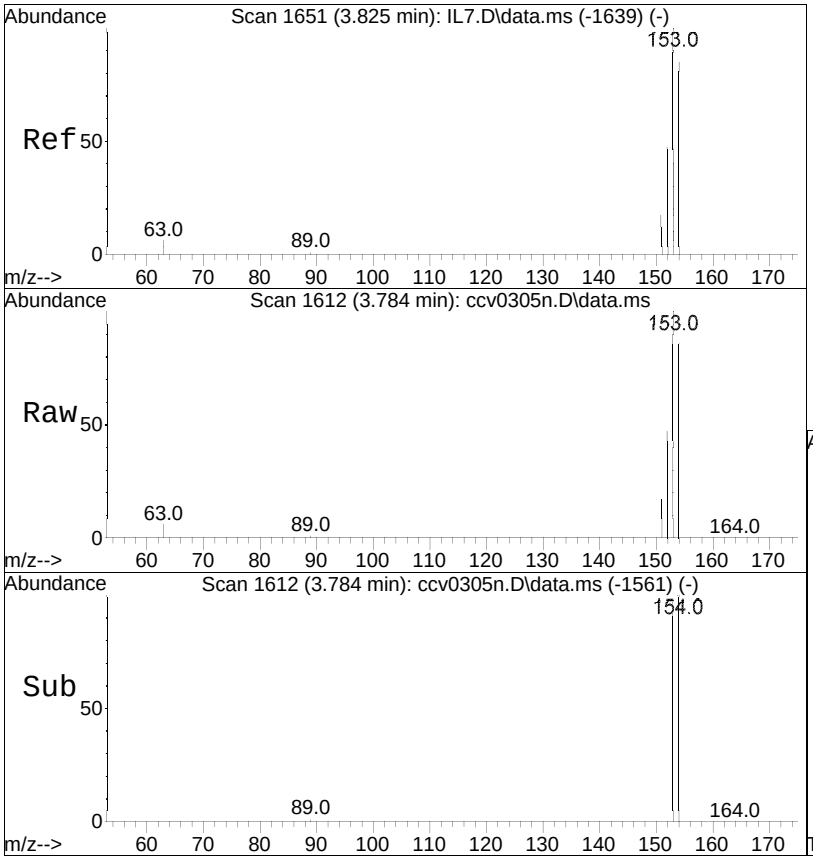


#16
Acenaphthylene
Concen: 1012.99 ng/ml
RT: 3.686 min Scan# 1562
Delta R.T. 0.000 min
Lab File: ccv0305n.D
Acq: 05 Mar 2024 09:16 pm

Tgt Ion:152 Resp: 38413

Ion	Ratio	Lower	Upper
152	100		
151	19.8	16.0	24.0

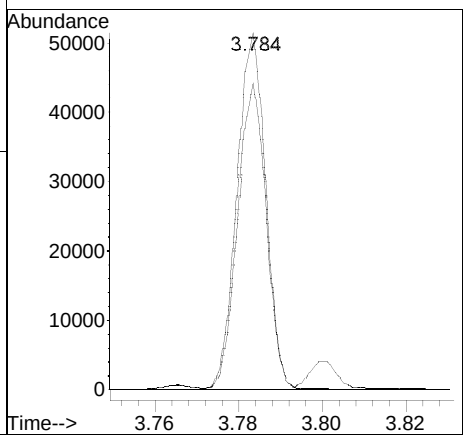


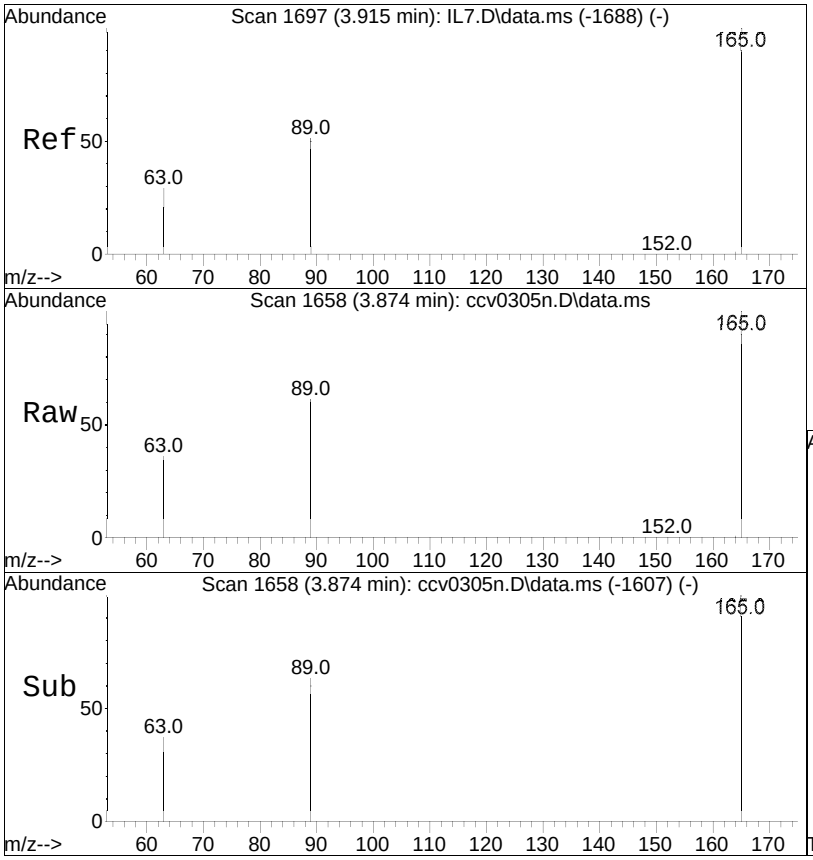


#18
Acenaphthene
Concen: 981.76 ng/ml
RT: 3.784 min Scan# 1612
Delta R.T. 0.000 min
Lab File: ccv0305n.D
Acq: 05 Mar 2024 09:16 pm

Tgt Ion:153 Resp: 24269

Ion	Ratio	Lower	Upper
153	100		
154	85.5	66.9	100.3

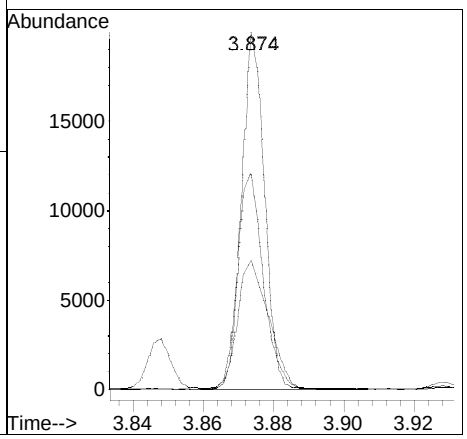


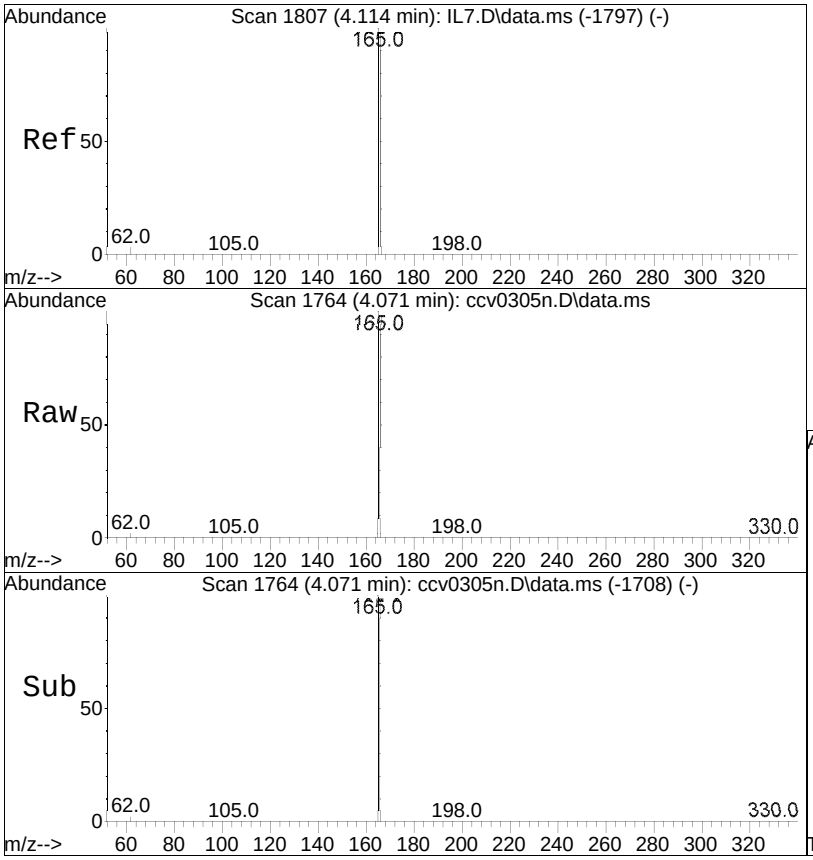


#19
2,4-Dinitrotoluene
Concen: 1197.12 ng/ml
RT: 3.874 min Scan# 1658
Delta R.T. 0.000 min
Lab File: ccv0305n.D
Acq: 05 Mar 2024 09:16 pm

Tgt Ion:165 Resp: 8823

Ion	Ratio	Lower	Upper
165	100		
89	69.0	80.1	120.1#
63	49.2	38.9	58.3

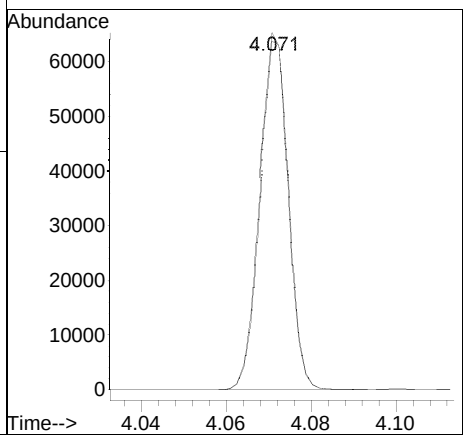


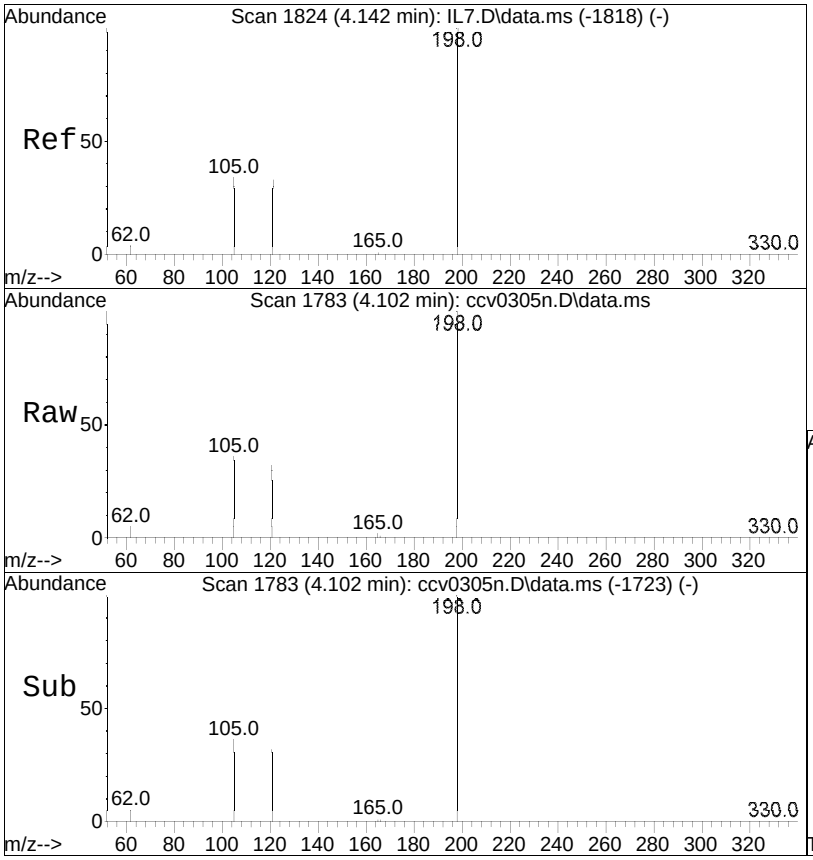


#20
Fluorene
Concen: 1009.58 ng/ml
RT: 4.071 min Scan# 1764
Delta R.T. 0.000 min
Lab File: ccv0305n.D
Acq: 05 Mar 2024 09:16 pm

Tgt Ion:166 Resp: 29831

Ion	Ratio	Lower	Upper
166	100		
165	100.9	82.9	124.3

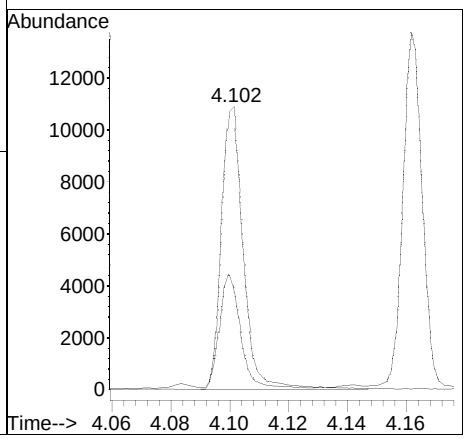


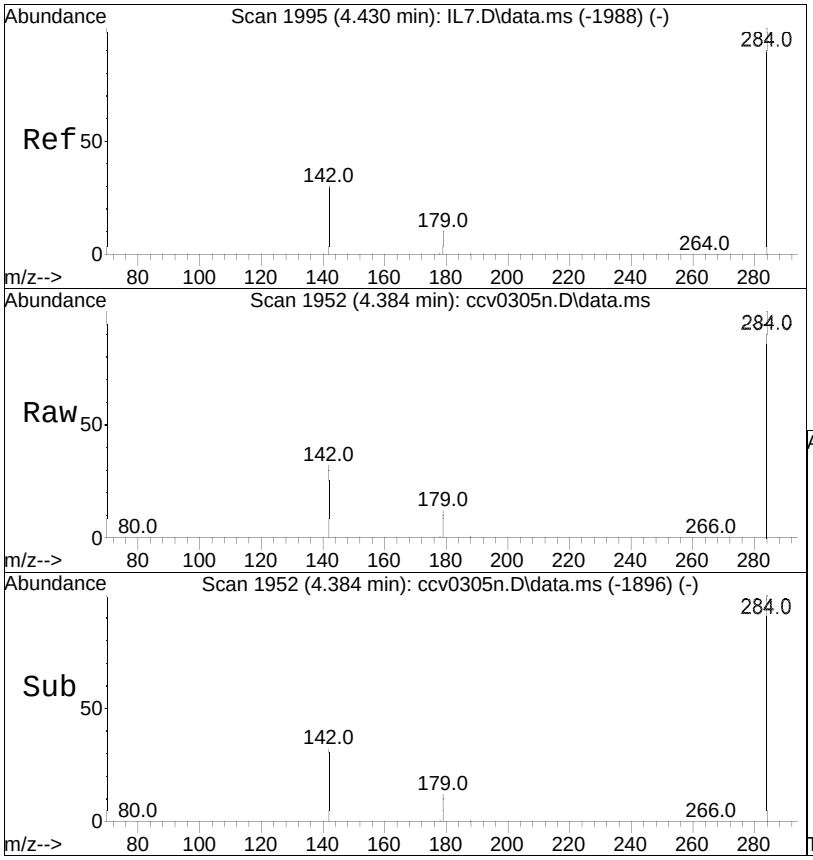


#23
4,6-Dinitro-o-cresol
Concen: 1010.71 ng/ml
RT: 4.102 min Scan# 1783
Delta R.T. 0.000 min
Lab File: ccv0305n.D
Acq: 05 Mar 2024 09:16 pm

Tgt Ion:198 Resp: 5541

Ion	Ratio	Lower	Upper
198	100		
105	38.1	32.2	48.4

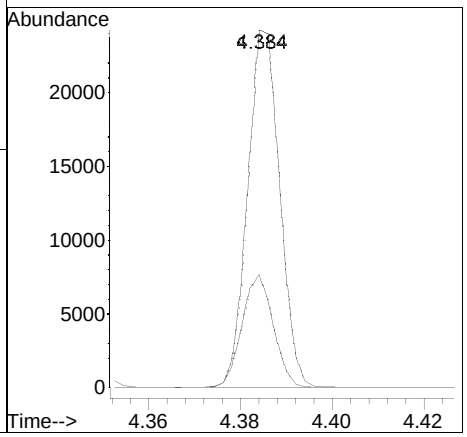


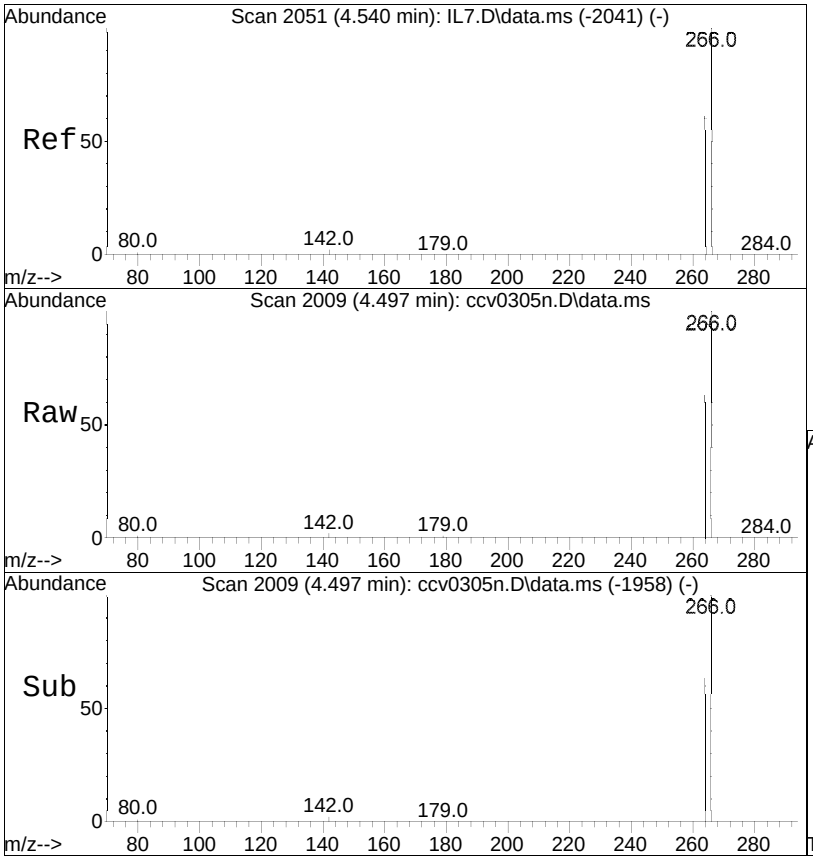


#24
Hexachlorobenzene
Concen: 944.02 ng/ml
RT: 4.384 min Scan# 1952
Delta R.T. 0.000 min
Lab File: ccv0305n.D
Acq: 05 Mar 2024 09:16 pm

Tgt Ion:284 Resp: 11602

Ion	Ratio	Lower	Upper
284	100		
142	30.8	26.9	40.3

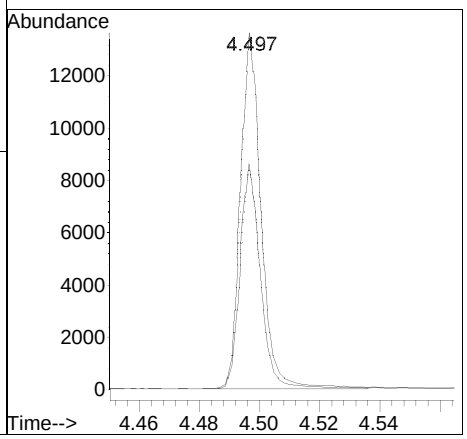


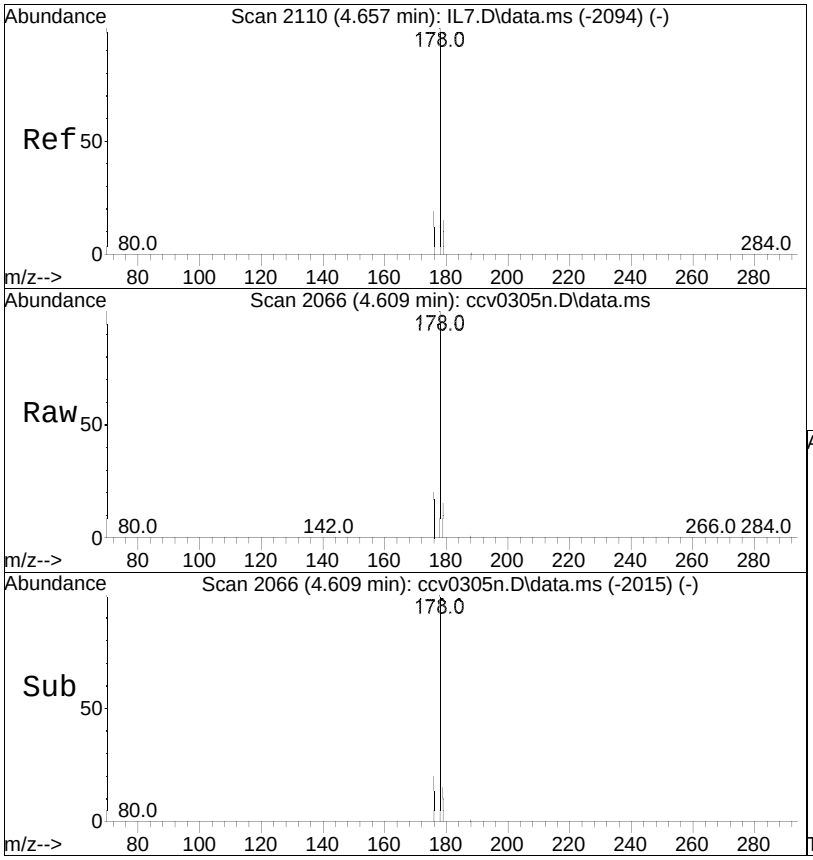


#25
Pentachlorophenol
Concen: 826.98 ng/ml
RT: 4.497 min Scan# 2009
Delta R.T. 0.000 min
Lab File: ccv0305n.D
Acq: 05 Mar 2024 09:16 pm

Tgt Ion:266 Resp: 6414

Ion	Ratio	Lower	Upper
266	100		
264	62.0	50.7	76.1

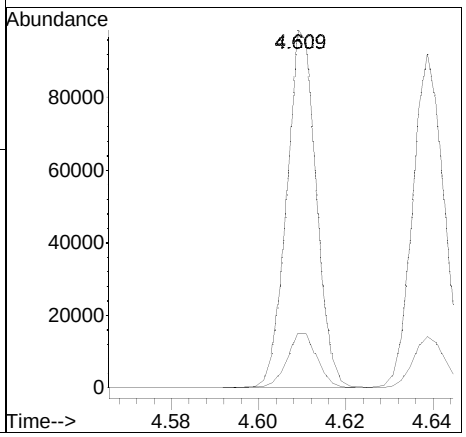


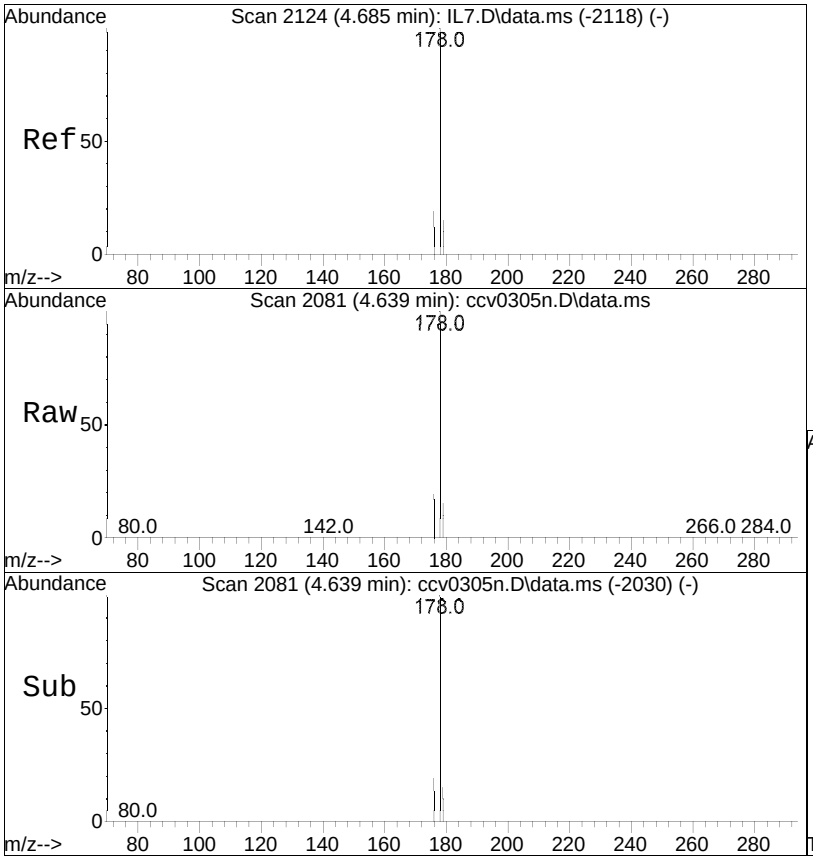


#26
Phenanthrene
Concen: 966.73 ng/ml
RT: 4.609 min Scan# 2066
Delta R.T. 0.000 min
Lab File: ccv0305n.D
Acq: 05 Mar 2024 09:16 pm

Tgt Ion:178 Resp: 46684

Ion	Ratio	Lower	Upper
178	100		
179	15.4	12.3	18.5

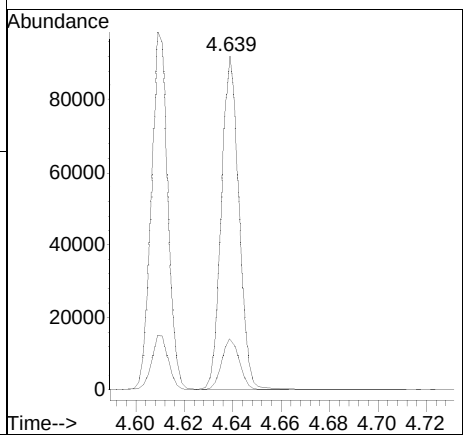


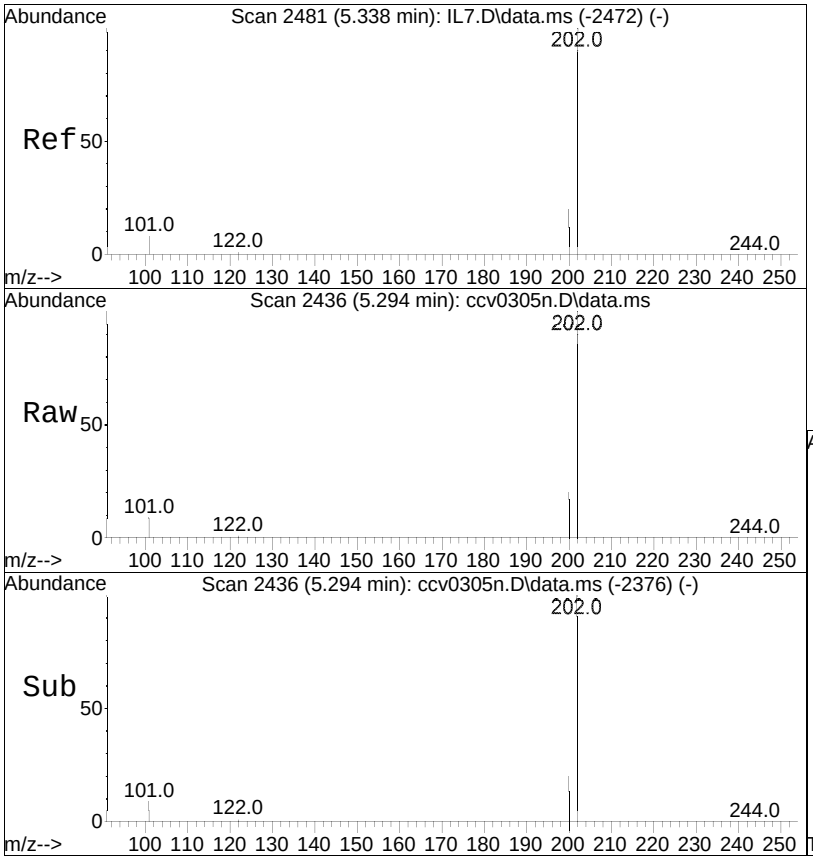


#27
Anthracene
Concen: 970.45 ng/ml
RT: 4.639 min Scan# 2081
Delta R.T. 0.000 min
Lab File: ccv0305n.D
Acq: 05 Mar 2024 09:16 pm

Tgt Ion:178 Resp: 46473

Ion	Ratio	Lower	Upper
178	100		
179	15.3	12.2	18.4

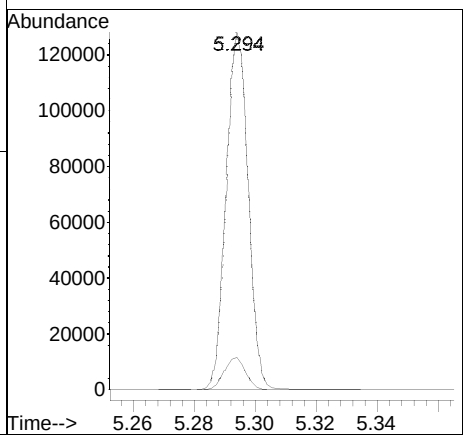


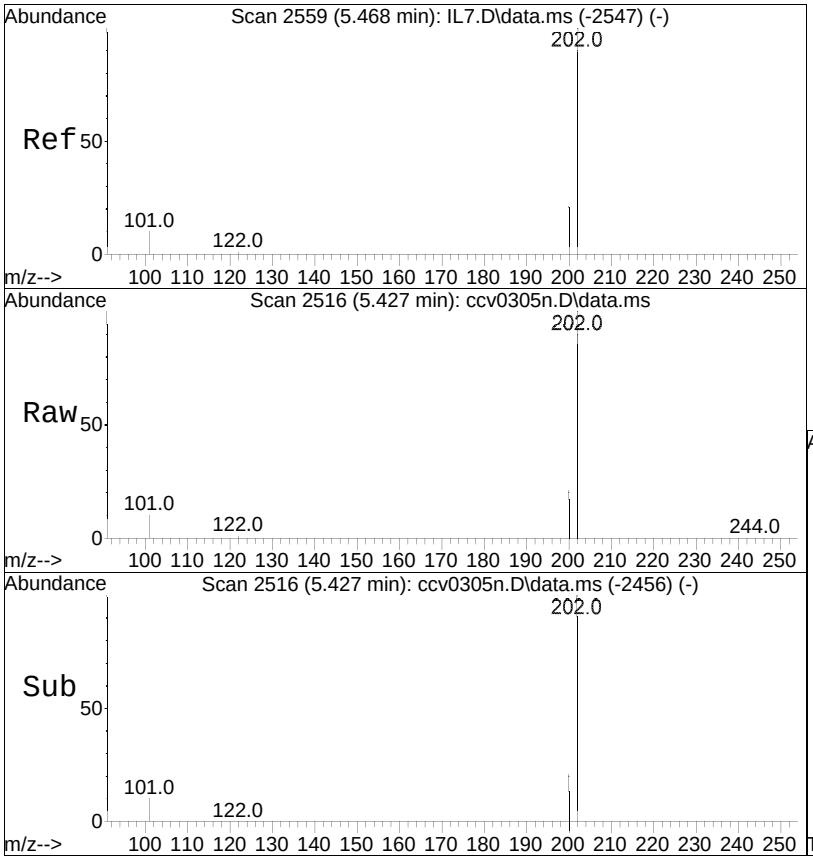


#28
Fluoranthene
Concen: 995.43 ng/ml
RT: 5.294 min Scan# 2436
Delta R.T. 0.000 min
Lab File: ccv0305n.D
Acq: 05 Mar 2024 09:16 pm

Tgt Ion:202 Resp: 63354

Ion	Ratio	Lower	Upper
202	100		
101	8.9	8.3	12.5

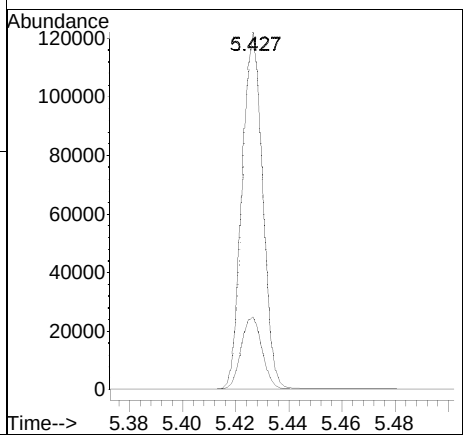


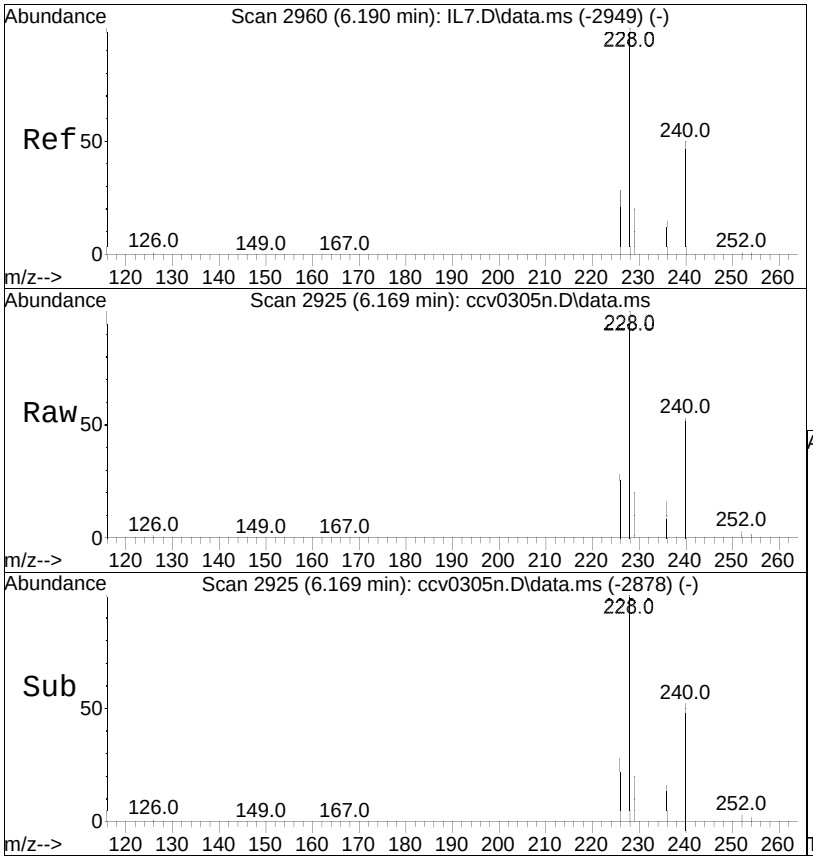


#29
Pyrene
Concen: 994.22 ng/ml
RT: 5.427 min Scan# 2516
Delta R.T. 0.000 min
Lab File: ccv0305n.D
Acq: 05 Mar 2024 09:16 pm

Tgt Ion:202 Resp: 65008

Ion	Ratio	Lower	Upper
202	100		
200	20.8	17.3	25.9

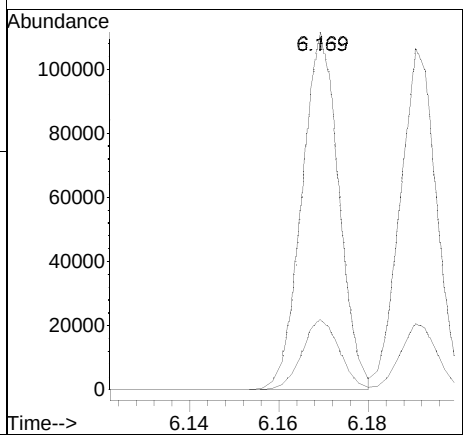


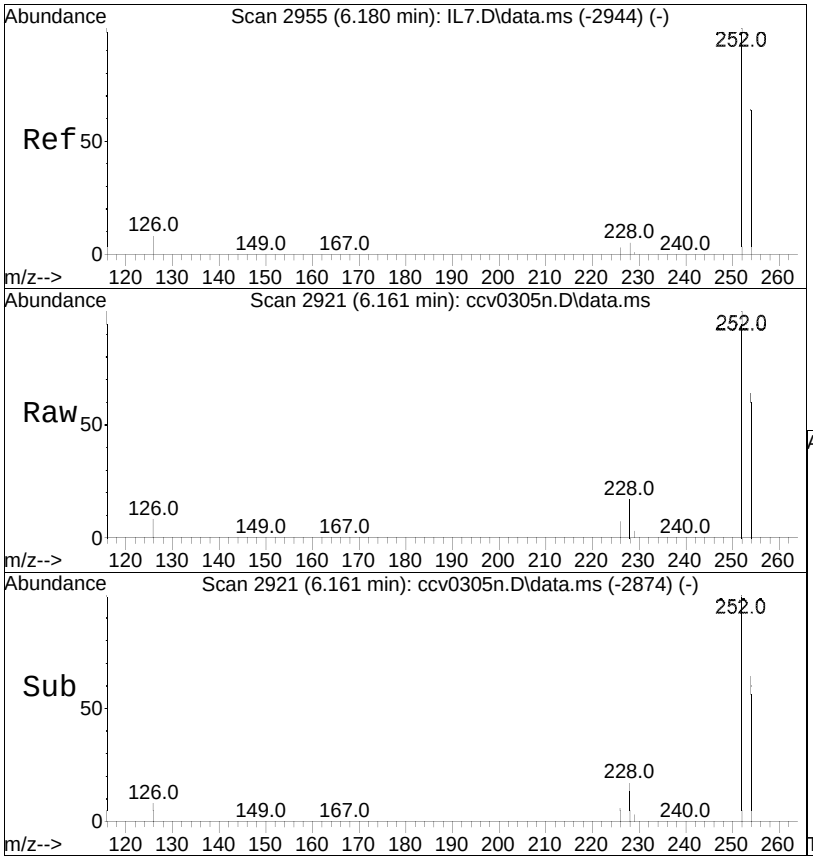


#32
Benzo[a]anthracene
Concen: 1066.47 ng/ml
RT: 6.169 min Scan# 2925
Delta R.T. 0.000 min
Lab File: ccv0305n.D
Acq: 05 Mar 2024 09:16 pm

Tgt Ion:228 Resp: 64096

Ion	Ratio	Lower	Upper
228	100		
229	19.8	15.6	23.4

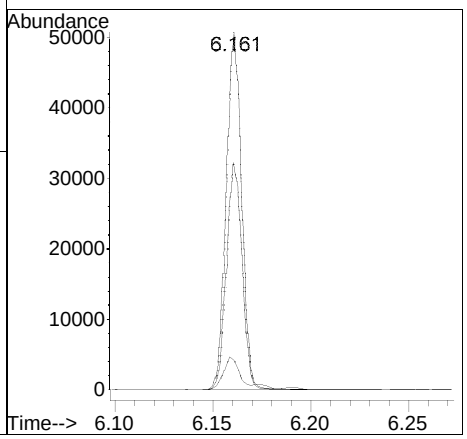


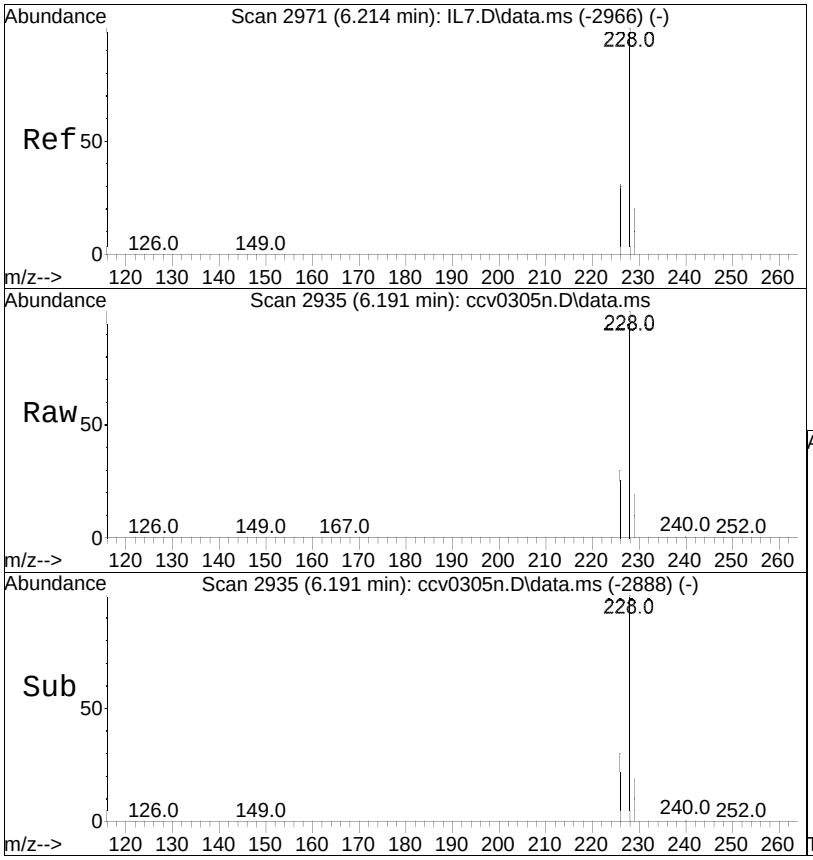


#33
3,3'-Dichlorobenzidine
Concen: 996.76 ng/ml
RT: 6.161 min Scan# 2921
Delta R.T. 0.000 min
Lab File: ccv0305n.D
Acq: 05 Mar 2024 09:16 pm

Tgt Ion:252 Resp: 27003

Ion	Ratio	Lower	Upper
252	100		
126	9.8	7.7	11.5
254	64.2	52.0	78.0

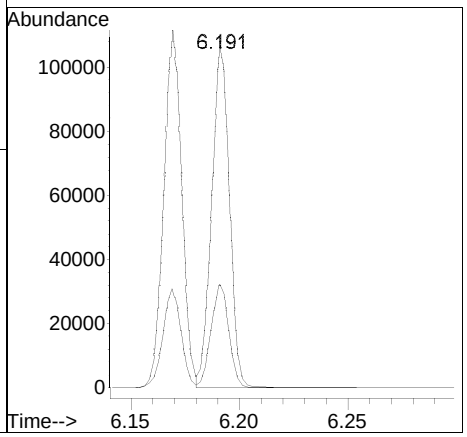


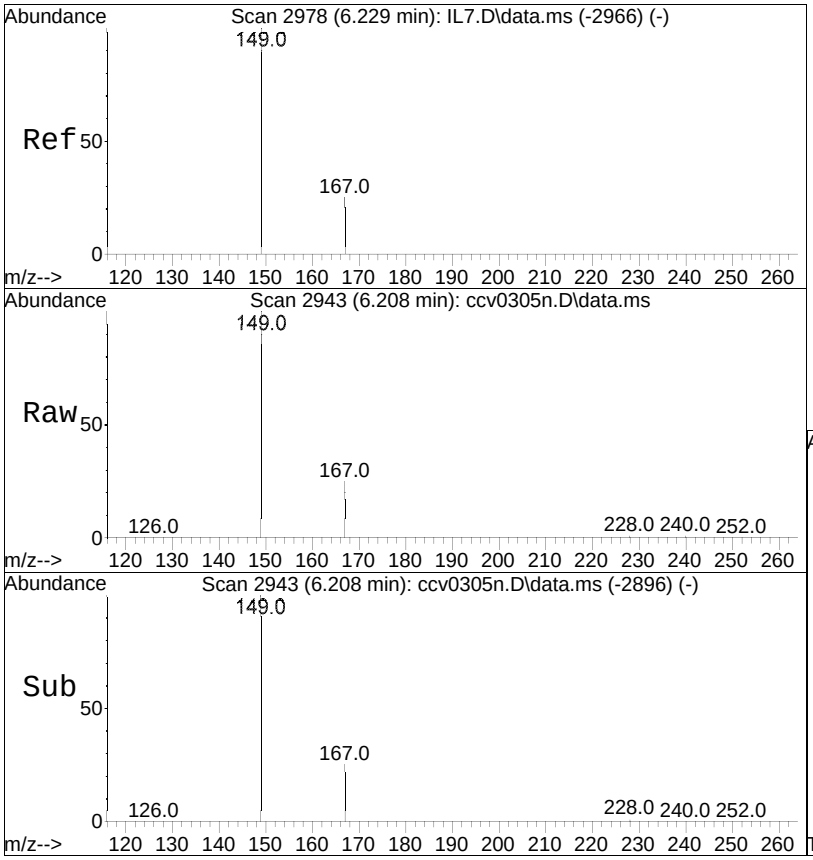


#34
Chrysene
Concen: 1018.99 ng/ml
RT: 6.191 min Scan# 2935
Delta R.T. 0.000 min
Lab File: ccv0305n.D
Acq: 05 Mar 2024 09:16 pm

Tgt Ion:228 Resp: 60305

Ion	Ratio	Lower	Upper
228	100		
226	30.2	24.5	36.7

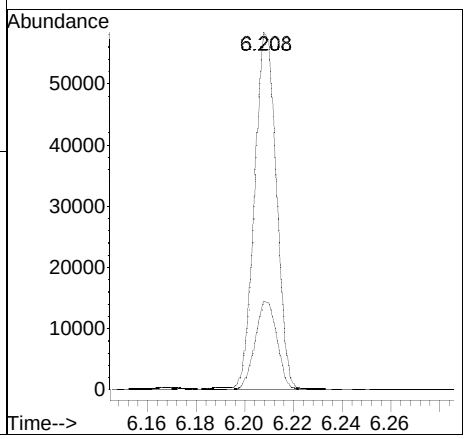


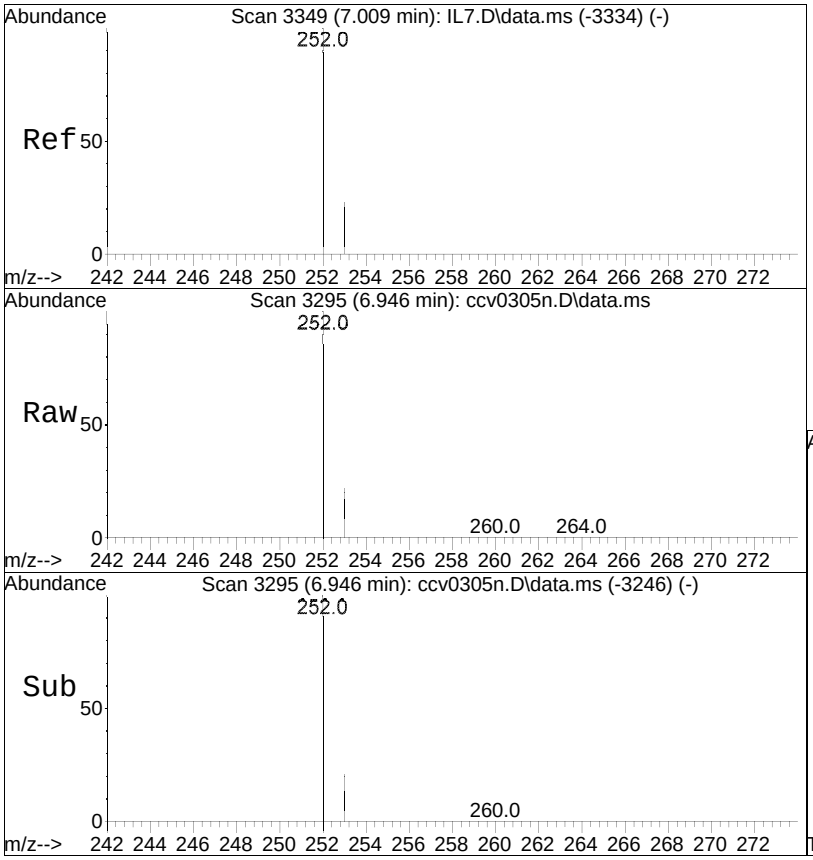


#35
Bis(2-ethylhexyl)phthalate
Concen: 913.33 ng/ml
RT: 6.208 min Scan# 2943
Delta R.T. 0.000 min
Lab File: ccv0305n.D
Acq: 05 Mar 2024 09:16 pm

Tgt Ion:149 Resp: 35760

Ion	Ratio	Lower	Upper
149	100		
167	24.8	18.5	27.7

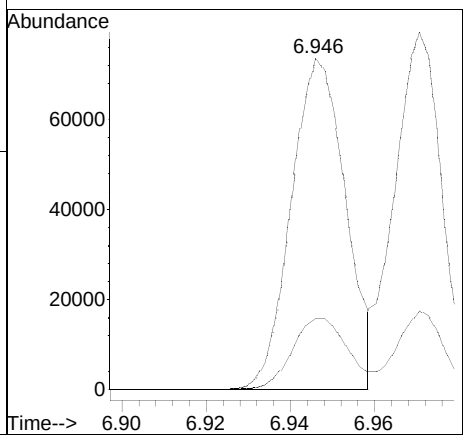


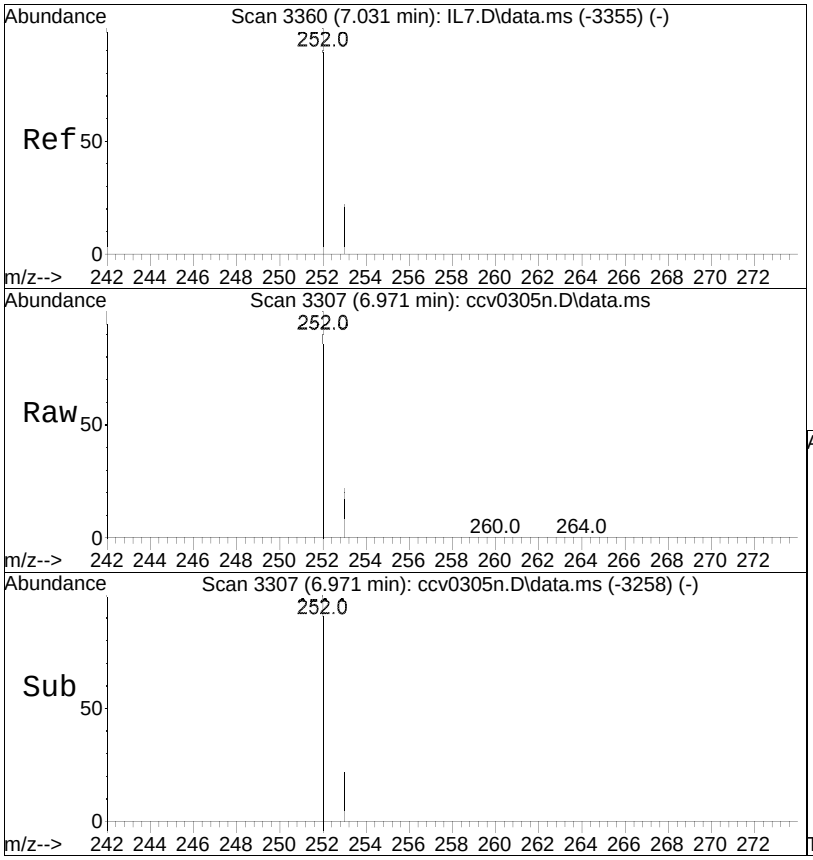


#37
Benzo[b]fluoranthene
Concen: 1037.65 ng/ml
RT: 6.946 min Scan# 3295
Delta R.T. 0.000 min
Lab File: ccv0305n.D
Acq: 05 Mar 2024 09:16 pm

Tgt Ion:252 Resp: 65978

Ion	Ratio	Lower	Upper
252	100		
253	22.5	17.3	25.9

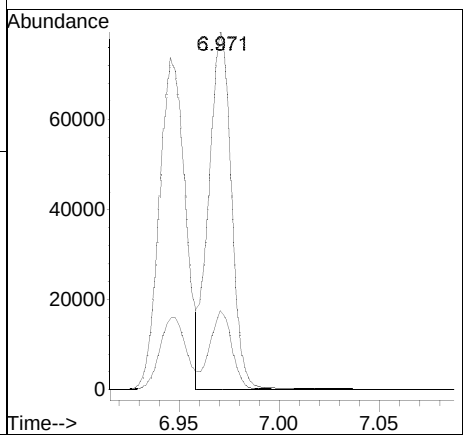


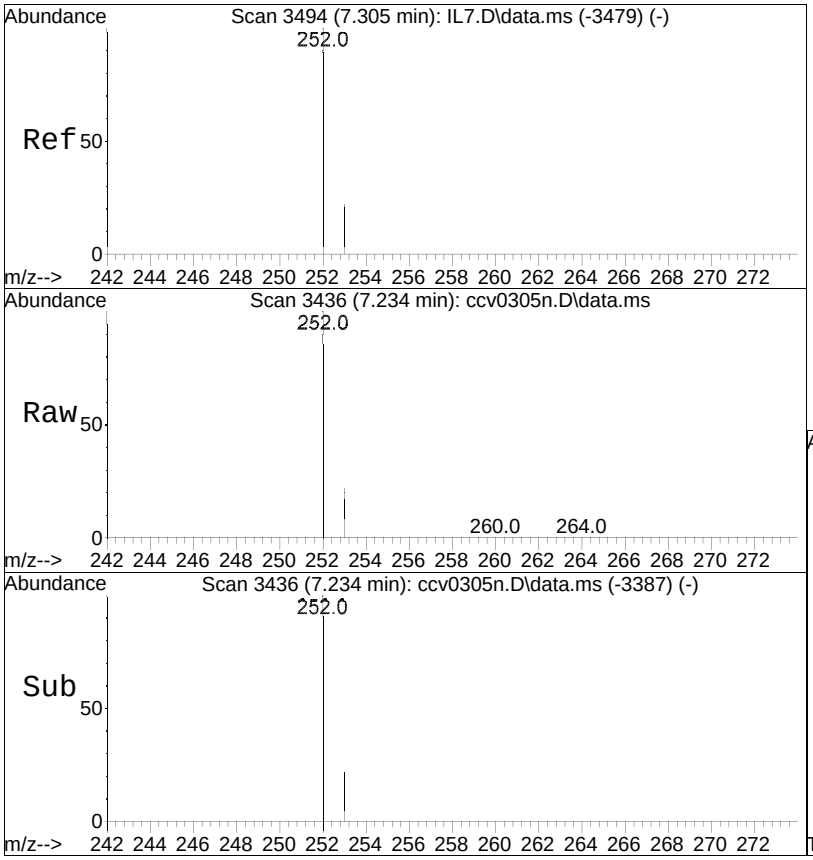


#38
Benzo[k]fluoranthene
Concen: 1030.66 ng/ml
RT: 6.971 min Scan# 3307
Delta R.T. 0.000 min
Lab File: ccv0305n.D
Acq: 05 Mar 2024 09:16 pm

Tgt Ion:252 Resp: 62228

Ion	Ratio	Lower	Upper
252	100		
253	20.9	17.4	26.2

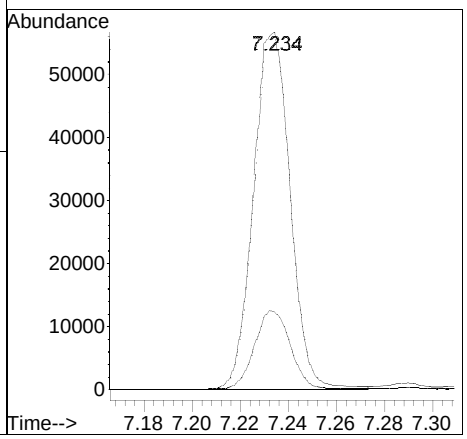


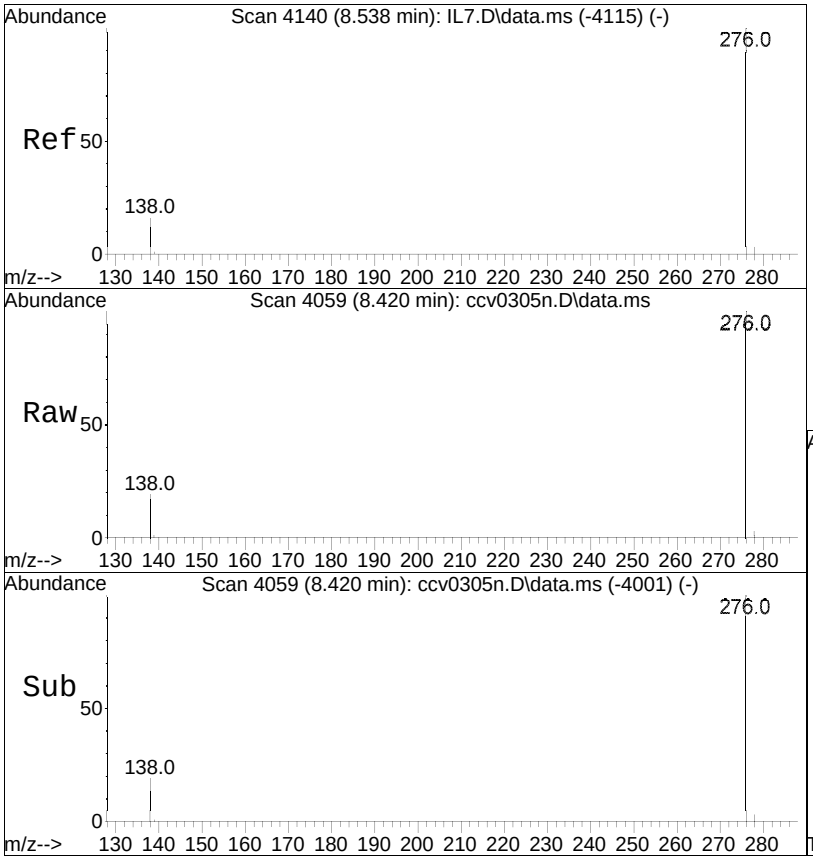


#39
Benzo[a]pyrene
Concen: 1060.06 ng/ml
RT: 7.234 min Scan# 3436
Delta R.T. 0.000 min
Lab File: ccv0305n.D
Acq: 05 Mar 2024 09:16 pm

Tgt Ion:252 Resp: 59329

Ion	Ratio	Lower	Upper
252	100		
253	21.7	17.4	26.0

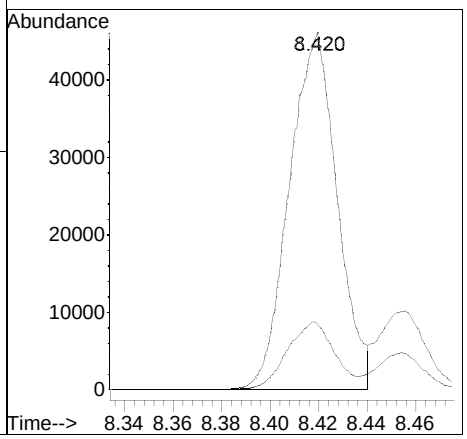


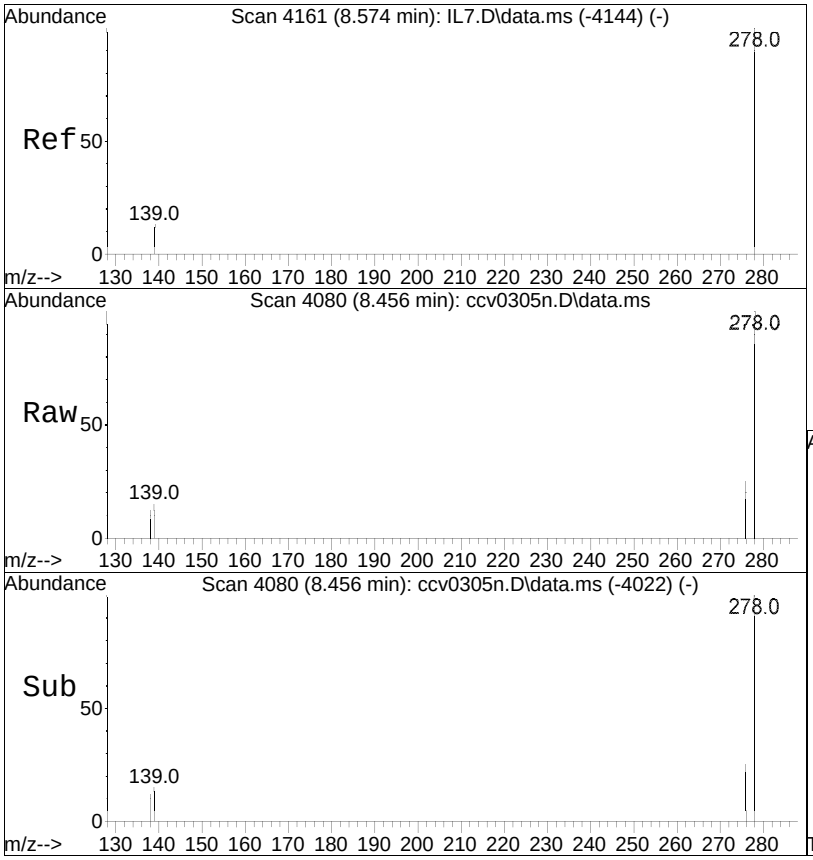


#40
Indeno[1,2,3-cd]pyrene
Concen: 1027.86 ng/ml
RT: 8.420 min Scan# 4059
Delta R.T. 0.000 min
Lab File: ccv0305n.D
Acq: 05 Mar 2024 09:16 pm

Tgt Ion:276 Resp: 62522

Ion	Ratio	Lower	Upper
276	100		
138	18.8	14.8	22.2

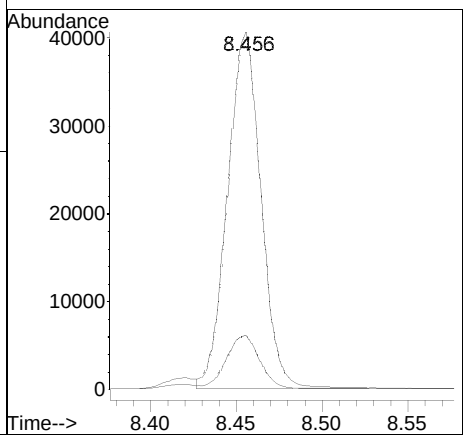


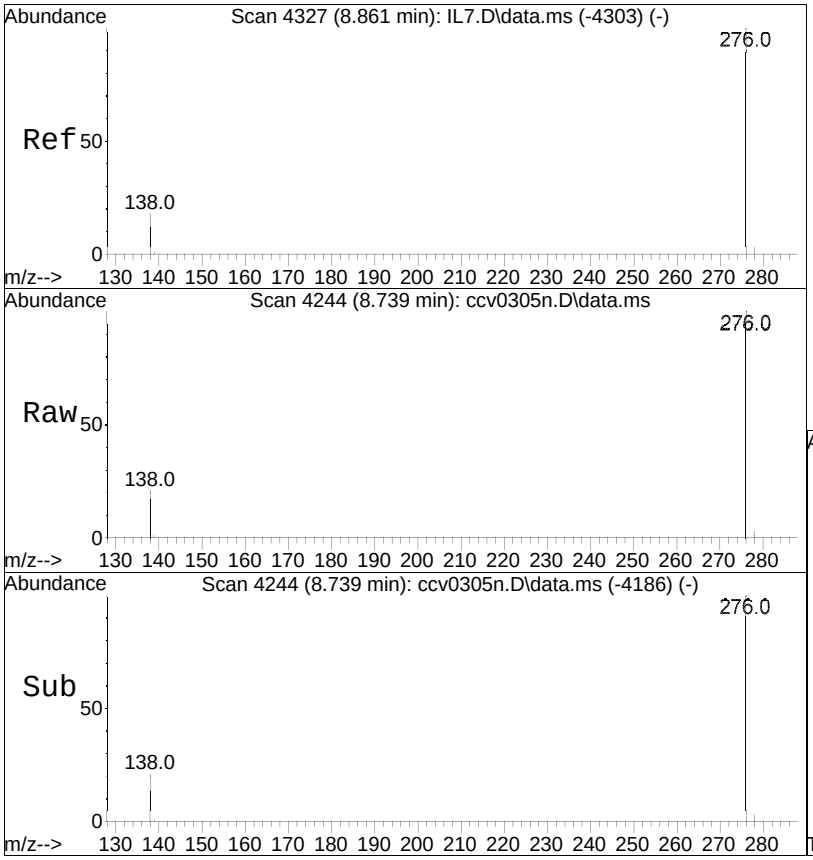


#41
Dibenzo[a,h]anthracene
Concen: 963.52 ng/ml
RT: 8.456 min Scan# 4080
Delta R.T. 0.000 min
Lab File: ccv0305n.D
Acq: 05 Mar 2024 09:16 pm

Tgt Ion:278 Resp: 54529

Ion	Ratio	Lower	Upper
278	100		
139	15.1	12.2	18.4

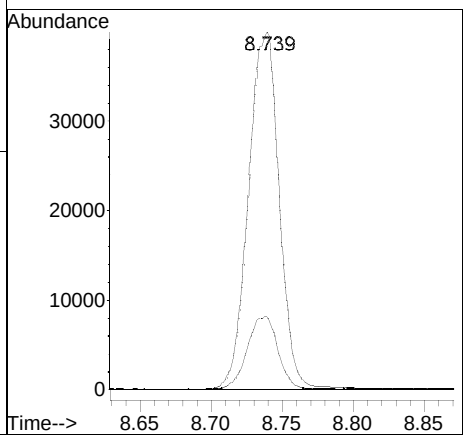




#42
Benzo[g,h,i]perylene
Concen: 956.91 ng/ml
RT: 8.739 min Scan# 4244
Delta R.T. 0.000 min
Lab File: ccv0305n.D
Acq: 05 Mar 2024 09:16 pm

Tgt Ion:276 Resp: 59207

Ion	Ratio	Lower	Upper
276	100		
138	20.5	16.8	25.2



Manual Integration Report

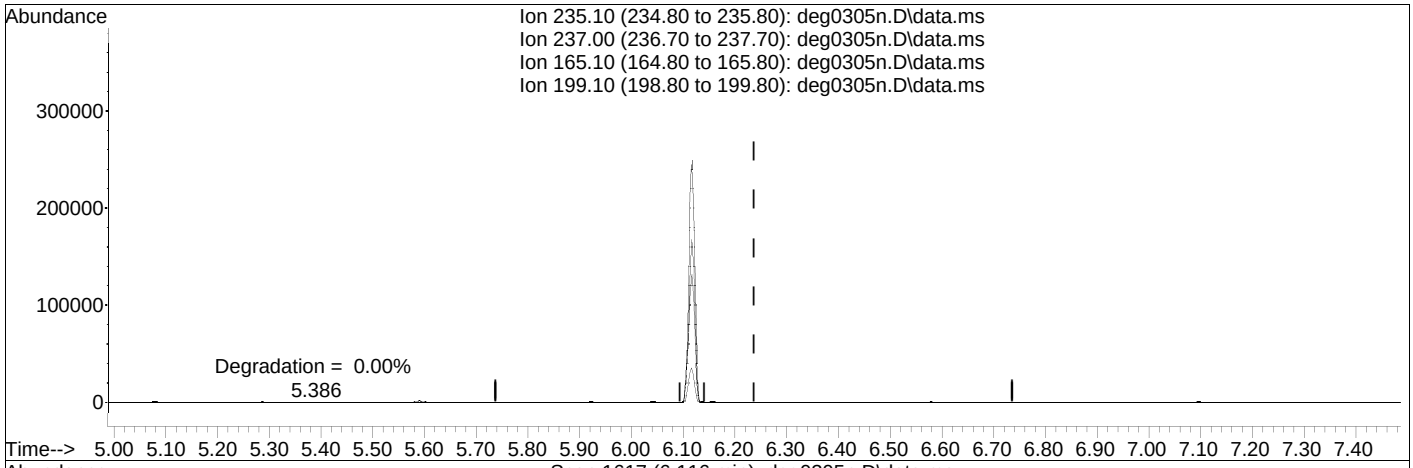
Data Path	: I:\8270SIM\sv119\240305nLVQ	Method	: SIM-LVI_231207n_sv119.M
Data File	: ccv0305n.D	Operator	: sv119:ah
Date Inj'd	: 3/5/2024 9:16 pm	Instrument	: SV119
Sample	: WG1892573-3,32,, ICV 10475	Quant Date	: 3/5/2024 10:22 pm

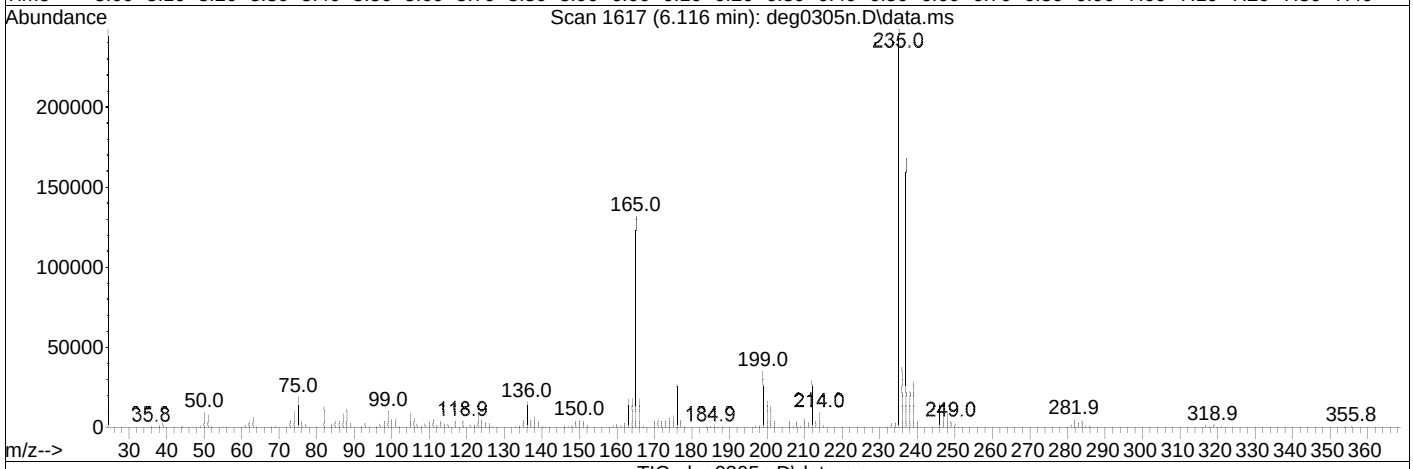
There are no manual integrations or false positives in this file.

Quantitation Report (Qedit)

Data Path : I:\8270SIM\sv119\240305nLVI\
Data File : deg0305n.D
Acq On : 05 Mar 2024 09:00 pm
Operator : sv119:ah
Sample : WG1892573-2,32,,dftppsv119
Misc : WG1892573,,ical20642
ALS Vial : 48 Sample Multiplier: 1

Quant Time: Mar 05 21:27:18 2024
Quant Method : I:\8270SIM\sv119\240305nLVI\dftppsv119.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Feb 27 09:29:03 2024
Response via : Continuing Cal File: C:\ENVDEMO\BNADATA\DLWB002.D





TIC: deg0305n.D\data.ms

(6) ddt (T)

6.116min (-0.121) 29.76

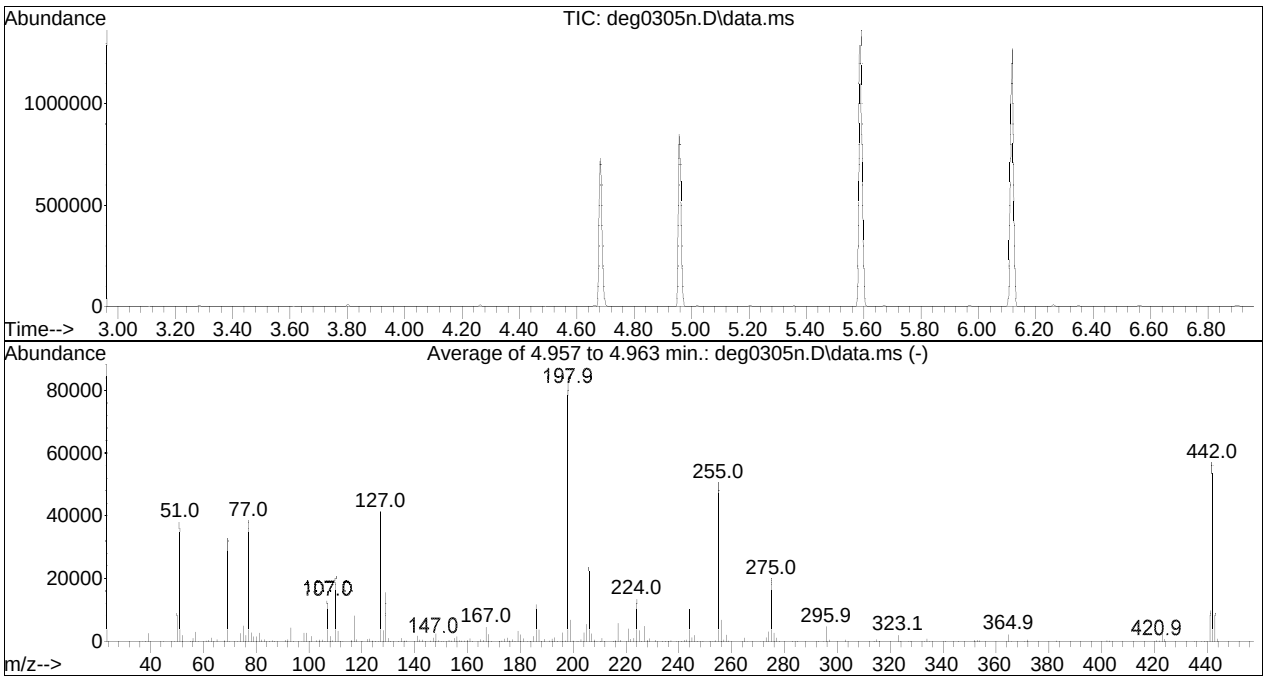
response 181415

Ion	Exp%	Act%
235.10	100.00	100.00
237.00	65.60	67.35
165.10	53.30	53.43
199.10	17.10	14.33

Data Path : I:\8270SIM\sv119\240305nLVI\
Data File : deg0305n.D
Acq On : 05 Mar 2024 09:00 pm
Operator : sv119:ah
Sample : WG1892573-1,32,,dftppsv119
Misc : WG1892573,,ical20642
ALS Vial : 48 Sample Multiplier: 1

Integration File: rteint.p

Method : I:\8270SIM\sv119\240305nLVI\SIM-LVI_231207n_sv119.M
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Tue Mar 05 22:21:53 2024



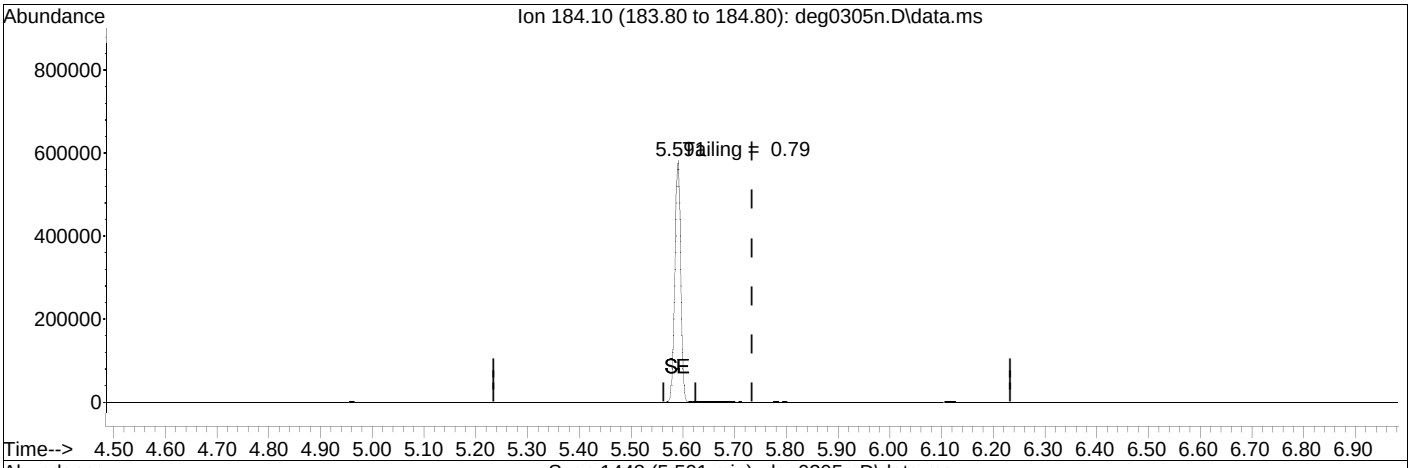
Spectrum Information: Average of 4.957 to 4.963 min.

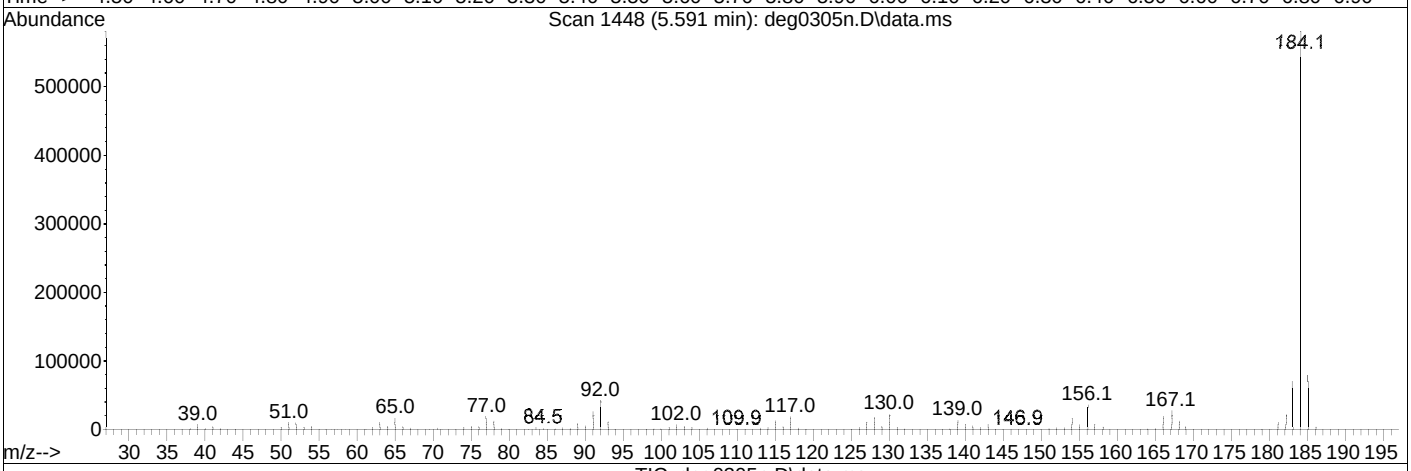
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	45.2	37960	PASS
68	69	0.00	2	1.7	546	PASS
69	69	100	100	100.0	32616	PASS
70	69	0.00	2	0.6	202	PASS
127	198	10	80	49.2	41379	PASS
197	198	0.00	2	0.5	384	PASS
198	198	100	100	100.0	84040	PASS
199	198	5	9	7.9	6620	PASS
275	198	10	60	23.8	19995	PASS
365	198	1	100	2.7	2238	PASS
441	442	0.01	24	17.5	9960	PASS
442	198	50	100	67.7	56869	PASS
443	442	15	24	16.3	9265	PASS

Quantitation Report (Qedit)

Data Path : I:\8270SIM\sv119\240305nLVI\
Data File : deg0305n.D
Acq On : 05 Mar 2024 09:00 pm
Operator : sv119:ah
Sample : WG1892573-4,32,,dftppsv119
Misc : WG1892573,,ical20642
ALS Vial : 48 Sample Multiplier: 1

Quant Time: Mar 05 21:27:18 2024
Quant Method : I:\8270SIM\sv119\240305nLVI\dftppsv119.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Feb 27 09:29:03 2024
Response via : Continuing Cal File: C:\ENVDEMO\BNADATA\DLWB002.D





TIC: deg0305n.D\data.ms

(3) benzidine (T)

5.591min (-0.143) 42.74

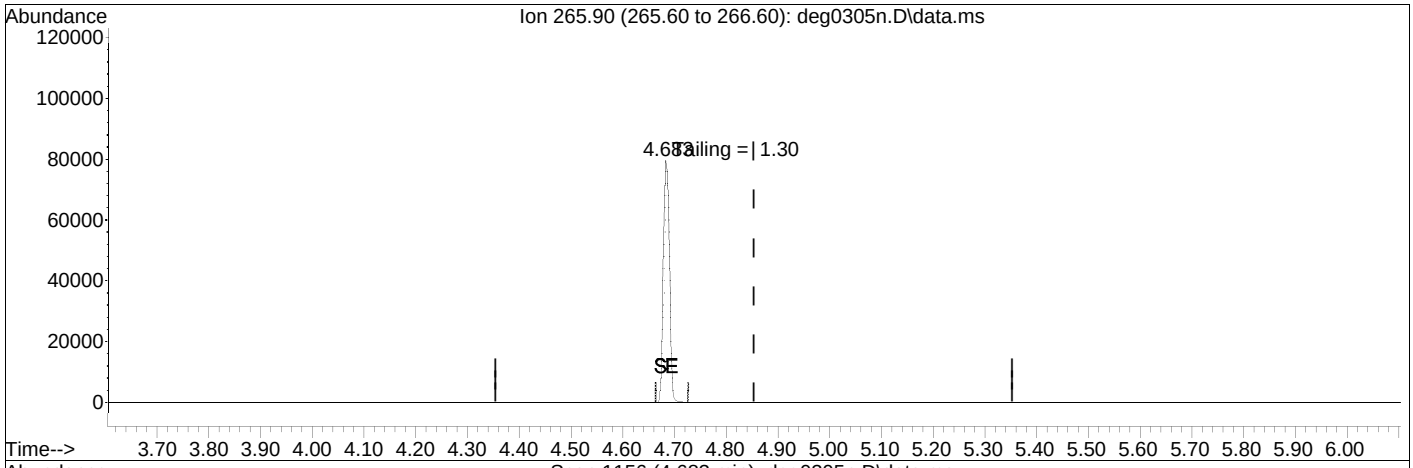
response 435132

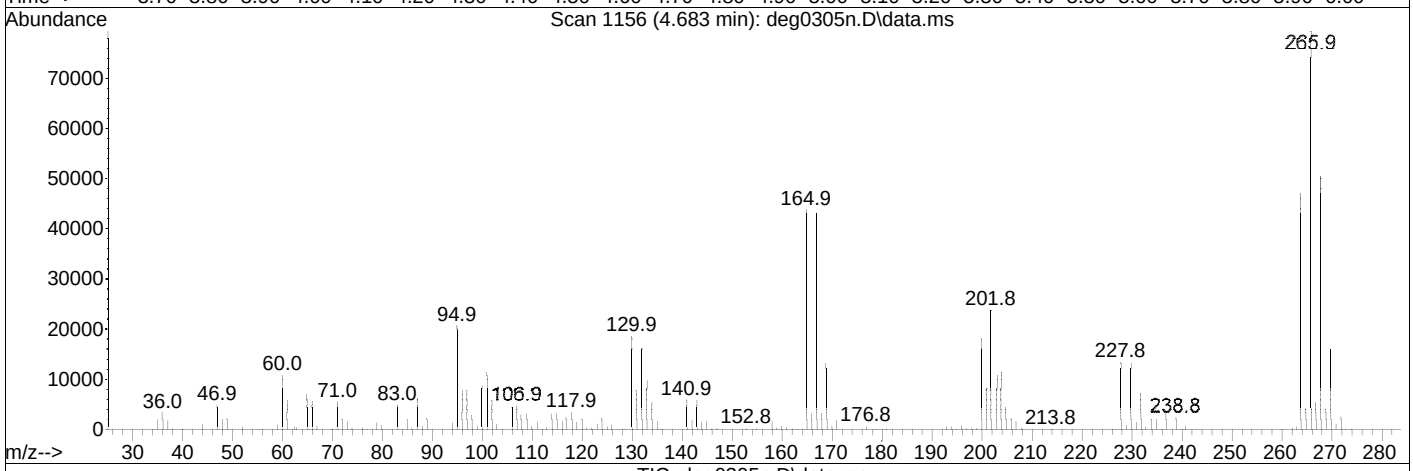
Ion	Exp%	Act%
184.10	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\8270SIM\sv119\240305nLVI\
Data File : deg0305n.D
Acq On : 05 Mar 2024 09:00 pm
Operator : sv119:ah
Sample : WG1892573-5,32,,dftppsv119
Misc : WG1892573,,ical20642
ALS Vial : 48 Sample Multiplier: 1

Quant Time: Mar 05 21:27:18 2024
Quant Method : I:\8270SIM\sv119\240305nLVI\dftppsv119.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Feb 27 09:29:03 2024
Response via : Continuing Cal File: C:\ENVDEMO\BNADATA\DLWB002.D





TIC: deg0305n.D\data.ms

(1) pentachlorophenol (T)

4.683min (-0.171) 28.32

response 59477

Ion	Exp%	Act%
265.90	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Alpha Geoscience	**Lab Number**	: L2410579		
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116		
Instrument ID	: SV128	**Calibration Date**	: 03/03/24 07:58		
Lab File ID	: CCV0303	**Init. Calib. Date(s)**	: 12/11/23	12/13/23	
Sample No	: WG1891581-3	**Init. Calib. Times**	: 13:27	07:14	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,4-Dichlorobenzene-d4	1	1	.05	0	20	89	0
2-Fluorophenol	1.007	1.022	.05	-1.5	20	85	0
Phenol-d6	1.177	1.276	.05	-8.4	20	91	0
Bis(2-chloroethyl)ether	1.005	1.046	.05	-4.1	20	91	0
n-nitrosodi-n-propylamine	0.702	0.719	.05	-2.4	20	86	0
Hexachloroethane	0.478	0.472	.05	1.3	20	85	0
Nitrobenzene-d5	0.951	1.137	.05	-19.6	20	99	0
Naphthalene-d8	1	1	.05	0	20	89	0
Naphthalene	1.026	1.033	.05	-0.7	20	87	0
Hexachlorobutadiene	0.235	0.236	.05	-0.4	20	89	0
2-Methylnaphthalene	0.655	0.692	.05	-5.6	20	89	0
1-Methylnaphthalene	0.617	0.658	.05	-6.6	20	90	0
2-Fluorobiphenyl	0.848	0.932	.05	-9.9	20	91	0
2-Chloronaphthalene	0.713	0.761	.05	-6.7	20	89	0
2,6-Dinitrotoluene	1000	1328.905	.05	-32.9*	20	124	0
Acenaphthylene	1.057	1.163	.05	-10	20	90	0
Acenaphthene-d10	1	1	.05	0	20	94	0
Acenaphthene	1.352	1.345	.05	0.5	20	91	0
2,4-Dinitrotoluene	1000	1285.041	.05	-28.5*	20	131	0
Fluorene	1.365	1.452	.05	-6.4	20	94	0
2,4,6-Tribromophenol	0.2	0.243	.05	-21.5*	20	108	0
Phenanthrene-d10	1	1	.05	0	20	97	0
4,6-Dinitro-o-cresol	1000	1105.449	.05	-10.5	20	125	0
Hexachlorobenzene	0.266	0.248	.05	6.8	20	91	0
Pentachlorophenol	1000	962.628	.05	3.7	20	90	0
Phenanthrene	1.082	1.025	.05	5.3	20	91	0
Anthracene	1.045	1.077	.05	-3.1	20	98	0
Fluoranthene	1.188	1.256	.05	-5.7	20	97	0
Pyrene	1.23	1.34	.05	-8.9	20	97	0
4-Terphenyl-d14	0.833	0.923	.05	-10.8	20	99	0
Chrysene-d12	1	1	.05	0	20	98	0
Benzo[a]anthracene	1000	951.689	.05	4.8	20	95	0
3,3'-Dichlorobenzidine	1000	902.375	.05	9.8	20	97	0
Chrysene	1.379	1.369	.05	0.7	20	94	0
Bis(2-ethylhexyl)phthalate	1000	961.789	.05	3.8	20	110	0
Perylene-d12	1	1	.05	0	20	90	0
Benzo[b]fluoranthene	1.239	1.236	.05	0.2	20	89	0
Benzo[k]fluoranthene	1.153	1.204	.05	-4.4	20	92	0
Benzo[a]pyrene	1.091	1.121	.05	-2.7	20	89	0
Indeno[1,2,3-cd]pyrene	1.091	1.058	.05	3	20	84	0
Dibenzo[a,h]anthracene	1.059	1.087	.05	-2.6	20	84	0
Benzo[g,h,i]perylene	1.134	1.047	.05	7.7	20	77	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Alpha Geoscience	**Lab Number**	: L2410579		
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116		
Instrument ID	: SV119	**Calibration Date**	: 03/04/24 07:40		
Lab File ID	: CCV0304	**Init. Calib. Date(s)**	: 12/07/23	12/07/23	
Sample No	: WG1891805-3	**Init. Calib. Times**	: 13:10	15:42	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,4-Dichlorobenzene-d4	1	1	.05	0	20	88	0
2-Fluorophenol	1.094	1.209	.05	-10.5	20	90	0
Phenol-d6	1.311	1.384	.05	-5.6	20	91	0
Bis(2-chloroethyl)ether	1.115	1.153	.05	-3.4	20	90	0
n-nitrosodi-n-propylamine	0.667	0.678	.05	-1.6	20	86	0
Hexachloroethane	0.495	0.514	.05	-3.8	20	90	0
Nitrobenzene-d5	0.995	1.071	.05	-7.6	20	90	0
Naphthalene-d8	1	1	.05	0	20	86	0
Naphthalene	0.955	0.995	.05	-4.2	20	85	0
Hexachlorobutadiene	0.206	0.232	.05	-12.6	20	92	0
2-Methylnaphthalene	0.706	0.707	.05	-0.1	20	81	0
1-Methylnaphthalene	0.651	0.639	.05	1.8	20	81	0
2-Fluorobiphenyl	0.893	0.869	.05	2.7	20	80	0
2-Chloronaphthalene	0.752	0.739	.05	1.7	20	82	0
2,6-Dinitrotoluene	0.17	0.169	.05	0.6	20	83	0
Acenaphthylene	1.118	1.113	.05	0.4	20	80	0
Acenaphthene-d10	1	1	.05	0	20	84	0
Acenaphthene	1.237	1.258	.05	-1.7	20	80	0
2,4-Dinitrotoluene	0.369	0.394	.05	-6.8	20	82	0
Fluorene	1.478	1.492	.05	-0.9	20	79	0
2,4,6-Tribromophenol	0.221	0.227	.05	-2.7	20	79	0
Phenanthrene-d10	1	1	.05	0	20	81	0
4,6-Dinitro-o-cresol	1000	827.925	.05	17.2	20	71	0
Hexachlorobenzene	0.259	0.252	.05	2.7	20	75	0
Pentachlorophenol	1000	725.011	.05	27.5*	20	61	0
Phenanthrene	1.016	1.007	.05	0.9	20	76	0
Anthracene	1.008	1.025	.05	-1.7	20	78	0
Fluoranthene	1.339	1.287	.05	3.9	20	73	0
Pyrene	1.376	1.325	.05	3.7	20	74	0
4-Terphenyl-d14	0.981	0.761	.05	22.4*	20	61	0
Chrysene-d12	1	1	.05	0	20	69	0
Benzo[a]anthracene	1000	1090.528	.05	-9.1	20	68	0
3,3'-Dichlorobenzidine	0.604	0.572	.05	5.3	20	63	0
Chrysene	1.32	1.412	.05	-7	20	71	0
Bis(2-ethylhexyl)phthalate	1000	819.991	.05	18	20	67	0
Perylene-d12	1	1	.05	0	20	64	0
Benzo[b]fluoranthene	1.397	1.455	.05	-4.2	20	62	0
Benzo[k]fluoranthene	1.327	1.405	.05	-5.9	20	66	0
Benzo[a]pyrene	1.23	1.315	.05	-6.9	20	65	0
Indeno[1,2,3-cd]pyrene	1.337	1.342	.05	-0.4	20	61	0
Dibenzo[a,h]anthracene	1.244	1.185	.05	4.7	20	58	0
Benzo[g,h,i]perylene	1.36	1.328	.05	2.4	20	60	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Alpha Geoscience	**Lab Number**	: L2410579		
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116		
Instrument ID	: SV119	**Calibration Date**	: 03/05/24 06:33		
Lab File ID	: CCV0305	**Init. Calib. Date(s)**	: 12/07/23	12/07/23	
Sample No	: WG1892203-3	**Init. Calib. Times**	: 13:10	15:42	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,4-Dichlorobenzene-d4	1	1	.05	0	20	82	0
2-Fluorophenol	1.094	1.197	.05	-9.4	20	83	0
Phenol-d6	1.311	1.379	.05	-5.2	20	84	0
Bis(2-chloroethyl)ether	1.115	1.152	.05	-3.3	20	83	0
n-nitrosodi-n-propylamine	0.667	0.703	.05	-5.4	20	83	0
Hexachloroethane	0.495	0.52	.05	-5.1	20	84	0
Nitrobenzene-d5	0.995	1.089	.05	-9.4	20	84	0
Naphthalene-d8	1	1	.05	0	20	80	0
Naphthalene	0.955	0.991	.05	-3.8	20	80	0
Hexachlorobutadiene	0.206	0.237	.05	-15	20	88	0
2-Methylnaphthalene	0.706	0.72	.05	-2	20	77	0
1-Methylnaphthalene	0.651	0.644	.05	1.1	20	77	0
2-Fluorobiphenyl	0.893	0.901	.05	-0.9	20	77	0
2-Chloronaphthalene	0.752	0.756	.05	-0.5	20	79	0
2,6-Dinitrotoluene	0.17	0.186	.05	-9.4	20	86	0
Acenaphthylene	1.118	1.158	.05	-3.6	20	78	0
Acenaphthene-d10	1	1	.05	0	20	81	0
Acenaphthene	1.237	1.261	.05	-1.9	20	78	0
2,4-Dinitrotoluene	0.369	0.435	.05	-17.9	20	88	0
Fluorene	1.478	1.522	.05	-3	20	78	0
2,4,6-Tribromophenol	0.221	0.246	.05	-11.3	20	84	0
Phenanthrene-d10	1	1	.05	0	20	83	0
4,6-Dinitro-o-cresol	1000	986.317	.05	1.4	20	88	0
Hexachlorobenzene	0.259	0.255	.05	1.5	20	78	0
Pentachlorophenol	1000	777.078	.05	22.3*	20	67	0
Phenanthrene	1.016	1.022	.05	-0.6	20	79	0
Anthracene	1.008	1.034	.05	-2.6	20	80	0
Fluoranthene	1.339	1.392	.05	-4	20	80	0
Pyrene	1.376	1.438	.05	-4.5	20	82	0
4-Terphenyl-d14	0.981	0.853	.05	13	20	69	0
Chrysene-d12	1	1	.05	0	20	80	0
Benzo[a]anthracene	1000	1124.001	.05	-12.4	20	82	0
3,3'-Dichlorobenzidine	0.604	0.618	.05	-2.3	20	79	0
Chrysene	1.32	1.413	.05	-7	20	83	0
Bis(2-ethylhexyl)phthalate	1000	957.264	.05	4.3	20	92	0
Perylene-d12	1	1	.05	0	20	78	0
Benzo[b]fluoranthene	1.397	1.486	.05	-6.4	20	77	0
Benzo[k]fluoranthene	1.327	1.445	.05	-8.9	20	82	0
Benzo[a]pyrene	1.23	1.364	.05	-10.9	20	81	0
Indeno[1,2,3-cd]pyrene	1.337	1.434	.05	-7.3	20	78	0
Dibenzo[a,h]anthracene	1.244	1.266	.05	-1.8	20	75	0
Benzo[g,h,i]perylene	1.36	1.368	.05	-0.6	20	74	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Alpha Geoscience	**Lab Number**	: L2410579		
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116		
Instrument ID	: SV128	**Calibration Date**	: 03/05/24 06:57		
Lab File ID	: CCV0305A	**Init. Calib. Date(s)**	: 12/11/23	12/13/23	
Sample No	: WG1892213-3	**Init. Calib. Times**	: 13:27	07:14	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,4-Dichlorobenzene-d4	1	1	.05	0	20	52	0
2-Fluorophenol	1.007	0.966	.05	4.1	20	48	0
Phenol-d6	1.177	1.296	.05	-10.1	20	55	0
Bis(2-chloroethyl)ether	1.005	1.094	.05	-8.9	20	56	0
n-nitrosodi-n-propylamine	0.702	0.78	.05	-11.1	20	55	0
Hexachloroethane	0.478	0.463	.05	3.1	20	49	0
Nitrobenzene-d5	0.951	1.199	.05	-26.1*	20	62	0
Naphthalene-d8	1	1	.05	0	20	56	0
Naphthalene	1.026	1.033	.05	-0.7	20	55	0
Hexachlorobutadiene	0.235	0.227	.05	3.4	20	55	0
2-Methylnaphthalene	0.655	0.723	.05	-10.4	20	59	0
1-Methylnaphthalene	0.617	0.672	.05	-8.9	20	59	0
2-Fluorobiphenyl	0.848	0.989	.05	-16.6	20	62	0
2-Chloronaphthalene	0.713	0.828	.05	-16.1	20	62	0
2,6-Dinitrotoluene	1000	1588.617	.05	-58.9*	20	95	0
Acenaphthylene	1.057	1.261	.05	-19.3	20	62	0
Acenaphthene-d10	1	1	.05	0	20	67	0
Acenaphthene	1.352	1.332	.05	1.5	20	64	0
2,4-Dinitrotoluene	1000	1360.545	.05	-36.1*	20	98	0
Fluorene	1.365	1.51	.05	-10.6	20	69	0
2,4,6-Tribromophenol	0.2	0.257	.05	-28.5*	20	80	0
Phenanthrene-d10	1	1	.05	0	20	78	0
4,6-Dinitro-o-cresol	1000	1167.879	.05	-16.8	20	107	0
Hexachlorobenzene	0.266	0.244	.05	8.3	20	72	0
Pentachlorophenol	1000	1028.447	.05	-2.8	20	78	0
Phenanthrene	1.082	1.042	.05	3.7	20	75	0
Anthracene	1.045	1.03	.05	1.4	20	75	0
Fluoranthene	1.188	1.345	.05	-13.2	20	84	0
Pyrene	1.23	1.465	.05	-19.1	20	85	0
4-Terphenyl-d14	0.833	1.023	.05	-22.8*	20	89	0
Chrysene-d12	1	1	.05	0	20	96	0
Benzo[a]anthracene	1000	922.507	.05	7.7	20	90	0
3,3'-Dichlorobenzidine	1000	843.538	.05	15.6	20	88	0
Chrysene	1.379	1.37	.05	0.7	20	92	0
Bis(2-ethylhexyl)phthalate	1000	806.686	.05	19.3	20	89	0
Perylene-d12	1	1	.05	0	20	92	0
Benzo[b]fluoranthene	1.239	1.231	.05	0.6	20	90	0
Benzo[k]fluoranthene	1.153	1.184	.05	-2.7	20	92	0
Benzo[a]pyrene	1.091	1.092	.05	-0.1	20	89	0
Indeno[1,2,3-cd]pyrene	1.091	1.144	.05	-4.9	20	93	0
Dibenzo[a,h]anthracene	1.059	1.136	.05	-7.3	20	90	0
Benzo[g,h,i]perylene	1.134	1.127	.05	0.6	20	85	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Alpha Geoscience	**Lab Number**	: L2410579		
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116		
Instrument ID	: SV119	**Calibration Date**	: 03/05/24 21:16		
Lab File ID	: CCV0305N	**Init. Calib. Date(s)**	: 12/07/23	12/07/23	
Sample No	: WG1892573-3	**Init. Calib. Times**	: 13:10	15:42	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,4-Dichlorobenzene-d4	1	1	.05	0	20	87	0
2-Fluorophenol	1.094	1.149	.05	-5	20	85	0
Phenol-d6	1.311	1.357	.05	-3.5	20	88	0
Bis(2-chloroethyl)ether	1.115	1.12	.05	-0.4	20	87	0
n-nitrosodi-n-propylamine	0.667	0.708	.05	-6.1	20	89	0
Hexachloroethane	0.495	0.496	.05	-0.2	20	86	0
Nitrobenzene-d5	0.995	1.105	.05	-11.1	20	92	0
Naphthalene-d8	1	1	.05	0	20	88	0
Naphthalene	0.955	0.957	.05	-0.2	20	84	0
Hexachlorobutadiene	0.206	0.221	.05	-7.3	20	89	0
2-Methylnaphthalene	0.706	0.704	.05	0.3	20	82	0
1-Methylnaphthalene	0.651	0.629	.05	3.4	20	81	0
2-Fluorobiphenyl	0.893	0.868	.05	2.8	20	81	0
2-Chloronaphthalene	0.752	0.739	.05	1.7	20	84	0
2,6-Dinitrotoluene	0.17	0.19	.05	-11.8	20	95	0
Acenaphthylene	1.118	1.132	.05	-1.3	20	84	0
Acenaphthene-d10	1	1	.05	0	20	90	0
Acenaphthene	1.237	1.214	.05	1.9	20	84	0
2,4-Dinitrotoluene	0.369	0.441	.05	-19.5	20	99	0
Fluorene	1.478	1.492	.05	-0.9	20	85	0
2,4,6-Tribromophenol	0.221	0.244	.05	-10.4	20	92	0
Phenanthrene-d10	1	1	.05	0	20	95	0
4,6-Dinitro-o-cresol	1000	1010.711	.05	-1.1	20	104	0
Hexachlorobenzene	0.259	0.244	.05	5.8	20	86	0
Pentachlorophenol	1000	826.978	.05	17.3	20	82	0
Phenanthrene	1.016	0.982	.05	3.3	20	88	0
Anthracene	1.008	0.978	.05	3	20	87	0
Fluoranthene	1.339	1.333	.05	0.4	20	89	0
Pyrene	1.376	1.368	.05	0.6	20	91	0
4-Terphenyl-d14	0.981	0.806	.05	17.8	20	76	0
Chrysene-d12	1	1	.05	0	20	91	0
Benzo[a]anthracene	1000	1066.469	.05	-6.6	20	87	0
3,3'-Dichlorobenzidine	0.604	0.602	.05	0.3	20	87	0
Chrysene	1.32	1.345	.05	-1.9	20	89	0
Bis(2-ethylhexyl)phthalate	1000	913.333	.05	8.7	20	99	0
Perylene-d12	1	1	.05	0	20	85	0
Benzo[b]fluoranthene	1.397	1.45	.05	-3.8	20	82	0
Benzo[k]fluoranthene	1.327	1.368	.05	-3.1	20	84	0
Benzo[a]pyrene	1.23	1.304	.05	-6	20	85	0
Indeno[1,2,3-cd]pyrene	1.337	1.374	.05	-2.8	20	82	0
Dibenzo[a,h]anthracene	1.244	1.198	.05	3.7	20	77	0
Benzo[g,h,i]perylene	1.36	1.301	.05	4.3	20	77	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Alpha Geoscience	**Lab Number**	: L2410579		
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116		
Instrument ID	: SV119	**Calibration Date**	: 03/06/24 06:56		
Lab File ID	: CCV0306	**Init. Calib. Date(s)**	: 12/07/23	12/07/23	
Sample No	: WG1892736-3	**Init. Calib. Times**	: 13:10	15:42	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,4-Dichlorobenzene-d4	1	1	.05	0	20	105	0
2-Fluorophenol	1.094	1.188	.05	-8.6	20	105	0
Phenol-d6	1.311	1.43	.05	-9.1	20	112	0
Bis(2-chloroethyl)ether	1.115	1.206	.05	-8.2	20	112	0
n-nitrosodi-n-propylamine	0.667	0.772	.05	-15.7	20	116	0
Hexachloroethane	0.495	0.53	.05	-7.1	20	110	0
Nitrobenzene-d5	0.995	1.187	.05	-19.3	20	118	0
Naphthalene-d8	1	1	.05	0	20	107	0
Naphthalene	0.955	0.997	.05	-4.4	20	107	0
Hexachlorobutadiene	0.206	0.233	.05	-13.1	20	115	0
2-Methylnaphthalene	0.706	0.743	.05	-5.2	20	106	0
1-Methylnaphthalene	0.651	0.662	.05	-1.7	20	105	0
2-Fluorobiphenyl	0.893	0.927	.05	-3.8	20	106	0
2-Chloronaphthalene	0.752	0.777	.05	-3.3	20	107	0
2,6-Dinitrotoluene	0.17	0.208	.05	-22.4*	20	128	0
Acenaphthylene	1.118	1.217	.05	-8.9	20	110	0
Acenaphthene-d10	1	1	.05	0	20	110	0
Acenaphthene	1.237	1.278	.05	-3.3	20	107	0
2,4-Dinitrotoluene	0.369	0.477	.05	-29.3*	20	130	0
Fluorene	1.478	1.582	.05	-7	20	110	0
2,4,6-Tribromophenol	0.221	0.262	.05	-18.6	20	120	0
Phenanthrene-d10	1	1	.05	0	20	113	0
4,6-Dinitro-o-cresol	1000	1092.793	.05	-9.3	20	134	0
Hexachlorobenzene	0.259	0.261	.05	-0.8	20	108	0
Pentachlorophenol	1000	934.627	.05	6.5	20	110	0
Phenanthrene	1.016	1.023	.05	-0.7	20	108	0
Anthracene	1.008	1.04	.05	-3.2	20	110	0
Fluoranthene	1.339	1.377	.05	-2.8	20	109	0
Pyrene	1.376	1.401	.05	-1.8	20	110	0
4-Terphenyl-d14	0.981	0.829	.05	15.5	20	92	0
Chrysene-d12	1	1	.05	0	20	100	0
Benzo[a]anthracene	1000	1144.104	.05	-14.4	20	104	0
3,3'-Dichlorobenzidine	0.604	0.645	.05	-6.8	20	103	0
Chrysene	1.32	1.412	.05	-7	20	104	0
Bis(2-ethylhexyl)phthalate	1000	1011.732	.05	-1.2	20	122	0
Perylene-d12	1	1	.05	0	20	89	0
Benzo[b]fluoranthene	1.397	1.604	.05	-14.8	20	95	0
Benzo[k]fluoranthene	1.327	1.435	.05	-8.1	20	93	0
Benzo[a]pyrene	1.23	1.405	.05	-14.2	20	96	0
Indeno[1,2,3-cd]pyrene	1.337	1.455	.05	-8.8	20	91	0
Dibenzo[a,h]anthracene	1.244	1.243	.05	0.1	20	85	0
Benzo[g,h,i]perylene	1.36	1.337	.05	1.7	20	84	0

*** Value outside of QC limits.**

Evaluate Continuing Calibration Report

Data Path : I:\8270SIM\sv119\240306LVI\
Data File : ccv0306.D
Acq On : 06 Mar 2024 06:56 am
Operator : sv119:jjw
Sample : WG1892736-3,32,, ICV 10475 (0303)
Misc : WG1892736,,ical20642
ALS Vial : 49 Sample Multiplier: 1

Quant Time: Mar 06 07:14:35 2024
Quant Method : I:\8270SIM\sv119\240306LVI\SIM-LVI_231207n_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Mar 06 07:14:44 2024
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	i	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	105	0.00
2	s	2-Fluorophenol	1.094	1.188	-8.6	105	0.00
3	s	Phenol-d6	1.311	1.430	-9.1	112	0.00
4	T	Bis(2-chloroethyl)ether	1.115	1.206	-8.2	112	0.00
5	T	n-nitrosodi-n-propylamine	0.667	0.772	-15.7	116	0.00
6	t	Hexachloroethane	0.495	0.530	-7.1	110	0.00
7	s	Nitrobenzene-d5	0.995	1.187	-19.3	118	0.00
8	i	Naphthalene-d8	1.000	1.000	0.0	107	0.00
9	t	Naphthalene	0.955	0.997	-4.4	107	0.00
10	t	Hexachlorobutadiene	0.206	0.233	-13.1	115	0.00
11	t	2-Methylnaphthalene	0.706	0.743	-5.2	106	0.00
12	t	1-Methylnaphthalene	0.651	0.662	-1.7	105	0.00
13	s	2-Fluorobiphenyl	0.893	0.927	-3.8	106	0.00
14	t	2-Chloronaphthalene	0.752	0.777	-3.3	107	0.00
15	t	2,6-Dinitrotoluene	0.170	0.208	-22.4#	128	0.00
16	t	Acenaphthylene	1.118	1.217	-8.9	110	0.00
17	i	Acenaphthene-d10	1.000	1.000	0.0	110	0.00
18	t	Acenaphthene	1.237	1.278	-3.3	107	0.00
19	t	2,4-Dinitrotoluene	0.369	0.477	-29.3#	130	0.00
20	t	Fluorene	1.478	1.582	-7.0	110	0.00
21	s	2,4,6-Tribromophenol	0.221	0.262	-18.6	120	0.00
22	i	Phenanthrene-d10	1.000	1.000	0.0	113	0.00
23	T	4,6-Dinitro-o-cresol	*1000.000	1092.793	-9.3	134	0.00
24	t	Hexachlorobenzene	0.259	0.261	-0.8	108	0.00
25	t	Pentachlorophenol	*1000.000	934.627	6.5	110	0.00
26	t	Phenanthrene	1.016	1.023	-0.7	108	0.00
27	t	Anthracene	1.008	1.040	-3.2	110	0.00
28	t	Fluoranthene	1.339	1.377	-2.8	109	0.00
29	t	Pyrene	1.376	1.401	-1.8	110	0.00
30	s	4-Terphenyl-d14	0.981	0.829	15.5	92	0.00
31	i	Chrysene-d12	1.000	1.000	0.0	100	0.00
32	t	Benzo[a]anthracene	*1000.000	1144.104	-14.4	104	0.00
33	t	3,3'-Dichlorobenzidine	0.604	0.645	-6.8	103	0.00
34	t	Chrysene	1.320	1.412	-7.0	104	0.00
35	T	Bis(2-ethylhexyl)phthalate	*1000.000	1011.732	-1.2	122	0.00

Evaluate Continuing Calibration Report

Data Path : I:\8270SIM\sv119\240306LVI\
Data File : ccv0306.D
Acq On : 06 Mar 2024 06:56 am
Operator : sv119:jjw
Sample : WG1892736-3,32,, ICV 10475 (0303)
Misc : WG1892736,,ical20642
ALS Vial : 49 Sample Multiplier: 1

Quant Time: Mar 06 07:14:35 2024
Quant Method : I:\8270SIM\sv119\240306LVI\SIM-LVI_231207n_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Mar 06 07:14:44 2024
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
36	i	Perylene-d12	1.000	1.000	0.0	89	0.00
37	t	Benzo[b]fluoranthene	1.397	1.604	-14.8	95	0.00
38	t	Benzo[k]fluoranthene	1.327	1.435	-8.1	93	0.00
39	t	Benzo[a]pyrene	1.230	1.405	-14.2	96	0.00
40	t	Indeno[1,2,3-cd]pyrene	1.337	1.455	-8.8	91	0.00
41	t	Dibenzo[a,h]anthracene	1.244	1.243	0.1	85	0.00
42	t	Benzo[g,h,i]perylene	1.360	1.337	1.7	84	0.00

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\240306LVI\
Data File : ccv0306.D
Acq On : 06 Mar 2024 06:56 am
Operator : sv119:jjw
Sample : WG1892736-3,32,, ICV 10475 (0303)
Misc : WG1892736,,ical20642
ALS Vial : 49 Sample Multiplier: 1

Quant Time: Mar 06 07:14:35 2024
Quant Method : I:\8270SIM\sv119\240306LVI\SIM-LVI_231207n_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Mar 06 07:14:44 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.131	152	46268	4000.000	ng/ml	0.00
8) Naphthalene-d8	2.793	136	165599	4000.000	ng/ml	0.00
17) Acenaphthene-d10	3.761	164	97417	4000.000	ng/ml	0.00
22) Phenanthrene-d10	4.592	188	225040	4000.000	ng/ml	0.00
31) Chrysene-d12	6.174	240	198834	4000.000	ng/ml	0.00
36) Perylene-d12	7.294	264	192010	4000.000	ng/ml	0.00
System Monitoring Compounds						
2) 2-Fluorophenol	1.535	112	13741	1085.810	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 21.72%			
3) Phenol-d6	1.949	99	16539	1090.277	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 21.81%			
7) Nitrobenzene-d5	2.413	82	13730	1193.215	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 47.73%			
13) 2-Fluorobiphenyl	3.388	172	38382	1037.782	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 41.51%			
21) 2,4,6-Tribromophenol	4.203	330	6374	1186.798	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 23.74%			
30) 4-Terphenyl-d14	5.527	244	46612	844.916	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 33.80%			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	1.997	93	13952	1081.485	ng/ml	97
5) n-nitrosodi-n-propylamine	2.333	70	8925	1156.727	ng/ml	93
6) Hexachloroethane	2.391	117	6132	1071.342	ng/ml	82
9) Naphthalene	2.805	128	41294	1044.315	ng/ml	100
10) Hexachlorobutadiene	2.878	225	9650	1133.210	ng/ml	99
11) 2-Methylnaphthalene	3.183	142	30742	1051.487	ng/ml	97
12) 1-Methylnaphthalene	3.235	142	27396	1016.140	ng/ml	97
14) 2-Chloronaphthalene	3.449	162	32149	1032.299	ng/ml	96
15) 2,6-Dinitrotoluene	3.643	165	8628	1226.906	ng/ml#	75
16) Acenaphthylene	3.680	152	50399	1088.992	ng/ml	100
18) Acenaphthene	3.778	153	31122	1033.406	ng/ml	99
19) 2,4-Dinitrotoluene	3.868	165	11619	1294.016	ng/ml#	77
20) Fluorene	4.066	166	38533	1070.425	ng/ml	97
23) 4,6-Dinitro-o-cresol	4.097	198	7117	1092.793	ng/ml	96
24) Hexachlorobenzene	4.381	284	14667	1008.159	ng/ml	96
25) Pentachlorophenol	4.493	266	8595	934.627	ng/ml	99
26) Phenanthrene	4.606	178	57572	1007.136	ng/ml	100
27) Anthracene	4.635	178	58495	1031.885	ng/ml	100

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\240306LVI\
Data File : ccv0306.D
Acq On : 06 Mar 2024 06:56 am
Operator : sv119:jjw
Sample : WG1892736-3,32,, ICV 10475 (0303)
Misc : WG1892736,,ical20642
ALS Vial : 49 Sample Multiplier: 1

Quant Time: Mar 06 07:14:35 2024
Quant Method : I:\8270SIM\sv119\240306LVI\SIM-LVI_231207n_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Mar 06 07:14:44 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
28) Fluoranthene	5.291	202	77461	1028.154	ng/ml	96
29) Pyrene	5.424	202	78834	1018.517	ng/ml	99
32) Benzo[a]anthracene	6.168	228	76195	1144.104	ng/ml	99
33) 3,3'-Dichlorobenzidine	6.159	252	32059	1067.225	ng/ml	99
34) Chrysene	6.189	228	70200	1069.751	ng/ml	100
35) Bis(2-ethylhexyl)phtha...	6.206	149	44082	1011.732	ng/ml	97
37) Benzo[b]fluoranthene	6.951	252	77005	1147.960	ng/ml	100
38) Benzo[k]fluoranthene	6.973	252	68892	1081.569	ng/ml	100
39) Benzo[a]pyrene	7.237	252	67428	1141.980	ng/ml	100
40) Indeno[1,2,3-cd]pyrene	8.427	276	69850	1088.487	ng/ml	99
41) Dibenzo[a,h]anthracene	8.465	278	59665	999.330	ng/ml	100
42) Benzo[g,h,i]perylene	8.747	276	64193	983.424	ng/ml	99

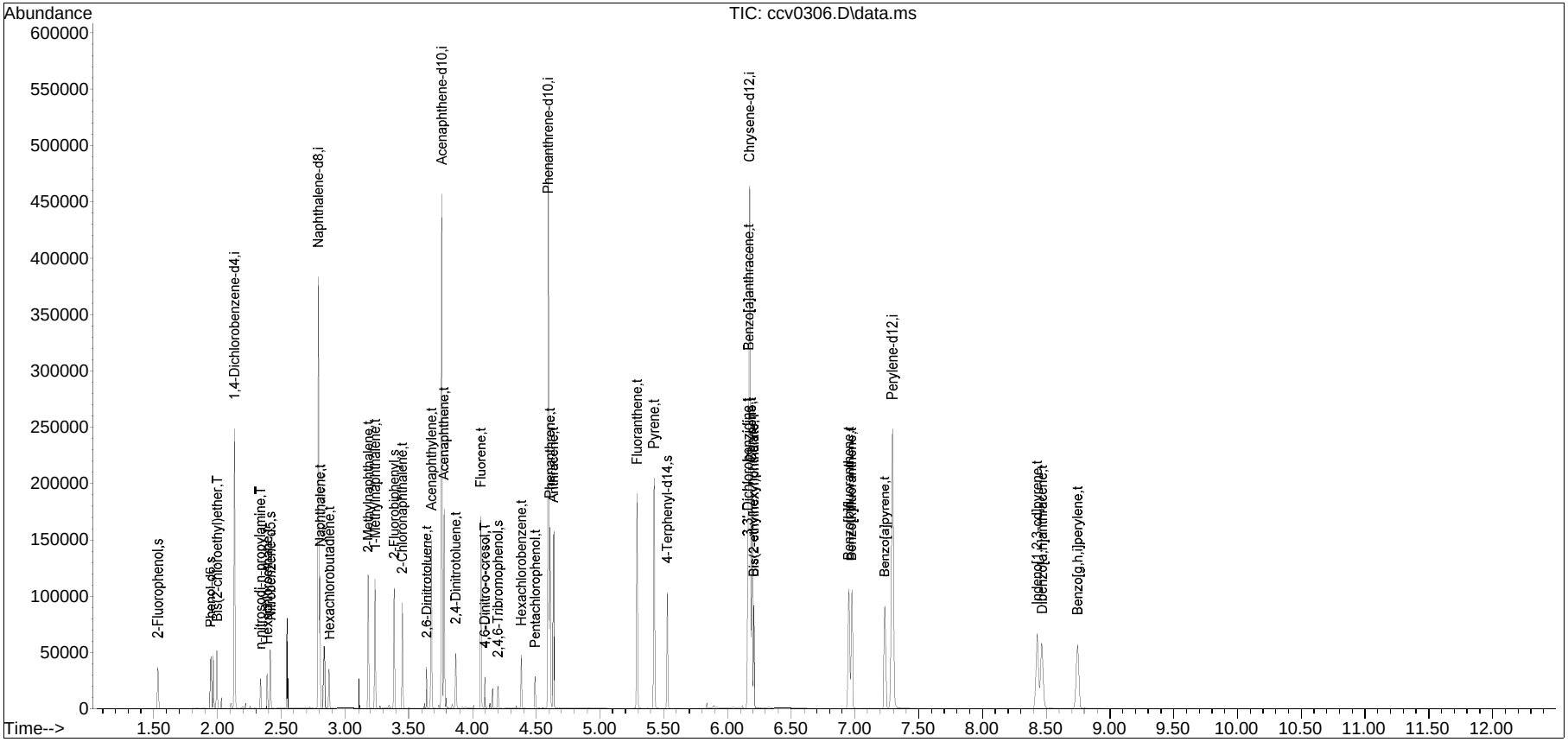
(#) = qualifier out of range (m) = manual integration (+) = signals summed

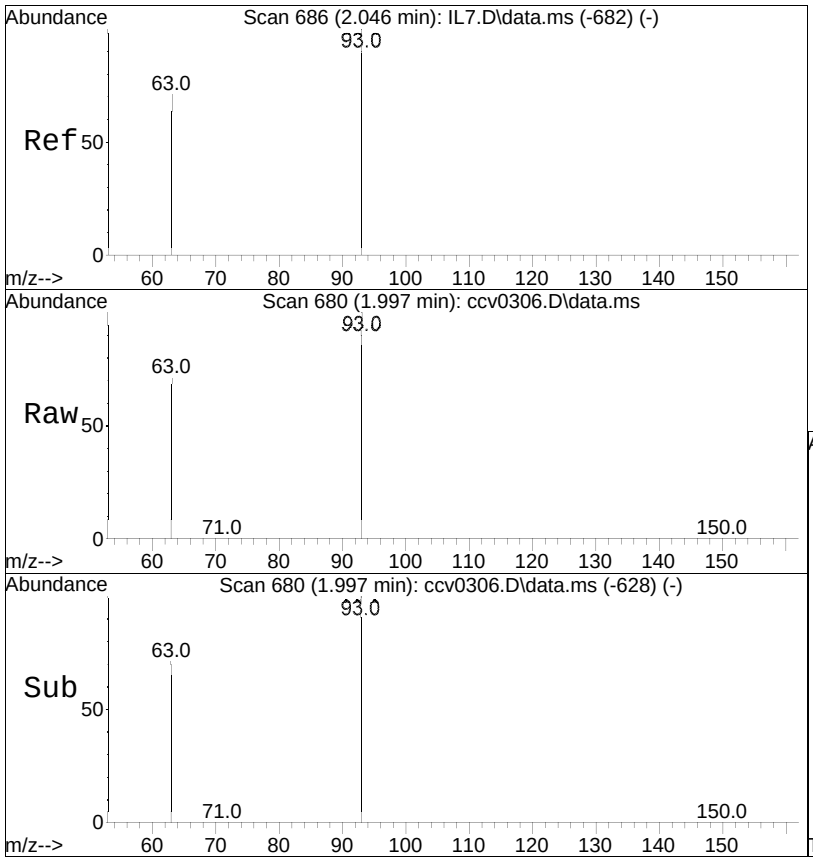
Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\240306LVI\
Data File : ccv0306.D
Acq On : 06 Mar 2024 06:56 am
Operator : sv119:jjw
Sample : WG1892736-3,32,, ICV 10475 (0303)
Misc : WG1892736,,ical20642
ALS Vial : 49 Sample Multiplier: 1

Quant Time: Mar 06 07:14:35 2024
Quant Method : I:\8270SIM\sv119\240306LVI\SIM-LVI_231207n_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Mar 06 07:14:44 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

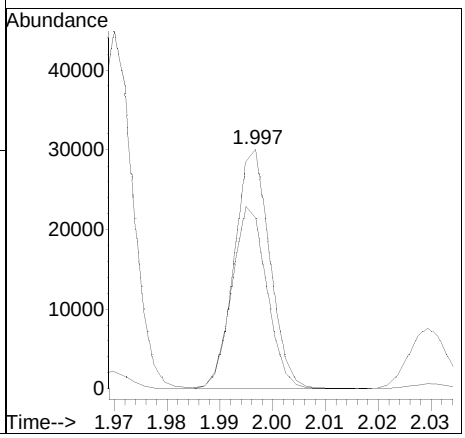


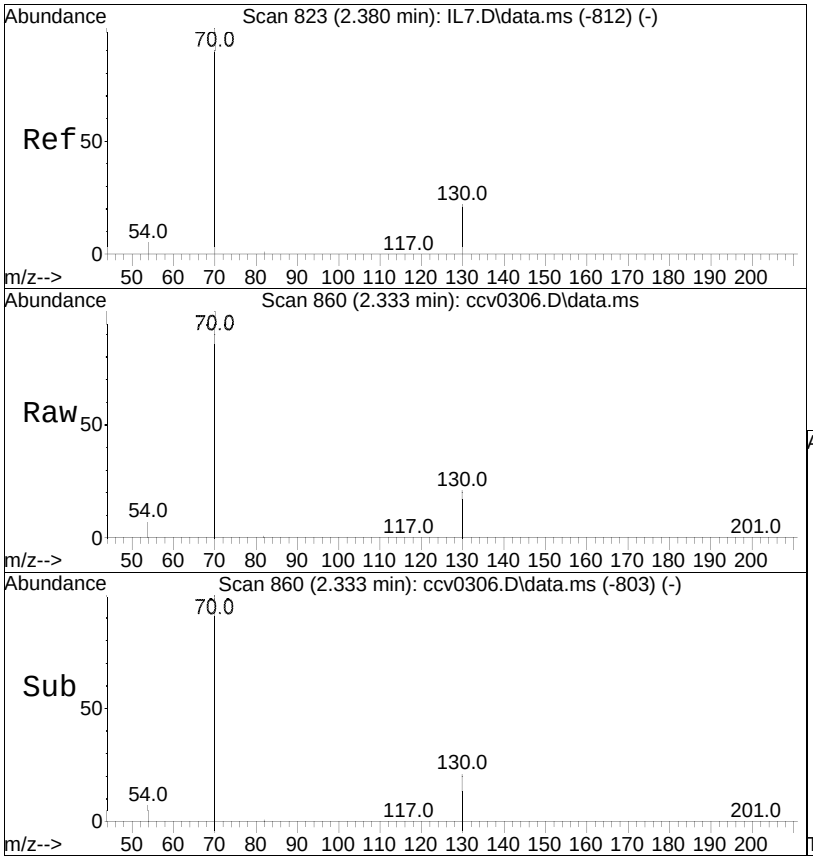


#4
Bis(2-chloroethyl)ether
Concen: 1081.48 ng/ml
RT: 1.997 min Scan# 680
Delta R.T. 0.000 min
Lab File: ccv0306.D
Acq: 06 Mar 2024 06:56 am

Tgt Ion: 93 Resp: 13952

Ion	Ratio	Lower	Upper
93	100		
63	75.6	62.6	94.0

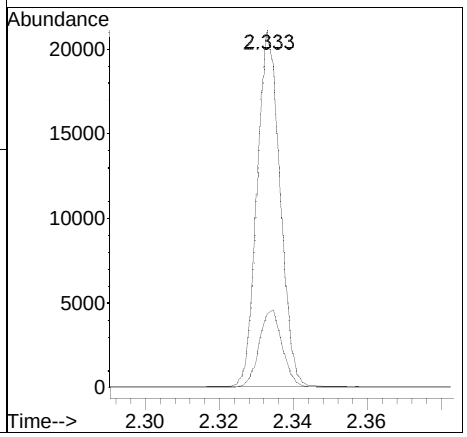


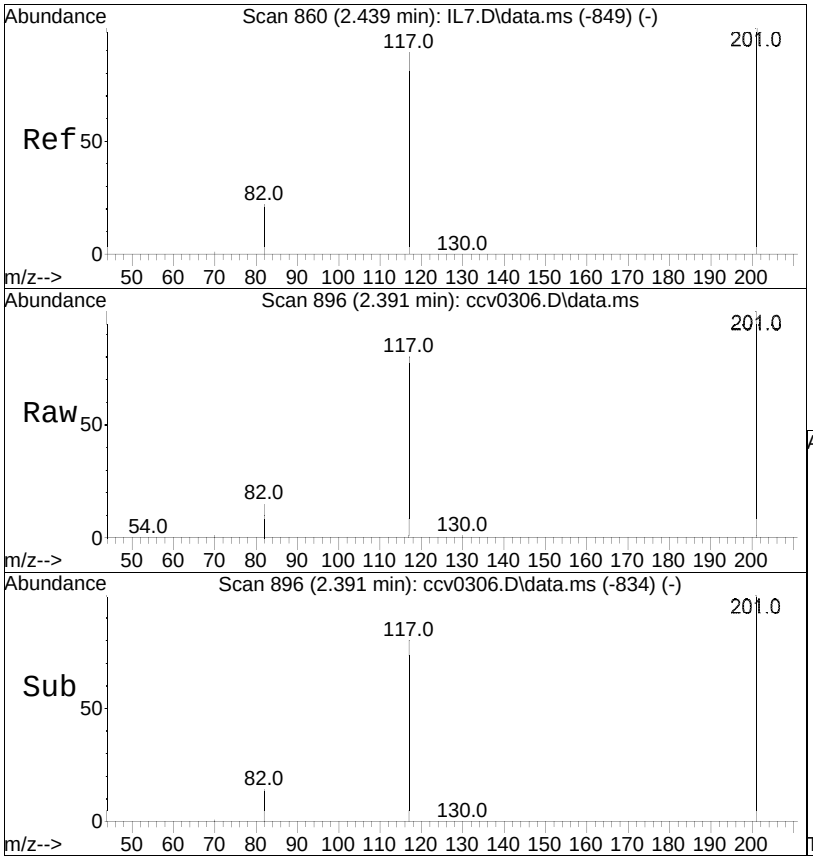


#5
n-nitrosodi-n-propylamine
Concen: 1156.73 ng/ml
RT: 2.333 min Scan# 860
Delta R.T. 0.000 min
Lab File: ccv0306.D
Acq: 06 Mar 2024 06:56 am

Tgt Ion: 70 Resp: 8925

Ion	Ratio	Lower	Upper
70	100		
130	21.8	15.0	22.6

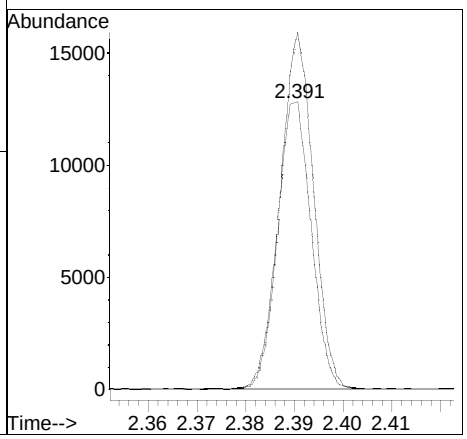


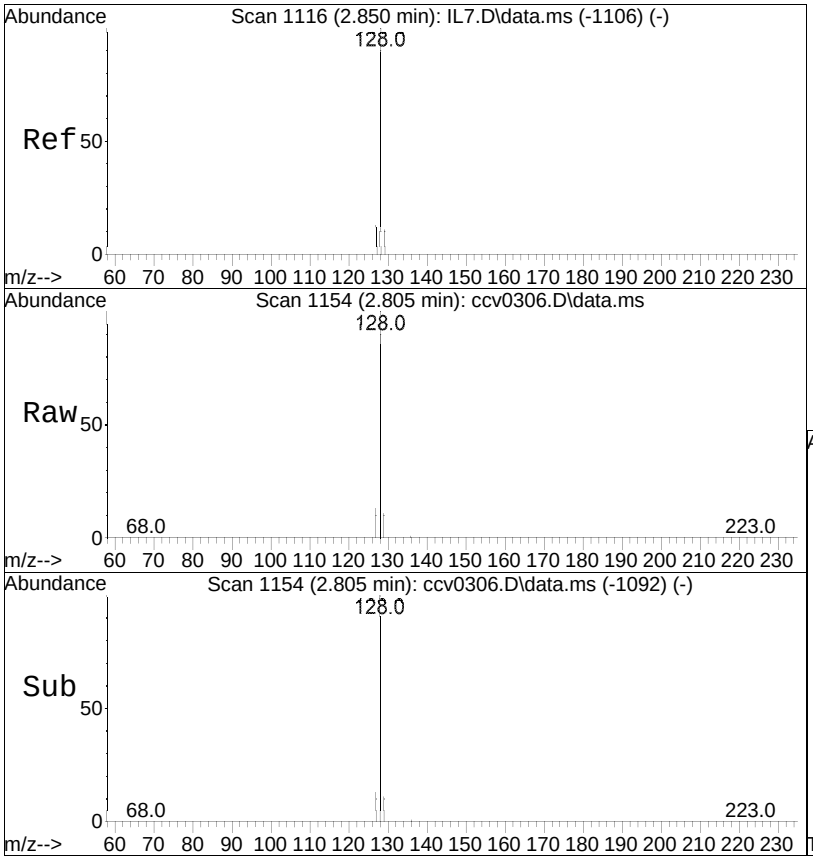


#6
Hexachloroethane
Concen: 1071.34 ng/ml
RT: 2.391 min Scan# 896
Delta R.T. 0.000 min
Lab File: ccv0306.D
Acq: 06 Mar 2024 06:56 am

Tgt Ion:117 Resp: 6132

Ion	Ratio	Lower	Upper
117	100		
201	120.1	81.5	122.3

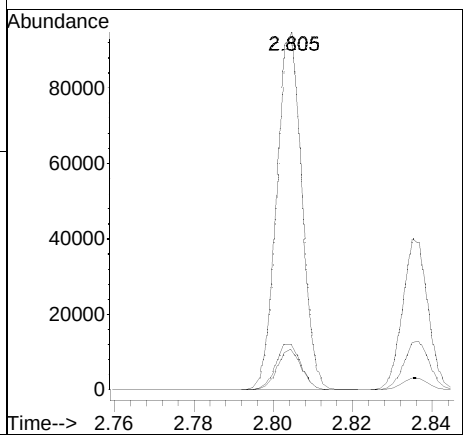


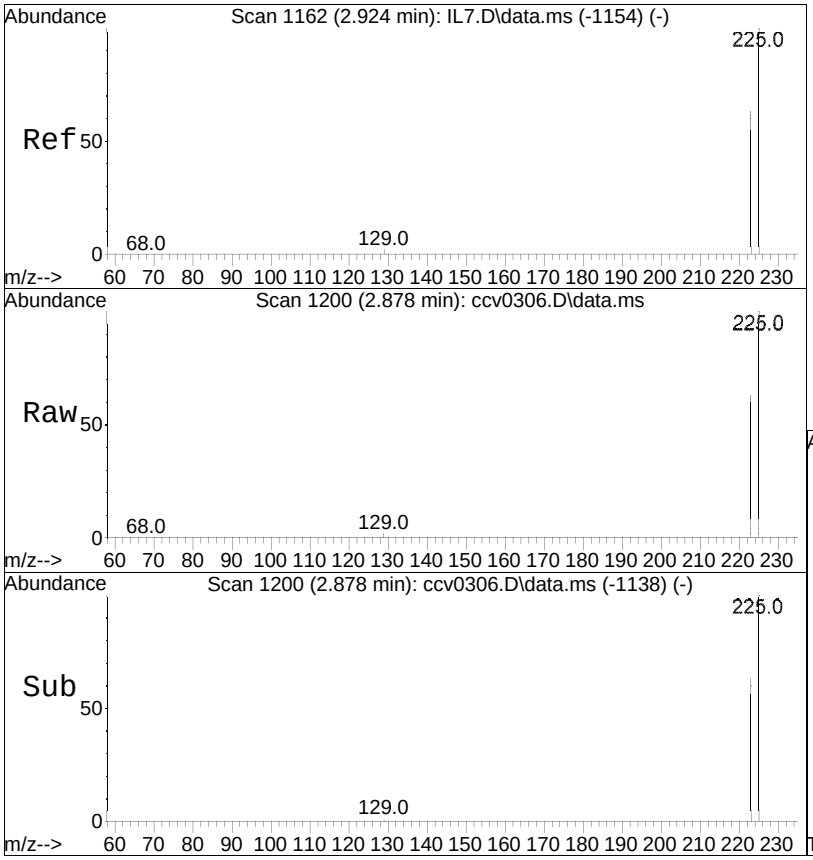


#9
Naphthalene
Concen: 1044.31 ng/ml
RT: 2.805 min Scan# 1154
Delta R.T. 0.000 min
Lab File: ccv0306.D
Acq: 06 Mar 2024 06:56 am

Tgt Ion:128 Resp: 41294

Ion	Ratio	Lower	Upper
128	100		
129	11.0	8.8	13.2
127	13.0	10.6	15.8

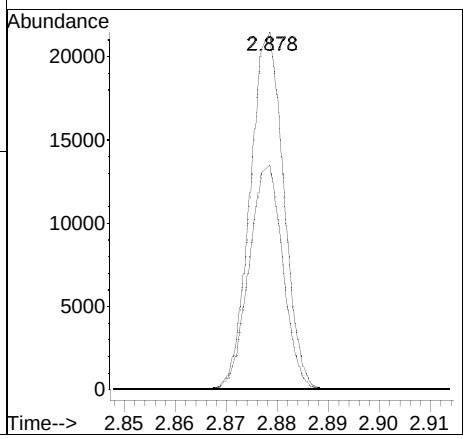


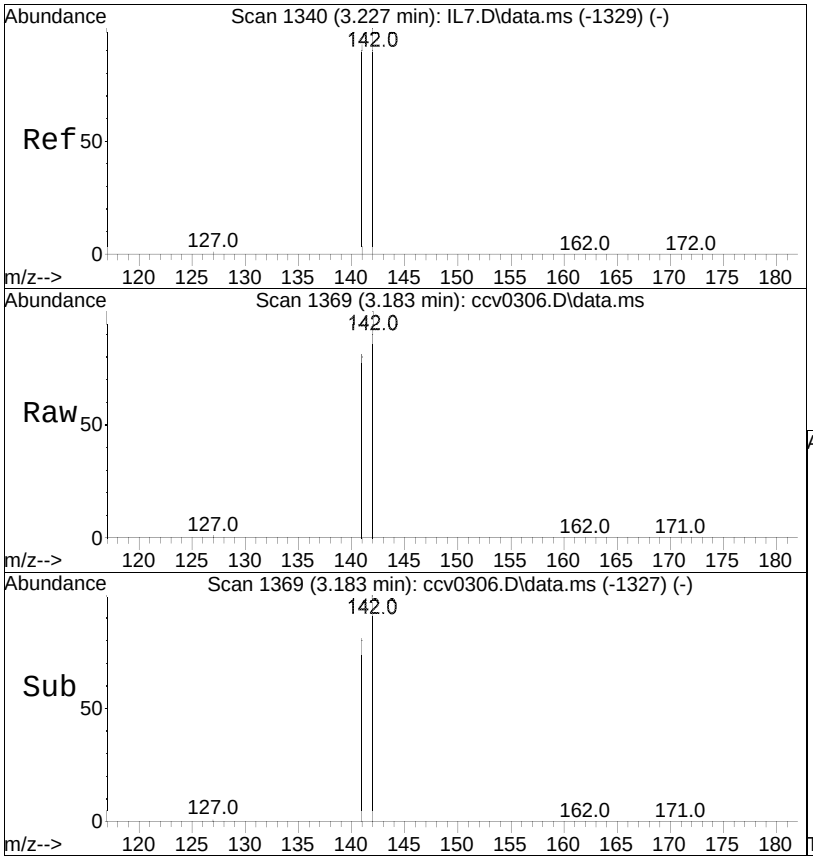


#10
Hexachlorobutadiene
Concen: 1133.21 ng/ml
RT: 2.878 min Scan# 1200
Delta R.T. 0.000 min
Lab File: ccv0306.D
Acq: 06 Mar 2024 06:56 am

Tgt Ion:225 Resp: 9650

Ion	Ratio	Lower	Upper
225	100		
223	63.0	50.1	75.1

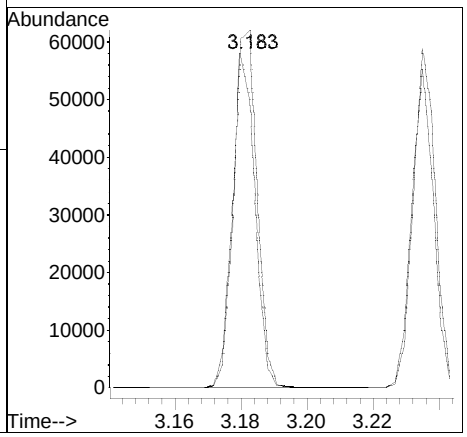


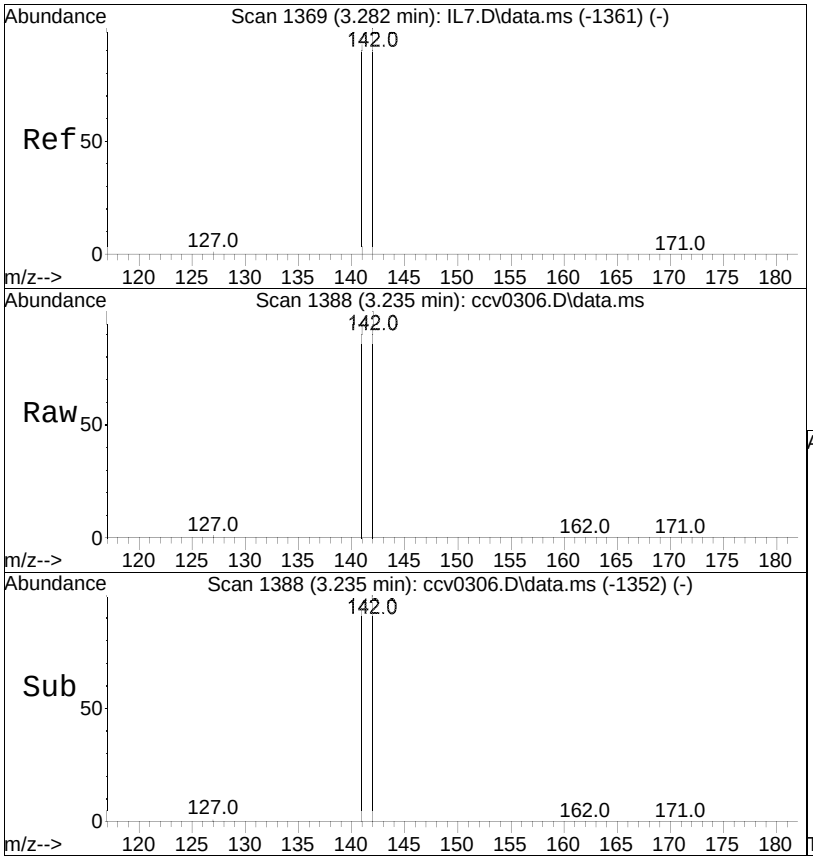


#11
2-Methylnaphthalene
Concen: 1051.49 ng/ml
RT: 3.183 min Scan# 1369
Delta R.T. 0.000 min
Lab File: ccv0306.D
Acq: 06 Mar 2024 06:56 am

Tgt Ion:142 Resp: 30742

Ion	Ratio	Lower	Upper
142	100		
141	89.3	74.1	111.1

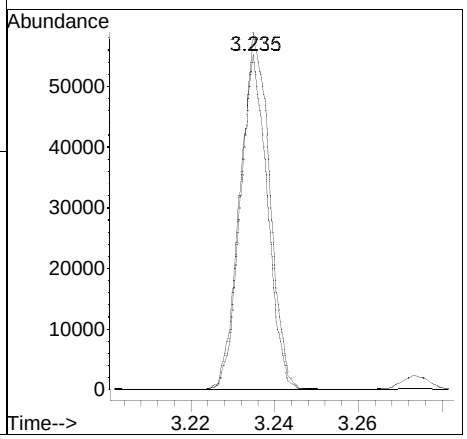


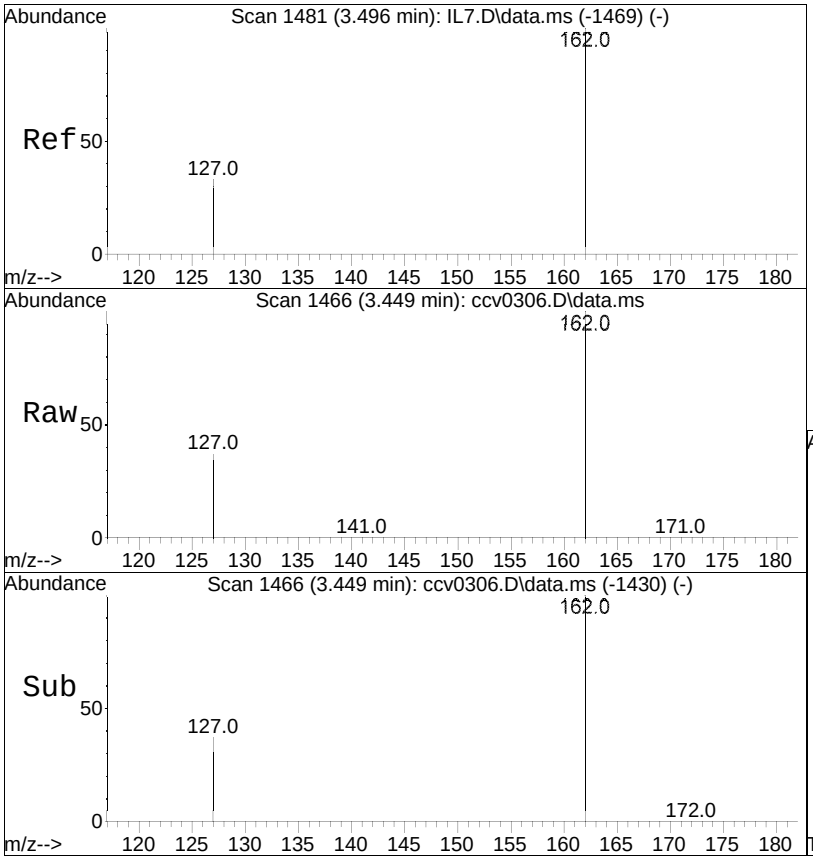


#12
1-Methylnaphthalene
Concen: 1016.14 ng/ml
RT: 3.235 min Scan# 1388
Delta R.T. 0.000 min
Lab File: ccv0306.D
Acq: 06 Mar 2024 06:56 am

Tgt Ion:142 Resp: 27396

Ion	Ratio	Lower	Upper
142	100		
141	92.5	76.6	114.8

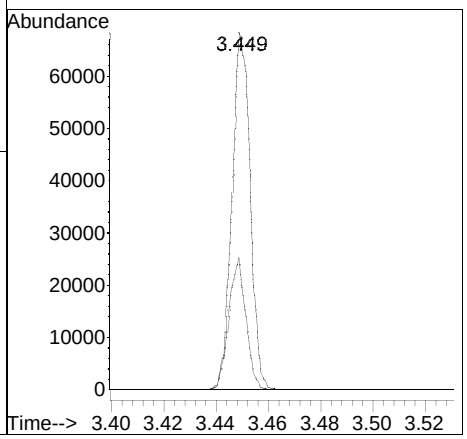


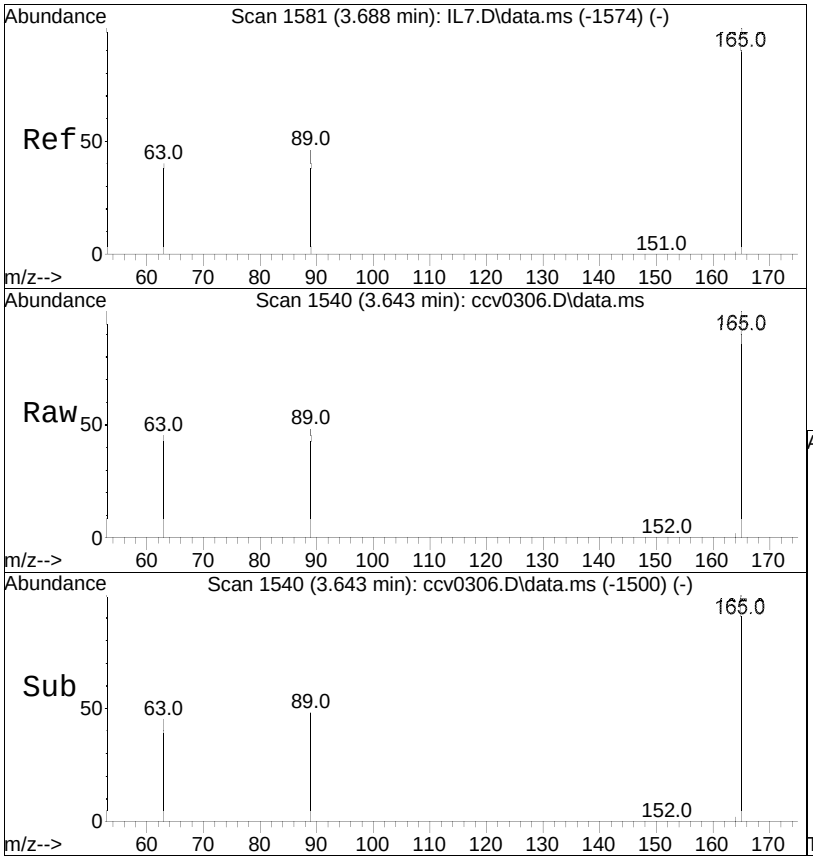


#14
2-Chloronaphthalene
Concen: 1032.30 ng/ml
RT: 3.449 min Scan# 1466
Delta R.T. 0.000 min
Lab File: ccv0306.D
Acq: 06 Mar 2024 06:56 am

Tgt Ion:162 Resp: 32149

Ion	Ratio	Lower	Upper
162	100		
127	34.9	29.7	44.5

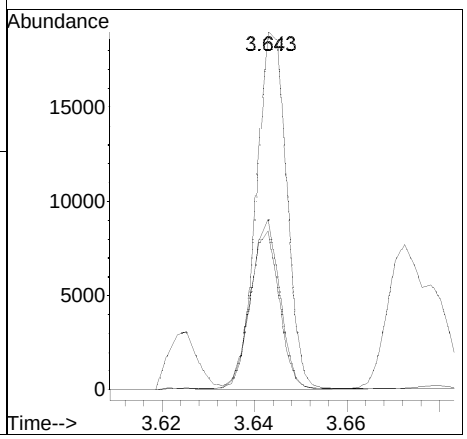


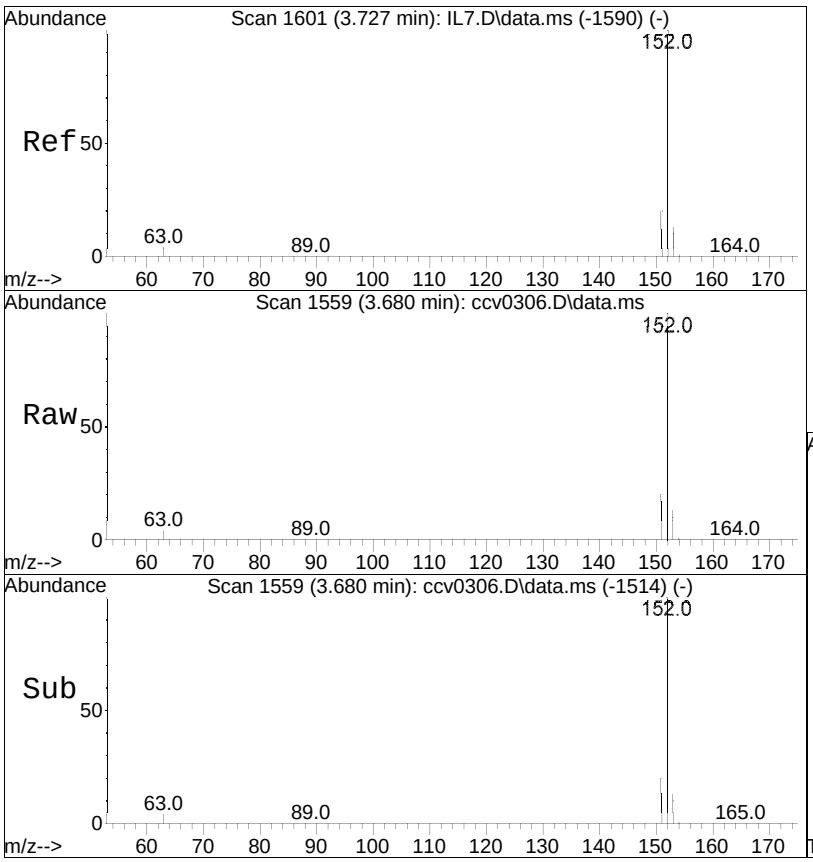


#15
2,6-Dinitrotoluene
Concen: 1226.91 ng/ml
RT: 3.643 min Scan# 1540
Delta R.T. 0.000 min
Lab File: ccv0306.D
Acq: 06 Mar 2024 06:56 am

Tgt Ion:165 Resp: 8628

Ion	Ratio	Lower	Upper
165	100		
89	45.9	52.8	79.2#
63	43.6	50.9	76.3#

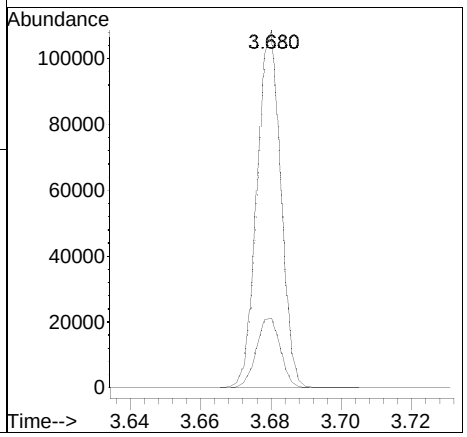


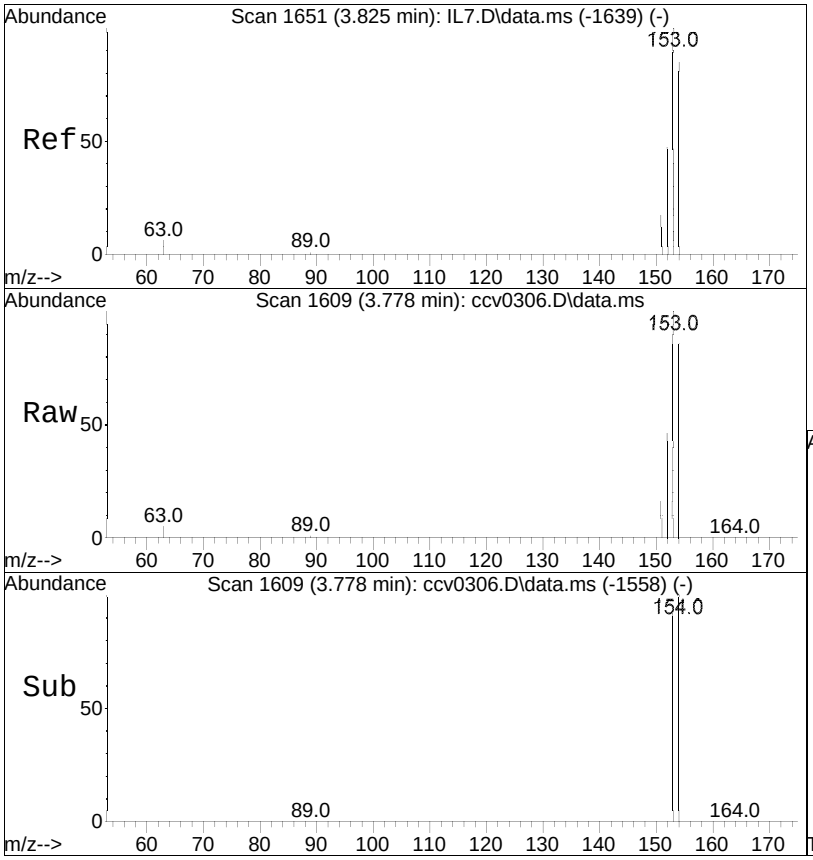


#16
Acenaphthylene
Concen: 1088.99 ng/ml
RT: 3.680 min Scan# 1559
Delta R.T. 0.000 min
Lab File: ccv0306.D
Acq: 06 Mar 2024 06:56 am

Tgt Ion:152 Resp: 50399

Ion	Ratio	Lower	Upper
152	100		
151	19.8	16.0	24.0

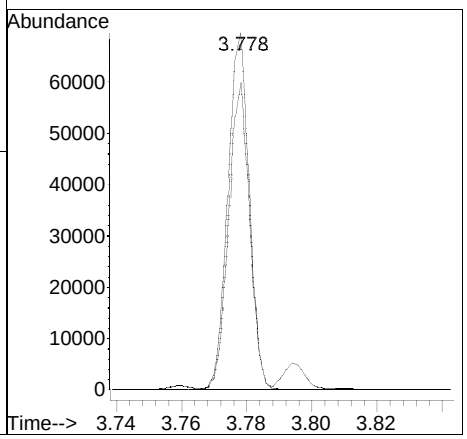


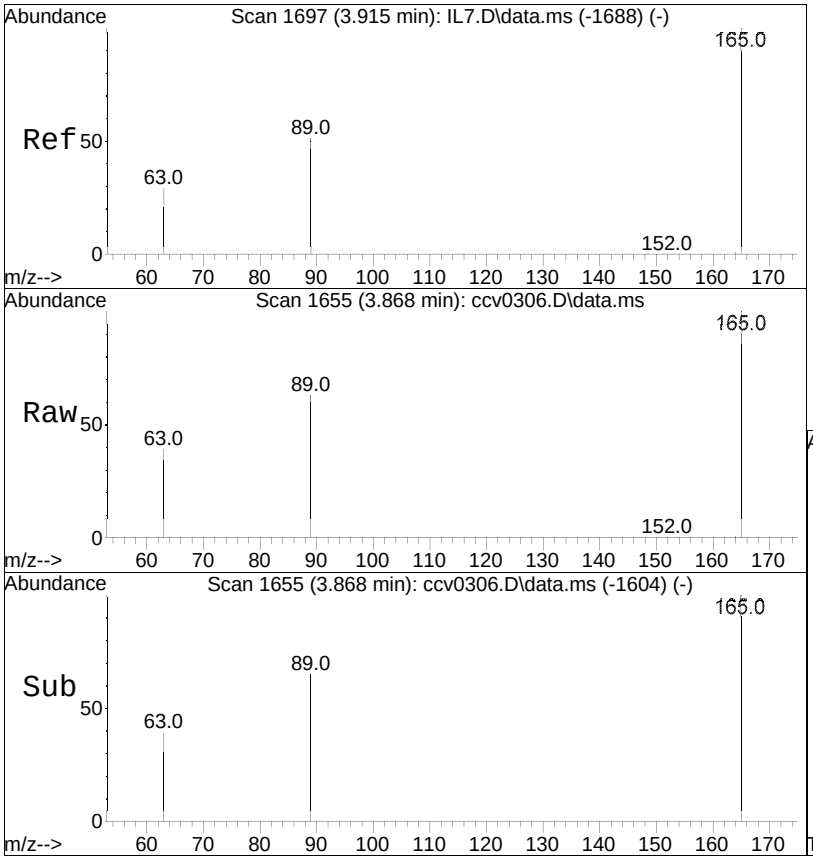


#18
Acenaphthene
Concen: 1033.41 ng/ml
RT: 3.778 min Scan# 1609
Delta R.T. 0.000 min
Lab File: ccv0306.D
Acq: 06 Mar 2024 06:56 am

Tgt Ion:153 Resp: 31122

Ion	Ratio	Lower	Upper
153	100		
154	84.7	66.9	100.3

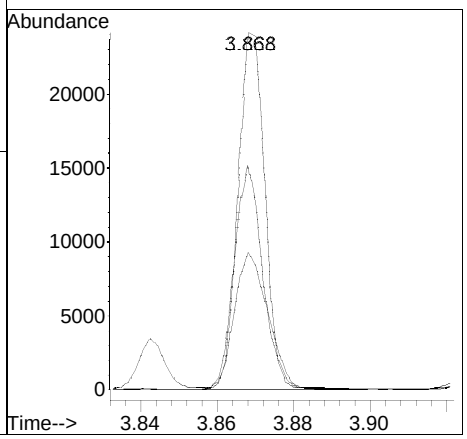


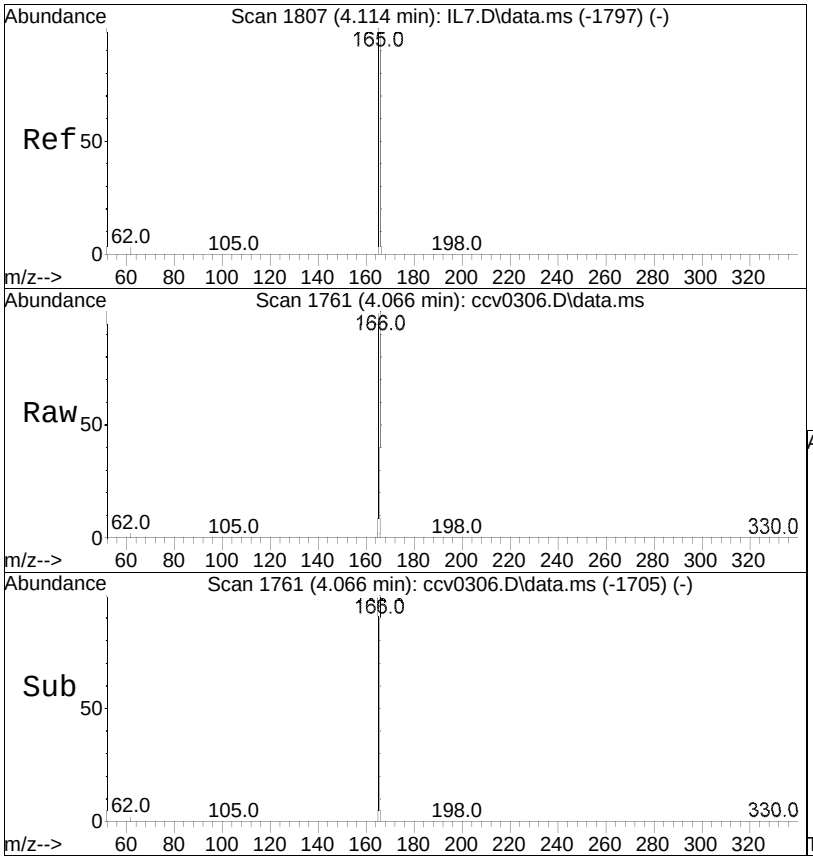


#19
2,4-Dinitrotoluene
Concen: 1294.02 ng/ml
RT: 3.868 min Scan# 1655
Delta R.T. 0.000 min
Lab File: ccv0306.D
Acq: 06 Mar 2024 06:56 am

Tgt Ion:165 Resp: 11619

Ion	Ratio	Lower	Upper
165	100		
89	66.9	80.1	120.1#
63	48.1	38.9	58.3

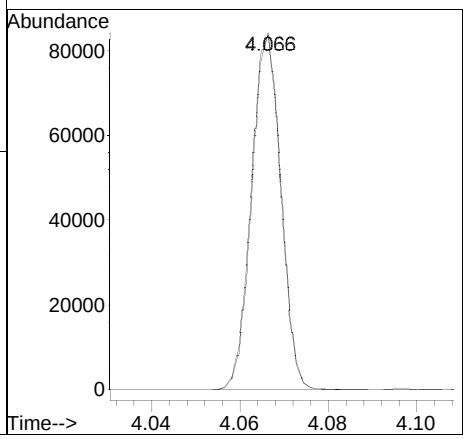


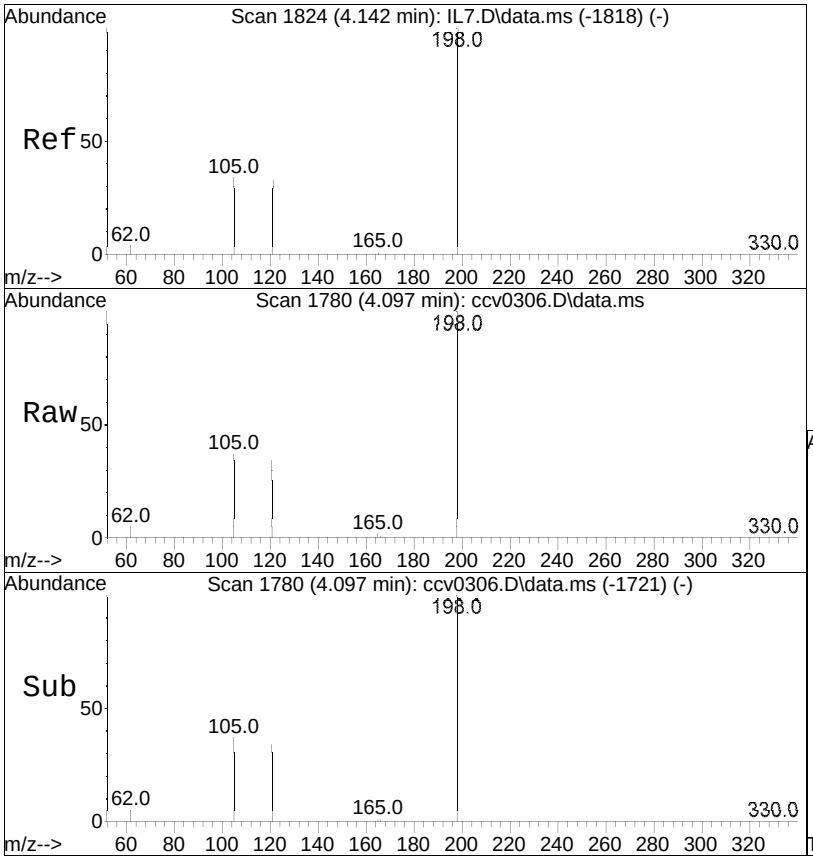


#20
Fluorene
Concen: 1070.42 ng/ml
RT: 4.066 min Scan# 1761
Delta R.T. 0.000 min
Lab File: ccv0306.D
Acq: 06 Mar 2024 06:56 am

Tgt Ion:166 Resp: 38533

Ion	Ratio	Lower	Upper
166	100		
165	100.7	82.9	124.3

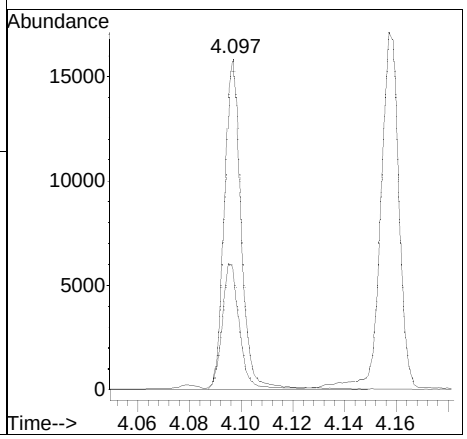


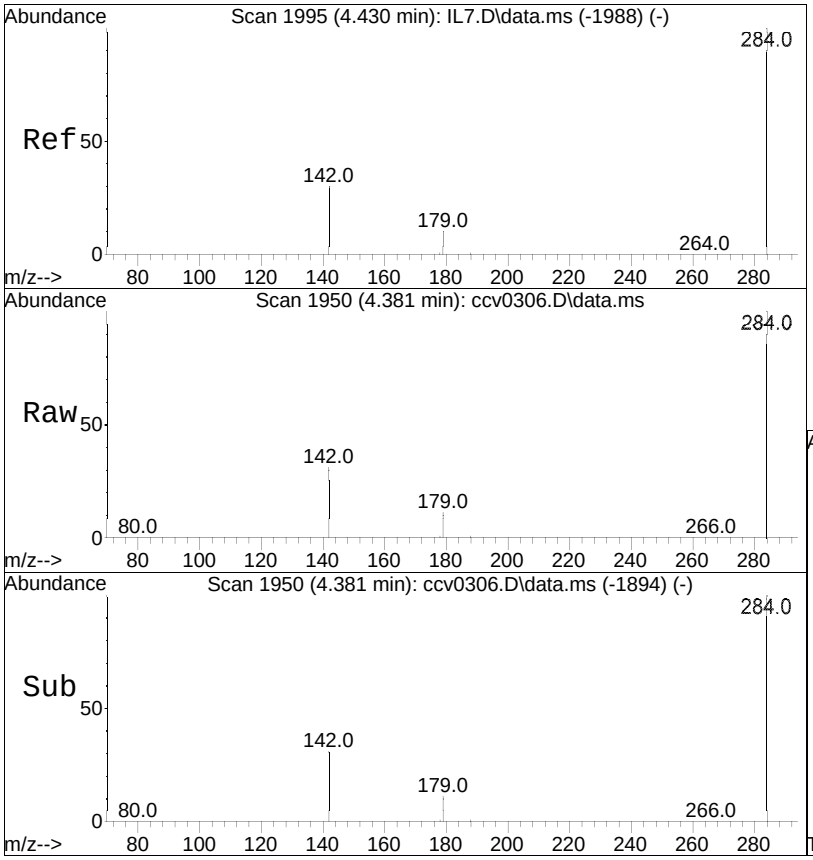


#23
4,6-Dinitro-o-cresol
Concen: 1092.79 ng/ml
RT: 4.097 min Scan# 1780
Delta R.T. 0.000 min
Lab File: ccv0306.D
Acq: 06 Mar 2024 06:56 am

Tgt Ion:198 Resp: 7117

Ion	Ratio	Lower	Upper
198	100		
105	38.1	32.2	48.4

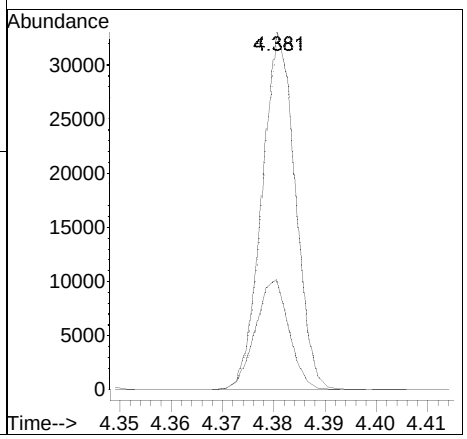


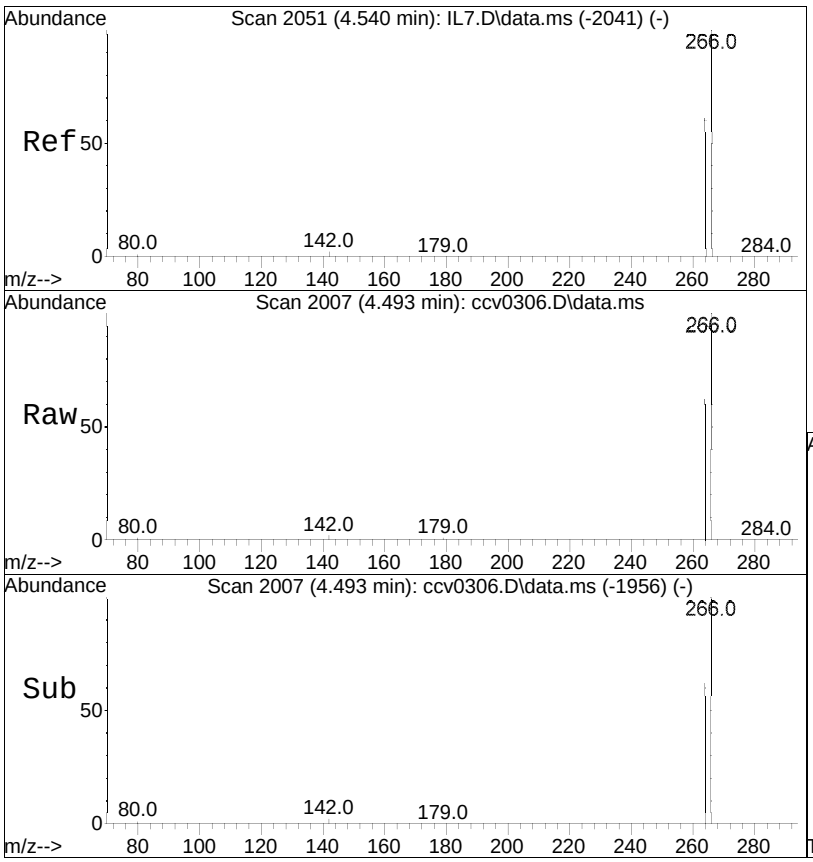


#24
Hexachlorobenzene
Concen: 1008.16 ng/ml
RT: 4.381 min Scan# 1950
Delta R.T. 0.000 min
Lab File: ccv0306.D
Acq: 06 Mar 2024 06:56 am

Tgt Ion:284 Resp: 14667

Ion	Ratio	Lower	Upper
284	100		
142	31.2	26.9	40.3

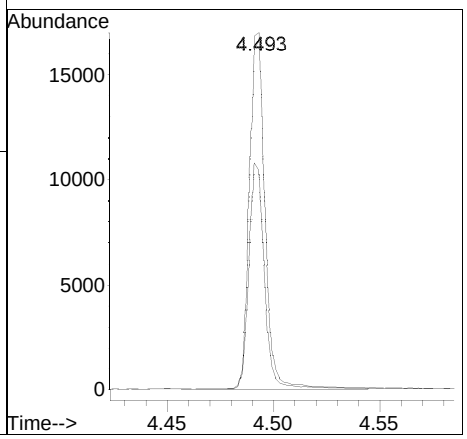


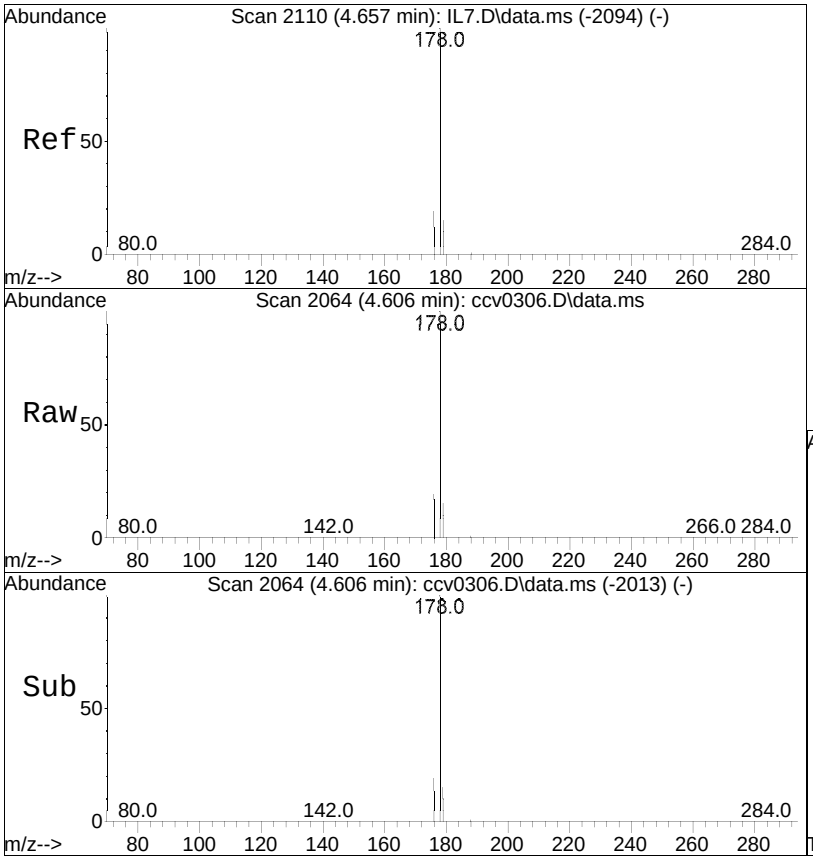


#25
Pentachlorophenol
Concen: 934.63 ng/ml
RT: 4.493 min Scan# 2007
Delta R.T. 0.000 min
Lab File: ccv0306.D
Acq: 06 Mar 2024 06:56 am

Tgt Ion:266 Resp: 8595

Ion	Ratio	Lower	Upper
266	100		
264	62.6	50.7	76.1

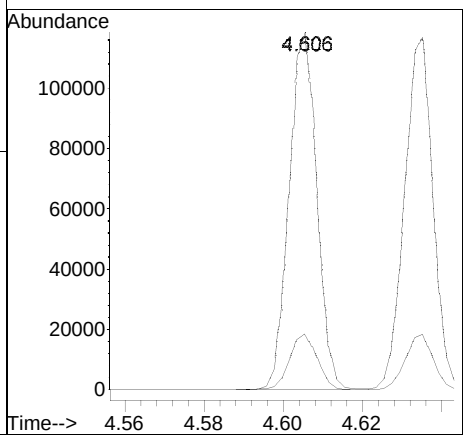


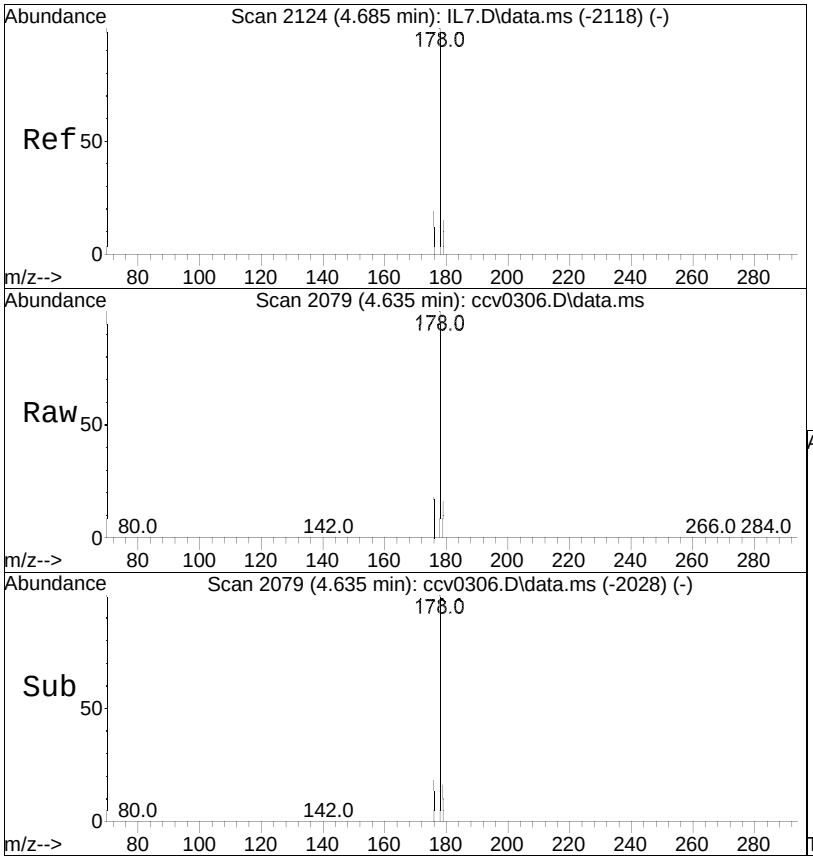


#26
Phenanthrene
Concen: 1007.14 ng/ml
RT: 4.606 min Scan# 2064
Delta R.T. 0.000 min
Lab File: ccv0306.D
Acq: 06 Mar 2024 06:56 am

Tgt Ion:178 Resp: 57572

Ion	Ratio	Lower	Upper
178	100		
179	15.6	12.3	18.5

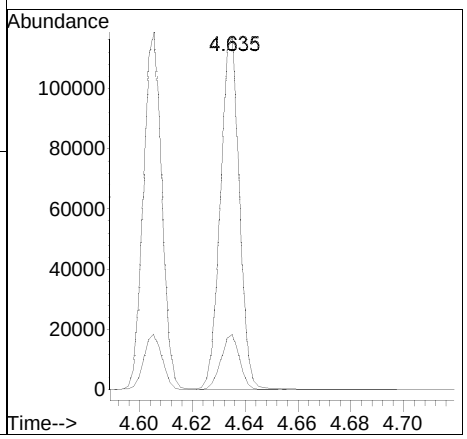


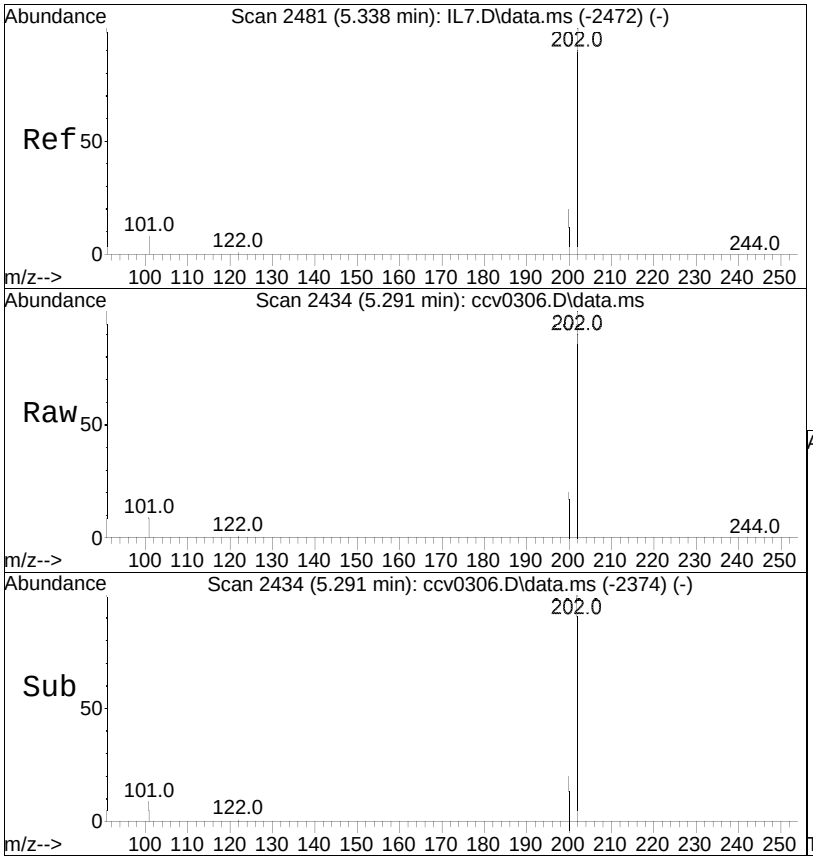


#27
Anthracene
Concen: 1031.88 ng/ml
RT: 4.635 min Scan# 2079
Delta R.T. 0.000 min
Lab File: ccv0306.D
Acq: 06 Mar 2024 06:56 am

Tgt Ion:178 Resp: 58495

Ion	Ratio	Lower	Upper
178	100		
179	15.4	12.2	18.4

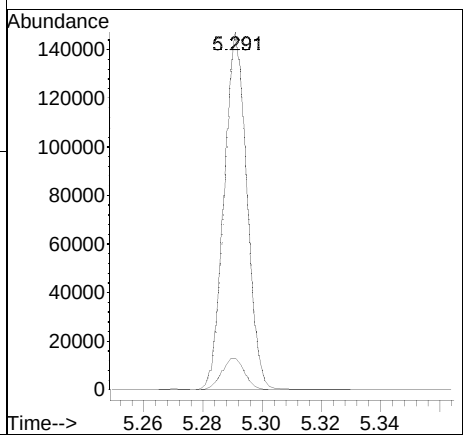


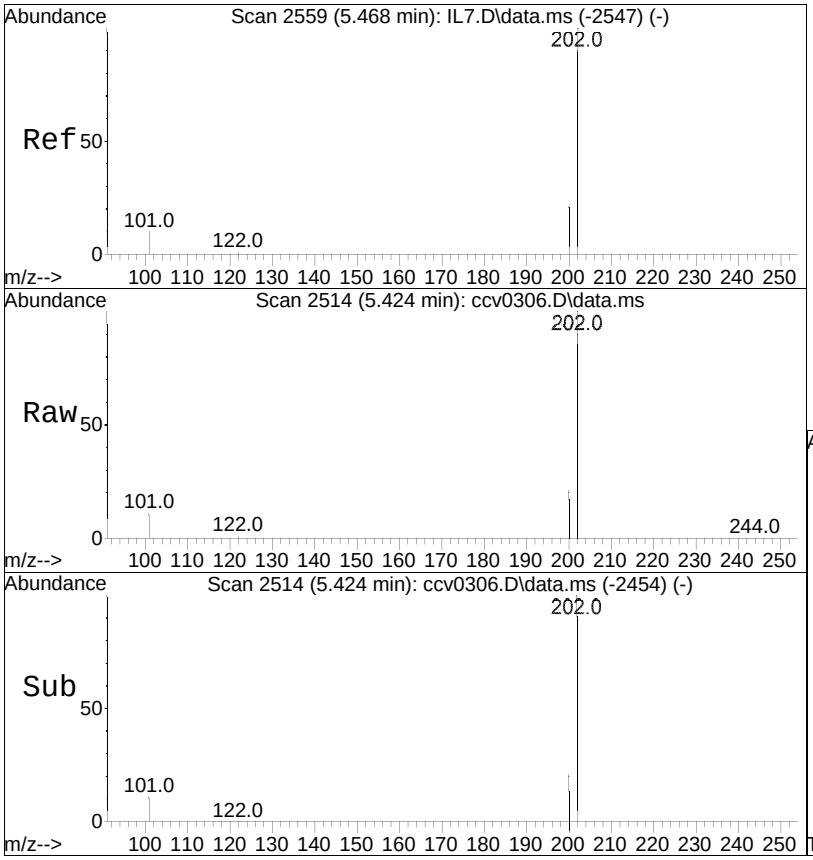


#28
Fluoranthene
Concen: 1028.15 ng/ml
RT: 5.291 min Scan# 2434
Delta R.T. 0.000 min
Lab File: ccv0306.D
Acq: 06 Mar 2024 06:56 am

Tgt Ion:202 Resp: 77461

Ion	Ratio	Lower	Upper
202	100		
101	9.0	8.3	12.5

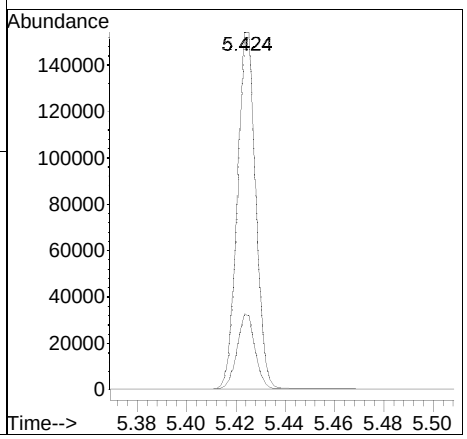


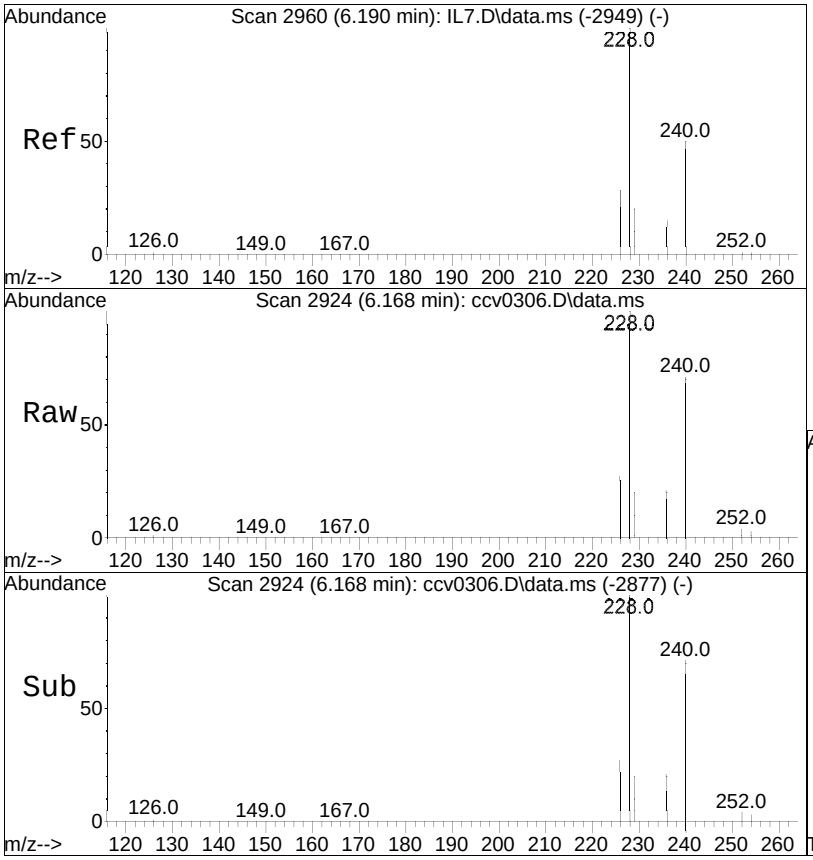


#29
Pyrene
Concen: 1018.52 ng/ml
RT: 5.424 min Scan# 2514
Delta R.T. 0.000 min
Lab File: ccv0306.D
Acq: 06 Mar 2024 06:56 am

Tgt Ion:202 Resp: 78834

Ion	Ratio	Lower	Upper
202	100		
200	21.0	17.3	25.9

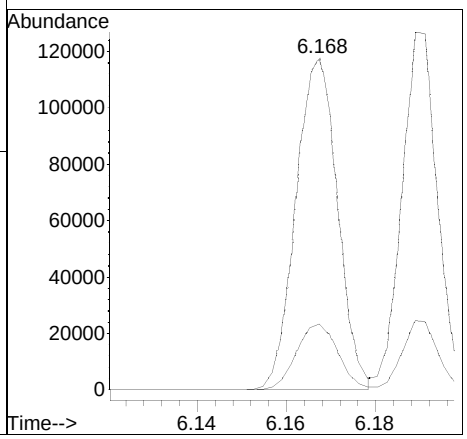


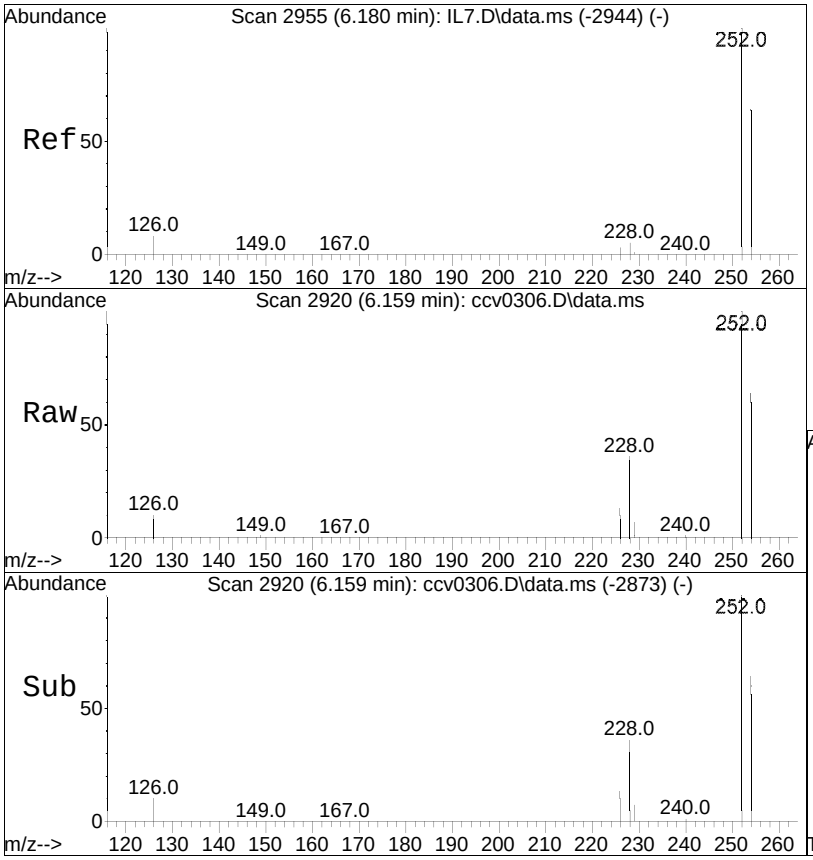


#32
Benzo[a]anthracene
Concen: 1144.10 ng/ml
RT: 6.168 min Scan# 2924
Delta R.T. 0.000 min
Lab File: ccv0306.D
Acq: 06 Mar 2024 06:56 am

Tgt Ion:228 Resp: 76195

Ion	Ratio	Lower	Upper
228	100		
229	19.9	15.6	23.4

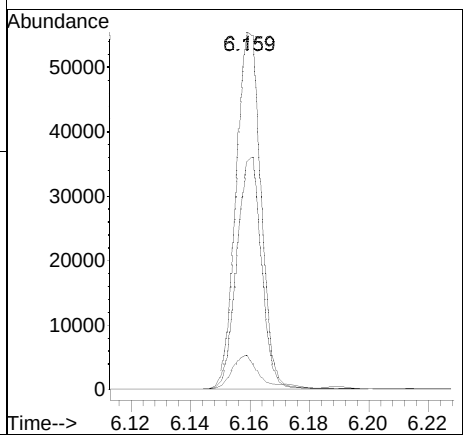


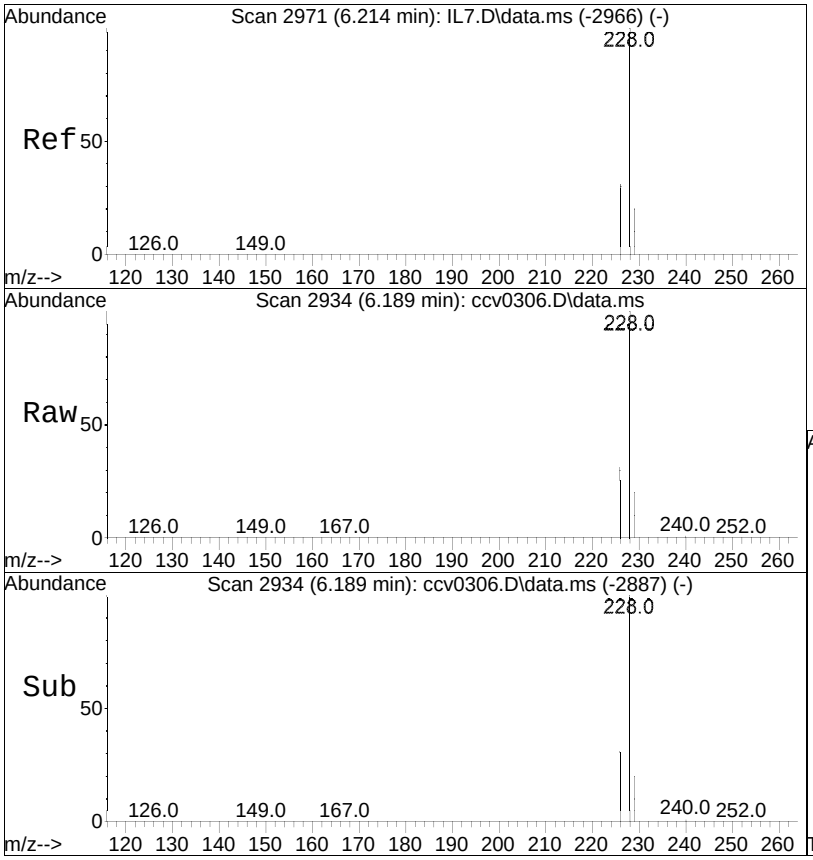


#33
3,3'-Dichlorobenzidine
Concen: 1067.22 ng/ml
RT: 6.159 min Scan# 2920
Delta R.T. 0.000 min
Lab File: ccv0306.D
Acq: 06 Mar 2024 06:56 am

Tgt Ion:252 Resp: 32059

Ion	Ratio	Lower	Upper
252	100		
126	10.8	7.7	11.5
254	64.4	52.0	78.0

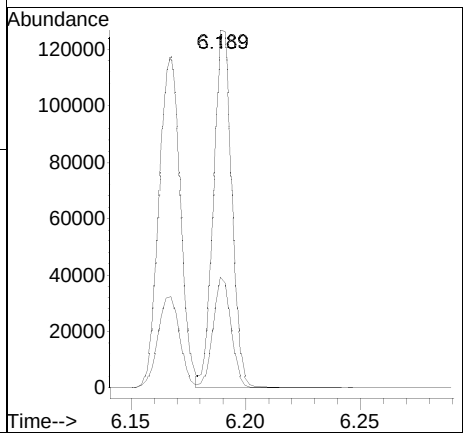


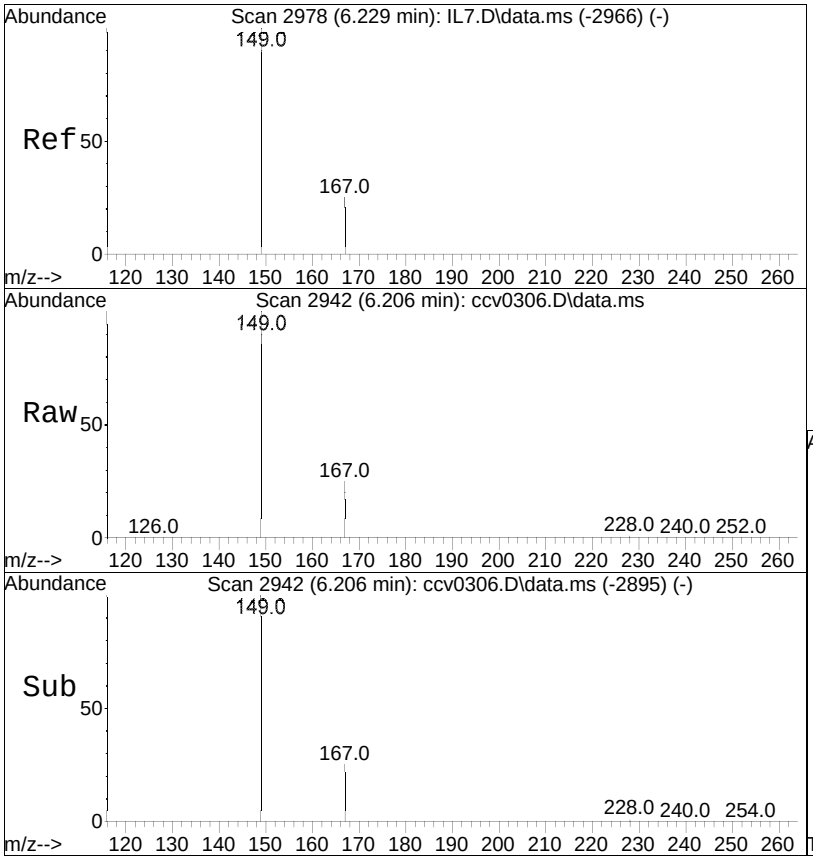


#34
Chrysene
Concen: 1069.75 ng/ml
RT: 6.189 min Scan# 2934
Delta R.T. 0.000 min
Lab File: ccv0306.D
Acq: 06 Mar 2024 06:56 am

Tgt Ion:228 Resp: 70200

Ion	Ratio	Lower	Upper
228	100		
226	30.5	24.5	36.7

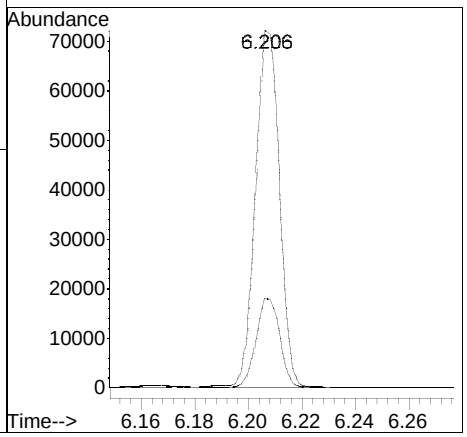


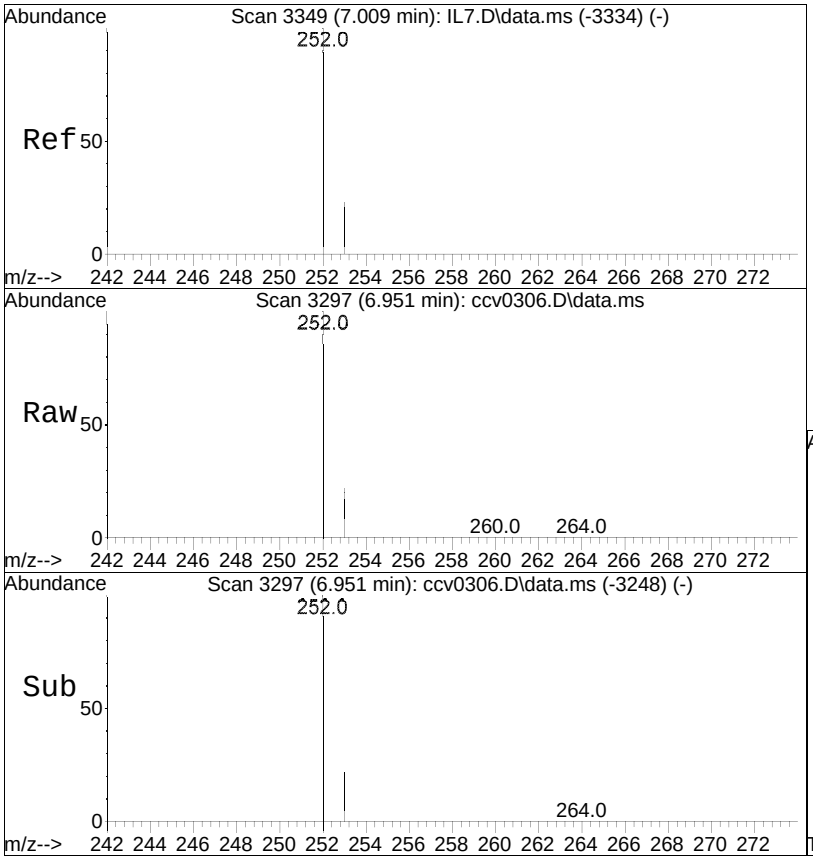


#35
Bis(2-ethylhexyl)phthalate
Concen: 1011.73 ng/ml
RT: 6.206 min Scan# 2942
Delta R.T. 0.000 min
Lab File: ccv0306.D
Acq: 06 Mar 2024 06:56 am

Tgt Ion:149 Resp: 44082

Ion	Ratio	Lower	Upper
149	100		
167	24.6	18.5	27.7

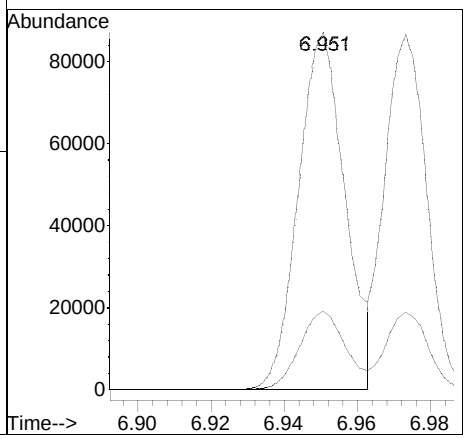


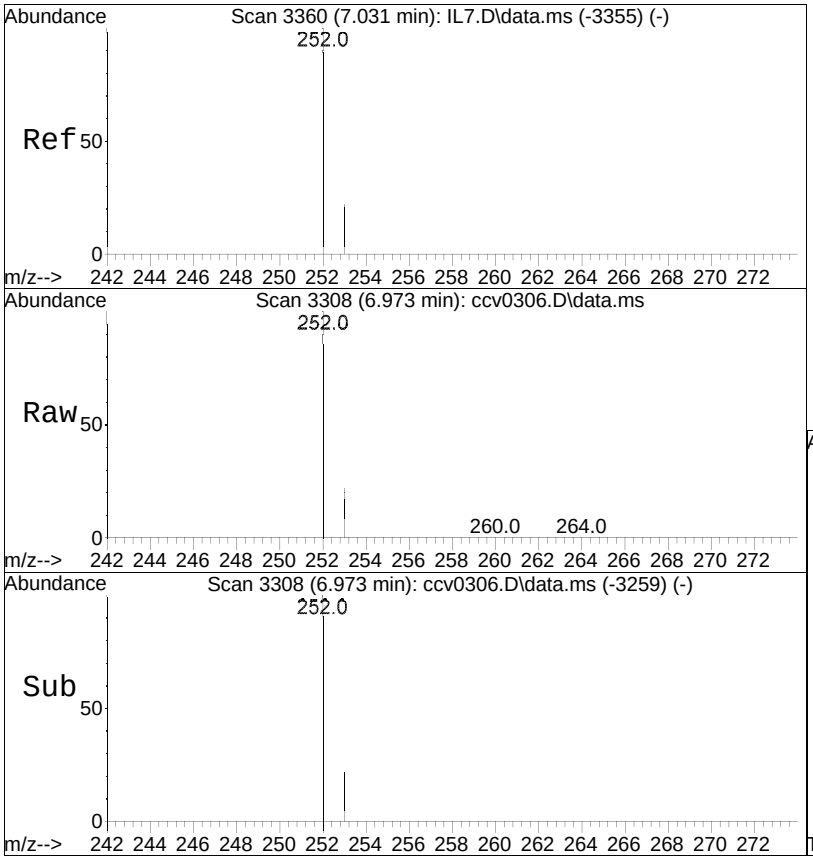


#37
Benzo[b]fluoranthene
Concen: 1147.96 ng/ml
RT: 6.951 min Scan# 3297
Delta R.T. 0.000 min
Lab File: ccv0306.D
Acq: 06 Mar 2024 06:56 am

Tgt Ion:252 Resp: 77005

Ion	Ratio	Lower	Upper
252	100		
253	21.7	17.3	25.9

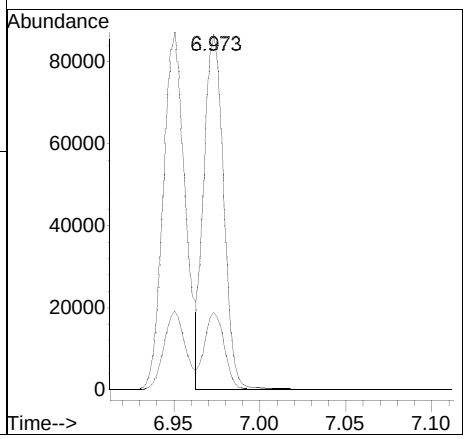


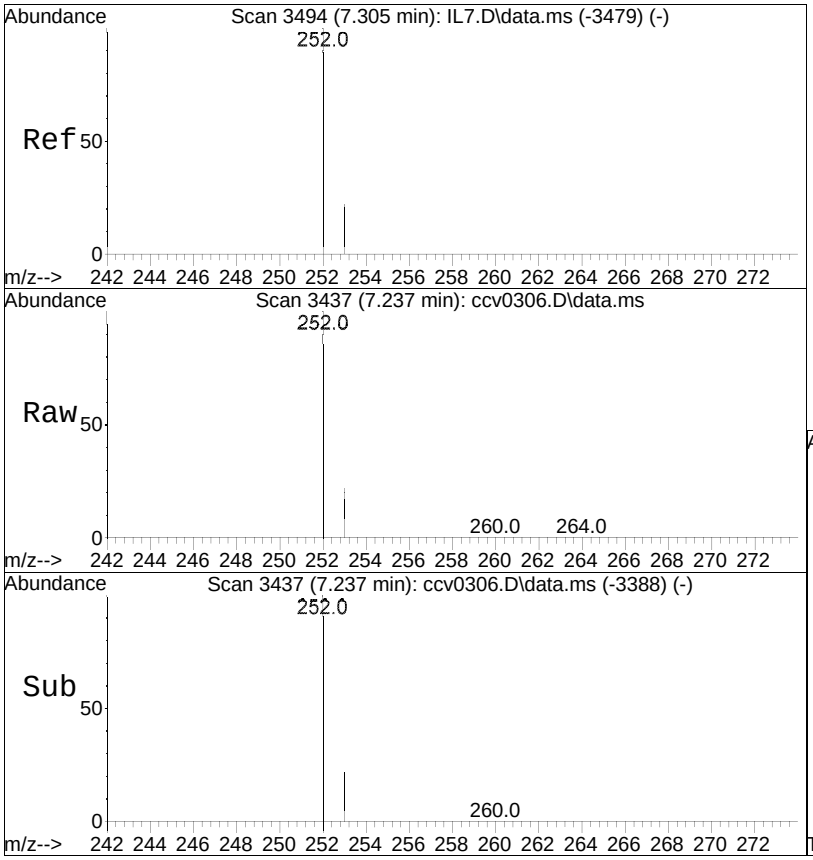


#38
Benzo[k]fluoranthene
Concen: 1081.57 ng/ml
RT: 6.973 min Scan# 3308
Delta R.T. 0.000 min
Lab File: ccv0306.D
Acq: 06 Mar 2024 06:56 am

Tgt Ion:252 Resp: 68892

Ion	Ratio	Lower	Upper
252	100		
253	21.8	17.4	26.2

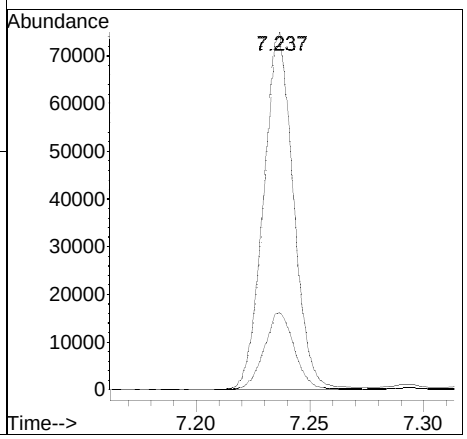


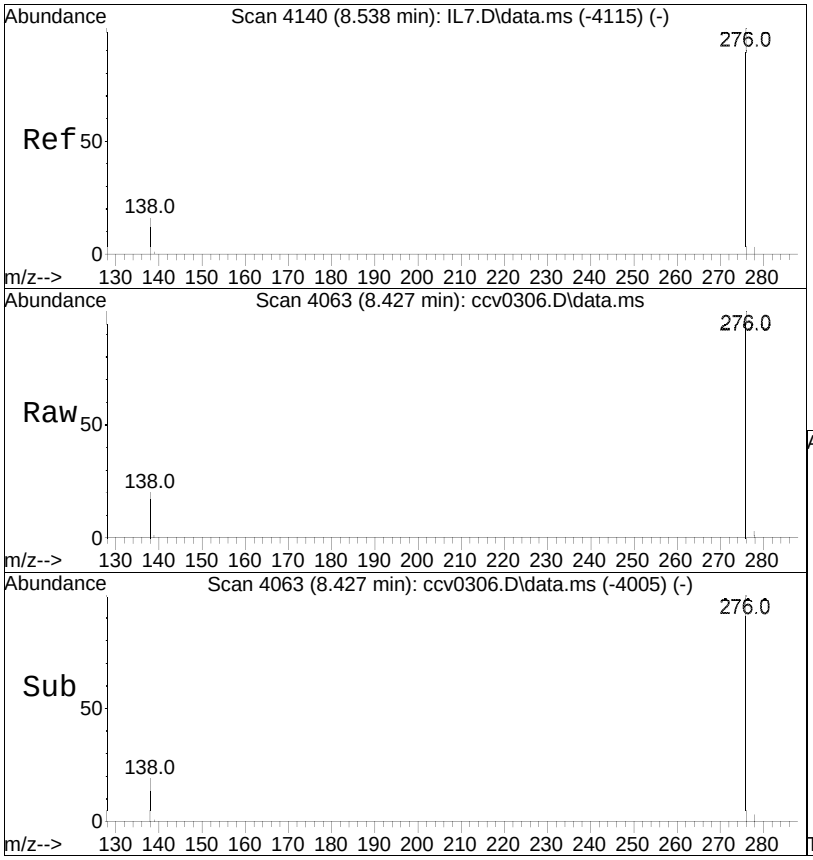


#39
Benzo[a]pyrene
Concen: 1141.98 ng/ml
RT: 7.237 min Scan# 3437
Delta R.T. 0.000 min
Lab File: ccv0306.D
Acq: 06 Mar 2024 06:56 am

Tgt Ion:252 Resp: 67428

Ion	Ratio	Lower	Upper
252	100		
253	21.7	17.4	26.0

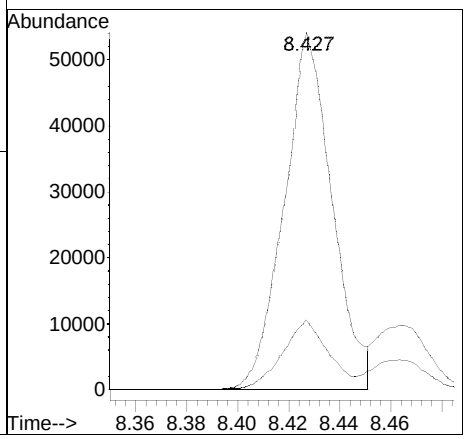


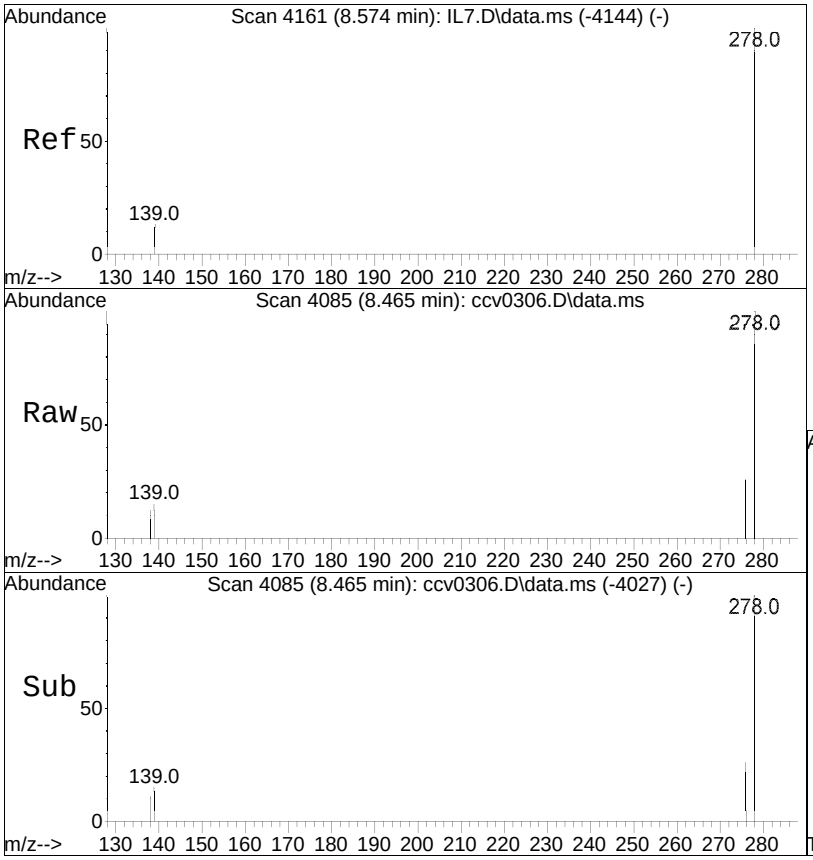


#40
Indeno[1,2,3-cd]pyrene
Concen: 1088.49 ng/ml
RT: 8.427 min Scan# 4063
Delta R.T. 0.000 min
Lab File: ccv0306.D
Acq: 06 Mar 2024 06:56 am

Tgt Ion:276 Resp: 69850

Ion	Ratio	Lower	Upper
276	100		
138	18.8	14.8	22.2

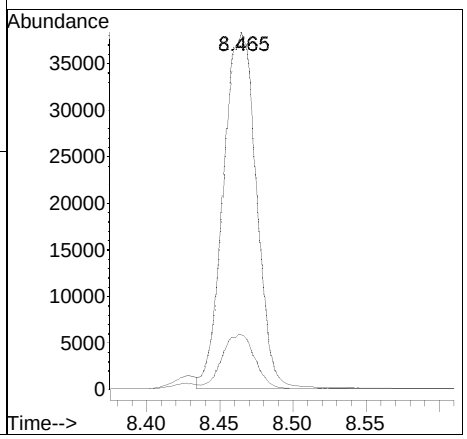


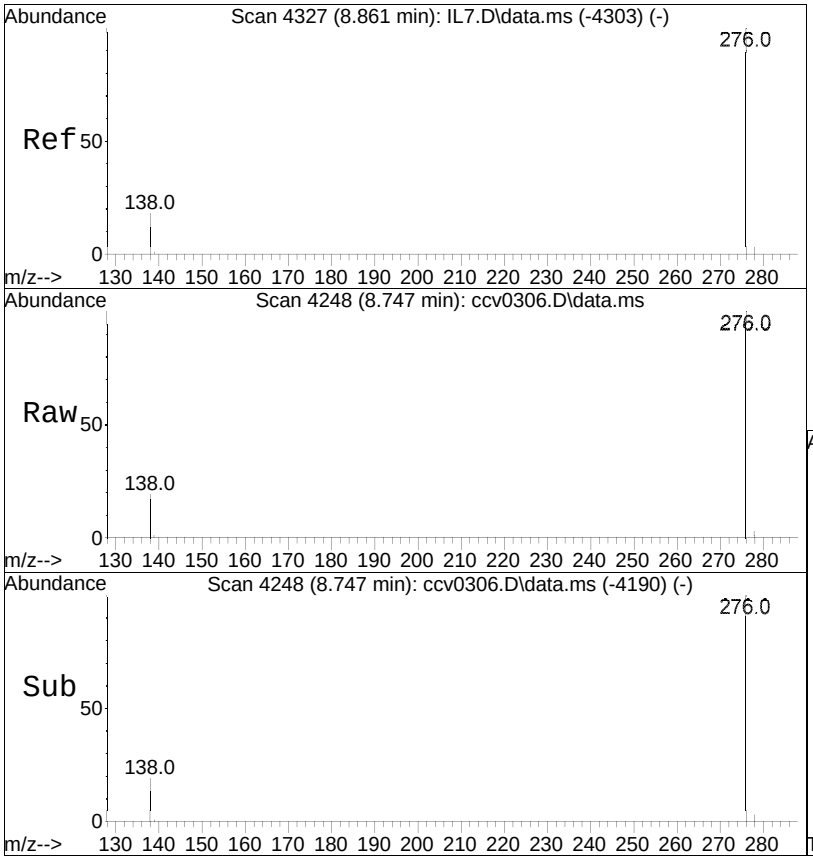


#41
Dibenzo[a,h]anthracene
Concen: 999.33 ng/ml
RT: 8.465 min Scan# 4085
Delta R.T. 0.000 min
Lab File: ccv0306.D
Acq: 06 Mar 2024 06:56 am

Tgt Ion:278 Resp: 59665

Ion	Ratio	Lower	Upper
278	100		
139	15.3	12.2	18.4

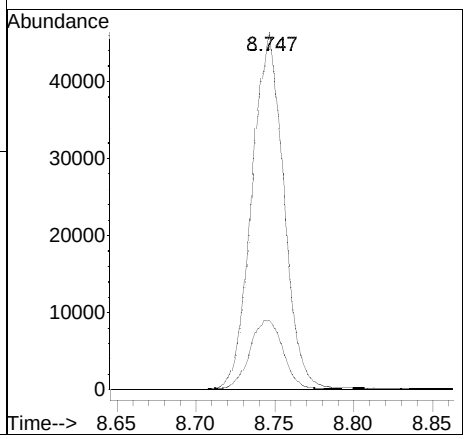




#42
Benzo[g,h,i]perylene
Concen: 983.42 ng/ml
RT: 8.747 min Scan# 4248
Delta R.T. 0.000 min
Lab File: ccv0306.D
Acq: 06 Mar 2024 06:56 am

Tgt Ion:276 Resp: 64193

Ion	Ratio	Lower	Upper
276	100		
138	20.5	16.8	25.2



Manual Integration Report

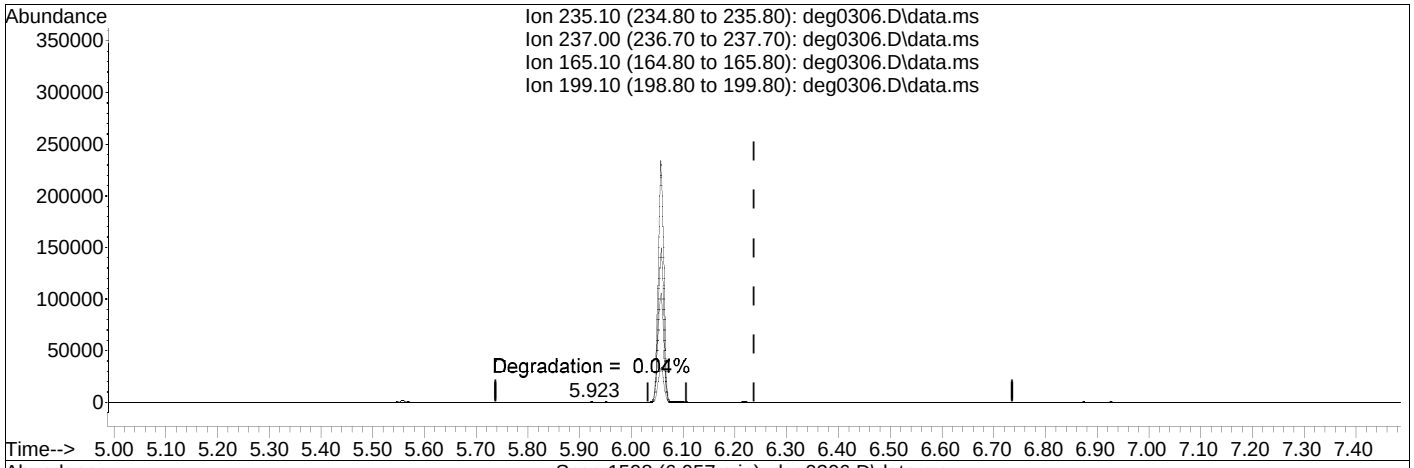
Data Path	: I:\8270SIM\sv119\240306LVI	Method	: SIM-LVI_231207n_sv119.M
Data File	: ccv0306.D	Operator	: sv119:jjw
Date Inj'd	: 3/6/2024 6:56 am	Instrument	: SV119
Sample	: WG1892736-3,32,, ICV 10475	Quant Date	: 3/6/2024 7:15 am

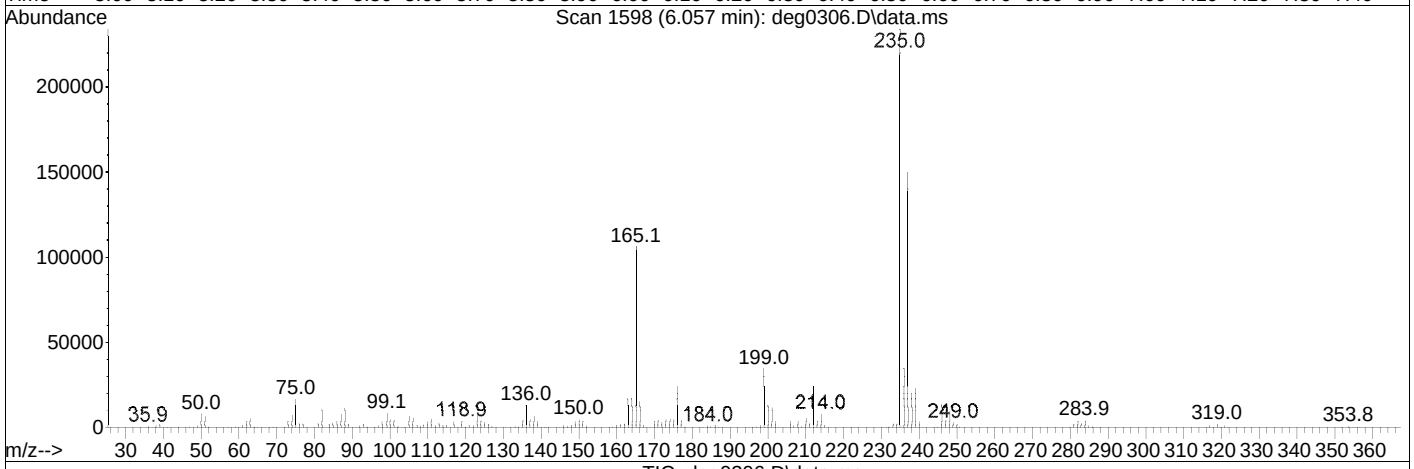
There are no manual integrations or false positives in this file.

Quantitation Report (Qedit)

Data Path : I:\8270SIM\sv119\240306LVI\
Data File : deg0306.D
Acq On : 06 Mar 2024 06:37 am
Operator : sv119:jjw
Sample : WG1892736-2,32,,dftppsv119
Misc : WG1892736,,ical20642
ALS Vial : 48 Sample Multiplier: 1

Quant Time: Mar 06 06:53:22 2024
Quant Method : I:\8270SIM\sv119\240306LVI\dftppsv119.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Feb 27 09:29:03 2024
Response via : Continuing Cal File: C:\ENVDEMO\BNADATA\DLWB002.D





TIC: deg0306.D\data.ms

(6) ddt (T)

6.057min (-0.180) 27.01

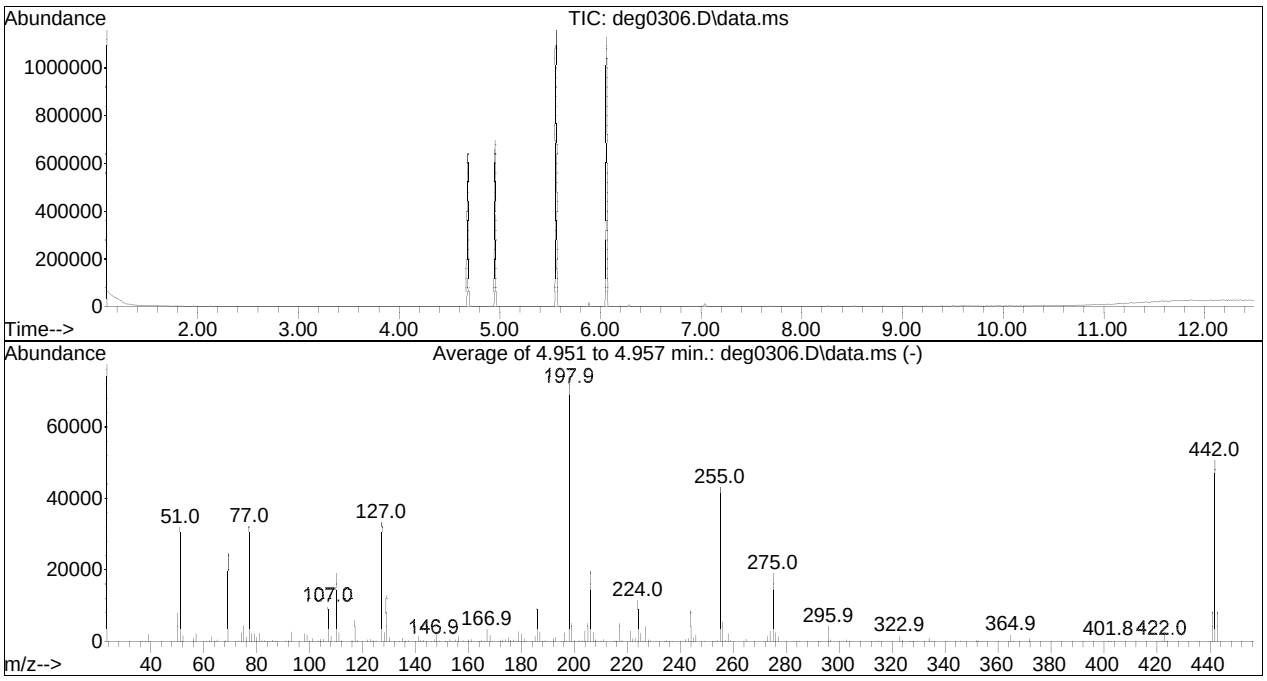
response 164648

Ion	Exp%	Act%
235.10	100.00	100.00
237.00	65.60	64.19
165.10	53.30	46.68
199.10	17.10	15.15

Data Path : I:\8270SIM\sv119\240306LVI\
Data File : deg0306.D
Acq On : 06 Mar 2024 06:37 am
Operator : sv119:jjw
Sample : WG1892736-1,32,,dftppsv119
Misc : WG1892736,,ical20642
ALS Vial : 48 Sample Multiplier: 1

Integration File: rteint.p

Method : I:\8270SIM\sv119\240306LVI\SIM-LVI_231207n_sv119.M
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Wed Mar 06 07:14:42 2024



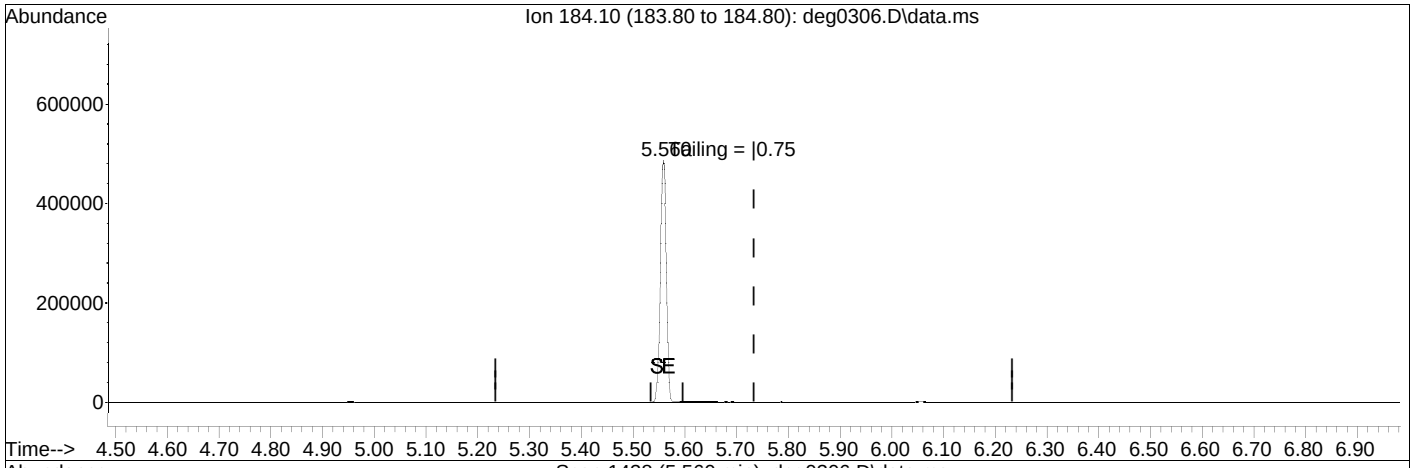
Spectrum Information: Average of 4.951 to 4.957 min.

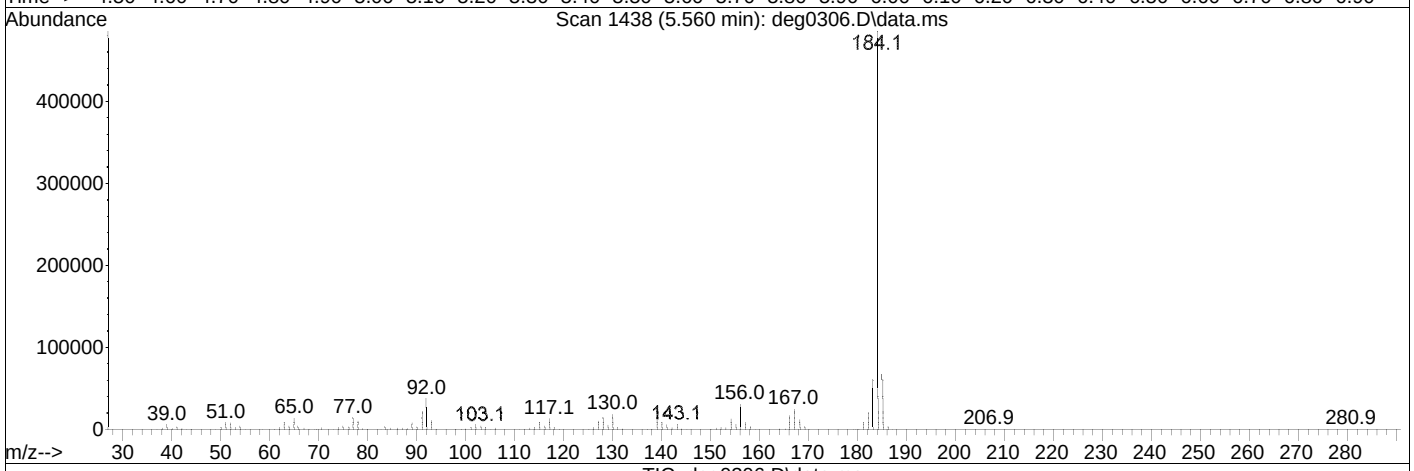
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	43.1	31773	PASS
68	69	0.00	2	1.7	429	PASS
69	69	100	100	100.0	24520	PASS
70	69	0.00	2	0.0	0	PASS
127	198	10	80	45.1	33269	PASS
197	198	0.00	2	0.4	282	PASS
198	198	100	100	100.0	73800	PASS
199	198	5	9	6.8	5035	PASS
275	198	10	60	25.6	18886	PASS
365	198	1	100	2.4	1762	PASS
441	442	0.01	24	16.7	8475	PASS
442	198	50	100	68.6	50645	PASS
443	442	15	24	16.5	8363	PASS

Quantitation Report (Qedit)

Data Path : I:\8270SIM\sv119\240306LVI\
Data File : deg0306.D
Acq On : 06 Mar 2024 06:37 am
Operator : sv119:jjw
Sample : WG1892736-4,32,,dftppsv119
Misc : WG1892736,,ical20642
ALS Vial : 48 Sample Multiplier: 1

Quant Time: Mar 06 06:53:22 2024
Quant Method : I:\8270SIM\sv119\240306LVI\dftppsv119.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Feb 27 09:29:03 2024
Response via : Continuing Cal File: C:\ENVDEMO\BNADATA\DLWB002.D





TIC: deg0306.D\data.ms

(3) benzidine (T)

5.560min (-0.174) 36.16

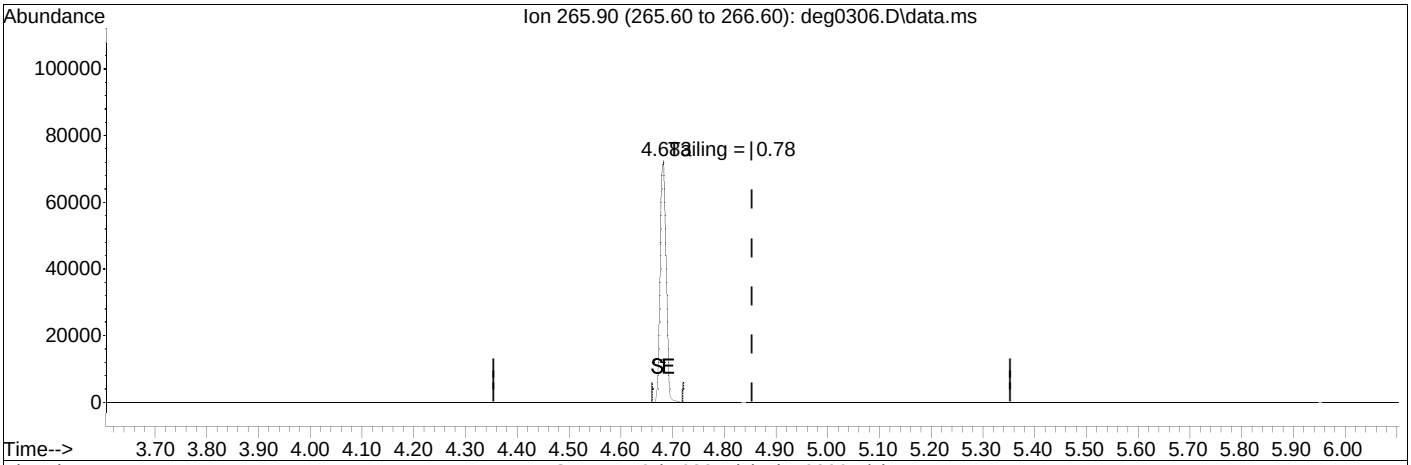
response 368133

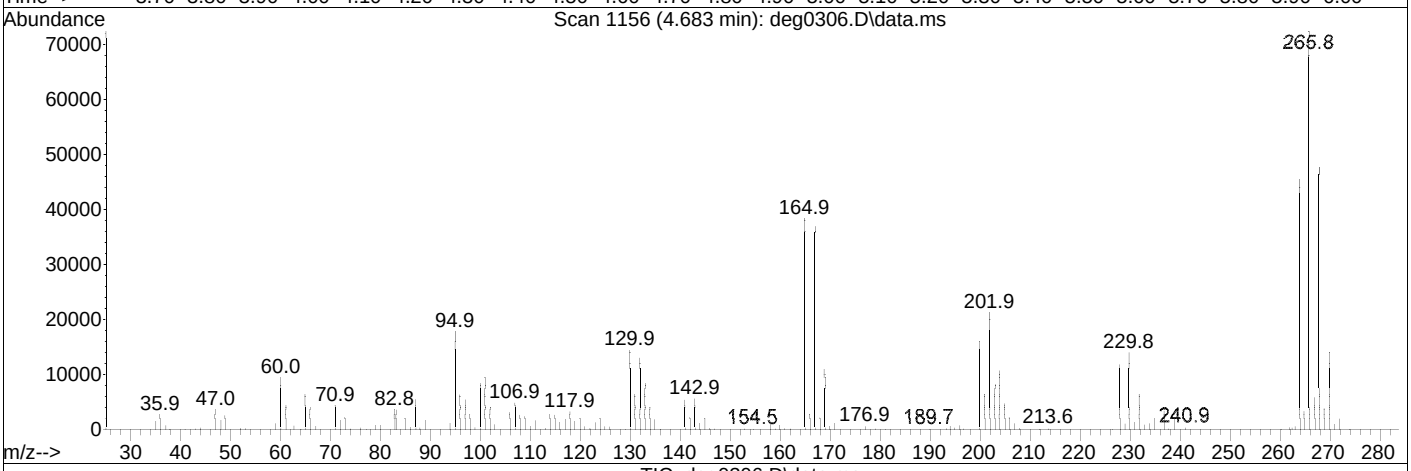
Ion	Exp%	Act%
184.10	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\8270SIM\sv119\240306LVI\
Data File : deg0306.D
Acq On : 06 Mar 2024 06:37 am
Operator : sv119:jjw
Sample : WG1892736-5,32,,dftppsv119
Misc : WG1892736,,ical20642
ALS Vial : 48 Sample Multiplier: 1

Quant Time: Mar 06 06:53:22 2024
Quant Method : I:\8270SIM\sv119\240306LVI\dftppsv119.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Feb 27 09:29:03 2024
Response via : Continuing Cal File: C:\ENVDEMO\BNADATA\DLWB002.D





TIC: deg0306.D\data.ms

(1) pentachlorophenol (T)

4.683min (-0.171) 25.66

response 53898

Ion	Exp%	Act%
265.90	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Semivolatiles Raw QC Data

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV128\240303\
Data File : 891420-1.D
Acq On : 03 Mar 2024 05:30 pm
Operator : SV128:jjw
Sample : WG1891420-1,32,,ah
Misc : WG1891581,WG1891420,ical20676
ALS Vial : 32 Sample Multiplier: 1

Quant Time: Mar 04 09:41:10 2024
Quant Method : I:\8270sim\sv128\240303\SIM-LVI_231211_sv128.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sun Mar 03 08:22:48 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv128\240303\ccv0303.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.339	152	1749	4000.000	ng/ml	0.00
Standard Area 1 = 2643			Recovery =	66.17%		
8) Naphthalene-d8	3.022	136	6735	4000.000	ng/ml	0.00
Standard Area 1 = 9361			Recovery =	71.95%		
17) Acenaphthene-d10	4.022	164	4683	4000.000	ng/ml	0.00
Standard Area 1 = 5723			Recovery =	81.83%		
22) Phenanthrene-d10	4.892	188	11977	4000.000	ng/ml	0.00
Standard Area 1 = 13127			Recovery =	91.24%		
31) Chrysene-d12	6.528	240	12988	4000.000	ng/ml	0.00
Standard Area 1 = 12561			Recovery =	103.40%		
36) Perylene-d12	7.917	264	13876	4000.000	ng/ml	0.00
Standard Area 1 = 13889			Recovery =	99.91%		
System Monitoring Compounds						
2) 2-Fluorophenol	1.728	112	1170	2656.512	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery =	53.13%		
3) Phenol-d6	2.153	99	1261	2449.876	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery =	49.00%		
7) Nitrobenzene-d5	2.628	82	734	1764.560	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery =	70.58%		
13) 2-Fluorobiphenyl	3.632	172	2426	1698.525	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery =	67.94%		
21) 2,4,6-Tribromophenol	4.486	330	1050	4486.857	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery =	89.74%		
30) 4-Terphenyl-d14	5.836	244	4736	1898.012	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery =	75.92%		
Target Compounds						Qvalue
6) Hexachloroethane	0.000		0	N.D.		
9) Naphthalene	3.034	128	70M4	40.529	ng/ml	
10) Hexachlorobutadiene	0.000		0	N.D.		
11) 2-Methylnaphthalene	3.421	142	14	12.689	ng/ml	91
14) 2-Chloronaphthalene	0.000		0	N.D.		
16) Acenaphthylene	0.000		0	N.D.		
18) Acenaphthene	0.000		0	N.D.		
20) Fluorene	0.000		0	N.D. d		
24) Hexachlorobenzene	0.000		0	N.D.		
25) Pentachlorophenol	0.000		0	N.D. d		

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV128\240303\
Data File : 891420-1.D
Acq On : 03 Mar 2024 05:30 pm
Operator : SV128:jjw
Sample : WG1891420-1,32,,ah
Misc : WG1891581,WG1891420,ical20676
ALS Vial : 32 Sample Multiplier: 1

Quant Time: Mar 04 09:41:10 2024
Quant Method : I:\8270sim\sv128\240303\SIM-LVI_231211_sv128.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sun Mar 03 08:22:48 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv128\240303\ccv0303.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Phenanthrene	4.907	178	18M6	5.558	ng/ml	
27) Anthracene	0.000		0	N.D.	d	
28) Fluoranthene	0.000		0	N.D.	d	
29) Pyrene	5.743	202	11M7	2.988	ng/ml	
32) Benzo[a]anthracene	0.000		0	N.D.	d	
34) Chrysene	0.000		0	N.D.	d	
37) Benzo[b]fluoranthene	0.000		0	N.D.	d	
38) Benzo[k]fluoranthene	0.000		0	N.D.	d	
39) Benzo[a]pyrene	0.000		0	N.D.	d	
40) Indeno[1,2,3-cd]pyrene	0.000		0	N.D.	d	
41) Dibenzo[a,h]anthracene	0.000		0	N.D.		
42) Benzo[g,h,i]perylene	0.000		0	N.D.		

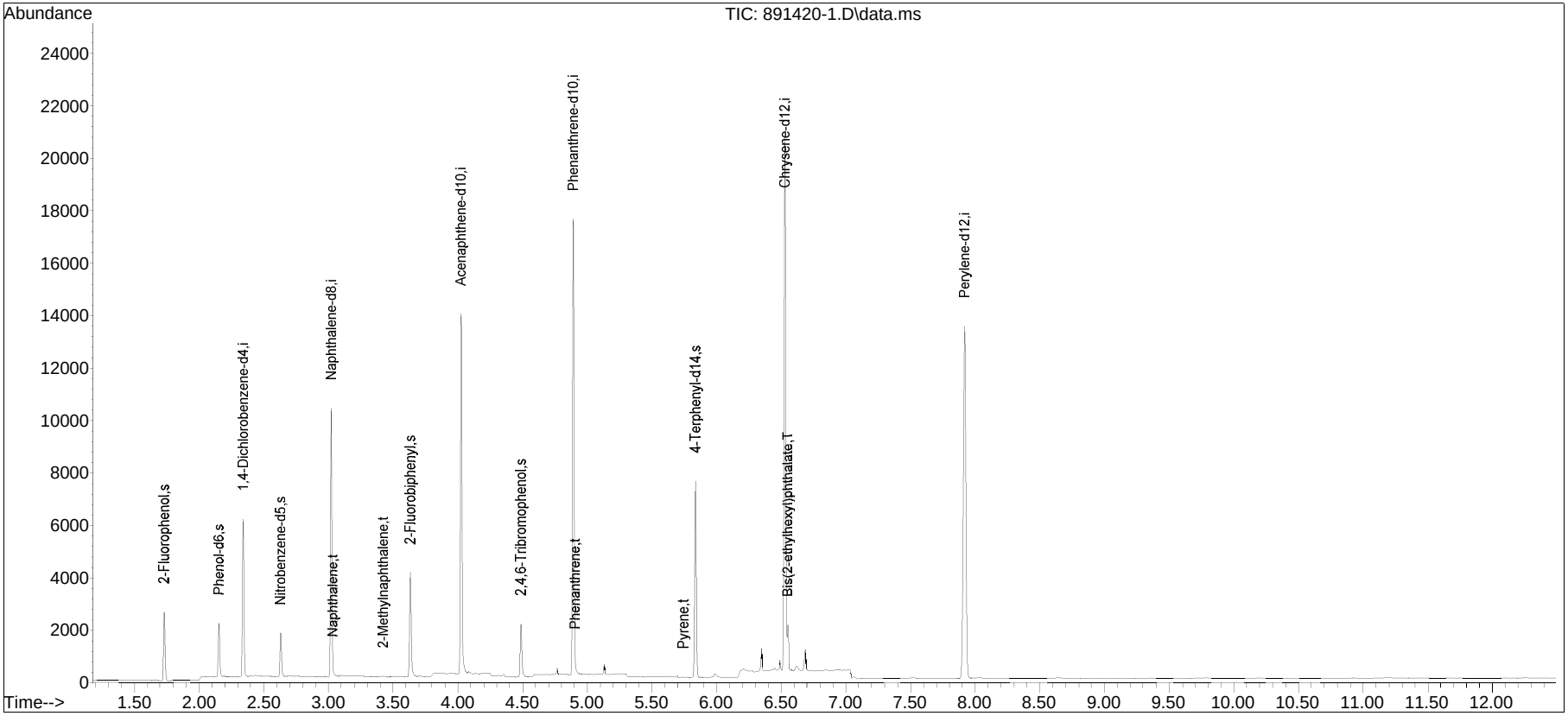
(#) = qualifier out of range (m) = manual integration (+) = signals summed

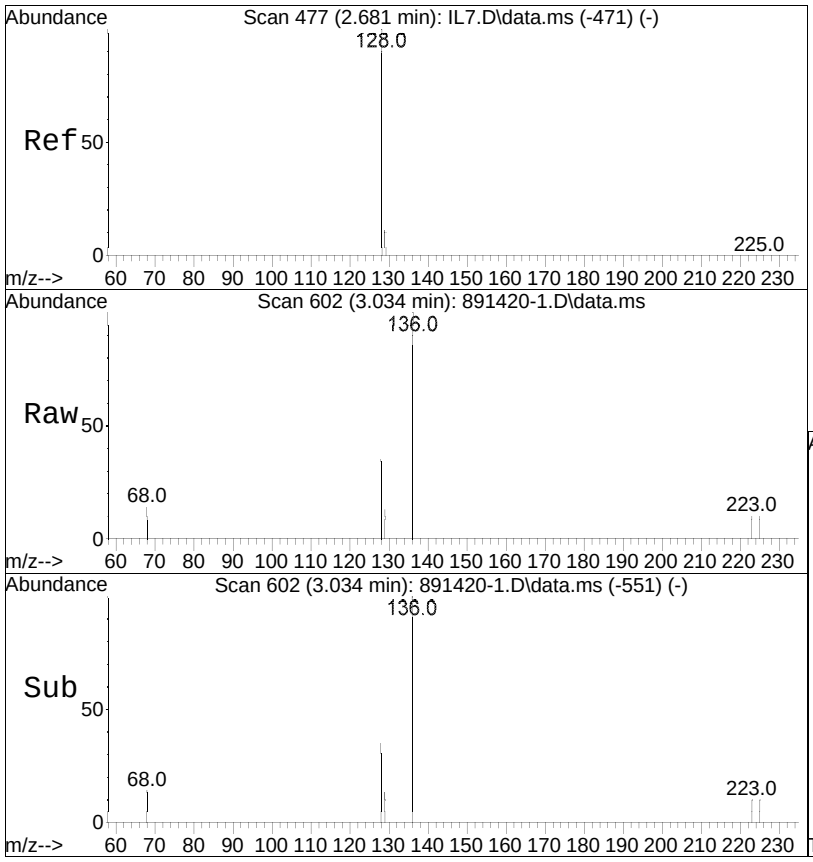
Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV128\240303\
Data File : 891420-1.D
Acq On : 03 Mar 2024 05:30 pm
Operator : SV128:jjw
Sample : WG1891420-1,32,,ah
Misc : WG1891581,WG1891420,ical20676
ALS Vial : 32 Sample Multiplier: 1

Quant Time: Mar 04 09:41:10 2024
Quant Method : I:\8270sim\sv128\240303\SIM-LVI_231211_sv128.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sun Mar 03 08:22:48 2024
Response via : Initial Calibration

Sub List : DEFAULT - All compounds listedv0303.D•

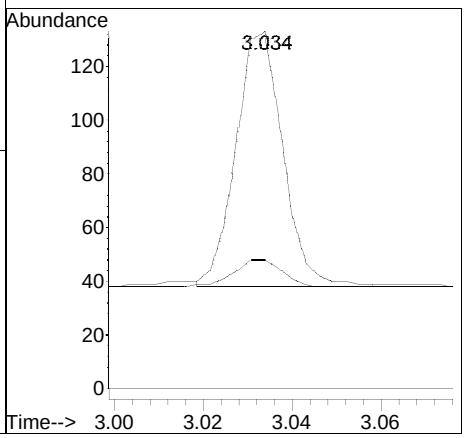


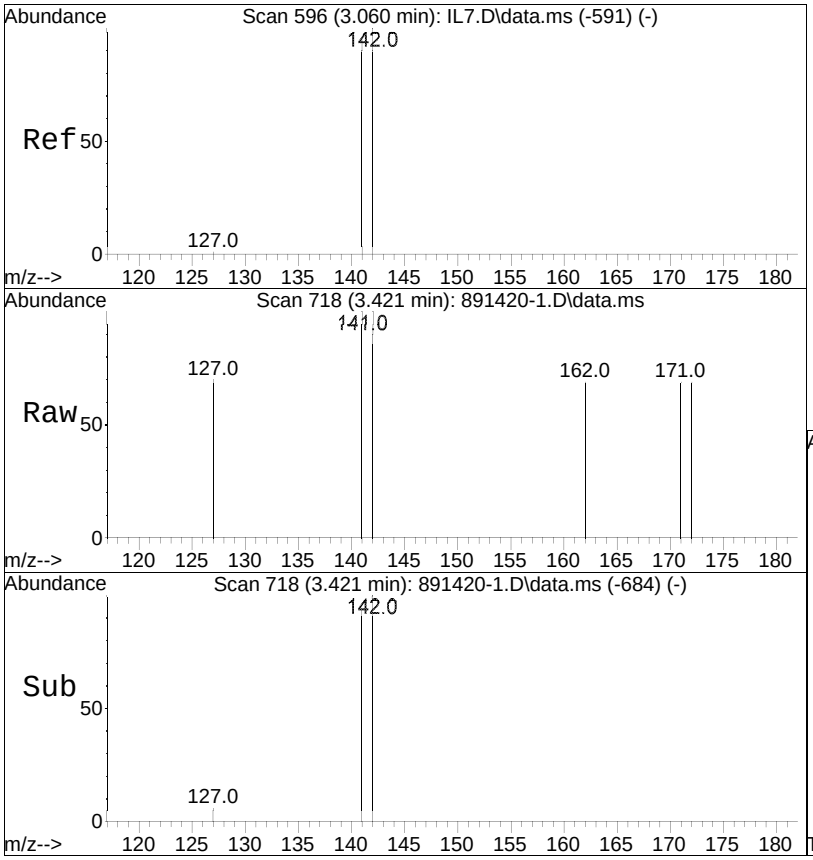


#9
Naphthalene
Concen: 40.53 ng/ml M4
RT: 3.034 min Scan# 602
Delta R.T. -0.002 min
Lab File: 891420-1.D
Acq: 03 Mar 2024 05:30 pm

Tgt Ion:128 Resp: 70

Ion	Ratio	Lower	Upper
128	100		
129	10.0	8.8	13.2
127	0.0	0.0	0.0

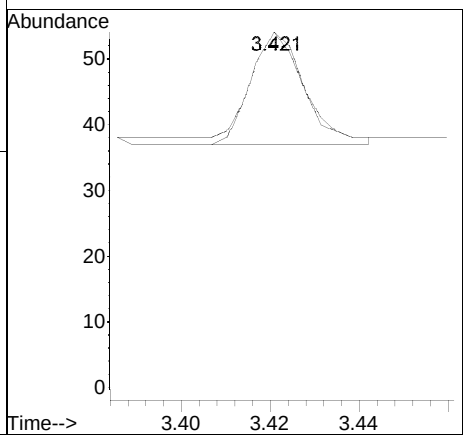


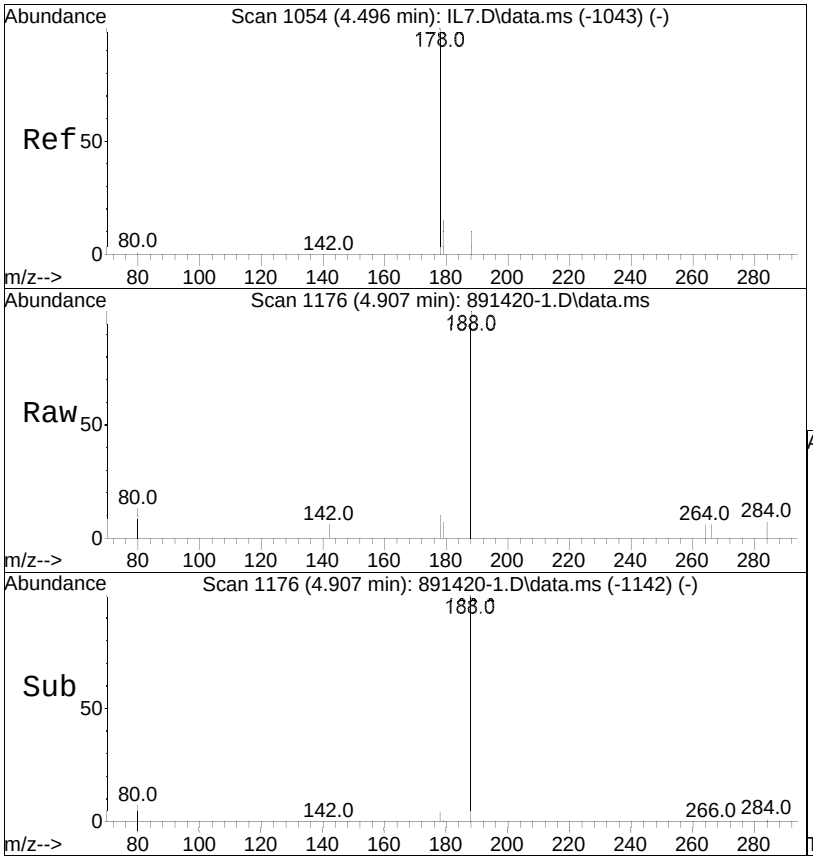


#11
2-Methylnaphthalene
Concen: 12.69 ng/ml
RT: 3.421 min Scan# 718
Delta R.T. -0.006 min
Lab File: 891420-1.D
Acq: 03 Mar 2024 05:30 pm

Tgt Ion:142 Resp: 14

Ion	Ratio	Lower	Upper
142	100		
141	85.7	75.9	113.9

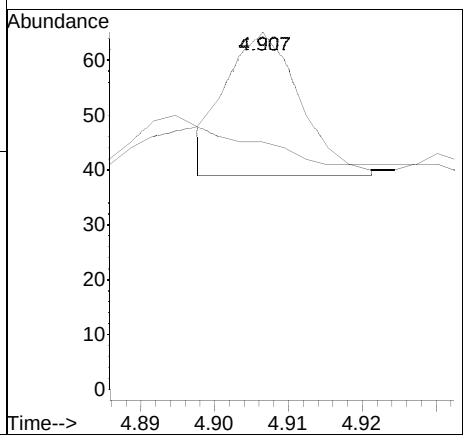


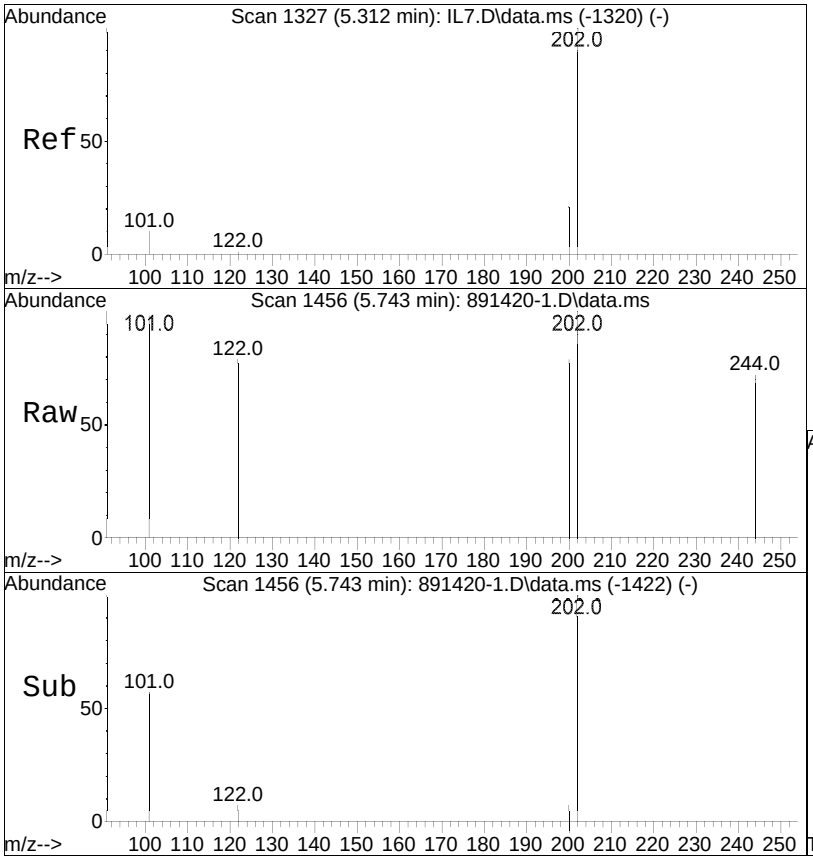


#26
Phenanthrene
Concen: 5.56 ng/ml M6
RT: 4.907 min Scan# 1176
Delta R.T. -0.005 min
Lab File: 891420-1.D
Acq: 03 Mar 2024 05:30 pm

Tgt Ion:178 Resp: 18

Ion	Ratio	Lower	Upper
178	100		
179	16.7	12.2	18.4

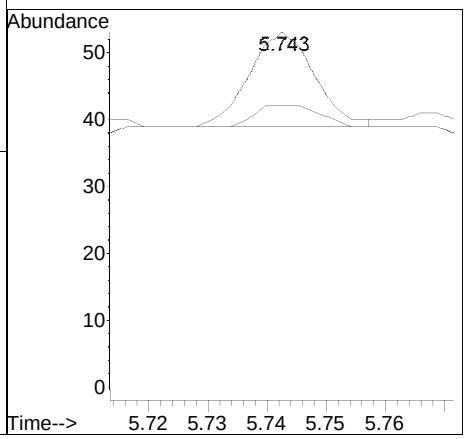




#29
Pyrene
Concen: 2.99 ng/ml M7
RT: 5.743 min Scan# 1456
Delta R.T. -0.005 min
Lab File: 891420-1.D
Acq: 03 Mar 2024 05:30 pm

Tgt Ion:202 Resp: 11

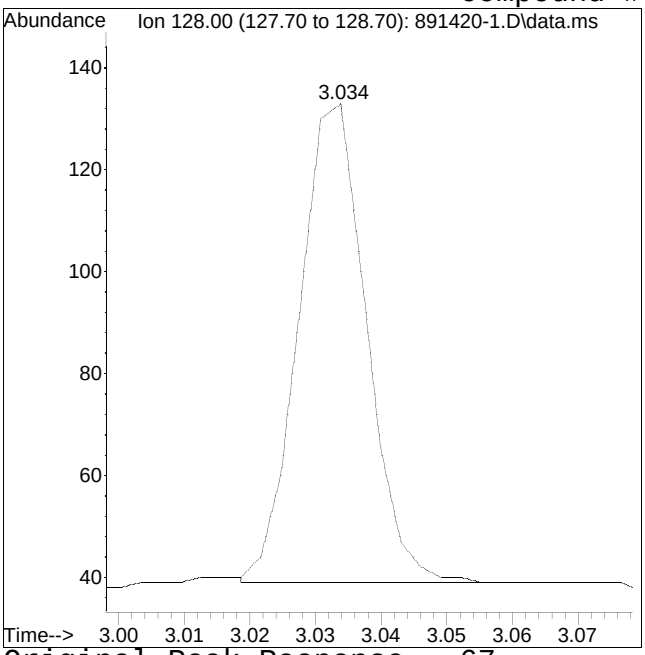
Ion	Ratio	Lower	Upper
202	100		
200	18.2	17.7	26.5



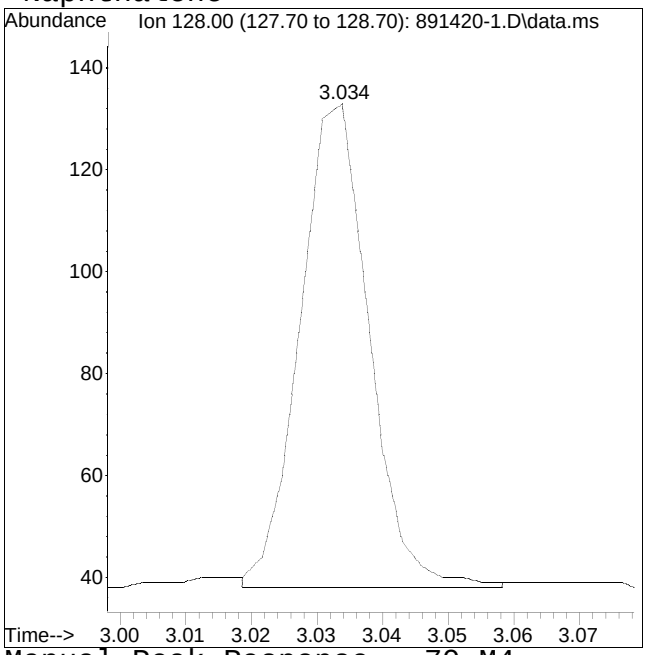
Manual Integration Report

Data Path : I:\8270SIM\SV128\240303\ QMethod : SIM-LVI_231211_sv128.M
Data File : 891420-1.D Operator : SV128:jjw
Date Inj'd : 3/3/2024 5:30 pm Instrument : SV128
Sample : WG1891420-1,32,,ah Quant Date : 3/3/2024 5:44 pm

Compound #9: Naphthalene



Original Peak Response = 67



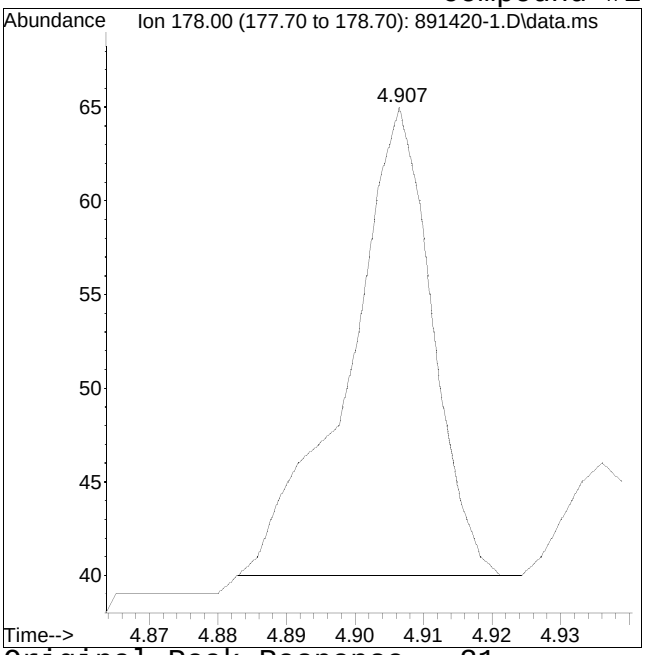
Manual Peak Response = 70 M4

M4 = Poor automated baseline construction.

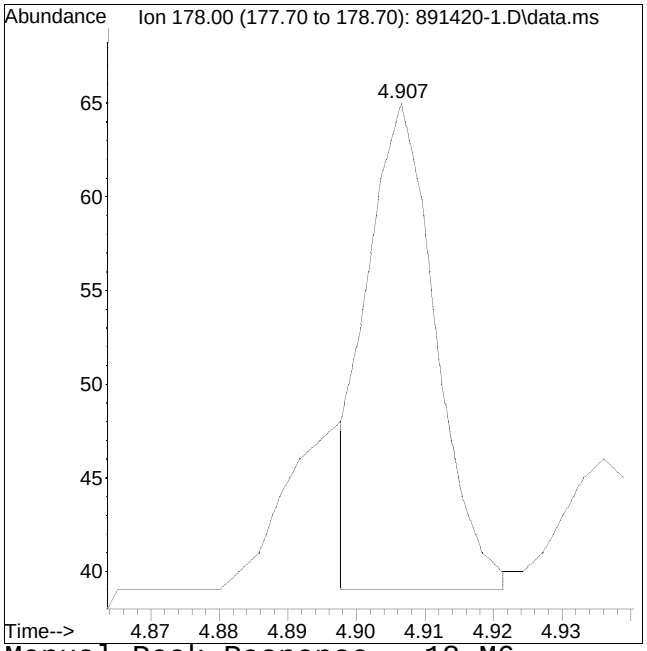
Manual Integration Report

Data Path : I:\8270SIM\SV128\240303\ QMethod : SIM-LVI_231211_sv128.M
Data File : 891420-1.D Operator : SV128:jjw
Date Inj'd : 3/3/2024 5:30 pm Instrument : SV128
Sample : WG1891420-1,32,,ah Quant Date : 3/3/2024 5:44 pm

Compound #26: Phenanthrene



Original Peak Response = 21



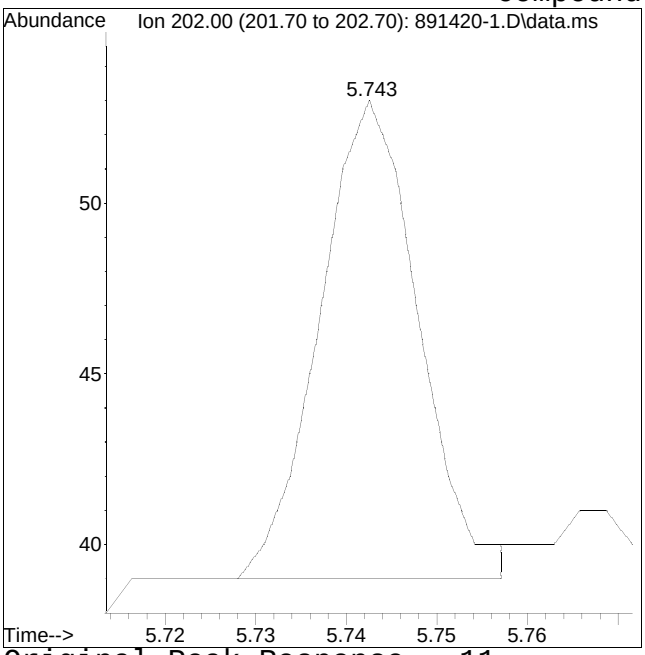
Manual Peak Response = 18 M6

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

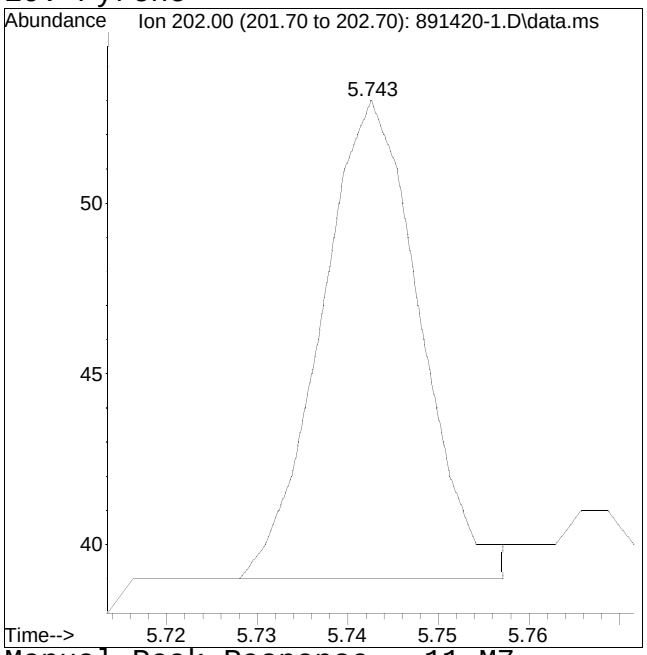
Manual Integration Report

Data Path : I:\8270SIM\SV128\240303\ QMethod : SIM-LVI_231211_sv128.M
Data File : 891420-1.D Operator : SV128:jjw
Date Inj'd : 3/3/2024 5:30 pm Instrument : SV128
Sample : WG1891420-1,32,,ah Quant Date : 3/3/2024 5:44 pm

Compound #29: Pyrene



Original Peak Response = 11



Manual Peak Response = 11 M7

M7 = A qualifier ion was manually integrated (only for GC/MS data).

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV128\240305\
Data File : 892049-1.D
Acq On : 05 Mar 2024 09:41 am
Operator : SV128:jjw
Sample : WG1892049-1,32,,ah
Misc : WG1892213,WG1892049,ical20676
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 05 10:31:40 2024
Quant Method : I:\8270sim\sv128\240305\SIM-LVI_231211_sv128.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Mar 05 07:15:56 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv128\240305\ccv0305a.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.268	152	2731	4000.000	ng/ml	0.00
Standard Area 1 = 1565			Recovery = 174.50%			
8) Naphthalene-d8	2.947	136	10375	4000.000	ng/ml	0.00
Standard Area 1 = 5966			Recovery = 173.90%			
17) Acenaphthene-d10	3.939	164	6771	4000.000	ng/ml	0.00
Standard Area 1 = 4044			Recovery = 167.43%			
22) Phenanthrene-d10	4.795	188	17349	4000.000	ng/ml	0.00
Standard Area 1 = 10610			Recovery = 163.52%			
31) Chrysene-d12	6.388	240	18645	4000.000	ng/ml	0.00
Standard Area 1 = 12274			Recovery = 151.91%			
36) Perylene-d12	7.687	264	21072	4000.000	ng/ml	-0.02
Standard Area 1 = 14188			Recovery = 148.52%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.656	112	1849	2688.629	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 53.77%			
3) Phenol-d6	2.082	99	2040	2538.208	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 50.76%			
7) Nitrobenzene-d5	2.556	82	1399	2153.904	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 86.16%			
13) 2-Fluorobiphenyl	3.551	172	4198	1907.977	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 76.32%			
21) 2,4,6-Tribromophenol	4.394	330	1241	3667.719	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 73.35%			
30) 4-Terphenyl-d14	5.728	244	7612	2106.006	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 84.24%			
Target Compounds						Qvalue
6) Hexachloroethane	0.000		0	N.D.		
9) Naphthalene	2.956	128	129	48.486	ng/ml#	100
10) Hexachlorobutadiene	0.000		0	N.D.		
11) 2-Methylnaphthalene	3.344	142	19	11.179	ng/ml	100
14) 2-Chloronaphthalene	0.000		0	N.D.	d	
16) Acenaphthylene	0.000		0	N.D.	d	
18) Acenaphthene	0.000		0	N.D.	d	
20) Fluorene	4.254	166	10M6	4.329	ng/ml	
24) Hexachlorobenzene	0.000		0	N.D.	d	
25) Pentachlorophenol	0.000		0	N.D.	d	

Data Path : I:\8270SIM\SV128\240305\
Data File : 892049-1.D
Acq On : 05 Mar 2024 09:41 am
Operator : SV128:jjw
Sample : WG1892049-1,32,,ah
Misc : WG1892213,WG1892049,ical20676
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 05 10:31:40 2024
Quant Method : I:\8270sim\sv128\240305\SIM-LVI_231211_sv128.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Mar 05 07:15:56 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv128\240305\ccv0305a.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Phenanthrene	4.807	178	40M6	8.526	ng/ml	
27) Anthracene	4.839	178	16M4	3.530	ng/ml	
28) Fluoranthene	5.501	202	120M1	23.282	ng/ml	
29) Pyrene	5.635	202	149	27.941	ng/ml	99
32) Benzo[a]anthracene	6.380	228	242M1	29.671	ng/ml	
34) Chrysene	6.404	228	211M6	32.826	ng/ml	
37) Benzo[b]fluoranthene	7.288	252	268M6	41.069	ng/ml	
38) Benzo[k]fluoranthene	7.310	252	74M3	12.186	ng/ml	
39) Benzo[a]pyrene	7.621	252	113	19.665	ng/ml	97
40) Indeno[1,2,3-cd]pyrene	8.997	276	121M7	21.058	ng/ml	
41) Dibenzo[a,h]anthracene	9.033	278	29M7	5.197	ng/ml	
42) Benzo[g,h,i]perylene	9.358	276	123M1	20.595	ng/ml	

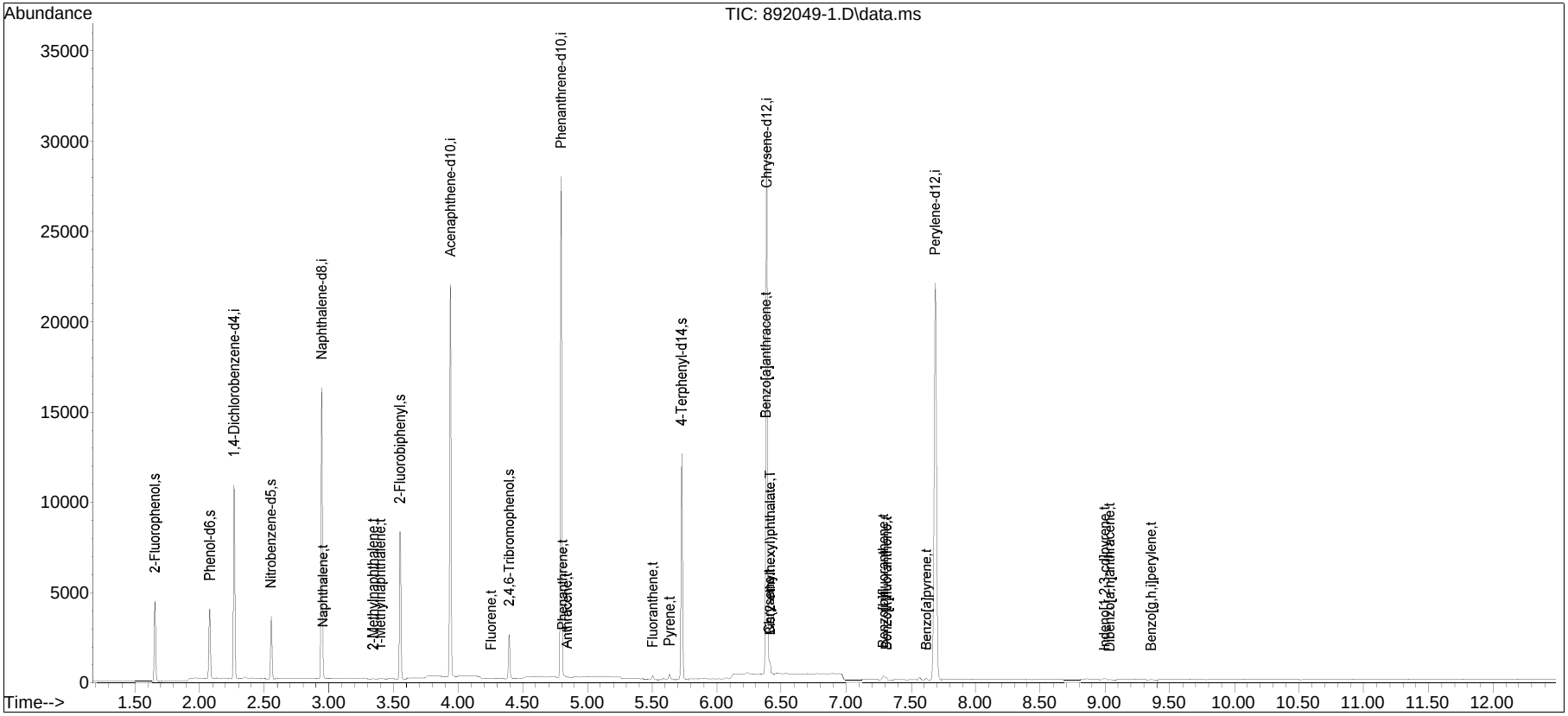
(#) = qualifier out of range (m) = manual integration (+) = signals summed

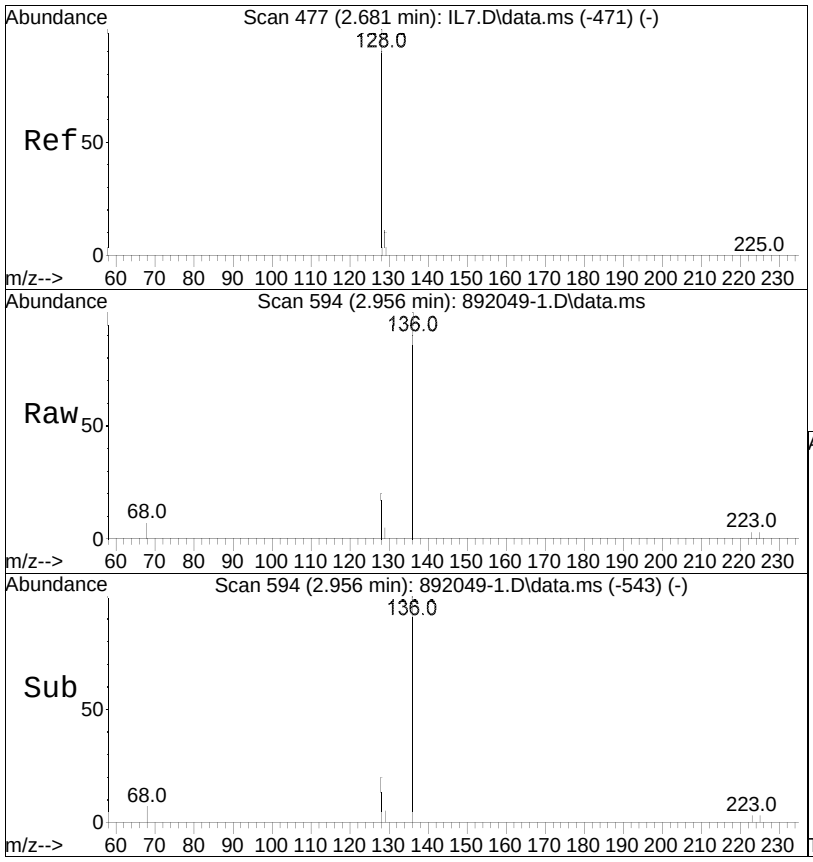
Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV128\240305\
Data File : 892049-1.D
Acq On : 05 Mar 2024 09:41 am
Operator : SV128:jjw
Sample : WG1892049-1,32,,ah
Misc : WG1892213,WG1892049,ical20676
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 05 10:31:40 2024
Quant Method : I:\8270sim\sv128\240305\SIM-LVI_231211_sv128.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Mar 05 07:15:56 2024
Response via : Initial Calibration

Sub List : DEFAULT - All compounds listedv0305a.D•

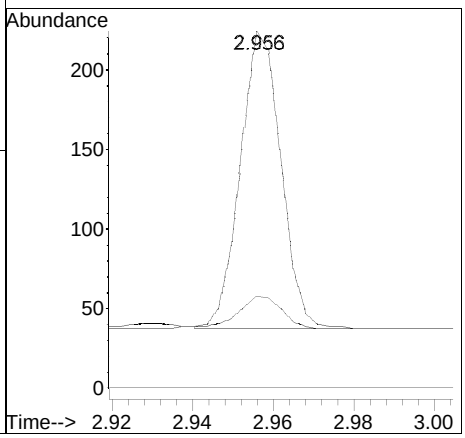


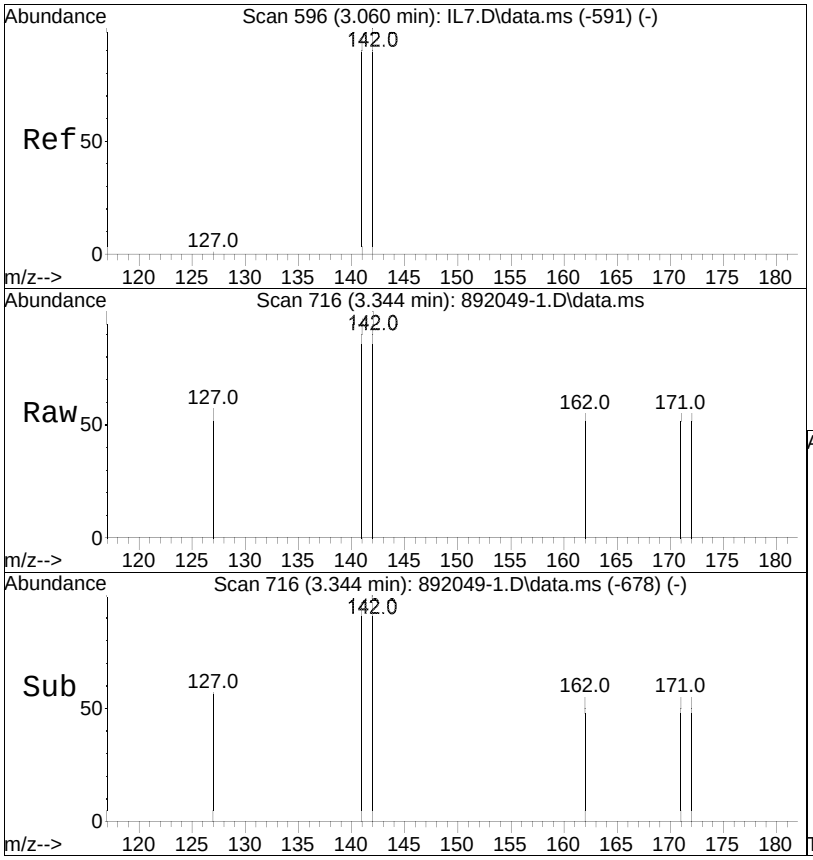


#9
Naphthalene
Concen: 48.49 ng/ml
RT: 2.956 min Scan# 594
Delta R.T. -0.001 min
Lab File: 892049-1.D
Acq: 05 Mar 2024 09:41 am

Tgt Ion:128 Resp: 129

Ion	Ratio	Lower	Upper
128	100		
129	10.9	8.8	13.2
127	0.0	0.0	0.0

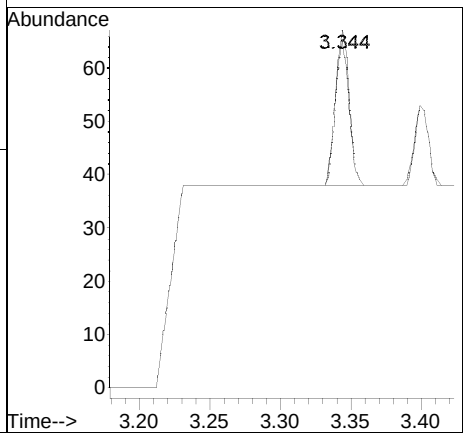


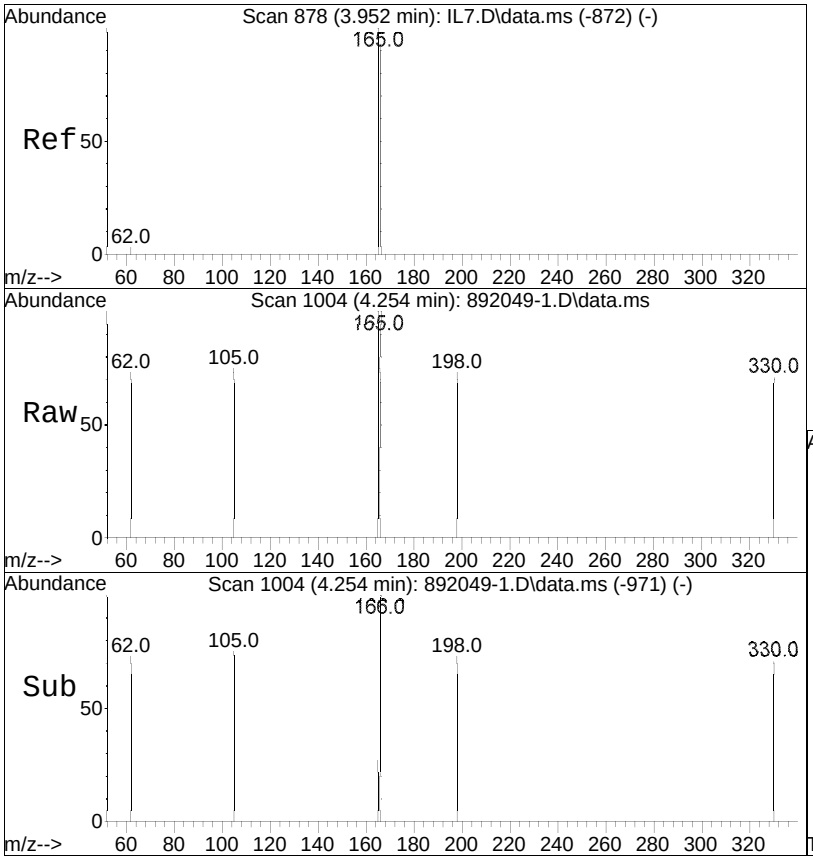


#11
2-Methylnaphthalene
Concen: 11.18 ng/ml
RT: 3.344 min Scan# 716
Delta R.T. -0.001 min
Lab File: 892049-1.D
Acq: 05 Mar 2024 09:41 am

Tgt Ion:142 Resp: 19

Ion	Ratio	Lower	Upper
142	100		
141	94.7	75.9	113.9

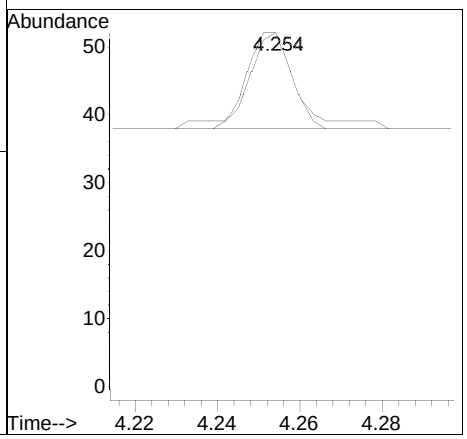


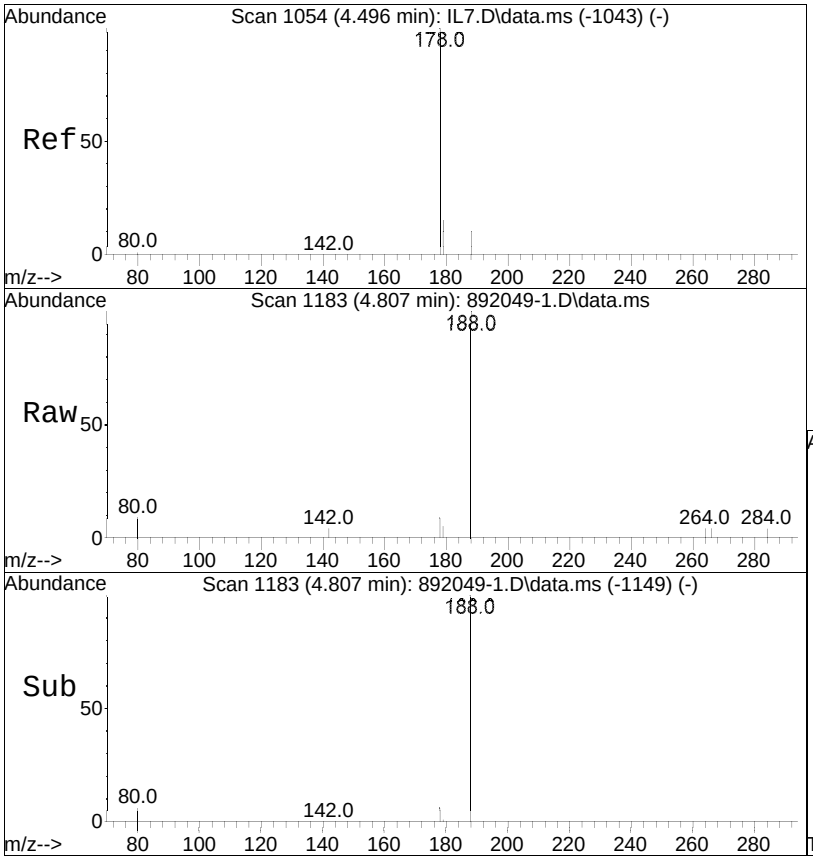


#20
Fluorene
Concen: 4.33 ng/ml M6
RT: 4.254 min Scan# 1004
Delta R.T. -0.004 min
Lab File: 892049-1.D
Acq: 05 Mar 2024 09:41 am

Tgt Ion:166 Resp: 10

Ion	Ratio	Lower	Upper
166	100		
165	110.0	85.7	128.5

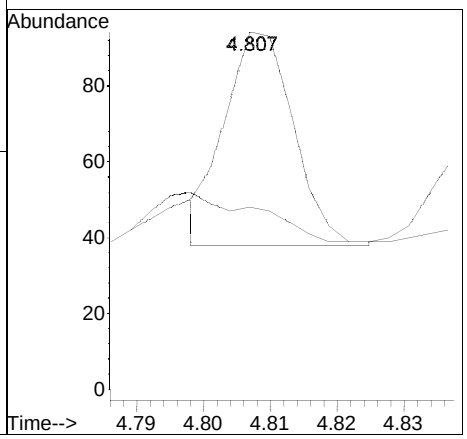


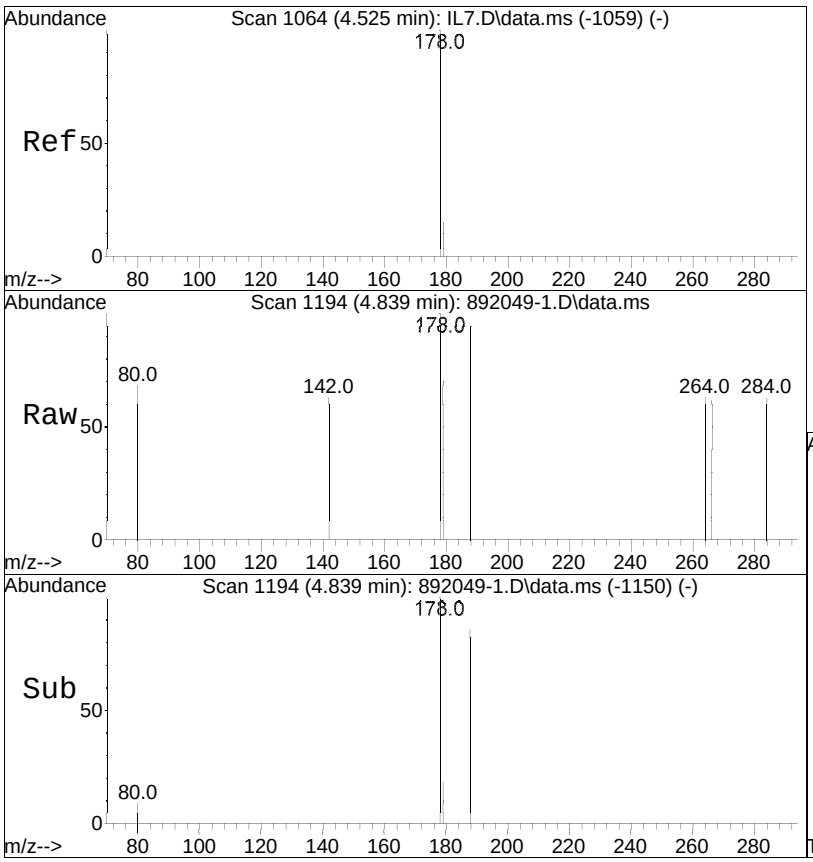


#26
Phenanthrene
Concen: 8.53 ng/ml M6
RT: 4.807 min Scan# 1183
Delta R.T. -0.007 min
Lab File: 892049-1.D
Acq: 05 Mar 2024 09:41 am

Tgt Ion:178 Resp: 40

Ion	Ratio	Lower	Upper
178	100		
179	12.5	12.2	18.4

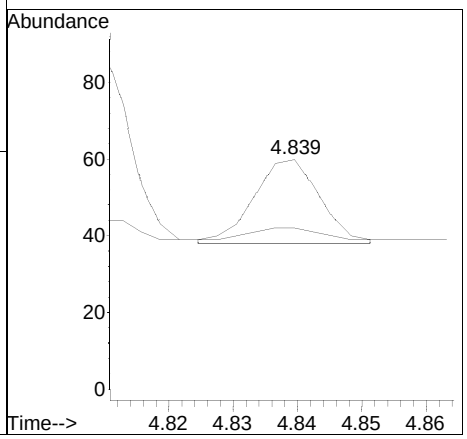


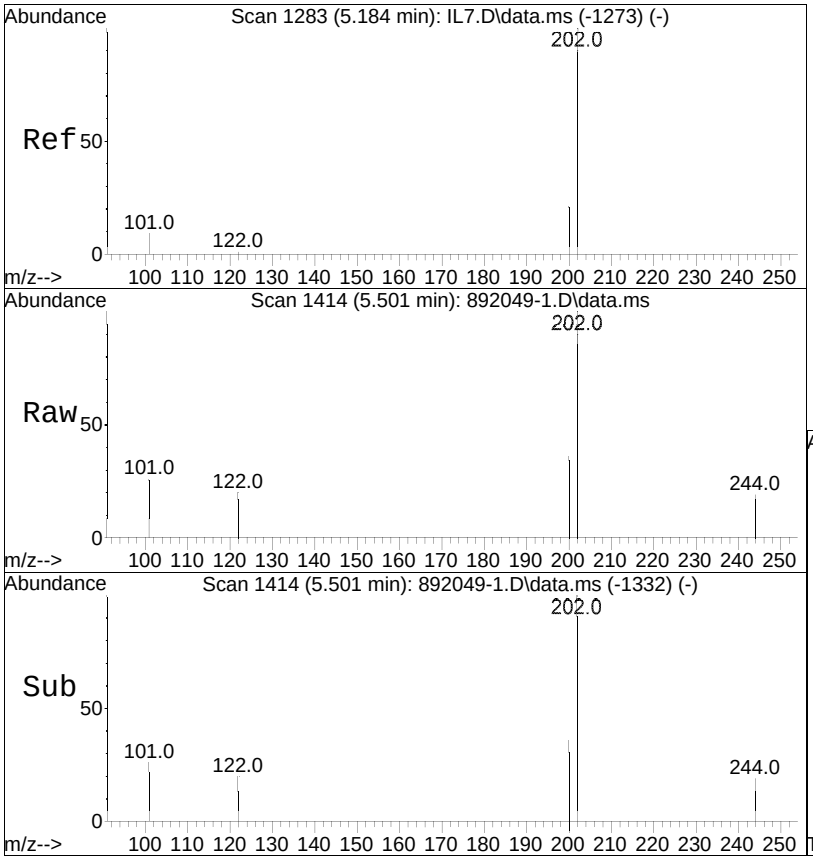


#27
Anthracene
Concen: 3.53 ng/ml M4
RT: 4.839 min Scan# 1194
Delta R.T. -0.004 min
Lab File: 892049-1.D
Acq: 05 Mar 2024 09:41 am

Tgt Ion:178 Resp: 16

Ion	Ratio	Lower	Upper
178	100		
179	12.5	12.2	18.2

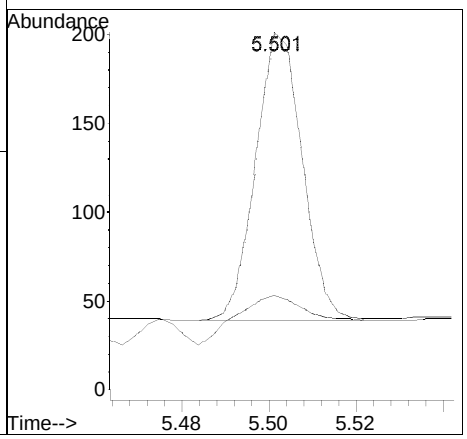


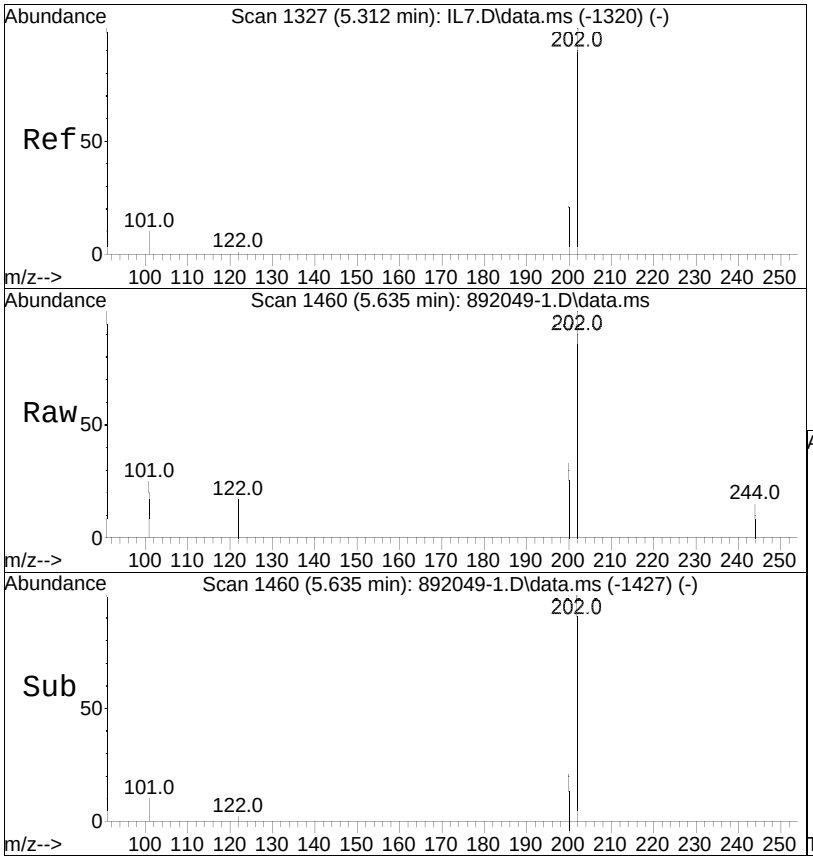


#28
Fluoranthene
Concen: 23.28 ng/ml M1
RT: 5.501 min Scan# 1414
Delta R.T. -0.010 min
Lab File: 892049-1.D
Acq: 05 Mar 2024 09:41 am

Tgt Ion:202 Resp: 120

Ion	Ratio	Lower	Upper
202	100		
101	9.2	7.2	10.8

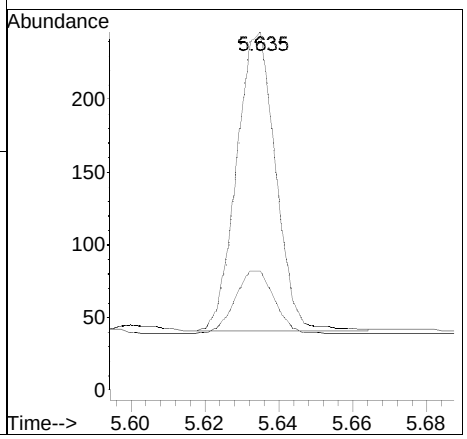


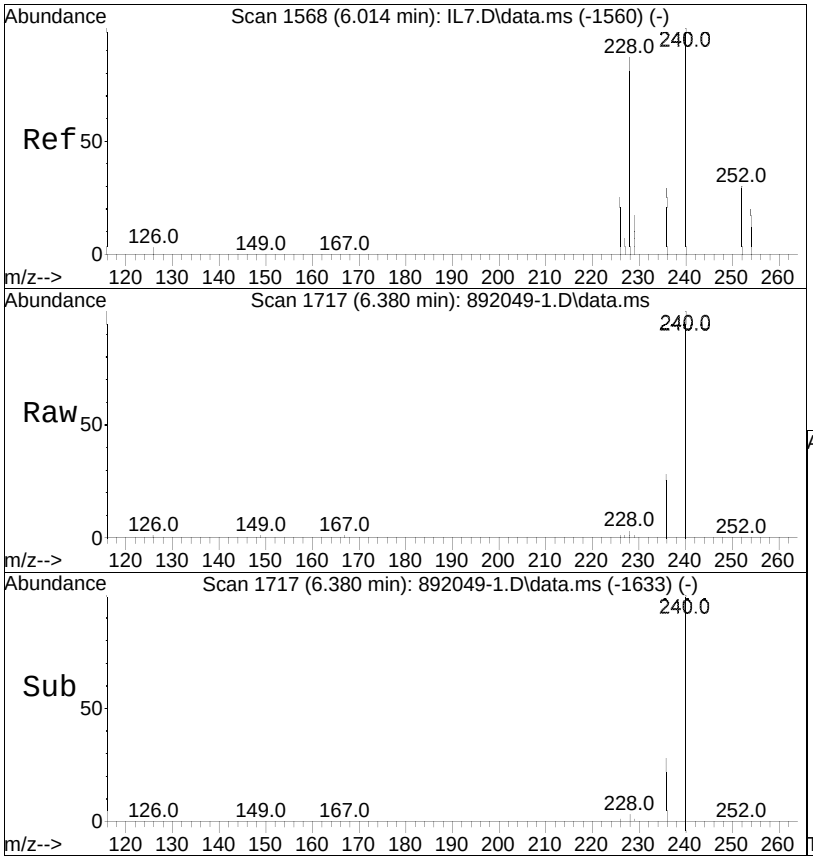


#29
Pyrene
Concen: 27.94 ng/ml
RT: 5.635 min Scan# 1460
Delta R.T. -0.007 min
Lab File: 892049-1.D
Acq: 05 Mar 2024 09:41 am

Tgt Ion:202 Resp: 149

Ion	Ratio	Lower	Upper
202	100		
200	21.5	17.7	26.5

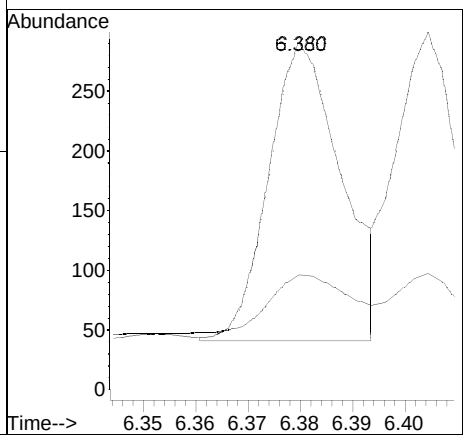


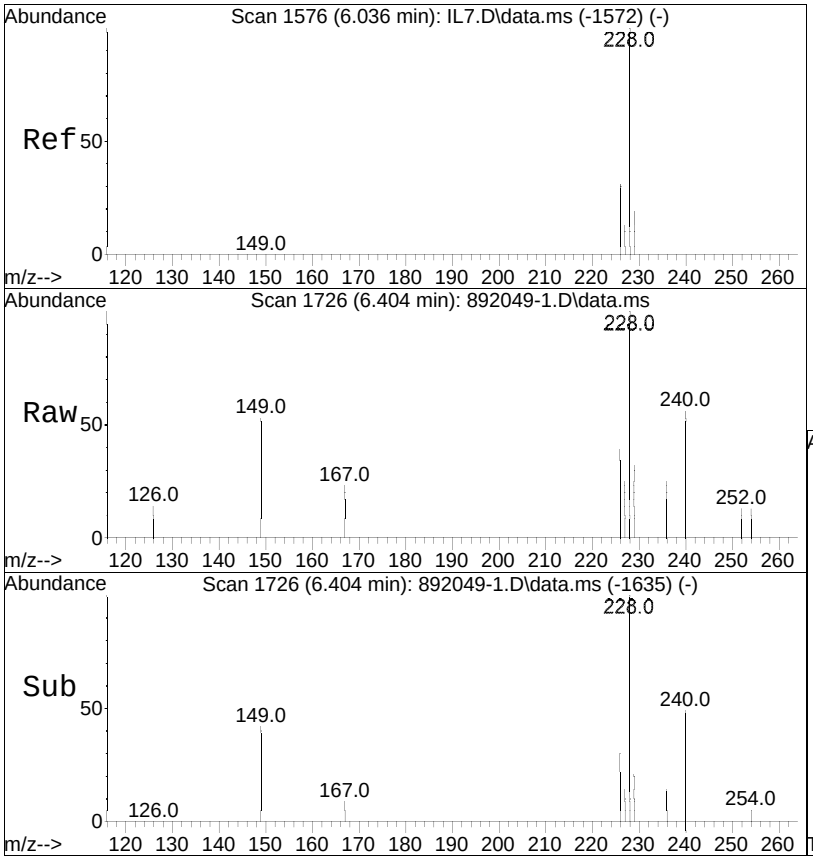


#32
Benzo[a]anthracene
Concen: 29.67 ng/ml M1
RT: 6.380 min Scan# 1717
Delta R.T. -0.009 min
Lab File: 892049-1.D
Acq: 05 Mar 2024 09:41 am

Tgt Ion:228 Resp: 242

Ion	Ratio	Lower	Upper
228	100		
229	25.6	15.7	23.5#

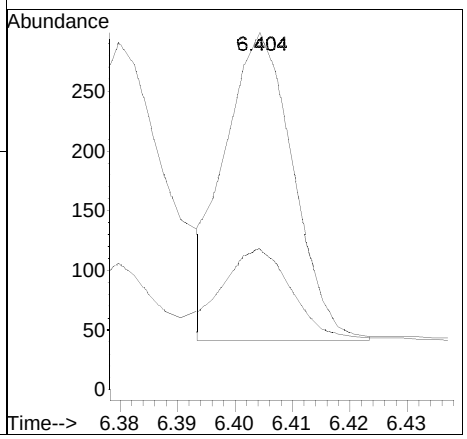


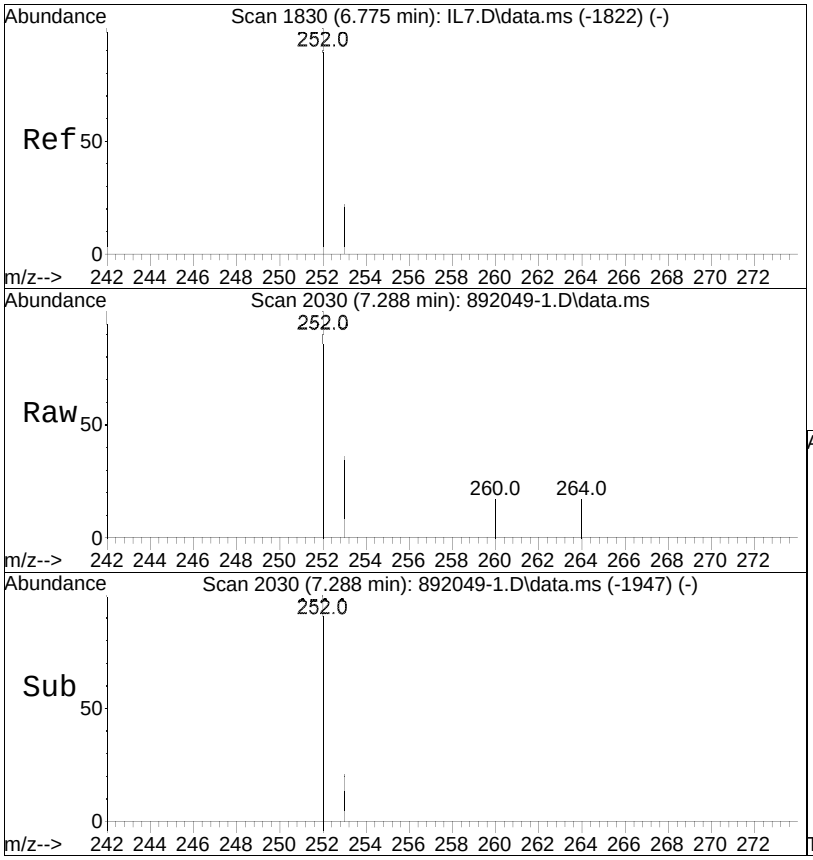


#34
Chrysene
Concen: 32.83 ng/ml M6
RT: 6.404 min Scan# 1726
Delta R.T. -0.011 min
Lab File: 892049-1.D
Acq: 05 Mar 2024 09:41 am

Tgt Ion:228 Resp: 211

Ion	Ratio	Lower	Upper
228	100		
226	32.2	24.6	36.8

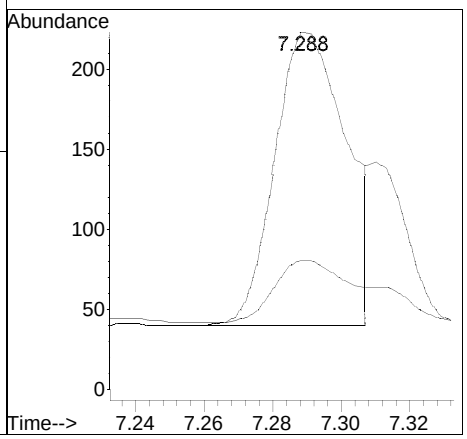


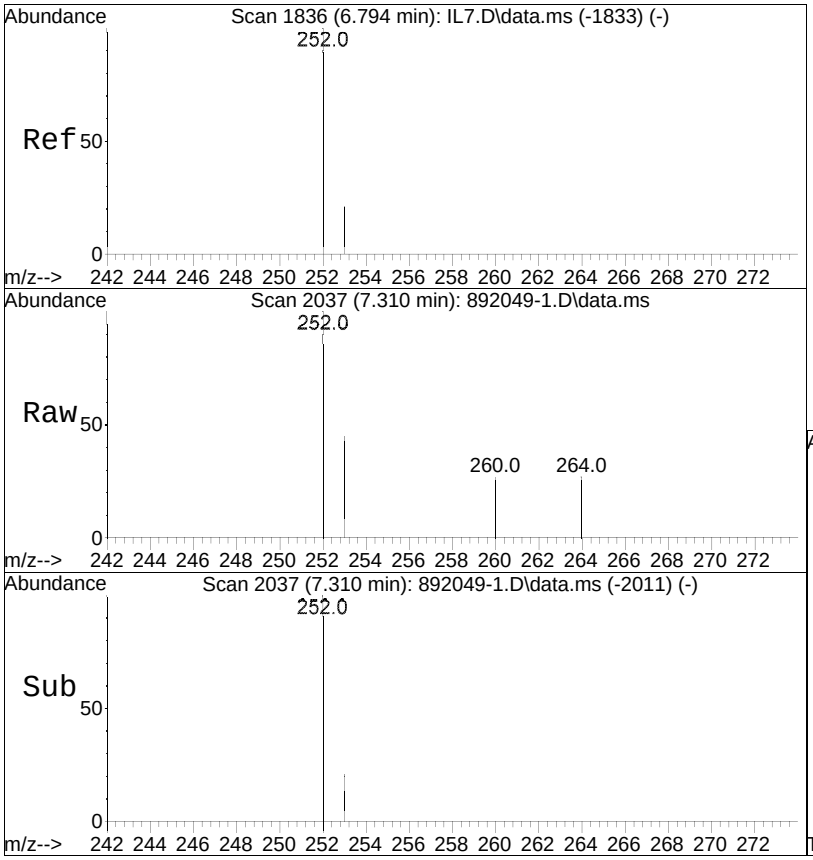


#37
Benzo[b]fluoranthene
Concen: 41.07 ng/ml M6
RT: 7.288 min Scan# 2030
Delta R.T. -0.016 min
Lab File: 892049-1.D
Acq: 05 Mar 2024 09:41 am

Tgt Ion:252 Resp: 268

Ion	Ratio	Lower	Upper
252	100		
253	22.4	17.1	25.7

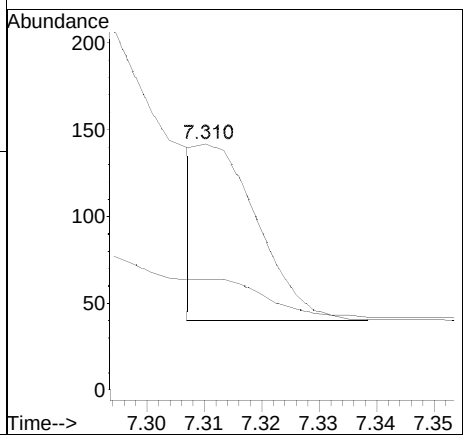


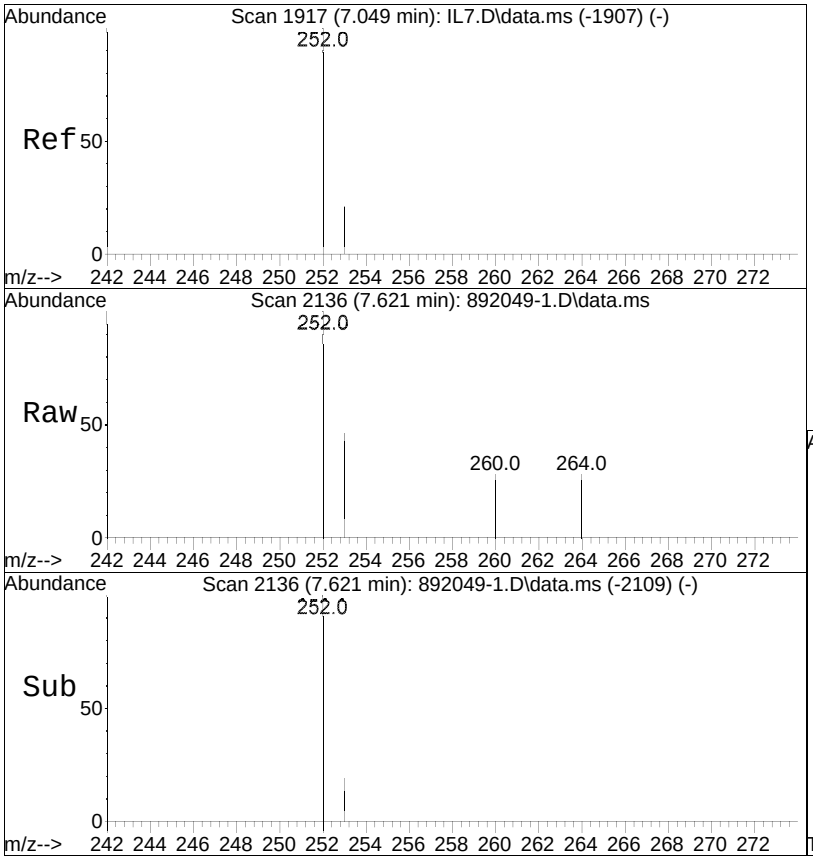


#38
Benzo[k]fluoranthene
Concen: 12.19 ng/ml M3
RT: 7.310 min Scan# 2037
Delta R.T. -0.019 min
Lab File: 892049-1.D
Acq: 05 Mar 2024 09:41 am

Tgt Ion:252 Resp: 74

Ion	Ratio	Lower	Upper
252	100		
253	24.3	17.3	25.9

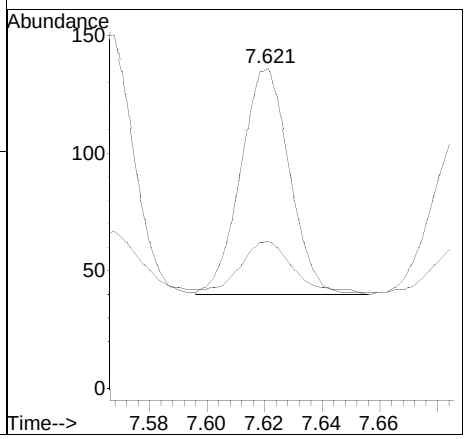


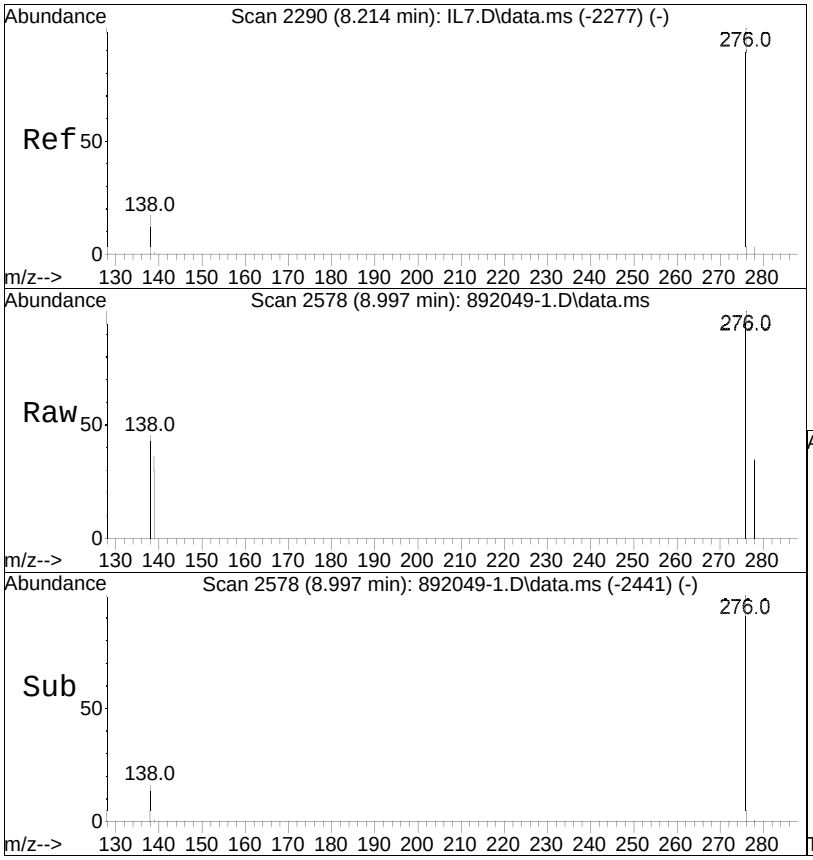


#39
Benzo[a]pyrene
Concen: 19.66 ng/ml
RT: 7.621 min Scan# 2136
Delta R.T. -0.016 min
Lab File: 892049-1.D
Acq: 05 Mar 2024 09:41 am

Tgt Ion:252 Resp: 113

Ion	Ratio	Lower	Upper
252	100		
253	23.0	17.3	25.9

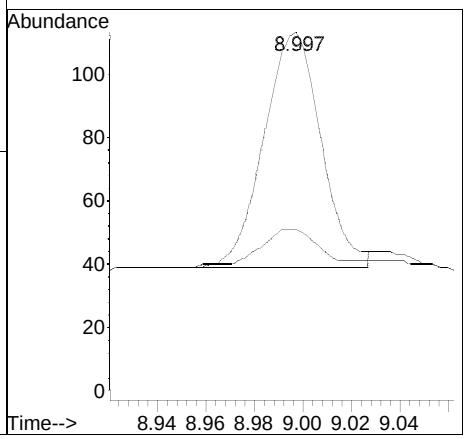


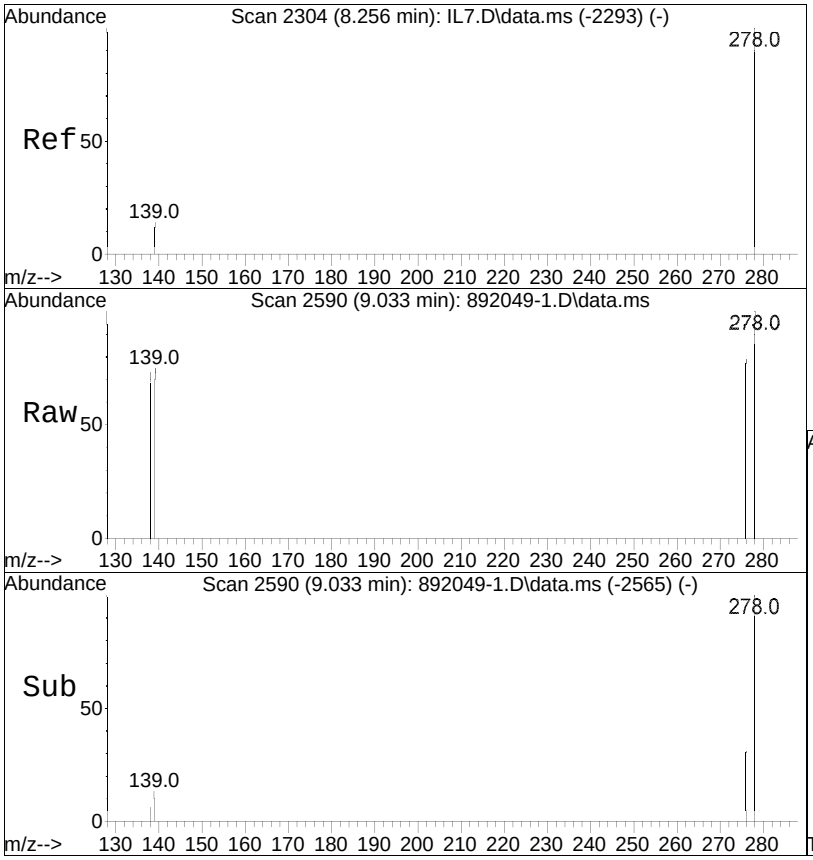


#40
Indeno[1,2,3-cd]pyrene
Concen: 21.06 ng/ml M7
RT: 8.997 min Scan# 2578
Delta R.T. -0.024 min
Lab File: 892049-1.D
Acq: 05 Mar 2024 09:41 am

Tgt Ion:276 Resp: 121

Ion	Ratio	Lower	Upper
276	100		
138	15.7	13.4	20.2

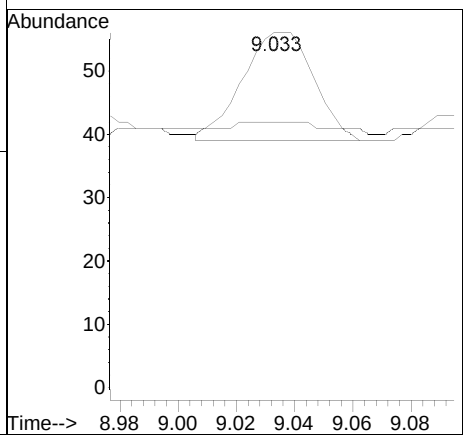


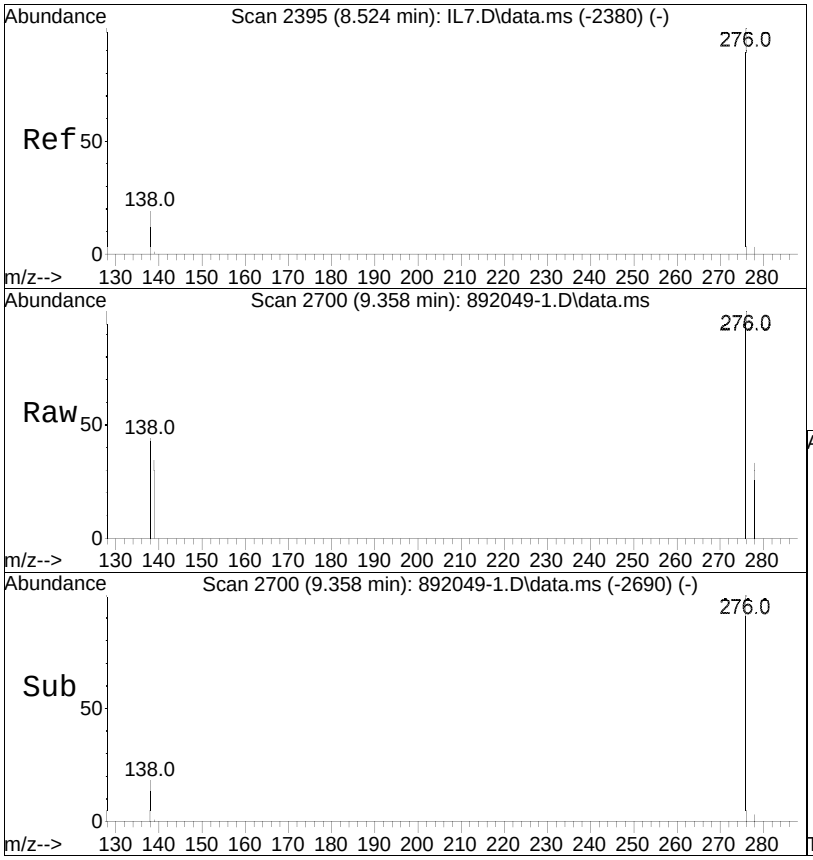


#41
Dibenzo[a,h]anthracene
Concen: 5.20 ng/ml M7
RT: 9.033 min Scan# 2590
Delta R.T. -0.027 min
Lab File: 892049-1.D
Acq: 05 Mar 2024 09:41 am

Tgt Ion:278 Resp: 29

Ion	Ratio	Lower	Upper
278	100		
139	13.8	10.9	16.3

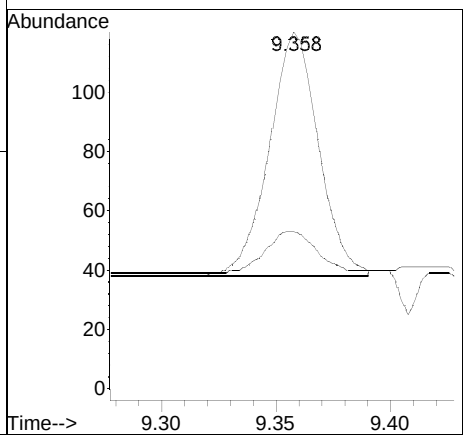




#42
Benzo[g,h,i]perylene
Concen: 20.59 ng/ml M1
RT: 9.358 min Scan# 2700
Delta R.T. -0.021 min
Lab File: 892049-1.D
Acq: 05 Mar 2024 09:41 am

Tgt Ion:276 Resp: 123

Ion	Ratio	Lower	Upper
276	100		
138	17.9	14.8	22.2

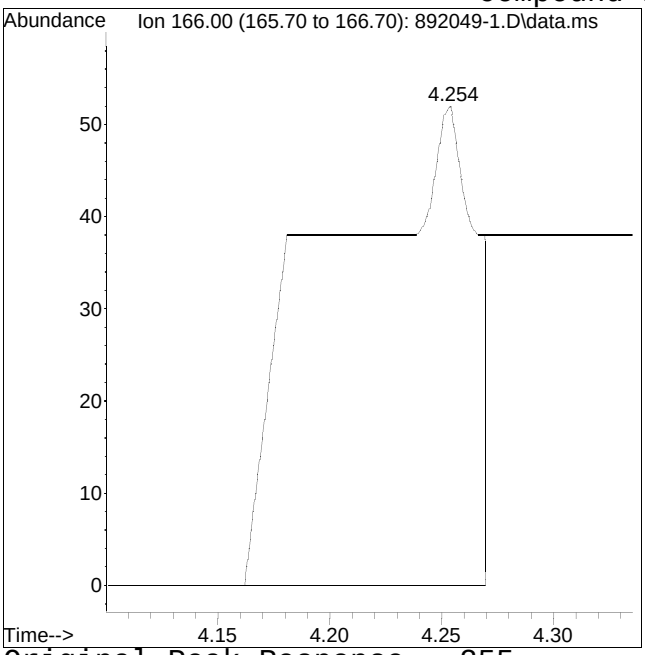


Manual Integration Report

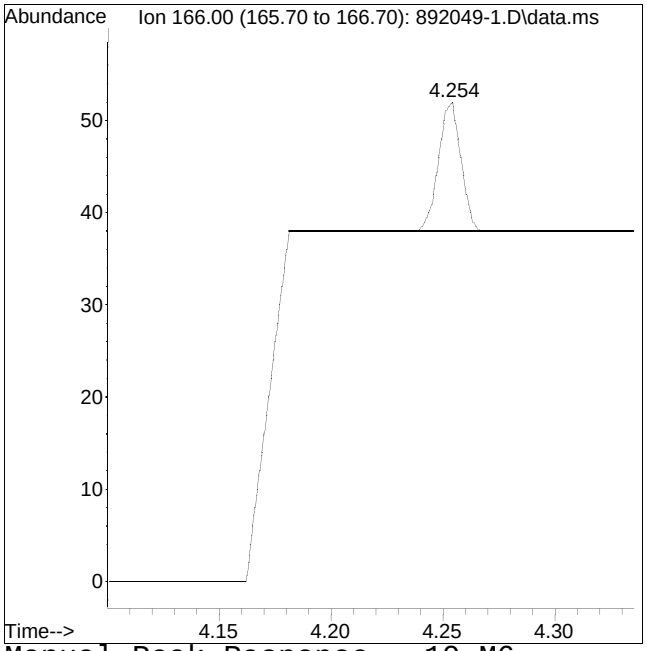
Data Path : I:\8270SIM\SV128\240305\
Data File : 892049-1.D
Date Inj'd : 3/5/2024 9:41 am
Sample : WG1892049-1,32,,ah

QMethod : SIM-LVI_231211_sv128.M
Operator : SV128:jjw
Instrument : SV128
Quant Date : 3/5/2024 9:57 am

Compound #20: Fluorene



Original Peak Response = 255



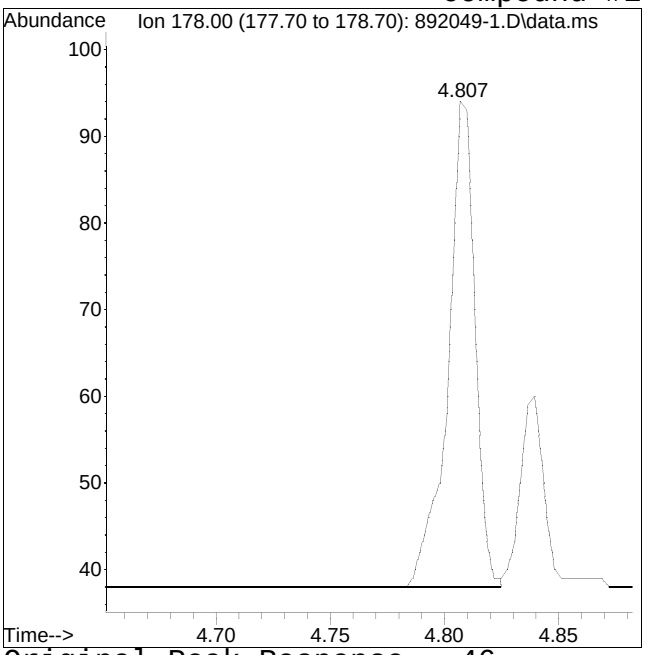
Manual Peak Response = 10 M6

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

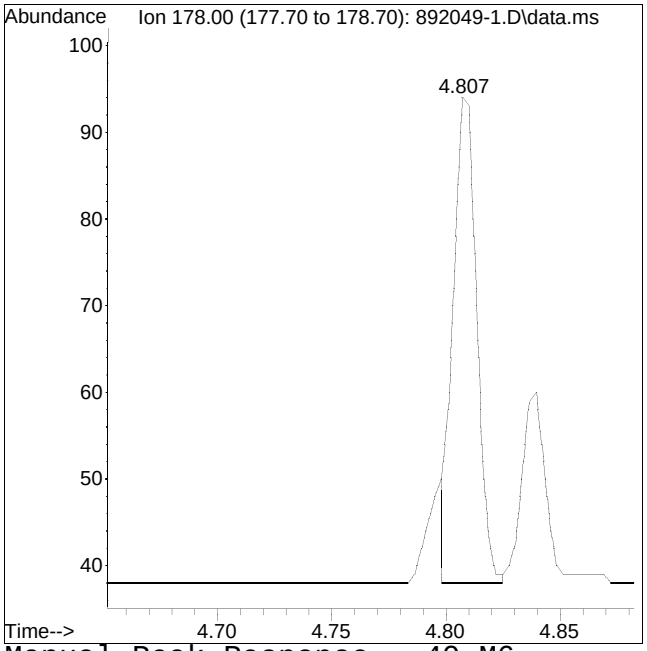
Manual Integration Report

Data Path : I:\8270SIM\SV128\240305\ QMethod : SIM-LVI_231211_sv128.M
Data File : 892049-1.D Operator : SV128:jjw
Date Inj'd : 3/5/2024 9:41 am Instrument : SV128
Sample : WG1892049-1,32,,ah Quant Date : 3/5/2024 9:57 am

Compound #26: Phenanthrene



Original Peak Response = 46



Manual Peak Response = 40 M6

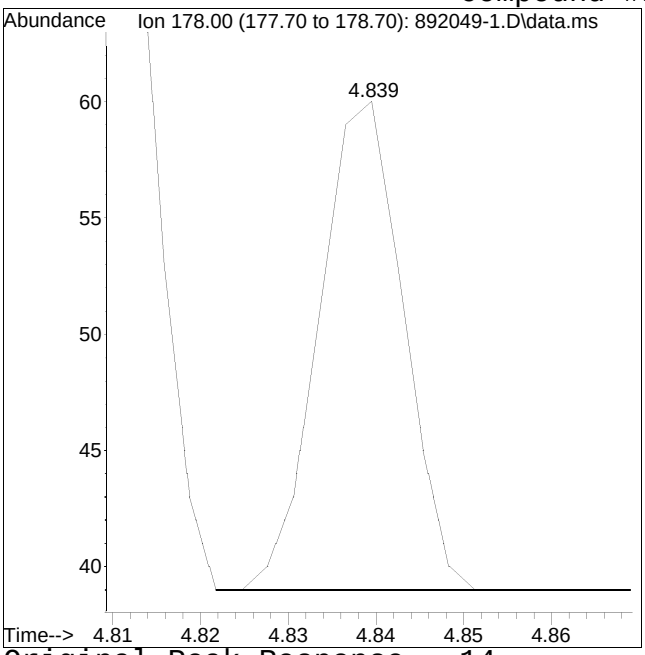
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

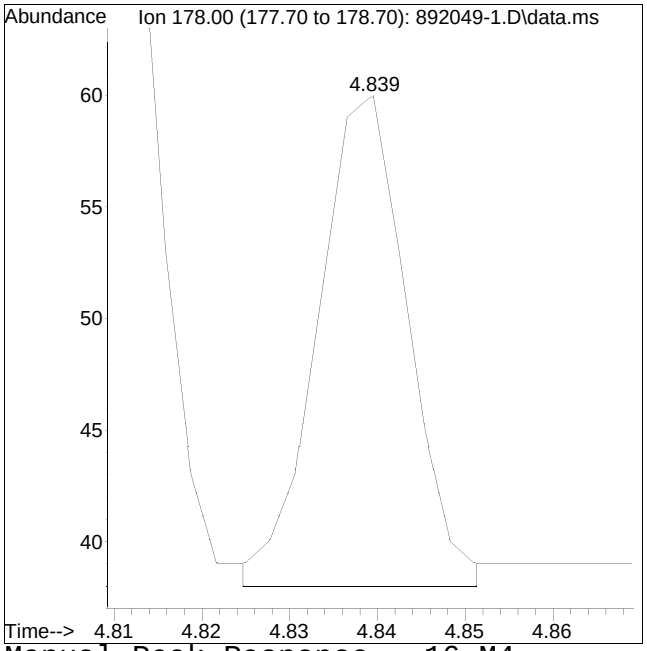
Data Path : I:\8270SIM\SV128\240305\
Data File : 892049-1.D
Date Inj'd : 3/5/2024 9:41 am
Sample : WG1892049-1,32,,ah

QMethod : SIM-LVI_231211_sv128.M
Operator : SV128:jjw
Instrument : SV128
Quant Date : 3/5/2024 9:57 am

Compound #27: Anthracene



Original Peak Response = 14



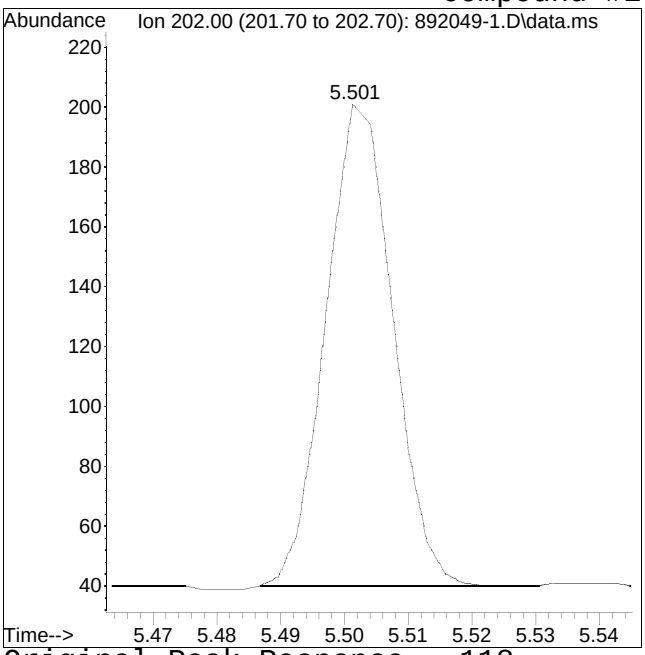
Manual Peak Response = 16 M4

M4 = Poor automated baseline construction.

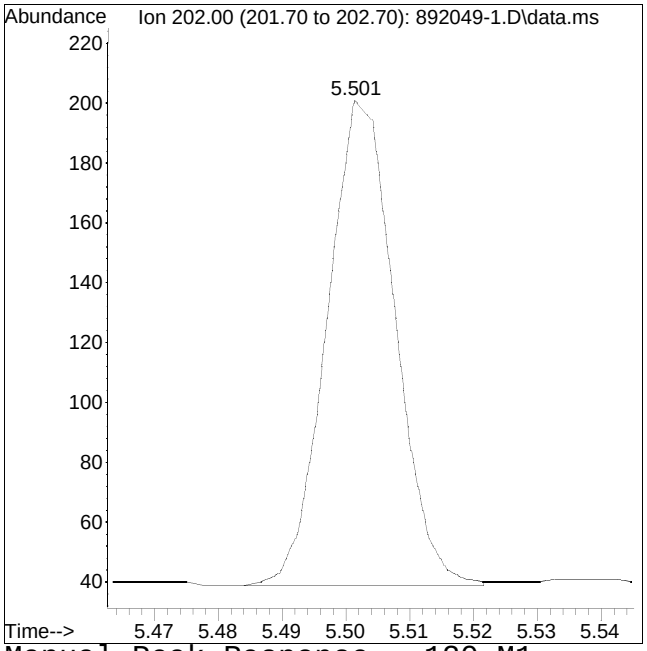
Manual Integration Report

Data Path : I:\8270SIM\SV128\240305\ QMethod : SIM-LVI_231211_sv128.M
Data File : 892049-1.D Operator : SV128:jjw
Date Inj'd : 3/5/2024 9:41 am Instrument : SV128
Sample : WG1892049-1,32,,ah Quant Date : 3/5/2024 9:57 am

Compound #28: Fluoranthene



Original Peak Response = 118



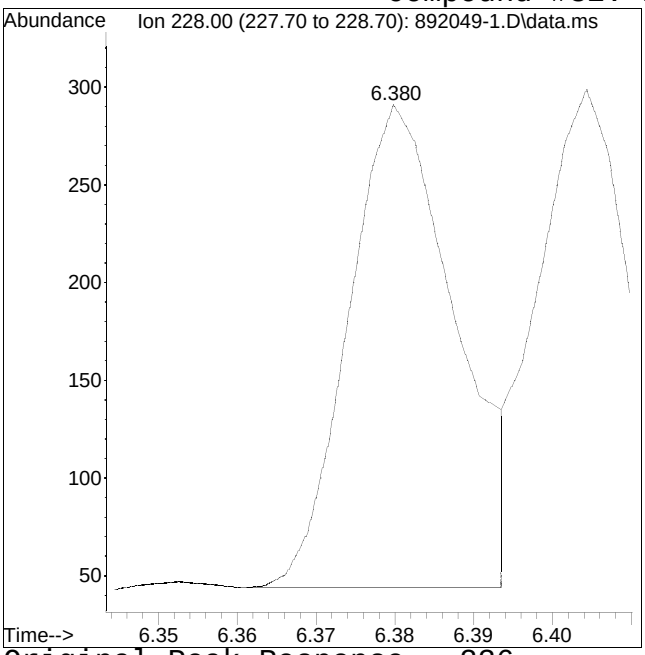
Manual Peak Response = 120 M1

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

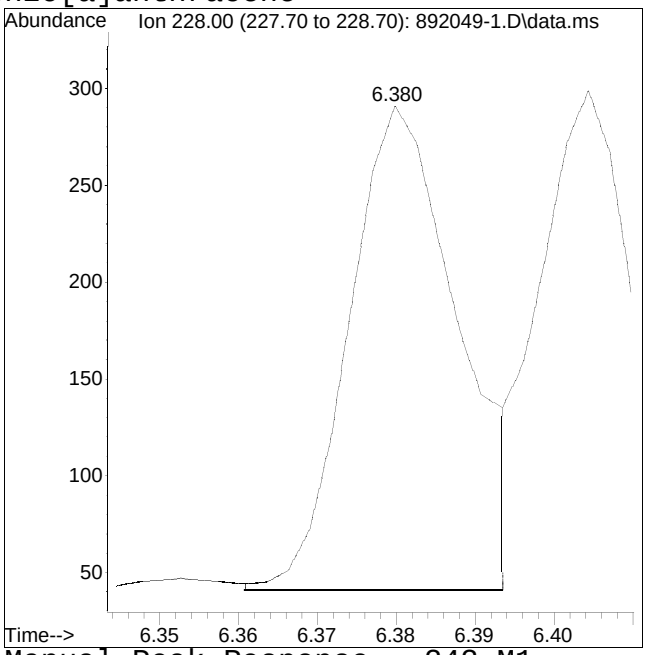
Manual Integration Report

Data Path : I:\8270SIM\SV128\240305\ QMethod : SIM-LVI_231211_sv128.M
Data File : 892049-1.D Operator : SV128:jjw
Date Inj'd : 3/5/2024 9:41 am Instrument : SV128
Sample : WG1892049-1,32,,ah Quant Date : 3/5/2024 9:57 am

Compound #32: Benzo[a]anthracene



Original Peak Response = 236



Manual Peak Response = 242 M1

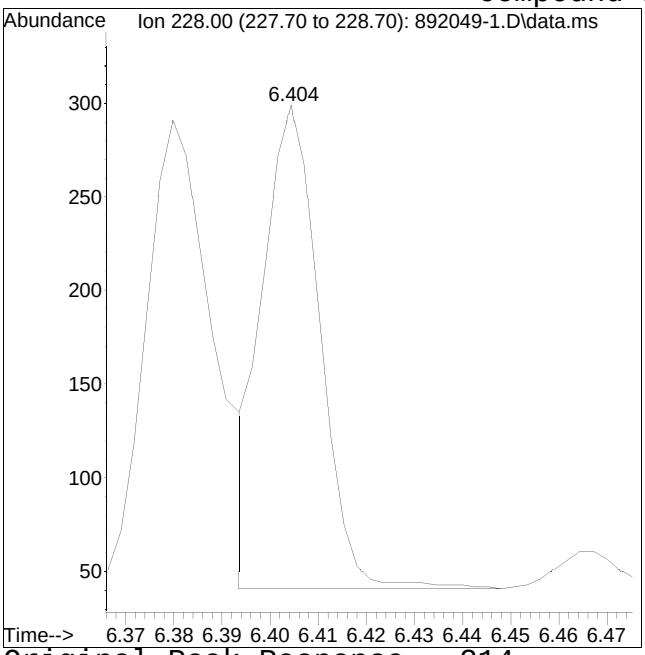
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

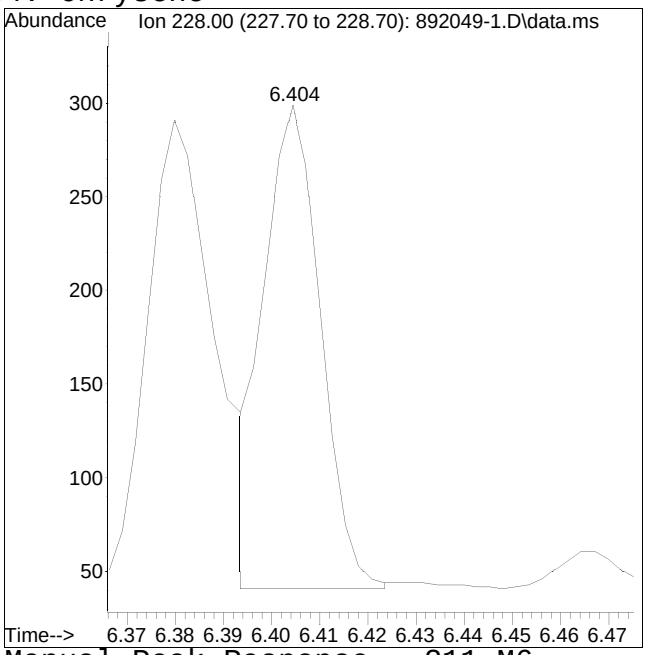
Data Path : I:\8270SIM\SV128\240305\
Data File : 892049-1.D
Date Inj'd : 3/5/2024 9:41 am
Sample : WG1892049-1,32,,ah

QMethod : SIM-LVI_231211_sv128.M
Operator : SV128:jjw
Instrument : SV128
Quant Date : 3/5/2024 9:57 am

Compound #34: Chrysene



Original Peak Response = 214



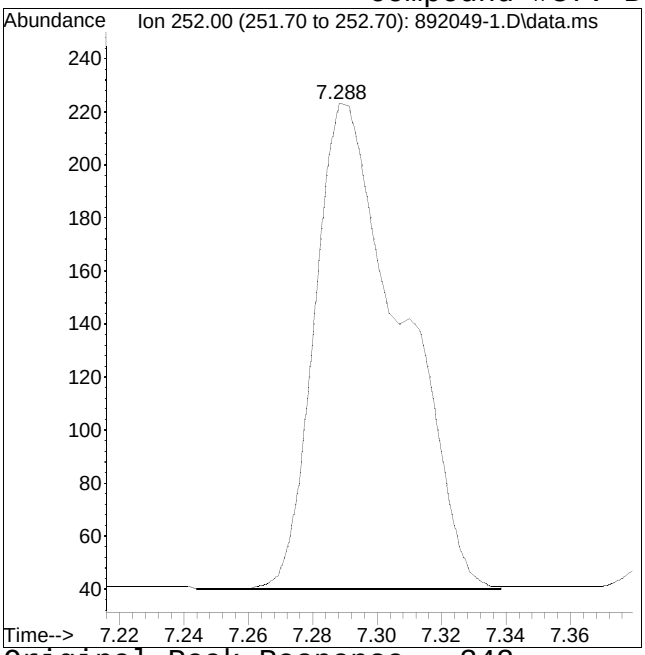
Manual Peak Response = 211 M6

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

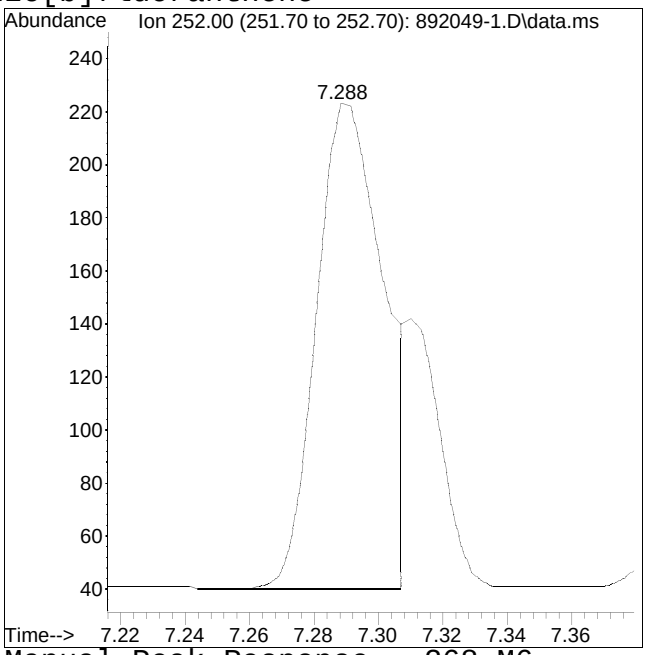
Manual Integration Report

Data Path : I:\8270SIM\SV128\240305\ QMethod : SIM-LVI_231211_sv128.M
Data File : 892049-1.D Operator : SV128:jjw
Date Inj'd : 3/5/2024 9:41 am Instrument : SV128
Sample : WG1892049-1,32,,ah Quant Date : 3/5/2024 9:57 am

Compound #37: Benzo[b]fluoranthene



Original Peak Response = 342



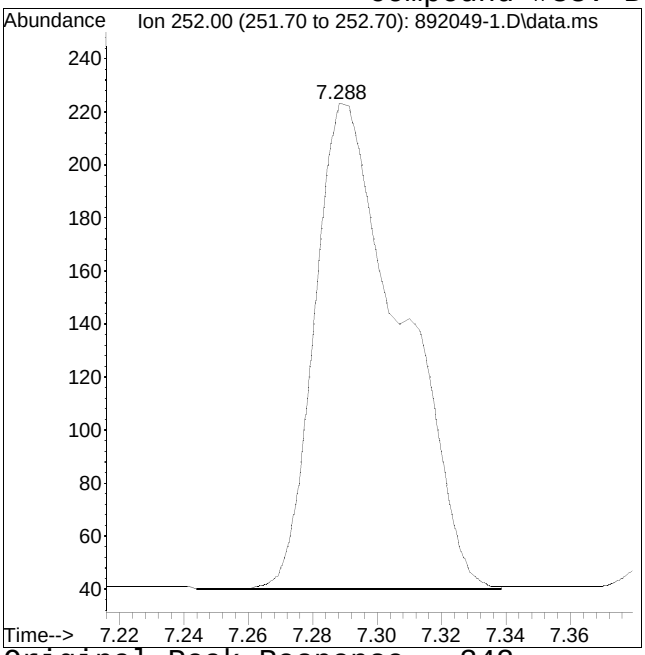
Manual Peak Response = 268 M6

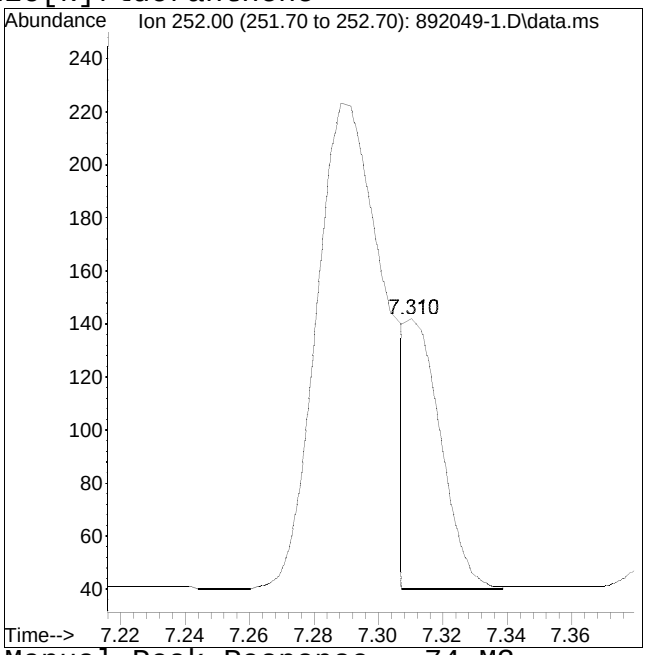
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

Data Path : I:\8270SIM\SV128\240305\ QMethod : SIM-LVI_231211_sv128.M
Data File : 892049-1.D Operator : SV128:jjw
Date Inj'd : 3/5/2024 9:41 am Instrument : SV128
Sample : WG1892049-1,32,,ah Quant Date : 3/5/2024 9:57 am

Compound #38: Benzo[k]fluoranthene





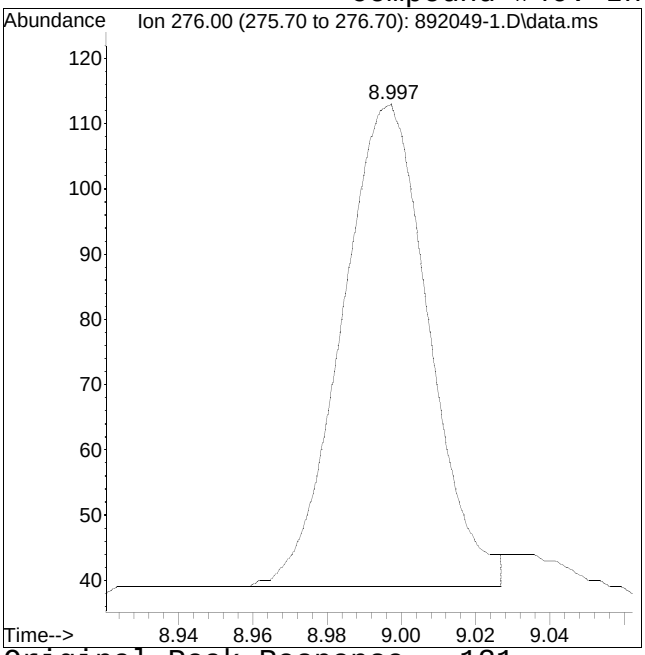
Original Peak Response = 342 Manual Peak Response = 74 M3

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

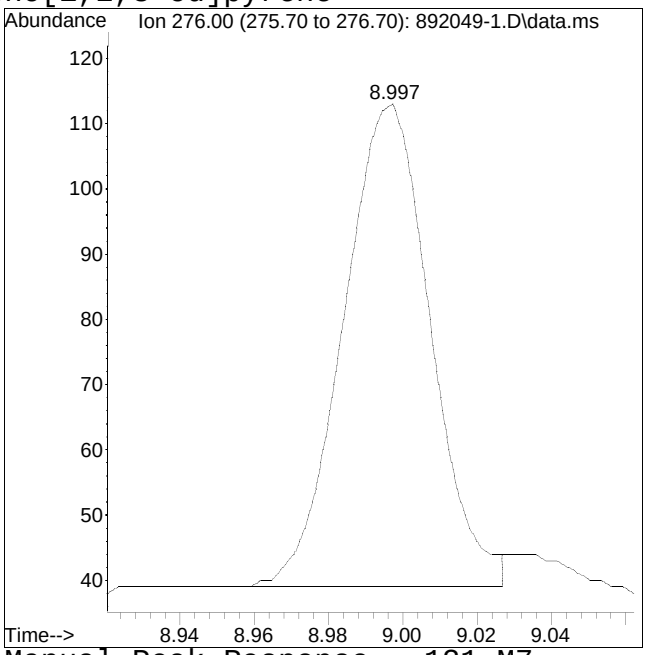
Manual Integration Report

Data Path : I:\8270SIM\SV128\240305\ QMethod : SIM-LVI_231211_sv128.M
Data File : 892049-1.D Operator : SV128:jjw
Date Inj'd : 3/5/2024 9:41 am Instrument : SV128
Sample : WG1892049-1,32,,ah Quant Date : 3/5/2024 9:57 am

Compound #40: Indeno[1,2,3-cd]pyrene



Original Peak Response = 121



Manual Peak Response = 121 M7

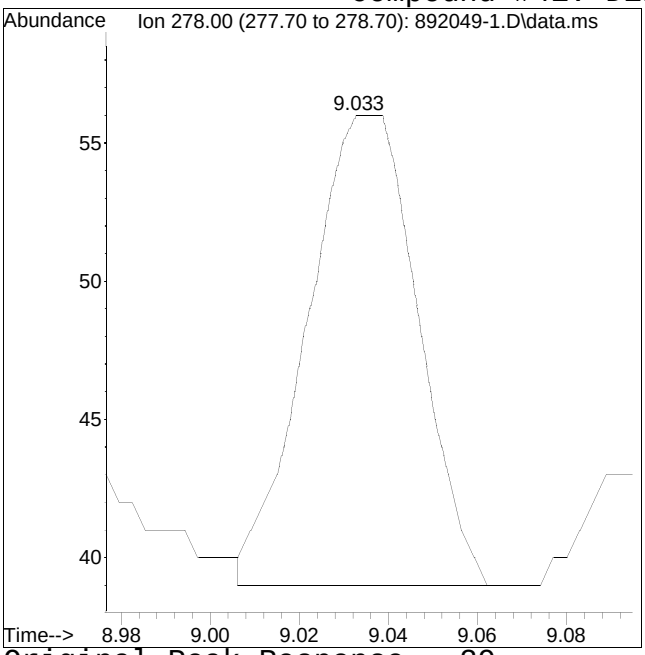
M7 = A qualifier ion was manually integrated (only for GC/MS data).

Manual Integration Report

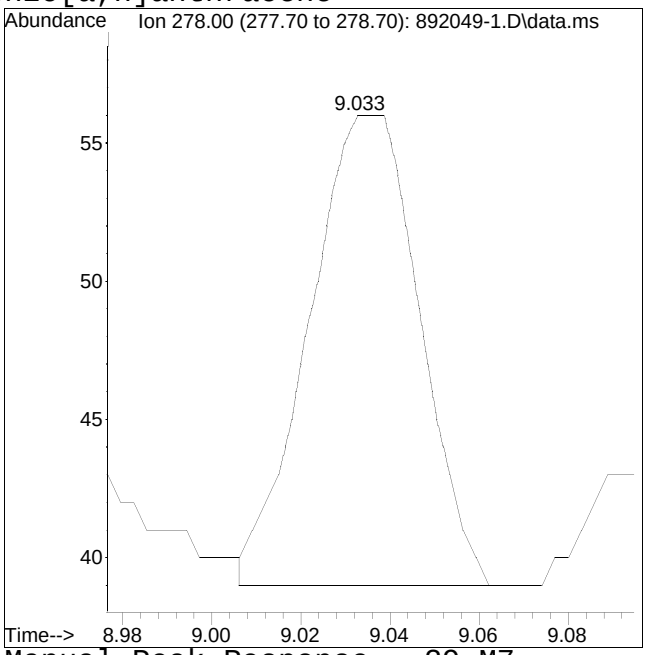
Data Path : I:\8270SIM\SV128\240305\
Data File : 892049-1.D
Date Inj'd : 3/5/2024 9:41 am
Sample : WG1892049-1,32,,ah

QMethod : SIM-LVI_231211_sv128.M
Operator : SV128:jjw
Instrument : SV128
Quant Date : 3/5/2024 9:57 am

Compound #41: Dibenzo[a,h]anthracene



Original Peak Response = 29



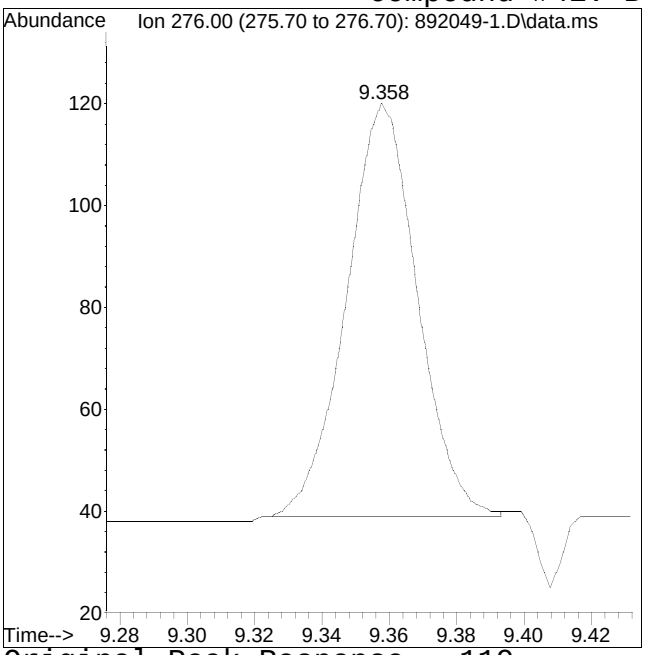
Manual Peak Response = 29 M7

M7 = A qualifier ion was manually integrated (only for GC/MS data).

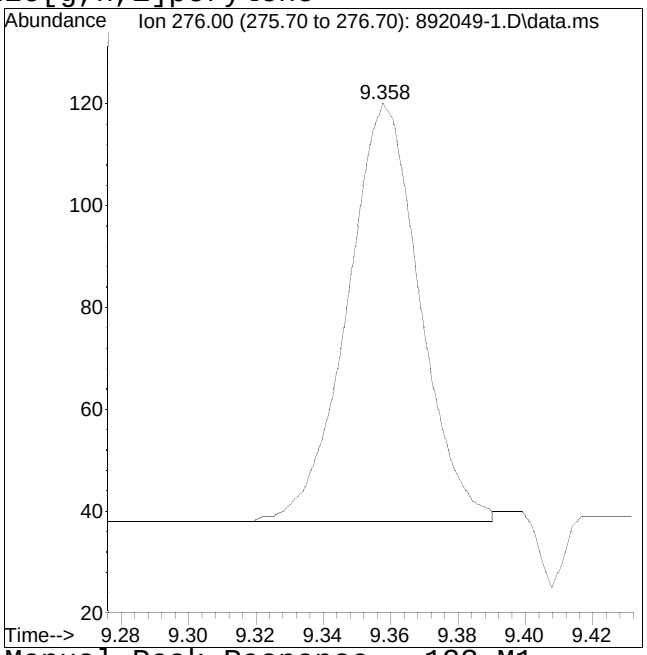
Manual Integration Report

Data Path : I:\8270SIM\SV128\240305\ QMethod : SIM-LVI_231211_sv128.M
Data File : 892049-1.D Operator : SV128:jjw
Date Inj'd : 3/5/2024 9:41 am Instrument : SV128
Sample : WG1892049-1,32,,ah Quant Date : 3/5/2024 9:57 am

Compound #42: Benzo[g,h,i]perylene



Original Peak Response = 119



Manual Peak Response = 123 M1

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\240306LVI\
Data File : 892407-1.D
Acq On : 06 Mar 2024 07:43 am
Operator : sv119:jjw
Sample : WG1892407-1,32,,ah
Misc : WG1892736,WG1892407,ical20642
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 06 09:40:05 2024
Quant Method : I:\8270sim\sv119\240306LVI\SIM-LVI_231207n_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Mar 06 07:14:42 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv119\240306LVI\ccv0306.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.118	152	45048	4000.000	ng/ml	-0.01
Standard Area 1 = 46268			Recovery = 97.36%			
8) Naphthalene-d8	2.780	136	158352	4000.000	ng/ml	-0.01
Standard Area 1 = 165599			Recovery = 95.62%			
17) Acenaphthene-d10	3.751	164	100990	4000.000	ng/ml	0.00
Standard Area 1 = 97417			Recovery = 103.67%			
22) Phenanthrene-d10	4.590	188	228218	4000.000	ng/ml	0.00
Standard Area 1 = 225040			Recovery = 101.41%			
31) Chrysene-d12	6.250	240	208791	4000.000	ng/ml	0.08
Standard Area 1 = 198834			Recovery = 105.01%			
36) Perylene-d12	7.380	264	205927	4000.000	ng/ml	0.09
Standard Area 1 = 192010			Recovery = 107.25%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.524	112	28741	2332.612	ng/ml	-0.01
Spiked Amount 5000.000	Range 15 - 110		Recovery = 46.65%			
3) Phenol-d6	1.937	99	28165	1906.964	ng/ml	-0.01
Spiked Amount 5000.000	Range 15 - 110		Recovery = 38.14%			
7) Nitrobenzene-d5	2.400	82	16591	1480.901	ng/ml	-0.01
Spiked Amount 2500.000	Range 30 - 130		Recovery = 59.24%			
13) 2-Fluorobiphenyl	3.376	172	47437	1341.312	ng/ml	-0.01
Spiked Amount 2500.000	Range 30 - 130		Recovery = 53.65%			
21) 2,4,6-Tribromophenol	4.197	330	14532	2610.036	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 52.20%			
30) 4-Terphenyl-d14	5.565	244	55244	987.440	ng/ml	0.04
Spiked Amount 2500.000	Range 30 - 130		Recovery = 39.50%			
Target Compounds						Qvalue
6) Hexachloroethane	0.000		0	N.D.	d	
9) Naphthalene	2.792	128	3139M4	83.018	ng/ml	
10) Hexachlorobutadiene	0.000		0	N.D.	d	
11) 2-Methylnaphthalene	3.170	142	288	10.301	ng/ml	100
14) 2-Chloronaphthalene	3.439	162	80	2.686	ng/ml	91
16) Acenaphthylene	3.671	152	240	5.423	ng/ml	97
18) Acenaphthene	3.767	153	93M6	2.979	ng/ml	
20) Fluorene	4.059	166	170M1	4.555	ng/ml	
24) Hexachlorobenzene	4.375	284	50	3.389	ng/ml	96
25) Pentachlorophenol	0.000		0	N.D.	d	

Data Path : I:\8270SIM\sv119\240306LVI\
Data File : 892407-1.D
Acq On : 06 Mar 2024 07:43 am
Operator : sv119:jjw
Sample : WG1892407-1,32,,ah
Misc : WG1892736,WG1892407,ical20642
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 06 09:40:05 2024
Quant Method : I:\8270sim\sv119\240306LVI\SIM-LVI_231207n_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Mar 06 07:14:42 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv119\240306LVI\ccv0306.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Phenanthrene	4.606	178	310M4	5.347	ng/ml	
27) Anthracene	4.634	178	164M4	2.853	ng/ml	
28) Fluoranthene	5.318	202	245	3.207	ng/ml#	91
29) Pyrene	5.456	202	253M3	3.223	ng/ml	
32) Benzo[a]anthracene	6.247	228	901	2.281	ng/ml#	72
34) Chrysene	6.265	228	168M4	2.438	ng/ml	
37) Benzo[b]fluoranthene	7.033	252	207M4	2.877	ng/ml	
38) Benzo[k]fluoranthene	7.057	252	190M4	2.781	ng/ml	
39) Benzo[a]pyrene	7.321	252	168M4	2.653	ng/ml	
40) Indeno[1,2,3-cd]pyrene	8.505	276	176M3	2.557	ng/ml	
41) Dibenzo[a,h]anthracene	8.540	278	152M6	2.374	ng/ml	
42) Benzo[g,h,i]perylene	8.818	276	170M7	2.428	ng/ml	

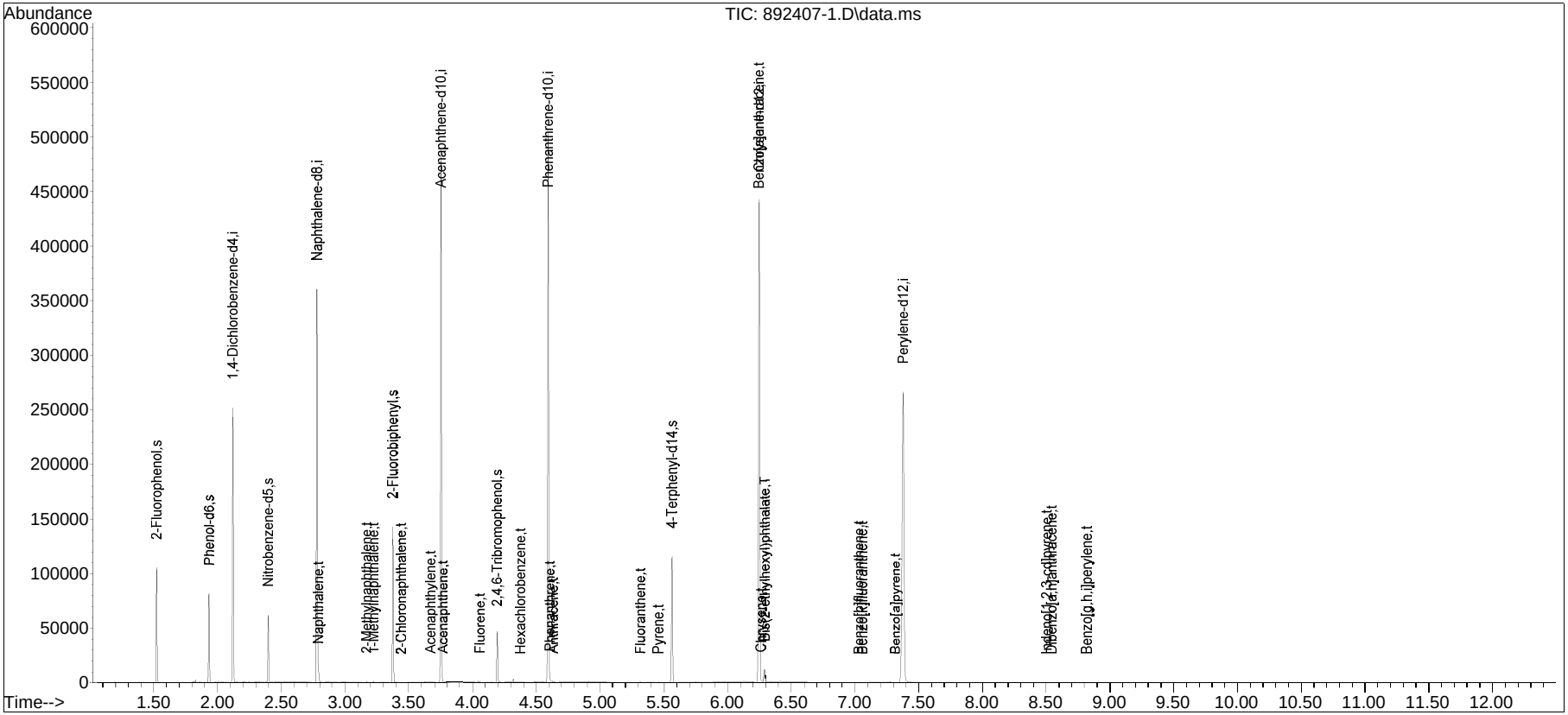
(#) = qualifier out of range (m) = manual integration (+) = signals summed

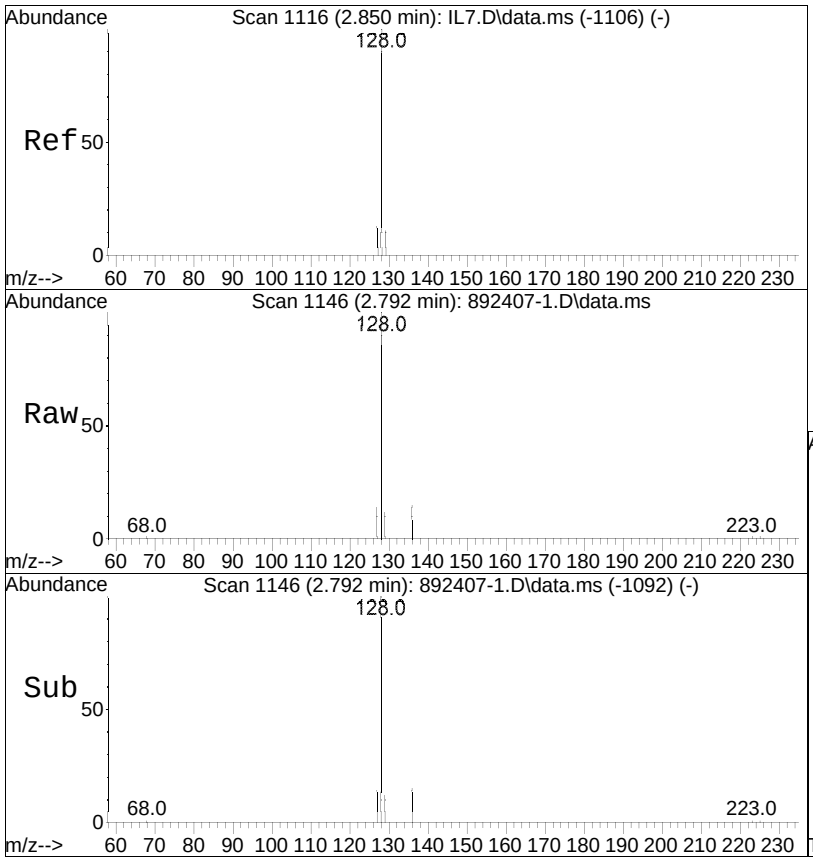
Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\240306LVI\
Data File : 892407-1.D
Acq On : 06 Mar 2024 07:43 am
Operator : sv119:jjw
Sample : WG1892407-1,32,,ah
Misc : WG1892736,WG1892407,ical20642
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 06 09:40:05 2024
Quant Method : I:\8270sim\sv119\240306LVI\SIM-LVI_231207n_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Mar 06 07:14:42 2024
Response via : Initial Calibration

Sub List : DEFAULT - All compounds listed\ccv0306.D•

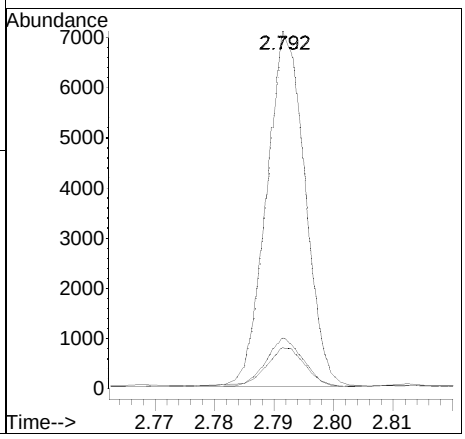


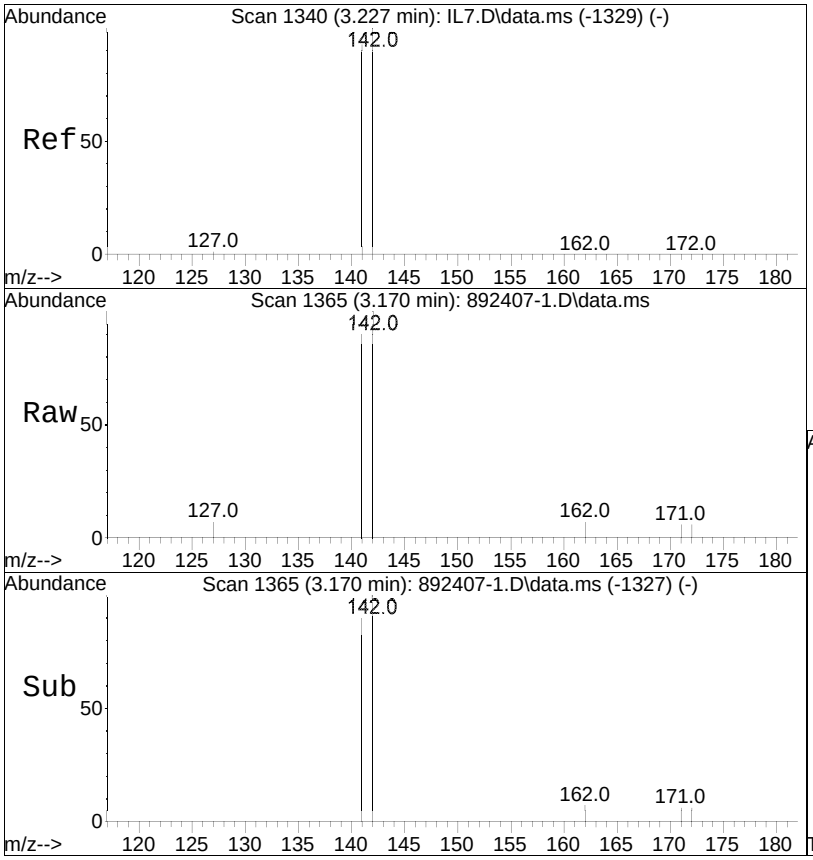


#9
Naphthalene
Concen: 83.02 ng/ml M4
RT: 2.792 min Scan# 1146
Delta R.T. -0.013 min
Lab File: 892407-1.D
Acq: 06 Mar 2024 07:43 am

Tgt Ion:128 Resp: 3139

Ion	Ratio	Lower	Upper
128	100		
129	11.3	8.8	13.2
127	13.1	10.6	15.8

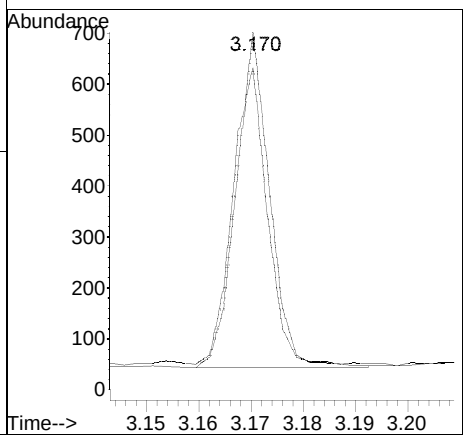


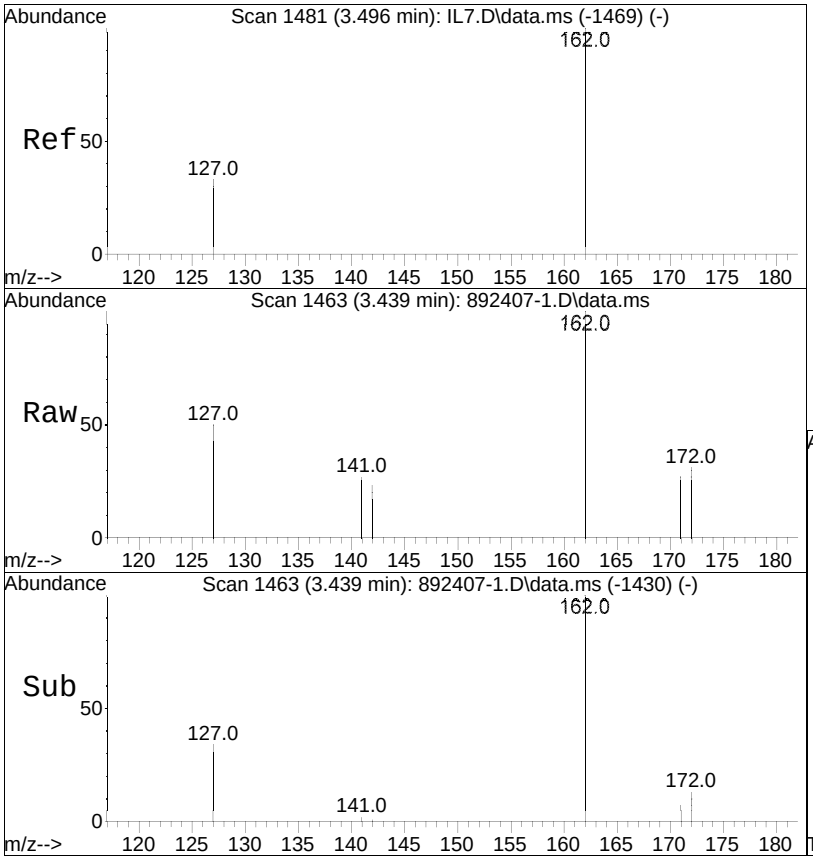


#11
2-Methylnaphthalene
Concen: 10.30 ng/ml
RT: 3.170 min Scan# 1365
Delta R.T. -0.012 min
Lab File: 892407-1.D
Acq: 06 Mar 2024 07:43 am

Tgt Ion:142 Resp: 288

Ion	Ratio	Lower	Upper
142	100		
141	93.1	74.1	111.1

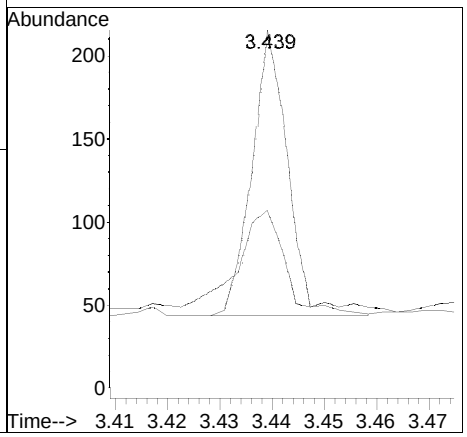


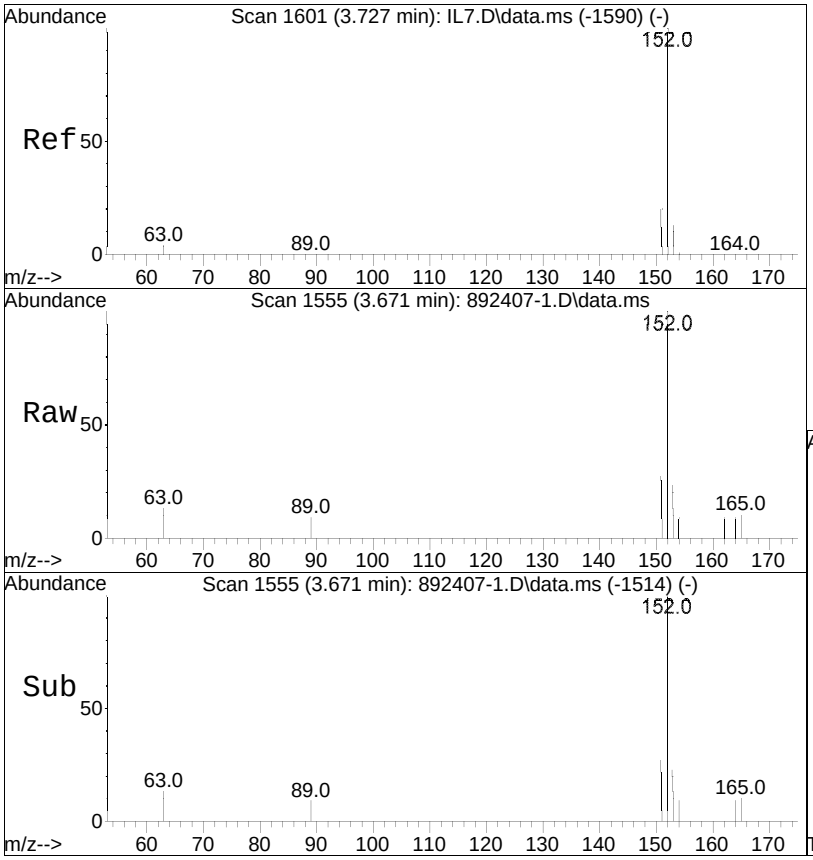


#14
2-Chloronaphthalene
Concen: 2.69 ng/ml
RT: 3.439 min Scan# 1463
Delta R.T. -0.010 min
Lab File: 892407-1.D
Acq: 06 Mar 2024 07:43 am

Tgt Ion:162 Resp: 80

Ion	Ratio	Lower	Upper
162	100		
127	42.5	29.7	44.5

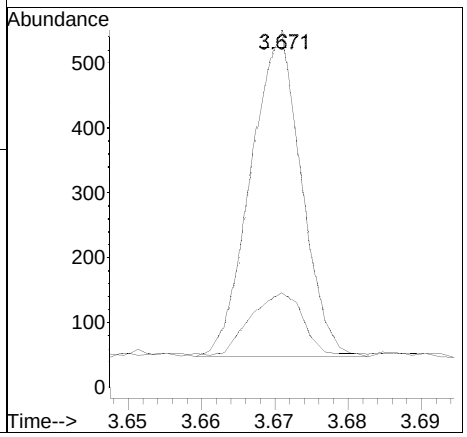


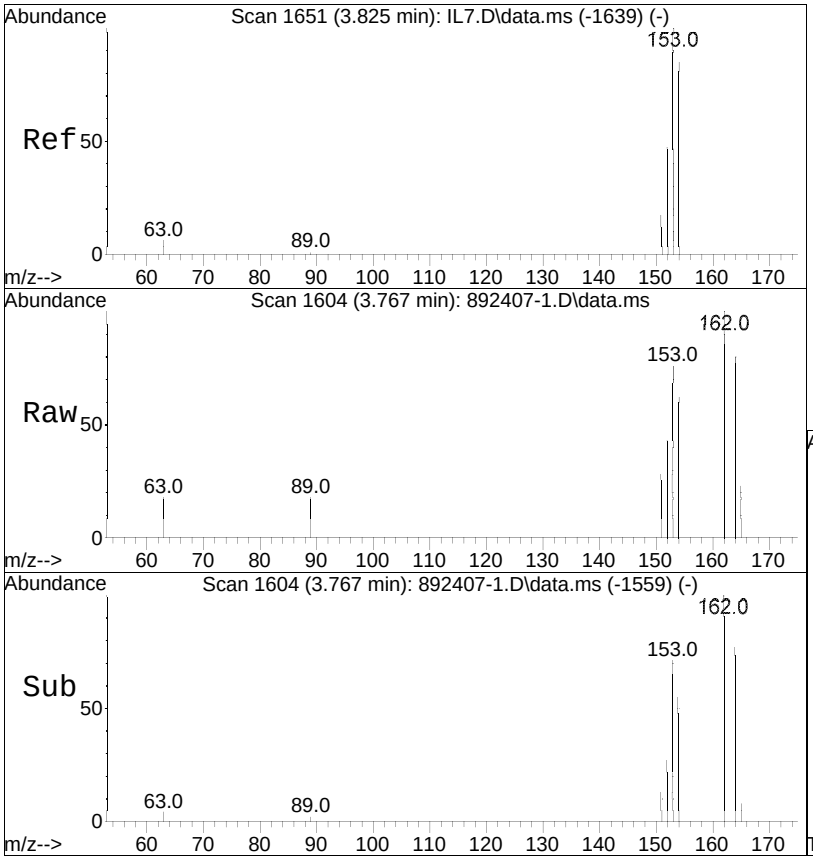


#16
Acenaphthylene
Concen: 5.42 ng/ml
RT: 3.671 min Scan# 1555
Delta R.T. -0.009 min
Lab File: 892407-1.D
Acq: 06 Mar 2024 07:43 am

Tgt Ion:152 Resp: 240

Ion	Ratio	Lower	Upper
152	100		
151	21.3	16.0	24.0

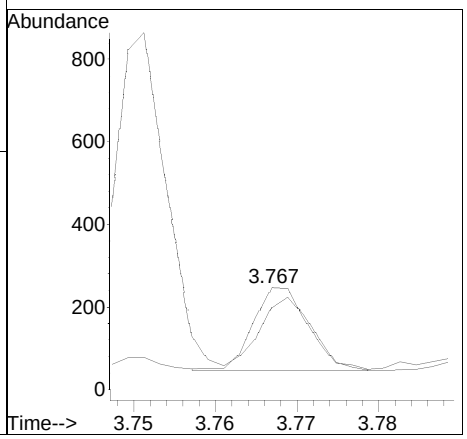


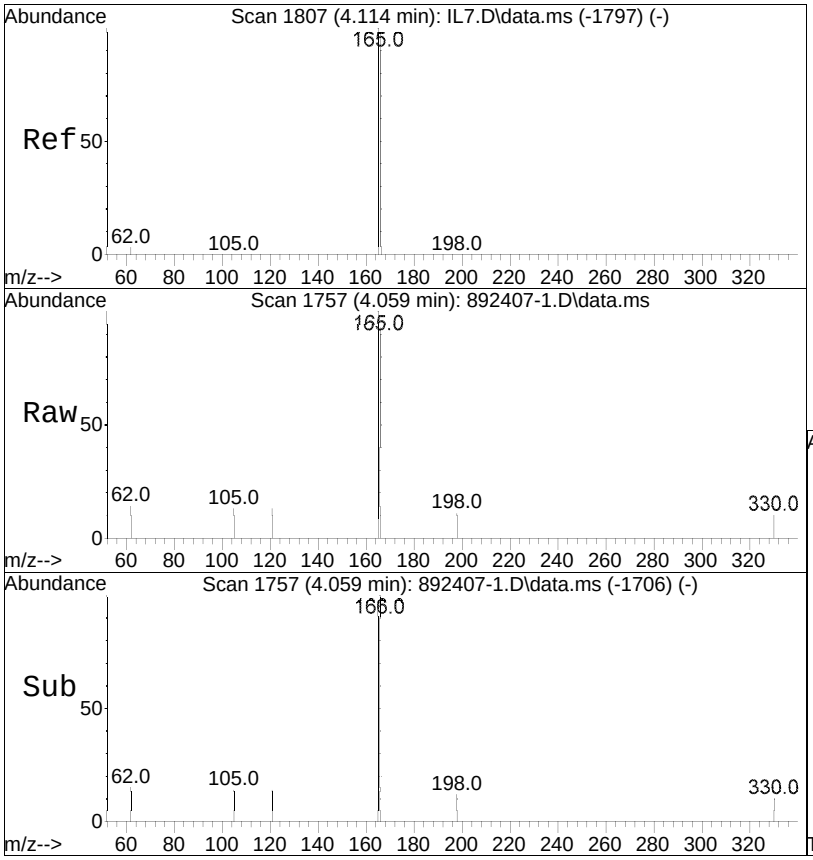


#18
Acenaphthene
Concen: 2.98 ng/ml M6
RT: 3.767 min Scan# 1604
Delta R.T. -0.011 min
Lab File: 892407-1.D
Acq: 06 Mar 2024 07:43 am

Tgt Ion:153 Resp: 93

Ion	Ratio	Lower	Upper
153	100		
154	84.9	66.9	100.3

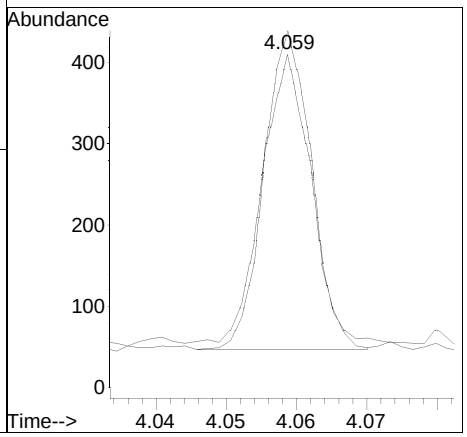


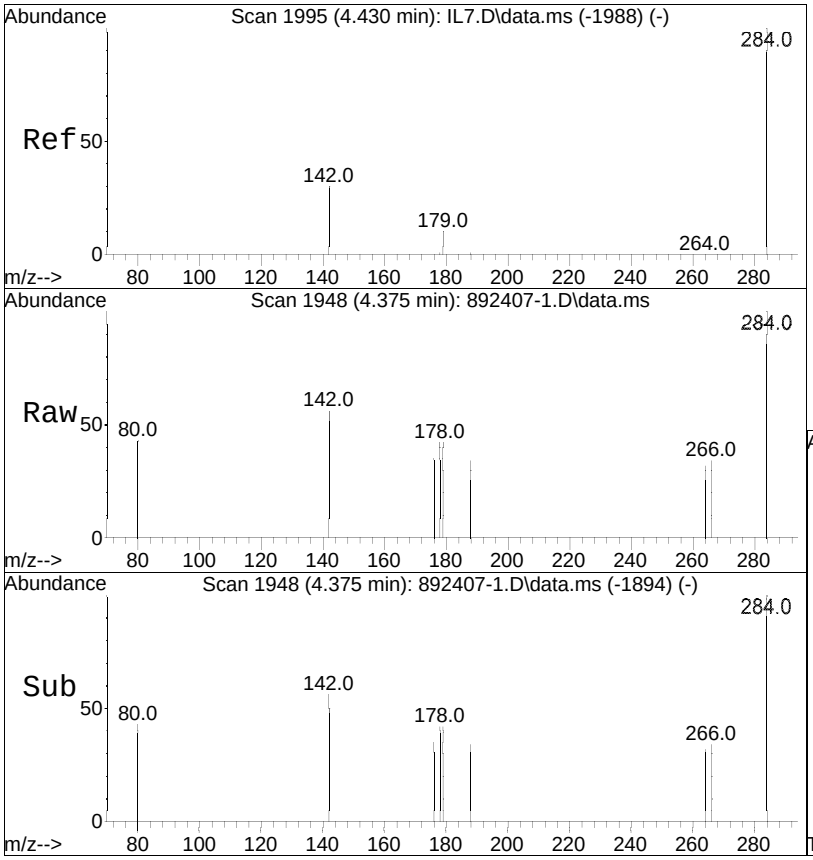


#20
Fluorene
Concen: 4.56 ng/ml M1
RT: 4.059 min Scan# 1757
Delta R.T. -0.008 min
Lab File: 892407-1.D
Acq: 06 Mar 2024 07:43 am

Tgt Ion:166 Resp: 170

Ion	Ratio	Lower	Upper
166	100		
165	107.6	82.9	124.3

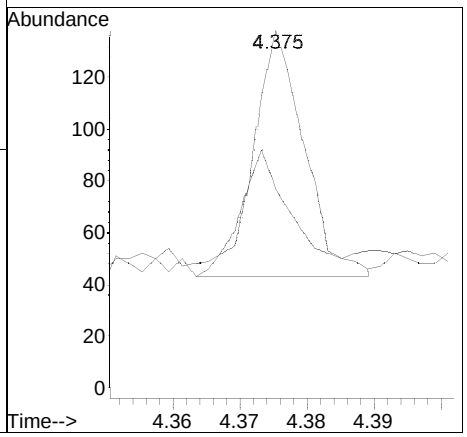


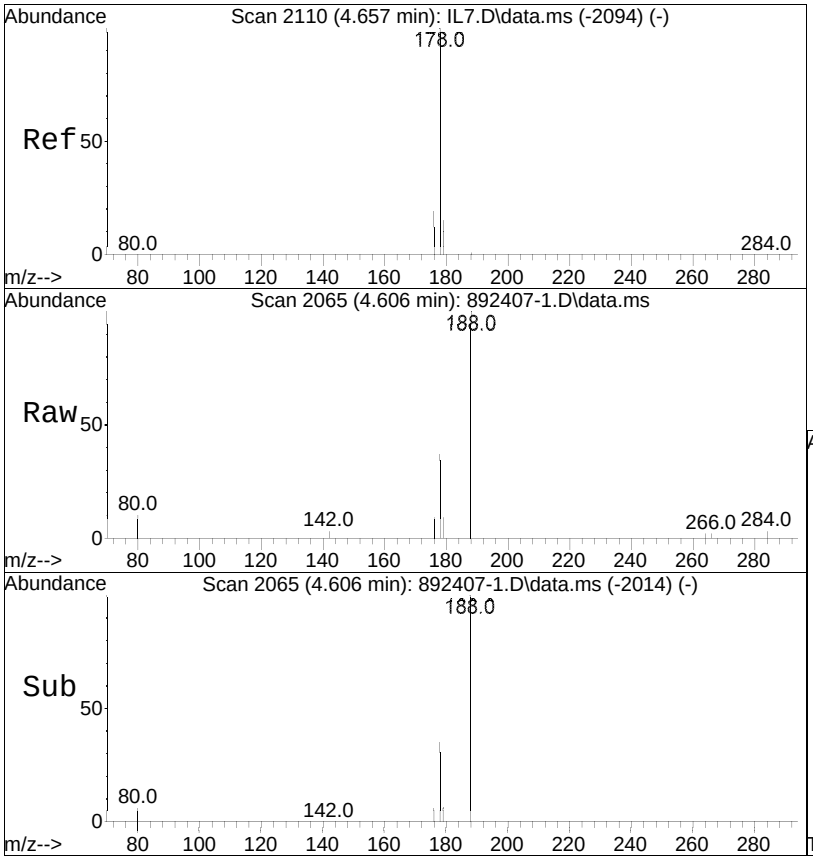


#24
Hexachlorobenzene
Concen: 3.39 ng/ml
RT: 4.375 min Scan# 1948
Delta R.T. -0.005 min
Lab File: 892407-1.D
Acq: 06 Mar 2024 07:43 am

Tgt Ion:284 Resp: 50

Ion	Ratio	Lower	Upper
284	100		
142	36.0	26.9	40.3

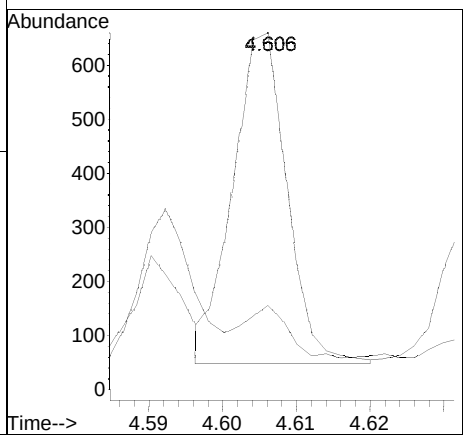


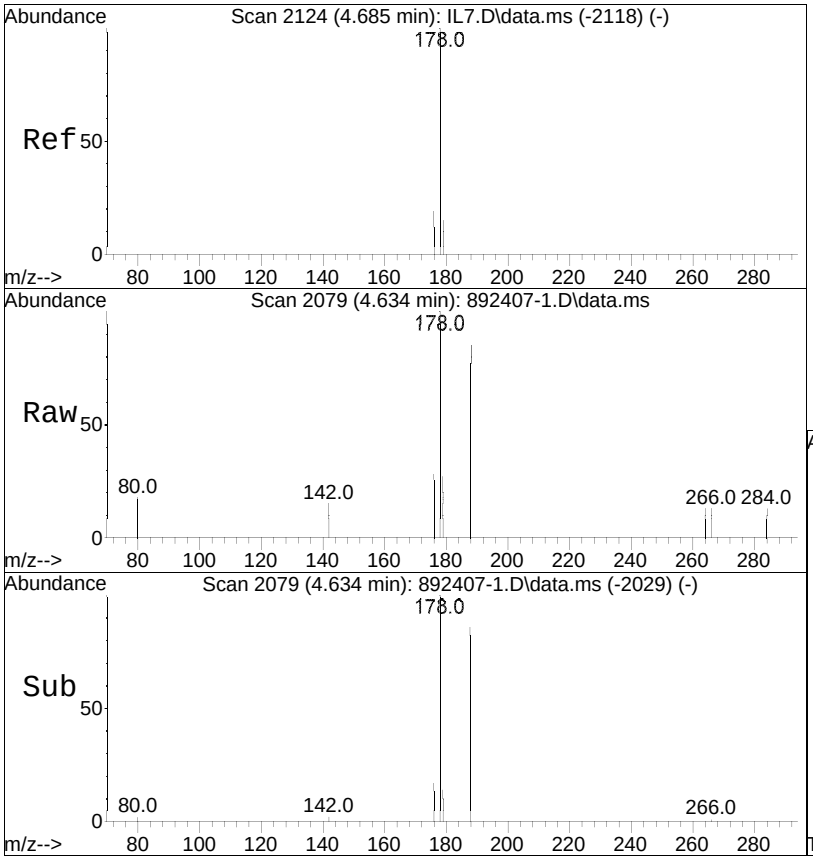


#26
Phenanthrene
Concen: 5.35 ng/ml M4
RT: 4.606 min Scan# 2065
Delta R.T. 0.001 min
Lab File: 892407-1.D
Acq: 06 Mar 2024 07:43 am

Tgt Ion:178 Resp: 310

Ion	Ratio	Lower	Upper
178	100		
179	13.9	12.3	18.5

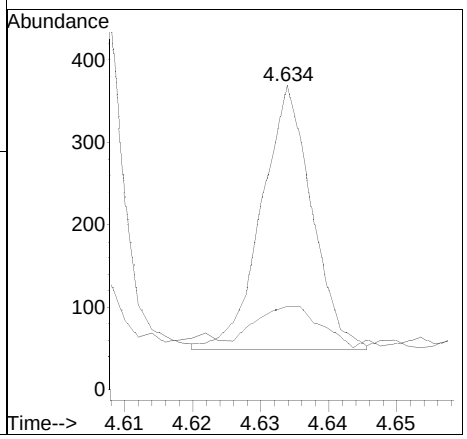


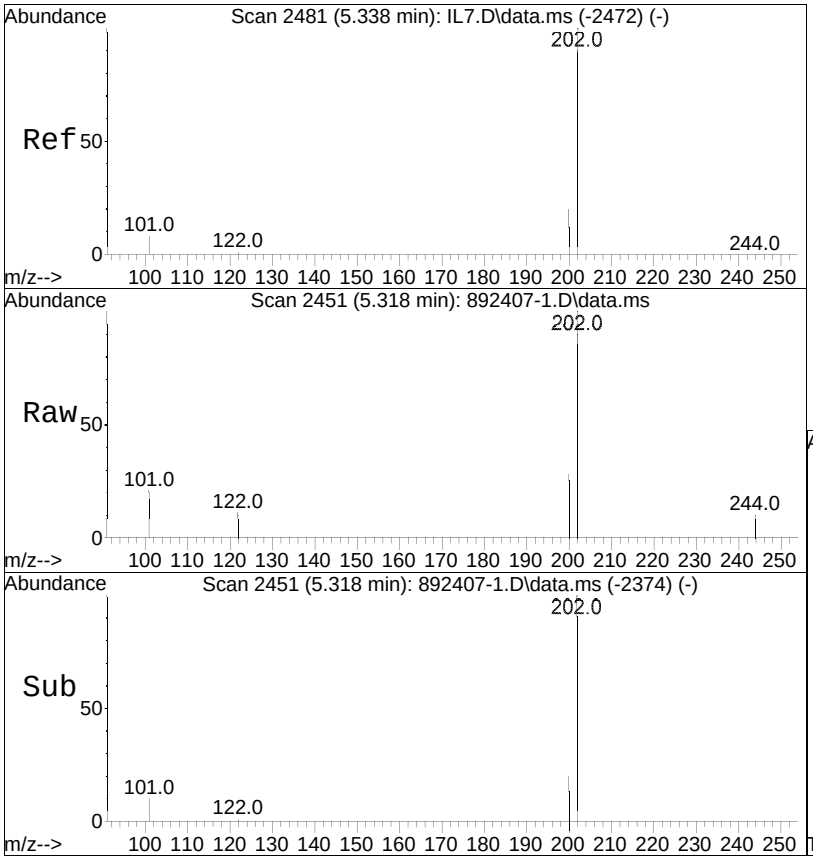


#27
Anthracene
Concen: 2.85 ng/ml M4
RT: 4.634 min Scan# 2079
Delta R.T. -0.001 min
Lab File: 892407-1.D
Acq: 06 Mar 2024 07:43 am

Tgt Ion:178 Resp: 164

Ion	Ratio	Lower	Upper
178	100		
179	19.5	12.2	18.4#

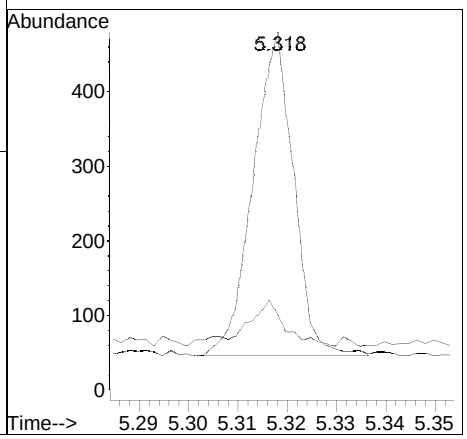


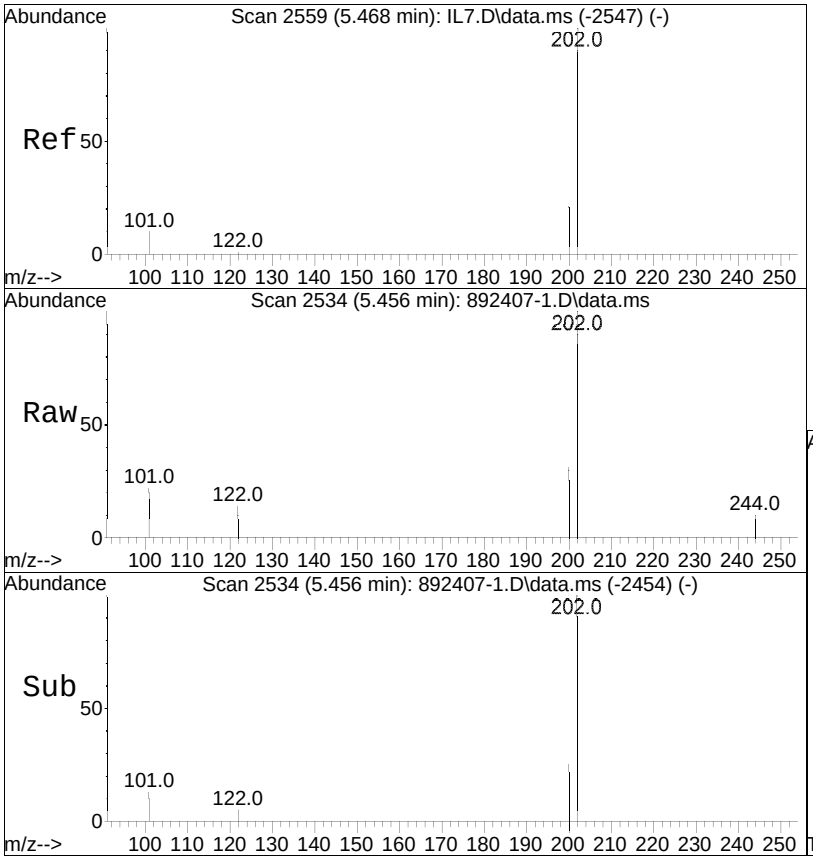


#28
Fluoranthene
Concen: 3.21 ng/ml
RT: 5.318 min Scan# 2451
Delta R.T. 0.027 min
Lab File: 892407-1.D
Acq: 06 Mar 2024 07:43 am

Tgt Ion:202 Resp: 245

Ion	Ratio	Lower	Upper
202	100		
101	13.9	8.3	12.5#

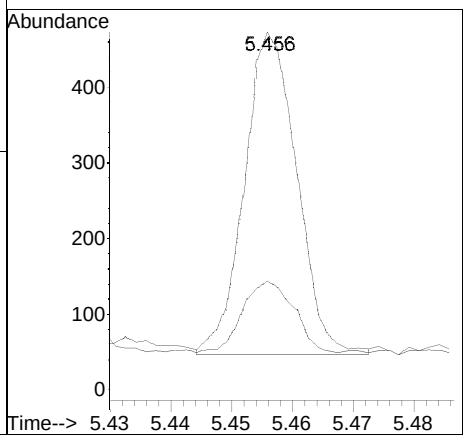


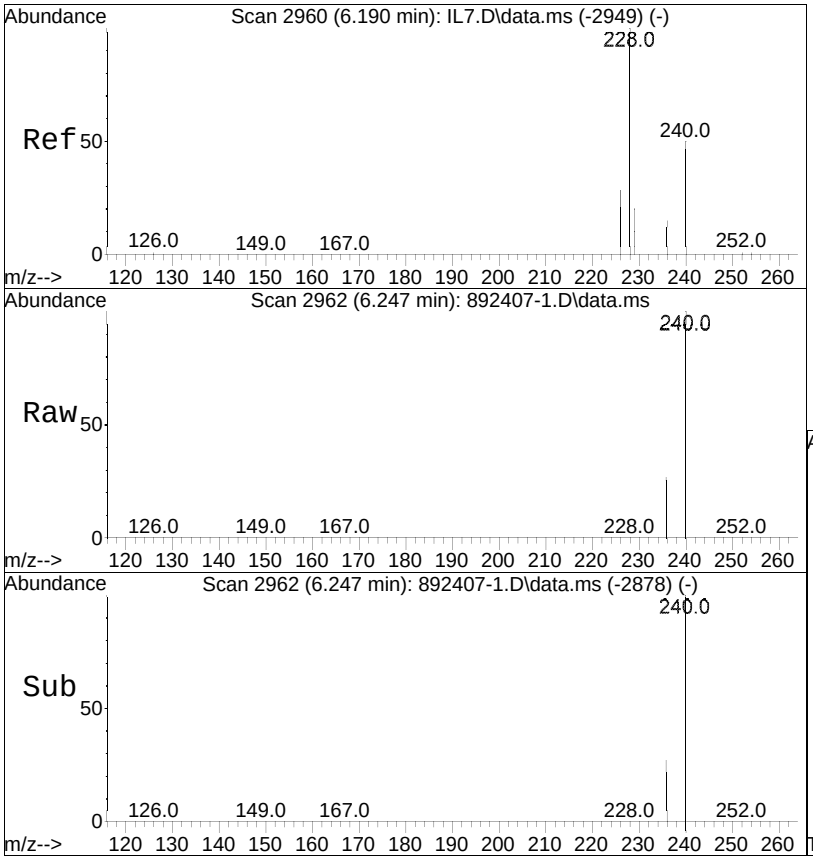


#29
Pyrene
Concen: 3.22 ng/ml M3
RT: 5.456 min Scan# 2534
Delta R.T. 0.032 min
Lab File: 892407-1.D
Acq: 06 Mar 2024 07:43 am

Tgt Ion:202 Resp: 253

Ion	Ratio	Lower	Upper
202	100		
200	23.7	17.3	25.9

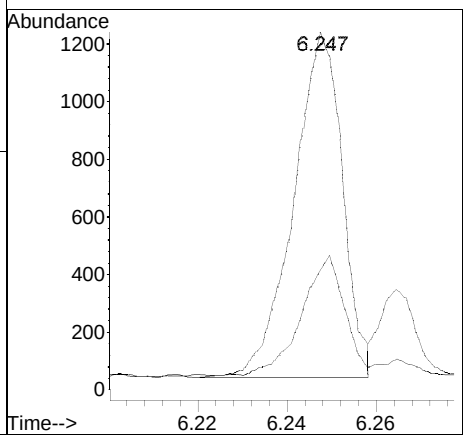


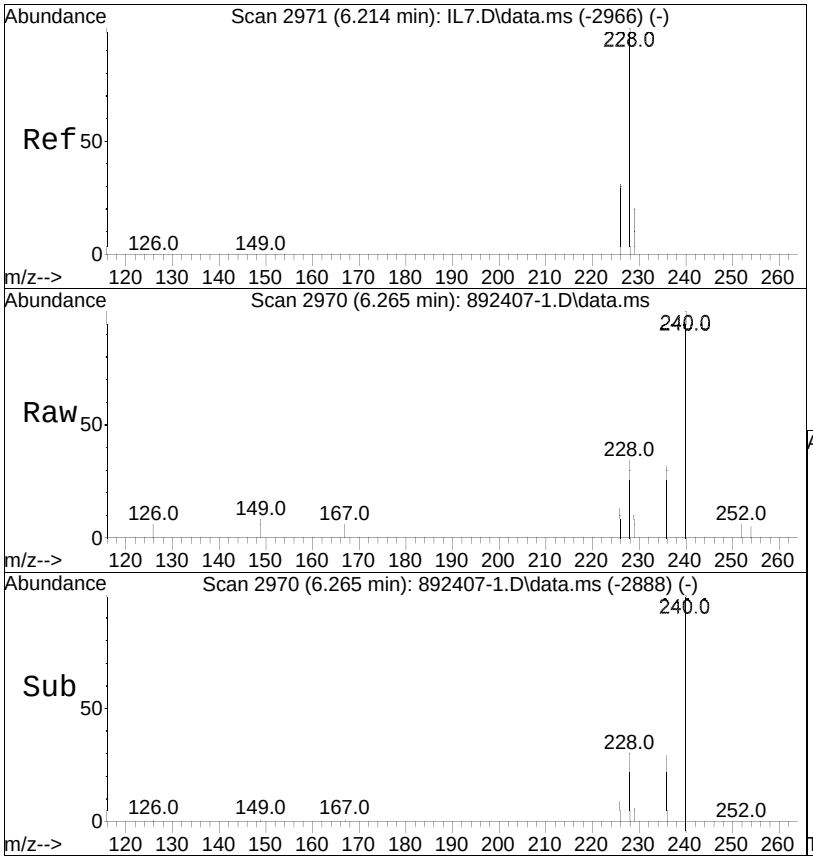


#32
Benzo[a]anthracene
Concen: 2.28 ng/ml
RT: 6.247 min Scan# 2962
Delta R.T. 0.080 min
Lab File: 892407-1.D
Acq: 06 Mar 2024 07:43 am

Tgt Ion:228 Resp: 901

Ion	Ratio	Lower	Upper
228	100		
229	32.2	15.6	23.4#

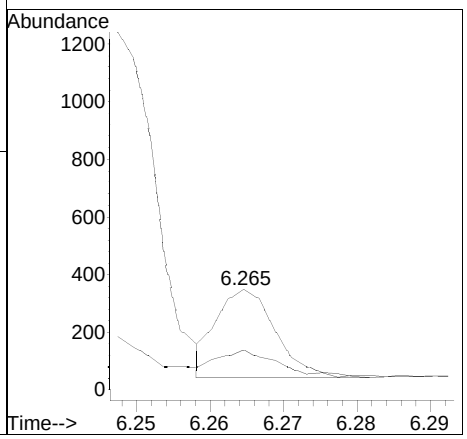


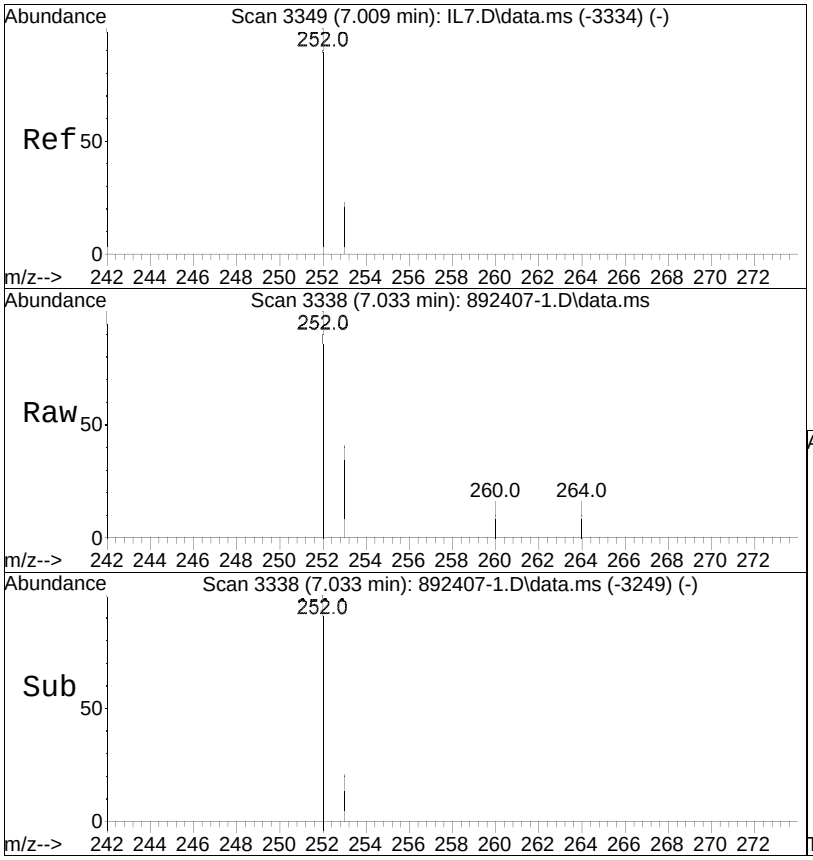


#34
Chrysene
Concen: 2.44 ng/ml M4
RT: 6.265 min Scan# 2970
Delta R.T. 0.076 min
Lab File: 892407-1.D
Acq: 06 Mar 2024 07:43 am

Tgt Ion:228 Resp: 168

Ion	Ratio	Lower	Upper
228	100		
226	30.4	24.5	36.7

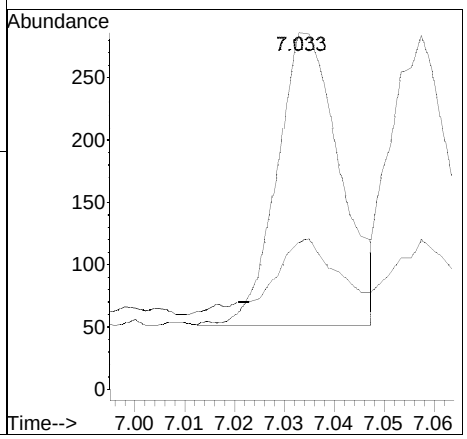


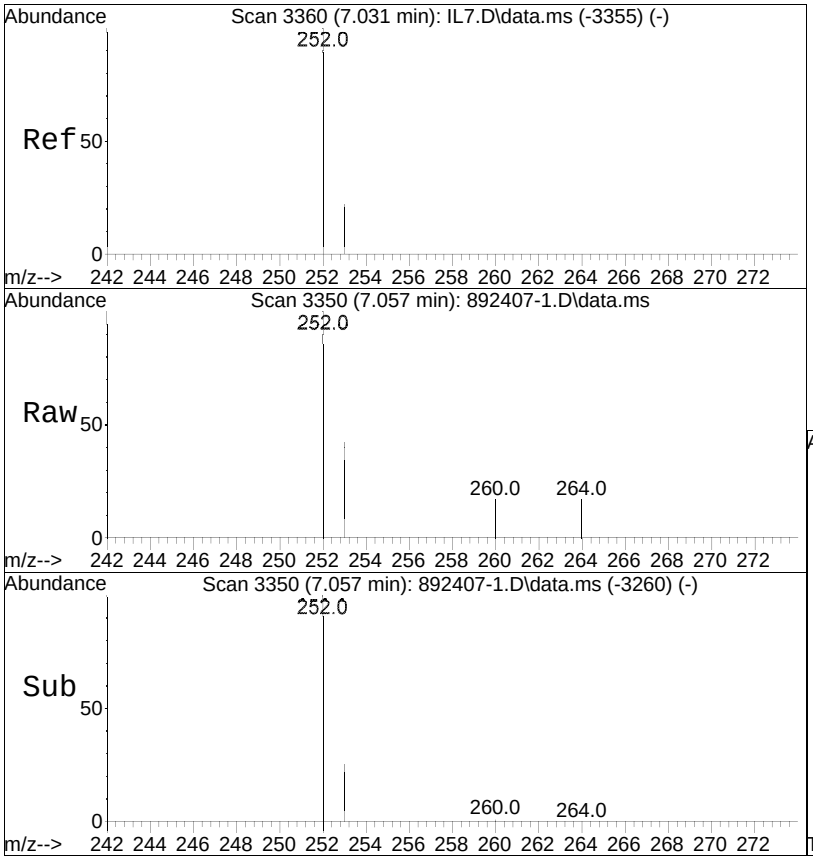


#37
Benzo[b]fluoranthene
Concen: 2.88 ng/ml M4
RT: 7.033 min Scan# 3338
Delta R.T. 0.082 min
Lab File: 892407-1.D
Acq: 06 Mar 2024 07:43 am

Tgt Ion:252 Resp: 207

Ion	Ratio	Lower	Upper
252	100		
253	26.1	17.3	25.9#

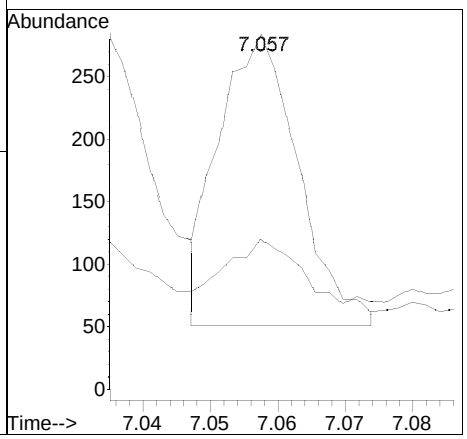


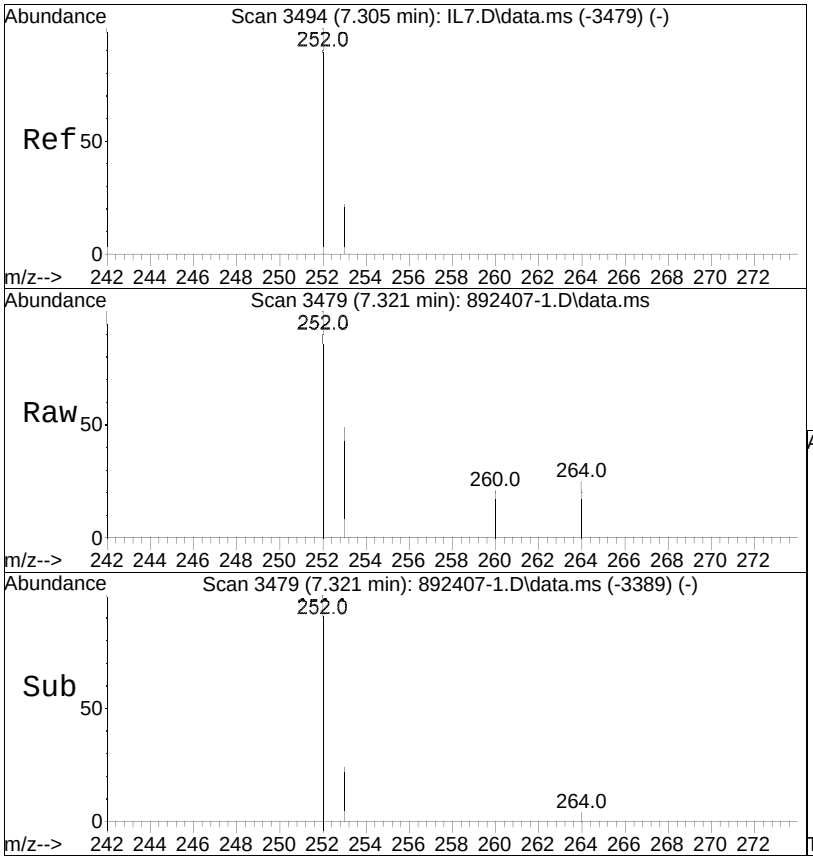


#38
Benzo[k]fluoranthene
Concen: 2.78 ng/ml M4
RT: 7.057 min Scan# 3350
Delta R.T. 0.084 min
Lab File: 892407-1.D
Acq: 06 Mar 2024 07:43 am

Tgt Ion:252 Resp: 190

Ion	Ratio	Lower	Upper
252	100		
253	24.2	17.4	26.2

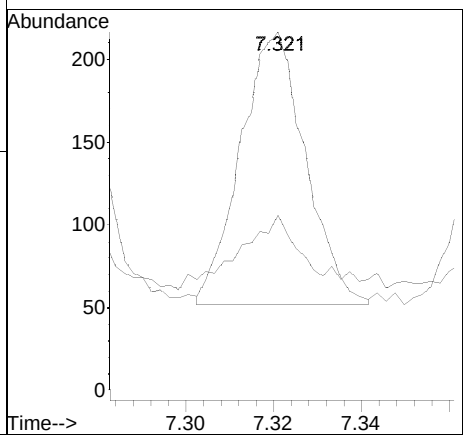


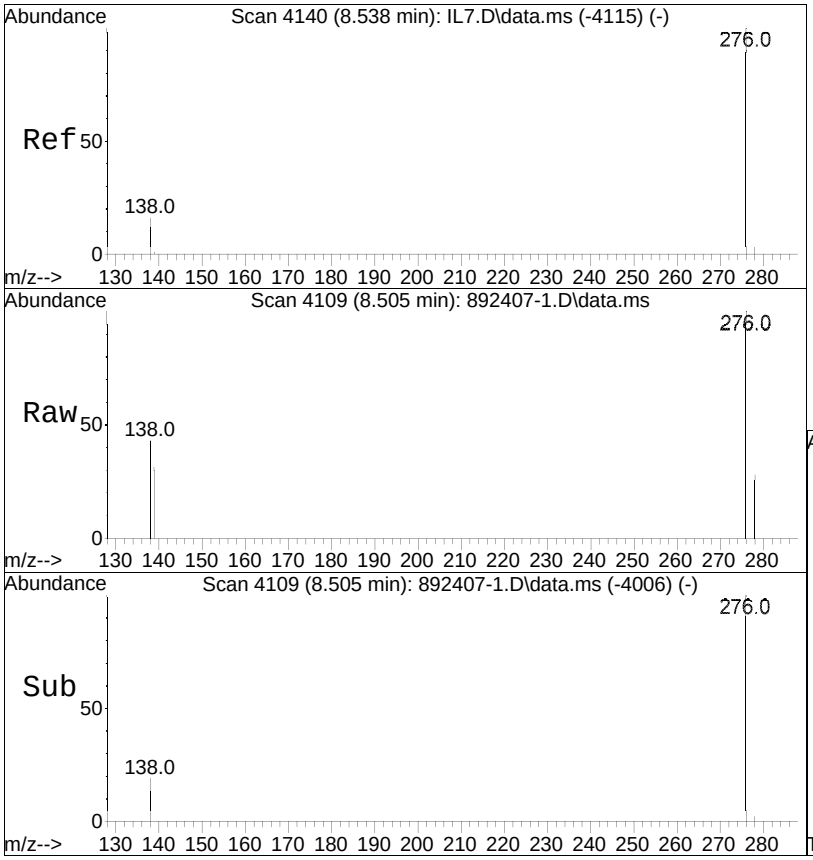


#39
Benzo[a]pyrene
Concen: 2.65 ng/ml M4
RT: 7.321 min Scan# 3479
Delta R.T. 0.084 min
Lab File: 892407-1.D
Acq: 06 Mar 2024 07:43 am

Tgt Ion:252 Resp: 168

Ion	Ratio	Lower	Upper
252	100		
253	24.4	17.4	26.0

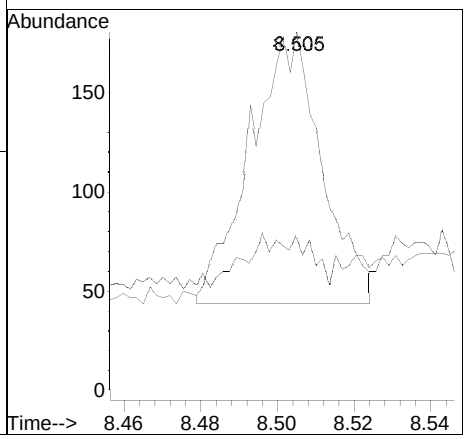


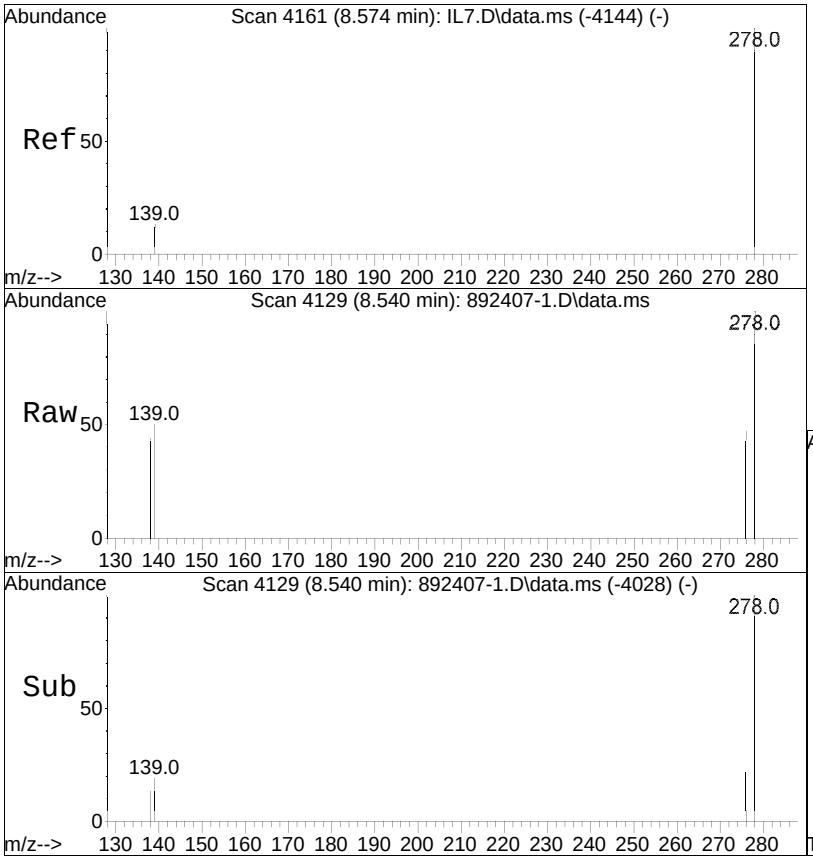


#40
Indeno[1,2,3-cd]pyrene
Concen: 2.56 ng/ml M3
RT: 8.505 min Scan# 4109
Delta R.T. 0.078 min
Lab File: 892407-1.D
Acq: 06 Mar 2024 07:43 am

Tgt Ion:276 Resp: 176

Ion	Ratio	Lower	Upper
276	100		
138	18.2	14.8	22.2

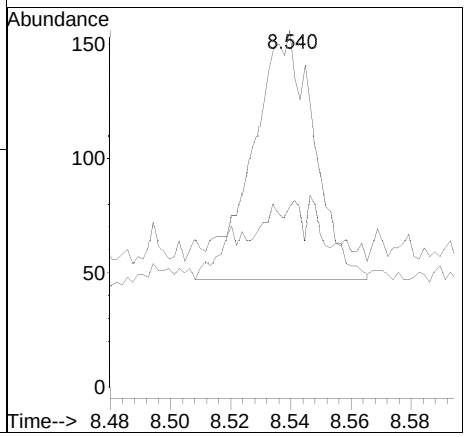


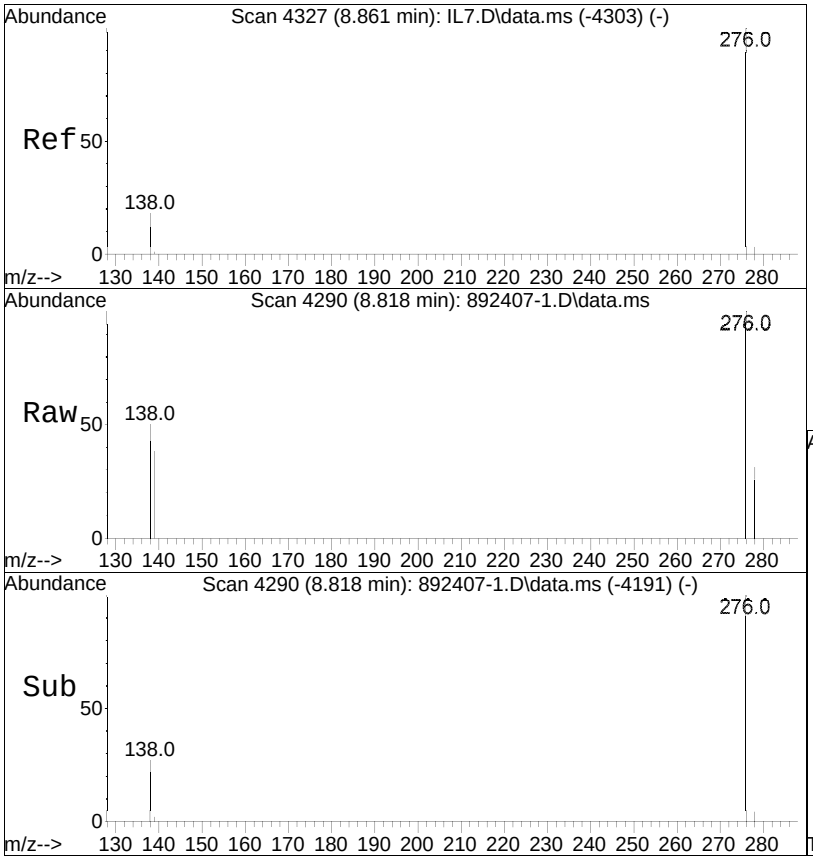


#41
Dibenzo[a,h]anthracene
Concen: 2.37 ng/ml M6
RT: 8.540 min Scan# 4129
Delta R.T. 0.075 min
Lab File: 892407-1.D
Acq: 06 Mar 2024 07:43 am

Tgt Ion:278 Resp: 152

Ion	Ratio	Lower	Upper
278	100		
139	16.4	12.2	18.4

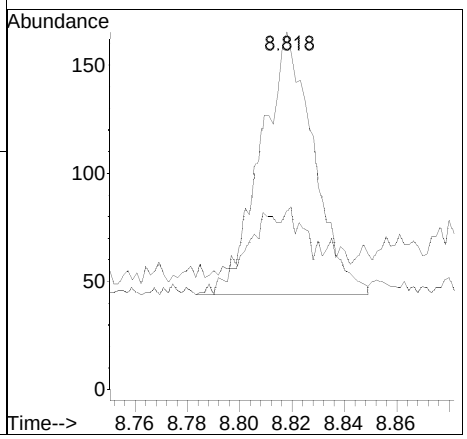




#42
Benzo[g,h,i]perylene
Concen: 2.43 ng/ml M7
RT: 8.818 min Scan# 4290
Delta R.T. 0.071 min
Lab File: 892407-1.D
Acq: 06 Mar 2024 07:43 am

Tgt Ion:276 Resp: 170

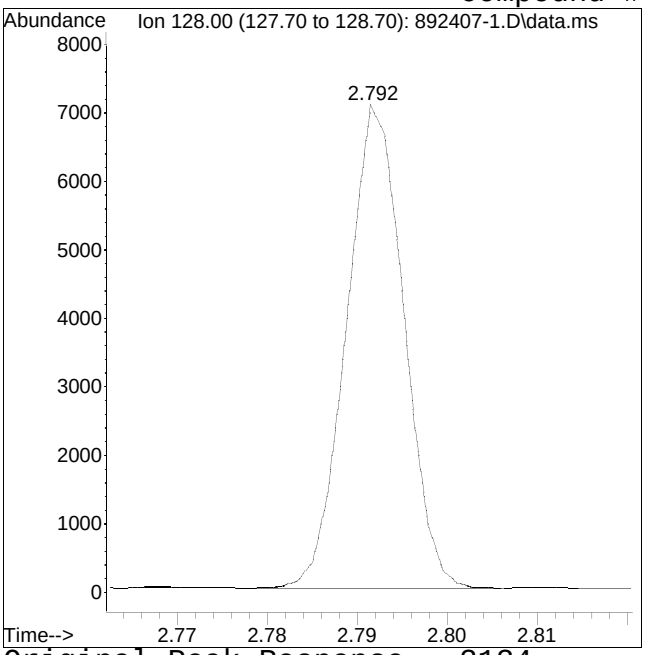
Ion	Ratio	Lower	Upper
276	100		
138	18.8	16.8	25.2



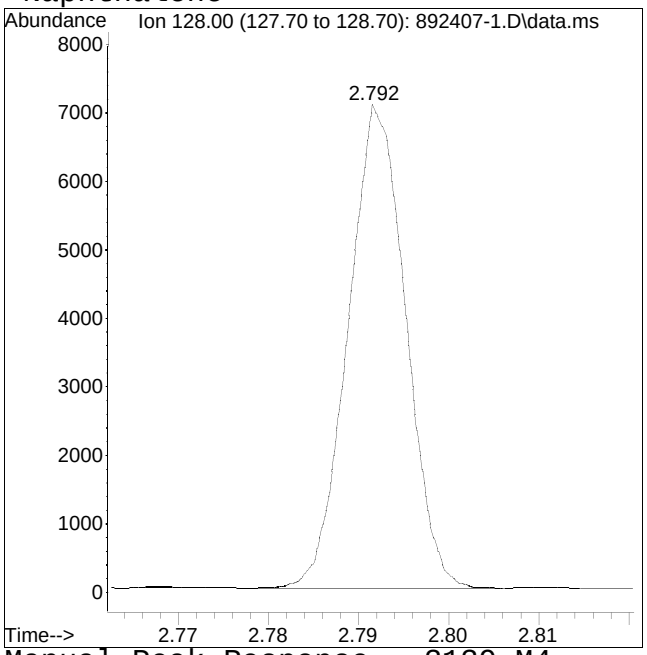
Manual Integration Report

Data Path : I:\8270SIM\sv119\240306LVIQMethod : SIM-LVI_231207n_sv119.M
Data File : 892407-1.D Operator : sv119:jjw
Date Inj'd : 3/6/2024 7:43 am Instrument : SV119
Sample : WG1892407-1,32,,ah Quant Date : 3/6/2024 7:59 am

Compound #9: Naphthalene



Original Peak Response = 3134



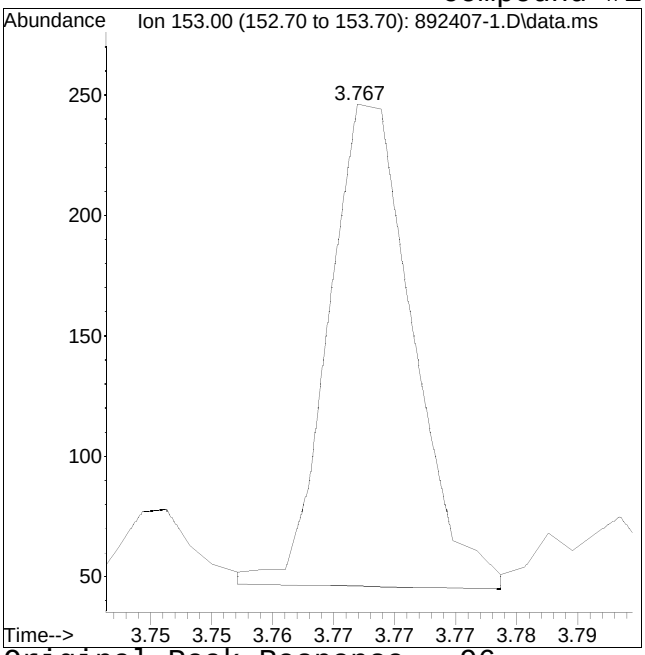
Manual Peak Response = 3139 M4

M4 = Poor automated baseline construction.

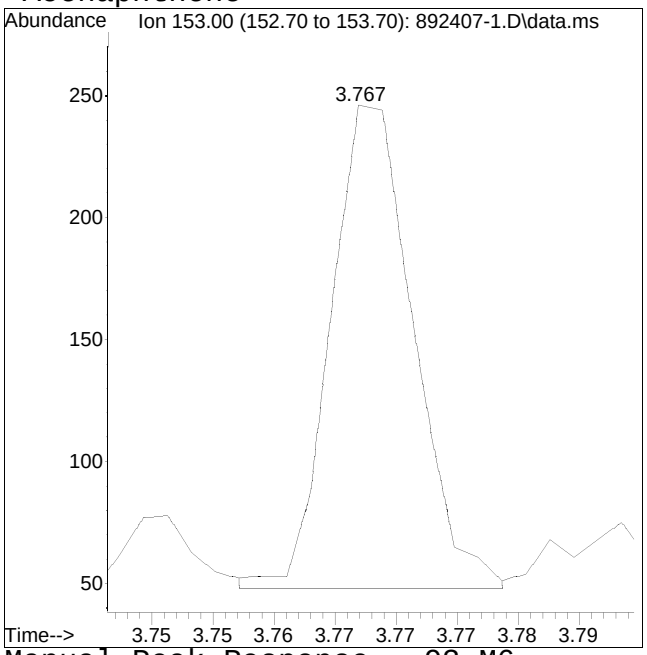
Manual Integration Report

Data Path : I:\8270SIM\sv119\240306LVIQMethod : SIM-LVI_231207n_sv119.M
Data File : 892407-1.D Operator : sv119:jjw
Date Inj'd : 3/6/2024 7:43 am Instrument : SV119
Sample : WG1892407-1,32,,ah Quant Date : 3/6/2024 7:59 am

Compound #18: Acenaphthene



Original Peak Response = 96



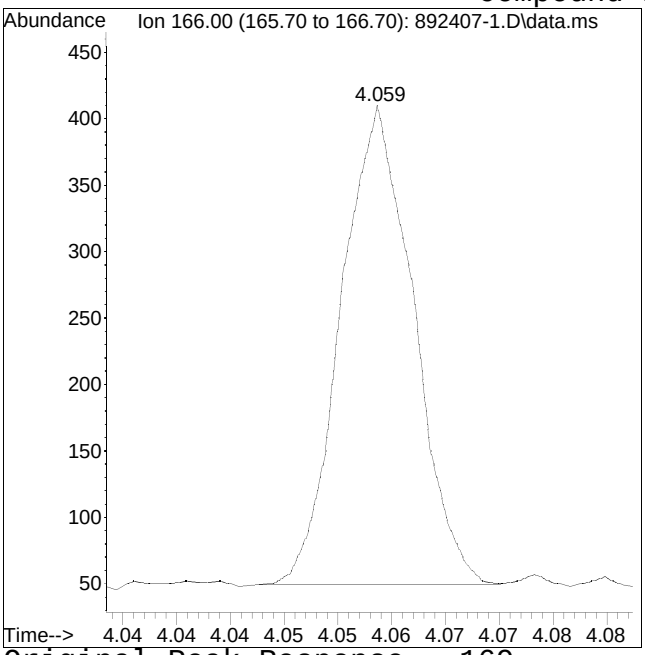
Manual Peak Response = 93 M6

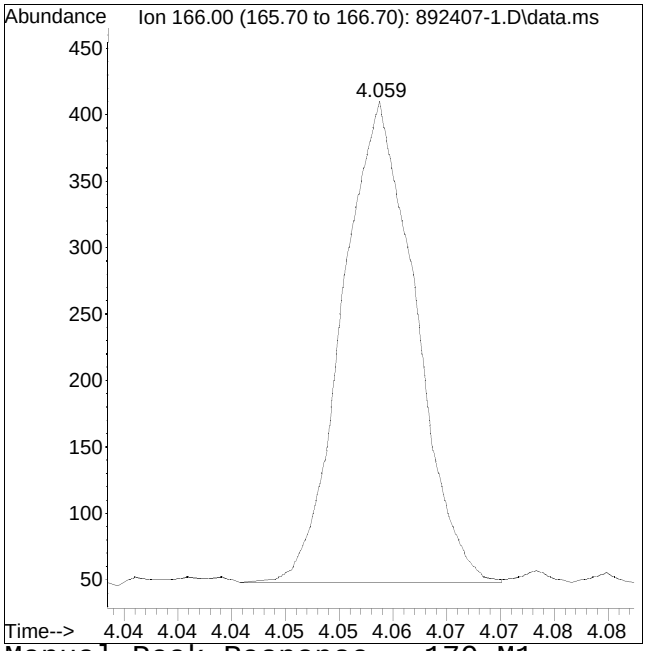
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

Data Path : I:\8270SIM\sv119\240306LVIQMethod : SIM-LVI_231207n_sv119.M
Data File : 892407-1.D Operator : sv119:jjw
Date Inj'd : 3/6/2024 7:43 am Instrument : SV119
Sample : WG1892407-1,32,,ah Quant Date : 3/6/2024 7:59 am

Compound #20: Fluorene



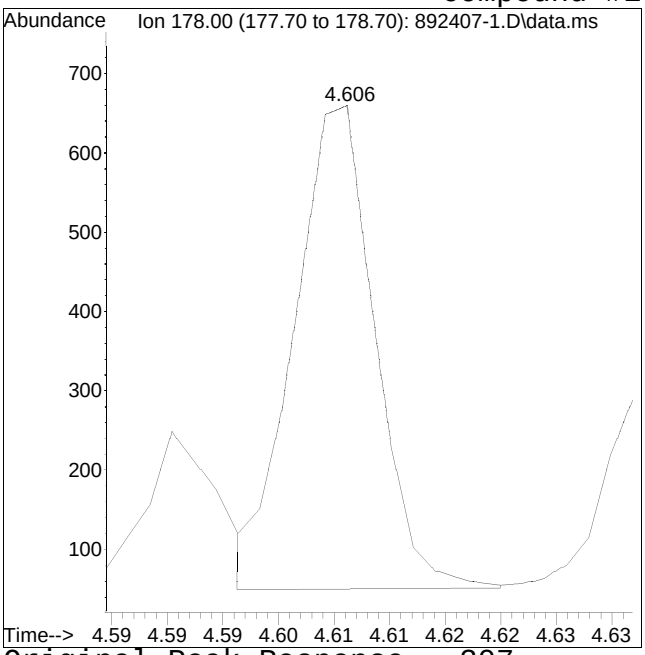


Original Peak Response = 169 Manual Peak Response = 170 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

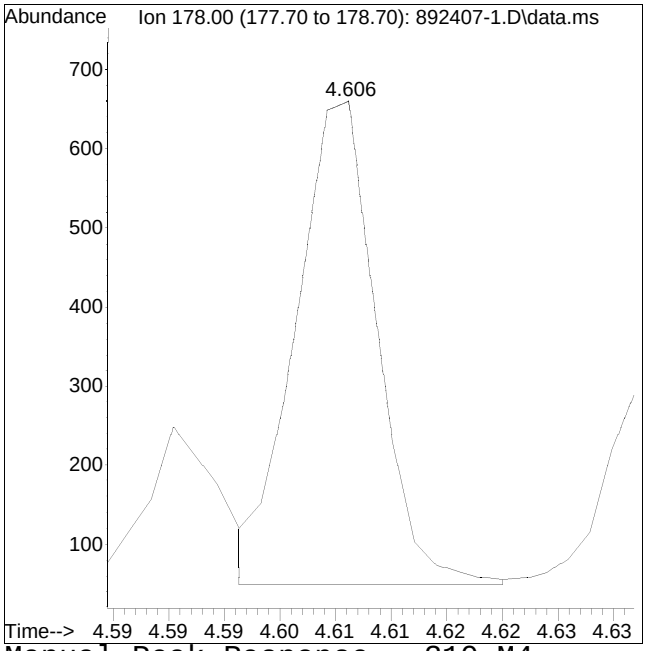
Manual Integration Report

Data Path : I:\8270SIM\sv119\240306LVIQMethod : SIM-LVI_231207n_sv119.M
Data File : 892407-1.D Operator : sv119:jjw
Date Inj'd : 3/6/2024 7:43 am Instrument : SV119
Sample : WG1892407-1,32,,ah Quant Date : 3/6/2024 7:59 am

Compound #26: Phenanthrene



Original Peak Response = 307



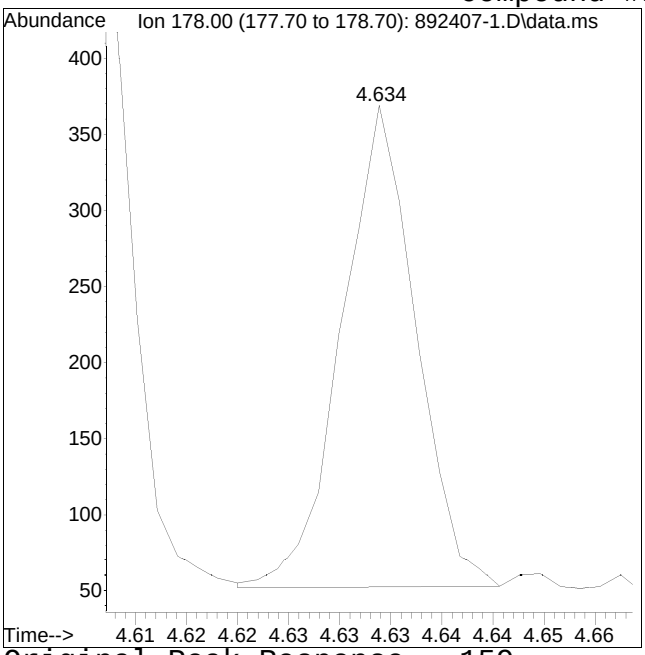
Manual Peak Response = 310 M4

M4 = Poor automated baseline construction.

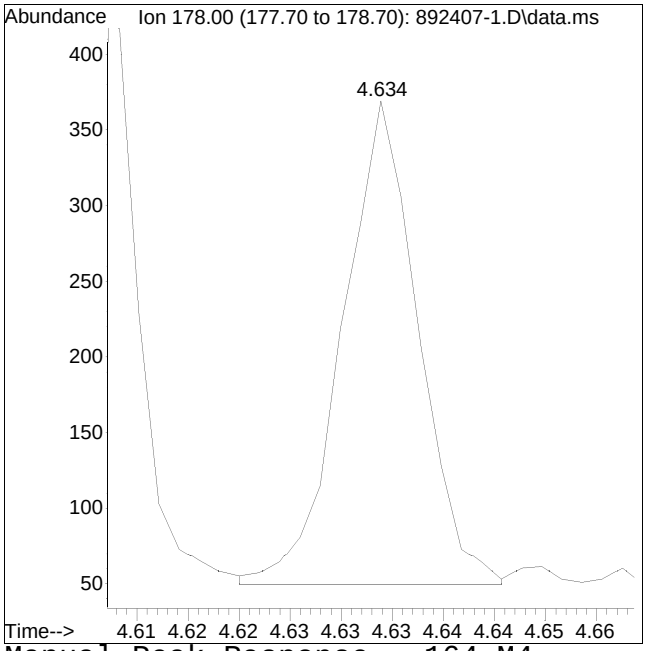
Manual Integration Report

Data Path : I:\8270SIM\sv119\240306LVIQMethod : SIM-LVI_231207n_sv119.M
Data File : 892407-1.D Operator : sv119:jjw
Date Inj'd : 3/6/2024 7:43 am Instrument : SV119
Sample : WG1892407-1,32,,ah Quant Date : 3/6/2024 7:59 am

Compound #27: Anthracene



Original Peak Response = 159



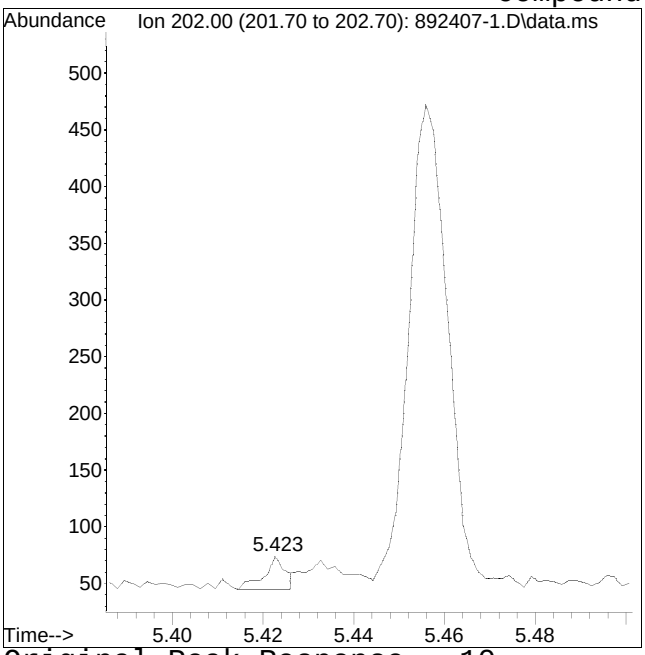
Manual Peak Response = 164 M4

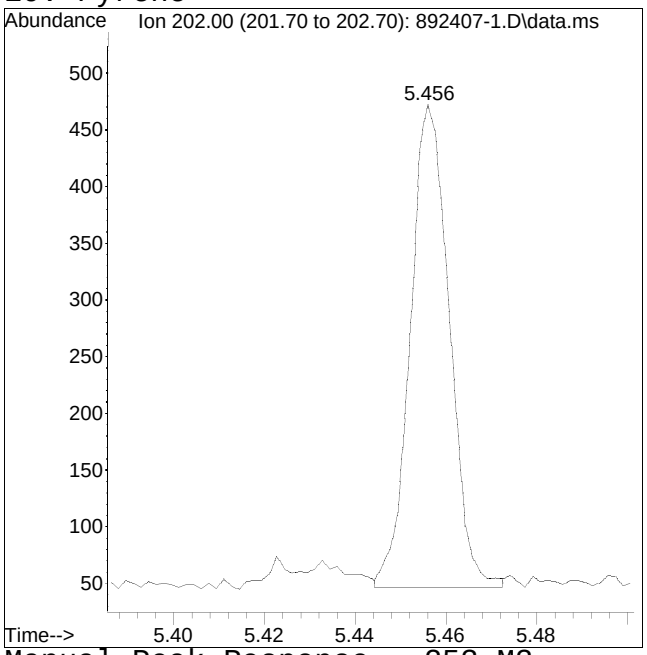
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\8270SIM\sv119\240306LVIQMethod : SIM-LVI_231207n_sv119.M
Data File : 892407-1.D Operator : sv119:jjw
Date Inj'd : 3/6/2024 7:43 am Instrument : SV119
Sample : WG1892407-1,32,,ah Quant Date : 3/6/2024 7:59 am

Compound #29: Pyrene





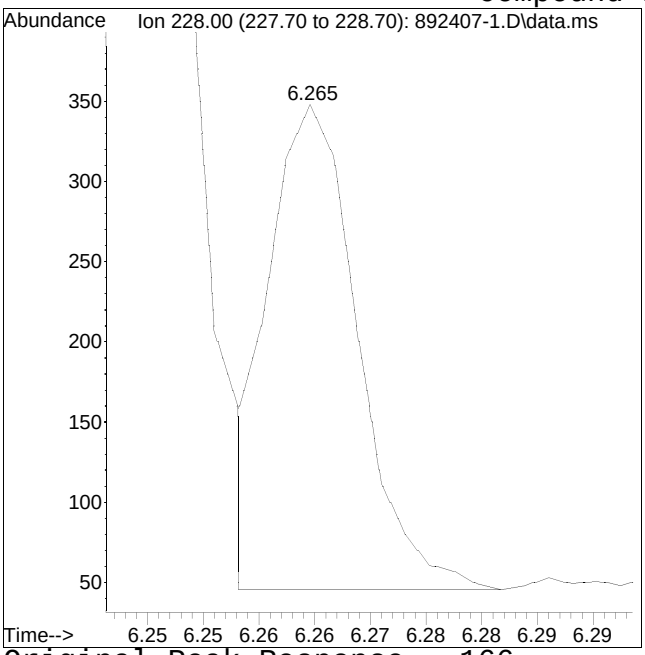
Original Peak Response = 10 Manual Peak Response = 253 M3

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

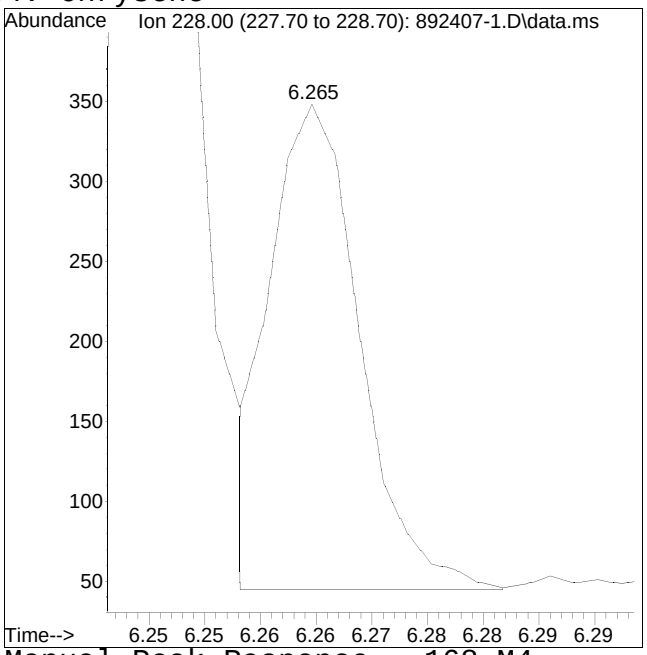
Manual Integration Report

Data Path : I:\8270SIM\sv119\240306LVIQMethod : SIM-LVI_231207n_sv119.M
Data File : 892407-1.D Operator : sv119:jjw
Date Inj'd : 3/6/2024 7:43 am Instrument : SV119
Sample : WG1892407-1,32,,ah Quant Date : 3/6/2024 7:59 am

Compound #34: Chrysene



Original Peak Response = 166



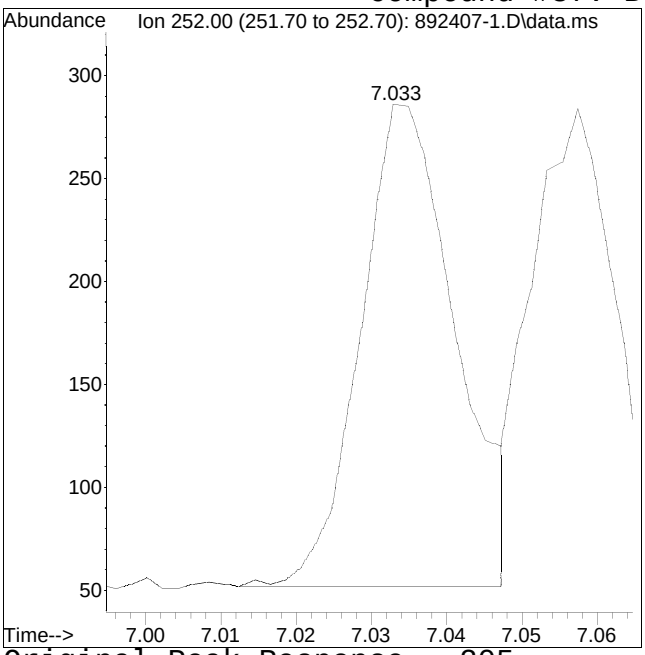
Manual Peak Response = 168 M4

M4 = Poor automated baseline construction.

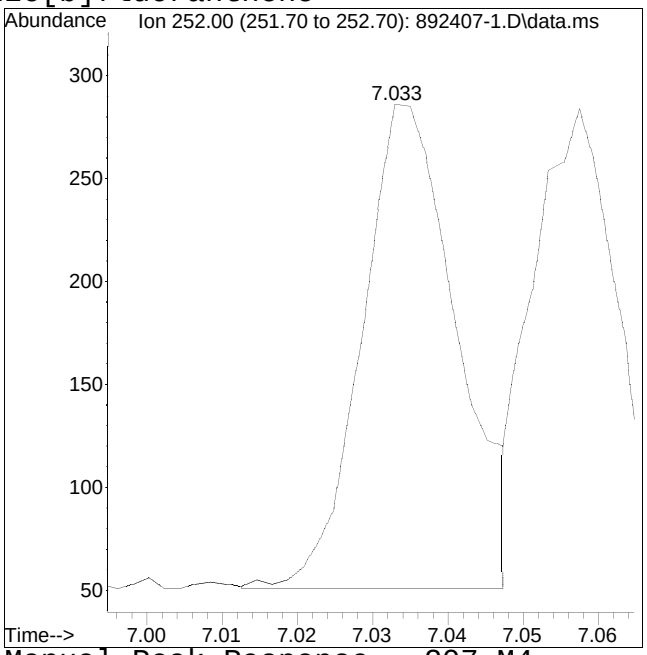
Manual Integration Report

Data Path : I:\8270SIM\sv119\240306LVIQMethod : SIM-LVI_231207n_sv119.M
Data File : 892407-1.D Operator : sv119:jjw
Date Inj'd : 3/6/2024 7:43 am Instrument : SV119
Sample : WG1892407-1,32,,ah Quant Date : 3/6/2024 7:59 am

Compound #37: Benzo[b]fluoranthene



Original Peak Response = 205



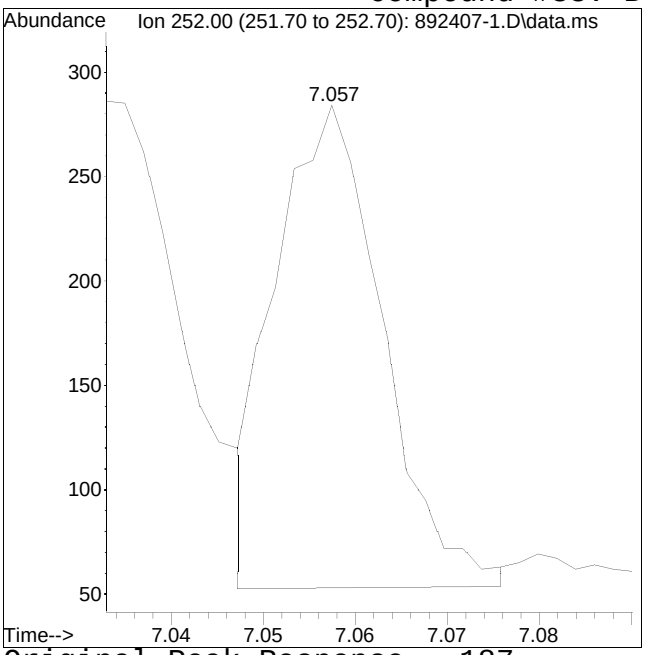
Manual Peak Response = 207 M4

M4 = Poor automated baseline construction.

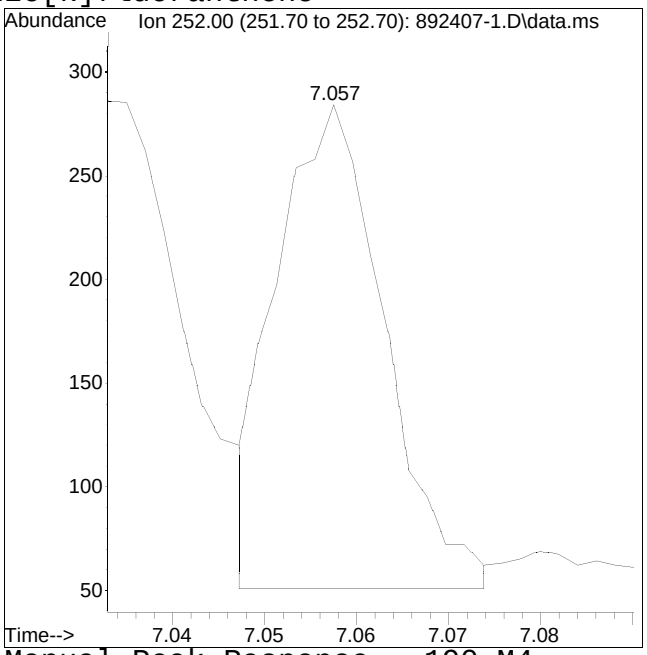
Manual Integration Report

Data Path : I:\8270SIM\sv119\240306LVIQMethod : SIM-LVI_231207n_sv119.M
Data File : 892407-1.D Operator : sv119:jjw
Date Inj'd : 3/6/2024 7:43 am Instrument : SV119
Sample : WG1892407-1,32,,ah Quant Date : 3/6/2024 7:59 am

Compound #38: Benzo[k]fluoranthene



Original Peak Response = 187



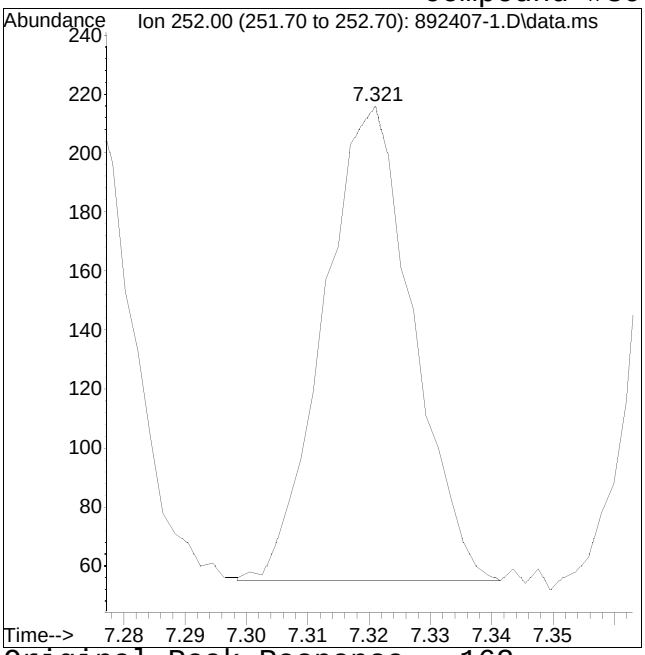
Manual Peak Response = 190 M4

M4 = Poor automated baseline construction.

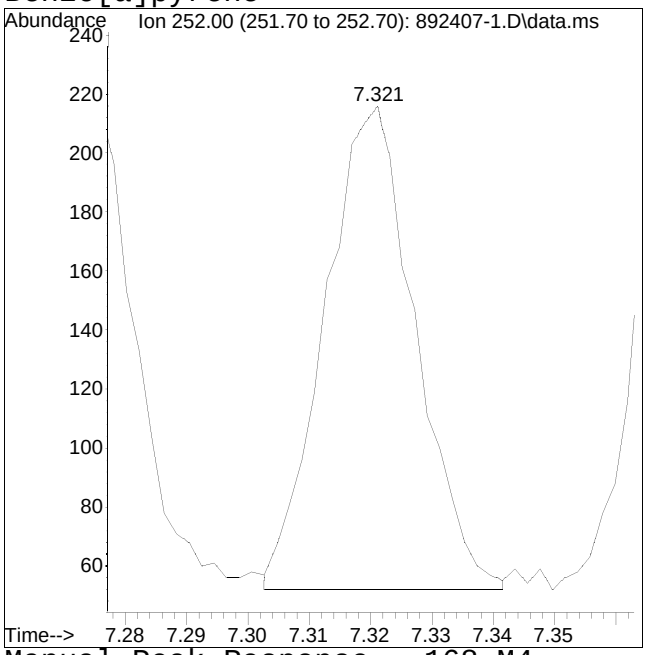
Manual Integration Report

Data Path : I:\8270SIM\sv119\240306LVIQMethod : SIM-LVI_231207n_sv119.M
Data File : 892407-1.D Operator : sv119:jjw
Date Inj'd : 3/6/2024 7:43 am Instrument : SV119
Sample : WG1892407-1,32,,ah Quant Date : 3/6/2024 7:59 am

Compound #39: Benzo[a]pyrene



Original Peak Response = 162



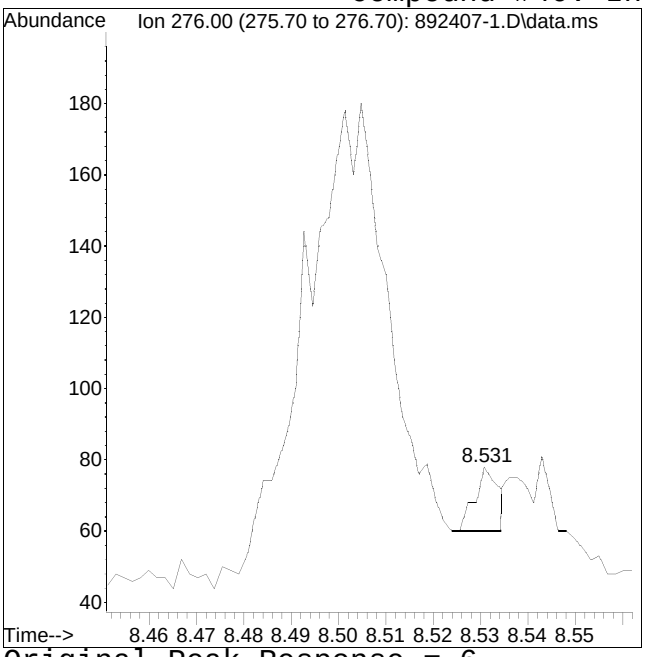
Manual Peak Response = 168 M4

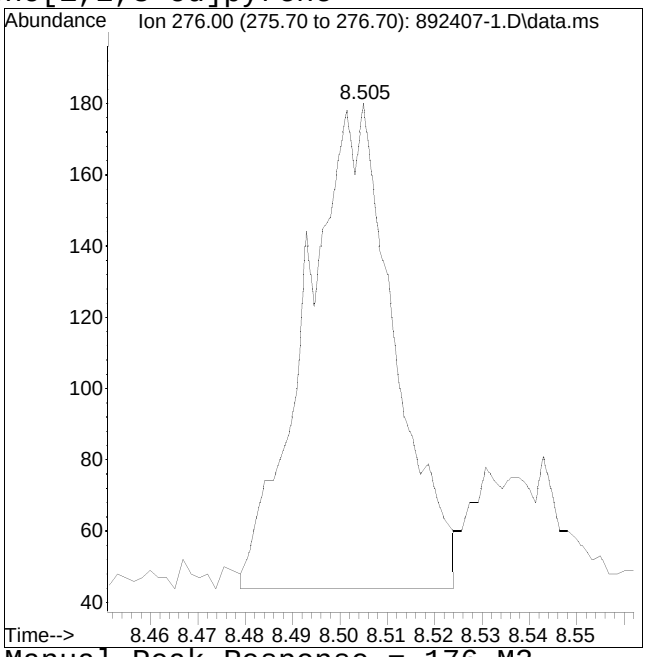
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\8270SIM\sv119\240306LVIQMethod : SIM-LVI_231207n_sv119.M
Data File : 892407-1.D Operator : sv119:jjw
Date Inj'd : 3/6/2024 7:43 am Instrument : SV119
Sample : WG1892407-1,32,,ah Quant Date : 3/6/2024 7:59 am

Compound #40: Indeno[1,2,3-cd]pyrene





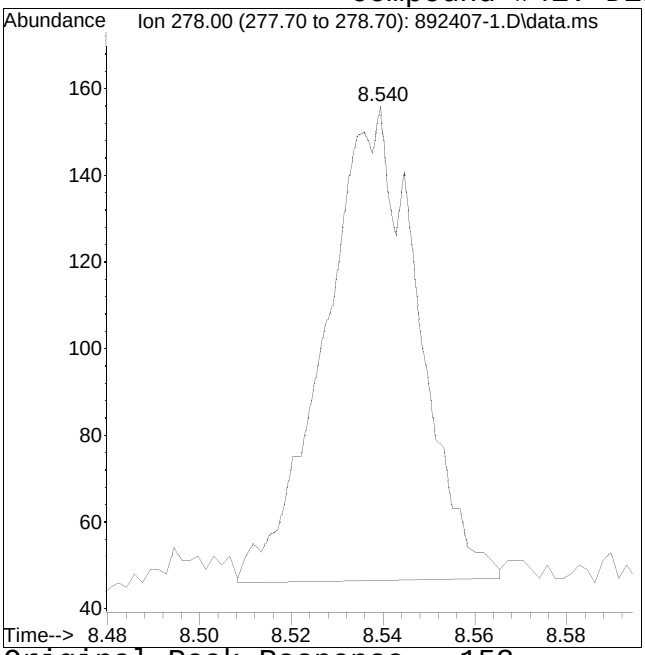
Original Peak Response = 6 Manual Peak Response = 176 M3

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

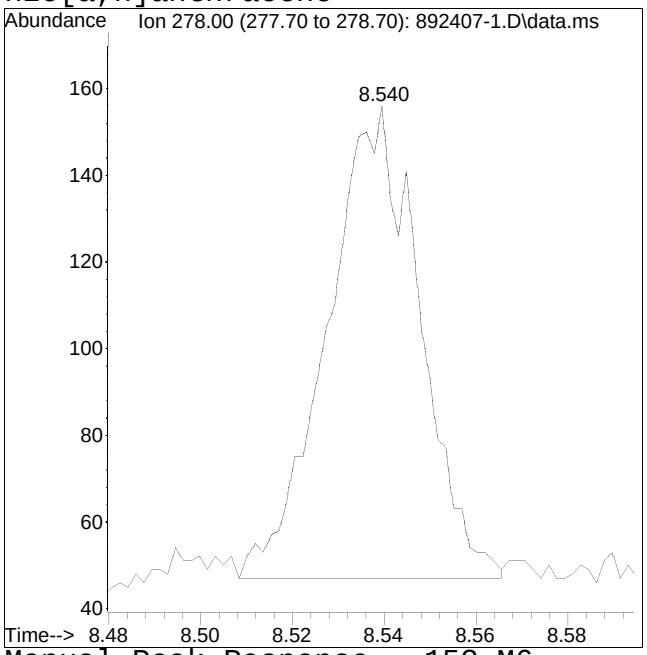
Manual Integration Report

Data Path : I:\8270SIM\sv119\240306LVIQMethod : SIM-LVI_231207n_sv119.M
Data File : 892407-1.D Operator : sv119:jjw
Date Inj'd : 3/6/2024 7:43 am Instrument : SV119
Sample : WG1892407-1,32,,ah Quant Date : 3/6/2024 7:59 am

Compound #41: Dibenzo[a,h]anthracene



Original Peak Response = 153



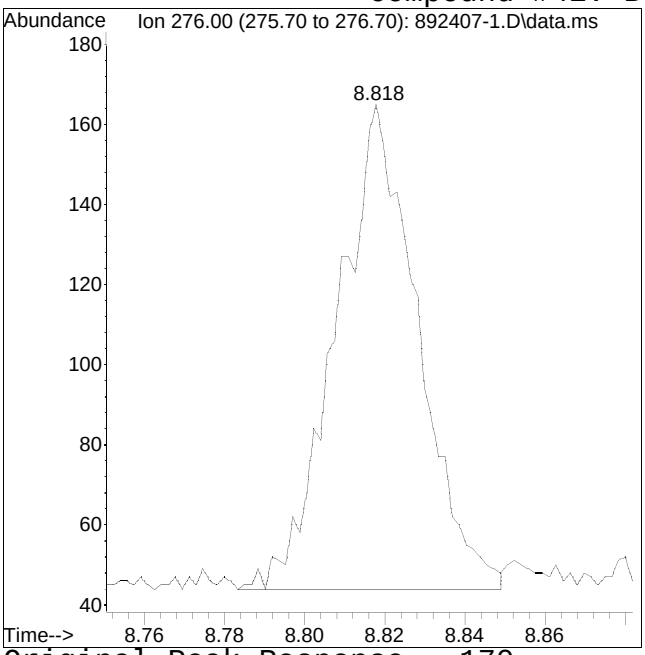
Manual Peak Response = 152 M6

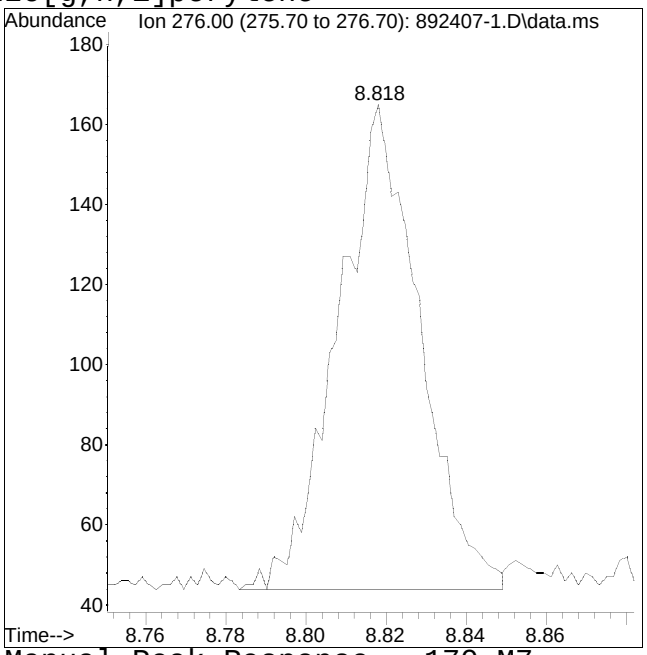
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

Data Path : I:\8270SIM\sv119\240306LVIQMethod : SIM-LVI_231207n_sv119.M
Data File : 892407-1.D Operator : sv119:jjw
Date Inj'd : 3/6/2024 7:43 am Instrument : SV119
Sample : WG1892407-1,32,,ah Quant Date : 3/6/2024 7:59 am

Compound #42: Benzo[g,h,i]perylene





Original Peak Response = 170 Manual Peak Response = 170 M7
M7 = A qualifier ion was manually integrated (only for GC/MS data).

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV128\240303\
Data File : 891420-2.D
Acq On : 03 Mar 2024 04:57 pm
Operator : SV128:jjw
Sample : WG1891420-2,32,,ah
Misc : WG1891581,WG1891420,ical20676
ALS Vial : 30 Sample Multiplier: 1

Quant Time: Mar 04 09:41:58 2024
Quant Method : I:\8270sim\sv128\240303\SIM-LVI_231211_sv128.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sun Mar 03 08:22:48 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv128\240303\ccv0303.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	2.340	152	2012	4000.000	ng/ml		0.00
Standard Area 1 = 2643			Recovery = 76.13%				
8) Naphthalene-d8	3.021	136	8001	4000.000	ng/ml	#	0.00
Standard Area 1 = 9361			Recovery = 85.47%				
17) Acenaphthene-d10	4.024	164	4798	4000.000	ng/ml		0.00
Standard Area 1 = 5723			Recovery = 83.84%				
22) Phenanthrene-d10	4.894	188	11701	4000.000	ng/ml		0.00
Standard Area 1 = 13127			Recovery = 89.14%				
31) Chrysene-d12	6.530	240	12030	4000.000	ng/ml		0.00
Standard Area 1 = 12561			Recovery = 95.77%				
36) Perylene-d12	7.922	264	12690	4000.000	ng/ml		0.00
Standard Area 1 = 13889			Recovery = 91.37%				
System Monitoring Compounds							
2) 2-Fluorophenol	1.731	112	1480	2921.120	ng/ml		0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 58.42%				
3) Phenol-d6	2.153	99	1640	2769.712	ng/ml		0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 55.39%				
7) Nitrobenzene-d5	2.627	82	903	1887.079	ng/ml		0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 75.48%				
13) 2-Fluorobiphenyl	3.630	172	2729	1608.341	ng/ml		0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 64.33%				
21) 2,4,6-Tribromophenol	4.485	330	1089	4541.975	ng/ml		0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 90.84%				
30) 4-Terphenyl-d14	5.838	244	4543	1863.610	ng/ml		0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 74.54%				
Target Compounds							Qvalue
6) Hexachloroethane	2.606	117	667	2775.820	ng/ml		90
9) Naphthalene	3.033	128	6106	2975.931	ng/ml	#	99
10) Hexachlorobutadiene	3.103	225	1288	2740.416	ng/ml		96
11) 2-Methylnaphthalene	3.419	142	4143	3160.850	ng/ml		100
14) 2-Chloronaphthalene	3.701	162	4645	3255.247	ng/ml		94
16) Acenaphthylene	3.939	152	7371	3487.104	ng/ml		99
18) Acenaphthene	4.042	153	5119	3156.131	ng/ml		99
20) Fluorene	4.342	166	5724	3496.830	ng/ml		100
24) Hexachlorobenzene	4.672	284	2443	3137.673	ng/ml		95
25) Pentachlorophenol	4.790	266	1126	3029.729	ng/ml		99

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV128\240303\
Data File : 891420-2.D
Acq On : 03 Mar 2024 04:57 pm
Operator : SV128:jjw
Sample : WG1891420-2,32,,ah
Misc : WG1891581,WG1891420,ical20676
ALS Vial : 30 Sample Multiplier: 1

Quant Time: Mar 04 09:41:58 2024
Quant Method : I:\8270sim\sv128\240303\SIM-LVI_231211_sv128.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sun Mar 03 08:22:48 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv128\240303\ccv0303.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Phenanthrene	4.906	178	9836	3108.643	ng/ml	99
27) Anthracene	4.935	178	10175	3328.079	ng/ml	99
28) Fluoranthene	5.611	202	13052	3754.645	ng/ml	99
29) Pyrene	5.745	202	13773	3829.420	ng/ml	99
32) Benzo[a]anthracene	6.522	228	14091	3260.743	ng/ml	100
34) Chrysene	6.549	228	13283	3202.762	ng/ml	100
37) Benzo[b]fluoranthene	7.495	252	13464	3426.088	ng/ml	99
38) Benzo[k]fluoranthene	7.523	252	13403	3664.932	ng/ml	100
39) Benzo[a]pyrene	7.853	252	11770	3401.172	ng/ml	100
40) Indeno[1,2,3-cd]pyrene	9.320	276	11623	3358.948	ng/ml	97
41) Dibenzo[a,h]anthracene	9.361	278	11828M6	3519.415	ng/ml	
42) Benzo[g,h,i]perylene	9.701	276	11473M1	3189.866	ng/ml	

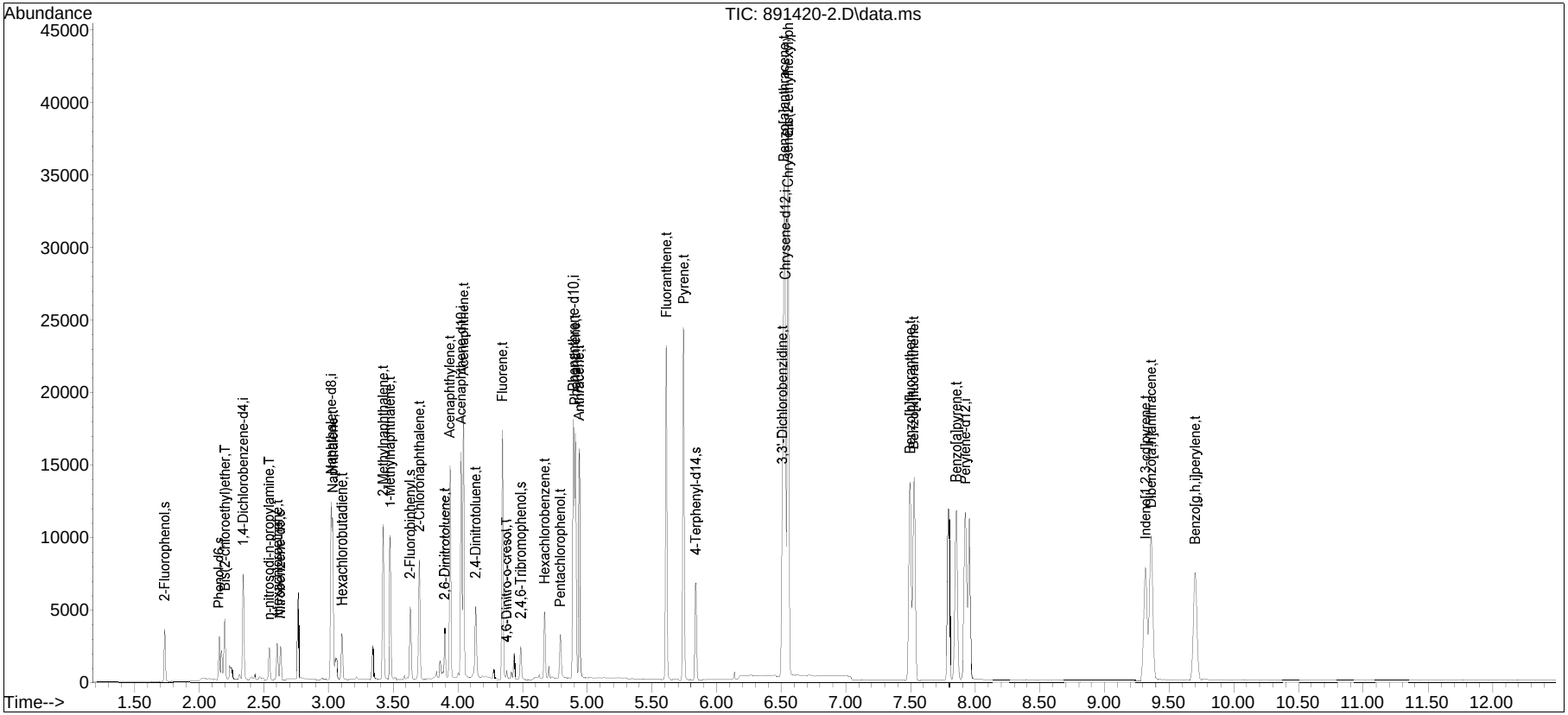
(#) = qualifier out of range (m) = manual integration (+) = signals summed

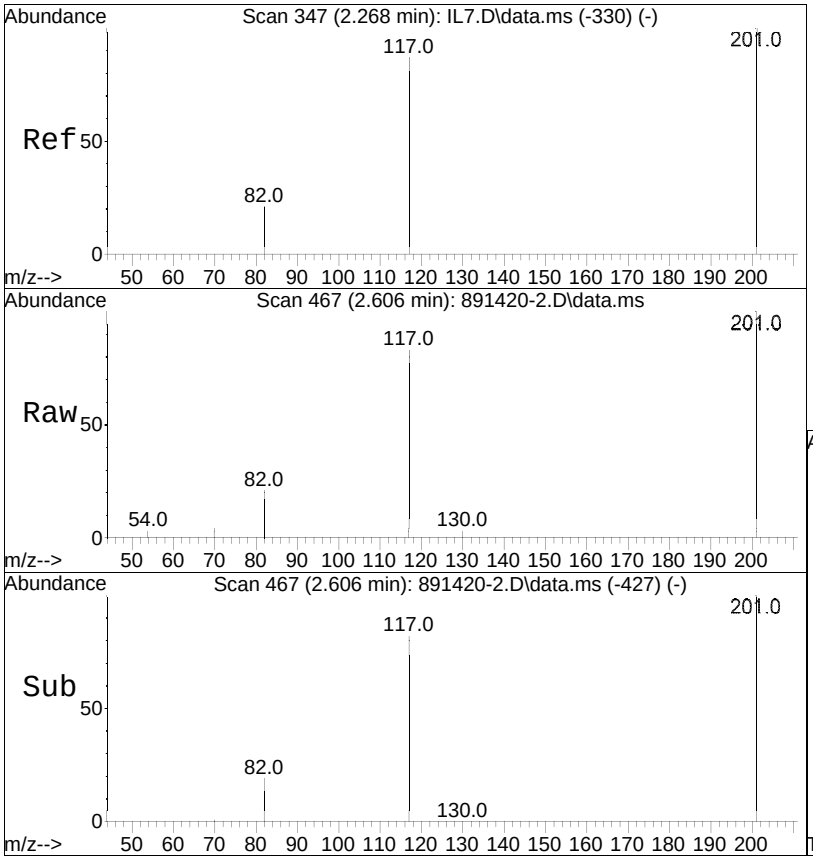
Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV128\240303\
Data File : 891420-2.D
Acq On : 03 Mar 2024 04:57 pm
Operator : SV128:jjw
Sample : WG1891420-2,32,,ah
Misc : WG1891581,WG1891420,ical20676
ALS Vial : 30 Sample Multiplier: 1

Quant Time: Mar 04 09:41:58 2024
Quant Method : I:\8270sim\sv128\240303\SIM-LVI_231211_sv128.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sun Mar 03 08:22:48 2024
Response via : Initial Calibration

Sub List : DEFAULT - All compounds listedv0303.D•

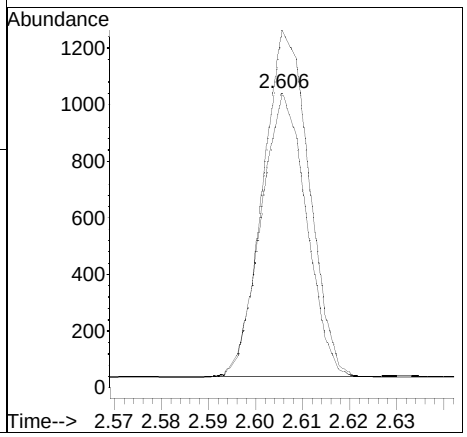


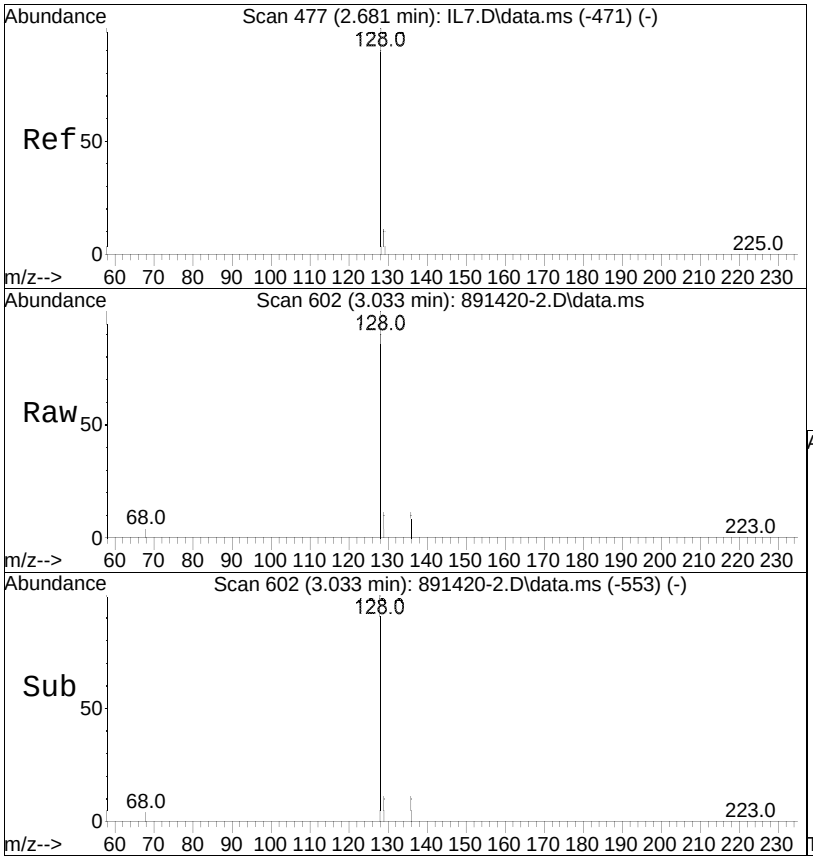


#6
Hexachloroethane
Concen: 2775.82 ng/ml
RT: 2.606 min Scan# 467
Delta R.T. -0.006 min
Lab File: 891420-2.D
Acq: 03 Mar 2024 04:57 pm

Tgt Ion:117 Resp: 667

Ion	Ratio	Lower	Upper
117	100		
201	125.0	91.8	137.6

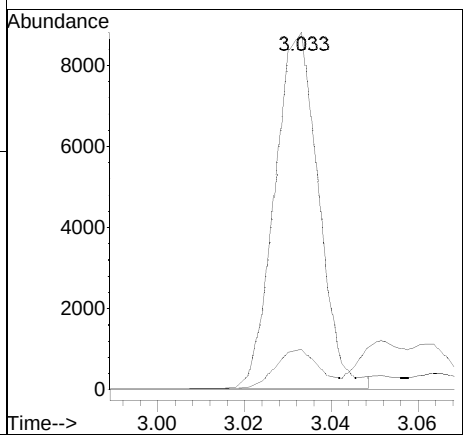


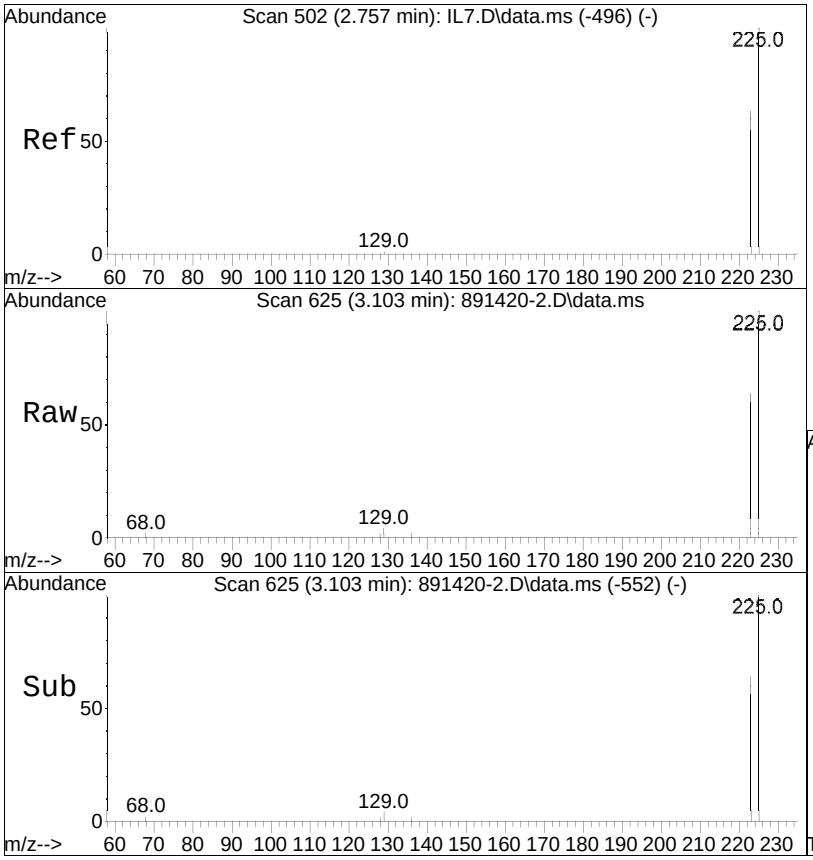


#9
Naphthalene
Concen: 2975.93 ng/ml
RT: 3.033 min Scan# 602
Delta R.T. -0.003 min
Lab File: 891420-2.D
Acq: 03 Mar 2024 04:57 pm

Tgt Ion:128 Resp: 6106

Ion	Ratio	Lower	Upper
128	100		
129	11.3	8.8	13.2
127	0.0	0.0	0.0

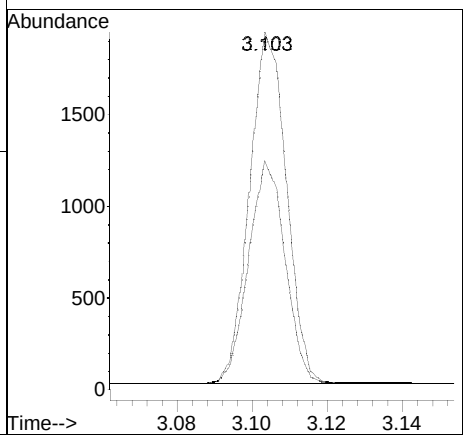


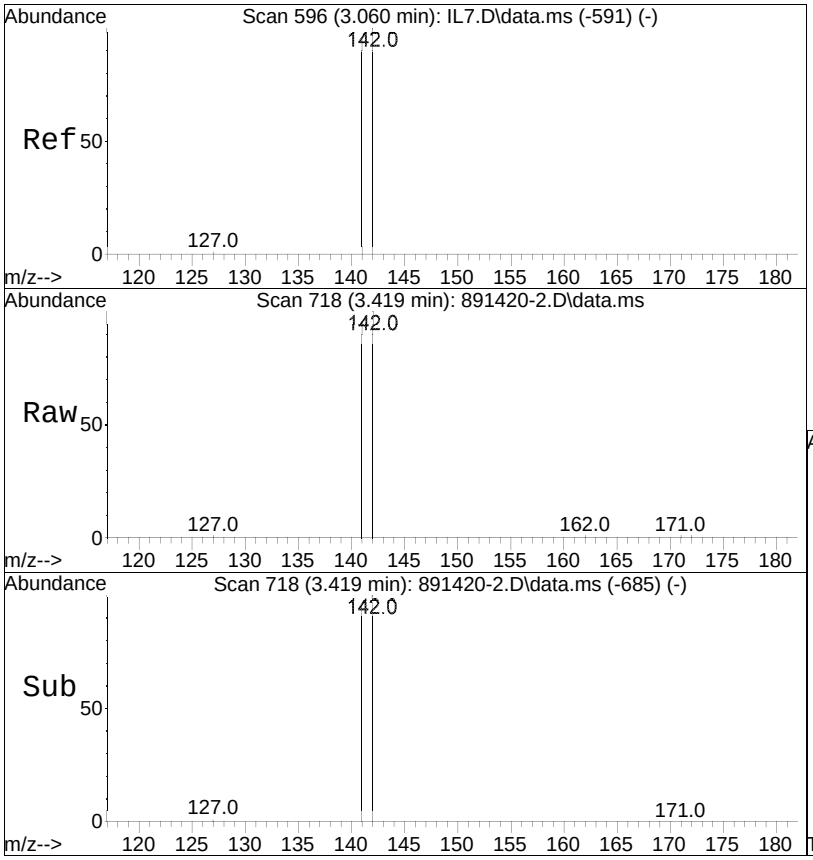


#10
Hexachlorobutadiene
Concen: 2740.42 ng/ml
RT: 3.103 min Scan# 625
Delta R.T. -0.006 min
Lab File: 891420-2.D
Acq: 03 Mar 2024 04:57 pm

Tgt Ion:225 Resp: 1288

Ion	Ratio	Lower	Upper
225	100		
223	65.5	49.9	74.9

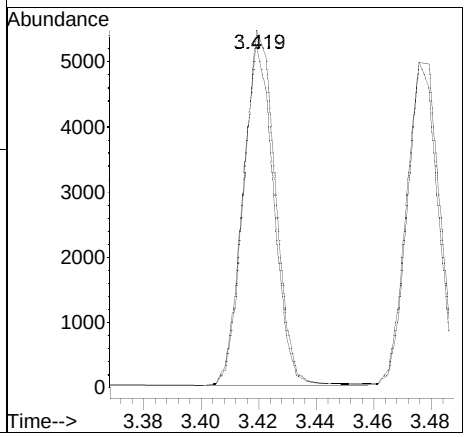


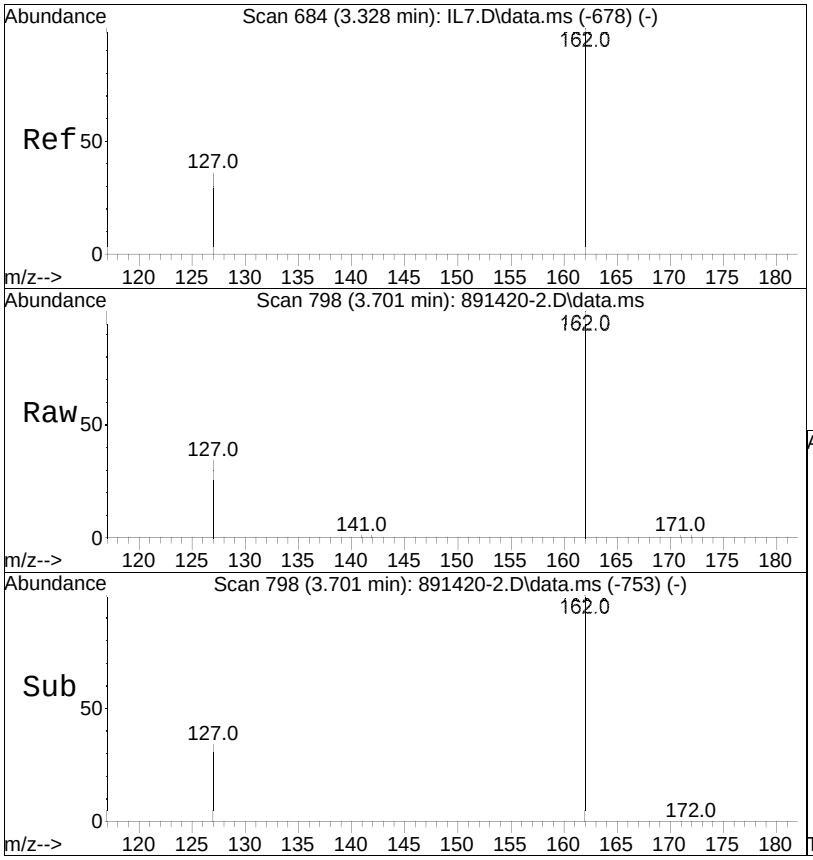


#11
2-Methylnaphthalene
Concen: 3160.85 ng/ml
RT: 3.419 min Scan# 718
Delta R.T. -0.007 min
Lab File: 891420-2.D
Acq: 03 Mar 2024 04:57 pm

Tgt Ion:142 Resp: 4143

Ion	Ratio	Lower	Upper
142	100		
141	94.5	75.9	113.9

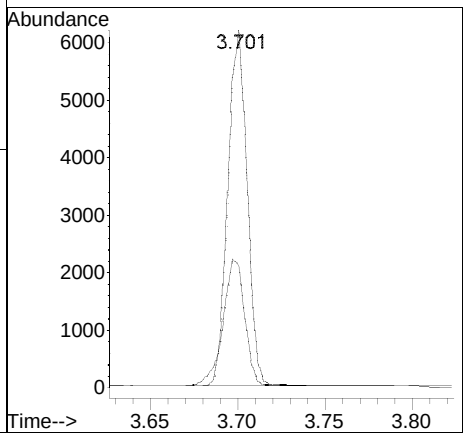


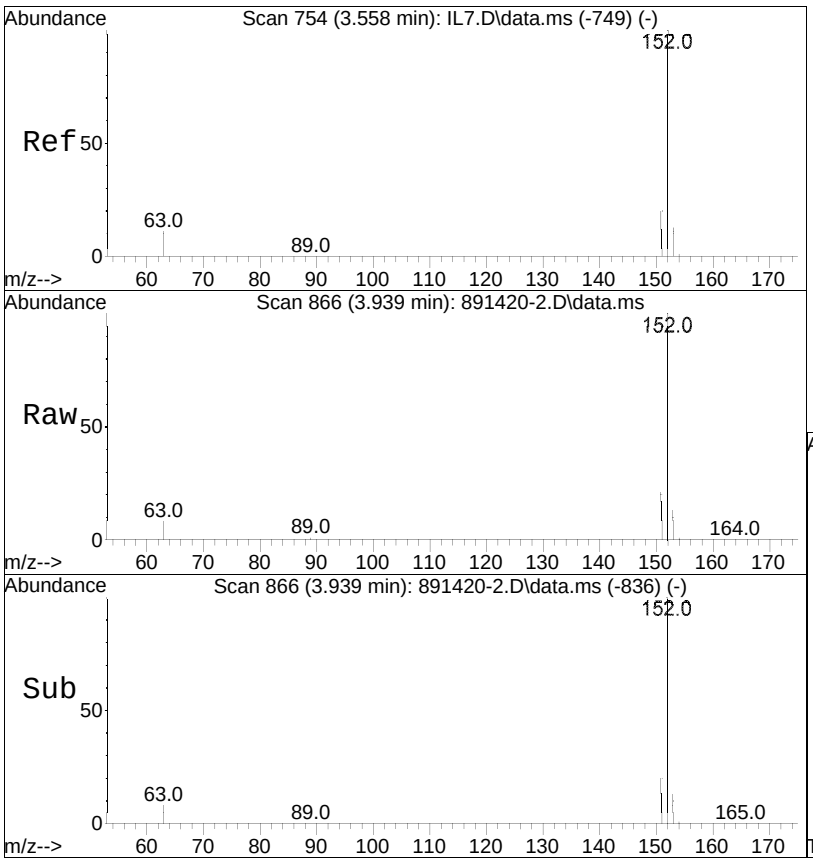


#14
2-Chloronaphthalene
Concen: 3255.25 ng/ml
RT: 3.701 min Scan# 798
Delta R.T. -0.004 min
Lab File: 891420-2.D
Acq: 03 Mar 2024 04:57 pm

Tgt Ion:162 Resp: 4645

Ion	Ratio	Lower	Upper
162	100		
127	40.1	29.3	43.9

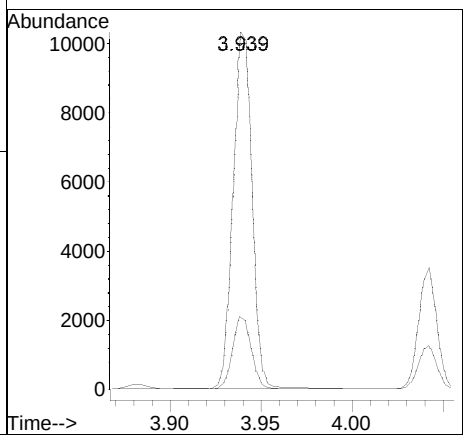


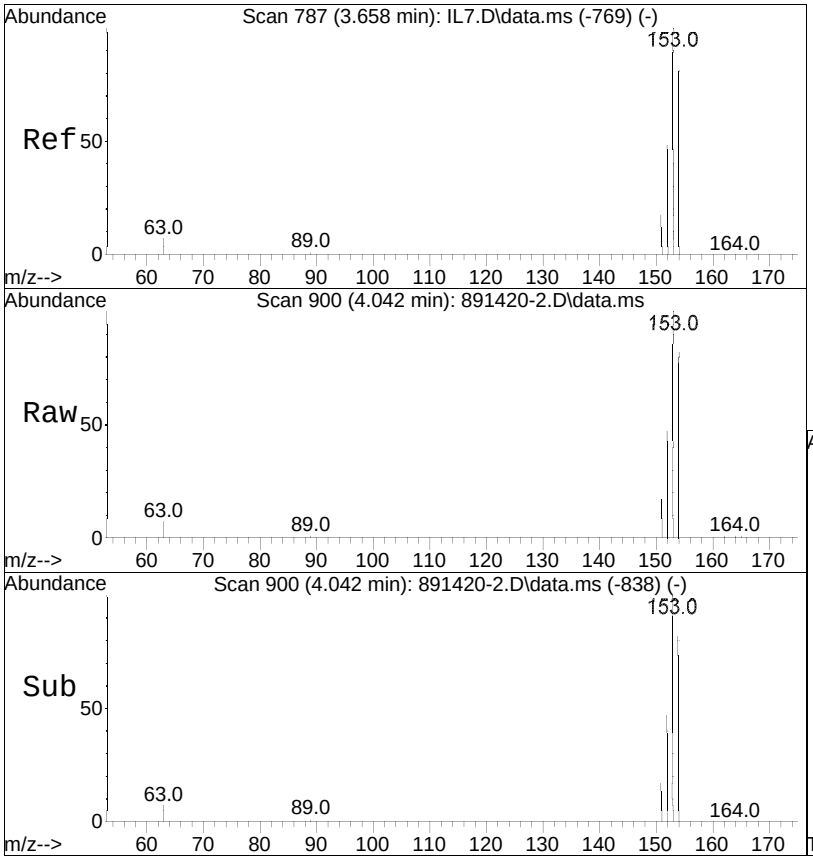


#16
Acenaphthylene
Concen: 3487.10 ng/ml
RT: 3.939 min Scan# 866
Delta R.T. -0.007 min
Lab File: 891420-2.D
Acq: 03 Mar 2024 04:57 pm

Tgt Ion:152 Resp: 7371

Ion	Ratio	Lower	Upper
152	100		
151	20.0	16.4	24.6

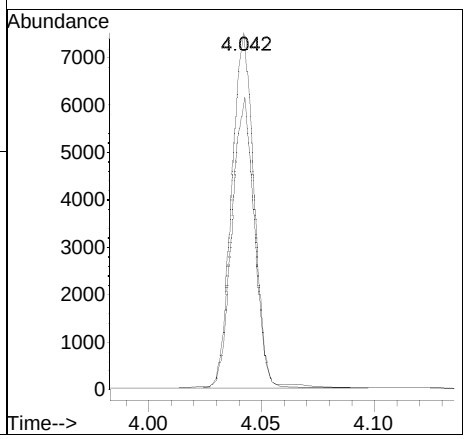


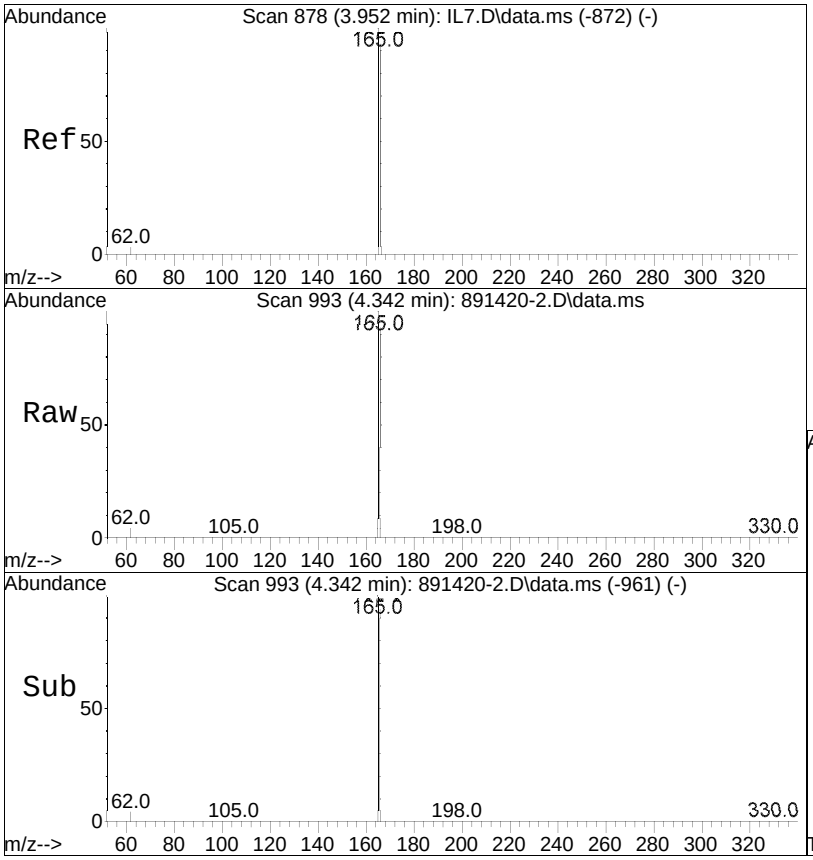


#18
Acenaphthene
Concen: 3156.13 ng/ml
RT: 4.042 min Scan# 900
Delta R.T. -0.007 min
Lab File: 891420-2.D
Acq: 03 Mar 2024 04:57 pm

Tgt Ion:153 Resp: 5119

Ion	Ratio	Lower	Upper
153	100		
154	83.2	65.8	98.6

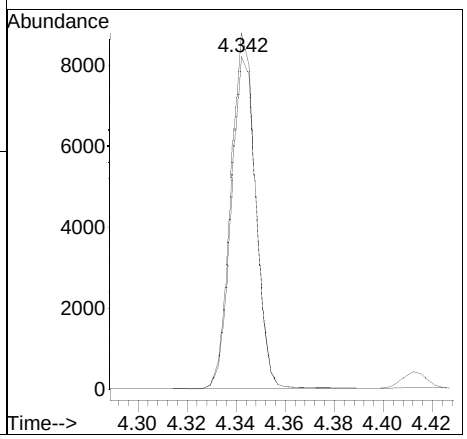


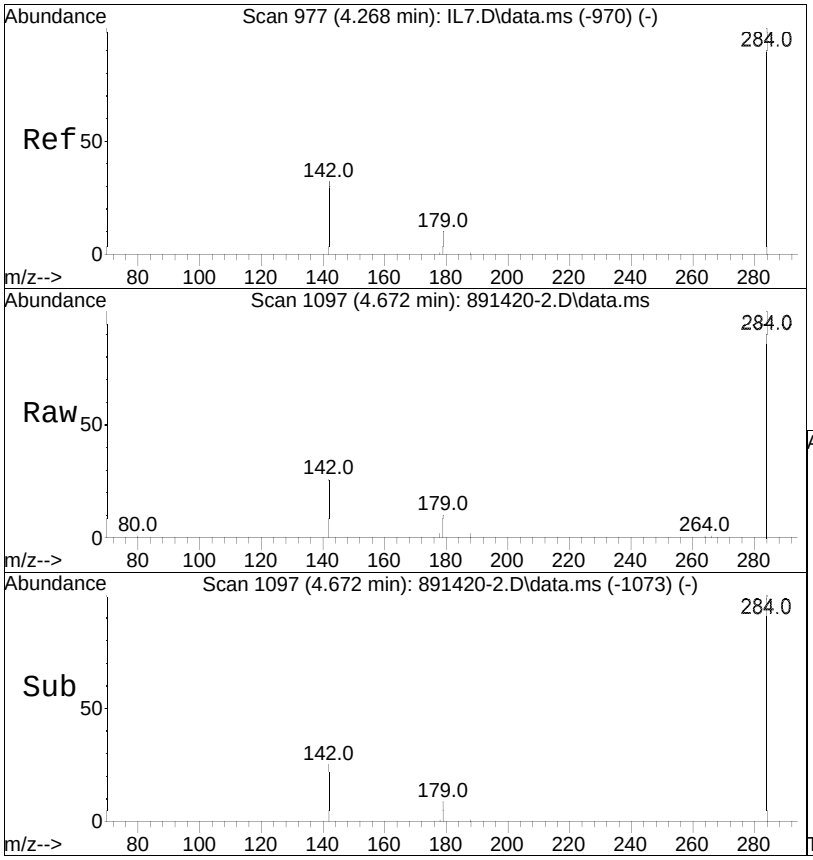


#20
Fluorene
Concen: 3496.83 ng/ml
RT: 4.342 min Scan# 993
Delta R.T. -0.007 min
Lab File: 891420-2.D
Acq: 03 Mar 2024 04:57 pm

Tgt Ion:166 Resp: 5724

Ion	Ratio	Lower	Upper
166	100		
165	107.0	85.7	128.5

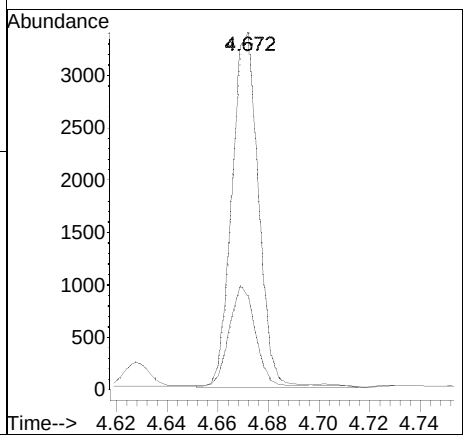


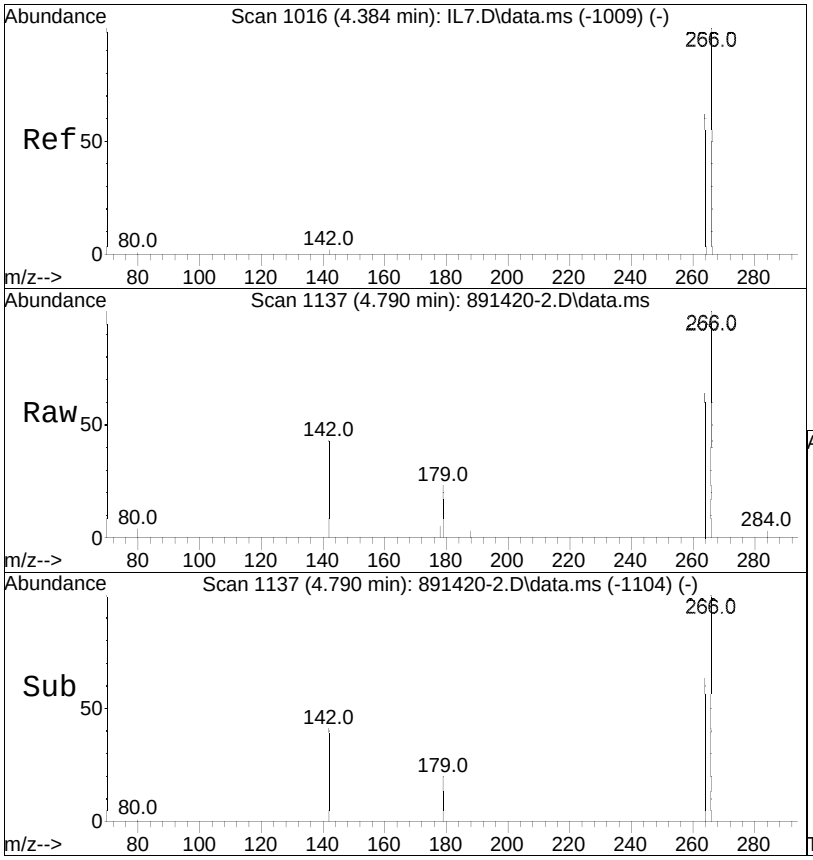


#24
Hexachlorobenzene
Concen: 3137.67 ng/ml
RT: 4.672 min Scan# 1097
Delta R.T. -0.003 min
Lab File: 891420-2.D
Acq: 03 Mar 2024 04:57 pm

Tgt Ion:284 Resp: 2443

Ion	Ratio	Lower	Upper
284	100		
142	27.2	23.9	35.9

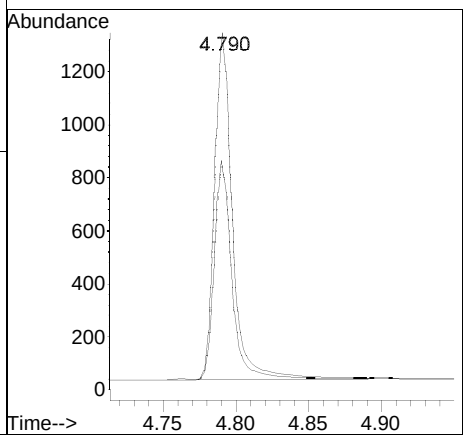


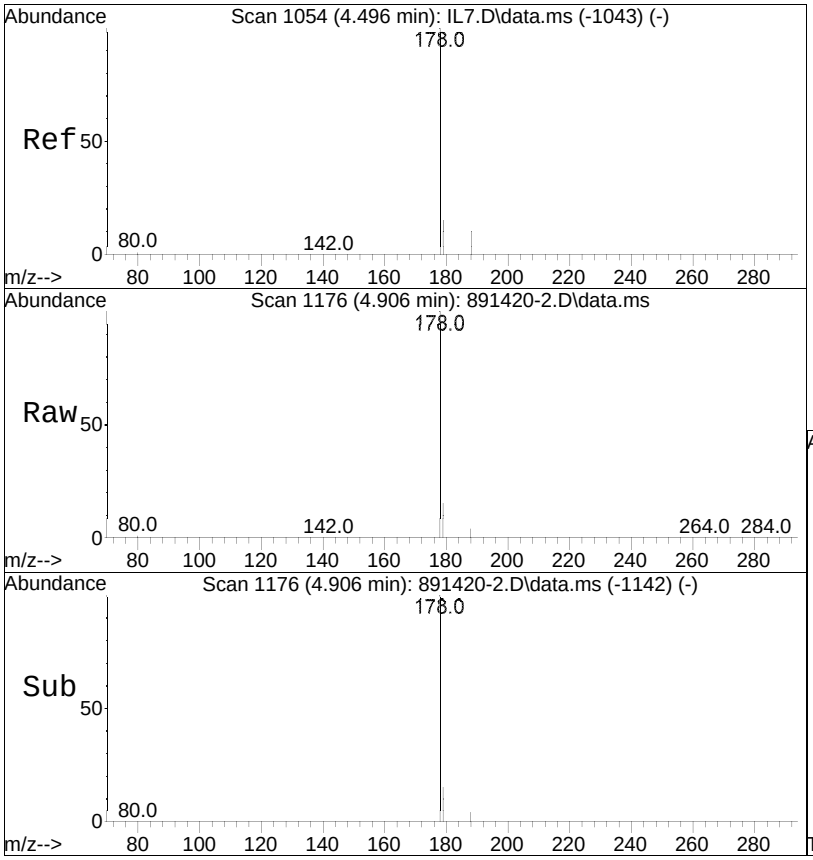


#25
Pentachlorophenol
Concen: 3029.73 ng/ml
RT: 4.790 min Scan# 1137
Delta R.T. -0.006 min
Lab File: 891420-2.D
Acq: 03 Mar 2024 04:57 pm

Tgt Ion:266 Resp: 1126

Ion	Ratio	Lower	Upper
266	100		
264	62.9	49.7	74.5

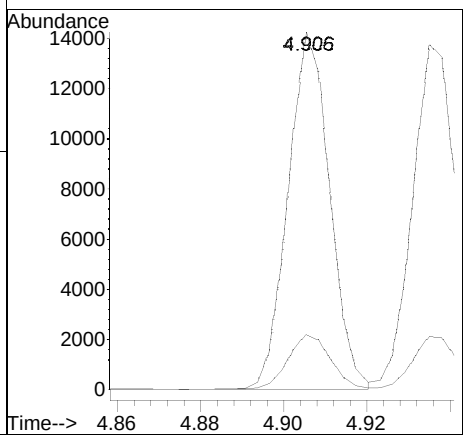


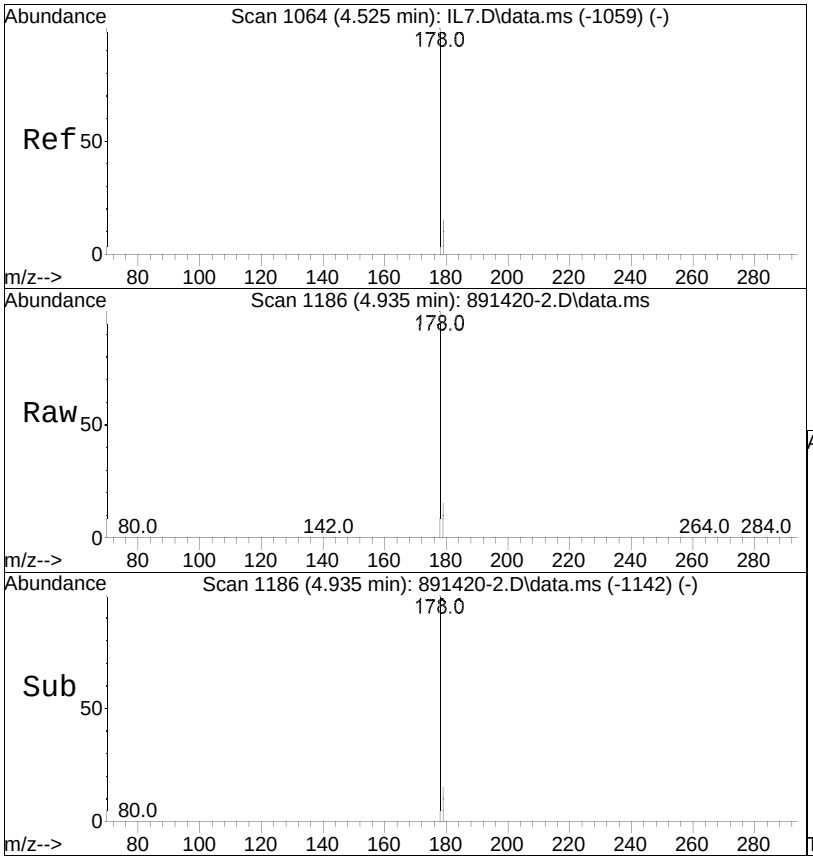


#26
Phenanthrene
Concen: 3108.64 ng/ml
RT: 4.906 min Scan# 1176
Delta R.T. -0.006 min
Lab File: 891420-2.D
Acq: 03 Mar 2024 04:57 pm

Tgt Ion:178 Resp: 9836

Ion	Ratio	Lower	Upper
178	100		
179	15.7	12.2	18.4

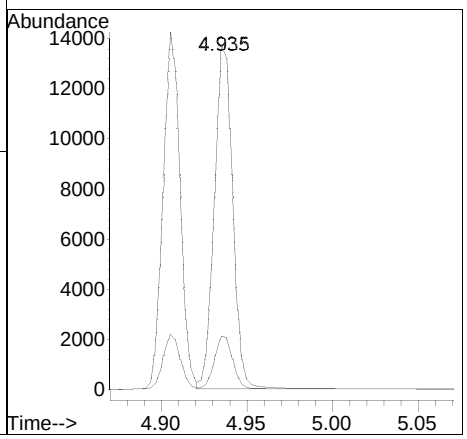


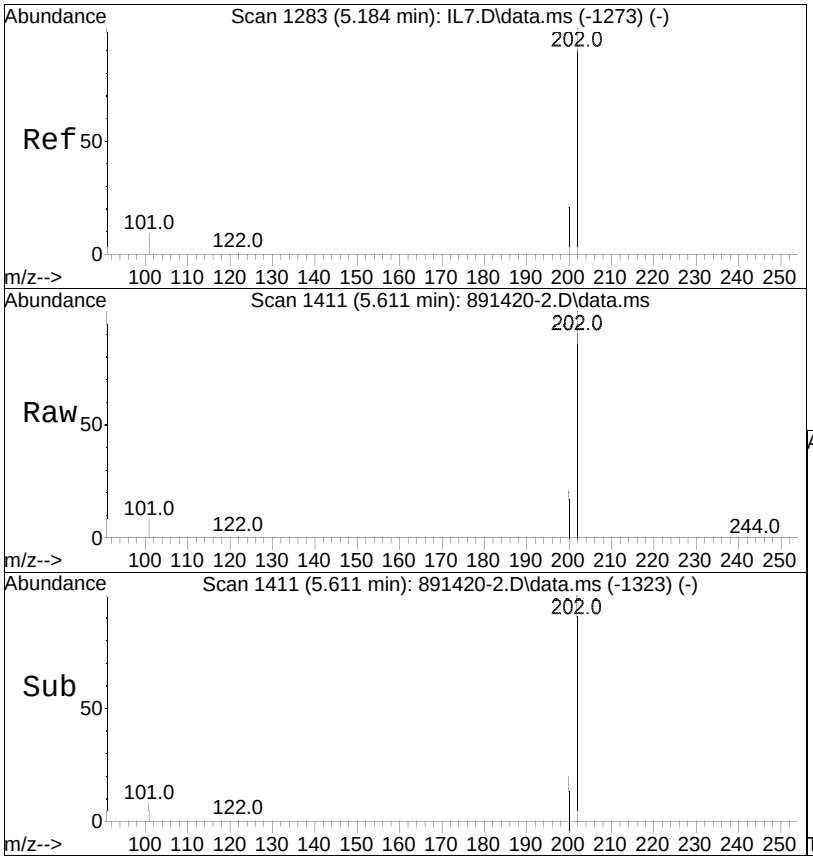


#27
Anthracene
Concen: 3328.08 ng/ml
RT: 4.935 min Scan# 1186
Delta R.T. -0.006 min
Lab File: 891420-2.D
Acq: 03 Mar 2024 04:57 pm

Tgt Ion:178 Resp: 10175

Ion	Ratio	Lower	Upper
178	100		
179	15.4	12.2	18.2

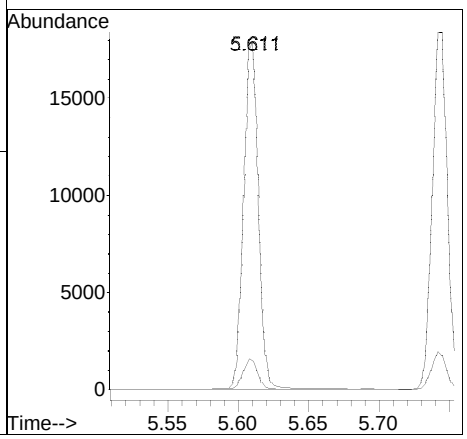


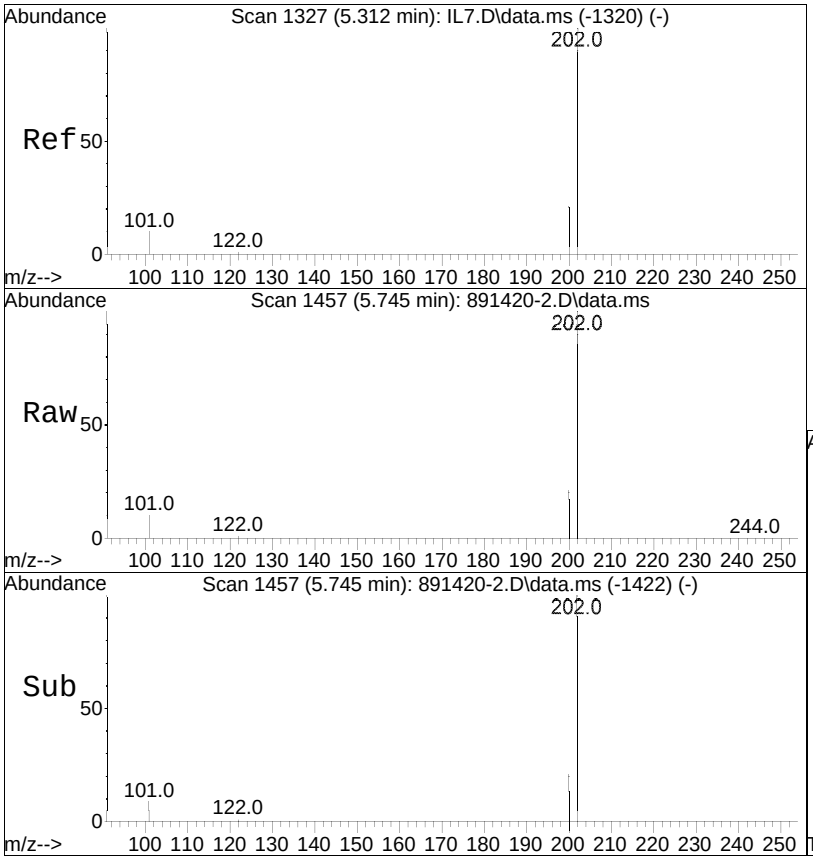


#28
Fluoranthene
Concen: 3754.64 ng/ml
RT: 5.611 min Scan# 1411
Delta R.T. -0.003 min
Lab File: 891420-2.D
Acq: 03 Mar 2024 04:57 pm

Tgt Ion:202 Resp: 13052

Ion	Ratio	Lower	Upper
202	100		
101	8.6	7.2	10.8

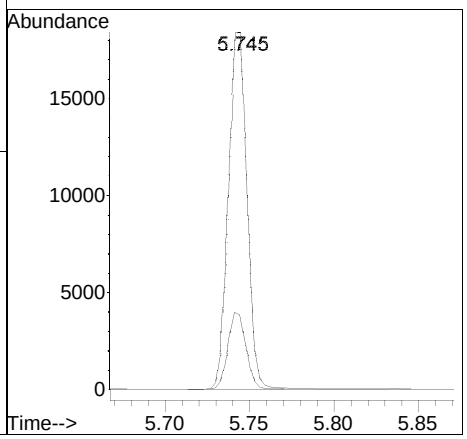


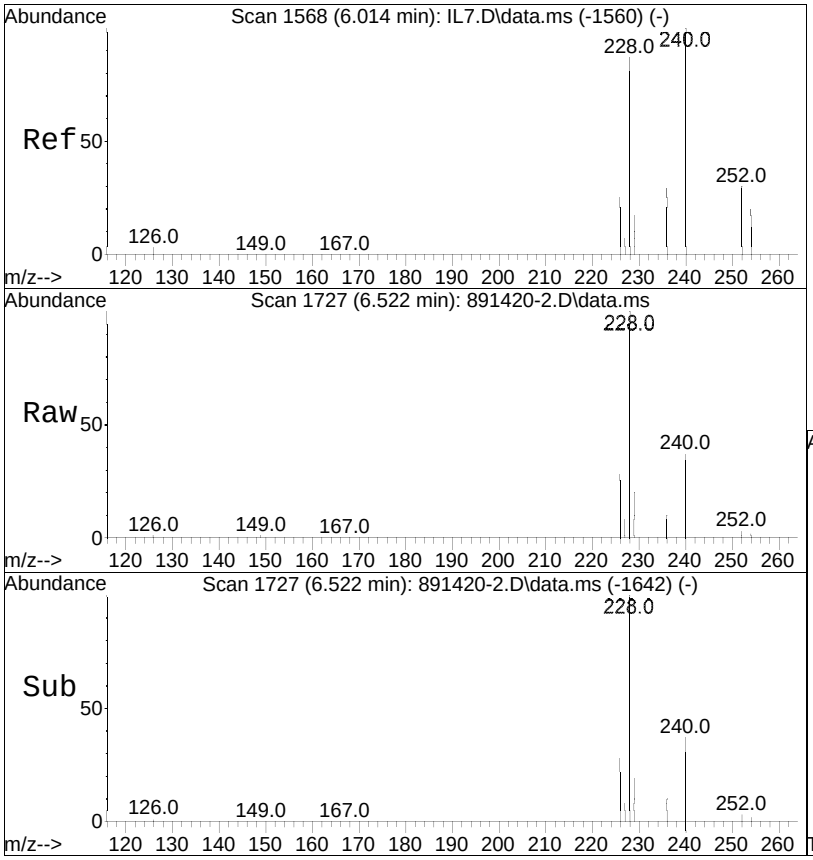


#29
Pyrene
Concen: 3829.42 ng/ml
RT: 5.745 min Scan# 1457
Delta R.T. -0.003 min
Lab File: 891420-2.D
Acq: 03 Mar 2024 04:57 pm

Tgt Ion:202 Resp: 13773

Ion	Ratio	Lower	Upper
202	100		
200	21.8	17.7	26.5

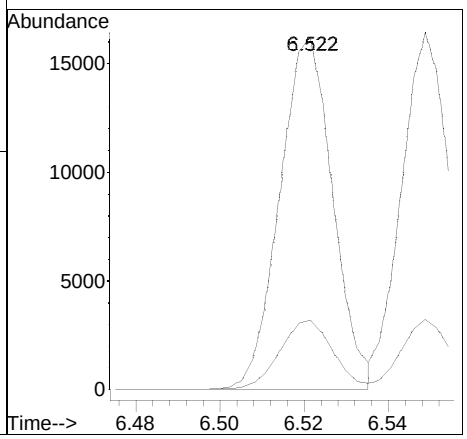


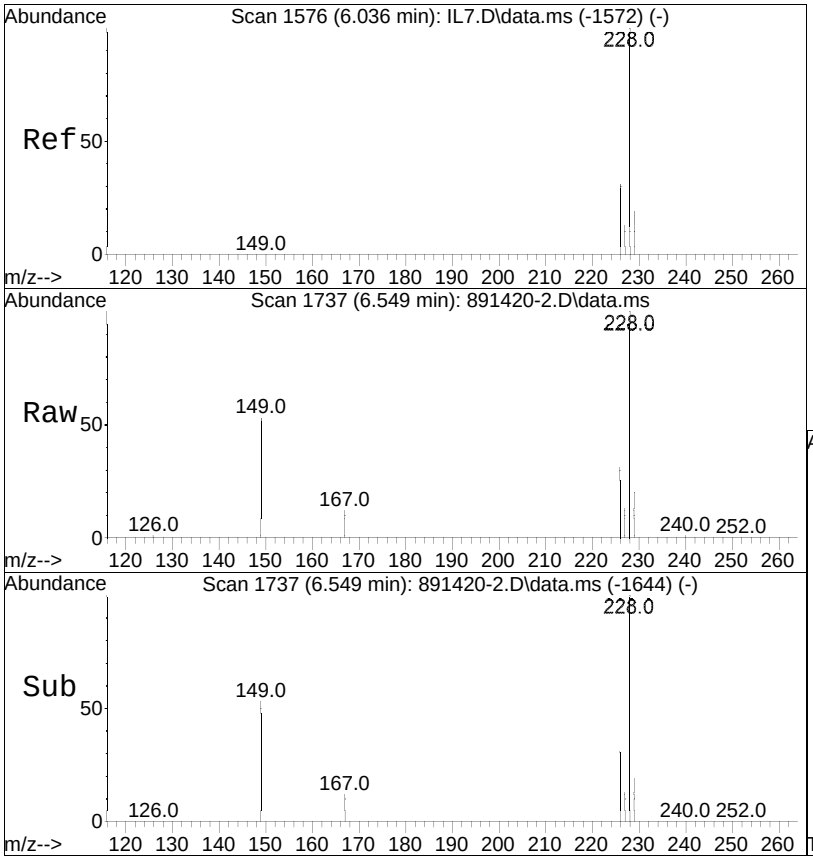


#32
Benzo[a]anthracene
Concen: 3260.74 ng/ml
RT: 6.522 min Scan# 1727
Delta R.T. -0.006 min
Lab File: 891420-2.D
Acq: 03 Mar 2024 04:57 pm

Tgt Ion:228 Resp: 14091

Ion	Ratio	Lower	Upper
228	100		
229	19.5	15.7	23.5

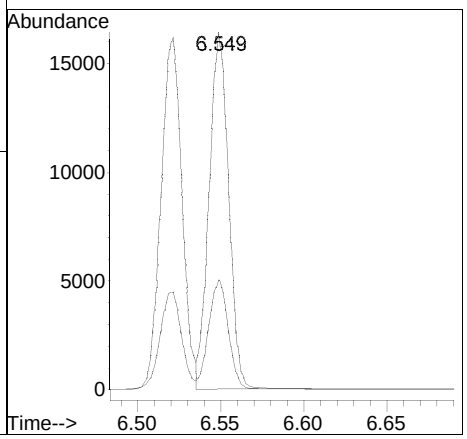


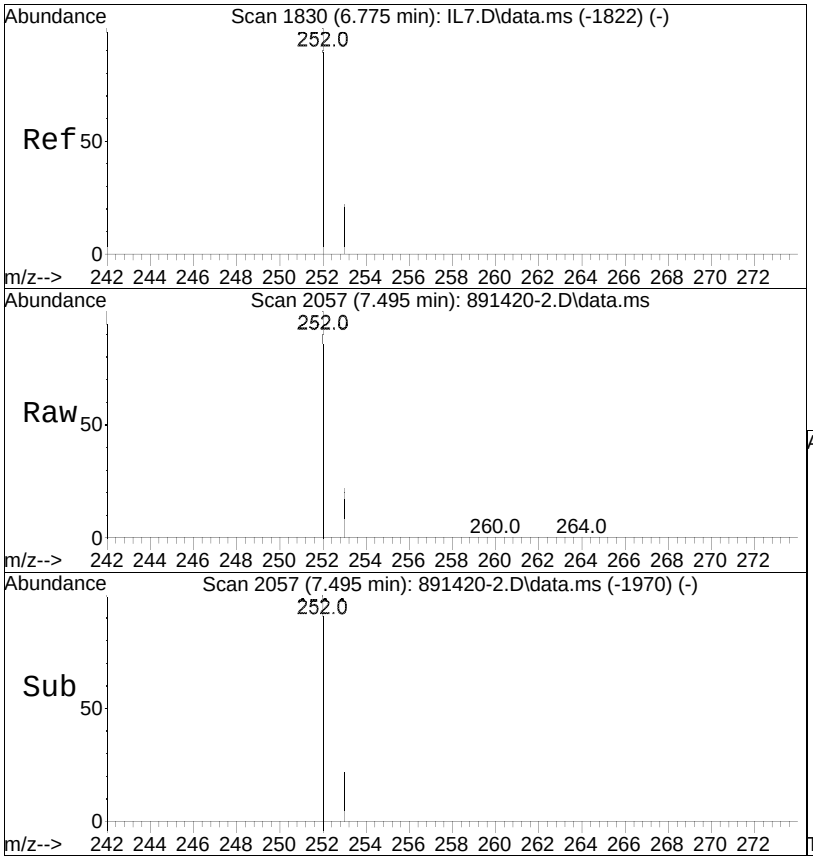


#34
Chrysene
Concen: 3202.76 ng/ml
RT: 6.549 min Scan# 1737
Delta R.T. -0.006 min
Lab File: 891420-2.D
Acq: 03 Mar 2024 04:57 pm

Tgt Ion:228 Resp: 13283

Ion	Ratio	Lower	Upper
228	100		
226	30.7	24.6	36.8

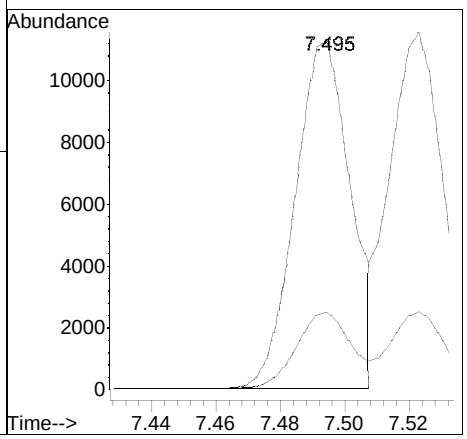


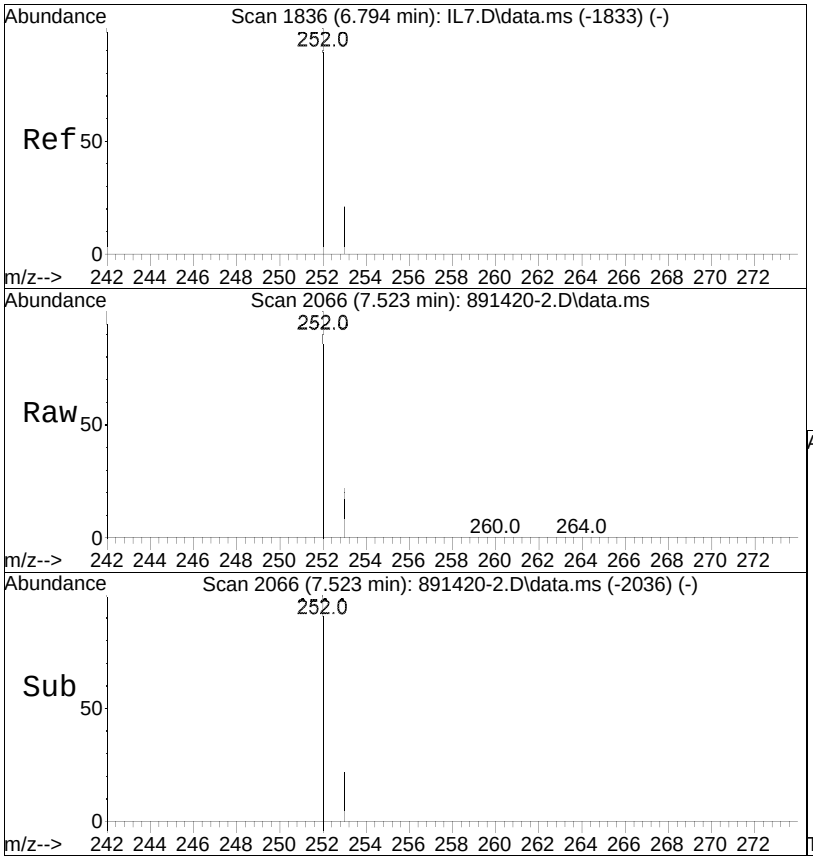


#37
Benzo[b]fluoranthene
Concen: 3426.09 ng/ml
RT: 7.495 min Scan# 2057
Delta R.T. -0.004 min
Lab File: 891420-2.D
Acq: 03 Mar 2024 04:57 pm

Tgt Ion:252 Resp: 13464

Ion	Ratio	Lower	Upper
252	100		
253	21.7	17.1	25.7

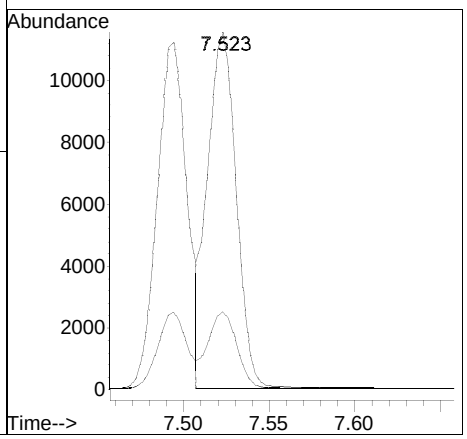


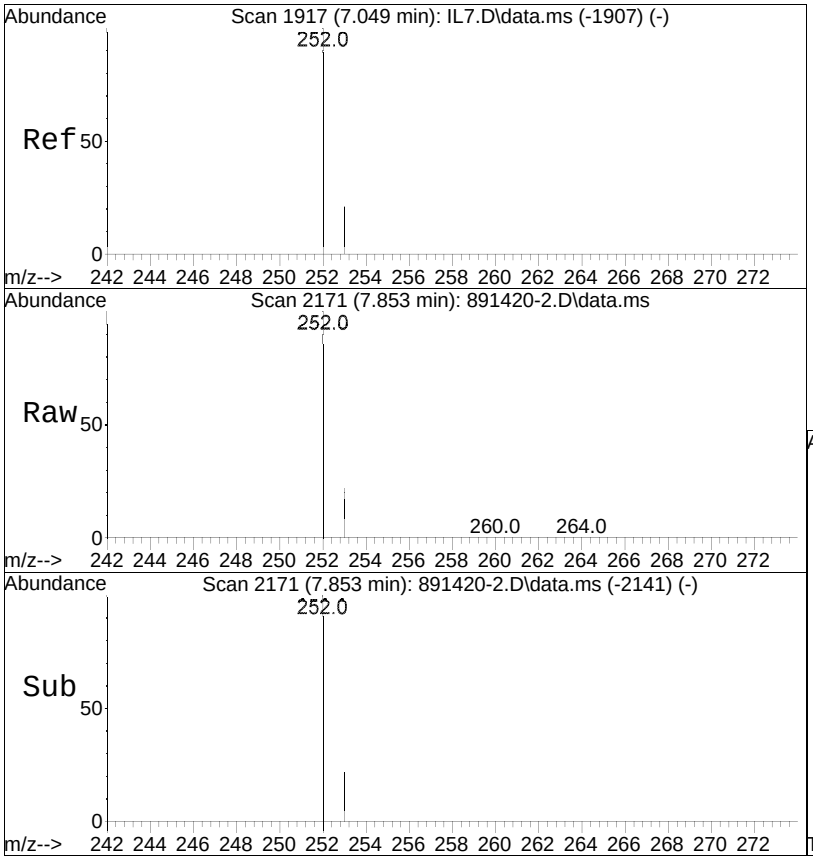


#38
Benzo[k]fluoranthene
Concen: 3664.93 ng/ml
RT: 7.523 min Scan# 2066
Delta R.T. -0.004 min
Lab File: 891420-2.D
Acq: 03 Mar 2024 04:57 pm

Tgt Ion:252 Resp: 13403

Ion	Ratio	Lower	Upper
252	100		
253	21.8	17.3	25.9

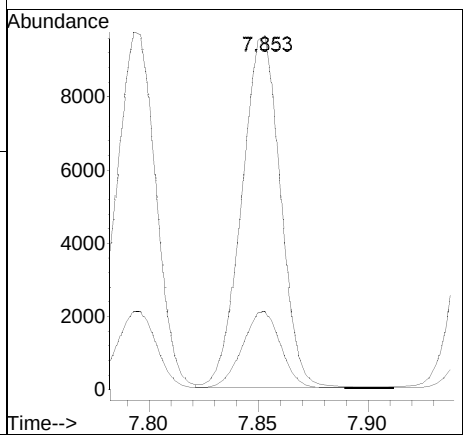


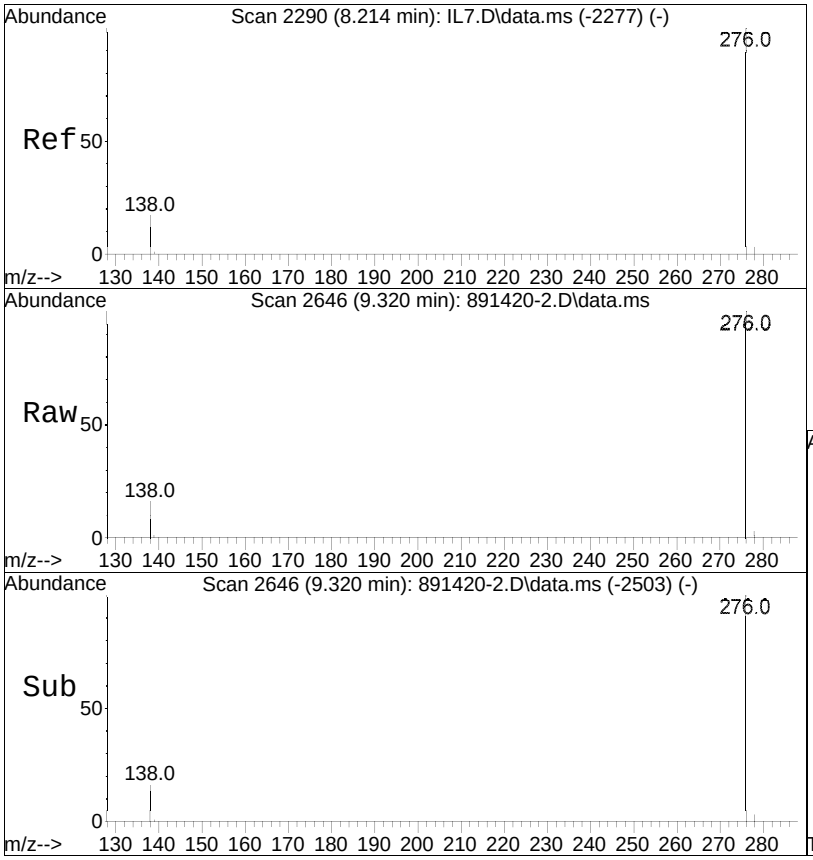


#39
Benzo[a]pyrene
Concen: 3401.17 ng/ml
RT: 7.853 min Scan# 2171
Delta R.T. -0.004 min
Lab File: 891420-2.D
Acq: 03 Mar 2024 04:57 pm

Tgt Ion:252 Resp: 11770

Ion	Ratio	Lower	Upper
252	100		
253	21.7	17.3	25.9

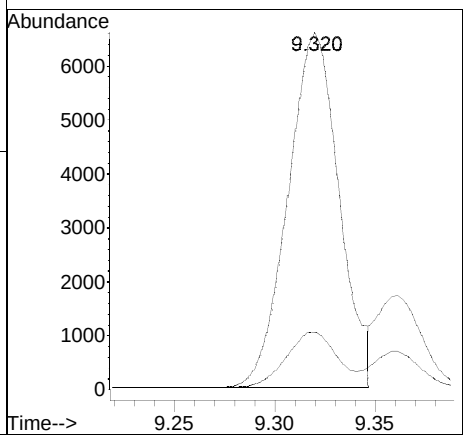


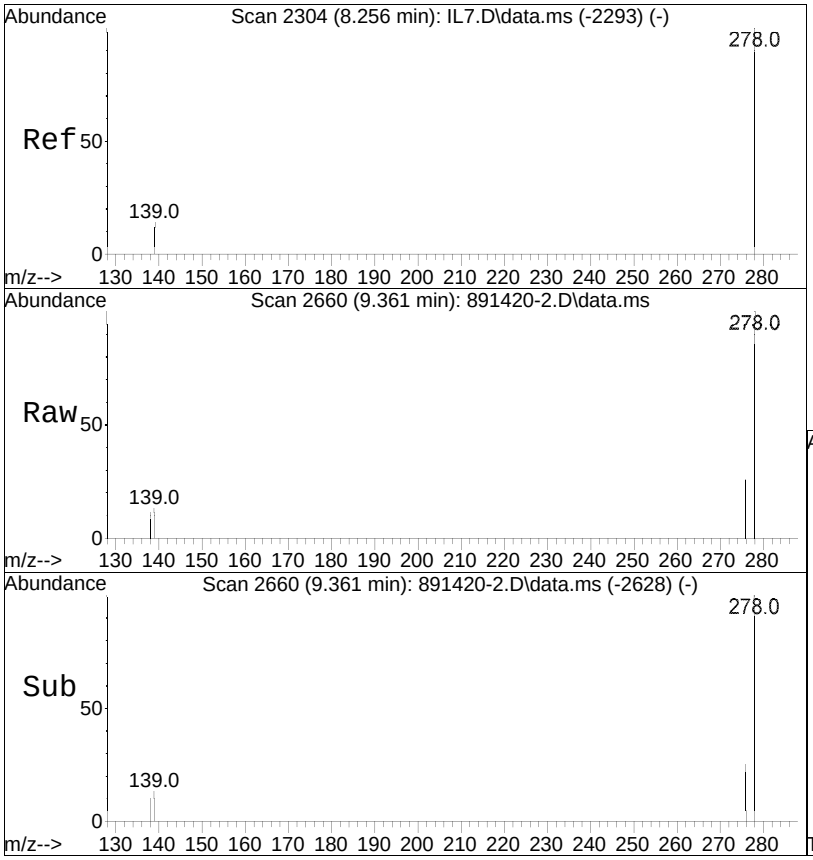


#40
Indeno[1,2,3-cd]pyrene
Concen: 3358.95 ng/ml
RT: 9.320 min Scan# 2646
Delta R.T. -0.007 min
Lab File: 891420-2.D
Acq: 03 Mar 2024 04:57 pm

Tgt Ion:276 Resp: 11623

Ion	Ratio	Lower	Upper
276	100		
138	15.6	13.4	20.2

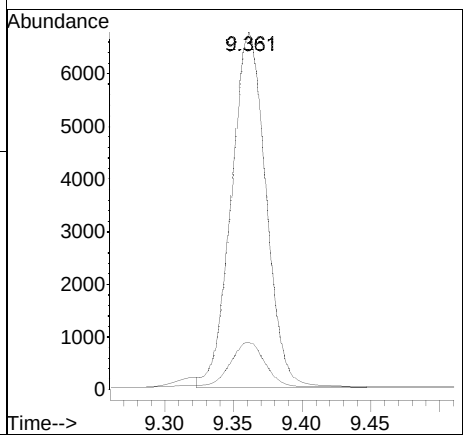


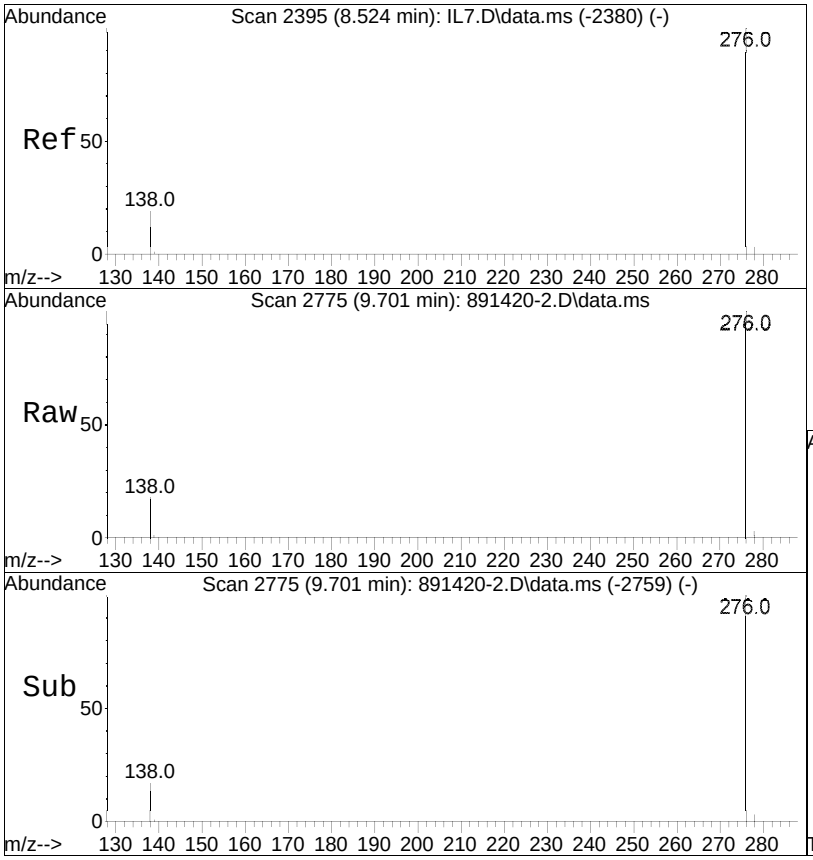


#41
Dibenzo[a,h]anthracene
Concen: 3519.41 ng/ml M6
RT: 9.361 min Scan# 2660
Delta R.T. -0.007 min
Lab File: 891420-2.D
Acq: 03 Mar 2024 04:57 pm

Tgt Ion:278 Resp: 11828

Ion	Ratio	Lower	Upper
278	100		
139	13.1	10.9	16.3

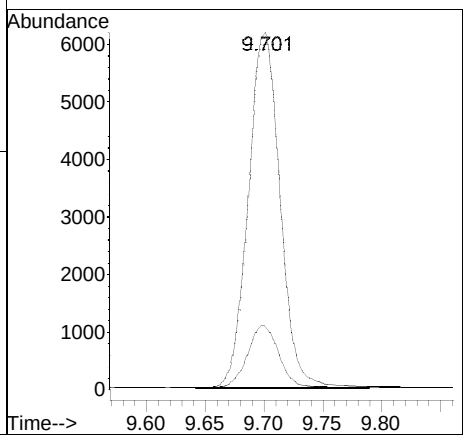




#42
Benzo[g,h,i]perylene
Concen: 3189.87 ng/ml M1
RT: 9.701 min Scan# 2775
Delta R.T. -0.004 min
Lab File: 891420-2.D
Acq: 03 Mar 2024 04:57 pm

Tgt Ion:276 Resp: 11473

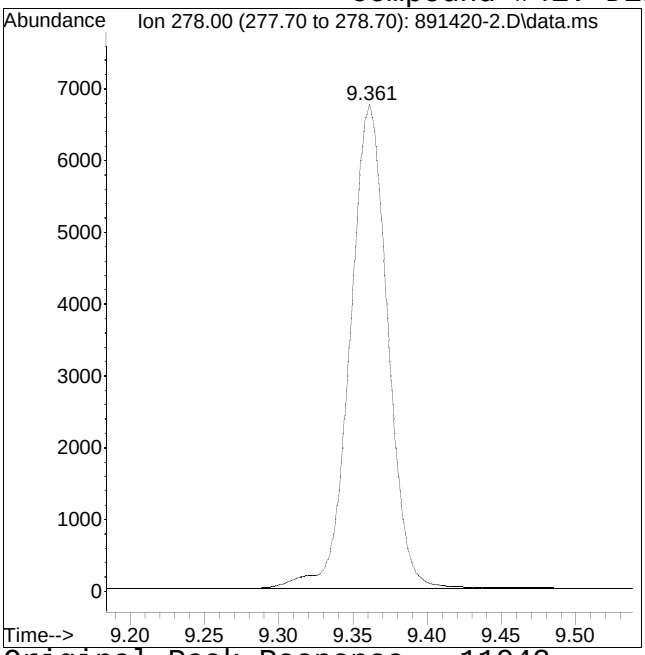
Ion	Ratio	Lower	Upper
276	100		
138	17.0	14.8	22.2



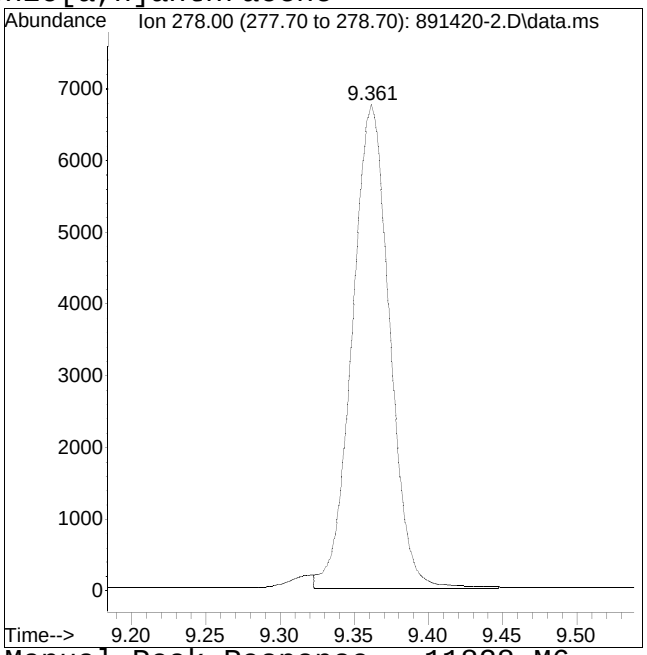
Manual Integration Report

Data Path : I:\8270SIM\SV128\240303\ QMethod : SIM-LVI_231211_sv128.M
Data File : 891420-2.D Operator : SV128:jjw
Date Inj'd : 3/3/2024 4:57 pm Instrument : SV128
Sample : WG1891420-2,32,,ah Quant Date : 3/3/2024 5:12 pm

Compound #41: Dibenzo[a,h]anthracene



Original Peak Response = 11942



Manual Peak Response = 11828 M6

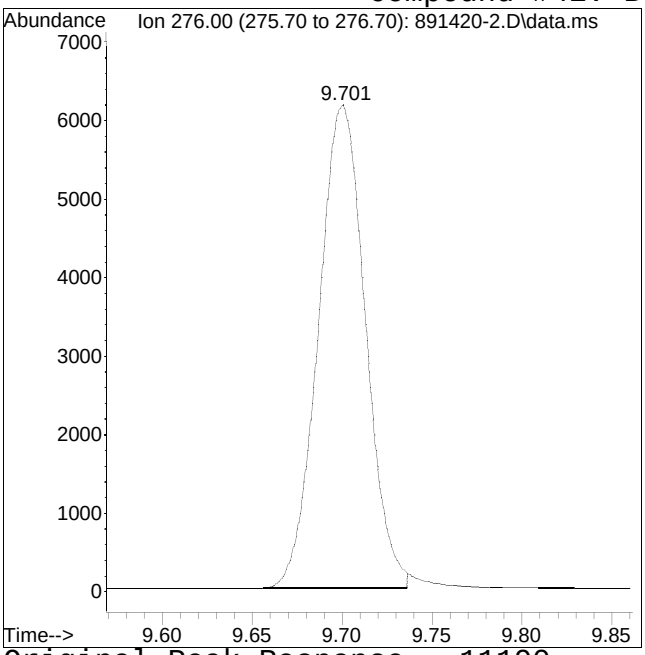
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

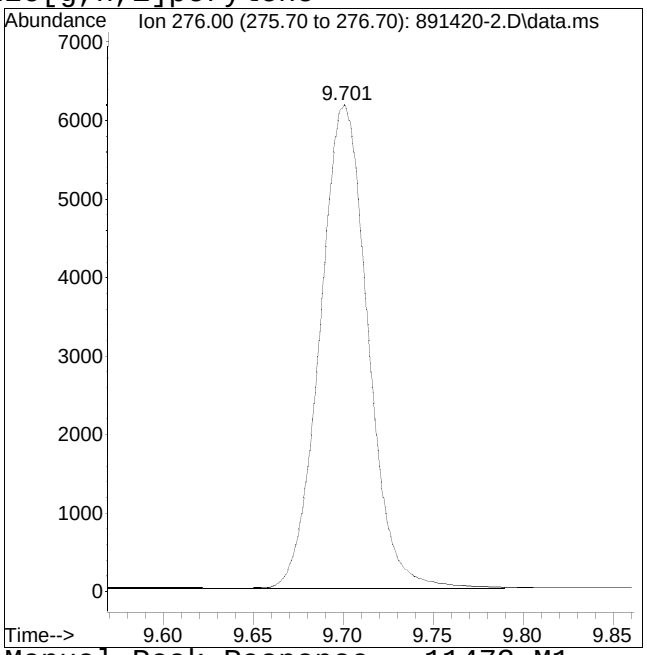
Manual Integration Report

Data Path : I:\8270SIM\SV128\240303\
Data File : 891420-2.D
Date Inj'd : 3/3/2024 4:57 pm
Sample : WG1891420-2,32,,ah

QMethod : SIM-LVI_231211_sv128.M
Operator : SV128:jjw
Instrument : SV128
Quant Date : 3/3/2024 5:12 pm

Compound #42: Benzo[g,h,i]perylene





Original Peak Response = 11190 Manual Peak Response = 11473 M1

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\240305LVI\
Data File : 892049-2.D
Acq On : 05 Mar 2024 02:38 pm
Operator : sv119:jjw
Sample : WG1892049-2,32,,RR,jjw
Misc : WG1892203,WG1892049,,ical20642
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Mar 05 14:59:20 2024
Quant Method : I:\8270sim\sv119\240305LVI\SIM-LVI_231207n_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Mar 05 06:52:34 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv119\240305LVI\ccv0305.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.152	152	42106	4000.000	ng/ml	0.01
Standard Area 1 = 36011			Recovery = 116.93%			
8) Naphthalene-d8	2.809	136	148630	4000.000	ng/ml	0.00
Standard Area 1 = 124401			Recovery = 119.48%			
17) Acenaphthene-d10	3.775	164	82479	4000.000	ng/ml	0.00
Standard Area 1 = 72135			Recovery = 114.34%			
22) Phenanthrene-d10	4.604	188	179739	4000.000	ng/ml	0.00
Standard Area 1 = 164519			Recovery = 109.25%			
31) Chrysene-d12	6.125	240	131931	4000.000	ng/ml	-0.02
Standard Area 1 = 159349			Recovery = 82.79%			
36) Perylene-d12	7.231	264	134237	4000.000	ng/ml	-0.02
Standard Area 1 = 166959			Recovery = 80.40%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.565	112	32763	2844.827	ng/ml	0.02
Spiked Amount 5000.000	Range 15 - 110		Recovery = 56.90%			
3) Phenol-d6	1.972	99	33445	2422.676	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 48.45%			
7) Nitrobenzene-d5	2.430	82	17399	1661.534	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 66.46%			
13) 2-Fluorobiphenyl	3.401	172	49754	1498.848	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 59.95%			
21) 2,4,6-Tribromophenol	4.214	330	18027	3964.419	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 79.29%			
30) 4-Terphenyl-d14	5.511	244	58950	1337.879	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 53.52%			
Target Compounds						Qvalue
6) Hexachloroethane	2.410	117	15349	2946.746	ng/ml	81
9) Naphthalene	2.820	128	106704	3006.605	ng/ml	100
10) Hexachlorobutadiene	2.894	225	24726	3235.105	ng/ml	100
11) 2-Methylnaphthalene	3.198	142	77780	2964.087	ng/ml	96
14) 2-Chloronaphthalene	3.464	162	83858	3000.088	ng/ml	98
16) Acenaphthylene	3.694	152	127434	3067.887	ng/ml	100
18) Acenaphthene	3.792	153	81586	3199.710	ng/ml	98
20) Fluorene	4.080	166	100577	3299.995	ng/ml	97
24) Hexachlorobenzene	4.393	284	39405	3391.223	ng/ml	95
25) Pentachlorophenol	4.503	266	14751	1994.991	ng/ml	98

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\240305LVI\
Data File : 892049-2.D
Acq On : 05 Mar 2024 02:38 pm
Operator : sv119:jjw
Sample : WG1892049-2,32,,RR,jjw
Misc : WG1892203,WG1892049,,ical20642
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Mar 05 14:59:20 2024
Quant Method : I:\8270sim\sv119\240305LVI\SIM-LVI_231207n_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Mar 05 06:52:34 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv119\240305LVI\ccv0305.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Phenanthrene	4.616	178	154906	3392.833	ng/ml	100
27) Anthracene	4.646	178	157567	3480.127	ng/ml	99
28) Fluoranthene	5.290	202	195479	3248.571	ng/ml	96
29) Pyrene	5.416	202	198730	3214.663	ng/ml	98
32) Benzo[a]anthracene	6.119	228	182188	4150.819	ng/ml	100
34) Chrysene	6.140	228	166313	3819.581	ng/ml	100
37) Benzo[b]fluoranthene	6.890	252	170101	3627.158	ng/ml	97
38) Benzo[k]fluoranthene	6.912	252	161407	3624.594	ng/ml	98
39) Benzo[a]pyrene	7.174	252	144857	3509.209	ng/ml	99
40) Indeno[1,2,3-cd]pyrene	8.360	276	175941	3921.709	ng/ml	100
41) Dibenzo[a,h]anthracene	8.394	278	150298M6	3600.758	ng/ml	
42) Benzo[g,h,i]perylene	8.681	276	162735	3566.035	ng/ml	99

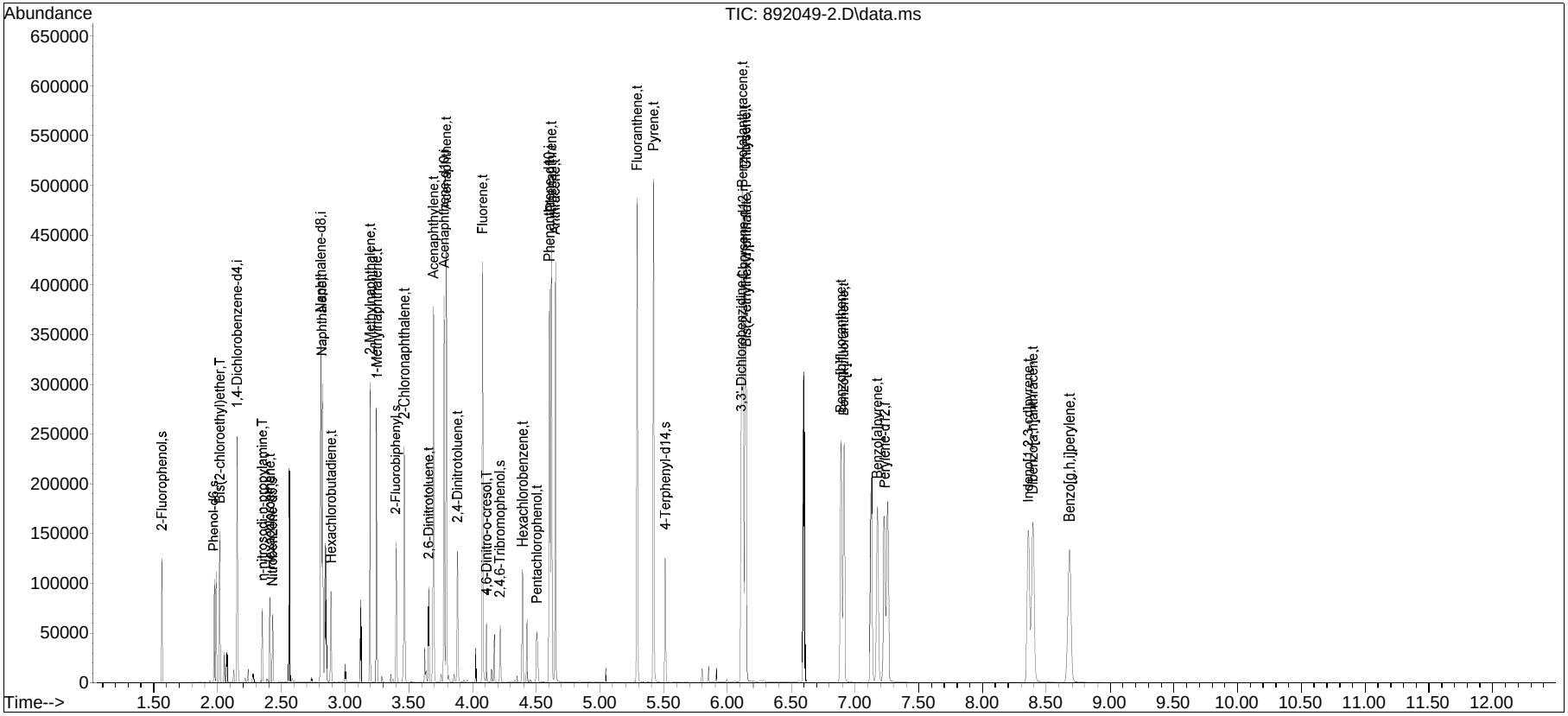
(#) = qualifier out of range (m) = manual integration (+) = signals summed

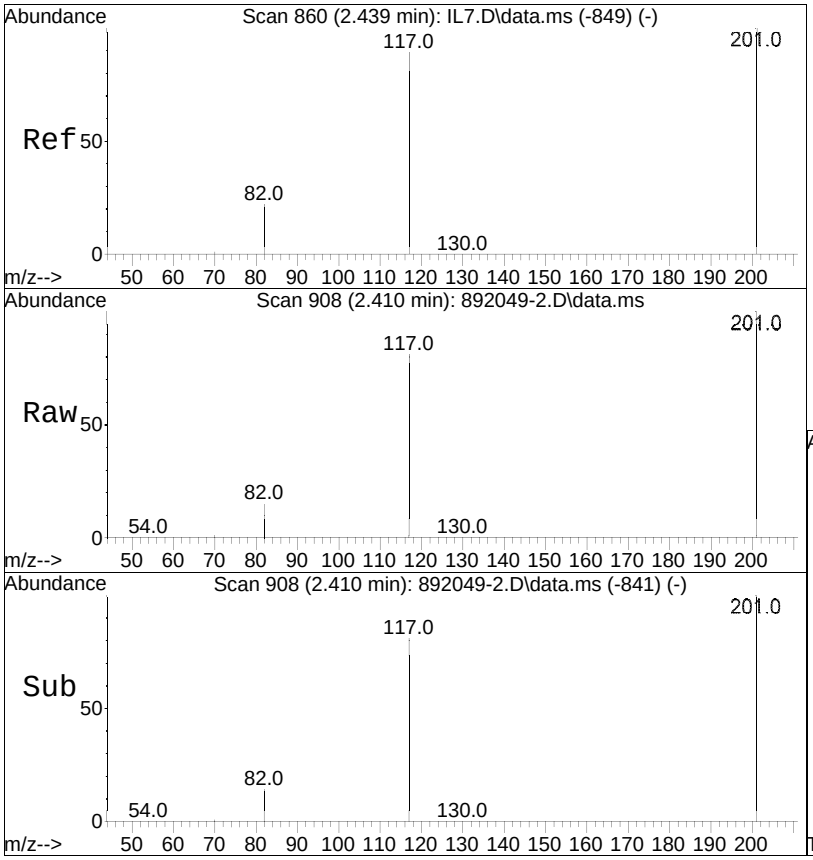
Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\240305LVI\
Data File : 892049-2.D
Acq On : 05 Mar 2024 02:38 pm
Operator : sv119:jjw
Sample : WG1892049-2,32,,RR,jjw
Misc : WG1892203,WG1892049,,ical20642
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Mar 05 14:59:20 2024
Quant Method : I:\8270sim\sv119\240305LVI\SIM-LVI_231207n_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Mar 05 06:52:34 2024
Response via : Initial Calibration

Sub List : DEFAULT - All compounds listed\ccv0305.D•

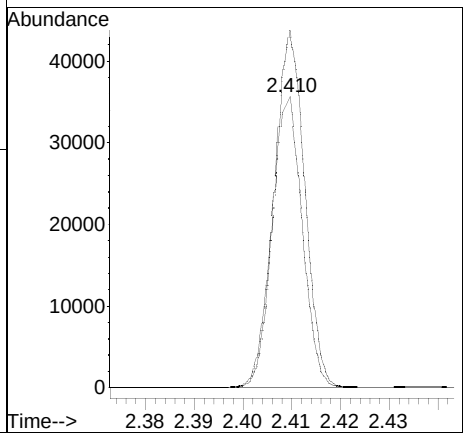


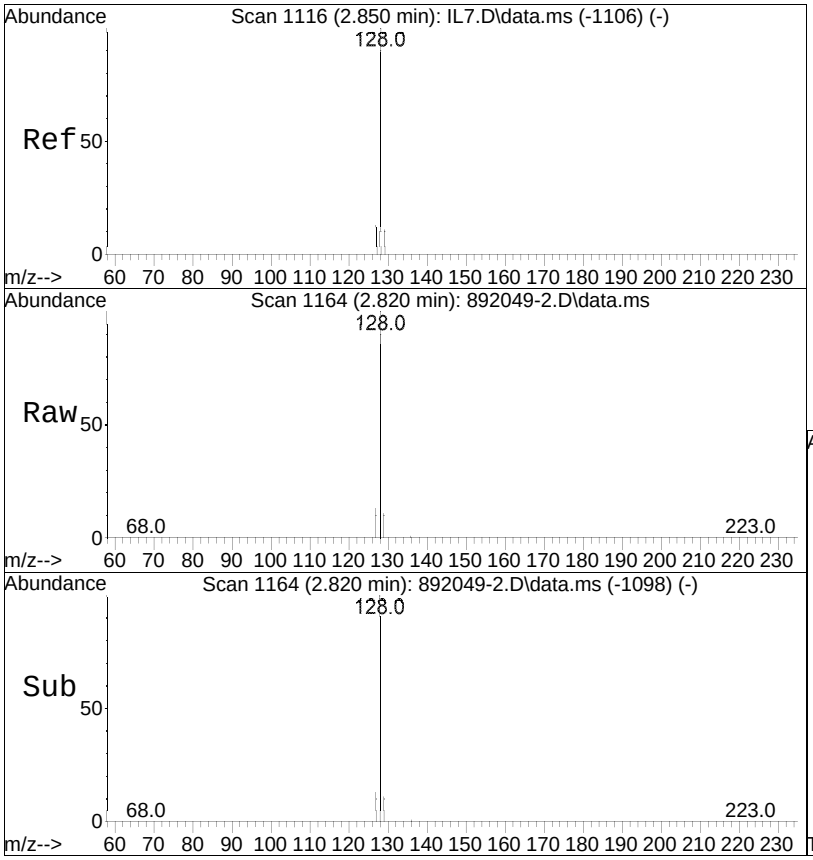


#6
Hexachloroethane
Concen: 2946.75 ng/ml
RT: 2.410 min Scan# 908
Delta R.T. 0.008 min
Lab File: 892049-2.D
Acq: 05 Mar 2024 02:38 pm

Tgt Ion:117 Resp: 15349

Ion	Ratio	Lower	Upper
117	100		
201	121.2	81.5	122.3

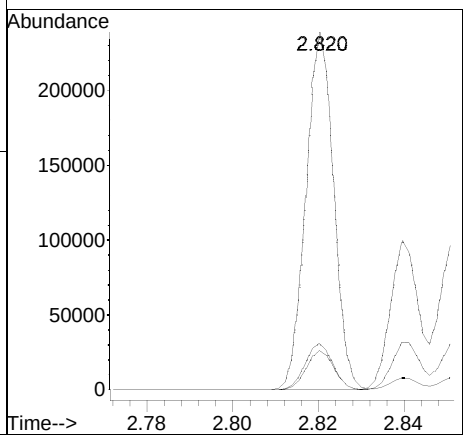


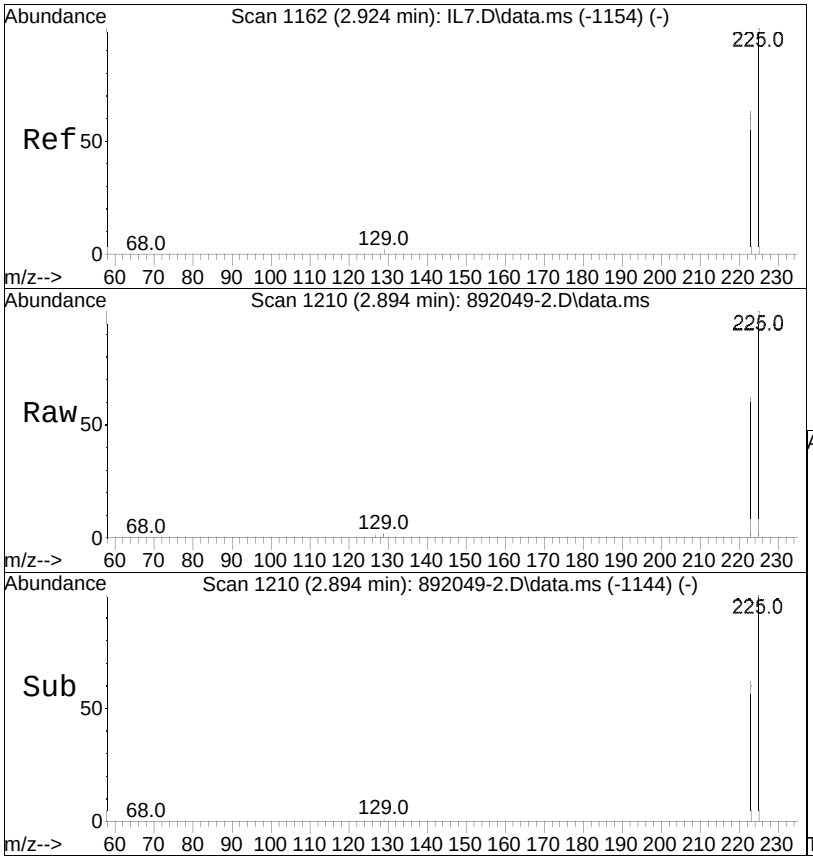


#9
Naphthalene
Concen: 3006.60 ng/ml
RT: 2.820 min Scan# 1164
Delta R.T. 0.007 min
Lab File: 892049-2.D
Acq: 05 Mar 2024 02:38 pm

Tgt Ion:128 Resp: 106704

Ion	Ratio	Lower	Upper
128	100		
129	11.0	8.8	13.2
127	13.0	10.6	15.8

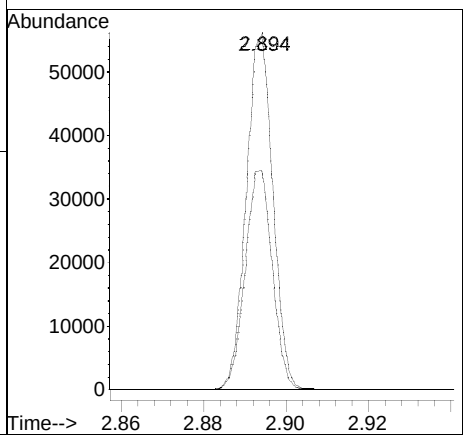


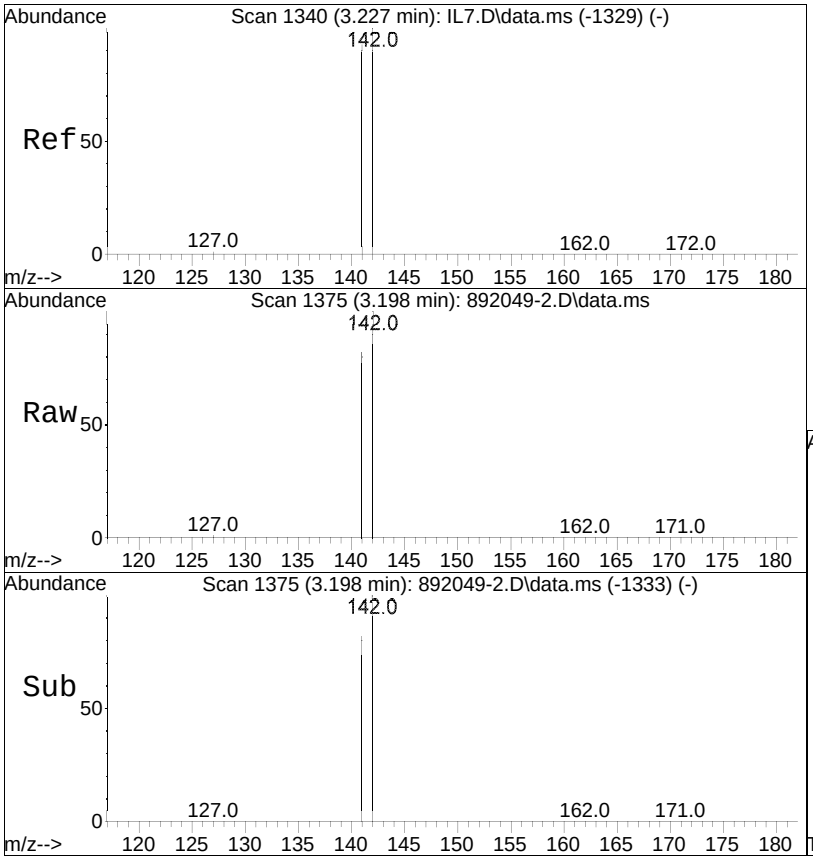


#10
Hexachlorobutadiene
Concen: 3235.10 ng/ml
RT: 2.894 min Scan# 1210
Delta R.T. 0.007 min
Lab File: 892049-2.D
Acq: 05 Mar 2024 02:38 pm

Tgt Ion:225 Resp: 24726

Ion	Ratio	Lower	Upper
225	100		
223	62.8	50.1	75.1

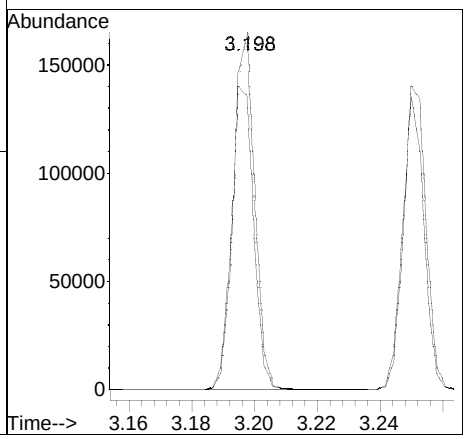


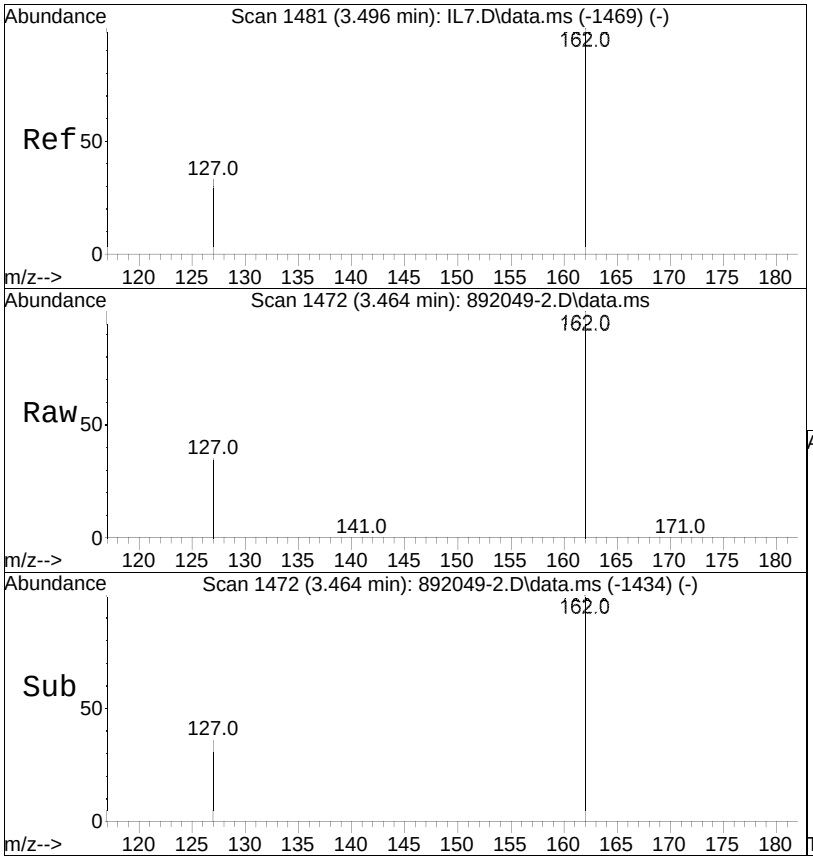


#11
2-Methylnaphthalene
Concen: 2964.09 ng/ml
RT: 3.198 min Scan# 1375
Delta R.T. 0.006 min
Lab File: 892049-2.D
Acq: 05 Mar 2024 02:38 pm

Tgt Ion:142 Resp: 77780

Ion	Ratio	Lower	Upper
142	100		
141	88.9	74.1	111.1

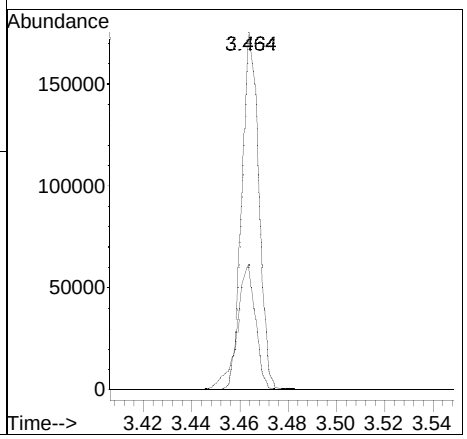


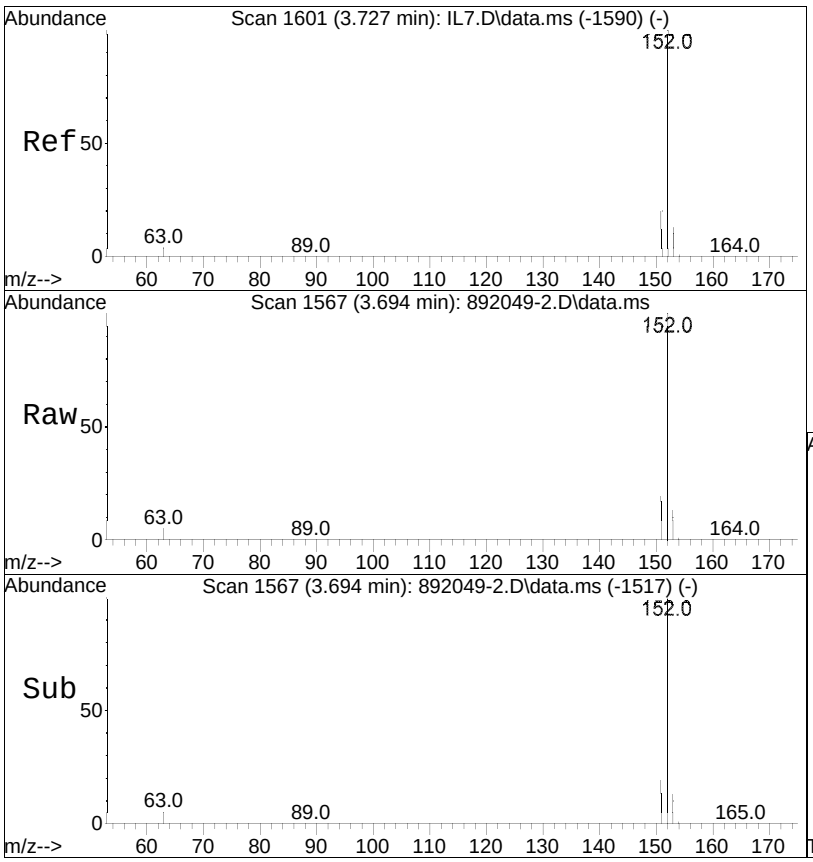


#14
2-Chloronaphthalene
Concen: 3000.09 ng/ml
RT: 3.464 min Scan# 1472
Delta R.T. 0.003 min
Lab File: 892049-2.D
Acq: 05 Mar 2024 02:38 pm

Tgt Ion:162 Resp: 83858

Ion	Ratio	Lower	Upper
162	100		
127	38.6	29.7	44.5

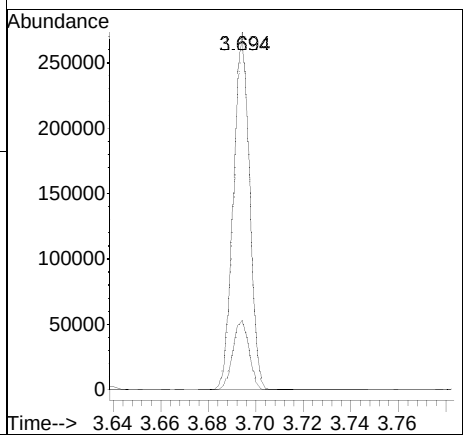


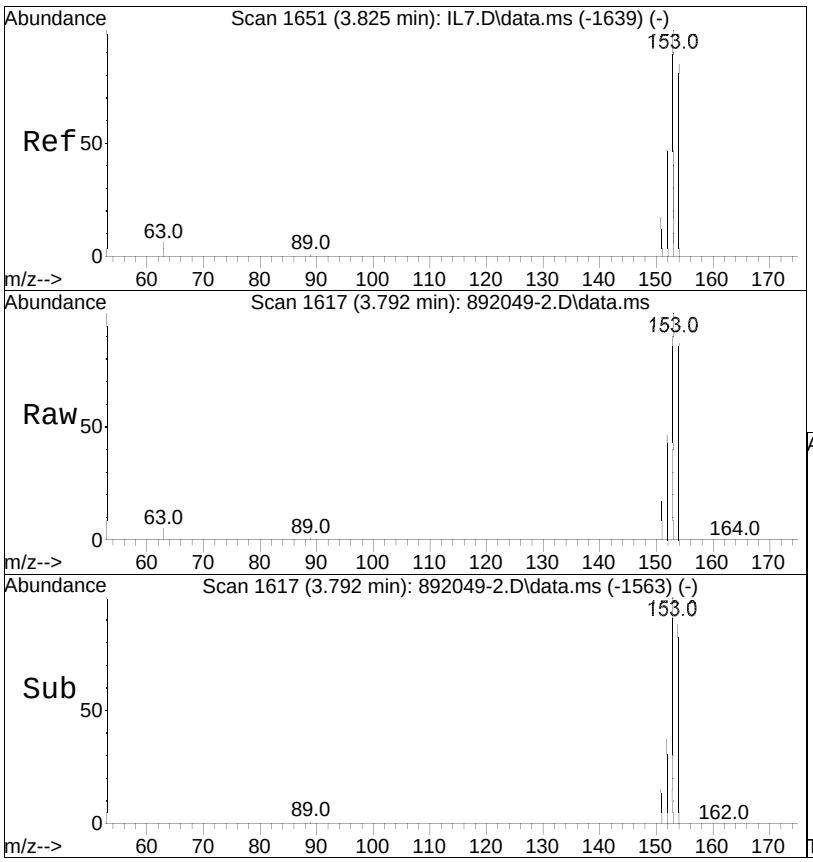


#16
Acenaphthylene
Concen: 3067.89 ng/ml
RT: 3.694 min Scan# 1567
Delta R.T. 0.006 min
Lab File: 892049-2.D
Acq: 05 Mar 2024 02:38 pm

Tgt Ion:152 Resp: 127434

Ion	Ratio	Lower	Upper
152	100		
151	19.8	16.0	24.0

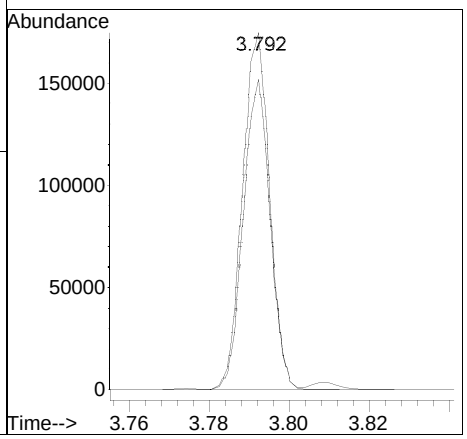


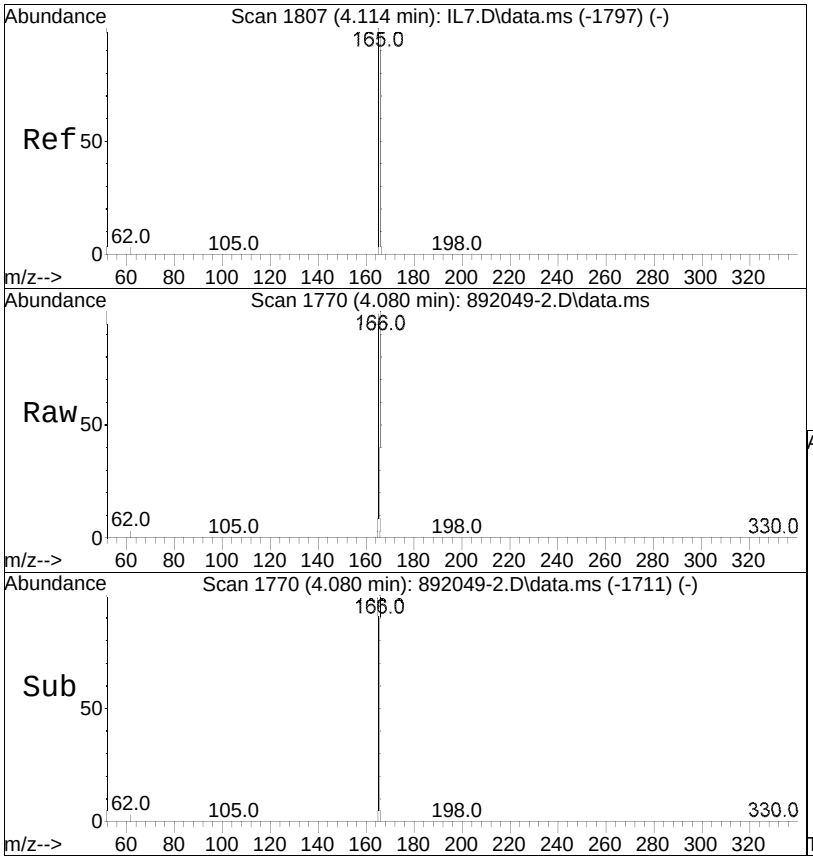


#18
Acenaphthene
Concen: 3199.71 ng/ml
RT: 3.792 min Scan# 1617
Delta R.T. 0.006 min
Lab File: 892049-2.D
Acq: 05 Mar 2024 02:38 pm

Tgt Ion:153 Resp: 81586

Ion	Ratio	Lower	Upper
153	100		
154	85.7	66.9	100.3

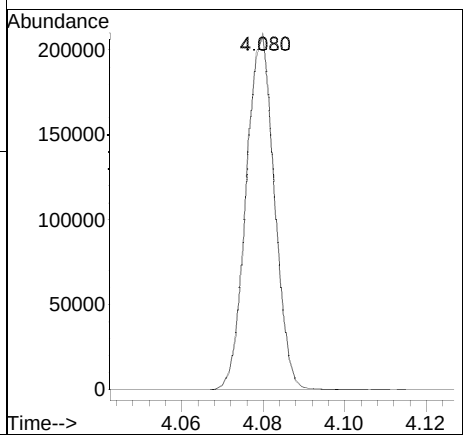


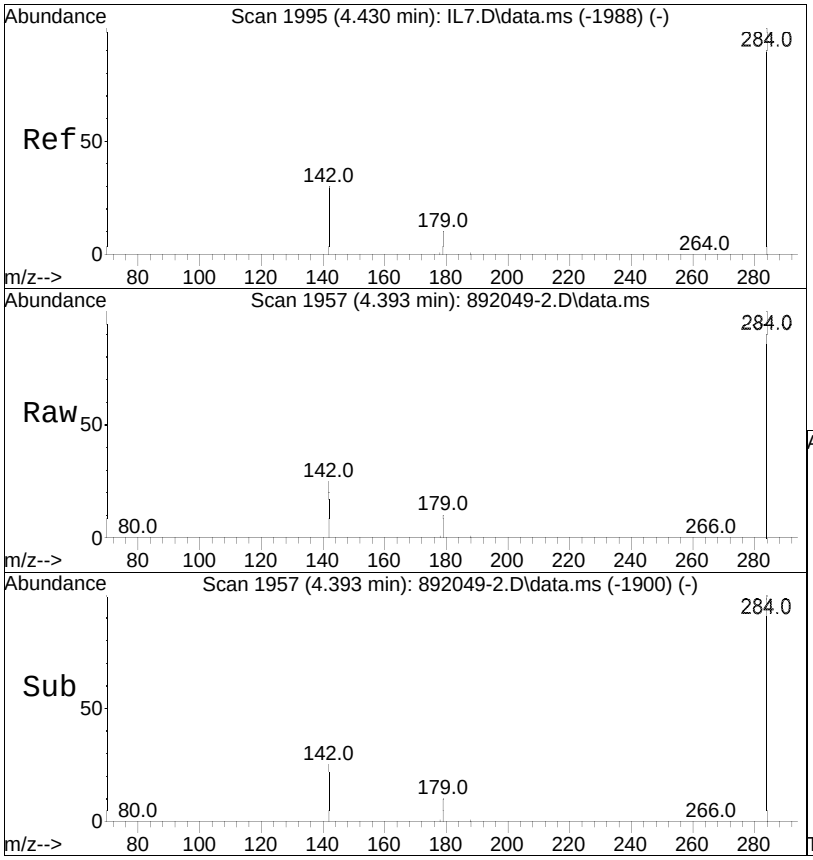


#20
Fluorene
Concen: 3300.00 ng/ml
RT: 4.080 min Scan# 1770
Delta R.T. 0.003 min
Lab File: 892049-2.D
Acq: 05 Mar 2024 02:38 pm

Tgt Ion:166 Resp: 100577

Ion	Ratio	Lower	Upper
166	100		
165	100.2	82.9	124.3

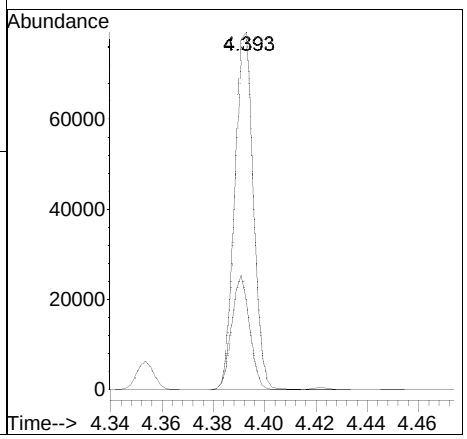


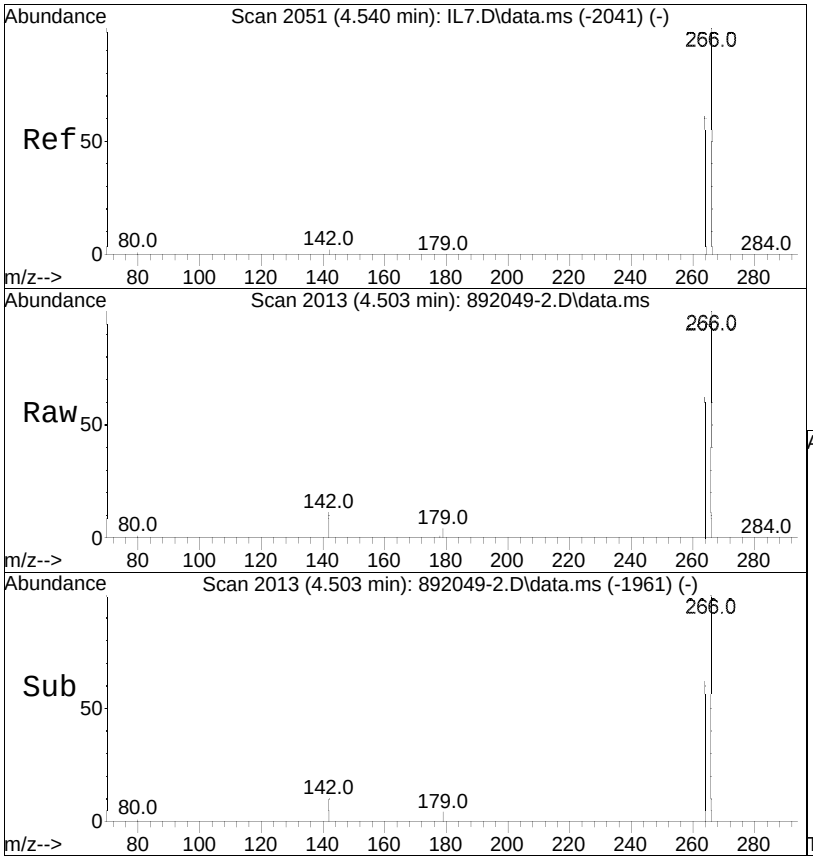


#24
Hexachlorobenzene
Concen: 3391.22 ng/ml
RT: 4.393 min Scan# 1957
Delta R.T. 0.004 min
Lab File: 892049-2.D
Acq: 05 Mar 2024 02:38 pm

Tgt Ion:284 Resp: 39405

Ion	Ratio	Lower	Upper
284	100		
142	30.9	26.9	40.3

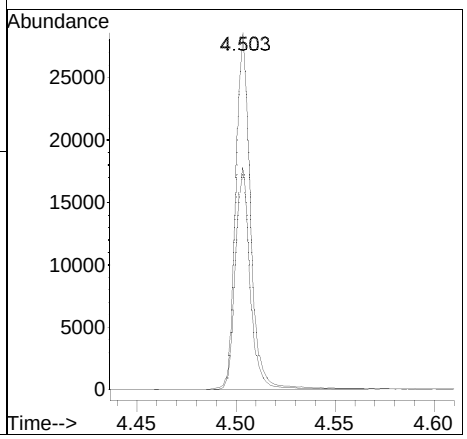


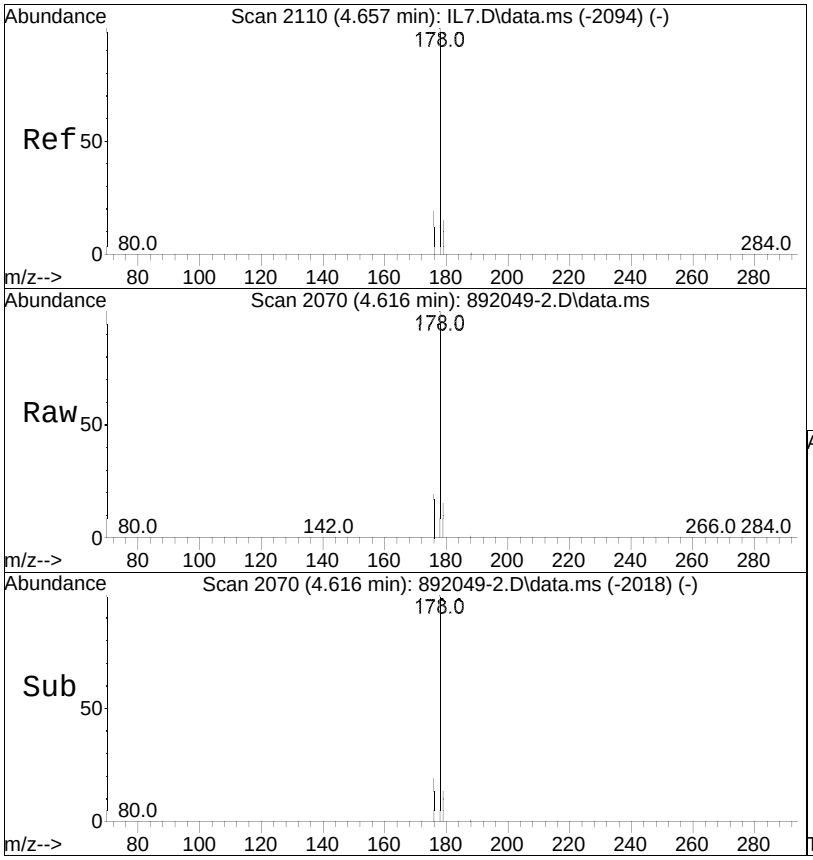


#25
Pentachlorophenol
Concen: 1994.99 ng/ml
RT: 4.503 min Scan# 2013
Delta R.T. 0.002 min
Lab File: 892049-2.D
Acq: 05 Mar 2024 02:38 pm

Tgt Ion:266 Resp: 14751

Ion	Ratio	Lower	Upper
266	100		
264	61.9	50.7	76.1

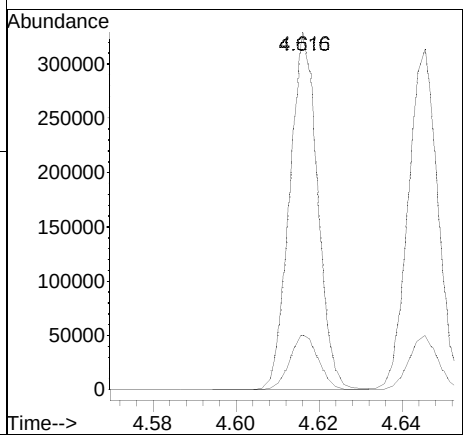


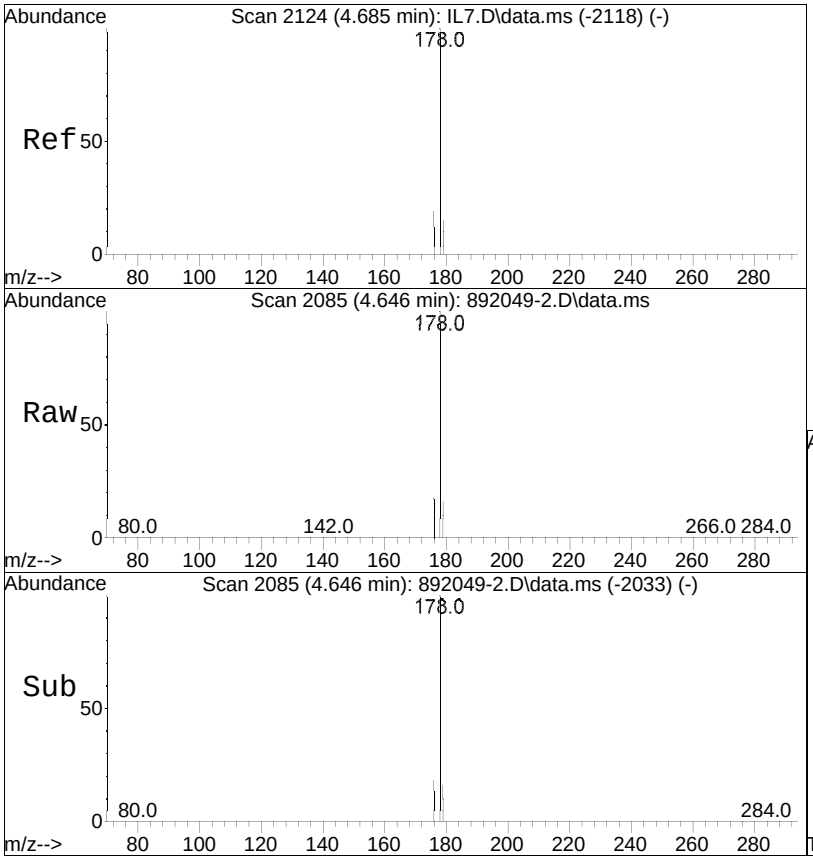


#26
Phenanthrene
Concen: 3392.83 ng/ml
RT: 4.616 min Scan# 2070
Delta R.T. 0.002 min
Lab File: 892049-2.D
Acq: 05 Mar 2024 02:38 pm

Tgt Ion:178 Resp: 154906

Ion	Ratio	Lower	Upper
178	100		
179	15.6	12.3	18.5

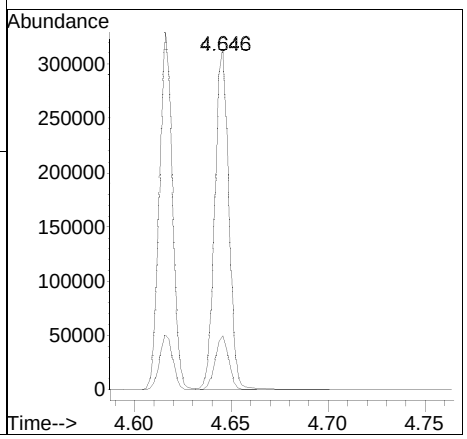


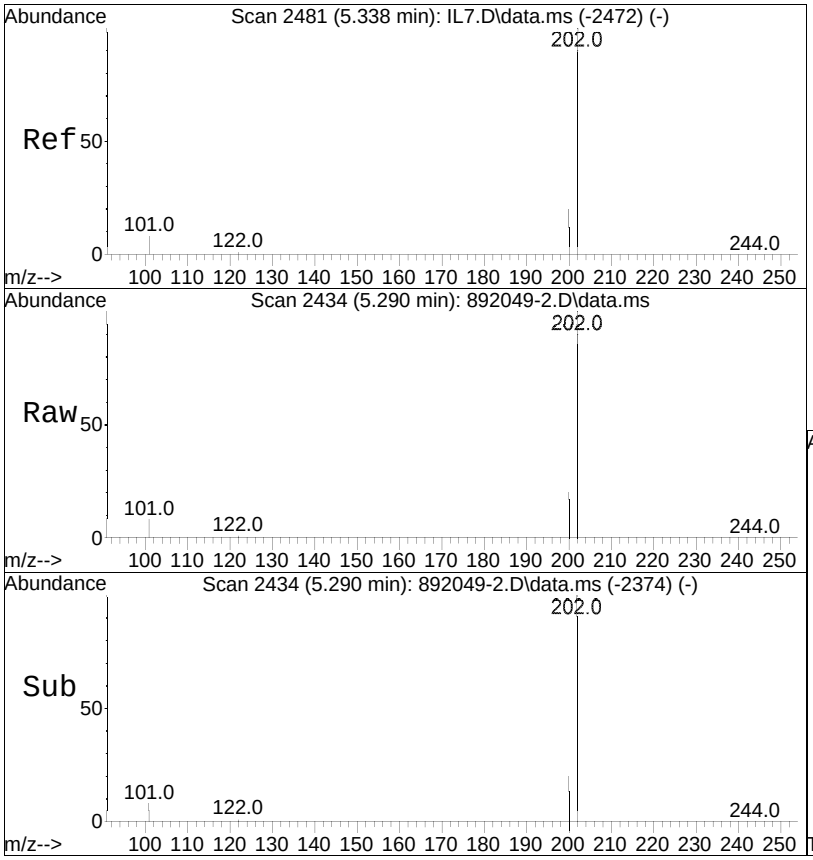


#27
Anthracene
Concen: 3480.13 ng/ml
RT: 4.646 min Scan# 2085
Delta R.T. 0.002 min
Lab File: 892049-2.D
Acq: 05 Mar 2024 02:38 pm

Tgt Ion:178 Resp: 157567

Ion	Ratio	Lower	Upper
178	100		
179	15.5	12.2	18.4

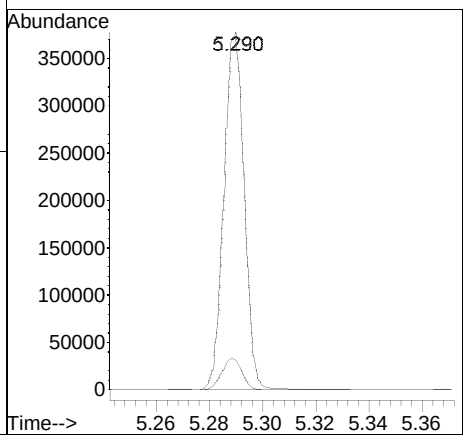


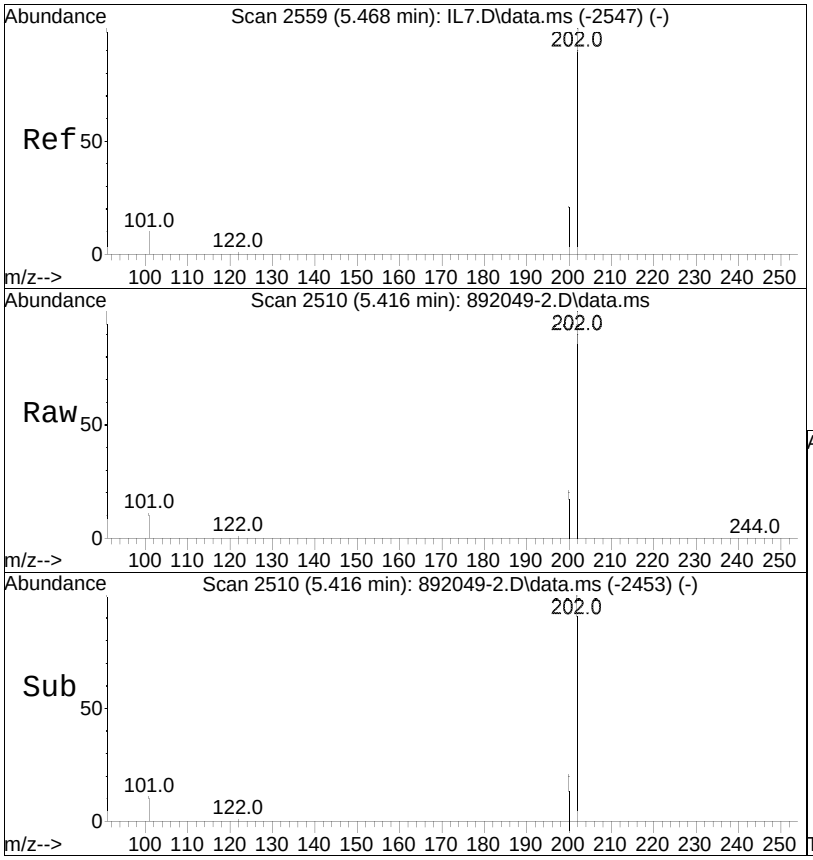


#28
Fluoranthene
Concen: 3248.57 ng/ml
RT: 5.290 min Scan# 2434
Delta R.T. 0.000 min
Lab File: 892049-2.D
Acq: 05 Mar 2024 02:38 pm

Tgt Ion:202 Resp: 195479

Ion	Ratio	Lower	Upper
202	100		
101	8.8	8.3	12.5

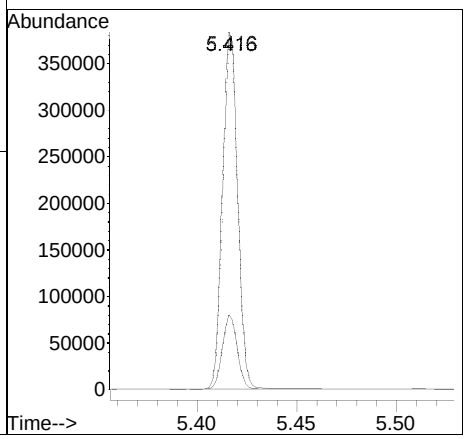


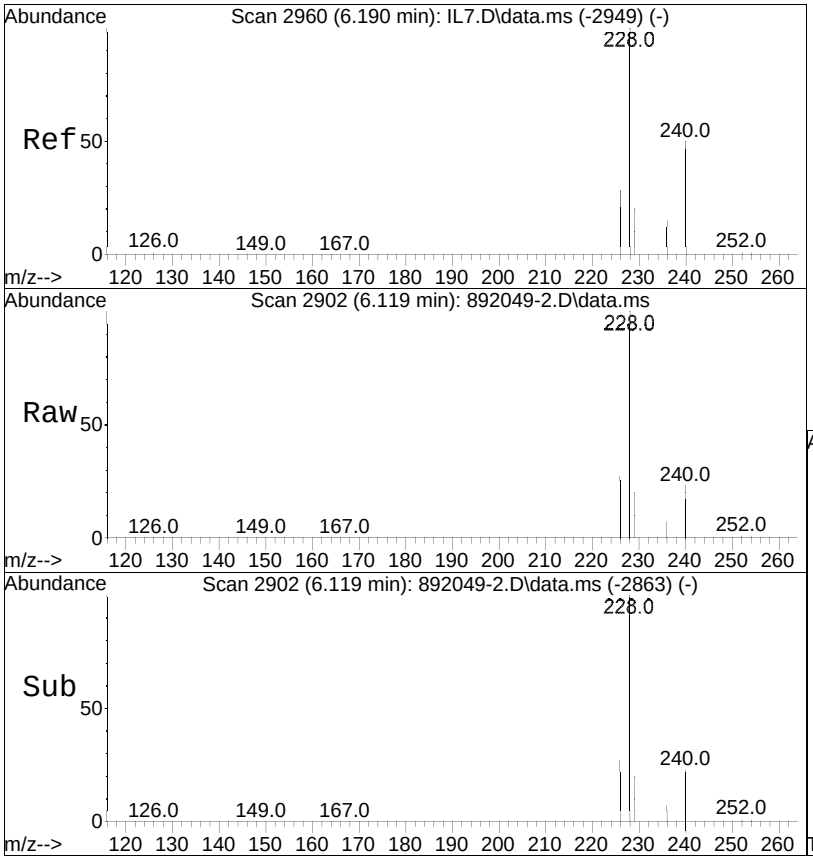


#29
Pyrene
Concen: 3214.66 ng/ml
RT: 5.416 min Scan# 2510
Delta R.T. -0.005 min
Lab File: 892049-2.D
Acq: 05 Mar 2024 02:38 pm

Tgt Ion:202 Resp: 198730

Ion	Ratio	Lower	Upper
202	100		
200	20.8	17.3	25.9

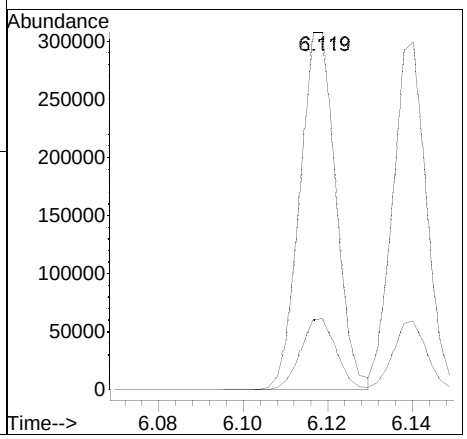


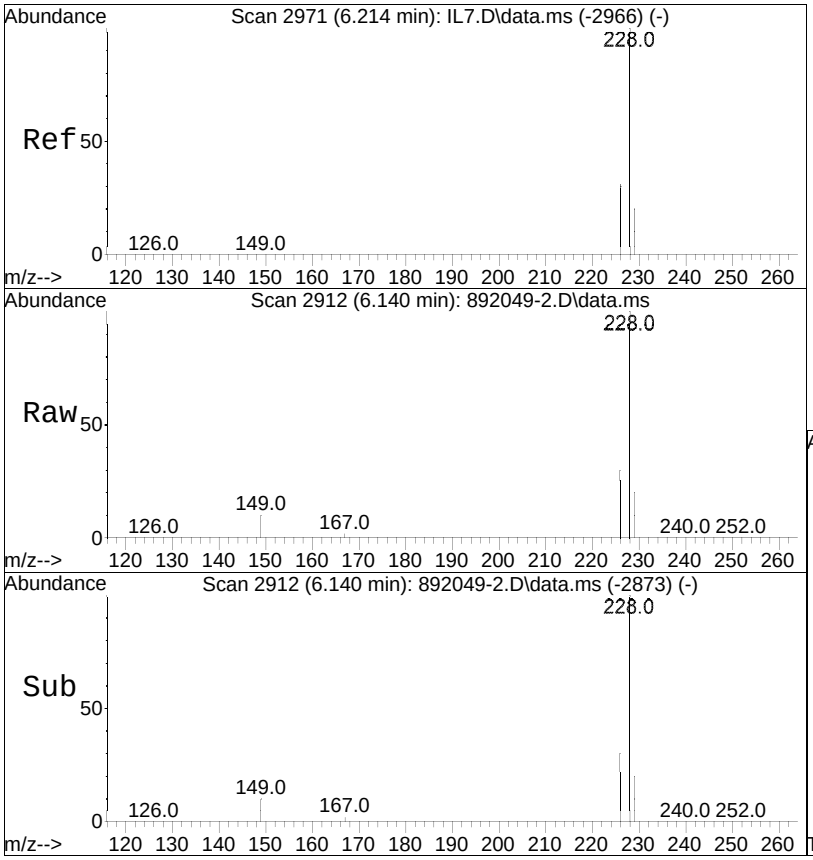


#32
Benzo[a]anthracene
Concen: 4150.82 ng/ml
RT: 6.119 min Scan# 2902
Delta R.T. -0.017 min
Lab File: 892049-2.D
Acq: 05 Mar 2024 02:38 pm

Tgt Ion:228 Resp: 182188

Ion	Ratio	Lower	Upper
228	100		
229	19.7	15.6	23.4

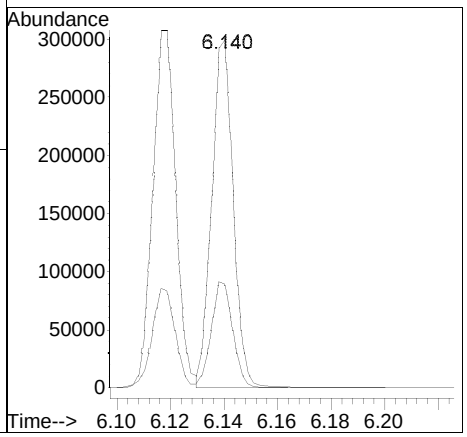


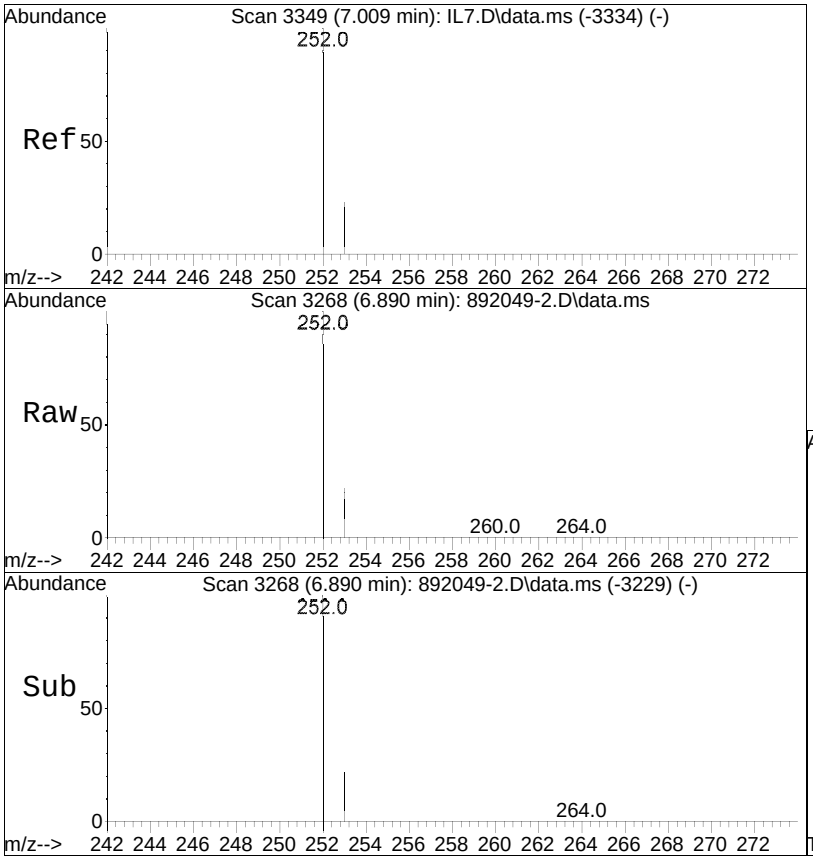


#34
Chrysene
Concen: 3819.58 ng/ml
RT: 6.140 min Scan# 2912
Delta R.T. -0.017 min
Lab File: 892049-2.D
Acq: 05 Mar 2024 02:38 pm

Tgt Ion:228 Resp: 166313

Ion	Ratio	Lower	Upper
228	100		
226	30.7	24.5	36.7

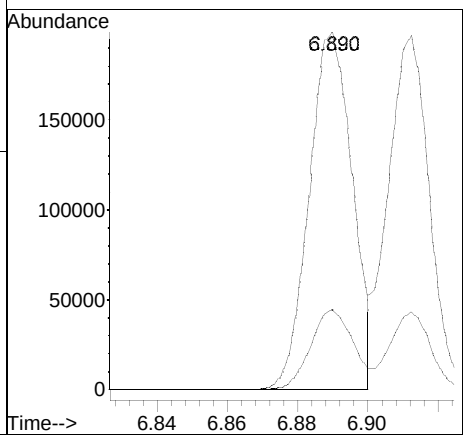


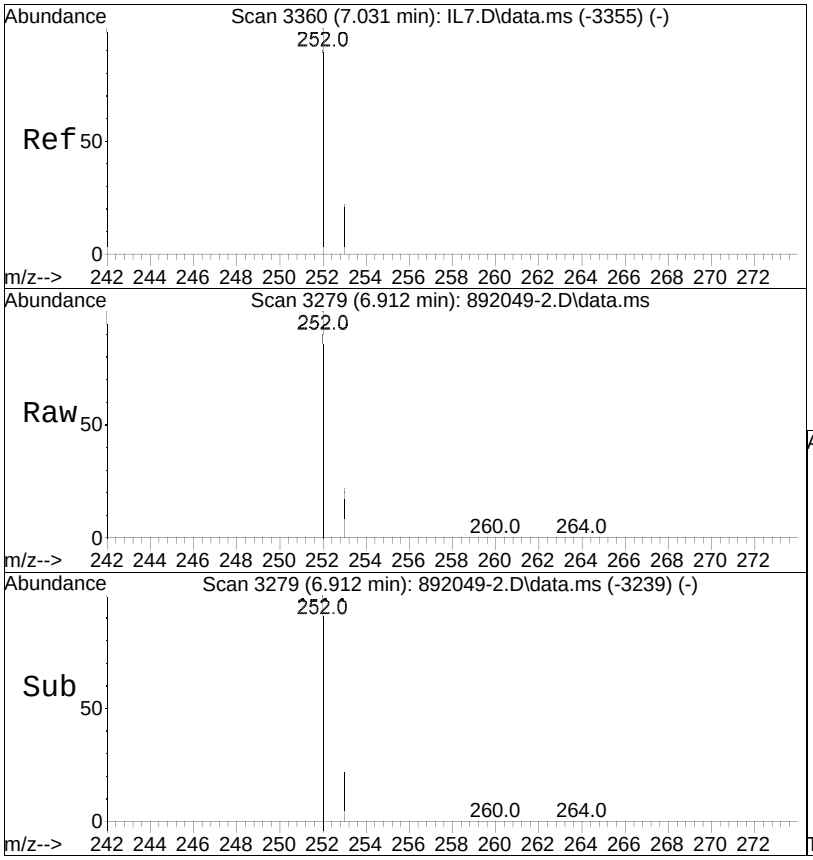


#37
Benzo[b]fluoranthene
Concen: 3627.16 ng/ml
RT: 6.890 min Scan# 3268
Delta R.T. -0.020 min
Lab File: 892049-2.D
Acq: 05 Mar 2024 02:38 pm

Tgt Ion:252 Resp: 170101

Ion	Ratio	Lower	Upper
252	100		
253	22.8	17.3	25.9

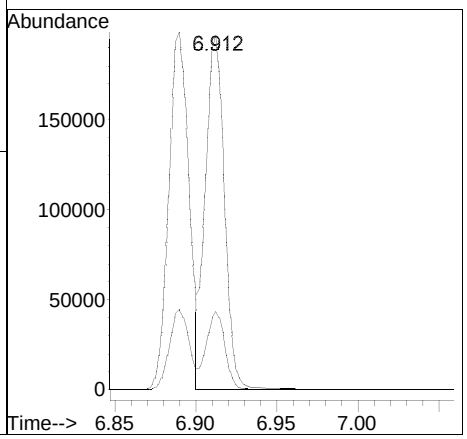


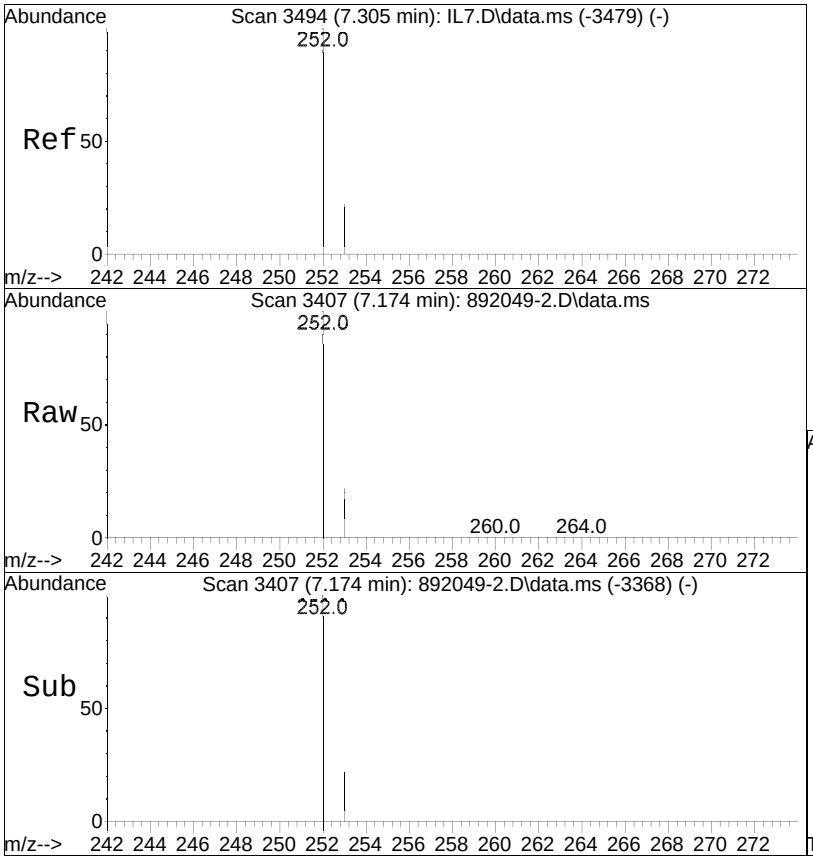


#38
Benzo[k]fluoranthene
Concen: 3624.59 ng/ml
RT: 6.912 min Scan# 3279
Delta R.T. -0.018 min
Lab File: 892049-2.D
Acq: 05 Mar 2024 02:38 pm

Tgt Ion:252 Resp: 161407

Ion	Ratio	Lower	Upper
252	100		
253	21.0	17.4	26.2

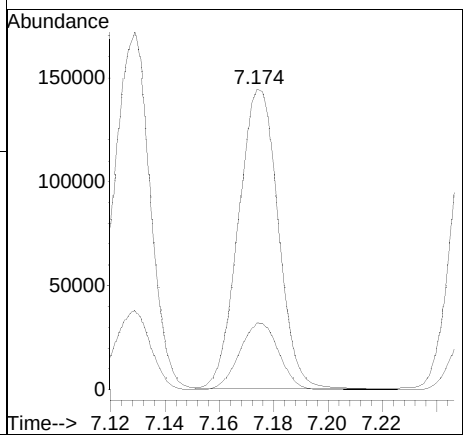


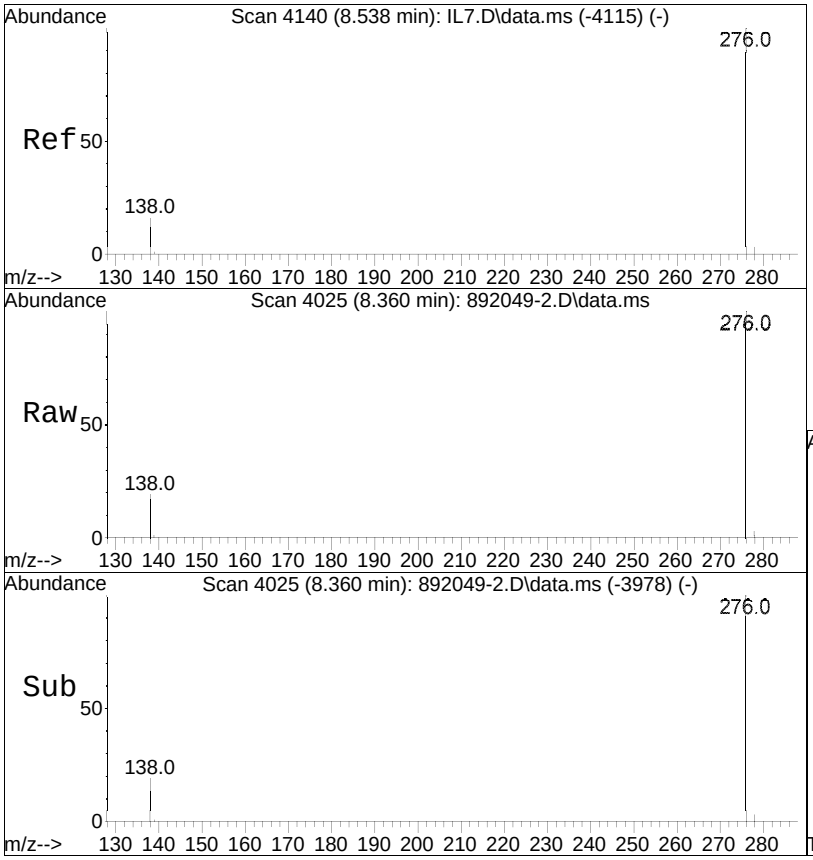


#39
Benzo[a]pyrene
Concen: 3509.21 ng/ml
RT: 7.174 min Scan# 3407
Delta R.T. -0.020 min
Lab File: 892049-2.D
Acq: 05 Mar 2024 02:38 pm

Tgt Ion:252 Resp: 144857

Ion	Ratio	Lower	Upper
252	100		
253	22.0	17.4	26.0

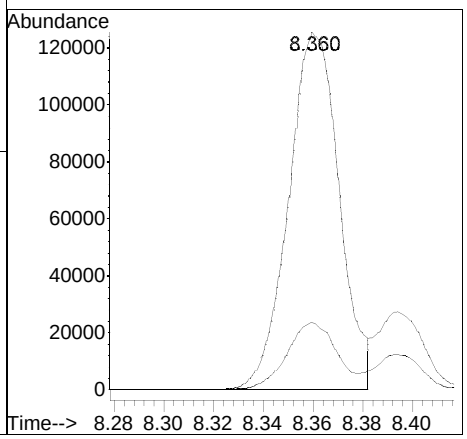


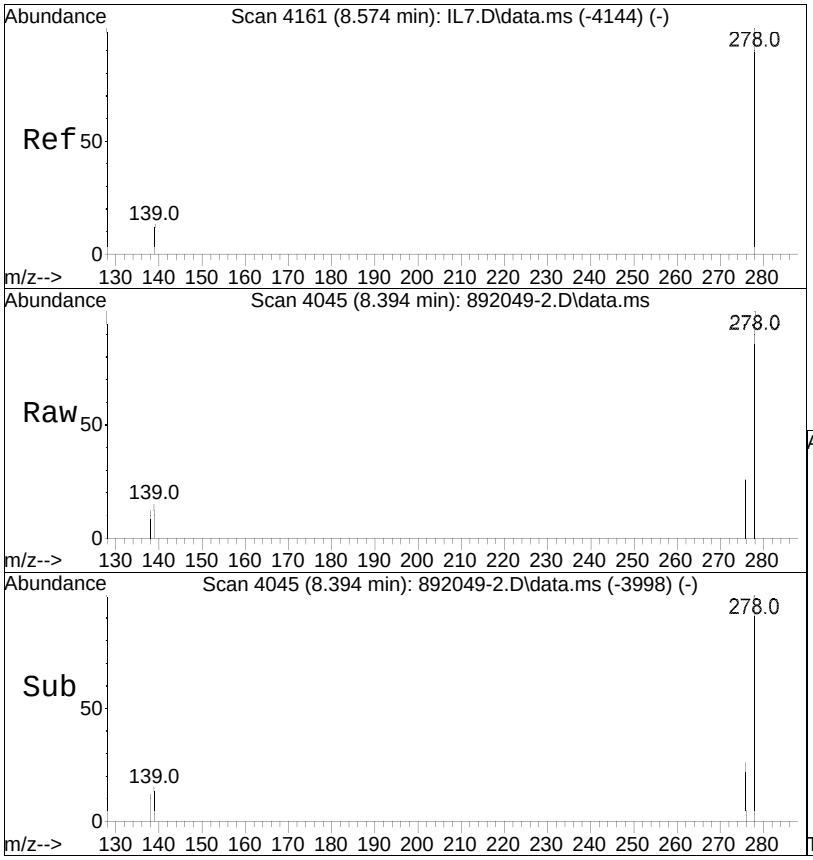


#40
Indeno[1,2,3-cd]pyrene
Concen: 3921.71 ng/ml
RT: 8.360 min Scan# 4025
Delta R.T. -0.019 min
Lab File: 892049-2.D
Acq: 05 Mar 2024 02:38 pm

Tgt Ion:276 Resp: 175941

Ion	Ratio	Lower	Upper
276	100		
138	18.7	14.8	22.2

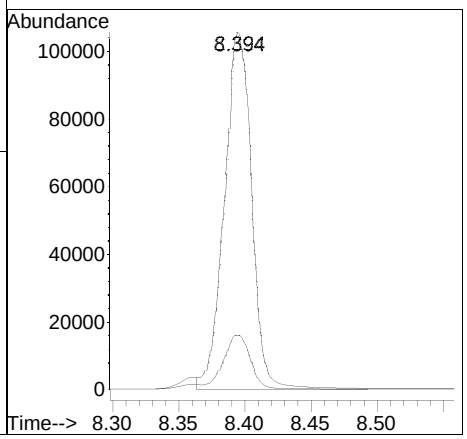


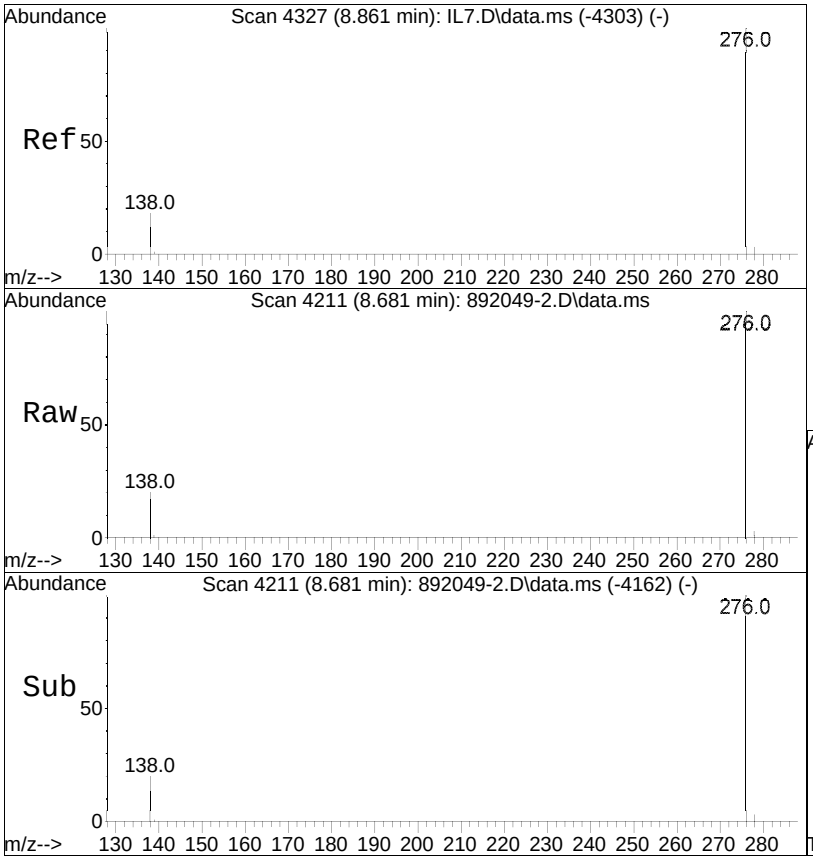


#41
Dibenzo[a,h]anthracene
Concen: 3600.76 ng/ml M6
RT: 8.394 min Scan# 4045
Delta R.T. -0.019 min
Lab File: 892049-2.D
Acq: 05 Mar 2024 02:38 pm

Tgt Ion:278 Resp: 150298

Ion	Ratio	Lower	Upper
278	100		
139	15.0	12.2	18.4

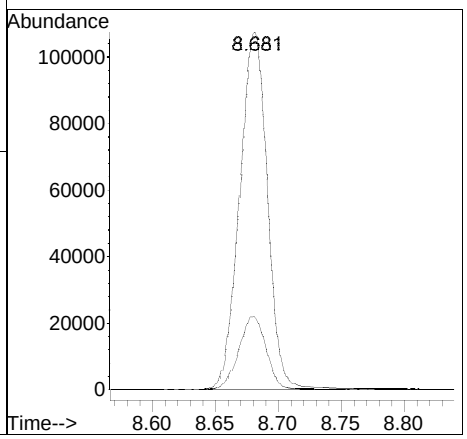




#42
Benzo[g,h,i]perylene
Concen: 3566.04 ng/ml
RT: 8.681 min Scan# 4211
Delta R.T. -0.016 min
Lab File: 892049-2.D
Acq: 05 Mar 2024 02:38 pm

Tgt Ion:276 Resp: 162735

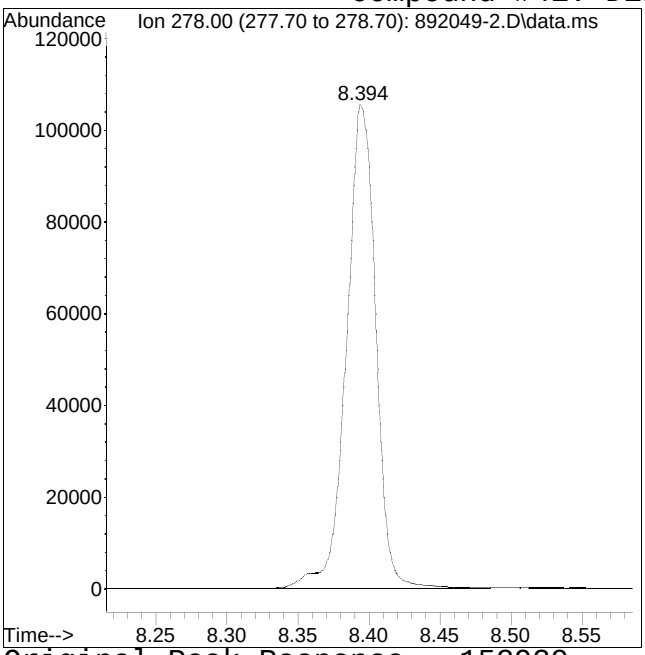
Ion	Ratio	Lower	Upper
276	100		
138	20.4	16.8	25.2



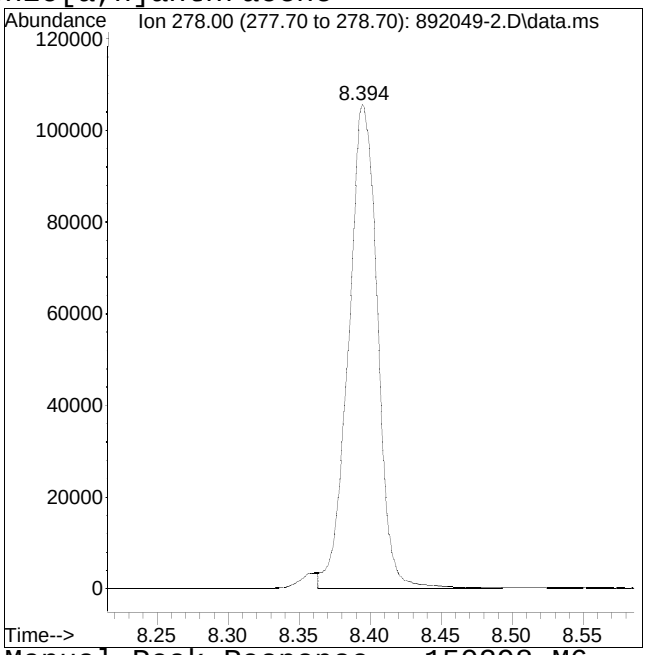
Manual Integration Report

Data Path : I:\8270SIM\sv119\240305LVIQMethod : SIM-LVI_231207n_sv119.M
Data File : 892049-2.D Operator : sv119:jjw
Date Inj'd : 3/5/2024 2:38 pm Instrument : SV119
Sample : WG1892049-2,32,,RR,jjw Quant Date : 3/5/2024 2:54 pm

Compound #41: Dibenzo[a,h]anthracene



Original Peak Response = 152929



Manual Peak Response = 150298 M6

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\240306LVI\
Data File : 892407-2.D
Acq On : 06 Mar 2024 08:00 am
Operator : sv119:jjw
Sample : WG1892407-2,32,,ah
Misc : WG1892736,WG1892407,ical20642
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 06 08:14:35 2024
Quant Method : I:\8270sim\sv119\240306LVI\SIM-LVI_231207n_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Mar 06 07:14:42 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv119\240306LVI\ccv0306.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.129	152	45046	4000.000	ng/ml	0.00
Standard Area 1 = 46268			Recovery = 97.36%			
8) Naphthalene-d8	2.791	136	166318	4000.000	ng/ml	0.00
Standard Area 1 = 165599			Recovery = 100.43%			
17) Acenaphthene-d10	3.759	164	95229	4000.000	ng/ml	0.00
Standard Area 1 = 97417			Recovery = 97.75%			
22) Phenanthrene-d10	4.590	188	220430	4000.000	ng/ml	0.00
Standard Area 1 = 225040			Recovery = 97.95%			
31) Chrysene-d12	6.172	240	171943	4000.000	ng/ml	0.00
Standard Area 1 = 198834			Recovery = 86.48%			
36) Perylene-d12	7.292	264	162531	4000.000	ng/ml	0.00
Standard Area 1 = 192010			Recovery = 84.65%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.539	112	36400	2954.346	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 59.09%			
3) Phenol-d6	1.949	99	38649	2616.918	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 52.34%			
7) Nitrobenzene-d5	2.410	82	19066	1701.893	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 68.08%			
13) 2-Fluorobiphenyl	3.387	172	51025	1373.662	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 54.95%			
21) 2,4,6-Tribromophenol	4.200	330	18729	3567.342	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 71.35%			
30) 4-Terphenyl-d14	5.522	244	63735	1179.458	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 47.18%			
Target Compounds						Qvalue
6) Hexachloroethane	2.389	117	16711	2998.837	ng/ml	83
9) Naphthalene	2.803	128	117142	2949.684	ng/ml	100
10) Hexachlorobutadiene	2.876	225	26452	3092.860	ng/ml	100
11) 2-Methylnaphthalene	3.181	142	85131	2899.198	ng/ml	95
14) 2-Chloronaphthalene	3.447	162	90689	2899.421	ng/ml	97
16) Acenaphthylene	3.679	152	138305	2975.494	ng/ml	100
18) Acenaphthene	3.777	153	86707	2945.258	ng/ml	97
20) Fluorene	4.063	166	106309	3021.056	ng/ml	96
24) Hexachlorobenzene	4.377	284	40737	2858.681	ng/ml	96
25) Pentachlorophenol	4.490	266	28318	3116.312	ng/ml	99

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\240306LVI\
Data File : 892407-2.D
Acq On : 06 Mar 2024 08:00 am
Operator : sv119:jjw
Sample : WG1892407-2,32,,ah
Misc : WG1892736,WG1892407,ical20642
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 06 08:14:35 2024
Quant Method : I:\8270sim\sv119\240306LVI\SIM-LVI_231207n_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Mar 06 07:14:42 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv119\240306LVI\ccv0306.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Phenanthrene	4.604	178	161889	2891.234	ng/ml	100
27) Anthracene	4.632	178	166249	2994.060	ng/ml	100
28) Fluoranthene	5.288	202	211016	2859.429	ng/ml	96
29) Pyrene	5.423	202	213276	2813.103	ng/ml	98
32) Benzo[a]anthracene	6.164	228	200829	3509.120	ng/ml	99
34) Chrysene	6.187	228	180692	3184.130	ng/ml	99
37) Benzo[b]fluoranthene	6.947	252	185210	3261.821	ng/ml	99
38) Benzo[k]fluoranthene	6.971	252	165523	3069.950	ng/ml	100
39) Benzo[a]pyrene	7.235	252	151420	3029.626	ng/ml	100
40) Indeno[1,2,3-cd]pyrene	8.425	276	164759	3033.147	ng/ml	99
41) Dibenzo[a,h]anthracene	8.458	278	134592	2663.152	ng/ml	99
42) Benzo[g,h,i]perylene	8.745	276	146755	2656.034	ng/ml	100

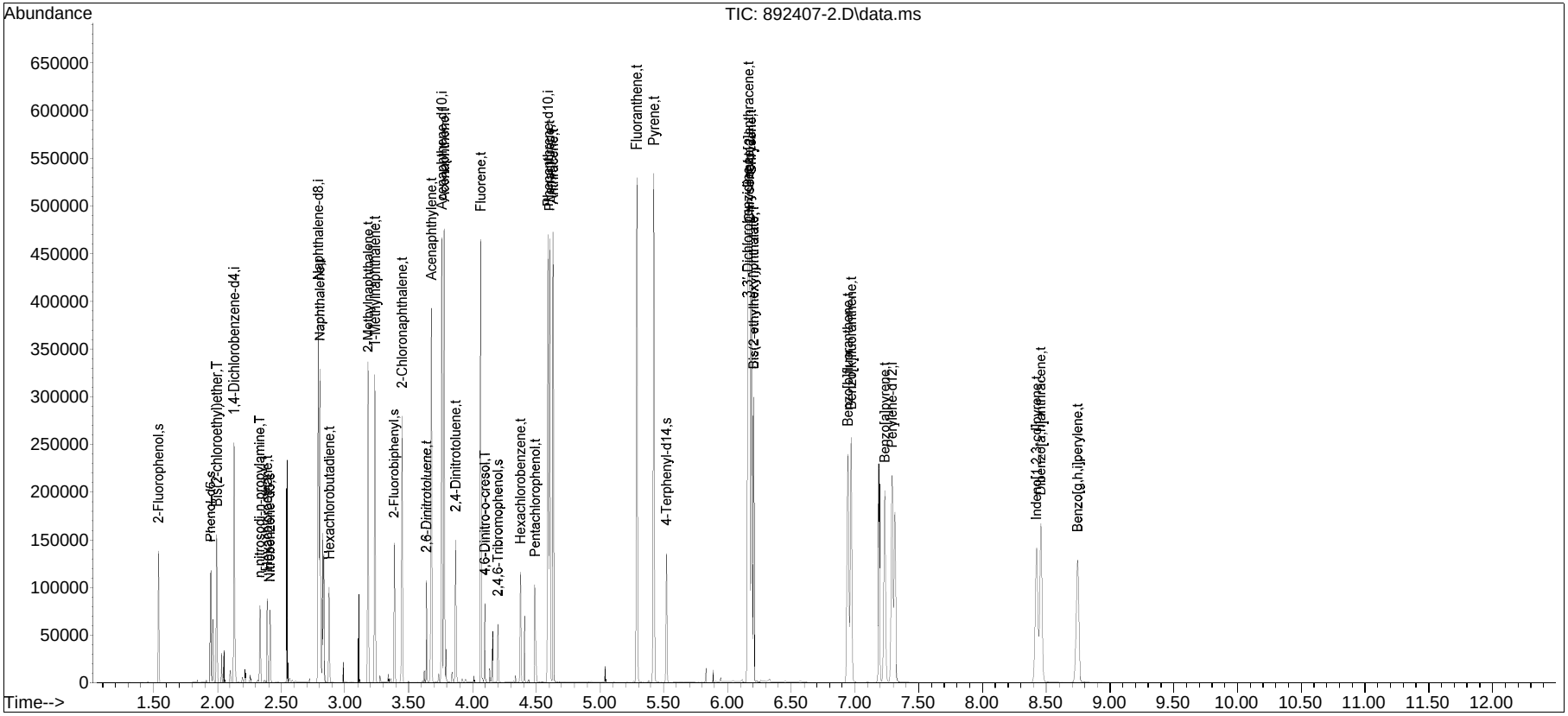
(#) = qualifier out of range (m) = manual integration (+) = signals summed

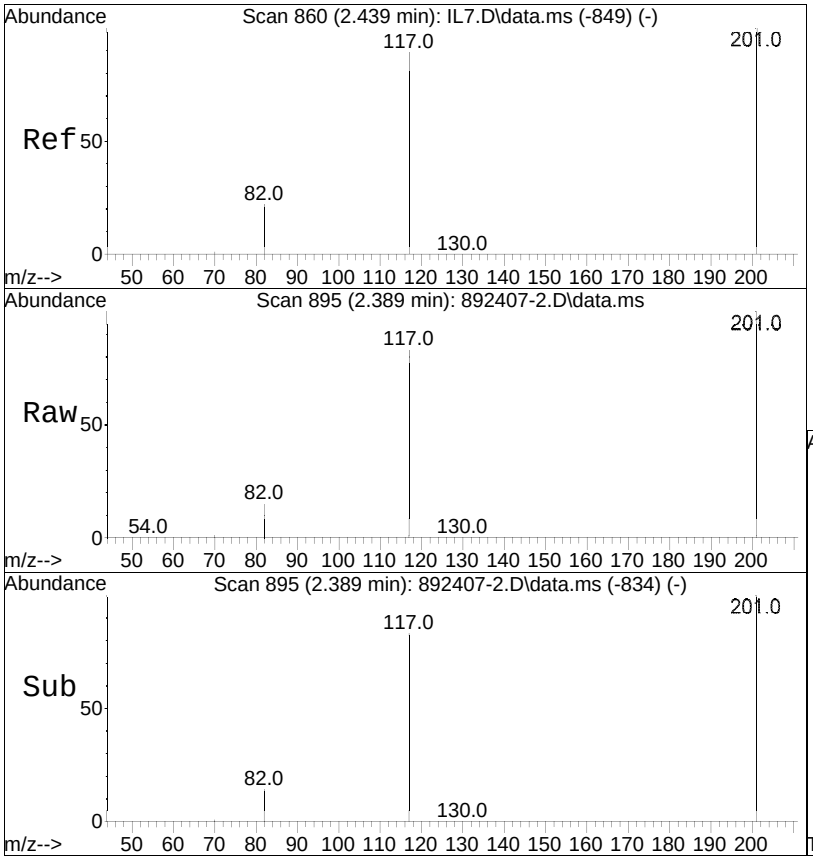
Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\240306LVI\
Data File : 892407-2.D
Acq On : 06 Mar 2024 08:00 am
Operator : sv119:jjw
Sample : WG1892407-2,32,,ah
Misc : WG1892736,WG1892407,ical20642
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 06 08:14:35 2024
Quant Method : I:\8270sim\sv119\240306LVI\SIM-LVI_231207n_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Mar 06 07:14:42 2024
Response via : Initial Calibration

Sub List : DEFAULT - All compounds listed\ccv0306.D•

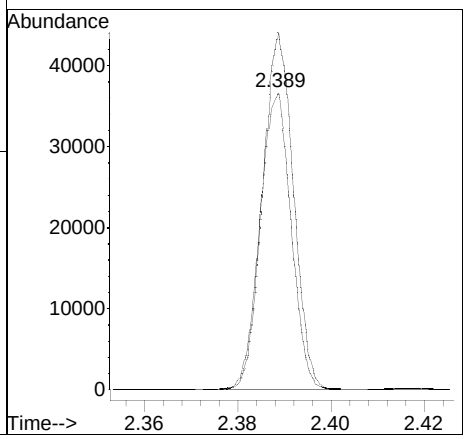


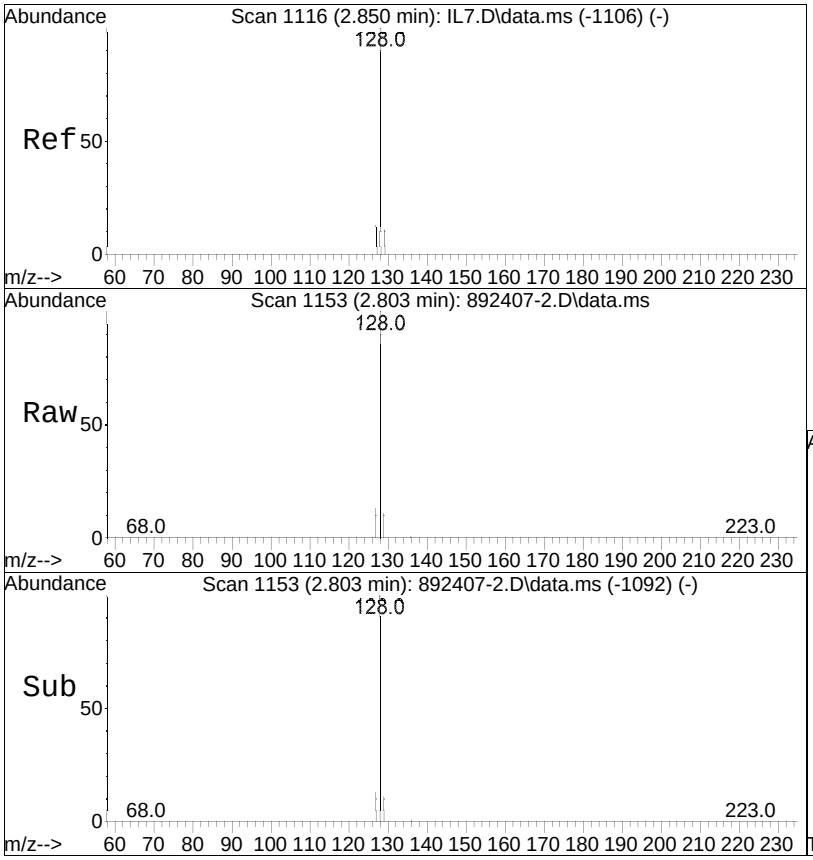


#6
Hexachloroethane
Concen: 2998.84 ng/ml
RT: 2.389 min Scan# 895
Delta R.T. -0.002 min
Lab File: 892407-2.D
Acq: 06 Mar 2024 08:00 am

Tgt Ion:117 Resp: 16711

Ion	Ratio	Lower	Upper
117	100		
201	118.7	81.5	122.3

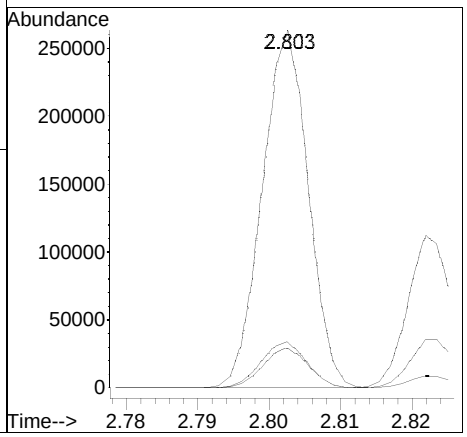


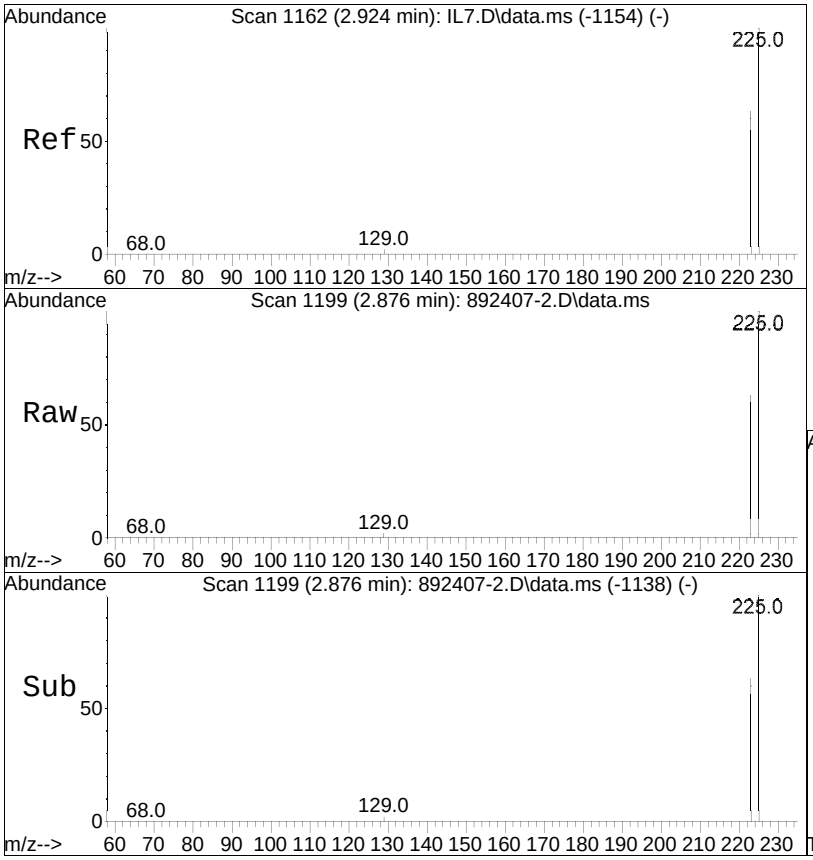


#9
Naphthalene
Concen: 2949.68 ng/ml
RT: 2.803 min Scan# 1153
Delta R.T. -0.002 min
Lab File: 892407-2.D
Acq: 06 Mar 2024 08:00 am

Tgt Ion:128 Resp: 117142

Ion	Ratio	Lower	Upper
128	100		
129	11.1	8.8	13.2
127	12.9	10.6	15.8

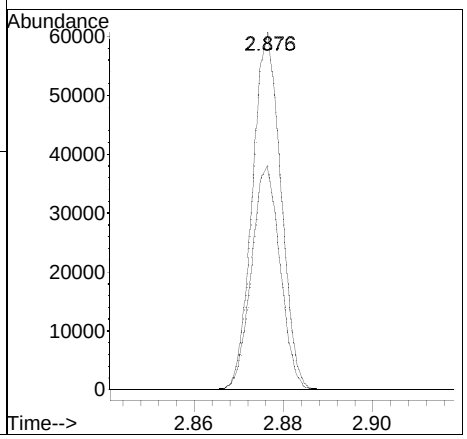


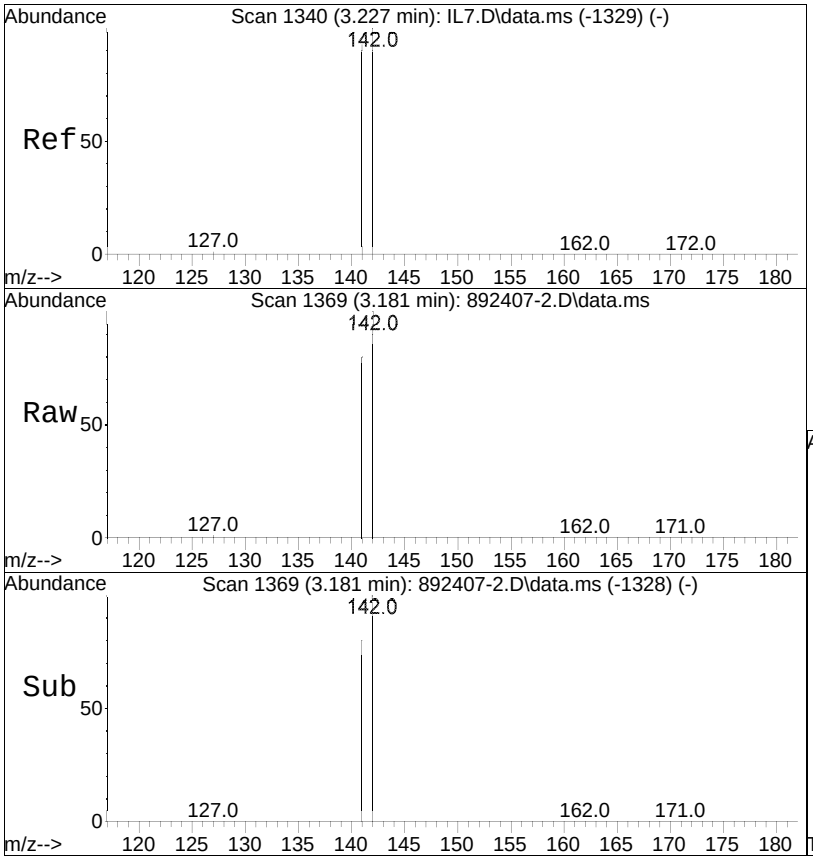


#10
Hexachlorobutadiene
Concen: 3092.86 ng/ml
RT: 2.876 min Scan# 1199
Delta R.T. -0.002 min
Lab File: 892407-2.D
Acq: 06 Mar 2024 08:00 am

Tgt Ion:225 Resp: 26452

Ion	Ratio	Lower	Upper
225	100		
223	62.9	50.1	75.1

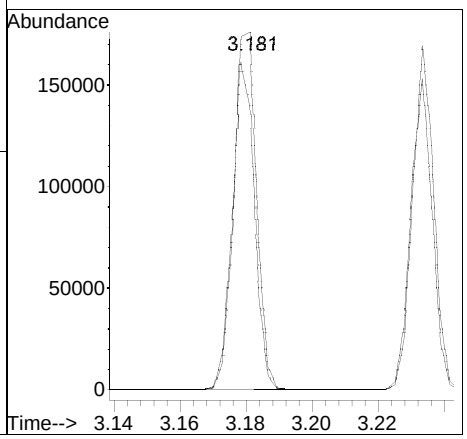


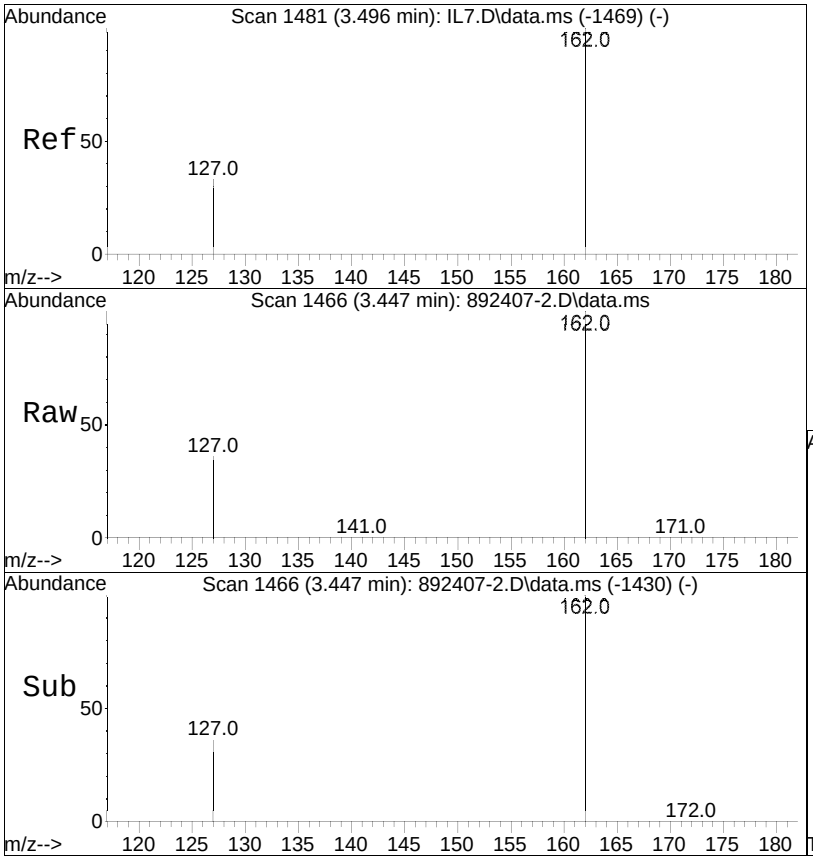


#11
2-Methylnaphthalene
Concen: 2899.20 ng/ml
RT: 3.181 min Scan# 1369
Delta R.T. -0.002 min
Lab File: 892407-2.D
Acq: 06 Mar 2024 08:00 am

Tgt Ion:142 Resp: 85131

Ion	Ratio	Lower	Upper
142	100		
141	88.1	74.1	111.1

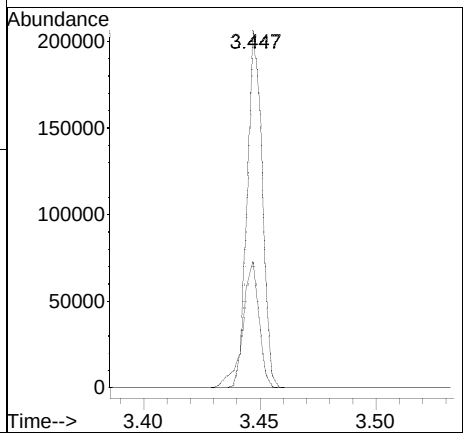


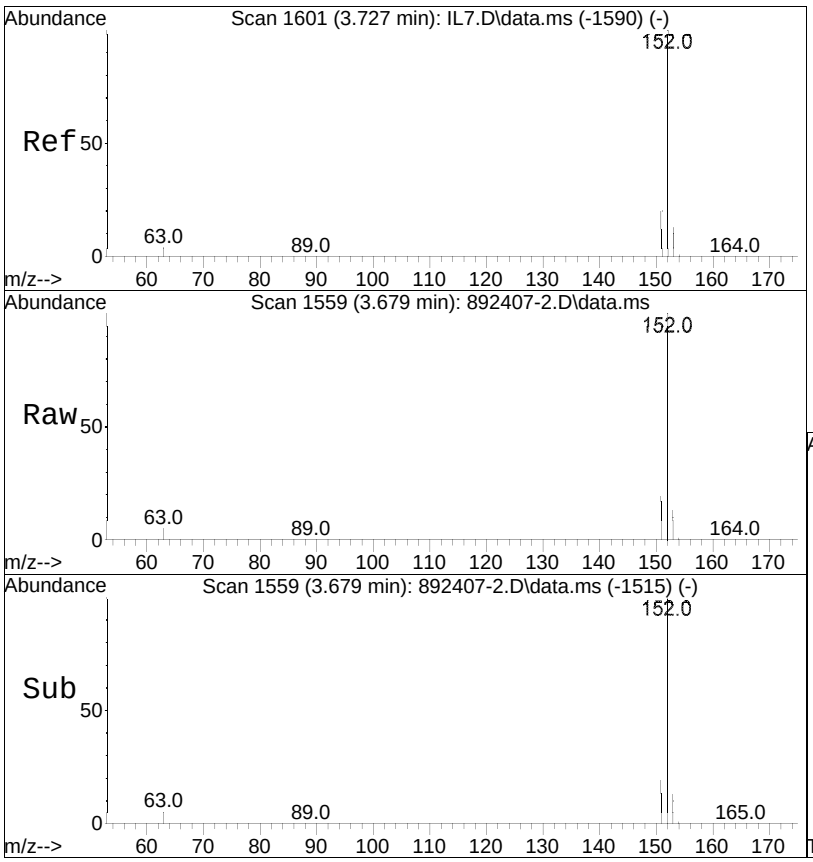


#14
2-Chloronaphthalene
Concen: 2899.42 ng/ml
RT: 3.447 min Scan# 1466
Delta R.T. -0.002 min
Lab File: 892407-2.D
Acq: 06 Mar 2024 08:00 am

Tgt Ion:162 Resp: 90689

Ion	Ratio	Lower	Upper
162	100		
127	39.0	29.7	44.5

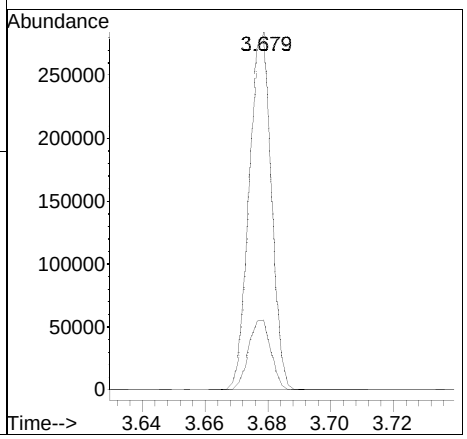


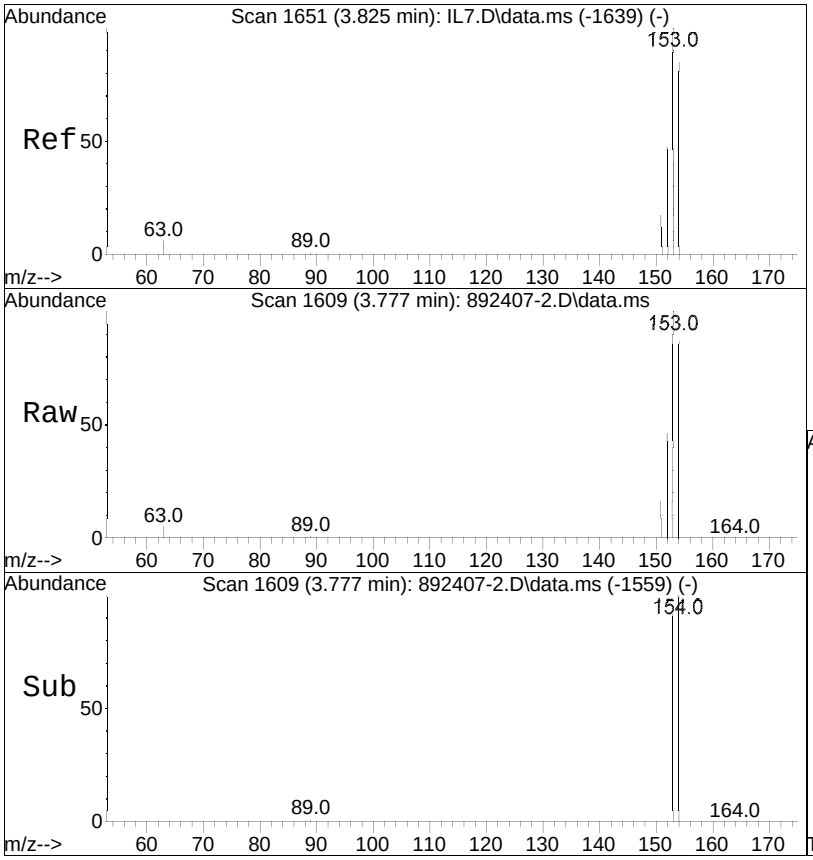


#16
Acenaphthylene
Concen: 2975.49 ng/ml
RT: 3.679 min Scan# 1559
Delta R.T. -0.002 min
Lab File: 892407-2.D
Acq: 06 Mar 2024 08:00 am

Tgt Ion:152 Resp: 138305

Ion	Ratio	Lower	Upper
152	100		
151	19.8	16.0	24.0

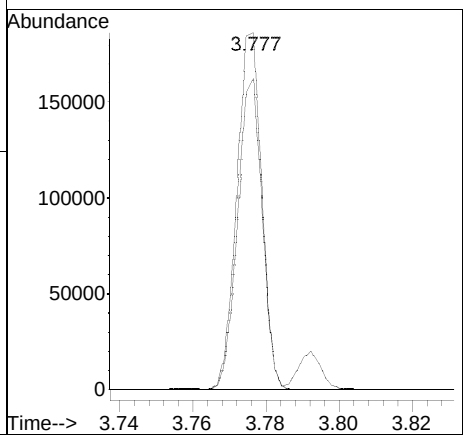


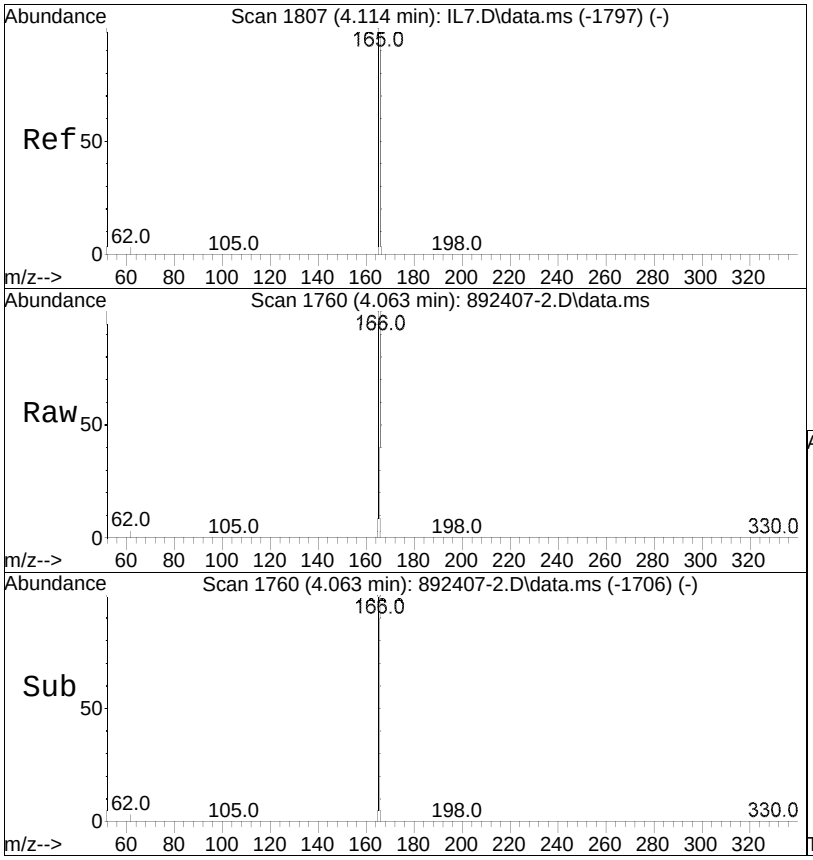


#18
Acenaphthene
Concen: 2945.26 ng/ml
RT: 3.777 min Scan# 1609
Delta R.T. -0.002 min
Lab File: 892407-2.D
Acq: 06 Mar 2024 08:00 am

Tgt Ion:153 Resp: 86707

Ion	Ratio	Lower	Upper
153	100		
154	85.9	66.9	100.3

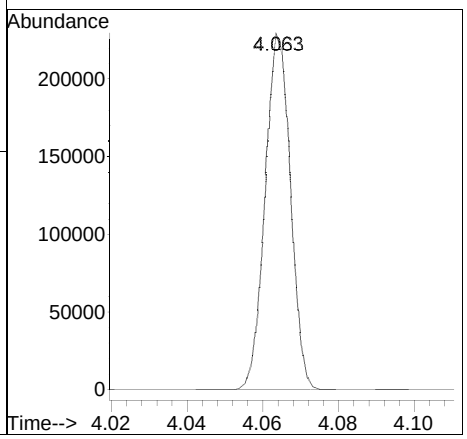


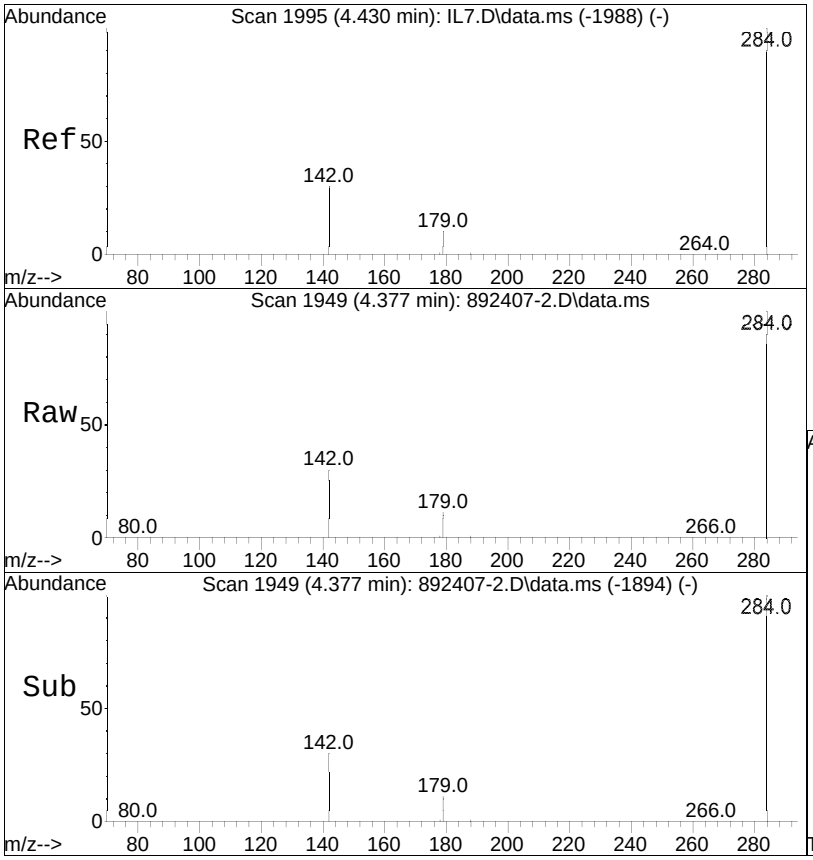


#20
Fluorene
Concen: 3021.06 ng/ml
RT: 4.063 min Scan# 1760
Delta R.T. -0.003 min
Lab File: 892407-2.D
Acq: 06 Mar 2024 08:00 am

Tgt Ion:166 Resp: 106309

Ion	Ratio	Lower	Upper
166	100		
165	99.9	82.9	124.3

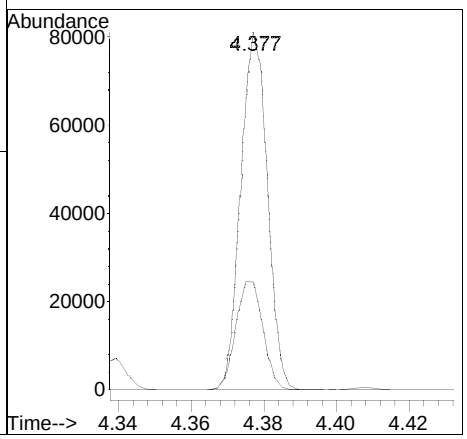


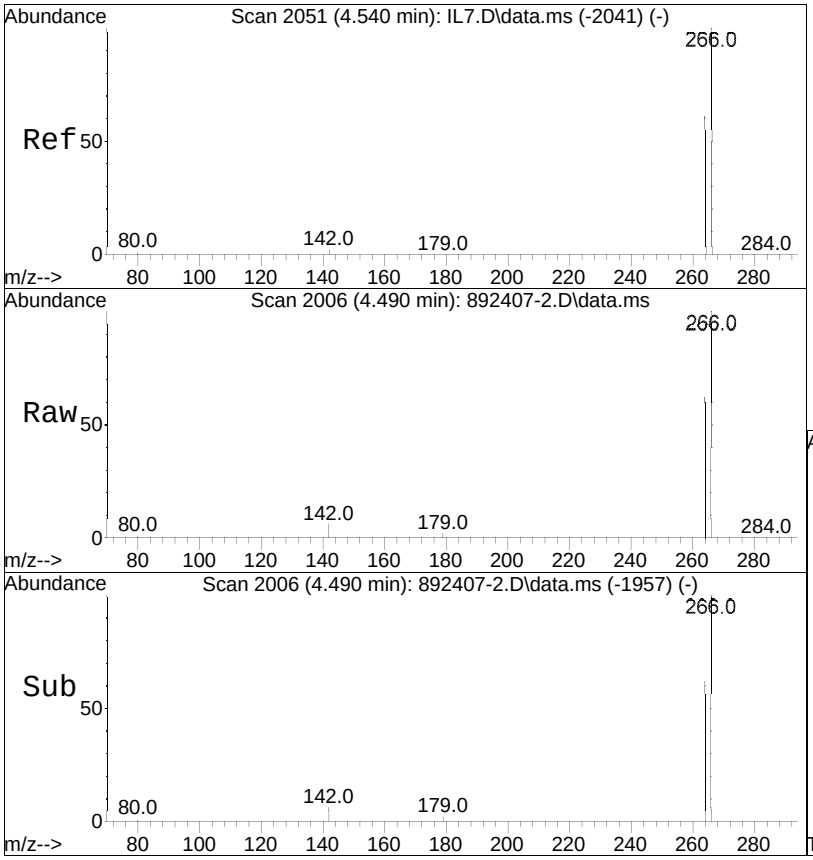


#24
Hexachlorobenzene
Concen: 2858.68 ng/ml
RT: 4.377 min Scan# 1949
Delta R.T. -0.004 min
Lab File: 892407-2.D
Acq: 06 Mar 2024 08:00 am

Tgt Ion:284 Resp: 40737

Ion	Ratio	Lower	Upper
284	100		
142	31.2	26.9	40.3

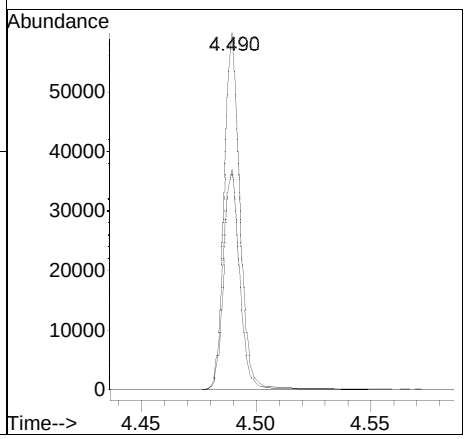


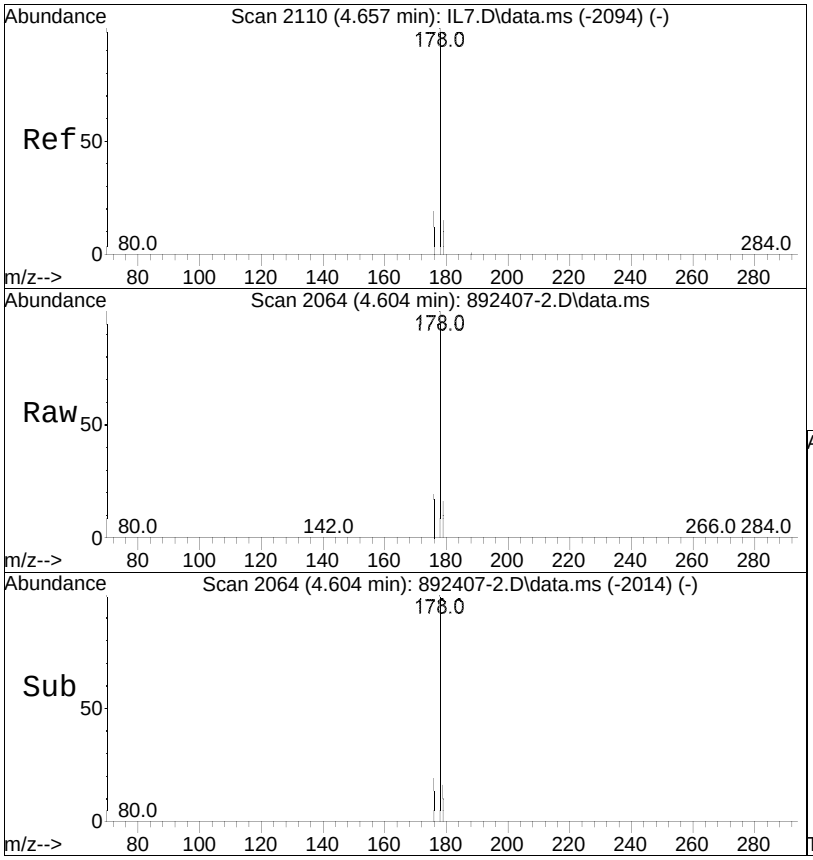


#25
Pentachlorophenol
Concen: 3116.31 ng/ml
RT: 4.490 min Scan# 2006
Delta R.T. -0.004 min
Lab File: 892407-2.D
Acq: 06 Mar 2024 08:00 am

Tgt Ion:266 Resp: 28318

Ion	Ratio	Lower	Upper
266	100		
264	62.8	50.7	76.1

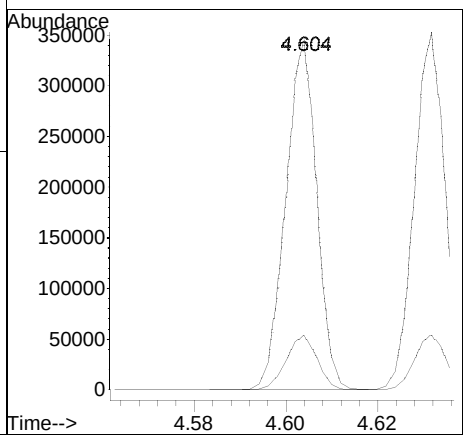


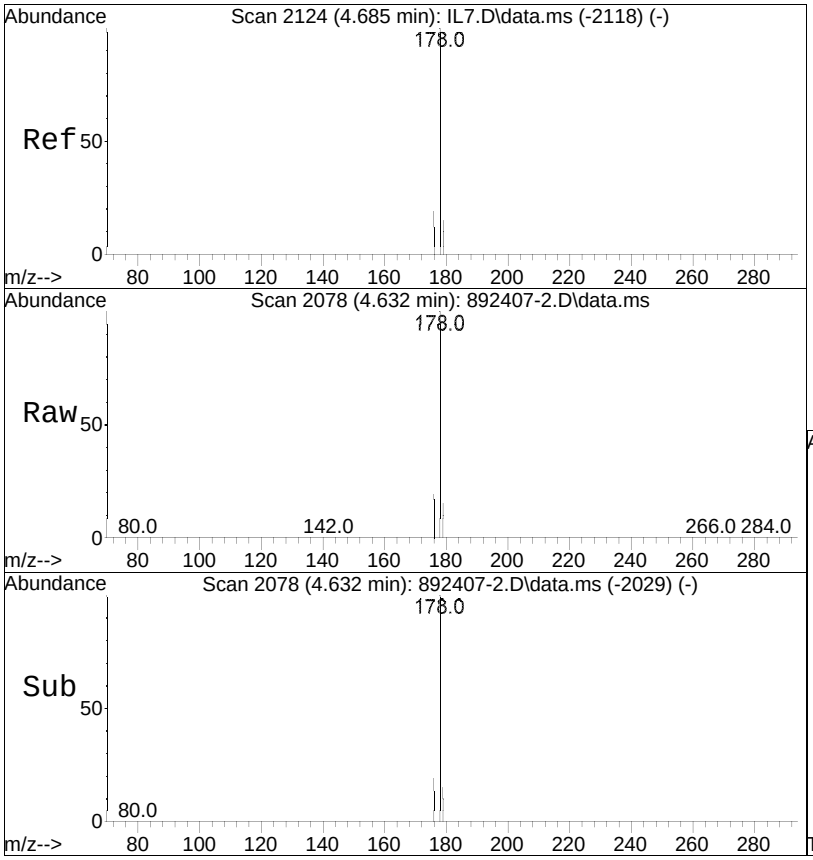


#26
Phenanthrene
Concen: 2891.23 ng/ml
RT: 4.604 min Scan# 2064
Delta R.T. -0.002 min
Lab File: 892407-2.D
Acq: 06 Mar 2024 08:00 am

Tgt Ion:178 Resp: 161889

Ion	Ratio	Lower	Upper
178	100		
179	15.6	12.3	18.5

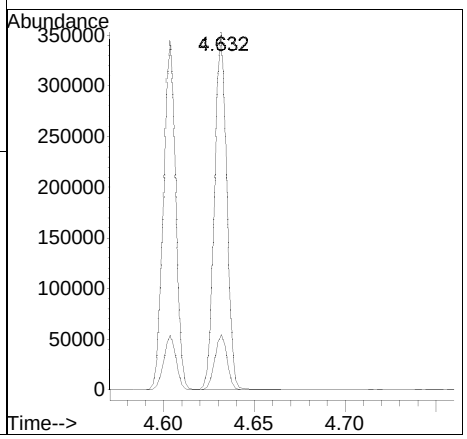


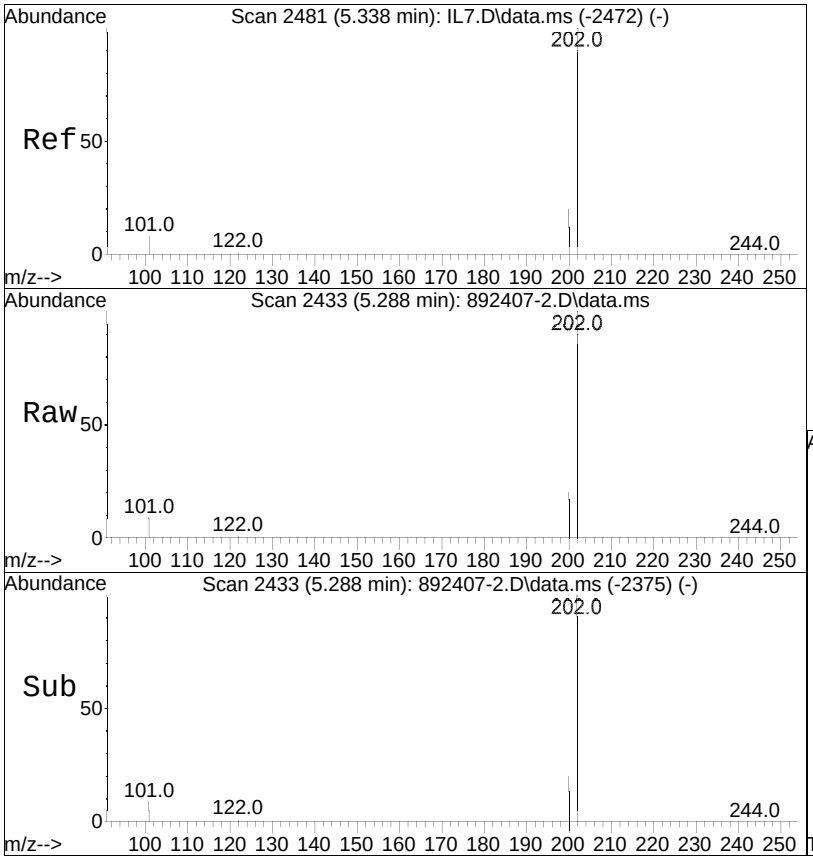


#27
Anthracene
Concen: 2994.06 ng/ml
RT: 4.632 min Scan# 2078
Delta R.T. -0.004 min
Lab File: 892407-2.D
Acq: 06 Mar 2024 08:00 am

Tgt Ion:178 Resp: 166249

Ion	Ratio	Lower	Upper
178	100		
179	15.4	12.2	18.4

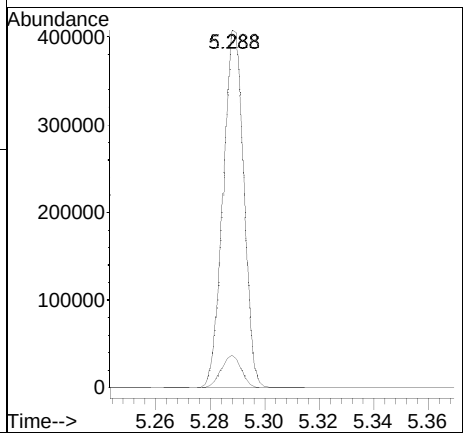


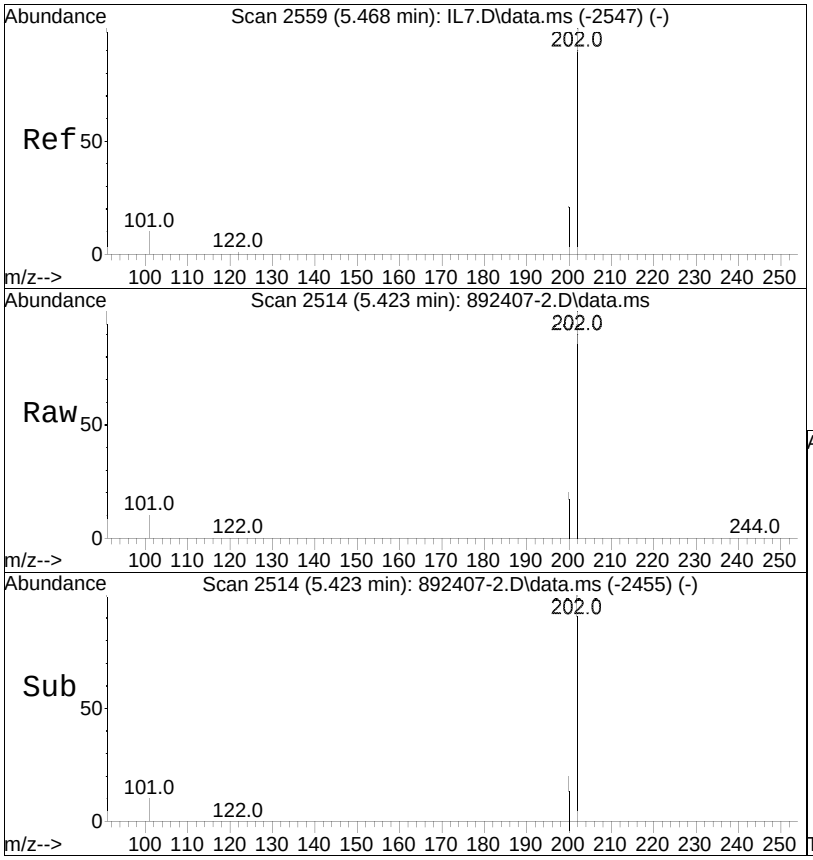


#28
Fluoranthene
Concen: 2859.43 ng/ml
RT: 5.288 min Scan# 2433
Delta R.T. -0.003 min
Lab File: 892407-2.D
Acq: 06 Mar 2024 08:00 am

Tgt Ion:202 Resp: 211016

Ion	Ratio	Lower	Upper
202	100		
101	9.0	8.3	12.5

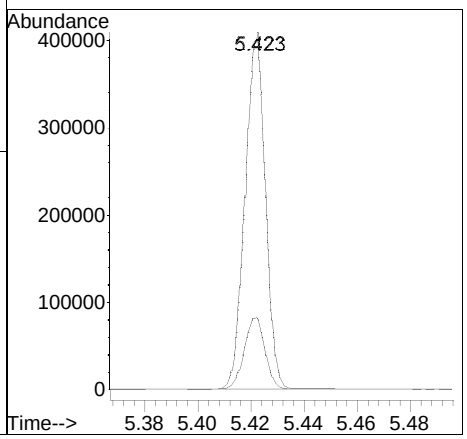


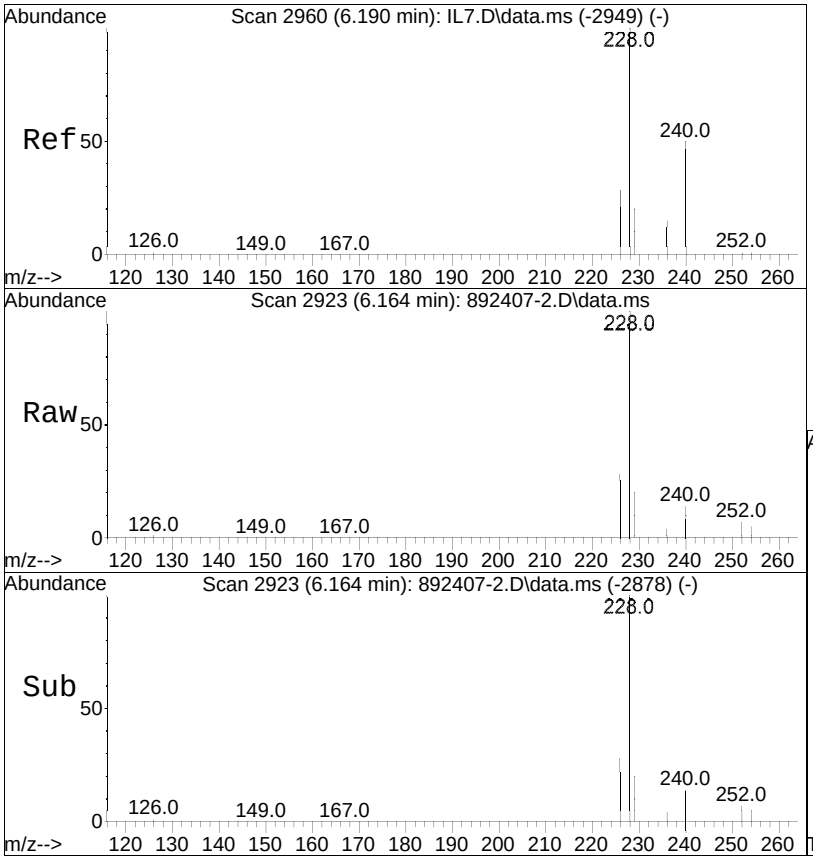


#29
Pyrene
Concen: 2813.10 ng/ml
RT: 5.423 min Scan# 2514
Delta R.T. -0.001 min
Lab File: 892407-2.D
Acq: 06 Mar 2024 08:00 am

Tgt Ion:202 Resp: 213276

Ion	Ratio	Lower	Upper
202	100		
200	20.9	17.3	25.9

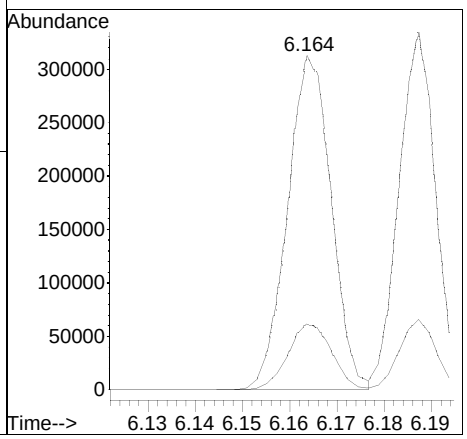


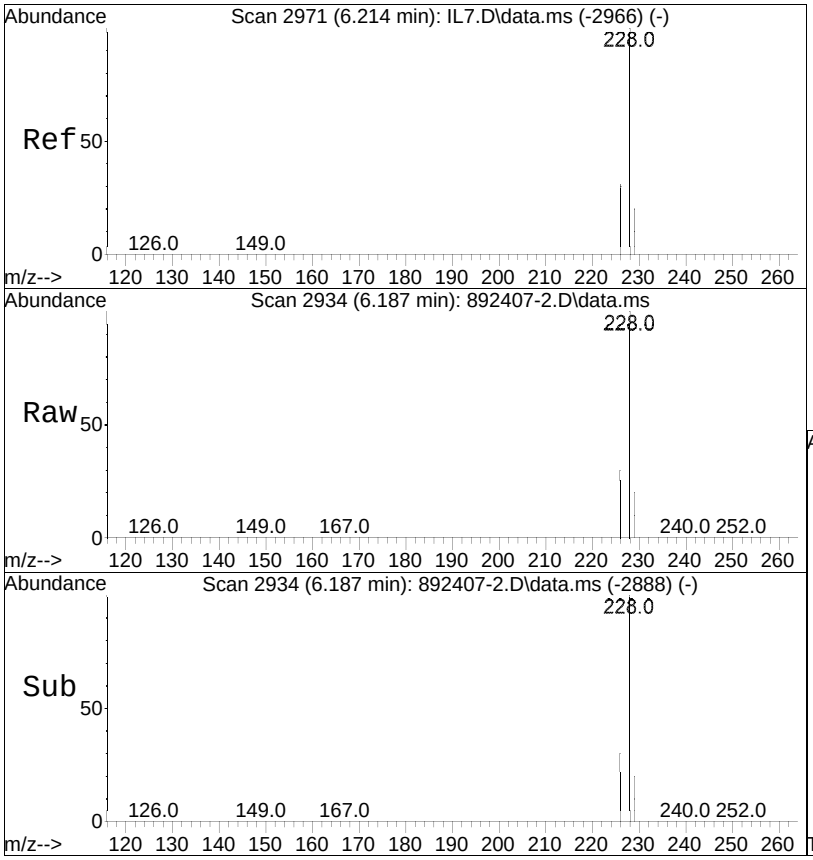


#32
Benzo[a]anthracene
Concen: 3509.12 ng/ml
RT: 6.164 min Scan# 2923
Delta R.T. -0.004 min
Lab File: 892407-2.D
Acq: 06 Mar 2024 08:00 am

Tgt Ion:228 Resp: 200829

Ion	Ratio	Lower	Upper
228	100		
229	19.7	15.6	23.4

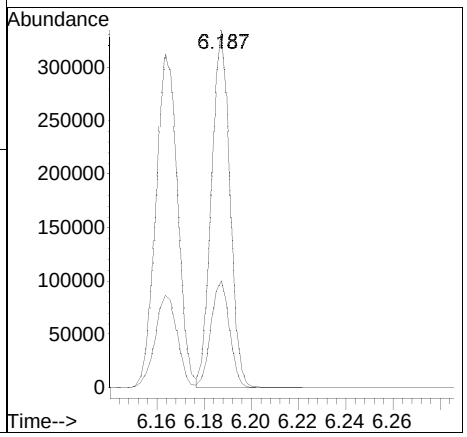


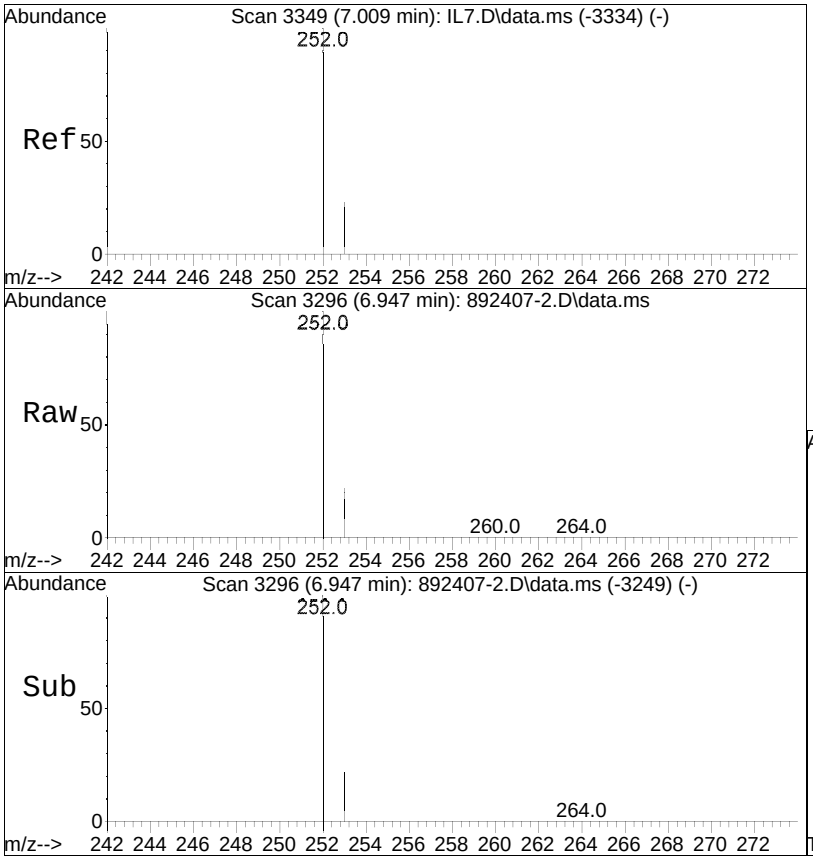


#34
Chrysene
Concen: 3184.13 ng/ml
RT: 6.187 min Scan# 2934
Delta R.T. -0.002 min
Lab File: 892407-2.D
Acq: 06 Mar 2024 08:00 am

Tgt Ion:228 Resp: 180692

Ion	Ratio	Lower	Upper
228	100		
226	30.3	24.5	36.7

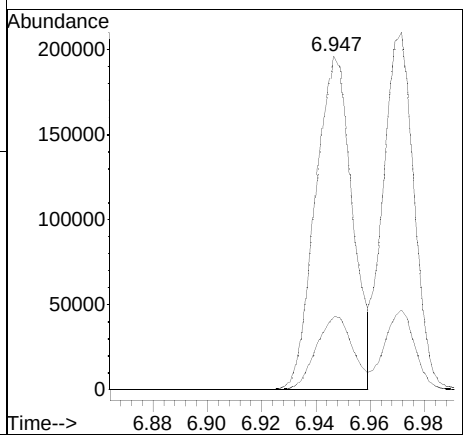


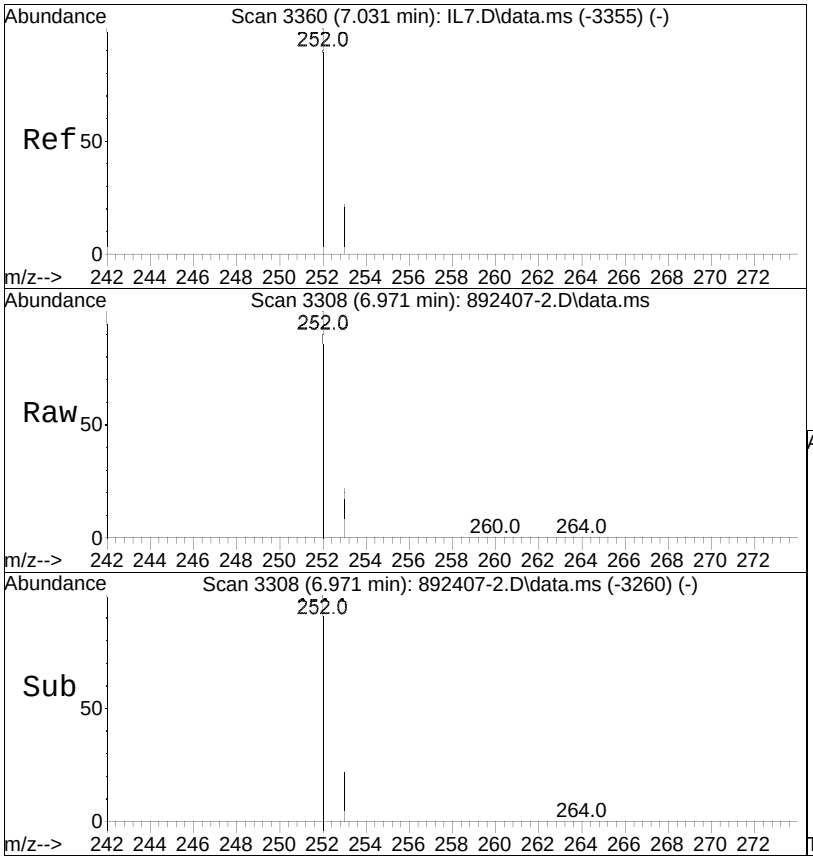


#37
Benzo[b]fluoranthene
Concen: 3261.82 ng/ml
RT: 6.947 min Scan# 3296
Delta R.T. -0.004 min
Lab File: 892407-2.D
Acq: 06 Mar 2024 08:00 am

Tgt Ion:252 Resp: 185210

Ion	Ratio	Lower	Upper
252	100		
253	22.0	17.3	25.9

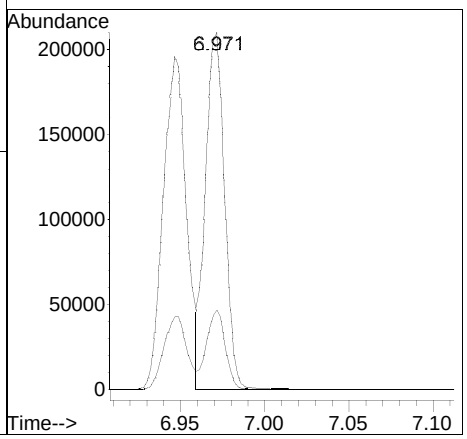


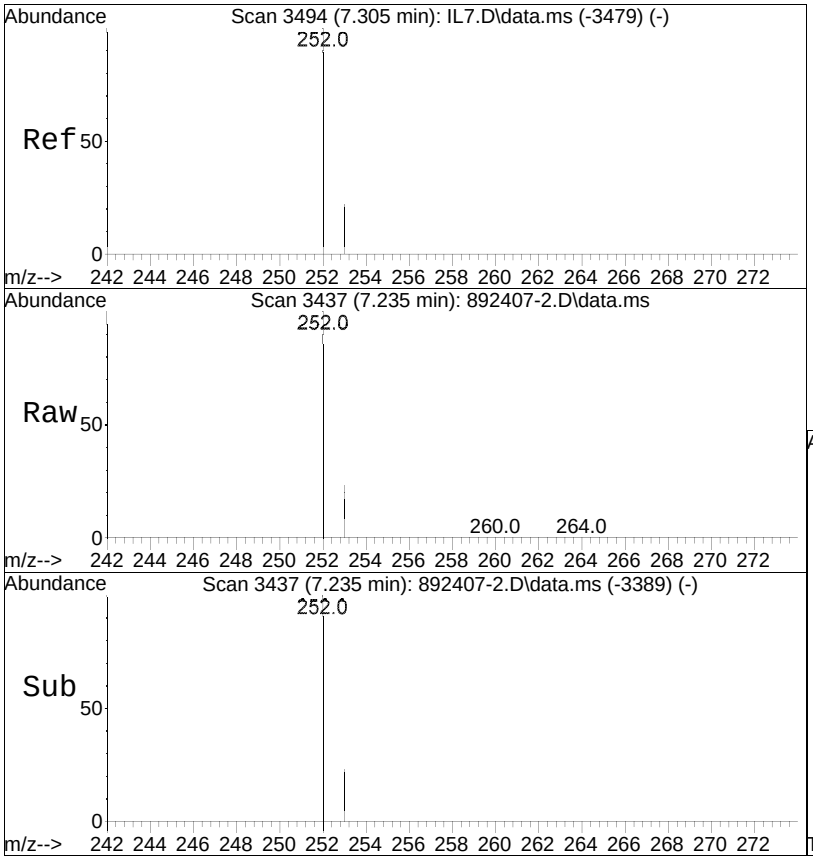


#38
Benzo[k]fluoranthene
Concen: 3069.95 ng/ml
RT: 6.971 min Scan# 3308
Delta R.T. -0.002 min
Lab File: 892407-2.D
Acq: 06 Mar 2024 08:00 am

Tgt Ion:252 Resp: 165523

Ion	Ratio	Lower	Upper
252	100		
253	22.0	17.4	26.2

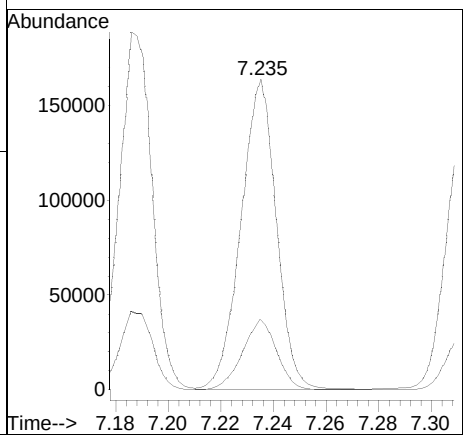


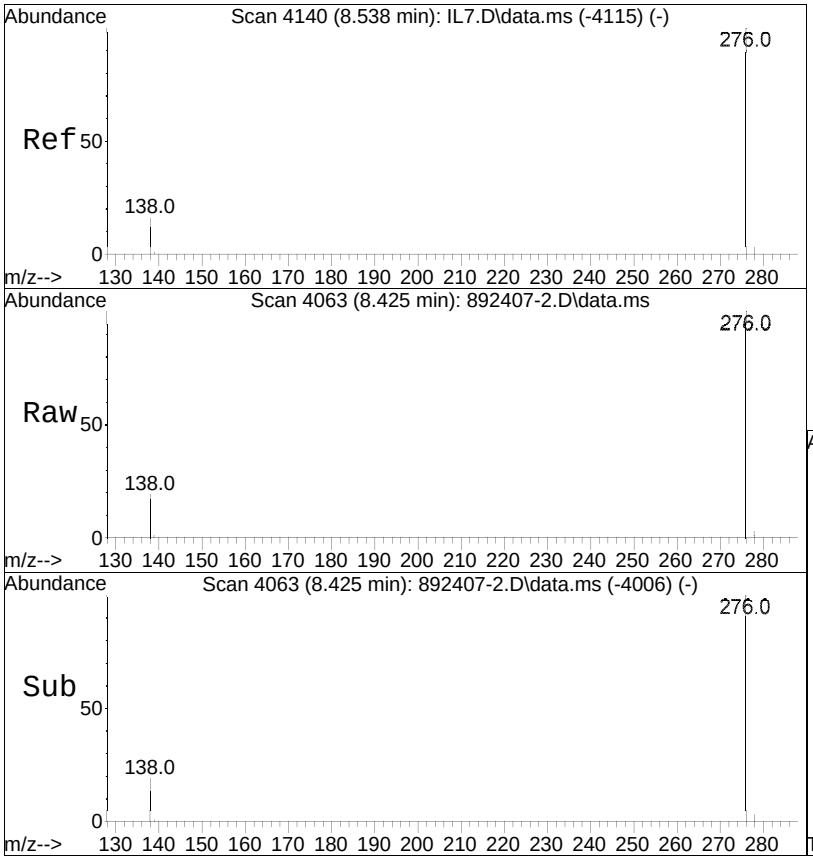


#39
Benzo[a]pyrene
Concen: 3029.63 ng/ml
RT: 7.235 min Scan# 3437
Delta R.T. -0.002 min
Lab File: 892407-2.D
Acq: 06 Mar 2024 08:00 am

Tgt Ion:252 Resp: 151420

Ion	Ratio	Lower	Upper
252	100		
253	21.9	17.4	26.0

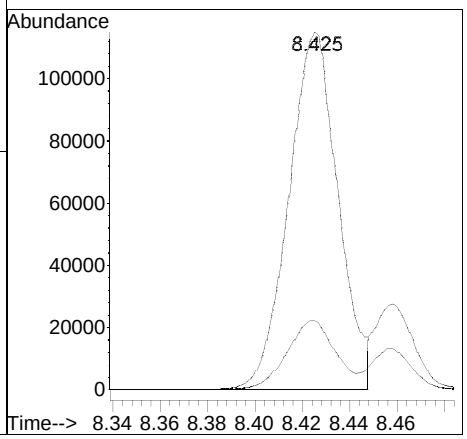


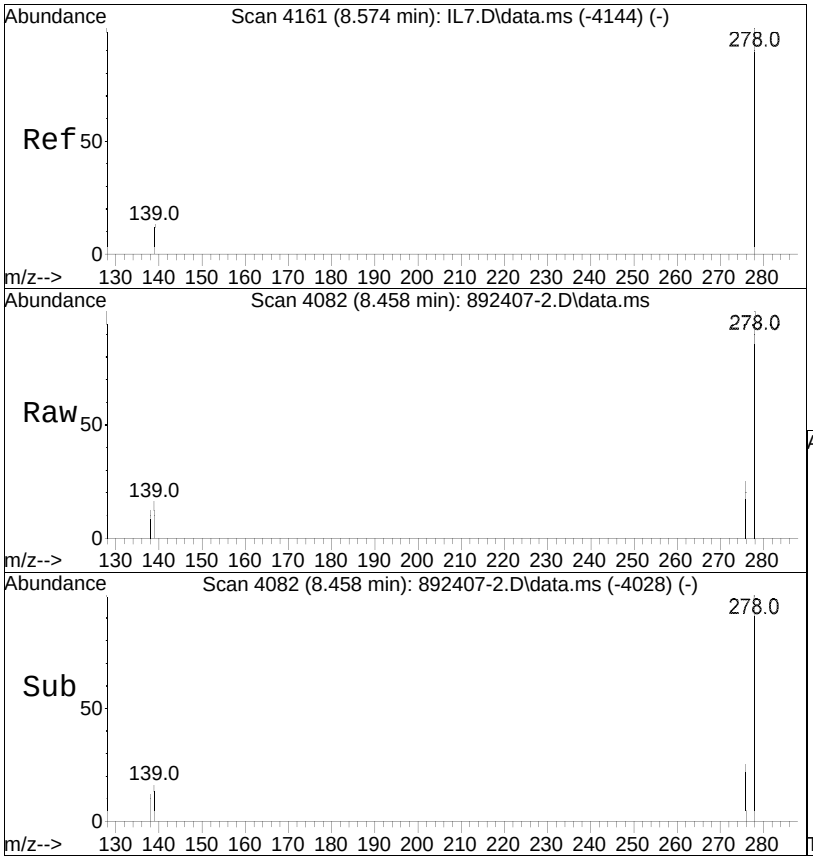


#40
Indeno[1,2,3-cd]pyrene
Concen: 3033.15 ng/ml
RT: 8.425 min Scan# 4063
Delta R.T. -0.002 min
Lab File: 892407-2.D
Acq: 06 Mar 2024 08:00 am

Tgt Ion:276 Resp: 164759

Ion	Ratio	Lower	Upper
276	100		
138	19.0	14.8	22.2

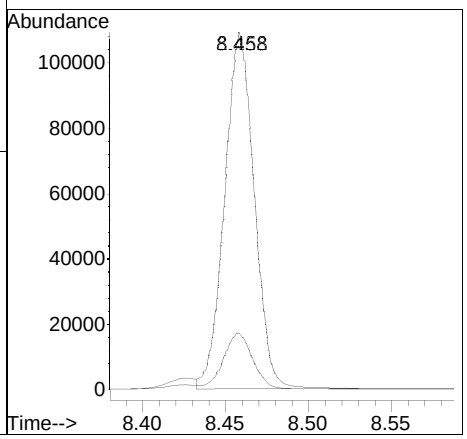


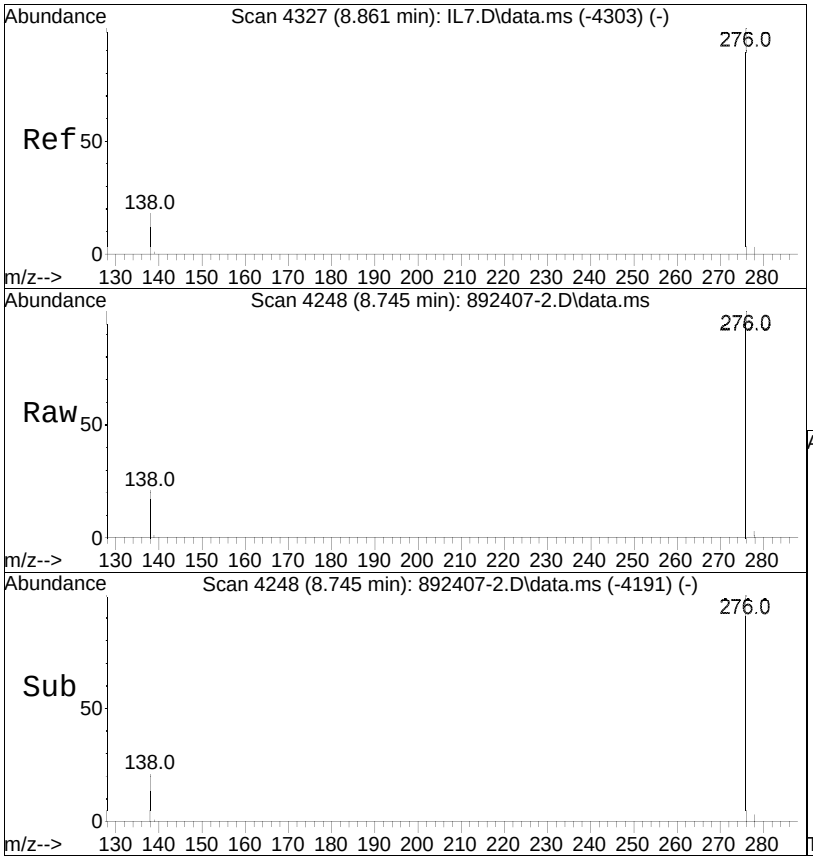


#41
Dibenzo[a,h]anthracene
Concen: 2663.15 ng/ml
RT: 8.458 min Scan# 4082
Delta R.T. -0.007 min
Lab File: 892407-2.D
Acq: 06 Mar 2024 08:00 am

Tgt Ion:278 Resp: 134592

Ion	Ratio	Lower	Upper
278	100		
139	15.7	12.2	18.4

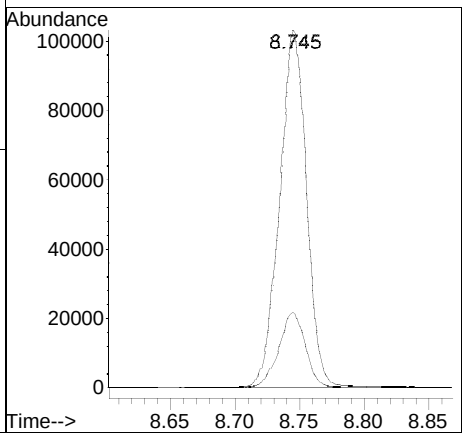




#42
Benzo[g,h,i]perylene
Concen: 2656.03 ng/ml
RT: 8.745 min Scan# 4248
Delta R.T. -0.002 min
Lab File: 892407-2.D
Acq: 06 Mar 2024 08:00 am

Tgt Ion:276 Resp: 146755

Ion	Ratio	Lower	Upper
276	100		
138	21.0	16.8	25.2



Manual Integration Report

Data Path	: I:\8270SIM\sv119\240306LVI	QMethod	: SIM-LVI_231207n_sv119.M
Data File	: 892407-2.D	Operator	: sv119:jjw
Date Inj'd	: 3/6/2024 8:00 am	Instrument	: SV119
Sample	: WG1892407-2,32,,ah	Quant Date	: 3/6/2024 8:15 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV128\240303\
Data File : 891420-3.D
Acq On : 03 Mar 2024 05:14 pm
Operator : SV128:jjw
Sample : WG1891420-3,32,,ah
Misc : WG1891581,WG1891420,ical20676
ALS Vial : 31 Sample Multiplier: 1

Quant Time: Mar 04 09:42:43 2024
Quant Method : I:\8270sim\sv128\240303\SIM-LVI_231211_sv128.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sun Mar 03 08:22:48 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv128\240303\ccv0303.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	2.342	152	2150	4000.000	ng/ml		0.00
Standard Area 1 = 2643			Recovery = 81.35%				
8) Naphthalene-d8	3.021	136	8395	4000.000	ng/ml	#	0.00
Standard Area 1 = 9361			Recovery = 89.68%				
17) Acenaphthene-d10	4.024	164	4898	4000.000	ng/ml		0.00
Standard Area 1 = 5723			Recovery = 85.58%				
22) Phenanthrene-d10	4.893	188	11545	4000.000	ng/ml		0.00
Standard Area 1 = 13127			Recovery = 87.95%				
31) Chrysene-d12	6.530	240	11230	4000.000	ng/ml		0.00
Standard Area 1 = 12561			Recovery = 89.40%				
36) Perylene-d12	7.922	264	11806	4000.000	ng/ml		0.00
Standard Area 1 = 13889			Recovery = 85.00%				
System Monitoring Compounds							
2) 2-Fluorophenol	1.731	112	1660	3066.093	ng/ml		0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 61.32%				
3) Phenol-d6	2.152	99	1741	2751.560	ng/ml		0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 55.03%				
7) Nitrobenzene-d5	2.630	82	997	1949.786	ng/ml		0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 77.99%				
13) 2-Fluorobiphenyl	3.633	172	2927	1644.072	ng/ml		0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 65.76%				
21) 2,4,6-Tribromophenol	4.488	330	1076	4396.131	ng/ml		0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 87.92%				
30) 4-Terphenyl-d14	5.837	244	4396	1827.675	ng/ml		0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 73.11%				
Target Compounds							Qvalue
6) Hexachloroethane	2.605	117	744	2897.530	ng/ml		91
9) Naphthalene	3.033	128	6932	3219.943	ng/ml	#	100
10) Hexachlorobutadiene	3.103	225	1406	2851.080	ng/ml		100
11) 2-Methylnaphthalene	3.422	142	4494	3267.726	ng/ml		99
14) 2-Chloronaphthalene	3.700	162	5053	3374.979	ng/ml		95
16) Acenaphthylene	3.941	152	7886	3555.648	ng/ml		99
18) Acenaphthene	4.042	153	5533	3341.735	ng/ml		99
20) Fluorene	4.345	166	6027	3606.763	ng/ml		98
24) Hexachlorobenzene	4.672	284	2437	3172.260	ng/ml		95
25) Pentachlorophenol	4.793	266	1111	3029.757	ng/ml		98

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV128\240303\
Data File : 891420-3.D
Acq On : 03 Mar 2024 05:14 pm
Operator : SV128:jjw
Sample : WG1891420-3,32,,ah
Misc : WG1891581,WG1891420,ical20676
ALS Vial : 31 Sample Multiplier: 1

Quant Time: Mar 04 09:42:43 2024
Quant Method : I:\8270sim\sv128\240303\SIM-LVI_231211_sv128.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sun Mar 03 08:22:48 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv128\240303\ccv0303.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Phenanthrene	4.908	178	9966	3192.289	ng/ml	99
27) Anthracene	4.938	178	10215	3386.309	ng/ml	99
28) Fluoranthene	5.610	202	12815	3736.280	ng/ml	99
29) Pyrene	5.744	202	13384	3771.546	ng/ml	98
32) Benzo[a]anthracene	6.521	228	13433	3330.058	ng/ml	100
34) Chrysene	6.549	228	12539	3238.748	ng/ml	100
37) Benzo[b]fluoranthene	7.495	252	12800	3501.009	ng/ml	99
38) Benzo[k]fluoranthene	7.523	252	12606	3705.101	ng/ml	99
39) Benzo[a]pyrene	7.850	252	11156	3465.130	ng/ml	100
40) Indeno[1,2,3-cd]pyrene	9.319	276	11241	3491.796	ng/ml	97
41) Dibenzo[a,h]anthracene	9.361	278	11411M6	3649.570	ng/ml	
42) Benzo[g,h,i]perylene	9.701	276	11205M1	3348.622	ng/ml	

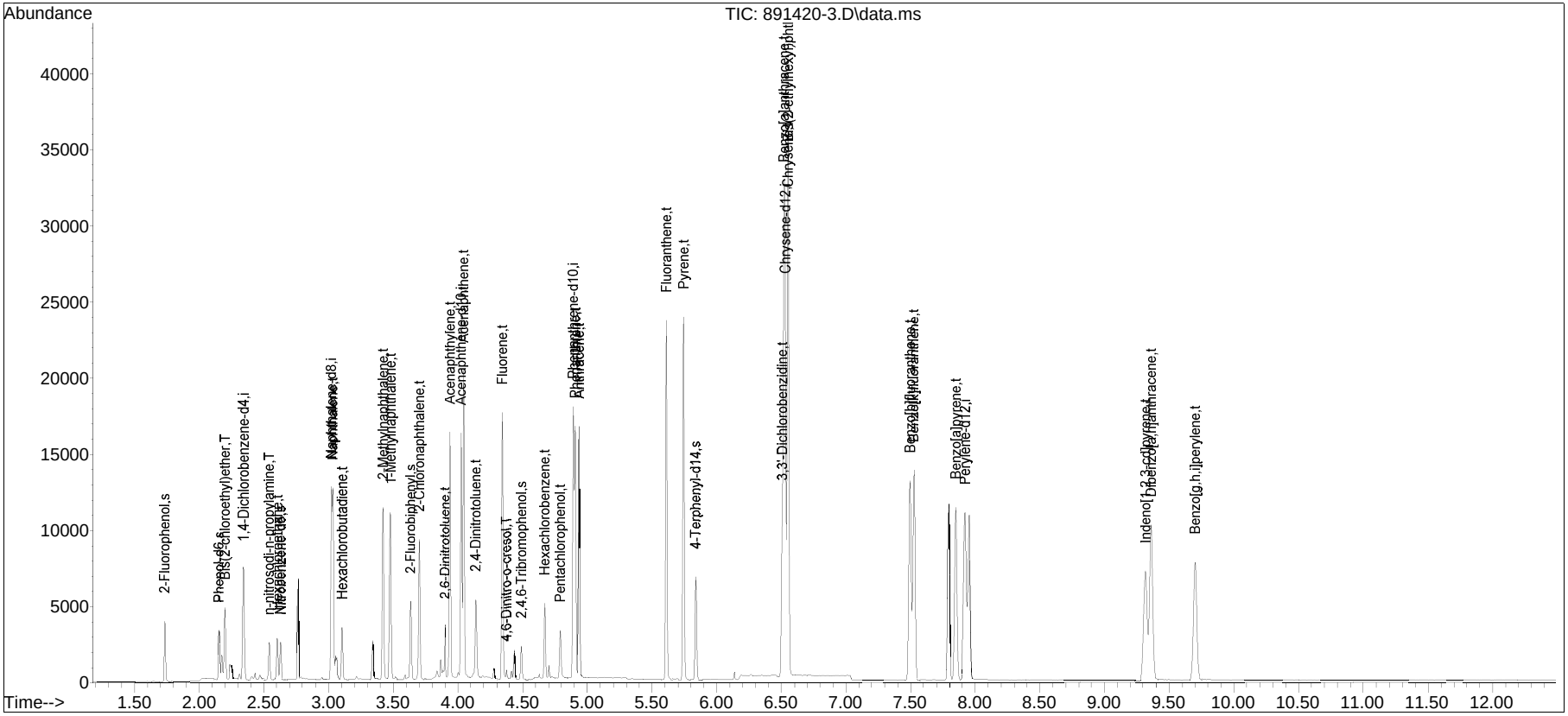
(#) = qualifier out of range (m) = manual integration (+) = signals summed

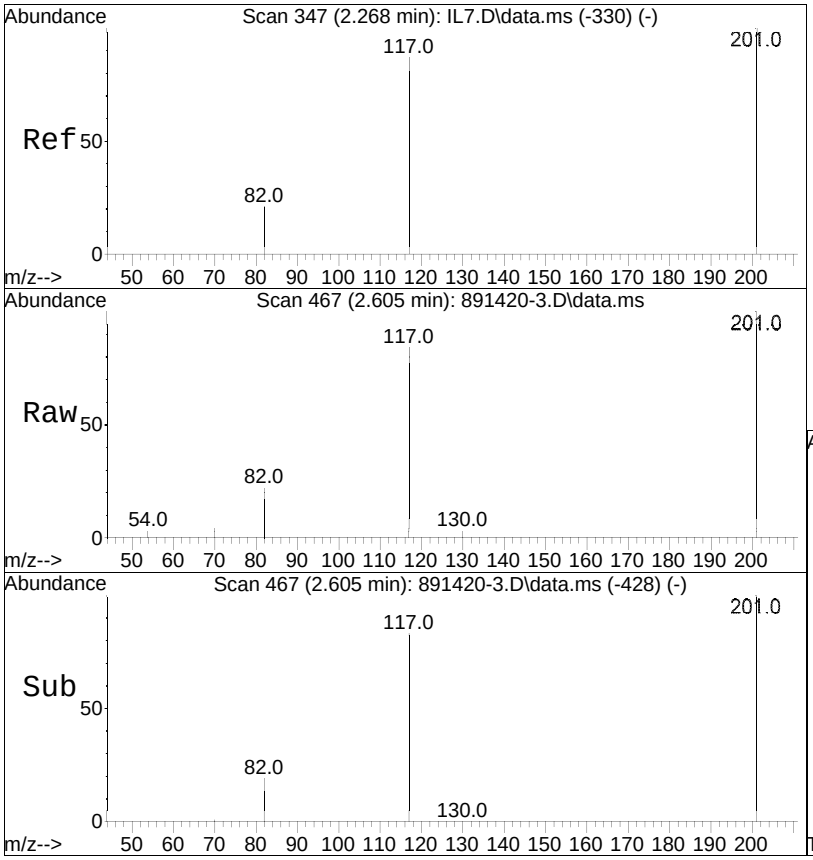
Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV128\240303\
Data File : 891420-3.D
Acq On : 03 Mar 2024 05:14 pm
Operator : SV128:jjw
Sample : WG1891420-3,32,,ah
Misc : WG1891581,WG1891420,ical20676
ALS Vial : 31 Sample Multiplier: 1

Quant Time: Mar 04 09:42:43 2024
Quant Method : I:\8270sim\sv128\240303\SIM-LVI_231211_sv128.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sun Mar 03 08:22:48 2024
Response via : Initial Calibration

Sub List : DEFAULT - All compounds listedv0303.D•

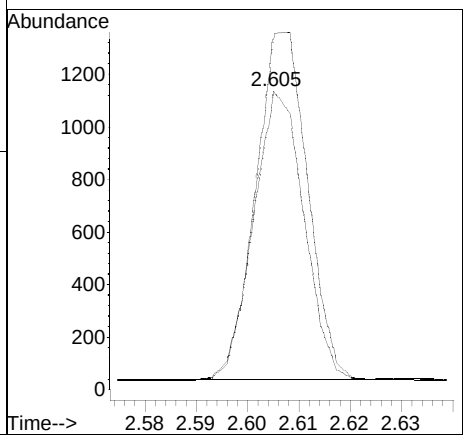


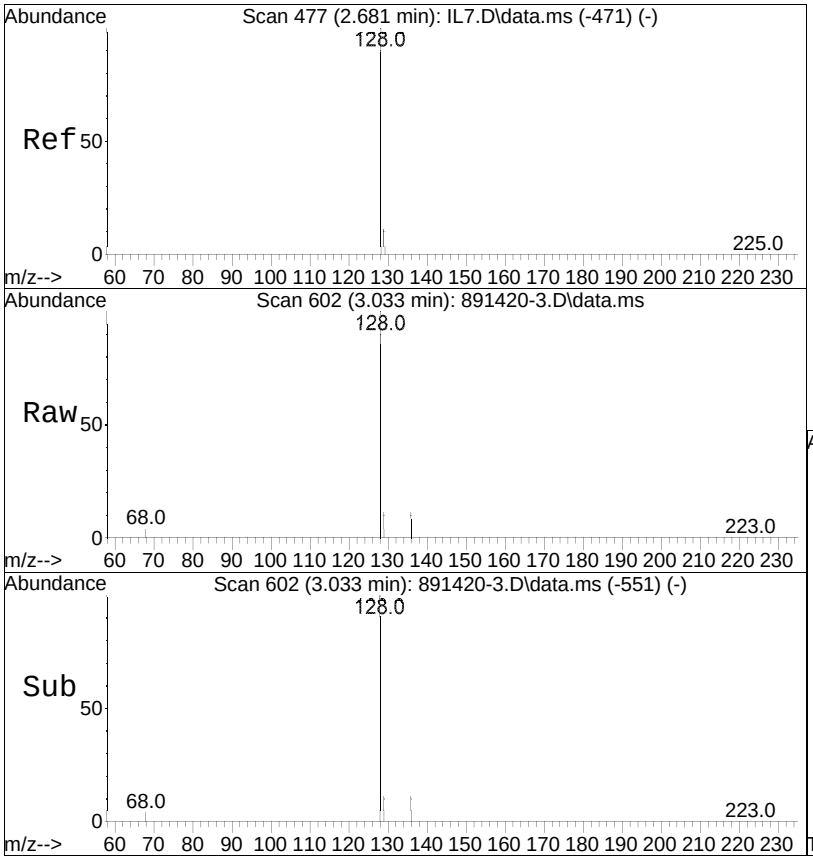


#6
Hexachloroethane
Concen: 2897.53 ng/ml
RT: 2.605 min Scan# 467
Delta R.T. -0.007 min
Lab File: 891420-3.D
Acq: 03 Mar 2024 05:14 pm

Tgt Ion:117 Resp: 744

Ion	Ratio	Lower	Upper
117	100		
201	123.9	91.8	137.6

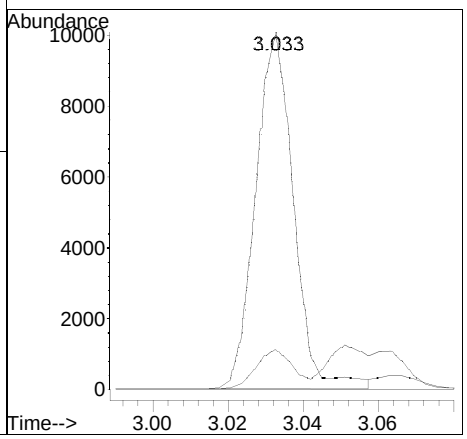


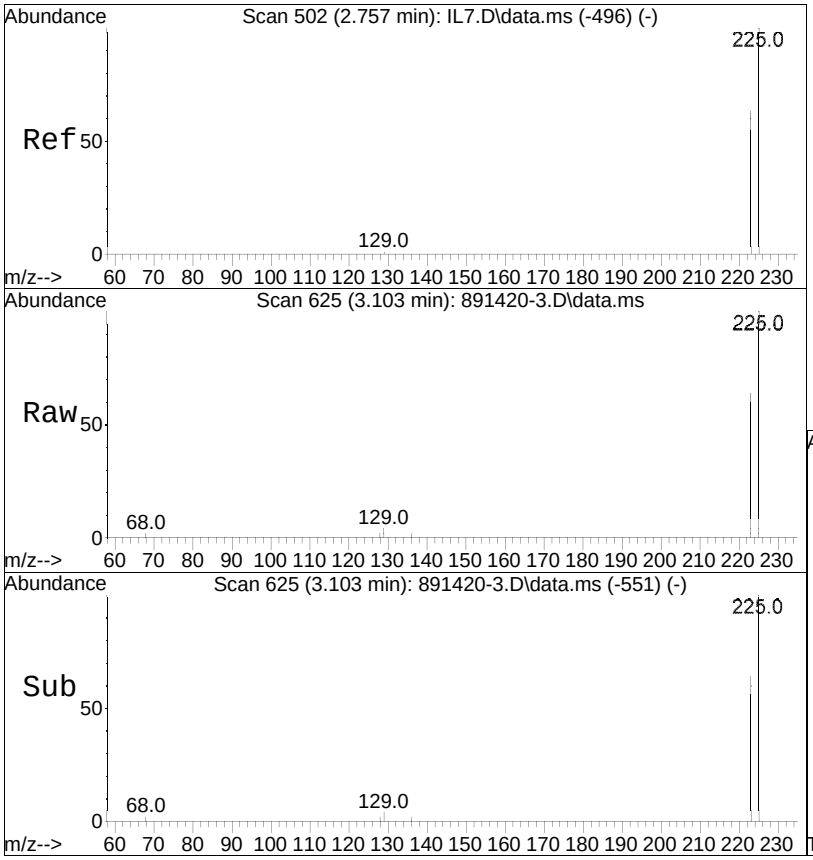


#9
Naphthalene
Concen: 3219.94 ng/ml
RT: 3.033 min Scan# 602
Delta R.T. -0.003 min
Lab File: 891420-3.D
Acq: 03 Mar 2024 05:14 pm

Tgt Ion:128 Resp: 6932

Ion	Ratio	Lower	Upper
128	100		
129	10.9	8.8	13.2
127	0.0	0.0	0.0

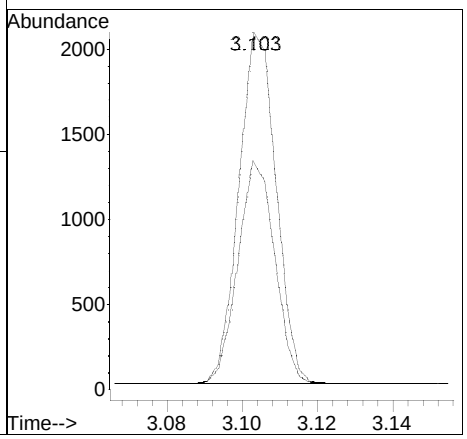


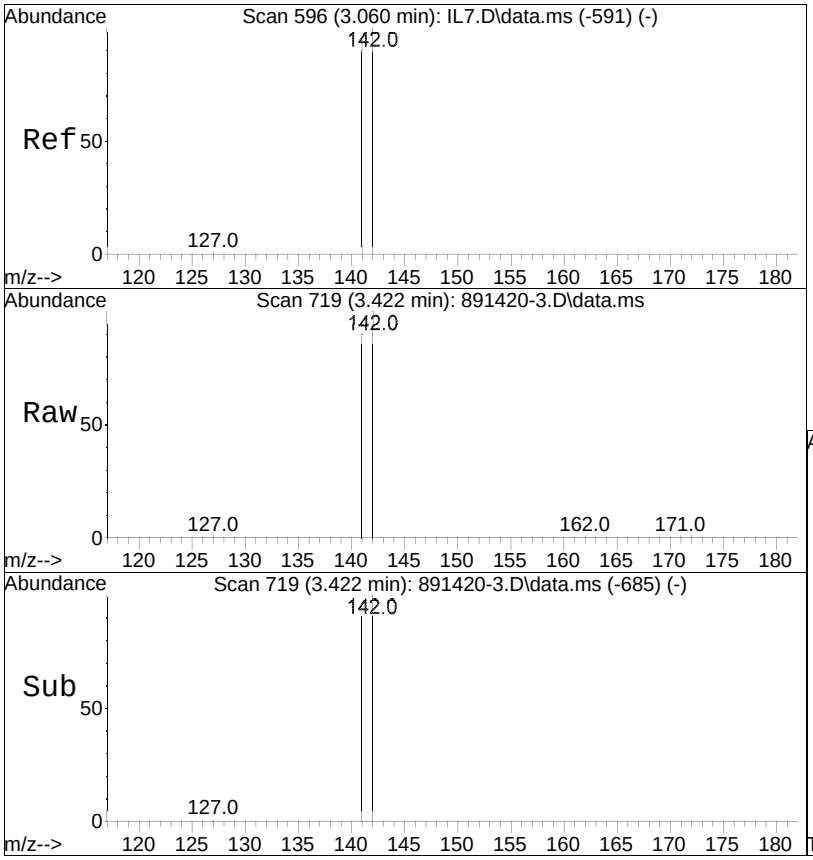


#10
Hexachlorobutadiene
Concen: 2851.08 ng/ml
RT: 3.103 min Scan# 625
Delta R.T. -0.007 min
Lab File: 891420-3.D
Acq: 03 Mar 2024 05:14 pm

Tgt Ion:225 Resp: 1406

Ion	Ratio	Lower	Upper
225	100		
223	62.6	49.9	74.9

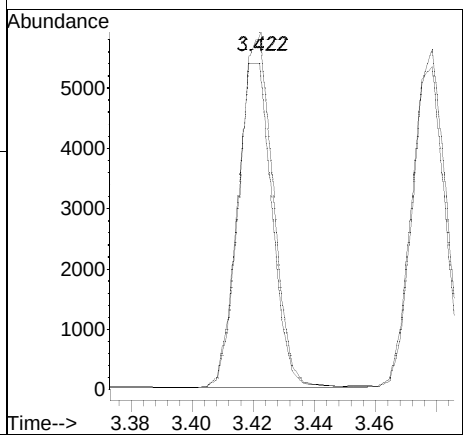


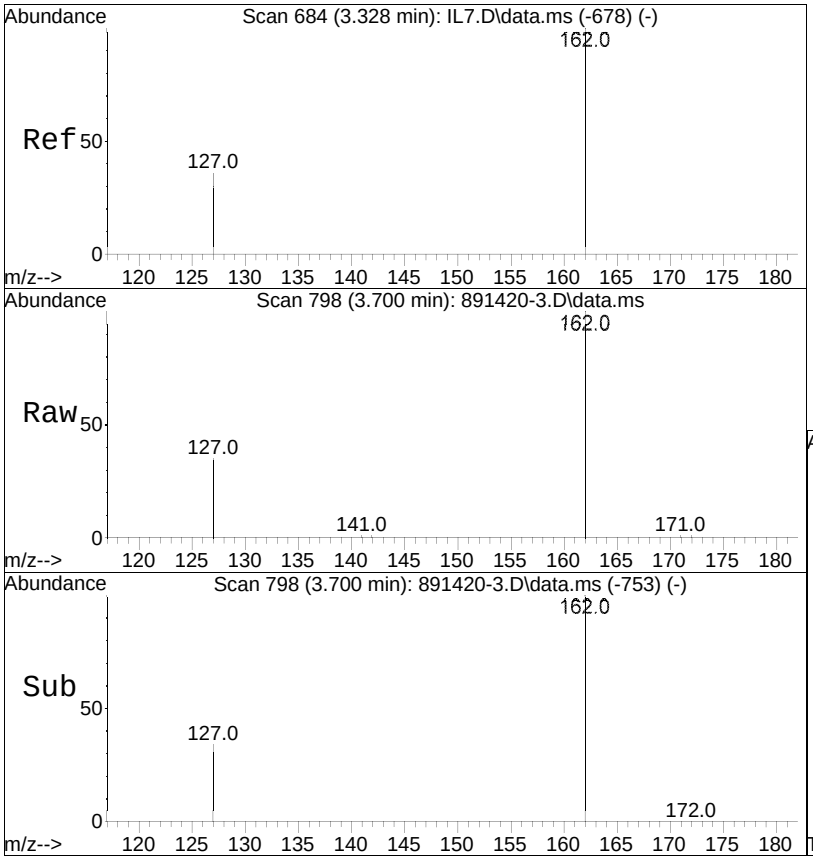


#11
2-Methylnaphthalene
Concen: 3267.73 ng/ml
RT: 3.422 min Scan# 719
Delta R.T. -0.004 min
Lab File: 891420-3.D
Acq: 03 Mar 2024 05:14 pm

Tgt Ion:142 Resp: 4494

Ion	Ratio	Lower	Upper
142	100		
141	94.2	75.9	113.9

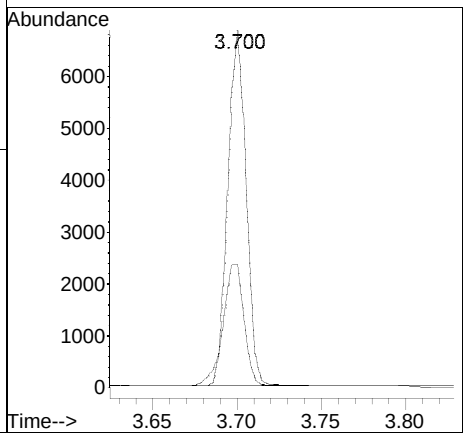


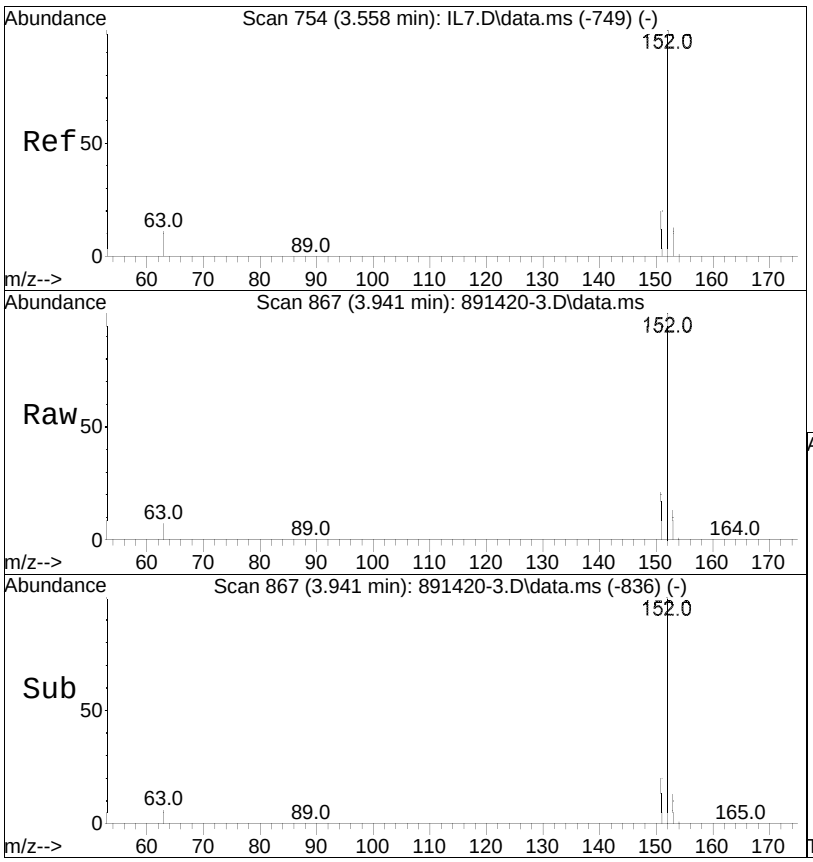


#14
2-Chloronaphthalene
Concen: 3374.98 ng/ml
RT: 3.700 min Scan# 798
Delta R.T. -0.004 min
Lab File: 891420-3.D
Acq: 03 Mar 2024 05:14 pm

Tgt Ion:162 Resp: 5053

Ion	Ratio	Lower	Upper
162	100		
127	39.6	29.3	43.9

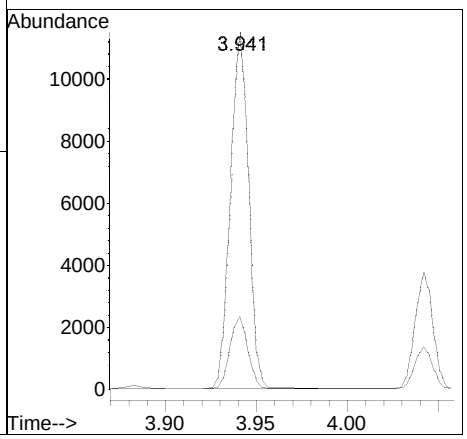


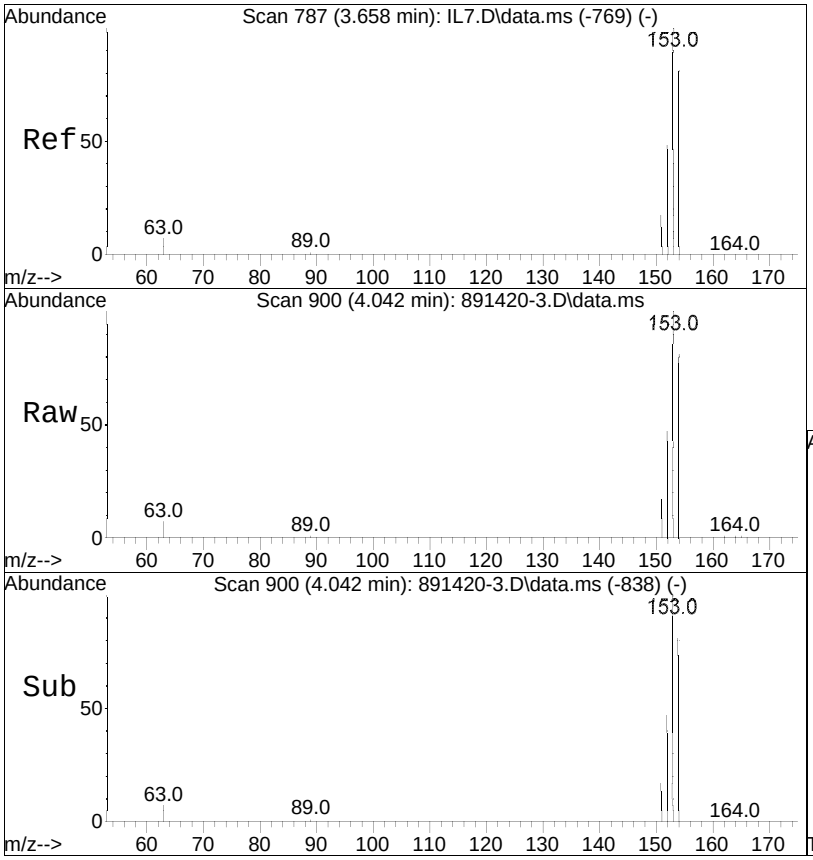


#16
Acenaphthylene
Concen: 3555.65 ng/ml
RT: 3.941 min Scan# 867
Delta R.T. -0.004 min
Lab File: 891420-3.D
Acq: 03 Mar 2024 05:14 pm

Tgt Ion:152 Resp: 7886

Ion	Ratio	Lower	Upper
152	100		
151	20.2	16.4	24.6

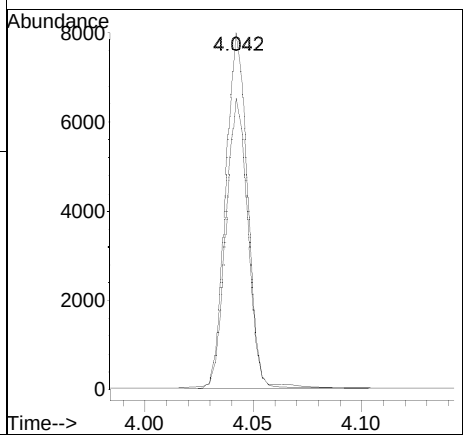


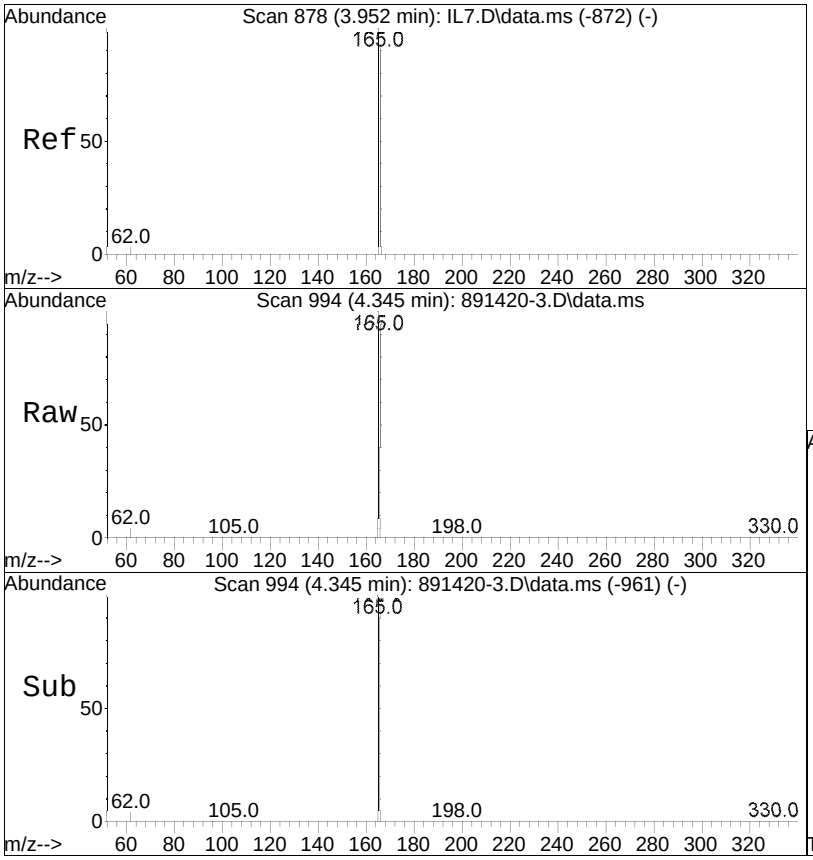


#18
Acenaphthene
Concen: 3341.73 ng/ml
RT: 4.042 min Scan# 900
Delta R.T. -0.007 min
Lab File: 891420-3.D
Acq: 03 Mar 2024 05:14 pm

Tgt Ion:153 Resp: 5533

Ion	Ratio	Lower	Upper
153	100		
154	81.1	65.8	98.6

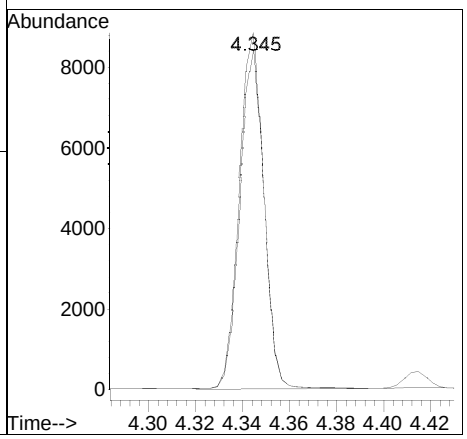


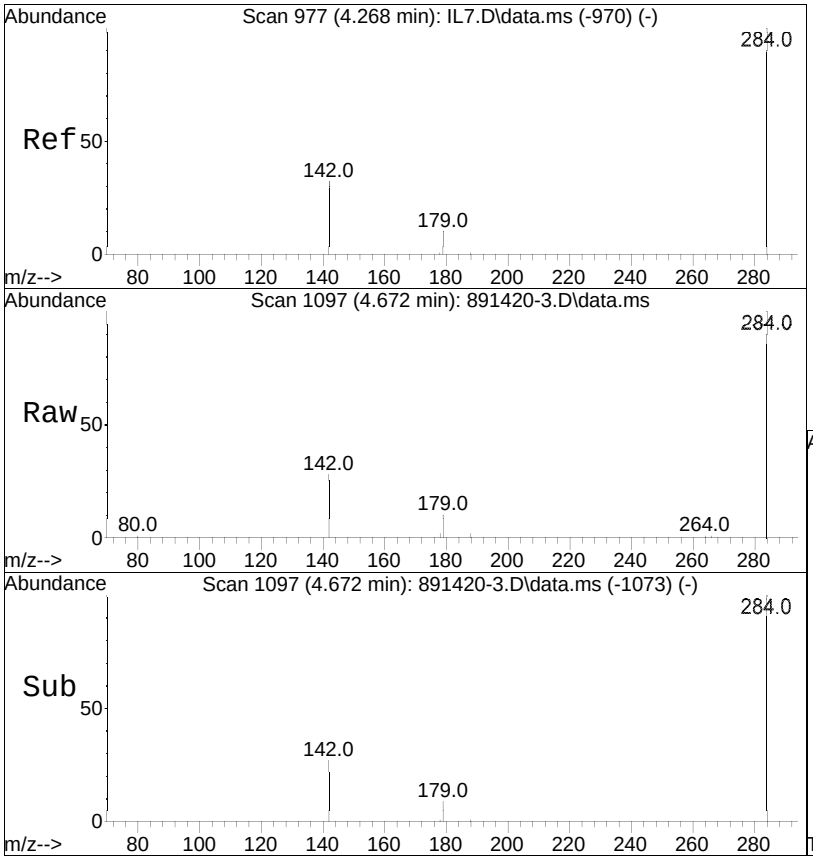


#20
Fluorene
Concen: 3606.76 ng/ml
RT: 4.345 min Scan# 994
Delta R.T. -0.004 min
Lab File: 891420-3.D
Acq: 03 Mar 2024 05:14 pm

Tgt Ion:166 Resp: 6027

Ion	Ratio	Lower	Upper
166	100		
165	105.2	85.7	128.5

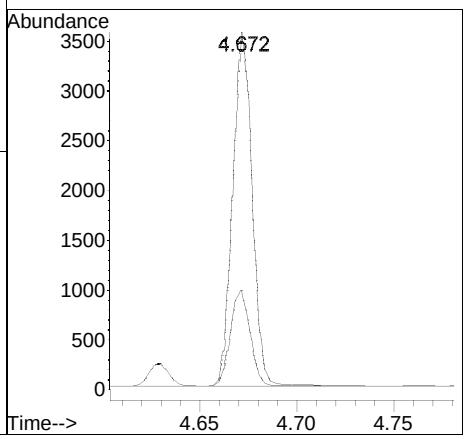


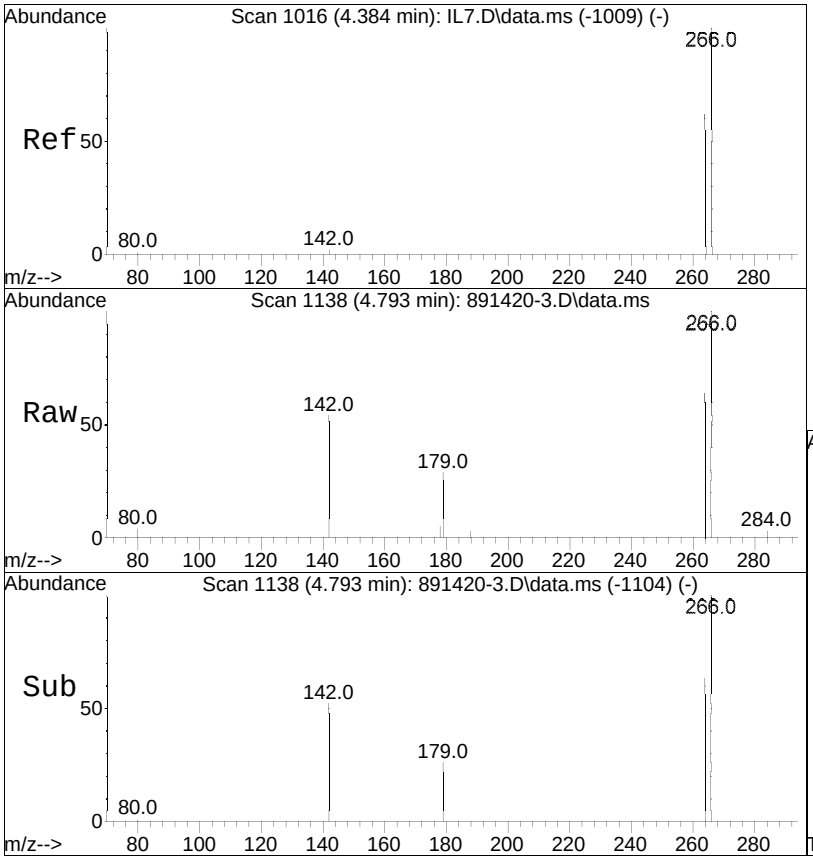


#24
Hexachlorobenzene
Concen: 3172.26 ng/ml
RT: 4.672 min Scan# 1097
Delta R.T. -0.004 min
Lab File: 891420-3.D
Acq: 03 Mar 2024 05:14 pm

Tgt Ion:284 Resp: 2437

Ion	Ratio	Lower	Upper
284	100		
142	27.3	23.9	35.9

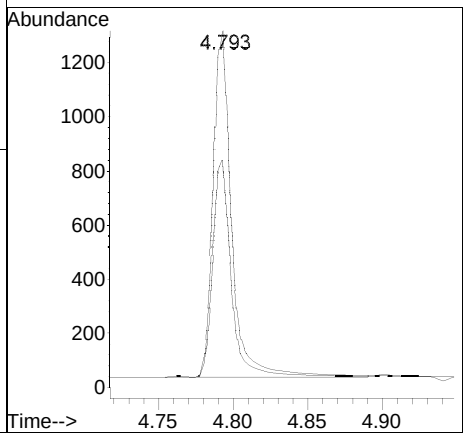


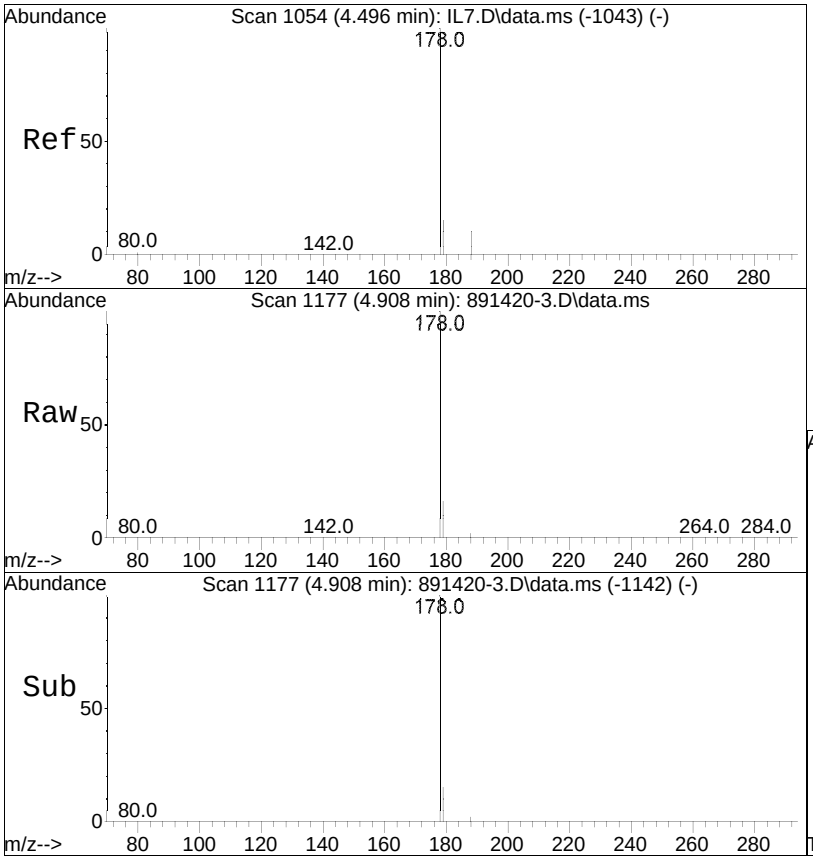


#25
Pentachlorophenol
Concen: 3029.76 ng/ml
RT: 4.793 min Scan# 1138
Delta R.T. -0.004 min
Lab File: 891420-3.D
Acq: 03 Mar 2024 05:14 pm

Tgt Ion:266 Resp: 1111

Ion	Ratio	Lower	Upper
266	100		
264	63.3	49.7	74.5

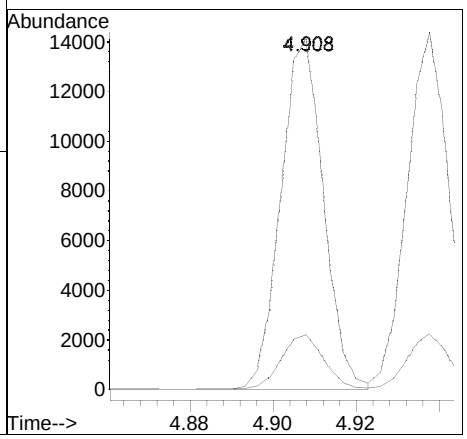


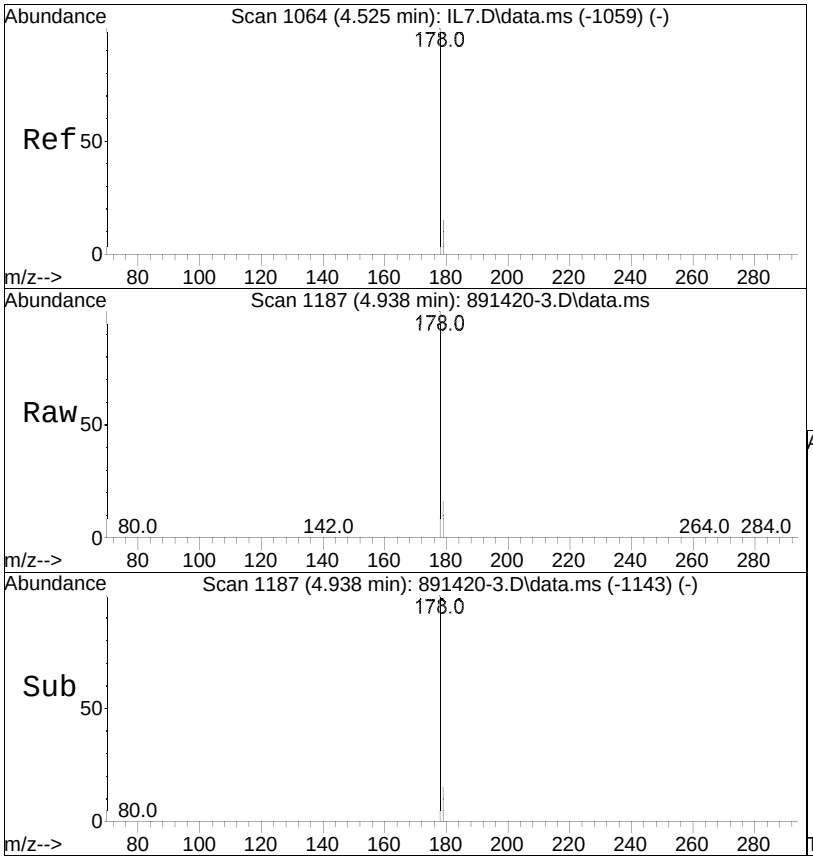


#26
Phenanthrene
Concen: 3192.29 ng/ml
RT: 4.908 min Scan# 1177
Delta R.T. -0.004 min
Lab File: 891420-3.D
Acq: 03 Mar 2024 05:14 pm

Tgt Ion:178 Resp: 9966

Ion	Ratio	Lower	Upper
178	100		
179	15.6	12.2	18.4

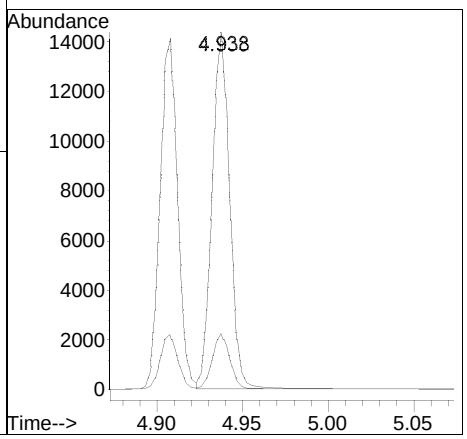


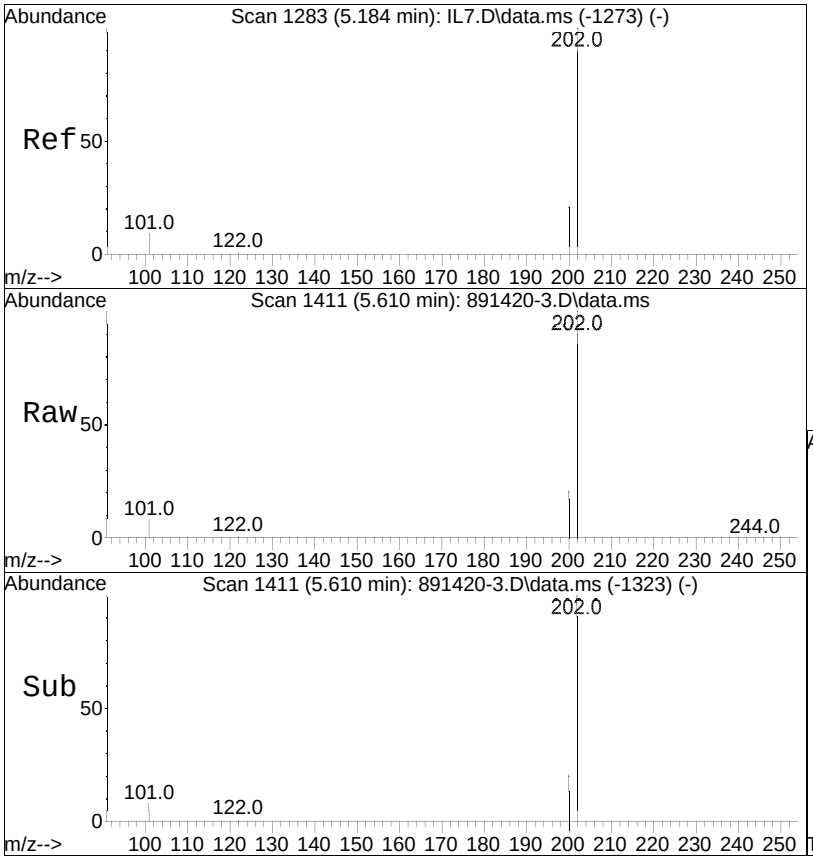


#27
Anthracene
Concen: 3386.31 ng/ml
RT: 4.938 min Scan# 1187
Delta R.T. -0.004 min
Lab File: 891420-3.D
Acq: 03 Mar 2024 05:14 pm

Tgt Ion:178 Resp: 10215

Ion	Ratio	Lower	Upper
178	100		
179	15.4	12.2	18.2

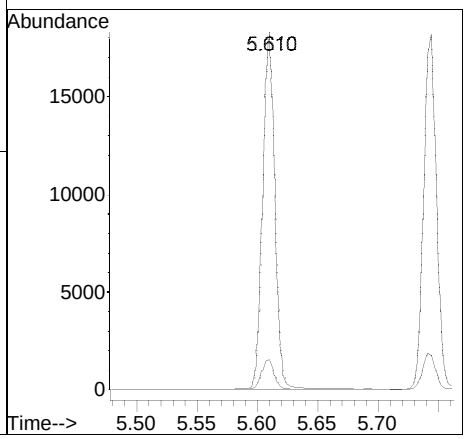


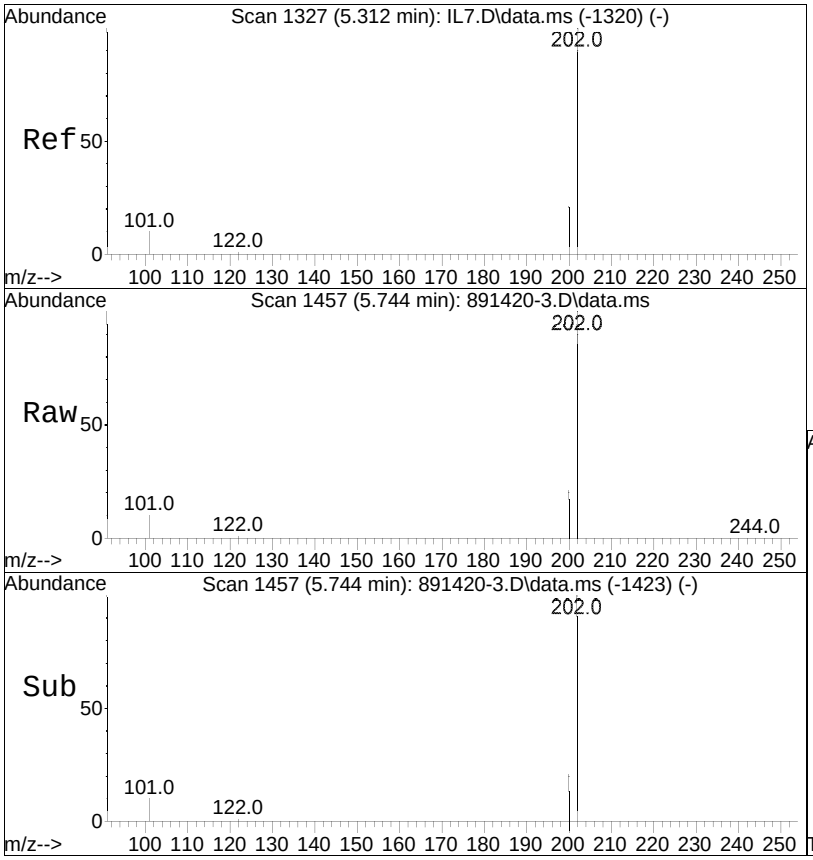


#28
Fluoranthene
Concen: 3736.28 ng/ml
RT: 5.610 min Scan# 1411
Delta R.T. -0.004 min
Lab File: 891420-3.D
Acq: 03 Mar 2024 05:14 pm

Tgt Ion:202 Resp: 12815

Ion	Ratio	Lower	Upper
202	100		
101	8.5	7.2	10.8

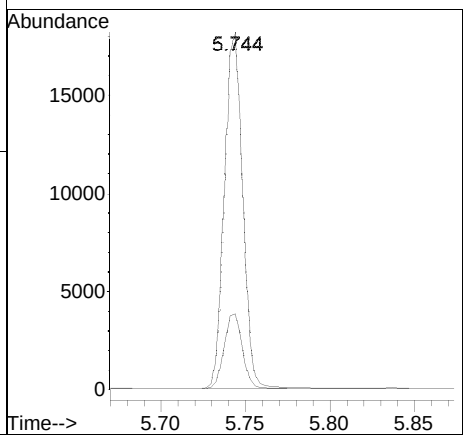


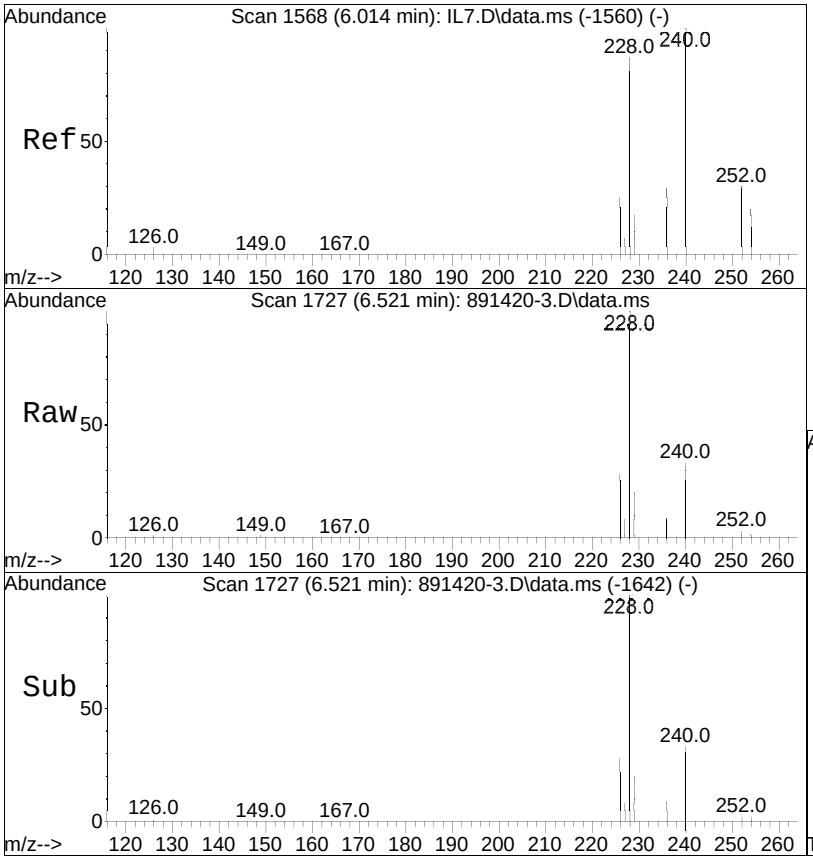


#29
Pyrene
Concen: 3771.55 ng/ml
RT: 5.744 min Scan# 1457
Delta R.T. -0.004 min
Lab File: 891420-3.D
Acq: 03 Mar 2024 05:14 pm

Tgt Ion:202 Resp: 13384

Ion	Ratio	Lower	Upper
202	100		
200	21.3	17.7	26.5

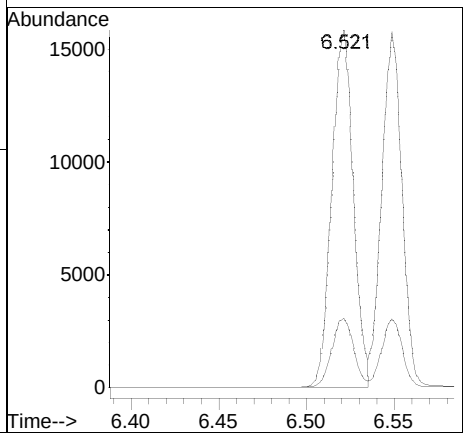


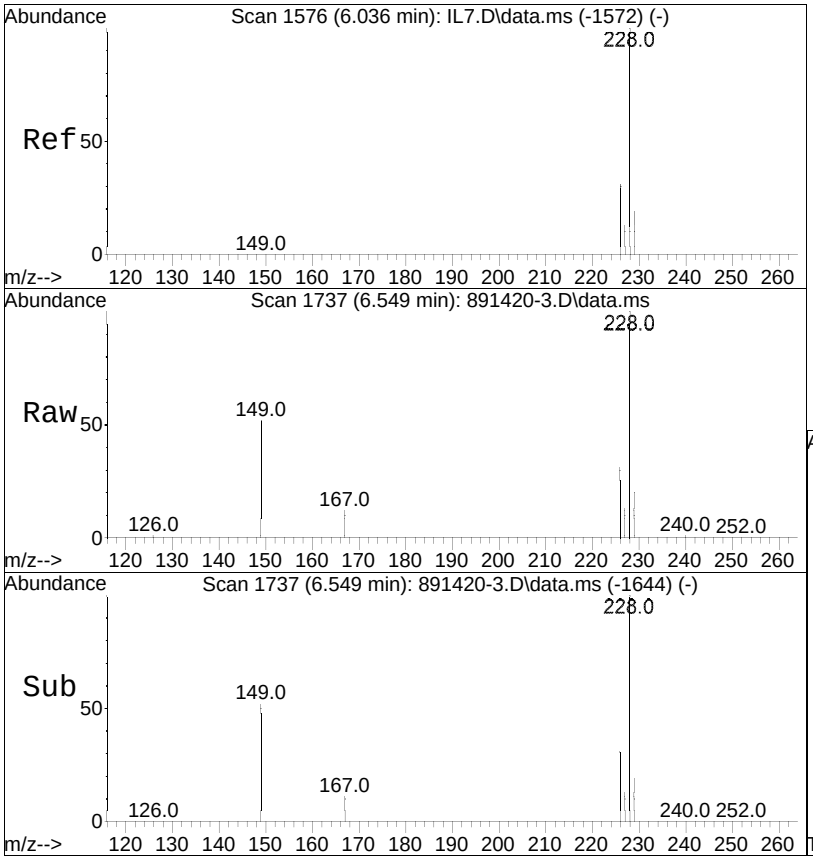


#32
Benzo[a]anthracene
Concen: 3330.06 ng/ml
RT: 6.521 min Scan# 1727
Delta R.T. -0.006 min
Lab File: 891420-3.D
Acq: 03 Mar 2024 05:14 pm

Tgt Ion:228 Resp: 13433

Ion	Ratio	Lower	Upper
228	100		
229	19.6	15.7	23.5

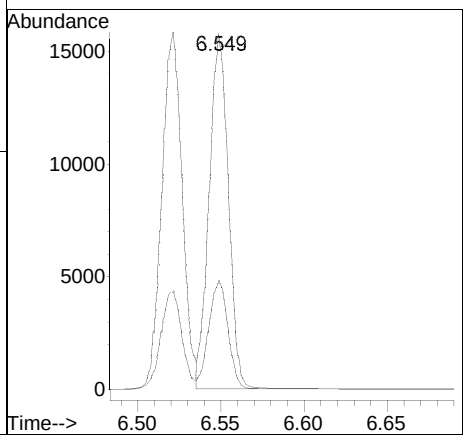


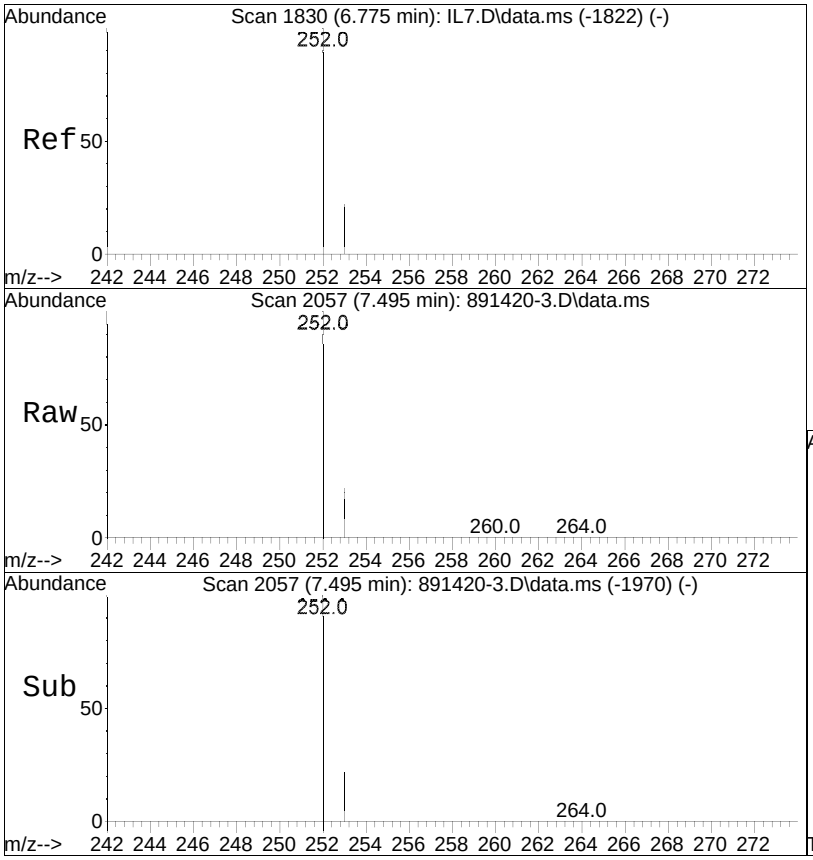


#34
Chrysene
Concen: 3238.75 ng/ml
RT: 6.549 min Scan# 1737
Delta R.T. -0.006 min
Lab File: 891420-3.D
Acq: 03 Mar 2024 05:14 pm

Tgt Ion:228 Resp: 12539

Ion	Ratio	Lower	Upper
228	100		
226	30.7	24.6	36.8

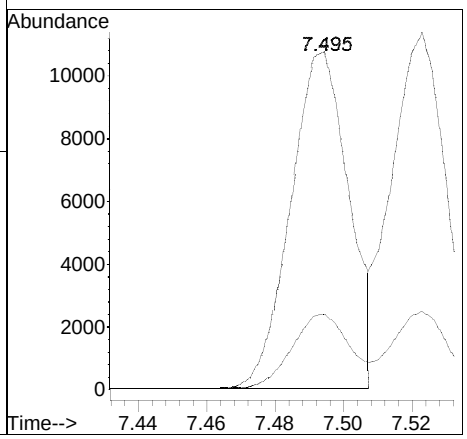


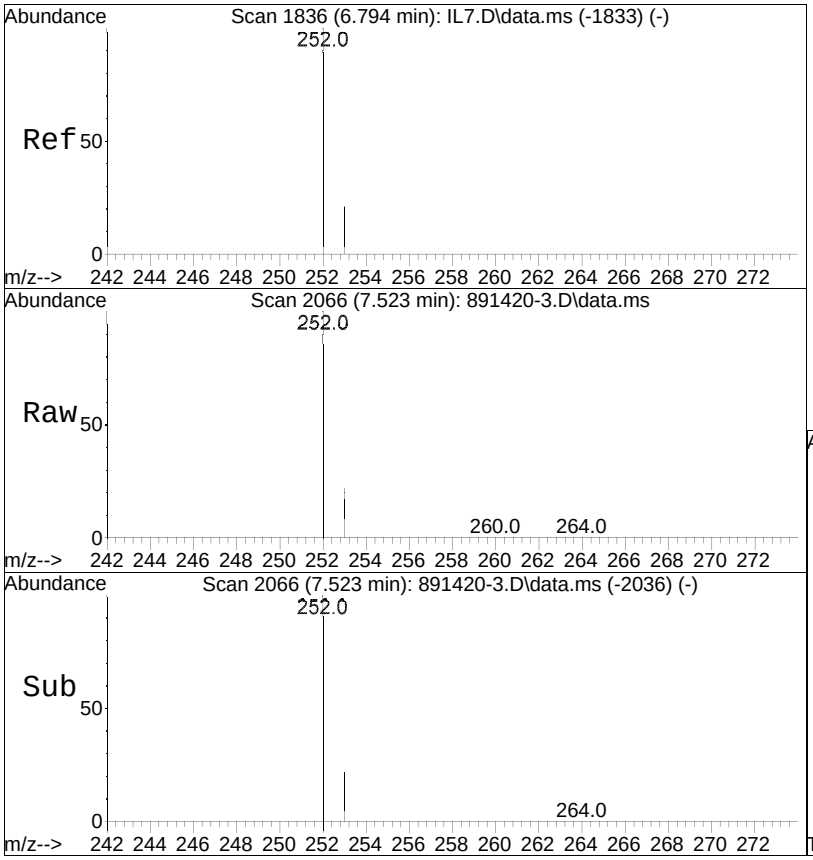


#37
Benzo[b]fluoranthene
Concen: 3501.01 ng/ml
RT: 7.495 min Scan# 2057
Delta R.T. -0.004 min
Lab File: 891420-3.D
Acq: 03 Mar 2024 05:14 pm

Tgt Ion:252 Resp: 12800

Ion	Ratio	Lower	Upper
252	100		
253	21.8	17.1	25.7

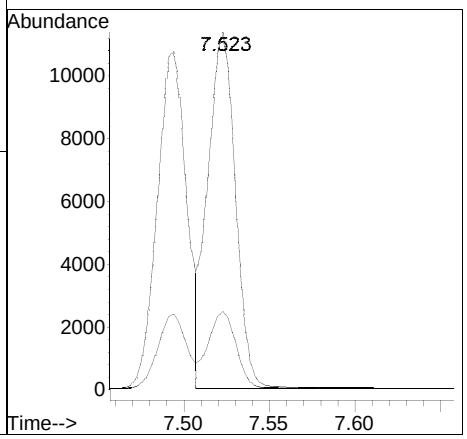


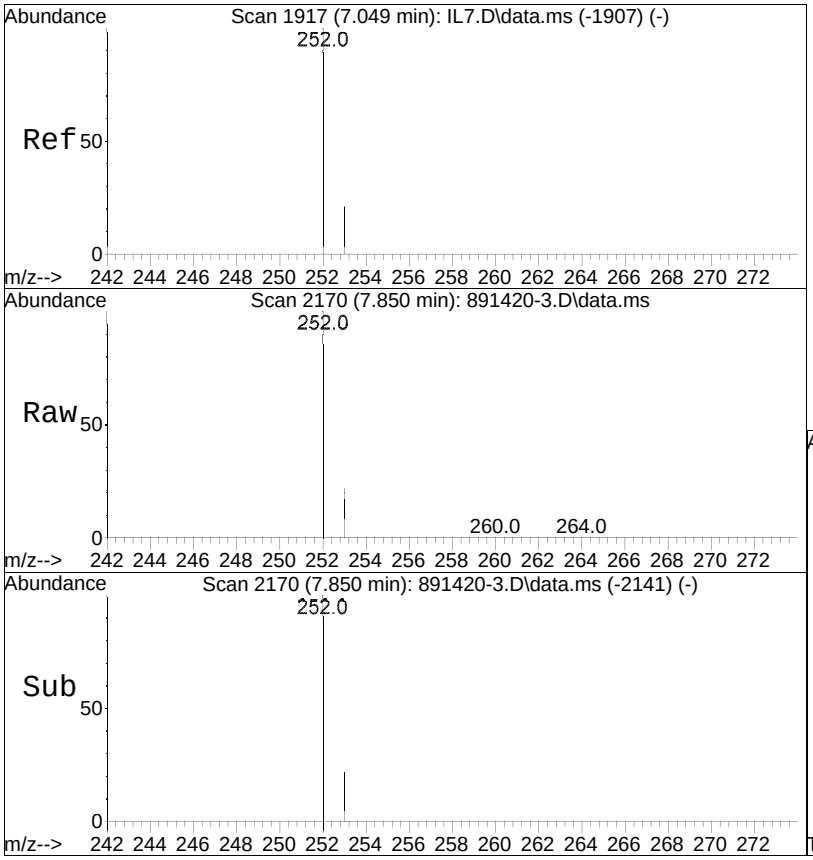


#38
Benzo[k]fluoranthene
Concen: 3705.10 ng/ml
RT: 7.523 min Scan# 2066
Delta R.T. -0.004 min
Lab File: 891420-3.D
Acq: 03 Mar 2024 05:14 pm

Tgt Ion:252 Resp: 12606

Ion	Ratio	Lower	Upper
252	100		
253	21.9	17.3	25.9

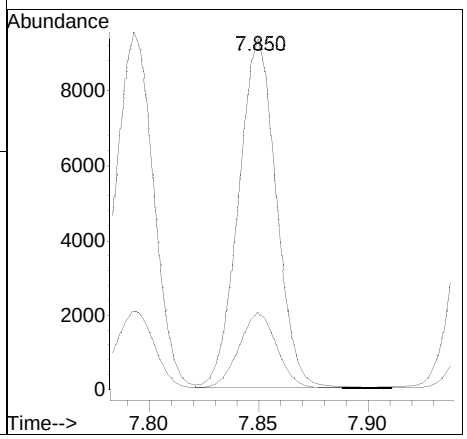


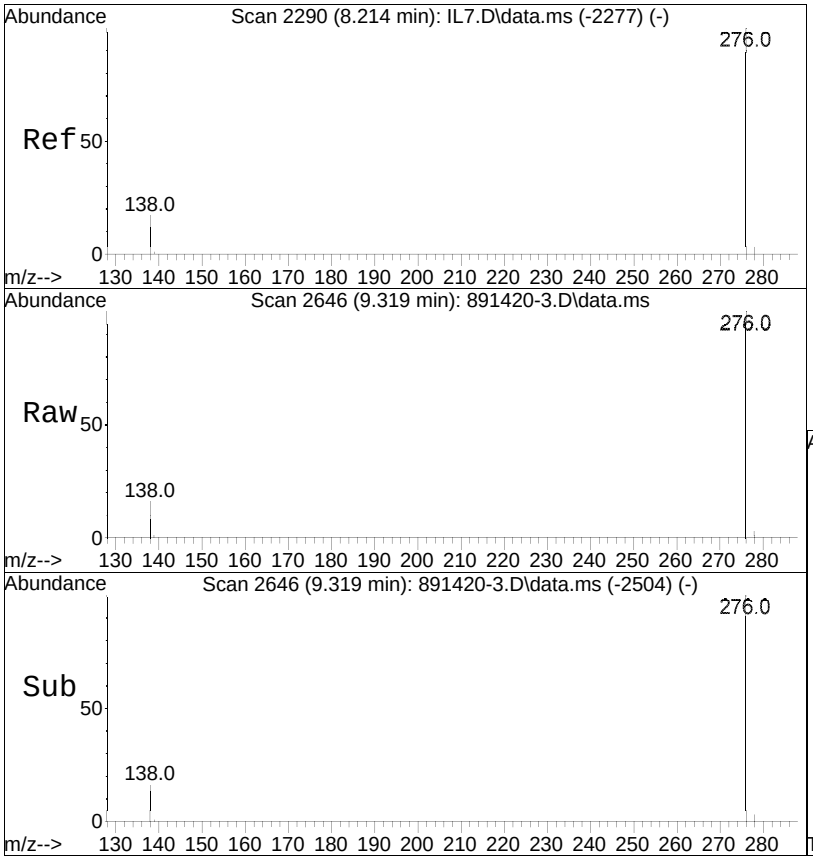


#39
Benzo[a]pyrene
Concen: 3465.13 ng/ml
RT: 7.850 min Scan# 2170
Delta R.T. -0.008 min
Lab File: 891420-3.D
Acq: 03 Mar 2024 05:14 pm

Tgt Ion:252 Resp: 11156

Ion	Ratio	Lower	Upper
252	100		
253	21.6	17.3	25.9

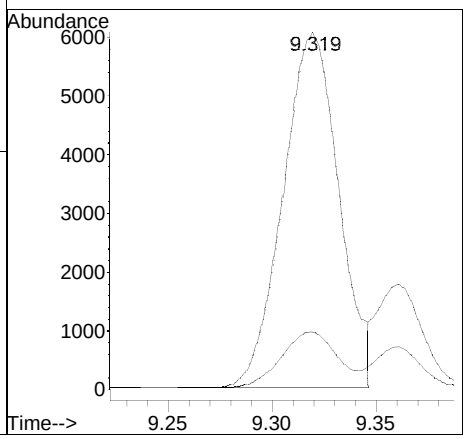


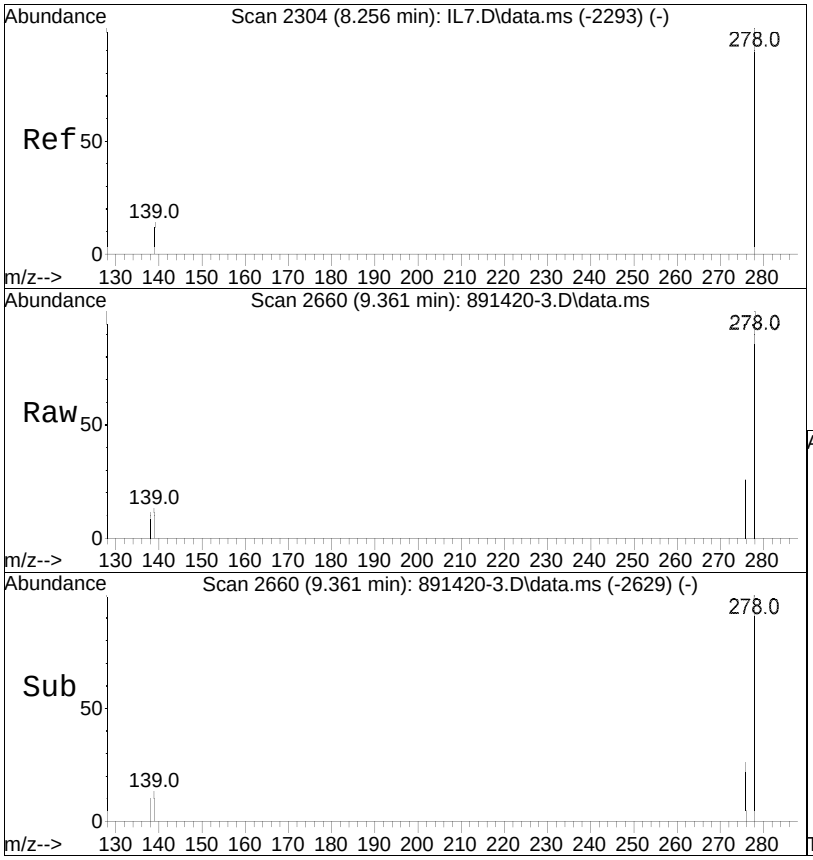


#40
Indeno[1,2,3-cd]pyrene
Concen: 3491.80 ng/ml
RT: 9.319 min Scan# 2646
Delta R.T. -0.007 min
Lab File: 891420-3.D
Acq: 03 Mar 2024 05:14 pm

Tgt Ion:276 Resp: 11241

Ion	Ratio	Lower	Upper
276	100		
138	15.6	13.4	20.2

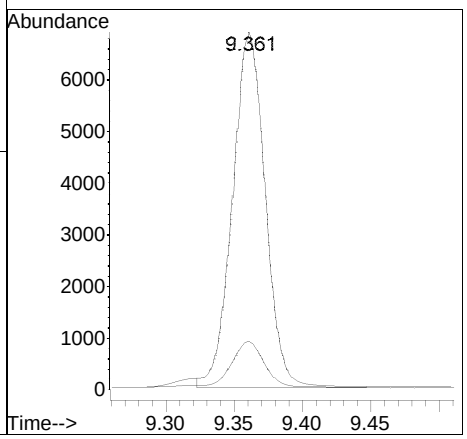


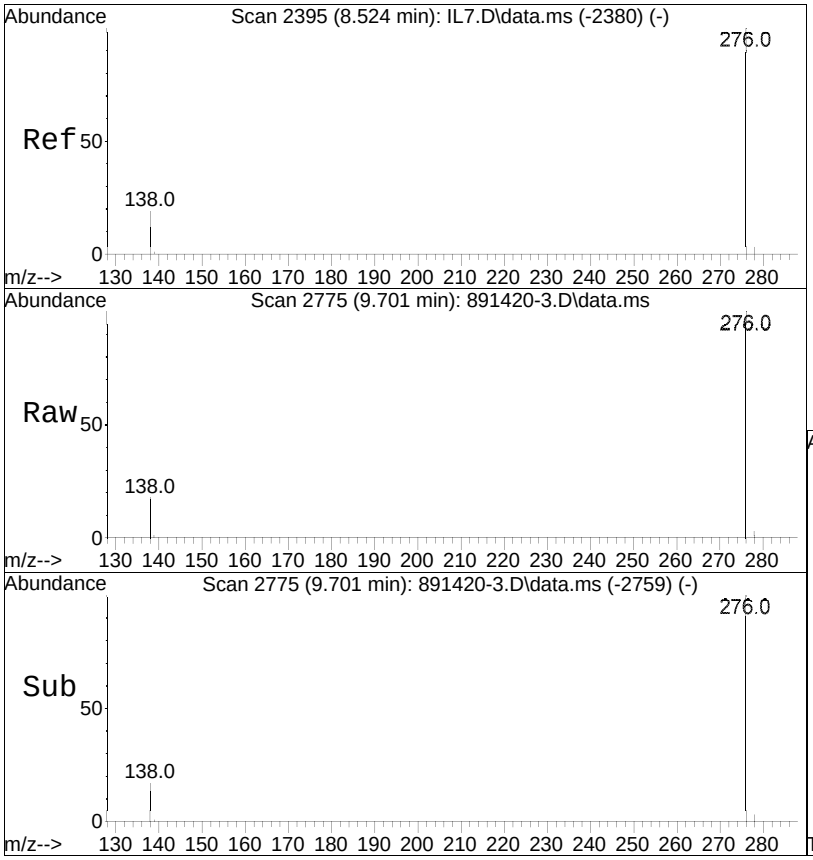


#41
Dibenzo[a,h]anthracene
Concen: 3649.57 ng/ml M6
RT: 9.361 min Scan# 2660
Delta R.T. -0.007 min
Lab File: 891420-3.D
Acq: 03 Mar 2024 05:14 pm

Tgt Ion:278 Resp: 11411

Ion	Ratio	Lower	Upper
278	100		
139	12.7	10.9	16.3

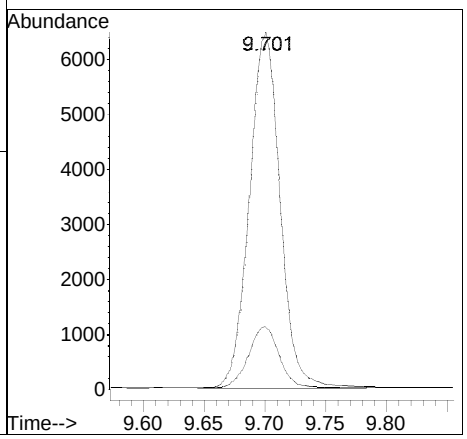




#42
Benzo[g,h,i]perylene
Concen: 3348.62 ng/ml M1
RT: 9.701 min Scan# 2775
Delta R.T. -0.004 min
Lab File: 891420-3.D
Acq: 03 Mar 2024 05:14 pm

Tgt Ion:276 Resp: 11205

Ion	Ratio	Lower	Upper
276	100		
138	17.0	14.8	22.2

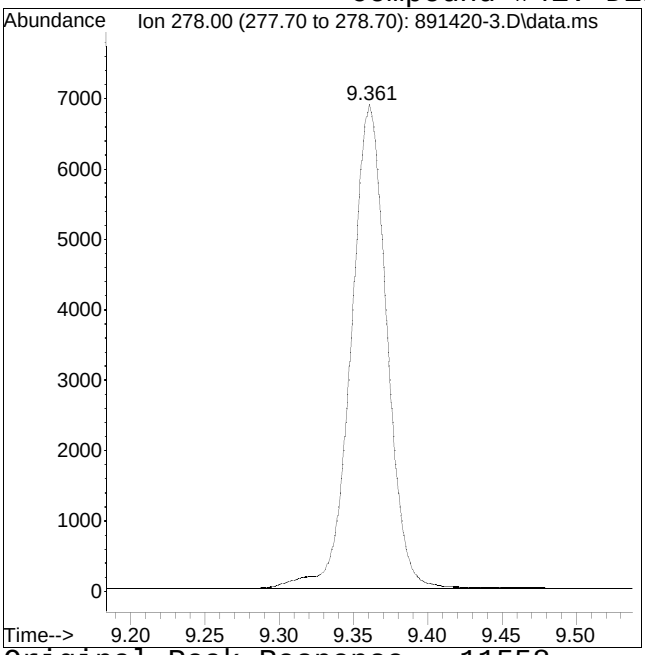


Manual Integration Report

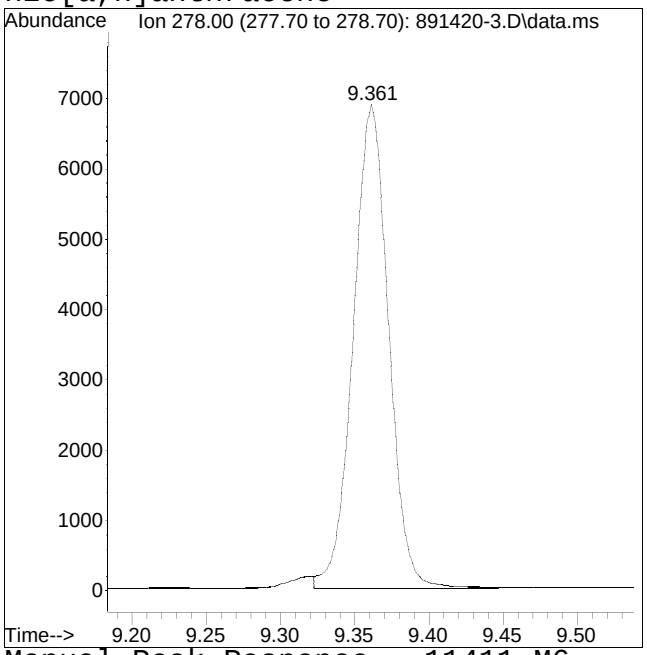
Data Path : I:\8270SIM\SV128\240303\
Data File : 891420-3.D
Date Inj'd : 3/3/2024 5:14 pm
Sample : WG1891420-3,32,,ah

QMethod : SIM-LVI_231211_sv128.M
Operator : SV128:jjw
Instrument : SV128
Quant Date : 3/3/2024 5:29 pm

Compound #41: Dibenzo[a,h]anthracene



Original Peak Response = 11558



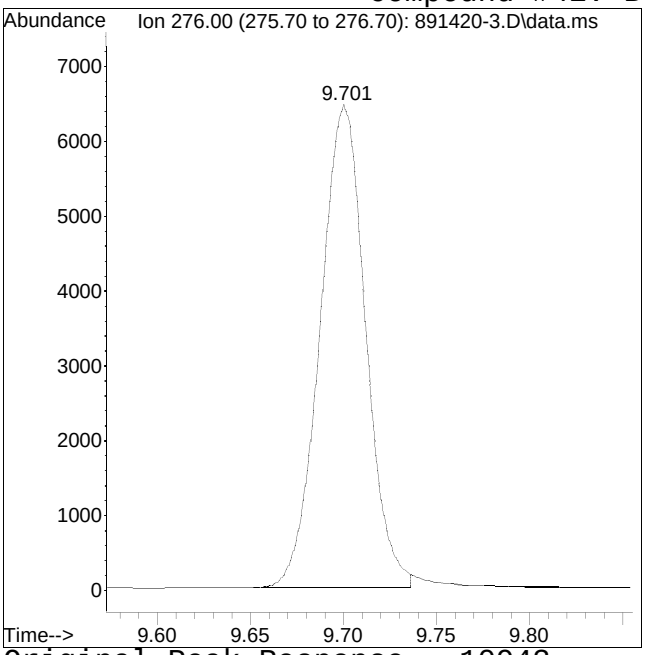
Manual Peak Response = 11411 M6

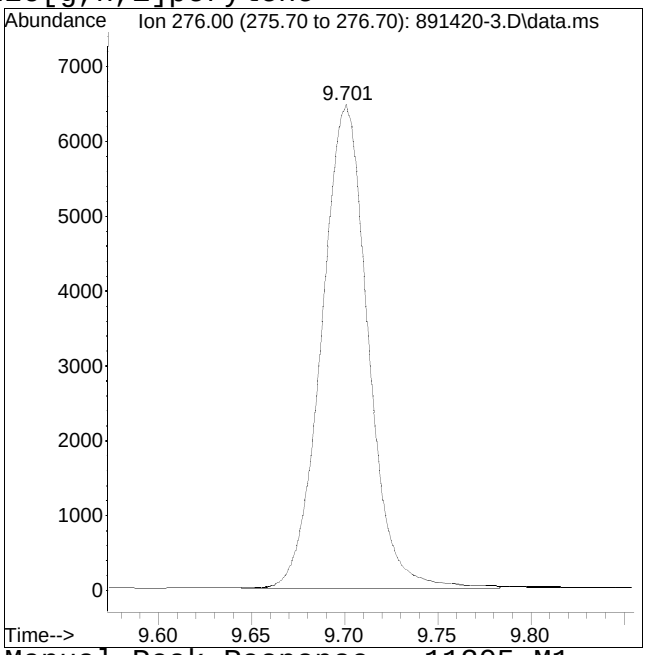
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

Data Path : I:\8270SIM\SV128\240303\ QMethod : SIM-LVI_231211_sv128.M
Data File : 891420-3.D Operator : SV128:jjw
Date Inj'd : 3/3/2024 5:14 pm Instrument : SV128
Sample : WG1891420-3,32,,ah Quant Date : 3/3/2024 5:29 pm

Compound #42: Benzo[g,h,i]perylene





Original Peak Response = 10943 Manual Peak Response = 11205 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\240305LVI\
Data File : 92049-3r.D
Acq On : 05 Mar 2024 03:28 pm
Operator : sv119:jjw
Sample : WG1892049-3,32,,RR,jjw
Misc : WG1892203,WG1892049,ical20642
ALS Vial : 30 Sample Multiplier: 1

Quant Time: Mar 05 15:52:43 2024
Quant Method : I:\8270sim\sv119\240305LVI\SIM-LVI_231207n_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Mar 05 06:52:34 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv119\240305LVI\ccv0305.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.152	152	38810	4000.000	ng/ml	0.01
Standard Area 1 = 36011			Recovery = 107.77%			
8) Naphthalene-d8	2.809	136	137334	4000.000	ng/ml	0.00
Standard Area 1 = 124401			Recovery = 110.40%			
17) Acenaphthene-d10	3.774	164	76438	4000.000	ng/ml	0.00
Standard Area 1 = 72135			Recovery = 105.97%			
22) Phenanthrene-d10	4.604	188	166634	4000.000	ng/ml	0.00
Standard Area 1 = 164519			Recovery = 101.29%			
31) Chrysene-d12	6.122	240	122330	4000.000	ng/ml	-0.02
Standard Area 1 = 159349			Recovery = 76.77%			
36) Perylene-d12	7.230	264	133032	4000.000	ng/ml	-0.02
Standard Area 1 = 166959			Recovery = 79.68%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.562	112	32736	3083.885	ng/ml	0.01
Spiked Amount 5000.000	Range 15 - 110		Recovery = 61.68%			
3) Phenol-d6	1.972	99	33766	2653.653	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 53.07%			
7) Nitrobenzene-d5	2.429	82	18126	1877.964	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 75.12%			
13) 2-Fluorobiphenyl	3.402	172	49985	1629.663	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 65.19%			
21) 2,4,6-Tribromophenol	4.215	330	17451	4141.050	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 82.82%			
30) 4-Terphenyl-d14	5.512	244	56035	1371.738	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 54.87%			
Target Compounds						Qvalue
6) Hexachloroethane	2.408	117	15110	3147.222	ng/ml	80
9) Naphthalene	2.821	128	112409	3427.876	ng/ml	100
10) Hexachlorobutadiene	2.893	225	24653	3490.862	ng/ml	99
11) 2-Methylnaphthalene	3.196	142	80679	3327.452	ng/ml	96
14) 2-Chloronaphthalene	3.465	162	86813	3361.264	ng/ml	98
16) Acenaphthylene	3.694	152	131263	3419.989	ng/ml	99
18) Acenaphthene	3.792	153	84052	3556.944	ng/ml	98
20) Fluorene	4.079	166	101883	3607.035	ng/ml	97
24) Hexachlorobenzene	4.392	284	39477	3664.611	ng/ml	95
25) Pentachlorophenol	4.503	266	14789	2156.487	ng/ml	99

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\240305LVI\
Data File : 92049-3r.D
Acq On : 05 Mar 2024 03:28 pm
Operator : sv119:jjw
Sample : WG1892049-3,32,,RR,jjw
Misc : WG1892203,WG1892049,ical20642
ALS Vial : 30 Sample Multiplier: 1

Quant Time: Mar 05 15:52:43 2024
Quant Method : I:\8270sim\sv119\240305LVI\SIM-LVI_231207n_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Mar 05 06:52:34 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv119\240305LVI\ccv0305.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Phenanthrene	4.617	178	155155	3665.546	ng/ml	100
27) Anthracene	4.645	178	157782	3758.945	ng/ml	100
28) Fluoranthene	5.289	202	192166	3444.670	ng/ml	96
29) Pyrene	5.417	202	194796	3398.841	ng/ml	98
32) Benzo[a]anthracene	6.116	228	180964	4447.282	ng/ml	100
34) Chrysene	6.140	228	167370	4145.539	ng/ml	99
37) Benzo[b]fluoranthene	6.889	252	179716	3866.896	ng/ml	99
38) Benzo[k]fluoranthene	6.912	252	165052	3740.020	ng/ml	99
39) Benzo[a]pyrene	7.173	252	153225	3745.549	ng/ml	100
40) Indeno[1,2,3-cd]pyrene	8.359	276	193649	4355.517	ng/ml	99
41) Dibenzo[a,h]anthracene	8.397	278	163268M3	3946.916	ng/ml	
42) Benzo[g,h,i]perylene	8.681	276	179477	3968.529	ng/ml	99

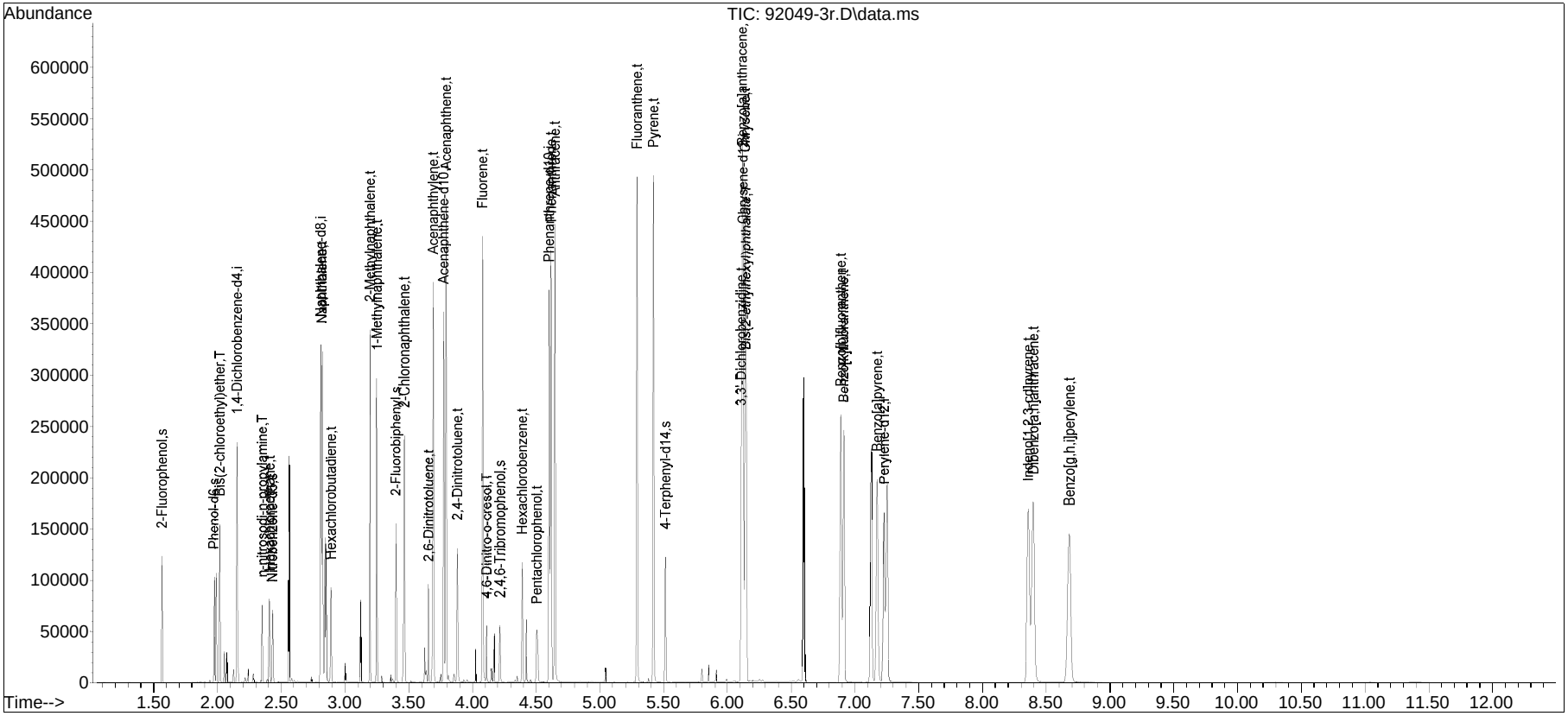
(#) = qualifier out of range (m) = manual integration (+) = signals summed

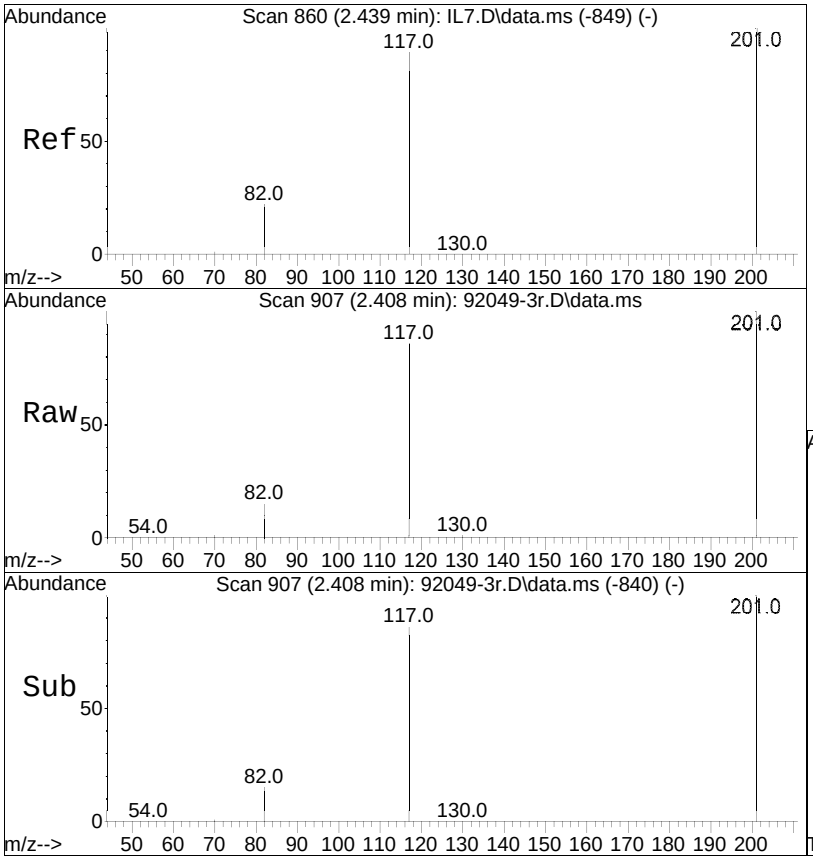
Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\240305LVI\
Data File : 92049-3r.D
Acq On : 05 Mar 2024 03:28 pm
Operator : sv119:jjw
Sample : WG1892049-3,32,,RR,jjw
Misc : WG1892203,WG1892049,ical20642
ALS Vial : 30 Sample Multiplier: 1

Quant Time: Mar 05 15:52:43 2024
Quant Method : I:\8270sim\sv119\240305LVI\SIM-LVI_231207n_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Mar 05 06:52:34 2024
Response via : Initial Calibration

Sub List : DEFAULT - All compounds listed\ccv0305.D•

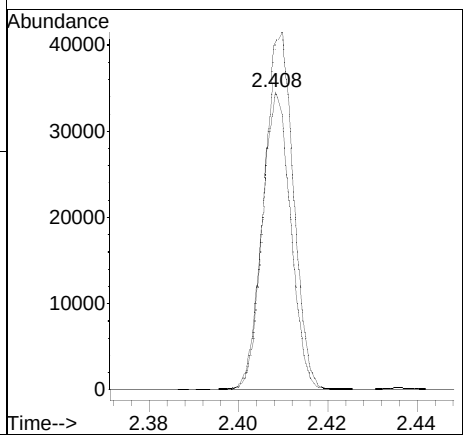


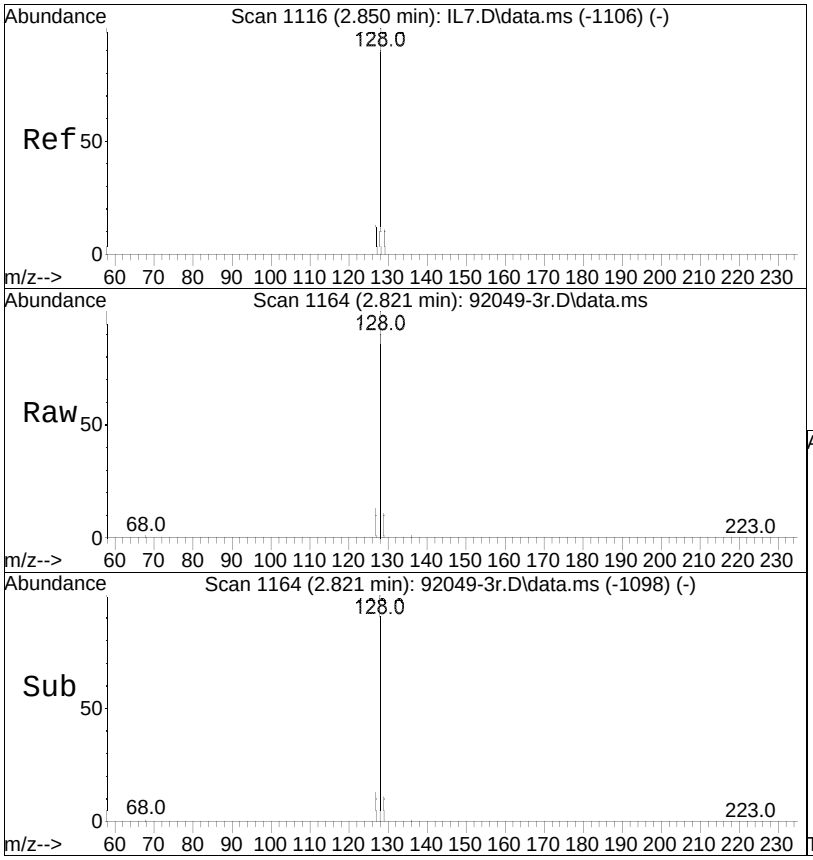


#6
Hexachloroethane
Concen: 3147.22 ng/ml
RT: 2.408 min Scan# 907
Delta R.T. 0.007 min
Lab File: 92049-3r.D
Acq: 05 Mar 2024 03:28 pm

Tgt Ion:117 Resp: 15110

Ion	Ratio	Lower	Upper
117	100		
201	121.9	81.5	122.3

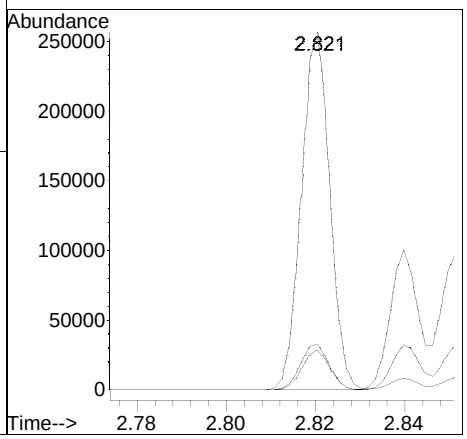


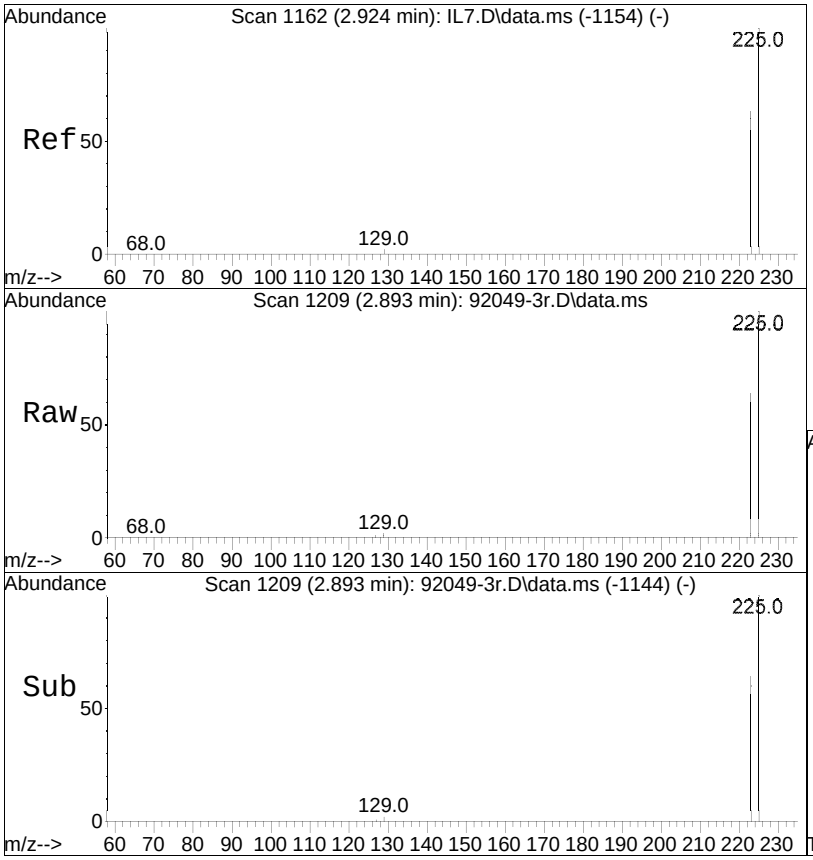


#9
Naphthalene
Concen: 3427.88 ng/ml
RT: 2.821 min Scan# 1164
Delta R.T. 0.007 min
Lab File: 92049-3r.D
Acq: 05 Mar 2024 03:28 pm

Tgt Ion:128 Resp: 112409

Ion	Ratio	Lower	Upper
128	100		
129	11.0	8.8	13.2
127	13.0	10.6	15.8

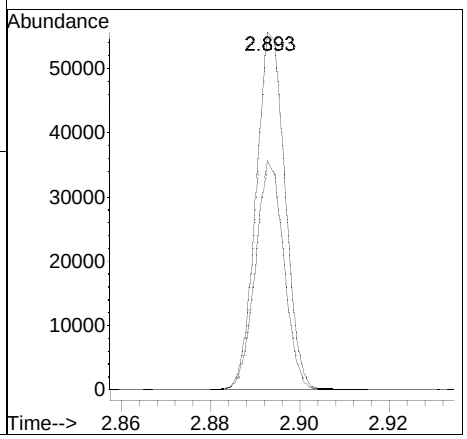


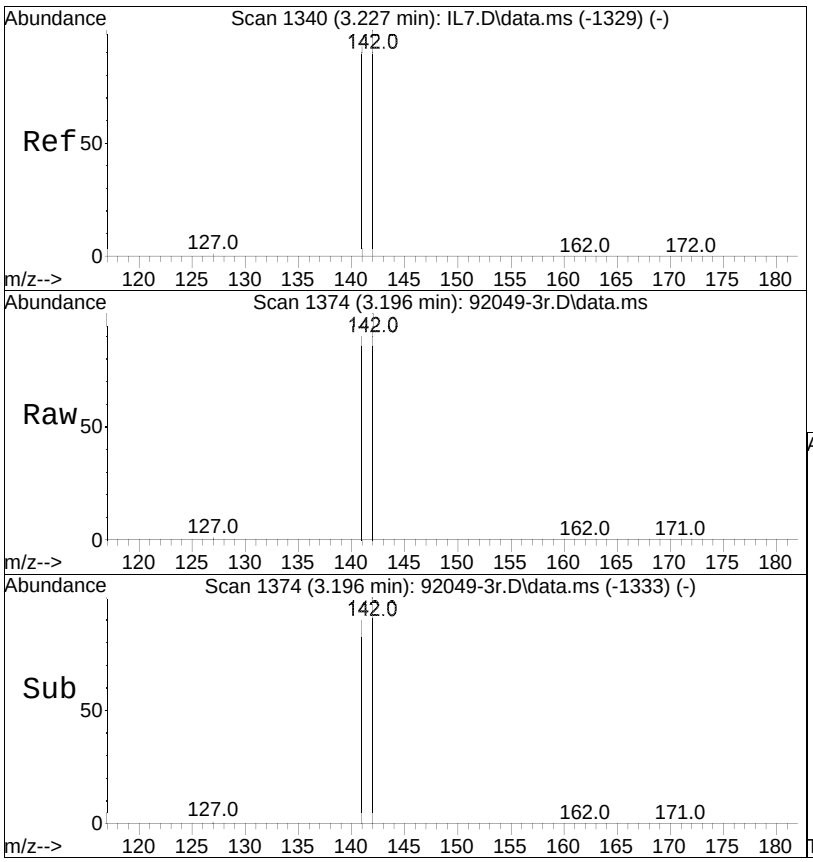


#10
Hexachlorobutadiene
Concen: 3490.86 ng/ml
RT: 2.893 min Scan# 1209
Delta R.T. 0.005 min
Lab File: 92049-3r.D
Acq: 05 Mar 2024 03:28 pm

Tgt Ion:225 Resp: 24653

Ion	Ratio	Lower	Upper
225	100		
223	63.0	50.1	75.1

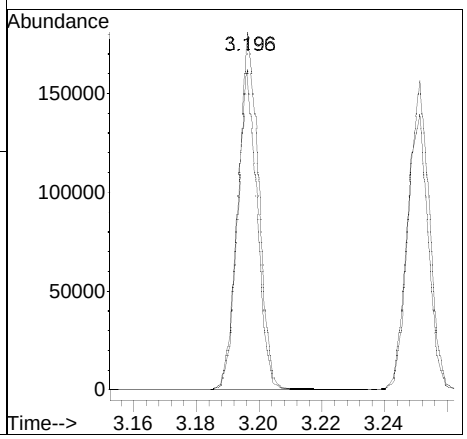


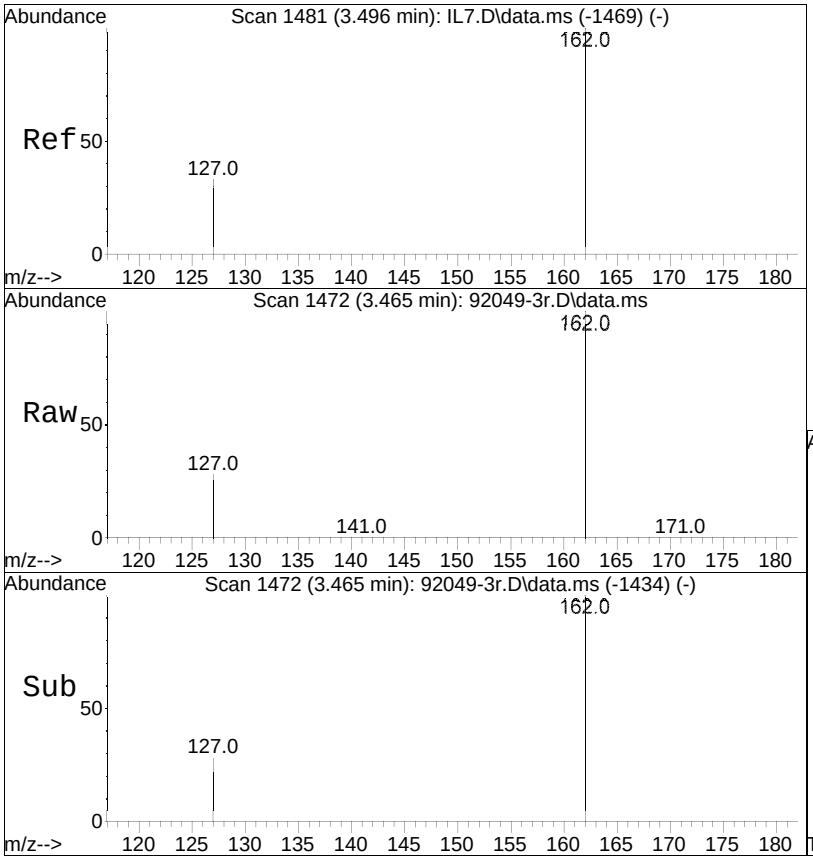


#11
2-Methylnaphthalene
Concen: 3327.45 ng/ml
RT: 3.196 min Scan# 1374
Delta R.T. 0.004 min
Lab File: 92049-3r.D
Acq: 05 Mar 2024 03:28 pm

Tgt Ion:142 Resp: 80679

Ion	Ratio	Lower	Upper
142	100		
141	89.1	74.1	111.1

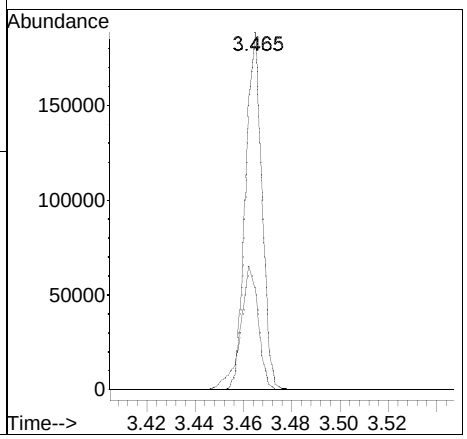


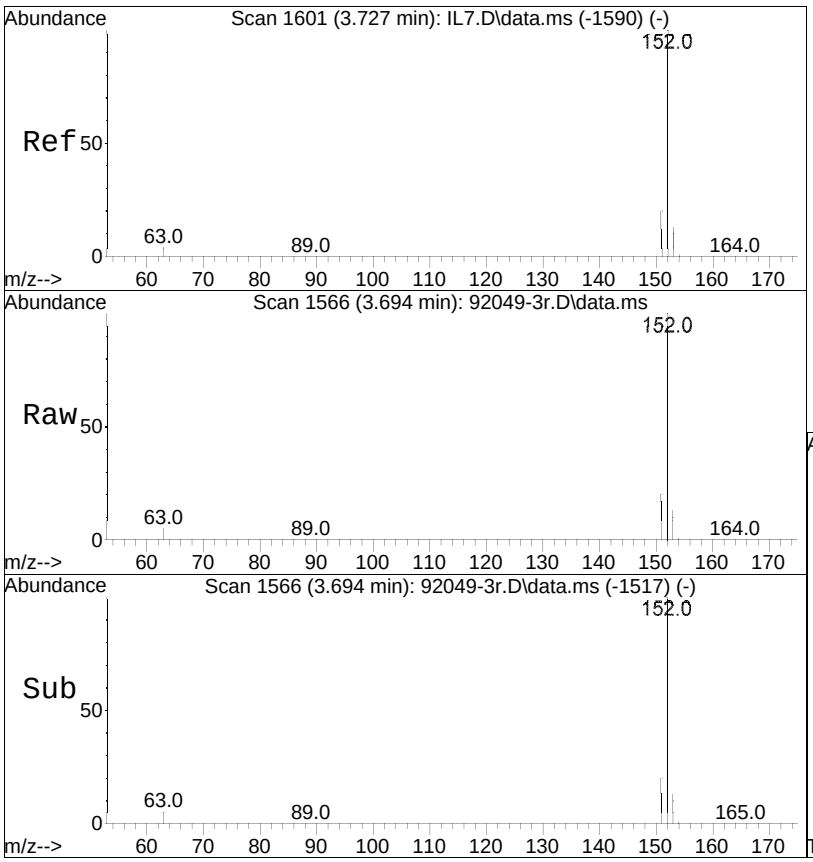


#14
2-Chloronaphthalene
Concen: 3361.26 ng/ml
RT: 3.465 min Scan# 1472
Delta R.T. 0.004 min
Lab File: 92049-3r.D
Acq: 05 Mar 2024 03:28 pm

Tgt Ion:162 Resp: 86813

Ion	Ratio	Lower	Upper
162	100		
127	38.6	29.7	44.5

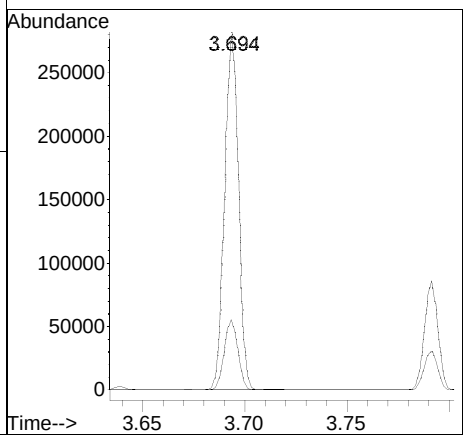


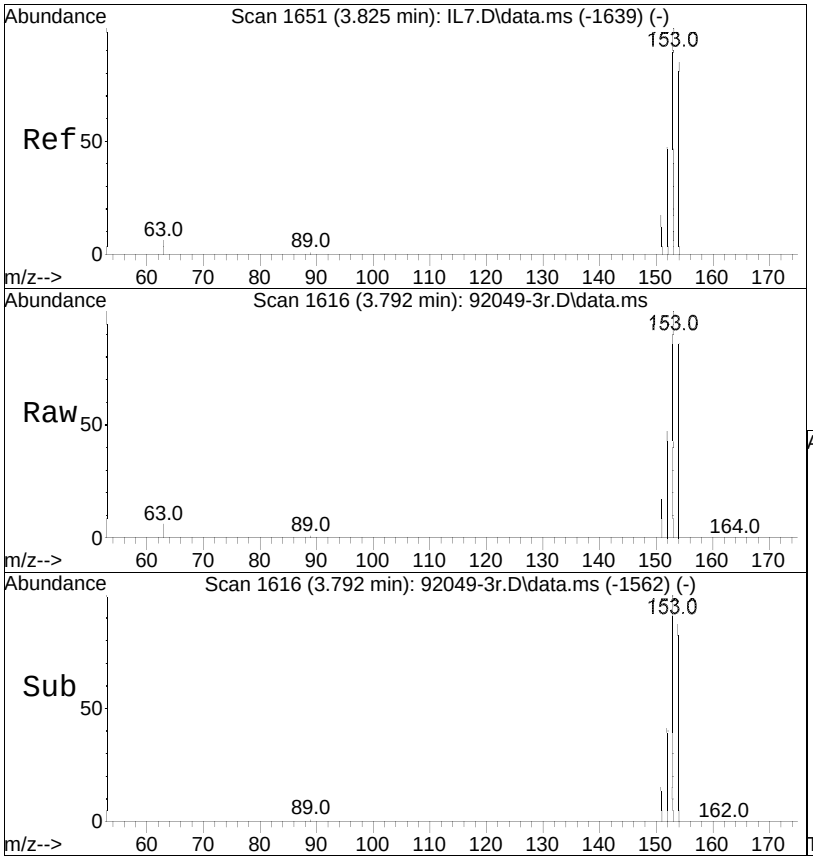


#16
Acenaphthylene
Concen: 3419.99 ng/ml
RT: 3.694 min Scan# 1566
Delta R.T. 0.005 min
Lab File: 92049-3r.D
Acq: 05 Mar 2024 03:28 pm

Tgt Ion:152 Resp: 131263

Ion	Ratio	Lower	Upper
152	100		
151	19.8	16.0	24.0

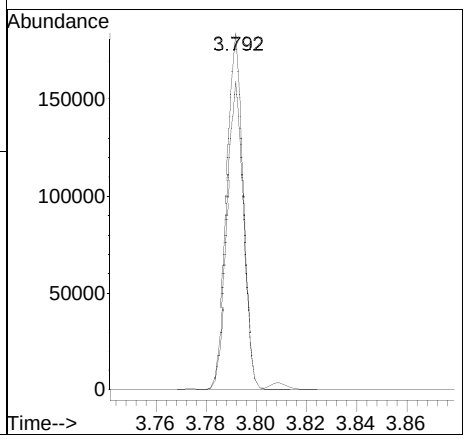


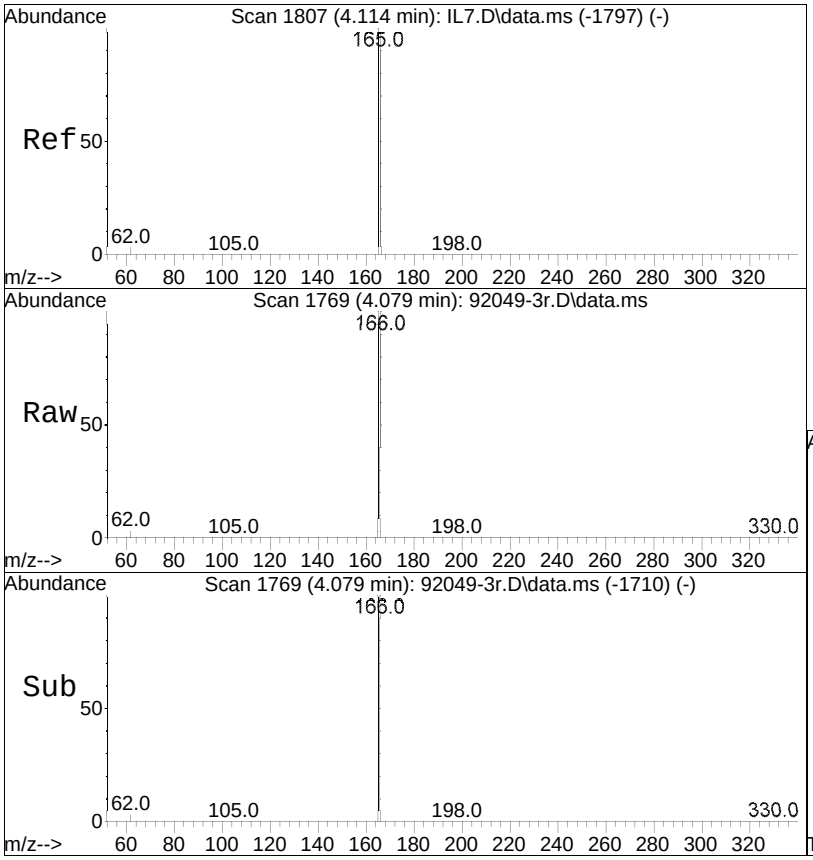


#18
Acenaphthene
Concen: 3556.94 ng/ml
RT: 3.792 min Scan# 1616
Delta R.T. 0.005 min
Lab File: 92049-3r.D
Acq: 05 Mar 2024 03:28 pm

Tgt Ion:153 Resp: 84052

Ion	Ratio	Lower	Upper
153	100		
154	85.8	66.9	100.3

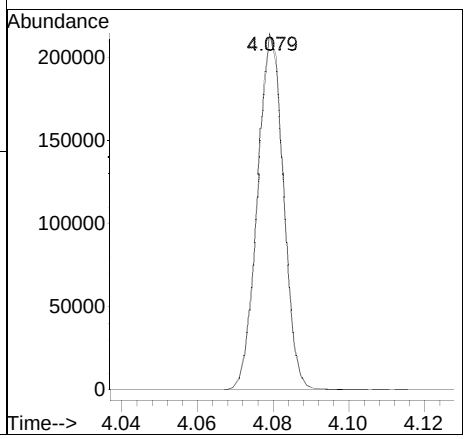


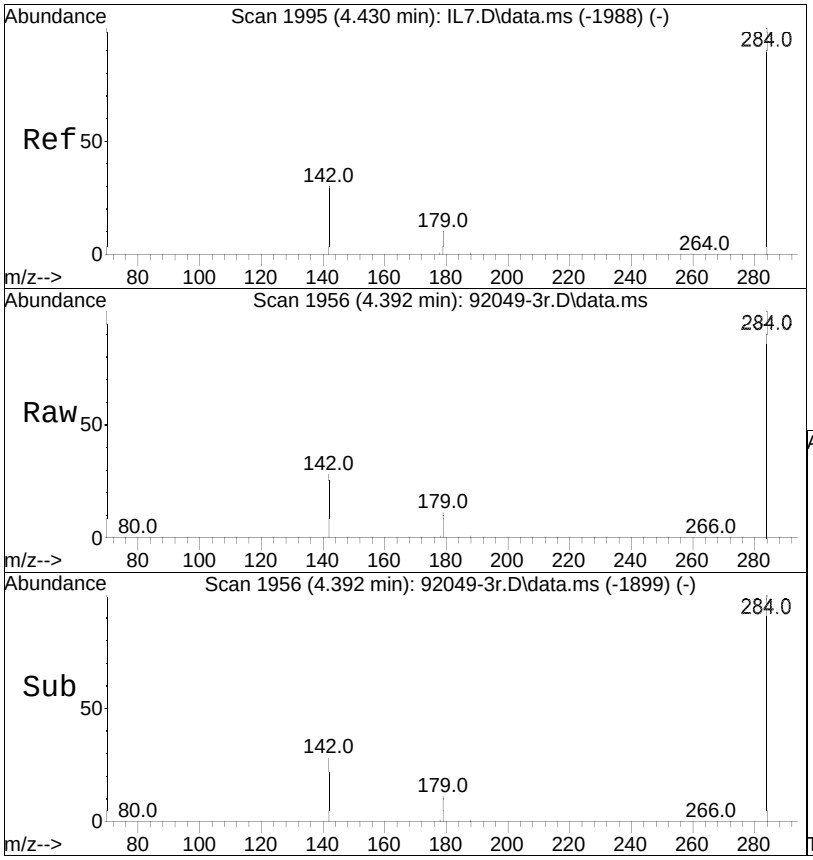


#20
Fluorene
Concen: 3607.04 ng/ml
RT: 4.079 min Scan# 1769
Delta R.T. 0.003 min
Lab File: 92049-3r.D
Acq: 05 Mar 2024 03:28 pm

Tgt Ion:166 Resp: 101883

Ion	Ratio	Lower	Upper
166	100		
165	100.4	82.9	124.3

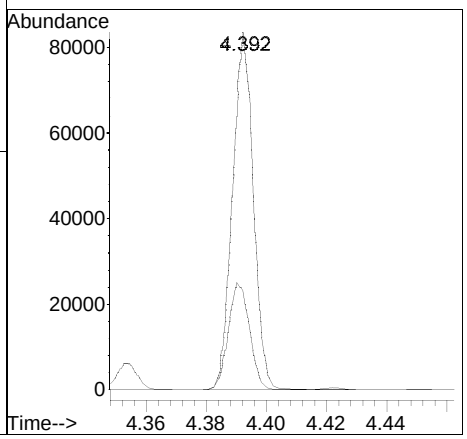


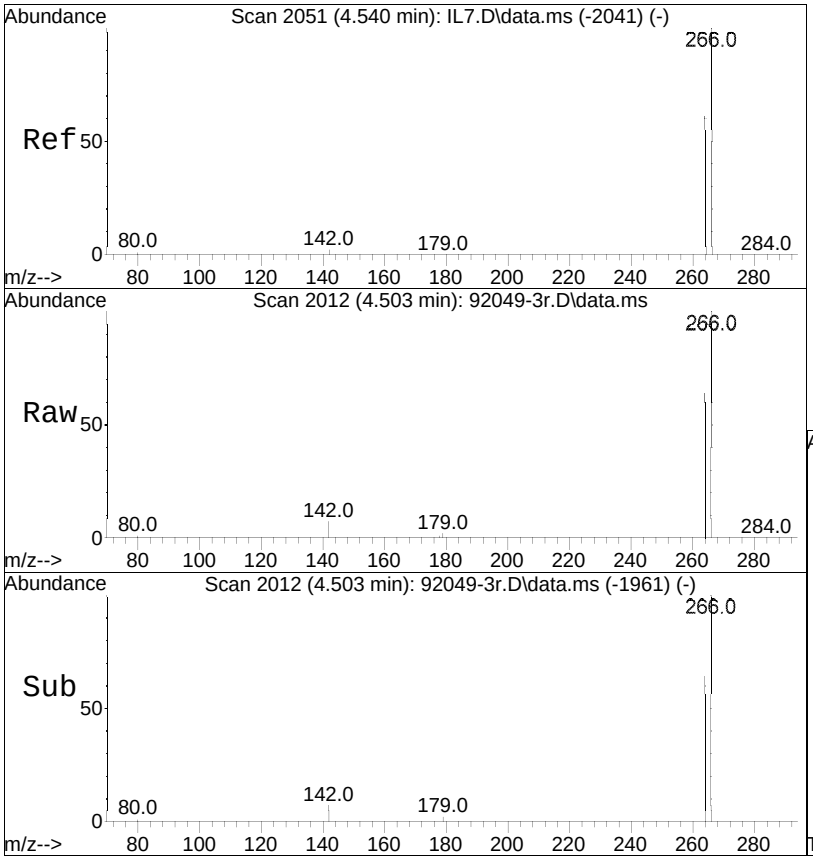


#24
Hexachlorobenzene
Concen: 3664.61 ng/ml
RT: 4.392 min Scan# 1956
Delta R.T. 0.003 min
Lab File: 92049-3r.D
Acq: 05 Mar 2024 03:28 pm

Tgt Ion:284 Resp: 39477

Ion	Ratio	Lower	Upper
284	100		
142	30.8	26.9	40.3

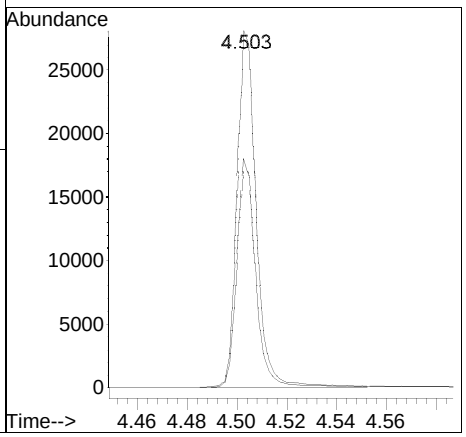


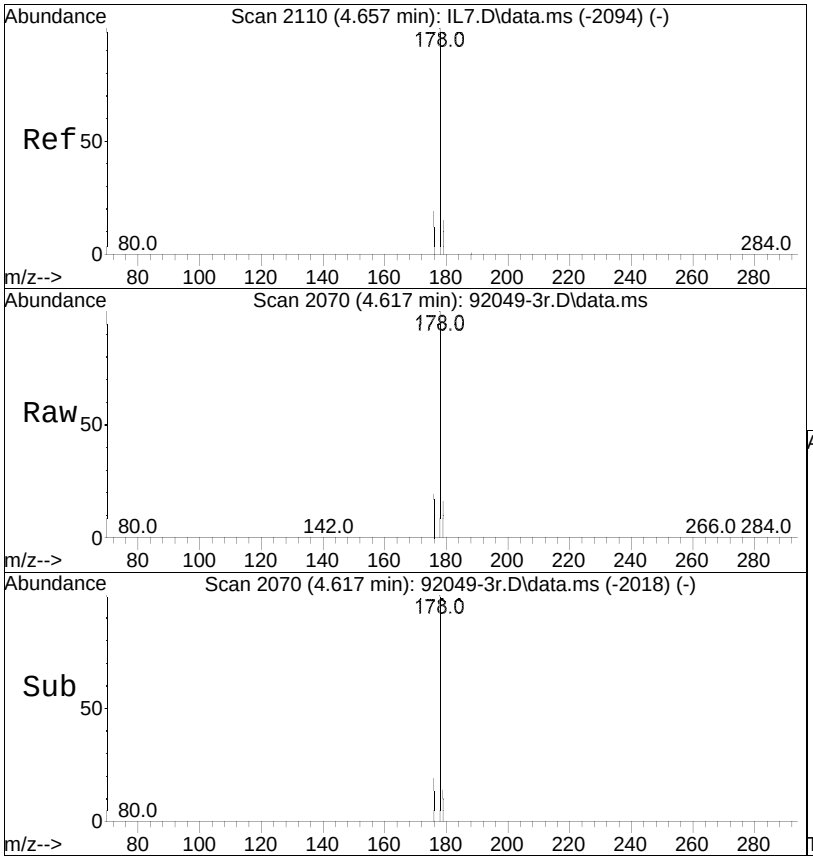


#25
Pentachlorophenol
Concen: 2156.49 ng/ml
RT: 4.503 min Scan# 2012
Delta R.T. 0.001 min
Lab File: 92049-3r.D
Acq: 05 Mar 2024 03:28 pm

Tgt Ion:266 Resp: 14789

Ion	Ratio	Lower	Upper
266	100		
264	63.0	50.7	76.1

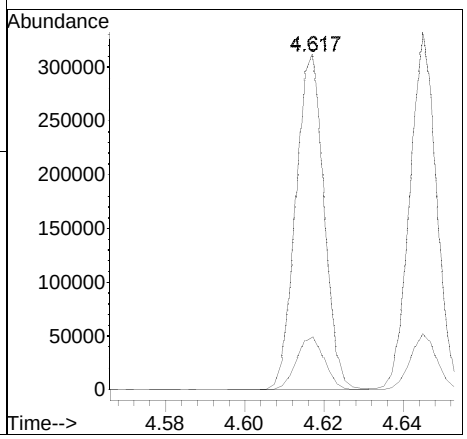


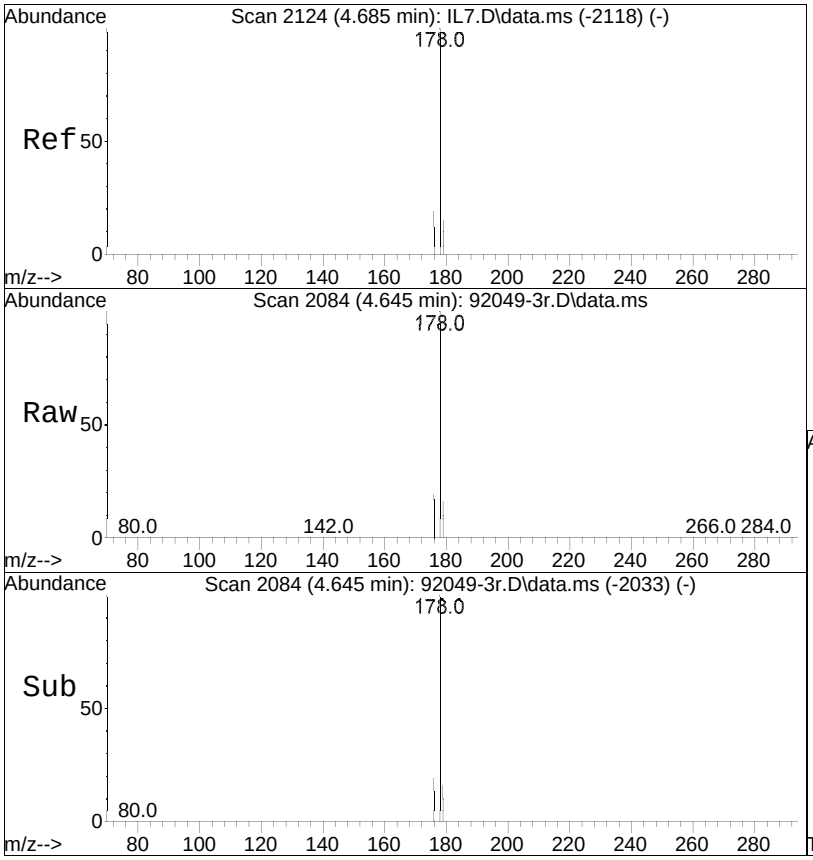


#26
Phenanthrene
Concen: 3665.55 ng/ml
RT: 4.617 min Scan# 2070
Delta R.T. 0.003 min
Lab File: 92049-3r.D
Acq: 05 Mar 2024 03:28 pm

Tgt Ion:178 Resp: 155155

Ion	Ratio	Lower	Upper
178	100		
179	15.6	12.3	18.5

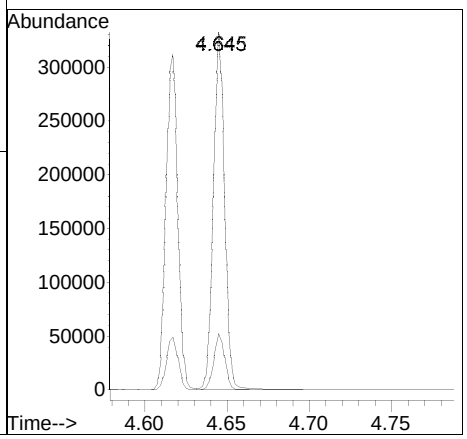


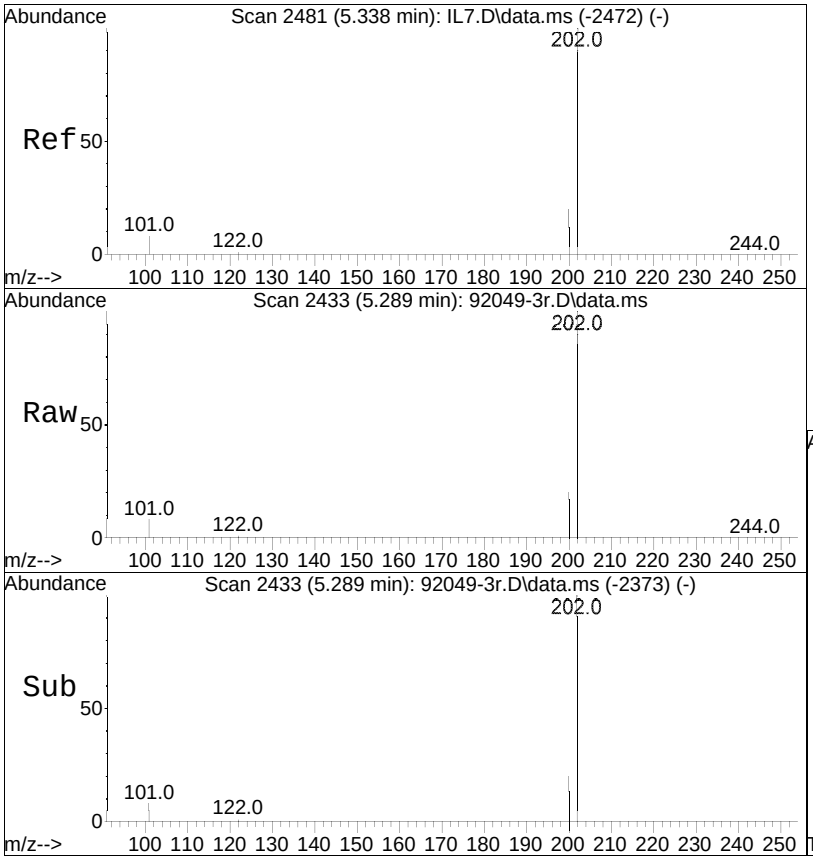


#27
Anthracene
Concen: 3758.95 ng/ml
RT: 4.645 min Scan# 2084
Delta R.T. 0.001 min
Lab File: 92049-3r.D
Acq: 05 Mar 2024 03:28 pm

Tgt Ion:178 Resp: 157782

Ion	Ratio	Lower	Upper
178	100		
179	15.4	12.2	18.4

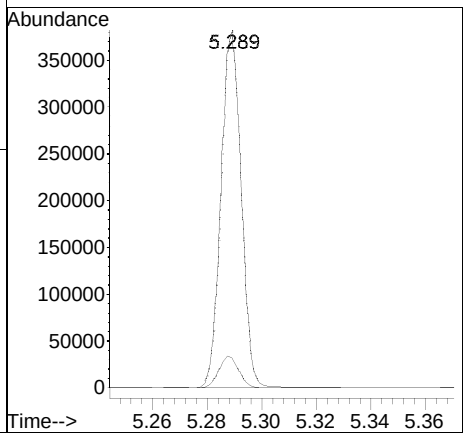


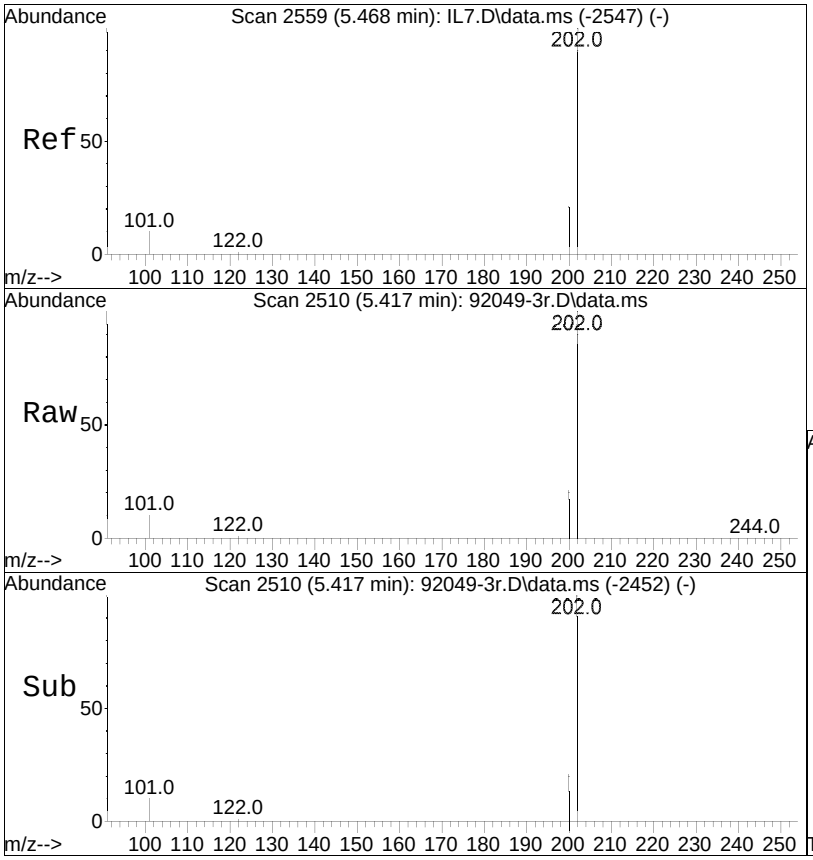


#28
Fluoranthene
Concen: 3444.67 ng/ml
RT: 5.289 min Scan# 2433
Delta R.T. -0.001 min
Lab File: 92049-3r.D
Acq: 05 Mar 2024 03:28 pm

Tgt Ion:202 Resp: 192166

Ion	Ratio	Lower	Upper
202	100		
101	8.8	8.3	12.5

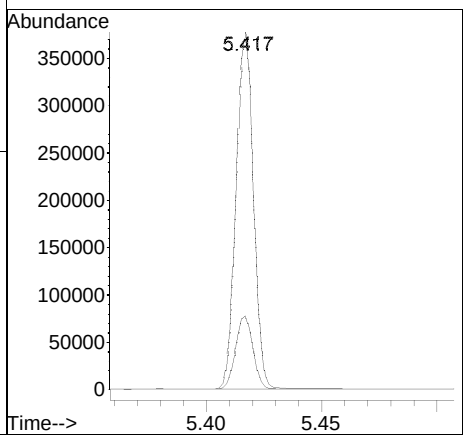


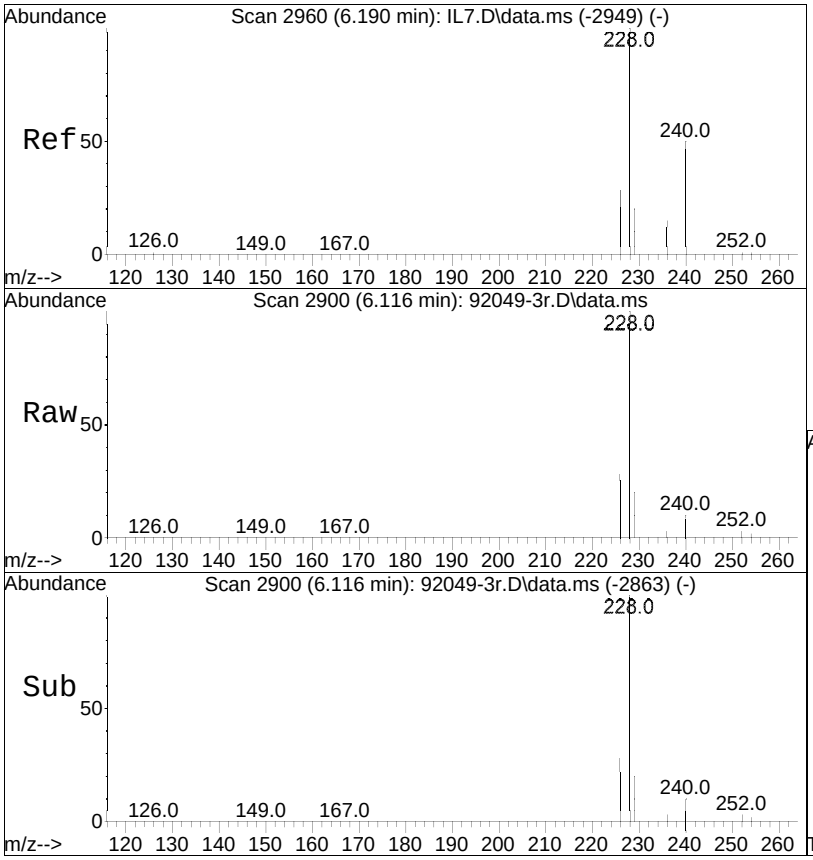


#29
Pyrene
Concen: 3398.84 ng/ml
RT: 5.417 min Scan# 2510
Delta R.T. -0.004 min
Lab File: 92049-3r.D
Acq: 05 Mar 2024 03:28 pm

Tgt Ion:202 Resp: 194796

Ion	Ratio	Lower	Upper
202	100		
200	20.9	17.3	25.9

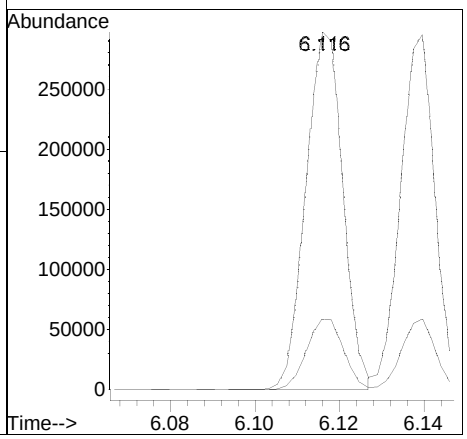


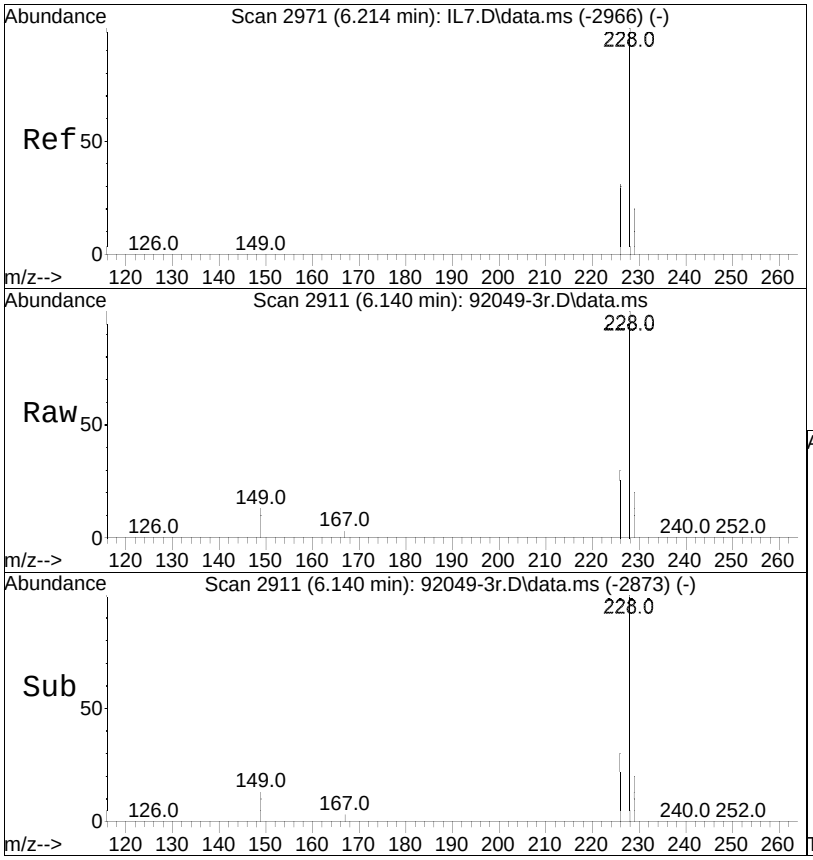


#32
Benzo[a]anthracene
Concen: 4447.28 ng/ml
RT: 6.116 min Scan# 2900
Delta R.T. -0.020 min
Lab File: 92049-3r.D
Acq: 05 Mar 2024 03:28 pm

Tgt Ion:228 Resp: 180964

Ion	Ratio	Lower	Upper
228	100		
229	19.6	15.6	23.4

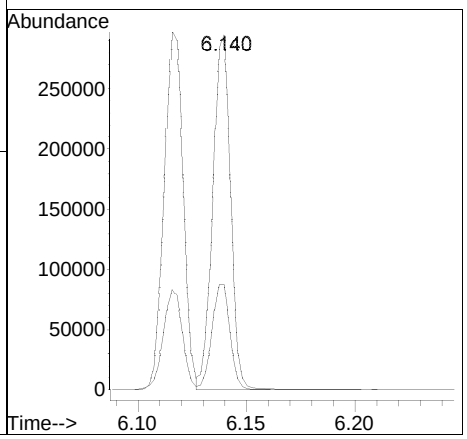


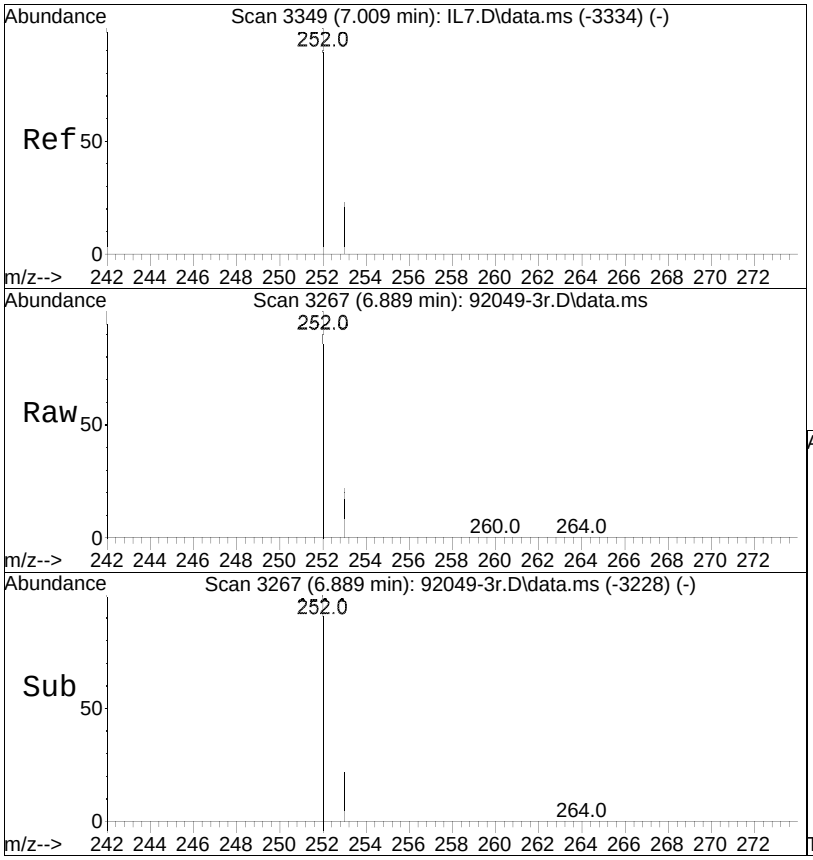


#34
Chrysene
Concen: 4145.54 ng/ml
RT: 6.140 min Scan# 2911
Delta R.T. -0.018 min
Lab File: 92049-3r.D
Acq: 05 Mar 2024 03:28 pm

Tgt Ion:228 Resp: 167370

Ion	Ratio	Lower	Upper
228	100		
226	30.3	24.5	36.7

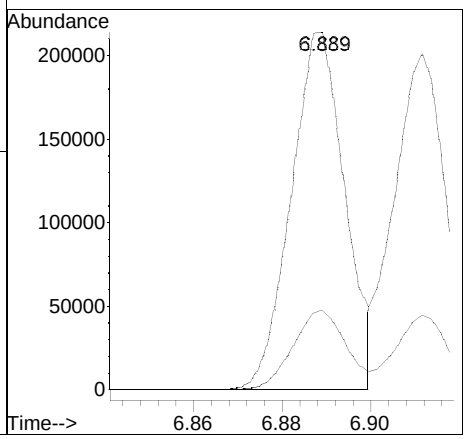


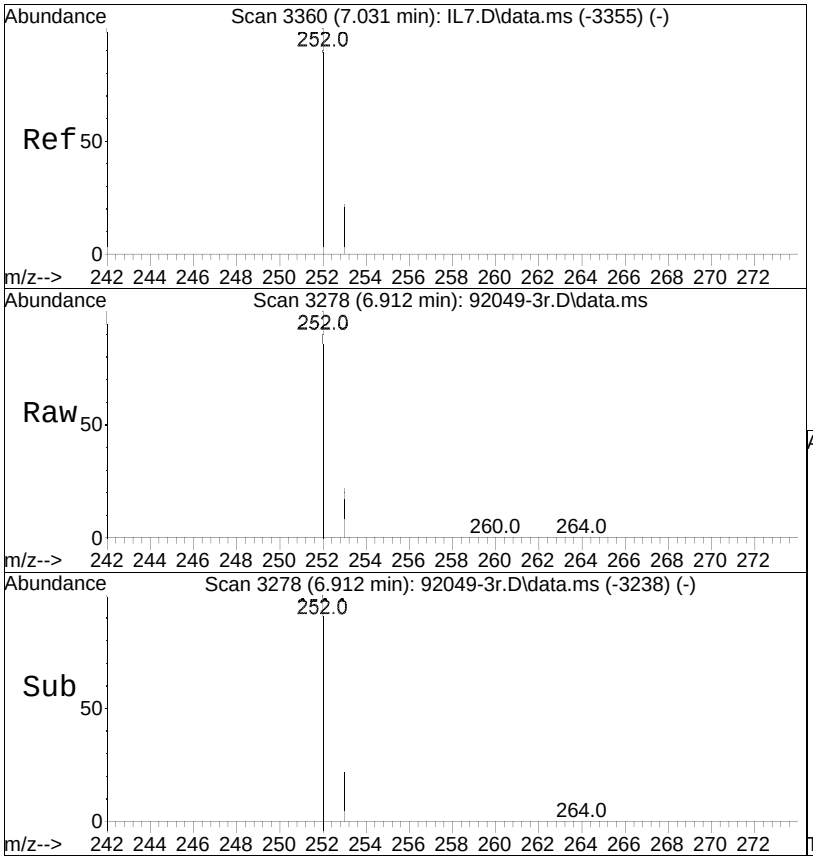


#37
Benzo[b]fluoranthene
Concen: 3866.90 ng/ml
RT: 6.889 min Scan# 3267
Delta R.T. -0.021 min
Lab File: 92049-3r.D
Acq: 05 Mar 2024 03:28 pm

Tgt Ion:252 Resp: 179716

Ion	Ratio	Lower	Upper
252	100		
253	22.0	17.3	25.9

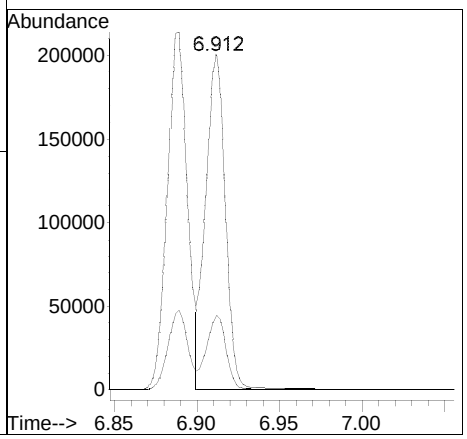


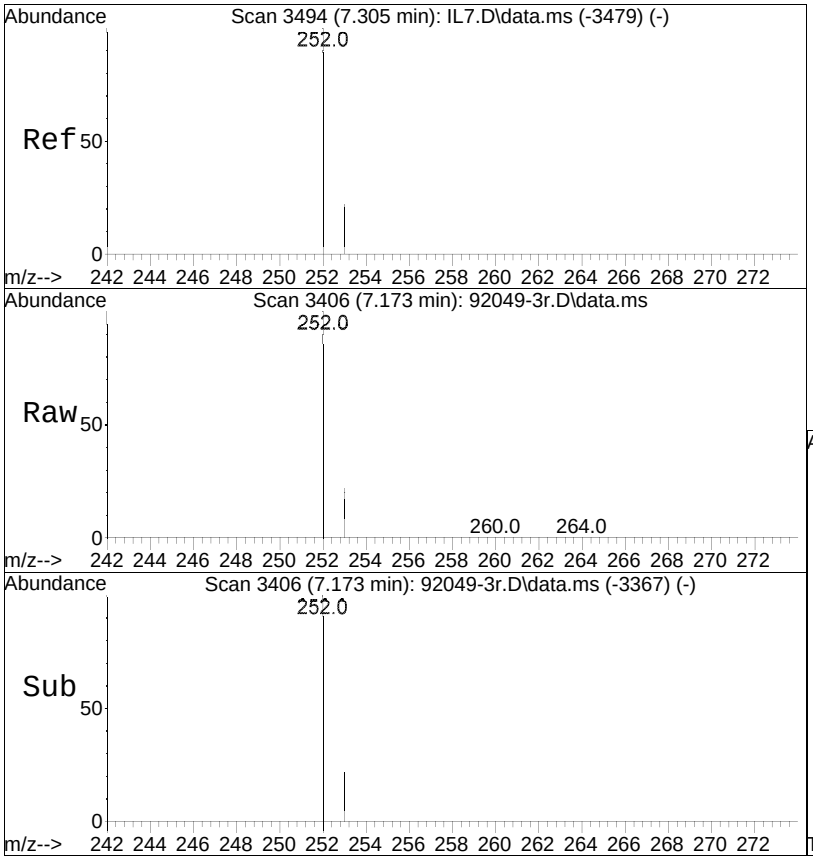


#38
Benzo[k]fluoranthene
Concen: 3740.02 ng/ml
RT: 6.912 min Scan# 3278
Delta R.T. -0.019 min
Lab File: 92049-3r.D
Acq: 05 Mar 2024 03:28 pm

Tgt Ion:252 Resp: 165052

Ion	Ratio	Lower	Upper
252	100		
253	22.2	17.4	26.2

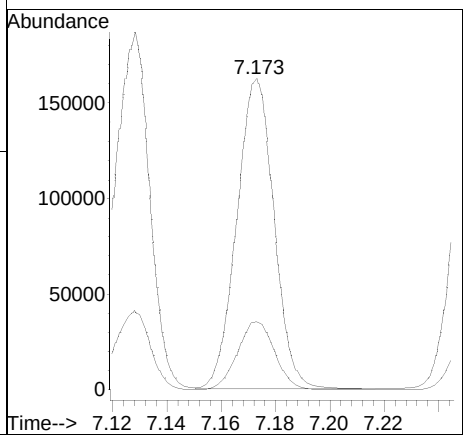


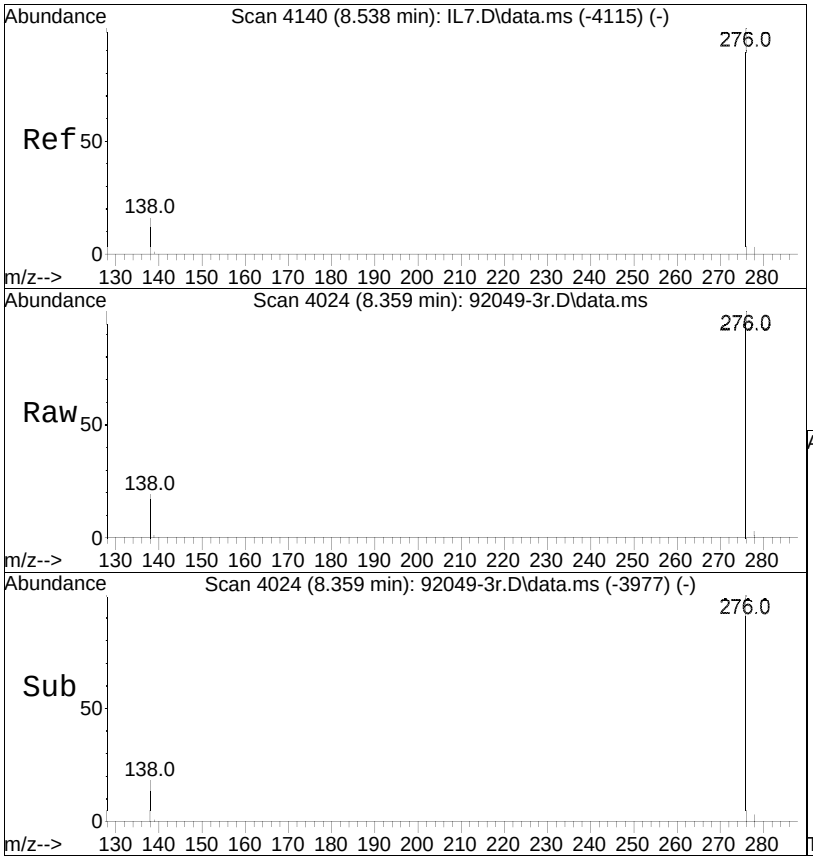


#39
Benzo[a]pyrene
Concen: 3745.55 ng/ml
RT: 7.173 min Scan# 3406
Delta R.T. -0.021 min
Lab File: 92049-3r.D
Acq: 05 Mar 2024 03:28 pm

Tgt Ion:252 Resp: 153225

Ion	Ratio	Lower	Upper
252	100		
253	21.9	17.4	26.0

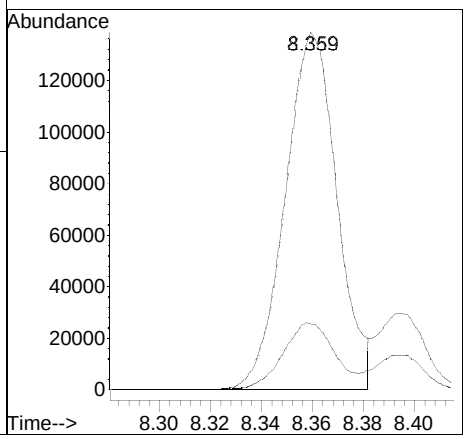


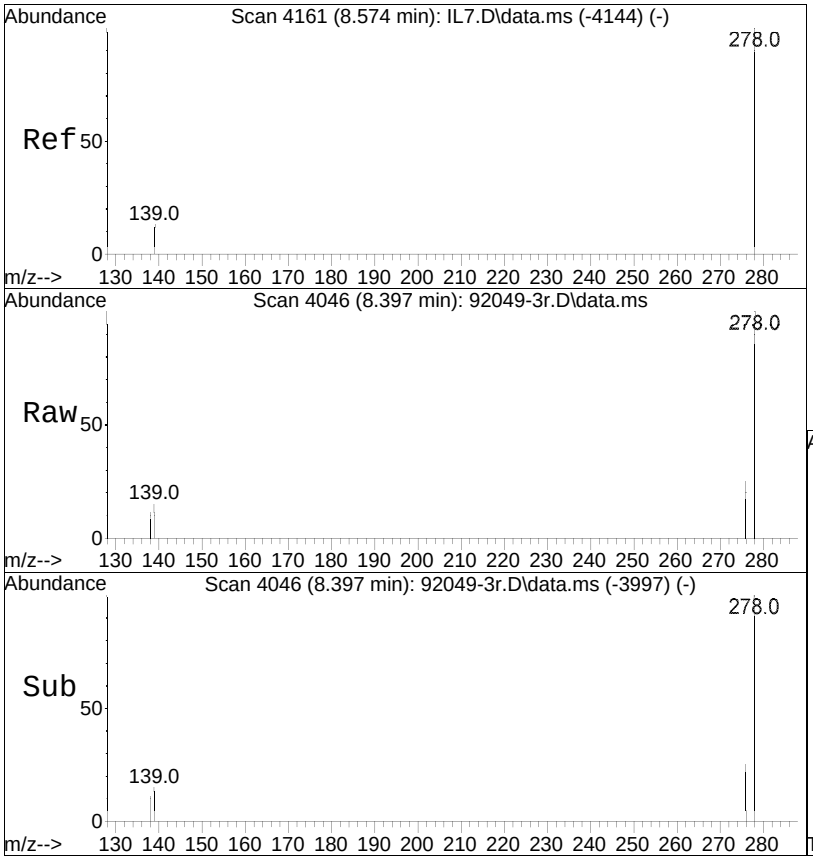


#40
Indeno[1,2,3-cd]pyrene
Concen: 4355.52 ng/ml
RT: 8.359 min Scan# 4024
Delta R.T. -0.020 min
Lab File: 92049-3r.D
Acq: 05 Mar 2024 03:28 pm

Tgt Ion:276 Resp: 193649

Ion	Ratio	Lower	Upper
276	100		
138	18.8	14.8	22.2

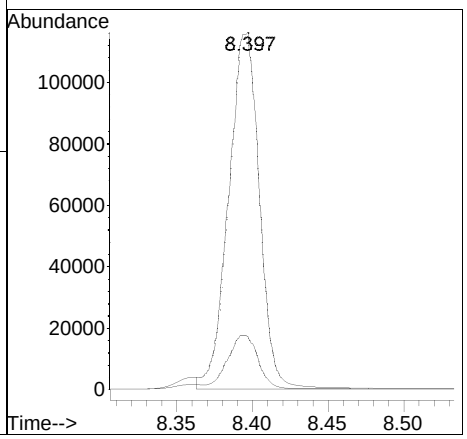


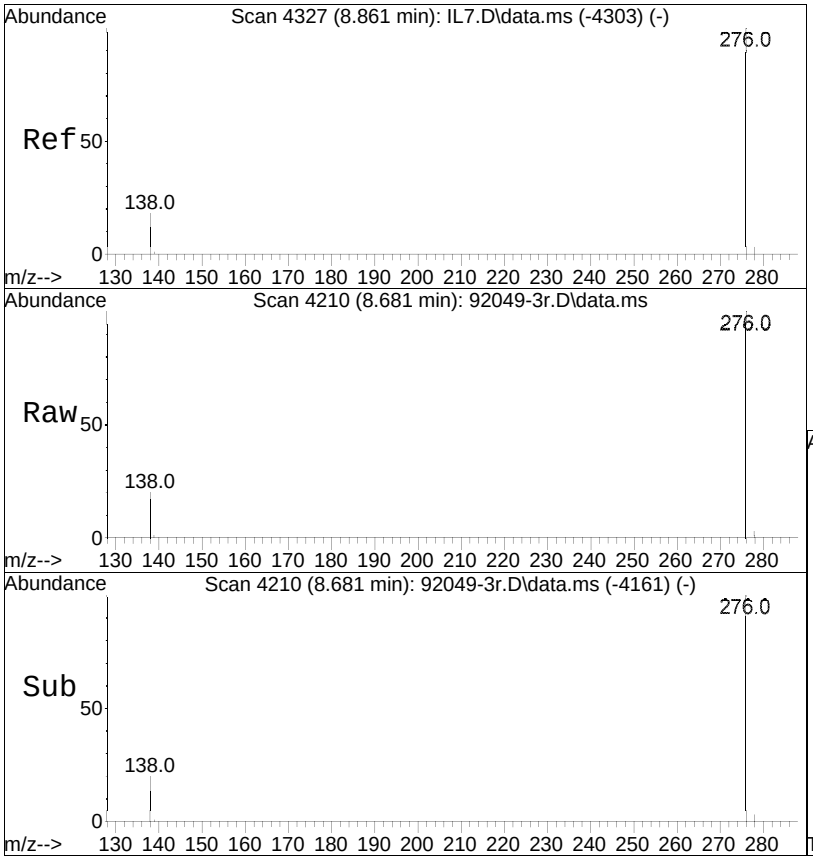


#41
Dibenzo[a,h]anthracene
Concen: 3946.92 ng/ml M3
RT: 8.397 min Scan# 4046
Delta R.T. -0.016 min
Lab File: 92049-3r.D
Acq: 05 Mar 2024 03:28 pm

Tgt Ion:278 Resp: 163268

Ion	Ratio	Lower	Upper
278	100		
139	15.0	12.2	18.4

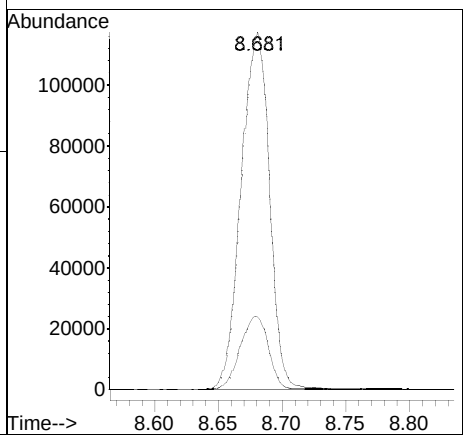




#42
Benzo[g,h,i]perylene
Concen: 3968.53 ng/ml
RT: 8.681 min Scan# 4210
Delta R.T. -0.016 min
Lab File: 92049-3r.D
Acq: 05 Mar 2024 03:28 pm

Tgt Ion:276 Resp: 179477

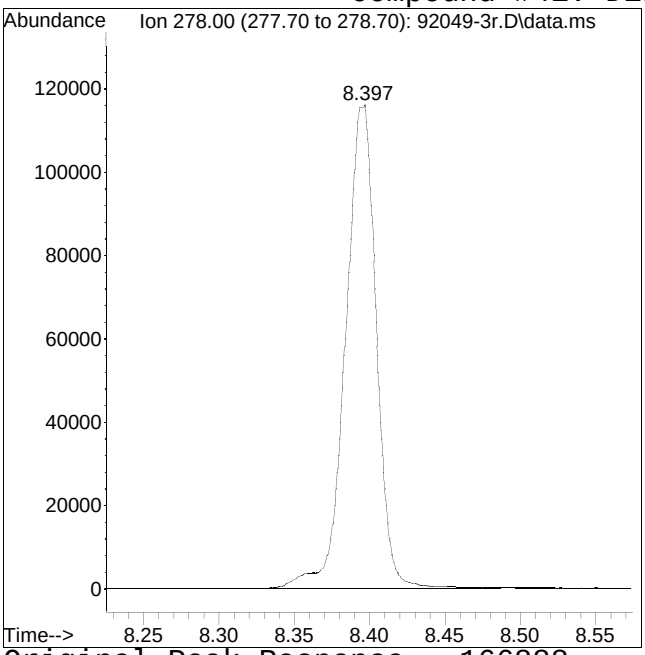
Ion	Ratio	Lower	Upper
276	100		
138	20.6	16.8	25.2

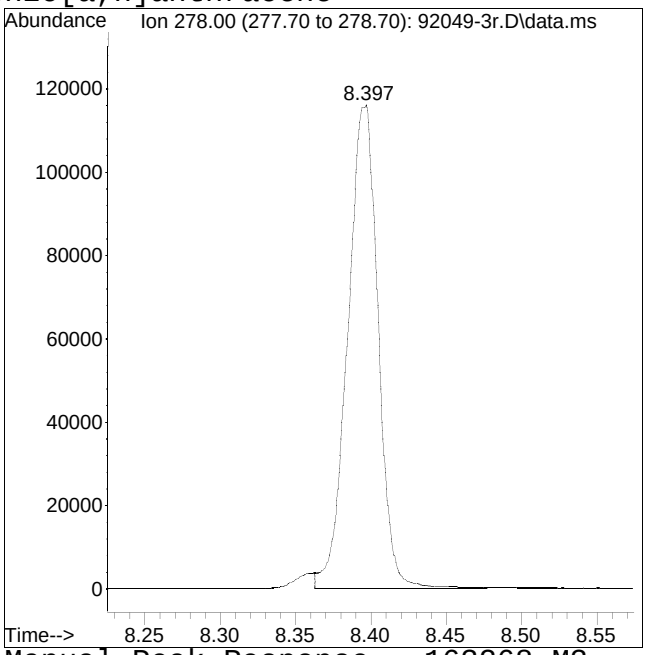


Manual Integration Report

Data Path : I:\8270SIM\sv119\240305LVIQMethod : SIM-LVI_231207n_sv119.M
Data File : 92049-3r.D Operator : sv119:jjw
Date Inj'd : 3/5/2024 3:28 pm Instrument : SV119
Sample : WG1892049-3,32,,RR,jjw Quant Date : 3/5/2024 3:44 pm

Compound #41: Dibenzo[a,h]anthracene





Original Peak Response = 166888 Manual Peak Response = 163268 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\240306LVI\
Data File : 892407-3.D
Acq On : 06 Mar 2024 08:16 am
Operator : sv119:jjw
Sample : WG1892407-3,32,,ah
Misc : WG1892736,WG1892407 ,ical20642
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 06 08:31:59 2024
Quant Method : I:\8270sim\sv119\240306LVI\SIM-LVI_231207n_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Mar 06 07:14:42 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv119\240306LVI\ccv0306.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.131	152	44583	4000.000	ng/ml	0.00
Standard Area 1 = 46268			Recovery = 96.36%			
8) Naphthalene-d8	2.793	136	164812	4000.000	ng/ml	0.00
Standard Area 1 = 165599			Recovery = 99.52%			
17) Acenaphthene-d10	3.761	164	95183	4000.000	ng/ml	0.00
Standard Area 1 = 97417			Recovery = 97.71%			
22) Phenanthrene-d10	4.590	188	220234	4000.000	ng/ml	0.00
Standard Area 1 = 225040			Recovery = 97.86%			
31) Chrysene-d12	6.155	240	166223	4000.000	ng/ml	-0.02
Standard Area 1 = 198834			Recovery = 83.60%			
36) Perylene-d12	7.272	264	158396	4000.000	ng/ml	-0.02
Standard Area 1 = 192010			Recovery = 82.49%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.540	112	35670	2925.163	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 58.50%			
3) Phenol-d6	1.951	99	38147	2609.752	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 52.20%			
7) Nitrobenzene-d5	2.411	82	19337	1744.009	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 69.76%			
13) 2-Fluorobiphenyl	3.387	172	54281	1474.671	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 58.99%			
21) 2,4,6-Tribromophenol	4.201	330	19419	3700.555	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 74.01%			
30) 4-Terphenyl-d14	5.516	244	64238	1189.825	ng/ml	-0.01
Spiked Amount 2500.000	Range 30 - 130		Recovery = 47.59%			
Target Compounds						Qvalue
6) Hexachloroethane	2.390	117	16551	3000.969	ng/ml	83
9) Naphthalene	2.804	128	118133	3001.819	ng/ml	100
10) Hexachlorobutadiene	2.878	225	26578	3135.988	ng/ml	100
11) 2-Methylnaphthalene	3.181	142	86640	2977.550	ng/ml	95
14) 2-Chloronaphthalene	3.450	162	93316	3010.670	ng/ml	98
16) Acenaphthylene	3.681	152	141755	3077.585	ng/ml	100
18) Acenaphthene	3.779	153	89270	3033.783	ng/ml	98
20) Fluorene	4.065	166	109440	3111.535	ng/ml	97
24) Hexachlorobenzene	4.379	284	42050	2953.445	ng/ml	97
25) Pentachlorophenol	4.492	266	28238	3110.296	ng/ml	99

Data Path : I:\8270SIM\sv119\240306LVI\
Data File : 892407-3.D
Acq On : 06 Mar 2024 08:16 am
Operator : sv119:jjw
Sample : WG1892407-3,32,,ah
Misc : WG1892736,WG1892407 ,ical20642
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 06 08:31:59 2024
Quant Method : I:\8270sim\sv119\240306LVI\SIM-LVI_231207n_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Mar 06 07:14:42 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv119\240306LVI\ccv0306.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Phenanthrene	4.604	178	167804	2999.539	ng/ml	100
27) Anthracene	4.632	178	171661	3094.279	ng/ml	100
28) Fluoranthene	5.285	202	215045	2916.618	ng/ml	96
29) Pyrene	5.416	202	218330	2882.328	ng/ml	99
32) Benzo[a]anthracene	6.147	228	201420	3640.958	ng/ml	99
34) Chrysene	6.168	228	183340	3341.969	ng/ml	99
37) Benzo[b]fluoranthene	6.929	252	185599	3354.002	ng/ml	99
38) Benzo[k]fluoranthene	6.949	252	166334	3165.527	ng/ml	99
39) Benzo[a]pyrene	7.215	252	152231	3125.366	ng/ml	100
40) Indeno[1,2,3-cd]pyrene	8.406	276	167515	3164.390	ng/ml	98
41) Dibenzo[a,h]anthracene	8.443	278	137775	2797.301	ng/ml	99
42) Benzo[g,h,i]perylene	8.726	276	150687	2798.391	ng/ml	100

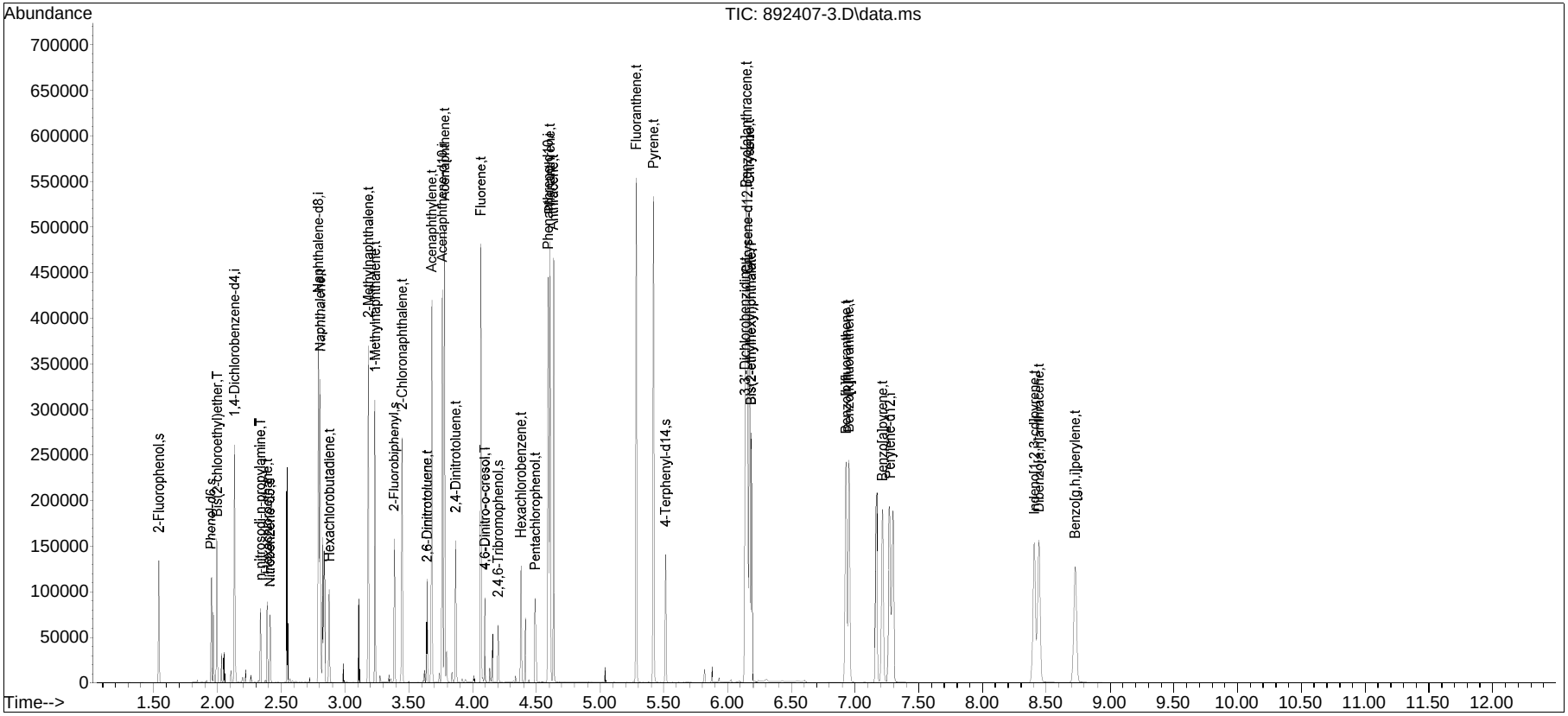
(#) = qualifier out of range (m) = manual integration (+) = signals summed

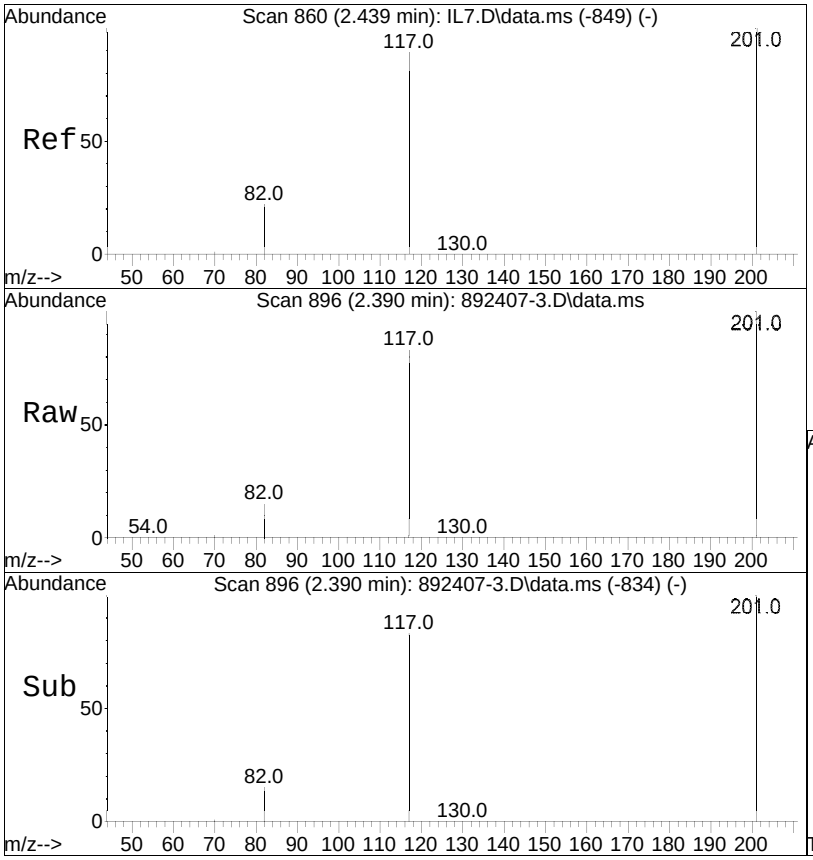
Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\240306LVI\
Data File : 892407-3.D
Acq On : 06 Mar 2024 08:16 am
Operator : sv119:jjw
Sample : WG1892407-3,32,,ah
Misc : WG1892736,WG1892407 ,ical20642
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 06 08:31:59 2024
Quant Method : I:\8270sim\sv119\240306LVI\SIM-LVI_231207n_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Mar 06 07:14:42 2024
Response via : Initial Calibration

Sub List : DEFAULT - All compounds listed\ccv0306.D•

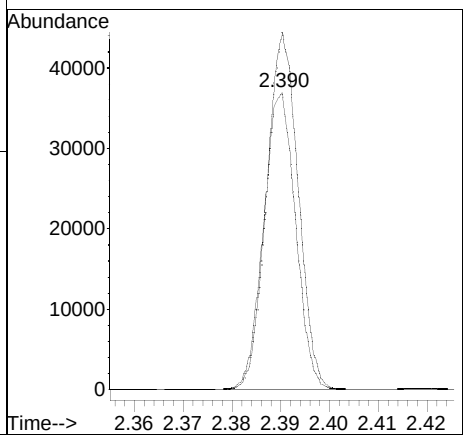


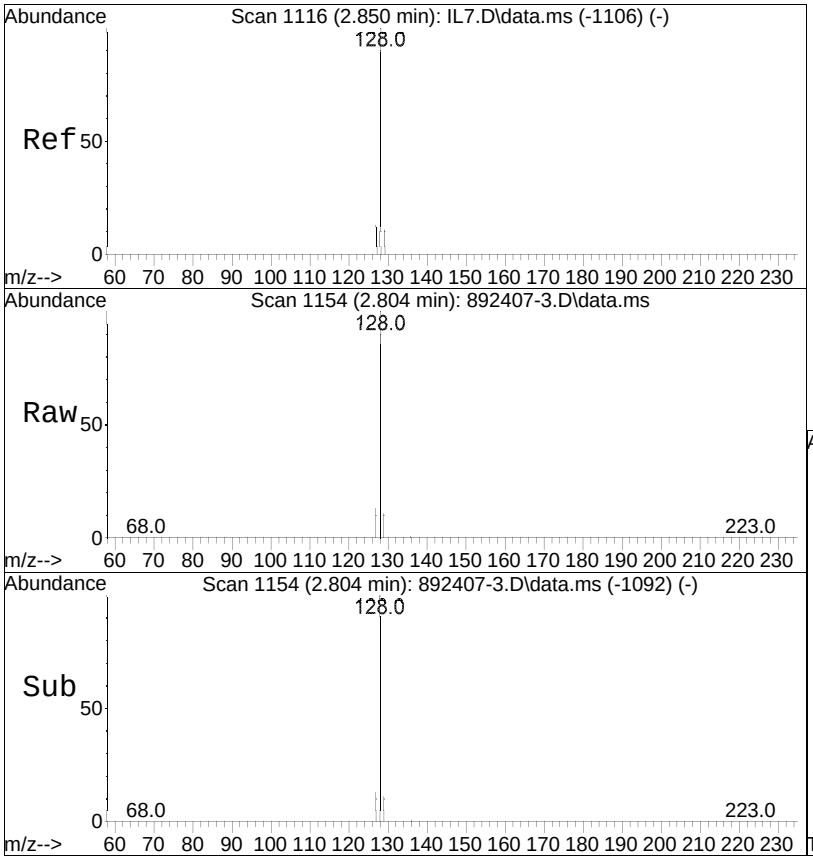


#6
Hexachloroethane
Concen: 3000.97 ng/ml
RT: 2.390 min Scan# 896
Delta R.T. -0.000 min
Lab File: 892407-3.D
Acq: 06 Mar 2024 08:16 am

Tgt Ion:117 Resp: 16551

Ion	Ratio	Lower	Upper
117	100		
201	119.0	81.5	122.3

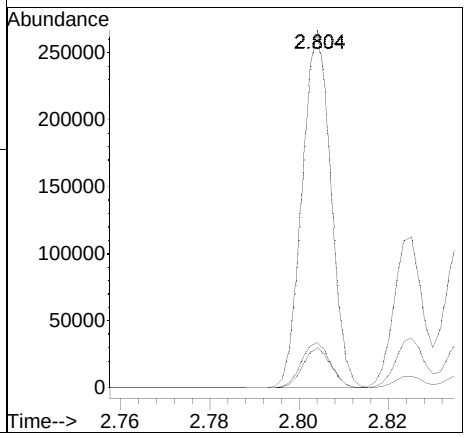


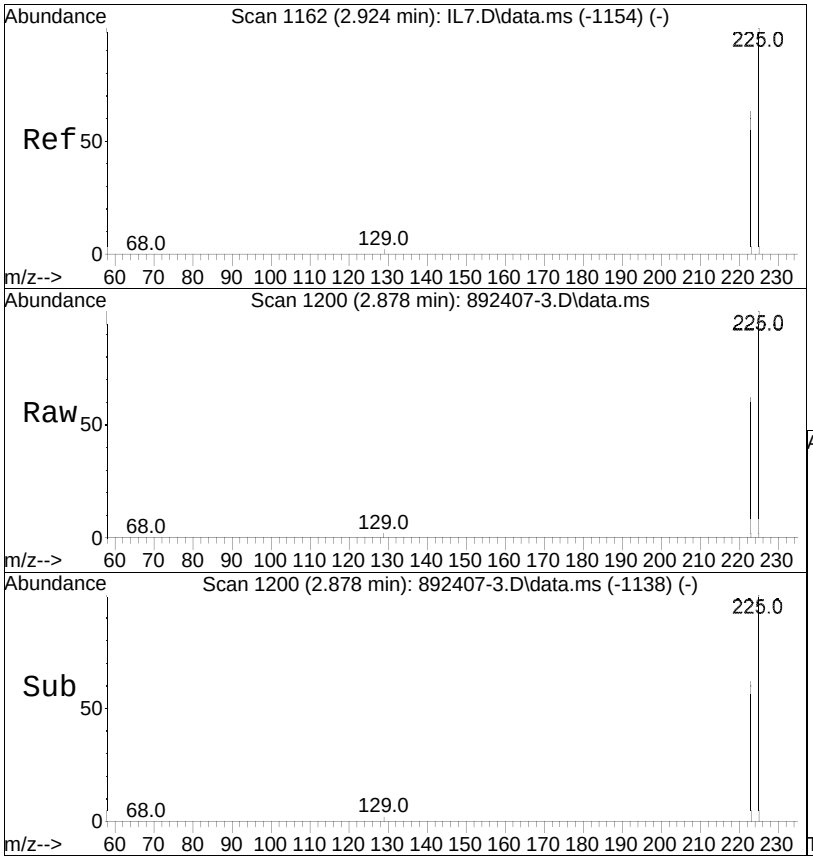


#9
Naphthalene
Concen: 3001.82 ng/ml
RT: 2.804 min Scan# 1154
Delta R.T. -0.000 min
Lab File: 892407-3.D
Acq: 06 Mar 2024 08:16 am

Tgt Ion:128 Resp: 118133

Ion	Ratio	Lower	Upper
128	100		
129	11.0	8.8	13.2
127	12.9	10.6	15.8

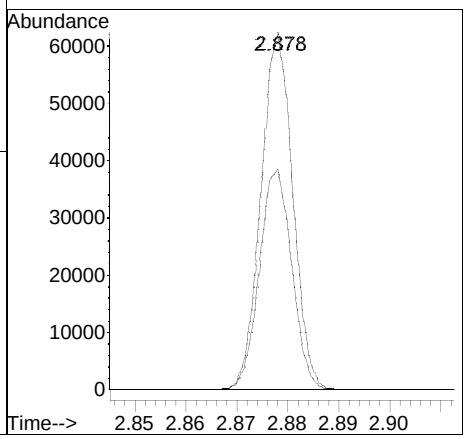


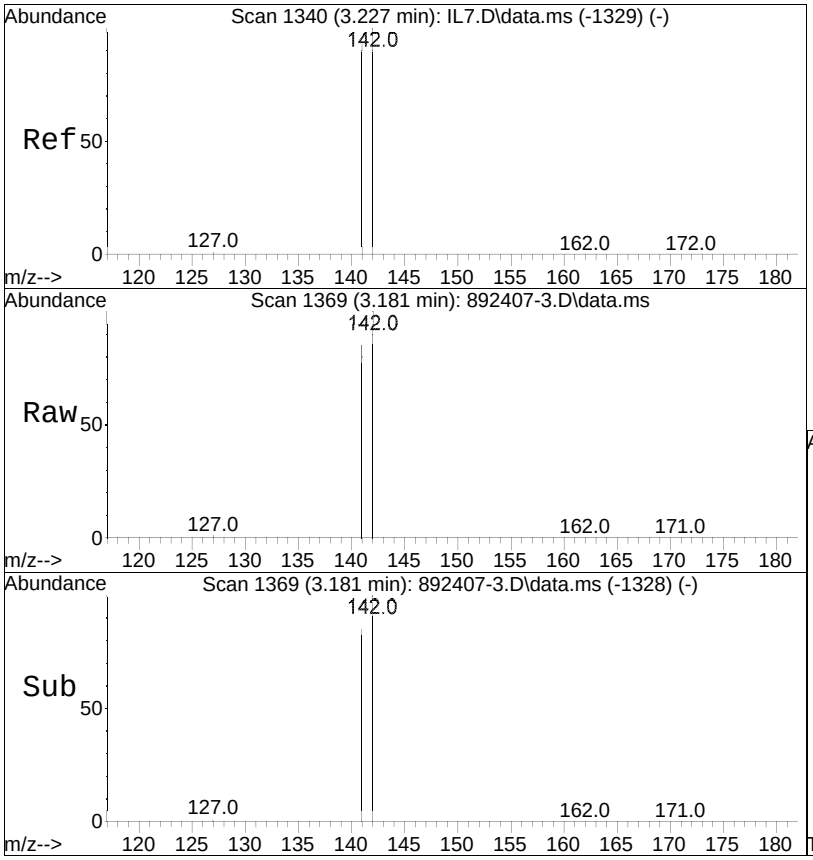


#10
Hexachlorobutadiene
Concen: 3135.99 ng/ml
RT: 2.878 min Scan# 1200
Delta R.T. -0.000 min
Lab File: 892407-3.D
Acq: 06 Mar 2024 08:16 am

Tgt Ion:225 Resp: 26578

Ion	Ratio	Lower	Upper
225	100		
223	63.0	50.1	75.1

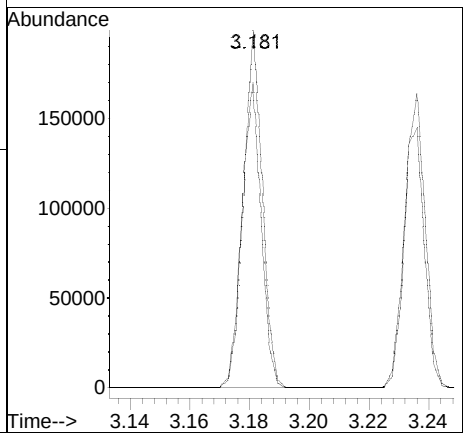


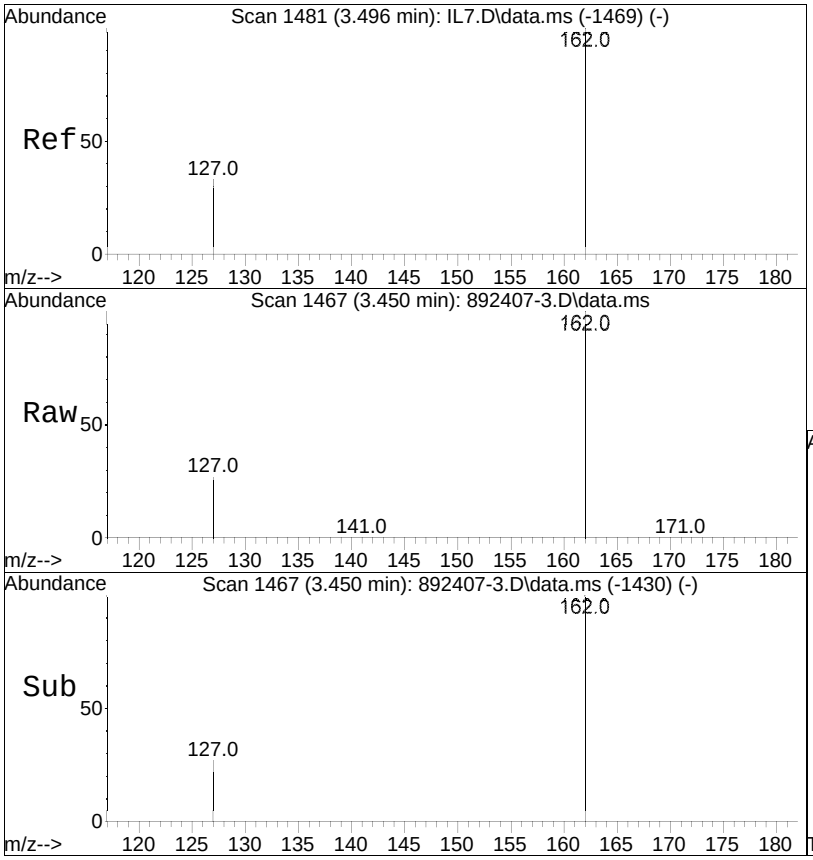


#11
2-Methylnaphthalene
Concen: 2977.55 ng/ml
RT: 3.181 min Scan# 1369
Delta R.T. -0.002 min
Lab File: 892407-3.D
Acq: 06 Mar 2024 08:16 am

Tgt Ion:142 Resp: 86640

Ion	Ratio	Lower	Upper
142	100		
141	87.8	74.1	111.1

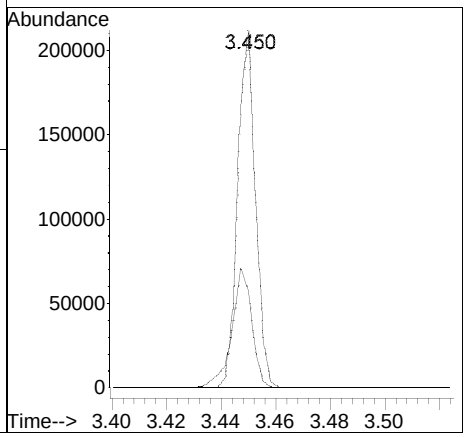


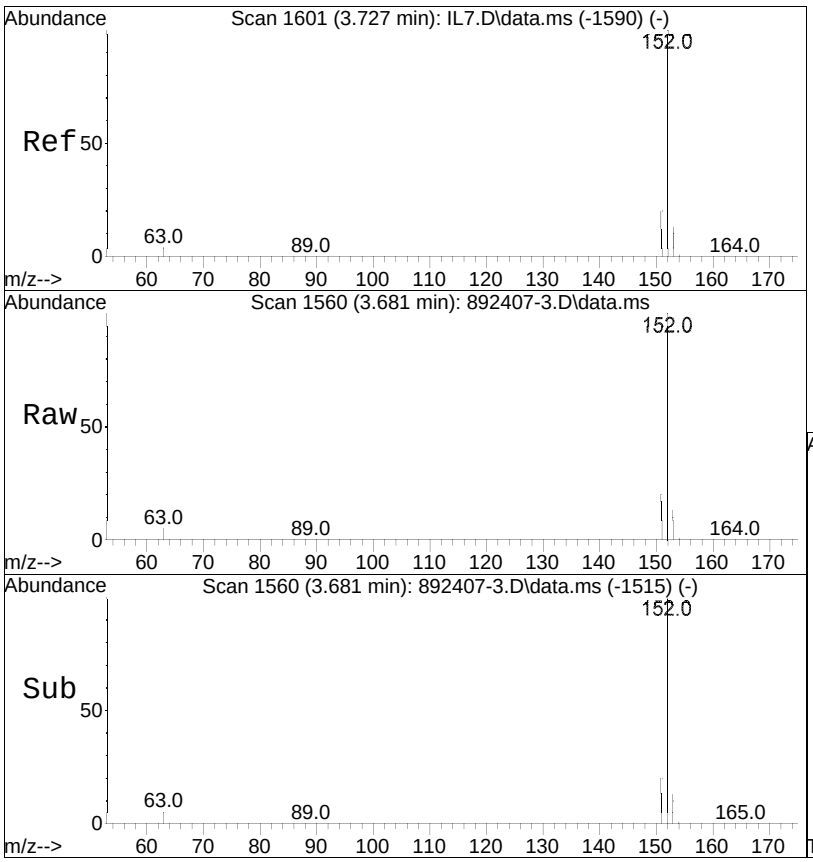


#14
2-Chloronaphthalene
Concen: 3010.67 ng/ml
RT: 3.450 min Scan# 1467
Delta R.T. 0.001 min
Lab File: 892407-3.D
Acq: 06 Mar 2024 08:16 am

Tgt Ion:162 Resp: 93316

Ion	Ratio	Lower	Upper
162	100		
127	38.0	29.7	44.5

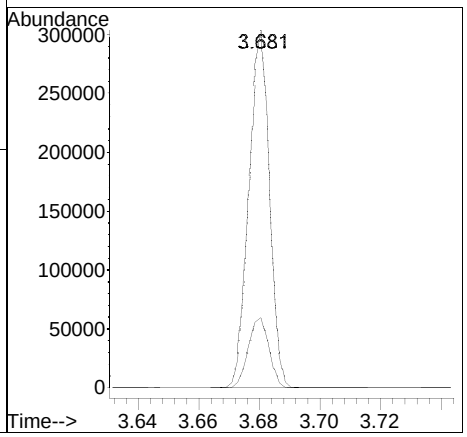


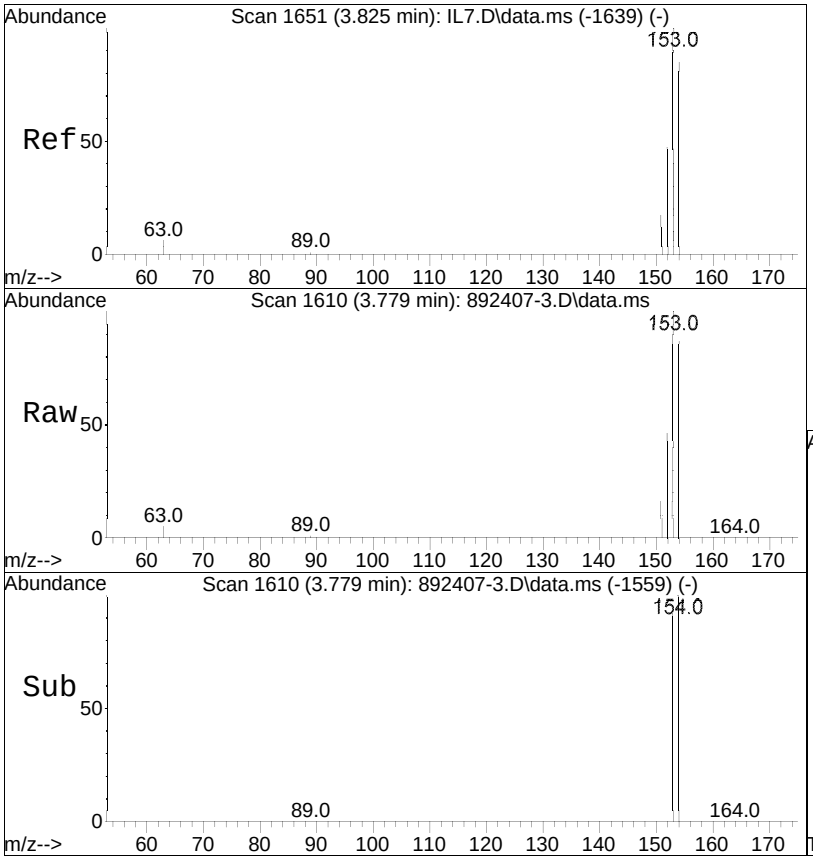


#16
Acenaphthylene
Concen: 3077.59 ng/ml
RT: 3.681 min Scan# 1560
Delta R.T. 0.000 min
Lab File: 892407-3.D
Acq: 06 Mar 2024 08:16 am

Tgt Ion:152 Resp: 141755

Ion	Ratio	Lower	Upper
152	100		
151	19.8	16.0	24.0

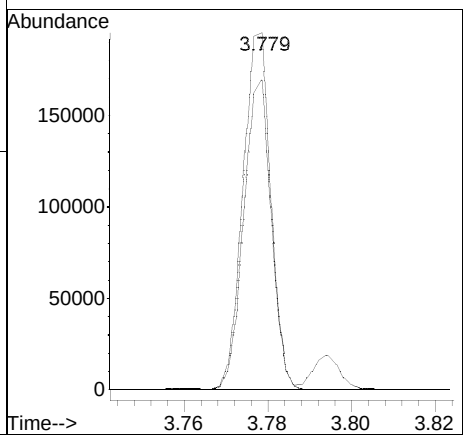


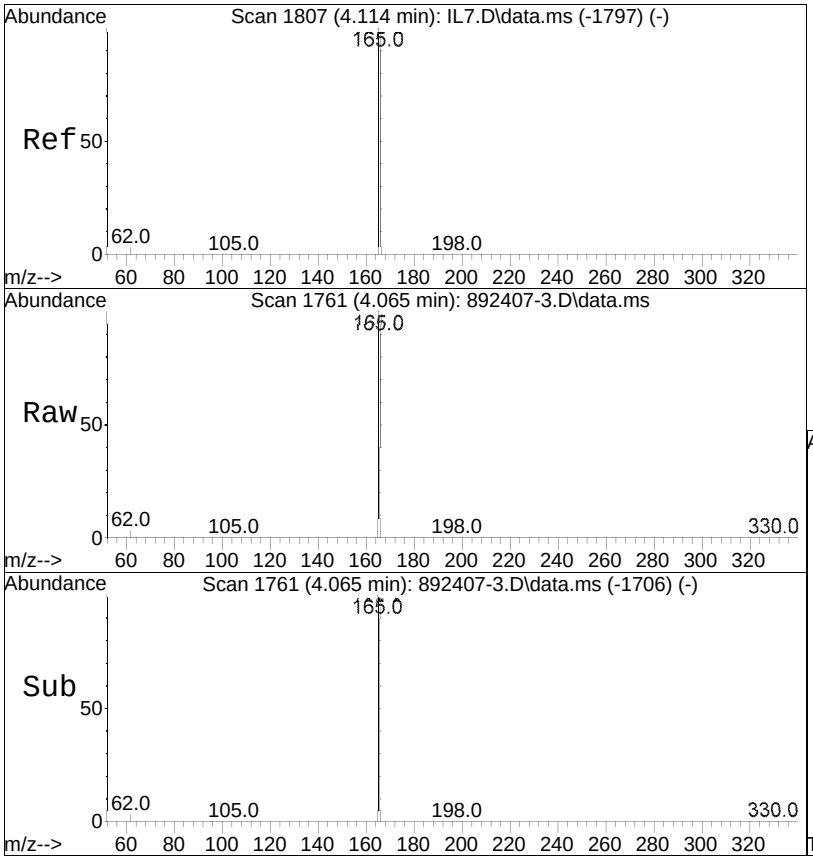


#18
Acenaphthene
Concen: 3033.78 ng/ml
RT: 3.779 min Scan# 1610
Delta R.T. 0.000 min
Lab File: 892407-3.D
Acq: 06 Mar 2024 08:16 am

Tgt Ion:153 Resp: 89270

Ion	Ratio	Lower	Upper
153	100		
154	85.4	66.9	100.3

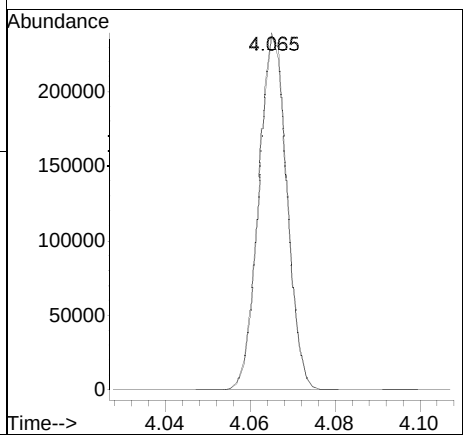


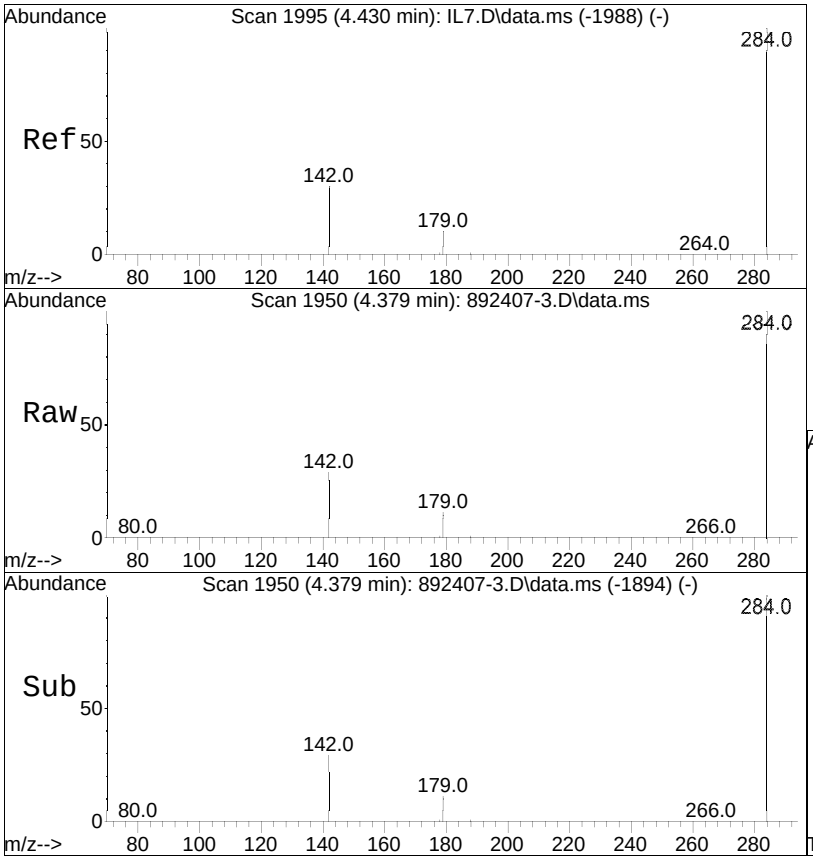


#20
Fluorene
Concen: 3111.54 ng/ml
RT: 4.065 min Scan# 1761
Delta R.T. -0.001 min
Lab File: 892407-3.D
Acq: 06 Mar 2024 08:16 am

Tgt Ion:166 Resp: 109440

Ion	Ratio	Lower	Upper
166	100		
165	100.3	82.9	124.3

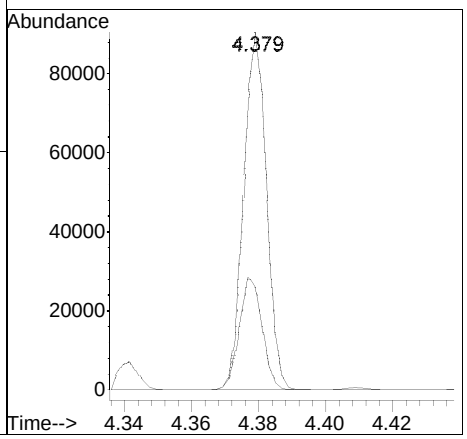


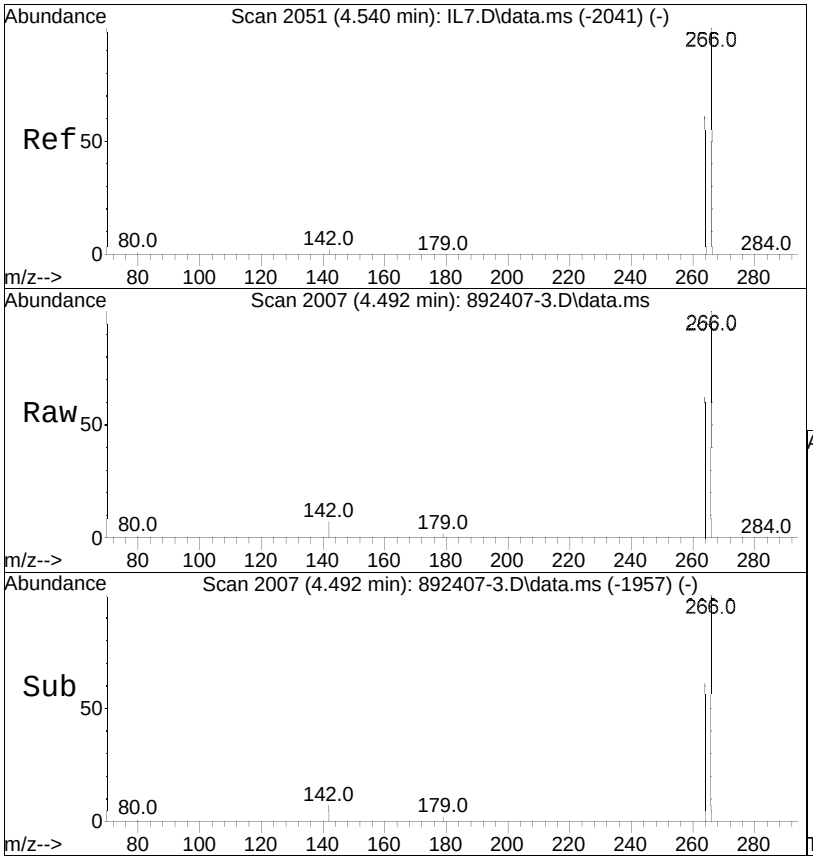


#24
Hexachlorobenzene
Concen: 2953.45 ng/ml
RT: 4.379 min Scan# 1950
Delta R.T. -0.002 min
Lab File: 892407-3.D
Acq: 06 Mar 2024 08:16 am

Tgt Ion:284 Resp: 42050

Ion	Ratio	Lower	Upper
284	100		
142	31.7	26.9	40.3

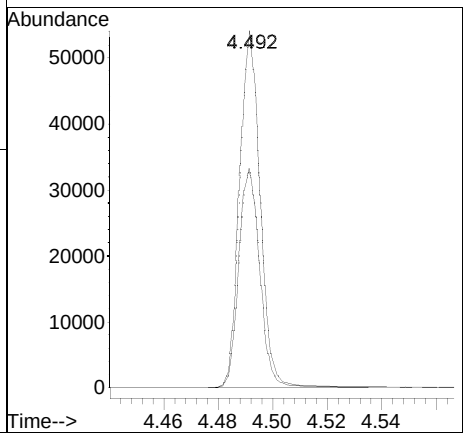


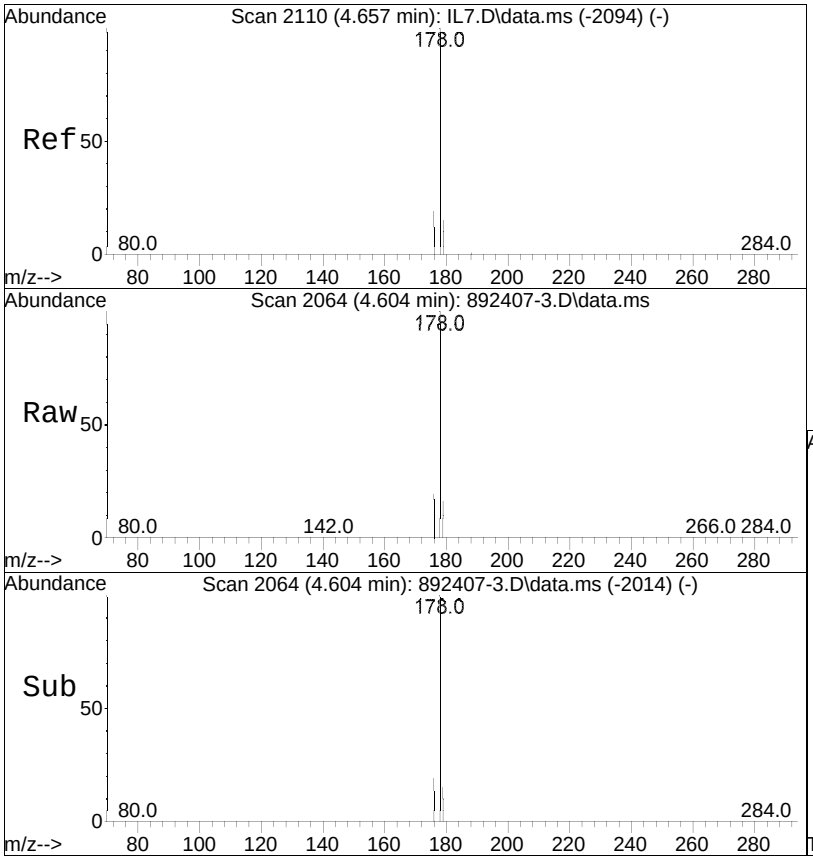


#25
Pentachlorophenol
Concen: 3110.30 ng/ml
RT: 4.492 min Scan# 2007
Delta R.T. -0.002 min
Lab File: 892407-3.D
Acq: 06 Mar 2024 08:16 am

Tgt Ion:266 Resp: 28238

Ion	Ratio	Lower	Upper
266	100		
264	62.6	50.7	76.1

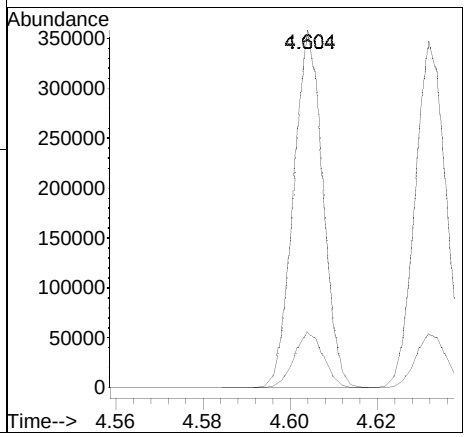


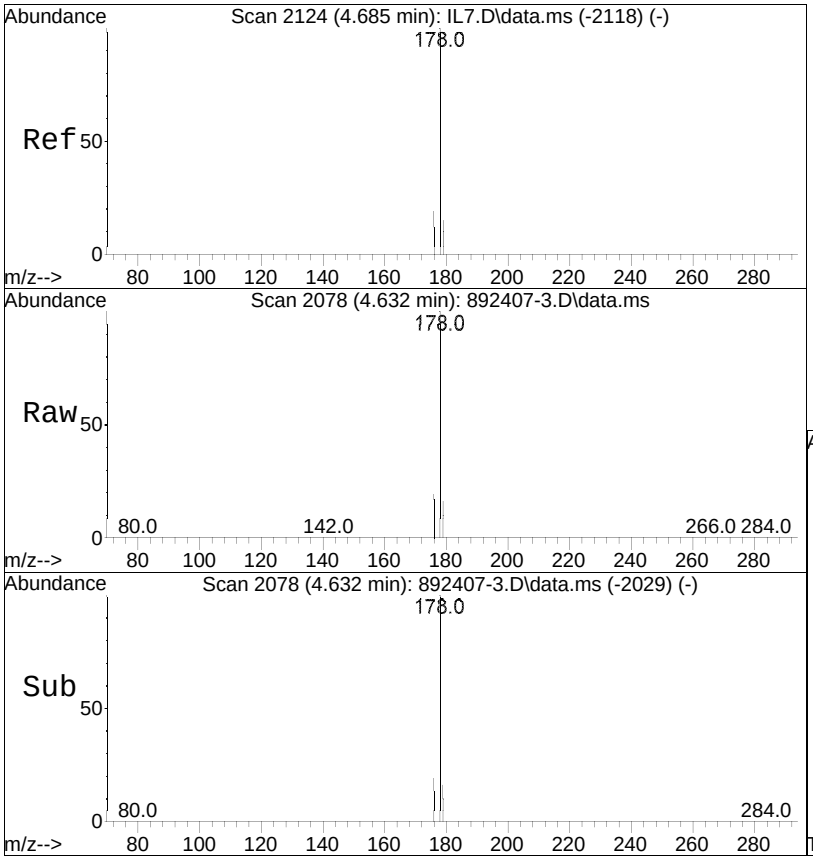


#26
Phenanthrene
Concen: 2999.54 ng/ml
RT: 4.604 min Scan# 2064
Delta R.T. -0.002 min
Lab File: 892407-3.D
Acq: 06 Mar 2024 08:16 am

Tgt Ion:178 Resp: 167804

Ion	Ratio	Lower	Upper
178	100		
179	15.6	12.3	18.5

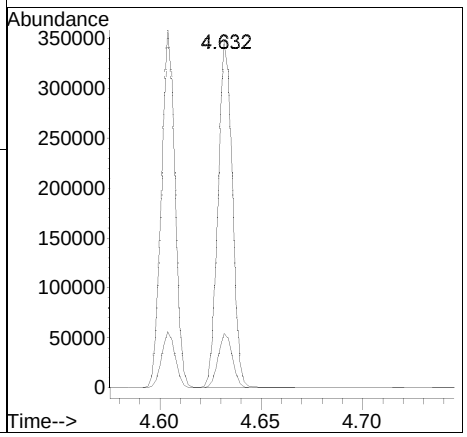


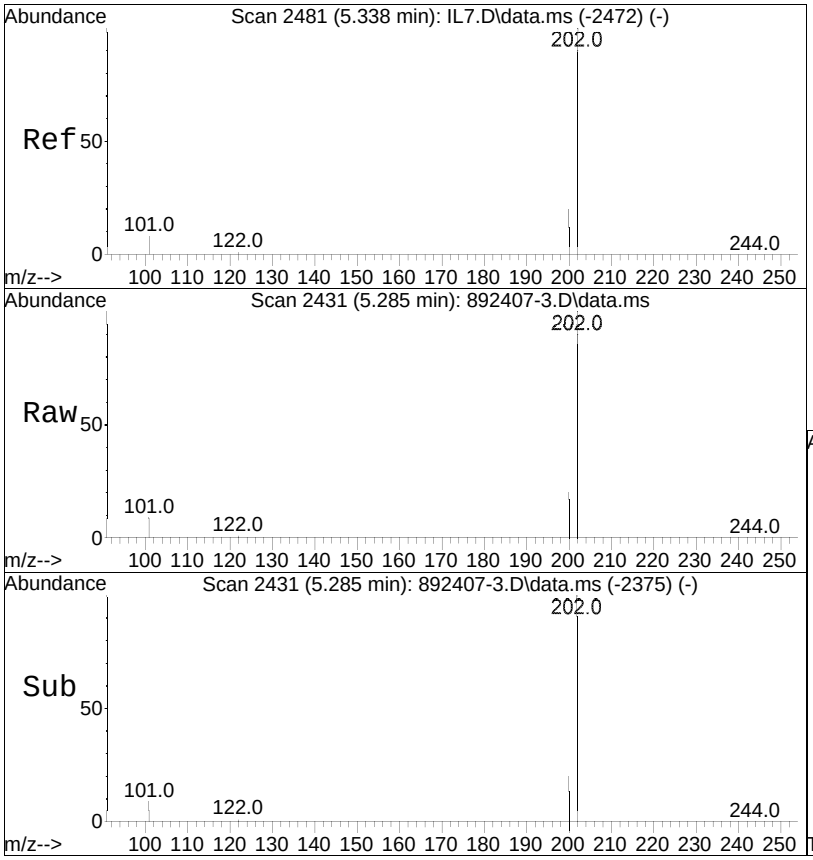


#27
Anthracene
Concen: 3094.28 ng/ml
RT: 4.632 min Scan# 2078
Delta R.T. -0.004 min
Lab File: 892407-3.D
Acq: 06 Mar 2024 08:16 am

Tgt Ion:178 Resp: 171661

Ion	Ratio	Lower	Upper
178	100		
179	15.5	12.2	18.4

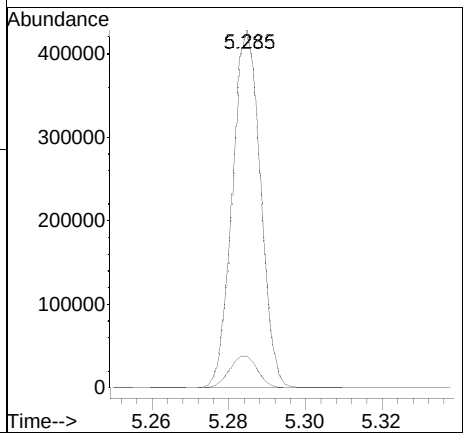


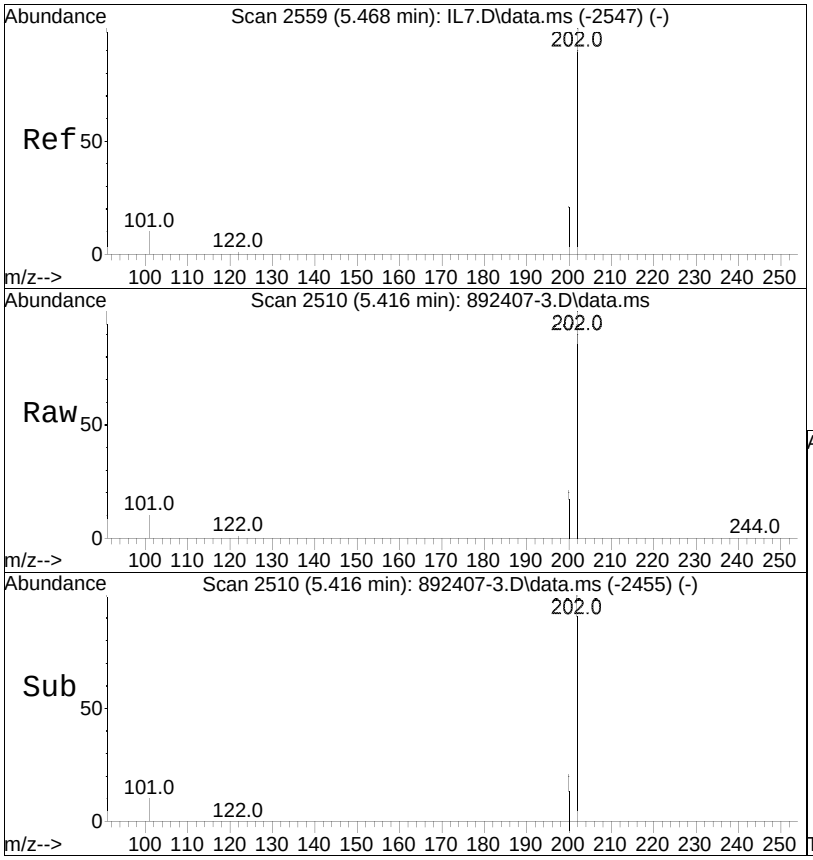


#28
Fluoranthene
Concen: 2916.62 ng/ml
RT: 5.285 min Scan# 2431
Delta R.T. -0.006 min
Lab File: 892407-3.D
Acq: 06 Mar 2024 08:16 am

Tgt Ion:202 Resp: 215045

Ion	Ratio	Lower	Upper
202	100		
101	9.0	8.3	12.5

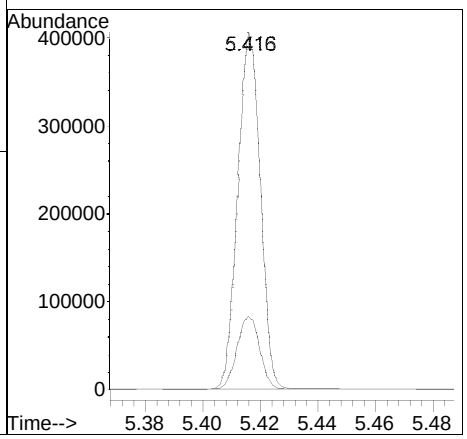


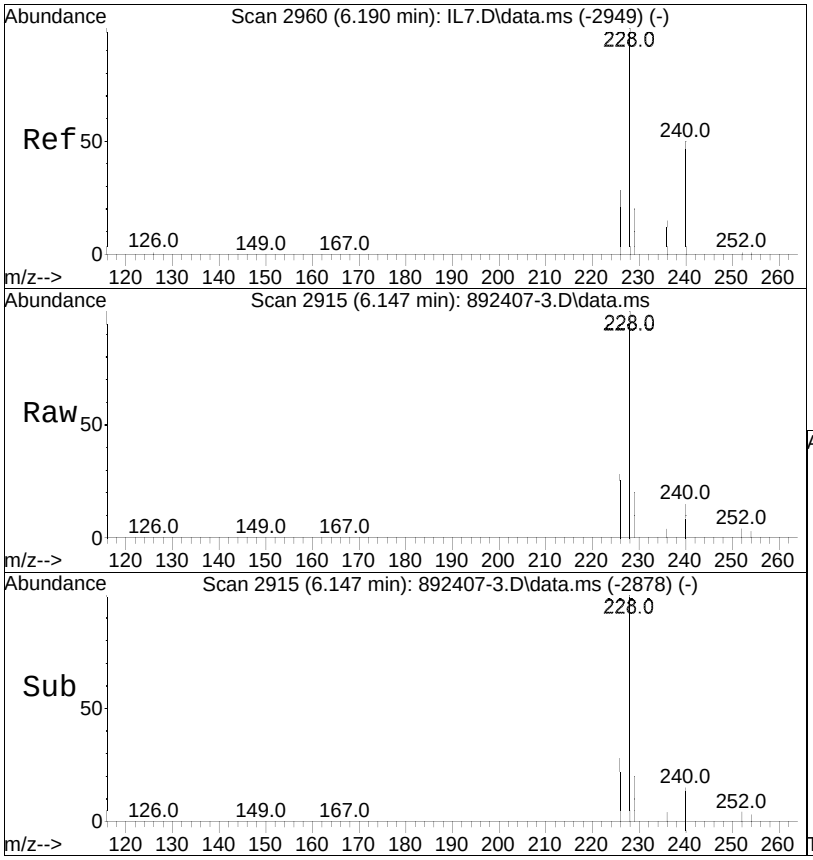


#29
Pyrene
Concen: 2882.33 ng/ml
RT: 5.416 min Scan# 2510
Delta R.T. -0.008 min
Lab File: 892407-3.D
Acq: 06 Mar 2024 08:16 am

Tgt Ion:202 Resp: 218330

Ion	Ratio	Lower	Upper
202	100		
200	20.9	17.3	25.9

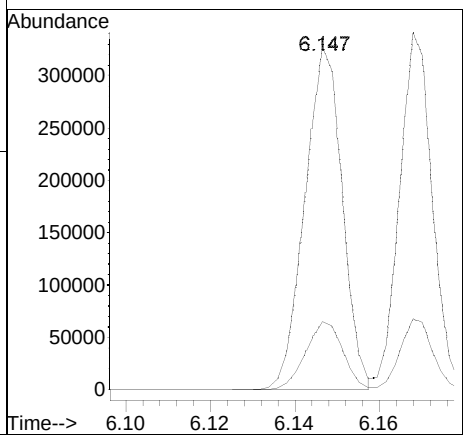


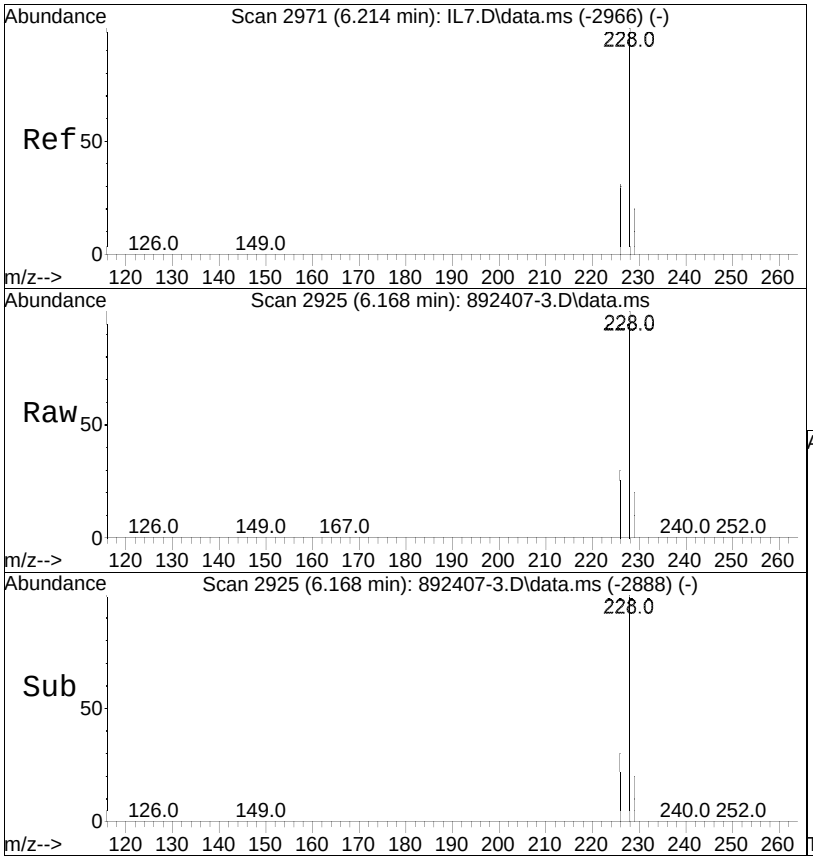


#32
Benzo[a]anthracene
Concen: 3640.96 ng/ml
RT: 6.147 min Scan# 2915
Delta R.T. -0.021 min
Lab File: 892407-3.D
Acq: 06 Mar 2024 08:16 am

Tgt Ion:228 Resp: 201420

Ion	Ratio	Lower	Upper
228	100		
229	19.8	15.6	23.4

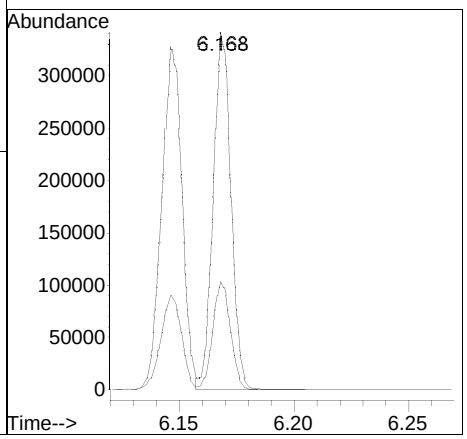


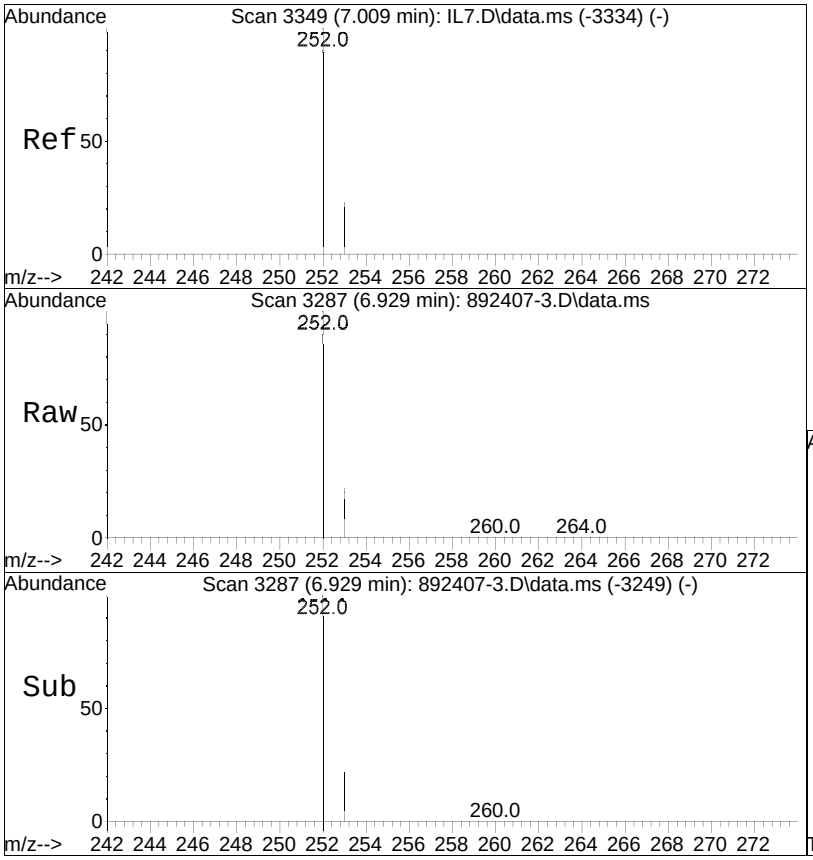


#34
Chrysene
Concen: 3341.97 ng/ml
RT: 6.168 min Scan# 2925
Delta R.T. -0.021 min
Lab File: 892407-3.D
Acq: 06 Mar 2024 08:16 am

Tgt Ion:228 Resp: 183340

Ion	Ratio	Lower	Upper
228	100		
226	30.3	24.5	36.7

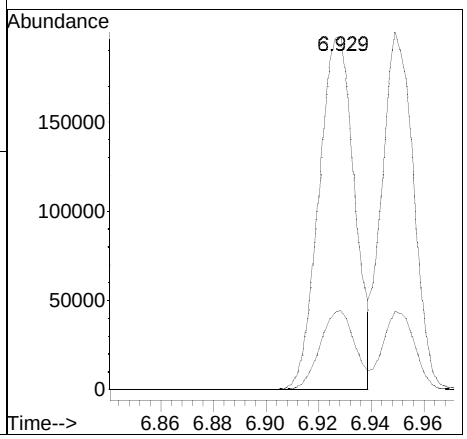


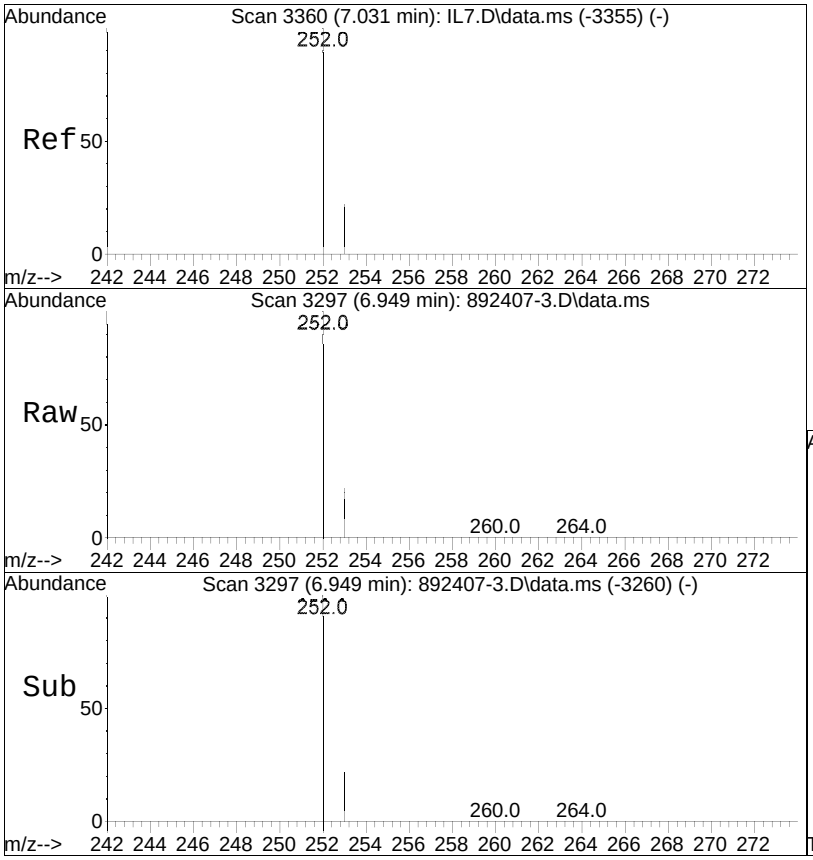


#37
Benzo[b]fluoranthene
Concen: 3354.00 ng/ml
RT: 6.929 min Scan# 3287
Delta R.T. -0.022 min
Lab File: 892407-3.D
Acq: 06 Mar 2024 08:16 am

Tgt Ion:252 Resp: 185599

Ion	Ratio	Lower	Upper
252	100		
253	21.9	17.3	25.9

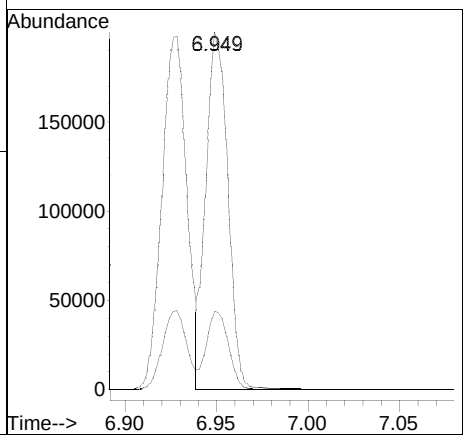


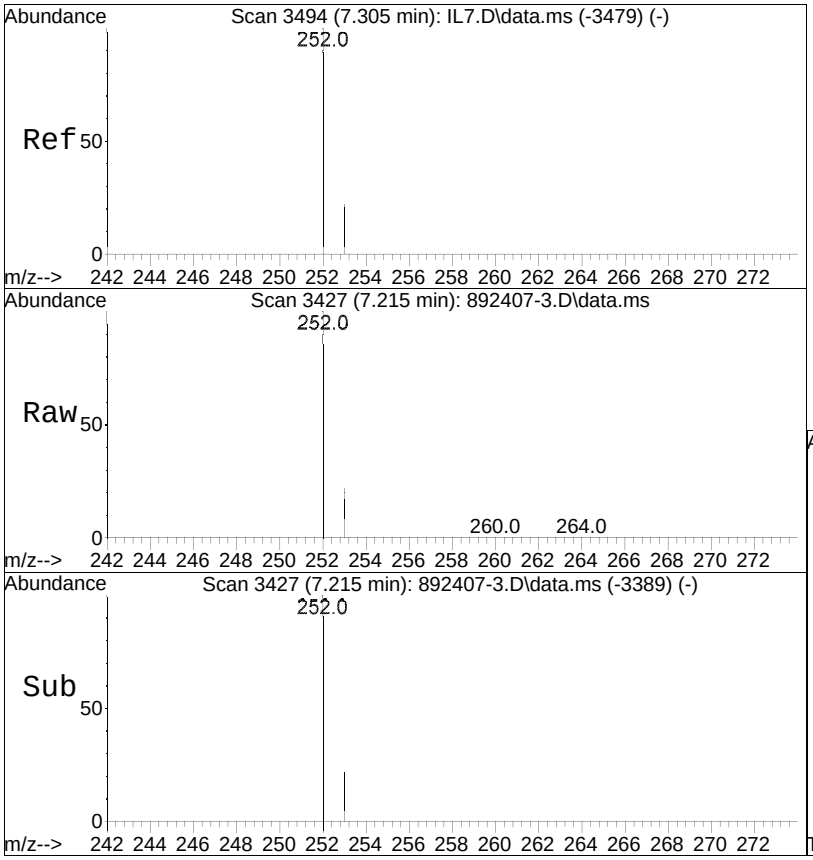


#38
Benzo[k]fluoranthene
Concen: 3165.53 ng/ml
RT: 6.949 min Scan# 3297
Delta R.T. -0.024 min
Lab File: 892407-3.D
Acq: 06 Mar 2024 08:16 am

Tgt Ion:252 Resp: 166334

Ion	Ratio	Lower	Upper
252	100		
253	22.2	17.4	26.2

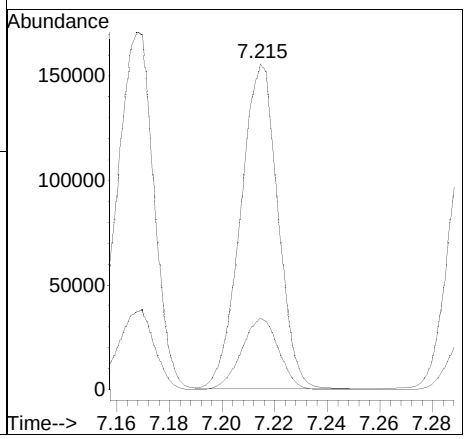


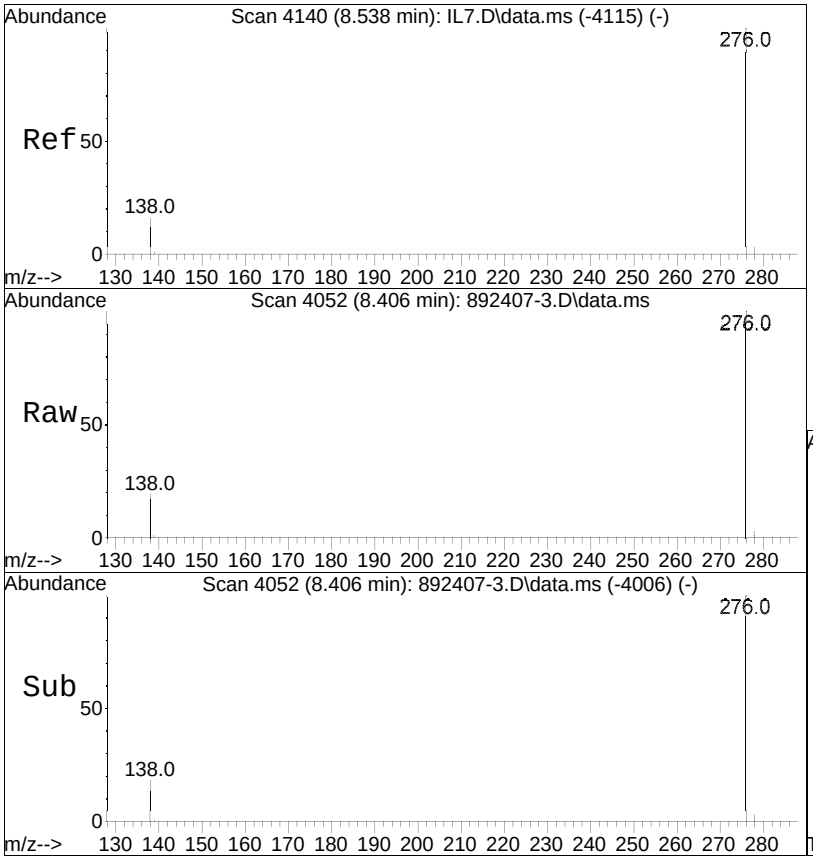


#39
Benzo[a]pyrene
Concen: 3125.37 ng/ml
RT: 7.215 min Scan# 3427
Delta R.T. -0.022 min
Lab File: 892407-3.D
Acq: 06 Mar 2024 08:16 am

Tgt Ion:252 Resp: 152231

Ion	Ratio	Lower	Upper
252	100		
253	21.9	17.4	26.0

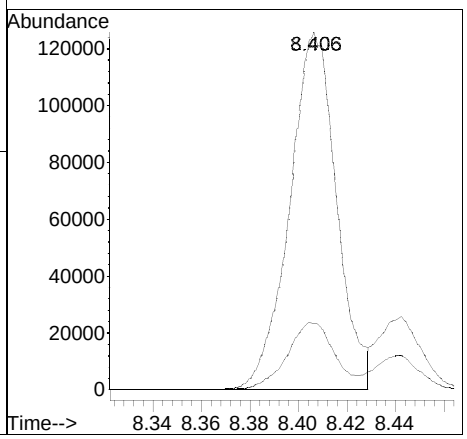


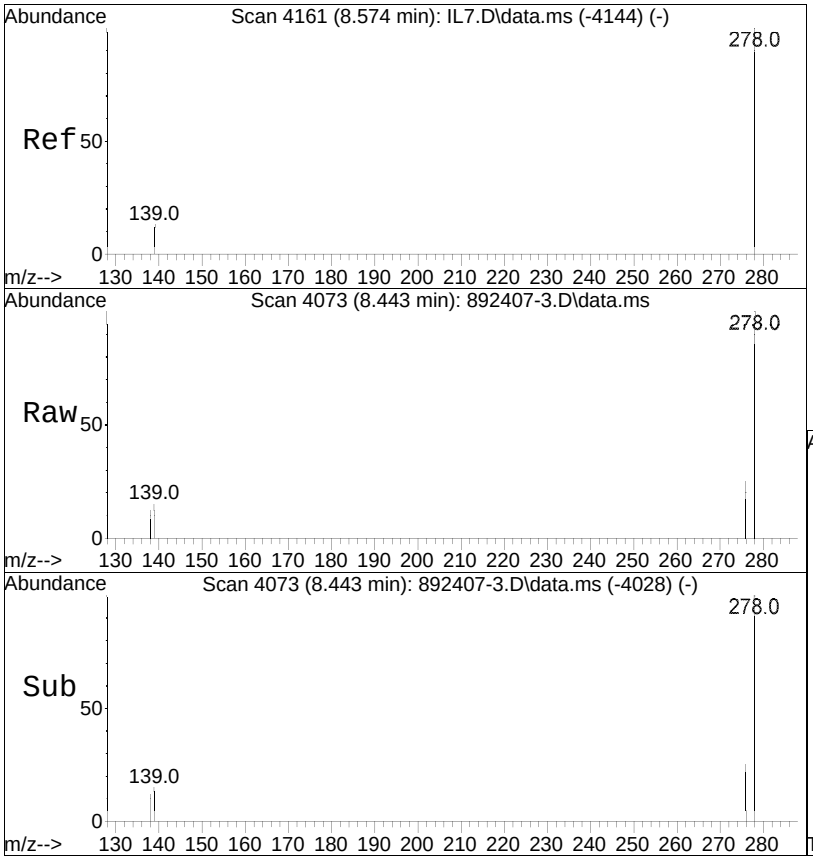


#40
Indeno[1,2,3-cd]pyrene
Concen: 3164.39 ng/ml
RT: 8.406 min Scan# 4052
Delta R.T. -0.021 min
Lab File: 892407-3.D
Acq: 06 Mar 2024 08:16 am

Tgt Ion:276 Resp: 167515

Ion	Ratio	Lower	Upper
276	100		
138	19.2	14.8	22.2

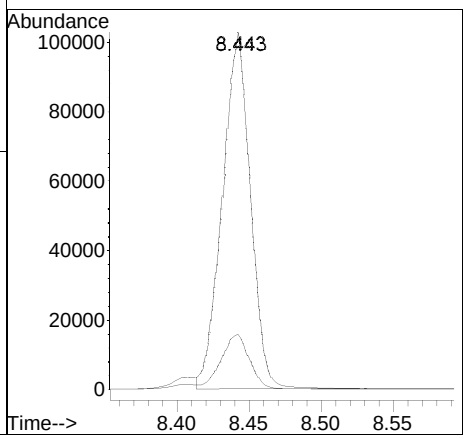


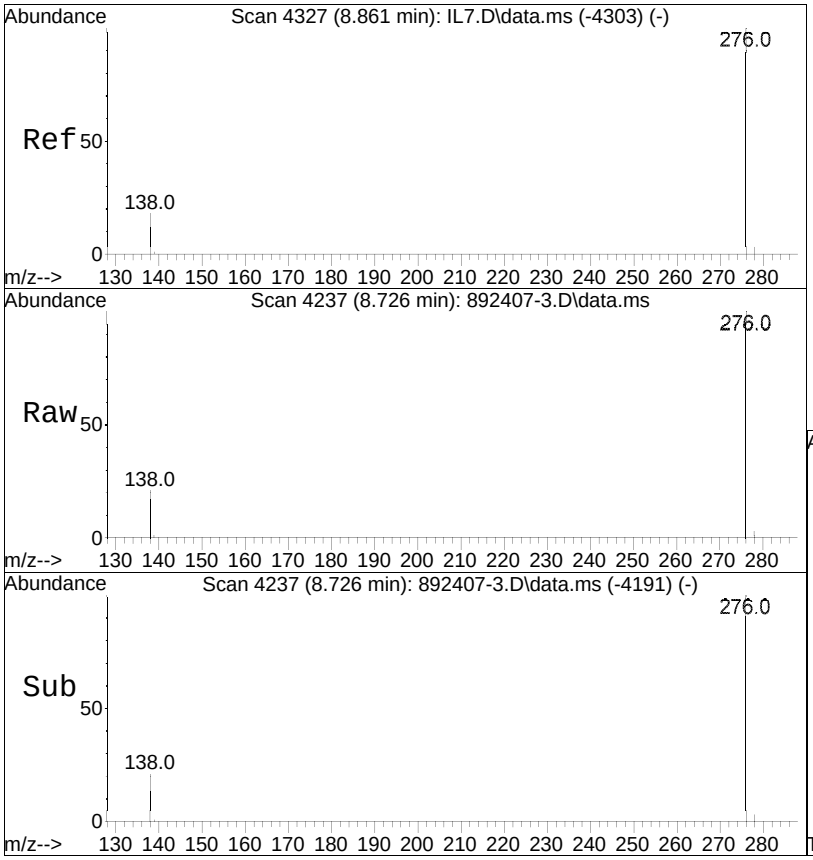


#41
Dibenzo[a,h]anthracene
Concen: 2797.30 ng/ml
RT: 8.443 min Scan# 4073
Delta R.T. -0.022 min
Lab File: 892407-3.D
Acq: 06 Mar 2024 08:16 am

Tgt Ion:278 Resp: 137775

Ion	Ratio	Lower	Upper
278	100		
139	15.6	12.2	18.4

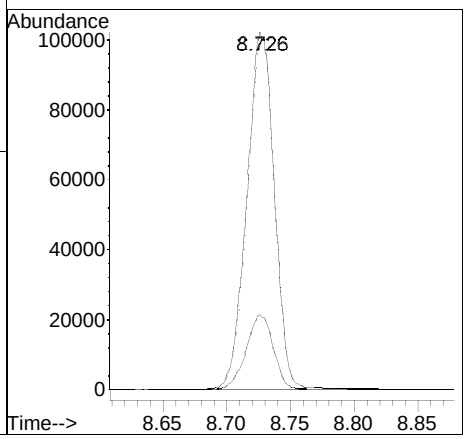




#42
Benzo[g,h,i]perylene
Concen: 2798.39 ng/ml
RT: 8.726 min Scan# 4237
Delta R.T. -0.021 min
Lab File: 892407-3.D
Acq: 06 Mar 2024 08:16 am

Tgt Ion:276 Resp: 150687

Ion	Ratio	Lower	Upper
276	100		
138	20.8	16.8	25.2



Manual Integration Report

Data Path	: I:\8270SIM\sv119\240306LVI	QMethod	: SIM-LVI_231207n_sv119.M
Data File	: 892407-3.D	Operator	: sv119:jjw
Date Inj'd	: 3/6/2024 8:16 am	Instrument	: SV119
Sample	: WG1892407-3,32,,ah	Quant Date	: 3/6/2024 8:32 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV128\240305\
Data File : 892049-4.D
Acq On : 05 Mar 2024 12:11 pm
Operator : SV128:jjw
Sample : Wg1892049-4,32,,ah
Misc : WG1892213,wg1892049,ical20676
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Mar 05 12:42:13 2024
Quant Method : I:\8270sim\sv128\240305\SIM-LVI_231211_sv128.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Mar 05 07:15:56 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv128\240305\ccv0305a.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.269	152	3054	4000.000	ng/ml	0.00
Standard Area 1 = 1565			Recovery = 195.14%			
8) Naphthalene-d8	2.945	136	11767	4000.000	ng/ml	0.00
Standard Area 1 = 5966			Recovery = 197.23%			
17) Acenaphthene-d10	3.940	164	6530	4000.000	ng/ml	0.00
Standard Area 1 = 4044			Recovery = 161.47%			
22) Phenanthrene-d10	4.796	188	14352	4000.000	ng/ml	0.00
Standard Area 1 = 10610			Recovery = 135.27%			
31) Chrysene-d12	6.389	240	13213	4000.000	ng/ml	0.00
Standard Area 1 = 12274			Recovery = 107.65%			
36) Perylene-d12	7.692	264	15912	4000.000	ng/ml	-0.01
Standard Area 1 = 14188			Recovery = 112.15%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.662	112	2290	2977.708	ng/ml	0.01
Spiked Amount 5000.000	Range 15 - 110		Recovery = 59.55%			
3) Phenol-d6	2.083	99	2515	2798.258	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 55.97%			
7) Nitrobenzene-d5	2.557	82	1404	1932.984	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 77.32%			
13) 2-Fluorobiphenyl	3.552	172	4145	1661.030	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 66.44%			
21) 2,4,6-Tribromophenol	4.395	330	1408	4314.859	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 86.30%			
30) 4-Terphenyl-d14	5.729	244	5460	1826.062	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 73.04%			
Target Compounds						Qvalue
6) Hexachloroethane	2.532	117	1058	2900.749	ng/ml	92
9) Naphthalene	2.957	128	9162	3036.231	ng/ml#	100
10) Hexachlorobutadiene	3.030	225	1963	2839.876	ng/ml	99
11) 2-Methylnaphthalene	3.345	142	6398	3319.034	ng/ml	100
14) 2-Chloronaphthalene	3.619	162	6971	3321.787	ng/ml	94
16) Acenaphthylene	3.858	152	10775	3466.045	ng/ml	99
18) Acenaphthene	3.959	153	7416	3359.593	ng/ml	91
20) Fluorene	4.255	166	8170	3667.280	ng/ml	99
24) Hexachlorobenzene	4.577	284	3217M6	3368.572	ng/ml	
25) Pentachlorophenol	4.693	266	1785	3753.093	ng/ml	99

Data Path : I:\8270SIM\SV128\240305\
Data File : 892049-4.D
Acq On : 05 Mar 2024 12:11 pm
Operator : SV128:jjw
Sample : Wg1892049-4,32,,ah
Misc : WG1892213,wg1892049,ical20676
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Mar 05 12:42:13 2024
Quant Method : I:\8270sim\sv128\240305\SIM-LVI_231211_sv128.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Mar 05 07:15:56 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv128\240305\ccv0305a.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Phenanthrene	4.811	178	13334	3435.764	ng/ml	100
27) Anthracene	4.840	178	13351	3560.275	ng/ml	100
28) Fluoranthene	5.502	202	15951	3741.022	ng/ml	99
29) Pyrene	5.636	202	16828	3814.587	ng/ml	98
32) Benzo[a]anthracene	6.380	228	16872	3555.310	ng/ml	100
34) Chrysene	6.405	228	15616	3428.171	ng/ml	99
37) Benzo[b]fluoranthene	7.289	252	17355	3521.972	ng/ml	100
38) Benzo[k]fluoranthene	7.318	252	17351	3783.775	ng/ml	99
39) Benzo[a]pyrene	7.626	252	15811	3643.748	ng/ml	100
40) Indeno[1,2,3-cd]pyrene	9.004	276	18693	4308.250	ng/ml	97
41) Dibenzo[a,h]anthracene	9.042	278	17861M6	4238.398	ng/ml	
42) Benzo[g,h,i]perylene	9.364	276	17612M1	3905.179	ng/ml	

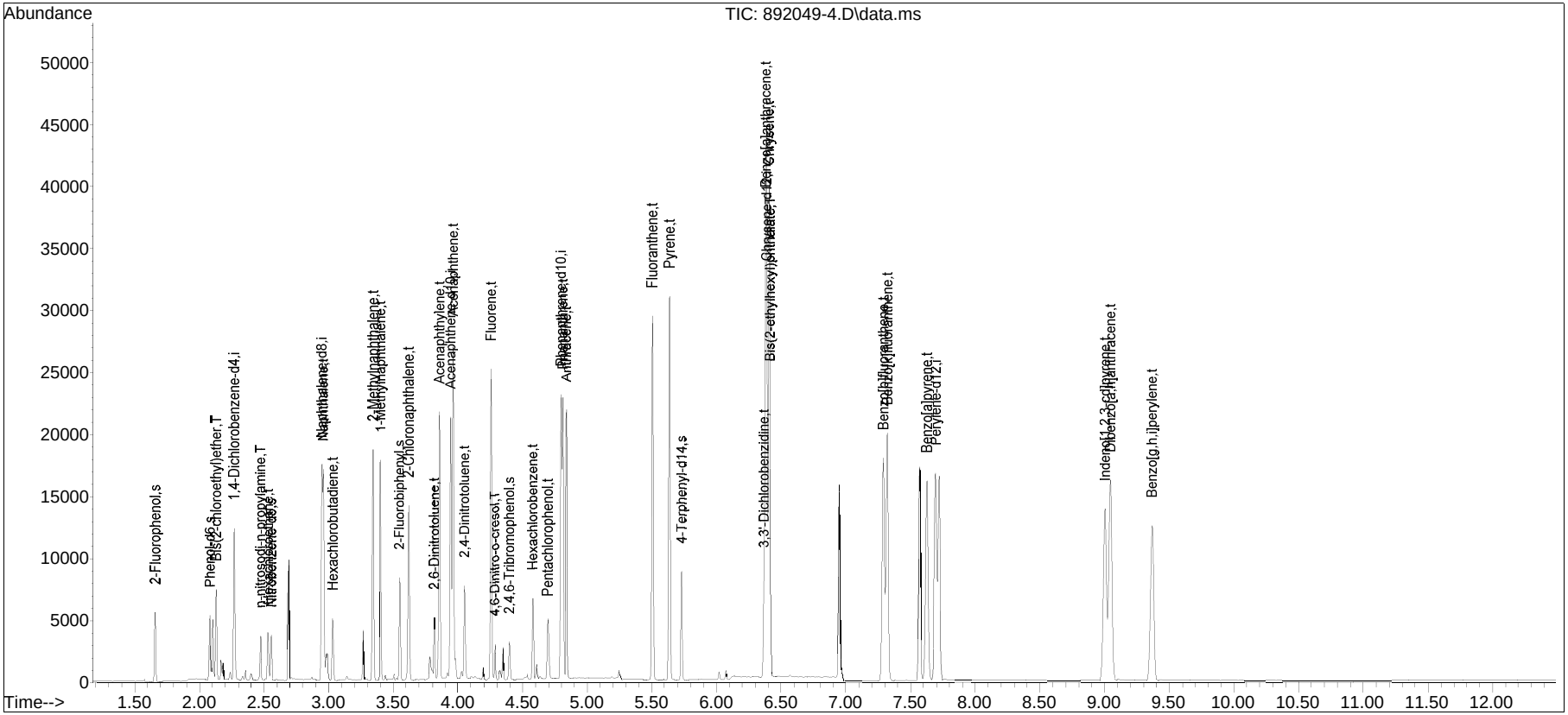
(#) = qualifier out of range (m) = manual integration (+) = signals summed

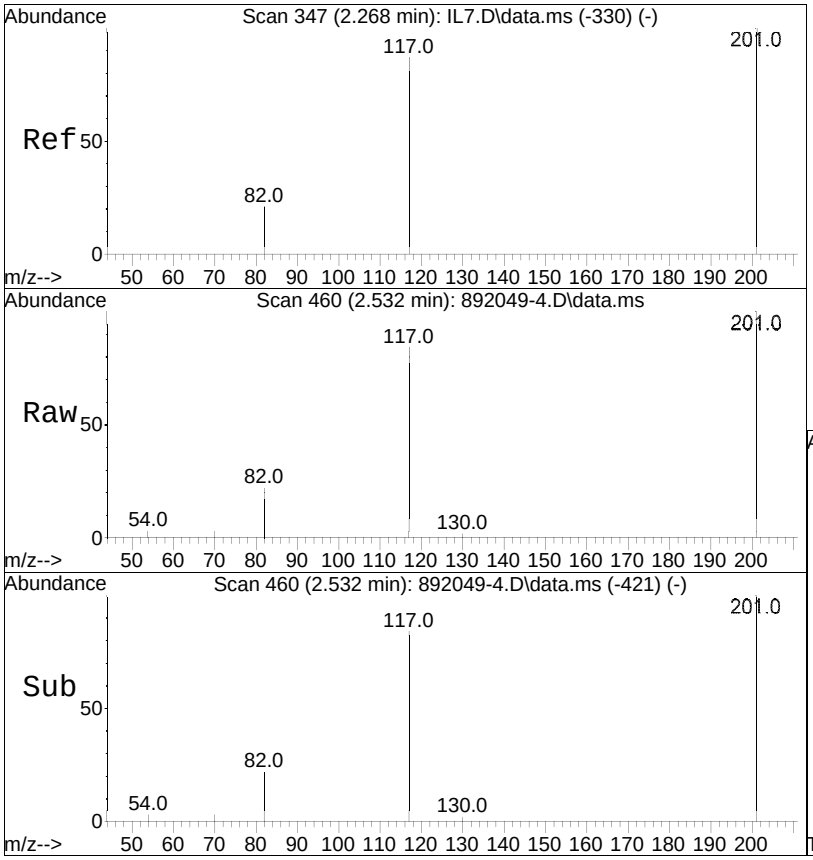
Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV128\240305\
Data File : 892049-4.D
Acq On : 05 Mar 2024 12:11 pm
Operator : SV128:jjw
Sample : Wg1892049-4,32,,ah
Misc : WG1892213,wg1892049,ical20676
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Mar 05 12:42:13 2024
Quant Method : I:\8270sim\sv128\240305\SIM-LVI_231211_sv128.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Mar 05 07:15:56 2024
Response via : Initial Calibration

Sub List : DEFAULT - All compounds listedv0305a.D•

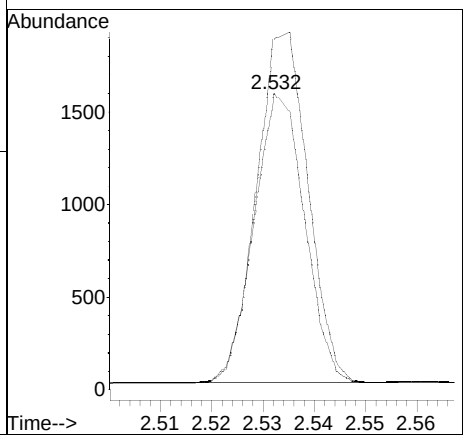


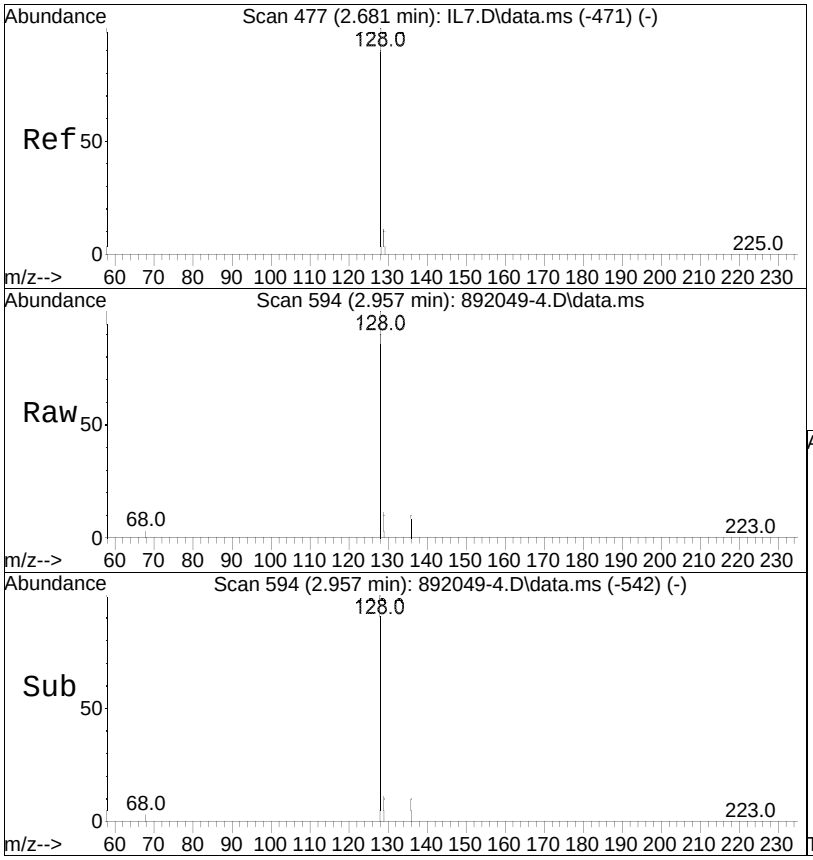


#6
Hexachloroethane
Concen: 2900.75 ng/ml
RT: 2.532 min Scan# 460
Delta R.T. -0.000 min
Lab File: 892049-4.D
Acq: 05 Mar 2024 12:11 pm

Tgt Ion:117 Resp: 1058

Ion	Ratio	Lower	Upper
117	100		
201	123.7	91.8	137.6

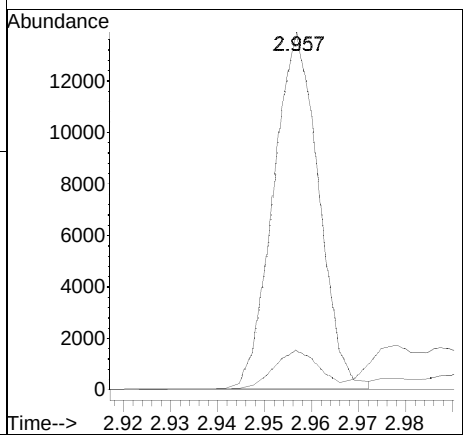


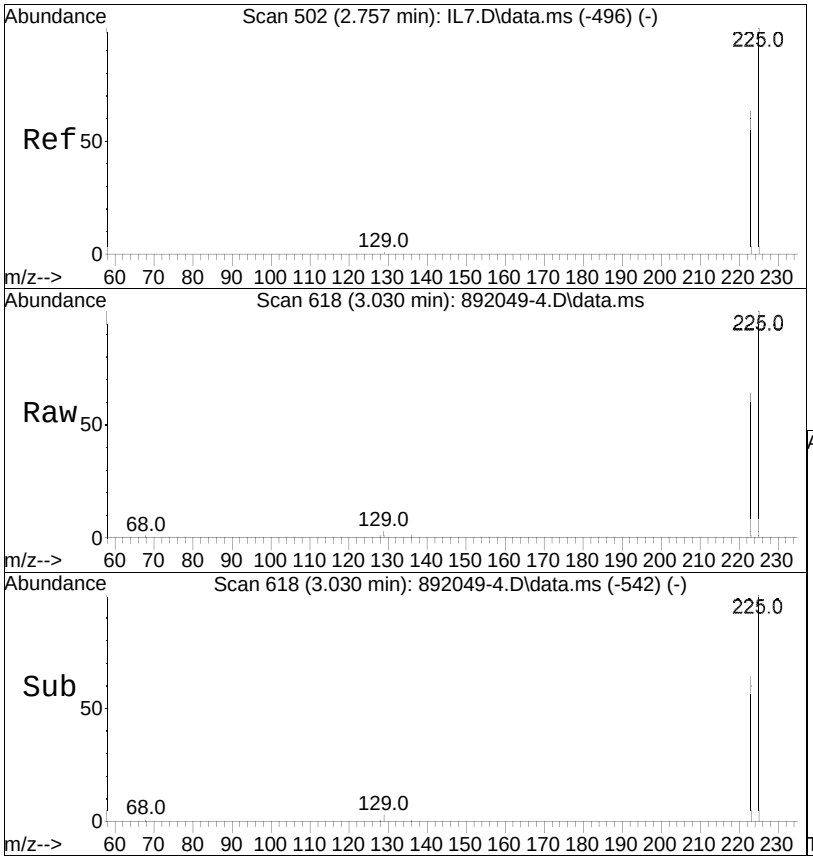


#9
Naphthalene
Concen: 3036.23 ng/ml
RT: 2.957 min Scan# 594
Delta R.T. -0.000 min
Lab File: 892049-4.D
Acq: 05 Mar 2024 12:11 pm

Tgt Ion:128 Resp: 9162

Ion	Ratio	Lower	Upper
128	100		
129	10.9	8.8	13.2
127	0.0	0.0	0.0

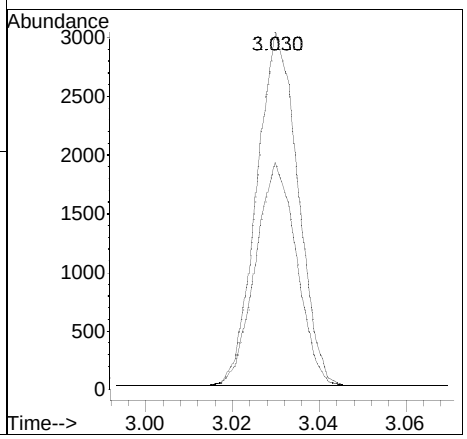


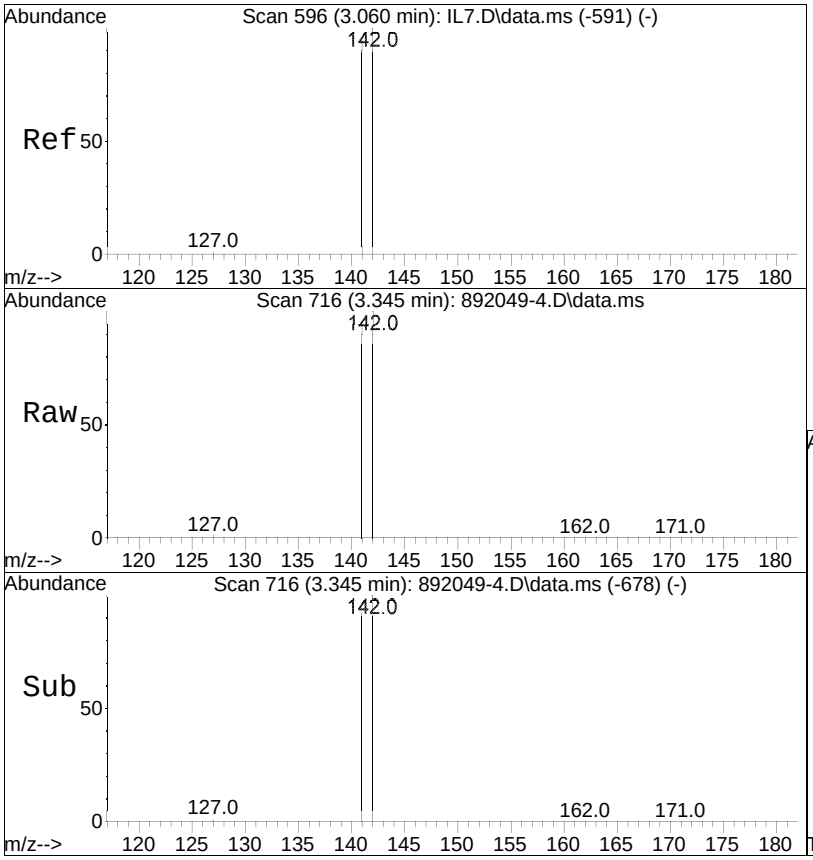


#10
Hexachlorobutadiene
Concen: 2839.88 ng/ml
RT: 3.030 min Scan# 618
Delta R.T. -0.000 min
Lab File: 892049-4.D
Acq: 05 Mar 2024 12:11 pm

Tgt Ion:225 Resp: 1963

Ion	Ratio	Lower	Upper
225	100		
223	62.9	49.9	74.9

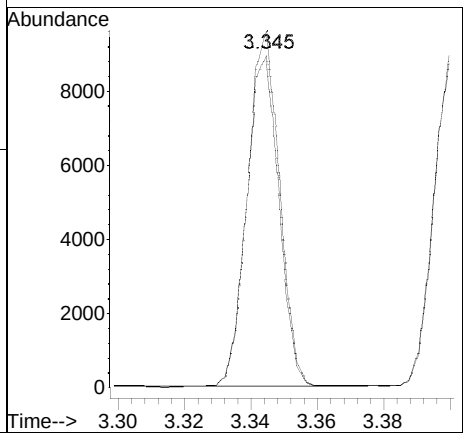


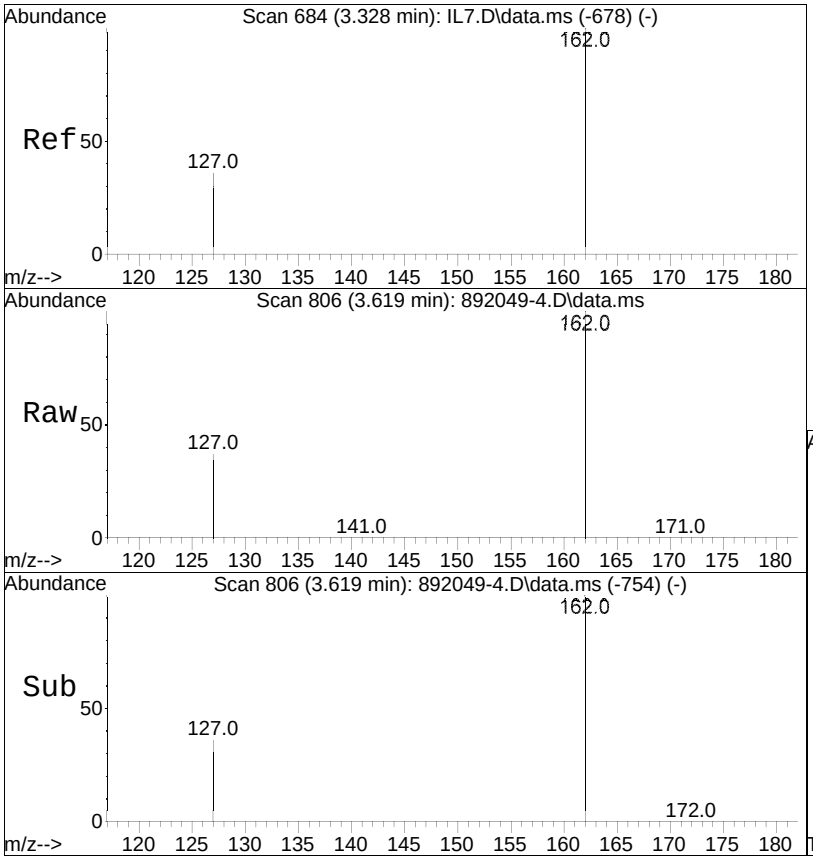


#11
2-Methylnaphthalene
Concen: 3319.03 ng/ml
RT: 3.345 min Scan# 716
Delta R.T. 0.000 min
Lab File: 892049-4.D
Acq: 05 Mar 2024 12:11 pm

Tgt Ion:142 Resp: 6398

Ion	Ratio	Lower	Upper
142	100		
141	94.9	75.9	113.9

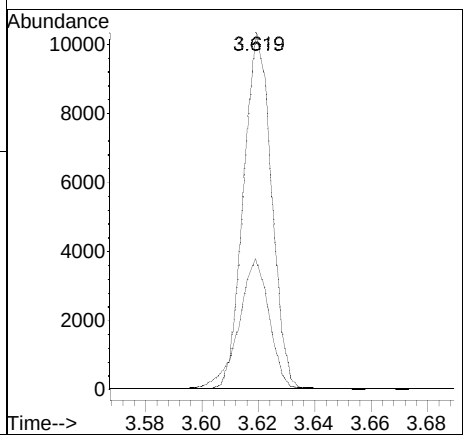


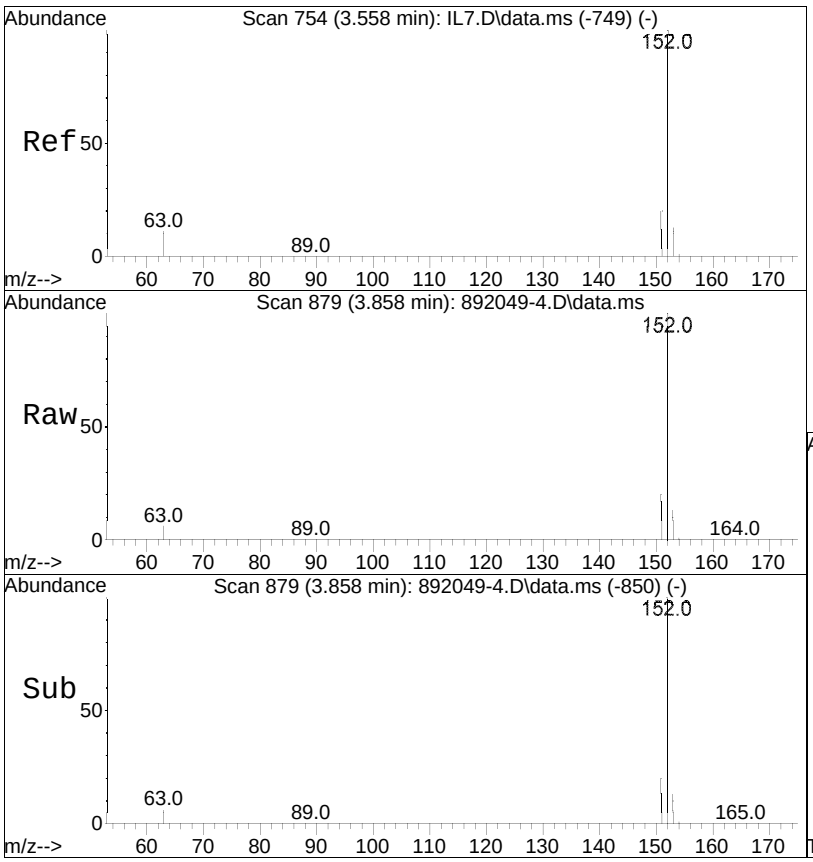


#14
2-Chloronaphthalene
Concen: 3321.79 ng/ml
RT: 3.619 min Scan# 806
Delta R.T. -0.003 min
Lab File: 892049-4.D
Acq: 05 Mar 2024 12:11 pm

Tgt Ion:162 Resp: 6971

Ion	Ratio	Lower	Upper
162	100		
127	40.4	29.3	43.9

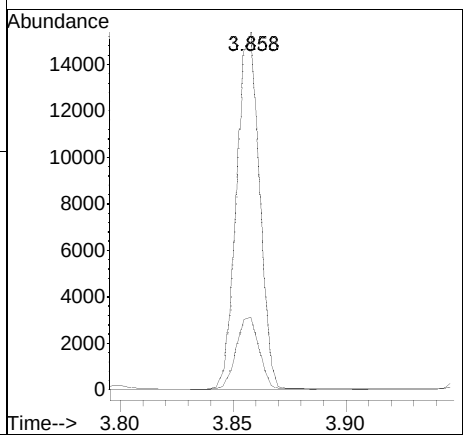


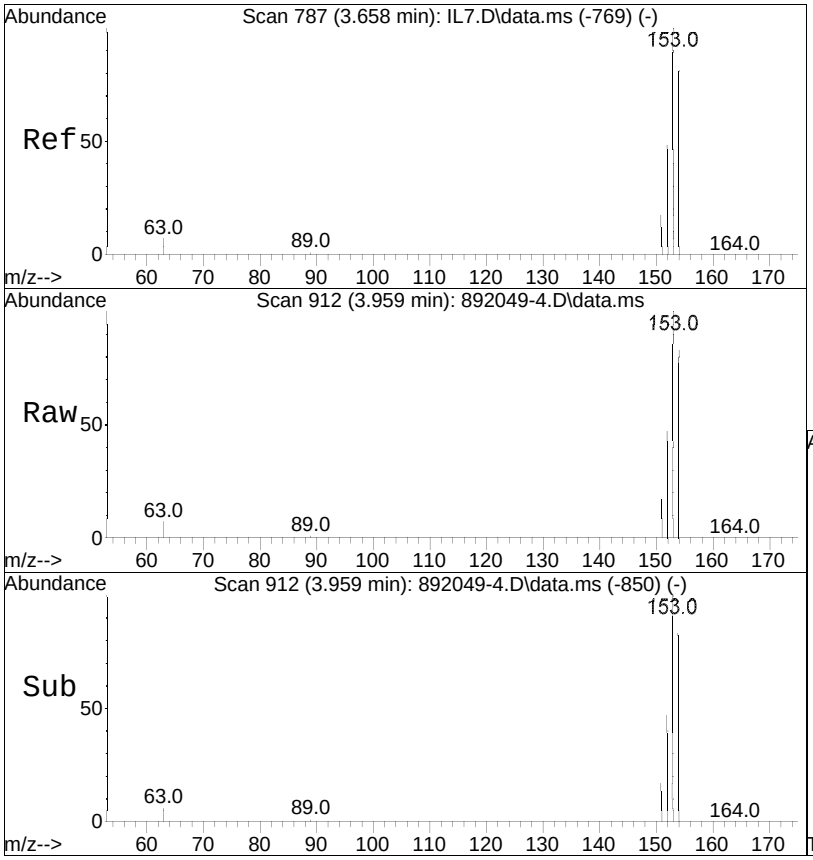


#16
Acenaphthylene
Concen: 3466.05 ng/ml
RT: 3.858 min Scan# 879
Delta R.T. -0.003 min
Lab File: 892049-4.D
Acq: 05 Mar 2024 12:11 pm

Tgt Ion:152 Resp: 10775

Ion	Ratio	Lower	Upper
152	100		
151	20.0	16.4	24.6

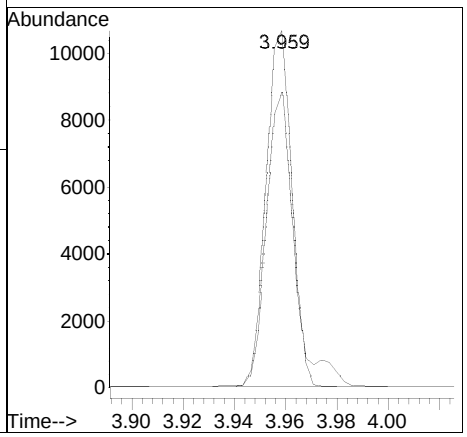


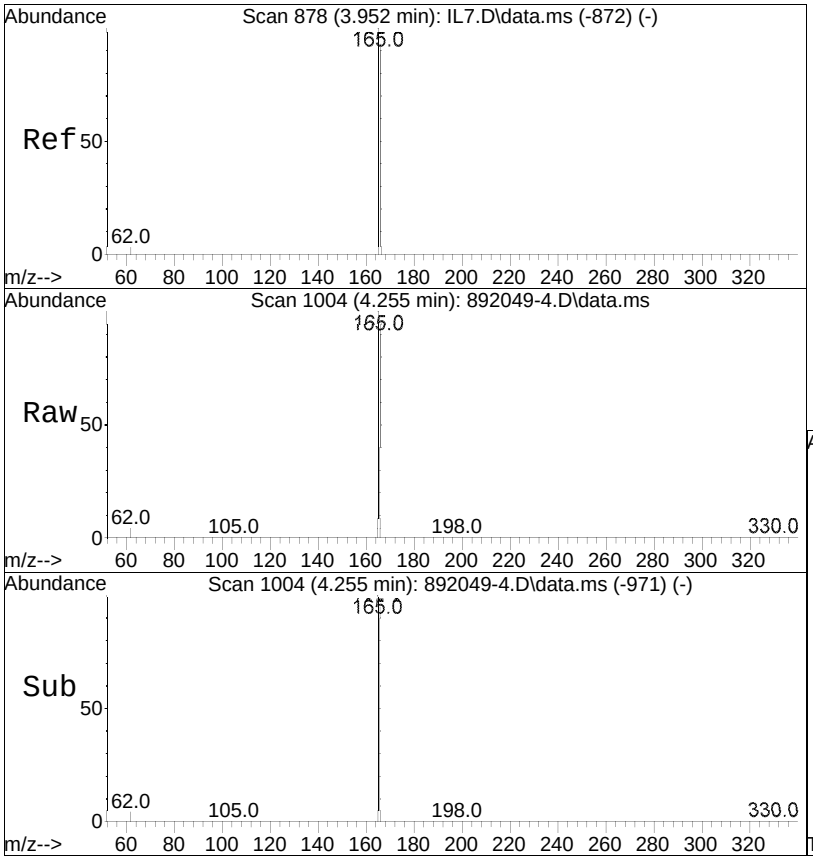


#18
Acenaphthene
Concen: 3359.59 ng/ml
RT: 3.959 min Scan# 912
Delta R.T. -0.003 min
Lab File: 892049-4.D
Acq: 05 Mar 2024 12:11 pm

Tgt Ion:153 Resp: 7416

Ion	Ratio	Lower	Upper
153	100		
154	90.0	65.8	98.6

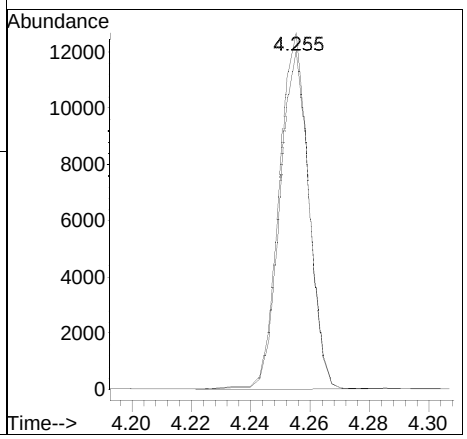


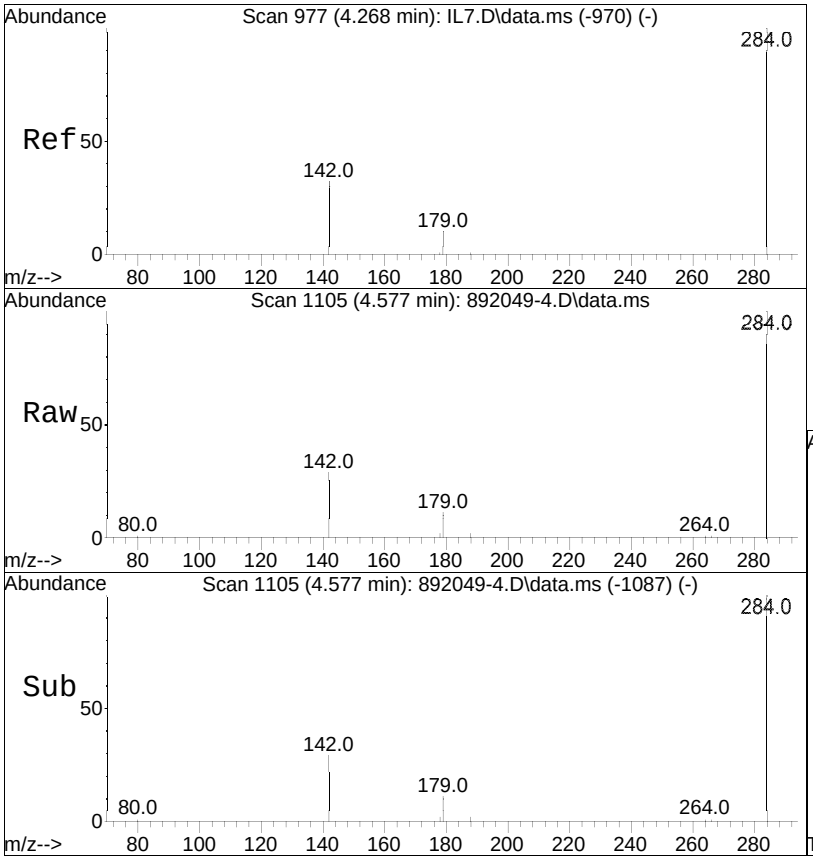


#20
Fluorene
Concen: 3667.28 ng/ml
RT: 4.255 min Scan# 1004
Delta R.T. -0.003 min
Lab File: 892049-4.D
Acq: 05 Mar 2024 12:11 pm

Tgt Ion:166 Resp: 8170

Ion	Ratio	Lower	Upper
166	100		
165	105.9	85.7	128.5

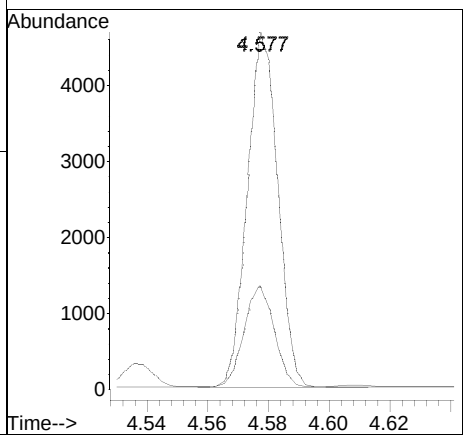


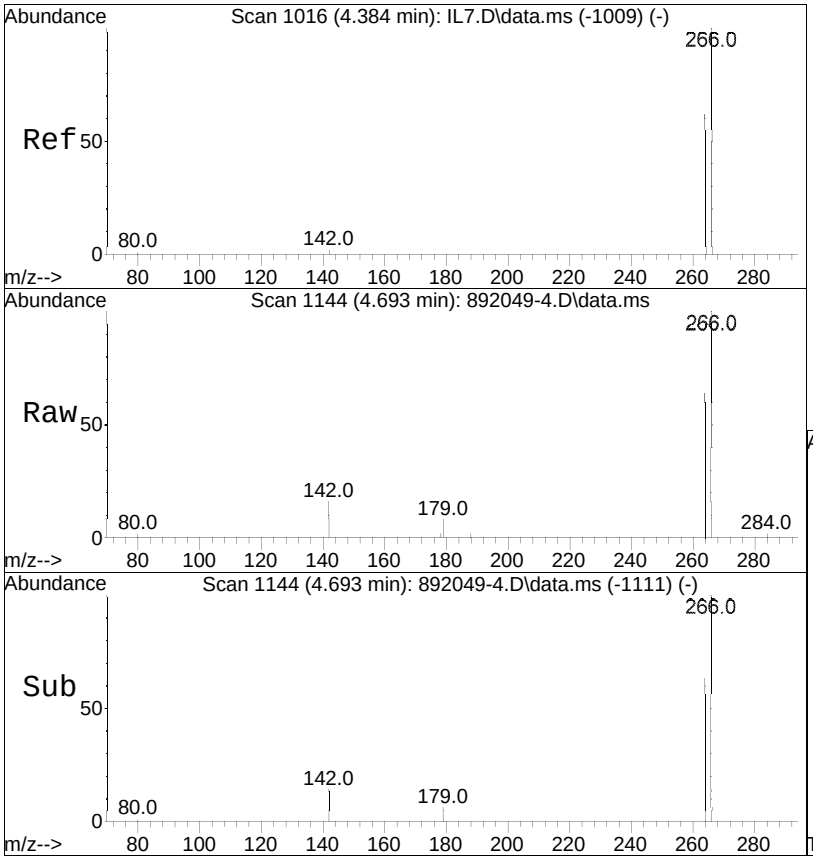


#24
Hexachlorobenzene
Concen: 3368.57 ng/ml M6
RT: 4.577 min Scan# 1105
Delta R.T. -0.006 min
Lab File: 892049-4.D
Acq: 05 Mar 2024 12:11 pm

Tgt Ion:284 Resp: 3217

Ion	Ratio	Lower	Upper
284	100		
142	29.3	23.9	35.9

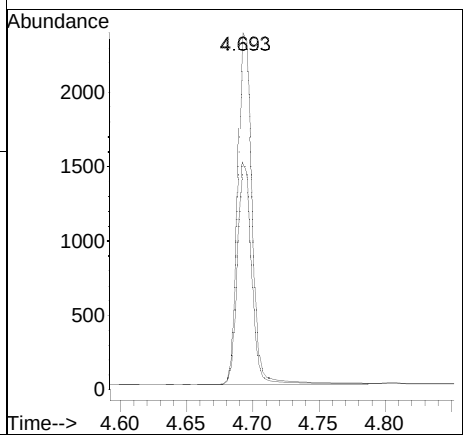


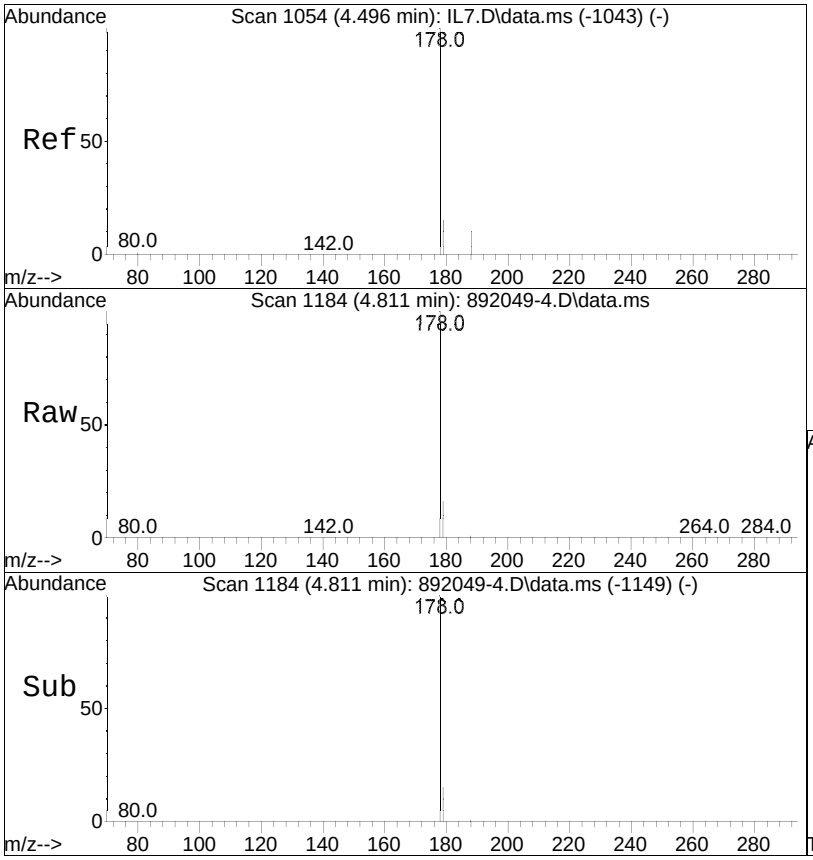


#25
Pentachlorophenol
Concen: 3753.09 ng/ml
RT: 4.693 min Scan# 1144
Delta R.T. -0.006 min
Lab File: 892049-4.D
Acq: 05 Mar 2024 12:11 pm

Tgt Ion:266 Resp: 1785

Ion	Ratio	Lower	Upper
266	100		
264	62.9	49.7	74.5

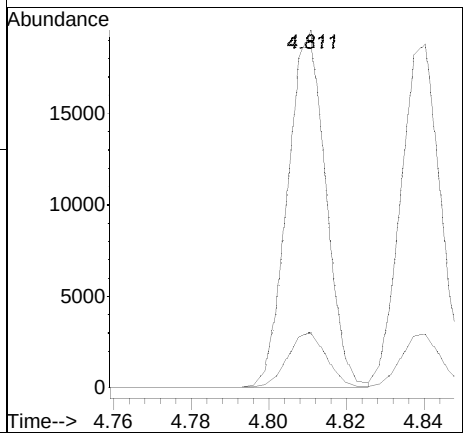


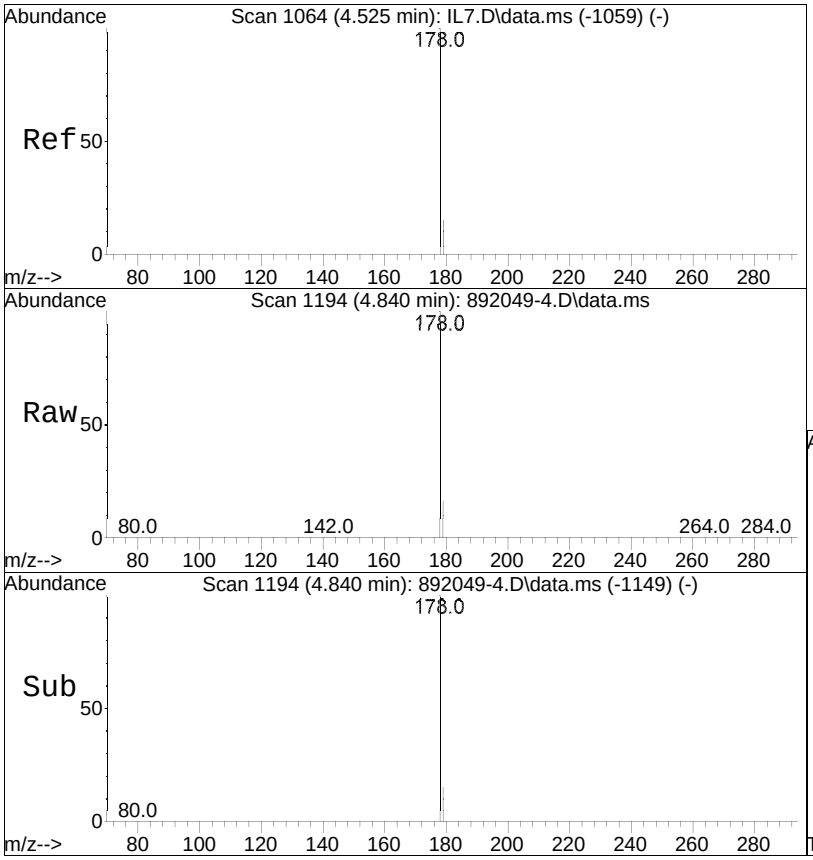


#26
Phenanthrene
Concen: 3435.76 ng/ml
RT: 4.811 min Scan# 1184
Delta R.T. -0.003 min
Lab File: 892049-4.D
Acq: 05 Mar 2024 12:11 pm

Tgt Ion:178 Resp: 13334

Ion	Ratio	Lower	Upper
178	100		
179	15.4	12.2	18.4

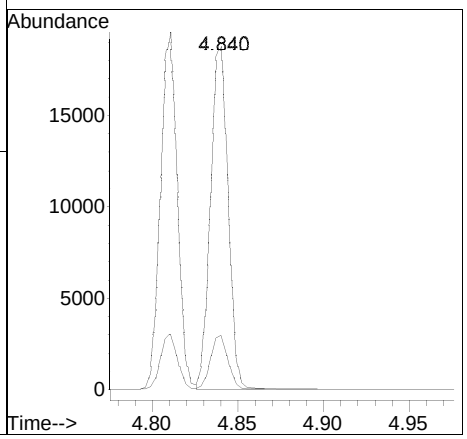


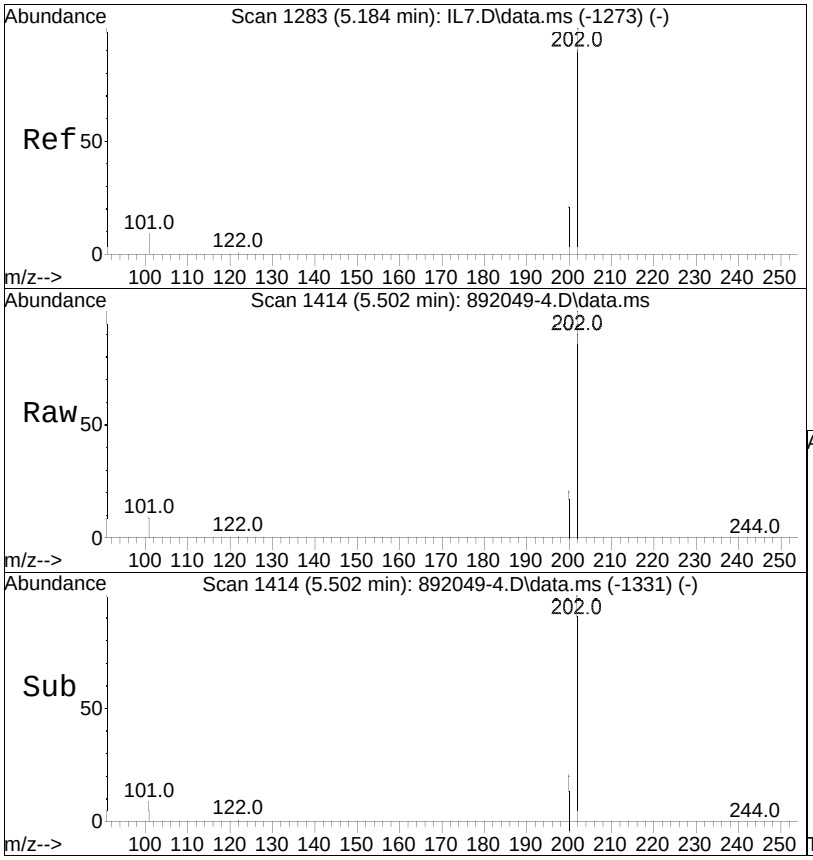


#27
Anthracene
Concen: 3560.27 ng/ml
RT: 4.840 min Scan# 1194
Delta R.T. -0.003 min
Lab File: 892049-4.D
Acq: 05 Mar 2024 12:11 pm

Tgt Ion:178 Resp: 13351

Ion	Ratio	Lower	Upper
178	100		
179	15.4	12.2	18.2

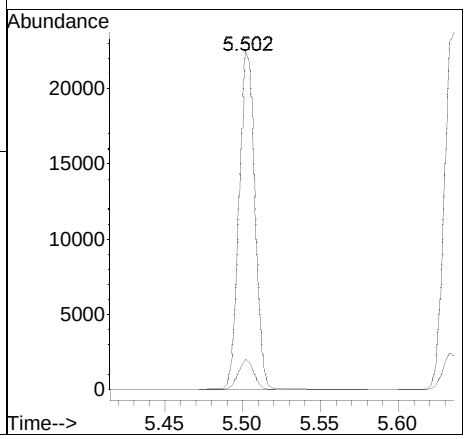


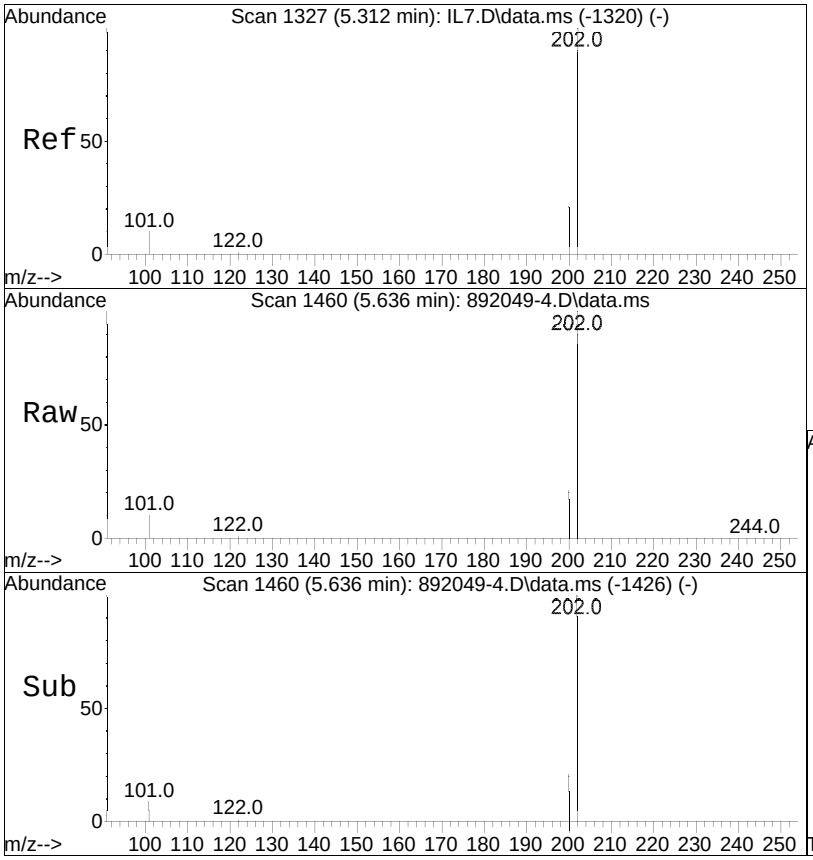


#28
Fluoranthene
Concen: 3741.02 ng/ml
RT: 5.502 min Scan# 1414
Delta R.T. -0.009 min
Lab File: 892049-4.D
Acq: 05 Mar 2024 12:11 pm

Tgt Ion:202 Resp: 15951

Ion	Ratio	Lower	Upper
202	100		
101	8.5	7.2	10.8

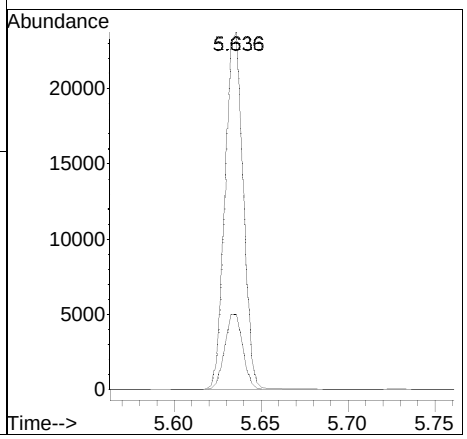


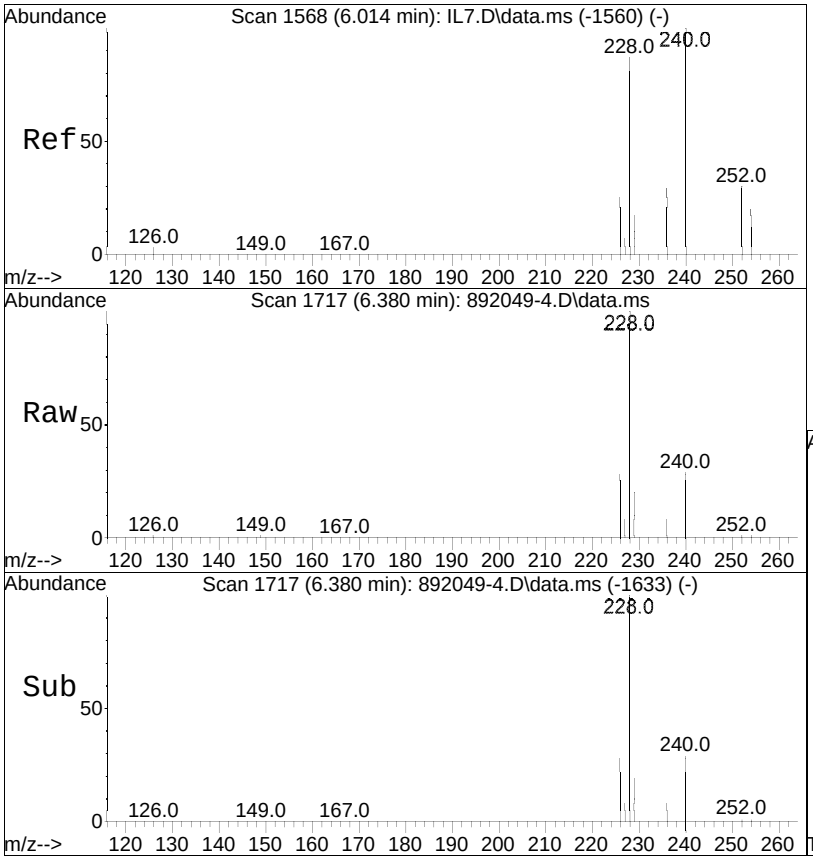


#29
Pyrene
Concen: 3814.59 ng/ml
RT: 5.636 min Scan# 1460
Delta R.T. -0.006 min
Lab File: 892049-4.D
Acq: 05 Mar 2024 12:11 pm

Tgt Ion:202 Resp: 16828

Ion	Ratio	Lower	Upper
202	100		
200	21.2	17.7	26.5

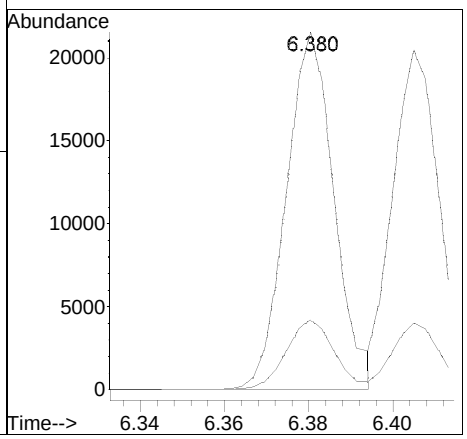


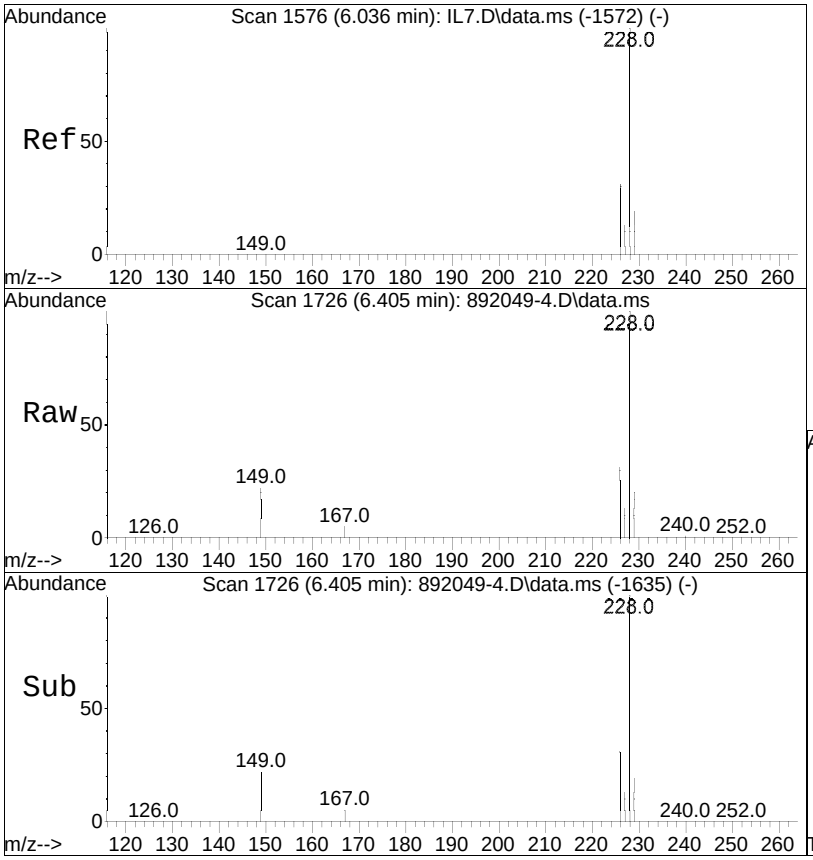


#32
Benzo[a]anthracene
Concen: 3555.31 ng/ml
RT: 6.380 min Scan# 1717
Delta R.T. -0.008 min
Lab File: 892049-4.D
Acq: 05 Mar 2024 12:11 pm

Tgt Ion:228 Resp: 16872

Ion	Ratio	Lower	Upper
228	100		
229	19.5	15.7	23.5

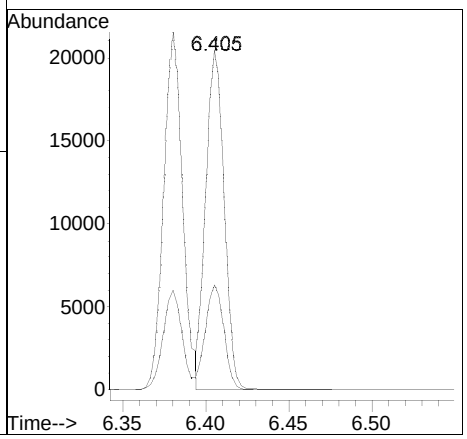


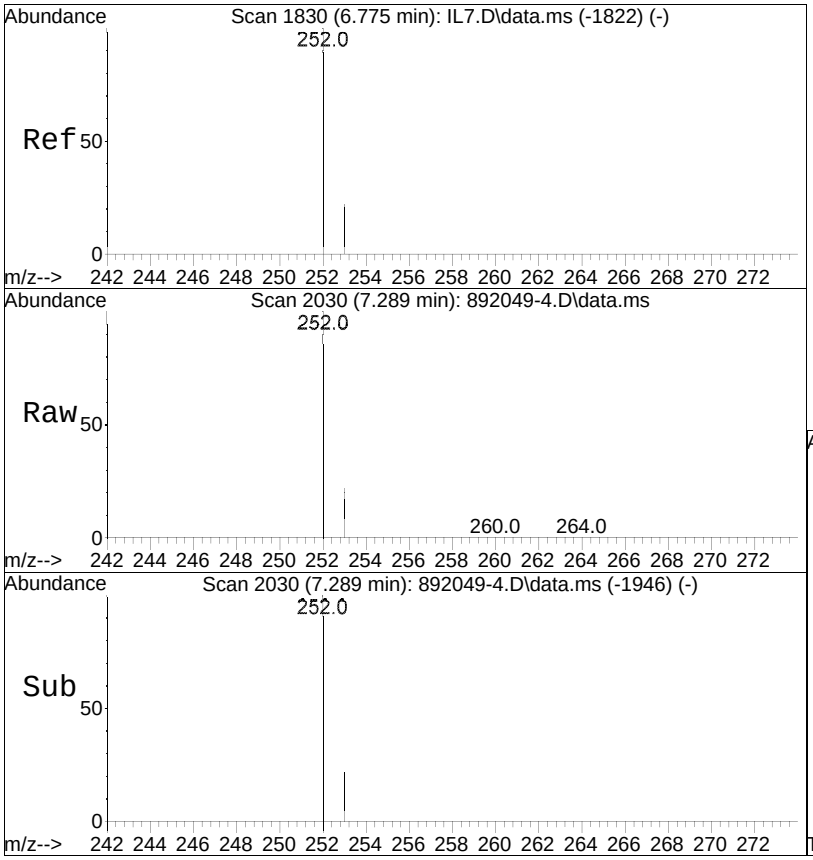


#34
Chrysene
Concen: 3428.17 ng/ml
RT: 6.405 min Scan# 1726
Delta R.T. -0.011 min
Lab File: 892049-4.D
Acq: 05 Mar 2024 12:11 pm

Tgt Ion:228 Resp: 15616

Ion	Ratio	Lower	Upper
228	100		
226	31.4	24.6	36.8

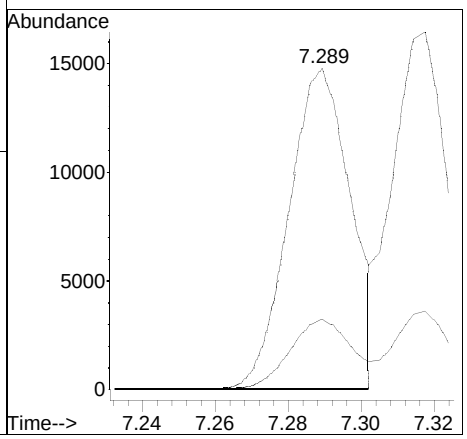


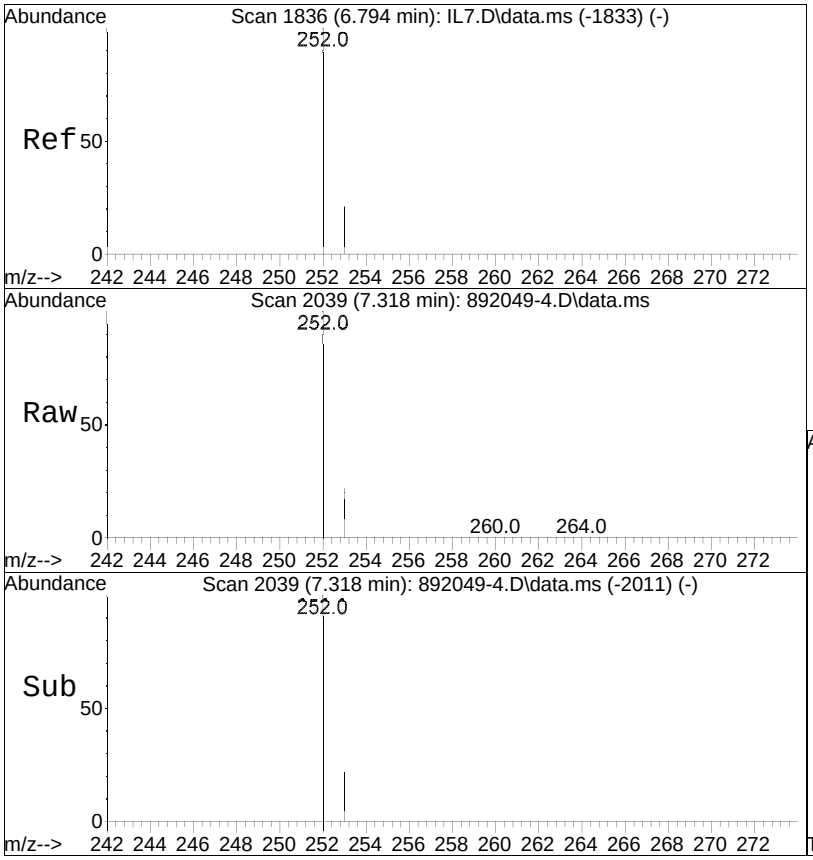


#37
Benzo[b]fluoranthene
Concen: 3521.97 ng/ml
RT: 7.289 min Scan# 2030
Delta R.T. -0.015 min
Lab File: 892049-4.D
Acq: 05 Mar 2024 12:11 pm

Tgt Ion:252 Resp: 17355

Ion	Ratio	Lower	Upper
252	100		
253	21.5	17.1	25.7

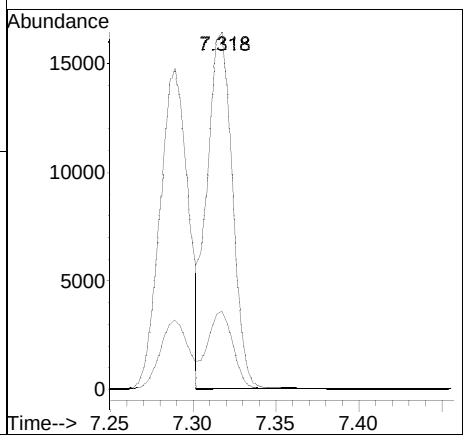


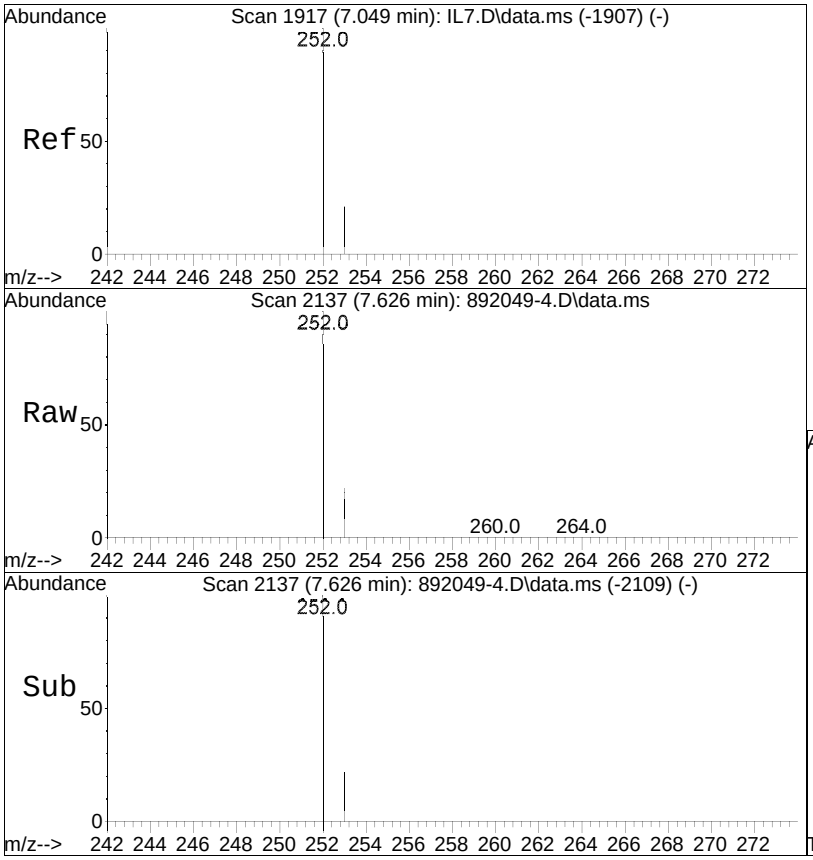


#38
Benzo[k]fluoranthene
Concen: 3783.77 ng/ml
RT: 7.318 min Scan# 2039
Delta R.T. -0.012 min
Lab File: 892049-4.D
Acq: 05 Mar 2024 12:11 pm

Tgt Ion:252 Resp: 17351

Ion	Ratio	Lower	Upper
252	100		
253	21.9	17.3	25.9

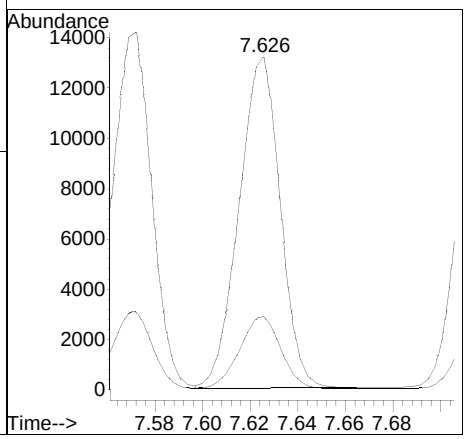


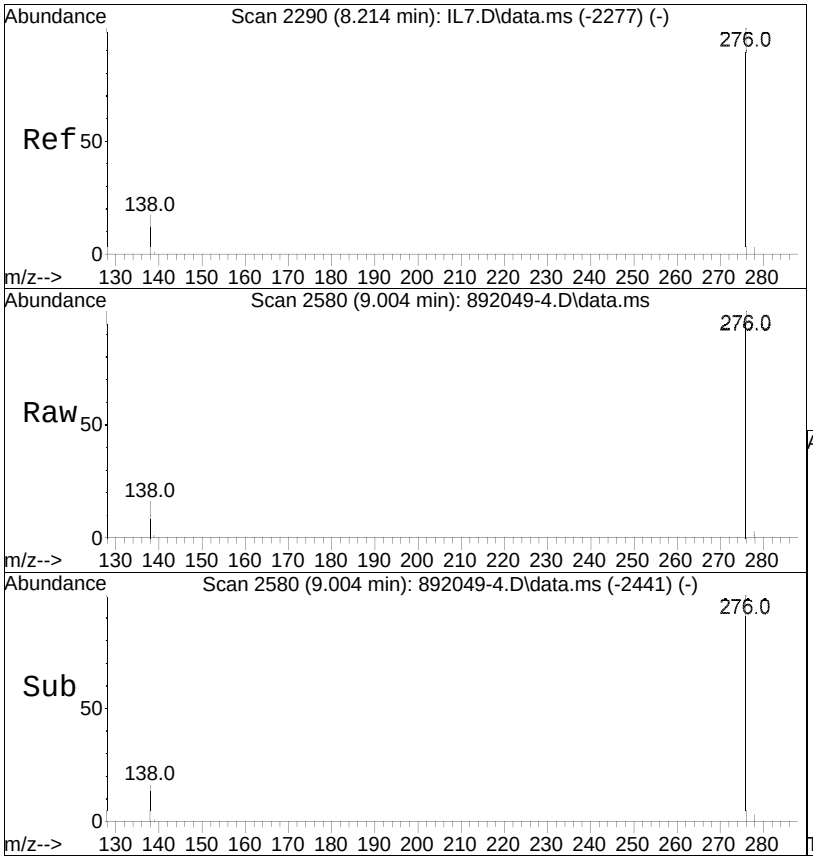


#39
Benzo[a]pyrene
Concen: 3643.75 ng/ml
RT: 7.626 min Scan# 2137
Delta R.T. -0.012 min
Lab File: 892049-4.D
Acq: 05 Mar 2024 12:11 pm

Tgt Ion:252 Resp: 15811

Ion	Ratio	Lower	Upper
252	100		
253	21.7	17.3	25.9

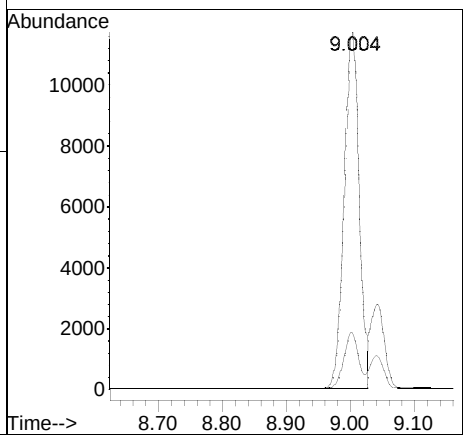


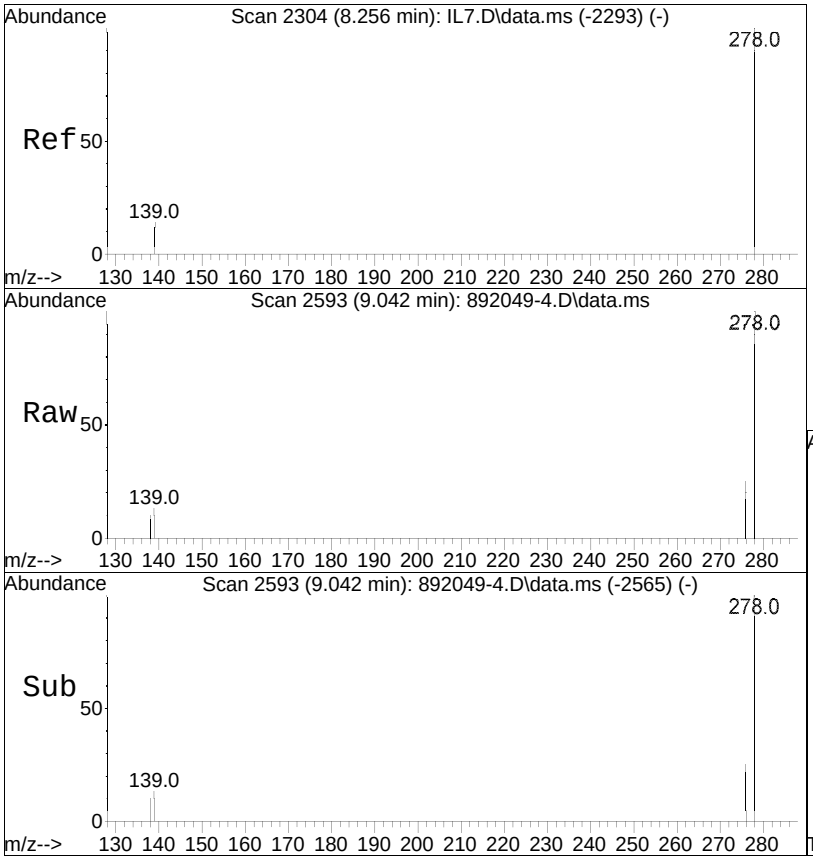


#40
Indeno[1,2,3-cd]pyrene
Concen: 4308.25 ng/ml
RT: 9.004 min Scan# 2580
Delta R.T. -0.017 min
Lab File: 892049-4.D
Acq: 05 Mar 2024 12:11 pm

Tgt Ion:276 Resp: 18693

Ion	Ratio	Lower	Upper
276	100		
138	15.4	13.4	20.2

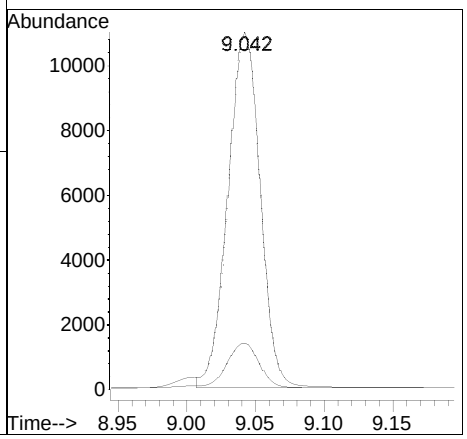


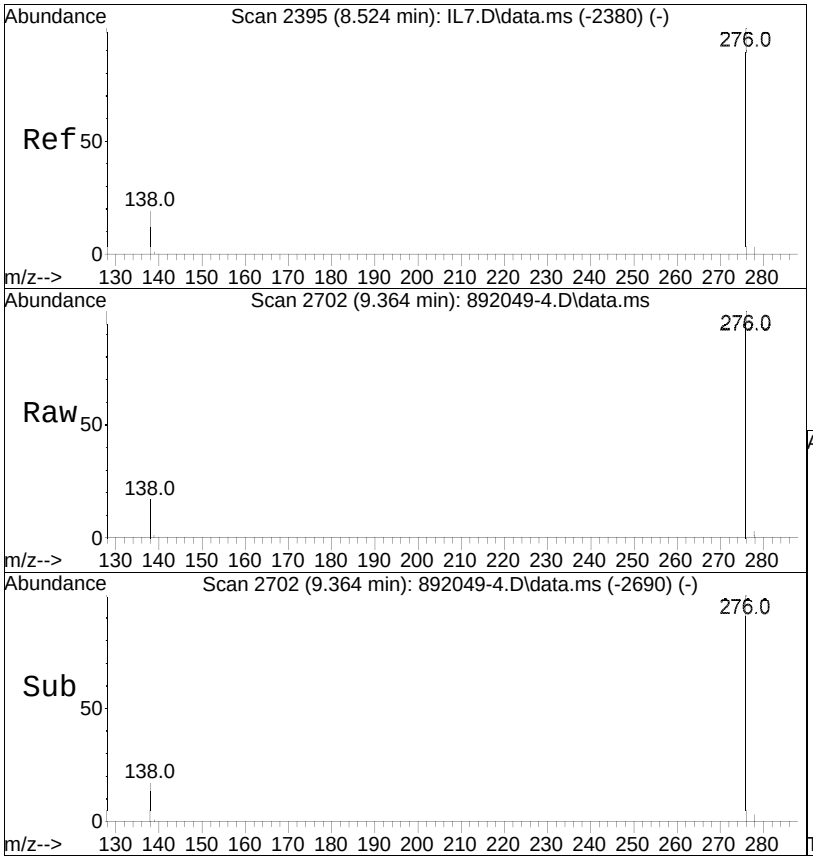


#41
Dibenzo[a,h]anthracene
Concen: 4238.40 ng/ml M6
RT: 9.042 min Scan# 2593
Delta R.T. -0.017 min
Lab File: 892049-4.D
Acq: 05 Mar 2024 12:11 pm

Tgt Ion:278 Resp: 17861

Ion	Ratio	Lower	Upper
278	100		
139	13.2	10.9	16.3

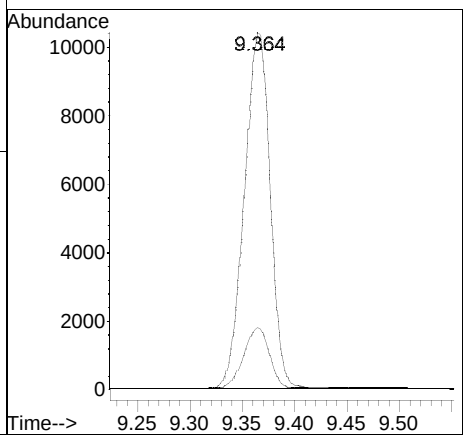




#42
Benzo[g,h,i]perylene
Concen: 3905.18 ng/ml M1
RT: 9.364 min Scan# 2702
Delta R.T. -0.014 min
Lab File: 892049-4.D
Acq: 05 Mar 2024 12:11 pm

Tgt Ion:276 Resp: 17612

Ion	Ratio	Lower	Upper
276	100		
138	17.0	14.8	22.2

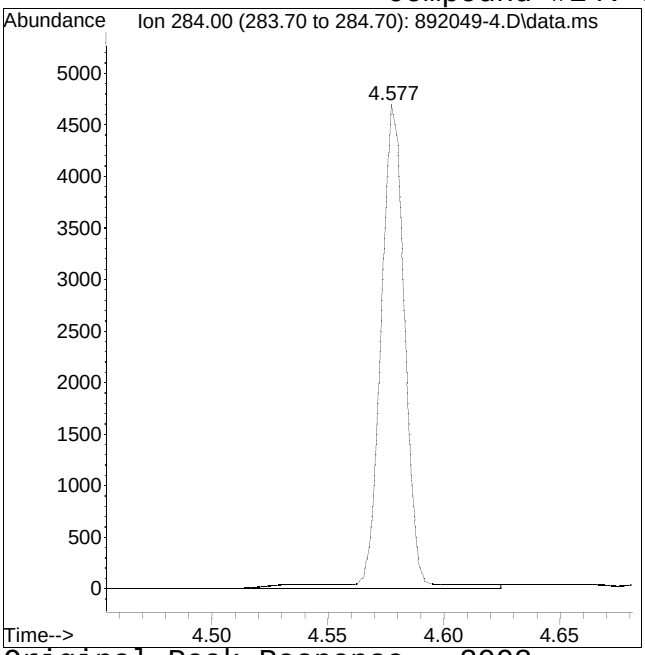


Manual Integration Report

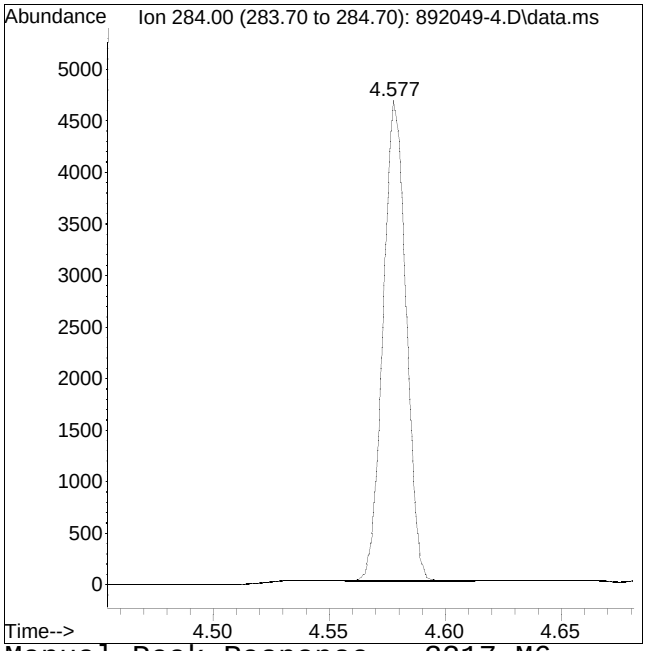
Data Path : I:\8270SIM\SV128\240305\
Data File : 892049-4.D
Date Inj'd : 3/5/2024 12:11 pm
Sample : Wg1892049-4,32,,ah

QMethod : SIM-LVI_231211_sv128.M
Operator : SV128:jjw
Instrument : SV128
Quant Date : 3/5/2024 12:26 pm

Compound #24: Hexachlorobenzene



Original Peak Response = 3993



Manual Peak Response = 3217 M6

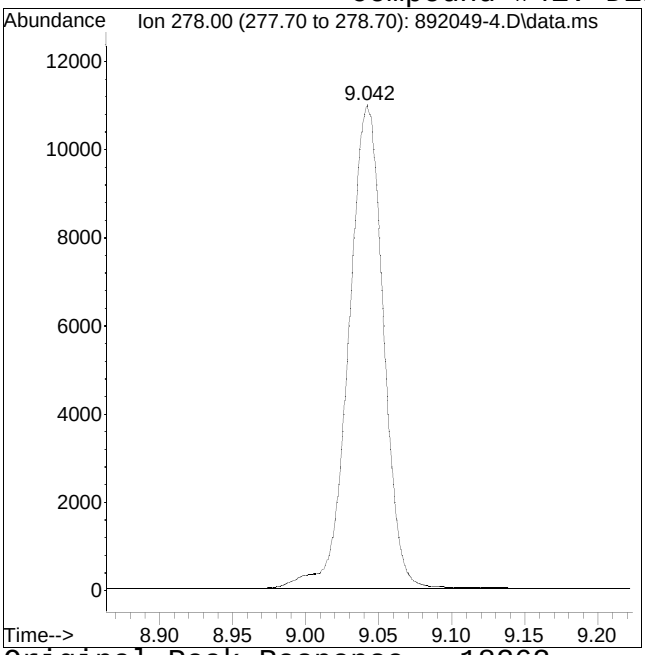
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

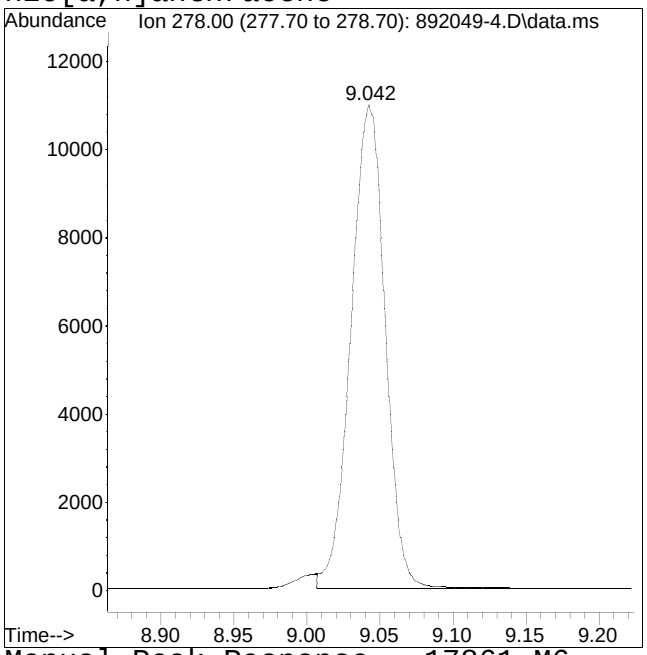
Data Path : I:\8270SIM\SV128\240305\
Data File : 892049-4.D
Date Inj'd : 3/5/2024 12:11 pm
Sample : Wg1892049-4,32,,ah

QMethod : SIM-LVI_231211_sv128.M
Operator : SV128:jjw
Instrument : SV128
Quant Date : 3/5/2024 12:26 pm

Compound #41: Dibenzo[a,h]anthracene



Original Peak Response = 18262



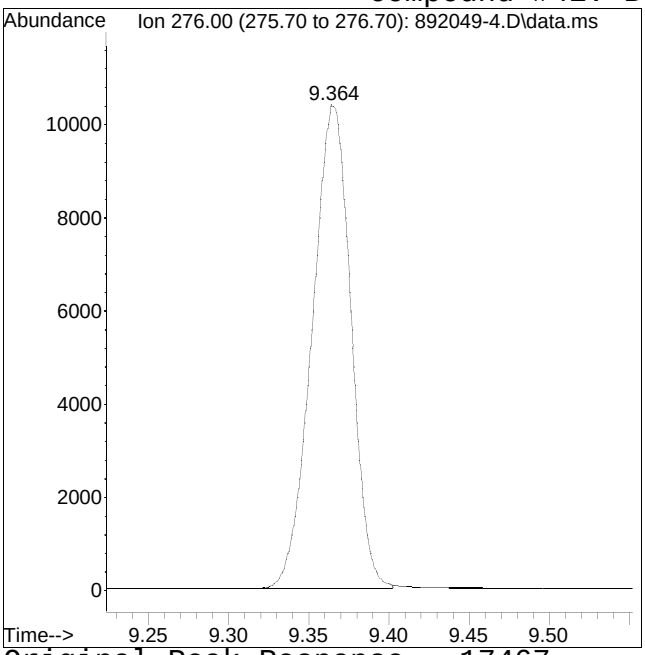
Manual Peak Response = 17861 M6

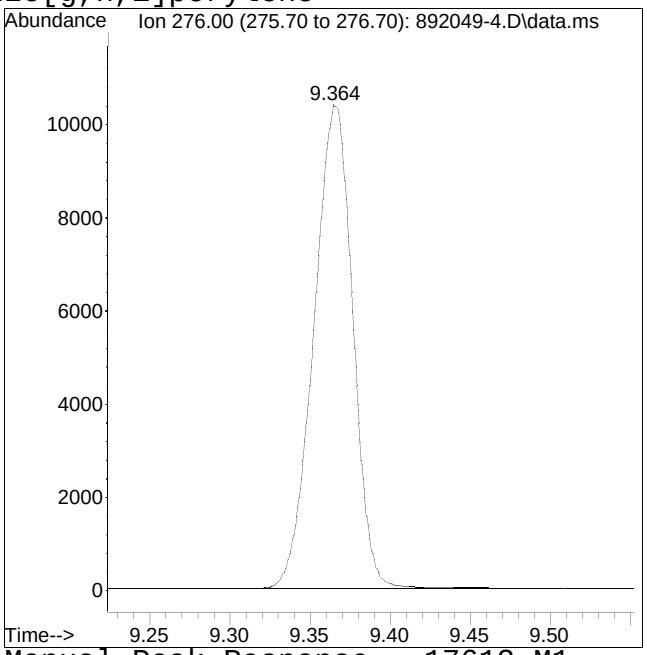
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

Data Path : I:\8270SIM\SV128\240305\ QMethod : SIM-LVI_231211_sv128.M
Data File : 892049-4.D Operator : SV128:jjw
Date Inj'd : 3/5/2024 12:11 pm Instrument : SV128
Sample : Wg1892049-4,32,,ah Quant Date : 3/5/2024 12:26 pm

Compound #42: Benzo[g,h,i]perylene





Original Peak Response = 17467 Manual Peak Response = 17612 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV128\240305\
Data File : 892049-5.D
Acq On : 05 Mar 2024 12:28 pm
Operator : SV128:jjw
Sample : Wg1892049-5,32,,ah
Misc : WG1892213,wg1892049,ical20676
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Mar 05 12:48:43 2024
Quant Method : I:\8270sim\sv128\240305\SIM-LVI_231211_sv128.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Mar 05 07:15:56 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv128\240305\ccv0305a.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.269	152	2708	4000.000	ng/ml	0.00
Standard Area 1 = 1565			Recovery = 173.04%			
8) Naphthalene-d8	2.947	136	10614	4000.000	ng/ml	0.00
Standard Area 1 = 5966			Recovery = 177.91%			
17) Acenaphthene-d10	3.940	164	6064	4000.000	ng/ml	0.00
Standard Area 1 = 4044			Recovery = 149.95%			
22) Phenanthrene-d10	4.796	188	13809	4000.000	ng/ml	0.00
Standard Area 1 = 10610			Recovery = 130.15%			
31) Chrysene-d12	6.388	240	13483	4000.000	ng/ml	0.00
Standard Area 1 = 12274			Recovery = 109.85%			
36) Perylene-d12	7.691	264	16185	4000.000	ng/ml	-0.01
Standard Area 1 = 14188			Recovery = 114.08%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.659	112	1804	2645.475	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 52.91%			
3) Phenol-d6	2.083	99	1967	2468.166	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 49.36%			
7) Nitrobenzene-d5	2.556	82	1158	1798.002	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 71.92%			
13) 2-Fluorobiphenyl	3.555	172	3440	1528.263	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 61.13%			
21) 2,4,6-Tribromophenol	4.395	330	1301	4293.339	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 85.87%			
30) 4-Terphenyl-d14	5.729	244	5358	1862.412	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 74.50%			
Target Compounds						Qvalue
6) Hexachloroethane	2.535	117	831	2569.483	ng/ml	92
9) Naphthalene	2.956	128	7496	2753.980	ng/ml#	100
10) Hexachlorobutadiene	3.029	225	1573	2522.868	ng/ml	99
11) 2-Methylnaphthalene	3.344	142	5294	3044.655	ng/ml	99
14) 2-Chloronaphthalene	3.619	162	5803	3065.603	ng/ml	93
16) Acenaphthylene	3.857	152	9012	3213.844	ng/ml	99
18) Acenaphthene	3.958	153	6282	3064.565	ng/ml	91
20) Fluorene	4.255	166	7132	3447.365	ng/ml	97
24) Hexachlorobenzene	4.577	284	2889M6	3144.072	ng/ml	
25) Pentachlorophenol	4.695	266	1640	3612.825	ng/ml	99

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV128\240305\
Data File : 892049-5.D
Acq On : 05 Mar 2024 12:28 pm
Operator : SV128:jjw
Sample : Wg1892049-5,32,,ah
Misc : WG1892213,wg1892049,ical20676
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Mar 05 12:48:43 2024
Quant Method : I:\8270sim\sv128\240305\SIM-LVI_231211_sv128.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Mar 05 07:15:56 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv128\240305\ccv0305a.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Phenanthrene	4.810	178	12040	3224.331	ng/ml	100
27) Anthracene	4.840	178	12070	3345.239	ng/ml	100
28) Fluoranthene	5.505	202	15201	3705.311	ng/ml	99
29) Pyrene	5.635	202	16134	3801.082	ng/ml	98
32) Benzo[a]anthracene	6.380	228	16698	3447.986	ng/ml	100
34) Chrysene	6.408	228	15880	3416.316	ng/ml	100
37) Benzo[b]fluoranthene	7.289	252	17152	3422.063	ng/ml	97
38) Benzo[k]fluoranthene	7.317	252	17718	3798.635	ng/ml	98
39) Benzo[a]pyrene	7.625	252	15779	3575.037	ng/ml	100
40) Indeno[1,2,3-cd]pyrene	9.004	276	18291	4144.493	ng/ml	98
41) Dibenzo[a,h]anthracene	9.045	278	17703M6	4130.046	ng/ml	
42) Benzo[g,h,i]perylene	9.364	276	17378M1	3788.298	ng/ml	

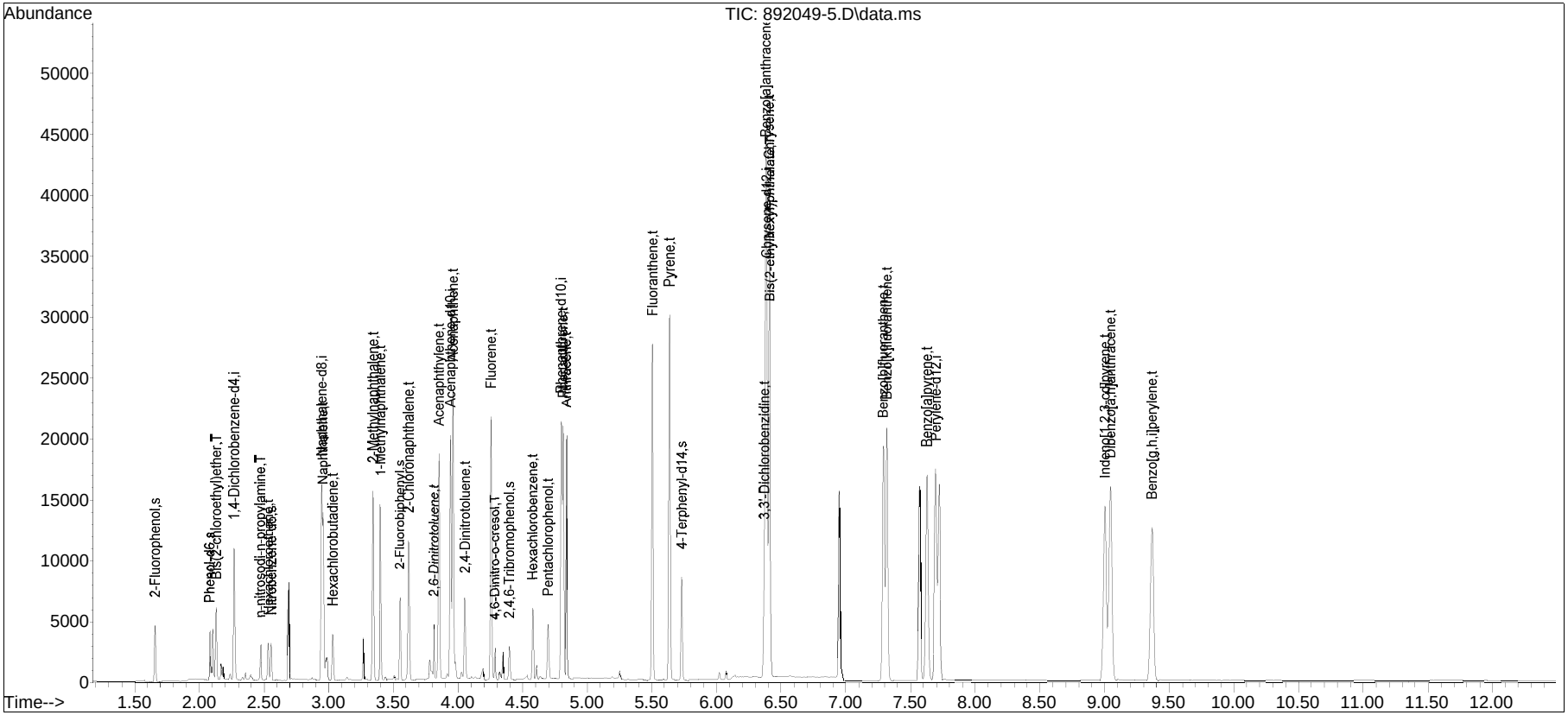
(#) = qualifier out of range (m) = manual integration (+) = signals summed

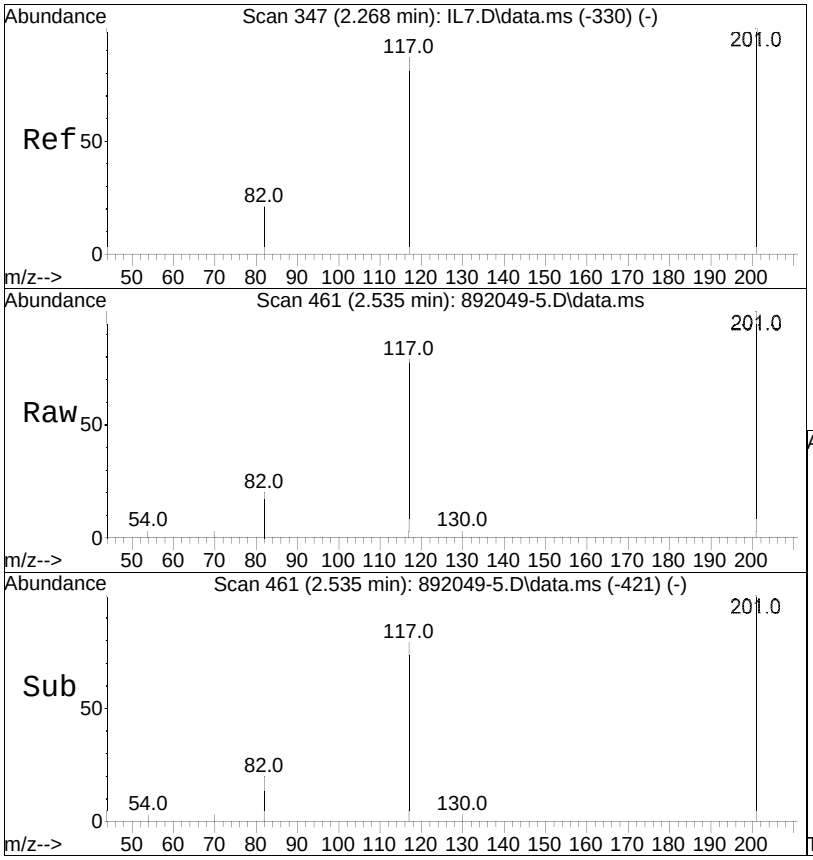
Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV128\240305\
Data File : 892049-5.D
Acq On : 05 Mar 2024 12:28 pm
Operator : SV128:jjw
Sample : Wg1892049-5,32,,ah
Misc : WG1892213,wg1892049,ical20676
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Mar 05 12:48:43 2024
Quant Method : I:\8270sim\sv128\240305\SIM-LVI_231211_sv128.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Mar 05 07:15:56 2024
Response via : Initial Calibration

Sub List : DEFAULT - All compounds listedv0305a.D•

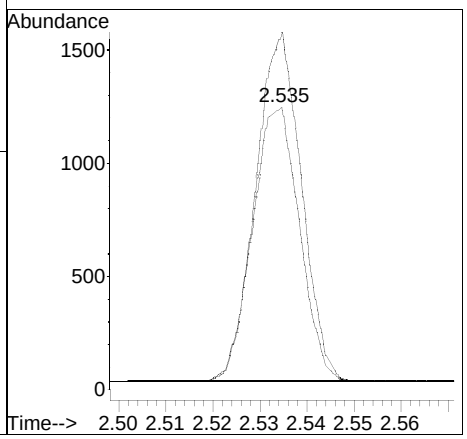


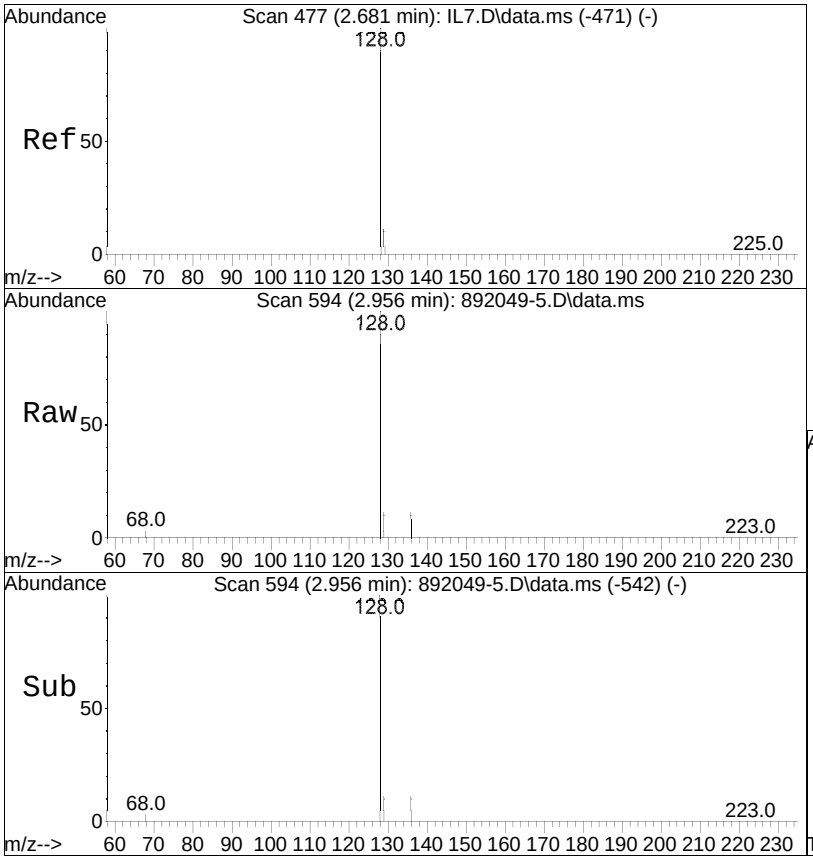


#6
Hexachloroethane
Concen: 2569.48 ng/ml
RT: 2.535 min Scan# 461
Delta R.T. 0.003 min
Lab File: 892049-5.D
Acq: 05 Mar 2024 12:28 pm

Tgt Ion:117 Resp: 831

Ion	Ratio	Lower	Upper
117	100		
201	123.8	91.8	137.6

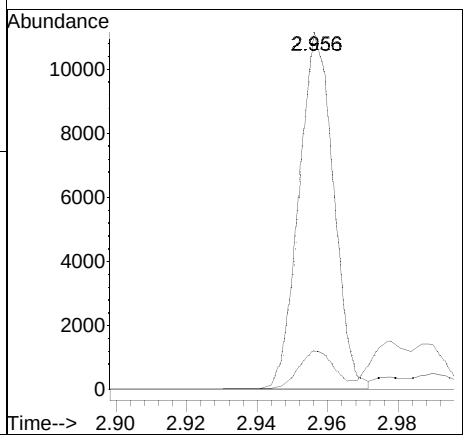


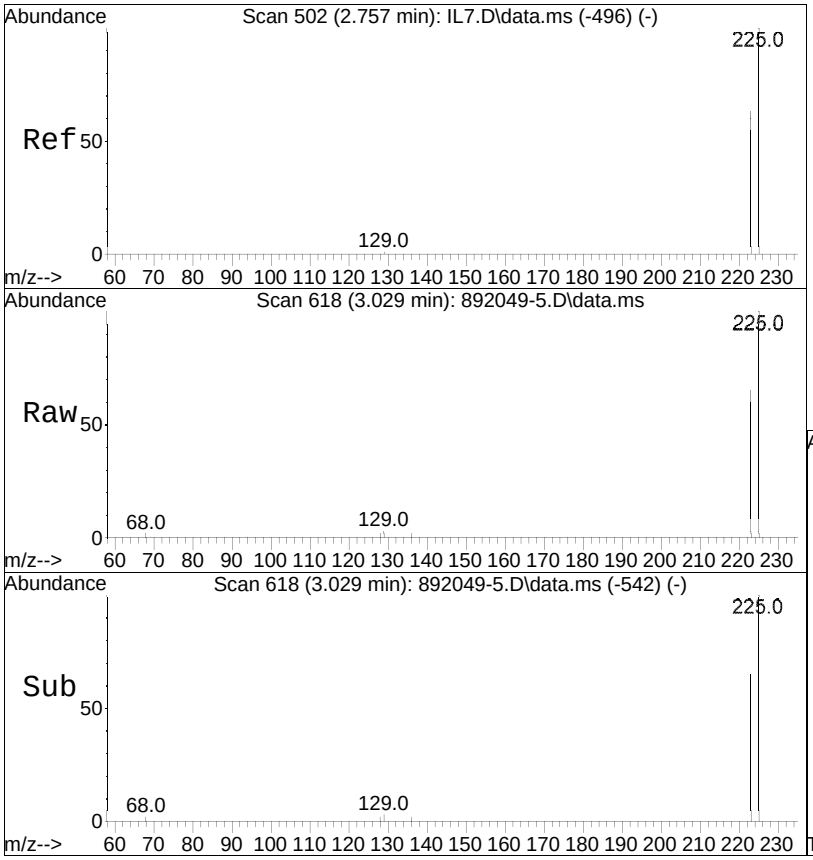


#9
Naphthalene
Concen: 2753.98 ng/ml
RT: 2.956 min Scan# 594
Delta R.T. -0.001 min
Lab File: 892049-5.D
Acq: 05 Mar 2024 12:28 pm

Tgt Ion:128 Resp: 7496

Ion	Ratio	Lower	Upper
128	100		
129	10.8	8.8	13.2
127	0.0	0.0	0.0

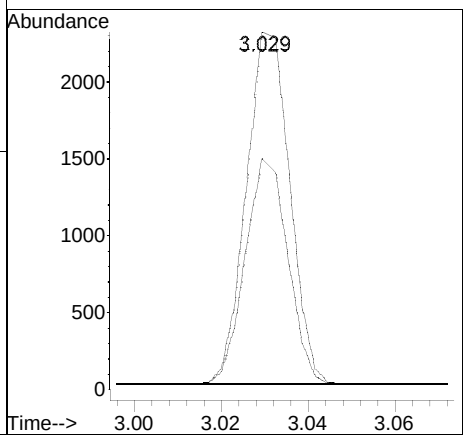


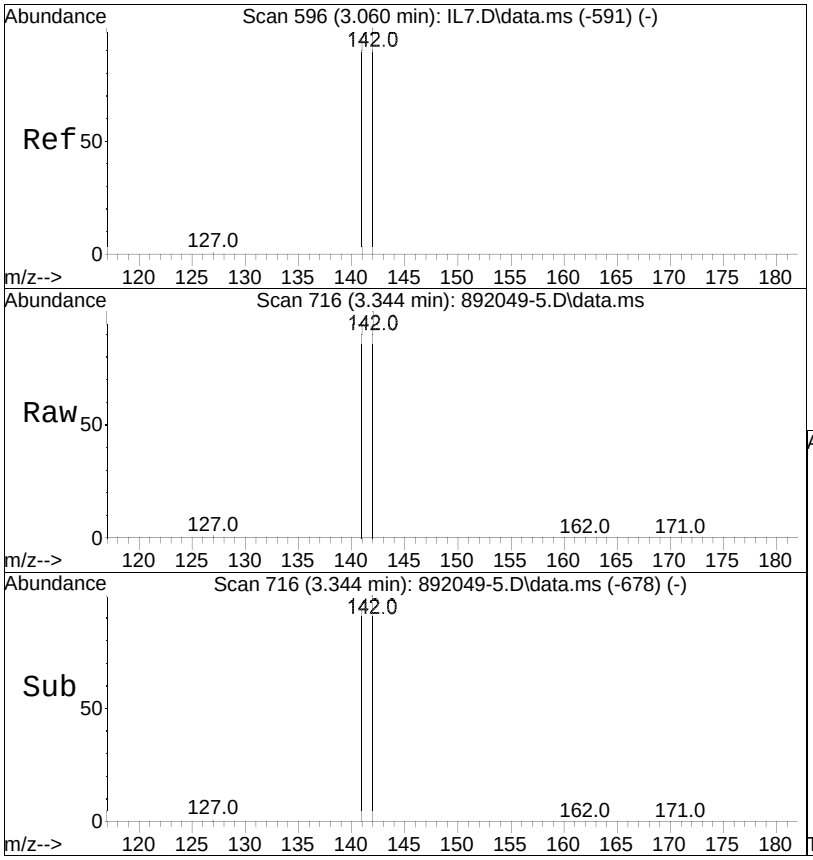


#10
Hexachlorobutadiene
Concen: 2522.87 ng/ml
RT: 3.029 min Scan# 618
Delta R.T. -0.001 min
Lab File: 892049-5.D
Acq: 05 Mar 2024 12:28 pm

Tgt Ion:225 Resp: 1573

Ion	Ratio	Lower	Upper
225	100		
223	62.8	49.9	74.9

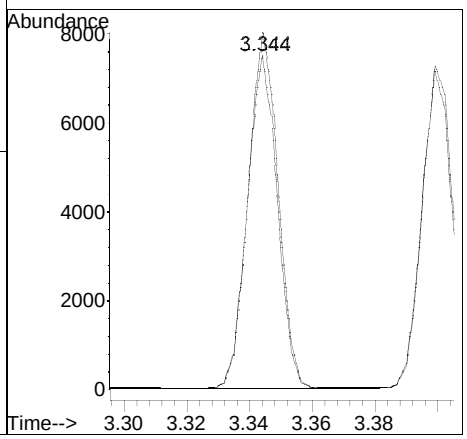


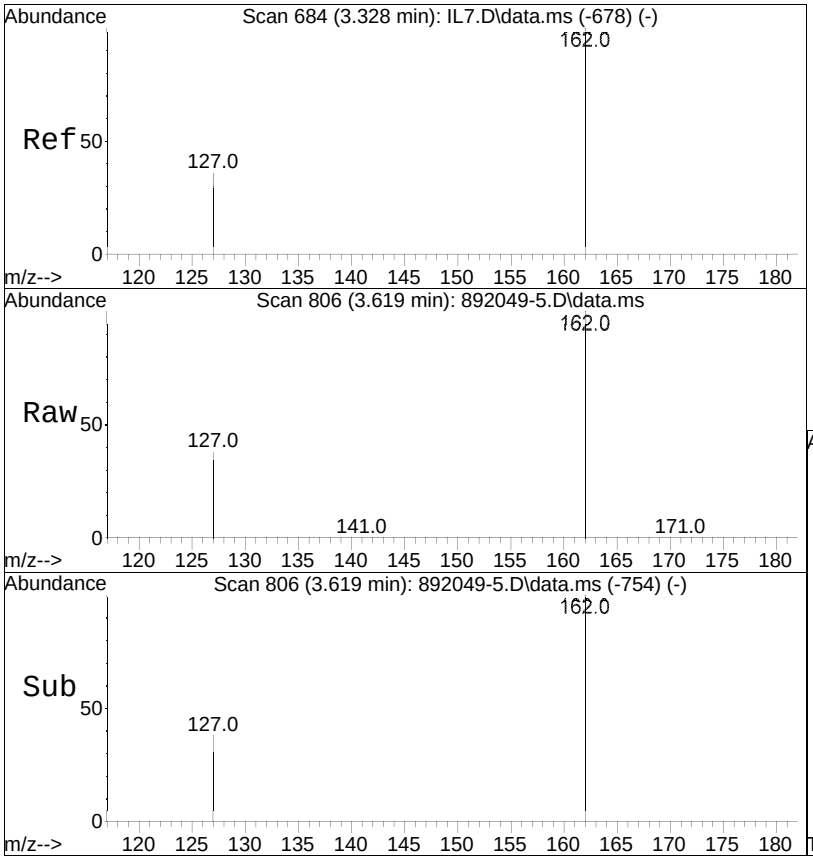


#11
2-Methylnaphthalene
Concen: 3044.66 ng/ml
RT: 3.344 min Scan# 716
Delta R.T. -0.001 min
Lab File: 892049-5.D
Acq: 05 Mar 2024 12:28 pm

Tgt Ion:142 Resp: 5294

Ion	Ratio	Lower	Upper
142	100		
141	93.6	75.9	113.9

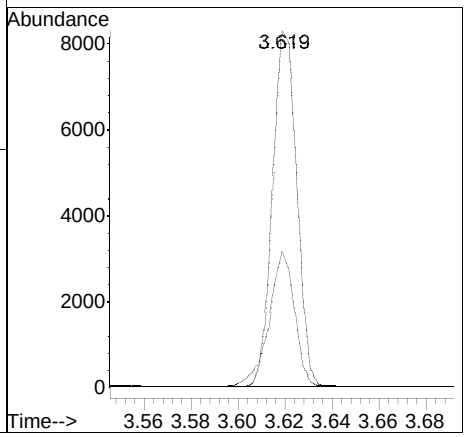


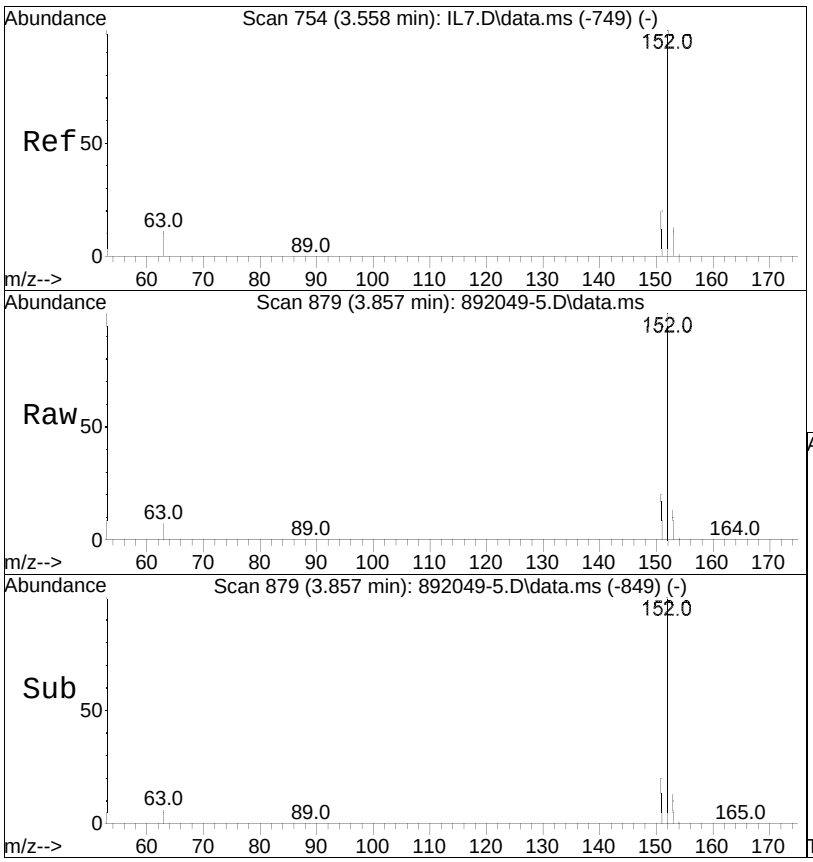


#14
2-Chloronaphthalene
Concen: 3065.60 ng/ml
RT: 3.619 min Scan# 806
Delta R.T. -0.004 min
Lab File: 892049-5.D
Acq: 05 Mar 2024 12:28 pm

Tgt Ion:162 Resp: 5803

Ion	Ratio	Lower	Upper
162	100		
127	41.0	29.3	43.9

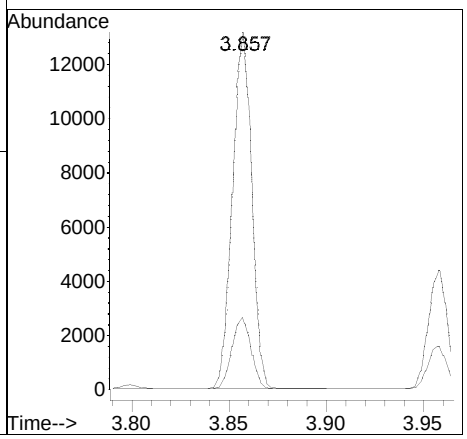


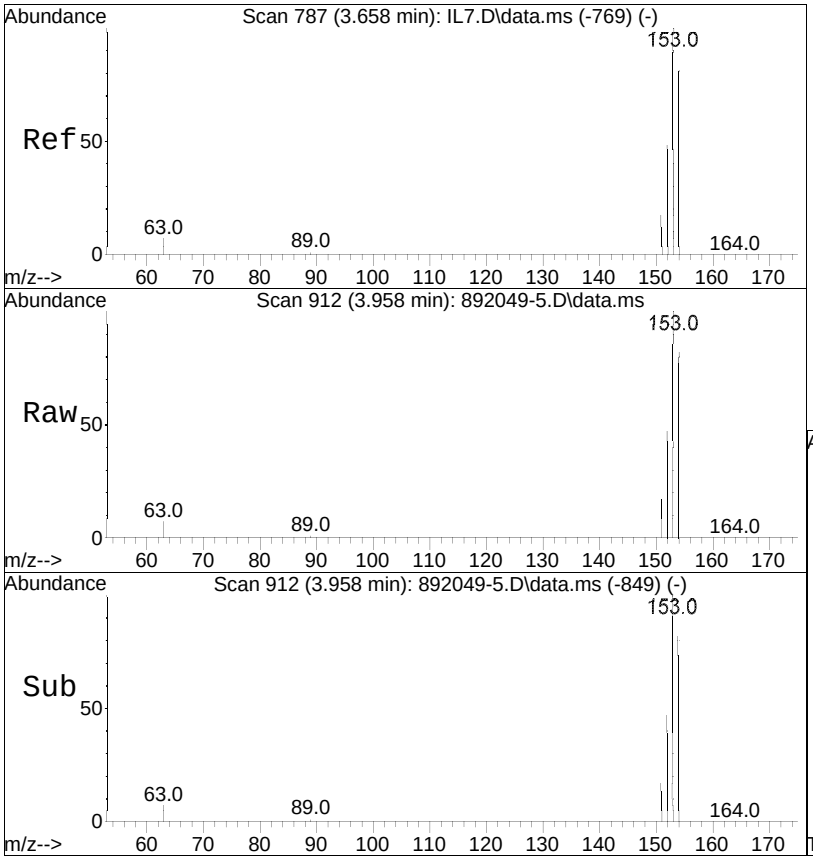


#16
Acenaphthylene
Concen: 3213.84 ng/ml
RT: 3.857 min Scan# 879
Delta R.T. -0.004 min
Lab File: 892049-5.D
Acq: 05 Mar 2024 12:28 pm

Tgt Ion:152 Resp: 9012

Ion	Ratio	Lower	Upper
152	100		
151	20.2	16.4	24.6

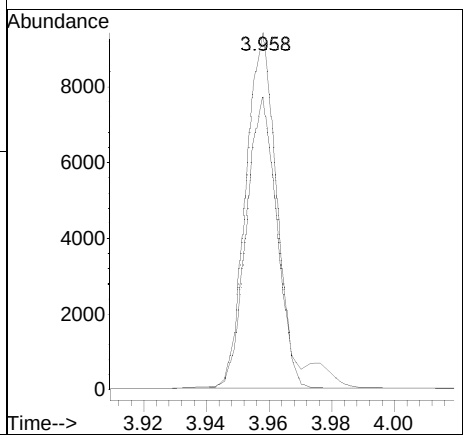


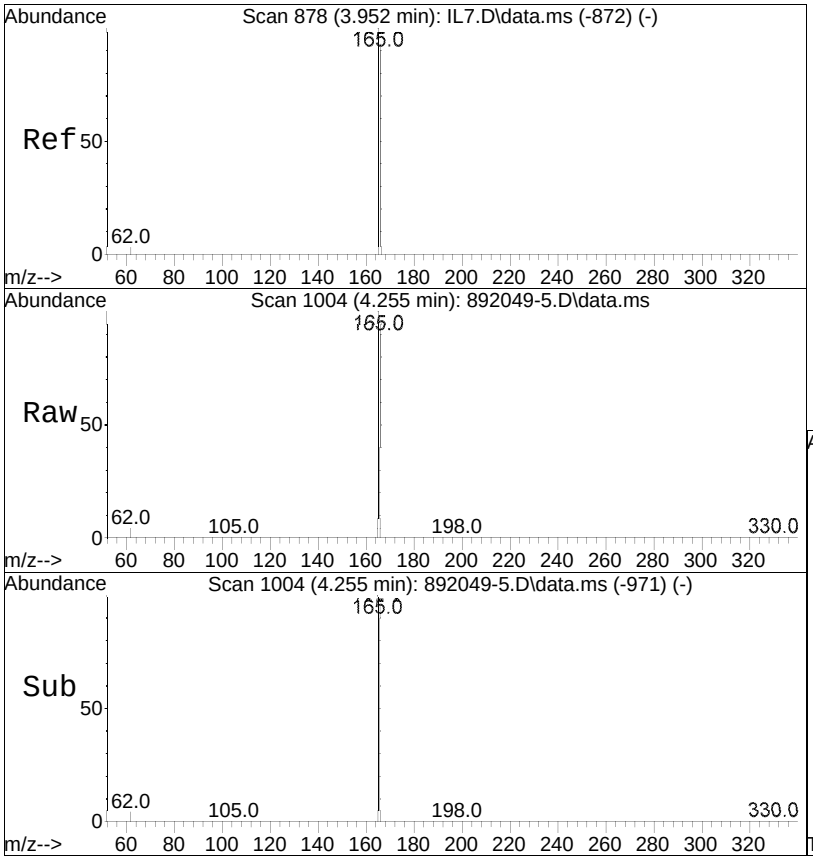


#18
Acenaphthene
Concen: 3064.57 ng/ml
RT: 3.958 min Scan# 912
Delta R.T. -0.004 min
Lab File: 892049-5.D
Acq: 05 Mar 2024 12:28 pm

Tgt Ion:153 Resp: 6282

Ion	Ratio	Lower	Upper
153	100		
154	89.9	65.8	98.6

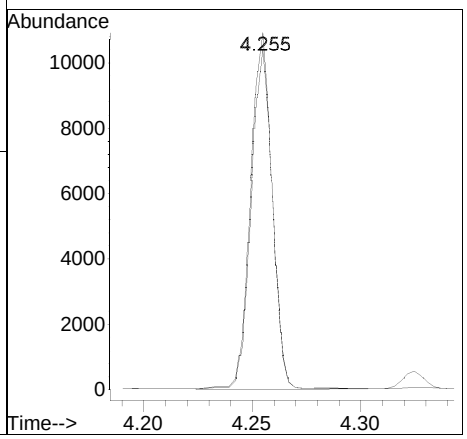


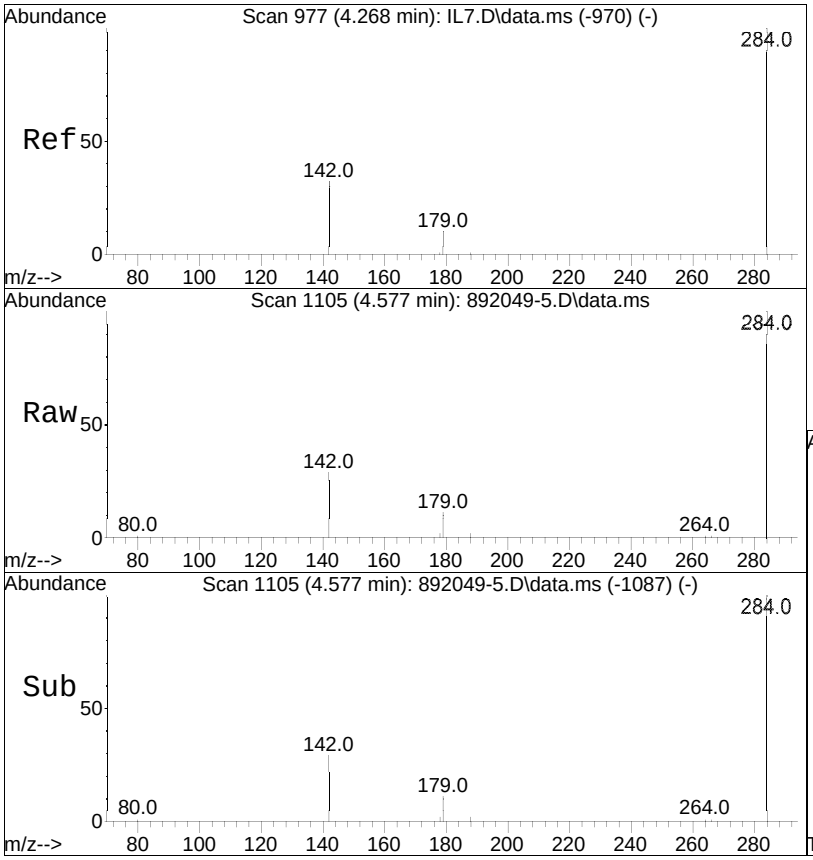


#20
Fluorene
Concen: 3447.37 ng/ml
RT: 4.255 min Scan# 1004
Delta R.T. -0.004 min
Lab File: 892049-5.D
Acq: 05 Mar 2024 12:28 pm

Tgt Ion:166 Resp: 7132

Ion	Ratio	Lower	Upper
166	100		
165	104.3	85.7	128.5

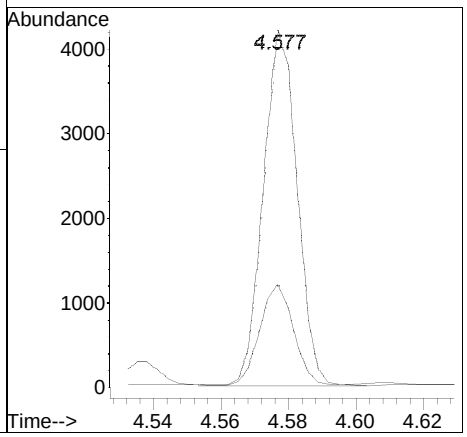


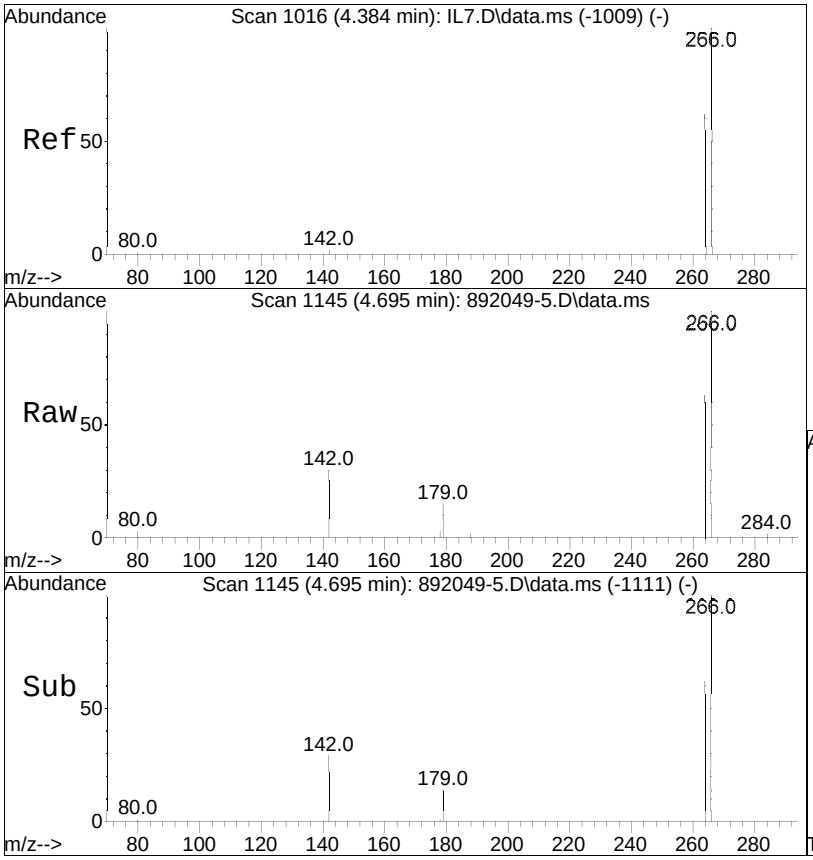


#24
Hexachlorobenzene
Concen: 3144.07 ng/ml M6
RT: 4.577 min Scan# 1105
Delta R.T. -0.006 min
Lab File: 892049-5.D
Acq: 05 Mar 2024 12:28 pm

Tgt Ion:284 Resp: 2889

Ion	Ratio	Lower	Upper
284	100		
142	29.1	23.9	35.9

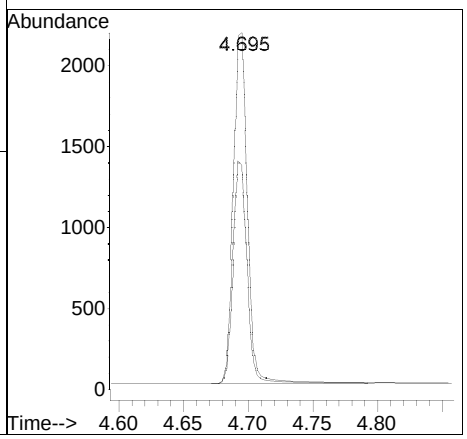


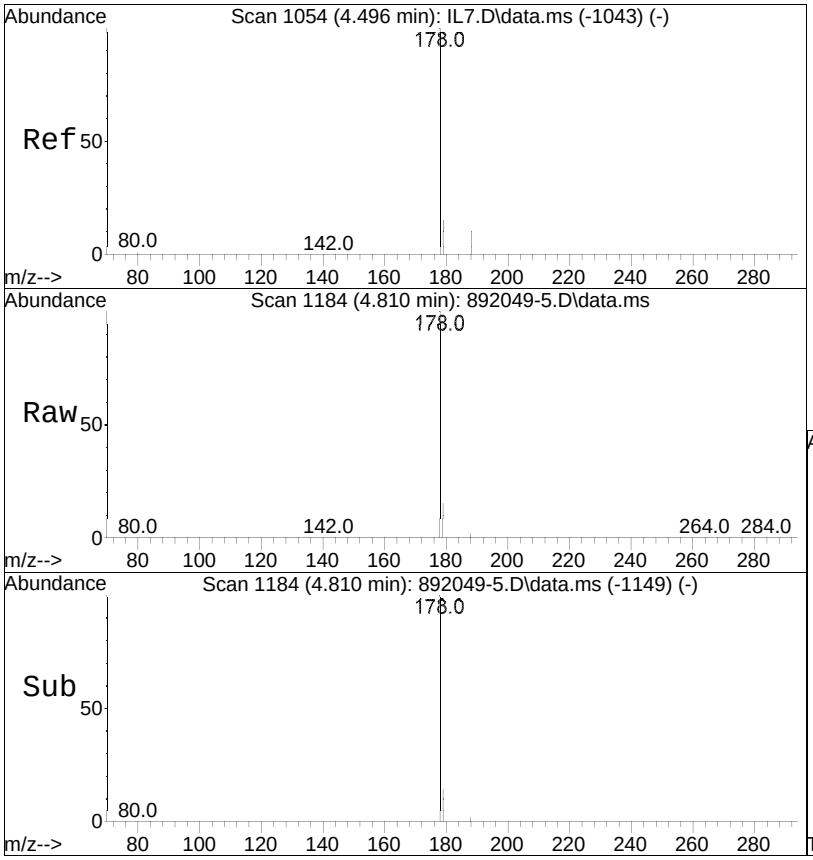


#25
Pentachlorophenol
Concen: 3612.82 ng/ml
RT: 4.695 min Scan# 1145
Delta R.T. -0.003 min
Lab File: 892049-5.D
Acq: 05 Mar 2024 12:28 pm

Tgt Ion:266 Resp: 1640

Ion	Ratio	Lower	Upper
266	100		
264	63.0	49.7	74.5

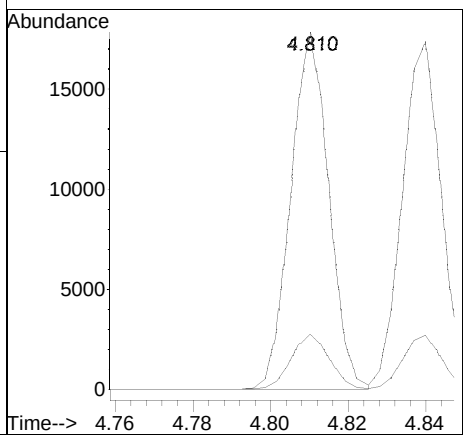


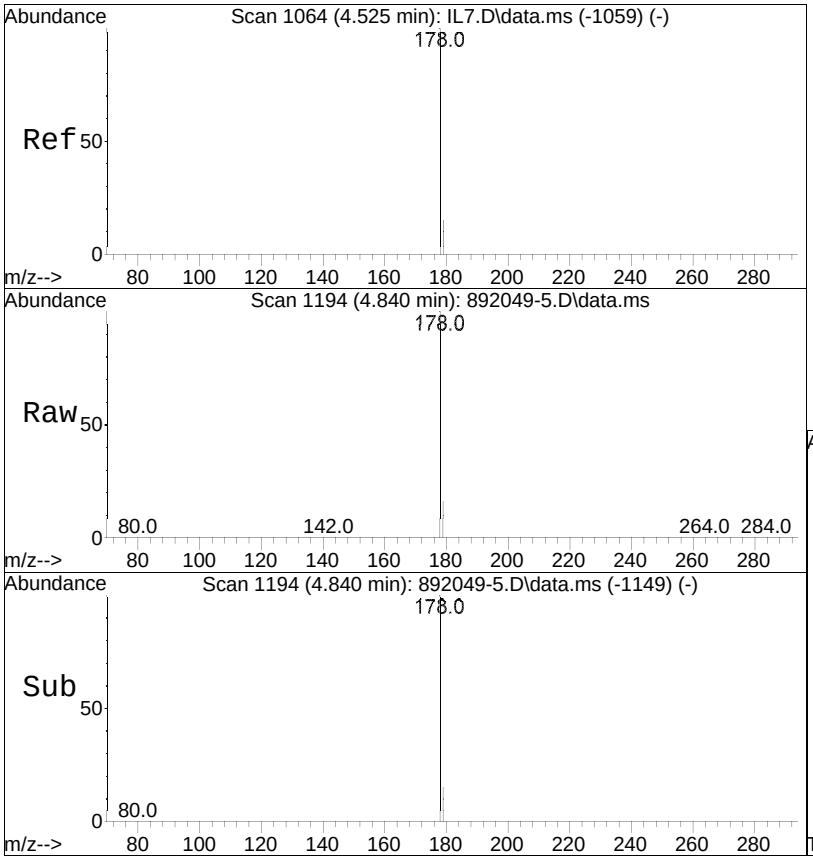


#26
Phenanthrene
Concen: 3224.33 ng/ml
RT: 4.810 min Scan# 1184
Delta R.T. -0.003 min
Lab File: 892049-5.D
Acq: 05 Mar 2024 12:28 pm

Tgt Ion:178 Resp: 12040

Ion	Ratio	Lower	Upper
178	100		
179	15.3	12.2	18.4

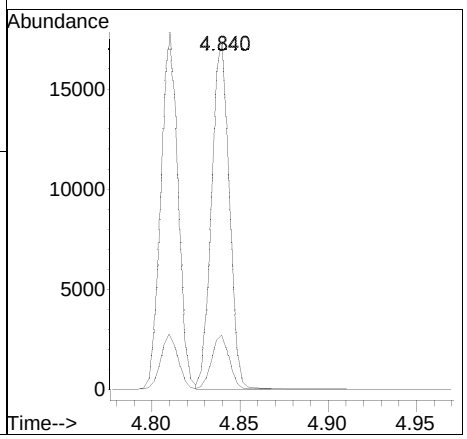


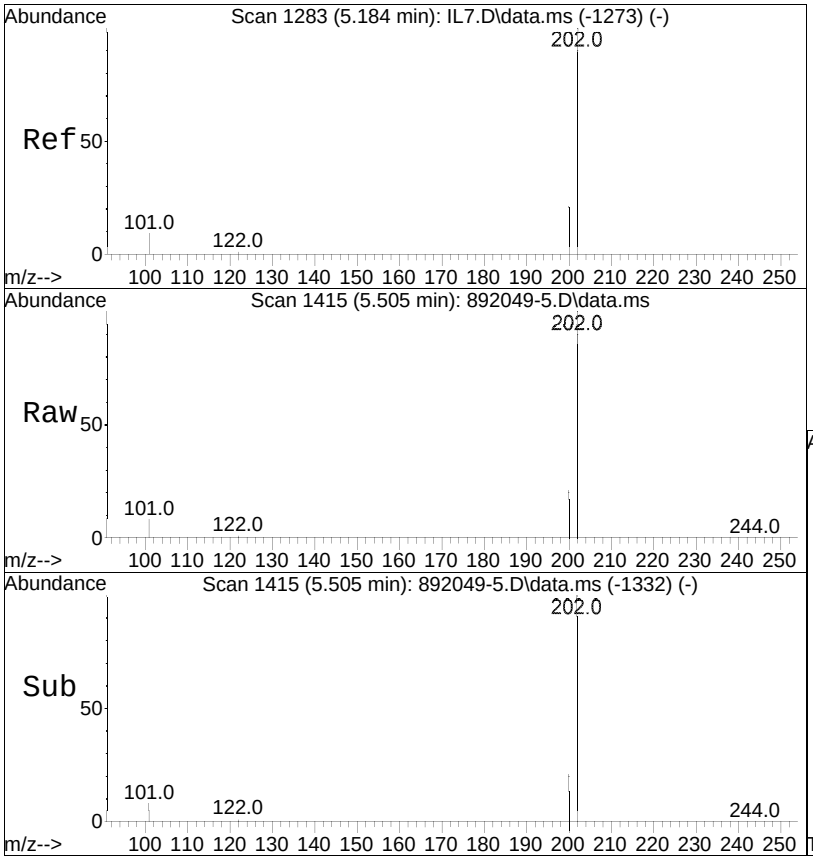


#27
Anthracene
Concen: 3345.24 ng/ml
RT: 4.840 min Scan# 1194
Delta R.T. -0.003 min
Lab File: 892049-5.D
Acq: 05 Mar 2024 12:28 pm

Tgt Ion:178 Resp: 12070

Ion	Ratio	Lower	Upper
178	100		
179	15.3	12.2	18.2

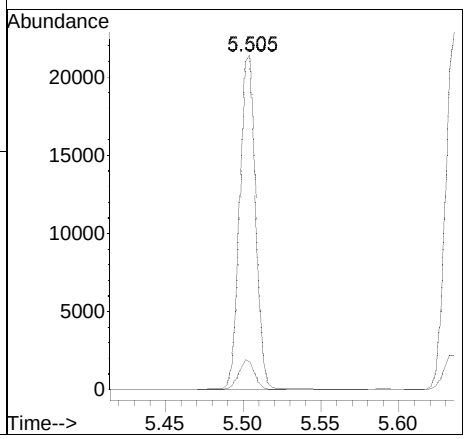


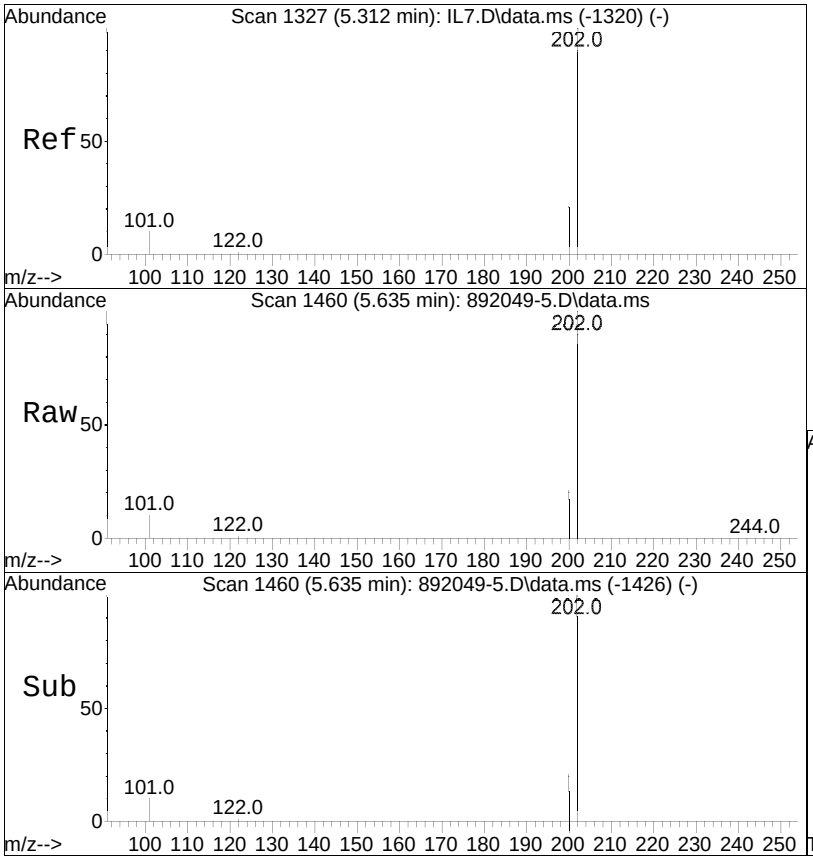


#28
Fluoranthene
Concen: 3705.31 ng/ml
RT: 5.505 min Scan# 1415
Delta R.T. -0.006 min
Lab File: 892049-5.D
Acq: 05 Mar 2024 12:28 pm

Tgt Ion:202 Resp: 15201

Ion	Ratio	Lower	Upper
202	100		
101	8.5	7.2	10.8

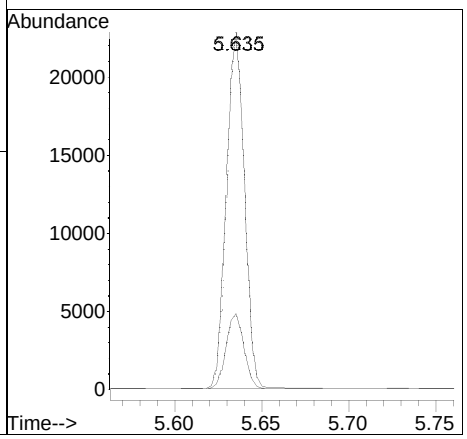


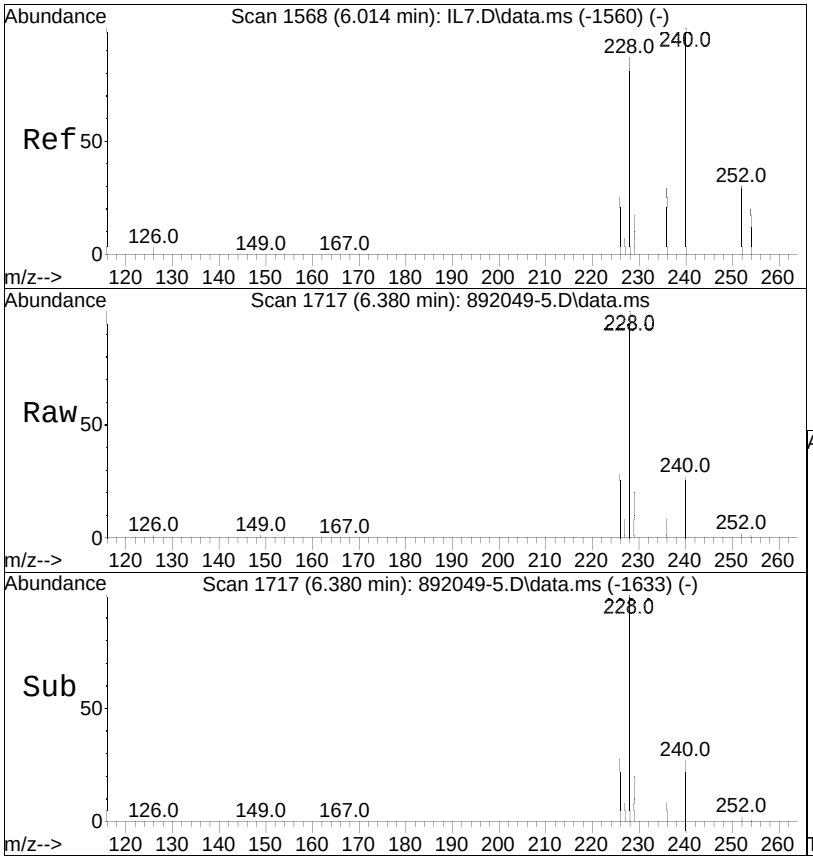


#29
Pyrene
Concen: 3801.08 ng/ml
RT: 5.635 min Scan# 1460
Delta R.T. -0.006 min
Lab File: 892049-5.D
Acq: 05 Mar 2024 12:28 pm

Tgt Ion:202 Resp: 16134

Ion	Ratio	Lower	Upper
202	100		
200	21.2	17.7	26.5

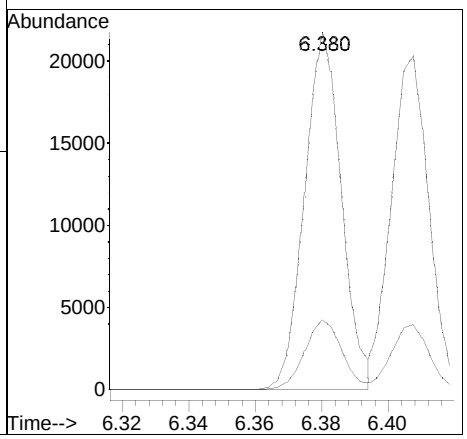


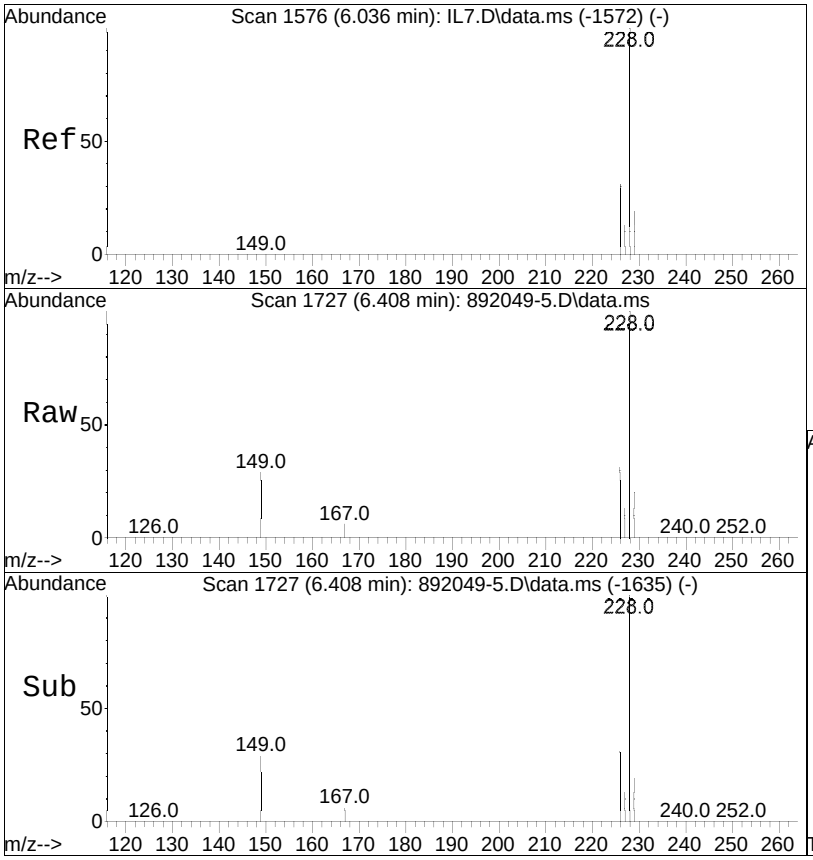


#32
Benzo[a]anthracene
Concen: 3447.99 ng/ml
RT: 6.380 min Scan# 1717
Delta R.T. -0.008 min
Lab File: 892049-5.D
Acq: 05 Mar 2024 12:28 pm

Tgt Ion:228 Resp: 16698

Ion	Ratio	Lower	Upper
228	100		
229	19.6	15.7	23.5

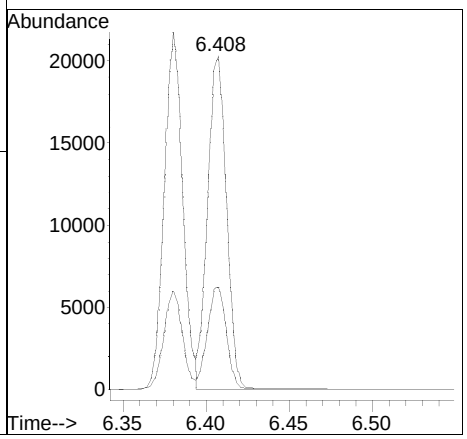


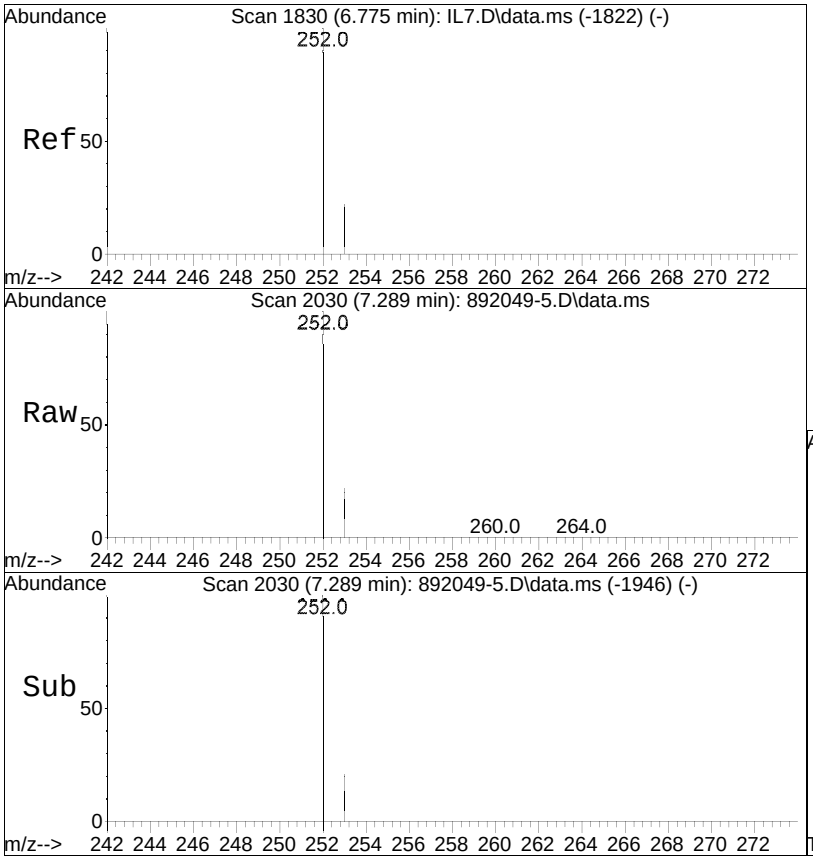


#34
Chrysene
Concen: 3416.32 ng/ml
RT: 6.408 min Scan# 1727
Delta R.T. -0.008 min
Lab File: 892049-5.D
Acq: 05 Mar 2024 12:28 pm

Tgt Ion:228 Resp: 15880

Ion	Ratio	Lower	Upper
228	100		
226	30.8	24.6	36.8

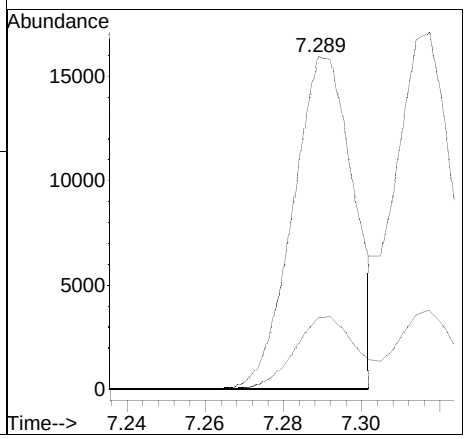


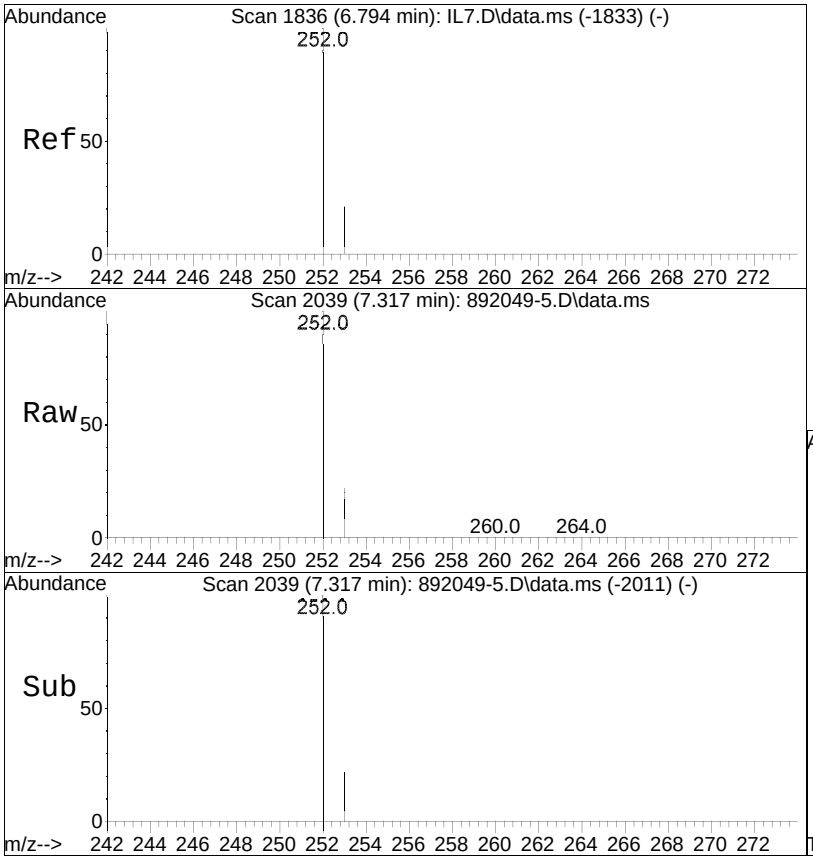


#37
Benzo[b]fluoranthene
Concen: 3422.06 ng/ml
RT: 7.289 min Scan# 2030
Delta R.T. -0.015 min
Lab File: 892049-5.D
Acq: 05 Mar 2024 12:28 pm

Tgt Ion:252 Resp: 17152

Ion	Ratio	Lower	Upper
252	100		
253	22.9	17.1	25.7

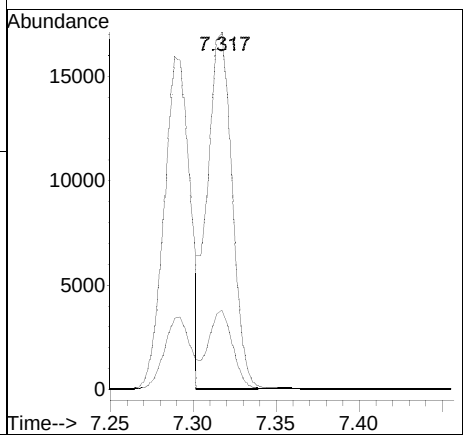


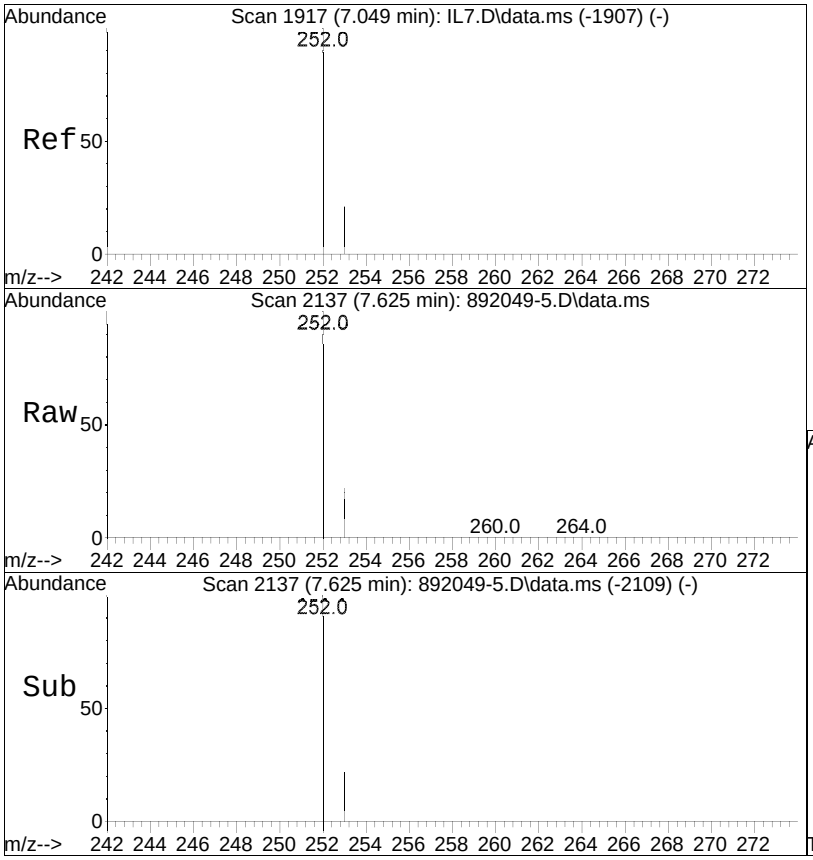


#38
Benzo[k]fluoranthene
Concen: 3798.63 ng/ml
RT: 7.317 min Scan# 2039
Delta R.T. -0.012 min
Lab File: 892049-5.D
Acq: 05 Mar 2024 12:28 pm

Tgt Ion:252 Resp: 17718

Ion	Ratio	Lower	Upper
252	100		
253	20.5	17.3	25.9

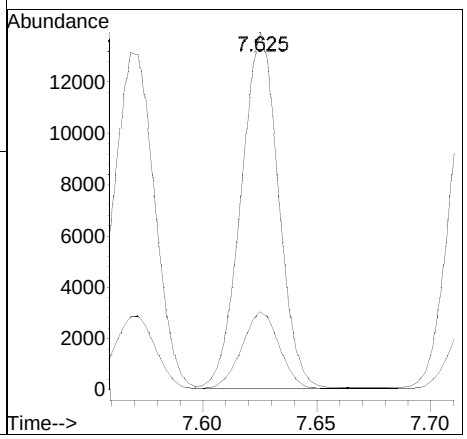


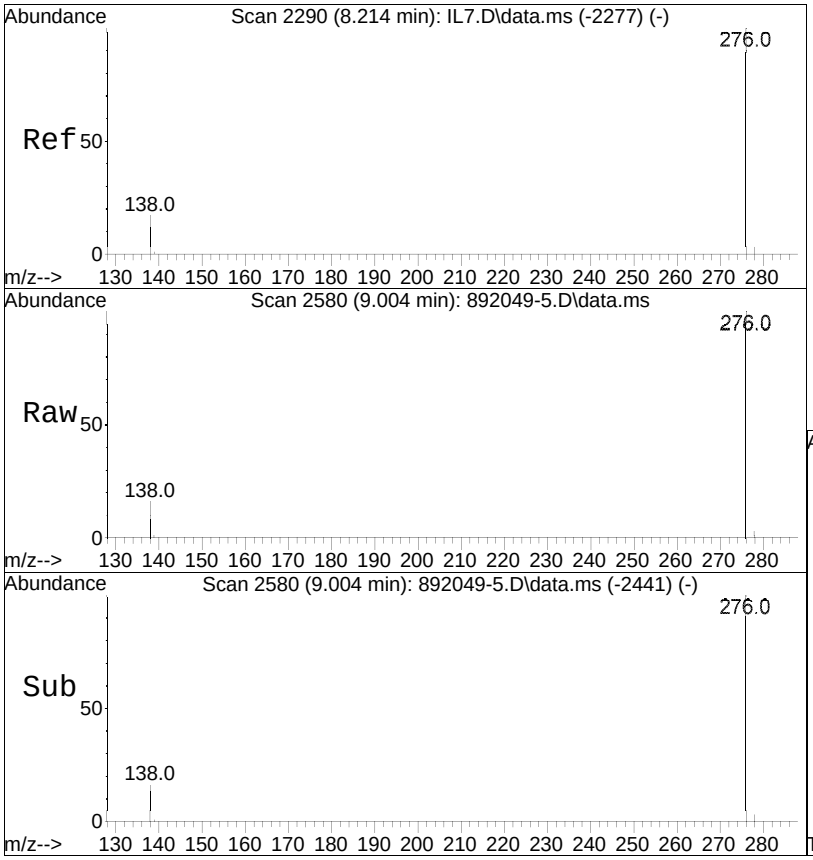


#39
Benzo[a]pyrene
Concen: 3575.04 ng/ml
RT: 7.625 min Scan# 2137
Delta R.T. -0.012 min
Lab File: 892049-5.D
Acq: 05 Mar 2024 12:28 pm

Tgt Ion:252 Resp: 15779

Ion	Ratio	Lower	Upper
252	100		
253	21.6	17.3	25.9

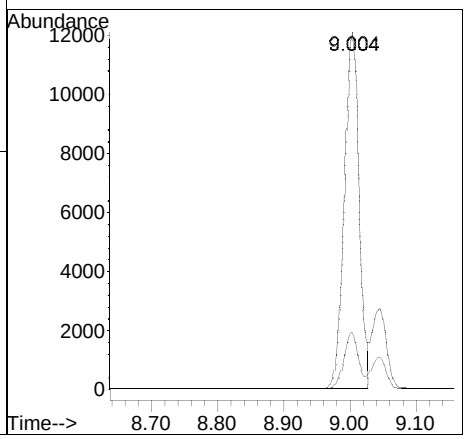


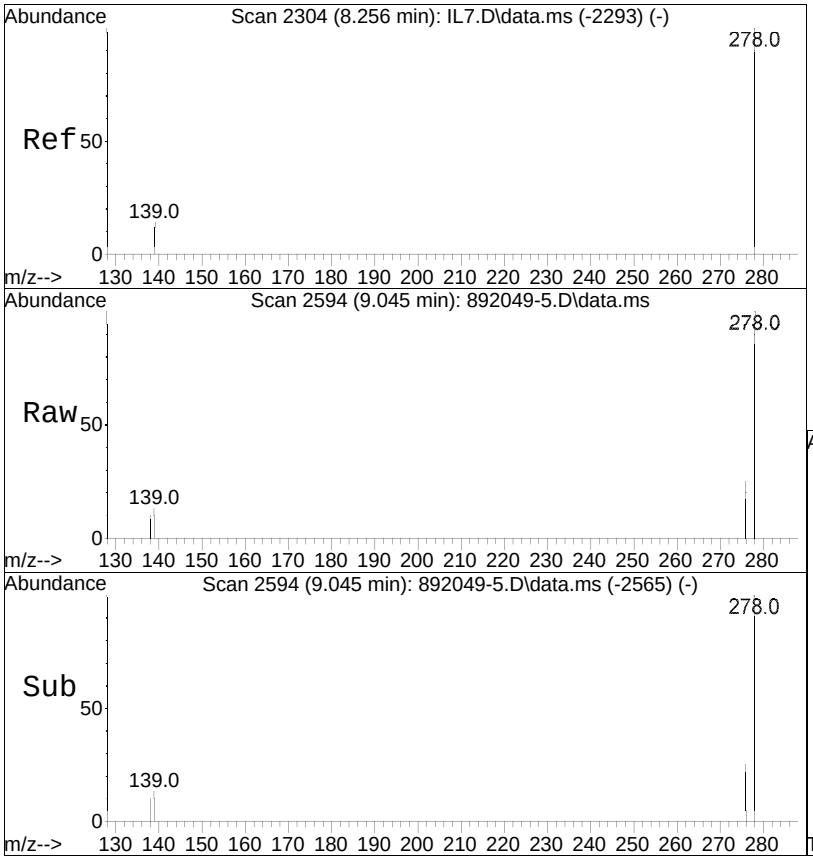


#40
Indeno[1,2,3-cd]pyrene
Concen: 4144.49 ng/ml
RT: 9.004 min Scan# 2580
Delta R.T. -0.017 min
Lab File: 892049-5.D
Acq: 05 Mar 2024 12:28 pm

Tgt Ion:276 Resp: 18291

Ion	Ratio	Lower	Upper
276	100		
138	15.8	13.4	20.2

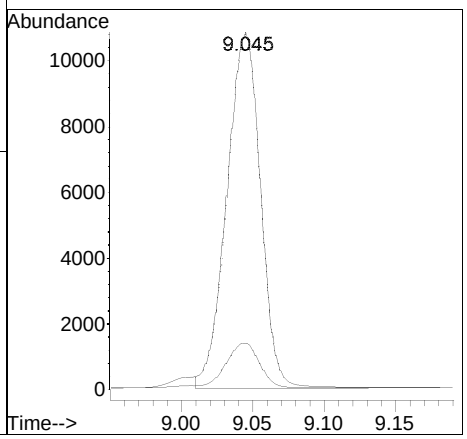


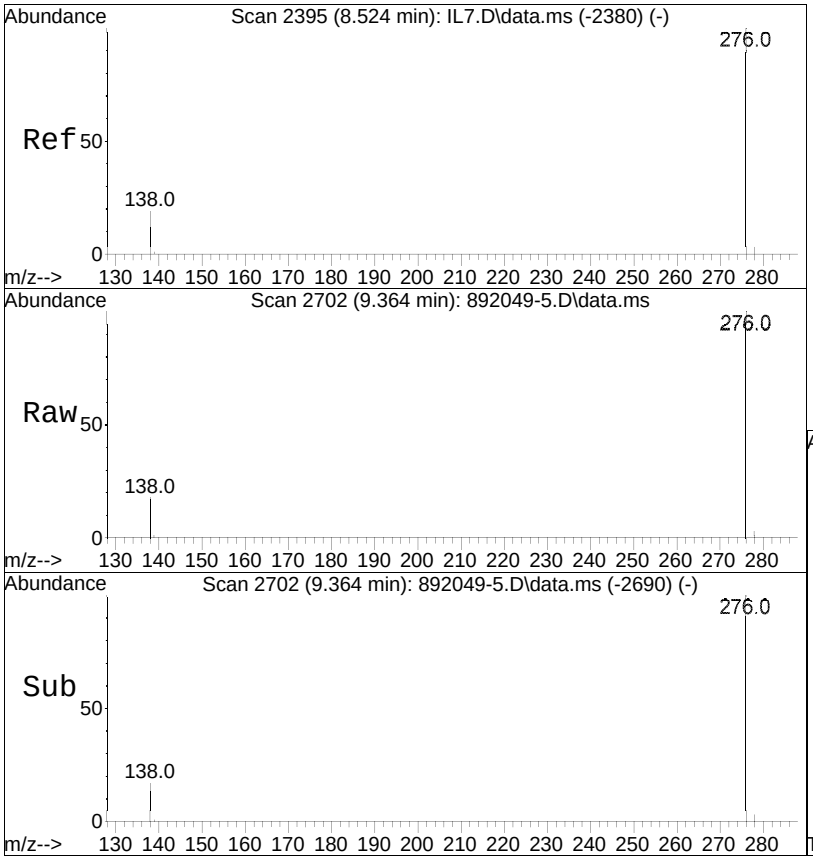


#41
Dibenzo[a,h]anthracene
Concen: 4130.05 ng/ml M6
RT: 9.045 min Scan# 2594
Delta R.T. -0.014 min
Lab File: 892049-5.D
Acq: 05 Mar 2024 12:28 pm

Tgt Ion:278 Resp: 17703

Ion	Ratio	Lower	Upper
278	100		
139	13.1	10.9	16.3

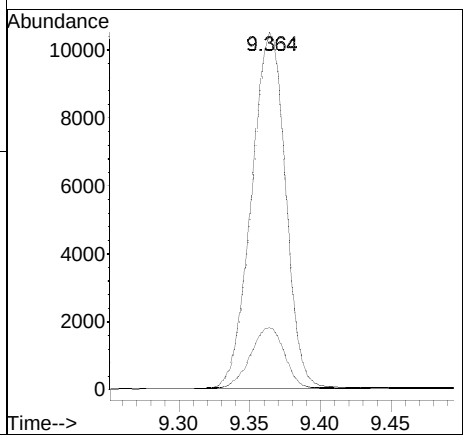




#42
Benzo[g,h,i]perylene
Concen: 3788.30 ng/ml M1
RT: 9.364 min Scan# 2702
Delta R.T. -0.014 min
Lab File: 892049-5.D
Acq: 05 Mar 2024 12:28 pm

Tgt Ion:276 Resp: 17378

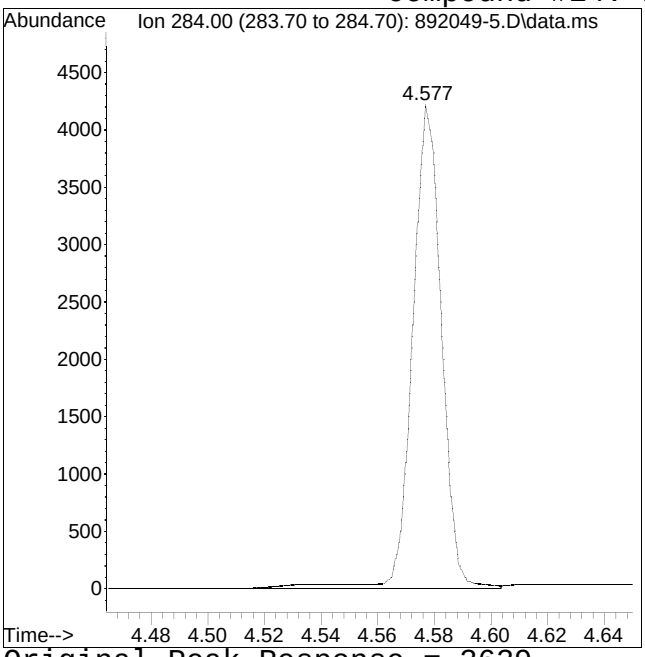
Ion	Ratio	Lower	Upper
276	100		
138	17.2	14.8	22.2



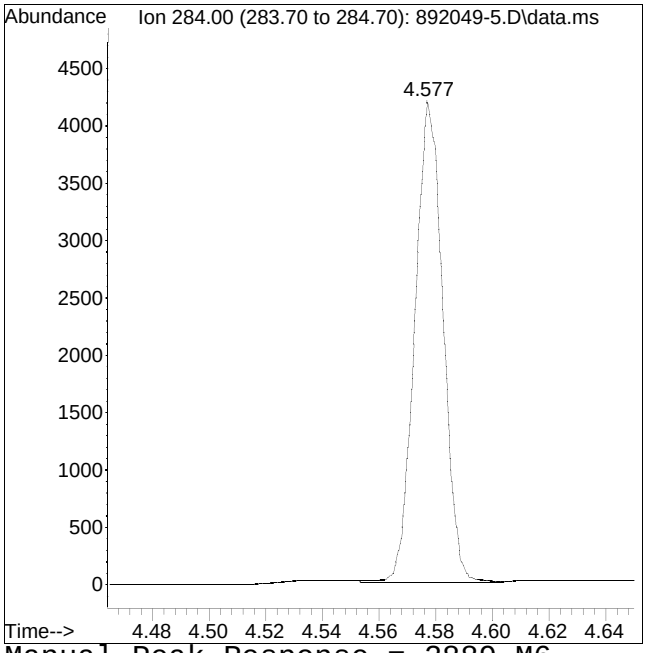
Manual Integration Report

Data Path	: I:\8270SIM\SV128\240305\	QMethod	: SIM-LVI_231211_sv128.M
Data File	: 892049-5.D	Operator	: SV128:jjw
Date Inj'd	: 3/5/2024 12:28 pm	Instrument	: SV128
Sample	: Wg1892049-5,32,,ah	Quant Date	: 3/5/2024 12:43 pm

Compound #24: Hexachlorobenzene



Original Peak Response = 3639



Manual Peak Response = 2889 M6

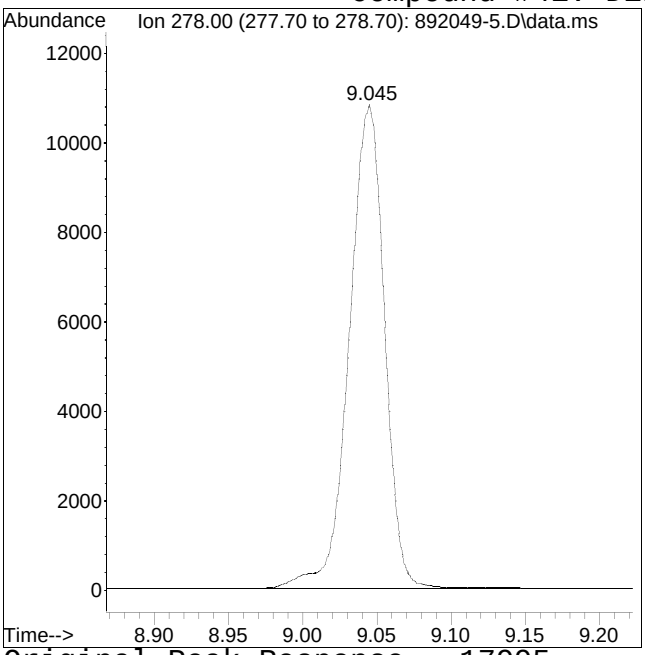
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

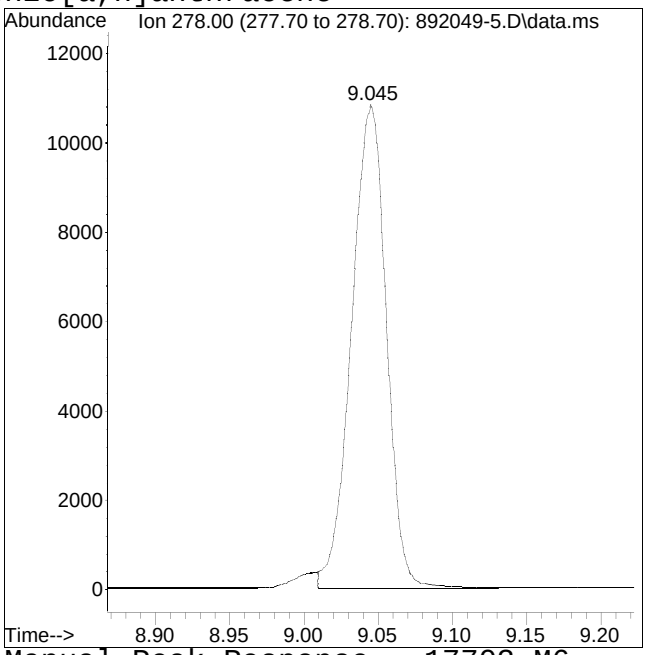
Data Path : I:\8270SIM\SV128\240305\
Data File : 892049-5.D
Date Inj'd : 3/5/2024 12:28 pm
Sample : Wg1892049-5,32,,ah

QMethod : SIM-LVI_231211_sv128.M
Operator : SV128:jjw
Instrument : SV128
Quant Date : 3/5/2024 12:43 pm

Compound #41: Dibenzo[a,h]anthracene



Original Peak Response = 17995



Manual Peak Response = 17703 M6

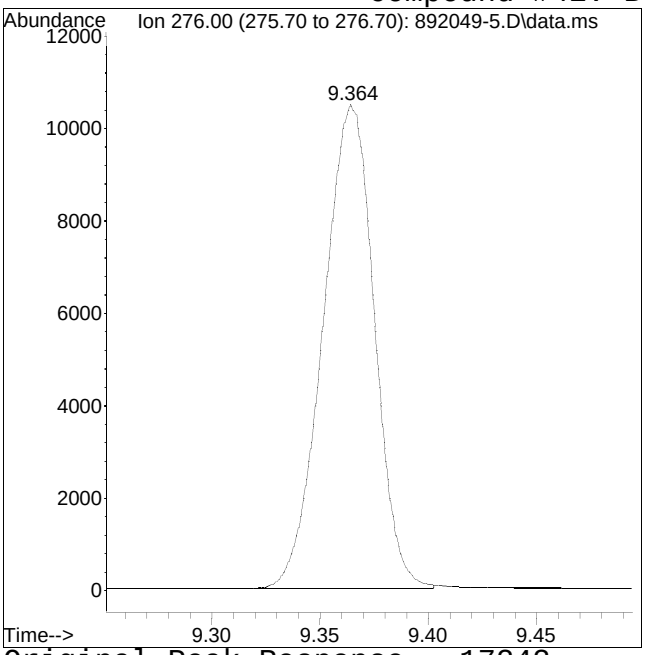
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

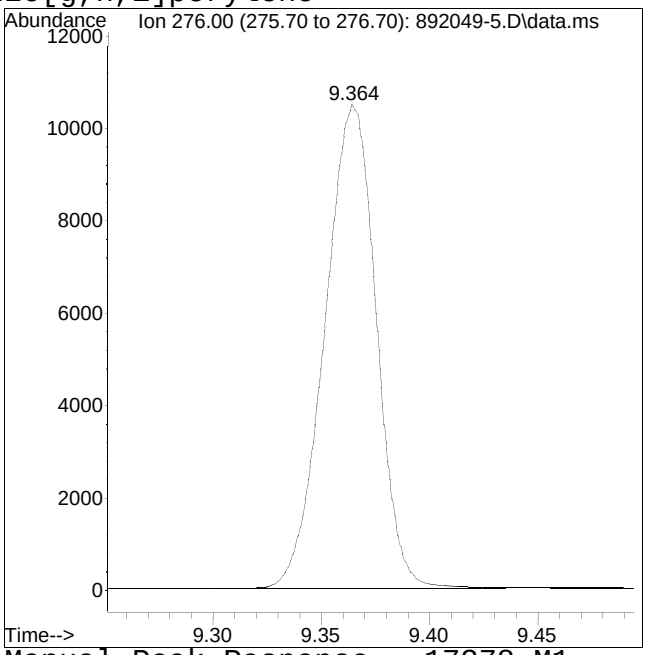
Manual Integration Report

Data Path : I:\8270SIM\SV128\240305\
Data File : 892049-5.D
Date Inj'd : 3/5/2024 12:28 pm
Sample : Wg1892049-5,32,,ah

QMethod : SIM-LVI_231211_sv128.M
Operator : SV128:jjw
Instrument : SV128
Quant Date : 3/5/2024 12:43 pm

Compound #42: Benzo[g,h,i]perylene





Original Peak Response = 17242 Manual Peak Response = 17378 M1

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

Calculation of Semi Volatile Organic Compounds

Aqueous Concentration Formula: Amt * DF * 1000 * (1/Vo) * Vf

Where:
DF = Dilution Factor
Vo = Volume of Sample (mL)
Vf = Extraction Lab Final Volume (mL)

Soil Concentration Formula: Amt * DF * 1000 * (1/Wt) * Vf * (100/TS)
Where:
DF = Dilution Factor
Wt = Weight of Sample (g)
Vf = Extraction Lab Final Volume (mL)
TS = Total Solids

ALPHA ANALYTICAL LABORATORIES, INC.

Alpha WORK GROUP REPORT (wk02)

Nov 04 2024, 10:10 am

Work Group: WG1891420 for Department: 2 Organic Preparation

Created: 02-MAR-24 Due: Operator: RET

Sample	Client ID	C	Product	Matrix	Stat	UA	HOLD	DUE	PR	Location
L2410285-02	MW-3	C	NYTCL-8270-SIM-LVI	WATER	DONE	U	0303	0304	S0	Amber-A.25
L2410285-03	MW-4	C	NYTCL-8270-SIM-LVI	WATER	DONE	U	0303	0304	S0	Amber-A.25
L2410285-04	MW-6	C	NYTCL-8270-SIM-LVI	WATER	DONE	U	0303	0304	S0	Amber-A.25
L2410285-05	MW-7	C	NYTCL-8270-SIM-LVI	WATER	DONE	U	0303	0304	S0	Amber-A.25
L2410285-06	MW-8	C	NYTCL-8270-SIM-LVI	WATER	DONE	U	0303	0304	S0	Amber-A.25
L2410285-07	MW-9	C	NYTCL-8270-SIM-LVI	WATER	DONE	U	0303	0304	S0	Amber-A.25
L2410285-08	MW-10	C	NYTCL-8270-SIM-LVI	WATER	DONE	U	0303	0304	S0	Amber-A.25
L2410285-09	MW-11	C	NYTCL-8270-SIM-LVI	WATER	DONE	U	0303	0304	S0	Amber-A.25
L2410579-07	MW-7S	C	NYTCL-8270-SIM-LVI	WATER	DONE	U	0304	0305	S0	Amber-A.25
WG1891420-1	Laboratory Method Bl	S	NYTCL-8270-SIM-LVI	WATER	DONE	U				
WG1891420-2	Laboratory Control S	S	NYTCL-8270-SIM-LVI	WATER	DONE	U				
WG1891420-3	LCS Duplicate	S	NYTCL-8270-SIM-LVI	WATER	DONE	U				

Comments:

WG1891420-3 WG1891420-2

ALPHA ANALYTICAL LABORATORIES, INC.

Alpha WORK GROUP REPORT (wk02)

Nov 04 2024, 10:10 am

Work Group: WG1892049 for Department: 2 Organic Preparation

Created: 04-MAR-24 Due: Operator: LJO

Sample	Client ID	C	Product	Matrix	Stat	UA	HOLD	DUE	PR	Location
L2410516-04	BM-1-EQB-MACRO 0227	C	NYTCL-8270-SIM-LVI	WATER	DONE	U	0305	0318	S0	Amber-A.25
L2410579-01	MW-1S	C	NYTCL-8270-SIM-LVI	WATER	DONE	U	0304	0305	S0	Amber-A.25
L2410579-02	MW-2S	C	NYTCL-8270-SIM-LVI	WATER	DONE	U	0304	0305	S0	Amber-A.25
L2410579-03	MW-3S	C	NYTCL-8270-SIM-LVI	WATER	DONE	U	0304	0305	S0	Amber-A.25
L2410579-06	MW-6D	C	NYTCL-8270-SIM-LVI	WATER	DONE	U	0304	0305	S0	Amber-A.25
L2410579-08	MW-8S	C	NYTCL-8270-SIM-LVI	WATER	DONE	U	0305	0305	S0	Amber-A.25
L2410579-09	DUP	C	NYTCL-8270-SIM-LVI	WATER	DONE	U	0304	0305	S0	Amber-A.25
L2410579-10	EB	C	NYTCL-8270-SIM-LVI	WATER	DONE	U	0305	0305	S0	Amber-A.25
L2410677-03	FIELD BLANK	C	NYTCL-8270-SIM-LVI	WATER	DONE	U	0306	0306	S0	Amber-A.25
L2410812-02	RRW-VO-MW-03-022824	C	NYTCL-8270-SIM-LVI	WATER	DONE	U	0306	0306	S0	Amber-A.25
WG1892049-1	Laboratory Method Bl	S	NYTCL-8270-SIM-LVI	WATER	DONE	U				
WG1892049-2	Laboratory Control S	S	NYTCL-8270-SIM-LVI	WATER	DONE	U				
WG1892049-3	LCS Duplicate	S	NYTCL-8270-SIM-LVI	WATER	DONE	U				
WG1892049-4	Matrix Spike	S	NYTCL-8270-SIM-LVI	WATER	DONE	U				
WG1892049-5	Matrix Spike Duplica	S	NYTCL-8270-SIM-LVI	WATER	DONE	U				
WG1892049-6	Matrix Spike	S	NYTCL-8270-SIM-LVI	WATER	DONE	U				
WG1892049-7	Matrix Spike Duplica	S	NYTCL-8270-SIM-LVI	WATER	DONE	U				
WG1892049-8	Matrix Spike	S	NYTCL-8270-SIM-LVI	WATER	DONE	U				
WG1892049-9	Matrix Spike Duplica	S	NYTCL-8270-SIM-LVI	WATER	DONE	U				

Comments:

WG1892049-3	WG1892049-2
WG1892049-4	L2410579-08
WG1892049-5	L2410579-08
WG1892049-6	L2410677-01
WG1892049-7	L2410677-01
WG1892049-8	L2410868-01
WG1892049-9	L2410868-01

ALPHA ANALYTICAL LABORATORIES, INC.

Alpha WORK GROUP REPORT (wk02)

Nov 04 2024, 10:10 am

Work Group: WG1892407 for Department: 2 Organic Preparation

Created: 05-MAR-24 Due: Operator: MAD

Sample	Client ID	C	Product	Matrix	Stat	UA	HOLD	DUE	PR	Location
L2410579-04	MW-4D	C	NYTCL-8270-SIM-LVI	WATER	DONE	U	0305	0305	S0	Amber-A.25
L2410579-05	MW-5S	C	NYTCL-8270-SIM-LVI	WATER	DONE	U	0305	0305	S0	Amber-A.25
WG1892407-1	Laboratory Method Bl	S	NYTCL-8270-SIM-LVI	WATER	DONE	U				
WG1892407-2	Laboratory Control S	S	NYTCL-8270-SIM-LVI	WATER	DONE	U				
WG1892407-3	LCS Duplicate	S	NYTCL-8270-SIM-LVI	WATER	DONE	U				

Comments:

WG1892407-3 WG1892407-2

Analysis log File

Total Files Reported in Log : 13
Log Generated From Directory: I:\8270SIM\sv119\231207nLVIical\

No.	DATA FILE	INJ METH	SAMPLE NAME	MISC	DATE INJ'D
1	TUNE.D	DFTPPRUN.M	TUNE	WG1861379,,ical	12/7/2023 12:42 pm
2	IL10.D	SIM-LVI-fast	IL10,32,,20 Lot#10186	WG1861379,,ical	12/7/2023 1:10 pm
3	IL9.D	SIM-LVI-fast	IL9,32,,10 Lot#10227	WG1861379,,ical	12/7/2023 1:27 pm
4	IL8.D	SIM-LVI-fast	IL8,32,,5 Lot#10228	WG1861379,,ical	12/7/2023 1:46 pm
5	IL7.D	SIM-LVI-fast	IL7,32,,1 Lot#10229	WG1861379,,ical	12/7/2023 2:03 pm
6	IL6.D	SIM-LVI-fast	IL6,32,,0.25 Lot#10230	WG1861379,,ical	12/7/2023 2:20 pm
7	IL5.D	SIM-LVI-fast	IL5,32,,0.1 Lot#10231	WG1861379,,ical	12/7/2023 2:36 pm
8	IL4.D	SIM-LVI-fast	IL4,32,,0.05 Lot#10232	WG1861379,,ical	12/7/2023 2:53 pm
9	IL3.D	SIM-LVI-fast	IL3,32,,0.025 Lot#10233	WG1861379,,ical	12/7/2023 3:09 pm
10	IL2.D	SIM-LVI-fast	IL2,32,,0.01 Lot#10234	WG1861379,,ical	12/7/2023 3:26 pm
11	IL1.D	SIM-LVI-fast	IL1,32,, 0.005 Lot#1023	WG1861379,,ical	12/7/2023 3:42 pm
12	ICV.D	SIM-LVI-fast	CQICV,32,,1.0 Lot#10193	WG1861379,,ical	12/7/2023 3:59 pm
13	insblk.D	SIM-LVI-fast			12/7/2023 4:15 pm

Analysis log File

Total Files Reported in Log : 15
Log Generated From Directory: I:\8270SIM\SV128\231211LVIical\

No.	DATA FILE	INJ METH	SAMPLE NAME	MISC	DATE INJ'D
1	TUNE.D	DFTPPfast.M	TUNE	WG1864557,,ical	12/11/2023 1:03 pm
2	IL10.D	fast-SIM-LVI	IL10,32,, 20.0 Lot#1018	WG1864557,,ical	12/11/2023 1:27 pm
3	IL9.D	fast-SIM-LVI	IL9,32,, 10.0 Lot#10227	WG1864557,,ical	12/11/2023 1:44 pm
4	IL8.D	fast-SIM-LVI	IL8,32,, 5.0 Lot#10228	WG1864557,,ical	12/11/2023 2:00 pm
5	IL7.D	fast-SIM-LVI	IL7,32,, 1.0 Lot#10229	WG1864557,,ical	12/11/2023 2:17 pm
6	IL6.D	fast-SIM-LVI	IL6,32,, 0.25 Lot#10230	WG1864557,,ical	12/11/2023 2:33 pm
7	IL5.D	fast-SIM-LVI	IL5,32,, 0.1 Lot#10231	WG1864557,,ical	12/11/2023 2:50 pm
8	IL4.D	fast-SIM-LVI	IL4,32,, 0.05 Lot#10232	WG1864557,,ical	12/11/2023 3:06 pm
9	IL3.D	fast-SIM-LVI	IL3,32,, 0.025 Lot#1023	WG1864557,,ical	12/11/2023 3:23 pm
10	IL2.D	fast-SIM-LVI	IL2,32,, 0.01 Lot#10234	WG1864557,,ical	12/11/2023 3:40 pm
11	insblk.D	fast-SIM-LVI			12/11/2023 4:30 pm
12	TUNEa.D	DFTPPfast.M	TUNEa	WG1864557,,ical	12/13/2023 6:43 am
13	IL1a.D	fast-SIM-LVI	IL1,32,, 0.005 Lot#1023	WG1864557,,ical	12/13/2023 7:14 am
14	ICVa.D	fast-SIM-LVI	CQICV,32,, 1.0 Lot#1019	WG1864557,,ical	12/13/2023 7:30 am
15	insblka.D	fast-SIM-LVI			12/13/2023 7:46 am

Dep.: GCMS
Inst: SV128
Date: **03/03/24**
Run:

Method
GC: 8270 SIMLVI

Seq: WG1891581

Vial	Data File	Sample	ICAL	notes	initials
48	deg0303	wg-1,32,, dftpp sv128	20676		
49	ccv0303	wg-3,32,,ICV 10475 (0303)			
50	blk0303	instrument blank			
1	891155-1	WG1891155-1,32,,ah			
2	891155-2	WG1891155-2,32,,ah			
3	891155-3	WG1891155-3,32,,ah			
4	09649-01	L2409649-01,32,,ah			
5	09649-02	L2409649-02,32,,ah			
6	891319-2	WG1891319-2,32,,ah			
7	891319-3	WG1891319-3,32,,ah			
8	891319-1	WG1891319-1,32,,ah			
9	862-01d1	L2409862-01d,32,5,MD,ah			
10	862-03d1	L2409862-03d,32,5,MD,ah			
11	862-05d1	L2409862-05d,32,5,MD,ah			
12	862-07d1	L2409862-07d,32,10,MD,ah			
13	891069-2	WG1891069-2,32,,ah			
14	891069-3	WG1891069-3,32,,ah			
15	891069-1	WG1891069-1,32,,ah			
16	11302-01	L2411302-01,32,,R1A,ah			
17	10288-02	L2410288-02,32,,ah			
18	10288-03	L2410288-03,32,,ah			
19	10288-04	L2410288-04,32,,ah			
20	10288-05	L2410288-05,32,,ah			
21	10288-06	L2410288-06,32,,ah			
22	10288-07	L2410288-07,32,,ah			
23	891069-4	WG1891069-4,32,,ah			
24	302-01d1	L2411302-01d,32,5,R1A,jjw			
25	891069-5	WG1891069-5,32,,ah			
26	10288-08	L2410288-08,32,,ah			
27	288-04d1	L2410288-04d,32,5,jjw			
28	10288-09	L2410288-09,32,,ah			
29	10288-10	L2410288-10,32,,ah			
30	891420-2	WG1891420-2,32,,ah			
31	891420-3	WG1891420-3,32,,ah			
32	891420-1	WG1891420-1,32,,ah			
33	10285-01	L2410285-01,32,,ah			
34	10285-02	L2410285-02,32,,ah			
35	10285-03	L2410285-03,32,,ah			
36	10285-04	L2410285-04,32,,ah			
37	10285-05	L2410285-05,32,,ah			
38	10285-06	L2410285-06,32,,ah			
39	10285-07	L2410285-07,32,,ah			

Dep.: GCMS
Inst: SV128
Date: **03/03/24**
Run:

Method
GC: 8270 SIMLVI

Seq: WG1891581

Vial	Data File	Sample	ICAL	notes	initials
40	10285-08	L2410285-08,32,,ah			

Dep.: GCMS
Inst: SV119
Date: **03/04/24**
Run:

Method
GC: 8270 SIMLVI

Seq: WG1891805

Vial	Data File	Sample	ICAL	notes	initials
48	deg0304	wg-1,32,,dftppsv119	20642		
49	ccv0304	wg-3,32,, ICV 10475 (0303)			
50	blank0304	instrument blank			
1	890366-1	WG1890366-1,32,,RV,ah			
2	277-01d1	L2410277-01d,32,50,RV,ah			
3	10285-09	L2410285-09,32,,ah			
4	891533-2	Wg1891533-2,32,,ah			
5	891533-3	Wg1891533-3,32,,ah			
6	891533-1	Wg1891533-1,32,,ah			
7	11412-04	L2411412-04,32,,r3b,ah			
8	11412-05	L2411412-05,32,,r3b,ah			
9	11412-06	L2411412-06,32,,r3b,ah			
10	11412-07	L2411412-07,32,,r3b,ah			
11	10453-02	L2410453-02,32,,ah			
12	0285-09	L2410285-09,32,,RV,ah			
13	0277-01d1	L2410277-01d,32,5,RV,ah			
14	10453-03	L2410453-03,32,,ah			
15	10453-04	L2410453-04,32,,ah			
16	10453-05	L2410453-05,32,,ah			
17	10453-07	L2410453-07,32,,ah			
18	10453-08	L2410453-08,32,,ah			
19	10579-01	L2410579-01,32,,ah			
20	566-01d1	L2410566-01d,32,5,MD,ah			
21	10579-02	L2410579-02,32,,ah			
22	10579-03	L2410579-03,32,,ah			
23	10579-06	L2410579-06,32,,ah			
24	10579-07	L2410579-07,32,,ah			
25	10579-09	L2410579-09,32,,ah			
26	10485-04	L2410485-04,32,,ah			
27	10485-09	L2410485-09,32,,ah			
28	10485-10	L2410485-10,32,,ah			
29	10485-12	L2410485-12,32,,ah			
30	10485-13	L2410485-13,32,,ah			
31	10485-14	L2410485-14,32,,ah			
32	10485-15	L2410485-15,32,,ah			
33	10485-20	L2410485-20,32,,ah			
34	09477-36	L2409477-36,32,,r3c,ah			
35	10566-02	L2410566-02,32,,ah			
36	10744-01	L2410744-01,32,,r2f,ah			
37	10744-02	L2410744-02,32,,r2f,ah			
38	10744-03	L2410744-03,32,,r2f,ah			
39	10516-21	L2410516-21,32,,ah			

Dep.: GCMS
Inst: SV119
Date: **03/04/24**
Run:

Method
GC: 8270 SIMLVI

Seq: WG1891805

Vial	Data File	Sample	ICAL	notes	initials
40	10920-01	L2410920-01,32,,ah			

Dep.: GCMS
Inst: SV119
Date: **03/05/24**
Run:

Method
GC: 8270 SIMLVI

Seq: WG1892203

Vial	Data File	Sample	ICAL	notes	initials
48	deg0305	wg-1,32,,dftppsv119	20642		03/05/24
49	ccv0305	wg-3,32,, ICV 10475 (0303)			RAP
50	blank0305	instrument blank			
1	891774-1	WG1891774-1,32,,ah			
2	891774-2	WG1891774-2,32,,ah			
3	891774-3	WG1891774-3,32,,ah			
4	10507-01	L2410507-01,32,,ah			
5	10507-03	L2410507-03,32,,ah			
6	891775-2	WG1891775-2,32,,ah			
7	891775-3	WG1891775-3,32,,ah			
8	891775-1	WG1891775-1,32,,ah			
9	10573-17	L2410573-17,32,,ah			
10	892182-2	WG1892182-2,32,,ah			
11	892182-3	WG1892182-3,32,,ah			
12	892182-1	WG1892182-1,32,,ah			
13	91775-1	WG1891775-1,32,,RV,ah			
14	10520-06	L2410520-06,32,,ah			
15	10565-08	L2410565-08,32,,ah			
16	10429-01	L2410429-01,32,,ah			
17	10429-02	L2410429-02,32,,ah			
18	10429-03	L2410429-03,32,,ah			
19	10430-01	L2410430-01,32,,ah			
20	10430-03	L2410430-03,32,,ah			
21	10430-04	L2410430-04,32,,ah			
22	10430-05	L2410430-05,32,,ah			
23	10430-06	L2410430-06,32,,ah			
24	10430-08	L2410430-08,32,,ah			
25	10430-09	L2410430-09,32,,ah			
26	10430-10	L2410430-10,32,,ah			
27	892049-2	WG1892049-2,32,,RR,jjw			
28	892049-3	WG1892049-3,32,,RR,jjw			
29	891794-2	WG1891794-2,32,,RR,jjw			
30	92049-3r	WG1892049-3,32,,RR,jjw			
31	891794-3	WG1891794-3,32,,RR,jjw			
32	10430-12	L2410430-12,32,,ah			
33	10485-23	L2410485-23,32,,ah			
34	10485-26	L2410485-26,32,,ah			
35	10485-35	L2410485-35,32,,ah			
36	10485-36	L2410485-36,32,,ah			
37	10485-38	L2410485-38,32,,ah			
38	744-02d1	L2410744-02d,32,2,R2F,ah			
39	11587-01	L2411587-01,32,,R3B,ah			

Dep.: GCMS
Inst: SV128
Date: **03/05/24**
Run:

Method
GC: 8270 SIMLVI

Seq: WG1892213

Vial	Data File	Sample	ICAL	notes	initials
48	deg0305	wg-1,32,, dftpp sv128	20676		03/05/24
49	ccv0305	wg-3,32,,ICV 10475 (0303)			RAP
49	ccv0305a	wg-3,32,,ICV 10475 (0303)			
50	blk0305	instrument blank			
1	891903-1	WG1891903-1,32,,ah			
2	891903-2	WG1891903-2,32,,ah			
3	891903-3	WG1891903-3,32,,ah			
4	10285-01	L2410285-01,32,,ah			
5	10485-37	L2410485-37,32,,ah			
6	892049-2	WG1892049-2,32,,ah			
7	892049-3	WG1892049-3,32,,ah			
8	892049-1	WG1892049-1,32,,ah			
9	10579-01	L2410579-01,32,,RV,ah			
10	10579-02	L2410579-02,32,,ah			
11	10579-03	L2410579-03,32,,ah			
12	10579-04	L2410579-04,32,,ah			
13	10579-05	L2410579-05,32,,ah			
14	0485-37	L2410485-37,32,,RV(IS),jjw			
15	10579-06	L2410579-06,32,,ah			
16	10579-08	L2410579-08,32,,ah			
17	892049-4	Wg1892049-4,32,,ah			
18	892049-5	Wg1892049-5,32,,ah			
19	92049-2	WG1892049-2,32,,RV(IS),jjw			
20	92049-3	WG1892049-3,32,,RV(IS),jjw			
21	92049-1	WG1892049-1,32,,RV(IS),jjw			
22	10579-09	L2410579-09,32,,ah			
23	10579-10	L2410579-10,32,,ah			
24	891794-2	Wg1891794-2,32,,ah			
25	891794-3	Wg1891794-3,32,,ah			
26	891794-1	Wg1891794-1,32,,ah			
27	10485-02	L2410485-02,32,,ah			
28	10485-05	L2410485-05,32,,ah			
29	10485-06	L2410485-06,32,,ah			
30	10485-07	L2410485-07,32,,ah			
31	10485-08	L2410485-08,32,,ah			
32	10485-11	L2410485-11,32,,ah			
33	10485-16	L2410485-16,32,,ah			
34	10485-17	L2410485-17,32,,ah			
35	10485-18	L2410485-18,32,,ah			
36	10485-19	L2410485-19,32,,ah			
37	10485-21	L2410485-21,32,,ah			
38	10485-22	L2410485-22,32,,ah			

Dep.: GCMS
Inst: SV119
Date: **03/05/24**
Run: **N**

Method
GC: 8270 SIMLVI

Seq: WG1892573

Vial	Data File	Sample	ICAL	notes	initials
48	deg0305n	wg-1,32,,dftppsv119	20642		
49	ccv0305n	wg-3,32,, ICV 10475 (02/25)			
50	blank0305n	instrument blank			
1	892363-1	WG1892363-1,32,,mrg			
2	892363-2	WG1892363-2,32,,mrg			
3	892363-3	WG1892363-3,32,,mrg			
4	10520-06	L2410520-06,32,,RE,mrg			
5	01337-73	L2401337-73,32,,mrg			
6	892363-5	WG1892363-5,32,,mrg			
7	892363-4	WG1892363-4,32,,mrg			
8	10887-09	L2410887-09,32,,mrg			
9	10485-21	L2410485-21,32,,RR,mrg			
10	10485-22	L2410485-22,32,,RR,mrg			
11	10430-04	L2410430-04,32,,RV,mrg			
12	10677-01	L2410677-01,32,,mrg			
13	892049-7	WG1892049-7,32,,mrg			
14	892049-6	WG1892049-6,32,,mrg			
15	10677-03	L2410677-03,32,,mrg			
16	10677-02	L2410677-02,32,,mrg			
17	10868-01	L2410868-01,32,,mrg			
18	892049-8	WG1892049-8,32,,mrg			
19	892049-9	WG1892049-9,32,,mrg			
20	10868-02	L2410868-02,32,,mrg			
21	10579-01	L2410579-01,32,,RE,mrg			
22	10812-01	L2410812-01,32,,mrg			
23	10812-02	L2410812-02,32,,mrg			
24	10812-03	L2410812-03,32,,mrg			
25	10812-04	L2410812-04,32,,mrg			
26	10867-01	L2410867-01,32,,mrg			
27	10516-04	L2410516-04,32,,mrg			

Dep.: GCMS
Inst: SV119
Date: **03/06/24**
Run:

Method
GC: 8270 SIMLVI

Seq: WG1892736

Vial	Data File	Sample	ICAL	notes	initials
48	deg0306	wg-1,32,,dftppsv119	20642		03/06/24
49	ccv0306	wg-3,32,, ICV 10475 (0303)			RAP
50	blank0306	instrument blank			
1	892407-1	WG1892407-1,32,,ah			
2	892407-2	WG1892407-2,32,,ah			
3	892407-3	WG1892407-3,32,,ah			
4	10579-04	L2410579-04,32,,ah			
5	10579-05	L2410579-05,32,,ah			
6	892406-2	WG1892406-2,32,,ah			
7	892406-3	WG1892406-3,32,,ah			
8	892406-1	WG1892406-1,32,,ah			
9	10429-01	L2410429-01,32,,ah			
10	892569-2	WG1892569-2,32,,ah			
11	892569-3	WG1892569-3,32,,ah			
12	892569-1	WG1892569-1,32,,ah			
13	10430-03	L2410430-03,32,,ah			
14	10430-04	L2410430-04,32,,ah			
15	10833-09	L2410833-09,32,,RR,ah			
16	10849-01	L2410849-01,32,,ah			
17	10849-02	L2410849-02,32,,ah			
18	10849-04	L2410849-04,32,,ah			
19	10745-01	L2410745-01,32,,ah			
20	10745-02	L2410745-02,32,,ah			
21	10731-02	L2410731-02,32,,ah			
22	10731-03	L2410731-03,32,,ah			
23	10731-04	L2410731-04,32,,ah			
24	10731-05	L2410731-05,32,,ah			
25	10731-06	L2410731-06,32,,ah			
26	10731-07	L2410731-07,32,,ah			
27	10731-08	L2410731-08,32,,ah			
28	10731-09	L2410731-09,32,,ah			
29	10731-10	L2410731-10,32,,ah			
30	892333-1	WG1892333-1,32,,RV(con),ah			
31	892609-2	WG1892609-2,32,,ah			
32	10747-04	L2410747-04,32,,RR(IS),ah			
33	10747-09	L2410747-09,32,,ah			
34	10747-10	L2410747-10,32,,ah			
35	892609-3	WG1892609-3,32,,ah			
36	892609-1	WG1892609-1,32,,ah			
37	10764-01	L2410764-01,32,,ah			
38	10764-02	L2410764-02,32,,ah			
39	10764-03	L2410764-03,32,,ah			

Dep.: GCMS
Inst: SV119
Date: **03/06/24**
Run:

Method
GC: 8270 SIMLVI

Seq: WG1892736

Vial	Data File	Sample	ICAL	notes	initials
40	10764-04	L2410764-04,32,,ah			

ORGANIC ELN REPORT

Workgroup: WG1892049

Prep Method: EPA 3510C
Solvent Type: DCM **Lot #:** EH976
Surrogate Type: ABN **Lot #:** 10557x-080624, 10557h-08062
Spike Type: ABN-SIM **Lot #:** 10560x-081724, 10470n-07132
Spike Verify by: LJO, ZCH, NBD
Lims Spikelot: 8270-LVI

Additional Reagents/Stds

H2SO4	A021724
Na2SO4	23F1561004
NaOH	10NNaOH021724

Conc.Method: Buchi
Solvent Type: DCM
Lot #: EH976

Additional Reagents/Stds

Cleanup 1

Cleanup Method 1:
Cleanup Method 2:
Solvent Type: **Lot #:**

Additional Reagents/Stds

Sample/ Type	Extraction: Extract Date	Analyst	Sample Vol ml	Ph	Surr Amt ml	Spike Amt ml	Concentration: Conc Date	Analyst	Final Vol ml	Conc Unit
L2410516-04 WATER	03/05/24 11:41	Nicholas Dunn	275	<2, >12	1		03/05/24 18:05	Leslie Castanos	1	H
	10557n-080624,									
L2410579-01 WATER	03/05/24 11:41	Nicholas Dunn	275	<2, >12	1		03/05/24 18:05	Leslie Castanos	1	H
	10557n-080624,									
L2410579-02 WATER	03/04/24 19:24	Luke O'Donnell	275	<2, >12	1		03/05/24 01:38	Alaina Ohara-Cruz	1	H
L2410579-03 WATER	03/04/24 19:24	Luke O'Donnell	275	<2, >12	1		03/05/24 01:38	Alaina Ohara-Cruz	1	H
L2410579-04	03/04/24 19:24	Luke O'Donnell	275	<2, >12	1		03/05/24 01:38	Alaina Ohara-Cruz	1	H
L2410579-05	03/04/24 19:24	Luke O'Donnell	275	<2, >12	1		03/05/24 01:38	Alaina Ohara-Cruz	1	H

Reported: 04-NOV-24 10:10 AM

ORGANIC ELN REPORT

Workgroup: WG1892049

Sample/ Type	Extraction						Concentration			
	Extract Date	Analyst	Sample Vol ml	Ph	Surr Amt ml	Spike Amt ml	Conc Date	Analyst	Final Vol ml	Conc Unit
L2410579-06 WATER	03/04/24 19:24	Luke O'Donnell	275	<2, >12	1		03/05/24 01:38	Alaina Ohara-Cruz	1	H
L2410579-08 WATER	03/04/24 19:24	Luke O'Donnell	275	<2, >12	1		03/05/24 01:38	Alaina Ohara-Cruz	1	H
L2410579-09 WATER	03/04/24 19:24	Luke O'Donnell	275	<2, >12	1		03/05/24 01:38	Alaina Ohara-Cruz	1	H
L2410579-10 WATER	03/04/24 19:24	Luke O'Donnell	275	<2, >12	1		03/05/24 01:38	Alaina Ohara-Cruz	1	H
L2410677-01	03/05/24 07:39	Michael Daring	275	<2, >12	1		03/05/24 11:54	Ashley Busold	1	H
	MIS-SPIKED, REDONE 10557h-080624									
L2410677-02	03/05/24 07:39	Michael Daring	275	<2, >12	1		03/05/24 11:54	Ashley Busold	1	H
	10557h-080624									
L2410677-03 WATER	03/05/24 07:39	Michael Daring	275	<2, >12	1		03/05/24 11:54	Ashley Busold	1	H
	10557h-080624									
L2410812-01	03/05/24 07:39	Nicholas Dunn	275	<2, >12	1		03/05/24 18:05	Leslie Castanos	1	H
	10557n-080624,									
L2410812-02 WATER	03/05/24 07:39	Nicholas Dunn	275	<2, >12	1		03/05/24 18:05	Leslie Castanos	1	H
	10557n-080624,									

ORGANIC ELN REPORT

Workgroup: WG1892049

Sample/ Type	Extraction						Concentration			
	Extract Date	Analyst	Sample Vol **ml**	Ph	Surr Amt **ml**	Spike Amt **ml**	Conc Date	Analyst	Final Vol **ml**	Conc Unit
L2410812-03	03/05/24 07:39	Nicholas Dunn	275	<2, >12	1		03/05/24 18:05	Leslie Castanos	1	H
	10557n-080624,									
L2410812-04	03/05/24 07:39	Nicholas Dunn	275	<2, >12	1		03/05/24 18:05	Leslie Castanos	1	H
	10557n-080624,									
L2410812-05					1					
L2410812-06	03/05/24 11:53	Nicholas Dunn			1					
L2410867-01 SAMP	03/05/24 11:53	Nicholas Dunn	275	<2, >12	1		03/05/24 18:05	Leslie Castanos	1	H
	10557n-080624,									
L2410868-01	03/05/24 11:53	Nicholas Dunn	275	<2, >12	1		03/05/24 18:05	Leslie Castanos	1	H
	10557n-080624,									
L2410868-02	03/05/24 11:53	Nicholas Dunn	275	<2, >12	1		03/05/24 18:05	Leslie Castanos	1	H
	10557n-080624,									
WG1892049-1 BLANK	03/04/24 19:24	Luke O'Donnell	275	<2, >12	1		03/05/24 01:38	Alaina Ohara-Cruz	1	H
	COMBO WITH WG1892048									
WG1892049-2 LCS	03/04/24 19:24	Luke O'Donnell	275	<2, >12	1	1	03/05/24 01:38	Alaina Ohara-Cruz	1	H

Reported: 04-NOV-24 10:10 AM

ORGANIC ELN REPORT

Workgroup: WG1892049

Sample/ Type	Extraction						Concentration			
	Extract Date	Analyst	Sample Vol **ml**	Ph	Surr Amt **ml**	Spike Amt **ml**	Conc Date	Analyst	Final Vol **ml**	Conc Unit
WG1892049-3 LCSD	03/04/24 19:24	Luke O'Donnell	275	<2, >12	1	1	03/05/24 01:38	Alaina Ohara-Cruz	1	H
WG1892049-4 MS	03/04/24 19:24	Luke O'Donnell	275	<2, >12	1	1	03/05/24 01:38	Alaina Ohara-Cruz	1	H
WG1892049-5 MSD	03/04/24 19:24	Luke O'Donnell	275	<2, >12	1	1	03/05/24 01:38	Alaina Ohara-Cruz	1	H
WG1892049-6 MS	03/05/24 07:39	Michael Daring	275	<2, >12	1	1	03/05/24 11:54	Ashley Busold	1	H
	10557h-080624									
WG1892049-7 MSD	03/05/24 07:39	Michael Daring	275	<2, >12	1	1	03/05/24 11:54	Ashley Busold	1	H
	10557h-080624									
WG1892049-8 MS	03/05/24 11:41	Nicholas Dunn	275	<2, >12	1	1	03/05/24 18:05	Leslie Castanos	1	H
	10557n-080624,10560t-081724,									
WG1892049-9 MSD	03/05/24 11:41	Nicholas Dunn	275	<2, >12	1	1	03/05/24 18:05	Leslie Castanos	1	H
	10557n-080624,10560t-081724,									

Reported: 04-NOV-24 10:10 AM

ORGANIC ELN REPORT

Workgroup: WG1892407

Prep Method: EPA 3510C
Solvent Type: DCM **Lot #:** EH988
Surrogate Type: ABN **Lot #:** 10557h-080624,
Spike Type: ABN-SIM **Lot #:** 10560x-081724,10470n-07132
Spike Verify by: MAD
Lims Spikelot: 8270-LVI

Additional Reagents/Stds

H2SO4	A021724
Na2SO4	23F1561004
NaOH	10NNaOH021724

Conc.Method: Buchi
Solvent Type: DCM
Lot #: EH976

Additional Reagents/Stds

Cleanup 1

Cleanup Method 1:
Cleanup Method 2:
Solvent Type: **Lot #:**

Additional Reagents/Stds

Sample/ Type	Extraction: Extract Date	Analyst	Sample Vol ml	Ph	Surr Amt ml	Spike Amt ml	Concentration: Conc Date	Analyst	Final Vol ml	Conc Unit
L2410579-04 WATER	03/05/24 13:51	Michael Daring	275	<2,>12	1		03/05/24 22:52	Leslie Castanos	1	M
L2410579-05 WATER	03/05/24 13:51	Michael Daring	275	<2,>12	1		03/05/24 22:52	Leslie Castanos	1	M
WG1892407-1 BLANK	03/05/24 13:51	Michael Daring	275	<2,>12	1		03/05/24 22:52	Leslie Castanos	1	M
WG1892407-2 LCS	03/05/24 13:51	Michael Daring	275	<2,>12	1	1	03/05/24 22:52	Leslie Castanos	1	M
WG1892407-3 LCSD	03/05/24 13:51	Michael Daring	275	<2,>12	1	1	03/05/24 22:52	Leslie Castanos	1	M

Reported: 04-NOV-24 10:10 AM

ORGANIC ELN REPORT

Workgroup: WG1891420

Prep Method: EPA 3510C
Solvent Type: DCM
Surrogate Type: ABN
Spike Type: ABN-SIM
Spike Verify by: RET
Lims Spikelot: 8270-LVI

Lot #: EH976
Lot #: 10557e-080624,
Lot #: 10433l-061724, 10470o-07132

Additional Reagents/Stds

H2SO4	A021724
Na2SO4	23F1561004
NaOH	10NNaOH021724

Conc.Method: Buchi
Solvent Type: DCM
Lot #: EH976

Additional Reagents/Stds

Cleanup 1

Cleanup Method 1:
Cleanup Method 2:
Solvent Type:
Lot #:

Additional Reagents/Stds

Sample/ Type	Extraction: Extract Date	Analyst	Sample Vol ml	Ph	Surr Amt ml	Spike Amt ml	Concentration: Conc Date	Analyst	Final Vol ml	Conc Unit
L2410285-01 SAMP	03/02/24 07:21	Ryan Trenholm	275	<2,>12	1		03/02/24 10:29	Caroline Doiron	1	H
L2410285-02 SAMP	03/02/24 07:21	Ryan Trenholm	275	<2,>12	1		03/02/24 10:59	Caroline Doiron	1	H
L2410285-03 SAMP	03/02/24 07:21	Ryan Trenholm	275	<2,>12	1		03/02/24 10:59	Caroline Doiron	1	H
L2410285-04 SAMP	03/02/24 07:21	Ryan Trenholm	275	<2,>12	1		03/02/24 10:59	Caroline Doiron	1	H
L2410285-05 SAMP	03/02/24 07:21	Ryan Trenholm	275	<2,>12	1		03/02/24 10:59	Caroline Doiron	1	H
L2410285-06 SAMP	03/02/24 07:21	Ryan Trenholm	275	<2,>12	1		03/02/24 13:47	Caroline Doiron	1	H
L2410285-07 SAMP	03/02/24 07:21	Ryan Trenholm	275	<2,>12	1		03/02/24 13:47	Caroline Doiron	1	H

Reported: 04-NOV-24 10:10 AM

ORGANIC ELN REPORT

Workgroup: WG1891420

Sample/ Type	Extraction						Concentration			
	Extract Date	Analyst	Sample Vol **ml**	Ph	Surr Amt **ml**	Spike Amt **ml**	Conc Date	Analyst	Final Vol **ml**	Conc Unit
L2410285-08 SAMP	03/02/24 07:21	Ryan Trenholm	275	<2,>12	1		03/02/24 13:47	Caroline Doiron	1	H
L2410285-09 SAMP	03/02/24 07:21	Ryan Trenholm	275	<2,>12	1		03/02/24 13:47	Caroline Doiron	1	H
L2410579-01	03/02/24 09:09	Ryan Trenholm	275	<2,>12	1		03/02/24 13:59	Caroline Doiron	1	M
L2410579-02	03/02/24 09:09	Ryan Trenholm	275	<2,>12	1		03/02/24 13:47	Caroline Doiron	1	M
L2410579-03	03/02/24 09:09	Ryan Trenholm	275	<2,>12	1		03/02/24 13:47	Caroline Doiron	1	M
L2410579-06	03/02/24 09:10	Ryan Trenholm	275	<2,>12	1		03/02/24 13:47	Caroline Doiron	1	M
L2410579-07 WATER	03/02/24 09:10	Ryan Trenholm	275	<2,>12	1		03/02/24 13:59	Caroline Doiron	1	M
L2410579-09	03/02/24 09:10	Ryan Trenholm	275	<2,>12	1		03/02/24 13:47	Caroline Doiron	1	M
WG1891420-1 BLANK	03/02/24 07:21 **WG1891419,**	Ryan Trenholm	275	<2,>12	1		03/02/24 10:29	Caroline Doiron	1	H
WG1891420-2 LCS	03/02/24 07:21	Ryan Trenholm	275	<2,>12	1	1	03/02/24 10:59	Caroline Doiron	1	H

Reported: 04-NOV-24 10:10 AM

ORGANIC ELN REPORT

Workgroup: WG1891420

Sample/ Type	Extraction						Concentration			
	Extract Date	Analyst	Sample Vol **ml**	Ph	Surr Amt **ml**	Spike Amt **ml**	Conc Date	Analyst	Final Vol **ml**	Conc Unit
WG1891420-3 LCSD	03/02/24 07:21	Ryan Trenholm	275	<2,>12	1	1	03/02/24 10:59	Caroline Doiron	1	H

Reported: 04-NOV-24 10:10 AM

GC Extractable Analysis Polychlorinated Biphenyls (PCB)

Aroclor QC Summary

Surrogate Recovery Summary
Form 2
PCBs

Client: Alpha Geoscience
Project Name: HUNTINGTON READY MIX

Lab Number: L2410579
Project Number: 20116
Matrix: Water

GC Column 1: CLP-Pesticide
GC Column 2: CLP-PesticideII

CLIENT ID (LAB SAMPLE NO.)	TCX 1 %REC	TCX 2 %REC	DCB 1 %REC	DCB 2 %REC	OTHER (1)	OTHER (2)	TOT OUT
MW-1S (L2410579-01)	70	69	84	75			0
MW-2S (L2410579-02)	76	76	93	94			0
MW-3S (L2410579-03)	75	75	94	92			0
MW-4D (L2410579-04)	69	73	81	84			0
MW-5S (L2410579-05)	69	70	86	86			0
MW-6D (L2410579-06)	70	72	87	86			0
MW-7S (L2410579-07)	68	71	86	86			0
MW-8S (L2410579-08)	74	76	93	90			0
DUP (L2410579-09)	60	62	73	74			0
EB (L2410579-10)	64	66	48	50			0
WG1892017-1BLANK	75	77	90	96			0
WG1892017-2LCS	70	68	129	85			0
WG1892017-3LCSD	81	79	89	95			0
MW-8SMS	70	73	86	87			0
MW-8SMSD	72	72	88	88			0

QC LIMITS
(30-150) TCX = 2,4,5,6-TETRACHLORO-M-XYLENE
(30-150) DCBP = DECACHLOROBIPHENYL

*** Values outside of QC limits**

Laboratory Control Sample Summary
Form 3
PCBs

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Matrix (Level)	: WATER (LOW)		
LCS Sample ID	: WG1892017-2 **Analysis Date** : 03/05/24 07:25	**File ID**	: P2240305a-07
LCSD Sample ID	: WG1892017-3 **Analysis Date** : 03/05/24 07:35	**File ID**	: P2240305a-08

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	True (ug/l)	Found (ug/l)	%R	True (ug/l)	Found (ug/l)	%R	RPD	Recovery Limits	RPD Limit
Aroclor 1016	1.78	1.51	85	1.78	1.59	89	5	40-140	50
Aroclor 1260	1.78	1.36	76	1.78	1.58	89	15	40-140	50

Matrix Spike Sample Summary
Form 3
PCBs

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Client Sample ID	: MW-8S	**Matrix (Level)**	: WATER (LOW)
Lab Sample ID	: L2410579-08	**Analysis Date**	: 03/05/24 07:44
Matrix Spike	: WG1892017-4	**MS Analysis Date**	: 03/05/24 07:53
Matrix Spike Dup	: WG1892017-5	**MSD Analysis Date**	: 03/05/24 08:03

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	Sample Conc. (ug/l)	Spike Added (ug/l)	Spike Conc. (ug/l)	%R	Spike Added (ug/l)	Spike Conc. (ug/l)	%R	RPD	Recovery Limits	RPD Limit
Aroclor 1016	ND	1.78	1.50	84	1.78	1.54	86	3	40-140	50
Aroclor 1260	ND	1.78	1.47	82	1.78	1.43	80	3	40-140	50

Method Blank Summary
Form 4
PCBs

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab Sample ID	: WG1892017-1	**Lab File ID**	: P2240305a-06
Matrix	: WATER	**Extraction Date**	: 03/04/24
Sulfur Cleanup	: Y		
Analysis Date (1)	: 03/05/24 07:16	**Analysis Date (2)**	: 03/05/24 07:16
Instrument ID (1)	: PEST2	**Instrument ID (2)**	: PEST2

Client Sample No.	Lab Sample ID	Analysis Date 1	Analysis Date 2
WG1892017-2LCS	WG1892017-2	03/05/24 07:25	03/05/24 07:25
WG1892017-3LCSD	WG1892017-3	03/05/24 07:35	03/05/24 07:35
MW-8S	L2410579-08	03/05/24 07:44	03/05/24 07:44
MW-8SMS	WG1892017-4	03/05/24 07:53	03/05/24 07:53
MW-8SMSD	WG1892017-5	03/05/24 08:03	03/05/24 08:03
MW-1S	L2410579-01	03/05/24 08:12	03/05/24 08:12
MW-2S	L2410579-02	03/05/24 08:22	03/05/24 08:22
MW-3S	L2410579-03	03/05/24 08:31	03/05/24 08:31
MW-4D	L2410579-04	03/05/24 08:41	03/05/24 08:41
MW-5S	L2410579-05	03/05/24 08:50	03/05/24 08:50
MW-6D	L2410579-06	03/05/24 08:59	03/05/24 08:59
MW-7S	L2410579-07	03/05/24 09:09	03/05/24 09:09
DUP	L2410579-09	03/05/24 09:18	03/05/24 09:18
EB	L2410579-10	03/05/24 09:28	03/05/24 09:28

Analytical Sequence
Form 8b
PCBs

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Instrument ID	: PEST2	**Initial Calib. Date(s)**	: 02/29/24 02/29/24

Client ID	Lab ID	Date/Time Analyzed
1242/1268 L4 (250ug/L)	R1800362-1	02/29/24 12:37
1232/1262 L4 (250ug/L)	R1800362-3	02/29/24 12:47
1248 L4 (250ug/L)	R1800362-2	02/29/24 12:55
1221/1254 L4 (250ug/L)	R1800362-4	02/29/24 13:05
1016/1260 L1 (10ug/L)	R1800362-5	02/29/24 13:14
1016/1260 L2 (50ug/L)	R1800362-6	02/29/24 13:24
1016/1260 L3 (100ug/L)	R1800362-7	02/29/24 13:33
1016/1260 L4 (250ug/L)	R1800362-8	02/29/24 13:42
1016/1260 L5 (500ug/L)	R1800362-9	02/29/24 13:52
1016/1260 L6 (1000ug/L)	R1800362-10	02/29/24 14:01
R1800362-11 ICV	R1800362-11	02/29/24 14:11
R1800362-12 ICV	R1800362-12	02/29/24 14:19
R1800362-13 ICV	R1800362-13	02/29/24 14:28
R1800362-14 ICV	R1800362-14	02/29/24 14:37
R1800362-15 ICV	R1800362-15	02/29/24 14:47
WG1892200-1 CCAL	WG1892200-1	03/05/24 05:34
WG1892017-1 BLANK	WG1892017-1	03/05/24 07:16
WG1892017-2 LCS	WG1892017-2	03/05/24 07:25
WG1892017-3 LCSD	WG1892017-3	03/05/24 07:35
MW-8S	L2410579-08	03/05/24 07:44
MW-8S MS	WG1892017-4	03/05/24 07:53
MW-8S MSD	WG1892017-5	03/05/24 08:03
MW-1S	L2410579-01	03/05/24 08:12
MW-2S	L2410579-02	03/05/24 08:22
MW-3S	L2410579-03	03/05/24 08:31
MW-4D	L2410579-04	03/05/24 08:41
MW-5S	L2410579-05	03/05/24 08:50
MW-6D	L2410579-06	03/05/24 08:59
MW-7S	L2410579-07	03/05/24 09:09
DUP	L2410579-09	03/05/24 09:18
EB	L2410579-10	03/05/24 09:28

Date Created: 03/07/23
Created By: Jason Hebert
File: PM14021-1
Page: 1

PCB - EPA 8082A (WATER)

Holding Time: 365 days
Container/Sample Preservation: 2 - Amber 1000ml unpreserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Aroclor 1016	12674-11-2	0.25	0.0156	ug/l	40-140	50	40-140	50	50			
Aroclor 1221	11104-28-2	0.25	0.0221	ug/l	40-140	50	40-140	50	50			
Aroclor 1232	11141-16-5	0.25	0.046	ug/l	40-140	50	40-140	50	50			
Aroclor 1242	53469-21-9	0.25	0.0362	ug/l	40-140	50	40-140	50	50			
Aroclor 1248	12672-29-6	0.25	0.0455	ug/l	40-140	50	40-140	50	50			
Aroclor 1254	11097-69-1	0.25	0.0168	ug/l	40-140	50	40-140	50	50			
Aroclor 1260	11096-82-5	0.25	0.0344	ug/l	40-140	50	40-140	50	50			
Aroclor 1262	37324-23-5	0.25	0.033	ug/l	40-140	30	40-140	50	50			
Aroclor 1268	11100-14-4	0.25	0.0317	ug/l	40-140	30	40-140	50	50			
PCBs, Total	1336-36-3	0.25	0.0156	ug/l				50	50			
2,4,5,6-Tetrachloro-m-xylene	*877-09-8*									*30-150*		
Decachlorobiphenyl	*2051-24-3*									*30-150*		

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

Date Created: 03/07/23
Created By: Jason Hebert
File: PM14022-1
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PCB - EPA 8082A (SOIL)

Holding Time: 365 days
Container/Sample Preservation: 1 - Glass 250ml/8oz unpreserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Aroclor 1016	12674-11-2	50	4.44	ug/kg	40-140	50	40-140	50	50			
Aroclor 1221	11104-28-2	50	5.01	ug/kg	40-140	50	40-140	50	50			
Aroclor 1232	11141-16-5	50	10.6	ug/kg	40-140	50	40-140	50	50			
Aroclor 1242	53469-21-9	50	6.74	ug/kg	40-140	50	40-140	50	50			
Aroclor 1248	12672-29-6	50	7.5	ug/kg	40-140	50	40-140	50	50			
Aroclor 1254	11097-69-1	50	5.47	ug/kg	40-140	50	40-140	50	50			
Aroclor 1260	11096-82-5	50	9.24	ug/kg	40-140	50	40-140	50	50			
Aroclor 1262	37324-23-5	50	6.35	ug/kg	40-140	30	40-140	50	50			
Aroclor 1268	11100-14-4	50	5.18	ug/kg	40-140	30	40-140	50	50			
PCBs, Total	1336-36-3	50	4.44	ug/kg				50	50			
2,4,5,6-Tetrachloro-m-xylene	*877-09-8*									*30-150*		
Decachlorobiphenyl	*2051-24-3*									*30-150*		

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

Aroclor Sample Data

Results Summary
Form 1
Polychlorinated Biphenyls by GC

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2410579-01	**Date Collected**	: 02/26/24 14:10
Client ID	: MW-1S	**Date Received**	: 02/27/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 03/05/24 08:12
Sample Matrix	: WATER	**Date Extracted**	: 03/04/24
Analytical Method	: 1,8082A	**Dilution Factor**	: 1
Lab File ID	: P2240305a-12	**Analyst**	: MEO
Sample Amount	: 140 ml	**Instrument ID**	: PEST2
Extraction Method	: EPA 3510C	**GC Column**	: CLP-Pesticide
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: Y		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
12674-11-2	Aroclor 1016	ND	0.071	0.061	U
11104-28-2	Aroclor 1221	ND	0.071	0.061	U
11141-16-5	Aroclor 1232	ND	0.071	0.061	U
53469-21-9	Aroclor 1242	ND	0.071	0.061	U
12672-29-6	Aroclor 1248	ND	0.071	0.061	U
11097-69-1	Aroclor 1254	ND	0.071	0.061	U
11096-82-5	Aroclor 1260	ND	0.071	0.061	U
37324-23-5	Aroclor 1262	ND	0.071	0.061	U
11100-14-4	Aroclor 1268	ND	0.071	0.061	U
1336-36-3	PCBs, Total	ND	0.071	0.061	U

Results Summary
Form 1
Polychlorinated Biphenyls by GC

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2410579-02	**Date Collected**	: 02/26/24 15:25
Client ID	: MW-2S	**Date Received**	: 02/27/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 03/05/24 08:22
Sample Matrix	: WATER	**Date Extracted**	: 03/04/24
Analytical Method	: 1,8082A	**Dilution Factor**	: 1
Lab File ID	: P2240305a-13	**Analyst**	: MEO
Sample Amount	: 140 ml	**Instrument ID**	: PEST2
Extraction Method	: EPA 3510C	**GC Column**	: CLP-Pesticide
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: Y		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
12674-11-2	Aroclor 1016	ND	0.071	0.061	U
11104-28-2	Aroclor 1221	ND	0.071	0.061	U
11141-16-5	Aroclor 1232	ND	0.071	0.061	U
53469-21-9	Aroclor 1242	ND	0.071	0.061	U
12672-29-6	Aroclor 1248	ND	0.071	0.061	U
11097-69-1	Aroclor 1254	ND	0.071	0.061	U
11096-82-5	Aroclor 1260	ND	0.071	0.061	U
37324-23-5	Aroclor 1262	ND	0.071	0.061	U
11100-14-4	Aroclor 1268	ND	0.071	0.061	U
1336-36-3	PCBs, Total	ND	0.071	0.061	U

Results Summary
Form 1
Polychlorinated Biphenyls by GC

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2410579-03	**Date Collected**	: 02/26/24 16:30
Client ID	: MW-3S	**Date Received**	: 02/27/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 03/05/24 08:31
Sample Matrix	: WATER	**Date Extracted**	: 03/04/24
Analytical Method	: 1,8082A	**Dilution Factor**	: 1
Lab File ID	: P2240305a-14	**Analyst**	: MEO
Sample Amount	: 140 ml	**Instrument ID**	: PEST2
Extraction Method	: EPA 3510C	**GC Column**	: CLP-Pesticide
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: Y		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
12674-11-2	Aroclor 1016	ND	0.071	0.061	U
11104-28-2	Aroclor 1221	ND	0.071	0.061	U
11141-16-5	Aroclor 1232	ND	0.071	0.061	U
53469-21-9	Aroclor 1242	ND	0.071	0.061	U
12672-29-6	Aroclor 1248	ND	0.071	0.061	U
11097-69-1	Aroclor 1254	ND	0.071	0.061	U
11096-82-5	Aroclor 1260	ND	0.071	0.061	U
37324-23-5	Aroclor 1262	ND	0.071	0.061	U
11100-14-4	Aroclor 1268	ND	0.071	0.061	U
1336-36-3	PCBs, Total	ND	0.071	0.061	U

Results Summary
Form 1
Polychlorinated Biphenyls by GC

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2410579-04	**Date Collected**	: 02/27/24 09:05
Client ID	: MW-4D	**Date Received**	: 02/27/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 03/05/24 08:41
Sample Matrix	: WATER	**Date Extracted**	: 03/04/24
Analytical Method	: 1,8082A	**Dilution Factor**	: 1
Lab File ID	: P2240305a-15	**Analyst**	: MEO
Sample Amount	: 140 ml	**Instrument ID**	: PEST2
Extraction Method	: EPA 3510C	**GC Column**	: CLP-Pesticide
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: Y		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
12674-11-2	Aroclor 1016	ND	0.071	0.061	U
11104-28-2	Aroclor 1221	ND	0.071	0.061	U
11141-16-5	Aroclor 1232	ND	0.071	0.061	U
53469-21-9	Aroclor 1242	ND	0.071	0.061	U
12672-29-6	Aroclor 1248	ND	0.071	0.061	U
11097-69-1	Aroclor 1254	ND	0.071	0.061	U
11096-82-5	Aroclor 1260	ND	0.071	0.061	U
37324-23-5	Aroclor 1262	ND	0.071	0.061	U
11100-14-4	Aroclor 1268	ND	0.071	0.061	U
1336-36-3	PCBs, Total	ND	0.071	0.061	U

Results Summary
Form 1
Polychlorinated Biphenyls by GC

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2410579-05	**Date Collected**	: 02/27/24 08:40
Client ID	: MW-5S	**Date Received**	: 02/27/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 03/05/24 08:50
Sample Matrix	: WATER	**Date Extracted**	: 03/04/24
Analytical Method	: 1,8082A	**Dilution Factor**	: 1
Lab File ID	: P2240305a-16	**Analyst**	: MEO
Sample Amount	: 140 ml	**Instrument ID**	: PEST2
Extraction Method	: EPA 3510C	**GC Column**	: CLP-Pesticide
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: Y		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
12674-11-2	Aroclor 1016	ND	0.071	0.061	U
11104-28-2	Aroclor 1221	ND	0.071	0.061	U
11141-16-5	Aroclor 1232	ND	0.071	0.061	U
53469-21-9	Aroclor 1242	ND	0.071	0.061	U
12672-29-6	Aroclor 1248	ND	0.071	0.061	U
11097-69-1	Aroclor 1254	ND	0.071	0.061	U
11096-82-5	Aroclor 1260	ND	0.071	0.061	U
37324-23-5	Aroclor 1262	ND	0.071	0.061	U
11100-14-4	Aroclor 1268	ND	0.071	0.061	U
1336-36-3	PCBs, Total	ND	0.071	0.061	U

Results Summary
Form 1
Polychlorinated Biphenyls by GC

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2410579-06	**Date Collected**	: 02/26/24 16:35
Client ID	: MW-6D	**Date Received**	: 02/27/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 03/05/24 08:59
Sample Matrix	: WATER	**Date Extracted**	: 03/04/24
Analytical Method	: 1,8082A	**Dilution Factor**	: 1
Lab File ID	: P2240305a-17	**Analyst**	: MEO
Sample Amount	: 140 ml	**Instrument ID**	: PEST2
Extraction Method	: EPA 3510C	**GC Column**	: CLP-Pesticide
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: Y		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
12674-11-2	Aroclor 1016	ND	0.071	0.061	U
11104-28-2	Aroclor 1221	ND	0.071	0.061	U
11141-16-5	Aroclor 1232	ND	0.071	0.061	U
53469-21-9	Aroclor 1242	ND	0.071	0.061	U
12672-29-6	Aroclor 1248	ND	0.071	0.061	U
11096-82-5	Aroclor 1260	ND	0.071	0.061	U
37324-23-5	Aroclor 1262	ND	0.071	0.061	U
11100-14-4	Aroclor 1268	ND	0.071	0.061	U

Results Summary
Form 1
Polychlorinated Biphenyls by GC

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2410579-06	**Date Collected**	: 02/26/24 16:35
Client ID	: MW-6D	**Date Received**	: 02/27/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 03/05/24 08:59
Sample Matrix	: WATER	**Date Extracted**	: 03/04/24
Analytical Method	: 1,8082A	**Dilution Factor**	: 1
Lab File ID	: P2240305a-17	**Analyst**	: MEO
Sample Amount	: 140 ml	**Instrument ID**	: PEST2
Extraction Method	: EPA 3510C	**GC Column**	: CLP-PesticideII
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: Y		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
11097-69-1	Aroclor 1254	ND	0.071	0.061	U
1336-36-3	PCBs, Total	ND	0.071	0.061	U

Results Summary
Form 1
Polychlorinated Biphenyls by GC

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2410579-07	**Date Collected**	: 02/26/24 14:45
Client ID	: MW-7S	**Date Received**	: 02/27/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 03/05/24 09:09
Sample Matrix	: WATER	**Date Extracted**	: 03/04/24
Analytical Method	: 1,8082A	**Dilution Factor**	: 1
Lab File ID	: P2240305a-18	**Analyst**	: MEO
Sample Amount	: 140 ml	**Instrument ID**	: PEST2
Extraction Method	: EPA 3510C	**GC Column**	: CLP-Pesticide
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: Y		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
12674-11-2	Aroclor 1016	ND	0.071	0.061	U
11104-28-2	Aroclor 1221	ND	0.071	0.061	U
11141-16-5	Aroclor 1232	ND	0.071	0.061	U
53469-21-9	Aroclor 1242	ND	0.071	0.061	U
12672-29-6	Aroclor 1248	ND	0.071	0.061	U
11097-69-1	Aroclor 1254	ND	0.071	0.061	U
11096-82-5	Aroclor 1260	ND	0.071	0.061	U
37324-23-5	Aroclor 1262	ND	0.071	0.061	U
11100-14-4	Aroclor 1268	ND	0.071	0.061	U
1336-36-3	PCBs, Total	ND	0.071	0.061	U

Results Summary
Form 1
Polychlorinated Biphenyls by GC

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2410579-08	**Date Collected**	: 02/27/24 10:25
Client ID	: MW-8S	**Date Received**	: 02/27/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 03/05/24 07:44
Sample Matrix	: WATER	**Date Extracted**	: 03/04/24
Analytical Method	: 1,8082A	**Dilution Factor**	: 1
Lab File ID	: P2240305a-09	**Analyst**	: MEO
Sample Amount	: 140 ml	**Instrument ID**	: PEST2
Extraction Method	: EPA 3510C	**GC Column**	: CLP-Pesticide
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: Y		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
12674-11-2	Aroclor 1016	ND	0.071	0.061	U
11104-28-2	Aroclor 1221	ND	0.071	0.061	U
11141-16-5	Aroclor 1232	ND	0.071	0.061	U
53469-21-9	Aroclor 1242	ND	0.071	0.061	U
12672-29-6	Aroclor 1248	ND	0.071	0.061	U
11097-69-1	Aroclor 1254	ND	0.071	0.061	U
11096-82-5	Aroclor 1260	ND	0.071	0.061	U
37324-23-5	Aroclor 1262	ND	0.071	0.061	U
11100-14-4	Aroclor 1268	ND	0.071	0.061	U
1336-36-3	PCBs, Total	ND	0.071	0.061	U

Results Summary
Form 1
Polychlorinated Biphenyls by GC

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2410579-09	**Date Collected**	: 02/26/24 00:00
Client ID	: DUP	**Date Received**	: 02/27/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 03/05/24 09:18
Sample Matrix	: WATER	**Date Extracted**	: 03/04/24
Analytical Method	: 1,8082A	**Dilution Factor**	: 1
Lab File ID	: P2240305a-19	**Analyst**	: MEO
Sample Amount	: 140 ml	**Instrument ID**	: PEST2
Extraction Method	: EPA 3510C	**GC Column**	: CLP-Pesticide
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: Y		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
12674-11-2	Aroclor 1016	ND	0.071	0.061	U
11104-28-2	Aroclor 1221	ND	0.071	0.061	U
11141-16-5	Aroclor 1232	ND	0.071	0.061	U
53469-21-9	Aroclor 1242	ND	0.071	0.061	U
11096-82-5	Aroclor 1260	ND	0.071	0.061	U
37324-23-5	Aroclor 1262	ND	0.071	0.061	U
11100-14-4	Aroclor 1268	ND	0.071	0.061	U

Results Summary
Form 1
Polychlorinated Biphenyls by GC

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2410579-09	**Date Collected**	: 02/26/24 00:00
Client ID	: DUP	**Date Received**	: 02/27/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 03/05/24 09:18
Sample Matrix	: WATER	**Date Extracted**	: 03/04/24
Analytical Method	: 1,8082A	**Dilution Factor**	: 1
Lab File ID	: P2240305a-19	**Analyst**	: MEO
Sample Amount	: 140 ml	**Instrument ID**	: PEST2
Extraction Method	: EPA 3510C	**GC Column**	: CLP-PesticideII
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: Y		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
12672-29-6	Aroclor 1248	ND	0.071	0.061	U
11097-69-1	Aroclor 1254	ND	0.071	0.061	U
1336-36-3	PCBs, Total	ND	0.071	0.061	U

Results Summary
Form 1
Polychlorinated Biphenyls by GC

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2410579-10	**Date Collected**	: 02/27/24 09:15
Client ID	: EB	**Date Received**	: 02/27/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 03/05/24 09:28
Sample Matrix	: WATER	**Date Extracted**	: 03/04/24
Analytical Method	: 1,8082A	**Dilution Factor**	: 1
Lab File ID	: P2240305a-20	**Analyst**	: MEO
Sample Amount	: 140 ml	**Instrument ID**	: PEST2
Extraction Method	: EPA 3510C	**GC Column**	: CLP-Pesticide
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: Y		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
12674-11-2	Aroclor 1016	ND	0.071	0.061	U
11104-28-2	Aroclor 1221	ND	0.071	0.061	U
11141-16-5	Aroclor 1232	ND	0.071	0.061	U
53469-21-9	Aroclor 1242	ND	0.071	0.061	U
12672-29-6	Aroclor 1248	ND	0.071	0.061	U
11097-69-1	Aroclor 1254	ND	0.071	0.061	U
11096-82-5	Aroclor 1260	ND	0.071	0.061	U
37324-23-5	Aroclor 1262	ND	0.071	0.061	U
11100-14-4	Aroclor 1268	ND	0.071	0.061	U
1336-36-3	PCBs, Total	ND	0.071	0.061	U

Results Summary
Form 1
Polychlorinated Biphenyls by GC

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: WG1892017-1	**Date Collected**	: NA
Client ID	: WG1892017-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 03/05/24 07:16
Sample Matrix	: WATER	**Date Extracted**	: 03/04/24
Analytical Method	: 1,8082A	**Dilution Factor**	: 1
Lab File ID	: P2240305a-06	**Analyst**	: MEO
Sample Amount	: 140 ml	**Instrument ID**	: PEST2
Extraction Method	: EPA 3510C	**GC Column**	: CLP-Pesticide
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: Y		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
12674-11-2	Aroclor 1016	ND	0.071	0.061	U
11104-28-2	Aroclor 1221	ND	0.071	0.061	U
11141-16-5	Aroclor 1232	ND	0.071	0.061	U
53469-21-9	Aroclor 1242	ND	0.071	0.061	U
12672-29-6	Aroclor 1248	ND	0.071	0.061	U
11096-82-5	Aroclor 1260	ND	0.071	0.061	U
37324-23-5	Aroclor 1262	ND	0.071	0.061	U
11100-14-4	Aroclor 1268	ND	0.071	0.061	U

Results Summary
Form 1
Polychlorinated Biphenyls by GC

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: WG1892017-1	**Date Collected**	: NA
Client ID	: WG1892017-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 03/05/24 07:16
Sample Matrix	: WATER	**Date Extracted**	: 03/04/24
Analytical Method	: 1,8082A	**Dilution Factor**	: 1
Lab File ID	: P2240305a-06	**Analyst**	: MEO
Sample Amount	: 140 ml	**Instrument ID**	: PEST2
Extraction Method	: EPA 3510C	**GC Column**	: CLP-PesticideII
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: Y		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
11097-69-1	Aroclor 1254	ND	0.071	0.061	U
1336-36-3	PCBs, Total	ND	0.071	0.061	U

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240305a\
Data File : P2240305a-09.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 05 Mar 2024 7:44 am
Operator : pest2:meo
Sample : L2410579-08,42,, p
Misc : wg1892200,WG1892017,ical20902
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Mar 05 08:49:14 2024
Quant Method : I:\PCB\Pest2\2024\240305A\P2_pcb_02_29_24_LVI_ugL_ICAL20902.m
Quant Title : pcb
QLast Update : Thu Feb 29 16:00:47 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240305a\P2240305a-02.D
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards							
1) i	1660_1br2nb	1.165	1.233	222.4E6	265.0E6	25.000	25.000
	Standard Area 1 : #1 = 228178279				Recovery =	97.47%	
	Standard Area 1 : #2 = 242790109				Recovery =	109.15%	
14) i	2154_1br2nb	1.165	1.233	222.4E6	265.0E6	25.000	25.000
23) i	4268_1br2nb	1.165	1.233	222.4E6	265.0E6	25.000	25.000
34) i	1248_1br2nb	1.165	1.233	222.4E6	265.0E6	25.000	25.000
40) i	3262_1br2nb	1.165	1.233	222.4E6	265.0E6	25.000	25.000
System Monitoring Compounds							
2) s	2,4,5,6-Tetr	1.451	1.609	172.5E6	197.4E6	14.798	15.128
	Spiked Amount 20.000	Range 30 - 150			Recovery =	73.99%	75.64%
3) s	Decachlorobi	4.024	4.546	156.5E6	126.3E6	18.534M4	17.968M4
	Spiked Amount 20.000	Range 30 - 150			Recovery =	92.67%	89.84%
Target Compounds							
4) l1	1016-1	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-2	0.000	0.000	0	0	N.D. d	N.D. d
6) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
8) l1	1016-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1016-1			0	0	N.D.	N.D.
Average	1016-1					0.000	0.000
9) l2	1260-1	0.000	0.000	0	0	N.D. d	N.D. d
10) l2	1260-2	0.000	0.000	0	0	N.D. d	N.D. d
11) l2	1260-3	0.000	0.000	0	0	N.D. d	N.D. d
12) l2	1260-4	0.000	0.000	0	0	N.D. d	N.D. d
13) l2	1260-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1260-1			0	0	N.D.	N.D.
Average	1260-1					0.000	0.000

Data Path : I:\PCB\Pest2\2024\240305a\
Data File : P2240305a-09.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 05 Mar 2024 7:44 am
Operator : pest2:meo
Sample : L2410579-08,42,, p
Misc : wg1892200,WG1892017,ical20902
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Mar 05 08:49:14 2024
Quant Method : I:\PCB\Pest2\2024\240305A\P2_pcb_02_29_24_LVI_ugL_ICAL20902.m
Quant Title : pcb
QLast Update : Thu Feb 29 16:00:47 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240305a\P2240305a-02.D
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
15) l3 1221-2	0.000	0.000	0	0	N.D. d	N.D. d
16) l3 1221-3	0.000	0.000	0	0	N.D. d	N.D. d
17) l3 1221-4	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1221-2			0	0	N.D.	N.D.
Average 1221-2					0.000	0.000
18) l4 1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4 1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4 1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4 1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4 1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1254-1			0	0	N.D.	N.D.
Average 1254-1					0.000	0.000
24) l6 1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6 1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6 1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6 1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6 1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1242-1			0	0	N.D.	N.D.
Average 1242-1					0.000	0.000
29) l9 1268-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l9 1268-2	0.000	0.000	0	0	N.D. d	N.D. d
31) l9 1268-3	0.000	0.000	0	0	N.D. d	N.D. d
32) l9 1268-4	0.000	0.000	0	0	N.D.	N.D.
33) l9 1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1268-1			0	0	N.D.	N.D.
Average 1268-1					0.000	0.000
35) l7 1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7 1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7 1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7 1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7 1248-5	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240305a\
Data File : P2240305a-09.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 05 Mar 2024 7:44 am
Operator : pest2:meo
Sample : L2410579-08,42,, p
Misc : wg1892200,WG1892017,ical20902
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Mar 05 08:49:14 2024
Quant Method : I:\PCB\Pest2\2024\240305A\P2_pcb_02_29_24_LVI_ugL_ICAL20902.m
Quant Title : pcb
QLast Update : Thu Feb 29 16:00:47 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240305a\P2240305a-02.D
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Sum 1248-1			0	0	N.D.	N.D.
Average 1248-1					0.000	0.000
41) l5 1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5 1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5 1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5 1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5 1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1232-1			0	0	N.D.	N.D.
Average 1232-1					0.000	0.000
46) l8 1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8 1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8 1262-3	0.000	0.000	0	0	N.D. d	N.D. d
49) l8 1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50) l8 1262-5	0.000	0.000	0	0	N.D.	N.D.
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument						
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000

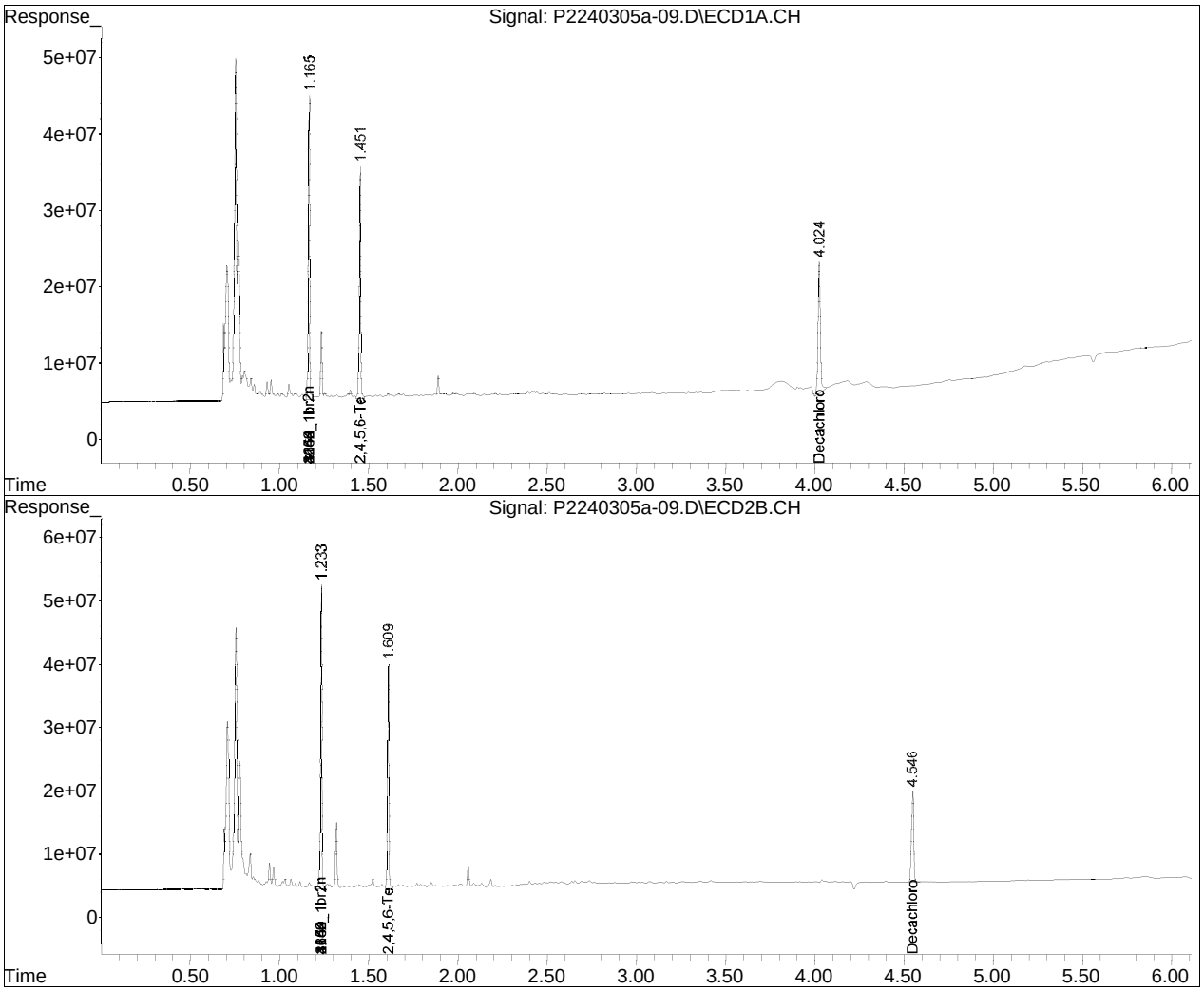
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.

Sub List : Default - All compounds listedP2240305a-02.D••

Data Path : I:\PCB\Pest2\2024\240305a\
Data File : P2240305a-09.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 05 Mar 2024 7:44 am
Operator : pest2:meo
Sample : L2410579-08,42,, p
Misc : wg1892200,WG1892017,ical20902
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Mar 05 08:49:14 2024
Quant Method : I:\PCB\Pest2\2024\240305A\P2_pcb_02_29_24_LVI_ugL_ICAL20902.m
Quant Title : pcb
QLast Update : Thu Feb 29 16:00:47 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

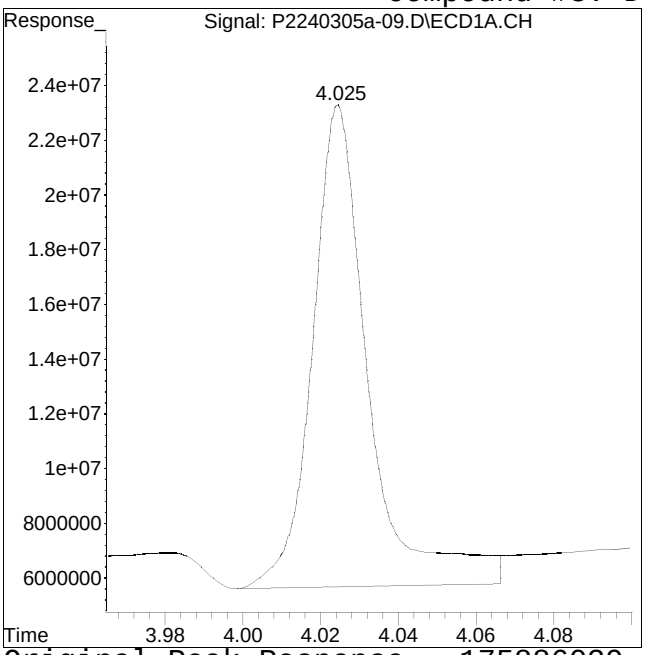
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

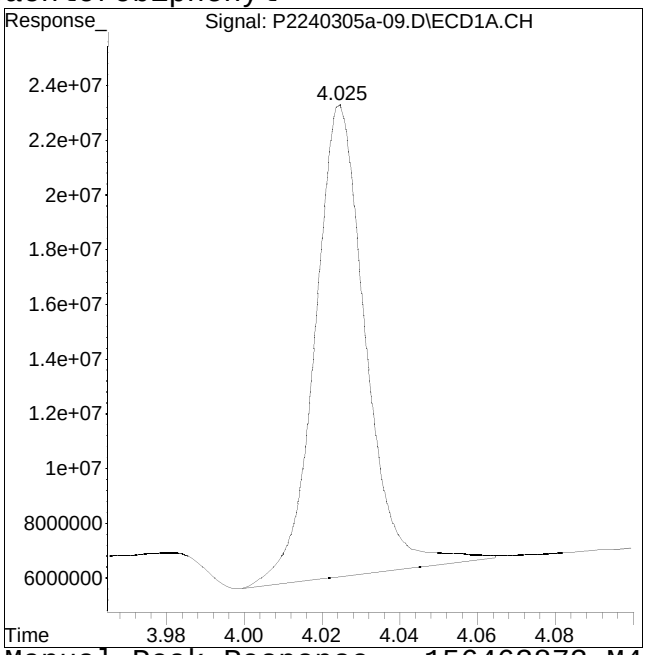


Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240305a\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240305a-09.D Operator : pest2:meo
Date Inj'd : 3/5/2024 7:44 am Instrument : Pest 2
Sample : L2410579-08,42,, p Quant Date : 3/5/2024 8:45 am

Compound #3: Decachlorobiphenyl



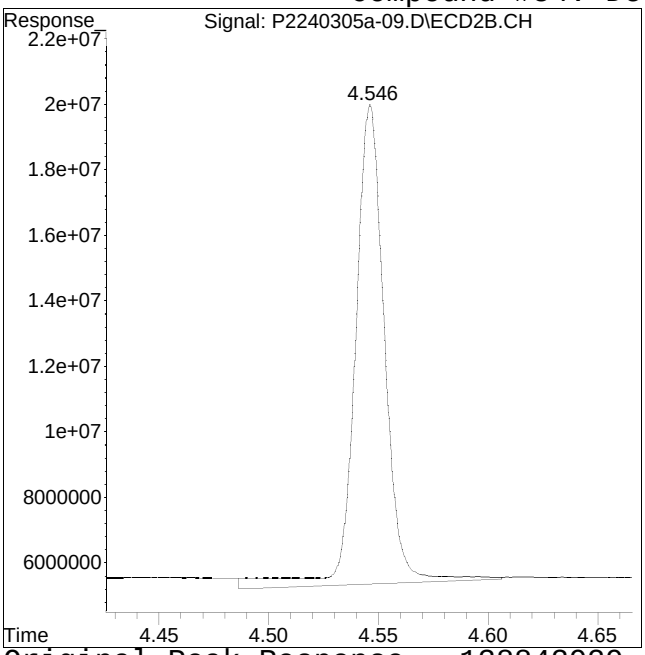


Original Peak Response = 175886039 Manual Peak Response = 156463873 M4
M4 = Poor automated baseline construction.

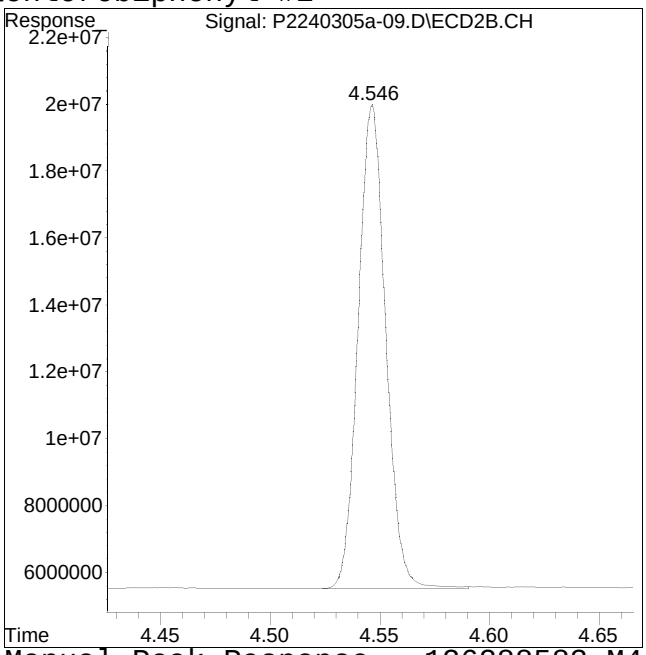
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240305a\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240305a-09.D Operator : pest2:meo
Date Inj'd : 3/5/2024 7:44 am Instrument : Pest 2
Sample : L2410579-08,42,, p Quant Date : 3/5/2024 8:45 am

Compound #54: Decachlorobiphenyl #2



Original Peak Response = 138842929



Manual Peak Response = 126288583 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240305a\
Data File : P2240305a-12.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 05 Mar 2024 8:12 am
Operator : pest2:meo
Sample : L2410579-01,42,,
Misc : wg1892200,WG1892017,ical20902
ALS Vial : 12 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Mar 05 08:51:25 2024
Quant Method : I:\PCB\Pest2\2024\240305A\P2_pcb_02_29_24_LVI_ugL_ICAL20902.m
Quant Title : pcb
QLast Update : Thu Feb 29 16:00:47 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240305a\P2240305a-02.D
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards							
1) i	1660_1br2nb	1.166	1.234	219.5E6	283.4E6	25.000M4	25.000
	Standard Area 1 : #1 = 228178279				Recovery =	96.21%	
	Standard Area 1 : #2 = 242790109				Recovery =	116.72%	
14) i	2154_1br2nb	1.166	1.234	219.5E6	283.4E6	25.000M4	25.000
23) i	4268_1br2nb	1.166	1.234	219.5E6	283.4E6	25.000M4	25.000
34) i	1248_1br2nb	1.166	1.234	219.5E6	283.4E6	25.000M4	25.000
40) i	3262_1br2nb	1.166	1.234	219.5E6	283.4E6	25.000M4	25.000
System Monitoring Compounds							
2) s	2,4,5,6-Tetr	1.452	1.610	160.6E6	191.4E6	13.954M4	13.713
	Spiked Amount 20.000	Range 30 - 150			Recovery =	69.77%	68.56%
3) s	Decachlorobi	4.025	4.547	140.7E6	112.7E6	16.884M4	14.988
	Spiked Amount 20.000	Range 30 - 150			Recovery =	84.42%	74.94%
Target Compounds							
4) l1	1016-1	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-2	0.000	0.000	0	0	N.D. d	N.D. d
6) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
8) l1	1016-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1016-1			0	0	N.D.	N.D.
	Average 1016-1					0.000	0.000
9) l2	1260-1	0.000	0.000	0	0	N.D. d	N.D. d
10) l2	1260-2	0.000	0.000	0	0	N.D. d	N.D. d
11) l2	1260-3	0.000	0.000	0	0	N.D. d	N.D. d
12) l2	1260-4	0.000	0.000	0	0	N.D. d	N.D. d
13) l2	1260-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1260-1			0	0	N.D.	N.D.
	Average 1260-1					0.000	0.000
15) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d
16) l3	1221-3	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PCB\Pest2\2024\240305a\
Data File : P2240305a-12.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 05 Mar 2024 8:12 am
Operator : pest2:meo
Sample : L2410579-01,42,,
Misc : wg1892200,WG1892017,ical20902
ALS Vial : 12 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Mar 05 08:51:25 2024
Quant Method : I:\PCB\Pest2\2024\240305A\P2_pcb_02_29_24_LVI_ugL_ICAL20902.m
Quant Title : pcb
QLast Update : Thu Feb 29 16:00:47 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240305a\P2240305a-02.D
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
17) l3 1221-4	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1221-2			0	0	N.D.	N.D.
Average 1221-2					0.000	0.000
18) l4 1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4 1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4 1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4 1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4 1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1254-1			0	0	N.D.	N.D.
Average 1254-1					0.000	0.000
24) l6 1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6 1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6 1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6 1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6 1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1242-1			0	0	N.D.	N.D.
Average 1242-1					0.000	0.000
29) l9 1268-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l9 1268-2	0.000	0.000	0	0	N.D. d	N.D. d
31) l9 1268-3	0.000	0.000	0	0	N.D. d	N.D. d
32) l9 1268-4	0.000	0.000	0	0	N.D. d	N.D. d
33) l9 1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1268-1			0	0	N.D.	N.D.
Average 1268-1					0.000	0.000
35) l7 1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7 1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7 1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7 1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7 1248-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1248-1			0	0	N.D.	N.D.
Average 1248-1					0.000	0.000
41) l5 1232-1	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PCB\Pest2\2024\240305a\
Data File : P2240305a-12.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 05 Mar 2024 8:12 am
Operator : pest2:meo
Sample : L2410579-01,42,,
Misc : wg1892200,WG1892017,ical20902
ALS Vial : 12 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Mar 05 08:51:25 2024
Quant Method : I:\PCB\Pest2\2024\240305A\P2_pcb_02_29_24_LVI_ugL_ICAL20902.m
Quant Title : pcb
QLast Update : Thu Feb 29 16:00:47 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240305a\P2240305a-02.D
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
42) l5 1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5 1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5 1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5 1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1232-1			0	0	N.D.	N.D.
Average 1232-1					0.000	0.000
46) l8 1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8 1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8 1262-3	0.000	0.000	0	0	N.D. d	N.D. d
49) l8 1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50) l8 1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument						
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000

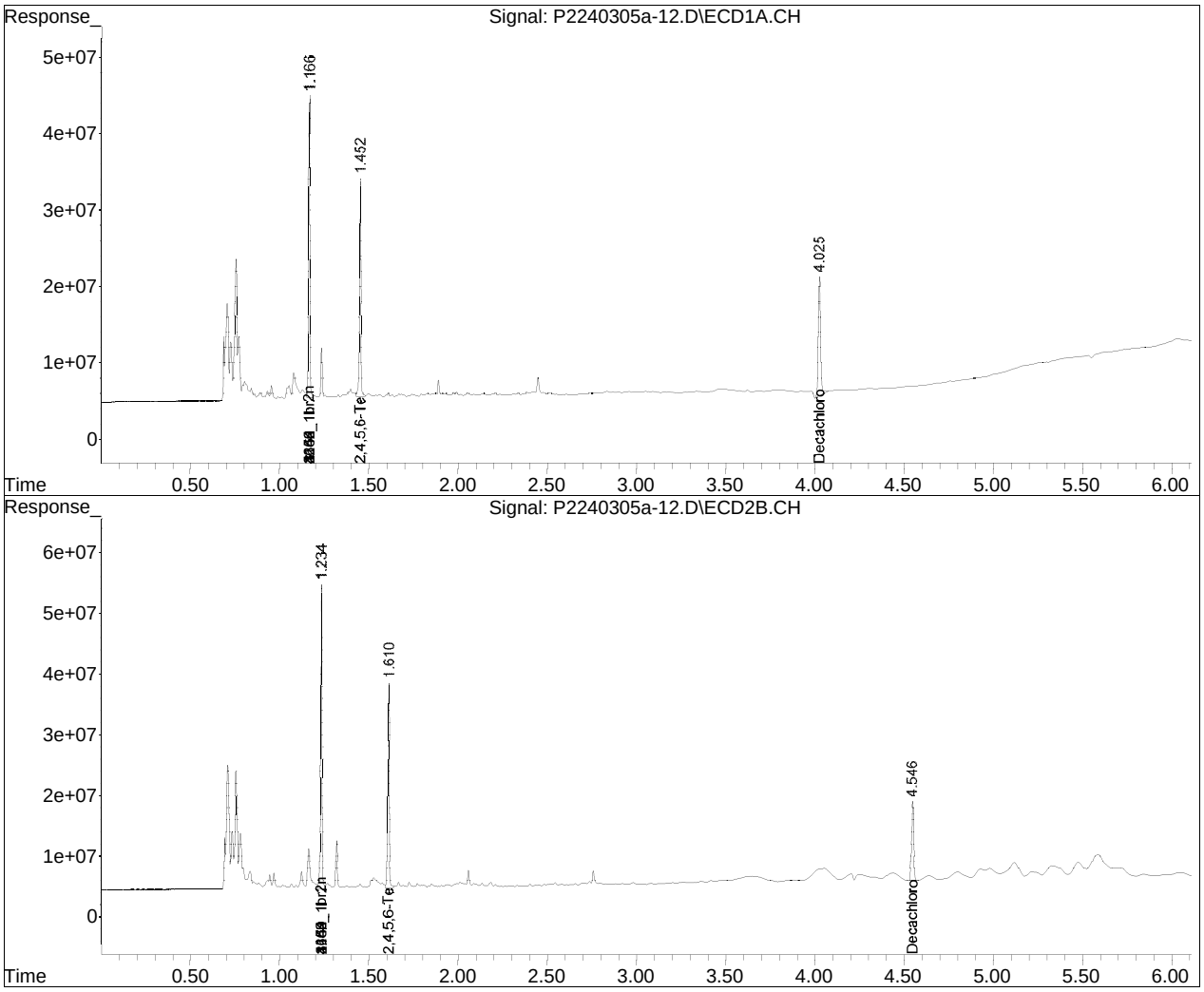
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listedP2240305a-02.D••

Data Path : I:\PCB\Pest2\2024\240305a\
Data File : P2240305a-12.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 05 Mar 2024 8:12 am
Operator : pest2:meo
Sample : L2410579-01,42,,
Misc : wg1892200,WG1892017,ical20902
ALS Vial : 12 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Mar 05 08:51:25 2024
Quant Method : I:\PCB\Pest2\2024\240305A\P2_pcb_02_29_24_LVI_ugL_ICAL20902.m
Quant Title : pcb
QLast Update : Thu Feb 29 16:00:47 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

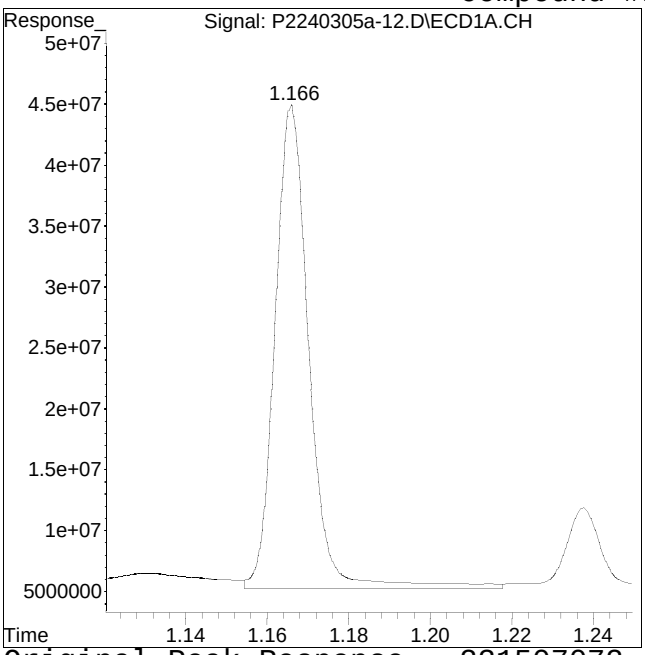
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

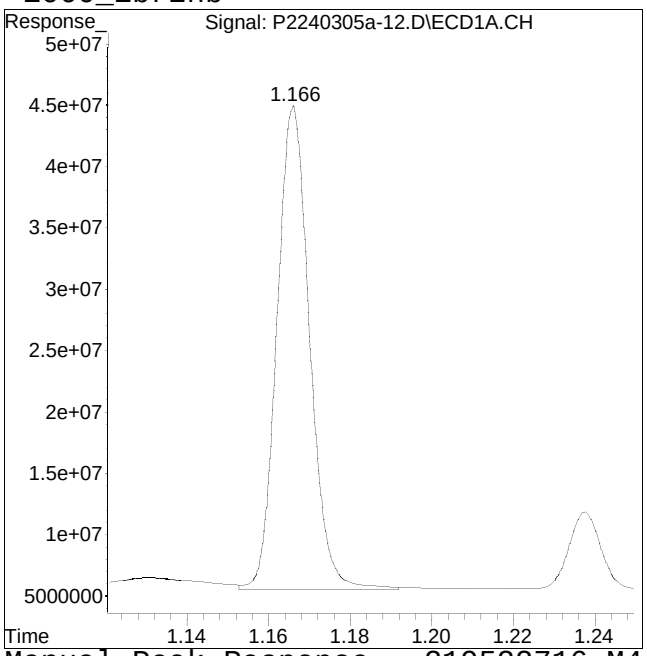


Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240305a\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240305a-12.D Operator : pest2:meo
Date Inj'd : 3/5/2024 8:12 am Instrument : Pest 2
Sample : L2410579-01,42,, Quant Date : 3/5/2024 8:45 am

Compound #1: 1660_1br2nb



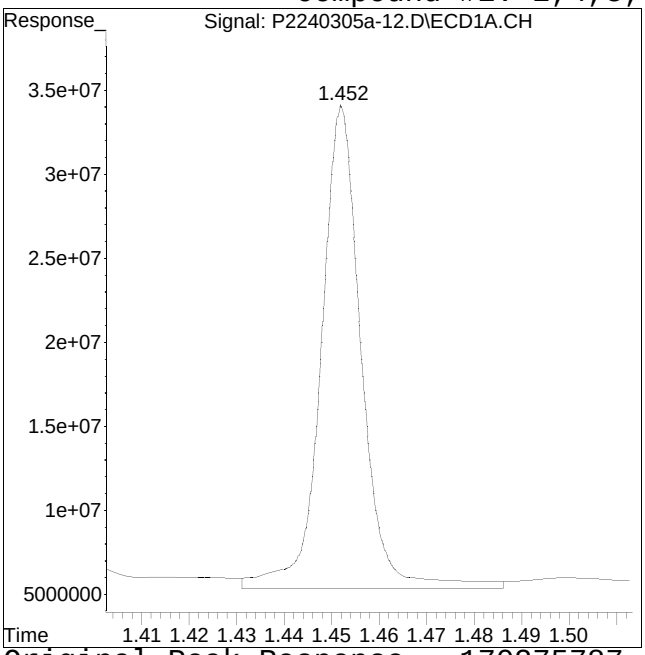


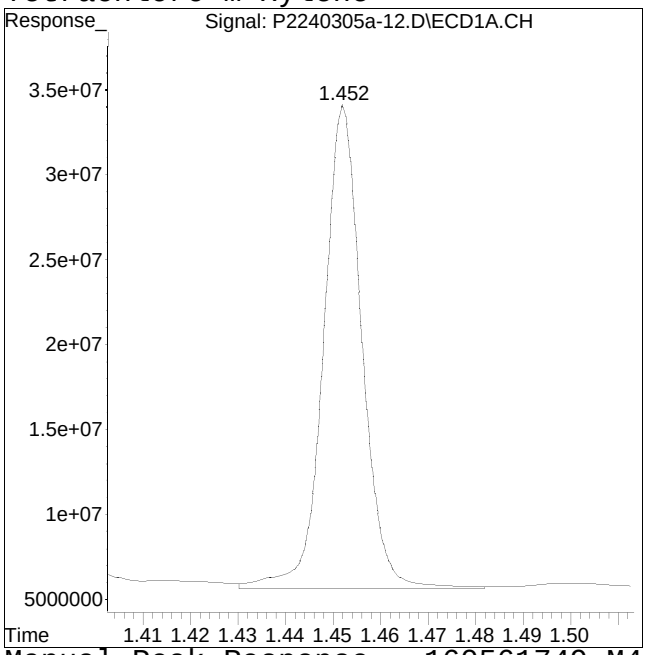
Original Peak Response = 231507072 Manual Peak Response = 219522716 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240305a\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240305a-12.D Operator : pest2:meo
Date Inj'd : 3/5/2024 8:12 am Instrument : Pest 2
Sample : L2410579-01,42,, Quant Date : 3/5/2024 8:45 am

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



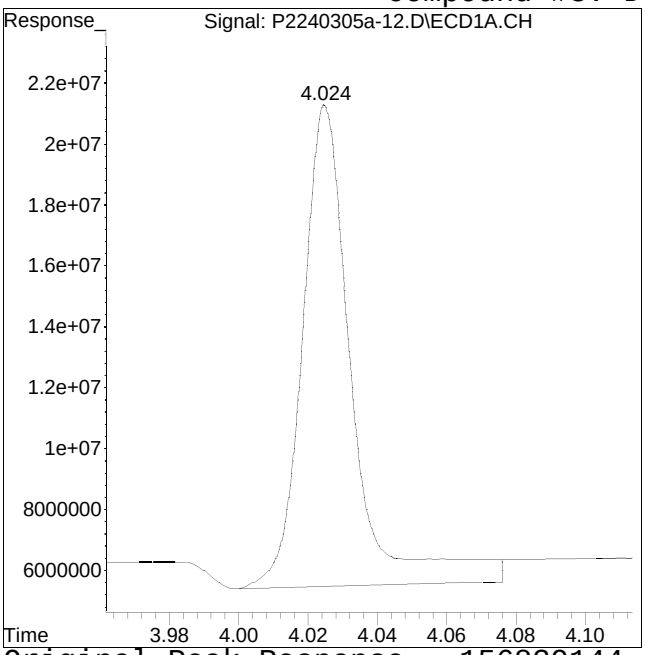


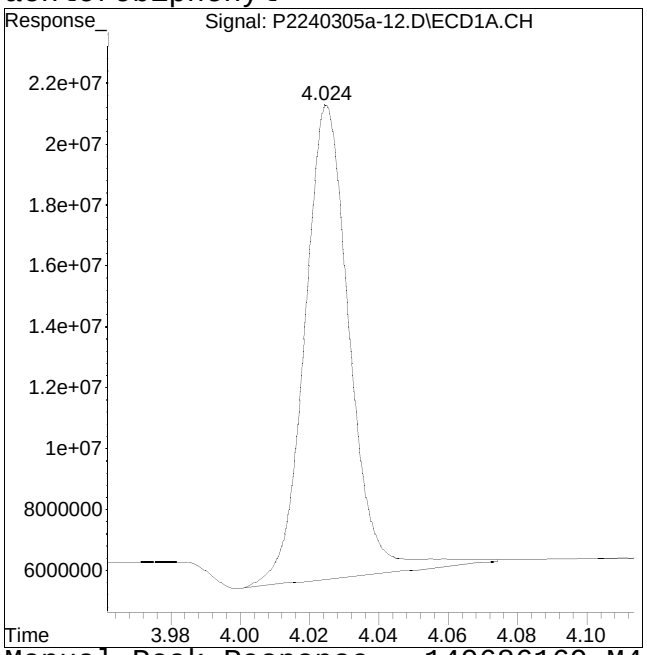
Original Peak Response = 170275787 Manual Peak Response = 160561749 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240305a\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240305a-12.D Operator : pest2:meo
Date Inj'd : 3/5/2024 8:12 am Instrument : Pest 2
Sample : L2410579-01,42,, Quant Date : 3/5/2024 8:45 am

Compound #3: Decachlorobiphenyl





Original Peak Response = 156839144 Manual Peak Response = 140686169 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240305a\
Data File : P2240305a-13.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 05 Mar 2024 8:22 am
Operator : pest2:meo
Sample : L2410579-02,42,,
Misc : wg1892200,WG1892017,ical20902
ALS Vial : 13 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Mar 05 08:52:01 2024
Quant Method : I:\PCB\Pest2\2024\240305A\P2_pcb_02_29_24_LVI_ugL_ICAL20902.m
Quant Title : pcb
QLast Update : Thu Feb 29 16:00:47 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240305a\P2240305a-02.D
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards							
1) i	1660_1br2nb	1.166	1.234	213.6E6	258.6E6	25.000M4	25.000
	Standard Area 1 : #1 = 228178279				Recovery =	93.62%	
	Standard Area 1 : #2 = 242790109				Recovery =	106.51%	
14) i	2154_1br2nb	1.166	1.234	213.6E6	258.6E6	25.000M4	25.000
23) i	4268_1br2nb	1.166	1.234	213.6E6	258.6E6	25.000M4	25.000
34) i	1248_1br2nb	1.166	1.234	213.6E6	258.6E6	25.000M4	25.000
40) i	3262_1br2nb	1.166	1.234	213.6E6	258.6E6	25.000M4	25.000
System Monitoring Compounds							
2) s	2,4,5,6-Tetr	1.452	1.610	169.9E6	193.0E6	15.177	15.155
	Spiked Amount 20.000	Range 30 - 150			Recovery =	75.89%	75.77%
3) s	Decachlorobi	4.025	4.546	151.4E6	128.3E6	18.668M4	18.702M4
	Spiked Amount 20.000	Range 30 - 150			Recovery =	93.34%	93.51%
Target Compounds							
4) l1	1016-1	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-2	0.000	0.000	0	0	N.D. d	N.D. d
6) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
8) l1	1016-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1016-1			0	0	N.D.	N.D.
Average	1016-1					0.000	0.000
9) l2	1260-1	0.000	0.000	0	0	N.D. d	N.D. d
10) l2	1260-2	0.000	0.000	0	0	N.D. d	N.D. d
11) l2	1260-3	0.000	0.000	0	0	N.D. d	N.D. d
12) l2	1260-4	0.000	0.000	0	0	N.D. d	N.D. d
13) l2	1260-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1260-1			0	0	N.D.	N.D.
Average	1260-1					0.000	0.000

Data Path : I:\PCB\Pest2\2024\240305a\
Data File : P2240305a-13.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 05 Mar 2024 8:22 am
Operator : pest2:meo
Sample : L2410579-02,42,,
Misc : wg1892200,WG1892017,ical20902
ALS Vial : 13 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Mar 05 08:52:01 2024
Quant Method : I:\PCB\Pest2\2024\240305A\P2_pcb_02_29_24_LVI_ugL_ICAL20902.m
Quant Title : pcb
QLast Update : Thu Feb 29 16:00:47 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240305a\P2240305a-02.D
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
15) l3 1221-2	0.000	0.000	0	0	N.D. d	N.D. d
16) l3 1221-3	0.000	0.000	0	0	N.D. d	N.D. d
17) l3 1221-4	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1221-2			0	0	N.D.	N.D.
Average 1221-2					0.000	0.000
18) l4 1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4 1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4 1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4 1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4 1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1254-1			0	0	N.D.	N.D.
Average 1254-1					0.000	0.000
24) l6 1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6 1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6 1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6 1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6 1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1242-1			0	0	N.D.	N.D.
Average 1242-1					0.000	0.000
29) l9 1268-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l9 1268-2	0.000	0.000	0	0	N.D. d	N.D. d
31) l9 1268-3	0.000	0.000	0	0	N.D. d	N.D. d
32) l9 1268-4	0.000	0.000	0	0	N.D. d	N.D. d
33) l9 1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1268-1			0	0	N.D.	N.D.
Average 1268-1					0.000	0.000
35) l7 1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7 1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7 1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7 1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7 1248-5	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240305a\
Data File : P2240305a-13.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 05 Mar 2024 8:22 am
Operator : pest2:meo
Sample : L2410579-02,42,,
Misc : wg1892200,WG1892017,ical20902
ALS Vial : 13 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Mar 05 08:52:01 2024
Quant Method : I:\PCB\Pest2\2024\240305A\P2_pcb_02_29_24_LVI_ugL_ICAL20902.m
Quant Title : pcb
QLast Update : Thu Feb 29 16:00:47 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240305a\P2240305a-02.D
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Sum 1248-1			0	0	N.D.	N.D.
Average 1248-1					0.000	0.000
41) l5 1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5 1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5 1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5 1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5 1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1232-1			0	0	N.D.	N.D.
Average 1232-1					0.000	0.000
46) l8 1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8 1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8 1262-3	0.000	0.000	0	0	N.D. d	N.D. d
49) l8 1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50) l8 1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument						
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000

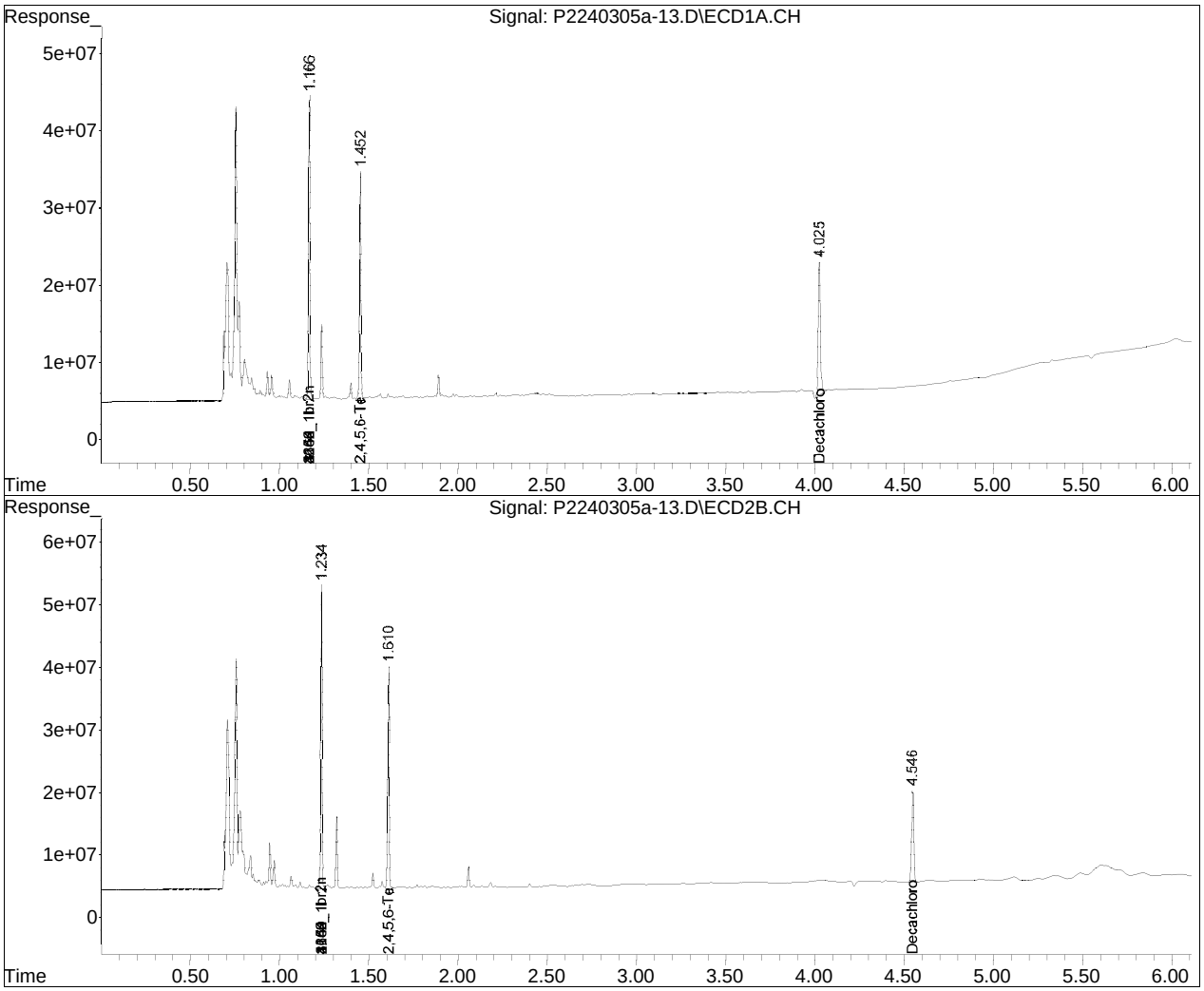
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.

Sub List : Default - All compounds listedP2240305a-02.D••

Data Path : I:\PCB\Pest2\2024\240305a\
Data File : P2240305a-13.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 05 Mar 2024 8:22 am
Operator : pest2:meo
Sample : L2410579-02,42,,
Misc : wg1892200,WG1892017,ical20902
ALS Vial : 13 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Mar 05 08:52:01 2024
Quant Method : I:\PCB\Pest2\2024\240305A\P2_pcb_02_29_24_LVI_ugL_ICAL20902.m
Quant Title : pcb
QLast Update : Thu Feb 29 16:00:47 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

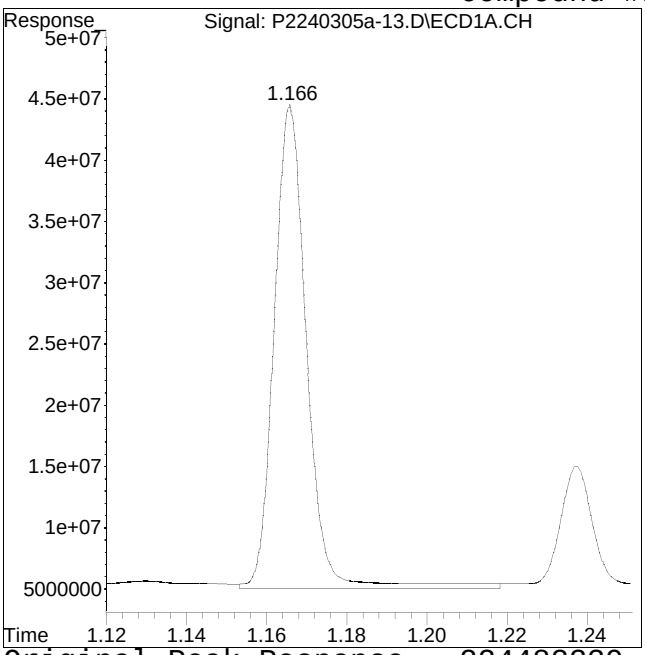
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

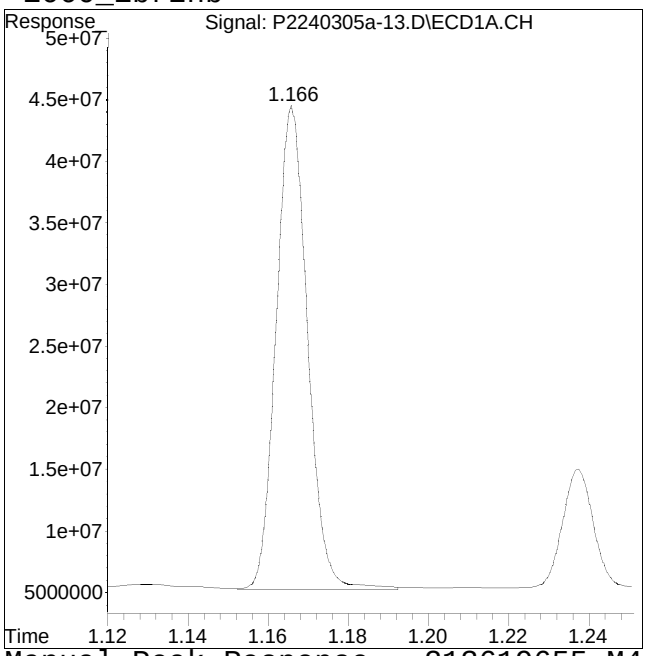


Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240305a\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240305a-13.D Operator : pest2:meo
Date Inj'd : 3/5/2024 8:22 am Instrument : Pest 2
Sample : L2410579-02,42,, Quant Date : 3/5/2024 8:45 am

Compound #1: 1660_1br2nb



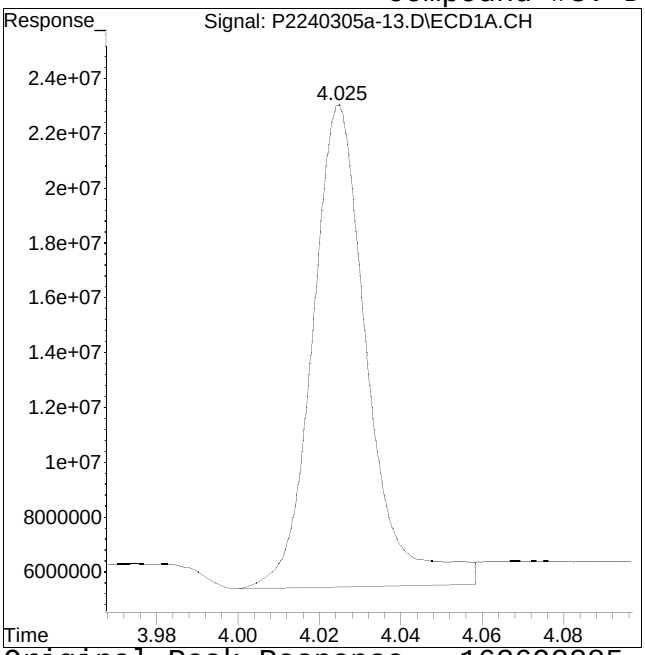


Original Peak Response = 224482339 Manual Peak Response = 213619655 M4
M4 = Poor automated baseline construction.

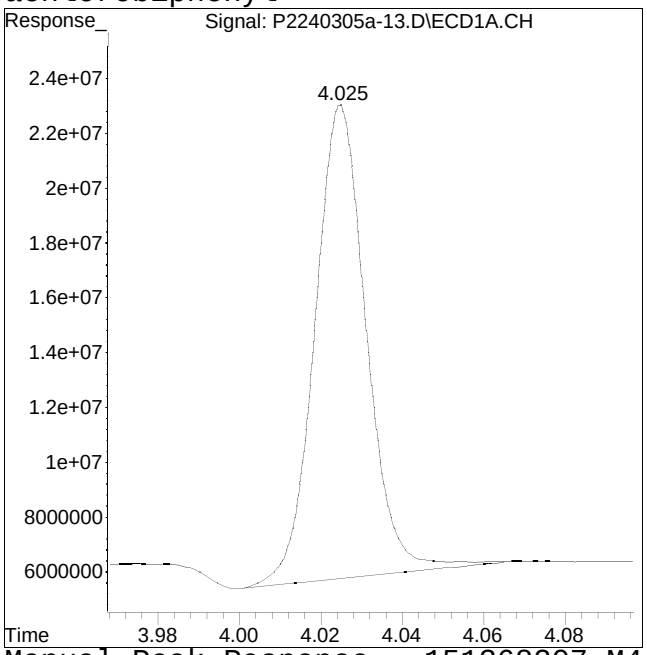
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240305a\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240305a-13.D Operator : pest2:meo
Date Inj'd : 3/5/2024 8:22 am Instrument : Pest 2
Sample : L2410579-02,42,, Quant Date : 3/5/2024 8:45 am

Compound #3: Decachlorobiphenyl



Original Peak Response = 163692385



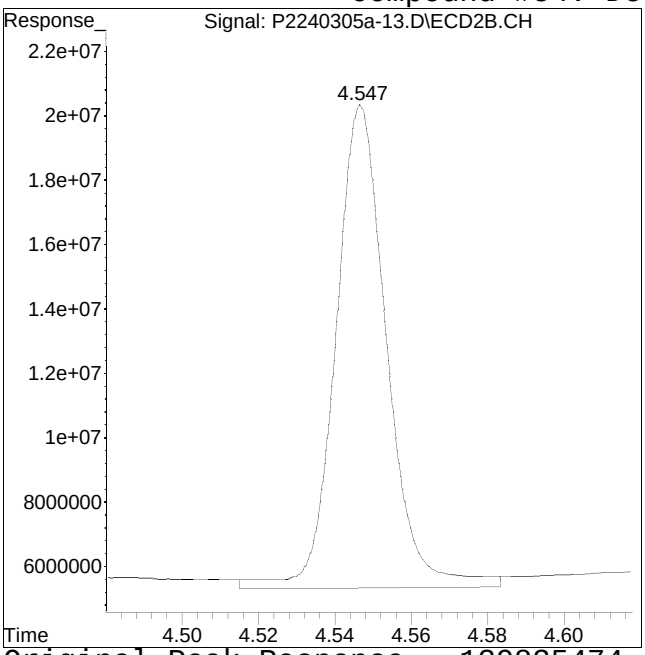
Manual Peak Response = 151368207 M4

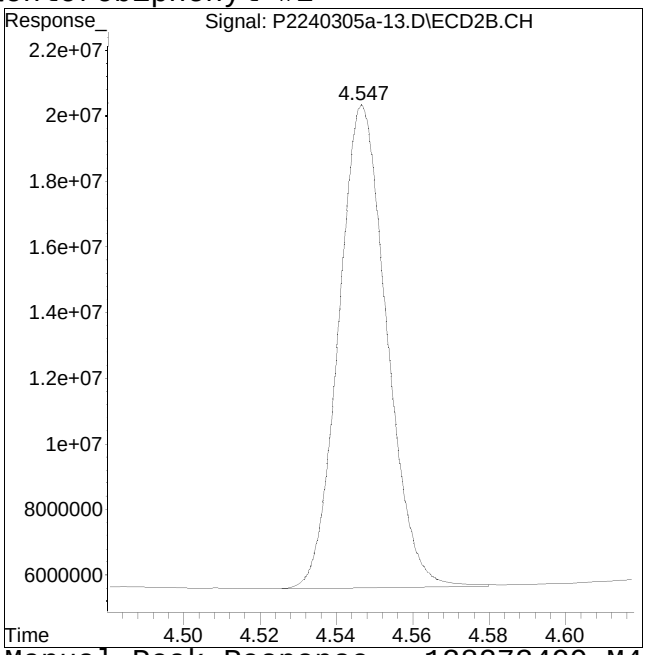
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240305a\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240305a-13.D Operator : pest2:meo
Date Inj'd : 3/5/2024 8:22 am Instrument : Pest 2
Sample : L2410579-02,42,, Quant Date : 3/5/2024 8:45 am

Compound #54: Decachlorobiphenyl #2





Original Peak Response = 139835474 Manual Peak Response = 128273499 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240305a\
Data File : P2240305a-14.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 05 Mar 2024 8:31 am
Operator : pest2:meo
Sample : L2410579-03,42,,
Misc : wg1892200,WG1892017,ical20902
ALS Vial : 14 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Mar 05 08:52:24 2024
Quant Method : I:\PCB\Pest2\2024\240305A\P2_pcb_02_29_24_LVI_ugL_ICAL20902.m
Quant Title : pcb
QLast Update : Thu Feb 29 16:00:47 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240305a\P2240305a-02.D
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards							
1) i	1660_1br2nb	1.166	1.235	224.3E6	277.6E6	25.000	25.000
	Standard Area 1 : #1 = 228178279				Recovery =	98.29%	
	Standard Area 1 : #2 = 242790109				Recovery =	114.32%	
14) i	2154_1br2nb	1.166	1.235	224.3E6	277.6E6	25.000	25.000
23) i	4268_1br2nb	1.166	1.235	224.3E6	277.6E6	25.000	25.000
34) i	1248_1br2nb	1.166	1.235	224.3E6	277.6E6	25.000	25.000
40) i	3262_1br2nb	1.166	1.235	224.3E6	277.6E6	25.000	25.000
System Monitoring Compounds							
2) s	2,4,5,6-Tetr	1.453	1.611	176.0E6	204.1E6	14.975	14.936
	Spiked Amount 20.000	Range 30 - 150			Recovery =	74.88%	74.68%
3) s	Decachlorobi	4.026	4.547	159.4E6	135.5E6	18.722M4	18.407M4
	Spiked Amount 20.000	Range 30 - 150			Recovery =	93.61%	92.03%
Target Compounds							
4) l1	1016-1	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-2	0.000	0.000	0	0	N.D. d	N.D. d
6) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
8) l1	1016-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1016-1			0	0	N.D.	N.D.
Average	1016-1					0.000	0.000
9) l2	1260-1	0.000	0.000	0	0	N.D. d	N.D. d
10) l2	1260-2	0.000	0.000	0	0	N.D. d	N.D. d
11) l2	1260-3	0.000	0.000	0	0	N.D. d	N.D. d
12) l2	1260-4	0.000	0.000	0	0	N.D. d	N.D. d
13) l2	1260-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1260-1			0	0	N.D.	N.D.
Average	1260-1					0.000	0.000

Data Path : I:\PCB\Pest2\2024\240305a\
Data File : P2240305a-14.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 05 Mar 2024 8:31 am
Operator : pest2:meo
Sample : L2410579-03,42,,
Misc : wg1892200,WG1892017,ical20902
ALS Vial : 14 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Mar 05 08:52:24 2024
Quant Method : I:\PCB\Pest2\2024\240305A\P2_pcb_02_29_24_LVI_ugL_ICAL20902.m
Quant Title : pcb
QLast Update : Thu Feb 29 16:00:47 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240305a\P2240305a-02.D
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
15) l3 1221-2	0.000	0.000	0	0	N.D. d	N.D. d
16) l3 1221-3	0.000	0.000	0	0	N.D. d	N.D. d
17) l3 1221-4	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1221-2			0	0	N.D.	N.D.
Average 1221-2					0.000	0.000
18) l4 1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4 1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4 1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4 1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4 1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1254-1			0	0	N.D.	N.D.
Average 1254-1					0.000	0.000
24) l6 1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6 1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6 1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6 1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6 1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1242-1			0	0	N.D.	N.D.
Average 1242-1					0.000	0.000
29) l9 1268-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l9 1268-2	0.000	0.000	0	0	N.D. d	N.D. d
31) l9 1268-3	0.000	0.000	0	0	N.D. d	N.D. d
32) l9 1268-4	0.000	0.000	0	0	N.D. d	N.D. d
33) l9 1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1268-1			0	0	N.D.	N.D.
Average 1268-1					0.000	0.000
35) l7 1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7 1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7 1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7 1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7 1248-5	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240305a\
Data File : P2240305a-14.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 05 Mar 2024 8:31 am
Operator : pest2:meo
Sample : L2410579-03,42,,
Misc : wg1892200,WG1892017,ical20902
ALS Vial : 14 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Mar 05 08:52:24 2024
Quant Method : I:\PCB\Pest2\2024\240305A\P2_pcb_02_29_24_LVI_ugL_ICAL20902.m
Quant Title : pcb
QLast Update : Thu Feb 29 16:00:47 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240305a\P2240305a-02.D
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Sum 1248-1			0	0	N.D.	N.D.
Average 1248-1					0.000	0.000
41) l5 1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5 1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5 1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5 1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5 1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1232-1			0	0	N.D.	N.D.
Average 1232-1					0.000	0.000
46) l8 1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8 1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8 1262-3	0.000	0.000	0	0	N.D. d	N.D. d
49) l8 1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50) l8 1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument						
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000

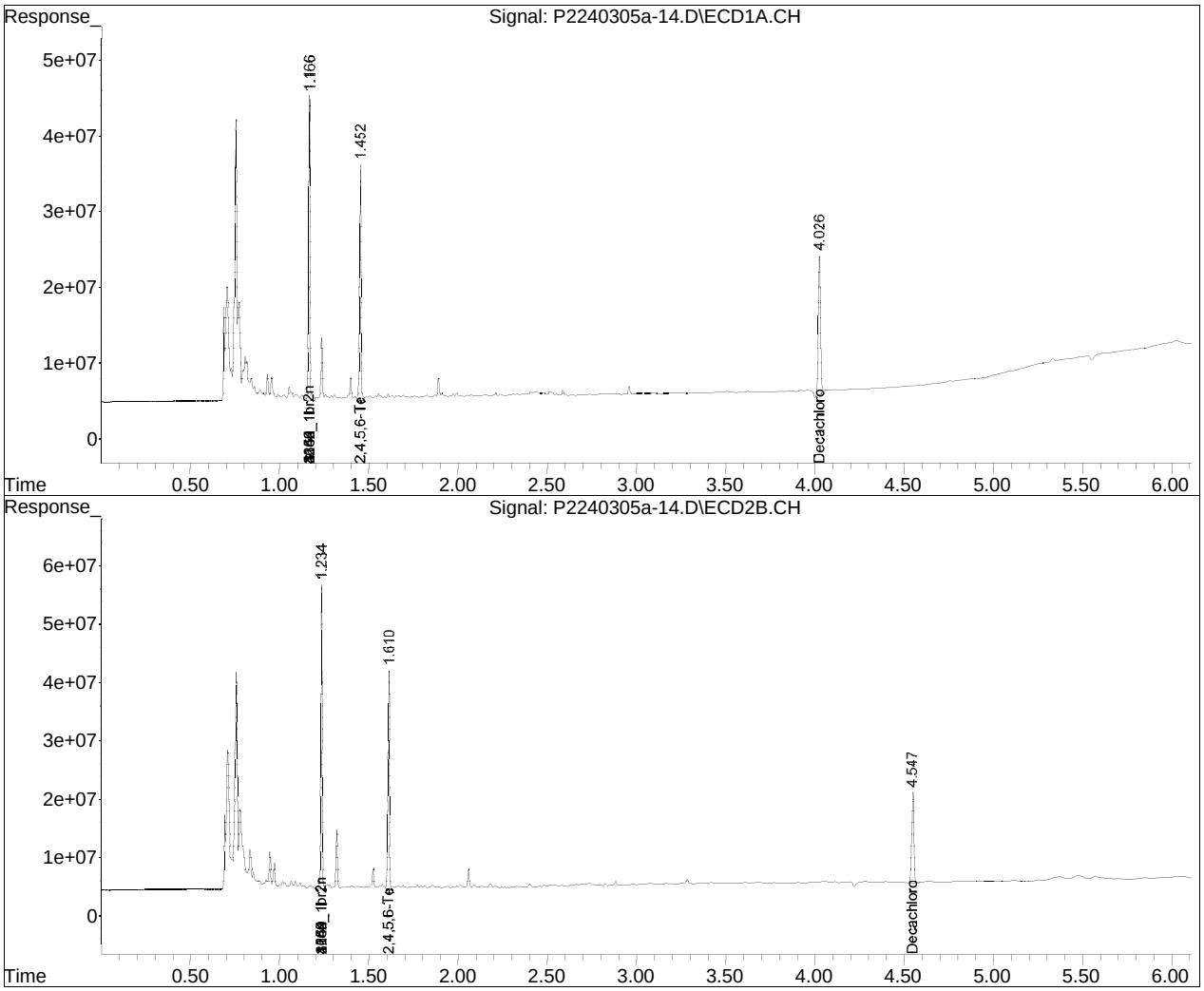
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.

Sub List : Default - All compounds listedP2240305a-02.D••

Data Path : I:\PCB\Pest2\2024\240305a\
Data File : P2240305a-14.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 05 Mar 2024 8:31 am
Operator : pest2:meo
Sample : L2410579-03,42,,
Misc : wg1892200,WG1892017,ical20902
ALS Vial : 14 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Mar 05 08:52:24 2024
Quant Method : I:\PCB\Pest2\2024\240305A\P2_pcb_02_29_24_LVI_ugL_ICAL20902.m
Quant Title : pcb
QLast Update : Thu Feb 29 16:00:47 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

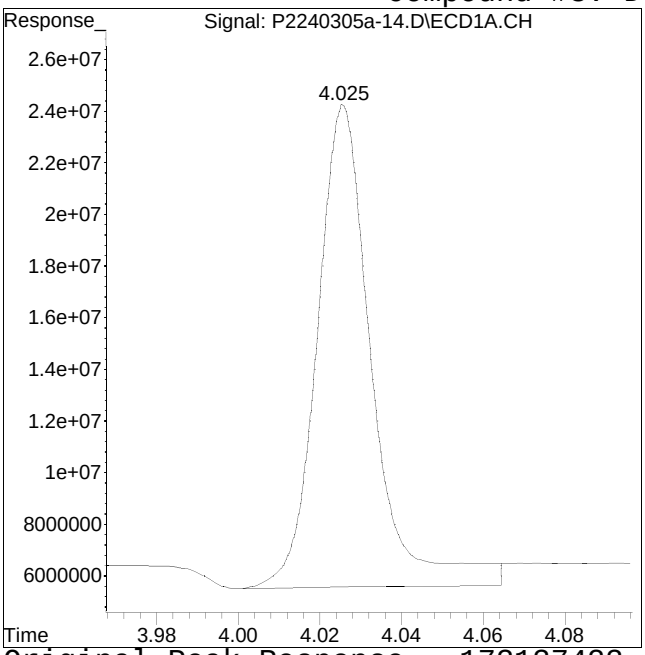
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



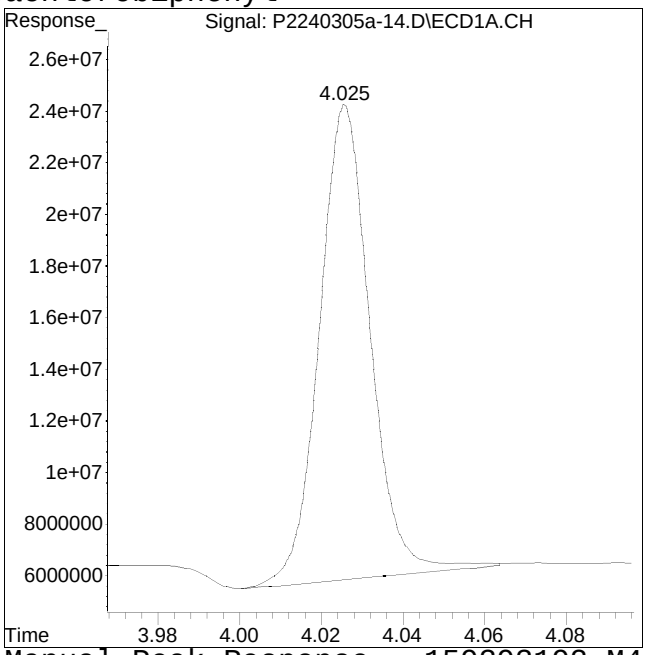
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240305a\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240305a-14.D Operator : pest2:meo
Date Inj'd : 3/5/2024 8:31 am Instrument : Pest 2
Sample : L2410579-03,42,, Quant Date : 3/5/2024 8:45 am

Compound #3: Decachlorobiphenyl



Original Peak Response = 173137423



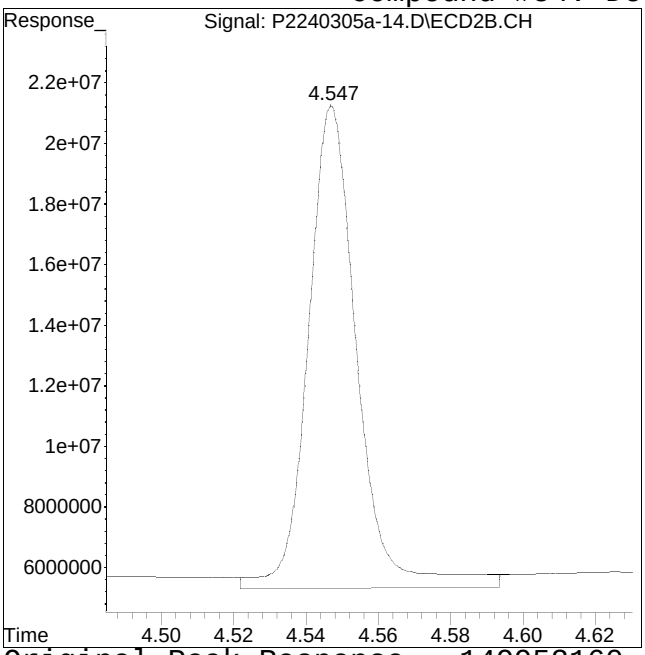
Manual Peak Response = 159393192 M4

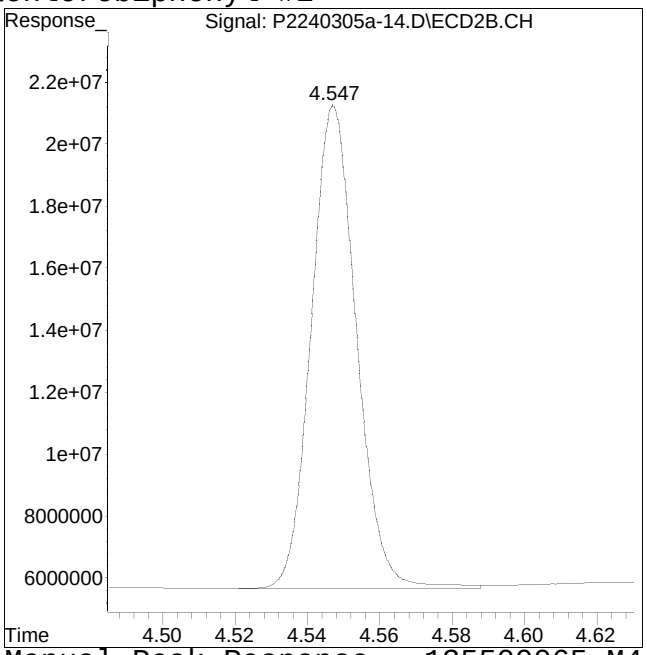
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240305a\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240305a-14.D Operator : pest2:meo
Date Inj'd : 3/5/2024 8:31 am Instrument : Pest 2
Sample : L2410579-03,42,, Quant Date : 3/5/2024 8:45 am

Compound #54: Decachlorobiphenyl #2





Original Peak Response = 149952160 Manual Peak Response = 135500065 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240305a\
Data File : P2240305a-15.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 05 Mar 2024 8:41 am
Operator : pest2:meo
Sample : L2410579-04,42,,
Misc : wg1892200,WG1892017,ical20902
ALS Vial : 15 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Mar 05 09:29:39 2024
Quant Method : I:\PCB\Pest2\2024\240305A\P2_pcb_02_29_24_LVI_ugL_ICAL20902.m
Quant Title : pcb
QLast Update : Thu Feb 29 16:00:47 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240305a\P2240305a-02.D
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards							
1) i	1660_1br2nb	1.167	1.235	228.5E6	274.3E6	25.000	25.000
	Standard Area 1 : #1 = 228178279				Recovery =	100.16%	
	Standard Area 1 : #2 = 242790109				Recovery =	112.98%	
14) i	2154_1br2nb	1.167	1.235	228.5E6	274.3E6	25.000	25.000
23) i	4268_1br2nb	1.167	1.235	228.5E6	274.3E6	25.000	25.000
34) i	1248_1br2nb	1.167	1.235	228.5E6	274.3E6	25.000	25.000
40) i	3262_1br2nb	1.167	1.235	228.5E6	274.3E6	25.000	25.000
System Monitoring Compounds							
2) s	2,4,5,6-Tetr	1.453	1.611	165.9E6	198.5E6	13.853	14.694
	Spiked Amount 20.000	Range 30 - 150			Recovery =	69.27%	73.47%
3) s	Decachlorobi	4.026	4.548	141.0E6	122.2E6	16.252M4	16.797
	Spiked Amount 20.000	Range 30 - 150			Recovery =	81.26%	83.98%
Target Compounds							
4) l1	1016-1	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-2	0.000	0.000	0	0	N.D. d	N.D. d
6) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
8) l1	1016-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1016-1			0	0	N.D.	N.D.
	Average 1016-1					0.000	0.000
9) l2	1260-1	0.000	0.000	0	0	N.D. d	N.D. d
10) l2	1260-2	0.000	0.000	0	0	N.D. d	N.D. d
11) l2	1260-3	0.000	0.000	0	0	N.D.	N.D.
12) l2	1260-4	0.000	0.000	0	0	N.D. d	N.D. d
13) l2	1260-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1260-1			0	0	N.D.	N.D.
	Average 1260-1					0.000	0.000
15) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d
16) l3	1221-3	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PCB\Pest2\2024\240305a\
Data File : P2240305a-15.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 05 Mar 2024 8:41 am
Operator : pest2:meo
Sample : L2410579-04,42,,
Misc : wg1892200,WG1892017,ical20902
ALS Vial : 15 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Mar 05 09:29:39 2024
Quant Method : I:\PCB\Pest2\2024\240305A\P2_pcb_02_29_24_LVI_ugL_ICAL20902.m
Quant Title : pcb
QLast Update : Thu Feb 29 16:00:47 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240305a\P2240305a-02.D
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
17) l3 1221-4	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1221-2			0	0	N.D.	N.D.
Average 1221-2					0.000	0.000
18) l4 1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4 1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4 1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4 1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4 1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1254-1			0	0	N.D.	N.D.
Average 1254-1					0.000	0.000
24) l6 1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6 1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6 1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6 1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6 1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1242-1			0	0	N.D.	N.D.
Average 1242-1					0.000	0.000
29) l9 1268-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l9 1268-2	0.000	0.000	0	0	N.D. d	N.D. d
31) l9 1268-3	0.000	0.000	0	0	N.D. d	N.D. d
32) l9 1268-4	0.000	0.000	0	0	N.D.	N.D.
33) l9 1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1268-1			0	0	N.D.	N.D.
Average 1268-1					0.000	0.000
35) l7 1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7 1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7 1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7 1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7 1248-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1248-1			0	0	N.D.	N.D.
Average 1248-1					0.000	0.000
41) l5 1232-1	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PCB\Pest2\2024\240305a\
Data File : P2240305a-15.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 05 Mar 2024 8:41 am
Operator : pest2:meo
Sample : L2410579-04,42,,
Misc : wg1892200,WG1892017,ical20902
ALS Vial : 15 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Mar 05 09:29:39 2024
Quant Method : I:\PCB\Pest2\2024\240305A\P2_pcb_02_29_24_LVI_ugL_ICAL20902.m
Quant Title : pcb
QLast Update : Thu Feb 29 16:00:47 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240305a\P2240305a-02.D
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
42) l5 1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5 1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5 1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5 1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1232-1			0	0	N.D.	N.D.
Average 1232-1					0.000	0.000
46) l8 1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8 1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8 1262-3	0.000	0.000	0	0	N.D.	N.D.
49) l8 1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50) l8 1262-5	0.000	0.000	0	0	N.D.	N.D.
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument						
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000

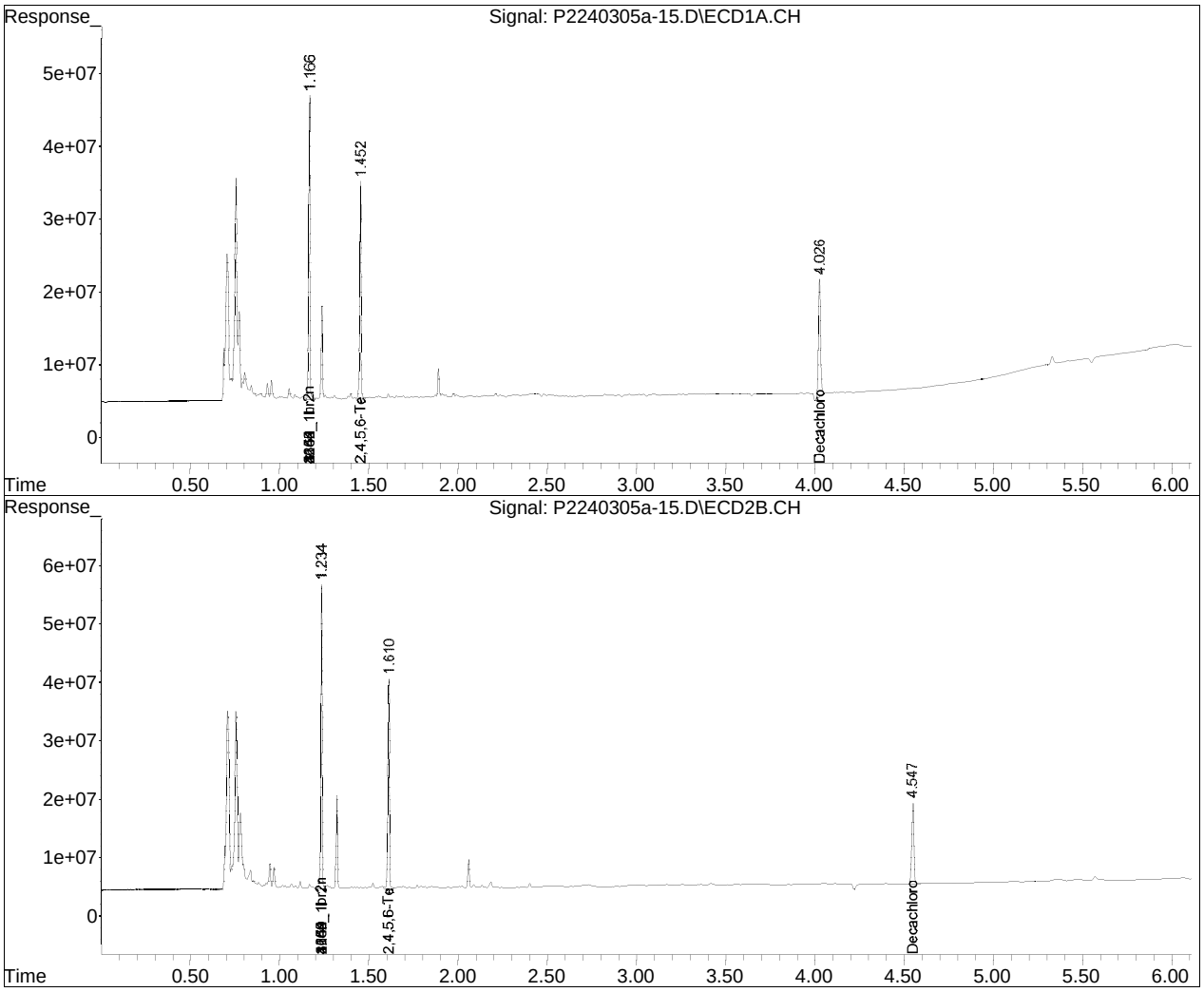
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listedP2240305a-02.D••

Data Path : I:\PCB\Pest2\2024\240305a\
Data File : P2240305a-15.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 05 Mar 2024 8:41 am
Operator : pest2:meo
Sample : L2410579-04,42,,
Misc : wg1892200,WG1892017,ical20902
ALS Vial : 15 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Mar 05 09:29:39 2024
Quant Method : I:\PCB\Pest2\2024\240305A\P2_pcb_02_29_24_LVI_ugL_ICAL20902.m
Quant Title : pcb
QLast Update : Thu Feb 29 16:00:47 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

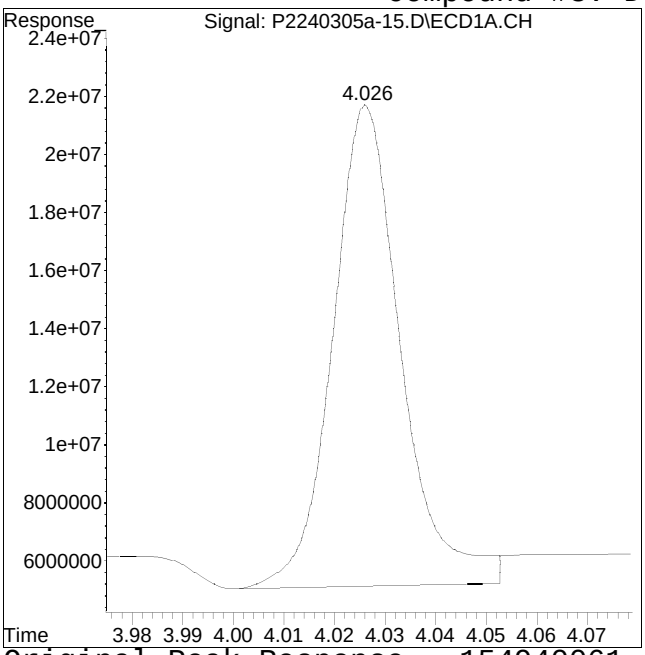
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



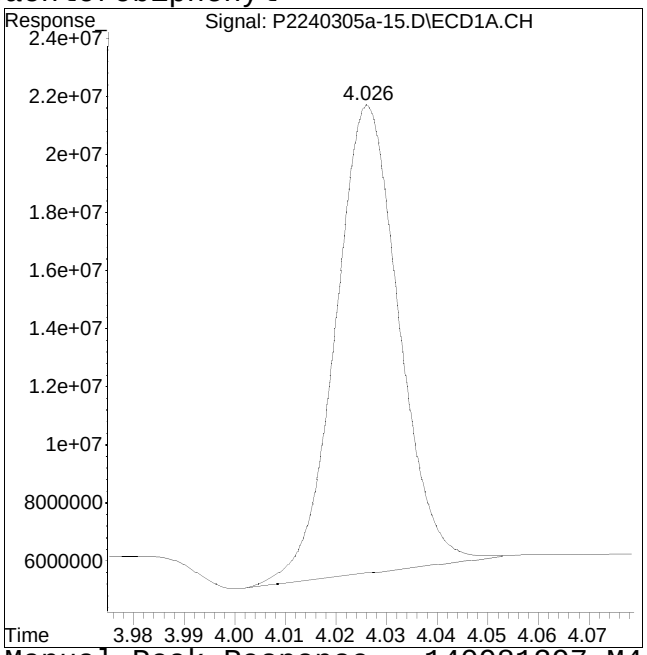
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240305a\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240305a-15.D Operator : pest2:meo
Date Inj'd : 3/5/2024 8:41 am Instrument : Pest 2
Sample : L2410579-04,42,, Quant Date : 3/5/2024 9:29 am

Compound #3: Decachlorobiphenyl



Original Peak Response = 154940061



Manual Peak Response = 140981397 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240305a\
Data File : P2240305a-16.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 05 Mar 2024 8:50 am
Operator : pest2:meo
Sample : L2410579-05,42,,
Misc : wg1892200,WG1892017,ical20902
ALS Vial : 16 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Mar 05 09:30:23 2024
Quant Method : I:\PCB\Pest2\2024\240305A\P2_pcb_02_29_24_LVI_ugL_ICAL20902.m
Quant Title : pcb
QLast Update : Thu Feb 29 16:00:47 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240305a\P2240305a-02.D
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards							
1) i	1660_1br2nb	1.166	1.235	224.2E6	275.6E6	25.000M4	25.000
	Standard Area 1 : #1 = 228178279				Recovery =	98.24%	
	Standard Area 1 : #2 = 242790109				Recovery =	113.51%	
14) i	2154_1br2nb	1.166	1.235	224.2E6	275.6E6	25.000M4	25.000
23) i	4268_1br2nb	1.166	1.235	224.2E6	275.6E6	25.000M4	25.000
34) i	1248_1br2nb	1.166	1.235	224.2E6	275.6E6	25.000M4	25.000
40) i	3262_1br2nb	1.166	1.235	224.2E6	275.6E6	25.000M4	25.000
System Monitoring Compounds							
2) s	2,4,5,6-Tetr	1.453	1.611	162.6E6	190.1E6	13.837	14.009
	Spiked Amount 20.000	Range 30 - 150			Recovery =	69.19%	70.05%
3) s	Decachlorobi	4.025	4.548	146.2E6	125.0E6	17.184M4	17.104
	Spiked Amount 20.000	Range 30 - 150			Recovery =	85.92%	85.52%
Target Compounds							
4) l1	1016-1	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-2	0.000	0.000	0	0	N.D. d	N.D. d
6) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
8) l1	1016-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1016-1			0	0	N.D.	N.D.
	Average 1016-1					0.000	0.000
9) l2	1260-1	0.000	0.000	0	0	N.D. d	N.D. d
10) l2	1260-2	0.000	0.000	0	0	N.D. d	N.D. d
11) l2	1260-3	0.000	0.000	0	0	N.D. d	N.D. d
12) l2	1260-4	0.000	0.000	0	0	N.D. d	N.D. d
13) l2	1260-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1260-1			0	0	N.D.	N.D.
	Average 1260-1					0.000	0.000
15) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d
16) l3	1221-3	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PCB\Pest2\2024\240305a\
Data File : P2240305a-16.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 05 Mar 2024 8:50 am
Operator : pest2:meo
Sample : L2410579-05,42,,
Misc : wg1892200,WG1892017,ical20902
ALS Vial : 16 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Mar 05 09:30:23 2024
Quant Method : I:\PCB\Pest2\2024\240305A\P2_pcb_02_29_24_LVI_ugL_ICAL20902.m
Quant Title : pcb
QLast Update : Thu Feb 29 16:00:47 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240305a\P2240305a-02.D
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
17) l3 1221-4	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1221-2			0	0	N.D.	N.D.
Average 1221-2					0.000	0.000
18) l4 1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4 1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4 1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4 1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4 1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1254-1			0	0	N.D.	N.D.
Average 1254-1					0.000	0.000
24) l6 1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6 1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6 1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6 1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6 1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1242-1			0	0	N.D.	N.D.
Average 1242-1					0.000	0.000
29) l9 1268-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l9 1268-2	0.000	0.000	0	0	N.D.	N.D.
31) l9 1268-3	0.000	0.000	0	0	N.D. d	N.D. d
32) l9 1268-4	0.000	0.000	0	0	N.D.	N.D.
33) l9 1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1268-1			0	0	N.D.	N.D.
Average 1268-1					0.000	0.000
35) l7 1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7 1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7 1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7 1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7 1248-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1248-1			0	0	N.D.	N.D.
Average 1248-1					0.000	0.000
41) l5 1232-1	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PCB\Pest2\2024\240305a\
Data File : P2240305a-16.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 05 Mar 2024 8:50 am
Operator : pest2:meo
Sample : L2410579-05,42,,
Misc : wg1892200,WG1892017,ical20902
ALS Vial : 16 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Mar 05 09:30:23 2024
Quant Method : I:\PCB\Pest2\2024\240305A\P2_pcb_02_29_24_LVI_ugL_ICAL20902.m
Quant Title : pcb
QLast Update : Thu Feb 29 16:00:47 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240305a\P2240305a-02.D
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
42) l5 1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5 1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5 1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5 1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1232-1			0	0	N.D.	N.D.
Average 1232-1					0.000	0.000
46) l8 1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8 1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8 1262-3	0.000	0.000	0	0	N.D. d	N.D. d
49) l8 1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50) l8 1262-5	0.000	0.000	0	0	N.D.	N.D.
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument						
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000

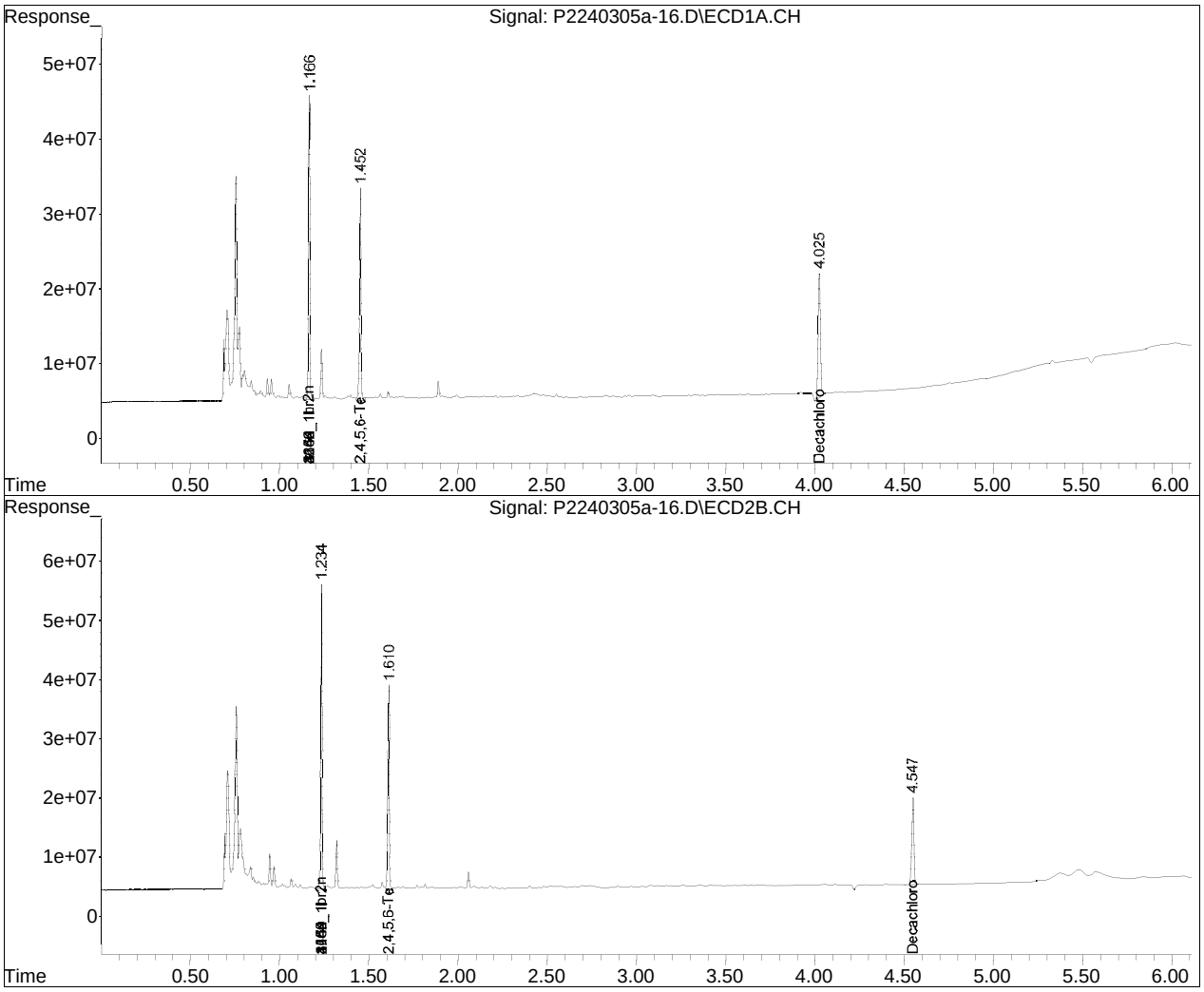
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listedP2240305a-02.D••

Data Path : I:\PCB\Pest2\2024\240305a\
Data File : P2240305a-16.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 05 Mar 2024 8:50 am
Operator : pest2:meo
Sample : L2410579-05,42,,
Misc : wg1892200,WG1892017,ical20902
ALS Vial : 16 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Mar 05 09:30:23 2024
Quant Method : I:\PCB\Pest2\2024\240305A\P2_pcb_02_29_24_LVI_ugL_ICAL20902.m
Quant Title : pcb
QLast Update : Thu Feb 29 16:00:47 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

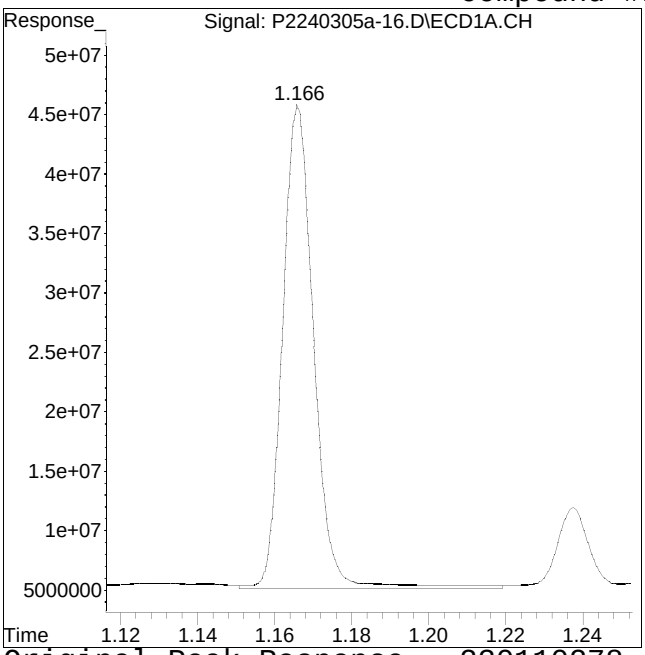
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



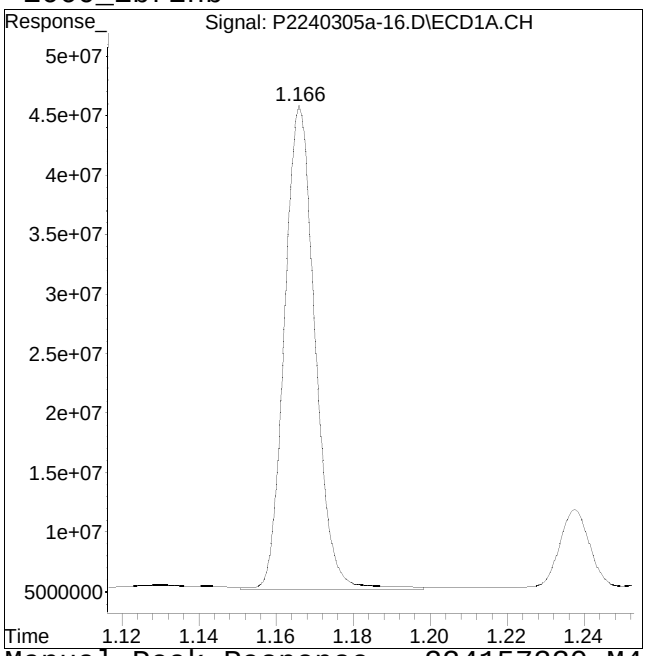
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240305a\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240305a-16.D Operator : pest2:meo
Date Inj'd : 3/5/2024 8:50 am Instrument : Pest 2
Sample : L2410579-05,42,, Quant Date : 3/5/2024 9:29 am

Compound #1: 1660_1br2nb



Original Peak Response = 230110278



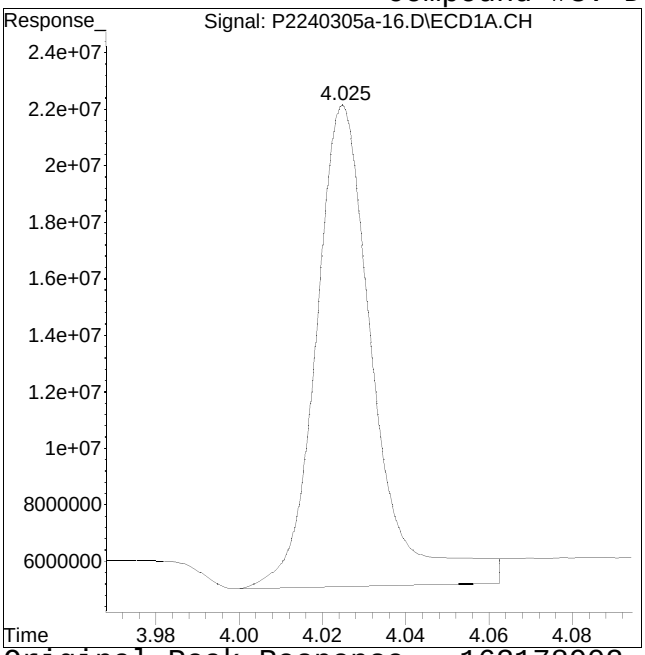
Manual Peak Response = 224157330 M4

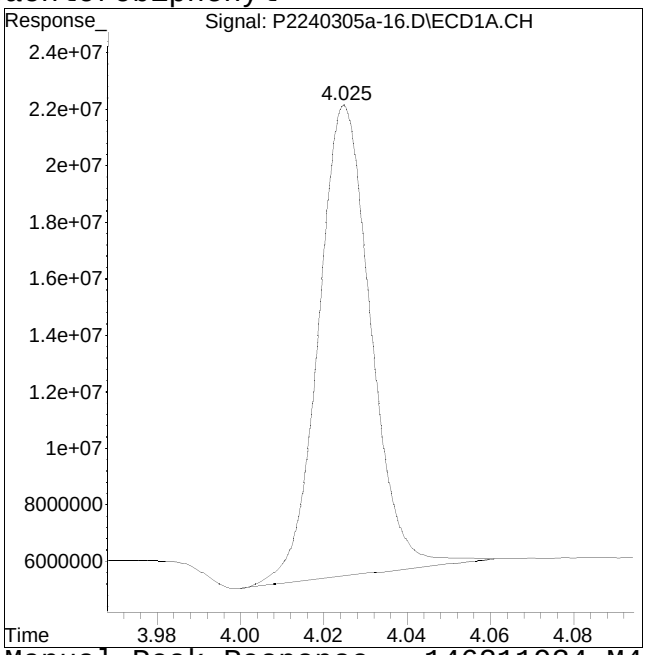
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240305a\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240305a-16.D Operator : pest2:meo
Date Inj'd : 3/5/2024 8:50 am Instrument : Pest 2
Sample : L2410579-05,42,, Quant Date : 3/5/2024 9:29 am

Compound #3: Decachlorobiphenyl





Original Peak Response = 163178902 Manual Peak Response = 146211934 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240305a\
Data File : P2240305a-17.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 05 Mar 2024 8:59 am
Operator : pest2:meo
Sample : L2410579-06,42,,
Misc : wg1892200,WG1892017,ical20902
ALS Vial : 17 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Mar 05 09:32:34 2024
Quant Method : I:\PCB\Pest2\2024\240305A\P2_pcb_02_29_24_LVI_ugL_ICAL20902.m
Quant Title : pcb
QLast Update : Thu Feb 29 16:00:47 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240305a\P2240305a-02.D
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards							
1) i	1660_1br2nb	1.167	1.235	216.3E6	263.1E6	25.000	25.000
	Standard Area 1 : #1 = 228178279				Recovery =	94.78%	
	Standard Area 1 : #2 = 242790109				Recovery =	108.37%	
14) i	2154_1br2nb	1.167	1.235	216.3E6	263.1E6	25.000	25.000
23) i	4268_1br2nb	1.167	1.235	216.3E6	263.1E6	25.000	25.000
34) i	1248_1br2nb	1.167	1.235	216.3E6	263.1E6	25.000	25.000
40) i	3262_1br2nb	1.167	1.235	216.3E6	263.1E6	25.000	25.000
System Monitoring Compounds							
2) s	2,4,5,6-Tetr	1.453	1.611	159.5E6	186.9E6	14.072	14.426M4
	Spiked Amount 20.000	Range 30 - 150			Recovery =	70.36%	72.13%
3) s	Decachlorobi	4.025	4.548	143.0E6	119.4E6	17.414M4	17.113
	Spiked Amount 20.000	Range 30 - 150			Recovery =	87.07%	85.56%
Target Compounds							
4) l1	1016-1	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-2	0.000	0.000	0	0	N.D. d	N.D. d
6) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
8) l1	1016-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1016-1			0	0	N.D.	N.D.
	Average 1016-1					0.000	0.000
9) l2	1260-1	0.000	0.000	0	0	N.D. d	N.D. d
10) l2	1260-2	0.000	0.000	0	0	N.D. d	N.D. d
11) l2	1260-3	0.000	0.000	0	0	N.D. d	N.D. d
12) l2	1260-4	0.000	0.000	0	0	N.D. d	N.D. d
13) l2	1260-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1260-1			0	0	N.D.	N.D.
	Average 1260-1					0.000	0.000
15) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d
16) l3	1221-3	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PCB\Pest2\2024\240305a\
Data File : P2240305a-17.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 05 Mar 2024 8:59 am
Operator : pest2:meo
Sample : L2410579-06,42,,
Misc : wg1892200,WG1892017,ical20902
ALS Vial : 17 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Mar 05 09:32:34 2024
Quant Method : I:\PCB\Pest2\2024\240305A\P2_pcb_02_29_24_LVI_ugL_ICAL20902.m
Quant Title : pcb
QLast Update : Thu Feb 29 16:00:47 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240305a\P2240305a-02.D
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
17) l3 1221-4	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1221-2			0	0	N.D.	N.D.
Average 1221-2					0.000	0.000
18) l4 1254-1	2.315	0.000	1138638	0	2.974M4	N.D. d
19) l4 1254-2	0.000	2.741	0	1892221	N.D. d	3.636M4
20) l4 1254-3	2.608	2.974	985688	1129407	1.484M4	1.546M4
21) l4 1254-4	2.740	3.084	1423422	1779346	2.777M4	3.750M4
22) l4 1254-5	2.960	3.373	1538061	2581330	2.164M4	3.884M4
Sum 1254-1			5085809	7382305	9.400	12.816
Average 1254-1					2.350	3.204
24) l6 1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6 1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6 1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6 1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6 1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1242-1			0	0	N.D.	N.D.
Average 1242-1					0.000	0.000
29) l9 1268-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l9 1268-2	0.000	0.000	0	0	N.D. d	N.D. d
31) l9 1268-3	0.000	0.000	0	0	N.D. d	N.D. d
32) l9 1268-4	0.000	0.000	0	0	N.D. d	N.D. d
33) l9 1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1268-1			0	0	N.D.	N.D.
Average 1268-1					0.000	0.000
35) l7 1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7 1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7 1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7 1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7 1248-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1248-1			0	0	N.D.	N.D.
Average 1248-1					0.000	0.000
41) l5 1232-1	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PCB\Pest2\2024\240305a\
Data File : P2240305a-17.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 05 Mar 2024 8:59 am
Operator : pest2:meo
Sample : L2410579-06,42,,
Misc : wg1892200,WG1892017,ical20902
ALS Vial : 17 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Mar 05 09:32:34 2024
Quant Method : I:\PCB\Pest2\2024\240305A\P2_pcb_02_29_24_LVI_ugL_ICAL20902.m
Quant Title : pcb
QLast Update : Thu Feb 29 16:00:47 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240305a\P2240305a-02.D
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
42) l5 1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5 1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5 1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5 1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1232-1			0	0	N.D.	N.D.
Average 1232-1					0.000	0.000
46) l8 1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8 1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8 1262-3	0.000	0.000	0	0	N.D. d	N.D. d
49) l8 1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50) l8 1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument						
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000

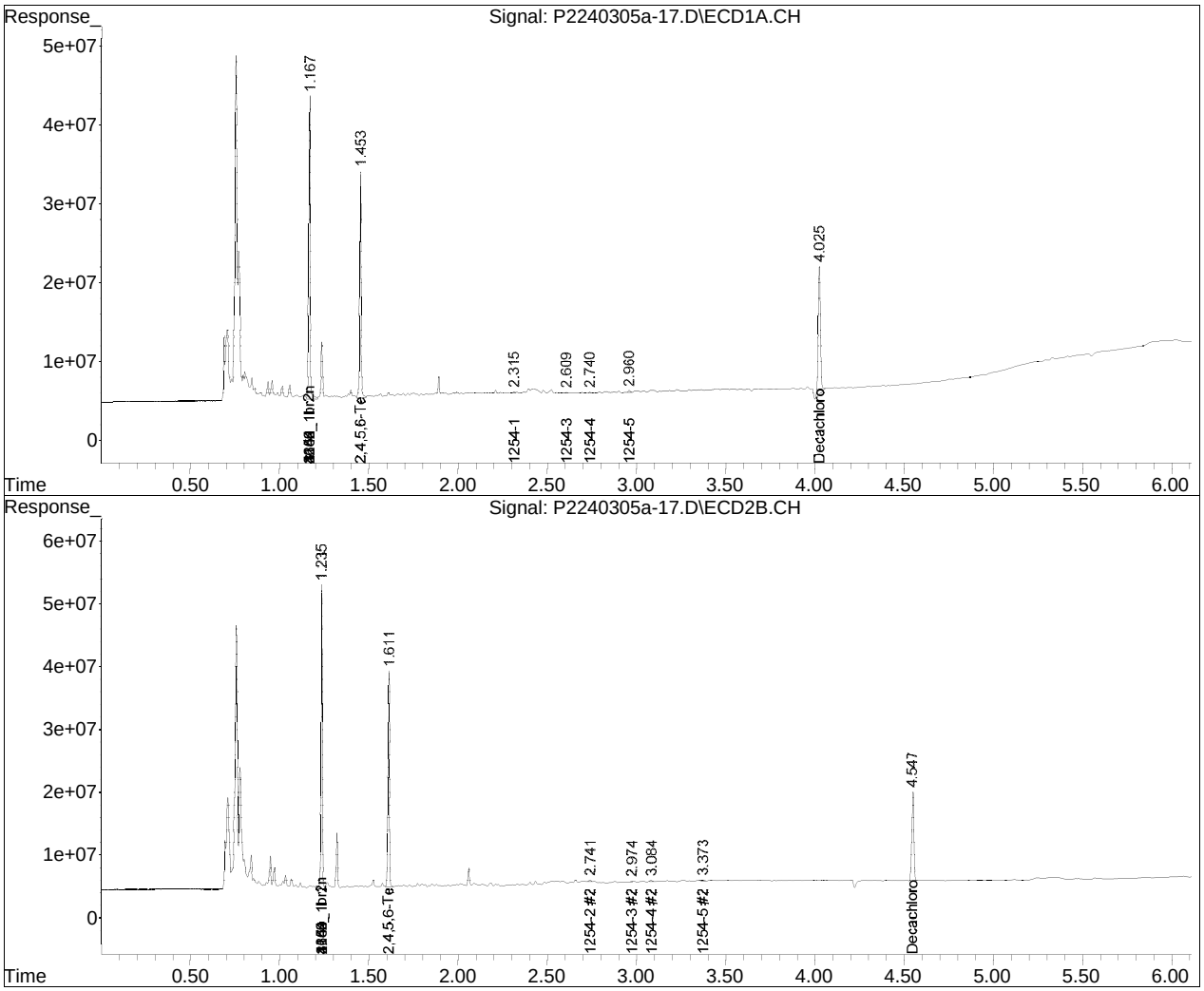
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listedP2240305a-02.D••

Data Path : I:\PCB\Pest2\2024\240305a\
Data File : P2240305a-17.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 05 Mar 2024 8:59 am
Operator : pest2:meo
Sample : L2410579-06,42,,
Misc : wg1892200,WG1892017,ical20902
ALS Vial : 17 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Mar 05 09:32:34 2024
Quant Method : I:\PCB\Pest2\2024\240305A\P2_pcb_02_29_24_LVI_ugL_ICAL20902.m
Quant Title : pcb
QLast Update : Thu Feb 29 16:00:47 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

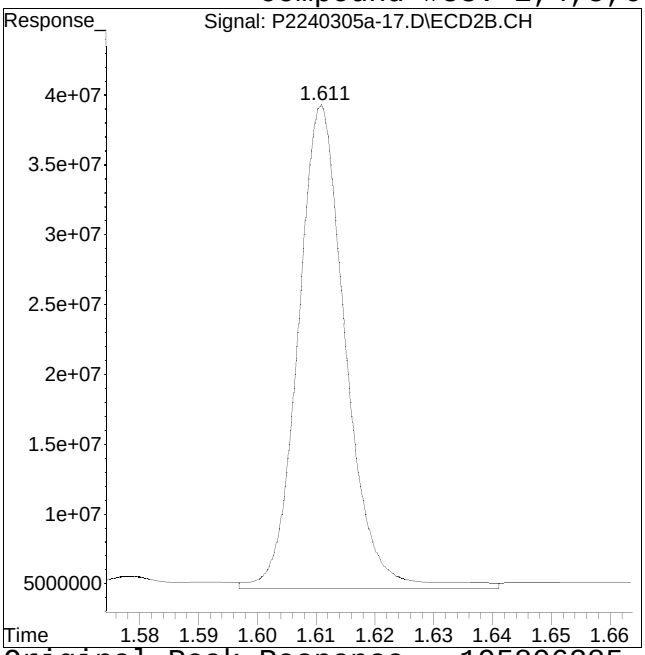
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

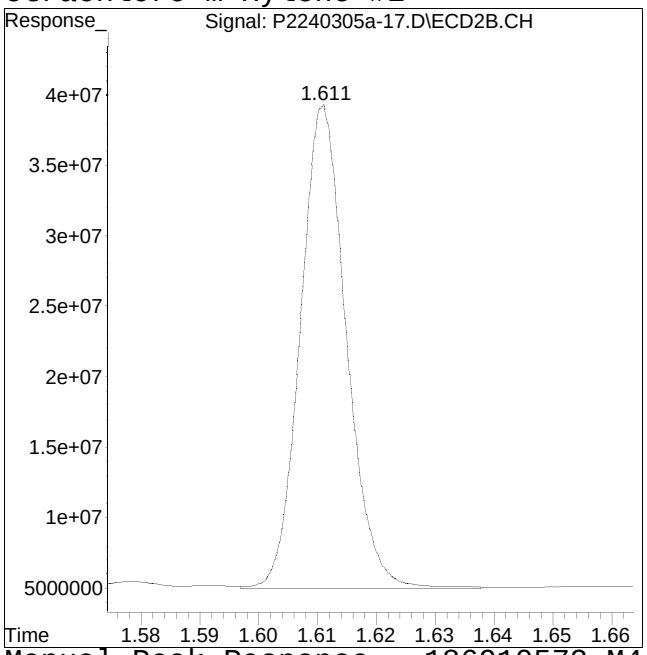


Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240305a\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240305a-17.D Operator : pest2:meo
Date Inj'd : 3/5/2024 8:59 am Instrument : Pest 2
Sample : L2410579-06,42,, Quant Date : 3/5/2024 9:29 am

Compound #53: 2,4,5,6-Tetrachloro-m-xylene #2



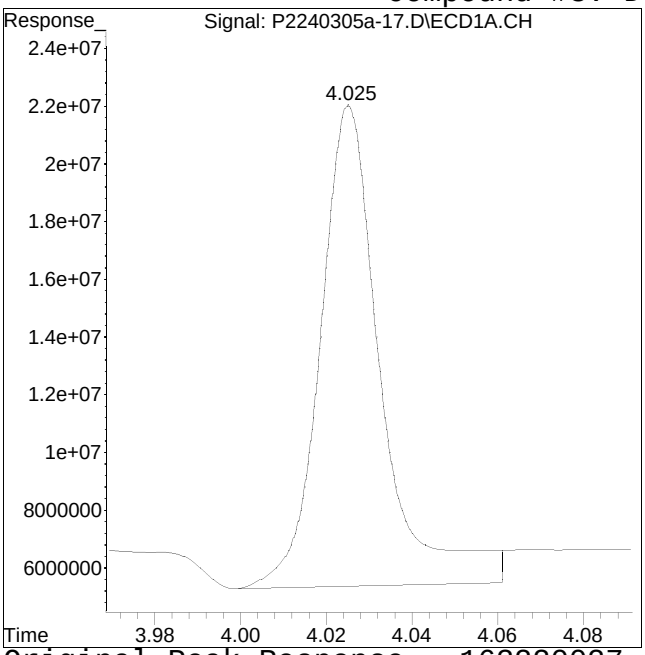


Original Peak Response = 195806385 Manual Peak Response = 186910572 M4
M4 = Poor automated baseline construction.

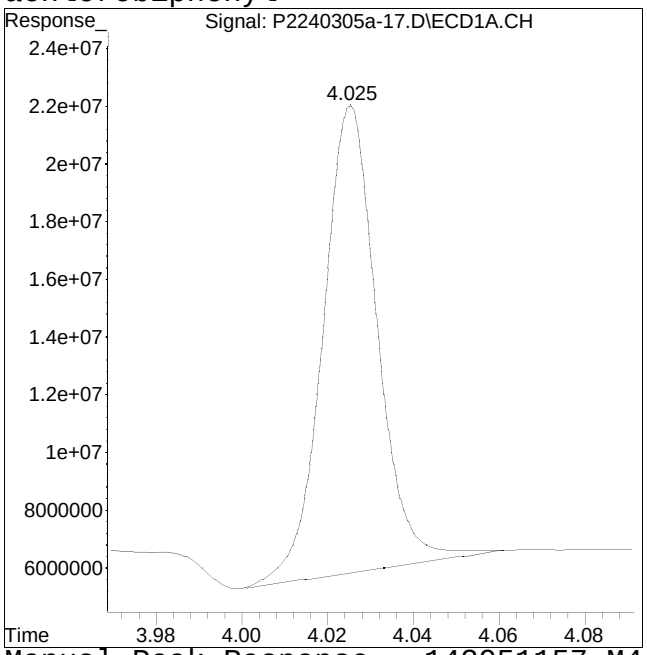
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240305a\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240305a-17.D Operator : pest2:meo
Date Inj'd : 3/5/2024 8:59 am Instrument : Pest 2
Sample : L2410579-06,42,, Quant Date : 3/5/2024 9:29 am

Compound #3: Decachlorobiphenyl



Original Peak Response = 163220027



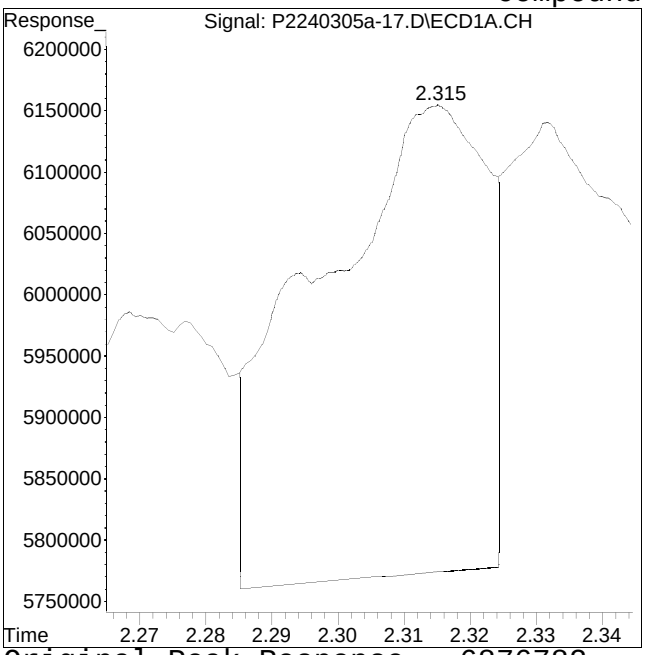
Manual Peak Response = 142951157 M4

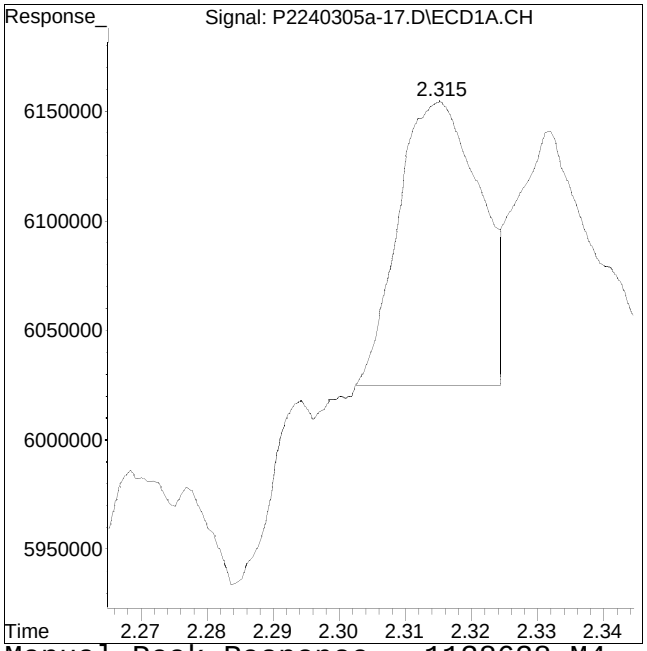
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240305a\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240305a-17.D Operator : pest2:meo
Date Inj'd : 3/5/2024 8:59 am Instrument : Pest 2
Sample : L2410579-06,42,, Quant Date : 3/5/2024 9:29 am

Compound #18: 1254-1



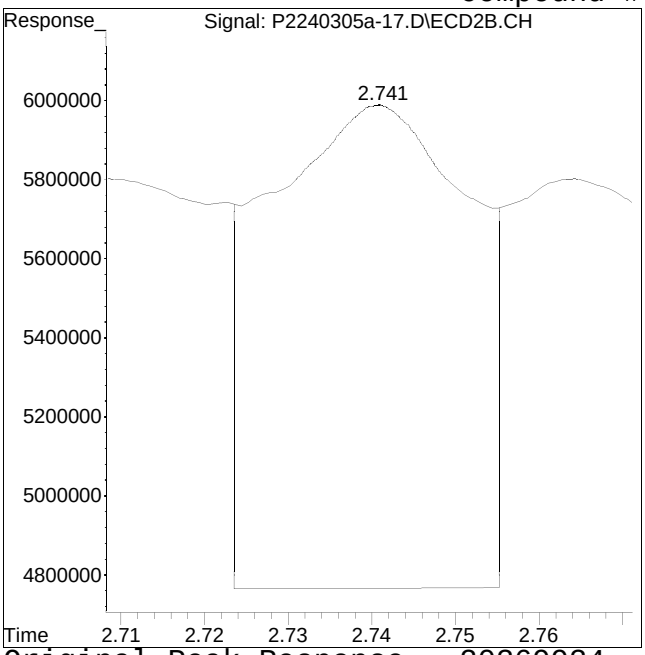


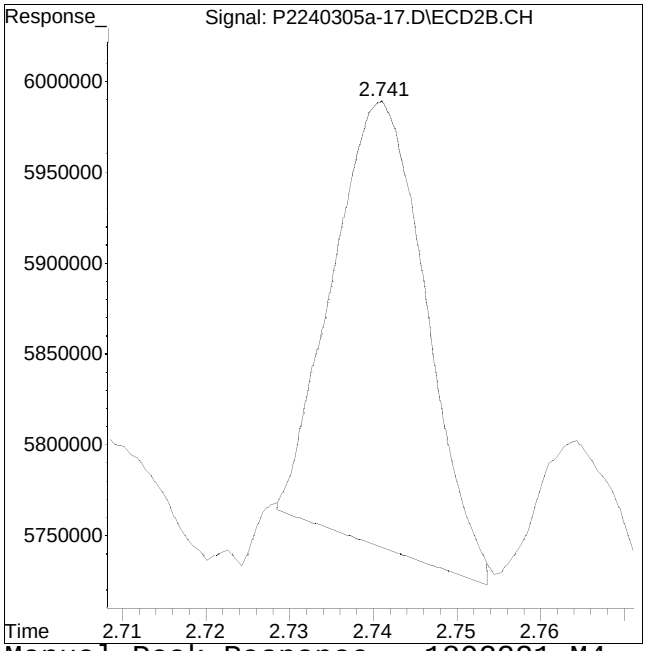
Original Peak Response = 6876782 Manual Peak Response = 1138638 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240305a\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240305a-17.D Operator : pest2:meo
Date Inj'd : 3/5/2024 8:59 am Instrument : Pest 2
Sample : L2410579-06,42,, Quant Date : 3/5/2024 9:29 am

Compound #70: 1254-2 #2



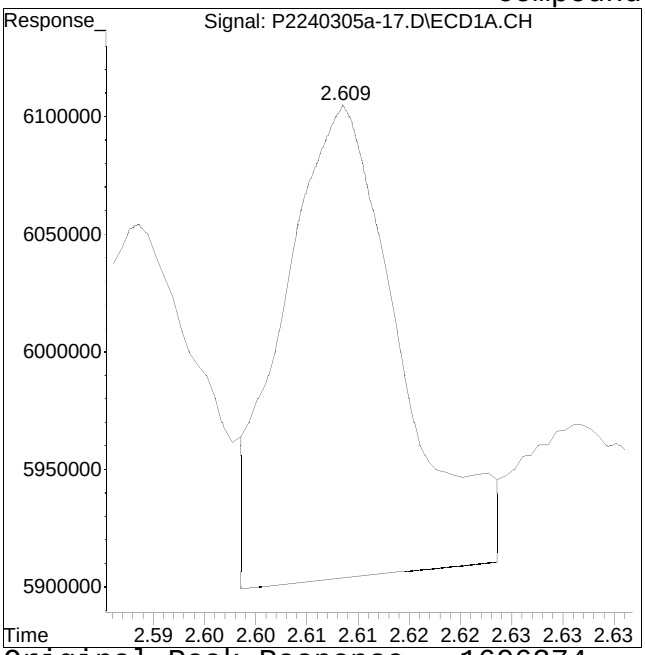


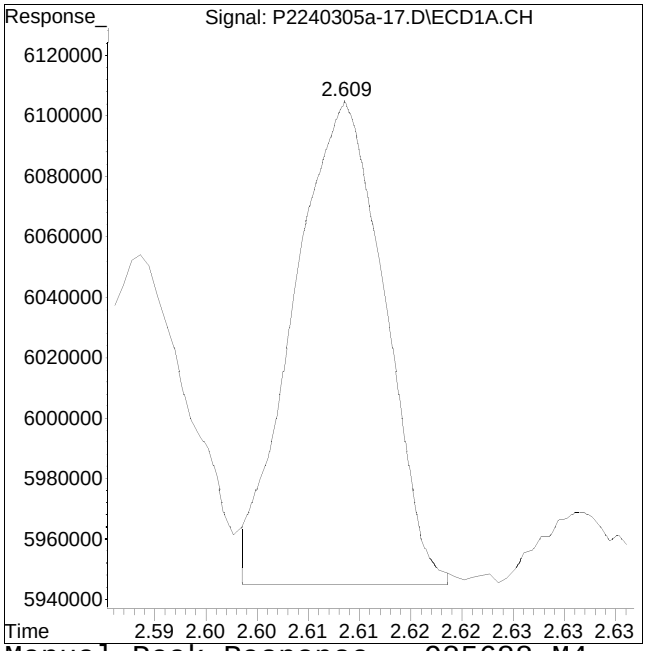
Original Peak Response = 20369934 Manual Peak Response = 1892221 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240305a\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240305a-17.D Operator : pest2:meo
Date Inj'd : 3/5/2024 8:59 am Instrument : Pest 2
Sample : L2410579-06,42,, Quant Date : 3/5/2024 9:29 am

Compound #20: 1254-3



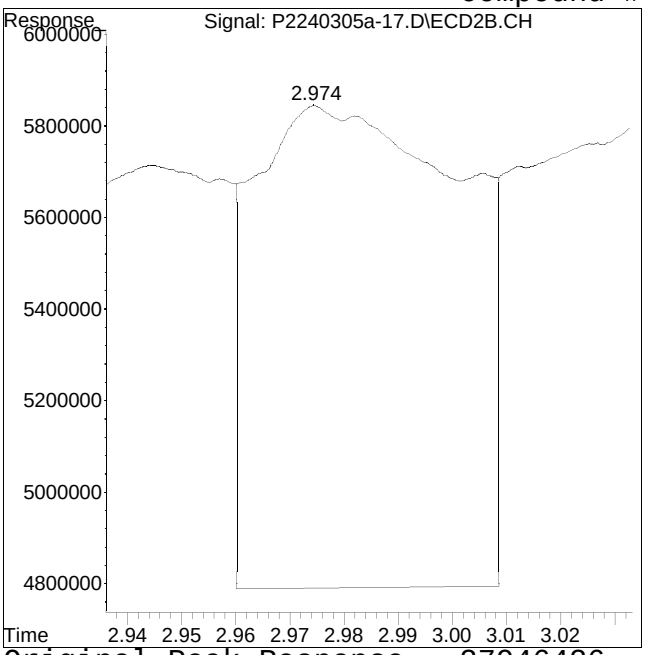


Original Peak Response = 1606274 Manual Peak Response = 985688 M4
M4 = Poor automated baseline construction.

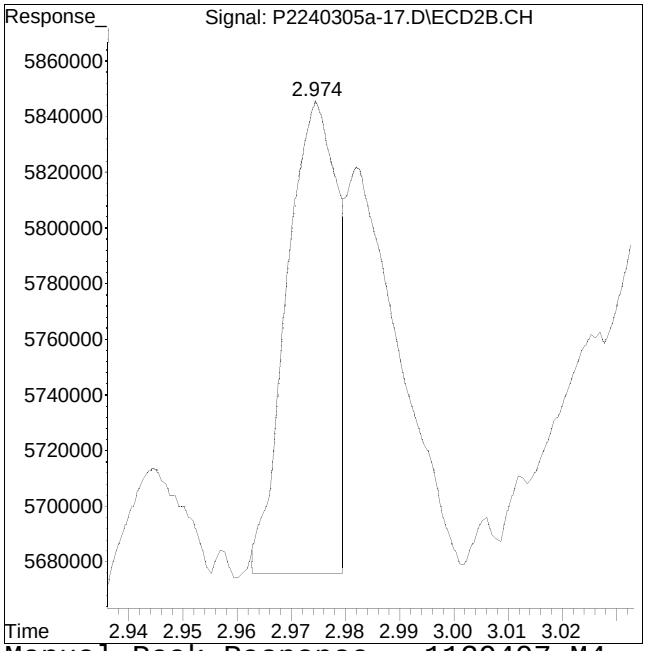
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240305a\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240305a-17.D Operator : pest2:meo
Date Inj'd : 3/5/2024 8:59 am Instrument : Pest 2
Sample : L2410579-06,42,, Quant Date : 3/5/2024 9:29 am

Compound #71: 1254-3 #2



Original Peak Response = 27946426



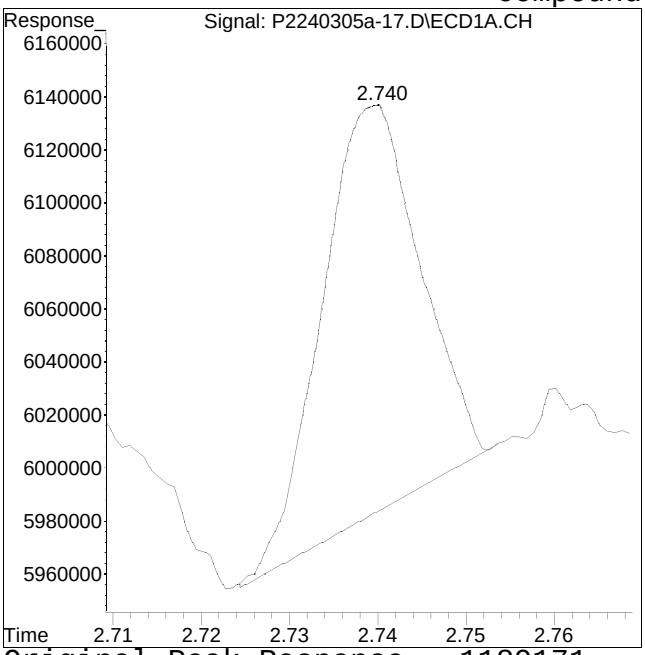
Manual Peak Response = 1129407 M4

M4 = Poor automated baseline construction.

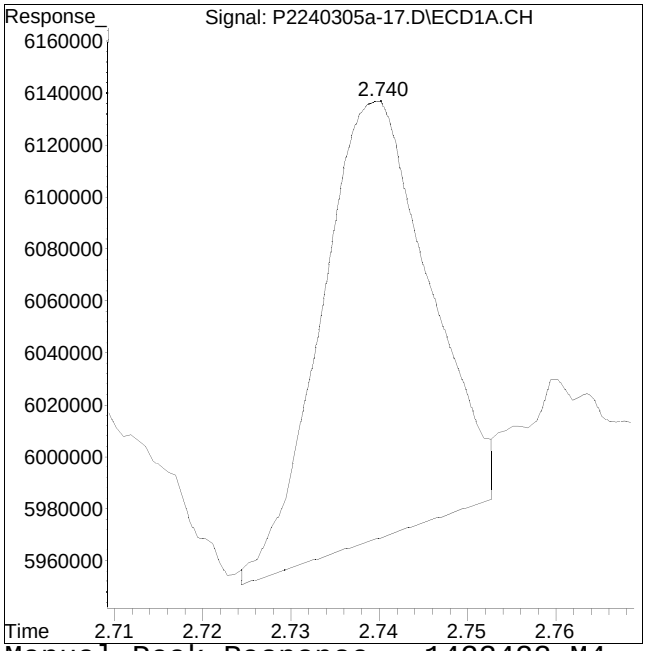
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240305a\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240305a-17.D Operator : pest2:meo
Date Inj'd : 3/5/2024 8:59 am Instrument : Pest 2
Sample : L2410579-06,42,, Quant Date : 3/5/2024 9:29 am

Compound #21: 1254-4



Original Peak Response = 1189171



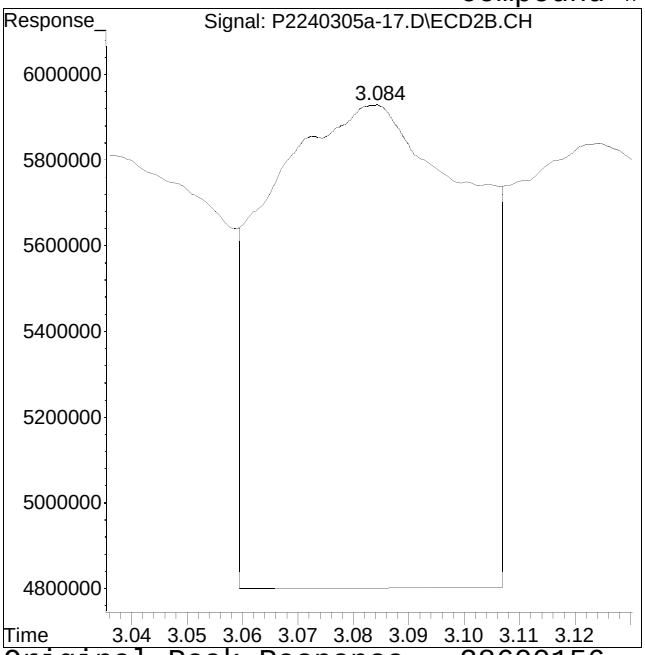
Manual Peak Response = 1423422 M4

M4 = Poor automated baseline construction.

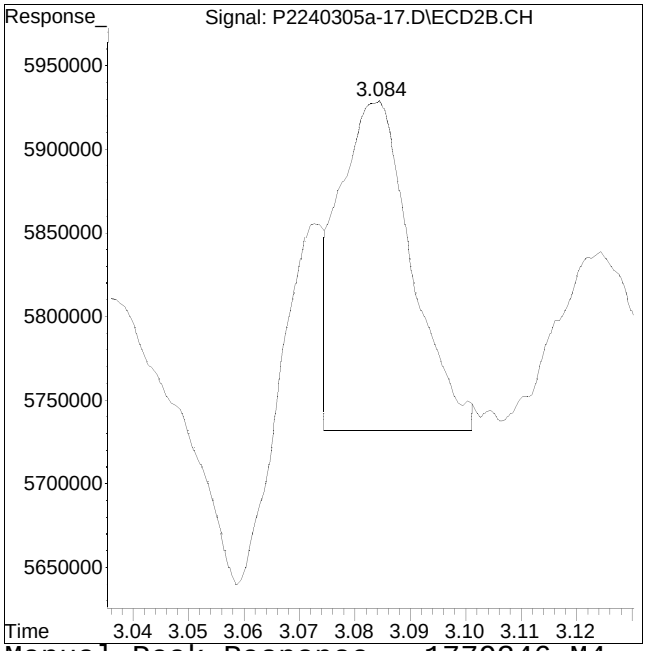
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240305a\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240305a-17.D Operator : pest2:meo
Date Inj'd : 3/5/2024 8:59 am Instrument : Pest 2
Sample : L2410579-06,42,, Quant Date : 3/5/2024 9:29 am

Compound #72: 1254-4 #2



Original Peak Response = 28600156



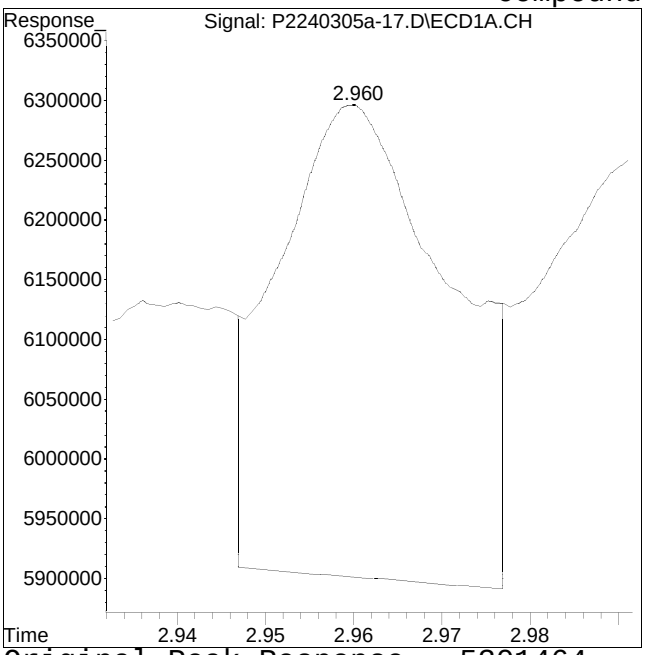
Manual Peak Response = 1779346 M4

M4 = Poor automated baseline construction.

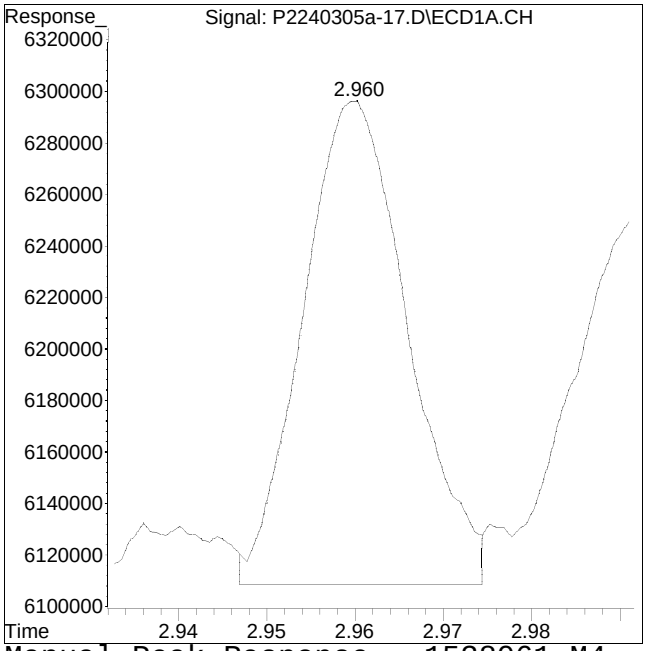
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240305a\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240305a-17.D Operator : pest2:meo
Date Inj'd : 3/5/2024 8:59 am Instrument : Pest 2
Sample : L2410579-06,42,, Quant Date : 3/5/2024 9:29 am

Compound #22: 1254-5



Original Peak Response = 5301464



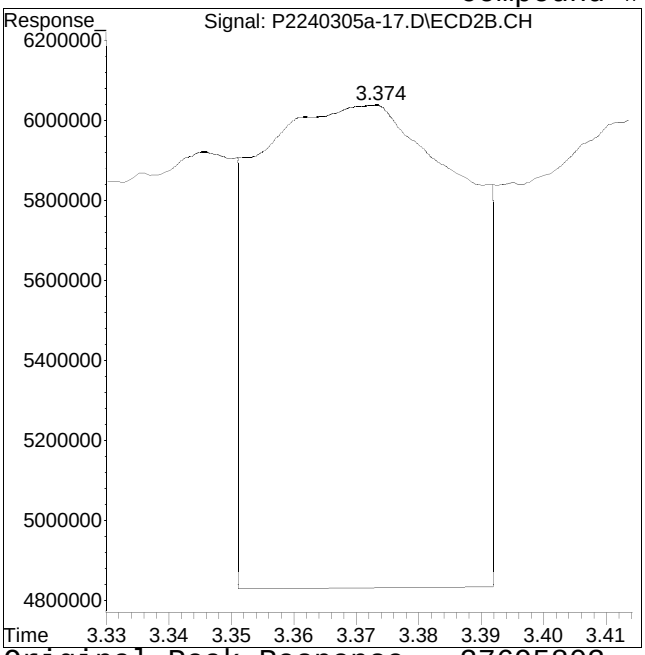
Manual Peak Response = 1538061 M4

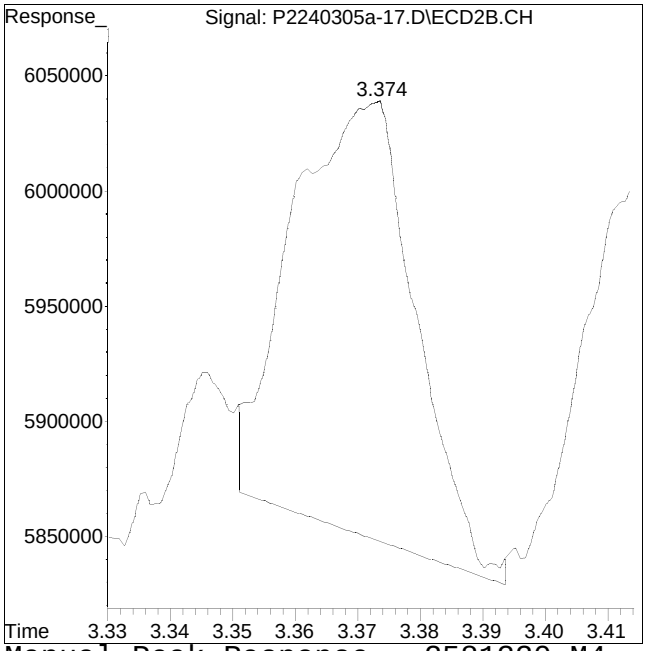
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240305a\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240305a-17.D Operator : pest2:meo
Date Inj'd : 3/5/2024 8:59 am Instrument : Pest 2
Sample : L2410579-06,42,, Quant Date : 3/5/2024 9:29 am

Compound #73: 1254-5 #2





Original Peak Response = 27695803 Manual Peak Response = 2581330 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240305a\
Data File : P2240305a-18.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 05 Mar 2024 9:09 am
Operator : pest2:meo
Sample : L2410579-07,42,,
Misc : wg1892200,WG1892017,ical20902
ALS Vial : 18 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Mar 05 09:34:13 2024
Quant Method : I:\PCB\Pest2\2024\240305A\P2_pcb_02_29_24_LVI_ugL_ICAL20902.m
Quant Title : pcb
QLast Update : Thu Feb 29 16:00:47 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240305a\P2240305a-02.D
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards							
1) i	1660_1br2nb	1.167	1.235	221.4E6	265.9E6	25.000	25.000
	Standard Area 1 : #1 = 228178279				Recovery =	97.01%	
	Standard Area 1 : #2 = 242790109				Recovery =	109.54%	
14) i	2154_1br2nb	1.167	1.235	221.4E6	265.9E6	25.000	25.000
23) i	4268_1br2nb	1.167	1.235	221.4E6	265.9E6	25.000	25.000
34) i	1248_1br2nb	1.167	1.235	221.4E6	265.9E6	25.000	25.000
40) i	3262_1br2nb	1.167	1.235	221.4E6	265.9E6	25.000	25.000
System Monitoring Compounds							
2) s	2,4,5,6-Tetr	1.453	1.611	158.9E6	185.8E6	13.694	14.183
	Spiked Amount 20.000	Range 30 - 150			Recovery =	68.47%	70.91%
3) s	Decachlorobi	4.025	4.547	145.1E6	120.8E6	17.268M4	17.120M4
	Spiked Amount 20.000	Range 30 - 150			Recovery =	86.34%	85.60%
Target Compounds							
4) l1	1016-1	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-2	0.000	0.000	0	0	N.D. d	N.D. d
6) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
8) l1	1016-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1016-1			0	0	N.D.	N.D.
Average	1016-1					0.000	0.000
9) l2	1260-1	0.000	0.000	0	0	N.D. d	N.D. d
10) l2	1260-2	0.000	0.000	0	0	N.D. d	N.D. d
11) l2	1260-3	0.000	0.000	0	0	N.D. d	N.D. d
12) l2	1260-4	0.000	0.000	0	0	N.D. d	N.D. d
13) l2	1260-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1260-1			0	0	N.D.	N.D.
Average	1260-1					0.000	0.000

Data Path : I:\PCB\Pest2\2024\240305a\
Data File : P2240305a-18.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 05 Mar 2024 9:09 am
Operator : pest2:meo
Sample : L2410579-07,42,,
Misc : wg1892200,WG1892017,ical20902
ALS Vial : 18 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Mar 05 09:34:13 2024
Quant Method : I:\PCB\Pest2\2024\240305A\P2_pcb_02_29_24_LVI_ugL_ICAL20902.m
Quant Title : pcb
QLast Update : Thu Feb 29 16:00:47 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240305a\P2240305a-02.D
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
15) l3 1221-2	0.000	0.000	0	0	N.D.	N.D.
16) l3 1221-3	0.000	0.000	0	0	N.D. d	N.D. d
17) l3 1221-4	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1221-2			0	0	N.D.	N.D.
Average 1221-2					0.000	0.000
18) l4 1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4 1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4 1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4 1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4 1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1254-1			0	0	N.D.	N.D.
Average 1254-1					0.000	0.000
24) l6 1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6 1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6 1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6 1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6 1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1242-1			0	0	N.D.	N.D.
Average 1242-1					0.000	0.000
29) l9 1268-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l9 1268-2	0.000	0.000	0	0	N.D. d	N.D. d
31) l9 1268-3	0.000	0.000	0	0	N.D. d	N.D. d
32) l9 1268-4	0.000	0.000	0	0	N.D.	N.D.
33) l9 1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1268-1			0	0	N.D.	N.D.
Average 1268-1					0.000	0.000
35) l7 1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7 1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7 1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7 1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7 1248-5	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240305a\
Data File : P2240305a-18.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 05 Mar 2024 9:09 am
Operator : pest2:meo
Sample : L2410579-07,42,,
Misc : wg1892200,WG1892017,ical20902
ALS Vial : 18 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Mar 05 09:34:13 2024
Quant Method : I:\PCB\Pest2\2024\240305A\P2_pcb_02_29_24_LVI_ugL_ICAL20902.m
Quant Title : pcb
QLast Update : Thu Feb 29 16:00:47 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240305a\P2240305a-02.D
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Sum 1248-1			0	0	N.D.	N.D.
Average 1248-1					0.000	0.000
41) l5 1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5 1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5 1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5 1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5 1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1232-1			0	0	N.D.	N.D.
Average 1232-1					0.000	0.000
46) l8 1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8 1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8 1262-3	0.000	0.000	0	0	N.D. d	N.D. d
49) l8 1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50) l8 1262-5	0.000	0.000	0	0	N.D.	N.D.
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument						
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000

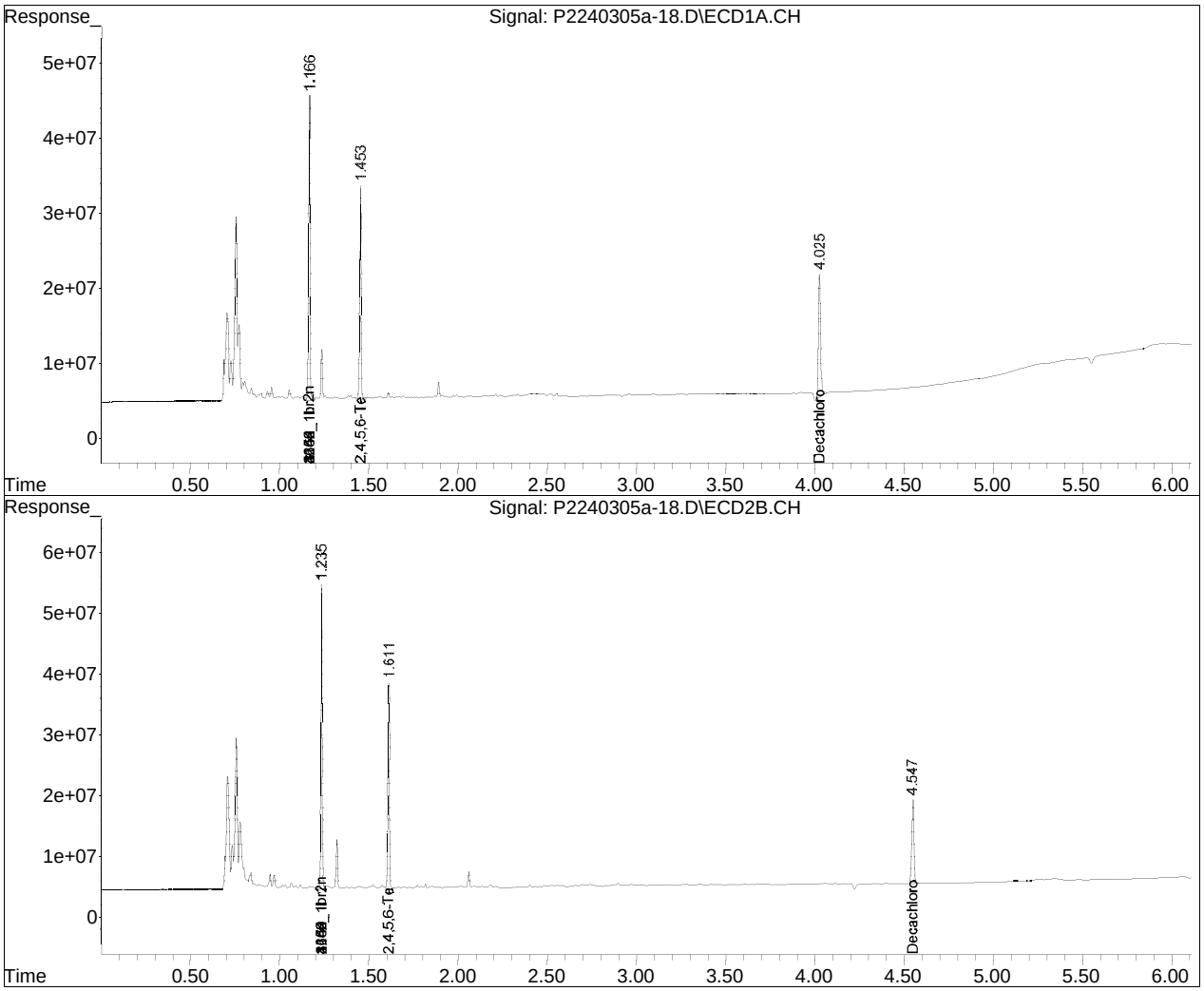
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.

Sub List : Default - All compounds listedP2240305a-02.D••

Data Path : I:\PCB\Pest2\2024\240305a\
Data File : P2240305a-18.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 05 Mar 2024 9:09 am
Operator : pest2:meo
Sample : L2410579-07,42,,
Misc : wg1892200,WG1892017,ical20902
ALS Vial : 18 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Mar 05 09:34:13 2024
Quant Method : I:\PCB\Pest2\2024\240305A\P2_pcb_02_29_24_LVI_ugL_ICAL20902.m
Quant Title : pcb
QLast Update : Thu Feb 29 16:00:47 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

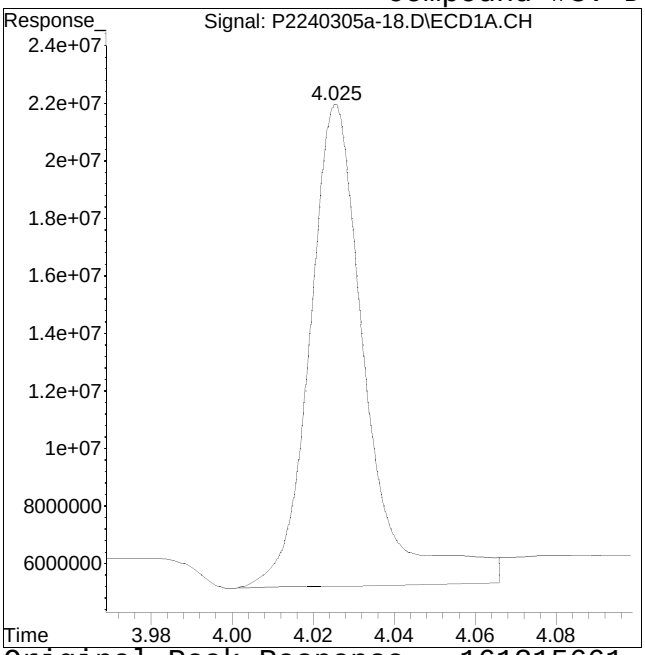
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



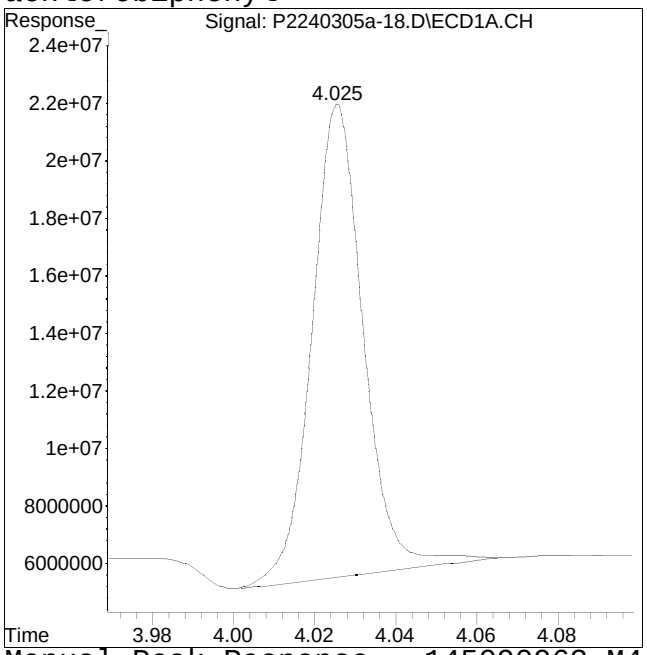
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240305a\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240305a-18.D Operator : pest2:meo
Date Inj'd : 3/5/2024 9:09 am Instrument : Pest 2
Sample : L2410579-07,42,, Quant Date : 3/5/2024 9:29 am

Compound #3: Decachlorobiphenyl



Original Peak Response = 161315661



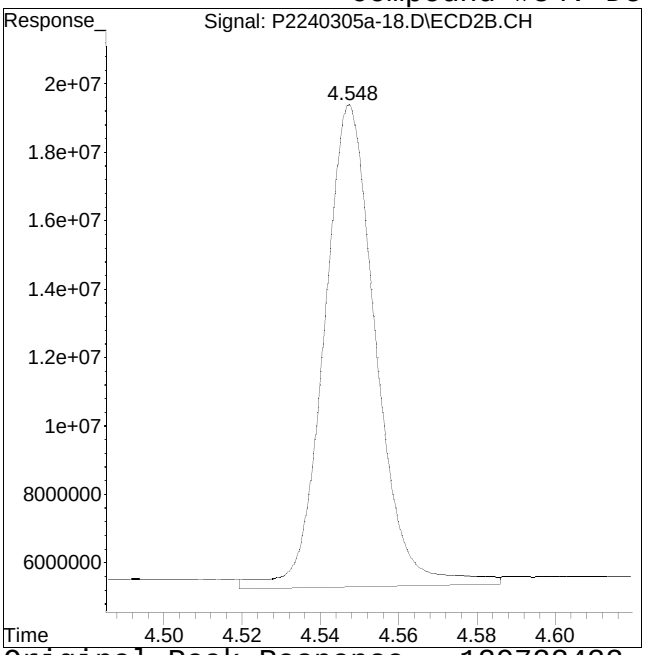
Manual Peak Response = 145090963 M4

M4 = Poor automated baseline construction.

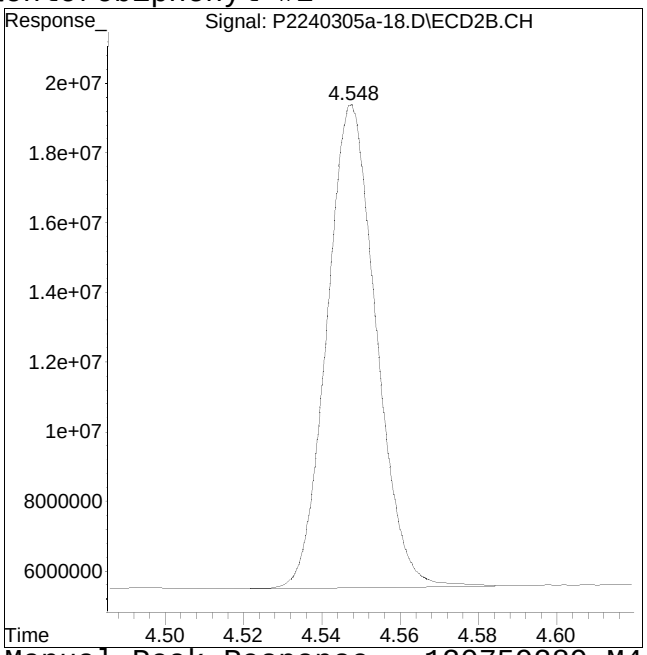
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240305a\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240305a-18.D Operator : pest2:meo
Date Inj'd : 3/5/2024 9:09 am Instrument : Pest 2
Sample : L2410579-07,42,, Quant Date : 3/5/2024 9:29 am

Compound #54: Decachlorobiphenyl #2



Original Peak Response = 129722432



Manual Peak Response = 120759289 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240305a\
Data File : P2240305a-19.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 05 Mar 2024 9:18 am
Operator : pest2:meo
Sample : L2410579-09,42,,
Misc : wg1892200,WG1892017,ical20902
ALS Vial : 19 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Mar 05 09:35:47 2024
Quant Method : I:\PCB\Pest2\2024\240305A\P2_pcb_02_29_24_LVI_ugL_ICAL20902.m
Quant Title : pcb
QLast Update : Thu Feb 29 16:00:47 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240305a\P2240305a-02.D
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards						
1) i 1660_1br2nb	1.167	1.235	232.6E6	283.3E6	25.000	25.000
Standard Area 1 : #1 = 228178279				Recovery =	101.96%	
Standard Area 1 : #2 = 242790109				Recovery =	116.70%	
14) i 2154_1br2nb	1.167	1.235	232.6E6	283.3E6	25.000	25.000
23) i 4268_1br2nb	1.167	1.235	232.6E6	283.3E6	25.000	25.000
34) i 1248_1br2nb	1.167	1.235	232.6E6	283.3E6	25.000	25.000
40) i 3262_1br2nb	1.167	1.235	232.6E6	283.3E6	25.000	25.000
System Monitoring Compounds						
2) s 2,4,5,6-Tetr	1.453	1.611	146.0E6	174.2E6	11.969	12.483
Spiked Amount 20.000	Range 30 - 150		Recovery =	59.84%	62.41%	
3) s Decachlorobi	4.026	4.548	128.5E6	111.1E6	14.557	14.789
Spiked Amount 20.000	Range 30 - 150		Recovery =	72.78%	73.94%	
Target Compounds						
4) l1 1016-1	0.000	0.000	0	0	N.D. d	N.D. d
5) l1 1016-2	0.000	0.000	0	0	N.D. d	N.D. d
6) l1 1016-3	0.000	0.000	0	0	N.D. d	N.D. d
7) l1 1016-4	0.000	0.000	0	0	N.D. d	N.D. d
8) l1 1016-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1016-1			0	0	N.D.	N.D.
Average 1016-1					0.000	0.000
9) l2 1260-1	0.000	0.000	0	0	N.D. d	N.D. d
10) l2 1260-2	0.000	0.000	0	0	N.D. d	N.D. d
11) l2 1260-3	0.000	0.000	0	0	N.D.	N.D.
12) l2 1260-4	0.000	0.000	0	0	N.D. d	N.D. d
13) l2 1260-5	0.000	0.000	0	0	N.D.	N.D.
Sum 1260-1			0	0	N.D.	N.D.
Average 1260-1					0.000	0.000
15) l3 1221-2	0.000	0.000	0	0	N.D.	N.D.
16) l3 1221-3	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PCB\Pest2\2024\240305a\
Data File : P2240305a-19.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 05 Mar 2024 9:18 am
Operator : pest2:meo
Sample : L2410579-09,42,,
Misc : wg1892200,WG1892017,ical20902
ALS Vial : 19 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Mar 05 09:35:47 2024
Quant Method : I:\PCB\Pest2\2024\240305A\P2_pcb_02_29_24_LVI_ugL_ICAL20902.m
Quant Title : pcb
QLast Update : Thu Feb 29 16:00:47 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240305a\P2240305a-02.D
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
17) l3 1221-4	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1221-2			0	0	N.D.	N.D.
Average 1221-2					0.000	0.000
18) l4 1254-1	2.313	0.000	1193826	0	2.899M4	N.D. d
19) l4 1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4 1254-3	2.609	2.974	1653679	1956913	2.314	2.487M4
21) l4 1254-4	2.739	3.084	1553463	1688780	2.818	3.305M4
22) l4 1254-5	0.000	3.362	0	1923321	N.D. d	2.687M4
Sum 1254-1			4400969	5569014	8.031	8.479
Average 1254-1					2.677	2.826
24) l6 1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6 1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6 1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6 1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6 1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1242-1			0	0	N.D.	N.D.
Average 1242-1					0.000	0.000
29) l9 1268-1	0.000	0.000	0	0	N.D.	N.D.
30) l9 1268-2	0.000	0.000	0	0	N.D.	N.D.
31) l9 1268-3	0.000	0.000	0	0	N.D. d	N.D. d
32) l9 1268-4	0.000	0.000	0	0	N.D.	N.D.
33) l9 1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1268-1			0	0	N.D.	N.D.
Average 1268-1					0.000	0.000
35) l7 1248-1	1.922	0.000	1361605	0	2.814M4	N.D. d
36) l7 1248-2	0.000	2.333	0	1342849	N.D. d	3.631M4
37) l7 1248-3	2.148	2.459	1548805	910621	2.822M4	2.005M4
38) l7 1248-4	2.332	2.633	1239143	2111492	2.508M2	4.477
39) l7 1248-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1248-1			4149553	4364961	8.143	10.113
Average 1248-1					2.714	3.371
41) l5 1232-1	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PCB\Pest2\2024\240305a\
Data File : P2240305a-19.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 05 Mar 2024 9:18 am
Operator : pest2:meo
Sample : L2410579-09,42,,
Misc : wg1892200,WG1892017,ical20902
ALS Vial : 19 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Mar 05 09:35:47 2024
Quant Method : I:\PCB\Pest2\2024\240305A\P2_pcb_02_29_24_LVI_ugL_ICAL20902.m
Quant Title : pcb
QLast Update : Thu Feb 29 16:00:47 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240305a\P2240305a-02.D
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
42) l5 1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5 1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5 1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5 1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1232-1			0	0	N.D.	N.D.
Average 1232-1					0.000	0.000
46) l8 1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8 1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8 1262-3	0.000	0.000	0	0	N.D.	N.D.
49) l8 1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50) l8 1262-5	0.000	0.000	0	0	N.D.	N.D.
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument						
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000

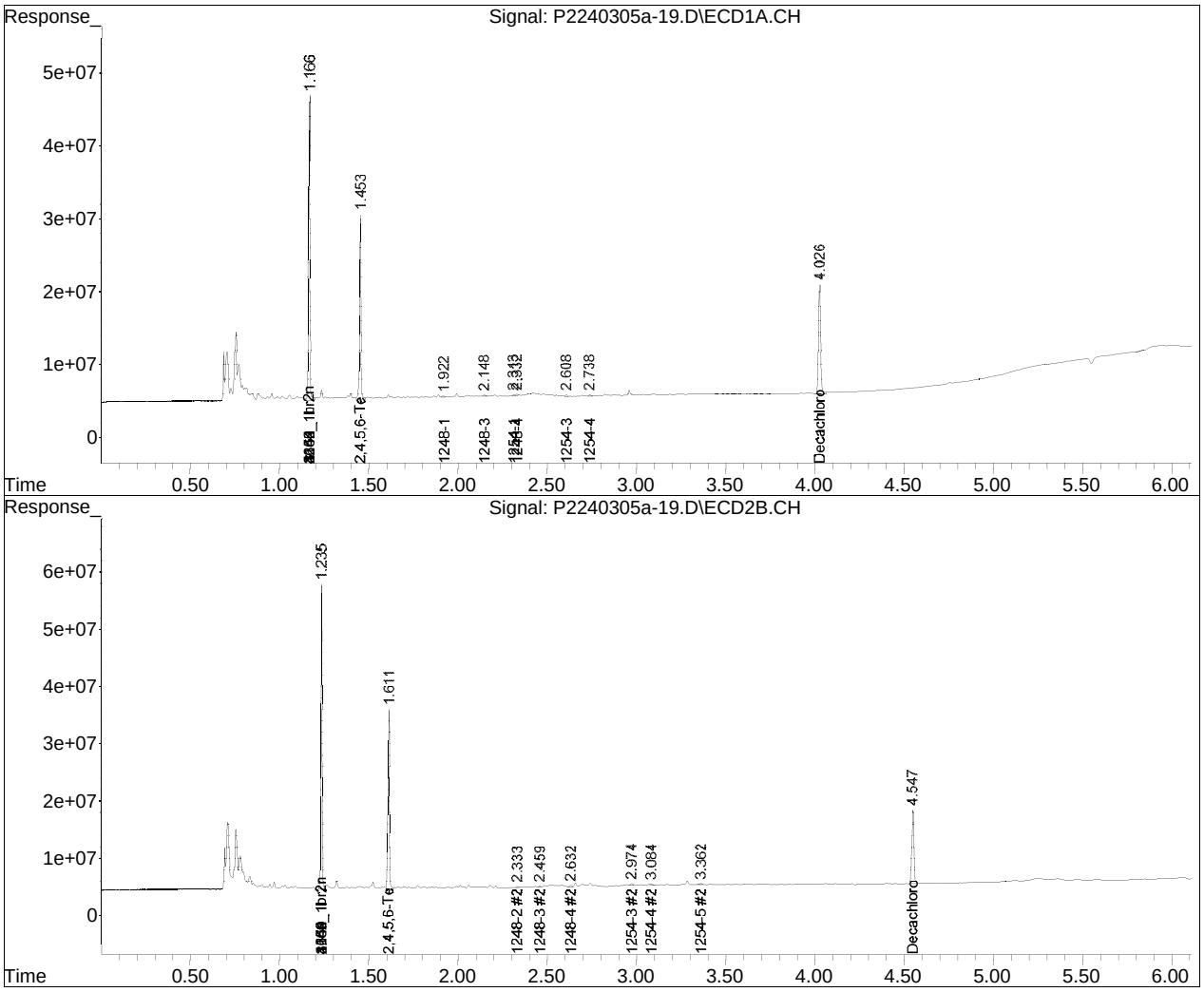
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.

Sub List : Default - All compounds listedP2240305a-02.D••

Data Path : I:\PCB\Pest2\2024\240305a\
Data File : P2240305a-19.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 05 Mar 2024 9:18 am
Operator : pest2:meo
Sample : L2410579-09,42,,
Misc : wg1892200,WG1892017,ical20902
ALS Vial : 19 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Mar 05 09:35:47 2024
Quant Method : I:\PCB\Pest2\2024\240305A\P2_pcb_02_29_24_LVI_ugL_ICAL20902.m
Quant Title : pcb
QLast Update : Thu Feb 29 16:00:47 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

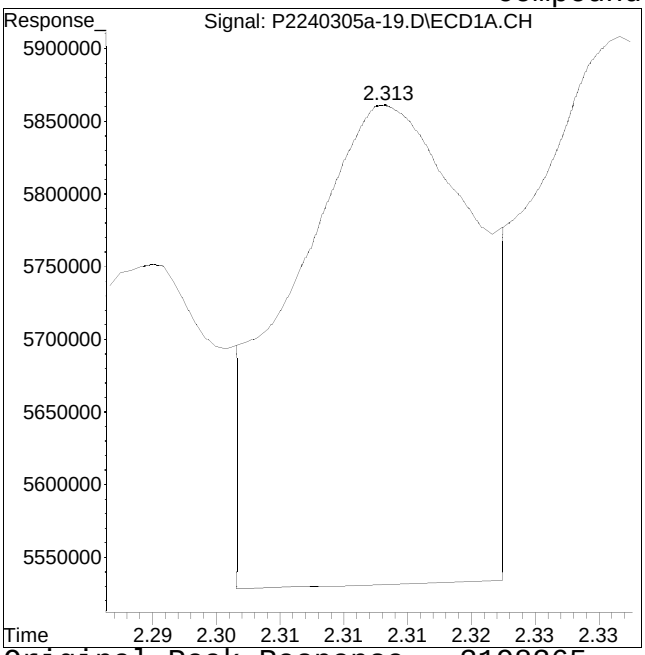
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



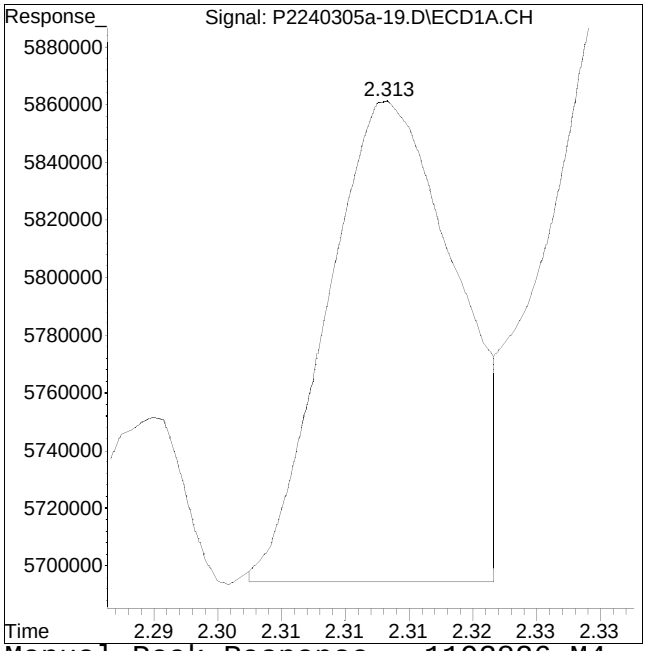
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240305a\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240305a-19.D Operator : pest2:meo
Date Inj'd : 3/5/2024 9:18 am Instrument : Pest 2
Sample : L2410579-09,42,, Quant Date : 3/5/2024 9:29 am

Compound #18: 1254-1



Original Peak Response = 3198365



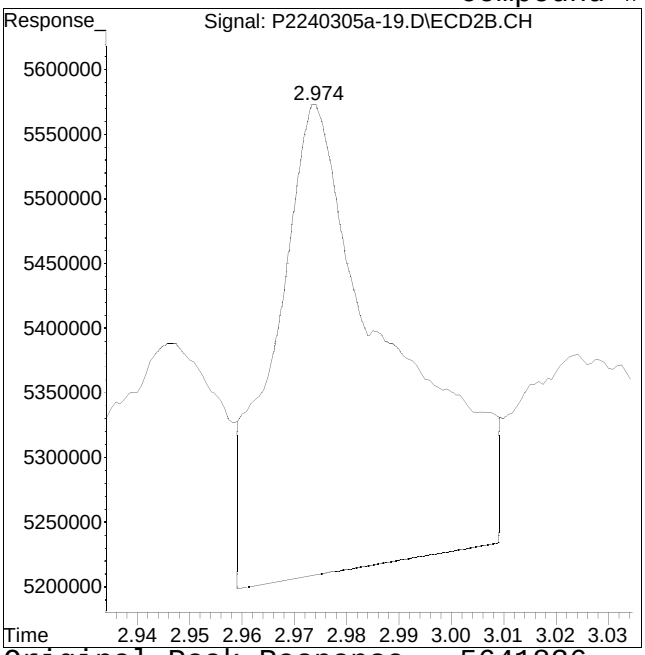
Manual Peak Response = 1193826 M4

M4 = Poor automated baseline construction.

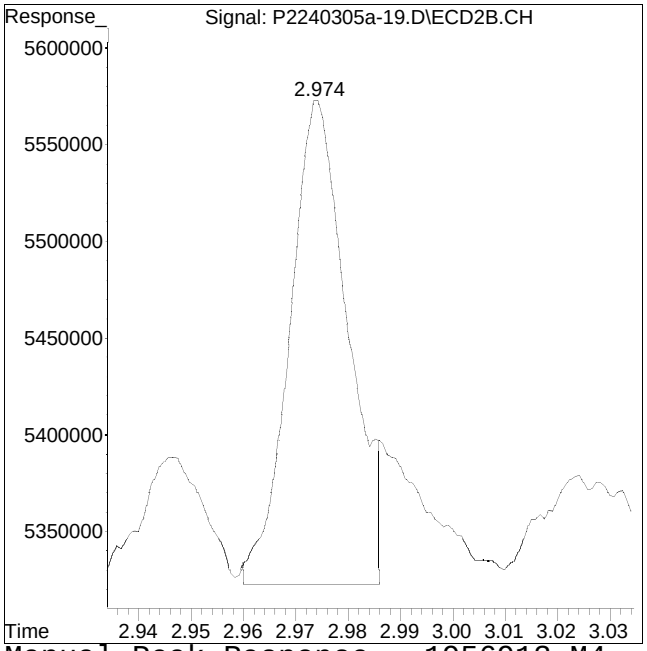
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240305a\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240305a-19.D Operator : pest2:meo
Date Inj'd : 3/5/2024 9:18 am Instrument : Pest 2
Sample : L2410579-09,42,, Quant Date : 3/5/2024 9:29 am

Compound #71: 1254-3 #2



Original Peak Response = 5641836



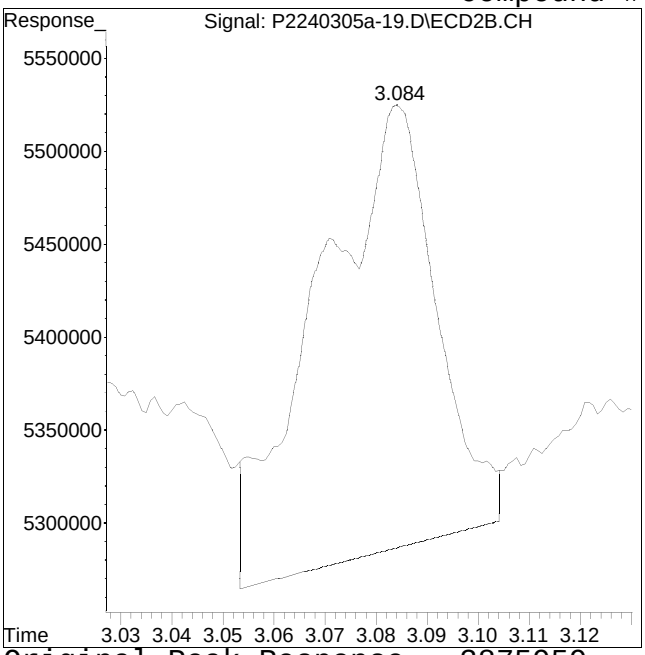
Manual Peak Response = 1956913 M4

M4 = Poor automated baseline construction.

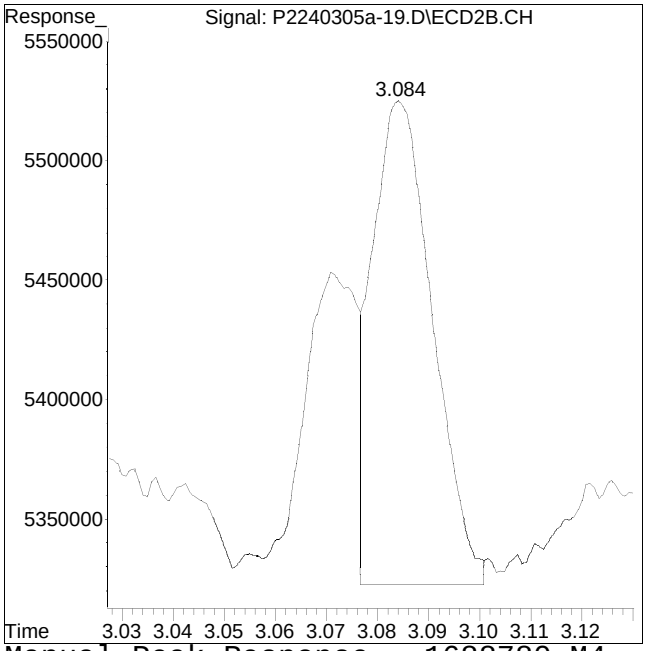
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240305a\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240305a-19.D Operator : pest2:meo
Date Inj'd : 3/5/2024 9:18 am Instrument : Pest 2
Sample : L2410579-09,42,, Quant Date : 3/5/2024 9:29 am

Compound #72: 1254-4 #2



Original Peak Response = 3875959



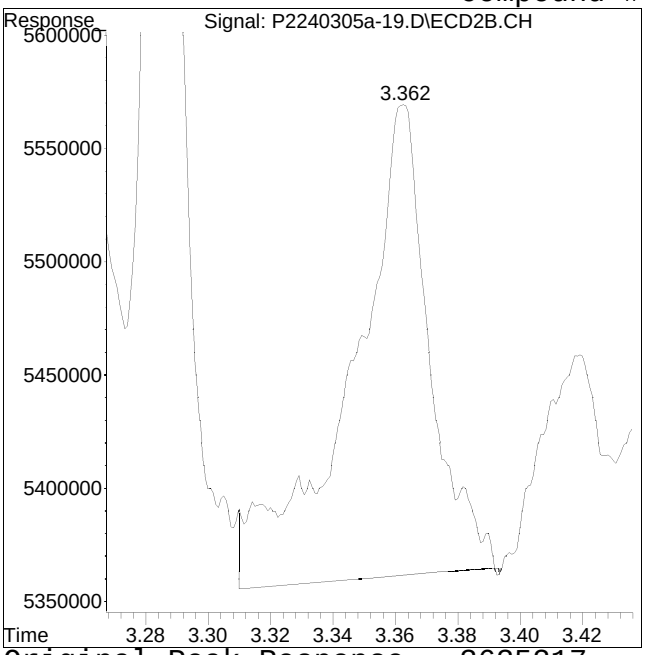
Manual Peak Response = 1688780 M4

M4 = Poor automated baseline construction.

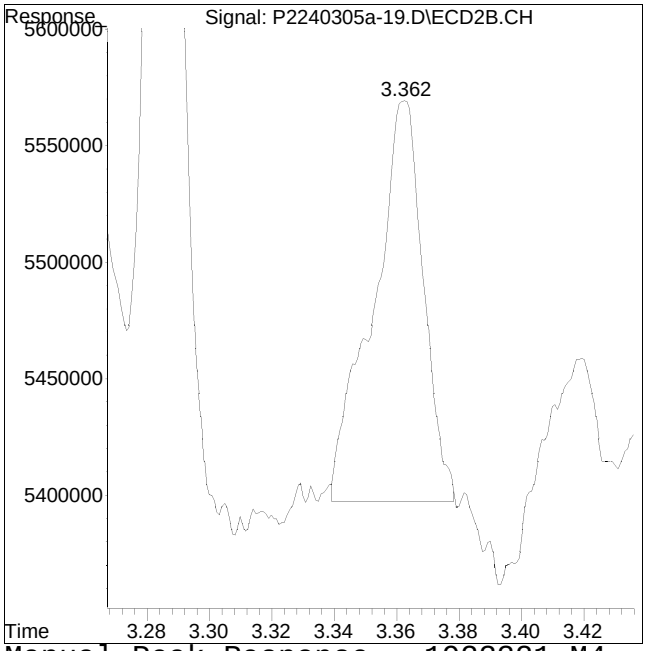
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240305a\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240305a-19.D Operator : pest2:meo
Date Inj'd : 3/5/2024 9:18 am Instrument : Pest 2
Sample : L2410579-09,42,, Quant Date : 3/5/2024 9:29 am

Compound #73: 1254-5 #2



Original Peak Response = 3635217



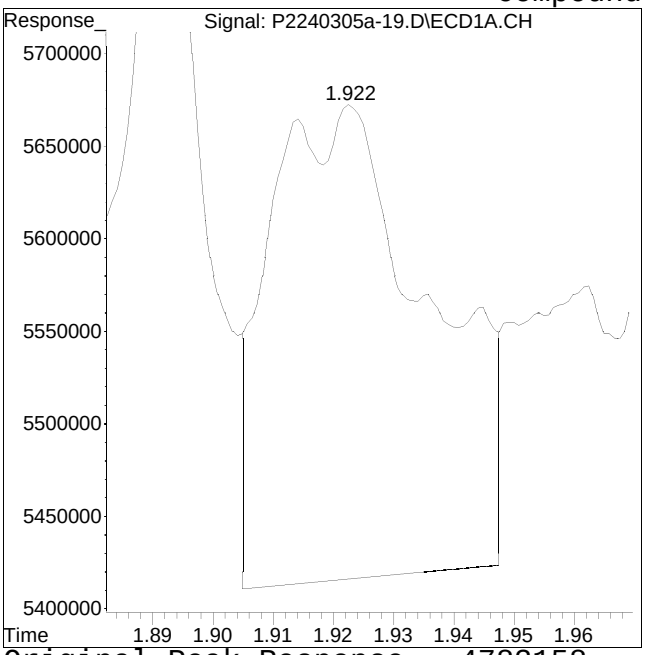
Manual Peak Response = 1923321 M4

M4 = Poor automated baseline construction.

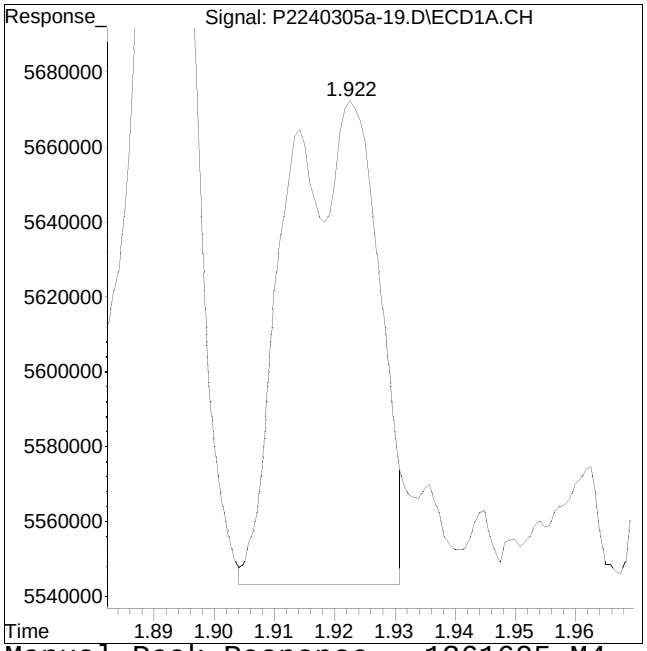
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240305a\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240305a-19.D Operator : pest2:meo
Date Inj'd : 3/5/2024 9:18 am Instrument : Pest 2
Sample : L2410579-09,42,, Quant Date : 3/5/2024 9:29 am

Compound #35: 1248-1



Original Peak Response = 4783158



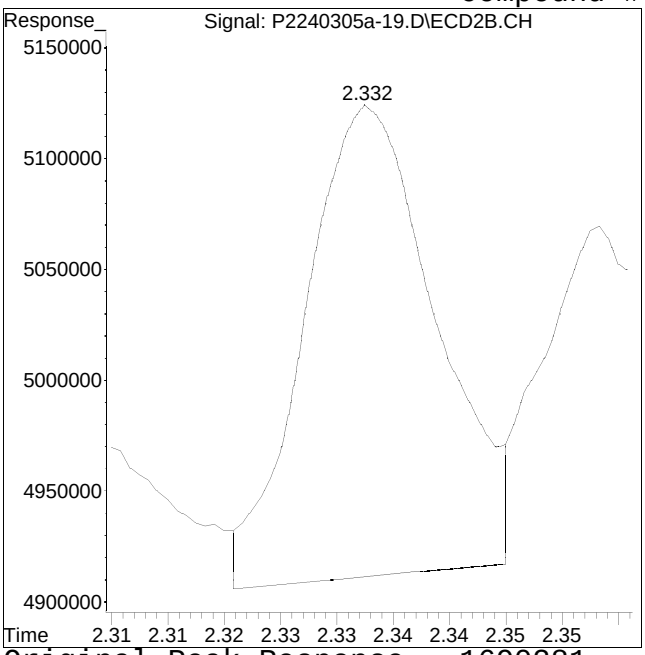
Manual Peak Response = 1361605 M4

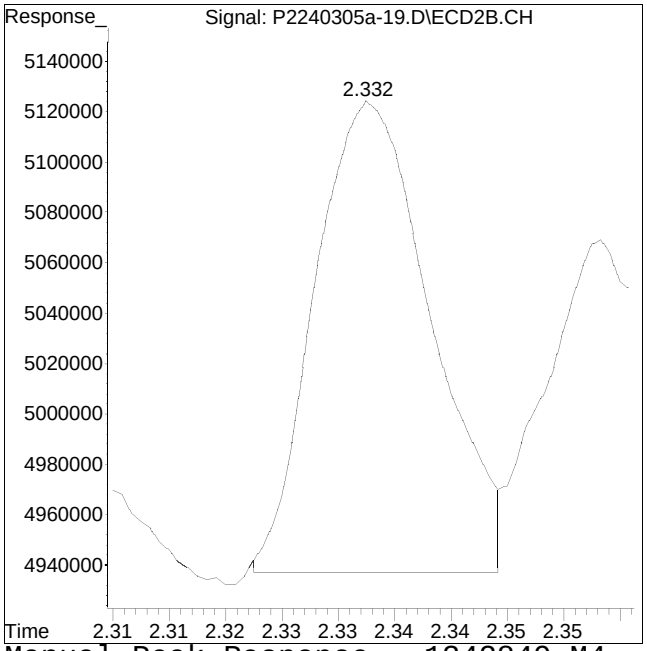
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240305a\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240305a-19.D Operator : pest2:meo
Date Inj'd : 3/5/2024 9:18 am Instrument : Pest 2
Sample : L2410579-09,42,, Quant Date : 3/5/2024 9:29 am

Compound #87: 1248-2 #2



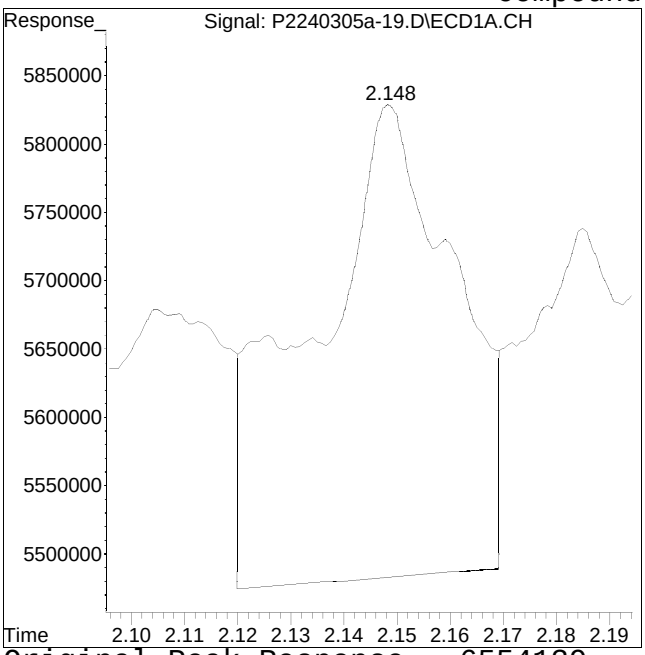


Original Peak Response = 1690281 Manual Peak Response = 1342849 M4
M4 = Poor automated baseline construction.

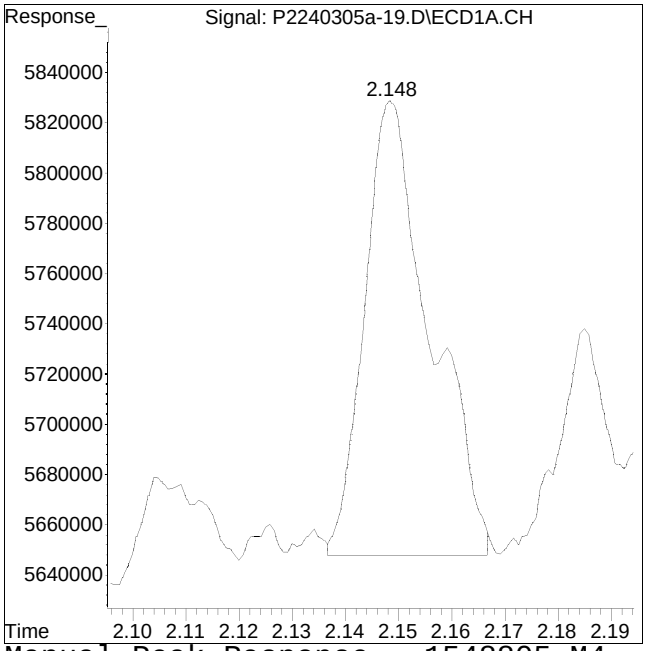
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240305a\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240305a-19.D Operator : pest2:meo
Date Inj'd : 3/5/2024 9:18 am Instrument : Pest 2
Sample : L2410579-09,42,, Quant Date : 3/5/2024 9:29 am

Compound #37: 1248-3



Original Peak Response = 6554139



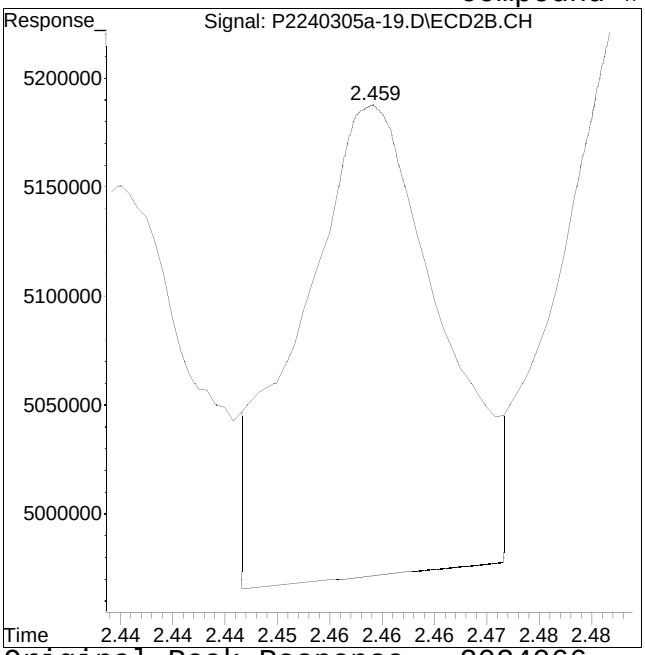
Manual Peak Response = 1548805 M4

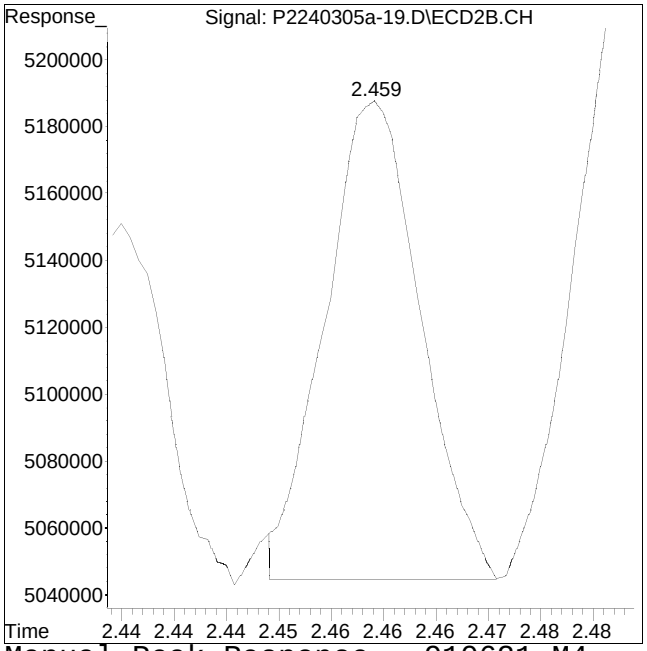
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240305a\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240305a-19.D Operator : pest2:meo
Date Inj'd : 3/5/2024 9:18 am Instrument : Pest 2
Sample : L2410579-09,42,, Quant Date : 3/5/2024 9:29 am

Compound #88: 1248-3 #2



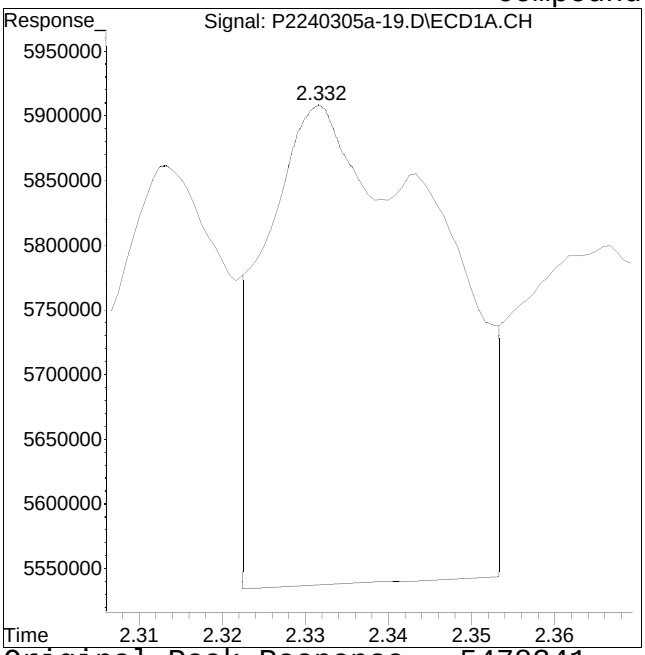


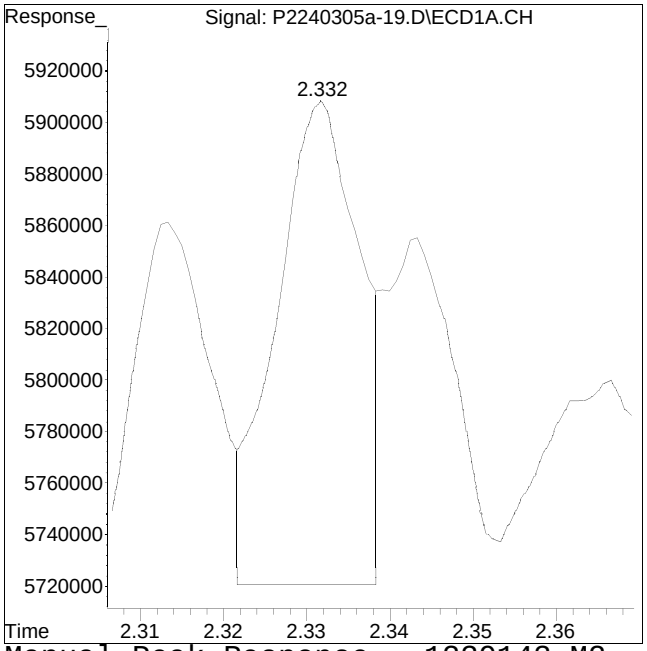
Original Peak Response = 2024066 Manual Peak Response = 910621 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240305a\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240305a-19.D Operator : pest2:meo
Date Inj'd : 3/5/2024 9:18 am Instrument : Pest 2
Sample : L2410579-09,42,, Quant Date : 3/5/2024 9:29 am

Compound #38: 1248-4





Original Peak Response = 5478341 Manual Peak Response = 1239143 M2
M2 = Peak not found by automatic integration algorithm.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240305a\
Data File : P2240305a-20.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 05 Mar 2024 9:28 am
Operator : pest2:meo
Sample : L2410579-10,42,,
Misc : wg1892200,WG1892017,ical20902
ALS Vial : 20 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Mar 05 09:36:56 2024
Quant Method : I:\PCB\Pest2\2024\240305A\P2_pcb_02_29_24_LVI_ugL_ICAL20902.m
Quant Title : pcb
QLast Update : Thu Feb 29 16:00:47 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240305a\P2240305a-02.D
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards						
1) i 1660_1br2nb	1.167	1.235	236.0E6	286.8E6	25.000	25.000
Standard Area 1 : #1 = 228178279				Recovery =	103.45%	
Standard Area 1 : #2 = 242790109				Recovery =	118.13%	
14) i 2154_1br2nb	1.167	1.235	236.0E6	286.8E6	25.000	25.000
23) i 4268_1br2nb	1.167	1.235	236.0E6	286.8E6	25.000	25.000
34) i 1248_1br2nb	1.167	1.235	236.0E6	286.8E6	25.000	25.000
40) i 3262_1br2nb	1.167	1.235	236.0E6	286.8E6	25.000	25.000
System Monitoring Compounds						
2) s 2,4,5,6-Tetr	1.453	1.611	157.5E6	185.7E6	12.734	13.146
Spiked Amount 20.000	Range 30 - 150		Recovery =	63.67%	65.73%	
3) s Decachlorobi	4.026	4.549	86698166	75992044	9.676	9.990
Spiked Amount 20.000	Range 30 - 150		Recovery =	48.38%	49.95%	
Target Compounds						
4) l1 1016-1	0.000	0.000	0	0	N.D. d	N.D. d
5) l1 1016-2	0.000	0.000	0	0	N.D. d	N.D. d
6) l1 1016-3	0.000	0.000	0	0	N.D. d	N.D. d
7) l1 1016-4	0.000	0.000	0	0	N.D. d	N.D. d
8) l1 1016-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1016-1			0	0	N.D.	N.D.
Average 1016-1					0.000	0.000
9) l2 1260-1	0.000	0.000	0	0	N.D. d	N.D. d
10) l2 1260-2	0.000	0.000	0	0	N.D. d	N.D. d
11) l2 1260-3	0.000	0.000	0	0	N.D.	N.D.
12) l2 1260-4	0.000	0.000	0	0	N.D. d	N.D. d
13) l2 1260-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1260-1			0	0	N.D.	N.D.
Average 1260-1					0.000	0.000
15) l3 1221-2	0.000	0.000	0	0	N.D. d	N.D. d
16) l3 1221-3	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PCB\Pest2\2024\240305a\
Data File : P2240305a-20.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 05 Mar 2024 9:28 am
Operator : pest2:meo
Sample : L2410579-10,42,,
Misc : wg1892200,WG1892017,ical20902
ALS Vial : 20 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Mar 05 09:36:56 2024
Quant Method : I:\PCB\Pest2\2024\240305A\P2_pcb_02_29_24_LVI_ugL_ICAL20902.m
Quant Title : pcb
QLast Update : Thu Feb 29 16:00:47 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240305a\P2240305a-02.D
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
17) l3 1221-4	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1221-2			0	0	N.D.	N.D.
Average 1221-2					0.000	0.000
18) l4 1254-1	2.313	0.000	1060668	0	2.539M4	N.D. d
19) l4 1254-2	0.000	2.744	0	1405173	N.D. d	2.477M4
20) l4 1254-3	2.609	2.974	1435904	1399011	1.981	1.756M4
21) l4 1254-4	2.739	3.085	1691382	1450340	3.024	2.804M4
22) l4 1254-5	0.000	3.360	0	1573421	N.D. d	2.172M4
Sum 1254-1			4187954	5827945	7.543	9.210
Average 1254-1					2.514	2.302
24) l6 1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6 1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6 1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6 1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6 1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1242-1			0	0	N.D.	N.D.
Average 1242-1					0.000	0.000
29) l9 1268-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l9 1268-2	0.000	0.000	0	0	N.D.	N.D.
31) l9 1268-3	0.000	0.000	0	0	N.D. d	N.D. d
32) l9 1268-4	0.000	0.000	0	0	N.D.	N.D.
33) l9 1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1268-1			0	0	N.D.	N.D.
Average 1268-1					0.000	0.000
35) l7 1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7 1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7 1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7 1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7 1248-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1248-1			0	0	N.D.	N.D.
Average 1248-1					0.000	0.000
41) l5 1232-1	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PCB\Pest2\2024\240305a\
Data File : P2240305a-20.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 05 Mar 2024 9:28 am
Operator : pest2:meo
Sample : L2410579-10,42,,
Misc : wg1892200,WG1892017,ical20902
ALS Vial : 20 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Mar 05 09:36:56 2024
Quant Method : I:\PCB\Pest2\2024\240305A\P2_pcb_02_29_24_LVI_ugL_ICAL20902.m
Quant Title : pcb
QLast Update : Thu Feb 29 16:00:47 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240305a\P2240305a-02.D
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
42) l5 1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5 1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5 1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5 1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1232-1			0	0	N.D.	N.D.
Average 1232-1					0.000	0.000
46) l8 1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8 1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8 1262-3	0.000	0.000	0	0	N.D.	N.D.
49) l8 1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50) l8 1262-5	0.000	0.000	0	0	N.D.	N.D.
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument						
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000

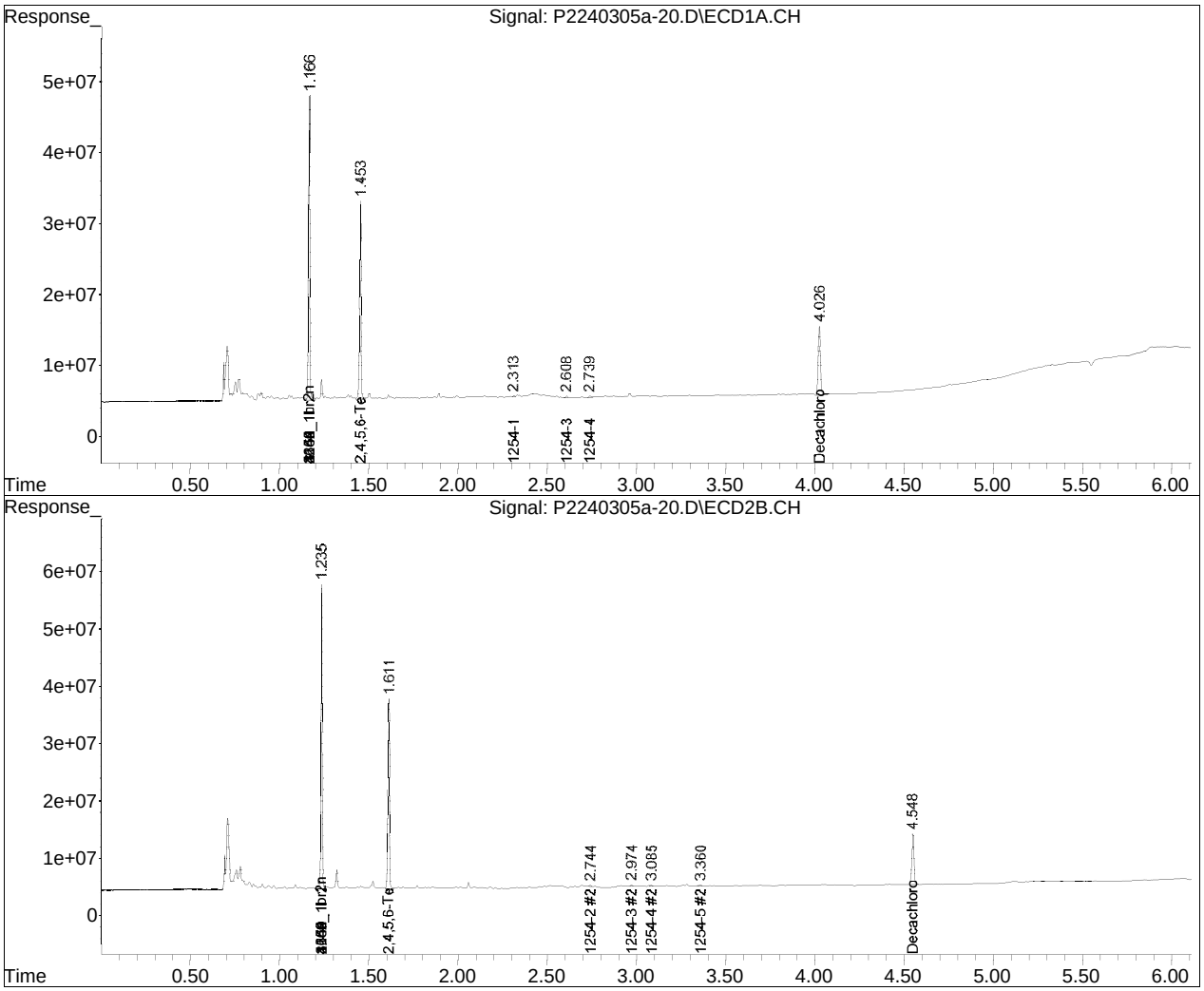
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listedP2240305a-02.D••

Data Path : I:\PCB\Pest2\2024\240305a\
Data File : P2240305a-20.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 05 Mar 2024 9:28 am
Operator : pest2:meo
Sample : L2410579-10,42,,
Misc : wg1892200,WG1892017,ical20902
ALS Vial : 20 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Mar 05 09:36:56 2024
Quant Method : I:\PCB\Pest2\2024\240305A\P2_pcb_02_29_24_LVI_ugL_ICAL20902.m
Quant Title : pcb
QLast Update : Thu Feb 29 16:00:47 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

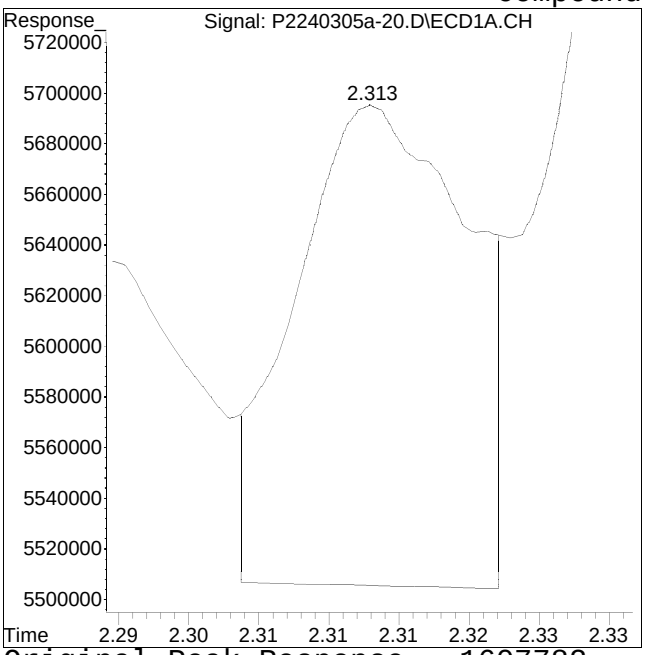
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



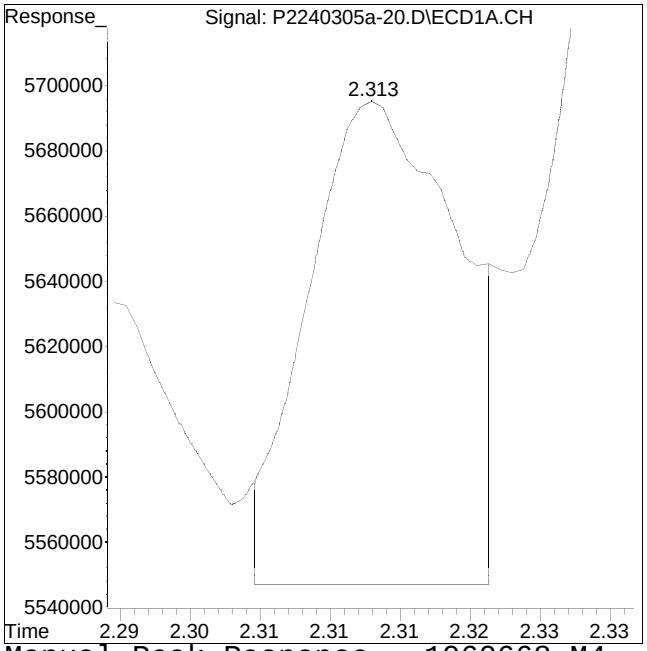
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240305a\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240305a-20.D Operator : pest2:meo
Date Inj'd : 3/5/2024 9:28 am Instrument : Pest 2
Sample : L2410579-10,42,, Quant Date : 3/5/2024 9:36 am

Compound #18: 1254-1



Original Peak Response = 1607782



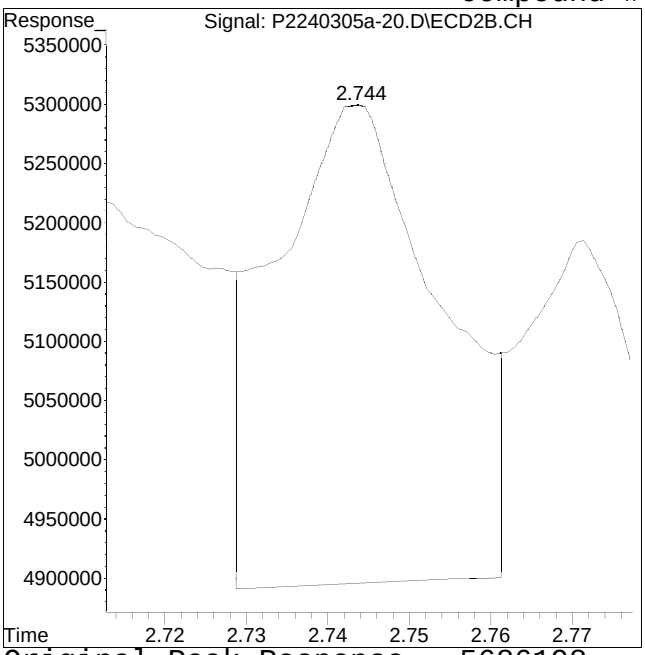
Manual Peak Response = 1060668 M4

M4 = Poor automated baseline construction.

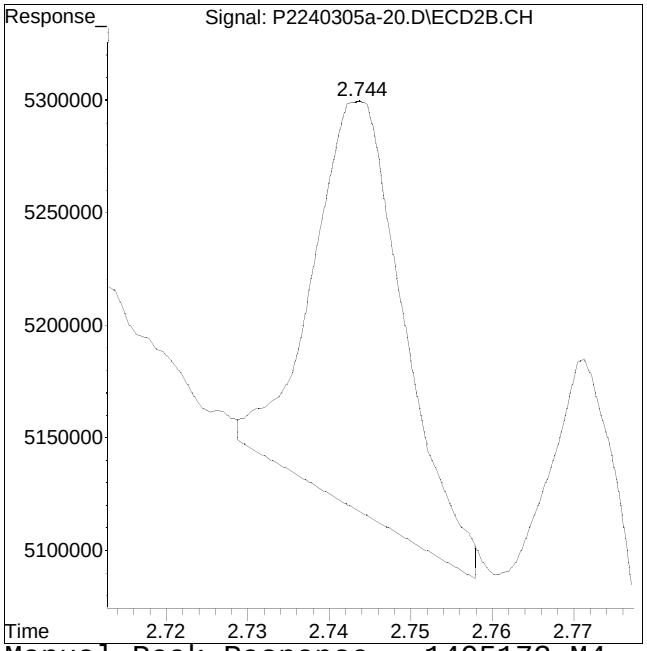
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240305a\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240305a-20.D Operator : pest2:meo
Date Inj'd : 3/5/2024 9:28 am Instrument : Pest 2
Sample : L2410579-10,42,, Quant Date : 3/5/2024 9:36 am

Compound #70: 1254-2 #2



Original Peak Response = 5686198



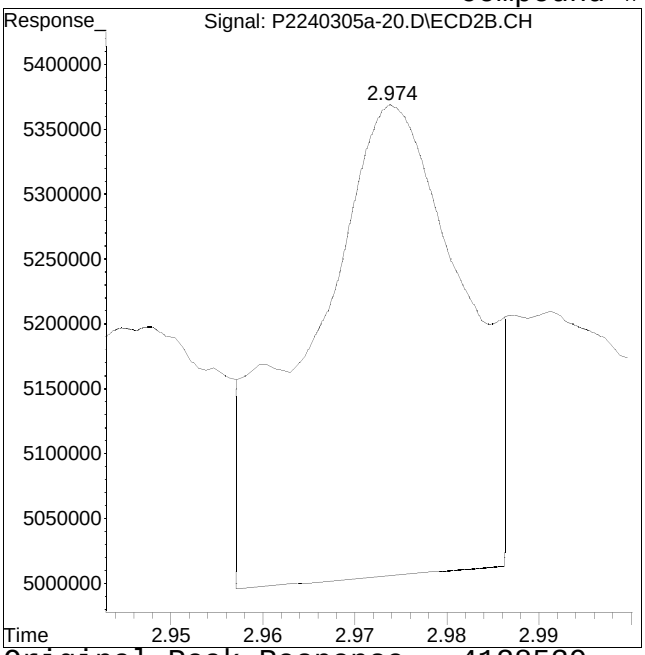
Manual Peak Response = 1405173 M4

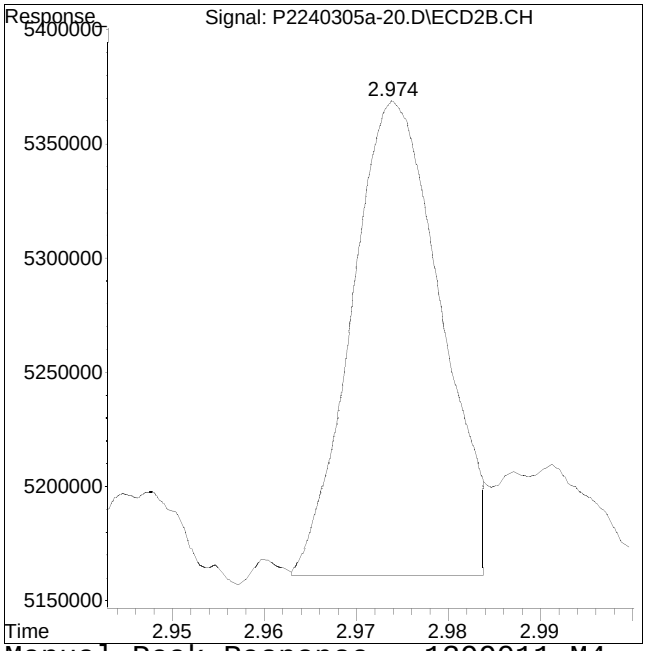
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240305a\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240305a-20.D Operator : pest2:meo
Date Inj'd : 3/5/2024 9:28 am Instrument : Pest 2
Sample : L2410579-10,42,, Quant Date : 3/5/2024 9:36 am

Compound #71: 1254-3 #2



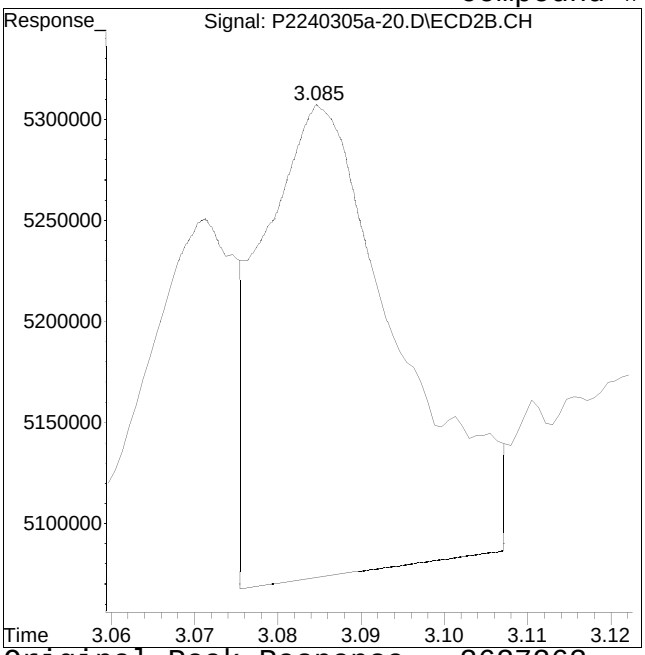


Original Peak Response = 4128539 Manual Peak Response = 1399011 M4
M4 = Poor automated baseline construction.

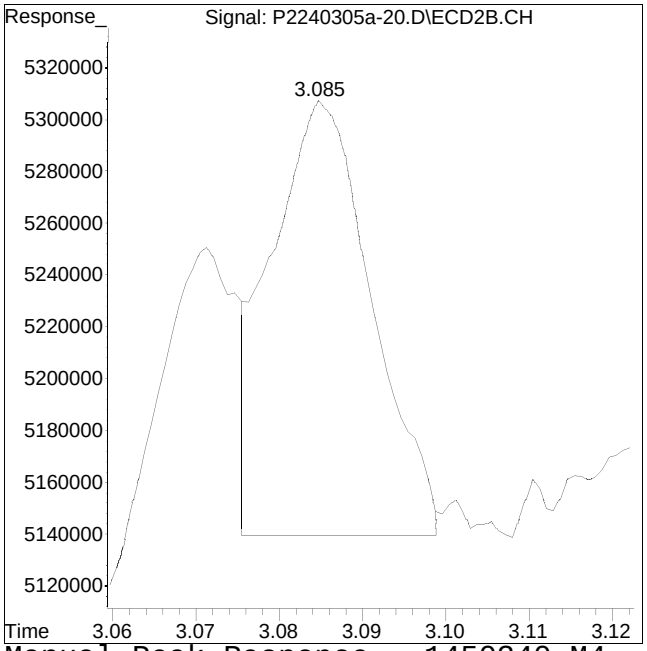
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240305a\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240305a-20.D Operator : pest2:meo
Date Inj'd : 3/5/2024 9:28 am Instrument : Pest 2
Sample : L2410579-10,42,, Quant Date : 3/5/2024 9:36 am

Compound #72: 1254-4 #2



Original Peak Response = 2627263



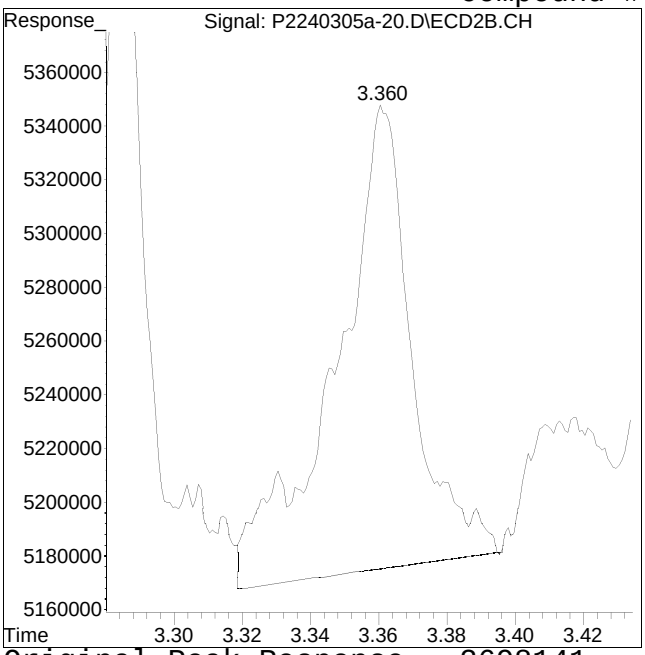
Manual Peak Response = 1450340 M4

M4 = Poor automated baseline construction.

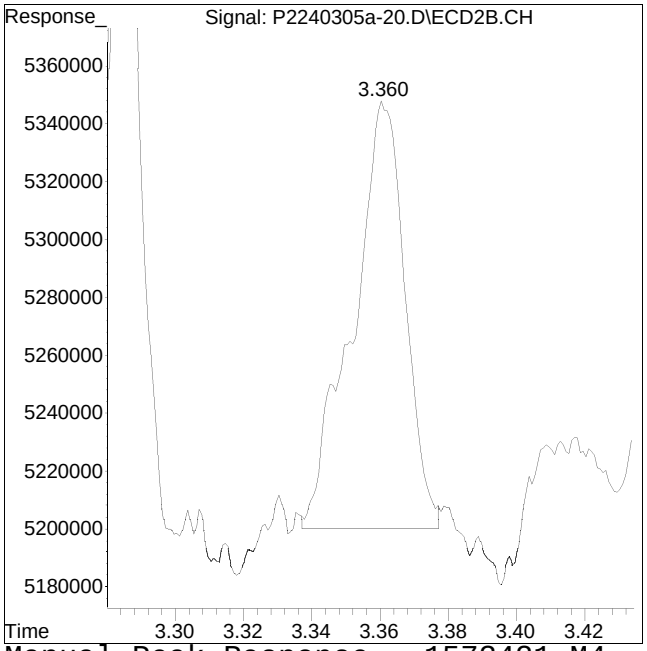
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240305a\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240305a-20.D Operator : pest2:meo
Date Inj'd : 3/5/2024 9:28 am Instrument : Pest 2
Sample : L2410579-10,42,, Quant Date : 3/5/2024 9:36 am

Compound #73: 1254-5 #2



Original Peak Response = 2698141



Manual Peak Response = 1573421 M4

M4 = Poor automated baseline construction.

Aroclor Standards Data

Initial Calibration

Initial Calibration Summary
Form 6
PCBs

Client	**: Alpha Geoscience**	**Lab Number**	**: L2410579**
Project Name	**: HUNTINGTON READY MIX**	**Project Number**	**: 20116**
Instrument ID	**: PEST2**	**Ical Ref**	**: ICAL20902**
Calibration dates	**: 02/29/24 12:37 02/29/24 14:01**		

Calibration Files
1 =P2240229i-08.D 2 =P2240229i-09.D 3 =P2240229i-10.D 4 =P2240229i-07.D 5 =P2240229i-12.D
6 =P2240229i-13.D

		Compound	1	2	3	4	5	6	Avg	%RSD
1)	i	1660_1br2nb	----------ISTD----------							
2)	s	2,4,5,6-Tetra	1.269	1.325	1.377	1.284	1.294	1.313	1.310	2.92
3)	s	Decachlorobip	1.125	0.945	0.995	0.878	0.875	0.876	0.949	10.45
4)	l1	1016-1	0.024	0.023	0.025	0.022	0.021	0.021	0.023	7.70
5)	l1	1016-2	0.029	0.044	0.050	0.046	0.044	0.043	0.043	17.24
6)	l1	1016-3	0.108	0.102	0.110	0.099	0.098	0.098	0.103	4.88
7)	l1	1016-4	0.046	0.048	0.047	0.043	0.041	0.041	0.044	7.06
8)	l1	1016-5	0.050	0.046	0.049	0.043	0.042	0.042	0.045	7.63
9)	l2	1260-1	0.074	0.069	0.072	0.064	0.062	0.060	0.067	8.45
10)	l2	1260-2	0.111	0.100	0.109	0.095	0.093	0.092	0.100	8.33
11)	l2	1260-3	0.067	0.062	0.068	0.060	0.059	0.059	0.063	6.44
12)	l2	1260-4	0.126	0.131	0.140	0.126	0.128	0.128	0.130	3.92
13)	l2	1260-5	0.102	0.096	0.101	0.091	0.092	0.093	0.096	4.97
14)	i	2154_1br2nb	----------ISTD----------							
15)	l3	1221-2				0.013			0.013	0.00
16)	l3	1221-3				0.008			0.008	0.00
17)	l3	1221-4				0.031			0.031	0.00
18)	l4	1254-1				0.044			0.044	0.00
19)	l4	1254-2				0.082			0.082	0.00
20)	l4	1254-3				0.077			0.077	0.00
21)	l4	1254-4				0.059			0.059	0.00
22)	l4	1254-5				0.082			0.082	0.00
23)	i	4268_1br2nb	----------ISTD----------							
24)	l6	1242-1				0.017			0.017	0.00
25)	l6	1242-2				0.036			0.036	0.00
26)	l6	1242-3				0.077			0.077	0.00
27)	l6	1242-4				0.033			0.033	0.00
28)	l6	1242-5				0.025			0.025	0.00
29)	l9	1268-1				0.165			0.165	0.00
30)	l9	1268-2				0.151			0.151	0.00
31)	l9	1268-3				0.123			0.123	0.00
32)	l9	1268-4				0.054			0.054	0.00
33)	l9	1268-5				0.386			0.386	0.00
34)	i	1248_1br2nb	----------ISTD----------							
35)	l7	1248-1				0.052			0.052	0.00
36)	l7	1248-2				0.067			0.067	0.00

Initial Calibration Summary
Form 6
PCBs

Client	**: Alpha Geoscience**	**Lab Number**	**: L2410579**
Project Name	**: HUNTINGTON READY MIX**	**Project Number**	**: 20116**
Instrument ID	**: PEST2**	**Ical Ref**	**: ICAL20902**
Calibration dates	**: 02/29/24 12:37 02/29/24 14:01**		

Calibration Files
1 =P2240229i-08.D 2 =P2240229i-09.D 3 =P2240229i-10.D 4 =P2240229i-07.D 5 =P2240229i-12.D
6 =P2240229i-13.D

Compound	1	2	3	4	5	6	Avg	%RSD
37) l7 1248-3				0.059			0.059	0.00
38) l7 1248-4				0.053			0.053	0.00
39) l7 1248-5				0.045			0.045	0.00
40) i 3262_1br2nb	----------ISTD----------							
41) l5 1232-1				0.023			0.023	0.00
42) l5 1232-2				0.021			0.021	0.00
43) l5 1232-3				0.043			0.043	0.00
44) l5 1232-4				0.018			0.018	0.00
45) l5 1232-5				0.013			0.013	0.00
46) l8 1262-1				0.065			0.065	0.00
47) l8 1262-2				0.081			0.081	0.00
48) l8 1262-3				0.071			0.071	0.00
49) l8 1262-4				0.139			0.139	0.00
50) l8 1262-5				0.045			0.045	0.00

Initial Calibration Summary
Form 6
PCBs

Client	**: Alpha Geoscience**	**Lab Number**	**: L2410579**
Project Name	**: HUNTINGTON READY MIX**	**Project Number**	**: 20116**
Instrument ID	**: PEST2**	**Ical Ref**	**: ICAL20902**
Calibration dates	**: 02/29/24 12:37 02/29/24 14:01**		

Signal #2 Calibration Files

1 =P2240229i-08.D 2 =P2240229i-09.D 3 =P2240229i-10.D 4 =P2240229i-07.D 5 =P2240229i-12.D

6 =P2240229i-13.D

		Compound	1	2	3	4	5	6	Avg	%RSD
1)	i	1660_1br2nb	----------ISTD----------							
2)	s	2,4,5,6-Tetra	1.204	1.289	1.304	1.205	1.211	1.173	1.231	4.29
3)	s	Decachlorobip	0.805	0.690	0.702	0.608	0.601	0.571	0.663	13.10
4)	l1	1016-1	0.023	0.022	0.024	0.020	0.020	0.019	0.021	9.08
5)	l1	1016-2	0.052	0.049	0.052	0.046	0.043	0.041	0.047	9.54
6)	l1	1016-3	0.107	0.095	0.100	0.090	0.090	0.084	0.094	8.68
7)	l1	1016-4	0.044	0.038	0.040	0.035	0.036	0.033	0.038	9.95
8)	l1	1016-5	0.030	0.029	0.032	0.028	0.028	0.027	0.029	6.44
9)	l2	1260-1	0.056	0.046	0.057	0.049	0.049	0.045	0.050	9.90
10)	l2	1260-2	0.077	0.064	0.066	0.057	0.057	0.053	0.062	13.87
11)	l2	1260-3	0.050	0.055	0.054	0.049	0.047	0.045	0.050	7.84
12)	l2	1260-4	0.114	0.104	0.113	0.097	0.097	0.093	0.103	8.60
13)	l2	1260-5	0.079	0.074	0.076	0.066	0.066	0.064	0.071	9.09
14)	i	2154_1br2nb	----------ISTD----------							
15)	l3	1221-2				0.013			0.013	0.00
16)	l3	1221-3				0.008			0.008	0.00
17)	l3	1221-4				0.029			0.029	0.00
18)	l4	1254-1				0.018			0.018	0.00
19)	l4	1254-2				0.049			0.049	0.00
20)	l4	1254-3				0.069			0.069	0.00
21)	l4	1254-4				0.045			0.045	0.00
22)	l4	1254-5				0.063			0.063	0.00
23)	i	4268_1br2nb	----------ISTD----------							
24)	l6	1242-1				0.017			0.017	0.00
25)	l6	1242-2				0.038			0.038	0.00
26)	l6	1242-3				0.072			0.072	0.00
27)	l6	1242-4				0.028			0.028	0.00
28)	l6	1242-5				0.021			0.021	0.00
29)	l9	1268-1				0.121			0.121	0.00
30)	l9	1268-2				0.108			0.108	0.00
31)	l9	1268-3				0.091			0.091	0.00
32)	l9	1268-4				0.038			0.038	0.00
33)	l9	1268-5				0.279			0.279	0.00
34)	i	1248_1br2nb	----------ISTD----------							
35)	l7	1248-1				0.049			0.049	0.00
36)	l7	1248-2				0.033			0.033	0.00

Initial Calibration Summary
Form 6
PCBs

Client	**: Alpha Geoscience**	**Lab Number**	**: L2410579**
Project Name	**: HUNTINGTON READY MIX**	**Project Number**	**: 20116**
Instrument ID	**: PEST2**	**Ical Ref**	**: ICAL20902**
Calibration dates	**: 02/29/24 12:37 02/29/24 14:01**		

Signal #2 Calibration Files

1 =P2240229i-08.D 2 =P2240229i-09.D 3 =P2240229i-10.D 4 =P2240229i-07.D 5 =P2240229i-12.D

6 =P2240229i-13.D

	Compound	1	2	3	4	5	6	Avg	%RSD
37) l7	1248-3				0.040			0.040	0.00
38) l7	1248-4				0.042			0.042	0.00
39) l7	1248-5				0.048			0.048	0.00
40) i	3262_1br2nb				----------ISTD----------				
41) l5	1232-1				0.023			0.023	0.00
42) l5	1232-2				0.023			0.023	0.00
43) l5	1232-3				0.042			0.042	0.00
44) l5	1232-4				0.016			0.016	0.00
45) l5	1232-5				0.012			0.012	0.00
46) l8	1262-1				0.045			0.045	0.00
47) l8	1262-2				0.061			0.061	0.00
48) l8	1262-3				0.056			0.056	0.00
49) l8	1262-4				0.104			0.104	0.00
50) l8	1262-5				0.037			0.037	0.00

Response Factor Report Pest 2

Method Path : I:\PCB\Pest2\2024\240229I\
Method File : P2_pcb_02_29_24_LVI_ugL_ICAL.m
Title : pcb
Last Update : Thu Feb 29 16:00:47 2024
Response Via : Initial Calibration

Calibration Files
1 =P2240229i-08.D 2 =P2240229i-09.D 3 =P2240229i-10.D 4 =P2240229i-07.D 5 =P2240229i-12.D
6 =P2240229i-13.D

		Compound	1	2	3	4	5	6	Avg	%RSD
1)	i	1660_1br2nb	----------ISTD----------							
2)	s	2,4,5,6-Tetra...	1.269	1.325	1.377	1.284	1.294	1.313	1.310	2.92
3)	s	Decachlorobip...	1.125	0.945	0.995	0.878	0.875	0.876	0.949	10.45
4)	l1	1016-1	0.024	0.023	0.025	0.022	0.021	0.021	0.023	7.70
5)	l1	1016-2	0.029	0.044	0.050	0.046	0.044	0.043	0.043	17.24
6)	l1	1016-3	0.108	0.102	0.110	0.099	0.098	0.098	0.103	4.88
7)	l1	1016-4	0.046	0.048	0.047	0.043	0.041	0.041	0.044	7.06
8)	l1	1016-5	0.050	0.046	0.049	0.043	0.042	0.042	0.045	7.63
9)	l2	1260-1	0.074	0.069	0.072	0.064	0.062	0.060	0.067	8.45
10)	l2	1260-2	0.111	0.100	0.109	0.095	0.093	0.092	0.100	8.33
11)	l2	1260-3	0.067	0.062	0.068	0.060	0.059	0.059	0.063	6.44
12)	l2	1260-4	0.126	0.131	0.140	0.126	0.128	0.128	0.130	3.92
13)	l2	1260-5	0.102	0.096	0.101	0.091	0.092	0.093	0.096	4.97
14)	i	2154_1br2nb	----------ISTD----------							
15)	l3	1221-2				0.013			0.013	0.00
16)	l3	1221-3				0.008			0.008	0.00
17)	l3	1221-4				0.031			0.031	0.00
18)	l4	1254-1				0.044			0.044	0.00
19)	l4	1254-2				0.082			0.082	0.00
20)	l4	1254-3				0.077			0.077	0.00
21)	l4	1254-4				0.059			0.059	0.00
22)	l4	1254-5				0.082			0.082	0.00
23)	i	4268_1br2nb	----------ISTD----------							
24)	l6	1242-1				0.017			0.017	0.00
25)	l6	1242-2				0.036			0.036	0.00
26)	l6	1242-3				0.077			0.077	0.00
27)	l6	1242-4				0.033			0.033	0.00
28)	l6	1242-5				0.025			0.025	0.00
29)	l9	1268-1				0.165			0.165	0.00

Method Path : I:\PCB\Pest2\2024\240229I\
Method File : P2_pcb_02_29_24_LVI_ugL_ICAL.m
Title : pcb
Last Update : Thu Feb 29 16:00:47 2024
Response Via : Initial Calibration

Calibration Files
1 =P2240229i-08.D 2 =P2240229i-09.D 3 =P2240229i-10.D 4 =P2240229i-07.D 5 =P2240229i-12.D
6 =P2240229i-13.D

	Compound	1	2	3	4	5	6	Avg	%RSD
30) l9	1268-2				0.151			0.151	0.00
31) l9	1268-3				0.123			0.123	0.00
32) l9	1268-4				0.054			0.054	0.00
33) l9	1268-5				0.386			0.386	0.00
34) i	1248_1br2nb	----------ISTD----------							
35) l7	1248-1				0.052			0.052	0.00
36) l7	1248-2				0.067			0.067	0.00
37) l7	1248-3				0.059			0.059	0.00
38) l7	1248-4				0.053			0.053	0.00
39) l7	1248-5				0.045			0.045	0.00
40) i	3262_1br2nb	----------ISTD----------							
41) l5	1232-1				0.023			0.023	0.00
42) l5	1232-2				0.021			0.021	0.00
43) l5	1232-3				0.043			0.043	0.00
44) l5	1232-4				0.018			0.018	0.00
45) l5	1232-5				0.013			0.013	0.00
46) l8	1262-1				0.065			0.065	0.00
47) l8	1262-2				0.081			0.081	0.00
48) l8	1262-3				0.071			0.071	0.00
49) l8	1262-4				0.139			0.139	0.00
50) l8	1262-5				0.045			0.045	0.00

Signal #2 Calibration Files
1 =P2240229i-08.D 2 =P2240229i-09.D 3 =P2240229i-10.D 4 =P2240229i-07.D 5 =P2240229i-12.D
6 =P2240229i-13.D

	Compound	1	2	3	4	5	6	Avg	%RSD
1) i	1660_1br2nb	----------ISTD----------							
2) s	2,4,5,6-Tetra...	1.204	1.289	1.304	1.205	1.211	1.173	1.231	4.29

Response Factor Report Pest 2

Method Path : I:\PCB\Pest2\2024\240229I\
Method File : P2_pcb_02_29_24_LVI_ugL_ICAL.m
Title : pcb
Last Update : Thu Feb 29 16:00:47 2024
Response Via : Initial Calibration

Calibration Files
1 =P2240229i-08.D 2 =P2240229i-09.D 3 =P2240229i-10.D 4 =P2240229i-07.D 5 =P2240229i-12.D
6 =P2240229i-13.D

		Compound	1	2	3	4	5	6	Avg	%RSD
3)	s	Decachlorobip...	0.805	0.690	0.702	0.608	0.601	0.571	0.663	13.10
4)	l1	1016-1	0.023	0.022	0.024	0.020	0.020	0.019	0.021	9.08
5)	l1	1016-2	0.052	0.049	0.052	0.046	0.043	0.041	0.047	9.54
6)	l1	1016-3	0.107	0.095	0.100	0.090	0.090	0.084	0.094	8.68
7)	l1	1016-4	0.044	0.038	0.040	0.035	0.036	0.033	0.038	9.95
8)	l1	1016-5	0.030	0.029	0.032	0.028	0.028	0.027	0.029	6.44
9)	l2	1260-1	0.056	0.046	0.057	0.049	0.049	0.045	0.050	9.90
10)	l2	1260-2	0.077	0.064	0.066	0.057	0.057	0.053	0.062	13.87
11)	l2	1260-3	0.050	0.055	0.054	0.049	0.047	0.045	0.050	7.84
12)	l2	1260-4	0.114	0.104	0.113	0.097	0.097	0.093	0.103	8.60
13)	l2	1260-5	0.079	0.074	0.076	0.066	0.066	0.064	0.071	9.09
14)	i	2154_1br2nb	----------ISTD----------							
15)	l3	1221-2				0.013			0.013	0.00
16)	l3	1221-3				0.008			0.008	0.00
17)	l3	1221-4				0.029			0.029	0.00
18)	l4	1254-1				0.018			0.018	0.00
19)	l4	1254-2				0.049			0.049	0.00
20)	l4	1254-3				0.069			0.069	0.00
21)	l4	1254-4				0.045			0.045	0.00
22)	l4	1254-5				0.063			0.063	0.00
23)	i	4268_1br2nb	----------ISTD----------							
24)	l6	1242-1				0.017			0.017	0.00
25)	l6	1242-2				0.038			0.038	0.00
26)	l6	1242-3				0.072			0.072	0.00
27)	l6	1242-4				0.028			0.028	0.00
28)	l6	1242-5				0.021			0.021	0.00
29)	l9	1268-1				0.121			0.121	0.00
30)	l9	1268-2				0.108			0.108	0.00
31)	l9	1268-3				0.091			0.091	0.00
32)	l9	1268-4				0.038			0.038	0.00
33)	l9	1268-5				0.279			0.279	0.00

Response Factor Report Pest 2

Method Path : I:\PCB\Pest2\2024\240229I\
Method File : P2_pcb_02_29_24_LVI_ugL_ICAL.m
Title : pcb
Last Update : Thu Feb 29 16:00:47 2024
Response Via : Initial Calibration

Calibration Files
1 =P2240229i-08.D 2 =P2240229i-09.D 3 =P2240229i-10.D 4 =P2240229i-07.D 5 =P2240229i-12.D
6 =P2240229i-13.D

		Compound	1	2	3	4	5	6	Avg	%RSD
34)	i	1248_1br2nb	----------ISTD----------							
35)	l7	1248-1				0.049			0.049	0.00
36)	l7	1248-2				0.033			0.033	0.00
37)	l7	1248-3				0.040			0.040	0.00
38)	l7	1248-4				0.042			0.042	0.00
39)	l7	1248-5				0.048			0.048	0.00
40)	i	3262_1br2nb	----------ISTD----------							
41)	l5	1232-1				0.023			0.023	0.00
42)	l5	1232-2				0.023			0.023	0.00
43)	l5	1232-3				0.042			0.042	0.00
44)	l5	1232-4				0.016			0.016	0.00
45)	l5	1232-5				0.012			0.012	0.00
46)	l8	1262-1				0.045			0.045	0.00
47)	l8	1262-2				0.061			0.061	0.00
48)	l8	1262-3				0.056			0.056	0.00
49)	l8	1262-4				0.104			0.104	0.00
50)	l8	1262-5				0.037			0.037	0.00

(#) = Out of Range

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240229I\
Data File : P2240229i-04.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Feb 2024 12:37 pm
Operator : pest2:rmp/kb
Sample : il44268,42e,,pp 11454
Misc : WG1891083,, (Sig #1); ,,ical (Sig #2)
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Feb 29 15:19:06 2024
Quant Method : I:\PCB\Pest2\2024\240229I\P2_pcb_02_29_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Thu Feb 29 15:13:51 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
14) i	2154_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
23) i	4268_1br2nb	1.164	1.233	242.8E6	285.6E6	25.000M4	25.000M4
34) i	1248_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
40) i	3262_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	20.000	Range 30 - 150	Recovery	=	0.00%#	0.00%#
3) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	20.000	Range 30 - 150	Recovery	=	0.00%#	0.00%#
	Target Compounds						
4) l1	1016-1	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-2	0.000	0.000	0	0	N.D. d	N.D. d
6) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
8) l1	1016-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1016-1			0	0	N.D.	N.D.
	Average 1016-1					0.000	0.000
9) l2	1260-1	0.000	0.000	0	0	N.D. d	N.D. d
10) l2	1260-2	0.000	0.000	0	0	N.D. d	N.D. d
11) l2	1260-3	0.000	0.000	0	0	N.D. d	N.D. d
12) l2	1260-4	0.000	0.000	0	0	N.D. d	N.D. d
13) l2	1260-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1260-1			0	0	N.D.	N.D.
	Average 1260-1					0.000	0.000
15) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d
16) l3	1221-3	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240229I\
Data File : P2240229i-04.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Feb 2024 12:37 pm
Operator : pest2:rmp/kb
Sample : il44268,42e,,pp 11454
Misc : WG1891083,, (Sig #1); ,,ical (Sig #2)
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Feb 29 15:19:06 2024
Quant Method : I:\PCB\Pest2\2024\240229I\P2_pcb_02_29_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Thu Feb 29 15:13:51 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
17) l3	1221-4	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1221-2			0	0	N.D.	N.D.
Average	1221-2					0.000	0.000
18) l4	1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4	1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4	1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4	1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4	1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254-1			0	0	N.D.	N.D.
Average	1254-1					0.000	0.000
24) l6	1242-1	1.590	1.812	40726152	47898195	239.472M4	250.335
25) l6	1242-2	1.732	1.984	87903431	108.2E6	242.692M4	250.335
26) l6	1242-3	1.922	2.186	185.9E6	205.7E6	254.487M4	250.335
27) l6	1242-4	1.977	2.246	79256169	81105126	259.393M4	250.335
28) l6	1242-5	2.330	2.633	60520643	58692451	227.241M4	219.525M4
Sum	1242-1			454.3E6	501.6E6	1223.285	1220.867
Average	1242-1					244.657	244.173
29) l9	1268-1	3.459	3.893	400.8E6	346.1E6	242.692M4	240.469M4
30) l9	1268-2	3.480	3.919	366.2E6	308.7E6	238.799M4	229.674M4
31) l9	1268-3	3.582	4.061	299.9E6	259.5E6	243.421M4	203.555M4
32) l9	1268-4	3.769	4.213	131.7E6	108.3E6	237.842M4	173.429M4
33) l9	1268-5	3.924	4.400	936.1E6	797.3E6	247.554M4	240.335M4
Sum	1268-1			2134.7E6	1819.9E6	NoCal	NoCal D
Average	1268-1					242.061	217.492

Data Path : I:\PCB\Pest2\2024\240229I\
Data File : P2240229i-04.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Feb 2024 12:37 pm
Operator : pest2:rmp/kb
Sample : il44268,42e,,pp 11454
Misc : WG1891083,, (Sig #1); ,,ical (Sig #2)
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Feb 29 15:19:06 2024
Quant Method : I:\PCB\Pest2\2024\240229I\P2_pcb_02_29_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Thu Feb 29 15:13:51 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
35) l7 1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7 1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7 1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7 1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7 1248-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1248-1			0	0	N.D.	N.D.
Average 1248-1					0.000	0.000
41) l5 1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5 1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5 1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5 1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5 1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1232-1			0	0	N.D.	N.D.
Average 1232-1					0.000	0.000
46) l8 1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8 1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8 1262-3	0.000	0.000	0	0	N.D. d	N.D. d
49) l8 1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50) l8 1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument						
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000

(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240229I\
Data File : P2240229i-04.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Feb 2024 12:37 pm
Operator : pest2:rmp/kb
Sample : il44268,42e,,pp 11454
Misc : WG1891083,, (Sig #1); ,,ical (Sig #2)
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Feb 29 15:19:06 2024
Quant Method : I:\PCB\Pest2\2024\240229I\P2_pcb_02_29_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Thu Feb 29 15:13:51 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l

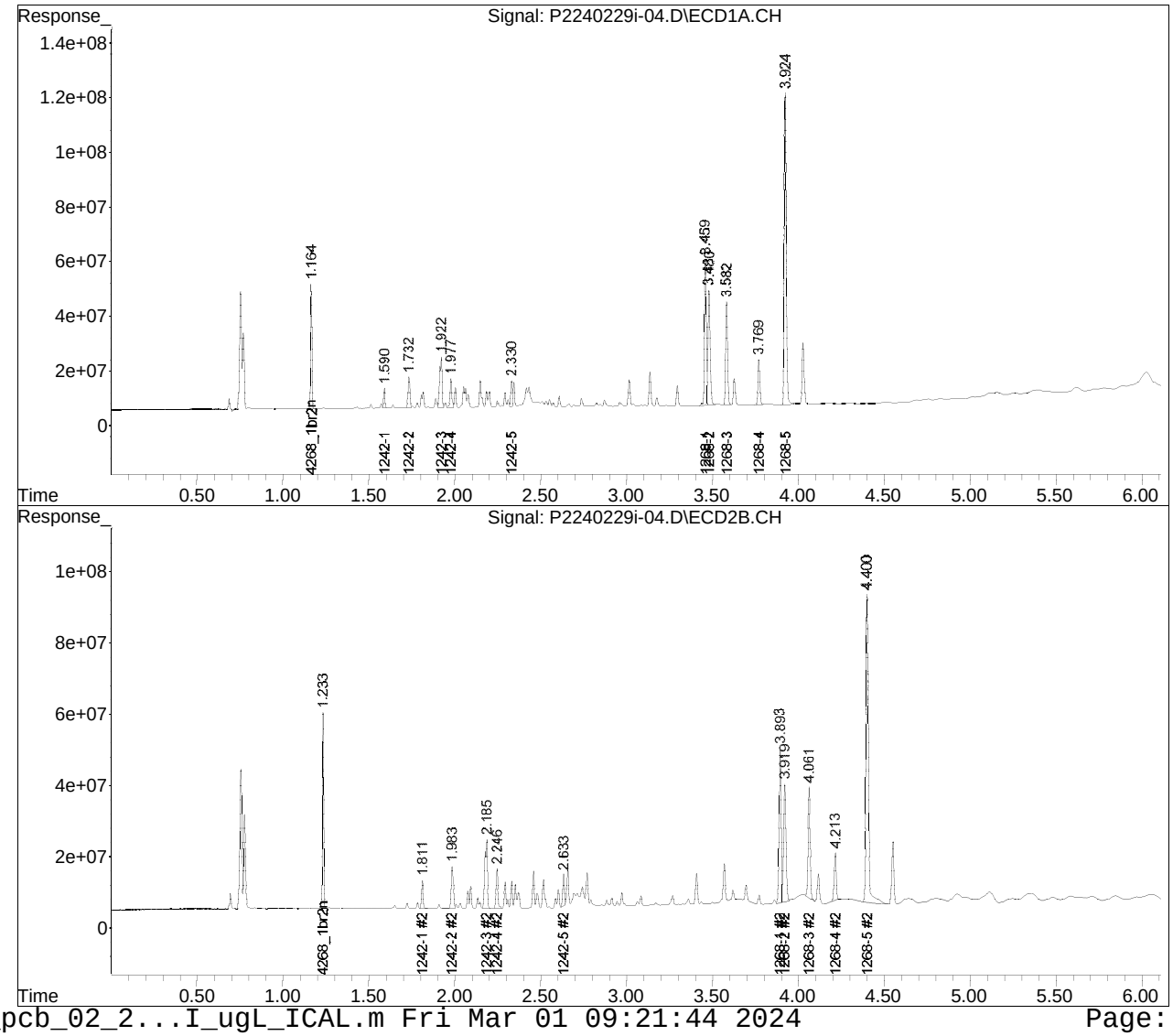
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PCB\Pest2\2024\240229I\
Data File : P2240229i-04.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Feb 2024 12:37 pm
Operator : pest2:rmp/kb
Sample : il44268,42e,,pp 11454
Misc : WG1891083,, (Sig #1); ,,ical (Sig #2)
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Feb 29 15:19:06 2024
Quant Method : I:\PCB\Pest2\2024\240229I\P2_pcb_02_29_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Thu Feb 29 15:13:51 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

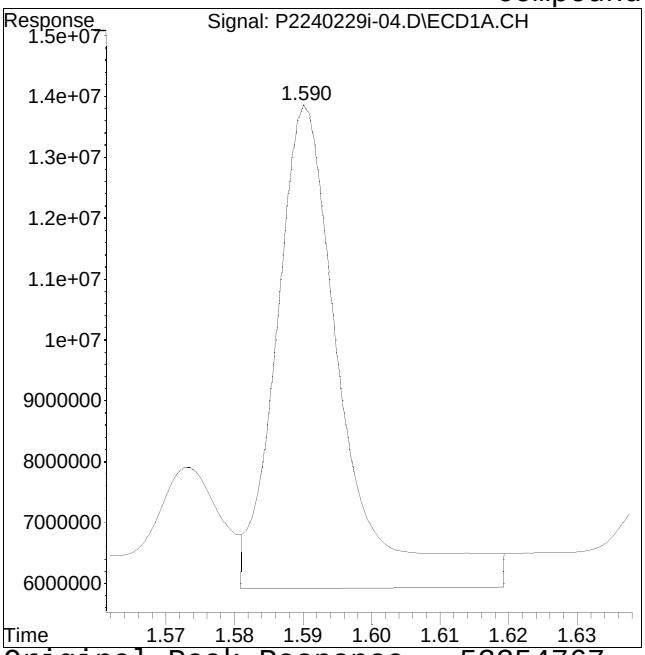
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

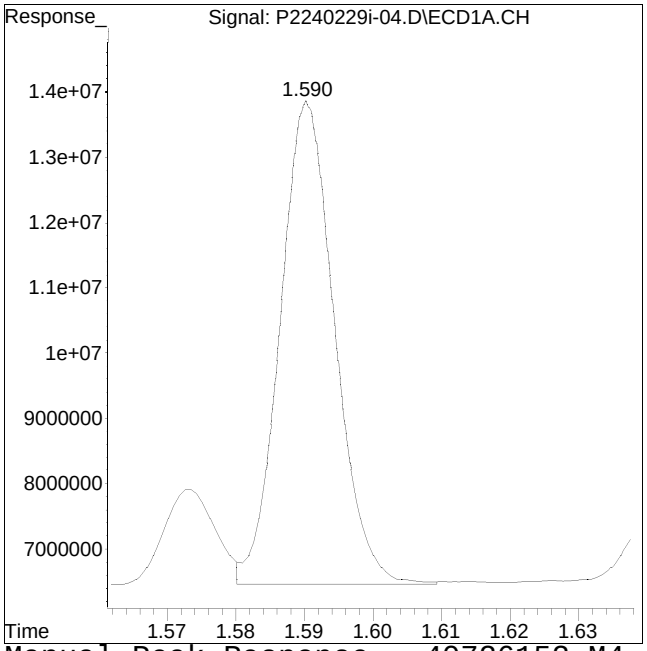


Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240229I\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240229i-04.D Operator : pest2:rmp/kb
Date Inj'd : 2/29/2024 12:37 pm Instrument : Pest 2
Sample : il44268,42e,,pp 11454 Quant Date : 2/29/2024 3:13 pm

Compound #24: 1242-1



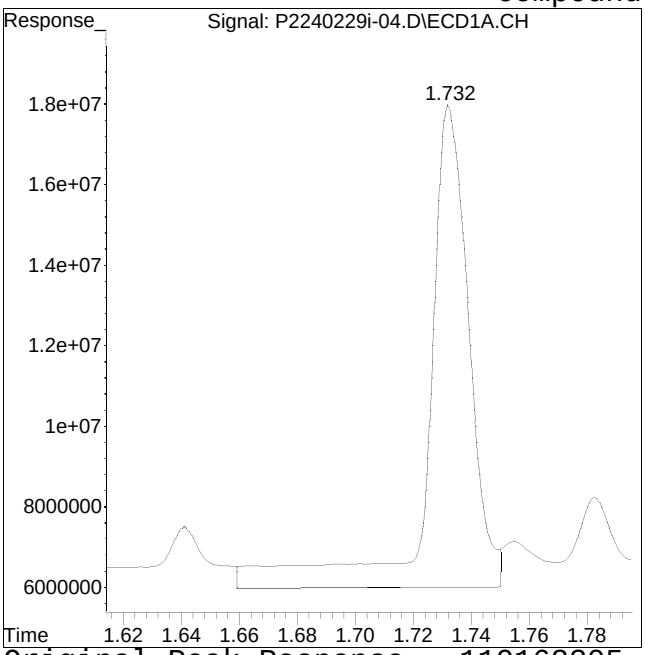


Original Peak Response = 53354767 Manual Peak Response = 40726152 M4
M4 = Poor automated baseline construction.

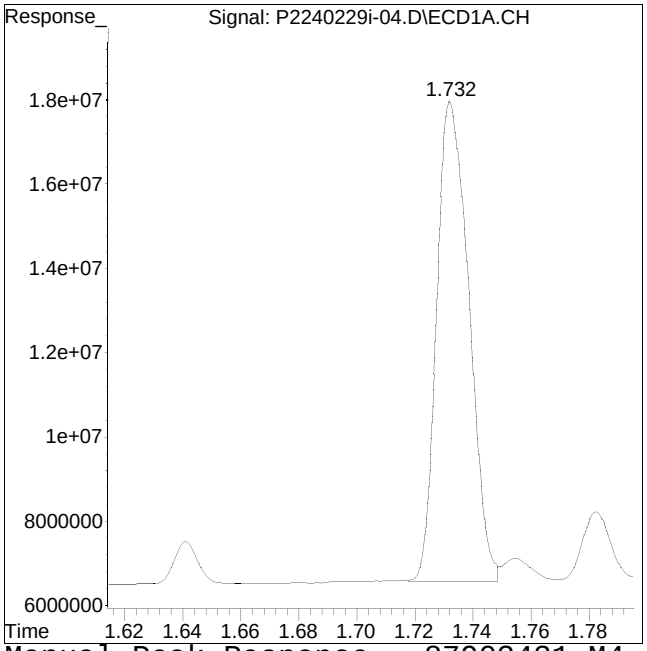
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240229I\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240229i-04.D Operator : pest2:rmp/kb
Date Inj'd : 2/29/2024 12:37 pm Instrument : Pest 2
Sample : il44268,42e,,pp 11454 Quant Date : 2/29/2024 3:13 pm

Compound #25: 1242-2



Original Peak Response = 119162305



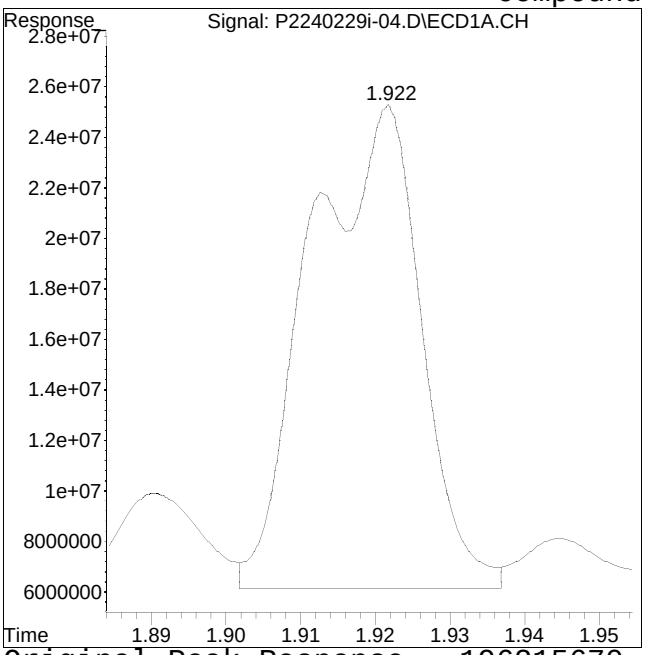
Manual Peak Response = 87903431 M4

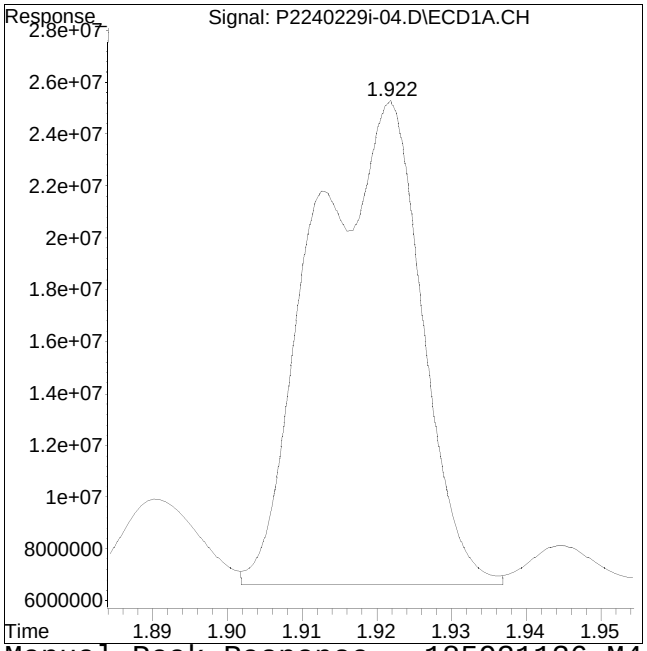
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240229I\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240229i-04.D Operator : pest2:rmp/kb
Date Inj'd : 2/29/2024 12:37 pm Instrument : Pest 2
Sample : il44268,42e,,pp 11454 Quant Date : 2/29/2024 3:13 pm

Compound #26: 1242-3



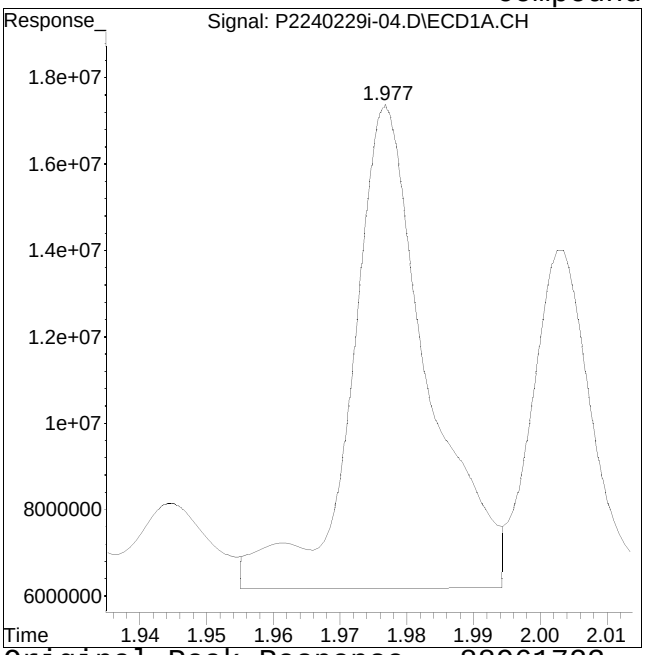


Original Peak Response = 196215670 Manual Peak Response = 185931136 M4
M4 = Poor automated baseline construction.

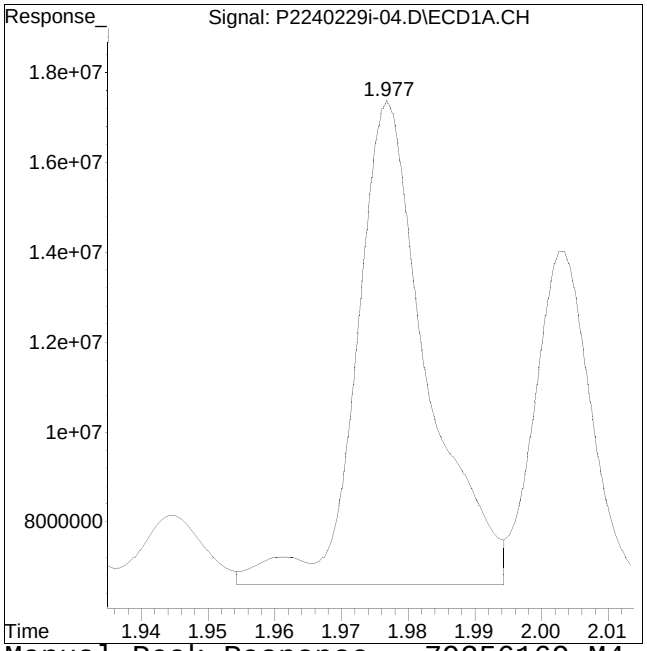
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240229I\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240229i-04.D Operator : pest2:rmp/kb
Date Inj'd : 2/29/2024 12:37 pm Instrument : Pest 2
Sample : il44268,42e,,pp 11454 Quant Date : 2/29/2024 3:13 pm

Compound #27: 1242-4



Original Peak Response = 88961723



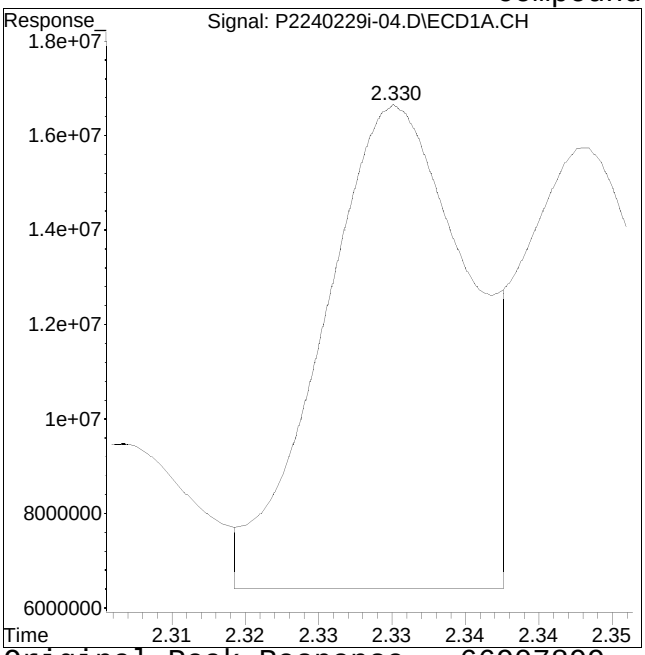
Manual Peak Response = 79256169 M4

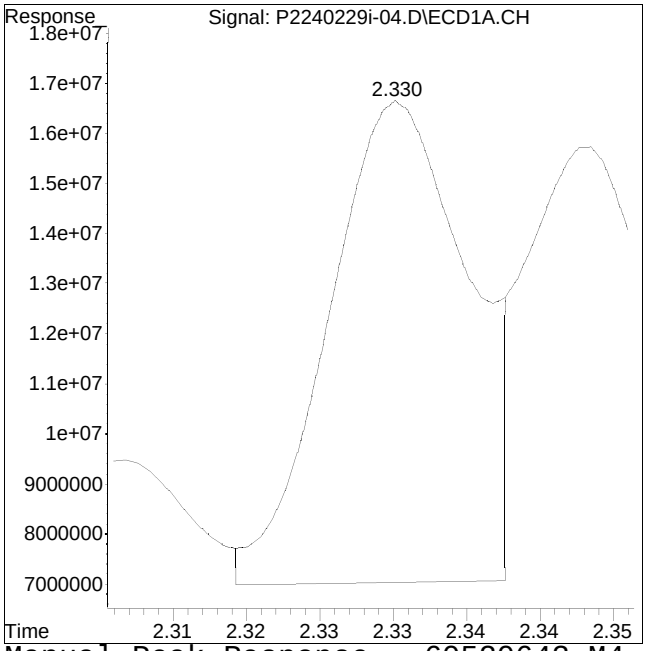
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240229I\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240229i-04.D Operator : pest2:rmp/kb
Date Inj'd : 2/29/2024 12:37 pm Instrument : Pest 2
Sample : il44268,42e,,pp 11454 Quant Date : 2/29/2024 3:13 pm

Compound #28: 1242-5



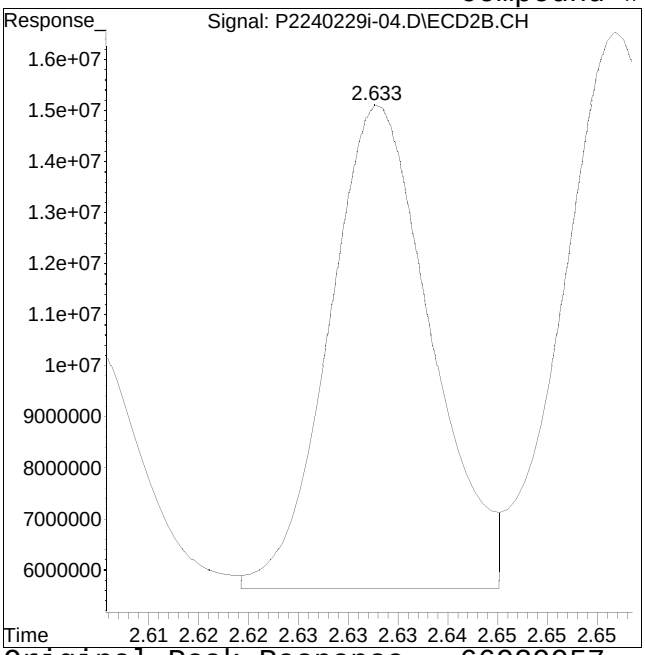


Original Peak Response = 66907899 Manual Peak Response = 60520643 M4
M4 = Poor automated baseline construction.

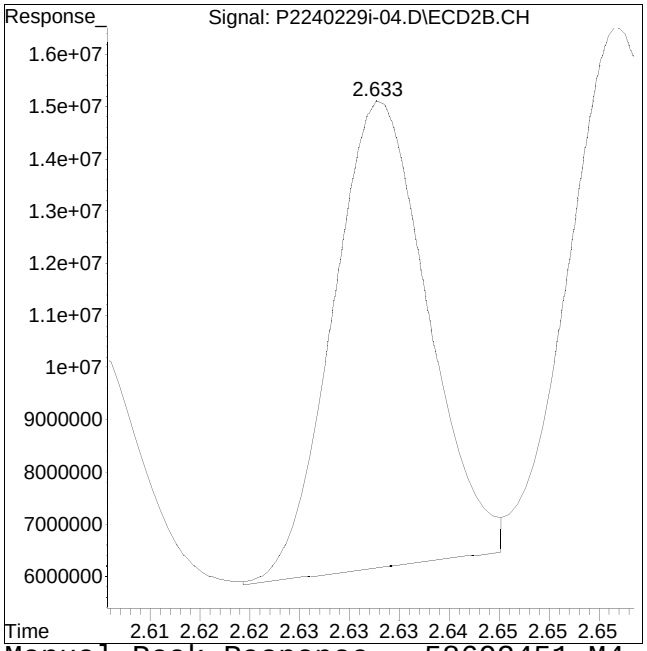
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240229I\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240229i-04.D Operator : pest2:rmp/kb
Date Inj'd : 2/29/2024 12:37 pm Instrument : Pest 2
Sample : il44268,42e,,pp 11454 Quant Date : 2/29/2024 3:13 pm

Compound #79: 1242-5 #2



Original Peak Response = 66929957



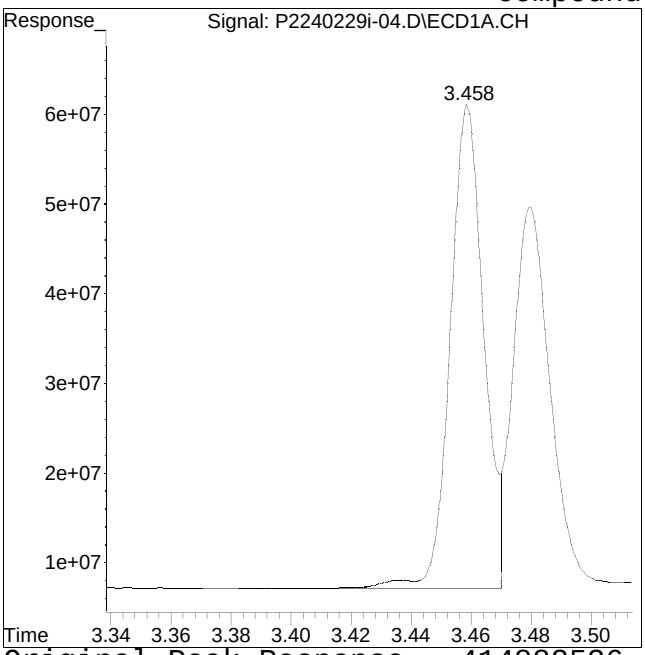
Manual Peak Response = 58692451 M4

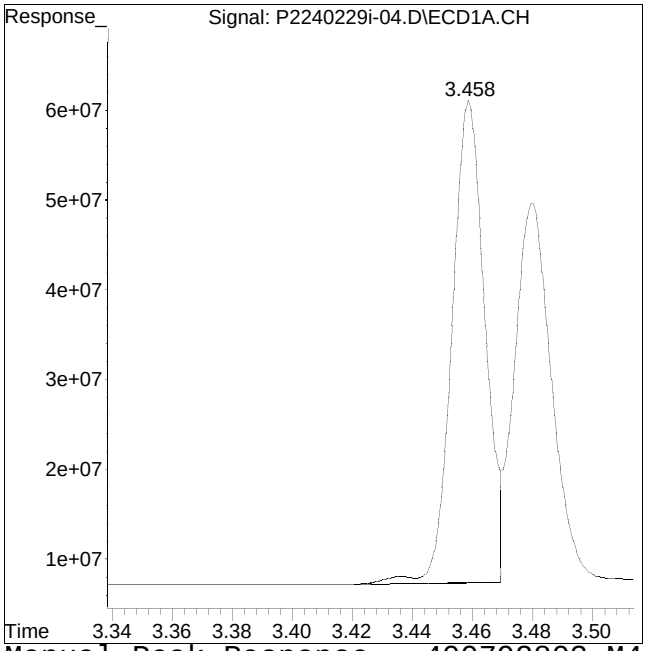
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240229I\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240229i-04.D Operator : pest2:rmp/kb
Date Inj'd : 2/29/2024 12:37 pm Instrument : Pest 2
Sample : il44268,42e,,pp 11454 Quant Date : 2/29/2024 3:13 pm

Compound #29: 1268-1



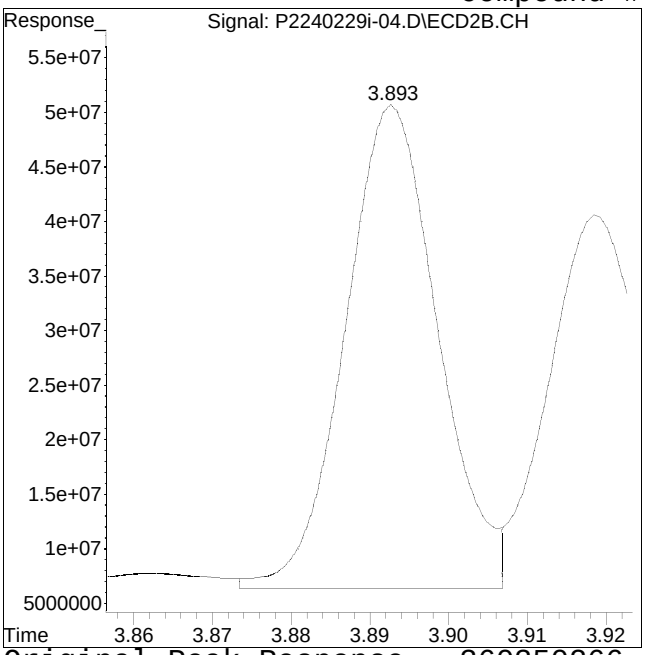


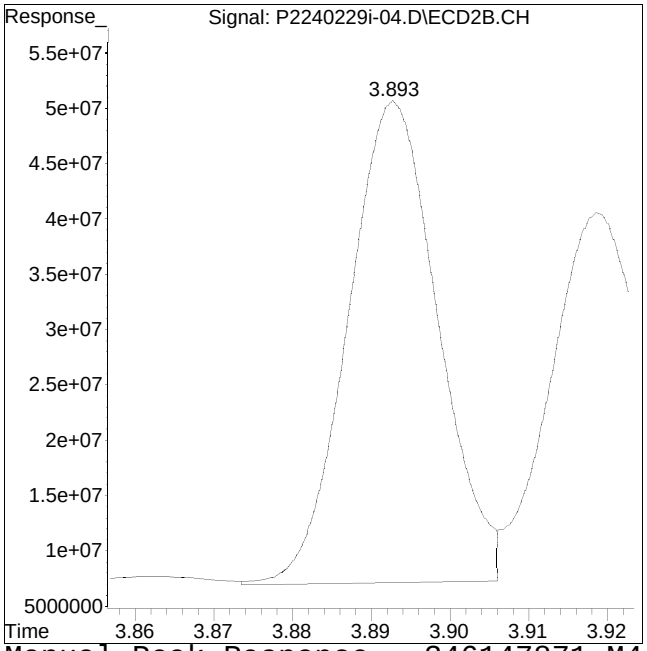
Original Peak Response = 414882536 Manual Peak Response = 400792803 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240229I\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240229i-04.D Operator : pest2:rmp/kb
Date Inj'd : 2/29/2024 12:37 pm Instrument : Pest 2
Sample : il44268,42e,,pp 11454 Quant Date : 2/29/2024 3:13 pm

Compound #80: 1268-1 #2



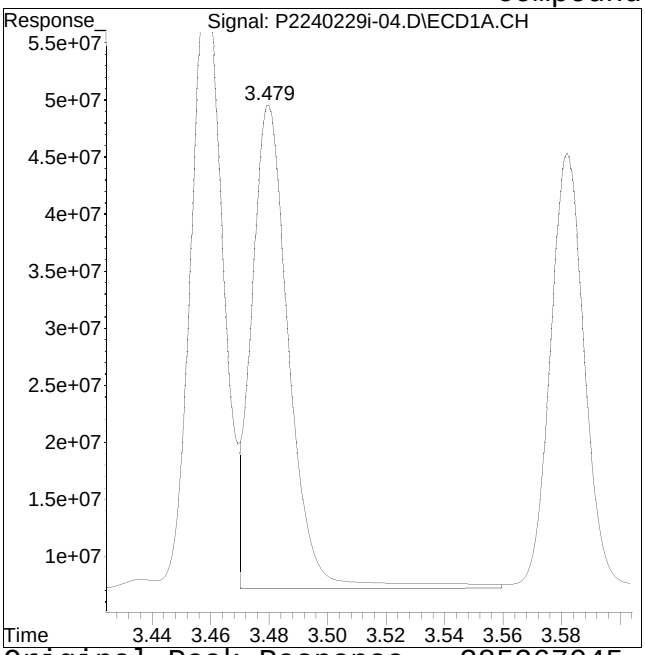


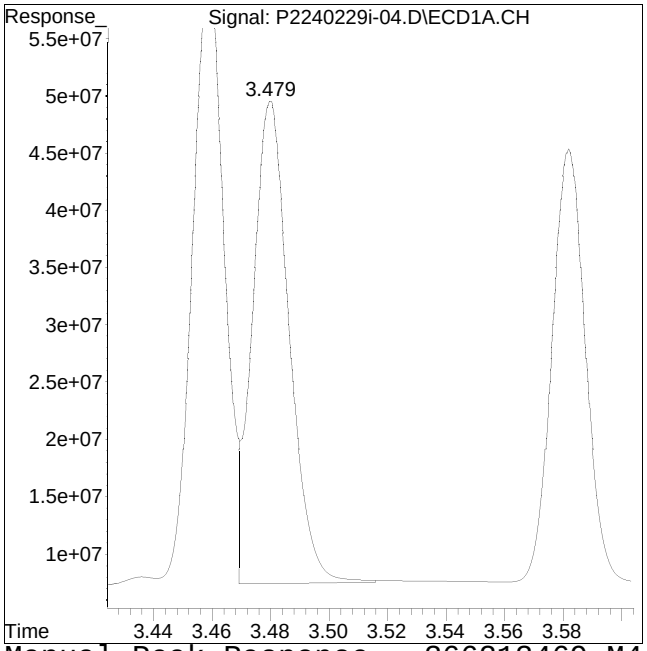
Original Peak Response = 360350266 Manual Peak Response = 346147871 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240229I\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240229i-04.D Operator : pest2:rmp/kb
Date Inj'd : 2/29/2024 12:37 pm Instrument : Pest 2
Sample : il44268,42e,,pp 11454 Quant Date : 2/29/2024 3:13 pm

Compound #30: 1268-2



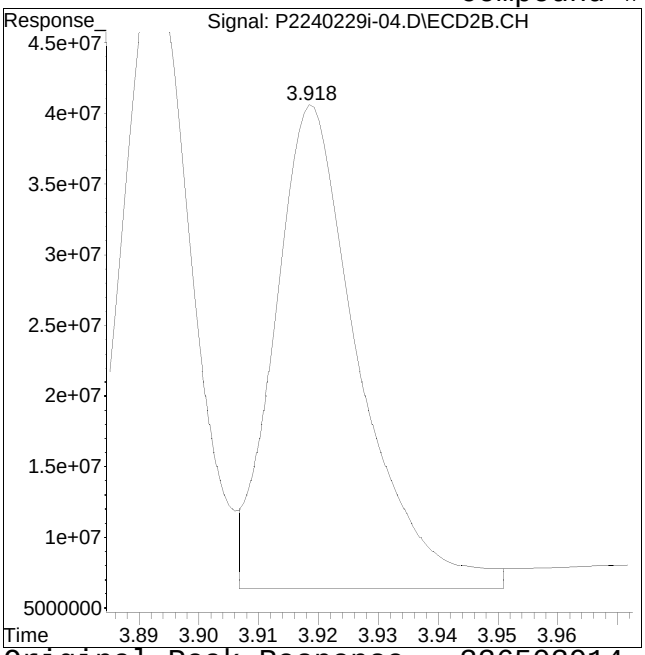


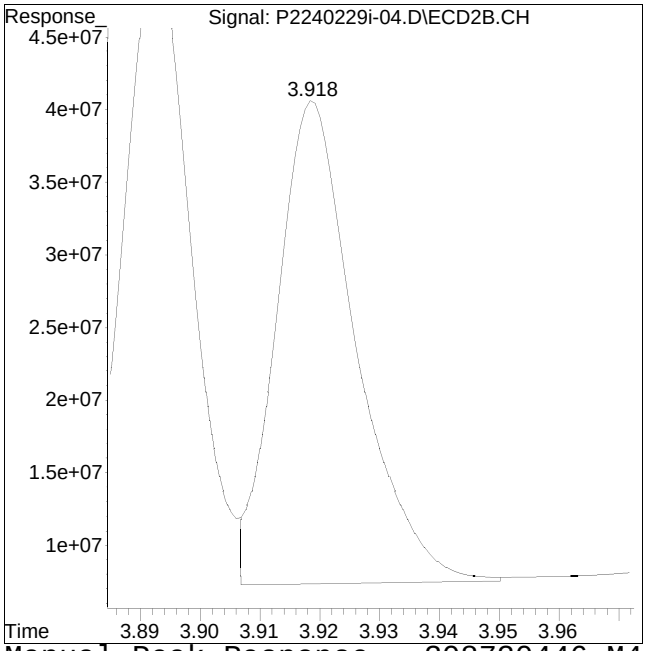
Original Peak Response = 385267045 Manual Peak Response = 366213469 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240229I\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240229i-04.D Operator : pest2:rmp/kb
Date Inj'd : 2/29/2024 12:37 pm Instrument : Pest 2
Sample : il44268,42e,,pp 11454 Quant Date : 2/29/2024 3:13 pm

Compound #81: 1268-2 #2



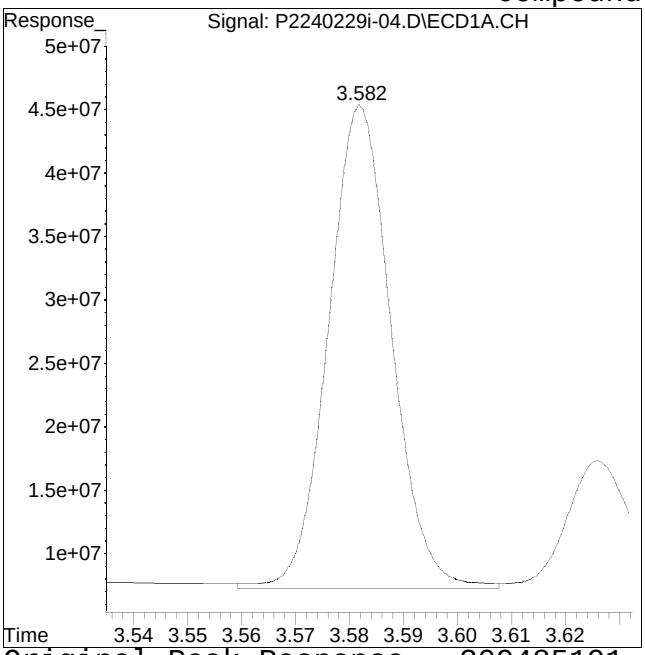


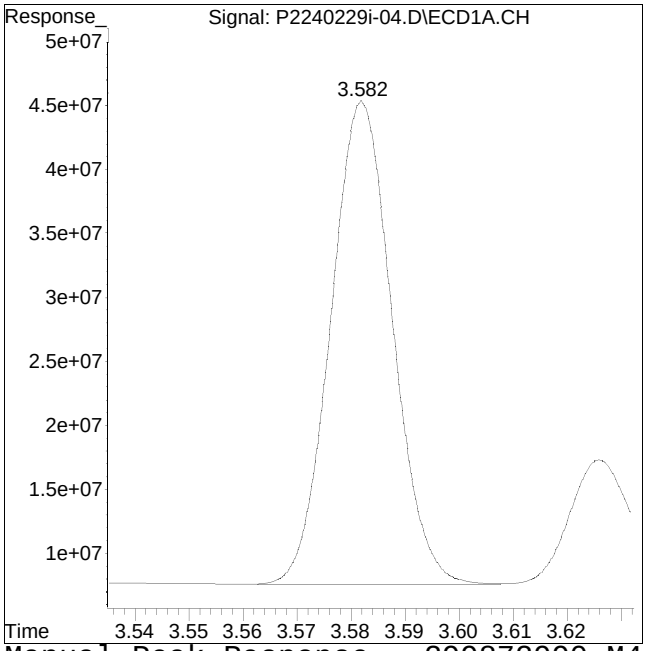
Original Peak Response = 336503914 Manual Peak Response = 308730446 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240229I\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240229i-04.D Operator : pest2:rmp/kb
Date Inj'd : 2/29/2024 12:37 pm Instrument : Pest 2
Sample : il44268,42e,,pp 11454 Quant Date : 2/29/2024 3:13 pm

Compound #31: 1268-3



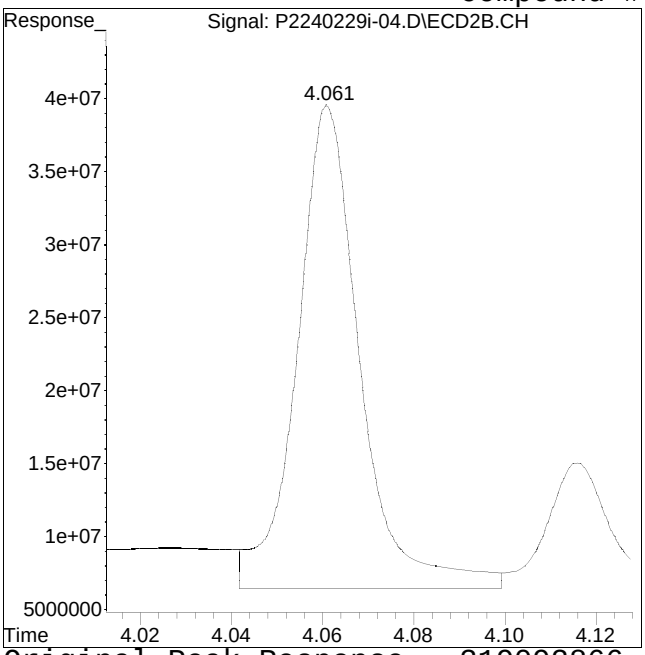


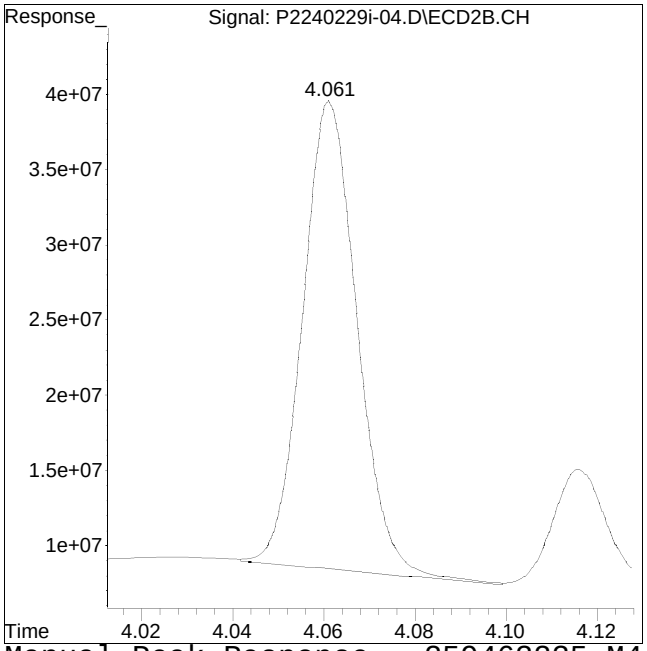
Original Peak Response = 309485191 Manual Peak Response = 299872990 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240229I\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240229i-04.D Operator : pest2:rmp/kb
Date Inj'd : 2/29/2024 12:37 pm Instrument : Pest 2
Sample : il44268,42e,,pp 11454 Quant Date : 2/29/2024 3:13 pm

Compound #82: 1268-3 #2



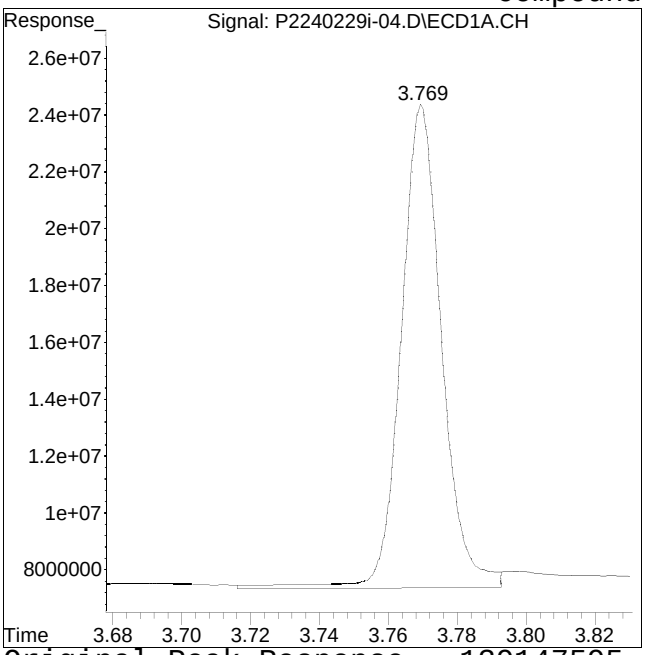


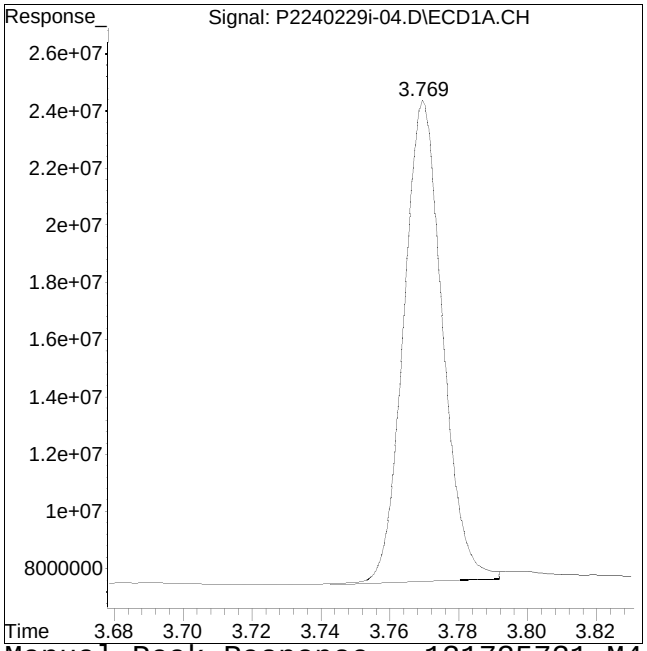
Original Peak Response = 319092866 Manual Peak Response = 259463235 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240229I\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240229i-04.D Operator : pest2:rmp/kb
Date Inj'd : 2/29/2024 12:37 pm Instrument : Pest 2
Sample : il44268,42e,,pp 11454 Quant Date : 2/29/2024 3:13 pm

Compound #32: 1268-4



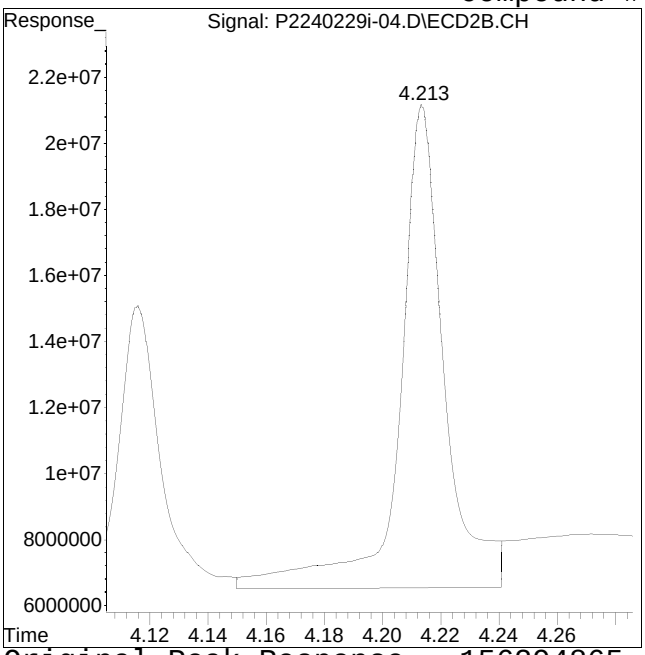


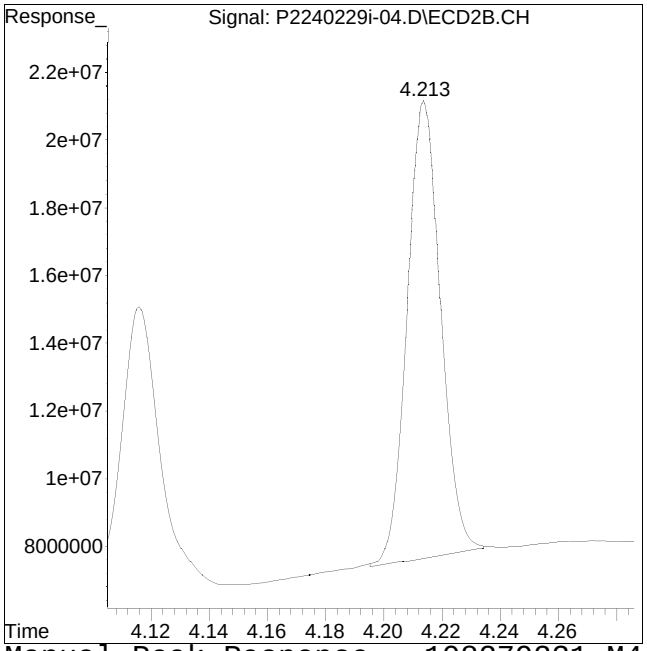
Original Peak Response = 139147595 Manual Peak Response = 131735731 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240229I\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240229i-04.D Operator : pest2:rmp/kb
Date Inj'd : 2/29/2024 12:37 pm Instrument : Pest 2
Sample : il44268,42e,,pp 11454 Quant Date : 2/29/2024 3:13 pm

Compound #83: 1268-4 #2



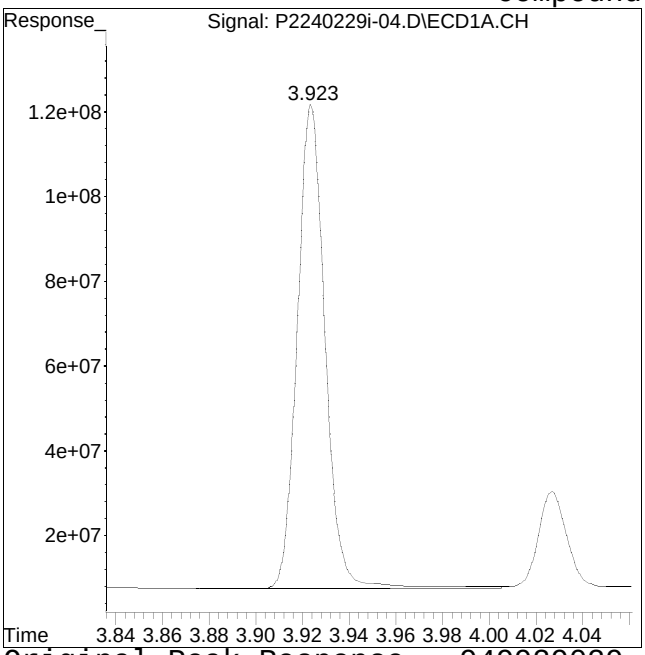


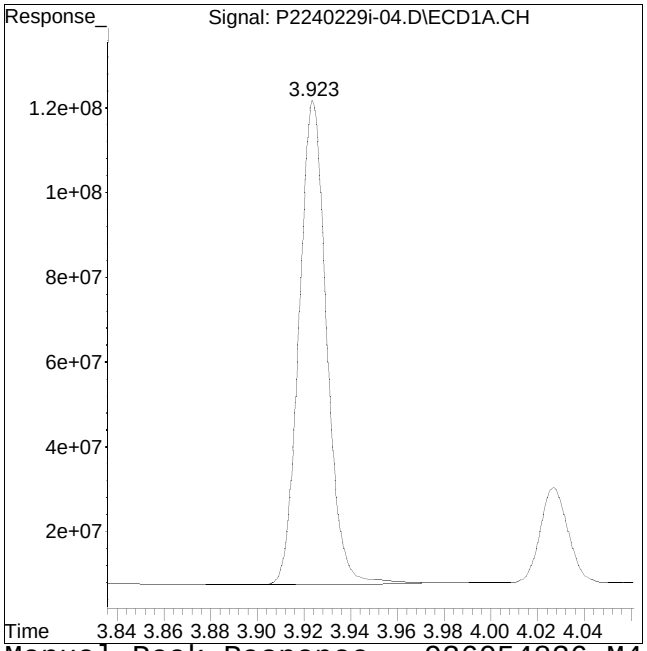
Original Peak Response = 156294865 Manual Peak Response = 108279231 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240229I\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240229i-04.D Operator : pest2:rmp/kb
Date Inj'd : 2/29/2024 12:37 pm Instrument : Pest 2
Sample : il44268,42e,,pp 11454 Quant Date : 2/29/2024 3:13 pm

Compound #33: 1268-5



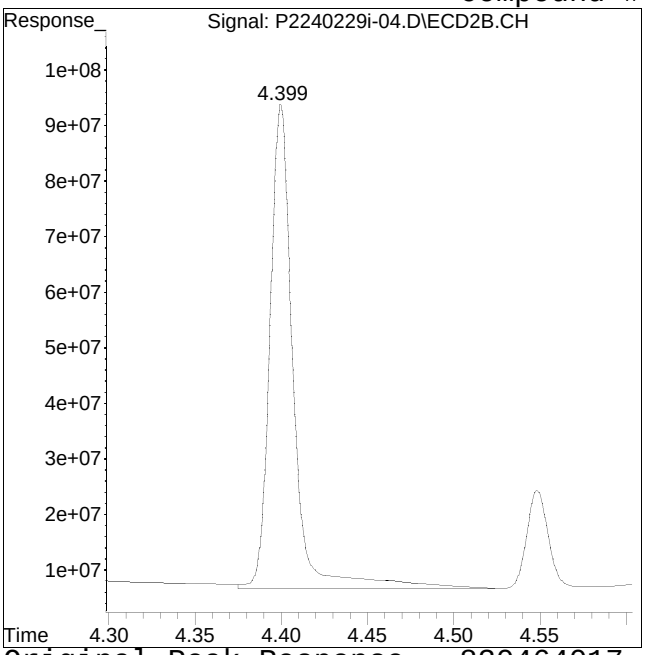


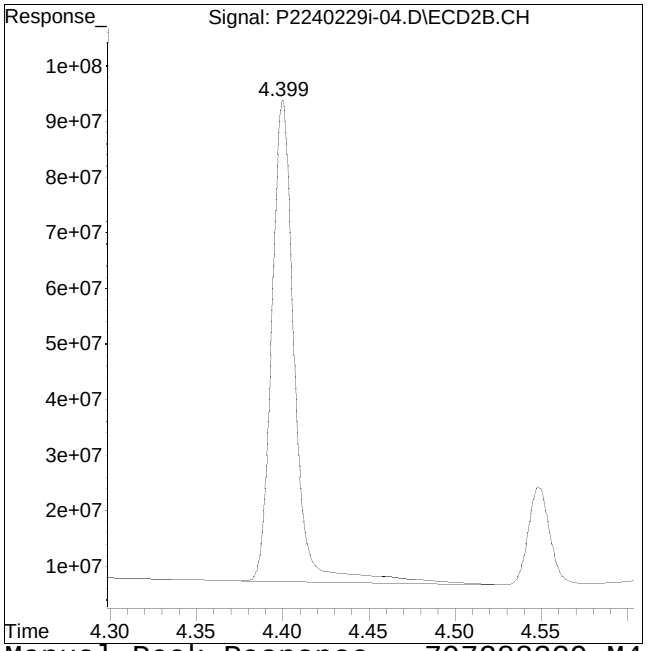
Original Peak Response = 949929029 Manual Peak Response = 936054836 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240229I\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240229i-04.D Operator : pest2:rmp/kb
Date Inj'd : 2/29/2024 12:37 pm Instrument : Pest 2
Sample : il44268,42e,,pp 11454 Quant Date : 2/29/2024 3:13 pm

Compound #84: 1268-5 #2





Original Peak Response = 830464017 Manual Peak Response = 797288339 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240229I\
Data File : P2240229i-05.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Feb 2024 12:47 pm
Operator : pest2:rmp/kb
Sample : il43262,42e,,pp 11457
Misc : WG1891083,, (Sig #1); ,,ical (Sig #2)
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Feb 29 15:23:39 2024
Quant Method : I:\PCB\Pest2\2024\240229I\P2_pcb_02_29_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Thu Feb 29 15:21:29 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
14) i	2154_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
23) i	4268_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
34) i	1248_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
40) i	3262_1br2nb	1.165	1.233	241.7E6	275.4E6	25.000M4	25.000M4
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	20.000	Range 30 - 150	Recovery	=	0.00%#	0.00%#
3) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	20.000	Range 30 - 150	Recovery	=	0.00%#	0.00%#
	Target Compounds						
4) l1	1016-1	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-2	0.000	0.000	0	0	N.D. d	N.D. d
6) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
8) l1	1016-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1016-1			0	0	N.D.	N.D.
	Average 1016-1					0.000	0.000
9) l2	1260-1	0.000	0.000	0	0	N.D. d	N.D. d
10) l2	1260-2	0.000	0.000	0	0	N.D. d	N.D. d
11) l2	1260-3	0.000	0.000	0	0	N.D. d	N.D. d
12) l2	1260-4	0.000	0.000	0	0	N.D. d	N.D. d
13) l2	1260-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1260-1			0	0	N.D.	N.D.
	Average 1260-1					0.000	0.000
15) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d
16) l3	1221-3	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PCB\Pest2\2024\240229I\
Data File : P2240229i-05.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Feb 2024 12:47 pm
Operator : pest2:rmp/kb
Sample : il43262,42e,,pp 11457
Misc : WG1891083,, (Sig #1); ,,ical (Sig #2)
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Feb 29 15:23:39 2024
Quant Method : I:\PCB\Pest2\2024\240229I\P2_pcb_02_29_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Thu Feb 29 15:21:29 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
17) l3	1221-4	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1221-2			0	0	N.D.	N.D.
Average	1221-2					0.000	0.000
18) l4	1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4	1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4	1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4	1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4	1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254-1			0	0	N.D.	N.D.
Average	1254-1					0.000	0.000
24) l6	1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6	1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6	1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6	1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6	1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242-1			0	0	N.D.	N.D.
Average	1242-1					0.000	0.000
29) l9	1268-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l9	1268-2	0.000	0.000	0	0	N.D. d	N.D. d
31) l9	1268-3	0.000	0.000	0	0	N.D. d	N.D. d
32) l9	1268-4	0.000	0.000	0	0	N.D. d	N.D. d
33) l9	1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1268-1			0	0	N.D.	N.D.
Average	1268-1					0.000	0.000
35) l7	1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7	1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7	1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7	1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7	1248-5	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240229I\
Data File : P2240229i-05.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Feb 2024 12:47 pm
Operator : pest2:rmp/kb
Sample : il43262,42e,,pp 11457
Misc : WG1891083,, (Sig #1); ,,ical (Sig #2)
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Feb 29 15:23:39 2024
Quant Method : I:\PCB\Pest2\2024\240229I\P2_pcb_02_29_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Thu Feb 29 15:21:29 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Sum	1248-1			0	0	N.D.	N.D.
Average	1248-1					0.000	0.000
41) l5	1232-1	1.591	1.812	54593186	62411343	285.248M4	250.376
42) l5	1232-2	1.733	1.984	50722379	64429039	274.579M4	250.376
43) l5	1232-3	1.922	2.186	102.8E6	116.1E6	277.754M4	250.376
44) l5	1232-4	1.977	2.247	44024907	45189754	271.709M4	250.376
45) l5	1232-5	2.331	2.634	31782982	34029339	335.733M4	228.241M4
Sum	1232-1			283.9E6	322.2E6	1445.023	1229.744
Average	1232-1					289.005	245.949
46) l8	1262-1	2.823	3.172	158.0E6	123.5E6	285.714	227.633M4
47) l8	1262-2	3.015	3.407	196.2E6	167.9E6	285.714	230.714M4
48) l8	1262-3	3.139	3.566	172.0E6	154.0E6	285.714	221.717M4
49) l8	1262-4	3.296	3.696	335.4E6	287.1E6	285.714	233.292M4
50) l8	1262-5	3.771	4.214	109.6E6	102.0E6	285.714	156.721M4
Sum	1262-1			971.3E6	834.5E6	1428.568	1070.078
Average	1262-1					285.714	214.016

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	1262-1			971.3E6	834.5E6	1428.568	1070.078
Average	1262-1					285.714	214.016

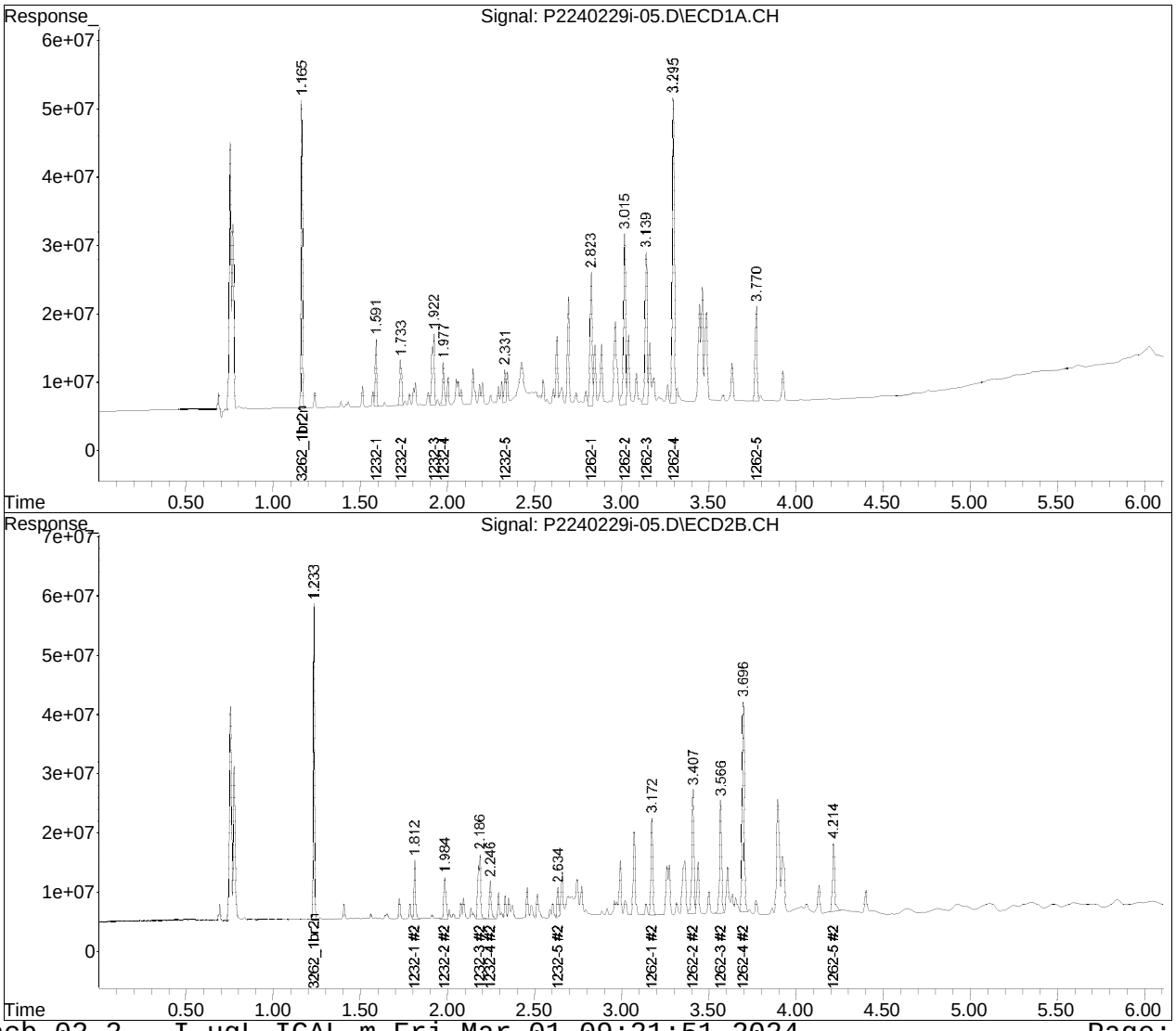
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PCB\Pest2\2024\240229I\
Data File : P2240229i-05.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Feb 2024 12:47 pm
Operator : pest2:rmp/kb
Sample : il43262,42e,,pp 11457
Misc : WG1891083,, (Sig #1); ,,ical (Sig #2)
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Feb 29 15:23:39 2024
Quant Method : I:\PCB\Pest2\2024\240229I\P2_pcb_02_29_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Thu Feb 29 15:21:29 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

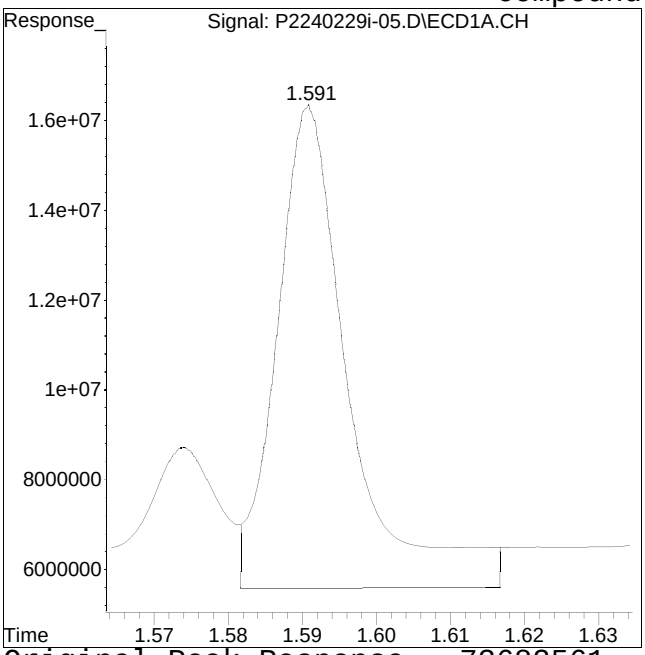
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

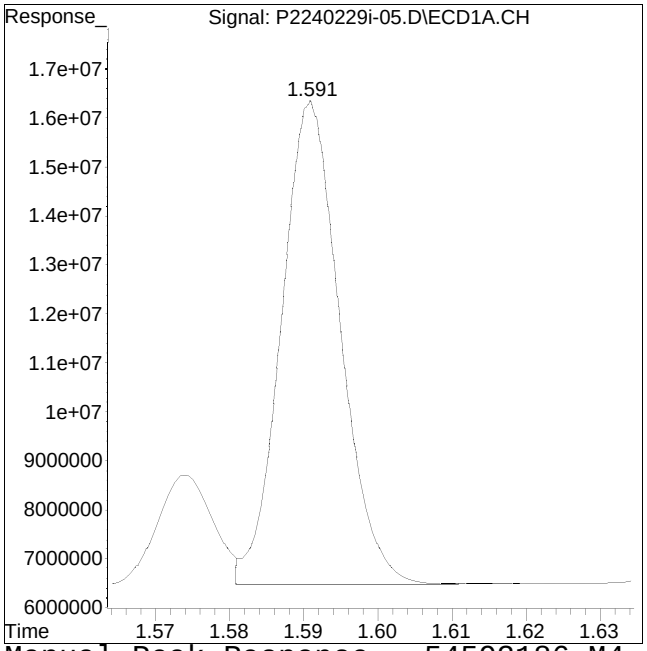


Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240229I\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240229i-05.D Operator : pest2:rmp/kb
Date Inj'd : 2/29/2024 12:47 pm Instrument : Pest 2
Sample : il43262,42e,,pp 11457 Quant Date : 2/29/2024 3:21 pm

Compound #41: 1232-1



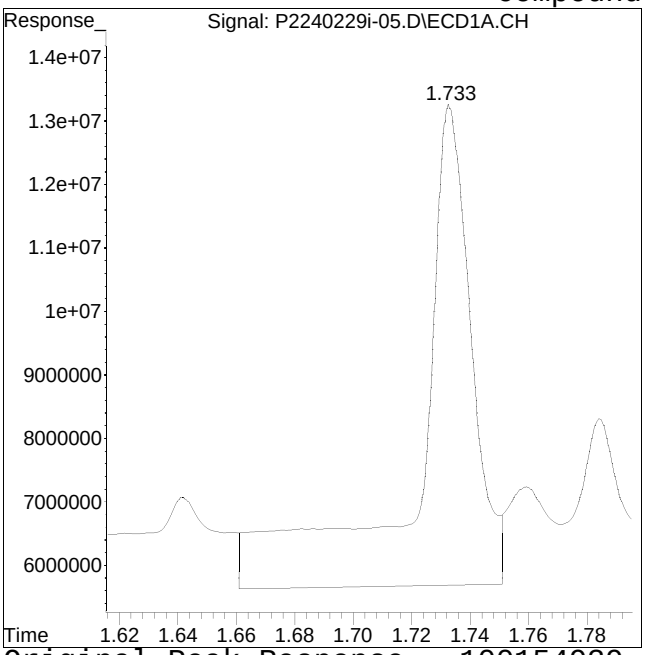


Original Peak Response = 73682561 Manual Peak Response = 54593186 M4
M4 = Poor automated baseline construction.

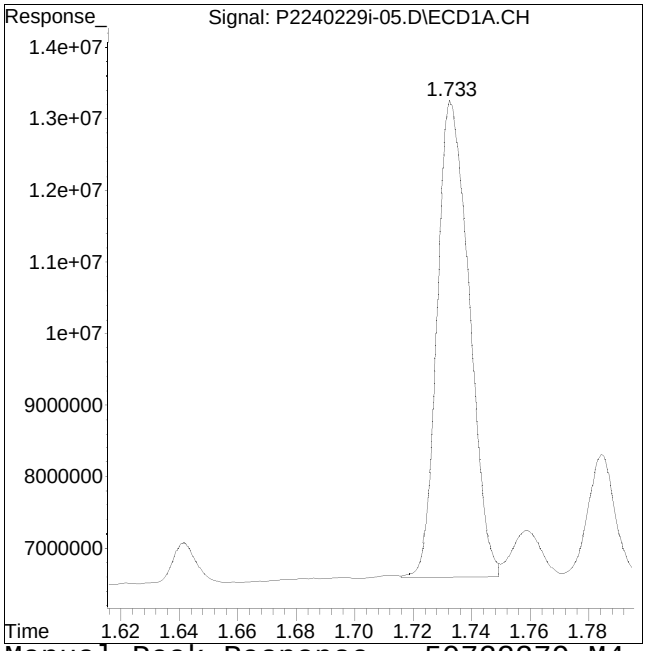
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240229I\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240229i-05.D Operator : pest2:rmp/kb
Date Inj'd : 2/29/2024 12:47 pm Instrument : Pest 2
Sample : il43262,42e,,pp 11457 Quant Date : 2/29/2024 3:21 pm

Compound #42: 1232-2



Original Peak Response = 100154939



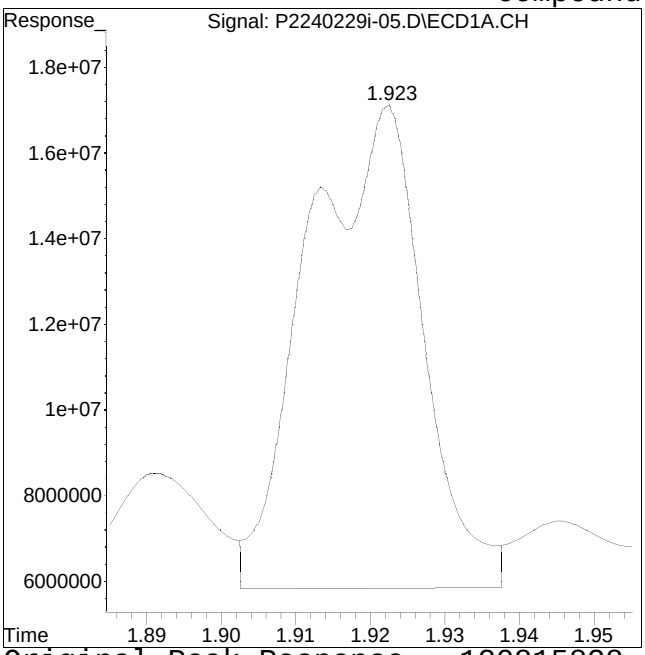
Manual Peak Response = 50722379 M4

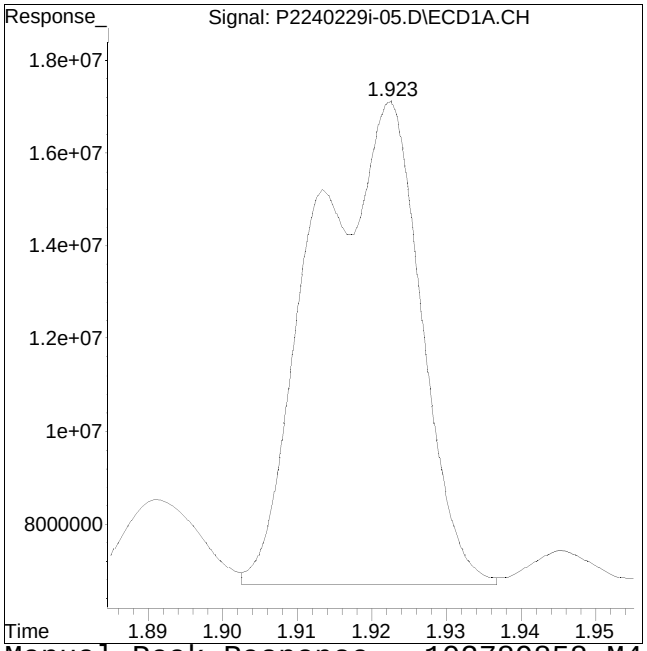
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240229I\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240229i-05.D Operator : pest2:rmp/kb
Date Inj'd : 2/29/2024 12:47 pm Instrument : Pest 2
Sample : il43262,42e,,pp 11457 Quant Date : 2/29/2024 3:21 pm

Compound #43: 1232-3



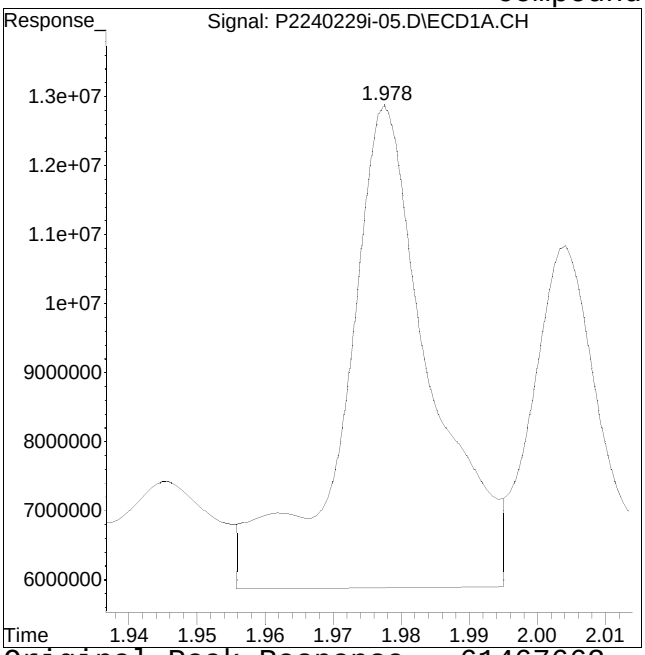


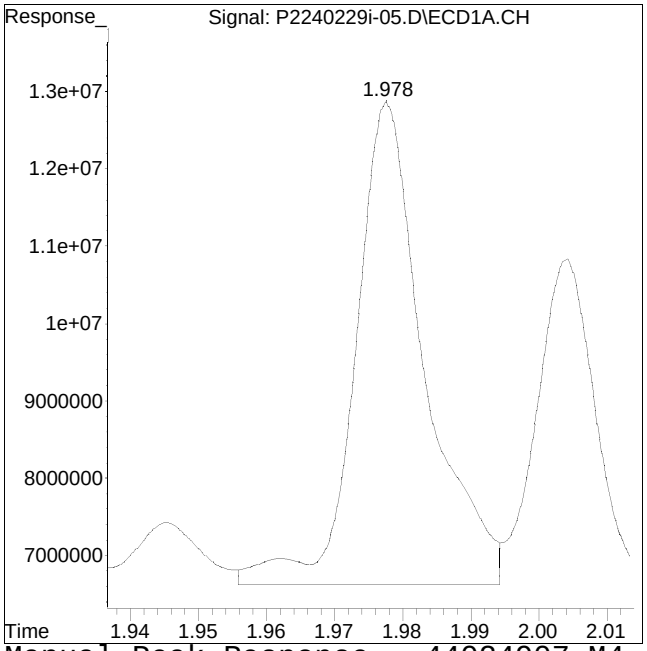
Original Peak Response = 120815828 Manual Peak Response = 102789858 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240229I\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240229i-05.D Operator : pest2:rmp/kb
Date Inj'd : 2/29/2024 12:47 pm Instrument : Pest 2
Sample : il43262,42e,,pp 11457 Quant Date : 2/29/2024 3:21 pm

Compound #44: 1232-4



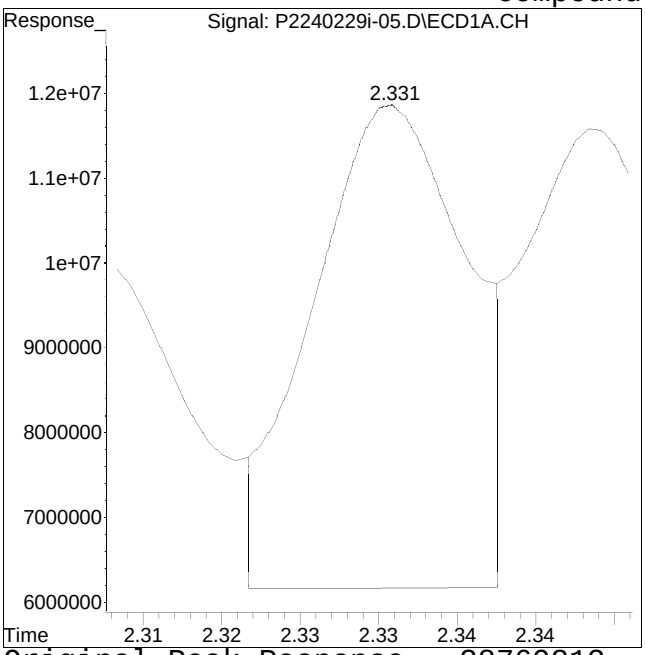


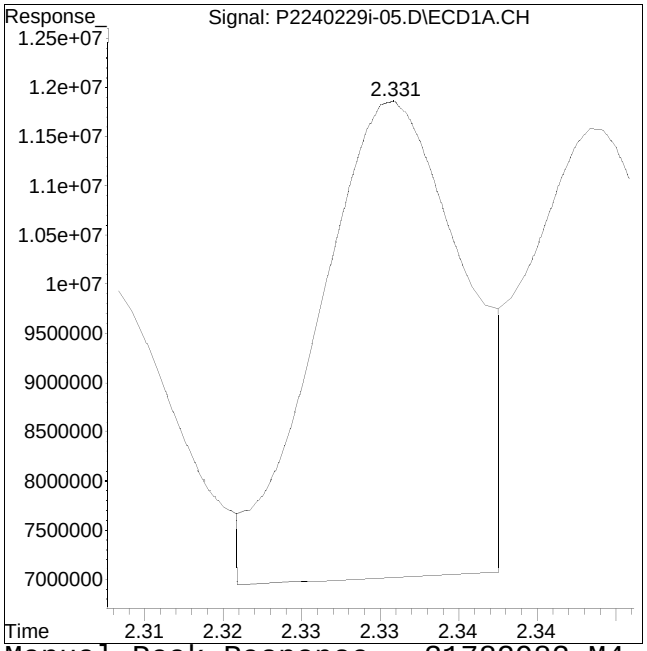
Original Peak Response = 61467662 Manual Peak Response = 44024907 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240229I\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240229i-05.D Operator : pest2:rmp/kb
Date Inj'd : 2/29/2024 12:47 pm Instrument : Pest 2
Sample : il43262,42e,,pp 11457 Quant Date : 2/29/2024 3:21 pm

Compound #45: 1232-5



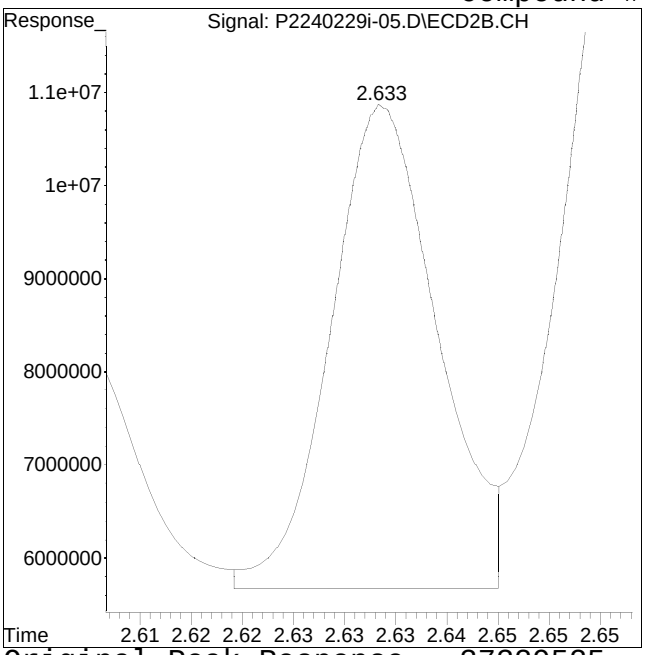


Original Peak Response = 38769212 Manual Peak Response = 31782982 M4
M4 = Poor automated baseline construction.

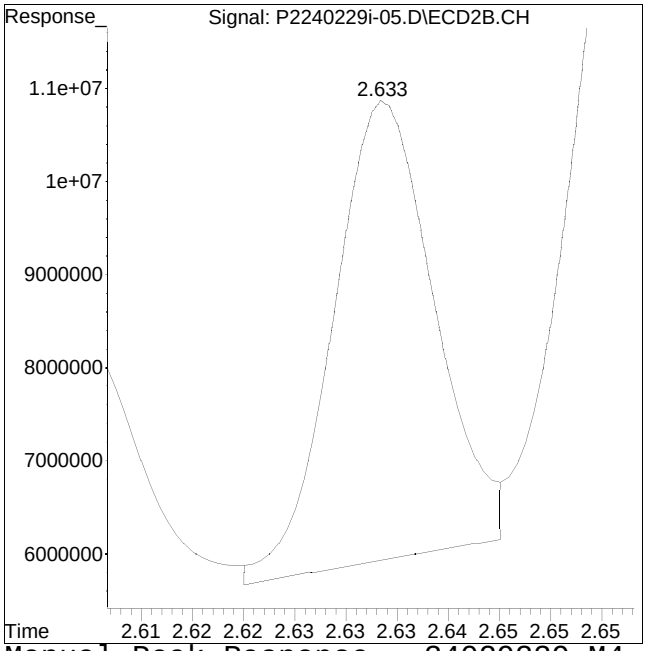
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240229I\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240229i-05.D Operator : pest2:rmp/kb
Date Inj'd : 2/29/2024 12:47 pm Instrument : Pest 2
Sample : il43262,42e,,pp 11457 Quant Date : 2/29/2024 3:21 pm

Compound #96: 1232-5 #2



Original Peak Response = 37329525



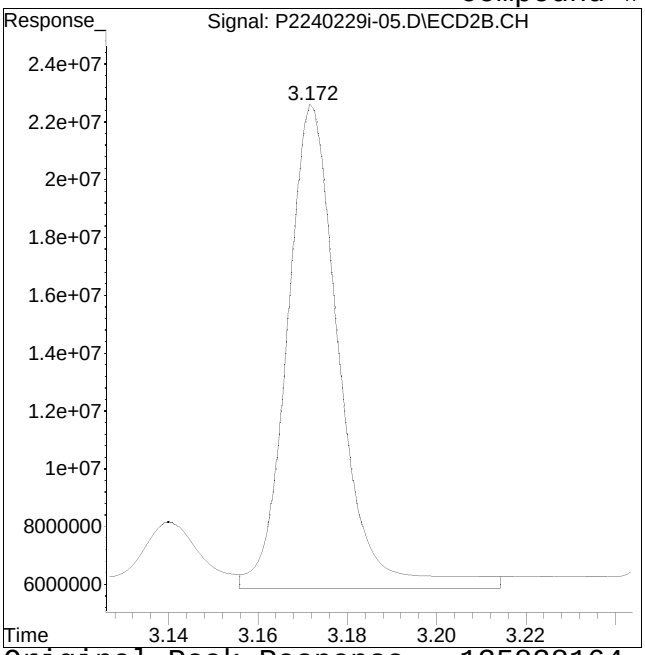
Manual Peak Response = 34029339 M4

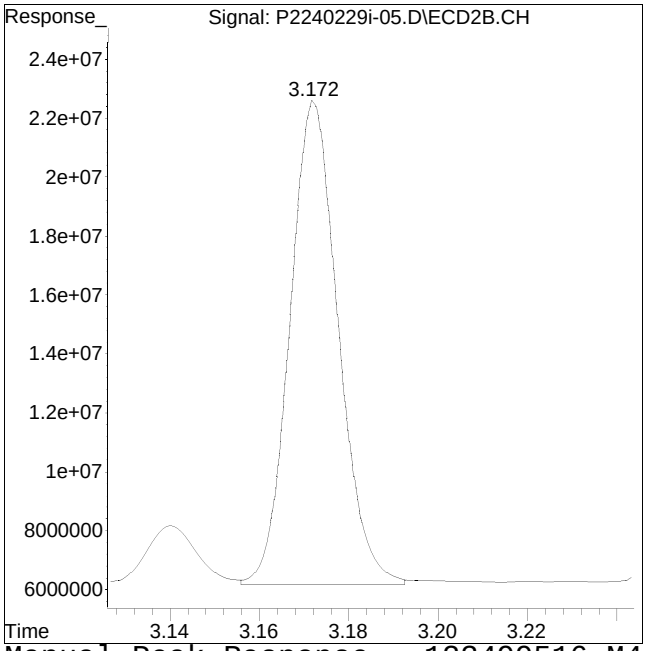
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240229I\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240229i-05.D Operator : pest2:rmp/kb
Date Inj'd : 2/29/2024 12:47 pm Instrument : Pest 2
Sample : il43262,42e,,pp 11457 Quant Date : 2/29/2024 3:21 pm

Compound #97: 1262-1 #2



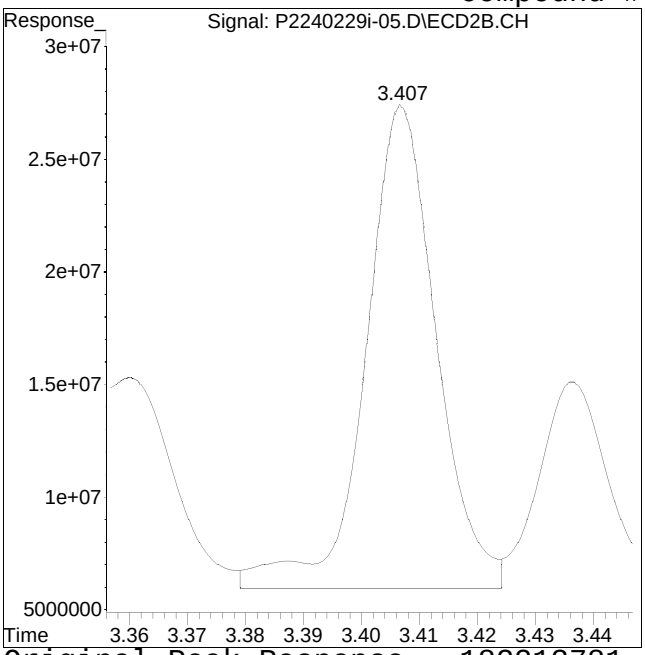


Original Peak Response = 135838164 Manual Peak Response = 123499516 M4
M4 = Poor automated baseline construction.

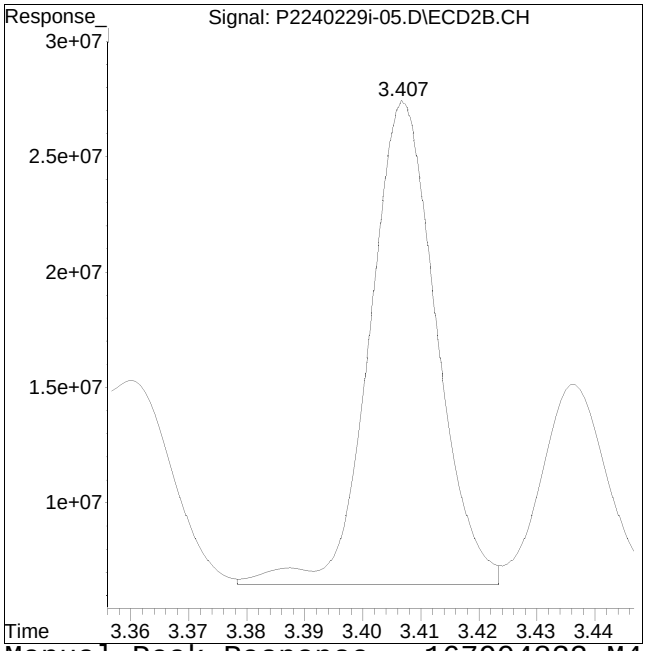
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240229I\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240229i-05.D Operator : pest2:rmp/kb
Date Inj'd : 2/29/2024 12:47 pm Instrument : Pest 2
Sample : il43262,42e,,pp 11457 Quant Date : 2/29/2024 3:21 pm

Compound #98: 1262-2 #2



Original Peak Response = 182213781



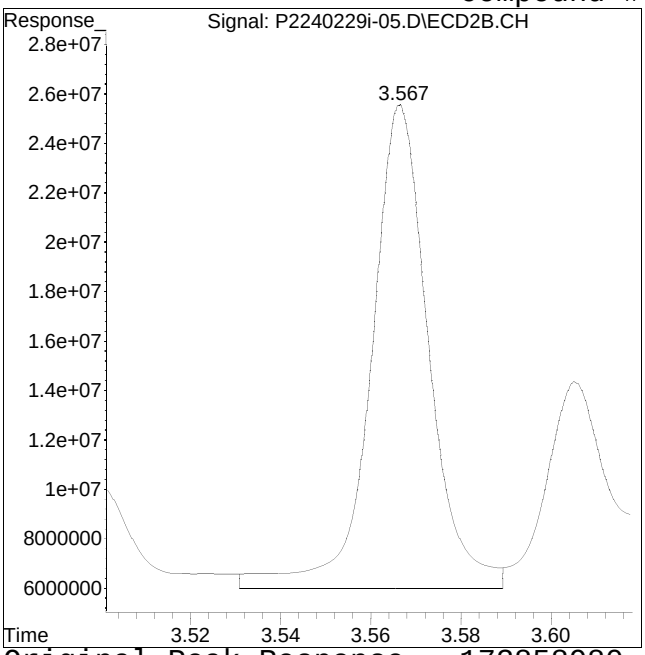
Manual Peak Response = 167904833 M4

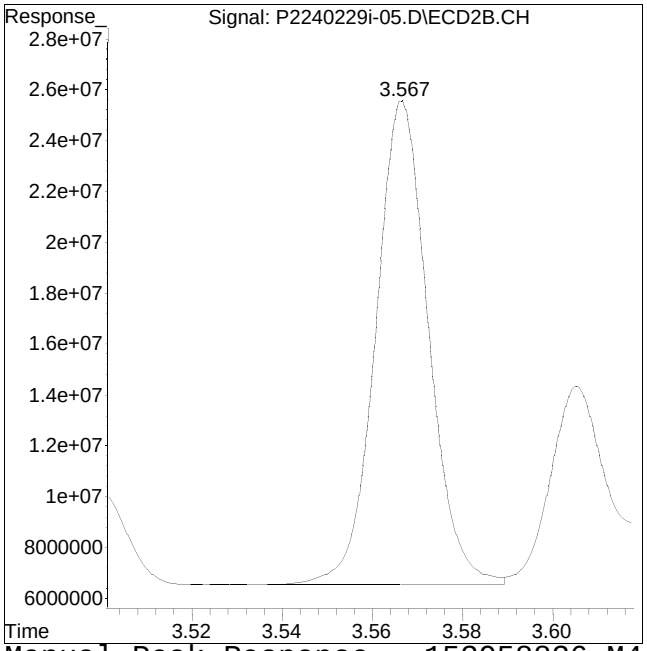
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240229I\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240229i-05.D Operator : pest2:rmp/kb
Date Inj'd : 2/29/2024 12:47 pm Instrument : Pest 2
Sample : il43262,42e,,pp 11457 Quant Date : 2/29/2024 3:21 pm

Compound #99: 1262-3 #2



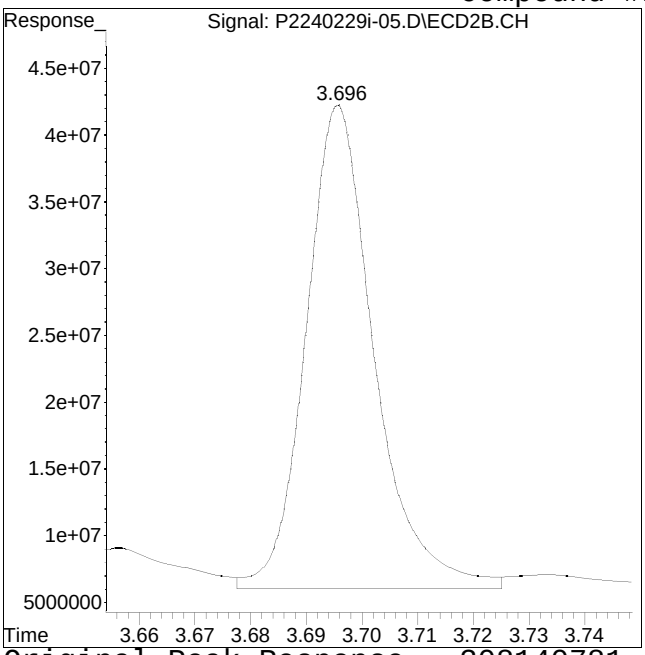


Original Peak Response = 173858980 Manual Peak Response = 153958836 M4
M4 = Poor automated baseline construction.

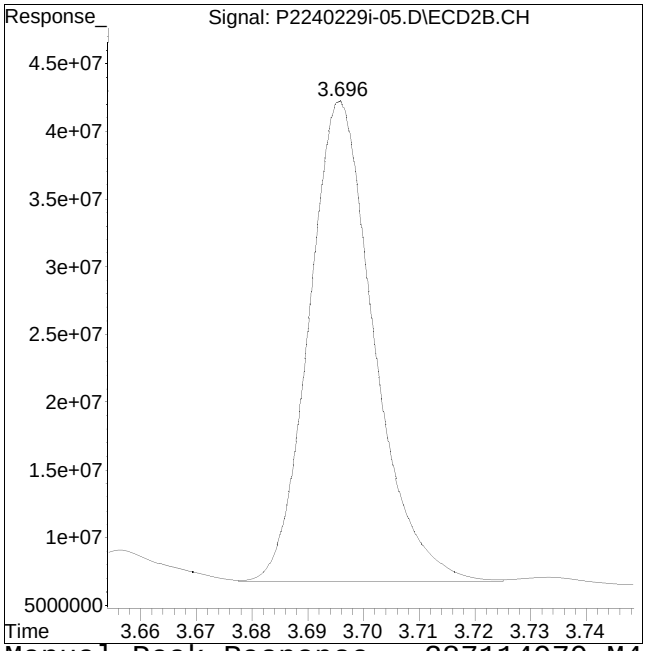
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240229I\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240229i-05.D Operator : pest2:rmp/kb
Date Inj'd : 2/29/2024 12:47 pm Instrument : Pest 2
Sample : il43262,42e,,pp 11457 Quant Date : 2/29/2024 3:21 pm

Compound #100: 1262-4 #2



Original Peak Response = 308140781



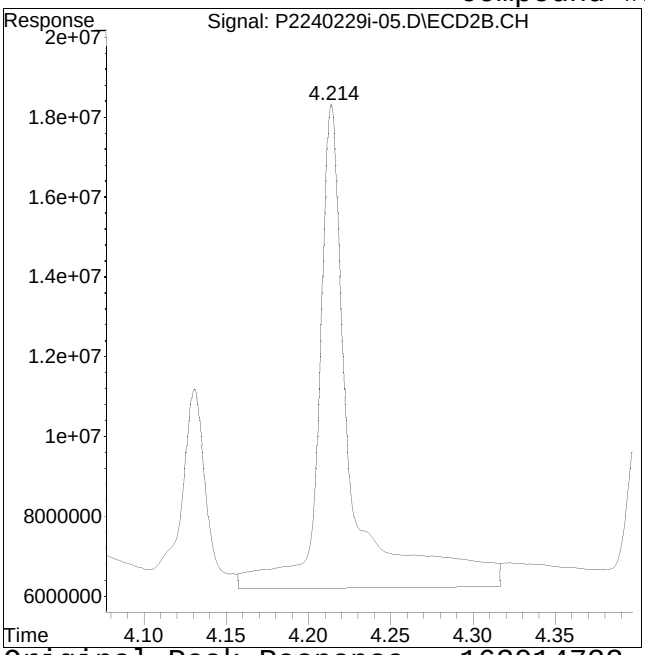
Manual Peak Response = 287114970 M4

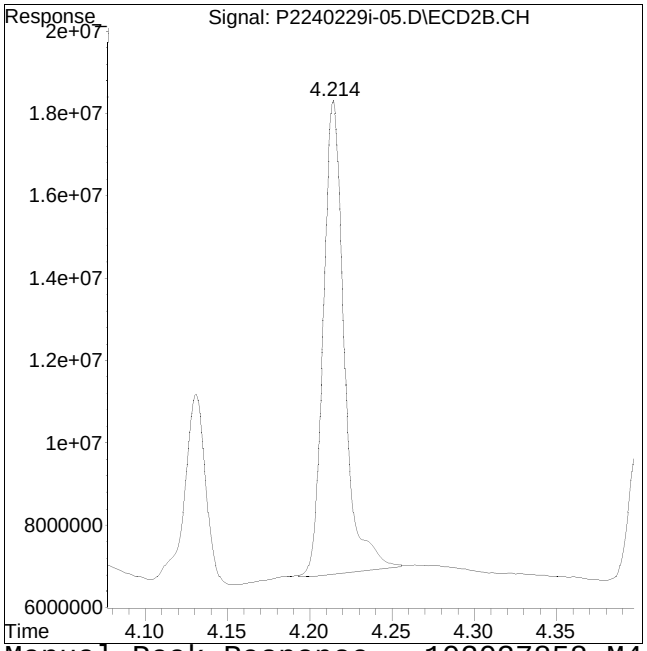
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240229I\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240229i-05.D Operator : pest2:rmp/kb
Date Inj'd : 2/29/2024 12:47 pm Instrument : Pest 2
Sample : il43262,42e,,pp 11457 Quant Date : 2/29/2024 3:21 pm

Compound #101: 1262-5 #2





Original Peak Response = 163014733 Manual Peak Response = 102037858 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240229I\
Data File : P2240229i-06.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Feb 2024 12:55 pm
Operator : pest2:rmp/kb
Sample : il41248,42e,,pp 11452
Misc : WG1891083,, (Sig #1); ,,ical (Sig #2)
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Feb 29 15:26:21 2024
Quant Method : I:\PCB\Pest2\2024\240229I\P2_pcb_02_29_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Thu Feb 29 15:25:40 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
14) i	2154_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
23) i	4268_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
34) i	1248_1br2nb	1.164	1.234	239.0E6	287.1E6	25.000M4	25.000M4
40) i	3262_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	20.000	Range 30 - 150	Recovery	=	0.00%#	0.00%#
3) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	20.000	Range 30 - 150	Recovery	=	0.00%#	0.00%#
	Target Compounds						
4) l1	1016-1	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-2	0.000	0.000	0	0	N.D. d	N.D. d
6) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
8) l1	1016-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1016-1			0	0	N.D.	N.D.
	Average 1016-1					0.000	0.000
9) l2	1260-1	0.000	0.000	0	0	N.D. d	N.D. d
10) l2	1260-2	0.000	0.000	0	0	N.D. d	N.D. d
11) l2	1260-3	0.000	0.000	0	0	N.D. d	N.D. d
12) l2	1260-4	0.000	0.000	0	0	N.D. d	N.D. d
13) l2	1260-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1260-1			0	0	N.D.	N.D.
	Average 1260-1					0.000	0.000
15) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d
16) l3	1221-3	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240229I\
Data File : P2240229i-06.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Feb 2024 12:55 pm
Operator : pest2:rmp/kb
Sample : il41248,42e,,pp 11452
Misc : WG1891083,, (Sig #1); ,,ical (Sig #2)
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Feb 29 15:26:21 2024
Quant Method : I:\PCB\Pest2\2024\240229I\P2_pcb_02_29_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Thu Feb 29 15:25:40 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
17) l3	1221-4	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1221-2			0	0	N.D.	N.D.
Average	1221-2					0.000	0.000
18) l4	1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4	1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4	1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4	1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4	1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254-1			0	0	N.D.	N.D.
Average	1254-1					0.000	0.000
24) l6	1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6	1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6	1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6	1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6	1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242-1			0	0	N.D.	N.D.
Average	1242-1					0.000	0.000
29) l9	1268-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l9	1268-2	0.000	0.000	0	0	N.D. d	N.D. d
31) l9	1268-3	0.000	0.000	0	0	N.D.	N.D.
32) l9	1268-4	0.000	0.000	0	0	N.D. d	N.D. d
33) l9	1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1268-1			0	0	N.D.	N.D.
Average	1268-1					0.000	0.000
35) l7	1248-1	1.911	2.176	124.3E6	141.0E6	251.024	252.075M1
36) l7	1248-2	2.049	2.331	160.6E6	93687522	254.930M1	251.108
37) l7	1248-3	2.145	2.458	141.0E6	115.1E6	248.402M4	251.108
38) l7	1248-4	2.328	2.633	126.9E6	119.5E6	251.024	251.108
39) l7	1248-5	2.341	2.657	108.5E6	136.5E6	251.024	251.108

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240229I\
Data File : P2240229i-06.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Feb 2024 12:55 pm
Operator : pest2:rmp/kb
Sample : il41248,42e,,pp 11452
Misc : WG1891083,, (Sig #1); ,,ical (Sig #2)
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Feb 29 15:26:21 2024
Quant Method : I:\PCB\Pest2\2024\240229I\P2_pcb_02_29_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Thu Feb 29 15:25:40 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Sum	1248-1			661.3E6	605.8E6	N.D.	N.D. D
Average	1248-1					251.281	251.301
41) l5	1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5	1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5	1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5	1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5	1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1232-1			0	0	N.D.	N.D.
Average	1232-1					0.000	0.000
46) l8	1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8	1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8	1262-3	0.000	0.000	0	0	N.D. d	N.D. d
49) l8	1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50) l8	1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

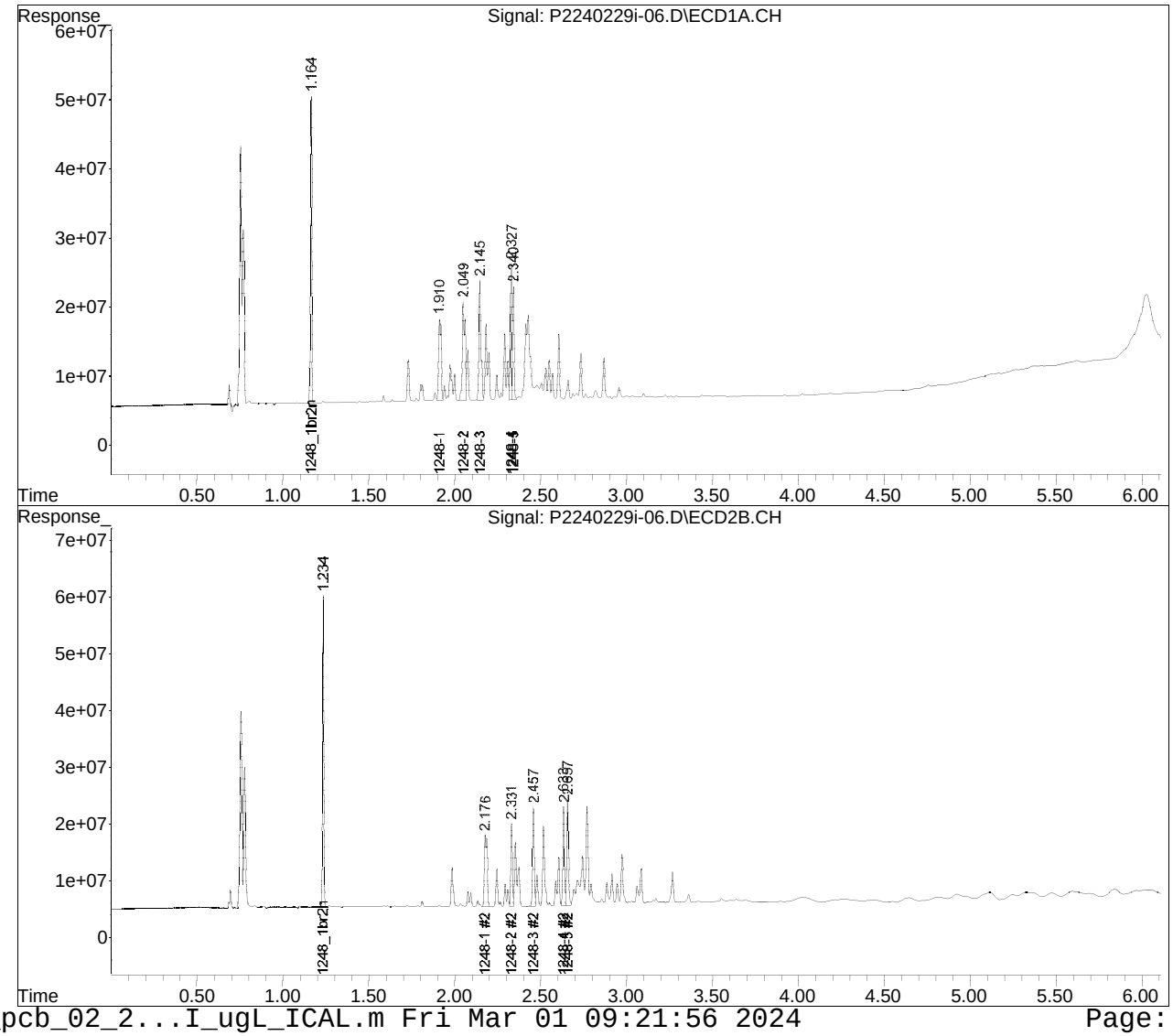
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PCB\Pest2\2024\240229I\
Data File : P2240229i-06.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Feb 2024 12:55 pm
Operator : pest2:rmp/kb
Sample : il41248,42e,,pp 11452
Misc : WG1891083,, (Sig #1); ,,ical (Sig #2)
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Feb 29 15:26:21 2024
Quant Method : I:\PCB\Pest2\2024\240229I\P2_pcb_02_29_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Thu Feb 29 15:25:40 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

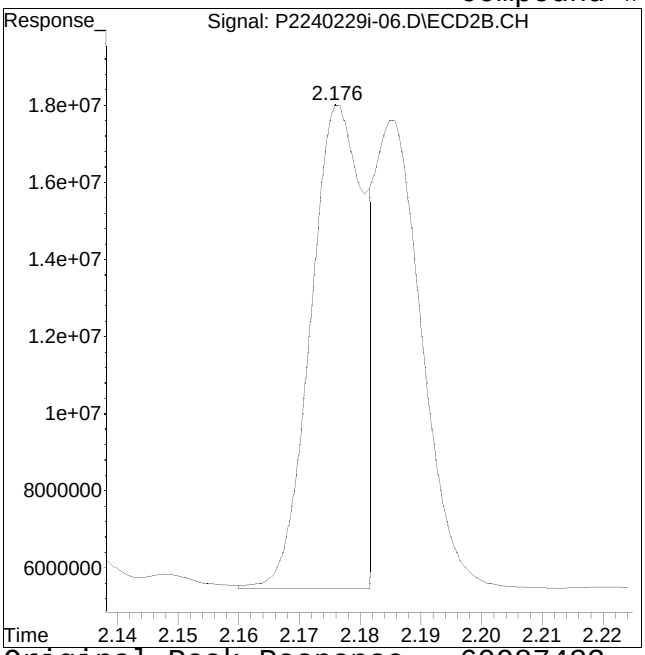
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

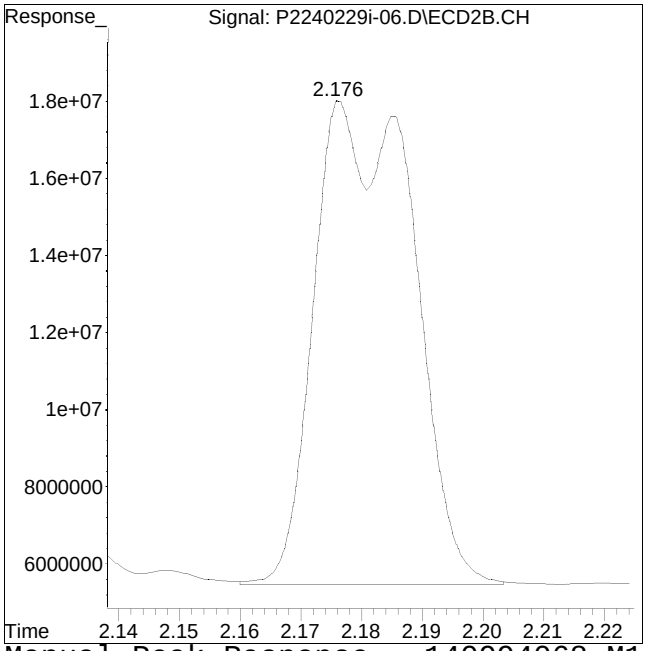


Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240229I\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240229i-06.D Operator : pest2:rmp/kb
Date Inj'd : 2/29/2024 12:55 pm Instrument : Pest 2
Sample : il41248,42e,,pp 11452 Quant Date : 2/29/2024 3:25 pm

Compound #86: 1248-1 #2



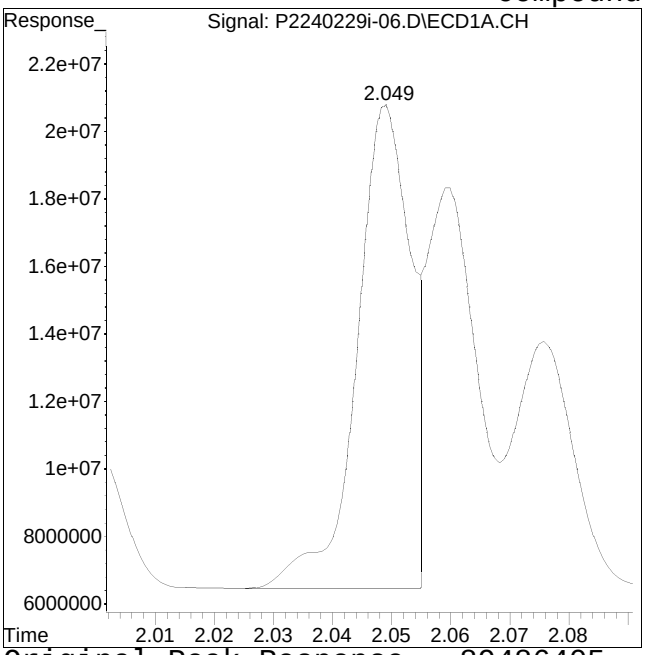


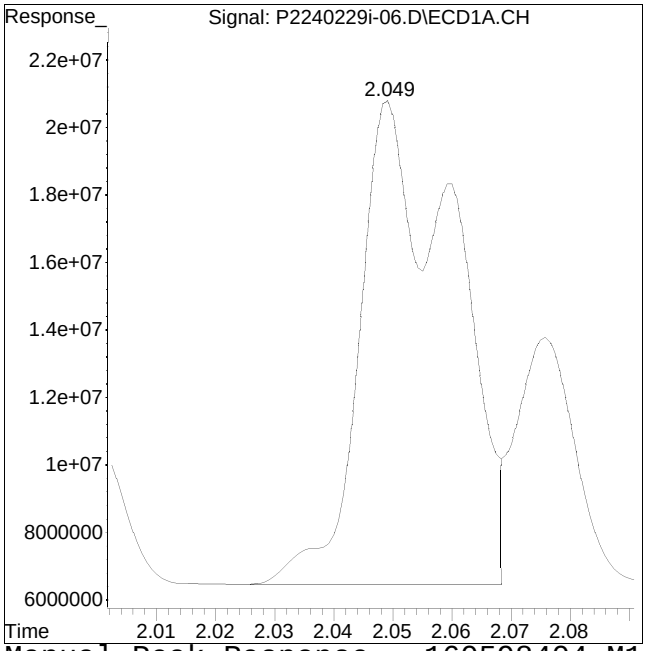
Original Peak Response = 69987433 Manual Peak Response = 140994068 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240229I\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240229i-06.D Operator : pest2:rmp/kb
Date Inj'd : 2/29/2024 12:55 pm Instrument : Pest 2
Sample : il41248,42e,,pp 11452 Quant Date : 2/29/2024 3:25 pm

Compound #36: 1248-2



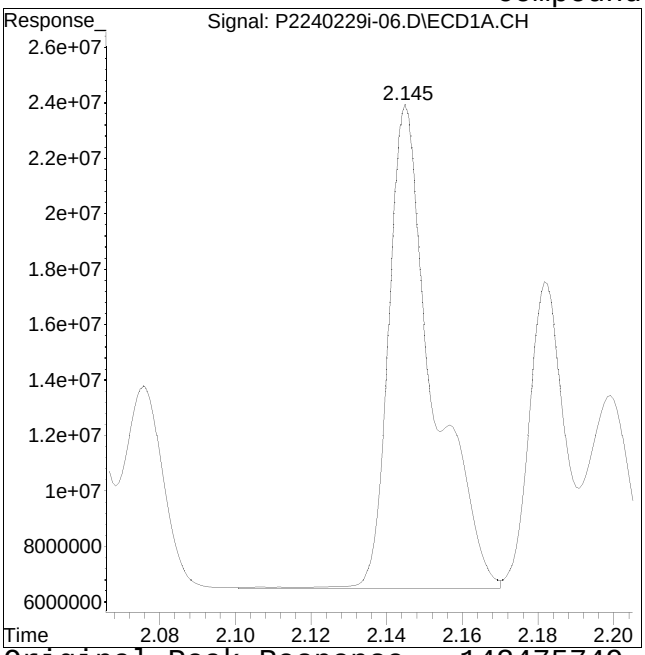


Original Peak Response = 89486405 Manual Peak Response = 160598404 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

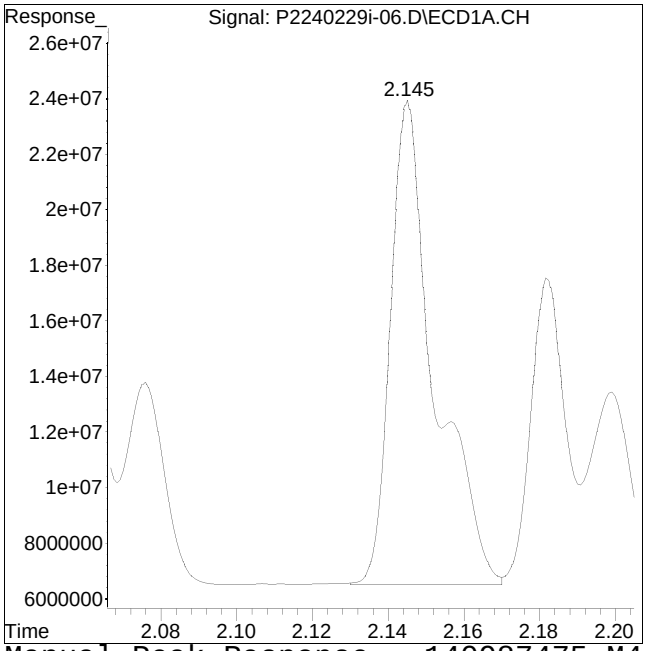
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240229I\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240229i-06.D Operator : pest2:rmp/kb
Date Inj'd : 2/29/2024 12:55 pm Instrument : Pest 2
Sample : il41248,42e,,pp 11452 Quant Date : 2/29/2024 3:25 pm

Compound #37: 1248-3



Original Peak Response = 142475749



Manual Peak Response = 140987475 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240229I\
Data File : P2240229i-07.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Feb 2024 1:05 pm
Operator : pest2:rmp/kb
Sample : il42154,42e,,pp 11449
Misc : WG1891083,, (Sig #1); ,,ical (Sig #2)
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Feb 29 16:00:08 2024
Quant Method : I:\PCB\Pest2\2024\240229I\P2_pcb_02_29_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Thu Feb 29 15:27:50 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
14) i	2154_1br2nb	1.166	1.234	230.6E6	275.6E6	25.000	25.000M4
23) i	4268_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
34) i	1248_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
40) i	3262_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
Spiked Amount	20.000	Range 30 - 150		Recovery =		0.00%#	0.00%#
3) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
Spiked Amount	20.000	Range 30 - 150		Recovery =		0.00%#	0.00%#
	Target Compounds						
4) l1	1016-1	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-2	0.000	0.000	0	0	N.D. d	N.D. d
6) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
8) l1	1016-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1016-1			0	0	N.D.	N.D.
Average	1016-1					0.000	0.000
9) l2	1260-1	0.000	0.000	0	0	N.D. d	N.D. d
10) l2	1260-2	0.000	0.000	0	0	N.D. d	N.D. d
11) l2	1260-3	0.000	0.000	0	0	N.D. d	N.D. d
12) l2	1260-4	0.000	0.000	0	0	N.D. d	N.D. d
13) l2	1260-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1260-1			0	0	N.D.	N.D.
Average	1260-1					0.000	0.000
15) l3	1221-2	1.515	1.726	29734519	34861775	250.000	218.095M4
16) l3	1221-3	1.575	1.786	18464130	21894289	250.000	225.445M4
17) l3	1221-4	1.591	1.812	72163769	80469983	250.000	244.171M4

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240229I\
Data File : P2240229i-07.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Feb 2024 1:05 pm
Operator : pest2:rmp/kb
Sample : il42154,42e,,pp 11449
Misc : WG1891083,, (Sig #1); ,,ical (Sig #2)
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Feb 29 16:00:08 2024
Quant Method : I:\PCB\Pest2\2024\240229I\P2_pcb_02_29_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Thu Feb 29 15:27:50 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Sum	1221-2			120.4E6	137.2E6	750.000	687.711
Average	1221-2					250.000	229.237
18) l4	1254-1	2.313	2.635	102.1E6	49653479	250.000	227.006M4
19) l4	1254-2	2.425	2.743	189.9E6	136.3E6	231.527M4	191.329M4
20) l4	1254-3	2.609	2.974	177.1E6	191.4E6	250.000	240.694M4
21) l4	1254-4	2.739	3.085	136.6E6	124.3E6	250.000	233.241M4
22) l4	1254-5	2.962	3.363	189.5E6	174.1E6	250.000	232.763M4
Sum	1254-1			795.2E6	675.6E6	N.D.	N.D. D
Average	1254-1					246.305	225.007
24) l6	1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6	1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6	1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6	1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6	1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242-1			0	0	N.D.	N.D.
Average	1242-1					0.000	0.000
29) l9	1268-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l9	1268-2	0.000	0.000	0	0	N.D. d	N.D. d
31) l9	1268-3	0.000	0.000	0	0	N.D. d	N.D. d
32) l9	1268-4	0.000	0.000	0	0	N.D. d	N.D. d
33) l9	1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1268-1			0	0	N.D.	N.D.
Average	1268-1					0.000	0.000
35) l7	1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7	1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7	1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7	1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7	1248-5	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240229I\
Data File : P2240229i-07.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Feb 2024 1:05 pm
Operator : pest2:rmp/kb
Sample : il42154,42e,,pp 11449
Misc : WG1891083,, (Sig #1); ,,ical (Sig #2)
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Feb 29 16:00:08 2024
Quant Method : I:\PCB\Pest2\2024\240229I\P2_pcb_02_29_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Thu Feb 29 15:27:50 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Sum	1248-1			0	0	N.D.	N.D.
Average	1248-1					0.000	0.000
41) l5	1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5	1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5	1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5	1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5	1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1232-1			0	0	N.D.	N.D.
Average	1232-1					0.000	0.000
46) l8	1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8	1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8	1262-3	0.000	0.000	0	0	N.D. d	N.D. d
49) l8	1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50) l8	1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

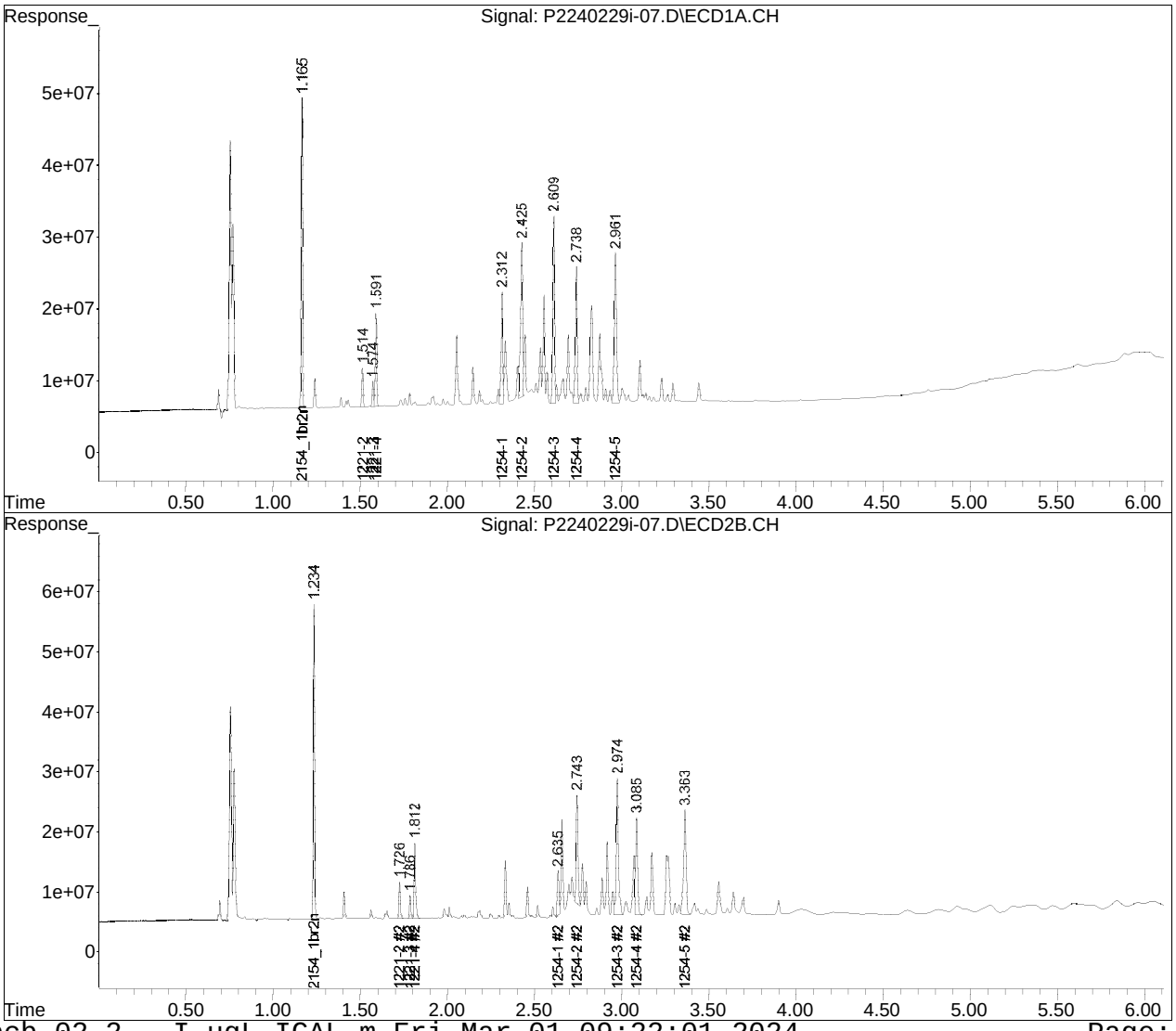
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PCB\Pest2\2024\240229I\
Data File : P2240229i-07.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Feb 2024 1:05 pm
Operator : pest2:rmp/kb
Sample : il42154,42e,,pp 11449
Misc : WG1891083,, (Sig #1); ,,ical (Sig #2)
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Feb 29 16:00:08 2024
Quant Method : I:\PCB\Pest2\2024\240229I\P2_pcb_02_29_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Thu Feb 29 15:27:50 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

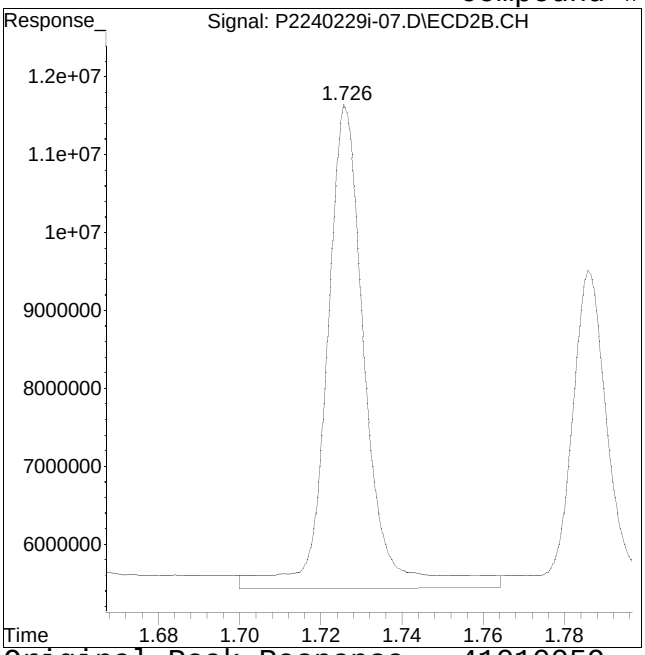
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



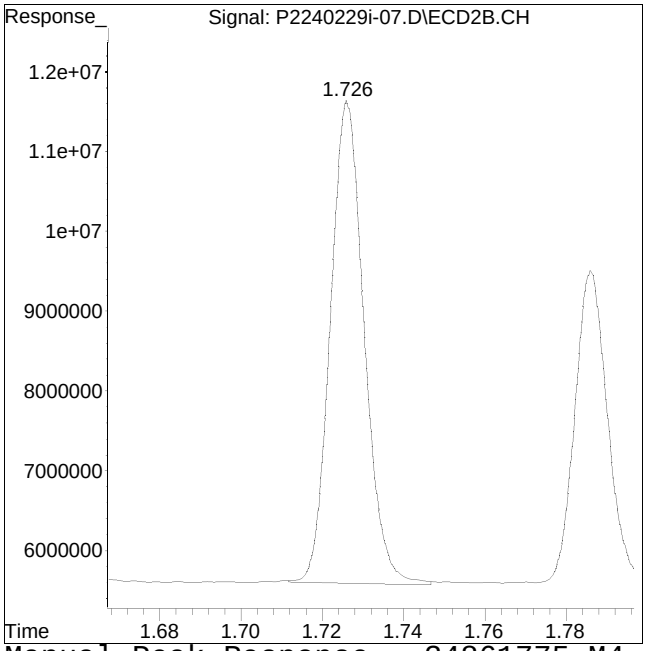
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240229I\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240229i-07.D Operator : pest2:rmp/kb
Date Inj'd : 2/29/2024 1:05 pm Instrument : Pest 2
Sample : il42154,42e,,pp 11449 Quant Date : 2/29/2024 3:27 pm

Compound #66: 1221-2 #2



Original Peak Response = 41010059



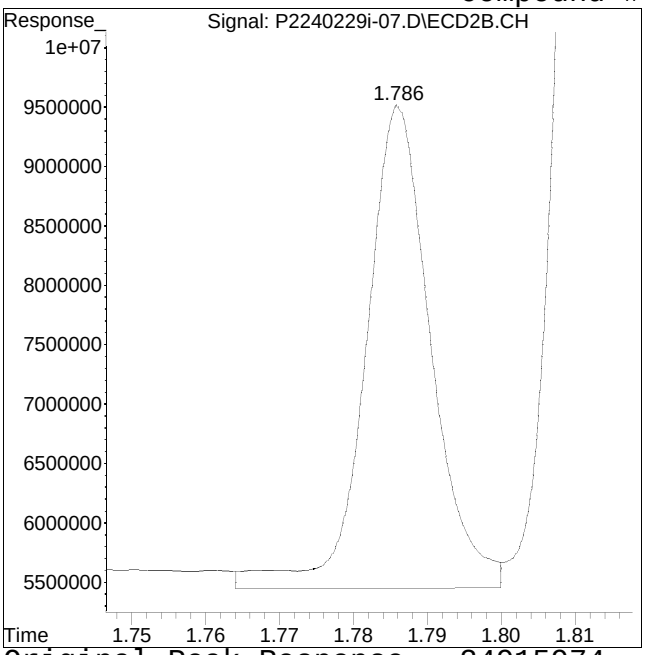
Manual Peak Response = 34861775 M4

M4 = Poor automated baseline construction.

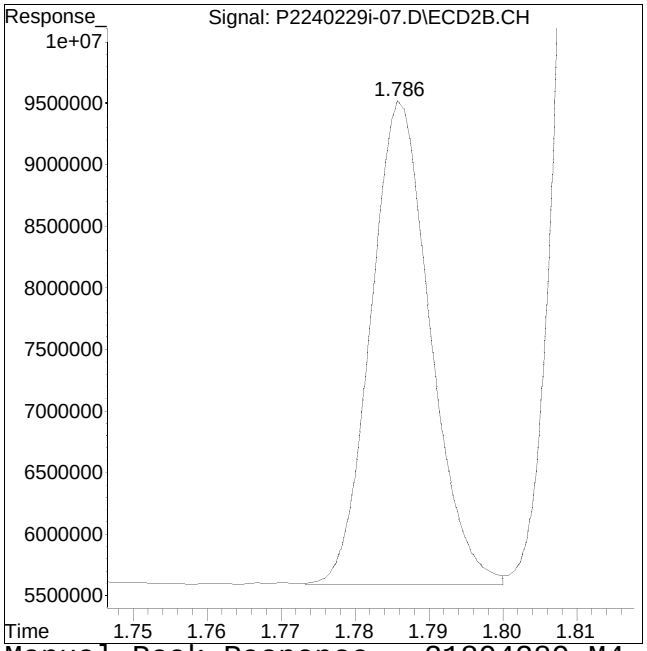
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240229I\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240229i-07.D Operator : pest2:rmp/kb
Date Inj'd : 2/29/2024 1:05 pm Instrument : Pest 2
Sample : il42154,42e,,pp 11449 Quant Date : 2/29/2024 3:27 pm

Compound #67: 1221-3 #2



Original Peak Response = 24915974



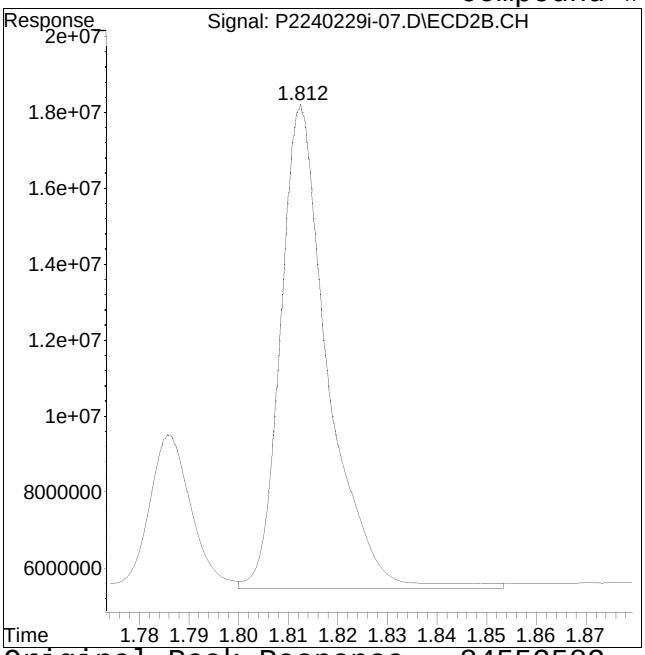
Manual Peak Response = 21894289 M4

M4 = Poor automated baseline construction.

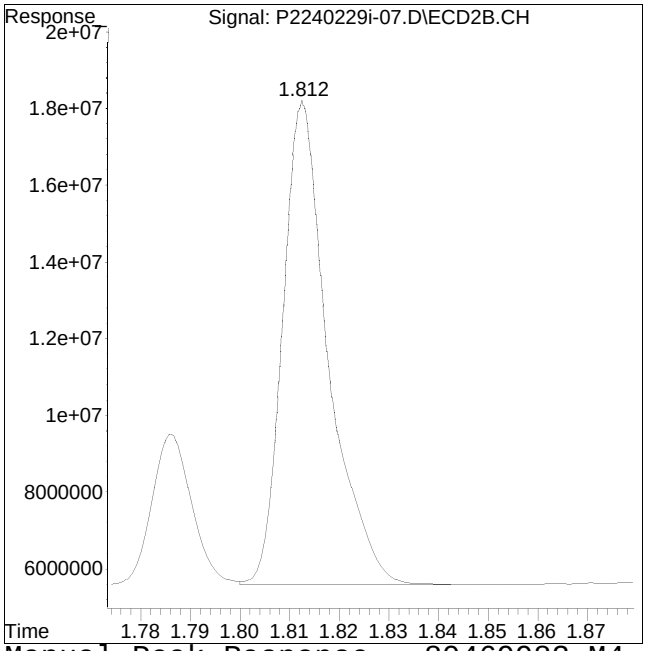
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240229I\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240229i-07.D Operator : pest2:rmp/kb
Date Inj'd : 2/29/2024 1:05 pm Instrument : Pest 2
Sample : il42154,42e,,pp 11449 Quant Date : 2/29/2024 3:27 pm

Compound #68: 1221-4 #2



Original Peak Response = 84552582



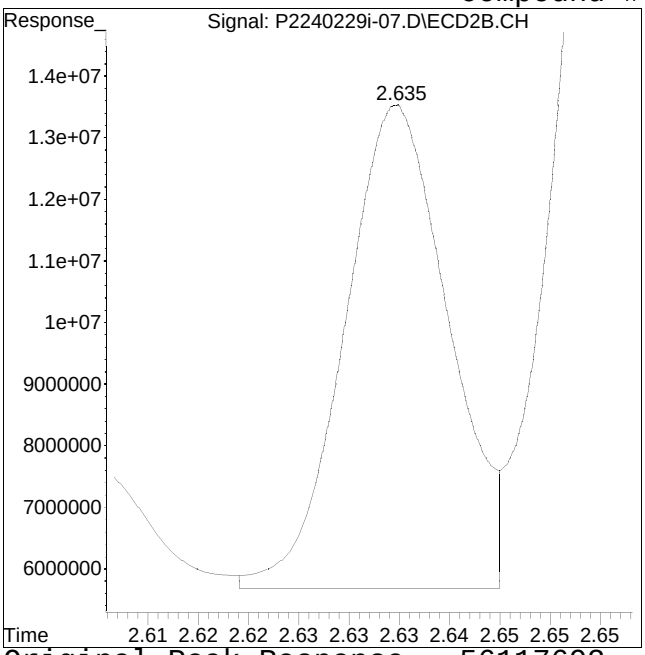
Manual Peak Response = 80469983 M4

M4 = Poor automated baseline construction.

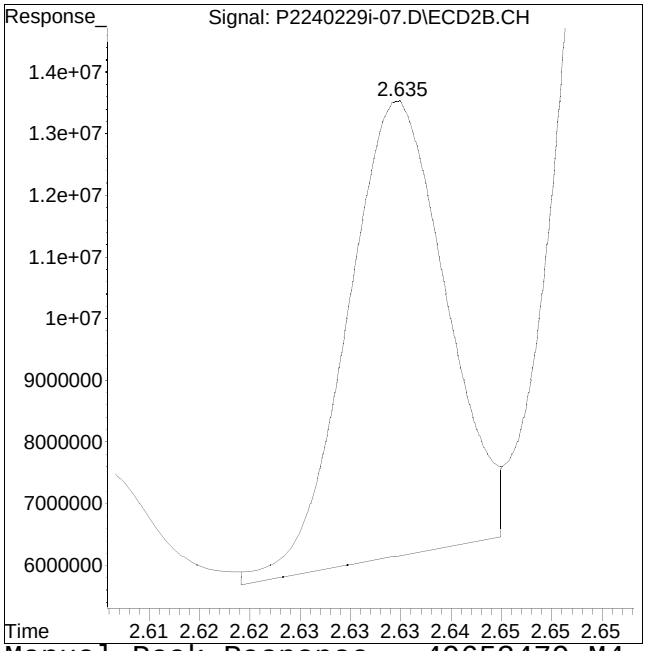
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240229I\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240229i-07.D Operator : pest2:rmp/kb
Date Inj'd : 2/29/2024 1:05 pm Instrument : Pest 2
Sample : il42154,42e,,pp 11449 Quant Date : 2/29/2024 3:27 pm

Compound #69: 1254-1 #2



Original Peak Response = 56117692



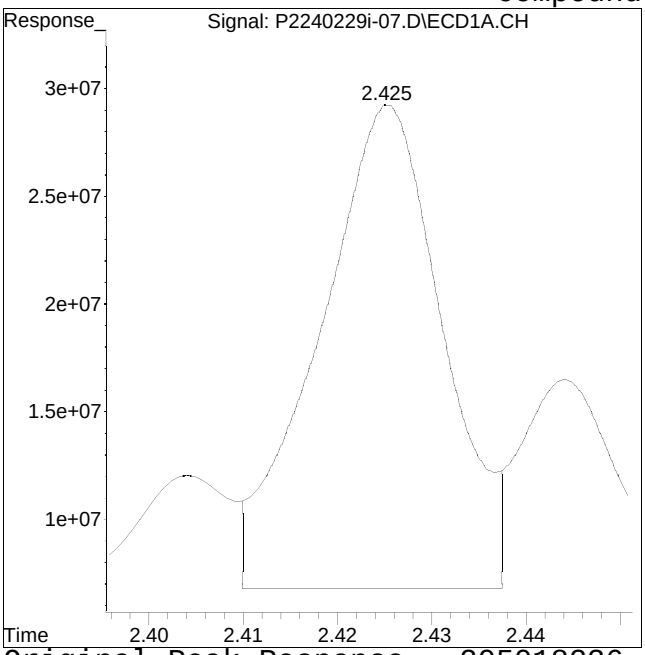
Manual Peak Response = 49653479 M4

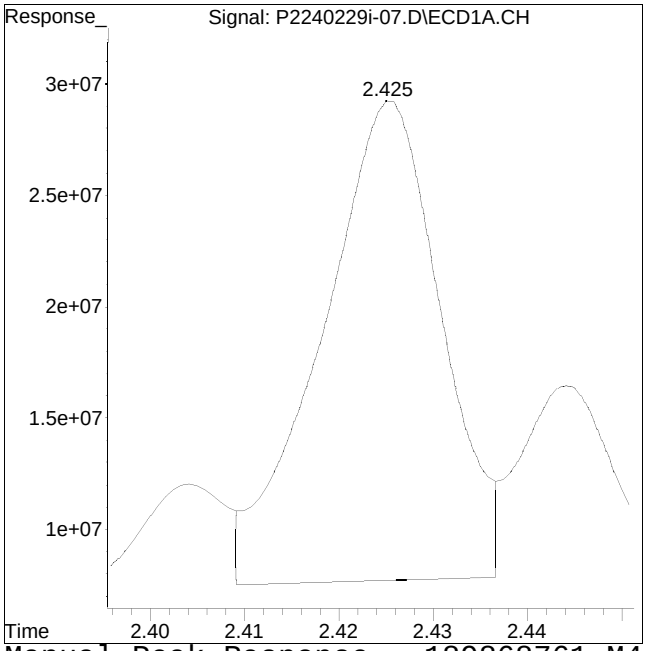
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240229I\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240229i-07.D Operator : pest2:rmp/kb
Date Inj'd : 2/29/2024 1:05 pm Instrument : Pest 2
Sample : il42154,42e,,pp 11449 Quant Date : 2/29/2024 3:27 pm

Compound #19: 1254-2



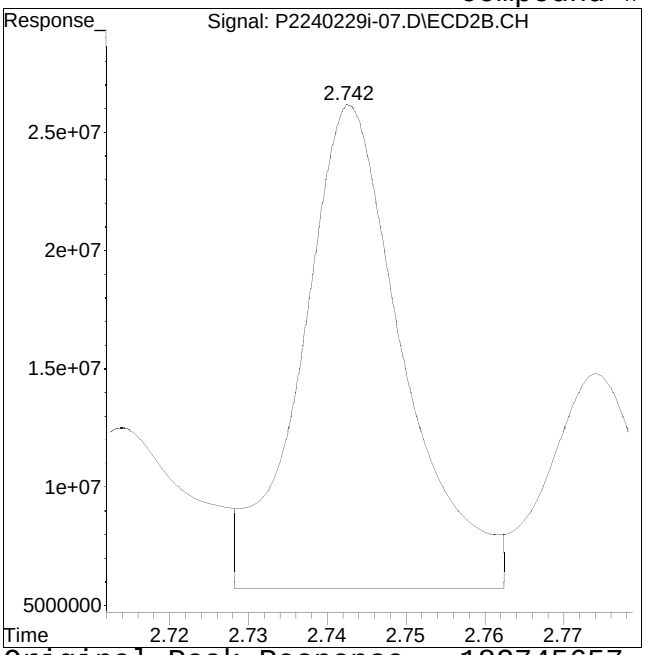


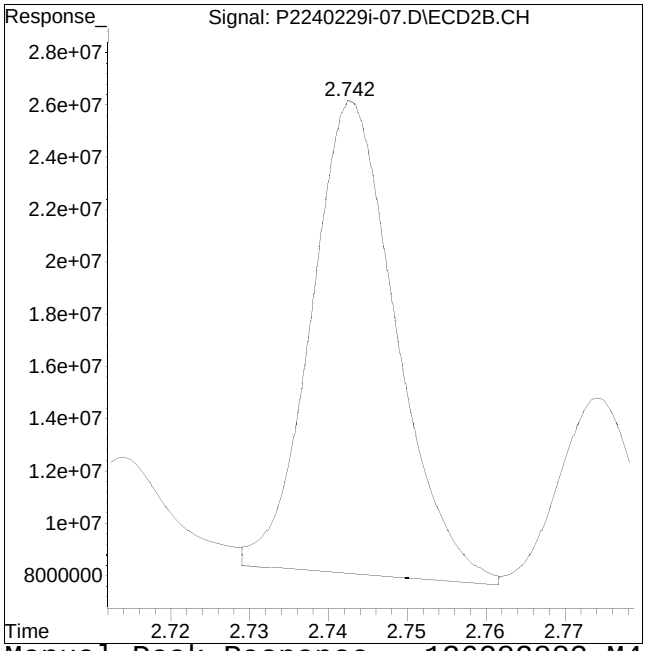
Original Peak Response = 205018236 Manual Peak Response = 189868761 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240229I\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240229i-07.D Operator : pest2:rmp/kb
Date Inj'd : 2/29/2024 1:05 pm Instrument : Pest 2
Sample : il42154,42e,,pp 11449 Quant Date : 2/29/2024 3:27 pm

Compound #70: 1254-2 #2



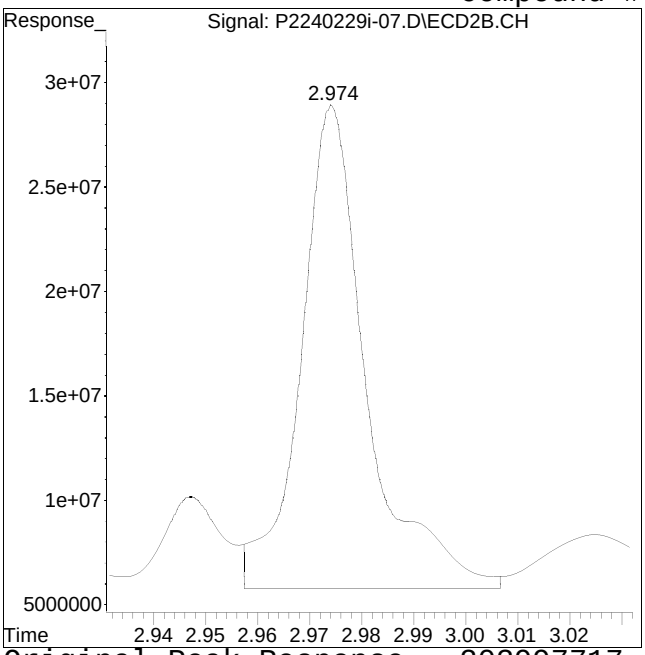


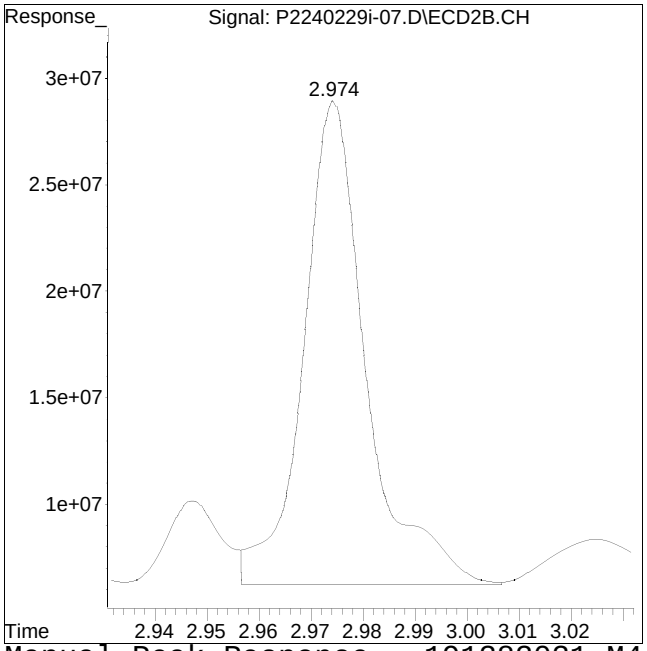
Original Peak Response = 182745657 Manual Peak Response = 136282883 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240229I\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240229i-07.D Operator : pest2:rmp/kb
Date Inj'd : 2/29/2024 1:05 pm Instrument : Pest 2
Sample : il42154,42e,,pp 11449 Quant Date : 2/29/2024 3:27 pm

Compound #71: 1254-3 #2



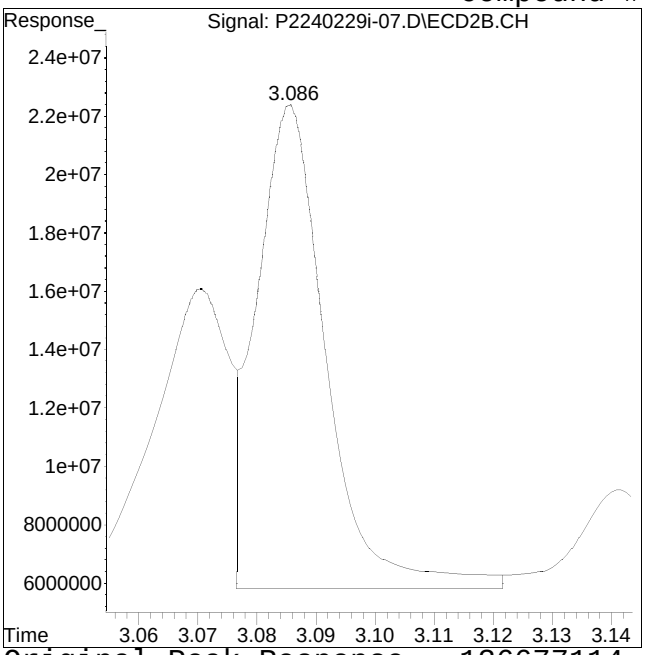


Original Peak Response = 203997717 Manual Peak Response = 191383031 M4
M4 = Poor automated baseline construction.

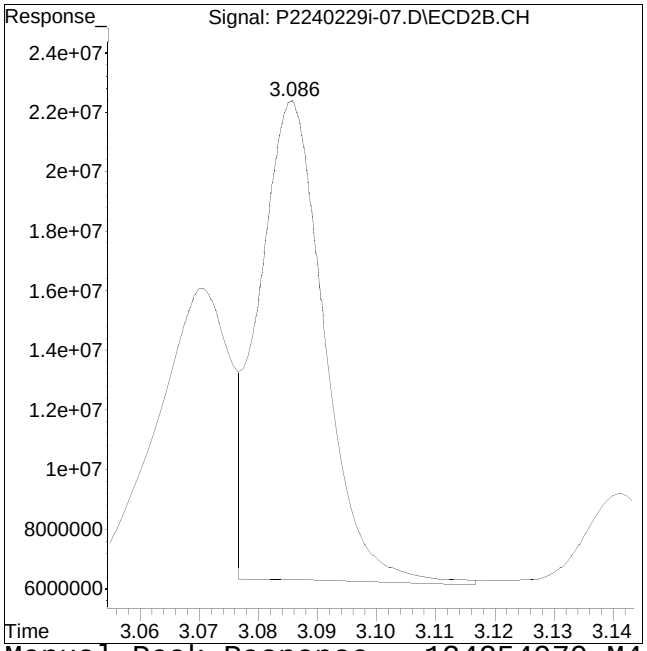
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240229I\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240229i-07.D Operator : pest2:rmp/kb
Date Inj'd : 2/29/2024 1:05 pm Instrument : Pest 2
Sample : il42154,42e,,pp 11449 Quant Date : 2/29/2024 3:27 pm

Compound #72: 1254-4 #2



Original Peak Response = 136677114



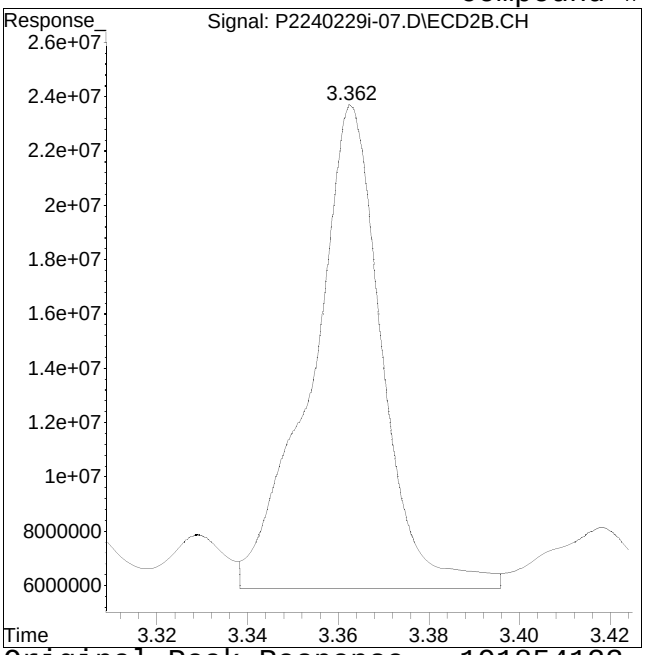
Manual Peak Response = 124254970 M4

M4 = Poor automated baseline construction.

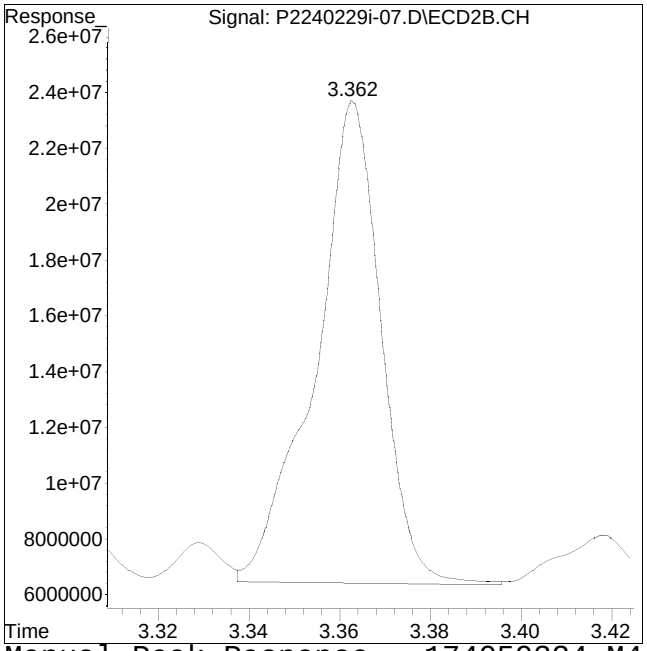
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240229I\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240229i-07.D Operator : pest2:rmp/kb
Date Inj'd : 2/29/2024 1:05 pm Instrument : Pest 2
Sample : il42154,42e,,pp 11449 Quant Date : 2/29/2024 3:27 pm

Compound #73: 1254-5 #2



Original Peak Response = 191854123



Manual Peak Response = 174059334 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240229I\
Data File : P2240229i-08.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Feb 2024 1:14 pm
Operator : pest2:rmp/kb
Sample : il11660,42e,,pp 11447
Misc : WG1891083,, (Sig #1); ,,ical (Sig #2)
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Feb 29 15:02:43 2024
Quant Method : I:\PCB\Pest2\2024\240229I\P2_pcb_02_29_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Thu Feb 29 14:43:35 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	1.166	1.234	222.9E6	282.6E6	25.000M4	25.000M4
14) i	2154_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
23) i	4268_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
34) i	1248_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
40) i	3262_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.452	1.610	7242280	8708135	0.514M4	0.639M4
	Spiked Amount	20.000	Range 30 - 150		Recovery =	2.57%#	3.19%#
3) s	Decachlorobi	4.029	4.550	12637595	11466000	1.609M4	1.667M4
	Spiked Amount	20.000	Range 30 - 150		Recovery =	8.04%#	8.34%#
	Target Compounds						
4) l1	1016-1	1.592	1.813	2112911	2596284	10.684M4	11.309M4
5) l1	1016-2	1.737	1.985	2552306	5860934	6.185M4	11.324M3
6) l1	1016-3	1.923	2.187	9606397	12117696	10.723M4	11.937M4
7) l1	1016-4	1.978	2.247	4104506	4955898	11.338M4	12.675M4
8) l1	1016-5	2.149	2.459	4464846	3369721	11.690M4	10.717M4
Sum	1016-1			22840966	28900532	50.620	57.961
Average	1016-1					10.124	11.592
9) l2	1260-1	2.694	3.071	6578820	6382033	11.489M4	11.495M4
10) l2	1260-2	2.824	3.173	9912564	8717450	11.675M4	12.920M4

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240229I\
Data File : P2240229i-08.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Feb 2024 1:14 pm
Operator : pest2:rmp/kb
Sample : il11660,42e,,pp 11447
Misc : WG1891083,, (Sig #1); ,,ical (Sig #2)
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Feb 29 15:02:43 2024
Quant Method : I:\PCB\Pest2\2024\240229I\P2_pcb_02_29_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Thu Feb 29 14:43:35 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
11) l2	1260-3	3.140	3.567	5998468	5706682	11.171M4	10.396M4
12) l2	1260-4	3.296	3.696	11236796	12907408	9.877M4	11.784M4
13) l2	1260-5	3.444	3.900	9087656	8966203	11.216M1	11.987M4
Sum	1260-1			42814306	42679776	NoCal	NoCal D
Average	1260-1					11.086	11.716
15) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d
16) l3	1221-3	0.000	0.000	0	0	N.D. d	N.D. d
17) l3	1221-4	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1221-2			0	0	N.D.	N.D.
Average	1221-2					0.000	0.000
18) l4	1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4	1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4	1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4	1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4	1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254-1			0	0	N.D.	N.D.
Average	1254-1					0.000	0.000
24) l6	1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6	1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6	1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6	1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6	1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242-1			0	0	N.D.	N.D.
Average	1242-1					0.000	0.000
29) l9	1268-1	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PCB\Pest2\2024\240229I\
Data File : P2240229i-08.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Feb 2024 1:14 pm
Operator : pest2:rmp/kb
Sample : il11660,42e,,pp 11447
Misc : WG1891083,, (Sig #1); ,,ical (Sig #2)
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Feb 29 15:02:43 2024
Quant Method : I:\PCB\Pest2\2024\240229I\P2_pcb_02_29_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Thu Feb 29 14:43:35 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
30) l9	1268-2	0.000	0.000	0	0	N.D. d	N.D. d
31) l9	1268-3	0.000	0.000	0	0	N.D.	N.D.
32) l9	1268-4	0.000	0.000	0	0	N.D. d	N.D. d
33) l9	1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1268-1			0	0	N.D.	N.D.
Average	1268-1					0.000	0.000
35) l7	1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7	1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7	1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7	1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7	1248-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1248-1			0	0	N.D.	N.D.
Average	1248-1					0.000	0.000
41) l5	1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5	1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5	1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5	1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5	1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1232-1			0	0	N.D.	N.D.
Average	1232-1					0.000	0.000
46) l8	1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8	1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8	1262-3	0.000	0.000	0	0	N.D. d	N.D. d
49) l8	1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50) l8	1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240229I\
Data File : P2240229i-08.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Feb 2024 1:14 pm
Operator : pest2:rmp/kb
Sample : il11660,42e,,pp 11447
Misc : WG1891083,, (Sig #1); ,,ical (Sig #2)
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Feb 29 15:02:43 2024
Quant Method : I:\PCB\Pest2\2024\240229I\P2_pcb_02_29_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Thu Feb 29 14:43:35 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000

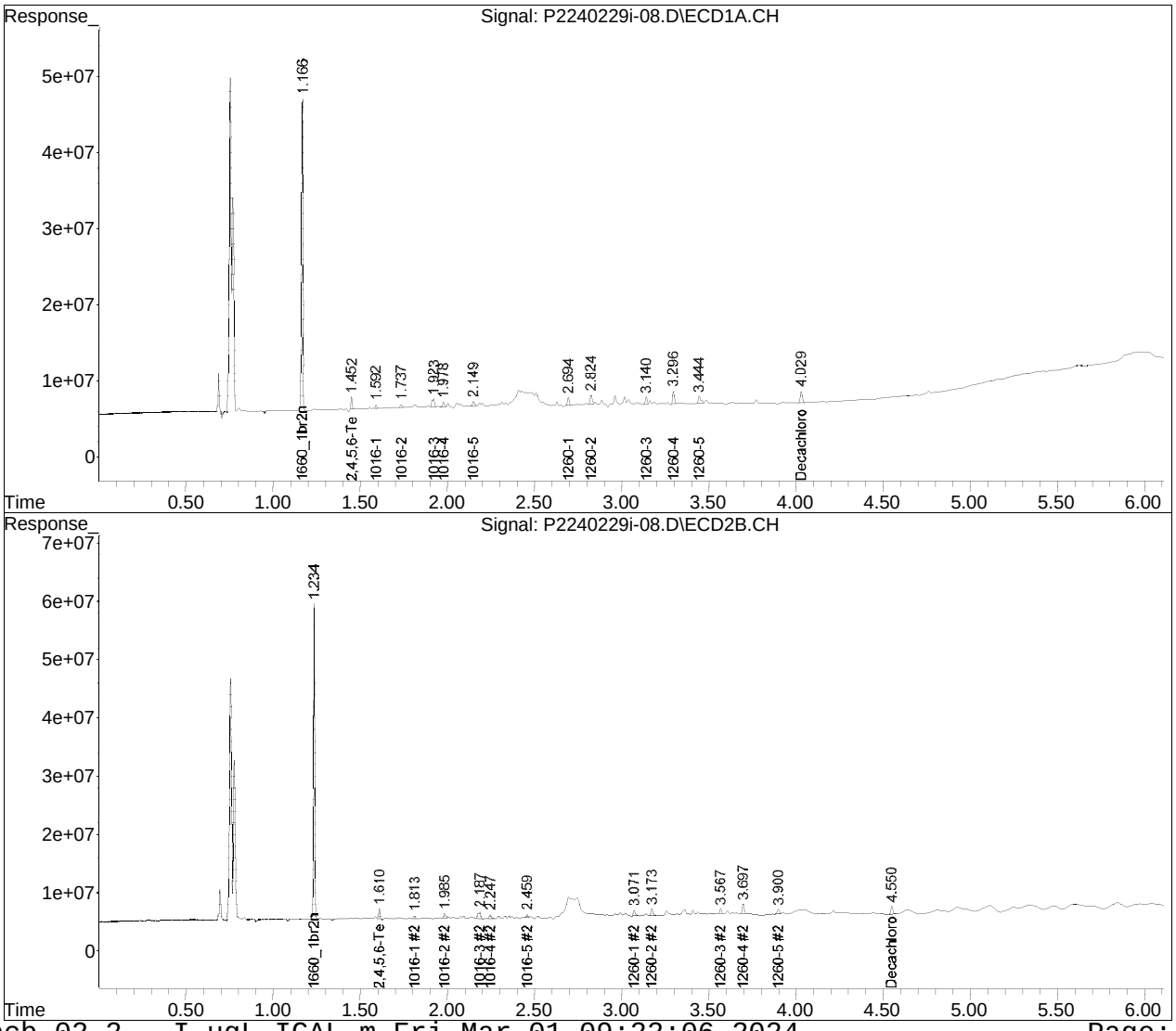
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PCB\Pest2\2024\240229I\
Data File : P2240229i-08.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Feb 2024 1:14 pm
Operator : pest2:rmp/kb
Sample : il11660,42e,,pp 11447
Misc : WG1891083,, (Sig #1); ,,ical (Sig #2)
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Feb 29 15:02:43 2024
Quant Method : I:\PCB\Pest2\2024\240229I\P2_pcb_02_29_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Thu Feb 29 14:43:35 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

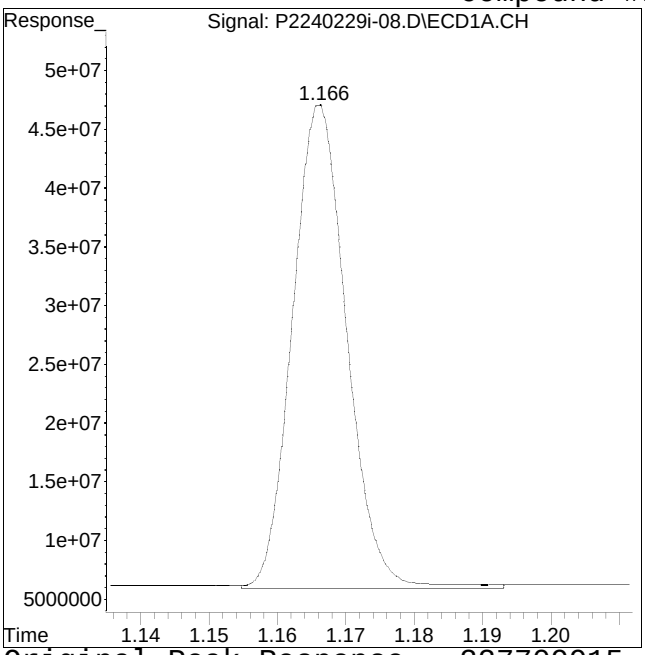
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

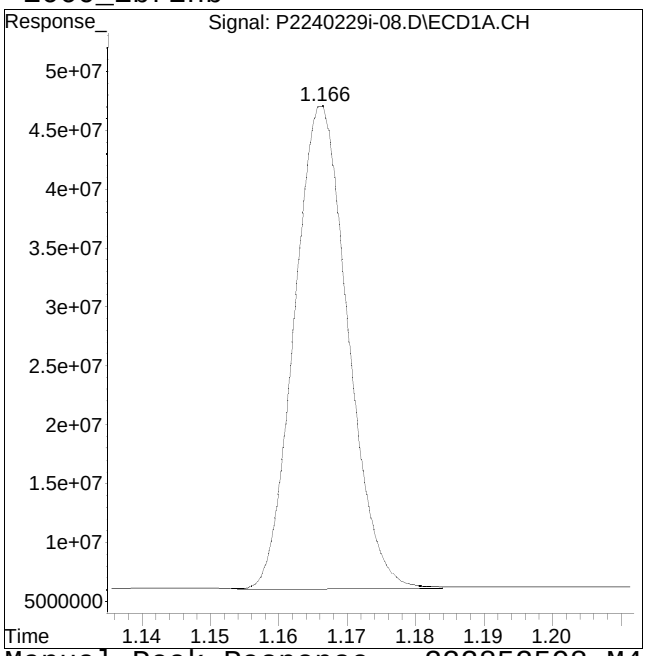


Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240229I\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240229i-08.D Operator : pest2:rmp/kb
Date Inj'd : 2/29/2024 1:14 pm Instrument : Pest 2
Sample : il11660,42e,,pp 11447 Quant Date : 2/29/2024 2:43 pm

Compound #1: 1660_1br2nb



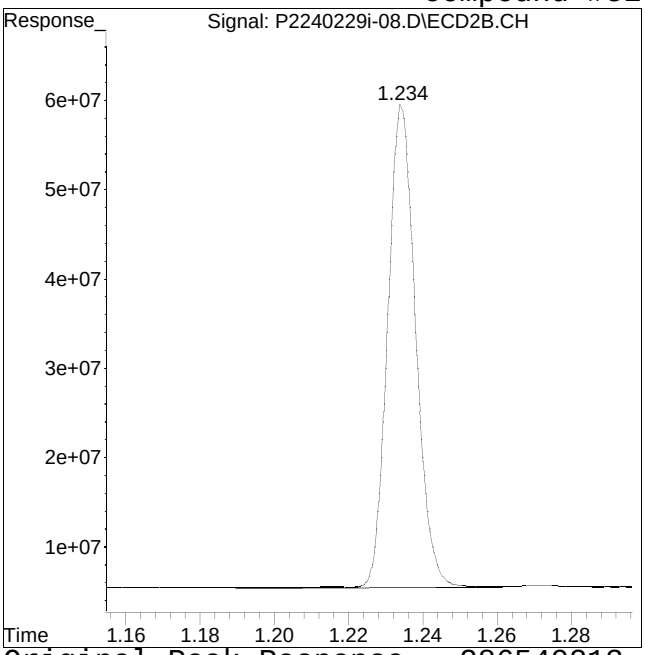


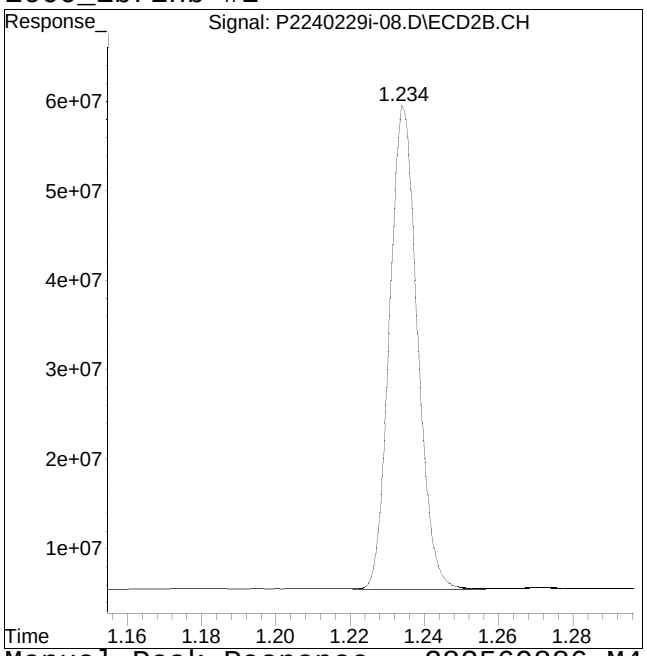
Original Peak Response = 227709915 Manual Peak Response = 222852598 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240229I\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240229i-08.D Operator : pest2:rmp/kb
Date Inj'd : 2/29/2024 1:14 pm Instrument : Pest 2
Sample : il11660,42e,,pp 11447 Quant Date : 2/29/2024 2:43 pm

Compound #52: 1660_1br2nb #2



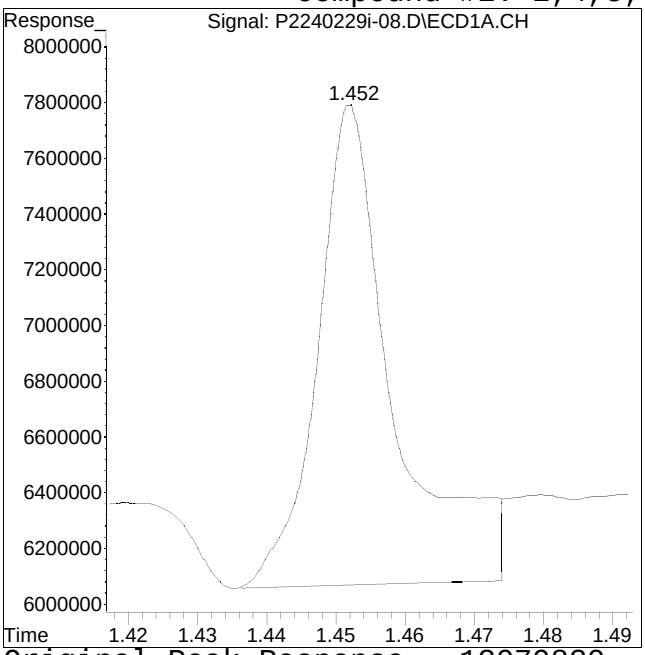


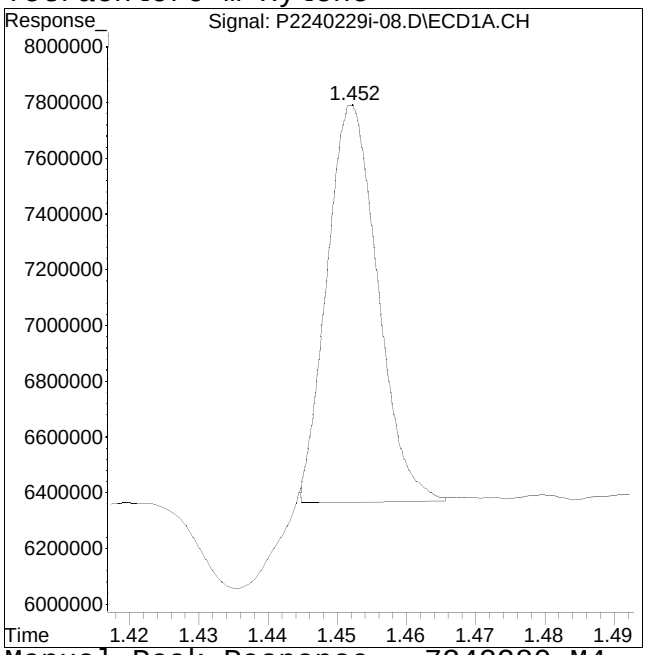
Original Peak Response = 286540213 Manual Peak Response = 282569886 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240229I\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240229i-08.D Operator : pest2:rmp/kb
Date Inj'd : 2/29/2024 1:14 pm Instrument : Pest 2
Sample : il11660,42e,,pp 11447 Quant Date : 2/29/2024 2:43 pm

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



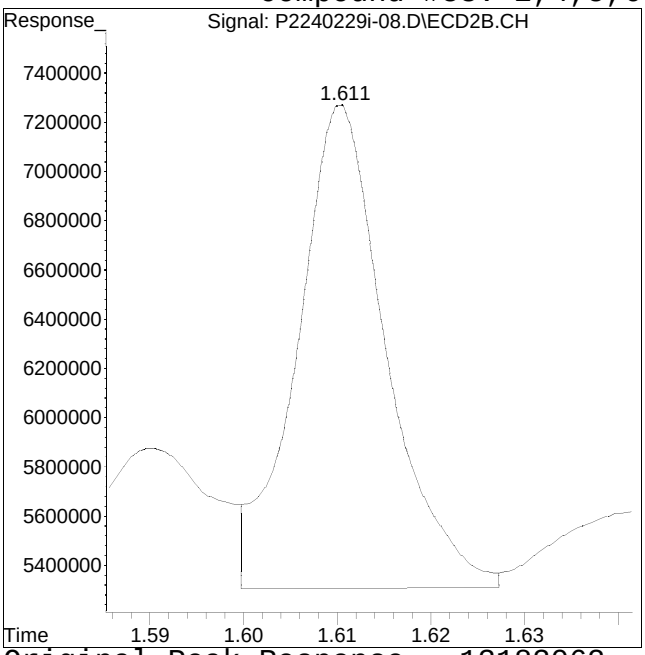


Original Peak Response = 13079830 Manual Peak Response = 7242280 M4
M4 = Poor automated baseline construction.

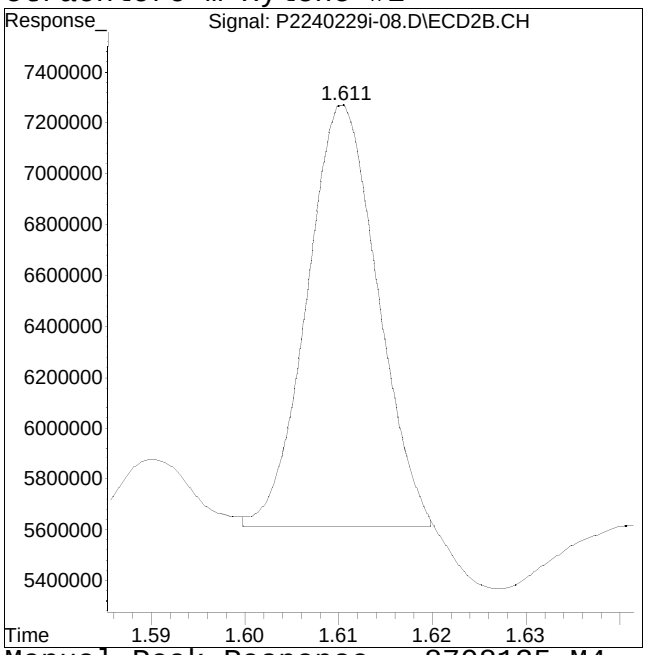
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240229I\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240229i-08.D Operator : pest2:rmp/kb
Date Inj'd : 2/29/2024 1:14 pm Instrument : Pest 2
Sample : il11660,42e,,pp 11447 Quant Date : 2/29/2024 2:43 pm

Compound #53: 2,4,5,6-Tetrachloro-m-xylene #2



Original Peak Response = 13183062



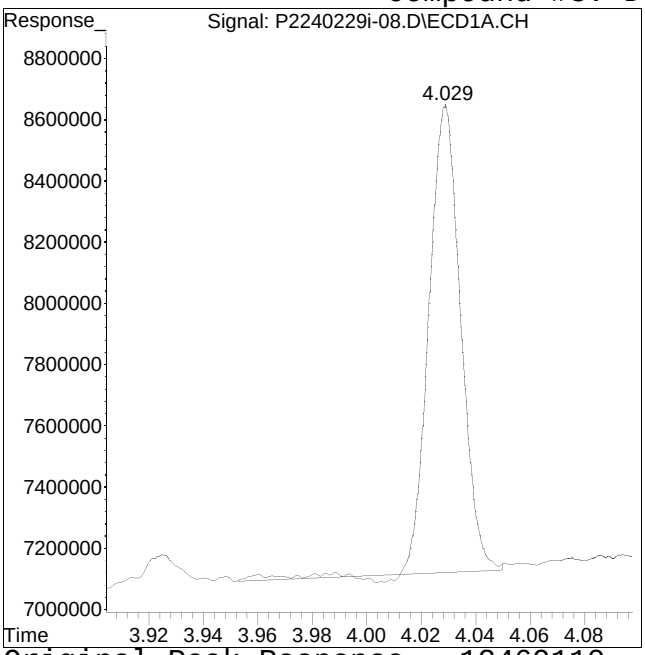
Manual Peak Response = 8708135 M4

M4 = Poor automated baseline construction.

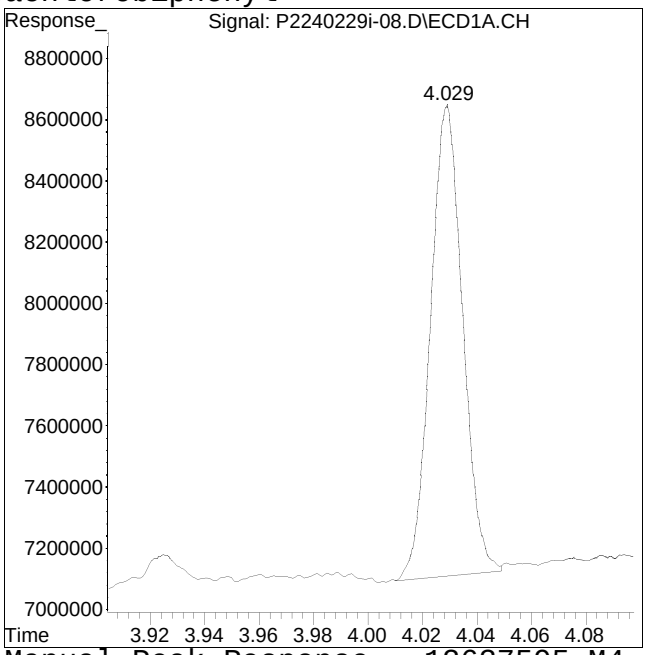
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240229I\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240229i-08.D Operator : pest2:rmp/kb
Date Inj'd : 2/29/2024 1:14 pm Instrument : Pest 2
Sample : il11660,42e,,pp 11447 Quant Date : 2/29/2024 2:43 pm

Compound #3: Decachlorobiphenyl



Original Peak Response = 12469110



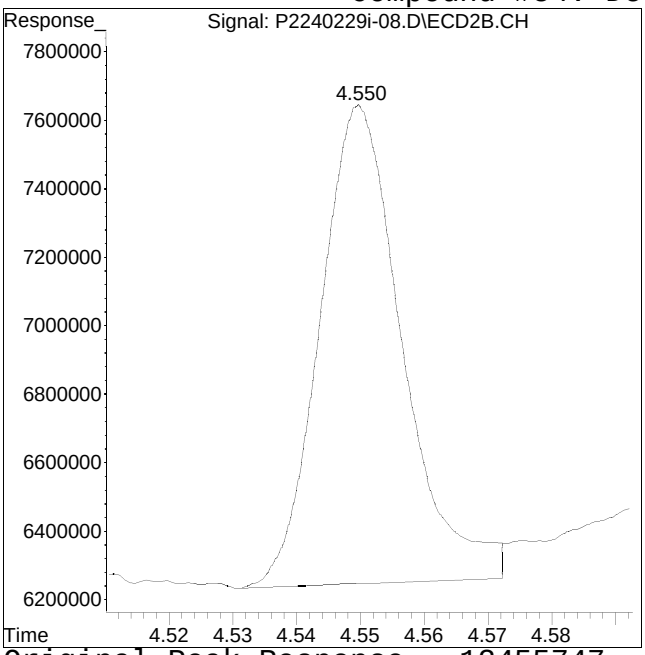
Manual Peak Response = 12637595 M4

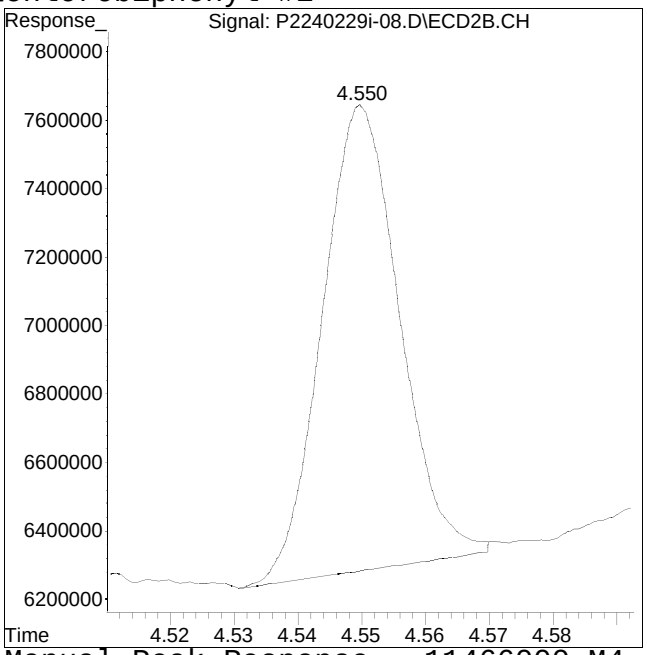
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240229I\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240229i-08.D Operator : pest2:rmp/kb
Date Inj'd : 2/29/2024 1:14 pm Instrument : Pest 2
Sample : il11660,42e,,pp 11447 Quant Date : 2/29/2024 2:43 pm

Compound #54: Decachlorobiphenyl #2



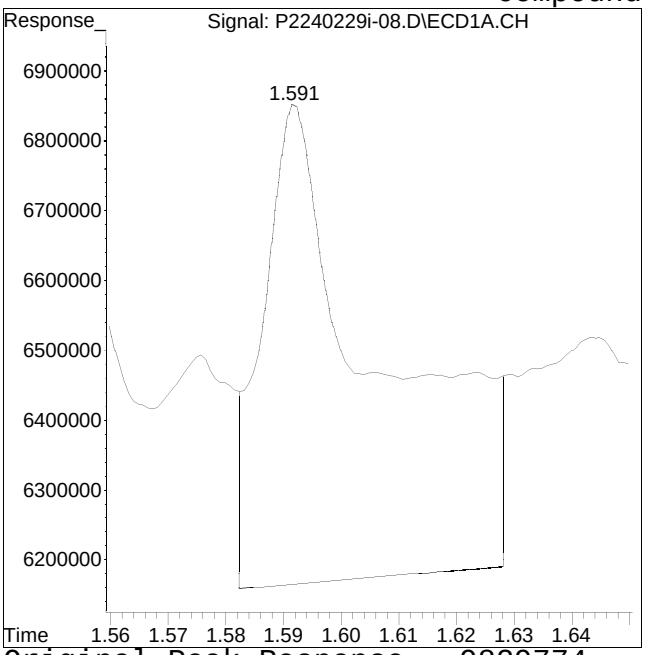


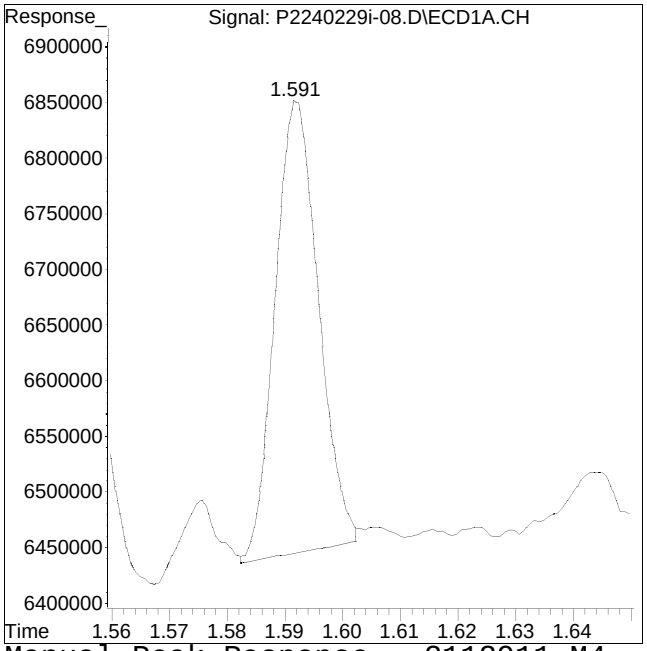
Original Peak Response = 12455747 Manual Peak Response = 11466000 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240229I\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240229i-08.D Operator : pest2:rmp/kb
Date Inj'd : 2/29/2024 1:14 pm Instrument : Pest 2
Sample : il11660,42e,,pp 11447 Quant Date : 2/29/2024 2:43 pm

Compound #4: 1016-1



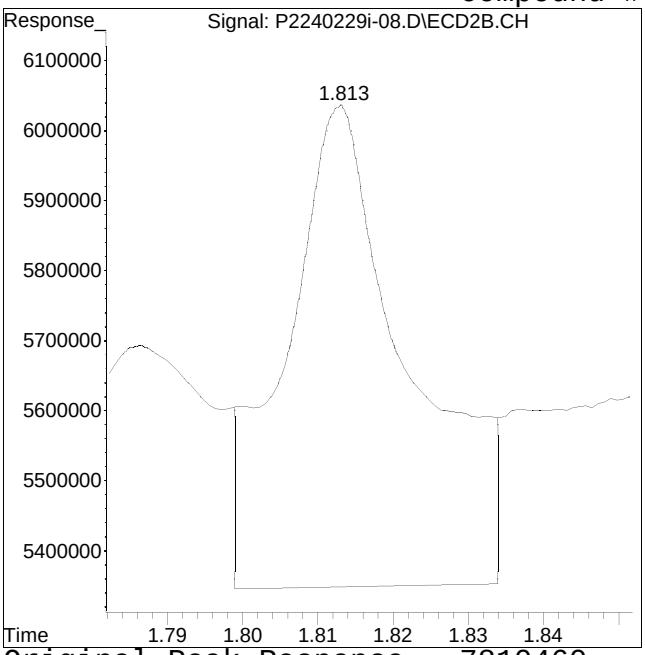


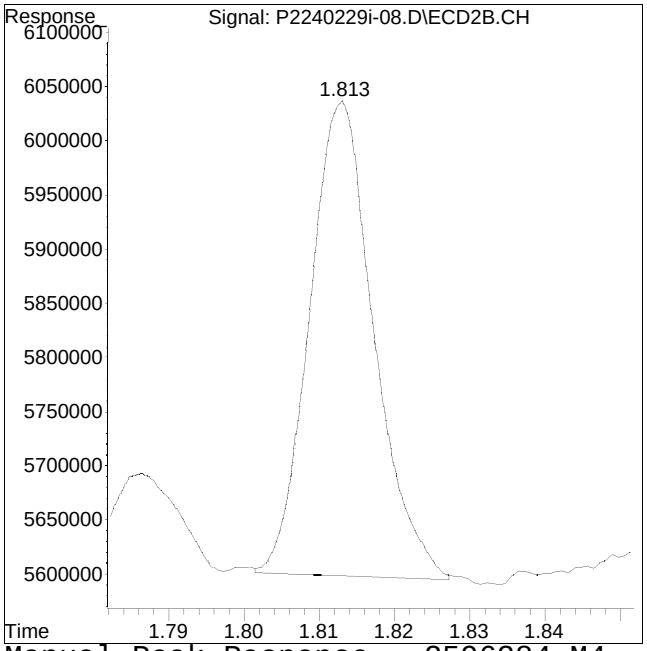
Original Peak Response = 9829774 Manual Peak Response = 2112911 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240229I\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240229i-08.D Operator : pest2:rmp/kb
Date Inj'd : 2/29/2024 1:14 pm Instrument : Pest 2
Sample : il11660,42e,,pp 11447 Quant Date : 2/29/2024 2:43 pm

Compound #55: 1016-1 #2



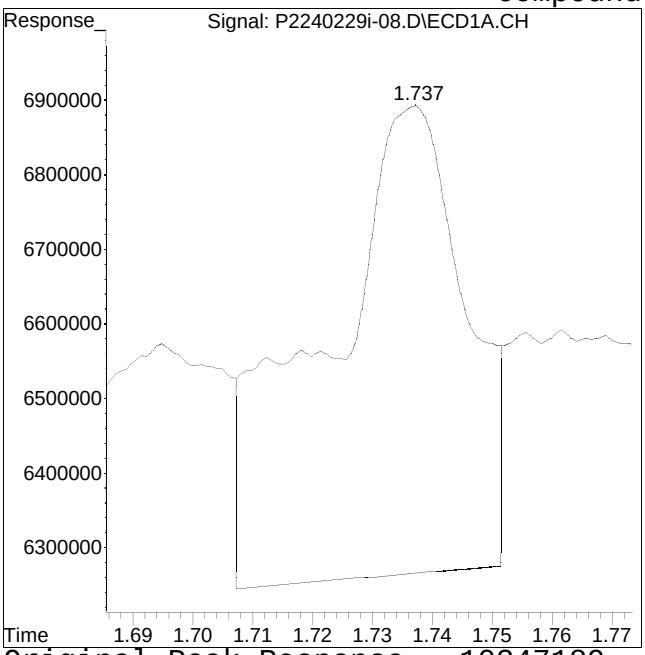


Original Peak Response = 7810460 Manual Peak Response = 2596284 M4
M4 = Poor automated baseline construction.

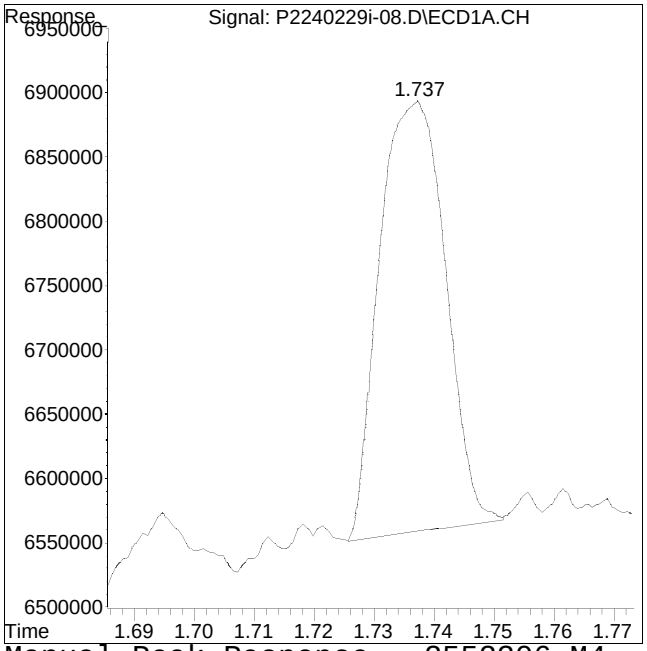
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240229I\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240229i-08.D Operator : pest2:rmp/kb
Date Inj'd : 2/29/2024 1:14 pm Instrument : Pest 2
Sample : il11660,42e,,pp 11447 Quant Date : 2/29/2024 2:43 pm

Compound #5: 1016-2



Original Peak Response = 10347189



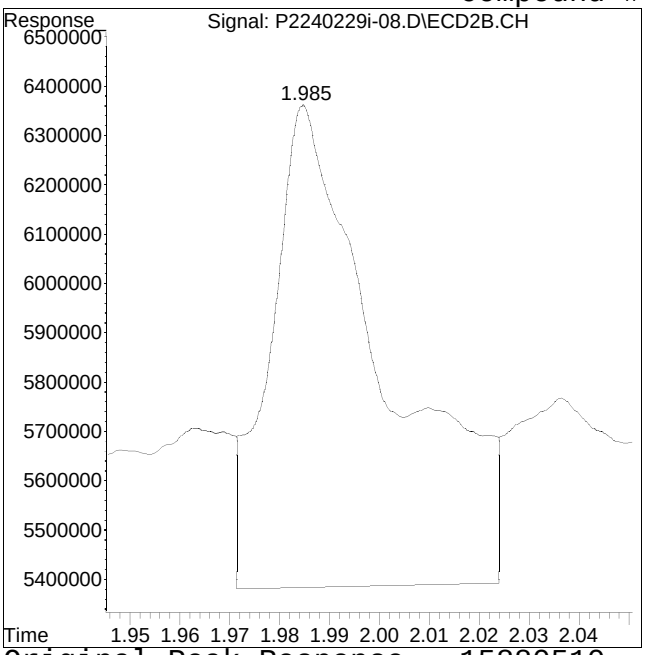
Manual Peak Response = 2552306 M4

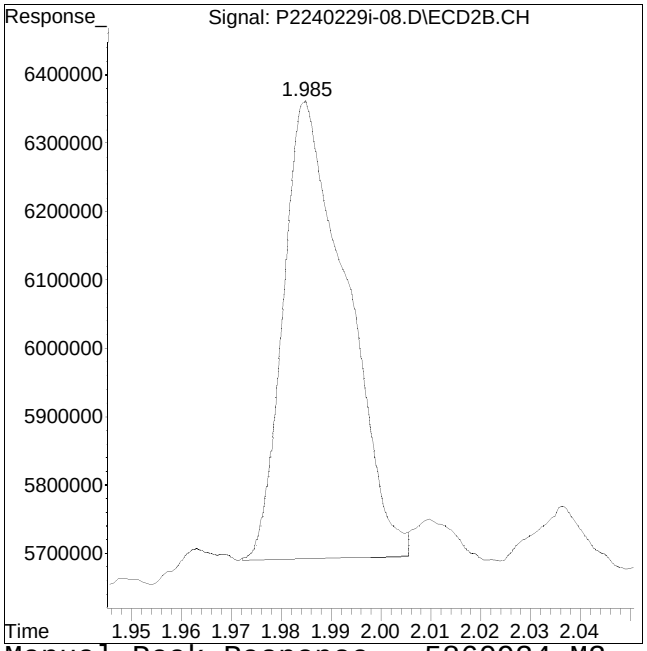
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240229I\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240229i-08.D Operator : pest2:rmp/kb
Date Inj'd : 2/29/2024 1:14 pm Instrument : Pest 2
Sample : il11660,42e,,pp 11447 Quant Date : 2/29/2024 2:43 pm

Compound #56: 1016-2 #2



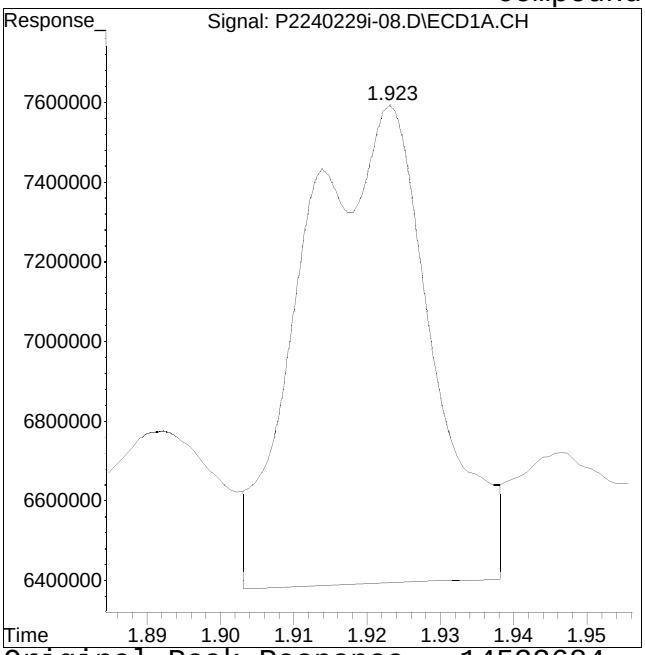


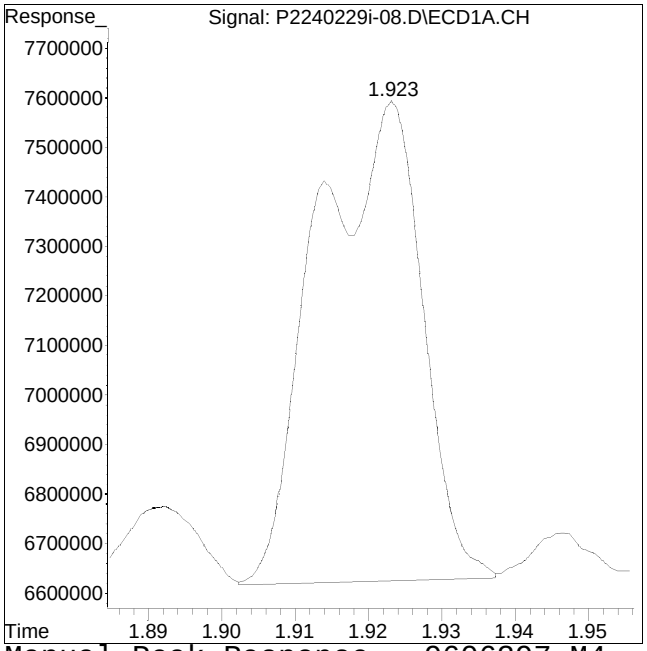
Original Peak Response = 15880510 Manual Peak Response = 5860934 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240229I\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240229i-08.D Operator : pest2:rmp/kb
Date Inj'd : 2/29/2024 1:14 pm Instrument : Pest 2
Sample : il11660,42e,,pp 11447 Quant Date : 2/29/2024 2:43 pm

Compound #6: 1016-3



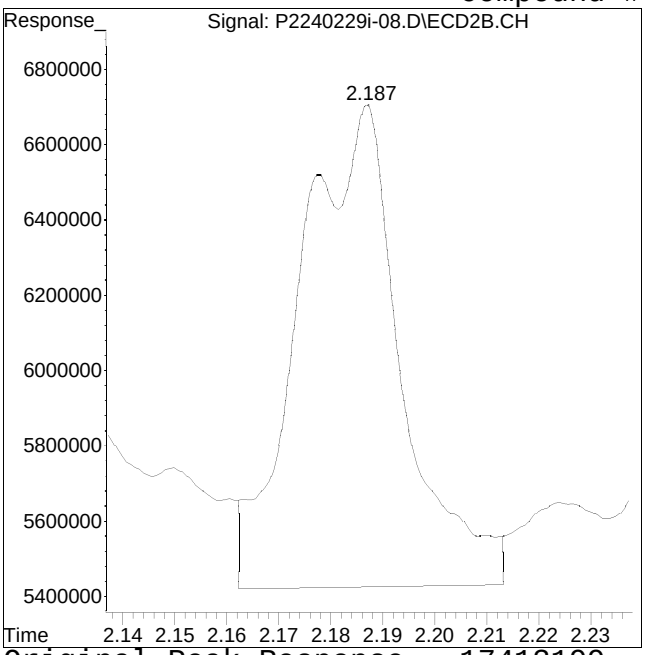


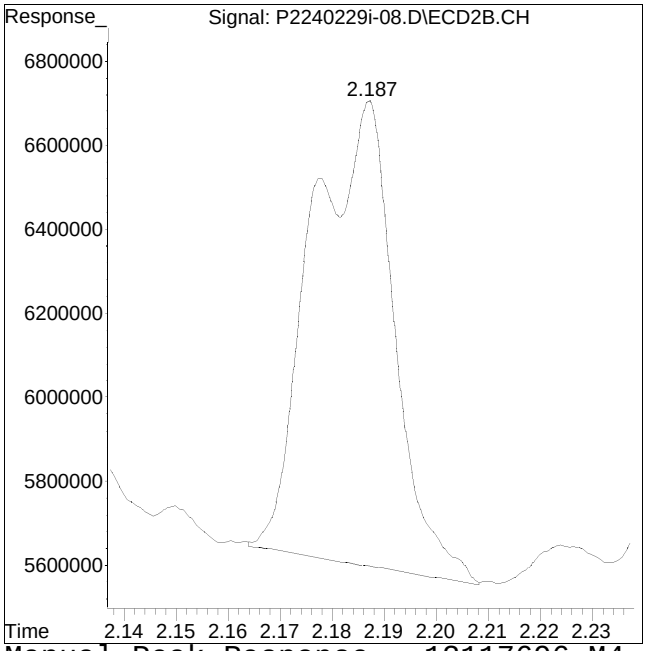
Original Peak Response = 14533684 Manual Peak Response = 9606397 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240229I\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240229i-08.D Operator : pest2:rmp/kb
Date Inj'd : 2/29/2024 1:14 pm Instrument : Pest 2
Sample : il11660,42e,,pp 11447 Quant Date : 2/29/2024 2:43 pm

Compound #57: 1016-3 #2



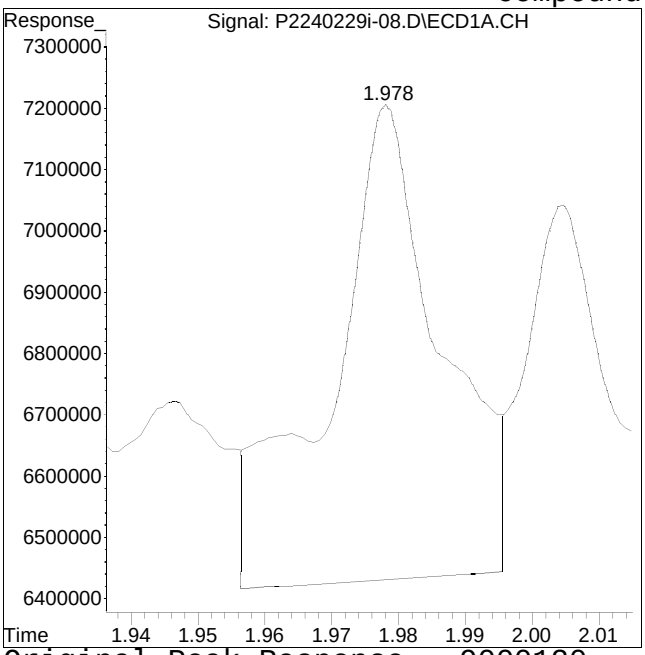


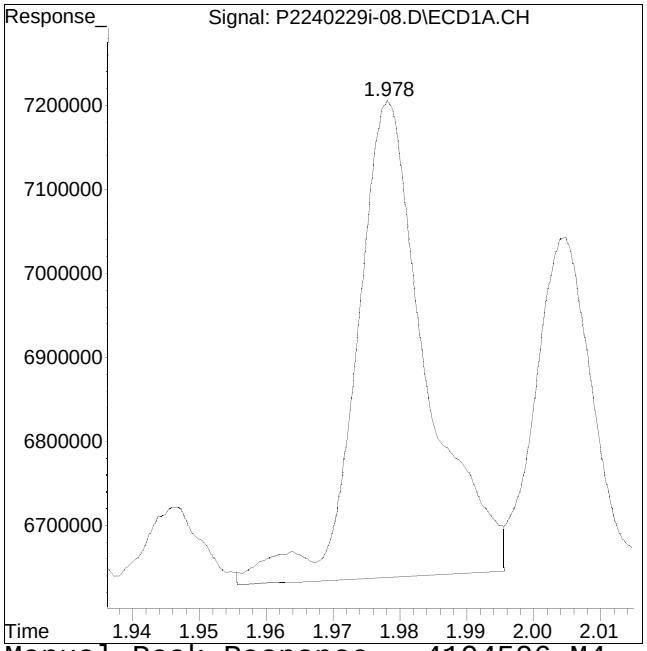
Original Peak Response = 17413199 Manual Peak Response = 12117696 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240229I\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240229i-08.D Operator : pest2:rmp/kb
Date Inj'd : 2/29/2024 1:14 pm Instrument : Pest 2
Sample : il11660,42e,,pp 11447 Quant Date : 2/29/2024 2:43 pm

Compound #7: 1016-4



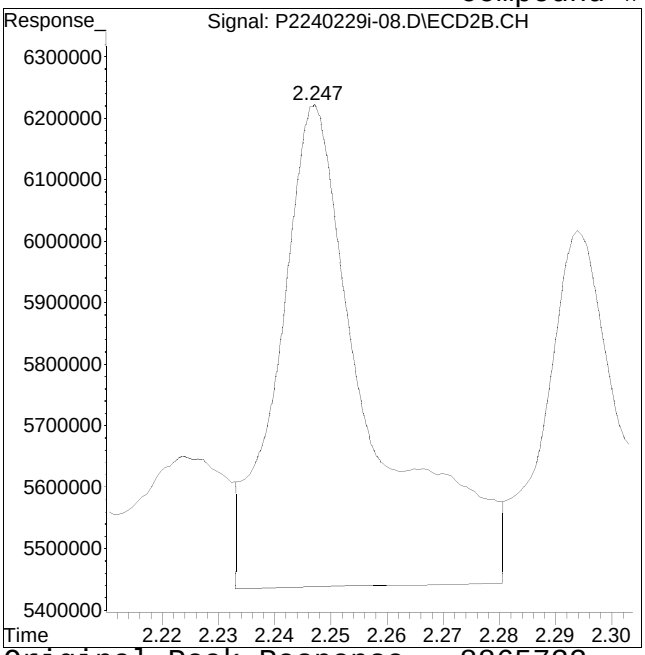


Original Peak Response = 9000120 Manual Peak Response = 4104506 M4
M4 = Poor automated baseline construction.

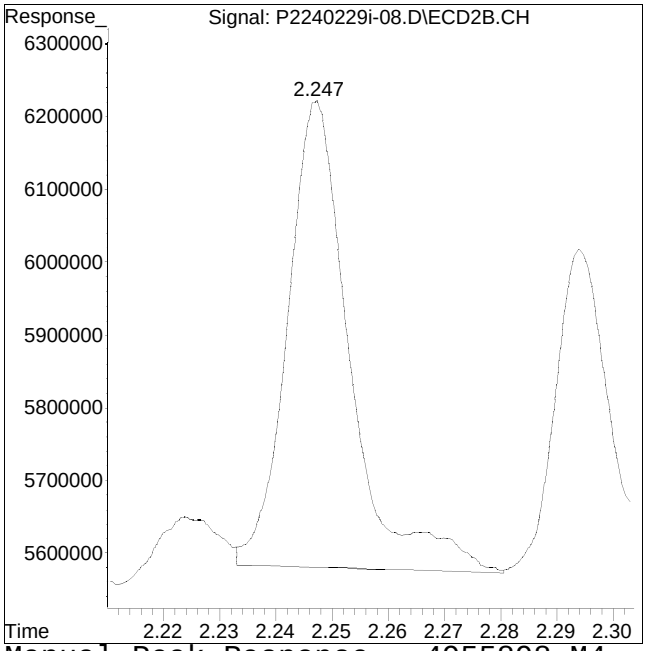
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240229I\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240229i-08.D Operator : pest2:rmp/kb
Date Inj'd : 2/29/2024 1:14 pm Instrument : Pest 2
Sample : il11660,42e,,pp 11447 Quant Date : 2/29/2024 2:43 pm

Compound #58: 1016-4 #2



Original Peak Response = 8865733



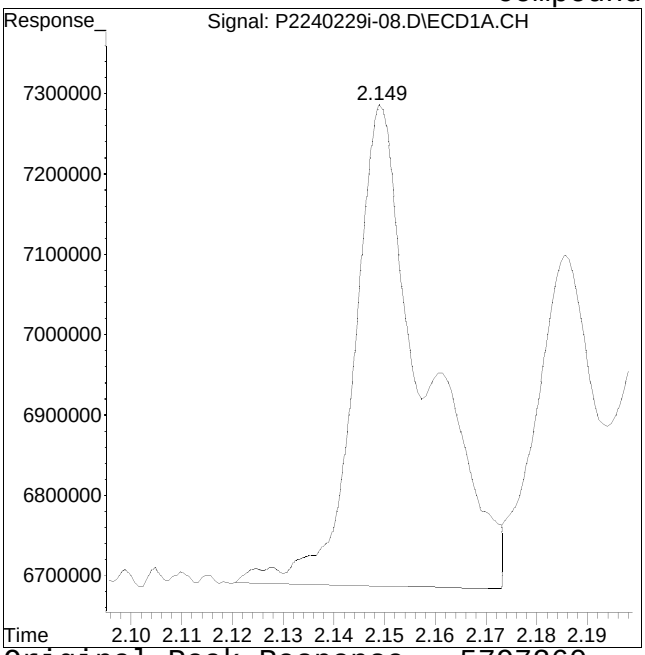
Manual Peak Response = 4955898 M4

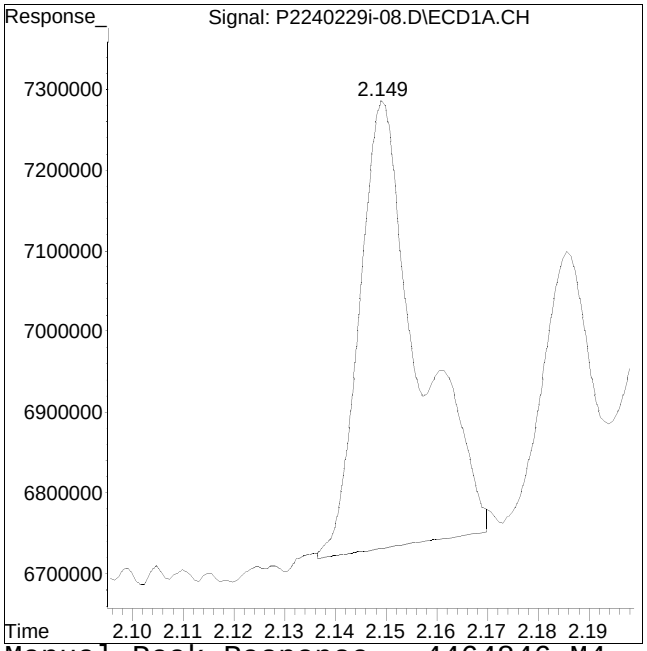
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240229I\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240229i-08.D Operator : pest2:rmp/kb
Date Inj'd : 2/29/2024 1:14 pm Instrument : Pest 2
Sample : il11660,42e,,pp 11447 Quant Date : 2/29/2024 2:43 pm

Compound #8: 1016-5



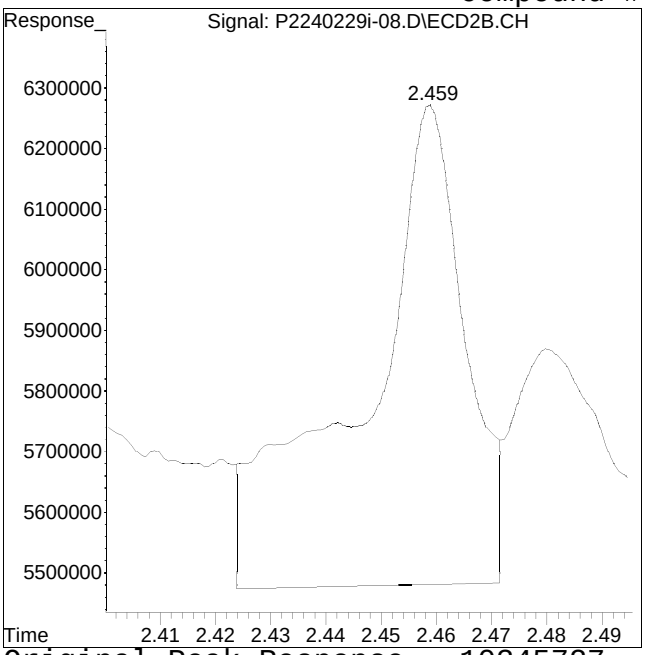


Original Peak Response = 5797260 Manual Peak Response = 4464846 M4
M4 = Poor automated baseline construction.

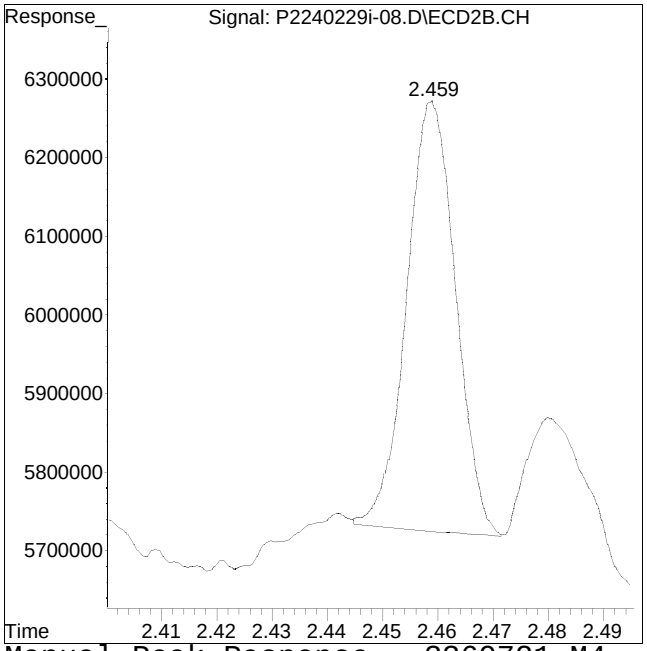
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240229I\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240229i-08.D Operator : pest2:rmp/kb
Date Inj'd : 2/29/2024 1:14 pm Instrument : Pest 2
Sample : il11660,42e,,pp 11447 Quant Date : 2/29/2024 2:43 pm

Compound #59: 1016-5 #2



Original Peak Response = 10345727



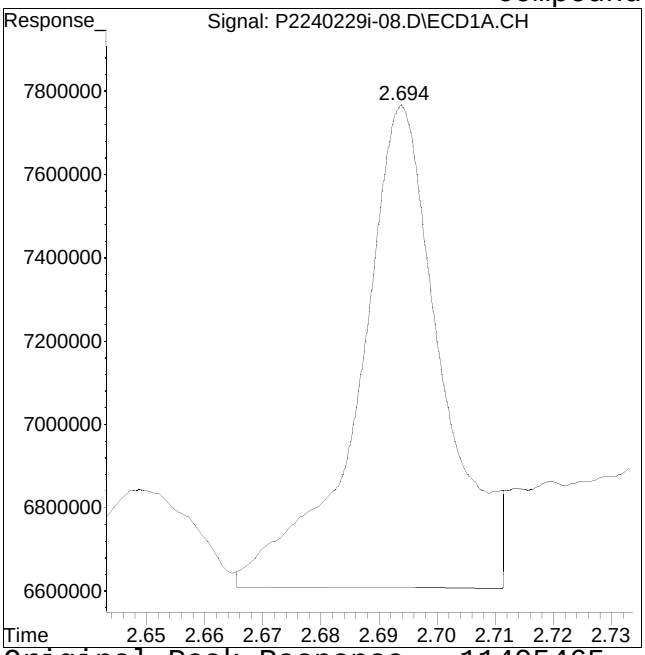
Manual Peak Response = 3369721 M4

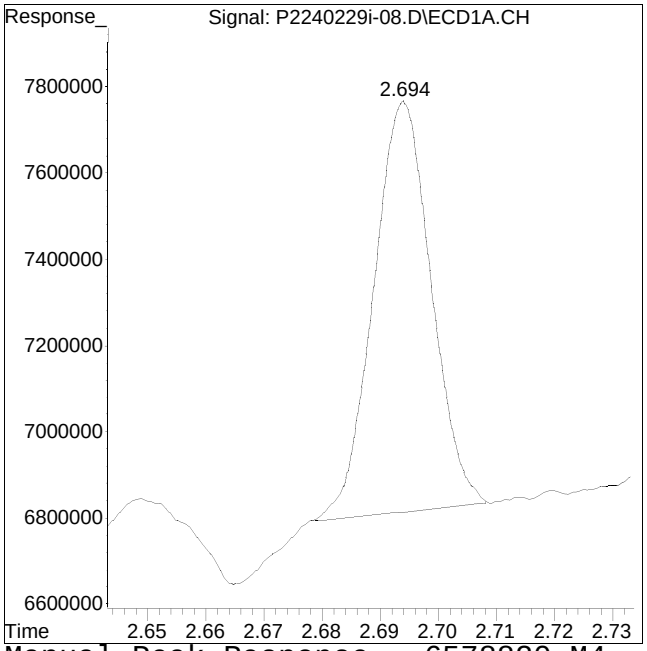
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240229I\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240229i-08.D Operator : pest2:rmp/kb
Date Inj'd : 2/29/2024 1:14 pm Instrument : Pest 2
Sample : il11660,42e,,pp 11447 Quant Date : 2/29/2024 2:43 pm

Compound #9: 1260-1



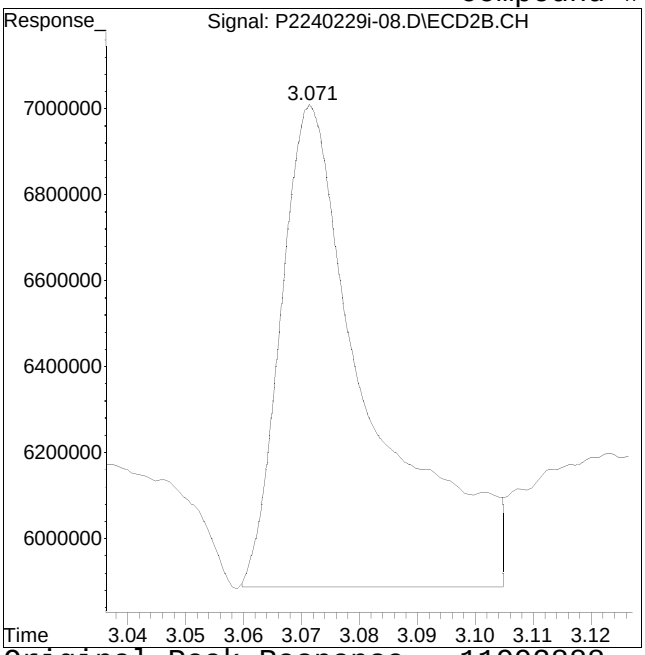


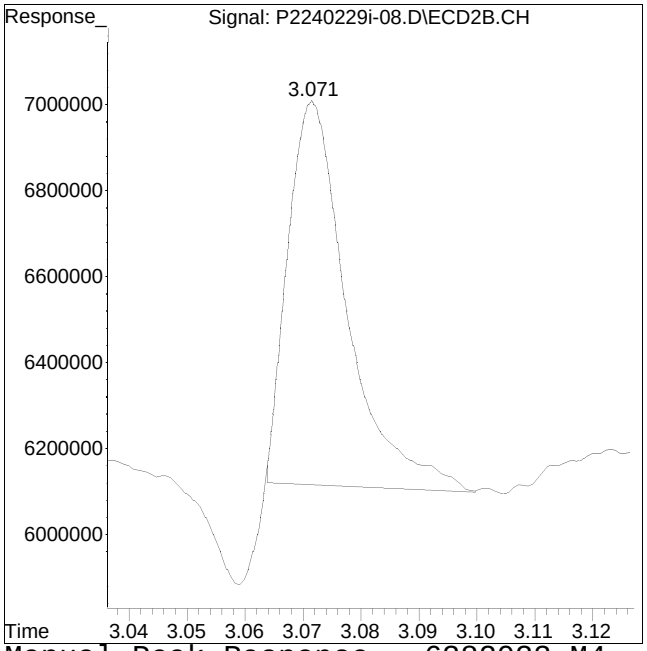
Original Peak Response = 11405465 Manual Peak Response = 6578820 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240229I\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240229i-08.D Operator : pest2:rmp/kb
Date Inj'd : 2/29/2024 1:14 pm Instrument : Pest 2
Sample : il11660,42e,,pp 11447 Quant Date : 2/29/2024 2:43 pm

Compound #60: 1260-1 #2



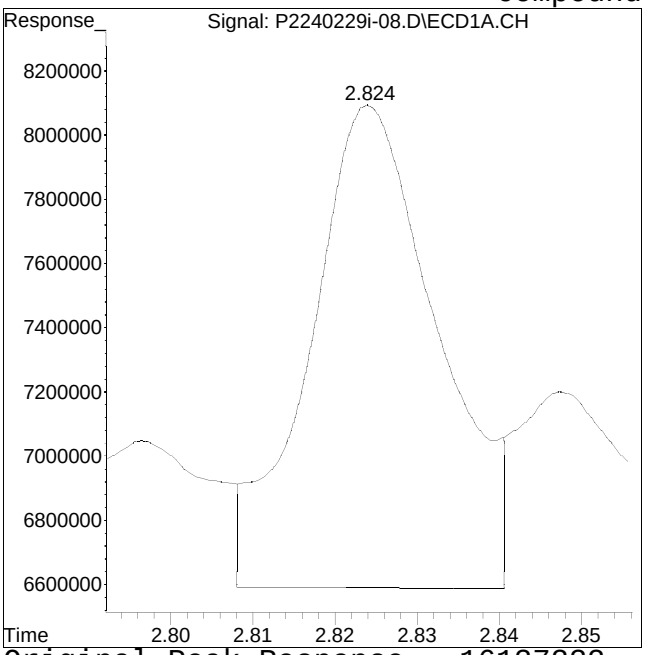


Original Peak Response = 11992888 Manual Peak Response = 6382033 M4
M4 = Poor automated baseline construction.

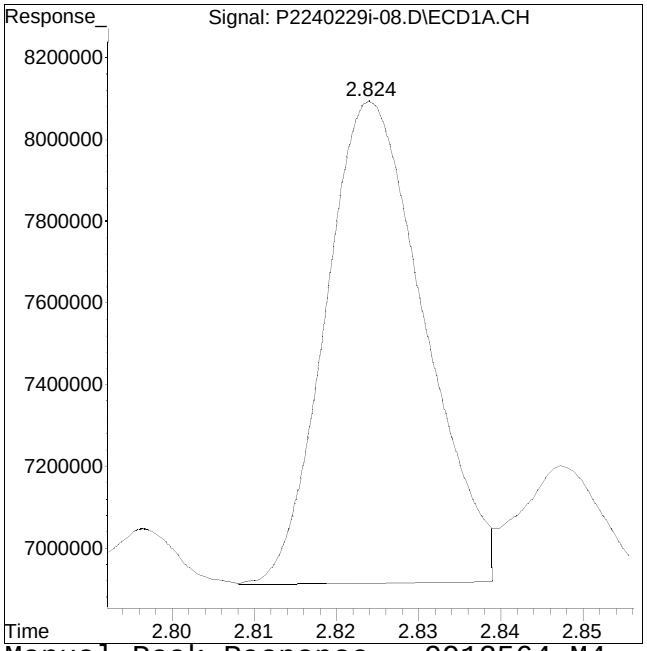
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240229I\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240229i-08.D Operator : pest2:rmp/kb
Date Inj'd : 2/29/2024 1:14 pm Instrument : Pest 2
Sample : il11660,42e,,pp 11447 Quant Date : 2/29/2024 2:43 pm

Compound #10: 1260-2



Original Peak Response = 16137232



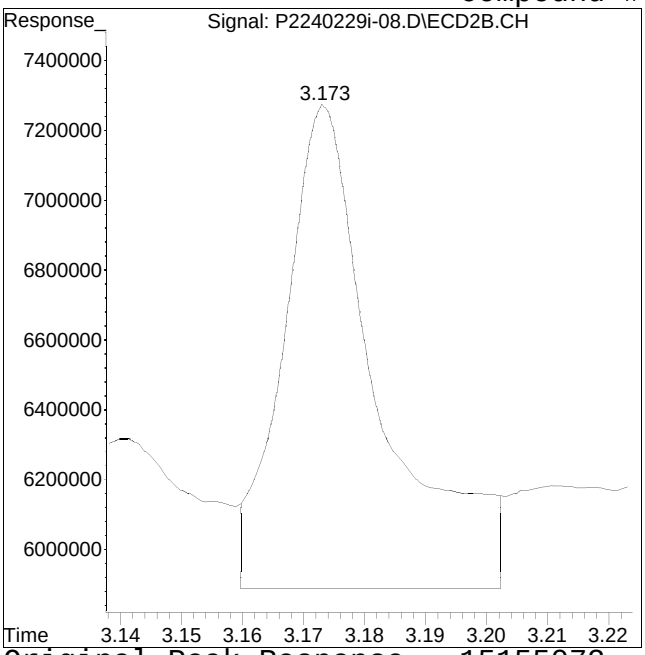
Manual Peak Response = 9912564 M4

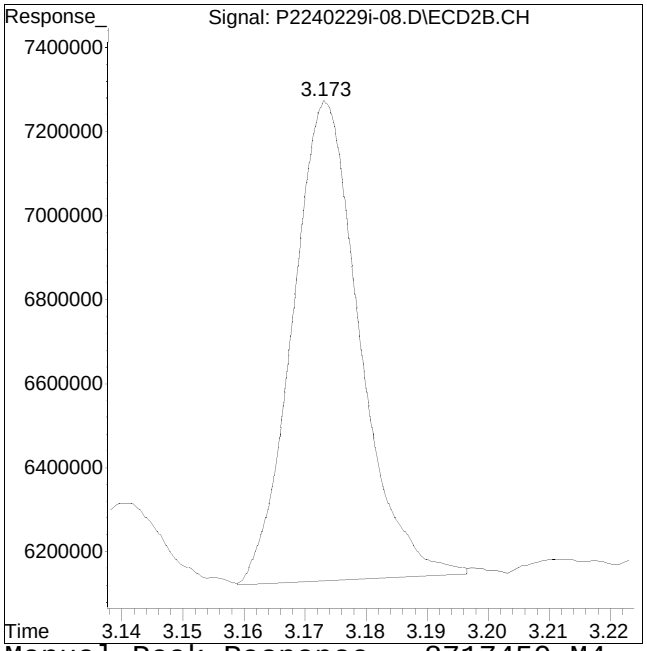
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240229I\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240229i-08.D Operator : pest2:rmp/kb
Date Inj'd : 2/29/2024 1:14 pm Instrument : Pest 2
Sample : il11660,42e,,pp 11447 Quant Date : 2/29/2024 2:43 pm

Compound #61: 1260-2 #2



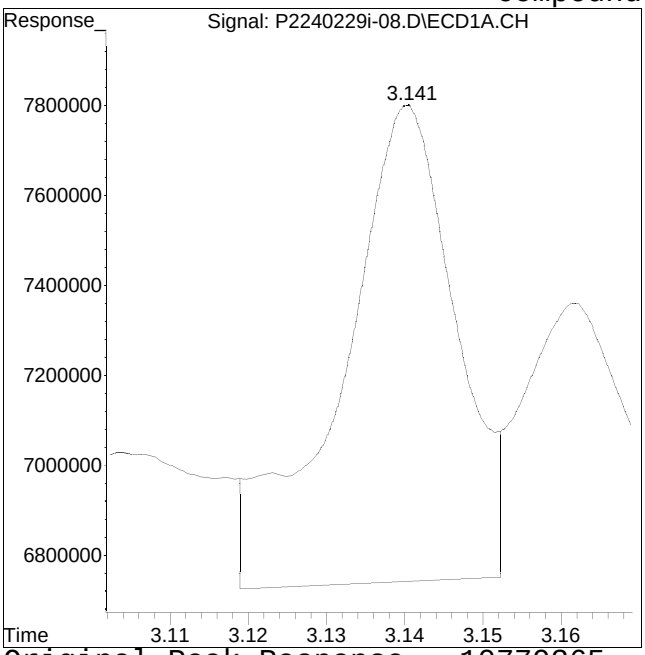


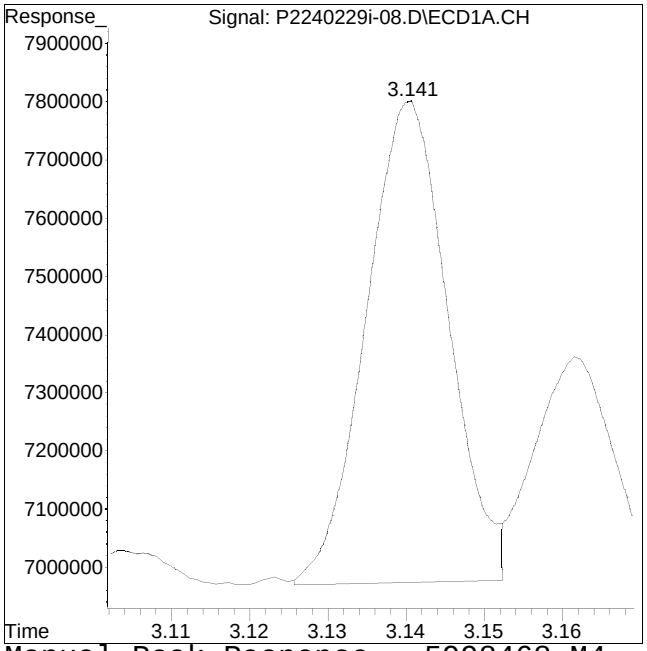
Original Peak Response = 15155072 Manual Peak Response = 8717450 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240229I\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240229i-08.D Operator : pest2:rmp/kb
Date Inj'd : 2/29/2024 1:14 pm Instrument : Pest 2
Sample : il11660,42e,,pp 11447 Quant Date : 2/29/2024 2:43 pm

Compound #11: 1260-3



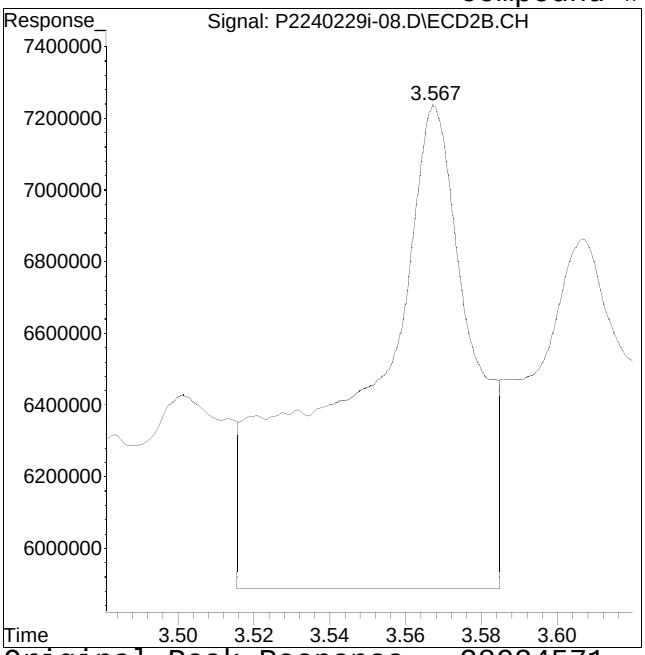


Original Peak Response = 10779365 Manual Peak Response = 5998468 M4
M4 = Poor automated baseline construction.

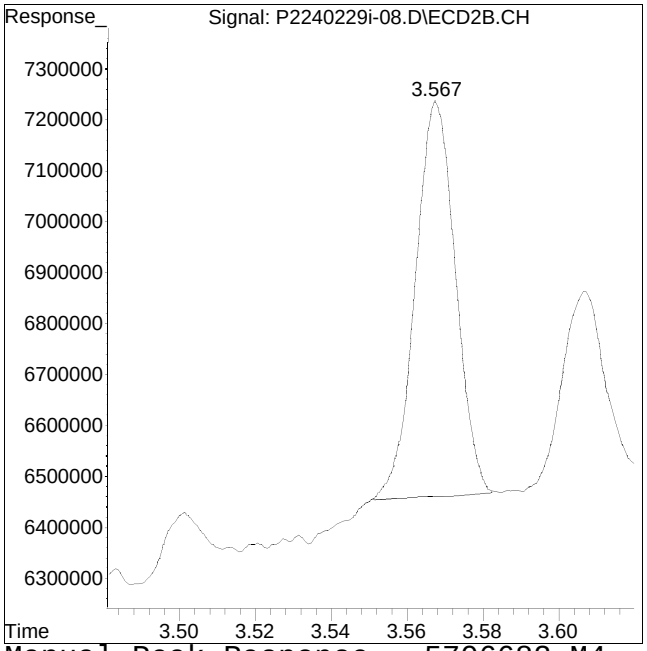
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240229I\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240229i-08.D Operator : pest2:rmp/kb
Date Inj'd : 2/29/2024 1:14 pm Instrument : Pest 2
Sample : il11660,42e,,pp 11447 Quant Date : 2/29/2024 2:43 pm

Compound #62: 1260-3 #2



Original Peak Response = 28024571



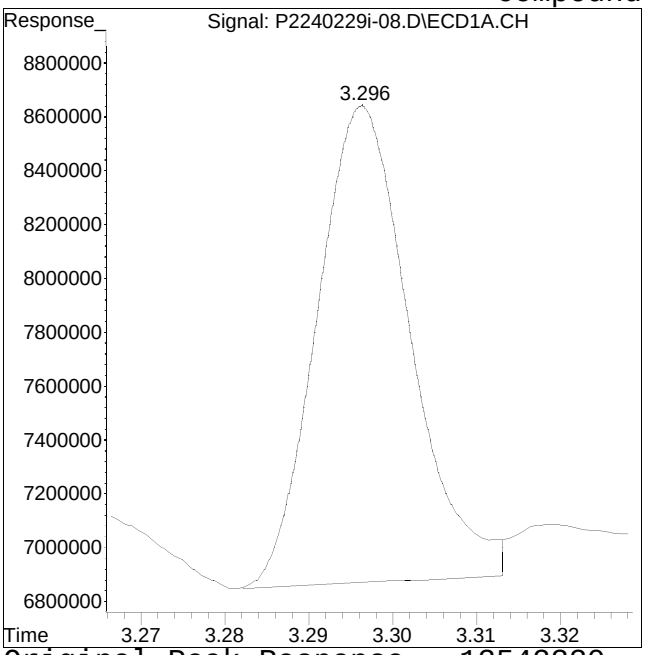
Manual Peak Response = 5706682 M4

M4 = Poor automated baseline construction.

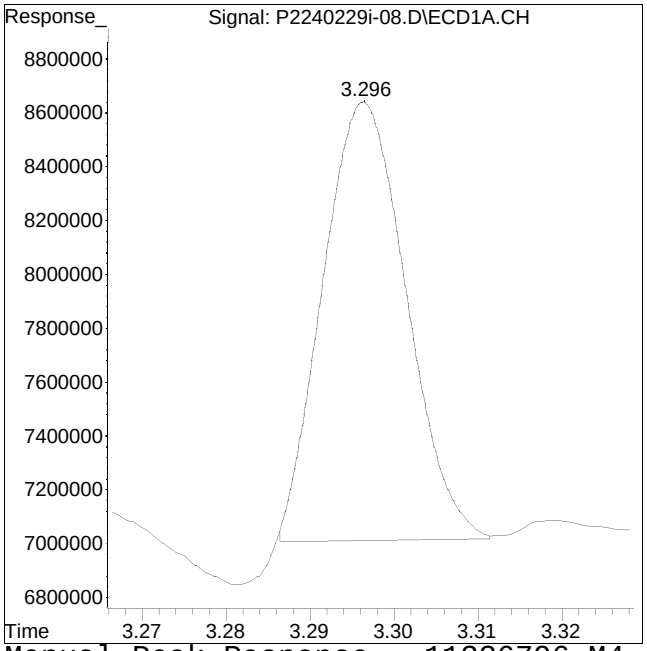
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240229I\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240229i-08.D Operator : pest2:rmp/kb
Date Inj'd : 2/29/2024 1:14 pm Instrument : Pest 2
Sample : il11660,42e,,pp 11447 Quant Date : 2/29/2024 2:43 pm

Compound #12: 1260-4



Original Peak Response = 13542330



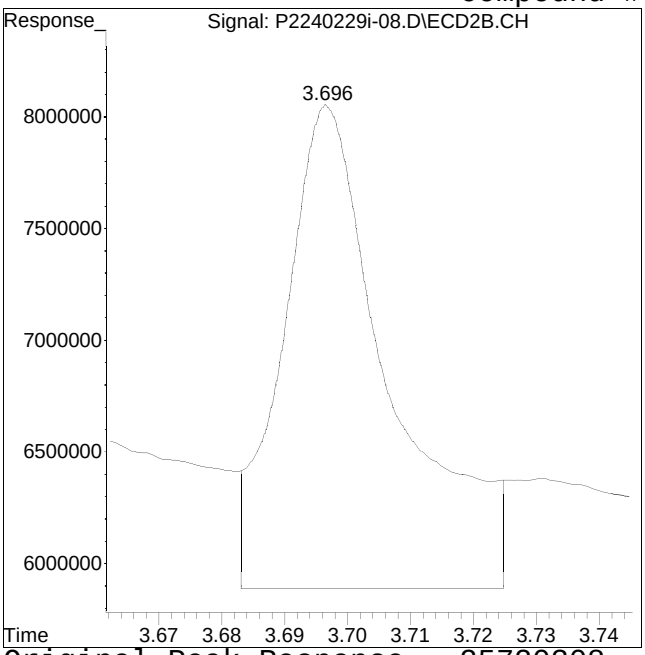
Manual Peak Response = 11236796 M4

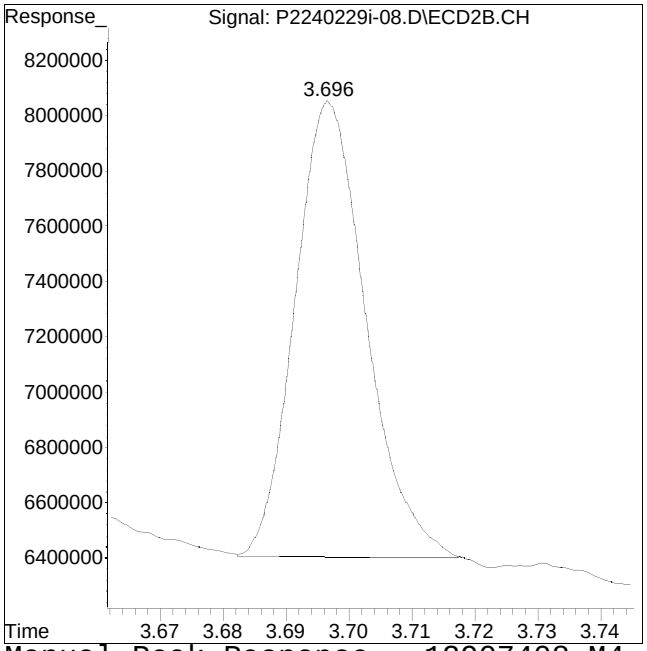
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240229I\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240229i-08.D Operator : pest2:rmp/kb
Date Inj'd : 2/29/2024 1:14 pm Instrument : Pest 2
Sample : il11660,42e,,pp 11447 Quant Date : 2/29/2024 2:43 pm

Compound #63: 1260-4 #2



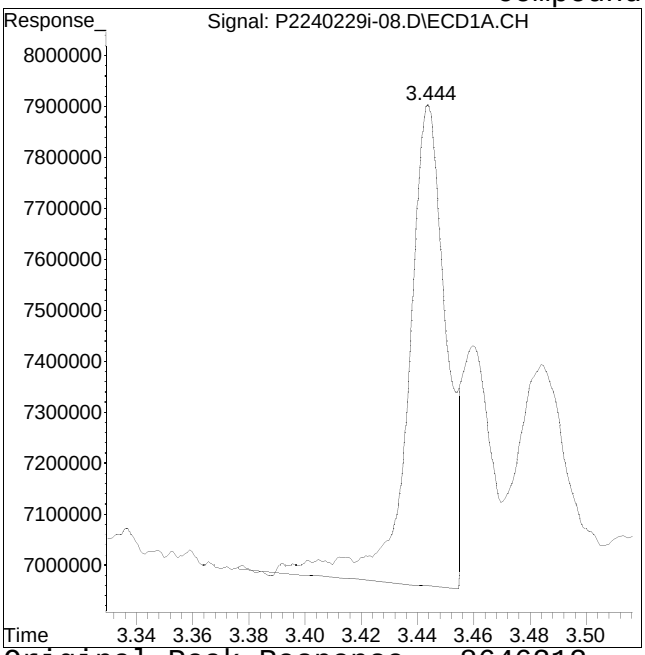


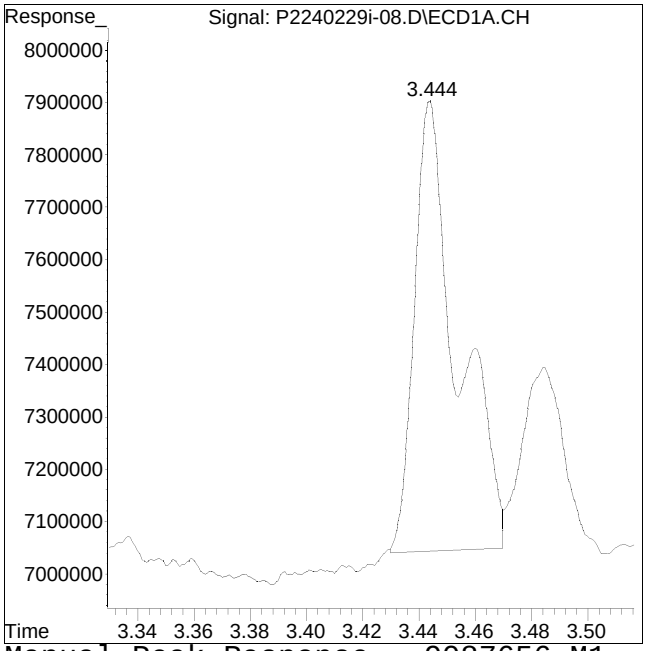
Original Peak Response = 25720308 Manual Peak Response = 12907408 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240229I\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240229i-08.D Operator : pest2:rmp/kb
Date Inj'd : 2/29/2024 1:14 pm Instrument : Pest 2
Sample : il11660,42e,,pp 11447 Quant Date : 2/29/2024 2:43 pm

Compound #13: 1260-5





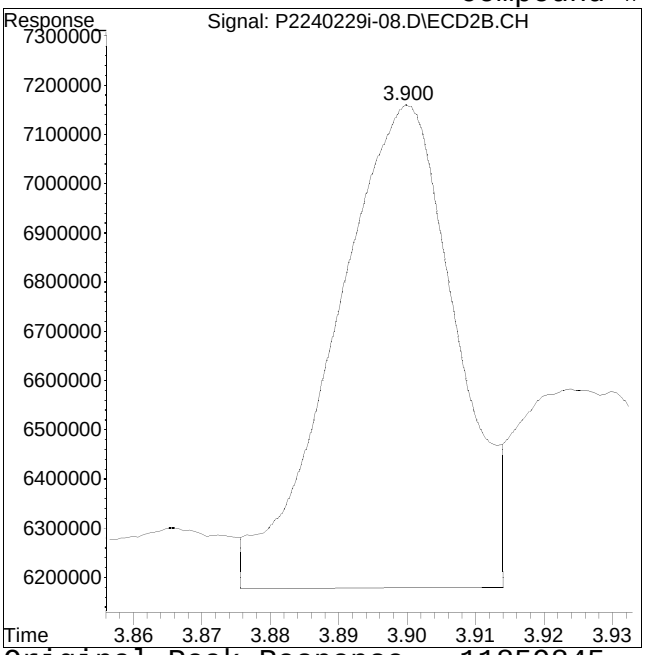
Original Peak Response = 8646212 Manual Peak Response = 9087656 M1

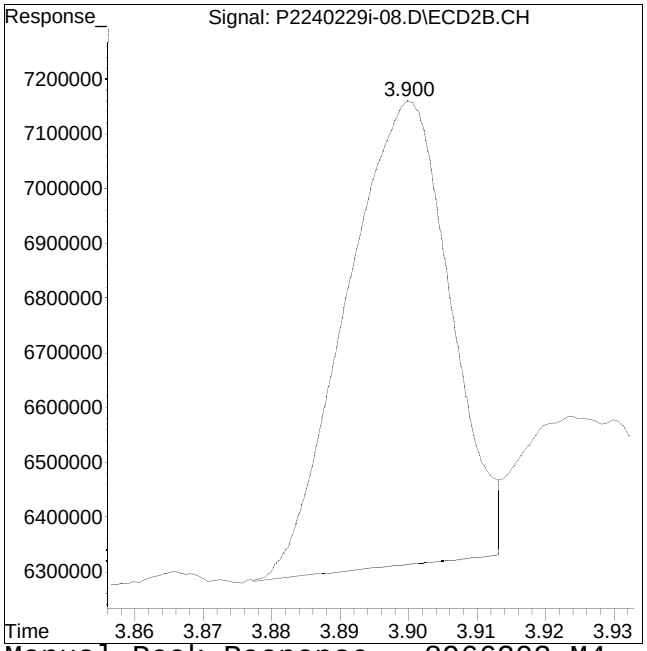
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240229I\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240229i-08.D Operator : pest2:rmp/kb
Date Inj'd : 2/29/2024 1:14 pm Instrument : Pest 2
Sample : il11660,42e,,pp 11447 Quant Date : 2/29/2024 2:43 pm

Compound #64: 1260-5 #2





Original Peak Response = 11859845 Manual Peak Response = 8966203 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240229I\
Data File : P2240229i-09.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Feb 2024 1:24 pm
Operator : pest2:rmp/kb
Sample : il21660,42e,,pp 11447
Misc : WG1891083,, (Sig #1); ,,ical (Sig #2)
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Feb 29 14:53:38 2024
Quant Method : I:\PCB\Pest2\2024\240229I\P2_pcb_02_29_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Thu Feb 29 14:44:01 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	1.166	1.234	227.2E6	285.6E6	25.000M4	25.000M4
14) i	2154_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
23) i	4268_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
34) i	1248_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
40) i	3262_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.453	1.611	38530505	47144770	2.216M4	2.748
	Spiked Amount	20.000	Range 30 - 150		Recovery =	11.08%#	13.74%#
3) s	Decachlorobi	4.028	4.550	54990420	50472828	6.149M4	6.007
	Spiked Amount	20.000	Range 30 - 150		Recovery =	30.75%	30.04%
	Target Compounds						
4) l1	1016-1	1.592	1.813	10664831	12543655	18.036M4	24.822M4
5) l1	1016-2	1.734	1.985	20059379	27817678	27.604M3	26.414M4
6) l1	1016-3	1.924	2.187	46552590	54285677	39.387M4	39.308M4
7) l1	1016-4	1.979	2.247	21804893	21827549	34.411M4	34.131M4
8) l1	1016-5	2.150	2.460	21072651	16788216	43.538M4	24.886M4
	Sum 1016-1			120.2E6	133.3E6	162.976	149.561
	Average 1016-1					32.595	29.912
9) l2	1260-1	2.694	3.072	31396820	26553780	36.464M4	30.230M4
10) l2	1260-2	2.824	3.173	45640056	36803765	36.863M4	33.567M4
11) l2	1260-3	3.140	3.568	28068235	31251422	34.582M4	18.665M4

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240229I\
Data File : P2240229i-09.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Feb 2024 1:24 pm
Operator : pest2:rmp/kb
Sample : il21660,42e,,pp 11447
Misc : WG1891083,, (Sig #1); ,,ical (Sig #2)
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Feb 29 14:53:38 2024
Quant Method : I:\PCB\Pest2\2024\240229I\P2_pcb_02_29_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Thu Feb 29 14:44:01 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
12) l2	1260-4	3.296	3.697	59645334	59365090	47.497M4	32.341M4
13) l2	1260-5	3.444	3.900	43829966	42497980	51.899	43.849M4
Sum	1260-1			208.6E6	196.5E6	NoCal	NoCal D
Average	1260-1					41.461	31.730
15) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d
16) l3	1221-3	0.000	0.000	0	0	N.D. d	N.D. d
17) l3	1221-4	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1221-2			0	0	N.D.	N.D.
Average	1221-2					0.000	0.000
18) l4	1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4	1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4	1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4	1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4	1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254-1			0	0	N.D.	N.D.
Average	1254-1					0.000	0.000
24) l6	1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6	1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6	1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6	1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6	1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242-1			0	0	N.D.	N.D.
Average	1242-1					0.000	0.000
29) l9	1268-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l9	1268-2	0.000	0.000	0	0	N.D. d	N.D. d
31) l9	1268-3	0.000	0.000	0	0	N.D. d	N.D. d
32) l9	1268-4	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PCB\Pest2\2024\240229I\
Data File : P2240229i-09.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Feb 2024 1:24 pm
Operator : pest2:rmp/kb
Sample : il21660,42e,,pp 11447
Misc : WG1891083,, (Sig #1); ,,ical (Sig #2)
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Feb 29 14:53:38 2024
Quant Method : I:\PCB\Pest2\2024\240229I\P2_pcb_02_29_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Thu Feb 29 14:44:01 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
33) l9	1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1268-1			0	0	N.D.	N.D.
Average	1268-1					0.000	0.000
35) l7	1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7	1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7	1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7	1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7	1248-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1248-1			0	0	N.D.	N.D.
Average	1248-1					0.000	0.000
41) l5	1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5	1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5	1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5	1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5	1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1232-1			0	0	N.D.	N.D.
Average	1232-1					0.000	0.000
46) l8	1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8	1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8	1262-3	0.000	0.000	0	0	N.D. d	N.D. d
49) l8	1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50) l8	1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240229I\
Data File : P2240229i-09.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Feb 2024 1:24 pm
Operator : pest2:rmp/kb
Sample : il21660,42e,,pp 11447
Misc : WG1891083,, (Sig #1); ,,ical (Sig #2)
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Feb 29 14:53:38 2024
Quant Method : I:\PCB\Pest2\2024\240229I\P2_pcb_02_29_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Thu Feb 29 14:44:01 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l

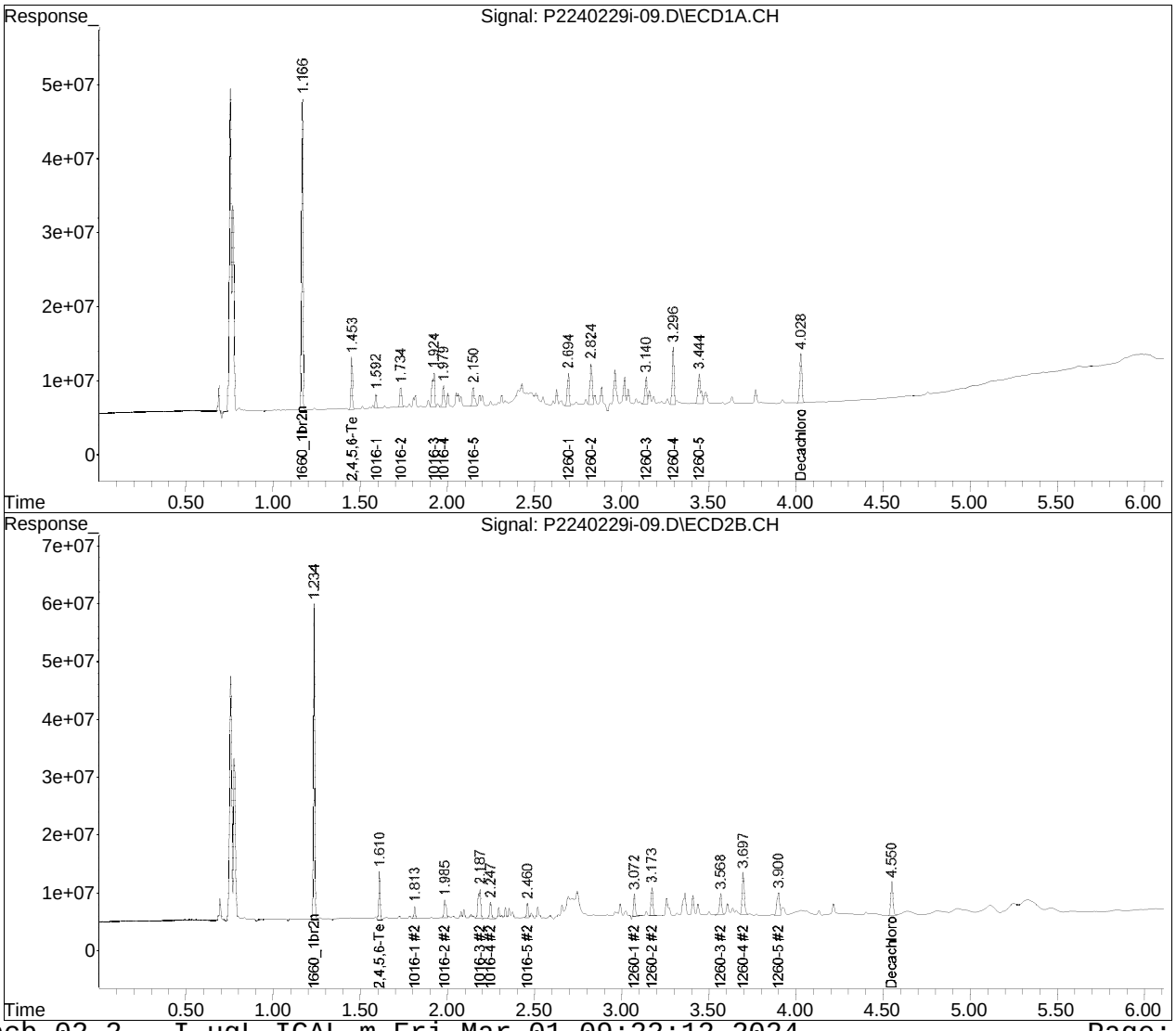
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PCB\Pest2\2024\240229I\
Data File : P2240229i-09.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Feb 2024 1:24 pm
Operator : pest2:rmp/kb
Sample : il21660,42e,,pp 11447
Misc : WG1891083,, (Sig #1); ,,ical (Sig #2)
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Feb 29 14:53:38 2024
Quant Method : I:\PCB\Pest2\2024\240229I\P2_pcb_02_29_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Thu Feb 29 14:44:01 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

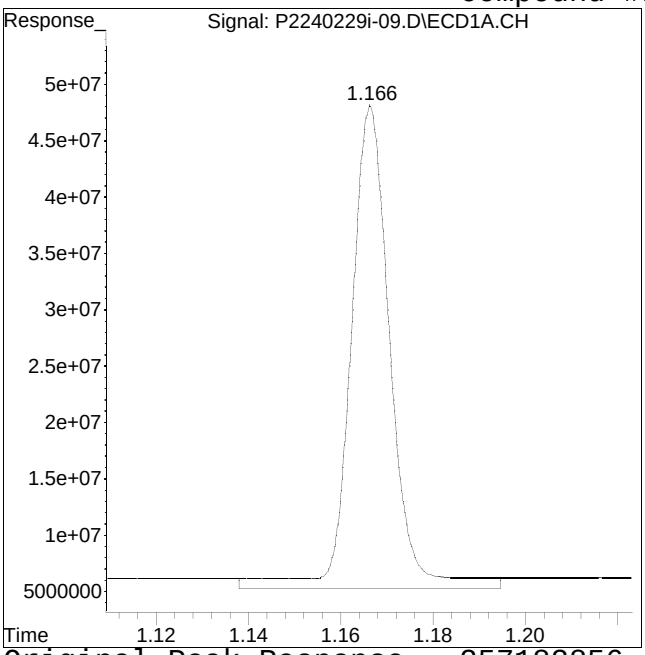
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

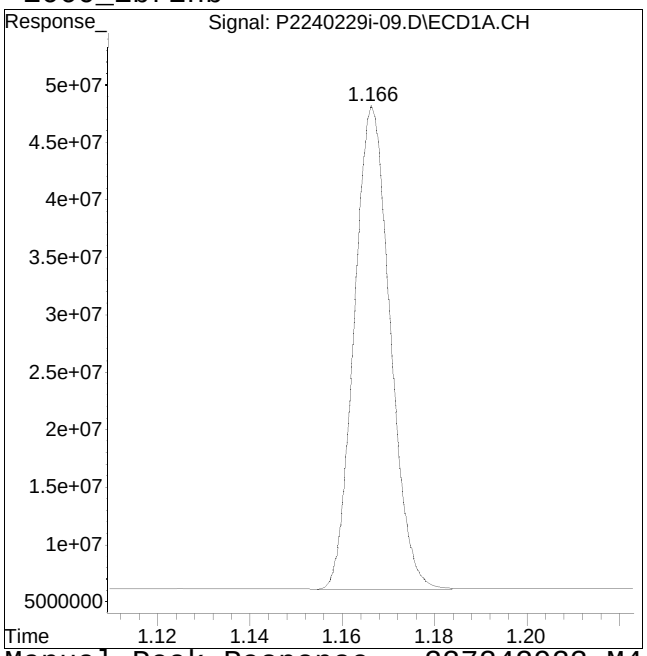


Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240229I\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240229i-09.D Operator : pest2:rmp/kb
Date Inj'd : 2/29/2024 1:24 pm Instrument : Pest 2
Sample : il21660,42e,,pp 11447 Quant Date : 2/29/2024 2:44 pm

Compound #1: 1660_1br2nb



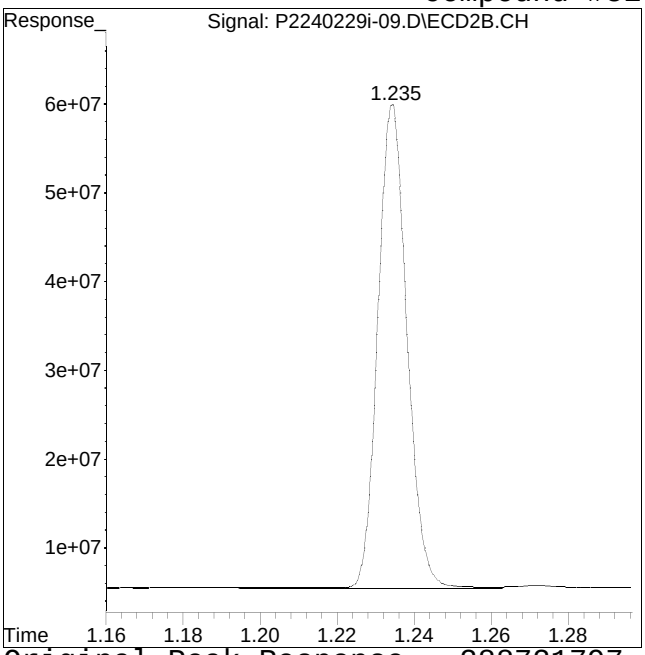


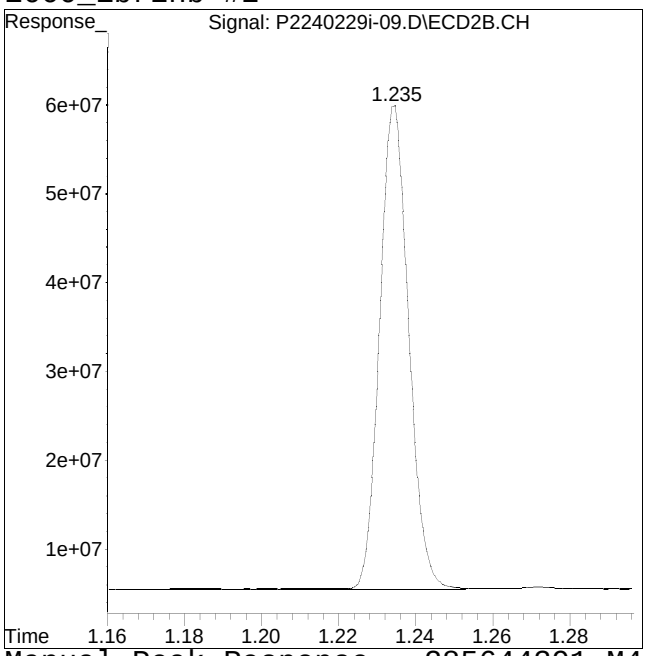
Original Peak Response = 257182856 Manual Peak Response = 227242923 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240229I\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240229i-09.D Operator : pest2:rmp/kb
Date Inj'd : 2/29/2024 1:24 pm Instrument : Pest 2
Sample : il21660,42e,,pp 11447 Quant Date : 2/29/2024 2:44 pm

Compound #52: 1660_1br2nb #2



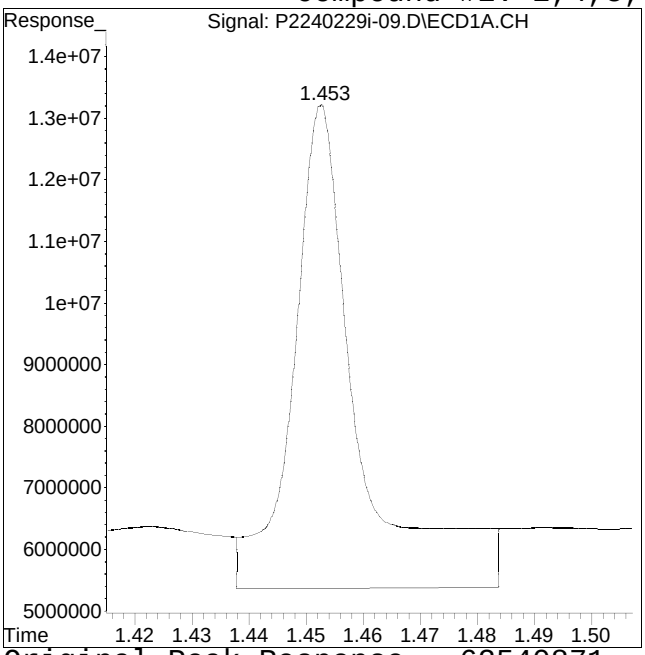


Original Peak Response = 288721797 Manual Peak Response = 285644391 M4
M4 = Poor automated baseline construction.

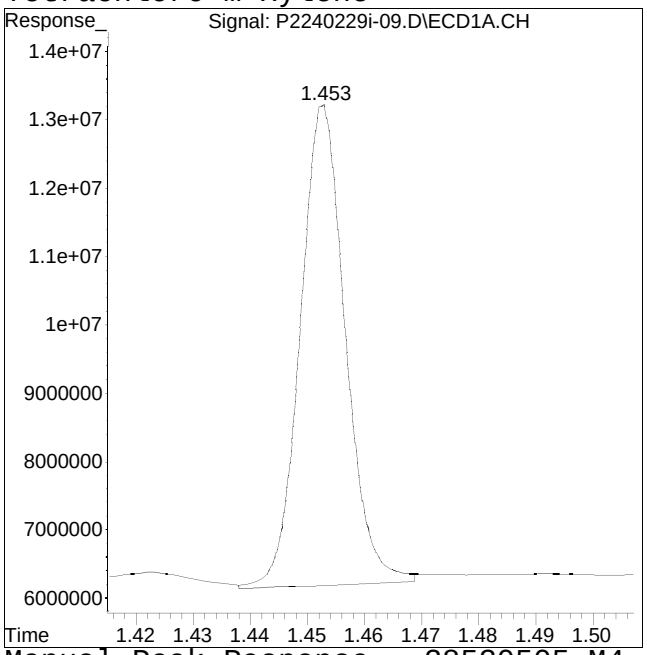
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240229I\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240229i-09.D Operator : pest2:rmp/kb
Date Inj'd : 2/29/2024 1:24 pm Instrument : Pest 2
Sample : il21660,42e,,pp 11447 Quant Date : 2/29/2024 2:44 pm

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



Original Peak Response = 62540871



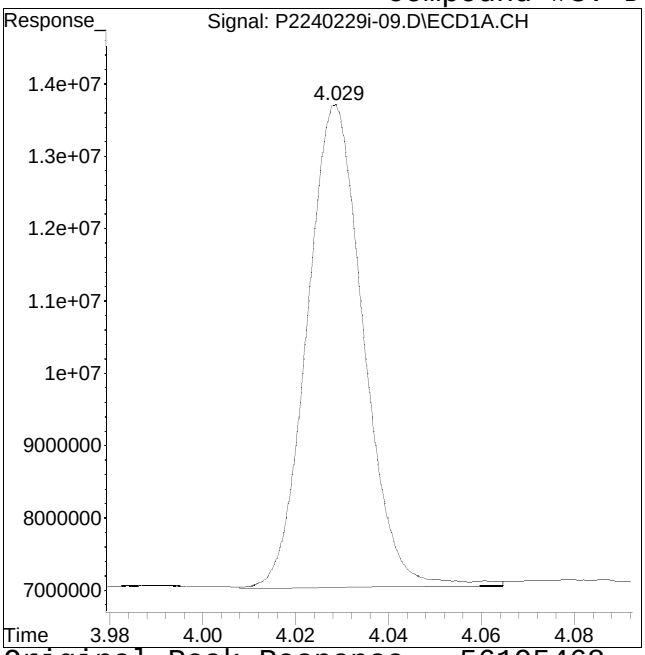
Manual Peak Response = 38530505 M4

M4 = Poor automated baseline construction.

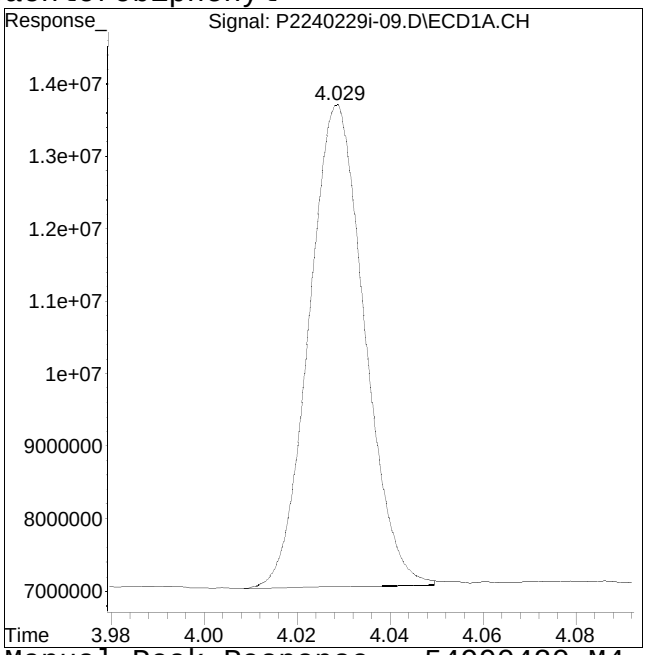
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240229I\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240229i-09.D Operator : pest2:rmp/kb
Date Inj'd : 2/29/2024 1:24 pm Instrument : Pest 2
Sample : il21660,42e,,pp 11447 Quant Date : 2/29/2024 2:44 pm

Compound #3: Decachlorobiphenyl



Original Peak Response = 56195468



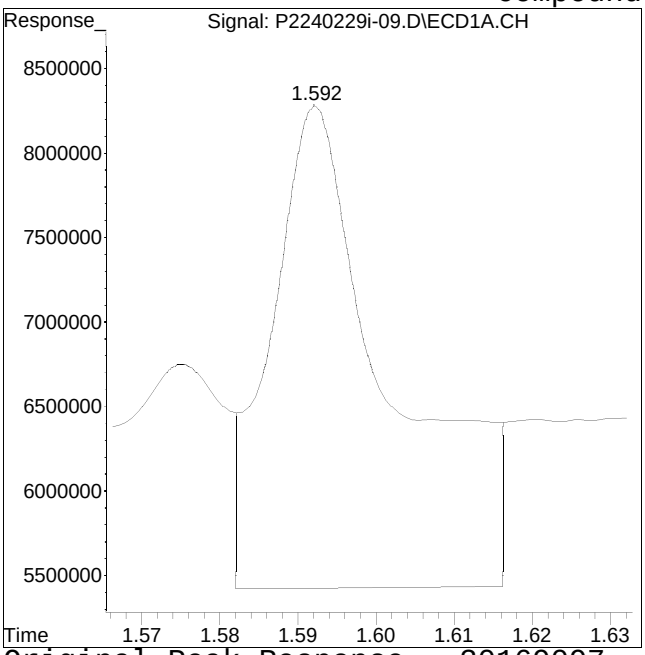
Manual Peak Response = 54990420 M4

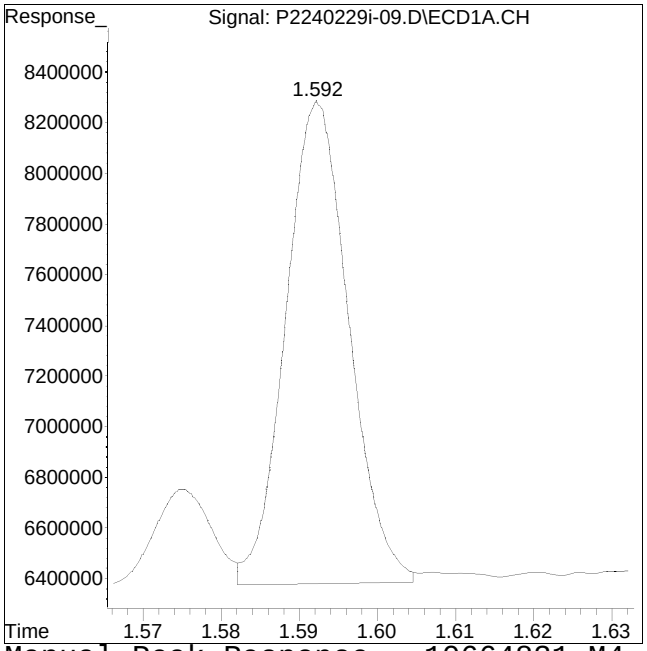
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240229I\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240229i-09.D Operator : pest2:rmp/kb
Date Inj'd : 2/29/2024 1:24 pm Instrument : Pest 2
Sample : il21660,42e,,pp 11447 Quant Date : 2/29/2024 2:44 pm

Compound #4: 1016-1



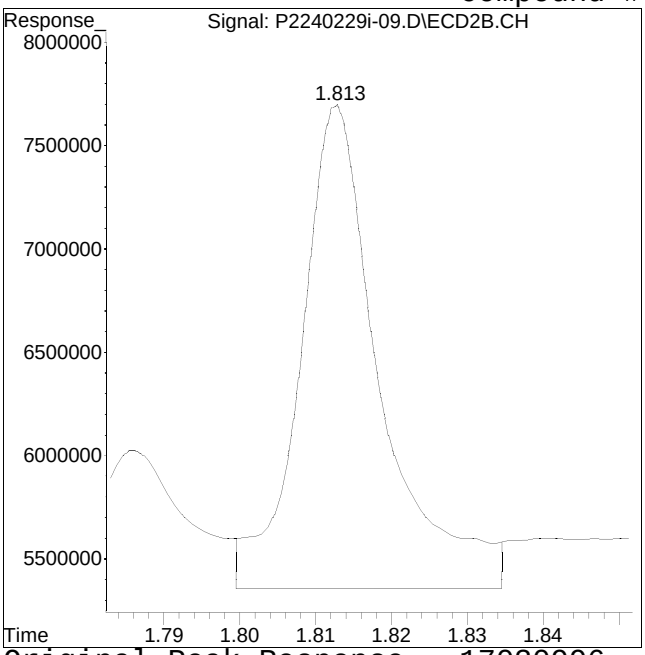


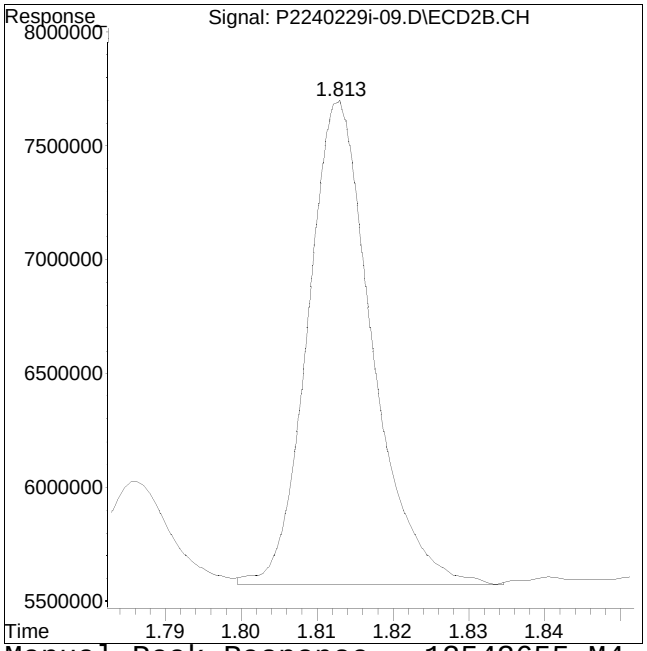
Original Peak Response = 30169097 Manual Peak Response = 10664831 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240229I\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240229i-09.D Operator : pest2:rmp/kb
Date Inj'd : 2/29/2024 1:24 pm Instrument : Pest 2
Sample : il21660,42e,,pp 11447 Quant Date : 2/29/2024 2:44 pm

Compound #55: 1016-1 #2



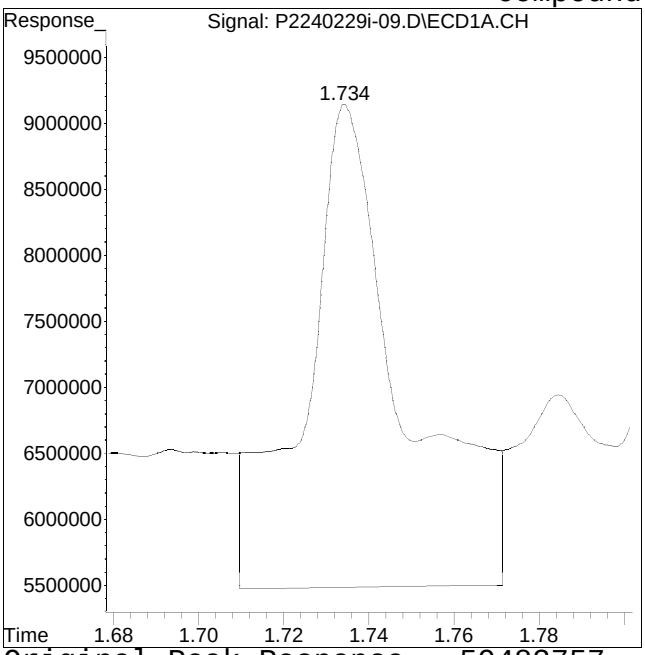


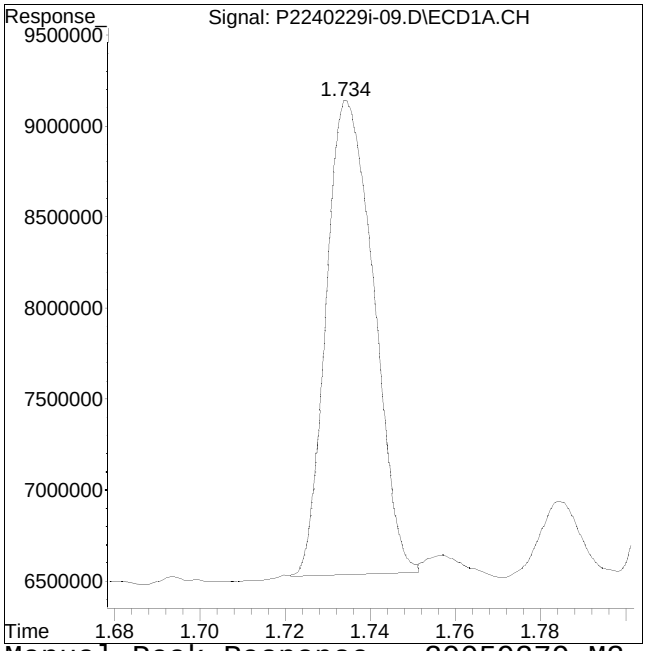
Original Peak Response = 17030996 Manual Peak Response = 12543655 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240229I\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240229i-09.D Operator : pest2:rmp/kb
Date Inj'd : 2/29/2024 1:24 pm Instrument : Pest 2
Sample : il21660,42e,,pp 11447 Quant Date : 2/29/2024 2:44 pm

Compound #5: 1016-2



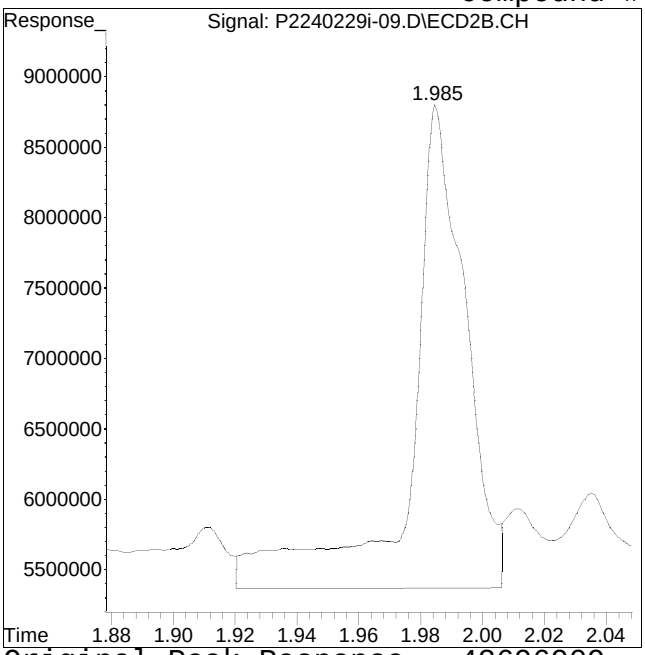


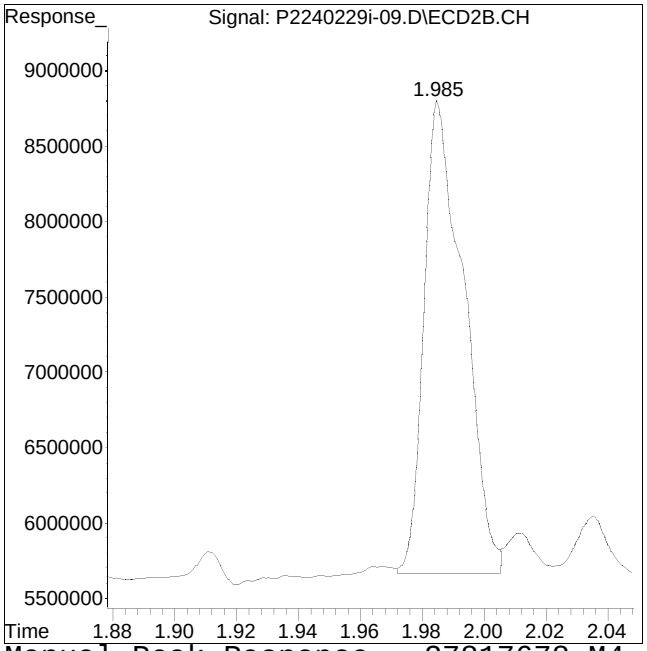
Original Peak Response = 59483757 Manual Peak Response = 20059379 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240229I\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240229i-09.D Operator : pest2:rmp/kb
Date Inj'd : 2/29/2024 1:24 pm Instrument : Pest 2
Sample : il21660,42e,,pp 11447 Quant Date : 2/29/2024 2:44 pm

Compound #56: 1016-2 #2



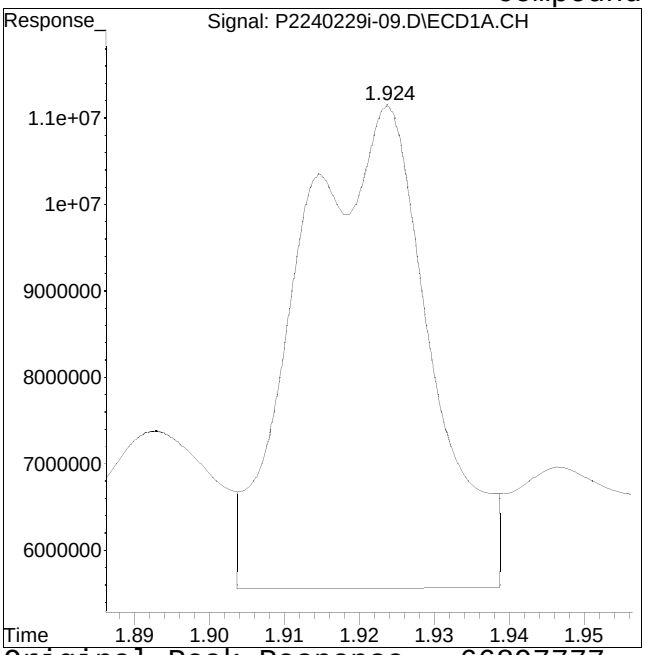


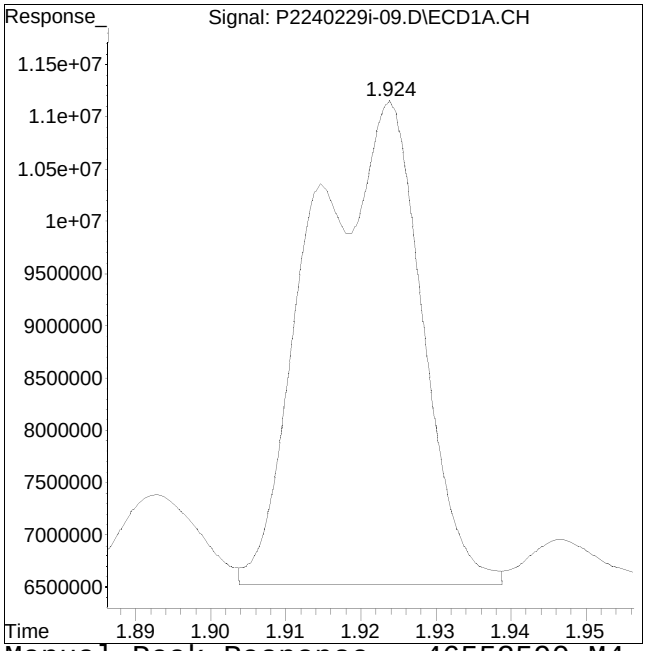
Original Peak Response = 42696909 Manual Peak Response = 27817678 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240229I\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240229i-09.D Operator : pest2:rmp/kb
Date Inj'd : 2/29/2024 1:24 pm Instrument : Pest 2
Sample : il21660,42e,,pp 11447 Quant Date : 2/29/2024 2:44 pm

Compound #6: 1016-3



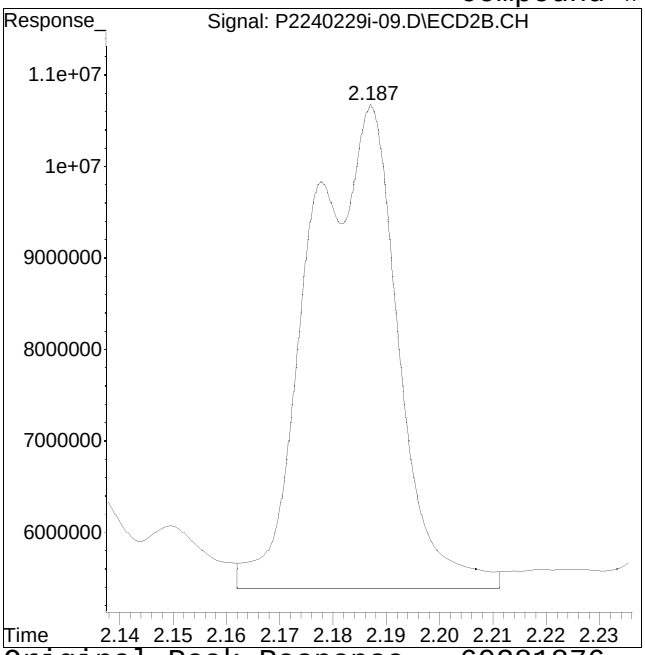


Original Peak Response = 66897777 Manual Peak Response = 46552590 M4
M4 = Poor automated baseline construction.

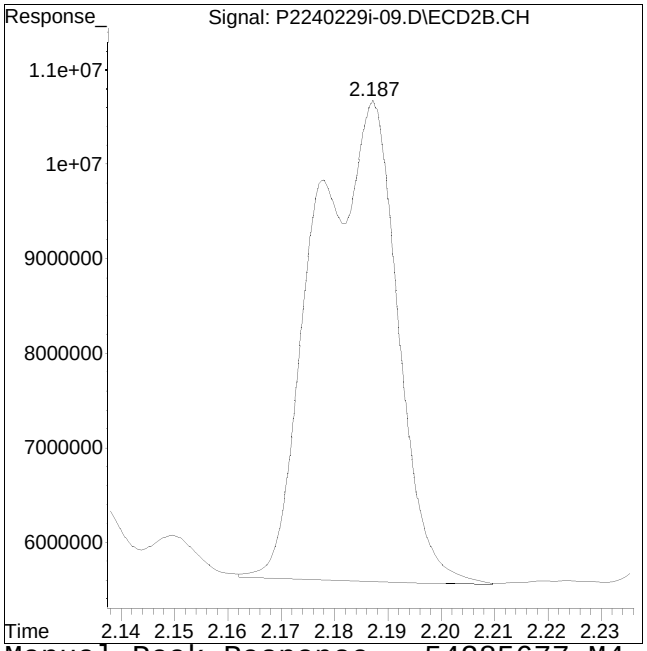
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240229I\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240229i-09.D Operator : pest2:rmp/kb
Date Inj'd : 2/29/2024 1:24 pm Instrument : Pest 2
Sample : il21660,42e,,pp 11447 Quant Date : 2/29/2024 2:44 pm

Compound #57: 1016-3 #2



Original Peak Response = 60281876



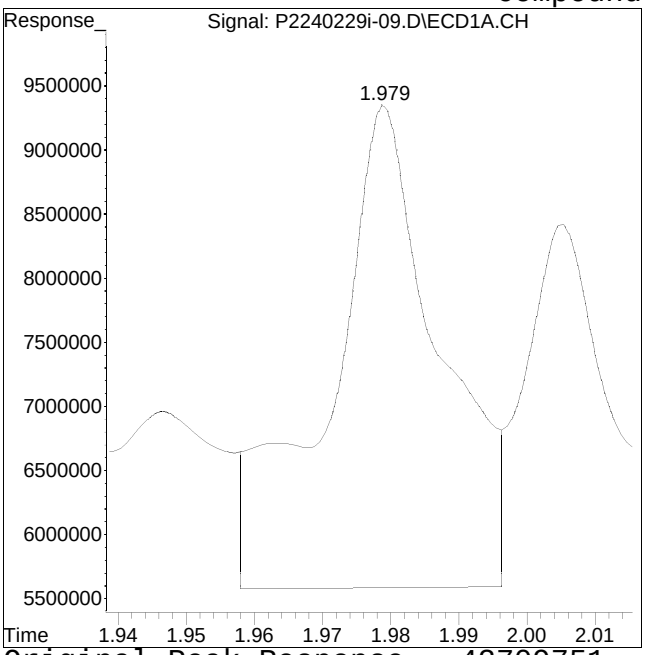
Manual Peak Response = 54285677 M4

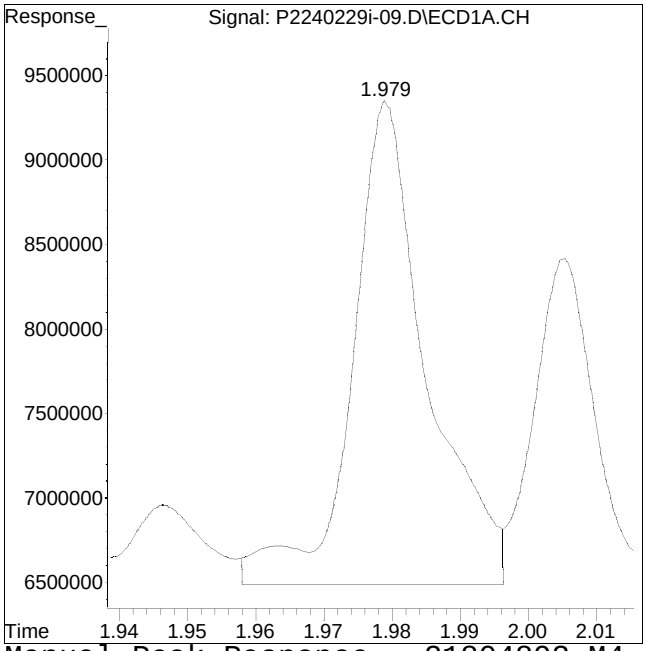
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240229I\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240229i-09.D Operator : pest2:rmp/kb
Date Inj'd : 2/29/2024 1:24 pm Instrument : Pest 2
Sample : il21660,42e,,pp 11447 Quant Date : 2/29/2024 2:44 pm

Compound #7: 1016-4



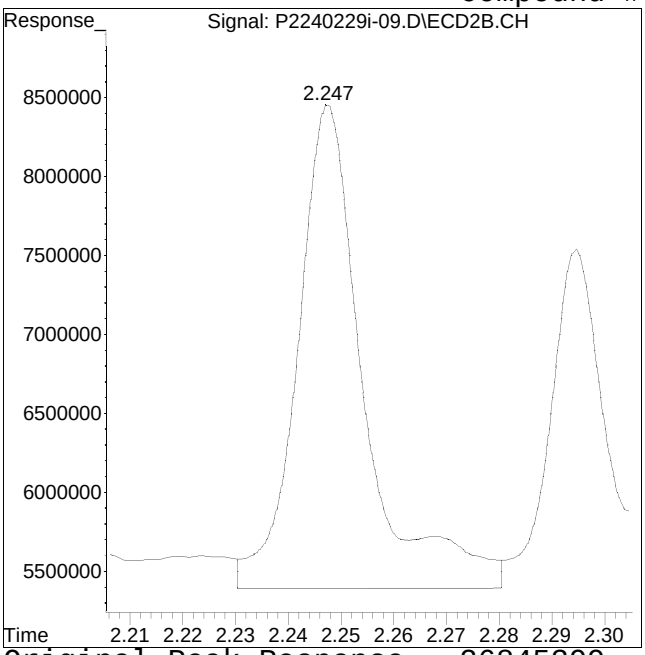


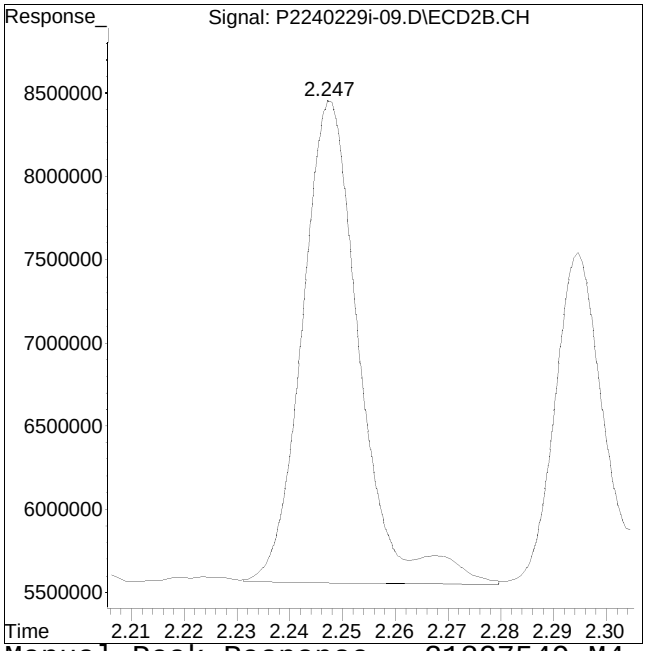
Original Peak Response = 42709751 Manual Peak Response = 21804893 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240229I\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240229i-09.D Operator : pest2:rmp/kb
Date Inj'd : 2/29/2024 1:24 pm Instrument : Pest 2
Sample : il21660,42e,,pp 11447 Quant Date : 2/29/2024 2:44 pm

Compound #58: 1016-4 #2



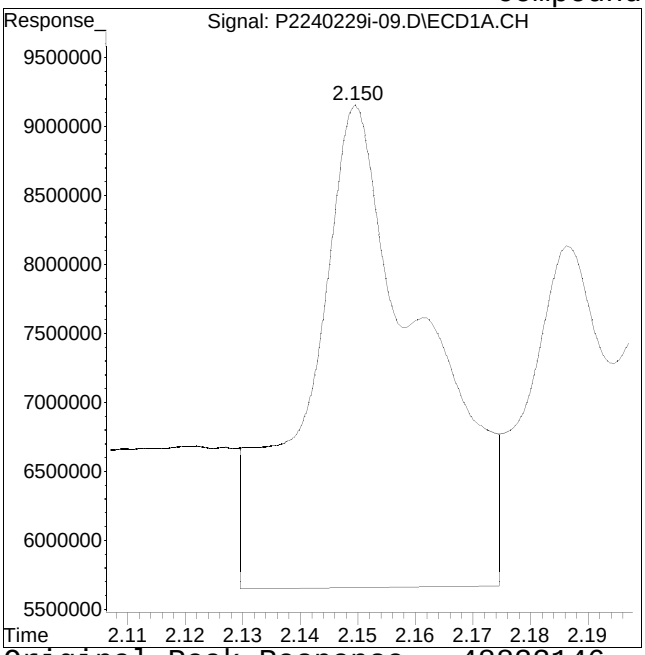


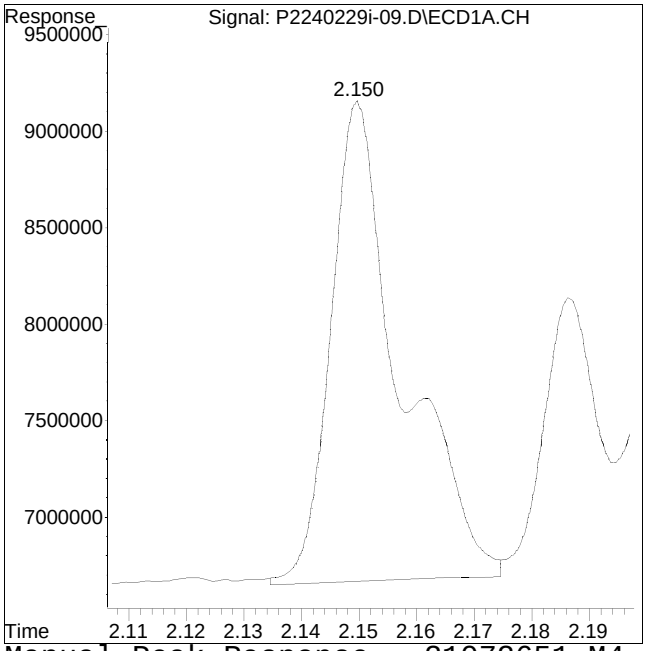
Original Peak Response = 26845399 Manual Peak Response = 21827549 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240229I\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240229i-09.D Operator : pest2:rmp/kb
Date Inj'd : 2/29/2024 1:24 pm Instrument : Pest 2
Sample : il21660,42e,,pp 11447 Quant Date : 2/29/2024 2:44 pm

Compound #8: 1016-5



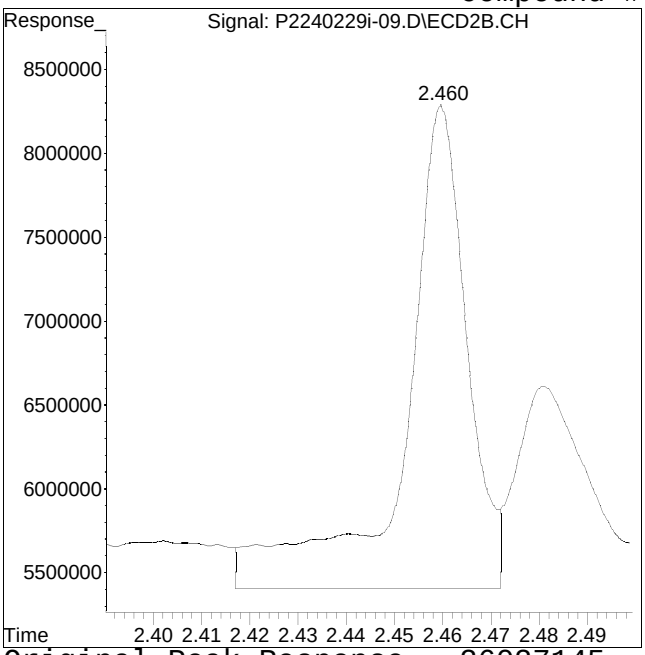


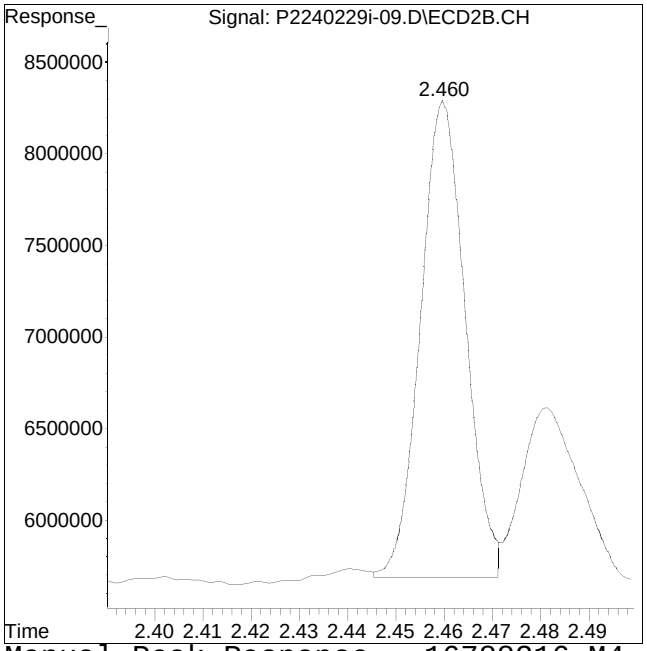
Original Peak Response = 48833146 Manual Peak Response = 21072651 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240229I\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240229i-09.D Operator : pest2:rmp/kb
Date Inj'd : 2/29/2024 1:24 pm Instrument : Pest 2
Sample : il21660,42e,,pp 11447 Quant Date : 2/29/2024 2:44 pm

Compound #59: 1016-5 #2



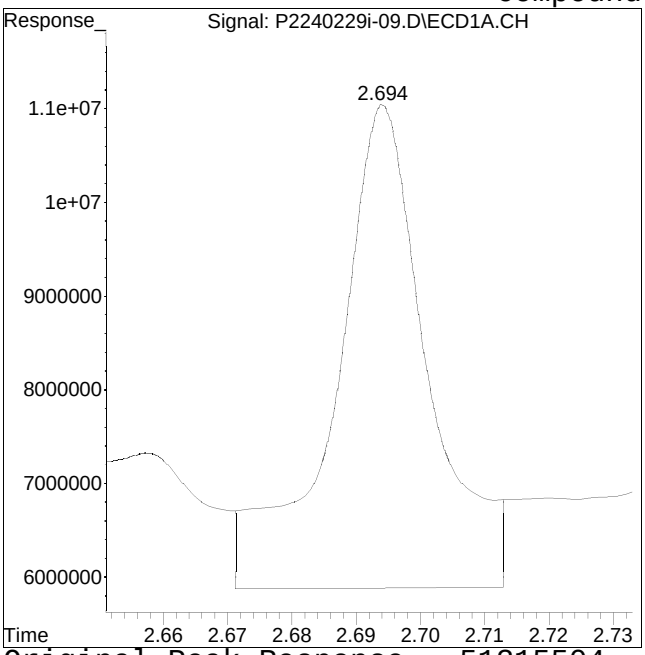


Original Peak Response = 26027145 Manual Peak Response = 16788216 M4
M4 = Poor automated baseline construction.

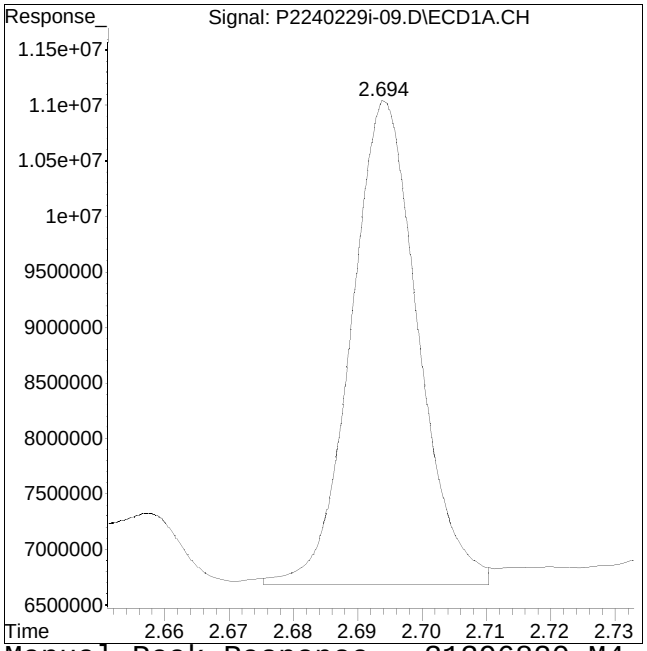
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240229I\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240229i-09.D Operator : pest2:rmp/kb
Date Inj'd : 2/29/2024 1:24 pm Instrument : Pest 2
Sample : il21660,42e,,pp 11447 Quant Date : 2/29/2024 2:44 pm

Compound #9: 1260-1



Original Peak Response = 51315504



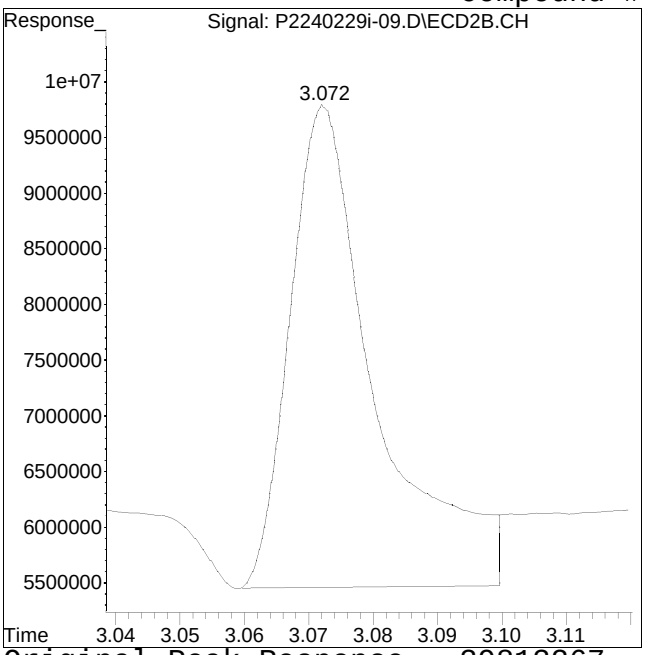
Manual Peak Response = 31396820 M4

M4 = Poor automated baseline construction.

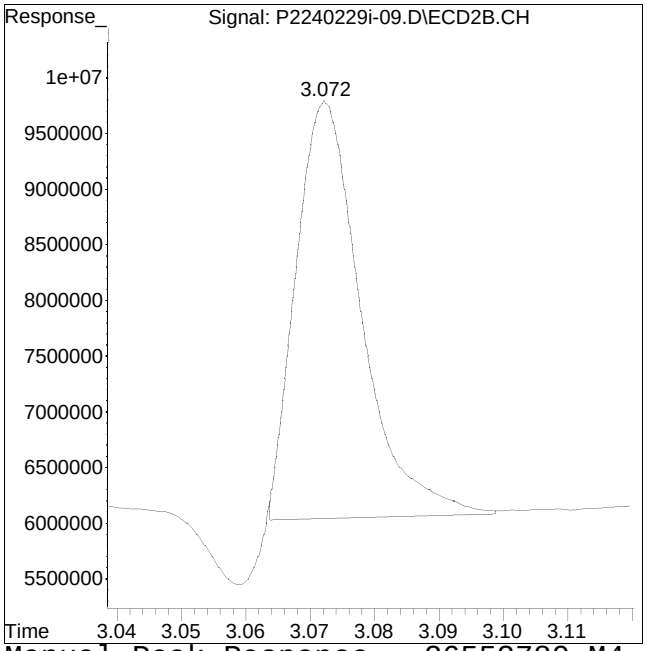
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240229I\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240229i-09.D Operator : pest2:rmp/kb
Date Inj'd : 2/29/2024 1:24 pm Instrument : Pest 2
Sample : il21660,42e,,pp 11447 Quant Date : 2/29/2024 2:44 pm

Compound #60: 1260-1 #2



Original Peak Response = 39813267



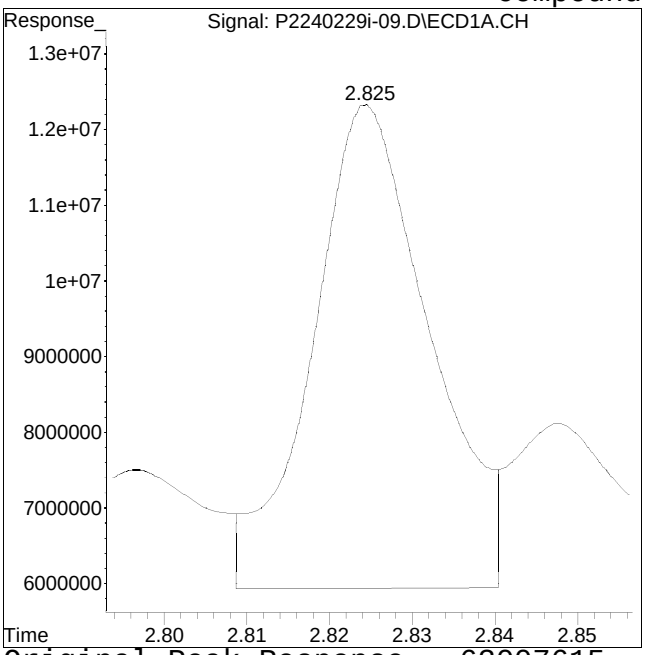
Manual Peak Response = 26553780 M4

M4 = Poor automated baseline construction.

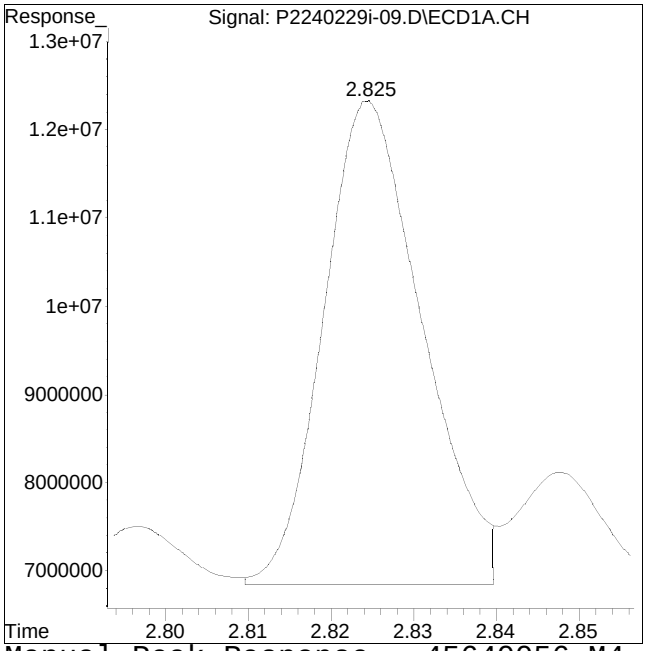
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240229I\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240229i-09.D Operator : pest2:rmp/kb
Date Inj'd : 2/29/2024 1:24 pm Instrument : Pest 2
Sample : il21660,42e,,pp 11447 Quant Date : 2/29/2024 2:44 pm

Compound #10: 1260-2



Original Peak Response = 63007615



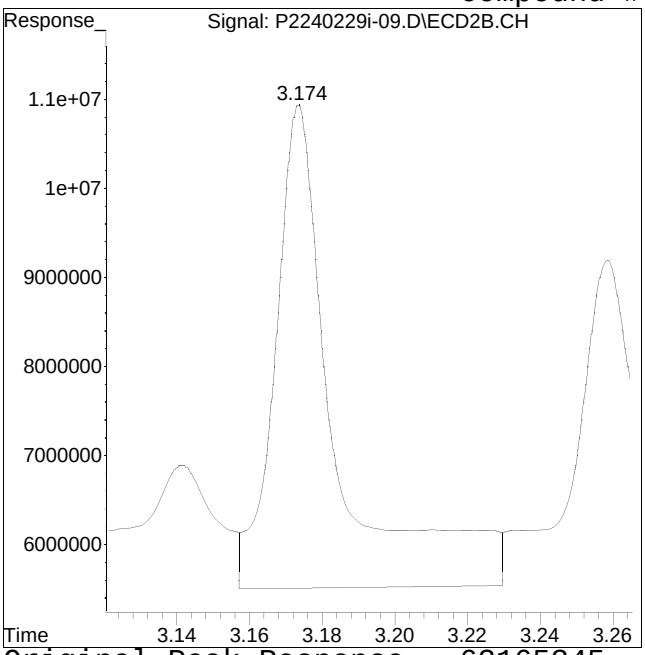
Manual Peak Response = 45640056 M4

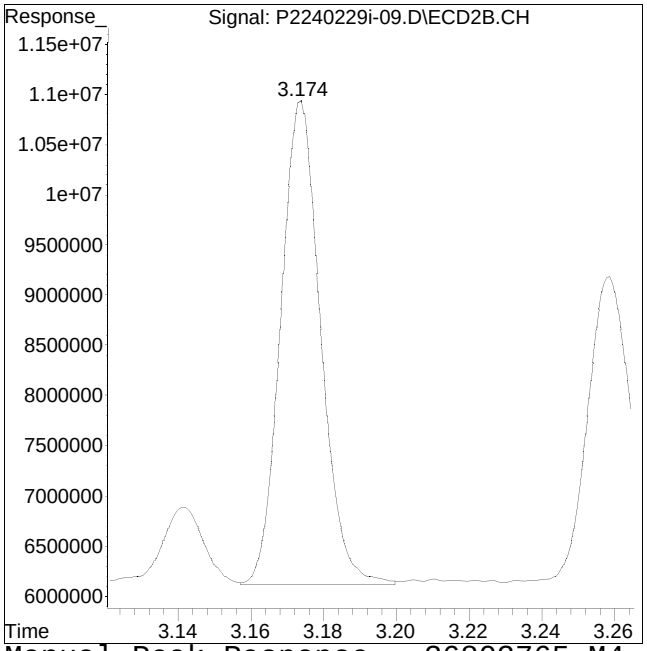
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240229I\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240229i-09.D Operator : pest2:rmp/kb
Date Inj'd : 2/29/2024 1:24 pm Instrument : Pest 2
Sample : il21660,42e,,pp 11447 Quant Date : 2/29/2024 2:44 pm

Compound #61: 1260-2 #2



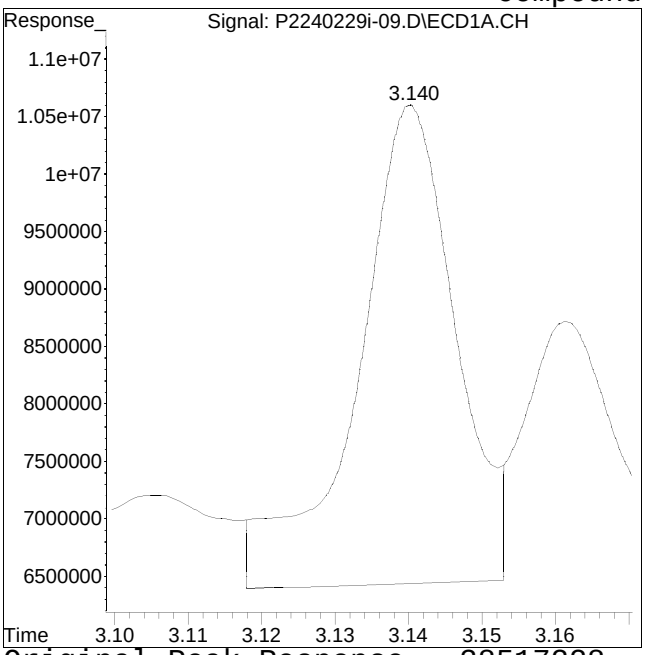


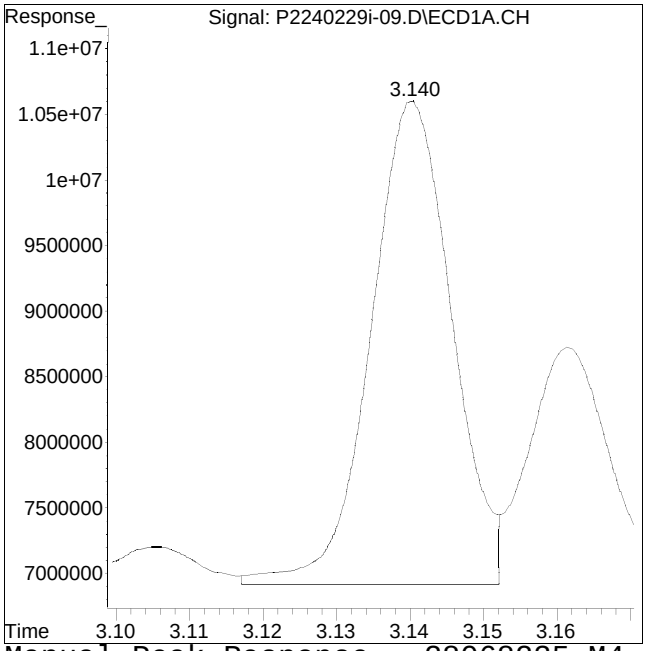
Original Peak Response = 63165345 Manual Peak Response = 36803765 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240229I\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240229i-09.D Operator : pest2:rmp/kb
Date Inj'd : 2/29/2024 1:24 pm Instrument : Pest 2
Sample : il21660,42e,,pp 11447 Quant Date : 2/29/2024 2:44 pm

Compound #11: 1260-3



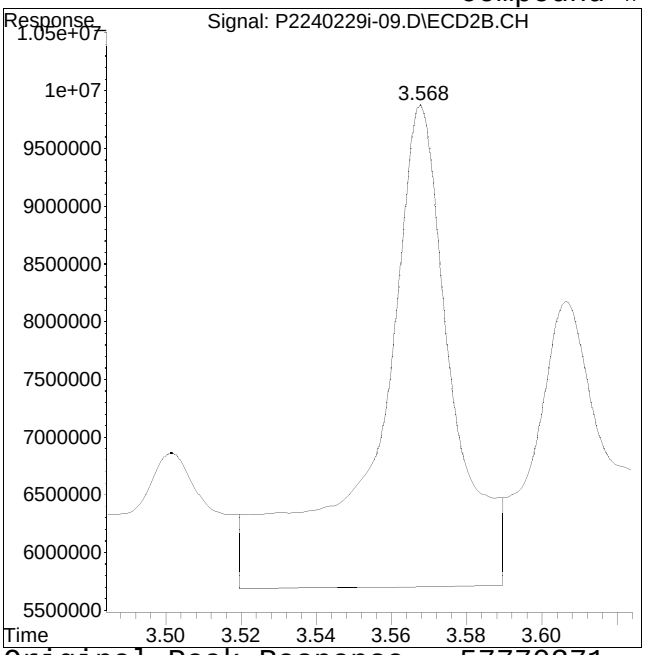


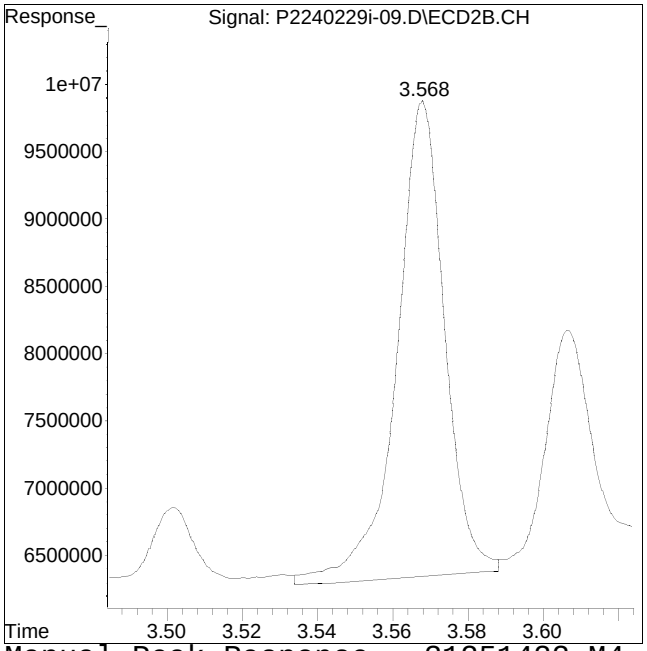
Original Peak Response = 38517228 Manual Peak Response = 28068235 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240229I\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240229i-09.D Operator : pest2:rmp/kb
Date Inj'd : 2/29/2024 1:24 pm Instrument : Pest 2
Sample : il21660,42e,,pp 11447 Quant Date : 2/29/2024 2:44 pm

Compound #62: 1260-3 #2



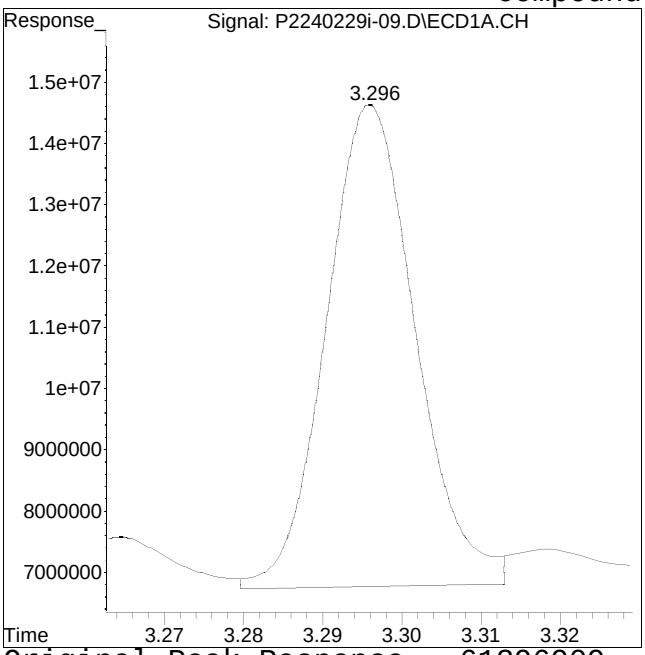


Original Peak Response = 57770371 Manual Peak Response = 31251422 M4
M4 = Poor automated baseline construction.

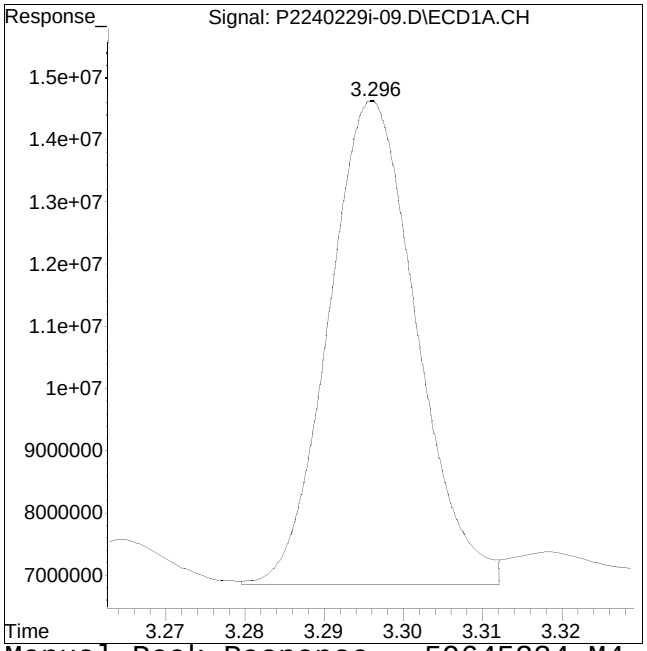
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240229I\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240229i-09.D Operator : pest2:rmp/kb
Date Inj'd : 2/29/2024 1:24 pm Instrument : Pest 2
Sample : il21660,42e,,pp 11447 Quant Date : 2/29/2024 2:44 pm

Compound #12: 1260-4



Original Peak Response = 61396909



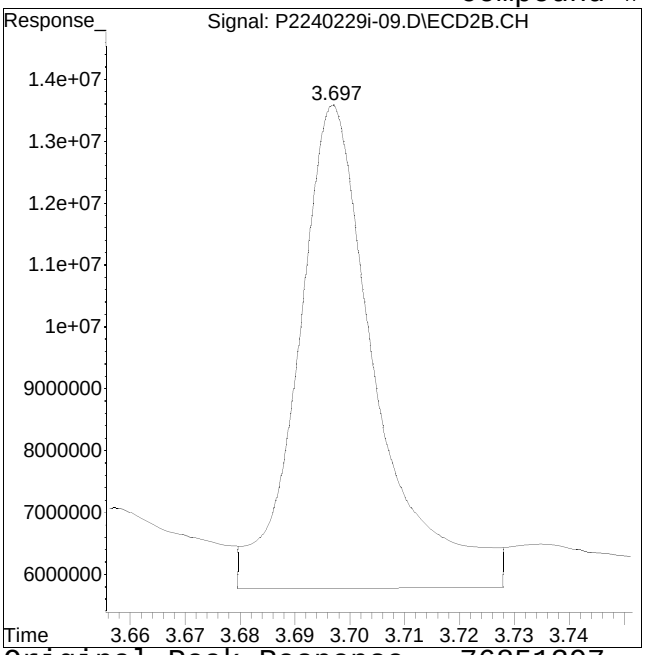
Manual Peak Response = 59645334 M4

M4 = Poor automated baseline construction.

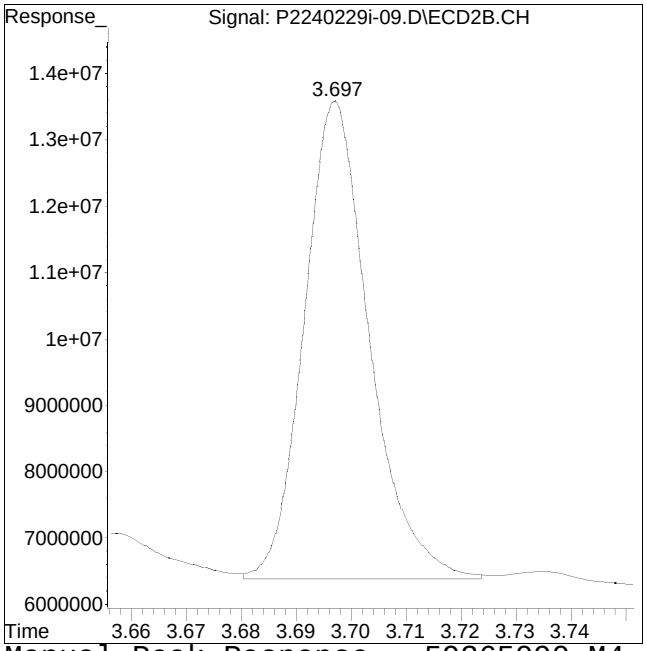
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240229I\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240229i-09.D Operator : pest2:rmp/kb
Date Inj'd : 2/29/2024 1:24 pm Instrument : Pest 2
Sample : il21660,42e,,pp 11447 Quant Date : 2/29/2024 2:44 pm

Compound #63: 1260-4 #2



Original Peak Response = 76851397



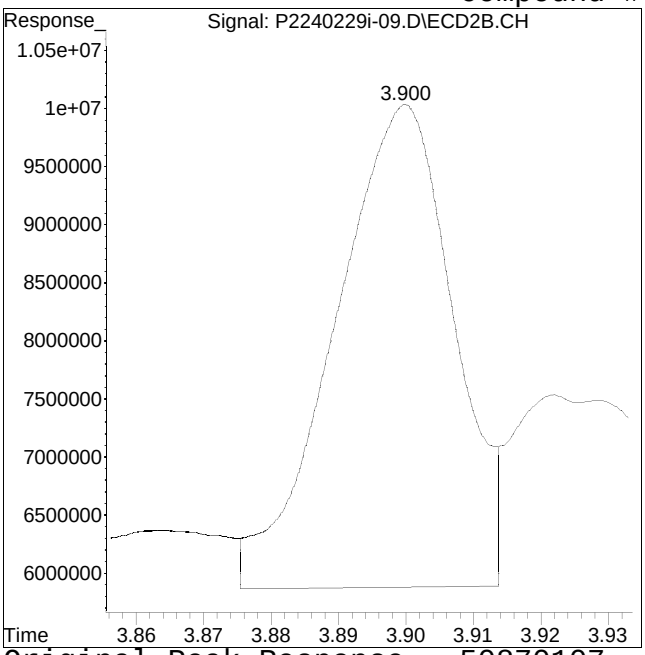
Manual Peak Response = 59365090 M4

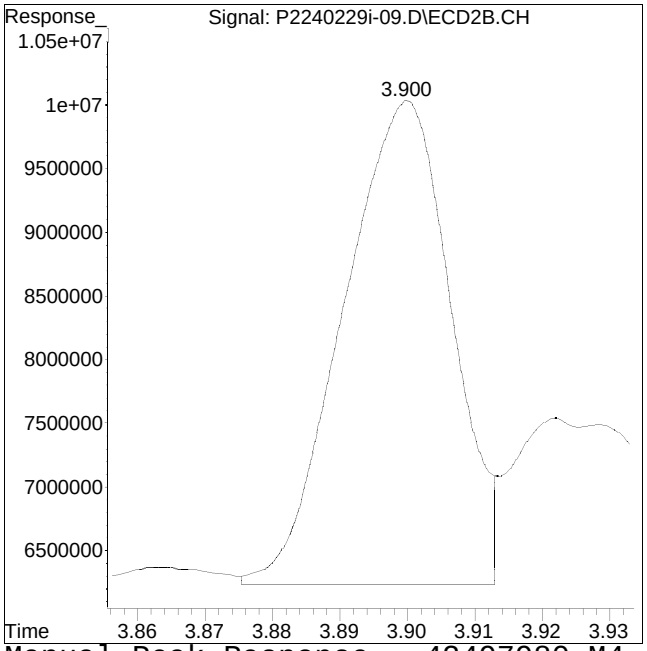
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240229I\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240229i-09.D Operator : pest2:rmp/kb
Date Inj'd : 2/29/2024 1:24 pm Instrument : Pest 2
Sample : il21660,42e,,pp 11447 Quant Date : 2/29/2024 2:44 pm

Compound #64: 1260-5 #2





Original Peak Response = 50870107 Manual Peak Response = 42497980 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240229I\
Data File : P2240229i-10.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Feb 2024 1:33 pm
Operator : pest2:rmp/kb
Sample : il31660,42e,,pp 11447
Misc : WG1891083,, (Sig #1); ,,ical (Sig #2)
ALS Vial : 10 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Feb 29 14:48:25 2024
Quant Method : I:\PCB\Pest2\2024\240229I\P2_pcb_02_29_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Thu Feb 29 14:44:16 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	1.166	1.234	235.5E6	294.1E6	25.000M4	25.000M4
14) i	2154_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
23) i	4268_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
34) i	1248_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
40) i	3262_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.452	1.611	83021055	98163990	4.618M4	5.852
	Spiked Amount 20.000	Range 30 - 150		Recovery =		23.09%#	29.26%#
3) s	Decachlorobi	4.029	4.550	120.0E6	105.7E6	13.547	12.523
	Spiked Amount 20.000	Range 30 - 150		Recovery =		67.73%	62.61%
	Target Compounds						
4) l1	1016-1	1.592	1.813	23724038	28110196	40.027M4	60.786
5) l1	1016-2	1.734	1.985	47274619	60652760	54.641M4	59.894M4
6) l1	1016-3	1.924	2.187	103.4E6	117.5E6	84.378	86.547
7) l1	1016-4	1.979	2.248	43873665	47146099	62.810	75.898
8) l1	1016-5	2.150	2.460	45706681	37704334	72.264	58.942
	Sum 1016-1			263.9E6	291.1E6	314.120	342.068
	Average 1016-1					62.824	68.414
9) l2	1260-1	2.694	3.072	68091182	66606574	74.978	76.283M4
10) l2	1260-2	2.825	3.173	102.5E6	77218846	82.630	65.366M4
11) l2	1260-3	3.141	3.568	64032590	64037367	80.454	41.548M4
12) l2	1260-4	3.297	3.698	131.5E6	132.7E6	105.875	74.471
13) l2	1260-5	3.444	3.900	94855508	89744685	111.459M1	88.809
	Sum 1260-1			461.0E6	430.3E6	NoCal	NoCal D
	Average 1260-1					91.079	69.295
15) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PCB\Pest2\2024\240229I\
Data File : P2240229i-10.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Feb 2024 1:33 pm
Operator : pest2:rmp/kb
Sample : il31660,42e,,pp 11447
Misc : WG1891083,, (Sig #1); ,,ical (Sig #2)
ALS Vial : 10 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Feb 29 14:48:25 2024
Quant Method : I:\PCB\Pest2\2024\240229I\P2_pcb_02_29_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Thu Feb 29 14:44:16 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
16) l3	1221-3	0.000	0.000	0	0	N.D. d	N.D. d
17) l3	1221-4	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1221-2			0	0	N.D.	N.D.
Average	1221-2					0.000	0.000
18) l4	1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4	1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4	1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4	1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4	1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254-1			0	0	N.D.	N.D.
Average	1254-1					0.000	0.000
24) l6	1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6	1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6	1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6	1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6	1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242-1			0	0	N.D.	N.D.
Average	1242-1					0.000	0.000
29) l9	1268-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l9	1268-2	0.000	0.000	0	0	N.D. d	N.D. d
31) l9	1268-3	0.000	0.000	0	0	N.D. d	N.D. d
32) l9	1268-4	0.000	0.000	0	0	N.D. d	N.D. d
33) l9	1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1268-1			0	0	N.D.	N.D.
Average	1268-1					0.000	0.000
35) l7	1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7	1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7	1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7	1248-4	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PCB\Pest2\2024\240229I\
Data File : P2240229i-10.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Feb 2024 1:33 pm
Operator : pest2:rmp/kb
Sample : il31660,42e,,pp 11447
Misc : WG1891083,, (Sig #1); ,,ical (Sig #2)
ALS Vial : 10 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Feb 29 14:48:25 2024
Quant Method : I:\PCB\Pest2\2024\240229I\P2_pcb_02_29_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Thu Feb 29 14:44:16 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
39) l7	1248-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1248-1			0	0	N.D.	N.D.
Average	1248-1					0.000	0.000
41) l5	1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5	1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5	1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5	1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5	1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1232-1			0	0	N.D.	N.D.
Average	1232-1					0.000	0.000
46) l8	1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8	1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8	1262-3	0.000	0.000	0	0	N.D. d	N.D. d
49) l8	1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50) l8	1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

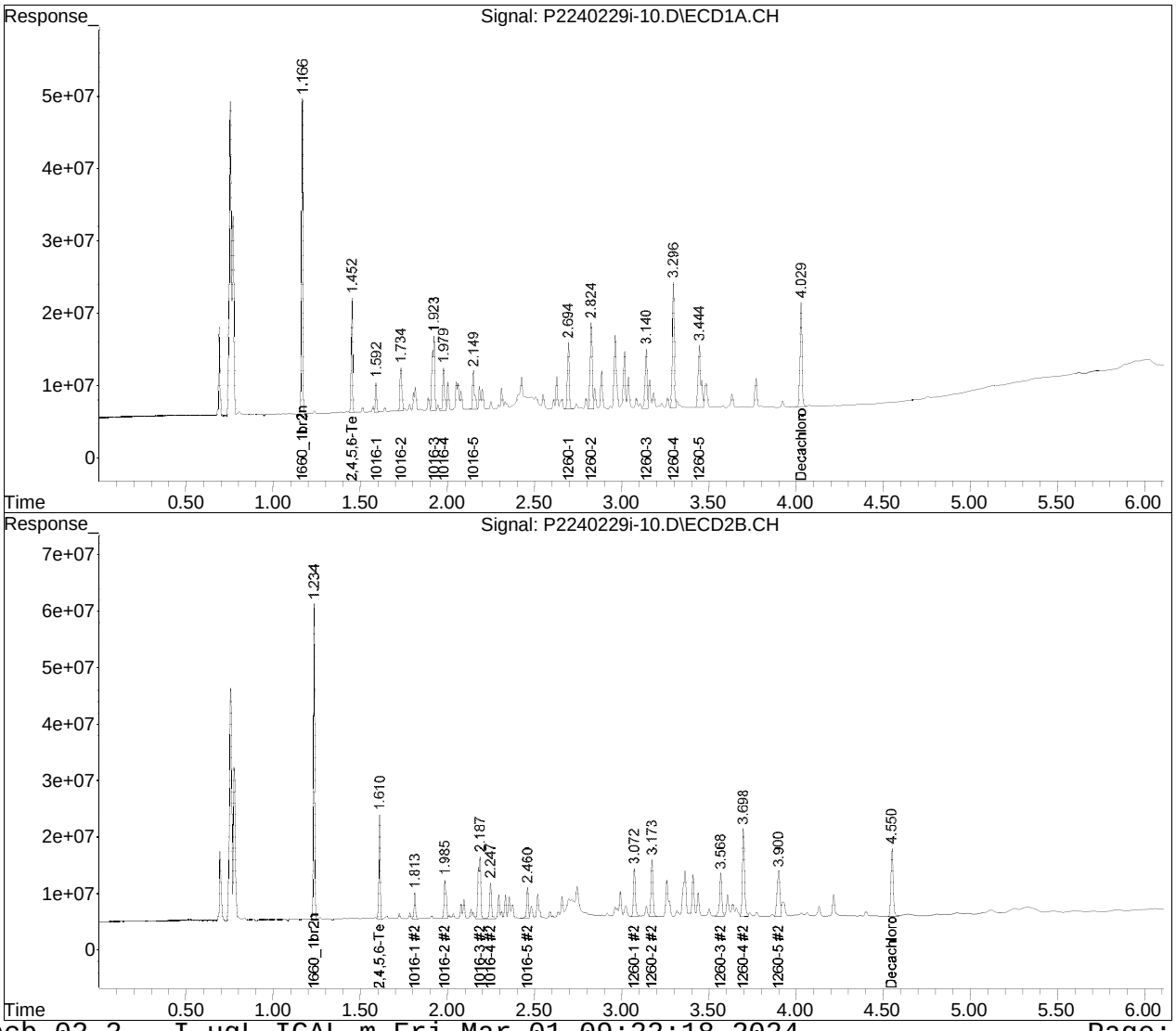
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PCB\Pest2\2024\240229I\
Data File : P2240229i-10.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Feb 2024 1:33 pm
Operator : pest2:rmp/kb
Sample : il31660,42e,,pp 11447
Misc : WG1891083,, (Sig #1); ,,ical (Sig #2)
ALS Vial : 10 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Feb 29 14:48:25 2024
Quant Method : I:\PCB\Pest2\2024\240229I\P2_pcb_02_29_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Thu Feb 29 14:44:16 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

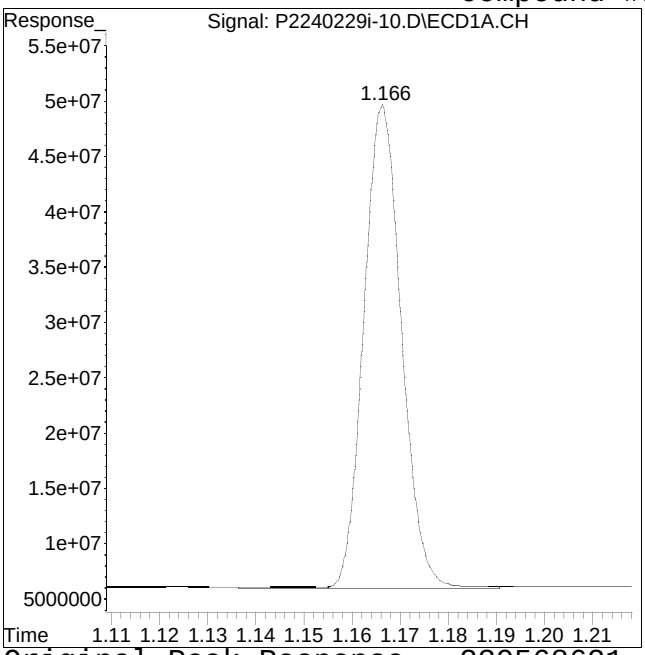
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

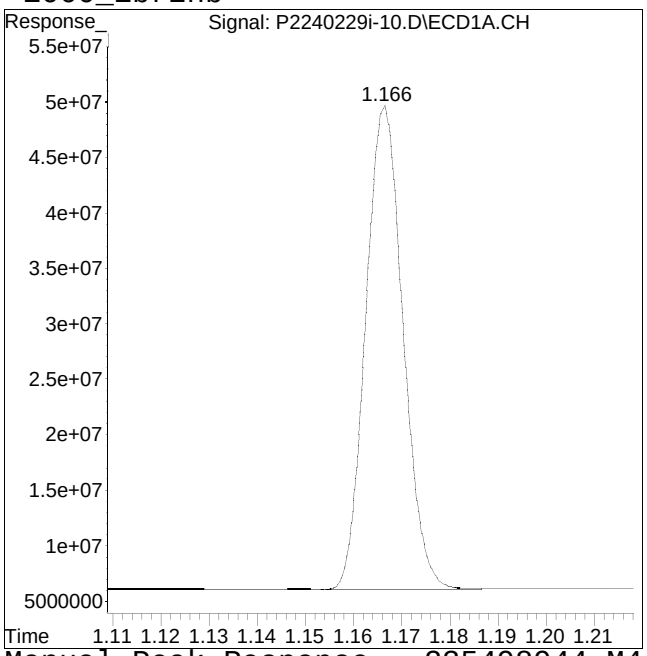


Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240229I\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240229i-10.D Operator : pest2:rmp/kb
Date Inj'd : 2/29/2024 1:33 pm Instrument : Pest 2
Sample : il31660,42e,,pp 11447 Quant Date : 2/29/2024 2:44 pm

Compound #1: 1660_1br2nb



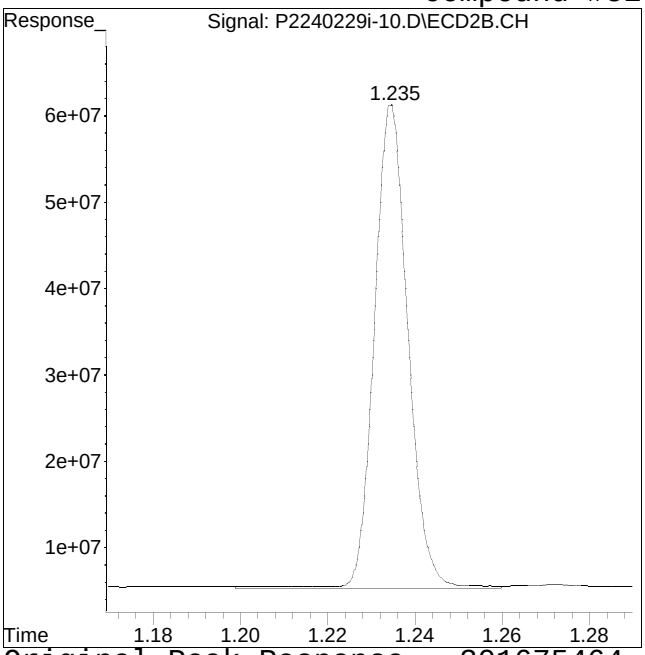


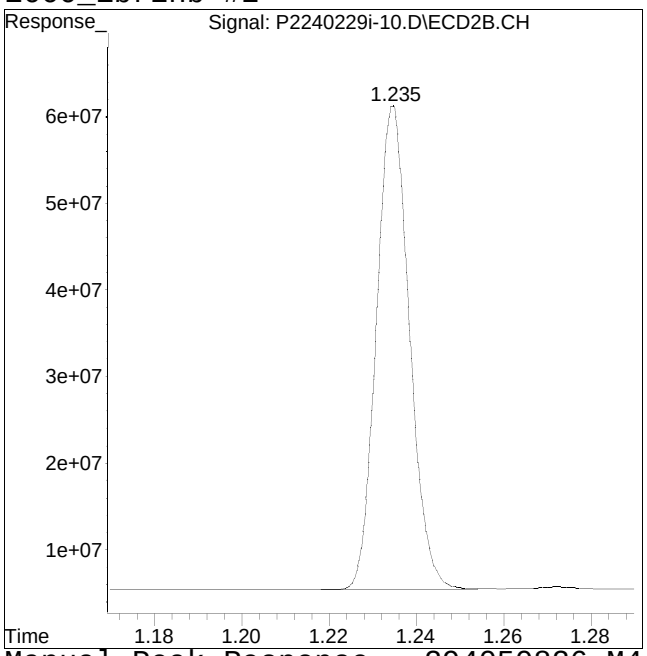
Original Peak Response = 239568621 Manual Peak Response = 235498944 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240229I\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240229i-10.D Operator : pest2:rmp/kb
Date Inj'd : 2/29/2024 1:33 pm Instrument : Pest 2
Sample : il31660,42e,,pp 11447 Quant Date : 2/29/2024 2:44 pm

Compound #52: 1660_1br2nb #2



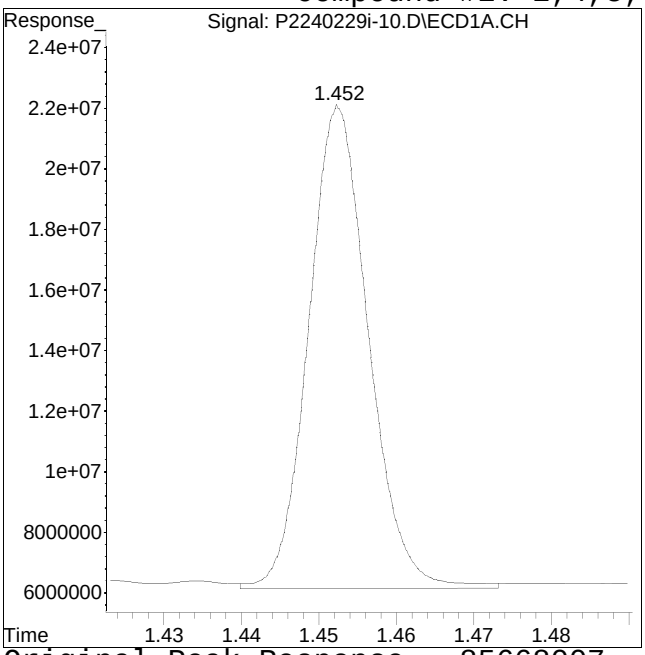


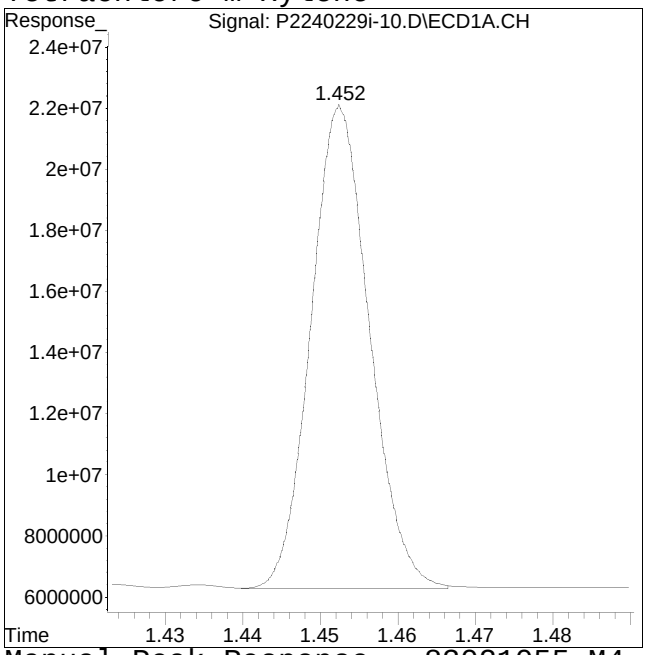
Original Peak Response = 301675464 Manual Peak Response = 294050826 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240229I\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240229i-10.D Operator : pest2:rmp/kb
Date Inj'd : 2/29/2024 1:33 pm Instrument : Pest 2
Sample : il31660,42e,,pp 11447 Quant Date : 2/29/2024 2:44 pm

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



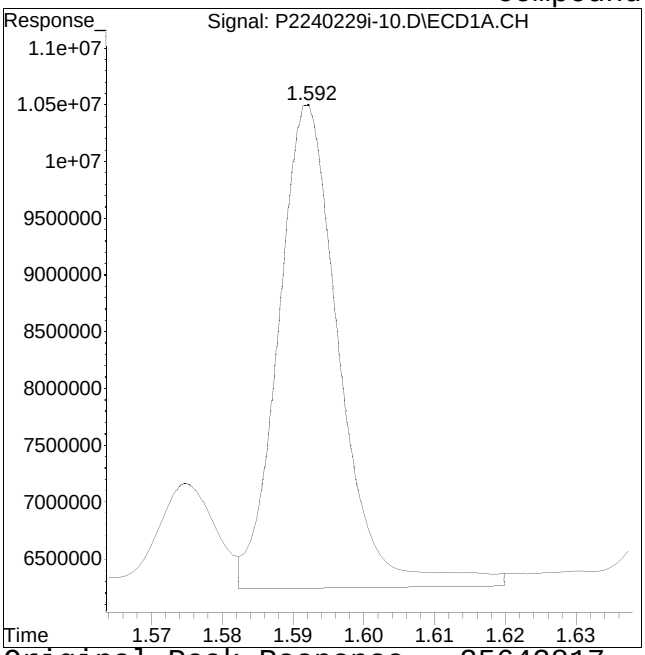


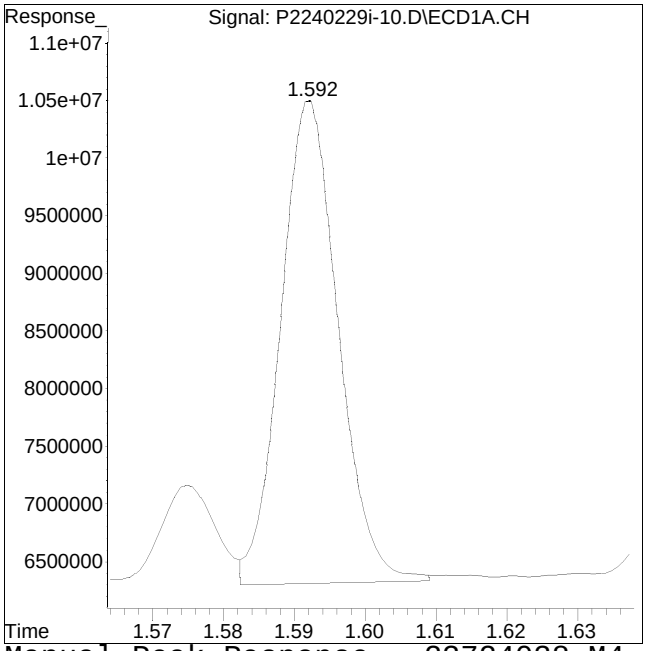
Original Peak Response = 85668007 Manual Peak Response = 83021055 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240229I\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240229i-10.D Operator : pest2:rmp/kb
Date Inj'd : 2/29/2024 1:33 pm Instrument : Pest 2
Sample : il31660,42e,,pp 11447 Quant Date : 2/29/2024 2:44 pm

Compound #4: 1016-1



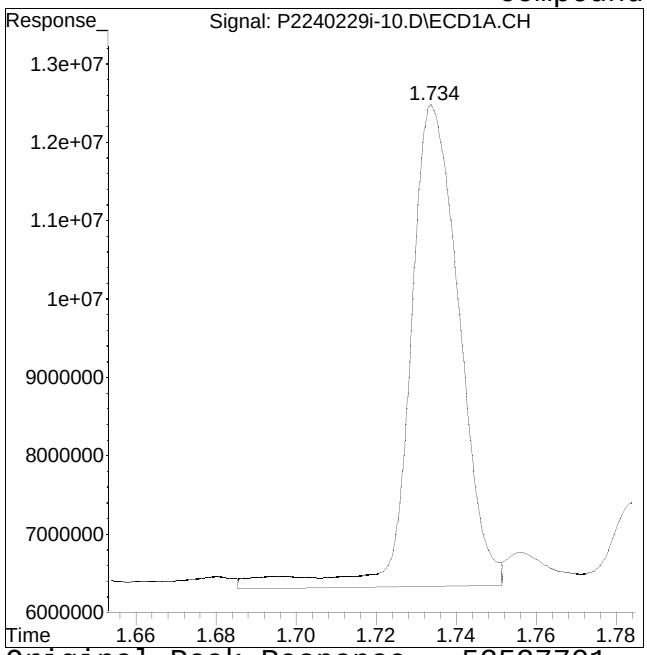


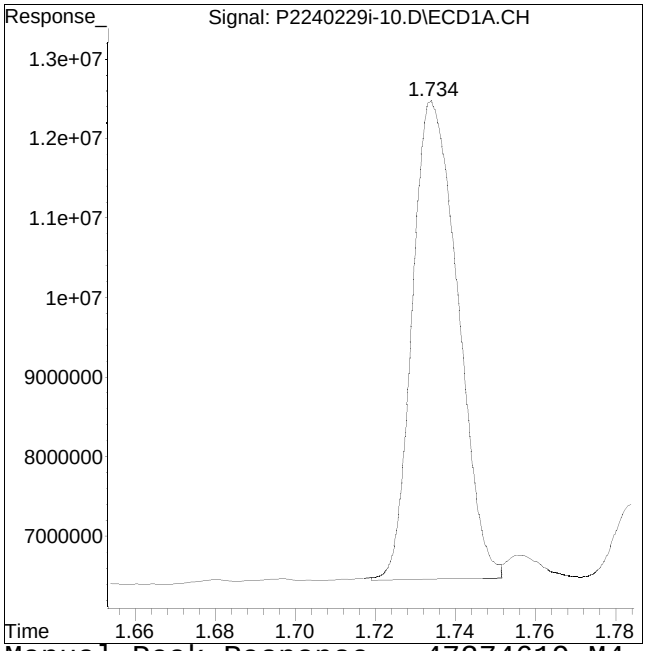
Original Peak Response = 25642817 Manual Peak Response = 23724038 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240229I\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240229i-10.D Operator : pest2:rmp/kb
Date Inj'd : 2/29/2024 1:33 pm Instrument : Pest 2
Sample : il31660,42e,,pp 11447 Quant Date : 2/29/2024 2:44 pm

Compound #5: 1016-2



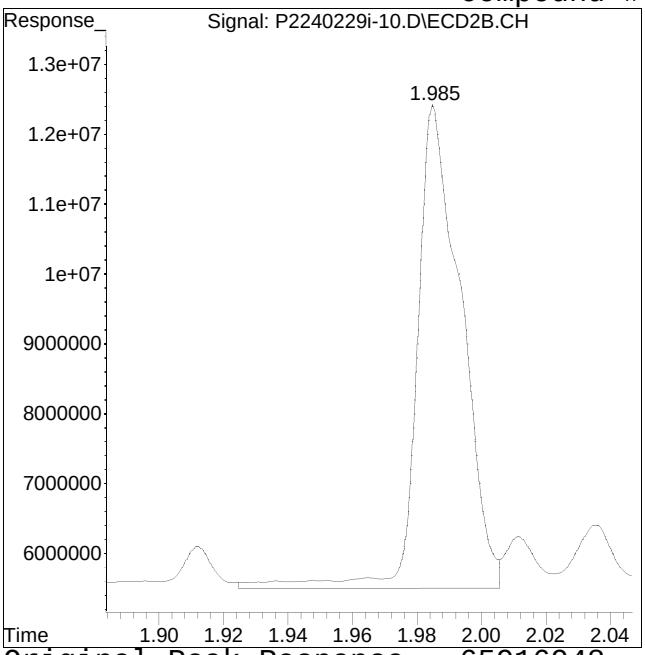


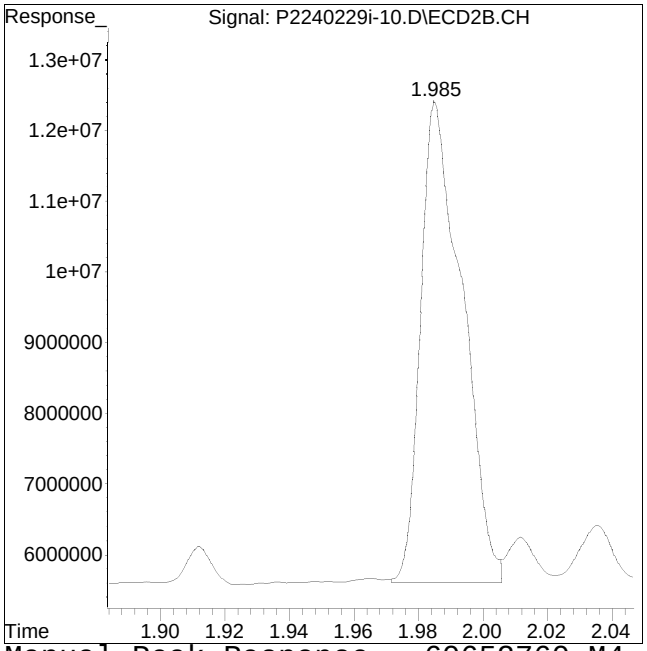
Original Peak Response = 52527701 Manual Peak Response = 47274619 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240229I\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240229i-10.D Operator : pest2:rmp/kb
Date Inj'd : 2/29/2024 1:33 pm Instrument : Pest 2
Sample : il31660,42e,,pp 11447 Quant Date : 2/29/2024 2:44 pm

Compound #56: 1016-2 #2



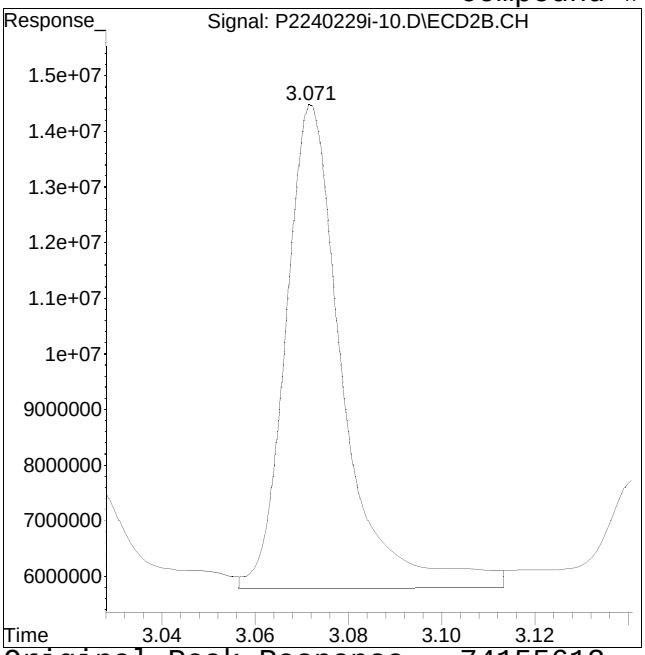


Original Peak Response = 65916948 Manual Peak Response = 60652760 M4
M4 = Poor automated baseline construction.

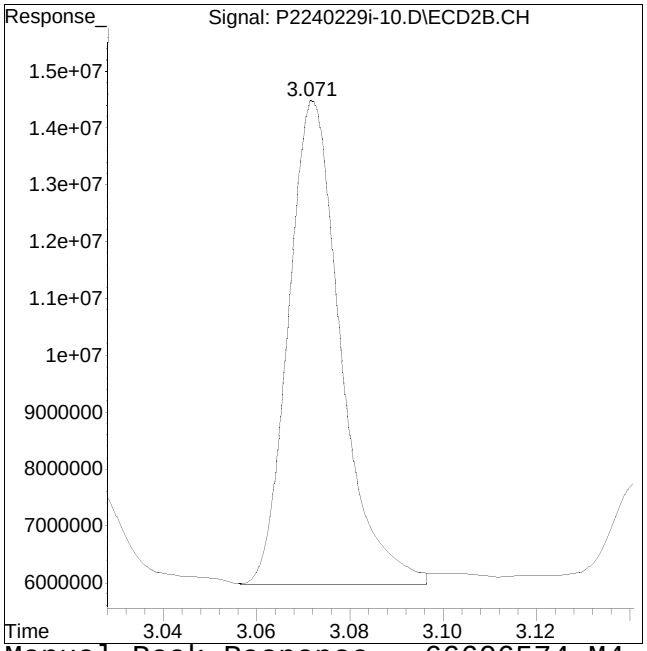
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240229I\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240229i-10.D Operator : pest2:rmp/kb
Date Inj'd : 2/29/2024 1:33 pm Instrument : Pest 2
Sample : il31660,42e,,pp 11447 Quant Date : 2/29/2024 2:44 pm

Compound #60: 1260-1 #2



Original Peak Response = 74155612



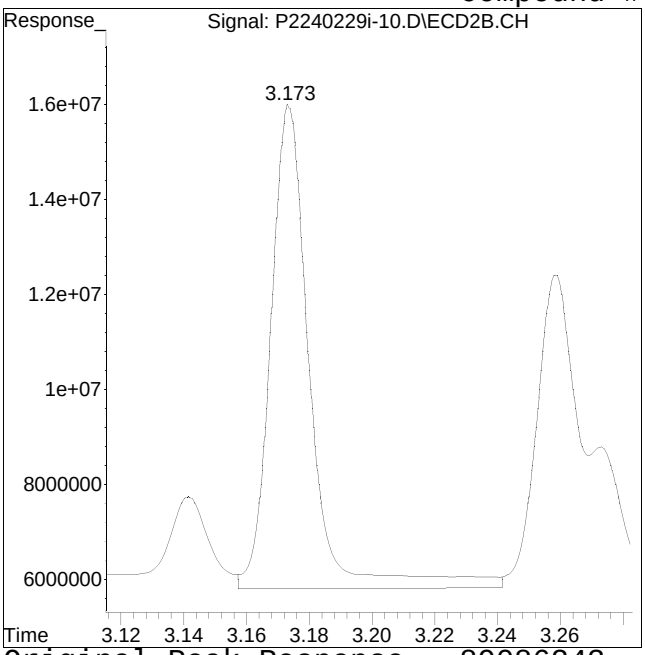
Manual Peak Response = 66606574 M4

M4 = Poor automated baseline construction.

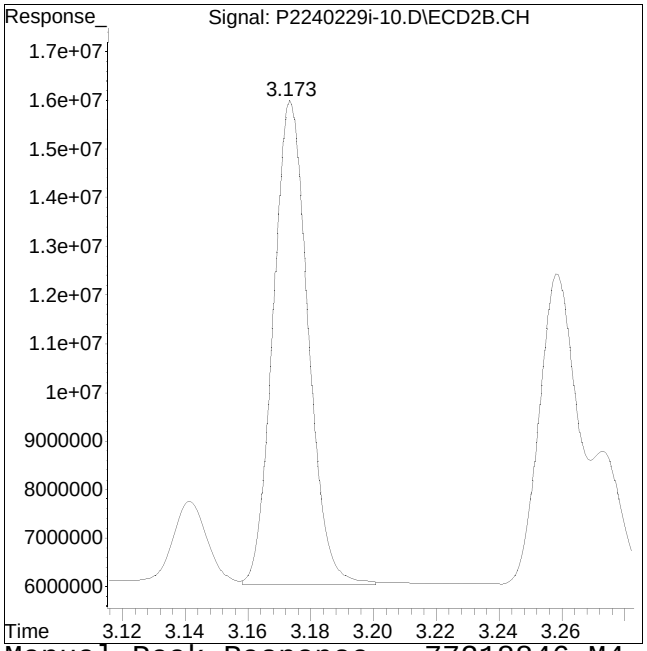
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240229I\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240229i-10.D Operator : pest2:rmp/kb
Date Inj'd : 2/29/2024 1:33 pm Instrument : Pest 2
Sample : il31660,42e,,pp 11447 Quant Date : 2/29/2024 2:44 pm

Compound #61: 1260-2 #2



Original Peak Response = 89086243



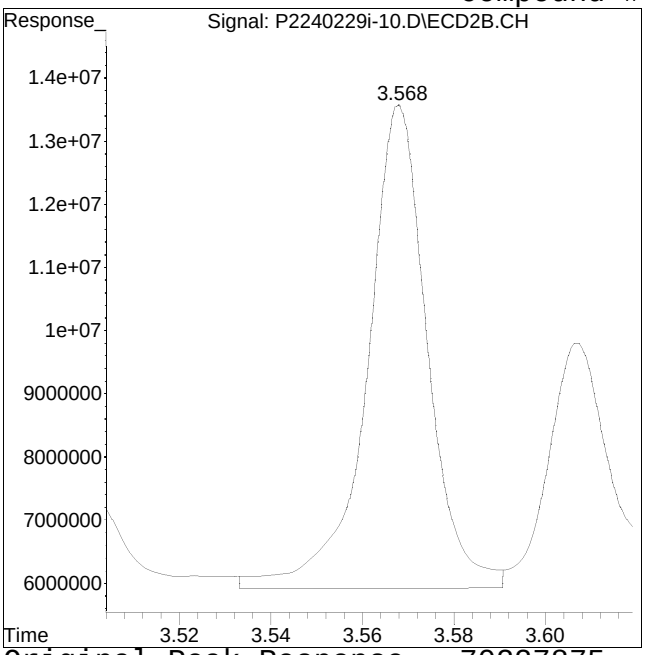
Manual Peak Response = 77218846 M4

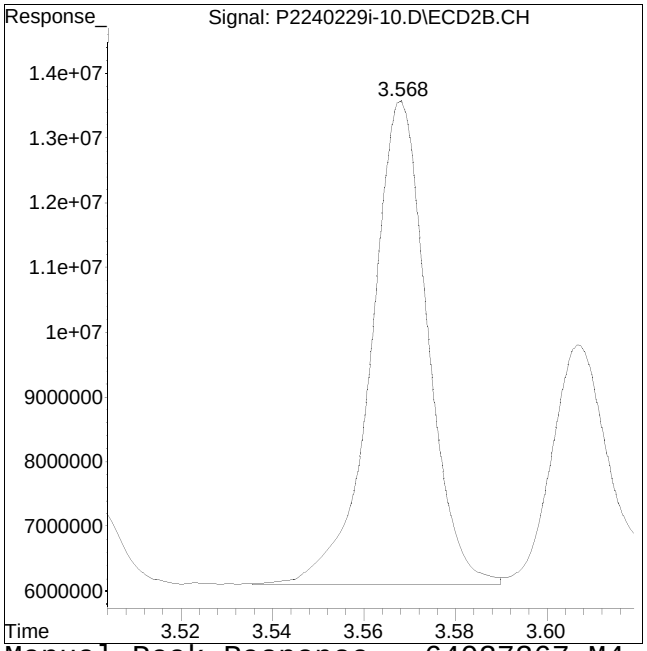
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240229I\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240229i-10.D Operator : pest2:rmp/kb
Date Inj'd : 2/29/2024 1:33 pm Instrument : Pest 2
Sample : il31660,42e,,pp 11447 Quant Date : 2/29/2024 2:44 pm

Compound #62: 1260-3 #2



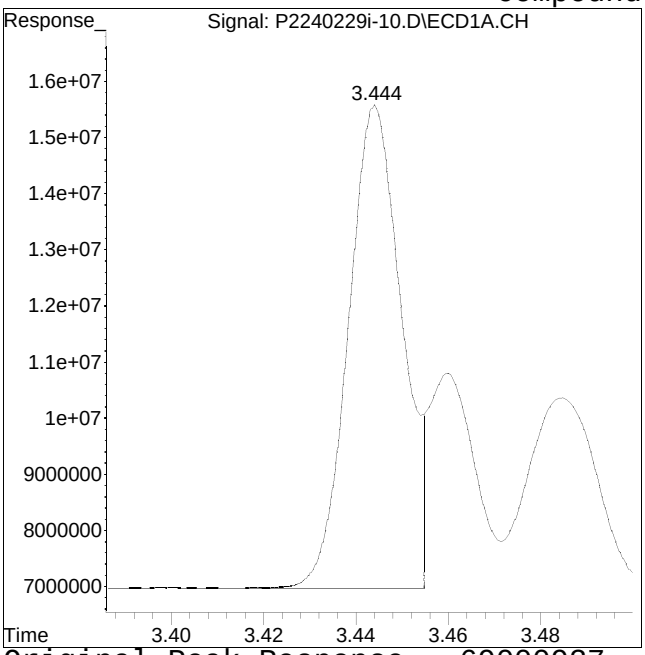


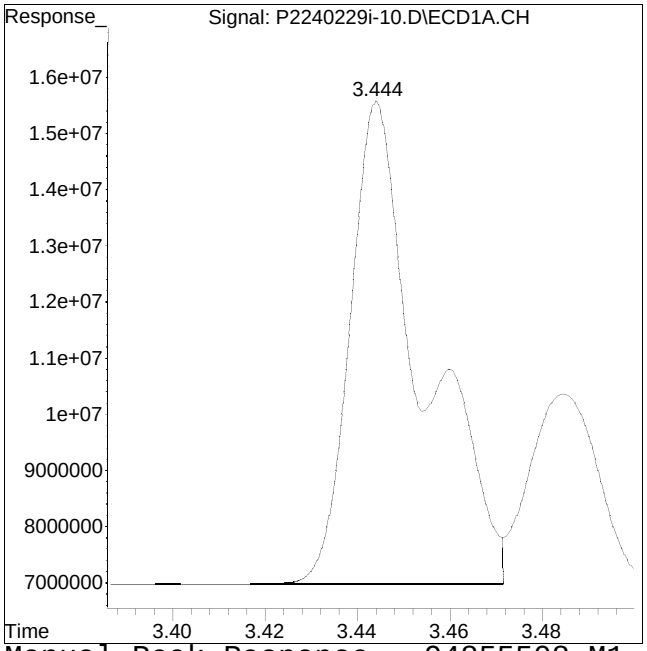
Original Peak Response = 70227875 Manual Peak Response = 64037367 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240229I\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240229i-10.D Operator : pest2:rmp/kb
Date Inj'd : 2/29/2024 1:33 pm Instrument : Pest 2
Sample : il31660,42e,,pp 11447 Quant Date : 2/29/2024 2:44 pm

Compound #13: 1260-5





Original Peak Response = 69000937 Manual Peak Response = 94855508 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240229I\
Data File : P2240229i-11.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Feb 2024 1:42 pm
Operator : pest2:rmp/kb
Sample : il41660,42e,,pp 11447
Misc : WG1891083,, (Sig #1); ,,ical (Sig #2)
ALS Vial : 11 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Feb 29 14:46:36 2024
Quant Method : I:\PCB\Pest2\2024\240229I\P2_pcb_02_29_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Thu Feb 29 14:44:32 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	1.166	1.235	240.1E6	294.0E6	25.000M4	25.000
14) i	2154_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
23) i	4268_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
34) i	1248_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
40) i	3262_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.452	1.611	197.2E6	226.8E6	11.534M4	13.901
	Spiked Amount 20.000	Range 30 - 150		Recovery =		57.67%	69.50%
3) s	Decachlorobi	4.029	4.550	269.6E6	229.0E6	29.560	27.436
	Spiked Amount 20.000	Range 30 - 150		Recovery =		147.80%	137.18%
	Target Compounds						
4) l1	1016-1	1.592	1.813	52852787	59722162	102.159M3	143.808
5) l1	1016-2	1.734	1.986	110.7E6	134.6E6	139.602M3	146.340
6) l1	1016-3	1.923	2.188	238.0E6	264.1E6	199.058M3	202.527
7) l1	1016-4	1.978	2.248	102.8E6	104.3E6	159.709M4	179.603
8) l1	1016-5	2.149	2.460	102.5E6	81792160	171.417M4	143.098
	Sum 1016-1			606.9E6	644.5E6	771.944	815.377
	Average 1016-1					154.389	163.075
9) l2	1260-1	2.694	3.072	153.5E6	144.4E6	177.528	172.866
10) l2	1260-2	2.824	3.173	227.4E6	168.7E6	188.772M3	152.977M4
11) l2	1260-3	3.140	3.568	144.0E6	142.8E6	187.273	107.609
12) l2	1260-4	3.296	3.698	302.9E6	284.9E6	236.748M3	171.716
13) l2	1260-5	3.444	3.901	217.3E6	194.6E6	263.828	199.256
	Sum 1260-1			1045.1E6	935.4E6	NoCal	NoCal D
	Average 1260-1					210.830	160.885
15) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d
16) l3	1221-3	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240229I\
Data File : P2240229i-11.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Feb 2024 1:42 pm
Operator : pest2:rmp/kb
Sample : il41660,42e,,pp 11447
Misc : WG1891083,, (Sig #1); ,,ical (Sig #2)
ALS Vial : 11 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Feb 29 14:46:36 2024
Quant Method : I:\PCB\Pest2\2024\240229I\P2_pcb_02_29_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Thu Feb 29 14:44:32 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
17) l3	1221-4	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1221-2			0	0	N.D.	N.D.
Average	1221-2					0.000	0.000
18) l4	1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4	1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4	1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4	1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4	1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254-1			0	0	N.D.	N.D.
Average	1254-1					0.000	0.000
24) l6	1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6	1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6	1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6	1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6	1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242-1			0	0	N.D.	N.D.
Average	1242-1					0.000	0.000
29) l9	1268-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l9	1268-2	0.000	0.000	0	0	N.D. d	N.D. d
31) l9	1268-3	0.000	0.000	0	0	N.D. d	N.D. d
32) l9	1268-4	0.000	0.000	0	0	N.D. d	N.D. d
33) l9	1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1268-1			0	0	N.D.	N.D.
Average	1268-1					0.000	0.000
35) l7	1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7	1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7	1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7	1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7	1248-5	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240229I\
Data File : P2240229i-11.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Feb 2024 1:42 pm
Operator : pest2:rmp/kb
Sample : il41660,42e,,pp 11447
Misc : WG1891083,, (Sig #1); ,,ical (Sig #2)
ALS Vial : 11 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Feb 29 14:46:36 2024
Quant Method : I:\PCB\Pest2\2024\240229I\P2_pcb_02_29_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Thu Feb 29 14:44:32 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Sum	1248-1			0	0	N.D.	N.D.
Average	1248-1					0.000	0.000
41) l5	1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5	1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5	1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5	1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5	1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1232-1			0	0	N.D.	N.D.
Average	1232-1					0.000	0.000
46) l8	1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8	1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8	1262-3	0.000	0.000	0	0	N.D. d	N.D. d
49) l8	1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50) l8	1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

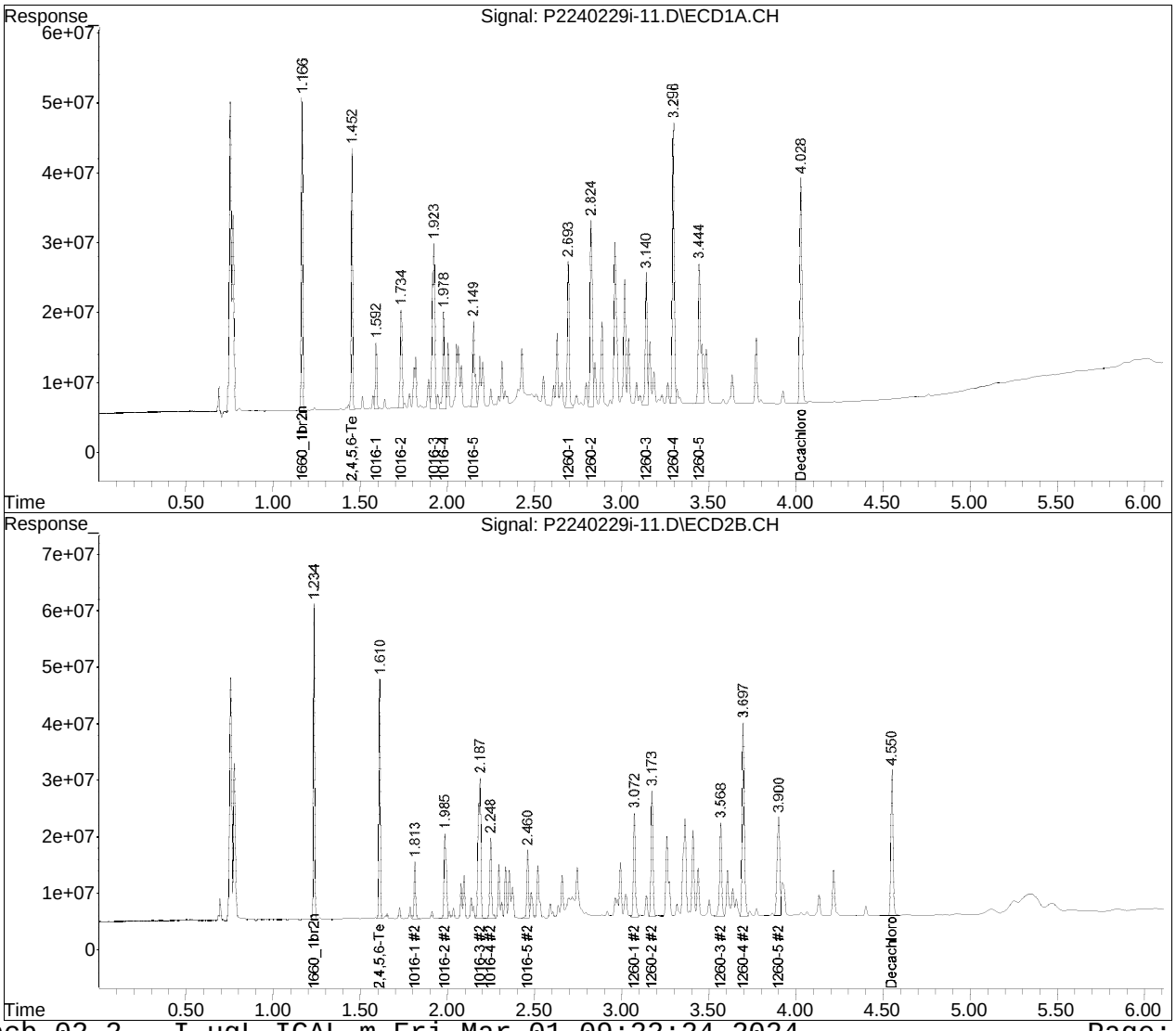
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PCB\Pest2\2024\240229I\
Data File : P2240229i-11.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Feb 2024 1:42 pm
Operator : pest2:rmp/kb
Sample : il41660,42e,,pp 11447
Misc : WG1891083,, (Sig #1); ,,ical (Sig #2)
ALS Vial : 11 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Feb 29 14:46:36 2024
Quant Method : I:\PCB\Pest2\2024\240229I\P2_pcb_02_29_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Thu Feb 29 14:44:32 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

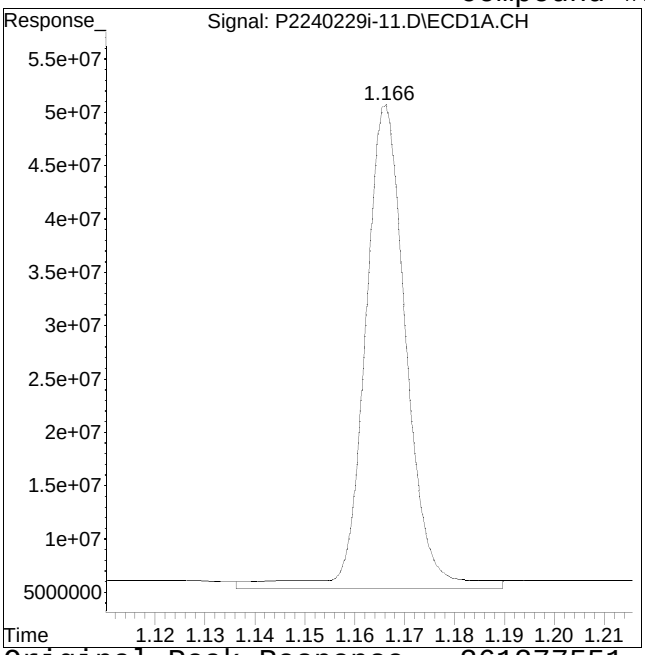
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

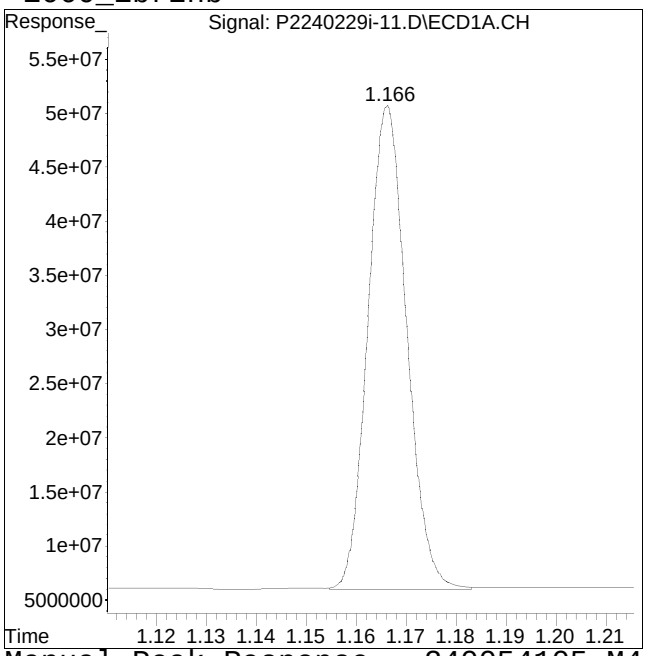


Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240229I\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240229i-11.D Operator : pest2:rmp/kb
Date Inj'd : 2/29/2024 1:42 pm Instrument : Pest 2
Sample : il41660,42e,,pp 11447 Quant Date : 2/29/2024 2:44 pm

Compound #1: 1660_1br2nb



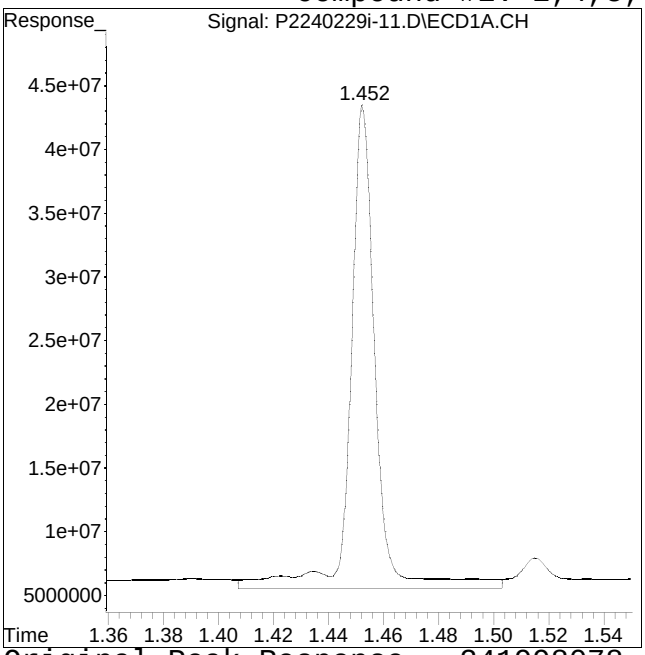


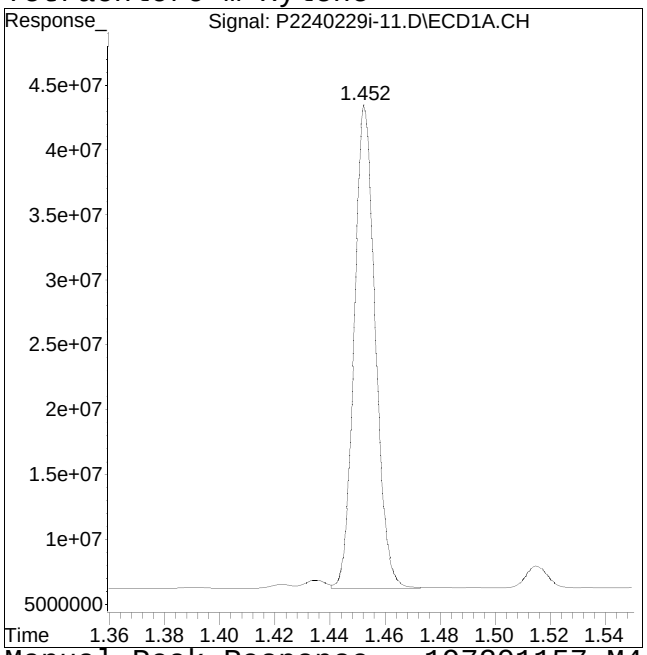
Original Peak Response = 261277551 Manual Peak Response = 240054105 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240229I\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240229i-11.D Operator : pest2:rmp/kb
Date Inj'd : 2/29/2024 1:42 pm Instrument : Pest 2
Sample : il41660,42e,,pp 11447 Quant Date : 2/29/2024 2:44 pm

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



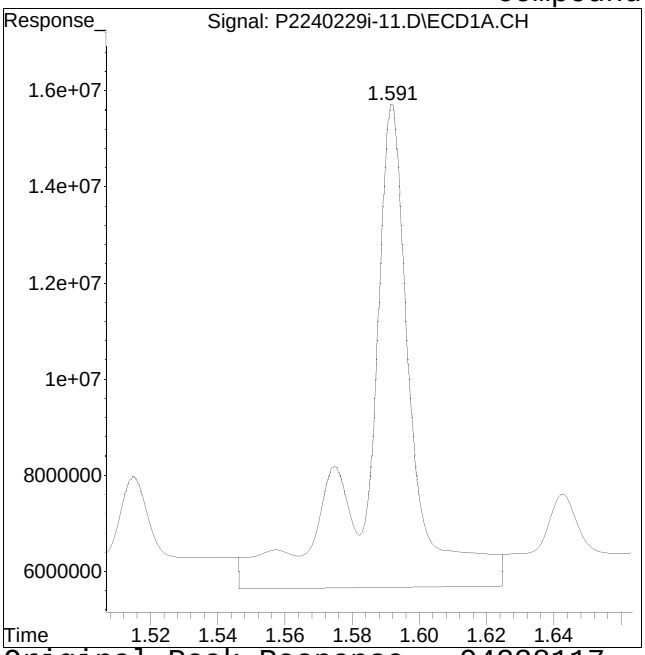


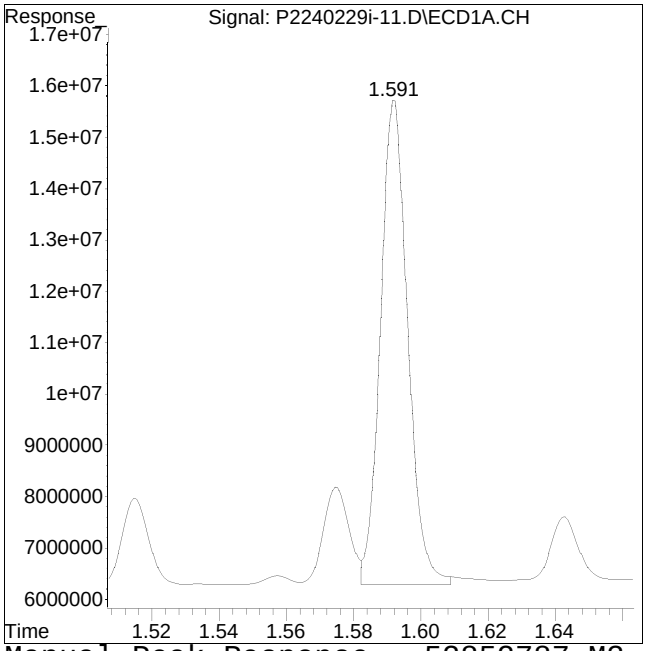
Original Peak Response = 241998078 Manual Peak Response = 197201157 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240229I\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240229i-11.D Operator : pest2:rmp/kb
Date Inj'd : 2/29/2024 1:42 pm Instrument : Pest 2
Sample : il41660,42e,,pp 11447 Quant Date : 2/29/2024 2:44 pm

Compound #4: 1016-1



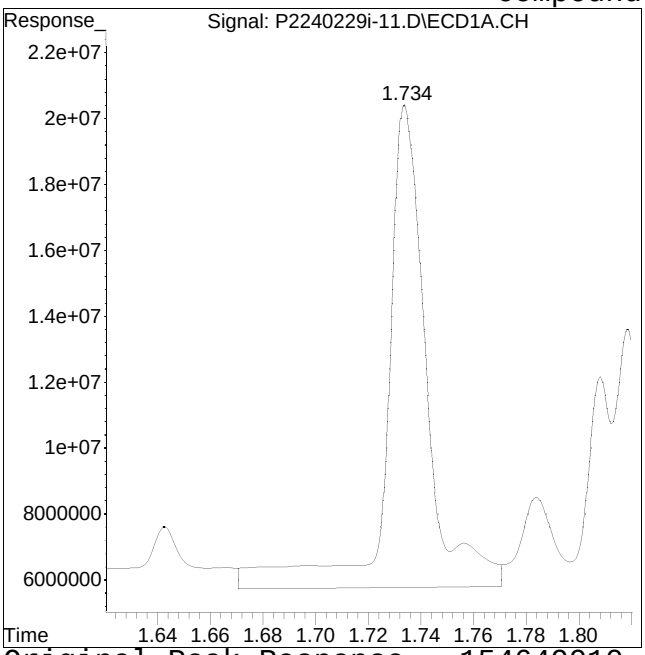


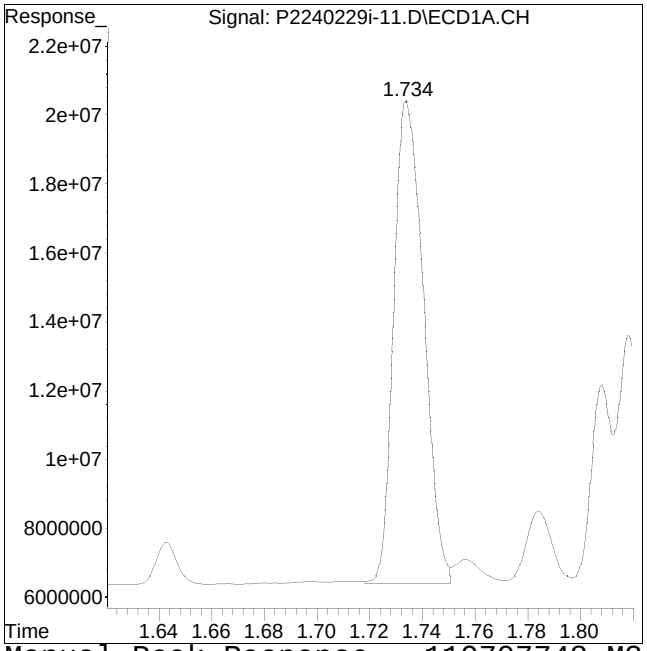
Original Peak Response = 94238117 Manual Peak Response = 52852787 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240229I\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240229i-11.D Operator : pest2:rmp/kb
Date Inj'd : 2/29/2024 1:42 pm Instrument : Pest 2
Sample : il41660,42e,,pp 11447 Quant Date : 2/29/2024 2:44 pm

Compound #5: 1016-2



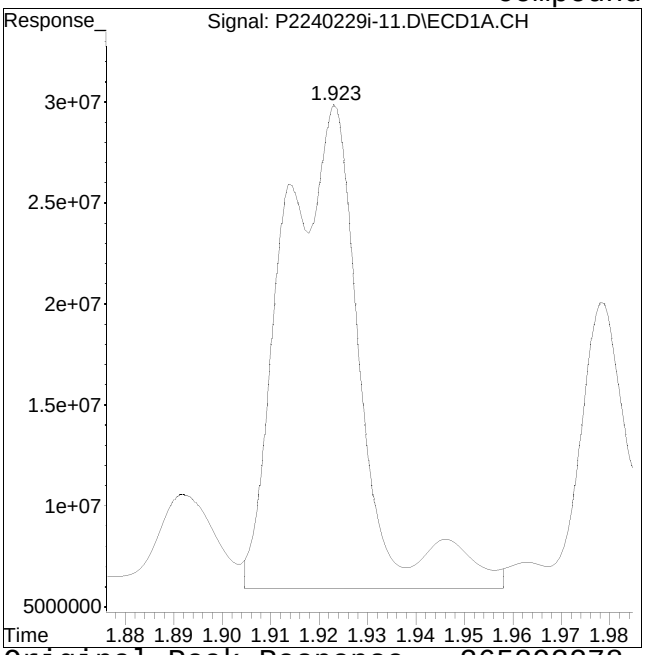


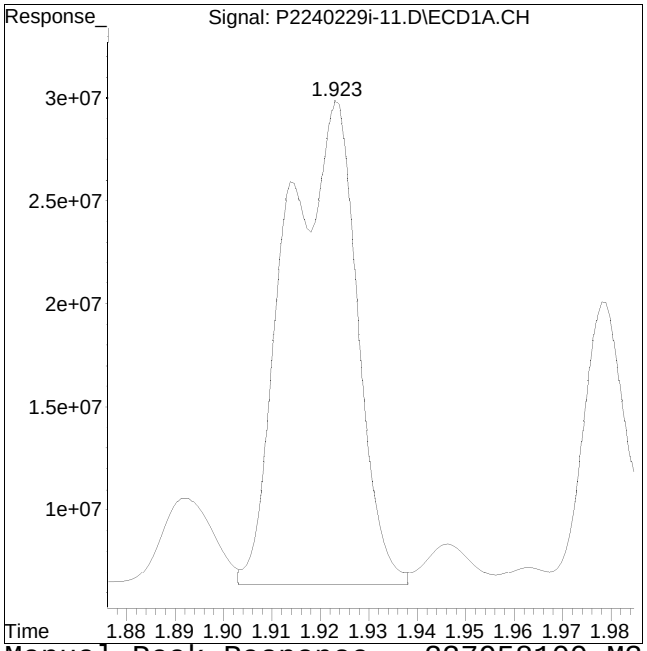
Original Peak Response = 154649910 Manual Peak Response = 110707748 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240229I\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240229i-11.D Operator : pest2:rmp/kb
Date Inj'd : 2/29/2024 1:42 pm Instrument : Pest 2
Sample : il41660,42e,,pp 11447 Quant Date : 2/29/2024 2:44 pm

Compound #6: 1016-3



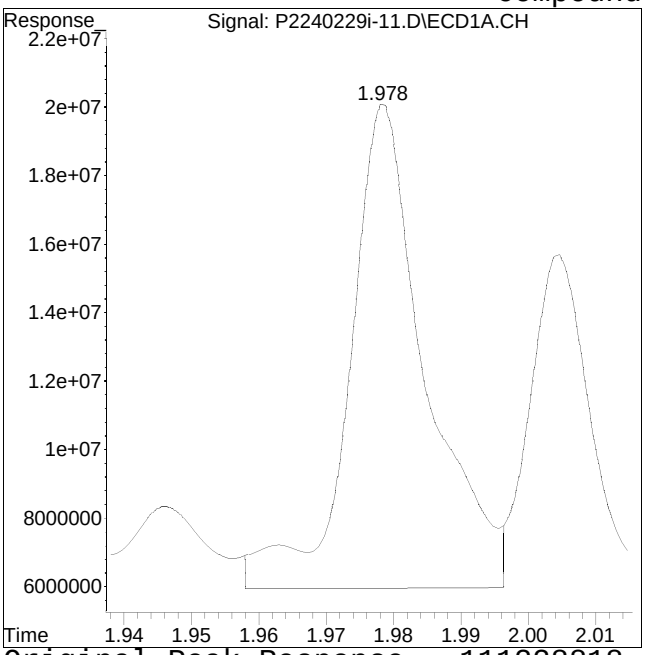


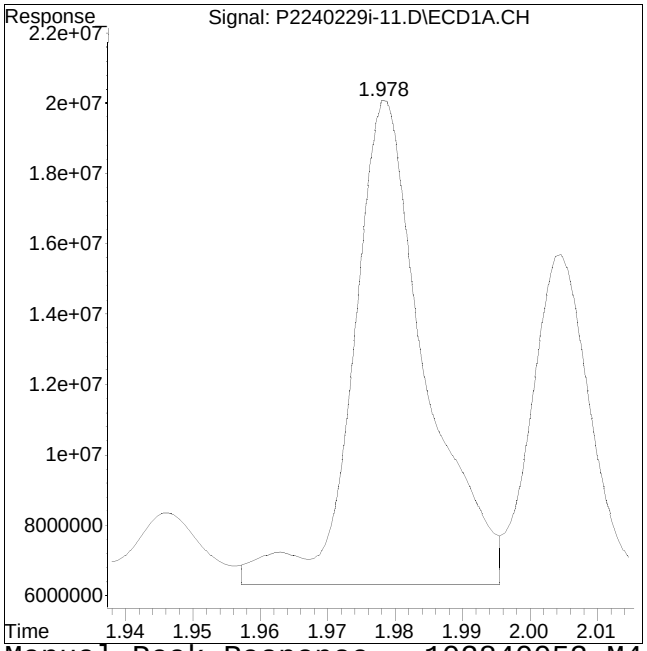
Original Peak Response = 265293278 Manual Peak Response = 237958100 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240229I\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240229i-11.D Operator : pest2:rmp/kb
Date Inj'd : 2/29/2024 1:42 pm Instrument : Pest 2
Sample : il41660,42e,,pp 11447 Quant Date : 2/29/2024 2:44 pm

Compound #7: 1016-4



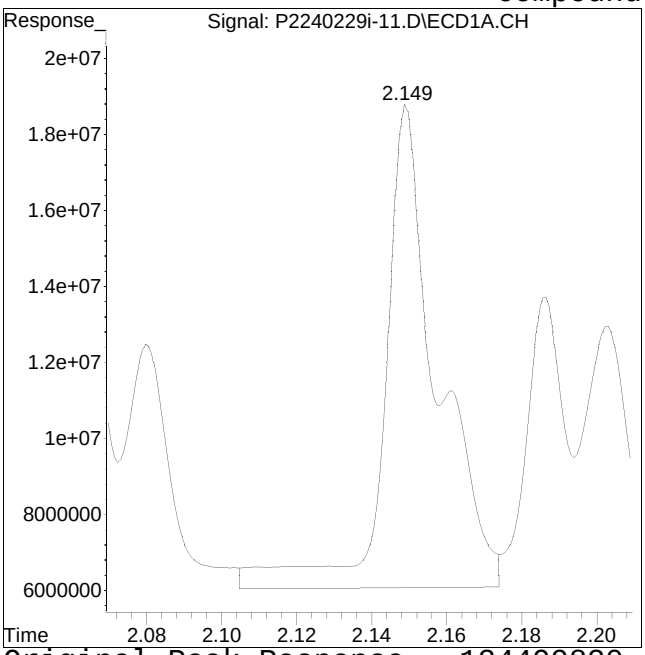


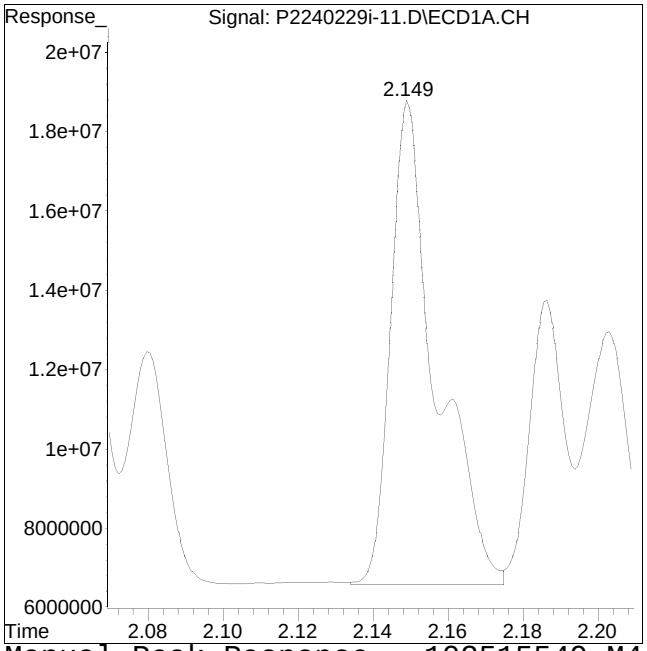
Original Peak Response = 111228818 Manual Peak Response = 102840053 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240229I\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240229i-11.D Operator : pest2:rmp/kb
Date Inj'd : 2/29/2024 1:42 pm Instrument : Pest 2
Sample : il41660,42e,,pp 11447 Quant Date : 2/29/2024 2:44 pm

Compound #8: 1016-5



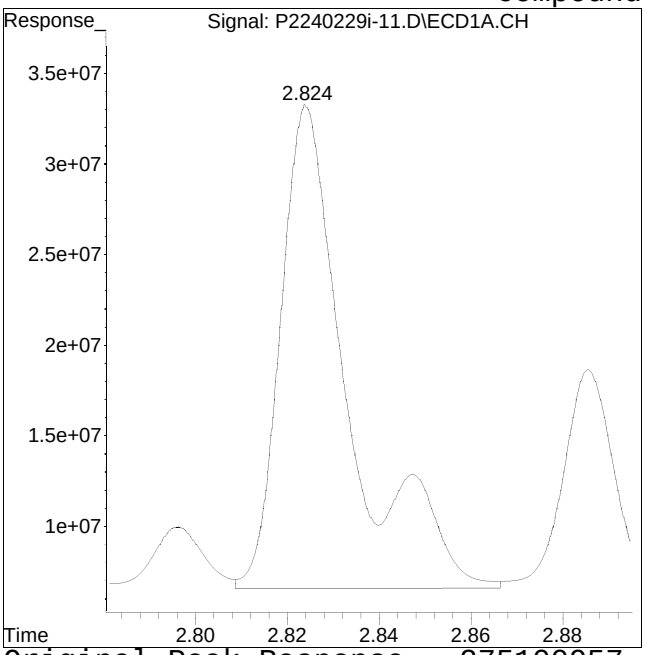


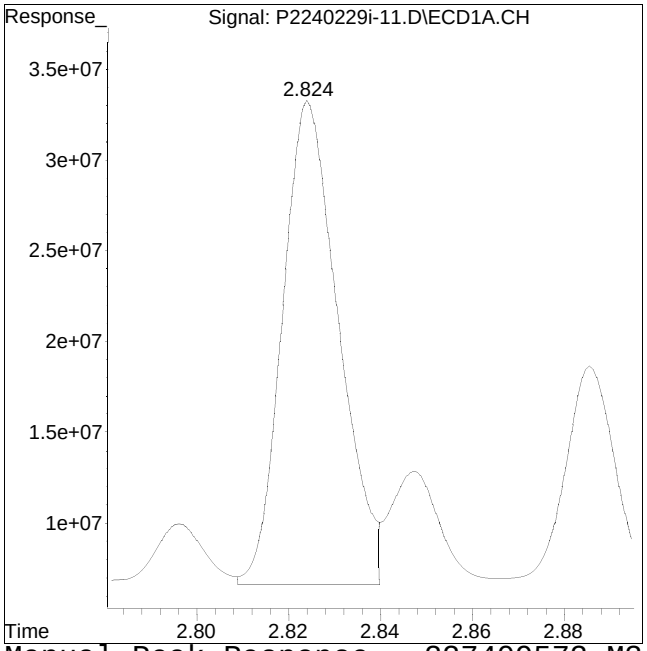
Original Peak Response = 124499820 Manual Peak Response = 102515549 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240229I\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240229i-11.D Operator : pest2:rmp/kb
Date Inj'd : 2/29/2024 1:42 pm Instrument : Pest 2
Sample : il41660,42e,,pp 11447 Quant Date : 2/29/2024 2:44 pm

Compound #10: 1260-2



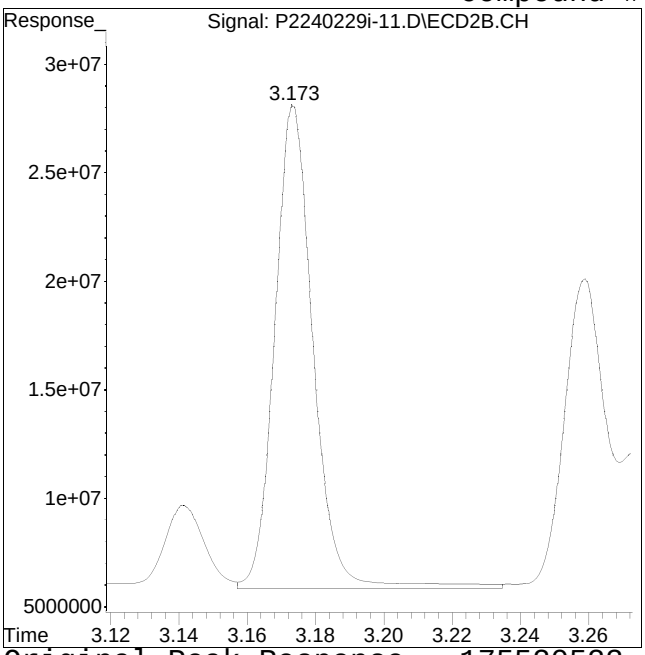


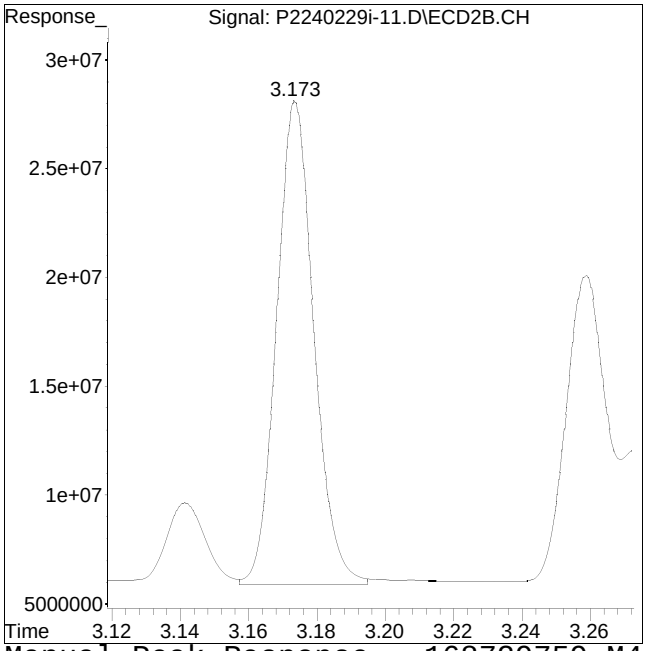
Original Peak Response = 275100957 Manual Peak Response = 227409573 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240229I\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240229i-11.D Operator : pest2:rmp/kb
Date Inj'd : 2/29/2024 1:42 pm Instrument : Pest 2
Sample : il41660,42e,,pp 11447 Quant Date : 2/29/2024 2:44 pm

Compound #61: 1260-2 #2



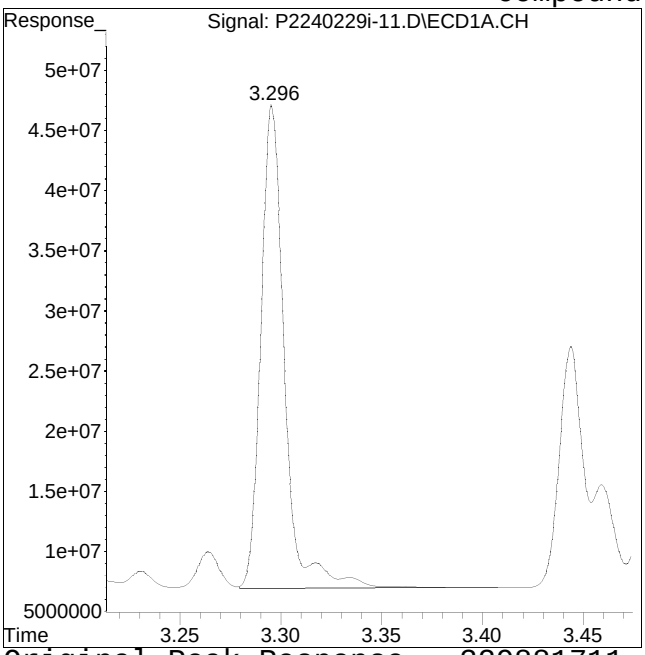


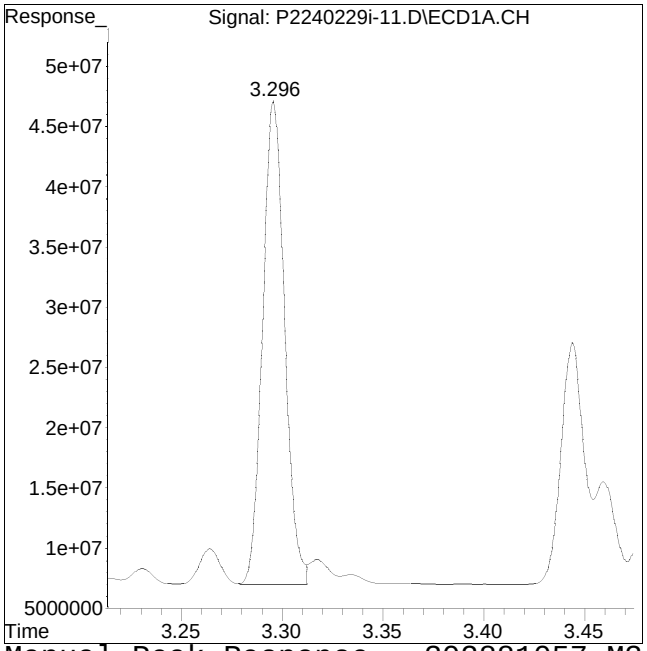
Original Peak Response = 175520523 Manual Peak Response = 168729759 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240229I\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240229i-11.D Operator : pest2:rmp/kb
Date Inj'd : 2/29/2024 1:42 pm Instrument : Pest 2
Sample : il41660,42e,,pp 11447 Quant Date : 2/29/2024 2:44 pm

Compound #12: 1260-4





Original Peak Response = 329881711 Manual Peak Response = 302881057 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240229I\
Data File : P2240229i-12.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Feb 2024 1:52 pm
Operator : pest2:rmp/kb
Sample : il51660,42e,,pp 11447
Misc : WG1891083,, (Sig #1); ,,ical (Sig #2)
ALS Vial : 12 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Feb 29 15:05:44 2024
Quant Method : I:\PCB\Pest2\2024\240229I\P2_pcb_02_29_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Thu Feb 29 14:44:46 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	1.166	1.234	240.2E6	290.7E6	25.000M4	25.000M4
14) i	2154_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
23) i	4268_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
34) i	1248_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
40) i	3262_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.453	1.611	397.9E6	450.6E6	23.709M4	27.938
Spiked Amount	20.000	Range 30 - 150		Recovery =		118.54%	139.69%
3) s	Decachlorobi	4.029	4.551	537.7E6	447.1E6	60.108	54.198
Spiked Amount	20.000	Range 30 - 150		Recovery =		300.54%#	270.99%#
	Target Compounds						
4) l1	1016-1	1.592	1.814	100.9E6	118.7E6	183.099M4	289.026
5) l1	1016-2	1.734	1.985	213.6E6	252.5E6	259.055M4	277.584M4
6) l1	1016-3	1.923	2.188	472.9E6	523.3E6	394.570M4	405.939
7) l1	1016-4	1.979	2.248	196.0E6	207.3E6	302.077M1	359.469
8) l1	1016-5	2.149	2.460	201.9E6	162.4E6	331.116M4	287.417
Sum	1016-1			1185.3E6	1264.1E6	1469.918	1619.436
Average	1016-1					293.984	323.887
9) l2	1260-1	2.694	3.072	295.8E6	285.0E6	347.083	345.011
10) l2	1260-2	2.825	3.174	446.9E6	332.3E6	363.509	304.756M4
11) l2	1260-3	3.141	3.568	285.2E6	272.7E6	376.768	207.866M4
12) l2	1260-4	3.297	3.698	616.2E6	565.5E6	482.643	344.744M4
13) l2	1260-5	3.445	3.900	442.1E6	385.4E6	549.003	399.180M4
Sum	1260-1			2086.1E6	1840.8E6	NoCal	NoCal D
Average	1260-1					423.801	320.311
15) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PCB\Pest2\2024\240229I\
Data File : P2240229i-12.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Feb 2024 1:52 pm
Operator : pest2:rmp/kb
Sample : il51660,42e,,pp 11447
Misc : WG1891083,, (Sig #1); ,,ical (Sig #2)
ALS Vial : 12 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Feb 29 15:05:44 2024
Quant Method : I:\PCB\Pest2\2024\240229I\P2_pcb_02_29_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Thu Feb 29 14:44:46 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
16) l3	1221-3	0.000	0.000	0	0	N.D. d	N.D. d
17) l3	1221-4	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1221-2			0	0	N.D.	N.D.
Average	1221-2					0.000	0.000
18) l4	1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4	1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4	1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4	1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4	1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254-1			0	0	N.D.	N.D.
Average	1254-1					0.000	0.000
24) l6	1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6	1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6	1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6	1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6	1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242-1			0	0	N.D.	N.D.
Average	1242-1					0.000	0.000
29) l9	1268-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l9	1268-2	0.000	0.000	0	0	N.D. d	N.D. d
31) l9	1268-3	0.000	0.000	0	0	N.D. d	N.D. d
32) l9	1268-4	0.000	0.000	0	0	N.D. d	N.D. d
33) l9	1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1268-1			0	0	N.D.	N.D.
Average	1268-1					0.000	0.000
35) l7	1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7	1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7	1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7	1248-4	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240229I\
Data File : P2240229i-12.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Feb 2024 1:52 pm
Operator : pest2:rmp/kb
Sample : il51660,42e,,pp 11447
Misc : WG1891083,, (Sig #1); ,,ical (Sig #2)
ALS Vial : 12 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Feb 29 15:05:44 2024
Quant Method : I:\PCB\Pest2\2024\240229I\P2_pcb_02_29_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Thu Feb 29 14:44:46 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
39) l7	1248-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1248-1			0	0	N.D.	N.D.
Average	1248-1					0.000	0.000
41) l5	1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5	1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5	1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5	1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5	1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1232-1			0	0	N.D.	N.D.
Average	1232-1					0.000	0.000
46) l8	1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8	1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8	1262-3	0.000	0.000	0	0	N.D. d	N.D. d
49) l8	1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50) l8	1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

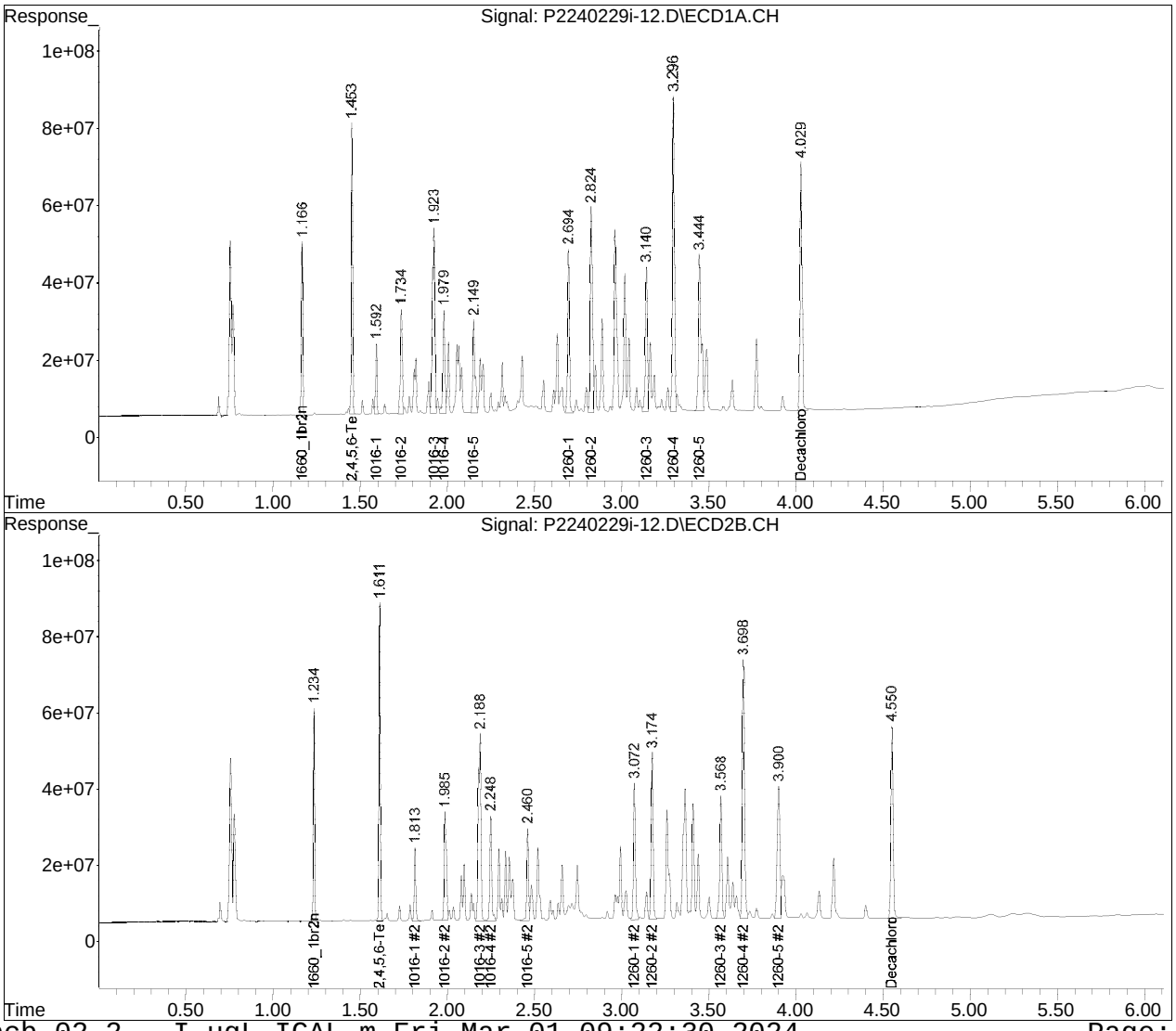
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PCB\Pest2\2024\240229I\
Data File : P2240229i-12.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Feb 2024 1:52 pm
Operator : pest2:rmp/kb
Sample : il51660,42e,,pp 11447
Misc : WG1891083,, (Sig #1); ,,ical (Sig #2)
ALS Vial : 12 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Feb 29 15:05:44 2024
Quant Method : I:\PCB\Pest2\2024\240229I\P2_pcb_02_29_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Thu Feb 29 14:44:46 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

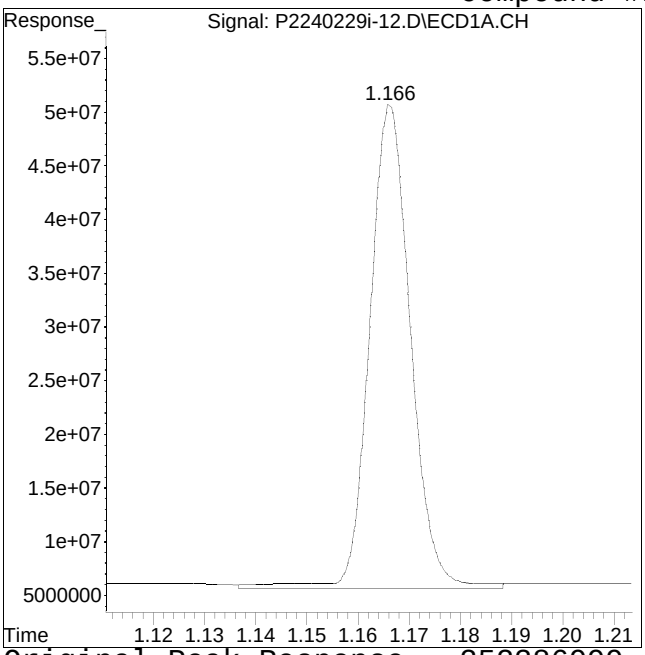
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

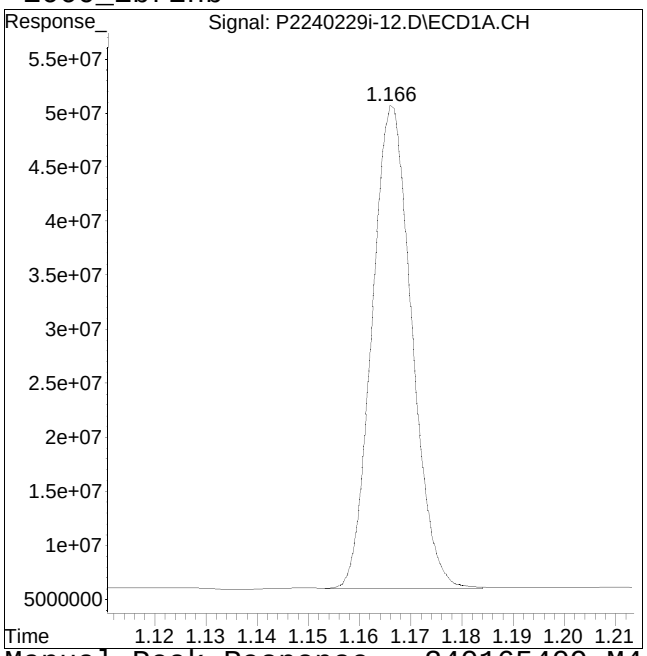


Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240229I\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240229i-12.D Operator : pest2:rmp/kb
Date Inj'd : 2/29/2024 1:52 pm Instrument : Pest 2
Sample : il51660,42e,,pp 11447 Quant Date : 2/29/2024 2:44 pm

Compound #1: 1660_1br2nb



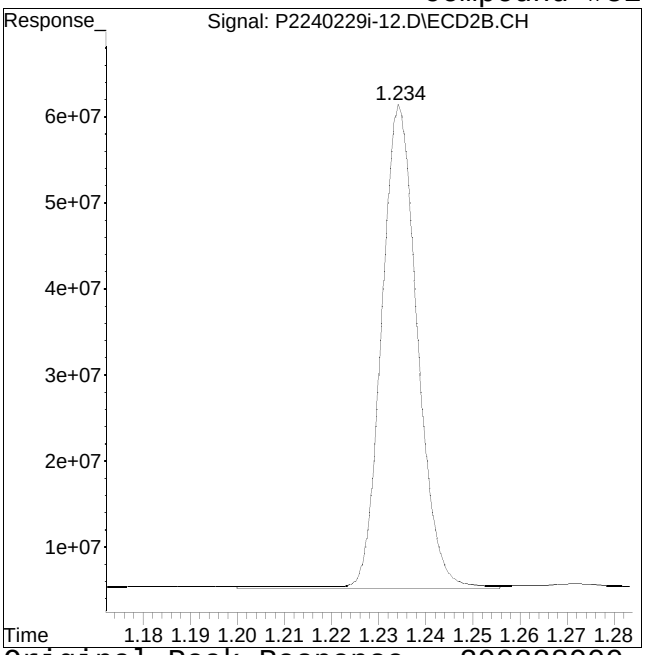


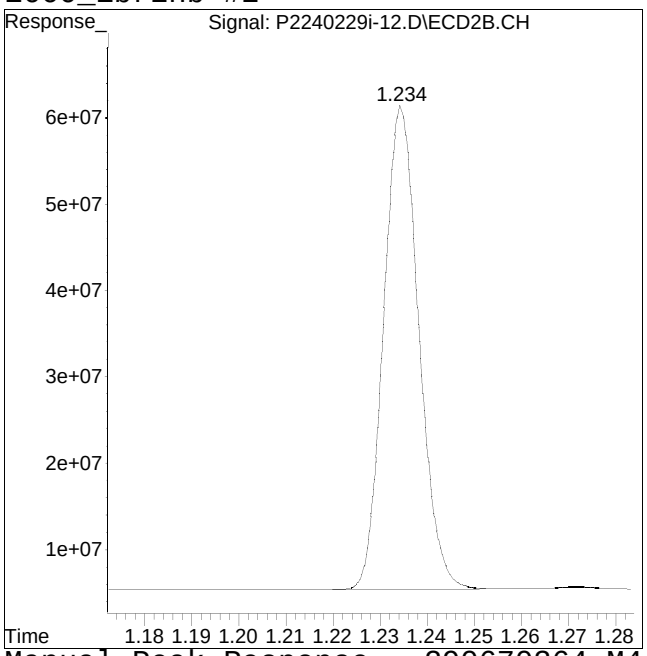
Original Peak Response = 252386999 Manual Peak Response = 240165409 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240229I\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240229i-12.D Operator : pest2:rmp/kb
Date Inj'd : 2/29/2024 1:52 pm Instrument : Pest 2
Sample : il51660,42e,,pp 11447 Quant Date : 2/29/2024 2:44 pm

Compound #52: 1660_1br2nb #2



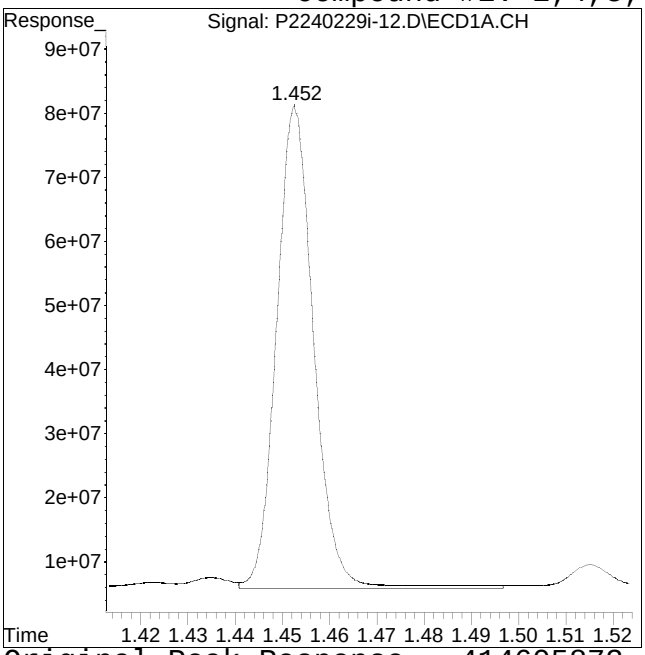


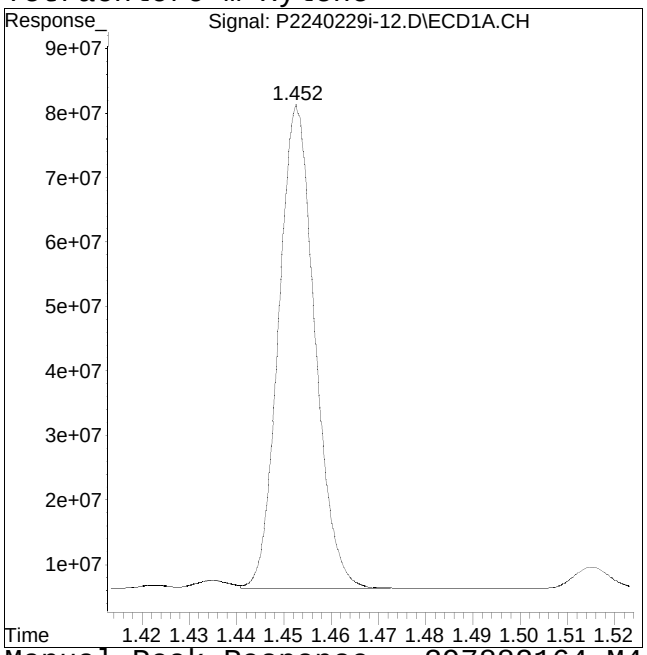
Original Peak Response = 299328900 Manual Peak Response = 290670364 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240229I\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240229i-12.D Operator : pest2:rmp/kb
Date Inj'd : 2/29/2024 1:52 pm Instrument : Pest 2
Sample : il51660,42e,,pp 11447 Quant Date : 2/29/2024 2:44 pm

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



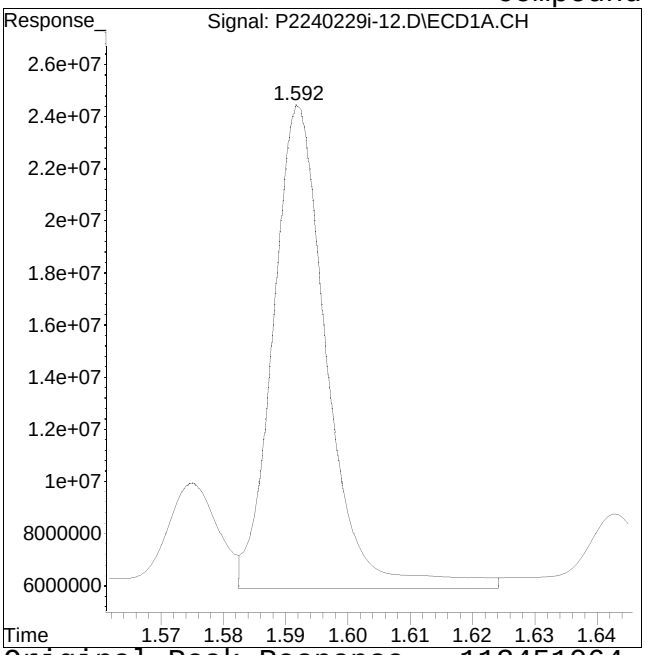


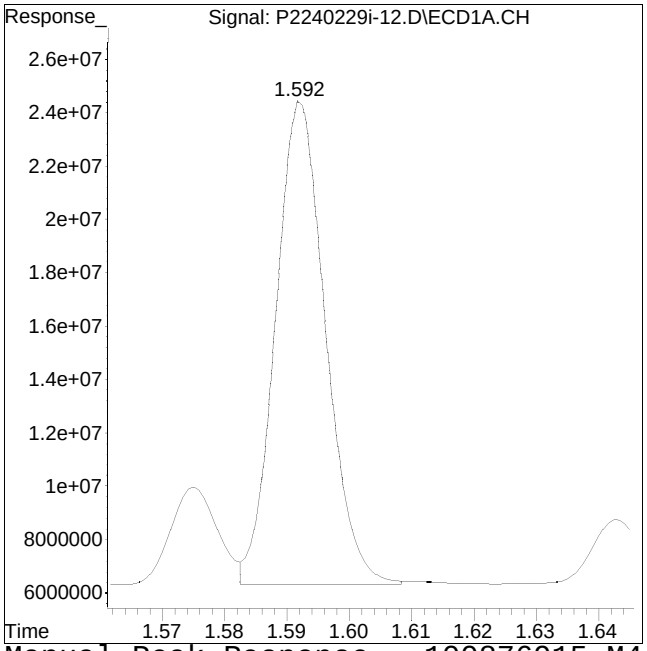
Original Peak Response = 414605873 Manual Peak Response = 397882164 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240229I\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240229i-12.D Operator : pest2:rmp/kb
Date Inj'd : 2/29/2024 1:52 pm Instrument : Pest 2
Sample : il51660,42e,,pp 11447 Quant Date : 2/29/2024 2:44 pm

Compound #4: 1016-1



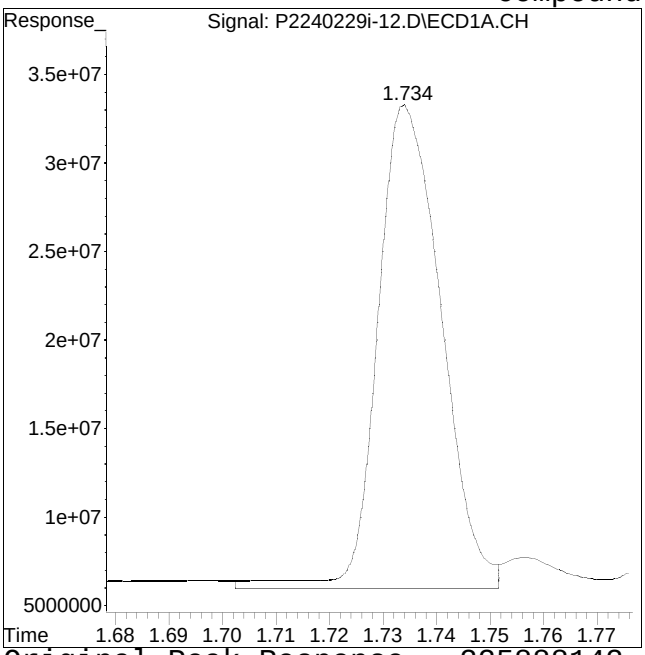


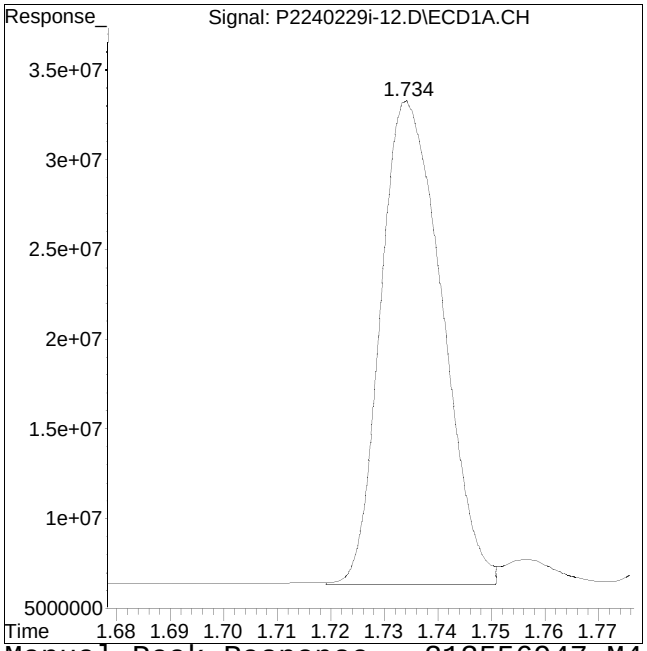
Original Peak Response = 112451064 Manual Peak Response = 100876915 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240229I\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240229i-12.D Operator : pest2:rmp/kb
Date Inj'd : 2/29/2024 1:52 pm Instrument : Pest 2
Sample : il51660,42e,,pp 11447 Quant Date : 2/29/2024 2:44 pm

Compound #5: 1016-2



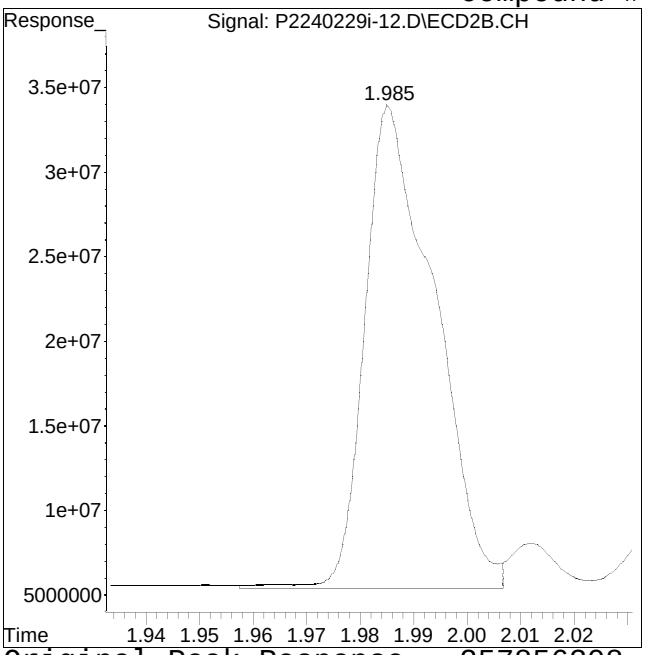


Original Peak Response = 225888142 Manual Peak Response = 213556947 M4
M4 = Poor automated baseline construction.

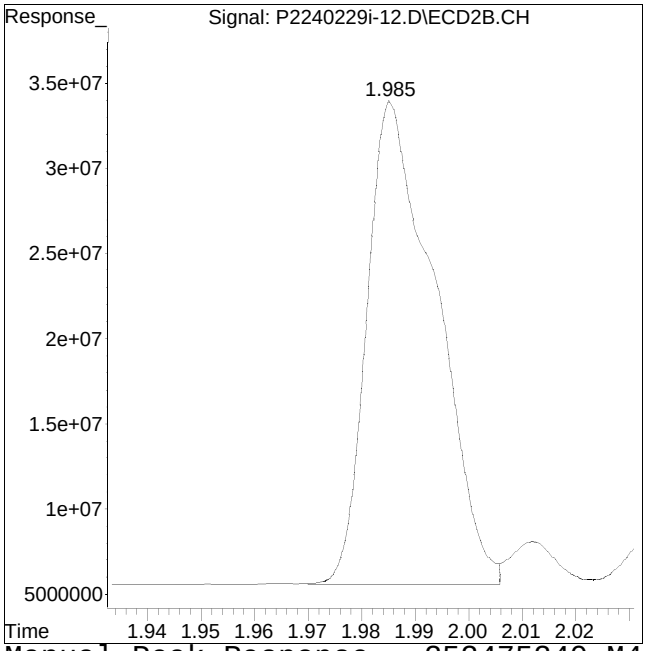
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240229I\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240229i-12.D Operator : pest2:rmp/kb
Date Inj'd : 2/29/2024 1:52 pm Instrument : Pest 2
Sample : il51660,42e,,pp 11447 Quant Date : 2/29/2024 2:44 pm

Compound #56: 1016-2 #2



Original Peak Response = 257856308



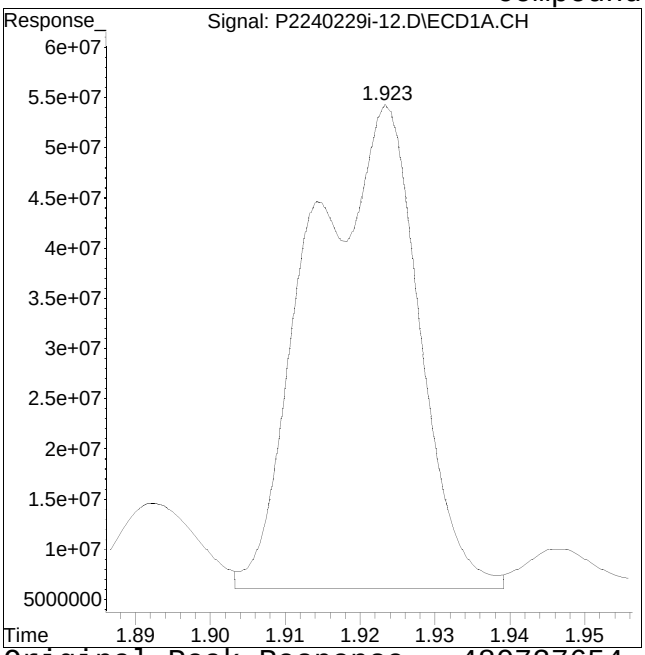
Manual Peak Response = 252475240 M4

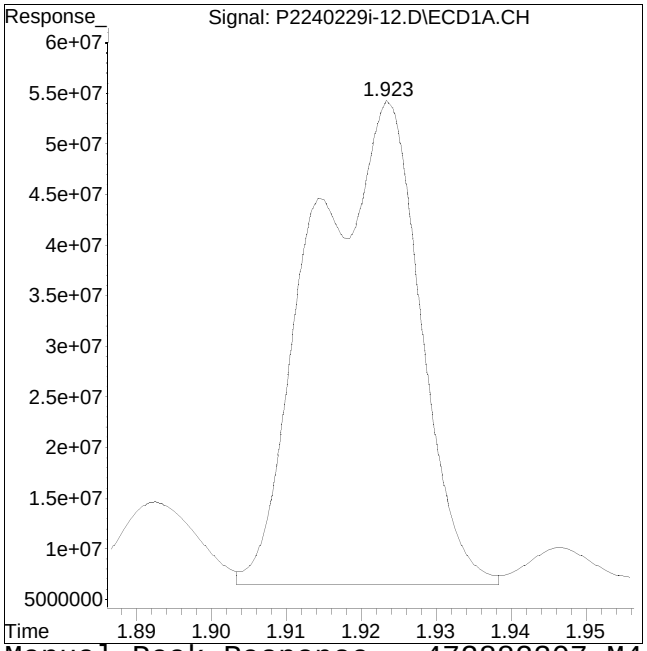
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240229I\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240229i-12.D Operator : pest2:rmp/kb
Date Inj'd : 2/29/2024 1:52 pm Instrument : Pest 2
Sample : il51660,42e,,pp 11447 Quant Date : 2/29/2024 2:44 pm

Compound #6: 1016-3



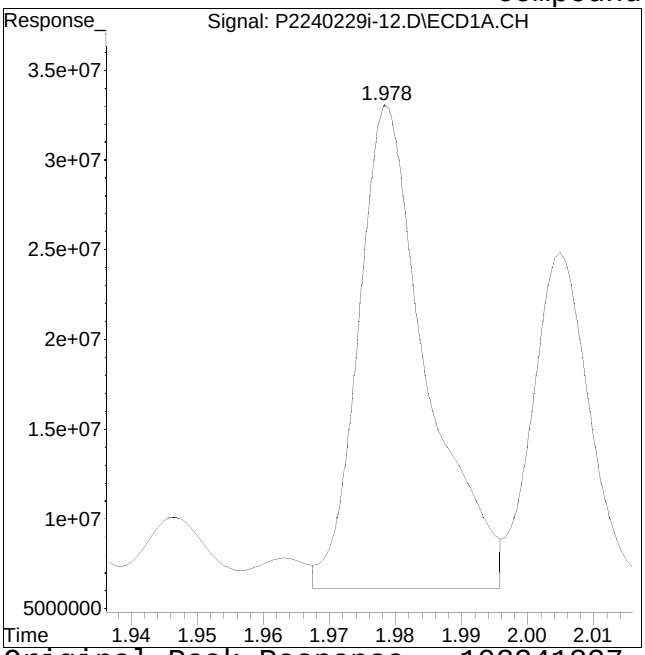


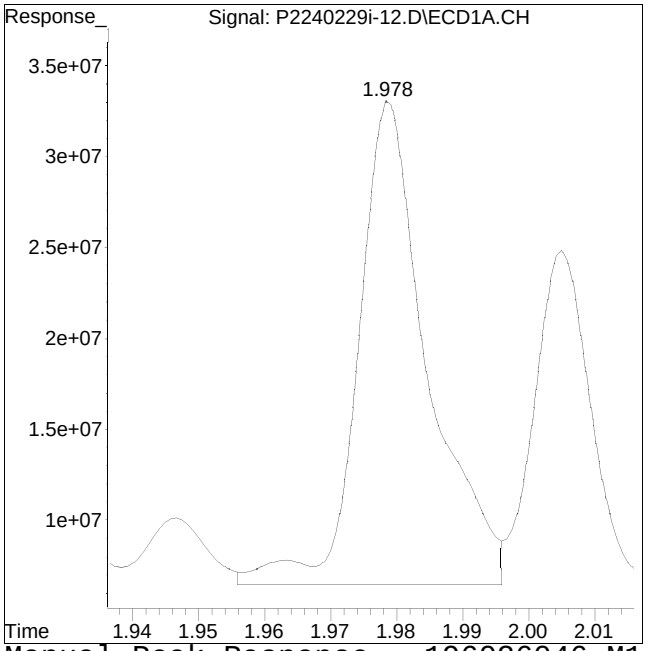
Original Peak Response = 480737654 Manual Peak Response = 472882307 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240229I\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240229i-12.D Operator : pest2:rmp/kb
Date Inj'd : 2/29/2024 1:52 pm Instrument : Pest 2
Sample : il51660,42e,,pp 11447 Quant Date : 2/29/2024 2:44 pm

Compound #7: 1016-4



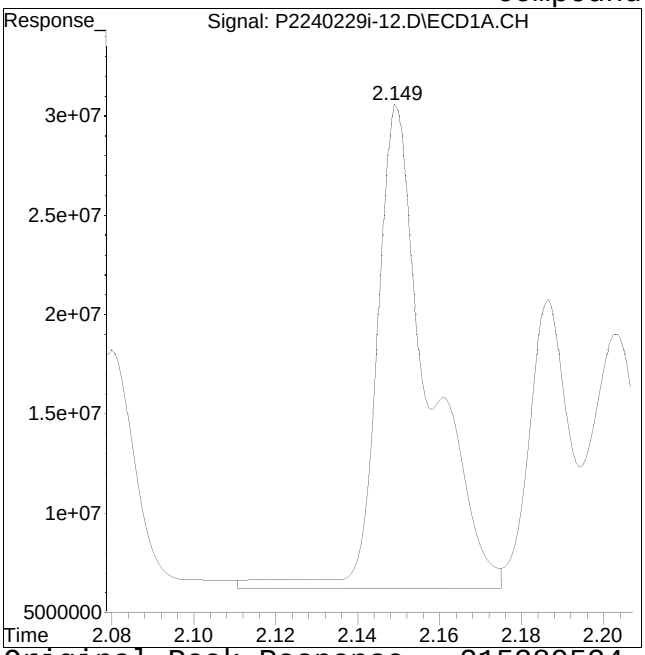


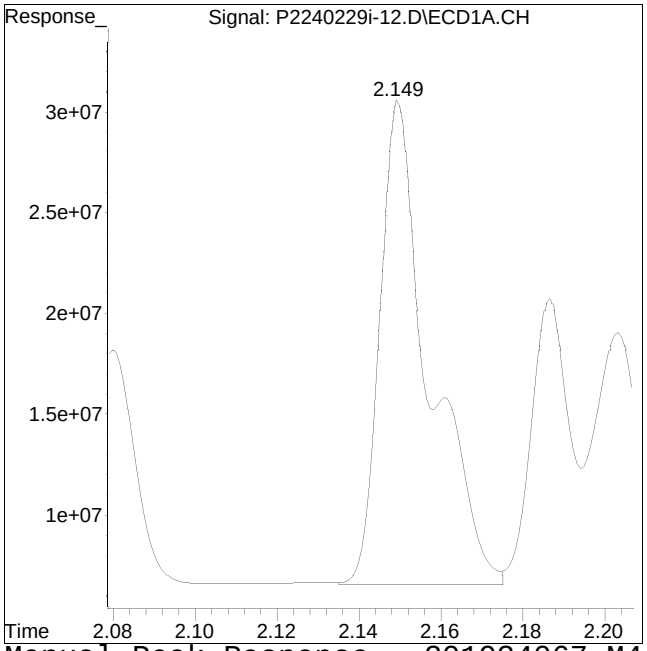
Original Peak Response = 193341327 Manual Peak Response = 196026046 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240229I\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240229i-12.D Operator : pest2:rmp/kb
Date Inj'd : 2/29/2024 1:52 pm Instrument : Pest 2
Sample : il51660,42e,,pp 11447 Quant Date : 2/29/2024 2:44 pm

Compound #8: 1016-5



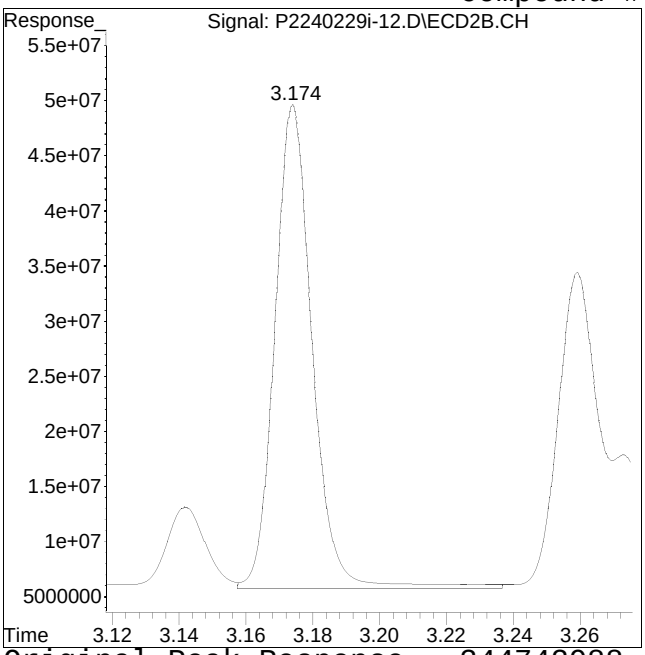


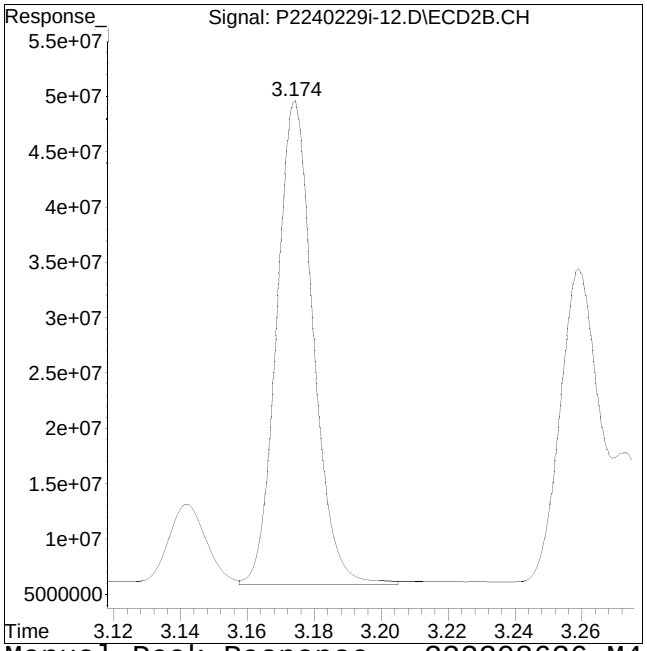
Original Peak Response = 215389524 Manual Peak Response = 201934067 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240229I\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240229i-12.D Operator : pest2:rmp/kb
Date Inj'd : 2/29/2024 1:52 pm Instrument : Pest 2
Sample : il51660,42e,,pp 11447 Quant Date : 2/29/2024 2:44 pm

Compound #61: 1260-2 #2



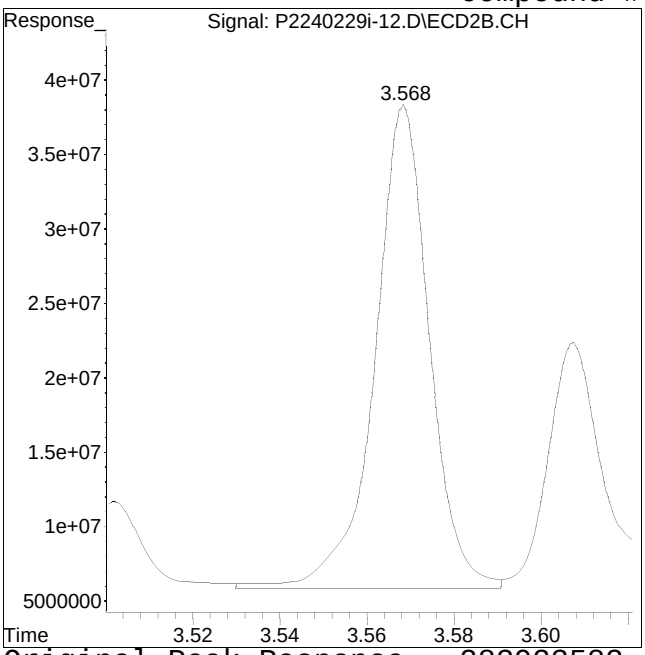


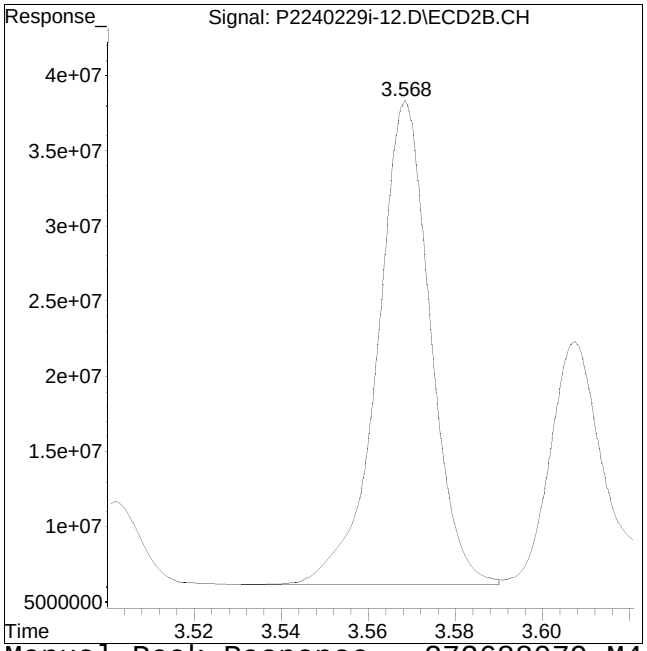
Original Peak Response = 344742988 Manual Peak Response = 332308636 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240229I\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240229i-12.D Operator : pest2:rmp/kb
Date Inj'd : 2/29/2024 1:52 pm Instrument : Pest 2
Sample : il51660,42e,,pp 11447 Quant Date : 2/29/2024 2:44 pm

Compound #62: 1260-3 #2



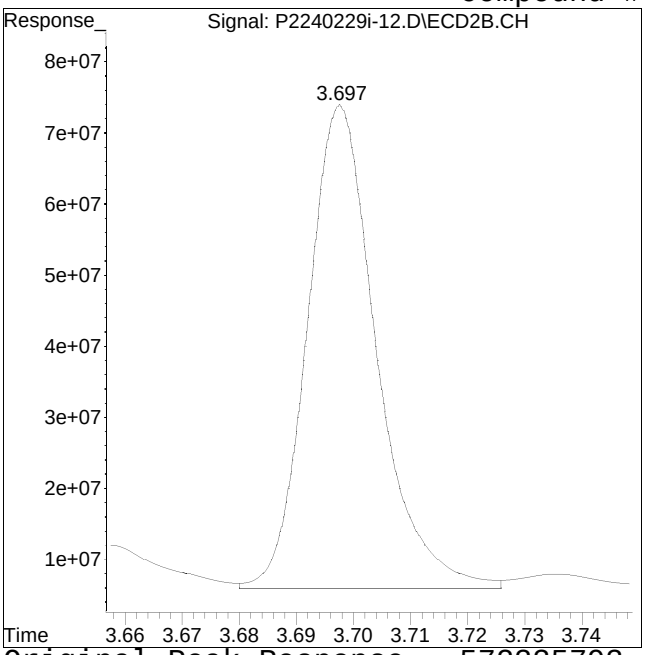


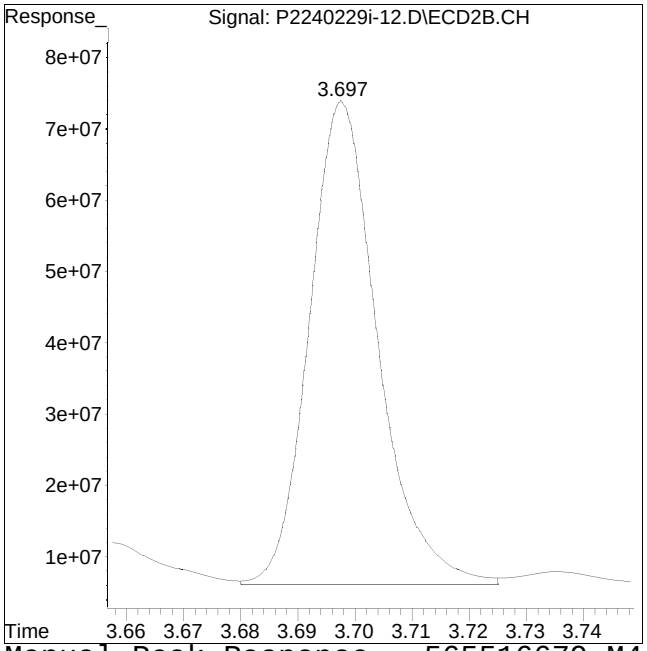
Original Peak Response = 283923583 Manual Peak Response = 272688079 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240229I\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240229i-12.D Operator : pest2:rmp/kb
Date Inj'd : 2/29/2024 1:52 pm Instrument : Pest 2
Sample : il51660,42e,,pp 11447 Quant Date : 2/29/2024 2:44 pm

Compound #63: 1260-4 #2



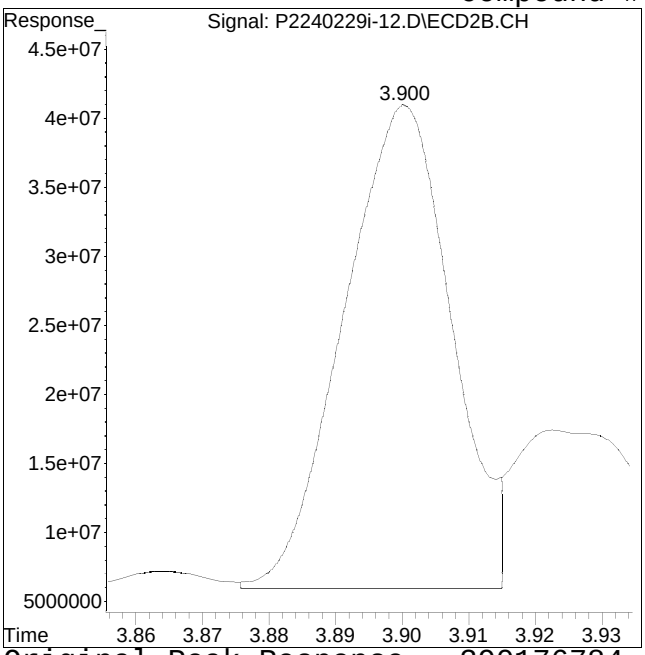


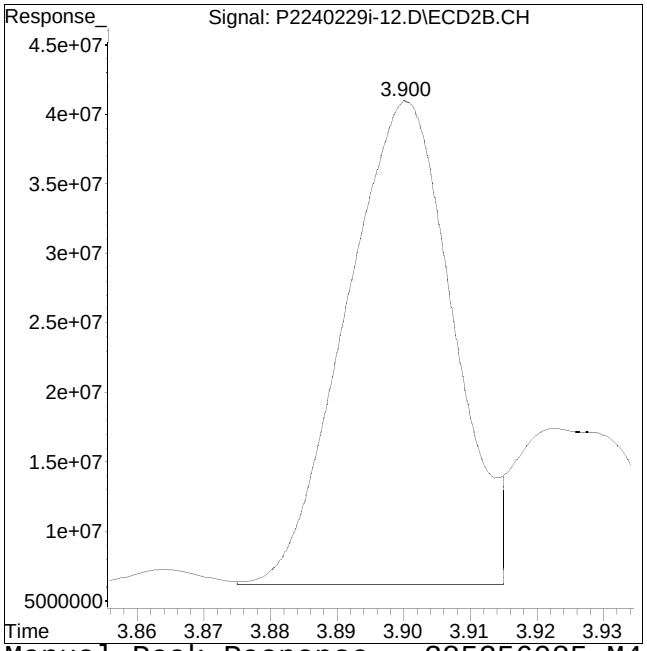
Original Peak Response = 572335793 Manual Peak Response = 565516679 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240229I\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240229i-12.D Operator : pest2:rmp/kb
Date Inj'd : 2/29/2024 1:52 pm Instrument : Pest 2
Sample : il51660,42e,,pp 11447 Quant Date : 2/29/2024 2:44 pm

Compound #64: 1260-5 #2





Original Peak Response = 390176784 Manual Peak Response = 385356085 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240229I\
Data File : P2240229i-13.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Feb 2024 2:01 pm
Operator : pest2:rmp/kb
Sample : il61660,42e,,pp 11447
Misc : WG1891083,, (Sig #1); ,,ical (Sig #2)
ALS Vial : 13 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Feb 29 15:07:40 2024
Quant Method : I:\PCB\Pest2\2024\240229I\P2_pcb_02_29_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Thu Feb 29 14:45:02 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	1.166	1.235	238.5E6	298.7E6	25.000M4	25.000
14) i	2154_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
23) i	4268_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
34) i	1248_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
40) i	3262_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.453	1.611	801.8E6	896.7E6	50.811M4	55.806
	Spiked Amount 20.000	Range 30 - 150		Recovery =		254.06%#	279.03%#
3) s	Decachlorobi	4.029	4.551	1069.6E6	873.8E6	123.022	106.874
	Spiked Amount 20.000	Range 30 - 150		Recovery =		615.11%#	534.37%#
	Target Compounds						
4) l1	1016-1	1.592	1.814	197.2E6	222.7E6	410.631M4	578.597
5) l1	1016-2	1.734	1.986	406.9E6	486.8E6	549.717M4	572.332
6) l1	1016-3	1.924	2.188	937.7E6	1007.7E6	827.065	794.481
7) l1	1016-4	1.979	2.248	388.7E6	399.8E6	660.376	718.202
8) l1	1016-5	2.150	2.460	405.0E6	320.5E6	715.686	605.470
	Sum 1016-1			2335.5E6	2437.4E6	3163.474	3269.082
Average	1016-1					632.695	653.816
9) l2	1260-1	2.694	3.071	576.9E6	536.4E6	731.457	676.782M4
10) l2	1260-2	2.825	3.173	875.3E6	631.6E6	764.132	610.950M4
11) l2	1260-3	3.141	3.568	563.7E6	539.7E6	794.931	452.896
12) l2	1260-4	3.296	3.698	1225.2E6	1110.7E6	982.416M3	704.432
13) l2	1260-5	3.445	3.901	885.3E6	760.5E6	1097.226	801.169
	Sum 1260-1			4126.3E6	3579.0E6	NoCal	NoCal D
Average	1260-1					874.032	649.246
15) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d
16) l3	1221-3	0.000	0.000	0	0	N.D. d	N.D. d
17) l3	1221-4	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240229I\
Data File : P2240229i-13.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Feb 2024 2:01 pm
Operator : pest2:rmp/kb
Sample : il61660,42e,,pp 11447
Misc : WG1891083,, (Sig #1); ,,ical (Sig #2)
ALS Vial : 13 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Feb 29 15:07:40 2024
Quant Method : I:\PCB\Pest2\2024\240229I\P2_pcb_02_29_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Thu Feb 29 14:45:02 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Sum	1221-2			0	0	N.D.	N.D.
Average	1221-2					0.000	0.000
18) l4	1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4	1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4	1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4	1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4	1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254-1			0	0	N.D.	N.D.
Average	1254-1					0.000	0.000
24) l6	1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6	1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6	1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6	1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6	1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242-1			0	0	N.D.	N.D.
Average	1242-1					0.000	0.000
29) l9	1268-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l9	1268-2	0.000	0.000	0	0	N.D. d	N.D. d
31) l9	1268-3	0.000	0.000	0	0	N.D. d	N.D. d
32) l9	1268-4	0.000	0.000	0	0	N.D. d	N.D. d
33) l9	1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1268-1			0	0	N.D.	N.D.
Average	1268-1					0.000	0.000
35) l7	1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7	1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7	1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7	1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7	1248-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1248-1			0	0	N.D.	N.D.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240229I\
Data File : P2240229i-13.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Feb 2024 2:01 pm
Operator : pest2:rmp/kb
Sample : il61660,42e,,pp 11447
Misc : WG1891083,, (Sig #1); ,,ical (Sig #2)
ALS Vial : 13 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Feb 29 15:07:40 2024
Quant Method : I:\PCB\Pest2\2024\240229I\P2_pcb_02_29_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Thu Feb 29 14:45:02 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound		RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Average	1248-1					0.000	0.000
41) l5	1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5	1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5	1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5	1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5	1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1232-1			0	0	N.D.	N.D.
Average	1232-1					0.000	0.000
46) l8	1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8	1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8	1262-3	0.000	0.000	0	0	N.D. d	N.D. d
49) l8	1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50) l8	1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument							
Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

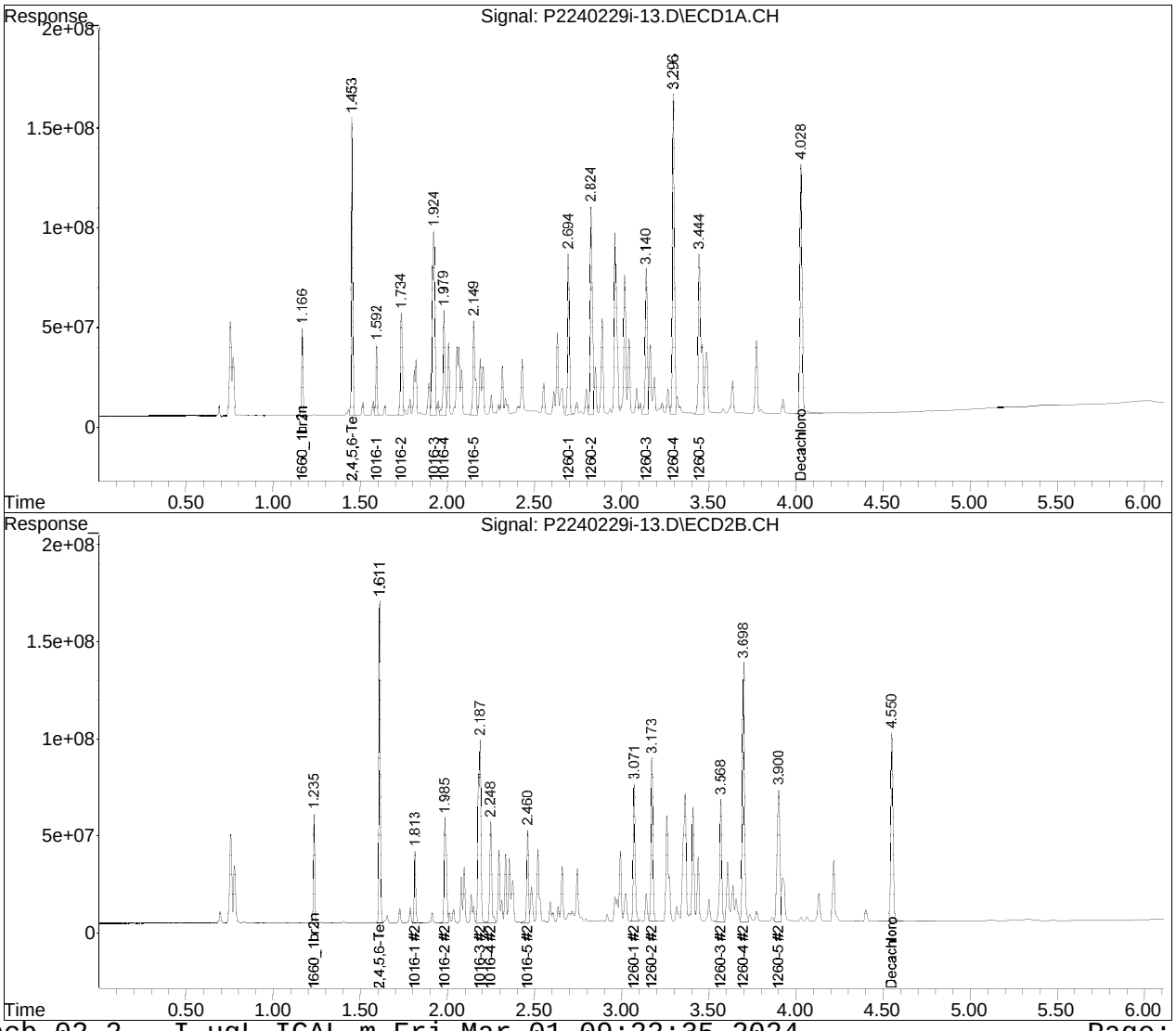
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PCB\Pest2\2024\240229I\
Data File : P2240229i-13.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Feb 2024 2:01 pm
Operator : pest2:rmp/kb
Sample : il61660,42e,,pp 11447
Misc : WG1891083,, (Sig #1); ,,ical (Sig #2)
ALS Vial : 13 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Feb 29 15:07:40 2024
Quant Method : I:\PCB\Pest2\2024\240229I\P2_pcb_02_29_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Thu Feb 29 14:45:02 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

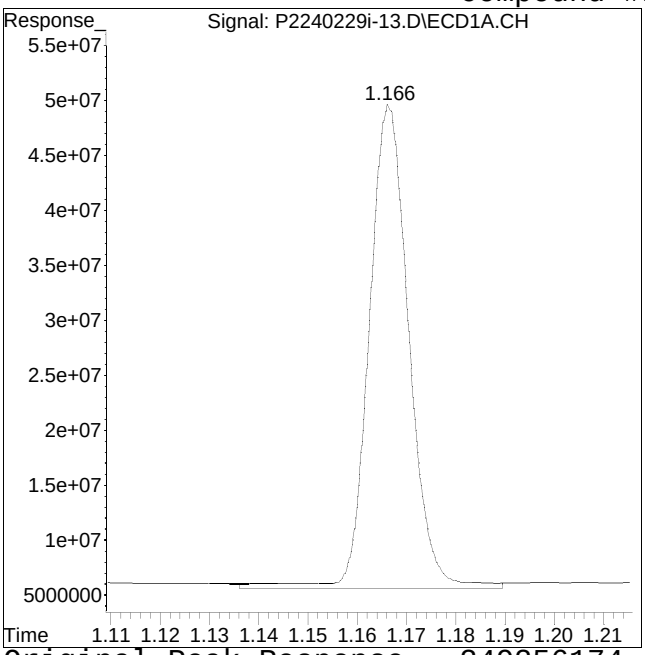
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

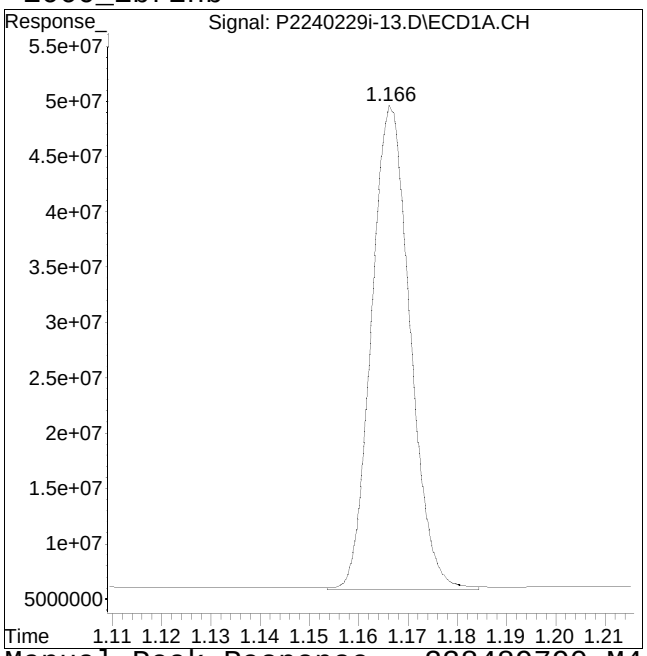


Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240229I\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240229i-13.D Operator : pest2:rmp/kb
Date Inj'd : 2/29/2024 2:01 pm Instrument : Pest 2
Sample : il61660,42e,,pp 11447 Quant Date : 2/29/2024 2:45 pm

Compound #1: 1660_1br2nb



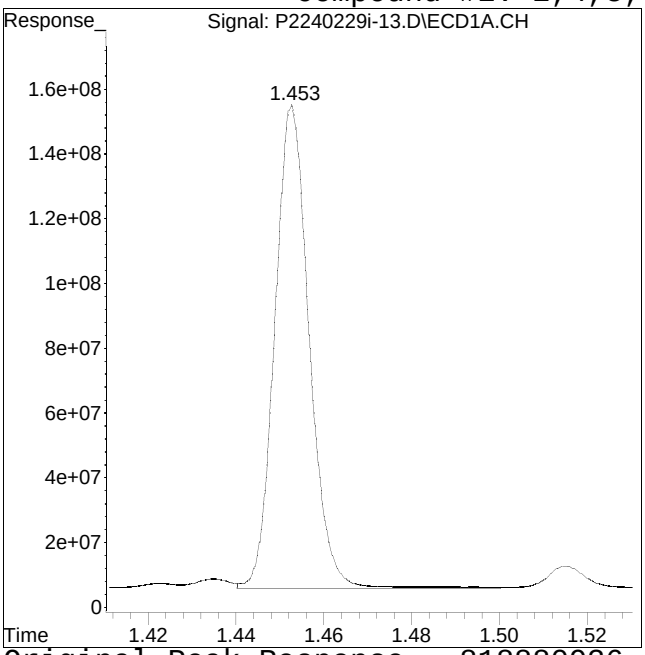


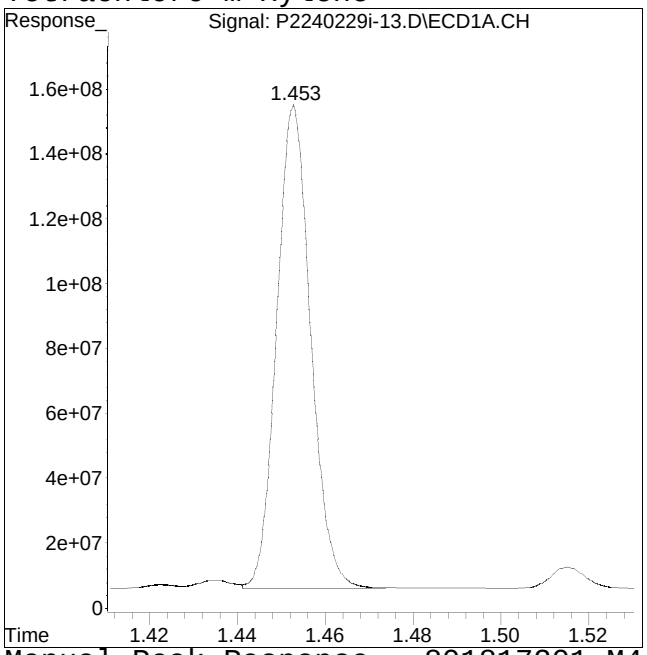
Original Peak Response = 249256174 Manual Peak Response = 238489790 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240229I\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240229i-13.D Operator : pest2:rmp/kb
Date Inj'd : 2/29/2024 2:01 pm Instrument : Pest 2
Sample : il61660,42e,,pp 11447 Quant Date : 2/29/2024 2:45 pm

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



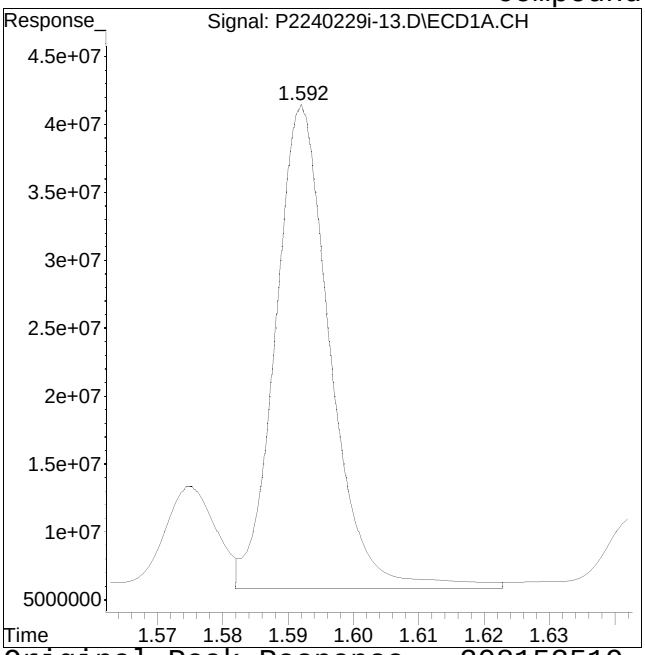


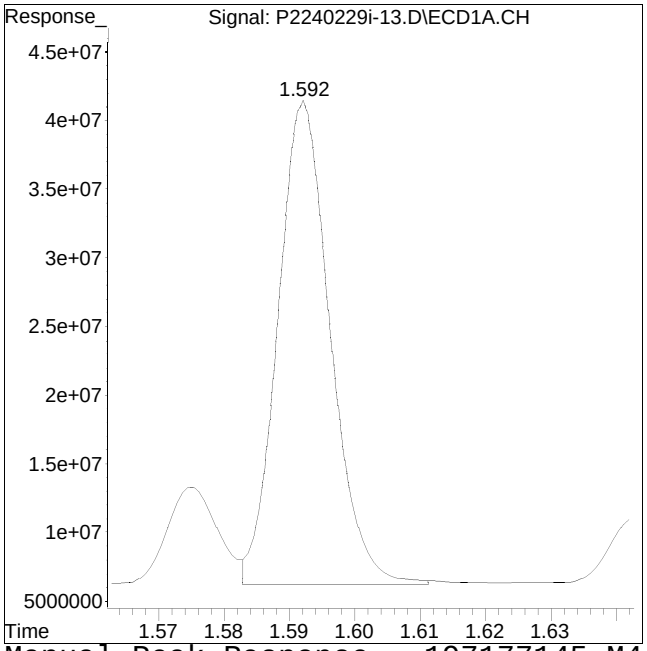
Original Peak Response = 818880936 Manual Peak Response = 801817201 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240229I\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240229i-13.D Operator : pest2:rmp/kb
Date Inj'd : 2/29/2024 2:01 pm Instrument : Pest 2
Sample : il61660,42e,,pp 11447 Quant Date : 2/29/2024 2:45 pm

Compound #4: 1016-1



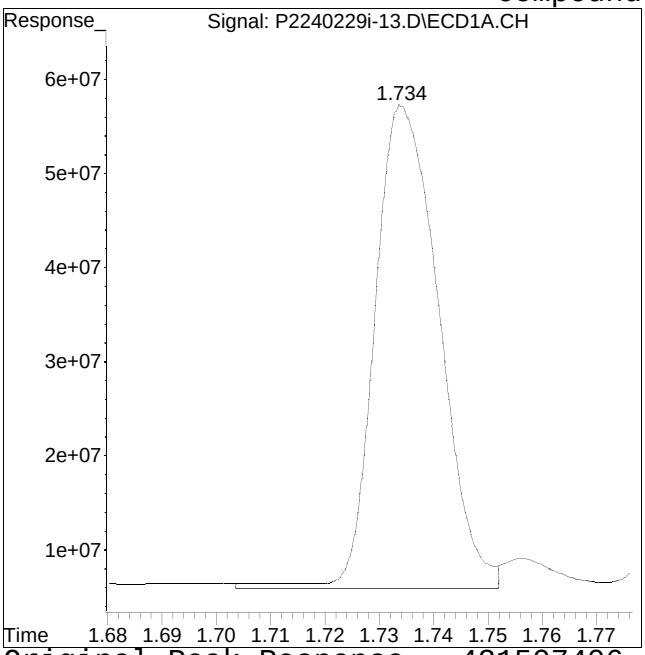


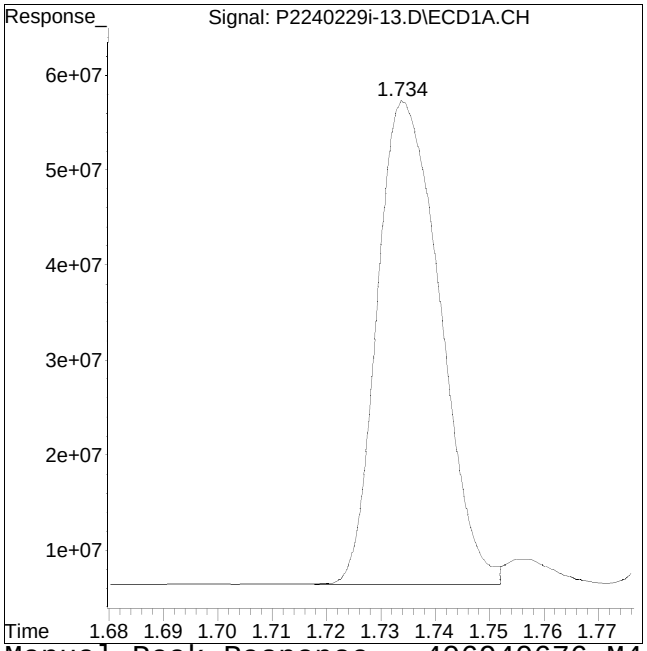
Original Peak Response = 208153519 Manual Peak Response = 197177145 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240229I\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240229i-13.D Operator : pest2:rmp/kb
Date Inj'd : 2/29/2024 2:01 pm Instrument : Pest 2
Sample : il61660,42e,,pp 11447 Quant Date : 2/29/2024 2:45 pm

Compound #5: 1016-2



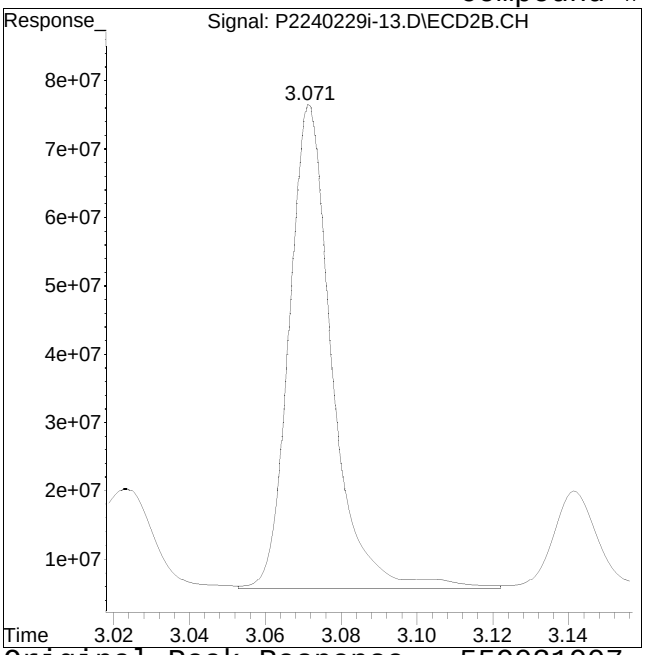


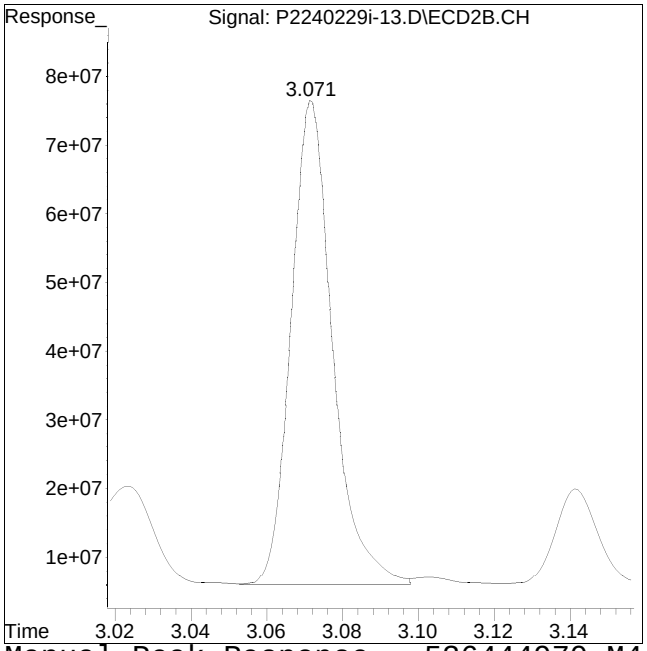
Original Peak Response = 421507406 Manual Peak Response = 406940676 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240229I\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240229i-13.D Operator : pest2:rmp/kb
Date Inj'd : 2/29/2024 2:01 pm Instrument : Pest 2
Sample : il61660,42e,,pp 11447 Quant Date : 2/29/2024 2:45 pm

Compound #60: 1260-1 #2



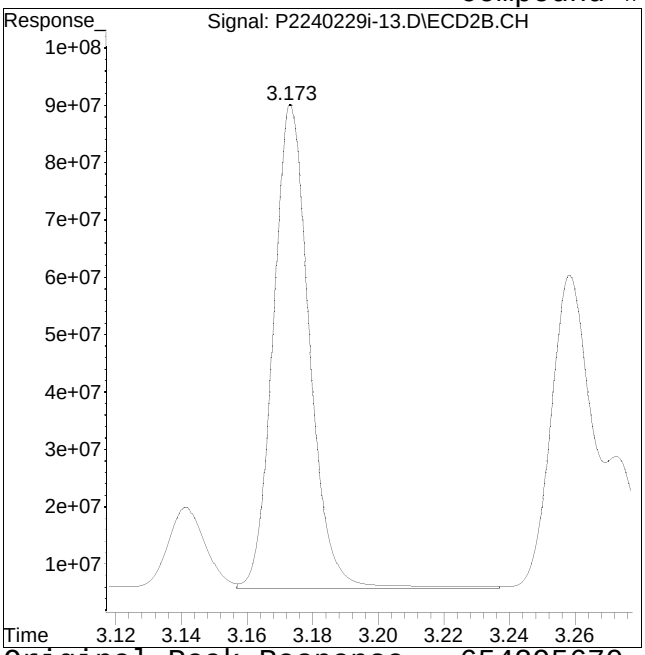


Original Peak Response = 559031907 Manual Peak Response = 536444970 M4
M4 = Poor automated baseline construction.

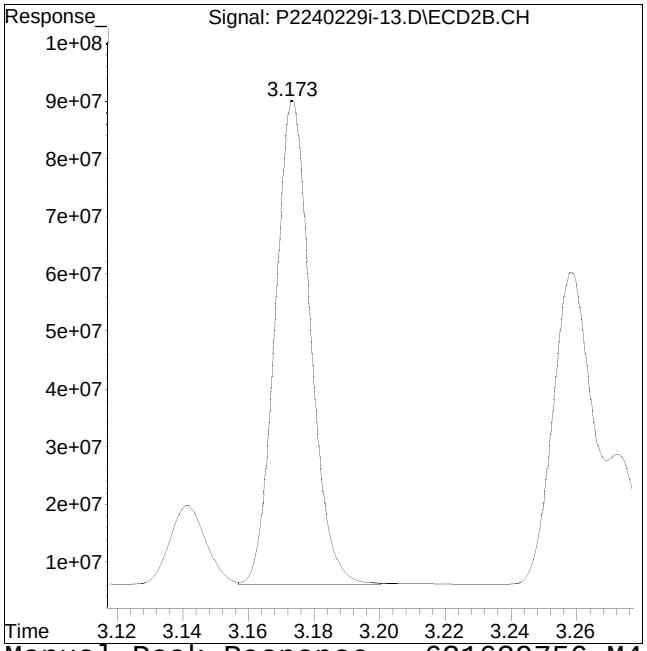
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240229I\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240229i-13.D Operator : pest2:rmp/kb
Date Inj'd : 2/29/2024 2:01 pm Instrument : Pest 2
Sample : il61660,42e,,pp 11447 Quant Date : 2/29/2024 2:45 pm

Compound #61: 1260-2 #2



Original Peak Response = 654295670



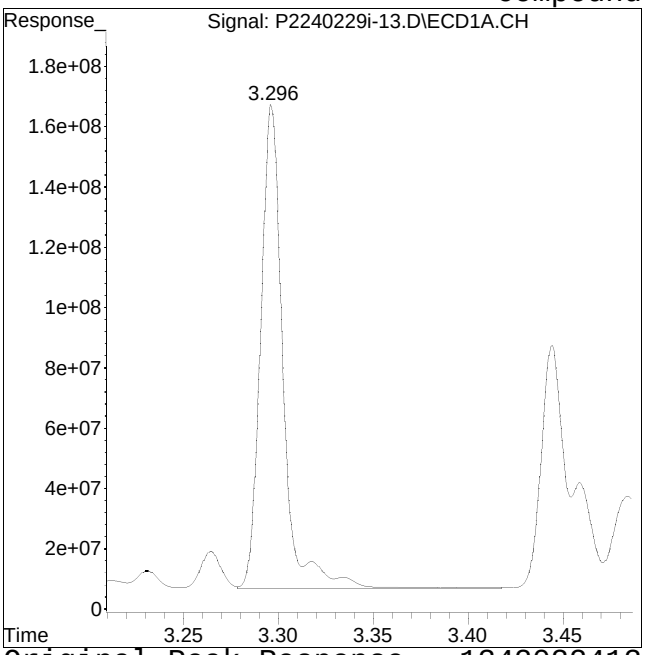
Manual Peak Response = 631639756 M4

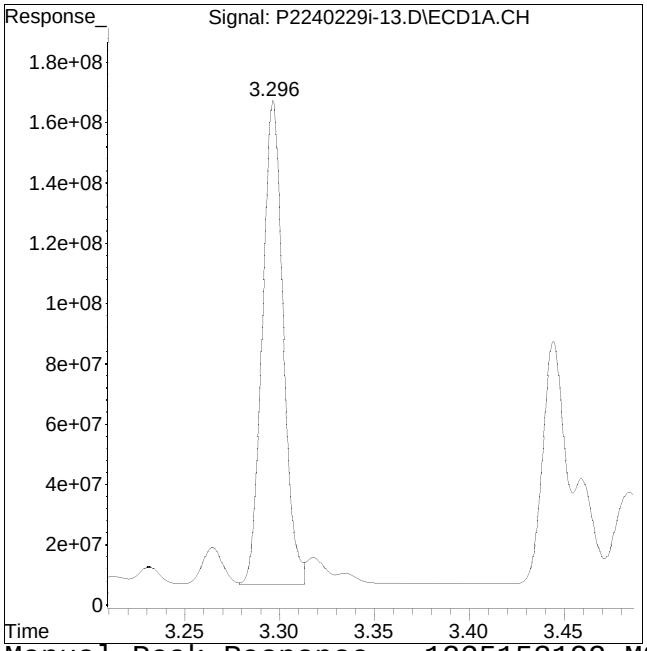
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240229I\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240229i-13.D Operator : pest2:rmp/kb
Date Inj'd : 2/29/2024 2:01 pm Instrument : Pest 2
Sample : il61660,42e,,pp 11447 Quant Date : 2/29/2024 2:45 pm

Compound #12: 1260-4





Original Peak Response = 1342022413 Manual Peak Response = 1225153122 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Initial Calibration Verification

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest2\2024\240229I\
Data File : P2240229i-14.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 29 Feb 2024   2:11 pm
Operator : pest2:rmp/kb
Sample   : cicv4268,42,,pp 11468
Misc   : WG1891083,, (Sig #1); ,,ical (Sig #2)
ALS Vial : 14 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Feb 29 15:33:39 2024
Quant Method : I:\PCB\Pest2\2024\240229I\P2_pcb_02_29_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Thu Feb 29 15:30:13 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
1	i	1660_1br2nb	^	1.000	1.000	0.0	100	0.00
2	s	2,4,5,6-Tetrachloro-m-xylen		1.310	1.174	10.4	89	0.00
3	s	Decachlorobiphenyl		0.949	1.485	-56.5#	165#	0.00
14	i	2154_1br2nb	^	1.000	1.000	0.0	102	0.00
23	i	4268_1br2nb	^	1.000	1.000	0.0	96	0.00
24	l6	1242-1		0.017	0.017	0.0	98	0.00
25	l6	1242-2		0.036	0.036	0.0	95	0.00
26	l6	1242-3		0.077	0.076	1.3	96	0.00
27	l6	1242-4		0.033	0.032	3.0	96	0.00
28	l6	1242-5		0.025	0.025	0.0	97	0.00
29	l9	1268-1		0.165	0.182	-10.3	106	0.00
30	l9	1268-2		0.151	0.158	-4.6	101	0.00
31	l9	1268-3		0.123	0.121	1.6	94	0.00
32	l9	1268-4		0.054	0.052	3.7	93	0.00
33	l9	1268-5		0.386	0.353	8.5	88	0.00
34	i	1248_1br2nb	^	1.000	1.000	0.0	98	0.00
40	i	3262_1br2nb	^	1.000	1.000	0.0	97	0.00

Signal #2

1	i	1660_1br2nb	^	1.000	1.000	0.0	99	0.00
2	s	2,4,5,6-Tetrachloro-m-xyl		1.231	1.099	10.7	89	0.00
3	s	Decachlorobiphenyl		0.663	1.000	-50.8#	161#	0.00
14	i	2154_1br2nb	^	1.000	1.000	0.0	105	0.00

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest2\2024\240229I\
Data File : P2240229i-14.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 29 Feb 2024   2:11 pm
Operator : pest2:rmp/kb
Sample   : cicv4268,42,,pp 11468
Misc   : WG1891083,, (Sig #1); ,,ical (Sig #2)
ALS Vial : 14 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Feb 29 15:33:39 2024
Quant Method : I:\PCB\Pest2\2024\240229I\P2_pcb_02_29_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Thu Feb 29 15:30:13 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
23	i	4268_1br2nb	^	1.000	1.000	0.0	101	0.00
24	l6	1242-1		0.017	0.016	5.9	94	0.00
25	l6	1242-2		0.038	0.036	5.3	96	0.00
26	l6	1242-3		0.072	0.070	2.8	98	0.00
27	l6	1242-4		0.028	0.028	0.0	98	0.00
28	l6	1242-5		0.021	0.021	0.0	106	0.00
29	l9	1268-1		0.121	0.130	-7.4	109	0.00
30	l9	1268-2		0.108	0.116	-7.4	109	0.00
31	l9	1268-3		0.091	0.089	2.2	99	0.00
32	l9	1268-4		0.038	0.039	-2.6	103	0.00
33	l9	1268-5		0.279	0.244	12.5	88	0.00
34	i	1248_1br2nb	^	1.000	1.000	0.0	100	0.00
40	i	3262_1br2nb	^	1.000	1.000	0.0	105	0.00

Evaluate Continuing Calibration Report - Not Founds

4	l1	1016-1	176.793	0.000	E3	100.0#	0#	-1.59#
5	l1	1016-2	327.203	0.000	E3	100.0#	0#	-1.73#
6	l1	1016-3	801.464	0.000	E3	100.0#	0#	-1.92#
7	l1	1016-4	344.339	0.000	E3	100.0#	0#	-1.98#
8	l1	1016-5	355.646	0.000	E3	100.0#	0#	-2.15#
9	l2	1260-1	522.526	0.000	E3	100.0#	0#	-2.69#
10	l2	1260-2	782.966	0.000	E3	100.0#	0#	-2.82#
11	l2	1260-3	489.261	0.000	E3	100.0#	0#	-3.14#
12	l2	1260-4	1.016	0.000	E6	100.0#	0#	-3.30#
13	l2	1260-5	750.560	0.000	E3	100.0#	0#	-3.44#
15	l3	1221-2	0.00043	0.00000		100.0#	0#	-1.51#
16	l3	1221-3	0.00027	0.00000		100.0#	0#	-1.58#
17	l3	1221-4	0.00105	0.00000		100.0#	0#	-1.59#

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest2\2024\240229I\
Data File : P2240229i-14.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 29 Feb 2024   2:11 pm
Operator : pest2:rmp/kb
Sample   : cicv4268,42,,pp 11468
Misc   : WG1891083,, (Sig #1); ,,ical (Sig #2)
ALS Vial : 14 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Feb 29 15:33:39 2024
Quant Method : I:\PCB\Pest2\2024\240229I\P2_pcb_02_29_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Thu Feb 29 15:30:13 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
18 l4	1254-1	0.00148	0.00000	100.0#	0#	-2.31#
19 l4	1254-2	0.00276	0.00000	100.0#	0#	-2.43#
20 l4	1254-3	0.00257	0.00000	100.0#	0#	-2.61#
21 l4	1254-4	0.00198	0.00000	100.0#	0#	-2.74#
22 l4	1254-5	0.00275	0.00000	100.0#	0#	-2.96#
35 l7	1248-1	0.00180	0.00000	100.0#	0#	-1.91#
36 l7	1248-2	0.00233	0.00000	100.0#	0#	-2.05#
37 l7	1248-3	0.00205	0.00000	100.0#	0#	-2.15#
38 l7	1248-4	0.00184	0.00000	100.0#	0#	-2.33#
39 l7	1248-5	0.00158	0.00000	100.0#	0#	-2.34#
41 l5	1232-1	0.00079	0.00000	100.0#	0#	-1.59#
42 l5	1232-2	0.00074	0.00000	100.0#	0#	-1.73#
43 l5	1232-3	0.00149	0.00000	100.0#	0#	-1.92#
44 l5	1232-4	0.00064	0.00000	100.0#	0#	-1.98#
45 l5	1232-5	0.00046	0.00000	100.0#	0#	-2.33#
46 l8	1262-1	0.00230	0.00000	100.0#	0#	-2.82#
47 l8	1262-2	0.00285	0.00000	100.0#	0#	-3.02#
48 l8	1262-3	0.00250	0.00000	100.0#	0#	-3.14#
49 l8	1262-4	0.00487	0.00000	100.0#	0#	-3.30#
50 l8	1262-5	0.00159	0.00000	100.0#	0#	-3.77#

Signal #2

4 l1	1016-1	248.412	0.000 E3	100.0#	0#	-1.81#
5 l1	1016-2	546.543	0.000 E3	100.0#	0#	-1.99#
6 l1	1016-3	1.097	0.000 E6	100.0#	0#	-2.19#
7 l1	1016-4	439.198	0.000 E3	100.0#	0#	-2.25#
8 l1	1016-5	337.039	0.000 E3	100.0#	0#	-2.46#
9 l2	1260-1	586.570	0.000 E3	100.0#	0#	-3.07#
10 l2	1260-2	725.197	0.000 E3	100.0#	0#	-3.17#
11 l2	1260-3	582.049	0.000 E3	100.0#	0#	-3.57#

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest2\2024\240229I\
Data File : P2240229i-14.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 29 Feb 2024   2:11 pm
Operator : pest2:rmp/kb
Sample   : cicv4268,42,,pp 11468
Misc   : WG1891083,, (Sig #1); ,,ical (Sig #2)
ALS Vial : 14 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Feb 29 15:33:39 2024
Quant Method : I:\PCB\Pest2\2024\240229I\P2_pcb_02_29_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Thu Feb 29 15:30:13 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
12 l2	1260-4	1.198	0.000 E6	100.0#	0#	-3.70#
13 l2	1260-5	825.586	0.000 E3	100.0#	0#	-3.90#
15 l3	1221-2	139.447	0.000 E3	100.0#	0#	-1.73#
16 l3	1221-3	87.577	0.000 E3	100.0#	0#	-1.79#
17 l3	1221-4	321.880	0.000 E3	100.0#	0#	-1.81#
18 l4	1254-1	198.614	0.000 E3	100.0#	0#	-2.64#
19 l4	1254-2	545.132	0.000 E3	100.0#	0#	-2.74#
20 l4	1254-3	765.532	0.000 E3	100.0#	0#	-2.97#
21 l4	1254-4	497.020	0.000 E3	100.0#	0#	-3.09#
22 l4	1254-5	696.237	0.000 E3	100.0#	0#	-3.36#
35 l7	1248-1	563.976	0.000 E3	100.0#	0#	-2.18#
36 l7	1248-2	374.750	0.000 E3	100.0#	0#	-2.33#
37 l7	1248-3	460.366	0.000 E3	100.0#	0#	-2.46#
38 l7	1248-4	477.972	0.000 E3	100.0#	0#	-2.63#
39 l7	1248-5	545.938	0.000 E3	100.0#	0#	-2.66#
41 l5	1232-1	249.645	0.000 E3	100.0#	0#	-1.81#
42 l5	1232-2	257.716	0.000 E3	100.0#	0#	-1.98#
43 l5	1232-3	464.504	0.000 E3	100.0#	0#	-2.19#
44 l5	1232-4	180.759	0.000 E3	100.0#	0#	-2.25#
45 l5	1232-5	136.117	0.000 E3	100.0#	0#	-2.63#
46 l8	1262-1	493.998	0.000 E3	100.0#	0#	-3.17#
47 l8	1262-2	671.619	0.000 E3	100.0#	0#	-3.41#
48 l8	1262-3	615.835	0.000 E3	100.0#	0#	-3.57#
49 l8	1262-4	1.148	0.000 E6	100.0#	0#	-3.70#
50 l8	1262-5	408.151	0.000 E3	100.0#	0#	-4.21#

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0
(^) = ISTD area calculated using ICAL average

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240229I\
Data File : P2240229i-14.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Feb 2024 2:11 pm
Operator : pest2:rmp/kb
Sample : cicv4268,42,,pp 11468
Misc : WG1891083,, (Sig #1); ,,ical (Sig #2)
ALS Vial : 14 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Feb 29 15:33:39 2024
Quant Method : I:\PCB\Pest2\2024\240229I\P2_pcb_02_29_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Thu Feb 29 15:30:13 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	1.166	1.235	234.1E6	288.5E6	25.000M4	25.000
14) i	2154_1br2nb	1.166	1.235	234.1E6	288.5E6	25.000M4	25.000
23) i	4268_1br2nb	1.166	1.235	234.1E6	288.5E6	25.000M4	25.000
34) i	1248_1br2nb	1.166	1.235	234.1E6	288.5E6	25.000M4	25.000
40) i	3262_1br2nb	1.166	1.235	234.1E6	288.5E6	25.000M4	25.000
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.452	1.611	176.0E6	202.9E6	14.338M3	14.277
	Spiked Amount 20.000	Range 30 - 150		Recovery =		71.69%	71.39%
3) s	Decachlorobi	4.029	4.551	445.2E6	369.5E6	50.091	48.278
	Spiked Amount 20.000	Range 30 - 150		Recovery =		250.46%#	241.39%#
	Target Compounds						
4) l1	1016-1	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-2	0.000	0.000	0	0	N.D. d	N.D. d
6) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
8) l1	1016-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1016-1			0	0	N.D.	N.D.
	Average 1016-1					0.000	0.000
9) l2	1260-1	0.000	0.000	0	0	N.D. d	N.D. d
10) l2	1260-2	0.000	0.000	0	0	N.D. d	N.D. d
11) l2	1260-3	0.000	0.000	0	0	N.D. d	N.D. d
12) l2	1260-4	0.000	0.000	0	0	N.D. d	N.D. d
13) l2	1260-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1260-1			0	0	N.D.	N.D.
	Average 1260-1					0.000	0.000
15) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d
16) l3	1221-3	0.000	0.000	0	0	N.D. d	N.D. d
17) l3	1221-4	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240229I\
Data File : P2240229i-14.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Feb 2024 2:11 pm
Operator : pest2:rmp/kb
Sample : cicv4268,42,,pp 11468
Misc : WG1891083,, (Sig #1); ,,ical (Sig #2)
ALS Vial : 14 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Feb 29 15:33:39 2024
Quant Method : I:\PCB\Pest2\2024\240229I\P2_pcb_02_29_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Thu Feb 29 15:30:13 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Sum	1221-2			0	0	N.D.	N.D.
Average	1221-2					0.000	0.000
18) l4	1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4	1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4	1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4	1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4	1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254-1			0	0	N.D.	N.D.
Average	1254-1					0.000	0.000
24) l6	1242-1	1.592	1.814	39719990	44966532	252.870	232.284
25) l6	1242-2	1.734	1.986	83566374	103.6E6	246.483M4	236.924
26) l6	1242-3	1.924	2.188	178.8E6	201.7E6	249.271	242.598
27) l6	1242-4	1.979	2.248	75949407	79591953	248.458	242.812
28) l6	1242-5	2.332	2.636	58932775	62014526	252.473M4	261.433M4
Sum	1242-1			436.9E6	491.9E6	1249.555	1216.051
Average	1242-1					249.911	243.210
29) l9	1268-1	3.460	3.895	426.7E6	376.2E6	276.034M4	268.920
30) l9	1268-2	3.481	3.921	369.0E6	335.7E6	261.231M4	269.014M4
31) l9	1268-3	3.583	4.063	282.5E6	257.3E6	244.243M4	245.386M4
32) l9	1268-4	3.771	4.216	122.2E6	111.3E6	240.451M4	254.218M4
33) l9	1268-5	3.925	4.402	827.3E6	703.1E6	229.156M4	218.205M4
Sum	1268-1			2027.6E6	1783.6E6	1251.116	1255.743
Average	1268-1					250.223	251.149
35) l7	1248-1	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PCB\Pest2\2024\240229I\
Data File : P2240229i-14.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Feb 2024 2:11 pm
Operator : pest2:rmp/kb
Sample : cicv4268,42,,pp 11468
Misc : WG1891083,, (Sig #1); ,,ical (Sig #2)
ALS Vial : 14 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Feb 29 15:33:39 2024
Quant Method : I:\PCB\Pest2\2024\240229I\P2_pcb_02_29_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Thu Feb 29 15:30:13 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
36) l7	1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7	1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7	1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7	1248-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1248-1			0	0	N.D.	N.D.
Average	1248-1					0.000	0.000
41) l5	1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5	1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5	1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5	1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5	1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1232-1			0	0	N.D.	N.D.
Average	1232-1					0.000	0.000
46) l8	1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8	1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8	1262-3	0.000	0.000	0	0	N.D. d	N.D. d
49) l8	1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50) l8	1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument							
Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

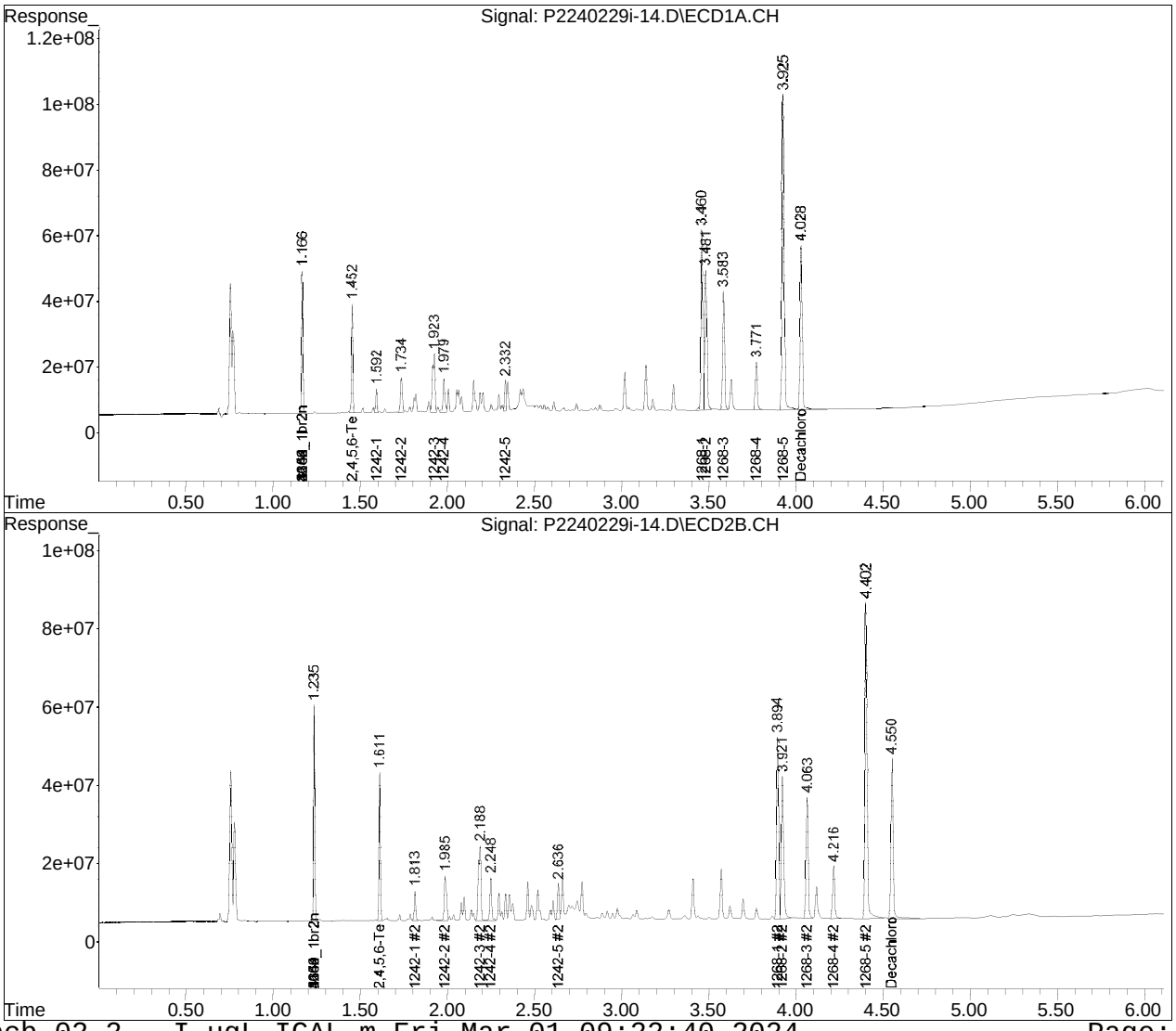
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PCB\Pest2\2024\240229I\
Data File : P2240229i-14.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Feb 2024 2:11 pm
Operator : pest2:rmp/kb
Sample : cicv4268,42,,pp 11468
Misc : WG1891083,, (Sig #1); ,,ical (Sig #2)
ALS Vial : 14 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Feb 29 15:33:39 2024
Quant Method : I:\PCB\Pest2\2024\240229I\P2_pcb_02_29_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Thu Feb 29 15:30:13 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

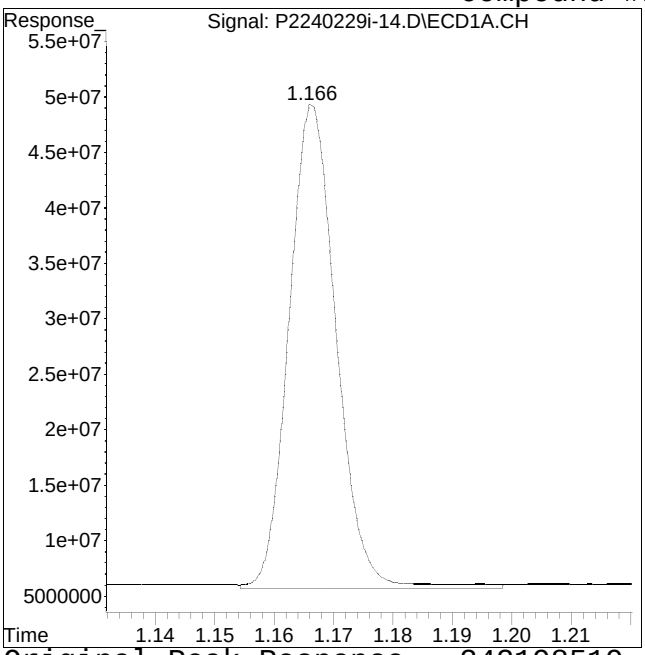
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

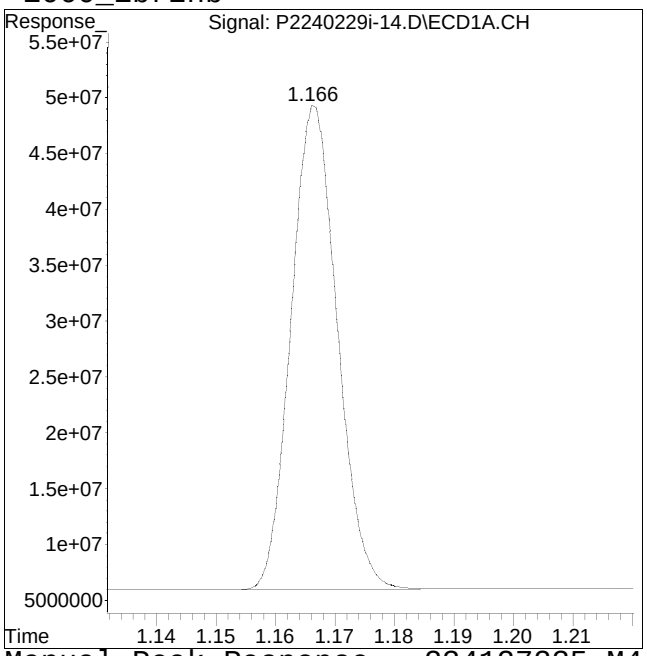


Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240229I\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240229i-14.D Operator : pest2:rmp/kb
Date Inj'd : 2/29/2024 2:11 pm Instrument : Pest 2
Sample : cicv4268,42,,pp 11468 Quant Date : 2/29/2024 3:30 pm

Compound #1: 1660_1br2nb



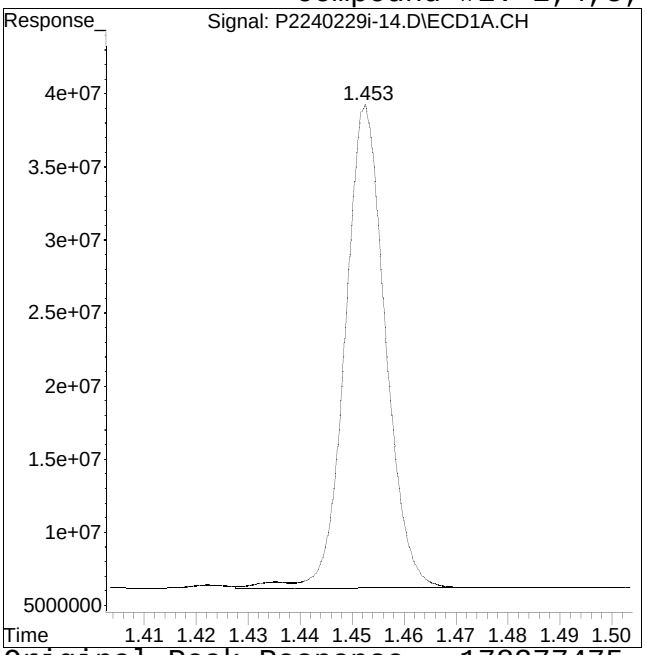


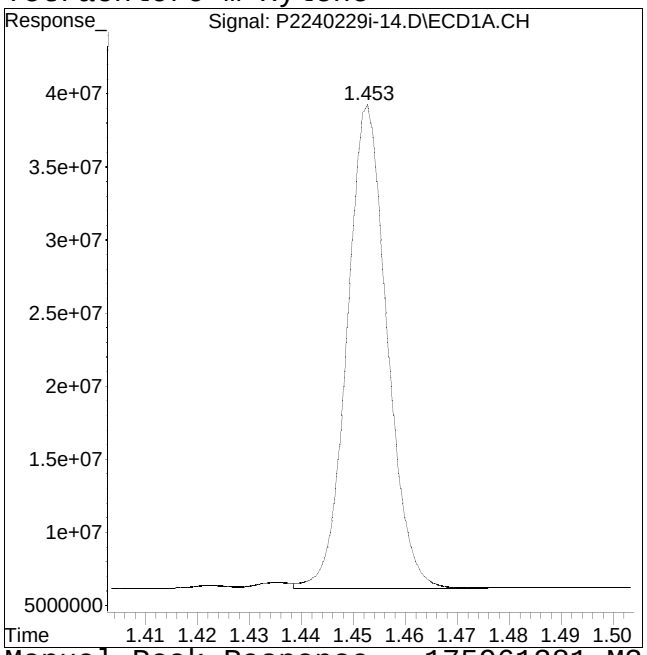
Original Peak Response = 242198519 Manual Peak Response = 234127235 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240229I\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240229i-14.D Operator : pest2:rmp/kb
Date Inj'd : 2/29/2024 2:11 pm Instrument : Pest 2
Sample : cicv4268,42,,pp 11468 Quant Date : 2/29/2024 3:30 pm

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



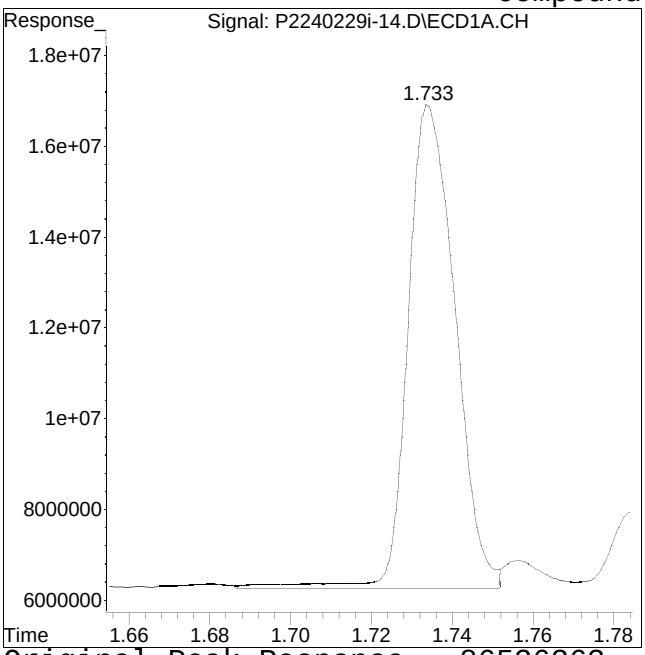


Original Peak Response = 178377475 Manual Peak Response = 175961381 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

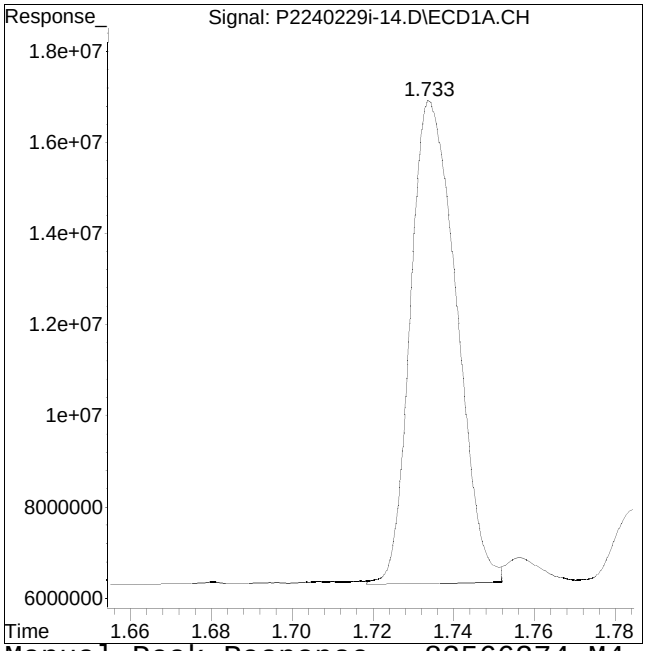
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240229I\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240229i-14.D Operator : pest2:rmp/kb
Date Inj'd : 2/29/2024 2:11 pm Instrument : Pest 2
Sample : cicv4268,42,,pp 11468 Quant Date : 2/29/2024 3:30 pm

Compound #25: 1242-2



Original Peak Response = 86536263



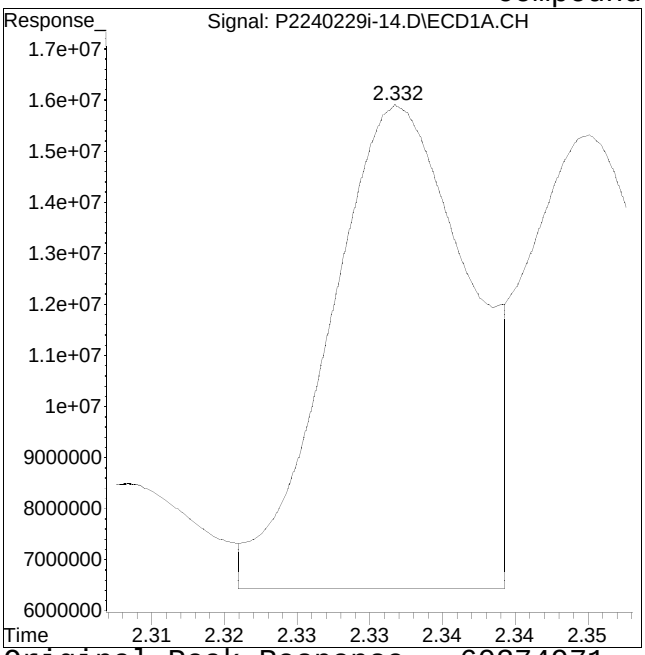
Manual Peak Response = 83566374 M4

M4 = Poor automated baseline construction.

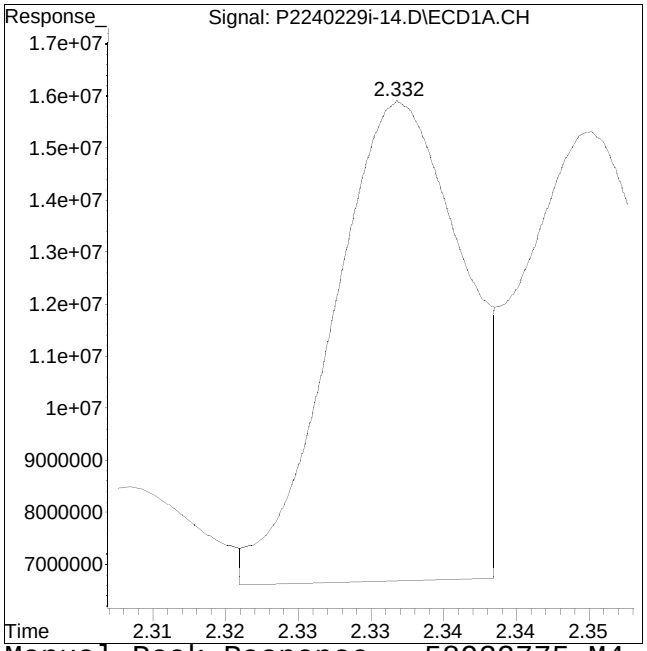
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240229I\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240229i-14.D Operator : pest2:rmp/kb
Date Inj'd : 2/29/2024 2:11 pm Instrument : Pest 2
Sample : cicv4268,42,,pp 11468 Quant Date : 2/29/2024 3:30 pm

Compound #28: 1242-5



Original Peak Response = 60374971



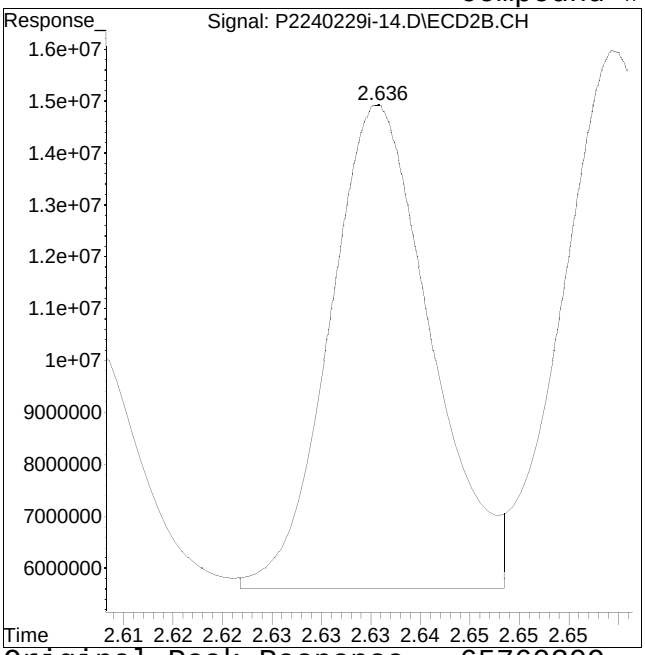
Manual Peak Response = 58932775 M4

M4 = Poor automated baseline construction.

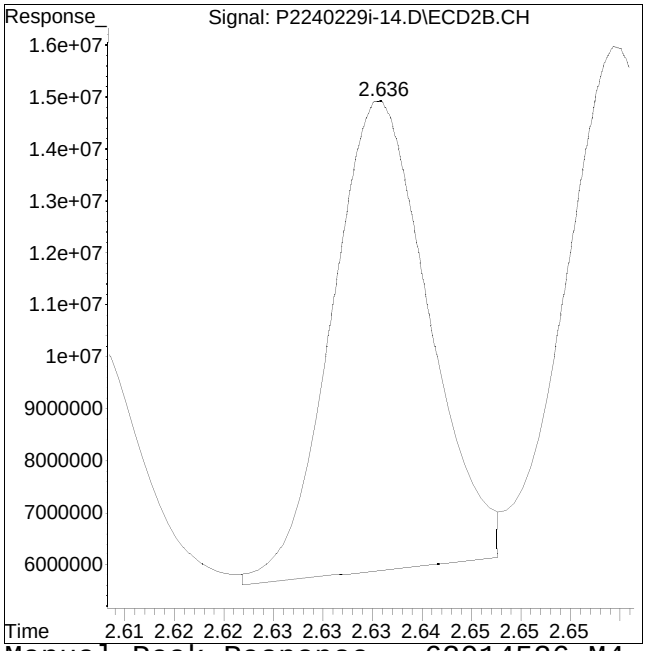
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240229I\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240229i-14.D Operator : pest2:rmp/kb
Date Inj'd : 2/29/2024 2:11 pm Instrument : Pest 2
Sample : cicv4268,42,,pp 11468 Quant Date : 2/29/2024 3:30 pm

Compound #79: 1242-5 #2



Original Peak Response = 65760399



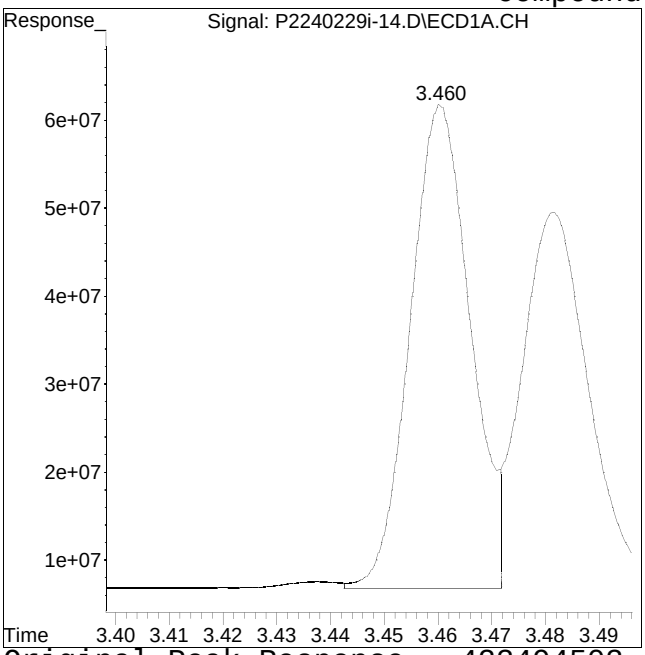
Manual Peak Response = 62014526 M4

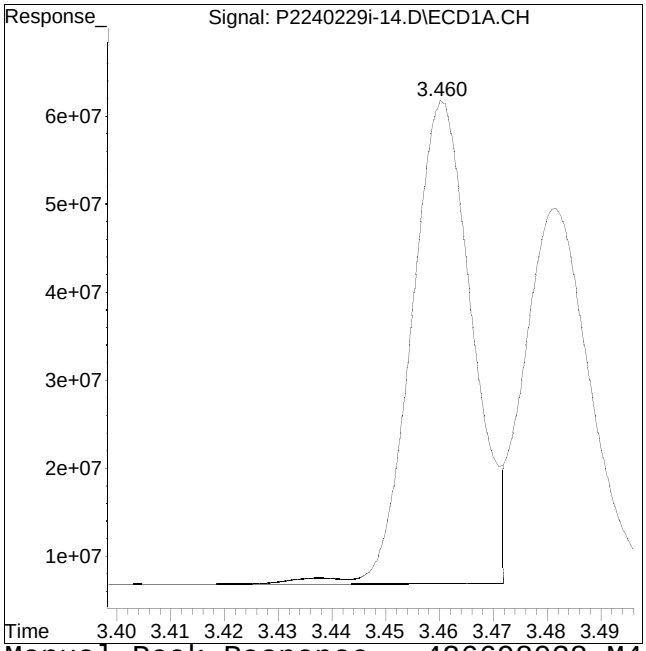
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240229I\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240229i-14.D Operator : pest2:rmp/kb
Date Inj'd : 2/29/2024 2:11 pm Instrument : Pest 2
Sample : cicv4268,42,,pp 11468 Quant Date : 2/29/2024 3:30 pm

Compound #29: 1268-1



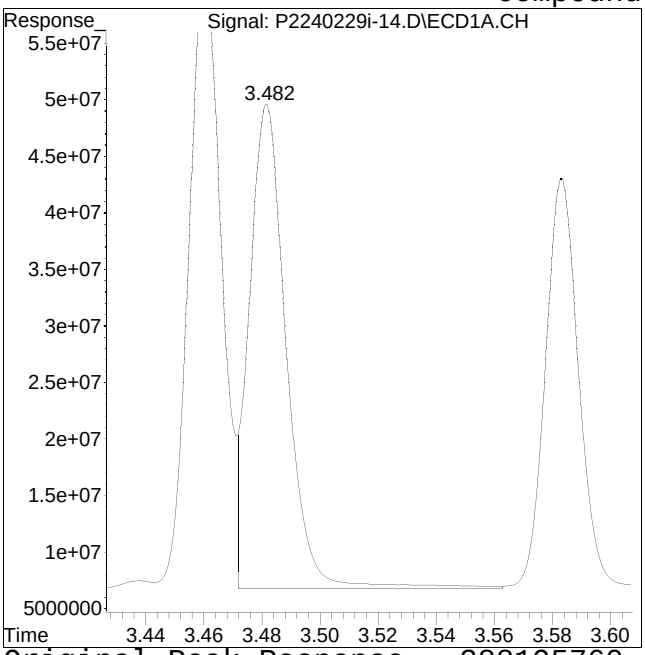


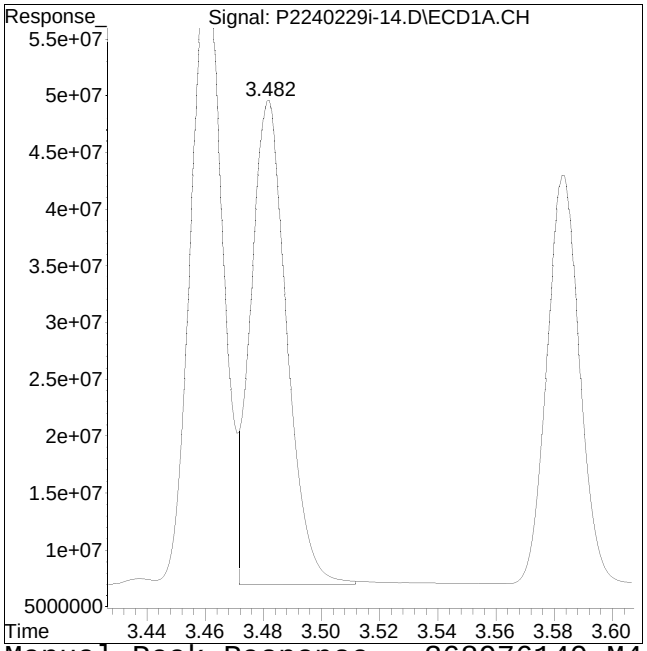
Original Peak Response = 423494503 Manual Peak Response = 426698038 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240229I\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240229i-14.D Operator : pest2:rmp/kb
Date Inj'd : 2/29/2024 2:11 pm Instrument : Pest 2
Sample : cicv4268,42,,pp 11468 Quant Date : 2/29/2024 3:30 pm

Compound #30: 1268-2



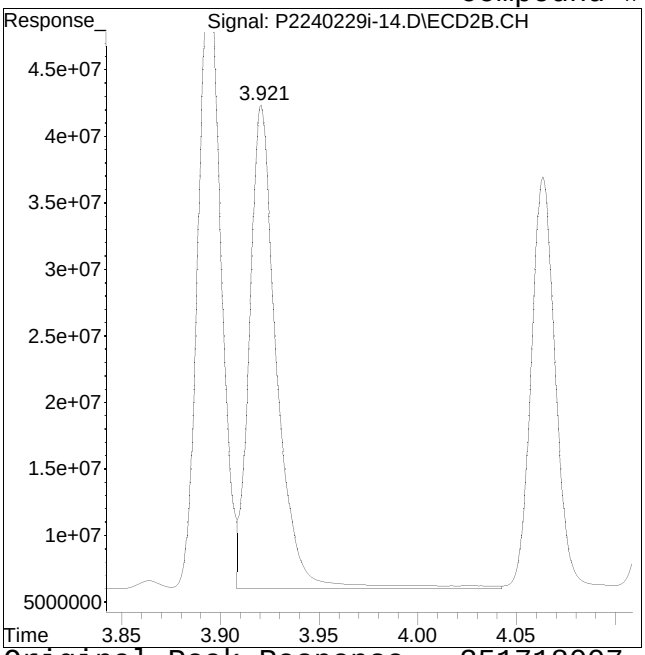


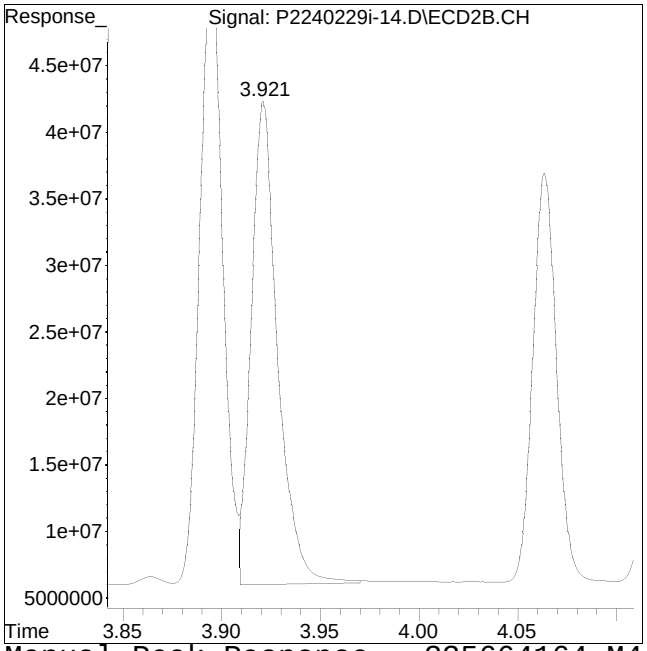
Original Peak Response = 388195760 Manual Peak Response = 368976140 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240229I\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240229i-14.D Operator : pest2:rmp/kb
Date Inj'd : 2/29/2024 2:11 pm Instrument : Pest 2
Sample : cicv4268,42,,pp 11468 Quant Date : 2/29/2024 3:30 pm

Compound #81: 1268-2 #2



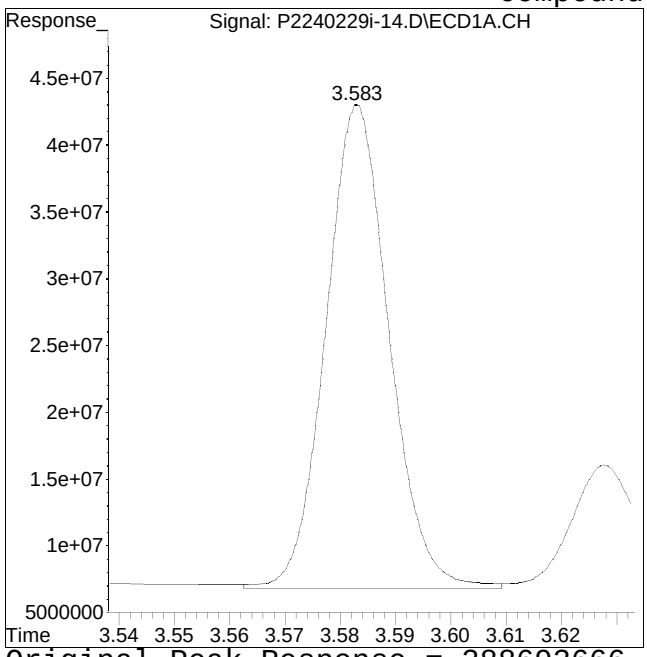


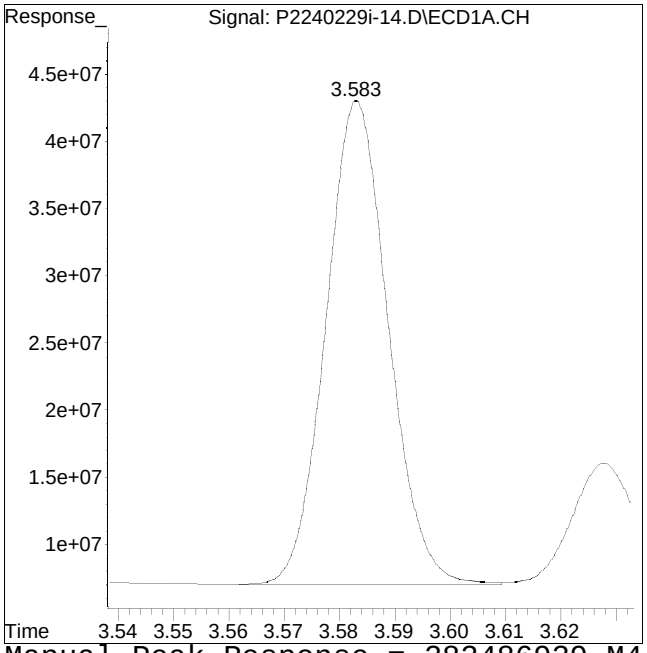
Original Peak Response = 351718007 Manual Peak Response = 335664164 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240229I\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240229i-14.D Operator : pest2:rmp/kb
Date Inj'd : 2/29/2024 2:11 pm Instrument : Pest 2
Sample : cicv4268,42,,pp 11468 Quant Date : 2/29/2024 3:30 pm

Compound #31: 1268-3



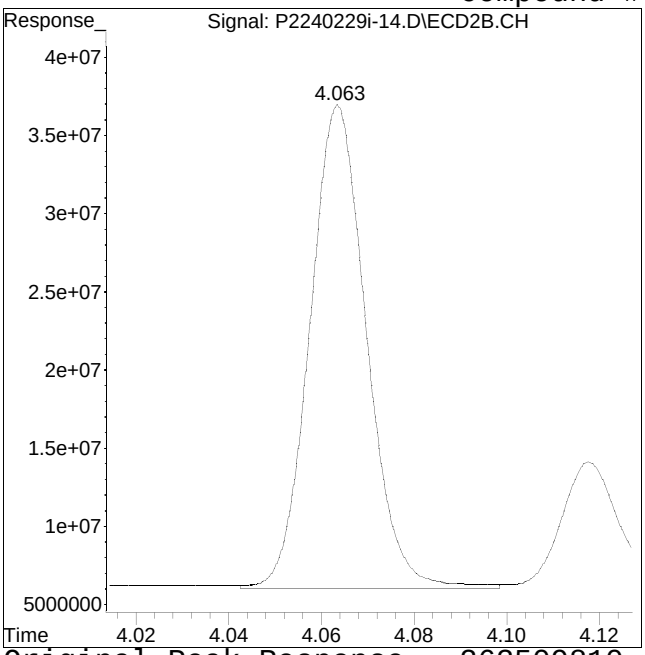


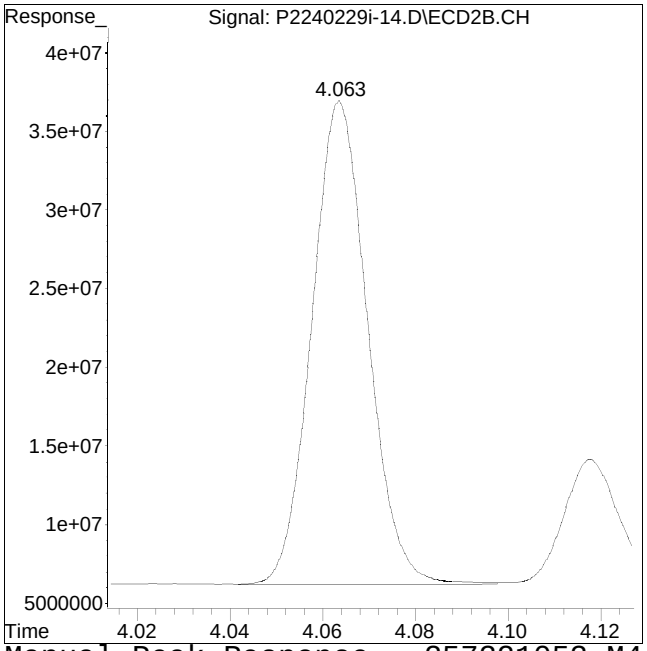
Original Peak Response = 288693666 Manual Peak Response = 282486939 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240229I\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240229i-14.D Operator : pest2:rmp/kb
Date Inj'd : 2/29/2024 2:11 pm Instrument : Pest 2
Sample : cicv4268,42,,pp 11468 Quant Date : 2/29/2024 3:30 pm

Compound #82: 1268-3 #2



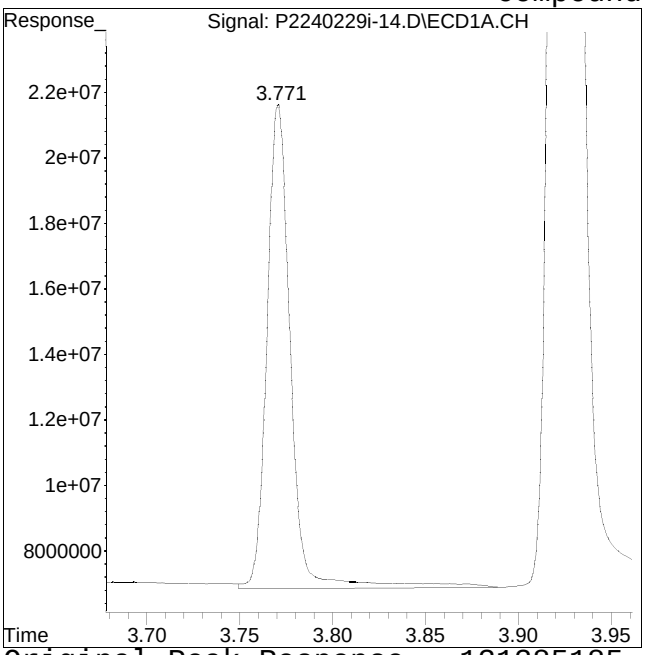


Original Peak Response = 263509810 Manual Peak Response = 257321053 M4
M4 = Poor automated baseline construction.

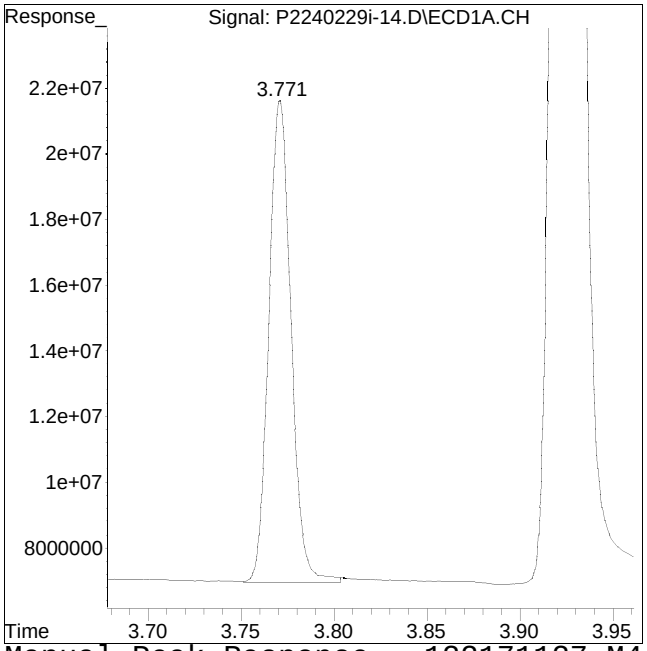
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240229I\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240229i-14.D Operator : pest2:rmp/kb
Date Inj'd : 2/29/2024 2:11 pm Instrument : Pest 2
Sample : cicv4268,42,,pp 11468 Quant Date : 2/29/2024 3:30 pm

Compound #32: 1268-4



Original Peak Response = 131385185



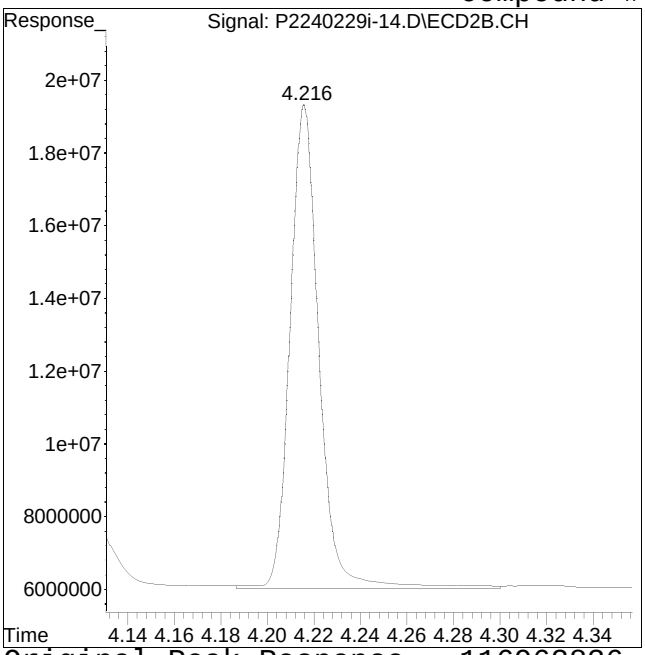
Manual Peak Response = 122171127 M4

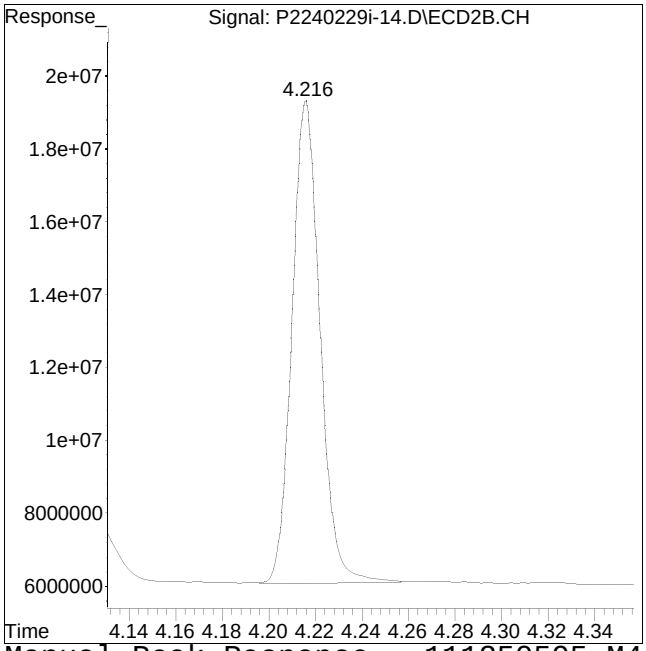
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240229I\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240229i-14.D Operator : pest2:rmp/kb
Date Inj'd : 2/29/2024 2:11 pm Instrument : Pest 2
Sample : cicv4268,42,,pp 11468 Quant Date : 2/29/2024 3:30 pm

Compound #83: 1268-4 #2



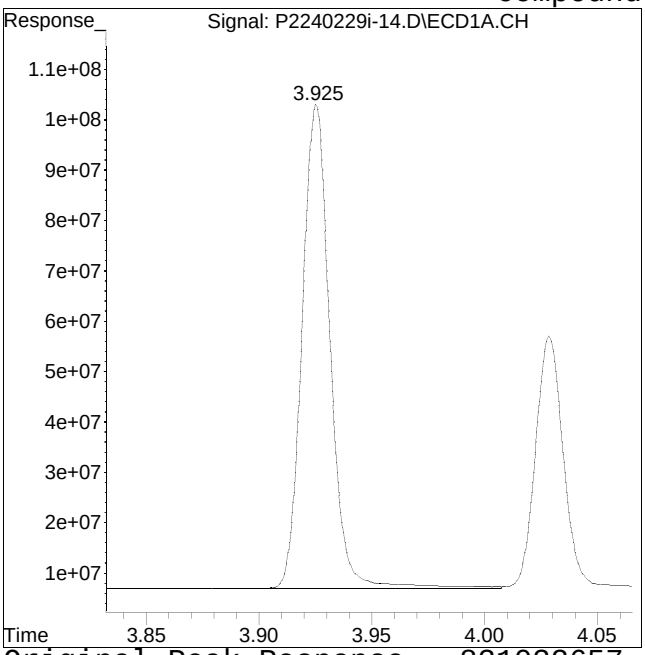


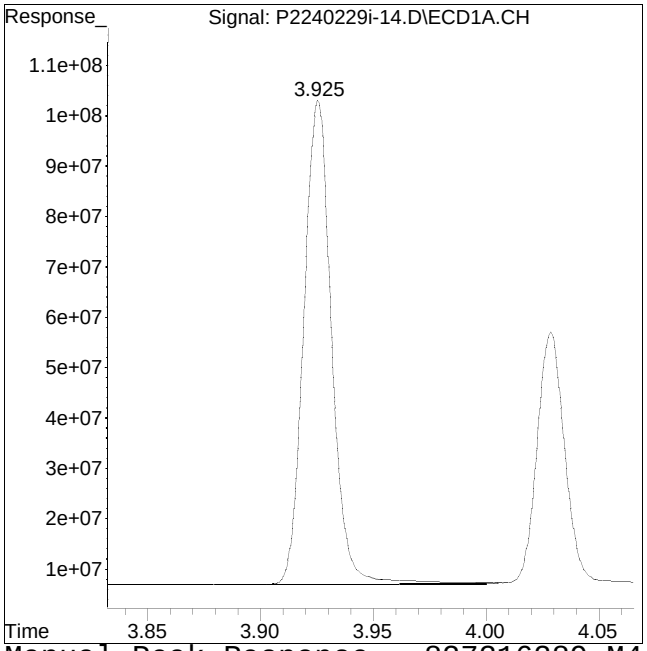
Original Peak Response = 116962836 Manual Peak Response = 111250595 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240229I\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240229i-14.D Operator : pest2:rmp/kb
Date Inj'd : 2/29/2024 2:11 pm Instrument : Pest 2
Sample : cicv4268,42,,pp 11468 Quant Date : 2/29/2024 3:30 pm

Compound #33: 1268-5



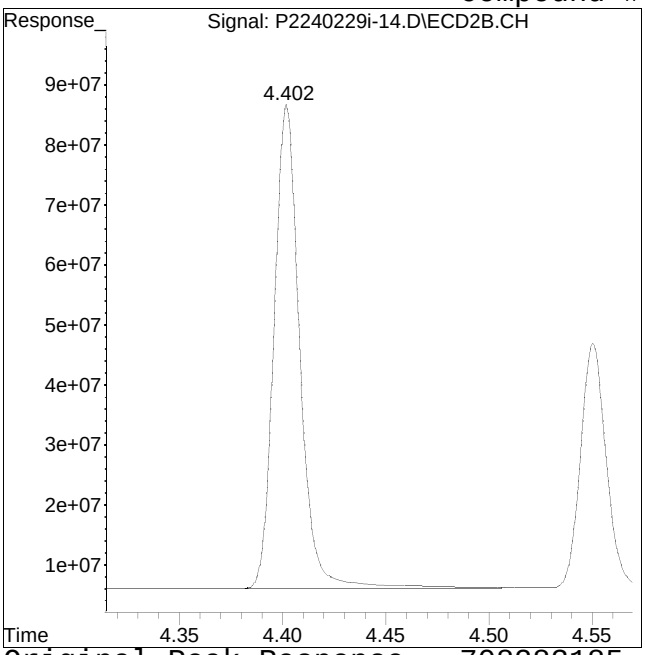


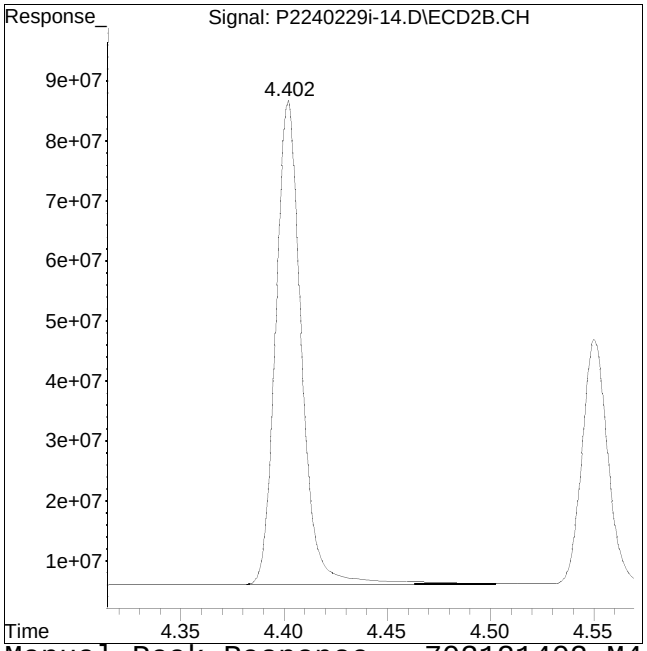
Original Peak Response = 831032657 Manual Peak Response = 827316289 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240229I\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240229i-14.D Operator : pest2:rmp/kb
Date Inj'd : 2/29/2024 2:11 pm Instrument : Pest 2
Sample : cicv4268,42,,pp 11468 Quant Date : 2/29/2024 3:30 pm

Compound #84: 1268-5 #2





Original Peak Response = 708283185 Manual Peak Response = 703121402 M4
M4 = Poor automated baseline construction.

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest2\2024\240229I\
Data File : P2240229i-15.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 29 Feb 2024   2:19 pm
Operator : pest2:rmp/kb
Sample   : cicv3262,42,,pp 11467
Misc   : WG1891083,, (Sig #1); ,,ical (Sig #2)
ALS Vial : 15 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Feb 29 15:46:35 2024
Quant Method : I:\PCB\Pest2\2024\240229I\P2_pcb_02_29_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Thu Feb 29 15:30:13 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
1	i	1660_1br2nb	^	1.000	1.000	0.0	103	0.00
2	s	2,4,5,6-Tetrachloro-m-xylen		1.310	1.095	16.4	86	0.00
3	s	Decachlorobiphenyl		0.949	0.906	4.5	104	0.00
14	i	2154_1br2nb	^	1.000	1.000	0.0	105	0.00
23	i	4268_1br2nb	^	1.000	1.000	0.0	100	0.00
34	i	1248_1br2nb	^	1.000	1.000	0.0	101	0.00
40	i	3262_1br2nb	^	1.000	1.000	0.0	100	0.00
41	l5	1232-1		0.023	0.024	-4.3	105	0.00
42	l5	1232-2		0.021	0.019	9.5	92	0.00
43	l5	1232-3		0.043	0.041	4.7	96	0.00
44	l5	1232-4		0.018	0.018	0.0	98	0.00
45	l5	1232-5		0.013	0.012	7.7	90	0.00
46	l8	1262-1		0.065	0.061	6.2	93	0.00
47	l8	1262-2		0.081	0.075	7.4	93	0.00
48	l8	1262-3		0.071	0.067	5.6	95	0.00
49	l8	1262-4		0.139	0.134	3.6	97	0.00
50	l8	1262-5		0.045	0.044	2.2	97	0.00

Signal #2

1	i	1660_1br2nb	^	1.000	1.000	0.0	100	0.00
2	s	2,4,5,6-Tetrachloro-m-xyl		1.231	1.075	12.7	88	0.00
3	s	Decachlorobiphenyl		0.663	0.634	4.4	103	0.00
14	i	2154_1br2nb	^	1.000	1.000	0.0	105	0.00

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest2\2024\240229I\
Data File : P2240229i-15.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 29 Feb 2024   2:19 pm
Operator : pest2:rmp/kb
Sample   : cicv3262,42,,pp 11467
Misc   : WG1891083,, (Sig #1); ,,ical (Sig #2)
ALS Vial : 15 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Feb 29 15:46:35 2024
Quant Method : I:\PCB\Pest2\2024\240229I\P2_pcb_02_29_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Thu Feb 29 15:30:13 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
23	i	4268_1br2nb	^	1.000	1.000	0.0	102	0.00
34	i	1248_1br2nb	^	1.000	1.000	0.0	101	0.00
40	i	3262_1br2nb	^	1.000	1.000	0.0	105	0.00
41	l5	1232-1		0.023	0.023	0.0	107	0.00
42	l5	1232-2		0.023	0.021	8.7	95	0.00
43	l5	1232-3		0.042	0.039	7.1	98	0.00
44	l5	1232-4		0.016	0.016	0.0	103	0.00
45	l5	1232-5		0.012	0.011	8.3	92	0.00
46	l8	1262-1		0.045	0.042	6.7	100	0.00
47	l8	1262-2		0.061	0.057	6.6	98	0.00
48	l8	1262-3		0.056	0.055	1.8	104	0.00
49	l8	1262-4		0.104	0.102	1.9	103	0.00
50	l8	1262-5		0.037	0.037	0.0	105	0.00

Evaluate Continuing Calibration Report - Not Founds

4	l1	1016-1	176.793	0.000	E3	100.0#	0#	-1.59#
5	l1	1016-2	327.203	0.000	E3	100.0#	0#	-1.73#
6	l1	1016-3	801.464	0.000	E3	100.0#	0#	-1.92#
7	l1	1016-4	344.339	0.000	E3	100.0#	0#	-1.98#
8	l1	1016-5	355.646	0.000	E3	100.0#	0#	-2.15#
9	l2	1260-1	522.526	0.000	E3	100.0#	0#	-2.69#
10	l2	1260-2	782.966	0.000	E3	100.0#	0#	-2.82#
11	l2	1260-3	489.261	0.000	E3	100.0#	0#	-3.14#
12	l2	1260-4	1.016	0.000	E6	100.0#	0#	-3.30#
13	l2	1260-5	750.560	0.000	E3	100.0#	0#	-3.44#
15	l3	1221-2	0.00043	0.00000		100.0#	0#	-1.51#
16	l3	1221-3	0.00027	0.00000		100.0#	0#	-1.58#
17	l3	1221-4	0.00105	0.00000		100.0#	0#	-1.59#

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest2\2024\240229I\
Data File : P2240229i-15.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 29 Feb 2024   2:19 pm
Operator : pest2:rmp/kb
Sample   : cicv3262,42,,pp 11467
Misc   : WG1891083,, (Sig #1); ,,ical (Sig #2)
ALS Vial : 15 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Feb 29 15:46:35 2024
Quant Method : I:\PCB\Pest2\2024\240229I\P2_pcb_02_29_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Thu Feb 29 15:30:13 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
18 l4	1254-1	0.00148	0.00000	100.0#	0#	-2.31#
19 l4	1254-2	0.00276	0.00000	100.0#	0#	-2.43#
20 l4	1254-3	0.00257	0.00000	100.0#	0#	-2.61#
21 l4	1254-4	0.00198	0.00000	100.0#	0#	-2.74#
22 l4	1254-5	0.00275	0.00000	100.0#	0#	-2.96#
24 l6	1242-1	0.00059	0.00000	100.0#	0#	-1.59#
25 l6	1242-2	0.00128	0.00000	100.0#	0#	-1.73#
26 l6	1242-3	0.00270	0.00000	100.0#	0#	-1.92#
27 l6	1242-4	0.00115	0.00000	100.0#	0#	-1.98#
28 l6	1242-5	0.00088	0.00000	100.0#	0#	-2.33#
29 l9	1268-1	0.00582	0.00000	100.0#	0#	-3.46#
30 l9	1268-2	0.00532	0.00000	100.0#	0#	-3.48#
31 l9	1268-3	0.00435	0.00000	100.0#	0#	-3.58#
32 l9	1268-4	0.00191	0.00000	100.0#	0#	-3.77#
33 l9	1268-5	0.014	0.000	100.0#	0#	-3.92#
35 l7	1248-1	0.00180	0.00000	100.0#	0#	-1.91#
36 l7	1248-2	0.00233	0.00000	100.0#	0#	-2.05#
37 l7	1248-3	0.00205	0.00000	100.0#	0#	-2.15#
38 l7	1248-4	0.00184	0.00000	100.0#	0#	-2.33#
39 l7	1248-5	0.00158	0.00000	100.0#	0#	-2.34#

Signal #2

4 l1	1016-1	248.412	0.000 E3	100.0#	0#	-1.81#
5 l1	1016-2	546.543	0.000 E3	100.0#	0#	-1.99#
6 l1	1016-3	1.097	0.000 E6	100.0#	0#	-2.19#
7 l1	1016-4	439.198	0.000 E3	100.0#	0#	-2.25#
8 l1	1016-5	337.039	0.000 E3	100.0#	0#	-2.46#
9 l2	1260-1	586.570	0.000 E3	100.0#	0#	-3.07#
10 l2	1260-2	725.197	0.000 E3	100.0#	0#	-3.17#
11 l2	1260-3	582.049	0.000 E3	100.0#	0#	-3.57#

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest2\2024\240229I\
Data File : P2240229i-15.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 29 Feb 2024   2:19 pm
Operator : pest2:rmp/kb
Sample   : cicv3262,42,,pp 11467
Misc   : WG1891083,, (Sig #1); ,,ical (Sig #2)
ALS Vial : 15 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Feb 29 15:46:35 2024
Quant Method : I:\PCB\Pest2\2024\240229I\P2_pcb_02_29_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Thu Feb 29 15:30:13 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
12 l2	1260-4	1.198	0.000 E6	100.0#	0#	-3.70#
13 l2	1260-5	825.586	0.000 E3	100.0#	0#	-3.90#
15 l3	1221-2	139.447	0.000 E3	100.0#	0#	-1.73#
16 l3	1221-3	87.577	0.000 E3	100.0#	0#	-1.79#
17 l3	1221-4	321.880	0.000 E3	100.0#	0#	-1.81#
18 l4	1254-1	198.614	0.000 E3	100.0#	0#	-2.64#
19 l4	1254-2	545.132	0.000 E3	100.0#	0#	-2.74#
20 l4	1254-3	765.532	0.000 E3	100.0#	0#	-2.97#
21 l4	1254-4	497.020	0.000 E3	100.0#	0#	-3.09#
22 l4	1254-5	696.237	0.000 E3	100.0#	0#	-3.36#
24 l6	1242-1	191.593	0.000 E3	100.0#	0#	-1.81#
25 l6	1242-2	432.915	0.000 E3	100.0#	0#	-1.98#
26 l6	1242-3	822.736	0.000 E3	100.0#	0#	-2.19#
27 l6	1242-4	324.421	0.000 E3	100.0#	0#	-2.25#
28 l6	1242-5	234.770	0.000 E3	100.0#	0#	-2.63#
29 l9	1268-1	1.385	0.000 E6	100.0#	0#	-3.89#
30 l9	1268-2	1.235	0.000 E6	100.0#	0#	-3.92#
31 l9	1268-3	1.038	0.000 E6	100.0#	0#	-4.06#
32 l9	1268-4	433.117	0.000 E3	100.0#	0#	-4.21#
33 l9	1268-5	3.189	0.000 E6	100.0#	0#	-4.40#
35 l7	1248-1	563.976	0.000 E3	100.0#	0#	-2.18#
36 l7	1248-2	374.750	0.000 E3	100.0#	0#	-2.33#
37 l7	1248-3	460.366	0.000 E3	100.0#	0#	-2.46#
38 l7	1248-4	477.972	0.000 E3	100.0#	0#	-2.63#
39 l7	1248-5	545.938	0.000 E3	100.0#	0#	-2.66#

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0
(^) = ISTD area calculated using ICAL average

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240229I\
Data File : P2240229i-15.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Feb 2024 2:19 pm
Operator : pest2:rmp/kb
Sample : cicv3262,42,,pp 11467
Misc : WG1891083,, (Sig #1); ,,ical (Sig #2)
ALS Vial : 15 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Feb 29 15:46:35 2024
Quant Method : I:\PCB\Pest2\2024\240229I\P2_pcb_02_29_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Thu Feb 29 15:30:13 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	1.165	1.235	241.8E6	290.3E6	25.000M4	25.000M4
14) i	2154_1br2nb	1.165	1.235	241.8E6	290.3E6	25.000M4	25.000M4
23) i	4268_1br2nb	1.165	1.235	241.8E6	290.3E6	25.000M4	25.000M4
34) i	1248_1br2nb	1.165	1.235	241.8E6	290.3E6	25.000M4	25.000M4
40) i	3262_1br2nb	1.165	1.235	241.8E6	290.3E6	25.000M4	25.000M4
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.450	1.611	169.5E6	199.6E6	13.371M4	13.967
	Spiked Amount 20.000	Range 30 - 150		Recovery =		66.86%	69.84%
3) s	Decachlorobi	4.025	4.549	280.5E6	235.4E6	30.559	30.575
	Spiked Amount 20.000	Range 30 - 150		Recovery =		152.80%#	152.88%#
	Target Compounds						
4) l1	1016-1	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-2	0.000	0.000	0	0	N.D. d	N.D. d
6) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
8) l1	1016-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1016-1			0	0	N.D.	N.D.
Average	1016-1					0.000	0.000
9) l2	1260-1	0.000	0.000	0	0	N.D. d	N.D. d
10) l2	1260-2	0.000	0.000	0	0	N.D. d	N.D. d
11) l2	1260-3	0.000	0.000	0	0	N.D. d	N.D. d
12) l2	1260-4	0.000	0.000	0	0	N.D. d	N.D. d
13) l2	1260-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1260-1			0	0	N.D.	N.D.

Data Path : I:\PCB\Pest2\2024\240229I\
Data File : P2240229i-15.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Feb 2024 2:19 pm
Operator : pest2:rmp/kb
Sample : cicv3262,42,,pp 11467
Misc : WG1891083,, (Sig #1); ,,ical (Sig #2)
ALS Vial : 15 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Feb 29 15:46:35 2024
Quant Method : I:\PCB\Pest2\2024\240229I\P2_pcb_02_29_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Thu Feb 29 15:30:13 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Average	1260-1					0.000	0.000
15) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d
16) l3	1221-3	0.000	0.000	0	0	N.D. d	N.D. d
17) l3	1221-4	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1221-2			0	0	N.D.	N.D.
Average	1221-2					0.000	0.000
18) l4	1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4	1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4	1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4	1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4	1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254-1			0	0	N.D.	N.D.
Average	1254-1					0.000	0.000
24) l6	1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6	1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6	1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6	1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6	1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242-1			0	0	N.D.	N.D.
Average	1242-1					0.000	0.000
29) l9	1268-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l9	1268-2	0.000	0.000	0	0	N.D. d	N.D. d
31) l9	1268-3	0.000	0.000	0	0	N.D. d	N.D. d
32) l9	1268-4	0.000	0.000	0	0	N.D. d	N.D. d
33) l9	1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1268-1			0	0	N.D.	N.D.
Average	1268-1					0.000	0.000
35) l7	1248-1	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PCB\Pest2\2024\240229I\
Data File : P2240229i-15.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Feb 2024 2:19 pm
Operator : pest2:rmp/kb
Sample : cicv3262,42,,pp 11467
Misc : WG1891083,, (Sig #1); ,,ical (Sig #2)
ALS Vial : 15 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Feb 29 15:46:35 2024
Quant Method : I:\PCB\Pest2\2024\240229I\P2_pcb_02_29_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Thu Feb 29 15:30:13 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
36) l7	1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7	1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7	1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7	1248-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1248-1			0	0	N.D.	N.D.
Average	1248-1					0.000	0.000
41) l5	1232-1	1.589	1.813	57184347	66870432	261.686M4	254.186
42) l5	1232-2	1.731	1.985	46863743	61383960	230.823M4	226.024
43) l5	1232-3	1.920	2.187	98913674	113.3E6	240.407M4	231.552
44) l5	1232-4	1.975	2.247	43166863	46606986	244.959M4	244.676
45) l5	1232-5	2.328	2.634	28605248	31414713	224.850M4	219.008M3
Sum	1232-1			274.7E6	319.6E6	1202.726	1175.447
Average	1232-1					240.545	235.089
46) l8	1262-1	2.820	3.172	147.2E6	123.2E6	232.737M4	236.632M4
47) l8	1262-2	3.012	3.407	182.2E6	165.3E6	231.931M4	233.584M4
48) l8	1262-3	3.136	3.567	163.2E6	160.1E6	237.014M4	246.622
49) l8	1262-4	3.292	3.696	325.0E6	297.0E6	242.088M3	245.388
50) l8	1262-5	3.767	4.214	106.3E6	107.3E6	242.306	249.488
Sum	1262-1			923.9E6	852.8E6	1186.076	1211.714
Average	1262-1					237.215	242.343

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	1262-1			923.9E6	852.8E6	1186.076	1211.714
Average	1262-1					237.215	242.343

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240229I\
Data File : P2240229i-15.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Feb 2024 2:19 pm
Operator : pest2:rmp/kb
Sample : cicv3262,42,,pp 11467
Misc : WG1891083,, (Sig #1); ,,ical (Sig #2)
ALS Vial : 15 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Feb 29 15:46:35 2024
Quant Method : I:\PCB\Pest2\2024\240229I\P2_pcb_02_29_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Thu Feb 29 15:30:13 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l

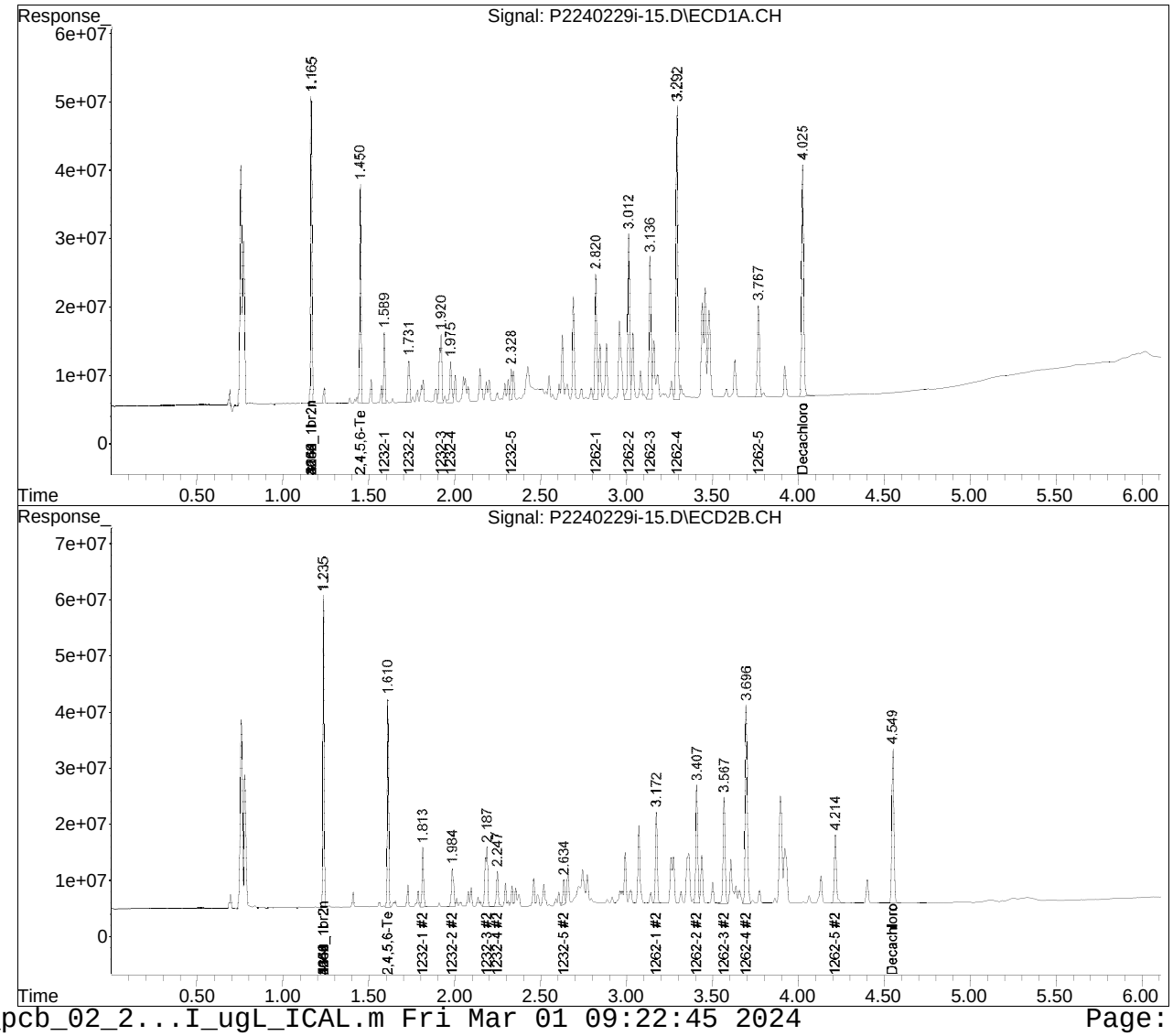
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PCB\Pest2\2024\240229I\
Data File : P2240229i-15.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Feb 2024 2:19 pm
Operator : pest2:rmp/kb
Sample : cicv3262,42,,pp 11467
Misc : WG1891083,, (Sig #1); ,,ical (Sig #2)
ALS Vial : 15 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Feb 29 15:46:35 2024
Quant Method : I:\PCB\Pest2\2024\240229I\P2_pcb_02_29_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Thu Feb 29 15:30:13 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

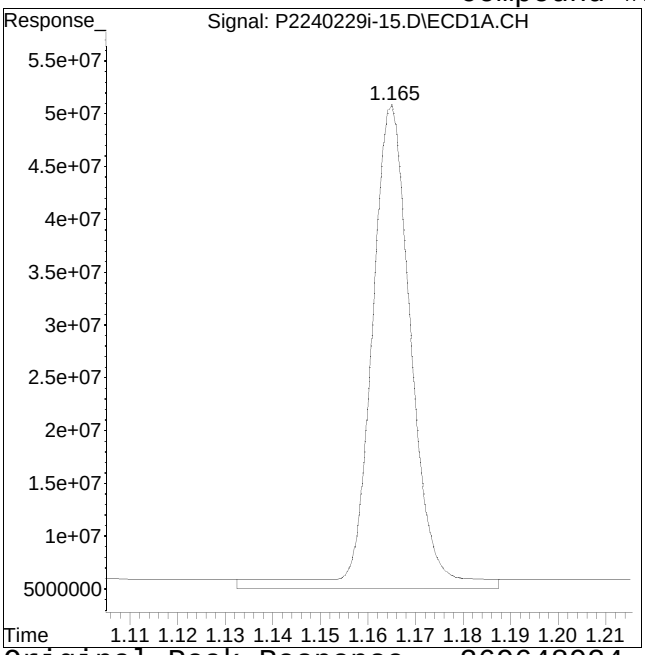
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

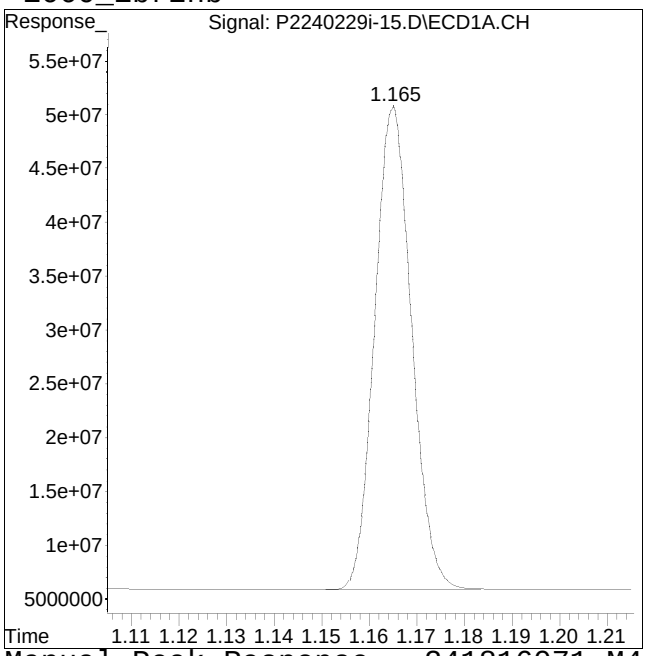


Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240229I\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240229i-15.D Operator : pest2:rmp/kb
Date Inj'd : 2/29/2024 2:19 pm Instrument : Pest 2
Sample : cicv3262,42,,pp 11467 Quant Date : 2/29/2024 3:34 pm

Compound #1: 1660_1br2nb



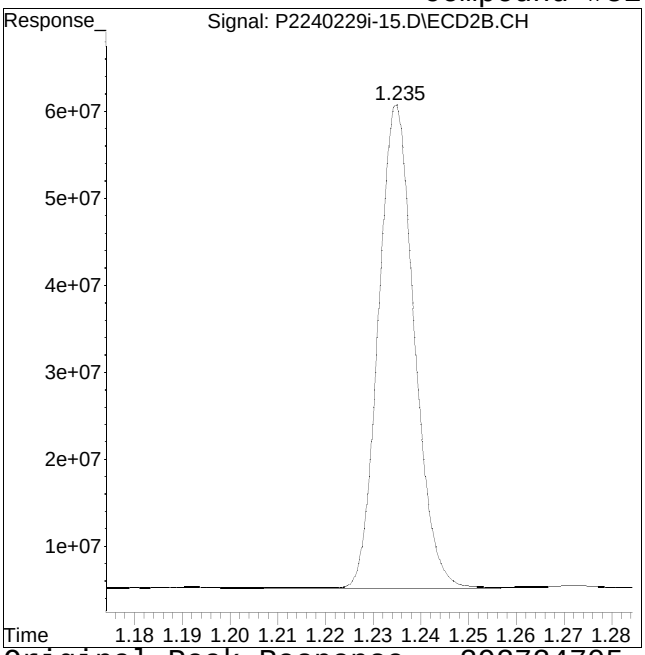


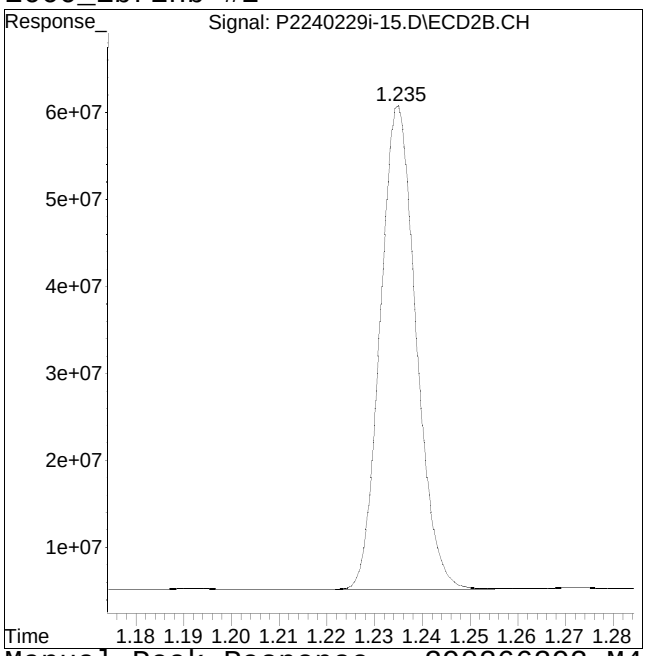
Original Peak Response = 269648924 Manual Peak Response = 241816071 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240229I\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240229i-15.D Operator : pest2:rmp/kb
Date Inj'd : 2/29/2024 2:19 pm Instrument : Pest 2
Sample : cicv3262,42,,pp 11467 Quant Date : 2/29/2024 3:34 pm

Compound #52: 1660_1br2nb #2



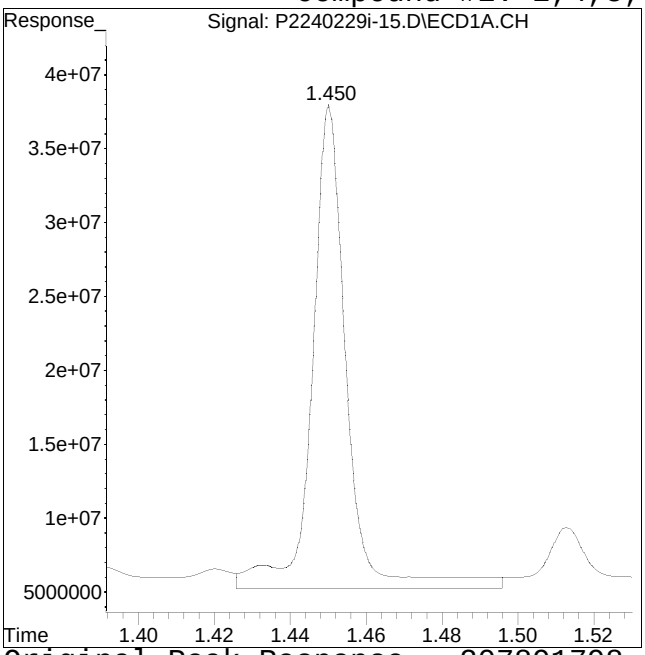


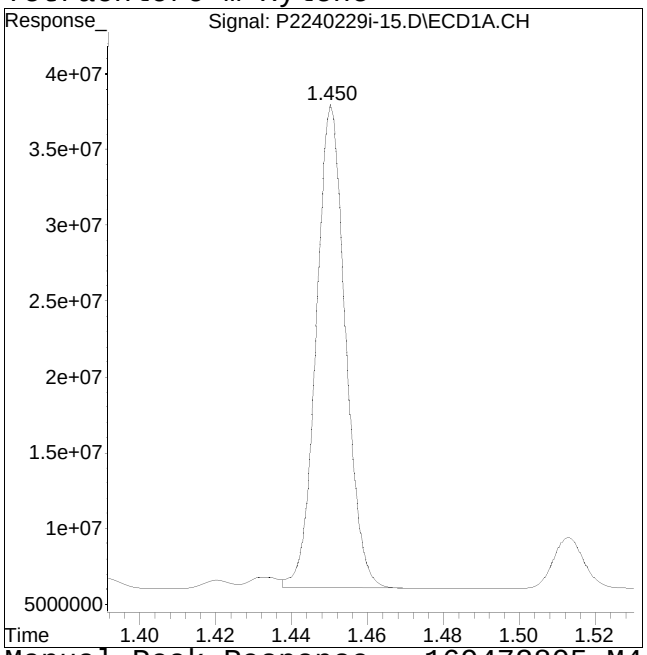
Original Peak Response = 292724705 Manual Peak Response = 290266292 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240229I\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240229i-15.D Operator : pest2:rmp/kb
Date Inj'd : 2/29/2024 2:19 pm Instrument : Pest 2
Sample : cicv3262,42,,pp 11467 Quant Date : 2/29/2024 3:34 pm

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



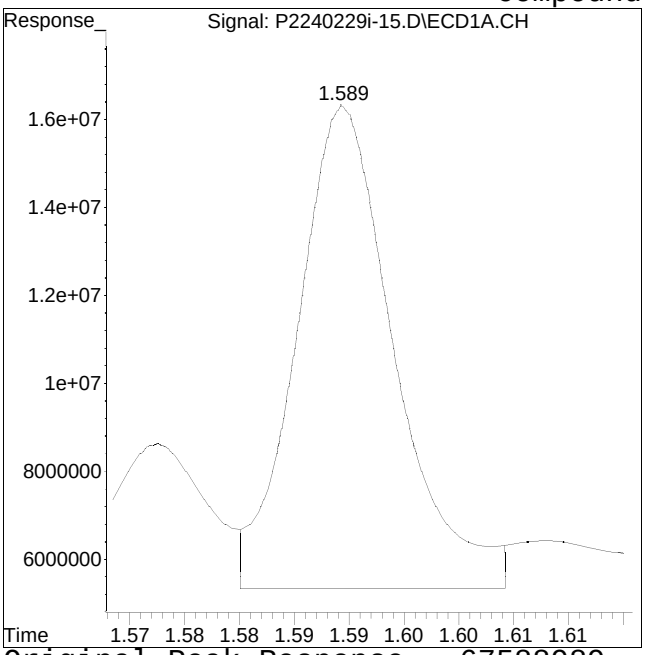


Original Peak Response = 207891798 Manual Peak Response = 169472805 M4
M4 = Poor automated baseline construction.

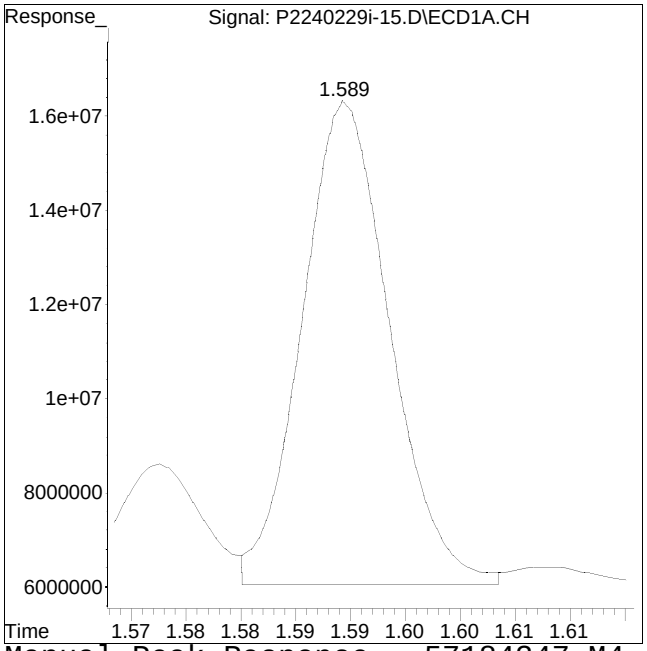
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240229I\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240229i-15.D Operator : pest2:rmp/kb
Date Inj'd : 2/29/2024 2:19 pm Instrument : Pest 2
Sample : cicv3262,42,,pp 11467 Quant Date : 2/29/2024 3:34 pm

Compound #41: 1232-1



Original Peak Response = 67588989



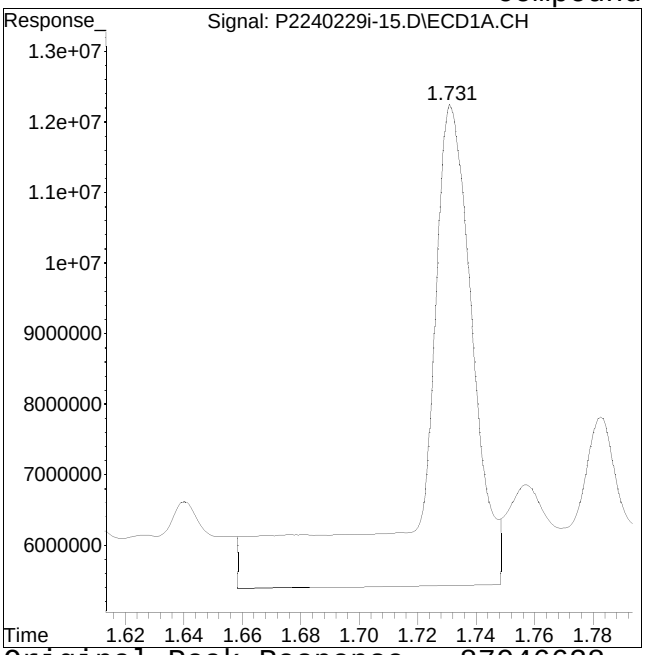
Manual Peak Response = 57184347 M4

M4 = Poor automated baseline construction.

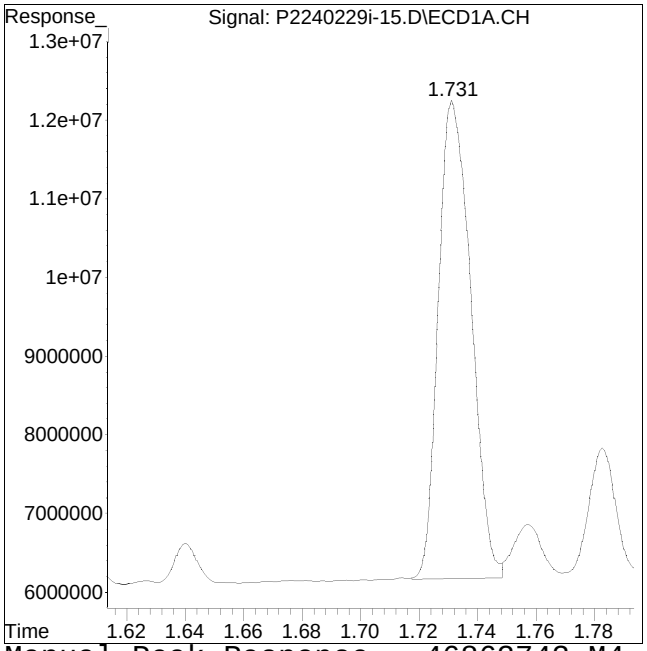
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240229I\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240229i-15.D Operator : pest2:rmp/kb
Date Inj'd : 2/29/2024 2:19 pm Instrument : Pest 2
Sample : cicv3262,42,,pp 11467 Quant Date : 2/29/2024 3:34 pm

Compound #42: 1232-2



Original Peak Response = 87046638



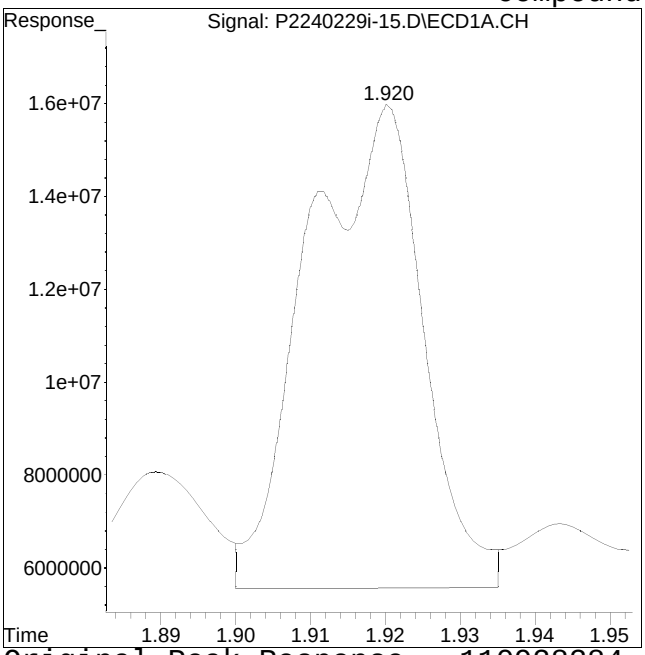
Manual Peak Response = 46863743 M4

M4 = Poor automated baseline construction.

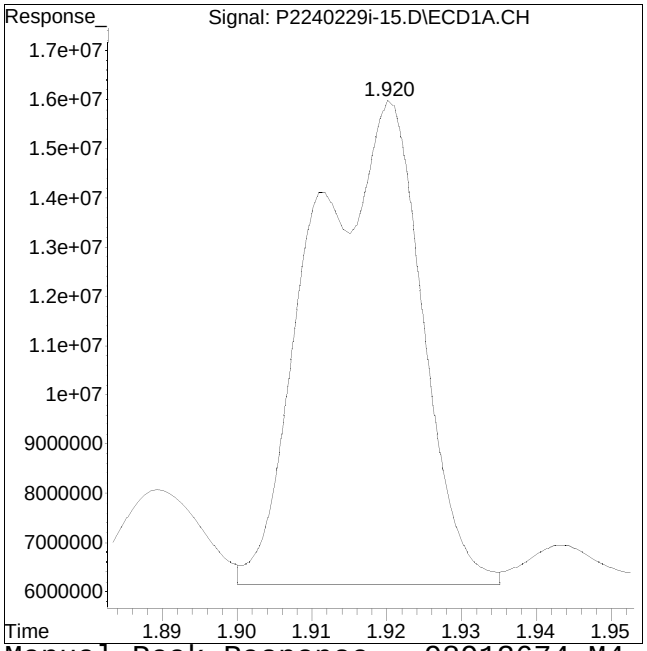
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240229I\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240229i-15.D Operator : pest2:rmp/kb
Date Inj'd : 2/29/2024 2:19 pm Instrument : Pest 2
Sample : cicv3262,42,,pp 11467 Quant Date : 2/29/2024 3:34 pm

Compound #43: 1232-3



Original Peak Response = 110928384



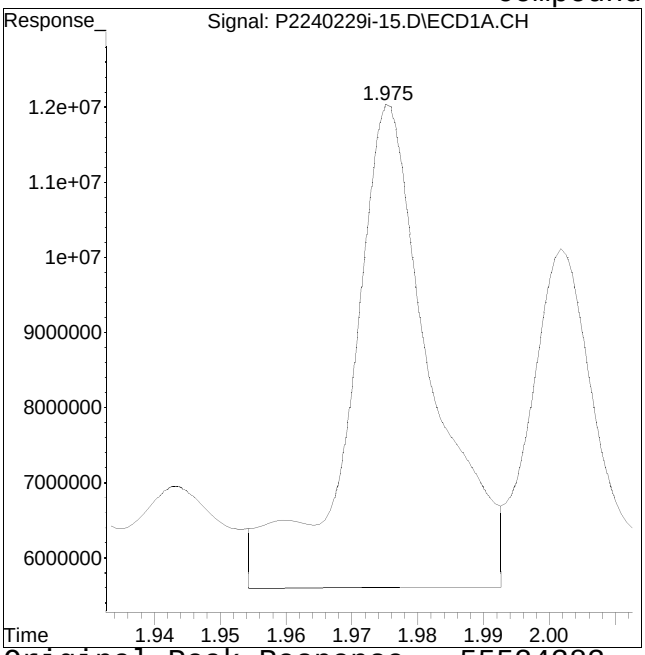
Manual Peak Response = 98913674 M4

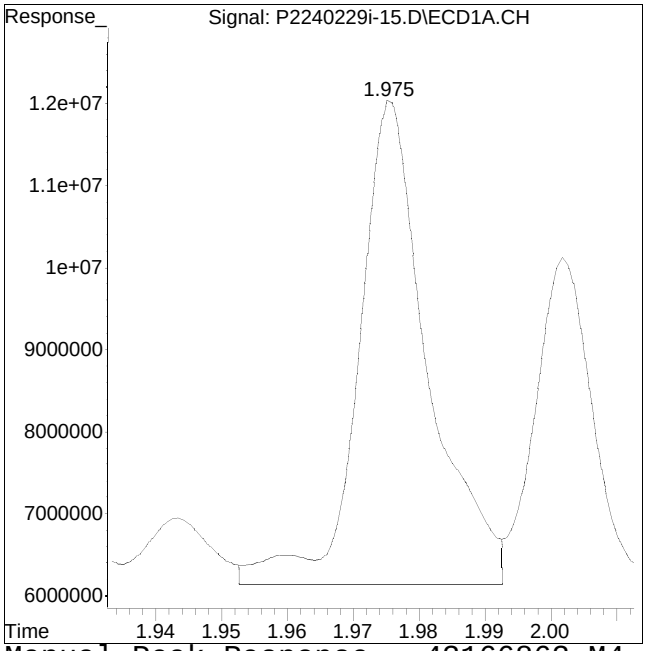
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240229I\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240229i-15.D Operator : pest2:rmp/kb
Date Inj'd : 2/29/2024 2:19 pm Instrument : Pest 2
Sample : cicv3262,42,,pp 11467 Quant Date : 2/29/2024 3:34 pm

Compound #44: 1232-4



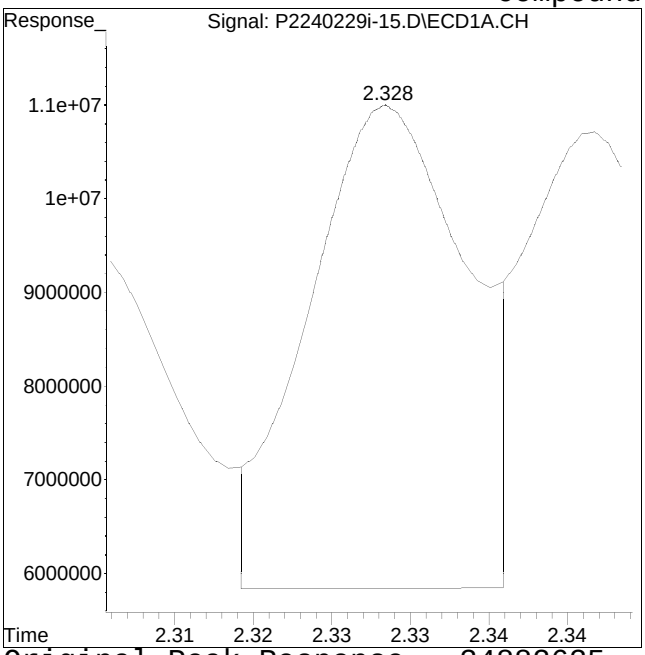


Original Peak Response = 55524383 Manual Peak Response = 43166863 M4
M4 = Poor automated baseline construction.

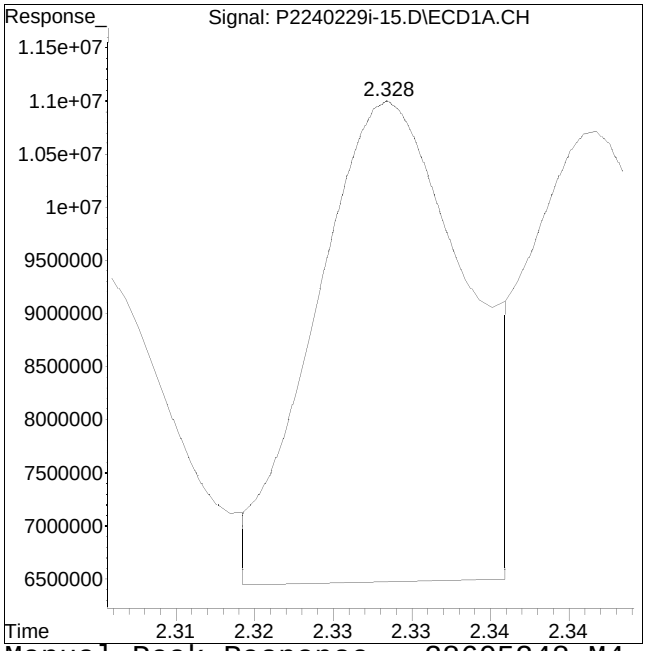
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240229I\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240229i-15.D Operator : pest2:rmp/kb
Date Inj'd : 2/29/2024 2:19 pm Instrument : Pest 2
Sample : cicv3262,42,,pp 11467 Quant Date : 2/29/2024 3:34 pm

Compound #45: 1232-5



Original Peak Response = 34882635



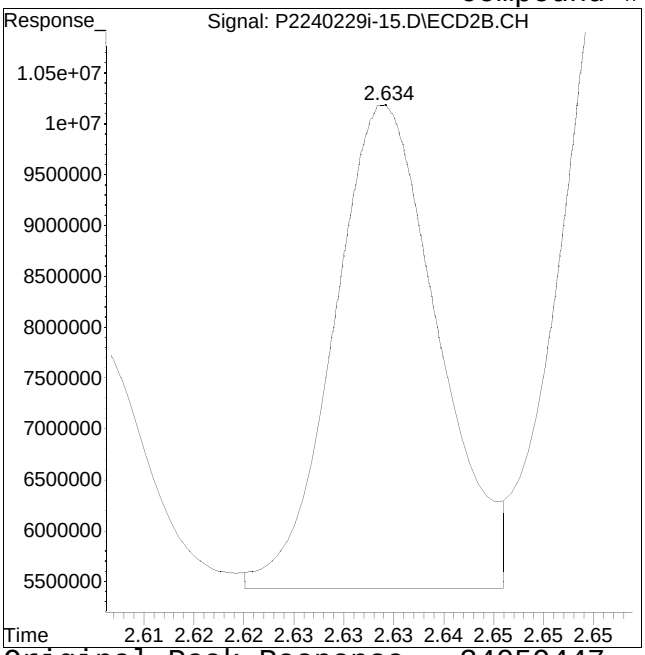
Manual Peak Response = 28605248 M4

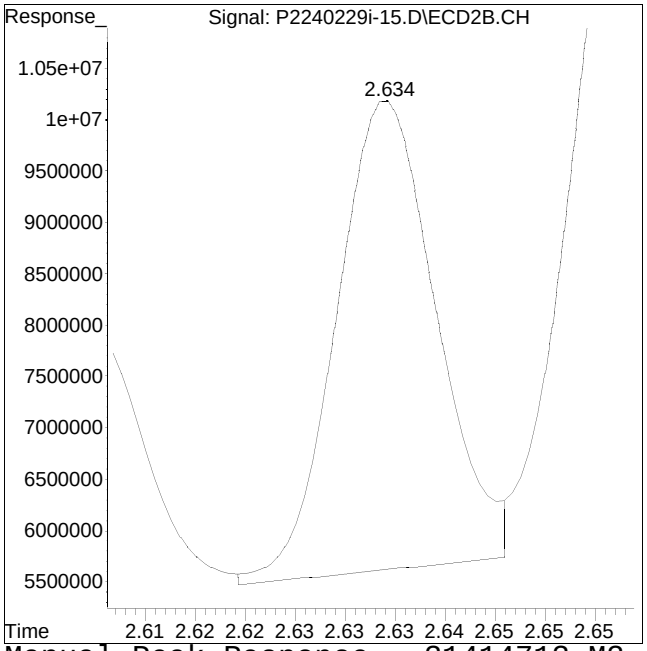
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240229I\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240229i-15.D Operator : pest2:rmp/kb
Date Inj'd : 2/29/2024 2:19 pm Instrument : Pest 2
Sample : cicv3262,42,,pp 11467 Quant Date : 2/29/2024 3:34 pm

Compound #96: 1232-5 #2



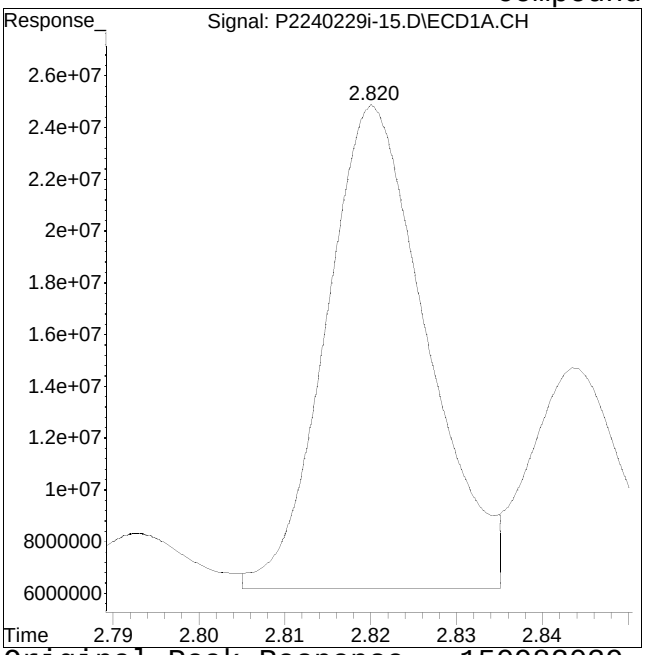


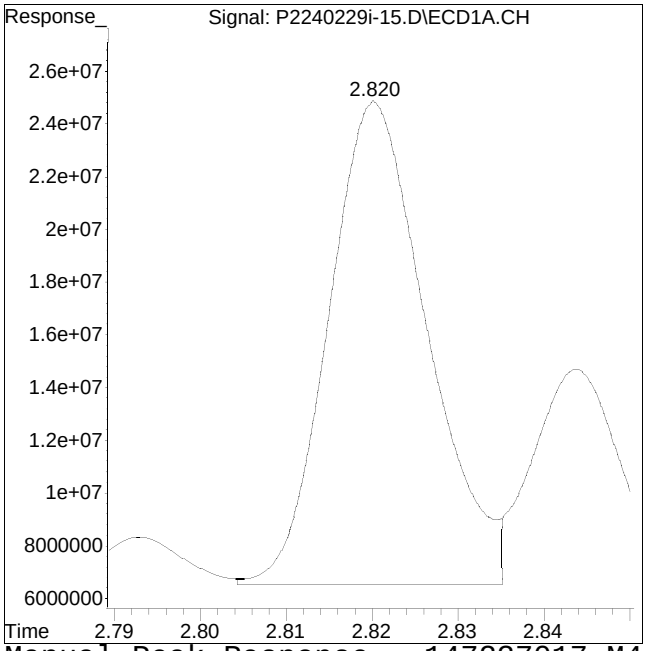
Original Peak Response = 34059447 Manual Peak Response = 31414713 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240229I\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240229i-15.D Operator : pest2:rmp/kb
Date Inj'd : 2/29/2024 2:19 pm Instrument : Pest 2
Sample : cicv3262,42,,pp 11467 Quant Date : 2/29/2024 3:34 pm

Compound #46: 1262-1



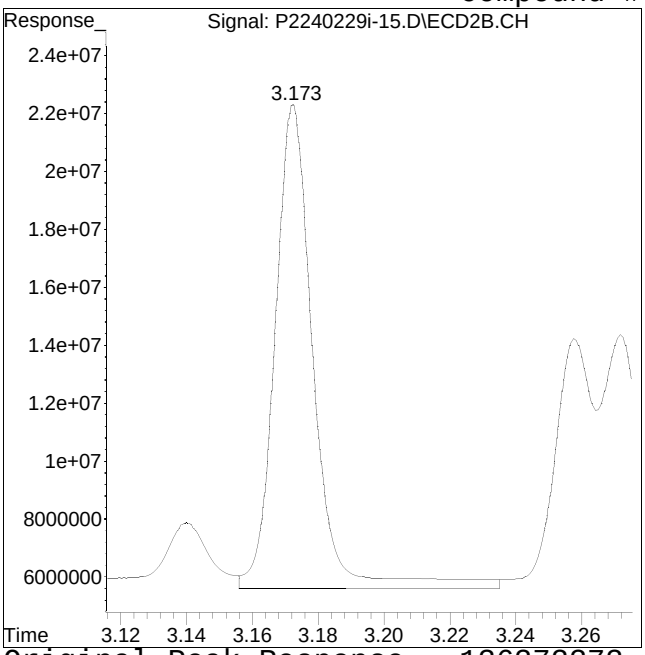


Original Peak Response = 150982039 Manual Peak Response = 147237017 M4
M4 = Poor automated baseline construction.

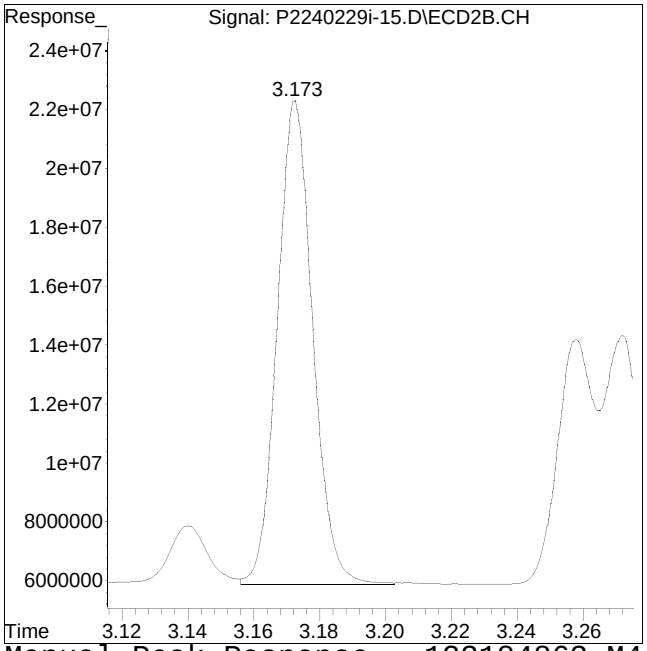
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240229I\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240229i-15.D Operator : pest2:rmp/kb
Date Inj'd : 2/29/2024 2:19 pm Instrument : Pest 2
Sample : cicv3262,42,,pp 11467 Quant Date : 2/29/2024 3:34 pm

Compound #97: 1262-1 #2



Original Peak Response = 136372373



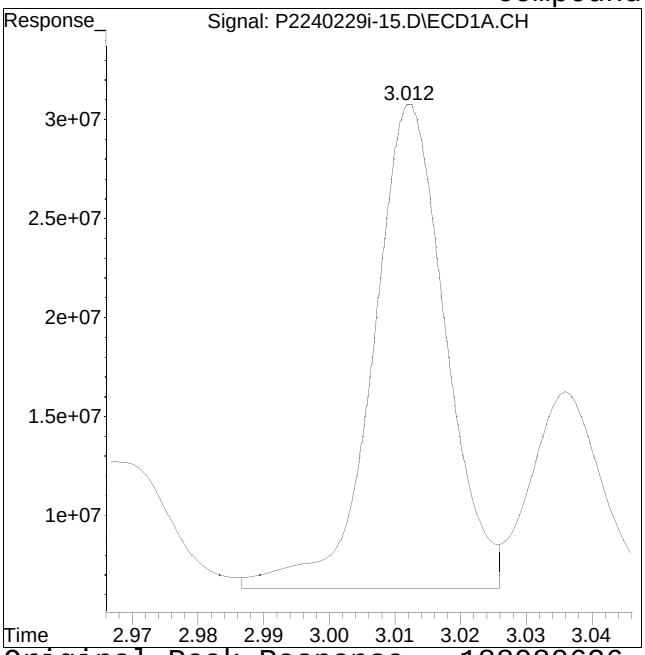
Manual Peak Response = 123184863 M4

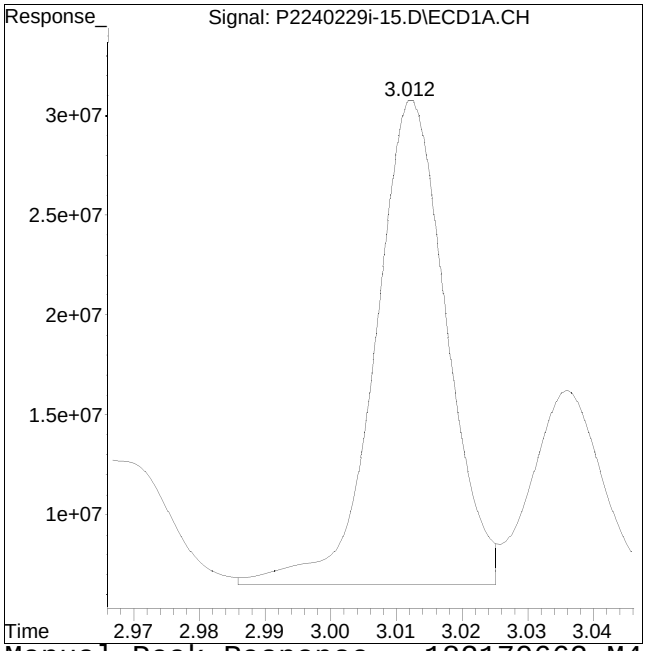
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240229I\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240229i-15.D Operator : pest2:rmp/kb
Date Inj'd : 2/29/2024 2:19 pm Instrument : Pest 2
Sample : cicv3262,42,,pp 11467 Quant Date : 2/29/2024 3:34 pm

Compound #47: 1262-2



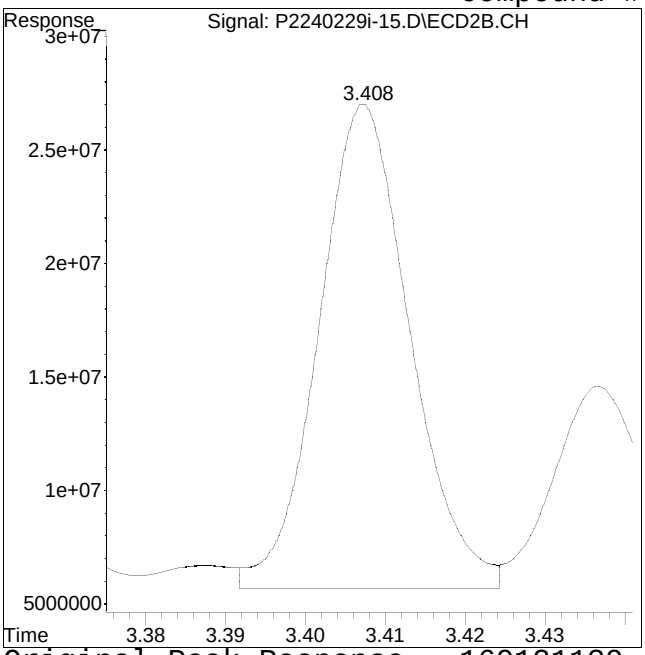


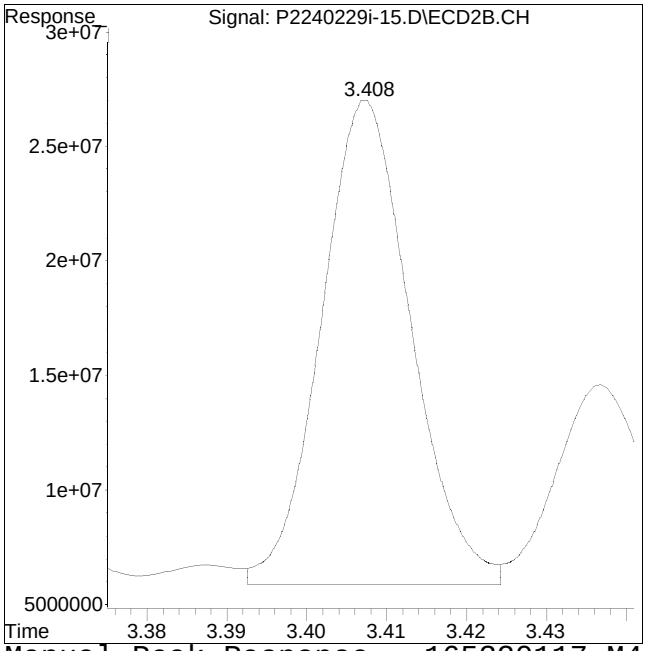
Original Peak Response = 188080626 Manual Peak Response = 182170662 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240229I\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240229i-15.D Operator : pest2:rmp/kb
Date Inj'd : 2/29/2024 2:19 pm Instrument : Pest 2
Sample : cicv3262,42,,pp 11467 Quant Date : 2/29/2024 3:34 pm

Compound #98: 1262-2 #2



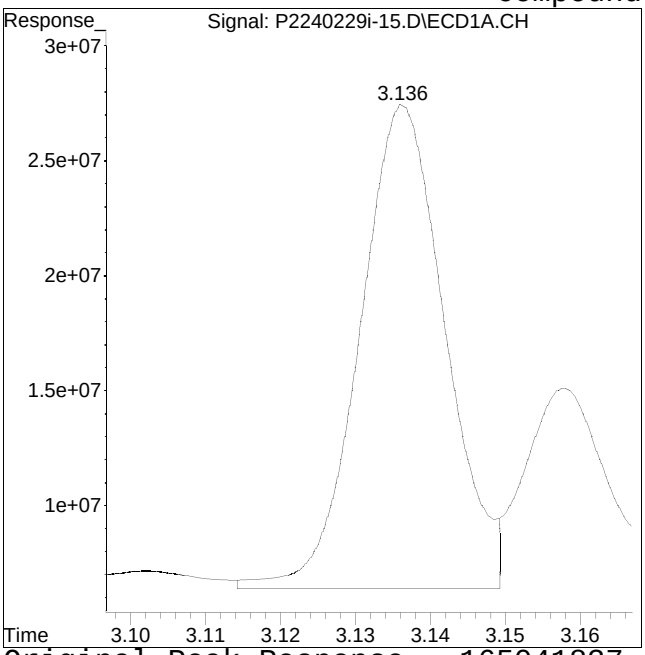


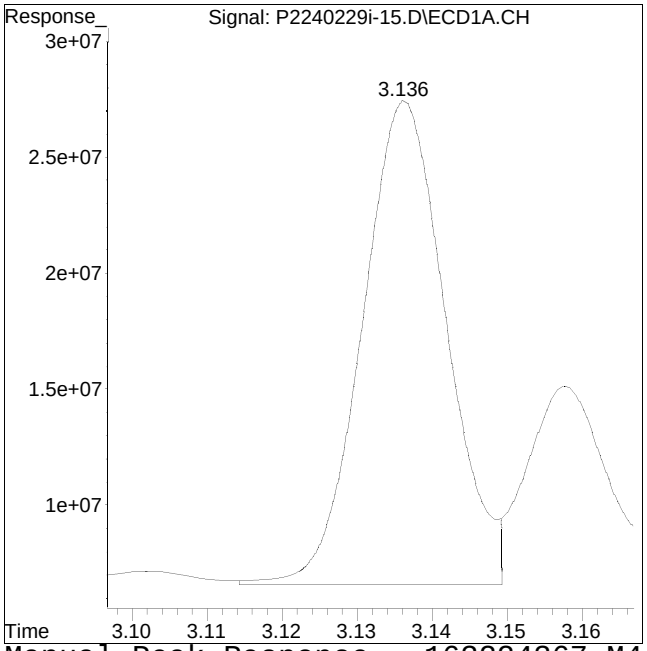
Original Peak Response = 169121139 Manual Peak Response = 165320117 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240229I\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240229i-15.D Operator : pest2:rmp/kb
Date Inj'd : 2/29/2024 2:19 pm Instrument : Pest 2
Sample : cicv3262,42,,pp 11467 Quant Date : 2/29/2024 3:34 pm

Compound #48: 1262-3



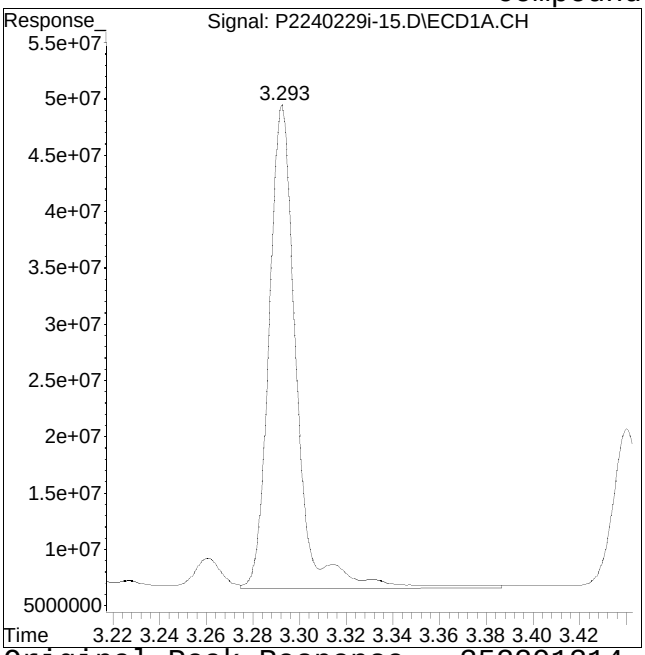


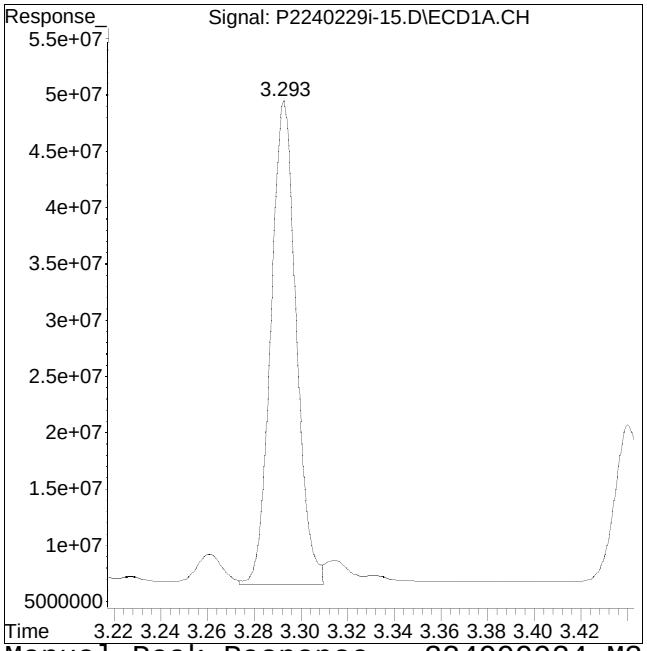
Original Peak Response = 165041837 Manual Peak Response = 163224367 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240229I\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240229i-15.D Operator : pest2:rmp/kb
Date Inj'd : 2/29/2024 2:19 pm Instrument : Pest 2
Sample : cicv3262,42,,pp 11467 Quant Date : 2/29/2024 3:34 pm

Compound #49: 1262-4





Original Peak Response = 352291314 Manual Peak Response = 324999924 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest2\2024\240229I\
Data File : P2240229i-16.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 29 Feb 2024   2:28 pm
Operator : pest2:rmp/kb
Sample   : cicv1248,42,,pp 11461
Misc   : WG1891083,, (Sig #1); ,,ical (Sig #2)
ALS Vial : 16 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Feb 29 15:49:57 2024
Quant Method : I:\PCB\Pest2\2024\240229I\P2_pcb_02_29_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Thu Feb 29 15:30:13 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
1	i	1660_1br2nb	^	1.000	1.000	0.0	103	0.00
2	s	2,4,5,6-Tetrachloro-m-xylen		1.310	1.169	10.8	92	0.00
3	s	Decachlorobiphenyl		0.949	0.923	2.7	106	0.00
14	i	2154_1br2nb	^	1.000	1.000	0.0	105	0.00
23	i	4268_1br2nb	^	1.000	1.000	0.0	100	0.00
34	i	1248_1br2nb	^	1.000	1.000	0.0	101	0.00
35	l7	1248-1		0.052	0.055	-5.8	107	0.00
36	l7	1248-2		0.067	0.059	11.9	89	0.00
37	l7	1248-3		0.059	0.054	8.5	92	0.00
38	l7	1248-4		0.053	0.046	13.2	88	0.00
39	l7	1248-5		0.045	0.040	11.1	90	0.00
40	i	3262_1br2nb	^	1.000	1.000	0.0	100	0.00

Signal #2

1	i	1660_1br2nb	^	1.000	1.000	0.0	102	0.00
2	s	2,4,5,6-Tetrachloro-m-xyl		1.231	1.092	11.3	91	0.00
3	s	Decachlorobiphenyl		0.663	0.639	3.6	106	0.00
14	i	2154_1br2nb	^	1.000	1.000	0.0	108	0.00
23	i	4268_1br2nb	^	1.000	1.000	0.0	104	0.00
34	i	1248_1br2nb	^	1.000	1.000	0.0	103	0.00
35	l7	1248-1		0.049	0.049	0.0	103	0.01
36	l7	1248-2		0.033	0.027	18.2	86	0.00

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest2\2024\240229I\
Data File : P2240229i-16.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 29 Feb 2024   2:28 pm
Operator : pest2:rmp/kb
Sample   : cicv1248,42,,pp 11461
Misc   : WG1891083,, (Sig #1); ,,ical (Sig #2)
ALS Vial : 16 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Feb 29 15:49:57 2024
Quant Method : I:\PCB\Pest2\2024\240229I\P2_pcb_02_29_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Thu Feb 29 15:30:13 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
37	l7	1248-3		0.040	0.034	15.0	88	0.00
38	l7	1248-4		0.042	0.037	11.9	92	0.00
39	l7	1248-5		0.048	0.045	6.3	99	0.00
40	i	3262_1br2nb	^	1.000	1.000	0.0	108	0.00

Evaluate Continuing Calibration Report - Not Founds

4	l1	1016-1		176.793	0.000 E3	100.0#	0#	-1.59#
5	l1	1016-2		327.203	0.000 E3	100.0#	0#	-1.73#
6	l1	1016-3		801.464	0.000 E3	100.0#	0#	-1.92#
7	l1	1016-4		344.339	0.000 E3	100.0#	0#	-1.98#
8	l1	1016-5		355.646	0.000 E3	100.0#	0#	-2.15#
9	l2	1260-1		522.526	0.000 E3	100.0#	0#	-2.69#
10	l2	1260-2		782.966	0.000 E3	100.0#	0#	-2.82#
11	l2	1260-3		489.261	0.000 E3	100.0#	0#	-3.14#
12	l2	1260-4		1.016	0.000 E6	100.0#	0#	-3.30#
13	l2	1260-5		750.560	0.000 E3	100.0#	0#	-3.44#
15	l3	1221-2		0.00043	0.00000	100.0#	0#	-1.51#
16	l3	1221-3		0.00027	0.00000	100.0#	0#	-1.58#
17	l3	1221-4		0.00105	0.00000	100.0#	0#	-1.59#
18	l4	1254-1		0.00148	0.00000	100.0#	0#	-2.31#
19	l4	1254-2		0.00276	0.00000	100.0#	0#	-2.43#
20	l4	1254-3		0.00257	0.00000	100.0#	0#	-2.61#
21	l4	1254-4		0.00198	0.00000	100.0#	0#	-2.74#
22	l4	1254-5		0.00275	0.00000	100.0#	0#	-2.96#
24	l6	1242-1		0.00059	0.00000	100.0#	0#	-1.59#
25	l6	1242-2		0.00128	0.00000	100.0#	0#	-1.73#
26	l6	1242-3		0.00270	0.00000	100.0#	0#	-1.92#
27	l6	1242-4		0.00115	0.00000	100.0#	0#	-1.98#
28	l6	1242-5		0.00088	0.00000	100.0#	0#	-2.33#

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest2\2024\240229I\
Data File : P2240229i-16.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 29 Feb 2024   2:28 pm
Operator : pest2:rmp/kb
Sample   : cicv1248,42,,pp 11461
Misc   : WG1891083,, (Sig #1); ,,ical (Sig #2)
ALS Vial : 16 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Feb 29 15:49:57 2024
Quant Method : I:\PCB\Pest2\2024\240229I\P2_pcb_02_29_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Thu Feb 29 15:30:13 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
29 l9	1268-1	0.00582	0.00000	100.0#	0#	-3.46#
30 l9	1268-2	0.00532	0.00000	100.0#	0#	-3.48#
31 l9	1268-3	0.00435	0.00000	100.0#	0#	-3.58#
32 l9	1268-4	0.00191	0.00000	100.0#	0#	-3.77#
33 l9	1268-5	0.014	0.000	100.0#	0#	-3.92#
41 l5	1232-1	0.00079	0.00000	100.0#	0#	-1.59#
42 l5	1232-2	0.00074	0.00000	100.0#	0#	-1.73#
43 l5	1232-3	0.00149	0.00000	100.0#	0#	-1.92#
44 l5	1232-4	0.00064	0.00000	100.0#	0#	-1.98#
45 l5	1232-5	0.00046	0.00000	100.0#	0#	-2.33#
46 l8	1262-1	0.00230	0.00000	100.0#	0#	-2.82#
47 l8	1262-2	0.00285	0.00000	100.0#	0#	-3.02#
48 l8	1262-3	0.00250	0.00000	100.0#	0#	-3.14#
49 l8	1262-4	0.00487	0.00000	100.0#	0#	-3.30#
50 l8	1262-5	0.00159	0.00000	100.0#	0#	-3.77#

Signal #2

4 l1	1016-1	248.412	0.000 E3	100.0#	0#	-1.81#
5 l1	1016-2	546.543	0.000 E3	100.0#	0#	-1.99#
6 l1	1016-3	1.097	0.000 E6	100.0#	0#	-2.19#
7 l1	1016-4	439.198	0.000 E3	100.0#	0#	-2.25#
8 l1	1016-5	337.039	0.000 E3	100.0#	0#	-2.46#
9 l2	1260-1	586.570	0.000 E3	100.0#	0#	-3.07#
10 l2	1260-2	725.197	0.000 E3	100.0#	0#	-3.17#
11 l2	1260-3	582.049	0.000 E3	100.0#	0#	-3.57#
12 l2	1260-4	1.198	0.000 E6	100.0#	0#	-3.70#
13 l2	1260-5	825.586	0.000 E3	100.0#	0#	-3.90#
15 l3	1221-2	139.447	0.000 E3	100.0#	0#	-1.73#
16 l3	1221-3	87.577	0.000 E3	100.0#	0#	-1.79#
17 l3	1221-4	321.880	0.000 E3	100.0#	0#	-1.81#

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest2\2024\240229I\
Data File : P2240229i-16.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 29 Feb 2024   2:28 pm
Operator : pest2:rmp/kb
Sample   : cicv1248,42,,pp 11461
Misc   : WG1891083,, (Sig #1); ,,ical (Sig #2)
ALS Vial : 16 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Feb 29 15:49:57 2024
Quant Method : I:\PCB\Pest2\2024\240229I\P2_pcb_02_29_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Thu Feb 29 15:30:13 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
18 l4	1254-1	198.614	0.000 E3	100.0#	0#	-2.64#
19 l4	1254-2	545.132	0.000 E3	100.0#	0#	-2.74#
20 l4	1254-3	765.532	0.000 E3	100.0#	0#	-2.97#
21 l4	1254-4	497.020	0.000 E3	100.0#	0#	-3.09#
22 l4	1254-5	696.237	0.000 E3	100.0#	0#	-3.36#
24 l6	1242-1	191.593	0.000 E3	100.0#	0#	-1.81#
25 l6	1242-2	432.915	0.000 E3	100.0#	0#	-1.98#
26 l6	1242-3	822.736	0.000 E3	100.0#	0#	-2.19#
27 l6	1242-4	324.421	0.000 E3	100.0#	0#	-2.25#
28 l6	1242-5	234.770	0.000 E3	100.0#	0#	-2.63#
29 l9	1268-1	1.385	0.000 E6	100.0#	0#	-3.89#
30 l9	1268-2	1.235	0.000 E6	100.0#	0#	-3.92#
31 l9	1268-3	1.038	0.000 E6	100.0#	0#	-4.06#
32 l9	1268-4	433.117	0.000 E3	100.0#	0#	-4.21#
33 l9	1268-5	3.189	0.000 E6	100.0#	0#	-4.40#
41 l5	1232-1	249.645	0.000 E3	100.0#	0#	-1.81#
42 l5	1232-2	257.716	0.000 E3	100.0#	0#	-1.98#
43 l5	1232-3	464.504	0.000 E3	100.0#	0#	-2.19#
44 l5	1232-4	180.759	0.000 E3	100.0#	0#	-2.25#
45 l5	1232-5	136.117	0.000 E3	100.0#	0#	-2.63#
46 l8	1262-1	493.998	0.000 E3	100.0#	0#	-3.17#
47 l8	1262-2	671.619	0.000 E3	100.0#	0#	-3.41#
48 l8	1262-3	615.835	0.000 E3	100.0#	0#	-3.57#
49 l8	1262-4	1.148	0.000 E6	100.0#	0#	-3.70#
50 l8	1262-5	408.151	0.000 E3	100.0#	0#	-4.21#

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0
(^) = ISTD area calculated using ICAL average

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240229I\
Data File : P2240229i-16.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Feb 2024 2:28 pm
Operator : pest2:rmp/kb
Sample : cicv1248,42,,pp 11461
Misc : WG1891083,, (Sig #1); ,,ical (Sig #2)
ALS Vial : 16 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Feb 29 15:49:57 2024
Quant Method : I:\PCB\Pest2\2024\240229I\P2_pcb_02_29_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Thu Feb 29 15:30:13 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	1.166	1.235	242.0E6	296.6E6	25.000	25.000M4
14) i	2154_1br2nb	1.166	1.235	242.0E6	296.6E6	25.000	25.000M4
23) i	4268_1br2nb	1.166	1.235	242.0E6	296.6E6	25.000	25.000M4
34) i	1248_1br2nb	1.166	1.235	242.0E6	296.6E6	25.000	25.000M4
40) i	3262_1br2nb	1.166	1.235	242.0E6	296.6E6	25.000	25.000M4
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.451	1.611	181.1E6	207.4E6	14.279	14.198
	Spiked Amount 20.000	Range 30 - 150		Recovery =		71.39%	70.99%
3) s	Decachlorobi	4.025	4.549	286.0E6	242.4E6	31.133M4	30.816
	Spiked Amount 20.000	Range 30 - 150		Recovery =		155.66%#	154.08%#
	Target Compounds						
4) l1	1016-1	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-2	0.000	0.000	0	0	N.D. d	N.D. d
6) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
8) l1	1016-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1016-1			0	0	N.D.	N.D.
	Average 1016-1					0.000	0.000
9) l2	1260-1	0.000	0.000	0	0	N.D. d	N.D. d
10) l2	1260-2	0.000	0.000	0	0	N.D. d	N.D. d
11) l2	1260-3	0.000	0.000	0	0	N.D. d	N.D. d
12) l2	1260-4	0.000	0.000	0	0	N.D. d	N.D. d
13) l2	1260-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1260-1			0	0	N.D.	N.D.
	Average 1260-1					0.000	0.000
15) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d
16) l3	1221-3	0.000	0.000	0	0	N.D. d	N.D. d
17) l3	1221-4	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240229I\
Data File : P2240229i-16.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Feb 2024 2:28 pm
Operator : pest2:rmp/kb
Sample : cicv1248,42,,pp 11461
Misc : WG1891083,, (Sig #1); ,,ical (Sig #2)
ALS Vial : 16 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Feb 29 15:49:57 2024
Quant Method : I:\PCB\Pest2\2024\240229I\P2_pcb_02_29_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Thu Feb 29 15:30:13 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Sum	1221-2			0	0	N.D.	N.D.
Average	1221-2					0.000	0.000
18) l4	1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4	1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4	1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4	1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4	1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254-1			0	0	N.D.	N.D.
Average	1254-1					0.000	0.000
24) l6	1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6	1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6	1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6	1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6	1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242-1			0	0	N.D.	N.D.
Average	1242-1					0.000	0.000
29) l9	1268-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l9	1268-2	0.000	0.000	0	0	N.D. d	N.D. d
31) l9	1268-3	0.000	0.000	0	0	N.D. d	N.D. d
32) l9	1268-4	0.000	0.000	0	0	N.D. d	N.D. d
33) l9	1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1268-1			0	0	N.D.	N.D.
Average	1268-1					0.000	0.000
35) l7	1248-1	1.919	2.187	133.1E6	145.5E6	264.465	249.698
36) l7	1248-2	2.050	2.333	142.3E6	80280949	218.742M3	207.379
37) l7	1248-3	2.147	2.460	130.2E6	101.0E6	227.995	212.311
38) l7	1248-4	2.329	2.635	111.4E6	109.5E6	216.665M3	221.733
39) l7	1248-5	2.342	2.659	97658687	134.4E6	222.133M3	238.393
Sum	1248-1			614.7E6	570.6E6	1150.001	1129.513

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240229I\
Data File : P2240229i-16.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Feb 2024 2:28 pm
Operator : pest2:rmp/kb
Sample : cicv1248,42,,pp 11461
Misc : WG1891083,, (Sig #1); ,,ical (Sig #2)
ALS Vial : 16 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Feb 29 15:49:57 2024
Quant Method : I:\PCB\Pest2\2024\240229I\P2_pcb_02_29_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Thu Feb 29 15:30:13 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Average	1248-1					230.000	225.903
41) l5	1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5	1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5	1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5	1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5	1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1232-1			0	0	N.D.	N.D.
Average	1232-1					0.000	0.000
46) l8	1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8	1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8	1262-3	0.000	0.000	0	0	N.D. d	N.D. d
49) l8	1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50) l8	1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

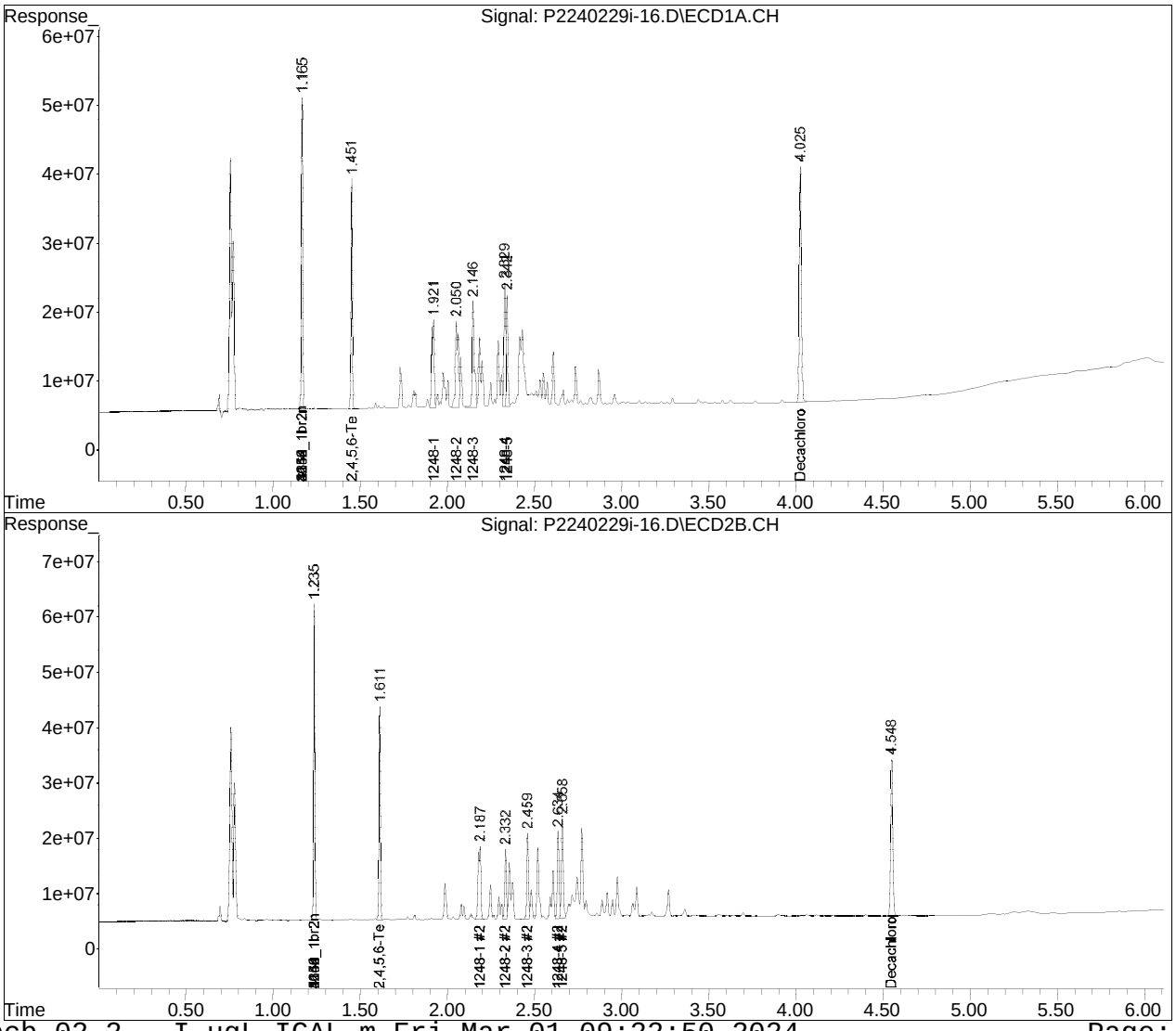
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PCB\Pest2\2024\240229I\
Data File : P2240229i-16.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Feb 2024 2:28 pm
Operator : pest2:rmp/kb
Sample : cicv1248,42,,pp 11461
Misc : WG1891083,, (Sig #1); ,,ical (Sig #2)
ALS Vial : 16 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Feb 29 15:49:57 2024
Quant Method : I:\PCB\Pest2\2024\240229I\P2_pcb_02_29_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Thu Feb 29 15:30:13 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

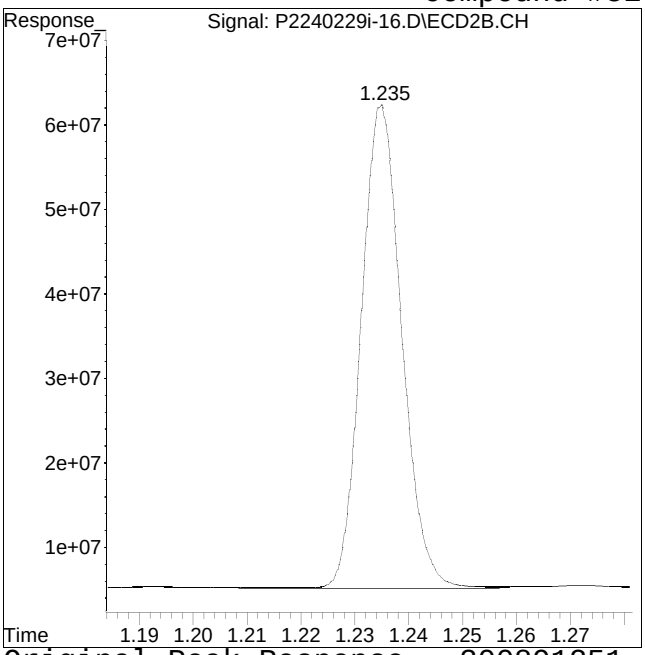
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

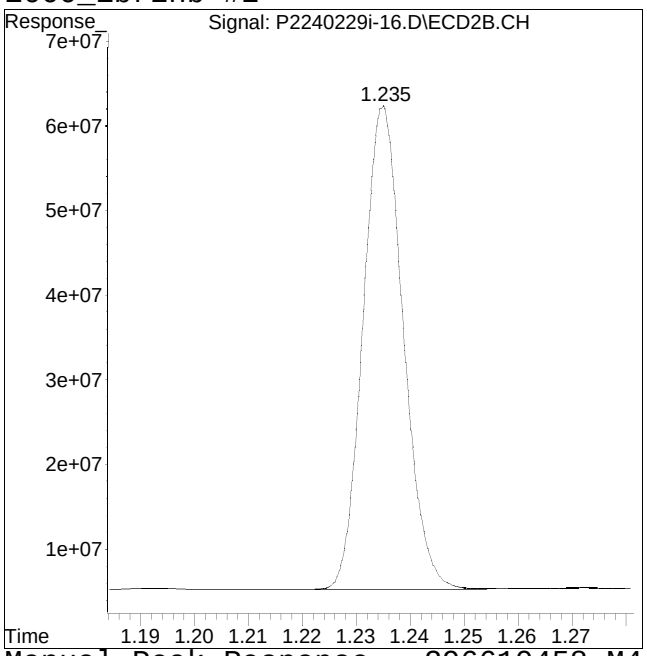


Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240229I\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240229i-16.D Operator : pest2:rmp/kb
Date Inj'd : 2/29/2024 2:28 pm Instrument : Pest 2
Sample : cicv1248,42,,pp 11461 Quant Date : 2/29/2024 3:47 pm

Compound #52: 1660_1br2nb #2



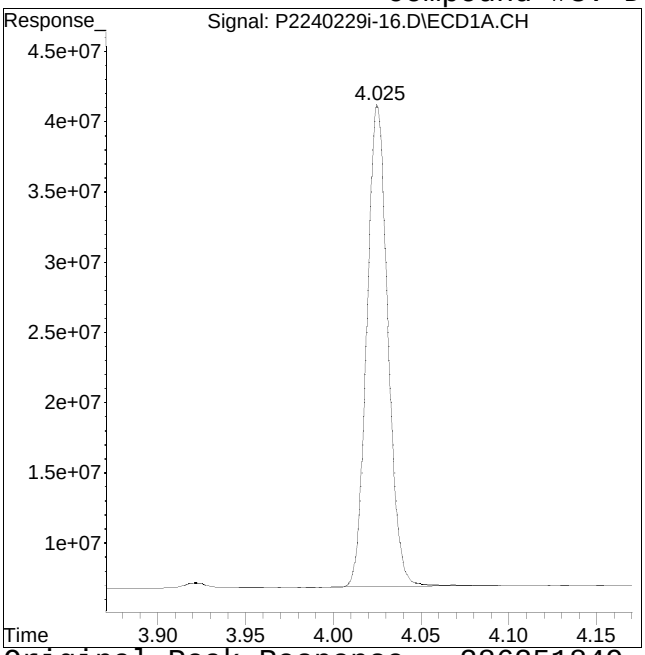


Original Peak Response = 300891251 Manual Peak Response = 296610458 M4
M4 = Poor automated baseline construction.

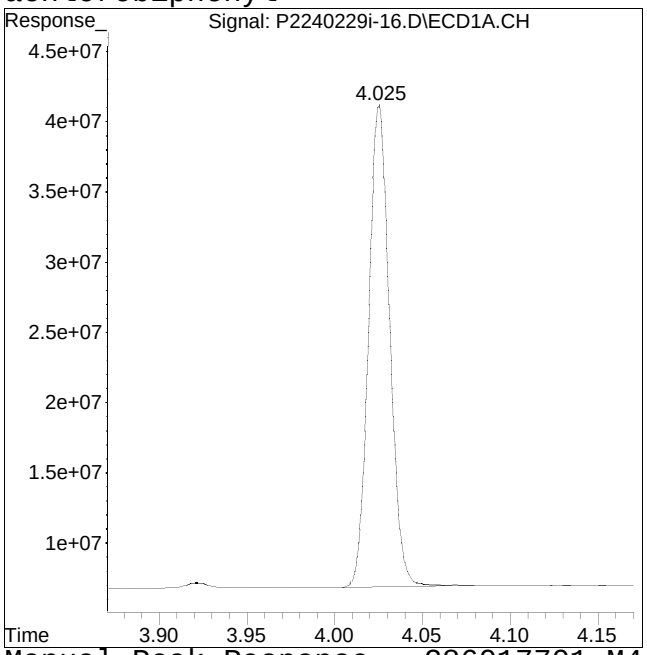
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240229I\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240229i-16.D Operator : pest2:rmp/kb
Date Inj'd : 2/29/2024 2:28 pm Instrument : Pest 2
Sample : cicv1248,42,,pp 11461 Quant Date : 2/29/2024 3:47 pm

Compound #3: Decachlorobiphenyl



Original Peak Response = 286251849



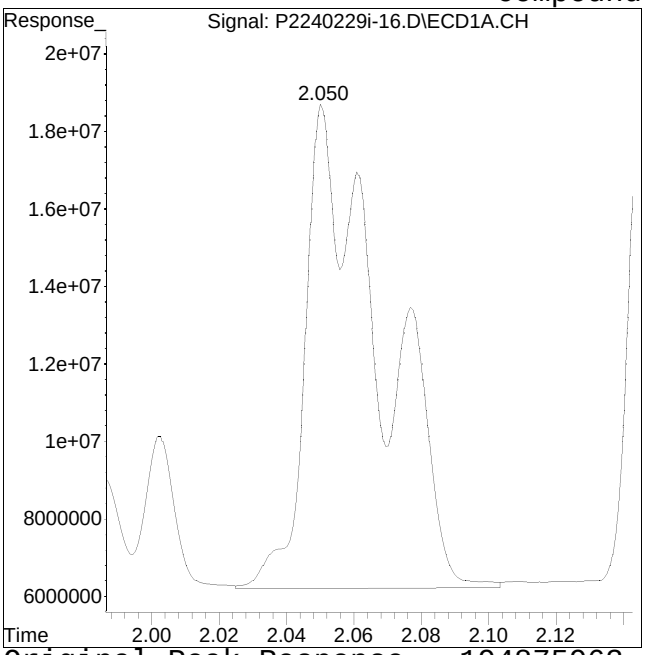
Manual Peak Response = 286017701 M4

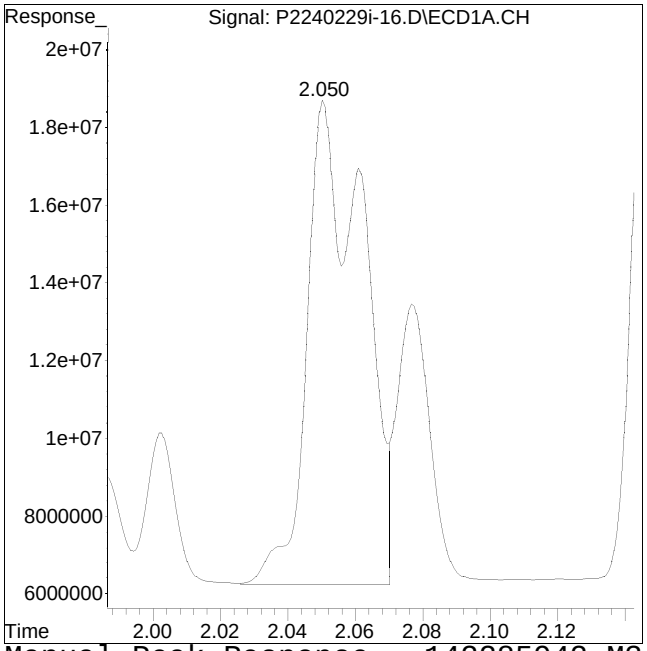
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240229I\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240229i-16.D Operator : pest2:rmp/kb
Date Inj'd : 2/29/2024 2:28 pm Instrument : Pest 2
Sample : cicv1248,42,,pp 11461 Quant Date : 2/29/2024 3:47 pm

Compound #36: 1248-2



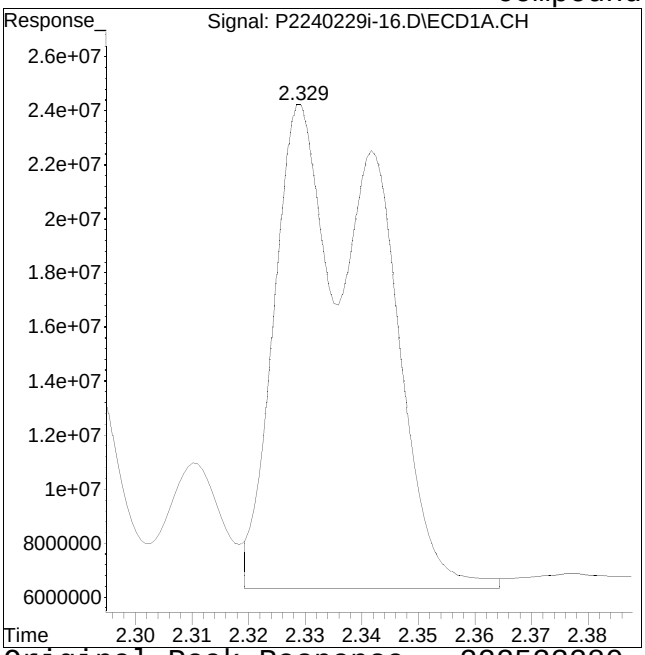


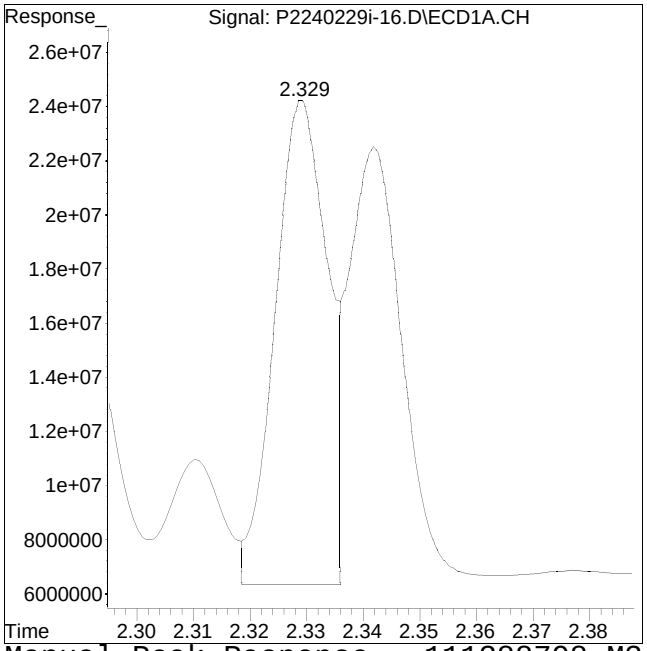
Original Peak Response = 194875963 Manual Peak Response = 142285942 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240229I\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240229i-16.D Operator : pest2:rmp/kb
Date Inj'd : 2/29/2024 2:28 pm Instrument : Pest 2
Sample : cicv1248,42,,pp 11461 Quant Date : 2/29/2024 3:47 pm

Compound #38: 1248-4



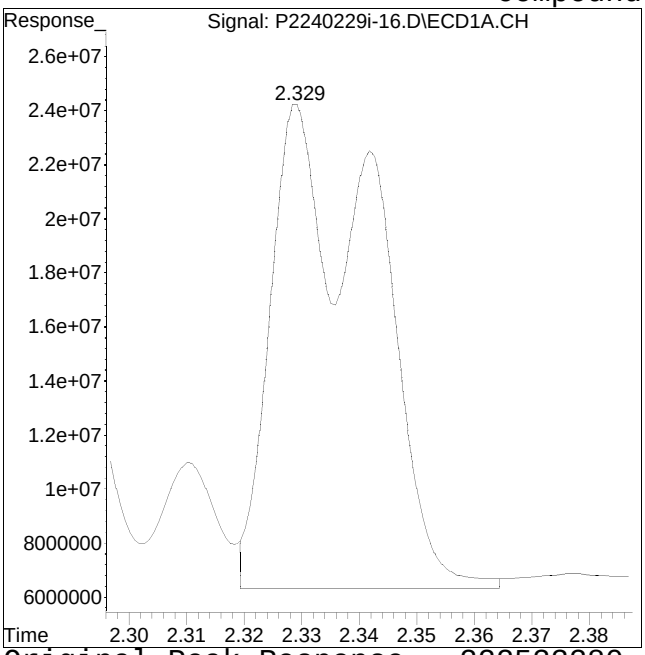


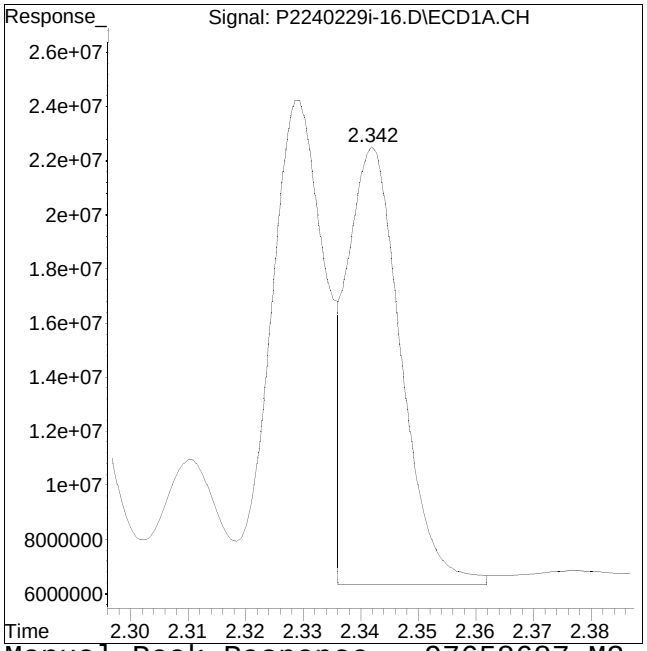
Original Peak Response = 222533380 Manual Peak Response = 111388798 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240229I\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240229i-16.D Operator : pest2:rmp/kb
Date Inj'd : 2/29/2024 2:28 pm Instrument : Pest 2
Sample : cicv1248,42,,pp 11461 Quant Date : 2/29/2024 3:47 pm

Compound #39: 1248-5





Original Peak Response = 222533380 Manual Peak Response = 97658687 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest2\2024\240229I\
Data File : P2240229i-17.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 29 Feb 2024   2:37 pm
Operator : pest2:rmp/kb
Sample   : cicv2154,42,,pp 11460
Misc   : WG1891083,, (Sig #1); ,,ical (Sig #2)
ALS Vial : 17 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Feb 29 16:02:48 2024
Quant Method : I:\PCB\Pest2\2024\240229I\P2_pcb_02_29_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Thu Feb 29 16:00:47 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
1	i	1660_1br2nb	^	1.000	1.000	0.0	103	0.00
2	s	2,4,5,6-Tetrachloro-m-xylen		1.310	1.089	16.9	85	0.00
3	s	Decachlorobiphenyl		0.949	0.868	8.5	99	0.00
14	i	2154_1br2nb	^	1.000	1.000	0.0	104	0.00
15	l3	1221-2		0.013	0.011	15.4	88	0.00
16	l3	1221-3		0.00801	0.00675	15.7	88	0.00
17	l3	1221-4		0.031	0.027	12.9	90	0.00
18	l4	1254-1		0.044	0.041	6.8	97	0.00
19	l4	1254-2		0.082	0.078	4.9	99	0.00
20	l4	1254-3		0.077	0.074	3.9	101	0.00
21	l4	1254-4		0.059	0.056	5.1	98	0.00
22	l4	1254-5		0.082	0.072	12.2	91	0.00
23	i	4268_1br2nb	^	1.000	1.000	0.0	99	0.00
34	i	1248_1br2nb	^	1.000	1.000	0.0	101	0.00
40	i	3262_1br2nb	^	1.000	1.000	0.0	99	0.00

Signal #2

1	i	1660_1br2nb	^	1.000	1.000	0.0	101	0.00
2	s	2,4,5,6-Tetrachloro-m-xyl		1.231	1.059	14.0	88	0.00
3	s	Decachlorobiphenyl		0.663	0.613	7.5	101	0.00
14	i	2154_1br2nb	^	1.000	1.000	0.0	107	0.00
15	l3	1221-2		0.013	0.011	15.4	92	0.00
16	l3	1221-3		0.00794	0.00679	14.5	91	0.00
17	l3	1221-4		0.029	0.025	13.8	92	0.00

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest2\2024\240229I\
Data File : P2240229i-17.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 29 Feb 2024   2:37 pm
Operator : pest2:rmp/kb
Sample   : cicv2154,42,,pp 11460
Misc   : WG1891083,, (Sig #1); ,,ical (Sig #2)
ALS Vial : 17 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Feb 29 16:02:48 2024
Quant Method : I:\PCB\Pest2\2024\240229I\P2_pcb_02_29_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Thu Feb 29 16:00:47 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF		%Dev	Area%	Dev(Min)
18	l4	1254-1		0.018	0.021		-16.7	126	0.00
19	l4	1254-2		0.049	0.045		8.2	97	0.00
20	l4	1254-3		0.069	0.067		2.9	103	0.00
21	l4	1254-4		0.045	0.043		4.4	102	0.00
22	l4	1254-5		0.063	0.059		6.3	100	0.00
23	i	4268_1br2nb	^	1.000	1.000		0.0	103	0.00
34	i	1248_1br2nb	^	1.000	1.000		0.0	102	0.00
40	i	3262_1br2nb	^	1.000	1.000		0.0	107	0.00

Evaluate Continuing Calibration Report - Not Founds

4	l1	1016-1	176.793	0.000	E3	100.0#	0#	-1.59#
5	l1	1016-2	327.203	0.000	E3	100.0#	0#	-1.73#
6	l1	1016-3	801.464	0.000	E3	100.0#	0#	-1.92#
7	l1	1016-4	344.339	0.000	E3	100.0#	0#	-1.98#
8	l1	1016-5	355.646	0.000	E3	100.0#	0#	-2.15#
9	l2	1260-1	522.526	0.000	E3	100.0#	0#	-2.69#
10	l2	1260-2	782.966	0.000	E3	100.0#	0#	-2.82#
11	l2	1260-3	489.261	0.000	E3	100.0#	0#	-3.14#
12	l2	1260-4	1.016	0.000	E6	100.0#	0#	-3.30#
13	l2	1260-5	750.560	0.000	E3	100.0#	0#	-3.44#
24	l6	1242-1	0.00059	0.00000		100.0#	0#	-1.59#
25	l6	1242-2	0.00128	0.00000		100.0#	0#	-1.73#
26	l6	1242-3	0.00270	0.00000		100.0#	0#	-1.92#
27	l6	1242-4	0.00115	0.00000		100.0#	0#	-1.98#
28	l6	1242-5	0.00088	0.00000		100.0#	0#	-2.33#
29	l9	1268-1	0.00582	0.00000		100.0#	0#	-3.46#
30	l9	1268-2	0.00532	0.00000		100.0#	0#	-3.48#

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest2\2024\240229I\
Data File : P2240229i-17.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 29 Feb 2024   2:37 pm
Operator : pest2:rmp/kb
Sample   : cicv2154,42,,pp 11460
Misc   : WG1891083,, (Sig #1); ,,ical (Sig #2)
ALS Vial : 17 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Feb 29 16:02:48 2024
Quant Method : I:\PCB\Pest2\2024\240229I\P2_pcb_02_29_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Thu Feb 29 16:00:47 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
31	l9	1268-3	0.00435	0.00000	100.0#	0#	-3.58#
32	l9	1268-4	0.00191	0.00000	100.0#	0#	-3.77#
33	l9	1268-5	0.014	0.000	100.0#	0#	-3.92#
35	l7	1248-1	0.00180	0.00000	100.0#	0#	-1.91#
36	l7	1248-2	0.00233	0.00000	100.0#	0#	-2.05#
37	l7	1248-3	0.00205	0.00000	100.0#	0#	-2.15#
38	l7	1248-4	0.00184	0.00000	100.0#	0#	-2.33#
39	l7	1248-5	0.00158	0.00000	100.0#	0#	-2.34#
41	l5	1232-1	0.00079	0.00000	100.0#	0#	-1.59#
42	l5	1232-2	0.00074	0.00000	100.0#	0#	-1.73#
43	l5	1232-3	0.00149	0.00000	100.0#	0#	-1.92#
44	l5	1232-4	0.00064	0.00000	100.0#	0#	-1.98#
45	l5	1232-5	0.00046	0.00000	100.0#	0#	-2.33#
46	l8	1262-1	0.00230	0.00000	100.0#	0#	-2.82#
47	l8	1262-2	0.00285	0.00000	100.0#	0#	-3.02#
48	l8	1262-3	0.00250	0.00000	100.0#	0#	-3.14#
49	l8	1262-4	0.00487	0.00000	100.0#	0#	-3.30#
50	l8	1262-5	0.00159	0.00000	100.0#	0#	-3.77#

Signal #2

4	l1	1016-1	248.412	0.000 E3	100.0#	0#	-1.81#
5	l1	1016-2	546.543	0.000 E3	100.0#	0#	-1.99#
6	l1	1016-3	1.097	0.000 E6	100.0#	0#	-2.19#
7	l1	1016-4	439.198	0.000 E3	100.0#	0#	-2.25#
8	l1	1016-5	337.039	0.000 E3	100.0#	0#	-2.46#
9	l2	1260-1	586.570	0.000 E3	100.0#	0#	-3.07#
10	l2	1260-2	725.197	0.000 E3	100.0#	0#	-3.17#
11	l2	1260-3	582.049	0.000 E3	100.0#	0#	-3.57#
12	l2	1260-4	1.198	0.000 E6	100.0#	0#	-3.70#
13	l2	1260-5	825.586	0.000 E3	100.0#	0#	-3.90#

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest2\2024\240229I\
Data File : P2240229i-17.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 29 Feb 2024   2:37 pm
Operator : pest2:rmp/kb
Sample   : cicv2154,42,,pp 11460
Misc   : WG1891083,, (Sig #1); ,,ical (Sig #2)
ALS Vial : 17 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Feb 29 16:02:48 2024
Quant Method : I:\PCB\Pest2\2024\240229I\P2_pcb_02_29_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Thu Feb 29 16:00:47 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
24 l6	1242-1	191.593	0.000 E3	100.0#	0#	-1.81#
25 l6	1242-2	432.915	0.000 E3	100.0#	0#	-1.98#
26 l6	1242-3	822.736	0.000 E3	100.0#	0#	-2.19#
27 l6	1242-4	324.421	0.000 E3	100.0#	0#	-2.25#
28 l6	1242-5	234.770	0.000 E3	100.0#	0#	-2.63#
29 l9	1268-1	1.385	0.000 E6	100.0#	0#	-3.89#
30 l9	1268-2	1.235	0.000 E6	100.0#	0#	-3.92#
31 l9	1268-3	1.038	0.000 E6	100.0#	0#	-4.06#
32 l9	1268-4	433.117	0.000 E3	100.0#	0#	-4.21#
33 l9	1268-5	3.189	0.000 E6	100.0#	0#	-4.40#
35 l7	1248-1	563.976	0.000 E3	100.0#	0#	-2.18#
36 l7	1248-2	374.750	0.000 E3	100.0#	0#	-2.33#
37 l7	1248-3	460.366	0.000 E3	100.0#	0#	-2.46#
38 l7	1248-4	477.972	0.000 E3	100.0#	0#	-2.63#
39 l7	1248-5	545.938	0.000 E3	100.0#	0#	-2.66#
41 l5	1232-1	249.645	0.000 E3	100.0#	0#	-1.81#
42 l5	1232-2	257.716	0.000 E3	100.0#	0#	-1.98#
43 l5	1232-3	464.504	0.000 E3	100.0#	0#	-2.19#
44 l5	1232-4	180.759	0.000 E3	100.0#	0#	-2.25#
45 l5	1232-5	136.117	0.000 E3	100.0#	0#	-2.63#
46 l8	1262-1	493.998	0.000 E3	100.0#	0#	-3.17#
47 l8	1262-2	671.619	0.000 E3	100.0#	0#	-3.41#
48 l8	1262-3	615.835	0.000 E3	100.0#	0#	-3.57#
49 l8	1262-4	1.148	0.000 E6	100.0#	0#	-3.70#
50 l8	1262-5	408.151	0.000 E3	100.0#	0#	-4.21#

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0
(^) = ISTD area calculated using ICAL average

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240229I\
Data File : P2240229i-17.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Feb 2024 2:37 pm
Operator : pest2:rmp/kb
Sample : cicv2154,42,,pp 11460
Misc : WG1891083,, (Sig #1); ,,ical (Sig #2)
ALS Vial : 17 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Feb 29 16:02:48 2024
Quant Method : I:\PCB\Pest2\2024\240229I\P2_pcb_02_29_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Thu Feb 29 16:00:47 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	1.166	1.235	240.2E6	293.8E6	25.000M4	25.000M4
14) i	2154_1br2nb	1.166	1.235	240.2E6	293.8E6	25.000M4	25.000M4
23) i	4268_1br2nb	1.166	1.235	240.2E6	293.8E6	25.000M4	25.000M4
34) i	1248_1br2nb	1.166	1.235	240.2E6	293.8E6	25.000M4	25.000M4
40) i	3262_1br2nb	1.166	1.235	240.2E6	293.8E6	25.000M4	25.000M4
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.453	1.611	167.5E6	199.2E6	13.302	13.764
	Spiked Amount 20.000	Range 30 - 150		Recovery =		66.51%	68.82%
3) s	Decachlorobi	4.028	4.551	267.1E6	230.5E6	29.286	29.582
	Spiked Amount 20.000	Range 30 - 150		Recovery =		146.43%	147.91%
	Target Compounds						
4) l1	1016-1	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-2	0.000	0.000	0	0	N.D. d	N.D. d
6) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
8) l1	1016-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1016-1			0	0	N.D.	N.D.
	Average 1016-1					0.000	0.000
9) l2	1260-1	0.000	0.000	0	0	N.D. d	N.D. d
10) l2	1260-2	0.000	0.000	0	0	N.D. d	N.D. d
11) l2	1260-3	0.000	0.000	0	0	N.D. d	N.D. d
12) l2	1260-4	0.000	0.000	0	0	N.D. d	N.D. d
13) l2	1260-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1260-1			0	0	N.D.	N.D.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240229I\
Data File : P2240229i-17.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Feb 2024 2:37 pm
Operator : pest2:rmp/kb
Sample : cicv2154,42,,pp 11460
Misc : WG1891083,, (Sig #1); ,,ical (Sig #2)
ALS Vial : 17 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Feb 29 16:02:48 2024
Quant Method : I:\PCB\Pest2\2024\240229I\P2_pcb_02_29_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Thu Feb 29 16:00:47 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Average	1260-1					0.000	0.000
15) l3	1221-2	1.516	1.727	26197418	32195594	211.470	216.583M4
16) l3	1221-3	1.575	1.787	16221829	19949485	210.873	213.687M4
17) l3	1221-4	1.592	1.813	64960635	74411208	216.064M3	216.861M4
Sum	1221-2			107.4E6	126.6E6	638.407	647.131
Average	1221-2					212.802	215.710
18) l4	1254-1	2.313	2.635	98512990	62349447	231.660M4	294.483M4
19) l4	1254-2	2.426	2.744	187.6E6	132.4E6	237.211M4	227.902M4
20) l4	1254-3	2.610	2.975	178.3E6	196.3E6	241.622	240.591M4
21) l4	1254-4	2.739	3.086	134.4E6	127.3E6	236.048	240.307M4
22) l4	1254-5	2.962	3.364	173.2E6	174.6E6	219.412	235.253
Sum	1254-1			772.0E6	693.1E6	1165.953	1238.535
Average	1254-1					233.191	247.707
24) l6	1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6	1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6	1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6	1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6	1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242-1			0	0	N.D.	N.D.
Average	1242-1					0.000	0.000
29) l9	1268-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l9	1268-2	0.000	0.000	0	0	N.D. d	N.D. d
31) l9	1268-3	0.000	0.000	0	0	N.D. d	N.D. d
32) l9	1268-4	0.000	0.000	0	0	N.D. d	N.D. d
33) l9	1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1268-1			0	0	N.D.	N.D.

Data Path : I:\PCB\Pest2\2024\240229I\
Data File : P2240229i-17.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Feb 2024 2:37 pm
Operator : pest2:rmp/kb
Sample : cicv2154,42,,pp 11460
Misc : WG1891083,, (Sig #1); ,,ical (Sig #2)
ALS Vial : 17 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Feb 29 16:02:48 2024
Quant Method : I:\PCB\Pest2\2024\240229I\P2_pcb_02_29_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Thu Feb 29 16:00:47 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Average 1268-1					0.000	0.000
35) l7 1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7 1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7 1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7 1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7 1248-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1248-1			0	0	N.D.	N.D.
Average 1248-1					0.000	0.000
41) l5 1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5 1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5 1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5 1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5 1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1232-1			0	0	N.D.	N.D.
Average 1232-1					0.000	0.000
46) l8 1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8 1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8 1262-3	0.000	0.000	0	0	N.D. d	N.D. d
49) l8 1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50) l8 1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument						
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240229I\
Data File : P2240229i-17.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Feb 2024 2:37 pm
Operator : pest2:rmp/kb
Sample : cicv2154,42,,pp 11460
Misc : WG1891083,, (Sig #1); ,,ical (Sig #2)
ALS Vial : 17 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Feb 29 16:02:48 2024
Quant Method : I:\PCB\Pest2\2024\240229I\P2_pcb_02_29_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Thu Feb 29 16:00:47 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l

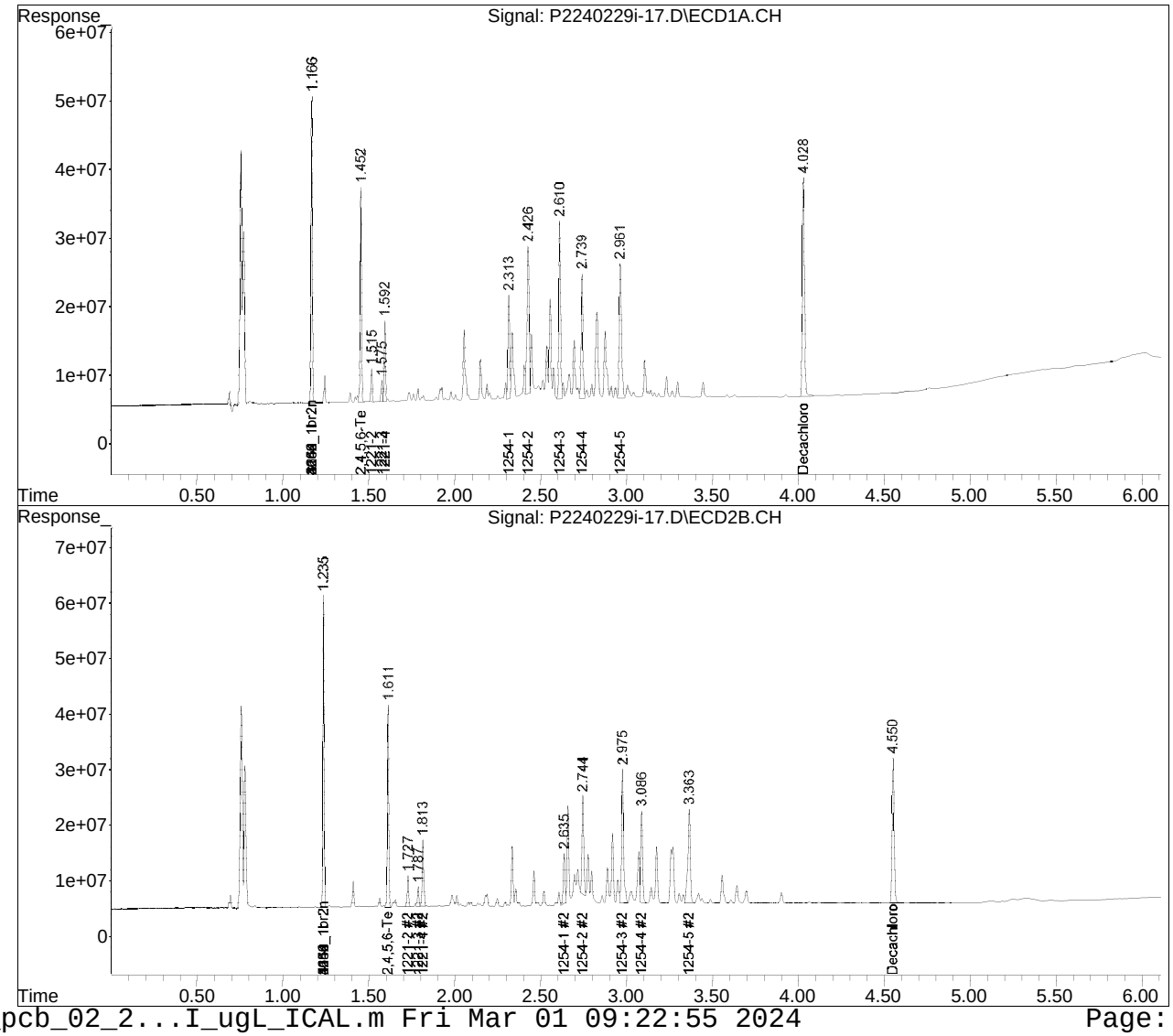
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PCB\Pest2\2024\240229I\
Data File : P2240229i-17.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Feb 2024 2:37 pm
Operator : pest2:rmp/kb
Sample : cicv2154,42,,pp 11460
Misc : WG1891083,, (Sig #1); ,,ical (Sig #2)
ALS Vial : 17 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Feb 29 16:02:48 2024
Quant Method : I:\PCB\Pest2\2024\240229I\P2_pcb_02_29_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Thu Feb 29 16:00:47 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

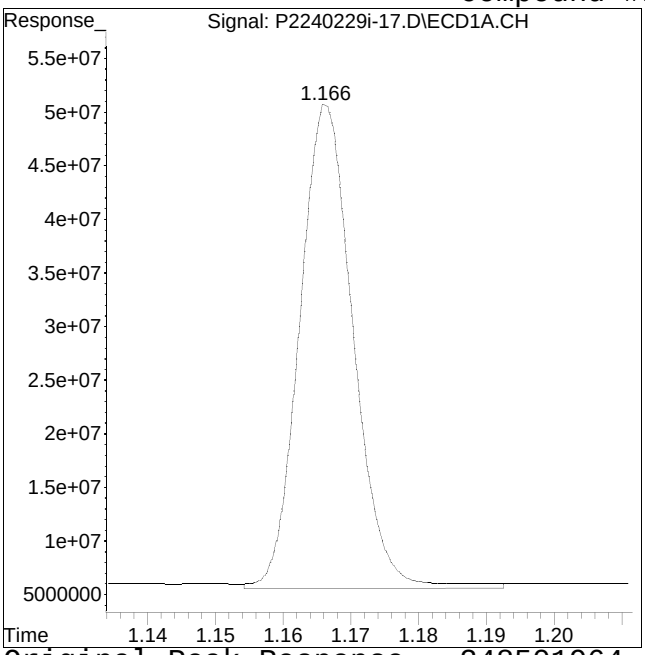
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

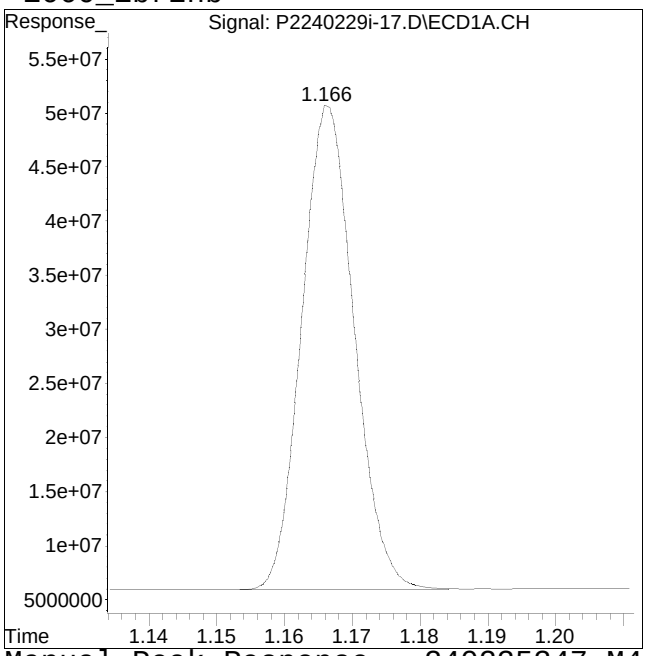


Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240229I\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240229i-17.D Operator : pest2:rmp/kb
Date Inj'd : 2/29/2024 2:37 pm Instrument : Pest 2
Sample : cicv2154,42,,pp 11460 Quant Date : 2/29/2024 4:00 pm

Compound #1: 1660_1br2nb



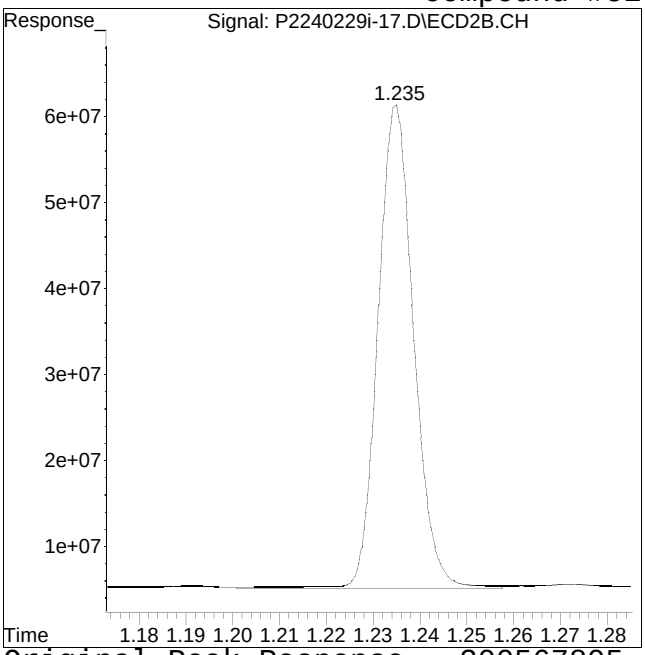


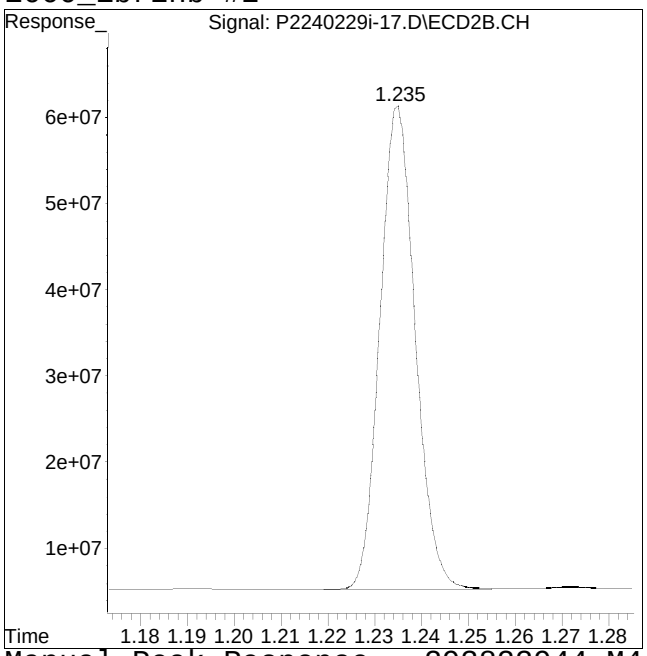
Original Peak Response = 248501964 Manual Peak Response = 240235347 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240229I\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240229i-17.D Operator : pest2:rmp/kb
Date Inj'd : 2/29/2024 2:37 pm Instrument : Pest 2
Sample : cicv2154,42,,pp 11460 Quant Date : 2/29/2024 4:00 pm

Compound #52: 1660_1br2nb #2



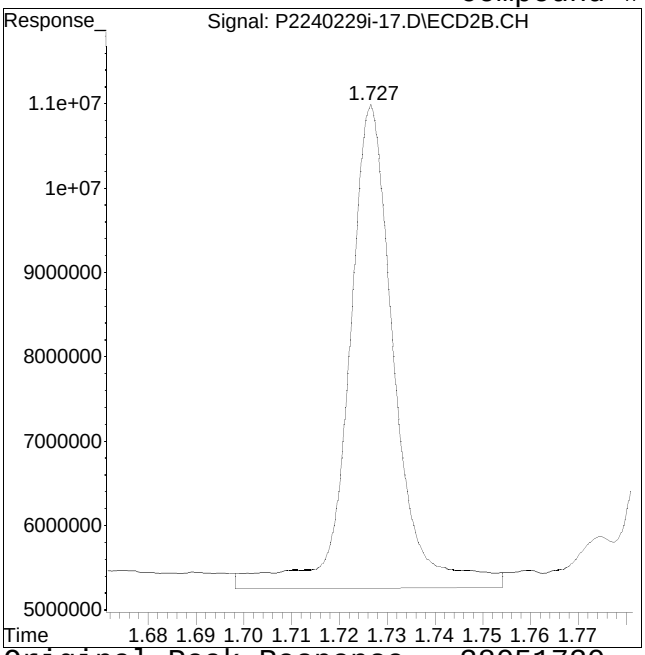


Original Peak Response = 300567805 Manual Peak Response = 293823944 M4
M4 = Poor automated baseline construction.

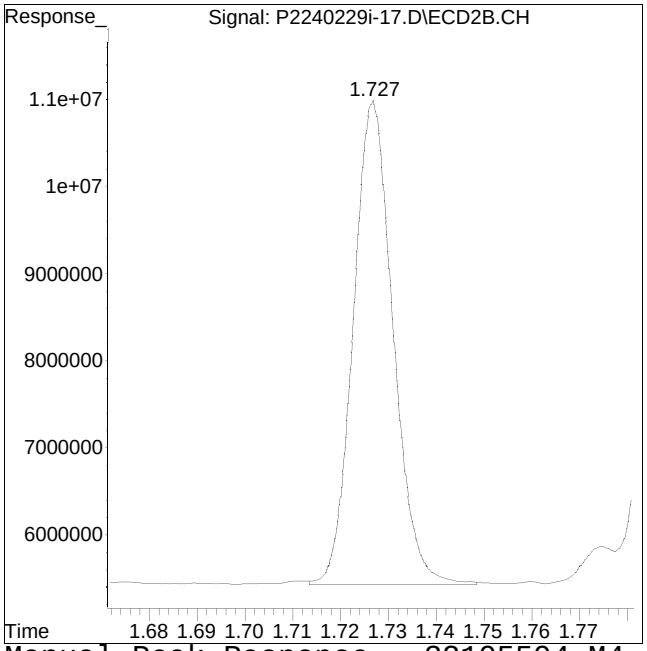
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240229I\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240229i-17.D Operator : pest2:rmp/kb
Date Inj'd : 2/29/2024 2:37 pm Instrument : Pest 2
Sample : cicv2154,42,,pp 11460 Quant Date : 2/29/2024 4:00 pm

Compound #66: 1221-2 #2



Original Peak Response = 38051730



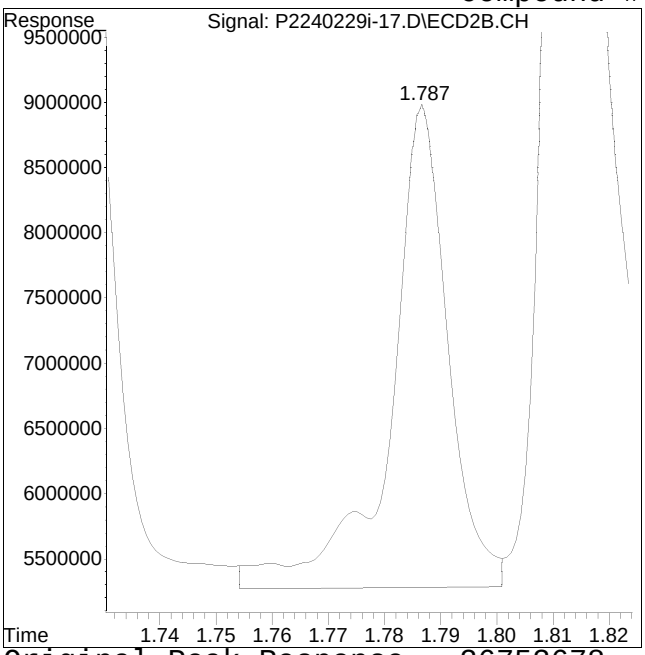
Manual Peak Response = 32195594 M4

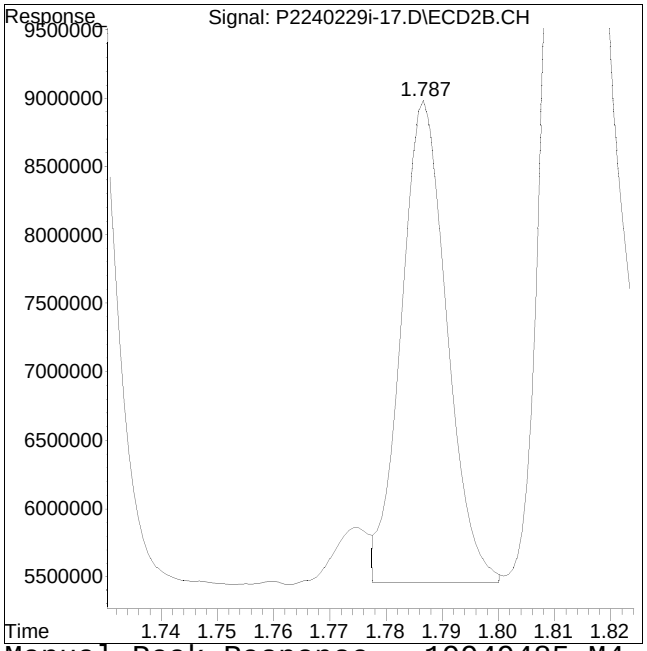
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240229I\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240229i-17.D Operator : pest2:rmp/kb
Date Inj'd : 2/29/2024 2:37 pm Instrument : Pest 2
Sample : cicv2154,42,,pp 11460 Quant Date : 2/29/2024 4:00 pm

Compound #67: 1221-3 #2



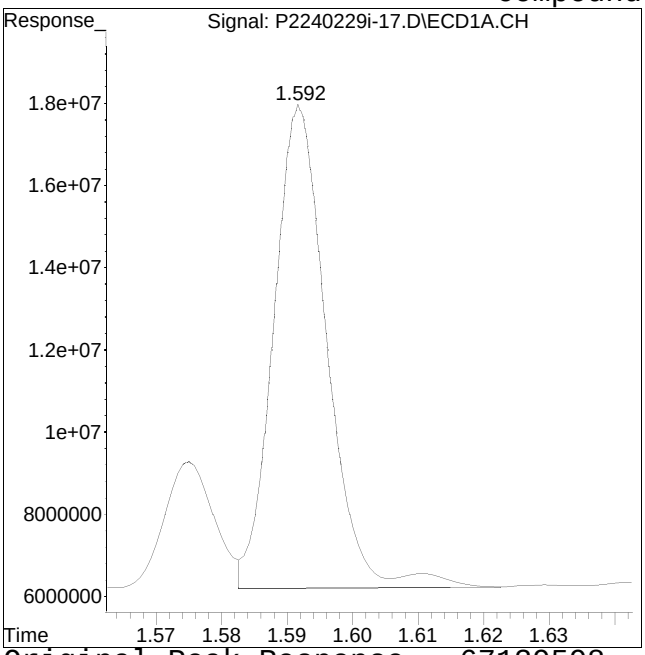


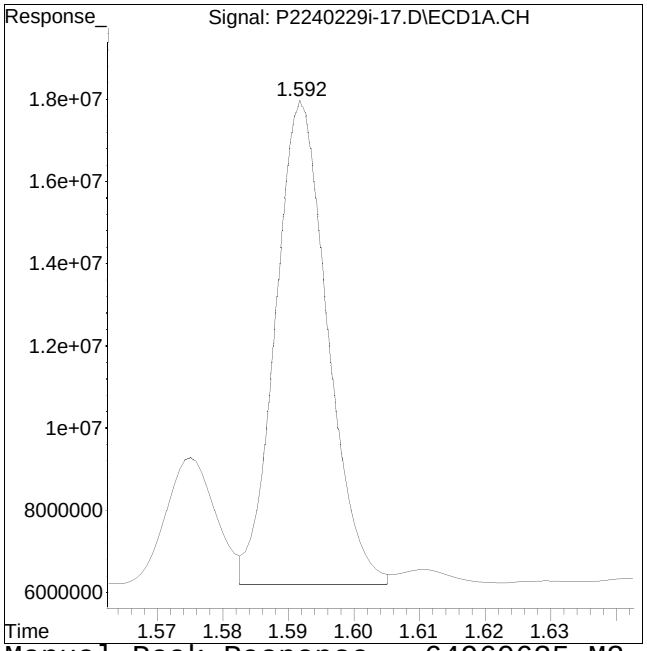
Original Peak Response = 26753678 Manual Peak Response = 19949485 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240229I\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240229i-17.D Operator : pest2:rmp/kb
Date Inj'd : 2/29/2024 2:37 pm Instrument : Pest 2
Sample : cicv2154,42,,pp 11460 Quant Date : 2/29/2024 4:00 pm

Compound #17: 1221-4



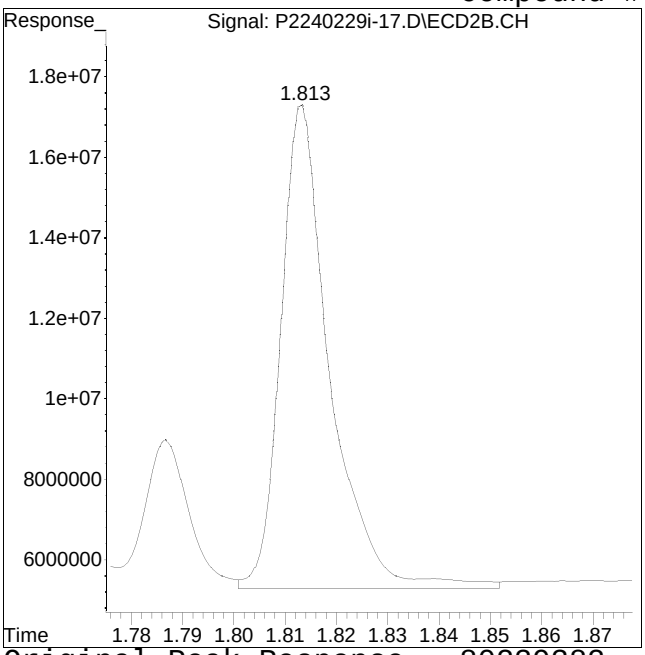


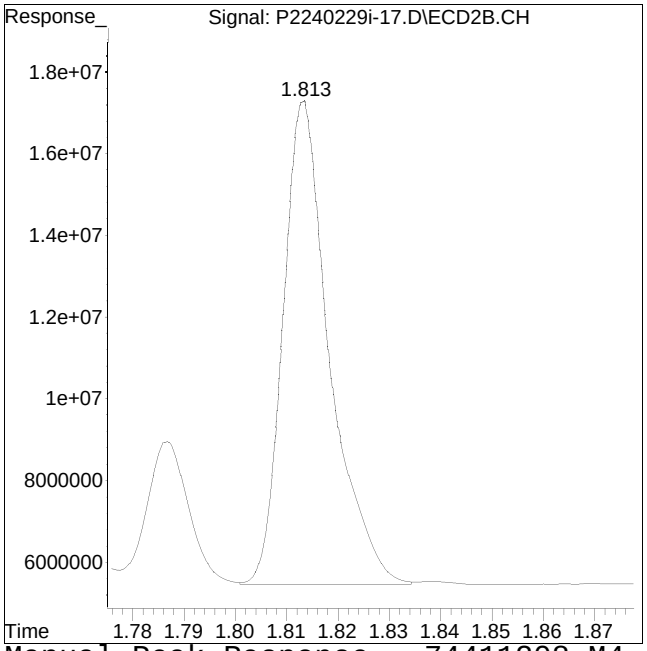
Original Peak Response = 67139598 Manual Peak Response = 64960635 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240229I\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240229i-17.D Operator : pest2:rmp/kb
Date Inj'd : 2/29/2024 2:37 pm Instrument : Pest 2
Sample : cicv2154,42,,pp 11460 Quant Date : 2/29/2024 4:00 pm

Compound #68: 1221-4 #2



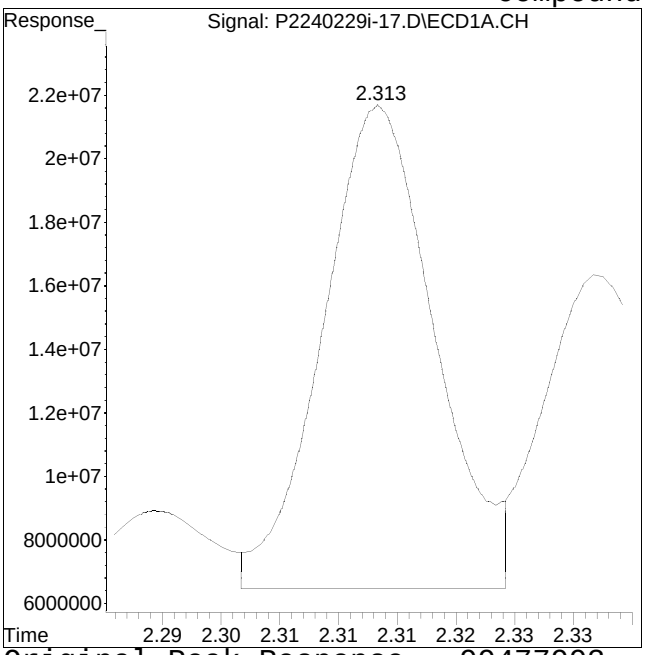


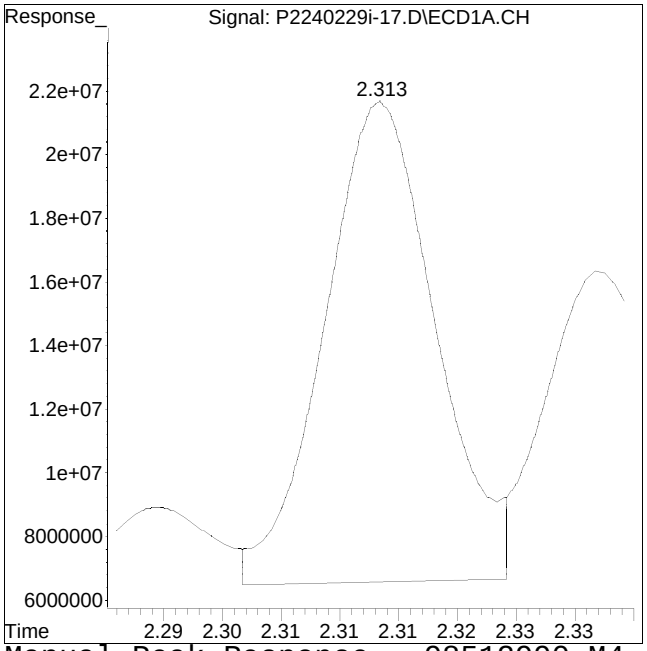
Original Peak Response = 80239382 Manual Peak Response = 74411208 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240229I\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240229i-17.D Operator : pest2:rmp/kb
Date Inj'd : 2/29/2024 2:37 pm Instrument : Pest 2
Sample : cicv2154,42,,pp 11460 Quant Date : 2/29/2024 4:00 pm

Compound #18: 1254-1



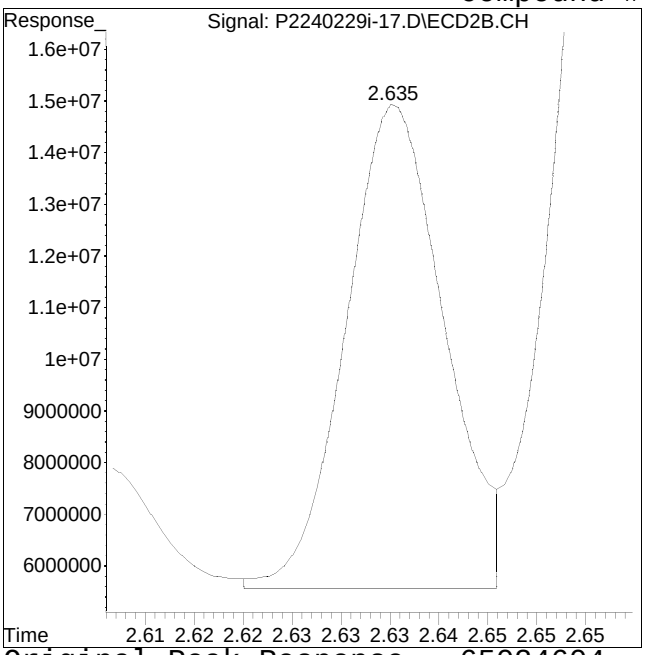


Original Peak Response = 99477993 Manual Peak Response = 98512990 M4
M4 = Poor automated baseline construction.

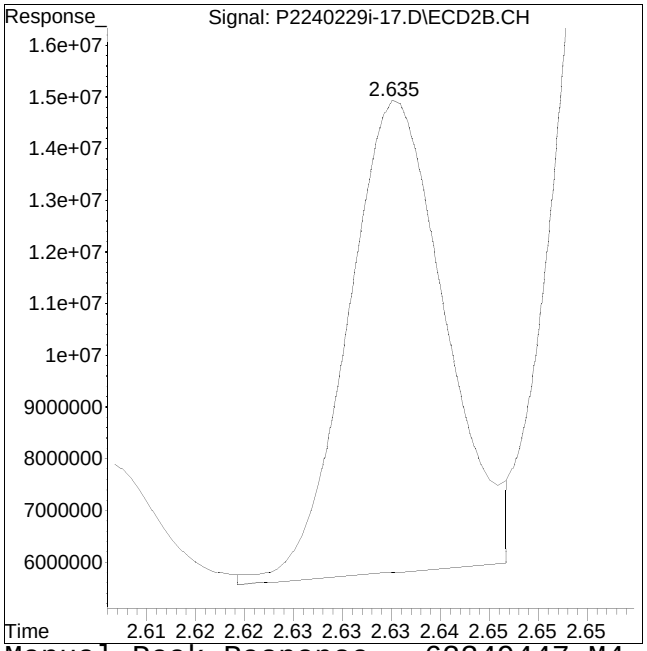
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240229I\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240229i-17.D Operator : pest2:rmp/kb
Date Inj'd : 2/29/2024 2:37 pm Instrument : Pest 2
Sample : cicv2154,42,,pp 11460 Quant Date : 2/29/2024 4:00 pm

Compound #69: 1254-1 #2



Original Peak Response = 65024604



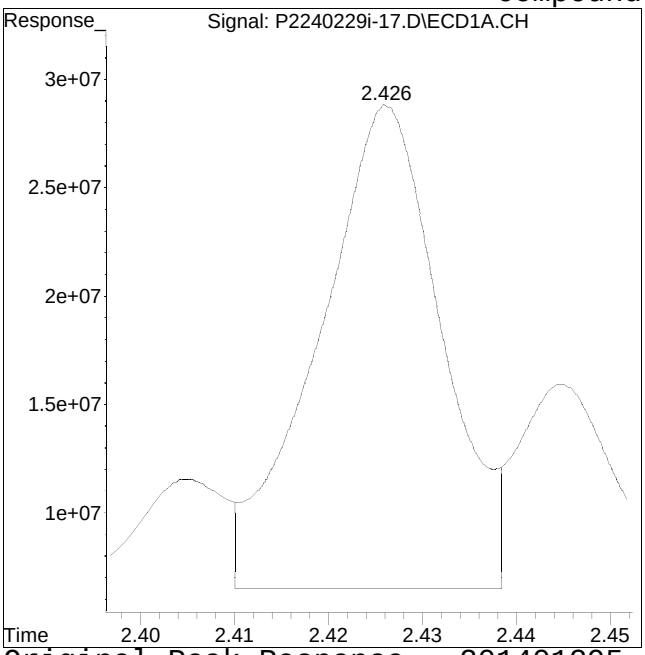
Manual Peak Response = 62349447 M4

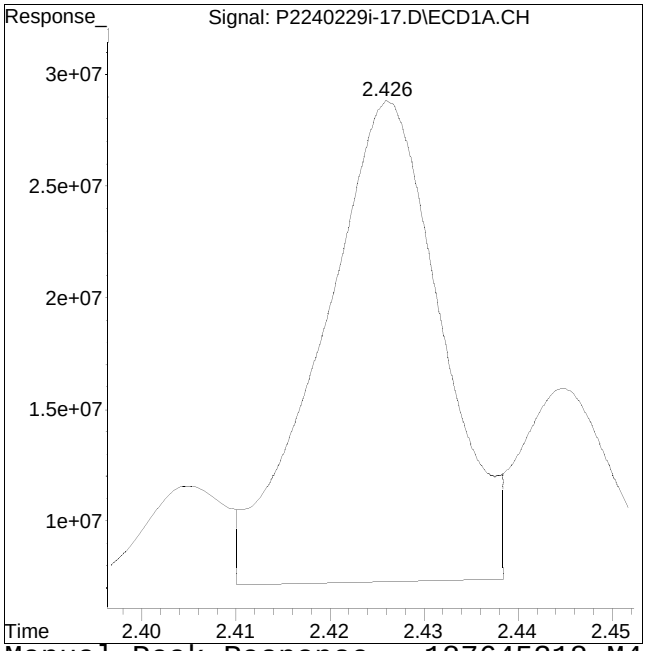
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240229I\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240229i-17.D Operator : pest2:rmp/kb
Date Inj'd : 2/29/2024 2:37 pm Instrument : Pest 2
Sample : cicv2154,42,,pp 11460 Quant Date : 2/29/2024 4:00 pm

Compound #19: 1254-2



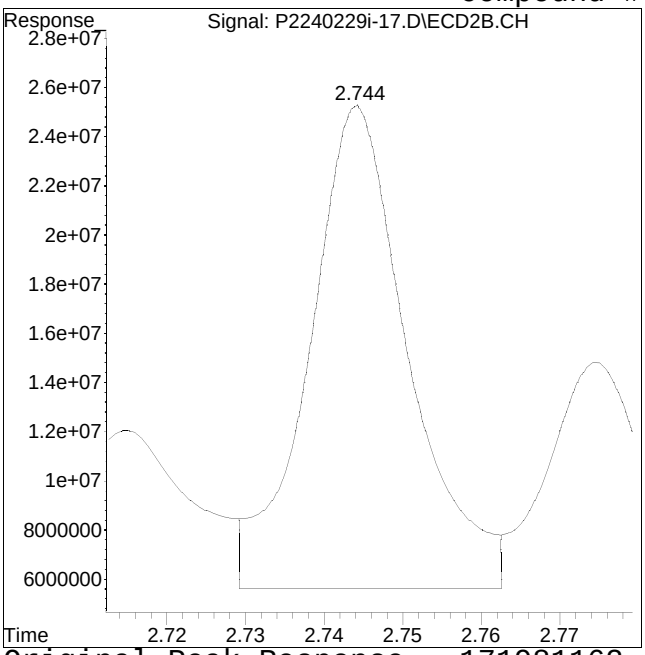


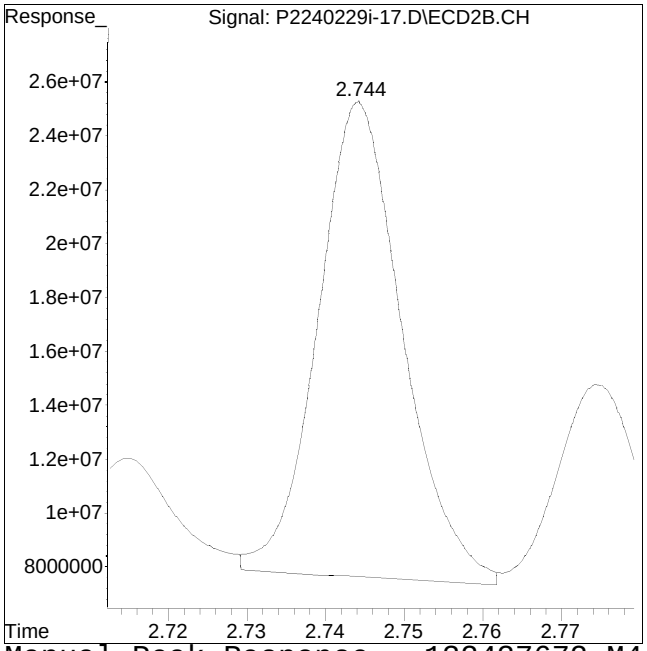
Original Peak Response = 201401295 Manual Peak Response = 187645318 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240229I\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240229i-17.D Operator : pest2:rmp/kb
Date Inj'd : 2/29/2024 2:37 pm Instrument : Pest 2
Sample : cicv2154,42,,pp 11460 Quant Date : 2/29/2024 4:00 pm

Compound #70: 1254-2 #2



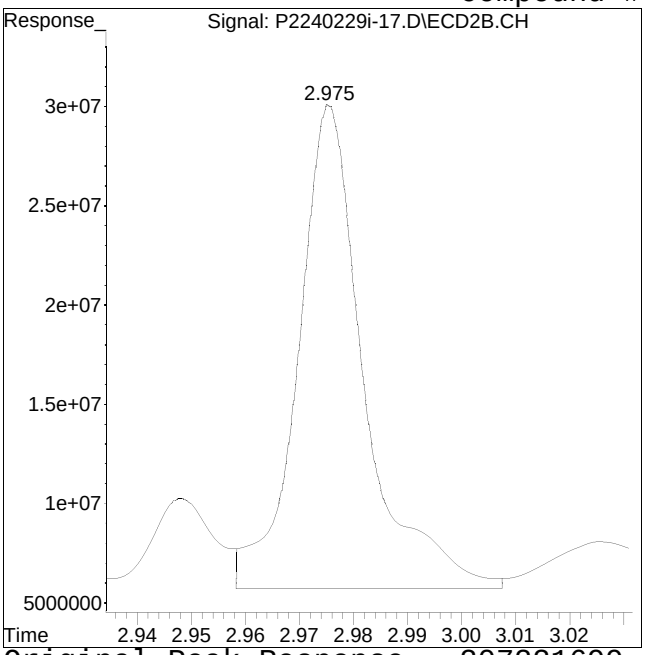


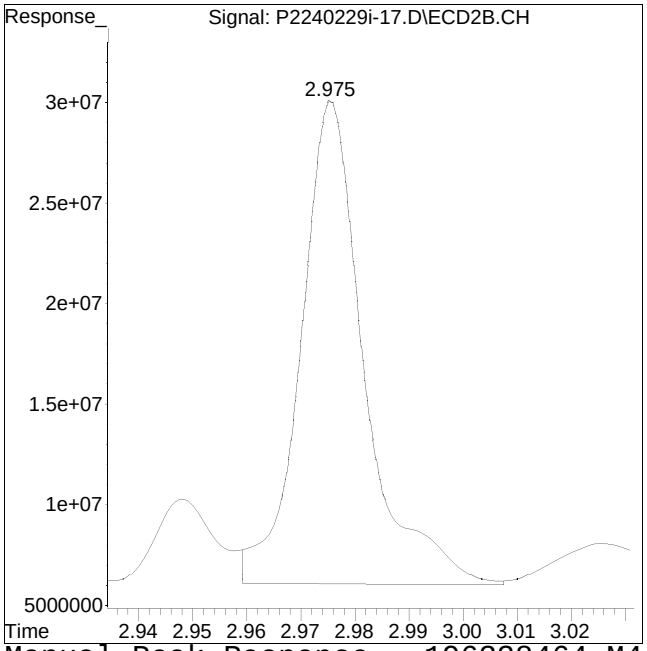
Original Peak Response = 171981162 Manual Peak Response = 132437672 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240229I\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240229i-17.D Operator : pest2:rmp/kb
Date Inj'd : 2/29/2024 2:37 pm Instrument : Pest 2
Sample : cicv2154,42,,pp 11460 Quant Date : 2/29/2024 4:00 pm

Compound #71: 1254-3 #2



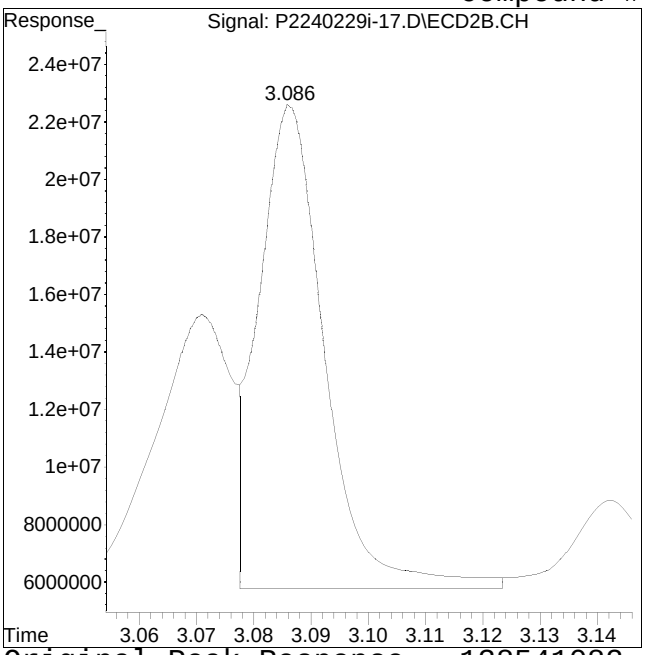


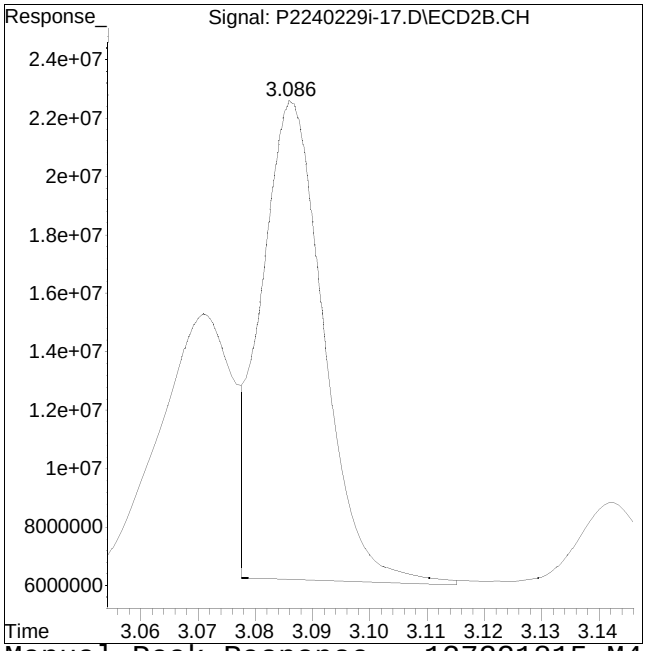
Original Peak Response = 207221699 Manual Peak Response = 196338464 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240229I\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240229i-17.D Operator : pest2:rmp/kb
Date Inj'd : 2/29/2024 2:37 pm Instrument : Pest 2
Sample : cicv2154,42,,pp 11460 Quant Date : 2/29/2024 4:00 pm

Compound #72: 1254-4 #2





Original Peak Response = 138541082 Manual Peak Response = 127321815 M4
M4 = Poor automated baseline construction.

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest2\2024\240229I\
Data File : P2240229i-18.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 29 Feb 2024   2:47 pm
Operator : pest2:rmp/kb
Sample   : cicv1660,42,,pp 11459
Misc   : WG1891083,,
ALS Vial : 18 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Feb 29 15:10:52 2024
Quant Method : I:\PCB\Pest2\2024\240229I\P2_pcb_02_29_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Thu Feb 29 15:08:23 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
1	i	1660_1br2nb	^	1.000	1.000	0.0	101	0.00
2	s	2,4,5,6-Tetrachloro-m-xylen		1.310	1.171	10.6	90	0.00
3	s	Decachlorobiphenyl		0.949	0.955	-0.6	107	0.00
4	l1	1016-1		0.023	0.020	13.0	89	0.00
5	l1	1016-2		0.043	0.044	-2.3	94	0.00
6	l1	1016-3		0.103	0.098	4.9	97	0.00
7	l1	1016-4		0.044	0.043	2.3	99	0.00
8	l1	1016-5		0.045	0.041	8.9	95	0.00
9	l2	1260-1		0.067	0.059	11.9	92	0.00
10	l2	1260-2		0.100	0.095	5.0	99	0.00
11	l2	1260-3		0.063	0.051	19.0	84	0.00
12	l2	1260-4		0.130	0.106	18.5	83	0.00
13	l2	1260-5		0.096	0.080	16.7	87	0.00
14	i	2154_1br2nb	^	1.000	1.000	0.0	103	0.00
23	i	4268_1br2nb	^	1.000	1.000	0.0	98	0.00
34	i	1248_1br2nb	^	1.000	1.000	0.0	99	0.00
40	i	3262_1br2nb	^	1.000	1.000	0.0	98	0.00

Signal #2

1	i	1660_1br2nb	^	1.000	1.000	0.0	101	0.00
2	s	2,4,5,6-Tetrachloro-m-xyl		1.231	1.103	10.4	91	0.00
3	s	Decachlorobiphenyl		0.663	0.657	0.9	108	0.00
4	l1	1016-1		0.021	0.020	4.8	97	0.00
5	l1	1016-2		0.047	0.044	6.4	96	0.00
6	l1	1016-3		0.094	0.090	4.3	100	0.00

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest2\2024\240229I\
Data File : P2240229i-18.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 29 Feb 2024   2:47 pm
Operator : pest2:rmp/kb
Sample   : cicv1660,42,,pp 11459
Misc   : WG1891083,,
ALS Vial : 18 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Feb 29 15:10:52 2024
Quant Method : I:\PCB\Pest2\2024\240229I\P2_pcb_02_29_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Thu Feb 29 15:08:23 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
7	l1	1016-4		0.038	0.036	5.3	101	0.00
8	l1	1016-5		0.029	0.028	3.4	101	0.00
9	l2	1260-1		0.050	0.049	2.0	99	0.00
10	l2	1260-2		0.062	0.056	9.7	98	0.00
11	l2	1260-3		0.050	0.043	14.0	88	0.00
12	l2	1260-4		0.103	0.081	21.4#	84	0.00
13	l2	1260-5		0.071	0.059	16.9	88	0.00
14	i	2154_1br2nb	^	1.000	1.000	0.0	106	0.00
23	i	4268_1br2nb	^	1.000	1.000	0.0	103	0.00
34	i	1248_1br2nb	^	1.000	1.000	0.0	102	0.00
40	i	3262_1br2nb	^	1.000	1.000	0.0	106	0.00

Evaluate Continuing Calibration Report - Not Founds

15	l3	1221-2	0.00043	0.00000	100.0#	0#	-1.51#
16	l3	1221-3	0.00027	0.00000	100.0#	0#	-1.58#
17	l3	1221-4	0.00105	0.00000	100.0#	0#	-1.59#
18	l4	1254-1	0.00148	0.00000	100.0#	0#	-2.31#
19	l4	1254-2	0.00276	0.00000	100.0#	0#	-2.43#
20	l4	1254-3	0.00257	0.00000	100.0#	0#	-2.61#
21	l4	1254-4	0.00198	0.00000	100.0#	0#	-2.74#
22	l4	1254-5	0.00275	0.00000	100.0#	0#	-2.96#
24	l6	1242-1	0.00059	0.00000	100.0#	0#	-1.59#
25	l6	1242-2	0.00128	0.00000	100.0#	0#	-1.73#
26	l6	1242-3	0.00270	0.00000	100.0#	0#	-1.92#
27	l6	1242-4	0.00115	0.00000	100.0#	0#	-1.98#
28	l6	1242-5	0.00088	0.00000	100.0#	0#	-2.33#

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest2\2024\240229I\
Data File : P2240229i-18.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 29 Feb 2024   2:47 pm
Operator : pest2:rmp/kb
Sample   : cicv1660,42,,pp 11459
Misc   : WG1891083,,
ALS Vial : 18 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Feb 29 15:10:52 2024
Quant Method : I:\PCB\Pest2\2024\240229I\P2_pcb_02_29_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Thu Feb 29 15:08:23 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
29	l9	1268-1	0.00582	0.00000	100.0#	0#	-3.46#
30	l9	1268-2	0.00532	0.00000	100.0#	0#	-3.48#
31	l9	1268-3	0.00435	0.00000	100.0#	0#	-3.58#
32	l9	1268-4	0.00191	0.00000	100.0#	0#	-3.77#
33	l9	1268-5	0.014	0.000	100.0#	0#	-3.92#
35	l7	1248-1	0.00180	0.00000	100.0#	0#	-1.91#
36	l7	1248-2	0.00233	0.00000	100.0#	0#	-2.05#
37	l7	1248-3	0.00205	0.00000	100.0#	0#	-2.15#
38	l7	1248-4	0.00184	0.00000	100.0#	0#	-2.33#
39	l7	1248-5	0.00158	0.00000	100.0#	0#	-2.34#
41	l5	1232-1	0.00079	0.00000	100.0#	0#	-1.59#
42	l5	1232-2	0.00074	0.00000	100.0#	0#	-1.73#
43	l5	1232-3	0.00149	0.00000	100.0#	0#	-1.92#
44	l5	1232-4	0.00064	0.00000	100.0#	0#	-1.98#
45	l5	1232-5	0.00046	0.00000	100.0#	0#	-2.33#
46	l8	1262-1	0.00230	0.00000	100.0#	0#	-2.82#
47	l8	1262-2	0.00285	0.00000	100.0#	0#	-3.02#
48	l8	1262-3	0.00250	0.00000	100.0#	0#	-3.14#
49	l8	1262-4	0.00487	0.00000	100.0#	0#	-3.30#
50	l8	1262-5	0.00159	0.00000	100.0#	0#	-3.77#

Signal #2

15	l3	1221-2	139.447	0.000 E3	100.0#	0#	-1.73#
16	l3	1221-3	87.577	0.000 E3	100.0#	0#	-1.79#
17	l3	1221-4	321.880	0.000 E3	100.0#	0#	-1.81#
18	l4	1254-1	198.614	0.000 E3	100.0#	0#	-2.64#
19	l4	1254-2	545.132	0.000 E3	100.0#	0#	-2.74#
20	l4	1254-3	765.532	0.000 E3	100.0#	0#	-2.97#
21	l4	1254-4	497.020	0.000 E3	100.0#	0#	-3.09#
22	l4	1254-5	696.237	0.000 E3	100.0#	0#	-3.36#

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest2\2024\240229I\
Data File : P2240229i-18.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 29 Feb 2024   2:47 pm
Operator : pest2:rmp/kb
Sample   : cicv1660,42,,pp 11459
Misc   : WG1891083,,
ALS Vial : 18 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Feb 29 15:10:52 2024
Quant Method : I:\PCB\Pest2\2024\240229I\P2_pcb_02_29_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Thu Feb 29 15:08:23 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
24 l6	1242-1	191.593	0.000 E3	100.0#	0#	-1.81#
25 l6	1242-2	432.915	0.000 E3	100.0#	0#	-1.98#
26 l6	1242-3	822.736	0.000 E3	100.0#	0#	-2.19#
27 l6	1242-4	324.421	0.000 E3	100.0#	0#	-2.25#
28 l6	1242-5	234.770	0.000 E3	100.0#	0#	-2.63#
29 l9	1268-1	1.385	0.000 E6	100.0#	0#	-3.89#
30 l9	1268-2	1.235	0.000 E6	100.0#	0#	-3.92#
31 l9	1268-3	1.038	0.000 E6	100.0#	0#	-4.06#
32 l9	1268-4	433.117	0.000 E3	100.0#	0#	-4.21#
33 l9	1268-5	3.189	0.000 E6	100.0#	0#	-4.40#
35 l7	1248-1	563.976	0.000 E3	100.0#	0#	-2.18#
36 l7	1248-2	374.750	0.000 E3	100.0#	0#	-2.33#
37 l7	1248-3	460.366	0.000 E3	100.0#	0#	-2.46#
38 l7	1248-4	477.972	0.000 E3	100.0#	0#	-2.63#
39 l7	1248-5	545.938	0.000 E3	100.0#	0#	-2.66#
41 l5	1232-1	249.645	0.000 E3	100.0#	0#	-1.81#
42 l5	1232-2	257.716	0.000 E3	100.0#	0#	-1.98#
43 l5	1232-3	464.504	0.000 E3	100.0#	0#	-2.19#
44 l5	1232-4	180.759	0.000 E3	100.0#	0#	-2.25#
45 l5	1232-5	136.117	0.000 E3	100.0#	0#	-2.63#
46 l8	1262-1	493.998	0.000 E3	100.0#	0#	-3.17#
47 l8	1262-2	671.619	0.000 E3	100.0#	0#	-3.41#
48 l8	1262-3	615.835	0.000 E3	100.0#	0#	-3.57#
49 l8	1262-4	1.148	0.000 E6	100.0#	0#	-3.70#
50 l8	1262-5	408.151	0.000 E3	100.0#	0#	-4.21#

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0
(^) = ISTD area calculated using ICAL average

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240229I\
Data File : P2240229i-18.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Feb 2024 2:47 pm
Operator : pest2:rmp/kb
Sample : cicv1660,42,,pp 11459
Misc : WG1891083,,
ALS Vial : 18 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Feb 29 15:10:52 2024
Quant Method : I:\PCB\Pest2\2024\240229I\P2_pcb_02_29_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Thu Feb 29 15:08:23 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	1.167	1.235	236.8E6	293.2E6	25.000M4	25.000M4
14) i	2154_1br2nb	1.167	1.235	236.8E6	293.2E6	25.000M4	25.000M4
23) i	4268_1br2nb	1.167	1.235	236.8E6	293.2E6	25.000M4	25.000M4
34) i	1248_1br2nb	1.167	1.235	236.8E6	293.2E6	25.000M4	25.000M4
40) i	3262_1br2nb	1.167	1.235	236.8E6	293.2E6	25.000M4	25.000M4
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.453	1.611	177.5E6	207.0E6	14.299M4	14.335
	Spiked Amount 20.000	Range 30 - 150		Recovery =		71.50%	71.67%
3) s	Decachlorobi	4.029	4.551	289.4E6	246.6E6	32.203	31.709
	Spiked Amount 20.000	Range 30 - 150		Recovery =		161.02%#	158.55%#
	Target Compounds						
4) l1	1016-1	1.592	1.814	47089812	57917403	219.298M3	231.171
5) l1	1016-2	1.734	1.985	104.0E6	129.9E6	257.309M3	235.528M4
6) l1	1016-3	1.924	2.188	231.0E6	263.6E6	237.622M4	238.186
7) l1	1016-4	1.979	2.248	101.8E6	105.6E6	243.406M4	238.243
8) l1	1016-5	2.150	2.460	97303923	82721800	226.496M4	243.473
	Sum 1016-1			581.2E6	639.7E6	1184.130	1186.601
	Average 1016-1					236.826	237.320
9) l2	1260-1	2.694	3.072	140.9E6	143.7E6	222.452M4	242.881M4
10) l2	1260-2	2.825	3.174	225.1E6	164.9E6	237.738M3	225.166M4
11) l2	1260-3	3.141	3.568	120.7E6	125.4E6	203.640	213.671M4

Data Path : I:\PCB\Pest2\2024\240229I\
Data File : P2240229i-18.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Feb 2024 2:47 pm
Operator : pest2:rmp/kb
Sample : cicv1660,42,,pp 11459
Misc : WG1891083,,
ALS Vial : 18 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Feb 29 15:10:52 2024
Quant Method : I:\PCB\Pest2\2024\240229I\P2_pcb_02_29_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Thu Feb 29 15:08:23 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
12) l2	1260-4	3.296	3.697	250.4E6	238.3E6	203.451M3	197.245M4
13) l2	1260-5	3.445	3.901	188.6E6	172.0E6	207.978	206.515M4
Sum	1260-1			925.7E6	844.2E6	1075.261	1085.477
Average	1260-1					215.052	217.095
15) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d
16) l3	1221-3	0.000	0.000	0	0	N.D. d	N.D. d
17) l3	1221-4	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1221-2			0	0	N.D.	N.D.
Average	1221-2					0.000	0.000
18) l4	1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4	1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4	1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4	1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4	1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254-1			0	0	N.D.	N.D.
Average	1254-1					0.000	0.000
24) l6	1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6	1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6	1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6	1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6	1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242-1			0	0	N.D.	N.D.
Average	1242-1					0.000	0.000
29) l9	1268-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l9	1268-2	0.000	0.000	0	0	N.D. d	N.D. d
31) l9	1268-3	0.000	0.000	0	0	N.D. d	N.D. d
32) l9	1268-4	0.000	0.000	0	0	N.D. d	N.D. d
33) l9	1268-5	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240229I\
Data File : P2240229i-18.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Feb 2024 2:47 pm
Operator : pest2:rmp/kb
Sample : cicv1660,42,,pp 11459
Misc : WG1891083,,
ALS Vial : 18 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Feb 29 15:10:52 2024
Quant Method : I:\PCB\Pest2\2024\240229I\P2_pcb_02_29_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Thu Feb 29 15:08:23 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Sum	1268-1			0	0	N.D.	N.D.
Average	1268-1					0.000	0.000
35) l7	1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7	1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7	1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7	1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7	1248-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1248-1			0	0	N.D.	N.D.
Average	1248-1					0.000	0.000
41) l5	1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5	1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5	1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5	1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5	1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1232-1			0	0	N.D.	N.D.
Average	1232-1					0.000	0.000
46) l8	1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8	1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8	1262-3	0.000	0.000	0	0	N.D. d	N.D. d
49) l8	1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50) l8	1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument							
Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240229I\
Data File : P2240229i-18.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Feb 2024 2:47 pm
Operator : pest2:rmp/kb
Sample : cicv1660,42,,pp 11459
Misc : WG1891083,,
ALS Vial : 18 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Feb 29 15:10:52 2024
Quant Method : I:\PCB\Pest2\2024\240229I\P2_pcb_02_29_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Thu Feb 29 15:08:23 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l

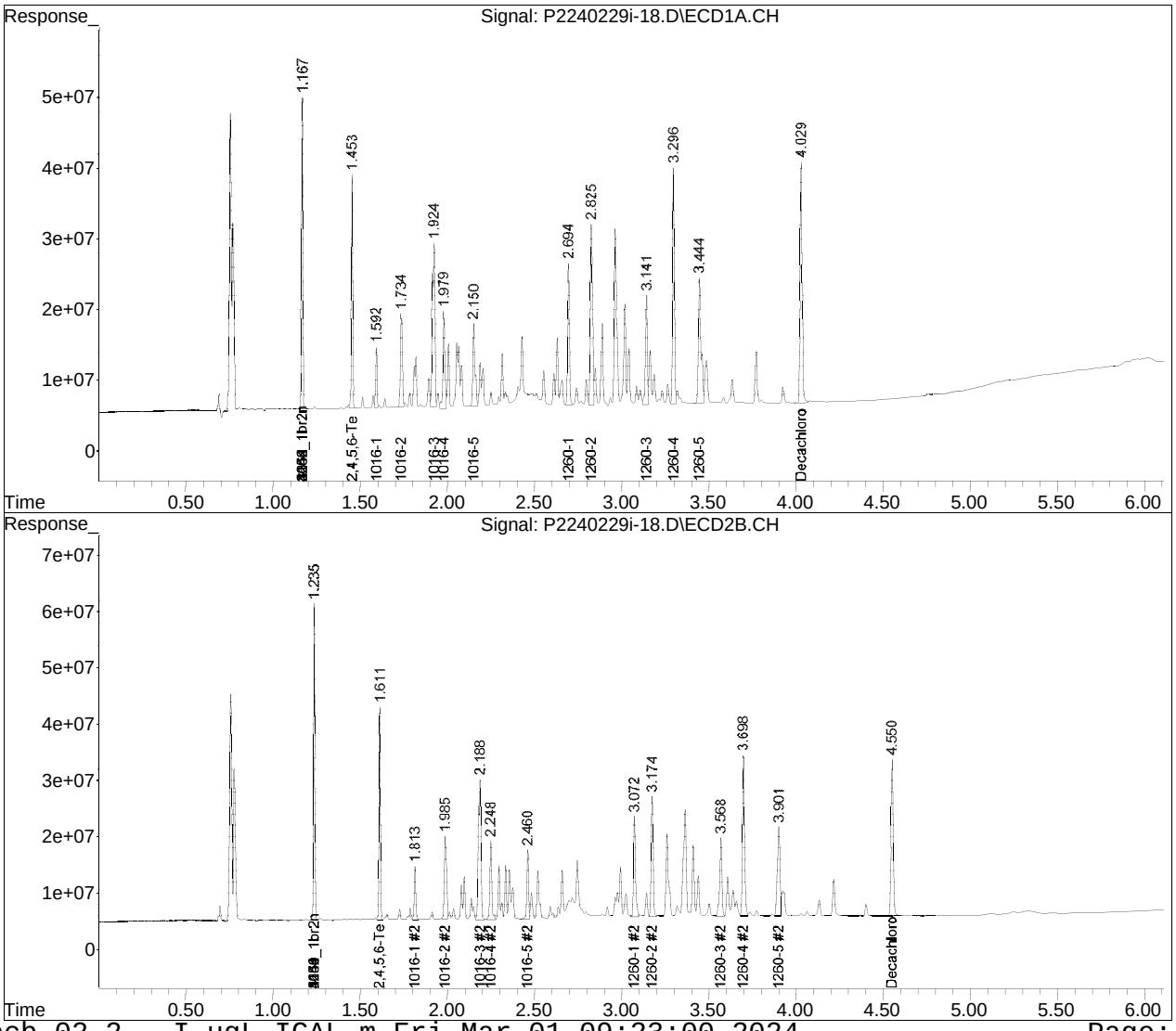
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PCB\Pest2\2024\240229I\
Data File : P2240229i-18.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Feb 2024 2:47 pm
Operator : pest2:rmp/kb
Sample : cicv1660,42,,pp 11459
Misc : WG1891083,,
ALS Vial : 18 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Feb 29 15:10:52 2024
Quant Method : I:\PCB\Pest2\2024\240229I\P2_pcb_02_29_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Thu Feb 29 15:08:23 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

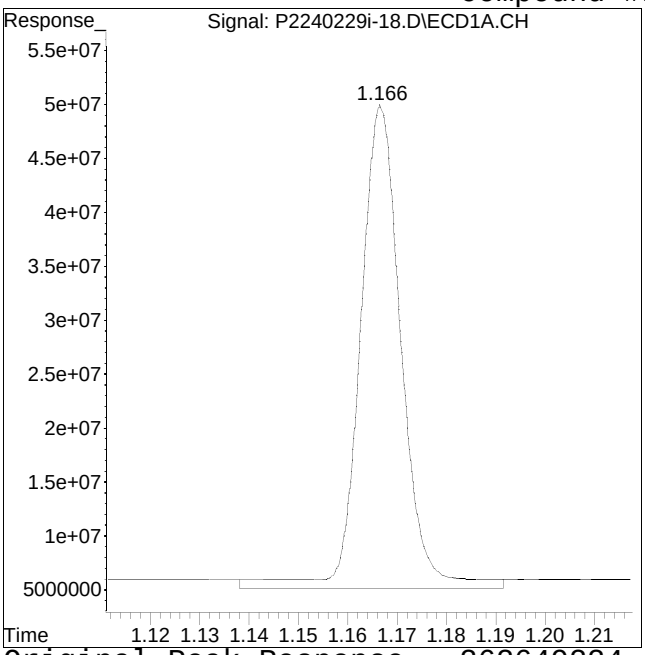
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

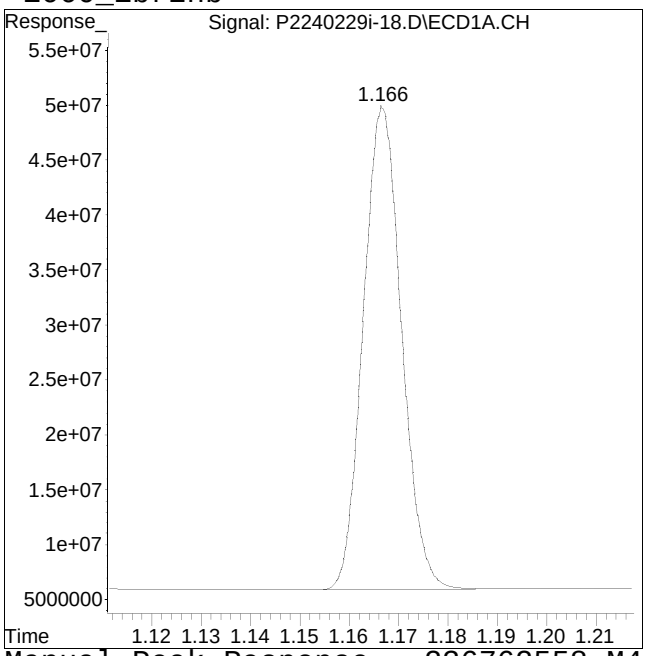


Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240229I\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240229i-18.D Operator : pest2:rmp/kb
Date Inj'd : 2/29/2024 2:47 pm Instrument : Pest 2
Sample : cicv1660,42,,pp 11459 Quant Date : 2/29/2024 3:08 pm

Compound #1: 1660_1br2nb



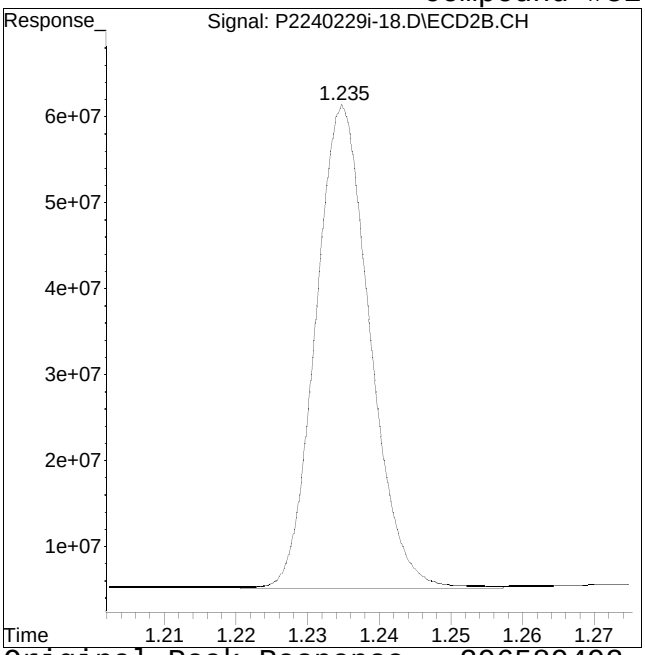


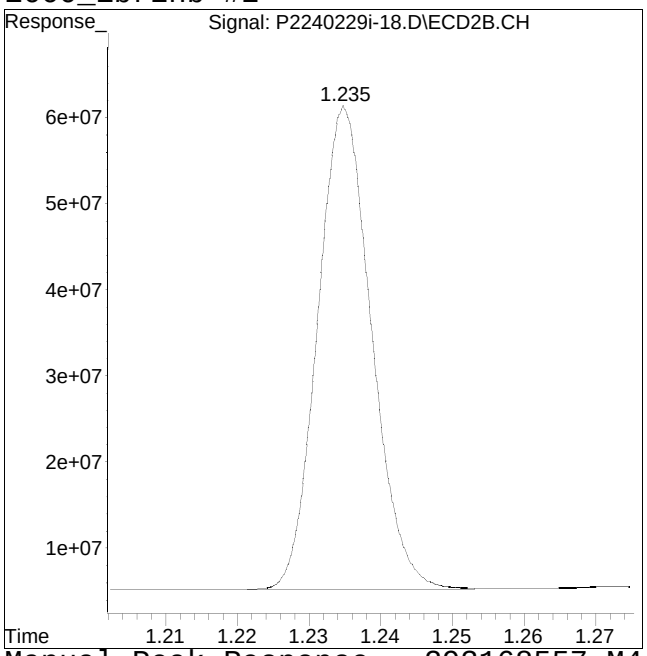
Original Peak Response = 262649224 Manual Peak Response = 236762558 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240229I\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240229i-18.D Operator : pest2:rmp/kb
Date Inj'd : 2/29/2024 2:47 pm Instrument : Pest 2
Sample : cicv1660,42,,pp 11459 Quant Date : 2/29/2024 3:08 pm

Compound #52: 1660_1br2nb #2



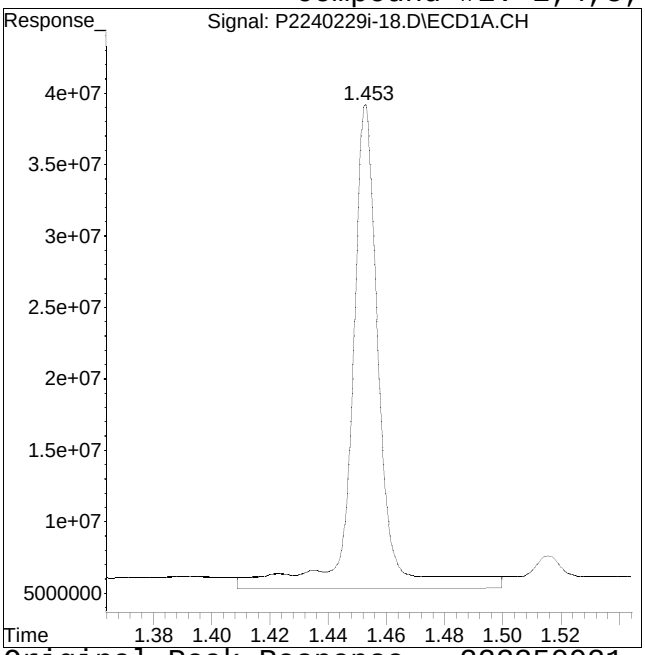


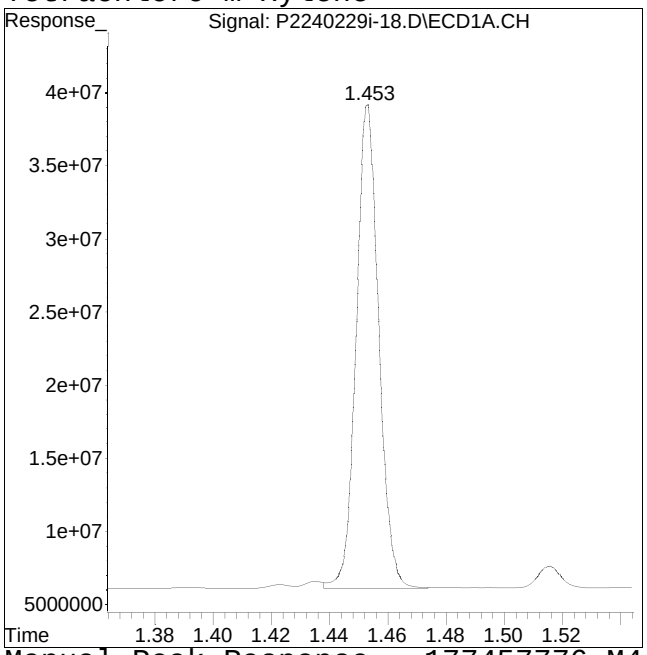
Original Peak Response = 296589492 Manual Peak Response = 293168557 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240229I\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240229i-18.D Operator : pest2:rmp/kb
Date Inj'd : 2/29/2024 2:47 pm Instrument : Pest 2
Sample : cicv1660,42,,pp 11459 Quant Date : 2/29/2024 3:08 pm

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



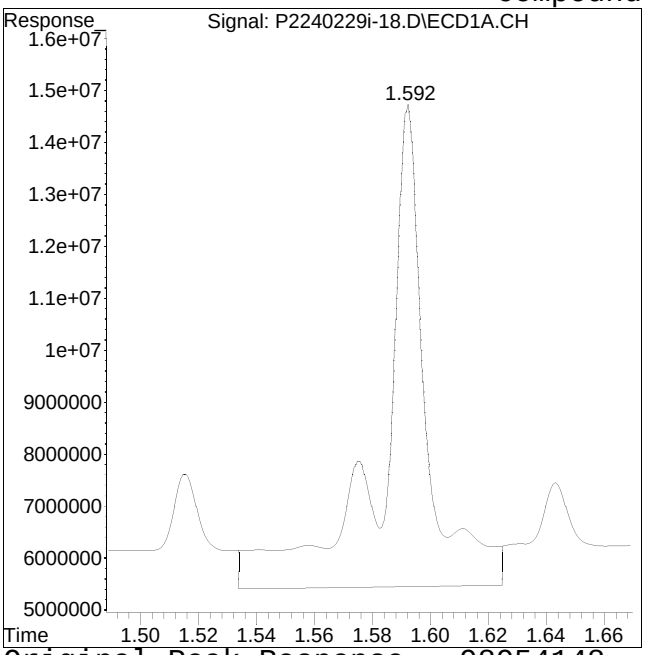


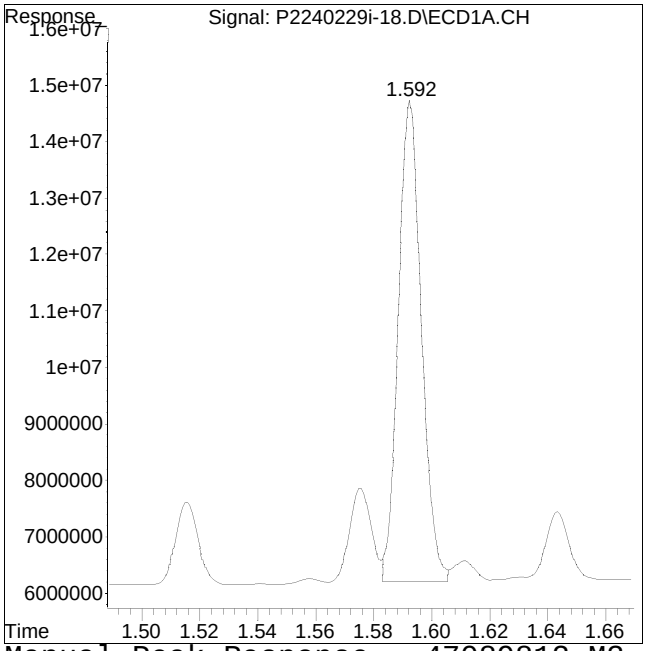
Original Peak Response = 223350921 Manual Peak Response = 177457776 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240229I\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240229i-18.D Operator : pest2:rmp/kb
Date Inj'd : 2/29/2024 2:47 pm Instrument : Pest 2
Sample : cicv1660,42,,pp 11459 Quant Date : 2/29/2024 3:08 pm

Compound #4: 1016-1



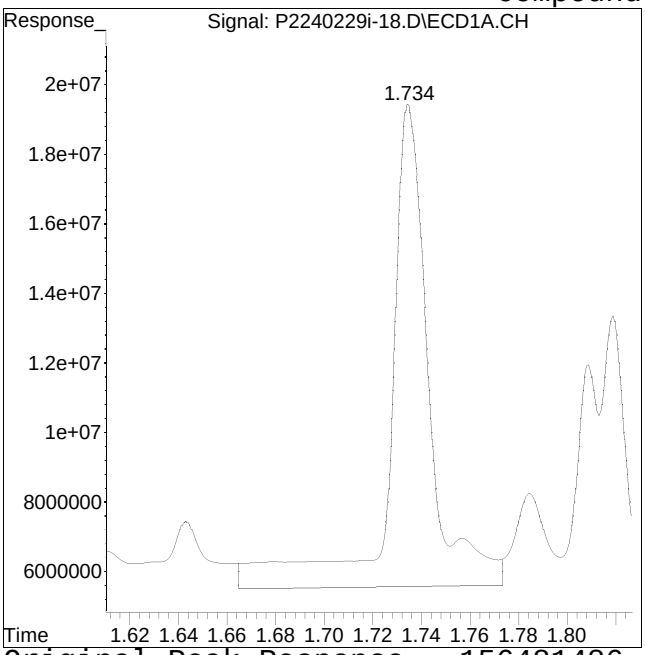


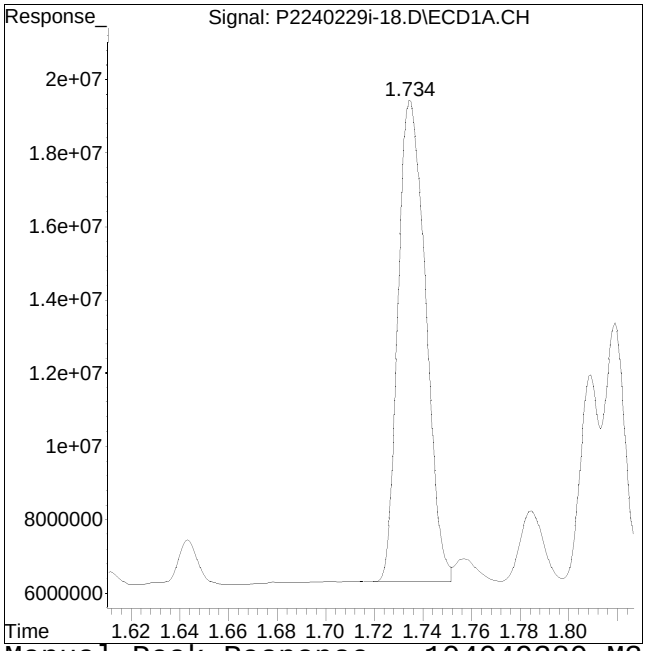
Original Peak Response = 98954148 Manual Peak Response = 47089812 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240229I\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240229i-18.D Operator : pest2:rmp/kb
Date Inj'd : 2/29/2024 2:47 pm Instrument : Pest 2
Sample : cicv1660,42,,pp 11459 Quant Date : 2/29/2024 3:08 pm

Compound #5: 1016-2



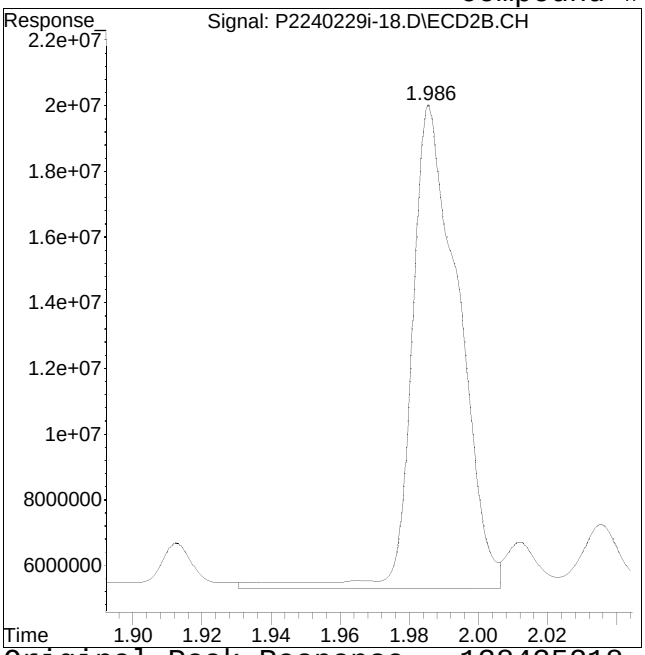


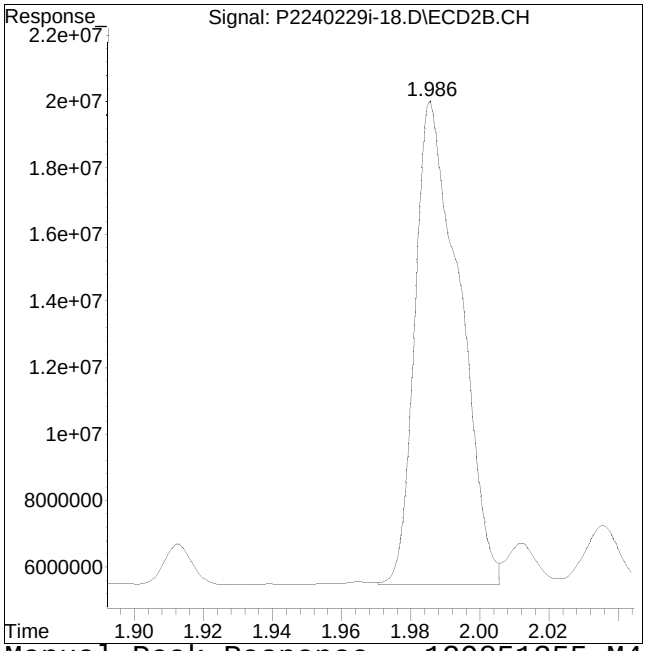
Original Peak Response = 156481486 Manual Peak Response = 104049380 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240229I\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240229i-18.D Operator : pest2:rmp/kb
Date Inj'd : 2/29/2024 2:47 pm Instrument : Pest 2
Sample : cicv1660,42,,pp 11459 Quant Date : 2/29/2024 3:08 pm

Compound #56: 1016-2 #2



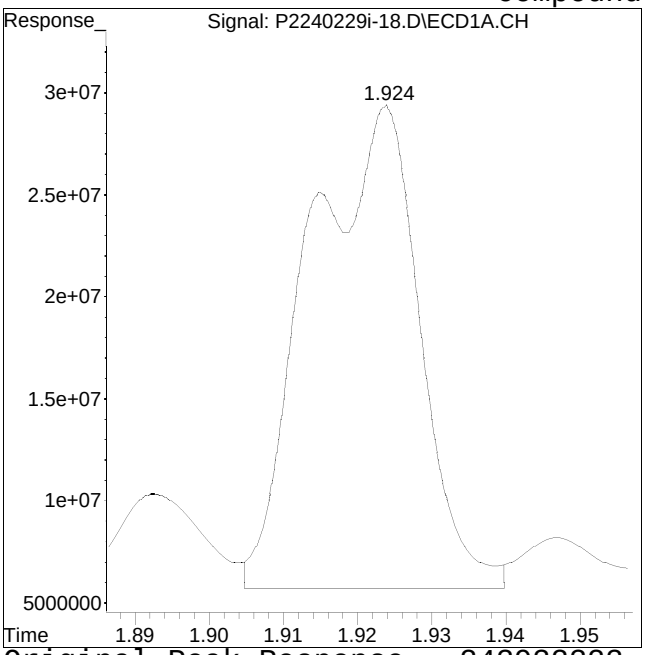


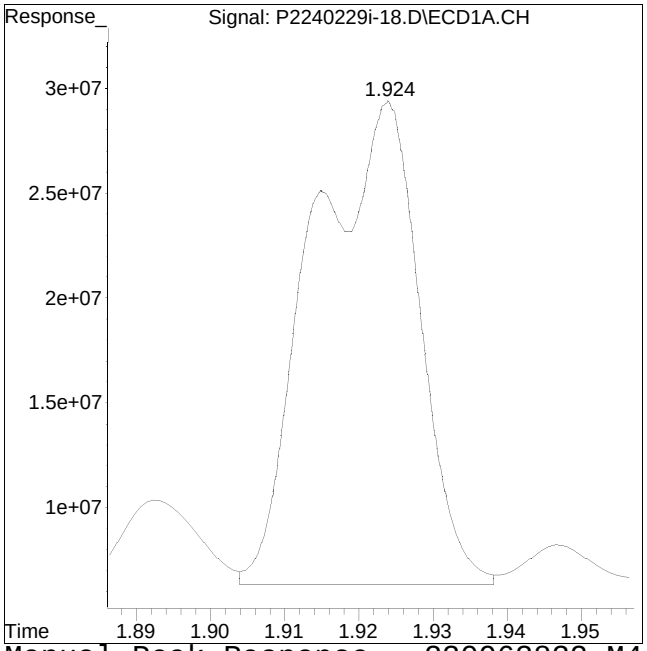
Original Peak Response = 138435218 Manual Peak Response = 129851355 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240229I\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240229i-18.D Operator : pest2:rmp/kb
Date Inj'd : 2/29/2024 2:47 pm Instrument : Pest 2
Sample : cicv1660,42,,pp 11459 Quant Date : 2/29/2024 3:08 pm

Compound #6: 1016-3



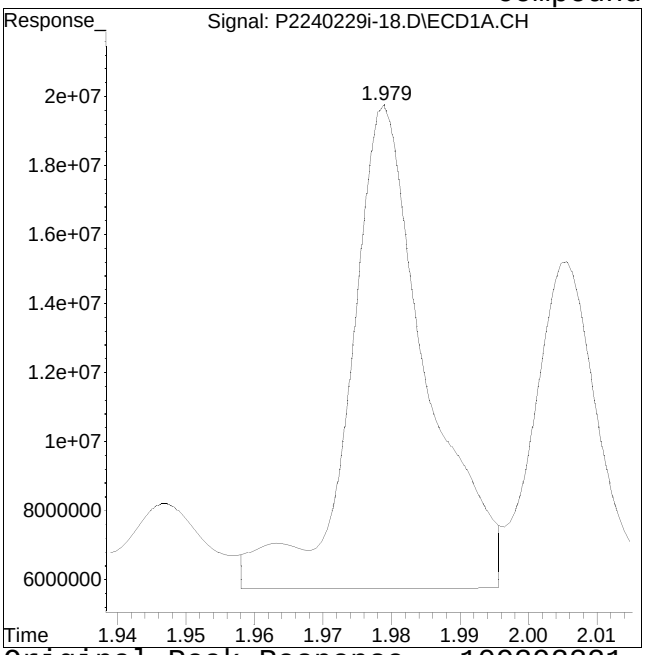


Original Peak Response = 243932323 Manual Peak Response = 230963832 M4
M4 = Poor automated baseline construction.

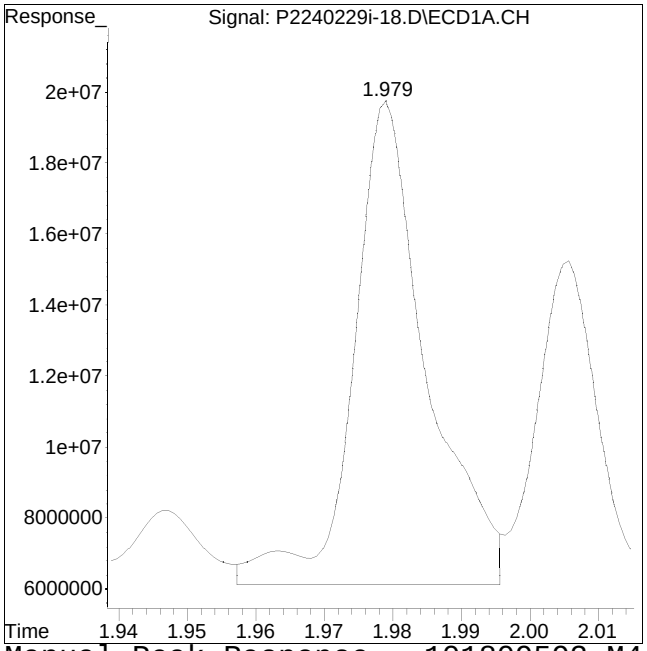
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240229I\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240229i-18.D Operator : pest2:rmp/kb
Date Inj'd : 2/29/2024 2:47 pm Instrument : Pest 2
Sample : cicv1660,42,,pp 11459 Quant Date : 2/29/2024 3:08 pm

Compound #7: 1016-4



Original Peak Response = 109392321



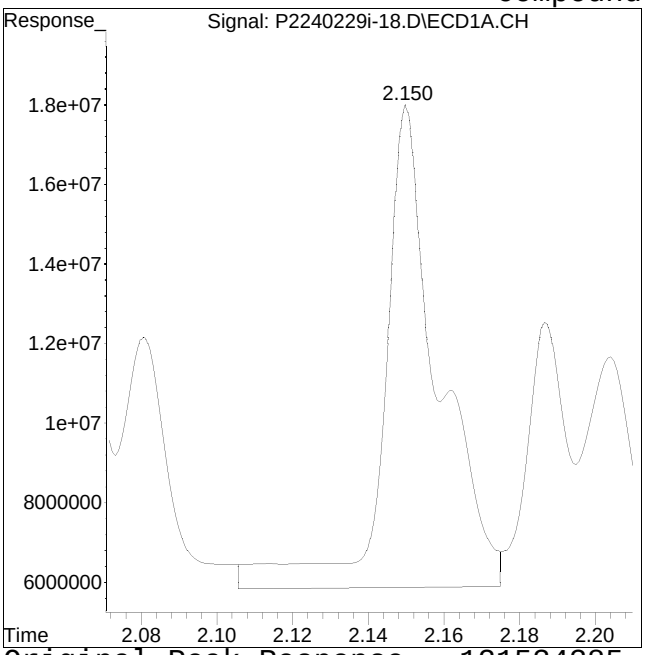
Manual Peak Response = 101809593 M4

M4 = Poor automated baseline construction.

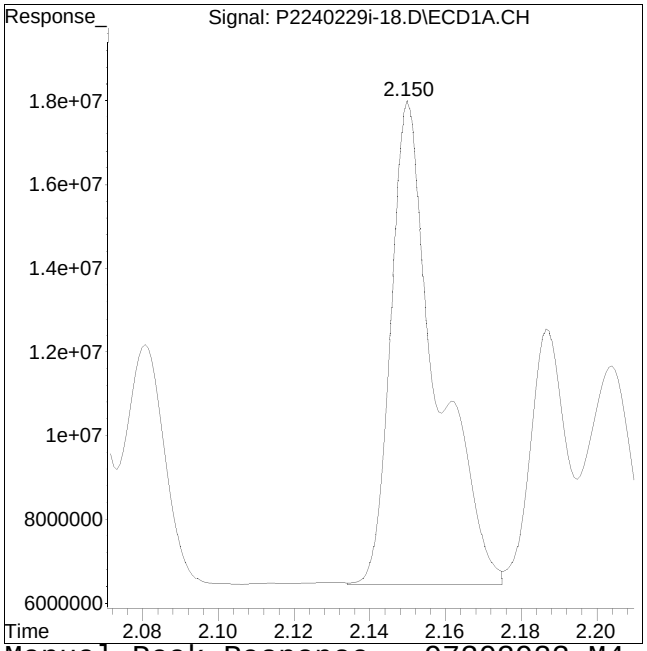
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240229I\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240229i-18.D Operator : pest2:rmp/kb
Date Inj'd : 2/29/2024 2:47 pm Instrument : Pest 2
Sample : cicv1660,42,,pp 11459 Quant Date : 2/29/2024 3:08 pm

Compound #8: 1016-5



Original Peak Response = 121534385



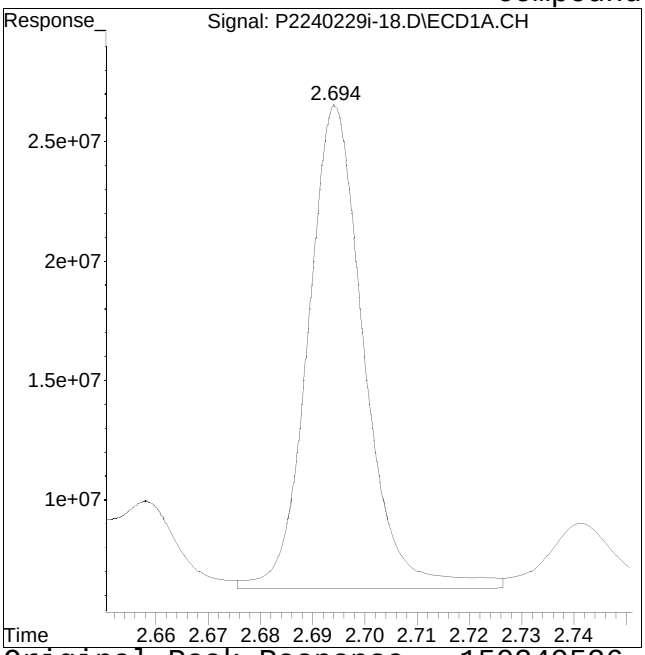
Manual Peak Response = 97303923 M4

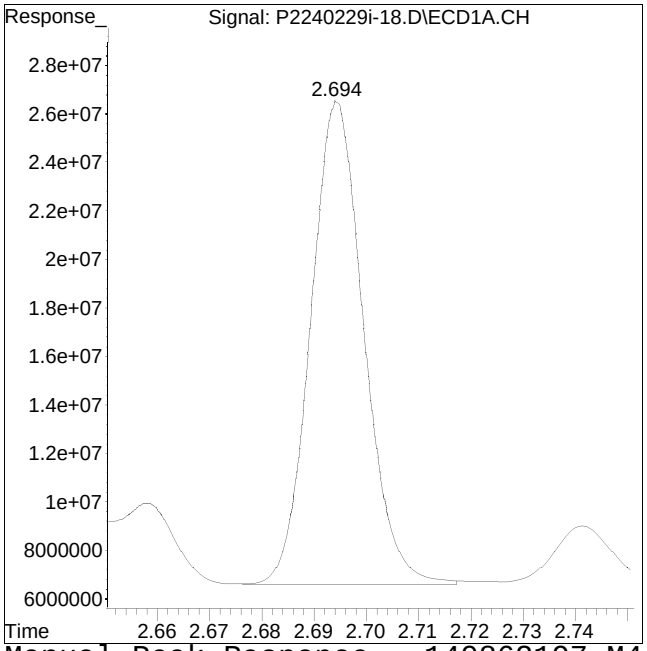
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240229I\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240229i-18.D Operator : pest2:rmp/kb
Date Inj'd : 2/29/2024 2:47 pm Instrument : Pest 2
Sample : cicv1660,42,,pp 11459 Quant Date : 2/29/2024 3:08 pm

Compound #9: 1260-1



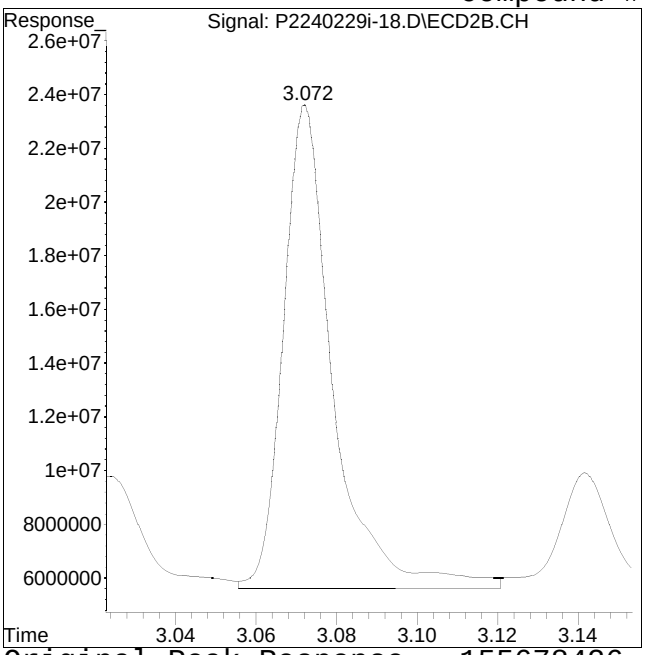


Original Peak Response = 150249526 Manual Peak Response = 140862197 M4
M4 = Poor automated baseline construction.

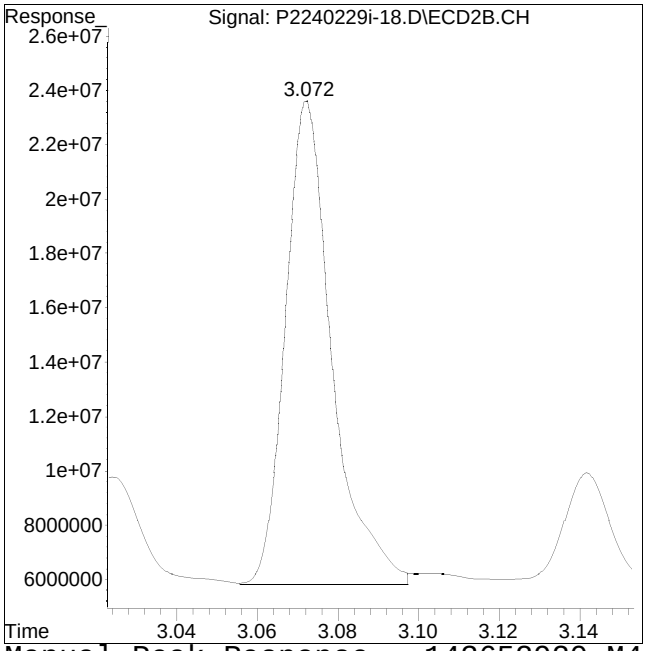
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240229I\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240229i-18.D Operator : pest2:rmp/kb
Date Inj'd : 2/29/2024 2:47 pm Instrument : Pest 2
Sample : cicv1660,42,,pp 11459 Quant Date : 2/29/2024 3:08 pm

Compound #60: 1260-1 #2



Original Peak Response = 155678426



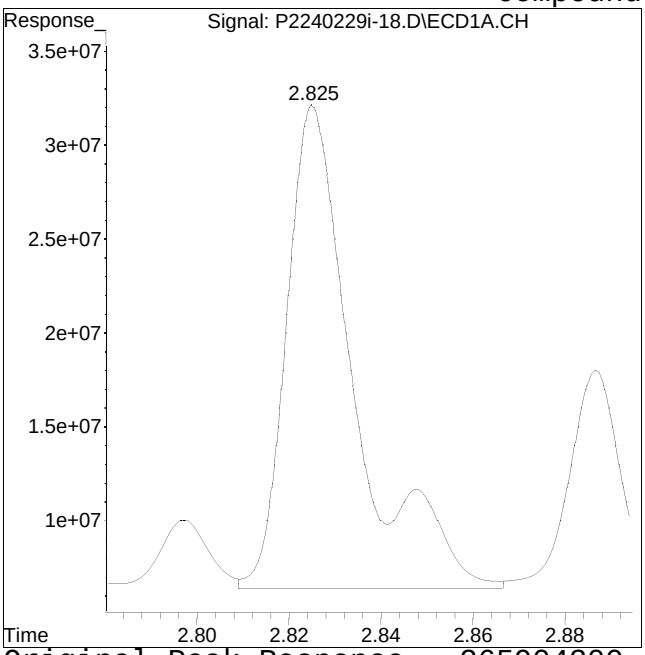
Manual Peak Response = 143652920 M4

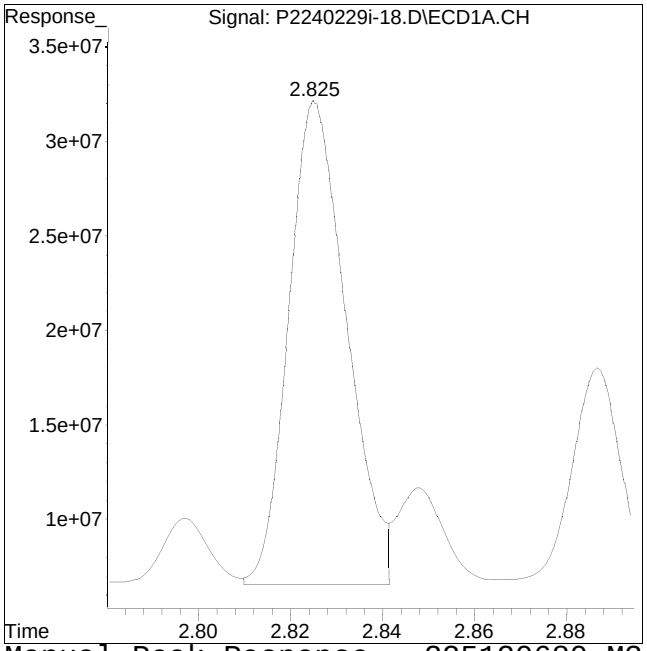
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240229I\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240229i-18.D Operator : pest2:rmp/kb
Date Inj'd : 2/29/2024 2:47 pm Instrument : Pest 2
Sample : cicv1660,42,,pp 11459 Quant Date : 2/29/2024 3:08 pm

Compound #10: 1260-2



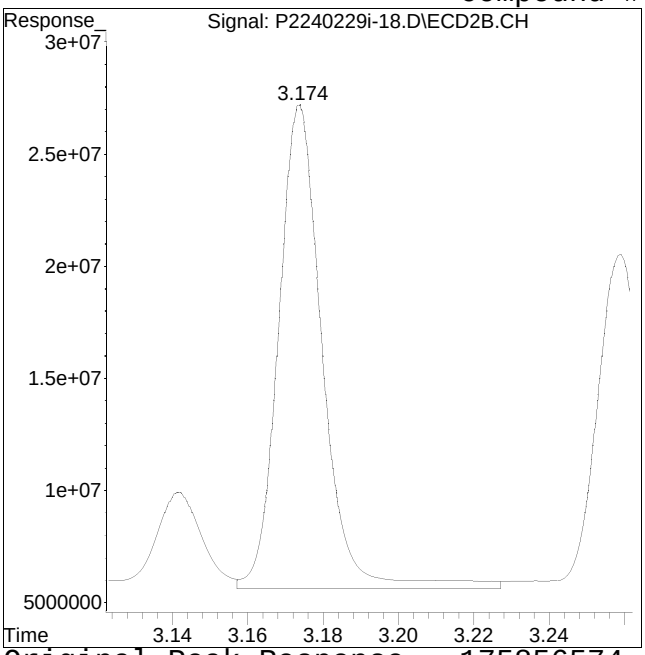


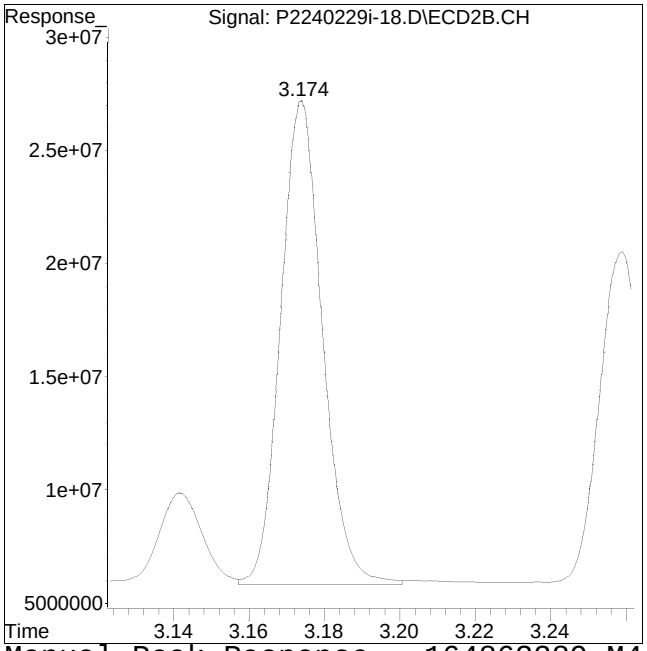
Original Peak Response = 265904300 Manual Peak Response = 225120680 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240229I\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240229i-18.D Operator : pest2:rmp/kb
Date Inj'd : 2/29/2024 2:47 pm Instrument : Pest 2
Sample : cicv1660,42,,pp 11459 Quant Date : 2/29/2024 3:08 pm

Compound #61: 1260-2 #2



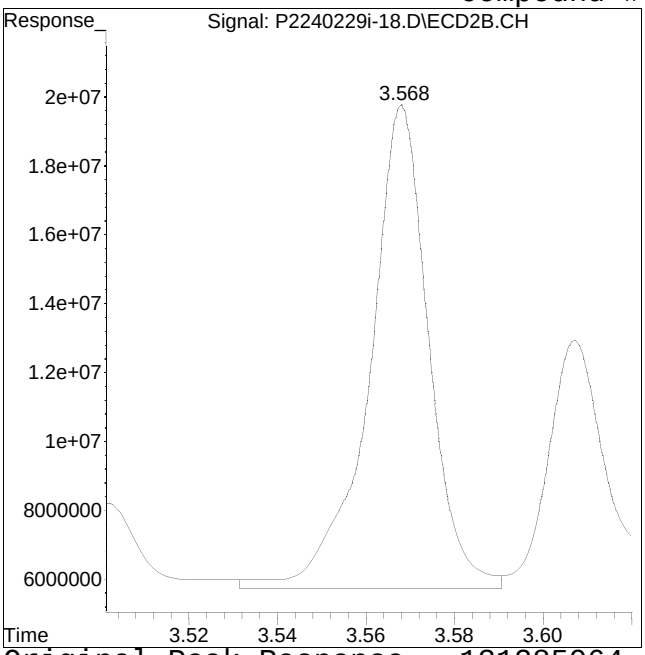


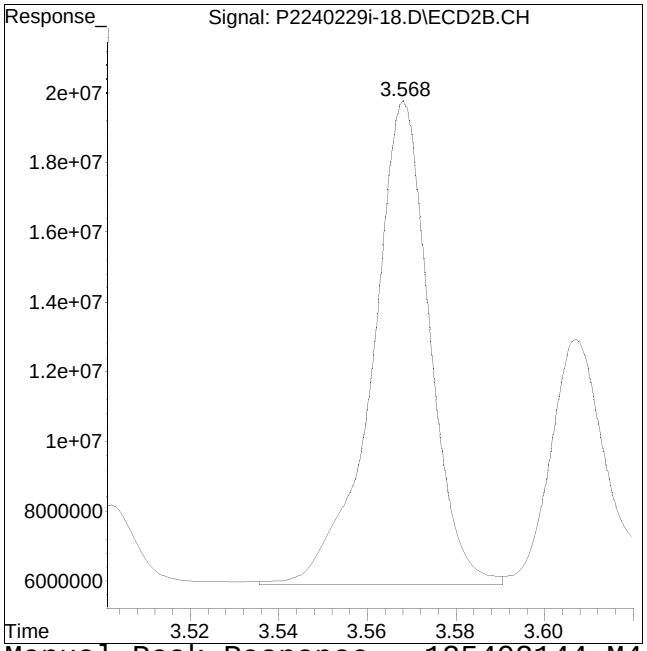
Original Peak Response = 175856574 Manual Peak Response = 164863289 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240229I\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240229i-18.D Operator : pest2:rmp/kb
Date Inj'd : 2/29/2024 2:47 pm Instrument : Pest 2
Sample : cicv1660,42,,pp 11459 Quant Date : 2/29/2024 3:08 pm

Compound #62: 1260-3 #2



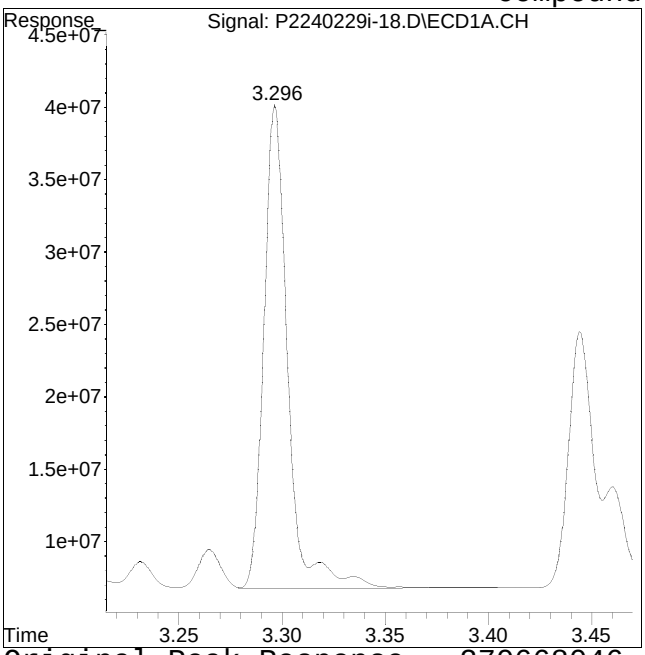


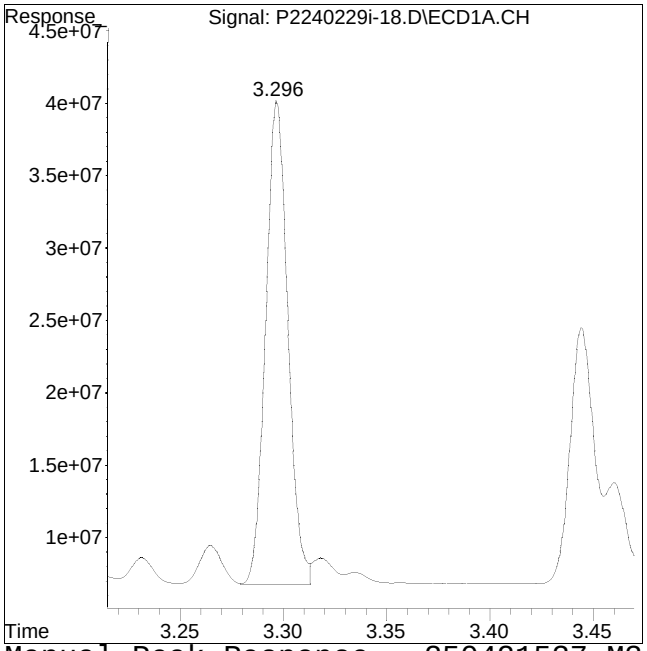
Original Peak Response = 131285964 Manual Peak Response = 125402144 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240229I\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240229i-18.D Operator : pest2:rmp/kb
Date Inj'd : 2/29/2024 2:47 pm Instrument : Pest 2
Sample : cicv1660,42,,pp 11459 Quant Date : 2/29/2024 3:08 pm

Compound #12: 1260-4



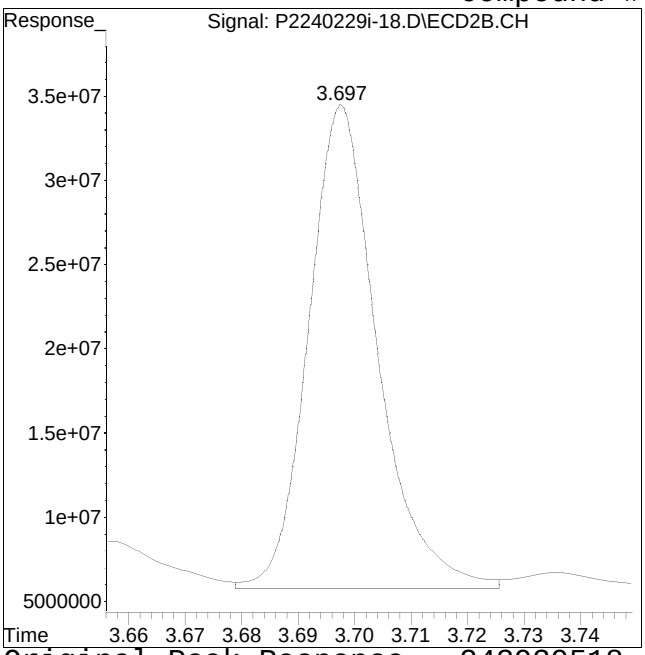


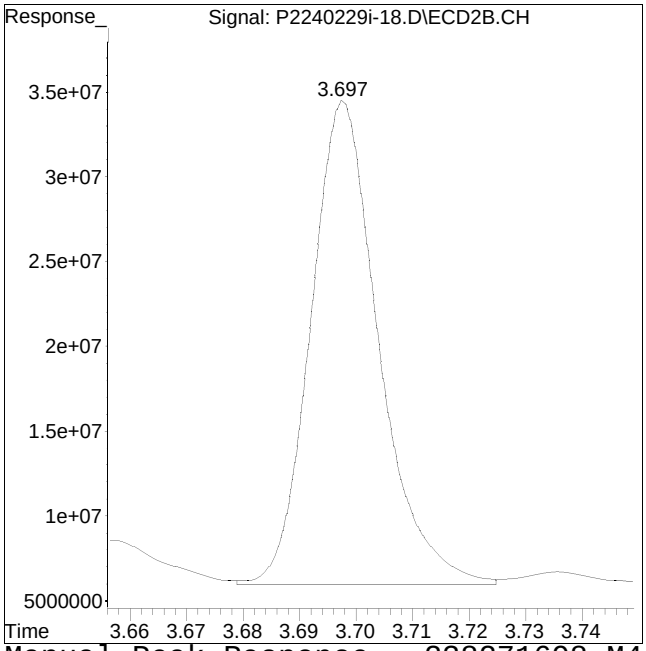
Original Peak Response = 270668046 Manual Peak Response = 250421537 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240229I\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240229i-18.D Operator : pest2:rmp/kb
Date Inj'd : 2/29/2024 2:47 pm Instrument : Pest 2
Sample : cicv1660,42,,pp 11459 Quant Date : 2/29/2024 3:08 pm

Compound #63: 1260-4 #2



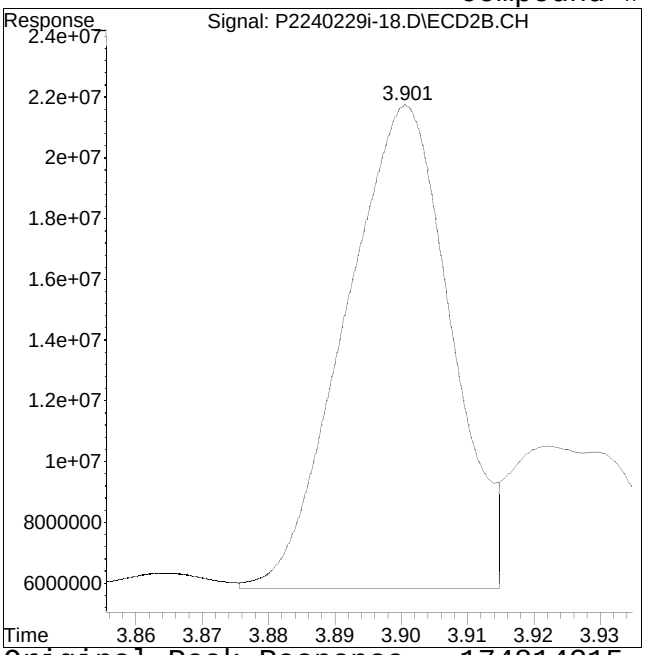


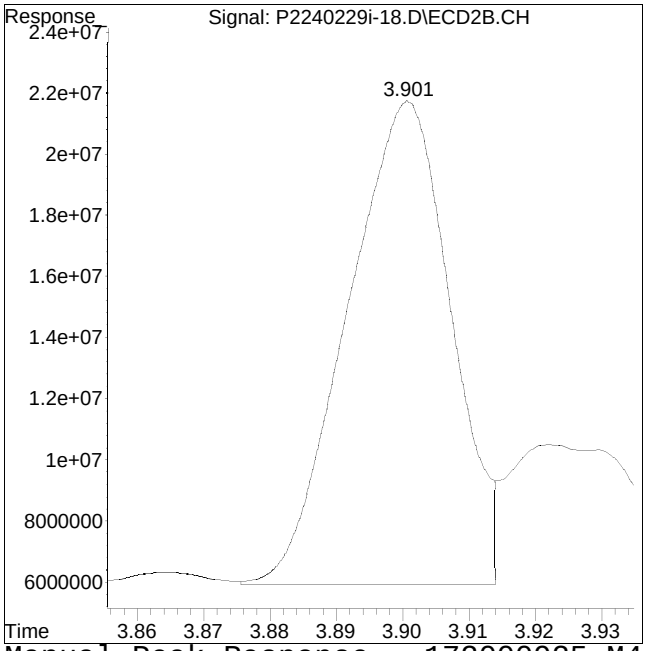
Original Peak Response = 243939518 Manual Peak Response = 238271698 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240229I\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240229i-18.D Operator : pest2:rmp/kb
Date Inj'd : 2/29/2024 2:47 pm Instrument : Pest 2
Sample : cicv1660,42,,pp 11459 Quant Date : 2/29/2024 3:08 pm

Compound #64: 1260-5 #2





Original Peak Response = 174814315 Manual Peak Response = 172000925 M4
M4 = Poor automated baseline construction.

Continuing Calibration

Calibration Verification Summary
Form 7
PCBs

Client	: Alpha Geoscience		**Lab Number**	: L2410579	
Project Name	: HUNTINGTON READY MIX		**Project Number**	: 20116	
Instrument ID	: PEST2		**Calibration Date**	: 03/05/24 05:34	
Lab File ID	: P2240305a-02		**Init. Calib. Date(s)**	: 02/29/24	02/29/24
Sample No	: WG1892200-1		**Init. Calib. Times**	: 12:37	14:01
Channel	: A				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1660_1br2nb	1	1	-	0	20	97	0
2,4,5,6-Tetrachloro-m-xylen	1.31	1.454	-	-11	20	108	0
Decachlorobiphenyl	0.949	1.165	-	-22.8*	20	126	0
1016-1	0.023	0.025	-	-8.7	20	110	0
1016-2	0.043	0.049	-	-14	20	101	0
1016-3	0.103	0.113	-	-9.7	20	108	0
1016-4	0.044	0.047	-	-6.8	20	104	0
1016-5	0.045	0.048	-	-6.7	20	107	0
1260-1	0.067	0.072	-	-7.5	20	107	0
1260-2	0.1	0.106	-	-6	20	106	0
1260-3	0.063	0.065	-	-3.2	20	103	0
1260-4	0.13	0.116	-	10.8	20	88	0
1260-5	0.096	0.103	-	-7.3	20	108	0

* Value outside of QC limits.

Calibration Verification Summary
Form 7
PCBs

Client	: Alpha Geoscience		**Lab Number**	: L2410579	
Project Name	: HUNTINGTON READY MIX		**Project Number**	: 20116	
Instrument ID	: PEST2		**Calibration Date**	: 03/05/24 05:34	
Lab File ID	: P2240305a-02		**Init. Calib. Date(s)**	: 02/29/24	02/29/24
Sample No	: WG1892200-1		**Init. Calib. Times**	: 12:37	14:01
Channel	: B				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1660_1br2nb #2	1	1	-	0	20	83	0
2,4,5,6-Tetrachloro-m-xylen	1.231	1.313	-	-6.7	20	90	0
Decachlorobiphenyl #2	0.663	0.905	-	-36.5*	20	123	0
1016-1 #2	0.021	0.023	-	-9.5	20	95	0
1016-2 #2	0.047	0.051	-	-8.5	20	91	0
1016-3 #2	0.094	0.103	-	-9.6	20	95	0
1016-4 #2	0.038	0.042	-	-10.5	20	97	0
1016-5 #2	0.029	0.035	-	-20.7*	20	104	0
1260-1 #2	0.05	0.06	-	-20	20	101	0
1260-2 #2	0.062	0.074	-	-19.4	20	107	0
1260-3 #2	0.05	0.059	-	-18	20	100	0
1260-4 #2	0.103	0.1	-	2.9	20	85	0
1260-5 #2	0.071	0.083	-	-16.9	20	104	0

* Value outside of QC limits.

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest2\2024\240305a\
Data File : P2240305a-02.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 05 Mar 2024 5:34 am
Operator : pest2:akm
Sample : wg1892200-1,42,, +1660 lvi ccv pp11440 (Sig #1); +1660 lvi ccv pp1
1440 (Sig #2)
Misc : wg1892200,,ical20902
ALS Vial : 2 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Mar 05 05:55:42 2024
Quant Method : I:\PCB\Pest2\2024\240305A\P2_pcb_02_29_24_LVI_ugL_ICAL20902.m
Quant Title : pcb
QLast Update : Thu Feb 29 16:00:47 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
1	i	1660_1br2nb	^	1.000	1.000	0.0	97	0.00
2	s	2,4,5,6-Tetrachloro-m-xylen		1.310	1.454	-11.0	108	0.00
3	s	Decachlorobiphenyl		0.949	1.165	-22.8#	126	0.00
4	l1	1016-1		0.023	0.025	-8.7	110	0.00
5	l1	1016-2		0.043	0.049	-14.0	101	0.00
6	l1	1016-3		0.103	0.113	-9.7	108	0.00
7	l1	1016-4		0.044	0.047	-6.8	104	0.00
8	l1	1016-5		0.045	0.048	-6.7	107	0.00
9	l2	1260-1		0.067	0.072	-7.5	107	0.00
10	l2	1260-2		0.100	0.106	-6.0	106	0.00
11	l2	1260-3		0.063	0.065	-3.2	103	0.00
12	l2	1260-4		0.130	0.116	10.8	88	0.00
13	l2	1260-5		0.096	0.103	-7.3	108	0.00
52	i	1660_1br2nb #2	^	1.000	1.000	0.0	83	0.00
53	s	2,4,5,6-Tetrachloro-m-xylen		1.231	1.313	-6.7	90	0.00
54	s	Decachlorobiphenyl #2		0.663	0.905	-36.5#	123	0.00
55	l1	1016-1 #2		0.021	0.023	-9.5	95	0.00
56	l1	1016-2 #2		0.047	0.051	-8.5	91	0.00
57	l1	1016-3 #2		0.094	0.103	-9.6	95	0.00
58	l1	1016-4 #2		0.038	0.042	-10.5	97	0.00
59	l1	1016-5 #2		0.029	0.035	-20.7#	104	0.00
60	l2	1260-1 #2		0.050	0.060	-20.0	101	0.00
61	l2	1260-2 #2		0.062	0.074	-19.4	107	0.00
62	l2	1260-3 #2		0.050	0.059	-18.0	100	0.00
63	l2	1260-4 #2		0.103	0.100	2.9	85	0.00
64	l2	1260-5 #2		0.071	0.083	-16.9	104	0.00

Evaluate Continuing Calibration Report - Not Founds

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest2\2024\240305a\
Data File : P2240305a-02.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 05 Mar 2024   5:34 am
Operator : pest2:akm
Sample   : wg1892200-1,42,, +1660 lvi ccv pp11440 (Sig #1); +1660 lvi ccv pp1
1440 (Sig #2)
Misc   : wg1892200,,ical20902
ALS Vial : 2 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Mar 05 05:55:42 2024
Quant Method : I:\PCB\Pest2\2024\240305A\P2_pcb_02_29_24_LVI_ugL_ICAL20902.m
Quant Title : pcb
QLast Update : Thu Feb 29 16:00:47 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area% Dev(Min)

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0
(^) = ISTD area calculated using ICAL average

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240305a\
Data File : P2240305a-02.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 05 Mar 2024 5:34 am
Operator : pest2:akm
Sample : wg1892200-1,42,, +1660 lvi ccv pp11440 (Sig #1); +1660 lvi ccv pp1
1440 (Sig #2)
Misc : wg1892200,,ical20902
ALS Vial : 2 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Mar 05 05:55:42 2024
Quant Method : I:\PCB\Pest2\2024\240305A\P2_pcb_02_29_24_LVI_ugL_ICAL20902.m
Quant Title : pcb
QLast Update : Thu Feb 29 16:00:47 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : 1660 - 1660

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	1.162	1.230	228.2E6	242.8E6	25.000M4	25.000M4
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.448	1.606	212.3E6	204.0E6	17.755M3	17.064M4
	Spiked Amount	20.000	Range 30 - 150		Recovery =	88.77%	85.32%
3) s	Decachlorobi	4.022	4.544	340.4E6	281.4E6	39.299M4	43.699M4
	Spiked Amount	20.000	Range 30 - 150		Recovery =	196.50%#	218.49%#
	Target Compounds						
4) l1	1016-1	1.587	1.809	57933697	56522945	279.948M3	272.417M4
5) l1	1016-2	1.729	1.980	111.8E6	123.0E6	286.872M3	269.453M4
6) l1	1016-3	1.919	2.182	258.1E6	249.8E6	275.548M3	272.584M4
7) l1	1016-4	1.973	2.242	107.2E6	101.6E6	265.835M3	276.734M4
8) l1	1016-5	2.144	2.454	109.8E6	84809163	265.296M4	301.411M4
	Sum 1016-1			644.8E6	615.8E6	1373.500	1392.600
	Average 1016-1					274.700	278.520
9) l2	1260-1	2.688	3.066	164.5E6	146.0E6	269.547M4	298.112M4
10) l2	1260-2	2.818	3.167	241.5E6	180.0E6	264.616M3	296.826M4
11) l2	1260-3	3.134	3.561	148.8E6	143.0E6	260.573M4	294.116M4

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240305a\
Data File : P2240305a-02.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 05 Mar 2024 5:34 am
Operator : pest2:akm
Sample : wg1892200-1,42,, +1660 lvi ccv pp11440 (Sig #1); +1660 lvi ccv pp1
1440 (Sig #2)
Misc : wg1892200,,ical20902
ALS Vial : 2 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Mar 05 05:55:42 2024
Quant Method : I:\PCB\Pest2\2024\240305A\P2_pcb_02_29_24_LVI_ugL_ICAL20902.m
Quant Title : pcb
QLast Update : Thu Feb 29 16:00:47 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : 1660 - 1660

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
12) l2 1260-4	3.291	3.691	265.7E6	243.0E6	223.973M3	242.858M4
13) l2 1260-5	3.438	3.893	234.2E6	202.3E6	268.054M4	293.311M4
Sum 1260-1			1054.7E6	914.2E6	1286.763	1425.223
Average 1260-1					257.353	285.045
Sum 1221-2			0	0	N.D.	N.D.
Average 1221-2					0.000	0.000
Sum 1254-1			0	0	N.D.	N.D.
Average 1254-1					0.000	0.000
Sum 1242-1			0	0	N.D.	N.D.
Average 1242-1					0.000	0.000
Sum 1268-1			0	0	N.D.	N.D.
Average 1268-1					0.000	0.000
Sum 1248-1			0	0	N.D.	N.D.
Average 1248-1					0.000	0.000
Sum 1232-1			0	0	N.D.	N.D.
Average 1232-1					0.000	0.000
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240305a\
Data File : P2240305a-02.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 05 Mar 2024 5:34 am
Operator : pest2:akm
Sample : wg1892200-1,42,, +1660 lvi ccv pp11440 (Sig #1); +1660 lvi ccv pp1
1440 (Sig #2)
Misc : wg1892200,,ical20902
ALS Vial : 2 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Mar 05 05:55:42 2024
Quant Method : I:\PCB\Pest2\2024\240305A\P2_pcb_02_29_24_LVI_ugL_ICAL20902.m
Quant Title : pcb
QLast Update : Thu Feb 29 16:00:47 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : 1660 - 1660

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l

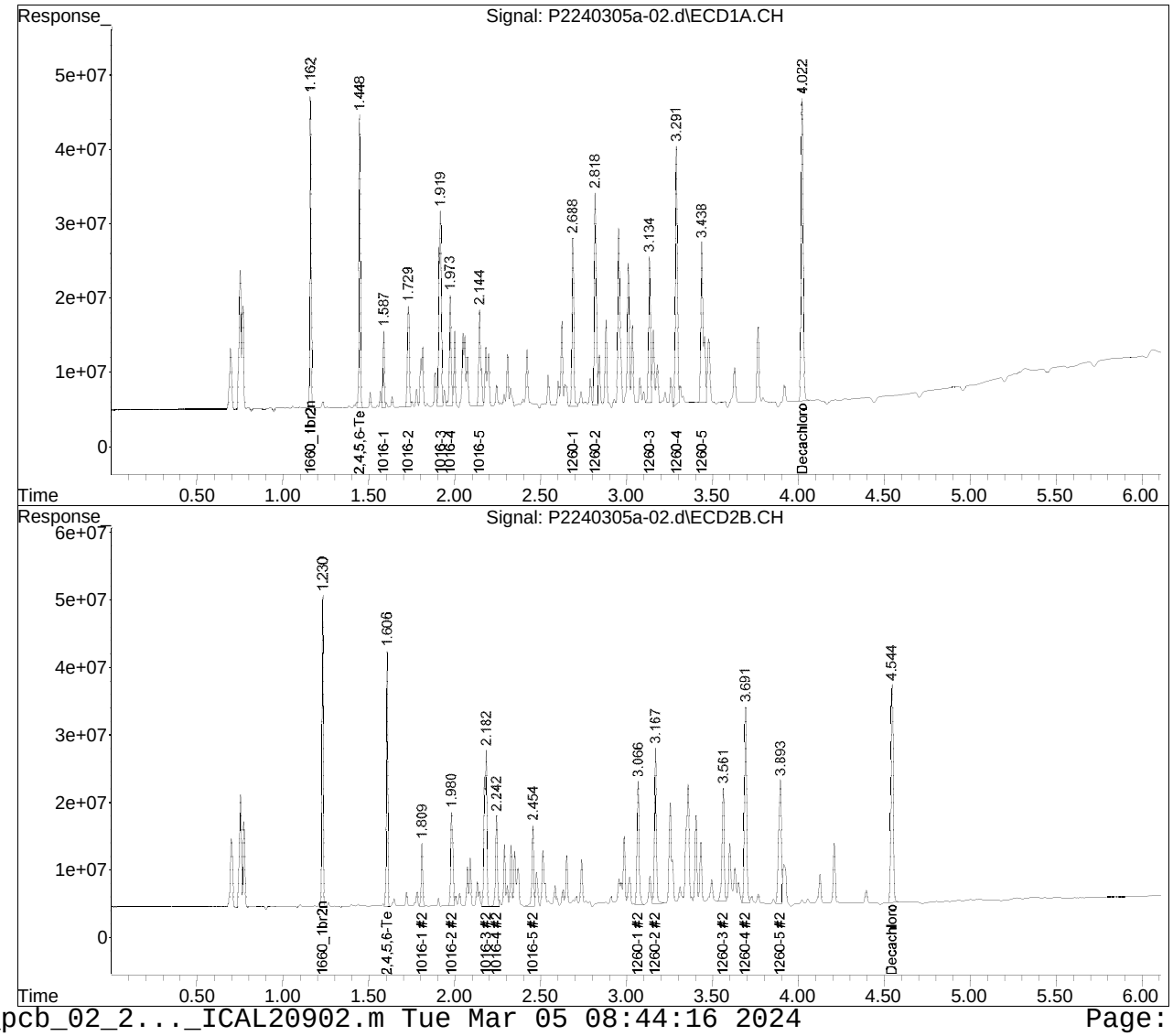
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : 1660 - 1660ation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240305a\
Data File : P2240305a-02.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 05 Mar 2024 5:34 am
Operator : pest2:akm
Sample : wg1892200-1,42,, +1660 lvi ccv pp11440 (Sig #1); +1660 lvi ccv pp1
Misc : wg1892200,,ical20902
ALS Vial : 2 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Mar 05 05:55:42 2024
Quant Method : I:\PCB\Pest2\2024\240305A\P2_pcb_02_29_24_LVI_ugL_ICAL20902.m
Quant Title : pcb
QLast Update : Thu Feb 29 16:00:47 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

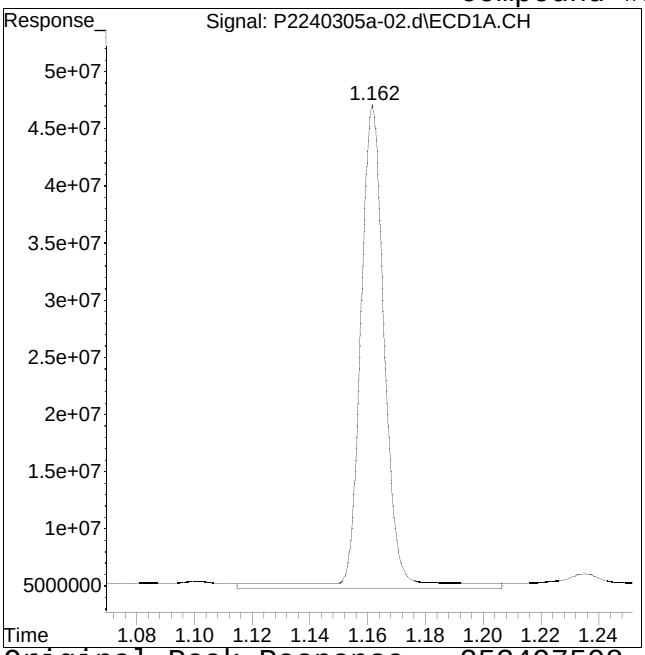
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

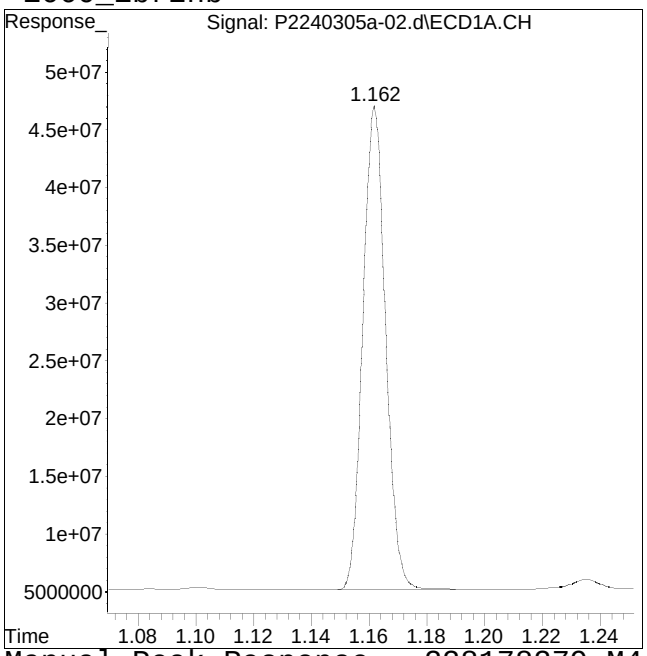


Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240305a\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240305a-02.d Operator : pest2:akm
Date Inj'd : 3/5/2024 5:34 am Instrument : Pest 2
Sample : wg1892200-1,42,, +1660 lviQuant Date : 3/5/2024 5:51 am

Compound #1: 1660_1br2nb



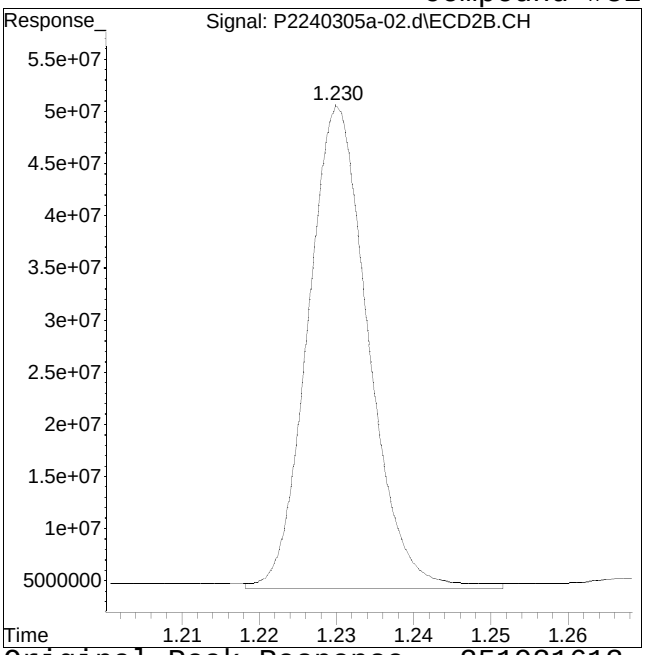


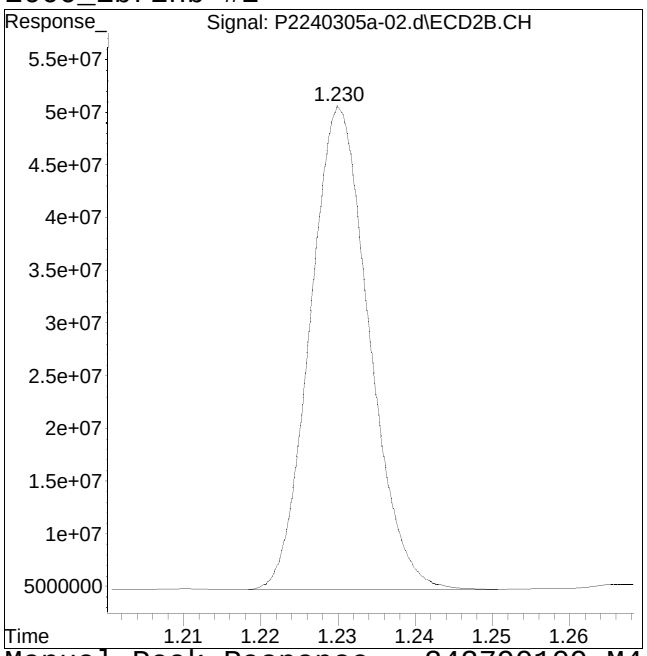
Original Peak Response = 253497508 Manual Peak Response = 228178279 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240305a\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240305a-02.d Operator : pest2:akm
Date Inj'd : 3/5/2024 5:34 am Instrument : Pest 2
Sample : wg1892200-1,42,, +1660 lviQuant Date : 3/5/2024 5:51 am

Compound #52: 1660_1br2nb #2



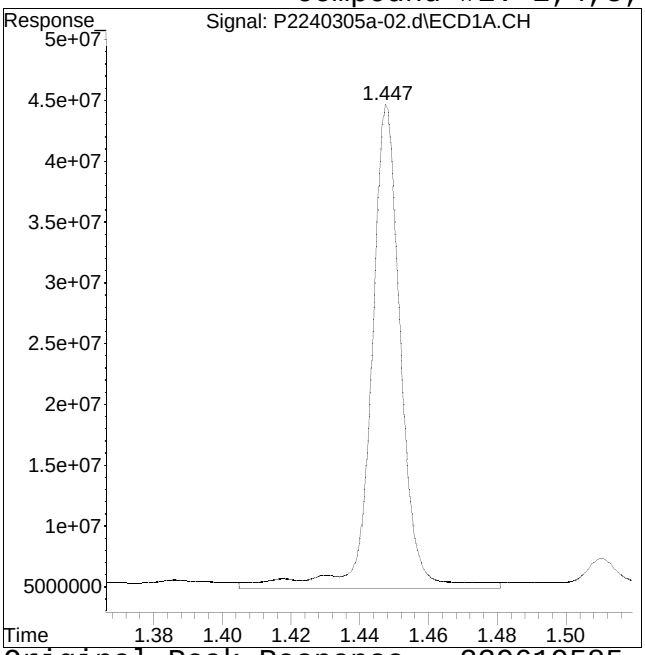


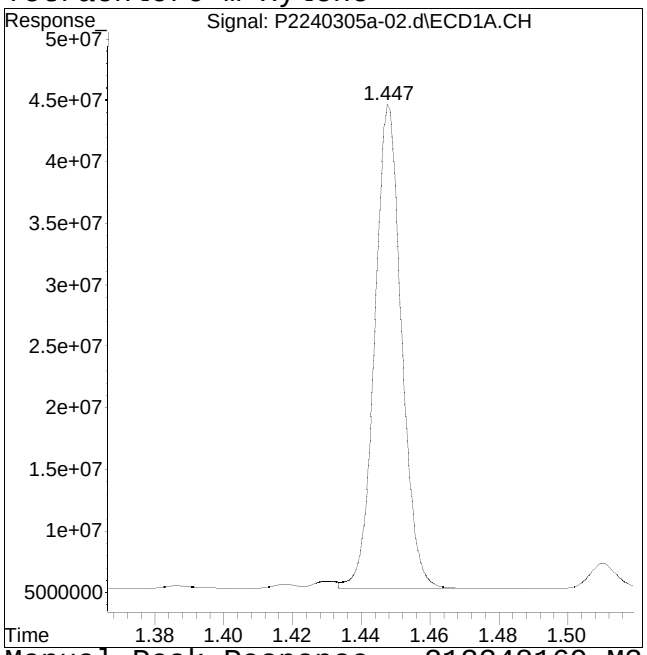
Original Peak Response = 251921613 Manual Peak Response = 242790109 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240305a\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240305a-02.d Operator : pest2:akm
Date Inj'd : 3/5/2024 5:34 am Instrument : Pest 2
Sample : wg1892200-1,42,, +1660 lviQuant Date : 3/5/2024 5:51 am

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



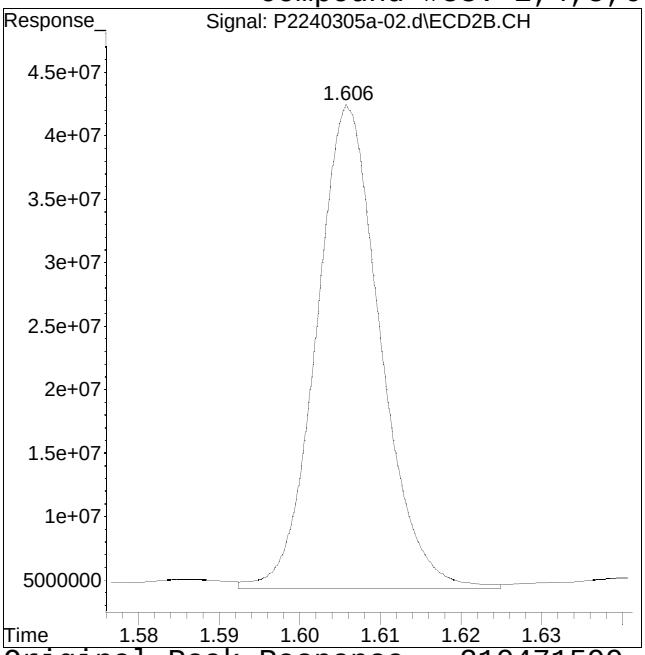


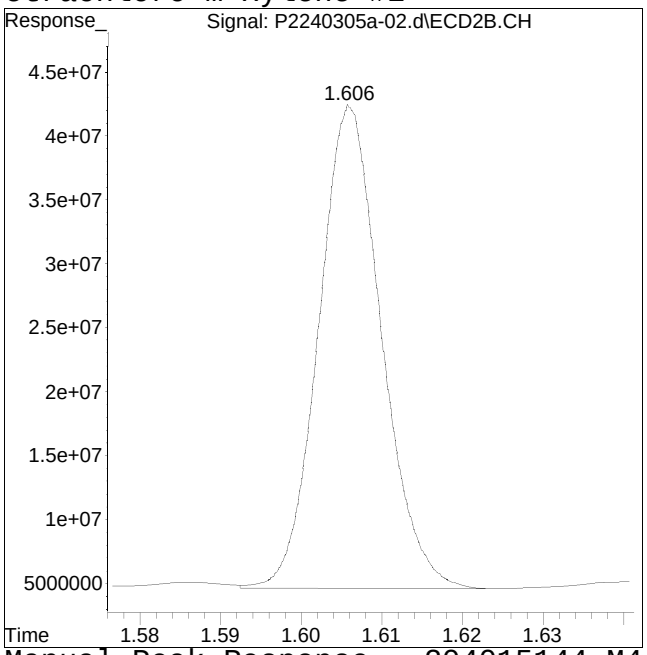
Original Peak Response = 239619585 Manual Peak Response = 212348169 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240305a\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240305a-02.d Operator : pest2:akm
Date Inj'd : 3/5/2024 5:34 am Instrument : Pest 2
Sample : wg1892200-1,42,, +1660 lviQuant Date : 3/5/2024 5:51 am

Compound #53: 2,4,5,6-Tetrachloro-m-xylene #2



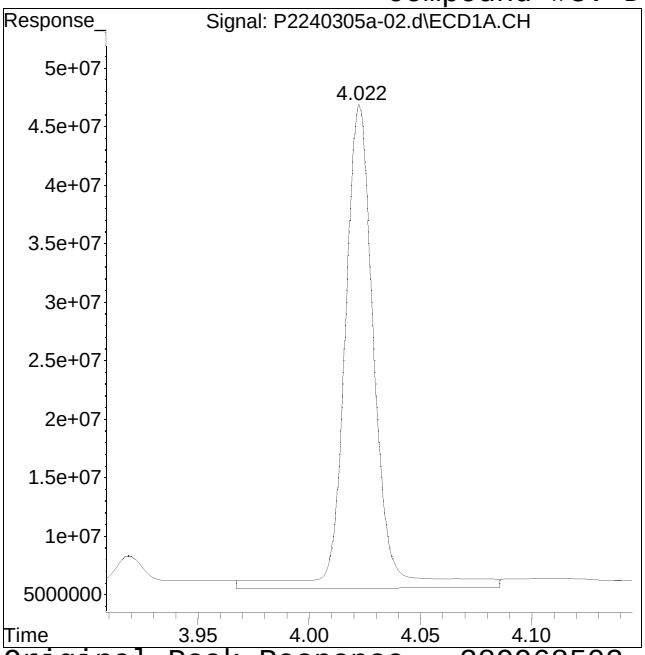


Original Peak Response = 210471599 Manual Peak Response = 204015144 M4
M4 = Poor automated baseline construction.

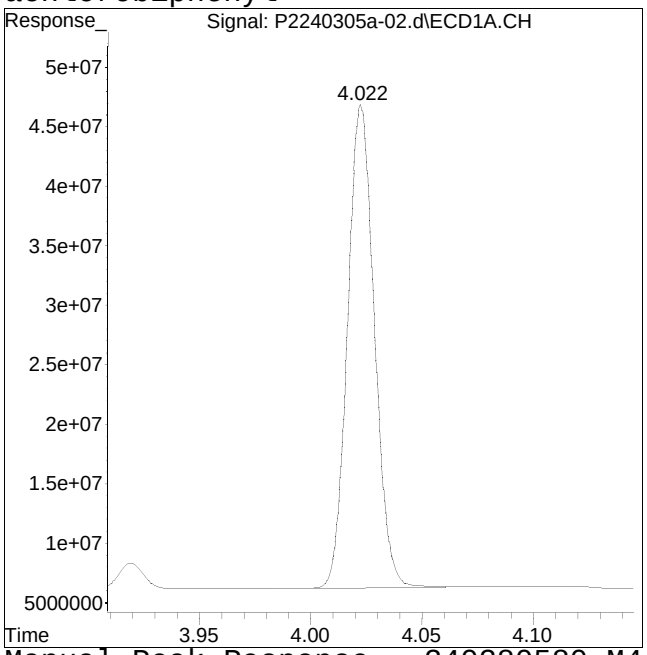
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240305a\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240305a-02.d Operator : pest2:akm
Date Inj'd : 3/5/2024 5:34 am Instrument : Pest 2
Sample : wg1892200-1,42,, +1660 lviQuant Date : 3/5/2024 5:51 am

Compound #3: Decachlorobiphenyl



Original Peak Response = 389968503

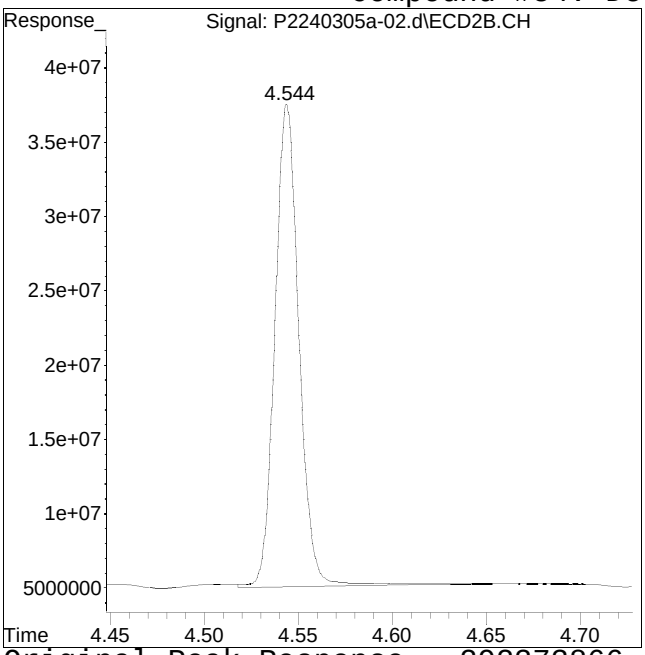


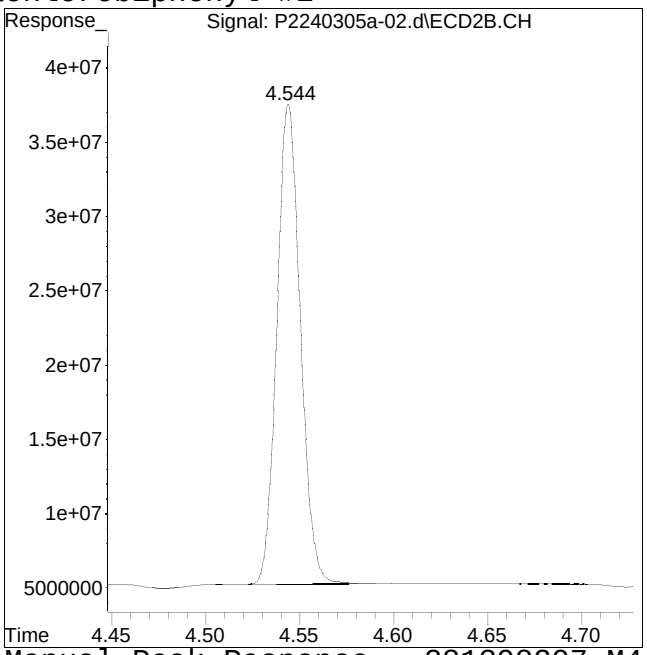
Manual Peak Response = 340380580 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240305a\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240305a-02.d Operator : pest2:akm
Date Inj'd : 3/5/2024 5:34 am Instrument : Pest 2
Sample : wg1892200-1,42,, +1660 lviQuant Date : 3/5/2024 5:51 am

Compound #54: Decachlorobiphenyl #2



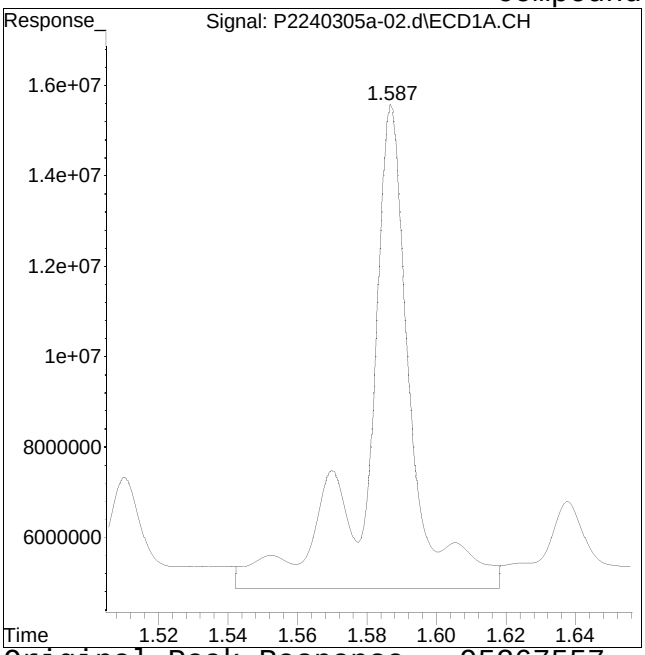


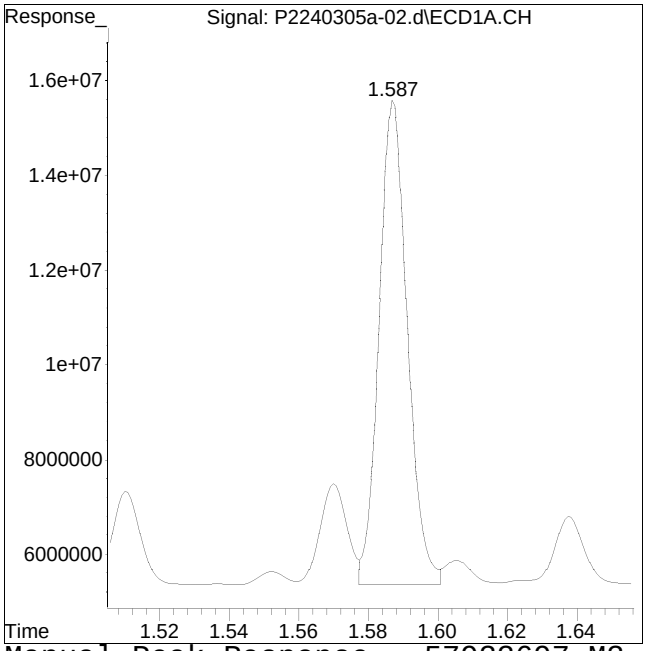
Original Peak Response = 292373866 Manual Peak Response = 281398297 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240305a\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240305a-02.d Operator : pest2:akm
Date Inj'd : 3/5/2024 5:34 am Instrument : Pest 2
Sample : wg1892200-1,42,, +1660 lviQuant Date : 3/5/2024 5:51 am

Compound #4: 1016-1



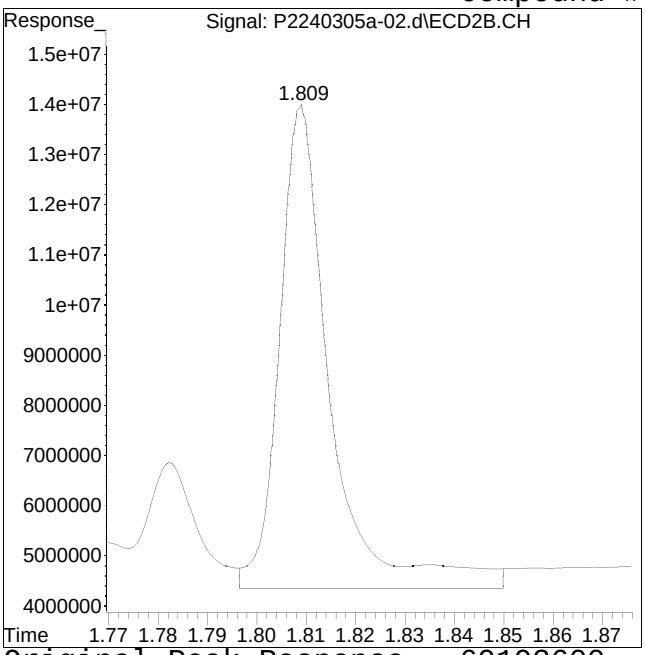


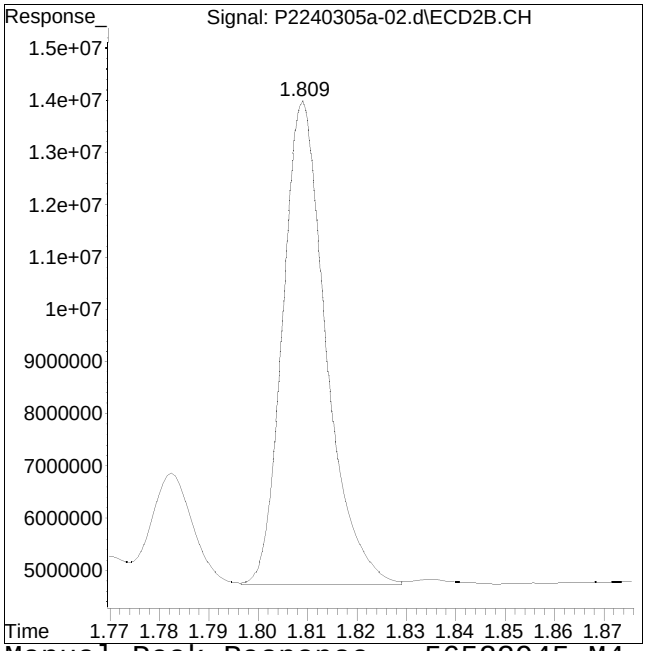
Original Peak Response = 95267557 Manual Peak Response = 57933697 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240305a\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240305a-02.d Operator : pest2:akm
Date Inj'd : 3/5/2024 5:34 am Instrument : Pest 2
Sample : wg1892200-1,42,, +1660 lviQuant Date : 3/5/2024 5:51 am

Compound #55: 1016-1 #2



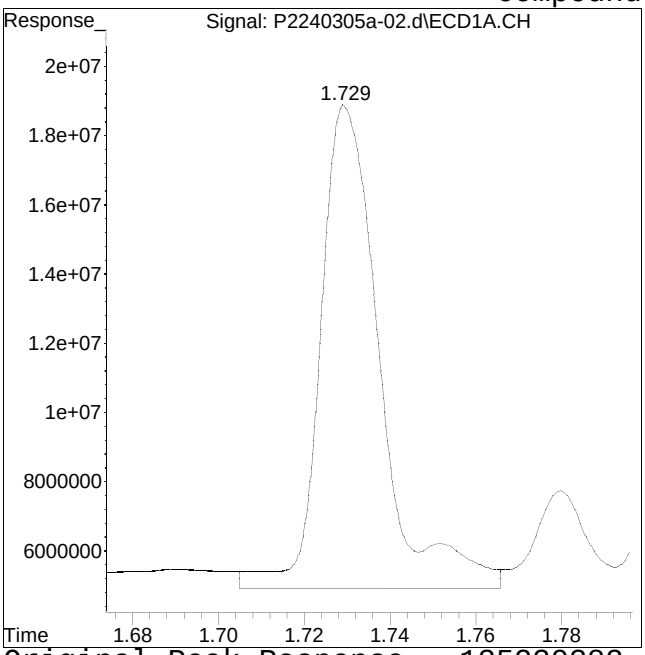


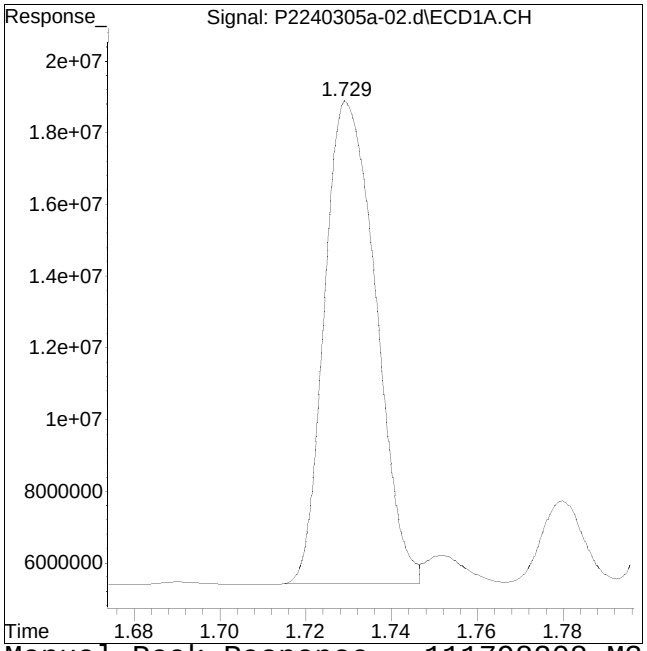
Original Peak Response = 69193600 Manual Peak Response = 56522945 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240305a\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240305a-02.d Operator : pest2:akm
Date Inj'd : 3/5/2024 5:34 am Instrument : Pest 2
Sample : wg1892200-1,42,, +1660 lviQuant Date : 3/5/2024 5:51 am

Compound #5: 1016-2



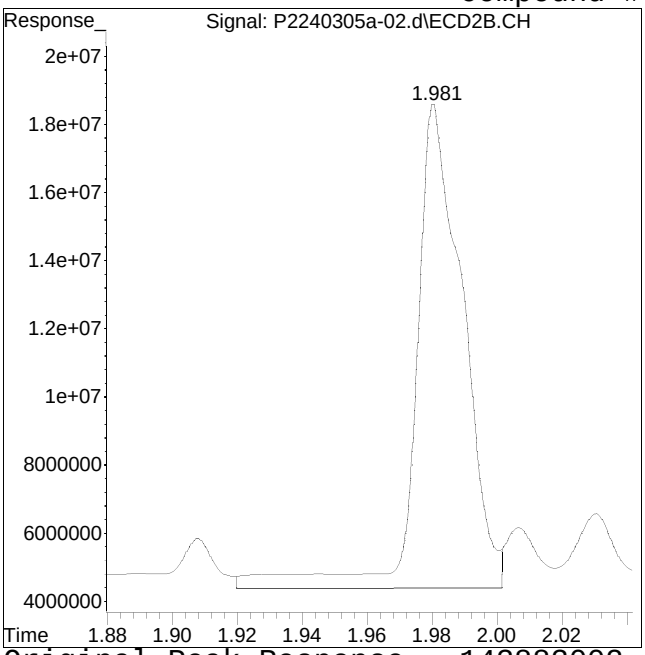


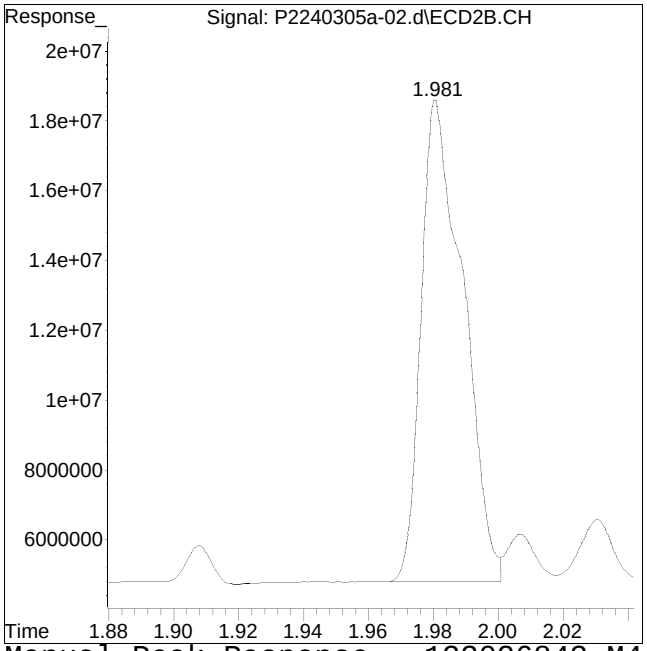
Original Peak Response = 135230382 Manual Peak Response = 111798208 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240305a\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240305a-02.d Operator : pest2:akm
Date Inj'd : 3/5/2024 5:34 am Instrument : Pest 2
Sample : wg1892200-1,42,, +1660 lviQuant Date : 3/5/2024 5:51 am

Compound #56: 1016-2 #2



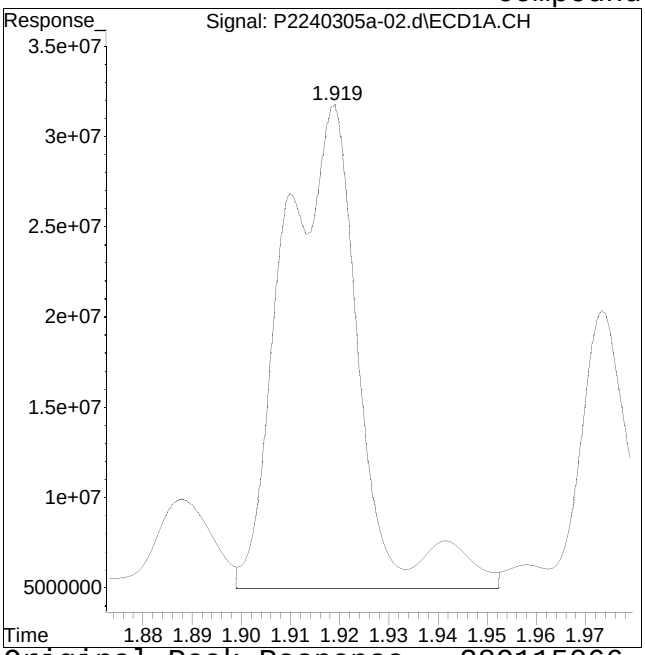


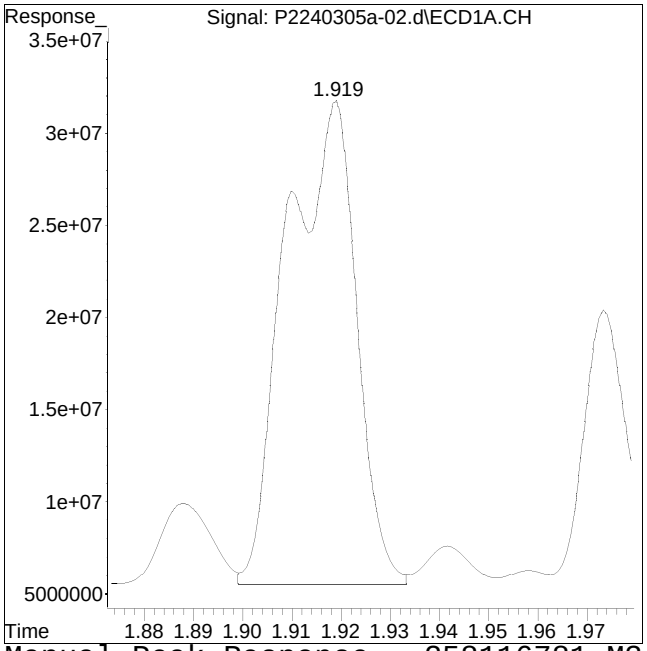
Original Peak Response = 143883002 Manual Peak Response = 123026843 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240305a\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240305a-02.d Operator : pest2:akm
Date Inj'd : 3/5/2024 5:34 am Instrument : Pest 2
Sample : wg1892200-1,42,, +1660 lviQuant Date : 3/5/2024 5:51 am

Compound #6: 1016-3



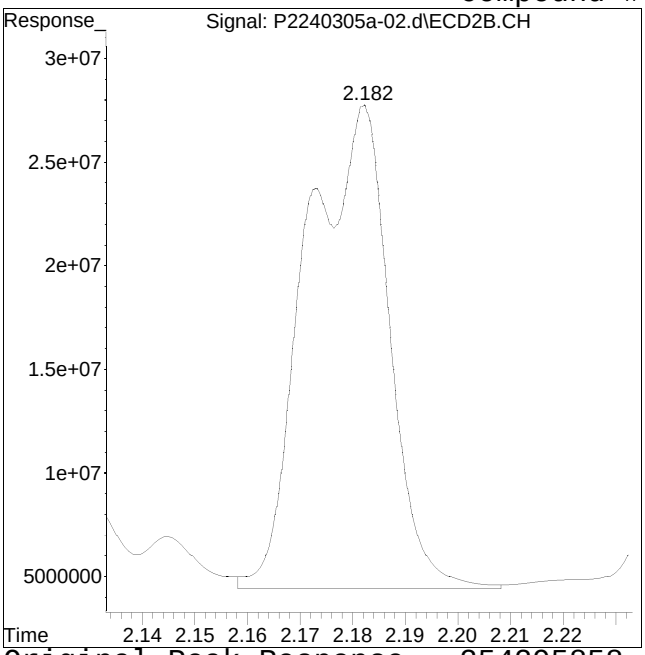


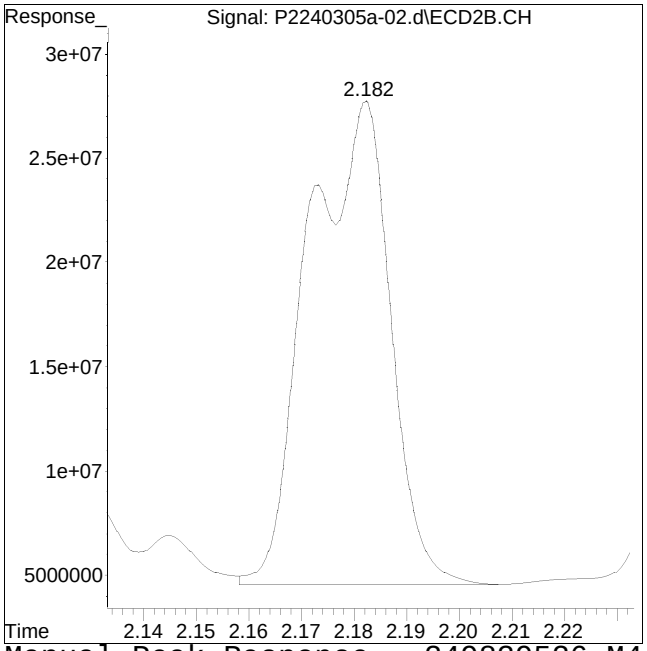
Original Peak Response = 289115066 Manual Peak Response = 258116781 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240305a\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240305a-02.d Operator : pest2:akm
Date Inj'd : 3/5/2024 5:34 am Instrument : Pest 2
Sample : wg1892200-1,42,, +1660 lviQuant Date : 3/5/2024 5:51 am

Compound #57: 1016-3 #2



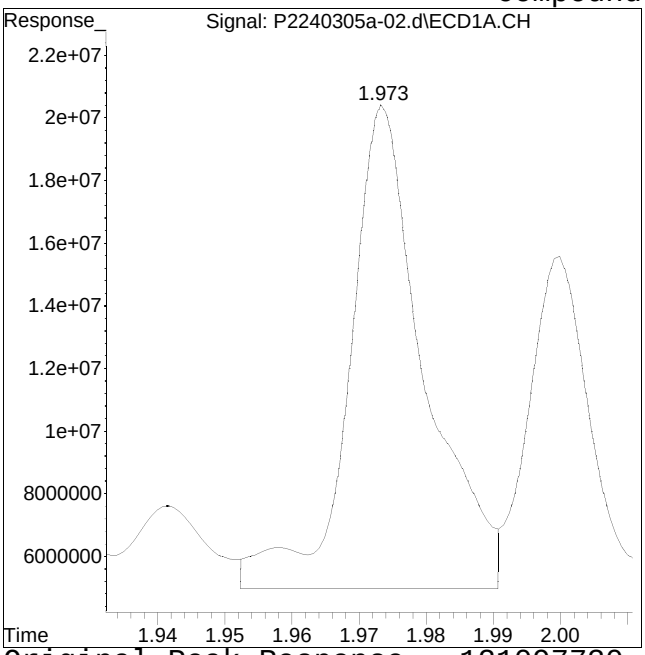


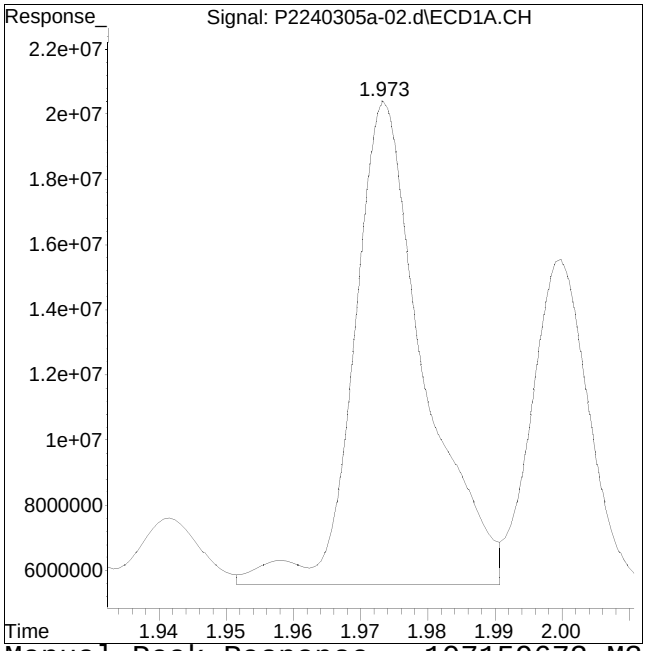
Original Peak Response = 254295858 Manual Peak Response = 249839526 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240305a\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240305a-02.d Operator : pest2:akm
Date Inj'd : 3/5/2024 5:34 am Instrument : Pest 2
Sample : wg1892200-1,42,, +1660 lviQuant Date : 3/5/2024 5:51 am

Compound #7: 1016-4



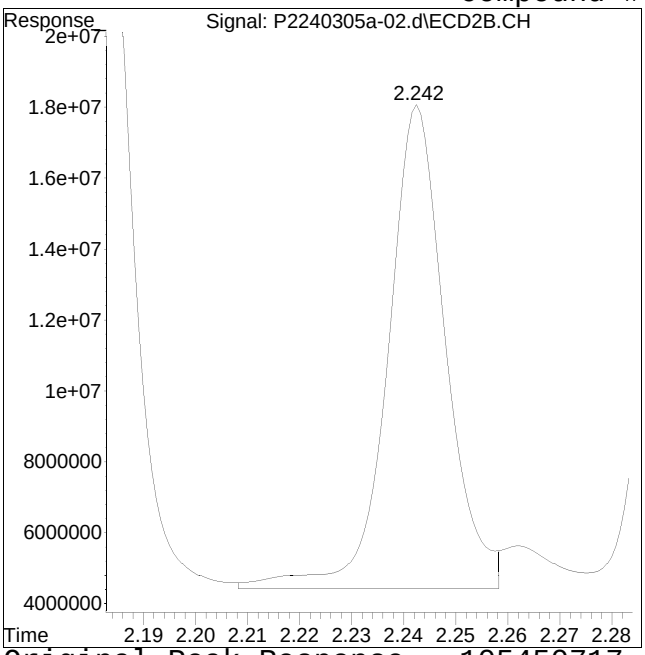


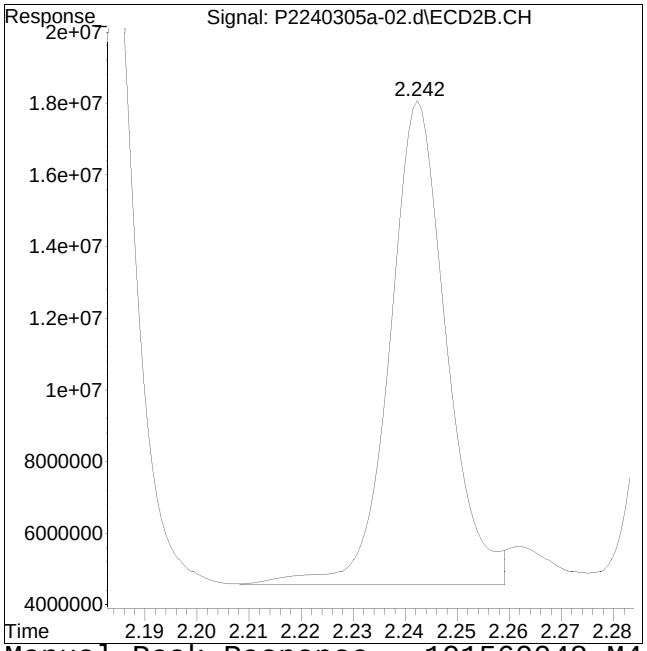
Original Peak Response = 121097730 Manual Peak Response = 107159673 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240305a\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240305a-02.d Operator : pest2:akm
Date Inj'd : 3/5/2024 5:34 am Instrument : Pest 2
Sample : wg1892200-1,42,, +1660 lviQuant Date : 3/5/2024 5:51 am

Compound #58: 1016-4 #2



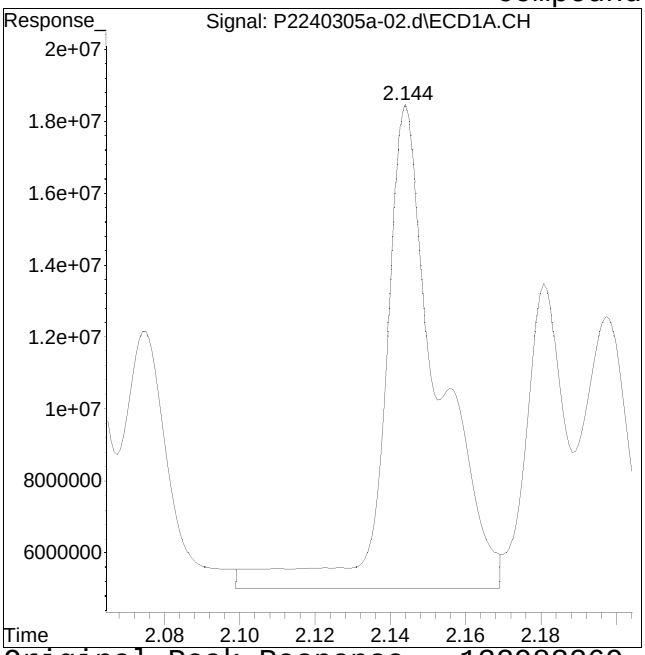


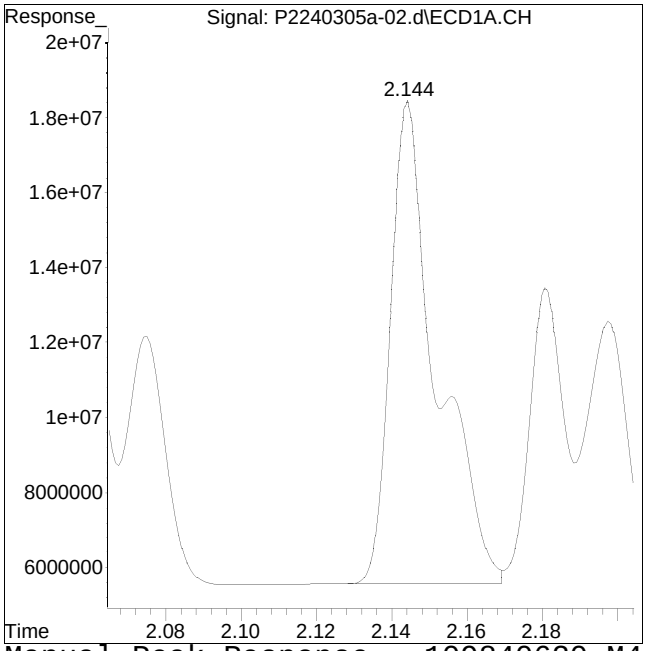
Original Peak Response = 105450717 Manual Peak Response = 101560048 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240305a\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240305a-02.d Operator : pest2:akm
Date Inj'd : 3/5/2024 5:34 am Instrument : Pest 2
Sample : wg1892200-1,42,, +1660 lviQuant Date : 3/5/2024 5:51 am

Compound #8: 1016-5



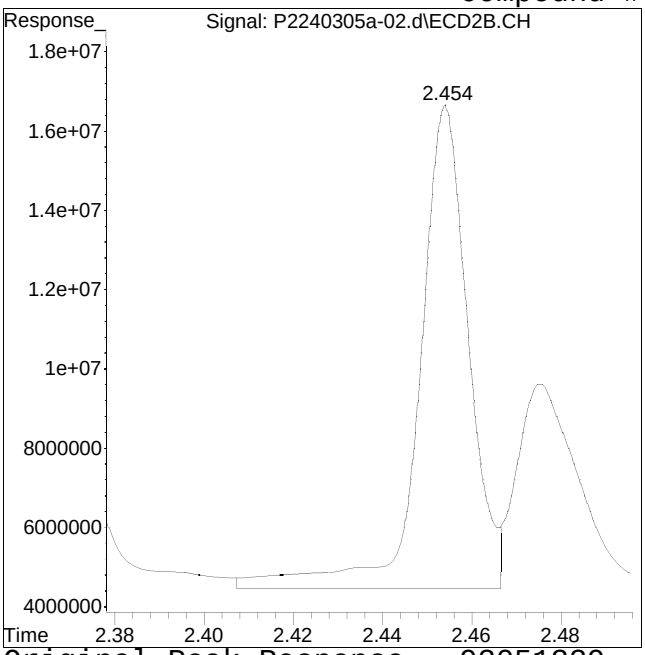


Original Peak Response = 132983269 Manual Peak Response = 109840620 M4
M4 = Poor automated baseline construction.

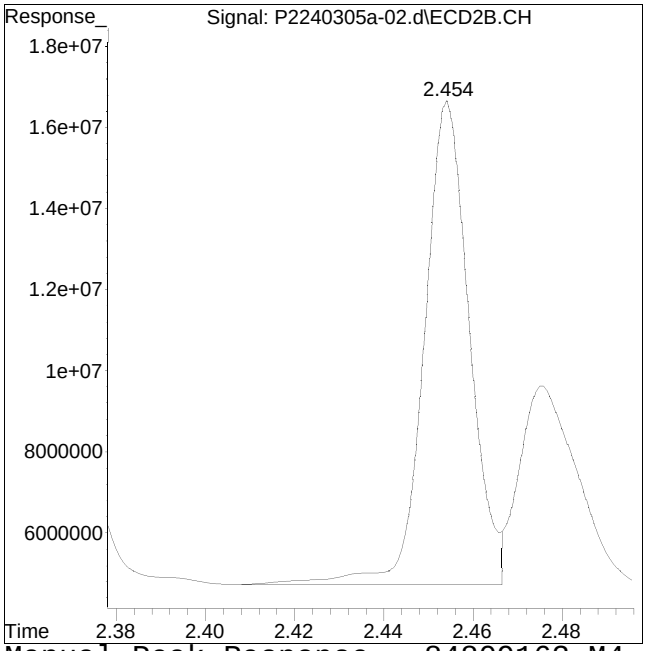
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240305a\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240305a-02.d Operator : pest2:akm
Date Inj'd : 3/5/2024 5:34 am Instrument : Pest 2
Sample : wg1892200-1,42,, +1660 lviQuant Date : 3/5/2024 5:51 am

Compound #59: 1016-5 #2



Original Peak Response = 93051339



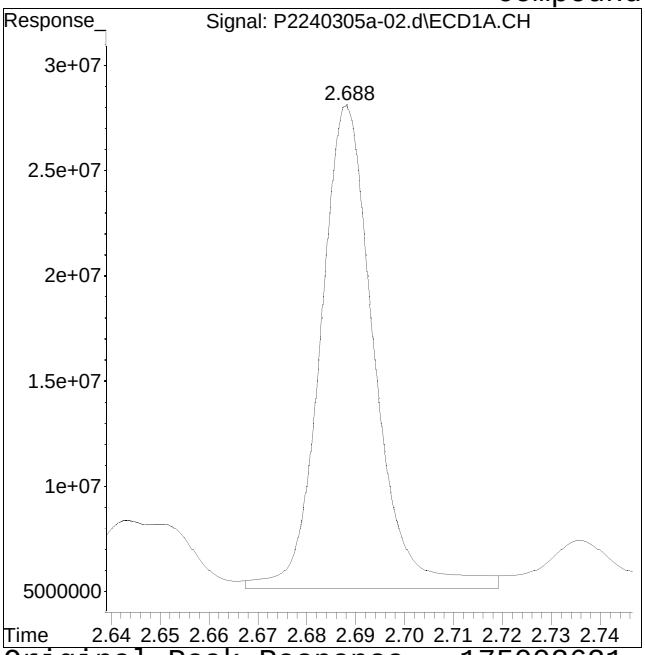
Manual Peak Response = 84809163 M4

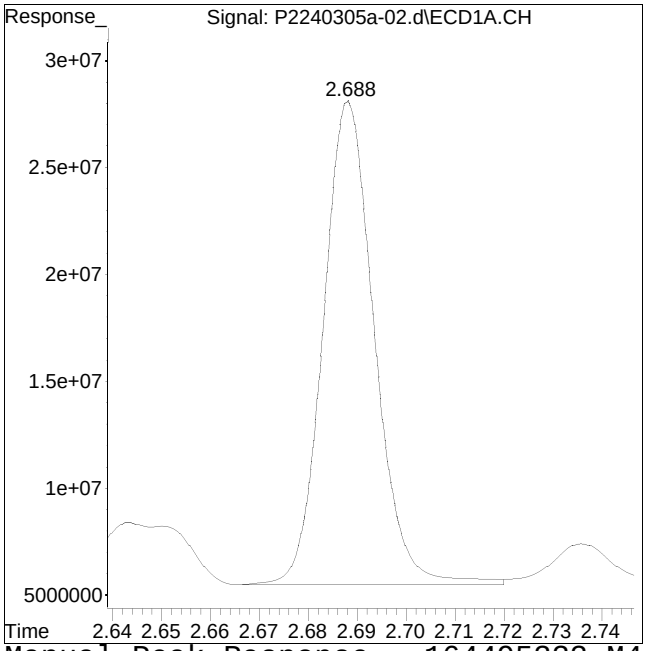
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240305a\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240305a-02.d Operator : pest2:akm
Date Inj'd : 3/5/2024 5:34 am Instrument : Pest 2
Sample : wg1892200-1,42,, +1660 lviQuant Date : 3/5/2024 5:51 am

Compound #9: 1260-1



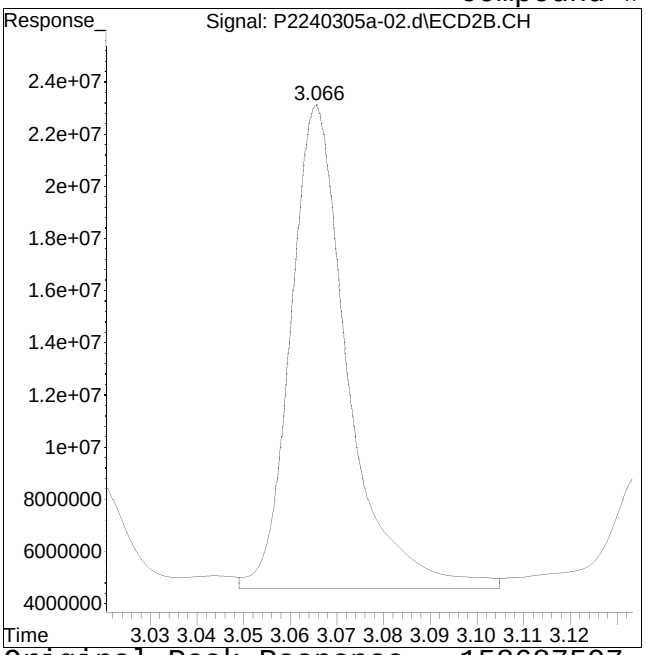


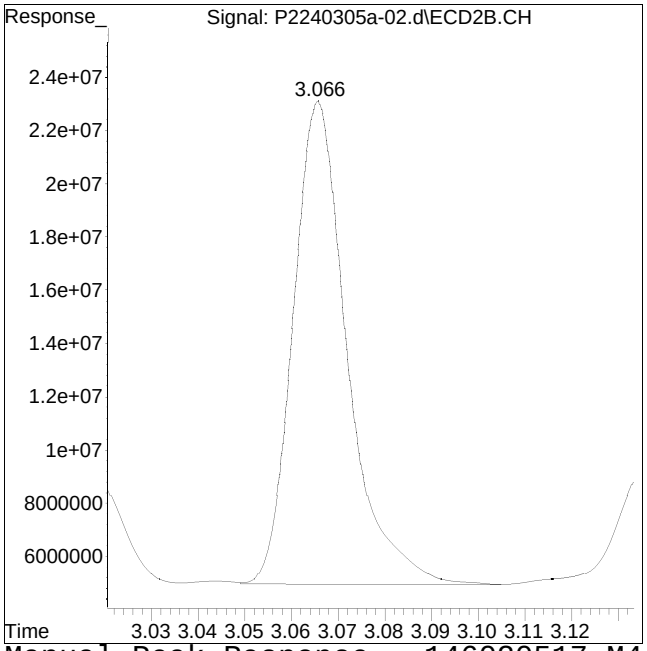
Original Peak Response = 175002621 Manual Peak Response = 164495333 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240305a\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240305a-02.d Operator : pest2:akm
Date Inj'd : 3/5/2024 5:34 am Instrument : Pest 2
Sample : wg1892200-1,42,, +1660 lviQuant Date : 3/5/2024 5:51 am

Compound #60: 1260-1 #2



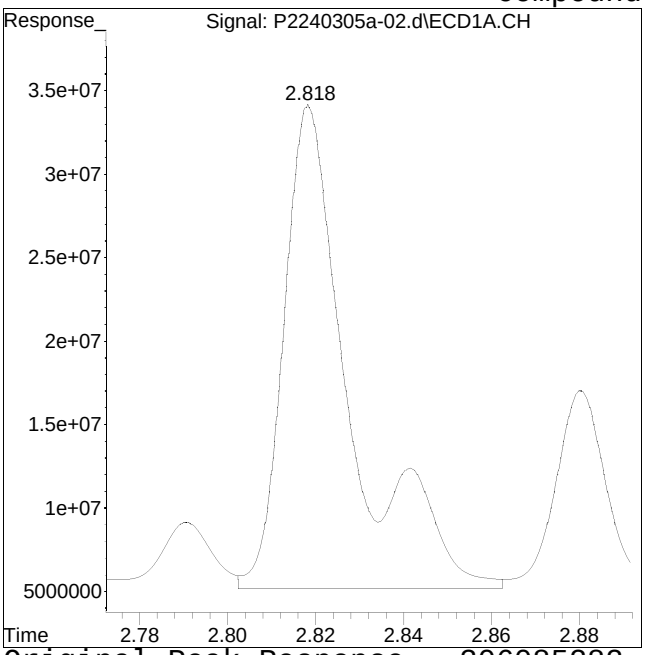


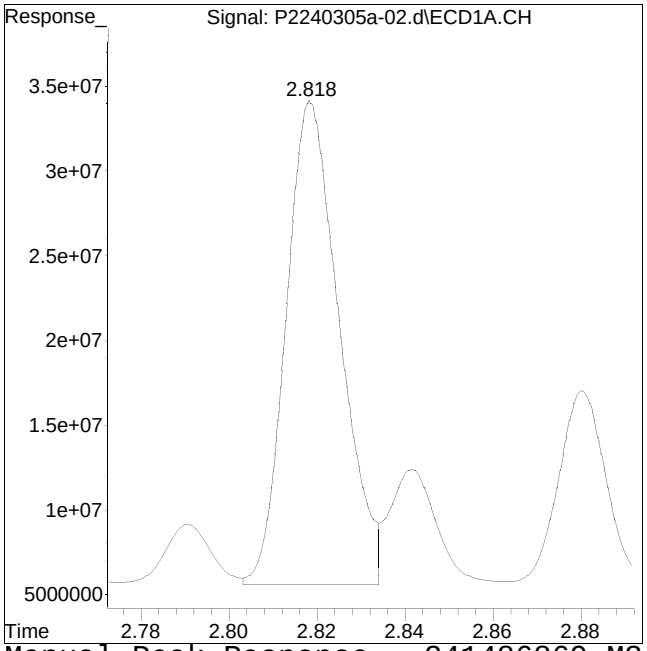
Original Peak Response = 158687507 Manual Peak Response = 146020517 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240305a\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240305a-02.d Operator : pest2:akm
Date Inj'd : 3/5/2024 5:34 am Instrument : Pest 2
Sample : wg1892200-1,42,, +1660 lviQuant Date : 3/5/2024 5:51 am

Compound #10: 1260-2



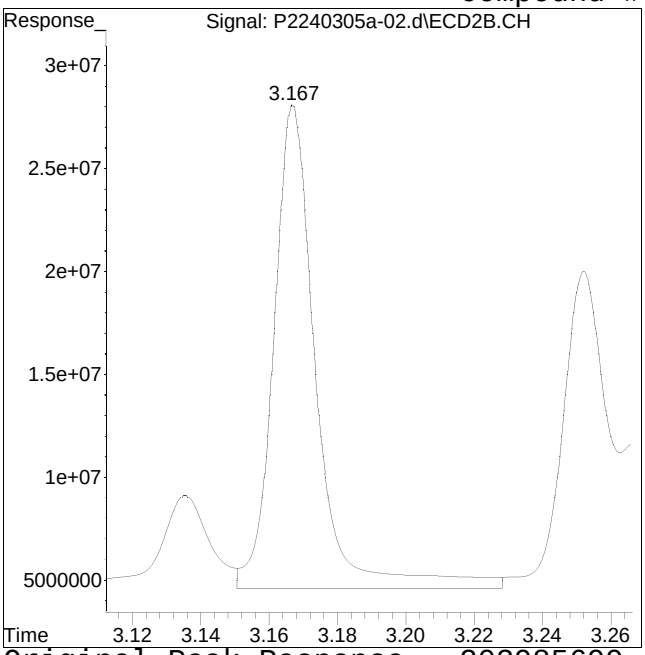


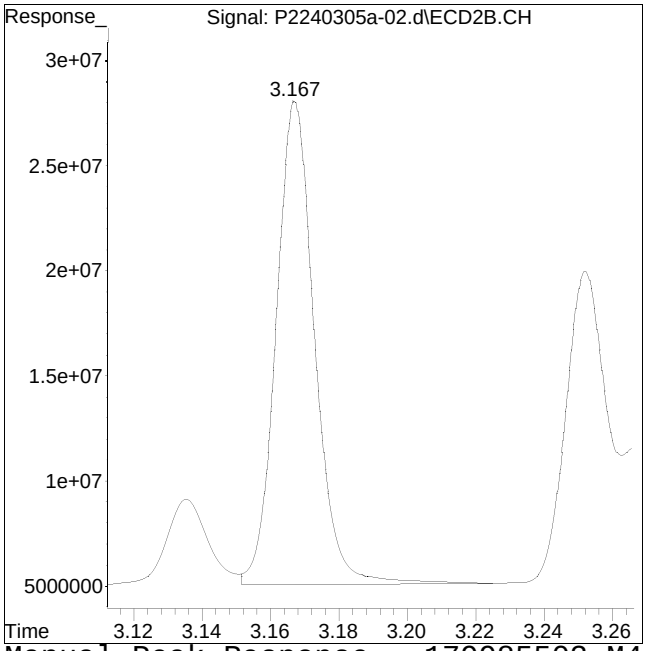
Original Peak Response = 306085282 Manual Peak Response = 241486869 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240305a\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240305a-02.d Operator : pest2:akm
Date Inj'd : 3/5/2024 5:34 am Instrument : Pest 2
Sample : wg1892200-1,42,, +1660 lviQuant Date : 3/5/2024 5:51 am

Compound #61: 1260-2 #2



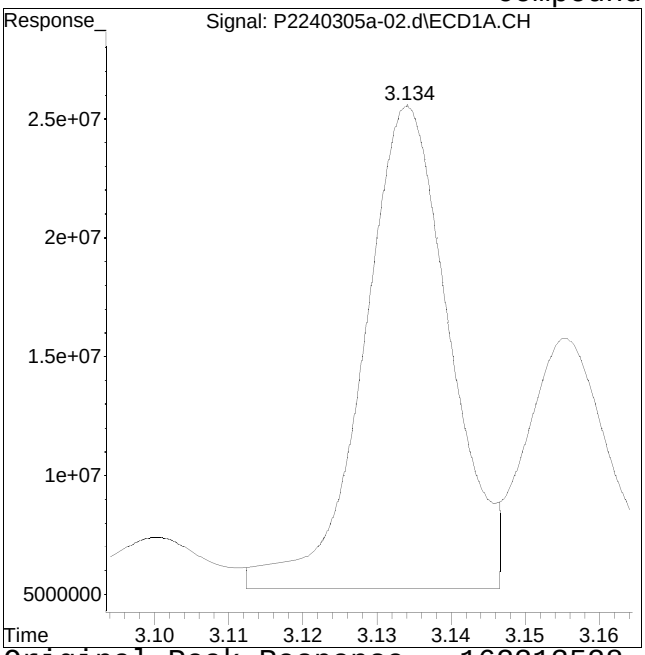


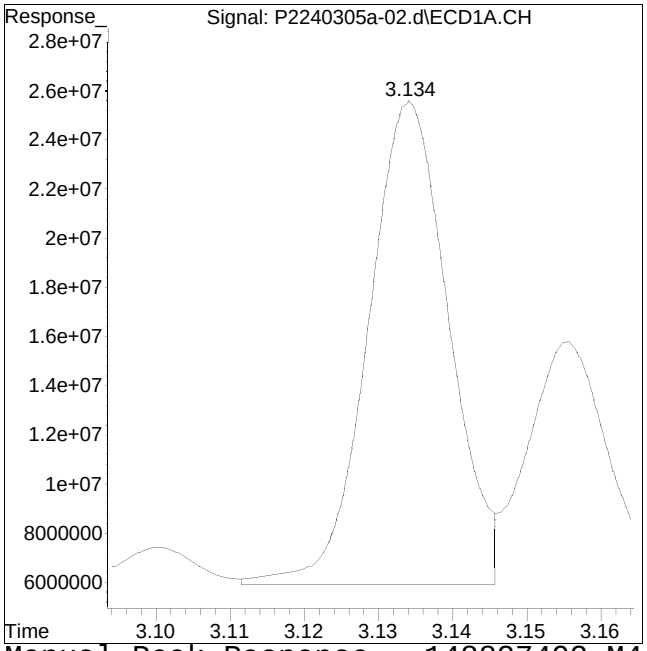
Original Peak Response = 203985699 Manual Peak Response = 179985503 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240305a\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240305a-02.d Operator : pest2:akm
Date Inj'd : 3/5/2024 5:34 am Instrument : Pest 2
Sample : wg1892200-1,42,, +1660 lviQuant Date : 3/5/2024 5:51 am

Compound #11: 1260-3



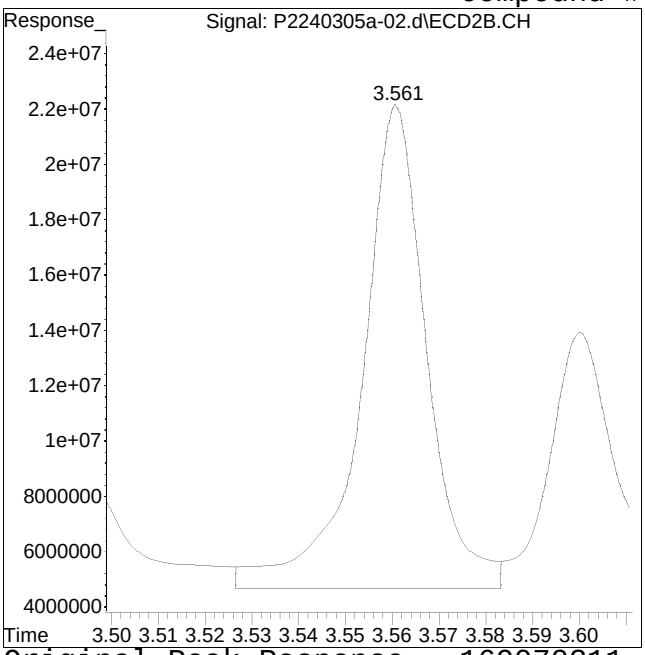


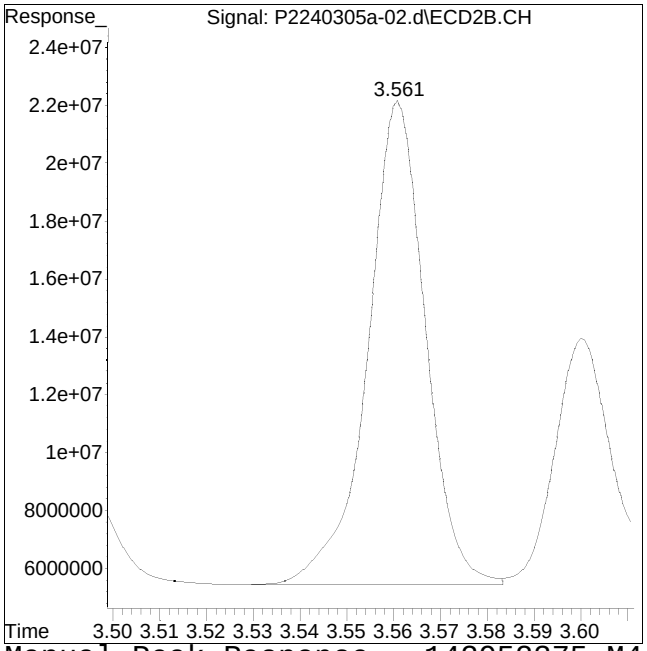
Original Peak Response = 162313528 Manual Peak Response = 148827492 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240305a\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240305a-02.d Operator : pest2:akm
Date Inj'd : 3/5/2024 5:34 am Instrument : Pest 2
Sample : wg1892200-1,42,, +1660 lviQuant Date : 3/5/2024 5:51 am

Compound #62: 1260-3 #2



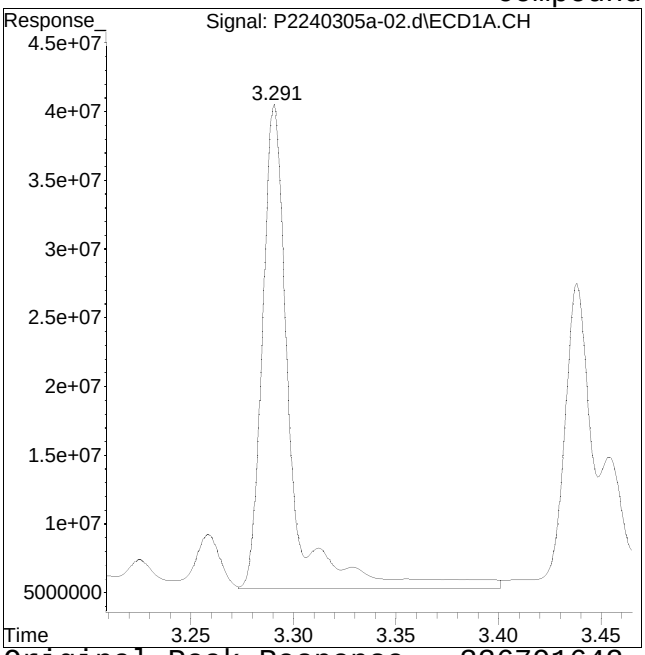


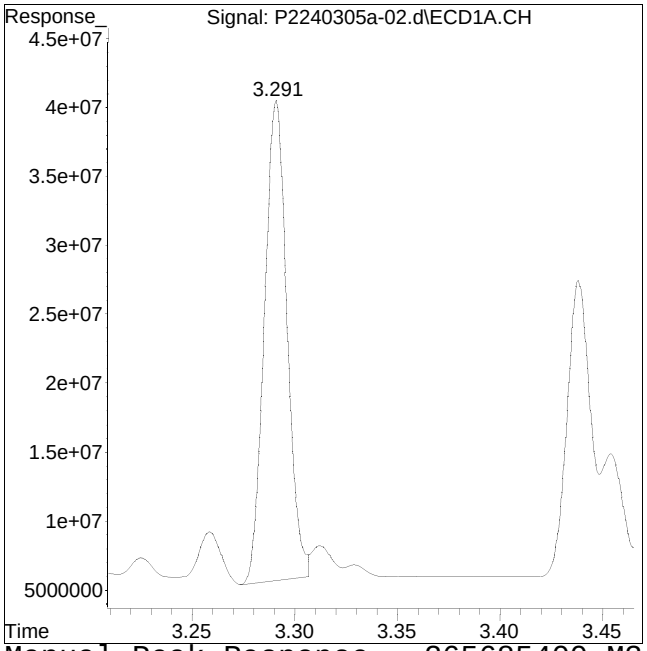
Original Peak Response = 169070311 Manual Peak Response = 142952375 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240305a\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240305a-02.d Operator : pest2:akm
Date Inj'd : 3/5/2024 5:34 am Instrument : Pest 2
Sample : wg1892200-1,42,, +1660 lviQuant Date : 3/5/2024 5:51 am

Compound #12: 1260-4



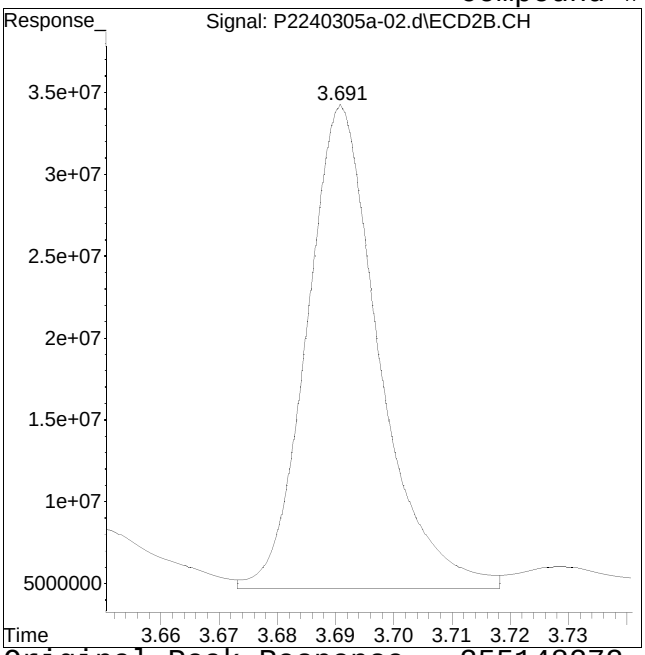


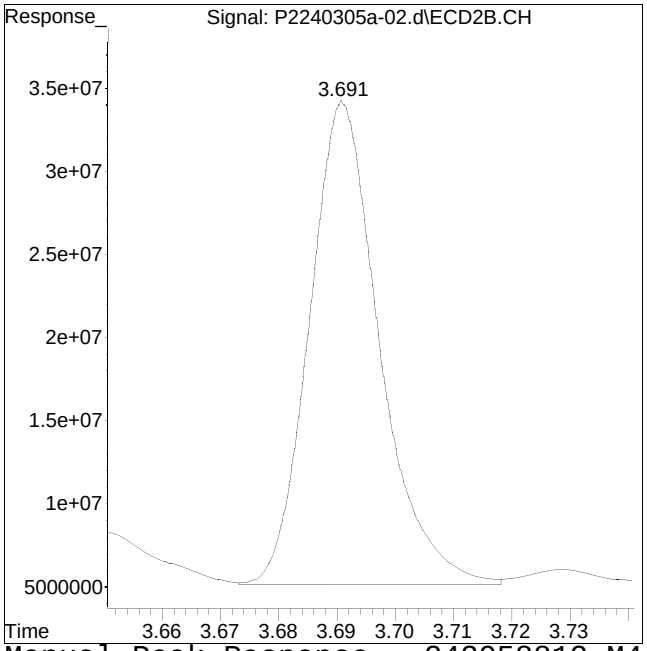
Original Peak Response = 336791642 Manual Peak Response = 265685400 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240305a\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240305a-02.d Operator : pest2:akm
Date Inj'd : 3/5/2024 5:34 am Instrument : Pest 2
Sample : wg1892200-1,42,, +1660 lviQuant Date : 3/5/2024 5:51 am

Compound #63: 1260-4 #2



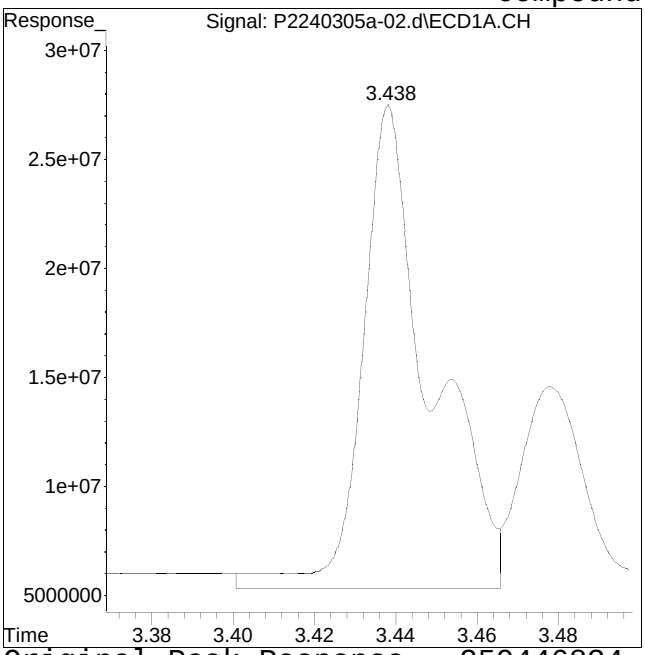


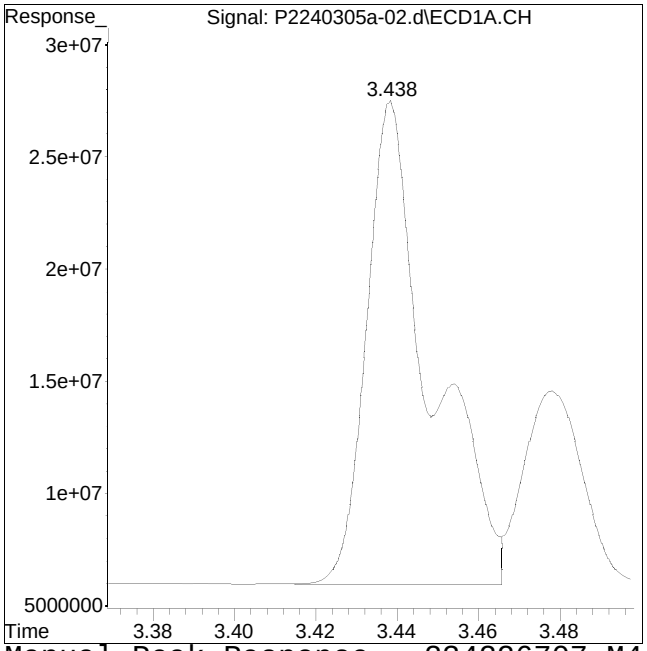
Original Peak Response = 255148272 Manual Peak Response = 242958812 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240305a\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240305a-02.d Operator : pest2:akm
Date Inj'd : 3/5/2024 5:34 am Instrument : Pest 2
Sample : wg1892200-1,42,, +1660 lviQuant Date : 3/5/2024 5:51 am

Compound #13: 1260-5



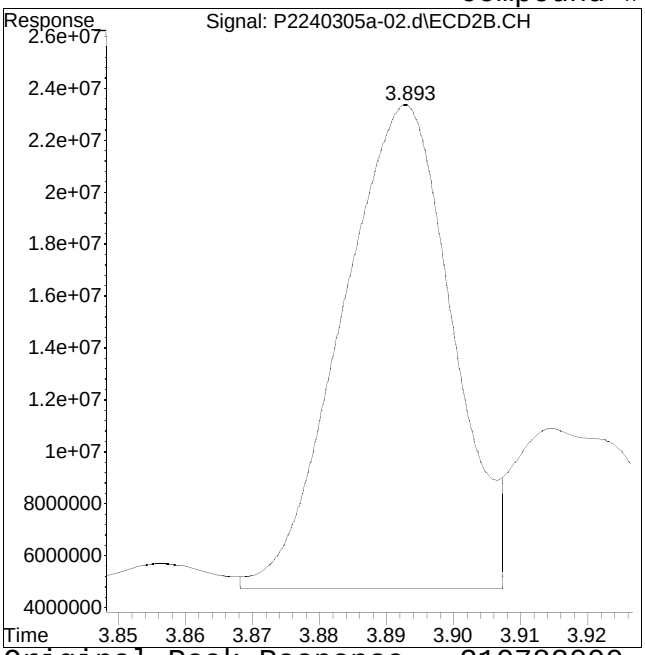


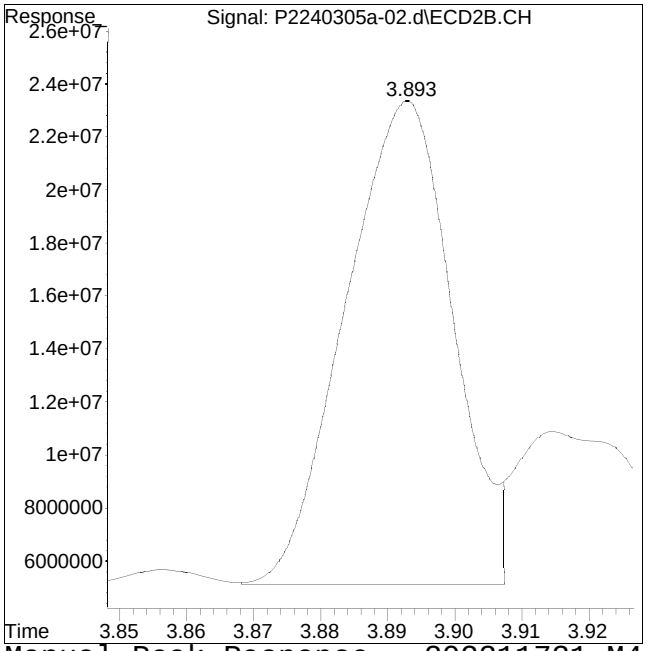
Original Peak Response = 259446834 Manual Peak Response = 234226707 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240305a\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240305a-02.d Operator : pest2:akm
Date Inj'd : 3/5/2024 5:34 am Instrument : Pest 2
Sample : wg1892200-1,42,, +1660 lviQuant Date : 3/5/2024 5:51 am

Compound #64: 1260-5 #2





Original Peak Response = 210782000 Manual Peak Response = 202311731 M4
M4 = Poor automated baseline construction.

RT Shift Summary

Identification Summary
Form 10
PCBs

Client	**: Alpha Geoscience**	**Lab Number**	**: L2410579**
Project Name	**: HUNTINGTON READY MIX**	**Project Number**	**: 20116**

No Detections Found

Aroclor Raw QC Data

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240305a\
Data File : P2240305a-06.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 05 Mar 2024 7:16 am
Operator : pest2:meo
Sample : WG1892017-1,42,,
Misc : wg1892200,WG1892017,ical20902
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Mar 05 08:47:30 2024
Quant Method : I:\PCB\Pest2\2024\240305A\P2_pcb_02_29_24_LVI_ugL_ICAL20902.m
Quant Title : pcb
QLast Update : Thu Feb 29 16:00:47 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240305a\P2240305a-02.D
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards							
1) i	1660_1br2nb	1.169	1.233	222.7E6	255.1E6	25.000	25.000
	Standard Area 1 : #1 = 228178279				Recovery =	97.62%	
	Standard Area 1 : #2 = 242790109				Recovery =	105.07%	
14) i	2154_1br2nb	1.169	1.233	222.7E6	255.1E6	25.000	25.000
23) i	4268_1br2nb	1.169	1.233	222.7E6	255.1E6	25.000	25.000
34) i	1248_1br2nb	1.169	1.233	222.7E6	255.1E6	25.000	25.000
40) i	3262_1br2nb	1.169	1.233	222.7E6	255.1E6	25.000	25.000
System Monitoring Compounds							
2) s	2,4,5,6-Tetr	1.459	1.613	176.1E6	193.0E6	15.083	15.366
	Spiked Amount 20.000	Range 30 - 150			Recovery =	75.41%	76.83%
3) s	Decachlorobi	4.050	4.571	152.6E6	130.3E6	18.044M4	19.260
	Spiked Amount 20.000	Range 30 - 150			Recovery =	90.22%	96.30%
Target Compounds							
4) l1	1016-1	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-2	0.000	0.000	0	0	N.D. d	N.D. d
6) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
8) l1	1016-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1016-1			0	0	N.D.	N.D.
	Average 1016-1					0.000	0.000
9) l2	1260-1	2.720f	0.000	1518328	0	2.549M4	N.D. d
10) l2	1260-2	0.000	0.000	0	0	N.D. d	N.D. d
11) l2	1260-3	0.000	3.577	0	1411318	N.D. d	2.764M4
12) l2	1260-4	3.320f	3.706	2387697	2493292	2.062	2.372M4
13) l2	1260-5	3.466f	3.909	2835962	1199742	3.325M1	1.656
	Sum 1260-1			6741987	5104352	7.935	6.791
	Average 1260-1					2.645	2.264
15) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d
16) l3	1221-3	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PCB\Pest2\2024\240305a\
Data File : P2240305a-06.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 05 Mar 2024 7:16 am
Operator : pest2:meo
Sample : WG1892017-1,42,,
Misc : wg1892200,WG1892017,ical20902
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Mar 05 08:47:30 2024
Quant Method : I:\PCB\Pest2\2024\240305A\P2_pcb_02_29_24_LVI_ugL_ICAL20902.m
Quant Title : pcb
QLast Update : Thu Feb 29 16:00:47 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240305a\P2240305a-02.D
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
17) l3 1221-4	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1221-2			0	0	N.D.	N.D.
Average 1221-2					0.000	0.000
18) l4 1254-1	2.340f	0.000	1145324	0	2.905M4	N.D. d
19) l4 1254-2	0.000	2.760f	0	1832940	N.D. d	3.633M4
20) l4 1254-3	2.636f	2.989	2031126	1631715	2.969M4	2.303M4
21) l4 1254-4	2.766f	3.100	1339703	1593023	2.538	3.463M2
22) l4 1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1254-1			4516154	5057679	8.412	9.399
Average 1254-1					2.804	3.133
24) l6 1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6 1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6 1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6 1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6 1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1242-1			0	0	N.D.	N.D.
Average 1242-1					0.000	0.000
29) l9 1268-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l9 1268-2	0.000	0.000	0	0	N.D. d	N.D. d
31) l9 1268-3	0.000	0.000	0	0	N.D. d	N.D. d
32) l9 1268-4	0.000	0.000	0	0	N.D. d	N.D. d
33) l9 1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1268-1			0	0	N.D.	N.D.
Average 1268-1					0.000	0.000
35) l7 1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7 1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7 1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7 1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7 1248-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1248-1			0	0	N.D.	N.D.
Average 1248-1					0.000	0.000
41) l5 1232-1	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PCB\Pest2\2024\240305a\
Data File : P2240305a-06.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 05 Mar 2024 7:16 am
Operator : pest2:meo
Sample : WG1892017-1,42,,
Misc : wg1892200,WG1892017,ical20902
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Mar 05 08:47:30 2024
Quant Method : I:\PCB\Pest2\2024\240305A\P2_pcb_02_29_24_LVI_ugL_ICAL20902.m
Quant Title : pcb
QLast Update : Thu Feb 29 16:00:47 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240305a\P2240305a-02.D
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
42) l5 1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5 1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5 1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5 1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1232-1			0	0	N.D.	N.D.
Average 1232-1					0.000	0.000
46) l8 1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8 1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8 1262-3	0.000	0.000	0	0	N.D. d	N.D. d
49) l8 1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50) l8 1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument						
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000

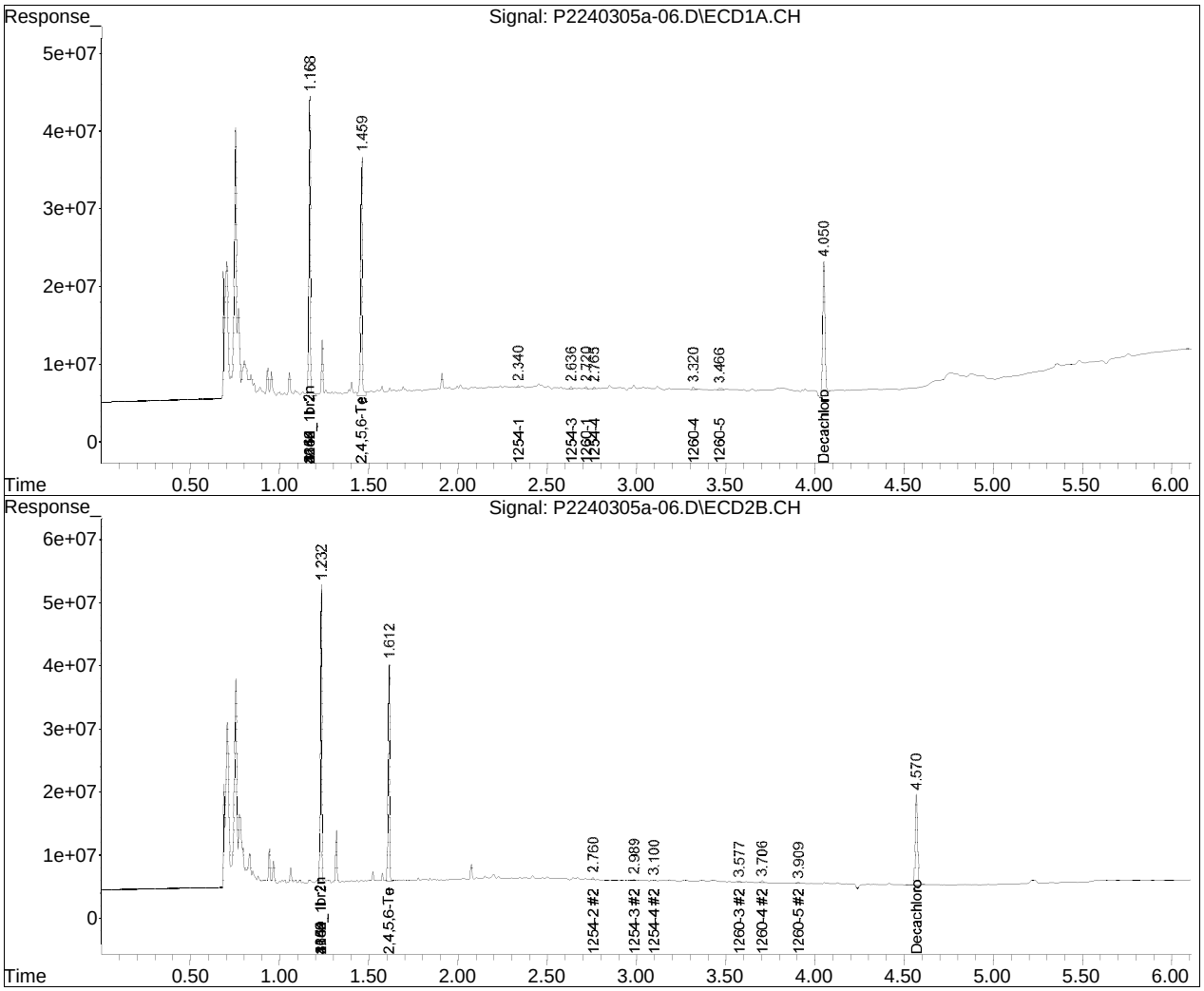
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.

Sub List : Default - All compounds listedP2240305a-02.D••

Data Path : I:\PCB\Pest2\2024\240305a\
Data File : P2240305a-06.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 05 Mar 2024 7:16 am
Operator : pest2:meo
Sample : WG1892017-1,42,,
Misc : wg1892200,WG1892017,ical20902
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Mar 05 08:47:30 2024
Quant Method : I:\PCB\Pest2\2024\240305A\P2_pcb_02_29_24_LVI_ugL_ICAL20902.m
Quant Title : pcb
QLast Update : Thu Feb 29 16:00:47 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

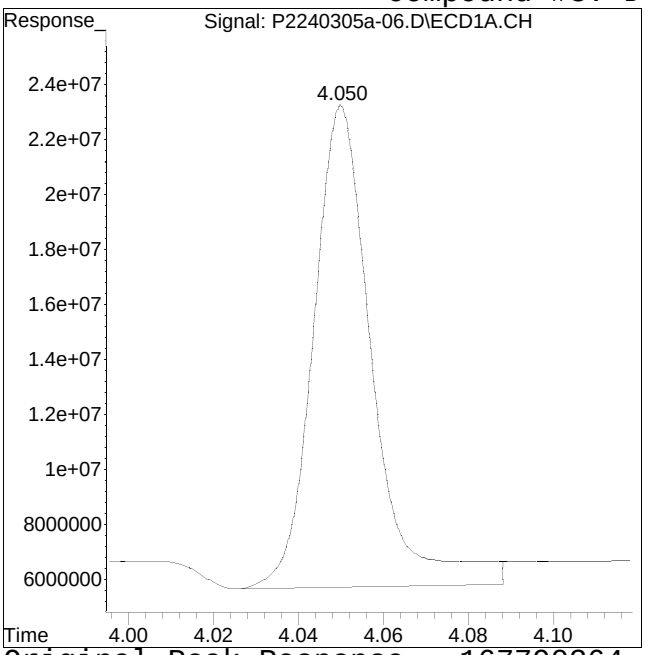
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

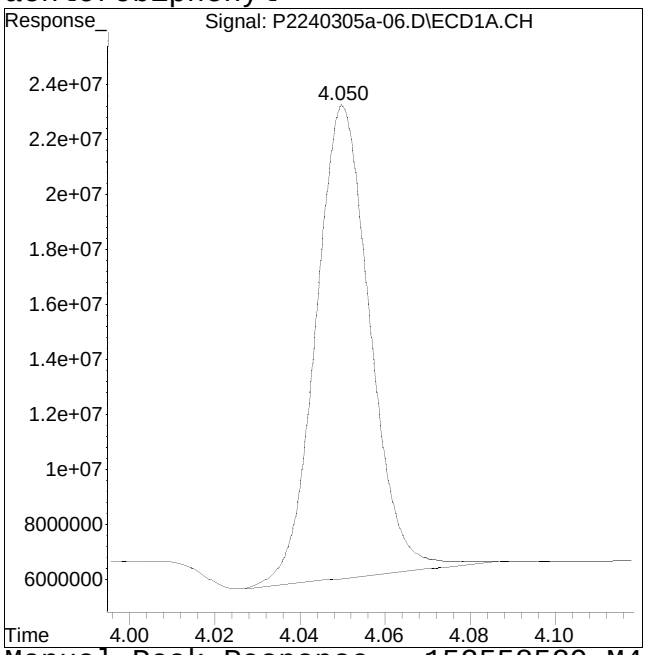


Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240305a\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240305a-06.D Operator : pest2:meo
Date Inj'd : 3/5/2024 7:16 am Instrument : Pest 2
Sample : WG1892017-1,42,, Quant Date : 3/5/2024 8:45 am

Compound #3: Decachlorobiphenyl



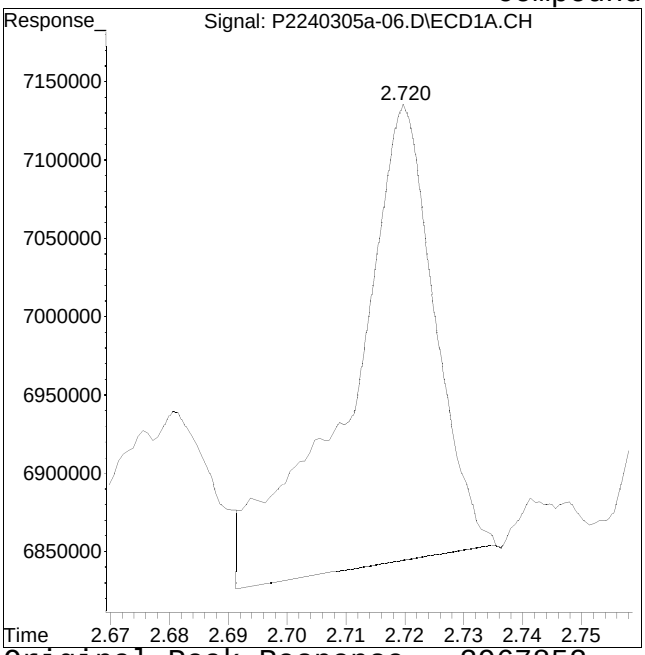


Original Peak Response = 167790364 Manual Peak Response = 152558529 M4
M4 = Poor automated baseline construction.

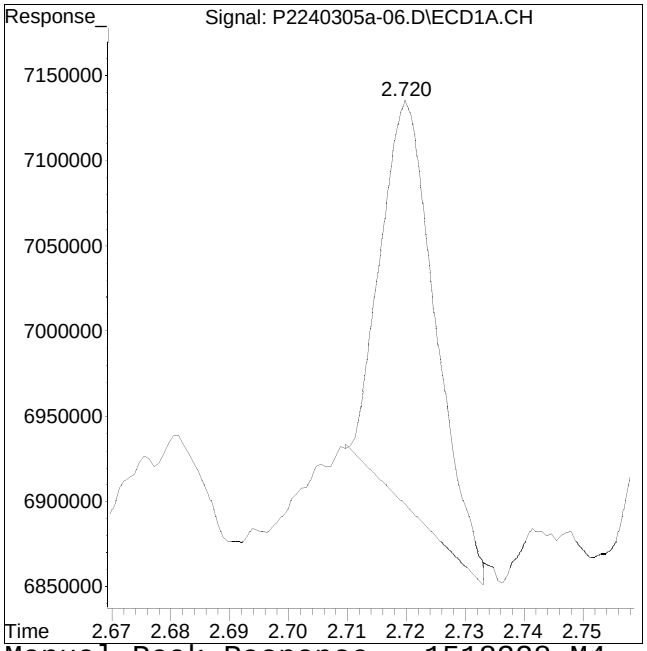
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240305a\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240305a-06.D Operator : pest2:meo
Date Inj'd : 3/5/2024 7:16 am Instrument : Pest 2
Sample : WG1892017-1,42,, Quant Date : 3/5/2024 8:45 am

Compound #9: 1260-1



Original Peak Response = 2967852



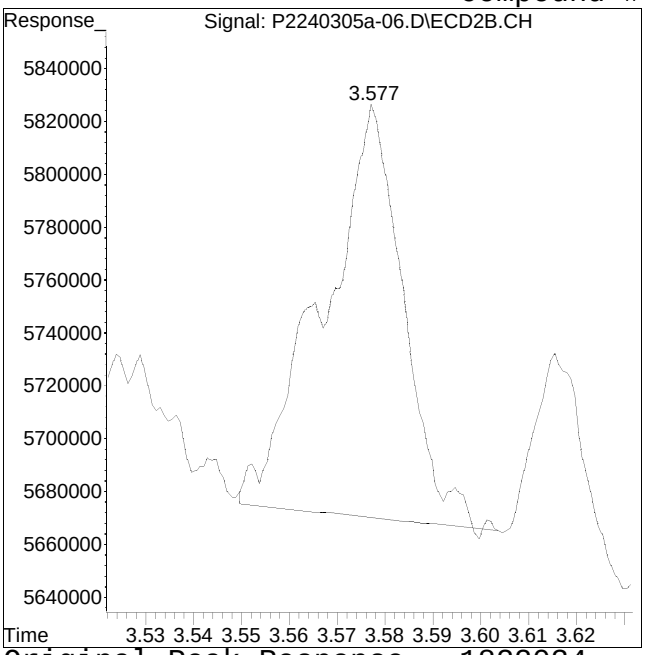
Manual Peak Response = 1518328 M4

M4 = Poor automated baseline construction.

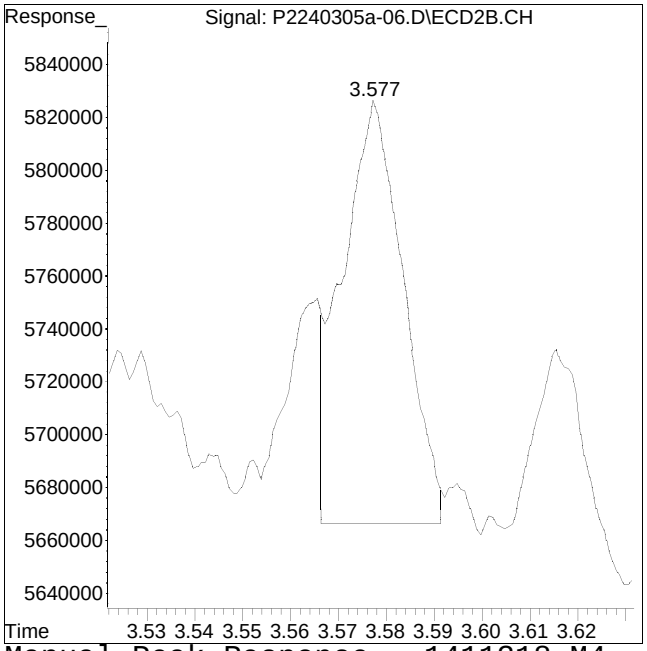
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240305a\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240305a-06.D Operator : pest2:meo
Date Inj'd : 3/5/2024 7:16 am Instrument : Pest 2
Sample : WG1892017-1,42,, Quant Date : 3/5/2024 8:45 am

Compound #62: 1260-3 #2



Original Peak Response = 1822034



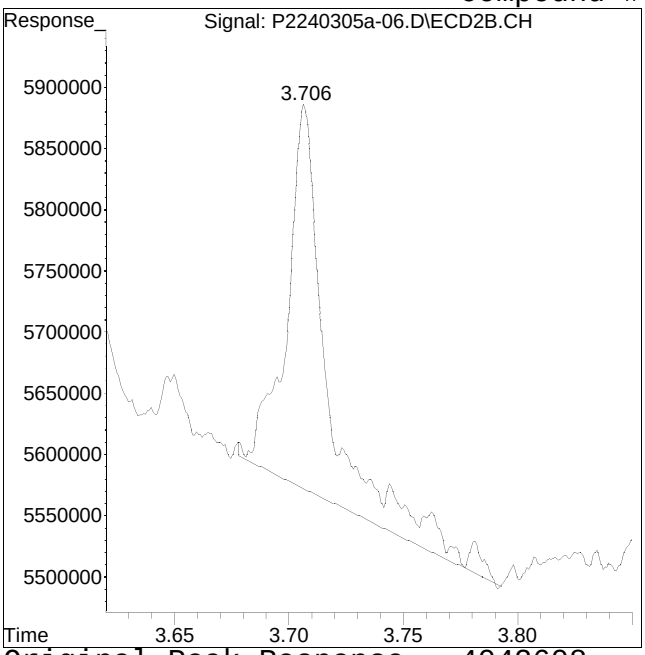
Manual Peak Response = 1411318 M4

M4 = Poor automated baseline construction.

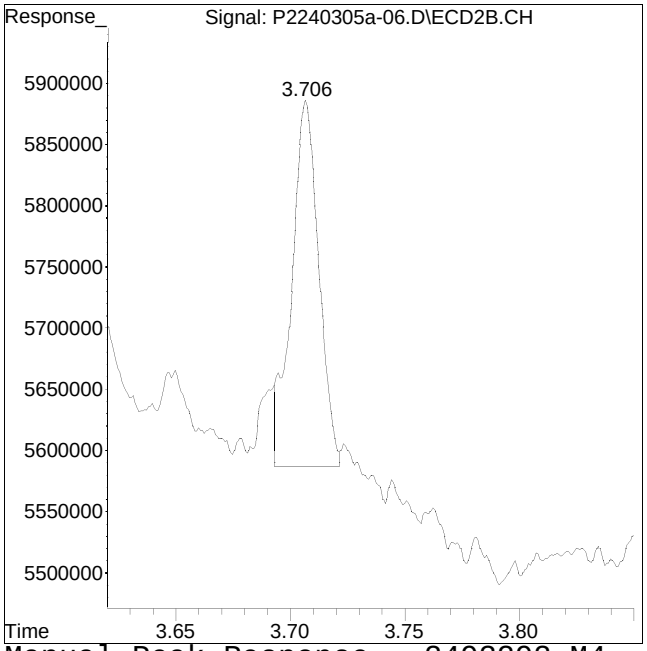
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240305a\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240305a-06.D Operator : pest2:meo
Date Inj'd : 3/5/2024 7:16 am Instrument : Pest 2
Sample : WG1892017-1,42,, Quant Date : 3/5/2024 8:45 am

Compound #63: 1260-4 #2



Original Peak Response = 4042608



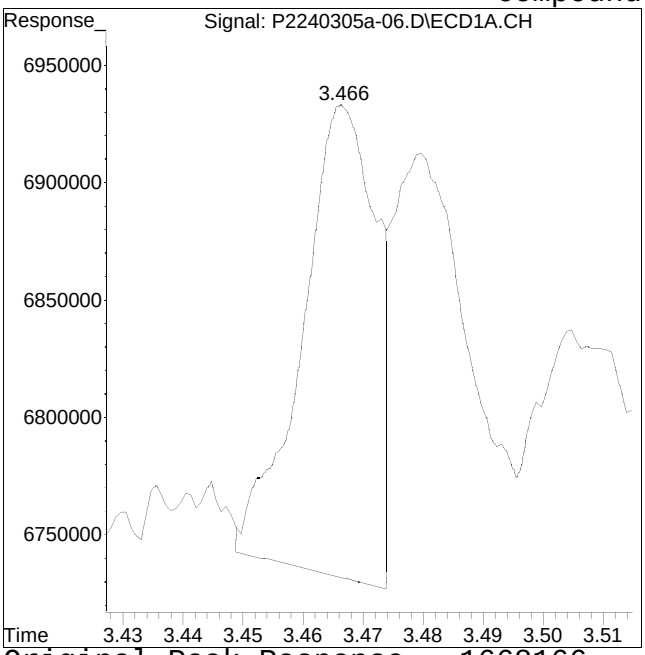
Manual Peak Response = 2493292 M4

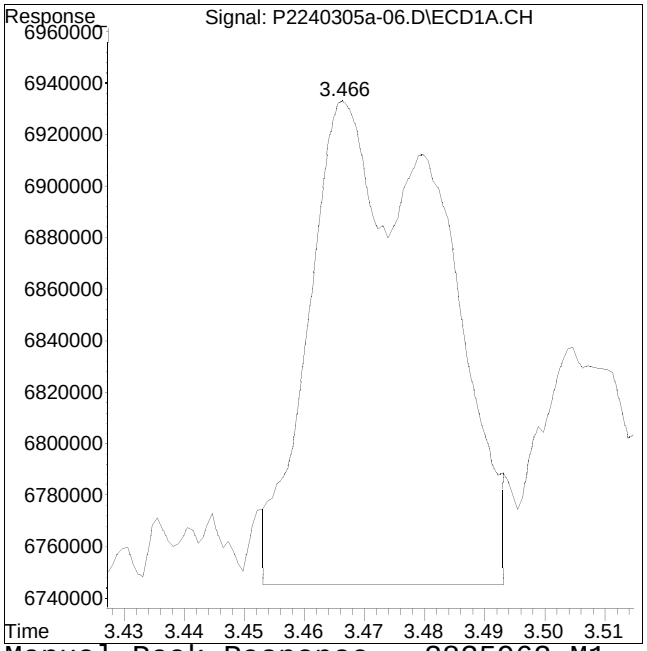
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240305a\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240305a-06.D Operator : pest2:meo
Date Inj'd : 3/5/2024 7:16 am Instrument : Pest 2
Sample : WG1892017-1,42,, Quant Date : 3/5/2024 8:45 am

Compound #13: 1260-5



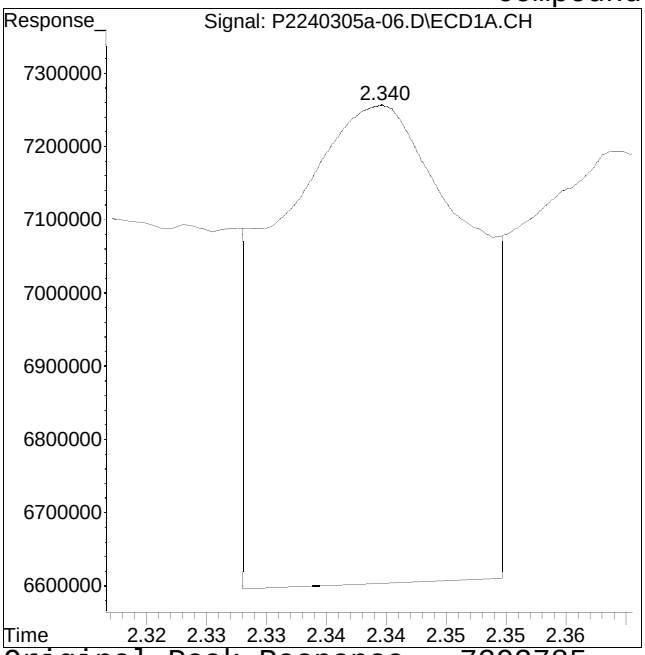


Original Peak Response = 1668166 Manual Peak Response = 2835962 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

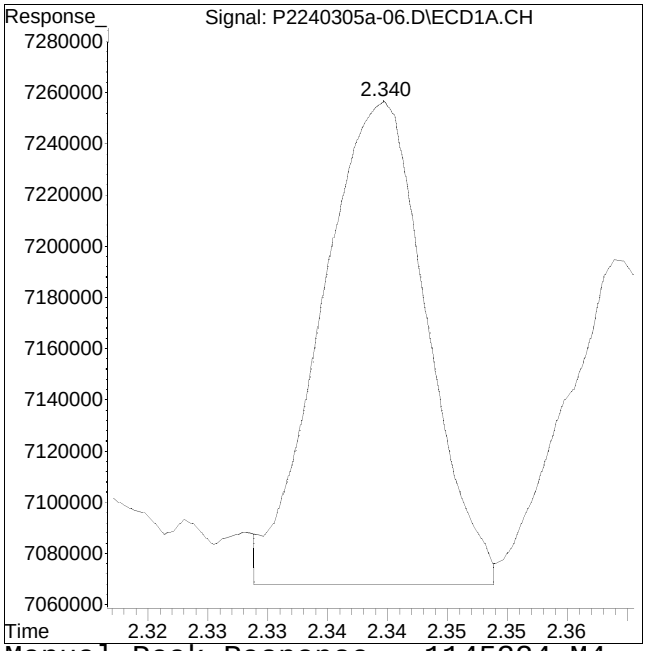
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240305a\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240305a-06.D Operator : pest2:meo
Date Inj'd : 3/5/2024 7:16 am Instrument : Pest 2
Sample : WG1892017-1,42,, Quant Date : 3/5/2024 8:45 am

Compound #18: 1254-1



Original Peak Response = 7293785



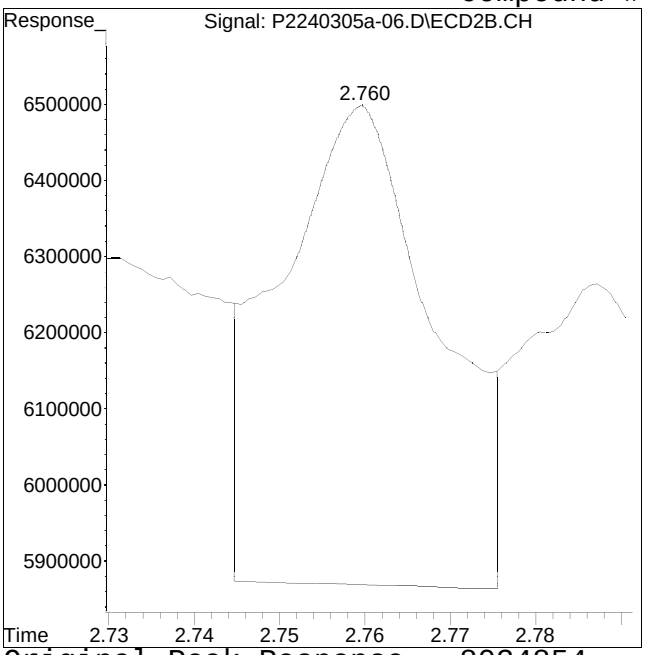
Manual Peak Response = 1145324 M4

M4 = Poor automated baseline construction.

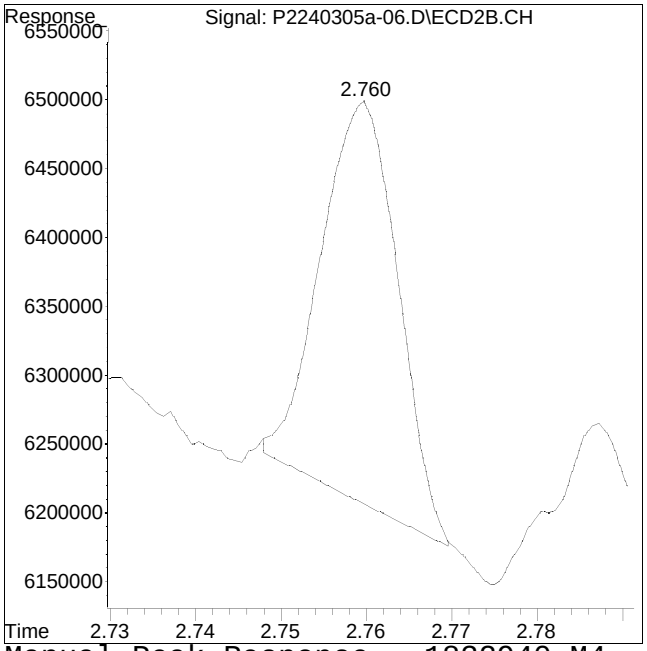
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240305a\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240305a-06.D Operator : pest2:meo
Date Inj'd : 3/5/2024 7:16 am Instrument : Pest 2
Sample : WG1892017-1,42,, Quant Date : 3/5/2024 8:45 am

Compound #70: 1254-2 #2



Original Peak Response = 8034854



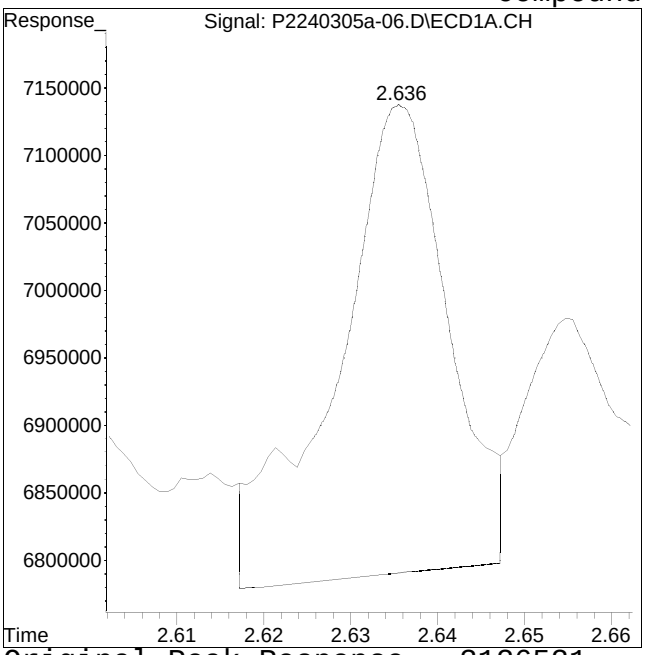
Manual Peak Response = 1832940 M4

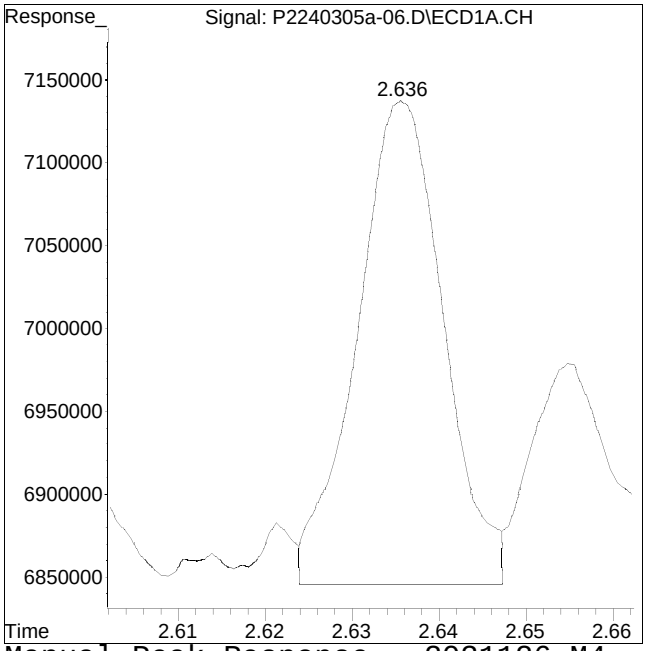
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240305a\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240305a-06.D Operator : pest2:meo
Date Inj'd : 3/5/2024 7:16 am Instrument : Pest 2
Sample : WG1892017-1,42,, Quant Date : 3/5/2024 8:45 am

Compound #20: 1254-3



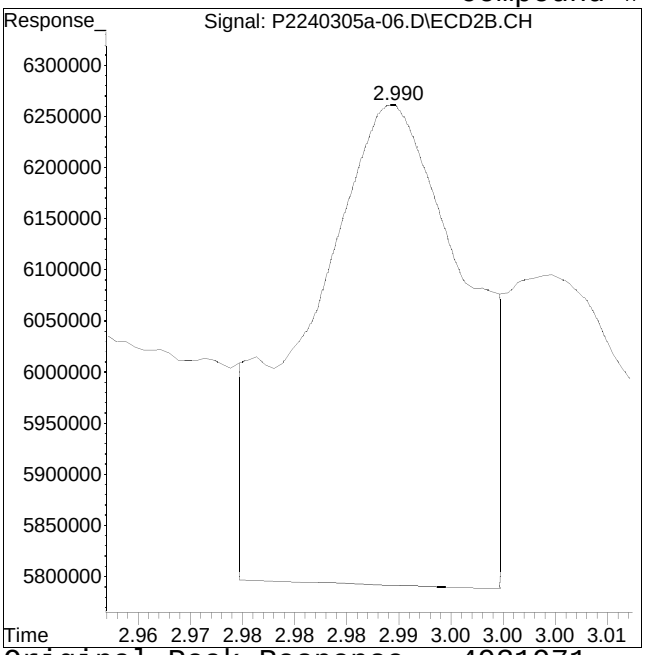


Original Peak Response = 3126521 Manual Peak Response = 2031126 M4
M4 = Poor automated baseline construction.

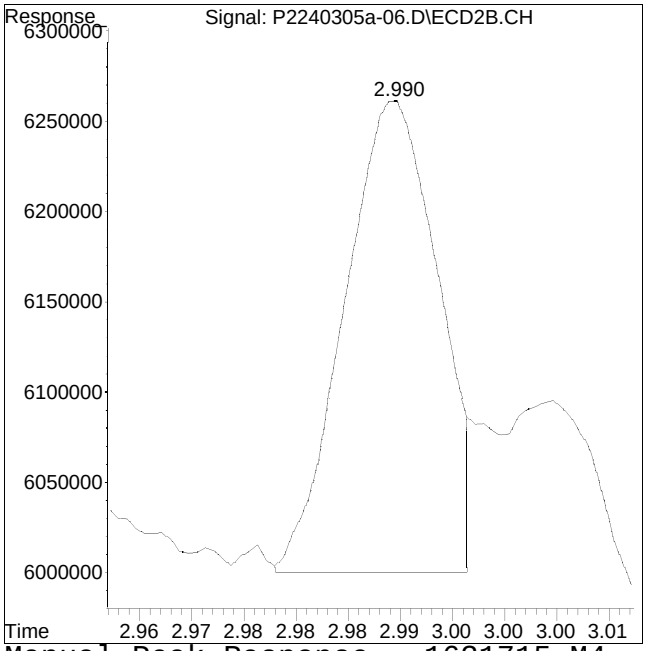
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240305a\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240305a-06.D Operator : pest2:meo
Date Inj'd : 3/5/2024 7:16 am Instrument : Pest 2
Sample : WG1892017-1,42,, Quant Date : 3/5/2024 8:45 am

Compound #71: 1254-3 #2



Original Peak Response = 4931971



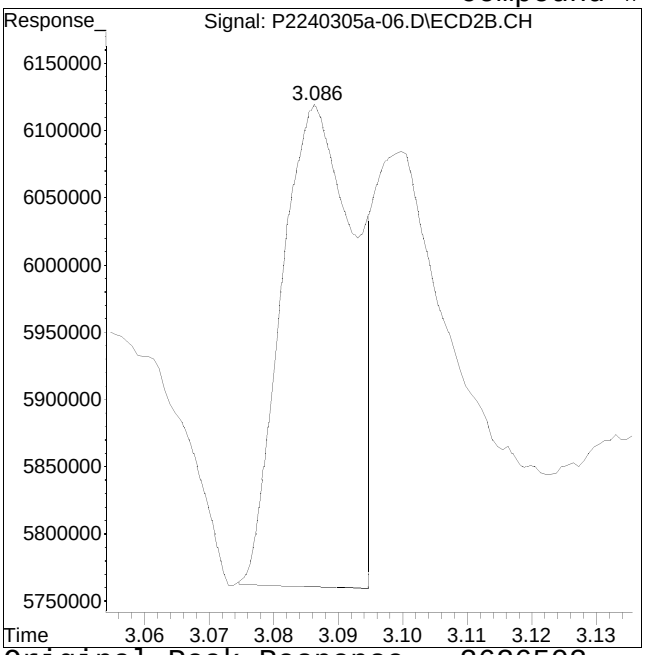
Manual Peak Response = 1631715 M4

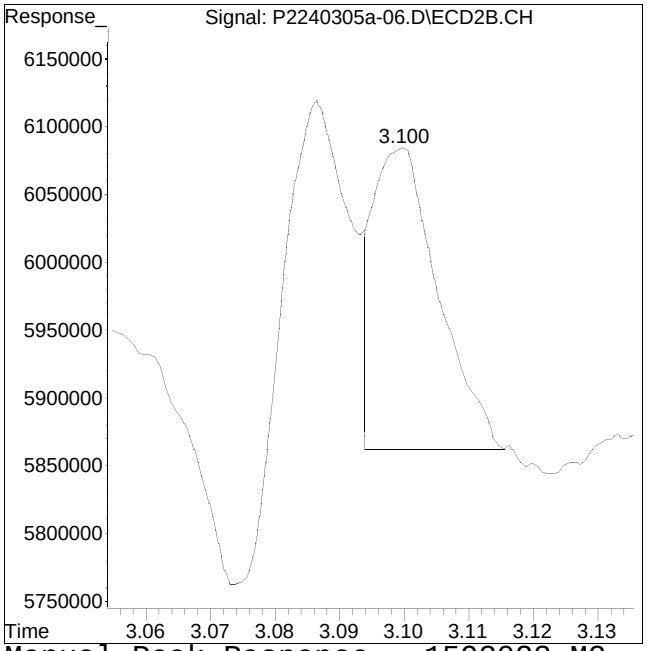
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240305a\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240305a-06.D Operator : pest2:meo
Date Inj'd : 3/5/2024 7:16 am Instrument : Pest 2
Sample : WG1892017-1,42,, Quant Date : 3/5/2024 8:45 am

Compound #72: 1254-4 #2





Original Peak Response = 2626503 Manual Peak Response = 1593023 M2
M2 = Peak not found by automatic integration algorithm.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240305a\
Data File : P2240305a-07.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 05 Mar 2024 7:25 am
Operator : pest2:meo
Sample : WG1892017-2,42,,
Misc : wg1892200,WG1892017,ical20902
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Mar 05 08:48:01 2024
Quant Method : I:\PCB\Pest2\2024\240305A\P2_pcb_02_29_24_LVI_ugL_ICAL20902.m
Quant Title : pcb
QLast Update : Thu Feb 29 16:00:47 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240305a\P2240305a-02.D
Sub List : 1660 - 1660

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards						
1) i 1660_1br2nb	1.165	1.232	235.0E6	276.0E6	25.000	25.000
Standard Area 1 : #1 = 228178279				Recovery =	102.98%	
Standard Area 1 : #2 = 242790109				Recovery =	113.68%	
System Monitoring Compounds						
2) s 2,4,5,6-Tetr	1.451	1.608	172.0E6	185.1E6	13.968	13.622
Spiked Amount 20.000	Range 30 - 150		Recovery =	69.84%	68.11%	
3) s Decachlorobi	4.027	4.549	230.2E6	124.5E6	25.809M4	17.004
Spiked Amount 20.000	Range 30 - 150		Recovery =	129.05%	85.02%	
Target Compounds						
4) l1 1016-1	1.591	1.812	43361163	50905664	203.471	215.813
5) l1 1016-2	1.734	1.984	95115756	107.8E6	237.008	207.662
6) l1 1016-3	1.924	2.185	191.5E6	210.8E6	198.566	202.318
7) l1 1016-4	1.979	2.246	85802689	81072437	206.699	194.318
8) l1 1016-5	2.149	2.458	89395323	67964874	209.672	212.472
Sum 1016-1			505.2E6	518.5E6	1055.417	1032.583
Average 1016-1					211.083	206.517
9) l2 1260-1	2.694	3.069	117.4E6	124.9E6	186.771	224.260
10) l2 1260-2	2.824	3.171	178.6E6	136.5E6	190.077	197.973
11) l2 1260-3	3.140	3.565	106.7E6	117.0E6	181.441	211.745
12) l2 1260-4	3.295	3.694	240.1E6	226.9E6	196.511	199.523
13) l2 1260-5	3.443	3.897	180.5E6	159.4E6	200.544M1	203.312
Sum 1260-1			823.2E6	764.7E6	955.345	1036.813
Average 1260-1					191.069	207.363
Sum 1221-2			0	0	N.D.	N.D.
Average 1221-2					0.000	0.000
Sum 1254-1			0	0	N.D.	N.D.
Average 1254-1					0.000	0.000
Sum 1242-1			0	0	N.D.	N.D.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240305a\
Data File : P2240305a-07.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 05 Mar 2024 7:25 am
Operator : pest2:meo
Sample : WG1892017-2,42,,
Misc : wg1892200,WG1892017,ical20902
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Mar 05 08:48:01 2024
Quant Method : I:\PCB\Pest2\2024\240305A\P2_pcb_02_29_24_LVI_ugL_ICAL20902.m
Quant Title : pcb
QLast Update : Thu Feb 29 16:00:47 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240305a\P2240305a-02.D
Sub List : 1660 - 1660

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Average 1242-1					0.000	0.000
Sum 1268-1			0	0	N.D.	N.D.
Average 1268-1					0.000	0.000
Sum 1248-1			0	0	N.D.	N.D.
Average 1248-1					0.000	0.000
Sum 1232-1			0	0	N.D.	N.D.
Average 1232-1					0.000	0.000
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument						
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000

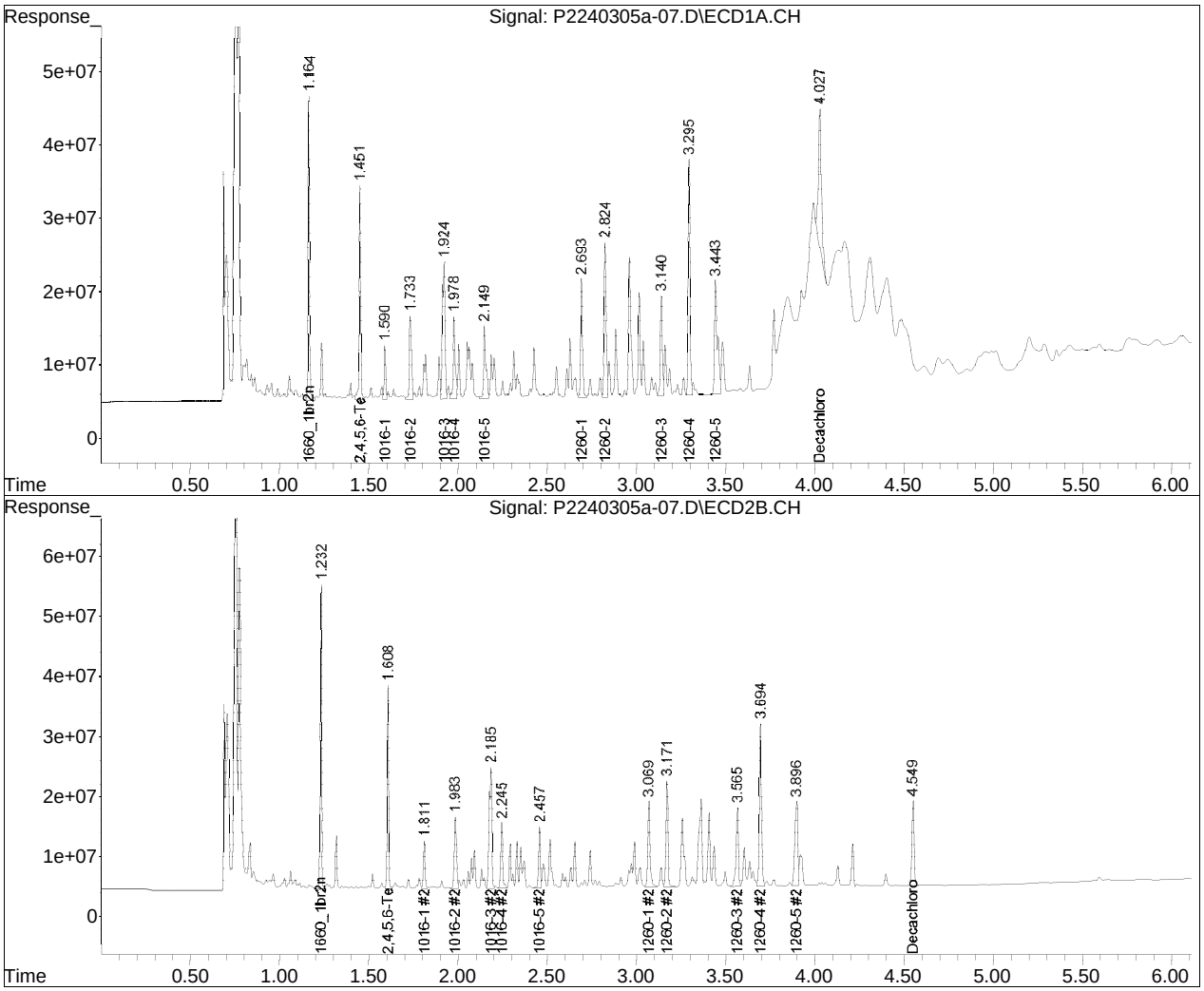
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : 1660 - 1660Pest2\2024\240305a\P2240305a-02.D••

Data Path : I:\PCB\Pest2\2024\240305a\
Data File : P2240305a-07.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 05 Mar 2024 7:25 am
Operator : pest2:meo
Sample : WG1892017-2,42,,
Misc : wg1892200,WG1892017,ical20902
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Mar 05 08:48:01 2024
Quant Method : I:\PCB\Pest2\2024\240305A\P2_pcb_02_29_24_LVI_ugL_ICAL20902.m
Quant Title : pcb
QLast Update : Thu Feb 29 16:00:47 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

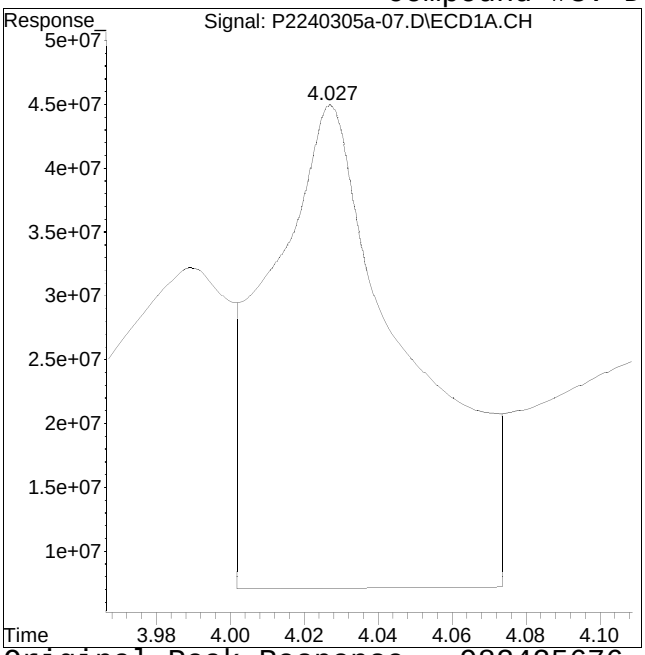
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

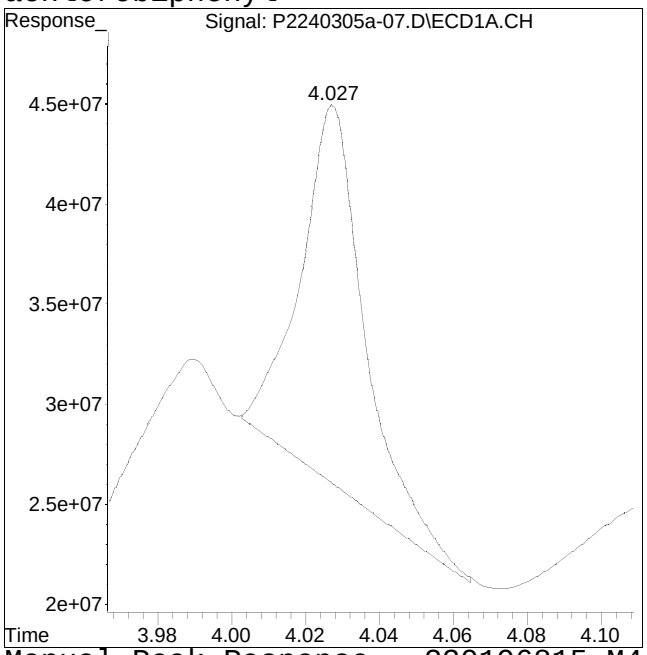


Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240305a\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240305a-07.D Operator : pest2:meo
Date Inj'd : 3/5/2024 7:25 am Instrument : Pest 2
Sample : WG1892017-2,42,, Quant Date : 3/5/2024 8:45 am

Compound #3: Decachlorobiphenyl



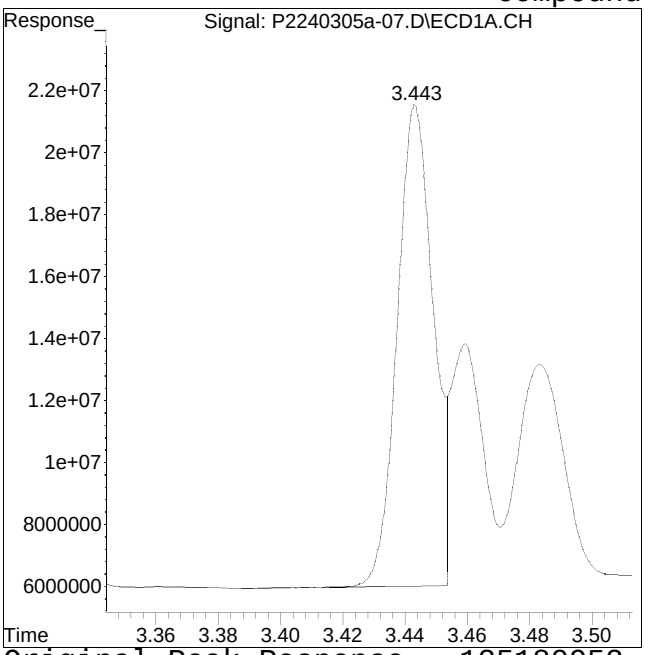


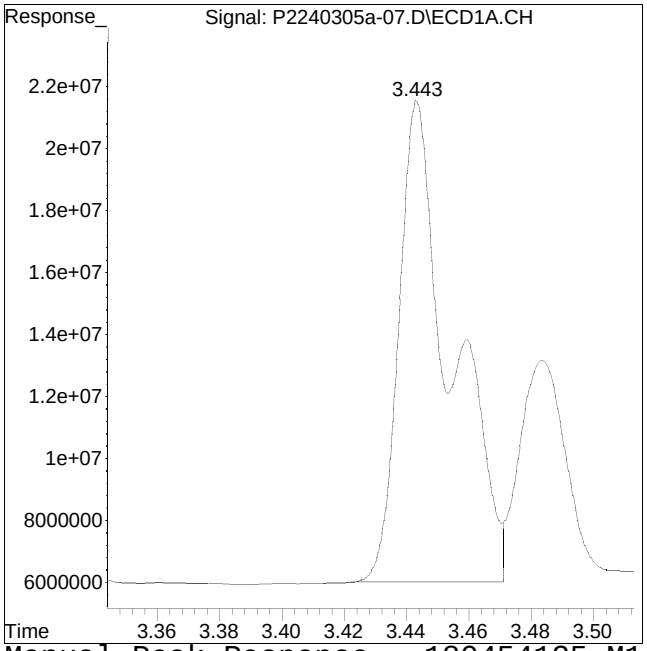
Original Peak Response = 982425676 Manual Peak Response = 230196815 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240305a\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240305a-07.D Operator : pest2:meo
Date Inj'd : 3/5/2024 7:25 am Instrument : Pest 2
Sample : WG1892017-2,42,, Quant Date : 3/5/2024 8:45 am

Compound #13: 1260-5





Original Peak Response = 125180952 Manual Peak Response = 180454135 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240305a\
Data File : P2240305a-08.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 05 Mar 2024 7:35 am
Operator : pest2:meo
Sample : WG1892017-3,42,,
Misc : wg1892200,WG1892017,ical20902
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Mar 05 08:48:38 2024
Quant Method : I:\PCB\Pest2\2024\240305A\P2_pcb_02_29_24_LVI_ugL_ICAL20902.m
Quant Title : pcb
QLast Update : Thu Feb 29 16:00:47 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240305a\P2240305a-02.D
Sub List : 1660 - 1660

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards						
1) i 1660_1br2nb	1.165	1.233	223.0E6	255.8E6	25.000	25.000
Standard Area 1 : #1 = 228178279				Recovery =	97.75%	
Standard Area 1 : #2 = 242790109				Recovery =	105.36%	
System Monitoring Compounds						
2) s 2,4,5,6-Tetr	1.451	1.609	190.3E6	198.0E6	16.280	15.720
Spiked Amount 20.000	Range 30 - 150			Recovery =	81.40%	78.60%
3) s Decachlorobi	4.024	4.546	150.2E6	129.3E6	17.738M4	19.063
Spiked Amount 20.000	Range 30 - 150			Recovery =	88.69%	95.31%
Target Compounds						
4) l1 1016-1	1.590	1.812	40906347	52013469	202.227M4	237.923
5) l1 1016-2	1.732	1.983	95234411	113.2E6	250.006M4	235.377
6) l1 1016-3	1.922	2.185	198.0E6	222.4E6	216.282M4	230.290
7) l1 1016-4	1.976	2.245	90357916	85993574	229.324M4	222.391
8) l1 1016-5	2.147	2.457	88172193	71946951	217.872M4	242.684
Sum 1016-1			512.7E6	545.6E6	1115.711	1168.664
Average 1016-1					223.142	233.733
9) l2 1260-1	2.691	3.068	134.3E6	130.8E6	225.104	253.407
10) l2 1260-2	2.821	3.170	188.1E6	143.1E6	210.842M4	223.958
11) l2 1260-3	3.137	3.563	122.1E6	121.7E6	218.794	237.710
12) l2 1260-4	3.292	3.693	254.4E6	233.8E6	219.400M4	221.777
13) l2 1260-5	3.440	3.895	200.6E6	177.5E6	234.901M4	244.278
Sum 1260-1			899.5E6	806.9E6	1109.042	1181.131
Average 1260-1					221.808	236.226
Sum 1221-2			0	0	N.D.	N.D.
Average 1221-2					0.000	0.000
Sum 1254-1			0	0	N.D.	N.D.
Average 1254-1					0.000	0.000
Sum 1242-1			0	0	N.D.	N.D.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240305a\
Data File : P2240305a-08.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 05 Mar 2024 7:35 am
Operator : pest2:meo
Sample : WG1892017-3,42,,
Misc : wg1892200,WG1892017,ical20902
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Mar 05 08:48:38 2024
Quant Method : I:\PCB\Pest2\2024\240305A\P2_pcb_02_29_24_LVI_ugL_ICAL20902.m
Quant Title : pcb
QLast Update : Thu Feb 29 16:00:47 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240305a\P2240305a-02.D
Sub List : 1660 - 1660

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Average 1242-1					0.000	0.000
Sum 1268-1			0	0	N.D.	N.D.
Average 1268-1					0.000	0.000
Sum 1248-1			0	0	N.D.	N.D.
Average 1248-1					0.000	0.000
Sum 1232-1			0	0	N.D.	N.D.
Average 1232-1					0.000	0.000
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument						
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000

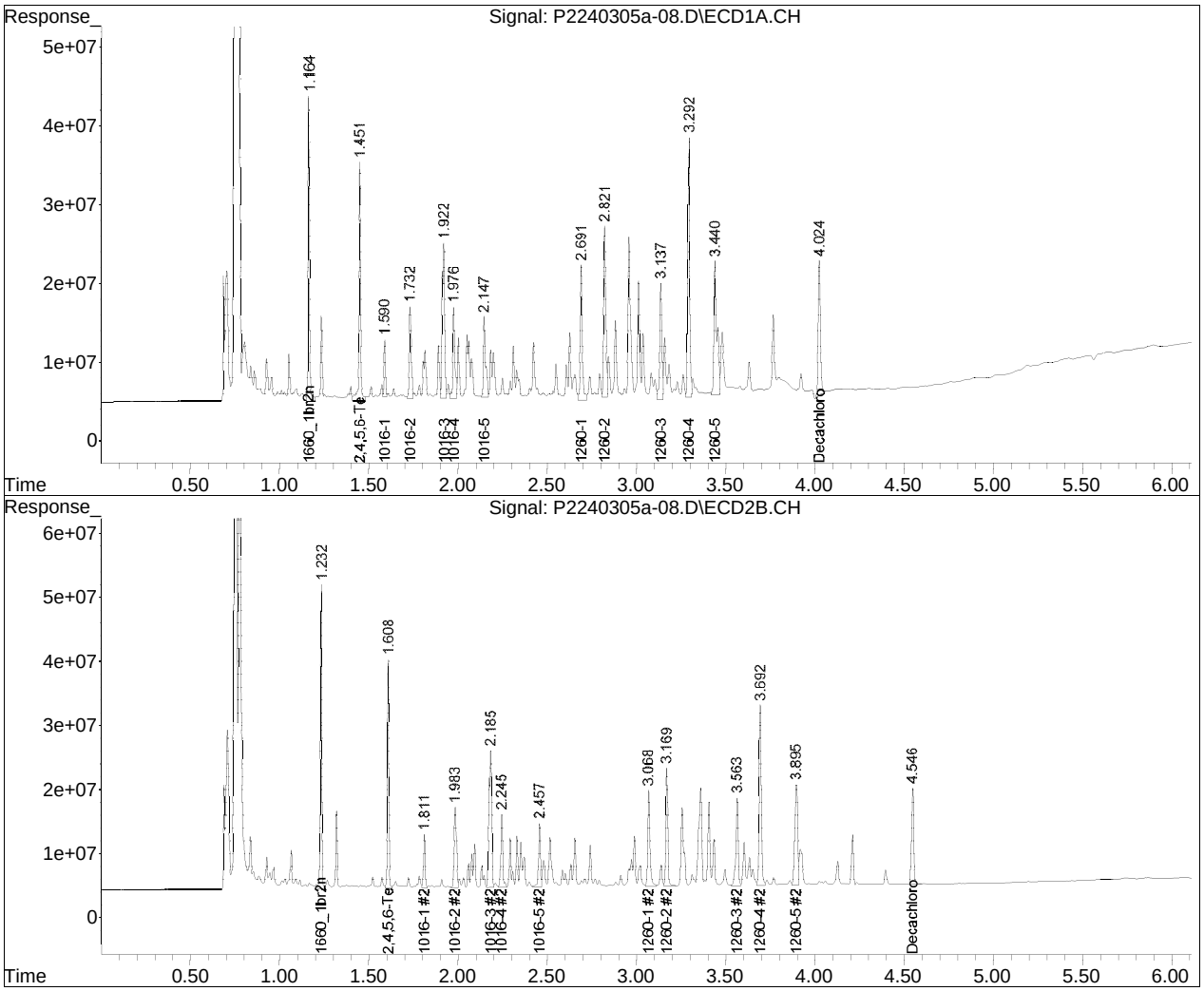
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : 1660 - 1660Pest2\2024\240305a\P2240305a-02.D••

Data Path : I:\PCB\Pest2\2024\240305a\
Data File : P2240305a-08.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 05 Mar 2024 7:35 am
Operator : pest2:meo
Sample : WG1892017-3,42,,
Misc : wg1892200,WG1892017,ical20902
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Mar 05 08:48:38 2024
Quant Method : I:\PCB\Pest2\2024\240305A\P2_pcb_02_29_24_LVI_ugL_ICAL20902.m
Quant Title : pcb
QLast Update : Thu Feb 29 16:00:47 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

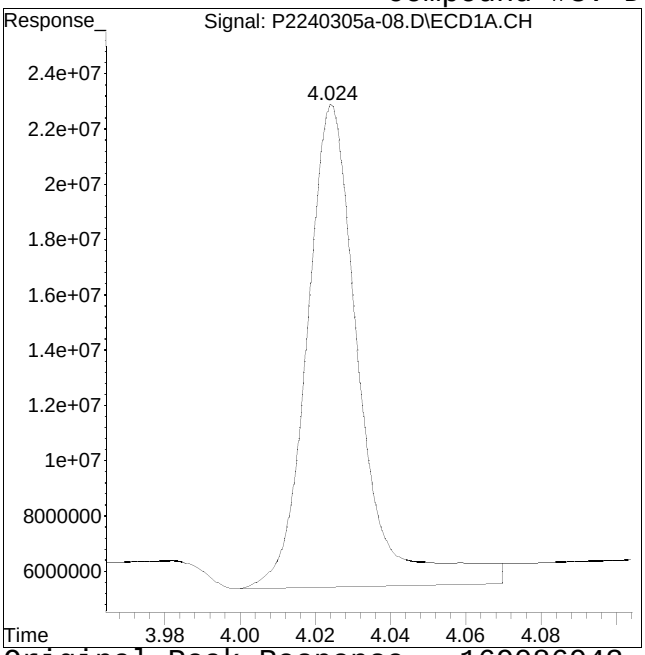
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



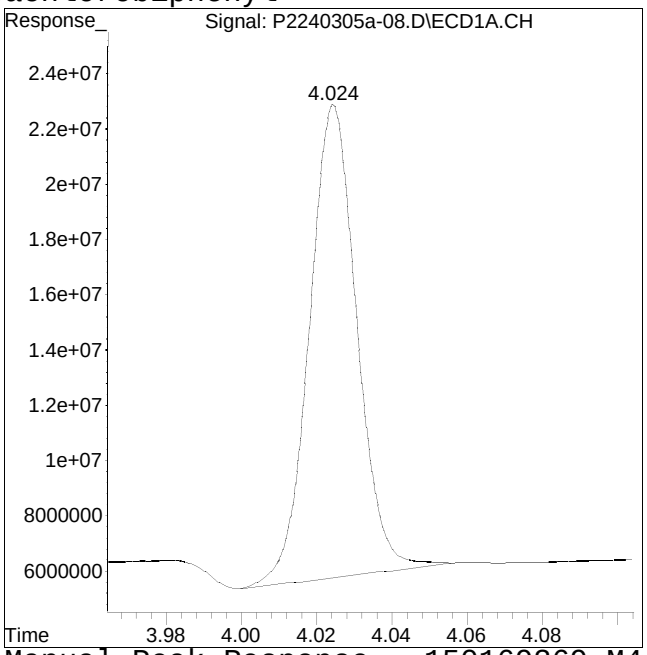
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240305a\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240305a-08.D Operator : pest2:meo
Date Inj'd : 3/5/2024 7:35 am Instrument : Pest 2
Sample : WG1892017-3,42,, Quant Date : 3/5/2024 8:45 am

Compound #3: Decachlorobiphenyl



Original Peak Response = 169086943



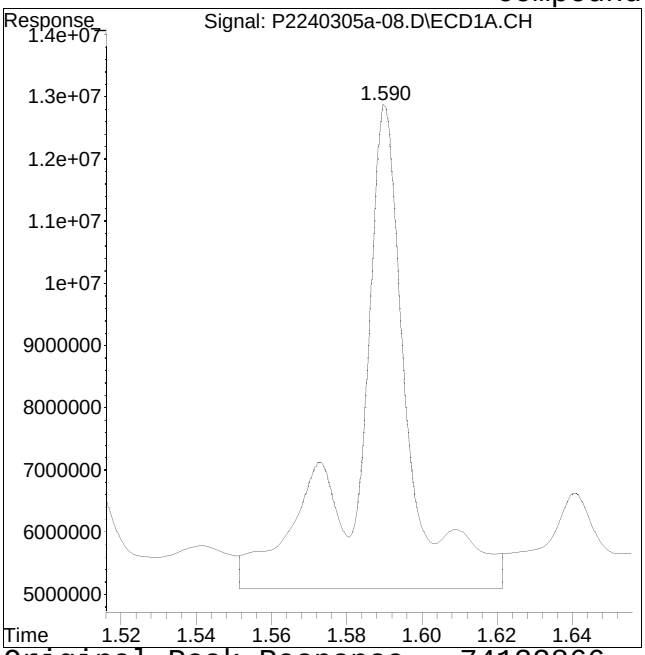
Manual Peak Response = 150169369 M4

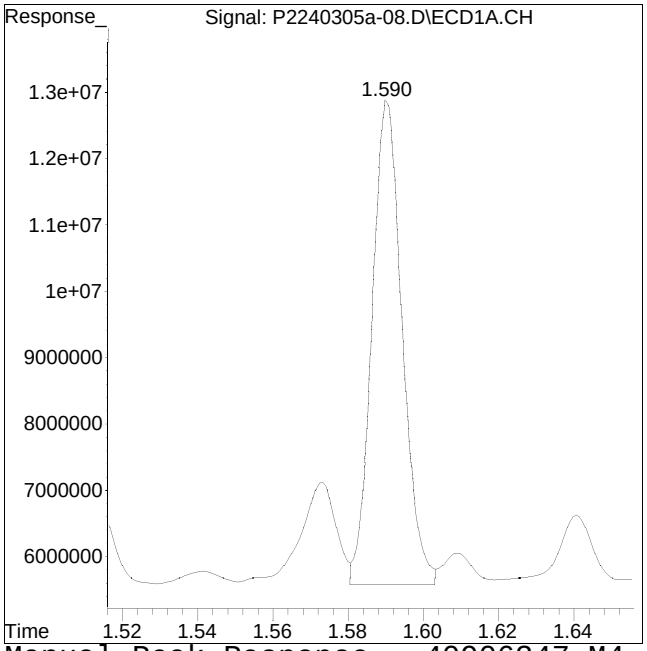
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240305a\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240305a-08.D Operator : pest2:meo
Date Inj'd : 3/5/2024 7:35 am Instrument : Pest 2
Sample : WG1892017-3,42,, Quant Date : 3/5/2024 8:45 am

Compound #4: 1016-1



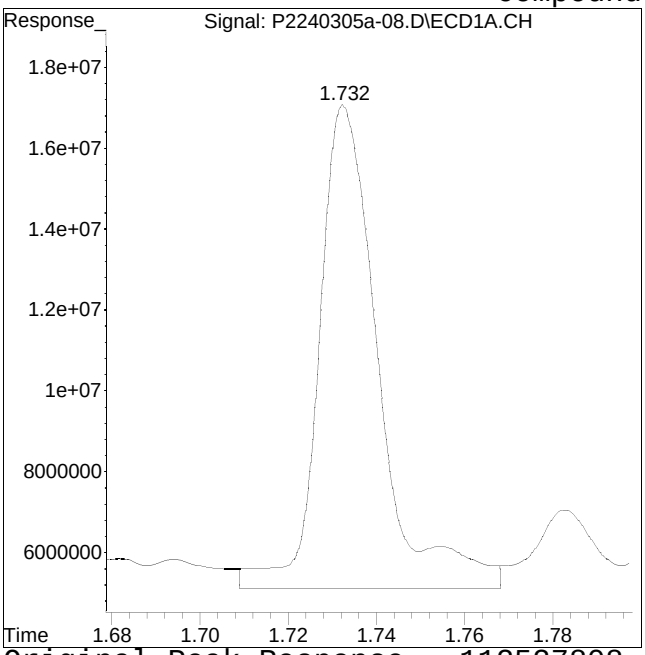


Original Peak Response = 74132866 Manual Peak Response = 40906347 M4
M4 = Poor automated baseline construction.

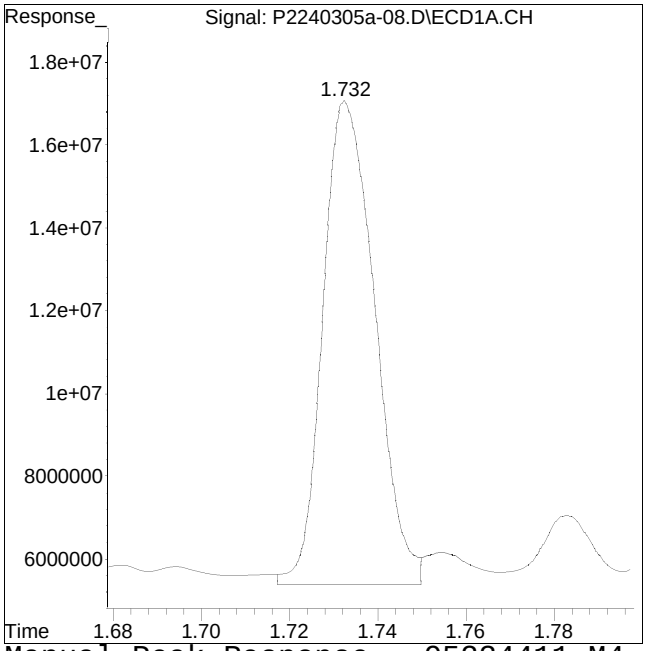
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240305a\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240305a-08.D Operator : pest2:meo
Date Inj'd : 3/5/2024 7:35 am Instrument : Pest 2
Sample : WG1892017-3,42,, Quant Date : 3/5/2024 8:45 am

Compound #5: 1016-2



Original Peak Response = 112527808

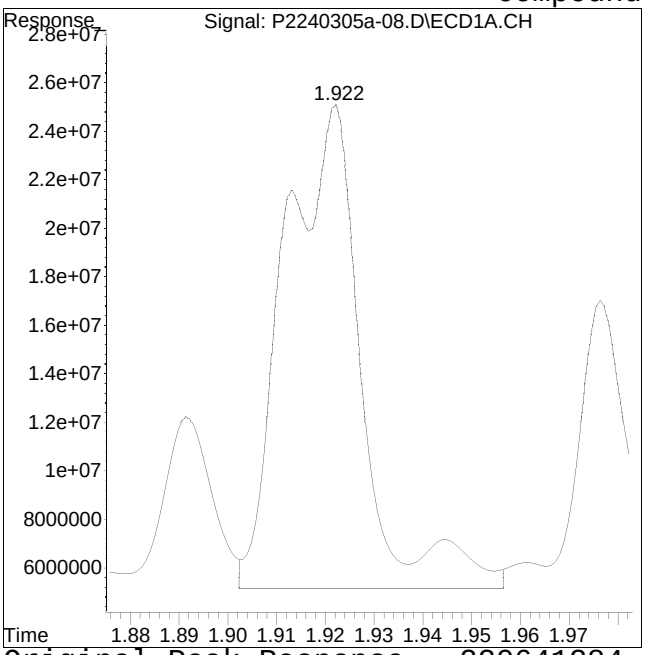


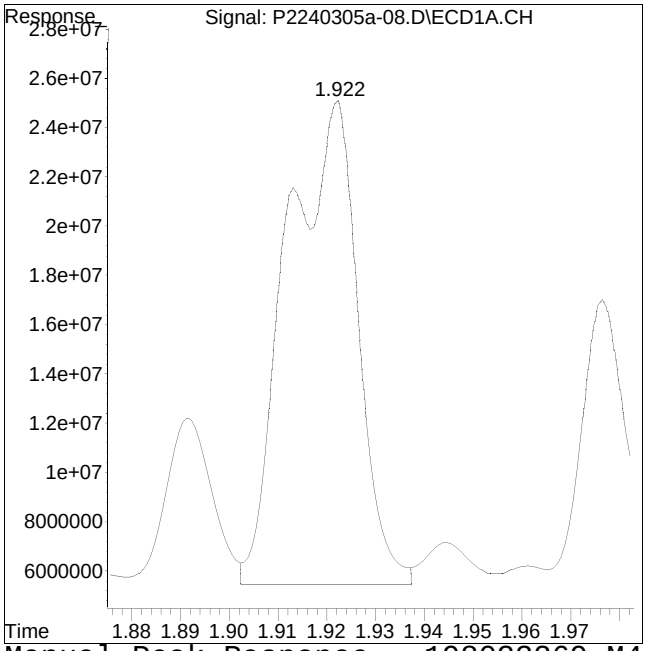
Manual Peak Response = 95234411 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240305a\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240305a-08.D Operator : pest2:meo
Date Inj'd : 3/5/2024 7:35 am Instrument : Pest 2
Sample : WG1892017-3,42,, Quant Date : 3/5/2024 8:45 am

Compound #6: 1016-3



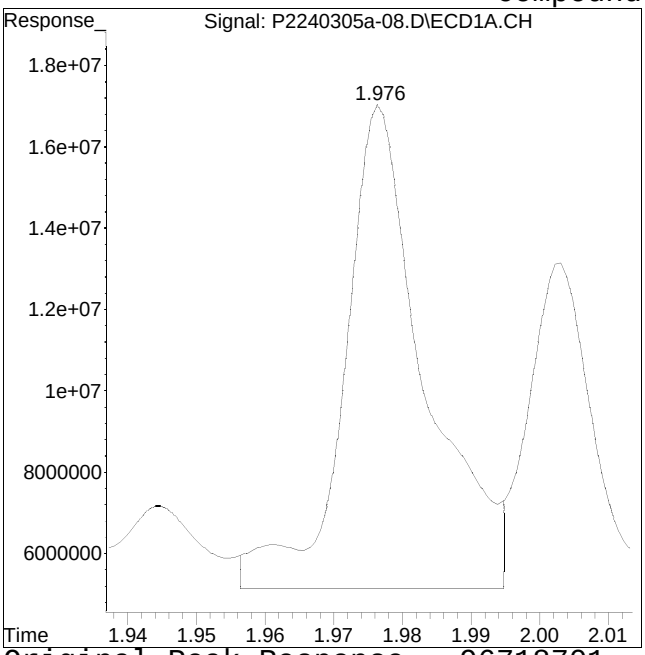


Original Peak Response = 220641284 Manual Peak Response = 198033269 M4
M4 = Poor automated baseline construction.

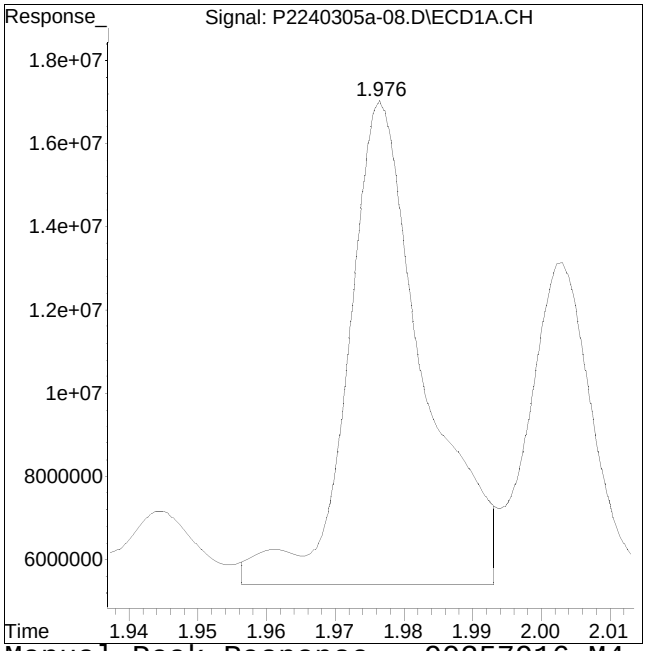
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240305a\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240305a-08.D Operator : pest2:meo
Date Inj'd : 3/5/2024 7:35 am Instrument : Pest 2
Sample : WG1892017-3,42,, Quant Date : 3/5/2024 8:45 am

Compound #7: 1016-4



Original Peak Response = 96718701



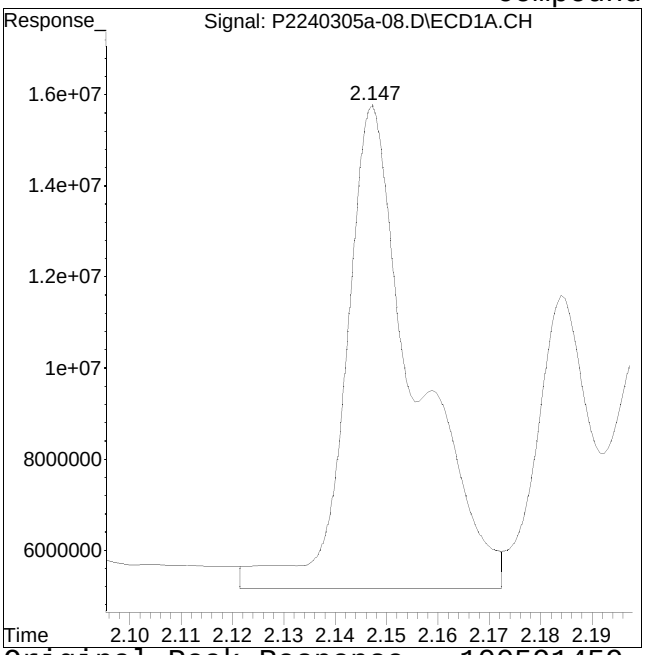
Manual Peak Response = 90357916 M4

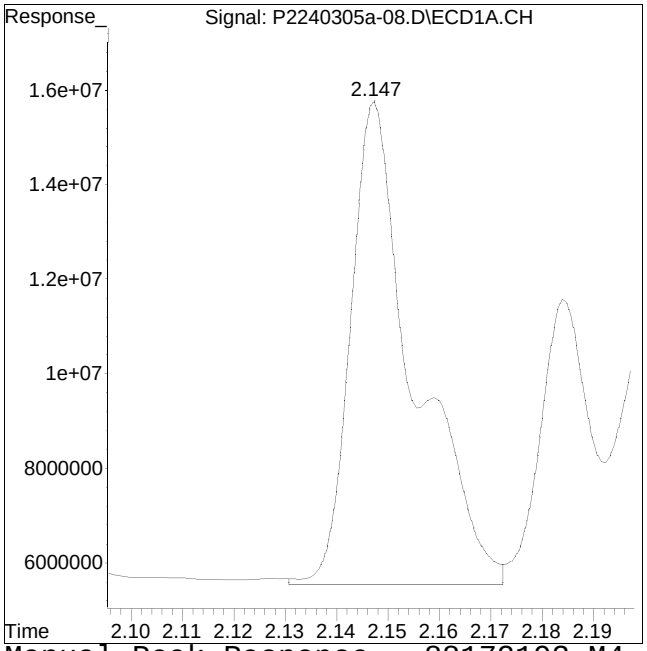
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240305a\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240305a-08.D Operator : pest2:meo
Date Inj'd : 3/5/2024 7:35 am Instrument : Pest 2
Sample : WG1892017-3,42,, Quant Date : 3/5/2024 8:45 am

Compound #8: 1016-5



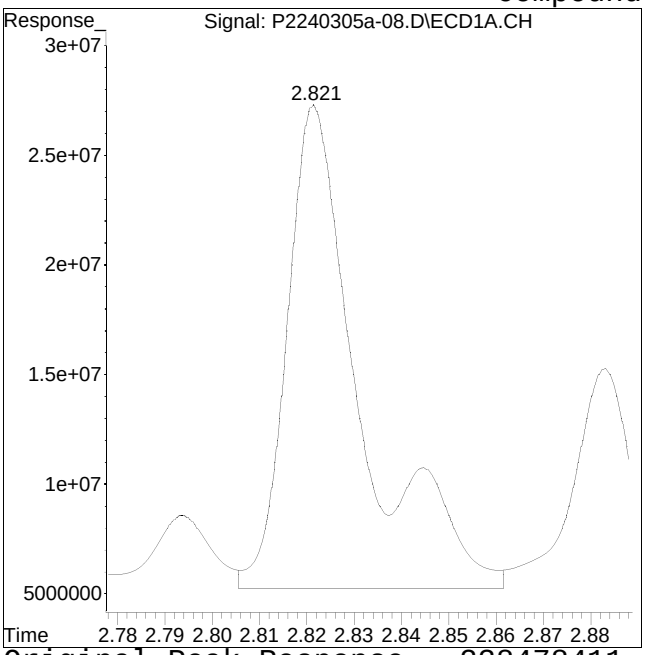


Original Peak Response = 100591459 Manual Peak Response = 88172193 M4
M4 = Poor automated baseline construction.

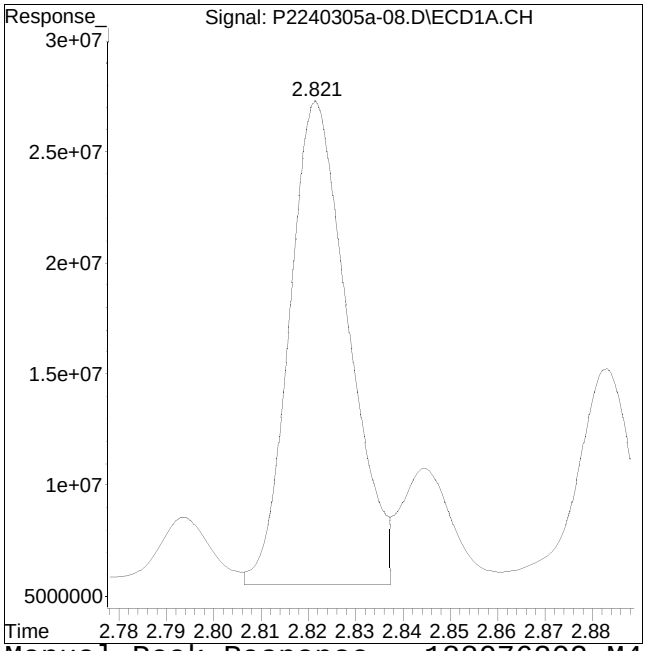
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240305a\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240305a-08.D Operator : pest2:meo
Date Inj'd : 3/5/2024 7:35 am Instrument : Pest 2
Sample : WG1892017-3,42,, Quant Date : 3/5/2024 8:45 am

Compound #10: 1260-2



Original Peak Response = 238478411



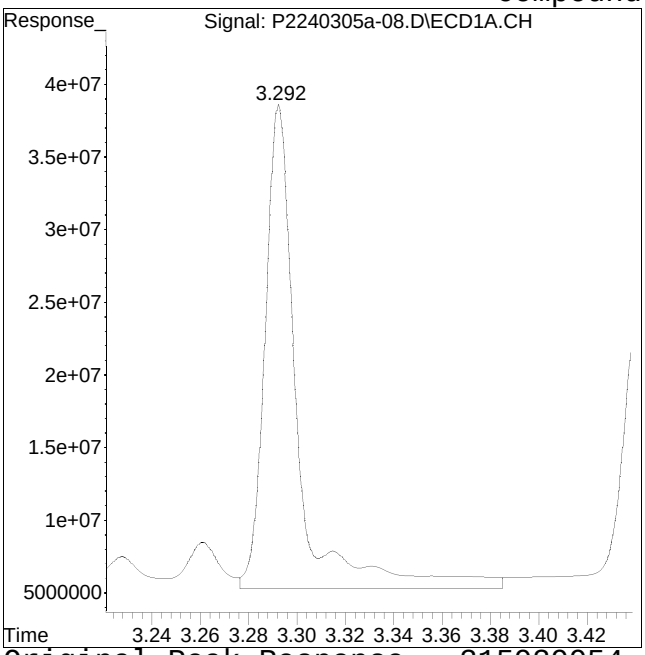
Manual Peak Response = 188076202 M4

M4 = Poor automated baseline construction.

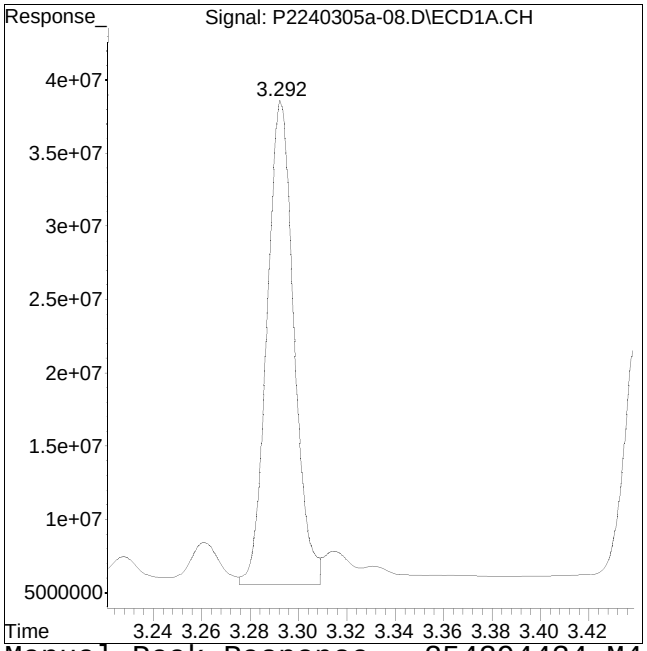
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240305a\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240305a-08.D Operator : pest2:meo
Date Inj'd : 3/5/2024 7:35 am Instrument : Pest 2
Sample : WG1892017-3,42,, Quant Date : 3/5/2024 8:45 am

Compound #12: 1260-4



Original Peak Response = 315939954



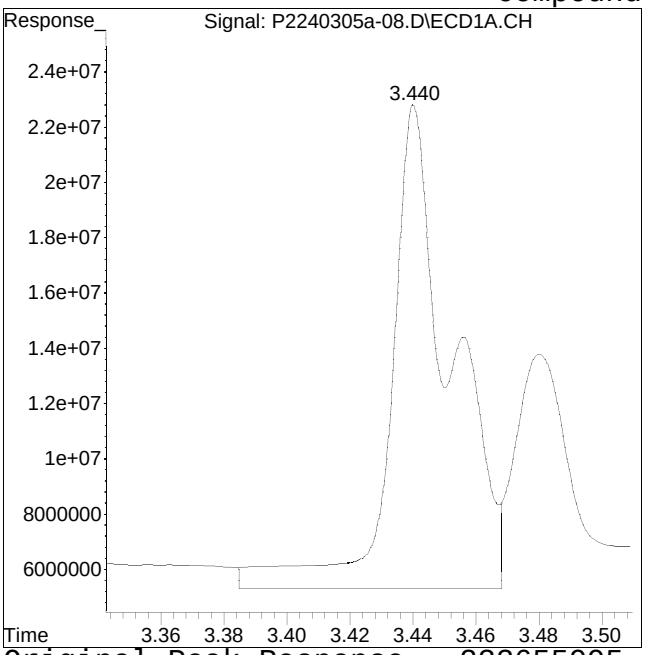
Manual Peak Response = 254394434 M4

M4 = Poor automated baseline construction.

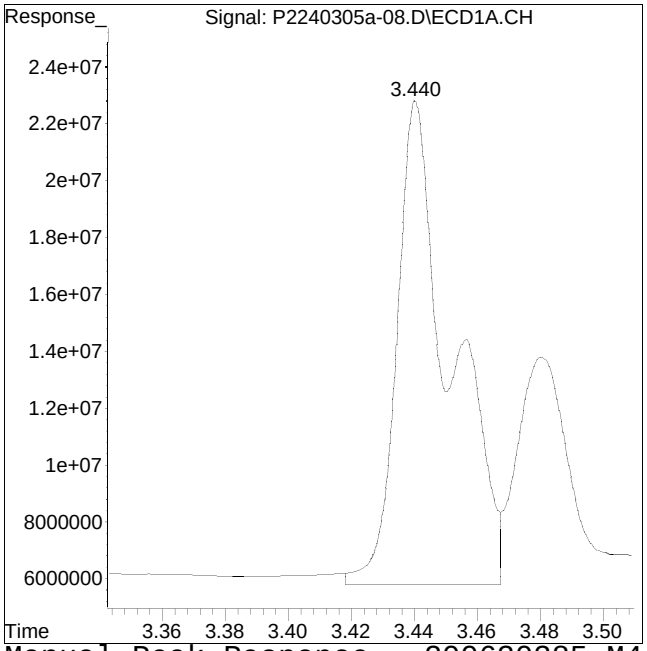
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240305a\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240305a-08.D Operator : pest2:meo
Date Inj'd : 3/5/2024 7:35 am Instrument : Pest 2
Sample : WG1892017-3,42,, Quant Date : 3/5/2024 8:45 am

Compound #13: 1260-5



Original Peak Response = 233655995



Manual Peak Response = 200630385 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240305a\
Data File : P2240305a-10.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 05 Mar 2024 7:53 am
Operator : pest2:meo
Sample : WG1892017-4,42,, ms
Misc : wg1892200,WG1892017,ical20902
ALS Vial : 10 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Mar 05 08:49:48 2024
Quant Method : I:\PCB\Pest2\2024\240305A\P2_pcb_02_29_24_LVI_ugL_ICAL20902.m
Quant Title : pcb
QLast Update : Thu Feb 29 16:00:47 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240305a\P2240305a-02.D
Sub List : 1660 - 1660

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards						
1) i 1660_1br2nb	1.165	1.234	211.0E6	247.6E6	25.000	25.000
Standard Area 1 : #1 = 228178279				Recovery =	92.46%	
Standard Area 1 : #2 = 242790109				Recovery =	101.99%	
System Monitoring Compounds						
2) s 2,4,5,6-Tetr	1.451	1.609	155.3E6	177.9E6	14.044	14.592
Spiked Amount 20.000	Range 30 - 150		Recovery =	70.22%	72.96%	
3) s Decachlorobi	4.024	4.546	137.9E6	114.8E6	17.220M4	17.481
Spiked Amount 20.000	Range 30 - 150		Recovery =	86.10%	87.41%	
Target Compounds						
4) l1 1016-1	1.591	1.812	38378057	48375732	200.573	228.608
5) l1 1016-2	1.733	1.984	85755264	105.7E6	237.990	226.909
6) l1 1016-3	1.922	2.185	176.6E6	195.3E6	203.928	208.925
7) l1 1016-4	1.977	2.246	78272790	73677406	210.008	196.846
8) l1 1016-5	2.147	2.458	77156260	61111947	201.551	212.959
Sum 1016-1			456.2E6	484.1E6	1054.051	1074.248
Average 1016-1					210.810	214.850
9) l2 1260-1	2.691	3.068	109.8E6	119.8E6	194.614	239.763M4
10) l2 1260-2	2.821	3.170	168.4E6	130.7E6	199.623	211.330M4
11) l2 1260-3	3.137	3.564	109.9E6	111.4E6	208.149	224.635M4
12) l2 1260-4	3.292	3.693	226.2E6	224.8E6	206.193M4	220.332M4
13) l2 1260-5	3.440	3.896	177.3E6	165.2E6	219.454M1	234.887
Sum 1260-1			791.6E6	751.9E6	1028.033	1130.947
Average 1260-1					205.607	226.189
Sum 1221-2			0	0	N.D.	N.D.
Average 1221-2					0.000	0.000
Sum 1254-1			0	0	N.D.	N.D.
Average 1254-1					0.000	0.000
Sum 1242-1			0	0	N.D.	N.D.
Average 1242-1					0.000	0.000

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240305a\
Data File : P2240305a-10.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 05 Mar 2024 7:53 am
Operator : pest2:meo
Sample : WG1892017-4,42,, ms
Misc : wg1892200,WG1892017,ical20902
ALS Vial : 10 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Mar 05 08:49:48 2024
Quant Method : I:\PCB\Pest2\2024\240305A\P2_pcb_02_29_24_LVI_ugL_ICAL20902.m
Quant Title : pcb
QLast Update : Thu Feb 29 16:00:47 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240305a\P2240305a-02.D
Sub List : 1660 - 1660

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Sum 1268-1			0	0	N.D.	N.D.
Average 1268-1					0.000	0.000
Sum 1248-1			0	0	N.D.	N.D.
Average 1248-1					0.000	0.000
Sum 1232-1			0	0	N.D.	N.D.
Average 1232-1					0.000	0.000
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument						
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000

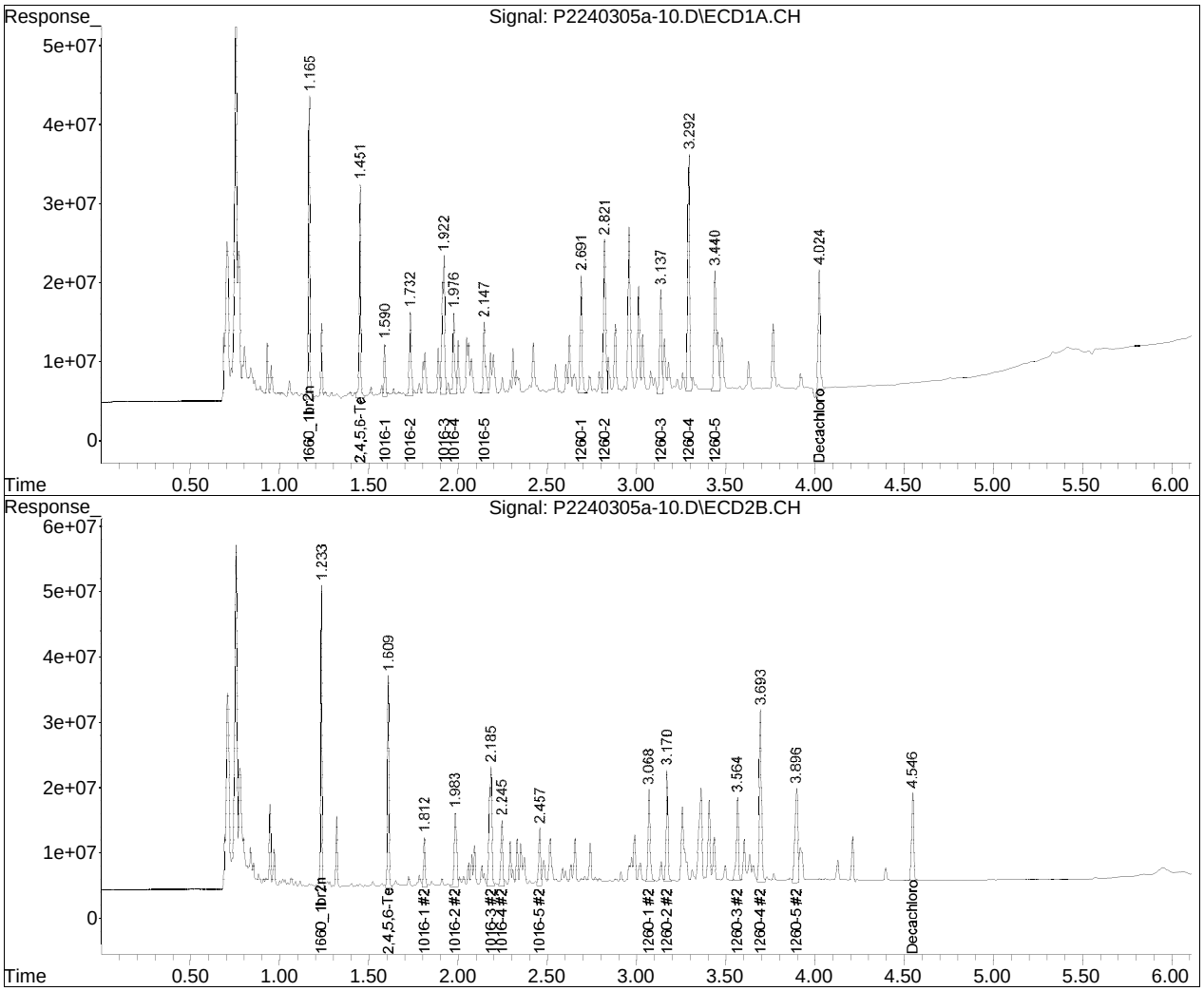
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : 1660 - 1660Pest2\2024\240305a\P2240305a-02.D••

Data Path : I:\PCB\Pest2\2024\240305a\
Data File : P2240305a-10.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 05 Mar 2024 7:53 am
Operator : pest2:meo
Sample : WG1892017-4,42,, ms
Misc : wg1892200,WG1892017,ical20902
ALS Vial : 10 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Mar 05 08:49:48 2024
Quant Method : I:\PCB\Pest2\2024\240305A\P2_pcb_02_29_24_LVI_ugL_ICAL20902.m
Quant Title : pcb
QLast Update : Thu Feb 29 16:00:47 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

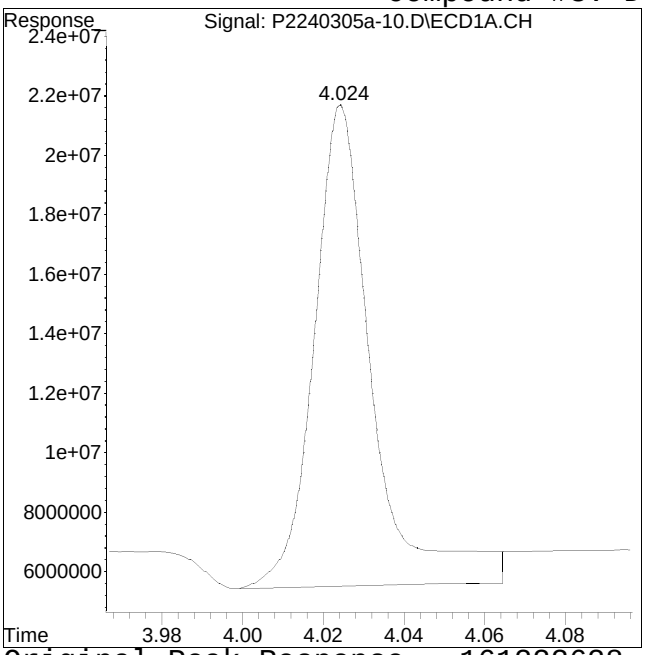
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

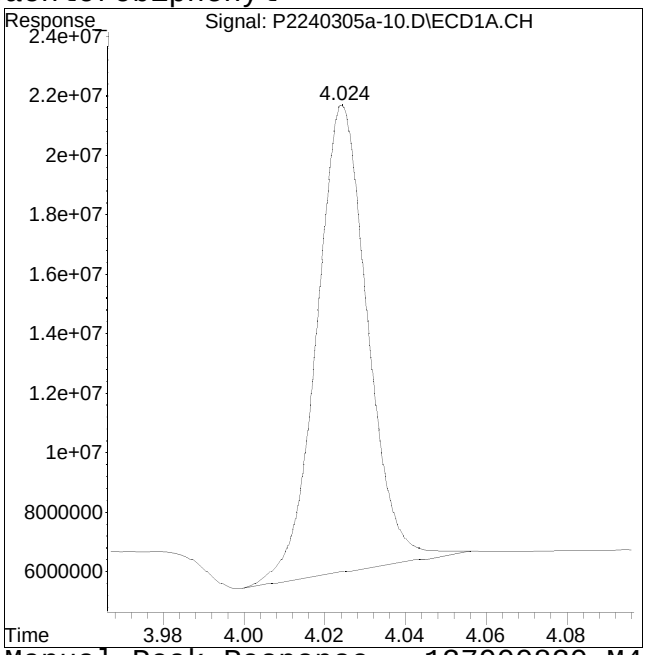


Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240305a\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240305a-10.D Operator : pest2:meo
Date Inj'd : 3/5/2024 7:53 am Instrument : Pest 2
Sample : WG1892017-4,42,, ms Quant Date : 3/5/2024 8:45 am

Compound #3: Decachlorobiphenyl



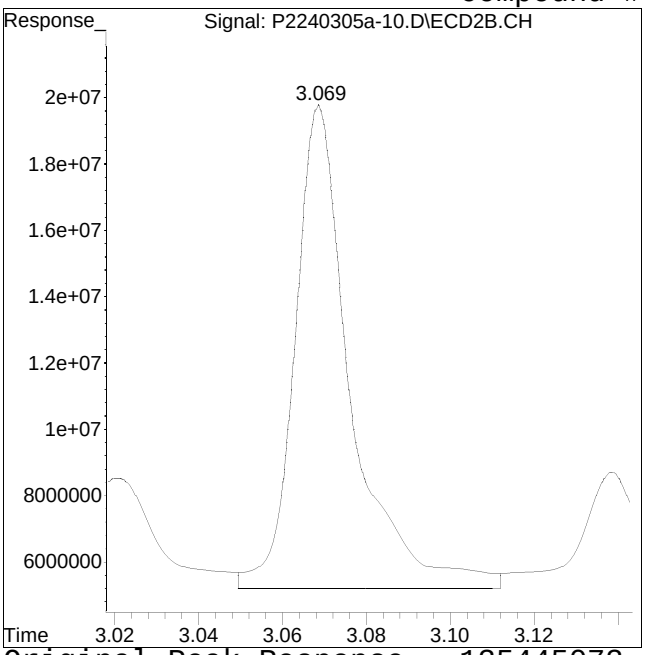


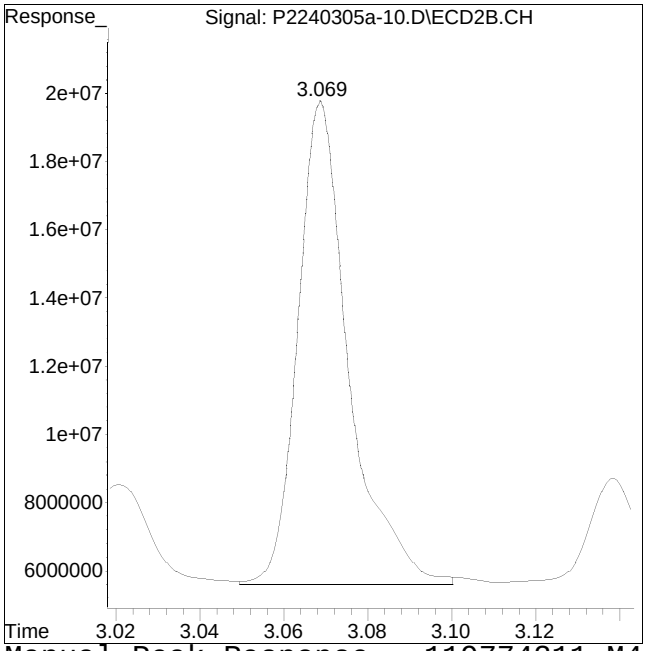
Original Peak Response = 161222628 Manual Peak Response = 137900830 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240305a\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240305a-10.D Operator : pest2:meo
Date Inj'd : 3/5/2024 7:53 am Instrument : Pest 2
Sample : WG1892017-4,42,, ms Quant Date : 3/5/2024 8:45 am

Compound #60: 1260-1 #2



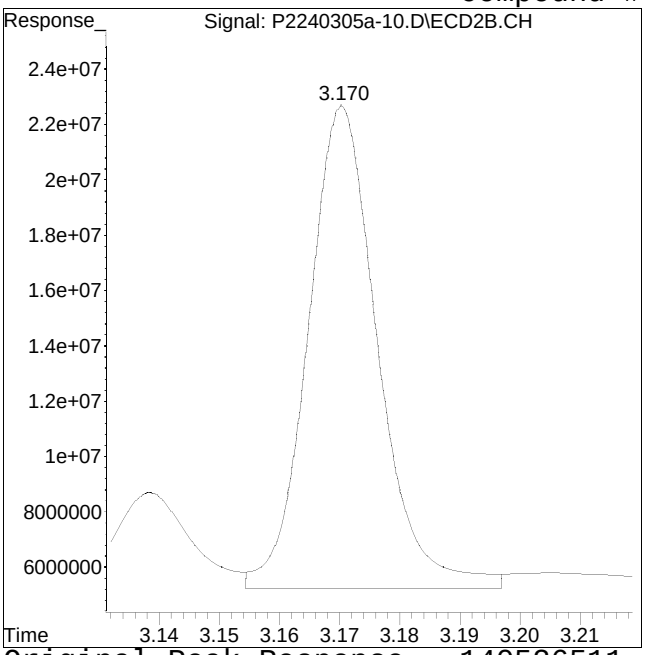


Original Peak Response = 135445073 Manual Peak Response = 119774211 M4
M4 = Poor automated baseline construction.

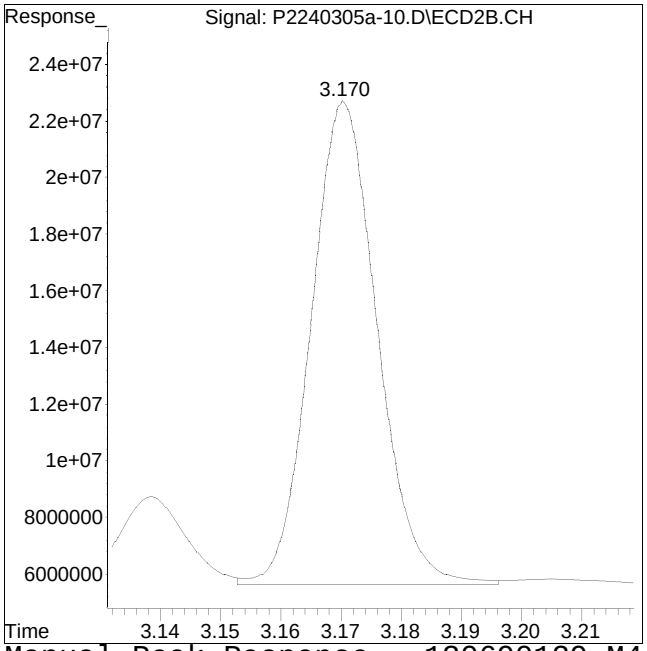
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240305a\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240305a-10.D Operator : pest2:meo
Date Inj'd : 3/5/2024 7:53 am Instrument : Pest 2
Sample : WG1892017-4,42,, ms Quant Date : 3/5/2024 8:45 am

Compound #61: 1260-2 #2



Original Peak Response = 140526511



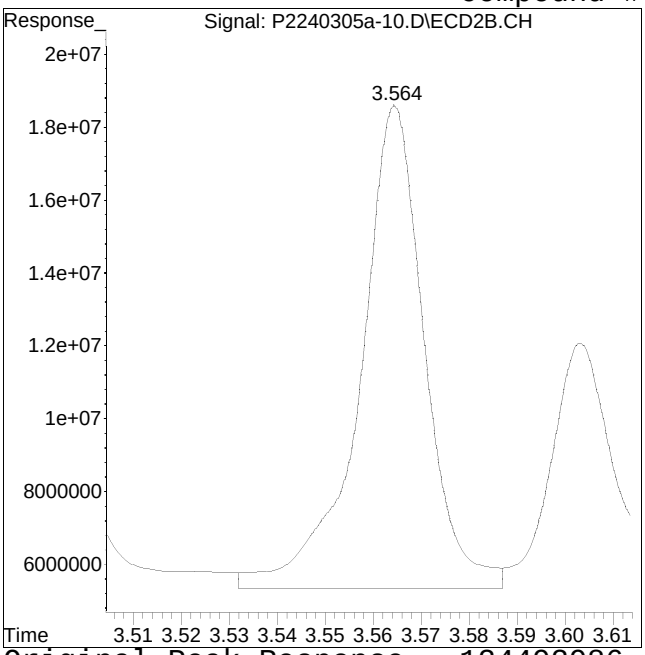
Manual Peak Response = 130690129 M4

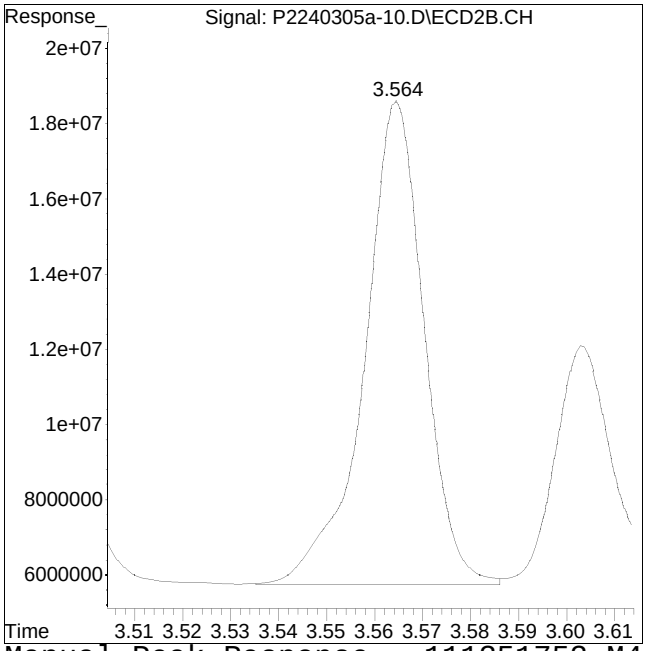
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240305a\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240305a-10.D Operator : pest2:meo
Date Inj'd : 3/5/2024 7:53 am Instrument : Pest 2
Sample : WG1892017-4,42,, ms Quant Date : 3/5/2024 8:45 am

Compound #62: 1260-3 #2



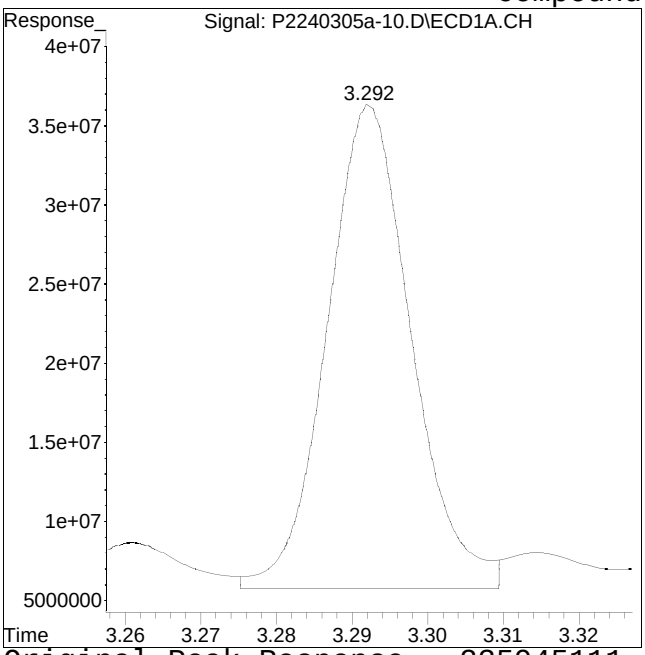


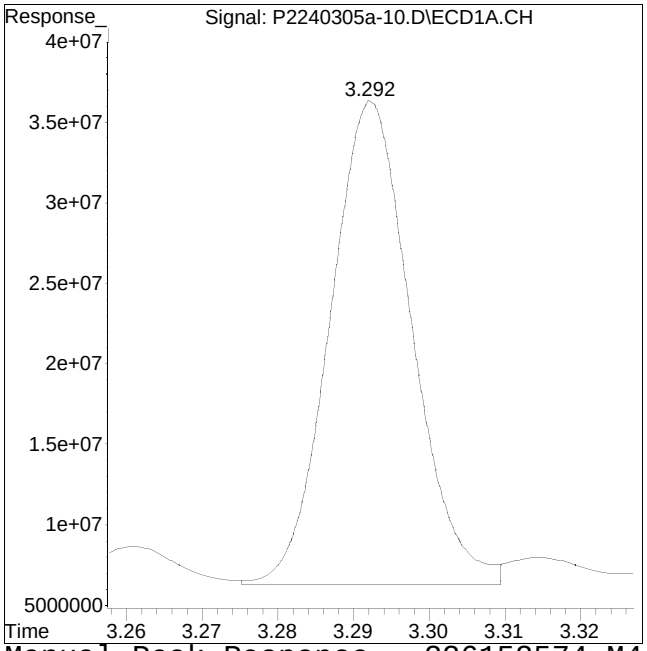
Original Peak Response = 124492986 Manual Peak Response = 111351753 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240305a\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240305a-10.D Operator : pest2:meo
Date Inj'd : 3/5/2024 7:53 am Instrument : Pest 2
Sample : WG1892017-4,42,, ms Quant Date : 3/5/2024 8:45 am

Compound #12: 1260-4



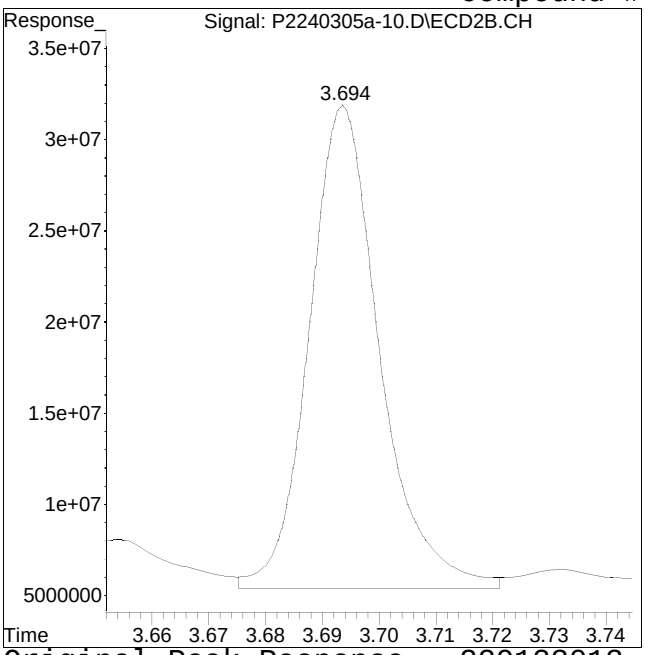


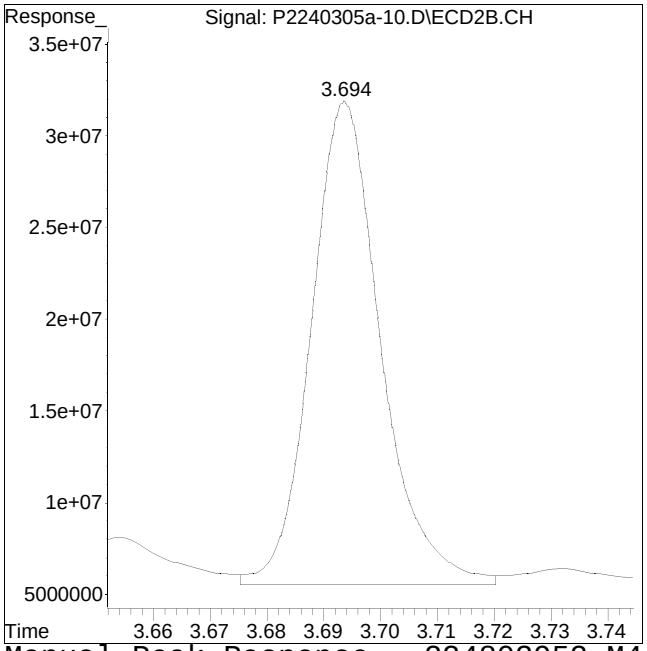
Original Peak Response = 235945111 Manual Peak Response = 226152574 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240305a\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240305a-10.D Operator : pest2:meo
Date Inj'd : 3/5/2024 7:53 am Instrument : Pest 2
Sample : WG1892017-4,42,, ms Quant Date : 3/5/2024 8:45 am

Compound #63: 1260-4 #2



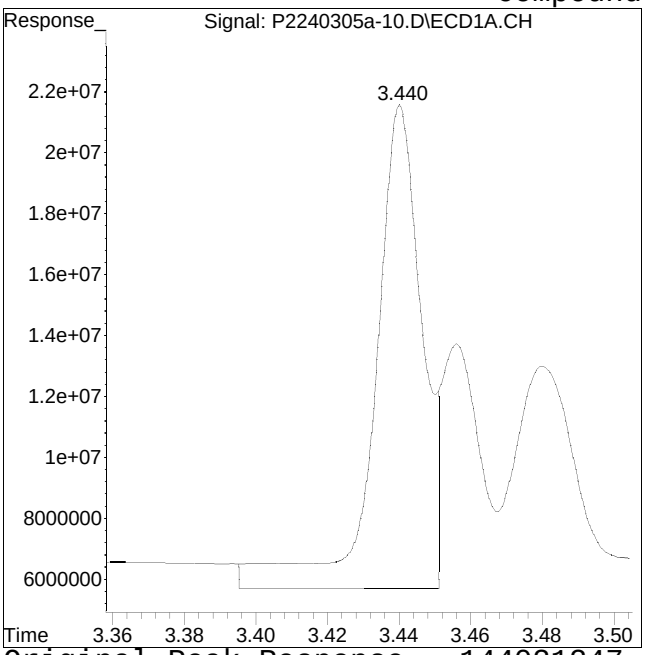


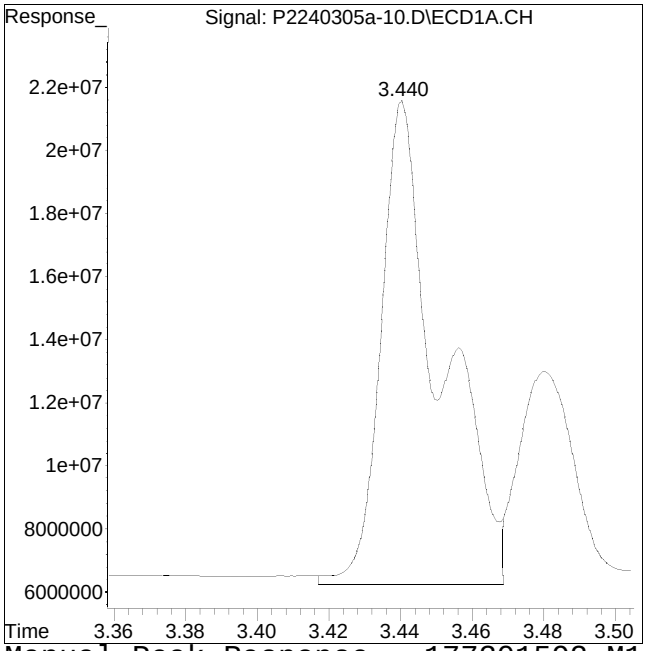
Original Peak Response = 229123013 Manual Peak Response = 224803952 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240305a\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240305a-10.D Operator : pest2:meo
Date Inj'd : 3/5/2024 7:53 am Instrument : Pest 2
Sample : WG1892017-4,42,, ms Quant Date : 3/5/2024 8:45 am

Compound #13: 1260-5





Original Peak Response = 144021247 Manual Peak Response = 177301592 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240305a\
Data File : P2240305a-11.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 05 Mar 2024 8:03 am
Operator : pest2:meo
Sample : WG1892017-5,42,, msd
Misc : wg1892200,WG1892017,ical20902
ALS Vial : 11 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Mar 05 08:50:08 2024
Quant Method : I:\PCB\Pest2\2024\240305A\P2_pcb_02_29_24_LVI_ugL_ICAL20902.m
Quant Title : pcb
QLast Update : Thu Feb 29 16:00:47 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240305a\P2240305a-02.D
Sub List : 1660 - 1660

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards						
1) i 1660_1br2nb	1.166	1.234	225.3E6	267.5E6	25.000	25.000
Standard Area 1 : #1 = 228178279				Recovery =	98.74%	
Standard Area 1 : #2 = 242790109				Recovery =	110.17%	
System Monitoring Compounds						
2) s 2,4,5,6-Tetr	1.452	1.610	170.6E6	188.8E6	14.448	14.332
Spiked Amount 20.000	Range 30 - 150		Recovery =	72.24%	71.66%	
3) s Decachlorobi	4.025	4.547	150.9E6	125.4E6	17.648M4	17.672
Spiked Amount 20.000	Range 30 - 150		Recovery =	88.24%	88.36%	
Target Compounds						
4) l1 1016-1	1.591	1.813	42498598	50489199	207.987	220.876
5) l1 1016-2	1.733	1.984	94075840	110.2E6	244.483	219.179
6) l1 1016-3	1.922	2.186	191.3E6	194.9E6	206.779	192.997
7) l1 1016-4	1.977	2.246	86710537	80208133	217.856	198.380
8) l1 1016-5	2.148	2.458	83494641	68517103	204.241	221.032
Sum 1016-1			498.0E6	504.3E6	1081.347	1052.465
Average 1016-1					216.269	210.493
9) l2 1260-1	2.692	3.069	117.1E6	134.2E6	194.410	248.766
10) l2 1260-2	2.822	3.171	177.9E6	149.7E6	197.429	224.114
11) l2 1260-3	3.138	3.565	108.6E6	123.5E6	192.611	230.582
12) l2 1260-4	3.293	3.694	242.5E6	234.3E6	207.058	212.570
13) l2 1260-5	3.441	3.896	183.4E6	169.0E6	212.553M1	222.385
Sum 1260-1			829.6E6	810.7E6	1004.062	1138.416
Average 1260-1					200.812	227.683
Sum 1221-2			0	0	N.D.	N.D.
Average 1221-2					0.000	0.000
Sum 1254-1			0	0	N.D.	N.D.
Average 1254-1					0.000	0.000
Sum 1242-1			0	0	N.D.	N.D.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240305a\
Data File : P2240305a-11.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 05 Mar 2024 8:03 am
Operator : pest2:meo
Sample : WG1892017-5,42,, msd
Misc : wg1892200,WG1892017,ical20902
ALS Vial : 11 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Mar 05 08:50:08 2024
Quant Method : I:\PCB\Pest2\2024\240305A\P2_pcb_02_29_24_LVI_ugL_ICAL20902.m
Quant Title : pcb
QLast Update : Thu Feb 29 16:00:47 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240305a\P2240305a-02.D
Sub List : 1660 - 1660

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Average 1242-1					0.000	0.000
Sum 1268-1			0	0	N.D.	N.D.
Average 1268-1					0.000	0.000
Sum 1248-1			0	0	N.D.	N.D.
Average 1248-1					0.000	0.000
Sum 1232-1			0	0	N.D.	N.D.
Average 1232-1					0.000	0.000
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument						
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000

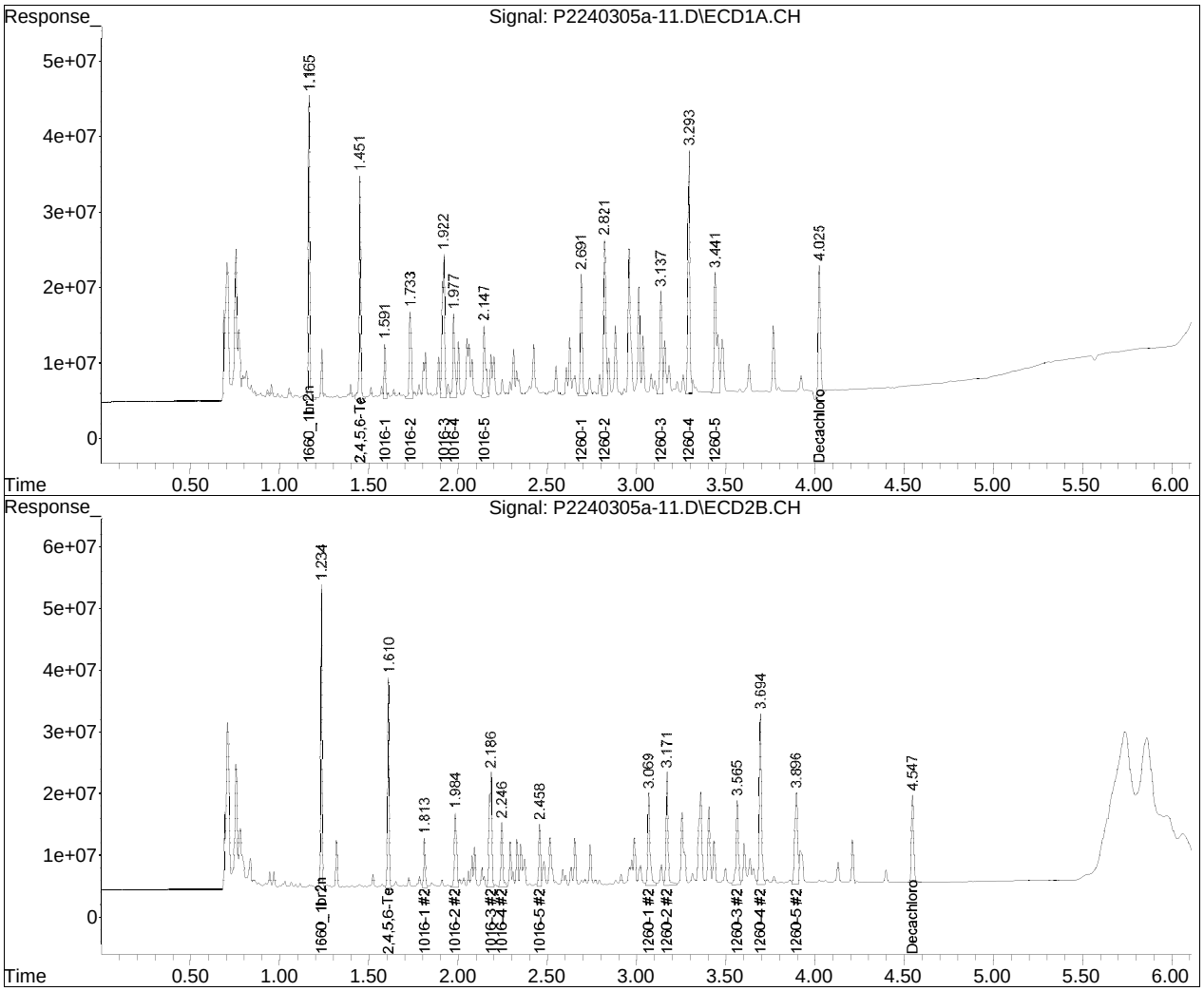
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : 1660 - 1660Pest2\2024\240305a\P2240305a-02.D••

Data Path : I:\PCB\Pest2\2024\240305a\
Data File : P2240305a-11.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 05 Mar 2024 8:03 am
Operator : pest2:meo
Sample : WG1892017-5,42,, msd
Misc : wg1892200,WG1892017,ical20902
ALS Vial : 11 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Mar 05 08:50:08 2024
Quant Method : I:\PCB\Pest2\2024\240305A\P2_pcb_02_29_24_LVI_ugL_ICAL20902.m
Quant Title : pcb
QLast Update : Thu Feb 29 16:00:47 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

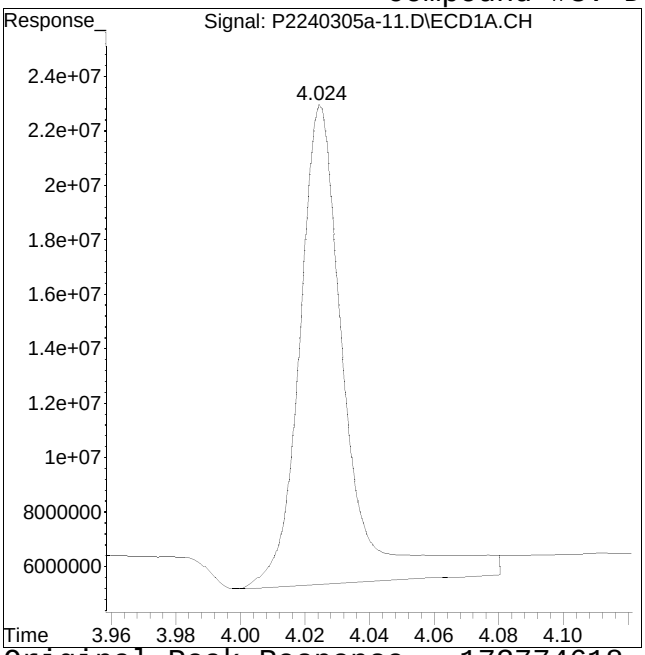
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



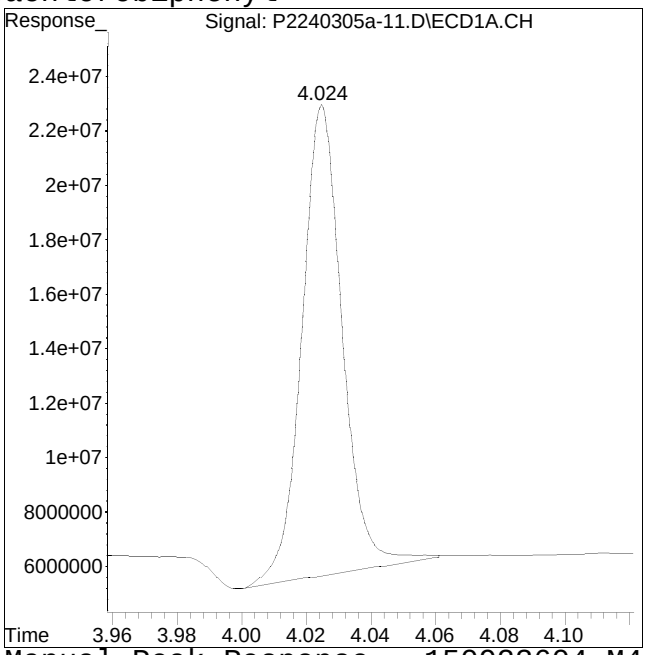
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240305a\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240305a-11.D Operator : pest2:meo
Date Inj'd : 3/5/2024 8:03 am Instrument : Pest 2
Sample : WG1892017-5,42,, msd Quant Date : 3/5/2024 8:45 am

Compound #3: Decachlorobiphenyl



Original Peak Response = 173774618



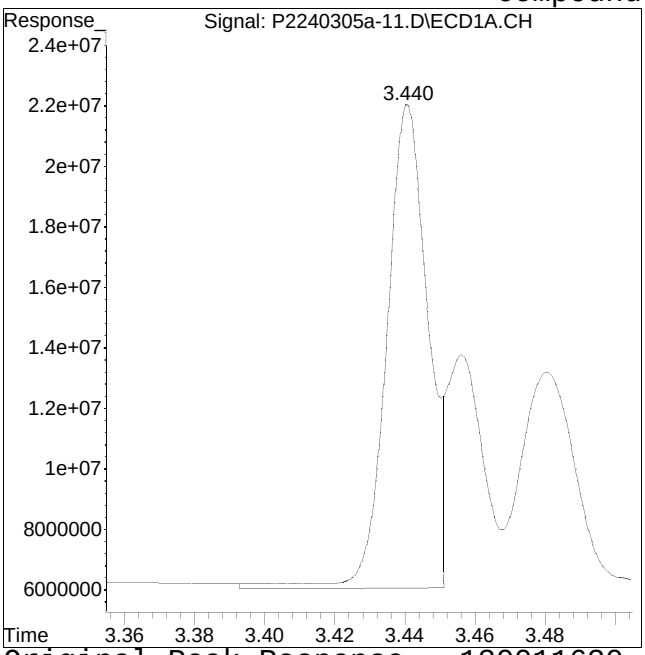
Manual Peak Response = 150923604 M4

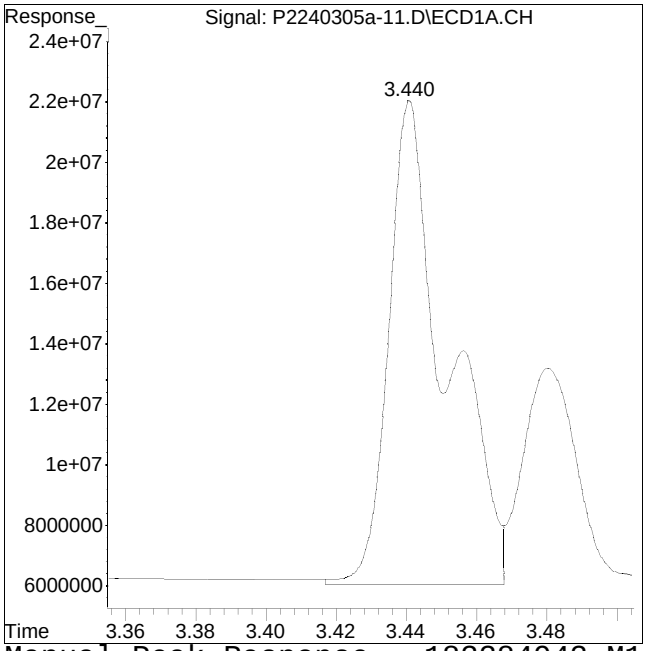
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240305a\QMethod : P2_pcb_02_29_24_LVI_ugL_
Data File : P2240305a-11.D Operator : pest2:meo
Date Inj'd : 3/5/2024 8:03 am Instrument : Pest 2
Sample : WG1892017-5,42,, msd Quant Date : 3/5/2024 8:45 am

Compound #13: 1260-5





Original Peak Response = 130011630 Manual Peak Response = 183384943 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Calculation of PCB Aroclors & Pesticides

Aqueous Concentration Formula:
Amt * DF*(Vt/Vp)*(1000/Vo)*(Ve/1000)

Where:
DF = Dilution Factor
Vt = Extract Final Volume (mL)
Vp = Aliquot Cleaned (mL)
Vo = Volume of Sample (mL)
Ve = Extraction Lab Final Volume (mL)

Soil Concentration Formula:
Amt * DF * (Vt/Vp)*(1000/Wt)*(Ve/1000)* (100/TS)

Where:
DF = Dilution Factor
Vt = Extract Final Volume (mL)
Vp = Aliquot Cleaned (mL)
Wt = Weight of Sample (g)
Ve = Extraction Lab Final Volume (mL)
TS = Total Solids

Dep.: PCB
Inst: Pest_2
Date: **02/29/24**
Run: **I**

Method
GC: LVI

Seq: ICAL20902 WG1891083
IS: pp11450

Vial	Data File	Sample	CCAL	notes	initials
1	P2240212i-01	blank			
2	P2240212i-02	+1660 ccal pp11440 lvi			
1	P2240212i-03	blank			
4	P2240212i-04	il44268,42e,,pp 11454			rmp 2/29kb 3/1
5	P2240212i-05	il43262,42e,,pp 11457			rmp 2/29kb 3/1
6	P2240212i-06	il41248,42e,,pp 11452			rmp 2/29kb 3/1
7	P2240212i-07	il42154,42e,,pp 11449			rmp 2/29kb 3/1
8	P2240212i-08	il11660,42e,,pp 11447			rmp 2/29kb 3/1
9	P2240212i-09	il21660,42e,,pp 11447			rmp 2/29kb 3/1
10	P2240212i-10	il31660,42e,,pp 11447			rmp 2/29kb 3/1
11	P2240212i-11	il41660,42e,,pp 11447			rmp 2/29kb 3/1
12	P2240212i-12	il51660,42e,,pp 11447			rmp 2/29kb 3/1
13	P2240212i-13	il61660,42e,,pp 11447			rmp 2/29kb 3/1
14	P2240212i-14	cicv4268,42,,pp 11468			rmp 2/29kb 3/1
15	P2240212i-15	cicv3262,42,,pp 11467			rmp 2/29kb 3/1
16	P2240212i-16	cicv1248,42,,pp 11461			rmp 2/29kb 3/1
17	P2240212i-17	cicv2154,42,,pp 11460			rmp 2/29kb 3/1
18	P2240212i-18	cicv1660,42,,pp 11459		V to F18 n	rmp 2/29kb 3/1

Dep.: PCB
Inst: Pest_2
Date: **03/05/24**
Run: **a**

Method
GC: LVI

Seq: wg1892200
IS: pp11450

Vial	Data File	Sample	CCAL	notes	initials
1	P2240305a-01	blank			
2	P2240305a-02	+1660 lvi ccv pp11440	20% 5:34am 200-1akm		meo3/5
3	P2240305a-03	+2154 lvi icv pp11349	15%.		
4	P2240305a-04	+1248 lvi icv pp11351	15%.		
5	P2240305a-05	+4268 lvi icv pp11350	15%.		
6	P2240305a-06	WG1892017-1,42,,			meo3/5
7	P2240305a-07	WG1892017-2,42,,			meo3/5
8	P2240305a-08	WG1892017-3,42,,			meo3/5
9	P2240305a-09	L2410579-08,42,, p			meo3/5
10	P2240305a-10	WG1892017-4,42,, ms			meo3/5
11	P2240305a-11	WG1892017-5,42,, msd			meo3/5
12	P2240305a-12	L2410579-01,42,,			meo3/5
13	P2240305a-13	L2410579-02,42,,			meo3/5
14	P2240305a-14	L2410579-03,42,,			meo3/5
15	P2240305a-15	L2410579-04,42,,			meo3/5
16	P2240305a-16	L2410579-05,42,,			meo3/5
17	P2240305a-17	L2410579-06,42,,			meo3/5
18	P2240305a-18	L2410579-07,42,,			meo3/5
19	P2240305a-19	L2410579-09,42,,			meo3/5
20	P2240305a-20	L2410579-10,42,,			meo3/5
21	P2240305a-21	WG1892099-1,42,,			meo3/5
22	P2240305a-22	WG1892099-2,42,,			meo3/5
23	P2240305a-23	WG1892099-3,42,,			meo3/5
24	P2240305a-24	L2410521-02,42,,			meo3/5
25	P2240305a-25	L2410563-05,42,,		S to F25 meo	meo3/5
26	P2240305a-26	+1660 lvi ccv pp11440	15% 10:24am meo 200-5	V to F26 akm	
27	P2240305a-27	+2154 lvi icv pp11349	pass		
28	P2240305a-28	+1248 lvi icv pp11351	pass		meo3/5
29	P2240305a-29	+4268 lvi icv pp11350	pass		
30	P2240305a-30	blank			
31	P2240305a-31	L2411563-01,42,,,R3B	20x	S to F31 meo	meo3/5
32	P2240305a-32	L2401337-68,42,, p			meo3/5
33	P2240305a-33	WG1892099-4,42,, ms			meo3/5
34	P2240305a-34	WG1892099-5,42,, dup		V to F34 meo	meo3/5
35	P2240305a-35	L2411563-01d,42,20,,R3B		S+V to F35 meo	meo3/5

ALPHA ANALYTICAL LABORATORIES, INC.

Alpha WORK GROUP REPORT (wk02)

Nov 04 2024, 04:12 pm

Work Group: WG1892017 for Department: 2 Organic Preparation

Created: 04-MAR-24 Due: Operator: LJO

Sample	Client ID	C	Product	Matrix	Stat	UA	HOLD	DUE	PR	Location
L2410579-01	MW-1S	S	NYTCL-8082-LVI	WATER	DONE	U	0225	0305	S0	Amber-A.120
L2410579-02	MW-2S	S	NYTCL-8082-LVI	WATER	DONE	U	0225	0305	S0	Amber-A.120
L2410579-03	MW-3S	S	NYTCL-8082-LVI	WATER	DONE	U	0225	0305	S0	Amber-A.120
L2410579-04	MW-4D	S	NYTCL-8082-LVI	WATER	DONE	U	0226	0305	S0	Amber-A.120
L2410579-05	MW-5S	S	NYTCL-8082-LVI	WATER	DONE	U	0226	0305	S0	Amber-A.120
L2410579-06	MW-6D	S	NYTCL-8082-LVI	WATER	DONE	U	0225	0305	S0	Amber-A.120
L2410579-07	MW-7S	S	NYTCL-8082-LVI	WATER	DONE	U	0225	0305	S0	Amber-A.120
L2410579-08	MW-8S	S	NYTCL-8082-LVI	WATER	DONE	U	0226	0305	S0	Amber-A.120
L2410579-09	DUP	S	NYTCL-8082-LVI	WATER	DONE	U	0225	0305	S0	Amber-A.120
L2410579-10	EB	S	NYTCL-8082-LVI	WATER	DONE	U	0226	0305	S0	Amber-A.120
WG1892017-1	Laboratory Method Bl	S	NYTCL-8082-LVI	WATER	DONE	U				
WG1892017-2	Laboratory Control S	S	NYTCL-8082-LVI	WATER	DONE	U				
WG1892017-3	LCS Duplicate	S	NYTCL-8082-LVI	WATER	DONE	U				
WG1892017-4	Matrix Spike	S	NYTCL-8082-LVI	WATER	DONE	U				
WG1892017-5	Matrix Spike Duplica	S	NYTCL-8082-LVI	WATER	DONE	U				

Comments:

WG1892017-3	WG1892017-2
WG1892017-4	L2410579-08
WG1892017-5	L2410579-08

ORGANIC ELN REPORT

Workgroup: WG1892017

Prep Method: EPA 3510C
Solvent Type: DCM **Lot #:** EH976
Surrogate Type: Pesticide/PCB **Lot #:** PP11469b-062924,
Spike Type: PCB **Lot #:** 11331c-040924,
Spike Verify by: LJO
Lims Spikelot: PCB-LVI

Additional Reagents/Stds

Na2SO4	23F1561004

Conc.Method: S-EVAP/N-EVAP
Solvent Type: Hexane
Lot #: EH929

Additional Reagents/Stds

Cleanup 1

Cleanup Method 1: EPA 3665A
Cleanup Method 2:
Solvent Type: Hexane **Lot #:** EH929

Additional Reagents/Stds

H2SO4	2023110713

Cleanup 2

Cleanup Method 1: EPA 3660B
Cleanup Method 2:
Solvent Type: Hexane **Lot #:** EH929

Additional Reagents/Stds

Copper	2310CPRG00301

Cleanup 3

Cleanup Method 1:
Solvent Type: **Lot #:**

Additional Reagents/Stds

Cleanup 4

Cleanup Method 1:
Solvent Type: **Lot #:**

Additional Reagents/Stds

Sample/ Type	Extraction						Concentration			
	Extract Date	Analyst	Sample Vol ml	Ph	Surr Amt ml	Spike Amt ml	Conc Date	Analyst	Final Vol ml	Conc Unit
L2410579-01 WATER	03/04/24 16:35	Luke O'Donnell	140	>5, <9	.1		03/04/24 19:29	Paolo Roffo	5	D / A / #1
L2410579-02 WATER	03/04/24 16:35	Luke O'Donnell	140	>5, <9	.1		03/04/24 19:29	Paolo Roffo	5	D / A / #1
L2410579-03 WATER	03/04/24 16:35	Luke O'Donnell	140	>5, <9	.1		03/04/24 19:33	Paolo Roffo	5	D / A / #1
L2410579-04 WATER	03/04/24 16:35	Luke O'Donnell	140	>5, <9	.1		03/04/24 19:37	Paolo Roffo	5	D / A / #1

Reported: 04-NOV-24 04:12 PM

ORGANIC ELN REPORT

Workgroup: WG1892017

Sample/ Type	Extraction						Concentration			
	Extract Date	Analyst	Sample Vol **ml**	Ph	Surr Amt **ml**	Spike Amt **ml**	Conc Date	Analyst	Final Vol **ml**	Conc Unit
L2410579-05 WATER	03/04/24 16:35	Luke O'Donnell	140	>5, <9	.1		03/04/24 19:27	Paolo Roffo	5	D / A / #1
L2410579-06 WATER	03/04/24 16:35	Luke O'Donnell	140	>5, <9	.1		03/04/24 19:27	Paolo Roffo	5	D / A / #1
L2410579-07 WATER	03/04/24 16:35	Luke O'Donnell	140	>5, <9	.1		03/04/24 19:35	Paolo Roffo	5	D / A / #1
L2410579-08 WATER	03/04/24 16:35	Luke O'Donnell	140	>5, <9	.1		03/04/24 19:12	Paolo Roffo	5	D / A / #1
L2410579-09 WATER	03/04/24 19:36	Luke O'Donnell	140	>5, <9	.1		03/05/24 05:37	Ashley Busold	5	D / A / #1
L2410579-10 WATER	03/04/24 19:36	Luke O'Donnell	140	>5, <9	.1		03/05/24 05:37	Ashley Busold	5	D / A / #1
WG1892017-1 BLANK	03/04/24 16:35	Luke O'Donnell	140	>5, <9	.1		03/04/24 19:14	Paolo Roffo	5	D / A / #1
WG1892017-2 LCS	03/04/24 16:35	Luke O'Donnell	140	>5, <9	.1	.1	03/04/24 19:12	Paolo Roffo	5	D / A / #1

Reported: 04-NOV-24 04:12 PM

ORGANIC ELN REPORT

Workgroup: WG1892017

Sample/ Type	Extraction						Concentration			
	Extract Date	Analyst	Sample Vol **ml**	Ph	Surr Amt **ml**	Spike Amt **ml**	Conc Date	Analyst	Final Vol **ml**	Conc Unit
WG1892017-3 LCSD	03/04/24 16:35	Luke O'Donnell	140	>5, <9	.1	.1	03/04/24 19:13	Paolo Roffo	5	D / A / #1
WG1892017-4 MS	03/04/24 16:35	Luke O'Donnell	140	>5, <9	.1	.1	03/04/24 19:12	Paolo Roffo	5	D / A / #1
WG1892017-5 MSD	03/04/24 16:35	Luke O'Donnell	140	>5, <9	.1	.1	03/04/24 19:12	Paolo Roffo	5	D / A / #1

ORGANIC ELN REPORT

Workgroup: WG1892017

Sample/ Type	Cleanup 1				Cleanup 2	
	Cleanup Date	Analyst	Pest Aliquot **ml**	Pest Final **ml**	Cleanup Date	Analyst
L2410579-01 WATER	03/04/24 22:55	Leslie Castanos	5	1	03/05/24 01:31	Anita Ofori
L2410579-02 WATER	03/04/24 22:55	Leslie Castanos	5	1	03/05/24 01:31	Anita Ofori
L2410579-03 WATER	03/04/24 22:55	Leslie Castanos	5	1	03/05/24 01:31	Anita Ofori
L2410579-04 WATER	03/04/24 22:55	Leslie Castanos	5	1	03/05/24 01:31	Anita Ofori
L2410579-05 WATER	03/04/24 22:55	Leslie Castanos	5	1	03/05/24 01:31	Anita Ofori
L2410579-06 WATER	03/04/24 22:55	Leslie Castanos	5	1	03/05/24 01:31	Anita Ofori
L2410579-07 WATER	03/04/24 22:55	Leslie Castanos	5	1	03/05/24 01:31	Anita Ofori
L2410579-08 WATER	03/04/24 22:55	Leslie Castanos	5	1	03/05/24 01:31	Anita Ofori
L2410579-09 WATER	03/05/24 05:54	Ashley Busold	5	1	03/05/24 06:29	Ashley Busold
L2410579-10 WATER	03/05/24 05:54	Ashley Busold	5	1	03/05/24 06:29	Ashley Busold
WG1892017-1 BLANK	03/04/24 22:55	Leslie Castanos	5	1	03/05/24 01:31	Anita Ofori

ORGANIC ELN REPORT

Workgroup: WG1892017

Sample/ Type	Cleanup 1				Cleanup 2	
	Cleanup Date	Analyst	Pest Aliquot **ml**	Pest Final **ml**	Cleanup Date	Analyst
WG1892017-2 LCS	03/04/24 22:55	Leslie Castanos	5	1	03/05/24 01:31	Anita Ofori
WG1892017-3 LCSD	03/04/24 22:55	Leslie Castanos	5	1	03/05/24 01:31	Anita Ofori
WG1892017-4 MS	03/04/24 22:55	Leslie Castanos	5	1	03/05/24 01:31	Anita Ofori
WG1892017-5 MSD	03/04/24 22:55	Leslie Castanos	5	1	03/05/24 01:31	Anita Ofori

Reported: 04-NOV-24 04:12 PM

GC Extractable Analysis
Pesticides

Pesticide QC Summary

Surrogate Recovery Summary
Form 2
Pesticides

Client: Alpha Geoscience
Project Name: HUNTINGTON READY MIX

Lab Number: L2410579
Project Number: 20116
Matrix: Water

GC Column 1: CLPPesticides
GC Column 2: CLPPesticidesII

CLIENT ID (LAB SAMPLE NO.)	TCX 1 %REC	TCX 2 %REC	DCB 1 %REC	DCB 2 %REC	OTHER (1)	OTHER (2)	TOT OUT
MW-1S (L2410579-01)	69	60	61	77			0
MW-2S (L2410579-02)	76	69	75	97			0
MW-3S (L2410579-03)	59	55	63	83			0
MW-4D (L2410579-04)	56	57	71	66			0
MW-5S (L2410579-05)	59	59	72	65			0
MW-6D (L2410579-06)	78	73	74	98			0
MW-7S (L2410579-07)	81	74	77	101			0
MW-8S (L2410579-08)	49	49	64	60			0
DUP (L2410579-09)	60	56	72	64			0
EB (L2410579-10)	87	90	41	39			0
WG1891324-1BLANK	65	61	84	71			0
WG1891324-2LCS	48	45	57	48			0
WG1891324-3LCSD	70	66	85	74			0
WG1892124-1BLANK	62	60	95	83			0
WG1892124-2LCS	63	62	104	93			0
WG1892124-3LCSD	60	60	91	86			0
MW-8SMS	55	54	61	60			0
MW-8SMSD	55	55	67	66			0

QC LIMITS
(30-150) TCX = 2,4,5,6-TETRACHLORO-M-XYLENE
(30-150) DCBP = DECACHLOROBIPHENYL

*** Values outside of QC limits**

Laboratory Control Sample Summary
Form 3
Pesticides

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Matrix (Level)	: WATER (LOW)		
LCS Sample ID	: WG1891324-2 **Analysis Date** : 03/02/24 15:54	**File ID**	: 20240302a-24
LCSD Sample ID	: WG1891324-3 **Analysis Date** : 03/02/24 16:07	**File ID**	: 20240302a-25

	Laboratory Control Sample			Laboratory Control Duplicate						
Parameter	True (ug/l)	Found (ug/l)	%R	True (ug/l)	Found (ug/l)	%R	RPD		Recovery Limits	RPD Limit
Delta-BHC	0.357	0.181	51	0.357	0.235	66	26	Q	30-150	20
Lindane	0.357	0.199	56	0.357	0.253	71	24	Q	30-150	20
Alpha-BHC	0.357	0.198	55	0.357	0.254	71	25	Q	30-150	20
Beta-BHC	0.357	0.227	64	0.357	0.287	80	23	Q	30-150	20
Heptachlor	0.357	0.220	62	0.357	0.270	76	20		30-150	20
Aldrin	0.357	0.170	48	0.357	0.208	58	20		30-150	20
Heptachlor epoxide	0.357	0.222	62	0.357	0.284	80	24	Q	30-150	20
Endrin	0.357	0.215	60	0.357	0.270	76	23	Q	30-150	20
Endrin aldehyde	0.357	0.186	52	0.357	0.242	68	26	Q	30-150	20
Endrin ketone	0.357	0.223	62	0.357	0.291	82	27	Q	30-150	20
Dieldrin	0.357	0.214	60	0.357	0.271	76	24	Q	30-150	20
4,4'-DDE	0.357	0.188	53	0.357	0.237	66	23	Q	30-150	20
4,4'-DDD	0.357	0.218	61	0.357	0.279	78	25	Q	30-150	20
4,4'-DDT	0.357	0.226	63	0.357	0.288	81	24	Q	30-150	20
Endosulfan I	0.357	0.218	61	0.357	0.278	78	24	Q	30-150	20
Endosulfan II	0.357	0.210	59	0.357	0.270	76	25	Q	30-150	20
Endosulfan sulfate	0.357	0.196	55	0.357	0.259	73	28	Q	30-150	20
Methoxychlor	0.357	0.302	85	0.357	0.380	106	22	Q	30-150	20
cis-Chlordane	0.357	0.202	57	0.357	0.253	71	22	Q	30-150	20
trans-Chlordane	0.357	0.190	53	0.357	0.243	68	24	Q	30-150	20

Laboratory Control Sample Summary
Form 3
Pesticides

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Matrix (Level)	: WATER (LOW)		
LCS Sample ID	: WG1892124-2 **Analysis Date** : 03/05/24 08:51	**File ID**	: 11240305a-08
LCSD Sample ID	: WG1892124-3 **Analysis Date** : 03/05/24 09:03	**File ID**	: 11240305a-09

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	True (ug/l)	Found (ug/l)	%R	True (ug/l)	Found (ug/l)	%R	RPD	Recovery Limits	RPD Limit
Delta-BHC	0.357	0.174	49	0.357	0.176	49	1	30-150	20
Lindane	0.357	0.221	62	0.357	0.222	62	0	30-150	20
Alpha-BHC	0.357	0.223	62	0.357	0.222	62	0	30-150	20
Beta-BHC	0.357	0.226	63	0.357	0.230	64	2	30-150	20
Heptachlor	0.357	0.213	60	0.357	0.213	60	0	30-150	20
Aldrin	0.357	0.200	56	0.357	0.196	55	2	30-150	20
Heptachlor epoxide	0.357	0.198	55	0.357	0.201	56	2	30-150	20
Endrin	0.357	0.184	52	0.357	0.190	53	3	30-150	20
Endrin aldehyde	0.357	0.163	46	0.357	0.166	47	2	30-150	20
Endrin ketone	0.357	0.236	66	0.357	0.239	67	1	30-150	20
Dieldrin	0.357	0.199	56	0.357	0.203	57	2	30-150	20
4,4'-DDE	0.357	0.212	59	0.357	0.213	60	0	30-150	20
4,4'-DDD	0.357	0.186	52	0.357	0.193	54	4	30-150	20
4,4'-DDT	0.357	0.184	52	0.357	0.190	53	3	30-150	20
Endosulfan I	0.357	0.185	52	0.357	0.186	52	1	30-150	20
Endosulfan II	0.357	0.180	50	0.357	0.187	52	4	30-150	20
Endosulfan sulfate	0.357	0.193	54	0.357	0.199	56	3	30-150	20
Methoxychlor	0.357	0.210	59	0.357	0.220	62	5	30-150	20
cis-Chlordane	0.357	0.184	52	0.357	0.185	52	1	30-150	20
trans-Chlordane	0.357	0.220	62	0.357	0.224	63	2	30-150	20

Matrix Spike Sample Summary
Form 3
Pesticides

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Client Sample ID	: MW-8S	**Matrix (Level)**	: WATER (LOW)
Lab Sample ID	: L2410579-08	**Analysis Date**	: 03/05/24 09:51
Matrix Spike	: WG1892124-4	**MS Analysis Date**	: 03/05/24 10:02
Matrix Spike Dup	: WG1892124-5	**MSD Analysis Date**	: 03/05/24 10:14

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	Sample Conc. (ug/l)	Spike Added (ug/l)	Spike Conc. (ug/l)	%R	Spike Added (ug/l)	Spike Conc. (ug/l)	%R	RPD	Recovery Limits	RPD Limit
Delta-BHC	ND	0.357	0.163	46	0.357	0.166	46	2	30-150	30
Lindane	ND	0.357	0.208	58	0.357	0.207	58	0	30-150	30
Alpha-BHC	ND	0.357	0.211	59	0.357	0.211	59	0	30-150	30
Beta-BHC	ND	0.357	0.215	60	0.357	0.217	61	1	30-150	30
Heptachlor	ND	0.357	0.200	56	0.357	0.200	56	0	30-150	30
Aldrin	ND	0.357	0.187	52	0.357	0.187	52	0	30-150	30
Heptachlor epoxide	ND	0.357	0.184	52	0.357	0.184	52	0	30-150	30
Endrin	ND	0.357	0.172	48	0.357	0.176	49	2	30-150	30
Endrin aldehyde	ND	0.357	0.149	42	0.357	0.151	42	1	30-150	30
Endrin ketone	ND	0.357	0.217	61	0.357	0.227	64	5	30-150	30
Dieldrin	ND	0.357	0.184	52	0.357	0.187	52	2	30-150	30
4,4'-DDE	ND	0.357	0.169	47	0.357	0.173	48	2	30-150	30
4,4'-DDD	ND	0.357	0.168	47	0.357	0.175	49	4	30-150	30
4,4'-DDT	ND	0.357	0.156	44	0.357	0.162	45	4	30-150	30
Endosulfan I	ND	0.357	0.170	48	0.357	0.173	48	2	30-150	30
Endosulfan II	ND	0.357	0.166	46	0.357	0.173	48	4	30-150	30
Endosulfan sulfate	ND	0.357	0.181	51	0.357	0.183	51	1	30-150	30
Methoxychlor	ND	0.357	0.191	54	0.357	0.199	56	4	30-150	30
cis-Chlordane	ND	0.357	0.168	47	0.357	0.170	48	1	30-150	30
trans-Chlordane	ND	0.357	0.198	55	0.357	0.202	57	2	30-150	30

Method Blank Summary
Form 4
Pesticides

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab Sample ID	: WG1891324-1	**Lab File ID**	: 20240302a-23
Matrix	: WATER	**Extraction Date**	: 03/01/24
Analysis Date (1)	: 03/02/24 15:42	**Analysis Date (2)**	: 03/02/24 15:42
Instrument ID (1)	: PEST20	**Instrument ID (2)**	: PEST20

Client Sample No.	Lab Sample ID	Analysis Date 1	Analysis Date 2
WG1891324-2LCS	WG1891324-2	03/02/24 15:54	03/02/24 15:54
WG1891324-3LCSD	WG1891324-3	03/02/24 16:07	03/02/24 16:07
DUP	L2410579-09	03/02/24 16:19	03/02/24 16:19
MW-1S	L2410579-01	03/02/24 19:31	03/02/24 19:31
MW-2S	L2410579-02	03/02/24 19:43	03/02/24 19:43
MW-3S	L2410579-03	03/02/24 19:54	03/02/24 19:54
MW-6D	L2410579-06	03/02/24 20:05	03/02/24 20:05
MW-7S	L2410579-07	03/02/24 20:16	03/02/24 20:16

Method Blank Summary
Form 4
Pesticides

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab Sample ID	: WG1892124-1	**Lab File ID**	: 11240305a-07
Matrix	: WATER	**Extraction Date**	: 03/05/24
Analysis Date (1)	: 03/05/24 08:39	**Analysis Date (2)**	: 03/05/24 08:39
Instrument ID (1)	: PEST11	**Instrument ID (2)**	: PEST11

Client Sample No.	Lab Sample ID	Analysis Date 1	Analysis Date 2
WG1892124-2LCS	WG1892124-2	03/05/24 08:51	03/05/24 08:51
WG1892124-3LCSD	WG1892124-3	03/05/24 09:03	03/05/24 09:03
MW-4D	L2410579-04	03/05/24 09:27	03/05/24 09:27
MW-5S	L2410579-05	03/05/24 09:39	03/05/24 09:39
MW-8S	L2410579-08	03/05/24 09:51	03/05/24 09:51
MW-8SMS	WG1892124-4	03/05/24 10:02	03/05/24 10:02
MW-8SMSD	WG1892124-5	03/05/24 10:14	03/05/24 10:14
EB	L2410579-10	03/05/24 12:34	03/05/24 12:34

Analytical Sequence
Form 8b
Pesticides

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Instrument ID	: PEST15	**Initial Calib. Date(s)**	: 01/08/24 01/08/24

Client ID	Lab ID	Date/Time Analyzed
R1785230-1 PEM	R1785230-1	01/08/24 14:48
Pesticides L1 (0.5ug/L)	R1785230-2	01/08/24 15:00
Pesticides L2 (1.0ug/L)	R1785230-3	01/08/24 15:11
Pesticides L3 (2.0ug/L)	R1785230-4	01/08/24 15:23
Pesticides L4 (3.0ug/L)	R1785230-5	01/08/24 15:35
Pesticides L5 (4.0ug/L)	R1785230-6	01/08/24 15:47
Pesticides L7 (10.0ug/L)	R1785230-7	01/08/24 15:59
Pesticides L8 (50.0ug/L)	R1785230-8	01/08/24 16:11
Pesticides L9 (100ug/L)	R1785230-9	01/08/24 16:23
Pesticides L10 (200ug/L)	R1785230-10	01/08/24 16:34
Pesticides L11 (400ug/L)	R1785230-11	01/08/24 16:46
R1785230-12 ICV	R1785230-12	01/08/24 16:58
Chlordane L3 (10ug/L)	R1785230-13	01/08/24 17:10
Chlordane L4 (20ug/L)	R1785230-14	01/08/24 17:22
Chlordane L5 (100ug/L)	R1785230-15	01/08/24 17:34
Chlordane L7 (500ug/L)	R1785230-16	01/08/24 17:46
Chlordane L8 (1000ug/L)	R1785230-17	01/08/24 17:58
Chlordane L9 (2000ug/L)	R1785230-18	01/08/24 18:10
Chlordane L10 (5000ug/L)	R1785230-19	01/08/24 18:22
R1785230-20 ICV	R1785230-20	01/08/24 18:34
Toxaphene L3 (20.0ug/L)	R1785230-21	01/08/24 18:45
Toxaphene L8 (2000ug/L)	R1785230-22	01/08/24 18:57
Toxaphene L9 (5000ug/L)	R1785230-23	01/08/24 19:09
R1785230-24 ICV	R1785230-24	01/08/24 19:21
R1800740-1 PEM	R1800740-1	03/02/24 14:55
WG1891515-1 CCAL	WG1891515-1	03/02/24 15:07
WG1891515-3 CCAL	WG1891515-3	03/02/24 15:29
WG1891515-2 CCAL	WG1891515-2	03/02/24 15:40
MW-1S	L2410579-01	03/02/24 19:31
MW-2S	L2410579-02	03/02/24 19:43
MW-3S	L2410579-03	03/02/24 19:54
MW-6D	L2410579-06	03/02/24 20:05
MW-7S	L2410579-07	03/02/24 20:16

Analytical Sequence
Form 8b
Pesticides

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Instrument ID	: PEST20	**Initial Calib. Date(s)**	: 12/15/23 12/15/23

Client ID	Lab ID	Date/Time Analyzed
R1776532-1 PEM	R1776532-1	12/15/23 16:46
Pesticides L1 (0.5ug/L)	R1776532-2	12/15/23 16:59
Pesticides L2 (1.0ug/L)	R1776532-3	12/15/23 17:11
Pesticides L3 (2.0ug/L)	R1776532-4	12/15/23 17:24
Pesticides L4 (3.0ug/L)	R1776532-5	12/15/23 17:36
Pesticides L5 (4.0ug/L)	R1776532-6	12/15/23 17:48
Pesticides L7 (10.0ug/L)	R1776532-7	12/15/23 18:01
Pesticides L8 (50.0ug/L)	R1776532-8	12/15/23 18:13
Pesticides L9 (100ug/L)	R1776532-9	12/15/23 18:26
Pesticides L10 (200ug/L)	R1776532-10	12/15/23 18:38
Pesticides L11 (400ug/L)	R1776532-11	12/15/23 18:50
R1776532-12 ICV	R1776532-12	12/15/23 19:03
Chlordane L3 (10ug/L)	R1776532-13	12/15/23 19:15
Chlordane L4 (20ug/L)	R1776532-14	12/15/23 19:28
Chlordane L5 (100ug/L)	R1776532-15	12/15/23 19:40
Chlordane L7 (500ug/L)	R1776532-16	12/15/23 19:53
Chlordane L8 (1000ug/L)	R1776532-17	12/15/23 20:05
Chlordane L9 (2000ug/L)	R1776532-18	12/15/23 20:17
Chlordane L10 (5000ug/L)	R1776532-19	12/15/23 20:30
R1776532-20 ICV	R1776532-20	12/15/23 20:42
Toxaphene L3 (20.0ug/L)	R1776532-21	12/15/23 20:55
Toxaphene L8 (2000ug/L)	R1776532-22	12/15/23 21:07
Toxaphene L9 (5000ug/L)	R1776532-23	12/15/23 21:20
R1776532-24 ICV	R1776532-24	12/15/23 21:32
R1800735-1 PEM	R1800735-1	03/02/24 06:43
WG1891472-1 CCAL	WG1891472-1	03/02/24 06:55
WG1891472-2 CCAL	WG1891472-2	03/02/24 07:08
WG1891472-3 CCAL	WG1891472-3	03/02/24 07:20
WG1891324-1 BLANK	WG1891324-1	03/02/24 15:42
WG1891324-2 LCS	WG1891324-2	03/02/24 15:54
WG1891324-3 LCSD	WG1891324-3	03/02/24 16:07
DUP	L2410579-09	03/02/24 16:19

Analytical Sequence
Form 8b
Pesticides

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Instrument ID	: PEST11	**Initial Calib. Date(s)**	: 12/19/23 12/19/23

Client ID	Lab ID	Date/Time Analyzed
R1777763-24 PEM	R1777763-24	12/19/23 13:36
Pesticides L1 (0.5ug/L)	R1777763-1	12/19/23 13:48
Pesticides L2 (1.0ug/L)	R1777763-2	12/19/23 14:00
Pesticides L3 (2.0ug/L)	R1777763-3	12/19/23 14:12
Pesticides L4 (3.0ug/L)	R1777763-4	12/19/23 14:23
Pesticides L5 (4.0ug/L)	R1777763-5	12/19/23 14:35
Pesticides L7 (10.0ug/L)	R1777763-6	12/19/23 14:47
Pesticides L8 (50.0ug/L)	R1777763-7	12/19/23 14:59
Pesticides L9 (100ug/L)	R1777763-8	12/19/23 15:11
Pesticides L10 (200ug/L)	R1777763-9	12/19/23 15:23
Pesticides L11 (400ug/L)	R1777763-10	12/19/23 15:35
R1777763-11 ICV	R1777763-11	12/19/23 15:47
Chlordane L3 (10ug/L)	R1777763-12	12/19/23 15:59
Chlordane L4 (20ug/L)	R1777763-13	12/19/23 16:10
Chlordane L5 (100ug/L)	R1777763-14	12/19/23 16:22
Chlordane L7 (500ug/L) -	R1777763-15	12/19/23 16:34
Chlordane L8 (1000ug/L)	R1777763-16	12/19/23 16:46
Chlordane L9 (2000ug/L)	R1777763-17	12/19/23 16:58
Chlordane L10 (5000ug/L)	R1777763-18	12/19/23 17:10
R1777763-19 ICV	R1777763-19	12/19/23 17:21
Toxaphene L3 (20.0ug/L)	R1777763-20	12/19/23 17:33
Toxaphene L8 (2000ug/L)	R1777763-21	12/19/23 17:45
Toxaphene L9 (5000ug/L)	R1777763-22	12/19/23 17:57
R1777763-23 ICV	R1777763-23	12/19/23 18:09
R1801456-1 PEM	R1801456-1	03/05/24 07:12
WG1892239-1 CCAL	WG1892239-1	03/05/24 07:24
WG1892239-2 CCAL	WG1892239-2	03/05/24 07:36
WG1892239-3 CCAL	WG1892239-3	03/05/24 07:48
WG1892124-1 BLANK	WG1892124-1	03/05/24 08:39
WG1892124-2 LCS	WG1892124-2	03/05/24 08:51
WG1892124-3 LCSD	WG1892124-3	03/05/24 09:03
MW-4D	L2410579-04	03/05/24 09:27
MW-5S	L2410579-05	03/05/24 09:39
MW-8S	L2410579-08	03/05/24 09:51
MW-8S MS	WG1892124-4	03/05/24 10:02
MW-8S MSD	WG1892124-5	03/05/24 10:14
EB	L2410579-10	03/05/24 12:34

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Created By: Jason Hebert
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Pesticides - EPA 8081B (SOIL)

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

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Delta-BHC	319-86-8	1.6008	0.31349	ug/kg	30-150	30	30-150	50	50			
Lindane	58-89-9	0.667	0.298149	ug/kg	30-150	30	30-150	50	50			
Alpha-BHC	319-84-6	0.667	0.189428	ug/kg	30-150	30	30-150	50	50			
Beta-BHC	319-85-7	1.6008	0.60697	ug/kg	30-150	30	30-150	50	50			
Heptachlor	76-44-8	0.8004	0.358846	ug/kg	30-150	30	30-150	50	50			
Aldrin	309-00-2	1.6008	0.563615	ug/kg	30-150	30	30-150	50	50			
Heptachlor epoxide	1024-57-3	3.0015	0.90045	ug/kg	30-150	30	30-150	50	50			
Endrin	72-20-8	0.667	0.27347	ug/kg	30-150	30	30-150	50	50			
Endrin aldehyde	7421-93-4	2.001	0.70035	ug/kg	30-150	30	30-150	50	50			
Endrin ketone	53494-70-5	1.6008	0.412206	ug/kg	30-150	30	30-150	50	50			
Dieldrin	60-57-1	1.0005	0.50025	ug/kg	30-150	30	30-150	50	50			
4,4'-DDE	72-55-9	1.6008	0.370185	ug/kg	30-150	30	30-150	50	50			
4,4'-DDD	72-54-8	1.6008	0.570952	ug/kg	30-150	30	30-150	50	50			
4,4'-DDT	50-29-3	3.0015	1.28731	ug/kg	30-150	30	30-150	50	50			
Endosulfan I	959-98-8	1.6008	0.378189	ug/kg	30-150	30	30-150	50	50			
Endosulfan II	33213-65-9	1.6008	0.534934	ug/kg	30-150	30	30-150	50	50			
Endosulfan sulfate	1031-07-8	0.667	0.317492	ug/kg	30-150	30	30-150	50	50			
Methoxychlor	72-43-5	3.0015	0.9338	ug/kg	30-150	30	30-150	50	50			
Toxaphene	8001-35-2	30.015	8.4042	ug/kg	30-150	30	30-150	50	50			
Chlordane	57-74-9	13.34	5.30265	ug/kg	30-150	30	30-150	50	50			
cis-Chlordane	5103-71-9	2.001	0.557612	ug/kg	30-150	30	30-150	50	50			
trans-Chlordane	5103-74-2	2.001	0.528264	ug/kg	30-150	30	30-150	50	50			
2,4,5,6-Tetrachloro-m-xylene	*877-09-8*									*30-150*		
Decachlorobiphenyl	*2051-24-3*									*30-150*		

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

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Pesticides - EPA 8081B (WATER)

Holding Time: 7 days
Container/Sample Preservation: 2 - Amber 120ml unpreserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Delta-BHC	319-86-8	0.02	0.00467	ug/l	30-150	20	30-150	30	30			
Lindane	58-89-9	0.02	0.00434	ug/l	30-150	20	30-150	30	30			
Alpha-BHC	319-84-6	0.02	0.00439	ug/l	30-150	20	30-150	30	30			
Beta-BHC	319-85-7	0.02	0.0056	ug/l	30-150	20	30-150	30	30			
Heptachlor	76-44-8	0.02	0.0031	ug/l	30-150	20	30-150	30	30			
Aldrin	309-00-2	0.02	0.00216	ug/l	30-150	20	30-150	30	30			
Heptachlor epoxide	1024-57-3	0.02	0.00415	ug/l	30-150	20	30-150	30	30			
Endrin	72-20-8	0.04	0.00429	ug/l	30-150	20	30-150	30	30			
Endrin aldehyde	7421-93-4	0.04	0.0081	ug/l	30-150	20	30-150	30	30			
Endrin ketone	53494-70-5	0.04	0.00477	ug/l	30-150	20	30-150	30	30			
Dieldrin	60-57-1	0.04	0.00429	ug/l	30-150	20	30-150	30	30			
4,4'-DDE	72-55-9	0.04	0.00381	ug/l	30-150	20	30-150	30	30			
4,4'-DDD	72-54-8	0.04	0.00464	ug/l	30-150	20	30-150	30	30			
4,4'-DDT	50-29-3	0.04	0.00432	ug/l	30-150	20	30-150	30	30			
Endosulfan I	959-98-8	0.02	0.00345	ug/l	30-150	20	30-150	30	30			
Endosulfan II	33213-65-9	0.04	0.00519	ug/l	30-150	20	30-150	30	30			
Endosulfan sulfate	1031-07-8	0.04	0.00481	ug/l	30-150	20	30-150	30	30			
Methoxychlor	72-43-5	0.2	0.00684	ug/l	30-150	20	30-150	30	30			
Toxaphene	8001-35-2	0.2	0.0627	ug/l	30-150	20	30-150	30	30			
Chlordane	57-74-9	0.2	0.0463	ug/l	40-140	20	30-150	30	30			
cis-Chlordane	5103-71-9	0.02	0.00666	ug/l	30-150	20	30-150	30	30			
trans-Chlordane	5103-74-2	0.02	0.00627	ug/l	30-150	20	30-150	30	30			
2,4,5,6-Tetrachloro-m-xylene	*877-09-8*									*30-150*		
Decachlorobiphenyl	*2051-24-3*									*30-150*		

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

Pesticide Sample Data

Results Summary
Form 1
Organochlorine Pesticides by GC

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2410579-01	**Date Collected**	: 02/26/24 14:10
Client ID	: MW-1S	**Date Received**	: 02/27/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 03/02/24 19:31
Sample Matrix	: WATER	**Date Extracted**	: 03/01/24
Analytical Method	: 1,8081B	**Dilution Factor**	: 1
Lab File ID	: 15240302a-20	**Analyst**	: MMG
Sample Amount	: 140 ml	**Instrument ID**	: PEST15
Extraction Method	: EPA 3510C	**GC Column**	: CLPPesticides
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: N		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
319-86-8	Delta-BHC	ND	0.014	0.003	U
58-89-9	Lindane	ND	0.014	0.003	U
319-84-6	Alpha-BHC	ND	0.014	0.003	U
319-85-7	Beta-BHC	ND	0.014	0.004	U
76-44-8	Heptachlor	ND	0.014	0.002	U
309-00-2	Aldrin	ND	0.014	0.002	U
1024-57-3	Heptachlor epoxide	ND	0.014	0.003	U
72-20-8	Endrin	ND	0.029	0.003	U
7421-93-4	Endrin aldehyde	ND	0.029	0.006	U
53494-70-5	Endrin ketone	ND	0.029	0.003	U
60-57-1	Dieldrin	ND	0.029	0.003	U
72-55-9	4,4'-DDE	ND	0.029	0.003	U
72-54-8	4,4'-DDD	ND	0.029	0.003	U
50-29-3	4,4'-DDT	ND	0.029	0.003	U
959-98-8	Endosulfan I	ND	0.014	0.002	U
33213-65-9	Endosulfan II	ND	0.029	0.004	U
1031-07-8	Endosulfan sulfate	ND	0.029	0.003	U
72-43-5	Methoxychlor	ND	0.143	0.005	U
8001-35-2	Toxaphene	ND	0.143	0.045	U
5103-71-9	cis-Chlordane	ND	0.014	0.005	U
5103-74-2	trans-Chlordane	ND	0.014	0.004	U

Results Summary
Form 1
Organochlorine Pesticides by GC

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2410579-01	**Date Collected**	: 02/26/24 14:10
Client ID	: MW-1S	**Date Received**	: 02/27/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 03/02/24 19:31
Sample Matrix	: WATER	**Date Extracted**	: 03/01/24
Analytical Method	: 1,8081B	**Dilution Factor**	: 1
Lab File ID	: 15240302a-20	**Analyst**	: MMG
Sample Amount	: 140 ml	**Instrument ID**	: PEST15
Extraction Method	: EPA 3510C	**GC Column**	: CLPPesticides
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: N		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
57-74-9	Chlordane	ND	0.143	0.033	U

Results Summary
Form 1
Organochlorine Pesticides by GC

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2410579-02	**Date Collected**	: 02/26/24 15:25
Client ID	: MW-2S	**Date Received**	: 02/27/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 03/02/24 19:43
Sample Matrix	: WATER	**Date Extracted**	: 03/01/24
Analytical Method	: 1,8081B	**Dilution Factor**	: 1
Lab File ID	: 15240302a-21	**Analyst**	: MMG
Sample Amount	: 140 ml	**Instrument ID**	: PEST15
Extraction Method	: EPA 3510C	**GC Column**	: CLPPesticides
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: N		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
319-86-8	Delta-BHC	ND	0.014	0.003	U
58-89-9	Lindane	ND	0.014	0.003	U
319-84-6	Alpha-BHC	ND	0.014	0.003	U
319-85-7	Beta-BHC	ND	0.014	0.004	U
76-44-8	Heptachlor	ND	0.014	0.002	U
309-00-2	Aldrin	ND	0.014	0.002	U
1024-57-3	Heptachlor epoxide	ND	0.014	0.003	U
72-20-8	Endrin	ND	0.029	0.003	U
7421-93-4	Endrin aldehyde	ND	0.029	0.006	U
53494-70-5	Endrin ketone	ND	0.029	0.003	U
60-57-1	Dieldrin	ND	0.029	0.003	U
72-55-9	4,4'-DDE	ND	0.029	0.003	U
72-54-8	4,4'-DDD	ND	0.029	0.003	U
50-29-3	4,4'-DDT	ND	0.029	0.003	U
959-98-8	Endosulfan I	ND	0.014	0.002	U
33213-65-9	Endosulfan II	ND	0.029	0.004	U
1031-07-8	Endosulfan sulfate	ND	0.029	0.003	U
72-43-5	Methoxychlor	ND	0.143	0.005	U
8001-35-2	Toxaphene	ND	0.143	0.045	U
5103-71-9	cis-Chlordane	ND	0.014	0.005	U
5103-74-2	trans-Chlordane	ND	0.014	0.004	U

Results Summary
Form 1
Organochlorine Pesticides by GC

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2410579-02	**Date Collected**	: 02/26/24 15:25
Client ID	: MW-2S	**Date Received**	: 02/27/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 03/02/24 19:43
Sample Matrix	: WATER	**Date Extracted**	: 03/01/24
Analytical Method	: 1,8081B	**Dilution Factor**	: 1
Lab File ID	: 15240302a-21	**Analyst**	: MMG
Sample Amount	: 140 ml	**Instrument ID**	: PEST15
Extraction Method	: EPA 3510C	**GC Column**	: CLPPesticides
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: N		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
57-74-9	Chlordane	ND	0.143	0.033	U

Results Summary
Form 1
Organochlorine Pesticides by GC

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2410579-03	**Date Collected**	: 02/26/24 16:30
Client ID	: MW-3S	**Date Received**	: 02/27/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 03/02/24 19:54
Sample Matrix	: WATER	**Date Extracted**	: 03/01/24
Analytical Method	: 1,8081B	**Dilution Factor**	: 1
Lab File ID	: 15240302a-22	**Analyst**	: MMG
Sample Amount	: 140 ml	**Instrument ID**	: PEST15
Extraction Method	: EPA 3510C	**GC Column**	: CLPPesticides
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: N		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
319-86-8	Delta-BHC	ND	0.014	0.003	U
58-89-9	Lindane	ND	0.014	0.003	U
319-84-6	Alpha-BHC	ND	0.014	0.003	U
319-85-7	Beta-BHC	ND	0.014	0.004	U
76-44-8	Heptachlor	ND	0.014	0.002	U
309-00-2	Aldrin	ND	0.014	0.002	U
1024-57-3	Heptachlor epoxide	ND	0.014	0.003	U
72-20-8	Endrin	ND	0.029	0.003	U
7421-93-4	Endrin aldehyde	ND	0.029	0.006	U
53494-70-5	Endrin ketone	ND	0.029	0.003	U
60-57-1	Dieldrin	ND	0.029	0.003	U
72-55-9	4,4'-DDE	ND	0.029	0.003	U
72-54-8	4,4'-DDD	ND	0.029	0.003	U
50-29-3	4,4'-DDT	ND	0.029	0.003	U
959-98-8	Endosulfan I	ND	0.014	0.002	U
33213-65-9	Endosulfan II	ND	0.029	0.004	U
1031-07-8	Endosulfan sulfate	ND	0.029	0.003	U
72-43-5	Methoxychlor	ND	0.143	0.005	U
8001-35-2	Toxaphene	ND	0.143	0.045	U
5103-71-9	cis-Chlordane	ND	0.014	0.005	U
5103-74-2	trans-Chlordane	ND	0.014	0.004	U

Results Summary
Form 1
Organochlorine Pesticides by GC

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2410579-03	**Date Collected**	: 02/26/24 16:30
Client ID	: MW-3S	**Date Received**	: 02/27/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 03/02/24 19:54
Sample Matrix	: WATER	**Date Extracted**	: 03/01/24
Analytical Method	: 1,8081B	**Dilution Factor**	: 1
Lab File ID	: 15240302a-22	**Analyst**	: MMG
Sample Amount	: 140 ml	**Instrument ID**	: PEST15
Extraction Method	: EPA 3510C	**GC Column**	: CLPPesticides
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: N		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
57-74-9	Chlordane	ND	0.143	0.033	U

Results Summary
Form 1
Organochlorine Pesticides by GC

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2410579-04	**Date Collected**	: 02/27/24 09:05
Client ID	: MW-4D	**Date Received**	: 02/27/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 03/05/24 09:27
Sample Matrix	: WATER	**Date Extracted**	: 03/05/24
Analytical Method	: 1,8081B	**Dilution Factor**	: 1
Lab File ID	: 11240305a-11	**Analyst**	: MMG
Sample Amount	: 140 ml	**Instrument ID**	: PEST11
Extraction Method	: EPA 3510C	**GC Column**	: CLPPesticides
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: N		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
319-86-8	Delta-BHC	ND	0.014	0.003	U
58-89-9	Lindane	ND	0.014	0.003	U
319-84-6	Alpha-BHC	ND	0.014	0.003	U
319-85-7	Beta-BHC	ND	0.014	0.004	U
76-44-8	Heptachlor	ND	0.014	0.002	U
309-00-2	Aldrin	ND	0.014	0.002	U
1024-57-3	Heptachlor epoxide	ND	0.014	0.003	U
72-20-8	Endrin	ND	0.029	0.003	U
7421-93-4	Endrin aldehyde	ND	0.029	0.006	U
53494-70-5	Endrin ketone	ND	0.029	0.003	U
60-57-1	Dieldrin	ND	0.029	0.003	U
72-55-9	4,4'-DDE	ND	0.029	0.003	U
72-54-8	4,4'-DDD	ND	0.029	0.003	U
50-29-3	4,4'-DDT	ND	0.029	0.003	U
959-98-8	Endosulfan I	ND	0.014	0.002	U
33213-65-9	Endosulfan II	ND	0.029	0.004	U
1031-07-8	Endosulfan sulfate	ND	0.029	0.003	U
72-43-5	Methoxychlor	ND	0.143	0.005	U
8001-35-2	Toxaphene	ND	0.143	0.045	U
5103-71-9	cis-Chlordane	ND	0.014	0.005	U
5103-74-2	trans-Chlordane	ND	0.014	0.004	U

Results Summary
Form 1
Organochlorine Pesticides by GC

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2410579-04	**Date Collected**	: 02/27/24 09:05
Client ID	: MW-4D	**Date Received**	: 02/27/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 03/05/24 09:27
Sample Matrix	: WATER	**Date Extracted**	: 03/05/24
Analytical Method	: 1,8081B	**Dilution Factor**	: 1
Lab File ID	: 11240305a-11	**Analyst**	: MMG
Sample Amount	: 140 ml	**Instrument ID**	: PEST11
Extraction Method	: EPA 3510C	**GC Column**	: CLPPesticides
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: N		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
57-74-9	Chlordane	ND	0.143	0.033	U

Results Summary
Form 1
Organochlorine Pesticides by GC

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2410579-05	**Date Collected**	: 02/27/24 08:40
Client ID	: MW-5S	**Date Received**	: 02/27/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 03/05/24 09:39
Sample Matrix	: WATER	**Date Extracted**	: 03/05/24
Analytical Method	: 1,8081B	**Dilution Factor**	: 1
Lab File ID	: 11240305a-12	**Analyst**	: MMG
Sample Amount	: 140 ml	**Instrument ID**	: PEST11
Extraction Method	: EPA 3510C	**GC Column**	: CLPPesticides
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: N		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
319-86-8	Delta-BHC	ND	0.014	0.003	U
58-89-9	Lindane	ND	0.014	0.003	U
319-84-6	Alpha-BHC	ND	0.014	0.003	U
319-85-7	Beta-BHC	ND	0.014	0.004	U
76-44-8	Heptachlor	ND	0.014	0.002	U
309-00-2	Aldrin	ND	0.014	0.002	U
1024-57-3	Heptachlor epoxide	ND	0.014	0.003	U
72-20-8	Endrin	ND	0.029	0.003	U
7421-93-4	Endrin aldehyde	ND	0.029	0.006	U
53494-70-5	Endrin ketone	ND	0.029	0.003	U
60-57-1	Dieldrin	ND	0.029	0.003	U
72-55-9	4,4'-DDE	ND	0.029	0.003	U
72-54-8	4,4'-DDD	ND	0.029	0.003	U
50-29-3	4,4'-DDT	ND	0.029	0.003	U
959-98-8	Endosulfan I	ND	0.014	0.002	U
33213-65-9	Endosulfan II	ND	0.029	0.004	U
1031-07-8	Endosulfan sulfate	ND	0.029	0.003	U
72-43-5	Methoxychlor	ND	0.143	0.005	U
8001-35-2	Toxaphene	ND	0.143	0.045	U
5103-71-9	cis-Chlordane	ND	0.014	0.005	U
5103-74-2	trans-Chlordane	ND	0.014	0.004	U

Results Summary
Form 1
Organochlorine Pesticides by GC

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2410579-05	**Date Collected**	: 02/27/24 08:40
Client ID	: MW-5S	**Date Received**	: 02/27/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 03/05/24 09:39
Sample Matrix	: WATER	**Date Extracted**	: 03/05/24
Analytical Method	: 1,8081B	**Dilution Factor**	: 1
Lab File ID	: 11240305a-12	**Analyst**	: MMG
Sample Amount	: 140 ml	**Instrument ID**	: PEST11
Extraction Method	: EPA 3510C	**GC Column**	: CLPPesticides
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: N		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
57-74-9	Chlordane	ND	0.143	0.033	U

Results Summary
Form 1
Organochlorine Pesticides by GC

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2410579-06	**Date Collected**	: 02/26/24 16:35
Client ID	: MW-6D	**Date Received**	: 02/27/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 03/02/24 20:05
Sample Matrix	: WATER	**Date Extracted**	: 03/01/24
Analytical Method	: 1,8081B	**Dilution Factor**	: 1
Lab File ID	: 15240302a-23	**Analyst**	: MMG
Sample Amount	: 140 ml	**Instrument ID**	: PEST15
Extraction Method	: EPA 3510C	**GC Column**	: CLPPesticides
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: N		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
319-86-8	Delta-BHC	ND	0.014	0.003	U
58-89-9	Lindane	ND	0.014	0.003	U
319-84-6	Alpha-BHC	ND	0.014	0.003	U
319-85-7	Beta-BHC	ND	0.014	0.004	U
76-44-8	Heptachlor	ND	0.014	0.002	U
309-00-2	Aldrin	ND	0.014	0.002	U
1024-57-3	Heptachlor epoxide	ND	0.014	0.003	U
72-20-8	Endrin	ND	0.029	0.003	U
7421-93-4	Endrin aldehyde	ND	0.029	0.006	U
53494-70-5	Endrin ketone	ND	0.029	0.003	U
60-57-1	Dieldrin	ND	0.029	0.003	U
72-55-9	4,4'-DDE	ND	0.029	0.003	U
72-54-8	4,4'-DDD	ND	0.029	0.003	U
50-29-3	4,4'-DDT	ND	0.029	0.003	U
959-98-8	Endosulfan I	ND	0.014	0.002	U
33213-65-9	Endosulfan II	ND	0.029	0.004	U
1031-07-8	Endosulfan sulfate	ND	0.029	0.003	U
72-43-5	Methoxychlor	ND	0.143	0.005	U
8001-35-2	Toxaphene	ND	0.143	0.045	U
5103-71-9	cis-Chlordane	ND	0.014	0.005	U
5103-74-2	trans-Chlordane	ND	0.014	0.004	U

Results Summary
Form 1
Organochlorine Pesticides by GC

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2410579-06	**Date Collected**	: 02/26/24 16:35
Client ID	: MW-6D	**Date Received**	: 02/27/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 03/02/24 20:05
Sample Matrix	: WATER	**Date Extracted**	: 03/01/24
Analytical Method	: 1,8081B	**Dilution Factor**	: 1
Lab File ID	: 15240302a-23	**Analyst**	: MMG
Sample Amount	: 140 ml	**Instrument ID**	: PEST15
Extraction Method	: EPA 3510C	**GC Column**	: CLPPesticides
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: N		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
57-74-9	Chlordane	ND	0.143	0.033	U

Results Summary
Form 1
Organochlorine Pesticides by GC

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2410579-07	**Date Collected**	: 02/26/24 14:45
Client ID	: MW-7S	**Date Received**	: 02/27/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 03/02/24 20:16
Sample Matrix	: WATER	**Date Extracted**	: 03/01/24
Analytical Method	: 1,8081B	**Dilution Factor**	: 1
Lab File ID	: 15240302a-24	**Analyst**	: MMG
Sample Amount	: 140 ml	**Instrument ID**	: PEST15
Extraction Method	: EPA 3510C	**GC Column**	: CLPPesticides
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: N		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
319-86-8	Delta-BHC	ND	0.014	0.003	U
58-89-9	Lindane	ND	0.014	0.003	U
319-84-6	Alpha-BHC	ND	0.014	0.003	U
319-85-7	Beta-BHC	ND	0.014	0.004	U
76-44-8	Heptachlor	ND	0.014	0.002	U
309-00-2	Aldrin	ND	0.014	0.002	U
1024-57-3	Heptachlor epoxide	ND	0.014	0.003	U
72-20-8	Endrin	ND	0.029	0.003	U
7421-93-4	Endrin aldehyde	ND	0.029	0.006	U
53494-70-5	Endrin ketone	ND	0.029	0.003	U
60-57-1	Dieldrin	ND	0.029	0.003	U
72-55-9	4,4'-DDE	ND	0.029	0.003	U
72-54-8	4,4'-DDD	ND	0.029	0.003	U
50-29-3	4,4'-DDT	ND	0.029	0.003	U
959-98-8	Endosulfan I	ND	0.014	0.002	U
33213-65-9	Endosulfan II	ND	0.029	0.004	U
1031-07-8	Endosulfan sulfate	ND	0.029	0.003	U
72-43-5	Methoxychlor	ND	0.143	0.005	U
8001-35-2	Toxaphene	ND	0.143	0.045	U
5103-71-9	cis-Chlordane	ND	0.014	0.005	U
5103-74-2	trans-Chlordane	ND	0.014	0.004	U

Results Summary
Form 1
Organochlorine Pesticides by GC

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2410579-07	**Date Collected**	: 02/26/24 14:45
Client ID	: MW-7S	**Date Received**	: 02/27/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 03/02/24 20:16
Sample Matrix	: WATER	**Date Extracted**	: 03/01/24
Analytical Method	: 1,8081B	**Dilution Factor**	: 1
Lab File ID	: 15240302a-24	**Analyst**	: MMG
Sample Amount	: 140 ml	**Instrument ID**	: PEST15
Extraction Method	: EPA 3510C	**GC Column**	: CLPPesticides
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: N		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
57-74-9	Chlordane	ND	0.143	0.033	U

Results Summary
Form 1
Organochlorine Pesticides by GC

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2410579-08	**Date Collected**	: 02/27/24 10:25
Client ID	: MW-8S	**Date Received**	: 02/27/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 03/05/24 09:51
Sample Matrix	: WATER	**Date Extracted**	: 03/05/24
Analytical Method	: 1,8081B	**Dilution Factor**	: 1
Lab File ID	: 11240305a-13	**Analyst**	: MMG
Sample Amount	: 140 ml	**Instrument ID**	: PEST11
Extraction Method	: EPA 3510C	**GC Column**	: CLPPesticides
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: N		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
319-86-8	Delta-BHC	ND	0.014	0.003	U
58-89-9	Lindane	ND	0.014	0.003	U
319-84-6	Alpha-BHC	ND	0.014	0.003	U
319-85-7	Beta-BHC	ND	0.014	0.004	U
76-44-8	Heptachlor	ND	0.014	0.002	U
309-00-2	Aldrin	ND	0.014	0.002	U
1024-57-3	Heptachlor epoxide	ND	0.014	0.003	U
72-20-8	Endrin	ND	0.029	0.003	U
7421-93-4	Endrin aldehyde	ND	0.029	0.006	U
53494-70-5	Endrin ketone	ND	0.029	0.003	U
60-57-1	Dieldrin	ND	0.029	0.003	U
72-55-9	4,4'-DDE	ND	0.029	0.003	U
72-54-8	4,4'-DDD	ND	0.029	0.003	U
50-29-3	4,4'-DDT	ND	0.029	0.003	U
959-98-8	Endosulfan I	ND	0.014	0.002	U
33213-65-9	Endosulfan II	ND	0.029	0.004	U
1031-07-8	Endosulfan sulfate	ND	0.029	0.003	U
72-43-5	Methoxychlor	ND	0.143	0.005	U
8001-35-2	Toxaphene	ND	0.143	0.045	U
5103-71-9	cis-Chlordane	ND	0.014	0.005	U
5103-74-2	trans-Chlordane	ND	0.014	0.004	U

Results Summary
Form 1
Organochlorine Pesticides by GC

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2410579-08	**Date Collected**	: 02/27/24 10:25
Client ID	: MW-8S	**Date Received**	: 02/27/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 03/05/24 09:51
Sample Matrix	: WATER	**Date Extracted**	: 03/05/24
Analytical Method	: 1,8081B	**Dilution Factor**	: 1
Lab File ID	: 11240305a-13	**Analyst**	: MMG
Sample Amount	: 140 ml	**Instrument ID**	: PEST11
Extraction Method	: EPA 3510C	**GC Column**	: CLPPesticides
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: N		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
57-74-9	Chlordane	ND	0.143	0.033	U

Results Summary
Form 1
Organochlorine Pesticides by GC

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2410579-09	**Date Collected**	: 02/26/24 00:00
Client ID	: DUP	**Date Received**	: 02/27/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 03/02/24 16:19
Sample Matrix	: WATER	**Date Extracted**	: 03/01/24
Analytical Method	: 1,8081B	**Dilution Factor**	: 1
Lab File ID	: 20240302a-26	**Analyst**	: JAG
Sample Amount	: 140 ml	**Instrument ID**	: PEST20
Extraction Method	: EPA 3510C	**GC Column**	: CLPPesticides
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: N		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
319-86-8	Delta-BHC	ND	0.014	0.003	U
58-89-9	Lindane	ND	0.014	0.003	U
319-84-6	Alpha-BHC	ND	0.014	0.003	U
319-85-7	Beta-BHC	ND	0.014	0.004	U
76-44-8	Heptachlor	ND	0.014	0.002	U
309-00-2	Aldrin	ND	0.014	0.002	U
1024-57-3	Heptachlor epoxide	ND	0.014	0.003	U
72-20-8	Endrin	ND	0.029	0.003	U
7421-93-4	Endrin aldehyde	ND	0.029	0.006	U
53494-70-5	Endrin ketone	ND	0.029	0.003	U
60-57-1	Dieldrin	ND	0.029	0.003	U
72-55-9	4,4'-DDE	ND	0.029	0.003	U
72-54-8	4,4'-DDD	ND	0.029	0.003	U
50-29-3	4,4'-DDT	ND	0.029	0.003	U
959-98-8	Endosulfan I	ND	0.014	0.002	U
33213-65-9	Endosulfan II	ND	0.029	0.004	U
1031-07-8	Endosulfan sulfate	ND	0.029	0.003	U
72-43-5	Methoxychlor	ND	0.143	0.005	U
8001-35-2	Toxaphene	ND	0.143	0.045	U
5103-71-9	cis-Chlordane	ND	0.014	0.005	U
5103-74-2	trans-Chlordane	ND	0.014	0.004	U

Results Summary
Form 1
Organochlorine Pesticides by GC

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2410579-09	**Date Collected**	: 02/26/24 00:00
Client ID	: DUP	**Date Received**	: 02/27/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 03/02/24 16:19
Sample Matrix	: WATER	**Date Extracted**	: 03/01/24
Analytical Method	: 1,8081B	**Dilution Factor**	: 1
Lab File ID	: 20240302a-26	**Analyst**	: JAG
Sample Amount	: 140 ml	**Instrument ID**	: PEST20
Extraction Method	: EPA 3510C	**GC Column**	: CLPPesticides
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: N		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
57-74-9	Chlordane	ND	0.143	0.033	U

Results Summary
Form 1
Organochlorine Pesticides by GC

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2410579-10	**Date Collected**	: 02/27/24 09:15
Client ID	: EB	**Date Received**	: 02/27/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 03/05/24 12:34
Sample Matrix	: WATER	**Date Extracted**	: 03/05/24
Analytical Method	: 1,8081B	**Dilution Factor**	: 1
Lab File ID	: 11240305a-18	**Analyst**	: MMG
Sample Amount	: 140 ml	**Instrument ID**	: PEST11
Extraction Method	: EPA 3510C	**GC Column**	: CLPPesticides
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: N		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
319-86-8	Delta-BHC	ND	0.014	0.003	U
58-89-9	Lindane	ND	0.014	0.003	U
319-84-6	Alpha-BHC	ND	0.014	0.003	U
319-85-7	Beta-BHC	ND	0.014	0.004	U
76-44-8	Heptachlor	ND	0.014	0.002	U
309-00-2	Aldrin	ND	0.014	0.002	U
1024-57-3	Heptachlor epoxide	ND	0.014	0.003	U
72-20-8	Endrin	ND	0.029	0.003	U
7421-93-4	Endrin aldehyde	ND	0.029	0.006	U
53494-70-5	Endrin ketone	ND	0.029	0.003	U
60-57-1	Dieldrin	ND	0.029	0.003	U
72-55-9	4,4'-DDE	ND	0.029	0.003	U
72-54-8	4,4'-DDD	ND	0.029	0.003	U
50-29-3	4,4'-DDT	ND	0.029	0.003	U
959-98-8	Endosulfan I	ND	0.014	0.002	U
33213-65-9	Endosulfan II	ND	0.029	0.004	U
1031-07-8	Endosulfan sulfate	ND	0.029	0.003	U
72-43-5	Methoxychlor	ND	0.143	0.005	U
8001-35-2	Toxaphene	ND	0.143	0.045	U
5103-71-9	cis-Chlordane	ND	0.014	0.005	U
5103-74-2	trans-Chlordane	ND	0.014	0.004	U

Results Summary
Form 1
Organochlorine Pesticides by GC

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2410579-10	**Date Collected**	: 02/27/24 09:15
Client ID	: EB	**Date Received**	: 02/27/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 03/05/24 12:34
Sample Matrix	: WATER	**Date Extracted**	: 03/05/24
Analytical Method	: 1,8081B	**Dilution Factor**	: 1
Lab File ID	: 11240305a-18	**Analyst**	: MMG
Sample Amount	: 140 ml	**Instrument ID**	: PEST11
Extraction Method	: EPA 3510C	**GC Column**	: CLPPesticides
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: N		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
57-74-9	Chlordane	ND	0.143	0.033	U

Results Summary
Form 1
Organochlorine Pesticides by GC

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: WG1891324-1	**Date Collected**	: NA
Client ID	: WG1891324-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 03/02/24 15:42
Sample Matrix	: WATER	**Date Extracted**	: 03/01/24
Analytical Method	: 1,8081B	**Dilution Factor**	: 1
Lab File ID	: 20240302a-23	**Analyst**	: JAG
Sample Amount	: 140 ml	**Instrument ID**	: PEST20
Extraction Method	: EPA 3510C	**GC Column**	: CLPPesticides
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: N		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
319-86-8	Delta-BHC	ND	0.014	0.003	U
58-89-9	Lindane	ND	0.014	0.003	U
319-84-6	Alpha-BHC	ND	0.014	0.003	U
319-85-7	Beta-BHC	ND	0.014	0.004	U
76-44-8	Heptachlor	ND	0.014	0.002	U
309-00-2	Aldrin	ND	0.014	0.002	U
1024-57-3	Heptachlor epoxide	ND	0.014	0.003	U
72-20-8	Endrin	ND	0.029	0.003	U
7421-93-4	Endrin aldehyde	ND	0.029	0.006	U
53494-70-5	Endrin ketone	ND	0.029	0.003	U
60-57-1	Dieldrin	ND	0.029	0.003	U
72-55-9	4,4'-DDE	ND	0.029	0.003	U
72-54-8	4,4'-DDD	ND	0.029	0.003	U
50-29-3	4,4'-DDT	ND	0.029	0.003	U
959-98-8	Endosulfan I	ND	0.014	0.002	U
33213-65-9	Endosulfan II	ND	0.029	0.004	U
1031-07-8	Endosulfan sulfate	ND	0.029	0.003	U
72-43-5	Methoxychlor	ND	0.143	0.005	U
8001-35-2	Toxaphene	ND	0.143	0.045	U
5103-71-9	cis-Chlordane	ND	0.014	0.005	U
5103-74-2	trans-Chlordane	ND	0.014	0.004	U

Results Summary
Form 1
Organochlorine Pesticides by GC

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: WG1891324-1	**Date Collected**	: NA
Client ID	: WG1891324-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 03/02/24 15:42
Sample Matrix	: WATER	**Date Extracted**	: 03/01/24
Analytical Method	: 1,8081B	**Dilution Factor**	: 1
Lab File ID	: 20240302a-23	**Analyst**	: JAG
Sample Amount	: 140 ml	**Instrument ID**	: PEST20
Extraction Method	: EPA 3510C	**GC Column**	: CLPPesticides
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: N		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
57-74-9	Chlordane	ND	0.143	0.033	U

Results Summary
Form 1
Organochlorine Pesticides by GC

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: WG1892124-1	**Date Collected**	: NA
Client ID	: WG1892124-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 03/05/24 08:39
Sample Matrix	: WATER	**Date Extracted**	: 03/05/24
Analytical Method	: 1,8081B	**Dilution Factor**	: 1
Lab File ID	: 11240305a-07	**Analyst**	: MMG
Sample Amount	: 140 ml	**Instrument ID**	: PEST11
Extraction Method	: EPA 3510C	**GC Column**	: CLPPesticides
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: N		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
319-86-8	Delta-BHC	ND	0.014	0.003	U
58-89-9	Lindane	ND	0.014	0.003	U
319-84-6	Alpha-BHC	ND	0.014	0.003	U
319-85-7	Beta-BHC	ND	0.014	0.004	U
76-44-8	Heptachlor	ND	0.014	0.002	U
309-00-2	Aldrin	ND	0.014	0.002	U
1024-57-3	Heptachlor epoxide	ND	0.014	0.003	U
72-20-8	Endrin	ND	0.029	0.003	U
7421-93-4	Endrin aldehyde	ND	0.029	0.006	U
53494-70-5	Endrin ketone	ND	0.029	0.003	U
60-57-1	Dieldrin	ND	0.029	0.003	U
72-55-9	4,4'-DDE	ND	0.029	0.003	U
72-54-8	4,4'-DDD	ND	0.029	0.003	U
50-29-3	4,4'-DDT	ND	0.029	0.003	U
959-98-8	Endosulfan I	ND	0.014	0.002	U
33213-65-9	Endosulfan II	ND	0.029	0.004	U
1031-07-8	Endosulfan sulfate	ND	0.029	0.003	U
72-43-5	Methoxychlor	ND	0.143	0.005	U
8001-35-2	Toxaphene	ND	0.143	0.045	U
5103-71-9	cis-Chlordane	ND	0.014	0.005	U
5103-74-2	trans-Chlordane	ND	0.014	0.004	U

Results Summary
Form 1
Organochlorine Pesticides by GC

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: WG1892124-1	**Date Collected**	: NA
Client ID	: WG1892124-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 03/05/24 08:39
Sample Matrix	: WATER	**Date Extracted**	: 03/05/24
Analytical Method	: 1,8081B	**Dilution Factor**	: 1
Lab File ID	: 11240305a-07	**Analyst**	: MMG
Sample Amount	: 140 ml	**Instrument ID**	: PEST11
Extraction Method	: EPA 3510C	**GC Column**	: CLPPesticides
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: N		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
57-74-9	Chlordane	ND	0.143	0.033	U

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest20\2024\240302a\
Data File : 20240302a-26.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 02 Mar 2024 04:19 pm
Operator : pest20:jag
Sample : L2410579-09,42,,
Misc : wg1891472,WG1891324,ical20686
ALS Vial : 26 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Mar 02 17:10:59 2024
Quant Method : I:\PEST\Pest20\2024\240302a\pest20_2023_12_15_ugL_ICAL20686.m
Quant Title : pest
QLast Update : Sat Mar 02 08:11:36 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest20\2024\240302a\20240302a-03.D
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards							
1) i	1-br-2-nb_Pe	1.764	1.923	54863766	57105014	25.000M4	25.000M4
	Standard Area 1 : #1 = 54033745				Recovery = 101.54%		
	Standard Area 1 : #2 = 56427660				Recovery = 101.20%		
28) i	1-br-2-nb_Ch	1.764	1.923	54863766	57105014	25.000M4	25.000M4
33) i	1-br-2-nb_To	1.764	1.923	54863766	57105014	25.000M4	25.000M4
System Monitoring Compounds							
2) s	2,4,5,6-Tetr	2.211	2.518	74407454	78511030	29.943M4	28.158M4
	Spiked Amount 50.000		Range 30 - 150		Recovery = 59.89%		56.32%
27) s	Decachlorobi	7.062	7.776	78641473	67203500	36.116M4	32.091M4
	Spiked Amount 50.000		Range 30 - 150		Recovery = 72.23%		64.18%
Target Compounds							
4)	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6)	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8)	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9)	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
12)	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13)	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14)	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17)	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest20\2024\240302a\
Data File : 20240302a-26.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 02 Mar 2024 04:19 pm
Operator : pest20:jag
Sample : L2410579-09,42,,
Misc : wg1891472,WG1891324,ical20686
ALS Vial : 26 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Mar 02 17:10:59 2024
Quant Method : I:\PEST\Pest20\2024\240302a\pest20_2023_12_15_ugL_ICAL20686.m
Quant Title : pest
QLast Update : Sat Mar 02 08:11:36 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest20\2024\240302a\20240302a-03.D
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
18)	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22)	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d
23)	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
25)	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26)	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum chlordane-1			0	0	N.D.	N.D.
	Average chlordane-1					0.000	0.000
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum toxaphene-1			0	0	N.D.	N.D.
	Average toxaphene-1					0.000	0.000
	SemiQuant Compounds - Not Calibrated on this Instrument						
	Sum toxaphene-1			0	0	N.D.	N.D.
	Average toxaphene-1					0.000	0.000

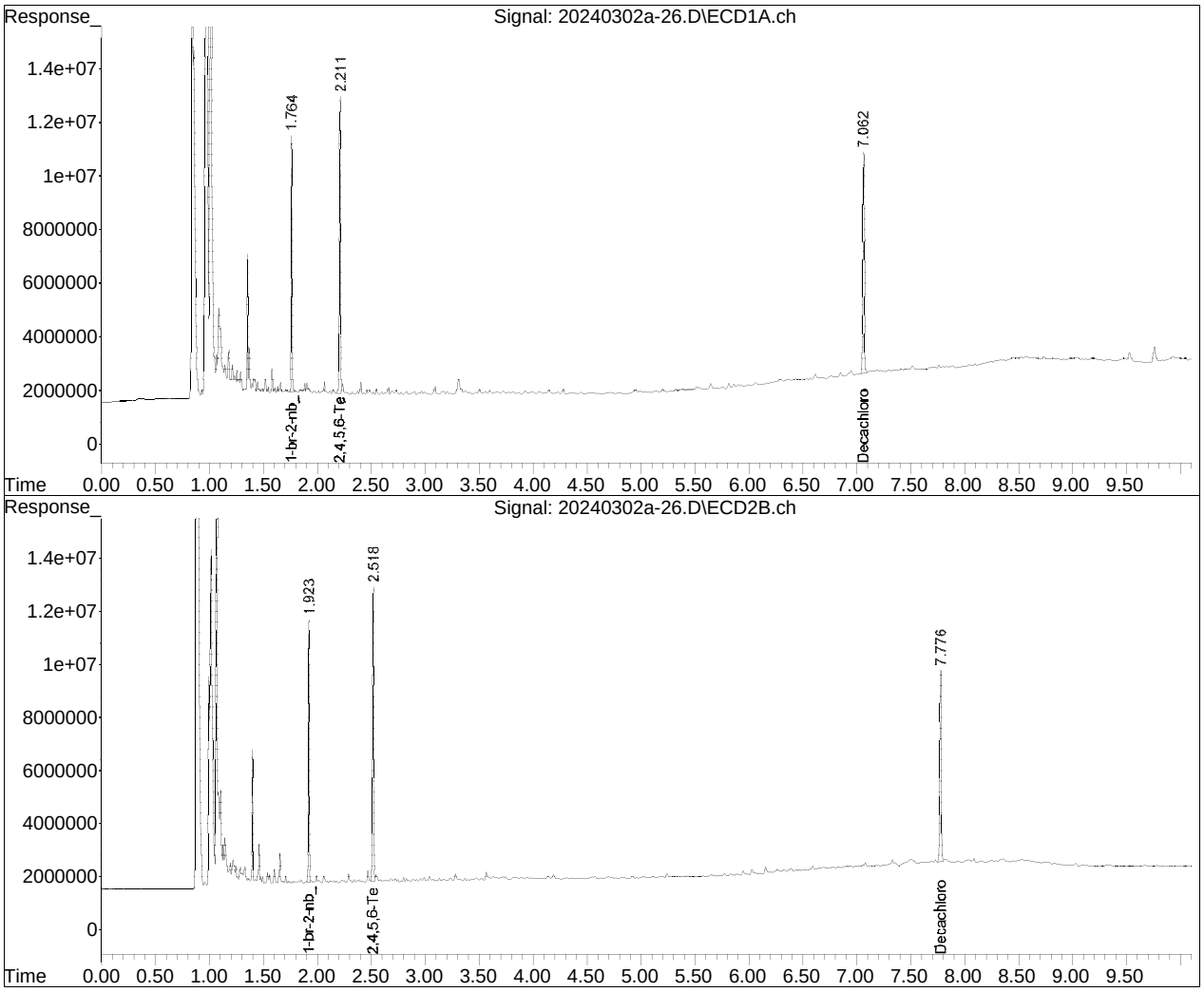
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listeda\20240302a-03.D••

Data Path : I:\PEST\Pest20\2024\240302a\
Data File : 20240302a-26.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 02 Mar 2024 04:19 pm
Operator : pest20:jag
Sample : L2410579-09,42,,
Misc : wg1891472,WG1891324,ical20686
ALS Vial : 26 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Mar 02 17:10:59 2024
Quant Method : I:\PEST\Pest20\2024\240302a\pest20_2023_12_15_ugL_ICAL20686.m
Quant Title : pest
QLast Update : Sat Mar 02 08:11:36 2024
Response via : Initial Calibration
Integrator: ChemStation

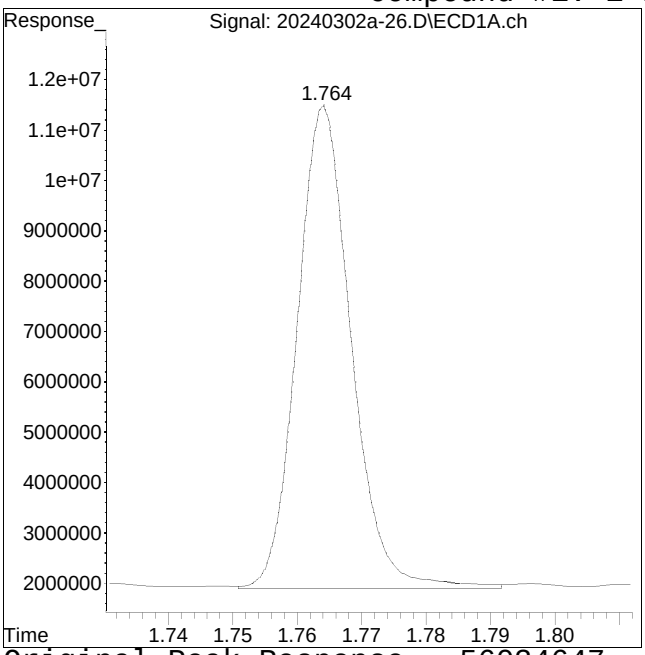
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

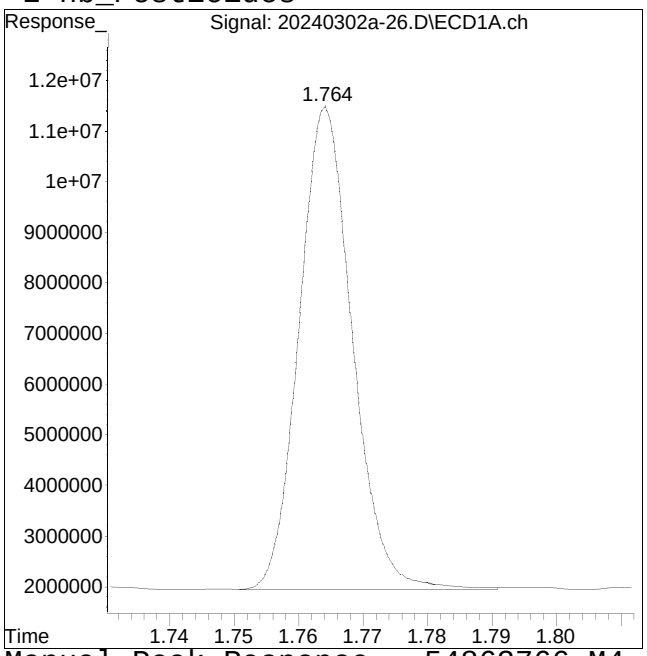


Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240302QMethod : pest20_2023_12_15_ugL_IC
Data File : 20240302a-26.D Operator : pest20:jag
Date Inj'd : 3/2/2024 4:19 pm Instrument : PEST 20
Sample : L2410579-09,42,, Quant Date : 3/2/2024 4:32 pm

Compound #1: 1-br-2-nb_Pesticides



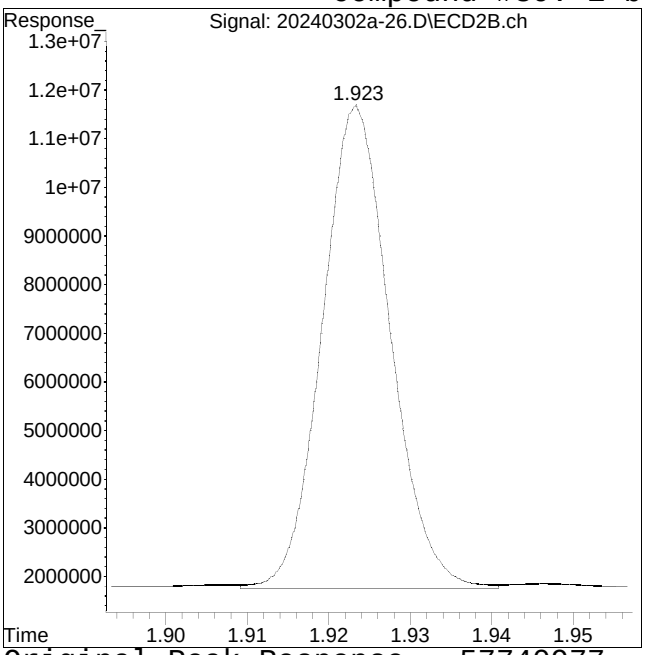


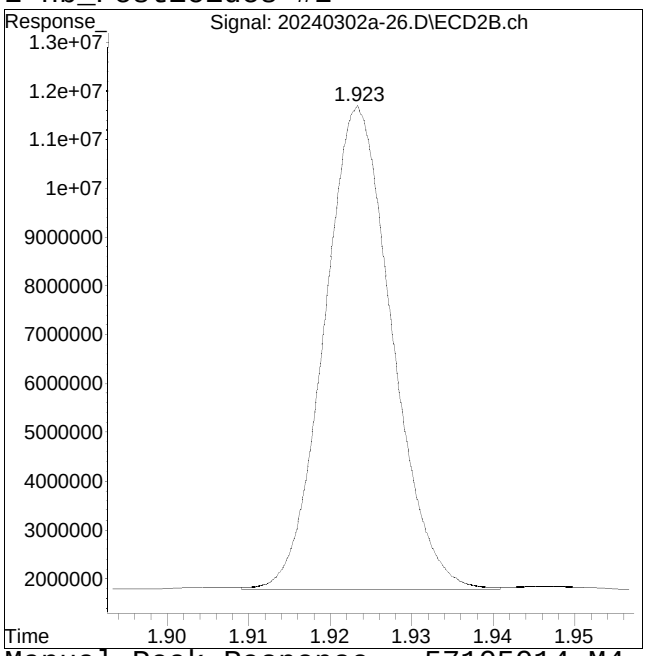
Original Peak Response = 56034647 Manual Peak Response = 54863766 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240302QMethod : pest20_2023_12_15_ugL_IC
Data File : 20240302a-26.D Operator : pest20:jag
Date Inj'd : 3/2/2024 4:19 pm Instrument : PEST 20
Sample : L2410579-09,42,, Quant Date : 3/2/2024 4:32 pm

Compound #39: 1-br-2-nb_Pesticides #2



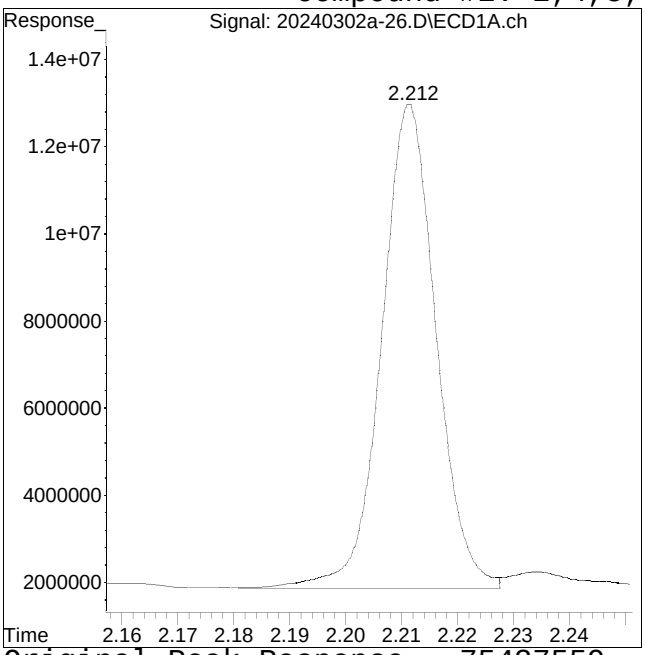


Original Peak Response = 57740977 Manual Peak Response = 57105014 M4
M4 = Poor automated baseline construction.

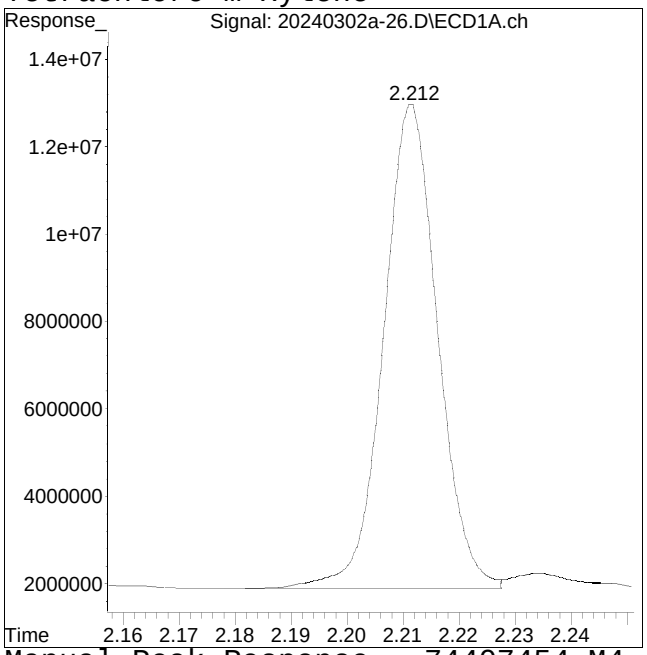
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240302QMethod : pest20_2023_12_15_ugL_IC
Data File : 20240302a-26.D Operator : pest20:jag
Date Inj'd : 3/2/2024 4:19 pm Instrument : PEST 20
Sample : L2410579-09,42,, Quant Date : 3/2/2024 4:32 pm

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



Original Peak Response = 75437559



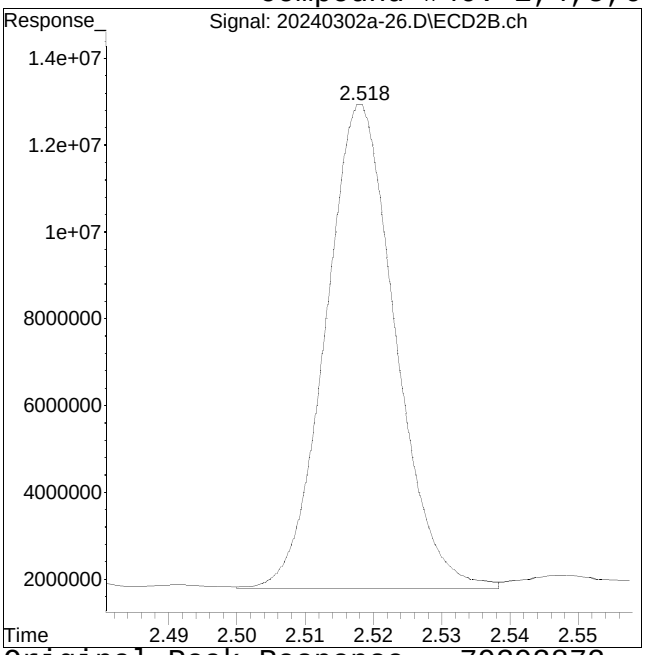
Manual Peak Response = 74407454 M4

M4 = Poor automated baseline construction.

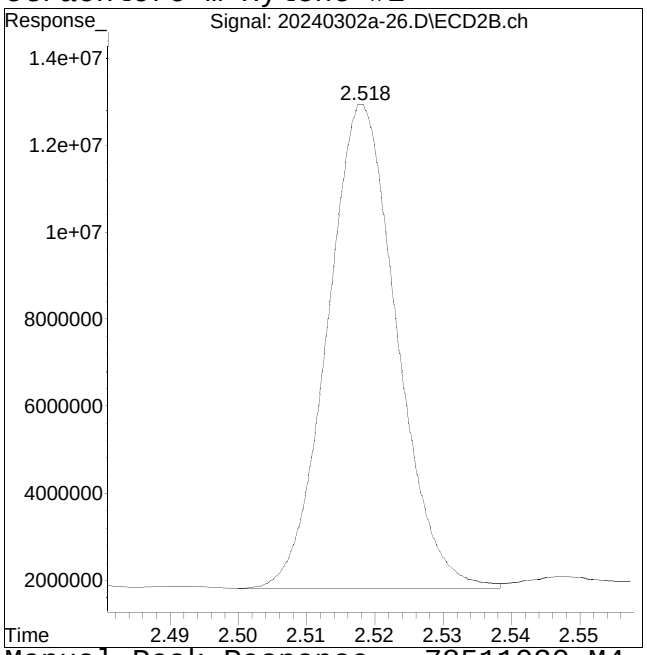
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240302QMethod : pest20_2023_12_15_ugL_IC
Data File : 20240302a-26.D Operator : pest20:jag
Date Inj'd : 3/2/2024 4:19 pm Instrument : PEST 20
Sample : L2410579-09,42,, Quant Date : 3/2/2024 4:32 pm

Compound #40: 2,4,5,6-Tetrachloro-m-xylene #2



Original Peak Response = 79393872



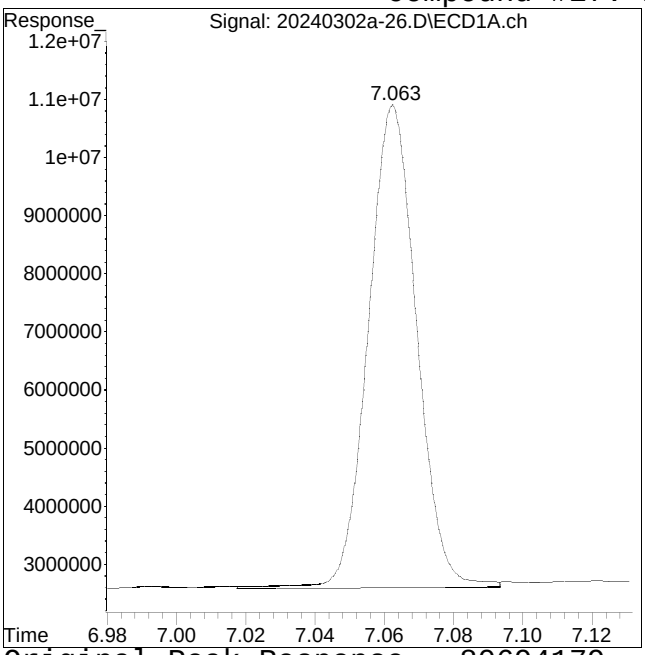
Manual Peak Response = 78511030 M4

M4 = Poor automated baseline construction.

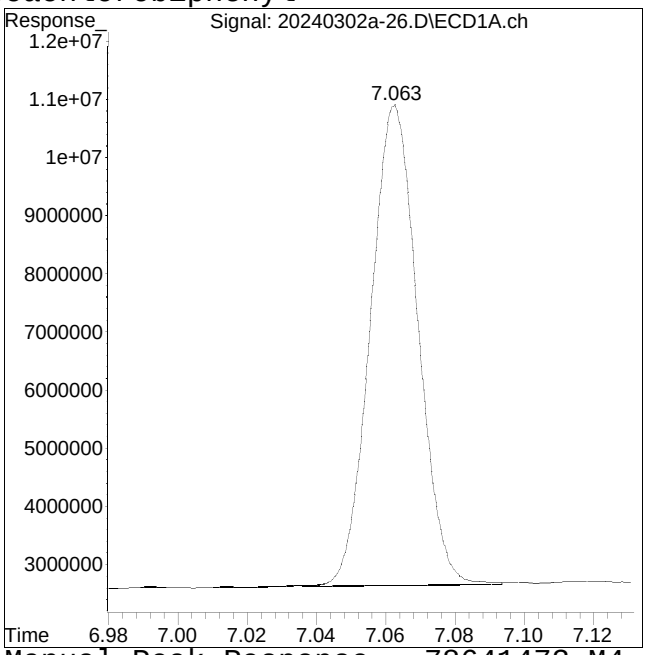
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240302QMethod : pest20_2023_12_15_ugL_IC
Data File : 20240302a-26.D Operator : pest20:jag
Date Inj'd : 3/2/2024 4:19 pm Instrument : PEST 20
Sample : L2410579-09,42,, Quant Date : 3/2/2024 4:32 pm

Compound #27: Decachlorobiphenyl



Original Peak Response = 80694179



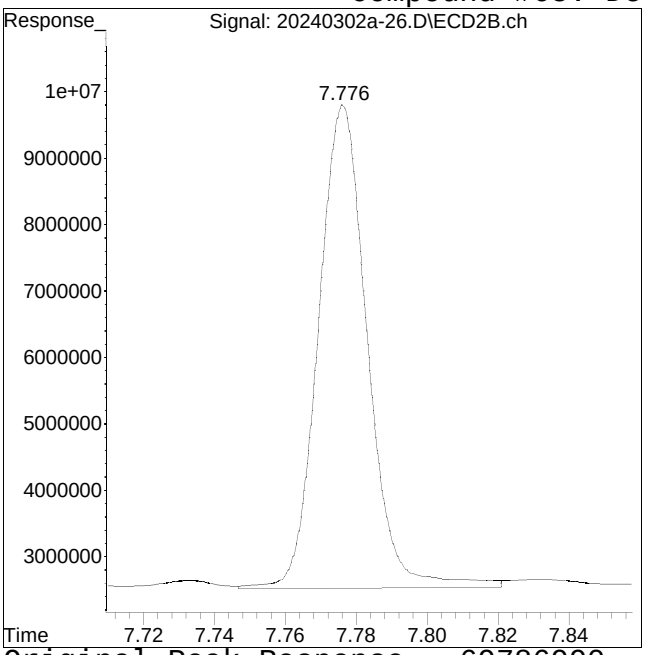
Manual Peak Response = 78641473 M4

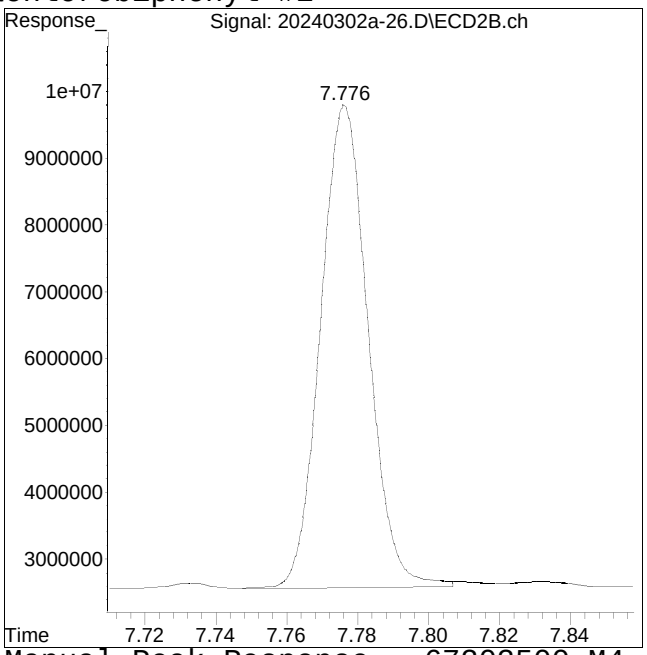
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240302QMethod : pest20_2023_12_15_ugL_IC
Data File : 20240302a-26.D Operator : pest20:jag
Date Inj'd : 3/2/2024 4:19 pm Instrument : PEST 20
Sample : L2410579-09,42,, Quant Date : 3/2/2024 4:32 pm

Compound #65: Decachlorobiphenyl #2



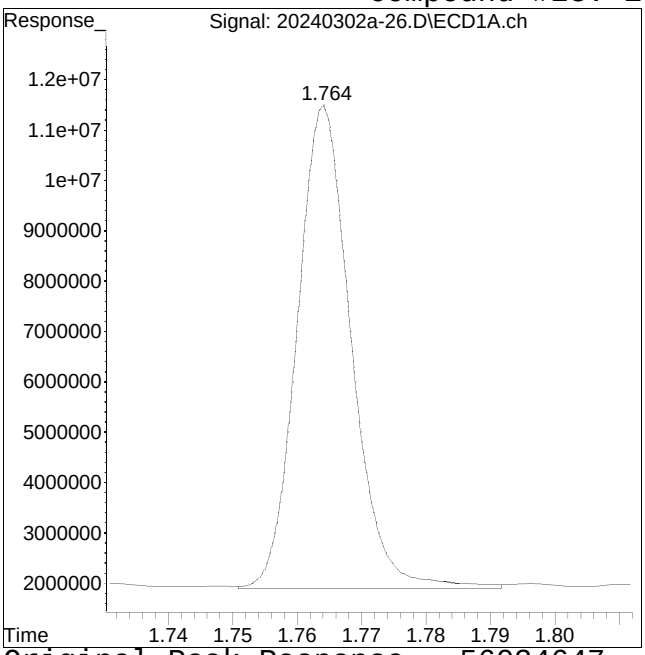


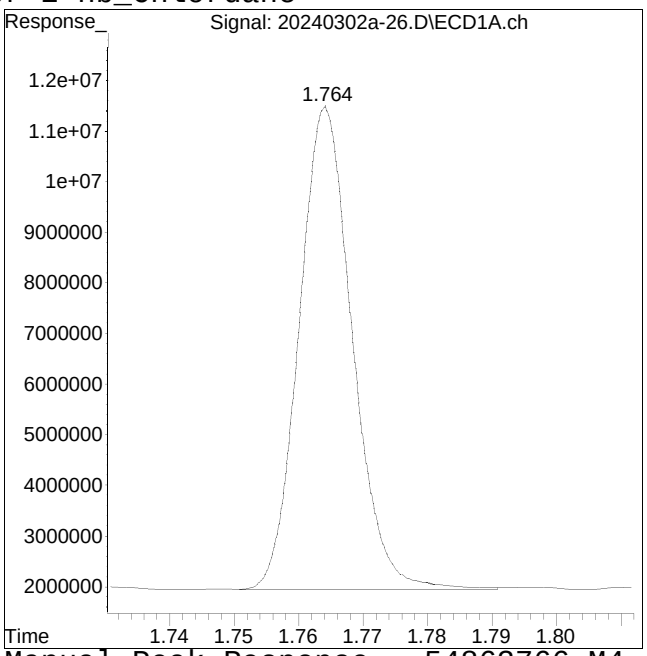
Original Peak Response = 69786990 Manual Peak Response = 67203500 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240302QMethod : pest20_2023_12_15_ugL_IC
Data File : 20240302a-26.D Operator : pest20:jag
Date Inj'd : 3/2/2024 4:19 pm Instrument : PEST 20
Sample : L2410579-09,42,, Quant Date : 3/2/2024 4:32 pm

Compound #28: 1-br-2-nb_Chlordane



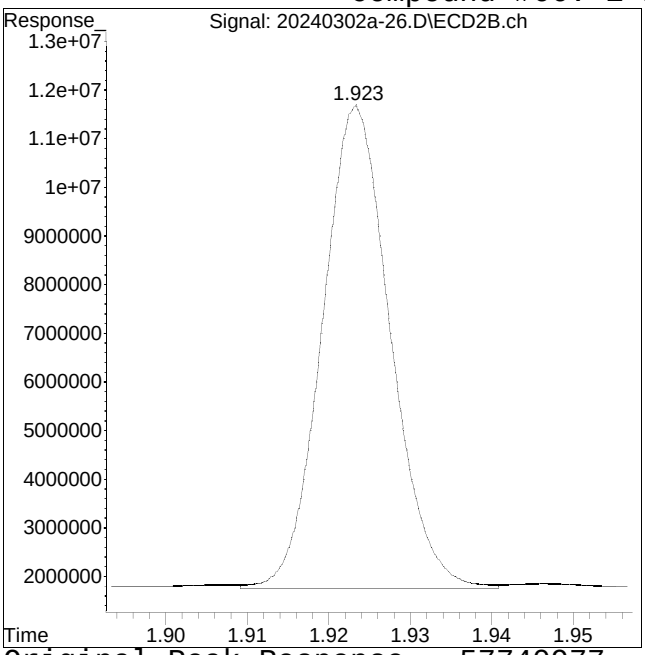


Original Peak Response = 56034647 Manual Peak Response = 54863766 M4
M4 = Poor automated baseline construction.

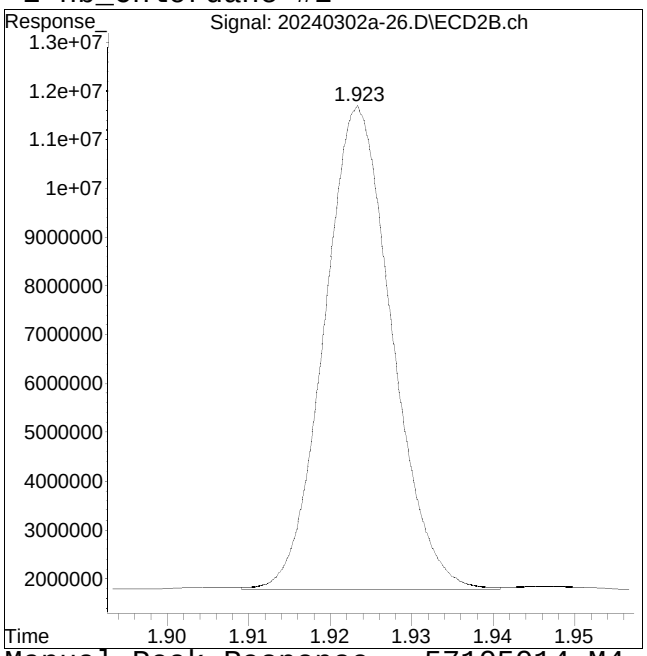
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240302QMethod : pest20_2023_12_15_ugL_IC
Data File : 20240302a-26.D Operator : pest20:jag
Date Inj'd : 3/2/2024 4:19 pm Instrument : PEST 20
Sample : L2410579-09,42,, Quant Date : 3/2/2024 4:32 pm

Compound #66: 1-br-2-nb_Chlordane #2



Original Peak Response = 57740977

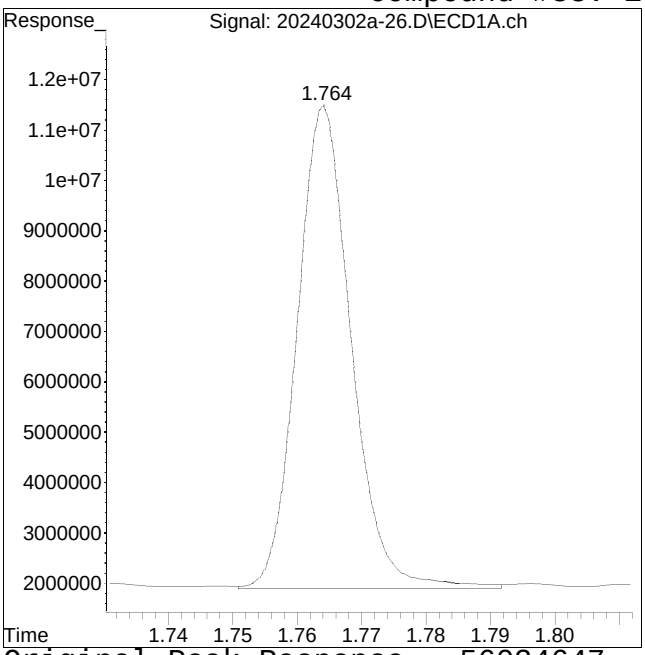


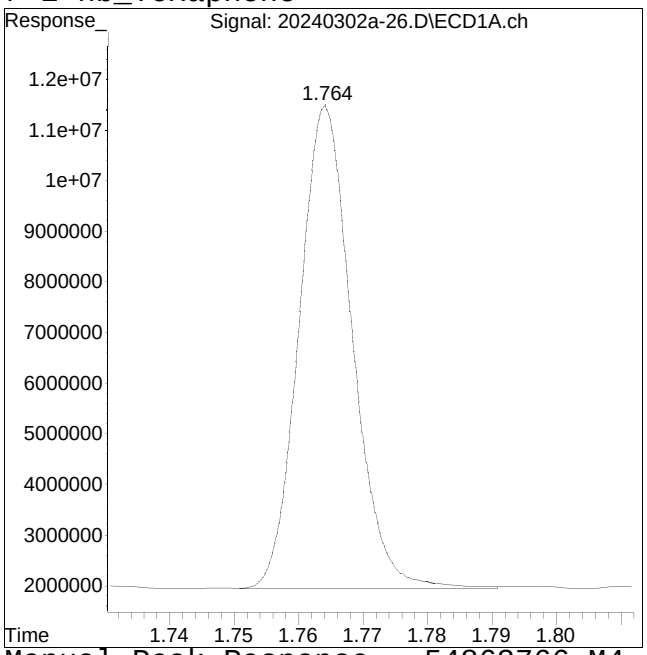
Manual Peak Response = 57105014 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240302QMethod : pest20_2023_12_15_ugL_IC
Data File : 20240302a-26.D Operator : pest20:jag
Date Inj'd : 3/2/2024 4:19 pm Instrument : PEST 20
Sample : L2410579-09,42,, Quant Date : 3/2/2024 4:32 pm

Compound #33: 1-br-2-nb_Toxaphene



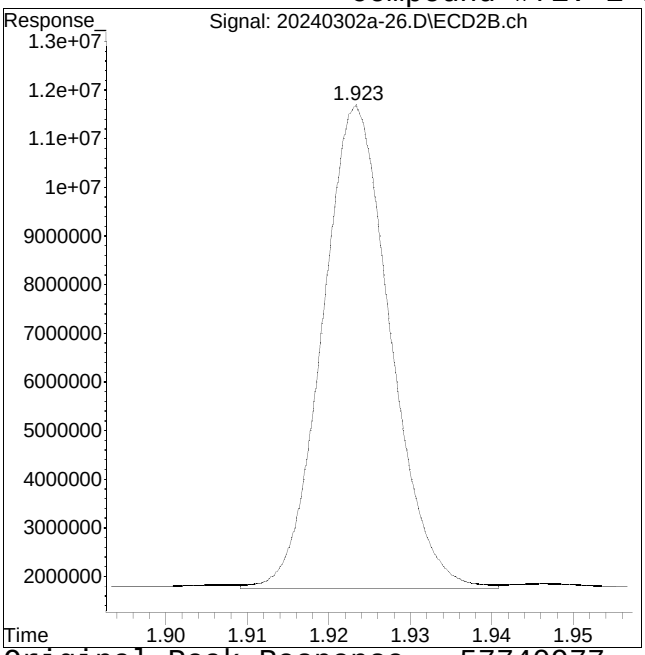


Original Peak Response = 56034647 Manual Peak Response = 54863766 M4
M4 = Poor automated baseline construction.

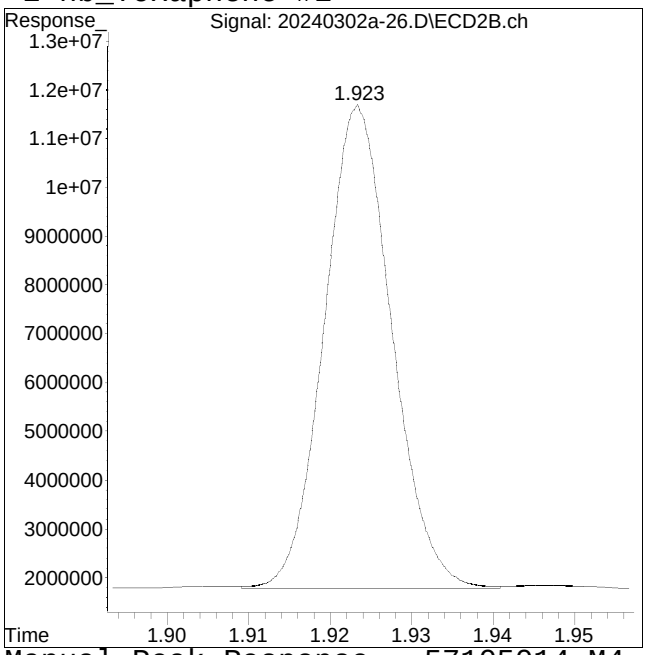
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240302QMethod : pest20_2023_12_15_ugL_IC
Data File : 20240302a-26.D Operator : pest20:jag
Date Inj'd : 3/2/2024 4:19 pm Instrument : PEST 20
Sample : L2410579-09,42,, Quant Date : 3/2/2024 4:32 pm

Compound #71: 1-br-2-nb_Toxaphene #2



Original Peak Response = 57740977



Manual Peak Response = 57105014 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest15\2024\240302A\
Data File : 15240302a-20.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 Mar 2024 7:31 pm
Operator : Pest15:mmg
Sample : L2410579-01,42,,
Misc : wg1891515,WG1891324,ical20776
ALS Vial : 20 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Mar 04 11:41:03 2024
Quant Method : I:\PEST\Pest15\2024\240302A\P15_pest_2024_01_08_ugL_ICAL2077
... 6.m
Quant Title : pest
QLast Update : Sat Mar 02 17:23:07 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest15\2024\240302A\15240302a-03.D
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards							
1) i	1-br-2-nb_Pe	1.204	1.285	116.7E6	97275346	25.000M4	25.000M3
	Standard Area 1 : #1 = 112632209				Recovery = 103.63%		
	Standard Area 1 : #2 = 89452580				Recovery = 108.75%		
28) i	1-br-2-nb_Ch	1.204	1.285	116.7E6	97275346	25.000M4	25.000M3
33) i	1-br-2-nb_To	1.204	1.285	116.7E6	97275346	25.000M4	25.000M3
System Monitoring Compounds							
2) s	2,4,5,6-Tetr	1.570	1.782	170.0E6	128.1E6	34.373M3	29.891M4
	Spiked Amount 50.000	Range 30 - 150		Recovery =	68.75%	59.78%	
27) s	Decachlorobi	6.237	6.880	146.7E6	111.8E6	30.510M4	38.720M4
	Spiked Amount 50.000	Range 30 - 150		Recovery =	61.02%	77.44%	
Target Compounds							
4)	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6)	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8)	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9)	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
12)	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13)	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14)	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest15\2024\240302A\
Data File : 15240302a-20.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 Mar 2024 7:31 pm
Operator : Pest15:mmg
Sample : L2410579-01,42,,
Misc : wg1891515,WG1891324,ical20776
ALS Vial : 20 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Mar 04 11:41:03 2024
Quant Method : I:\PEST\Pest15\2024\240302A\P15_pest_2024_01_08_ugL_ICAL2077
... 6.m
Quant Title : pest
QLast Update : Sat Mar 02 17:23:07 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest15\2024\240302A\15240302a-03.D
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
17)	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18)	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22)	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d
23)	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
25)	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26)	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum chlordane-1			0	0	N.D.	N.D.
	Average chlordane-1					0.000	0.000
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum toxaphene-1			0	0	N.D.	N.D.
	Average toxaphene-1					0.000	0.000
	SemiQuant Compounds - Not Calibrated on this Instrument						
	Sum toxaphene-1			0	0	N.D.	N.D.
	Average toxaphene-1					0.000	0.000

(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Data Path : I:\PEST\Pest15\2024\240302A\
Data File : 15240302a-20.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 Mar 2024 7:31 pm
Operator : Pest15:mmg
Sample : L2410579-01,42,,
Misc : wg1891515,WG1891324,ical20776
ALS Vial : 20 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Mar 04 11:41:03 2024
Quant Method : I:\PEST\Pest15\2024\240302A\P15_pest_2024_01_08_ugL_ICAL2077
... 6.m
Quant Title : pest
QLast Update : Sat Mar 02 17:23:07 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest15\2024\240302A\15240302a-03.D
Sub List : Default - All compounds listed

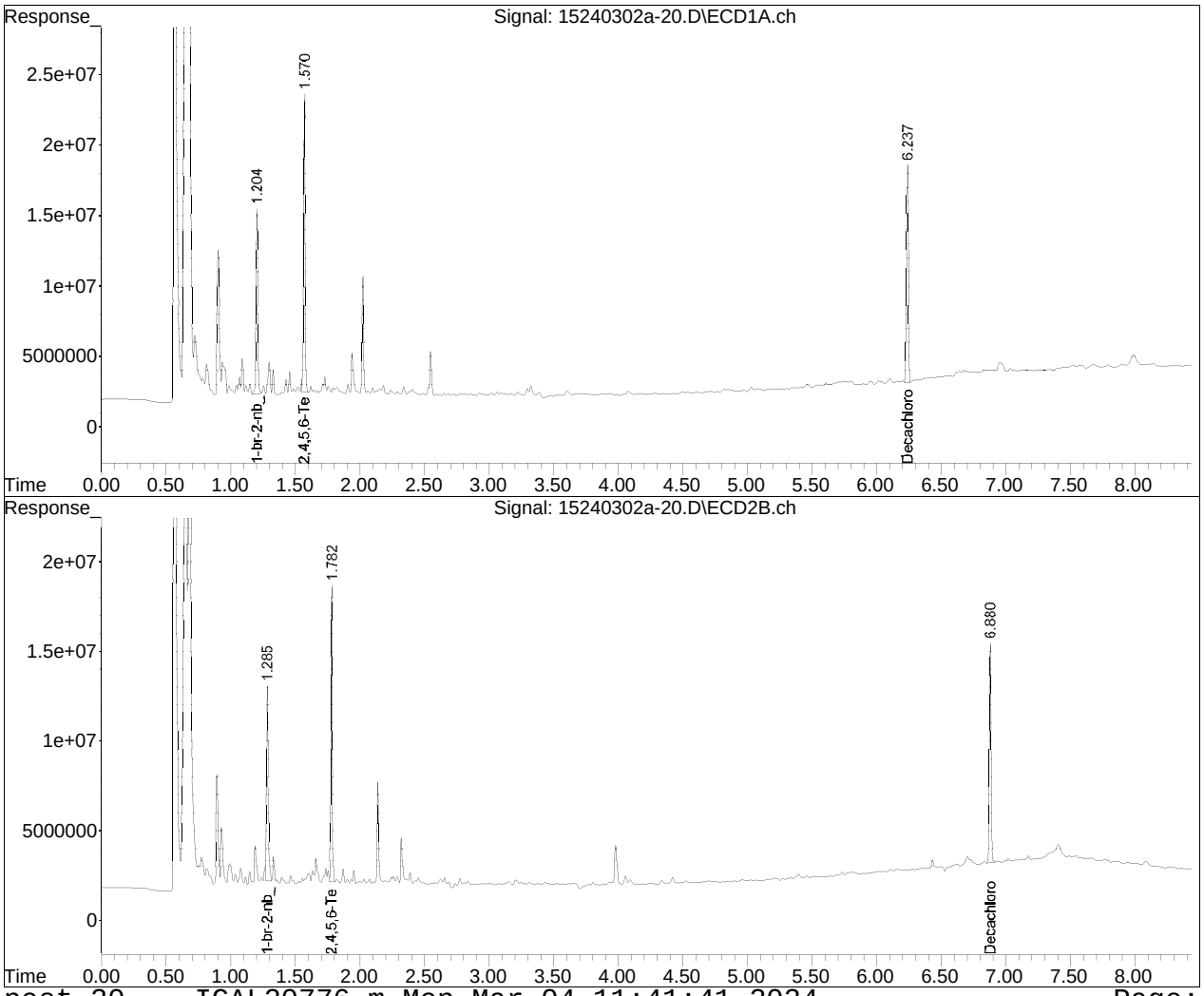
Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l

Sub List : Default - All compounds listedA\15240302a-03.D••

Data Path : I:\PEST\Pest15\2024\240302A\
Data File : 15240302a-20.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 Mar 2024 7:31 pm
Operator : Pest15:mmg
Sample : L2410579-01,42,,
Misc : wg1891515,WG1891324,ical20776
ALS Vial : 20 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Mar 04 11:41:03 2024
Quant Method : I:\PEST\Pest15\2024\240302A\P15_pest_2024_01_08_ugL_ICAL2077
... 6.m
Quant Title : pest
QLast Update : Sat Mar 02 17:23:07 2024
Response via : Initial Calibration
Integrator: ChemStation

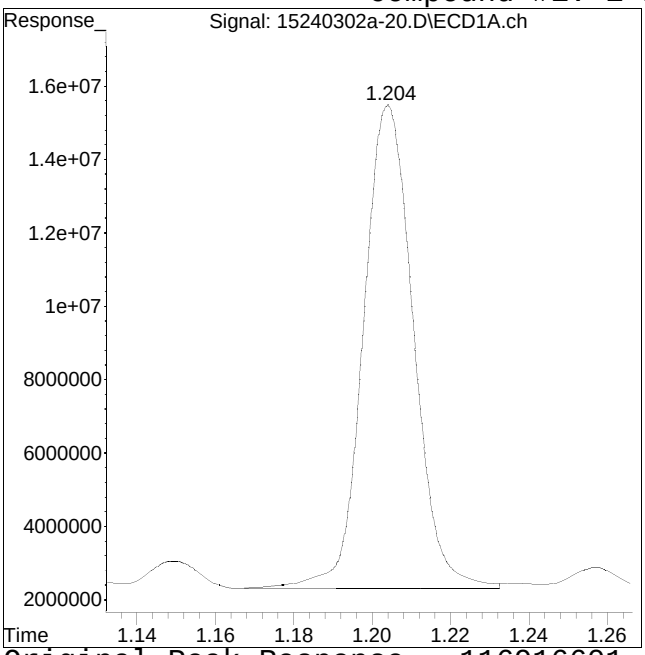
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

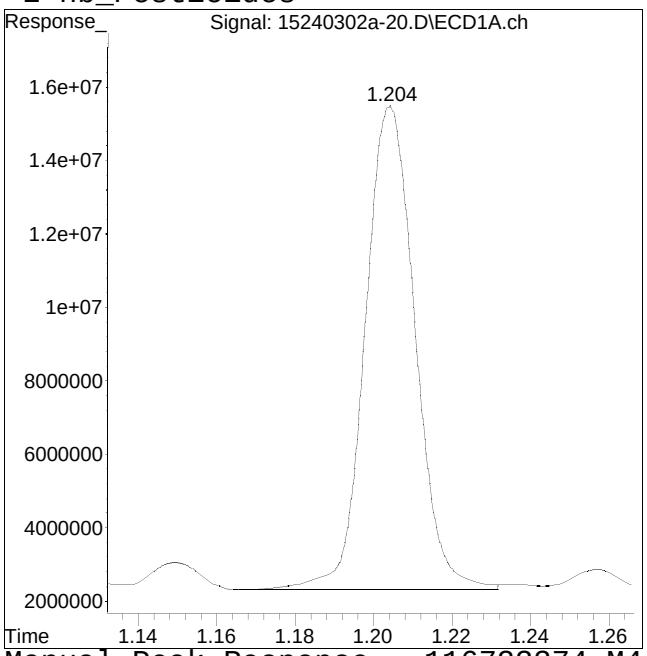


Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240302QMethod : P15_pest_2024_01_08_ugL_
Data File : 15240302a-20.D Operator : Pest15:mmg
Date Inj'd : 3/2/2024 7:31 pm Instrument : Pest 15
Sample : L2410579-01,42,, Quant Date : 3/3/2024 9:20 am

Compound #1: 1-br-2-nb_Pesticides



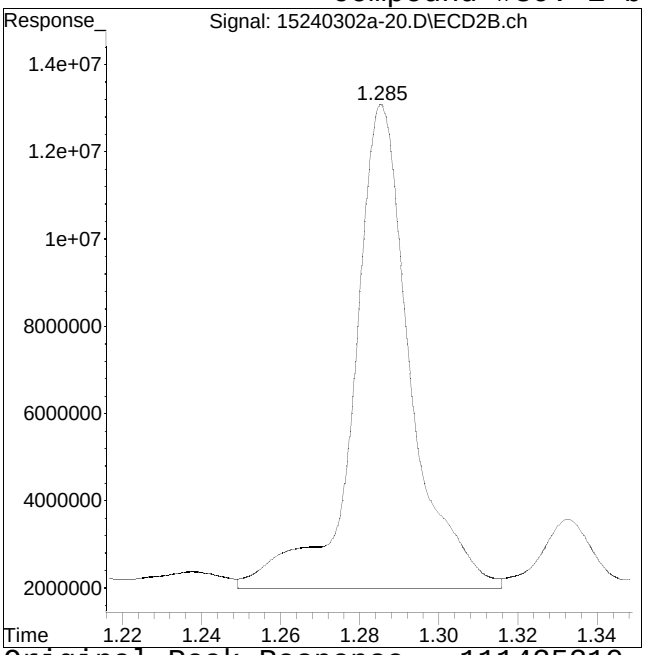


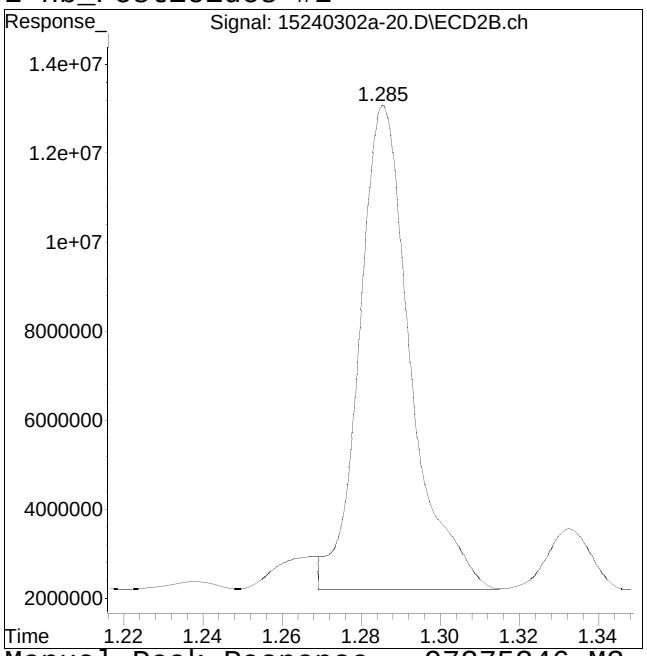
Original Peak Response = 116916601 Manual Peak Response = 116723374 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240302QMethod : P15_pest_2024_01_08_ugL_
Data File : 15240302a-20.D Operator : Pest15:mmg
Date Inj'd : 3/2/2024 7:31 pm Instrument : Pest 15
Sample : L2410579-01,42,, Quant Date : 3/3/2024 9:20 am

Compound #39: 1-br-2-nb_Pesticides #2



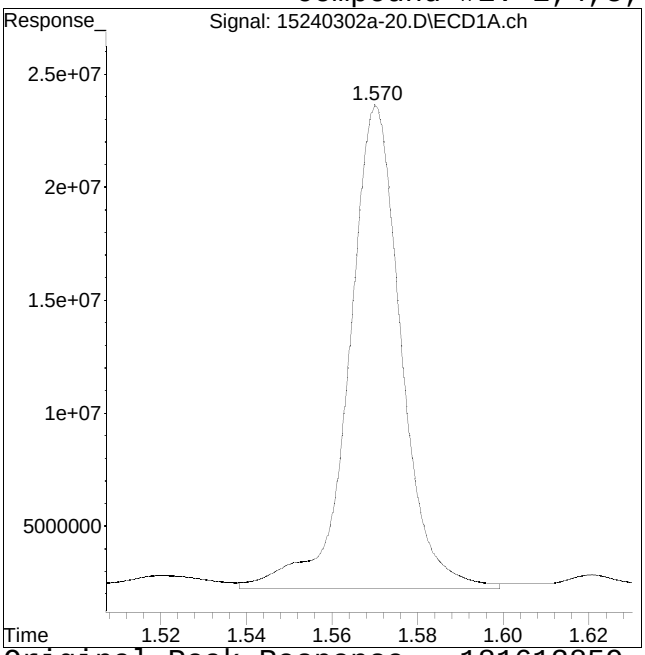


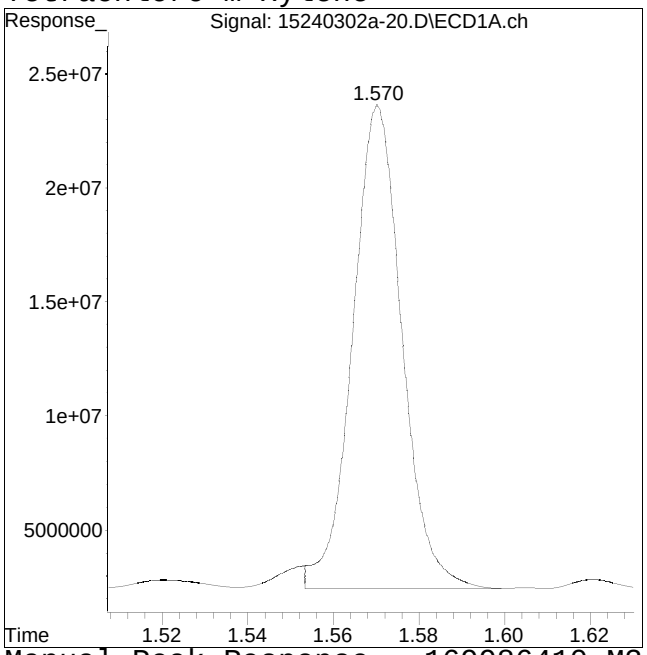
Original Peak Response = 111435310 Manual Peak Response = 97275346 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240302QMethod : P15_pest_2024_01_08_ugL_
Data File : 15240302a-20.D Operator : Pest15:mmg
Date Inj'd : 3/2/2024 7:31 pm Instrument : Pest 15
Sample : L2410579-01,42,, Quant Date : 3/3/2024 9:20 am

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



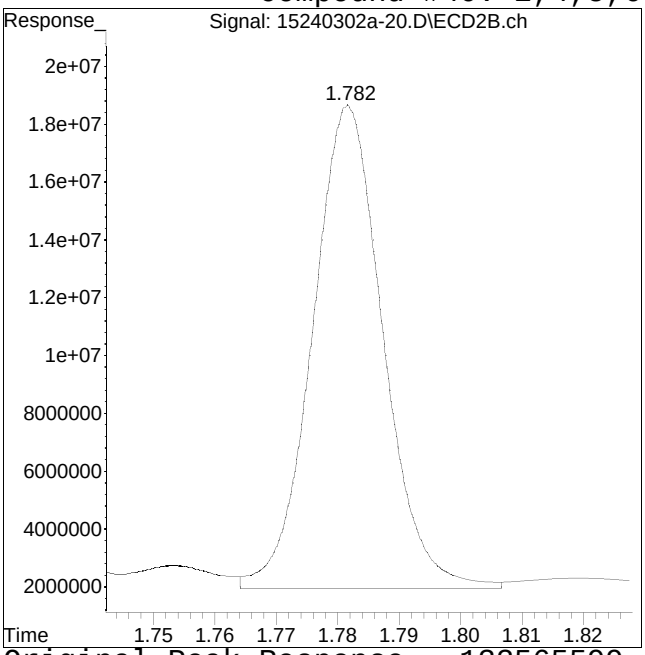


Original Peak Response = 181612859 Manual Peak Response = 169986410 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

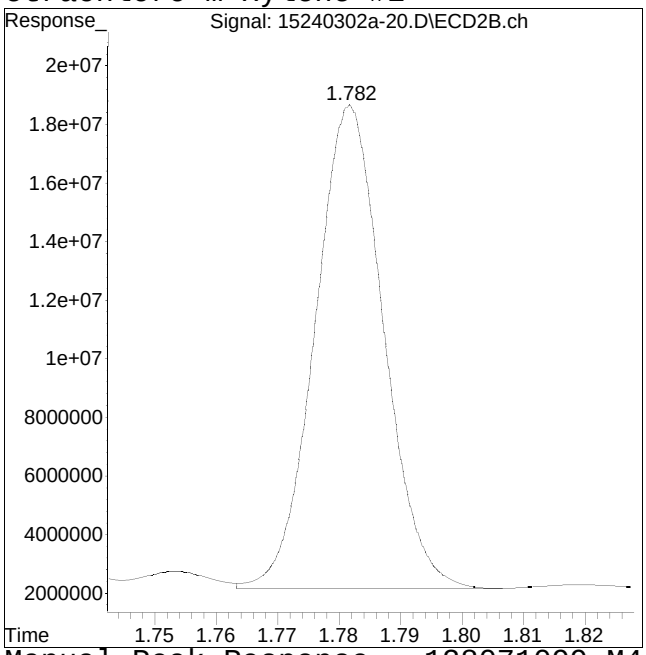
Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240302QMethod : P15_pest_2024_01_08_ugL_
Data File : 15240302a-20.D Operator : Pest15:mmg
Date Inj'd : 3/2/2024 7:31 pm Instrument : Pest 15
Sample : L2410579-01,42,, Quant Date : 3/3/2024 9:20 am

Compound #40: 2,4,5,6-Tetrachloro-m-xylene #2



Original Peak Response = 133565599



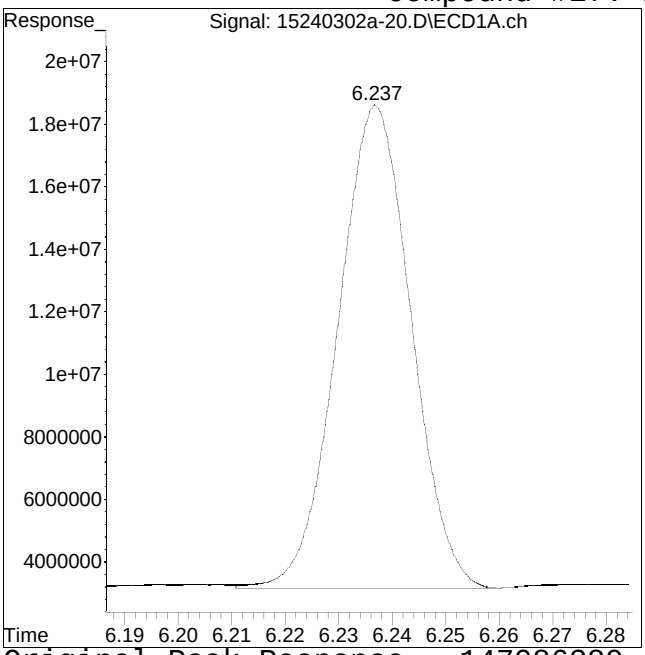
Manual Peak Response = 128071099 M4

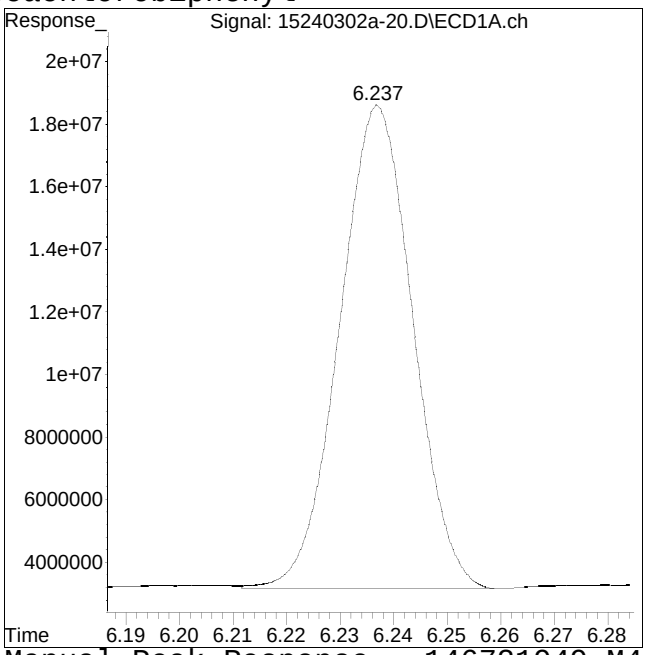
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240302QMethod : P15_pest_2024_01_08_ugL_
Data File : 15240302a-20.D Operator : Pest15:mmg
Date Inj'd : 3/2/2024 7:31 pm Instrument : Pest 15
Sample : L2410579-01,42,, Quant Date : 3/3/2024 9:20 am

Compound #27: Decachlorobiphenyl



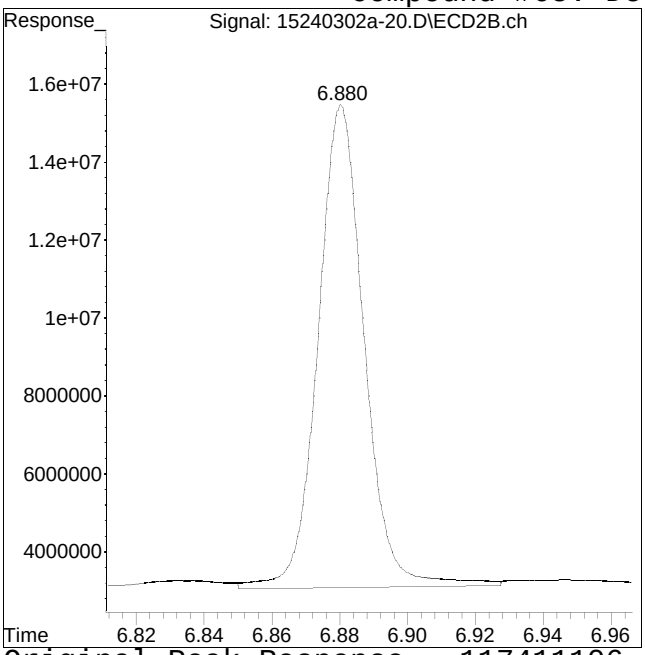


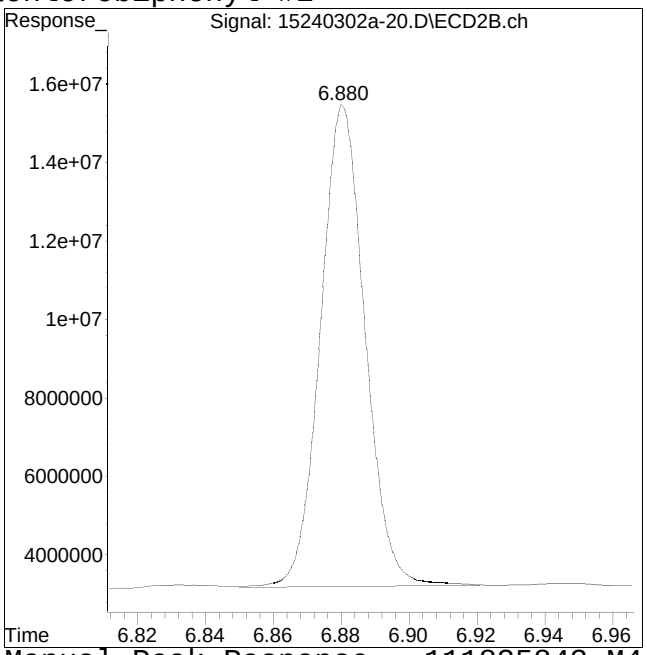
Original Peak Response = 147086389 Manual Peak Response = 146721949 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240302QMethod : P15_pest_2024_01_08_ugL_
Data File : 15240302a-20.D Operator : Pest15:mmg
Date Inj'd : 3/2/2024 7:31 pm Instrument : Pest 15
Sample : L2410579-01,42,, Quant Date : 3/3/2024 9:20 am

Compound #65: Decachlorobiphenyl #2



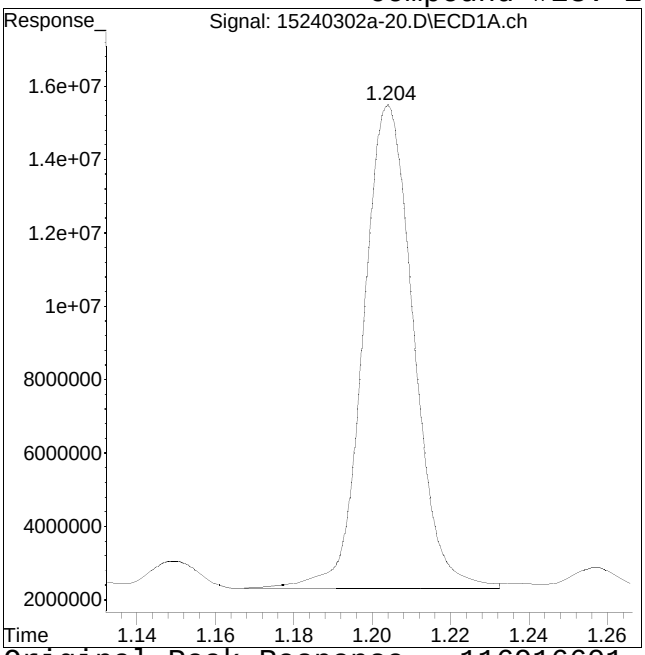


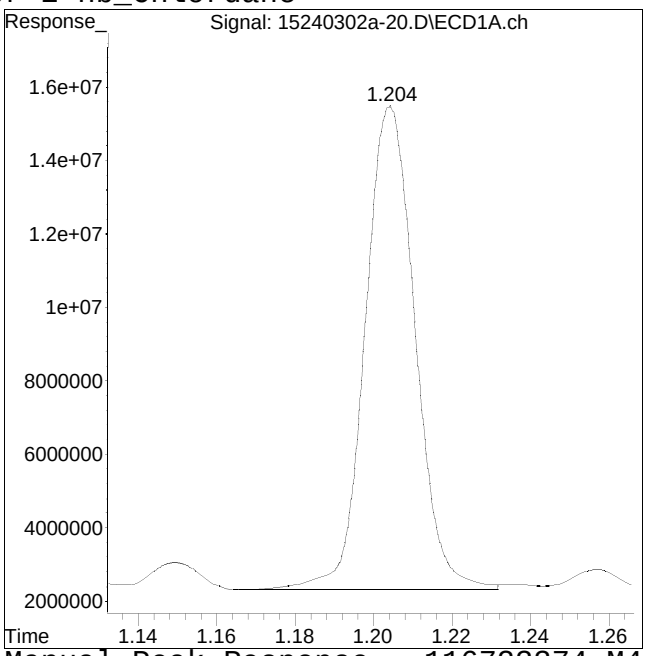
Original Peak Response = 117411106 Manual Peak Response = 111835843 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240302QMethod : P15_pest_2024_01_08_ugL_
Data File : 15240302a-20.D Operator : Pest15:mmg
Date Inj'd : 3/2/2024 7:31 pm Instrument : Pest 15
Sample : L2410579-01,42,, Quant Date : 3/3/2024 9:20 am

Compound #28: 1-br-2-nb_Chlordane



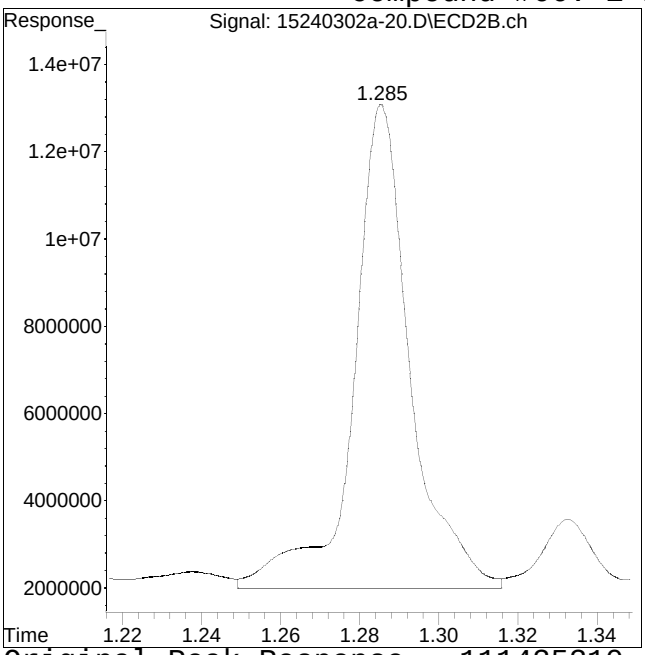


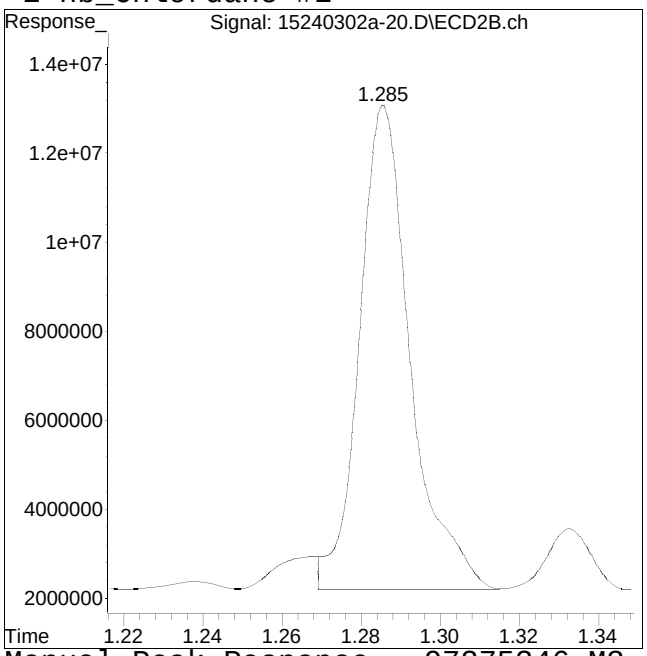
Original Peak Response = 116916601 Manual Peak Response = 116723374 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240302QMethod : P15_pest_2024_01_08_ugL_
Data File : 15240302a-20.D Operator : Pest15:mmg
Date Inj'd : 3/2/2024 7:31 pm Instrument : Pest 15
Sample : L2410579-01,42,, Quant Date : 3/3/2024 9:20 am

Compound #66: 1-br-2-nb_Chlordane #2



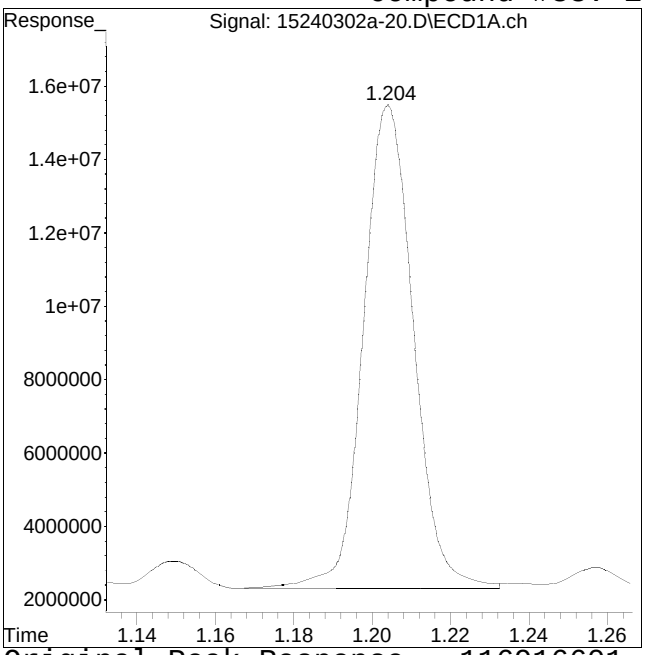


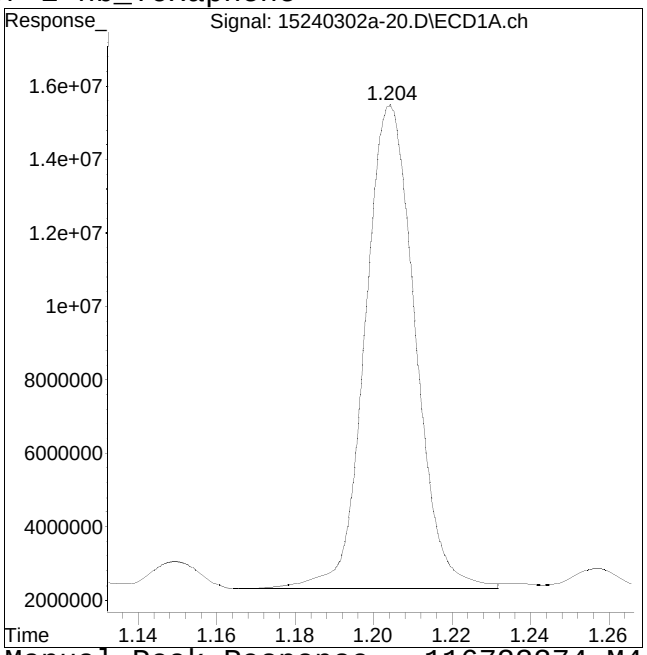
Original Peak Response = 111435310 Manual Peak Response = 97275346 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240302QMethod : P15_pest_2024_01_08_ugL_
Data File : 15240302a-20.D Operator : Pest15:mmg
Date Inj'd : 3/2/2024 7:31 pm Instrument : Pest 15
Sample : L2410579-01,42,, Quant Date : 3/3/2024 9:20 am

Compound #33: 1-br-2-nb_Toxaphene



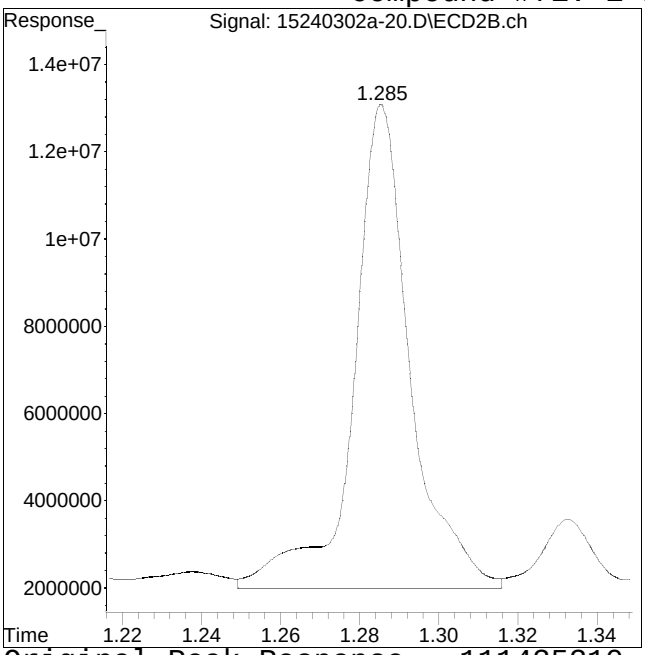


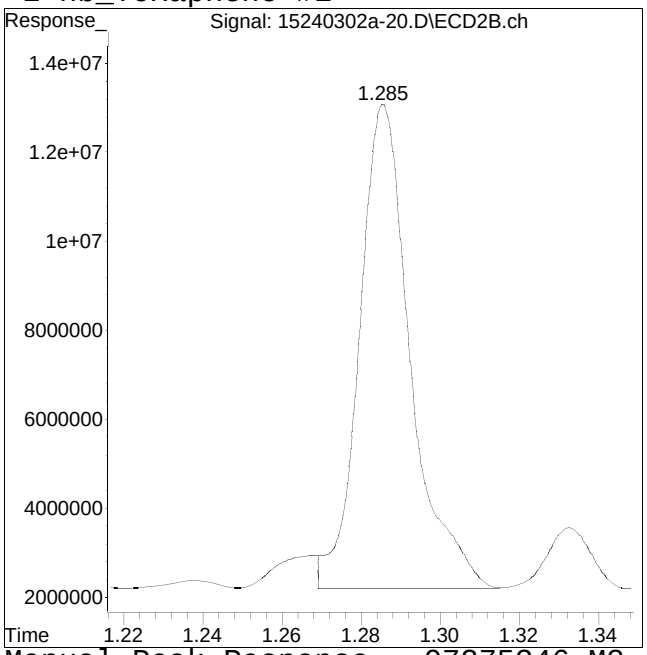
Original Peak Response = 116916601 Manual Peak Response = 116723374 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240302QMethod : P15_pest_2024_01_08_ugL_
Data File : 15240302a-20.D Operator : Pest15:mmg
Date Inj'd : 3/2/2024 7:31 pm Instrument : Pest 15
Sample : L2410579-01,42,, Quant Date : 3/3/2024 9:20 am

Compound #71: 1-br-2-nb_Toxaphene #2





Original Peak Response = 111435310 Manual Peak Response = 97275346 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest15\2024\240302A\
Data File : 15240302a-21.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 Mar 2024 7:43 pm
Operator : Pest15:mmg
Sample : L2410579-02,42,,
Misc : wg1891515,WG1891324,ical20776
ALS Vial : 21 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Mar 04 11:42:41 2024
Quant Method : I:\PEST\Pest15\2024\240302A\P15_pest_2024_01_08_ugL_ICAL2077
... 6.m
Quant Title : pest
QLast Update : Sat Mar 02 17:23:07 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest15\2024\240302A\15240302a-03.D
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards							
1) i	1-br-2-nb_Pe	1.203	1.285	104.3E6	84082900	25.000M4	25.000M4
	Standard Area 1 : #1 = 112632209				Recovery = 92.64%		
	Standard Area 1 : #2 = 89452580				Recovery = 94.00%		
28) i	1-br-2-nb_Ch	1.203	1.285	104.3E6	84082900	25.000M4	25.000M4
33) i	1-br-2-nb_To	1.203	1.285	104.3E6	84082900	25.000M4	25.000M4
System Monitoring Compounds							
2) s	2,4,5,6-Tetr	1.569	1.781	166.9E6	128.5E6	37.751M3	34.692M4
	Spiked Amount 50.000	Range 30 - 150			Recovery = 75.50%		69.38%
27) s	Decachlorobi	6.237	6.880	160.8E6	120.1E6	37.403M3	48.526M3
	Spiked Amount 50.000	Range 30 - 150			Recovery = 74.81%		97.05%
Target Compounds							
4)	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6)	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8)	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9)	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
12)	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13)	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14)	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest15\2024\240302A\
Data File : 15240302a-21.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 Mar 2024 7:43 pm
Operator : Pest15:mmg
Sample : L2410579-02,42,,
Misc : wg1891515,WG1891324,ical20776
ALS Vial : 21 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Mar 04 11:42:41 2024
Quant Method : I:\PEST\Pest15\2024\240302A\P15_pest_2024_01_08_ugL_ICAL2077
... 6.m
Quant Title : pest
QLast Update : Sat Mar 02 17:23:07 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest15\2024\240302A\15240302a-03.D
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
17)	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18)	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22)	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d
23)	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
25)	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26)	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum chlordane-1			0	0	N.D.	N.D.
	Average chlordane-1					0.000	0.000
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum toxaphene-1			0	0	N.D.	N.D.
	Average toxaphene-1					0.000	0.000
	SemiQuant Compounds - Not Calibrated on this Instrument						
	Sum toxaphene-1			0	0	N.D.	N.D.
	Average toxaphene-1					0.000	0.000

(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Data Path : I:\PEST\Pest15\2024\240302A\
Data File : 15240302a-21.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 Mar 2024 7:43 pm
Operator : Pest15:mmg
Sample : L2410579-02,42,,
Misc : wg1891515,WG1891324,ical20776
ALS Vial : 21 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Mar 04 11:42:41 2024
Quant Method : I:\PEST\Pest15\2024\240302A\P15_pest_2024_01_08_ugL_ICAL2077
... 6.m
Quant Title : pest
QLast Update : Sat Mar 02 17:23:07 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest15\2024\240302A\15240302a-03.D
Sub List : Default - All compounds listed

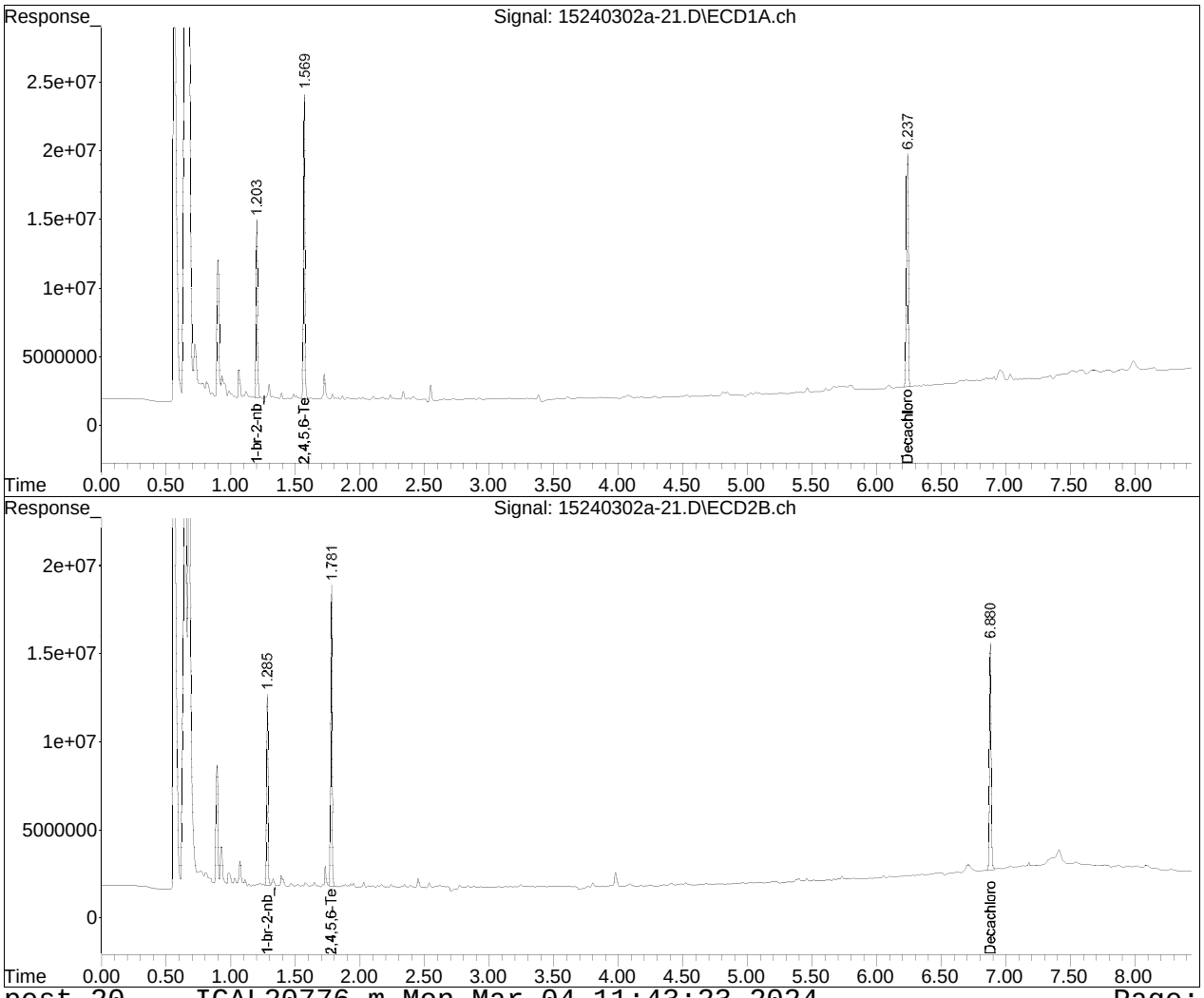
Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l

Sub List : Default - All compounds listedA\15240302a-03.D••

Data Path : I:\PEST\Pest15\2024\240302A\
Data File : 15240302a-21.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 Mar 2024 7:43 pm
Operator : Pest15:mmg
Sample : L2410579-02,42,,
Misc : wg1891515,WG1891324,ical20776
ALS Vial : 21 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Mar 04 11:42:41 2024
Quant Method : I:\PEST\Pest15\2024\240302A\P15_pest_2024_01_08_ugL_ICAL2077
... 6.m
Quant Title : pest
QLast Update : Sat Mar 02 17:23:07 2024
Response via : Initial Calibration
Integrator: ChemStation

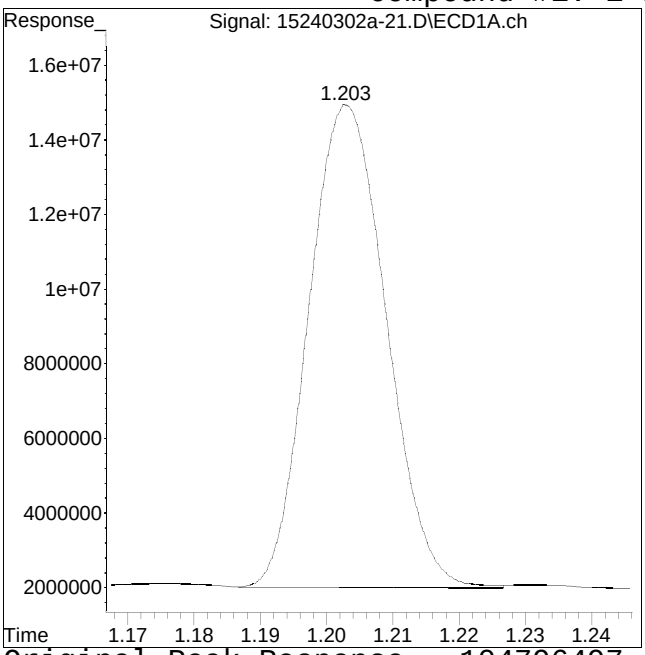
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

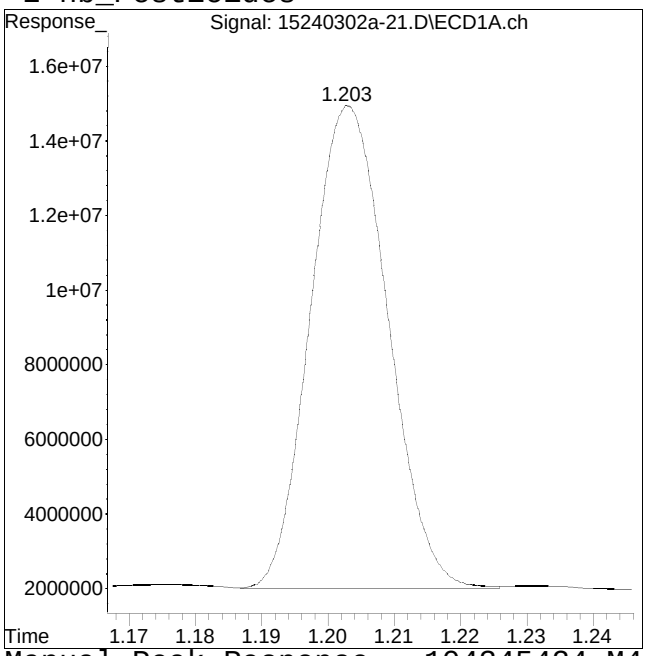


Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240302QMethod : P15_pest_2024_01_08_ugL_
Data File : 15240302a-21.D Operator : Pest15:mmg
Date Inj'd : 3/2/2024 7:43 pm Instrument : Pest 15
Sample : L2410579-02,42,, Quant Date : 3/3/2024 9:21 am

Compound #1: 1-br-2-nb_Pesticides



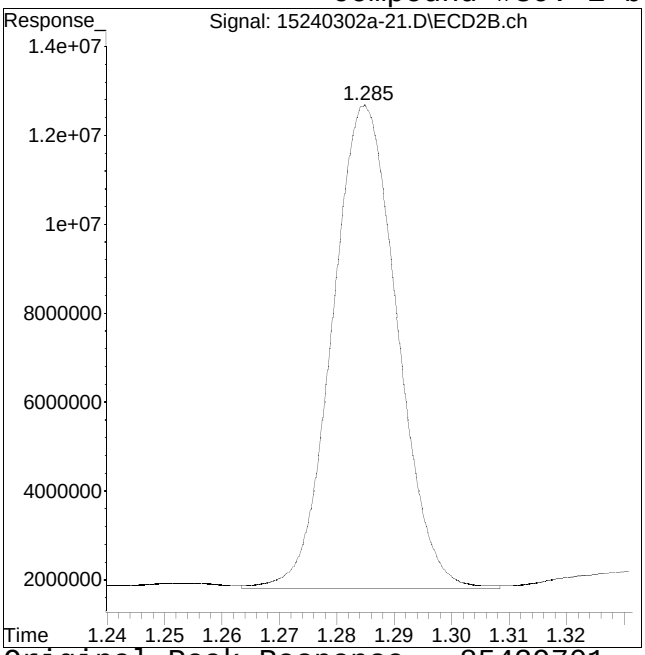


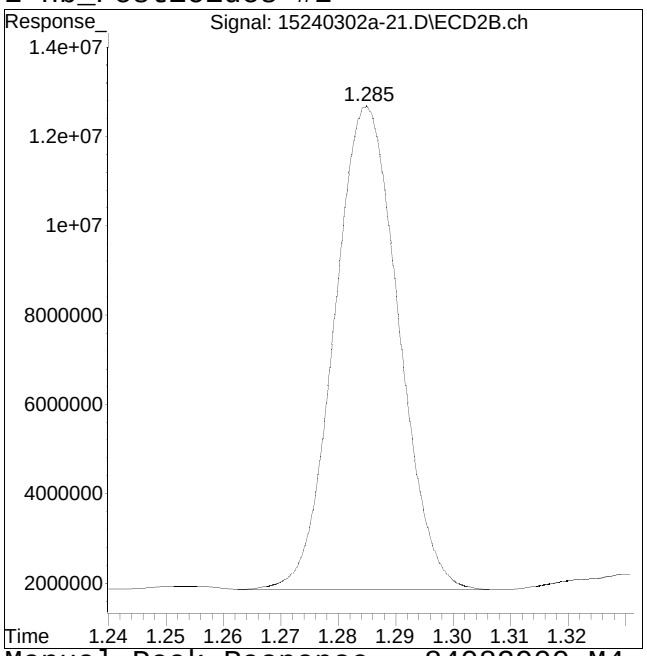
Original Peak Response = 104796497 Manual Peak Response = 104345424 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240302QMethod : P15_pest_2024_01_08_ugL_
Data File : 15240302a-21.D Operator : Pest15:mmg
Date Inj'd : 3/2/2024 7:43 pm Instrument : Pest 15
Sample : L2410579-02,42,, Quant Date : 3/3/2024 9:21 am

Compound #39: 1-br-2-nb_Pesticides #2



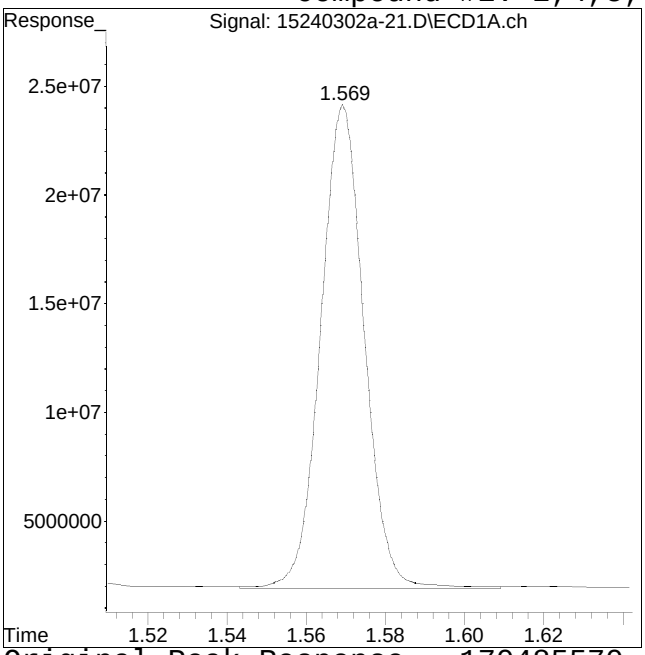


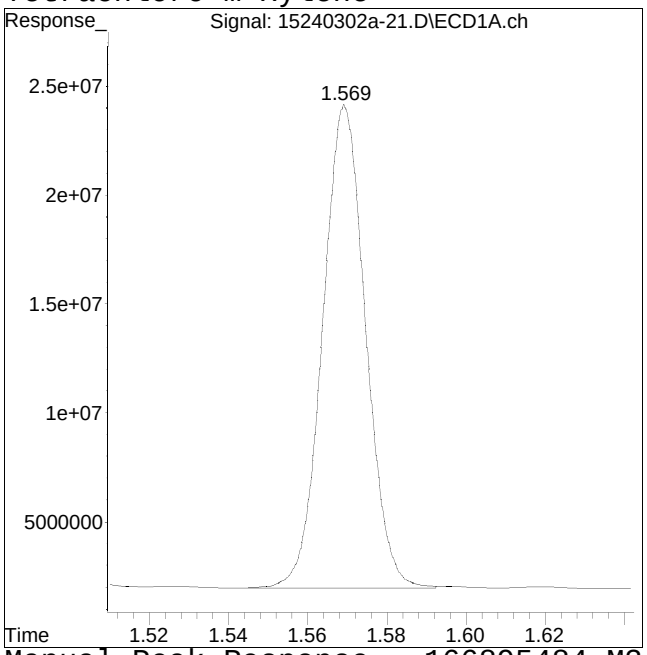
Original Peak Response = 85439701 Manual Peak Response = 84082900 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240302QMethod : P15_pest_2024_01_08_ugL_
Data File : 15240302a-21.D Operator : Pest15:mmg
Date Inj'd : 3/2/2024 7:43 pm Instrument : Pest 15
Sample : L2410579-02,42,, Quant Date : 3/3/2024 9:21 am

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



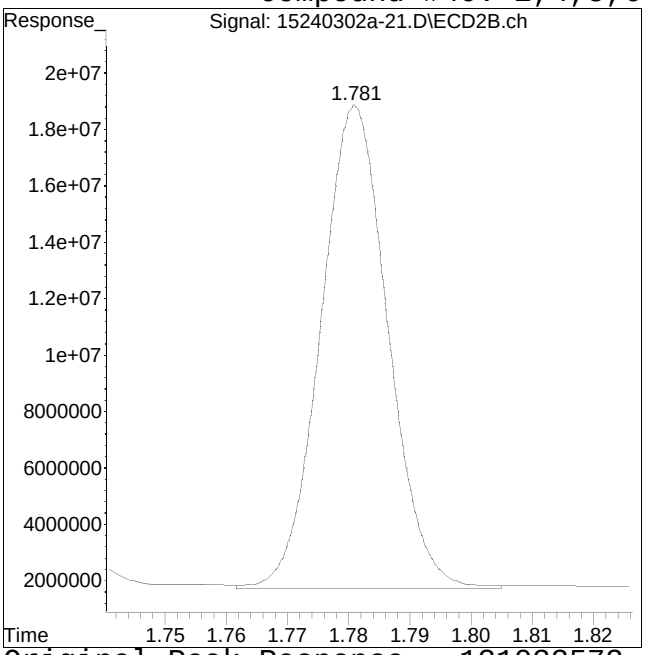


Original Peak Response = 170485570 Manual Peak Response = 166895484 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

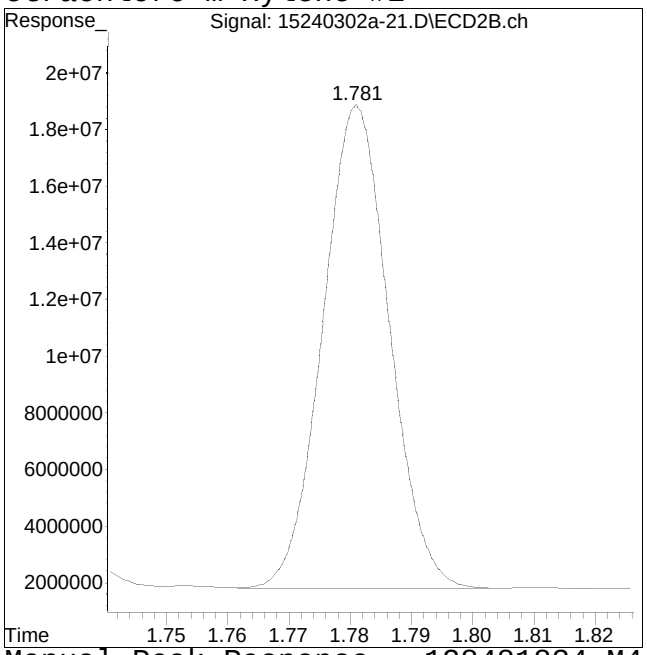
Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240302QMethod : P15_pest_2024_01_08_ugL_
Data File : 15240302a-21.D Operator : Pest15:mmg
Date Inj'd : 3/2/2024 7:43 pm Instrument : Pest 15
Sample : L2410579-02,42,, Quant Date : 3/3/2024 9:21 am

Compound #40: 2,4,5,6-Tetrachloro-m-xylene #2



Original Peak Response = 131032573



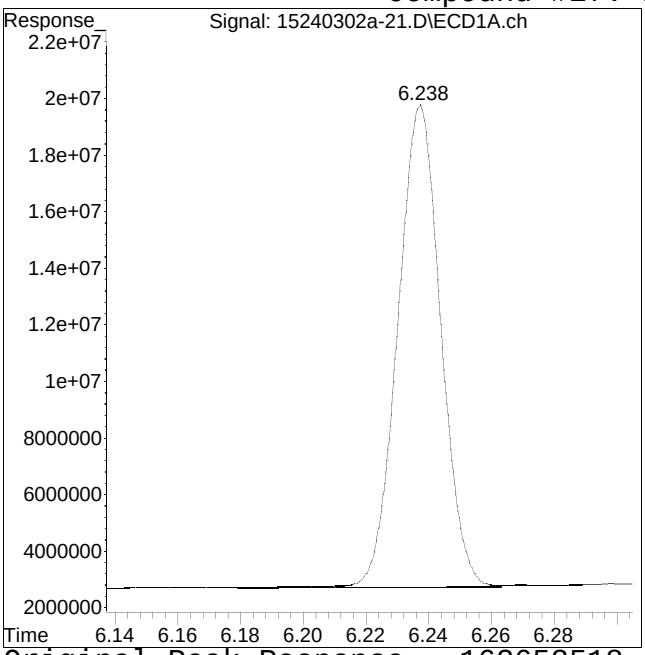
Manual Peak Response = 128481834 M4

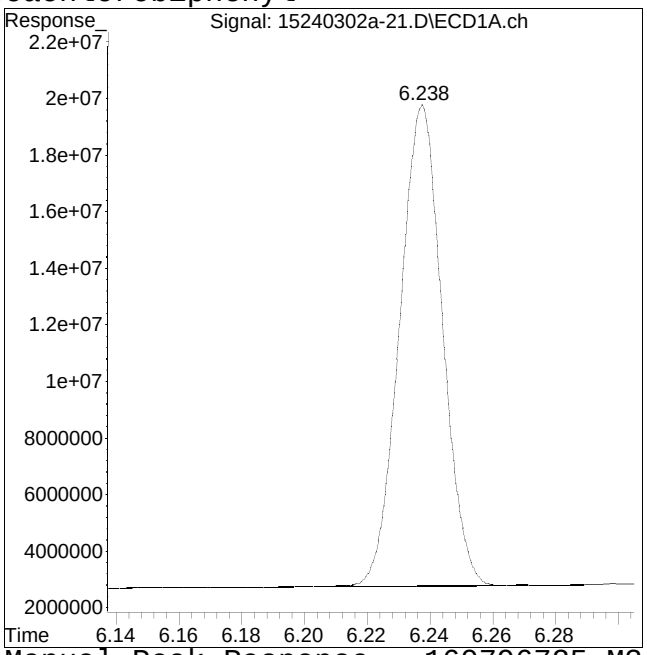
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240302QMethod : P15_pest_2024_01_08_ugL_
Data File : 15240302a-21.D Operator : Pest15:mmg
Date Inj'd : 3/2/2024 7:43 pm Instrument : Pest 15
Sample : L2410579-02,42,, Quant Date : 3/3/2024 9:21 am

Compound #27: Decachlorobiphenyl



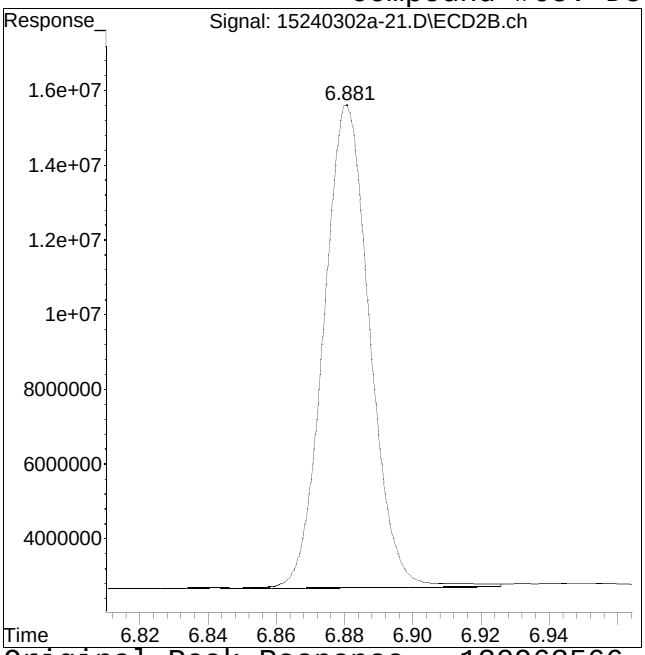


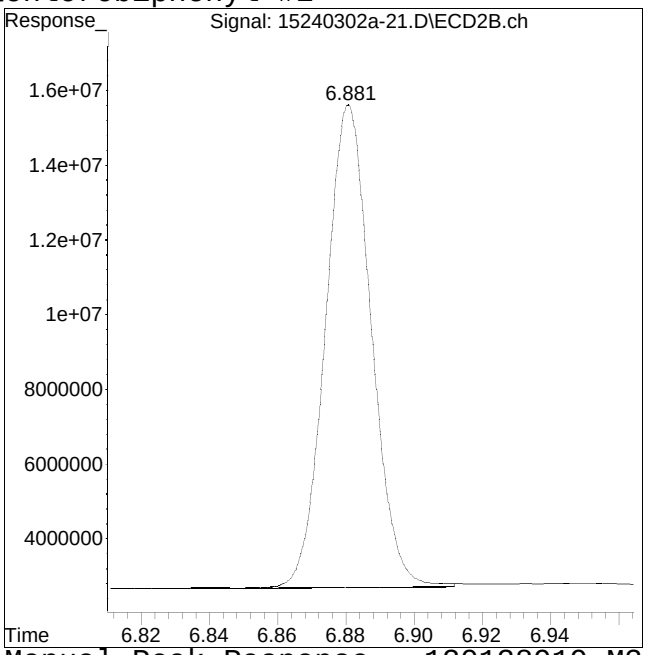
Original Peak Response = 162652518 Manual Peak Response = 160796725 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240302QMethod : P15_pest_2024_01_08_ugL_
Data File : 15240302a-21.D Operator : Pest15:mmg
Date Inj'd : 3/2/2024 7:43 pm Instrument : Pest 15
Sample : L2410579-02,42,, Quant Date : 3/3/2024 9:21 am

Compound #65: Decachlorobiphenyl #2



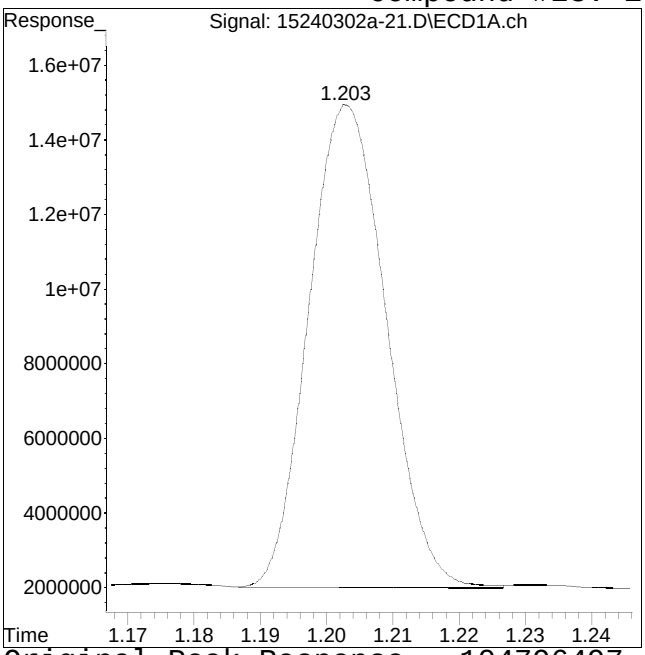


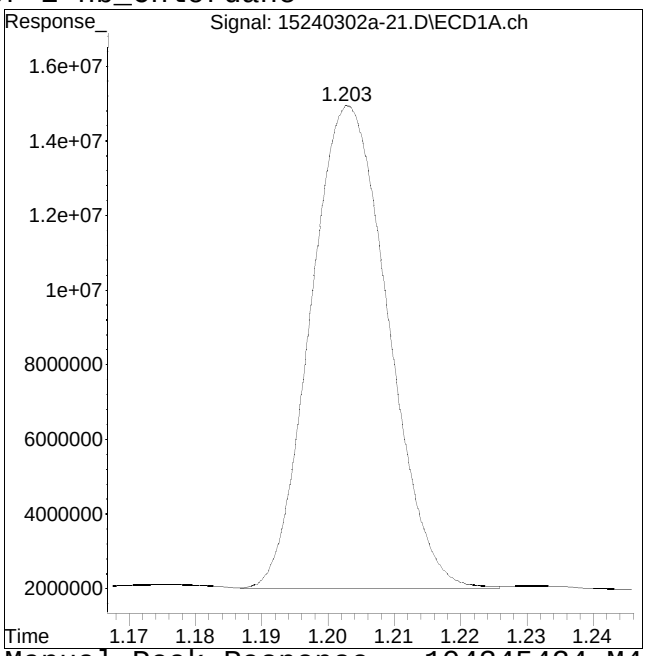
Original Peak Response = 120963566 Manual Peak Response = 120138919 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240302QMethod : P15_pest_2024_01_08_ugL_
Data File : 15240302a-21.D Operator : Pest15:mmg
Date Inj'd : 3/2/2024 7:43 pm Instrument : Pest 15
Sample : L2410579-02,42,, Quant Date : 3/3/2024 9:21 am

Compound #28: 1-br-2-nb_Chlordane



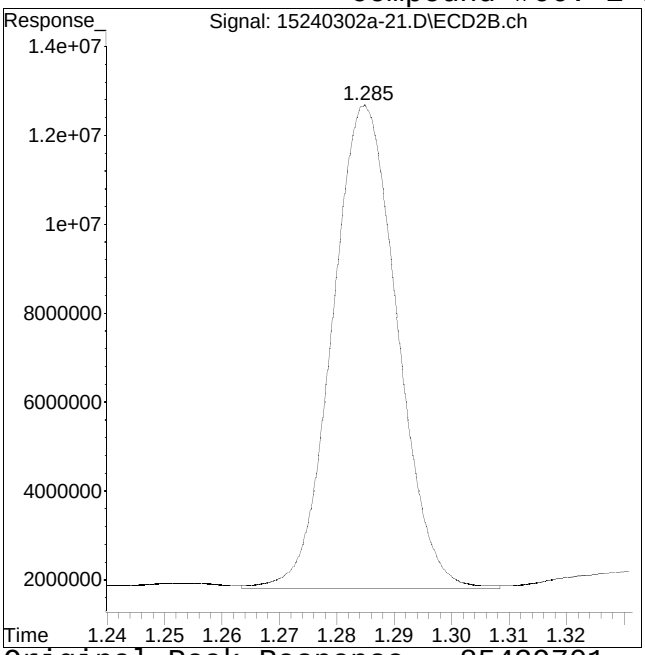


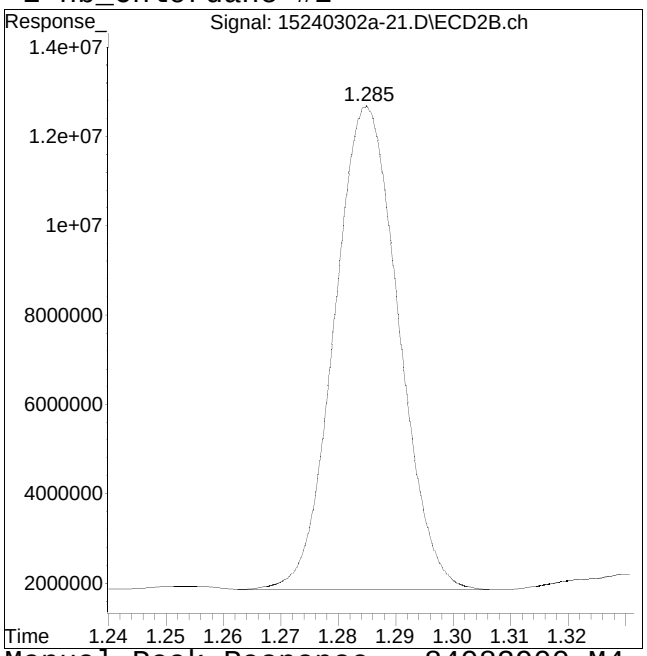
Original Peak Response = 104796497 Manual Peak Response = 104345424 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240302QMethod : P15_pest_2024_01_08_ugL_
Data File : 15240302a-21.D Operator : Pest15:mmg
Date Inj'd : 3/2/2024 7:43 pm Instrument : Pest 15
Sample : L2410579-02,42,, Quant Date : 3/3/2024 9:21 am

Compound #66: 1-br-2-nb_Chlordane #2



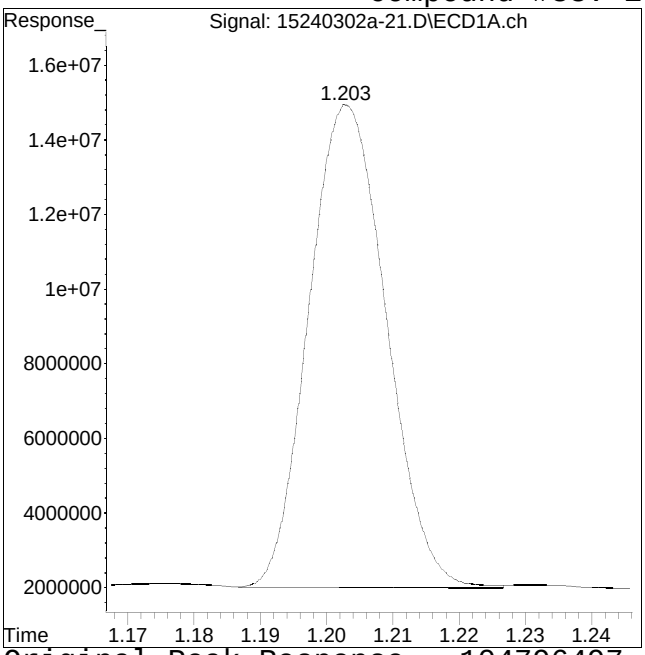


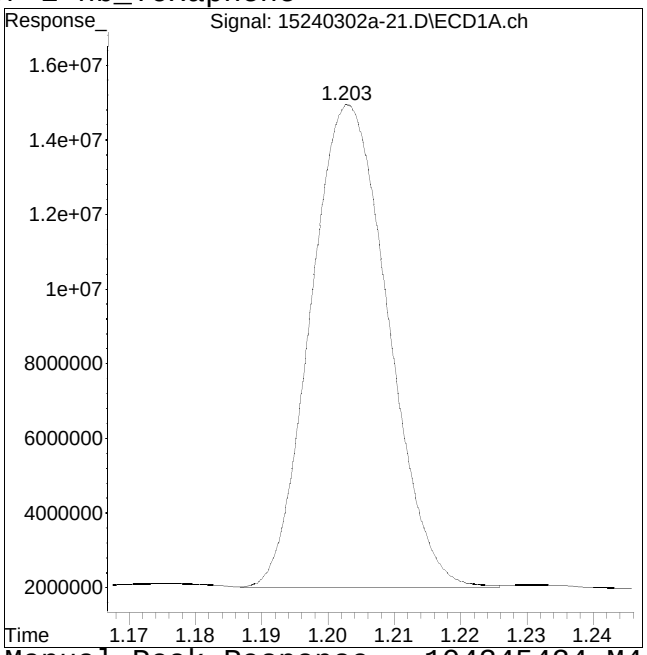
Original Peak Response = 85439701 Manual Peak Response = 84082900 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240302QMethod : P15_pest_2024_01_08_ugL_
Data File : 15240302a-21.D Operator : Pest15:mmg
Date Inj'd : 3/2/2024 7:43 pm Instrument : Pest 15
Sample : L2410579-02,42,, Quant Date : 3/3/2024 9:21 am

Compound #33: 1-br-2-nb_Toxaphene



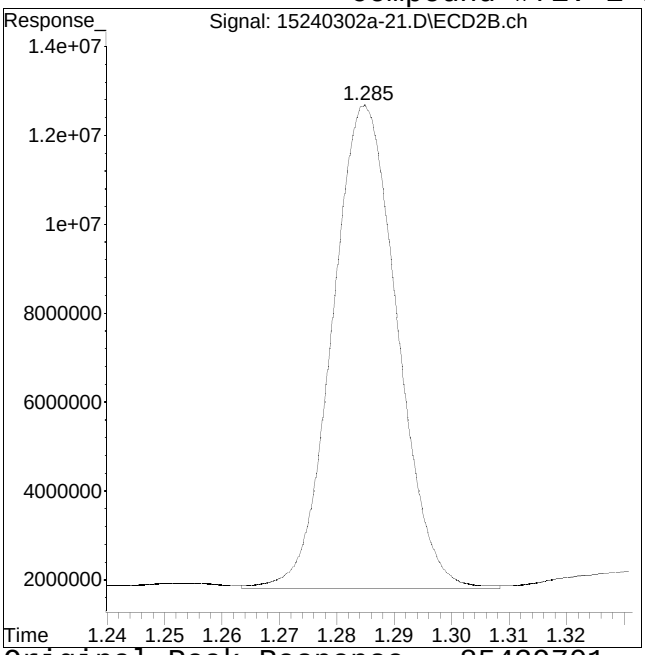


Original Peak Response = 104796497 Manual Peak Response = 104345424 M4
M4 = Poor automated baseline construction.

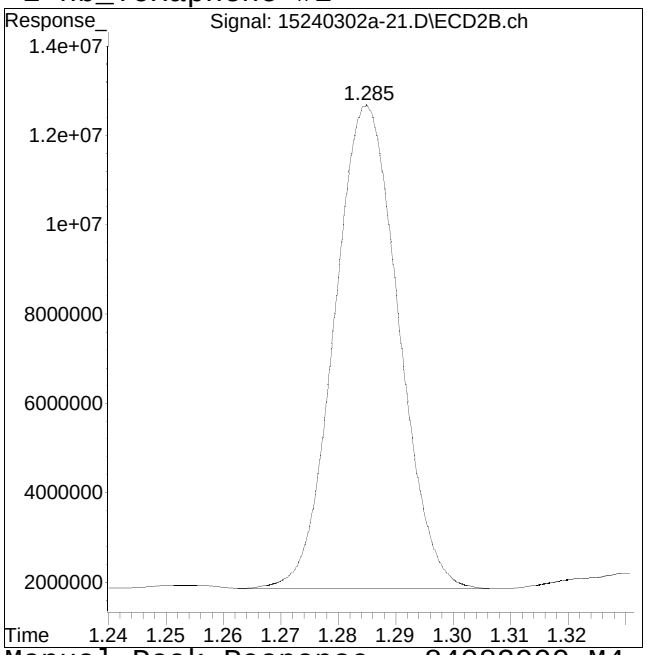
Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240302QMethod : P15_pest_2024_01_08_ugL_
Data File : 15240302a-21.D Operator : Pest15:mmg
Date Inj'd : 3/2/2024 7:43 pm Instrument : Pest 15
Sample : L2410579-02,42,, Quant Date : 3/3/2024 9:21 am

Compound #71: 1-br-2-nb_Toxaphene #2



Original Peak Response = 85439701



Manual Peak Response = 84082900 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest15\2024\240302A\
Data File : 15240302a-22.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 Mar 2024 7:54 pm
Operator : Pest15:mmg
Sample : L2410579-03,42,,
Misc : wg1891515,WG1891324,ical20776
ALS Vial : 22 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Mar 04 11:44:33 2024
Quant Method : I:\PEST\Pest15\2024\240302A\P15_pest_2024_01_08_ugL_ICAL2077
... 6.m
Quant Title : pest
QLast Update : Sat Mar 02 17:23:07 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest15\2024\240302A\15240302a-03.D
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards							
1) i	1-br-2-nb_Pe	1.201	1.283	115.1E6	92266577	25.000M4	25.000M4
	Standard Area 1 : #1 = 112632209				Recovery = 102.16%		
	Standard Area 1 : #2 = 89452580				Recovery = 103.15%		
28) i	1-br-2-nb_Ch	1.201	1.283	115.1E6	92266577	25.000M4	25.000M4
33) i	1-br-2-nb_To	1.201	1.283	115.1E6	92266577	25.000M4	25.000M4
System Monitoring Compounds							
2) s	2,4,5,6-Tetr	1.568	1.780	143.8E6	112.5E6	29.506M4	27.691M4
	Spiked Amount 50.000	Range 30 - 150			Recovery = 59.01%		55.38%
27) s	Decachlorobi	6.237	6.879	149.5E6	113.1E6	31.542M3	41.383M4
	Spiked Amount 50.000	Range 30 - 150			Recovery = 63.08%		82.77%
Target Compounds							
4)	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6)	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8)	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9)	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
12)	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13)	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14)	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest15\2024\240302A\
Data File : 15240302a-22.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 Mar 2024 7:54 pm
Operator : Pest15:mmg
Sample : L2410579-03,42,,
Misc : wg1891515,WG1891324,ical20776
ALS Vial : 22 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Mar 04 11:44:33 2024
Quant Method : I:\PEST\Pest15\2024\240302A\P15_pest_2024_01_08_ugL_ICAL2077
... 6.m
Quant Title : pest
QLast Update : Sat Mar 02 17:23:07 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest15\2024\240302A\15240302a-03.D
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
17)	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18)	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22)	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d
23)	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
25)	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26)	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum chlordane-1			0	0	N.D.	N.D.
	Average chlordane-1					0.000	0.000
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum toxaphene-1			0	0	N.D.	N.D.
	Average toxaphene-1					0.000	0.000
	SemiQuant Compounds - Not Calibrated on this Instrument						
	Sum toxaphene-1			0	0	N.D.	N.D.
	Average toxaphene-1					0.000	0.000

(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Data Path : I:\PEST\Pest15\2024\240302A\
Data File : 15240302a-22.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 Mar 2024 7:54 pm
Operator : Pest15:mmg
Sample : L2410579-03,42,,
Misc : wg1891515,WG1891324,ical20776
ALS Vial : 22 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Mar 04 11:44:33 2024
Quant Method : I:\PEST\Pest15\2024\240302A\P15_pest_2024_01_08_ugL_ICAL2077
... 6.m
Quant Title : pest
QLast Update : Sat Mar 02 17:23:07 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest15\2024\240302A\15240302a-03.D
Sub List : Default - All compounds listed

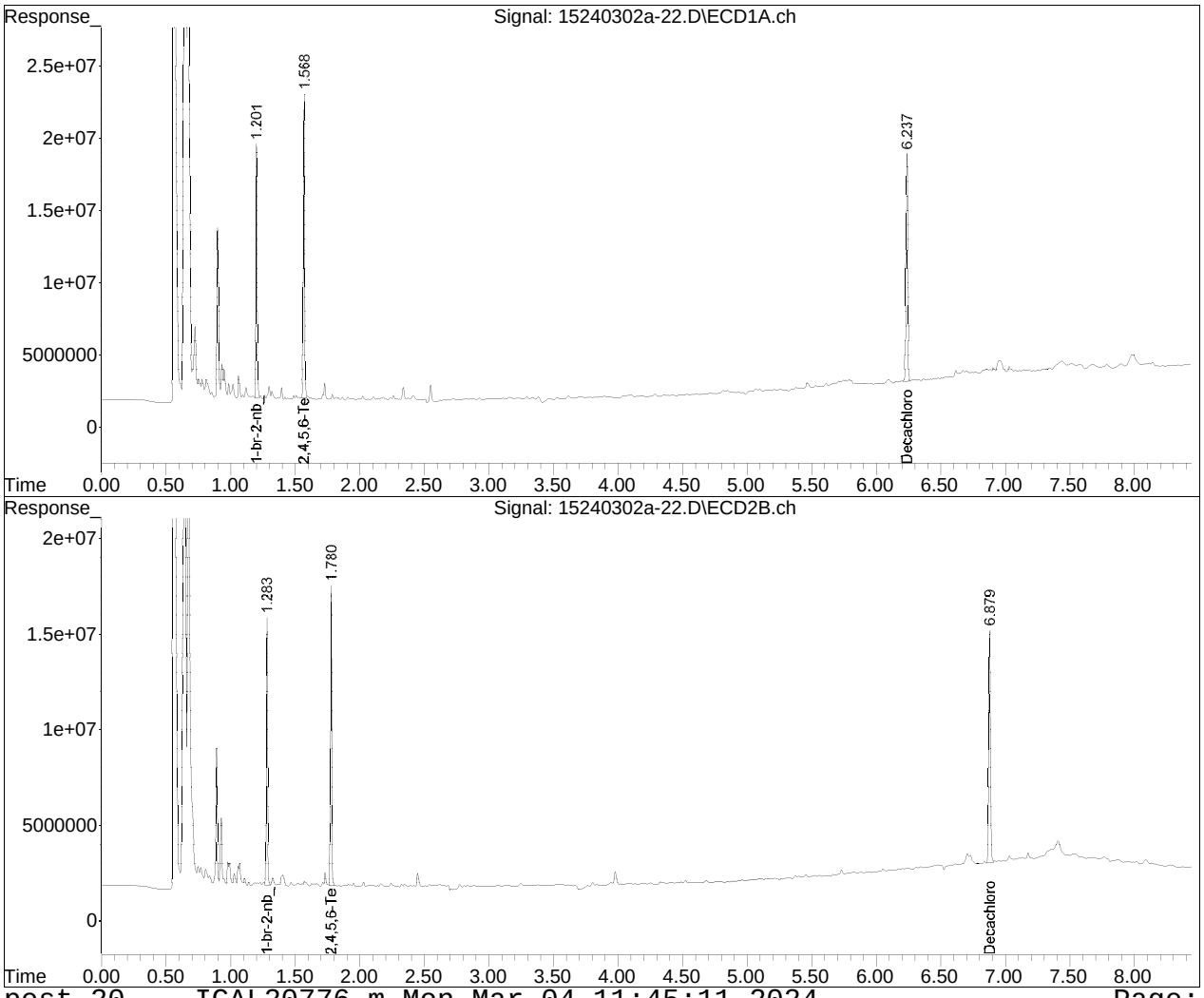
Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l

Sub List : Default - All compounds listedA\15240302a-03.D••

Data Path : I:\PEST\Pest15\2024\240302A\
Data File : 15240302a-22.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 Mar 2024 7:54 pm
Operator : Pest15:mmg
Sample : L2410579-03,42,,
Misc : wg1891515,WG1891324,ical20776
ALS Vial : 22 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Mar 04 11:44:33 2024
Quant Method : I:\PEST\Pest15\2024\240302A\P15_pest_2024_01_08_ugL_ICAL2077
... 6.m
Quant Title : pest
QLast Update : Sat Mar 02 17:23:07 2024
Response via : Initial Calibration
Integrator: ChemStation

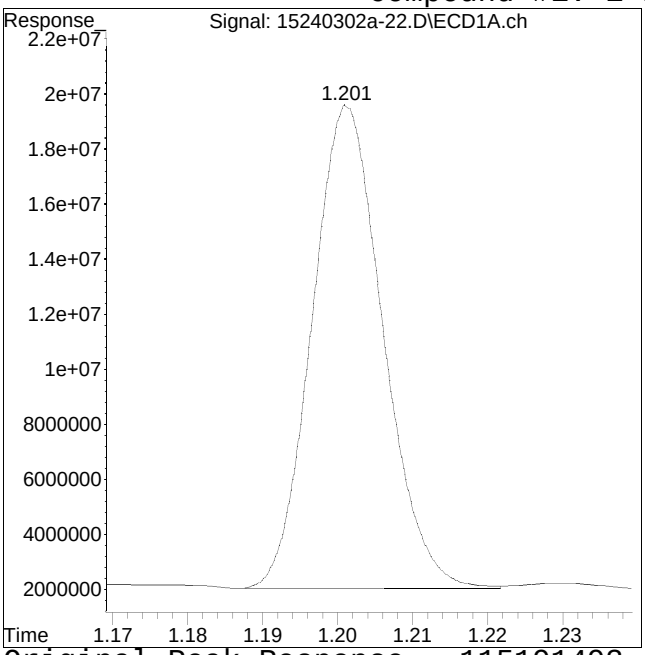
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

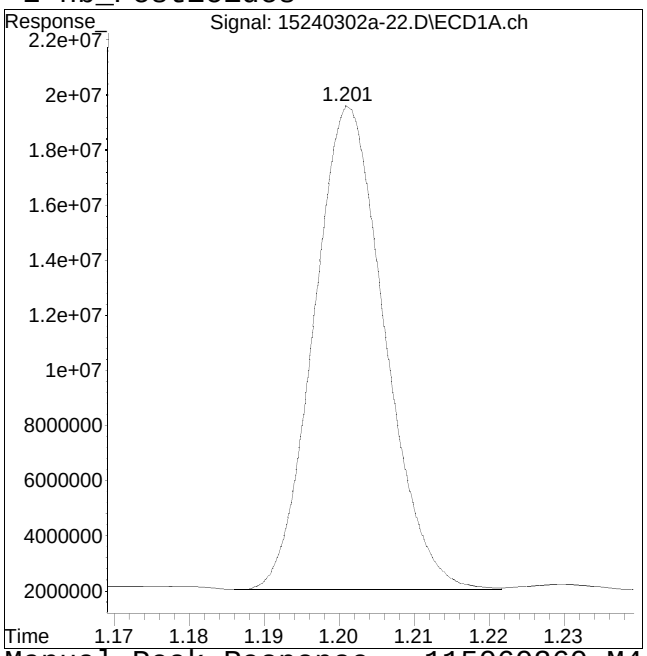


Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240302QMethod : P15_pest_2024_01_08_ugL_
Data File : 15240302a-22.D Operator : Pest15:mmg
Date Inj'd : 3/2/2024 7:54 pm Instrument : Pest 15
Sample : L2410579-03,42,, Quant Date : 3/3/2024 9:21 am

Compound #1: 1-br-2-nb_Pesticides



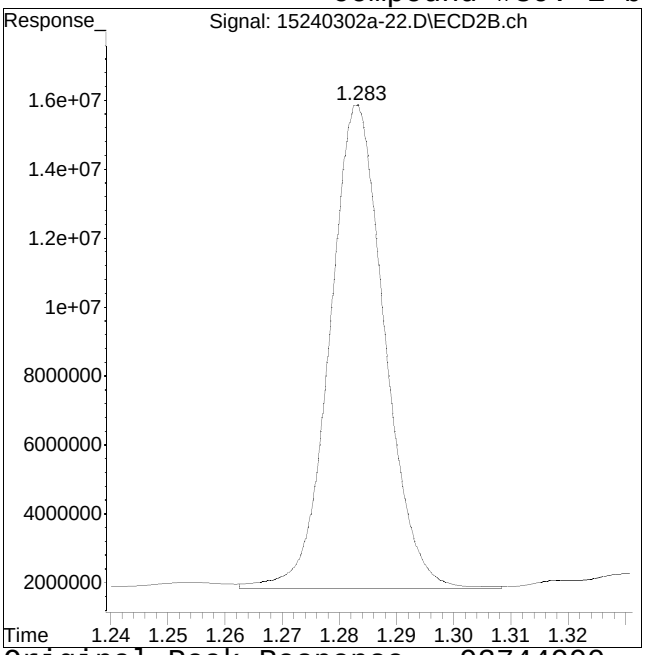


Original Peak Response = 115191493 Manual Peak Response = 115060260 M4
M4 = Poor automated baseline construction.

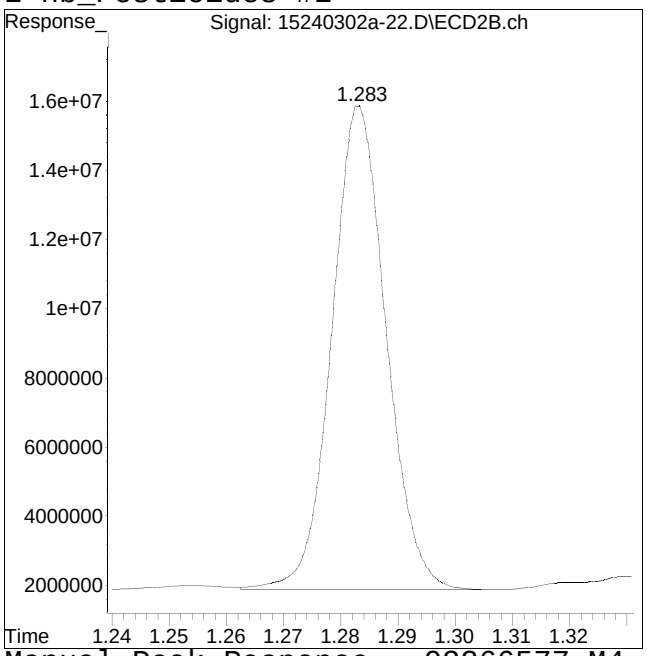
Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240302QMethod : P15_pest_2024_01_08_ugL_
Data File : 15240302a-22.D Operator : Pest15:mmg
Date Inj'd : 3/2/2024 7:54 pm Instrument : Pest 15
Sample : L2410579-03,42,, Quant Date : 3/3/2024 9:21 am

Compound #39: 1-br-2-nb_Pesticides #2



Original Peak Response = 93744990



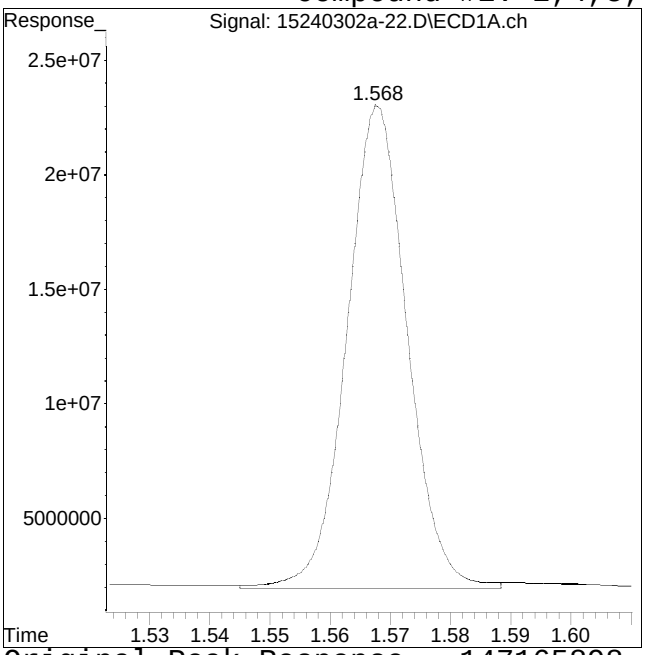
Manual Peak Response = 92266577 M4

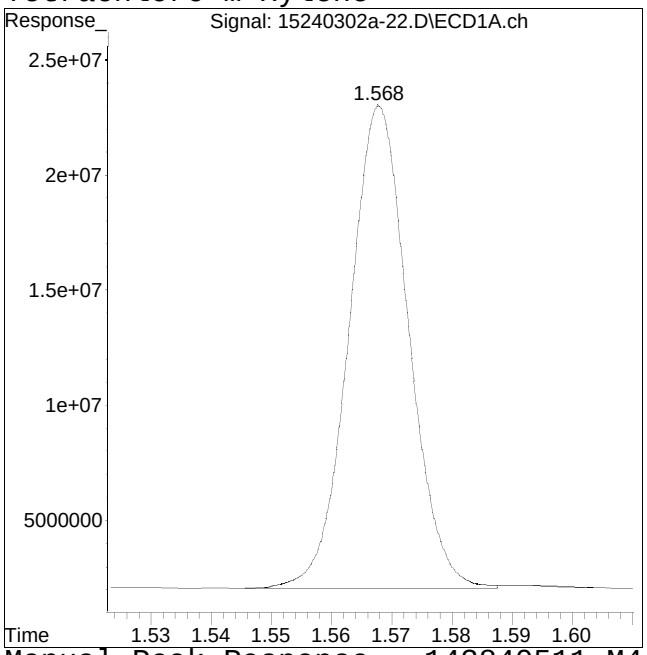
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240302QMethod : P15_pest_2024_01_08_ugL_
Data File : 15240302a-22.D Operator : Pest15:mmg
Date Inj'd : 3/2/2024 7:54 pm Instrument : Pest 15
Sample : L2410579-03,42,, Quant Date : 3/3/2024 9:21 am

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



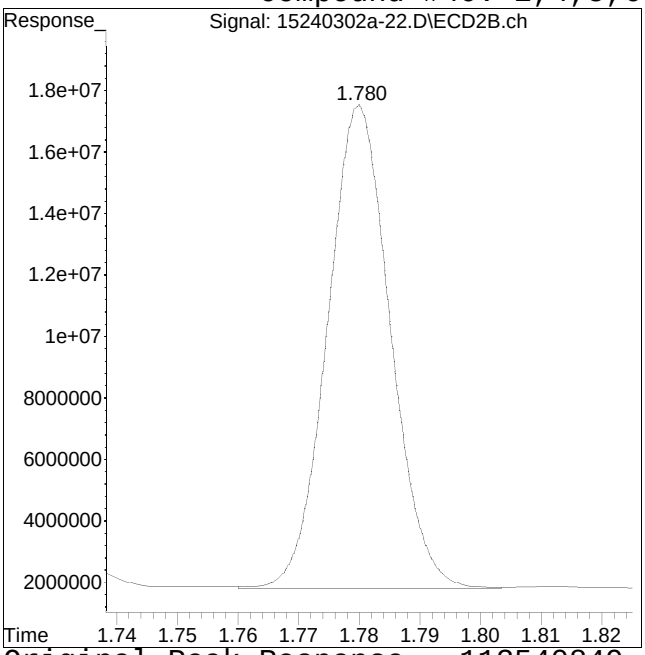


Original Peak Response = 147165898 Manual Peak Response = 143840511 M4
M4 = Poor automated baseline construction.

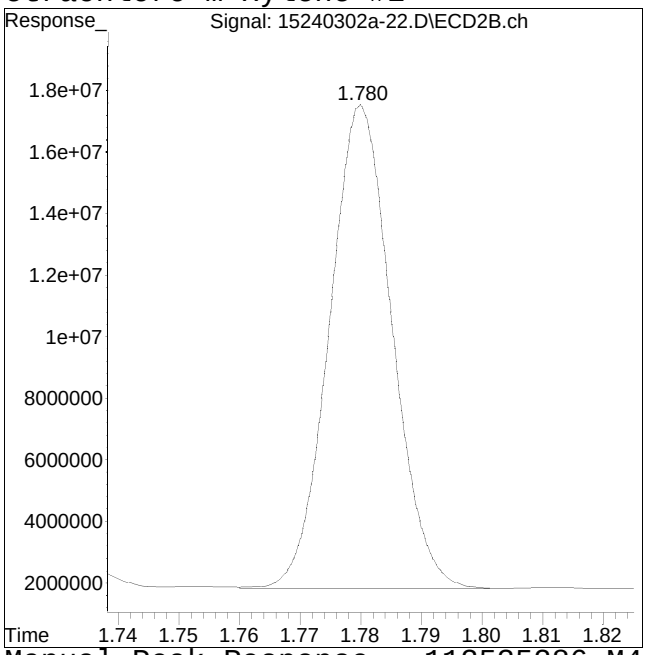
Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240302QMethod : P15_pest_2024_01_08_ugL_
Data File : 15240302a-22.D Operator : Pest15:mmg
Date Inj'd : 3/2/2024 7:54 pm Instrument : Pest 15
Sample : L2410579-03,42,, Quant Date : 3/3/2024 9:21 am

Compound #40: 2,4,5,6-Tetrachloro-m-xylene #2



Original Peak Response = 113540849



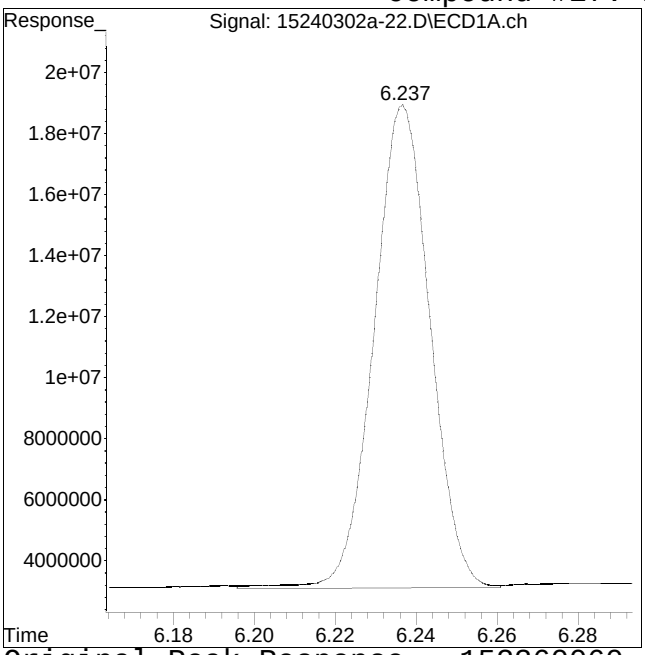
Manual Peak Response = 112535286 M4

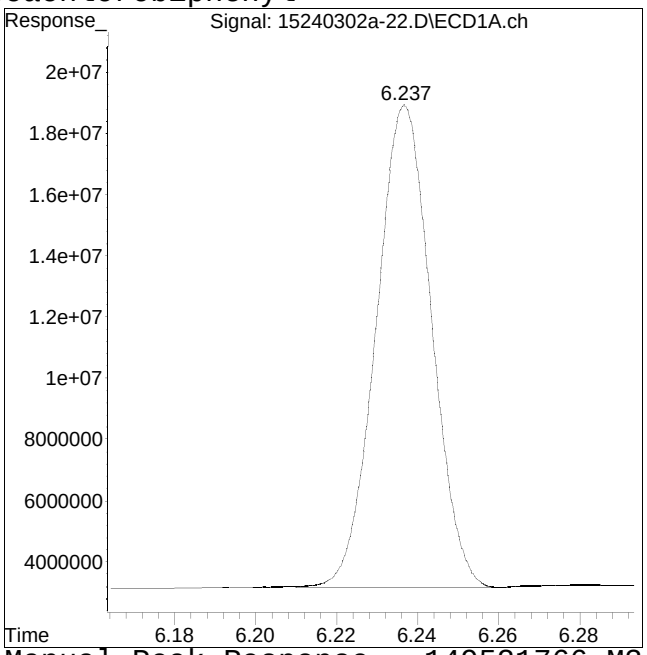
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240302QMethod : P15_pest_2024_01_08_ugL_
Data File : 15240302a-22.D Operator : Pest15:mmg
Date Inj'd : 3/2/2024 7:54 pm Instrument : Pest 15
Sample : L2410579-03,42,, Quant Date : 3/3/2024 9:21 am

Compound #27: Decachlorobiphenyl



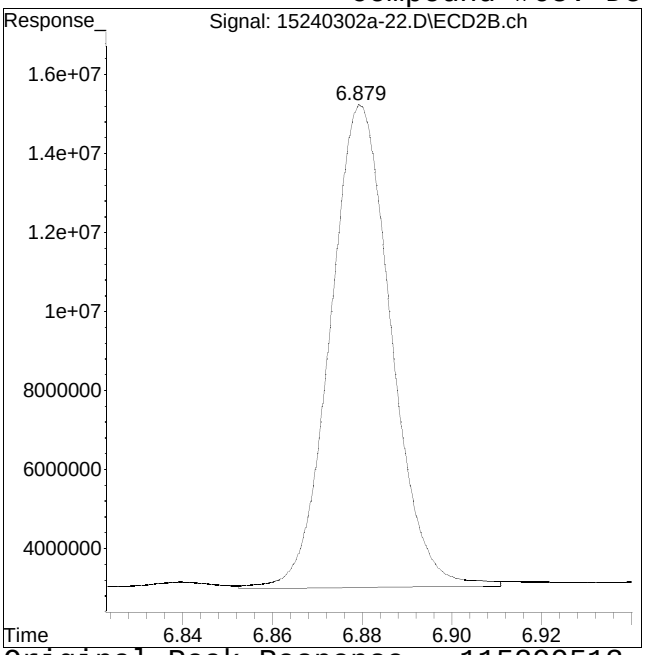


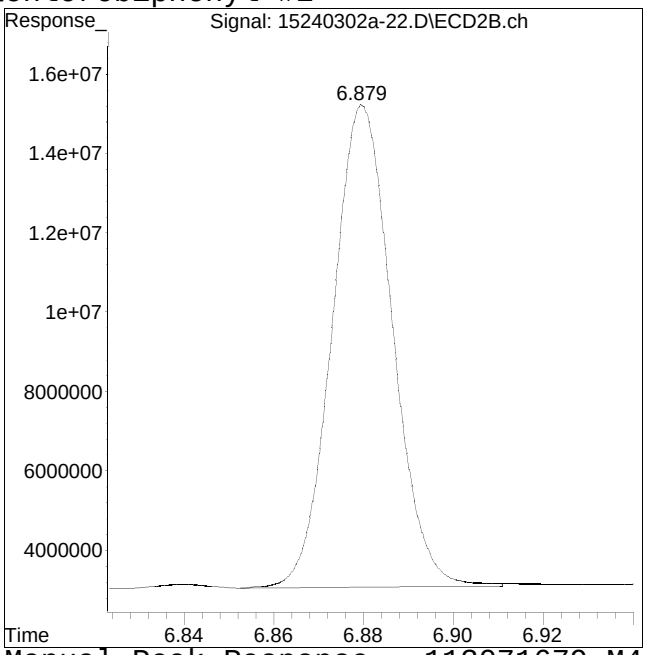
Original Peak Response = 152360060 Manual Peak Response = 149521766 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240302QMethod : P15_pest_2024_01_08_ugL_
Data File : 15240302a-22.D Operator : Pest15:mmg
Date Inj'd : 3/2/2024 7:54 pm Instrument : Pest 15
Sample : L2410579-03,42,, Quant Date : 3/3/2024 9:21 am

Compound #65: Decachlorobiphenyl #2



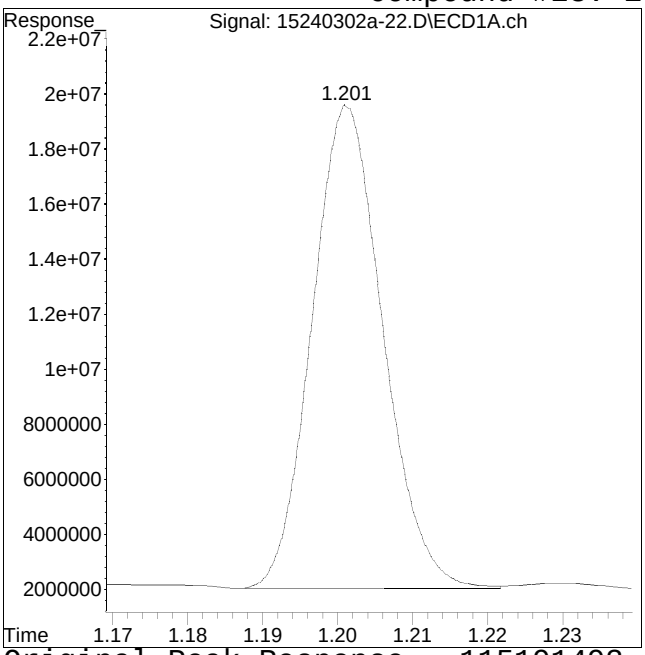


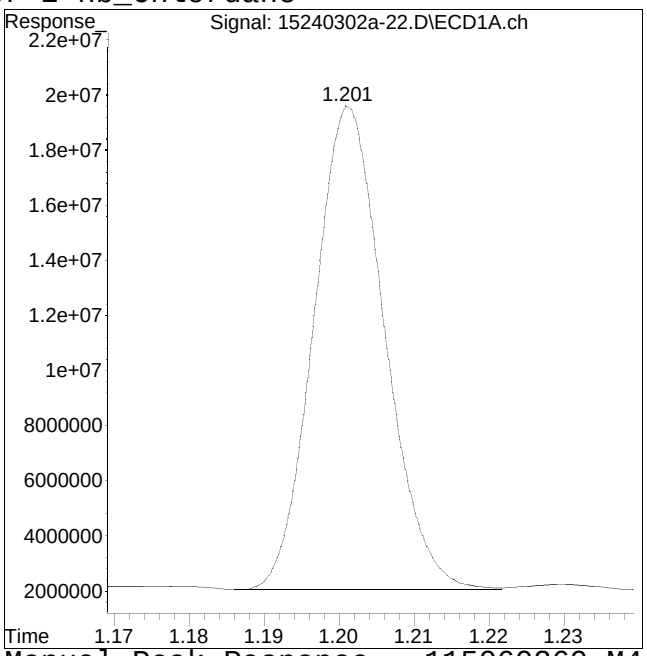
Original Peak Response = 115299513 Manual Peak Response = 113071679 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240302QMethod : P15_pest_2024_01_08_ugL_
Data File : 15240302a-22.D Operator : Pest15:mmg
Date Inj'd : 3/2/2024 7:54 pm Instrument : Pest 15
Sample : L2410579-03,42,, Quant Date : 3/3/2024 9:21 am

Compound #28: 1-br-2-nb_Chlordane



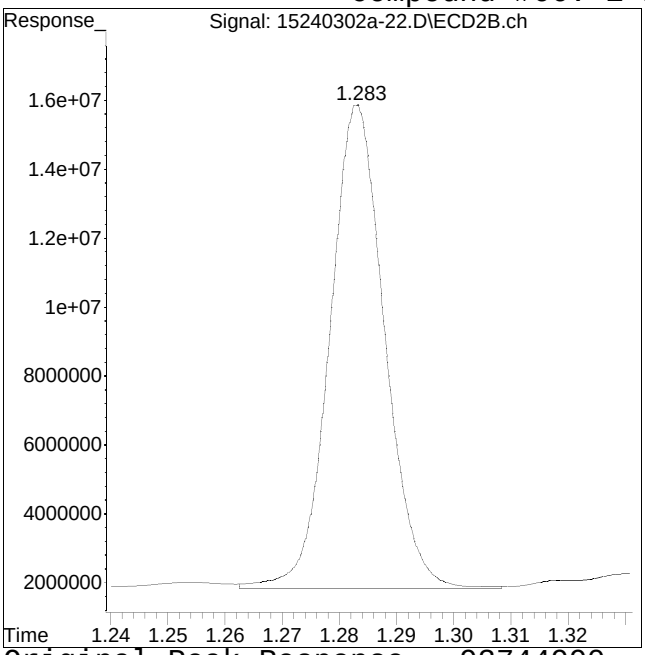


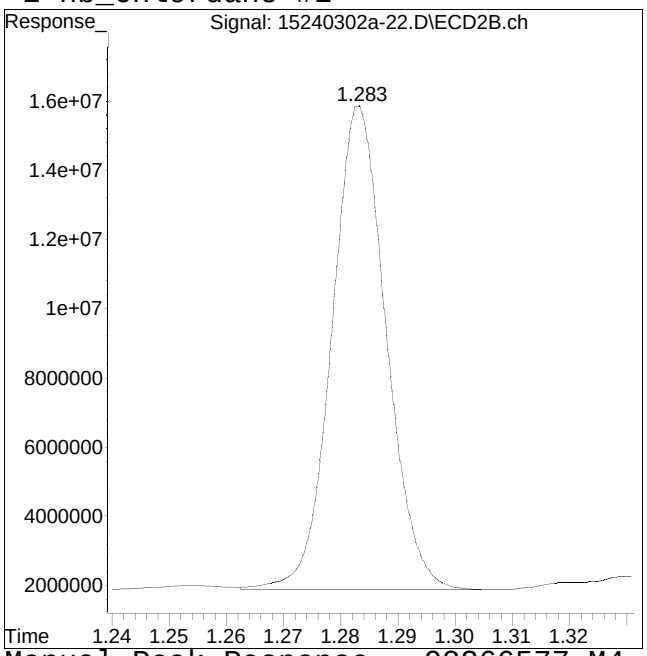
Original Peak Response = 115191493 Manual Peak Response = 115060260 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240302QMethod : P15_pest_2024_01_08_ugL_
Data File : 15240302a-22.D Operator : Pest15:mmg
Date Inj'd : 3/2/2024 7:54 pm Instrument : Pest 15
Sample : L2410579-03,42,, Quant Date : 3/3/2024 9:21 am

Compound #66: 1-br-2-nb_Chlordane #2



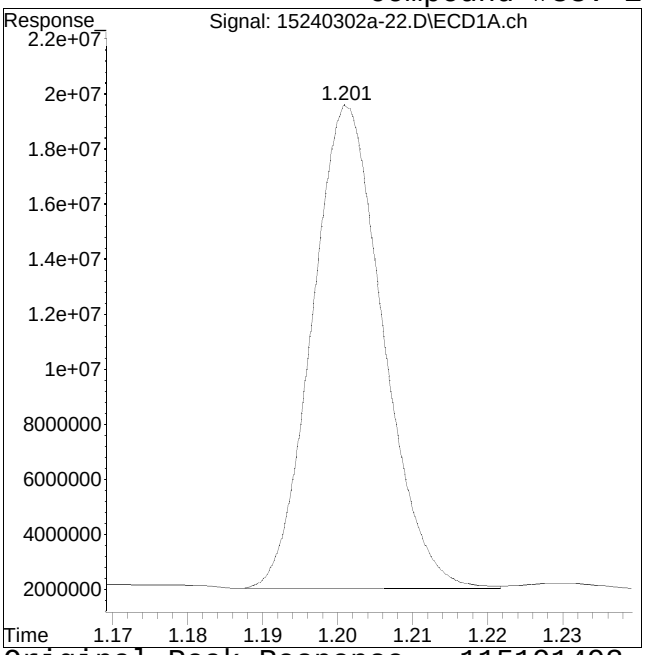


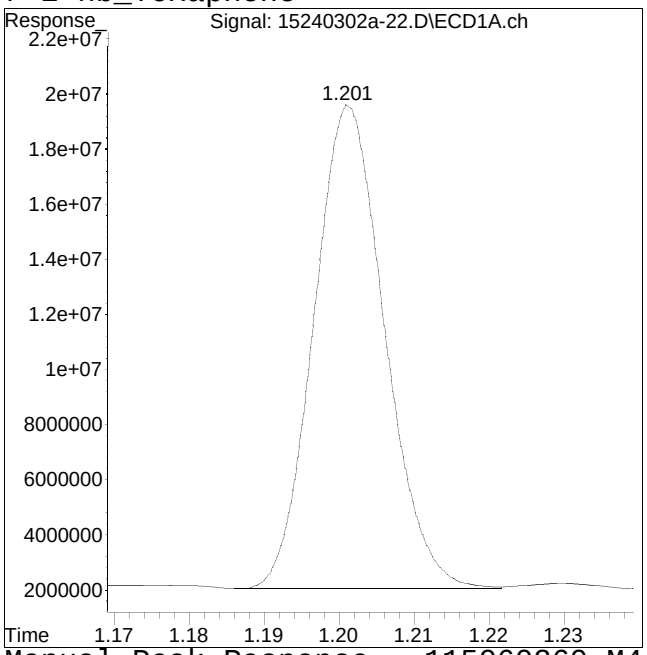
Original Peak Response = 93744990 Manual Peak Response = 92266577 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240302QMethod : P15_pest_2024_01_08_ugL_
Data File : 15240302a-22.D Operator : Pest15:mmg
Date Inj'd : 3/2/2024 7:54 pm Instrument : Pest 15
Sample : L2410579-03,42,, Quant Date : 3/3/2024 9:21 am

Compound #33: 1-br-2-nb_Toxaphene



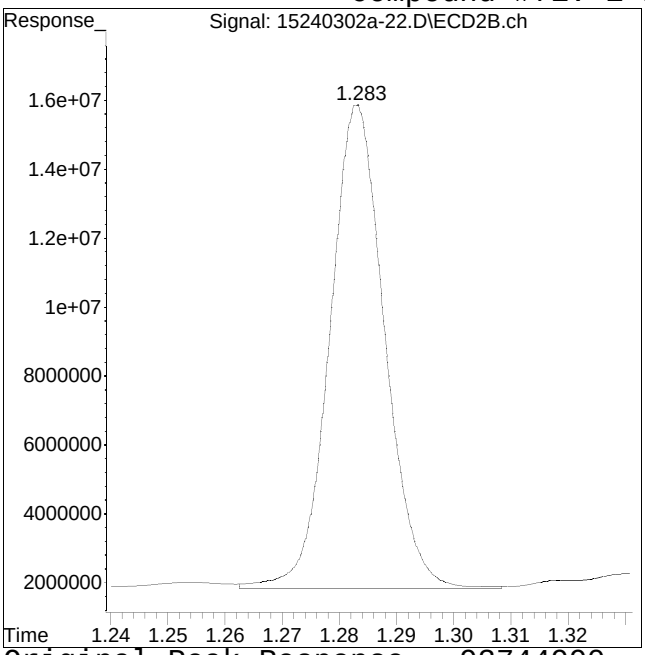


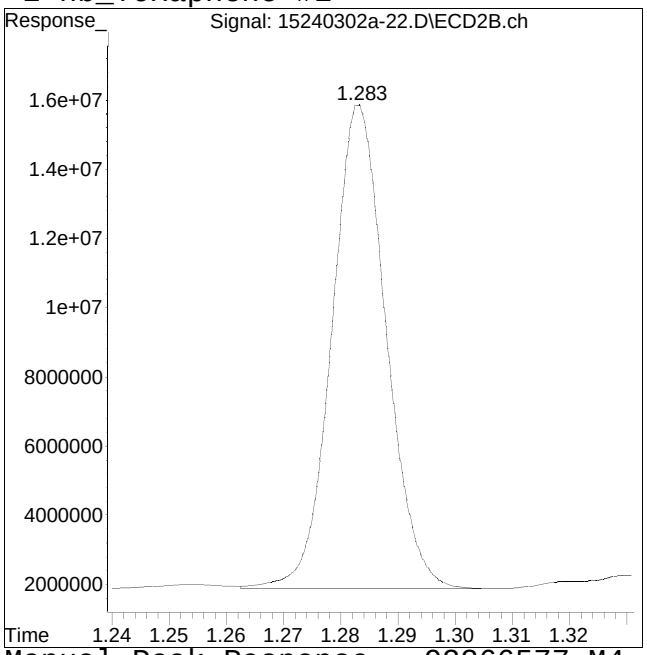
Original Peak Response = 115191493 Manual Peak Response = 115060260 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240302QMethod : P15_pest_2024_01_08_ugL_
Data File : 15240302a-22.D Operator : Pest15:mmg
Date Inj'd : 3/2/2024 7:54 pm Instrument : Pest 15
Sample : L2410579-03,42,, Quant Date : 3/3/2024 9:21 am

Compound #71: 1-br-2-nb_Toxaphene #2





Original Peak Response = 93744990 Manual Peak Response = 92266577 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest15\2024\240302A\
Data File : 15240302a-23.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 Mar 2024 8:05 pm
Operator : Pest15:mmg
Sample : L2410579-06,42,,
Misc : wg1891515,WG1891324,ical20776
ALS Vial : 23 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Mar 04 11:46:12 2024
Quant Method : I:\PEST\Pest15\2024\240302A\P15_pest_2024_01_08_ugL_ICAL2077
... 6.m
Quant Title : pest
QLast Update : Sat Mar 02 17:23:07 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest15\2024\240302A\15240302a-03.D
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards							
1) i	1-br-2-nb_Pe	1.205	1.286	112.0E6	88829559	25.000M3	25.000M4
	Standard Area 1 : #1 = 112632209				Recovery =	99.46%	
	Standard Area 1 : #2 = 89452580				Recovery =	99.30%	
28) i	1-br-2-nb_Ch	1.205	1.286	112.0E6	88829559	25.000M3	25.000M4
33) i	1-br-2-nb_To	1.205	1.286	112.0E6	88829559	25.000M3	25.000M4
System Monitoring Compounds							
2) s	2,4,5,6-Tetr	1.570	1.782	185.6E6	142.3E6	39.103M3	36.362M3
	Spiked Amount 50.000	Range 30 - 150			Recovery =	78.21%	72.72%
27) s	Decachlorobi	6.237	6.880	169.7E6	128.6E6	36.769M3	49.194M4
	Spiked Amount 50.000	Range 30 - 150			Recovery =	73.54%	98.39%
Target Compounds							
4)	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6)	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8)	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9)	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
12)	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13)	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14)	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest15\2024\240302A\
Data File : 15240302a-23.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 Mar 2024 8:05 pm
Operator : Pest15:mmg
Sample : L2410579-06,42,,
Misc : wg1891515,WG1891324,ical20776
ALS Vial : 23 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Mar 04 11:46:12 2024
Quant Method : I:\PEST\Pest15\2024\240302A\P15_pest_2024_01_08_ugL_ICAL2077
... 6.m
Quant Title : pest
QLast Update : Sat Mar 02 17:23:07 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest15\2024\240302A\15240302a-03.D
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
17)	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18)	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22)	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d
23)	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
25)	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26)	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum chlordane-1			0	0	N.D.	N.D.
	Average chlordane-1					0.000	0.000
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum toxaphene-1			0	0	N.D.	N.D.
	Average toxaphene-1					0.000	0.000
	SemiQuant Compounds - Not Calibrated on this Instrument						
	Sum toxaphene-1			0	0	N.D.	N.D.
	Average toxaphene-1					0.000	0.000

(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Data Path : I:\PEST\Pest15\2024\240302A\
Data File : 15240302a-23.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 Mar 2024 8:05 pm
Operator : Pest15:mmg
Sample : L2410579-06,42,,
Misc : wg1891515,WG1891324,ical20776
ALS Vial : 23 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Mar 04 11:46:12 2024
Quant Method : I:\PEST\Pest15\2024\240302A\P15_pest_2024_01_08_ugL_ICAL2077
... 6.m
Quant Title : pest
QLast Update : Sat Mar 02 17:23:07 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest15\2024\240302A\15240302a-03.D
Sub List : Default - All compounds listed

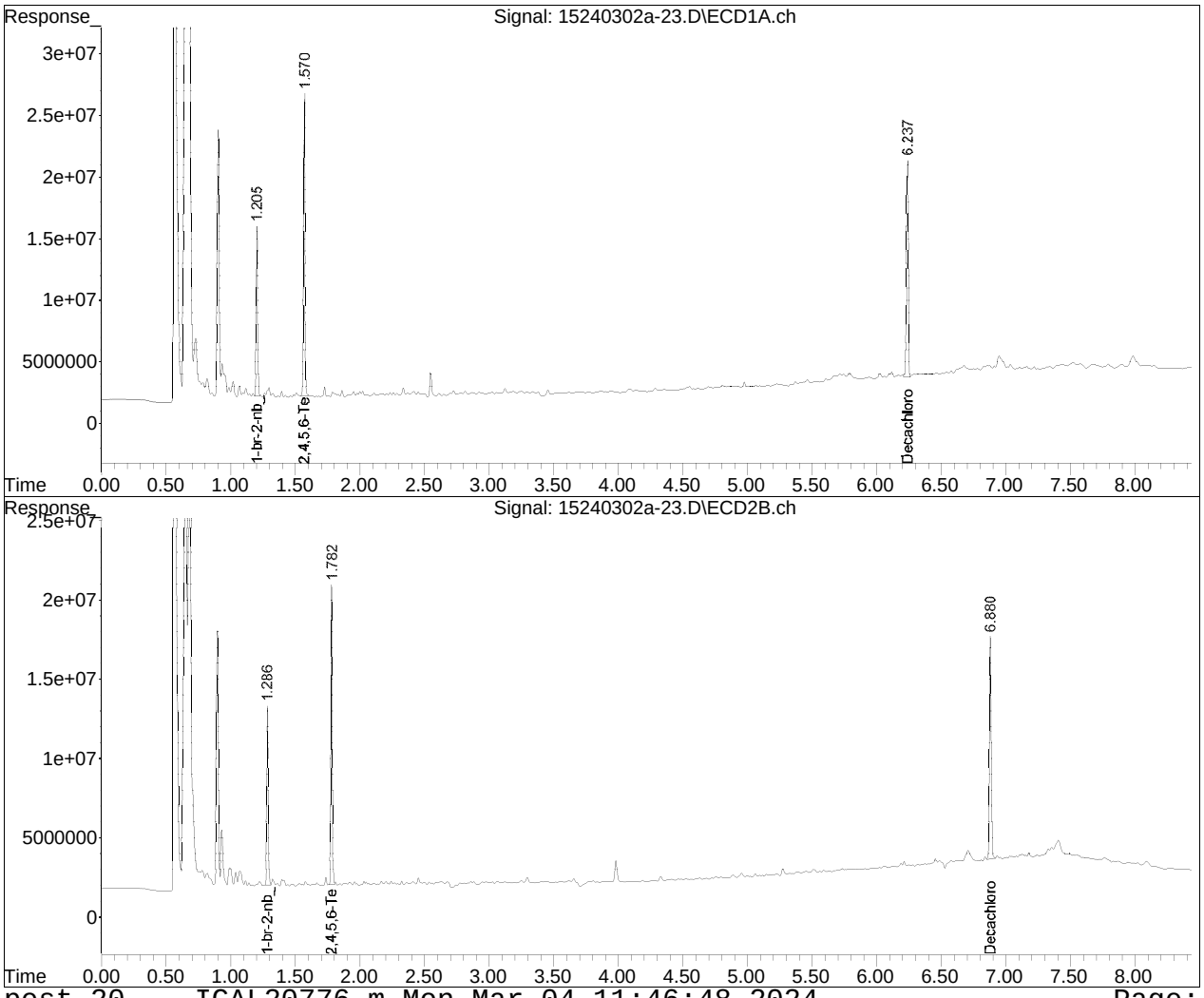
Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l

Sub List : Default - All compounds listedA\15240302a-03.D••

Data Path : I:\PEST\Pest15\2024\240302A\
Data File : 15240302a-23.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 Mar 2024 8:05 pm
Operator : Pest15:mmg
Sample : L2410579-06,42,,
Misc : wg1891515,WG1891324,ical20776
ALS Vial : 23 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Mar 04 11:46:12 2024
Quant Method : I:\PEST\Pest15\2024\240302A\P15_pest_2024_01_08_ugL_ICAL2077
... 6.m
Quant Title : pest
QLast Update : Sat Mar 02 17:23:07 2024
Response via : Initial Calibration
Integrator: ChemStation

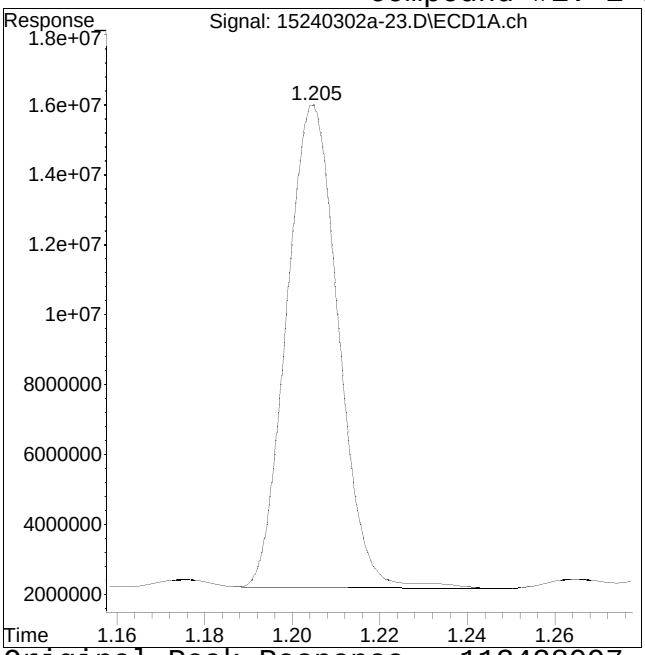
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

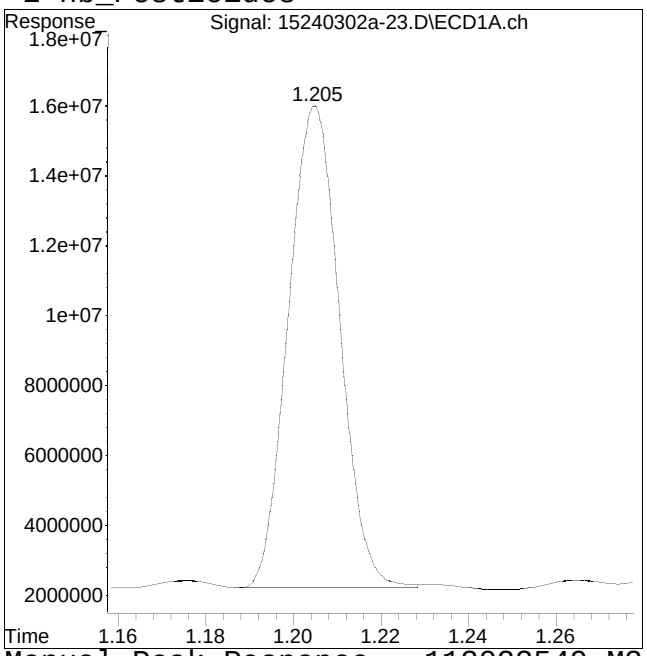


Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240302QMethod : P15_pest_2024_01_08_ugL_
Data File : 15240302a-23.D Operator : Pest15:mmg
Date Inj'd : 3/2/2024 8:05 pm Instrument : Pest 15
Sample : L2410579-06,42,, Quant Date : 3/3/2024 9:21 am

Compound #1: 1-br-2-nb_Pesticides



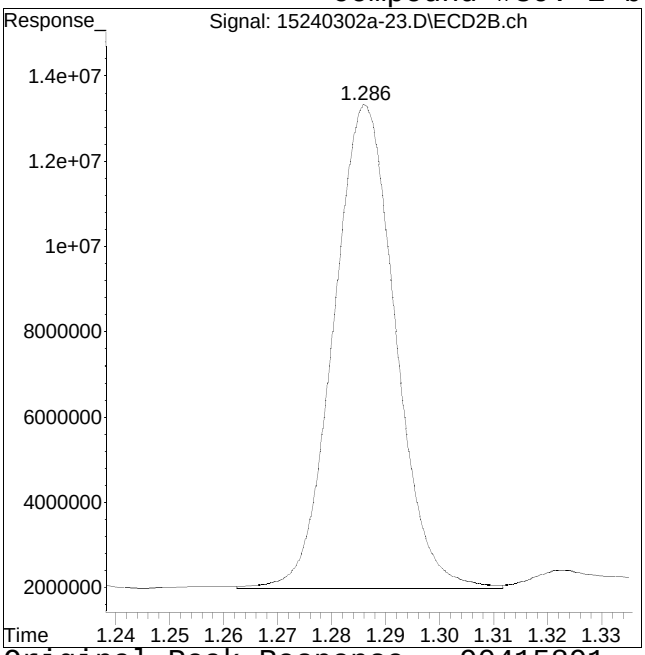


Original Peak Response = 113428997 Manual Peak Response = 112023549 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

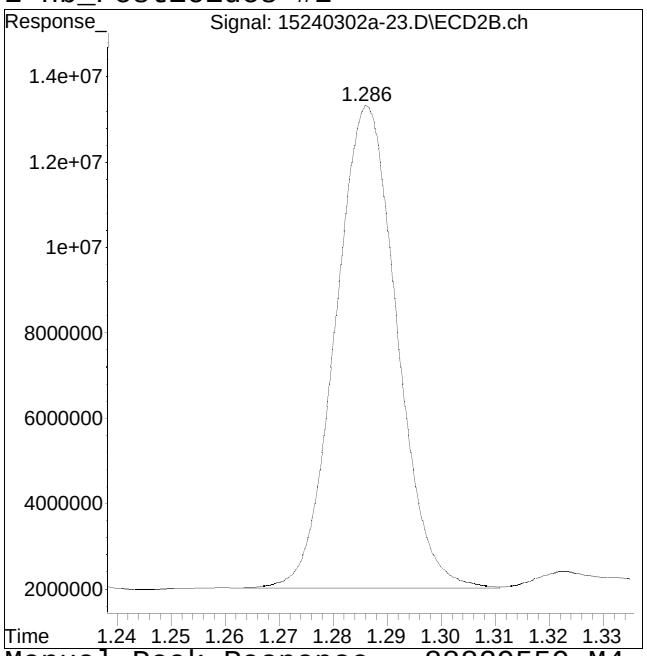
Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240302QMethod : P15_pest_2024_01_08_ugL_
Data File : 15240302a-23.D Operator : Pest15:mmg
Date Inj'd : 3/2/2024 8:05 pm Instrument : Pest 15
Sample : L2410579-06,42,, Quant Date : 3/3/2024 9:21 am

Compound #39: 1-br-2-nb_Pesticides #2



Original Peak Response = 90415891



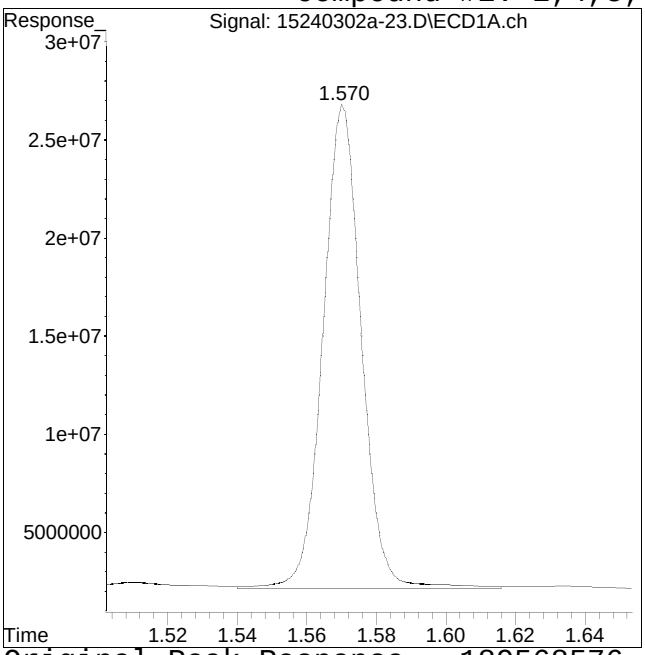
Manual Peak Response = 88829559 M4

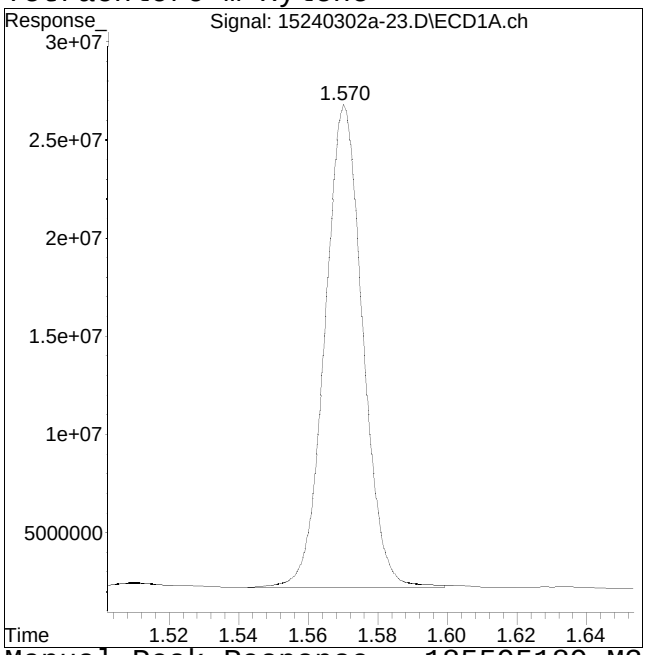
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240302QMethod : P15_pest_2024_01_08_ugL_
Data File : 15240302a-23.D Operator : Pest15:mmg
Date Inj'd : 3/2/2024 8:05 pm Instrument : Pest 15
Sample : L2410579-06,42,, Quant Date : 3/3/2024 9:21 am

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



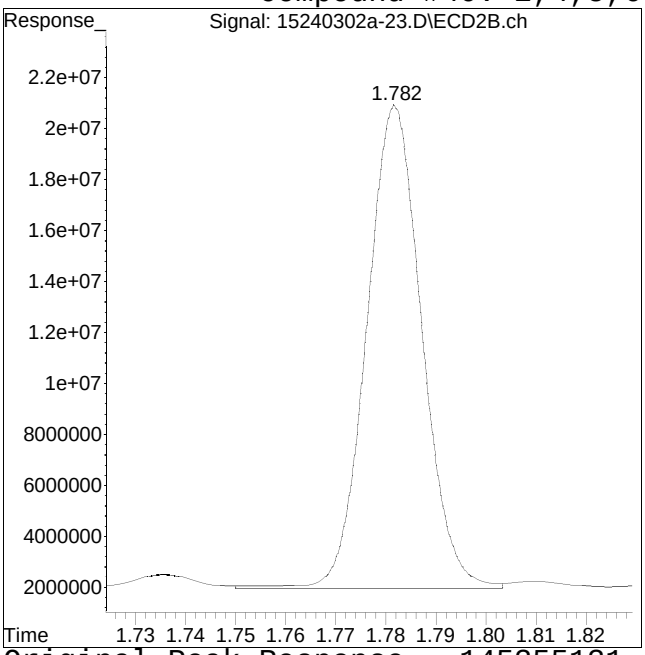


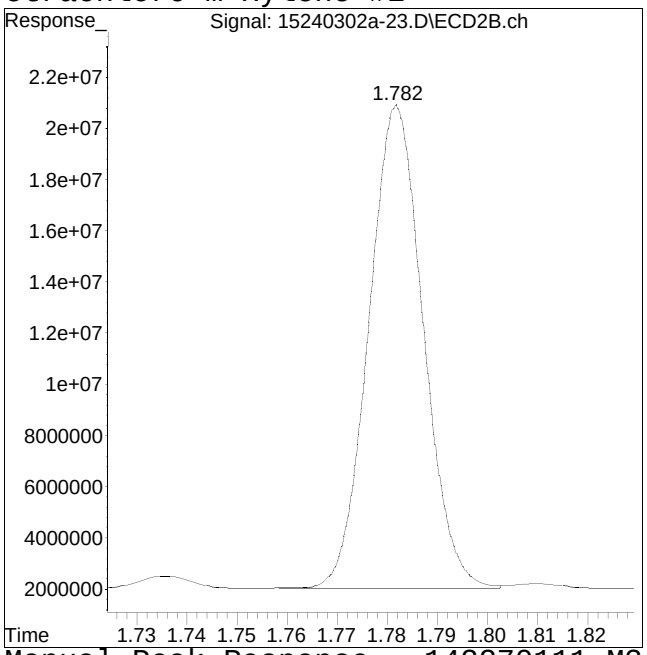
Original Peak Response = 189568576 Manual Peak Response = 185595189 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240302QMethod : P15_pest_2024_01_08_ugL_
Data File : 15240302a-23.D Operator : Pest15:mmg
Date Inj'd : 3/2/2024 8:05 pm Instrument : Pest 15
Sample : L2410579-06,42,, Quant Date : 3/3/2024 9:21 am

Compound #40: 2,4,5,6-Tetrachloro-m-xylene #2



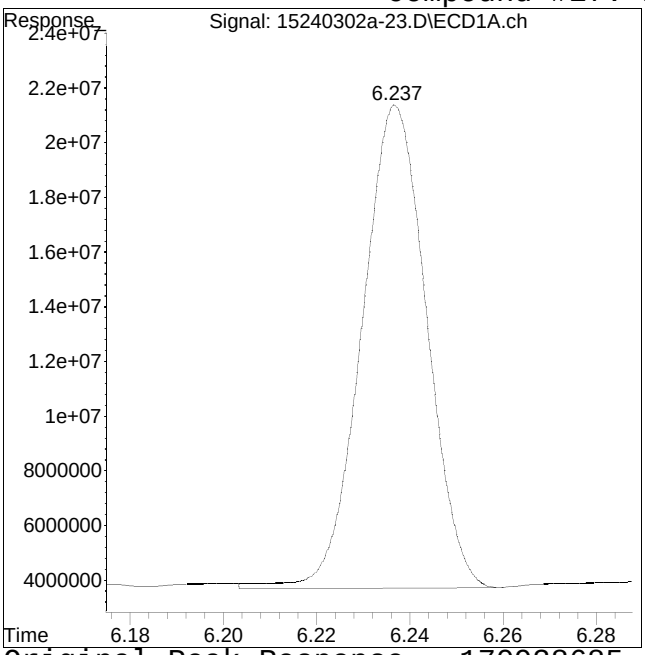


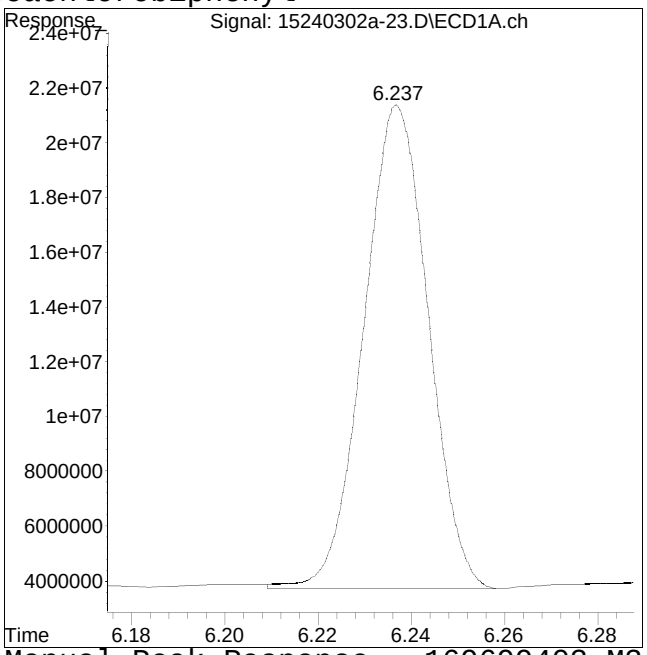
Original Peak Response = 145355131 Manual Peak Response = 142270111 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240302QMethod : P15_pest_2024_01_08_ugL_
Data File : 15240302a-23.D Operator : Pest15:mmg
Date Inj'd : 3/2/2024 8:05 pm Instrument : Pest 15
Sample : L2410579-06,42,, Quant Date : 3/3/2024 9:21 am

Compound #27: Decachlorobiphenyl



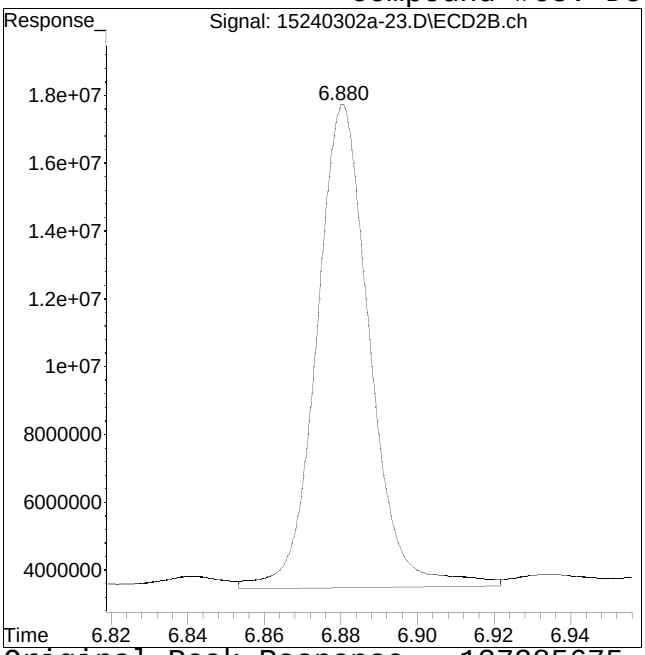


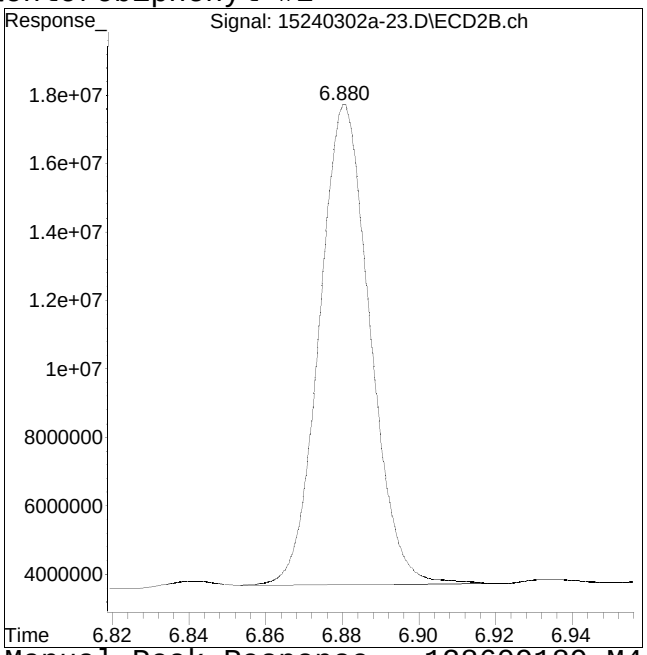
Original Peak Response = 170938685 Manual Peak Response = 169699403 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240302QMethod : P15_pest_2024_01_08_ugL_
Data File : 15240302a-23.D Operator : Pest15:mmg
Date Inj'd : 3/2/2024 8:05 pm Instrument : Pest 15
Sample : L2410579-06,42,, Quant Date : 3/3/2024 9:21 am

Compound #65: Decachlorobiphenyl #2



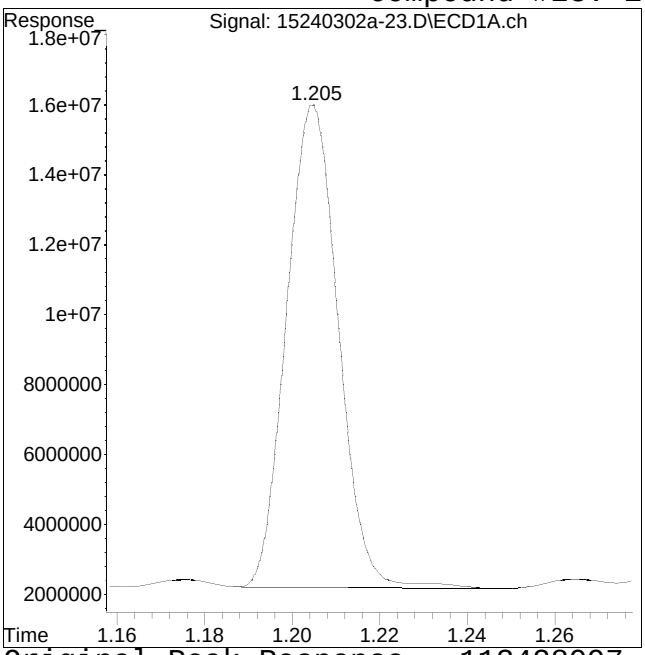


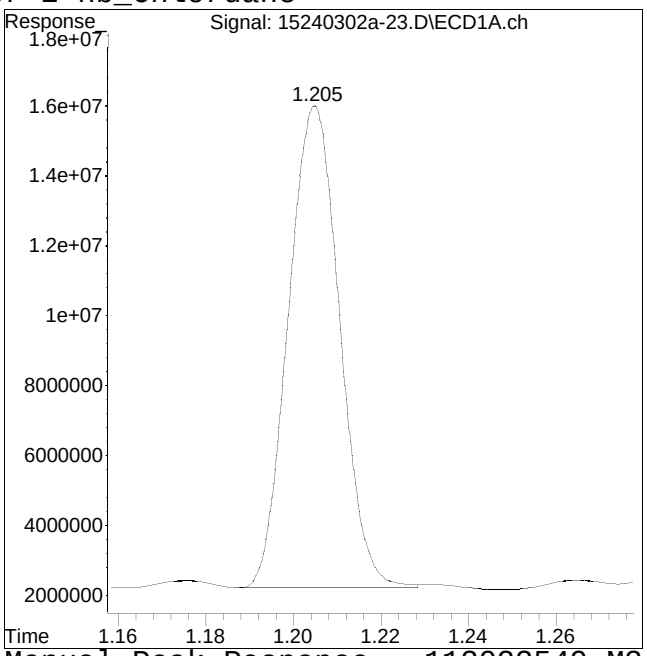
Original Peak Response = 137385675 Manual Peak Response = 128609189 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240302QMethod : P15_pest_2024_01_08_ugL_
Data File : 15240302a-23.D Operator : Pest15:mmg
Date Inj'd : 3/2/2024 8:05 pm Instrument : Pest 15
Sample : L2410579-06,42,, Quant Date : 3/3/2024 9:21 am

Compound #28: 1-br-2-nb_Chlordane



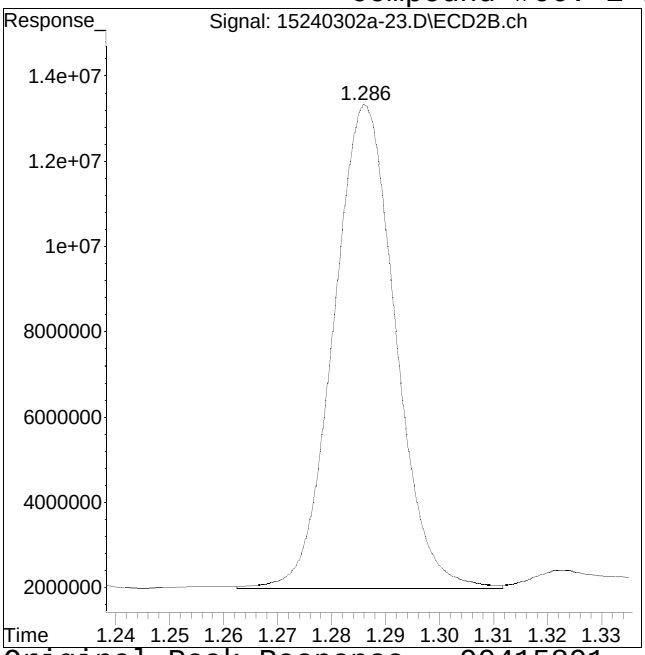


Original Peak Response = 113428997 Manual Peak Response = 112023549 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

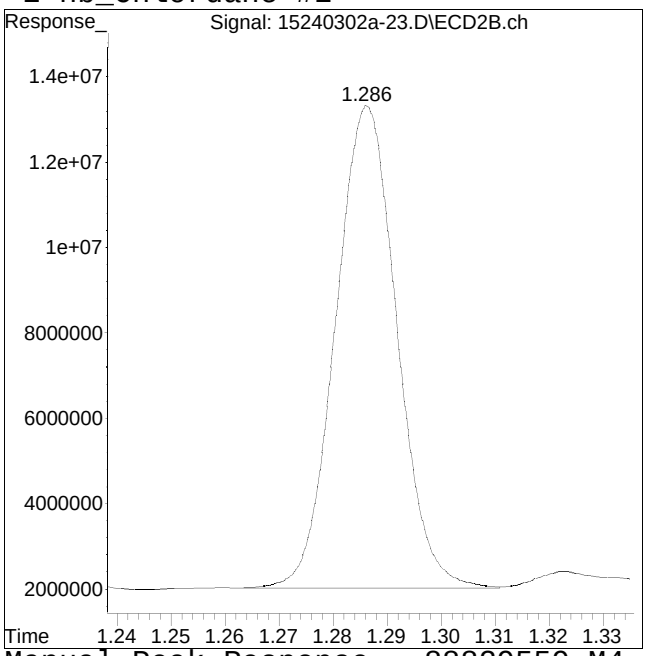
Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240302QMethod : P15_pest_2024_01_08_ugL_
Data File : 15240302a-23.D Operator : Pest15:mmg
Date Inj'd : 3/2/2024 8:05 pm Instrument : Pest 15
Sample : L2410579-06,42,, Quant Date : 3/3/2024 9:21 am

Compound #66: 1-br-2-nb_Chlordane #2



Original Peak Response = 90415891



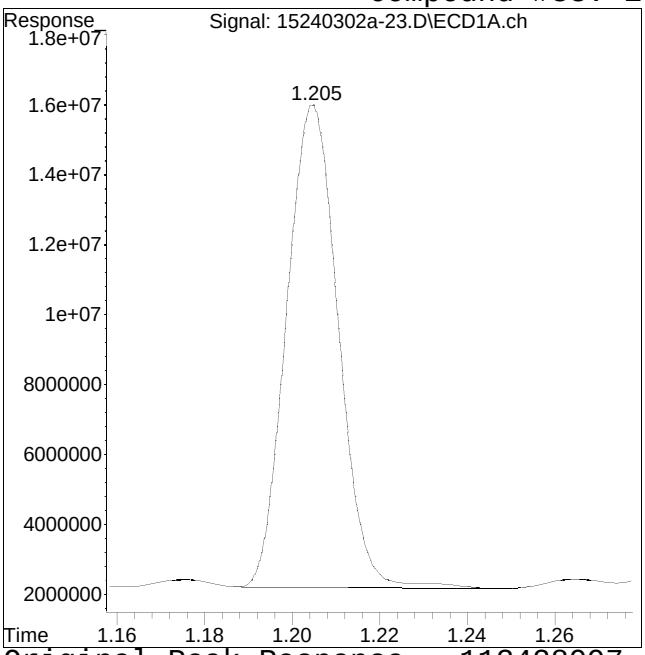
Manual Peak Response = 88829559 M4

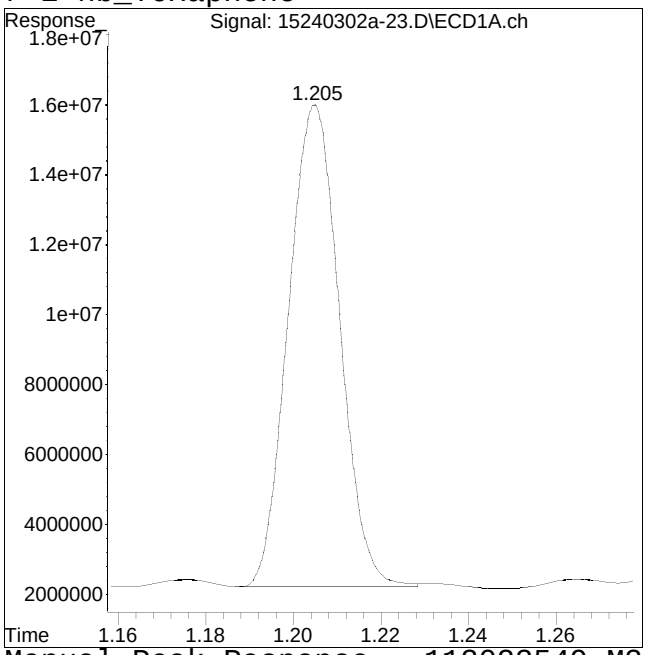
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240302QMethod : P15_pest_2024_01_08_ugL_
Data File : 15240302a-23.D Operator : Pest15:mmg
Date Inj'd : 3/2/2024 8:05 pm Instrument : Pest 15
Sample : L2410579-06,42,, Quant Date : 3/3/2024 9:21 am

Compound #33: 1-br-2-nb_Toxaphene



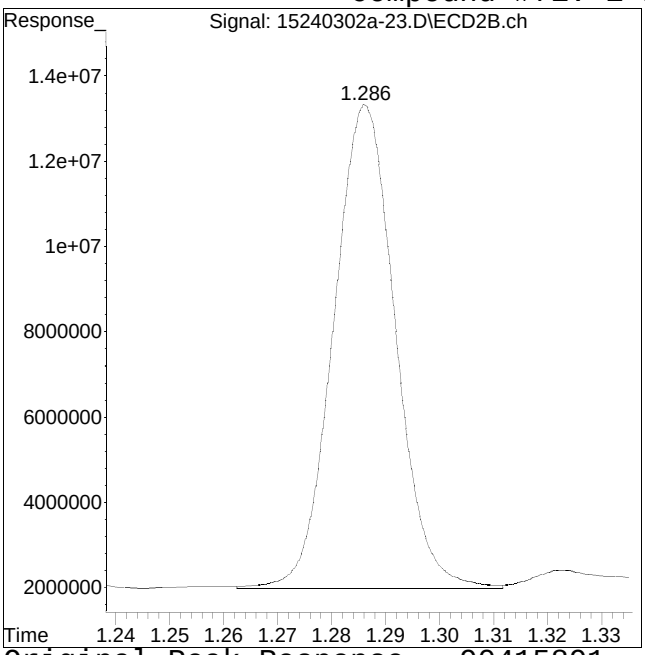


Original Peak Response = 113428997 Manual Peak Response = 112023549 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

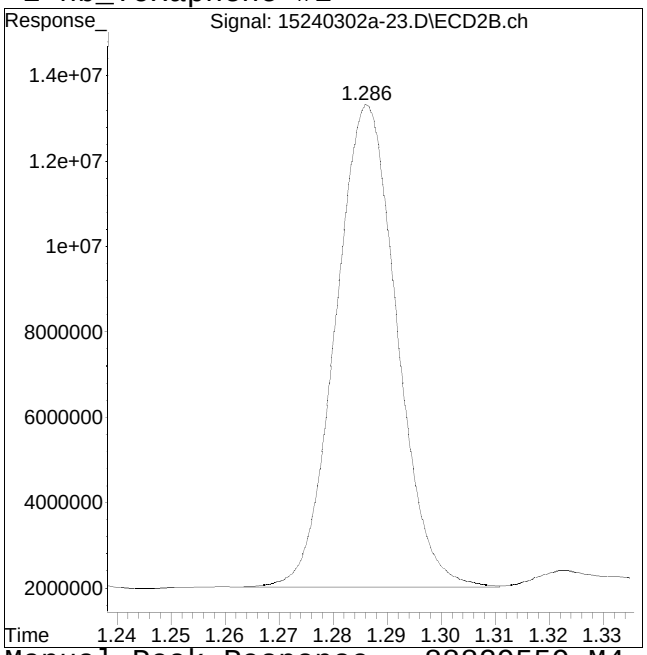
Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240302QMethod : P15_pest_2024_01_08_ugL_
Data File : 15240302a-23.D Operator : Pest15:mmg
Date Inj'd : 3/2/2024 8:05 pm Instrument : Pest 15
Sample : L2410579-06,42,, Quant Date : 3/3/2024 9:21 am

Compound #71: 1-br-2-nb_Toxaphene #2



Original Peak Response = 90415891



Manual Peak Response = 88829559 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest15\2024\240302A\
Data File : 15240302a-24.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 Mar 2024 8:16 pm
Operator : Pest15:mmg
Sample : L2410579-07,42,,
Misc : wg1891515,WG1891324,ical20776
ALS Vial : 24 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Mar 04 11:47:35 2024
Quant Method : I:\PEST\Pest15\2024\240302A\P15_pest_2024_01_08_ugL_ICAL2077
... 6.m
Quant Title : pest
QLast Update : Sat Mar 02 17:23:07 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest15\2024\240302A\15240302a-03.D
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards							
1) i	1-br-2-nb_Pe	1.203	1.285	110.5E6	88103896	25.000M3	25.000M4
	Standard Area 1 : #1 = 112632209				Recovery =	98.12%	
	Standard Area 1 : #2 = 89452580				Recovery =	98.49%	
28) i	1-br-2-nb_Ch	1.203	1.285	110.5E6	88103896	25.000M3	25.000M4
33) i	1-br-2-nb_To	1.203	1.285	110.5E6	88103896	25.000M3	25.000M4
System Monitoring Compounds							
2) s	2,4,5,6-Tetr	1.570	1.781	190.3E6	144.4E6	40.648M4	37.219M4
	Spiked Amount 50.000	Range 30 - 150			Recovery =	81.30%	74.44%
27) s	Decachlorobi	6.238	6.882	174.6E6	131.0E6	38.338M4	50.576M3
	Spiked Amount 50.000	Range 30 - 150			Recovery =	76.68%	101.15%
Target Compounds							
4)	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6)	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8)	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9)	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
12)	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13)	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14)	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest15\2024\240302A\
Data File : 15240302a-24.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 Mar 2024 8:16 pm
Operator : Pest15:mmg
Sample : L2410579-07,42,,
Misc : wg1891515,WG1891324,ical20776
ALS Vial : 24 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Mar 04 11:47:35 2024
Quant Method : I:\PEST\Pest15\2024\240302A\P15_pest_2024_01_08_ugL_ICAL2077
... 6.m
Quant Title : pest
QLast Update : Sat Mar 02 17:23:07 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest15\2024\240302A\15240302a-03.D
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
17)	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18)	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22)	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d
23)	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
25)	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26)	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum chlordane-1			0	0	N.D.	N.D.
	Average chlordane-1					0.000	0.000
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum toxaphene-1			0	0	N.D.	N.D.
	Average toxaphene-1					0.000	0.000
	SemiQuant Compounds - Not Calibrated on this Instrument						
	Sum toxaphene-1			0	0	N.D.	N.D.
	Average toxaphene-1					0.000	0.000

(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Data Path : I:\PEST\Pest15\2024\240302A\
Data File : 15240302a-24.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 Mar 2024 8:16 pm
Operator : Pest15:mmg
Sample : L2410579-07,42,,
Misc : wg1891515,WG1891324,ical20776
ALS Vial : 24 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Mar 04 11:47:35 2024
Quant Method : I:\PEST\Pest15\2024\240302A\P15_pest_2024_01_08_ugL_ICAL2077
... 6.m
Quant Title : pest
QLast Update : Sat Mar 02 17:23:07 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest15\2024\240302A\15240302a-03.D
Sub List : Default - All compounds listed

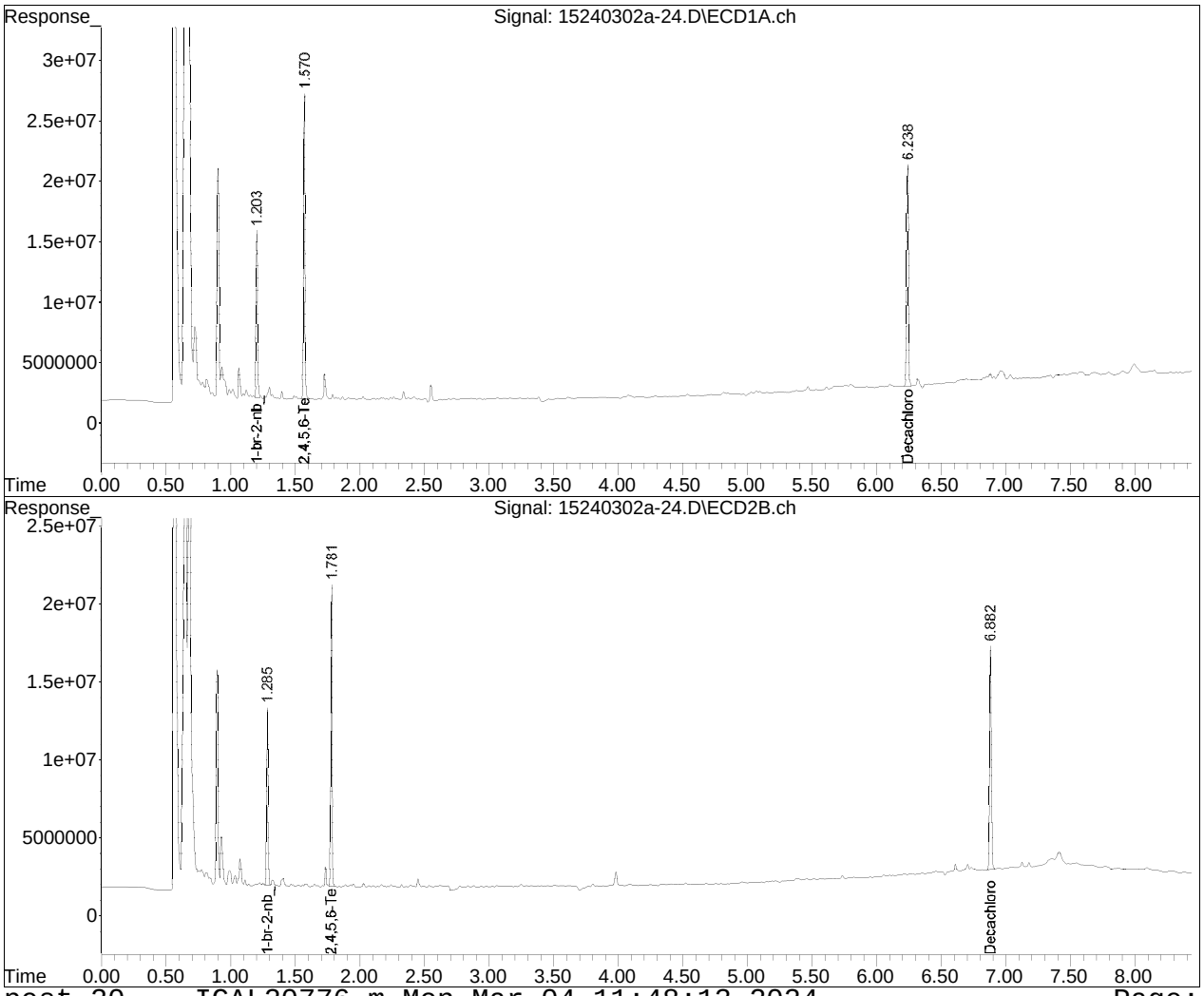
Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l

Sub List : Default - All compounds listedA\15240302a-03.D••

Data Path : I:\PEST\Pest15\2024\240302A\
Data File : 15240302a-24.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 Mar 2024 8:16 pm
Operator : Pest15:mmg
Sample : L2410579-07,42,,
Misc : wg1891515,WG1891324,ical20776
ALS Vial : 24 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Mar 04 11:47:35 2024
Quant Method : I:\PEST\Pest15\2024\240302A\P15_pest_2024_01_08_ugL_ICAL2077
... 6.m
Quant Title : pest
QLast Update : Sat Mar 02 17:23:07 2024
Response via : Initial Calibration
Integrator: ChemStation

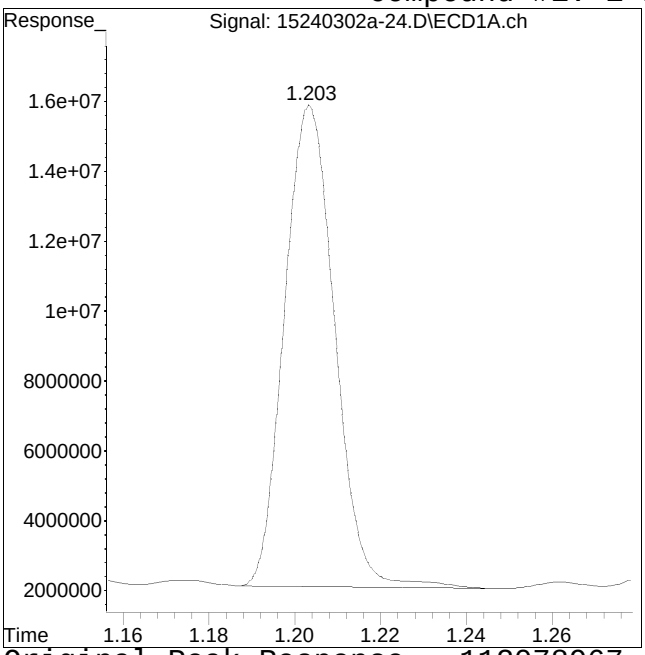
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

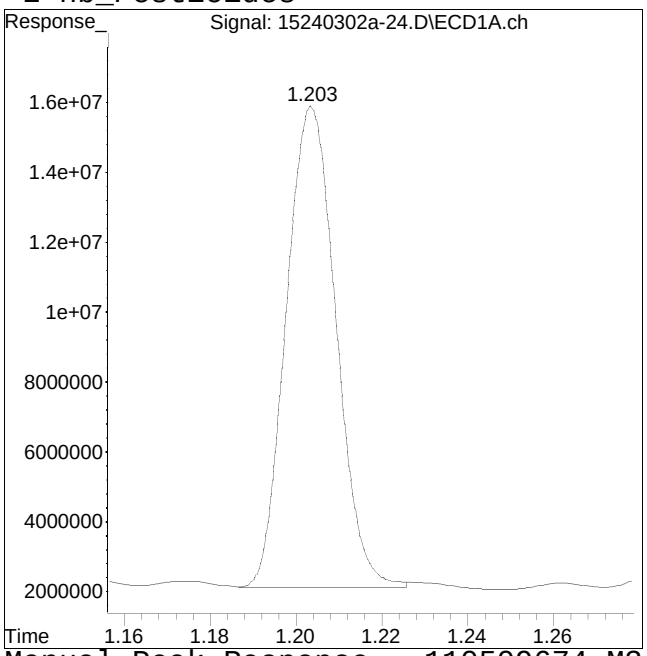


Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240302QMethod : P15_pest_2024_01_08_ugL_
Data File : 15240302a-24.D Operator : Pest15:mmg
Date Inj'd : 3/2/2024 8:16 pm Instrument : Pest 15
Sample : L2410579-07,42,, Quant Date : 3/3/2024 9:21 am

Compound #1: 1-br-2-nb_Pesticides



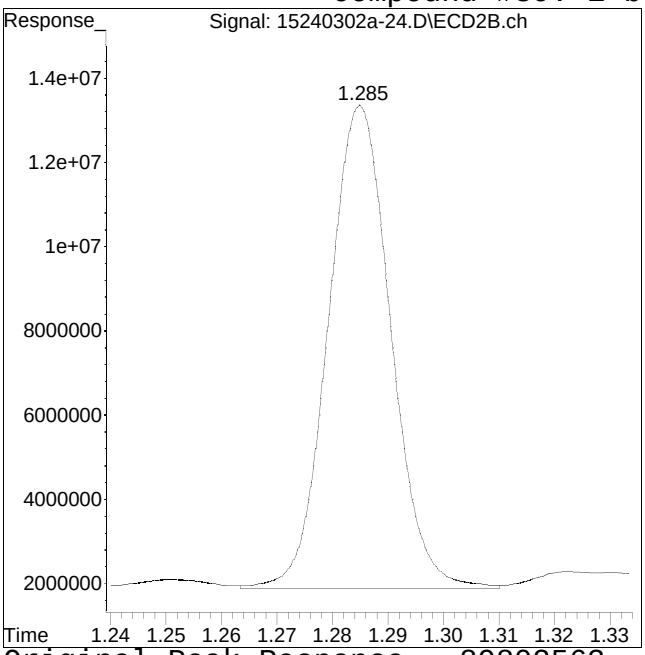


Original Peak Response = 112078967 Manual Peak Response = 110509674 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

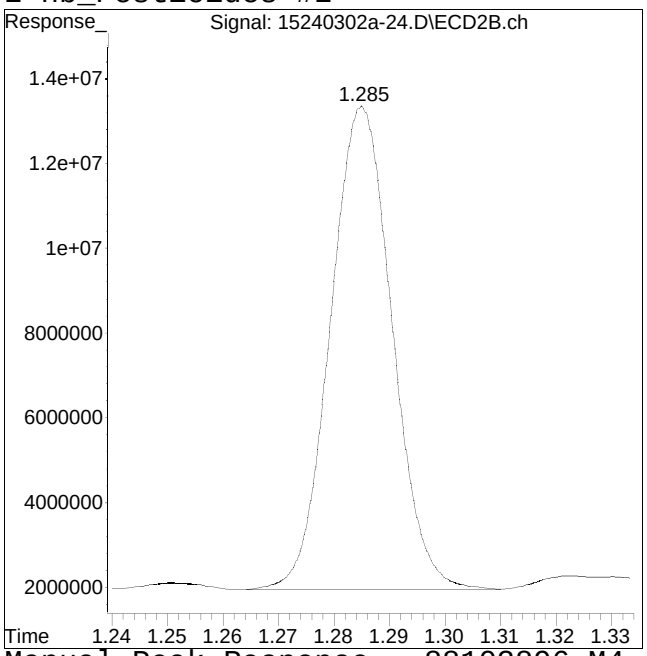
Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240302QMethod : P15_pest_2024_01_08_ugL_
Data File : 15240302a-24.D Operator : Pest15:mmg
Date Inj'd : 3/2/2024 8:16 pm Instrument : Pest 15
Sample : L2410579-07,42,, Quant Date : 3/3/2024 9:21 am

Compound #39: 1-br-2-nb_Pesticides #2



Original Peak Response = 89802563



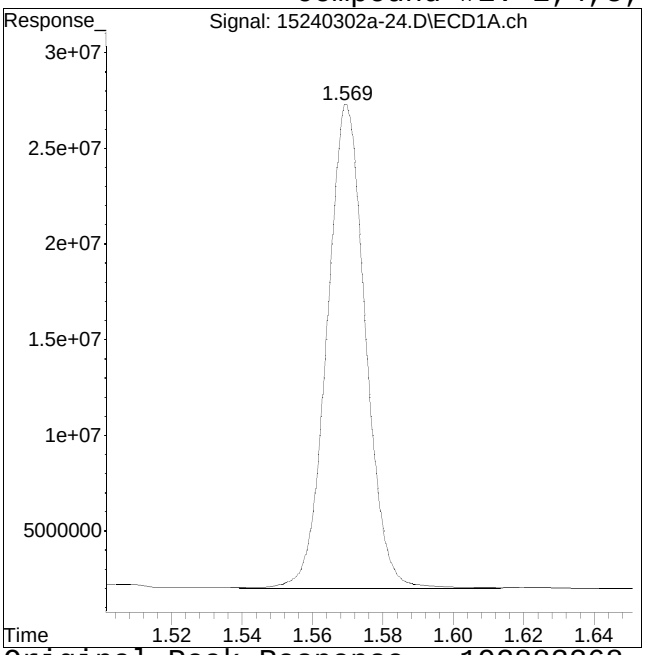
Manual Peak Response = 88103896 M4

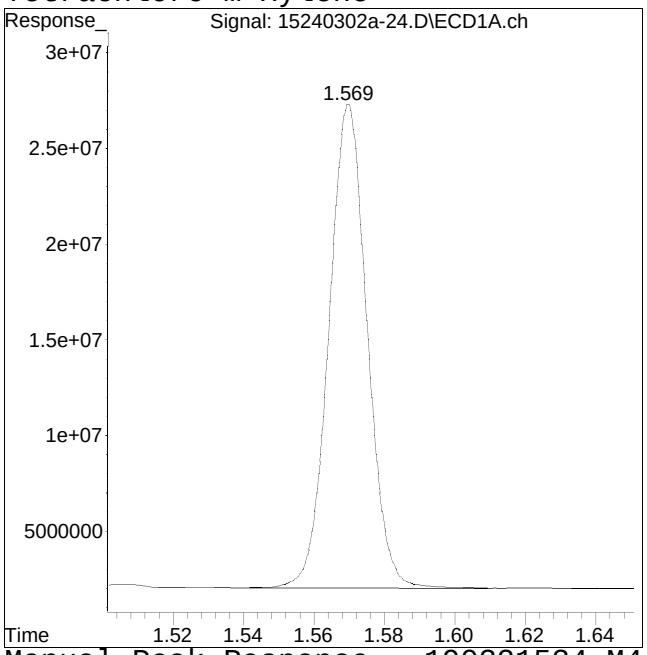
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240302QMethod : P15_pest_2024_01_08_ugL_
Data File : 15240302a-24.D Operator : Pest15:mmg
Date Inj'd : 3/2/2024 8:16 pm Instrument : Pest 15
Sample : L2410579-07,42,, Quant Date : 3/3/2024 9:21 am

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



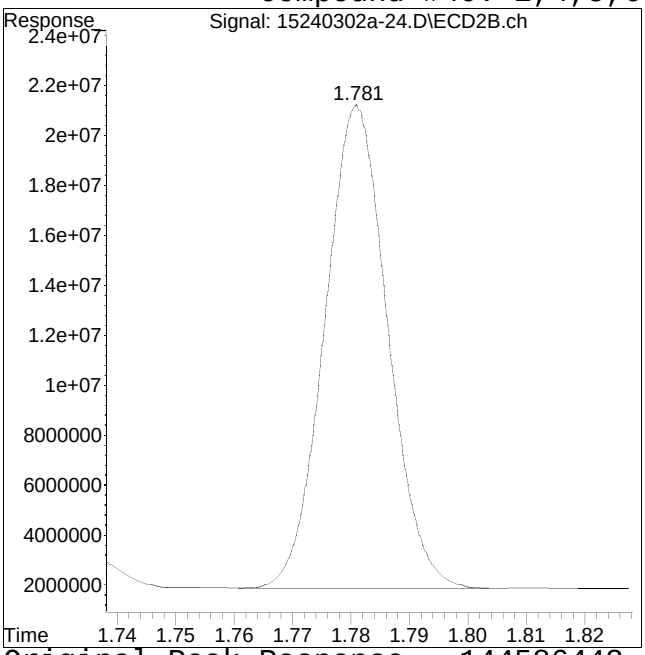


Original Peak Response = 192883368 Manual Peak Response = 190321534 M4
M4 = Poor automated baseline construction.

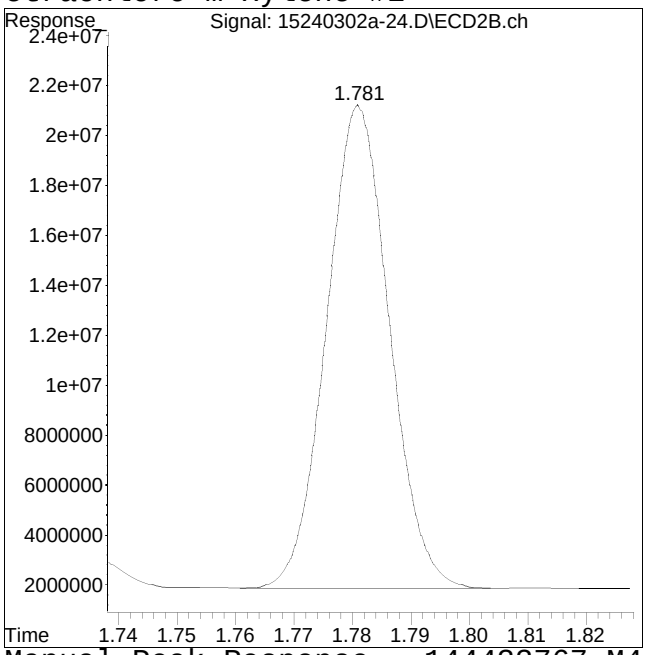
Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240302QMethod : P15_pest_2024_01_08_ugL_
Data File : 15240302a-24.D Operator : Pest15:mmg
Date Inj'd : 3/2/2024 8:16 pm Instrument : Pest 15
Sample : L2410579-07,42,, Quant Date : 3/3/2024 9:21 am

Compound #40: 2,4,5,6-Tetrachloro-m-xylene #2



Original Peak Response = 144586443



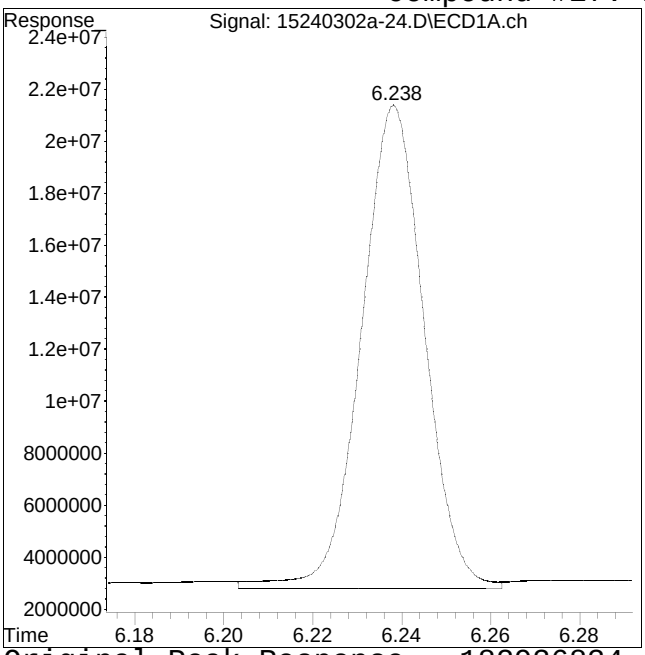
Manual Peak Response = 144433767 M4

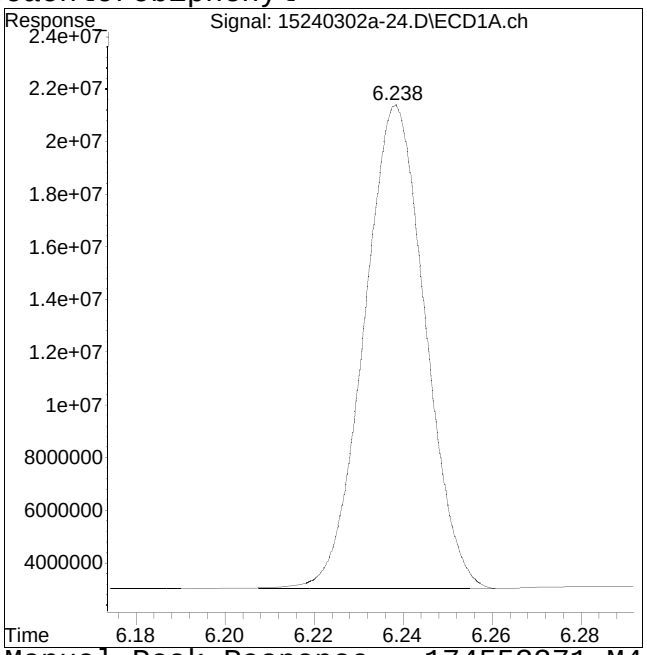
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240302QMethod : P15_pest_2024_01_08_ugL_
Data File : 15240302a-24.D Operator : Pest15:mmg
Date Inj'd : 3/2/2024 8:16 pm Instrument : Pest 15
Sample : L2410579-07,42,, Quant Date : 3/3/2024 9:21 am

Compound #27: Decachlorobiphenyl



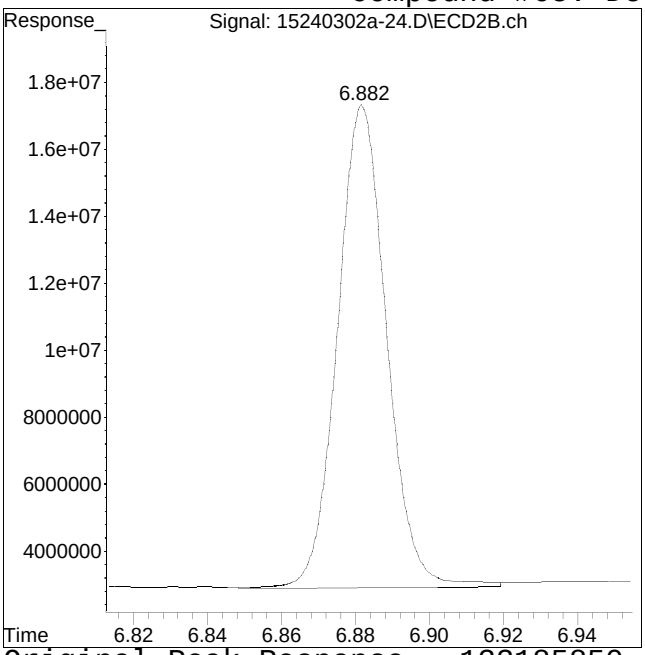


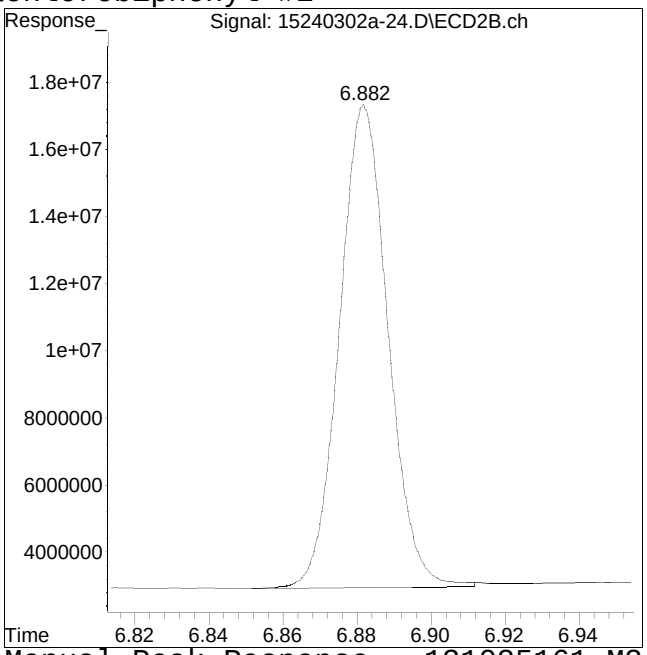
Original Peak Response = 182936834 Manual Peak Response = 174553371 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240302QMethod : P15_pest_2024_01_08_ugL_
Data File : 15240302a-24.D Operator : Pest15:mmg
Date Inj'd : 3/2/2024 8:16 pm Instrument : Pest 15
Sample : L2410579-07,42,, Quant Date : 3/3/2024 9:21 am

Compound #65: Decachlorobiphenyl #2



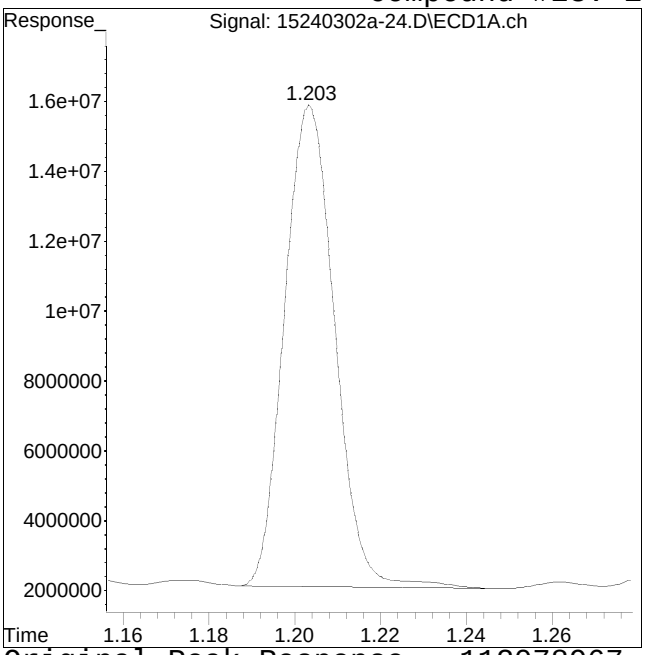


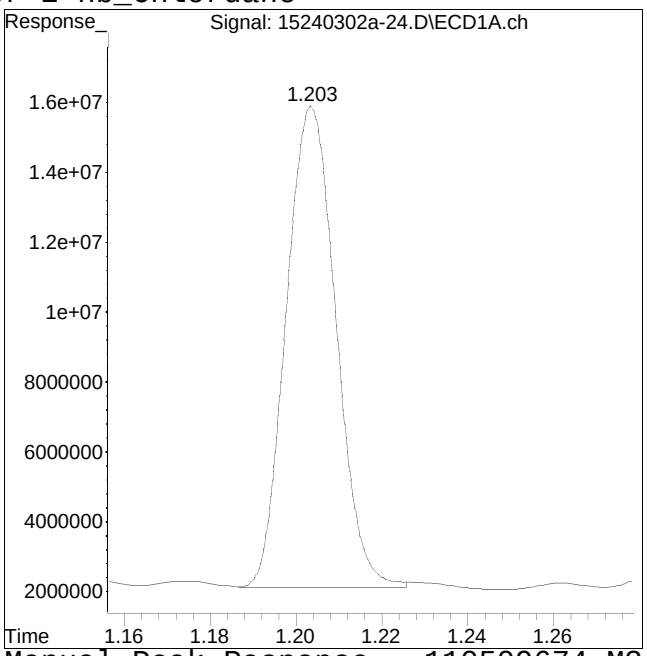
Original Peak Response = 133185850 Manual Peak Response = 131025161 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240302QMethod : P15_pest_2024_01_08_ugL_
Data File : 15240302a-24.D Operator : Pest15:mmg
Date Inj'd : 3/2/2024 8:16 pm Instrument : Pest 15
Sample : L2410579-07,42,, Quant Date : 3/3/2024 9:21 am

Compound #28: 1-br-2-nb_Chlordane



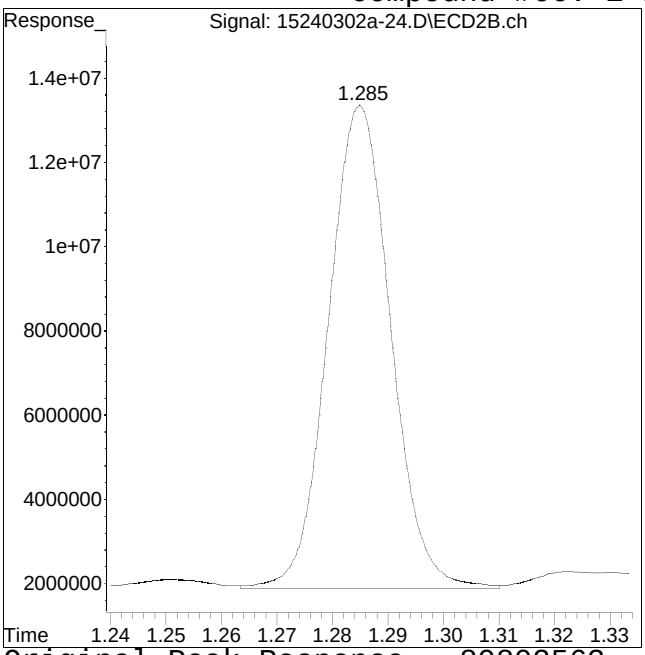


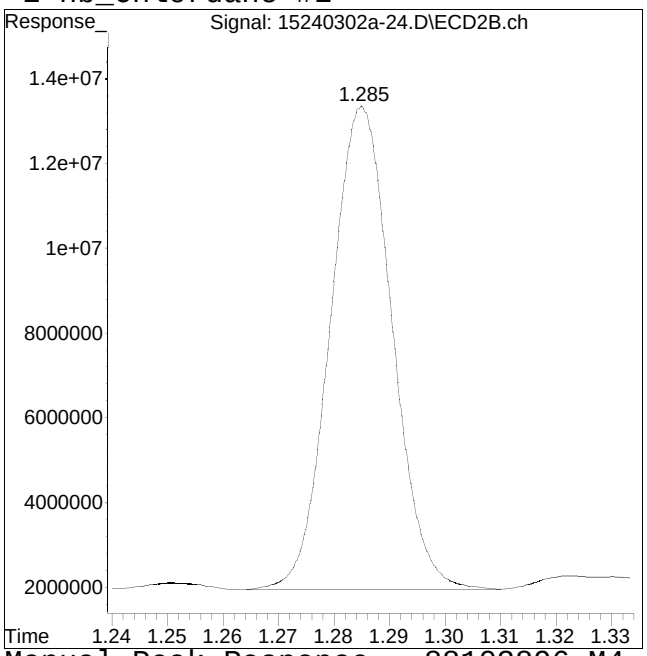
Original Peak Response = 112078967 Manual Peak Response = 110509674 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240302QMethod : P15_pest_2024_01_08_ugL_
Data File : 15240302a-24.D Operator : Pest15:mmg
Date Inj'd : 3/2/2024 8:16 pm Instrument : Pest 15
Sample : L2410579-07,42,, Quant Date : 3/3/2024 9:21 am

Compound #66: 1-br-2-nb_Chlordane #2



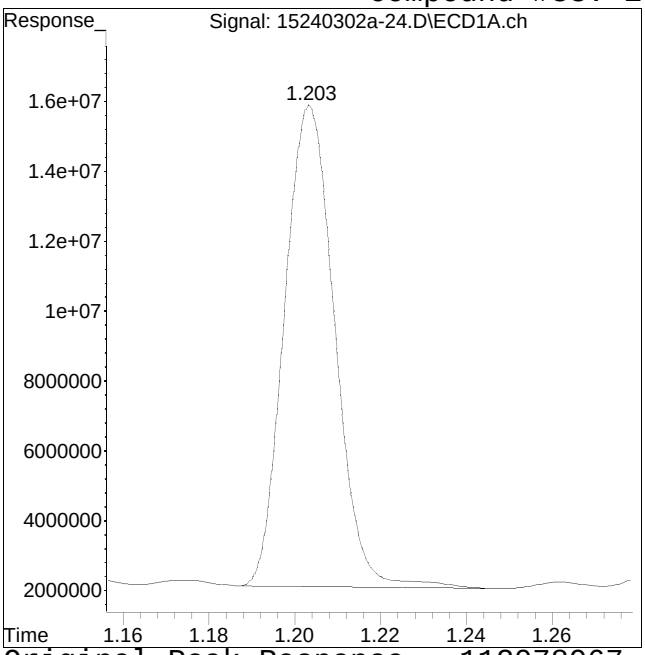


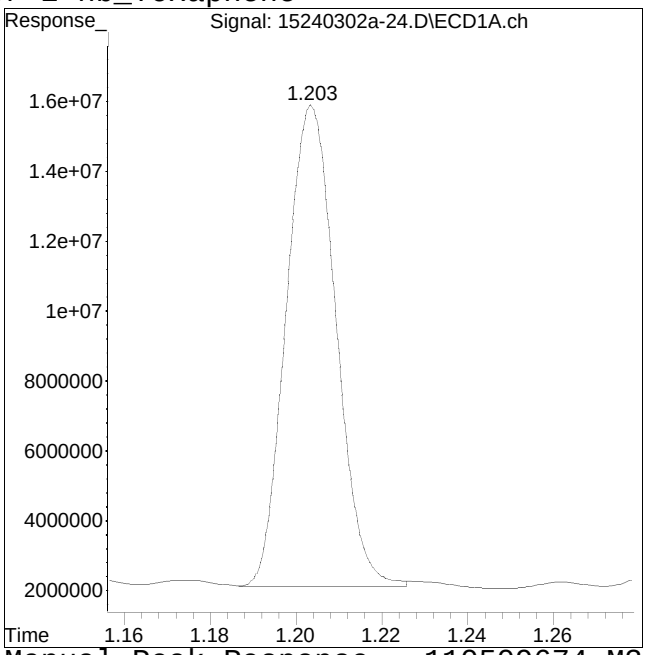
Original Peak Response = 89802563 Manual Peak Response = 88103896 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240302QMethod : P15_pest_2024_01_08_ugL_
Data File : 15240302a-24.D Operator : Pest15:mmg
Date Inj'd : 3/2/2024 8:16 pm Instrument : Pest 15
Sample : L2410579-07,42,, Quant Date : 3/3/2024 9:21 am

Compound #33: 1-br-2-nb_Toxaphene



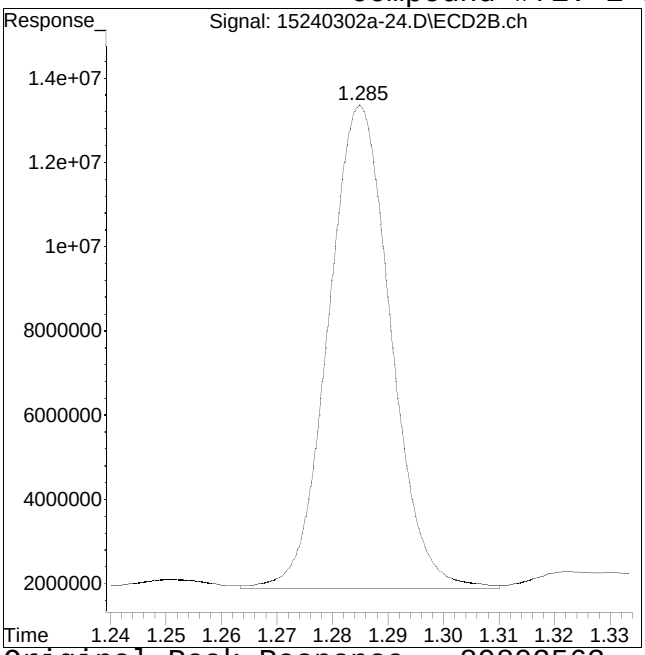


Original Peak Response = 112078967 Manual Peak Response = 110509674 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

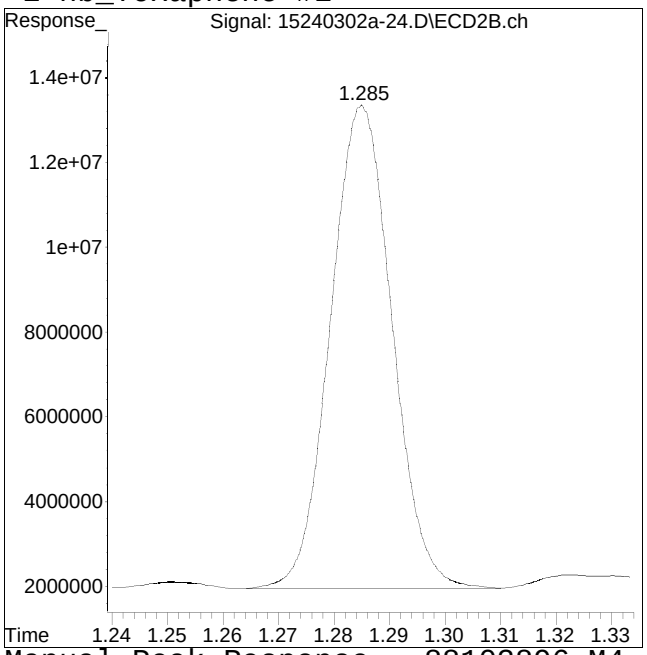
Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240302QMethod : P15_pest_2024_01_08_ugL_
Data File : 15240302a-24.D Operator : Pest15:mmg
Date Inj'd : 3/2/2024 8:16 pm Instrument : Pest 15
Sample : L2410579-07,42,, Quant Date : 3/3/2024 9:21 am

Compound #71: 1-br-2-nb_Toxaphene #2



Original Peak Response = 89802563



Manual Peak Response = 88103896 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240305A\
Data File : 11240305a-11.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 05 Mar 2024 9:27 am
Operator : PEST11:mmg
Sample : L2410579-04,42,,
Misc : wg1892239,WG1892124,ical20697
ALS Vial : 11 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 05 11:10:43 2024
Quant Method : I:\PEST\Pest11\2024\240305A\pest11_12_19_23_ugL_ICAL20697.M
Quant Title : pest
QLast Update : Tue Mar 05 08:15:23 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest11\2024\240305A\11240305a-03.d
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards							
1) i	1-br-2-nb_Pe	1.353	1.453	132.0E6	205.5E6	25.000M4	25.000M3
	Standard Area 1 : #1 = 83711596				Recovery = 157.73%		
	Standard Area 1 : #2 = 125546766				Recovery = 163.65%		
28) i	1-br-2-nb_Ch	1.353	1.453	132.0E6	205.5E6	25.000M4	25.000M3
33) i	1-br-2-nb_To	1.353	1.453	132.0E6	205.5E6	25.000M4	25.000M3
System Monitoring Compounds							
2) s	2,4,5,6-Tetr	1.703	1.950	142.8E6	234.1E6	28.223M4	28.612M4
	Spiked Amount 50.000	Range 30 - 150			Recovery = 56.45%		57.22%
27) s	Decachlorobi	6.354	7.039	170.3E6	212.4E6	35.556M3	33.085M4
	Spiked Amount 50.000	Range 30 - 150			Recovery = 71.11%		66.17%
Target Compounds							
4) t	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5) t	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6) t	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7) t	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8) t	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9) t	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
12) t	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13) t	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14) t	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15) t	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17) t	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest11\2024\240305A\
Data File : 11240305a-11.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 05 Mar 2024 9:27 am
Operator : PEST11:mmg
Sample : L2410579-04,42,,
Misc : wg1892239,WG1892124,ical20697
ALS Vial : 11 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 05 11:10:43 2024
Quant Method : I:\PEST\Pest11\2024\240305A\pest11_12_19_23_ugL_ICAL20697.M
Quant Title : pest
QLast Update : Tue Mar 05 08:15:23 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest11\2024\240305A\11240305a-03.d
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
18) t Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19) t 4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20) t Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21) t 4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22) t Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d
23) t Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
25) t Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26) t Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1 chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l1 chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1 chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1 chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum chlordane-1			0	0	N.D.	N.D.
Average chlordane-1					0.000	0.000
34) l2 toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
35) l2 toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d
36) l2 toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2 toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum toxaphene-2			0	0	N.D.	N.D.
Average toxaphene-2					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument						
Sum toxaphene-2			0	0	N.D.	N.D.
Average toxaphene-2					0.000	0.000

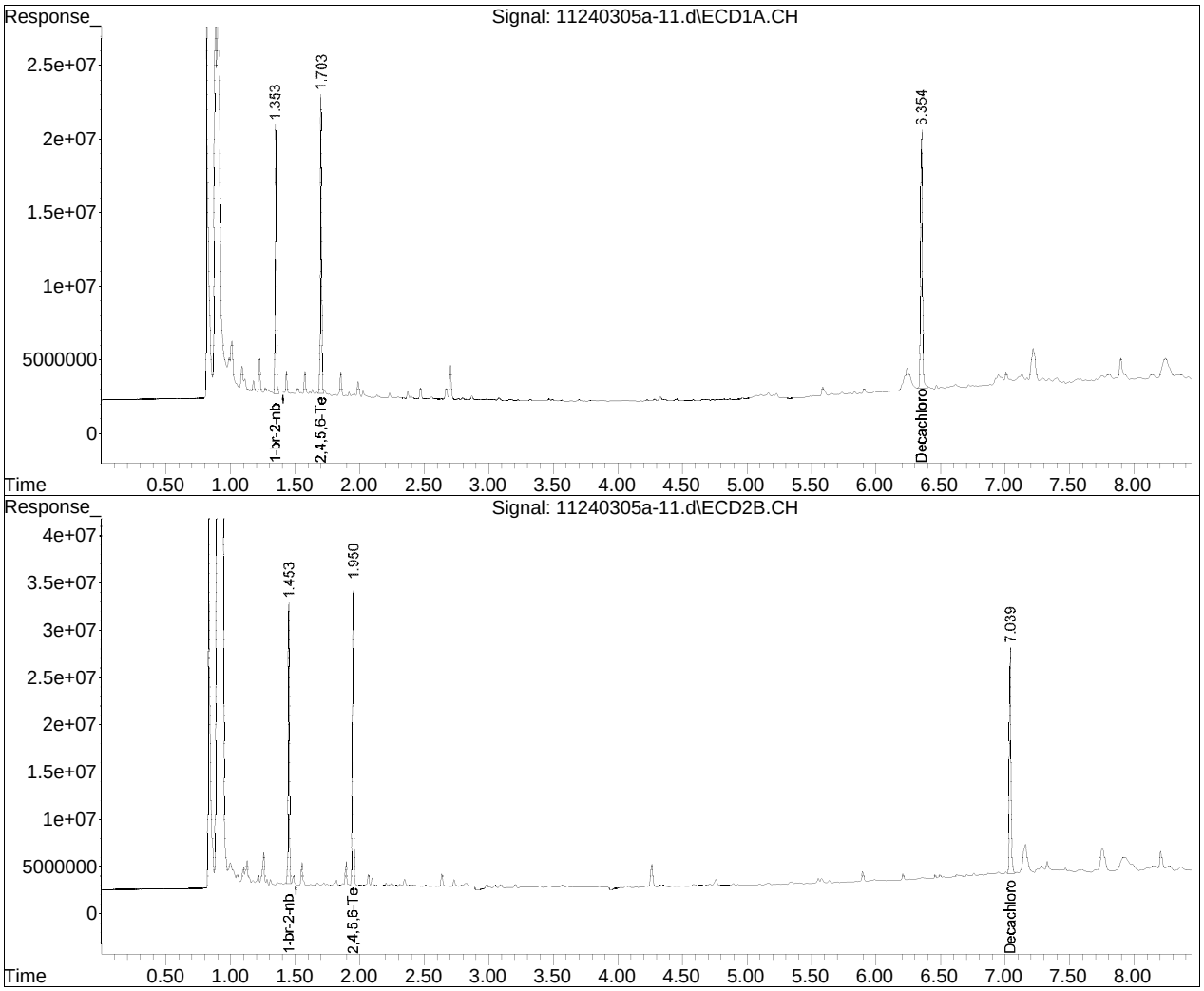
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listedA\11240305a-03.d••

Data Path : I:\PEST\Pest11\2024\240305A\
Data File : 11240305a-11.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 05 Mar 2024 9:27 am
Operator : PEST11:mmg
Sample : L2410579-04,42,,
Misc : wg1892239,WG1892124,ical20697
ALS Vial : 11 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 05 11:10:43 2024
Quant Method : I:\PEST\Pest11\2024\240305A\pest11_12_19_23_ugL_ICAL20697.M
Quant Title : pest
QLast Update : Tue Mar 05 08:15:23 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

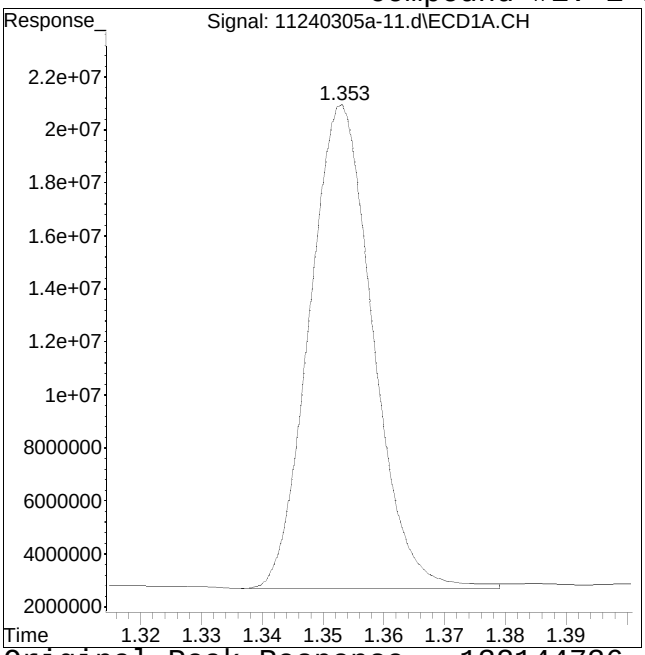
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

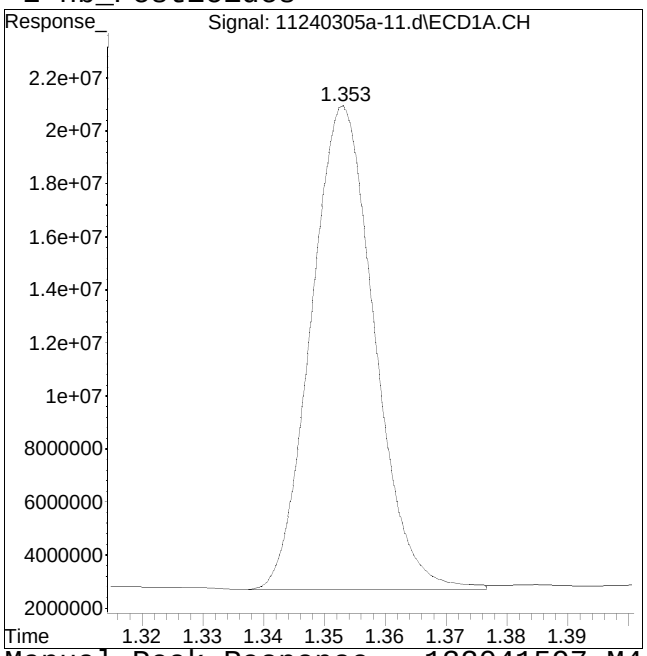


Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-11.d Operator : PEST11:mmg
Date Inj'd : 3/5/2024 9:27 am Instrument : Pest 11
Sample : L2410579-04,42,, Quant Date : 3/5/2024 10:54 am

Compound #1: 1-br-2-nb_Pesticides



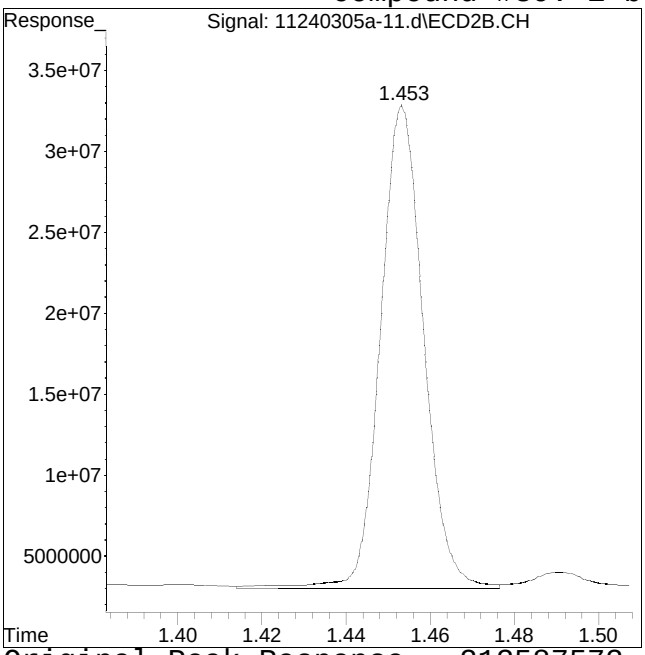


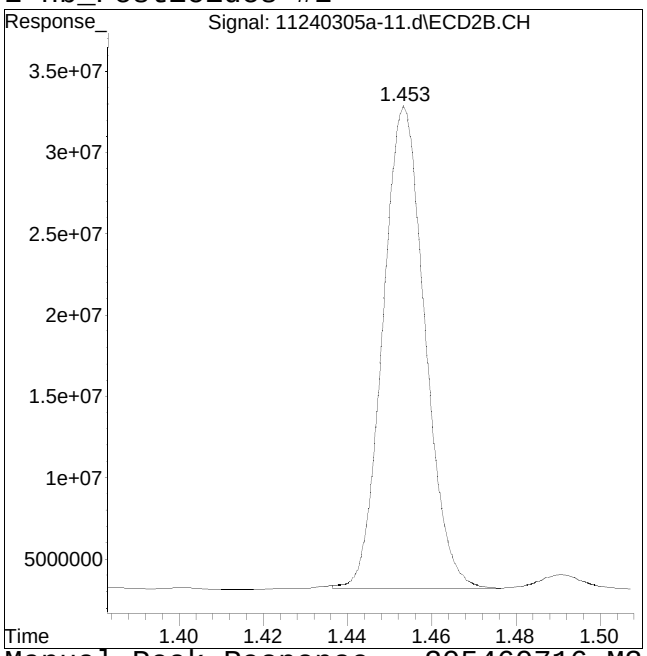
Original Peak Response = 132144736 Manual Peak Response = 132041597 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-11.d Operator : PEST11:mmg
Date Inj'd : 3/5/2024 9:27 am Instrument : Pest 11
Sample : L2410579-04,42,, Quant Date : 3/5/2024 10:54 am

Compound #39: 1-br-2-nb_Pesticides #2



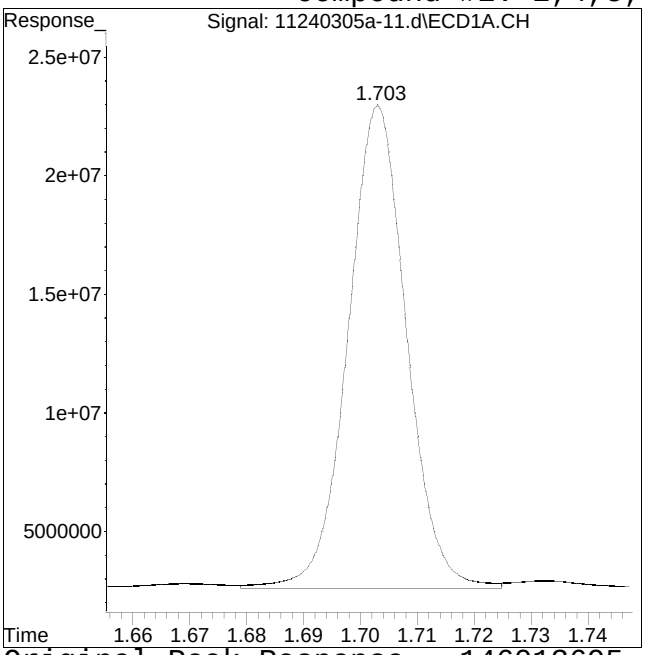


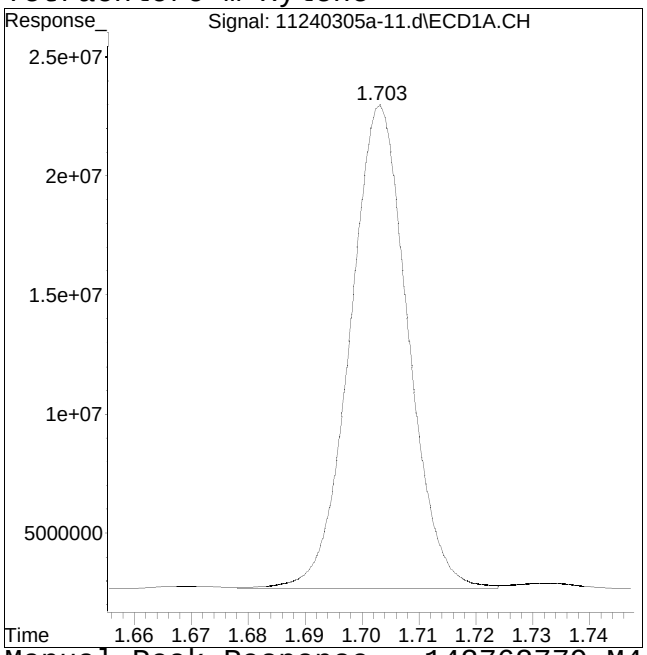
Original Peak Response = 213587573 Manual Peak Response = 205460716 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-11.d Operator : PEST11:mmg
Date Inj'd : 3/5/2024 9:27 am Instrument : Pest 11
Sample : L2410579-04,42,, Quant Date : 3/5/2024 10:54 am

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



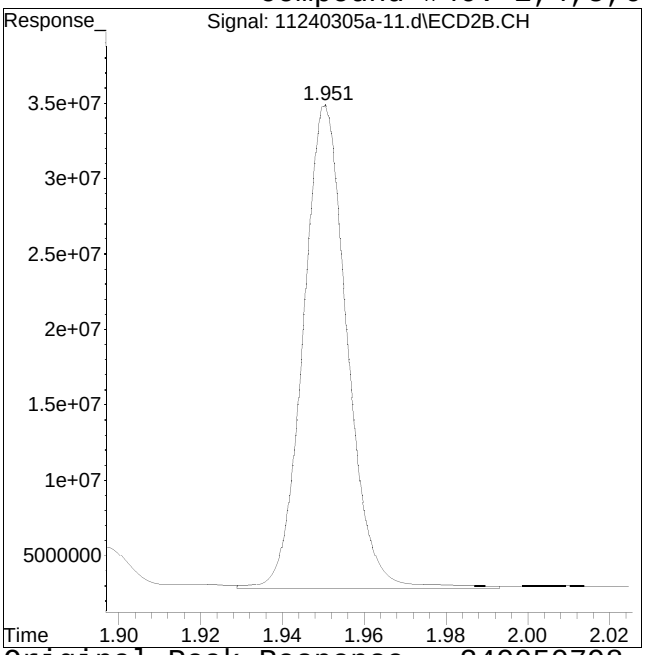


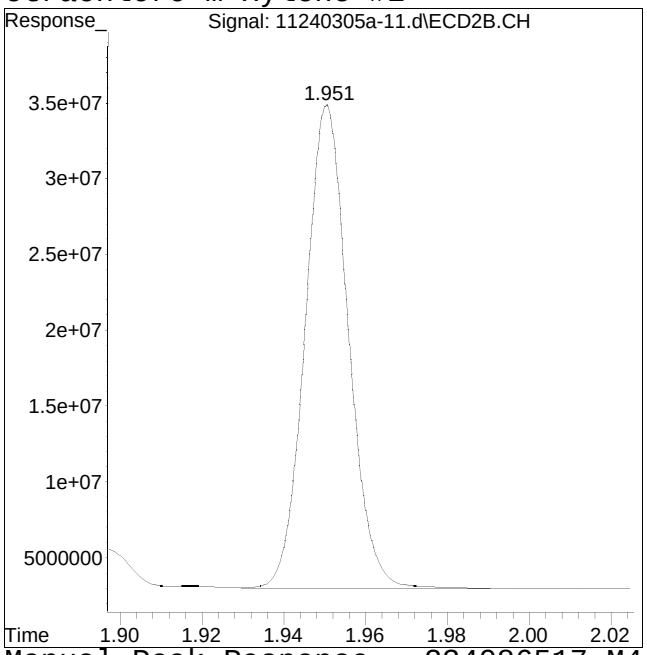
Original Peak Response = 146013695 Manual Peak Response = 142762779 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-11.d Operator : PEST11:mmg
Date Inj'd : 3/5/2024 9:27 am Instrument : Pest 11
Sample : L2410579-04,42,, Quant Date : 3/5/2024 10:54 am

Compound #40: 2,4,5,6-Tetrachloro-m-xylene #2



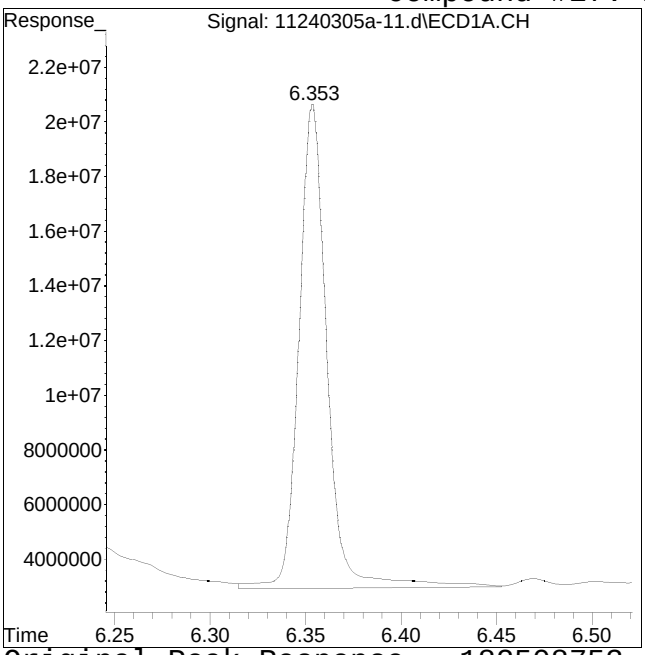


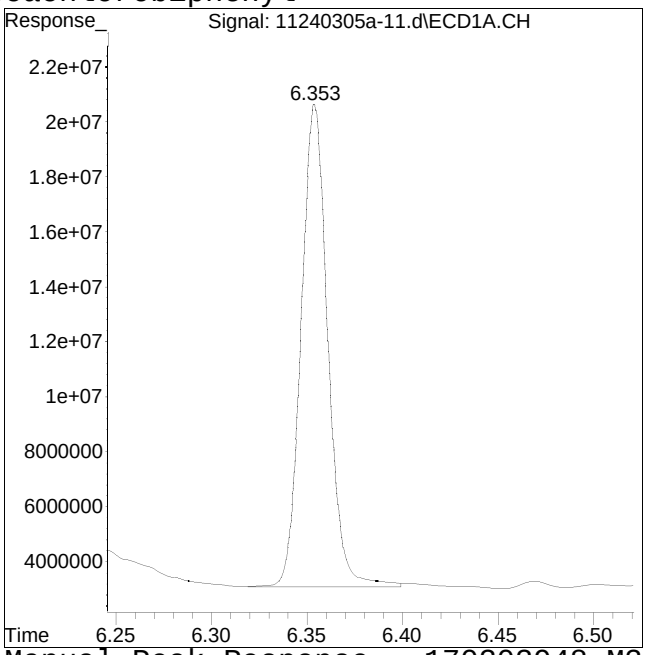
Original Peak Response = 240050798 Manual Peak Response = 234086517 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-11.d Operator : PEST11:mmg
Date Inj'd : 3/5/2024 9:27 am Instrument : Pest 11
Sample : L2410579-04,42,, Quant Date : 3/5/2024 10:54 am

Compound #27: Decachlorobiphenyl



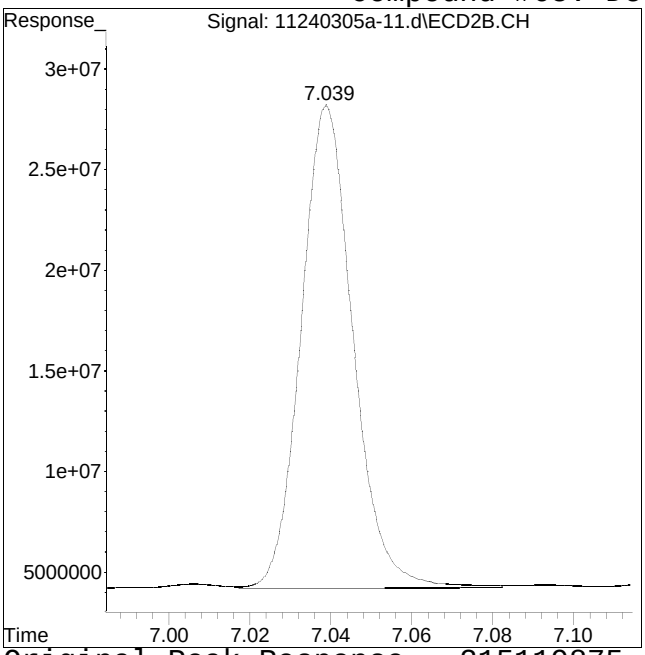


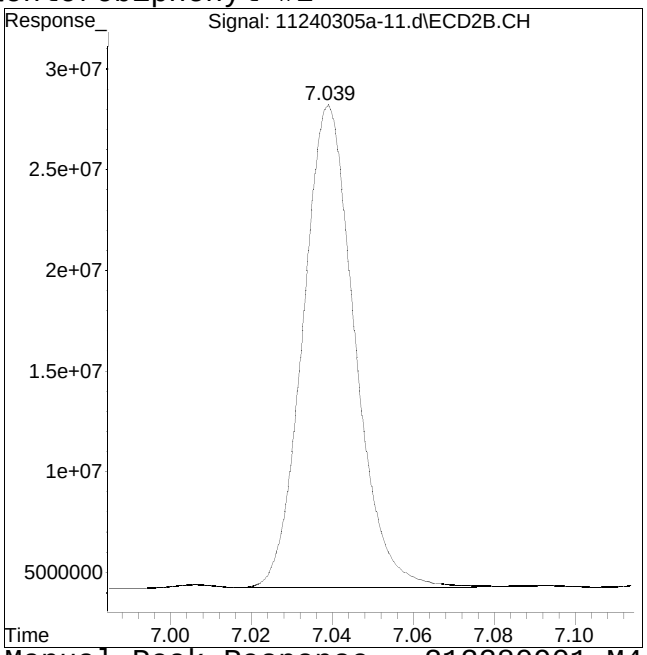
Original Peak Response = 182508753 Manual Peak Response = 170303948 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-11.d Operator : PEST11:mmg
Date Inj'd : 3/5/2024 9:27 am Instrument : Pest 11
Sample : L2410579-04,42,, Quant Date : 3/5/2024 10:54 am

Compound #65: Decachlorobiphenyl #2



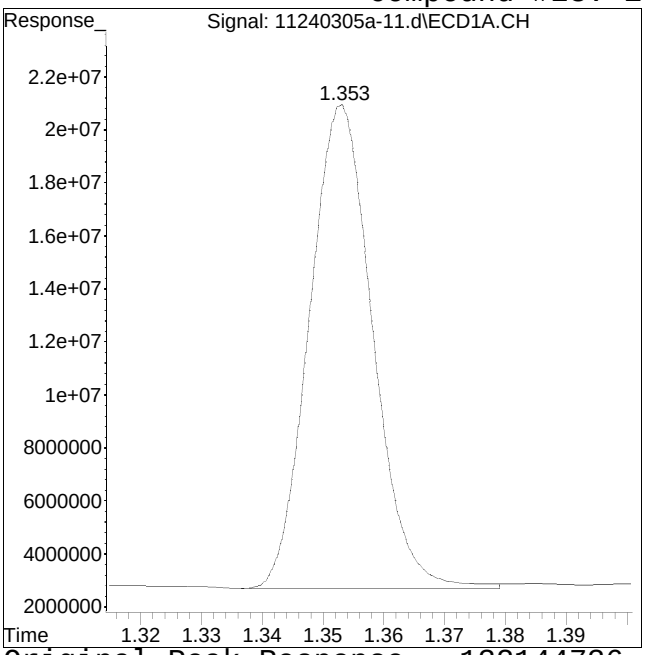


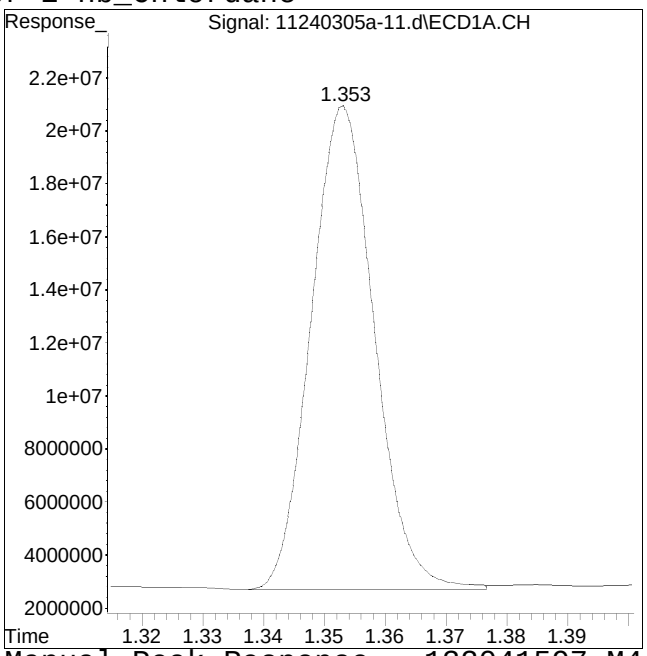
Original Peak Response = 215119875 Manual Peak Response = 212380901 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-11.d Operator : PEST11:mmg
Date Inj'd : 3/5/2024 9:27 am Instrument : Pest 11
Sample : L2410579-04,42,, Quant Date : 3/5/2024 10:54 am

Compound #28: 1-br-2-nb_Chlordane



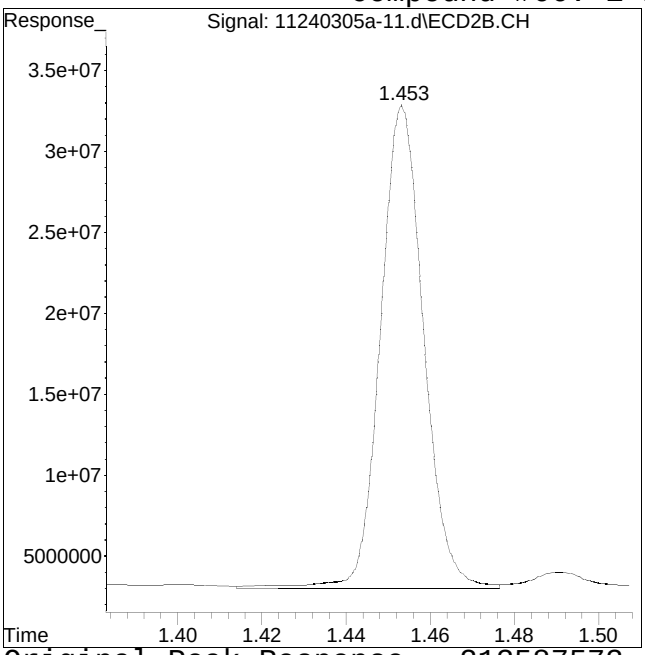


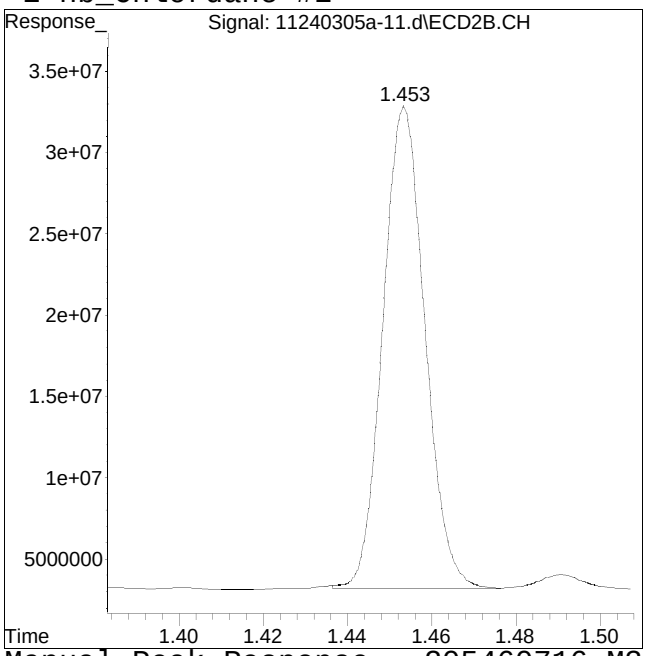
Original Peak Response = 132144736 Manual Peak Response = 132041597 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-11.d Operator : PEST11:mmg
Date Inj'd : 3/5/2024 9:27 am Instrument : Pest 11
Sample : L2410579-04,42,, Quant Date : 3/5/2024 10:54 am

Compound #66: 1-br-2-nb_Chlordane #2



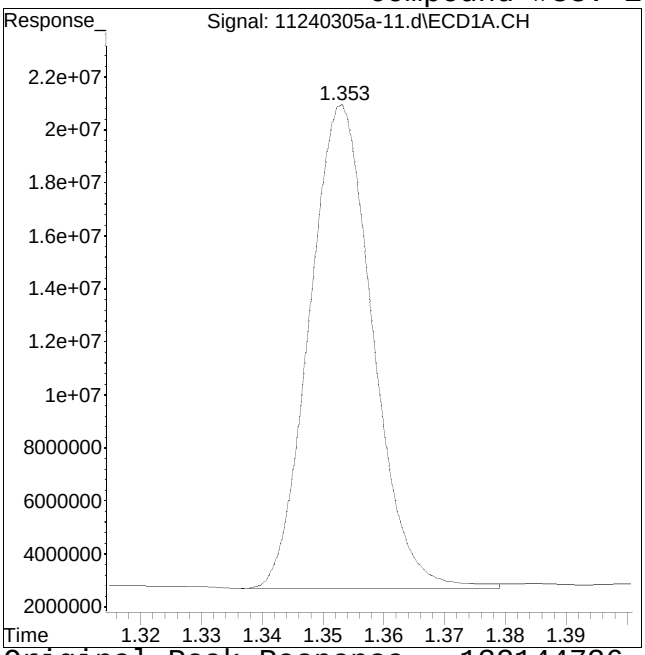


Original Peak Response = 213587573 Manual Peak Response = 205460716 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

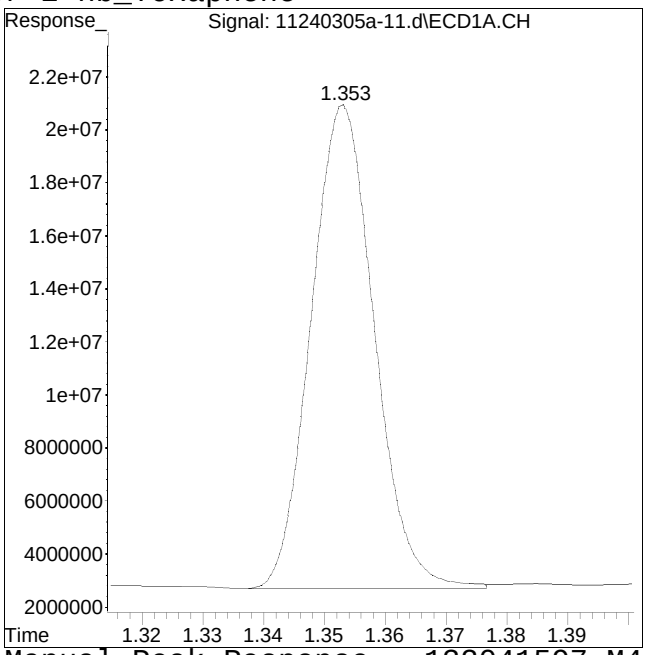
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-11.d Operator : PEST11:mmg
Date Inj'd : 3/5/2024 9:27 am Instrument : Pest 11
Sample : L2410579-04,42,, Quant Date : 3/5/2024 10:54 am

Compound #33: 1-br-2-nb_Toxaphene



Original Peak Response = 132144736



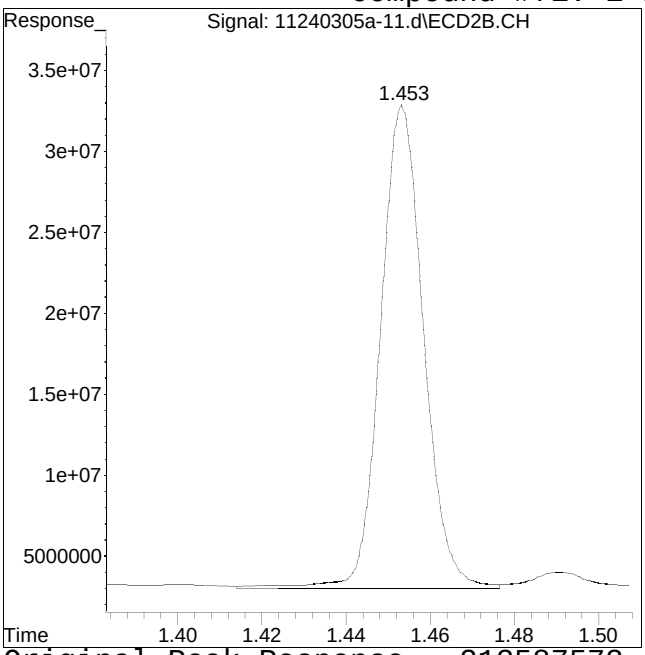
Manual Peak Response = 132041597 M4

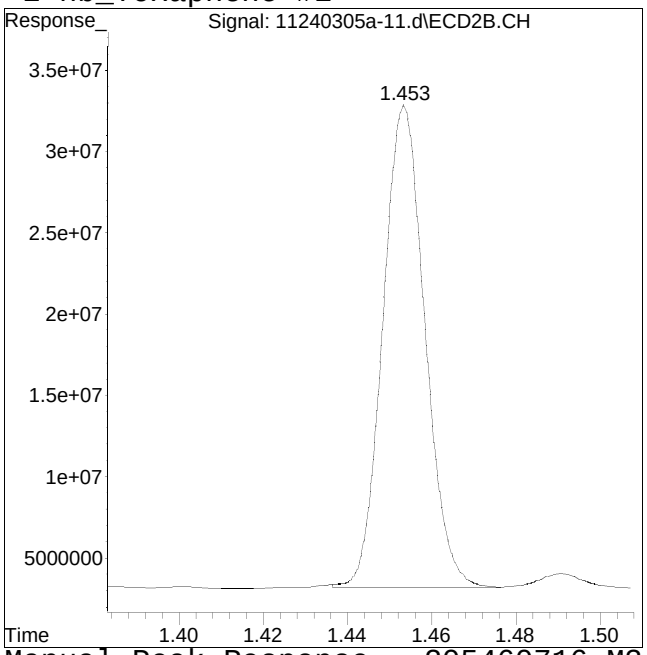
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-11.d Operator : PEST11:mmg
Date Inj'd : 3/5/2024 9:27 am Instrument : Pest 11
Sample : L2410579-04,42,, Quant Date : 3/5/2024 10:54 am

Compound #71: 1-br-2-nb_Toxaphene #2





Original Peak Response = 213587573 Manual Peak Response = 205460716 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240305A\
Data File : 11240305a-12.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 05 Mar 2024 9:39 am
Operator : PEST11:mmg
Sample : L2410579-05,42,,
Misc : wg1892239,WG1892124,ical20697
ALS Vial : 12 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 05 11:11:55 2024
Quant Method : I:\PEST\Pest11\2024\240305A\pest11_12_19_23_ugL_ICAL20697.M
Quant Title : pest
QLast Update : Tue Mar 05 08:15:23 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest11\2024\240305A\11240305a-03.d
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards							
1) i	1-br-2-nb_Pe	1.353	1.453	133.3E6	207.3E6	25.000M4	25.000M3
	Standard Area 1 : #1 = 83711596				Recovery = 159.23%		
	Standard Area 1 : #2 = 125546766				Recovery = 165.15%		
28) i	1-br-2-nb_Ch	1.353	1.453	133.3E6	207.3E6	25.000M4	25.000M3
33) i	1-br-2-nb_To	1.353	1.453	133.3E6	207.3E6	25.000M4	25.000M3
System Monitoring Compounds							
2) s	2,4,5,6-Tetr	1.703	1.951	151.2E6	242.4E6	29.607M4	29.360M4
	Spiked Amount 50.000	Range 30 - 150			Recovery = 59.21%		58.72%
27) s	Decachlorobi	6.354	7.039	173.2E6	210.3E6	35.823M3	32.443M3
	Spiked Amount 50.000	Range 30 - 150			Recovery = 71.65%		64.89%
Target Compounds							
4) t	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5) t	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6) t	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7) t	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8) t	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9) t	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
12) t	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13) t	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14) t	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15) t	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17) t	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest11\2024\240305A\
Data File : 11240305a-12.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 05 Mar 2024 9:39 am
Operator : PEST11:mmg
Sample : L2410579-05,42,,
Misc : wg1892239,WG1892124,ical20697
ALS Vial : 12 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 05 11:11:55 2024
Quant Method : I:\PEST\Pest11\2024\240305A\pest11_12_19_23_ugL_ICAL20697.M
Quant Title : pest
QLast Update : Tue Mar 05 08:15:23 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest11\2024\240305A\11240305a-03.d
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
18) t	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19) t	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21) t	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22) t	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d
23) t	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
25) t	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26) t	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum chlordane-1			0	0	N.D.	N.D.
	Average chlordane-1					0.000	0.000
34) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum toxaphene-2			0	0	N.D.	N.D.
	Average toxaphene-2					0.000	0.000
	SemiQuant Compounds - Not Calibrated on this Instrument						
	Sum toxaphene-2			0	0	N.D.	N.D.
	Average toxaphene-2					0.000	0.000

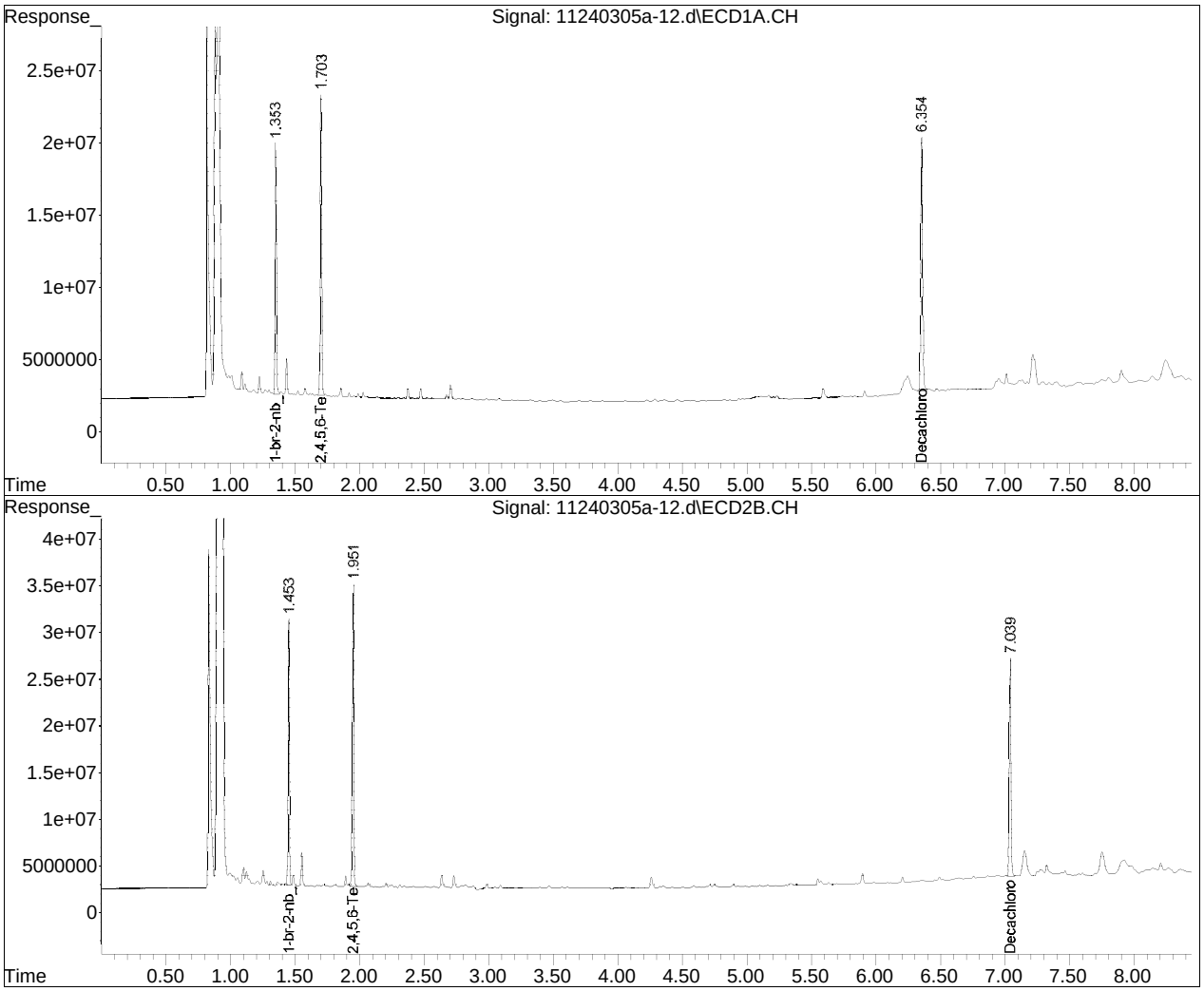
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listedA\11240305a-03.d••

Data Path : I:\PEST\Pest11\2024\240305A\
Data File : 11240305a-12.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 05 Mar 2024 9:39 am
Operator : PEST11:mmg
Sample : L2410579-05,42,,
Misc : wg1892239,WG1892124,ical20697
ALS Vial : 12 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 05 11:11:55 2024
Quant Method : I:\PEST\Pest11\2024\240305A\pest11_12_19_23_ugL_ICAL20697.M
Quant Title : pest
QLast Update : Tue Mar 05 08:15:23 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

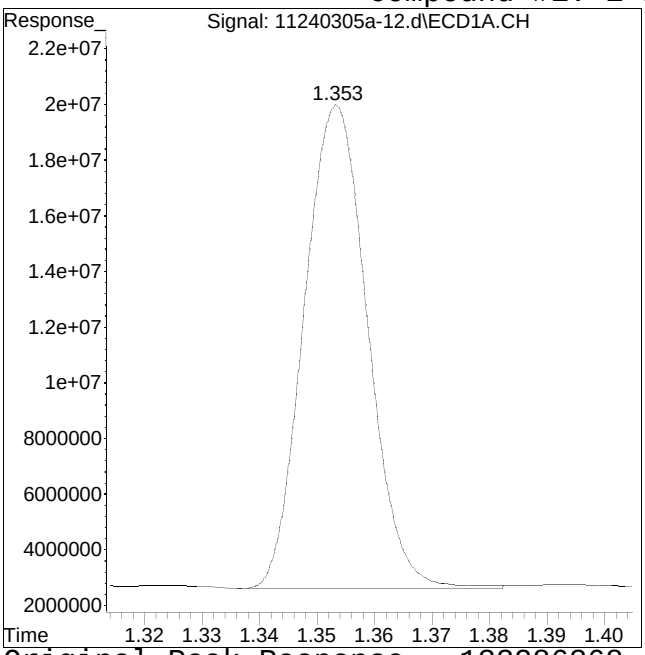
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

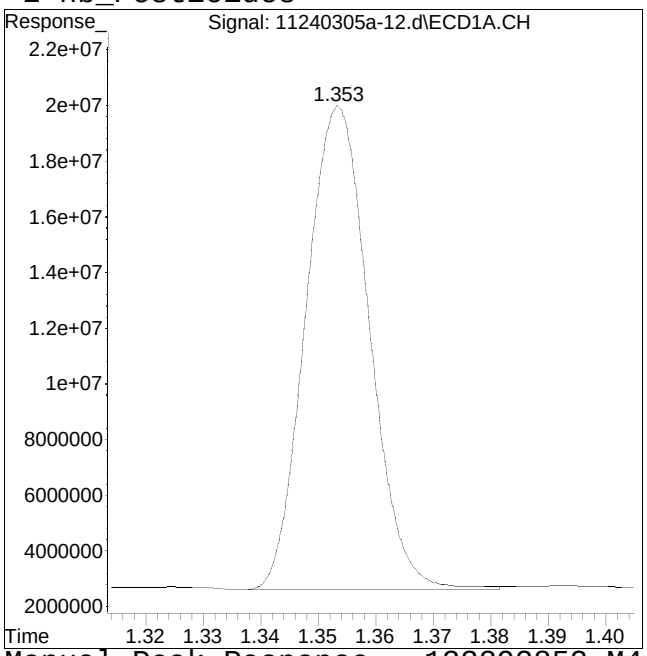


Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-12.d Operator : PEST11:mmg
Date Inj'd : 3/5/2024 9:39 am Instrument : Pest 11
Sample : L2410579-05,42,, Quant Date : 3/5/2024 10:54 am

Compound #1: 1-br-2-nb_Pesticides



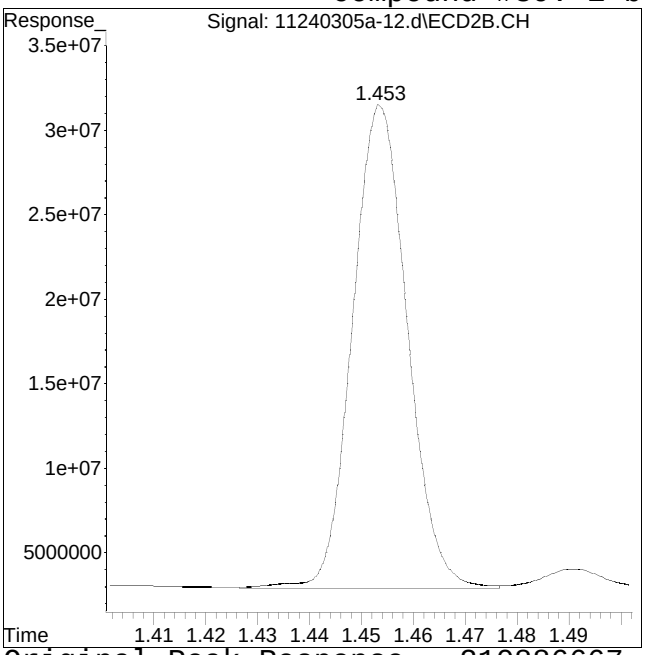


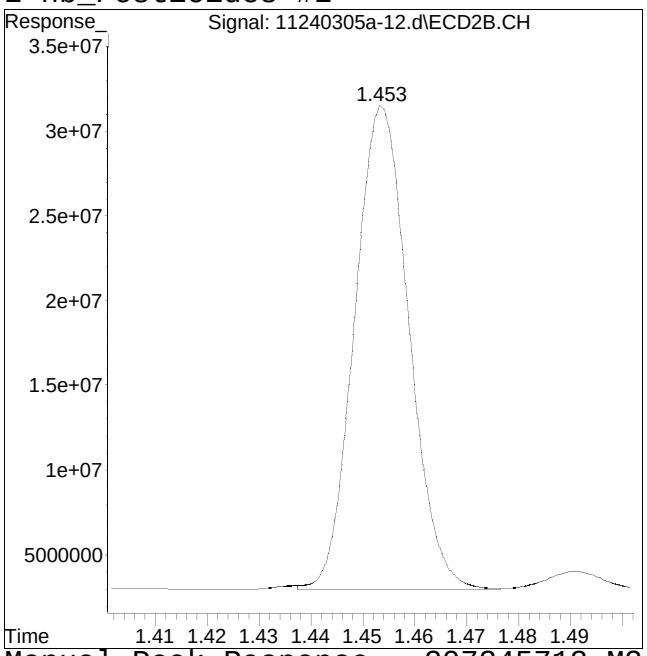
Original Peak Response = 133286368 Manual Peak Response = 133293852 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-12.d Operator : PEST11:mmg
Date Inj'd : 3/5/2024 9:39 am Instrument : Pest 11
Sample : L2410579-05,42,, Quant Date : 3/5/2024 10:54 am

Compound #39: 1-br-2-nb_Pesticides #2



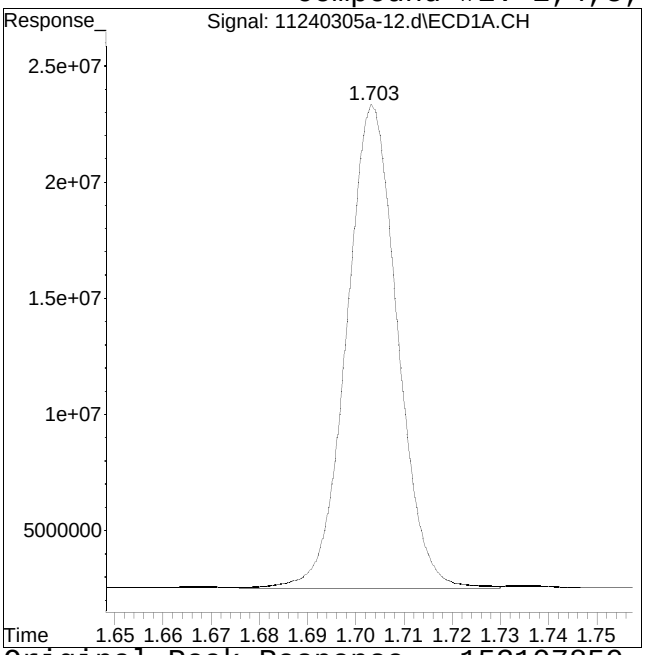


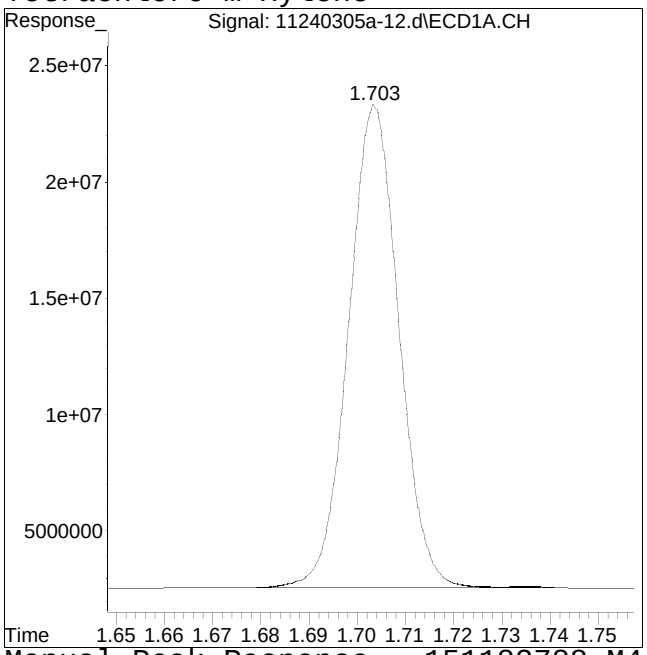
Original Peak Response = 210886667 Manual Peak Response = 207345712 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-12.d Operator : PEST11:mmg
Date Inj'd : 3/5/2024 9:39 am Instrument : Pest 11
Sample : L2410579-05,42,, Quant Date : 3/5/2024 10:54 am

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



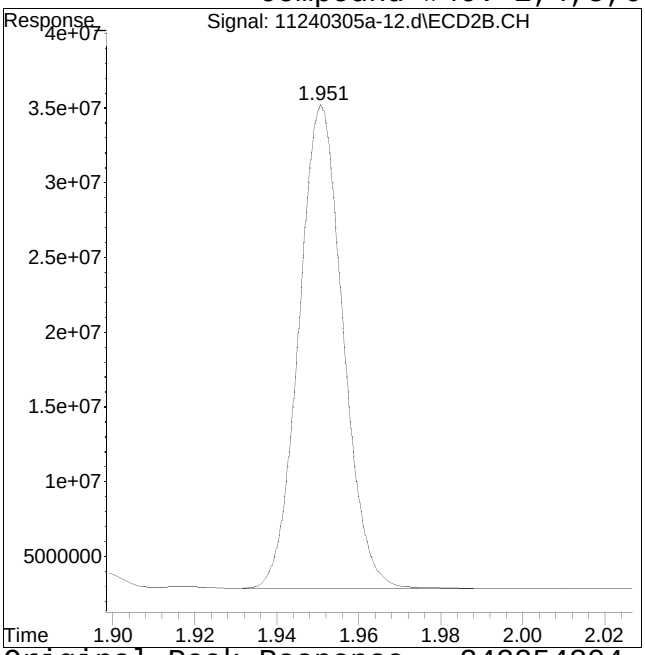


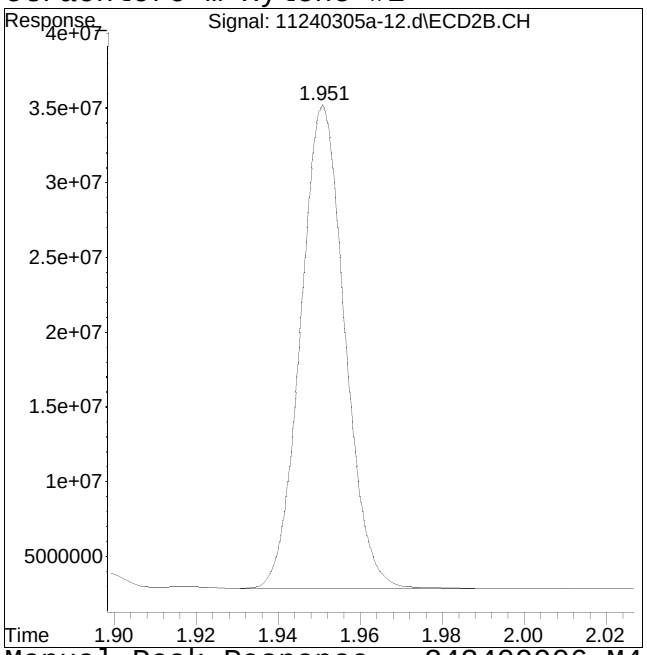
Original Peak Response = 153107850 Manual Peak Response = 151182788 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-12.d Operator : PEST11:mmg
Date Inj'd : 3/5/2024 9:39 am Instrument : Pest 11
Sample : L2410579-05,42,, Quant Date : 3/5/2024 10:54 am

Compound #40: 2,4,5,6-Tetrachloro-m-xylene #2



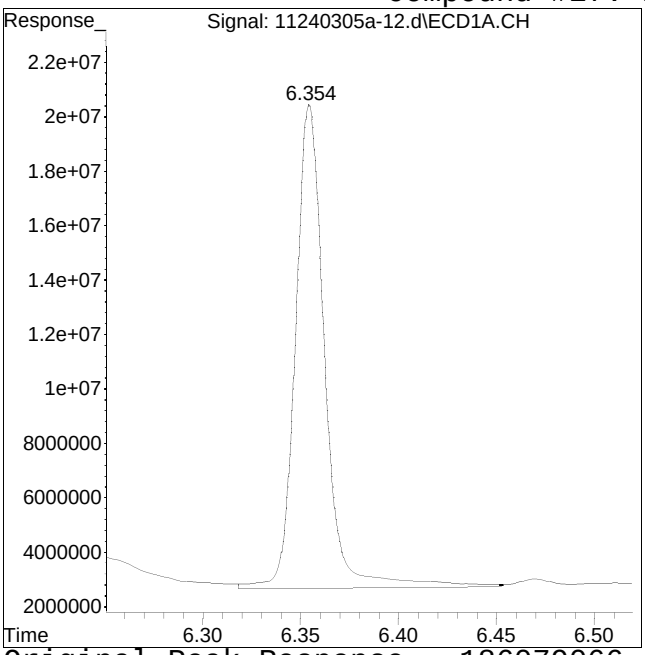


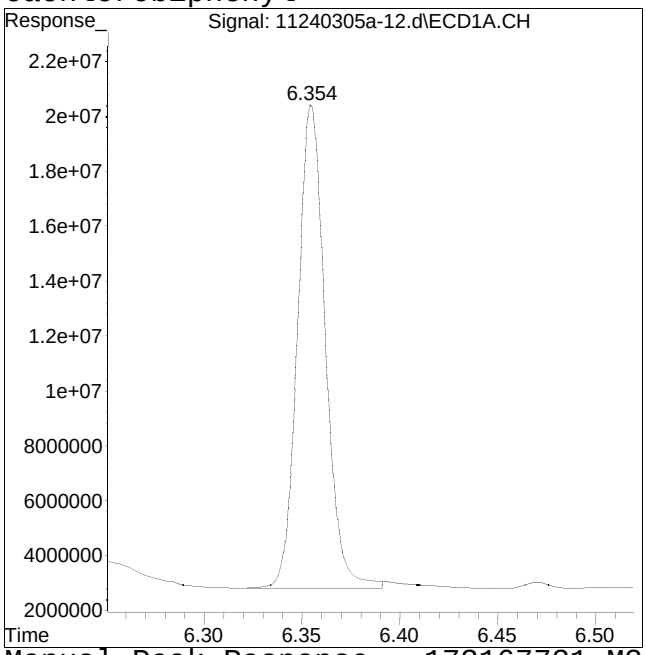
Original Peak Response = 242254304 Manual Peak Response = 242409906 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-12.d Operator : PEST11:mmg
Date Inj'd : 3/5/2024 9:39 am Instrument : Pest 11
Sample : L2410579-05,42,, Quant Date : 3/5/2024 10:54 am

Compound #27: Decachlorobiphenyl



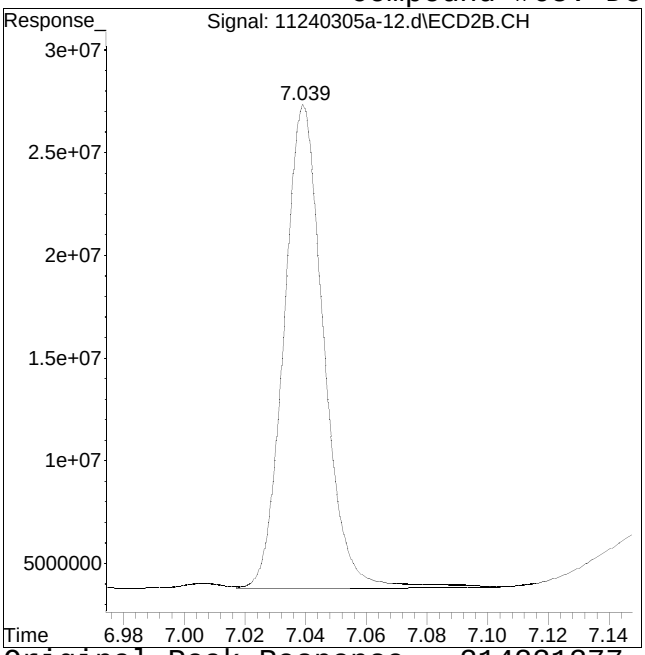


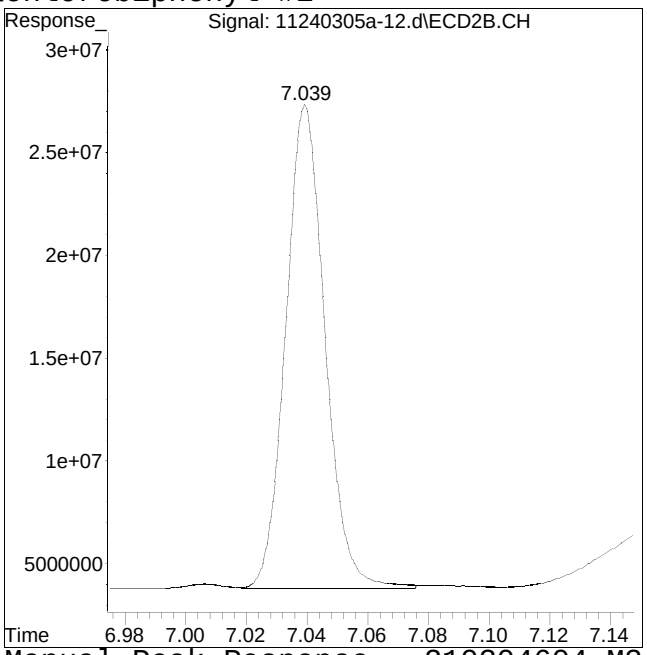
Original Peak Response = 186079066 Manual Peak Response = 173167731 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-12.d Operator : PEST11:mmg
Date Inj'd : 3/5/2024 9:39 am Instrument : Pest 11
Sample : L2410579-05,42,, Quant Date : 3/5/2024 10:54 am

Compound #65: Decachlorobiphenyl #2



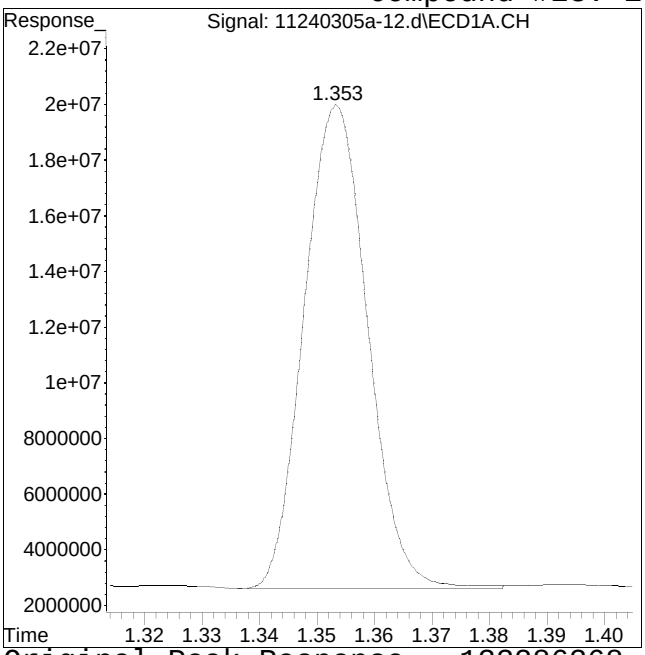


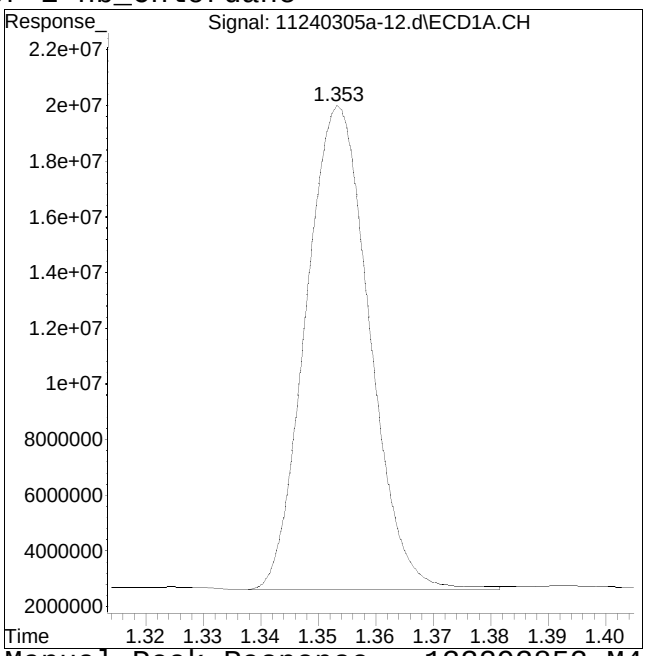
Original Peak Response = 214231377 Manual Peak Response = 210304604 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-12.d Operator : PEST11:mmg
Date Inj'd : 3/5/2024 9:39 am Instrument : Pest 11
Sample : L2410579-05,42,, Quant Date : 3/5/2024 10:54 am

Compound #28: 1-br-2-nb_Chlordane



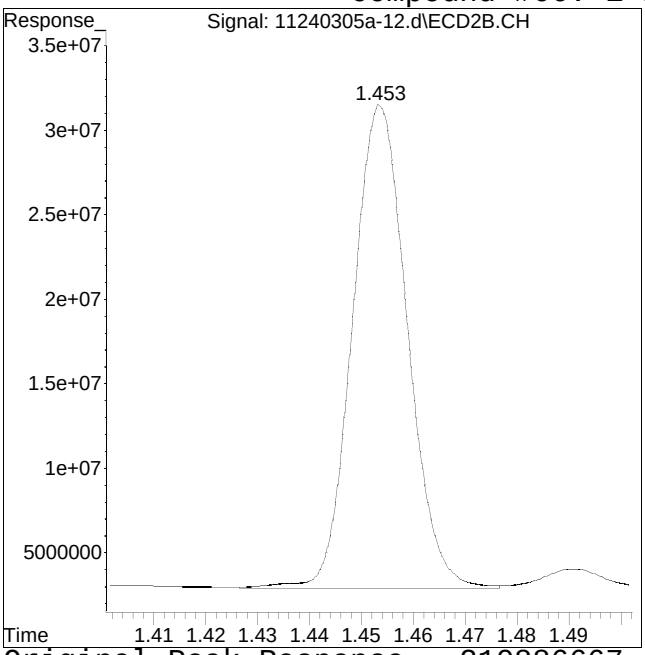


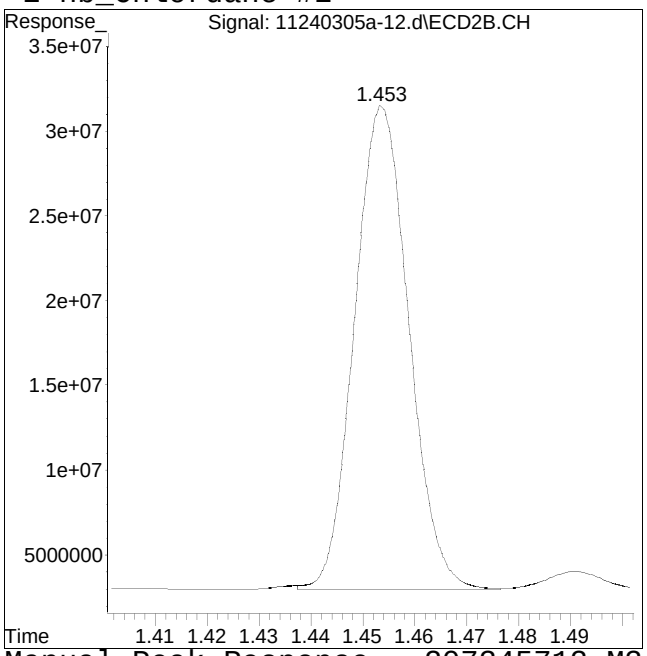
Original Peak Response = 133286368 Manual Peak Response = 133293852 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-12.d Operator : PEST11:mmg
Date Inj'd : 3/5/2024 9:39 am Instrument : Pest 11
Sample : L2410579-05,42,, Quant Date : 3/5/2024 10:54 am

Compound #66: 1-br-2-nb_Chlordane #2



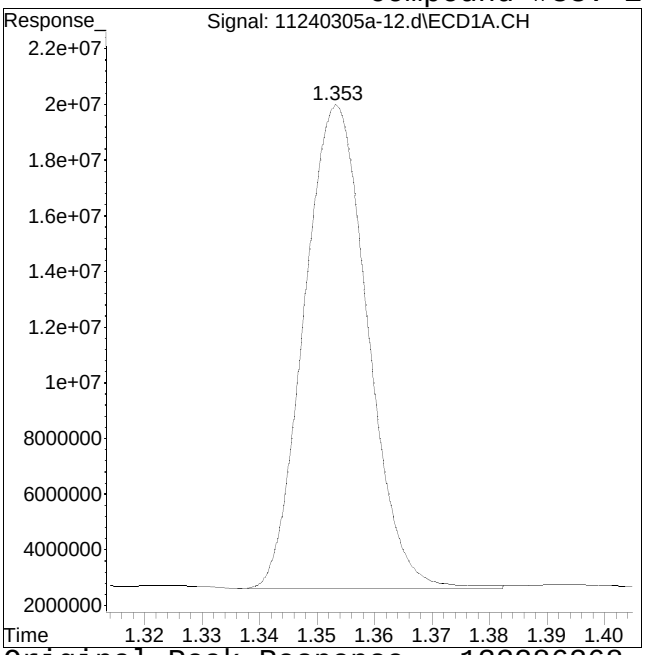


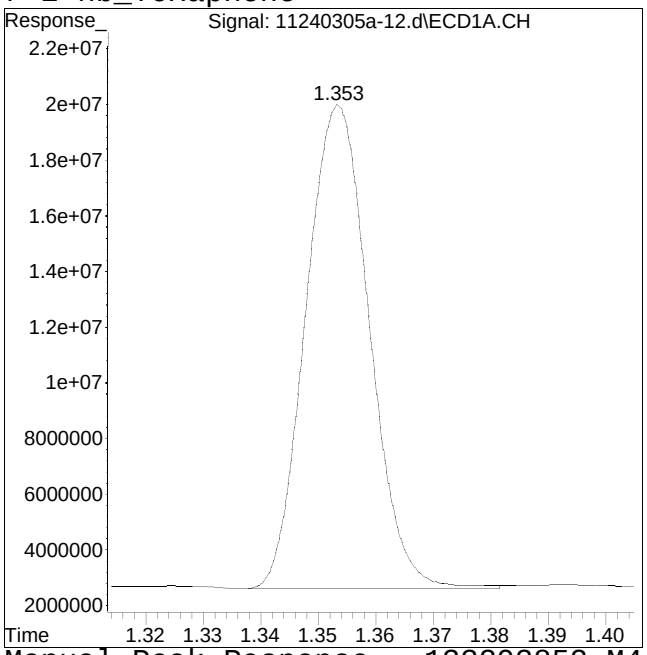
Original Peak Response = 210886667 Manual Peak Response = 207345712 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-12.d Operator : PEST11:mmg
Date Inj'd : 3/5/2024 9:39 am Instrument : Pest 11
Sample : L2410579-05,42,, Quant Date : 3/5/2024 10:54 am

Compound #33: 1-br-2-nb_Toxaphene



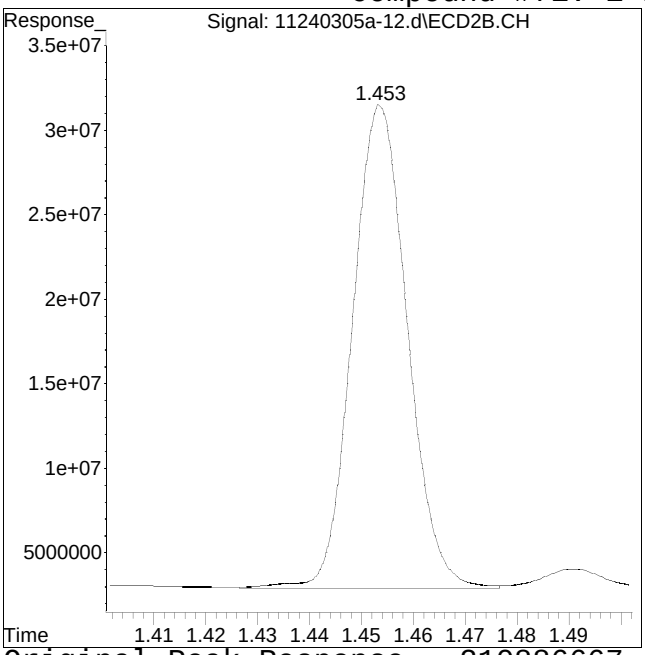


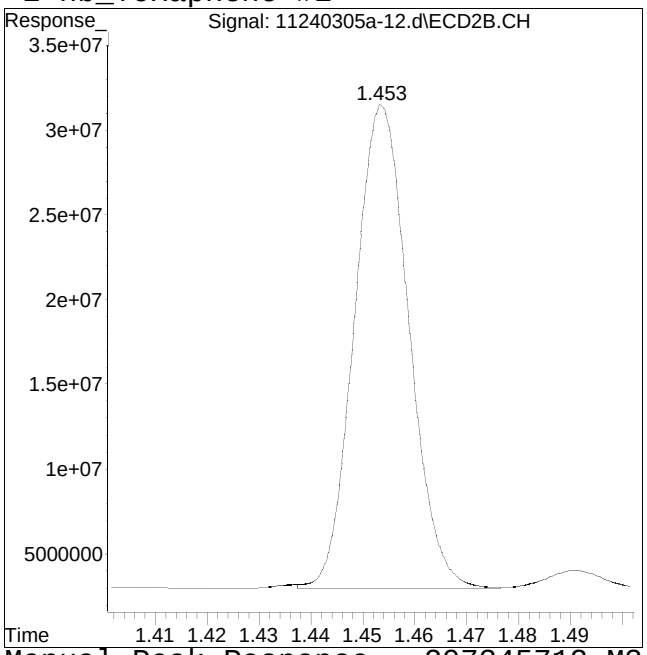
Original Peak Response = 133286368 Manual Peak Response = 133293852 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-12.d Operator : PEST11:mmg
Date Inj'd : 3/5/2024 9:39 am Instrument : Pest 11
Sample : L2410579-05,42,, Quant Date : 3/5/2024 10:54 am

Compound #71: 1-br-2-nb_Toxaphene #2





Original Peak Response = 210886667 Manual Peak Response = 207345712 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240305A\
Data File : 11240305a-13.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 05 Mar 2024 9:51 am
Operator : PEST11:mmg
Sample : L2410579-08,42,, p
Misc : wg1892239,WG1892124,ical20697
ALS Vial : 13 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 05 11:13:02 2024
Quant Method : I:\PEST\Pest11\2024\240305A\pest11_12_19_23_ugL_ICAL20697.M
Quant Title : pest
QLast Update : Tue Mar 05 08:15:23 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest11\2024\240305A\11240305a-03.d
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards							
1) i	1-br-2-nb_Pe	1.353	1.453	133.9E6	204.8E6	25.000M4	25.000M3
	Standard Area 1 : #1 = 83711596				Recovery = 159.99%		
	Standard Area 1 : #2 = 125546766				Recovery = 163.16%		
28) i	1-br-2-nb_Ch	1.353	1.453	133.9E6	204.8E6	25.000M4	25.000M3
33) i	1-br-2-nb_To	1.353	1.453	133.9E6	204.8E6	25.000M4	25.000M3
System Monitoring Compounds							
2) s	2,4,5,6-Tetr	1.703	1.950	126.5E6	198.2E6	24.665M3	24.306M4
	Spiked Amount 50.000	Range 30 - 150			Recovery = 49.33%		48.61%
27) s	Decachlorobi	6.354	7.039	155.4E6	193.7E6	31.865M4	30.182M4
	Spiked Amount 50.000	Range 30 - 150			Recovery = 63.73%		60.36%
Target Compounds							
4) t	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5) t	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6) t	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7) t	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8) t	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9) t	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
12) t	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13) t	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14) t	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15) t	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17) t	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest11\2024\240305A\
Data File : 11240305a-13.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 05 Mar 2024 9:51 am
Operator : PEST11:mmg
Sample : L2410579-08,42,, p
Misc : wg1892239,WG1892124,ical20697
ALS Vial : 13 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 05 11:13:02 2024
Quant Method : I:\PEST\Pest11\2024\240305A\pest11_12_19_23_ugL_ICAL20697.M
Quant Title : pest
QLast Update : Tue Mar 05 08:15:23 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest11\2024\240305A\11240305a-03.d
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
18) t	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19) t	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21) t	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22) t	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d
23) t	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
25) t	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26) t	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument							
Sum	toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000

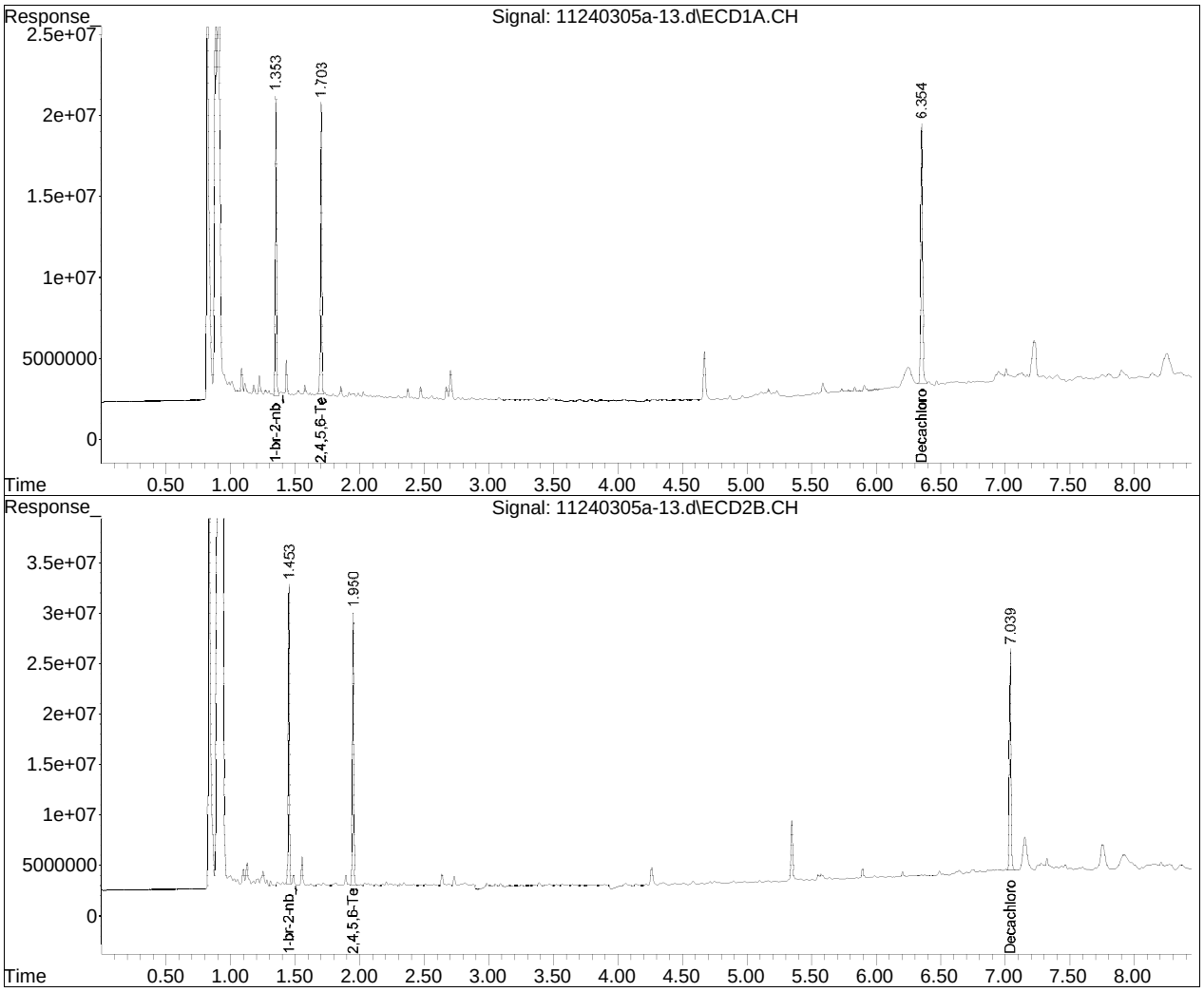
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listedA\11240305a-03.d••

Data Path : I:\PEST\Pest11\2024\240305A\
Data File : 11240305a-13.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 05 Mar 2024 9:51 am
Operator : PEST11:mmg
Sample : L2410579-08,42,, p
Misc : wg1892239,WG1892124,ical20697
ALS Vial : 13 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 05 11:13:02 2024
Quant Method : I:\PEST\Pest11\2024\240305A\pest11_12_19_23_ugL_ICAL20697.M
Quant Title : pest
QLast Update : Tue Mar 05 08:15:23 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

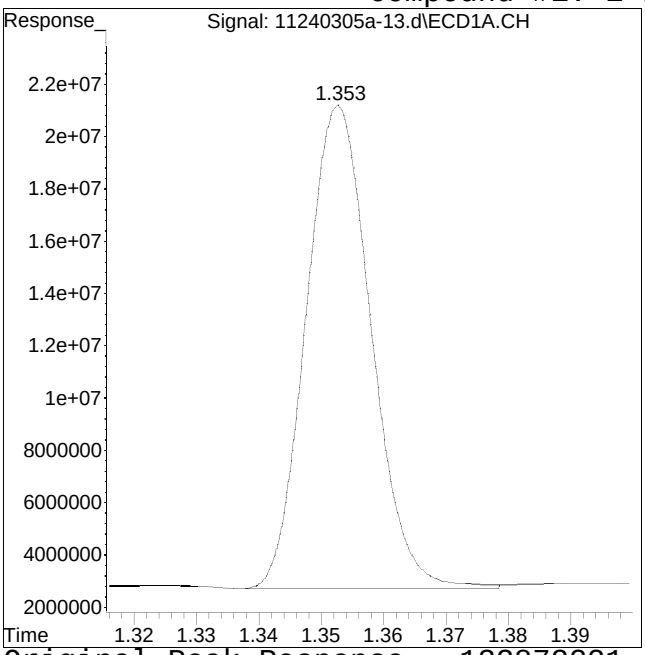
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



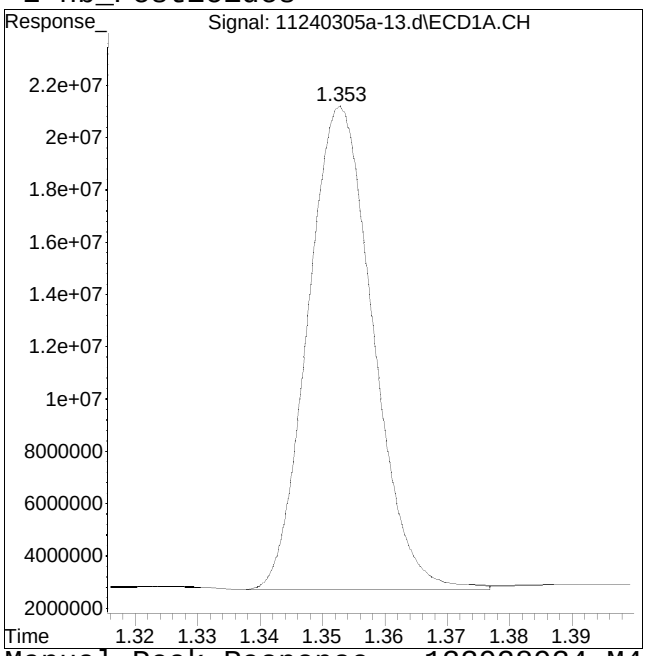
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-13.d Operator : PEST11:mmg
Date Inj'd : 3/5/2024 9:51 am Instrument : Pest 11
Sample : L2410579-08,42,, p Quant Date : 3/5/2024 10:54 am

Compound #1: 1-br-2-nb_Pesticides



Original Peak Response = 133872221



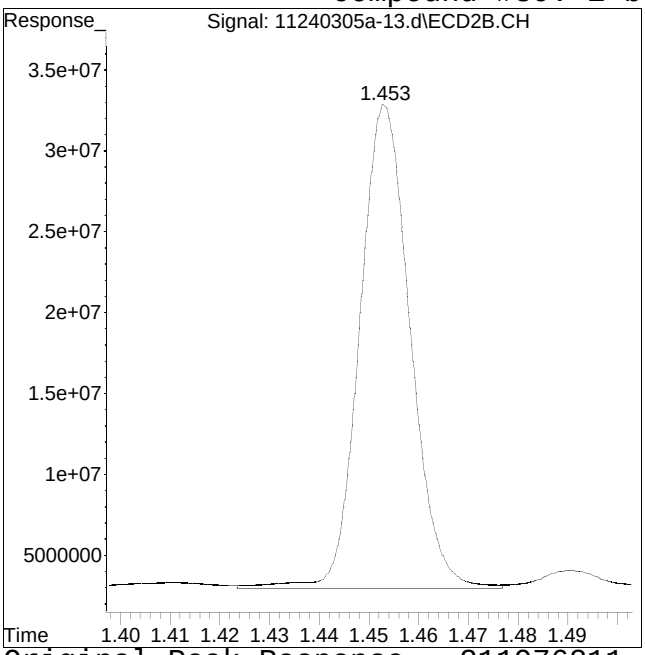
Manual Peak Response = 133928934 M4

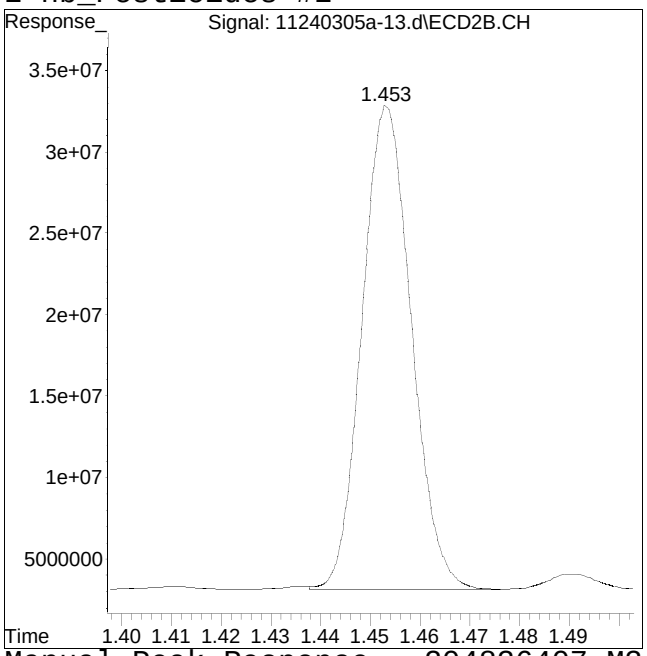
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-13.d Operator : PEST11:mmg
Date Inj'd : 3/5/2024 9:51 am Instrument : Pest 11
Sample : L2410579-08,42,, p Quant Date : 3/5/2024 10:54 am

Compound #39: 1-br-2-nb_Pesticides #2



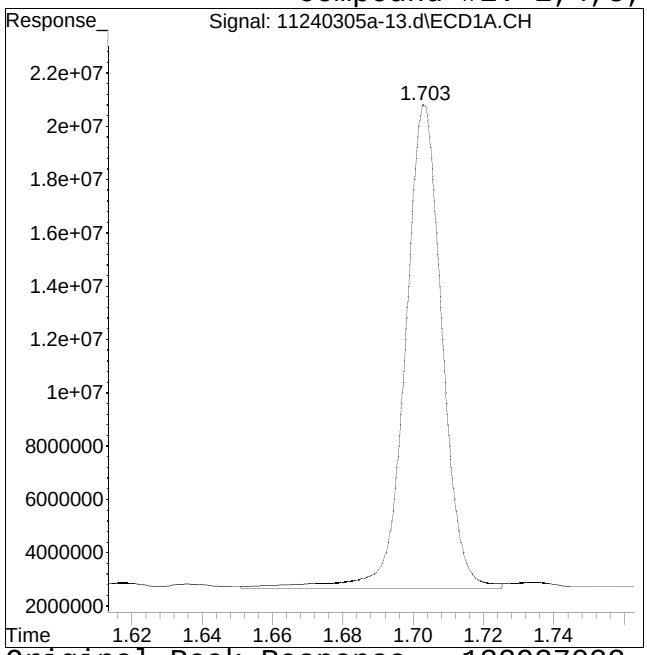


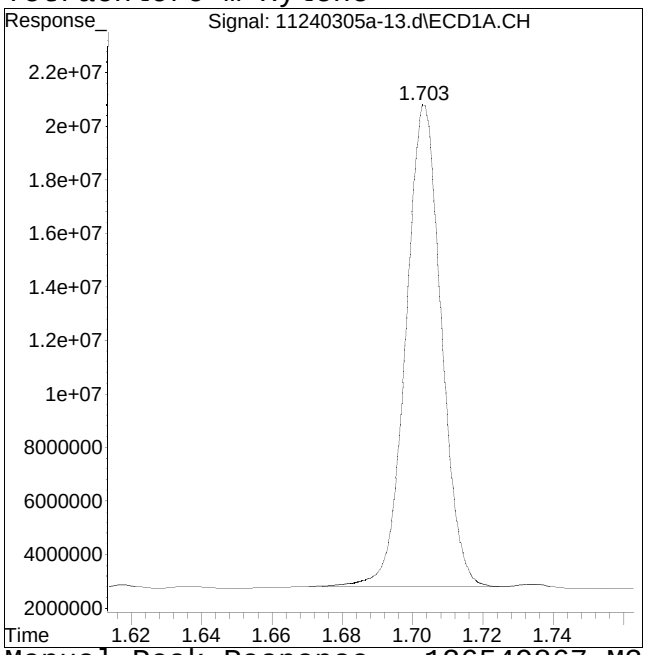
Original Peak Response = 211976211 Manual Peak Response = 204836407 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-13.d Operator : PEST11:mmg
Date Inj'd : 3/5/2024 9:51 am Instrument : Pest 11
Sample : L2410579-08,42,, p Quant Date : 3/5/2024 10:54 am

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



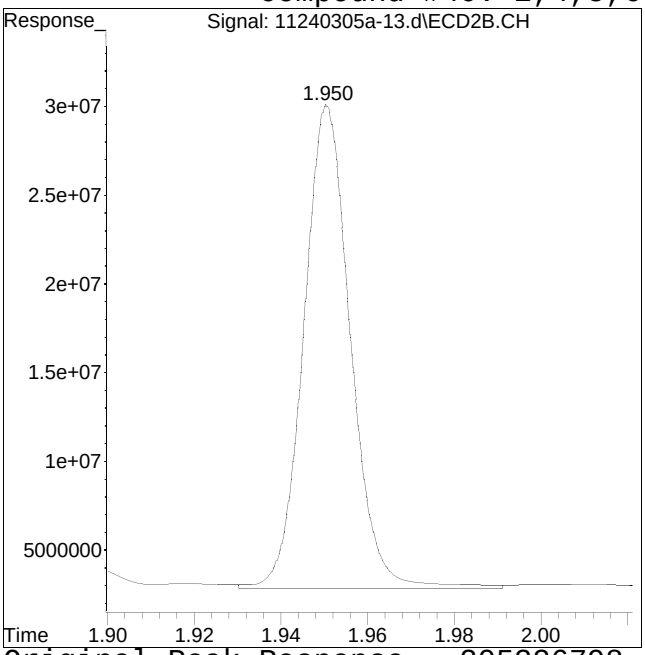


Original Peak Response = 132937022 Manual Peak Response = 126549867 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

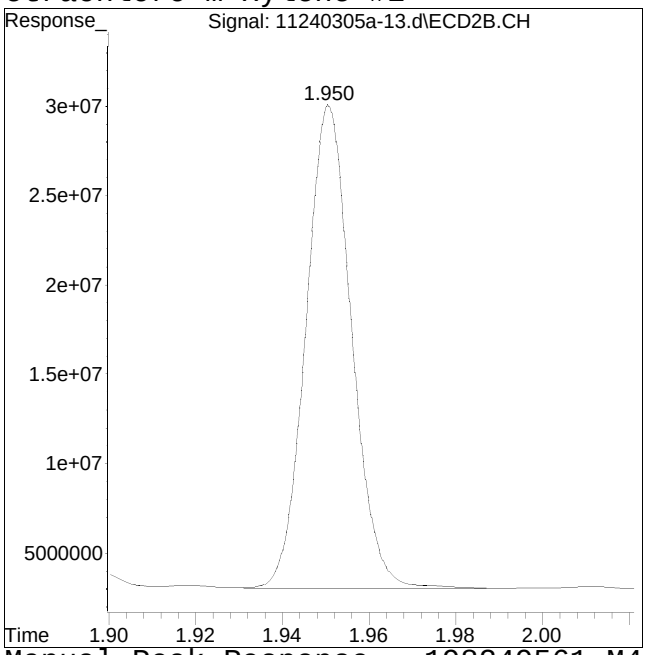
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-13.d Operator : PEST11:mmg
Date Inj'd : 3/5/2024 9:51 am Instrument : Pest 11
Sample : L2410579-08,42,, p Quant Date : 3/5/2024 10:54 am

Compound #40: 2,4,5,6-Tetrachloro-m-xylene #2



Original Peak Response = 205326798



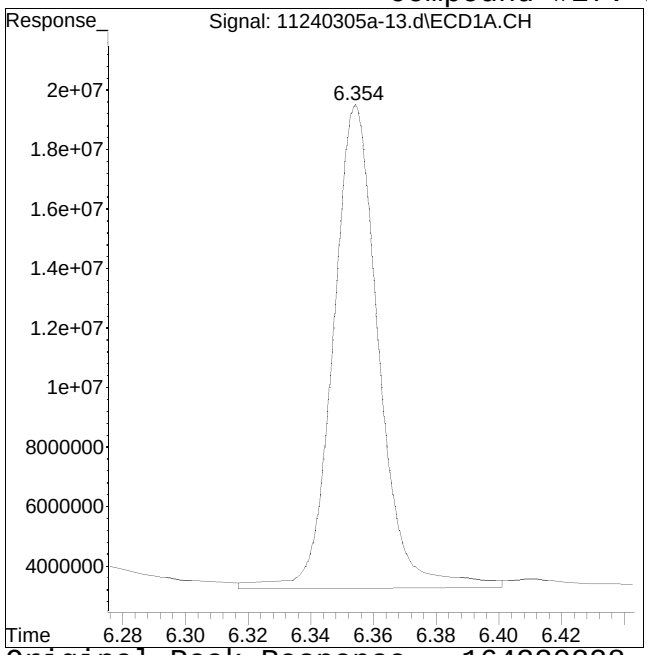
Manual Peak Response = 198249561 M4

M4 = Poor automated baseline construction.

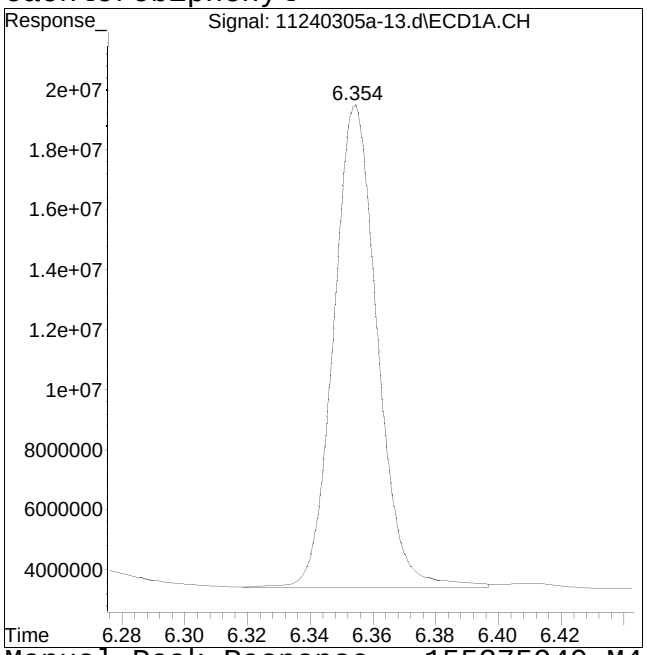
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-13.d Operator : PEST11:mmg
Date Inj'd : 3/5/2024 9:51 am Instrument : Pest 11
Sample : L2410579-08,42,, p Quant Date : 3/5/2024 10:54 am

Compound #27: Decachlorobiphenyl



Original Peak Response = 164230228



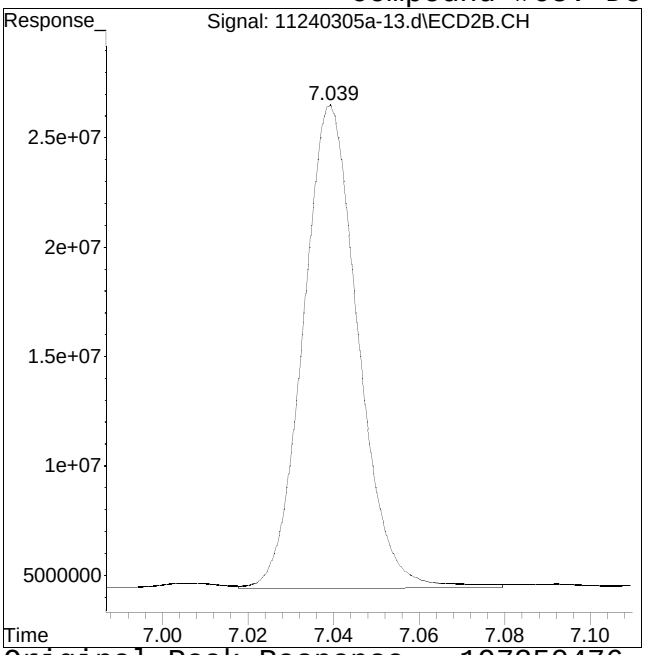
Manual Peak Response = 155375940 M4

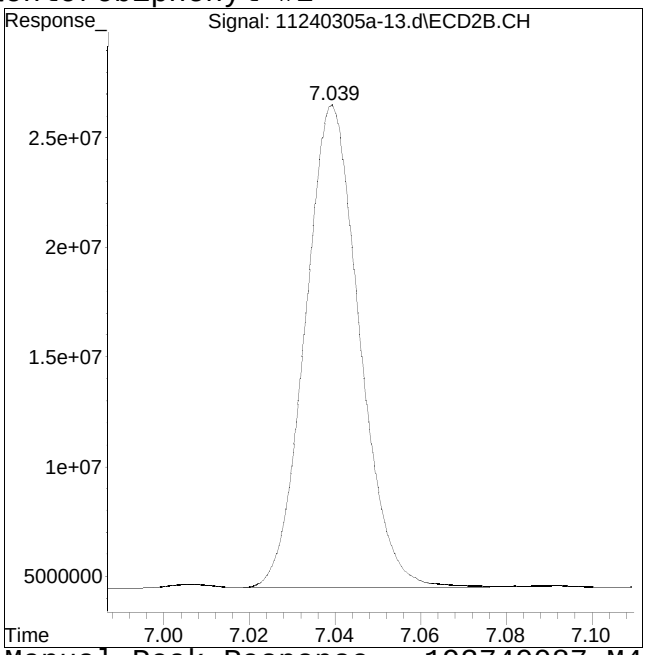
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-13.d Operator : PEST11:mmg
Date Inj'd : 3/5/2024 9:51 am Instrument : Pest 11
Sample : L2410579-08,42,, p Quant Date : 3/5/2024 10:54 am

Compound #65: Decachlorobiphenyl #2



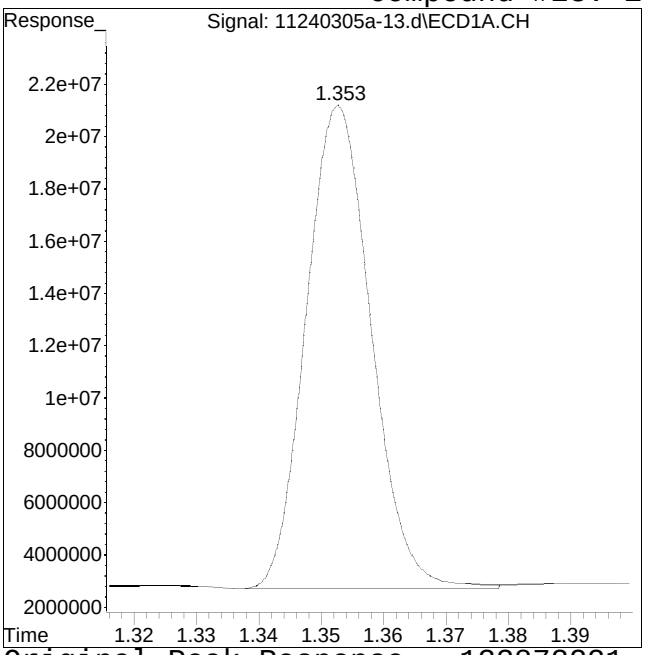


Original Peak Response = 197350476 Manual Peak Response = 193740087 M4
M4 = Poor automated baseline construction.

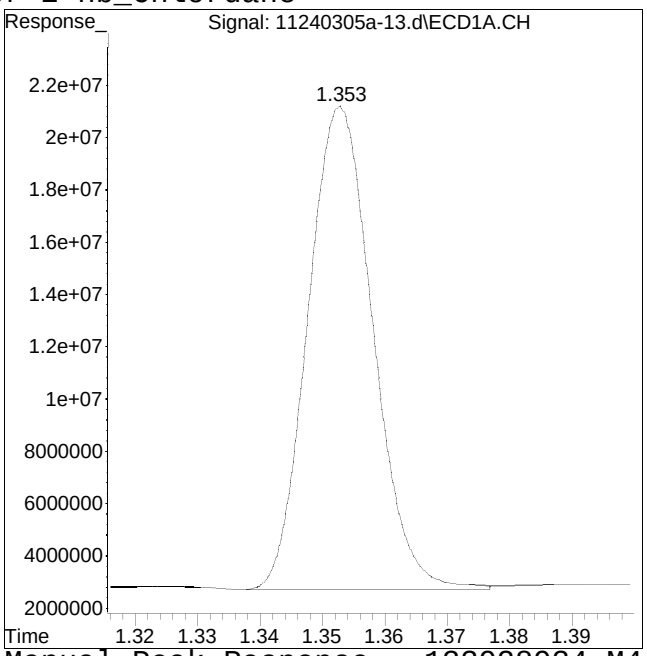
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-13.d Operator : PEST11:mmg
Date Inj'd : 3/5/2024 9:51 am Instrument : Pest 11
Sample : L2410579-08,42,, p Quant Date : 3/5/2024 10:54 am

Compound #28: 1-br-2-nb_Chlordane



Original Peak Response = 133872221



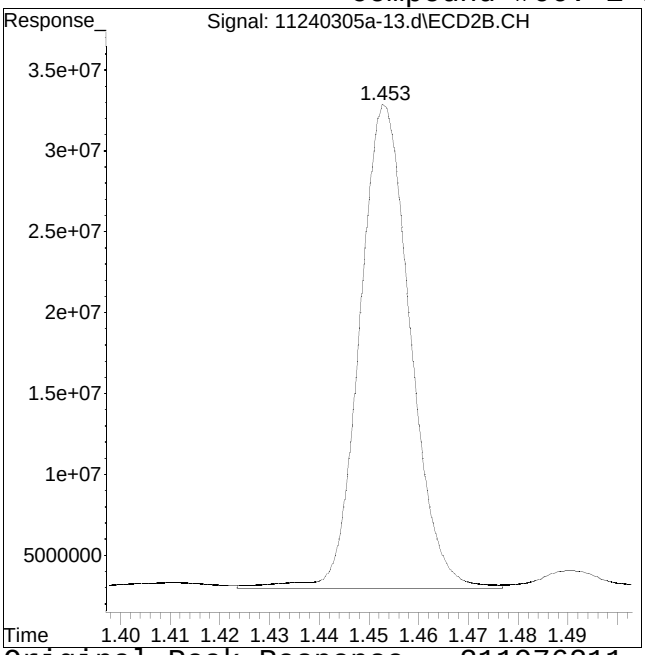
Manual Peak Response = 133928934 M4

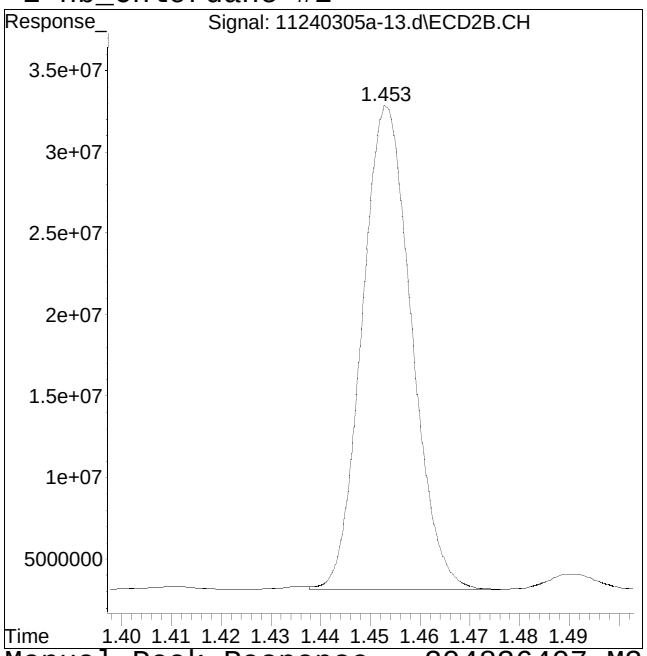
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-13.d Operator : PEST11:mmg
Date Inj'd : 3/5/2024 9:51 am Instrument : Pest 11
Sample : L2410579-08,42,, p Quant Date : 3/5/2024 10:54 am

Compound #66: 1-br-2-nb_Chlordane #2



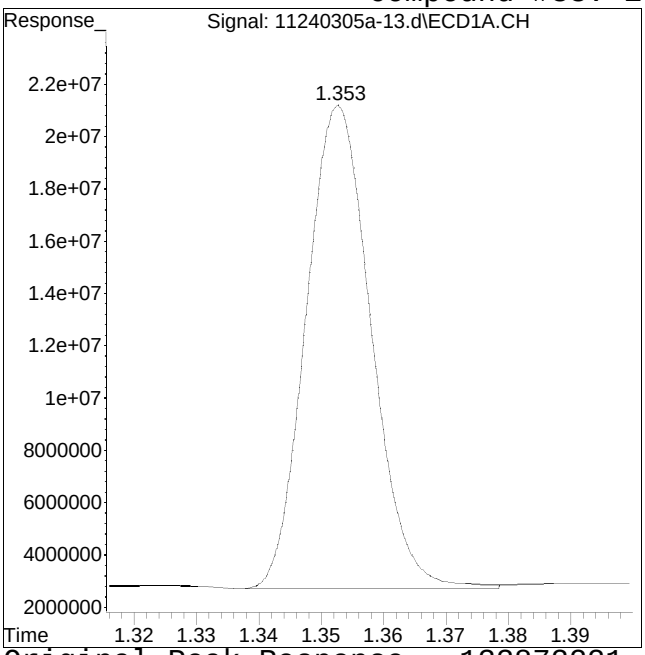


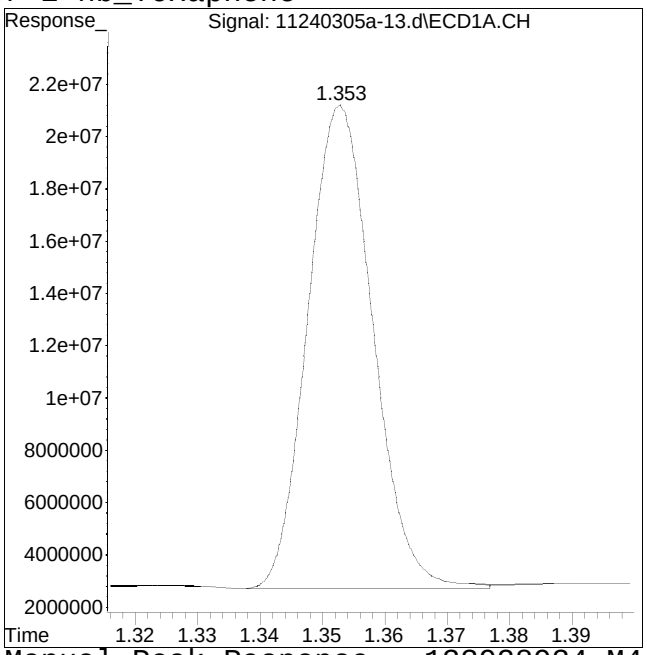
Original Peak Response = 211976211 Manual Peak Response = 204836407 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-13.d Operator : PEST11:mmg
Date Inj'd : 3/5/2024 9:51 am Instrument : Pest 11
Sample : L2410579-08,42,, p Quant Date : 3/5/2024 10:54 am

Compound #33: 1-br-2-nb_Toxaphene



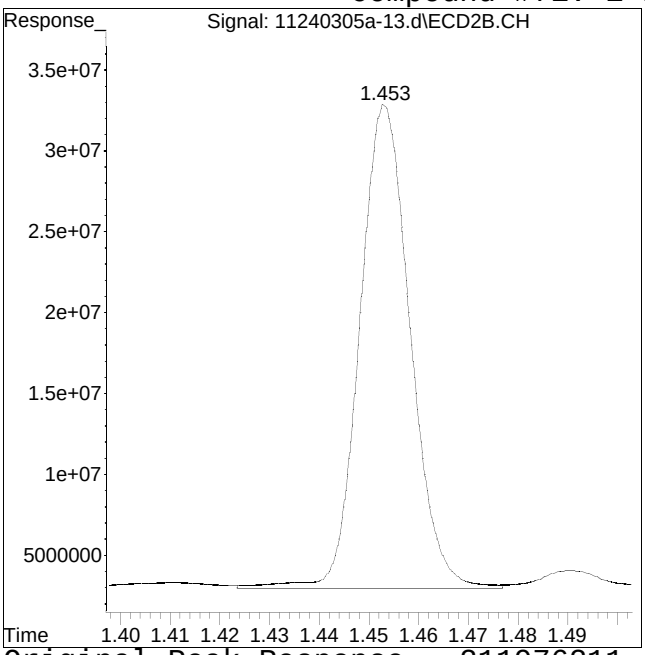


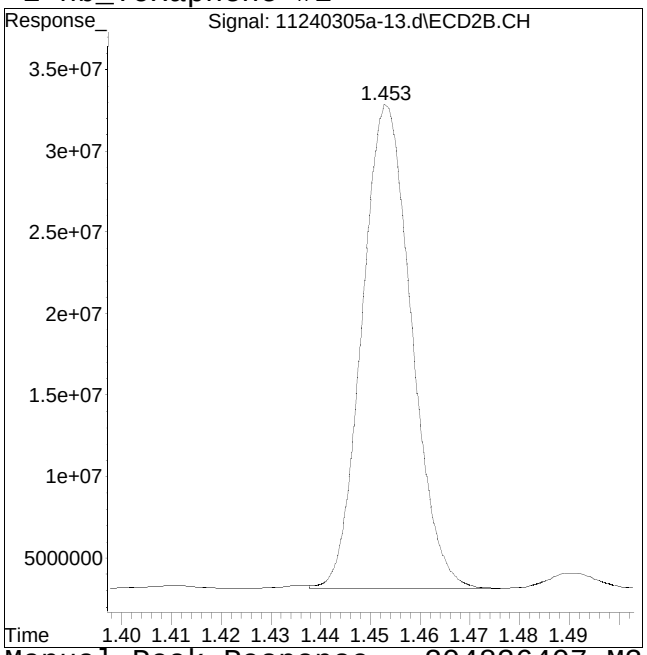
Original Peak Response = 133872221 Manual Peak Response = 133928934 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-13.d Operator : PEST11:mmg
Date Inj'd : 3/5/2024 9:51 am Instrument : Pest 11
Sample : L2410579-08,42,, p Quant Date : 3/5/2024 10:54 am

Compound #71: 1-br-2-nb_Toxaphene #2





Original Peak Response = 211976211 Manual Peak Response = 204836407 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240305a\
Data File : 11240305a-18.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 05 Mar 2024 12:34 pm
Operator : PEST11:mmg
Sample : L2410579-10,42,, rv
Misc : wg1892239,WG1892124,ical20697
ALS Vial : 18 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 05 12:57:55 2024
Quant Method : I:\PEST\Pest11\2024\240305A\pest11_12_19_23_ugL_ICAL20697.M
Quant Title : pest
QLast Update : Tue Mar 05 08:15:23 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest11\2024\240305A\11240305a-03.d
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards							
1) i	1-br-2-nb_Pe	1.350	1.449	82752927	144.1E6	25.000	25.000M4
	Standard Area 1 : #1 = 83711596				Recovery =	98.85%	
	Standard Area 1 : #2 = 125546766				Recovery =	114.76%	
28) i	1-br-2-nb_Ch	1.350	1.449	82752927	144.1E6	25.000	25.000M4
33) i	1-br-2-nb_To	1.350	1.449	82752927	144.1E6	25.000	25.000M4
System Monitoring Compounds							
2) s	2,4,5,6-Tetr	1.700	1.946	138.6E6	258.1E6	43.715M4	44.985M4
	Spiked Amount	50.000	Range 30 - 150		Recovery =	87.43%	89.97%
27) s	Decachlorobi	6.354	7.039	63002494	88685704	20.508M4	19.267M4
	Spiked Amount	50.000	Range 30 - 150		Recovery =	41.02%	38.53%
Target Compounds							
4) t	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5) t	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6) t	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7) t	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8) t	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9) t	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
12) t	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13) t	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14) t	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15) t	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17) t	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18) t	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19) t	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240305a\
Data File : 11240305a-18.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 05 Mar 2024 12:34 pm
Operator : PEST11:mmg
Sample : L2410579-10,42,, rv
Misc : wg1892239,WG1892124,ical20697
ALS Vial : 18 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 05 12:57:55 2024
Quant Method : I:\PEST\Pest11\2024\240305A\pest11_12_19_23_ugL_ICAL20697.M
Quant Title : pest
QLast Update : Tue Mar 05 08:15:23 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest11\2024\240305A\11240305a-03.d
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
21) t	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22) t	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d
23) t	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
25) t	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26) t	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum chlordane-1			0	0	N.D.	N.D.
	Average chlordane-1					0.000	0.000
34) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum toxaphene-2			0	0	N.D.	N.D.
	Average toxaphene-2					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument							
	Sum toxaphene-2			0	0	N.D.	N.D.
	Average toxaphene-2					0.000	0.000

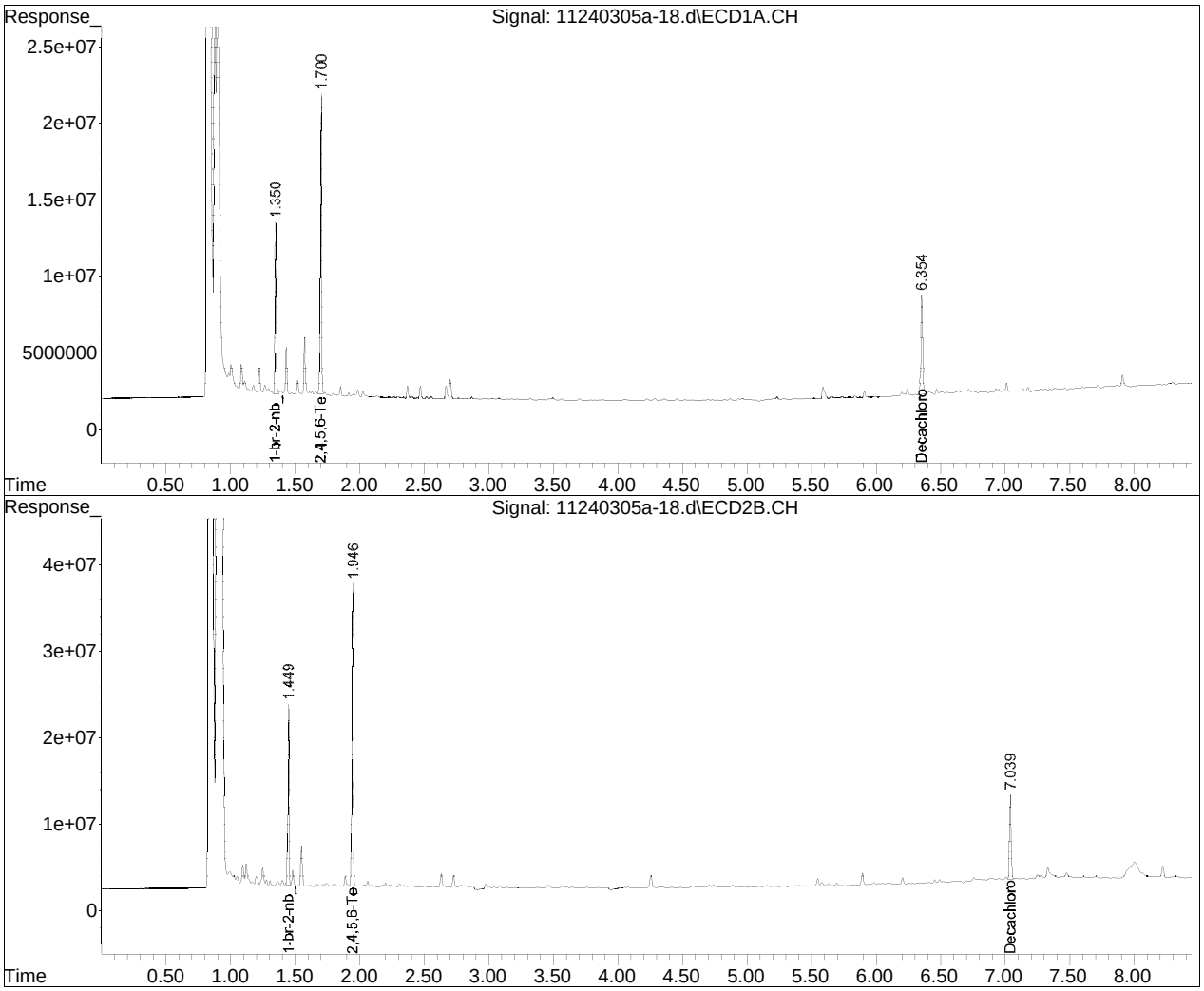
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listedA\11240305a-03.d••

Data Path : I:\PEST\Pest11\2024\240305a\
Data File : 11240305a-18.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 05 Mar 2024 12:34 pm
Operator : PEST11:mmg
Sample : L2410579-10,42,, rv
Misc : wg1892239,WG1892124,ical20697
ALS Vial : 18 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 05 12:57:55 2024
Quant Method : I:\PEST\Pest11\2024\240305A\pest11_12_19_23_ugL_ICAL20697.M
Quant Title : pest
QLast Update : Tue Mar 05 08:15:23 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

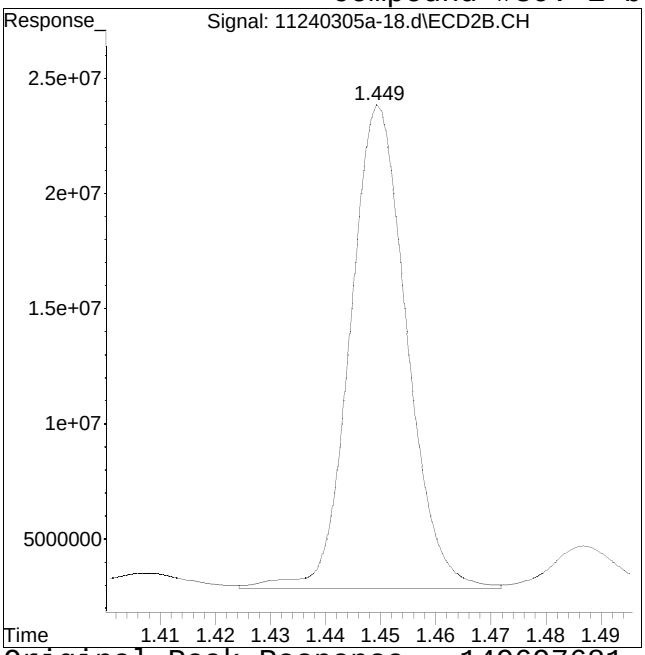
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

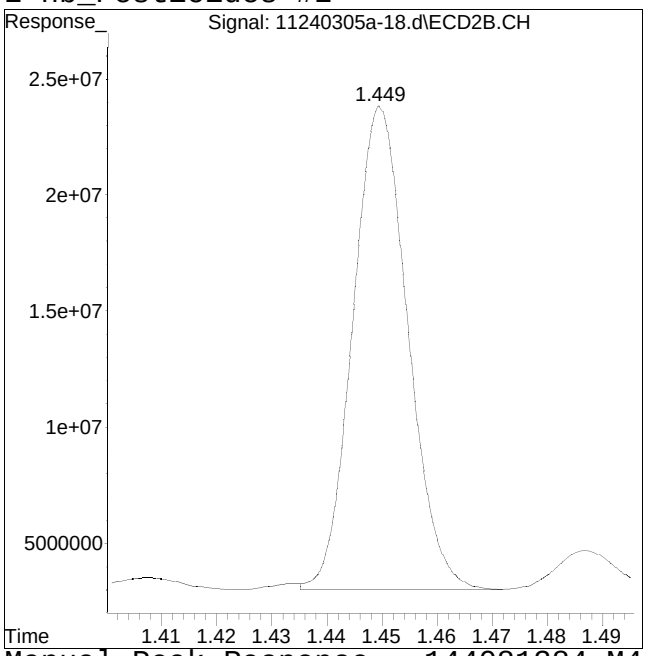


Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-18.d Operator : PEST11:mmg
Date Inj'd : 3/5/2024 12:34 pm Instrument : Pest 11
Sample : L2410579-10,42,, rv Quant Date : 3/5/2024 12:50 pm

Compound #39: 1-br-2-nb_Pesticides #2



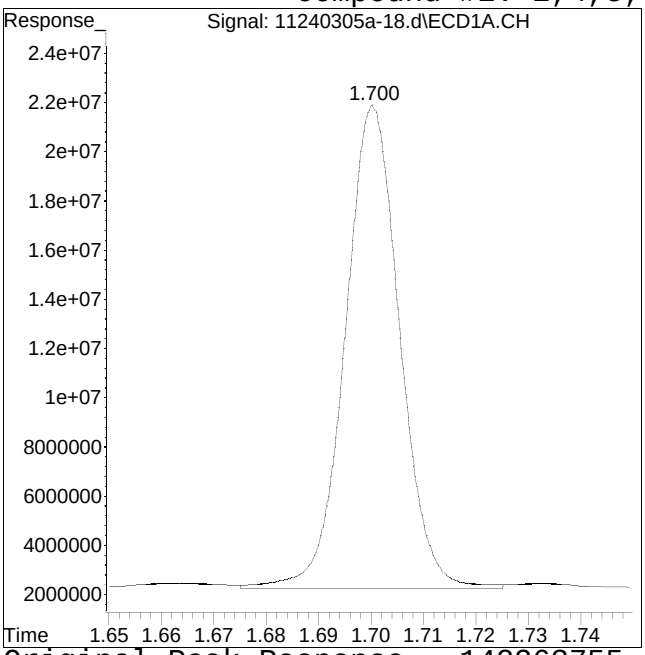


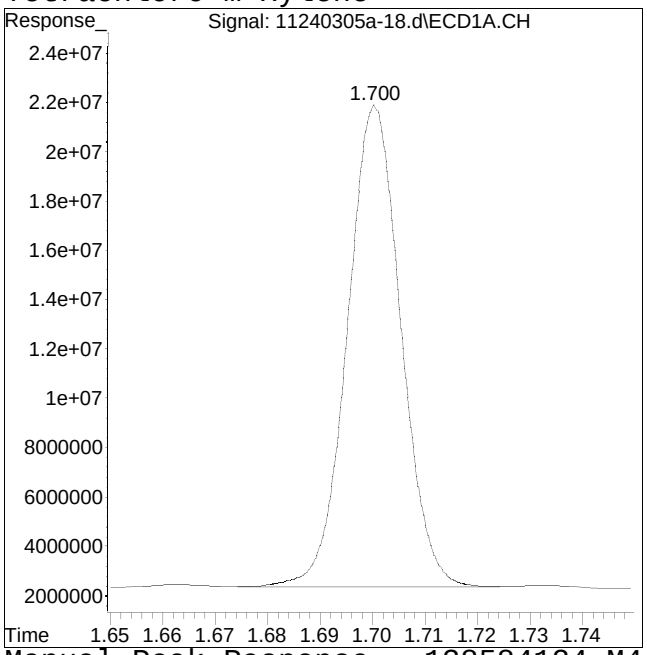
Original Peak Response = 149697681 Manual Peak Response = 144081384 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-18.d Operator : PEST11:mmg
Date Inj'd : 3/5/2024 12:34 pm Instrument : Pest 11
Sample : L2410579-10,42,, rv Quant Date : 3/5/2024 12:50 pm

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



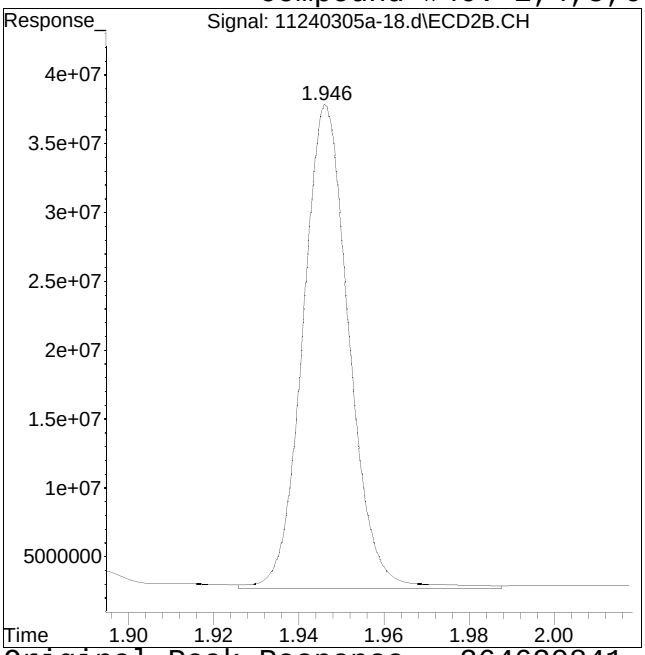


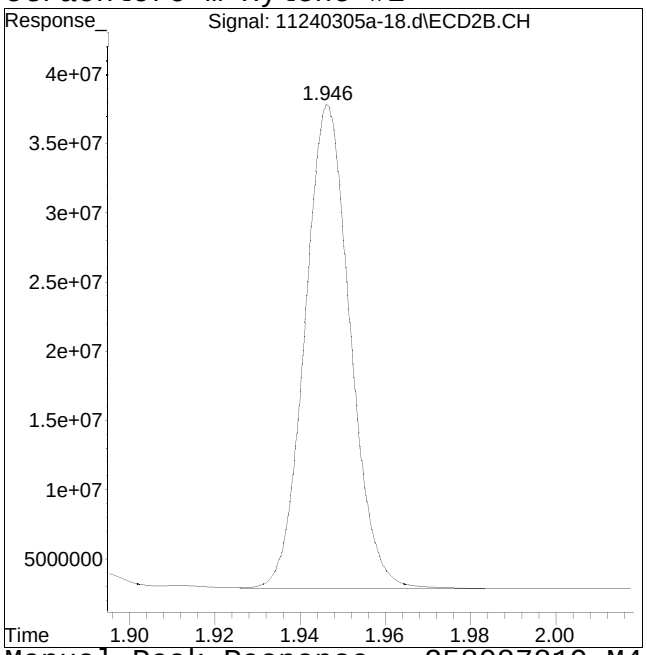
Original Peak Response = 142263755 Manual Peak Response = 138584124 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-18.d Operator : PEST11:mmg
Date Inj'd : 3/5/2024 12:34 pm Instrument : Pest 11
Sample : L2410579-10,42,, rv Quant Date : 3/5/2024 12:50 pm

Compound #40: 2,4,5,6-Tetrachloro-m-xylene #2



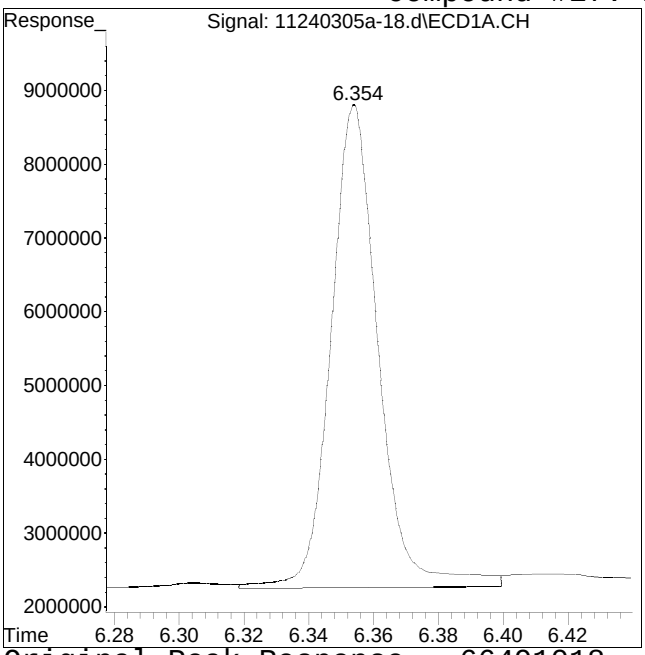


Original Peak Response = 264620841 Manual Peak Response = 258087819 M4
M4 = Poor automated baseline construction.

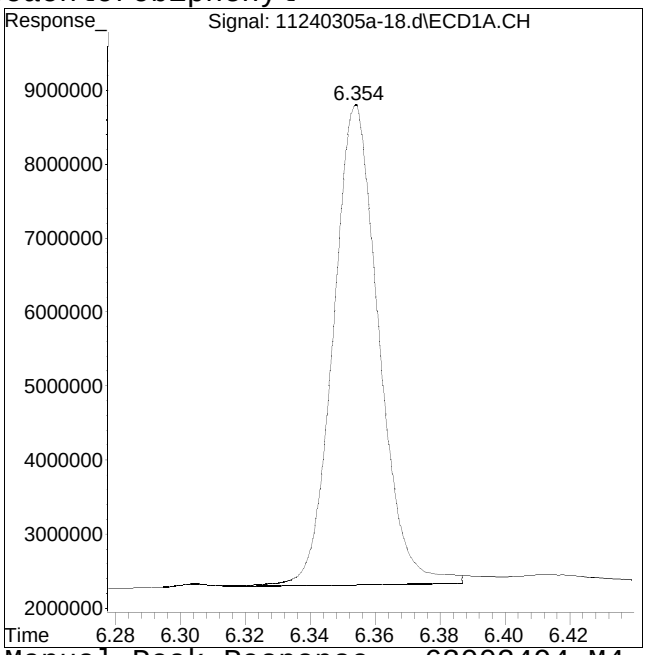
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-18.d Operator : PEST11:mmg
Date Inj'd : 3/5/2024 12:34 pm Instrument : Pest 11
Sample : L2410579-10,42,, rv Quant Date : 3/5/2024 12:50 pm

Compound #27: Decachlorobiphenyl



Original Peak Response = 66491018



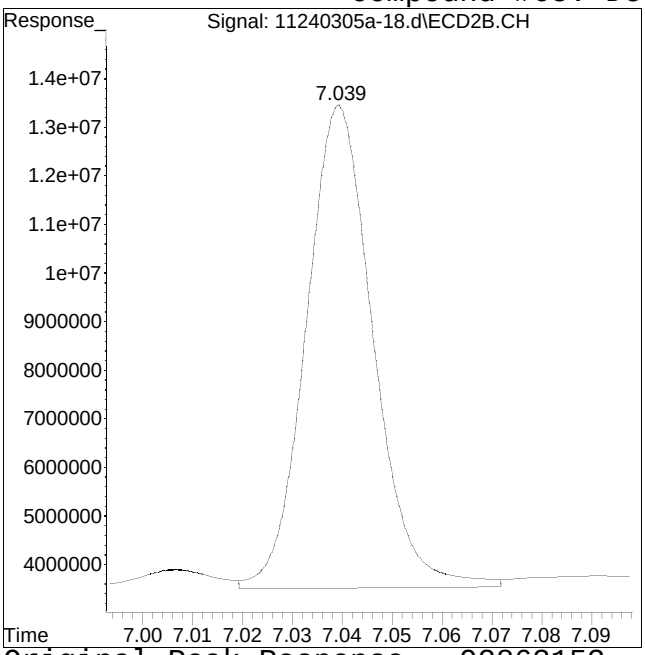
Manual Peak Response = 63002494 M4

M4 = Poor automated baseline construction.

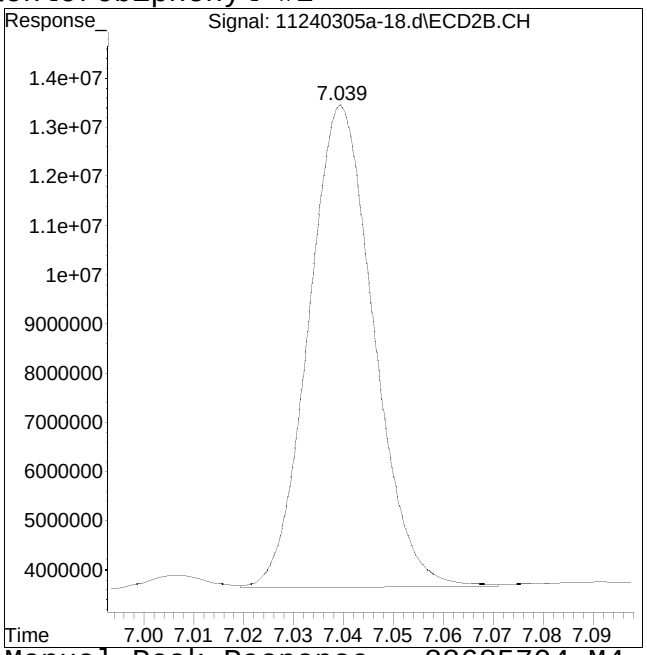
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-18.d Operator : PEST11:mmg
Date Inj'd : 3/5/2024 12:34 pm Instrument : Pest 11
Sample : L2410579-10,42,, rv Quant Date : 3/5/2024 12:50 pm

Compound #65: Decachlorobiphenyl #2



Original Peak Response = 92863153



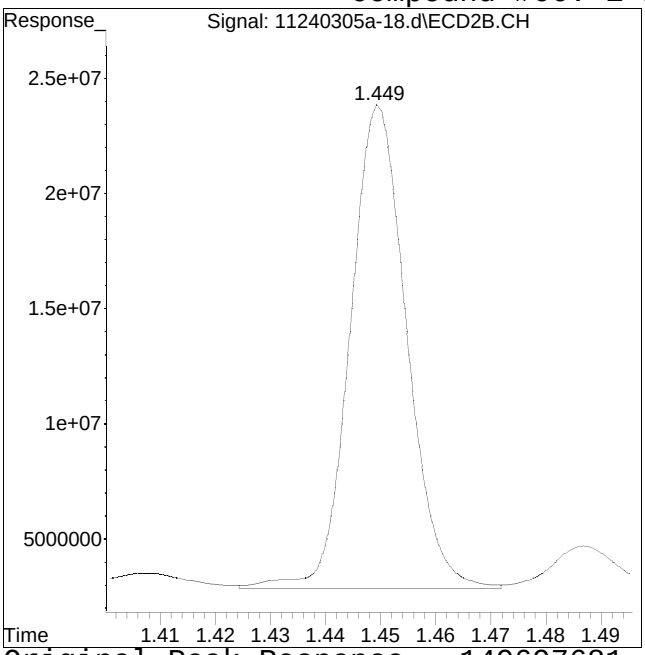
Manual Peak Response = 88685704 M4

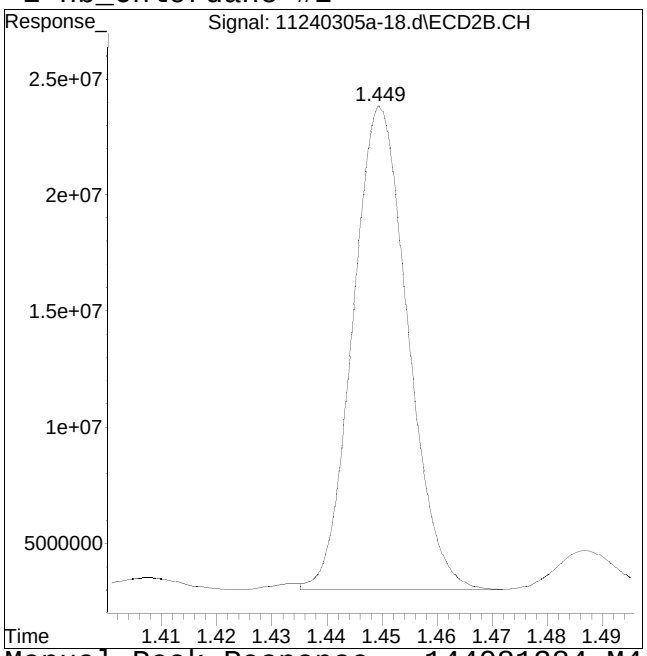
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-18.d Operator : PEST11:mmg
Date Inj'd : 3/5/2024 12:34 pm Instrument : Pest 11
Sample : L2410579-10,42,, rv Quant Date : 3/5/2024 12:50 pm

Compound #66: 1-br-2-nb_Chlordane #2



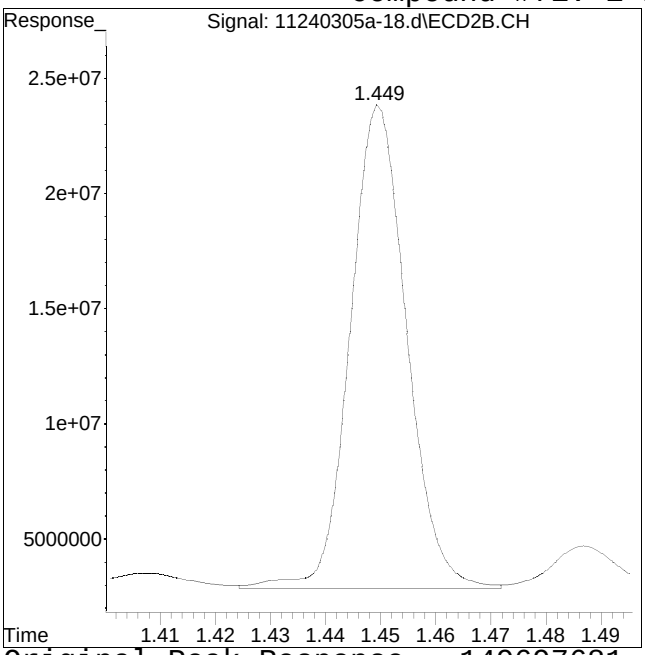


Original Peak Response = 149697681 Manual Peak Response = 144081384 M4
M4 = Poor automated baseline construction.

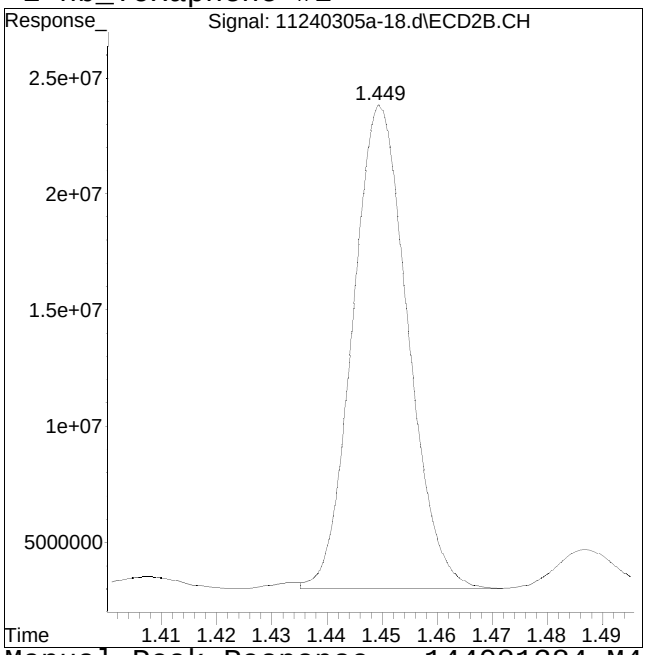
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-18.d Operator : PEST11:mmg
Date Inj'd : 3/5/2024 12:34 pm Instrument : Pest 11
Sample : L2410579-10,42,, rv Quant Date : 3/5/2024 12:50 pm

Compound #71: 1-br-2-nb_Toxaphene #2



Original Peak Response = 149697681



Manual Peak Response = 144081384 M4

M4 = Poor automated baseline construction.

Pesticides Standards Data

Initial Calibration

Initial Calibration Summary
Form 6
Pesticides

Client	**: Alpha Geoscience**	**Lab Number**	**: L2410579**
Project Name	**: HUNTINGTON READY MIX**	**Project Number**	**: 20116**
Instrument ID	**: PEST20**	**Ical Ref**	**: ICAL20686**
Calibration dates	**: 12/15/23 16:59 12/15/23 21:20**		

Calibration Files

1 =20231215i-03.D 2 =20231215i-04.D 3 =20231215i-22.D 4 =20231215i-15.D 5 =20231215i-16.D
7 =20231215i-17.D 8 =20231215i-23.D 9 =20231215i-24.D 10 =20231215i-20.D 11 =20231215i-12.D

		Compound	1	2	3	4	5	7	8	9	10	11	Avg	%RSD
1)	i	1-br-2-nb_Pesticides	ISTD											
2)	s	2,4,5,6-Tetrachloro-m-xylene		1.414	1.284	1.235	1.226	1.108	1.007	0.977	0.984	0.955	1.132	14.50
3)		Hexachlorobenzene			1.602	1.485	1.405	1.283	1.116	1.069	1.073	1.042	*L	0.999
6)														
4)		alpha-BHC			1.524	1.502	1.431	1.388	1.340	1.336	1.335	1.379	1.366	1.400	5.07
5)		gamma-BHC (li	1.429	1.417	1.426	1.360	1.305	1.240	1.196	1.185	1.218	1.205	1.298	7.85
6)		beta-BHC			0.790	0.751	0.729	0.664	0.565	0.539	0.537	0.523	*L	0.999
4)														
7)		delta-BHC			1.437	1.411	1.349	1.303	1.244	1.219	1.214	1.254	1.247	*L	0.999
8)														
8)		Heptachlor			1.441	1.433	1.335	1.275	1.172	1.077	1.058	1.059	1.037	*L	0.999
7)														
9)		Aldrin			1.396	1.407	1.332	1.293	1.218	1.173	1.160	1.189	1.164	1.259	7.94
10)		Alachlor			0.190	0.208	0.211	0.208	0.207	0.183	0.165	0.159		0.191	10.84
11)		Chlorpyrifos				0.709	0.676	0.642	0.596	0.482	0.449	0.421		*L	0.996
6)														
12)		Heptachlor Ep			1.420	1.391	1.319	1.270	1.162	1.054	1.023	1.034	1.005	*L	0.999
6)														
13)		gamma-Chlorda			1.306	1.295	1.217	1.167	1.073	0.987	0.966	0.983	0.966	1.107	12.85
14)		alpha-Chlorda			1.514	1.487	1.397	1.338	1.248	1.128	1.098	1.105	1.083	*L	0.999
7)														
15)		4,4'-DDE			1.302	1.332	1.267	1.224	1.171	1.133	1.128	1.145	1.115	1.202	6.81
16)		Endosulfan I			1.303	1.318	1.257	1.197	1.119	1.017	0.996	1.001	0.977	*L	0.999
6)														
17)		Dieldrin		1.322	1.284	1.229	1.190	1.124	1.059	1.047	1.061	1.040	1.151	9.46	
18)		Endrin		1.270	1.287	1.214	1.160	1.093	1.030	1.013	1.014	0.990	1.119	10.45	
19)		4,4'-DDD		0.981	0.999	0.959	0.926	0.884	0.847	0.840	0.844	0.831	0.901	7.34	
20)		Endosulfan II		1.184	1.200	1.133	1.083	1.008	0.920	0.895	0.891	0.867	1.020	13.06	
21)		4,4'-DDT		0.998	1.030	0.956	0.914	0.874	0.815	0.812	0.801	0.793	0.888	10.18	
22)		Endrin Aldehyde			0.996	0.963	0.917	0.849	0.787	0.775	0.759	0.742	*L	0.999	
7)														
23)		Methoxychlor			0.624	0.590	0.569	0.534	0.464	0.443	0.413	0.392	*L	0.997	
0)														
24)		Mirex			1.241	1.148	1.092	0.969	0.812	0.766	0.734	0.705	*L	0.998	
3)														
25)		Endosulfan Su		1.155	1.162	1.109	1.041	0.961	0.859	0.824	0.813		0.990	14.81	

Initial Calibration Summary
Form 6
Pesticides

Client	**: Alpha Geoscience**	**Lab Number**	**: L2410579**
Project Name	**: HUNTINGTON READY MIX**	**Project Number**	**: 20116**
Instrument ID	**: PEST20**	**Ical Ref**	**: ICAL20686**
Calibration dates	**: 12/15/23 16:59 12/15/23 21:20**		

Calibration Files

1 =20231215i-03.D 2 =20231215i-04.D 3 =20231215i-22.D 4 =20231215i-15.D 5 =20231215i-16.D
7 =20231215i-17.D 8 =20231215i-23.D 9 =20231215i-24.D 10 =20231215i-20.D 11 =20231215i-12.D

		Compound	1	2	3	4	5	7	8	9	10	11	Avg	%RSD
26)		Endrin Ketone	1.245	1.242	1.169	1.117	1.032	0.942	0.915	0.892	0.857		1.046	14.58
27)	s	Decachlorobip			1.572	1.455	1.378	1.236	1.062	1.003	0.970	0.921	*L	0.998
2)														
28)	i	1-br-2-nb_Chlordane	----------ISTD----------											
29)	l1	chlordane-1			0.045	0.046	0.043	0.037	0.037	0.033	0.035		*L	0.998
7)														
30)	l1	chlordane-3			0.054	0.058	0.051	0.043	0.042	0.036	0.038		*L	0.996
7)														
31)	l1	chlordane-4			0.177	0.178	0.150	0.137	0.139	0.127	0.136		*L	0.999
0)														
32)	l1	chlordane-5			0.276	0.276	0.232	0.214	0.215	0.196	0.209		*L	0.998
9)														
33)	i	1-br-2-nb_Toxaphene	----------ISTD----------											
34)	l2	toxaphene-1			0.042			0.036	0.036				*L	0.999
9)														
35)	l2	toxaphene-2			0.024			0.026	0.027				*L	0.999
8)														
36)	l2	toxaphene-4			0.025			0.020	0.020				*L	0.999
8)														
37)	l2	toxaphene-5			0.041			0.031	0.032				*L	0.999
9)														

Initial Calibration Summary
Form 6
Pesticides

Client	**: Alpha Geoscience**	**Lab Number**	**: L2410579**
Project Name	**: HUNTINGTON READY MIX**	**Project Number**	**: 20116**
Instrument ID	**: PEST20**	**Ical Ref**	**: ICAL20686**
Calibration dates	**: 12/15/23 16:59 12/15/23 21:20**		

Signal #2 Calibration Files

1 =20231215i-03.D 2 =20231215i-04.D 3 =20231215i-22.D 4 =20231215i-15.D 5 =20231215i-16.D
7 =20231215i-17.D 8 =20231215i-23.D 9 =20231215i-24.D 10 =20231215i-20.D 11 =20231215i-12.D

		Compound	1	2	3	4	5	7	8	9	10	11	Avg	%RSD
1)	i	1-br-2-nb_Pesticides	----------ISTD----------											
2)	s	2,4,5,6-Tetra			1.431	1.423	1.348	1.281	1.219	1.108	1.069	1.076	1.031	1.221	12.89
3)		Hexachloroben				1.655	1.539	1.468	1.336	1.157	1.099	1.099	1.052	*L	0.999
2)															
4)		alpha-BHC			1.563	1.560	1.501	1.447	1.415	1.406	1.392	1.441	1.412	1.460	4.51
5)		gamma-BHC (li	.478	1.486	1.491	1.426	1.372	1.316	1.262	1.242	1.274	1.246	1.359	7.65
6)		beta-BHC				0.824	0.794	0.767	0.713	0.616	0.585	0.584	0.564	*L	0.999
3)															
7)		delta-BHC			1.446	1.468	1.402	1.349	1.315	1.287	1.279	1.321	1.301	1.352	5.18
8)		Heptachlor			1.380	1.382	1.325	1.261	1.174	1.074	1.049	1.055	1.027	1.192	12.41
9)		Aldrin			1.391	1.388	1.328	1.283	1.226	1.184	1.166	1.192	1.154	1.257	7.44
10)		Alachlor	0.189	0.206	0.194	0.194	0.188	0.174	0.159	0.151			0.182	10.42	
11)		Chlorpyrifos			0.741	0.724	0.701	0.668	0.552	0.515	0.488		0.627	16.85	
12)		Heptachlor Ep	1.478	1.410	1.351	1.314	1.210	1.113	1.085	1.098	1.062	*L	0.999		
6)															
13)		gamma-Chlorda	1.212	1.248	1.190	1.137	1.076	0.986	0.965	0.978	0.955	1.083	10.78		
14)		alpha-Chlorda	1.439	1.424	1.356	1.298	1.216	1.116	1.090	1.098	1.065	*L	0.999		
6)															
15)		4,4'-DDE	1.289	1.314	1.250	1.190	1.159	1.138	1.129	1.134	1.092	1.188	6.57		
16)		Endosulfan I	1.298	1.282	1.236	1.172	1.131	1.044	1.026	1.038	1.001	1.136	10.20		
17)		Dieldrin	1.277	1.280	1.220	1.180	1.119	1.072	1.061	1.076	1.048	1.148	8.14		
18)		Endrin	1.291	1.275	1.224	1.169	1.116	1.067	1.047	1.058	1.025	1.141	8.93		
19)		4,4'-DDD	1.004	1.010	0.969	0.929	0.898	0.866	0.858	0.864	0.839	0.915	7.13		
20)		Endosulfan II	1.185	1.183	1.123	1.068	1.018	0.944	0.922	0.918	0.892	1.028	11.33		
21)		4,4'-DDT	1.041	1.055	1.007	0.953	0.905	0.856	0.850	0.834	0.817	0.924	10.01		
22)		Endrin Aldehyde			0.979	0.956	0.900	0.848	0.812	0.800	0.789	0.768	*L	0.999	
7)															
23)		Methoxychlor			0.621	0.609	0.588	0.553	0.485	0.465	0.437	0.415	*L	0.997	
3)															
24)		Mirex			1.232	1.139	1.073	0.965	0.804	0.759	0.731	0.704	*L	0.998	
5)															
25)		Endosulfan Su	1.125	1.143	1.078	1.031	0.960	0.873	0.847	0.837			0.987	12.67	
26)		Endrin Ketone	1.234	1.241	1.187	1.118	1.052	0.973	0.959	0.933	0.898	1.066	12.50		
27)	s	Decachlorobip			1.469	1.364	1.276	1.159	0.992	0.934	0.892	0.834	*L	0.997	
1)															
28)	i	1-br-2-nb_Chlordane	----------ISTD----------												

Initial Calibration Summary
Form 6
Pesticides

Client	**: Alpha Geoscience**	**Lab Number**	**: L2410579**
Project Name	**: HUNTINGTON READY MIX**	**Project Number**	**: 20116**
Instrument ID	**: PEST20**	**Ical Ref**	**: ICAL20686**
Calibration dates	**: 12/15/23 16:59 12/15/23 21:20**		

Signal #2 Calibration Files

1 =20231215i-03.D 2 =20231215i-04.D 3 =20231215i-22.D 4 =20231215i-15.D 5 =20231215i-16.D
7 =20231215i-17.D 8 =20231215i-23.D 9 =20231215i-24.D 10 =20231215i-20.D 11 =20231215i-12.D

		Compound	1	2	3	4	5	7	8	9	10	11	Avg	%RSD
29) 7)	l1	chlordane-1	0.045	0.046	0.042	0.037	0.037	0.034	0.035				*L	0.998
30) 0)	l1	chlordane-3	0.052	0.055	0.049	0.043	0.041	0.036	0.036				*L	0.996
31) 1)	l1	chlordane-4	0.154	0.159	0.137	0.129	0.130	0.118	0.124				*L	0.999
32) 9)	l1	chlordane-5	0.129	0.133	0.115	0.108	0.107	0.097	0.101				*L	0.998
33)	i	1-br-2-nb_Toxaphene	----------ISTD----------											
34) 8)	l2	toxaphene-1	0.018					0.020	0.021				*L	0.999
35) 0)	l2	toxaphene-2	0.032					0.031	0.031				*L	1.000
36) 9)	l2	toxaphene-4	0.035					0.035	0.036				*L	0.999
37) 4)	l2	toxaphene-5	0.036					0.030	0.032				*L	0.999

Initial Calibration Summary
Form 6
Pesticides

Client	**: Alpha Geoscience**	**Lab Number**	**: L2410579**
Project Name	**: HUNTINGTON READY MIX**	**Project Number**	**: 20116**
Instrument ID	**: PEST11**	**Ical Ref**	**: ICAL20697**
Calibration dates	**: 12/19/23 13:48 12/19/23 17:57**		

Calibration Files

1 =11231219i-03.d 2 =11231219i-04.d 3 =11231219i-22.d 4 =11231219i-15.d 5 =11231219i-16.d

7 =11231219i-17.d 8 =11231219i-23.d 9 =11231219i-24.d 10 =11231219i-20.d 11 =11231219i-12.d

		Compound	1	2	3	4	5	7	8	9	10	11	Avg	%RSD
1)	i	1-br-2-nb_Pesticides	----------ISTD----------											
2)	s	2,4,5,6-Tetrachloro-m-xylene		1.021	0.987	0.999	0.950	0.932	0.934	0.950	0.937	0.910	0.958	3.81
3)	t	Hexachlorobenzene		1.243	1.199	1.199	1.141	1.093	1.042	1.044	1.029	1.005	1.110	7.89
4)	t	alpha-BHC		1.230	1.211	1.242	1.210	1.261	1.419	1.482	1.500	1.485	1.338	9.69
5)	t	gamma-BHC (li	1.271	1.229	1.205	1.231	1.192	1.221	1.321	1.367	1.379	1.362	1.278	5.69
6)	t	beta-BHC		0.686	0.664	0.664	0.628	0.598	0.567	0.571	0.568	0.562	*L	0.999
9)														
7)	t	delta-BHC		1.272	1.188	1.210	1.172	1.207	1.344	1.406	1.427	1.424	1.294	8.24
8)	t	Heptachlor		1.380	1.325	1.336	1.273	1.265	1.303	1.332	1.310	1.256	1.309	3.04
9)	t	Aldrin		1.180	1.159	1.159	1.116	1.132	1.204	1.253	1.256	1.223	1.187	4.25
10)	t	Alachlor			0.214	0.221	0.206	0.201	0.177	0.169	0.155		0.192	12.94
11)	t	Chlorpyrifos			0.776	0.766	0.716	0.680	0.586	0.568	0.532		*L	0.998
1)														
12)	t	Heptachlor Ep		1.292	1.250	1.239	1.182	1.167	1.161	1.187	1.170	1.129	1.198	4.31
13)	t	gamma-Chlorda		1.207	1.139	1.114	1.045	1.031	1.038	1.076	1.089	1.082	1.091	5.12
14)	t	alpha-Chlorda		1.327	1.296	1.283	1.215	1.197	1.185	1.224	1.225	1.213	1.241	3.95
15)	t	4,4'-DDE		1.088	1.077	1.086	1.038	1.071	1.137	1.208	1.222	1.213	1.126	6.25
16)	t	Endosulfan I		1.498	1.186	1.180	1.125	1.113	1.103	1.135	1.122	1.087	1.172	10.77
17)	t	Dieldrin	1.281	1.169	1.159	1.097	1.103	1.136	1.190	1.198	1.177		1.168	4.75
18)	t	Endrin	1.219	1.180	1.178	1.123	1.141	1.181	1.232	1.223	1.195		1.186	3.09
19)	t	4,4'-DDD	0.912	0.912	0.912	0.867	0.893	0.929	0.985	0.999	0.996		0.934	5.13
20)	t	Endosulfan II	1.186	1.141	1.141	1.091	1.080	1.062	1.087	1.063	1.001		1.095	4.97
21)	t	4,4'-DDT	1.169	1.101	1.101	1.050	1.068	1.087	1.144	1.147	1.134		1.111	3.58
22)	t	Endrin Aldehyde			0.959	0.955	0.906	0.900	0.874	0.907	0.898	0.868	*L	0.999
6)														
23)	t	Methoxychlor	0.911	0.751	0.736	0.698	0.679	0.605	0.603	0.573			*L	0.999
1)														
24)	t	Mirex			1.249	1.210	1.142	1.084	0.924	0.923	0.893		*L	0.999
4)														
25)	t	Endosulfan Su	1.198	1.157	1.151	1.089	1.071	1.006	1.026	1.007	0.979		1.076	7.27
26)	t	Endrin Ketone	1.315	1.273	1.278	1.227	1.223	1.171	1.187	1.154	1.104		1.215	5.55
27)	s	Decachlorobip			1.227	1.213	1.146	1.082	0.928	0.929	0.899	0.857	*L	0.998
8)														
28)	i	1-br-2-nb_Chlordane	----------ISTD----------											
29)	l1	chlordane-1			0.042	0.041	0.037	0.036	0.037	0.035	0.037		*L	0.999
6)														

Initial Calibration Summary
Form 6
Pesticides

Client	**: Alpha Geoscience**	**Lab Number**	**: L2410579**
Project Name	**: HUNTINGTON READY MIX**	**Project Number**	**: 20116**
Instrument ID	**: PEST11**	**Ical Ref**	**: ICAL20697**
Calibration dates	**: 12/19/23 13:48 12/19/23 17:57**		

Calibration Files

1 =11231219i-03.d 2 =11231219i-04.d 3 =11231219i-22.d 4 =11231219i-15.d 5 =11231219i-16.d

7 =11231219i-17.d 8 =11231219i-23.d 9 =11231219i-24.d 10 =11231219i-20.d 11 =11231219i-12.d

		Compound	1	2	3	4	5	7	8	9	10	11	Avg	%RSD
30)	l1	chlordane-3	0.054	0.054	0.049	0.044	0.044	0.040	0.040				*L	0.998
7)														
31)	l1	chlordane-4	0.171	0.161	0.147	0.146	0.154	0.145	0.150				*L	0.999
6)														
32)	l1	chlordane-5	0.266	0.252	0.231	0.229	0.240	0.224	0.230				*L	0.999
6)														
33)	i	1-br-2-nb_Toxaphene	----------ISTD----------											
34)	l2	toxaphene-2	0.055					0.062	0.061				0.059	6.15
35)	l2	toxaphene-3	0.038					0.045	0.046				0.043	10.26
36)	l2	toxaphene-4	0.049					0.050	0.051				0.050	2.09
37)	l2	toxaphene-5	0.043					0.046	0.047				0.045	4.31

Initial Calibration Summary
Form 6
Pesticides

Client	**: Alpha Geoscience**	**Lab Number**	**: L2410579**
Project Name	**: HUNTINGTON READY MIX**	**Project Number**	**: 20116**
Instrument ID	**: PEST11**	**Ical Ref**	**: ICAL20697**
Calibration dates	**: 12/19/23 13:48 12/19/23 17:57**		

Signal #2 Calibration Files

1 =11231219i-03.d 2 =11231219i-04.d 3 =11231219i-22.d 4 =11231219i-15.d 5 =11231219i-16.d
7 =11231219i-17.d 8 =11231219i-23.d 9 =11231219i-24.d 10 =11231219i-20.d 11 =11231219i-12.d

		Compound	1	2	3	4	5	7	8	9	10	11	Avg	%RSD
1)	i	1-br-2-nb_Pesticides	----------ISTD----------											
2)	s	2,4,5,6-Tetra		1.107	1.059	1.069	1.006	0.955	0.936	0.950	0.945	0.931	0.995	6.71
3)	t	Hexachloroben		1.330	1.269	1.253	1.177	1.094	1.016	1.020	1.016	1.011	*L	0.999
9)														
4)	t	alpha-BHC		1.366	1.333	1.350	1.295	1.295	1.395	1.457	1.492	1.513	1.388	5.89
5)	t	gamma-BHC (li	1.406	1.352	1.302	1.319	1.254	1.225	1.273	1.319	1.344	1.359	1.315	4.10
6)	t	beta-BHC		0.763	0.706	0.715	0.676	0.619	0.554	0.555	0.551	0.553	*L	0.999
8)														
7)	t	delta-BHC		1.351	1.290	1.295	1.230	1.214	1.284	1.339	1.375	1.403	1.309	4.86
8)	t	Heptachlor		1.543	1.436	1.437	1.354	1.289	1.272	1.301	1.298	1.277	1.356	7.00
9)	t	Aldrin		1.313	1.249	1.261	1.195	1.162	1.176	1.220	1.234	1.232	1.227	3.77
10)	t	Alachlor			0.219	0.224	0.214	0.206	0.171	0.160	0.147		*L	0.995
6)														
11)	t	Chlorpyrifos			0.897	0.891	0.837	0.764	0.617	0.593	0.559		*L	0.997
6)														
12)	t	Heptachlor Ep		1.442	1.342	1.327	1.254	1.183	1.120	1.149	1.147	1.144	*L	0.999
9)														
13)	t	gamma-Chlorda		1.235	1.197	1.189	1.120	1.061	1.001	1.033	1.046	1.062	1.105	7.58
14)	t	alpha-Chlorda		1.429	1.327	1.319	1.241	1.177	1.110	1.139	1.145	1.159	*L	0.999
8)														
15)	t	4,4'-DDE		1.179	1.137	1.154	1.092	1.076	1.080	1.128	1.141	1.156	1.127	3.25
16)	t	Endosulfan I		1.273	1.209	1.217	1.148	1.089	1.035	1.059	1.055	1.053	1.127	7.80
17)	t	Dieldrin		1.246	1.165	1.164	1.105	1.070	1.056	1.100	1.113	1.124	1.127	5.14
18)	t	Endrin		1.240	1.164	1.168	1.092	1.075	1.067	1.110	1.118	1.132	1.130	4.83
19)	t	4,4'-DDD		0.948	0.907	0.919	0.867	0.857	0.846	0.885	0.903	0.937	0.897	3.97
20)	t	Endosulfan II		1.137	1.115	1.106	1.042	0.995	0.933	0.955	0.949	0.927	1.018	8.27
21)	t	4,4'-DDT		1.212	1.133	1.093	1.026	0.993	0.969	1.002	1.014	1.038	*L	0.999
6)														
22)	t	Endrin Aldehyde			0.926	0.939	0.871	0.845	0.775	0.802	0.808	0.813	*L	0.999
8)														
23)	t	Methoxychlor		0.741	0.714	0.680	0.641	0.597	0.512	0.512	0.504		*L	0.999
2)														
24)	t	Mirex			1.102	1.068	0.993	0.910	0.743	0.741	0.724		*L	0.999
3)														
25)	t	Endosulfan Su		1.152	1.092	1.093	1.021	0.972	0.885	0.902	0.906	0.921	0.994	10.02
26)	t	Endrin Ketone		1.180	1.155	1.152	1.080	1.055	0.979	0.995	1.002	1.015	1.068	7.24

Initial Calibration Summary
Form 6
Pesticides

Client	**: Alpha Geoscience**	**Lab Number**	**: L2410579**
Project Name	**: HUNTINGTON READY MIX**	**Project Number**	**: 20116**
Instrument ID	**: PEST11**	**Ical Ref**	**: ICAL20697**
Calibration dates	**: 12/19/23 13:48 12/19/23 17:57**		

Signal #2 Calibration Files

1 =11231219i-03.d 2 =11231219i-04.d 3 =11231219i-22.d 4 =11231219i-15.d 5 =11231219i-16.d
7 =11231219i-17.d 8 =11231219i-23.d 9 =11231219i-24.d 10 =11231219i-20.d 11 =11231219i-12.d

		Compound	1	2	3	4	5	7	8	9	10	11	Avg		%RSD
27)	s	Decachlorobip	1.051	1.036	0.979	0.911	0.774	0.778	0.761	0.753			*L		0.999
7)															
28)	i	1-br-2-nb_Chlordane	----------ISTD----------												
29)	l1	chlordane-1	0.048	0.046	0.040	0.035	0.036	0.033	0.034				*L		0.999
4)															
30)	l1	chlordane-3	0.058	0.055	0.048	0.040	0.039	0.035	0.035				*L		0.996
8)															
31)	l1	chlordane-4	0.165	0.161	0.139	0.131	0.136	0.127	0.130				*L		0.999
6)															
32)	l1	chlordane-5	0.134	0.128	0.112	0.103	0.107	0.099	0.102				*L		0.999
5)															
33)	i	1-br-2-nb_Toxaphene	----------ISTD----------												
34)	l2	toxaphene-2	0.020					0.022	0.023				0.022		7.67
35)	l2	toxaphene-3	0.033					0.033	0.034				0.033		1.63
36)	l2	toxaphene-4	0.036					0.039	0.040				0.038		4.98
37)	l2	toxaphene-5	0.036					0.036	0.037				0.036		1.03

Initial Calibration Summary
Form 6
Pesticides

Client	**: Alpha Geoscience**	**Lab Number**	**: L2410579**
Project Name	**: HUNTINGTON READY MIX**	**Project Number**	**: 20116**
Instrument ID	**: PEST15**	**Ical Ref**	**: ICAL20776**
Calibration dates	**: 01/08/24 15:00 01/08/24 19:09**		

Calibration Files

1 =15240108i-03.D 2 =15240108i-04.D 3 =15240108i-22.D 4 =15240108i-15.D 5 =15240108i-16.D

7 =15240108i-08.D 8 =15240108i-09.D 9 =15240108i-24.D 10 =15240108i-11.D 11 =15240108i-12.D

		Compound	1	2	3	4	5	7	8	9	10	11	Avg	%RSD
1)	i	1-br-2-nb_Pesticides	ISTD											
2)	s	2,4,5,6-Tetrachloro-m-xylene	1.188	1.142	1.160	1.108	1.061	1.028	1.001	0.953	0.891		1.059	9.43
3)		Hexachlorobenzene			1.299	1.306	1.248	1.159	1.088	1.045	1.015	0.948	*L	0.997
9)														
4)		alpha-BHC			1.377	1.338	1.395	1.350	1.351	1.426	1.405	1.390	1.318	1.372	2.56
5)		gamma-BHC (li	1.410	1.358	1.301	1.334	1.293	1.267	1.307	1.279	1.259	1.189	1.300	4.61
6)		beta-BHC				0.714	0.714	0.683	0.626	0.588	0.572	0.561	0.528	*L	0.998
6)														
7)		delta-BHC			1.365	1.268	1.305	1.270	1.255	1.317	1.303	1.294	1.231	1.290	3.05
8)		Heptachlor			1.460	1.368	1.395	1.352	1.273	1.271	1.227	1.179	1.069	1.288	9.33
9)		Aldrin			1.250	1.208	1.242	1.190	1.163	1.201	1.178	1.141	1.042	1.180	5.28
10)		Alachlor					0.232	0.228	0.209	0.189	0.175	0.163	0.144	*L	0.991
8)														
11)		Chlorpyrifos					0.773	0.723	0.646	0.567	0.528	0.491	0.437	*L	0.992
8)														
12)		Heptachlor Ep			1.318	1.264	1.285	1.220	1.160	1.137	1.109	1.066	0.968	1.170	9.72
13)		gamma-Chlorda			1.216	1.138	1.160	1.089	1.031	1.028	1.017	0.999	0.926	1.067	8.53
14)		alpha-Chlorda			1.447	1.287	1.331	1.275	1.187	1.167	1.141	1.114	1.031	1.220	10.40
15)		4,4'-DDE			1.189	1.135	1.194	1.136	1.118	1.164	1.146	1.116	1.020	1.136	4.53
16)		Endosulfan I			1.254	1.162	1.200	1.144	1.087	1.079	1.052	1.010	0.925	1.101	9.13
17)		Dieldrin	1.237	1.178	1.198	1.149	1.104	1.138	1.121	1.095	1.007		1.136	5.86
18)		Endrin	1.262	1.207	1.247	1.184	1.146	1.170	1.148	1.114	1.022		1.167	6.19
19)		4,4'-DDD	1.316	1.087	1.054	0.987	0.936	0.960	0.945	0.928	0.856		1.008	13.36
20)		Endosulfan II	1.145	1.104	1.131	1.077	1.022	1.018	0.991	0.948	0.843		1.031	9.34
21)		4,4'-DDT	1.986	1.514	1.361	1.180	1.100	1.060	1.055	1.013	0.952		*L	0.998
4)														
22)		Endrin Aldehyde	0.994	0.921	0.946	0.899	0.852	0.842	0.826	0.804	0.741		*L	0.997
5)														
23)		Methoxychlor			0.699	0.705	0.675	0.627	0.583	0.550	0.521	0.469	0.603	14.44
24)		Mirex			1.126	1.142	1.085	0.987	0.897	0.851	0.823	0.758	0.959	15.39
25)		Endosulfan Su	1.114	1.069	1.092	1.057	0.987	0.958	0.927	0.892	0.823		0.991	10.03
26)		Endrin Ketone	1.271	1.208	1.238	1.199	1.139	1.118	1.068	1.020	0.925		1.132	9.91
27)	s	Decachlorobip			1.191	1.219	1.165	1.068	0.984	0.926	0.881	0.805	1.030	15.01
28)	i	1-br-2-nb_Chlordane	ISTD											
29)	l1	chlordane-1			0.000	0.000	0.000	0.000	0.000	0.000	2.707		*L E5	0.996
5)														

Initial Calibration Summary
Form 6
Pesticides

Client	**: Alpha Geoscience**	**Lab Number**	**: L2410579**
Project Name	**: HUNTINGTON READY MIX**	**Project Number**	**: 20116**
Instrument ID	**: PEST15**	**Ical Ref**	**: ICAL20776**
Calibration dates	**: 01/08/24 15:00 01/08/24 19:09**		

Calibration Files

1 =15240108i-03.D 2 =15240108i-04.D 3 =15240108i-22.D 4 =15240108i-15.D 5 =15240108i-16.D

7 =15240108i-08.D 8 =15240108i-09.D 9 =15240108i-24.D 10 =15240108i-11.D 11 =15240108i-12.D

		Compound	1	2	3	4	5	7	8	9	10	11	Avg		%RSD
30)	l1	chlordane-3	0.000	0.000	0.000	0.000	0.000	0.000	1.735				*L	E5	0.994
9)															
31)	l1	chlordane-4	0.000	0.000	0.000	0.000	0.000	0.000	6.246				*L	E5	0.996
6)															
32)	l1	chlordane-5	0.000	0.000	0.000	0.000	0.000	0.000	9.479				*L	E5	0.996
1)															
33)	i	1-br-2-nb_Toxaphene	----------ISTD----------												
34)	l2	toxaphene-1	0.030					0.045	0.045				*L		1.000
0)															
35)	l2	toxaphene-2	0.027					0.042	0.041				*L		0.999
9)															
36)	l2	toxaphene-4	0.020					0.037	0.037				*L		1.000
0)															
37)	l2	toxaphene-5	0.033					0.043	0.042				*L		0.999
8)															

Initial Calibration Summary
Form 6
Pesticides

Client	**: Alpha Geoscience**	**Lab Number**	**: L2410579**
Project Name	**: HUNTINGTON READY MIX**	**Project Number**	**: 20116**
Instrument ID	**: PEST15**	**Ical Ref**	**: ICAL20776**
Calibration dates	**: 01/08/24 15:00 01/08/24 19:09**		

Signal #2 Calibration Files

1 =15240108i-03.D 2 =15240108i-04.D 3 =15240108i-22.D 4 =15240108i-15.D 5 =15240108i-16.D
7 =15240108i-08.D 8 =15240108i-09.D 9 =15240108i-24.D 10 =15240108i-11.D 11 =15240108i-12.D

		Compound	1	2	3	4	5	7	8	9	10	11	Avg	%RSD
1)	i	1-br-2-nb_Pesticides	ISTD											
2)	s	2,4,5,6-Tetra		1.323	1.221	1.214	1.130	1.055	1.012	1.016	0.988	0.951	1.101	11.55
3)		Hexachloroben			1.384	1.353	1.267	1.145	1.048	1.042	1.011	0.980	*L	0.999
4)														
4)		alpha-BHC		1.473	1.394	1.384	1.316	1.288	1.335	1.366	1.358	1.338	1.361	3.91
5)		gamma-BHC (li	1.517	1.438	1.352	1.333	1.264	1.205	1.208	1.233	1.219	1.197	1.297	8.53
6)		beta-BHC			0.757	0.747	0.693	0.620	0.549	0.549	0.536	0.524	*L	0.999
7)														
7)		delta-BHC		1.476	1.337	1.324	1.255	1.194	1.221	1.254	1.251	1.236	*L	0.999
9)														
8)		Heptachlor		1.505	1.374	1.353	1.276	1.177	1.123	1.135	1.099	1.053	1.233	12.36
9)		Aldrin		1.355	1.250	1.243	1.167	1.086	1.078	1.101	1.088	1.049	1.157	8.96
10)		Alachlor			0.306	0.301	0.275	0.241	0.225	0.214	0.198	*L	0.996	
4)														
11)		Chlorpyrifos			0.786	0.730	0.626	0.514	0.485	0.451	0.421	*L	0.996	
4)														
12)		Heptachlor Ep		1.402	1.285	1.273	1.194	1.091	1.021	1.021	0.997	0.954	*L	0.999
2)														
13)		gamma-Chlorda		1.282	1.171	1.157	1.084	0.977	0.910	0.918	0.913	0.894	1.034	13.87
14)		alpha-Chlorda		1.426	1.307	1.284	1.208	1.094	1.022	1.026	1.011	0.985	*L	0.999
7)														
15)		4,4'-DDE		1.288	1.202	1.190	1.120	1.047	1.045	1.065	1.055	1.021	1.115	8.25
16)		Endosulfan I		1.302	1.196	1.190	1.121	1.017	0.955	0.957	0.934	0.897	*L	0.999
3)														
17)		Dieldrin		1.257	1.176	1.165	1.094	1.010	0.983	0.995	0.979	0.947	1.067	10.26
18)		Endrin		1.365	1.204	1.192	1.155	1.040	0.991	0.993	0.964	0.923	*L	0.999
1)														
19)		4,4'-DDD		1.327	1.072	1.012	0.929	0.849	0.816	0.826	0.816	0.796	*L	0.999
8)														
20)		Endosulfan II		1.174	1.062	1.076	1.022	0.930	0.873	0.871	0.839	0.787	*L	0.998
2)														
21)		4,4'-DDT		2.148	1.490	1.278	1.116	0.974	0.899	0.895	0.874	0.849	*L	0.999
7)														
22)		Endrin Aldehyde		0.984	0.917	0.910	0.859	0.775	0.728	0.730	0.717	0.693	*L	0.999
5)														
23)		Methoxychlor			0.673	0.667	0.627	0.545	0.469	0.452	0.432	0.411	*L	0.998

Initial Calibration Summary
Form 6
Pesticides

Client	**: Alpha Geoscience**	**Lab Number**	**: L2410579**
Project Name	**: HUNTINGTON READY MIX**	**Project Number**	**: 20116**
Instrument ID	**: PEST15**	**Ical Ref**	**: ICAL20776**
Calibration dates	**: 01/08/24 15:00 01/08/24 19:09**		

Signal #2 Calibration Files

1 =15240108i-03.D 2 =15240108i-04.D 3 =15240108i-22.D 4 =15240108i-15.D 5 =15240108i-16.D
7 =15240108i-08.D 8 =15240108i-09.D 9 =15240108i-24.D 10 =15240108i-11.D 11 =15240108i-12.D

		Compound	1	2	3	4	5	7	8	9	10	11	Avg	%RSD
2)														
24)		Mirex			1.051	1.042	0.970	0.839	0.714	0.688	0.663	0.639	*L	0.998
8)														
25)		Endosulfan Su		1.140	1.050	1.032	0.968	0.872	0.802	0.796	0.773	0.746	*L	0.999
2)														
26)		Endrin Ketone		1.265	1.161	1.156	1.086	0.997	0.934	0.922	0.887	0.845	1.028	14.11
27)	s	Decachlorobip			1.133	1.113	1.036	0.903	0.785	0.755	0.723	0.697	*L	0.998
7)														
28)	i	1-br-2-nb_Chlordane	----------ISTD----------											
29)	l1	chlordane-1			0.000	0.000	0.000	0.000	0.000	0.000	1.707		*L E5	0.998
1)														
30)	l1	chlordane-3			0.000	0.000	0.000	0.000	0.000	0.000	1.025		*L E5	0.995
5)														
31)	l1	chlordane-4			0.000	0.000	0.000	0.000	0.000	0.000	3.566		*L E5	0.998
2)														
32)	l1	chlordane-5			0.000	0.000	0.000	0.000	0.000	0.000	2.864		*L E5	0.998
3)														
33)	i	1-br-2-nb_Toxaphene	----------ISTD----------											
34)	l2	toxaphene-1			0.013				0.021	0.021			*L	1.000
0)														
35)	l2	toxaphene-2			0.025				0.031	0.031			*L	1.000
0)														
36)	l2	toxaphene-4			0.028				0.037	0.037			*L	1.000
0)														
37)	l2	toxaphene-5			0.028				0.033	0.033			*L	1.000
0)														

Response Factor Report PEST 20

Method Path : I:\PEST\Pest20\2023\231215ical\
Method File : pest20_2023_12_15_ugL_ICAL.m
Title : pest
Last Update : Mon Dec 18 12:47:33 2023
Response Via : Initial Calibration

Calibration Files
1 =20231215i-03.D 2 =20231215i-04.D 3 =20231215i-22.D 4 =20231215i-15.D 5 =20231215i-16.D
7 =20231215i-17.D 8 =20231215i-23.D 9 =20231215i-24.D 10 =20231215i-20.D 11 =20231215i-12.D

		Compound	1	2	3	4	5	7	8	9	10	11	Avg	%RSD
1)	i	1-br-2-nb_Pesticides	----------ISTD----------											
2)	s	2,4,5,6-Tetra...	1.414	1.284	1.235	1.226	1.108	1.007	0.977	0.984	0.955		1.132	14.50
3)		Hexachloroben...			1.602	1.485	1.405	1.283	1.116	1.069	1.073	1.042	*L	0.999
6														
4)		alpha-BHC			1.524	1.502	1.431	1.388	1.340	1.336	1.335	1.379	1.366	1.400	5.07
5)		gamma-BHC (li...	1.429	1.417	1.426	1.360	1.305	1.240	1.196	1.185	1.218	1.205	1.298	7.85
6)		beta-BHC			0.790	0.751	0.729	0.664	0.565	0.539	0.537	0.523	*L	0.999
4														
7)		delta-BHC			1.437	1.411	1.349	1.303	1.244	1.219	1.214	1.254	1.247	*L	0.999
8														
8)		Heptachlor			1.441	1.433	1.335	1.275	1.172	1.077	1.058	1.059	1.037	*L	0.999
7														
9)		Aldrin			1.396	1.407	1.332	1.293	1.218	1.173	1.160	1.189	1.164	1.259	7.94
10)		Alachlor			0.190	0.208	0.211	0.208	0.207	0.183	0.165	0.159		0.191	10.84
11)		Chlorpyrifos				0.709	0.676	0.642	0.596	0.482	0.449	0.421		*L	0.996
6														
12)		Heptachlor Ep...			1.420	1.391	1.319	1.270	1.162	1.054	1.023	1.034	1.005	*L	0.999
6														
13)		gamma-Chlorda...			1.306	1.295	1.217	1.167	1.073	0.987	0.966	0.983	0.966	1.107	12.85
14)		alpha-Chlorda...			1.514	1.487	1.397	1.338	1.248	1.128	1.098	1.105	1.083	*L	0.999
7														
15)		4,4'-DDE			1.302	1.332	1.267	1.224	1.171	1.133	1.128	1.145	1.115	1.202	6.81
16)		Endosulfan I			1.303	1.318	1.257	1.197	1.119	1.017	0.996	1.001	0.977	*L	0.999
6															

Response Factor Report PEST 20

Method Path : I:\PEST\Pest20\2023\231215ical\
Method File : pest20_2023_12_15_ugL_ICAL.m
Title : pest
Last Update : Mon Dec 18 12:47:33 2023
Response Via : Initial Calibration

Calibration Files
1 =20231215i-03.D 2 =20231215i-04.D 3 =20231215i-22.D 4 =20231215i-15.D 5 =20231215i-16.D
7 =20231215i-17.D 8 =20231215i-23.D 9 =20231215i-24.D 10 =20231215i-20.D 11 =20231215i-12.D

		Compound	1	2	3	4	5	7	8	9	10	11	Avg		%RSD
17)		Dieldrin		1.322	1.284	1.229	1.190	1.124	1.059	1.047	1.061	1.040	1.151		9.46
18)		Endrin		1.270	1.287	1.214	1.160	1.093	1.030	1.013	1.014	0.990	1.119		10.45
19)		4,4'-DDD		0.981	0.999	0.959	0.926	0.884	0.847	0.840	0.844	0.831	0.901		7.34
20)		Endosulfan II		1.184	1.200	1.133	1.083	1.008	0.920	0.895	0.891	0.867	1.020		13.06
21)		4,4'-DDT		0.998	1.030	0.956	0.914	0.874	0.815	0.812	0.801	0.793	0.888		10.18
22)		Endrin Aldehyde			0.996	0.963	0.917	0.849	0.787	0.775	0.759	0.742	*L		0.999
7															
23)		Methoxychlor			0.624	0.590	0.569	0.534	0.464	0.443	0.413	0.392	*L		0.997
0															
24)		Mirex			1.241	1.148	1.092	0.969	0.812	0.766	0.734	0.705	*L		0.998
3															
25)		Endosulfan Su...		1.155	1.162	1.109	1.041	0.961	0.859	0.824	0.813		0.990		14.81
26)		Endrin Ketone		1.245	1.242	1.169	1.117	1.032	0.942	0.915	0.892	0.857	1.046		14.58
27)	s	Decachlorobip...			1.572	1.455	1.378	1.236	1.062	1.003	0.970	0.921	*L		0.998
2															
28)	i	1-br-2-nb_Chlordane	----------ISTD----------												
29)	l1	chlordane-1			0.045	0.046	0.043	0.037	0.037	0.033	0.035		*L		0.998
7															
30)	l1	chlordane-3			0.054	0.058	0.051	0.043	0.042	0.036	0.038		*L		0.996
7															
31)	l1	chlordane-4			0.177	0.178	0.150	0.137	0.139	0.127	0.136		*L		0.999
0															
32)	l1	chlordane-5			0.276	0.276	0.232	0.214	0.215	0.196	0.209		*L		0.998
9															

Method Path : I:\PEST\Pest20\2023\231215ical\
Method File : pest20_2023_12_15_ugL_ICAL.m
Title : pest
Last Update : Mon Dec 18 12:47:33 2023
Response Via : Initial Calibration

Calibration Files
1 =20231215i-03.D 2 =20231215i-04.D 3 =20231215i-22.D 4 =20231215i-15.D 5 =20231215i-16.D
7 =20231215i-17.D 8 =20231215i-23.D 9 =20231215i-24.D 10 =20231215i-20.D 11 =20231215i-12.D

		Compound	1	2	3	4	5	7	8	9	10	11	Avg		%RSD
33)	i	1-br-2-nb_Toxaphene	ISTD												
34)	l2	toxaphene-1			0.042				0.036	0.036				*L	0.9999
35)	l2	toxaphene-2			0.024				0.026	0.027				*L	0.9988
36)	l2	toxaphene-4			0.025				0.020	0.020				*L	0.9988
37)	l2	toxaphene-5			0.041				0.031	0.032				*L	0.9999

Signal #2 Calibration Files
1 =20231215i-03.D 2 =20231215i-04.D 3 =20231215i-22.D 4 =20231215i-15.D 5 =20231215i-16.D
7 =20231215i-17.D 8 =20231215i-23.D 9 =20231215i-24.D 10 =20231215i-20.D 11 =20231215i-12.D

		Compound	1	2	3	4	5	7	8	9	10	11	Avg		%RSD
1)	i	1-br-2-nb_Pesticides	ISTD												
2)	s	2,4,5,6-Tetra...	1.431	1.423	1.348	1.281	1.219	1.108	1.069	1.076	1.031		1.221		12.89
3)		Hexachloroben...			1.655	1.539	1.468	1.336	1.157	1.099	1.099	1.052		*L	0.9992
4)		alpha-BHC	1.563	1.560	1.501	1.447	1.415	1.406	1.392	1.441	1.412		1.460		4.51
5)		gamma-BHC (li...	1.478	1.486	1.491	1.426	1.372	1.316	1.262	1.242	1.274	1.246	1.359		7.65
6)		beta-BHC			0.824	0.794	0.767	0.713	0.616	0.585	0.584	0.564		*L	0.9993
7)		delta-BHC	1.446	1.468	1.402	1.349	1.315	1.287	1.279	1.321	1.301		1.352		5.18
8)		Heptachlor	1.380	1.382	1.325	1.261	1.174	1.074	1.049	1.055	1.027		1.192		12.41
9)		Aldrin	1.391	1.388	1.328	1.283	1.226	1.184	1.166	1.192	1.154		1.257		7.44

Response Factor Report PEST 20

Method Path : I:\PEST\Pest20\2023\231215ical\
Method File : pest20_2023_12_15_ugL_ICAL.m
Title : pest
Last Update : Mon Dec 18 12:47:33 2023
Response Via : Initial Calibration

Calibration Files
1 =20231215i-03.D 2 =20231215i-04.D 3 =20231215i-22.D 4 =20231215i-15.D 5 =20231215i-16.D
7 =20231215i-17.D 8 =20231215i-23.D 9 =20231215i-24.D 10 =20231215i-20.D 11 =20231215i-12.D

	Compound	1	2	3	4	5	7	8	9	10	11	Avg	%RSD
10)	Alachlor		0.189	0.206	0.194	0.194	0.188	0.174	0.159	0.151		0.182	10.42
11)	Chlorpyrifos			0.741	0.724	0.701	0.668	0.552	0.515	0.488		0.627	16.85
12)	Heptachlor Ep...		1.478	1.410	1.351	1.314	1.210	1.113	1.085	1.098	1.062	*L	0.999
6													
13)	gamma-Chlorda...		1.212	1.248	1.190	1.137	1.076	0.986	0.965	0.978	0.955	1.083	10.78
14)	alpha-Chlorda...		1.439	1.424	1.356	1.298	1.216	1.116	1.090	1.098	1.065	*L	0.999
6													
15)	4,4'-DDE		1.289	1.314	1.250	1.190	1.159	1.138	1.129	1.134	1.092	1.188	6.57
16)	Endosulfan I		1.298	1.282	1.236	1.172	1.131	1.044	1.026	1.038	1.001	1.136	10.20
17)	Dieldrin		1.277	1.280	1.220	1.180	1.119	1.072	1.061	1.076	1.048	1.148	8.14
18)	Endrin		1.291	1.275	1.224	1.169	1.116	1.067	1.047	1.058	1.025	1.141	8.93
19)	4,4'-DDD		1.004	1.010	0.969	0.929	0.898	0.866	0.858	0.864	0.839	0.915	7.13
20)	Endosulfan II		1.185	1.183	1.123	1.068	1.018	0.944	0.922	0.918	0.892	1.028	11.33
21)	4,4'-DDT		1.041	1.055	1.007	0.953	0.905	0.856	0.850	0.834	0.817	0.924	10.01
22)	Endrin Aldehyde			0.979	0.956	0.900	0.848	0.812	0.800	0.789	0.768	*L	0.999
7													
23)	Methoxychlor			0.621	0.609	0.588	0.553	0.485	0.465	0.437	0.415	*L	0.997
3													
24)	Mirex			1.232	1.139	1.073	0.965	0.804	0.759	0.731	0.704	*L	0.998
5													
25)	Endosulfan Su...		1.125	1.143	1.078	1.031	0.960	0.873	0.847	0.837		0.987	12.67

Method Path : I:\PEST\Pest20\2023\231215ical\
Method File : pest20_2023_12_15_ugL_ICAL.m
Title : pest
Last Update : Mon Dec 18 12:47:33 2023
Response Via : Initial Calibration

Calibration Files
1 =20231215i-03.D 2 =20231215i-04.D 3 =20231215i-22.D 4 =20231215i-15.D 5 =20231215i-16.D
7 =20231215i-17.D 8 =20231215i-23.D 9 =20231215i-24.D 10 =20231215i-20.D 11 =20231215i-12.D

		Compound	1	2	3	4	5	7	8	9	10	11	Avg		%RSD
26)		Endrin Ketone	1.234	1.241	1.187	1.118	1.052	0.973	0.959	0.933	0.898		1.066		12.50
27)	s	Decachlorobip...			1.469	1.364	1.276	1.159	0.992	0.934	0.892	0.834	*L		0.997 1
28)	i	1-br-2-nb_Chlordane	----------ISTD----------												
29)	l1	chlordane-1			0.045	0.046	0.042	0.037	0.037	0.034	0.035		*L		0.998 7
30)	l1	chlordane-3			0.052	0.055	0.049	0.043	0.041	0.036	0.036		*L		0.996 0
31)	l1	chlordane-4			0.154	0.159	0.137	0.129	0.130	0.118	0.124		*L		0.999 1
32)	l1	chlordane-5			0.129	0.133	0.115	0.108	0.107	0.097	0.101		*L		0.998 9
33)	i	1-br-2-nb_Toxaphene	----------ISTD----------												
34)	l2	toxaphene-1			0.018			0.020	0.021				*L		0.999 8
35)	l2	toxaphene-2			0.032			0.031	0.031				*L		1.000 0
36)	l2	toxaphene-4			0.035			0.035	0.036				*L		0.999 9
37)	l2	toxaphene-5			0.036			0.030	0.032				*L		0.999 4

(#) = Out of Range ### Number of calibration levels exceeded format ###

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest20\2023\231215ical\
Data File : 20231215i-02.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Dec 2023 04:46 pm
Operator : pest20:ejl
Sample : pem20231215-01,42e,,pp 11372 (Sig #1); pem-01,42e,,pp 11372 (Sig #2)
Misc : wg1865714,ical
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 18 12:49:45 2023
Quant Method : I:\PEST\Pest20\2023\231215ical\pest20_2023_12_15_ugL_ICAL.m
Quant Title : pest
QLast Update : Mon Dec 18 12:47:33 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : DEG - DDT/Endrin degradation check

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	1.831	1.992	49209103	45502786	25.000	25.000
	System Monitoring Compounds						
	Target Compounds						
15)	4,4'-DDE	4.540	5.431	212119	709998	0.090M4	0.328 D
18)	Endrin	5.107	5.871	106.4E6	105.4E6	48.300	50.712M4
19)	4,4'-DDD	5.215	5.983	329571	395675	0.186M4	0.238M4
21)	4,4'-DDT	5.499	6.253	158.8E6	157.9E6	90.803	93.854M4
22)	Endrin Aldeh	5.753	6.354	267150	345474	N.D. M4	N.D.
26)	Endrin Keton	6.365	6.995	874967	907777	0.425	0.468
	Sum chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
	Sum toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000
	SemiQuant Compounds - Not Calibrated on this Instrument						
	Sum toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

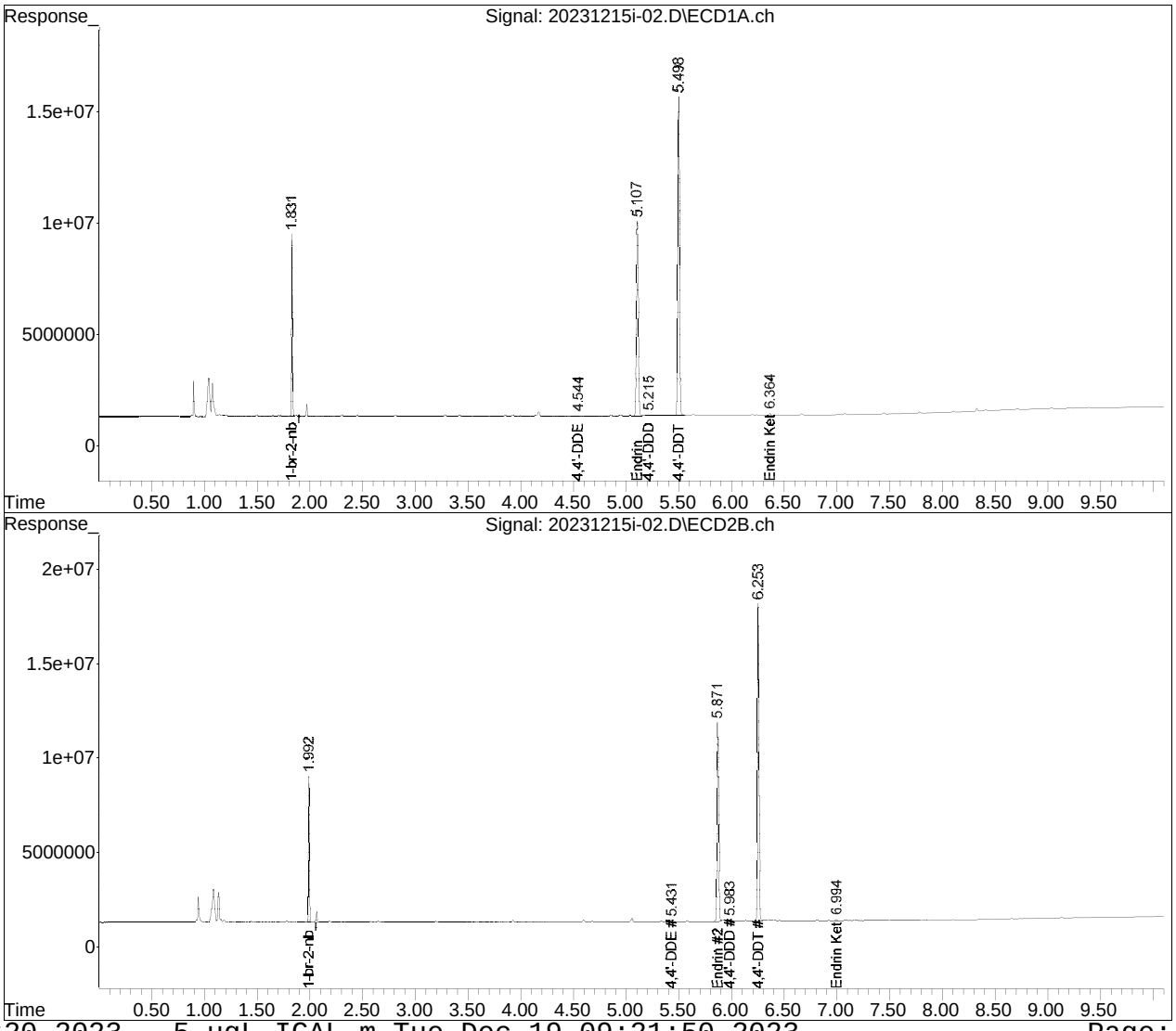
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : DEG - DDT/Endrin degradation checkiewed)

Data Path : I:\PEST\Pest20\2023\231215ical\
Data File : 20231215i-02.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Dec 2023 04:46 pm
Operator : pest20:ejl
Sample : pem20231215-01,42e,,pp 11372 (Sig #1); pem-01,42e,,pp 11372 (Sig #
Misc : wg1865714,ical
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 18 12:49:45 2023
Quant Method : I:\PEST\Pest20\2023\231215ical\pest20_2023_12_15_ugL_ICAL.m
Quant Title : pest
QLast Update : Mon Dec 18 12:47:33 2023
Response via : Initial Calibration
Integrator: ChemStation

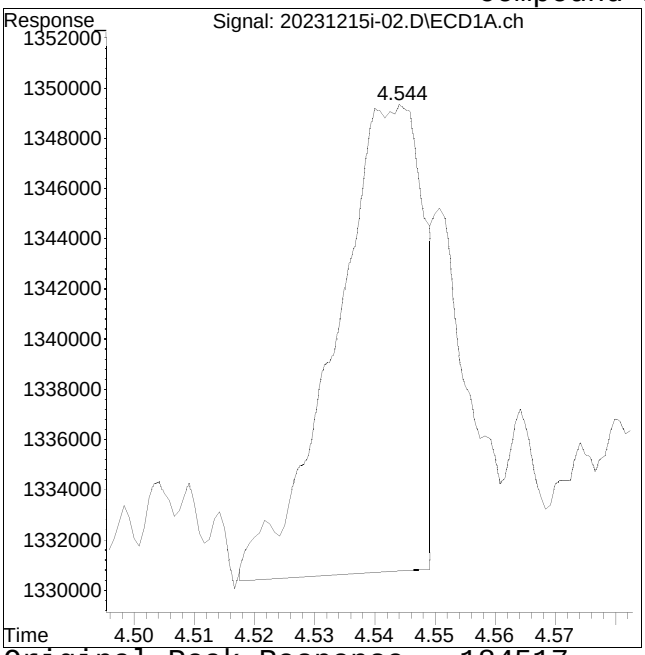
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



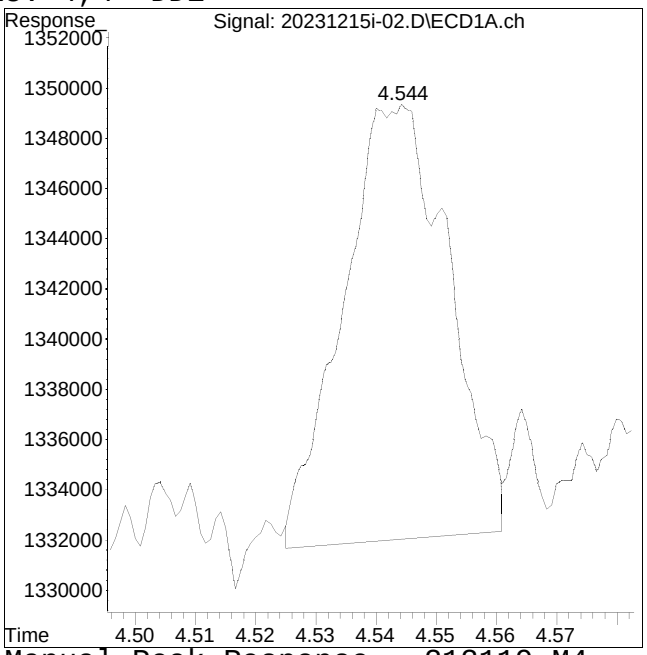
Manual Integration Report

Data Path : I:\PEST\Pest20\2023\231215QMethod : pest20_2023_12_15_ugL_IC
Data File : 20231215i-02.D Operator : pest20:ejl
Date Inj'd : 12/15/2023 4:46 pm Instrument : PEST 20
Sample : pem20231215-01,42e,,pp 113Quant Date : 12/18/2023 12:49 pm

Compound #15: 4,4'-DDE



Original Peak Response = 184517



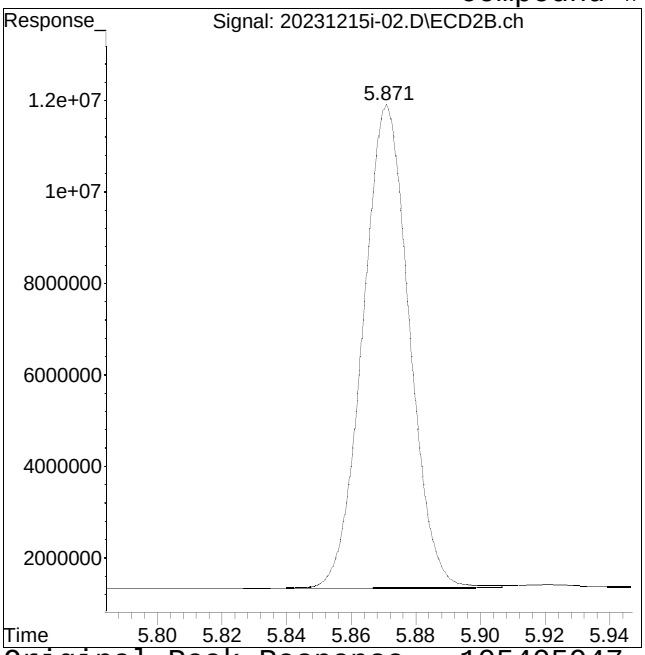
Manual Peak Response = 212119 M4

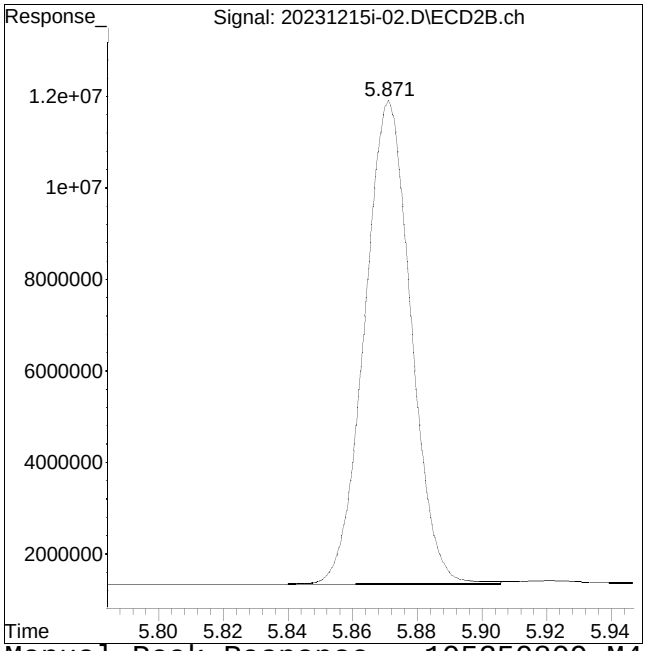
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2023\231215QMethod : pest20_2023_12_15_ugL_IC
Data File : 20231215i-02.D Operator : pest20:ejl
Date Inj'd : 12/15/2023 4:46 pm Instrument : PEST 20
Sample : pem20231215-01,42e,,pp 113Quant Date : 12/18/2023 12:49 pm

Compound #56: Endrin #2



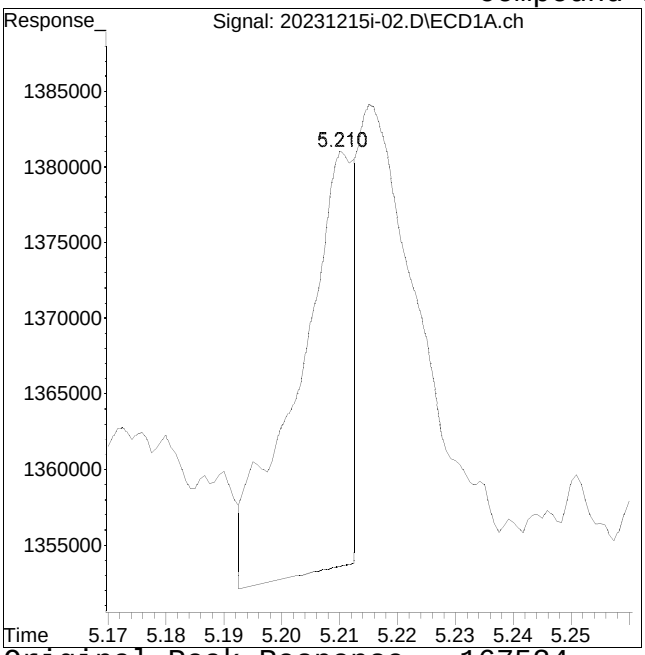


Original Peak Response = 105405947 Manual Peak Response = 105350809 M4
M4 = Poor automated baseline construction.

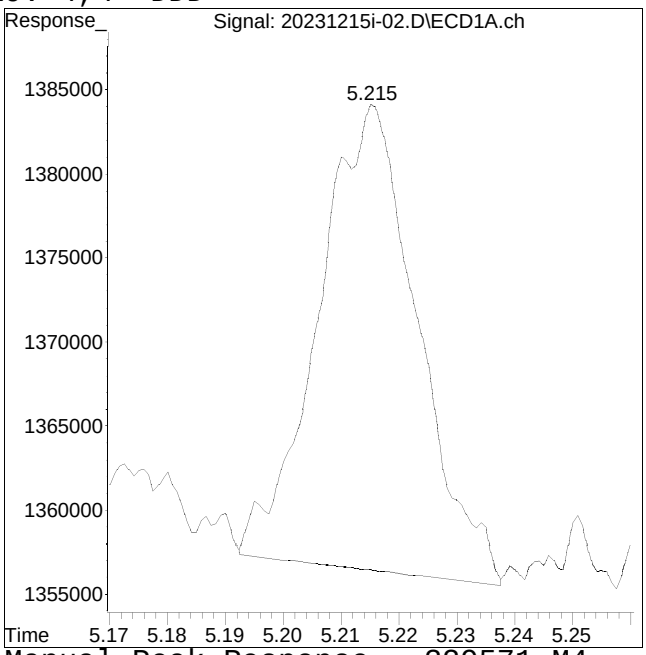
Manual Integration Report

Data Path : I:\PEST\Pest20\2023\231215QMethod : pest20_2023_12_15_ugL_IC
Data File : 20231215i-02.D Operator : pest20:ejl
Date Inj'd : 12/15/2023 4:46 pm Instrument : PEST 20
Sample : pem20231215-01,42e,,pp 113Quant Date : 12/18/2023 12:49 pm

Compound #19: 4,4'-DDD



Original Peak Response = 167524



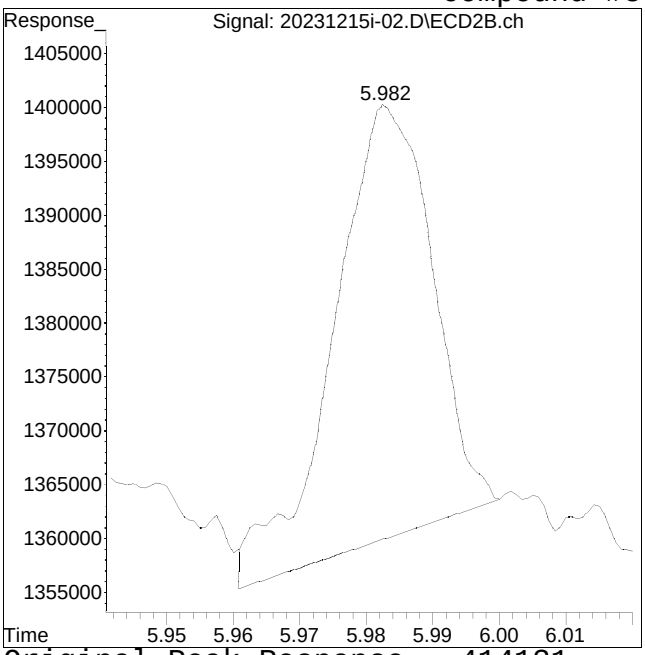
Manual Peak Response = 329571 M4

M4 = Poor automated baseline construction.

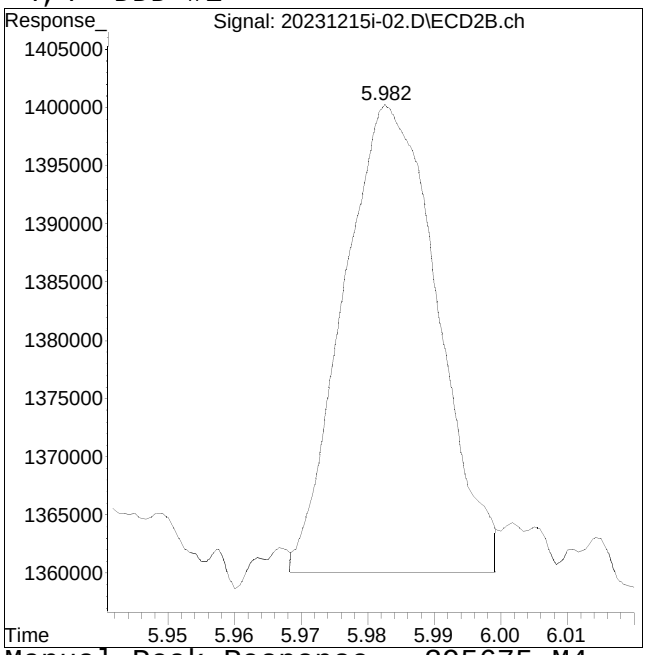
Manual Integration Report

Data Path : I:\PEST\Pest20\2023\231215QMethod : pest20_2023_12_15_ugL_IC
Data File : 20231215i-02.D Operator : pest20:ejl
Date Inj'd : 12/15/2023 4:46 pm Instrument : PEST 20
Sample : pem20231215-01,42e,,pp 113Quant Date : 12/18/2023 12:49 pm

Compound #57: 4,4'-DDD #2



Original Peak Response = 414131



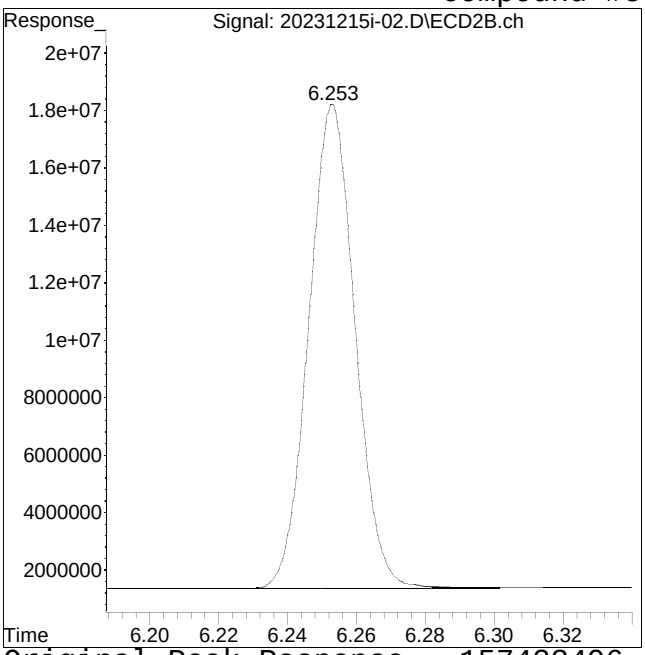
Manual Peak Response = 395675 M4

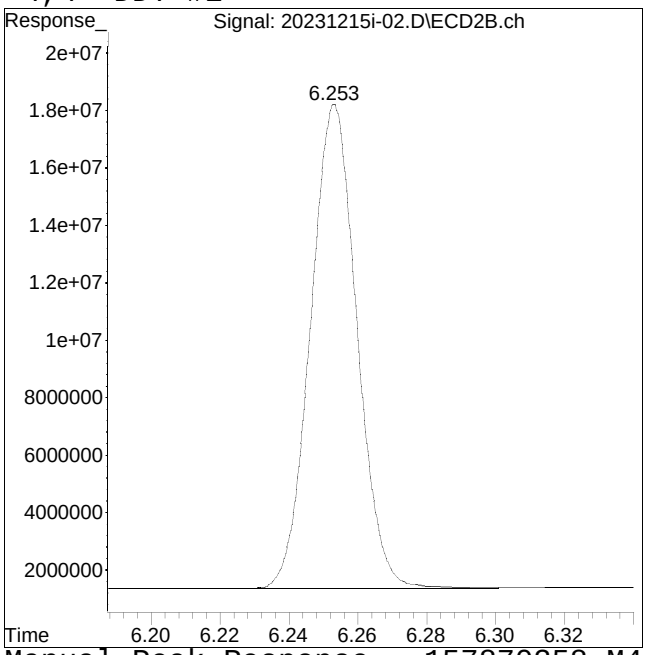
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2023\231215QMethod : pest20_2023_12_15_ugL_IC
Data File : 20231215i-02.D Operator : pest20:ejl
Date Inj'd : 12/15/2023 4:46 pm Instrument : PEST 20
Sample : pem20231215-01,42e,,pp 113Quant Date : 12/18/2023 12:49 pm

Compound #59: 4,4'-DDT #2



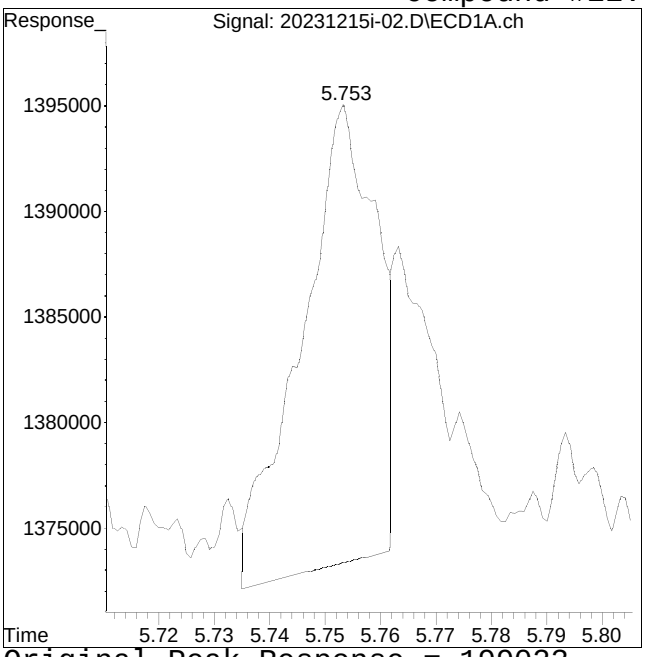


Original Peak Response = 157423496 Manual Peak Response = 157870358 M4
M4 = Poor automated baseline construction.

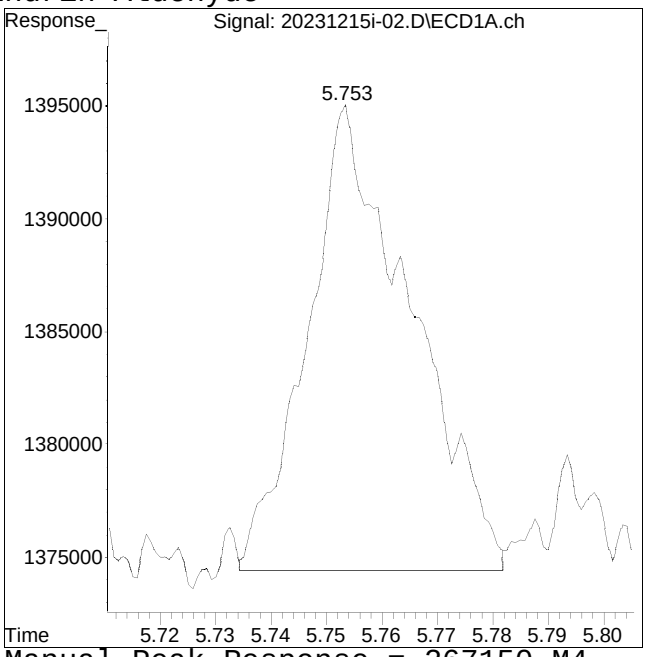
Manual Integration Report

Data Path : I:\PEST\Pest20\2023\231215QMethod : pest20_2023_12_15_ugL_IC
Data File : 20231215i-02.D Operator : pest20:ejl
Date Inj'd : 12/15/2023 4:46 pm Instrument : PEST 20
Sample : pem20231215-01,42e,,pp 113Quant Date : 12/18/2023 12:49 pm

Compound #22: Endrin Aldehyde



Original Peak Response = 199023



Manual Peak Response = 267150 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest20\2023\231215ical\
Data File : 20231215i-03.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Dec 2023 04:59 pm
Operator : pest20:ejl
Sample : il1pest,42e,,pp 11406 L0.0005
Misc : wg1865714,ical (Sig #1); ical (Sig #2)
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 18 12:06:36 2023
Quant Method : I:\PEST\Pest20\2023\231215ical\pest20_2023_12_15_ugL_ICAL.m
Quant Title : pest
QLast Update : Mon Dec 18 12:06:17 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	1.829	1.992	47058296	44192336	25.000	25.000
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
	Target Compounds						
3)	Hexachlorobe	0.000	0.000	0	0	N.D. d	N.D. d
4)	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)	gamma-BHC (l	2.900	3.418	1344457	1306717	0.556	0.549
6)	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8)	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9)	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10)	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11)	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12)	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13)	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14)	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17)	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18)	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22)	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d
23)	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest20\2023\231215ical\
Data File : 20231215i-03.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Dec 2023 04:59 pm
Operator : pest20:ejl
Sample : il1pest,42e,,pp 11406 L0.0005
Misc : wg1865714,ical (Sig #1); ical (Sig #2)
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 18 12:06:36 2023
Quant Method : I:\PEST\Pest20\2023\231215ical\pest20_2023_12_15_ugL_ICAL.m
Quant Title : pest
QLast Update : Mon Dec 18 12:06:17 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
24)	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25)	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26)	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	0.000	0.000	0	0	N.D.	N.D.
30) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

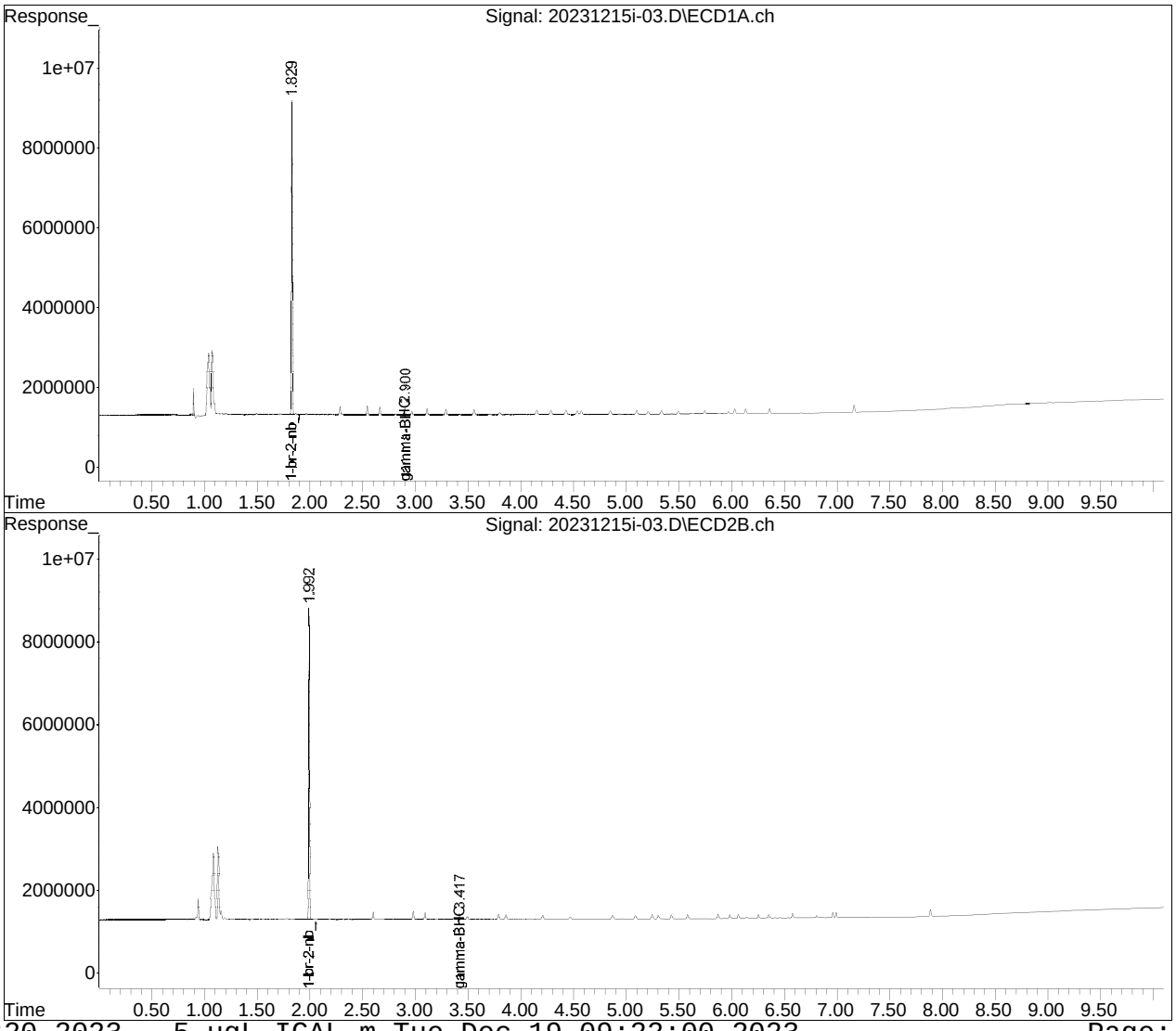
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest20\2023\231215ical\
Data File : 20231215i-03.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Dec 2023 04:59 pm
Operator : pest20:ejl
Sample : il1pest,42e,,pp 11406 L0.0005
Misc : wg1865714,ical (Sig #1); ical (Sig #2)
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 18 12:06:36 2023
Quant Method : I:\PEST\Pest20\2023\231215ical\pest20_2023_12_15_ugL_ICAL.m
Quant Title : pest
QLast Update : Mon Dec 18 12:06:17 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Manual Integration Report

Data Path : I:\PEST\Pest20\2023\231215QMethod : pest20_2023_12_15_ugL_IC
Data File : 20231215i-03.D Operator : pest20:ejl
Date Inj'd : 12/15/2023 4:59 pm Instrument : PEST 20
Sample : il1pest,42e,,pp 11406 L0.0Quant Date : 12/18/2023 12:06 pm

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

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest20\2023\231215ical\
Data File : 20231215i-04.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Dec 2023 05:11 pm
Operator : pest20:ejl
Sample : il2pest,42e,,pp 11405 L0.001
Misc : wg1865714,ical (Sig #1); ical (Sig #2)
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 18 12:06:02 2023
Quant Method : I:\PEST\Pest20\2023\231215ical\pest20_2023_12_15_ugL_ICAL.m
Quant Title : pest
QLast Update : Mon Dec 18 12:01:45 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	1.828	1.992	46192123	43636192	25.000	25.000
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	2.285	2.602	2613463	2498231	1.289M3	1.198
	Spiked Amount 50.000	Range 30 - 150		Recovery =		2.58%#	2.40%#
27) s	Decachlorobi	7.158	7.876	3030366	2653320	1.367	1.363M4
	Spiked Amount 50.000	Range 30 - 150		Recovery =		2.73%#	2.73%#
	Target Compounds						
3)	Hexachlorobe	2.544	2.980	3147832	2957474	1.353	1.303
4)	alpha-BHC	2.664	3.094	2815475	2728647	1.101	1.081
5)	gamma-BHC (l	2.899	3.418	2618224	2593684	1.119	1.118
6)	beta-BHC	2.967	3.494	1459022	1459679	1.239	1.228
7)	delta-BHC	3.111	3.790	2654605	2523755	1.122	1.079
8)	Heptachlor	3.289	3.859	2662253	2408779	1.220M4	1.181
9)	Aldrin	3.557	4.208	2580182	2427294	1.124	1.121
10)	Alachlor	3.703	4.085	351211	329161	0.992M4	1.043M4
11)	Chlorpyrifos	3.800	4.468	1244383	1244711	1.186	1.137
12)	Heptachlor E	4.152	4.871	2624116	2579801	1.227	1.226
13)	gamma-Chlord	4.285	5.087	2413917	2116131	1.208	1.136
14)	alpha-Chlord	4.428	5.245	2797729	2511301	1.226M4	1.191
15)	4,4'-DDE	4.535	5.428	2405188	2250075	1.095	1.096
16)	Endosulfan I	4.573	5.303	2407403	2266127	1.174	1.163
17)	Dieldrin	4.848	5.581	2442307	2229557	1.170	1.128
18)	Endrin	5.099	5.870	2346644	2253016	1.154	1.150
19)	4,4'-DDD	5.206	5.981	1812668	1752171	1.101	1.110
20)	Endosulfan I	5.334	6.062	2187311	2068309	1.184	1.175
21)	4,4'-DDT	5.491	6.252	1843869	1816686	1.141	1.144
22)	Endrin Aldeh	5.745	6.352	1789586	1592496	1.142	1.065

Data Path : I:\PEST\Pest20\2023\231215ical\
Data File : 20231215i-04.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Dec 2023 05:11 pm
Operator : pest20:ejl
Sample : il2pest,42e,,pp 11405 L0.001
Misc : wg1865714,ical (Sig #1); ical (Sig #2)
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 18 12:06:02 2023
Quant Method : I:\PEST\Pest20\2023\231215ical\pest20_2023_12_15_ugL_ICAL.m
Quant Title : pest
QLast Update : Mon Dec 18 12:01:45 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
23)	Methoxychlor	5.969	6.804	1101431	1097010	1.183	1.205M4
24)	Mirex	6.028	6.957	2357533	2167826	1.367	1.342
25)	Endosulfan S	6.131	6.577	2133474	1964354	1.223M4	1.188
26)	Endrin Keton	6.358	6.989	2300790	2153354	1.220	1.180M4
29) l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

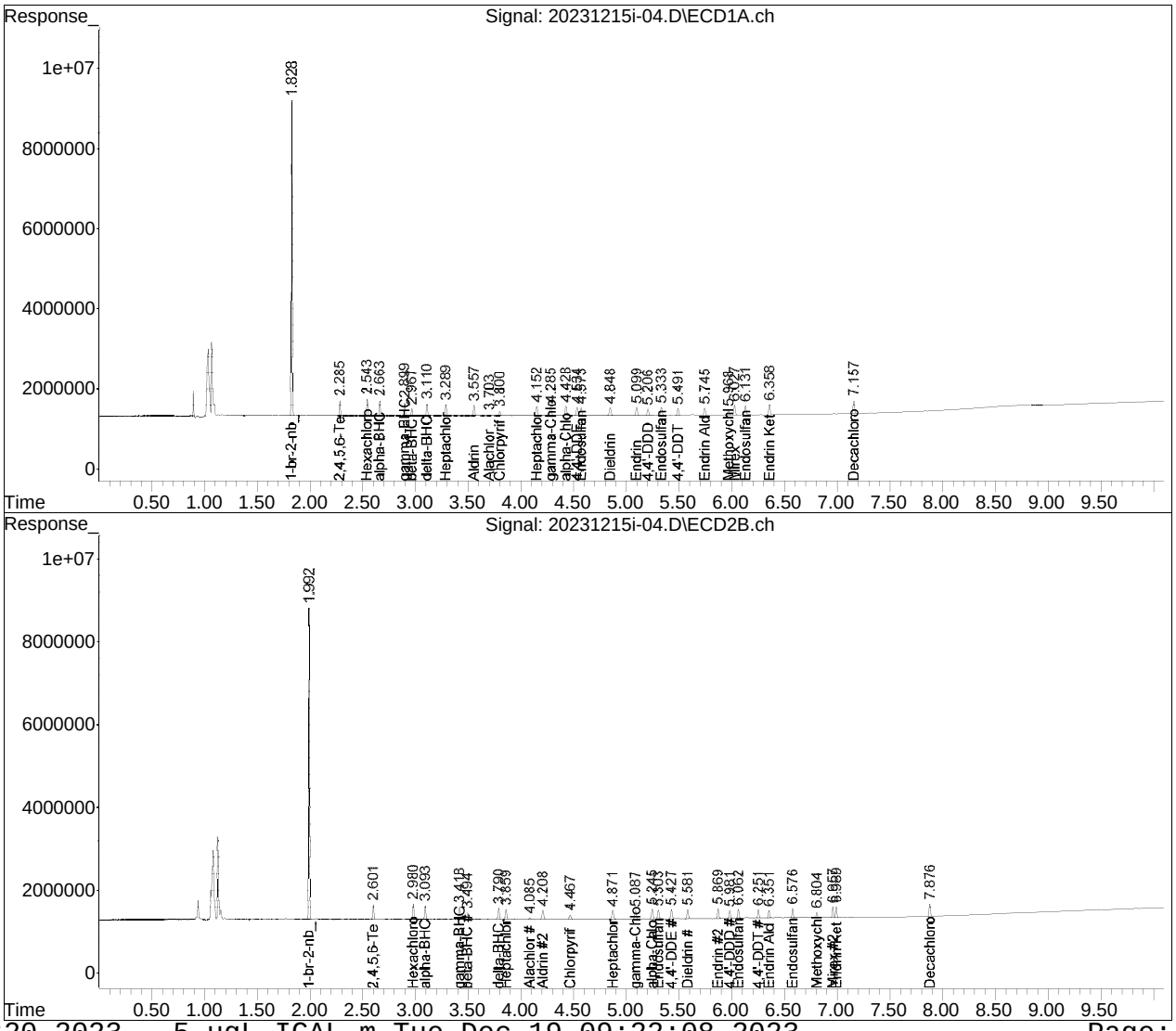
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest20\2023\231215ical\
Data File : 20231215i-04.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Dec 2023 05:11 pm
Operator : pest20:ejl
Sample : il2pest,42e,,pp 11405 L0.001
Misc : wg1865714,ical (Sig #1); ical (Sig #2)
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 18 12:06:02 2023
Quant Method : I:\PEST\Pest20\2023\231215ical\pest20_2023_12_15_ugL_ICAL.m
Quant Title : pest
QLast Update : Mon Dec 18 12:01:45 2023
Response via : Initial Calibration
Integrator: ChemStation

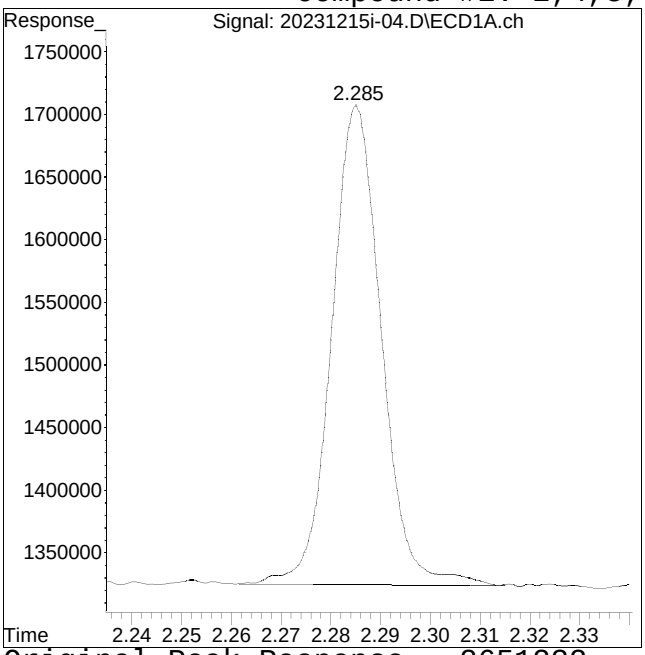
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

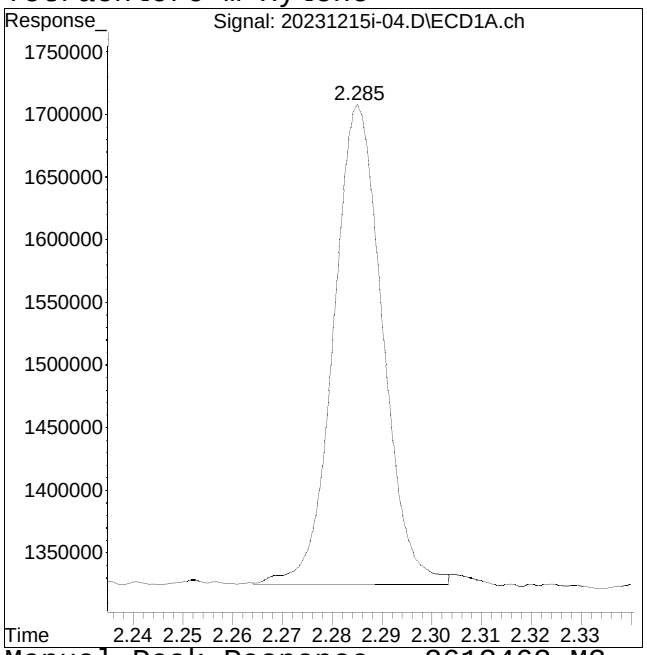


Manual Integration Report

Data Path : I:\PEST\Pest20\2023\231215QMethod : pest20_2023_12_15_ugL_IC
Data File : 20231215i-04.D Operator : pest20:ejl
Date Inj'd : 12/15/2023 5:11 pm Instrument : PEST 20
Sample : il2pest,42e,,pp 11405 L0.0Quant Date : 12/18/2023 12:01 pm

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



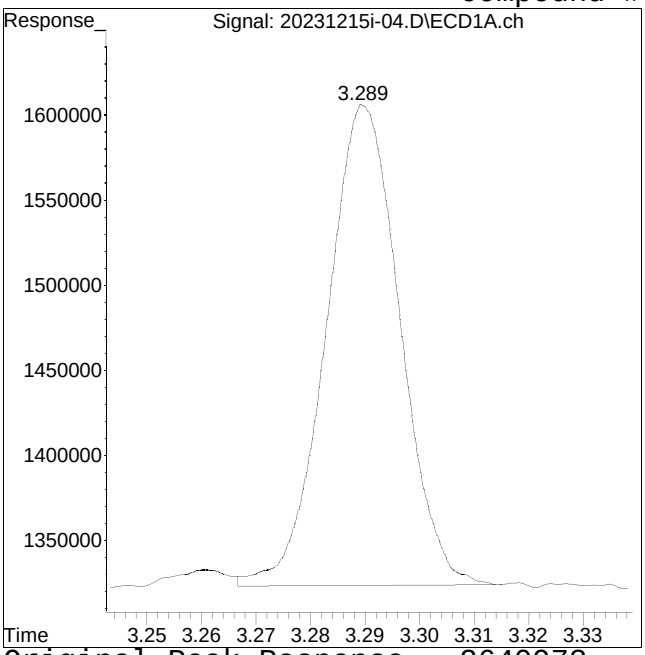


Original Peak Response = 2651232 Manual Peak Response = 2613463 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

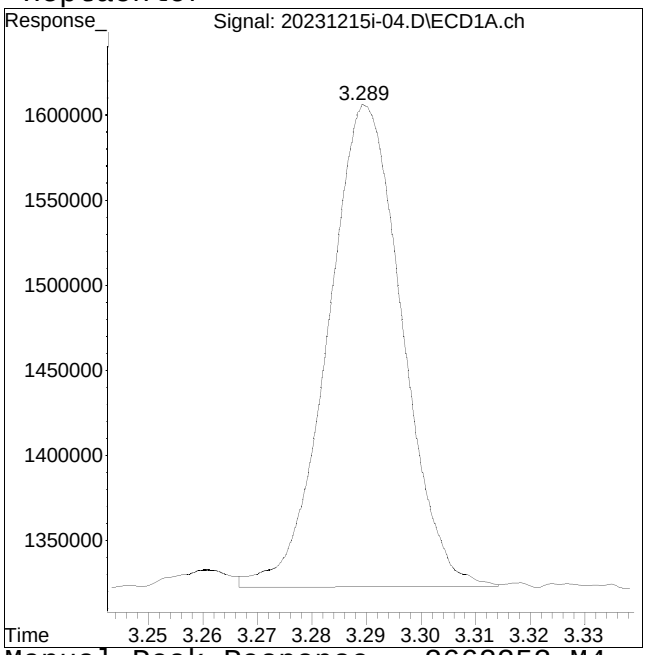
Manual Integration Report

Data Path : I:\PEST\Pest20\2023\231215QMethod : pest20_2023_12_15_ugL_IC
Data File : 20231215i-04.D Operator : pest20:ejl
Date Inj'd : 12/15/2023 5:11 pm Instrument : PEST 20
Sample : il2pest,42e,,pp 11405 L0.0Quant Date : 12/18/2023 12:01 pm

Compound #8: Heptachlor



Original Peak Response = 2640973



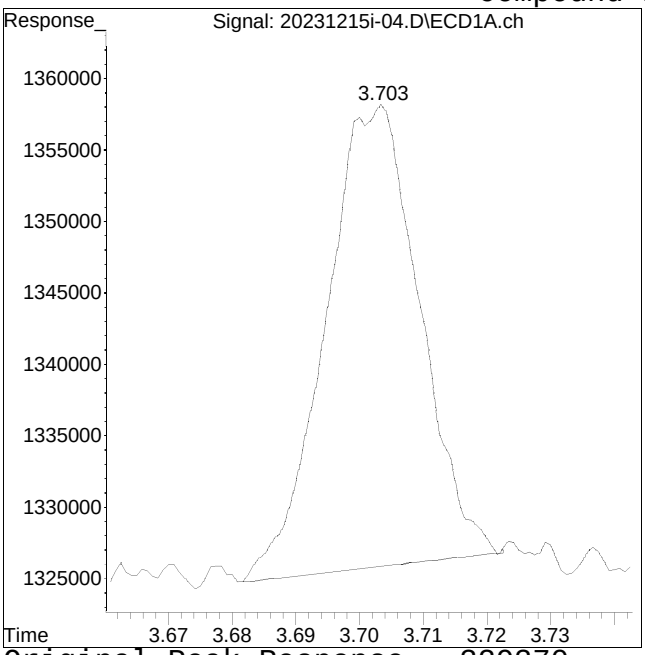
Manual Peak Response = 2662253 M4

M4 = Poor automated baseline construction.

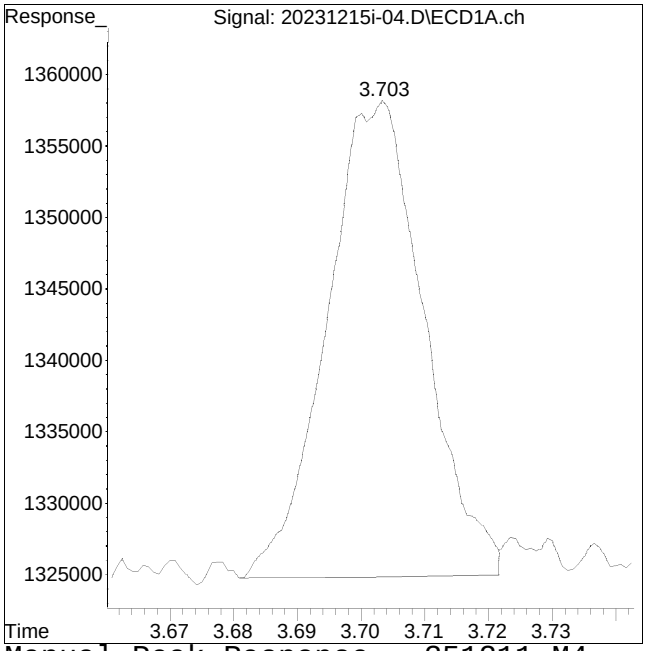
Manual Integration Report

Data Path : I:\PEST\Pest20\2023\231215QMethod : pest20_2023_12_15_ugL_IC
Data File : 20231215i-04.D Operator : pest20:ejl
Date Inj'd : 12/15/2023 5:11 pm Instrument : PEST 20
Sample : il2pest,42e,,pp 11405 L0.0Quant Date : 12/18/2023 12:01 pm

Compound #10: Alachlor



Original Peak Response = 329370



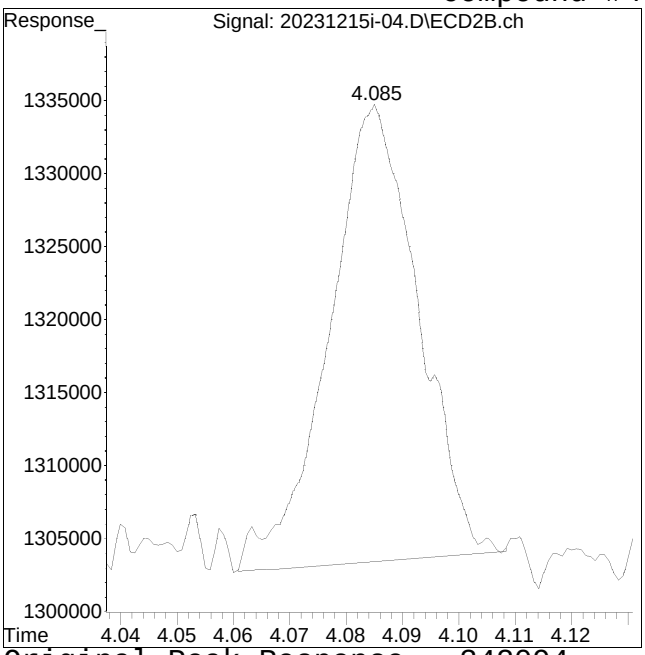
Manual Peak Response = 351211 M4

M4 = Poor automated baseline construction.

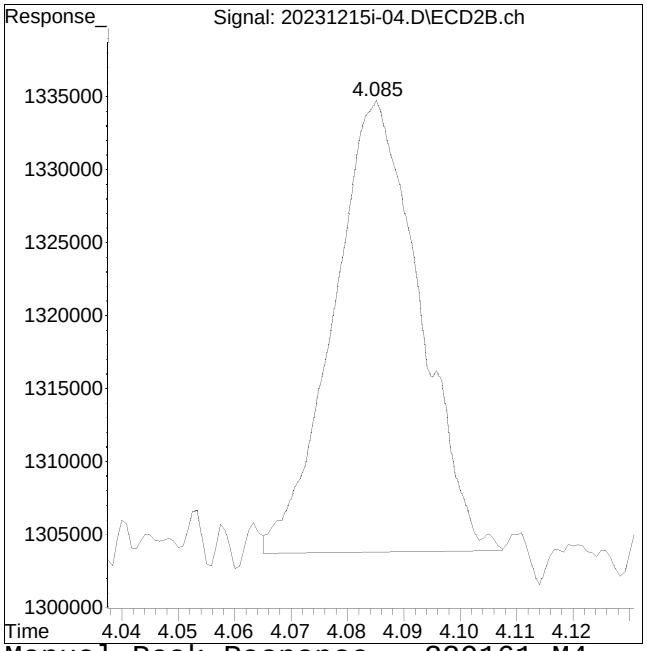
Manual Integration Report

Data Path : I:\PEST\Pest20\2023\231215QMethod : pest20_2023_12_15_ugL_IC
Data File : 20231215i-04.D Operator : pest20:ejl
Date Inj'd : 12/15/2023 5:11 pm Instrument : PEST 20
Sample : il2pest,42e,,pp 11405 L0.0Quant Date : 12/18/2023 12:01 pm

Compound #48: Alachlor #2



Original Peak Response = 342094



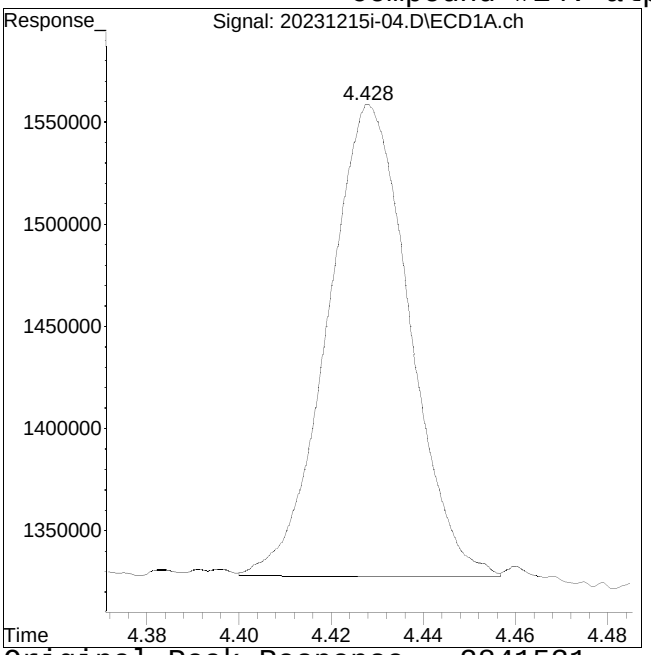
Manual Peak Response = 329161 M4

M4 = Poor automated baseline construction.

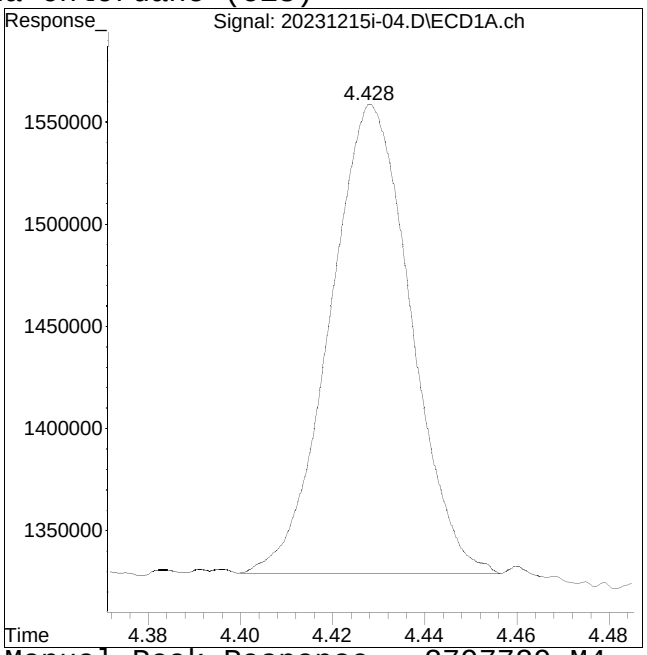
Manual Integration Report

Data Path : I:\PEST\Pest20\2023\231215QMethod : pest20_2023_12_15_ugL_IC
Data File : 20231215i-04.D Operator : pest20:ejl
Date Inj'd : 12/15/2023 5:11 pm Instrument : PEST 20
Sample : il2pest,42e,,pp 11405 L0.0Quant Date : 12/18/2023 12:01 pm

Compound #14: alpha-Chlordane (cis)



Original Peak Response = 2841531



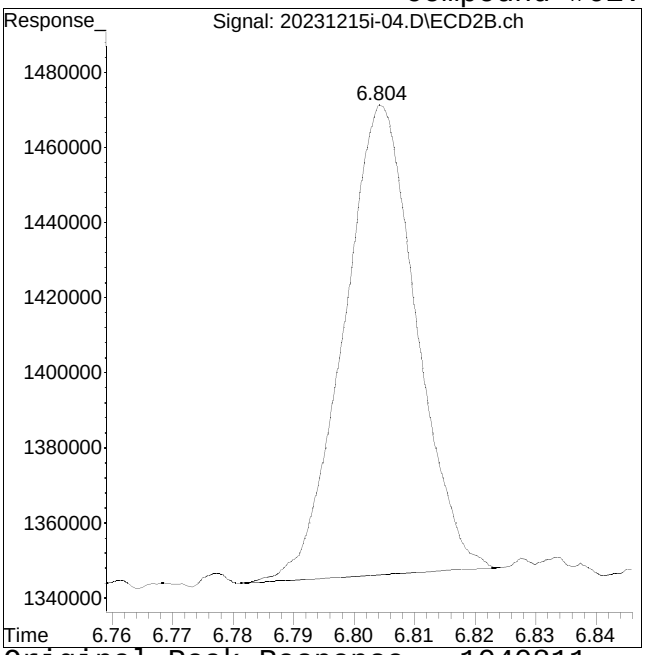
Manual Peak Response = 2797729 M4

M4 = Poor automated baseline construction.

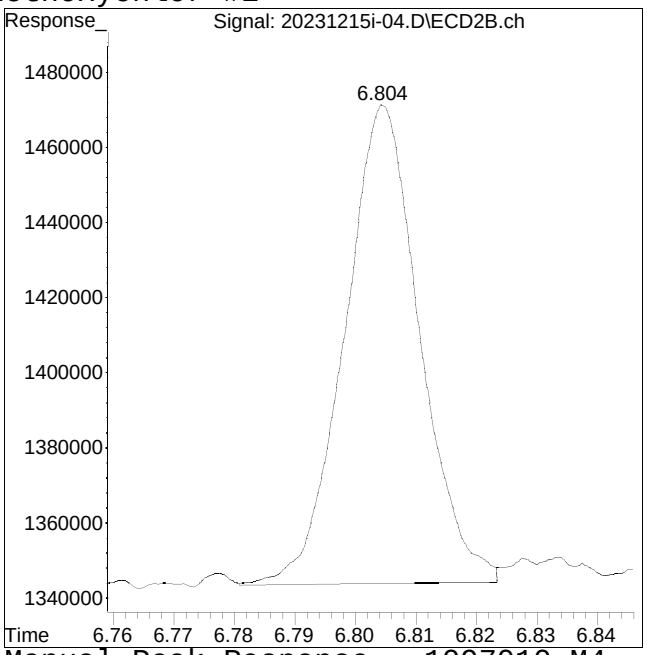
Manual Integration Report

Data Path : I:\PEST\Pest20\2023\231215QMethod : pest20_2023_12_15_ugL_IC
Data File : 20231215i-04.D Operator : pest20:ejl
Date Inj'd : 12/15/2023 5:11 pm Instrument : PEST 20
Sample : il2pest,42e,,pp 11405 L0.0Quant Date : 12/18/2023 12:01 pm

Compound #61: Methoxychlor #2



Original Peak Response = 1040811



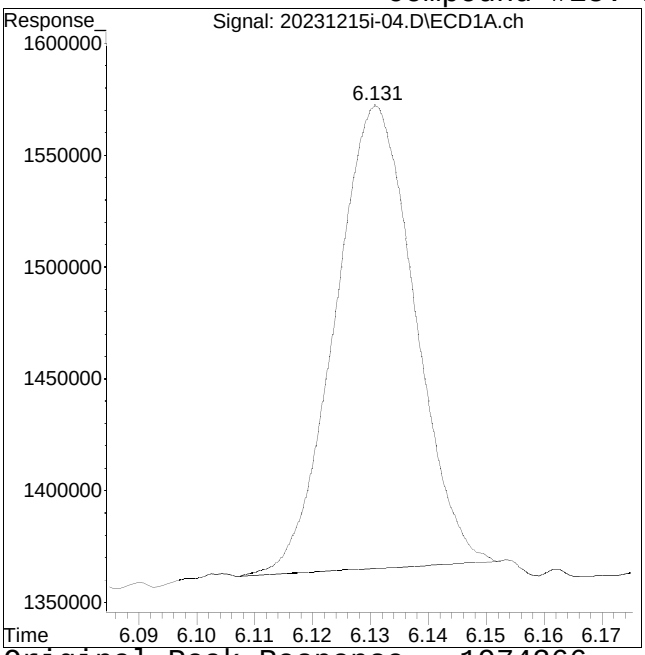
Manual Peak Response = 1097010 M4

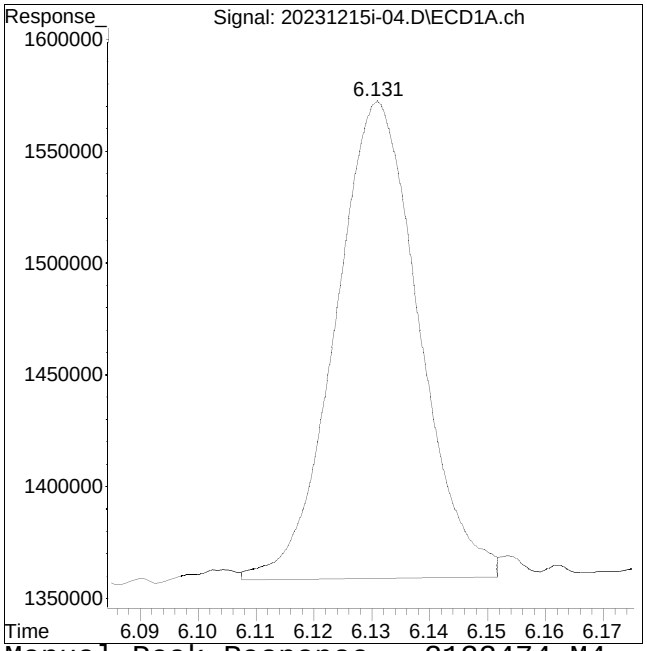
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2023\231215QMethod : pest20_2023_12_15_ugL_IC
Data File : 20231215i-04.D Operator : pest20:ejl
Date Inj'd : 12/15/2023 5:11 pm Instrument : PEST 20
Sample : il2pest,42e,,pp 11405 L0.0Quant Date : 12/18/2023 12:01 pm

Compound #25: Endosulfan Sulfate



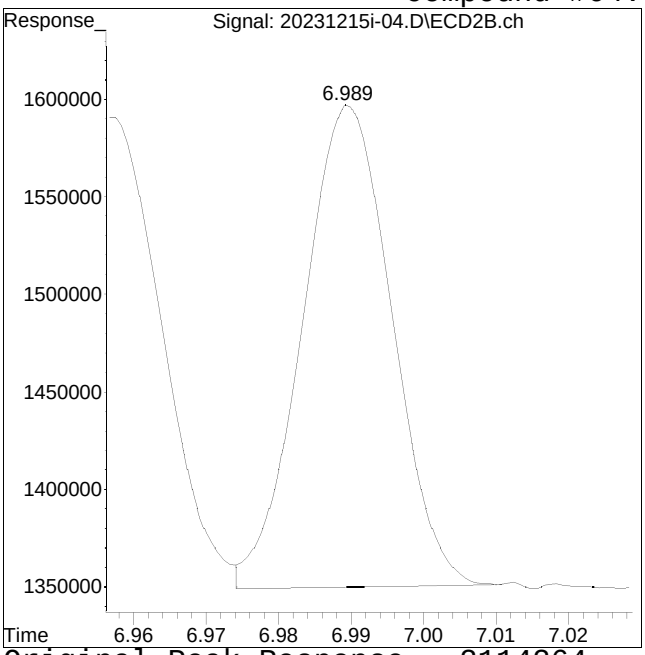


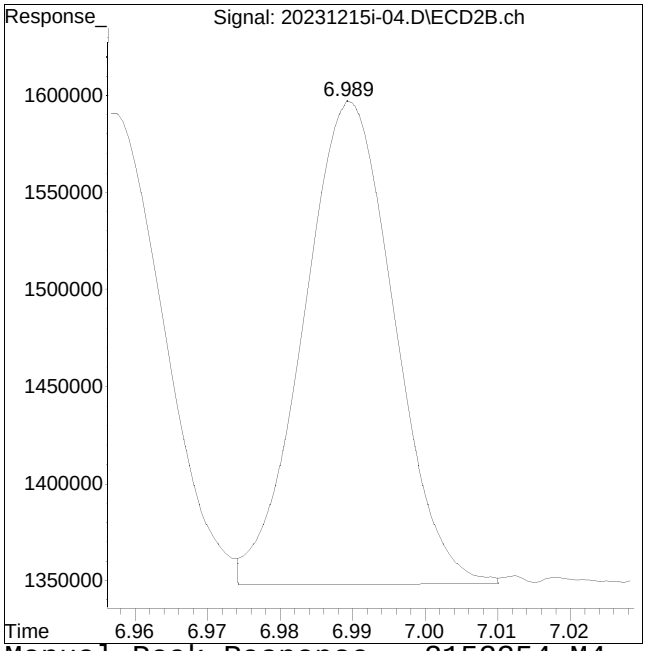
Original Peak Response = 1974366 Manual Peak Response = 2133474 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2023\231215QMethod : pest20_2023_12_15_ugL_IC
Data File : 20231215i-04.D Operator : pest20:ejl
Date Inj'd : 12/15/2023 5:11 pm Instrument : PEST 20
Sample : il2pest,42e,,pp 11405 L0.0Quant Date : 12/18/2023 12:01 pm

Compound #64: Endrin Ketone #2



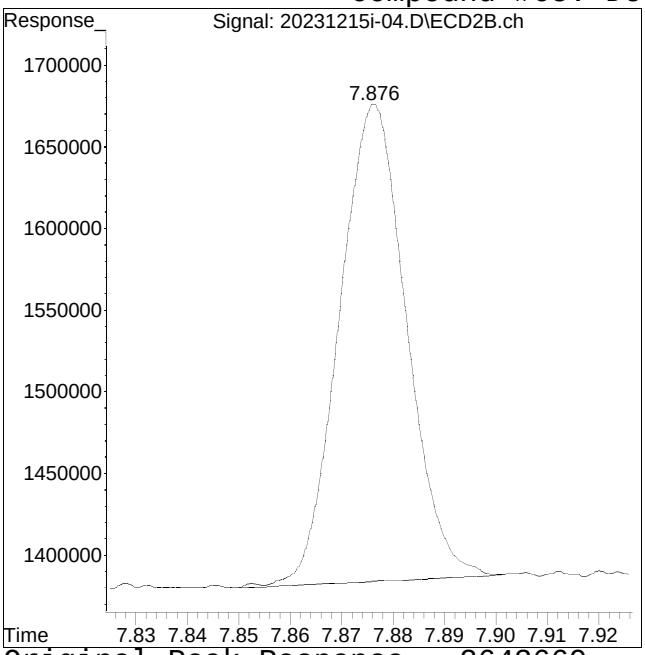


Original Peak Response = 2114264 Manual Peak Response = 2153354 M4
M4 = Poor automated baseline construction.

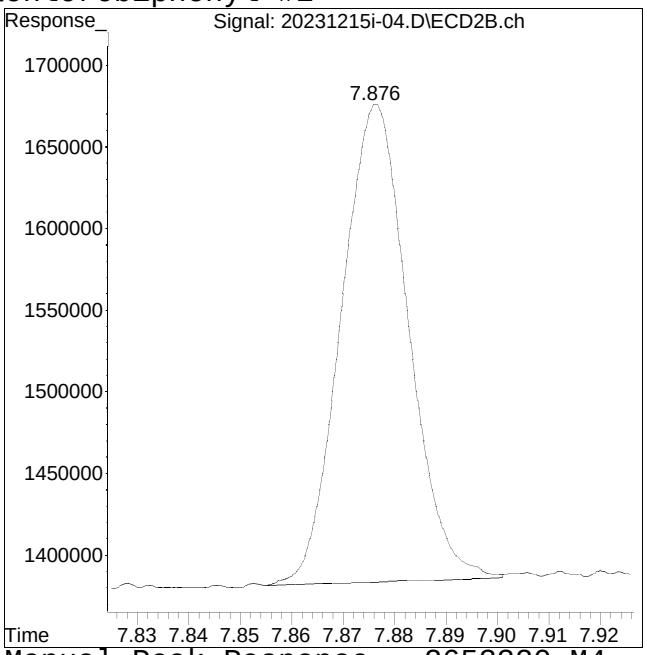
Manual Integration Report

Data Path : I:\PEST\Pest20\2023\231215QMethod : pest20_2023_12_15_ugL_IC
Data File : 20231215i-04.D Operator : pest20:ejl
Date Inj'd : 12/15/2023 5:11 pm Instrument : PEST 20
Sample : il2pest,42e,,pp 11405 L0.0Quant Date : 12/18/2023 12:01 pm

Compound #65: Decachlorobiphenyl #2



Original Peak Response = 2643669



Manual Peak Response = 2653320 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest20\2023\231215ical\
Data File : 20231215i-05.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Dec 2023 05:24 pm
Operator : pest20:ejl
Sample : il3pest,42e,,pp 11404 L0.002
Misc : wg1865714,ical (Sig #1); ical (Sig #2)
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 18 12:01:22 2023
Quant Method : I:\PEST\Pest20\2023\231215ical\pest20_2023_12_15_ugL_ICAL.m
Quant Title : pest
QLast Update : Mon Dec 18 11:57:50 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	1.828	1.992	46589013	44215974	25.000	25.000
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	2.285	2.601	4784134	5032695	2.398	2.449M4
	Spiked Amount 50.000	Range 30 - 150		Recovery =		4.80%#	4.90%#
27) s	Decachlorobi	7.157	7.877	5858312	5196520	2.742	2.760M4
	Spiked Amount 50.000	Range 30 - 150		Recovery =		5.48%#	5.52%#
	Target Compounds						
3)	Hexachlorobe	2.543	2.980	5969200	5854956	2.646	2.648
4)	alpha-BHC	2.663	3.093	5597285	5517665	2.196	2.181
5)	gamma-BHC (l	2.898	3.418	5316191	5274816	2.293	2.284
6)	beta-BHC	2.967	3.494	2945595	2915620	2.568	2.496
7)	delta-BHC	3.110	3.790	5260600	5191120	2.238	2.220
8)	Heptachlor	3.289	3.859	5341631	4889681	2.504M4	2.430
9)	Aldrin	3.556	4.208	5243244	4908425	2.309	2.276
10)	Alachlor	3.702	4.086	775765	729008	2.204M4	2.335
11)	Chlorpyrifos	3.800	4.467	2643050	2621383	2.606	2.438
12)	Heptachlor E	4.151	4.871	5185698	4987232	2.476	2.398
13)	gamma-Chlord	4.284	5.086	4825168	4416071	2.463	2.398M4
14)	alpha-Chlord	4.427	5.246	5541911	5037146	2.479M4	2.420
15)	4,4'-DDE	4.534	5.428	4963594	4646673	2.278	2.273M4
16)	Endosulfan I	4.572	5.304	4913798	4535689	2.440	2.348
17)	Dieldrin	4.848	5.582	4786474	4528414	2.320	2.305M4
18)	Endrin	5.098	5.870	4797681	4508343	2.398	2.315
19)	4,4'-DDD	5.205	5.981	3721767	3570948	2.281M4	2.271M4
20)	Endosulfan I	5.333	6.062	4473255	4185401	2.472	2.406M4
21)	4,4'-DDT	5.490	6.252	3840677	3730637	2.418	2.373
22)	Endrin Aldeh	5.743	6.352	3713125	3462691	2.409M4	2.334M4

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest20\2023\231215ical\
Data File : 20231215i-05.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Dec 2023 05:24 pm
Operator : pest20:ejl
Sample : il3pest,42e,,pp 11404 L0.002
Misc : wg1865714,ical (Sig #1); ical (Sig #2)
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 18 12:01:22 2023
Quant Method : I:\PEST\Pest20\2023\231215ical\pest20_2023_12_15_ugL_ICAL.m
Quant Title : pest
QLast Update : Mon Dec 18 11:57:50 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
23)	Methoxychlor	5.968	6.804	2327345	2197169	2.567	2.449M4
24)	Mirex	6.027	6.958	4625789	4357249	2.791	2.793
25)	Endosulfan S	6.130	6.576	4332391	4042970	2.546M3	2.486M4
26)	Endrin Keton	6.357	6.990	4628917	4389380	2.511	2.440
29) l1	chlordane-1	0.000	0.000	0	0	N.D.	N.D.
30) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

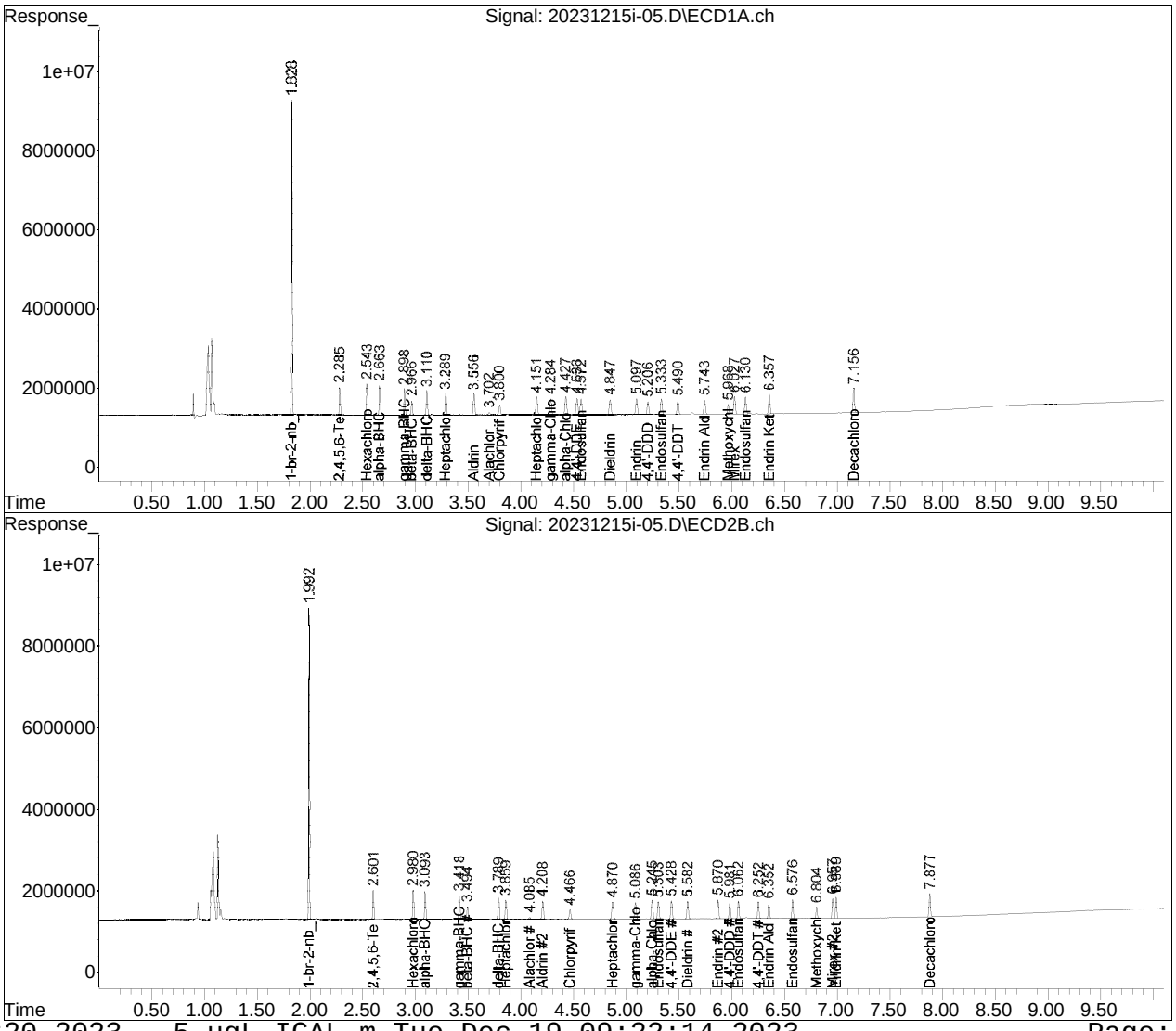
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest20\2023\231215ical\
Data File : 20231215i-05.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Dec 2023 05:24 pm
Operator : pest20:ejl
Sample : il3pest,42e,,pp 11404 L0.002
Misc : wg1865714,ical (Sig #1); ical (Sig #2)
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 18 12:01:22 2023
Quant Method : I:\PEST\Pest20\2023\231215ical\pest20_2023_12_15_ugL_ICAL.m
Quant Title : pest
QLast Update : Mon Dec 18 11:57:50 2023
Response via : Initial Calibration
Integrator: ChemStation

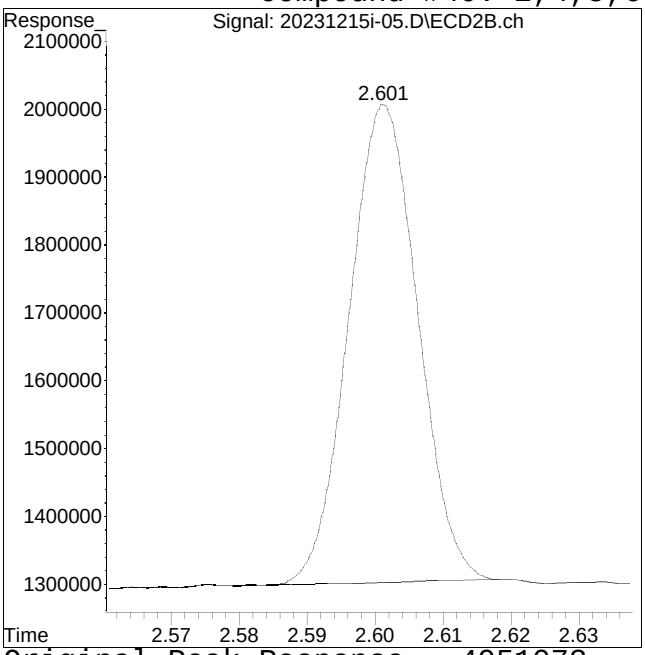
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



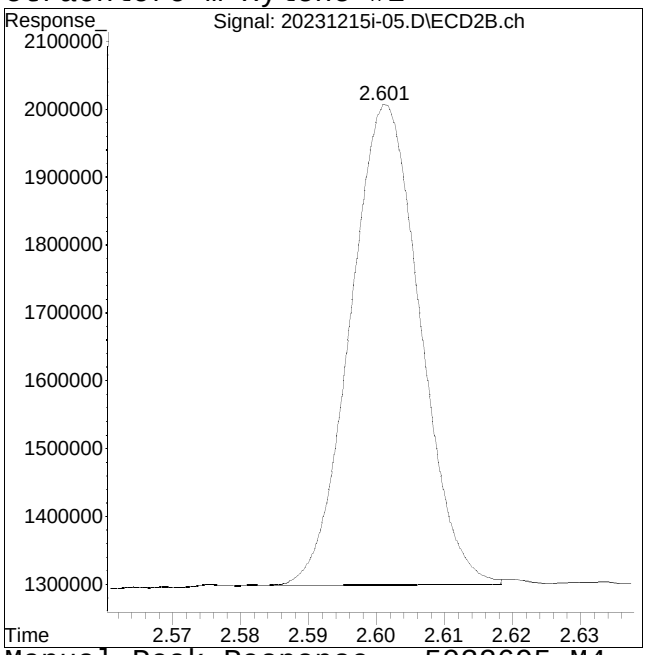
Manual Integration Report

Data Path : I:\PEST\Pest20\2023\231215QMethod : pest20_2023_12_15_ugL_IC
Data File : 20231215i-05.D Operator : pest20:ejl
Date Inj'd : 12/15/2023 5:24 pm Instrument : PEST 20
Sample : il3pest,42e,,pp 11404 L0.0Quant Date : 12/18/2023 11:57 am

Compound #40: 2,4,5,6-Tetrachloro-m-xylene #2



Original Peak Response = 4951073



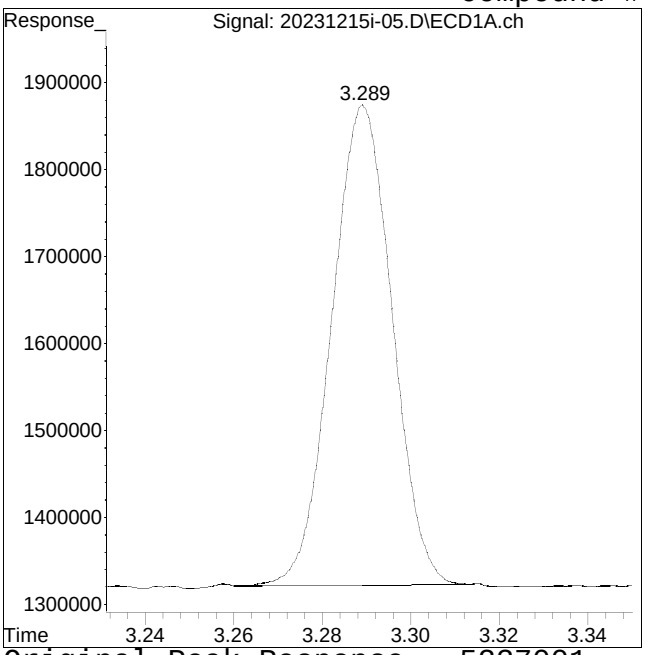
Manual Peak Response = 5032695 M4

M4 = Poor automated baseline construction.

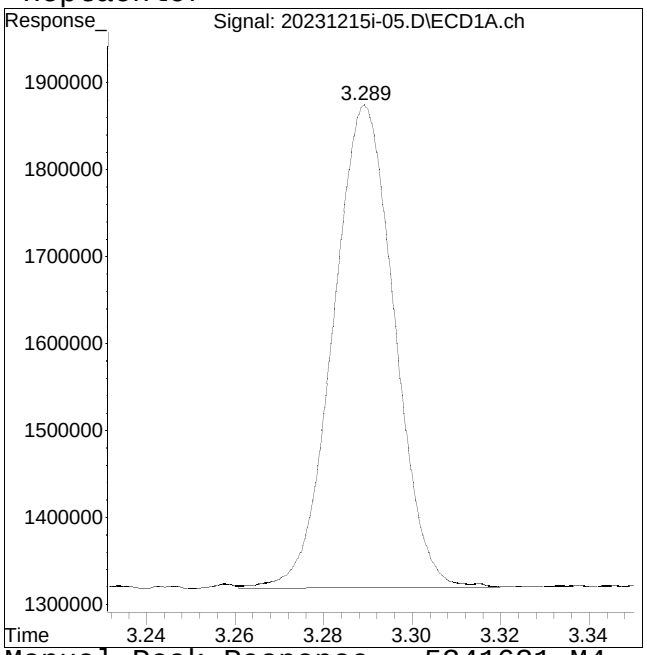
Manual Integration Report

Data Path : I:\PEST\Pest20\2023\231215QMethod : pest20_2023_12_15_ugL_IC
Data File : 20231215i-05.D Operator : pest20:ejl
Date Inj'd : 12/15/2023 5:24 pm Instrument : PEST 20
Sample : il3pest,42e,,pp 11404 L0.0Quant Date : 12/18/2023 11:57 am

Compound #8: Heptachlor



Original Peak Response = 5237001



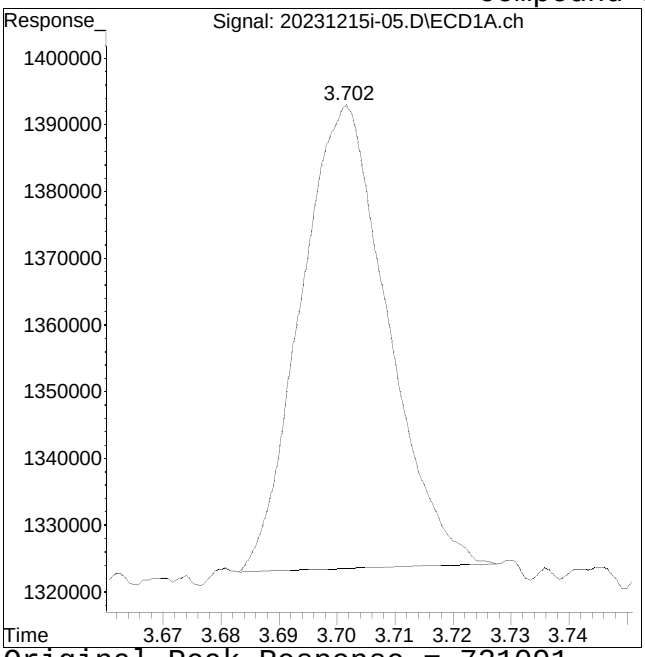
Manual Peak Response = 5341631 M4

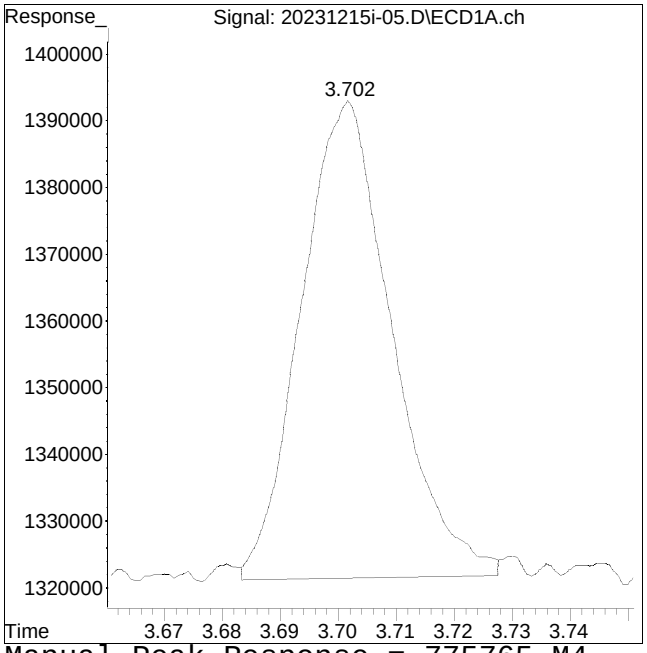
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2023\231215QMethod : pest20_2023_12_15_ugL_IC
Data File : 20231215i-05.D Operator : pest20:ejl
Date Inj'd : 12/15/2023 5:24 pm Instrument : PEST 20
Sample : il3pest,42e,,pp 11404 L0.0Quant Date : 12/18/2023 11:57 am

Compound #10: Alachlor



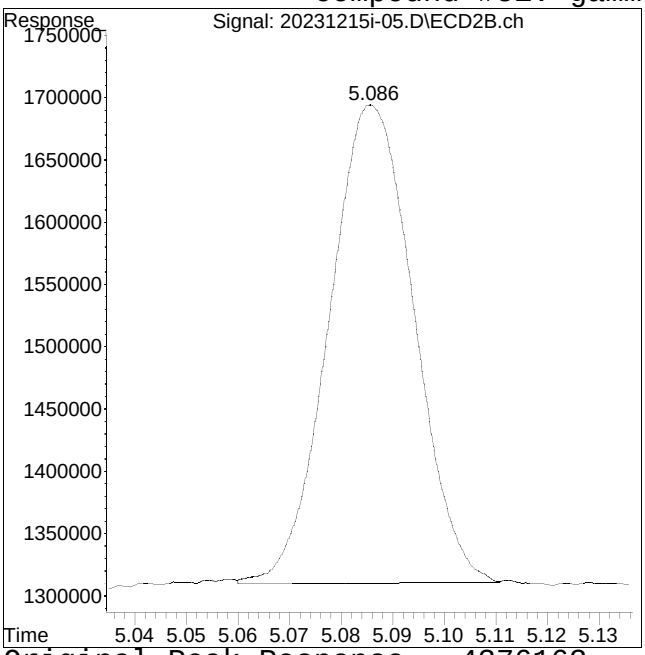


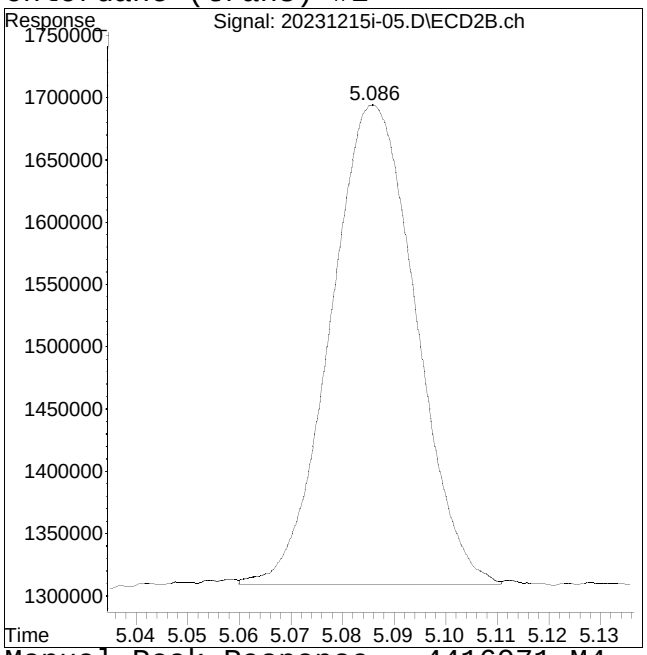
Original Peak Response = 721091 Manual Peak Response = 775765 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2023\231215QMethod : pest20_2023_12_15_ugL_IC
Data File : 20231215i-05.D Operator : pest20:ejl
Date Inj'd : 12/15/2023 5:24 pm Instrument : PEST 20
Sample : il3pest,42e,,pp 11404 L0.0Quant Date : 12/18/2023 11:57 am

Compound #51: gamma-Chlordane (trans) #2



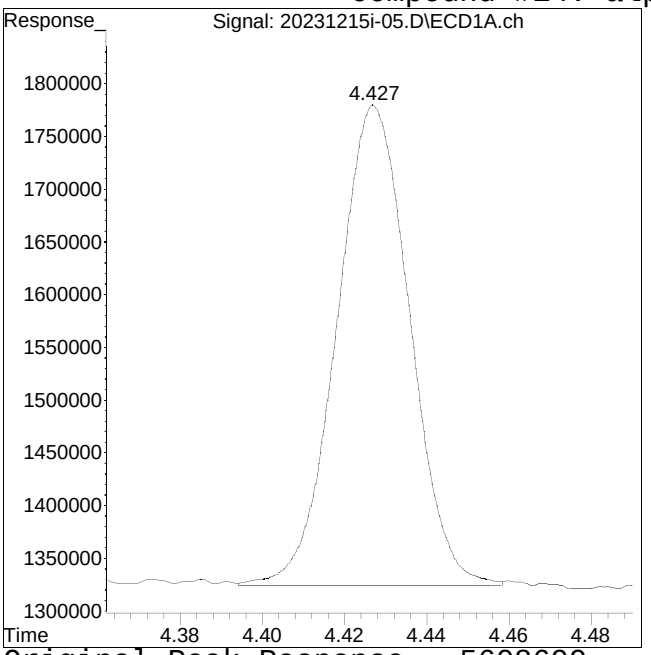


Original Peak Response = 4376163 Manual Peak Response = 4416071 M4
M4 = Poor automated baseline construction.

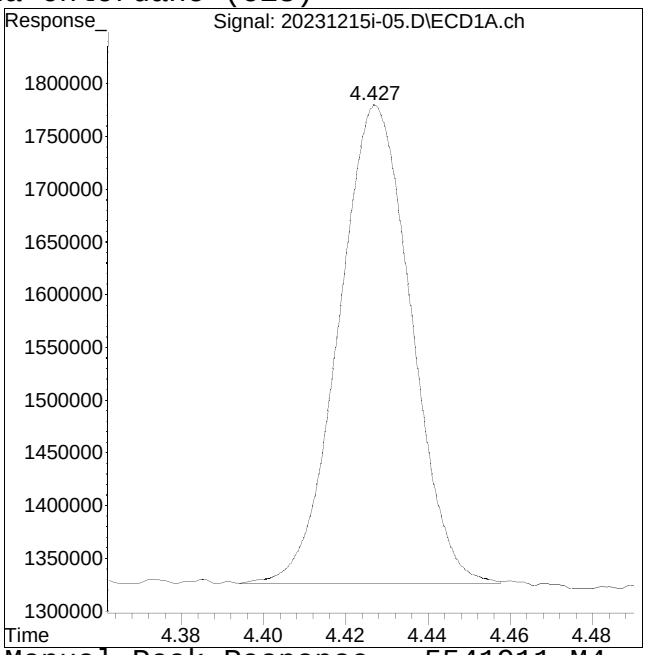
Manual Integration Report

Data Path : I:\PEST\Pest20\2023\231215QMethod : pest20_2023_12_15_ugL_IC
Data File : 20231215i-05.D Operator : pest20:ejl
Date Inj'd : 12/15/2023 5:24 pm Instrument : PEST 20
Sample : il3pest,42e,,pp 11404 L0.0Quant Date : 12/18/2023 11:57 am

Compound #14: alpha-Chlordane (cis)



Original Peak Response = 5608699



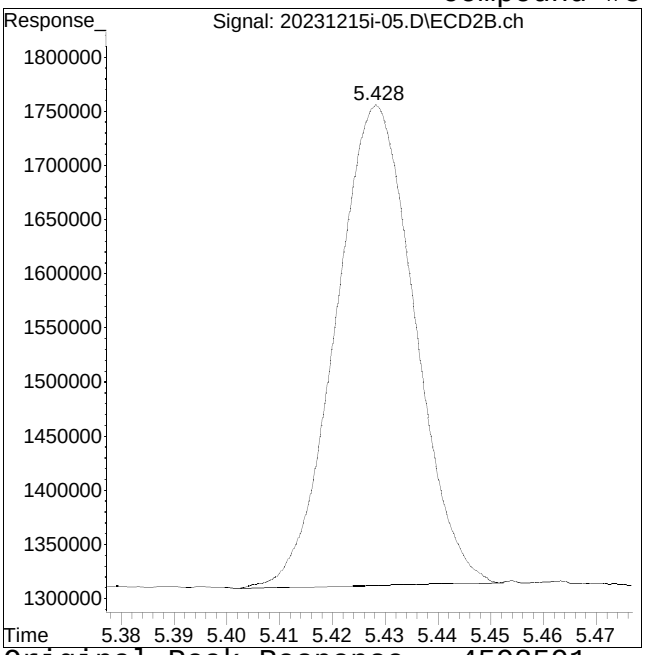
Manual Peak Response = 5541911 M4

M4 = Poor automated baseline construction.

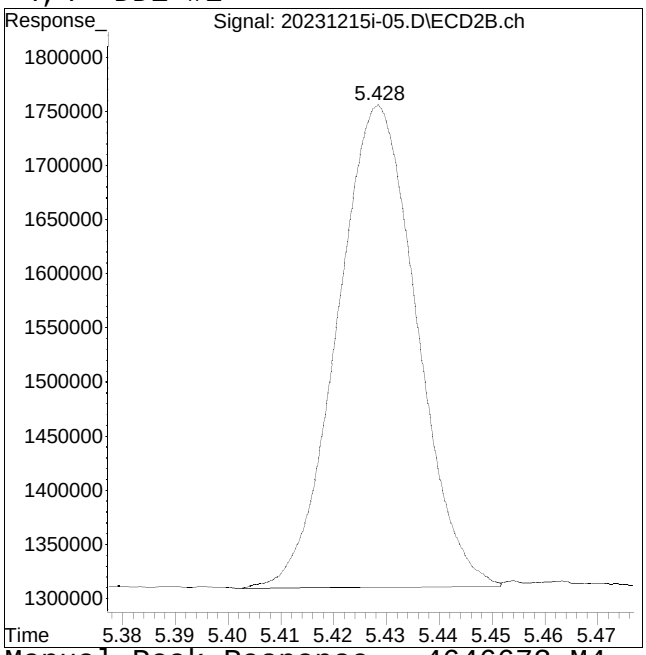
Manual Integration Report

Data Path : I:\PEST\Pest20\2023\231215QMethod : pest20_2023_12_15_ugL_IC
Data File : 20231215i-05.D Operator : pest20:ejl
Date Inj'd : 12/15/2023 5:24 pm Instrument : PEST 20
Sample : il3pest,42e,,pp 11404 L0.0Quant Date : 12/18/2023 11:57 am

Compound #53: 4,4'-DDE #2



Original Peak Response = 4592591



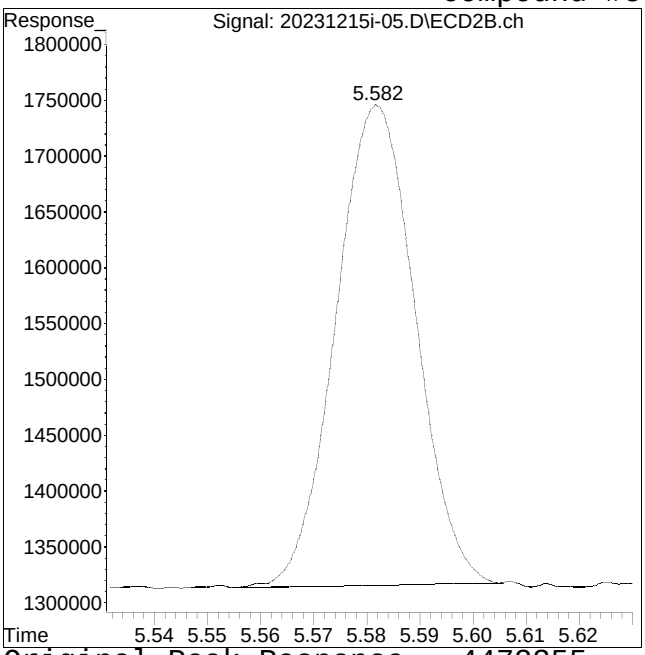
Manual Peak Response = 4646673 M4

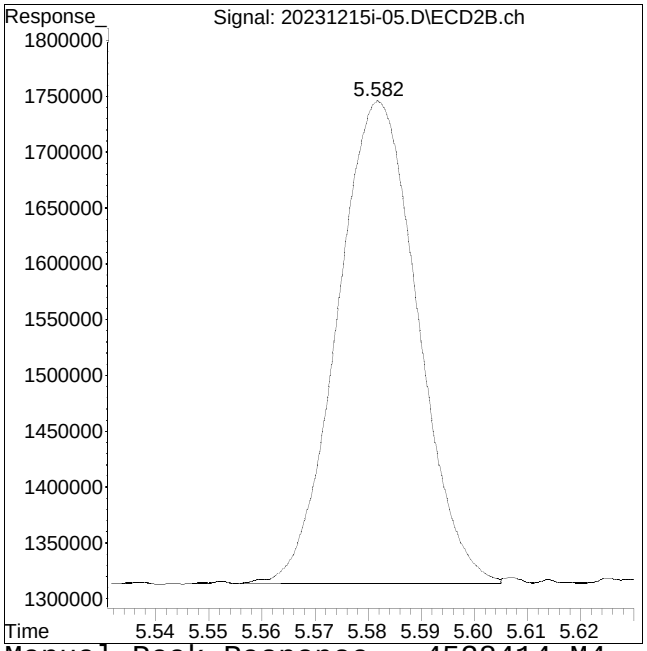
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2023\231215QMethod : pest20_2023_12_15_ugL_IC
Data File : 20231215i-05.D Operator : pest20:ejl
Date Inj'd : 12/15/2023 5:24 pm Instrument : PEST 20
Sample : il3pest,42e,,pp 11404 L0.0Quant Date : 12/18/2023 11:57 am

Compound #55: Dieldrin #2



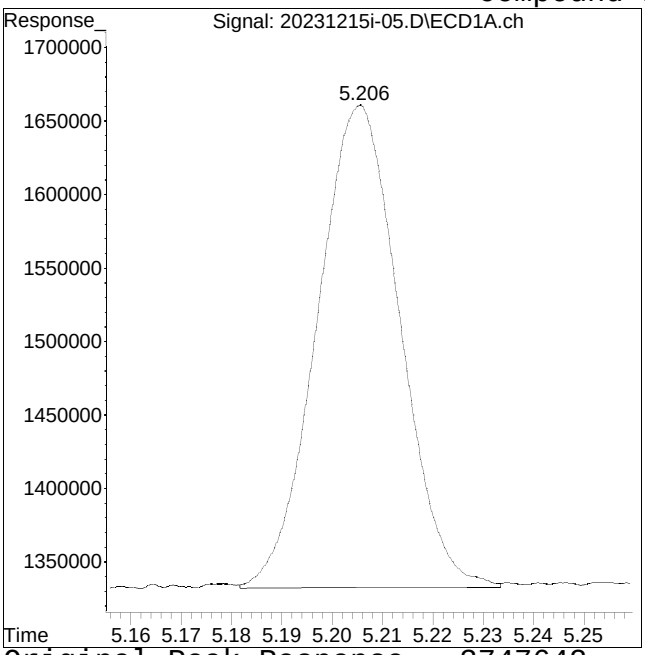


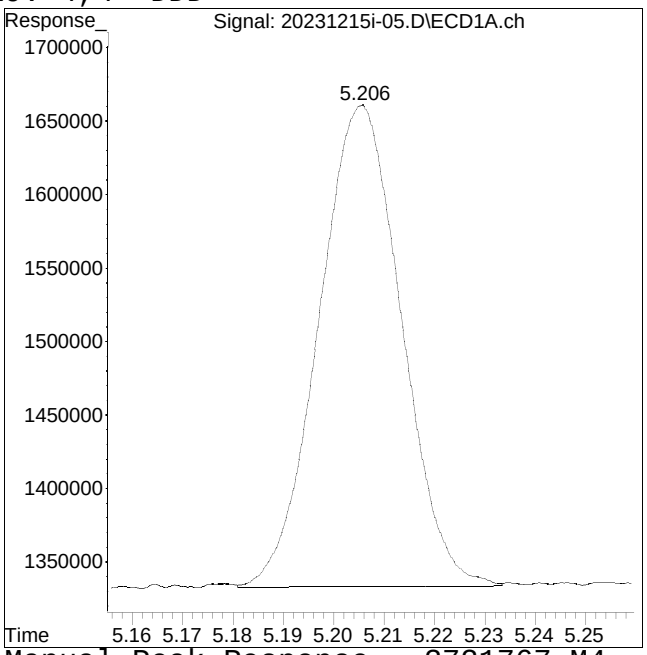
Original Peak Response = 4472355 Manual Peak Response = 4528414 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2023\231215QMethod : pest20_2023_12_15_ugL_IC
Data File : 20231215i-05.D Operator : pest20:ejl
Date Inj'd : 12/15/2023 5:24 pm Instrument : PEST 20
Sample : il3pest,42e,,pp 11404 L0.0Quant Date : 12/18/2023 11:57 am

Compound #19: 4,4'-DDD



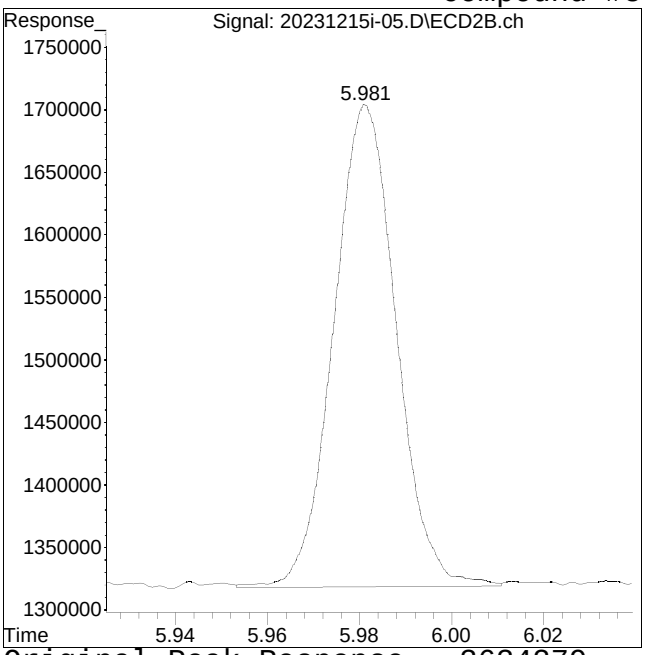


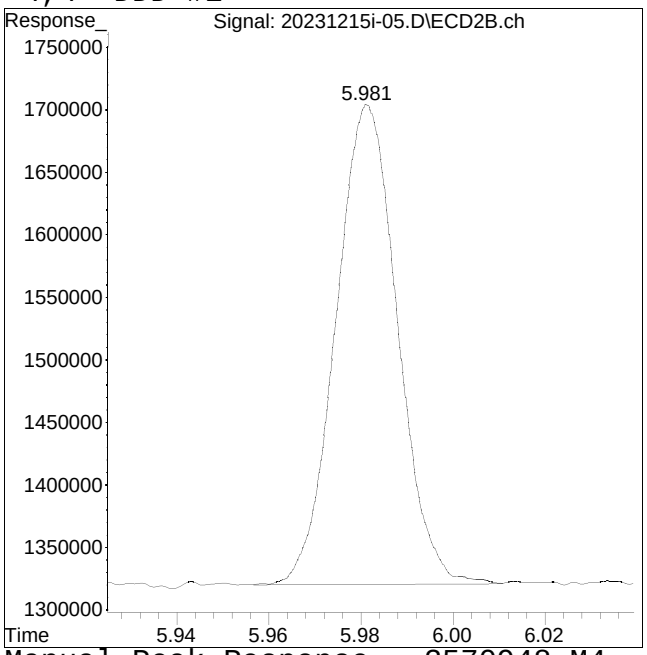
Original Peak Response = 3747642 Manual Peak Response = 3721767 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2023\231215QMethod : pest20_2023_12_15_ugL_IC
Data File : 20231215i-05.D Operator : pest20:ejl
Date Inj'd : 12/15/2023 5:24 pm Instrument : PEST 20
Sample : il3pest,42e,,pp 11404 L0.0Quant Date : 12/18/2023 11:57 am

Compound #57: 4,4'-DDD #2



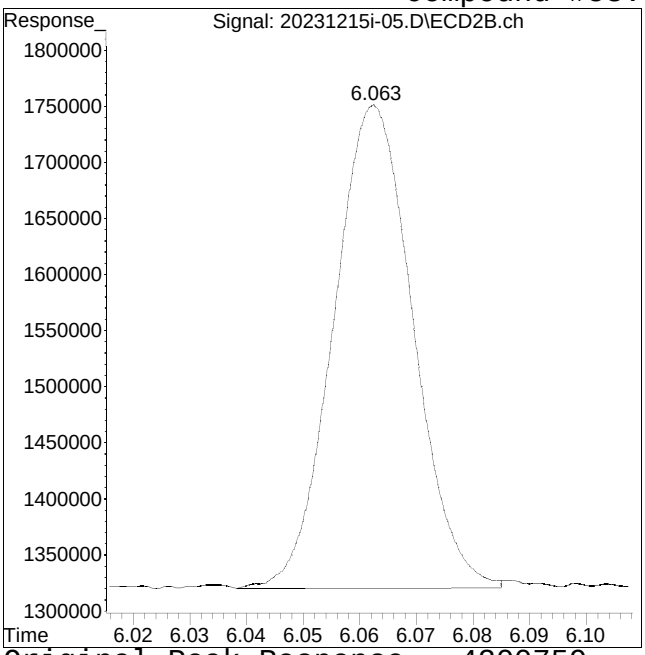


Original Peak Response = 3634279 Manual Peak Response = 3570948 M4
M4 = Poor automated baseline construction.

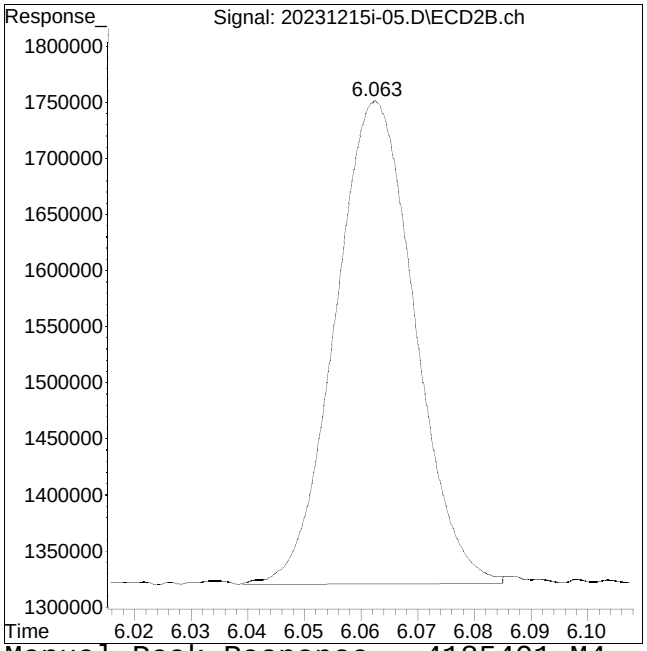
Manual Integration Report

Data Path : I:\PEST\Pest20\2023\231215QMethod : pest20_2023_12_15_ugL_IC
Data File : 20231215i-05.D Operator : pest20:ejl
Date Inj'd : 12/15/2023 5:24 pm Instrument : PEST 20
Sample : il3pest,42e,,pp 11404 L0.0Quant Date : 12/18/2023 11:57 am

Compound #58: Endosulfan II #2



Original Peak Response = 4200759



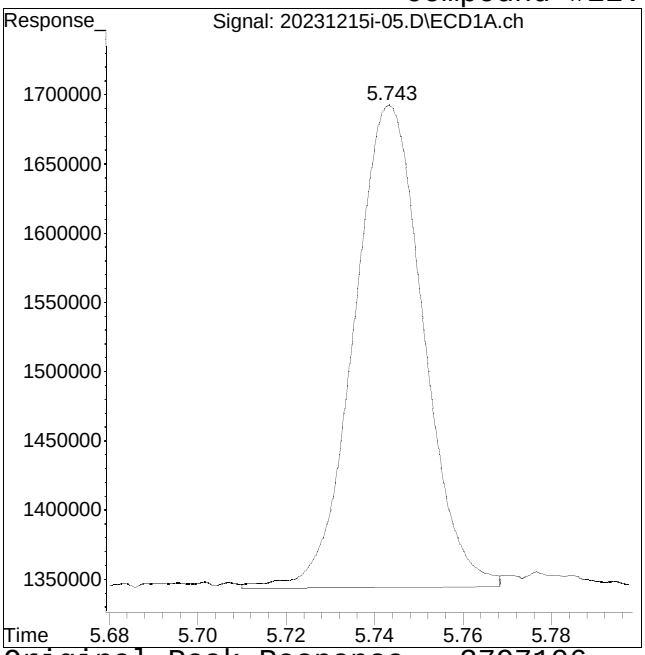
Manual Peak Response = 4185401 M4

M4 = Poor automated baseline construction.

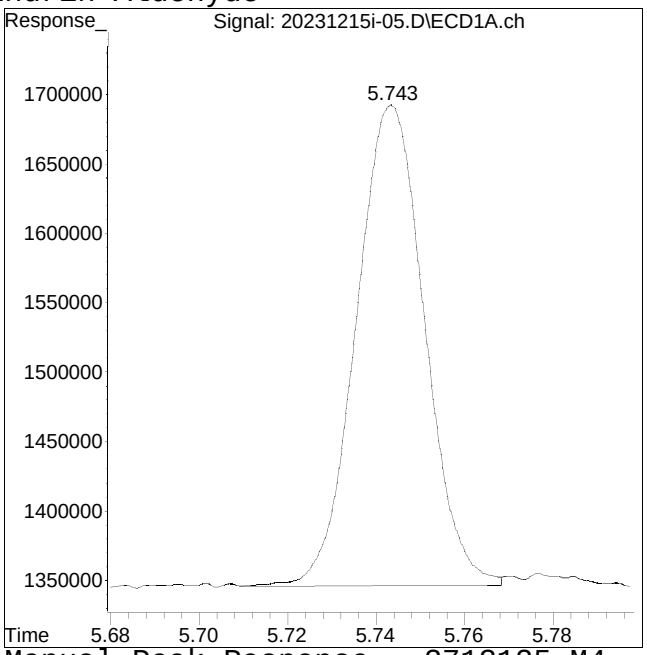
Manual Integration Report

Data Path : I:\PEST\Pest20\2023\231215QMethod : pest20_2023_12_15_ugL_IC
Data File : 20231215i-05.D Operator : pest20:ejl
Date Inj'd : 12/15/2023 5:24 pm Instrument : PEST 20
Sample : il3pest,42e,,pp 11404 L0.0Quant Date : 12/18/2023 11:57 am

Compound #22: Endrin Aldehyde



Original Peak Response = 3797106



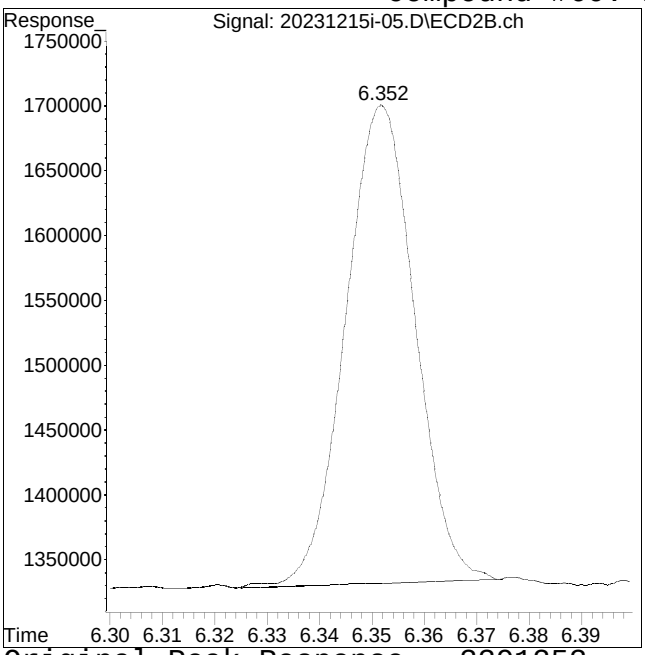
Manual Peak Response = 3713125 M4

M4 = Poor automated baseline construction.

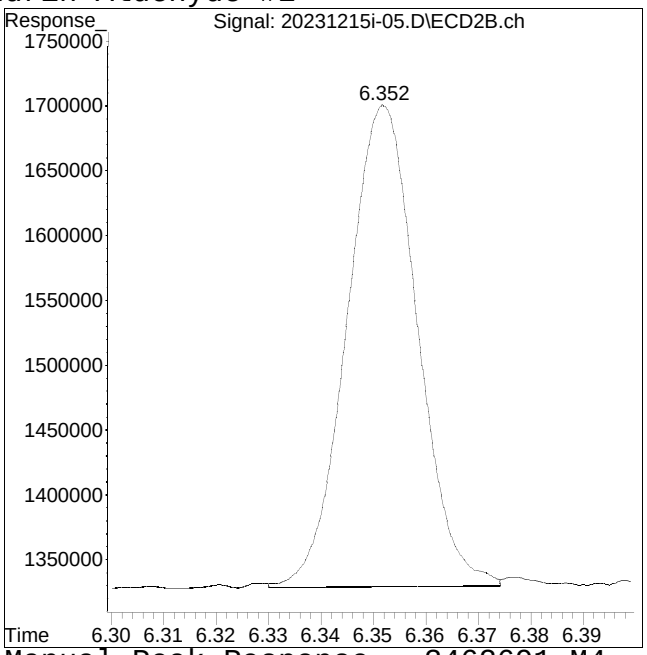
Manual Integration Report

Data Path : I:\PEST\Pest20\2023\231215QMethod : pest20_2023_12_15_ugL_IC
Data File : 20231215i-05.D Operator : pest20:ejl
Date Inj'd : 12/15/2023 5:24 pm Instrument : PEST 20
Sample : il3pest,42e,,pp 11404 L0.0Quant Date : 12/18/2023 11:57 am

Compound #60: Endrin Aldehyde #2



Original Peak Response = 3391253



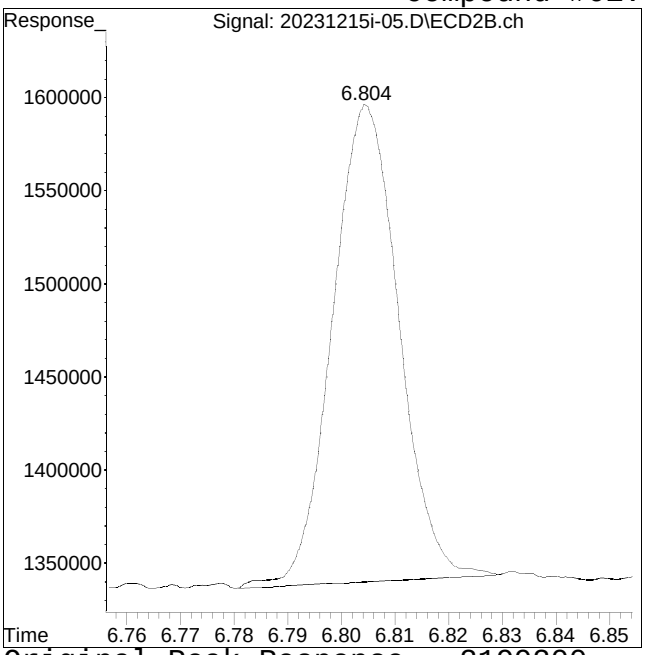
Manual Peak Response = 3462691 M4

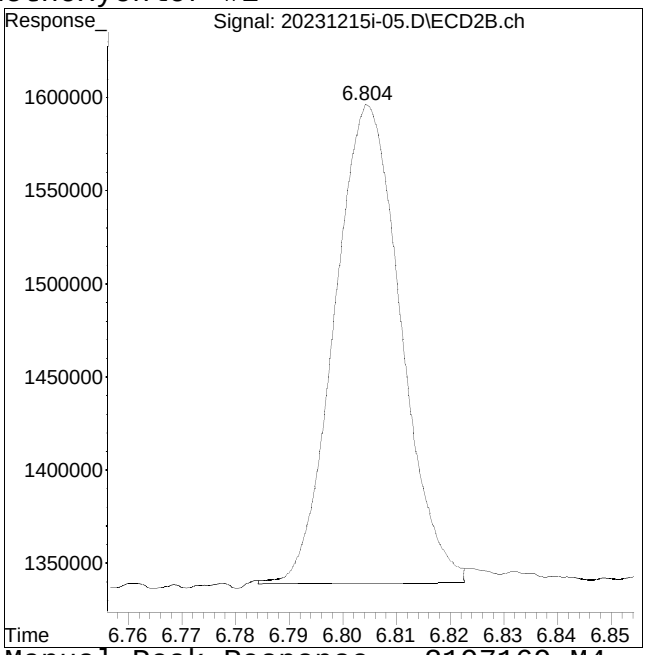
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2023\231215QMethod : pest20_2023_12_15_ugL_IC
Data File : 20231215i-05.D Operator : pest20:ejl
Date Inj'd : 12/15/2023 5:24 pm Instrument : PEST 20
Sample : il3pest,42e,,pp 11404 L0.0Quant Date : 12/18/2023 11:57 am

Compound #61: Methoxychlor #2



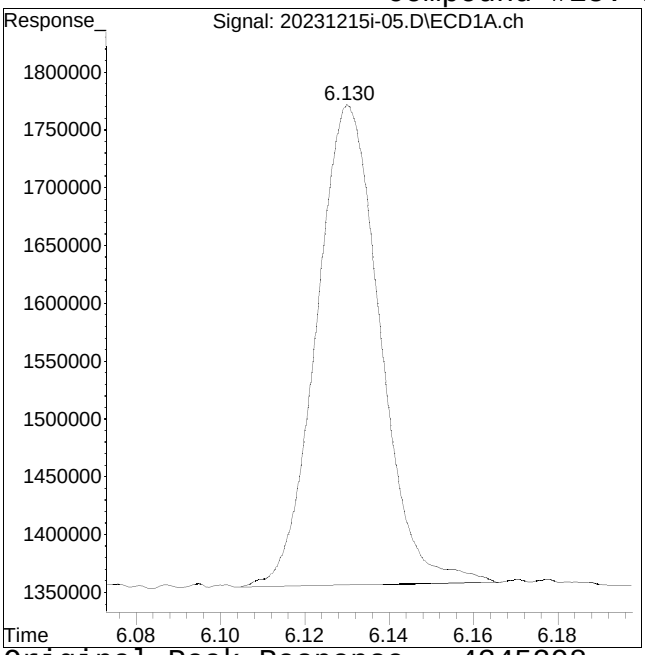


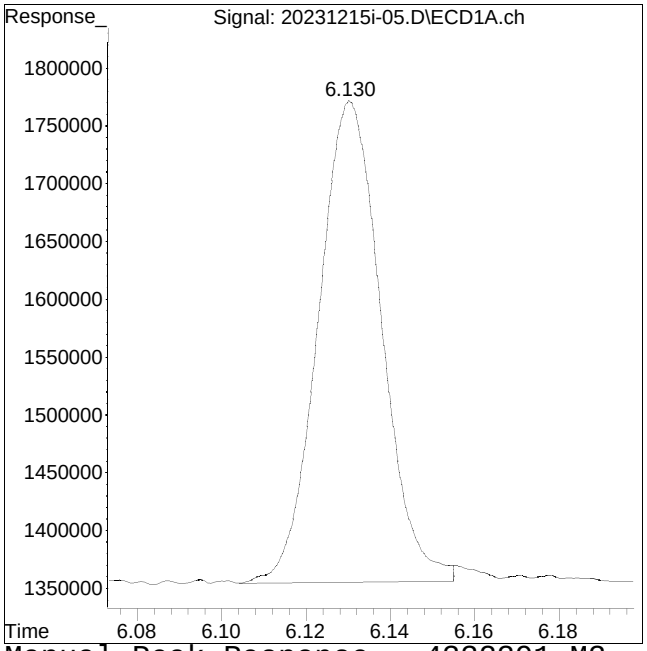
Original Peak Response = 2199200 Manual Peak Response = 2197169 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2023\231215QMethod : pest20_2023_12_15_ugL_IC
Data File : 20231215i-05.D Operator : pest20:ejl
Date Inj'd : 12/15/2023 5:24 pm Instrument : PEST 20
Sample : il3pest,42e,,pp 11404 L0.0Quant Date : 12/18/2023 11:57 am

Compound #25: Endosulfan Sulfate



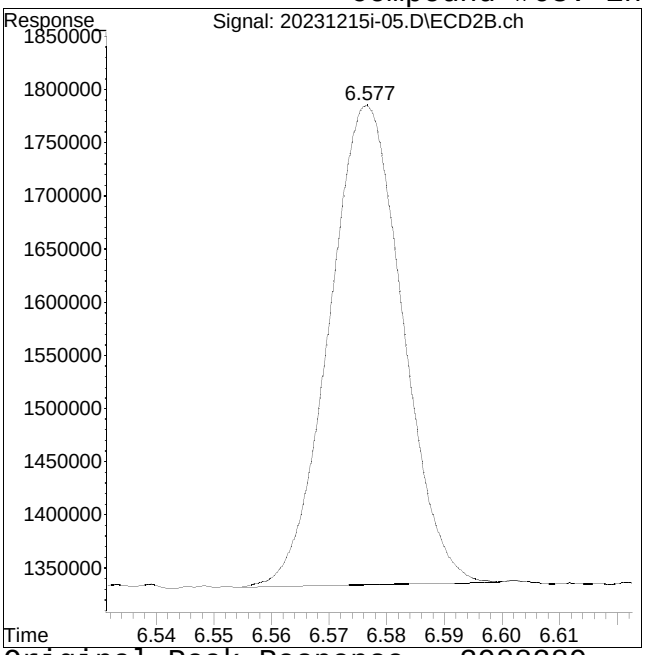


Original Peak Response = 4345298 Manual Peak Response = 4332391 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

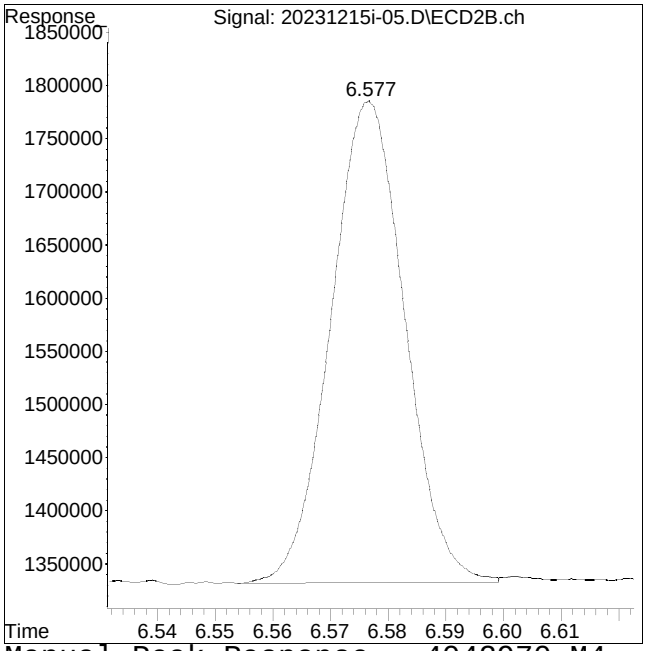
Manual Integration Report

Data Path : I:\PEST\Pest20\2023\231215QMethod : pest20_2023_12_15_ugL_IC
Data File : 20231215i-05.D Operator : pest20:ejl
Date Inj'd : 12/15/2023 5:24 pm Instrument : PEST 20
Sample : il3pest,42e,,pp 11404 L0.0Quant Date : 12/18/2023 11:57 am

Compound #63: Endosulfan Sulfate #2



Original Peak Response = 3988289



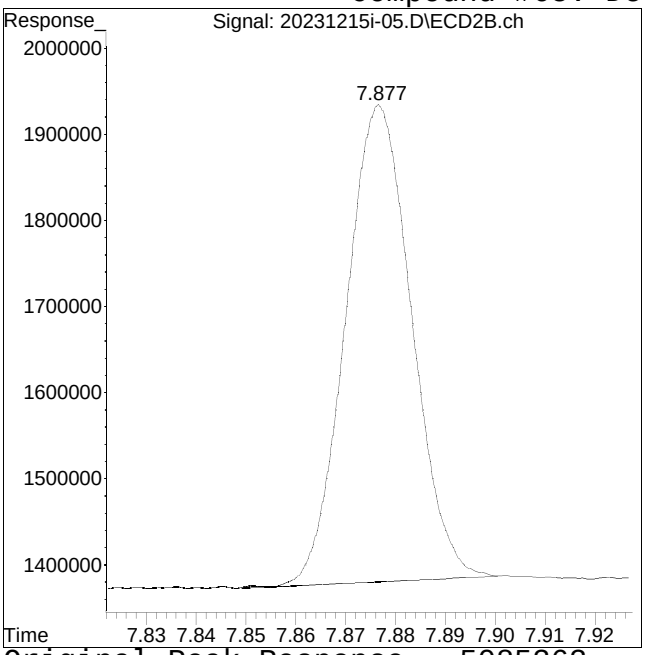
Manual Peak Response = 4042970 M4

M4 = Poor automated baseline construction.

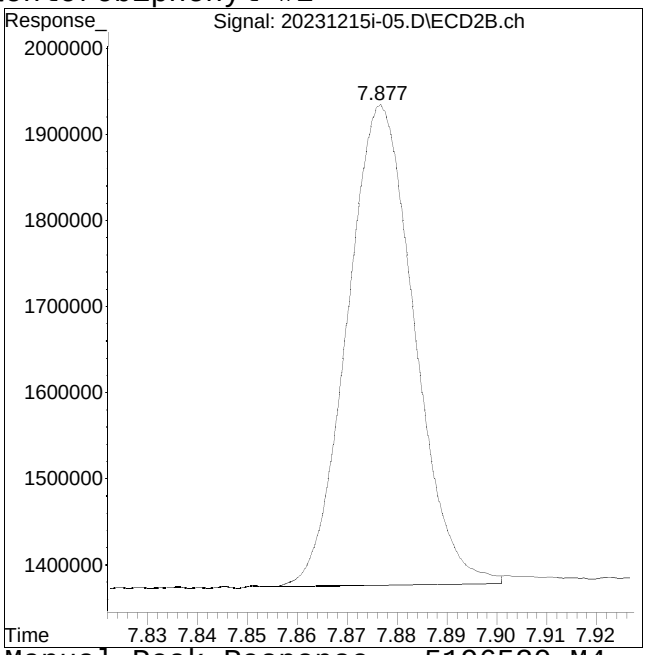
Manual Integration Report

Data Path : I:\PEST\Pest20\2023\231215QMethod : pest20_2023_12_15_ugL_IC
Data File : 20231215i-05.D Operator : pest20:ejl
Date Inj'd : 12/15/2023 5:24 pm Instrument : PEST 20
Sample : il3pest,42e,,pp 11404 L0.0Quant Date : 12/18/2023 11:57 am

Compound #65: Decachlorobiphenyl #2



Original Peak Response = 5085363



Manual Peak Response = 5196520 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest20\2023\231215ical\
Data File : 20231215i-06.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Dec 2023 05:36 pm
Operator : pest20:ejl
Sample : il4pest,42e,,pp 11403 L0.003
Misc : wg1865714,ical (Sig #1); ical (Sig #2)
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 18 11:57:32 2023
Quant Method : I:\PEST\Pest20\2023\231215ical\pest20_2023_12_15_ugL_ICAL.m
Quant Title : pest
QLast Update : Mon Dec 18 11:50:44 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	1.829	1.992	47091135	44691653	25.000	25.000
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	2.286	2.602	6979399	7229263	3.553	3.577
	Spiked Amount 50.000	Range 30 - 150		Recovery =		7.11%#	7.15%#
27) s	Decachlorobi	7.157	7.874	8219374	7316304	3.985	4.034M4
	Spiked Amount 50.000	Range 30 - 150		Recovery =		7.97%#	8.07%#
	Target Compounds						
3)	Hexachlorobe	2.544	2.980	8393871	8254227	3.826M4	3.842
4)	alpha-BHC	2.664	3.094	8084314	8048013	3.162	3.173
5)	gamma-BHC (l	2.899	3.418	7686691	7648600	3.332	3.328
6)	beta-BHC	2.968	3.494	4244545	4258068	3.801	3.732
7)	delta-BHC	3.111	3.790	7625672	7520057	3.247	3.215
8)	Heptachlor	3.290	3.859	7542626	7107184	3.597	3.593
9)	Aldrin	3.558	4.208	7526283	7121668	3.331	3.317
10)	Alachlor	3.702	4.085	1193866	1038049	3.436	3.354
11)	Chlorpyrifos	3.801	4.468	3818766	3881929	3.914	3.713
12)	Heptachlor E	4.152	4.871	7451158	7244120	3.624	3.533
13)	gamma-Chlord	4.284	5.086	6878128	6384575	3.568M4	3.513M4
14)	alpha-Chlord	4.428	5.245	7895389	7269557	3.593M4	3.545M4
15)	4,4'-DDE	4.535	5.428	7162473	6703188	3.299	3.288M4
16)	Endosulfan I	4.573	5.304	7102888	6626447	3.588	3.469M4
17)	Dieldrin	4.848	5.581	6945423	6544785	3.392	3.351M4
18)	Endrin	5.099	5.869	6860230	6564765	3.469	3.399M4
19)	4,4'-DDD	5.206	5.981	5419616	5194904	3.338	3.318
20)	Endosulfan I	5.334	6.062	6400393	6024430	3.600	3.509M4
21)	4,4'-DDT	5.490	6.252	5403495	5398816	3.435M4	3.474M4

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest20\2023\231215ical\
Data File : 20231215i-06.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Dec 2023 05:36 pm
Operator : pest20:ejl
Sample : il4pest,42e,,pp 11403 L0.003
Misc : wg1865714,ical (Sig #1); ical (Sig #2)
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 18 11:57:32 2023
Quant Method : I:\PEST\Pest20\2023\231215ical\pest20_2023_12_15_ugL_ICAL.m
Quant Title : pest
QLast Update : Mon Dec 18 11:50:44 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
22)	Endrin Aldeh	5.744	6.351	5441261	5126887	3.590	3.500
23)	Methoxychlor	5.968	6.803	3333442	3267470	3.772M4	3.728M3
24)	Mirex	6.027	6.957	6487480	6106688	4.070M4	4.071
25)	Endosulfan S	6.130	6.576	6264370	5781418	3.778M4	3.621M4
26)	Endrin Keton	6.358	6.989	6607981	6363459	3.657	3.600M4
29) l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

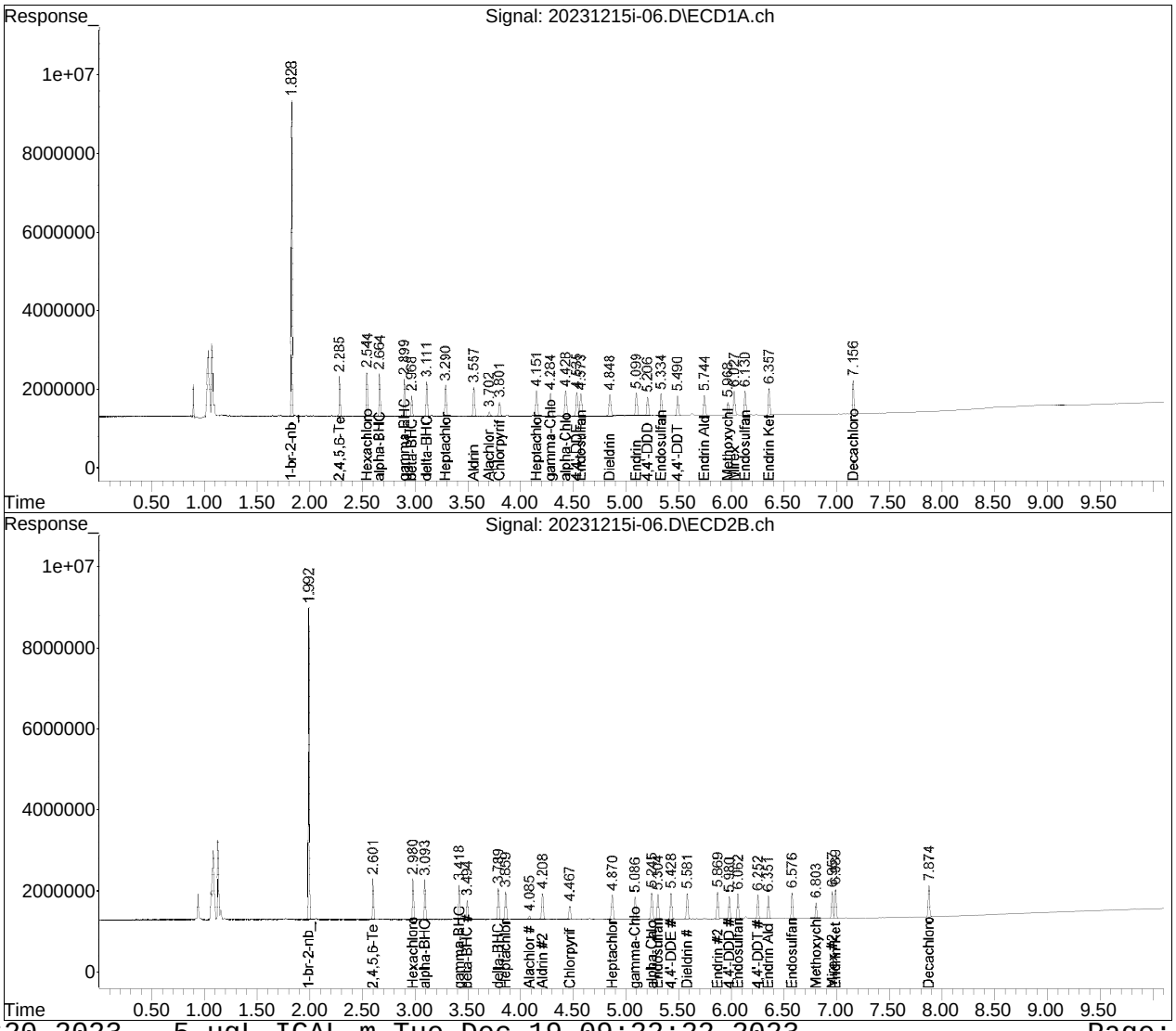
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest20\2023\231215ical\
Data File : 20231215i-06.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Dec 2023 05:36 pm
Operator : pest20:ejl
Sample : il4pest,42e,,pp 11403 L0.003
Misc : wg1865714,ical (Sig #1); ical (Sig #2)
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 18 11:57:32 2023
Quant Method : I:\PEST\Pest20\2023\231215ical\pest20_2023_12_15_ugL_ICAL.m
Quant Title : pest
QLast Update : Mon Dec 18 11:50:44 2023
Response via : Initial Calibration
Integrator: ChemStation

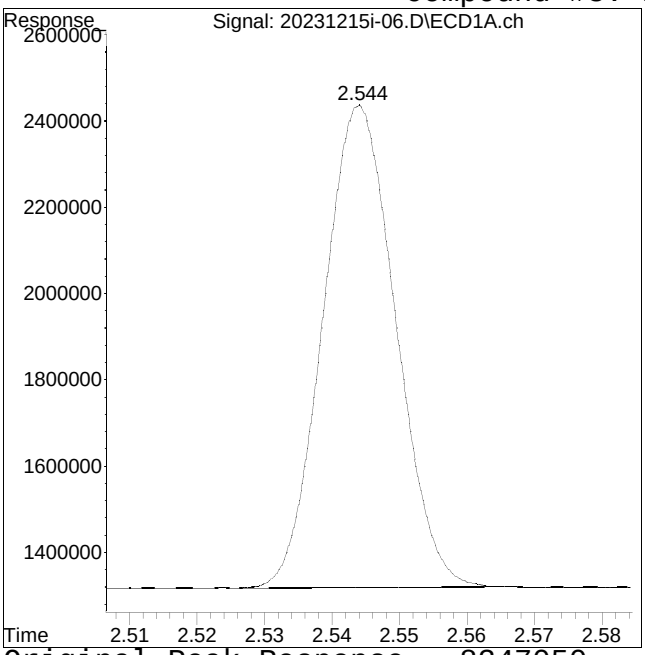
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



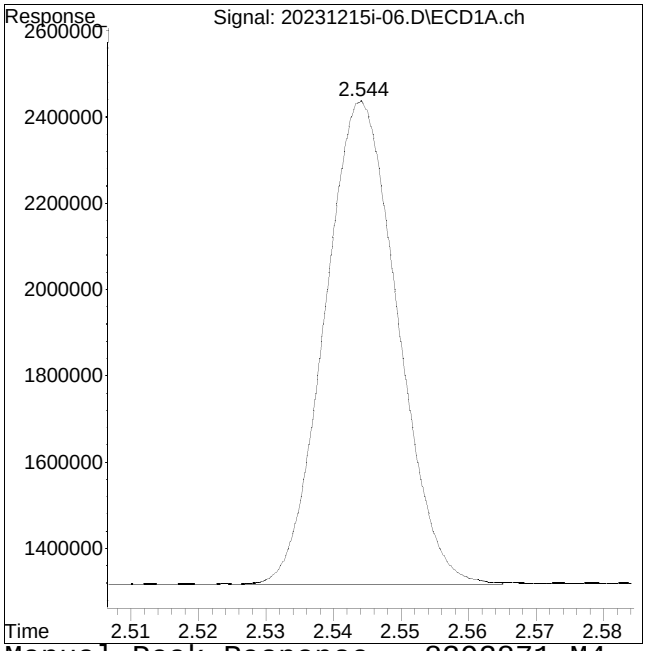
Manual Integration Report

Data Path : I:\PEST\Pest20\2023\231215QMethod : pest20_2023_12_15_ugL_IC
Data File : 20231215i-06.D Operator : pest20:ejl
Date Inj'd : 12/15/2023 5:36 pm Instrument : PEST 20
Sample : il4pest,42e,,pp 11403 L0.0Quant Date : 12/18/2023 11:50 am

Compound #3: Hexachlorobenzene



Original Peak Response = 8347050



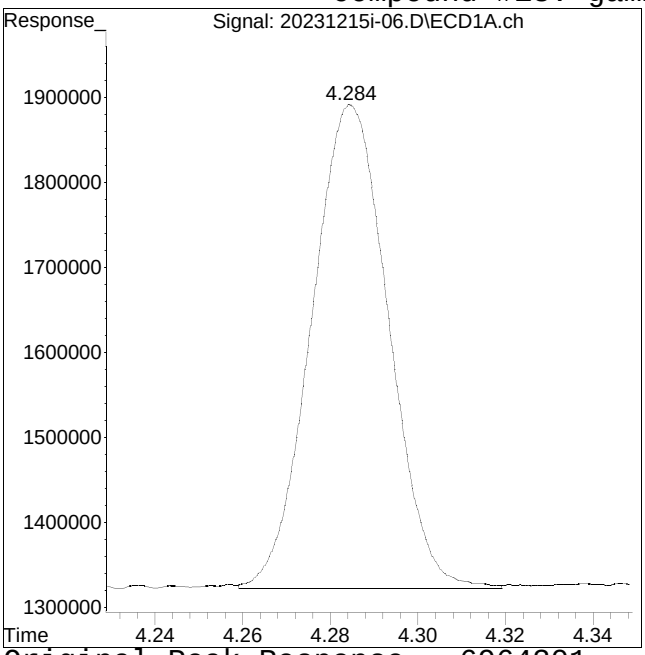
Manual Peak Response = 8393871 M4

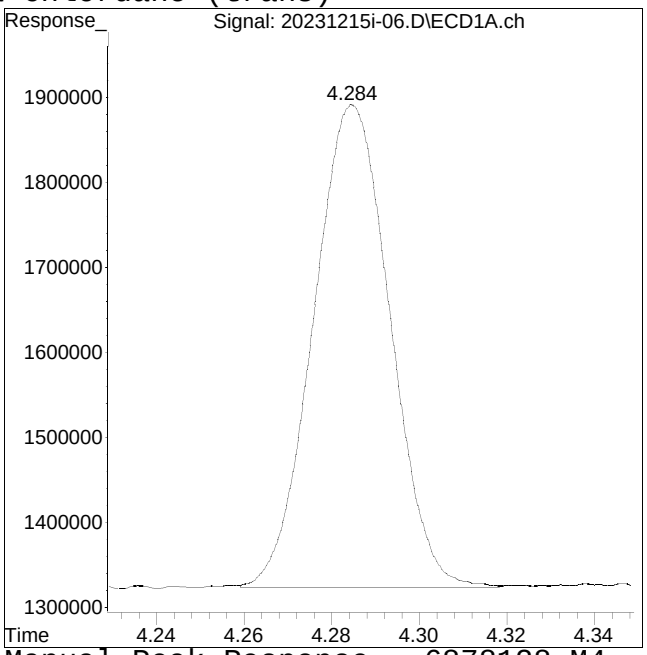
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2023\231215QMethod : pest20_2023_12_15_ugL_IC
Data File : 20231215i-06.D Operator : pest20:ejl
Date Inj'd : 12/15/2023 5:36 pm Instrument : PEST 20
Sample : il4pest,42e,,pp 11403 L0.0Quant Date : 12/18/2023 11:50 am

Compound #13: gamma-Chlordane (trans)



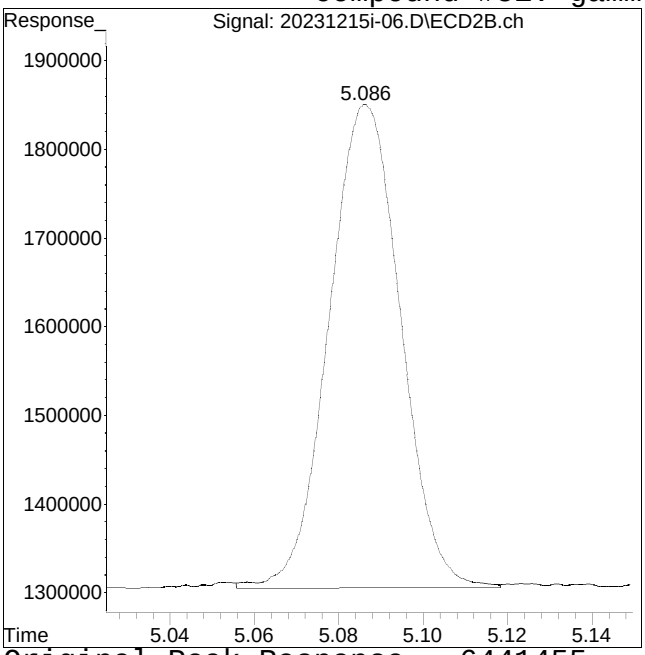


Original Peak Response = 6964301 Manual Peak Response = 6878128 M4
M4 = Poor automated baseline construction.

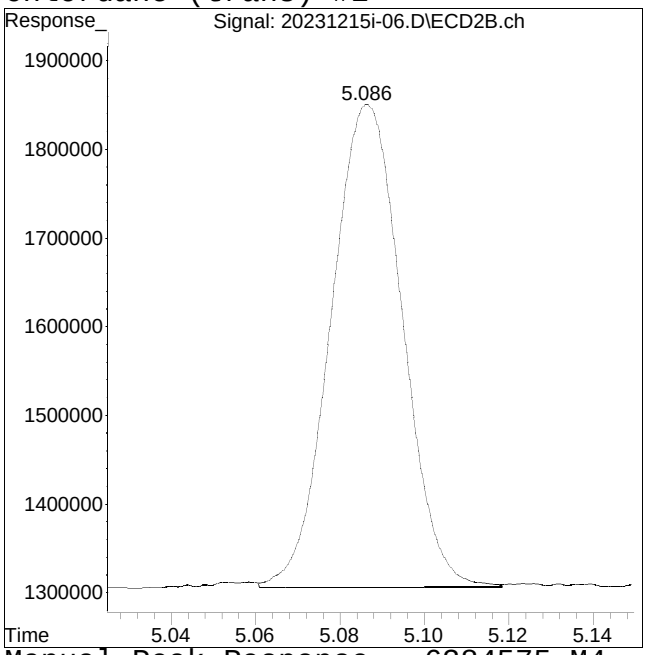
Manual Integration Report

Data Path : I:\PEST\Pest20\2023\231215QMethod : pest20_2023_12_15_ugL_IC
Data File : 20231215i-06.D Operator : pest20:ejl
Date Inj'd : 12/15/2023 5:36 pm Instrument : PEST 20
Sample : il4pest,42e,,pp 11403 L0.0Quant Date : 12/18/2023 11:50 am

Compound #51: gamma-Chlordane (trans) #2



Original Peak Response = 6441455



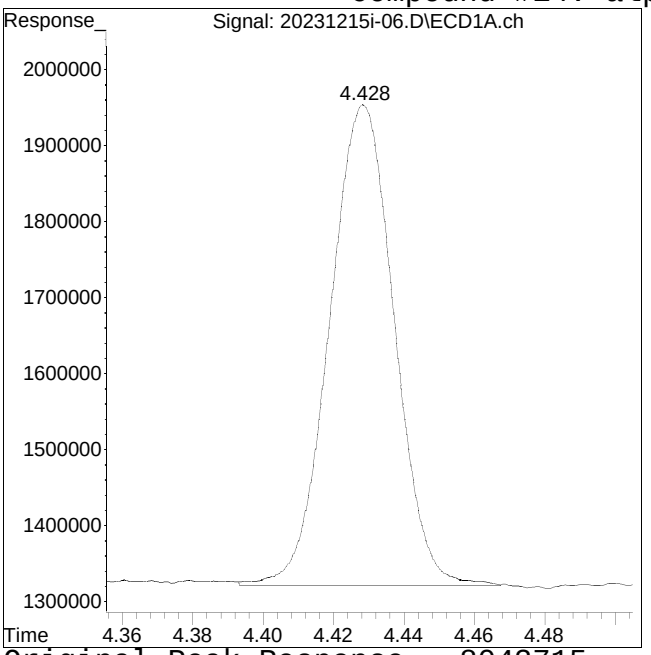
Manual Peak Response = 6384575 M4

M4 = Poor automated baseline construction.

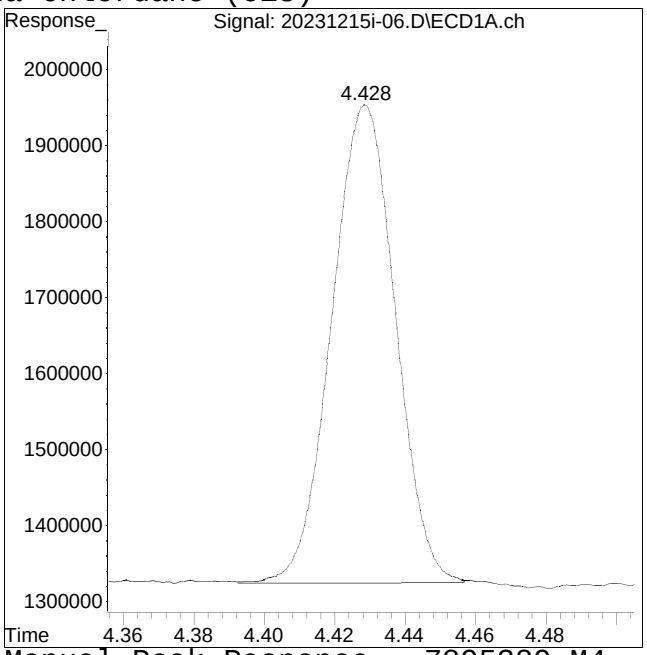
Manual Integration Report

Data Path : I:\PEST\Pest20\2023\231215QMethod : pest20_2023_12_15_ugL_IC
Data File : 20231215i-06.D Operator : pest20:ejl
Date Inj'd : 12/15/2023 5:36 pm Instrument : PEST 20
Sample : il4pest,42e,,pp 11403 L0.0Quant Date : 12/18/2023 11:50 am

Compound #14: alpha-Chlordane (cis)



Original Peak Response = 8043715



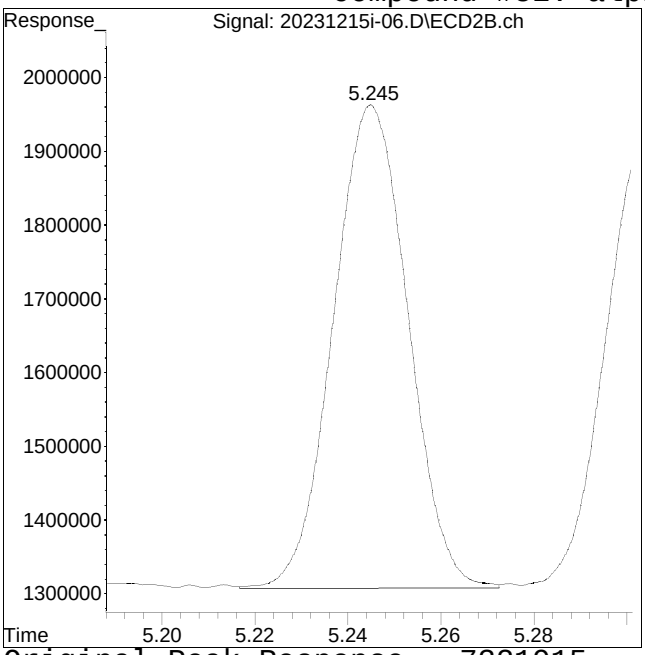
Manual Peak Response = 7895389 M4

M4 = Poor automated baseline construction.

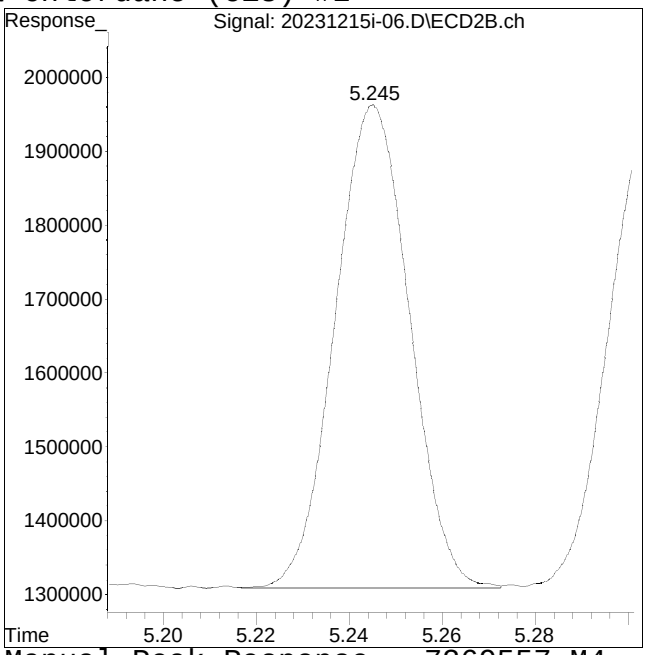
Manual Integration Report

Data Path : I:\PEST\Pest20\2023\231215QMethod : pest20_2023_12_15_ugL_IC
Data File : 20231215i-06.D Operator : pest20:ejl
Date Inj'd : 12/15/2023 5:36 pm Instrument : PEST 20
Sample : il4pest,42e,,pp 11403 L0.0Quant Date : 12/18/2023 11:50 am

Compound #52: alpha-Chlordane (cis) #2



Original Peak Response = 7321915



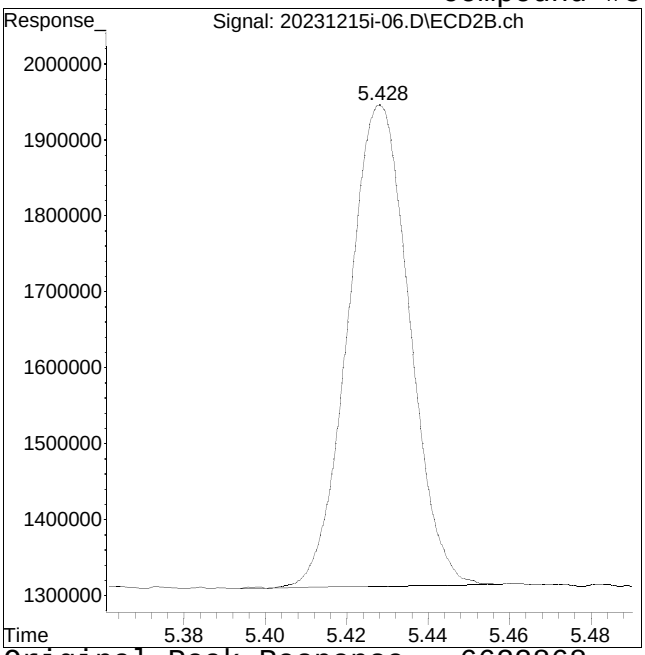
Manual Peak Response = 7269557 M4

M4 = Poor automated baseline construction.

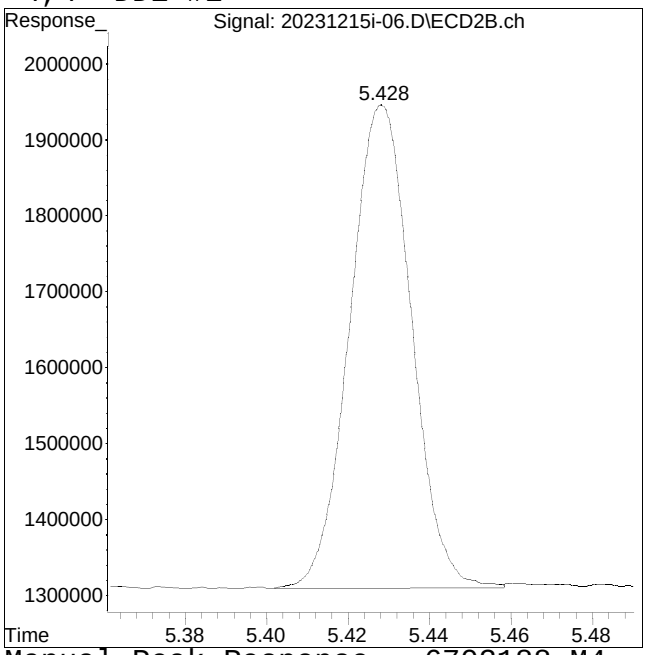
Manual Integration Report

Data Path : I:\PEST\Pest20\2023\231215QMethod : pest20_2023_12_15_ugL_IC
Data File : 20231215i-06.D Operator : pest20:ejl
Date Inj'd : 12/15/2023 5:36 pm Instrument : PEST 20
Sample : il4pest,42e,,pp 11403 L0.0Quant Date : 12/18/2023 11:50 am

Compound #53: 4,4'-DDE #2



Original Peak Response = 6622868



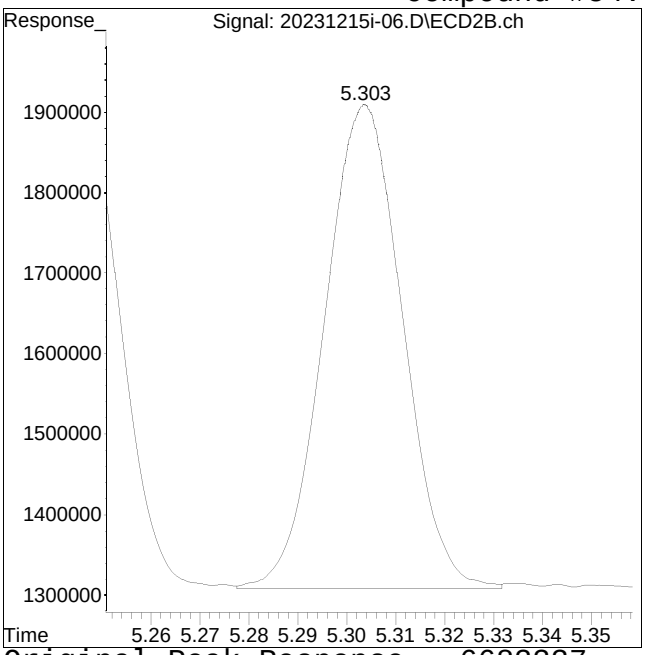
Manual Peak Response = 6703188 M4

M4 = Poor automated baseline construction.

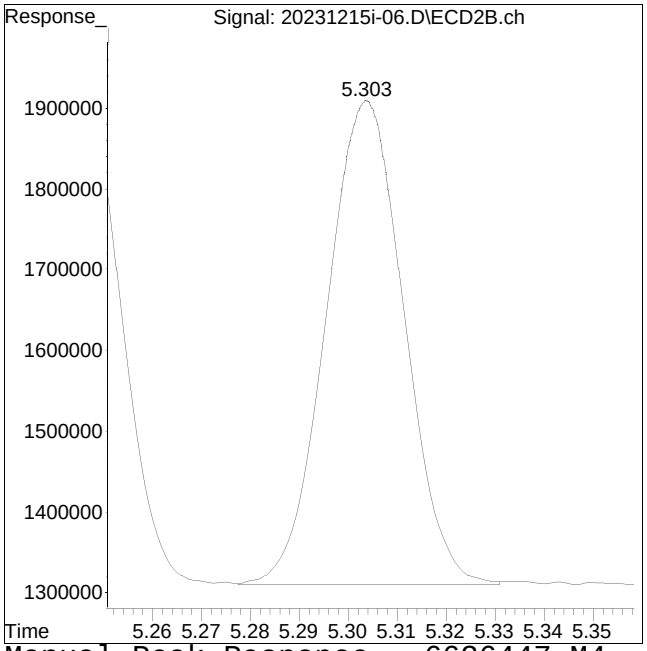
Manual Integration Report

Data Path : I:\PEST\Pest20\2023\231215QMethod : pest20_2023_12_15_ugL_IC
Data File : 20231215i-06.D Operator : pest20:ejl
Date Inj'd : 12/15/2023 5:36 pm Instrument : PEST 20
Sample : il4pest,42e,,pp 11403 L0.0Quant Date : 12/18/2023 11:50 am

Compound #54: Endosulfan I #2



Original Peak Response = 6683337



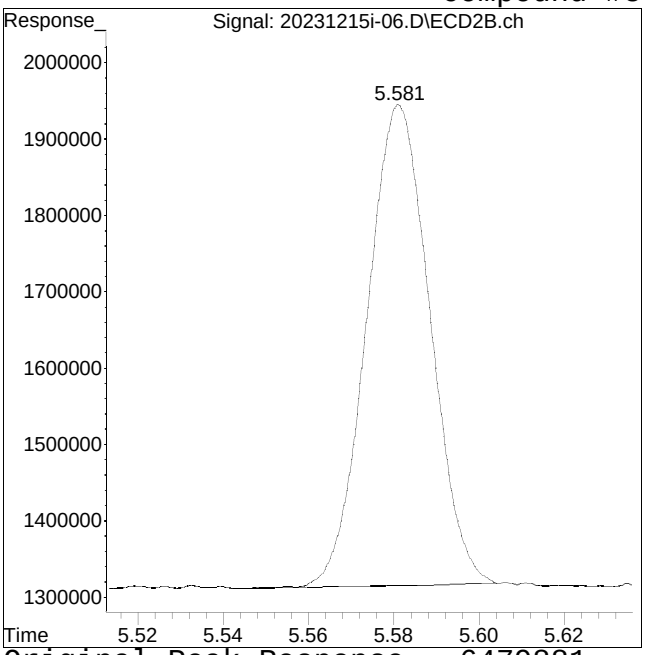
Manual Peak Response = 6626447 M4

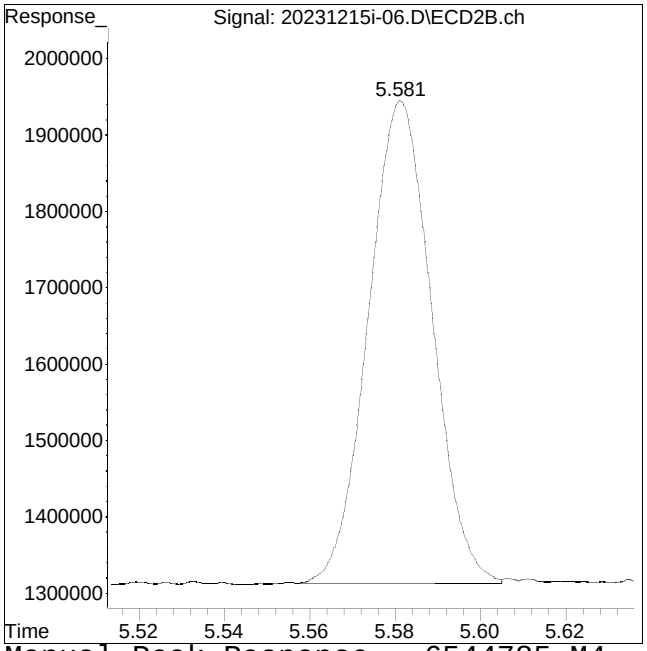
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2023\231215QMethod : pest20_2023_12_15_ugL_IC
Data File : 20231215i-06.D Operator : pest20:ejl
Date Inj'd : 12/15/2023 5:36 pm Instrument : PEST 20
Sample : il4pest,42e,,pp 11403 L0.0Quant Date : 12/18/2023 11:50 am

Compound #55: Dieldrin #2



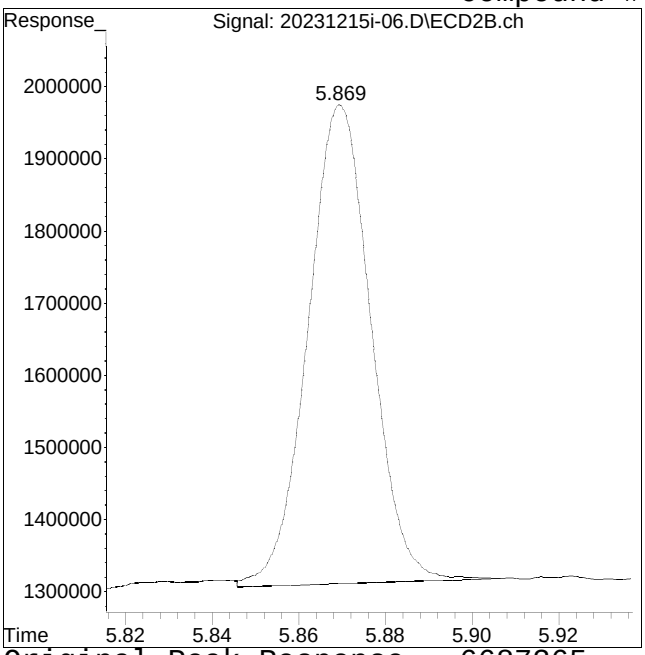


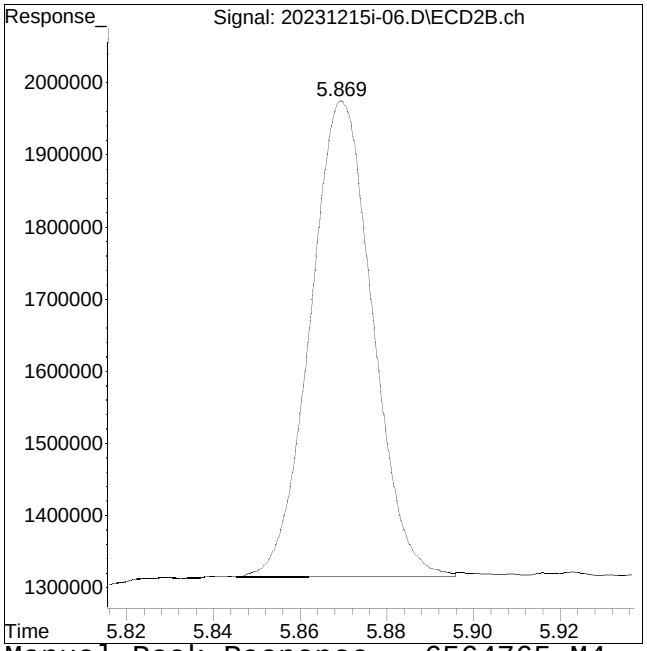
Original Peak Response = 6479881 Manual Peak Response = 6544785 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2023\231215QMethod : pest20_2023_12_15_ugL_IC
Data File : 20231215i-06.D Operator : pest20:ejl
Date Inj'd : 12/15/2023 5:36 pm Instrument : PEST 20
Sample : il4pest,42e,,pp 11403 L0.0Quant Date : 12/18/2023 11:50 am

Compound #56: Endrin #2



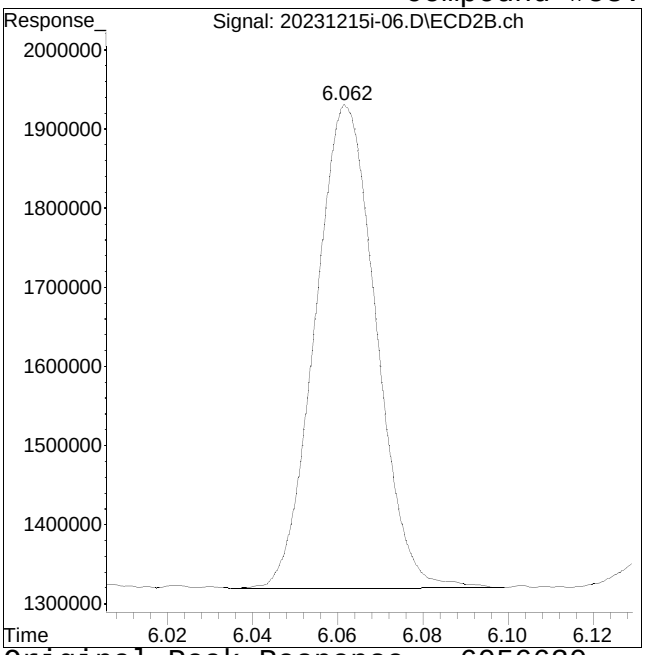


Original Peak Response = 6687365 Manual Peak Response = 6564765 M4
M4 = Poor automated baseline construction.

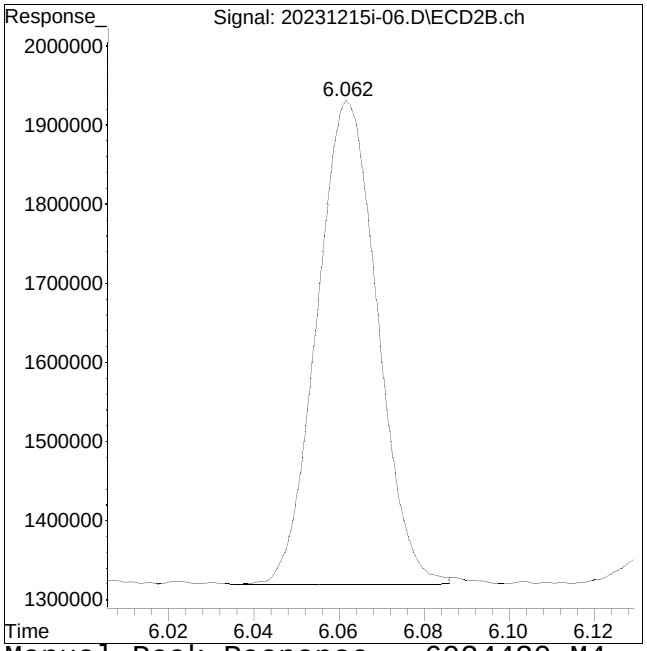
Manual Integration Report

Data Path : I:\PEST\Pest20\2023\231215QMethod : pest20_2023_12_15_ugL_IC
Data File : 20231215i-06.D Operator : pest20:ejl
Date Inj'd : 12/15/2023 5:36 pm Instrument : PEST 20
Sample : il4pest,42e,,pp 11403 L0.0Quant Date : 12/18/2023 11:50 am

Compound #58: Endosulfan II #2



Original Peak Response = 6056630



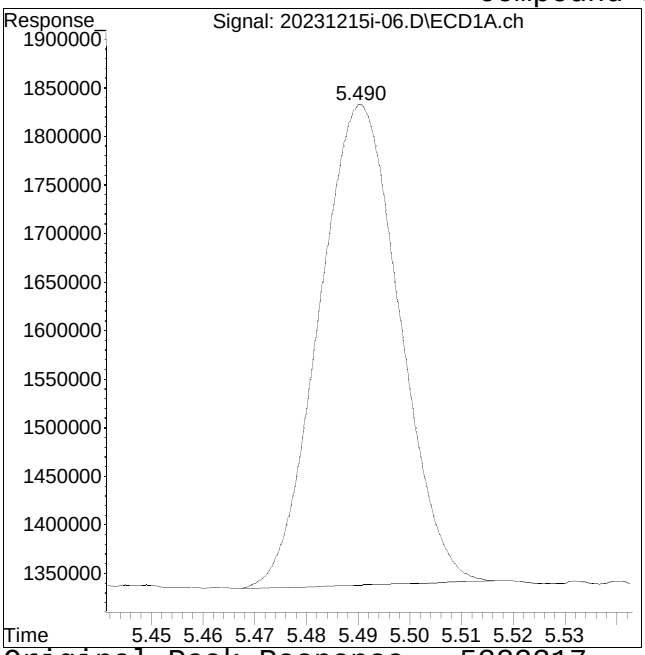
Manual Peak Response = 6024430 M4

M4 = Poor automated baseline construction.

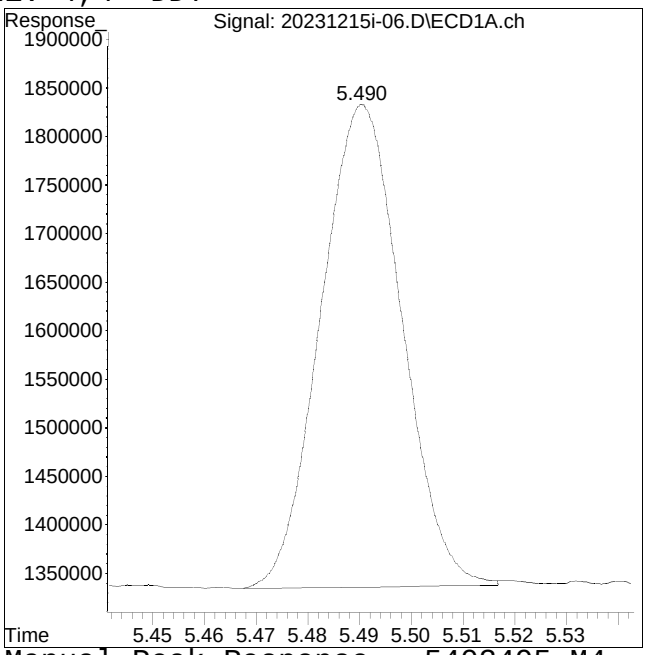
Manual Integration Report

Data Path : I:\PEST\Pest20\2023\231215QMethod : pest20_2023_12_15_ugL_IC
Data File : 20231215i-06.D Operator : pest20:ejl
Date Inj'd : 12/15/2023 5:36 pm Instrument : PEST 20
Sample : il4pest,42e,,pp 11403 L0.0Quant Date : 12/18/2023 11:50 am

Compound #21: 4,4'-DDT



Original Peak Response = 5333317



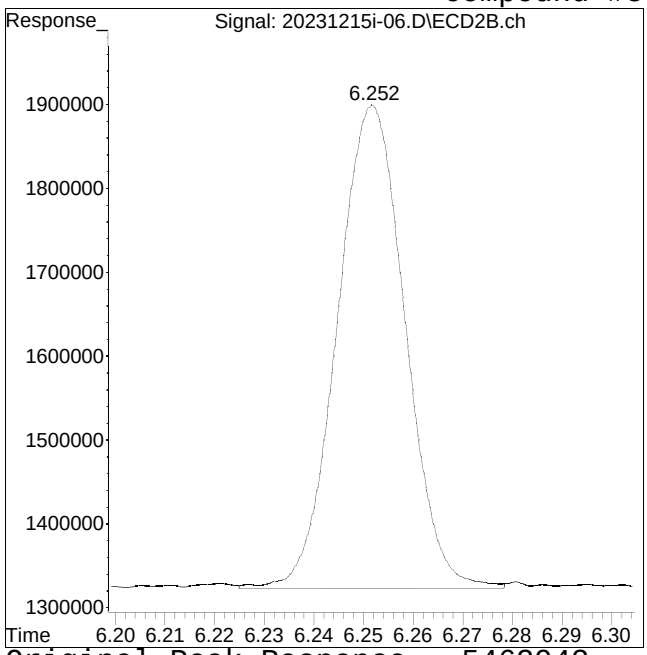
Manual Peak Response = 5403495 M4

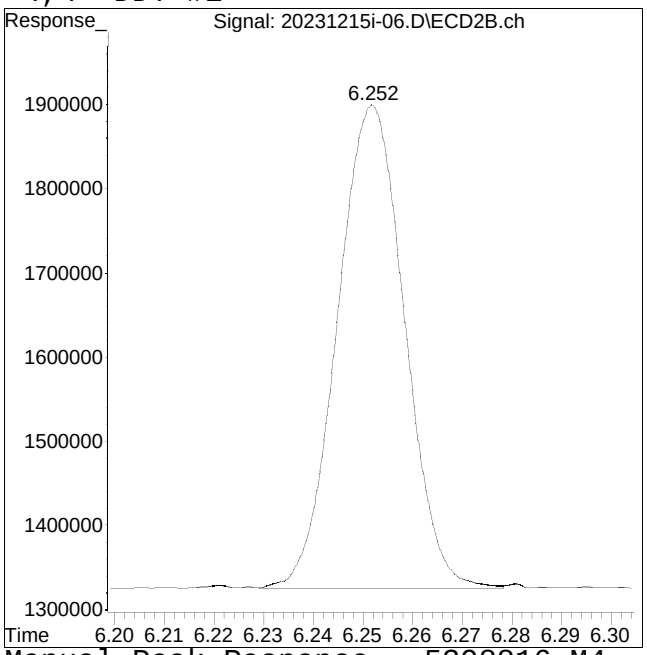
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2023\231215QMethod : pest20_2023_12_15_ugL_IC
Data File : 20231215i-06.D Operator : pest20:ejl
Date Inj'd : 12/15/2023 5:36 pm Instrument : PEST 20
Sample : il4pest,42e,,pp 11403 L0.0Quant Date : 12/18/2023 11:50 am

Compound #59: 4,4'-DDT #2



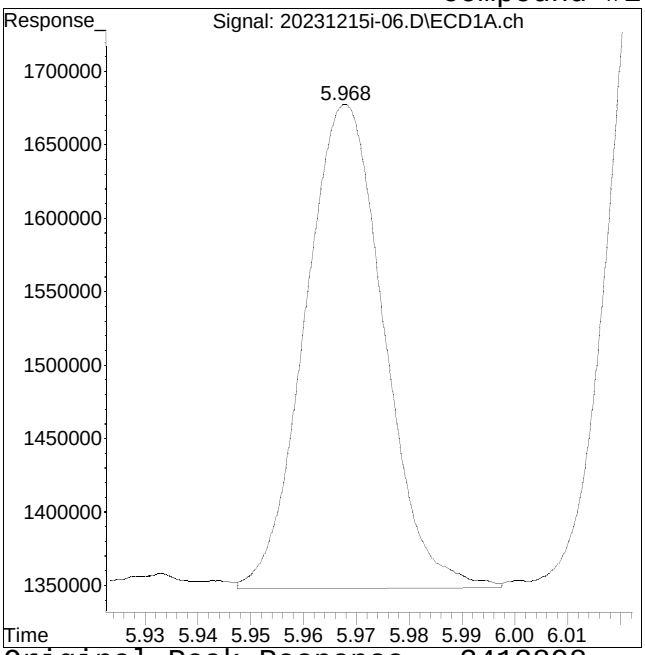


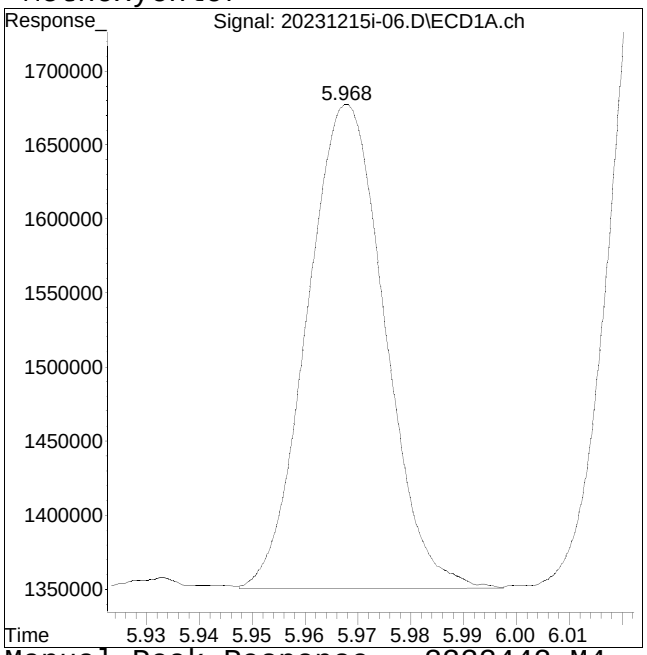
Original Peak Response = 5462942 Manual Peak Response = 5398816 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2023\231215QMethod : pest20_2023_12_15_ugL_IC
Data File : 20231215i-06.D Operator : pest20:ejl
Date Inj'd : 12/15/2023 5:36 pm Instrument : PEST 20
Sample : il4pest,42e,,pp 11403 L0.0Quant Date : 12/18/2023 11:50 am

Compound #23: Methoxychlor



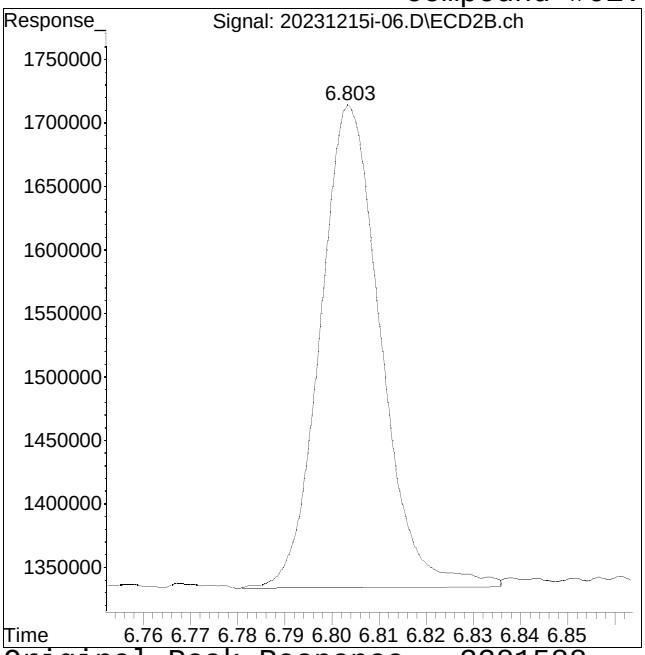


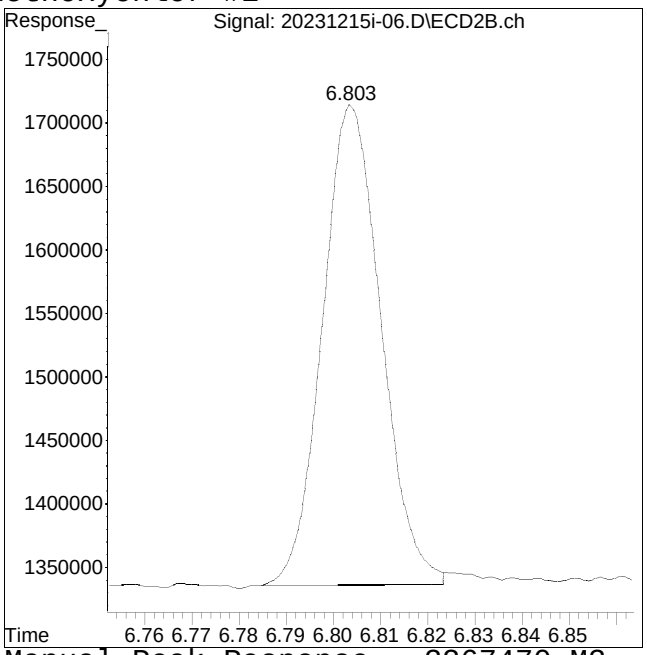
Original Peak Response = 3412898 Manual Peak Response = 3333442 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2023\231215QMethod : pest20_2023_12_15_ugL_IC
Data File : 20231215i-06.D Operator : pest20:ejl
Date Inj'd : 12/15/2023 5:36 pm Instrument : PEST 20
Sample : il4pest,42e,,pp 11403 L0.0Quant Date : 12/18/2023 11:50 am

Compound #61: Methoxychlor #2



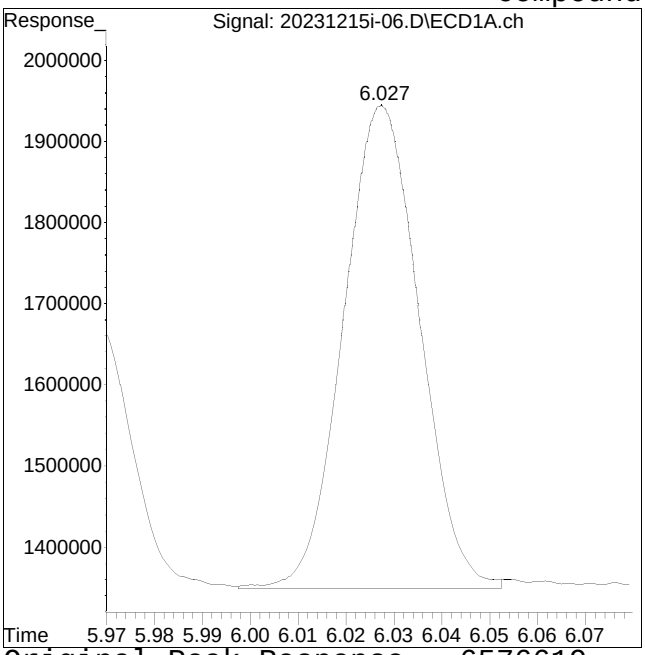


Original Peak Response = 3381588 Manual Peak Response = 3267470 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

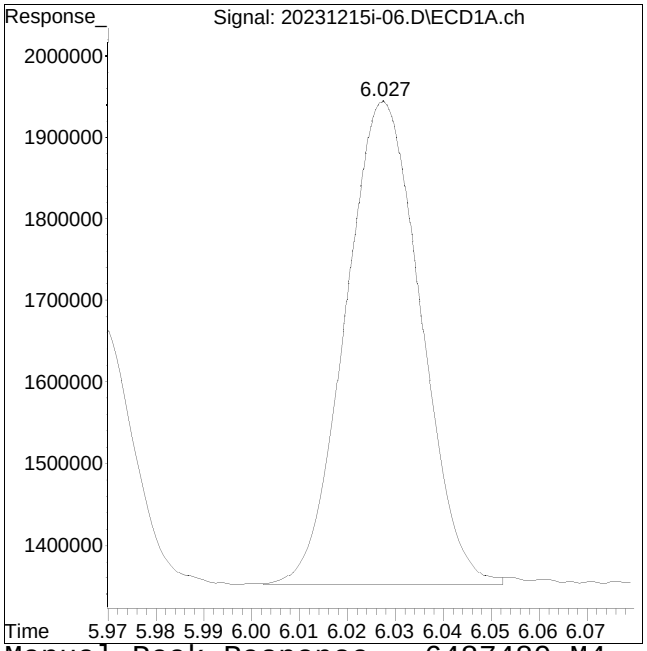
Manual Integration Report

Data Path : I:\PEST\Pest20\2023\231215QMethod : pest20_2023_12_15_ugL_IC
Data File : 20231215i-06.D Operator : pest20:ejl
Date Inj'd : 12/15/2023 5:36 pm Instrument : PEST 20
Sample : il4pest,42e,,pp 11403 L0.0Quant Date : 12/18/2023 11:50 am

Compound #24: Mirex



Original Peak Response = 6576619



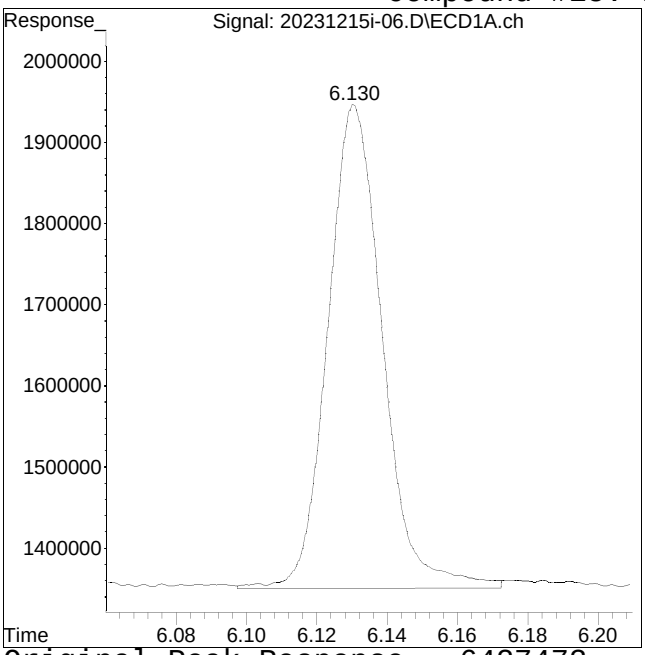
Manual Peak Response = 6487480 M4

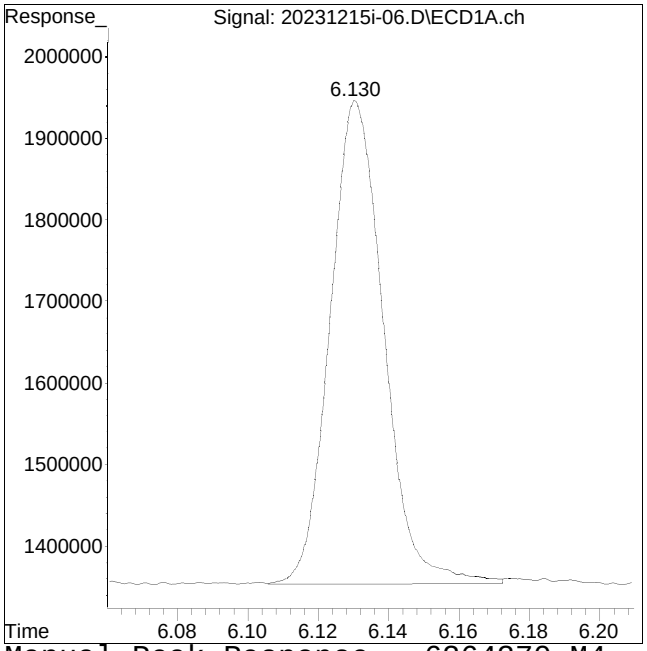
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2023\231215QMethod : pest20_2023_12_15_ugL_IC
Data File : 20231215i-06.D Operator : pest20:ejl
Date Inj'd : 12/15/2023 5:36 pm Instrument : PEST 20
Sample : il4pest,42e,,pp 11403 L0.0Quant Date : 12/18/2023 11:50 am

Compound #25: Endosulfan Sulfate



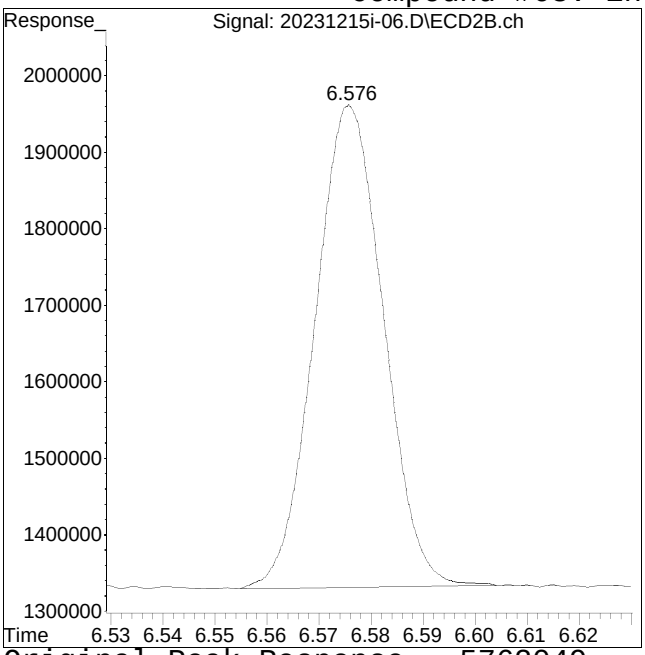


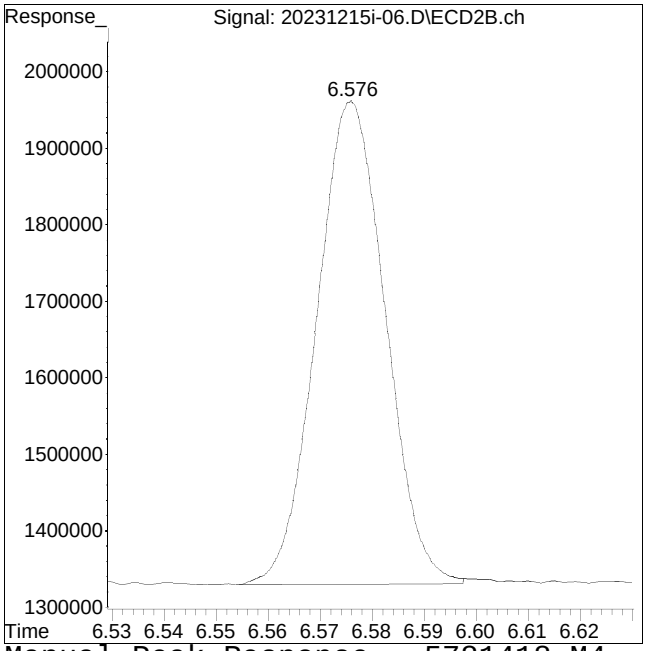
Original Peak Response = 6427473 Manual Peak Response = 6264370 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2023\231215QMethod : pest20_2023_12_15_ugL_IC
Data File : 20231215i-06.D Operator : pest20:ejl
Date Inj'd : 12/15/2023 5:36 pm Instrument : PEST 20
Sample : il4pest,42e,,pp 11403 L0.0Quant Date : 12/18/2023 11:50 am

Compound #63: Endosulfan Sulfate #2



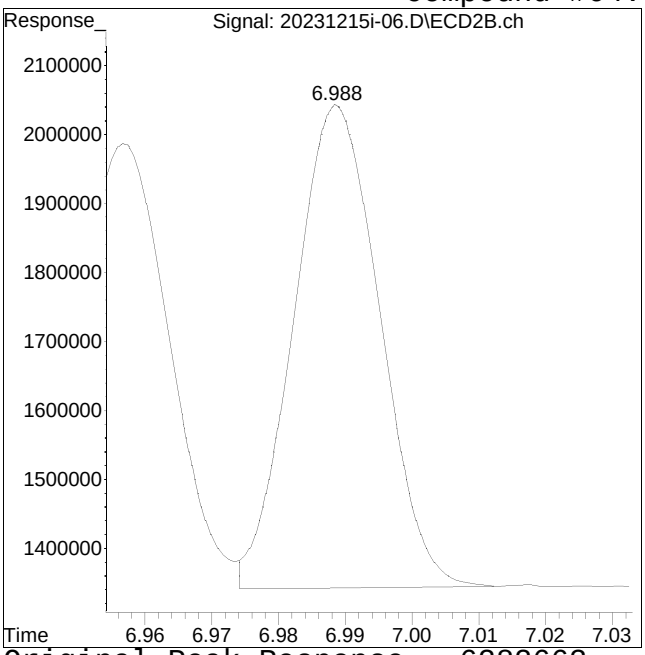


Original Peak Response = 5762049 Manual Peak Response = 5781418 M4
M4 = Poor automated baseline construction.

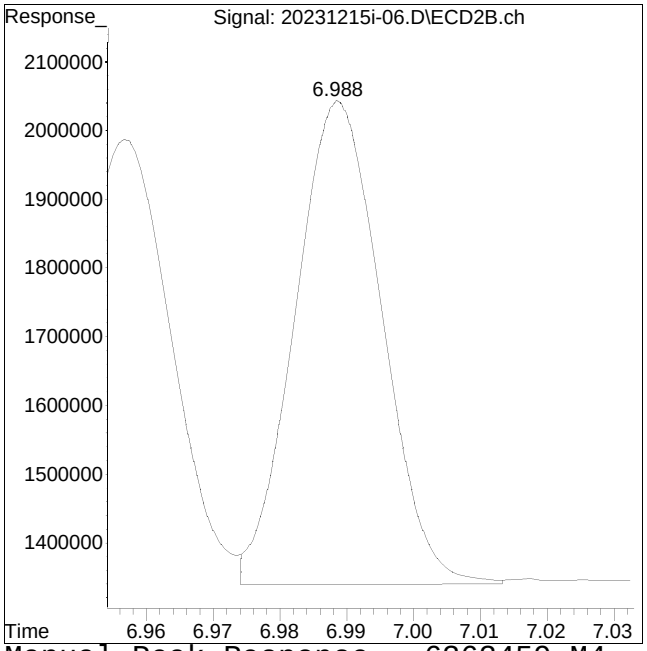
Manual Integration Report

Data Path : I:\PEST\Pest20\2023\231215QMethod : pest20_2023_12_15_ugL_IC
Data File : 20231215i-06.D Operator : pest20:ejl
Date Inj'd : 12/15/2023 5:36 pm Instrument : PEST 20
Sample : il4pest,42e,,pp 11403 L0.0Quant Date : 12/18/2023 11:50 am

Compound #64: Endrin Ketone #2



Original Peak Response = 6282663



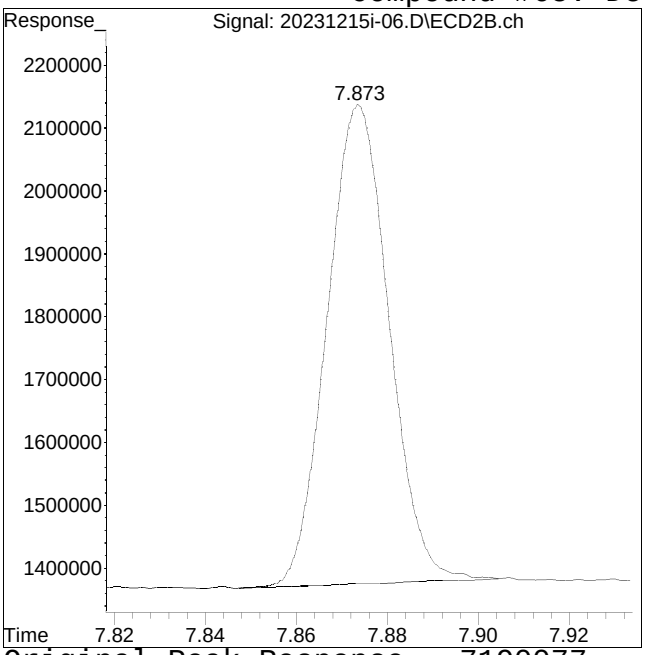
Manual Peak Response = 6363459 M4

M4 = Poor automated baseline construction.

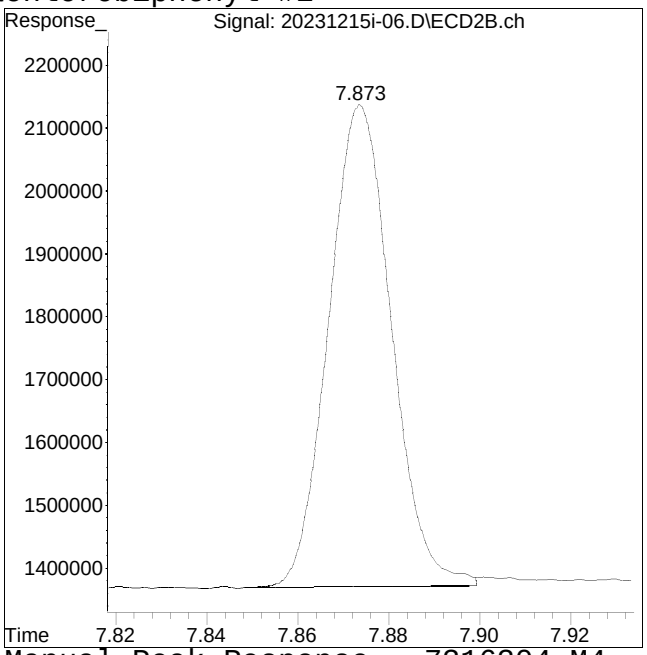
Manual Integration Report

Data Path : I:\PEST\Pest20\2023\231215QMethod : pest20_2023_12_15_ugL_IC
Data File : 20231215i-06.D Operator : pest20:ejl
Date Inj'd : 12/15/2023 5:36 pm Instrument : PEST 20
Sample : il4pest,42e,,pp 11403 L0.0Quant Date : 12/18/2023 11:50 am

Compound #65: Decachlorobiphenyl #2



Original Peak Response = 7190077



Manual Peak Response = 7316304 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest20\2023\231215ical\
Data File : 20231215i-07.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Dec 2023 05:48 pm
Operator : pest20:ejl
Sample : il5pest,42e,,pp 11402 L0.004
Misc : wg1865714,ical (Sig #1); ical (Sig #2)
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 18 11:50:26 2023
Quant Method : I:\PEST\Pest20\2023\231215ical\pest20_2023_12_15_ugL_ICAL.m
Quant Title : pest
QLast Update : Mon Dec 18 11:46:13 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	1.828	1.993	47795843	45572377	25.000	25.000
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	2.285	2.602	9378166	9343752	4.875	4.658
	Spiked Amount 50.000	Range 30 - 150		Recovery =		9.75%#	9.32%#
27) s	Decachlorobi	7.155	7.873	10537426	9302772	5.308	5.303M4
	Spiked Amount 50.000	Range 30 - 150		Recovery =		10.62%#	10.61%#
	Target Compounds						
3)	Hexachlorobe	2.543	2.981	10748298	10701418	5.035	5.111
4)	alpha-BHC	2.663	3.094	10617526	10553484	4.110	4.097
5)	gamma-BHC (l	2.898	3.419	9976026	10002112	4.317	4.326
6)	beta-BHC	2.967	3.495	5571563	5591110	5.152	5.008
7)	delta-BHC	3.110	3.790	9961790	9835377	4.218M4	4.149
8)	Heptachlor	3.289	3.860	9752266	9197601	4.720M4	4.691
9)	Aldrin	3.556	4.209	9887793	9356946	4.380	4.333
10)	Alachlor	3.700	4.086	1590591	1412999	4.659	4.616
11)	Chlorpyrifos	3.799	4.468	4910536	5113272	5.274	5.047
12)	Heptachlor E	4.151	4.871	9715539	9577530	4.813	4.718
13)	gamma-Chlord	4.283	5.086	8921686	8292608	4.691	4.584M4
14)	alpha-Chlord	4.427	5.246	10234421	9460858	4.728	4.646
15)	4,4'-DDE	4.533	5.429	9358226	8680064	4.300	4.212
16)	Endosulfan I	4.572	5.304	9150221	8542916	4.683	4.472
17)	Dieldrin	4.846	5.582	9099432	8604956	4.464M4	4.391
18)	Endrin	5.098	5.869	8874455	8525504	4.516	4.401M4
19)	4,4'-DDD	5.205	5.981	7078863	6775717	4.361	4.296
20)	Endosulfan I	5.333	6.063	8279592	7788565	4.727	4.551
21)	4,4'-DDT	5.489	6.252	6987198	6950743	4.461	4.473
22)	Endrin Aldeh	5.742	6.351	7011677	6559776	4.689	4.480M4
23)	Methoxychlor	5.967	6.804	4349309	4284388	5.063	4.992M4

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest20\2023\231215ical\
Data File : 20231215i-07.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Dec 2023 05:48 pm
Operator : pest20:ejl
Sample : il5pest,42e,,pp 11402 L0.004
Misc : wg1865714,ical (Sig #1); ical (Sig #2)
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 18 11:50:26 2023
Quant Method : I:\PEST\Pest20\2023\231215ical\pest20_2023_12_15_ugL_ICAL.m
Quant Title : pest
QLast Update : Mon Dec 18 11:46:13 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
24)	Mirex	6.027	6.957	8351455	7825171	5.480	5.418
25)	Endosulfan S	6.129	6.576	7964352	7514097	4.912M4	4.761M4
26)	Endrin Keton	6.356	6.989	8544255	8152241	4.818M4	4.643
29) l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

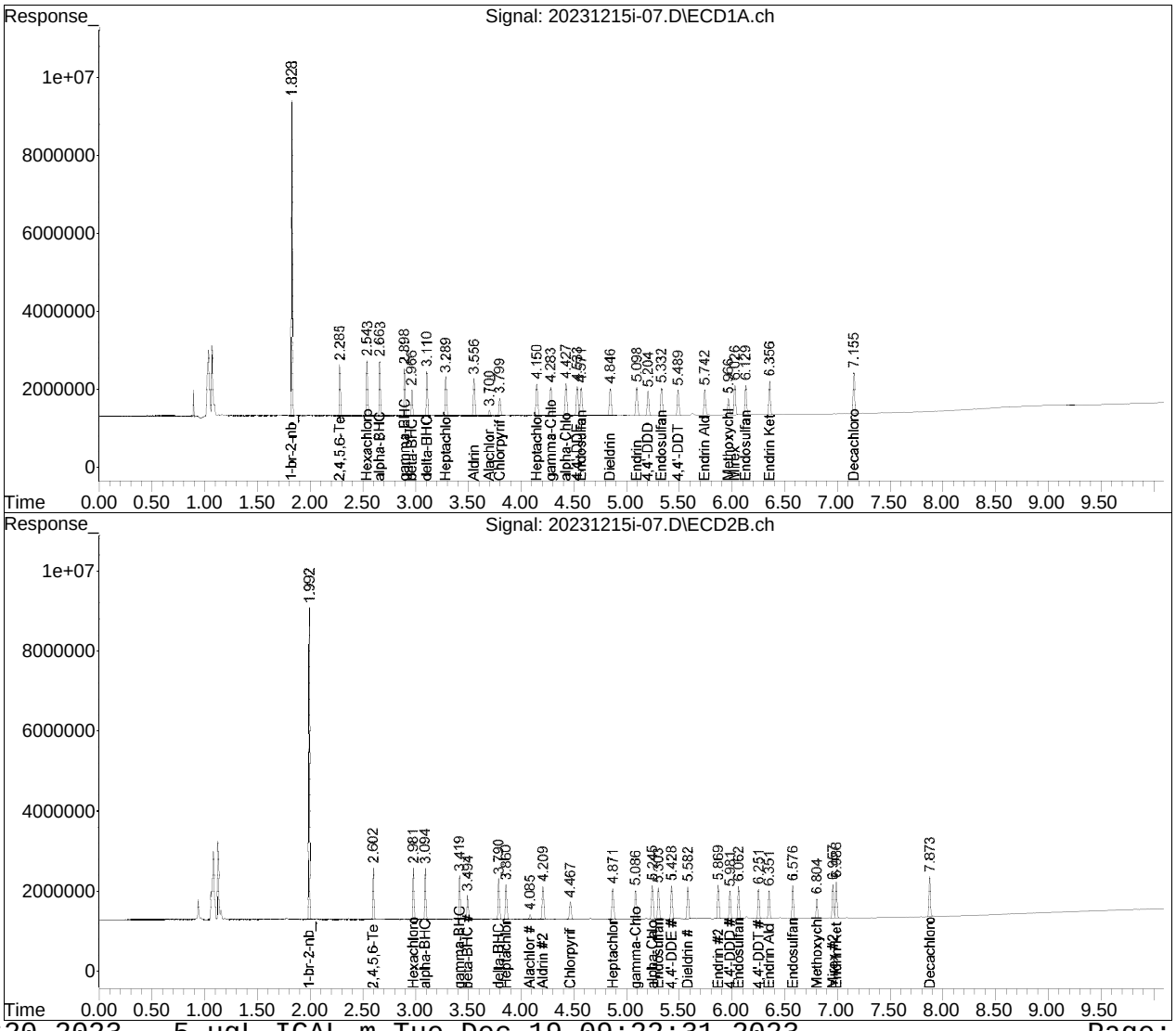
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest20\2023\231215ical\
Data File : 20231215i-07.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Dec 2023 05:48 pm
Operator : pest20:ejl
Sample : il5pest,42e,,pp 11402 L0.004
Misc : wg1865714,ical (Sig #1); ical (Sig #2)
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 18 11:50:26 2023
Quant Method : I:\PEST\Pest20\2023\231215ical\pest20_2023_12_15_ugL_ICAL.m
Quant Title : pest
QLast Update : Mon Dec 18 11:46:13 2023
Response via : Initial Calibration
Integrator: ChemStation

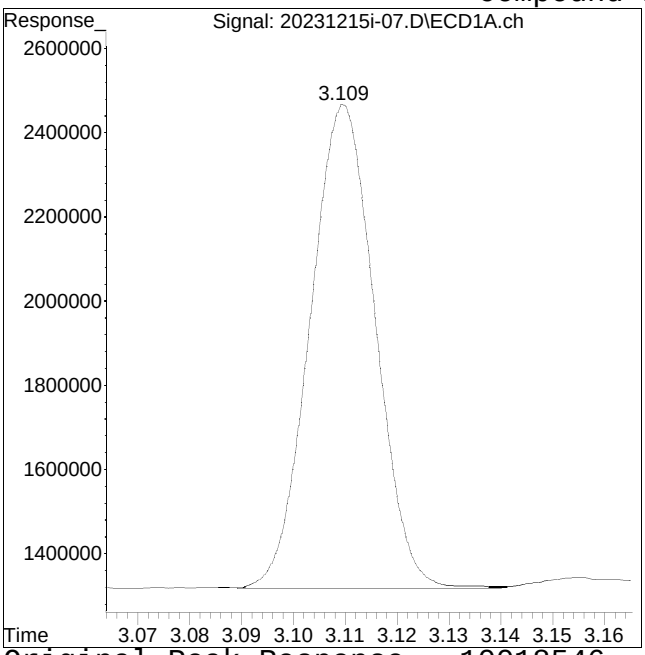
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

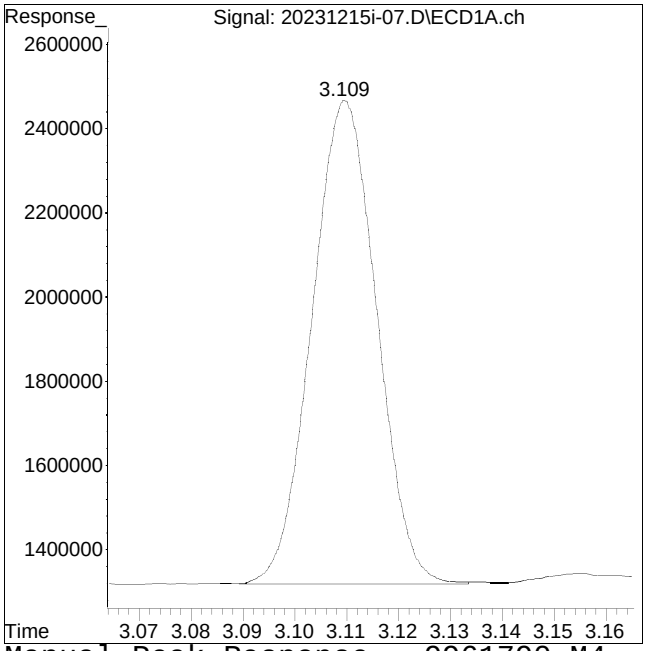


Manual Integration Report

Data Path : I:\PEST\Pest20\2023\231215QMethod : pest20_2023_12_15_ugL_IC
Data File : 20231215i-07.D Operator : pest20:ejl
Date Inj'd : 12/15/2023 5:48 pm Instrument : PEST 20
Sample : il5pest,42e,,pp 11402 L0.0Quant Date : 12/18/2023 11:46 am

Compound #7: delta-BHC



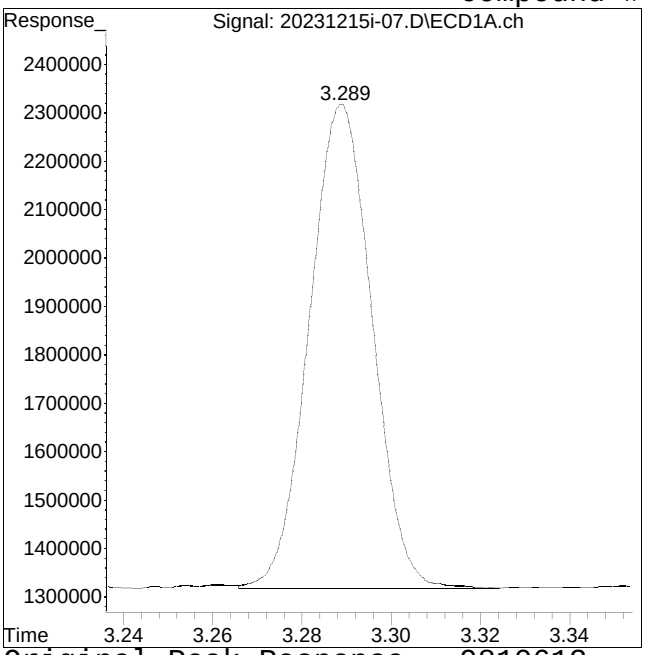


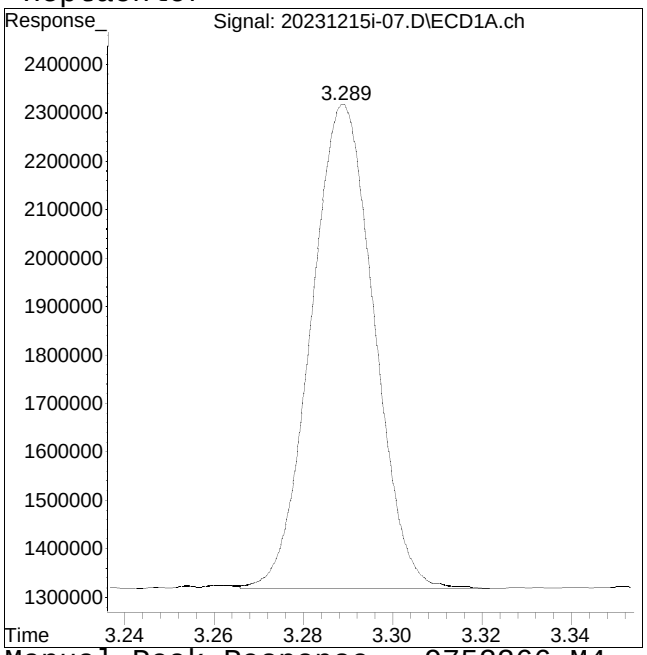
Original Peak Response = 10018546 Manual Peak Response = 9961790 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2023\231215QMethod : pest20_2023_12_15_ugL_IC
Data File : 20231215i-07.D Operator : pest20:ejl
Date Inj'd : 12/15/2023 5:48 pm Instrument : PEST 20
Sample : il5pest,42e,,pp 11402 L0.0Quant Date : 12/18/2023 11:46 am

Compound #8: Heptachlor



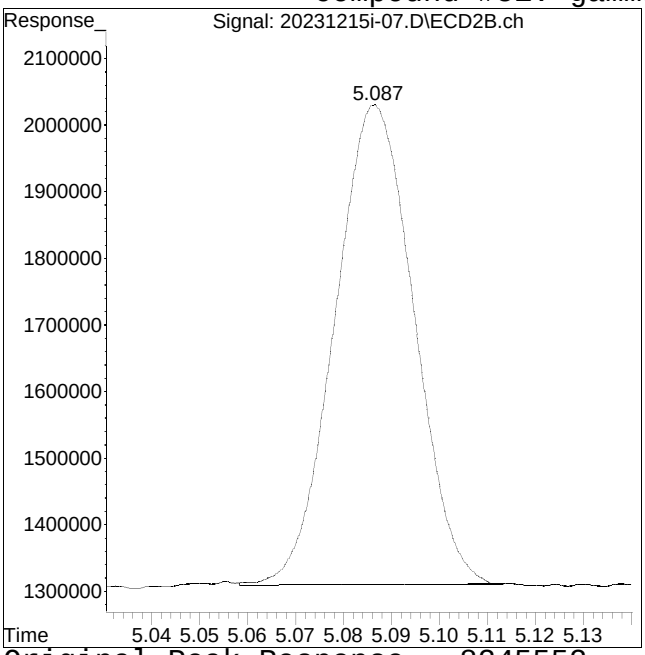


Original Peak Response = 9810613 Manual Peak Response = 9752266 M4
M4 = Poor automated baseline construction.

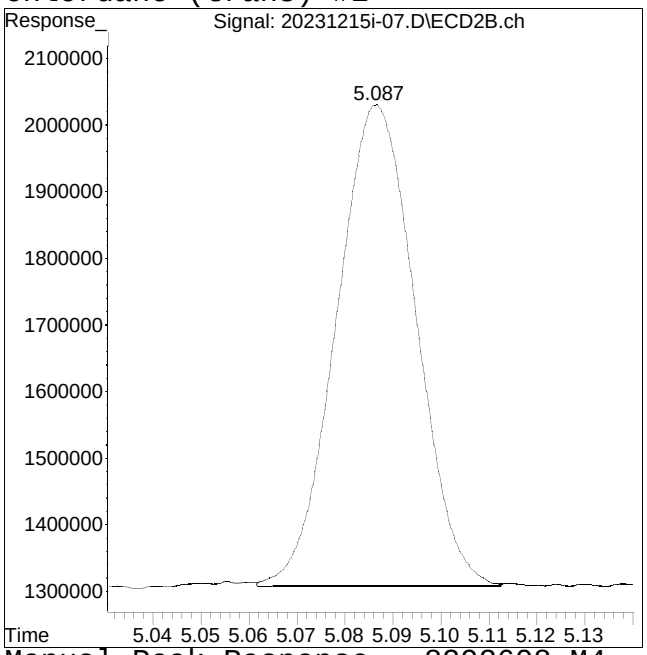
Manual Integration Report

Data Path : I:\PEST\Pest20\2023\231215QMethod : pest20_2023_12_15_ugL_IC
Data File : 20231215i-07.D Operator : pest20:ejl
Date Inj'd : 12/15/2023 5:48 pm Instrument : PEST 20
Sample : il5pest,42e,,pp 11402 L0.0Quant Date : 12/18/2023 11:46 am

Compound #51: gamma-Chlordane (trans) #2



Original Peak Response = 8245552



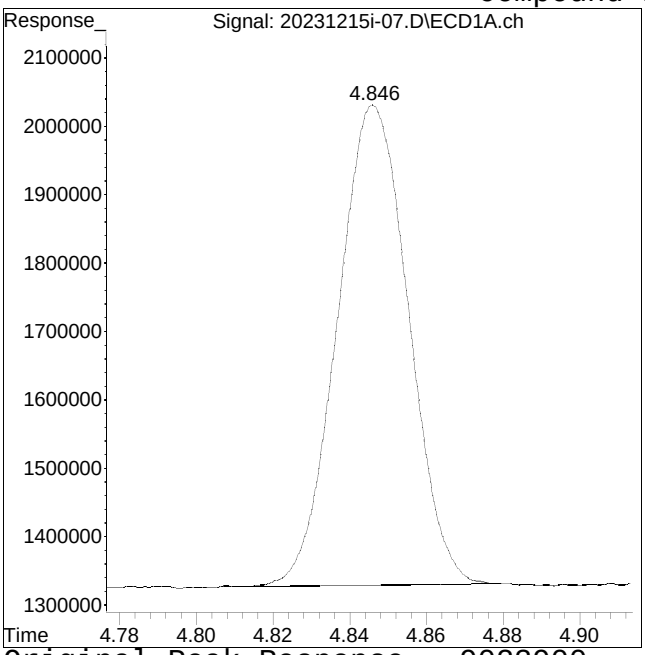
Manual Peak Response = 8292608 M4

M4 = Poor automated baseline construction.

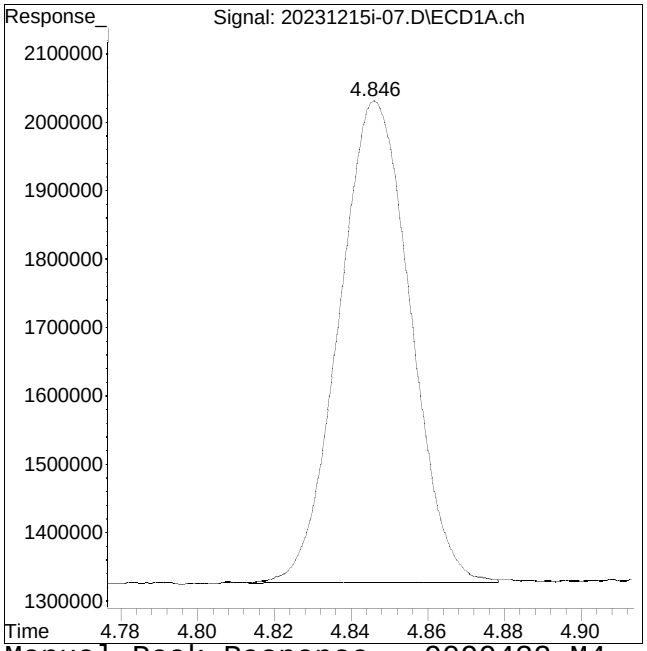
Manual Integration Report

Data Path : I:\PEST\Pest20\2023\231215QMethod : pest20_2023_12_15_ugL_IC
Data File : 20231215i-07.D Operator : pest20:ejl
Date Inj'd : 12/15/2023 5:48 pm Instrument : PEST 20
Sample : il5pest,42e,,pp 11402 L0.0Quant Date : 12/18/2023 11:46 am

Compound #17: Dieldrin



Original Peak Response = 9023900



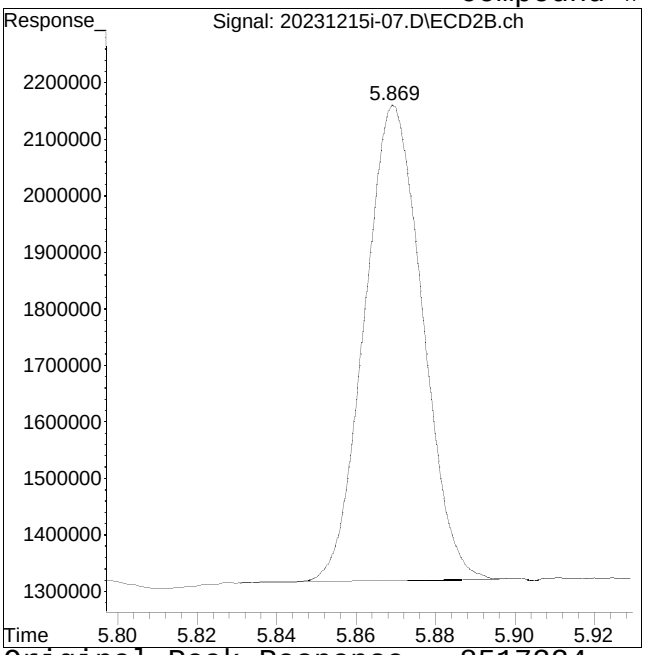
Manual Peak Response = 9099432 M4

M4 = Poor automated baseline construction.

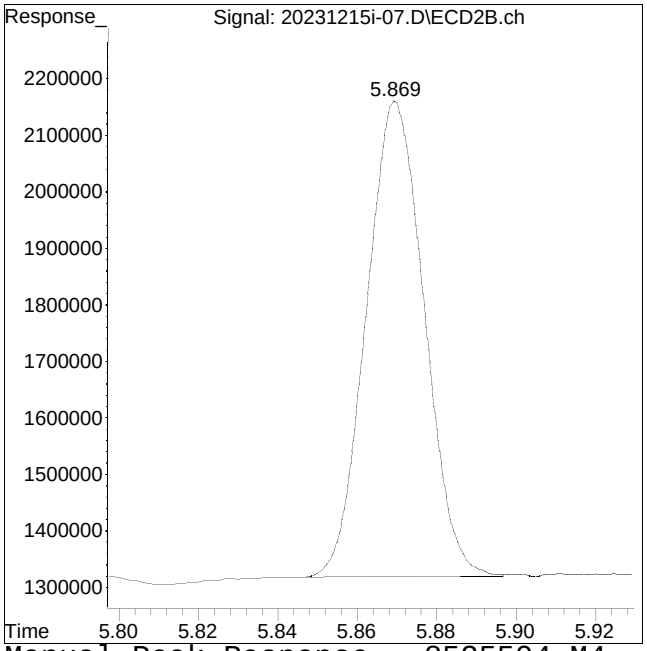
Manual Integration Report

Data Path : I:\PEST\Pest20\2023\231215QMethod : pest20_2023_12_15_ugL_IC
Data File : 20231215i-07.D Operator : pest20:ejl
Date Inj'd : 12/15/2023 5:48 pm Instrument : PEST 20
Sample : il5pest,42e,,pp 11402 L0.0Quant Date : 12/18/2023 11:46 am

Compound #56: Endrin #2



Original Peak Response = 8517324



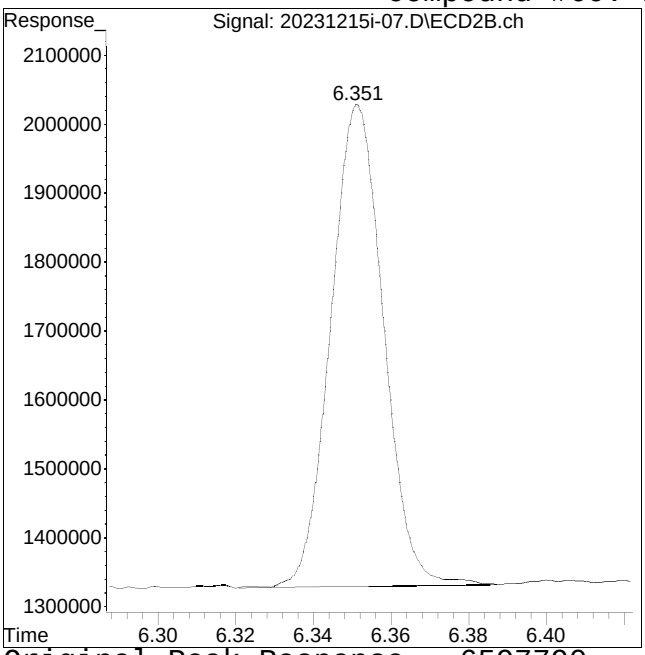
Manual Peak Response = 8525504 M4

M4 = Poor automated baseline construction.

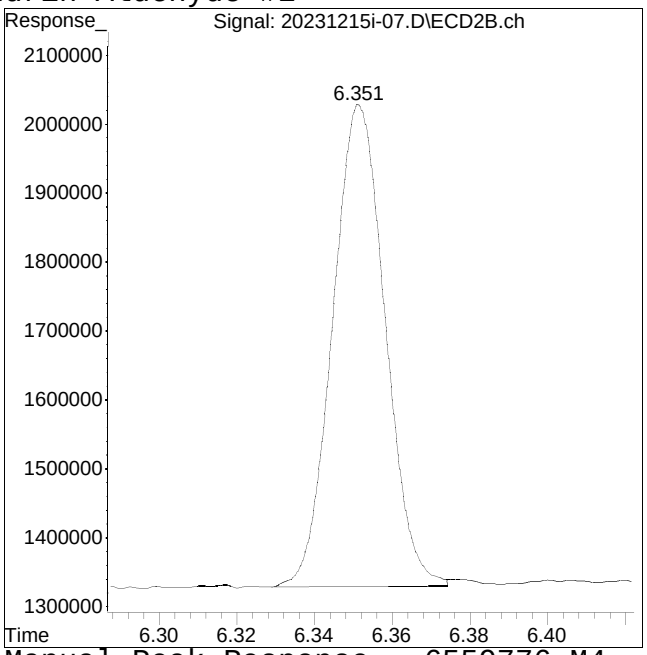
Manual Integration Report

Data Path : I:\PEST\Pest20\2023\231215QMethod : pest20_2023_12_15_ugL_IC
Data File : 20231215i-07.D Operator : pest20:ejl
Date Inj'd : 12/15/2023 5:48 pm Instrument : PEST 20
Sample : il5pest,42e,,pp 11402 L0.0Quant Date : 12/18/2023 11:46 am

Compound #60: Endrin Aldehyde #2



Original Peak Response = 6597790



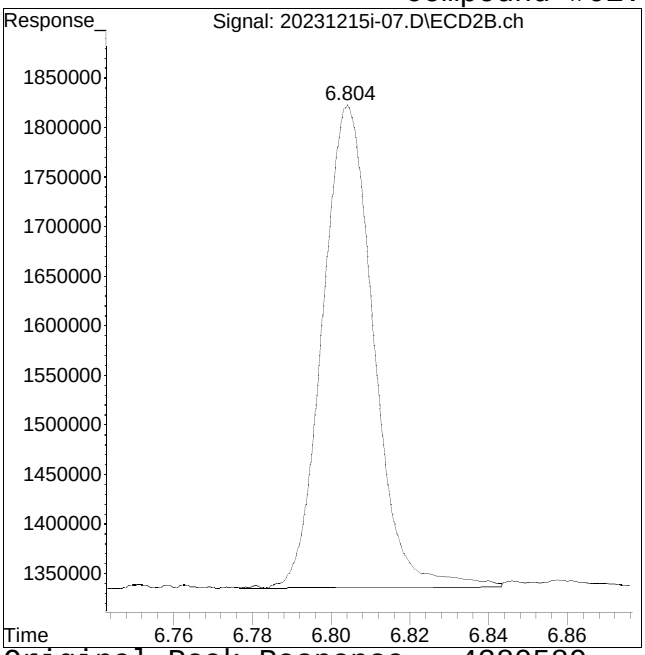
Manual Peak Response = 6559776 M4

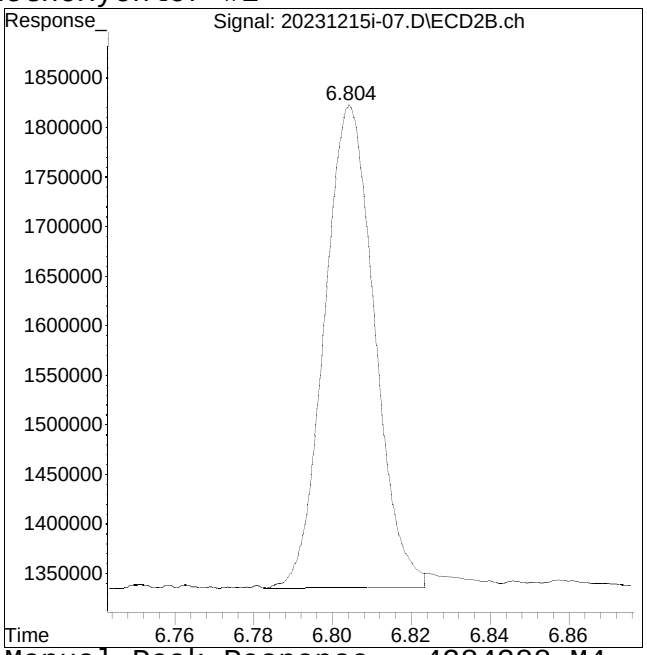
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2023\231215QMethod : pest20_2023_12_15_ugL_IC
Data File : 20231215i-07.D Operator : pest20:ejl
Date Inj'd : 12/15/2023 5:48 pm Instrument : PEST 20
Sample : il5pest,42e,,pp 11402 L0.0Quant Date : 12/18/2023 11:46 am

Compound #61: Methoxychlor #2



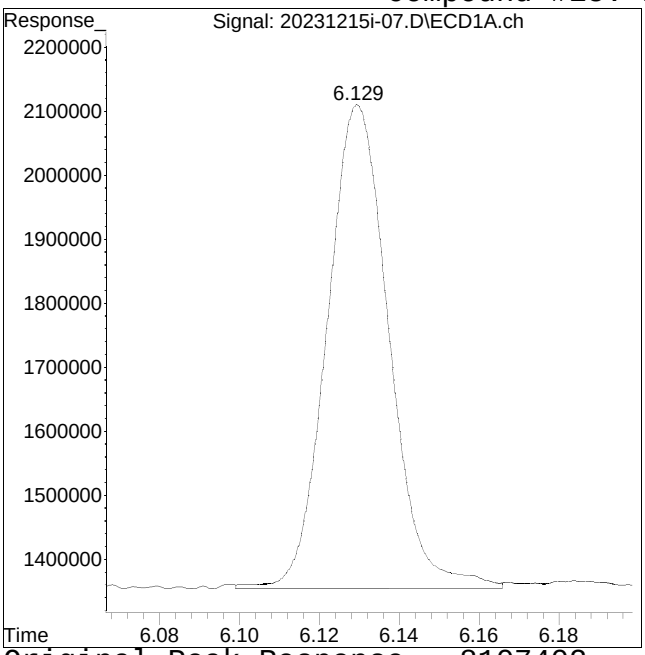


Original Peak Response = 4380589 Manual Peak Response = 4284388 M4
M4 = Poor automated baseline construction.

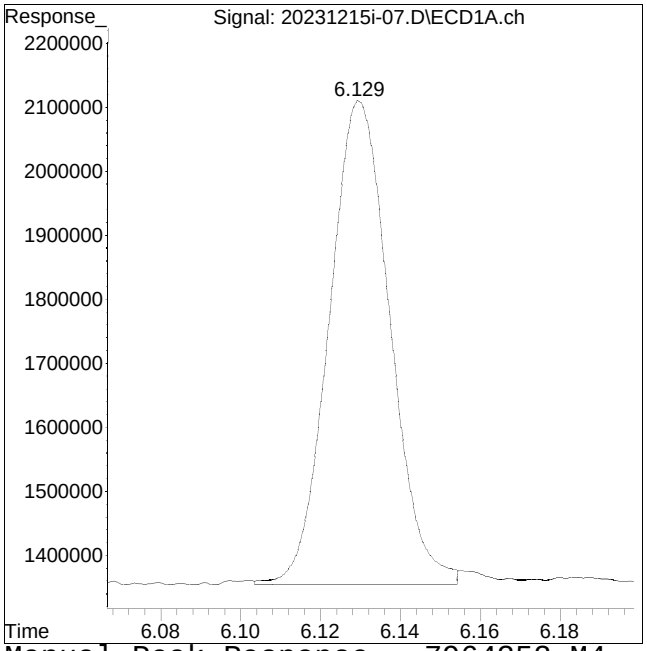
Manual Integration Report

Data Path : I:\PEST\Pest20\2023\231215QMethod : pest20_2023_12_15_ugL_IC
Data File : 20231215i-07.D Operator : pest20:ejl
Date Inj'd : 12/15/2023 5:48 pm Instrument : PEST 20
Sample : il5pest,42e,,pp 11402 L0.0Quant Date : 12/18/2023 11:46 am

Compound #25: Endosulfan Sulfate



Original Peak Response = 8107402



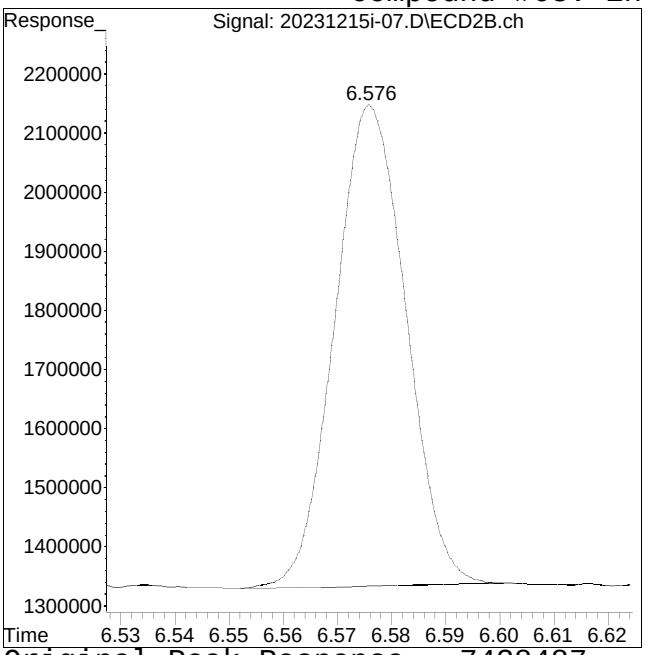
Manual Peak Response = 7964352 M4

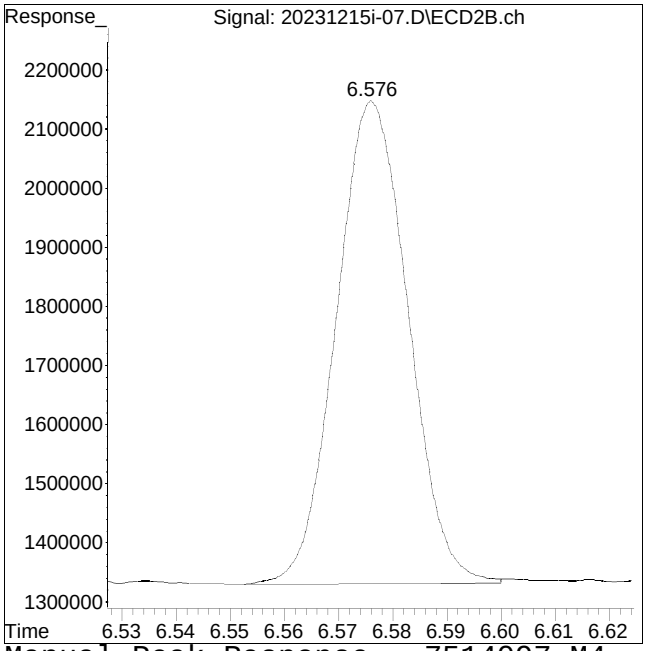
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2023\231215QMethod : pest20_2023_12_15_ugL_IC
Data File : 20231215i-07.D Operator : pest20:ejl
Date Inj'd : 12/15/2023 5:48 pm Instrument : PEST 20
Sample : il5pest,42e,,pp 11402 L0.0Quant Date : 12/18/2023 11:46 am

Compound #63: Endosulfan Sulfate #2



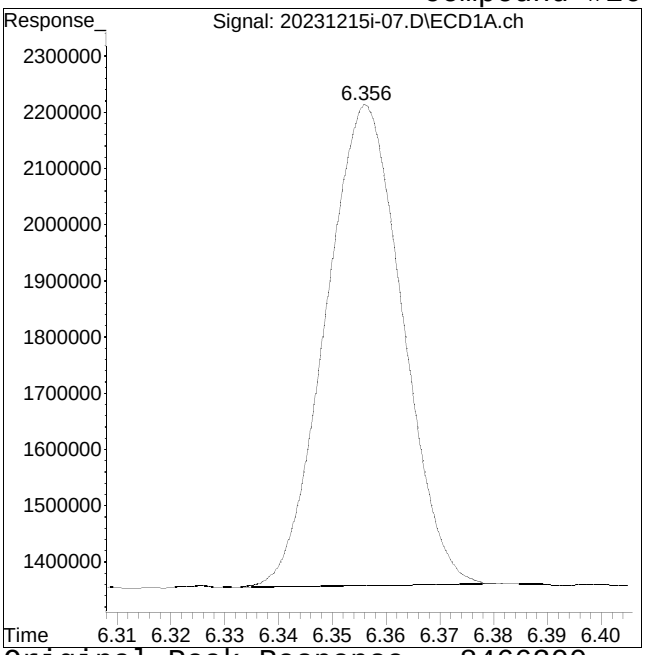


Original Peak Response = 7438487 Manual Peak Response = 7514097 M4
M4 = Poor automated baseline construction.

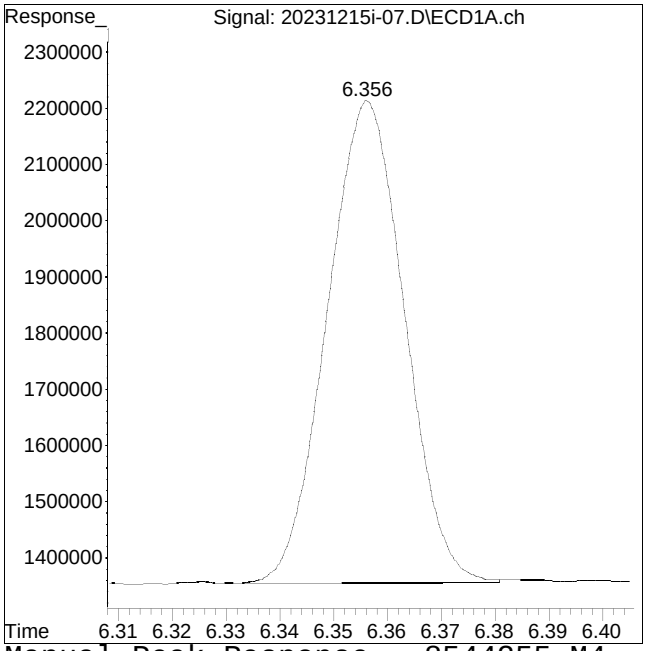
Manual Integration Report

Data Path : I:\PEST\Pest20\2023\231215QMethod : pest20_2023_12_15_ugL_IC
Data File : 20231215i-07.D Operator : pest20:ejl
Date Inj'd : 12/15/2023 5:48 pm Instrument : PEST 20
Sample : il5pest,42e,,pp 11402 L0.0Quant Date : 12/18/2023 11:46 am

Compound #26: Endrin Ketone



Original Peak Response = 8466300



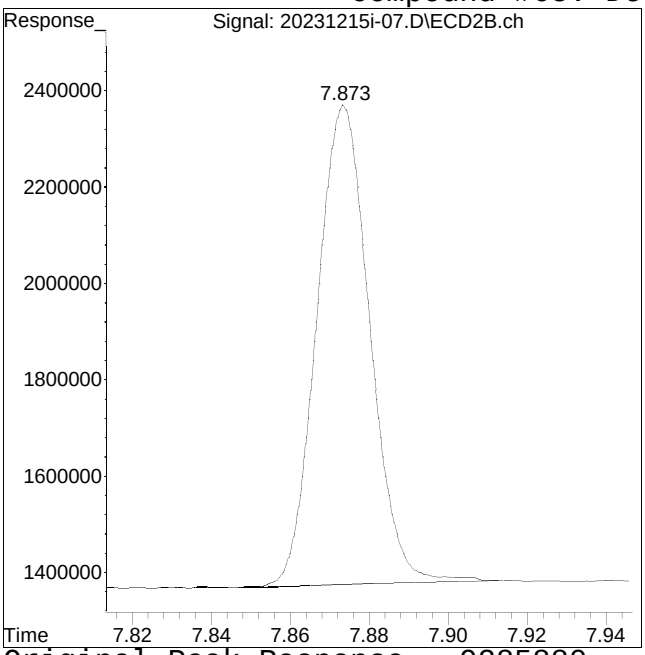
Manual Peak Response = 8544255 M4

M4 = Poor automated baseline construction.

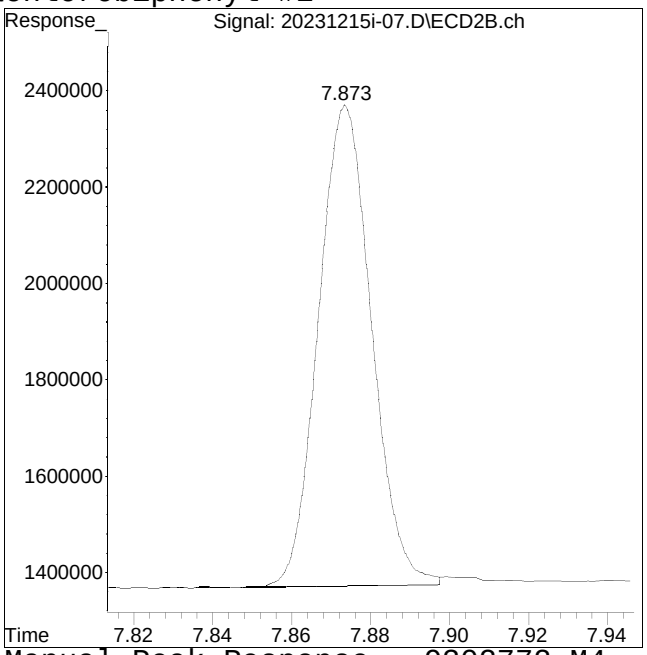
Manual Integration Report

Data Path : I:\PEST\Pest20\2023\231215QMethod : pest20_2023_12_15_ugL_IC
Data File : 20231215i-07.D Operator : pest20:ejl
Date Inj'd : 12/15/2023 5:48 pm Instrument : PEST 20
Sample : il5pest,42e,,pp 11402 L0.0Quant Date : 12/18/2023 11:46 am

Compound #65: Decachlorobiphenyl #2



Original Peak Response = 9285880



Manual Peak Response = 9302772 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest20\2023\231215ical\
Data File : 20231215i-08.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Dec 2023 06:01 pm
Operator : pest20:ejl
Sample : il7pest,42e,,pp 11401 L0.01
Misc : wg1865714,ical (Sig #1); ical (Sig #2)
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 18 11:45:53 2023
Quant Method : I:\PEST\Pest20\2023\231215ical\pest20_2023_12_15_ugL_ICAL.m
Quant Title : pest
QLast Update : Mon Dec 18 11:41:38 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	1.829	1.992	46418953	44248676	25.000	25.000
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	2.285	2.602	20580612	21582045	11.302	11.387M4
	Spiked Amount 50.000	Range 30 - 150		Recovery =		22.60%#	22.77%#
27) s	Decachlorobi	7.155	7.871	22955951	20513329	12.504	12.692
	Spiked Amount 50.000	Range 30 - 150		Recovery =		25.01%#	25.38%#
	Target Compounds						
3)	Hexachlorobe	2.544	2.981	23823957	23638729	11.937	12.121
4)	alpha-BHC	2.664	3.094	24877320	25045840	9.895	10.017
5)	gamma-BHC (l	2.899	3.419	23030231	23301336	10.330	10.480
6)	beta-BHC	2.967	3.495	12335280	12614507	12.281	12.133
7)	delta-BHC	3.111	3.791	23105374	23272711	10.091	10.139
8)	Heptachlor	3.290	3.860	21768093	20772287	11.082	11.164
9)	Aldrin	3.557	4.209	22613077	21703907	10.396	10.444
10)	Alachlor	3.702	4.086	3847442	3329702	12.260	11.670
11)	Chlorpyrifos	3.800	4.468	11058118	11817422	13.211	12.878M4
12)	Heptachlor E	4.151	4.872	21583883	21423203	11.296	11.110
13)	gamma-Chlord	4.284	5.087	19914875	19050895	10.998	11.081M3
14)	alpha-Chlord	4.428	5.246	23169579	21529139	11.308	11.138
15)	4,4'-DDE	4.533	5.428	21738519	20515999	10.359M4	10.320M4
16)	Endosulfan I	4.572	5.304	20775042	20015481	11.214	11.009
17)	Dieldrin	4.847	5.582	20877211	19797516	10.690M4	10.511M4
18)	Endrin	5.098	5.870	20294889	19752864	10.805	10.635
19)	4,4'-DDD	5.205	5.981	16406819	15901348	10.514M4	10.484
20)	Endosulfan I	5.332	6.063	18720839	18020527	11.289M4	11.079
21)	4,4'-DDT	5.489	6.252	16235614	16019328	10.854	10.784M3

Data Path : I:\PEST\Pest20\2023\231215ical\
Data File : 20231215i-08.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Dec 2023 06:01 pm
Operator : pest20:ejl
Sample : il7pest,42e,,pp 11401 L0.01
Misc : wg1865714,ical (Sig #1); ical (Sig #2)
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 18 11:45:53 2023
Quant Method : I:\PEST\Pest20\2023\231215ical\pest20_2023_12_15_ugL_ICAL.m
Quant Title : pest
QLast Update : Mon Dec 18 11:41:38 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
22)	Endrin Aldeh	5.743	6.351	15756518	15011703	11.085	10.707M4
23)	Methoxychlor	5.966	6.804	9916554	9786978	12.475M4	12.280M4
24)	Mirex	6.026	6.956	17985376	17072477	12.842M4	12.873M4
25)	Endosulfan S	6.129	6.576	17849393	16995377	11.725M4	11.403M4
26)	Endrin Keton	6.356	6.988	19155943	18625390	11.443	11.185M4
29) l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

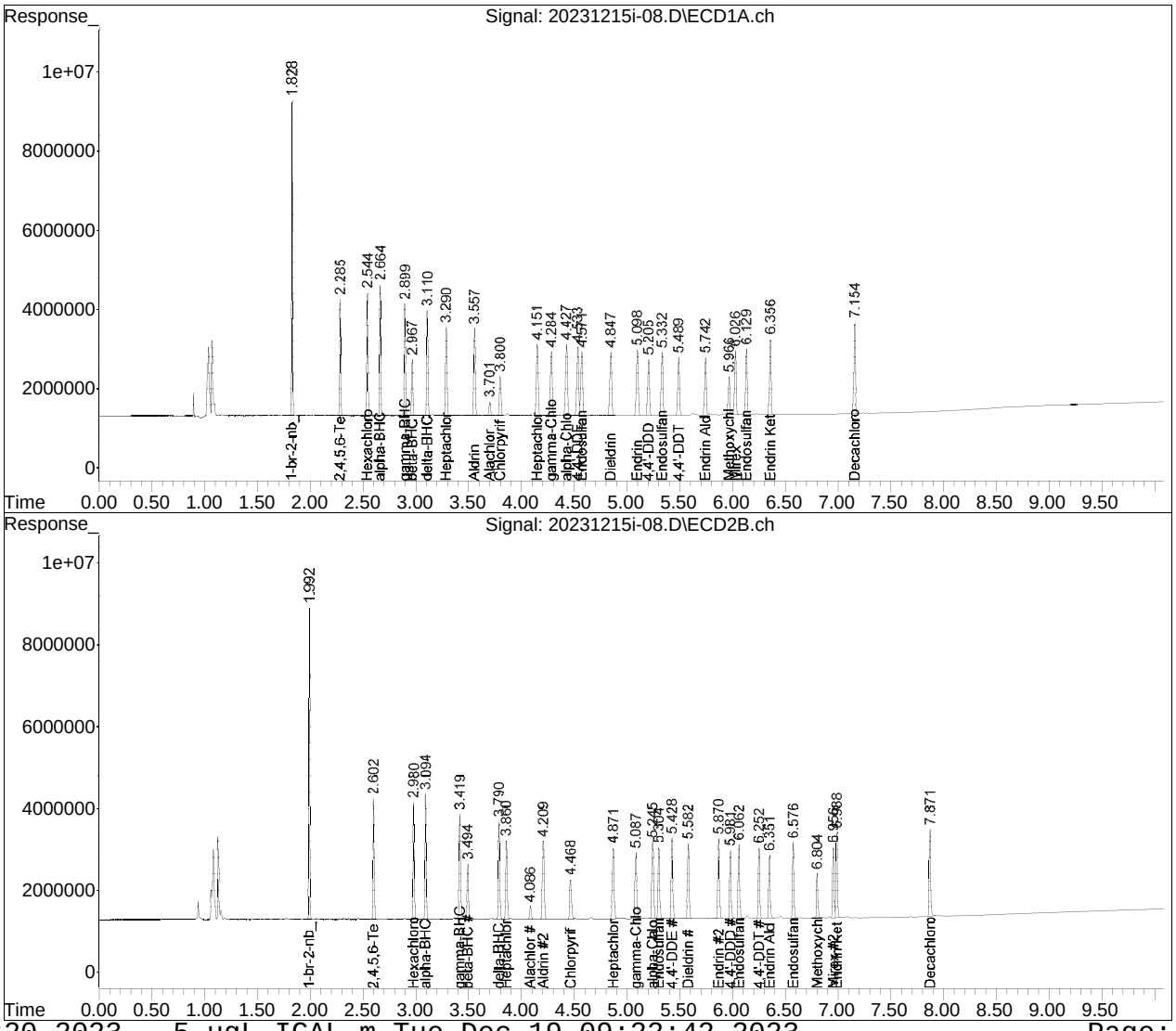
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest20\2023\231215ical\
Data File : 20231215i-08.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Dec 2023 06:01 pm
Operator : pest20:ejl
Sample : il7pest,42e,,pp 11401 L0.01
Misc : wg1865714,ical (Sig #1); ical (Sig #2)
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 18 11:45:53 2023
Quant Method : I:\PEST\Pest20\2023\231215ical\pest20_2023_12_15_ugL_ICAL.m
Quant Title : pest
QLast Update : Mon Dec 18 11:41:38 2023
Response via : Initial Calibration
Integrator: ChemStation

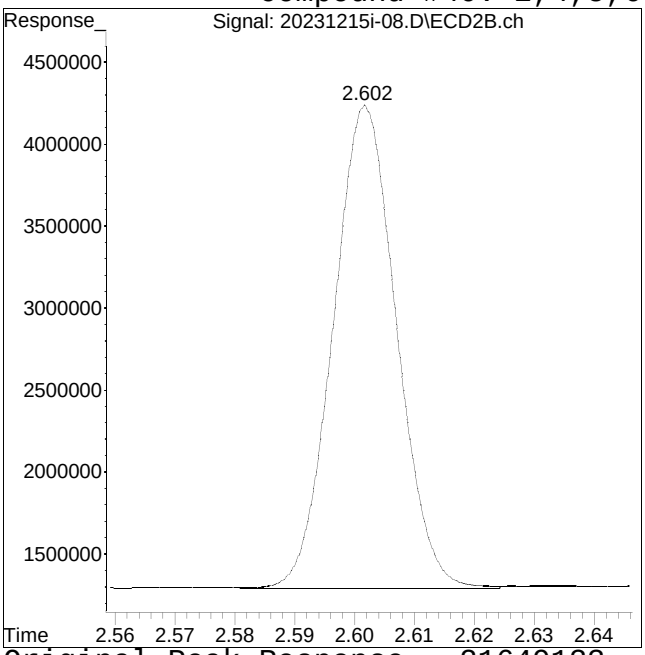
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



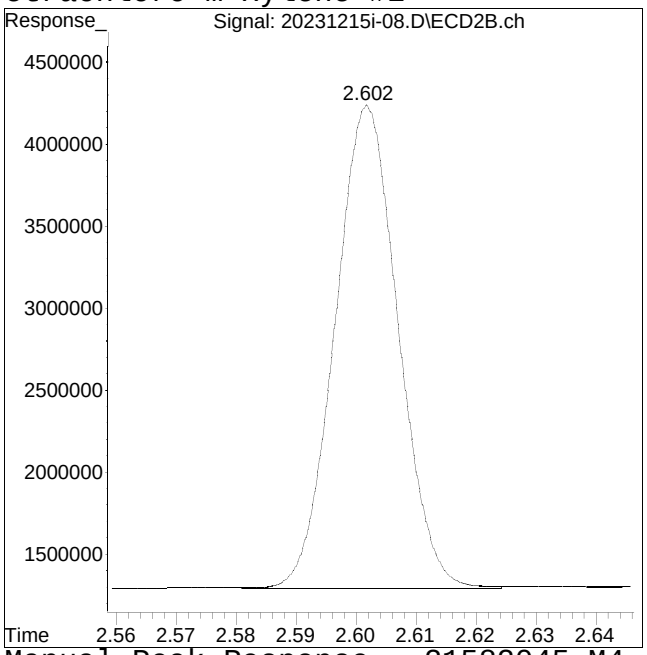
Manual Integration Report

Data Path : I:\PEST\Pest20\2023\231215QMethod : pest20_2023_12_15_ugL_IC
Data File : 20231215i-08.D Operator : pest20:ejl
Date Inj'd : 12/15/2023 6:01 pm Instrument : PEST 20
Sample : il7pest,42e,,pp 11401 L0.0Quant Date : 12/18/2023 11:42 am

Compound #40: 2,4,5,6-Tetrachloro-m-xylene #2



Original Peak Response = 21649133



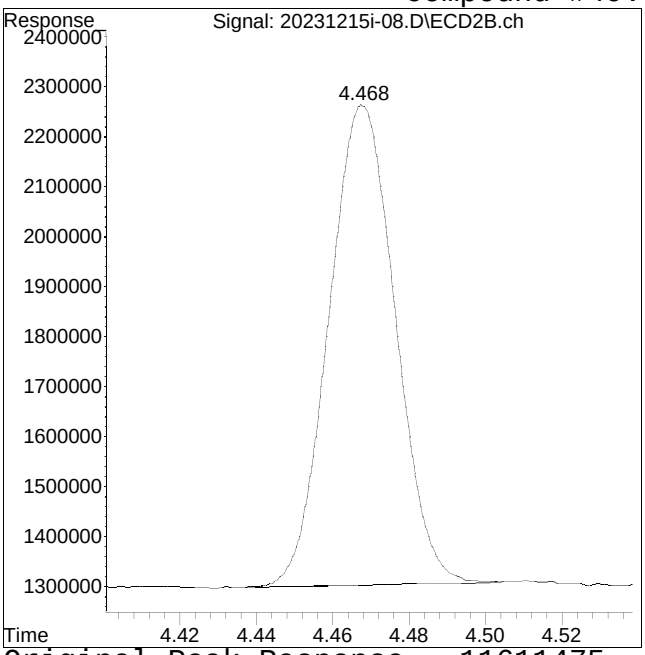
Manual Peak Response = 21582045 M4

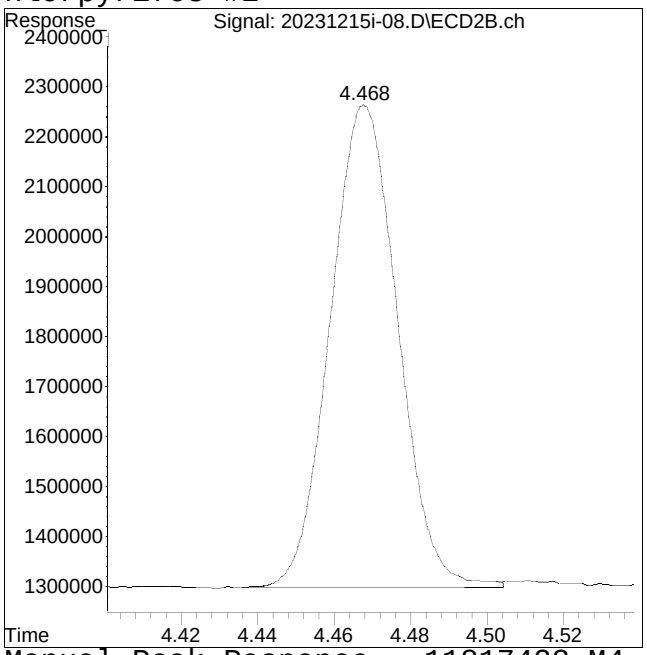
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2023\231215QMethod : pest20_2023_12_15_ugL_IC
Data File : 20231215i-08.D Operator : pest20:ejl
Date Inj'd : 12/15/2023 6:01 pm Instrument : PEST 20
Sample : il7pest,42e,,pp 11401 L0.0Quant Date : 12/18/2023 11:42 am

Compound #49: Chlorpyrifos #2



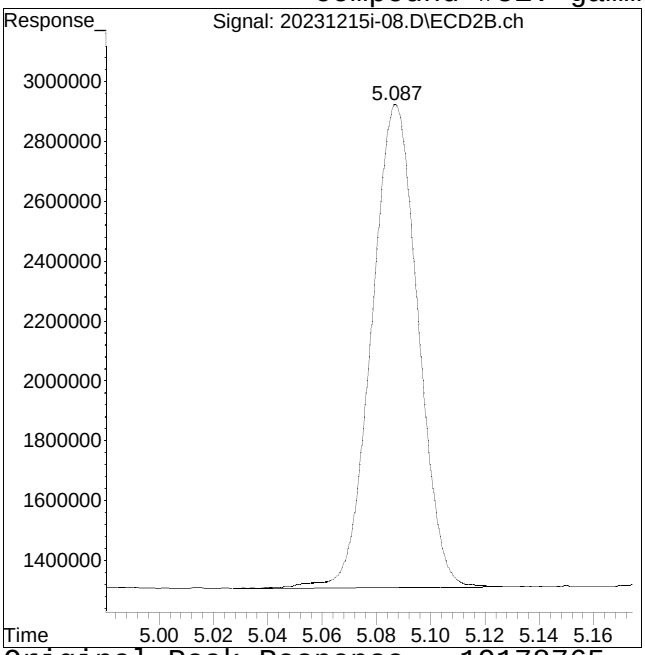


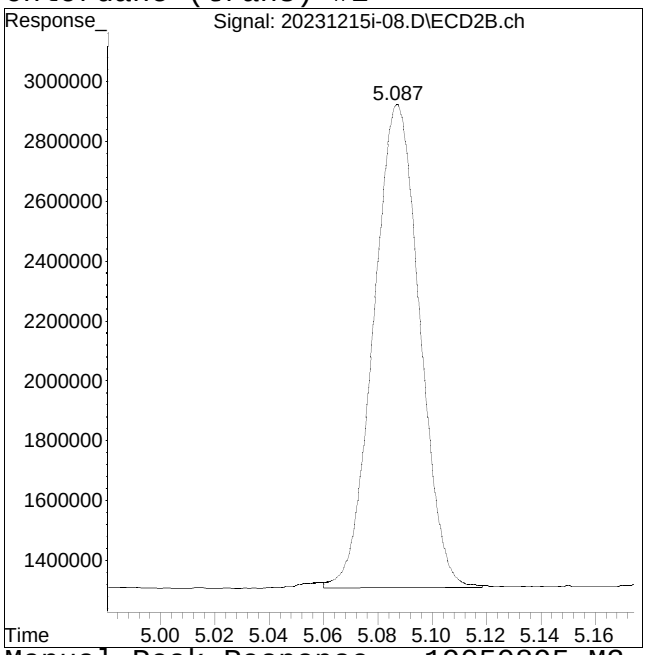
Original Peak Response = 11611475 Manual Peak Response = 11817422 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2023\231215QMethod : pest20_2023_12_15_ugL_IC
Data File : 20231215i-08.D Operator : pest20:ejl
Date Inj'd : 12/15/2023 6:01 pm Instrument : PEST 20
Sample : il7pest,42e,,pp 11401 L0.0Quant Date : 12/18/2023 11:42 am

Compound #51: gamma-Chlordane (trans) #2



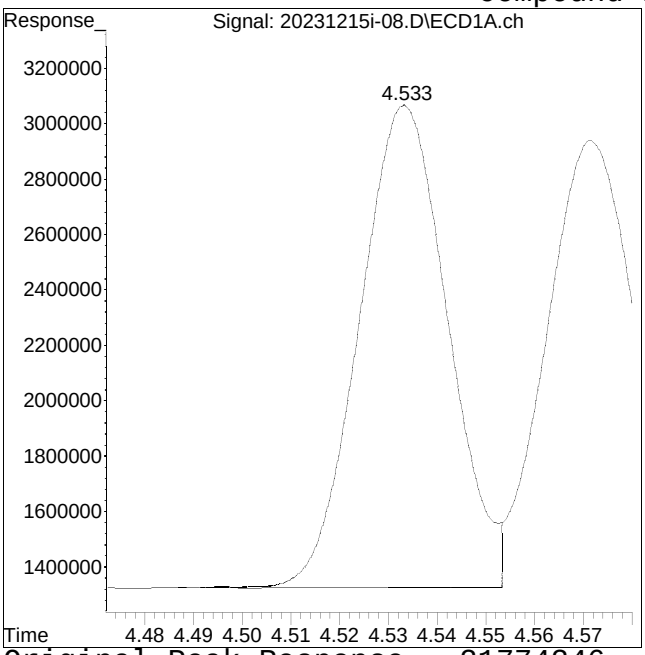


Original Peak Response = 19178765 Manual Peak Response = 19050895 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

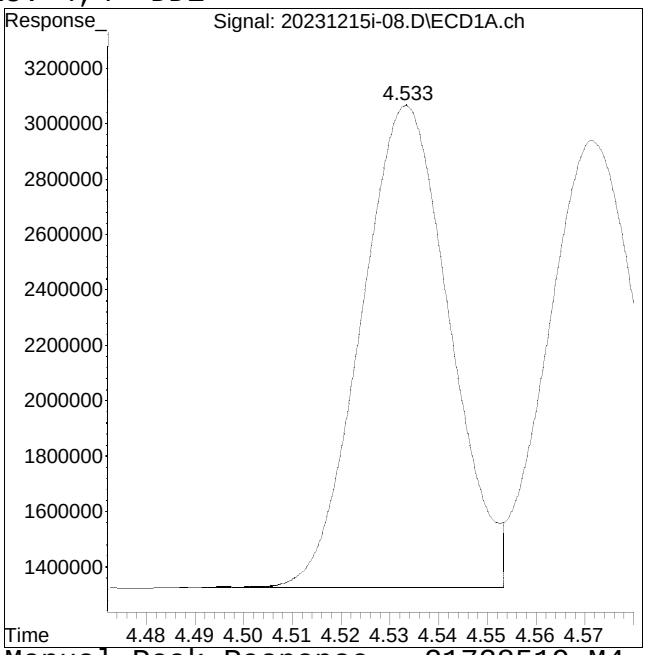
Manual Integration Report

Data Path : I:\PEST\Pest20\2023\231215QMethod : pest20_2023_12_15_ugL_IC
Data File : 20231215i-08.D Operator : pest20:ejl
Date Inj'd : 12/15/2023 6:01 pm Instrument : PEST 20
Sample : il7pest,42e,,pp 11401 L0.0Quant Date : 12/18/2023 11:42 am

Compound #15: 4,4'-DDE



Original Peak Response = 21774246



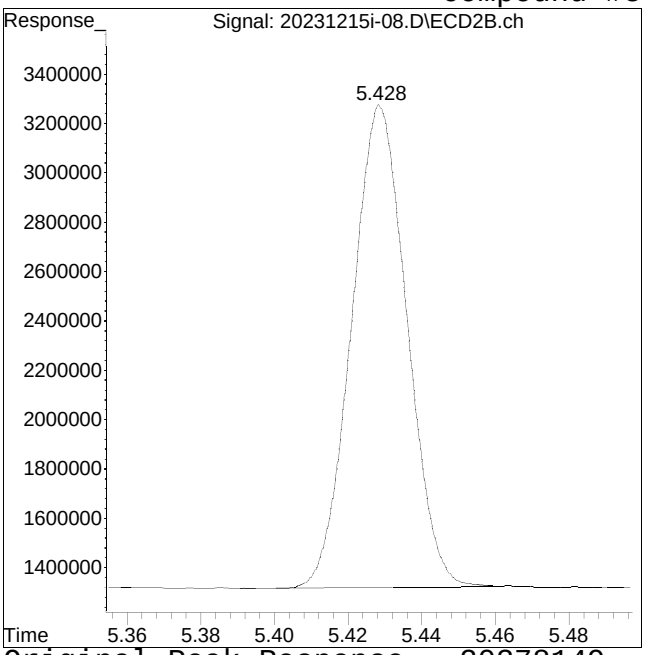
Manual Peak Response = 21738519 M4

M4 = Poor automated baseline construction.

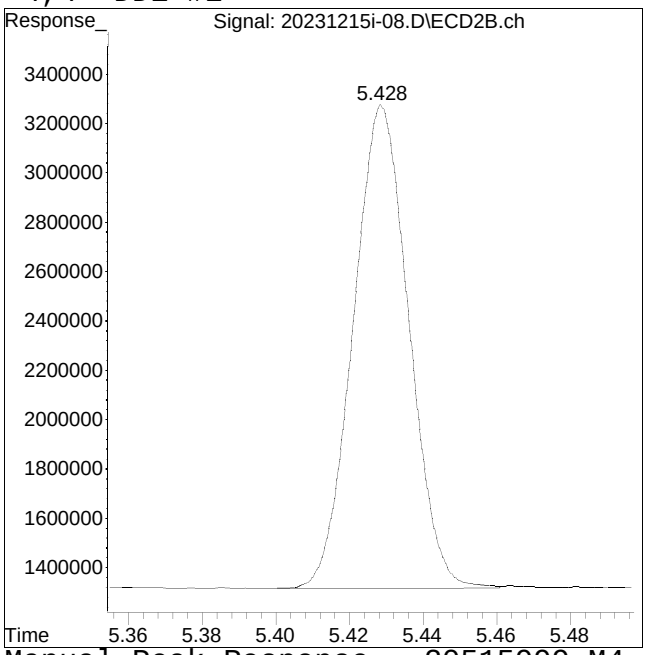
Manual Integration Report

Data Path : I:\PEST\Pest20\2023\231215QMethod : pest20_2023_12_15_ugL_IC
Data File : 20231215i-08.D Operator : pest20:ejl
Date Inj'd : 12/15/2023 6:01 pm Instrument : PEST 20
Sample : il7pest,42e,,pp 11401 L0.0Quant Date : 12/18/2023 11:42 am

Compound #53: 4,4'-DDE #2



Original Peak Response = 20378149



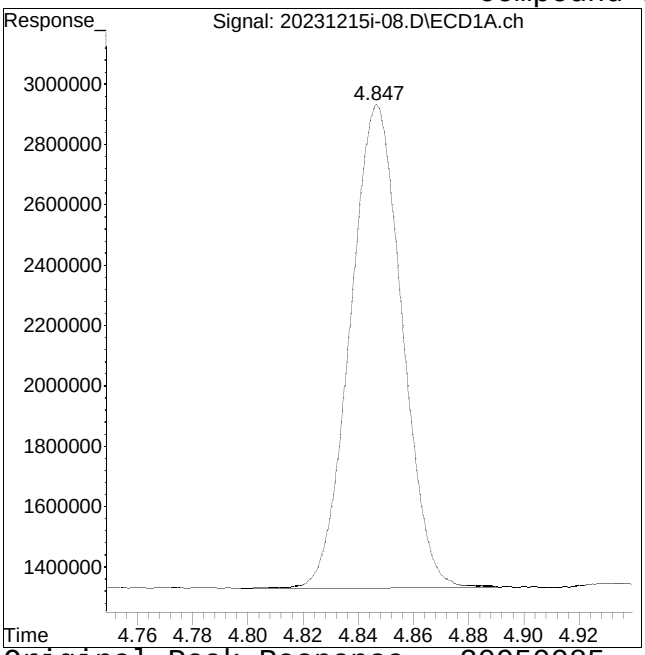
Manual Peak Response = 20515999 M4

M4 = Poor automated baseline construction.

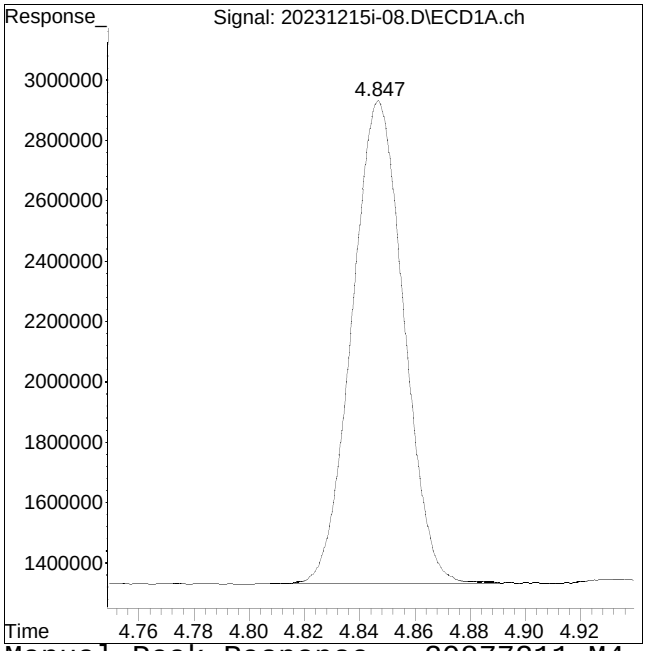
Manual Integration Report

Data Path : I:\PEST\Pest20\2023\231215QMethod : pest20_2023_12_15_ugL_IC
Data File : 20231215i-08.D Operator : pest20:ejl
Date Inj'd : 12/15/2023 6:01 pm Instrument : PEST 20
Sample : il7pest,42e,,pp 11401 L0.0Quant Date : 12/18/2023 11:42 am

Compound #17: Dieldrin



Original Peak Response = 20950085



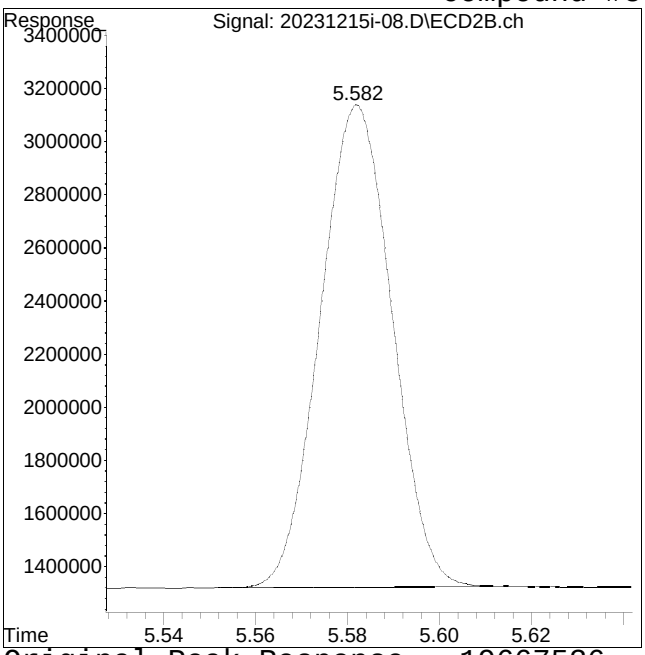
Manual Peak Response = 20877211 M4

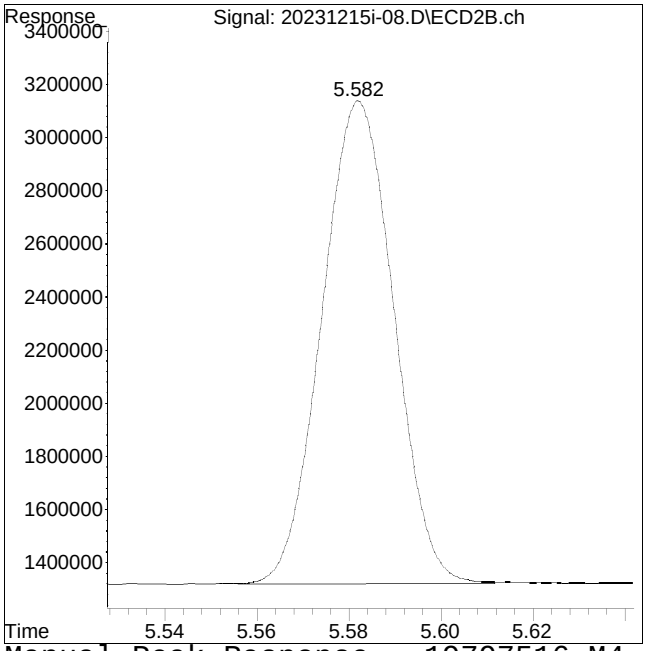
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2023\231215QMethod : pest20_2023_12_15_ugL_IC
Data File : 20231215i-08.D Operator : pest20:ejl
Date Inj'd : 12/15/2023 6:01 pm Instrument : PEST 20
Sample : il7pest,42e,,pp 11401 L0.0Quant Date : 12/18/2023 11:42 am

Compound #55: Dieldrin #2



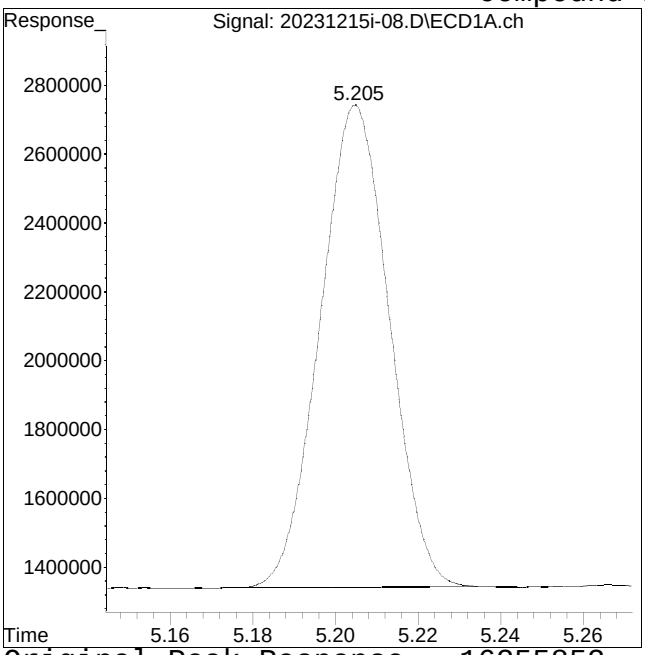


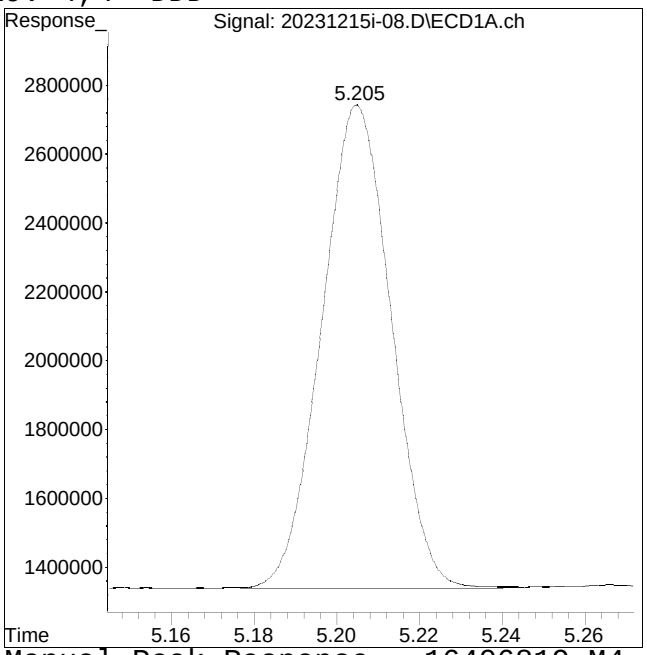
Original Peak Response = 19667536 Manual Peak Response = 19797516 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2023\231215QMethod : pest20_2023_12_15_ugL_IC
Data File : 20231215i-08.D Operator : pest20:ejl
Date Inj'd : 12/15/2023 6:01 pm Instrument : PEST 20
Sample : il7pest,42e,,pp 11401 L0.0Quant Date : 12/18/2023 11:42 am

Compound #19: 4,4'-DDD



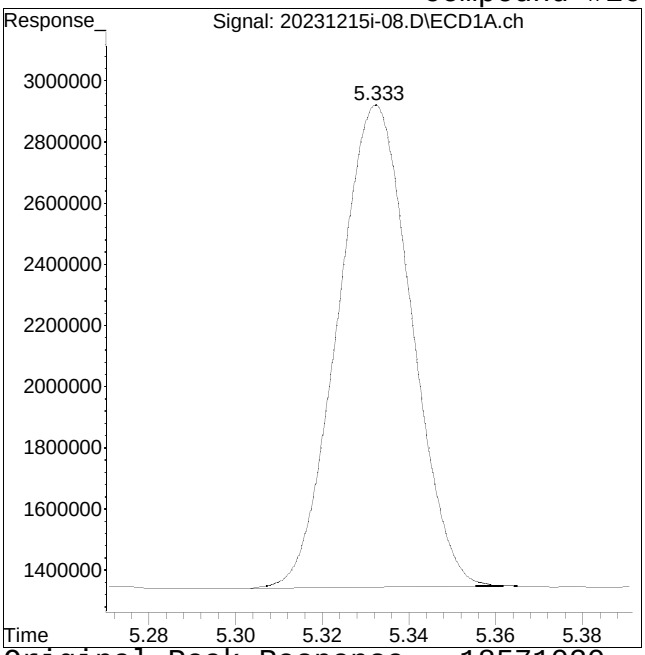


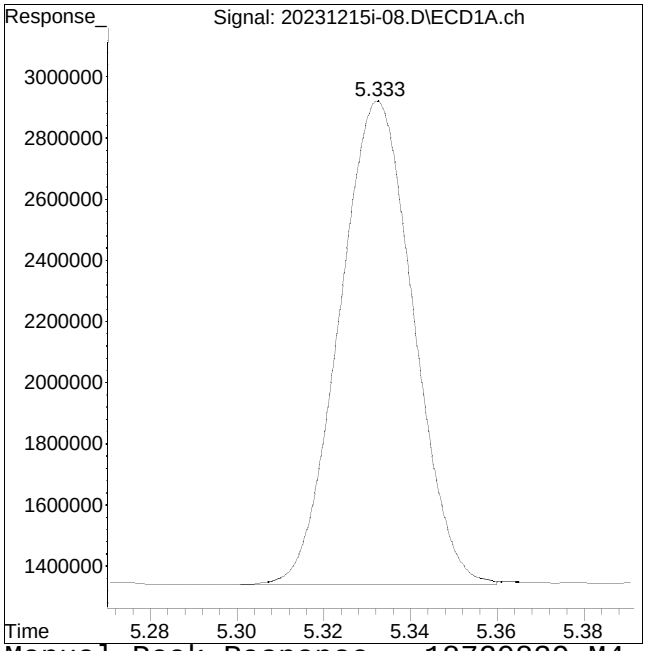
Original Peak Response = 16255852 Manual Peak Response = 16406819 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2023\231215QMethod : pest20_2023_12_15_ugL_IC
Data File : 20231215i-08.D Operator : pest20:ejl
Date Inj'd : 12/15/2023 6:01 pm Instrument : PEST 20
Sample : il7pest,42e,,pp 11401 L0.0Quant Date : 12/18/2023 11:42 am

Compound #20: Endosulfan II



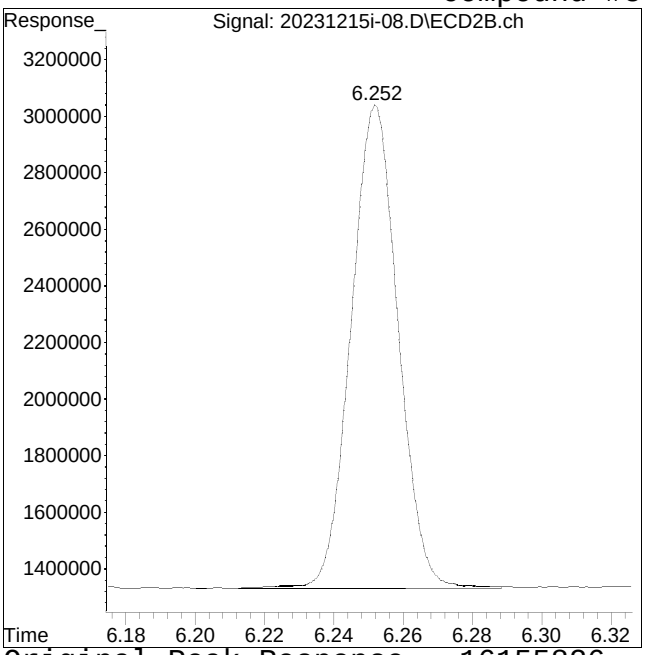


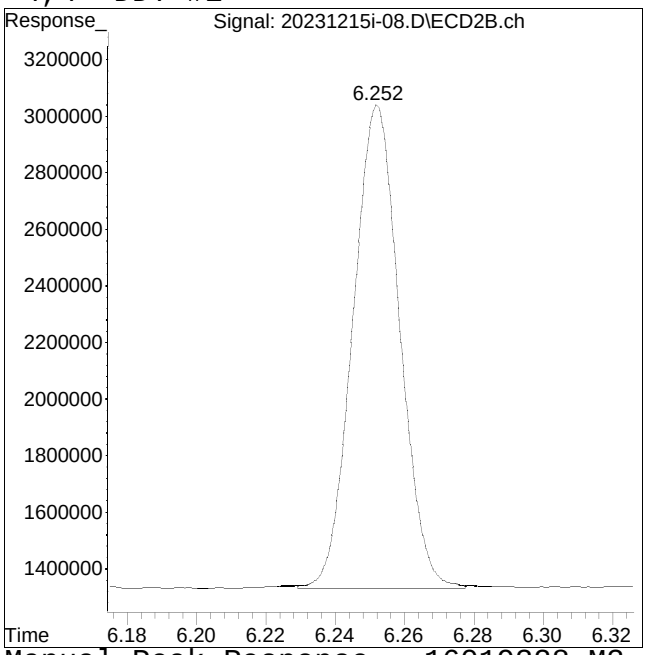
Original Peak Response = 18571030 Manual Peak Response = 18720839 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2023\231215QMethod : pest20_2023_12_15_ugL_IC
Data File : 20231215i-08.D Operator : pest20:ejl
Date Inj'd : 12/15/2023 6:01 pm Instrument : PEST 20
Sample : il7pest,42e,,pp 11401 L0.0Quant Date : 12/18/2023 11:42 am

Compound #59: 4,4'-DDT #2



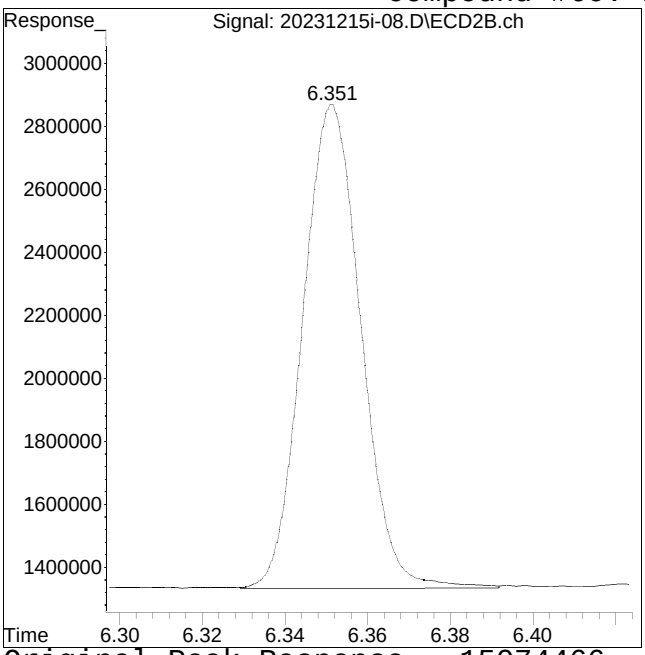


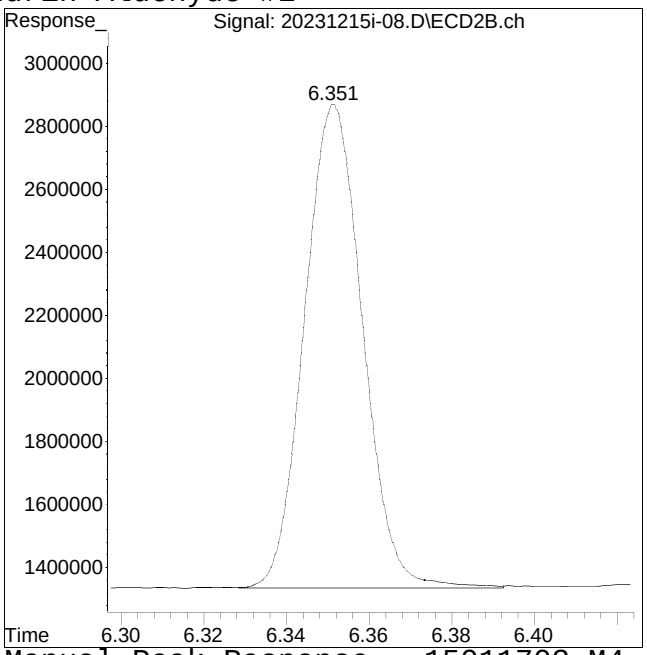
Original Peak Response = 16155826 Manual Peak Response = 16019328 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest20\2023\231215QMethod : pest20_2023_12_15_ugL_IC
Data File : 20231215i-08.D Operator : pest20:ejl
Date Inj'd : 12/15/2023 6:01 pm Instrument : PEST 20
Sample : il7pest,42e,,pp 11401 L0.0Quant Date : 12/18/2023 11:42 am

Compound #60: Endrin Aldehyde #2



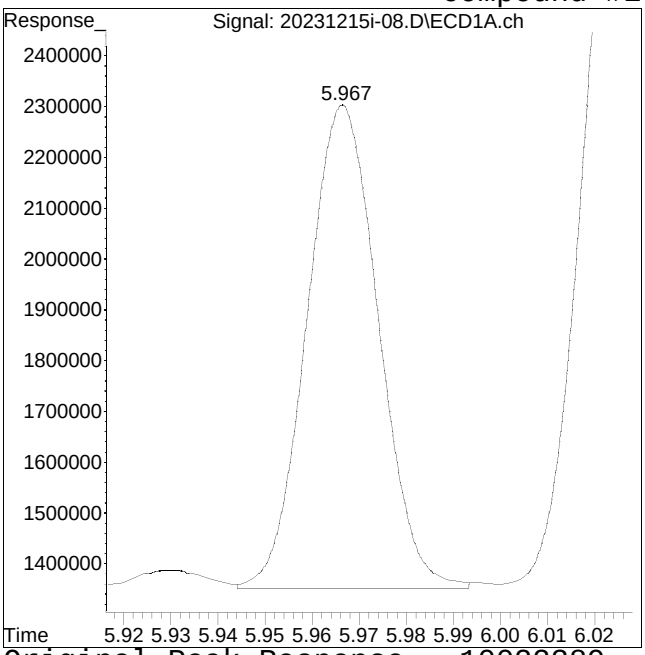


Original Peak Response = 15074466 Manual Peak Response = 15011703 M4
M4 = Poor automated baseline construction.

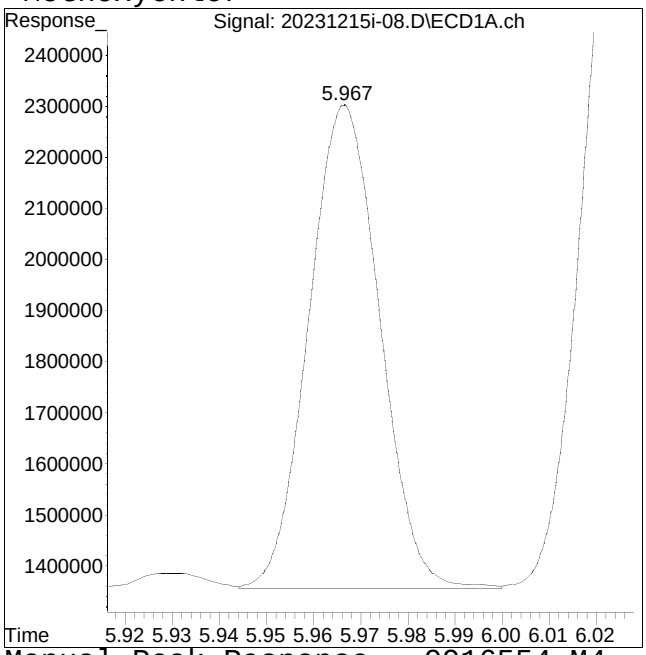
Manual Integration Report

Data Path : I:\PEST\Pest20\2023\231215QMethod : pest20_2023_12_15_ugL_IC
Data File : 20231215i-08.D Operator : pest20:ejl
Date Inj'd : 12/15/2023 6:01 pm Instrument : PEST 20
Sample : il7pest,42e,,pp 11401 L0.0Quant Date : 12/18/2023 11:42 am

Compound #23: Methoxychlor



Original Peak Response = 10022389



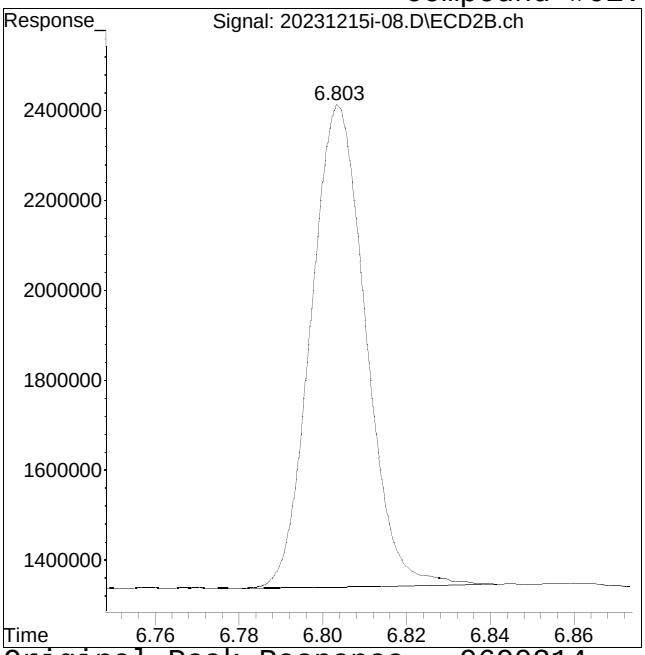
Manual Peak Response = 9916554 M4

M4 = Poor automated baseline construction.

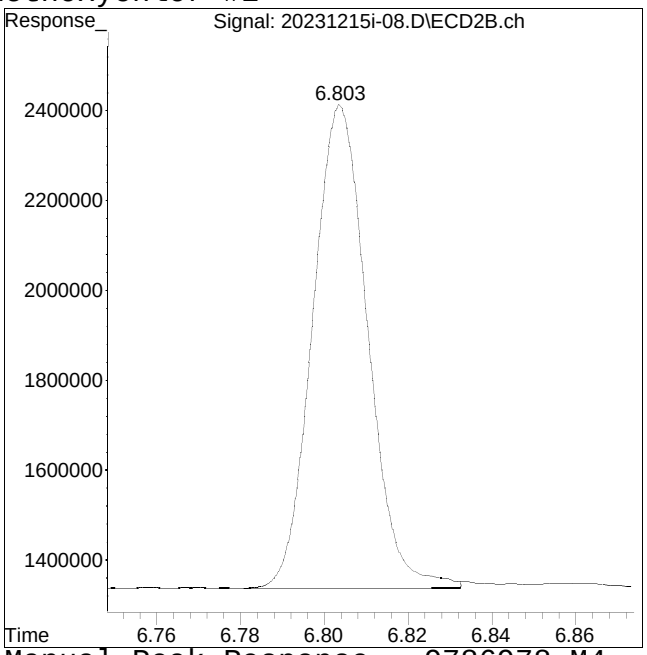
Manual Integration Report

Data Path : I:\PEST\Pest20\2023\231215QMethod : pest20_2023_12_15_ugL_IC
Data File : 20231215i-08.D Operator : pest20:ejl
Date Inj'd : 12/15/2023 6:01 pm Instrument : PEST 20
Sample : il7pest,42e,,pp 11401 L0.0Quant Date : 12/18/2023 11:42 am

Compound #61: Methoxychlor #2



Original Peak Response = 9690214



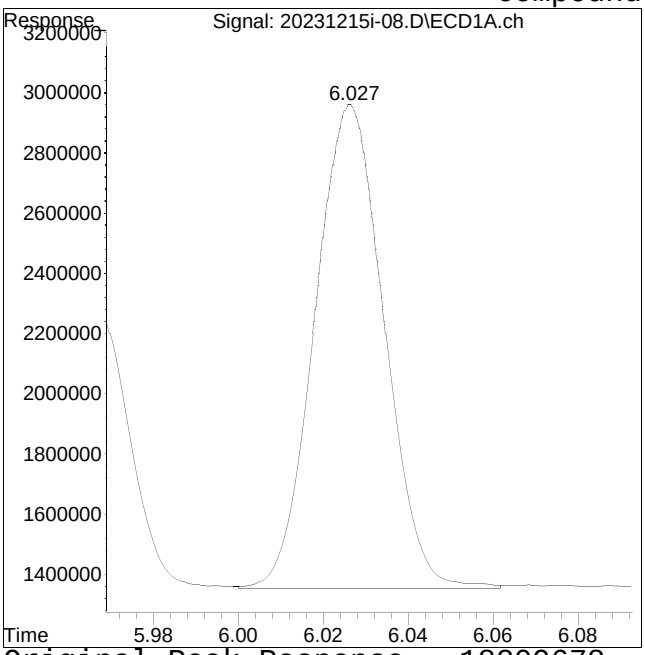
Manual Peak Response = 9786978 M4

M4 = Poor automated baseline construction.

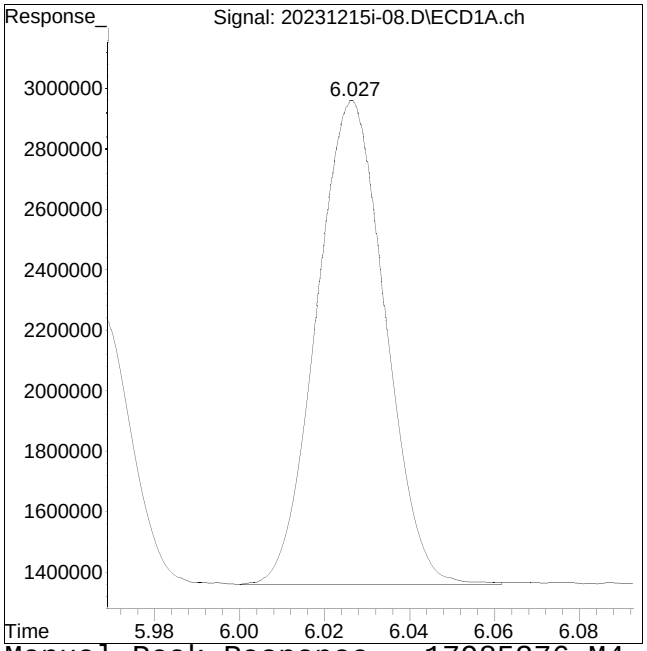
Manual Integration Report

Data Path : I:\PEST\Pest20\2023\231215QMethod : pest20_2023_12_15_ugL_IC
Data File : 20231215i-08.D Operator : pest20:ejl
Date Inj'd : 12/15/2023 6:01 pm Instrument : PEST 20
Sample : il7pest,42e,,pp 11401 L0.0Quant Date : 12/18/2023 11:42 am

Compound #24: Mirex



Original Peak Response = 18209678



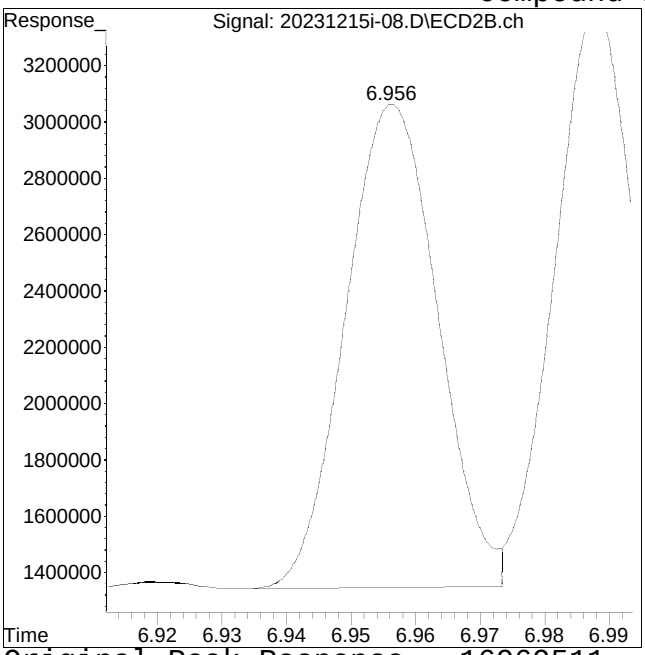
Manual Peak Response = 17985376 M4

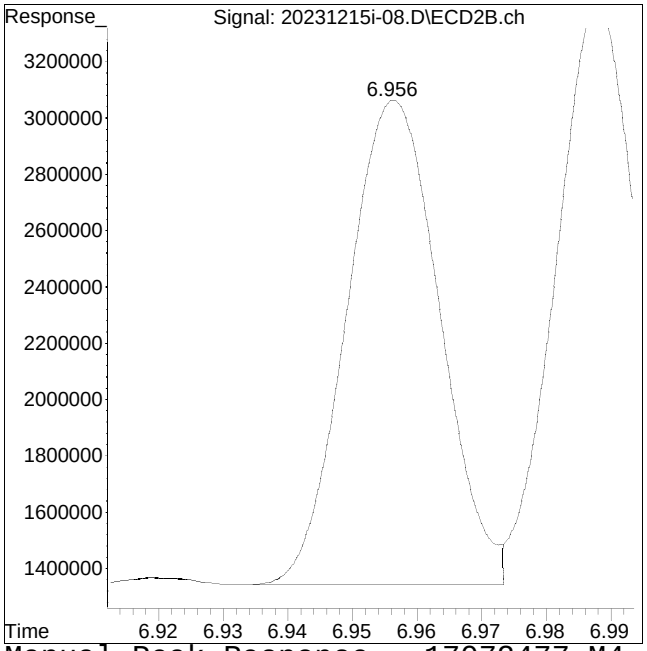
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2023\231215QMethod : pest20_2023_12_15_ugL_IC
Data File : 20231215i-08.D Operator : pest20:ejl
Date Inj'd : 12/15/2023 6:01 pm Instrument : PEST 20
Sample : il7pest,42e,,pp 11401 L0.0Quant Date : 12/18/2023 11:42 am

Compound #62: Mirex #2



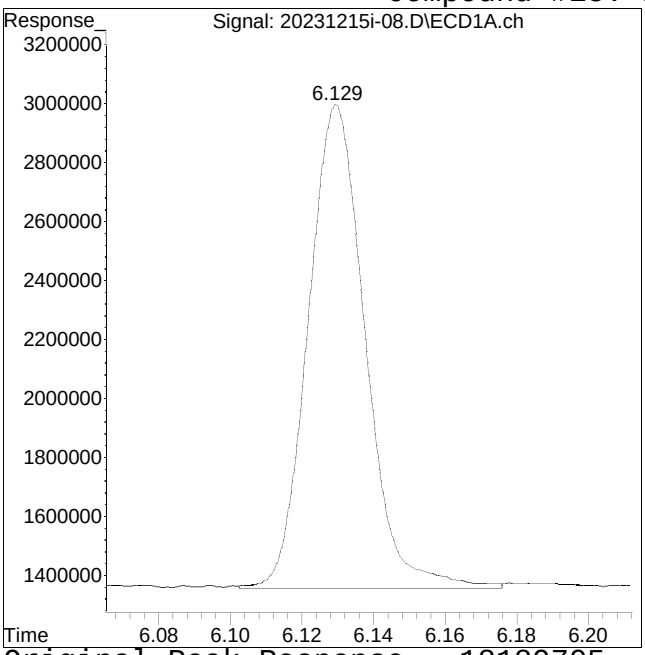


Original Peak Response = 16969511 Manual Peak Response = 17072477 M4
M4 = Poor automated baseline construction.

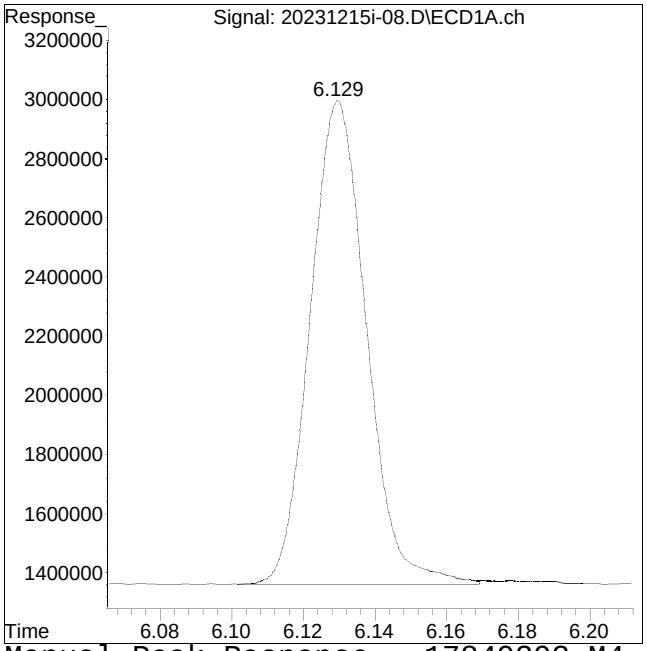
Manual Integration Report

Data Path : I:\PEST\Pest20\2023\231215QMethod : pest20_2023_12_15_ugL_IC
Data File : 20231215i-08.D Operator : pest20:ejl
Date Inj'd : 12/15/2023 6:01 pm Instrument : PEST 20
Sample : il7pest,42e,,pp 11401 L0.0Quant Date : 12/18/2023 11:42 am

Compound #25: Endosulfan Sulfate



Original Peak Response = 18189705



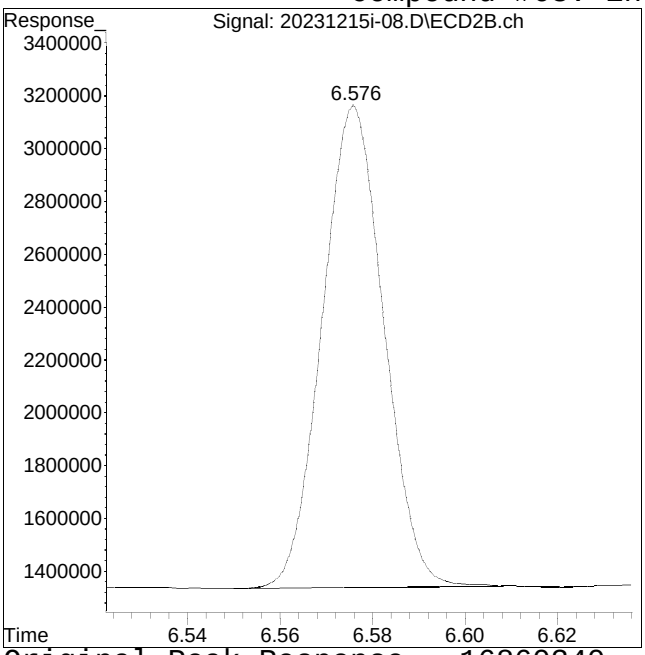
Manual Peak Response = 17849393 M4

M4 = Poor automated baseline construction.

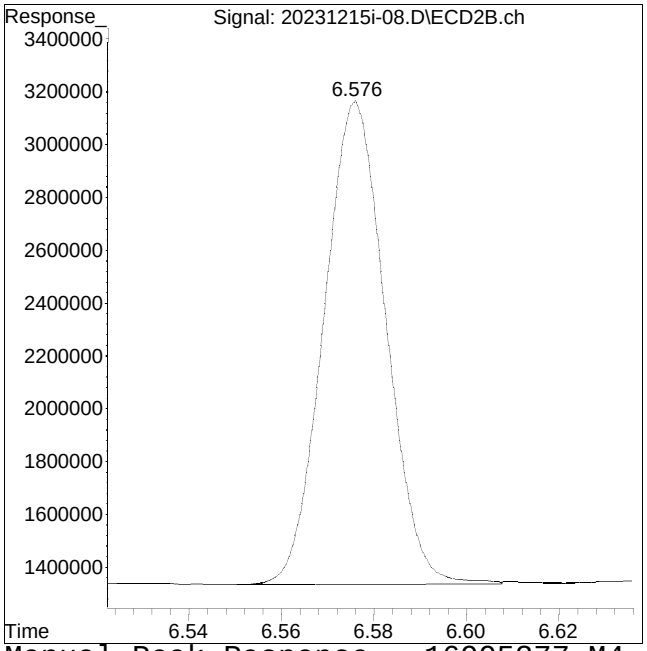
Manual Integration Report

Data Path : I:\PEST\Pest20\2023\231215QMethod : pest20_2023_12_15_ugL_IC
Data File : 20231215i-08.D Operator : pest20:ejl
Date Inj'd : 12/15/2023 6:01 pm Instrument : PEST 20
Sample : il7pest,42e,,pp 11401 L0.0Quant Date : 12/18/2023 11:42 am

Compound #63: Endosulfan Sulfate #2



Original Peak Response = 16860340



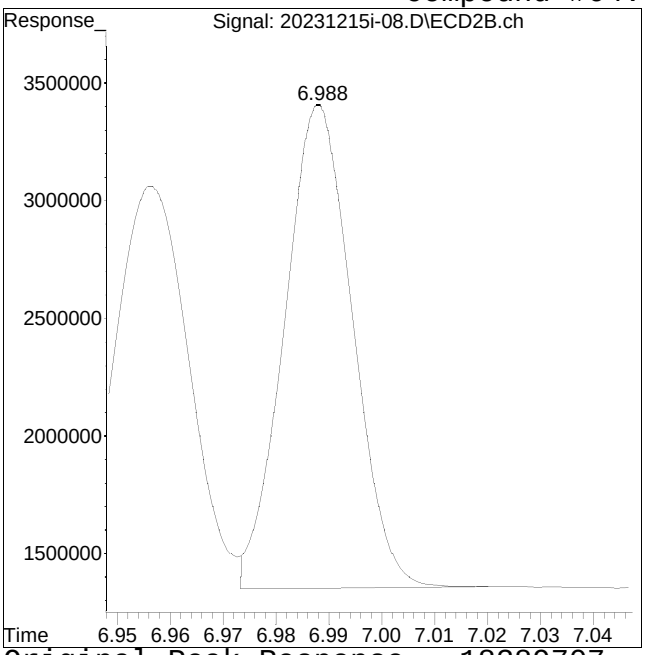
Manual Peak Response = 16995377 M4

M4 = Poor automated baseline construction.

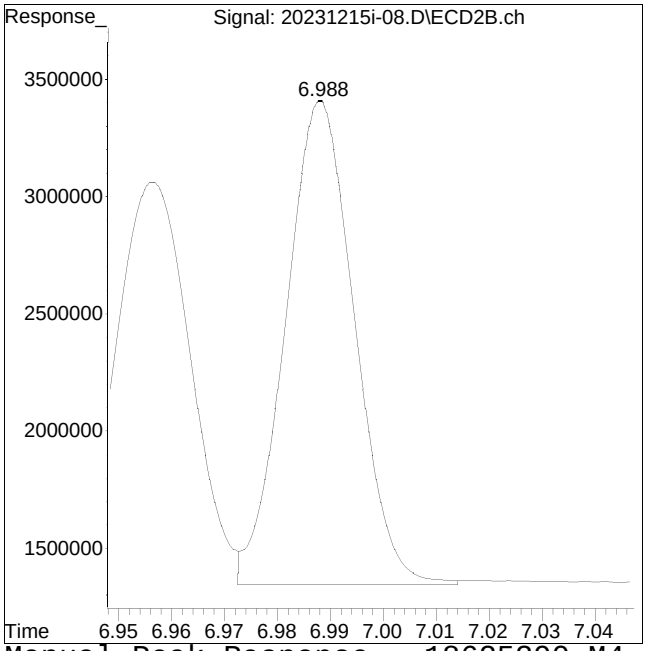
Manual Integration Report

Data Path : I:\PEST\Pest20\2023\231215QMethod : pest20_2023_12_15_ugL_IC
Data File : 20231215i-08.D Operator : pest20:ejl
Date Inj'd : 12/15/2023 6:01 pm Instrument : PEST 20
Sample : il7pest,42e,,pp 11401 L0.0Quant Date : 12/18/2023 11:42 am

Compound #64: Endrin Ketone #2



Original Peak Response = 18389707



Manual Peak Response = 18625390 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest20\2023\231215ical\
Data File : 20231215i-09.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Dec 2023 06:13 pm
Operator : pest20:ejl
Sample : il8pest,42e,,pp 11400 L0.05
Misc : wg1865714,ical (Sig #1); ical (Sig #2)
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 18 11:22:43 2023
Quant Method : I:\PEST\Pest20\2023\231215ical\pest20_2023_12_15_ugL_ICAL.m
Quant Title : pest
QLast Update : Fri Dec 08 09:09:33 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	1.828	1.992	46514517	44629136	25.000	25.000
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	2.285	2.602	93656077	98914577	NoCal	NoCal
	Spiked Amount 50.000	Range 30 - 150		Recovery =		0.00%#	0.00%#
27) s	Decachlorobi	7.155	7.872	98799099	88505920	NoCal	NoCal M4
	Spiked Amount 50.000	Range 30 - 150		Recovery =		0.00%#	0.00%#
	Target Compounds						
3)	Hexachlorobe	2.543	2.981	103.8E6	103.3E6	NoCal	NoCal
4)	alpha-BHC	2.663	3.094	124.3E6	125.5E6	NoCal	NoCal
5)	gamma-BHC (l	2.898	3.419	111.2E6	112.7E6	NoCal	NoCal
6)	beta-BHC	2.967	3.495	52605496	54992104	NoCal	NoCal
7)	delta-BHC	3.110	3.791	113.4E6	114.9E6	NoCal	NoCal
8)	Heptachlor	3.289	3.860	100.2E6	95869895	NoCal	NoCal
9)	Aldrin	3.556	4.210	109.2E6	105.7E6	NoCal	NoCal
10)	Alachlor	3.701	4.086	17014716	15533849	NoCal	NoCal
11)	Chlorpyrifos	3.799	4.468	44877917	49266019	NoCal	NoCal
12)	Heptachlor E	4.151	4.871	98068308	99360663	NoCal	NoCal
13)	gamma-Chlord	4.284	5.086	91797623	88052320	NoCal	NoCal M3
14)	alpha-Chlord	4.427	5.245	105.0E6	99569820	NoCal	NoCal
15)	4,4'-DDE	4.533	5.428	105.4E6	101.6E6	NoCal	NoCal M4
16)	Endosulfan I	4.572	5.304	94569365	93164752	NoCal	NoCal
17)	Dieldrin	4.846	5.582	98504357	95650032	NoCal	NoCal M4
18)	Endrin	5.098	5.869	95810694	95241646	NoCal	NoCal M4
19)	4,4'-DDD	5.205	5.981	78779266	77276519	NoCal	NoCal M4
20)	Endosulfan I	5.332	6.062	85545724	84298811	NoCal	NoCal M4
21)	4,4'-DDT	5.489	6.252	75853754	76404653	NoCal	NoCal M3
22)	Endrin Aldeh	5.742	6.352	73197495	72495662	NoCal	NoCal M4
23)	Methoxychlor	5.966	6.804	43121231	43258313	NoCal	NoCal

Data Path : I:\PEST\Pest20\2023\231215ical\
Data File : 20231215i-09.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Dec 2023 06:13 pm
Operator : pest20:ejl
Sample : il8pest,42e,,pp 11400 L0.05
Misc : wg1865714,ical (Sig #1); ical (Sig #2)
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 18 11:22:43 2023
Quant Method : I:\PEST\Pest20\2023\231215ical\pest20_2023_12_15_ugL_ICAL.m
Quant Title : pest
QLast Update : Fri Dec 08 09:09:33 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
24)	Mirex	6.026	6.957	75500718	71726237	NoCal	NoCal
25)	Endosulfan S	6.129	6.576	79878016	77938452	NoCal M4	NoCal M4
26)	Endrin Keton	6.356	6.989	87673877	86887906	NoCal	NoCal
29) l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

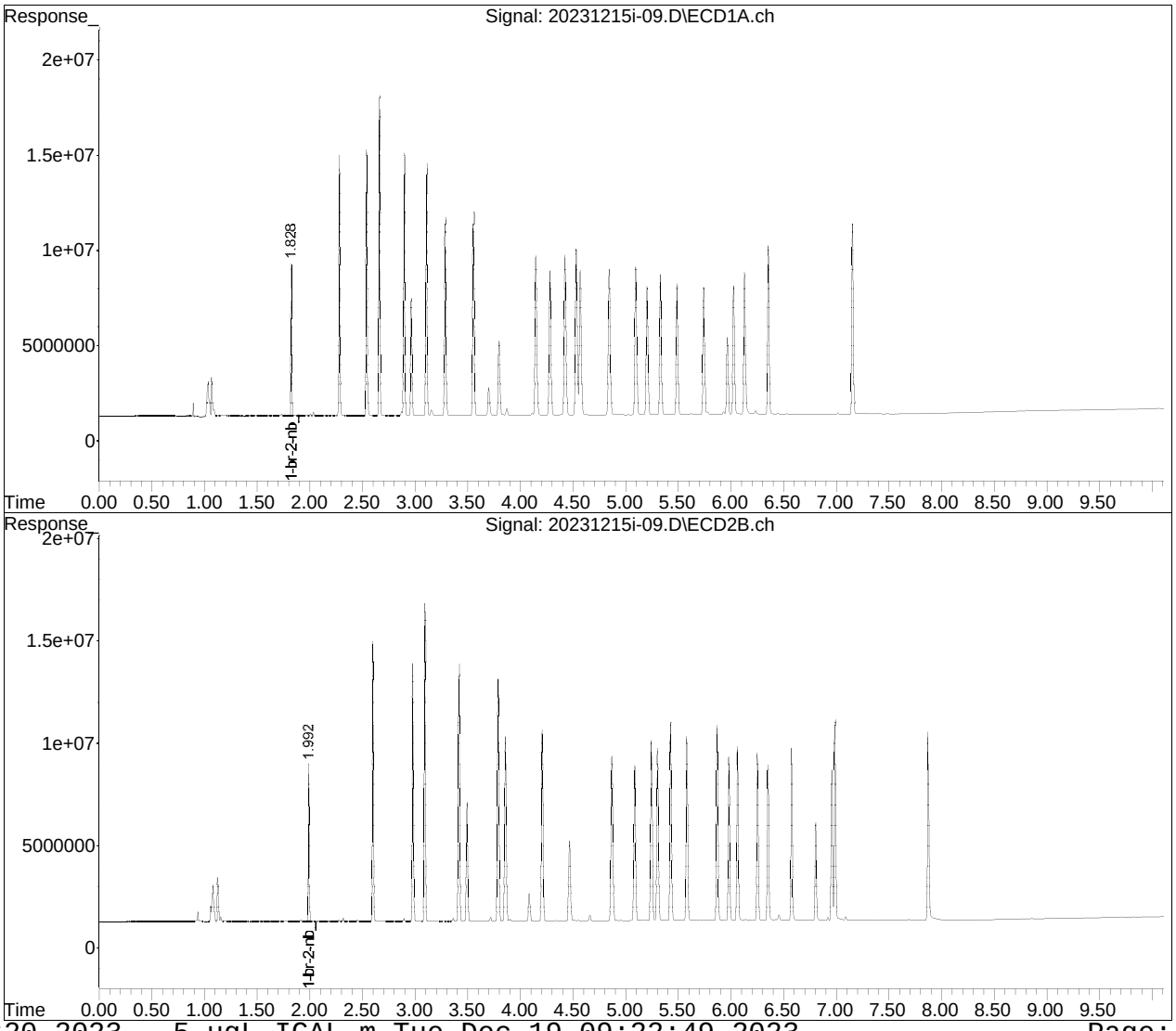
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest20\2023\231215ical\
Data File : 20231215i-09.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Dec 2023 06:13 pm
Operator : pest20:ejl
Sample : il8pest,42e,,pp 11400 L0.05
Misc : wg1865714,ical (Sig #1); ical (Sig #2)
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 18 11:22:43 2023
Quant Method : I:\PEST\Pest20\2023\231215ical\pest20_2023_12_15_ugL_ICAL.m
Quant Title : pest
QLast Update : Fri Dec 08 09:09:33 2023
Response via : Initial Calibration
Integrator: ChemStation

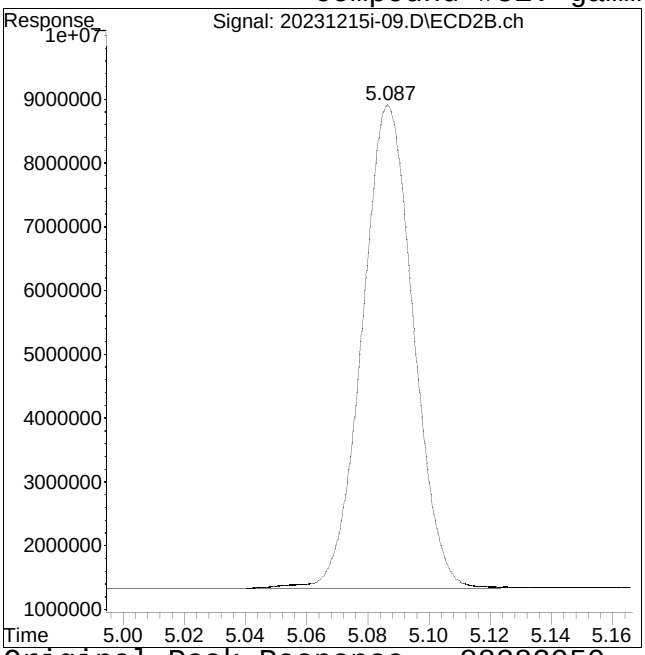
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

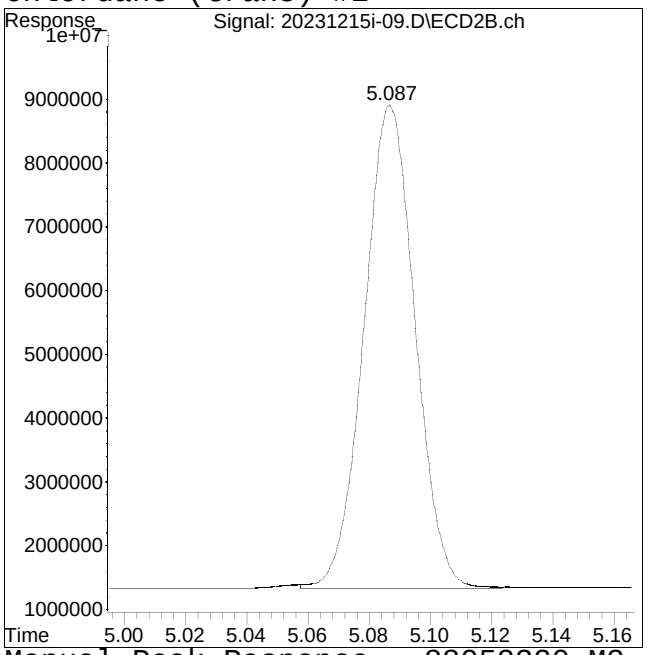


Manual Integration Report

Data Path : I:\PEST\Pest20\2023\231215QMethod : pest20_2023_12_15_ugL_IC
Data File : 20231215i-09.D Operator : pest20:ejl
Date Inj'd : 12/15/2023 6:13 pm Instrument : PEST 20
Sample : il8pest,42e,,pp 11400 L0.0Quant Date : 12/18/2023 11:20 am

Compound #51: gamma-Chlordane (trans) #2



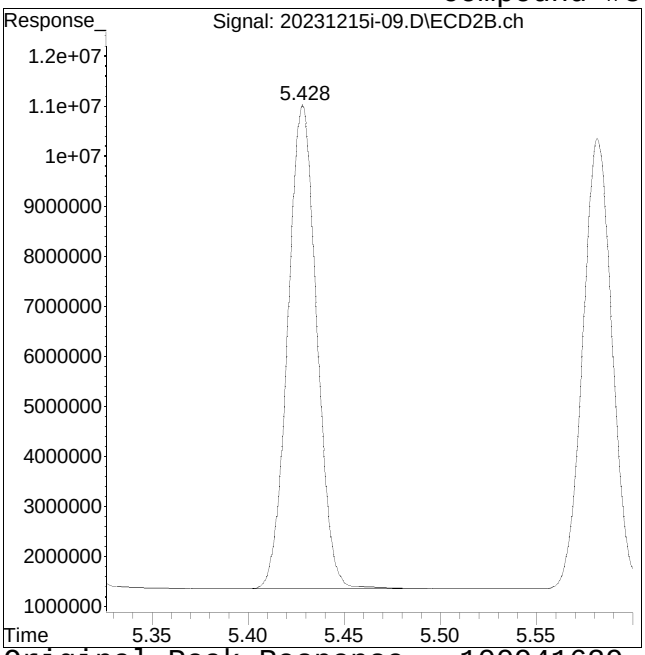


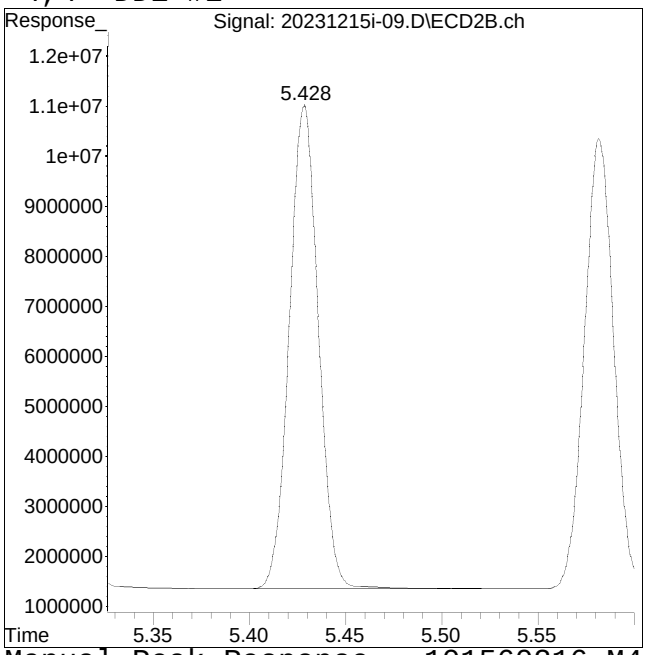
Original Peak Response = 88382950 Manual Peak Response = 88052320 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest20\2023\231215QMethod : pest20_2023_12_15_ugL_IC
Data File : 20231215i-09.D Operator : pest20:ejl
Date Inj'd : 12/15/2023 6:13 pm Instrument : PEST 20
Sample : il8pest,42e,,pp 11400 L0.0Quant Date : 12/18/2023 11:20 am

Compound #53: 4,4'-DDE #2



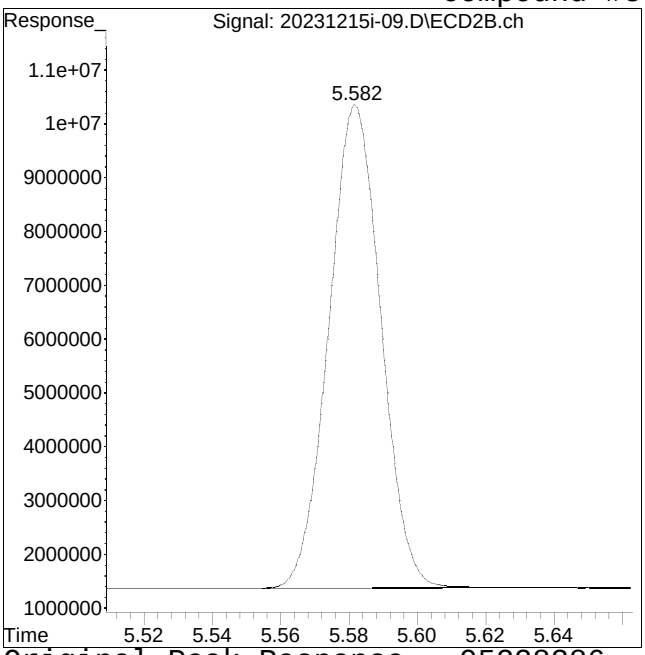


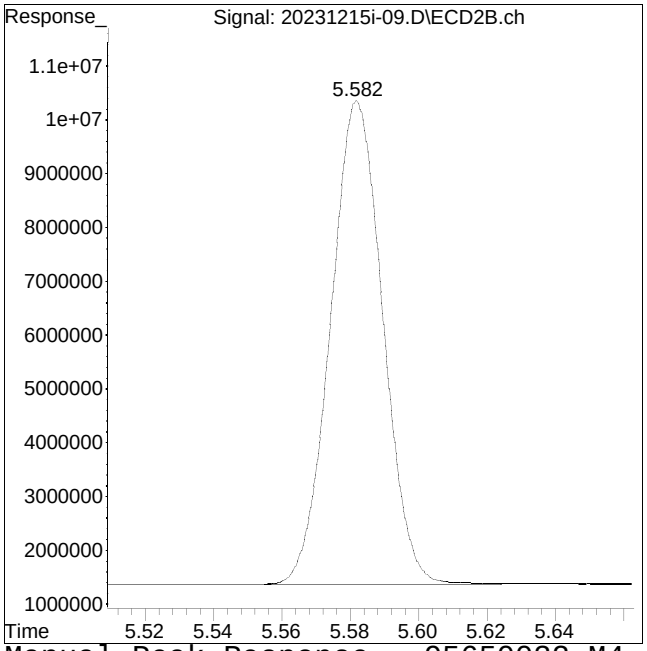
Original Peak Response = 100941629 Manual Peak Response = 101560216 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2023\231215QMethod : pest20_2023_12_15_ugL_IC
Data File : 20231215i-09.D Operator : pest20:ejl
Date Inj'd : 12/15/2023 6:13 pm Instrument : PEST 20
Sample : il8pest,42e,,pp 11400 L0.0Quant Date : 12/18/2023 11:20 am

Compound #55: Dieldrin #2



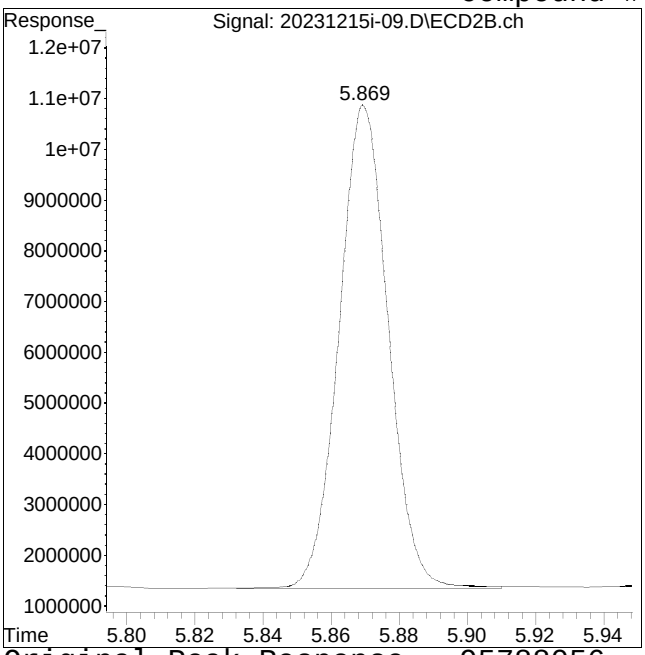


Original Peak Response = 95228286 Manual Peak Response = 95650032 M4
M4 = Poor automated baseline construction.

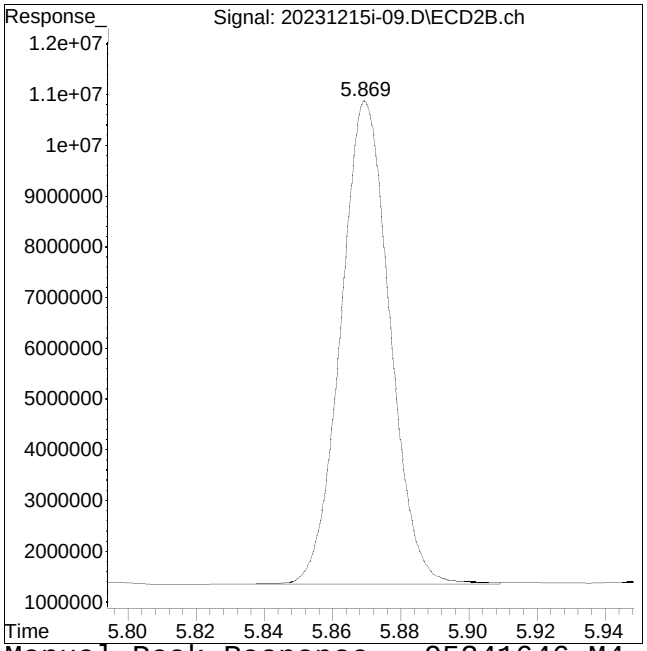
Manual Integration Report

Data Path : I:\PEST\Pest20\2023\231215QMethod : pest20_2023_12_15_ugL_IC
Data File : 20231215i-09.D Operator : pest20:ejl
Date Inj'd : 12/15/2023 6:13 pm Instrument : PEST 20
Sample : il8pest,42e,,pp 11400 L0.0Quant Date : 12/18/2023 11:20 am

Compound #56: Endrin #2



Original Peak Response = 95788056



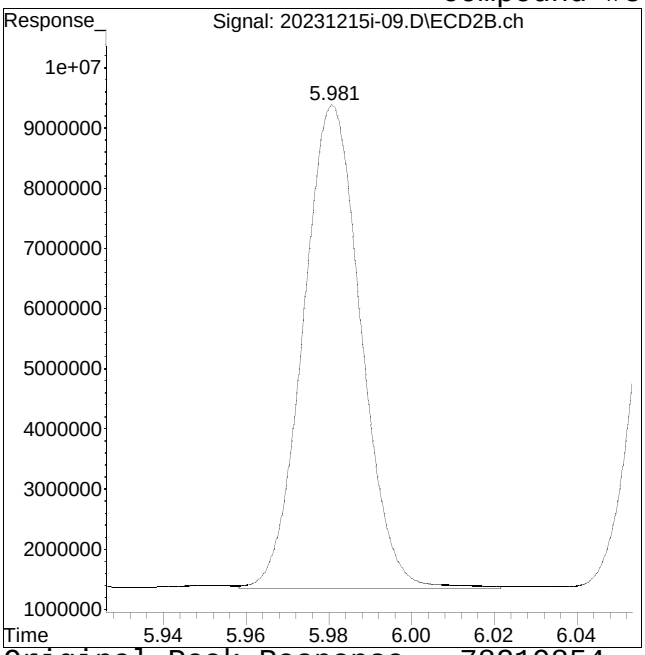
Manual Peak Response = 95241646 M4

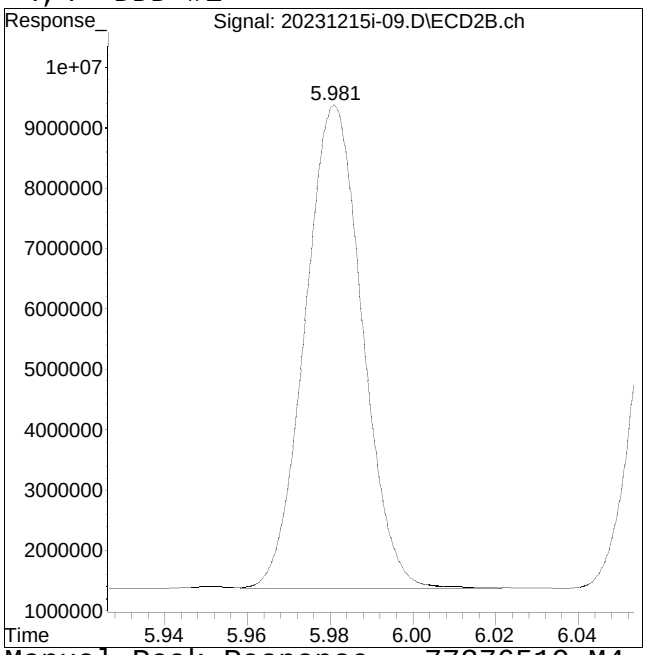
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2023\231215QMethod : pest20_2023_12_15_ugL_IC
Data File : 20231215i-09.D Operator : pest20:ejl
Date Inj'd : 12/15/2023 6:13 pm Instrument : PEST 20
Sample : il8pest,42e,,pp 11400 L0.0Quant Date : 12/18/2023 11:20 am

Compound #57: 4,4'-DDD #2



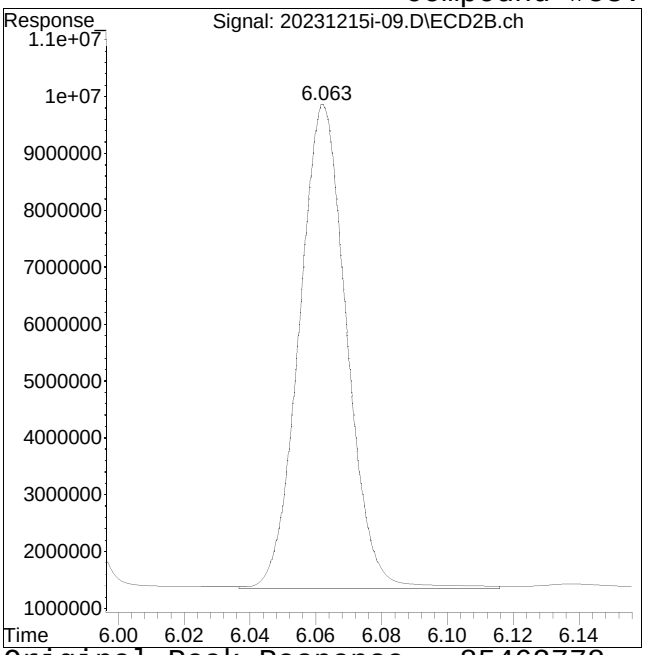


Original Peak Response = 78219854 Manual Peak Response = 77276519 M4
M4 = Poor automated baseline construction.

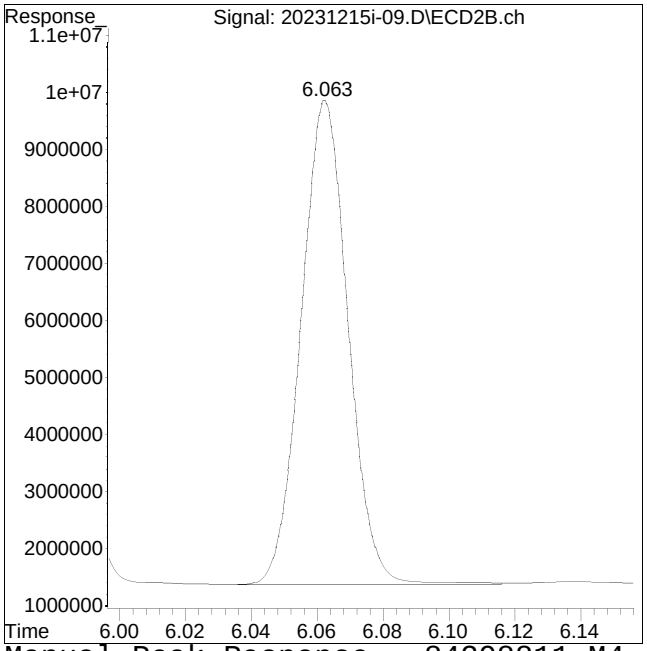
Manual Integration Report

Data Path : I:\PEST\Pest20\2023\231215QMethod : pest20_2023_12_15_ugL_IC
Data File : 20231215i-09.D Operator : pest20:ejl
Date Inj'd : 12/15/2023 6:13 pm Instrument : PEST 20
Sample : il8pest,42e,,pp 11400 L0.0Quant Date : 12/18/2023 11:20 am

Compound #58: Endosulfan II #2



Original Peak Response = 85462778



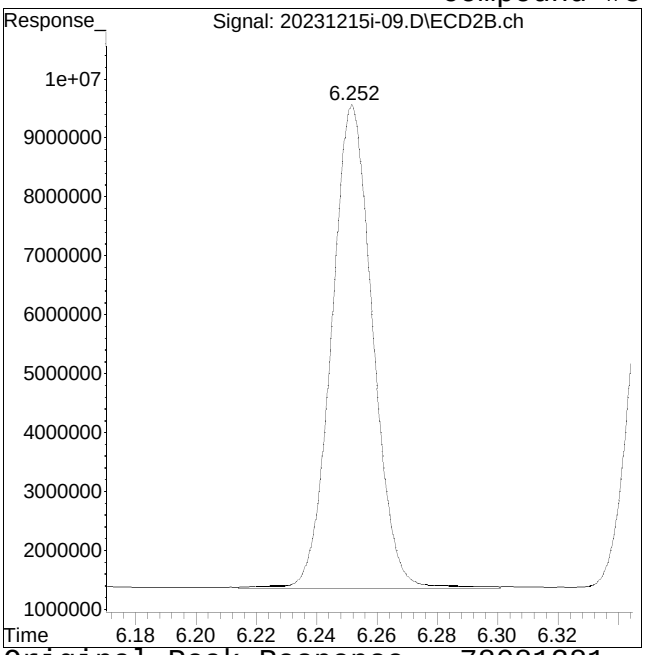
Manual Peak Response = 84298811 M4

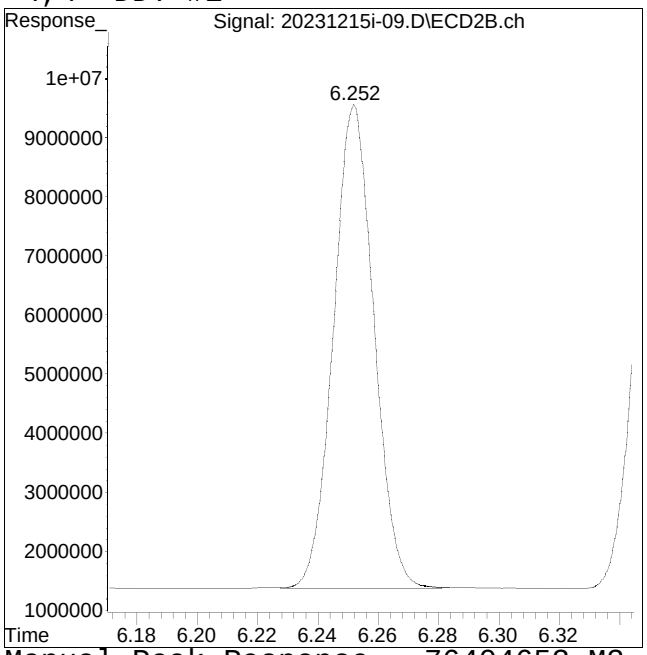
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2023\231215QMethod : pest20_2023_12_15_ugL_IC
Data File : 20231215i-09.D Operator : pest20:ejl
Date Inj'd : 12/15/2023 6:13 pm Instrument : PEST 20
Sample : il8pest,42e,,pp 11400 L0.0Quant Date : 12/18/2023 11:20 am

Compound #59: 4,4'-DDT #2



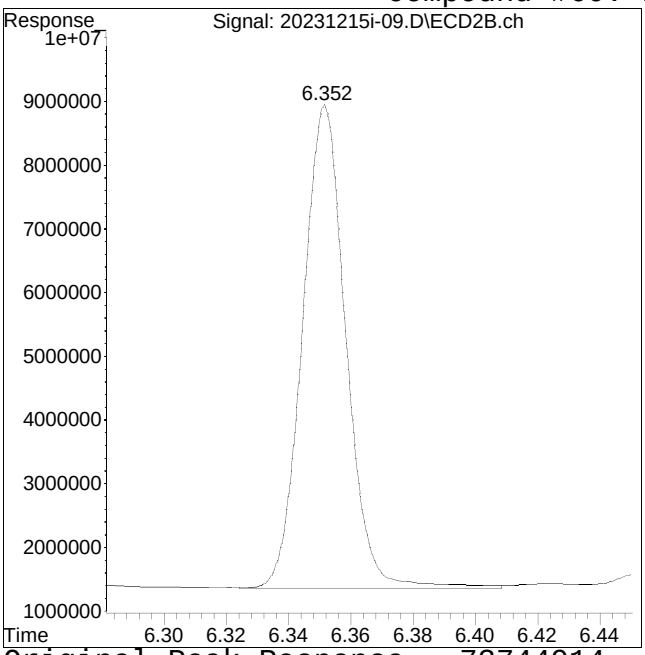


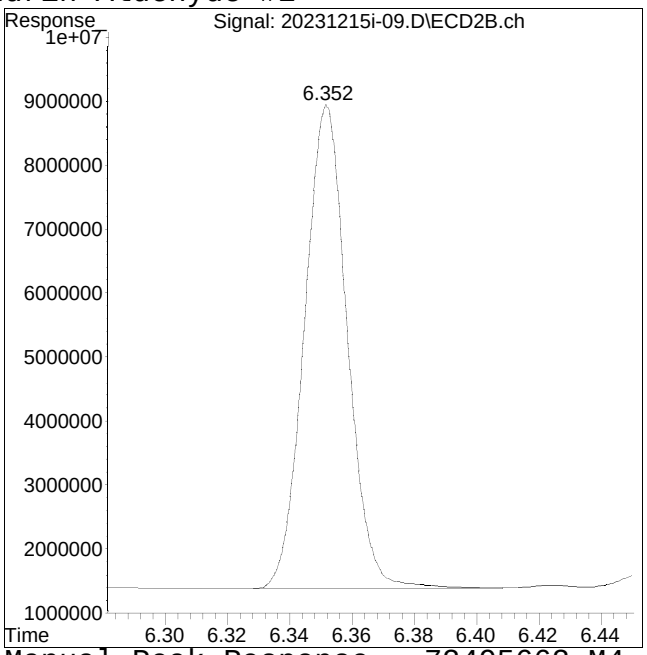
Original Peak Response = 78081281 Manual Peak Response = 76404653 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest20\2023\231215QMethod : pest20_2023_12_15_ugL_IC
Data File : 20231215i-09.D Operator : pest20:ejl
Date Inj'd : 12/15/2023 6:13 pm Instrument : PEST 20
Sample : il8pest,42e,,pp 11400 L0.0Quant Date : 12/18/2023 11:20 am

Compound #60: Endrin Aldehyde #2



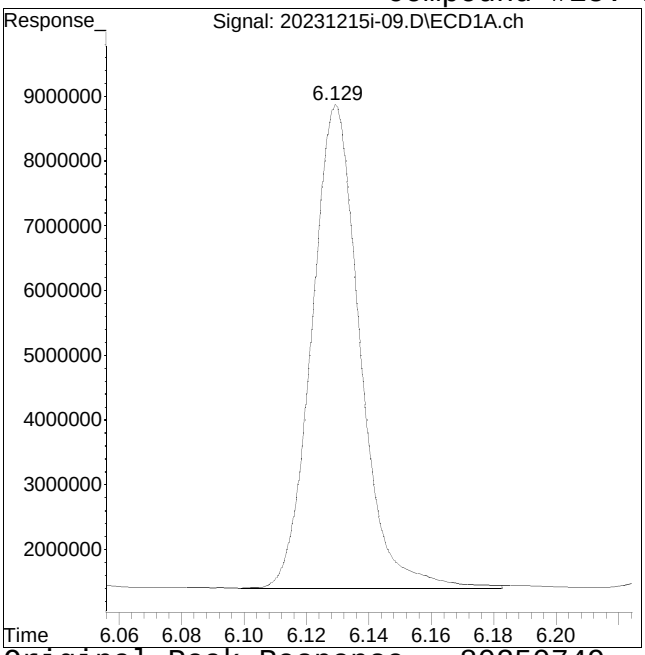


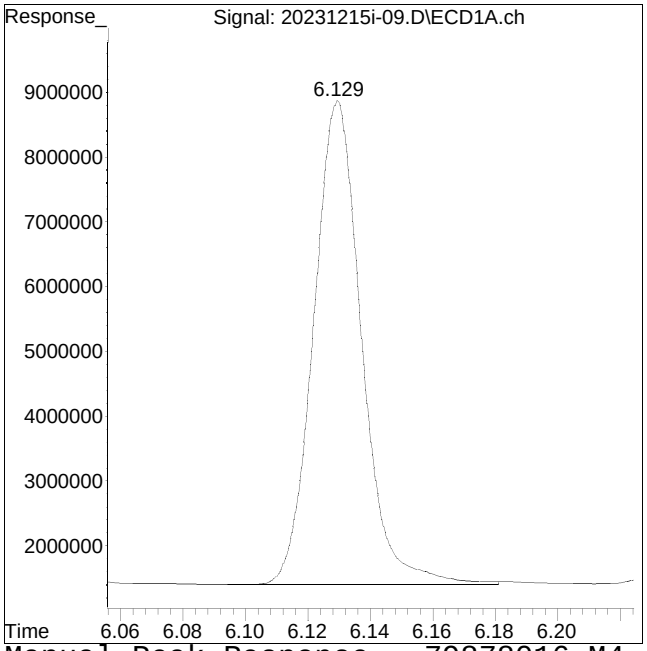
Original Peak Response = 73744914 Manual Peak Response = 72495662 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2023\231215QMethod : pest20_2023_12_15_ugL_IC
Data File : 20231215i-09.D Operator : pest20:ejl
Date Inj'd : 12/15/2023 6:13 pm Instrument : PEST 20
Sample : il8pest,42e,,pp 11400 L0.0Quant Date : 12/18/2023 11:20 am

Compound #25: Endosulfan Sulfate



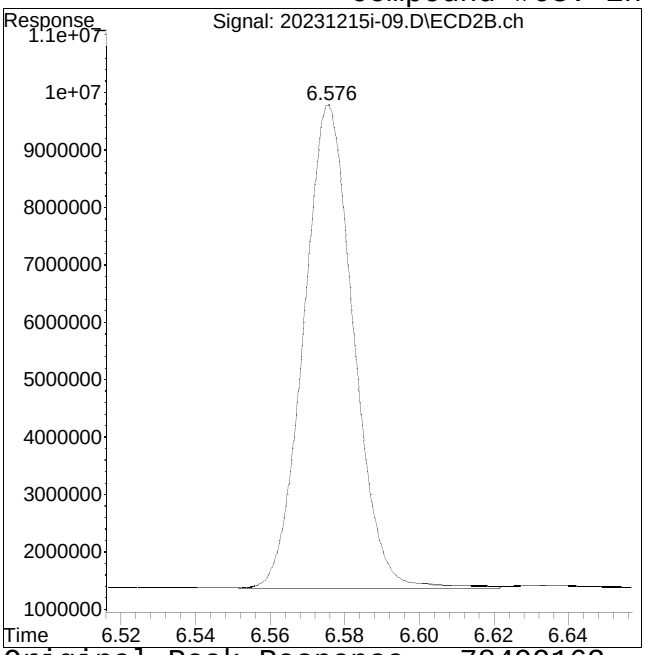


Original Peak Response = 80250749 Manual Peak Response = 79878016 M4
M4 = Poor automated baseline construction.

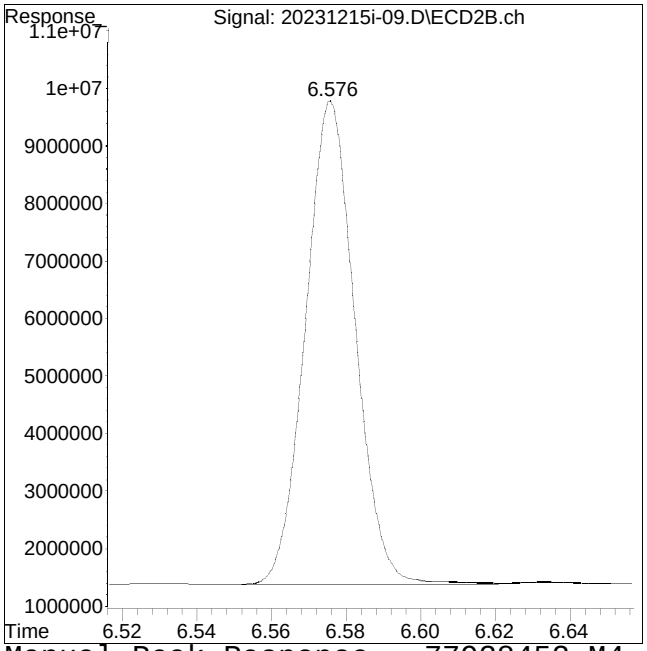
Manual Integration Report

Data Path : I:\PEST\Pest20\2023\231215QMethod : pest20_2023_12_15_ugL_IC
Data File : 20231215i-09.D Operator : pest20:ejl
Date Inj'd : 12/15/2023 6:13 pm Instrument : PEST 20
Sample : il8pest,42e,,pp 11400 L0.0Quant Date : 12/18/2023 11:20 am

Compound #63: Endosulfan Sulfate #2



Original Peak Response = 78499163



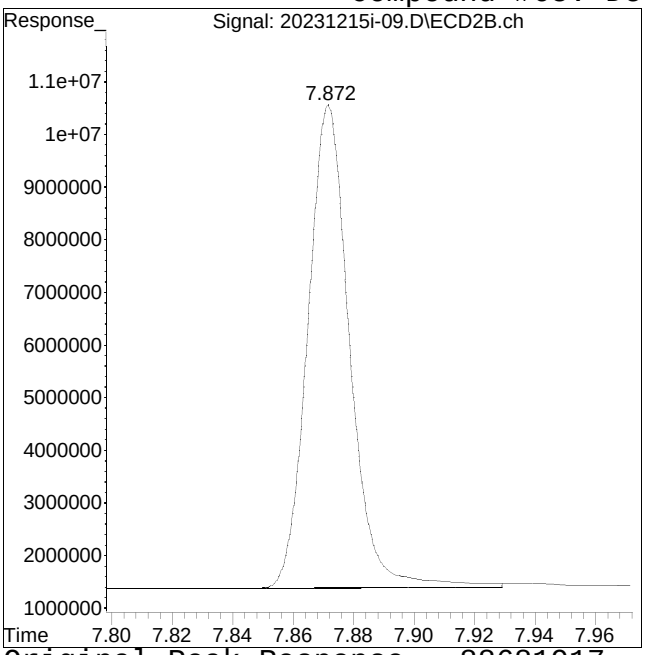
Manual Peak Response = 77938452 M4

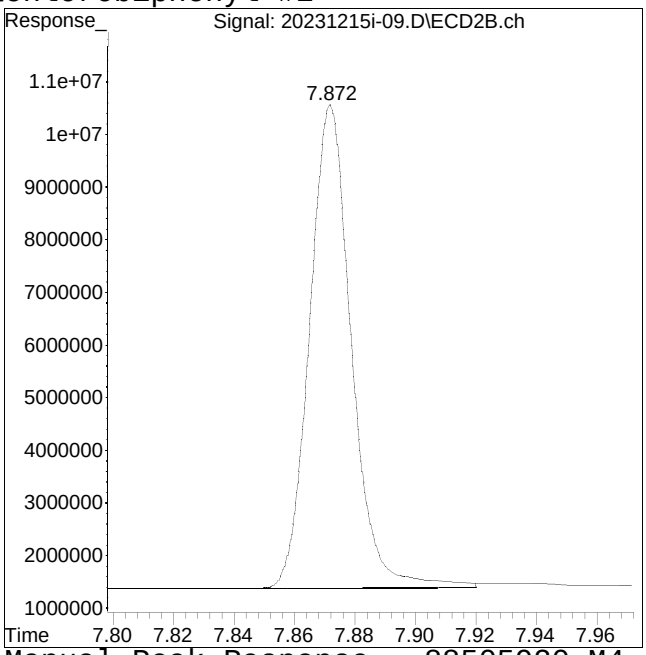
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2023\231215QMethod : pest20_2023_12_15_ugL_IC
Data File : 20231215i-09.D Operator : pest20:ejl
Date Inj'd : 12/15/2023 6:13 pm Instrument : PEST 20
Sample : il8pest,42e,,pp 11400 L0.0Quant Date : 12/18/2023 11:20 am

Compound #65: Decachlorobiphenyl #2





Original Peak Response = 88681917 Manual Peak Response = 88505920 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest20\2023\231215ical\
Data File : 20231215i-10.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Dec 2023 06:26 pm
Operator : pest20:ejl
Sample : il9pest,42e,,pp 11399 L0.1
Misc : wg1865714,ical (Sig #1); ical (Sig #2)
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 18 11:28:14 2023
Quant Method : I:\PEST\Pest20\2023\231215ical\pest20_2023_12_15_ugL_ICAL.m
Quant Title : pest
QLast Update : Mon Dec 18 11:23:06 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	1.828	1.992	45865702	44081655	25.000	25.000
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	2.285	2.602	179.3E6	188.4E6	97.053	96.440
	Spiked Amount 50.000	Range 30 - 150		Recovery =		194.11%#	192.88%#
27) s	Decachlorobi	7.154	7.871	184.0E6	164.7E6	94.423	94.205
	Spiked Amount 50.000	Range 30 - 150		Recovery =		188.85%#	188.41%#
	Target Compounds						
3)	Hexachlorobe	2.543	2.980	196.1E6	193.8E6	95.792	94.976
4)	alpha-BHC	2.663	3.094	245.0E6	245.5E6	99.969	99.037
5)	gamma-BHC (l	2.898	3.419	217.4E6	219.0E6	99.108	98.428
6)	beta-BHC	2.966	3.494	98801562	103.1E6	95.236	94.912
7)	delta-BHC	3.110	3.790	222.7E6	225.5E6	99.573	99.396
8)	Heptachlor	3.288	3.860	194.0E6	184.9E6	98.170M3	97.653
9)	Aldrin	3.556	4.209	212.8E6	205.6E6	98.841	98.485
10)	Alachlor	3.700	4.085	30344202	28002552	90.432	91.253
11)	Chlorpyrifos	3.799	4.467	82341586	90876423	93.037	93.376
12)	Heptachlor E	4.150	4.871	187.7E6	191.2E6	97.032	97.426
13)	gamma-Chlord	4.282	5.086	177.2E6	170.2E6	97.860M4	97.852M3
14)	alpha-Chlord	4.427	5.245	201.5E6	192.2E6	97.337	97.729M4
15)	4,4'-DDE	4.533	5.428	207.0E6	199.1E6	99.556	99.238M4
16)	Endosulfan I	4.571	5.304	182.8E6	181.0E6	98.020	98.341M4
17)	Dieldrin	4.846	5.582	192.1E6	187.0E6	98.906	98.990M4
18)	Endrin	5.097	5.870	185.9E6	184.6E6	98.367	98.120
19)	4,4'-DDD	5.204	5.981	154.2E6	151.3E6	99.241M4	99.122
20)	Endosulfan I	5.331	6.062	164.2E6	162.5E6	97.343M4	97.575M4
21)	4,4'-DDT	5.489	6.251	149.1E6	149.9E6	99.644	99.293M3

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest20\2023\231215ical\
Data File : 20231215i-10.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Dec 2023 06:26 pm
Operator : pest20:ejl
Sample : il9pest,42e,,pp 11399 L0.1
Misc : wg1865714,ical (Sig #1); ical (Sig #2)
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 18 11:28:14 2023
Quant Method : I:\PEST\Pest20\2023\231215ical\pest20_2023_12_15_ugL_ICAL.m
Quant Title : pest
QLast Update : Mon Dec 18 11:23:06 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
22)	Endrin Aldeh	5.742	6.351	142.1E6	141.1E6	98.470	98.490M4
23)	Methoxychlor	5.966	6.803	81355592	81945196	95.668	95.892
24)	Mirex	6.026	6.956	140.6E6	133.8E6	94.427	94.428
25)	Endosulfan S	6.128	6.576	151.1E6	149.3E6	95.912M3	96.968M4
26)	Endrin Keton	6.356	6.988	167.8E6	169.0E6	97.059	98.473
29) l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

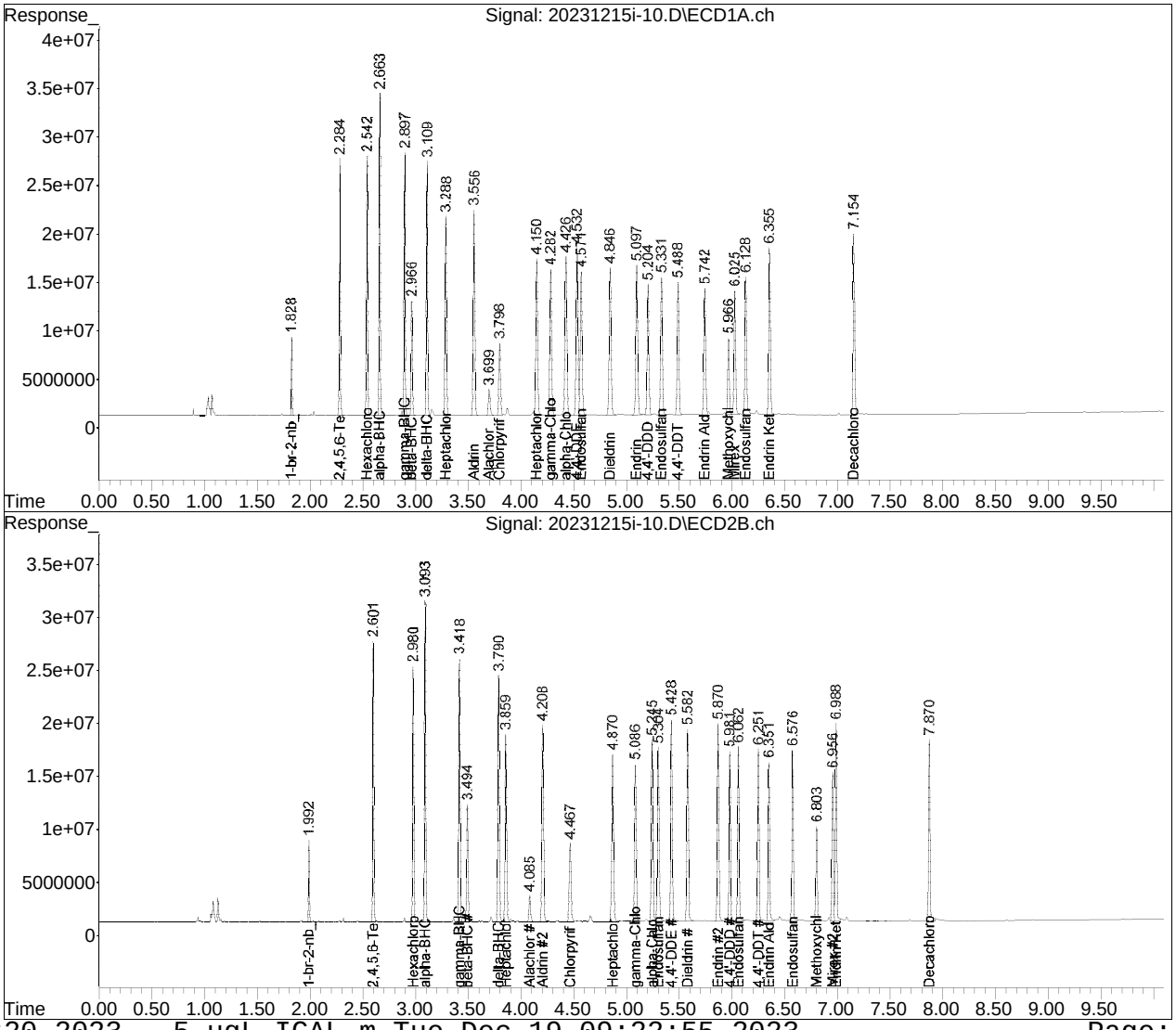
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest20\2023\231215ical\
Data File : 20231215i-10.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Dec 2023 06:26 pm
Operator : pest20:ejl
Sample : il9pest,42e,,pp 11399 L0.1
Misc : wg1865714,ical (Sig #1); ical (Sig #2)
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 18 11:28:14 2023
Quant Method : I:\PEST\Pest20\2023\231215ical\pest20_2023_12_15_ugL_ICAL.m
Quant Title : pest
QLast Update : Mon Dec 18 11:23:06 2023
Response via : Initial Calibration
Integrator: ChemStation

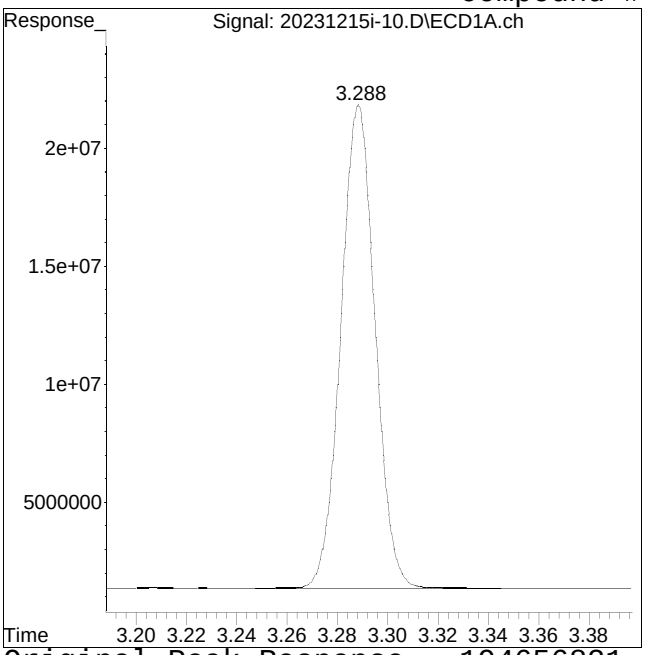
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

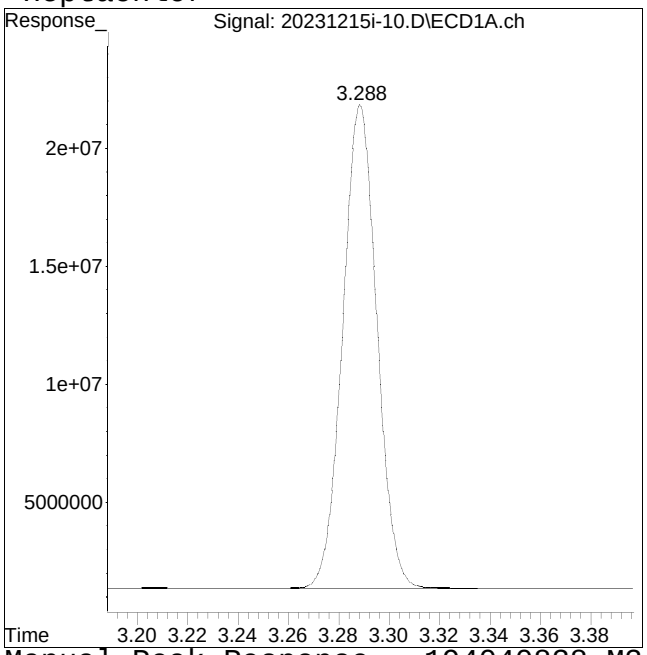


Manual Integration Report

Data Path : I:\PEST\Pest20\2023\231215QMethod : pest20_2023_12_15_ugL_IC
Data File : 20231215i-10.D Operator : pest20:ejl
Date Inj'd : 12/15/2023 6:26 pm Instrument : PEST 20
Sample : il9pest,42e,,pp 11399 L0.1Quant Date : 12/18/2023 11:23 am

Compound #8: Heptachlor



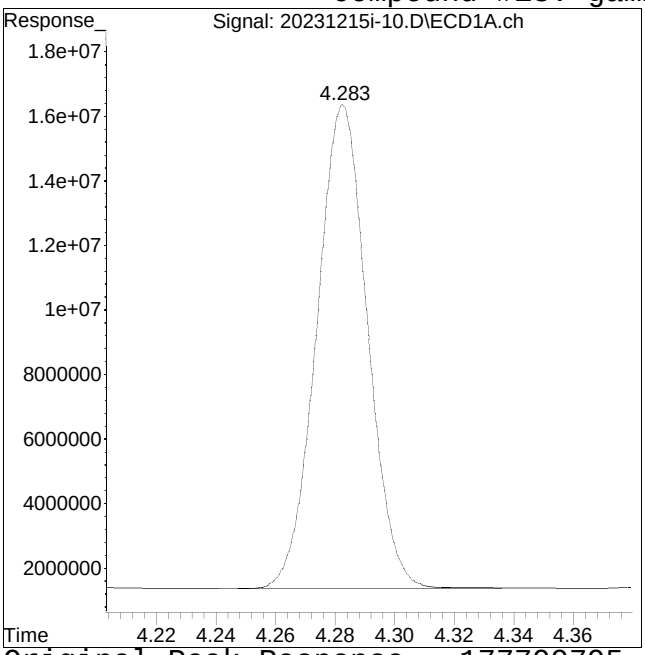


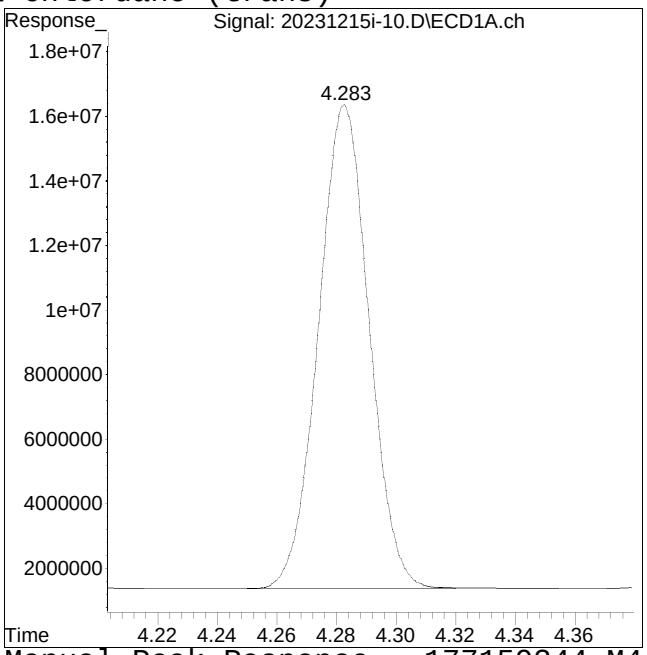
Original Peak Response = 194656821 Manual Peak Response = 194040838 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest20\2023\231215QMethod : pest20_2023_12_15_ugL_IC
Data File : 20231215i-10.D Operator : pest20:ejl
Date Inj'd : 12/15/2023 6:26 pm Instrument : PEST 20
Sample : il9pest,42e,,pp 11399 L0.1Quant Date : 12/18/2023 11:23 am

Compound #13: gamma-Chlordane (trans)



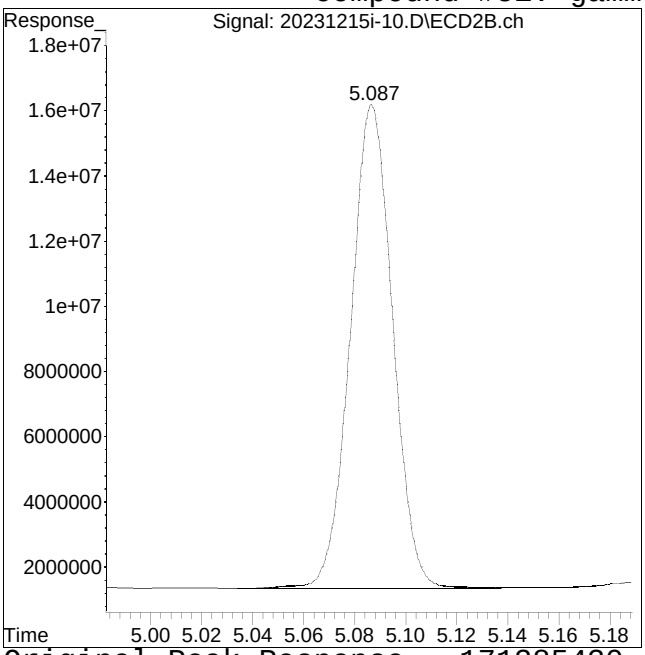


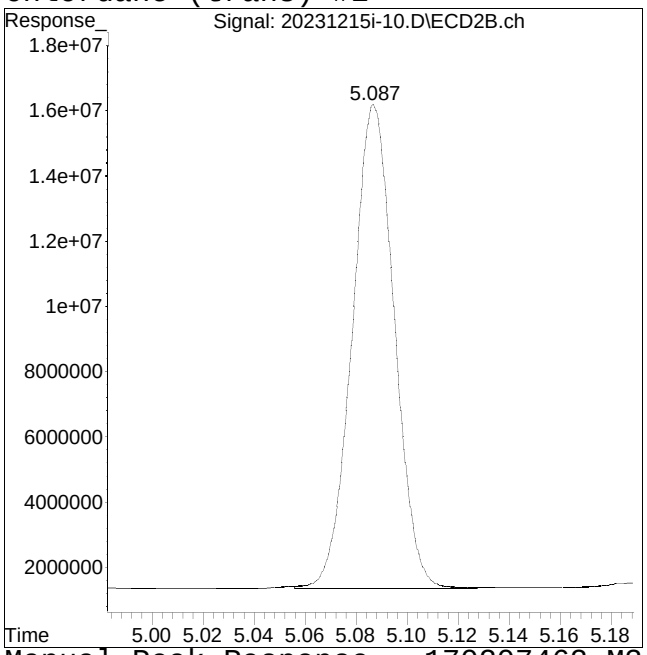
Original Peak Response = 177799795 Manual Peak Response = 177159344 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2023\231215QMethod : pest20_2023_12_15_ugL_IC
Data File : 20231215i-10.D Operator : pest20:ejl
Date Inj'd : 12/15/2023 6:26 pm Instrument : PEST 20
Sample : il9pest,42e,,pp 11399 L0.1Quant Date : 12/18/2023 11:23 am

Compound #51: gamma-Chlordane (trans) #2



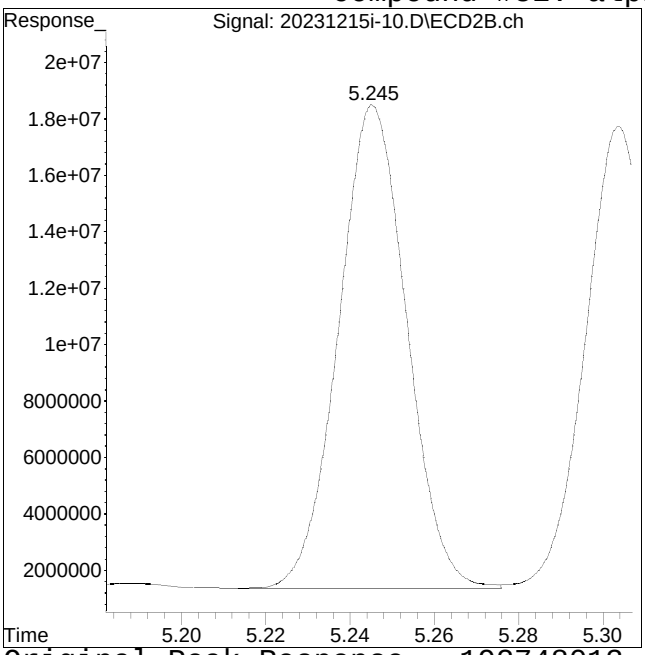


Original Peak Response = 171385430 Manual Peak Response = 170207462 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

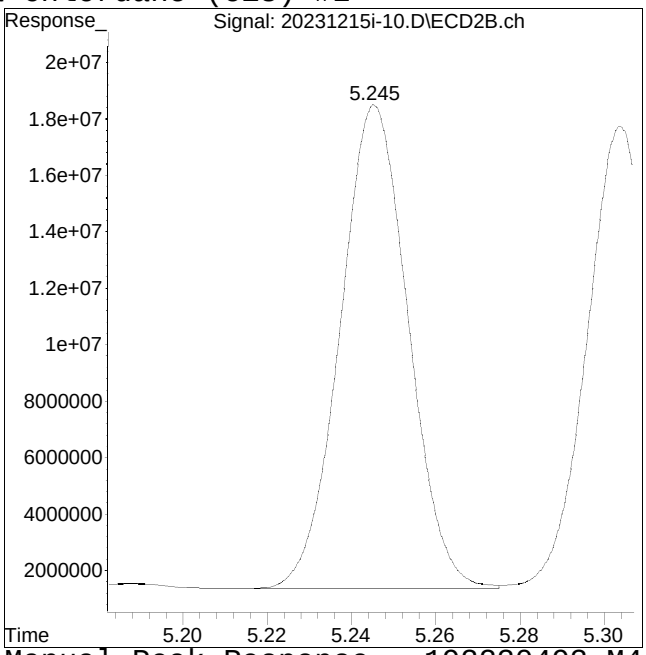
Manual Integration Report

Data Path : I:\PEST\Pest20\2023\231215QMethod : pest20_2023_12_15_ugL_IC
Data File : 20231215i-10.D Operator : pest20:ejl
Date Inj'd : 12/15/2023 6:26 pm Instrument : PEST 20
Sample : il9pest,42e,,pp 11399 L0.1Quant Date : 12/18/2023 11:23 am

Compound #52: alpha-Chlordane (cis) #2



Original Peak Response = 192748013



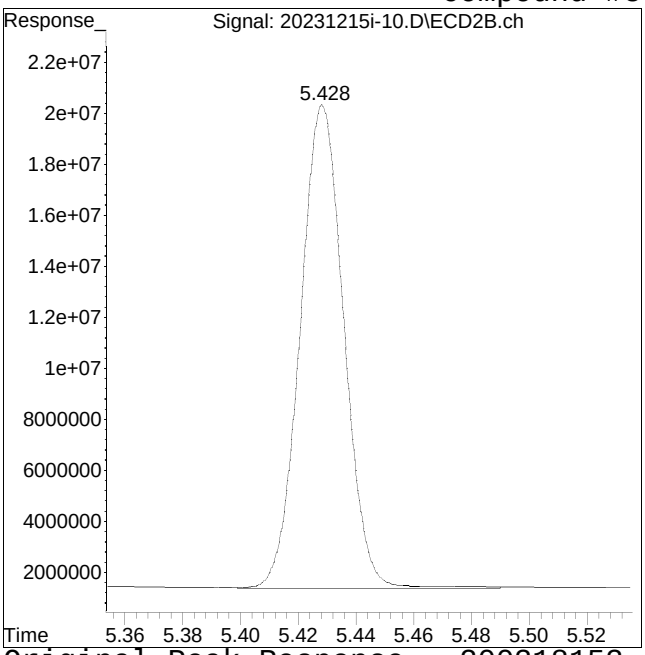
Manual Peak Response = 192230493 M4

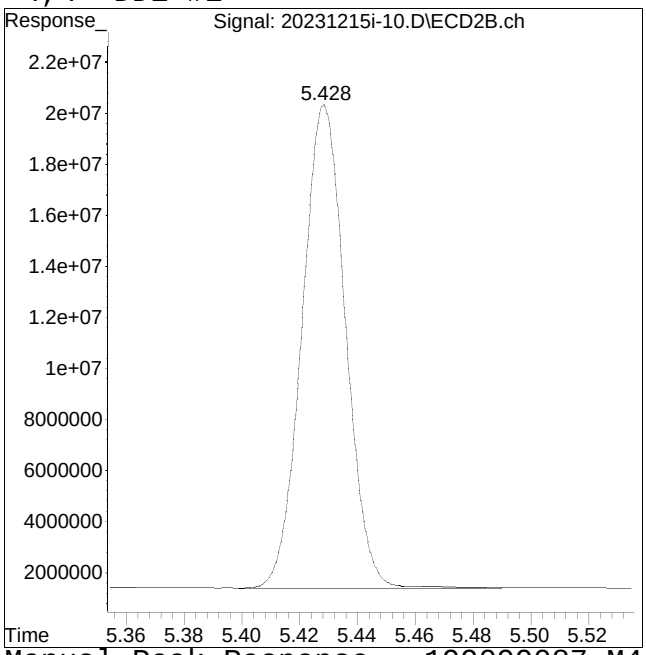
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2023\231215QMethod : pest20_2023_12_15_ugL_IC
Data File : 20231215i-10.D Operator : pest20:ejl
Date Inj'd : 12/15/2023 6:26 pm Instrument : PEST 20
Sample : il9pest,42e,,pp 11399 L0.1Quant Date : 12/18/2023 11:23 am

Compound #53: 4,4'-DDE #2



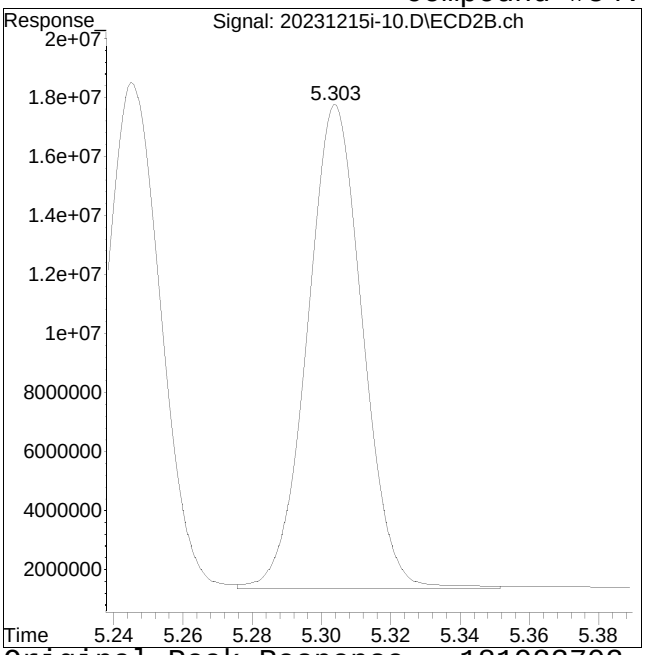


Original Peak Response = 200318153 Manual Peak Response = 199099087 M4
M4 = Poor automated baseline construction.

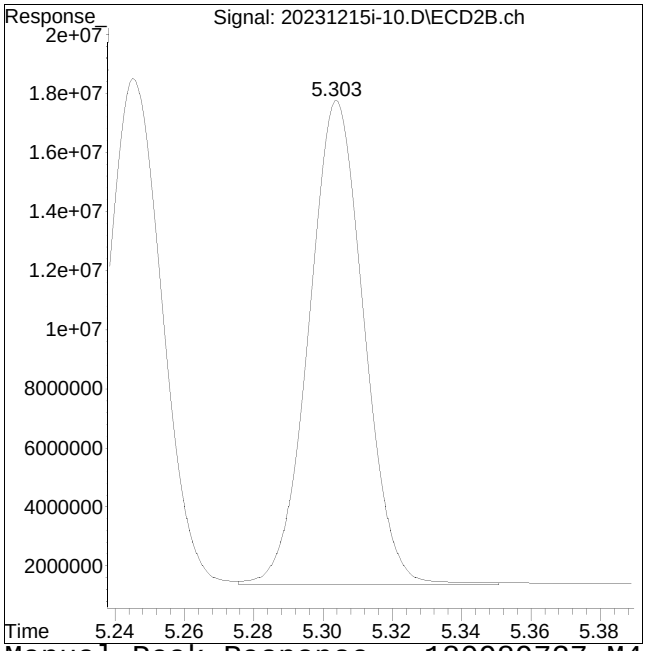
Manual Integration Report

Data Path : I:\PEST\Pest20\2023\231215Q
Data File : 20231215i-10.D
Date Inj'd : 12/15/2023 6:26 pm
Sample : il9pest,42e,,pp 11399 L0.1
Method : pest20_2023_12_15_ugL_IC
Operator : pest20:ejl
Instrument : PEST 20
Quant Date : 12/18/2023 11:23 am

Compound #54: Endosulfan I #2



Original Peak Response = 181923702



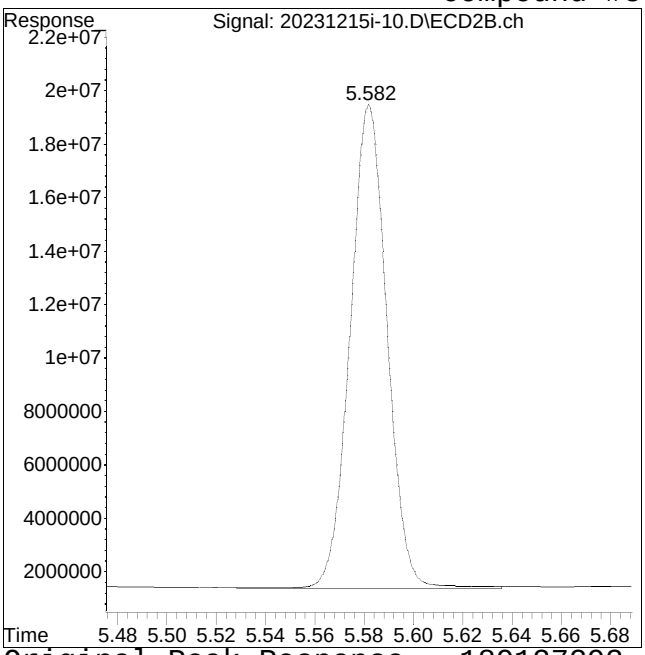
Manual Peak Response = 180989737 M4

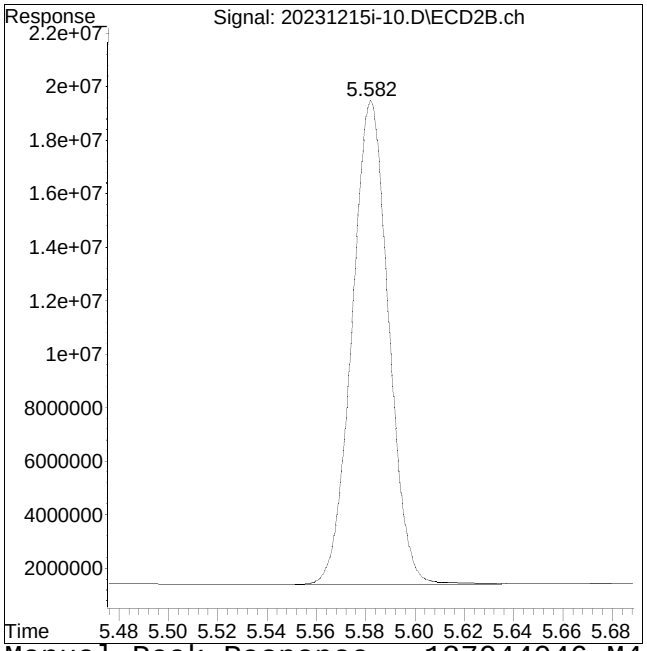
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2023\231215QMethod : pest20_2023_12_15_ugL_IC
Data File : 20231215i-10.D Operator : pest20:ejl
Date Inj'd : 12/15/2023 6:26 pm Instrument : PEST 20
Sample : il9pest,42e,,pp 11399 L0.1Quant Date : 12/18/2023 11:23 am

Compound #55: Dieldrin #2



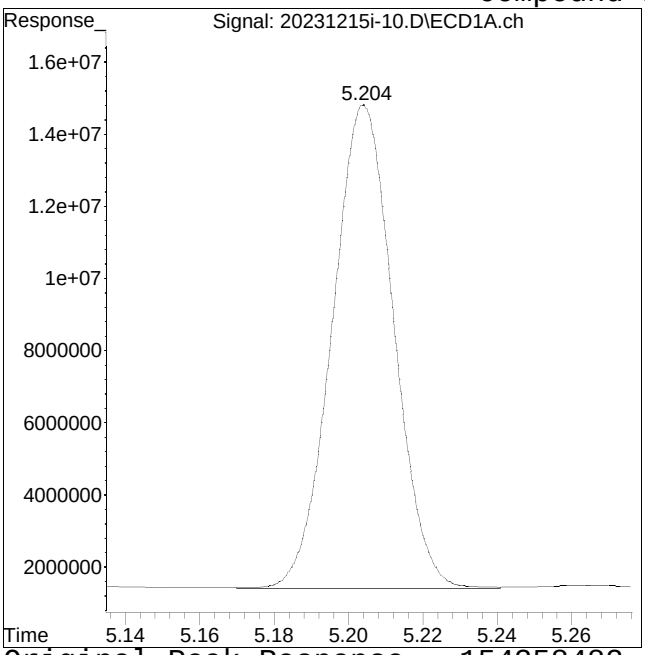


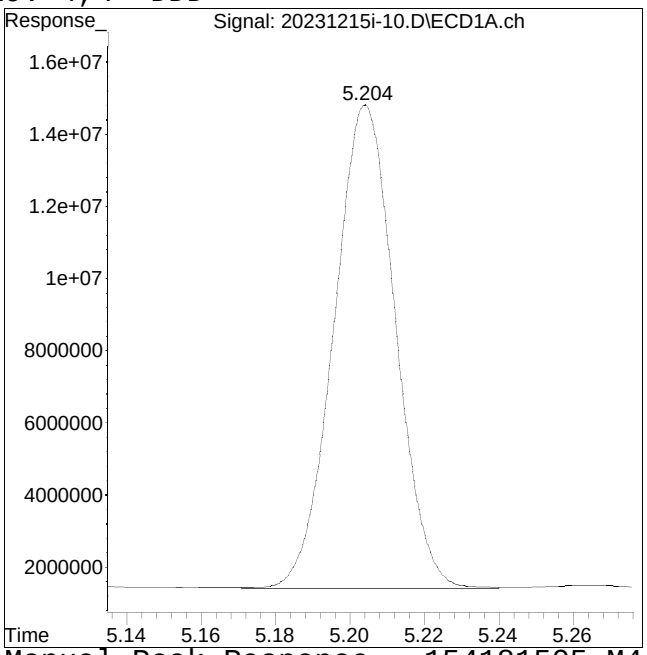
Original Peak Response = 189127293 Manual Peak Response = 187044046 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2023\231215QMethod : pest20_2023_12_15_ugL_IC
Data File : 20231215i-10.D Operator : pest20:ejl
Date Inj'd : 12/15/2023 6:26 pm Instrument : PEST 20
Sample : il9pest,42e,,pp 11399 L0.1Quant Date : 12/18/2023 11:23 am

Compound #19: 4,4'-DDD



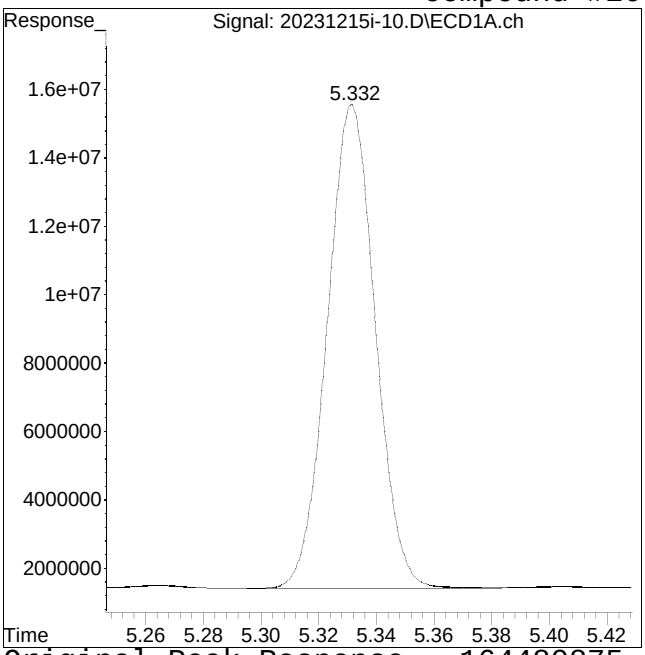


Original Peak Response = 154358482 Manual Peak Response = 154181505 M4
M4 = Poor automated baseline construction.

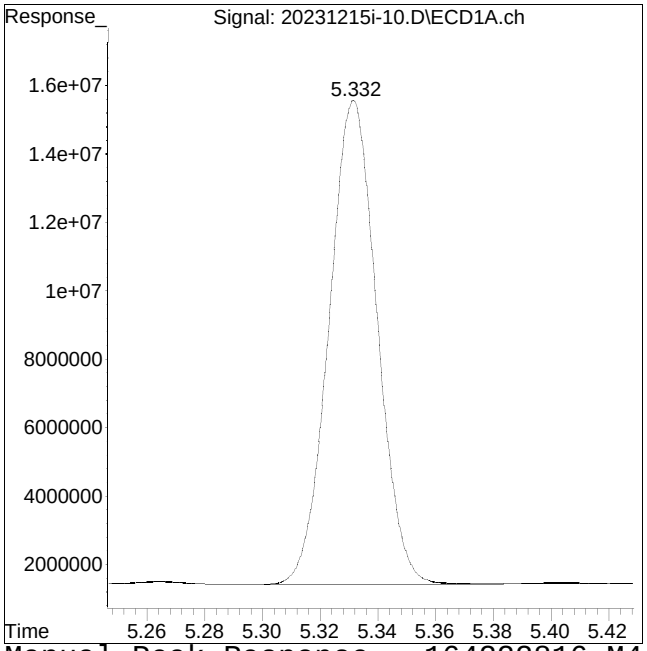
Manual Integration Report

Data Path : I:\PEST\Pest20\2023\231215QMethod : pest20_2023_12_15_ugL_IC
Data File : 20231215i-10.D Operator : pest20:ejl
Date Inj'd : 12/15/2023 6:26 pm Instrument : PEST 20
Sample : il9pest,42e,,pp 11399 L0.1Quant Date : 12/18/2023 11:23 am

Compound #20: Endosulfan II



Original Peak Response = 164480875



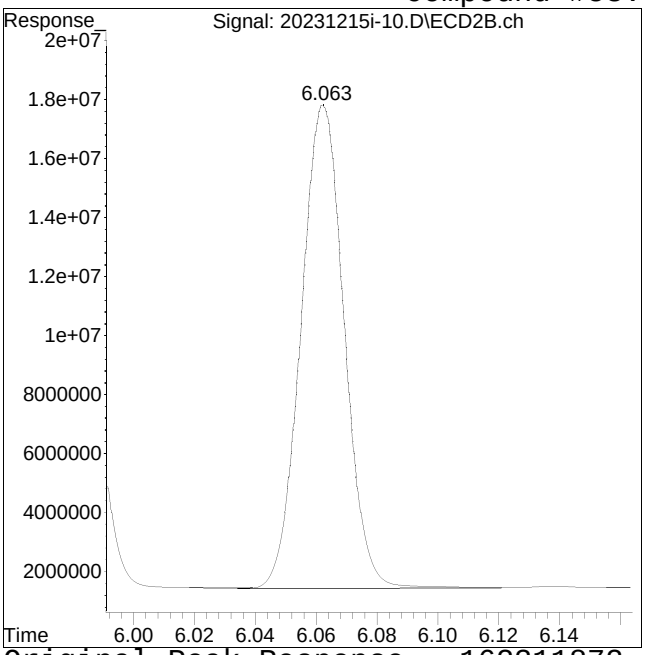
Manual Peak Response = 164222816 M4

M4 = Poor automated baseline construction.

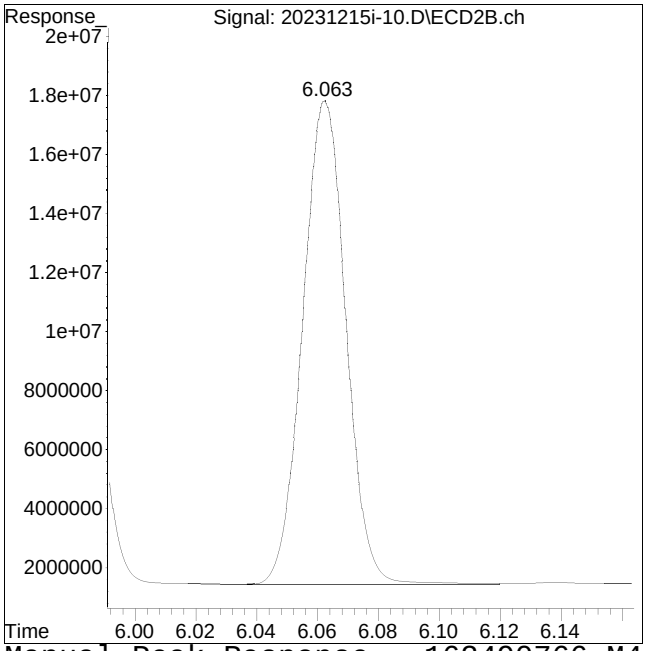
Manual Integration Report

Data Path : I:\PEST\Pest20\2023\231215QMethod : pest20_2023_12_15_ugL_IC
Data File : 20231215i-10.D Operator : pest20:ejl
Date Inj'd : 12/15/2023 6:26 pm Instrument : PEST 20
Sample : il9pest,42e,,pp 11399 L0.1Quant Date : 12/18/2023 11:23 am

Compound #58: Endosulfan II #2



Original Peak Response = 162311872



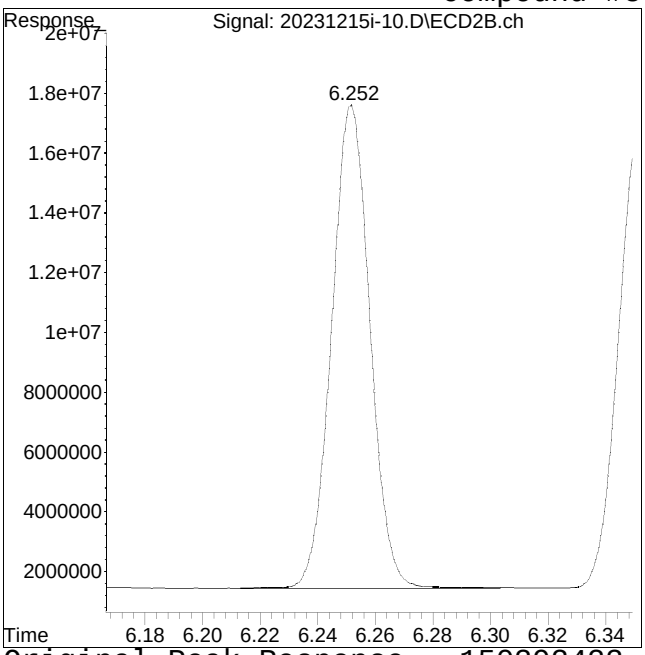
Manual Peak Response = 162490766 M4

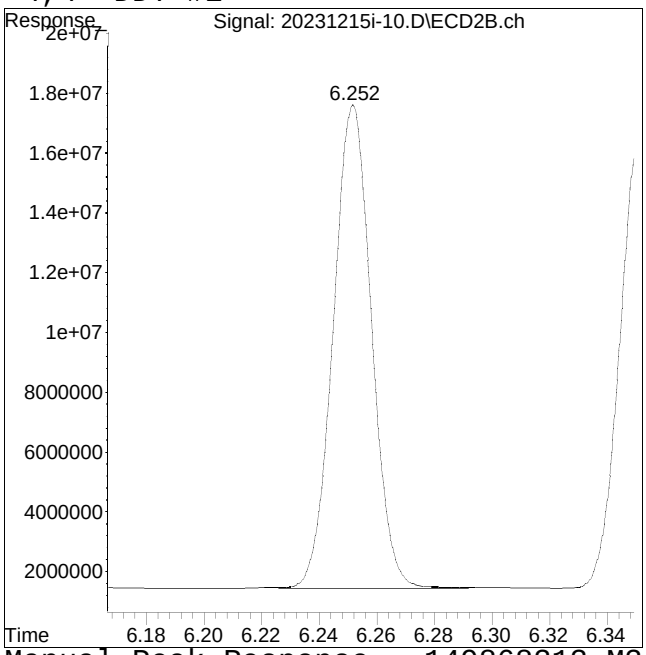
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2023\231215QMethod : pest20_2023_12_15_ugL_IC
Data File : 20231215i-10.D Operator : pest20:ejl
Date Inj'd : 12/15/2023 6:26 pm Instrument : PEST 20
Sample : il9pest,42e,,pp 11399 L0.1Quant Date : 12/18/2023 11:23 am

Compound #59: 4,4'-DDT #2



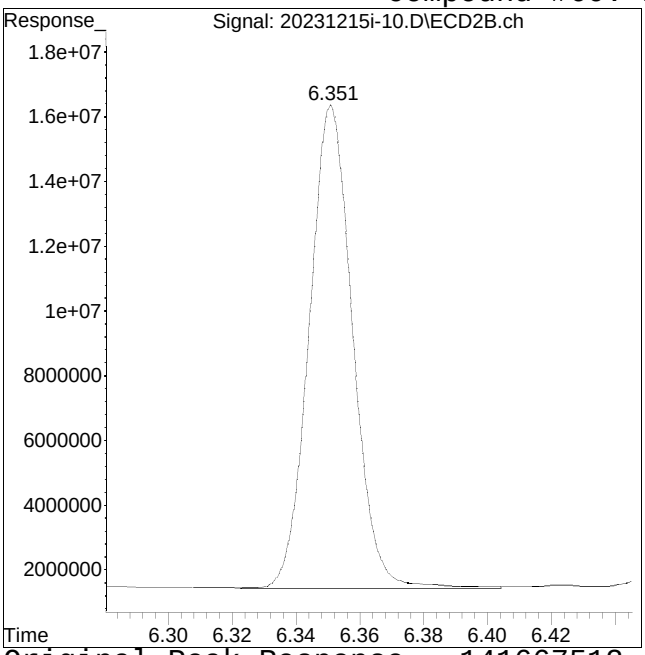


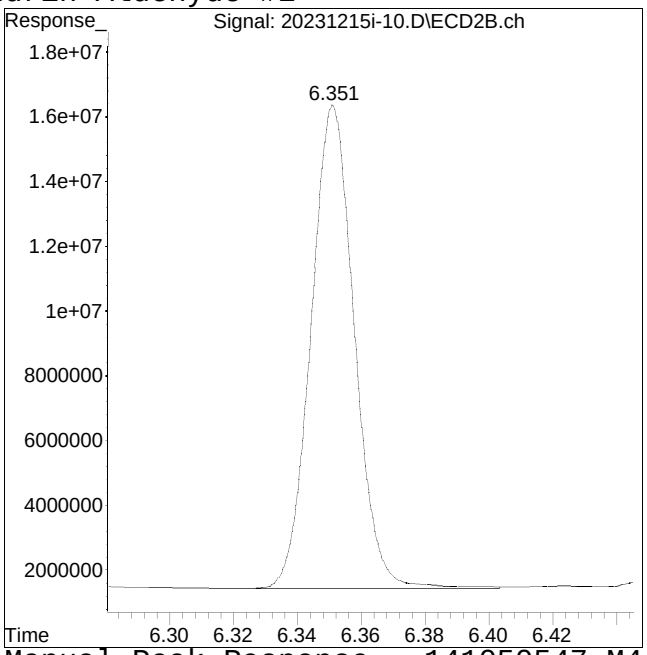
Original Peak Response = 150392423 Manual Peak Response = 149868313 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest20\2023\231215QMethod : pest20_2023_12_15_ugL_IC
Data File : 20231215i-10.D Operator : pest20:ejl
Date Inj'd : 12/15/2023 6:26 pm Instrument : PEST 20
Sample : il9pest,42e,,pp 11399 L0.1Quant Date : 12/18/2023 11:23 am

Compound #60: Endrin Aldehyde #2



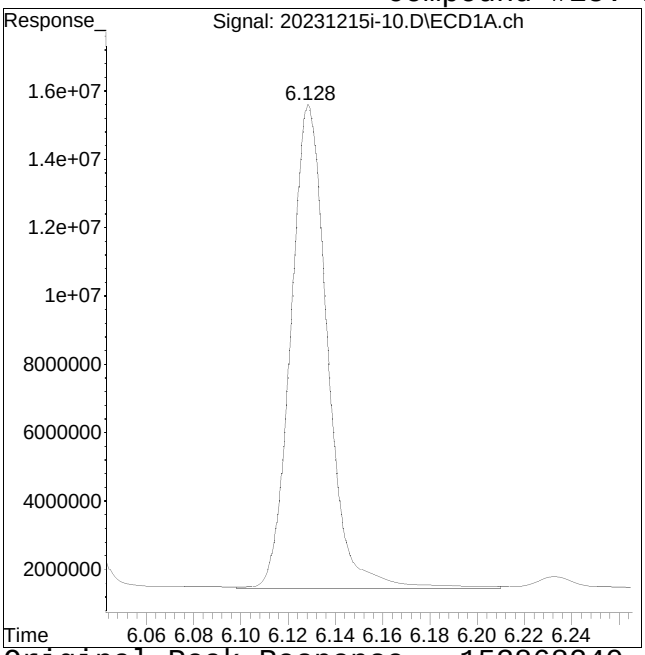


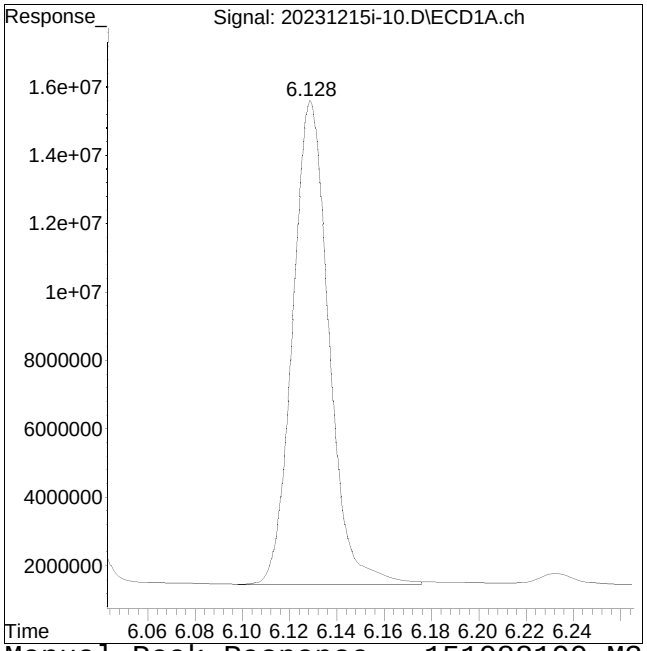
Original Peak Response = 141667512 Manual Peak Response = 141050547 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2023\231215QMethod : pest20_2023_12_15_ugL_IC
Data File : 20231215i-10.D Operator : pest20:ejl
Date Inj'd : 12/15/2023 6:26 pm Instrument : PEST 20
Sample : il9pest,42e,,pp 11399 L0.1Quant Date : 12/18/2023 11:23 am

Compound #25: Endosulfan Sulfate



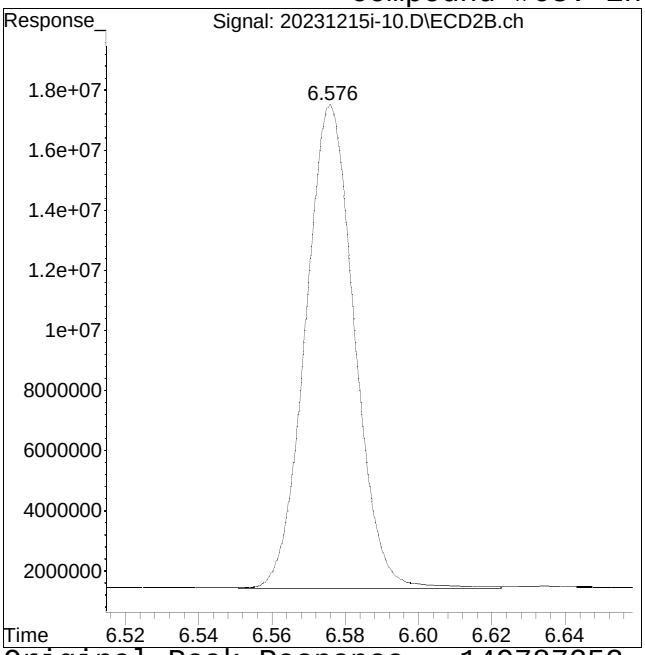


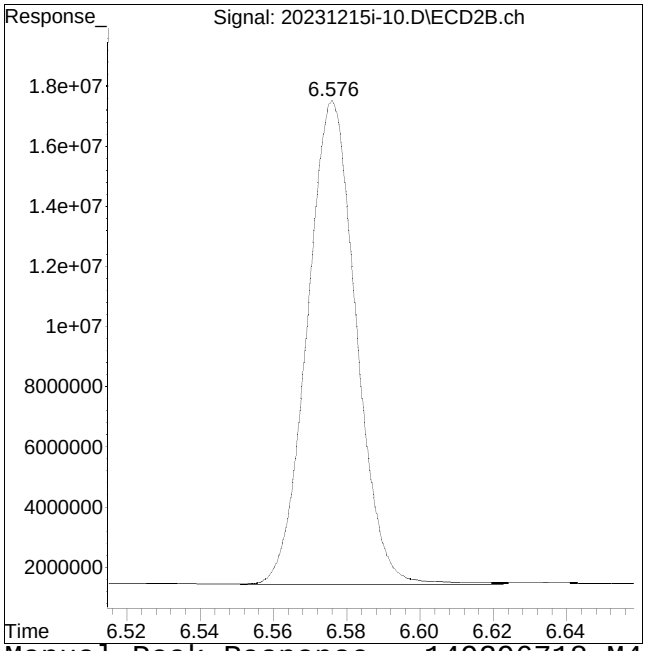
Original Peak Response = 153868240 Manual Peak Response = 151088190 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest20\2023\231215QMethod : pest20_2023_12_15_ugL_IC
Data File : 20231215i-10.D Operator : pest20:ejl
Date Inj'd : 12/15/2023 6:26 pm Instrument : PEST 20
Sample : il9pest,42e,,pp 11399 L0.1Quant Date : 12/18/2023 11:23 am

Compound #63: Endosulfan Sulfate #2





Original Peak Response = 149787252 Manual Peak Response = 149296718 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest20\2023\231215ical\
Data File : 20231215i-11.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Dec 2023 06:38 pm
Operator : pest20:ejl
Sample : il10pest,42e,,pp 11398 L0.2
Misc : wg1865714,ical (Sig #1); ical (Sig #2)
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 18 11:33:32 2023
Quant Method : I:\PEST\Pest20\2023\231215ical\pest20_2023_12_15_ugL_ICAL.m
Quant Title : pest
QLast Update : Mon Dec 18 11:28:38 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	1.829	2.007f	46992930	44860055	25.000	25.000
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	2.285	2.617	369.8E6	386.0E6	198.360M3	197.632
	Spiked Amount 50.000	Range 30 - 150		Recovery =		396.72%#	395.26%#
27) s	Decachlorobi	7.155	7.888f	364.5E6	320.3E6	187.839M4	185.375
	Spiked Amount 50.000	Range 30 - 150		Recovery =		375.68%#	370.75%#
	Target Compounds						
3)	Hexachlorobe	2.544	2.996	403.4E6	394.4E6	196.506	194.774
4)	alpha-BHC	2.664	3.109	518.4E6	517.0E6	206.485M4	205.906
5)	gamma-BHC (l	2.899	3.434	457.8E6	457.1E6	204.601	203.452
6)	beta-BHC	2.968	3.510f	201.8E6	209.7E6	194.453	194.674M3
7)	delta-BHC	3.111	3.805	471.3E6	473.9E6	206.148M4	205.855M4
8)	Heptachlor	3.290	3.875f	398.2E6	378.7E6	198.426	198.835
9)	Aldrin	3.558	4.224	447.0E6	427.8E6	203.837	202.863
10)	Alachlor	3.702	4.100	59676395	54109628	182.303	181.194
11)	Chlorpyrifos	3.800	4.482	158.3E6	175.1E6	180.914	182.887
12)	Heptachlor E	4.152	4.886f	388.7E6	394.1E6	199.115	199.870
13)	gamma-Chlord	4.284	5.102f	369.5E6	351.1E6	201.338M4	200.478M3
14)	alpha-Chlord	4.428	5.260	415.3E6	394.1E6	198.456M4	199.148M4
15)	4,4'-DDE	4.534	5.444f	430.3E6	406.9E6	202.469M4	200.039M3
16)	Endosulfan I	4.572	5.319	376.3E6	372.4E6	198.895M4	200.499M3
17)	Dieldrin	4.847	5.597f	398.7E6	386.3E6	201.434M4	201.904M3

Data Path : I:\PEST\Pest20\2023\231215ical\
Data File : 20231215i-11.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Dec 2023 06:38 pm
Operator : pest20:ejl
Sample : il10pest,42e,,pp 11398 L0.2
Misc : wg1865714,ical (Sig #1); ical (Sig #2)
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 18 11:33:32 2023
Quant Method : I:\PEST\Pest20\2023\231215ical\pest20_2023_12_15_ugL_ICAL.m
Quant Title : pest
QLast Update : Mon Dec 18 11:28:38 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
18)	Endrin	5.098	5.885f	381.2E6	379.8E6	198.525M4	200.259M4
19)	4,4'-DDD	5.205	5.996f	317.2E6	310.2E6	200.012M4	200.587M3
20)	Endosulfan I	5.333	6.077	334.9E6	329.5E6	196.380M4	196.837M3
21)	4,4'-DDT	5.489	6.266	301.3E6	299.4E6	196.921M3	195.627M3
22)	Endrin Aldeh	5.743	6.366	285.3E6	283.0E6	194.394M4	195.641M4
23)	Methoxychlor	5.967	6.819f	155.3E6	156.8E6	182.159M4	184.116
24)	Mirex	6.026	6.972	275.9E6	262.4E6	186.011M3	187.175
25)	Endosulfan S	6.130	6.591f	305.7E6	300.5E6	193.331M3	194.769
26)	Endrin Keton	6.356	7.003	335.4E6	335.0E6	192.129M4	193.239M3
29) l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest20\2023\231215ical\
Data File : 20231215i-11.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Dec 2023 06:38 pm
Operator : pest20:ejl
Sample : il10pest,42e,,pp 11398 L0.2
Misc : wg1865714,ical (Sig #1); ical (Sig #2)
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 18 11:33:32 2023
Quant Method : I:\PEST\Pest20\2023\231215ical\pest20_2023_12_15_ugL_ICAL.m
Quant Title : pest
QLast Update : Mon Dec 18 11:28:38 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l

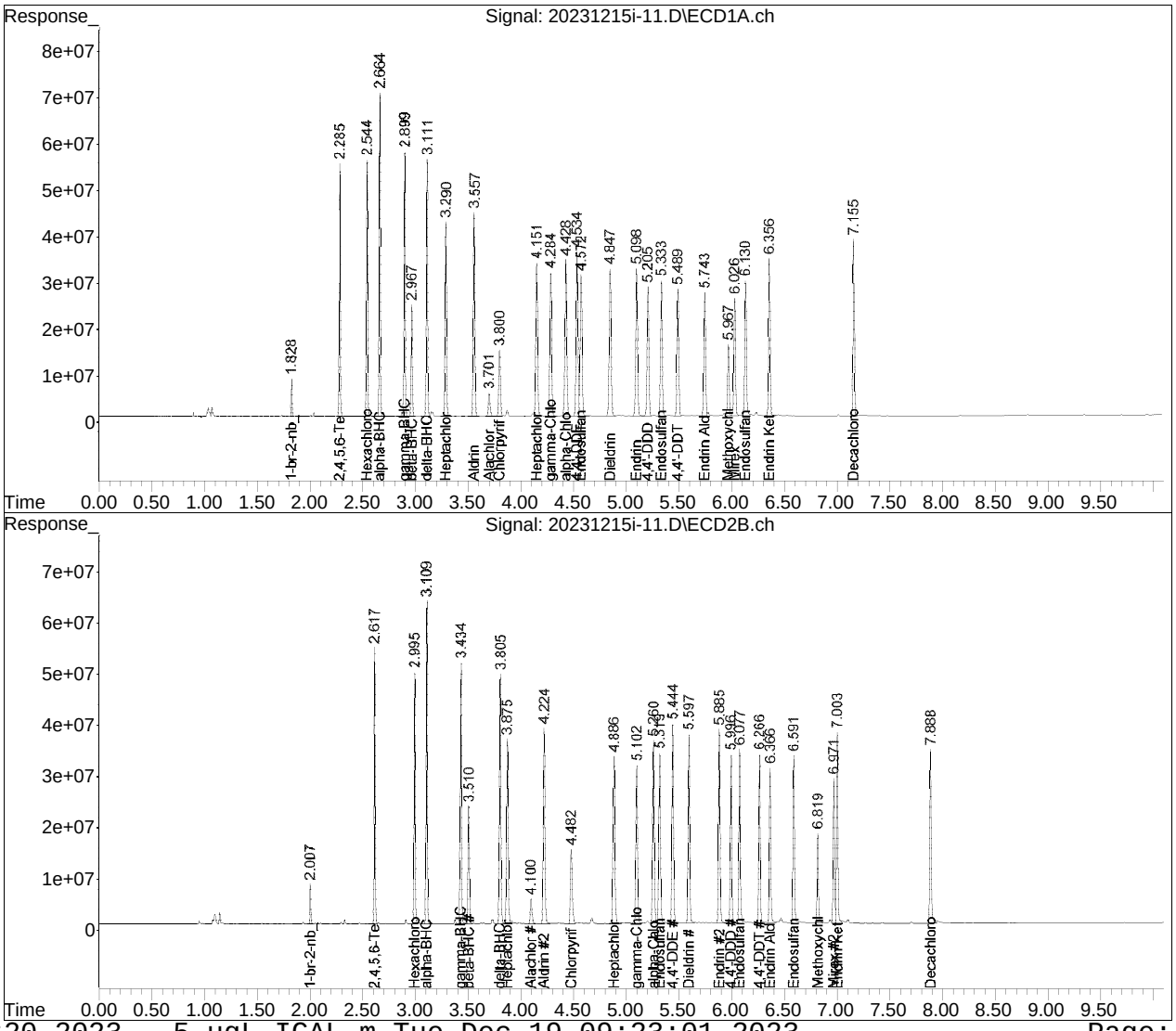
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest20\2023\231215ical\
Data File : 20231215i-11.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Dec 2023 06:38 pm
Operator : pest20:ejl
Sample : il10pest,42e,,pp 11398 L0.2
Misc : wg1865714,ical (Sig #1); ical (Sig #2)
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 18 11:33:32 2023
Quant Method : I:\PEST\Pest20\2023\231215ical\pest20_2023_12_15_ugL_ICAL.m
Quant Title : pest
QLast Update : Mon Dec 18 11:28:38 2023
Response via : Initial Calibration
Integrator: ChemStation

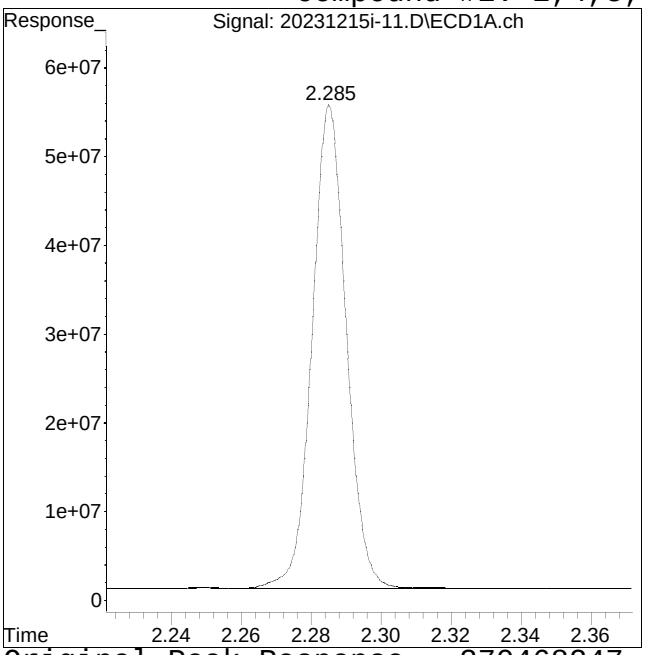
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

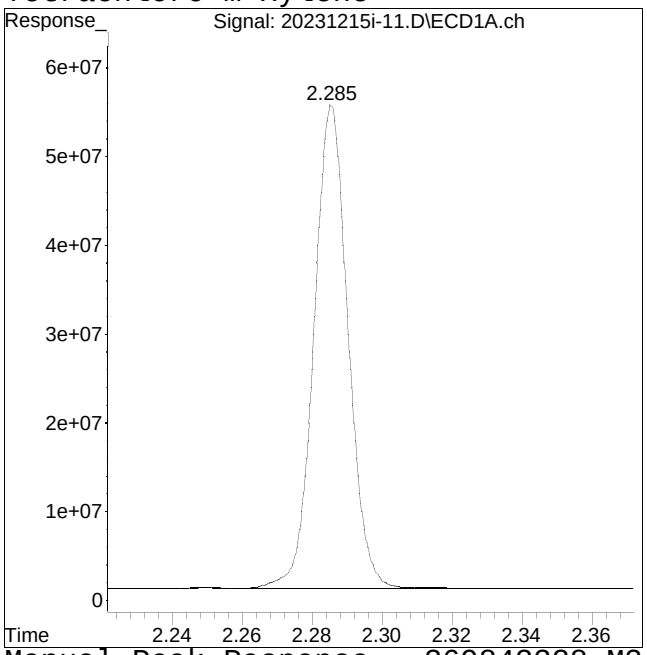


Manual Integration Report

Data Path : I:\PEST\Pest20\2023\231215QMethod : pest20_2023_12_15_ugL_IC
Data File : 20231215i-11.D Operator : pest20:ejl
Date Inj'd : 12/15/2023 6:38 pm Instrument : PEST 20
Sample : il10pest,42e,,pp 11398 L0.Quant Date : 12/18/2023 11:28 am

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



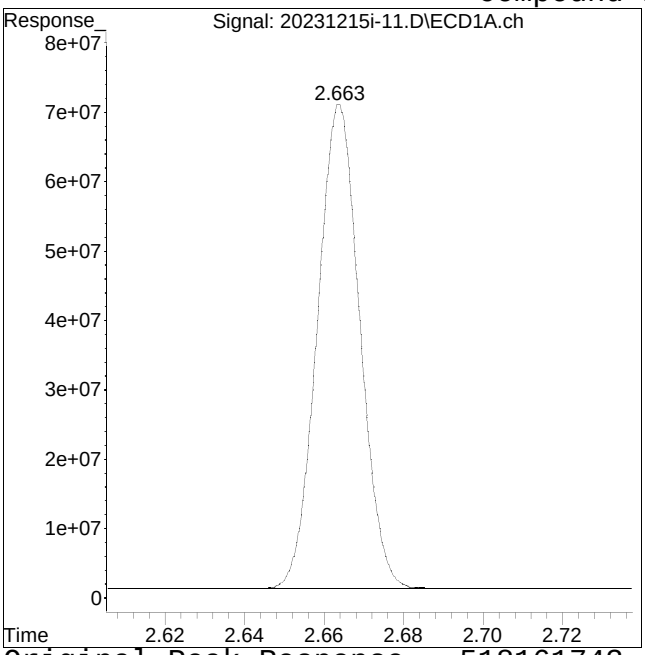


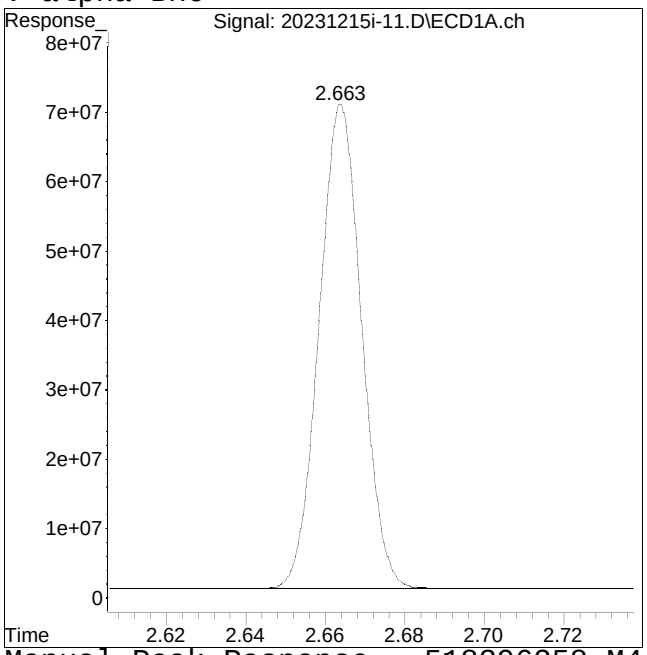
Original Peak Response = 370468247 Manual Peak Response = 369843328 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest20\2023\231215QMethod : pest20_2023_12_15_ugL_IC
Data File : 20231215i-11.D Operator : pest20:ejl
Date Inj'd : 12/15/2023 6:38 pm Instrument : PEST 20
Sample : il10pest,42e,,pp 11398 L0.Quant Date : 12/18/2023 11:28 am

Compound #4: alpha-BHC



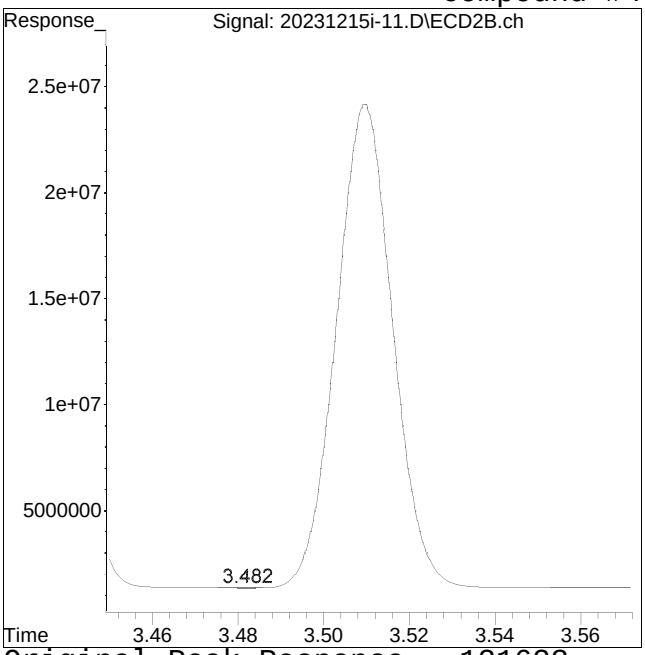


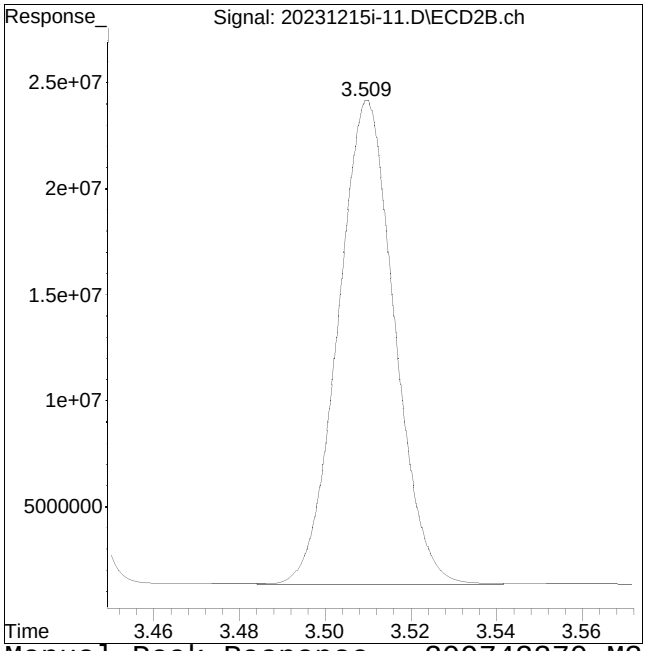
Original Peak Response = 518161743 Manual Peak Response = 518396258 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2023\231215QMethod : pest20_2023_12_15_ugL_IC
Data File : 20231215i-11.D Operator : pest20:ejl
Date Inj'd : 12/15/2023 6:38 pm Instrument : PEST 20
Sample : il10pest,42e,,pp 11398 L0.Quant Date : 12/18/2023 11:28 am

Compound #44: beta-BHC #2



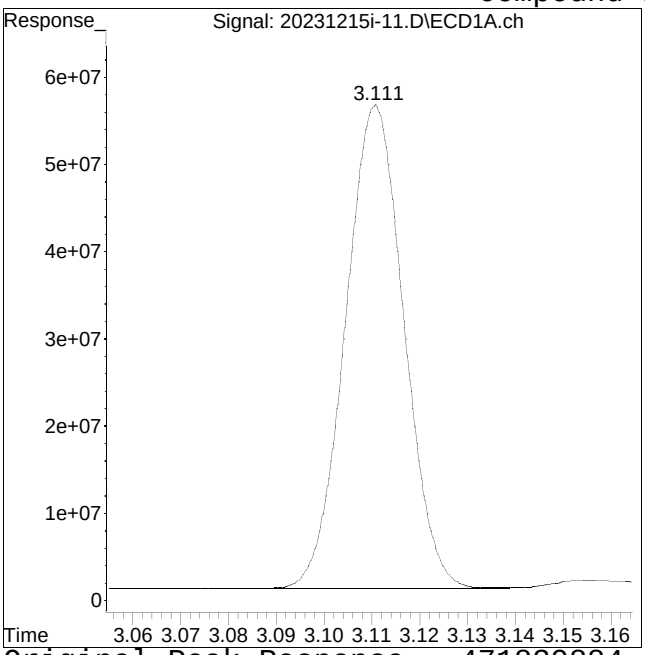


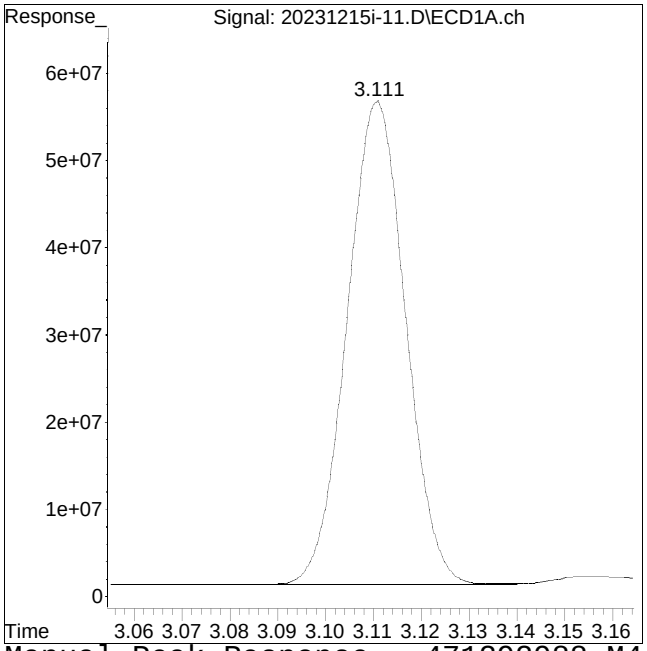
Original Peak Response = 121623 Manual Peak Response = 209743370 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest20\2023\231215QMethod : pest20_2023_12_15_ugL_IC
Data File : 20231215i-11.D Operator : pest20:ejl
Date Inj'd : 12/15/2023 6:38 pm Instrument : PEST 20
Sample : il10pest,42e,,pp 11398 L0.Quant Date : 12/18/2023 11:28 am

Compound #7: delta-BHC



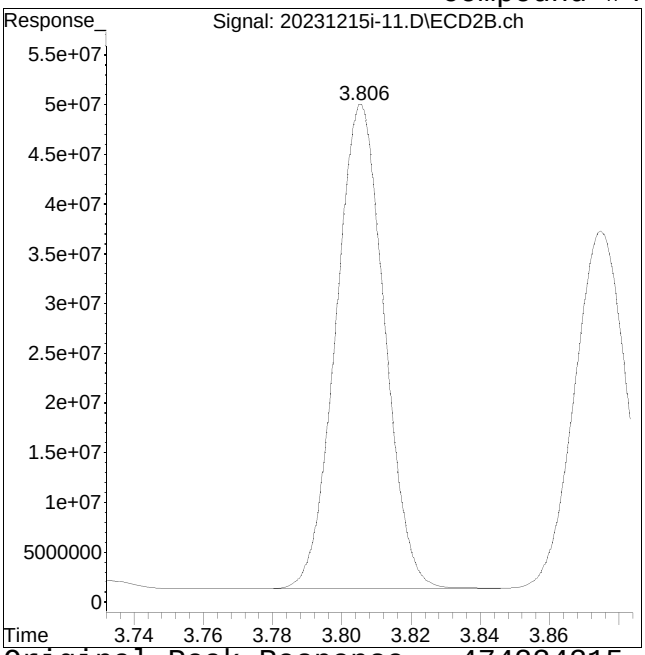


Original Peak Response = 471839884 Manual Peak Response = 471292988 M4
M4 = Poor automated baseline construction.

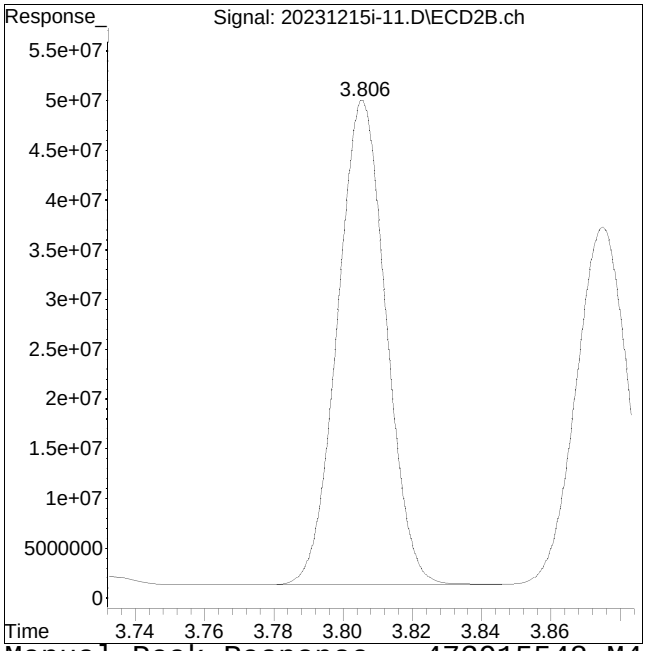
Manual Integration Report

Data Path : I:\PEST\Pest20\2023\231215QMethod : pest20_2023_12_15_ugL_IC
Data File : 20231215i-11.D Operator : pest20:ejl
Date Inj'd : 12/15/2023 6:38 pm Instrument : PEST 20
Sample : il10pest,42e,,pp 11398 L0.Quant Date : 12/18/2023 11:28 am

Compound #45: delta-BHC #2



Original Peak Response = 474234315



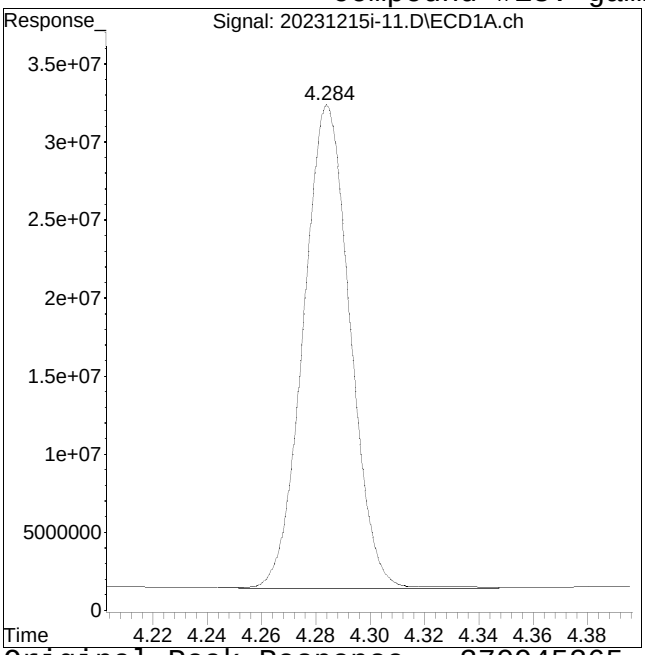
Manual Peak Response = 473915548 M4

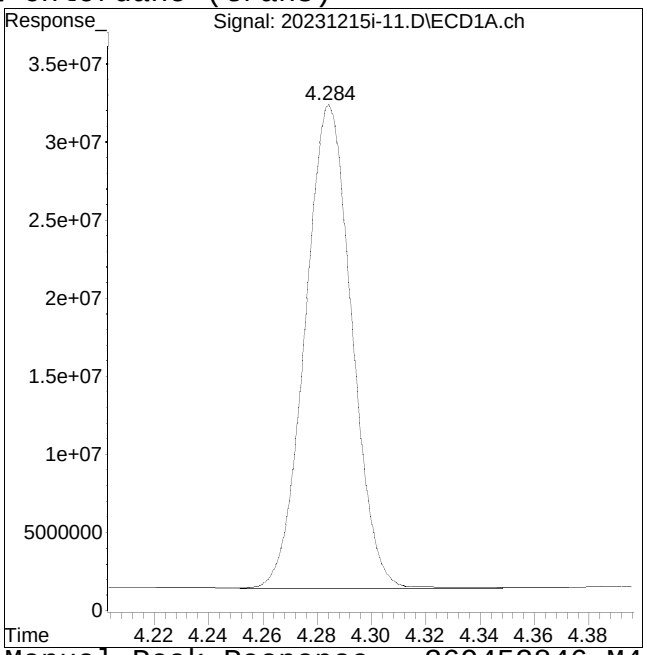
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2023\231215QMethod : pest20_2023_12_15_ugL_IC
Data File : 20231215i-11.D Operator : pest20:ejl
Date Inj'd : 12/15/2023 6:38 pm Instrument : PEST 20
Sample : il10pest,42e,,pp 11398 L0.Quant Date : 12/18/2023 11:28 am

Compound #13: gamma-Chlordane (trans)



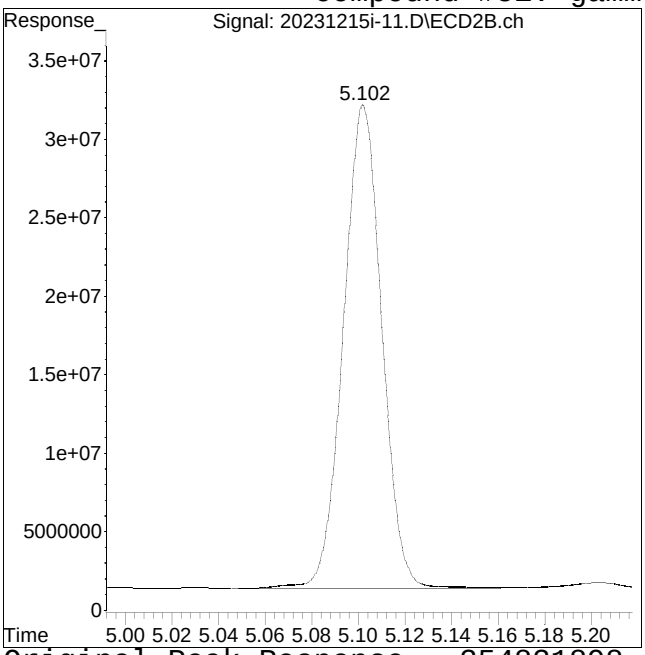


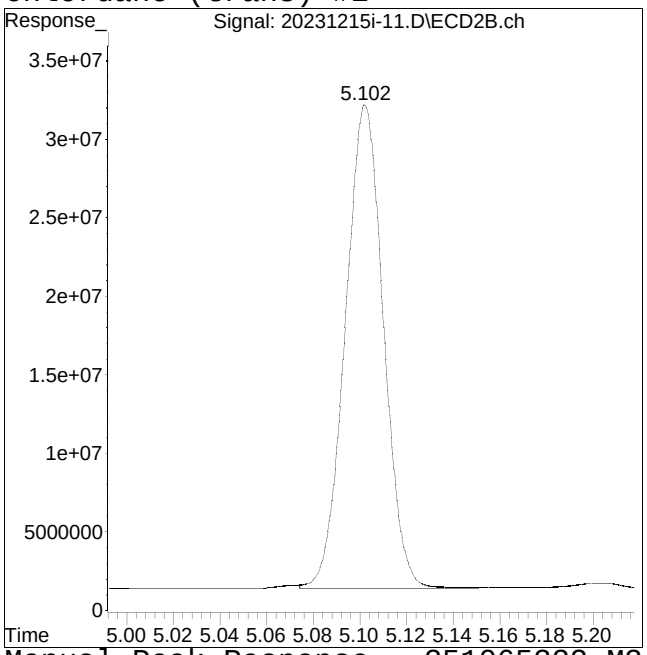
Original Peak Response = 370945365 Manual Peak Response = 369452846 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2023\231215QMethod : pest20_2023_12_15_ugL_IC
Data File : 20231215i-11.D Operator : pest20:ejl
Date Inj'd : 12/15/2023 6:38 pm Instrument : PEST 20
Sample : il10pest,42e,,pp 11398 L0.Quant Date : 12/18/2023 11:28 am

Compound #51: gamma-Chlordane (trans) #2



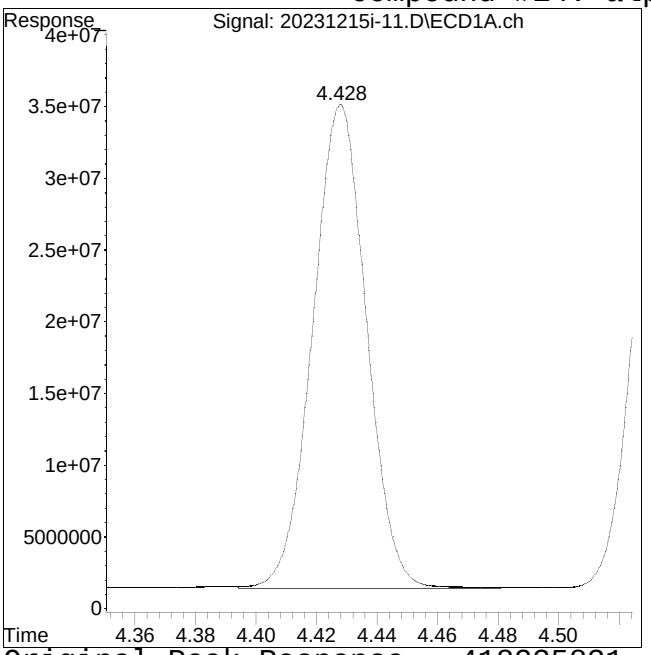


Original Peak Response = 354831898 Manual Peak Response = 351065322 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

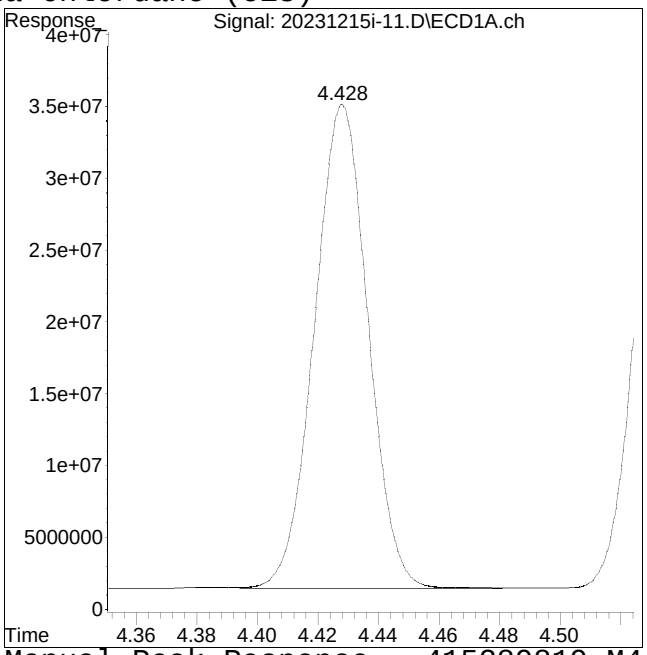
Manual Integration Report

Data Path : I:\PEST\Pest20\2023\231215QMethod : pest20_2023_12_15_ugL_IC
Data File : 20231215i-11.D Operator : pest20:ejl
Date Inj'd : 12/15/2023 6:38 pm Instrument : PEST 20
Sample : il10pest,42e,,pp 11398 L0.Quant Date : 12/18/2023 11:28 am

Compound #14: alpha-Chlordane (cis)



Original Peak Response = 418235831



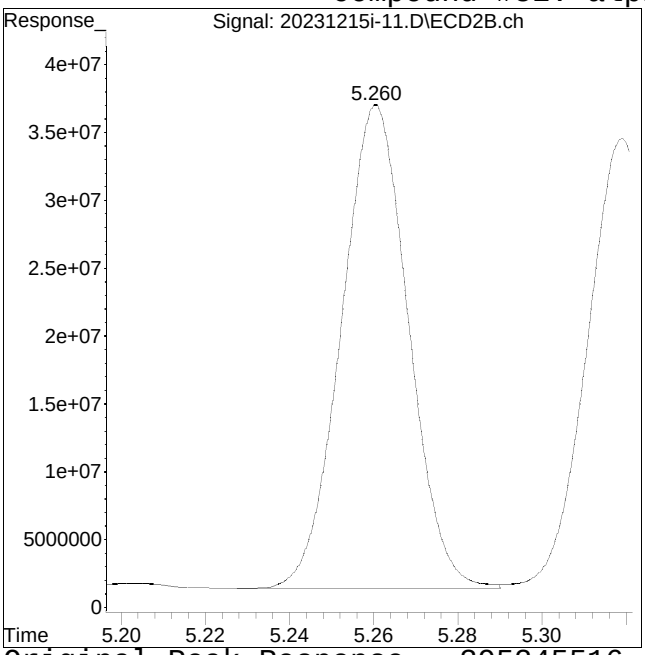
Manual Peak Response = 415289819 M4

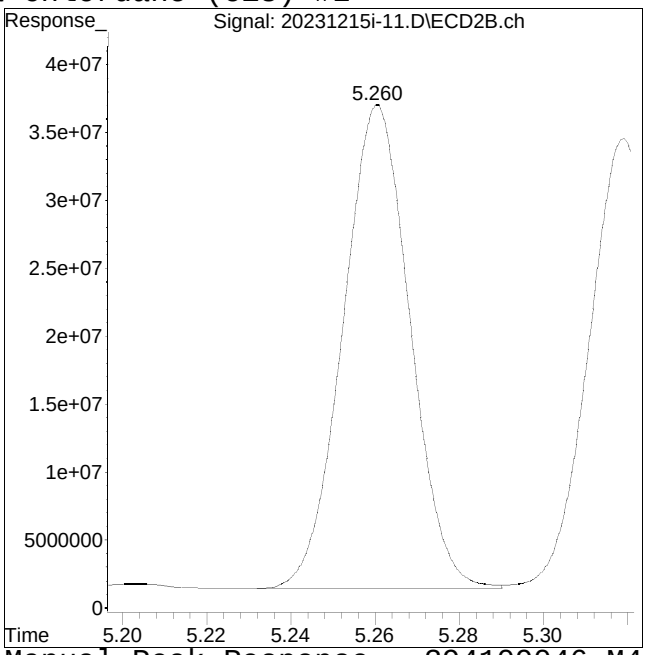
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2023\231215QMethod : pest20_2023_12_15_ugL_IC
Data File : 20231215i-11.D Operator : pest20:ejl
Date Inj'd : 12/15/2023 6:38 pm Instrument : PEST 20
Sample : il10pest,42e,,pp 11398 L0.Quant Date : 12/18/2023 11:28 am

Compound #52: alpha-Chlordane (cis) #2



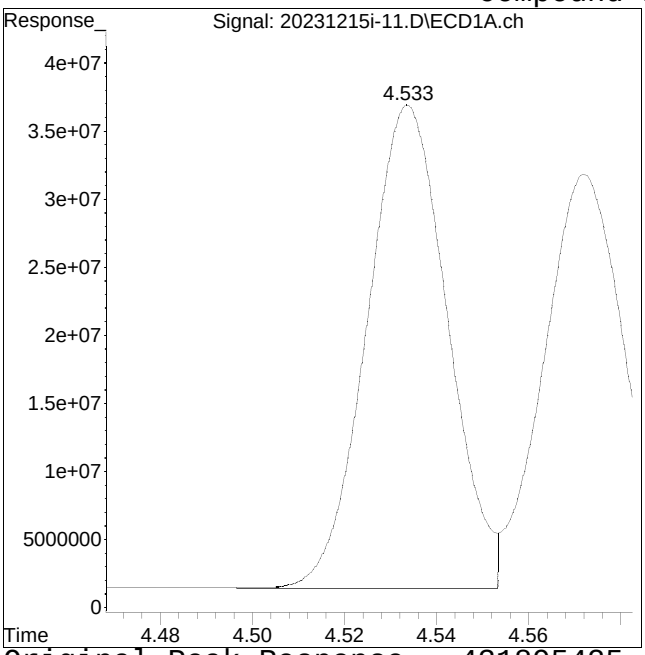


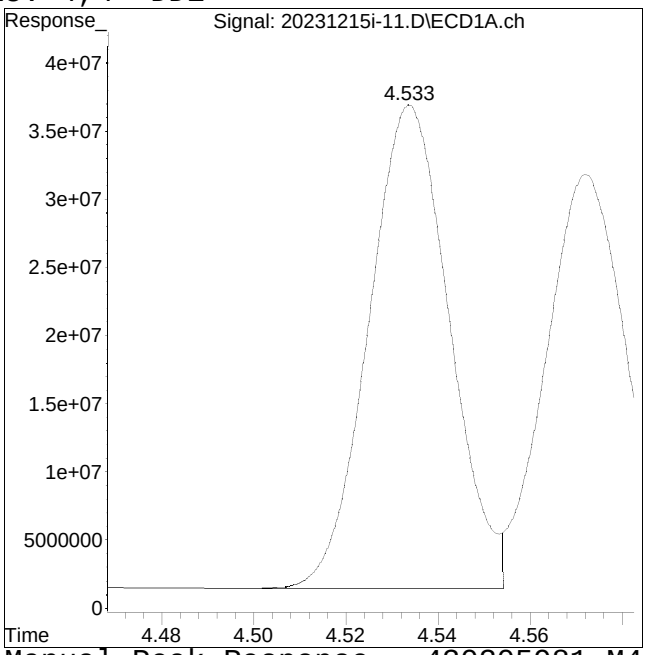
Original Peak Response = 395245516 Manual Peak Response = 394109046 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2023\231215QMethod : pest20_2023_12_15_ugL_IC
Data File : 20231215i-11.D Operator : pest20:ejl
Date Inj'd : 12/15/2023 6:38 pm Instrument : PEST 20
Sample : il10pest,42e,,pp 11398 L0.Quant Date : 12/18/2023 11:28 am

Compound #15: 4,4'-DDE



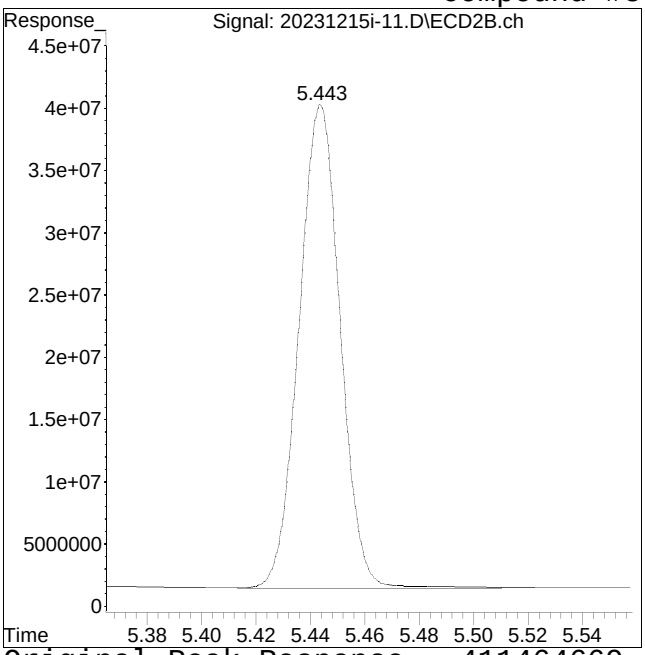


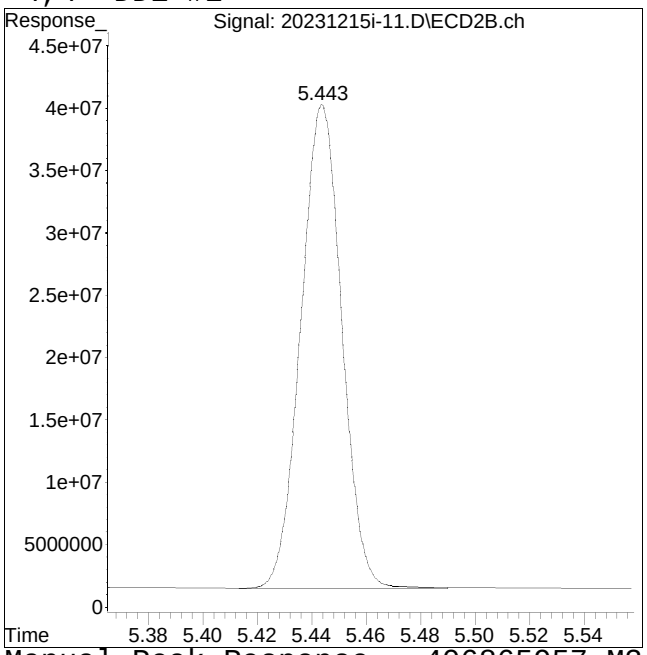
Original Peak Response = 431895425 Manual Peak Response = 430305981 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2023\231215QMethod : pest20_2023_12_15_ugL_IC
Data File : 20231215i-11.D Operator : pest20:ejl
Date Inj'd : 12/15/2023 6:38 pm Instrument : PEST 20
Sample : il10pest,42e,,pp 11398 L0.Quant Date : 12/18/2023 11:28 am

Compound #53: 4,4'-DDE #2



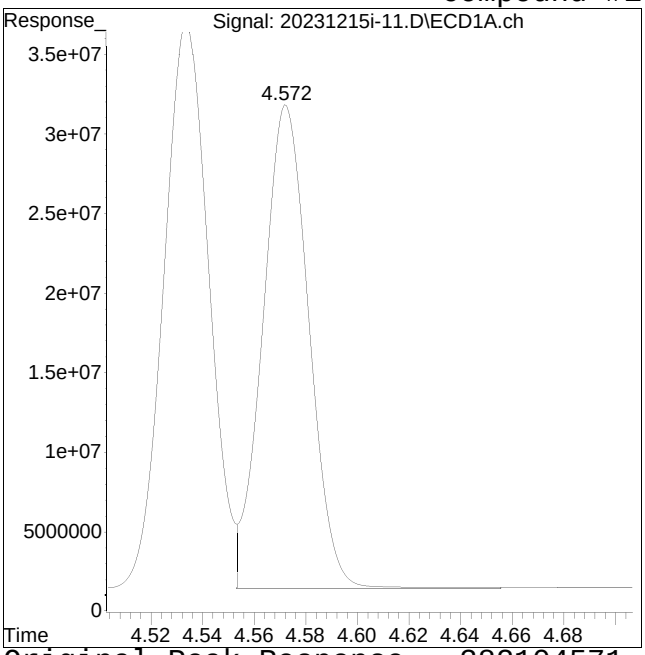


Original Peak Response = 411464669 Manual Peak Response = 406865957 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

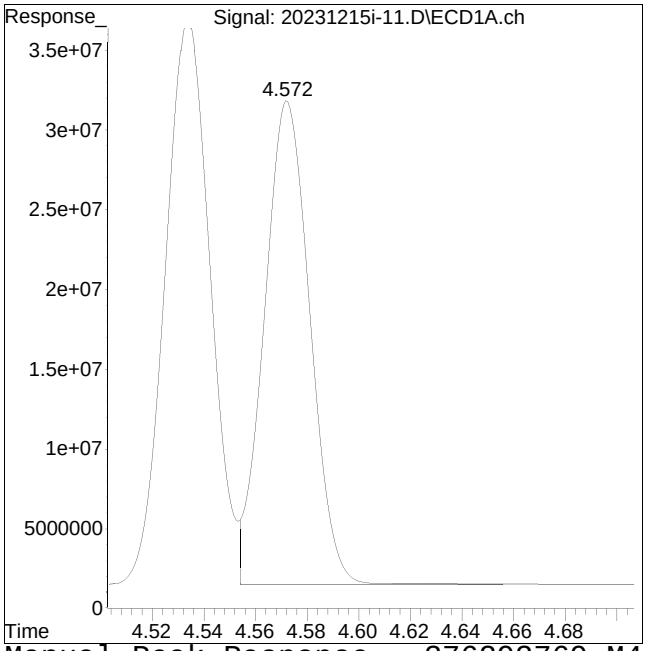
Manual Integration Report

Data Path : I:\PEST\Pest20\2023\231215QMethod : pest20_2023_12_15_ugL_IC
Data File : 20231215i-11.D Operator : pest20:ejl
Date Inj'd : 12/15/2023 6:38 pm Instrument : PEST 20
Sample : il10pest,42e,,pp 11398 L0.Quant Date : 12/18/2023 11:28 am

Compound #16: Endosulfan I



Original Peak Response = 382104571



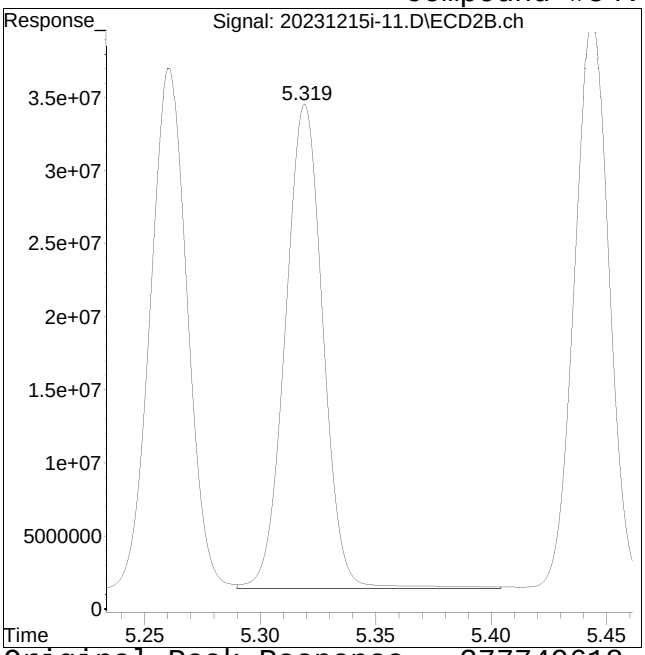
Manual Peak Response = 376293769 M4

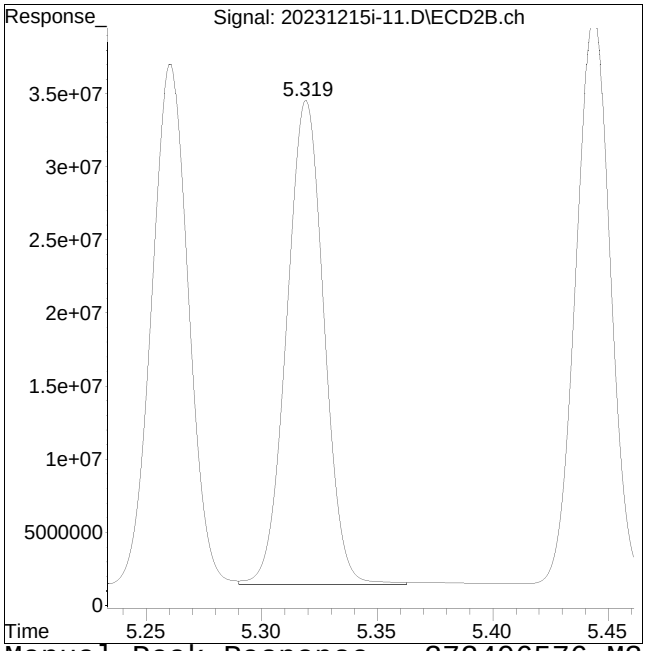
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2023\231215QMethod : pest20_2023_12_15_ugL_IC
Data File : 20231215i-11.D Operator : pest20:ejl
Date Inj'd : 12/15/2023 6:38 pm Instrument : PEST 20
Sample : il10pest,42e,,pp 11398 L0.Quant Date : 12/18/2023 11:28 am

Compound #54: Endosulfan I #2



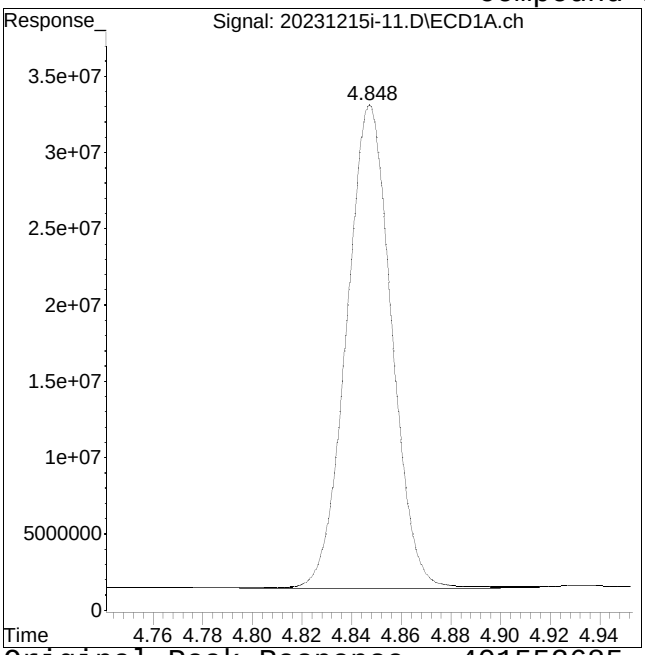


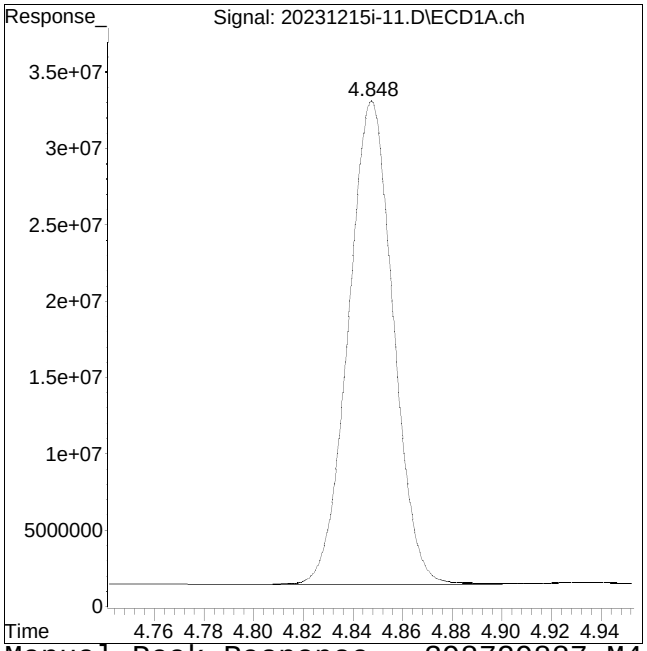
Original Peak Response = 377749618 Manual Peak Response = 372406576 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest20\2023\231215QMethod : pest20_2023_12_15_ugL_IC
Data File : 20231215i-11.D Operator : pest20:ejl
Date Inj'd : 12/15/2023 6:38 pm Instrument : PEST 20
Sample : il10pest,42e,,pp 11398 L0.Quant Date : 12/18/2023 11:28 am

Compound #17: Dieldrin



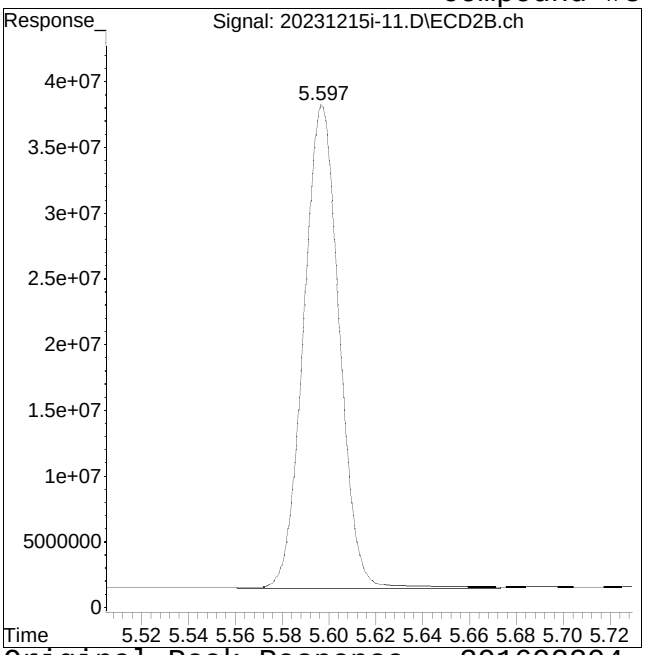


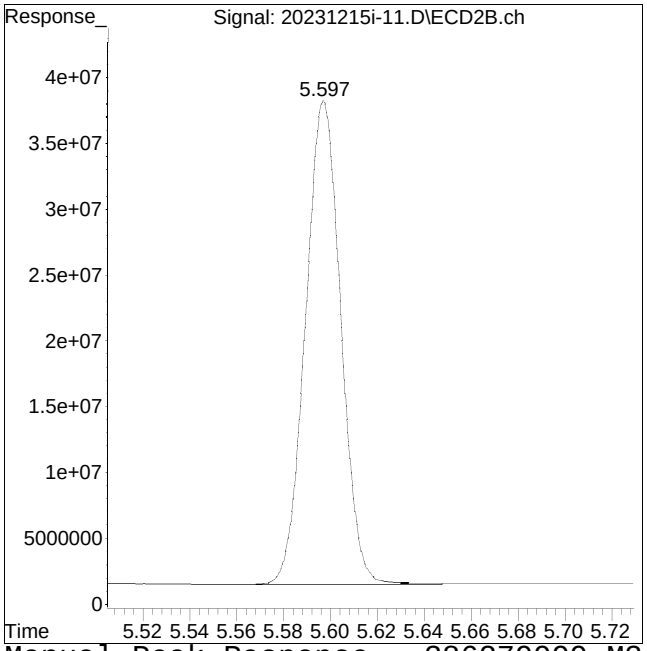
Original Peak Response = 401552685 Manual Peak Response = 398729887 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2023\231215QMethod : pest20_2023_12_15_ugL_IC
Data File : 20231215i-11.D Operator : pest20:ejl
Date Inj'd : 12/15/2023 6:38 pm Instrument : PEST 20
Sample : il10pest,42e,,pp 11398 L0.Quant Date : 12/18/2023 11:28 am

Compound #55: Dieldrin #2



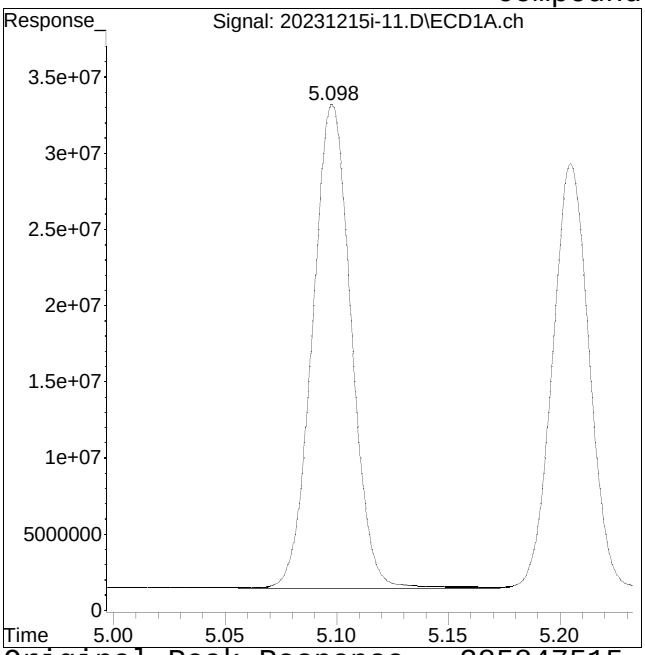


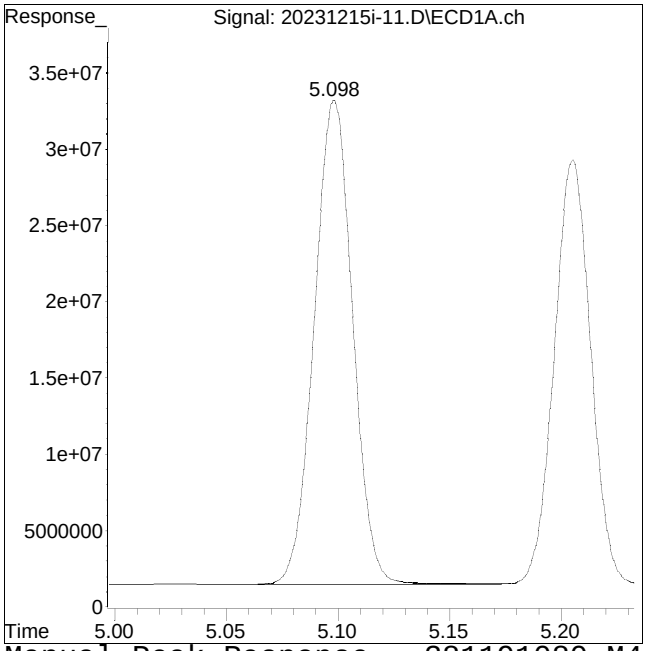
Original Peak Response = 391692304 Manual Peak Response = 386279999 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest20\2023\231215QMethod : pest20_2023_12_15_ugL_IC
Data File : 20231215i-11.D Operator : pest20:ejl
Date Inj'd : 12/15/2023 6:38 pm Instrument : PEST 20
Sample : il10pest,42e,,pp 11398 L0.Quant Date : 12/18/2023 11:28 am

Compound #18: Endrin



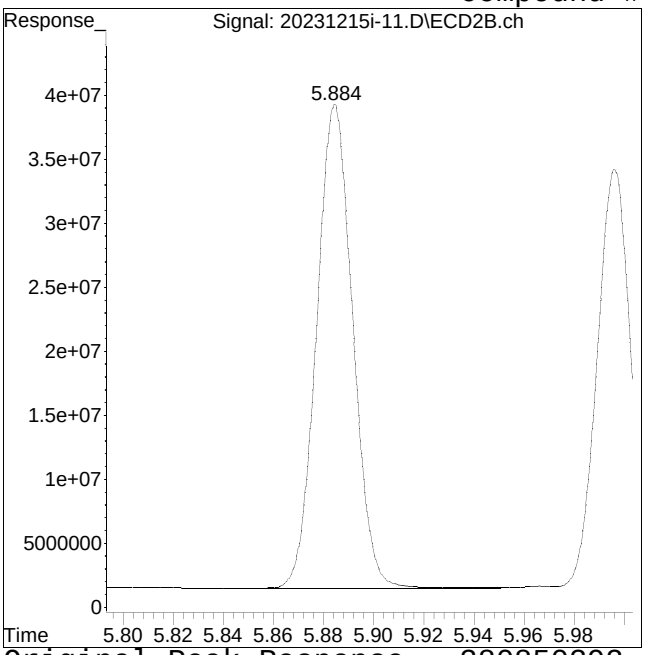


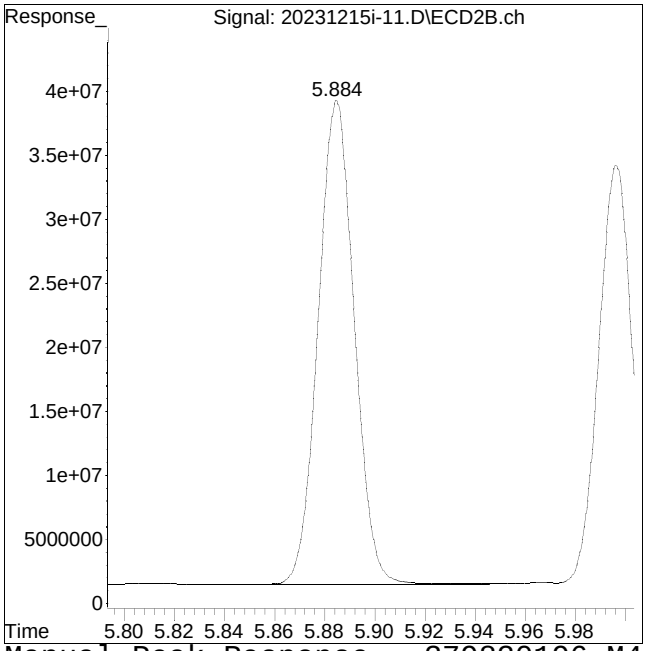
Original Peak Response = 385847515 Manual Peak Response = 381191080 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2023\231215QMethod : pest20_2023_12_15_ugL_IC
Data File : 20231215i-11.D Operator : pest20:ejl
Date Inj'd : 12/15/2023 6:38 pm Instrument : PEST 20
Sample : il10pest,42e,,pp 11398 L0.Quant Date : 12/18/2023 11:28 am

Compound #56: Endrin #2



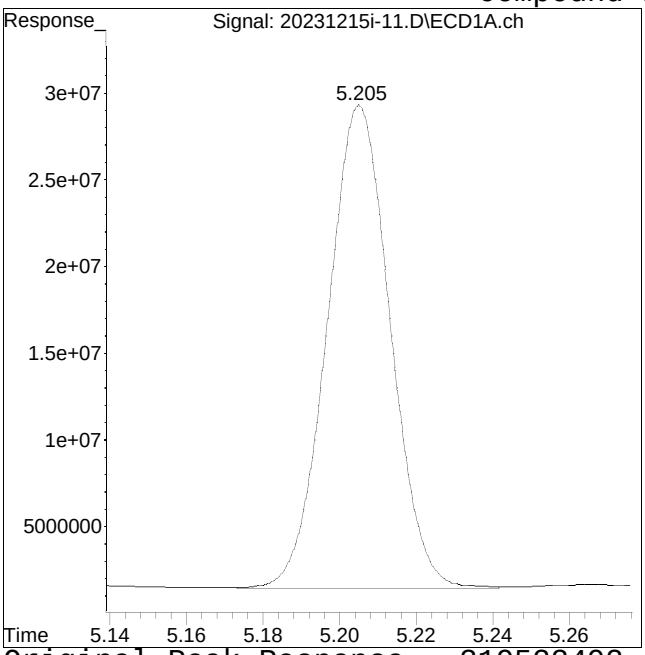


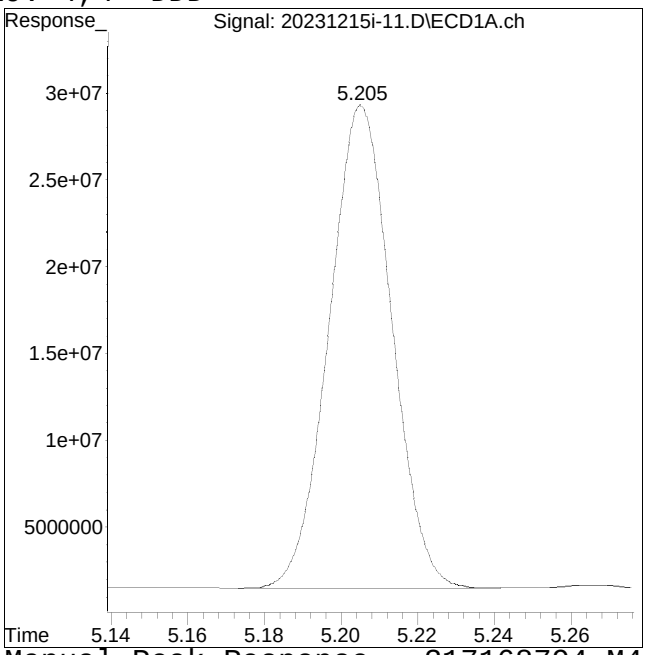
Original Peak Response = 380850392 Manual Peak Response = 379830196 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2023\231215QMethod : pest20_2023_12_15_ugL_IC
Data File : 20231215i-11.D Operator : pest20:ejl
Date Inj'd : 12/15/2023 6:38 pm Instrument : PEST 20
Sample : il10pest,42e,,pp 11398 L0.Quant Date : 12/18/2023 11:28 am

Compound #19: 4,4'-DDD



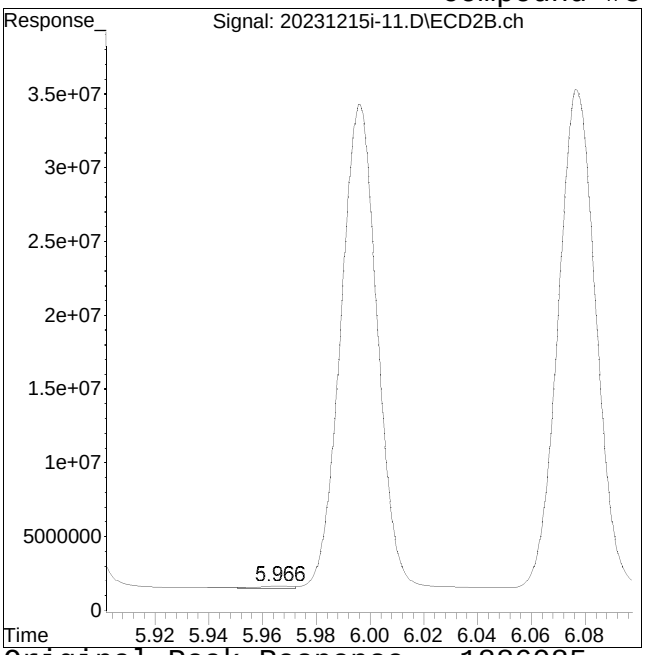


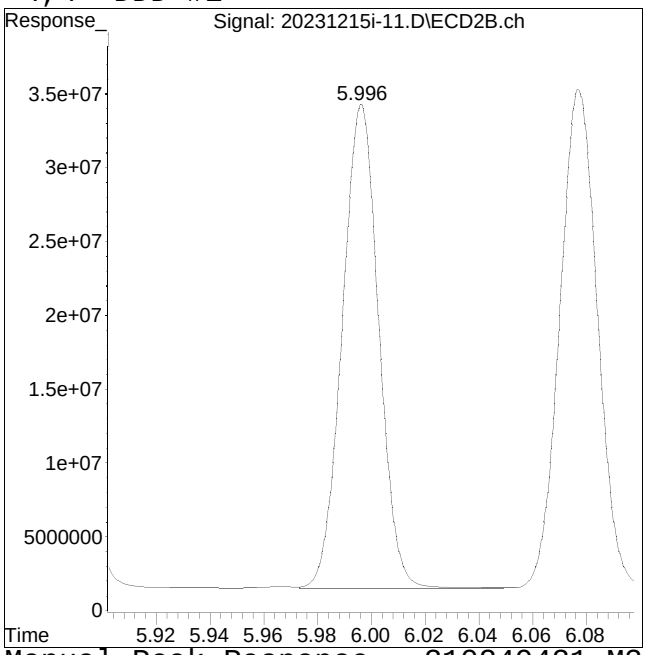
Original Peak Response = 319522492 Manual Peak Response = 317168794 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2023\231215QMethod : pest20_2023_12_15_ugL_IC
Data File : 20231215i-11.D Operator : pest20:ejl
Date Inj'd : 12/15/2023 6:38 pm Instrument : PEST 20
Sample : il10pest,42e,,pp 11398 L0.Quant Date : 12/18/2023 11:28 am

Compound #57: 4,4'-DDD #2



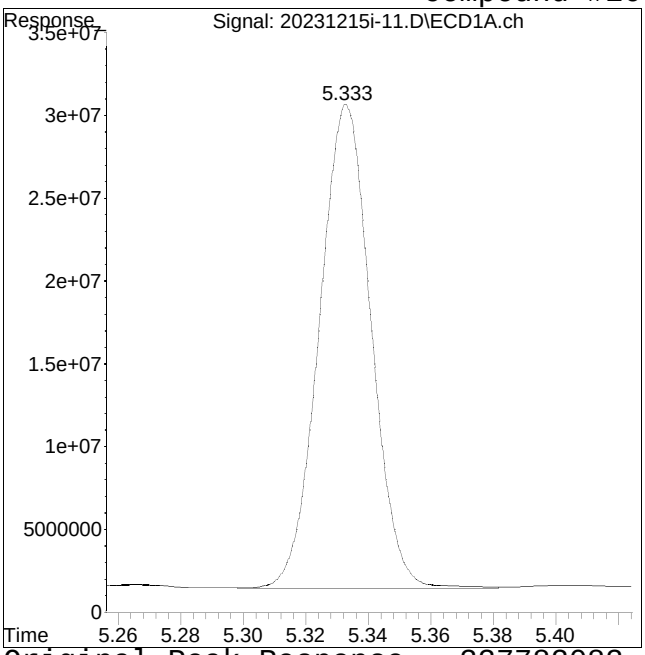


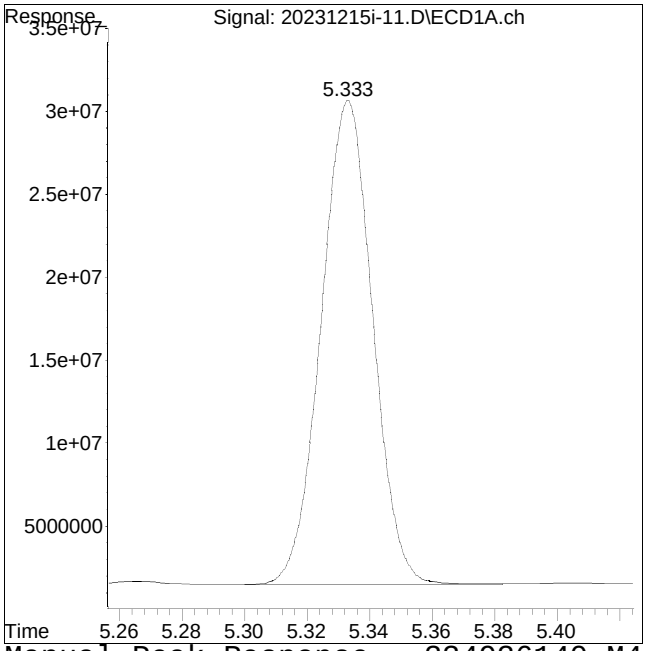
Original Peak Response = 1886085 Manual Peak Response = 310249421 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest20\2023\231215QMethod : pest20_2023_12_15_ugL_IC
Data File : 20231215i-11.D Operator : pest20:ejl
Date Inj'd : 12/15/2023 6:38 pm Instrument : PEST 20
Sample : il10pest,42e,,pp 11398 L0.Quant Date : 12/18/2023 11:28 am

Compound #20: Endosulfan II



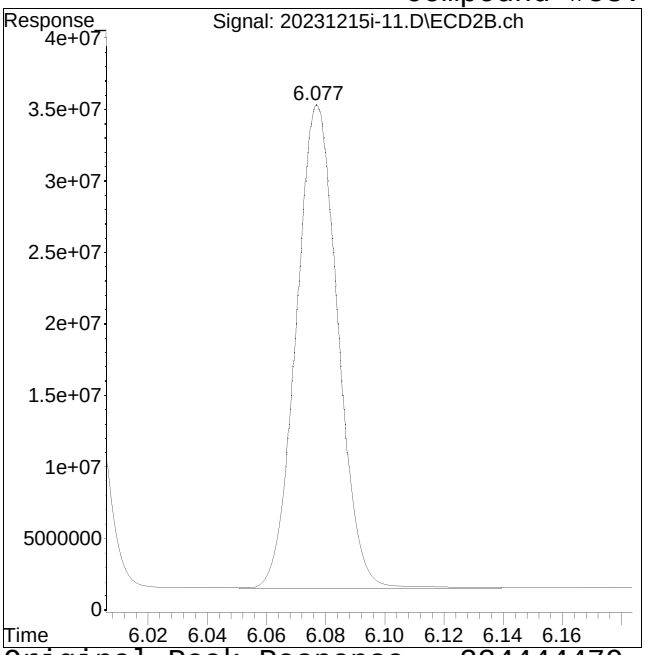


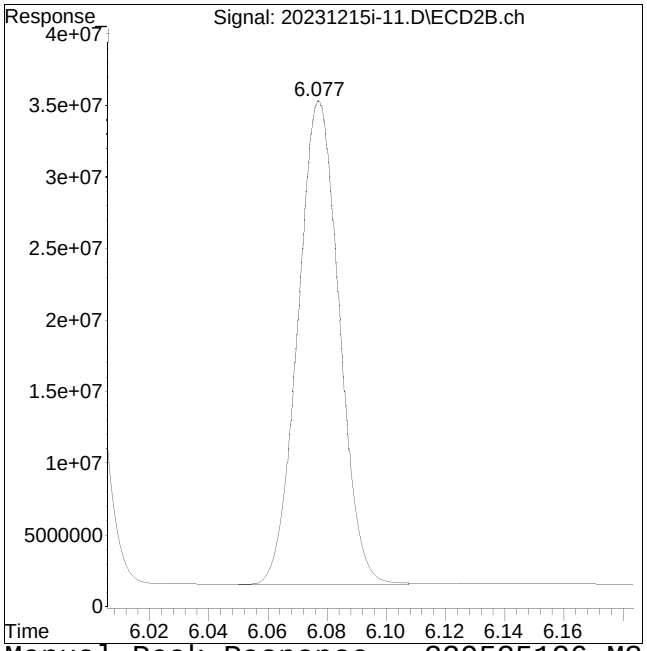
Original Peak Response = 337782083 Manual Peak Response = 334936140 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2023\231215QMethod : pest20_2023_12_15_ugL_IC
Data File : 20231215i-11.D Operator : pest20:ejl
Date Inj'd : 12/15/2023 6:38 pm Instrument : PEST 20
Sample : il10pest,42e,,pp 11398 L0.Quant Date : 12/18/2023 11:28 am

Compound #58: Endosulfan II #2



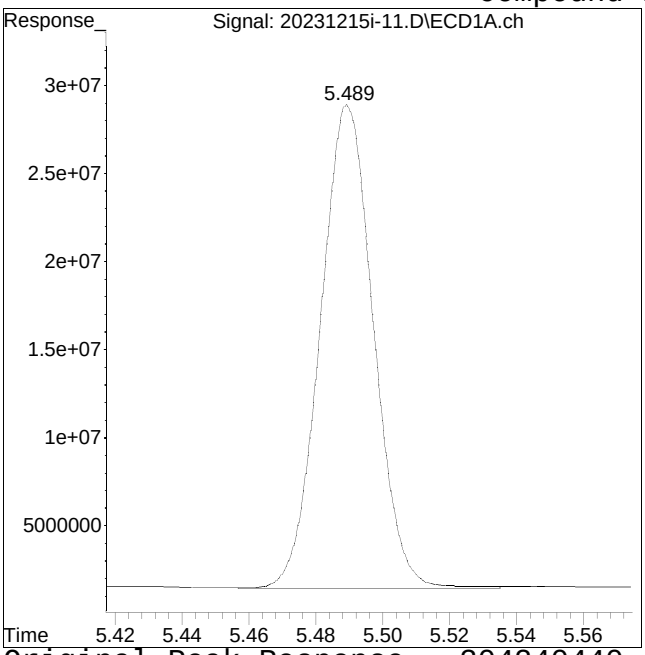


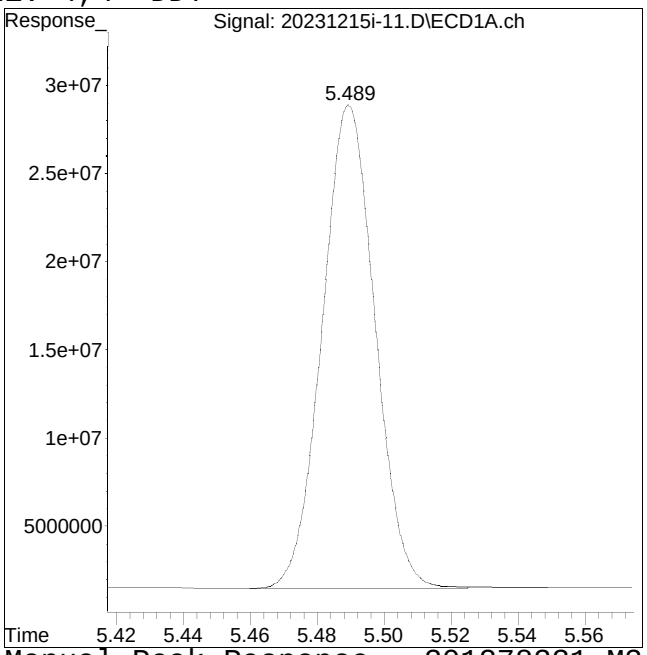
Original Peak Response = 334444479 Manual Peak Response = 329535126 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest20\2023\231215QMethod : pest20_2023_12_15_ugL_IC
Data File : 20231215i-11.D Operator : pest20:ejl
Date Inj'd : 12/15/2023 6:38 pm Instrument : PEST 20
Sample : il10pest,42e,,pp 11398 L0.Quant Date : 12/18/2023 11:28 am

Compound #21: 4,4'-DDT



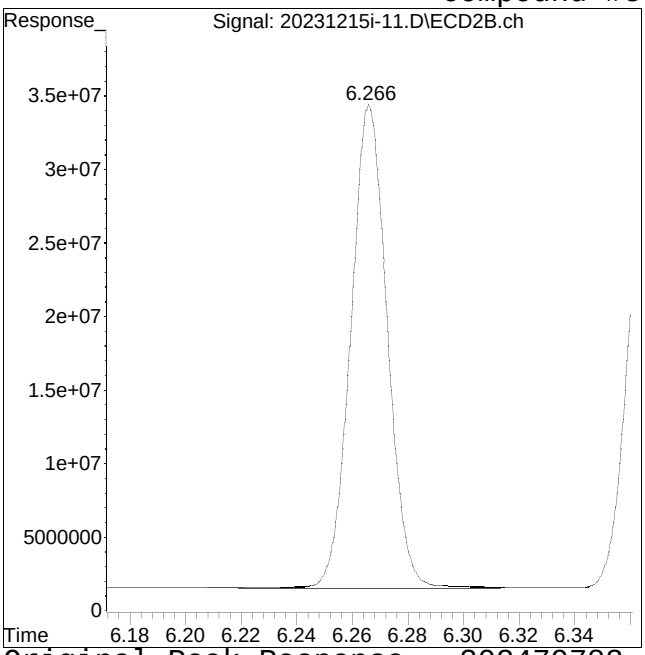


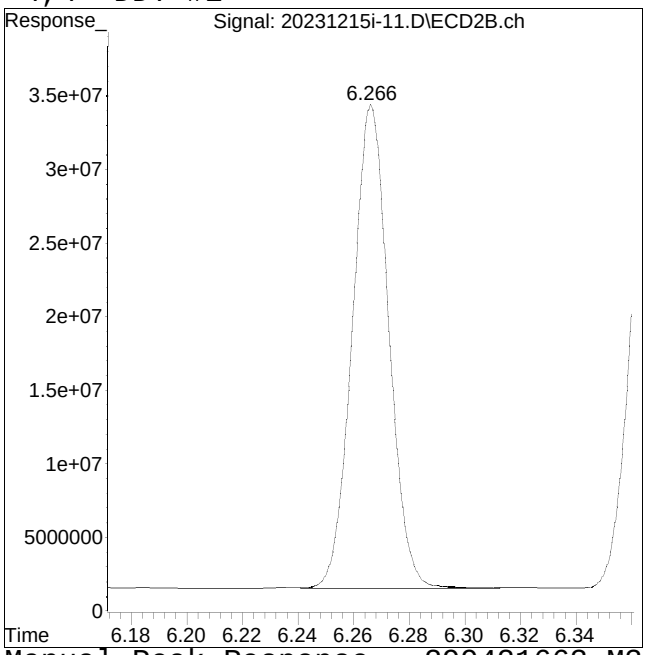
Original Peak Response = 304240440 Manual Peak Response = 301278331 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest20\2023\231215QMethod : pest20_2023_12_15_ugL_IC
Data File : 20231215i-11.D Operator : pest20:ejl
Date Inj'd : 12/15/2023 6:38 pm Instrument : PEST 20
Sample : il10pest,42e,,pp 11398 L0.Quant Date : 12/18/2023 11:28 am

Compound #59: 4,4'-DDT #2



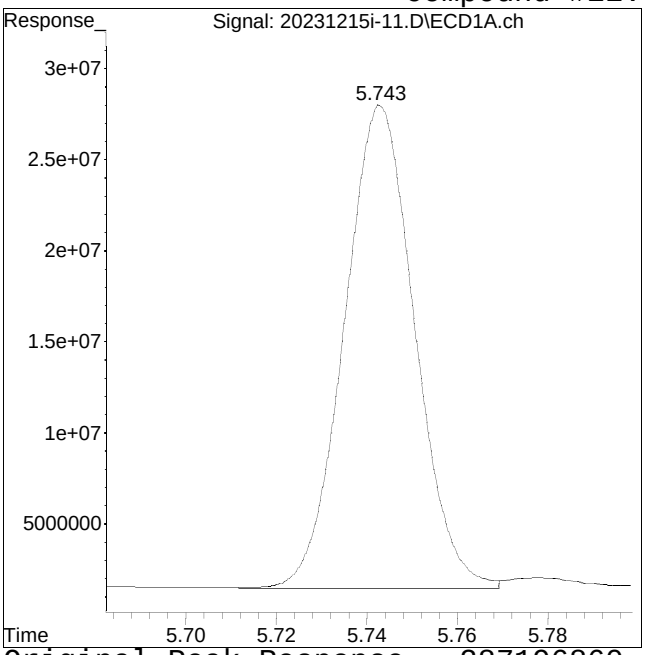


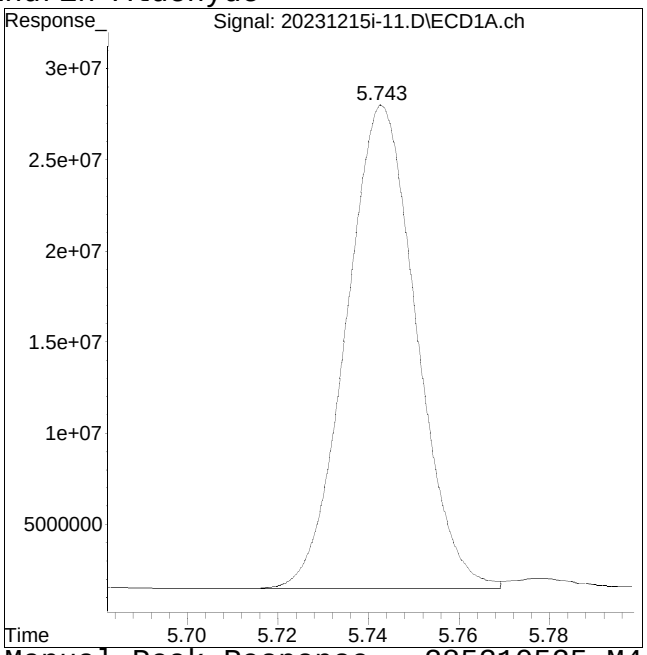
Original Peak Response = 302479783 Manual Peak Response = 299421663 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest20\2023\231215QMethod : pest20_2023_12_15_ugL_IC
Data File : 20231215i-11.D Operator : pest20:ejl
Date Inj'd : 12/15/2023 6:38 pm Instrument : PEST 20
Sample : il10pest,42e,,pp 11398 L0.Quant Date : 12/18/2023 11:28 am

Compound #22: Endrin Aldehyde



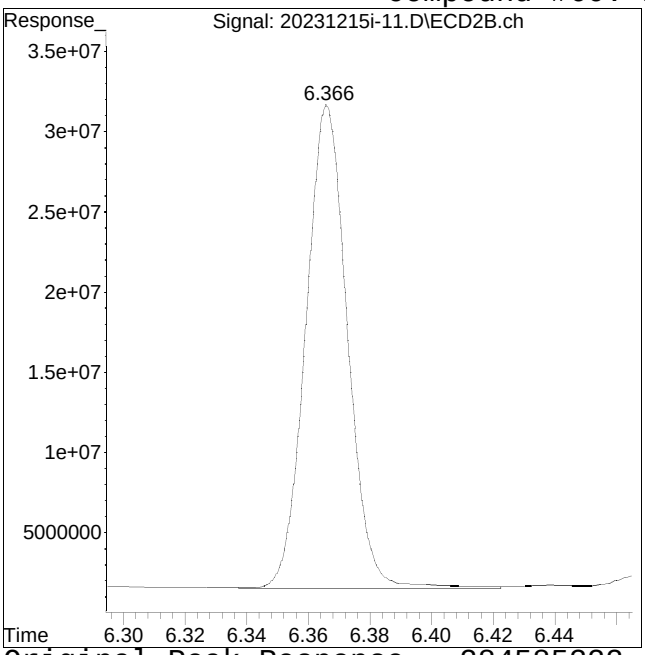


Original Peak Response = 287196860 Manual Peak Response = 285310525 M4
M4 = Poor automated baseline construction.

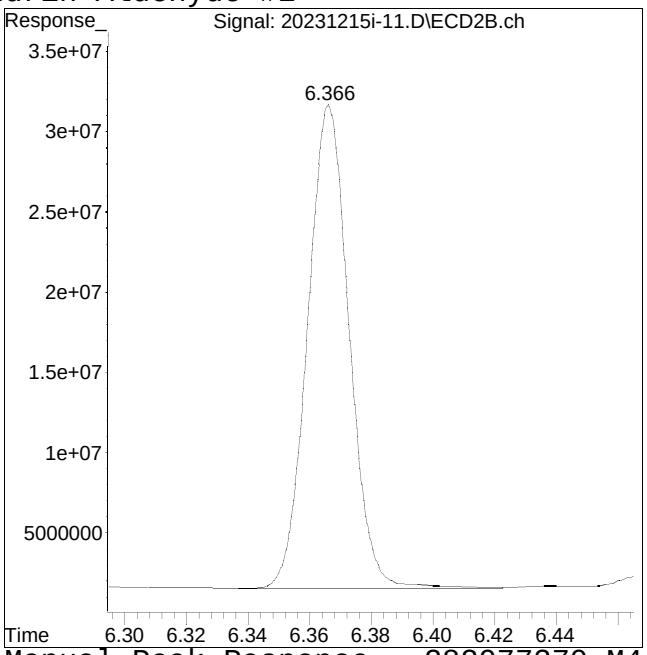
Manual Integration Report

Data Path : I:\PEST\Pest20\2023\231215QMethod : pest20_2023_12_15_ugL_IC
Data File : 20231215i-11.D Operator : pest20:ejl
Date Inj'd : 12/15/2023 6:38 pm Instrument : PEST 20
Sample : il10pest,42e,,pp 11398 L0.Quant Date : 12/18/2023 11:28 am

Compound #60: Endrin Aldehyde #2



Original Peak Response = 284585322

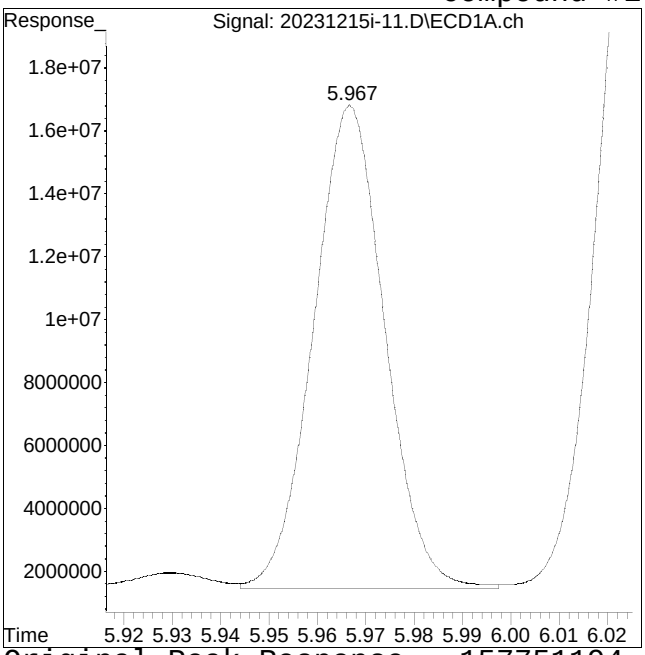


Manual Peak Response = 282977370 M4
M4 = Poor automated baseline construction.

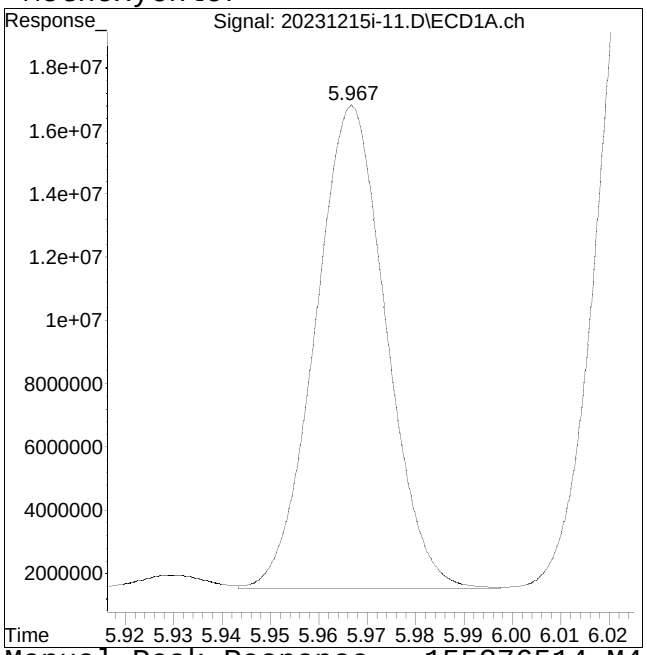
Manual Integration Report

Data Path : I:\PEST\Pest20\2023\231215QMethod : pest20_2023_12_15_ugL_IC
Data File : 20231215i-11.D Operator : pest20:ejl
Date Inj'd : 12/15/2023 6:38 pm Instrument : PEST 20
Sample : il10pest,42e,,pp 11398 L0.Quant Date : 12/18/2023 11:28 am

Compound #23: Methoxychlor



Original Peak Response = 157751194



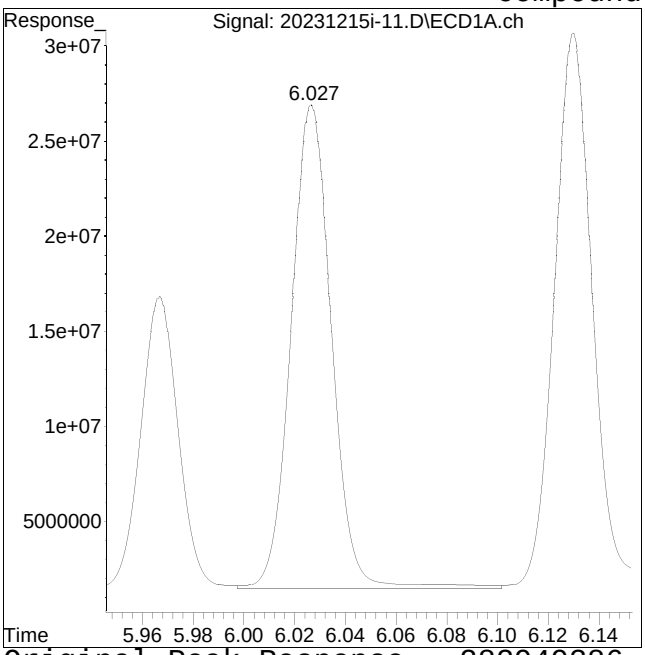
Manual Peak Response = 155276514 M4

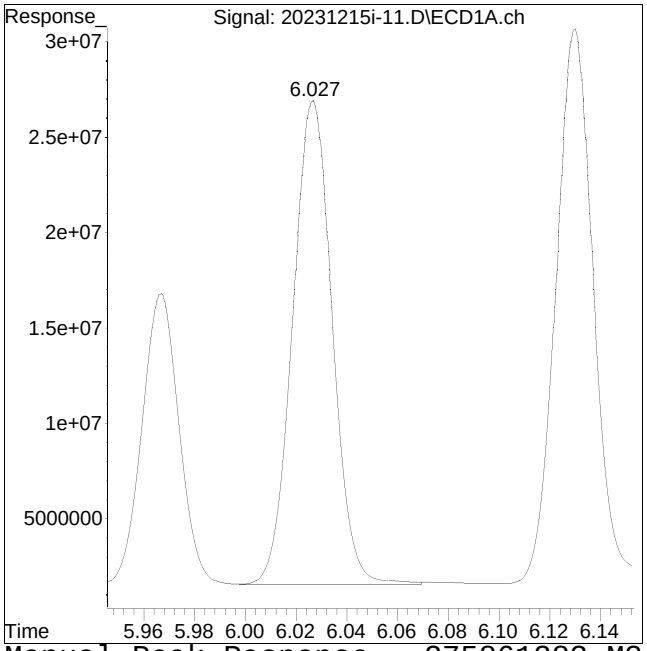
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2023\231215QMethod : pest20_2023_12_15_ugL_IC
Data File : 20231215i-11.D Operator : pest20:ejl
Date Inj'd : 12/15/2023 6:38 pm Instrument : PEST 20
Sample : il10pest,42e,,pp 11398 L0.Quant Date : 12/18/2023 11:28 am

Compound #24: Mirex



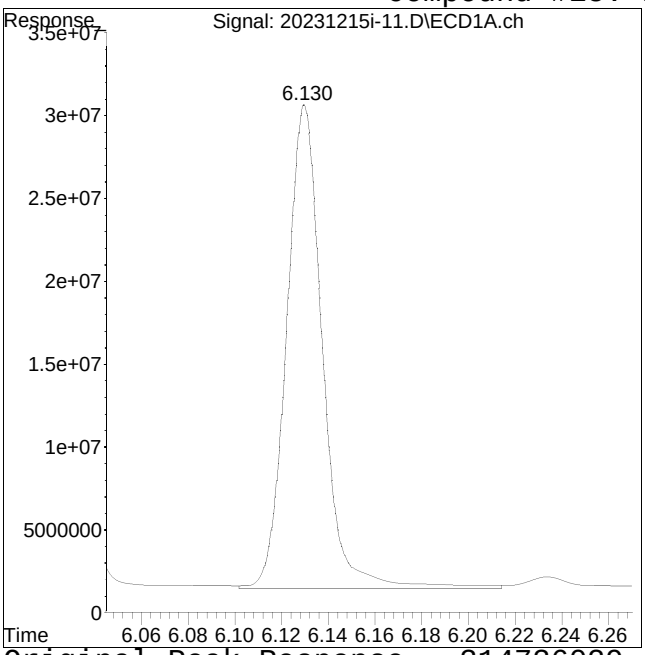


Original Peak Response = 282949386 Manual Peak Response = 275861283 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

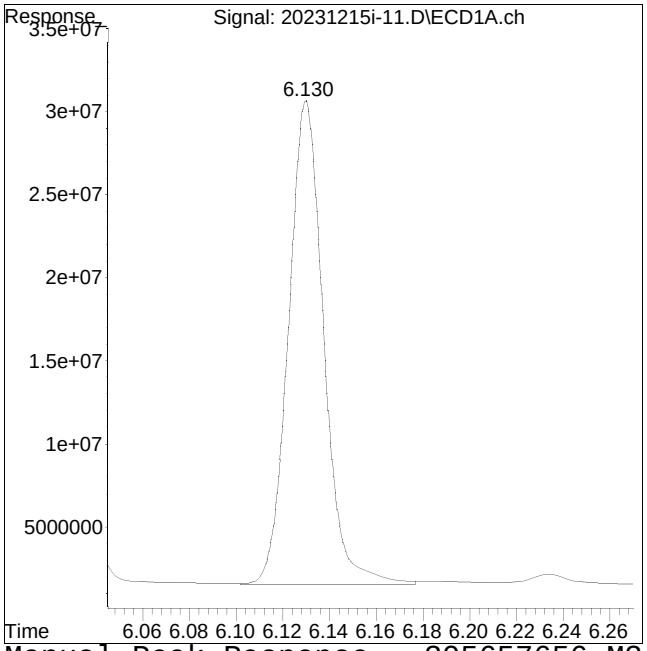
Manual Integration Report

Data Path : I:\PEST\Pest20\2023\231215QMethod : pest20_2023_12_15_ugL_IC
Data File : 20231215i-11.D Operator : pest20:ejl
Date Inj'd : 12/15/2023 6:38 pm Instrument : PEST 20
Sample : il10pest,42e,,pp 11398 L0.Quant Date : 12/18/2023 11:28 am

Compound #25: Endosulfan Sulfate



Original Peak Response = 314736029



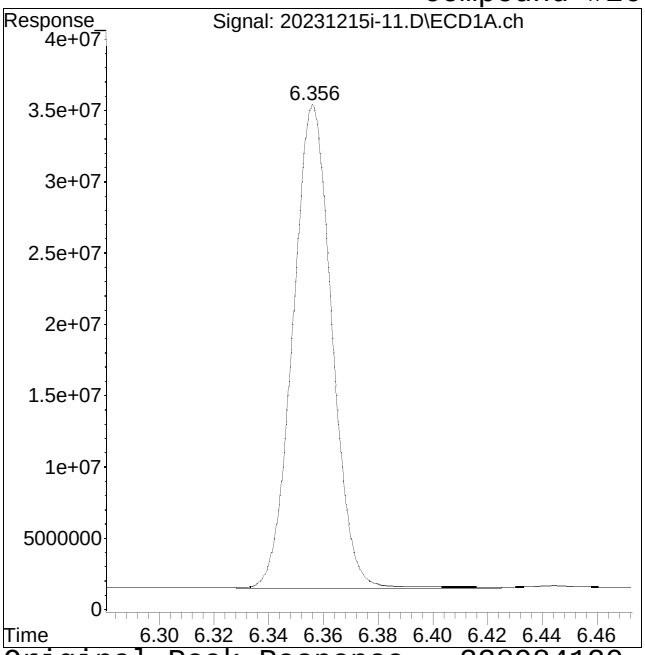
Manual Peak Response = 305657656 M3

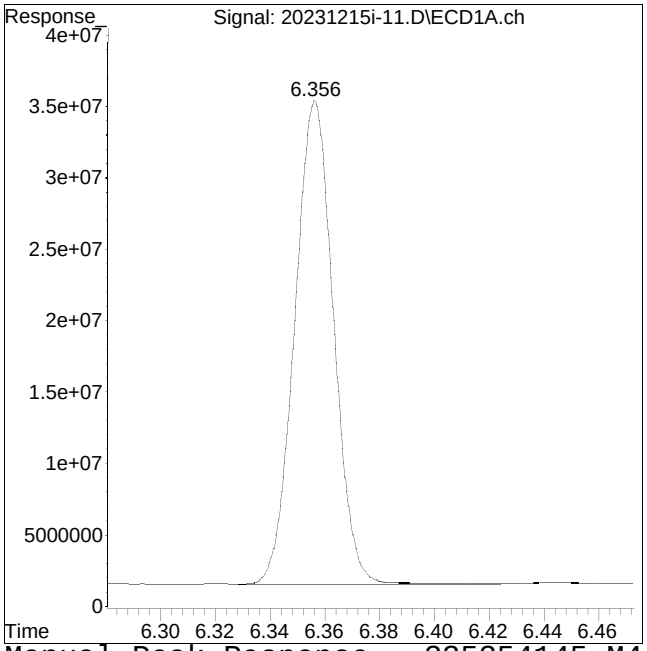
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest20\2023\231215QMethod : pest20_2023_12_15_ugL_IC
Data File : 20231215i-11.D Operator : pest20:ejl
Date Inj'd : 12/15/2023 6:38 pm Instrument : PEST 20
Sample : il10pest,42e,,pp 11398 L0.Quant Date : 12/18/2023 11:28 am

Compound #26: Endrin Ketone



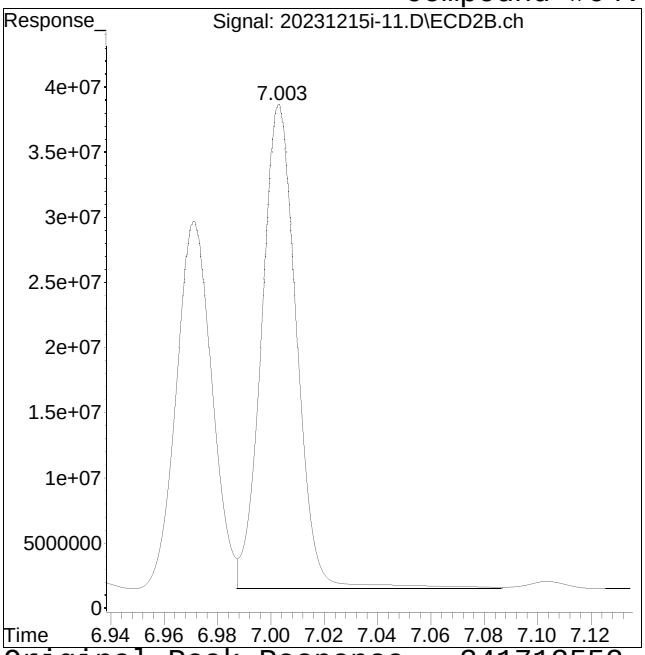


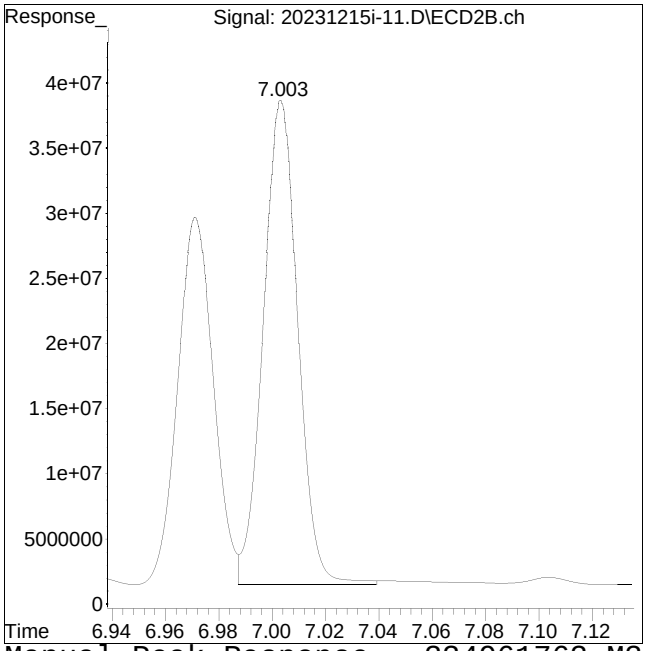
Original Peak Response = 338984120 Manual Peak Response = 335354145 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2023\231215QMethod : pest20_2023_12_15_ugL_IC
Data File : 20231215i-11.D Operator : pest20:ejl
Date Inj'd : 12/15/2023 6:38 pm Instrument : PEST 20
Sample : il10pest,42e,,pp 11398 L0.Quant Date : 12/18/2023 11:28 am

Compound #64: Endrin Ketone #2



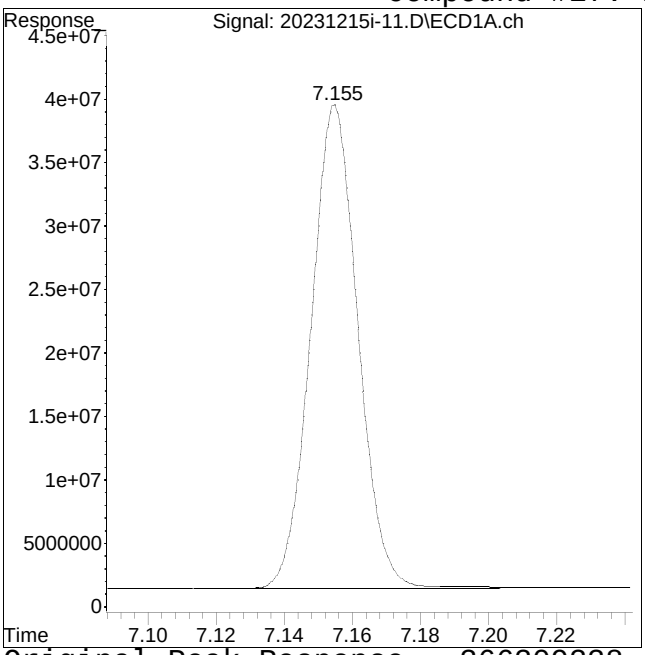


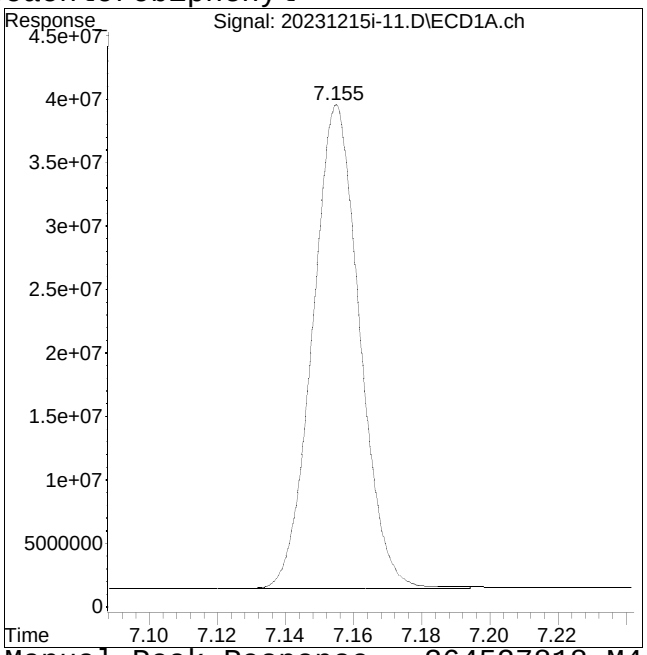
Original Peak Response = 341712552 Manual Peak Response = 334961763 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest20\2023\231215QMethod : pest20_2023_12_15_ugL_IC
Data File : 20231215i-11.D Operator : pest20:ejl
Date Inj'd : 12/15/2023 6:38 pm Instrument : PEST 20
Sample : il10pest,42e,,pp 11398 L0.Quant Date : 12/18/2023 11:28 am

Compound #27: Decachlorobiphenyl





Original Peak Response = 366309338 Manual Peak Response = 364527818 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest20\2023\231215ical\
Data File : 20231215i-12.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Dec 2023 06:50 pm
Operator : pest20:ejl
Sample : il11pest,42e,,pp 11397 L0.4
Misc : wg1865714,ical (Sig #1); ical (Sig #2)
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 18 11:41:18 2023
Quant Method : I:\PEST\Pest20\2023\231215ical\pest20_2023_12_15_ugL_ICAL.m
Quant Title : pest
QLast Update : Mon Dec 18 11:34:01 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	1.828	1.992	48774730	46639803	25.000	25.000
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	2.285	2.602	745.6E6	769.2E6	386.340	380.307
	Spiked Amount 50.000	Range 30 - 150		Recovery =		772.68%#	760.61%#
27) s	Decachlorobi	7.153	7.871	718.5E6	622.7E6	364.095M4	355.299
	Spiked Amount 50.000	Range 30 - 150		Recovery =		728.19%#	710.60%#
	Target Compounds						
3)	Hexachlorobe	2.544	2.980	813.4E6	784.8E6	383.956	376.116
4)	alpha-BHC	2.663	3.093	1066.2E6	1053.5E6	404.780M4	399.661M3
5)	gamma-BHC (l	2.898	3.418	940.1E6	930.2E6	401.759M4	395.908
6)	beta-BHC	2.966	3.494	408.3E6	421.2E6	382.640M4	379.393M3
7)	delta-BHC	3.110	3.790	972.9E6	970.7E6	405.870M4	401.639M4
8)	Heptachlor	3.289	3.859	809.6E6	766.2E6	389.750M3	387.646M4
9)	Aldrin	3.557	4.208	908.2E6	861.2E6	396.519	390.938M4
10)	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11)	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12)	Heptachlor E	4.150	4.870	784.6E6	792.4E6	387.824M3	386.630M4
13)	gamma-Chlord	4.283	5.086	753.8E6	712.9E6	394.917M4	391.278M3
14)	alpha-Chlord	4.427	5.245	844.9E6	794.5E6	390.032M4	386.699M4
15)	4,4'-DDE	4.533	5.428	870.1E6	815.0E6	392.826M4	385.365M4

Data Path : I:\PEST\Pest20\2023\231215ical\
Data File : 20231215i-12.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Dec 2023 06:50 pm
Operator : pest20:ejl
Sample : il11pest,42e,,pp 11397 L0.4
Misc : wg1865714,ical (Sig #1); ical (Sig #2)
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 18 11:41:18 2023
Quant Method : I:\PEST\Pest20\2023\231215ical\pest20_2023_12_15_ugL_ICAL.m
Quant Title : pest
QLast Update : Mon Dec 18 11:34:01 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
16)	Endosulfan I	4.571	5.304	762.5E6	746.9E6	389.039M4	386.449M4
17)	Dieldrin	4.846	5.581	811.9E6	782.0E6	394.241M4	391.912M4
18)	Endrin	5.097	5.869	772.3E6	765.1E6	388.453M4	387.822M4
19)	4,4'-DDD	5.205	5.981	648.4E6	626.3E6	393.952M4	389.117M4
20)	Endosulfan I	5.332	6.062	676.4E6	665.4E6	384.426M4	384.289M3
21)	4,4'-DDT	5.489	6.251	618.9E6	609.5E6	391.776M4	385.804M3
22)	Endrin Aldeh	5.742	6.350	578.7E6	572.9E6	383.482M4	383.790M4
23)	Methoxychlor	5.966	6.802	306.3E6	309.5E6	356.781M4	358.995M4
24)	Mirex	6.026	6.955	550.5E6	525.1E6	366.191M3	368.176M4
25)	Endosulfan S	6.129	6.575	612.1E6	605.2E6	377.180M4	380.568M4
26)	Endrin Keton	6.355	6.987	668.9E6	670.0E6	374.125M4	376.000M3
29) l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest20\2023\231215ical\
Data File : 20231215i-12.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Dec 2023 06:50 pm
Operator : pest20:ejl
Sample : il11pest,42e,,pp 11397 L0.4
Misc : wg1865714,ical (Sig #1); ical (Sig #2)
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 18 11:41:18 2023
Quant Method : I:\PEST\Pest20\2023\231215ical\pest20_2023_12_15_ugL_ICAL.m
Quant Title : pest
QLast Update : Mon Dec 18 11:34:01 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Sum toxaphene-1			0	0	N.D.	N.D.
Average toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum toxaphene-1			0	0	N.D.	N.D.
Average toxaphene-1					0.000	0.000

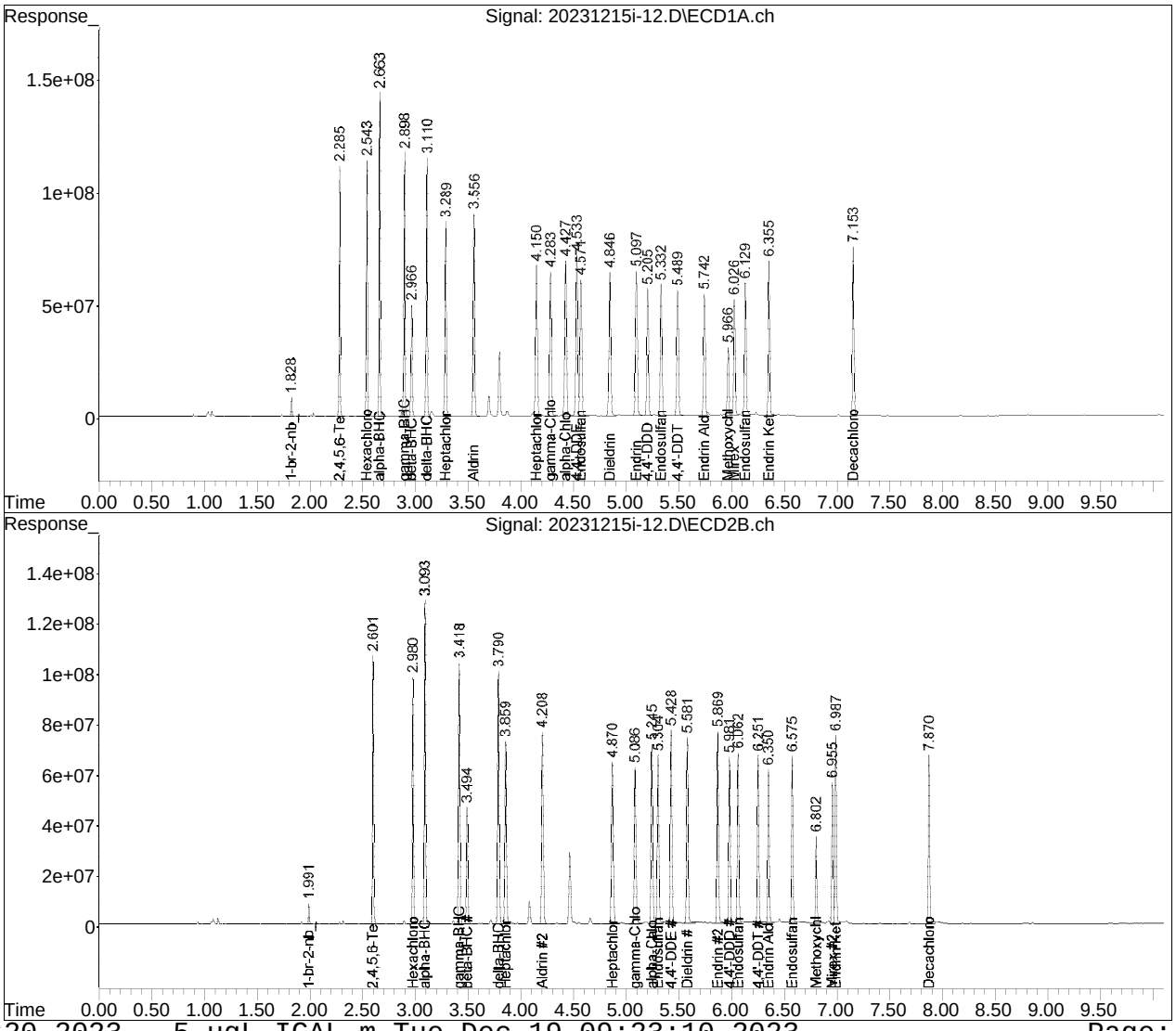
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest20\2023\231215ical\
Data File : 20231215i-12.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Dec 2023 06:50 pm
Operator : pest20:ejl
Sample : il11pest,42e,,pp 11397 L0.4
Misc : wg1865714,ical (Sig #1); ical (Sig #2)
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 18 11:41:18 2023
Quant Method : I:\PEST\Pest20\2023\231215ical\pest20_2023_12_15_ugL_ICAL.m
Quant Title : pest
QLast Update : Mon Dec 18 11:34:01 2023
Response via : Initial Calibration
Integrator: ChemStation

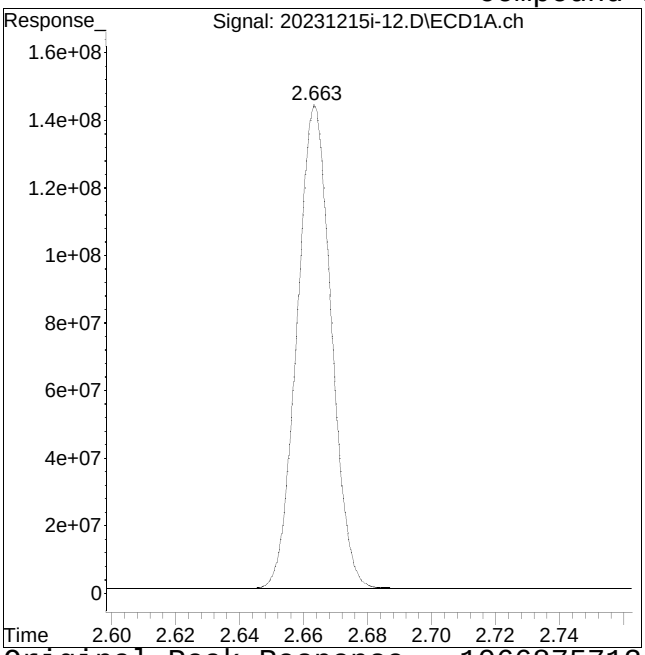
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

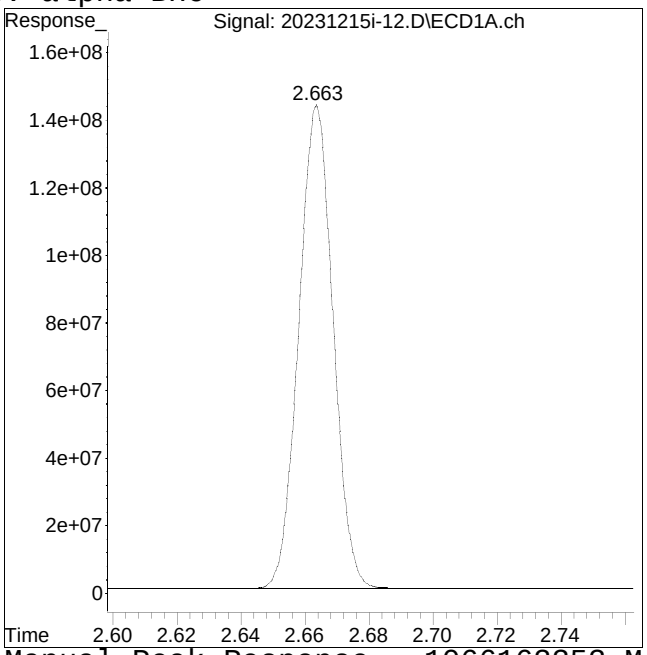


Manual Integration Report

Data Path : I:\PEST\Pest20\2023\231215QMethod : pest20_2023_12_15_ugL_IC
Data File : 20231215i-12.D Operator : pest20:ejl
Date Inj'd : 12/15/2023 6:50 pm Instrument : PEST 20
Sample : il11pest,42e,,pp 11397 L0.Quant Date : 12/18/2023 11:34 am

Compound #4: alpha-BHC



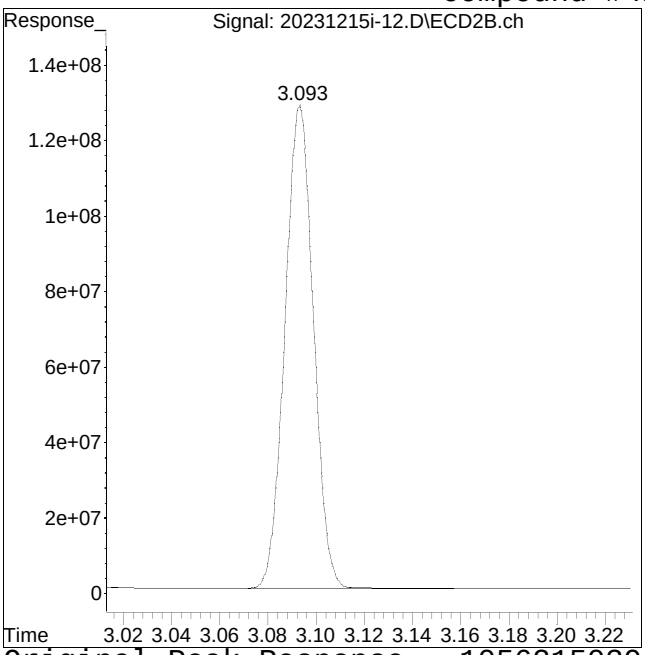


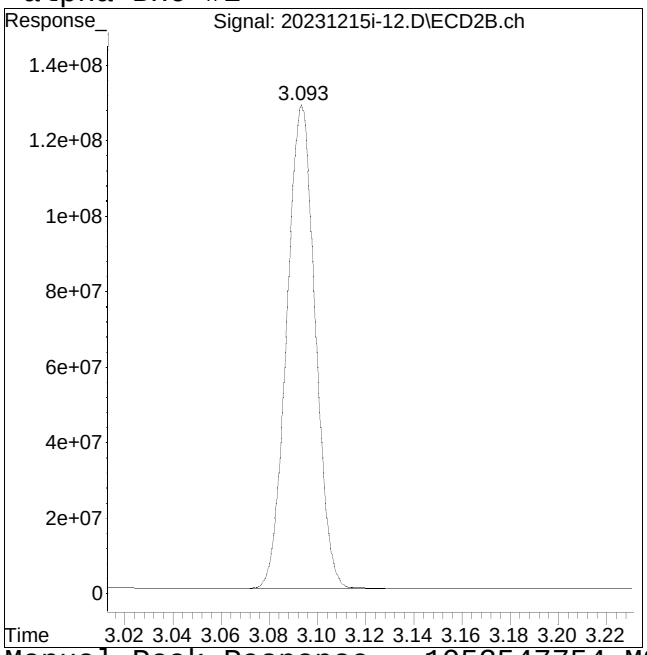
Original Peak Response = 1066875713 Manual Peak Response = 1066163353 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2023\231215QMethod : pest20_2023_12_15_ugL_IC
Data File : 20231215i-12.D Operator : pest20:ejl
Date Inj'd : 12/15/2023 6:50 pm Instrument : PEST 20
Sample : il11pest,42e,,pp 11397 L0.Quant Date : 12/18/2023 11:34 am

Compound #42: alpha-BHC #2



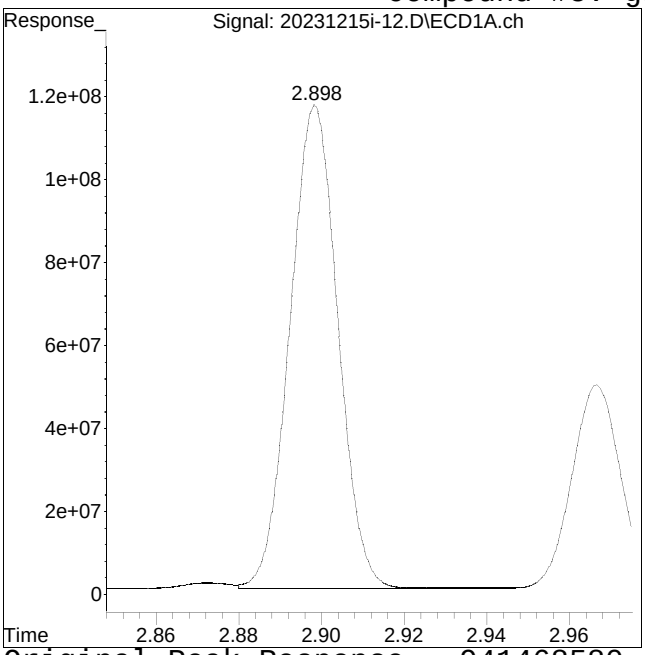


Original Peak Response = 1056215039 Manual Peak Response = 1053547754 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

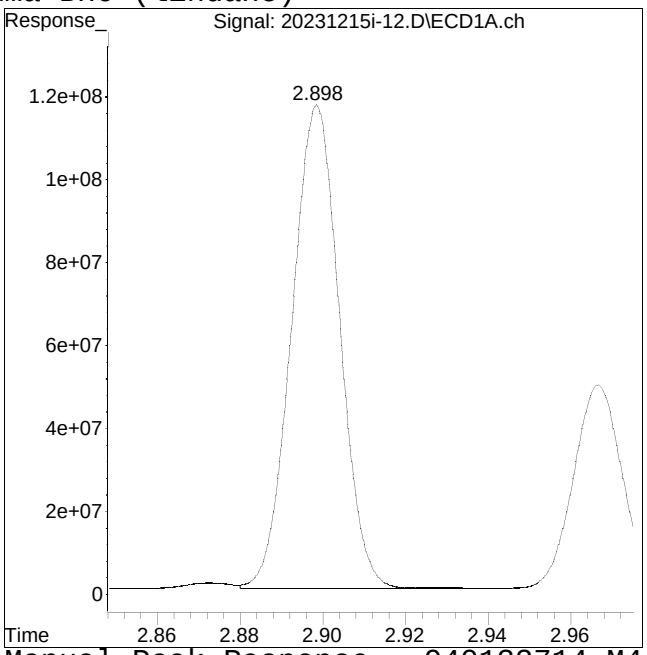
Manual Integration Report

Data Path : I:\PEST\Pest20\2023\231215QMethod : pest20_2023_12_15_ugL_IC
Data File : 20231215i-12.D Operator : pest20:ejl
Date Inj'd : 12/15/2023 6:50 pm Instrument : PEST 20
Sample : il11pest,42e,,pp 11397 L0.Quant Date : 12/18/2023 11:34 am

Compound #5: gamma-BHC (lindane)



Original Peak Response = 941468580



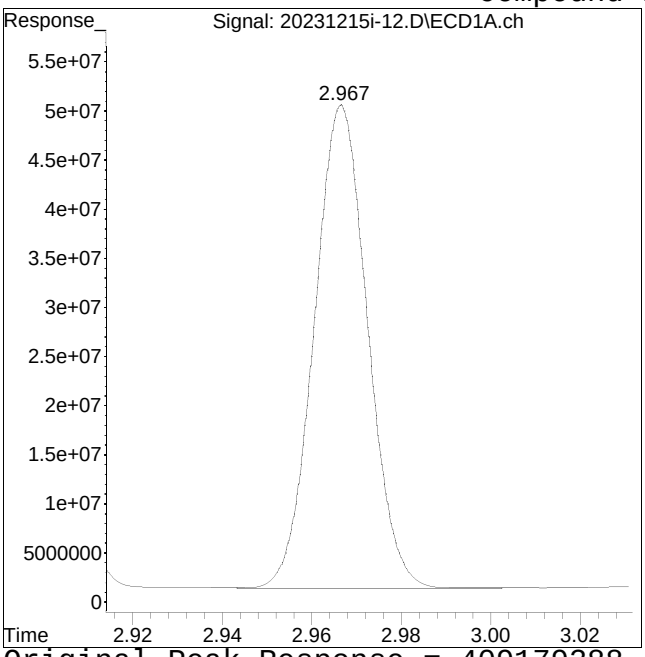
Manual Peak Response = 940133714 M4

M4 = Poor automated baseline construction.

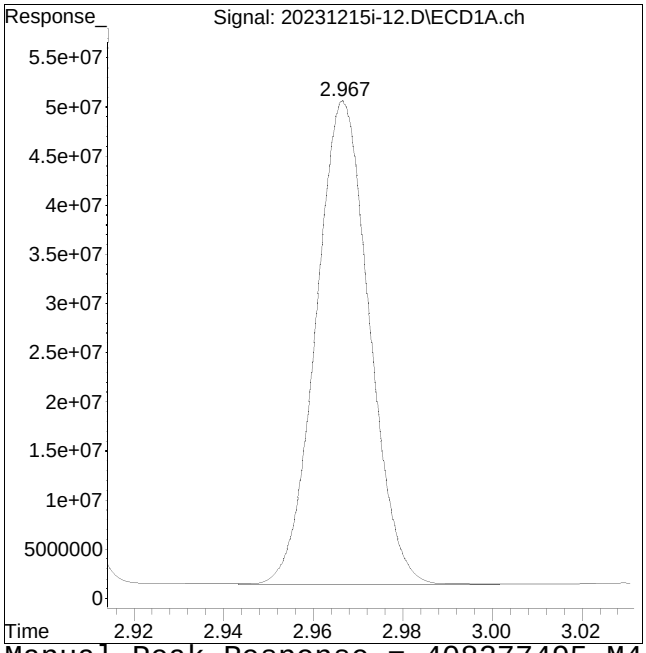
Manual Integration Report

Data Path : I:\PEST\Pest20\2023\231215QMethod : pest20_2023_12_15_ugL_IC
Data File : 20231215i-12.D Operator : pest20:ejl
Date Inj'd : 12/15/2023 6:50 pm Instrument : PEST 20
Sample : il11pest,42e,,pp 11397 L0.Quant Date : 12/18/2023 11:34 am

Compound #6: beta-BHC



Original Peak Response = 409179388



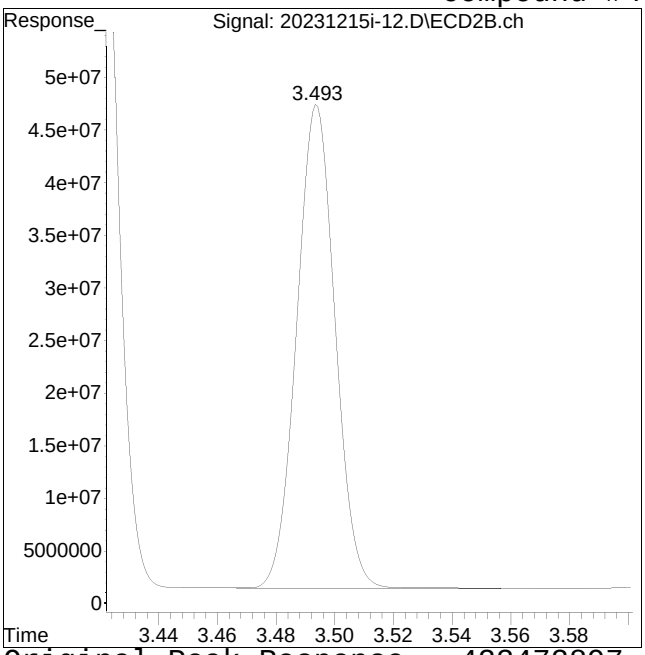
Manual Peak Response = 408277495 M4

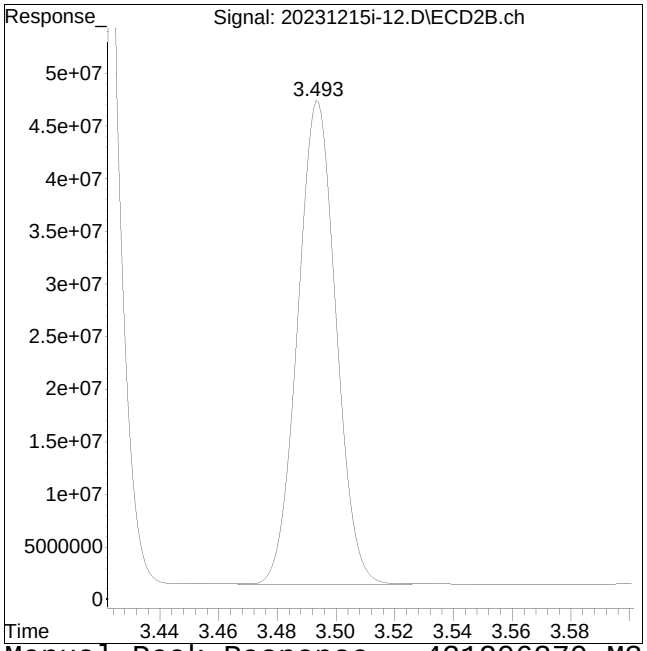
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2023\231215QMethod : pest20_2023_12_15_ugL_IC
Data File : 20231215i-12.D Operator : pest20:ejl
Date Inj'd : 12/15/2023 6:50 pm Instrument : PEST 20
Sample : il11pest,42e,,pp 11397 L0.Quant Date : 12/18/2023 11:34 am

Compound #44: beta-BHC #2



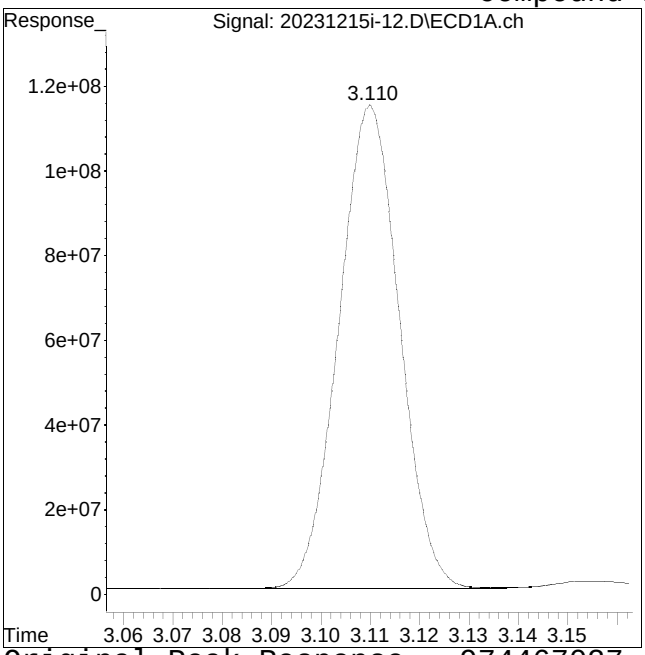


Original Peak Response = 423472897 Manual Peak Response = 421206270 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

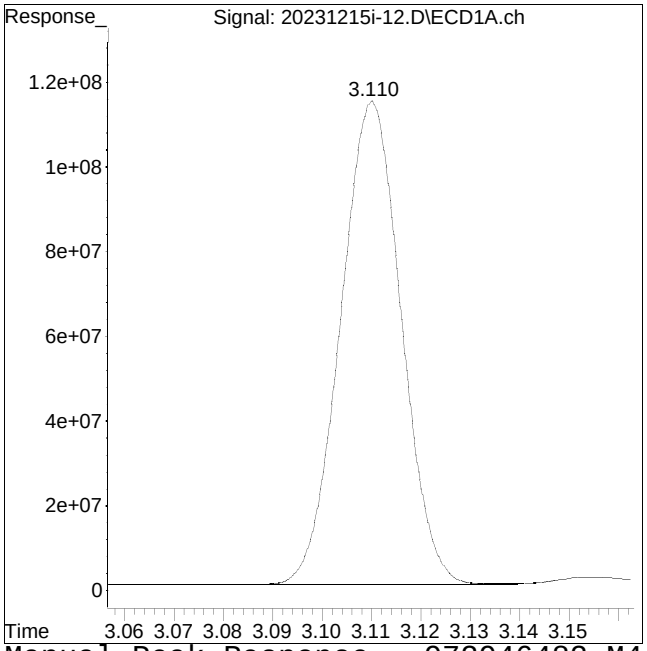
Manual Integration Report

Data Path : I:\PEST\Pest20\2023\231215QMethod : pest20_2023_12_15_ugL_IC
Data File : 20231215i-12.D Operator : pest20:ejl
Date Inj'd : 12/15/2023 6:50 pm Instrument : PEST 20
Sample : il11pest,42e,,pp 11397 L0.Quant Date : 12/18/2023 11:34 am

Compound #7: delta-BHC



Original Peak Response = 974467027



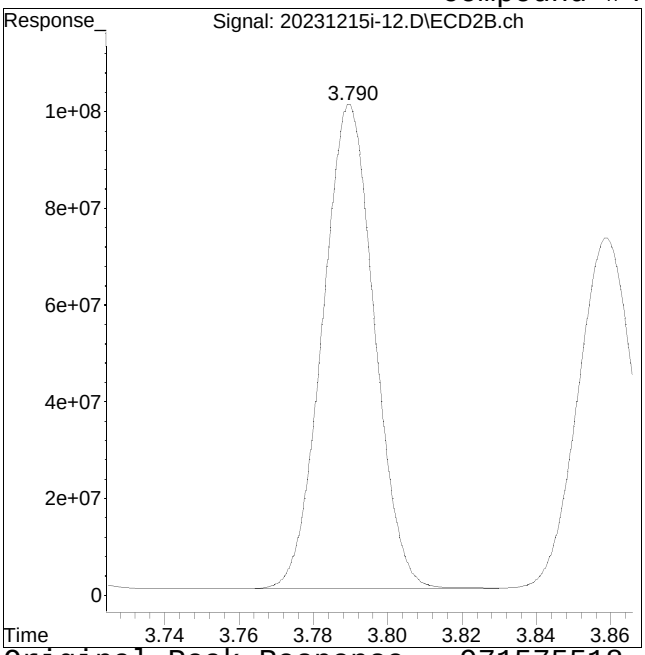
Manual Peak Response = 972946482 M4

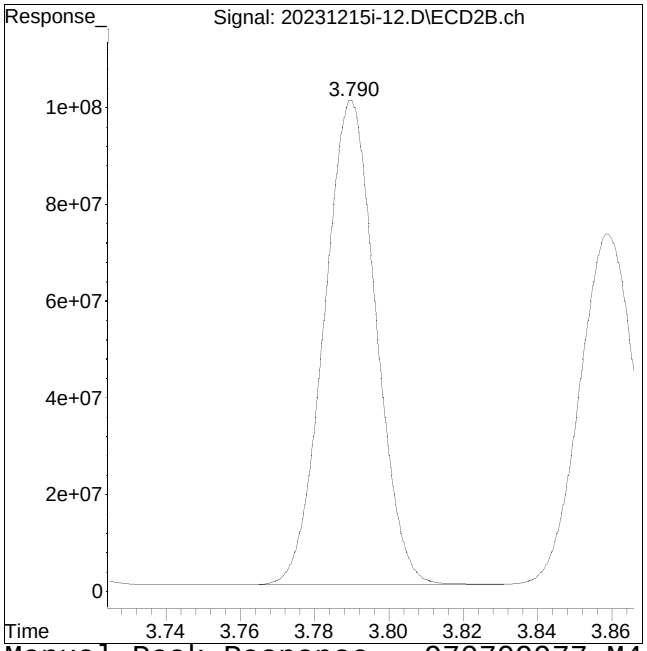
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2023\231215QMethod : pest20_2023_12_15_ugL_IC
Data File : 20231215i-12.D Operator : pest20:ejl
Date Inj'd : 12/15/2023 6:50 pm Instrument : PEST 20
Sample : il11pest,42e,,pp 11397 L0.Quant Date : 12/18/2023 11:34 am

Compound #45: delta-BHC #2



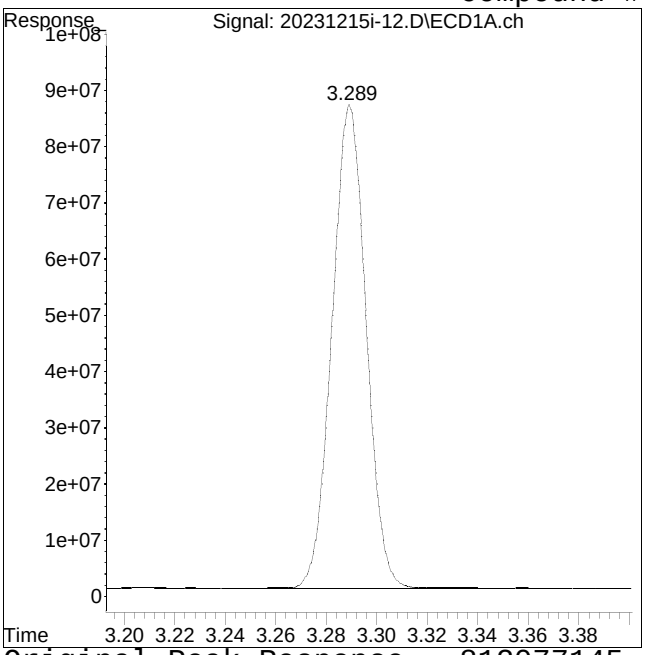


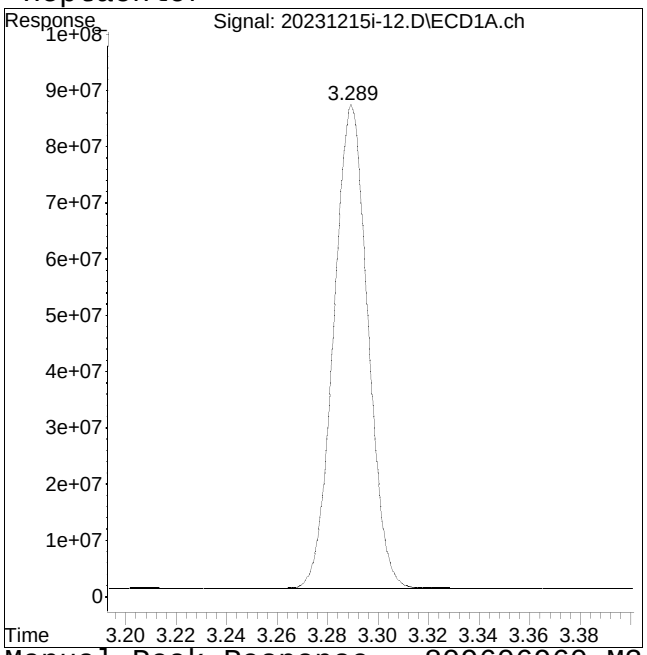
Original Peak Response = 971575518 Manual Peak Response = 970709977 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2023\231215QMethod : pest20_2023_12_15_ugL_IC
Data File : 20231215i-12.D Operator : pest20:ejl
Date Inj'd : 12/15/2023 6:50 pm Instrument : PEST 20
Sample : il11pest,42e,,pp 11397 L0.Quant Date : 12/18/2023 11:34 am

Compound #8: Heptachlor



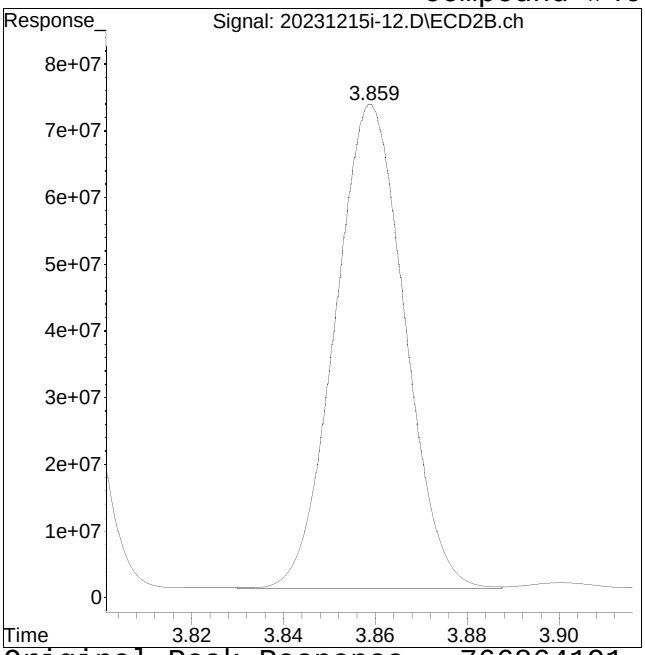


Original Peak Response = 812077145 Manual Peak Response = 809606960 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

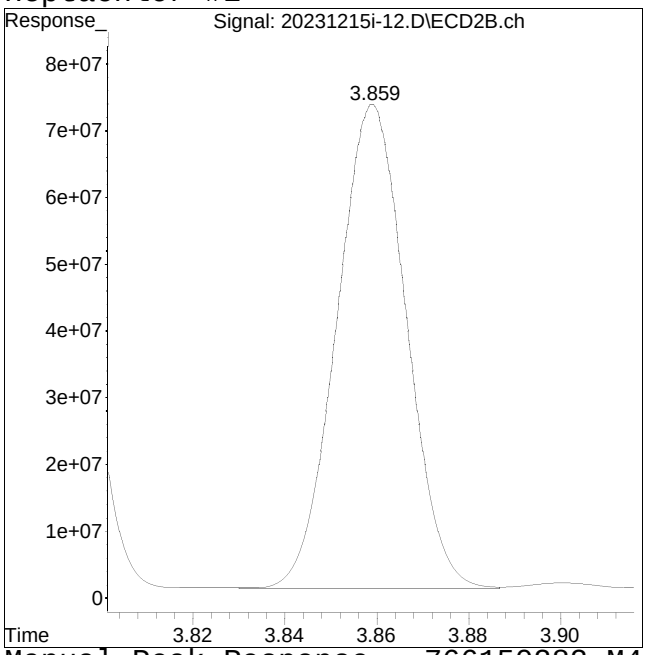
Manual Integration Report

Data Path : I:\PEST\Pest20\2023\231215QMethod : pest20_2023_12_15_ugL_IC
Data File : 20231215i-12.D Operator : pest20:ejl
Date Inj'd : 12/15/2023 6:50 pm Instrument : PEST 20
Sample : il11pest,42e,,pp 11397 L0.Quant Date : 12/18/2023 11:34 am

Compound #46: Heptachlor #2



Original Peak Response = 766864191



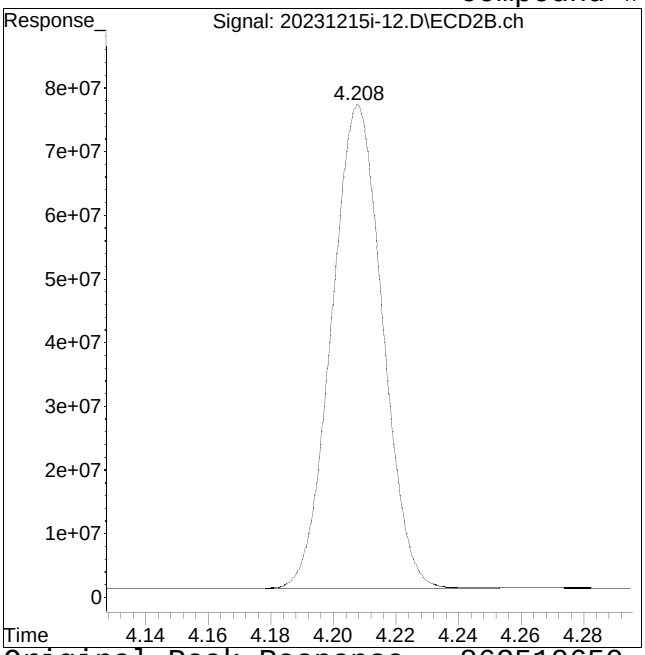
Manual Peak Response = 766150282 M4

M4 = Poor automated baseline construction.

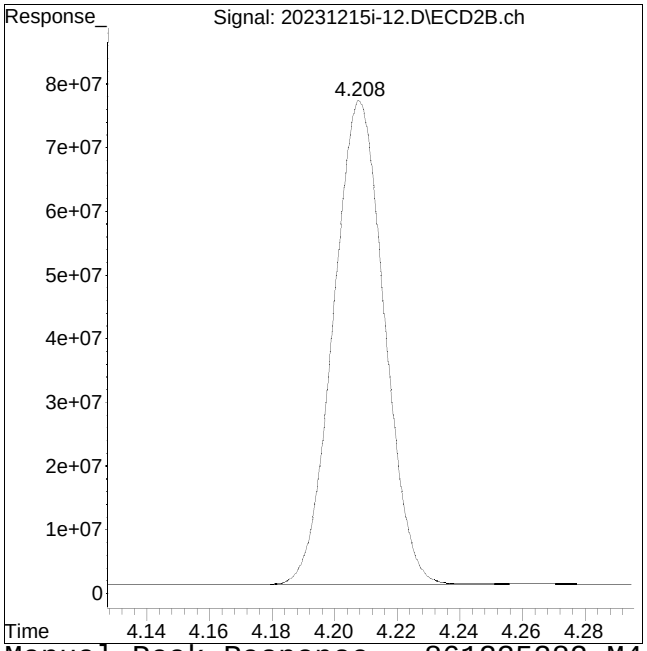
Manual Integration Report

Data Path : I:\PEST\Pest20\2023\231215QMethod : pest20_2023_12_15_ugL_IC
Data File : 20231215i-12.D Operator : pest20:ejl
Date Inj'd : 12/15/2023 6:50 pm Instrument : PEST 20
Sample : il11pest,42e,,pp 11397 L0.Quant Date : 12/18/2023 11:34 am

Compound #47: Aldrin #2



Original Peak Response = 862510650



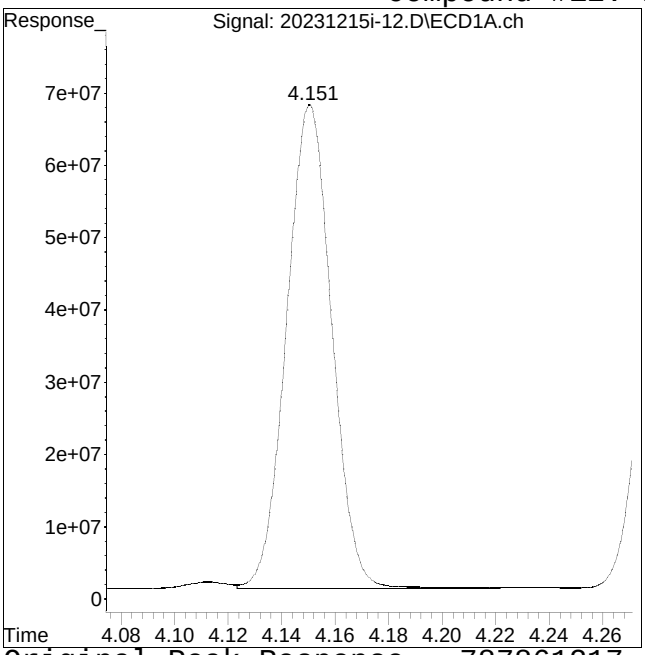
Manual Peak Response = 861235282 M4

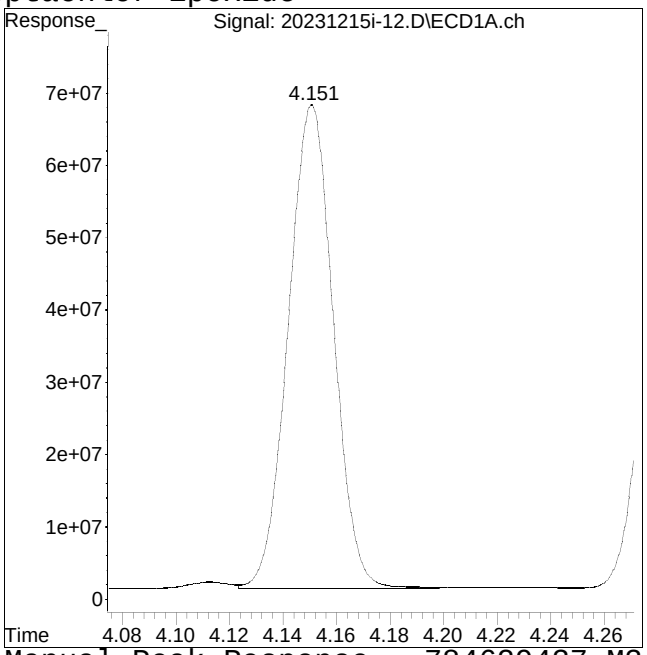
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2023\231215QMethod : pest20_2023_12_15_ugL_IC
Data File : 20231215i-12.D Operator : pest20:ejl
Date Inj'd : 12/15/2023 6:50 pm Instrument : PEST 20
Sample : il11pest,42e,,pp 11397 L0.Quant Date : 12/18/2023 11:34 am

Compound #12: Heptachlor Epoxide



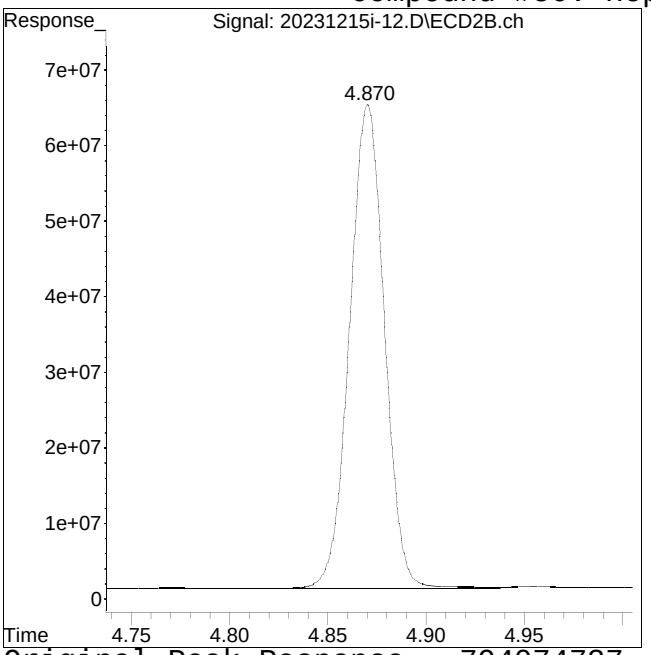


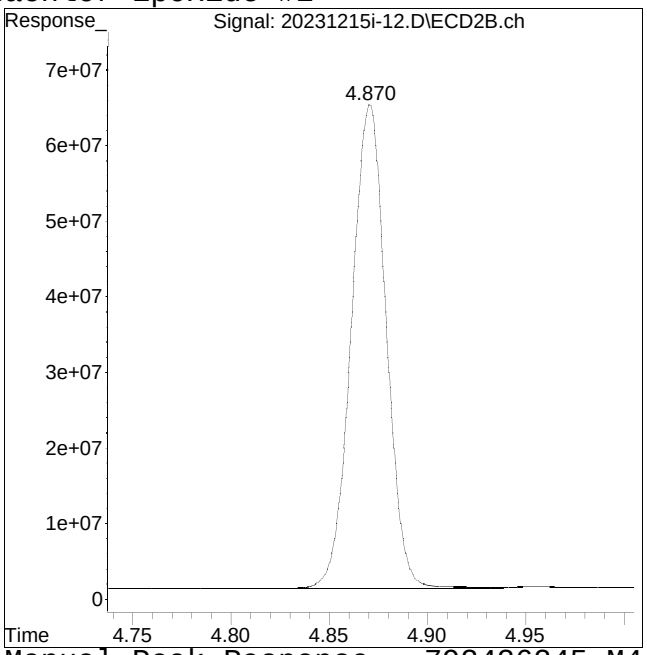
Original Peak Response = 787861217 Manual Peak Response = 784629437 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest20\2023\231215QMethod : pest20_2023_12_15_ugL_IC
Data File : 20231215i-12.D Operator : pest20:ejl
Date Inj'd : 12/15/2023 6:50 pm Instrument : PEST 20
Sample : il11pest,42e,,pp 11397 L0.Quant Date : 12/18/2023 11:34 am

Compound #50: Heptachlor Epoxide #2



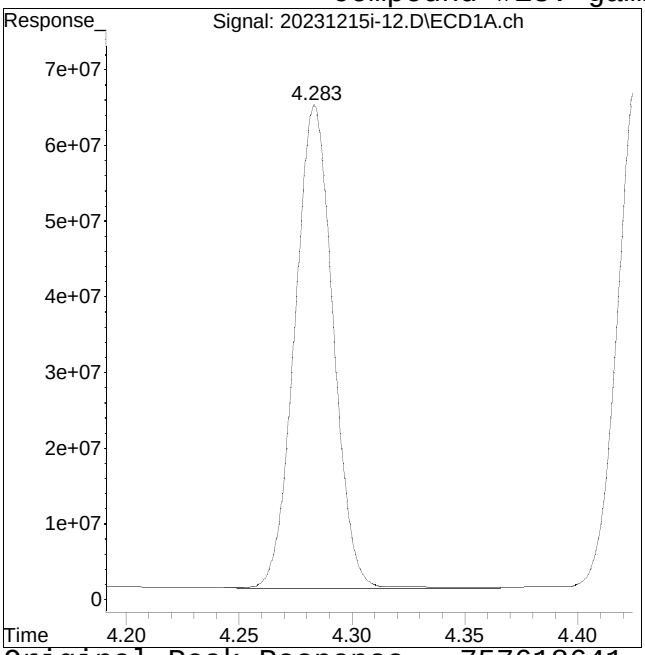


Original Peak Response = 794074737 Manual Peak Response = 792426245 M4
M4 = Poor automated baseline construction.

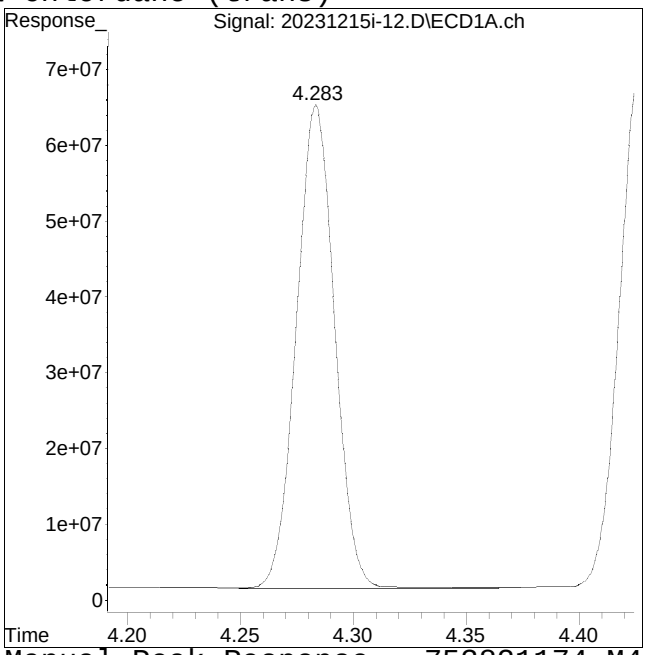
Manual Integration Report

Data Path : I:\PEST\Pest20\2023\231215QMethod : pest20_2023_12_15_ugL_IC
Data File : 20231215i-12.D Operator : pest20:ejl
Date Inj'd : 12/15/2023 6:50 pm Instrument : PEST 20
Sample : il11pest,42e,,pp 11397 L0.Quant Date : 12/18/2023 11:34 am

Compound #13: gamma-Chlordane (trans)



Original Peak Response = 757618641



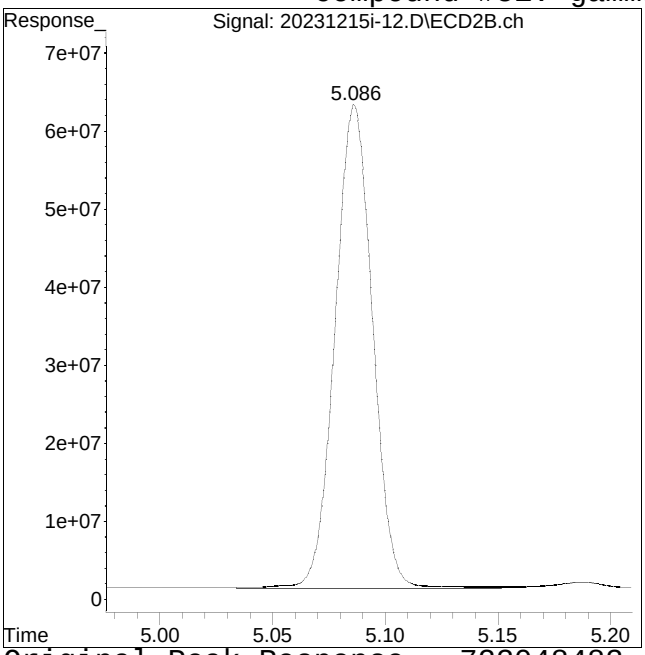
Manual Peak Response = 753821174 M4

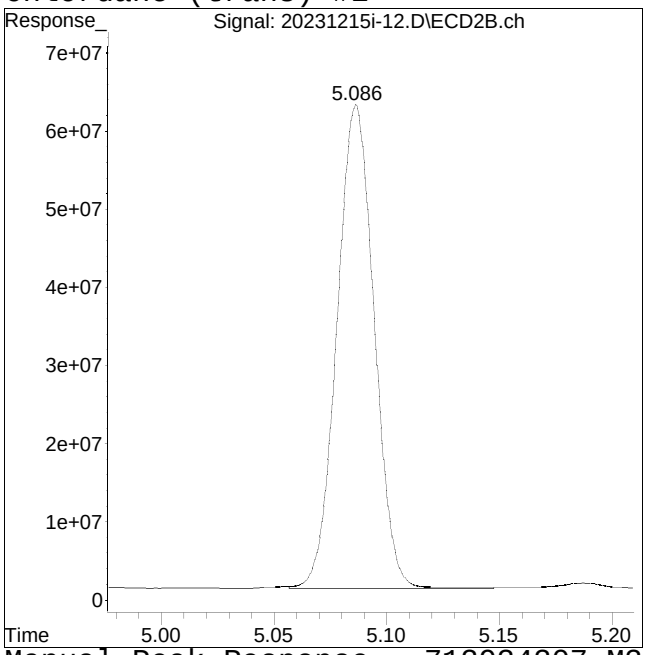
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2023\231215QMethod : pest20_2023_12_15_ugL_IC
Data File : 20231215i-12.D Operator : pest20:ejl
Date Inj'd : 12/15/2023 6:50 pm Instrument : PEST 20
Sample : il11pest,42e,,pp 11397 L0.Quant Date : 12/18/2023 11:34 am

Compound #51: gamma-Chlordane (trans) #2



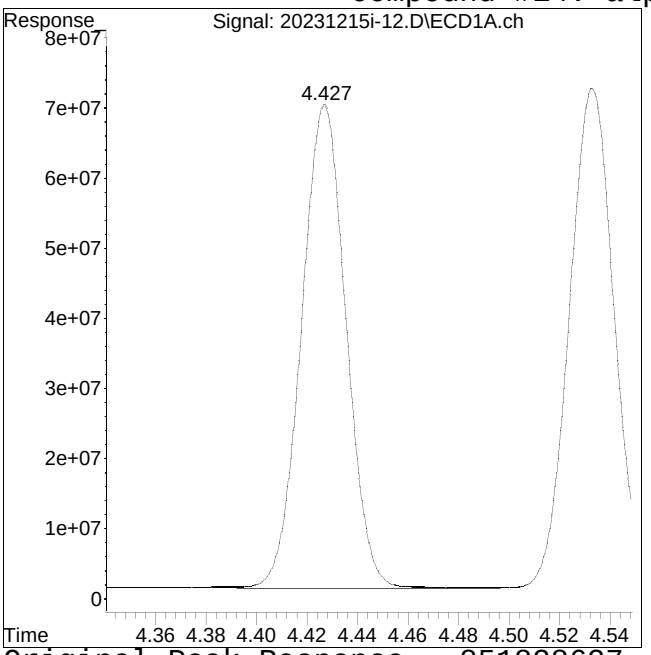


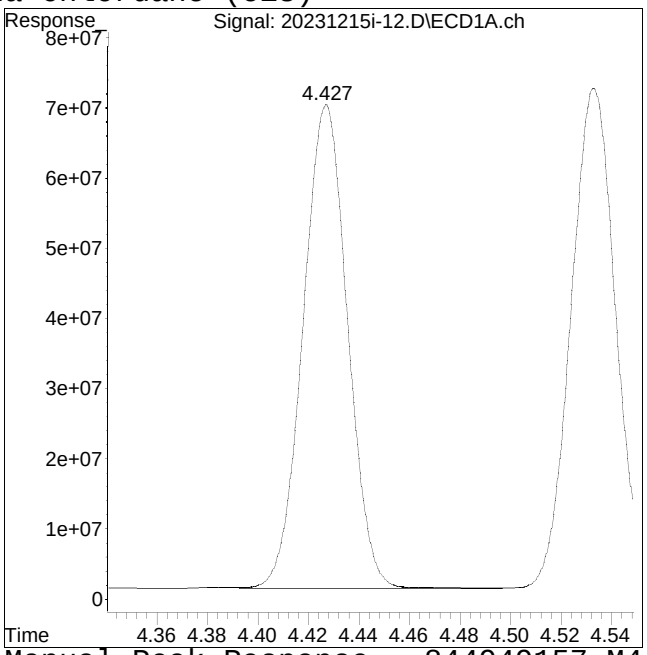
Original Peak Response = 723048483 Manual Peak Response = 712934307 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest20\2023\231215QMethod : pest20_2023_12_15_ugL_IC
Data File : 20231215i-12.D Operator : pest20:ejl
Date Inj'd : 12/15/2023 6:50 pm Instrument : PEST 20
Sample : il11pest,42e,,pp 11397 L0.Quant Date : 12/18/2023 11:34 am

Compound #14: alpha-Chlordane (cis)



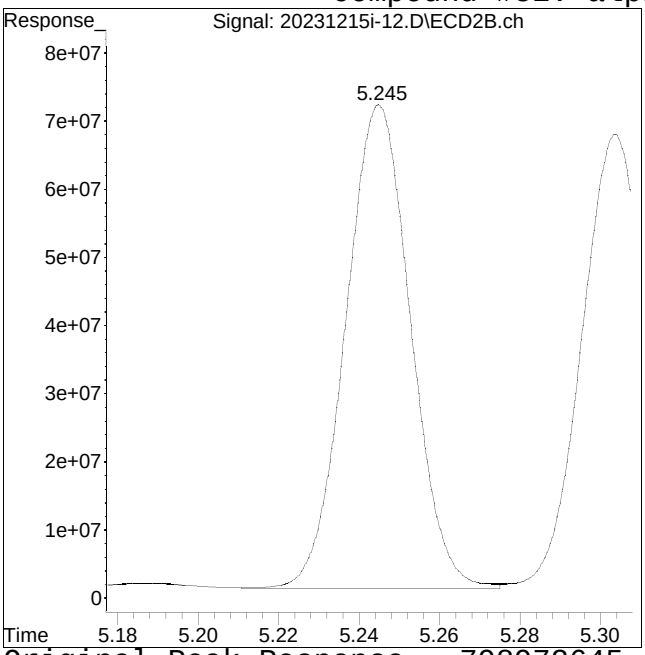


Original Peak Response = 851828627 Manual Peak Response = 844949157 M4
M4 = Poor automated baseline construction.

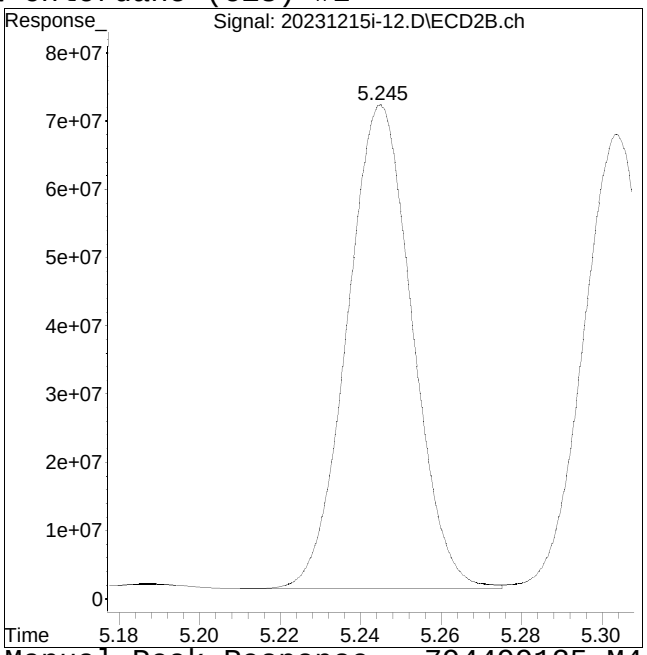
Manual Integration Report

Data Path : I:\PEST\Pest20\2023\231215QMethod : pest20_2023_12_15_ugL_IC
Data File : 20231215i-12.D Operator : pest20:ejl
Date Inj'd : 12/15/2023 6:50 pm Instrument : PEST 20
Sample : il11pest,42e,,pp 11397 L0.Quant Date : 12/18/2023 11:34 am

Compound #52: alpha-Chlordane (cis) #2



Original Peak Response = 798972645



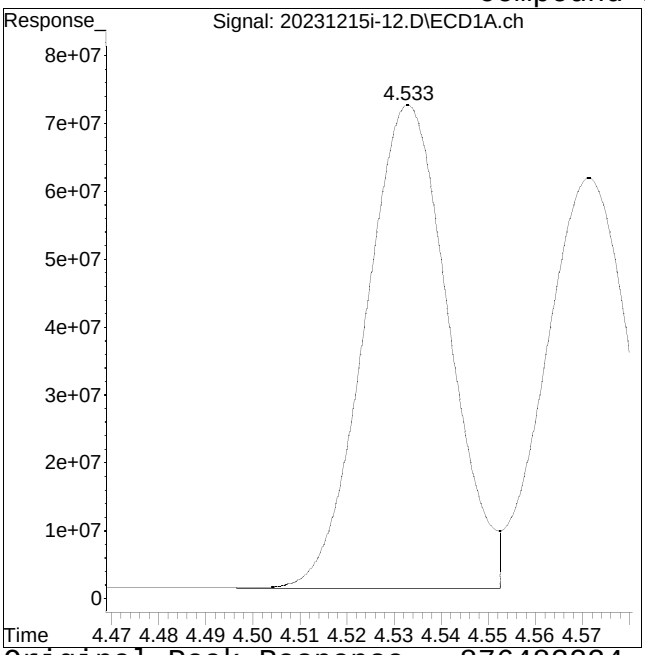
Manual Peak Response = 794499125 M4

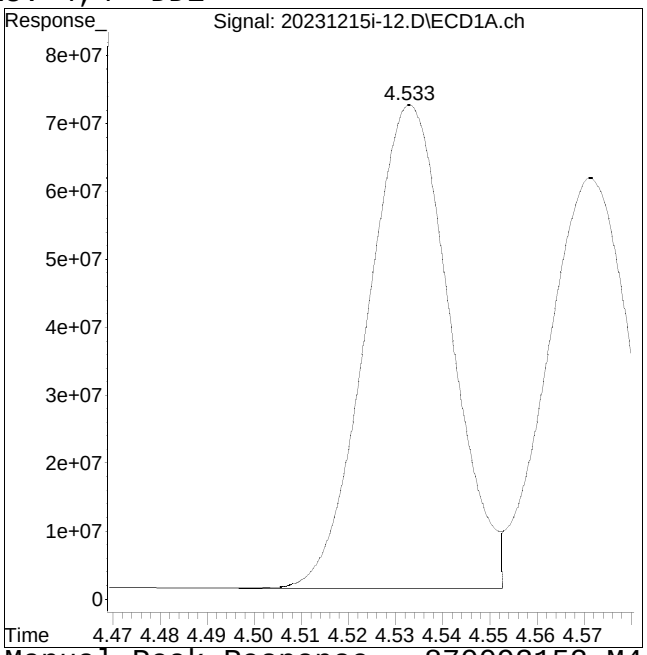
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2023\231215QMethod : pest20_2023_12_15_ugL_IC
Data File : 20231215i-12.D Operator : pest20:ejl
Date Inj'd : 12/15/2023 6:50 pm Instrument : PEST 20
Sample : il11pest,42e,,pp 11397 L0.Quant Date : 12/18/2023 11:34 am

Compound #15: 4,4'-DDE



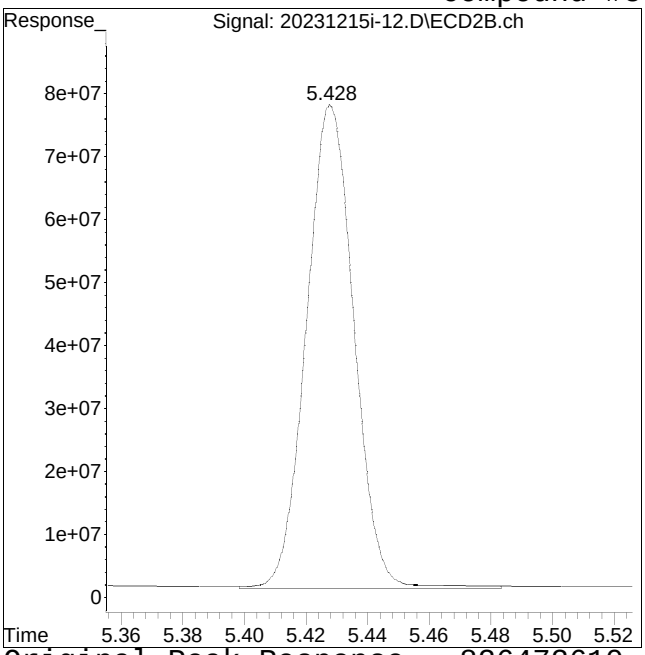


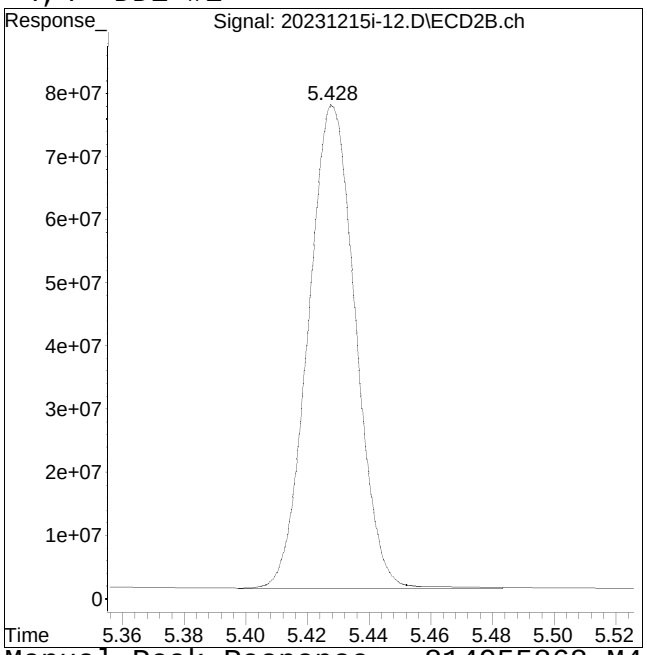
Original Peak Response = 876483224 Manual Peak Response = 870093152 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2023\231215QMethod : pest20_2023_12_15_ugL_IC
Data File : 20231215i-12.D Operator : pest20:ejl
Date Inj'd : 12/15/2023 6:50 pm Instrument : PEST 20
Sample : il11pest,42e,,pp 11397 L0.Quant Date : 12/18/2023 11:34 am

Compound #53: 4,4'-DDE #2



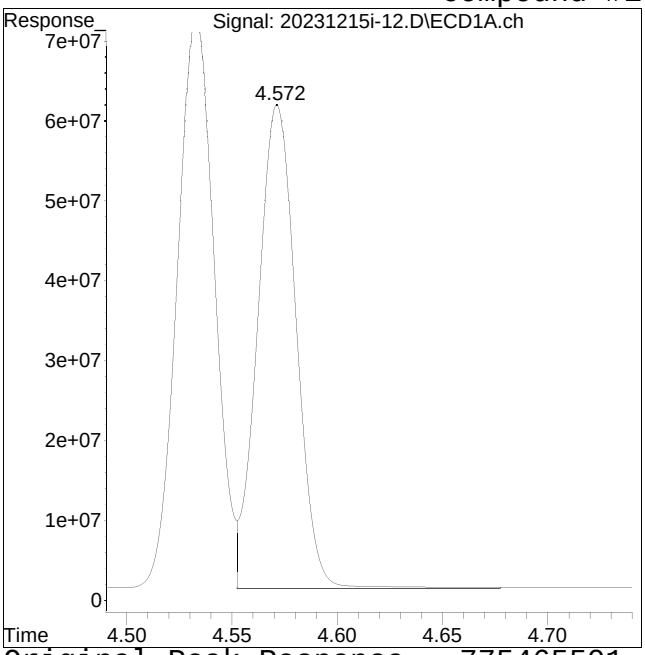


Original Peak Response = 826472610 Manual Peak Response = 814955868 M4
M4 = Poor automated baseline construction.

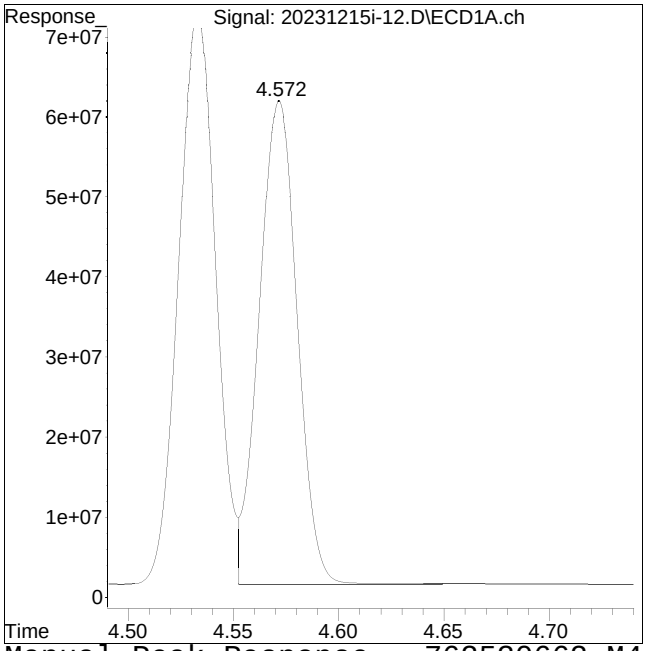
Manual Integration Report

Data Path : I:\PEST\Pest20\2023\231215QMethod : pest20_2023_12_15_ugL_IC
Data File : 20231215i-12.D Operator : pest20:ejl
Date Inj'd : 12/15/2023 6:50 pm Instrument : PEST 20
Sample : il11pest,42e,,pp 11397 L0.Quant Date : 12/18/2023 11:34 am

Compound #16: Endosulfan I



Original Peak Response = 775465501



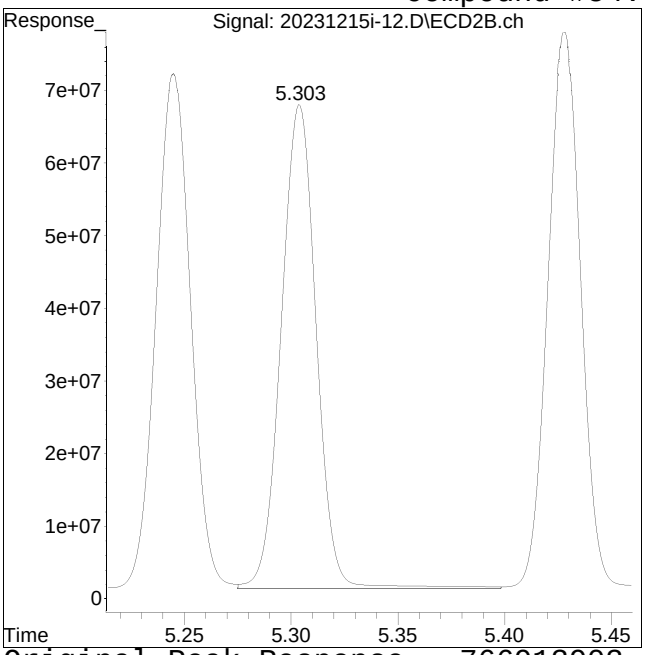
Manual Peak Response = 762530662 M4

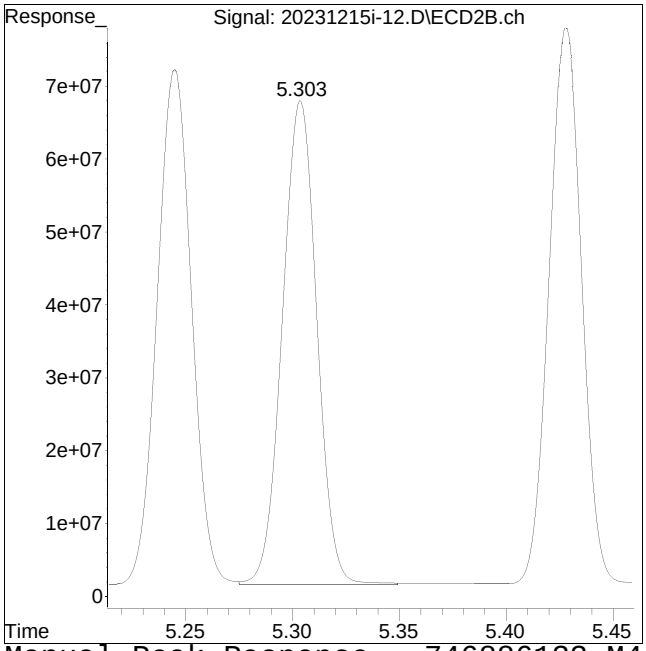
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2023\231215QMethod : pest20_2023_12_15_ugL_IC
Data File : 20231215i-12.D Operator : pest20:ejl
Date Inj'd : 12/15/2023 6:50 pm Instrument : PEST 20
Sample : il11pest,42e,,pp 11397 L0.Quant Date : 12/18/2023 11:34 am

Compound #54: Endosulfan I #2



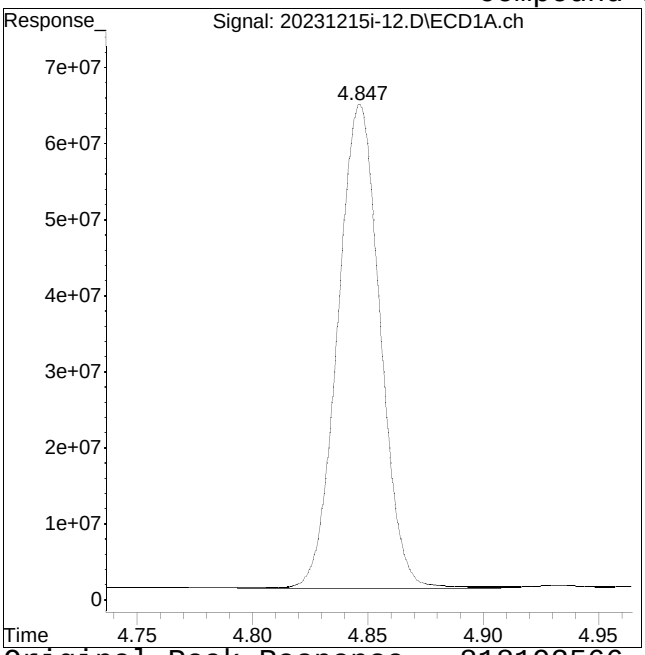


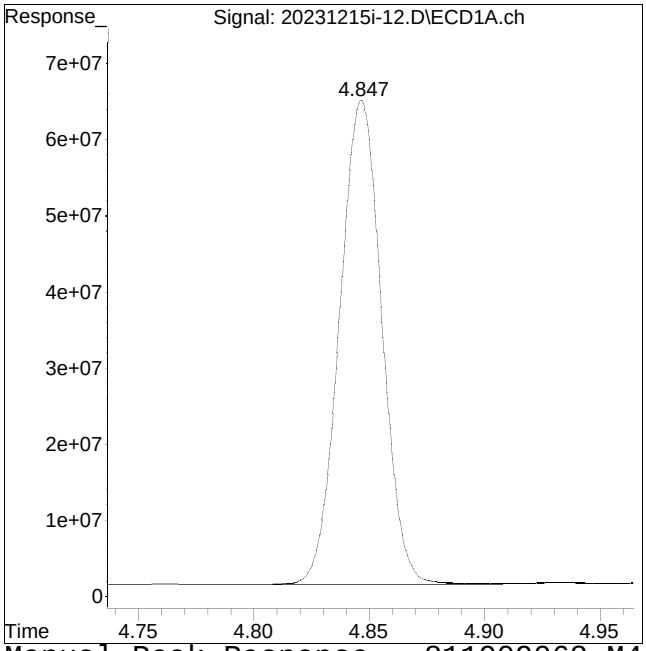
Original Peak Response = 766913903 Manual Peak Response = 746886133 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2023\231215QMethod : pest20_2023_12_15_ugL_IC
Data File : 20231215i-12.D Operator : pest20:ejl
Date Inj'd : 12/15/2023 6:50 pm Instrument : PEST 20
Sample : il11pest,42e,,pp 11397 L0.Quant Date : 12/18/2023 11:34 am

Compound #17: Dieldrin



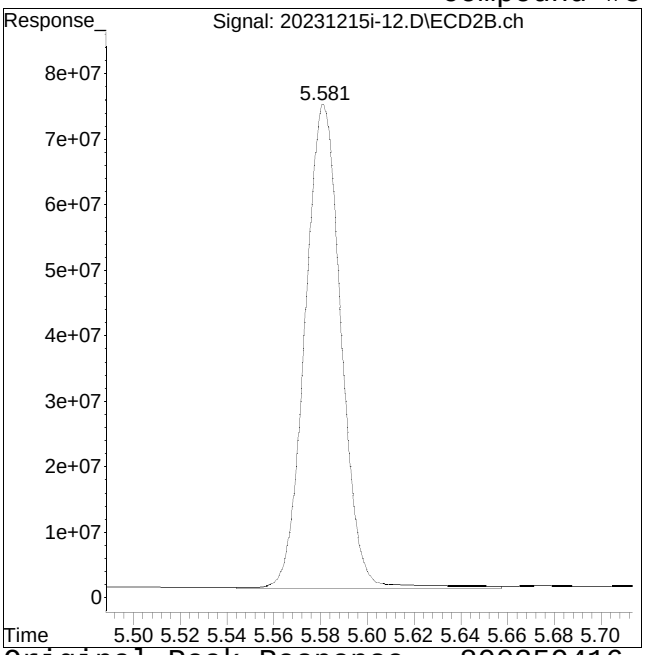


Original Peak Response = 818192566 Manual Peak Response = 811909068 M4
M4 = Poor automated baseline construction.

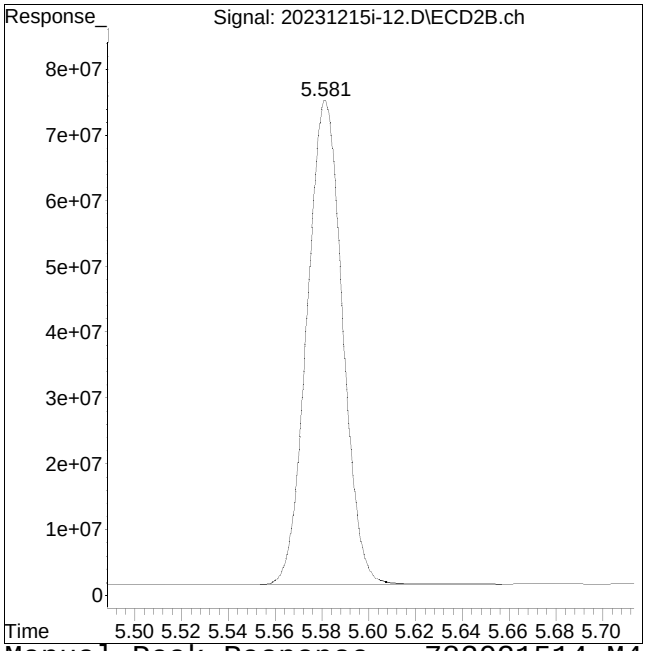
Manual Integration Report

Data Path : I:\PEST\Pest20\2023\231215QMethod : pest20_2023_12_15_ugL_IC
Data File : 20231215i-12.D Operator : pest20:ejl
Date Inj'd : 12/15/2023 6:50 pm Instrument : PEST 20
Sample : il11pest,42e,,pp 11397 L0.Quant Date : 12/18/2023 11:34 am

Compound #55: Dieldrin #2



Original Peak Response = 800359416



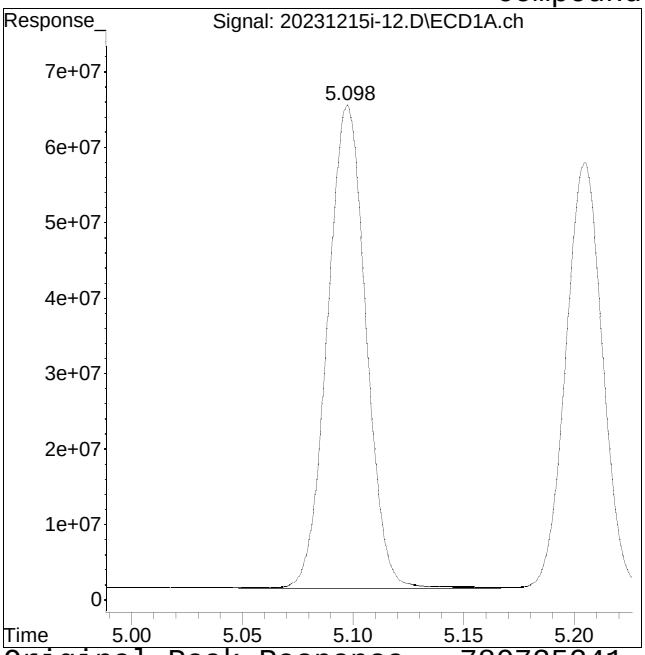
Manual Peak Response = 782021514 M4

M4 = Poor automated baseline construction.

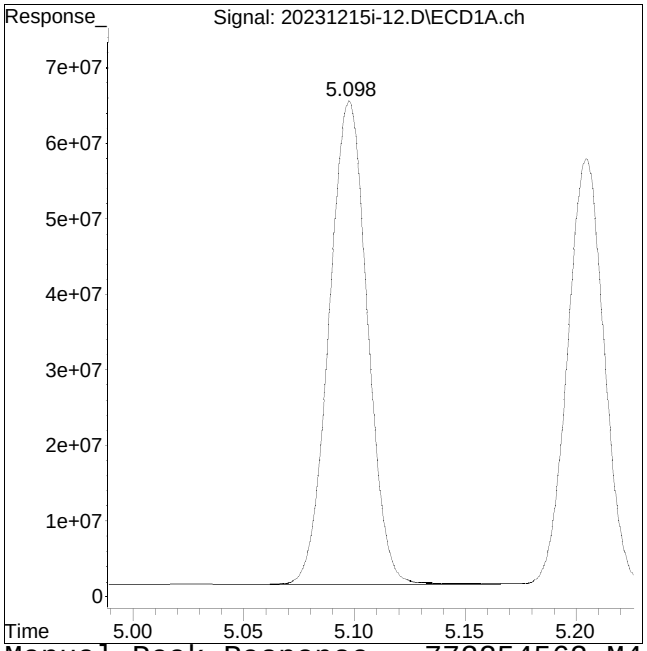
Manual Integration Report

Data Path : I:\PEST\Pest20\2023\231215QMethod : pest20_2023_12_15_ugL_IC
Data File : 20231215i-12.D Operator : pest20:ejl
Date Inj'd : 12/15/2023 6:50 pm Instrument : PEST 20
Sample : il11pest,42e,,pp 11397 L0.Quant Date : 12/18/2023 11:34 am

Compound #18: Endrin



Original Peak Response = 780735241



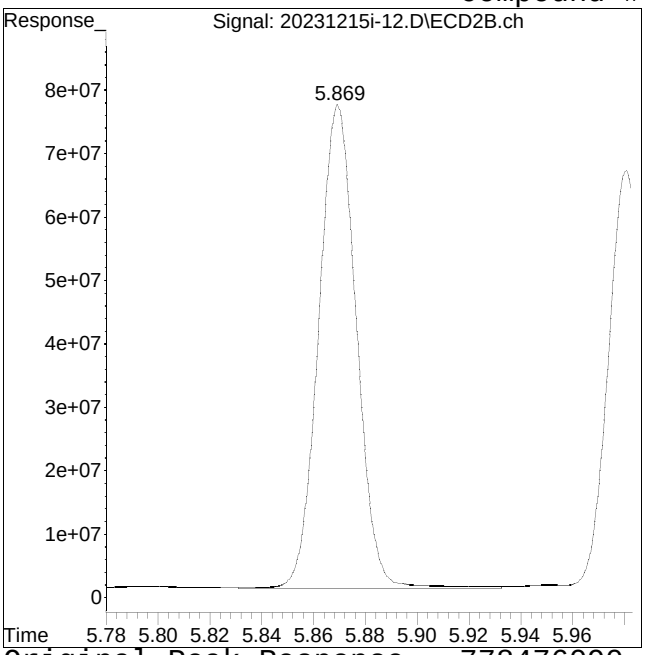
Manual Peak Response = 772254562 M4

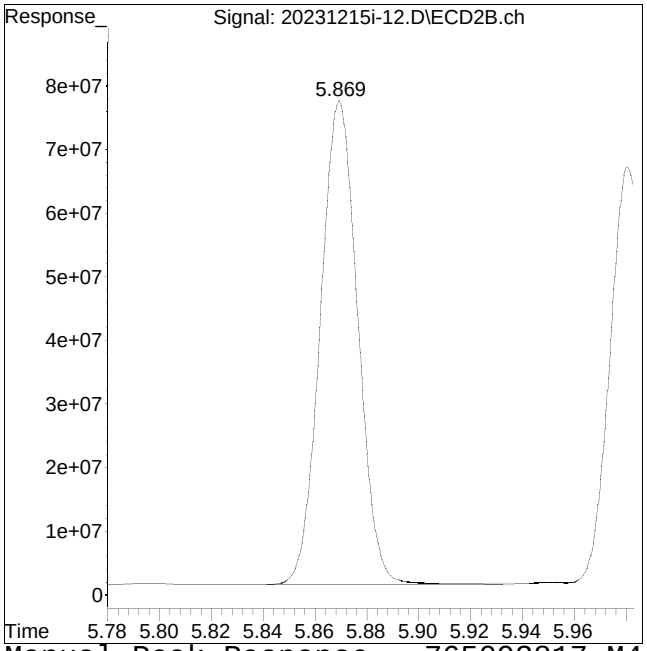
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2023\231215QMethod : pest20_2023_12_15_ugL_IC
Data File : 20231215i-12.D Operator : pest20:ejl
Date Inj'd : 12/15/2023 6:50 pm Instrument : PEST 20
Sample : il11pest,42e,,pp 11397 L0.Quant Date : 12/18/2023 11:34 am

Compound #56: Endrin #2



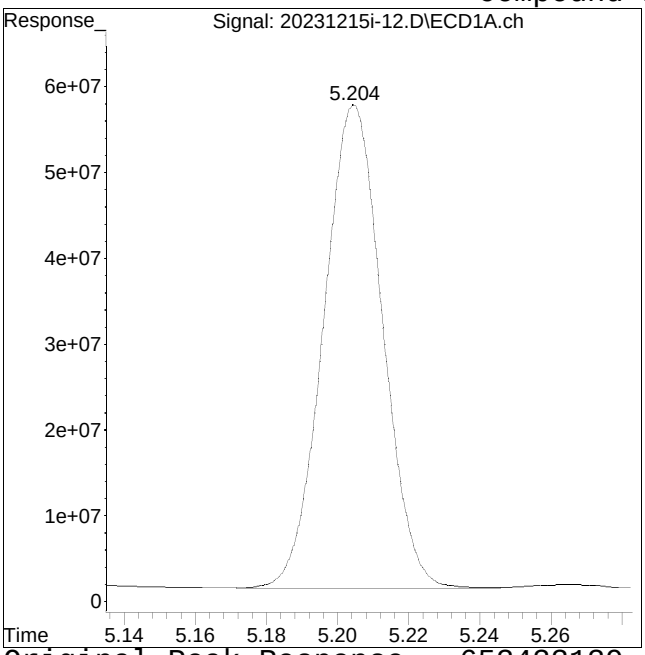


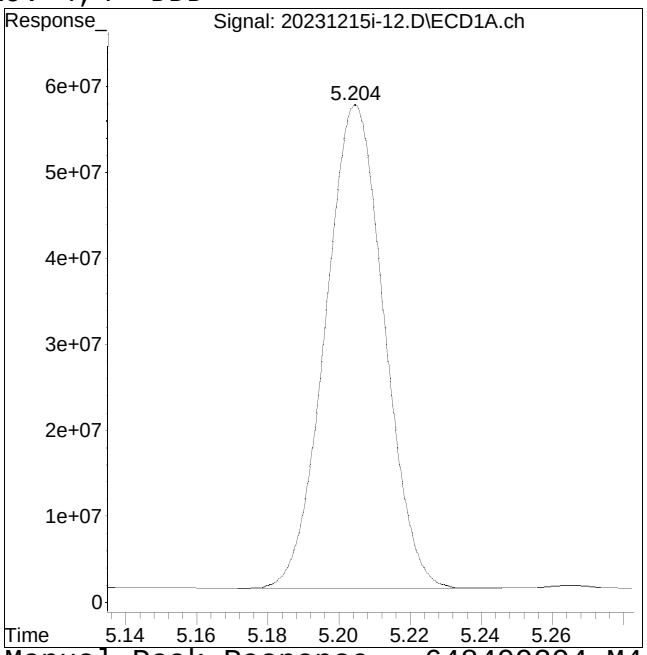
Original Peak Response = 778476090 Manual Peak Response = 765093817 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2023\231215QMethod : pest20_2023_12_15_ugL_IC
Data File : 20231215i-12.D Operator : pest20:ejl
Date Inj'd : 12/15/2023 6:50 pm Instrument : PEST 20
Sample : il11pest,42e,,pp 11397 L0.Quant Date : 12/18/2023 11:34 am

Compound #19: 4,4'-DDD



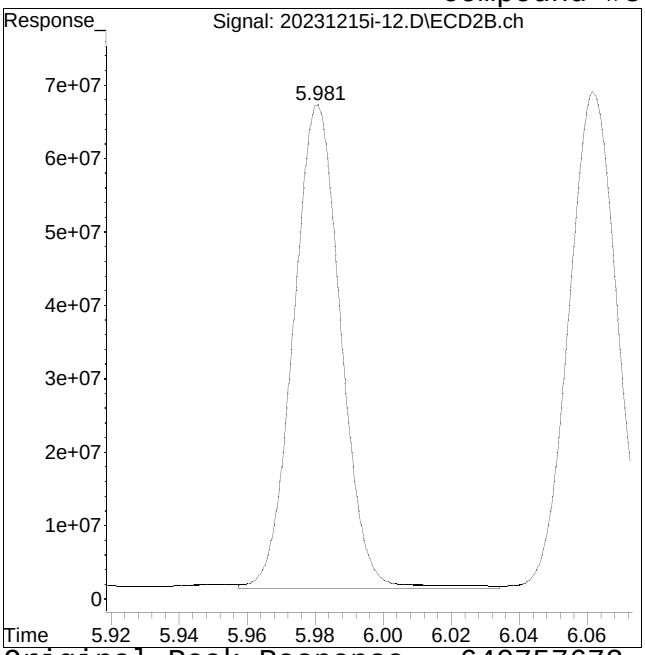


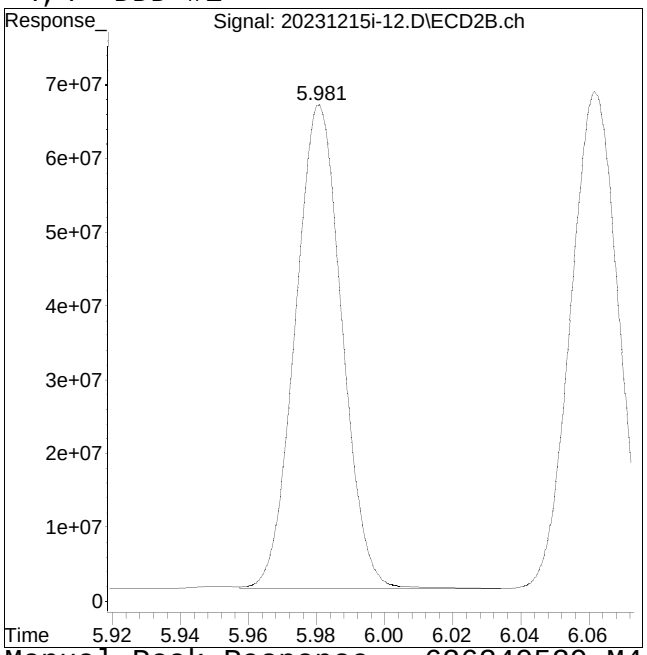
Original Peak Response = 653433139 Manual Peak Response = 648409294 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2023\231215QMethod : pest20_2023_12_15_ugL_IC
Data File : 20231215i-12.D Operator : pest20:ejl
Date Inj'd : 12/15/2023 6:50 pm Instrument : PEST 20
Sample : il11pest,42e,,pp 11397 L0.Quant Date : 12/18/2023 11:34 am

Compound #57: 4,4'-DDD #2



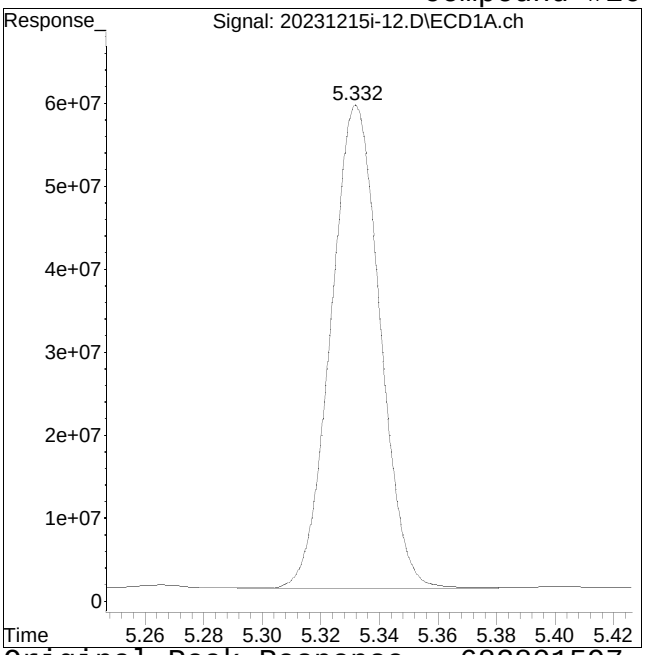


Original Peak Response = 640757672 Manual Peak Response = 626340529 M4
M4 = Poor automated baseline construction.

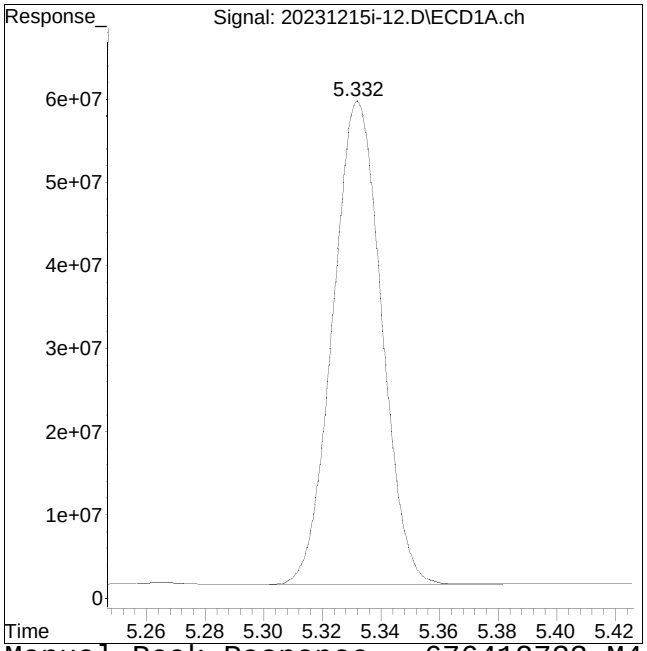
Manual Integration Report

Data Path : I:\PEST\Pest20\2023\231215QMethod : pest20_2023_12_15_ugL_IC
Data File : 20231215i-12.D Operator : pest20:ejl
Date Inj'd : 12/15/2023 6:50 pm Instrument : PEST 20
Sample : il11pest,42e,,pp 11397 L0.Quant Date : 12/18/2023 11:34 am

Compound #20: Endosulfan II



Original Peak Response = 682801597

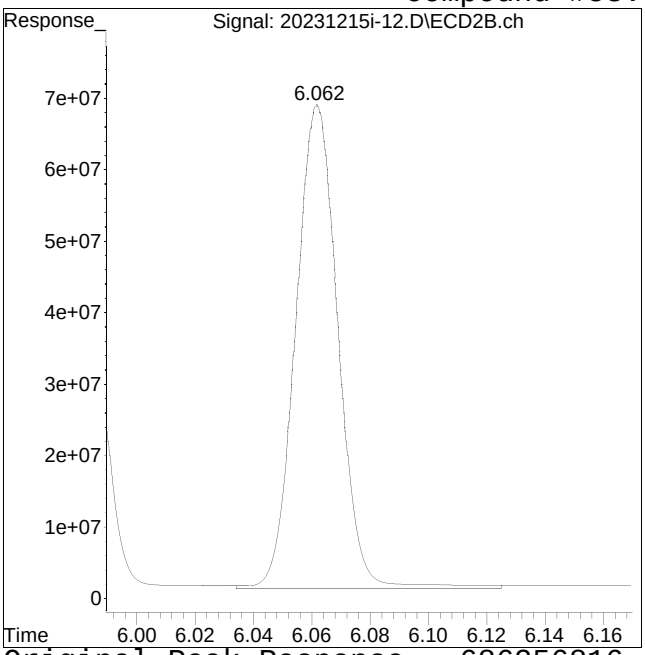


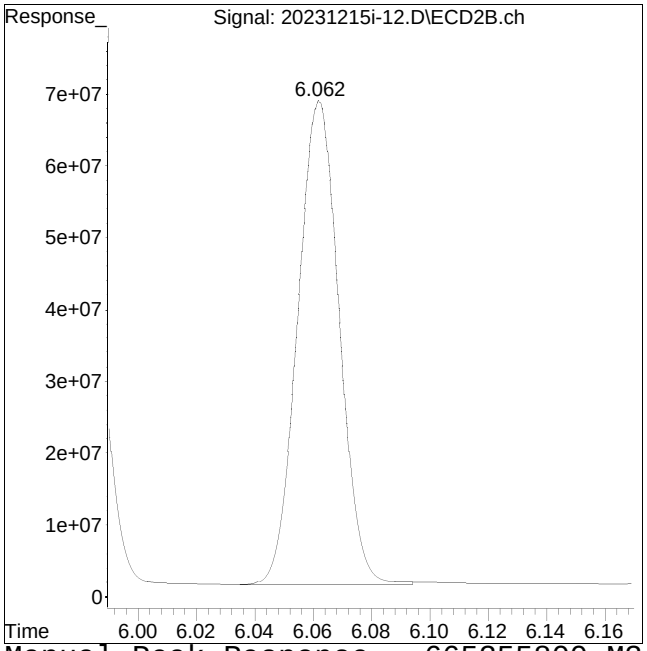
Manual Peak Response = 676412733 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2023\231215QMethod : pest20_2023_12_15_ugL_IC
Data File : 20231215i-12.D Operator : pest20:ejl
Date Inj'd : 12/15/2023 6:50 pm Instrument : PEST 20
Sample : il11pest,42e,,pp 11397 L0.Quant Date : 12/18/2023 11:34 am

Compound #58: Endosulfan II #2



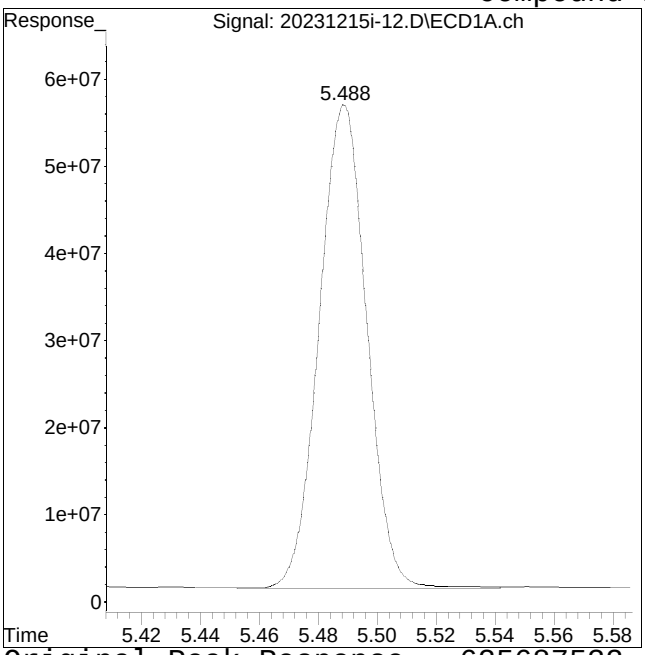


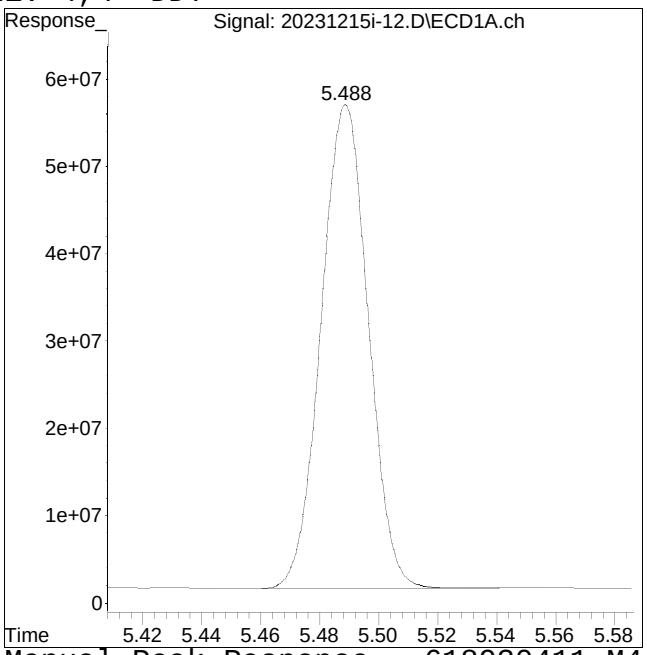
Original Peak Response = 686256816 Manual Peak Response = 665355800 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest20\2023\231215QMethod : pest20_2023_12_15_ugL_IC
Data File : 20231215i-12.D Operator : pest20:ejl
Date Inj'd : 12/15/2023 6:50 pm Instrument : PEST 20
Sample : il11pest,42e,,pp 11397 L0.Quant Date : 12/18/2023 11:34 am

Compound #21: 4,4'-DDT



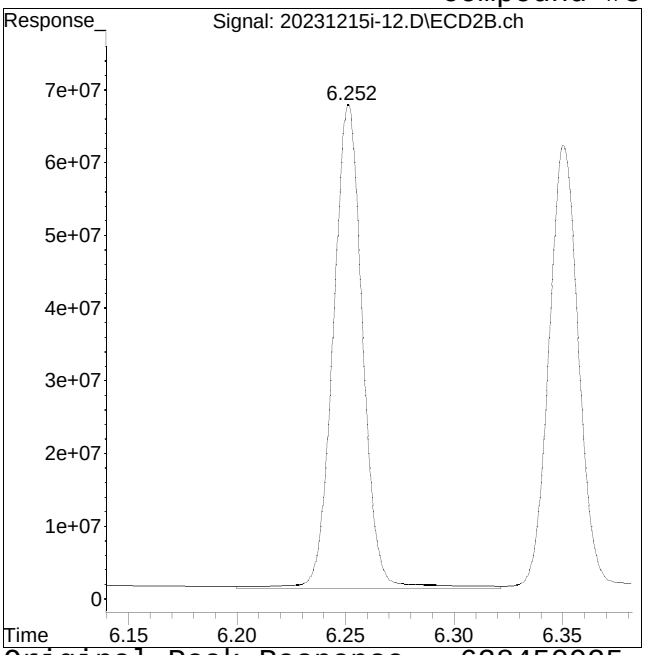


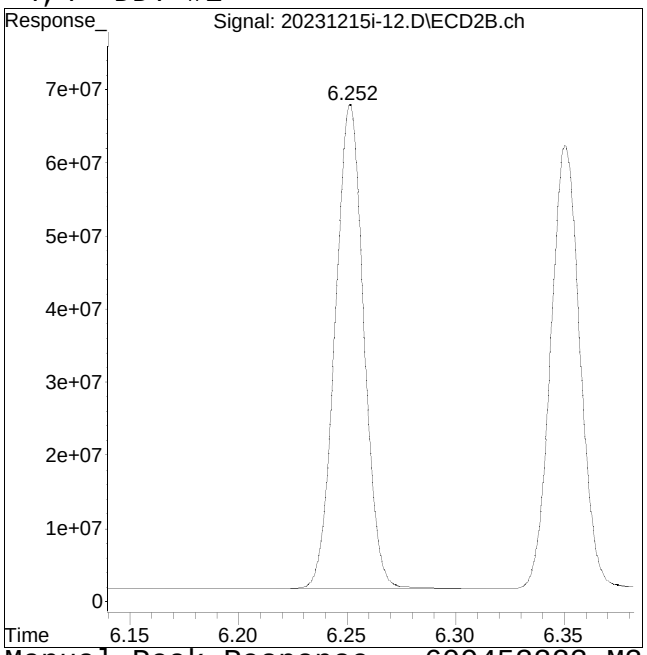
Original Peak Response = 625687532 Manual Peak Response = 618930411 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2023\231215QMethod : pest20_2023_12_15_ugL_IC
Data File : 20231215i-12.D Operator : pest20:ejl
Date Inj'd : 12/15/2023 6:50 pm Instrument : PEST 20
Sample : il11pest,42e,,pp 11397 L0.Quant Date : 12/18/2023 11:34 am

Compound #59: 4,4'-DDT #2



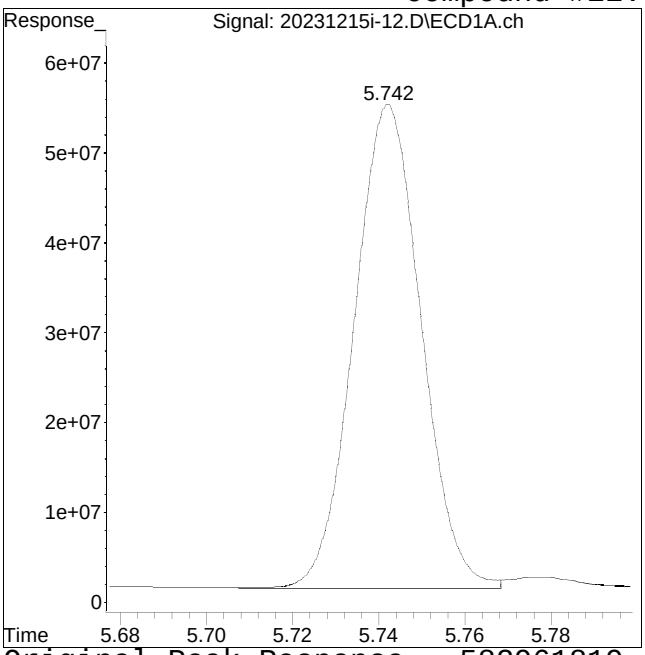


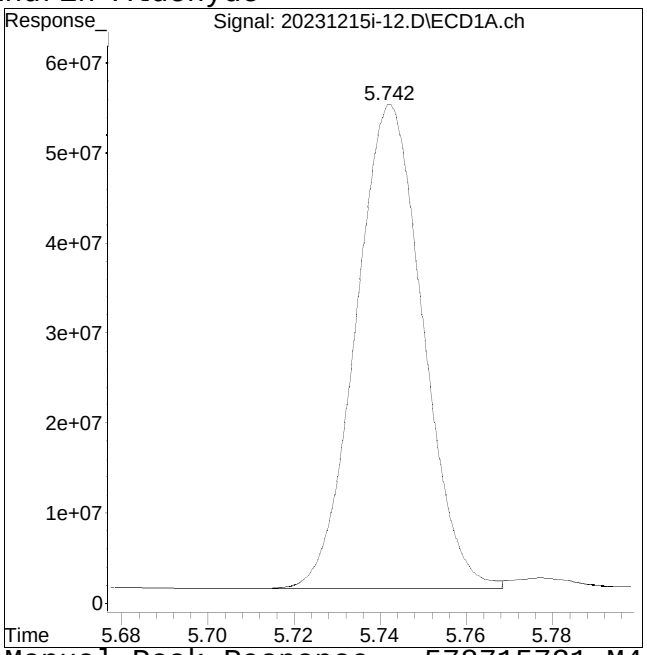
Original Peak Response = 638450925 Manual Peak Response = 609453323 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest20\2023\231215QMethod : pest20_2023_12_15_ugL_IC
Data File : 20231215i-12.D Operator : pest20:ejl
Date Inj'd : 12/15/2023 6:50 pm Instrument : PEST 20
Sample : il11pest,42e,,pp 11397 L0.Quant Date : 12/18/2023 11:34 am

Compound #22: Endrin Aldehyde



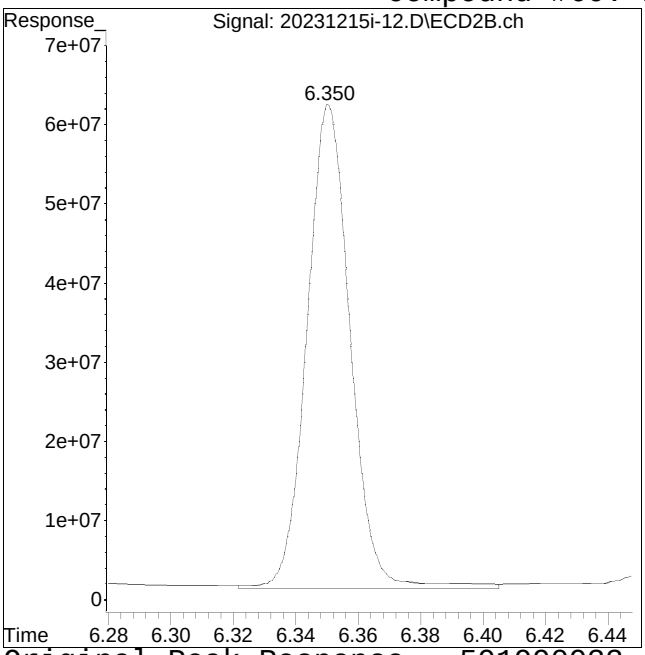


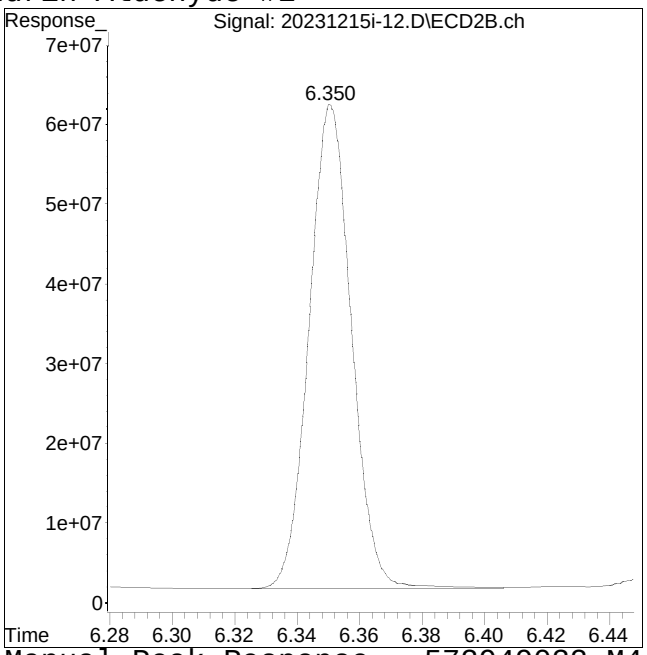
Original Peak Response = 582961819 Manual Peak Response = 578715731 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2023\231215QMethod : pest20_2023_12_15_ugL_IC
Data File : 20231215i-12.D Operator : pest20:ejl
Date Inj'd : 12/15/2023 6:50 pm Instrument : PEST 20
Sample : il11pest,42e,,pp 11397 L0.Quant Date : 12/18/2023 11:34 am

Compound #60: Endrin Aldehyde #2



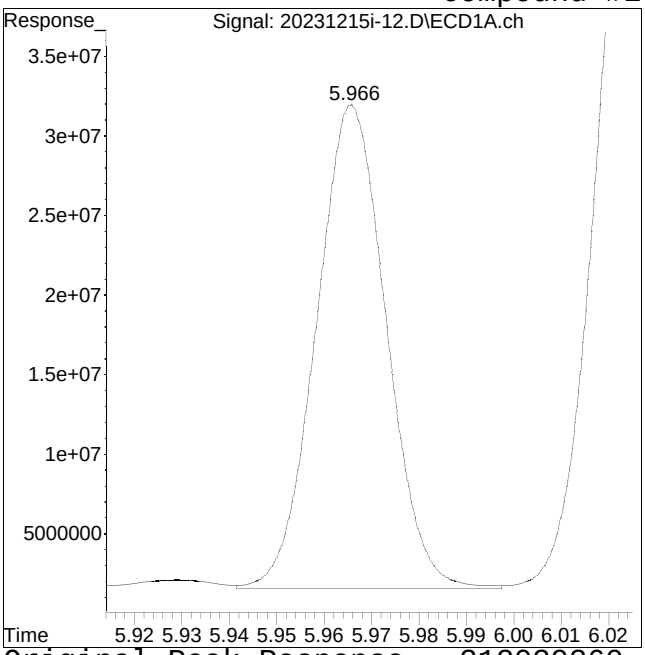


Original Peak Response = 591990933 Manual Peak Response = 572949032 M4
M4 = Poor automated baseline construction.

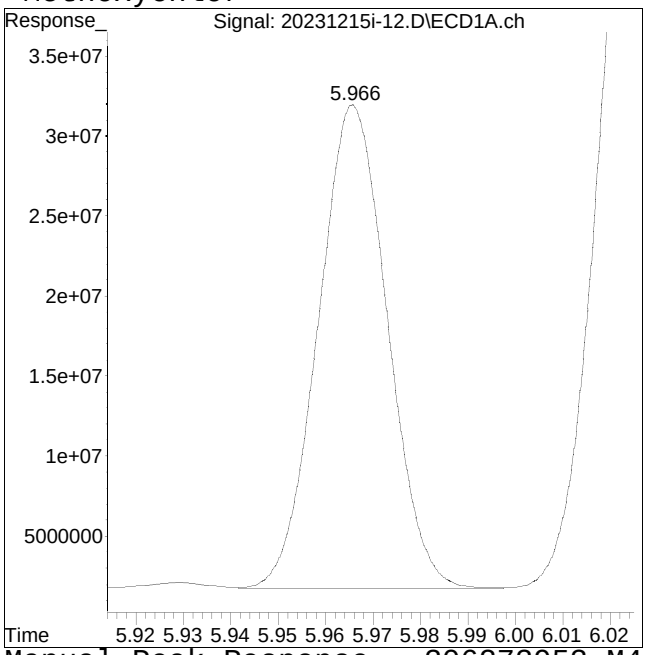
Manual Integration Report

Data Path : I:\PEST\Pest20\2023\231215QMethod : pest20_2023_12_15_ugL_IC
Data File : 20231215i-12.D Operator : pest20:ejl
Date Inj'd : 12/15/2023 6:50 pm Instrument : PEST 20
Sample : il11pest,42e,,pp 11397 L0.Quant Date : 12/18/2023 11:34 am

Compound #23: Methoxychlor



Original Peak Response = 312039360

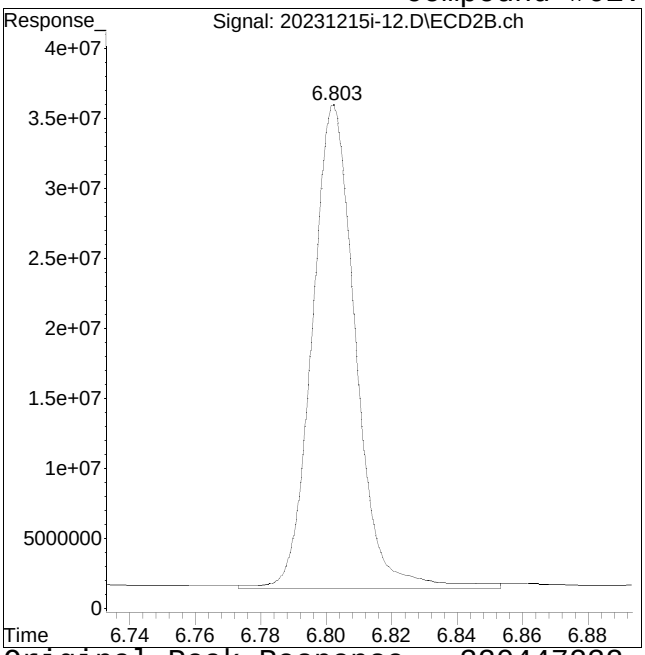


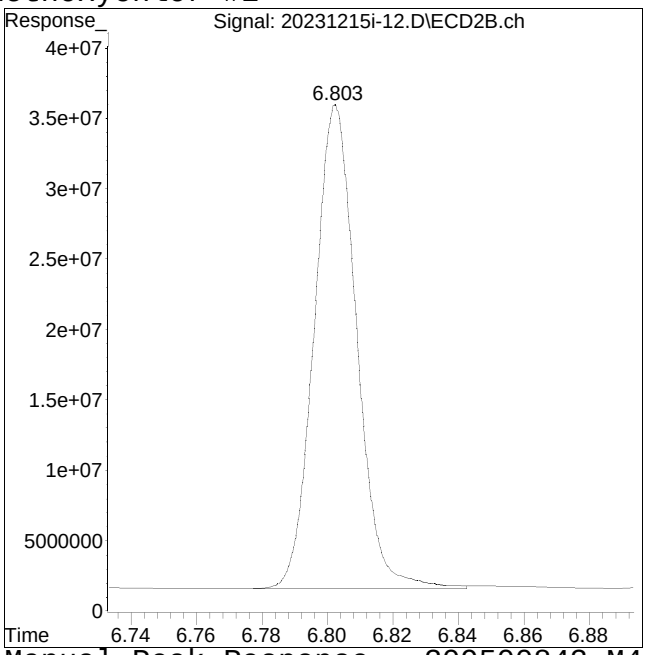
Manual Peak Response = 306273953 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2023\231215QMethod : pest20_2023_12_15_ugL_IC
Data File : 20231215i-12.D Operator : pest20:ejl
Date Inj'd : 12/15/2023 6:50 pm Instrument : PEST 20
Sample : il11pest,42e,,pp 11397 L0.Quant Date : 12/18/2023 11:34 am

Compound #61: Methoxychlor #2



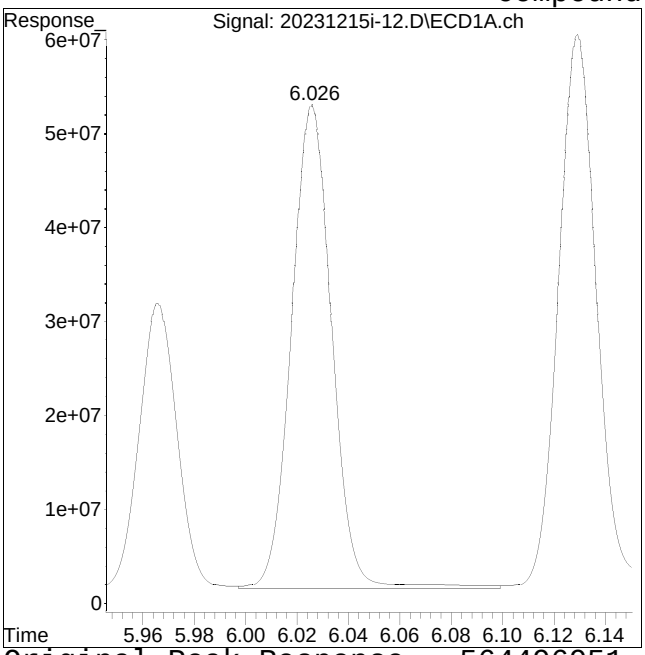


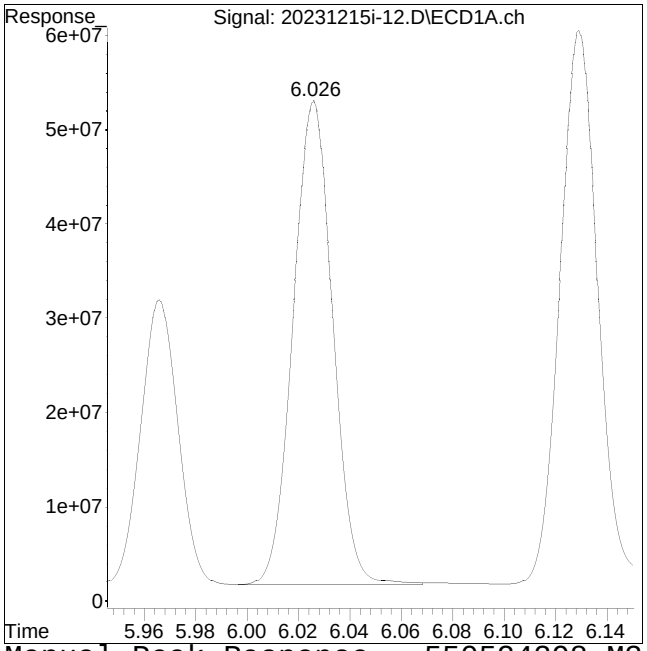
Original Peak Response = 320447232 Manual Peak Response = 309500843 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2023\231215QMethod : pest20_2023_12_15_ugL_IC
Data File : 20231215i-12.D Operator : pest20:ejl
Date Inj'd : 12/15/2023 6:50 pm Instrument : PEST 20
Sample : il11pest,42e,,pp 11397 L0.Quant Date : 12/18/2023 11:34 am

Compound #24: Mirex



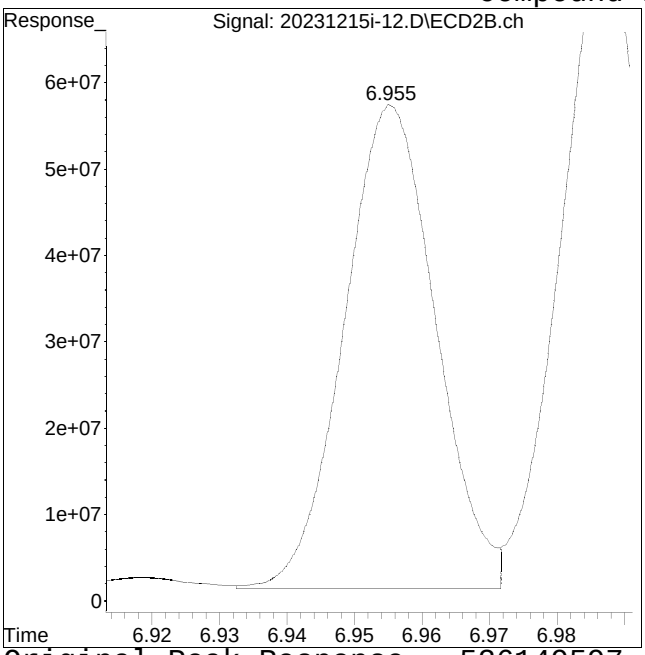


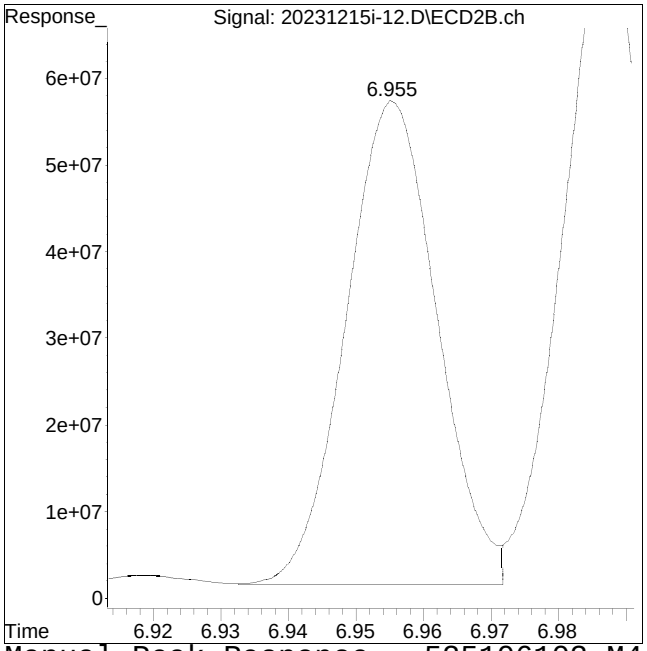
Original Peak Response = 564496951 Manual Peak Response = 550524298 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest20\2023\231215QMethod : pest20_2023_12_15_ugL_IC
Data File : 20231215i-12.D Operator : pest20:ejl
Date Inj'd : 12/15/2023 6:50 pm Instrument : PEST 20
Sample : il11pest,42e,,pp 11397 L0.Quant Date : 12/18/2023 11:34 am

Compound #62: Mirex #2



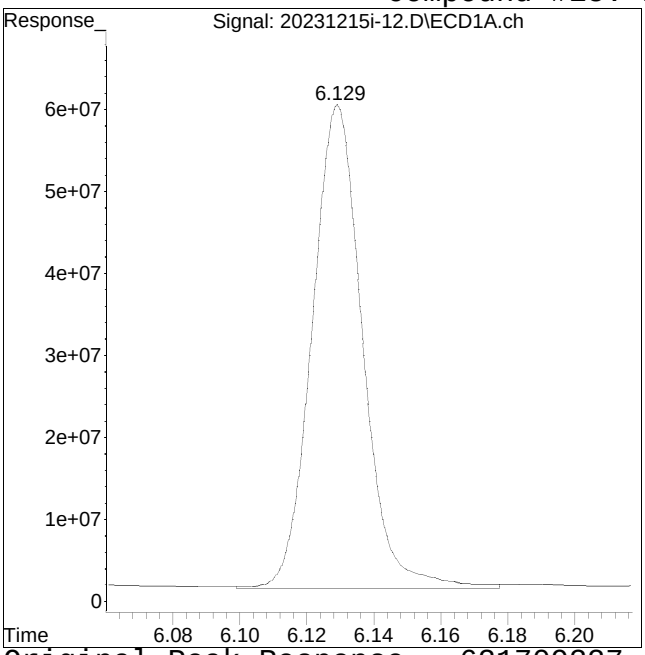


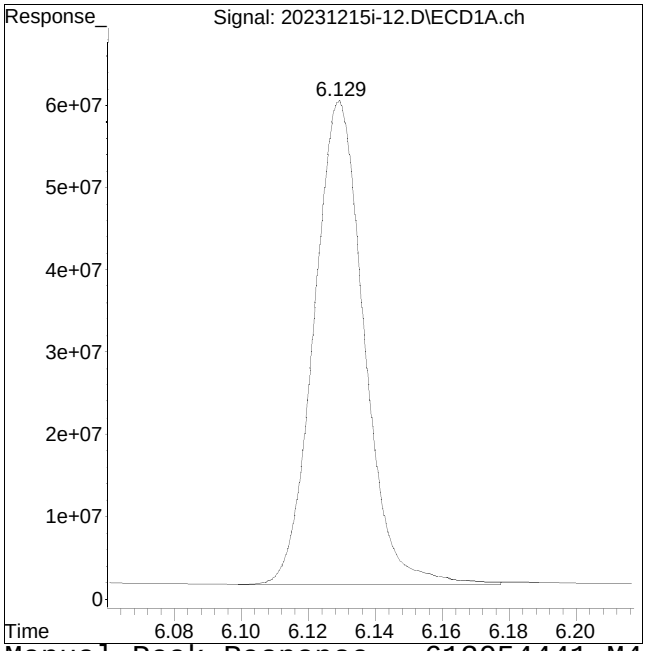
Original Peak Response = 526149597 Manual Peak Response = 525106103 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2023\231215QMethod : pest20_2023_12_15_ugL_IC
Data File : 20231215i-12.D Operator : pest20:ejl
Date Inj'd : 12/15/2023 6:50 pm Instrument : PEST 20
Sample : il11pest,42e,,pp 11397 L0.Quant Date : 12/18/2023 11:34 am

Compound #25: Endosulfan Sulfate



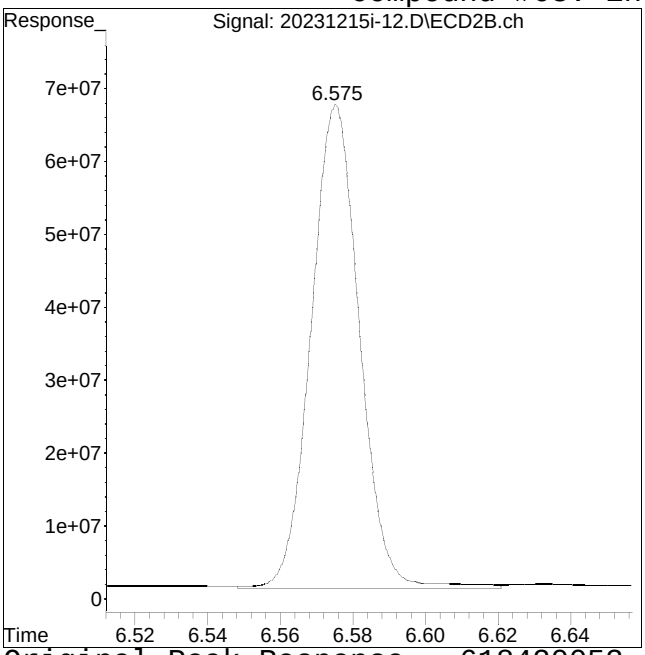


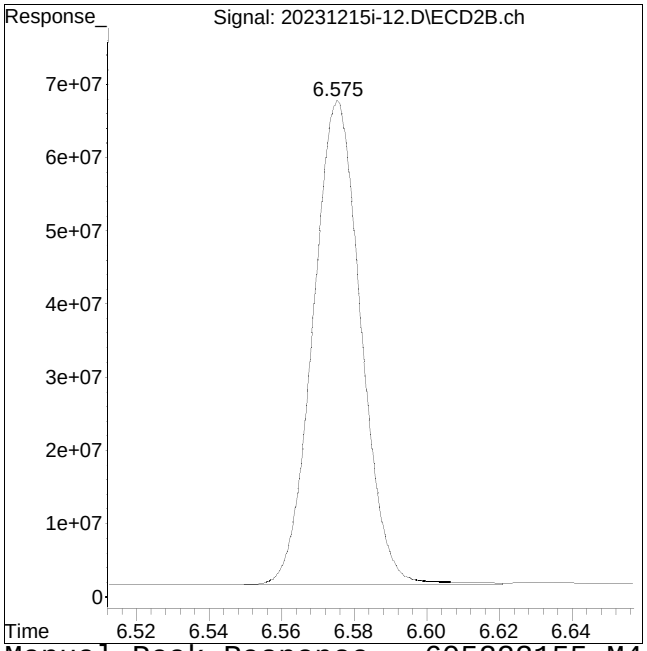
Original Peak Response = 621709327 Manual Peak Response = 612054441 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2023\231215QMethod : pest20_2023_12_15_ugL_IC
Data File : 20231215i-12.D Operator : pest20:ejl
Date Inj'd : 12/15/2023 6:50 pm Instrument : PEST 20
Sample : il11pest,42e,,pp 11397 L0.Quant Date : 12/18/2023 11:34 am

Compound #63: Endosulfan Sulfate #2



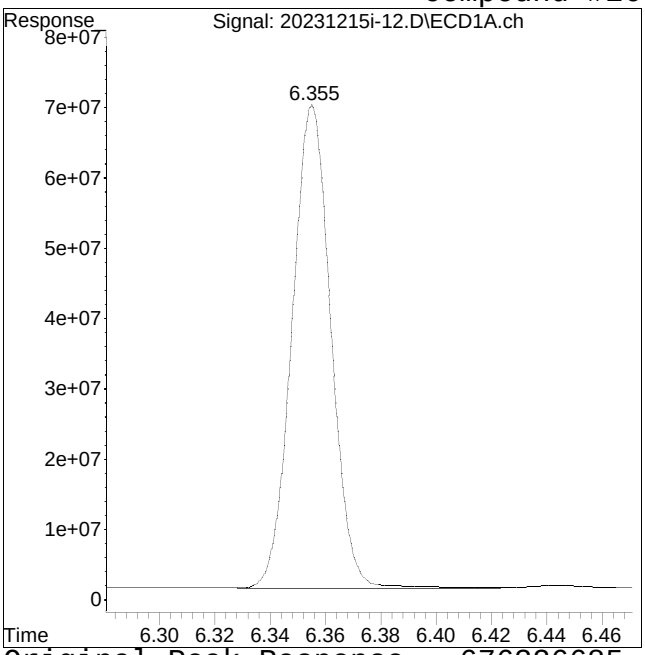


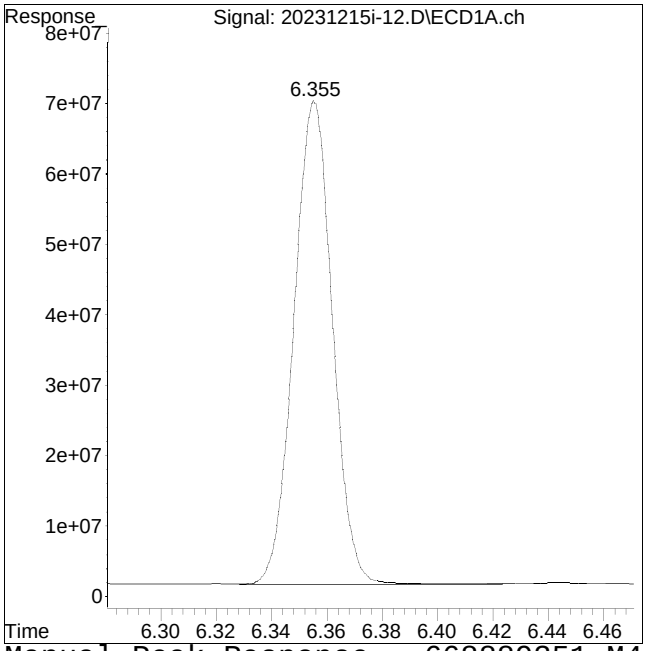
Original Peak Response = 618420053 Manual Peak Response = 605223155 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2023\231215QMethod : pest20_2023_12_15_ugL_IC
Data File : 20231215i-12.D Operator : pest20:ejl
Date Inj'd : 12/15/2023 6:50 pm Instrument : PEST 20
Sample : il11pest,42e,,pp 11397 L0.Quant Date : 12/18/2023 11:34 am

Compound #26: Endrin Ketone



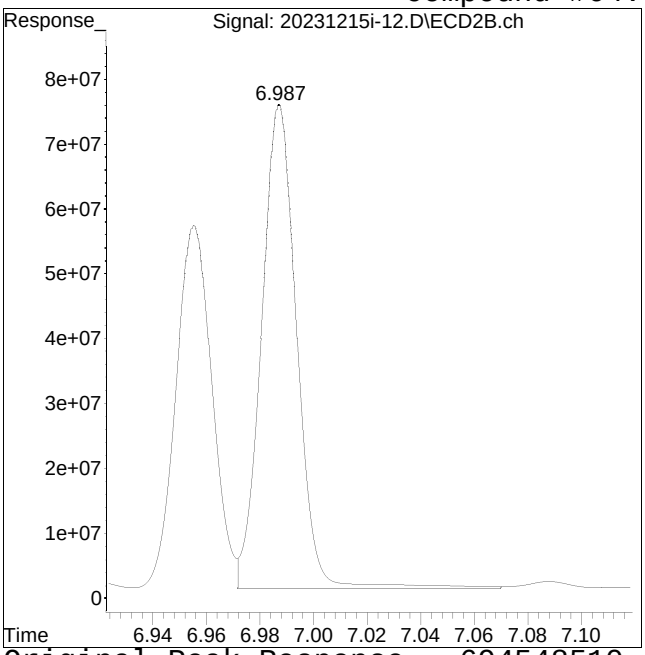


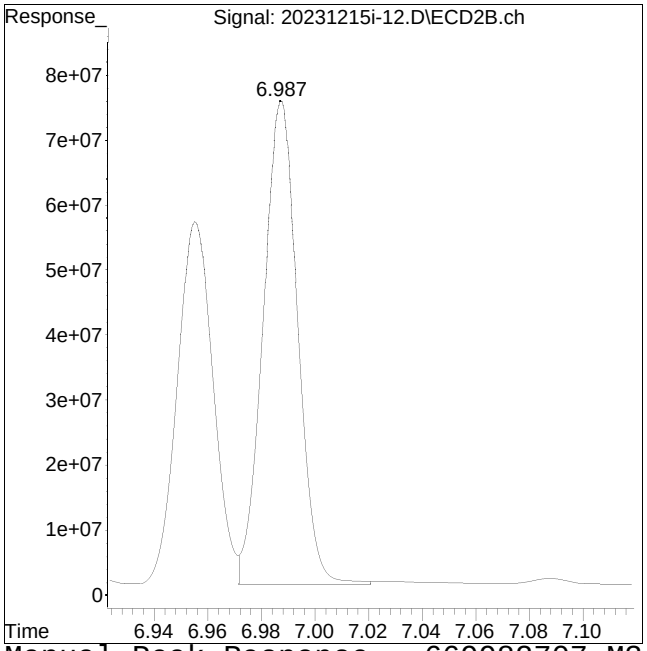
Original Peak Response = 676326685 Manual Peak Response = 668889351 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2023\231215QMethod : pest20_2023_12_15_ugL_IC
Data File : 20231215i-12.D Operator : pest20:ejl
Date Inj'd : 12/15/2023 6:50 pm Instrument : PEST 20
Sample : il11pest,42e,,pp 11397 L0.Quant Date : 12/18/2023 11:34 am

Compound #64: Endrin Ketone #2



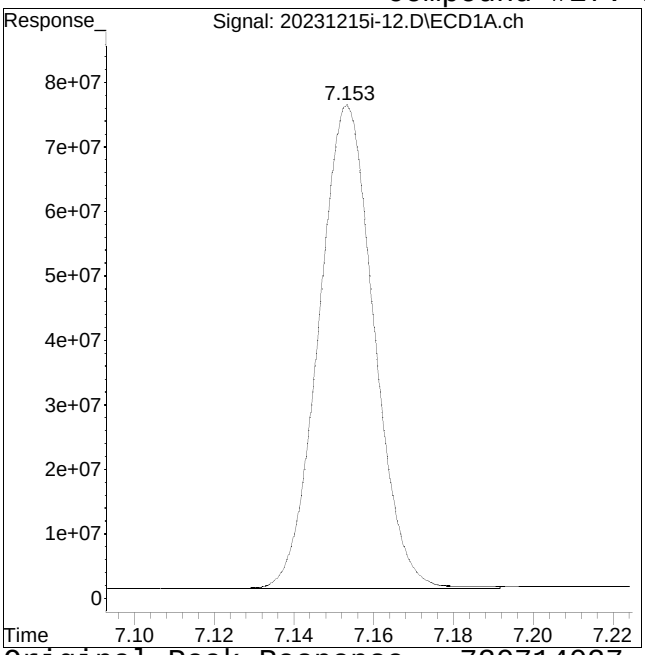


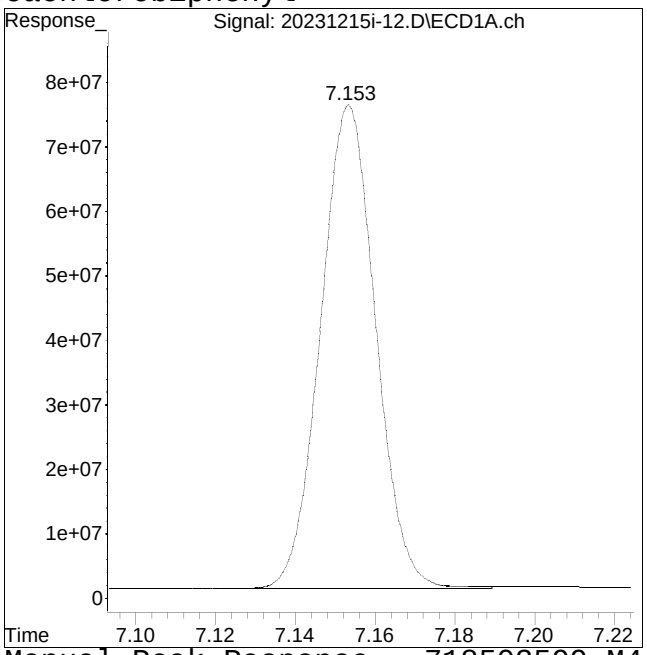
Original Peak Response = 694548510 Manual Peak Response = 669982707 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest20\2023\231215QMethod : pest20_2023_12_15_ugL_IC
Data File : 20231215i-12.D Operator : pest20:ejl
Date Inj'd : 12/15/2023 6:50 pm Instrument : PEST 20
Sample : il11pest,42e,,pp 11397 L0.Quant Date : 12/18/2023 11:34 am

Compound #27: Decachlorobiphenyl





Original Peak Response = 720714027 Manual Peak Response = 718503599 M4
M4 = Poor automated baseline construction.

Initial Calibration Verification

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest20\2023\231215ical\
Data File : 20231215i-13.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 15 Dec 2023 07:03 pm
Operator : pest20:ejl
Sample   : cicvpest,42e,,pp 11430 L0.05ICV
Misc   : wg1865714,ical (Sig #1); ical (Sig #2)
ALS Vial : 13   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 18 12:26:19 2023
Quant Method : I:\PEST\Pest20\2023\231215ical\pest20_2023_12_15_ugL_ICAL.m
Quant Title : pest
QLast Update : Mon Dec 18 12:26:23 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
1	i	1-br-2-nb_Pesticides	^	1.000	1.000	0.0	99	0.00
2	s	2,4,5,6-Tetrachloro-m-xylen		1.132	1.051	7.2	104	0.00
3		Hexachlorobenzene	*	50.000	51.323	-2.6	99	0.00
4		alpha-BHC		1.400	1.338	4.4	100	0.00
5		gamma-BHC (lindane)		1.298	1.178	9.2	99	0.00
6		beta-BHC	*	50.000	52.187	-4.4	100	0.00
7		delta-BHC	*	50.000	46.741	6.5	96	0.00
8		Heptachlor	*	50.000	50.991	-2.0	100	0.00
9		Aldrin		1.259	1.182	6.1	101	0.00
10		Alachlor		0.191	0.184	3.7	101	0.00
11		Chlorpyrifos	*	50.000	55.191	-10.4	102	0.00
12		Heptachlor Epoxide	*	50.000	50.733	-1.5	99	0.00
13		gamma-Chlordane (trans)		1.107	1.110	-0.3	113	0.00
14		alpha-Chlordane (cis)	*	50.000	50.123	-0.2	98	0.00
15		4,4'-DDE		1.202	1.111	7.6	98	0.00
16		Endosulfan I	*	50.000	50.241	-0.5	99	0.00
17		Dieldrin		1.151	1.130	1.8	107	0.00
18		Endrin		1.119	1.010	9.7	98	0.00
19		4,4'-DDD		0.901	0.883	2.0	104	0.00
20		Endosulfan II		1.020	0.929	8.9	101	0.00
21		4,4'-DDT		0.888	0.818	7.9	100	0.00
22		Endrin Aldehyde	*	50.000	46.781	6.4	91	0.00
23		Methoxychlor	*	50.000	56.623	-13.2	102	0.00
24		Mirex	*	50.000	55.023	-10.0	101	0.00
25		Endosulfan Sulfate		0.990	0.864	12.7	101	0.00
26		Endrin Ketone		1.046	0.987	5.6	105	0.00
27	s	Decachlorobiphenyl	*	50.000	53.969	-7.9	99	0.00

Signal #2

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest20\2023\231215ical\
Data File : 20231215i-13.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 15 Dec 2023 07:03 pm
Operator : pest20:ejl
Sample   : cicvpest,42e,,pp 11430 L0.05ICV
Misc   : wg1865714,ical (Sig #1); ical (Sig #2)
ALS Vial : 13   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 18 12:26:19 2023
Quant Method : I:\PEST\Pest20\2023\231215ical\pest20_2023_12_15_ugL_ICAL.m
Quant Title : pest
QLast Update : Mon Dec 18 12:26:23 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
1	i	1-br-2-nb_Pesticides	^	1.000	1.000	0.0	100	0.00
2	s	2,4,5,6-Tetrachloro-m-xyl		1.221	1.157	5.2	105	0.00
3		Hexachlorobenzene	*	50.000	52.558	-5.1	100	0.00
4		alpha-BHC		1.460	1.403	3.9	100	0.00
5		gamma-BHC (lindane)		1.359	1.244	8.5	99	0.00
6		beta-BHC	*	50.000	51.860	-3.7	99	0.00
7		delta-BHC		1.352	1.234	8.7	96	0.00
8		Heptachlor		1.192	1.081	9.3	101	0.00
9		Aldrin		1.257	1.190	5.3	101	0.00
10		Alachlor		0.182	0.176	3.3	102	0.00
11		Chlorpyrifos		0.627	0.567	9.6	103	0.00
12		Heptachlor Epoxide	*	50.000	50.129	-0.3	98	0.00
13		gamma-Chlordane (trans)		1.083	1.117	-3.1	114	0.00
14		alpha-Chlordane (cis)	*	50.000	50.590	-1.2	99	0.00
15		4,4'-DDE		1.188	1.112	6.4	98	0.00
16		Endosulfan I		1.136	1.030	9.3	99	0.00
17		Dieldrin		1.148	1.145	0.3	107	0.00
18		Endrin		1.141	1.047	8.2	98	0.00
19		4,4'-DDD		0.915	0.911	0.4	106	0.00
20		Endosulfan II		1.028	0.958	6.8	102	0.00
21		4,4'-DDT		0.924	0.855	7.5	100	0.00
22		Endrin Aldehyde	*	50.000	46.393	7.2	90	0.00
23		Methoxychlor	*	50.000	56.347	-12.7	103	0.00
24		Mirex	*	50.000	55.255	-10.5	103	0.00
25		Endosulfan Sulfate		0.987	0.898	9.0	103	0.00
26		Endrin Ketone		1.066	1.029	3.5	106	0.00
27	s	Decachlorobiphenyl	*	50.000	54.658	-9.3	99	0.00

Evaluate Continuing Calibration Report - Not Founds

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest20\2023\231215ical\
Data File : 20231215i-13.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 15 Dec 2023 07:03 pm
Operator : pest20:ejl
Sample   : cicvpest,42e,,pp 11430 L0.05ICV
Misc   : wg1865714,ical (Sig #1); ical (Sig #2)
ALS Vial : 13   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 18 12:26:19 2023
Quant Method : I:\PEST\Pest20\2023\231215ical\pest20_2023_12_15_ugL_ICAL.m
Quant Title : pest
QLast Update : Mon Dec 18 12:26:23 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
28	i	1-br-2-nb_Chlordane	^	1.000	1.000	0.0	0	-1.83#
29	l1	chlordane-1	*	0.039	0.000	100.0#	0#	-3.22#
30	l1	chlordane-3	*	0.046	0.000	100.0#	0#	-3.68#
31	l1	chlordane-4	*	0.149	0.000	100.0#	0#	-4.28#
32	l1	chlordane-5	*	0.231	0.000	100.0#	0#	-4.42#
33	i	1-br-2-nb_Toxaphene	^	1.000	1.000	0.0	0	-1.83#
34	l2	toxaphene-1	*	0.038	0.000	100.0#	0#	-5.32#
35	l2	toxaphene-2	*	0.025	0.000	100.0#	0#	-5.86#
36	l2	toxaphene-4	*	0.022	0.000	100.0#	0#	-5.95#
37	l2	toxaphene-5	*	0.035	0.000	100.0#	0#	-6.04#

Signal #2

28	i	1-br-2-nb_Chlordane	^	1.000	1.000	0.0	0	-1.99#
29	l1	chlordane-1	*	0.040	0.000	100.0#	0#	-3.71#
30	l1	chlordane-3	*	0.045	0.000	100.0#	0#	-4.37#
31	l1	chlordane-4	*	0.136	0.000	100.0#	0#	-5.09#
32	l1	chlordane-5	*	0.113	0.000	100.0#	0#	-5.25#
33	i	1-br-2-nb_Toxaphene	^	1.000	1.000	0.0	0	-1.99#
34	l2	toxaphene-1	*	0.020	0.000	100.0#	0#	-6.02#
35	l2	toxaphene-2	*	0.031	0.000	100.0#	0#	-6.05#
36	l2	toxaphene-4	*	0.035	0.000	100.0#	0#	-6.36#
37	l2	toxaphene-5	*	0.033	0.000	100.0#	0#	-6.76#

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0
(^) = ISTD area calculated using ICAL average

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest20\2023\231215ical\
Data File : 20231215i-13.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Dec 2023 07:03 pm
Operator : pest20:ejl
Sample : cicvpest,42e,,pp 11430 L0.05ICV
Misc : wg1865714,ical (Sig #1); ical (Sig #2)
ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 18 12:26:19 2023
Quant Method : I:\PEST\Pest20\2023\231215ical\pest20_2023_12_15_ugL_ICAL.m
Quant Title : pest
QLast Update : Mon Dec 18 12:26:23 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	1.828	1.992	46557082	44759065	25.000	25.000
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	2.285	2.601	97868332	103.6E6	46.412	47.390
	Spiked Amount 50.000	Range 30 - 150		Recovery =		92.82%	94.78%
27) s	Decachlorobi	7.153	7.870	98196320	87660961	53.969M4	54.658
	Spiked Amount 50.000	Range 30 - 150		Recovery =		107.94%	109.32%
	Target Compounds						
3)	Hexachlorobe	2.543	2.979	103.1E6	103.4E6	51.323	52.558M3
4)	alpha-BHC	2.663	3.093	124.6E6	125.6E6	47.792	48.074
5)	gamma-BHC (l	2.898	3.418	109.7E6	111.4E6	45.366	45.755
6)	beta-BHC	2.966	3.494	52691350	54454333	52.187	51.860
7)	delta-BHC	3.110	3.790	108.5E6	110.4E6	46.741	45.629
8)	Heptachlor	3.289	3.859	100.6E6	96779628	50.991	45.351
9)	Aldrin	3.556	4.208	110.1E6	106.6E6	46.934	47.351
10)	Alachlor	3.700	4.084	17140882	15787905	48.072	48.527
11)	Chlorpyrifos	3.799	4.466	45948983	50796829	55.191	45.249
12)	Heptachlor E	4.151	4.870	97310930	97713109	50.733	50.129
13)	gamma-Chlord	4.283	5.086	103.4E6	100.0E6	50.179	51.558
14)	alpha-Chlord	4.427	5.245	103.2E6	98797749	50.123	50.590
15)	4,4'-DDE	4.533	5.428	103.4E6	99574985	46.214	46.803
16)	Endosulfan I	4.571	5.303	93429254	92196367	50.241	45.316M4
17)	Dieldrin	4.847	5.581	105.2E6	102.5E6	49.103	49.874
18)	Endrin	5.098	5.869	94090069	93735988	45.150	45.871M4
19)	4,4'-DDD	5.205	5.981	82250777	81551263	49.015	49.767M4
20)	Endosulfan I	5.332	6.061	86477732	85741701	45.526M3	46.578M4
21)	4,4'-DDT	5.489	6.250	76165486	76494230	46.040	46.232M3
22)	Endrin Aldeh	5.742	6.350	66577122	65534398	46.781	46.393M4

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest20\2023\231215ical\
Data File : 20231215i-13.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Dec 2023 07:03 pm
Operator : pest20:ejl
Sample : cicvpest,42e,,pp 11430 L0.05ICV
Misc : wg1865714,ical (Sig #1); ical (Sig #2)
ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 18 12:26:19 2023
Quant Method : I:\PEST\Pest20\2023\231215ical\pest20_2023_12_15_ugL_ICAL.m
Quant Title : pest
QLast Update : Mon Dec 18 12:26:23 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
23)	Methoxychlor	5.966	6.803	44057376	44388619	56.623	56.347
24)	Mirex	6.025	6.955	76540470	73531245	55.023M4	55.255M4
25)	Endosulfan S	6.129	6.575	80469523	80431139	43.627	45.525
26)	Endrin Keton	6.355	6.987	91902933	92146229	47.190M3	48.278M4
29) l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

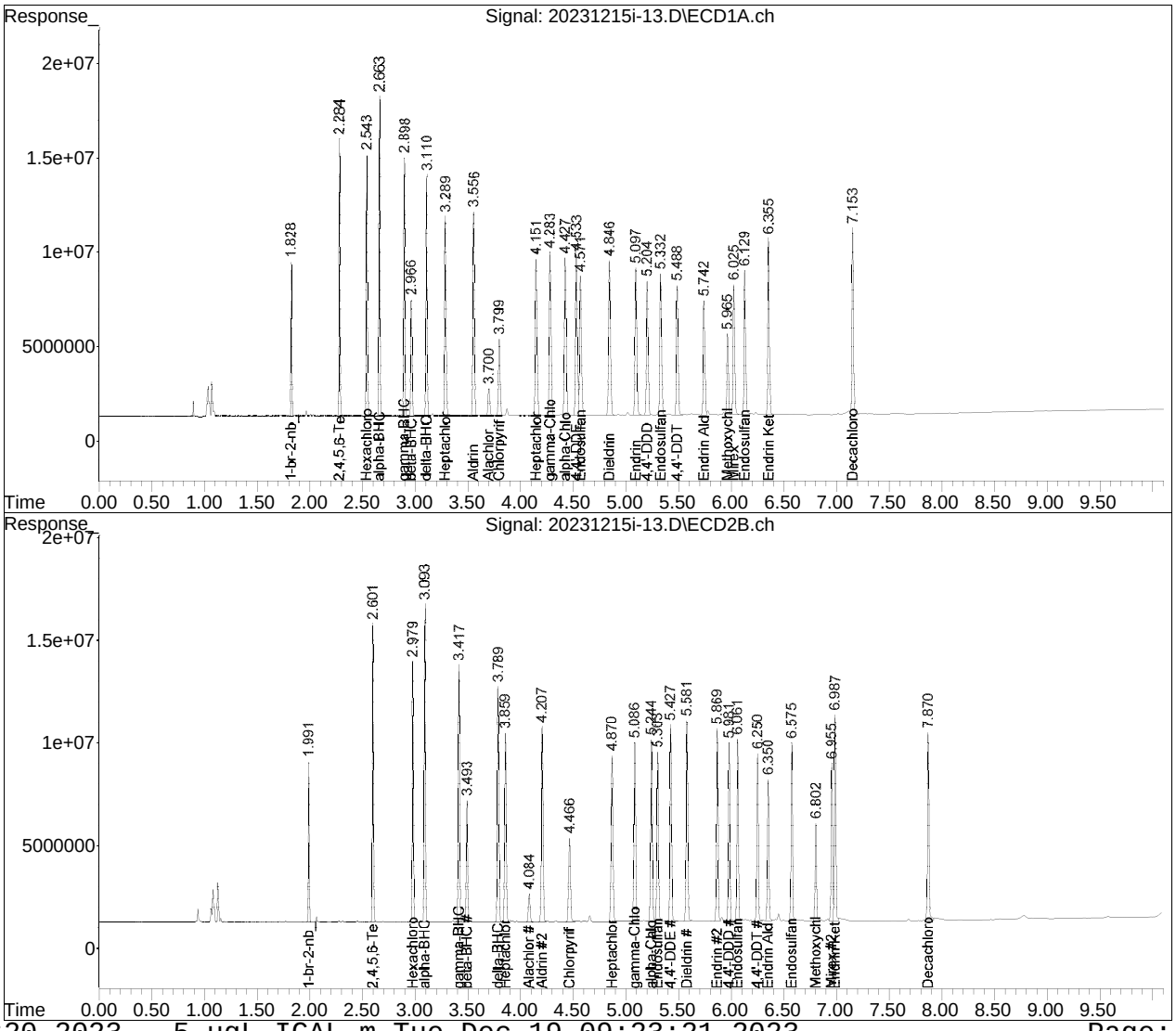
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest20\2023\231215ical\
Data File : 20231215i-13.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Dec 2023 07:03 pm
Operator : pest20:ejl
Sample : cicvpest,42e,,pp 11430 L0.05ICV
Misc : wg1865714,ical (Sig #1); ical (Sig #2)
ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 18 12:26:19 2023
Quant Method : I:\PEST\Pest20\2023\231215ical\pest20_2023_12_15_ugL_ICAL.m
Quant Title : pest
QLast Update : Mon Dec 18 12:26:23 2023
Response via : Initial Calibration
Integrator: ChemStation

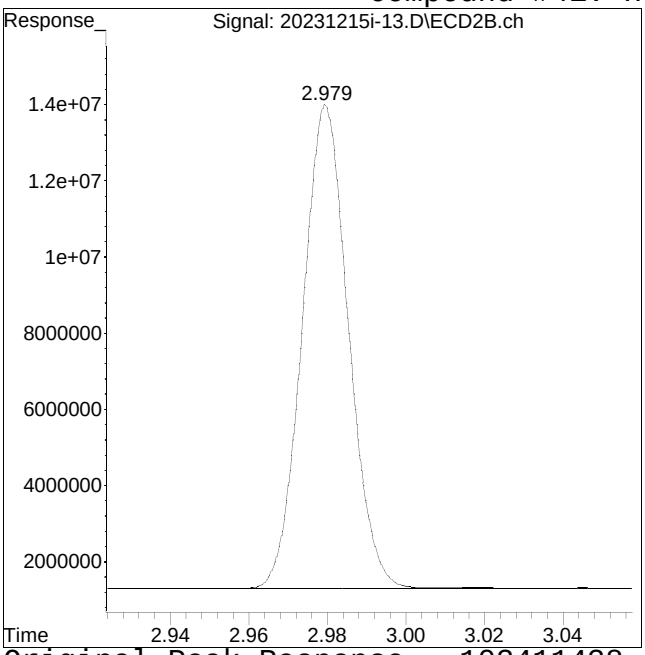
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

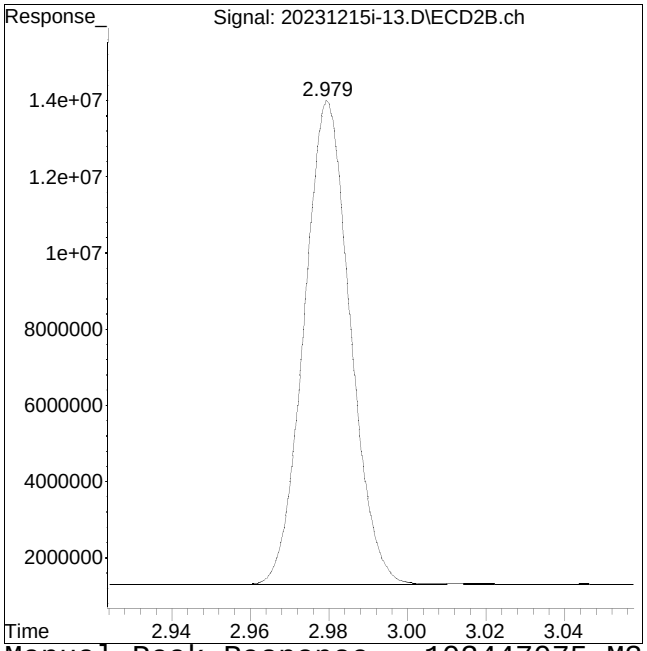


Manual Integration Report

Data Path : I:\PEST\Pest20\2023\231215QMethod : pest20_2023_12_15_ugL_IC
Data File : 20231215i-13.D Operator : pest20:ejl
Date Inj'd : 12/15/2023 7:03 pm Instrument : PEST 20
Sample : cicvpest,42e,,pp 11430 L0.Quant Date : 12/18/2023 12:26 pm

Compound #41: Hexachlorobenzene #2



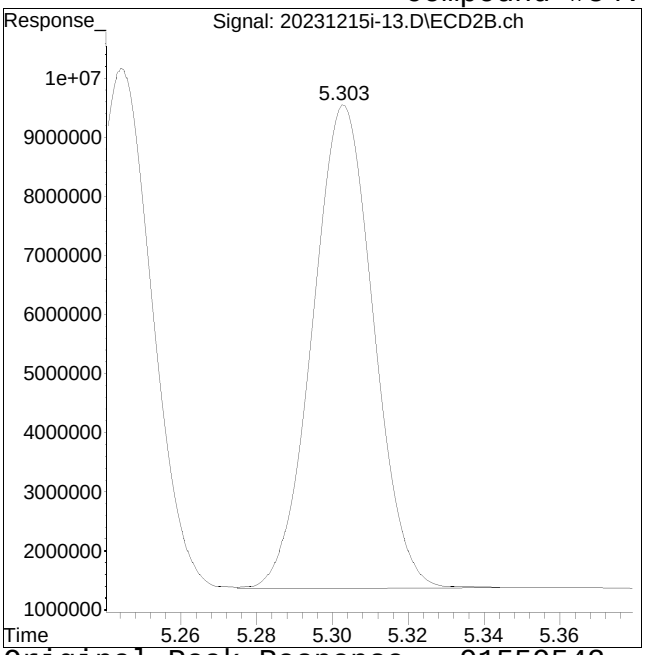


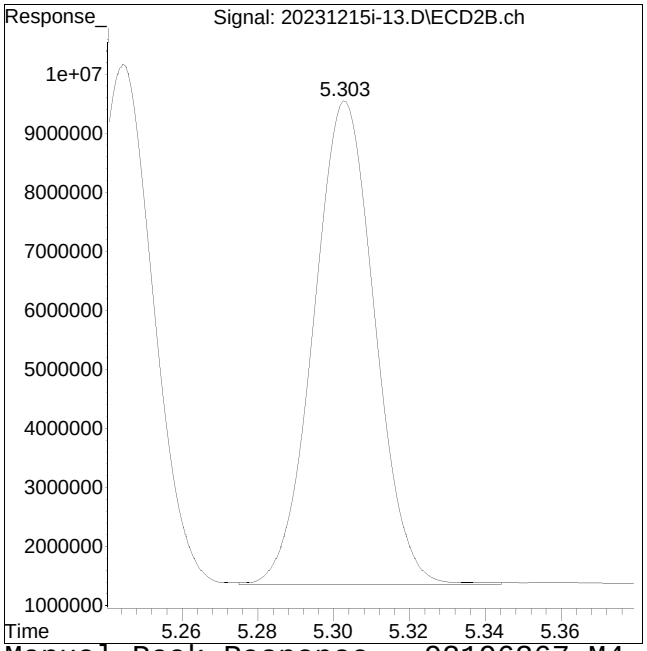
Original Peak Response = 103411438 Manual Peak Response = 103447075 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest20\2023\231215QMethod : pest20_2023_12_15_ugL_IC
Data File : 20231215i-13.D Operator : pest20:ejl
Date Inj'd : 12/15/2023 7:03 pm Instrument : PEST 20
Sample : cicvpest,42e,,pp 11430 L0.Quant Date : 12/18/2023 12:26 pm

Compound #54: Endosulfan I #2



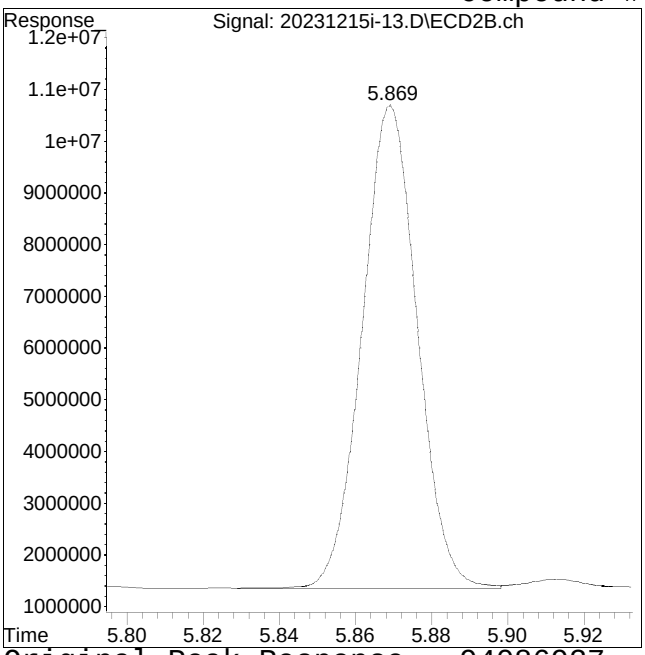


Original Peak Response = 91559542 Manual Peak Response = 92196367 M4
M4 = Poor automated baseline construction.

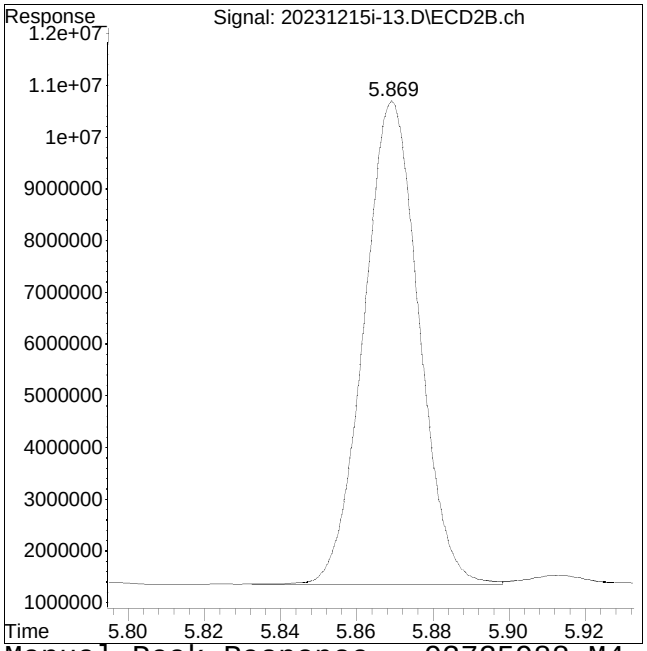
Manual Integration Report

Data Path : I:\PEST\Pest20\2023\231215QMethod : pest20_2023_12_15_ugL_IC
Data File : 20231215i-13.D Operator : pest20:ejl
Date Inj'd : 12/15/2023 7:03 pm Instrument : PEST 20
Sample : cicvpest,42e,,pp 11430 L0.Quant Date : 12/18/2023 12:26 pm

Compound #56: Endrin #2



Original Peak Response = 94086937



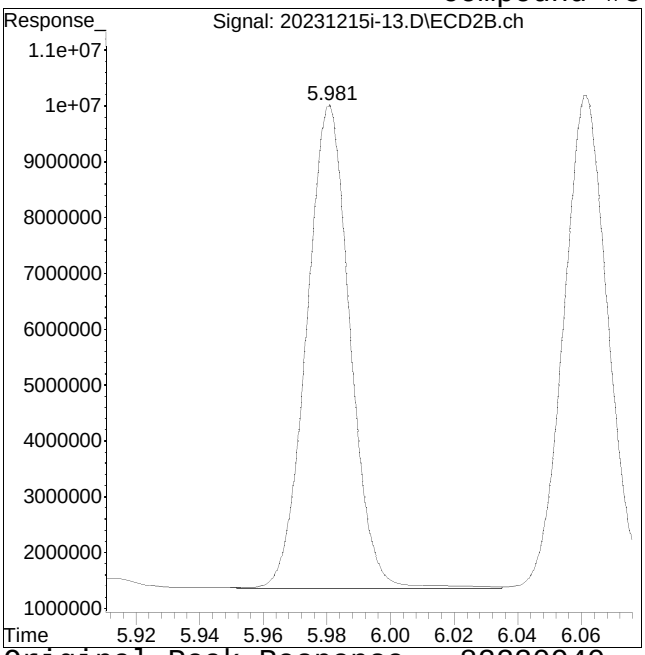
Manual Peak Response = 93735988 M4

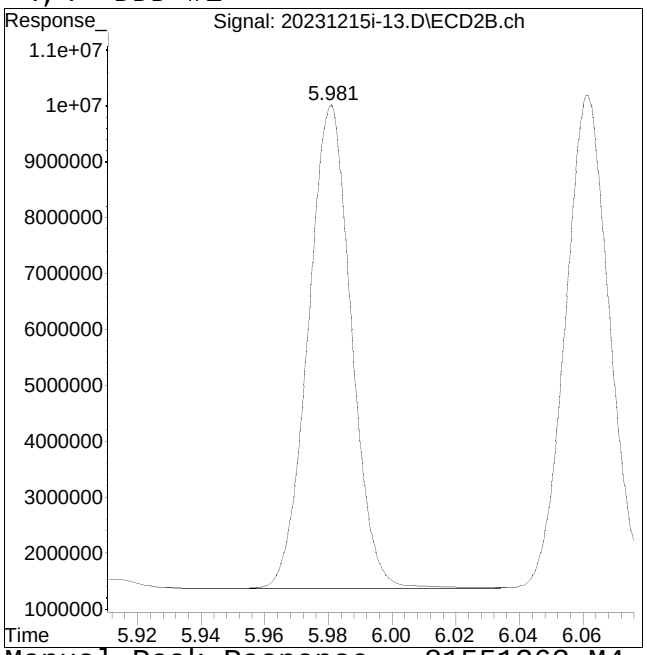
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2023\231215QMethod : pest20_2023_12_15_ugL_IC
Data File : 20231215i-13.D Operator : pest20:ejl
Date Inj'd : 12/15/2023 7:03 pm Instrument : PEST 20
Sample : cicvpest,42e,,pp 11430 L0.Quant Date : 12/18/2023 12:26 pm

Compound #57: 4,4'-DDD #2



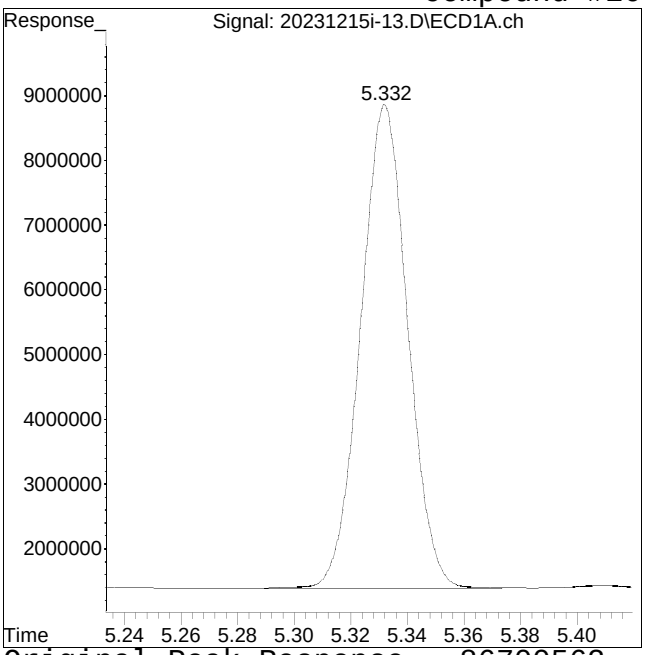


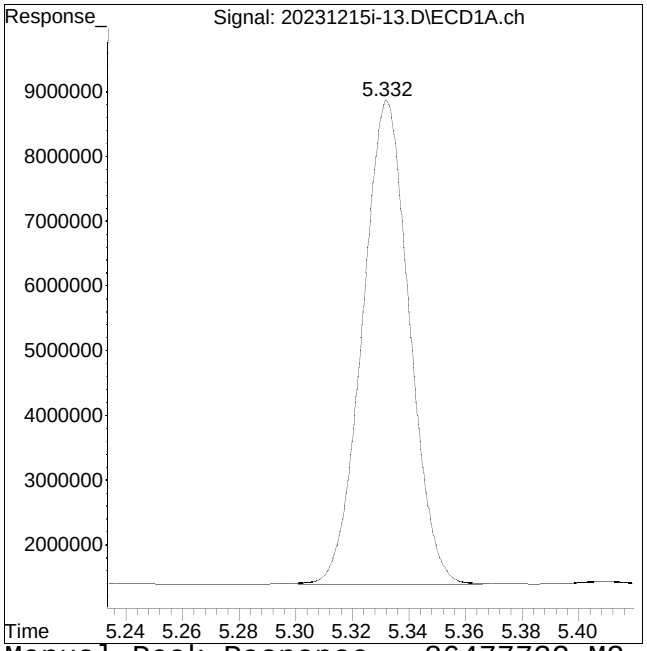
Original Peak Response = 82230940 Manual Peak Response = 81551263 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2023\231215QMethod : pest20_2023_12_15_ugL_IC
Data File : 20231215i-13.D Operator : pest20:ejl
Date Inj'd : 12/15/2023 7:03 pm Instrument : PEST 20
Sample : cicvpest,42e,,pp 11430 L0.Quant Date : 12/18/2023 12:26 pm

Compound #20: Endosulfan II



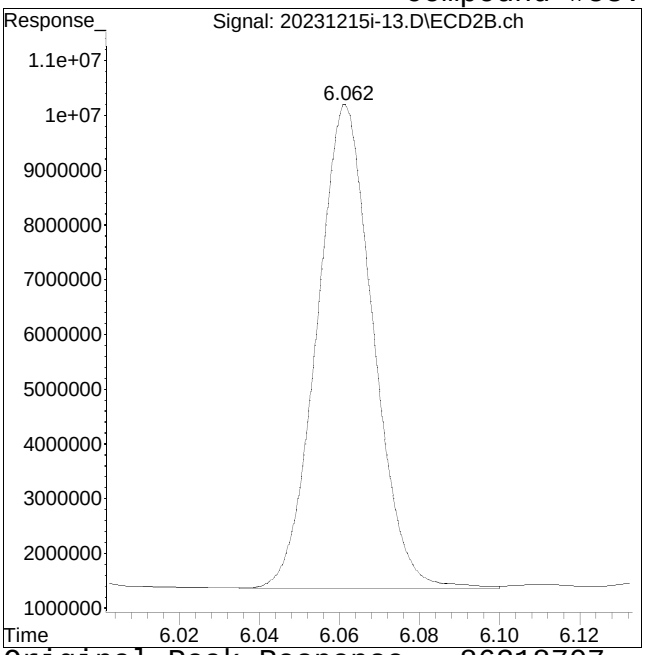


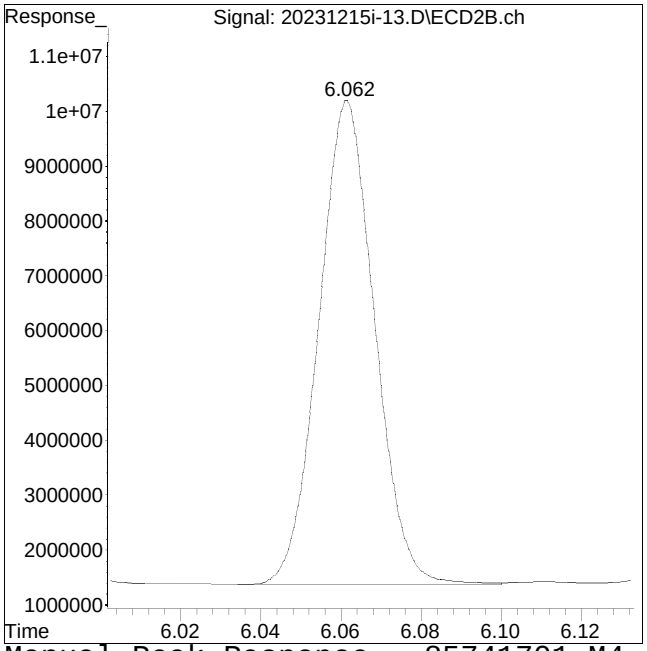
Original Peak Response = 86700562 Manual Peak Response = 86477732 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest20\2023\231215QMethod : pest20_2023_12_15_ugL_IC
Data File : 20231215i-13.D Operator : pest20:ejl
Date Inj'd : 12/15/2023 7:03 pm Instrument : PEST 20
Sample : cicvpest,42e,,pp 11430 L0.Quant Date : 12/18/2023 12:26 pm

Compound #58: Endosulfan II #2



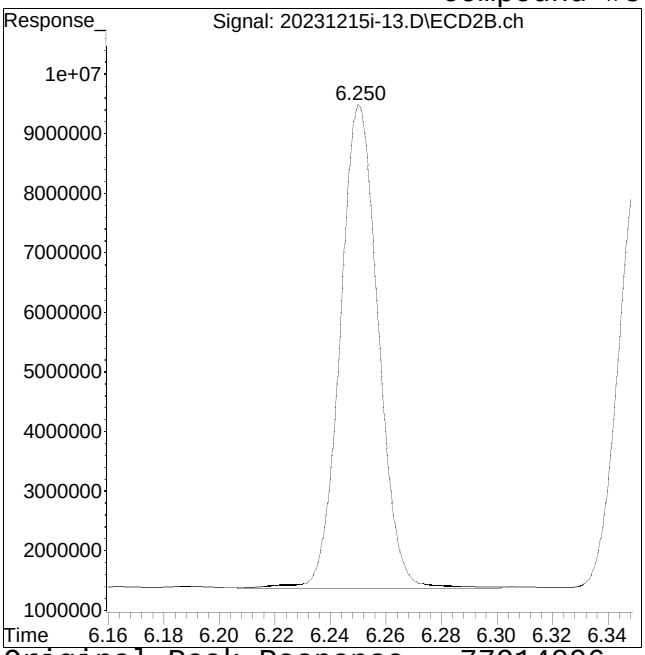


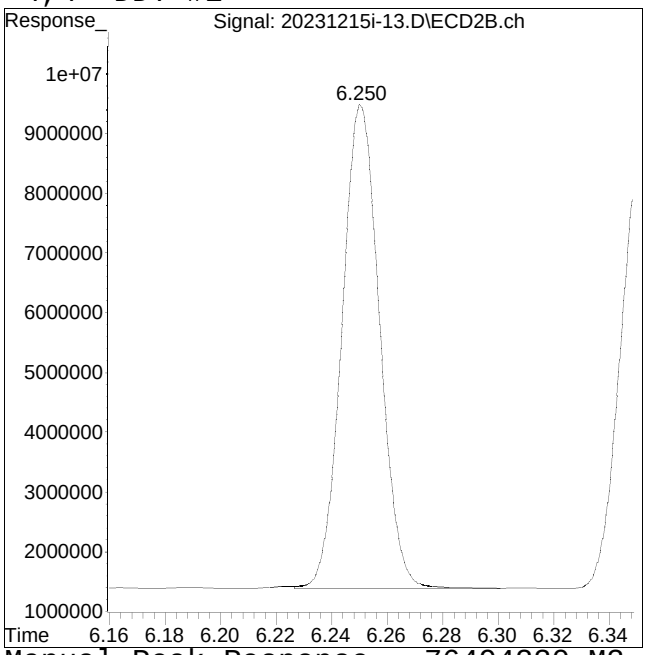
Original Peak Response = 86318707 Manual Peak Response = 85741701 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2023\231215QMethod : pest20_2023_12_15_ugL_IC
Data File : 20231215i-13.D Operator : pest20:ejl
Date Inj'd : 12/15/2023 7:03 pm Instrument : PEST 20
Sample : cicvpest,42e,,pp 11430 L0.Quant Date : 12/18/2023 12:26 pm

Compound #59: 4,4'-DDT #2



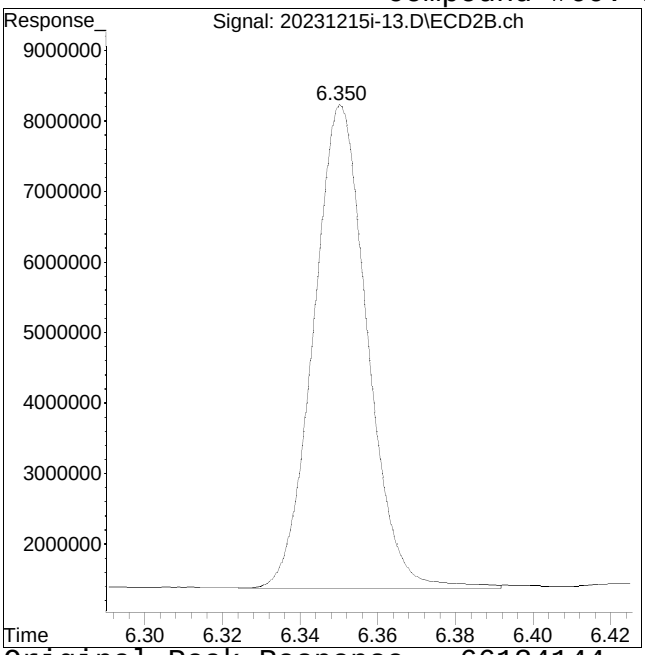


Original Peak Response = 77914096 Manual Peak Response = 76494230 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

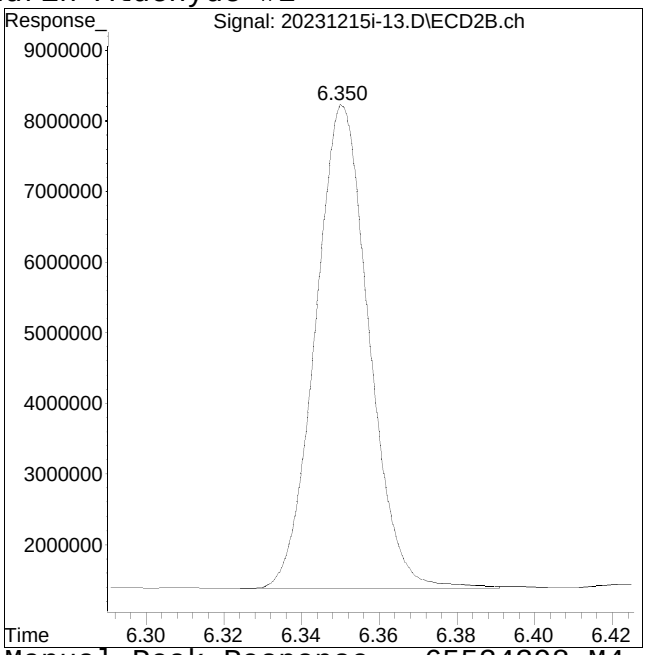
Manual Integration Report

Data Path : I:\PEST\Pest20\2023\231215QMethod : pest20_2023_12_15_ugL_IC
Data File : 20231215i-13.D Operator : pest20:ejl
Date Inj'd : 12/15/2023 7:03 pm Instrument : PEST 20
Sample : cicvpest,42e,,pp 11430 L0.Quant Date : 12/18/2023 12:26 pm

Compound #60: Endrin Aldehyde #2



Original Peak Response = 66134144



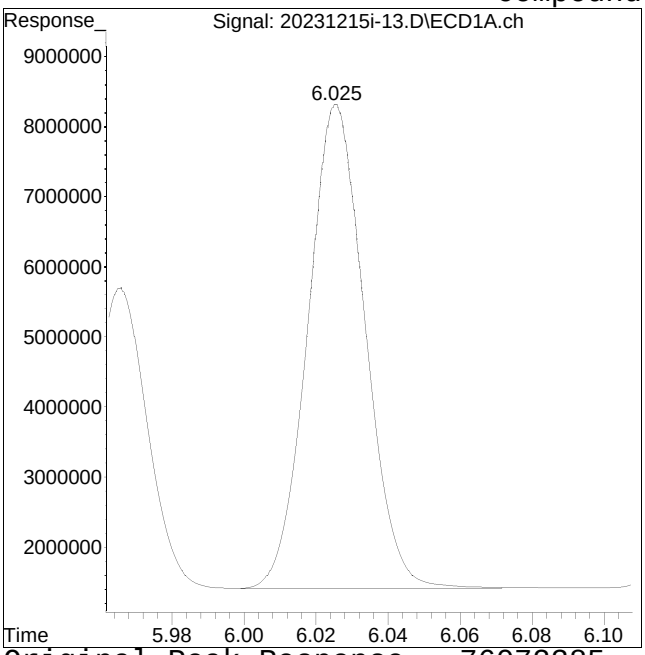
Manual Peak Response = 65534398 M4

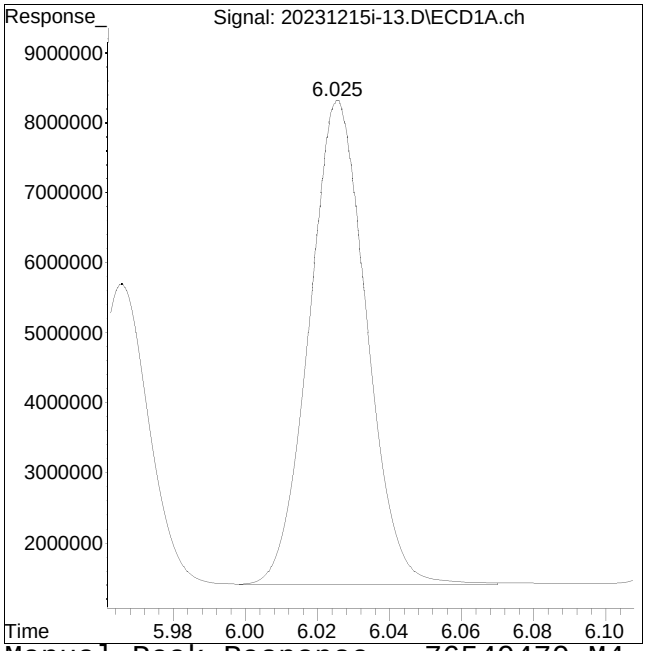
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2023\231215QMethod : pest20_2023_12_15_ugL_IC
Data File : 20231215i-13.D Operator : pest20:ejl
Date Inj'd : 12/15/2023 7:03 pm Instrument : PEST 20
Sample : cicvpest,42e,,pp 11430 L0.Quant Date : 12/18/2023 12:26 pm

Compound #24: Mirex



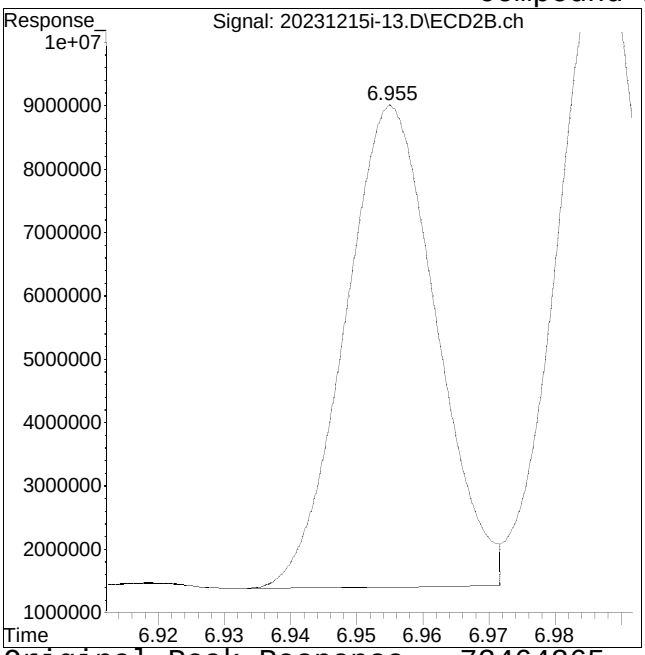


Original Peak Response = 76072385 Manual Peak Response = 76540470 M4
M4 = Poor automated baseline construction.

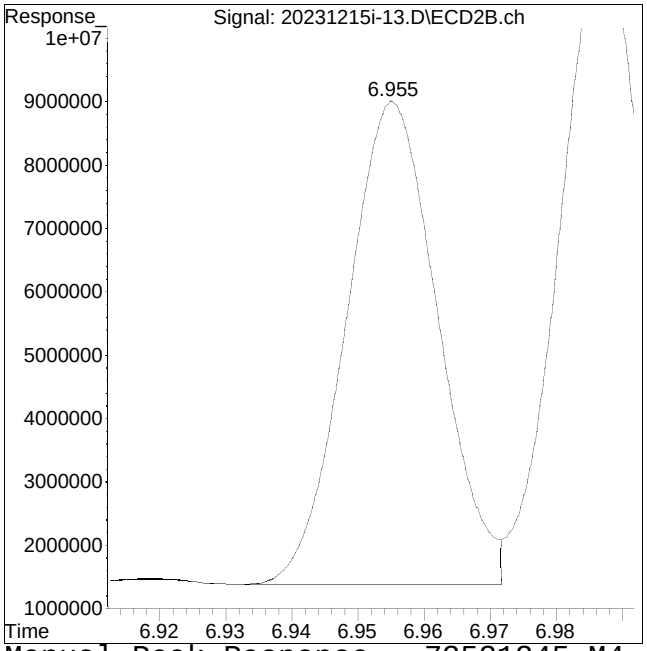
Manual Integration Report

Data Path : I:\PEST\Pest20\2023\231215QMethod : pest20_2023_12_15_ugL_IC
Data File : 20231215i-13.D Operator : pest20:ejl
Date Inj'd : 12/15/2023 7:03 pm Instrument : PEST 20
Sample : cicvpest,42e,,pp 11430 L0.Quant Date : 12/18/2023 12:26 pm

Compound #62: Mirex #2



Original Peak Response = 72464265



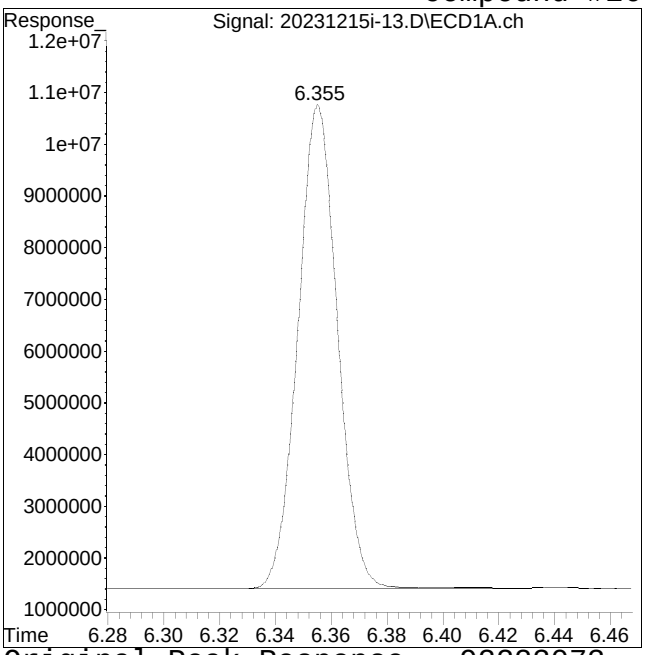
Manual Peak Response = 73531245 M4

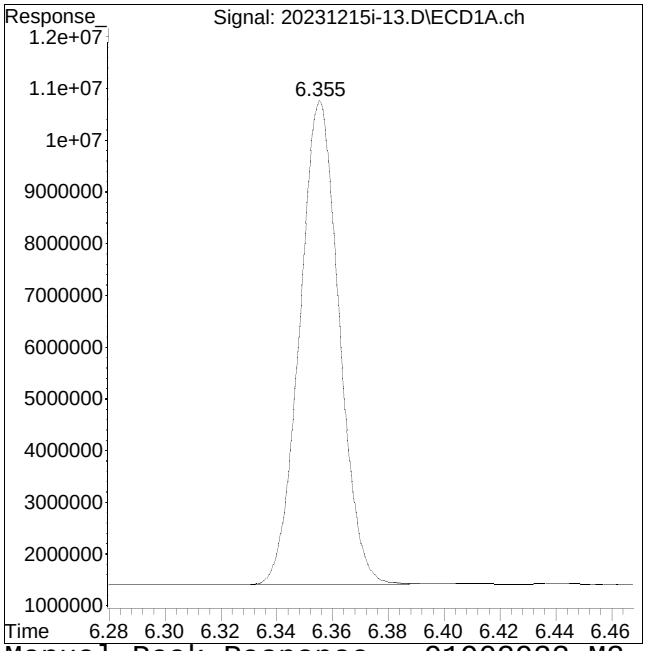
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2023\231215QMethod : pest20_2023_12_15_ugL_IC
Data File : 20231215i-13.D Operator : pest20:ejl
Date Inj'd : 12/15/2023 7:03 pm Instrument : PEST 20
Sample : cicvpest,42e,,pp 11430 L0.Quant Date : 12/18/2023 12:26 pm

Compound #26: Endrin Ketone



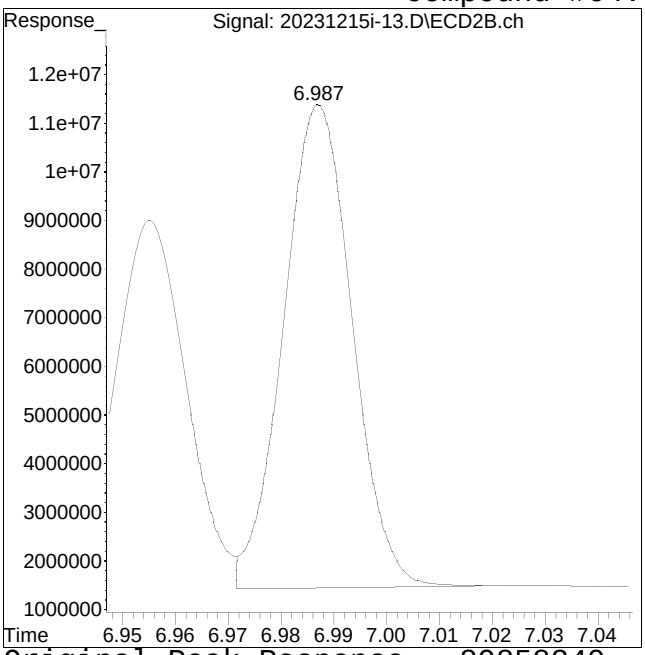


Original Peak Response = 92223073 Manual Peak Response = 91902933 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

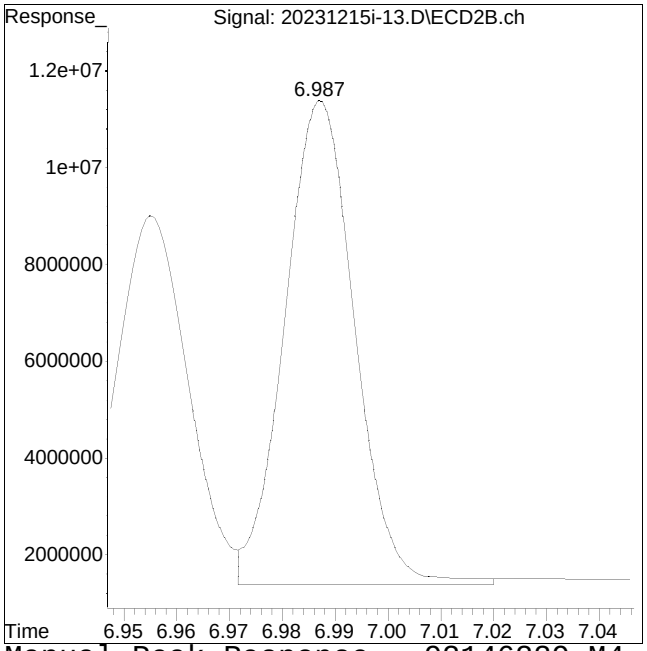
Manual Integration Report

Data Path : I:\PEST\Pest20\2023\231215QMethod : pest20_2023_12_15_ugL_IC
Data File : 20231215i-13.D Operator : pest20:ejl
Date Inj'd : 12/15/2023 7:03 pm Instrument : PEST 20
Sample : cicvpest,42e,,pp 11430 L0.Quant Date : 12/18/2023 12:26 pm

Compound #64: Endrin Ketone #2



Original Peak Response = 89858240



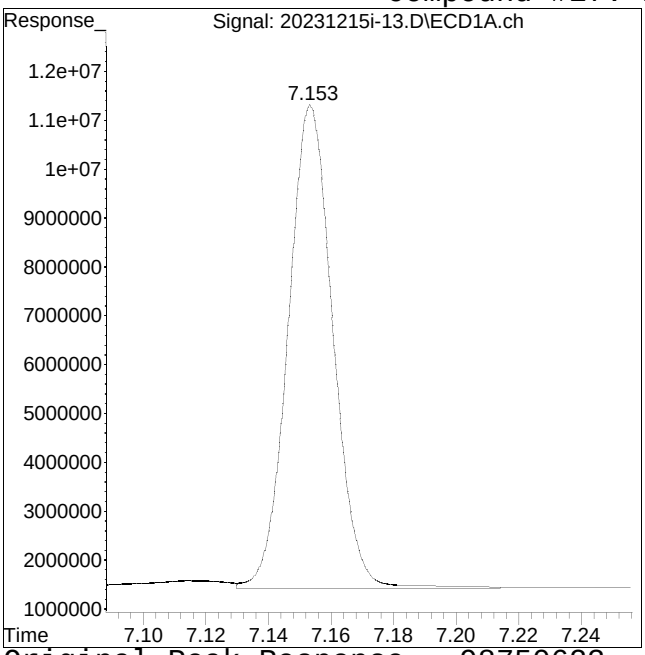
Manual Peak Response = 92146229 M4

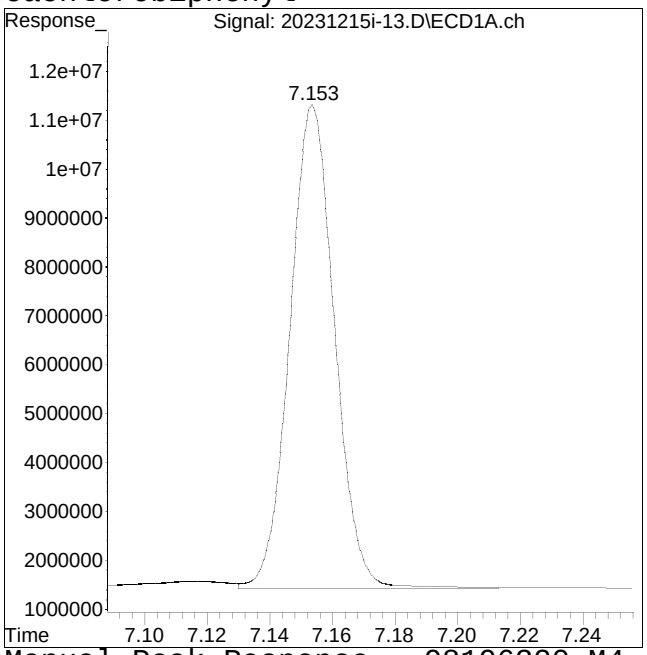
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2023\231215QMethod : pest20_2023_12_15_ugL_IC
Data File : 20231215i-13.D Operator : pest20:ejl
Date Inj'd : 12/15/2023 7:03 pm Instrument : PEST 20
Sample : cicvpest,42e,,pp 11430 L0.Quant Date : 12/18/2023 12:26 pm

Compound #27: Decachlorobiphenyl





Original Peak Response = 98750623 Manual Peak Response = 98196320 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest20\2023\231215ical\
Data File : 20231215i-14.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Dec 2023 07:15 pm
Operator : pest20:ejl
Sample : il3chlor,42e,,pp 11325 L0.01
Misc : wg1865714,ical (Sig #1); ical (Sig #2)
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 18 12:38:50 2023
Quant Method : I:\PEST\Pest20\2023\231215ical\pest20_2023_12_15_ugL_ICAL.m
Quant Title : pest
QLast Update : Mon Dec 18 12:37:08 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	1.828	1.992	47319822	45568348	25.000M4	25.000M4
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D.	N.D.
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
	Target Compounds						
3)	Hexachlorobe	0.000	0.000	0	0	N.D.	N.D.
4)	alpha-BHC	0.000	0.000	0	0	N.D.	N.D.
5)	gamma-BHC (l	0.000	0.000	0	0	N.D.	N.D.
6)	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8)	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9)	Aldrin	0.000	0.000	0	0	N.D.	N.D.
10)	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11)	Chlorpyrifos	0.000	0.000	0	0	N.D.	N.D.
12)	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13)	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14)	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15)	4,4'-DDE	0.000	0.000	0	0	N.D.	N.D.
16)	Endosulfan I	0.000	0.000	0	0	N.D.	N.D.
17)	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18)	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20)	Endosulfan I	0.000	0.000	0	0	N.D.	N.D.
21)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22)	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest20\2023\231215ical\
Data File : 20231215i-14.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Dec 2023 07:15 pm
Operator : pest20:ejl
Sample : il3chlor,42e,,pp 11325 L0.01
Misc : wg1865714,ical (Sig #1); ical (Sig #2)
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 18 12:38:50 2023
Quant Method : I:\PEST\Pest20\2023\231215ical\pest20_2023_12_15_ugL_ICAL.m
Quant Title : pest
QLast Update : Mon Dec 18 12:37:08 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
23)	Methoxychlor	0.000	0.000	0	0	N.D.	N.D.
24)	Mirex	0.000	0.000	0	0	N.D.	N.D.
25)	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26)	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	3.219	3.711	860650	820207	11.811	11.653
30) l1	chlordane-3	3.683	4.375	1024727	951687	12.106	12.028M4
31) l1	chlordane-4	4.283	5.087	3349428	2808905	12.242	11.572M4
32) l1	chlordane-5	4.419	5.246	5230631	2347300	12.363M3	11.691
Sum	chlordane-1			10465437	6928099	NoCal	NoCal D
Average	chlordane-1					12.130	11.736
34) l2	toxaphene-1	0.000	0.000	0	0	N.D.	N.D.
35) l2	toxaphene-2	0.000	0.000	0	0	N.D.	N.D.
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D.	N.D.
Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

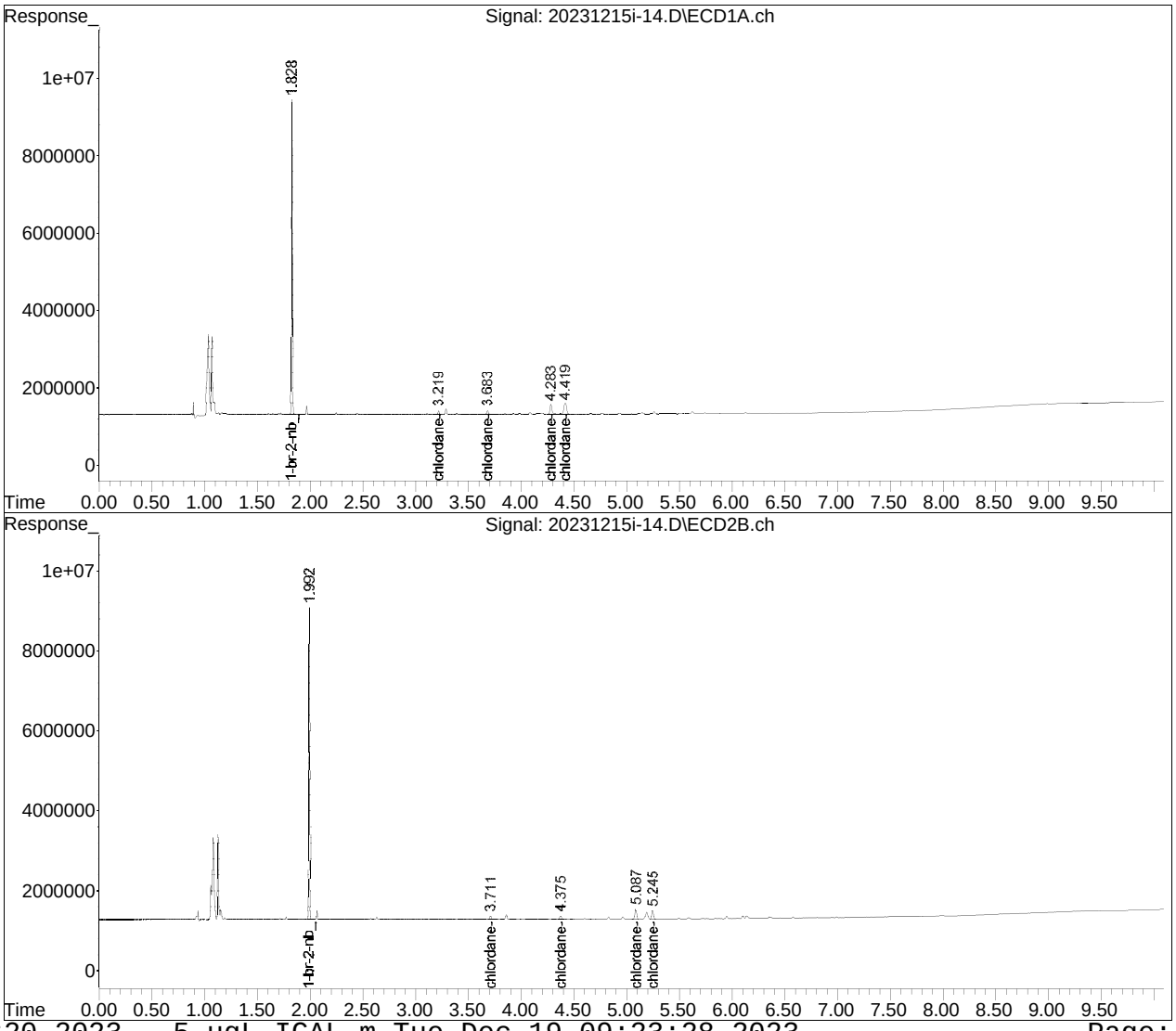
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest20\2023\231215ical\
Data File : 20231215i-14.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Dec 2023 07:15 pm
Operator : pest20:ejl
Sample : il3chlor,42e,,pp 11325 L0.01
Misc : wg1865714,ical (Sig #1); ical (Sig #2)
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 18 12:38:50 2023
Quant Method : I:\PEST\Pest20\2023\231215ical\pest20_2023_12_15_ugL_ICAL.m
Quant Title : pest
QLast Update : Mon Dec 18 12:37:08 2023
Response via : Initial Calibration
Integrator: ChemStation

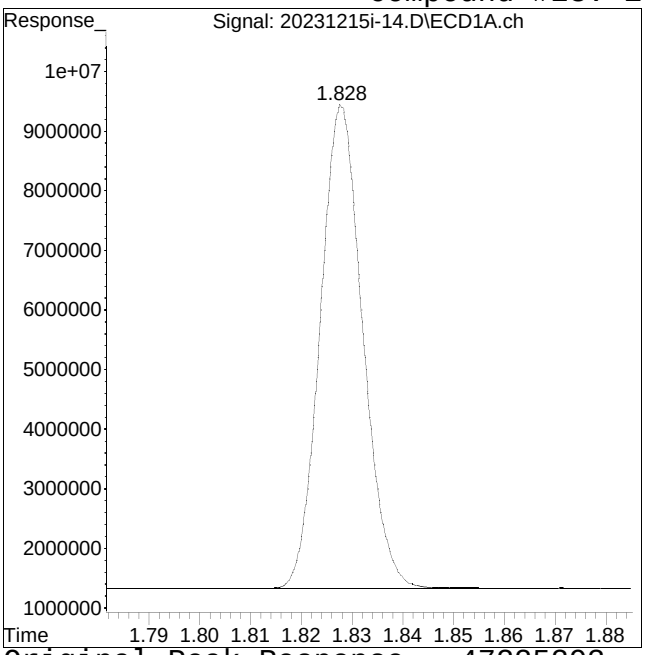
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

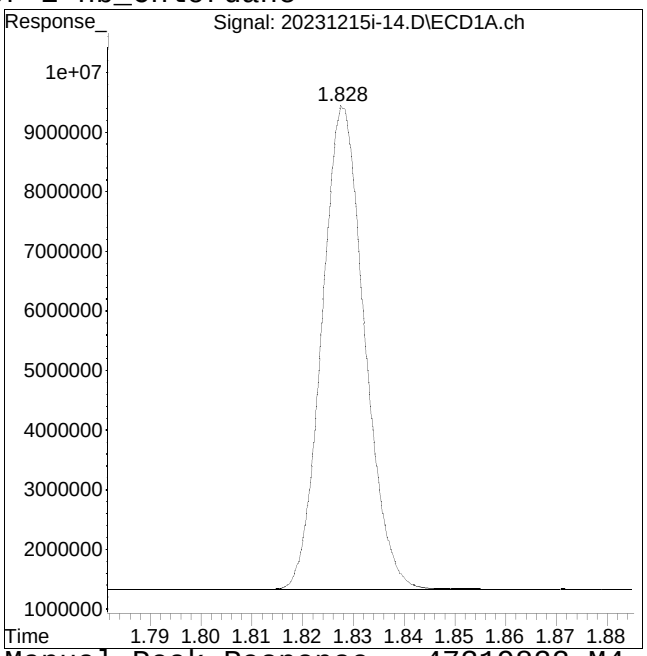


Manual Integration Report

Data Path : I:\PEST\Pest20\2023\231215QMethod : pest20_2023_12_15_ugL_IC
Data File : 20231215i-14.D Operator : pest20:ejl
Date Inj'd : 12/15/2023 7:15 pm Instrument : PEST 20
Sample : il3chlor,42e,,pp 11325 L0.Quant Date : 12/18/2023 12:37 pm

Compound #28: 1-br-2-nb_Chlordane



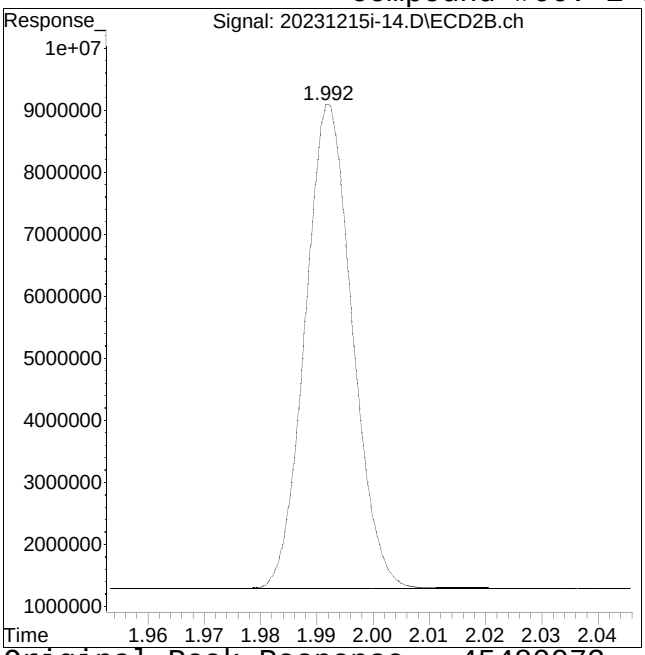


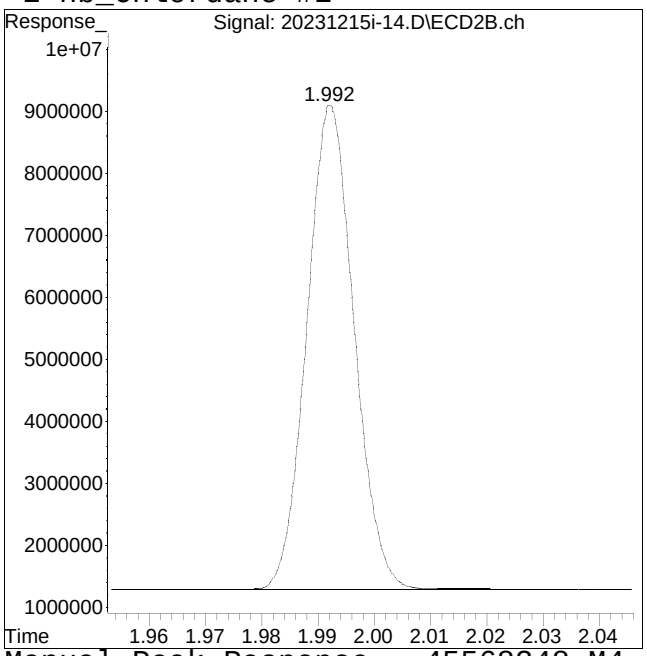
Original Peak Response = 47225293 Manual Peak Response = 47319822 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2023\231215QMethod : pest20_2023_12_15_ugL_IC
Data File : 20231215i-14.D Operator : pest20:ejl
Date Inj'd : 12/15/2023 7:15 pm Instrument : PEST 20
Sample : il3chlor,42e,,pp 11325 L0.Quant Date : 12/18/2023 12:37 pm

Compound #66: 1-br-2-nb_Chlordane #2



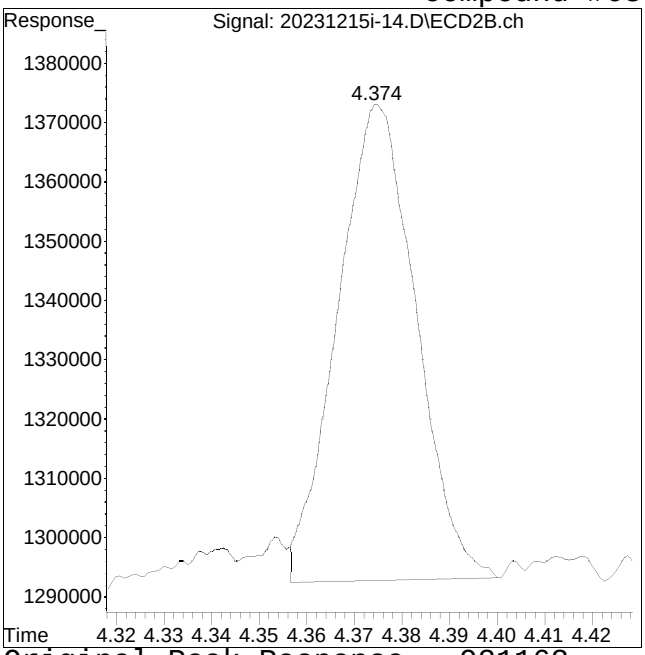


Original Peak Response = 45480073 Manual Peak Response = 45568348 M4
M4 = Poor automated baseline construction.

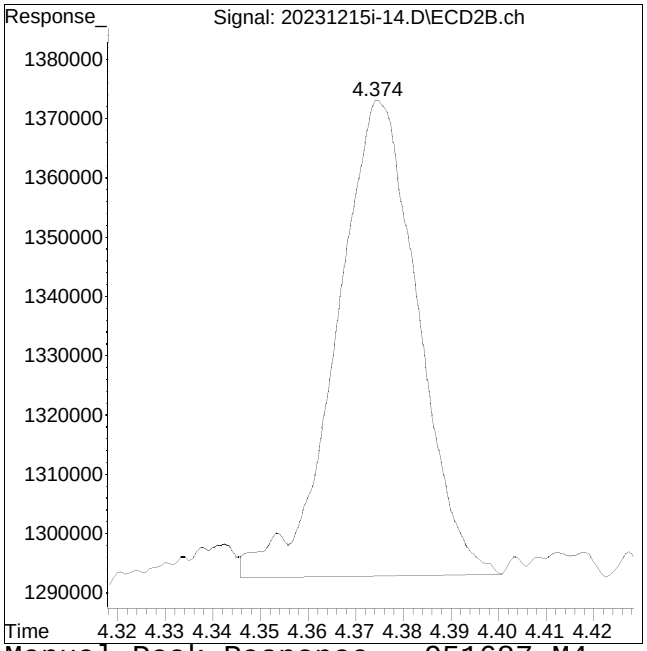
Manual Integration Report

Data Path : I:\PEST\Pest20\2023\231215QMethod : pest20_2023_12_15_ugL_IC
Data File : 20231215i-14.D Operator : pest20:ejl
Date Inj'd : 12/15/2023 7:15 pm Instrument : PEST 20
Sample : il3chlor,42e,,pp 11325 L0.Quant Date : 12/18/2023 12:37 pm

Compound #68: chlordane-3 #2



Original Peak Response = 921162



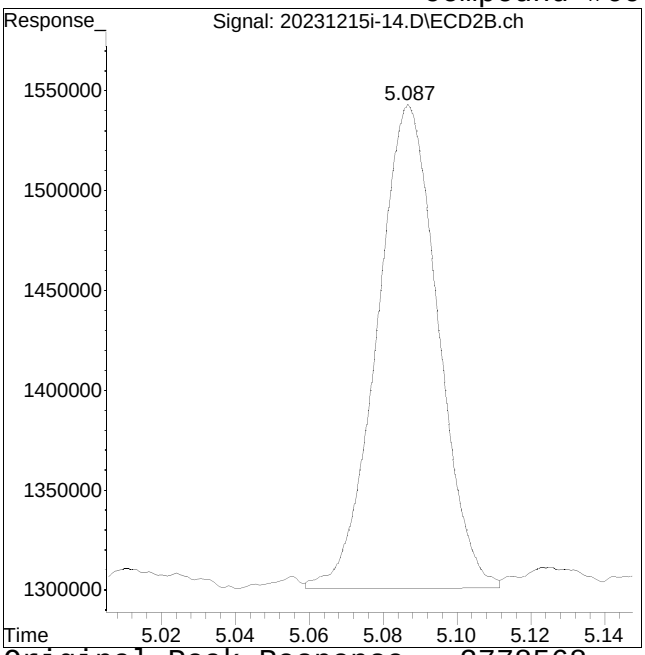
Manual Peak Response = 951687 M4

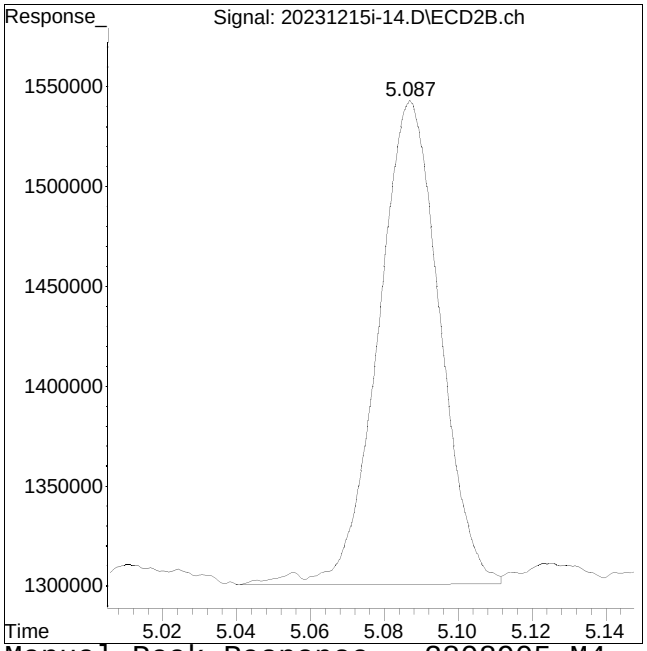
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2023\231215QMethod : pest20_2023_12_15_ugL_IC
Data File : 20231215i-14.D Operator : pest20:ejl
Date Inj'd : 12/15/2023 7:15 pm Instrument : PEST 20
Sample : il3chlor,42e,,pp 11325 L0.Quant Date : 12/18/2023 12:37 pm

Compound #69: chlordane-4 #2



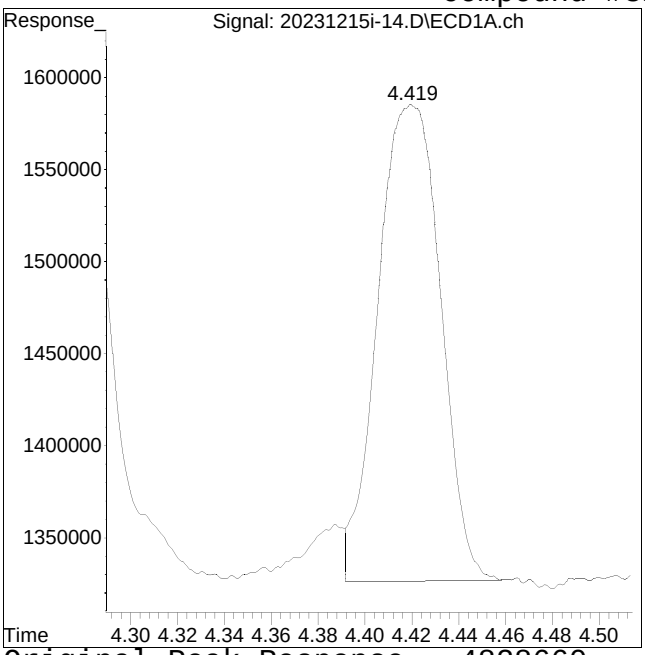


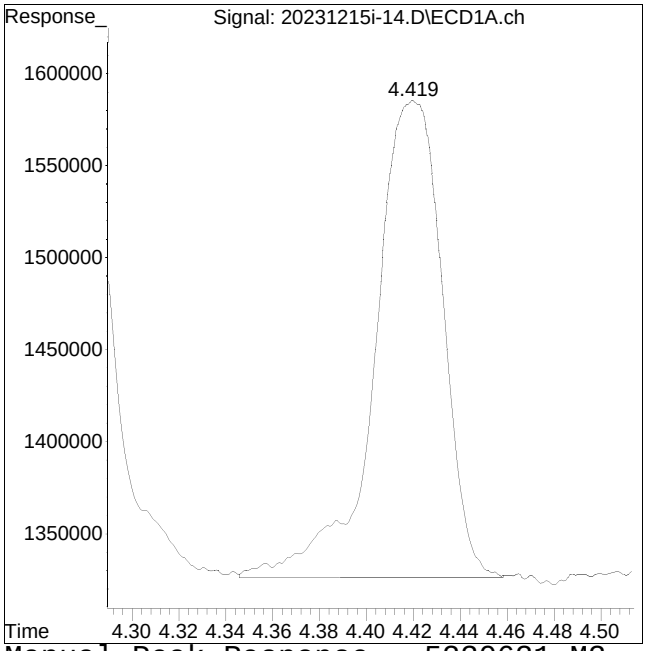
Original Peak Response = 2778568 Manual Peak Response = 2808905 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2023\231215QMethod : pest20_2023_12_15_ugL_IC
Data File : 20231215i-14.D Operator : pest20:ejl
Date Inj'd : 12/15/2023 7:15 pm Instrument : PEST 20
Sample : il3chlor,42e,,pp 11325 L0.Quant Date : 12/18/2023 12:37 pm

Compound #32: chlordane-5





Original Peak Response = 4828660 Manual Peak Response = 5230631 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest20\2023\231215ical\
Data File : 20231215i-15.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Dec 2023 07:28 pm
Operator : pest20:ejl
Sample : il4chlor,42e,,pp 11324 L0.02
Misc : wg1865714,ical (Sig #1); ical (Sig #2)
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 18 12:36:49 2023
Quant Method : I:\PEST\Pest20\2023\231215ical\pest20_2023_12_15_ugL_ICAL.m
Quant Title : pest
QLast Update : Mon Dec 18 12:36:10 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	1.828	1.992	46615383	45041947	25.000	25.000
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D.	N.D.
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
	Target Compounds						
3)	Hexachlorobe	0.000	0.000	0	0	N.D.	N.D.
4)	alpha-BHC	0.000	0.000	0	0	N.D.	N.D.
5)	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6)	beta-BHC	0.000	0.000	0	0	N.D.	N.D.
7)	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8)	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9)	Aldrin	0.000	0.000	0	0	N.D.	N.D.
10)	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11)	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12)	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13)	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14)	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15)	4,4'-DDE	0.000	0.000	0	0	N.D.	N.D.
16)	Endosulfan I	0.000	0.000	0	0	N.D.	N.D.
17)	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18)	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22)	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d
23)	Methoxychlor	0.000	0.000	0	0	N.D.	N.D.

Data Path : I:\PEST\Pest20\2023\231215ical\
Data File : 20231215i-15.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Dec 2023 07:28 pm
Operator : pest20:ejl
Sample : il4chlor,42e,,pp 11324 L0.02
Misc : wg1865714,ical (Sig #1); ical (Sig #2)
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 18 12:36:49 2023
Quant Method : I:\PEST\Pest20\2023\231215ical\pest20_2023_12_15_ugL_ICAL.m
Quant Title : pest
QLast Update : Mon Dec 18 12:36:10 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
24)	Mirex	0.000	0.000	0	0	N.D.	N.D.
25)	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26)	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	3.220	3.710	1733348	1662472	25.192	24.865
30) l1	chlordane-3	3.684	4.373	2179487	1989038	27.846	26.894M3
31) l1	chlordane-4	4.284	5.086	6640085	5747046	25.832	24.940M3
32) l1	chlordane-5	4.419	5.246	10284364	4790088	25.885M3	25.178
Sum	chlordane-1			20837284	14188644	NoCal	NoCal D
Average	chlordane-1					26.189	25.469
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D.	N.D.
Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

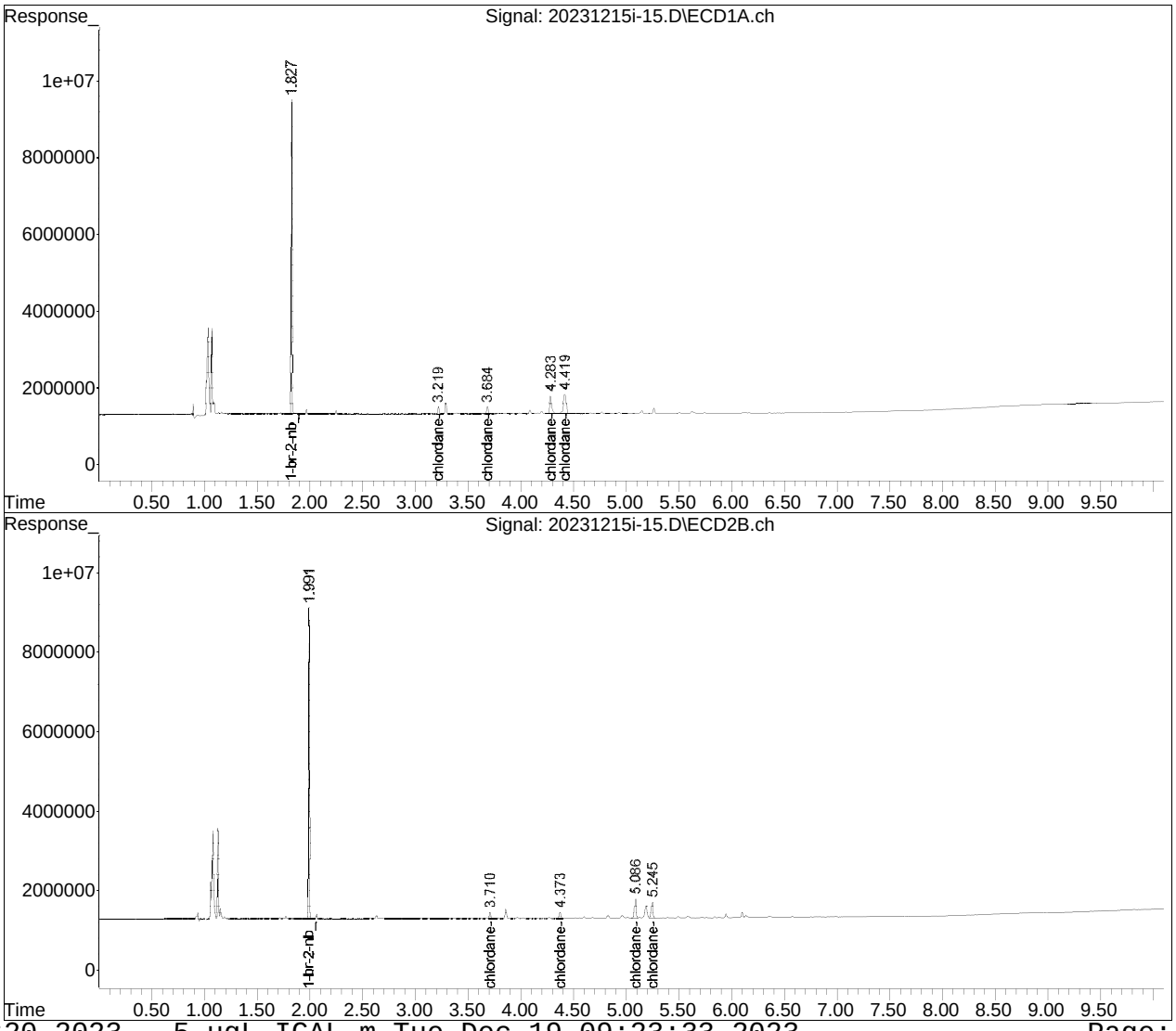
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest20\2023\231215ical\
Data File : 20231215i-15.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Dec 2023 07:28 pm
Operator : pest20:ejl
Sample : il4chlor,42e,,pp 11324 L0.02
Misc : wg1865714,ical (Sig #1); ical (Sig #2)
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 18 12:36:49 2023
Quant Method : I:\PEST\Pest20\2023\231215ical\pest20_2023_12_15_ugL_ICAL.m
Quant Title : pest
QLast Update : Mon Dec 18 12:36:10 2023
Response via : Initial Calibration
Integrator: ChemStation

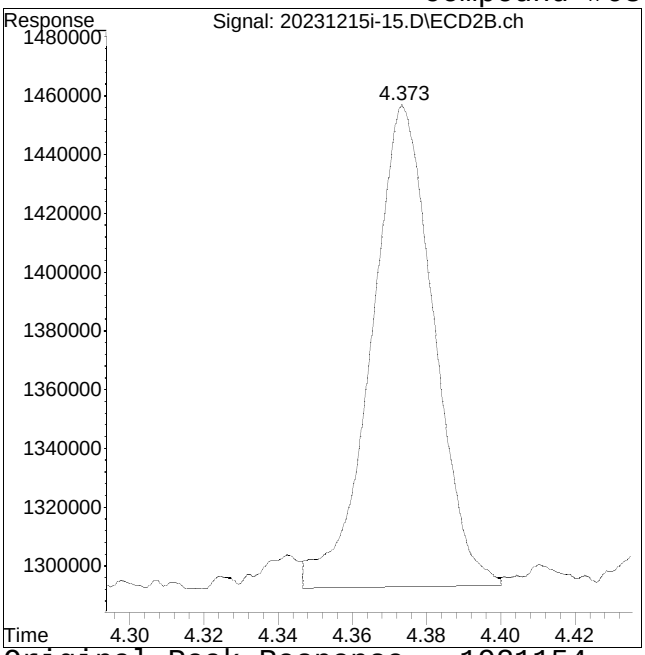
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

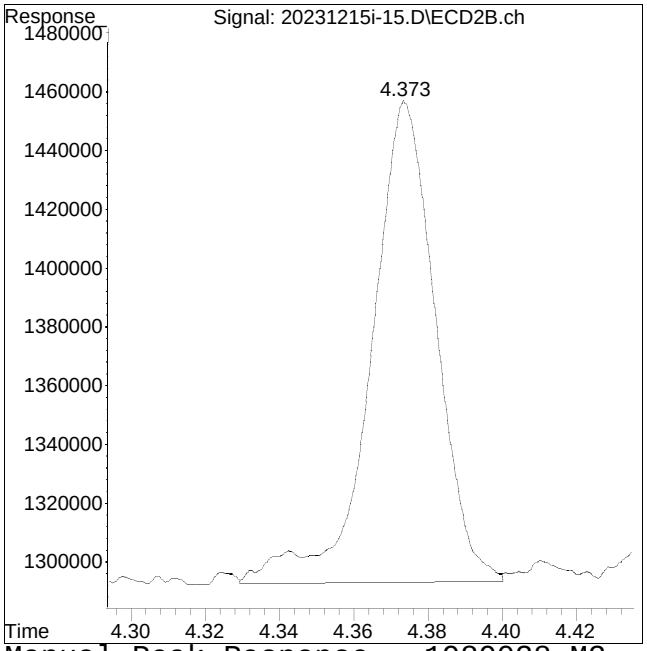


Manual Integration Report

Data Path : I:\PEST\Pest20\2023\231215QMethod : pest20_2023_12_15_ugL_IC
Data File : 20231215i-15.D Operator : pest20:ejl
Date Inj'd : 12/15/2023 7:28 pm Instrument : PEST 20
Sample : il4chlor,42e,,pp 11324 L0.Quant Date : 12/18/2023 12:36 pm

Compound #68: chlordane-3 #2



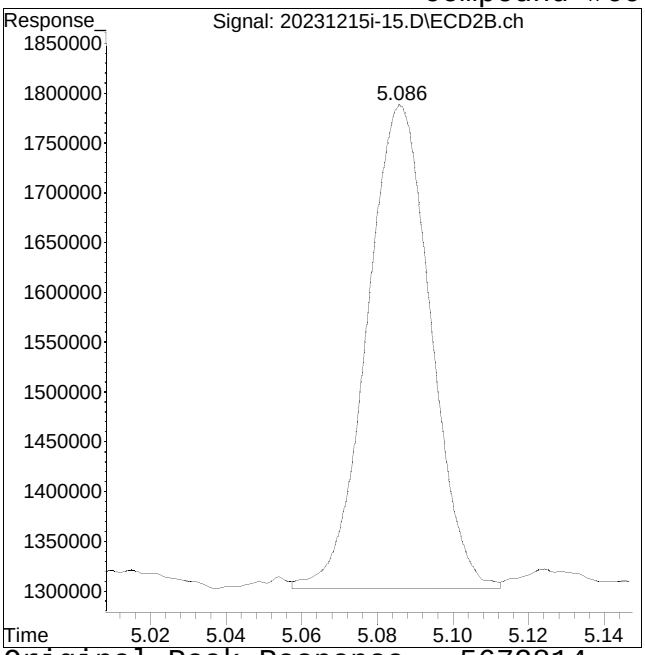


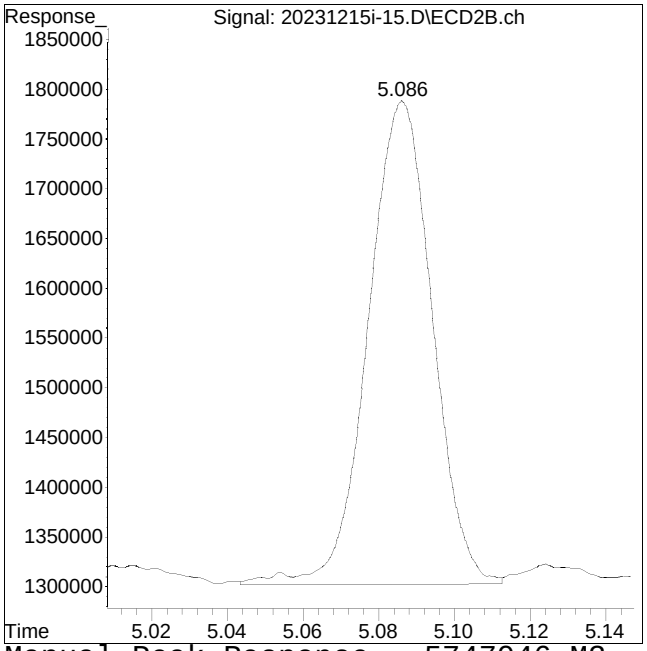
Original Peak Response = 1921154 Manual Peak Response = 1989038 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest20\2023\231215QMethod : pest20_2023_12_15_ugL_IC
Data File : 20231215i-15.D Operator : pest20:ejl
Date Inj'd : 12/15/2023 7:28 pm Instrument : PEST 20
Sample : il4chlor,42e,,pp 11324 L0.Quant Date : 12/18/2023 12:36 pm

Compound #69: chlordane-4 #2



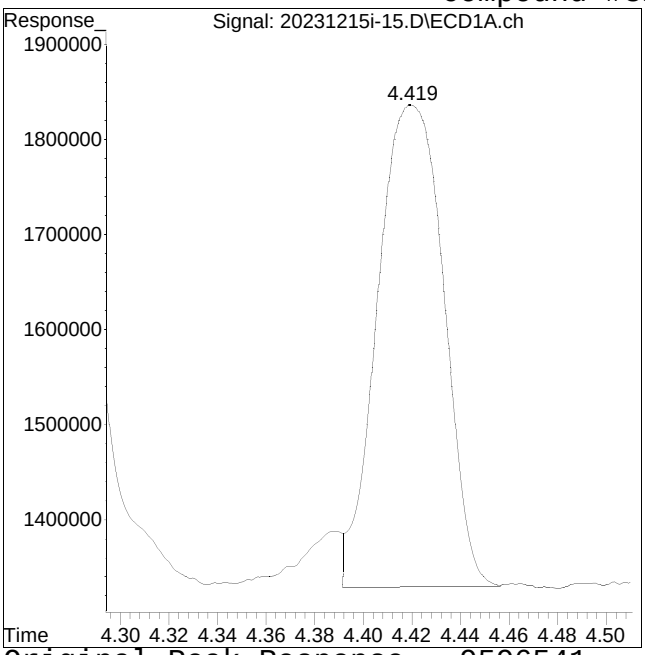


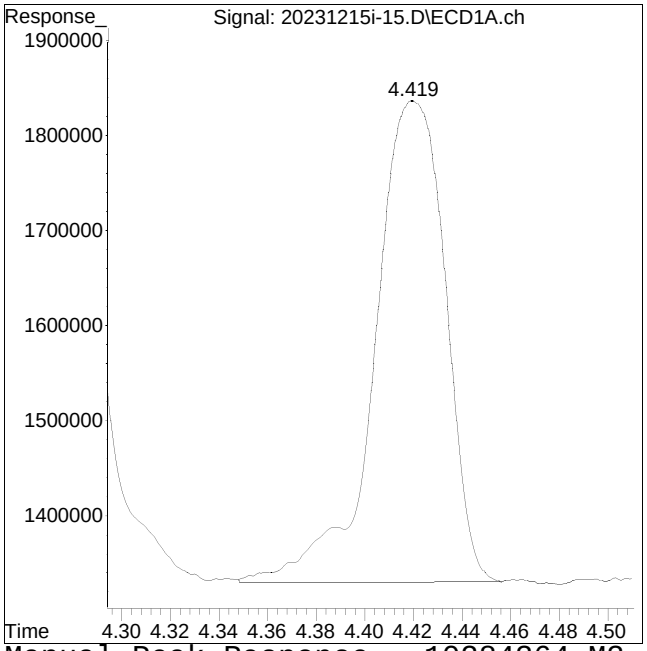
Original Peak Response = 5672814 Manual Peak Response = 5747046 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest20\2023\231215QMethod : pest20_2023_12_15_ugL_IC
Data File : 20231215i-15.D Operator : pest20:ejl
Date Inj'd : 12/15/2023 7:28 pm Instrument : PEST 20
Sample : il4chlor,42e,,pp 11324 L0.Quant Date : 12/18/2023 12:36 pm

Compound #32: chlordane-5





Original Peak Response = 9596541 Manual Peak Response = 10284364 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest20\2023\231215ical\
Data File : 20231215i-16.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Dec 2023 07:40 pm
Operator : pest20:ejl
Sample : il5chlor,42e,,pp 11323 L0.1
Misc : wg1865714,ical (Sig #1); ical (Sig #2)
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 18 12:35:42 2023
Quant Method : I:\PEST\Pest20\2023\231215ical\pest20_2023_12_15_ugL_ICAL.m
Quant Title : pest
QLast Update : Mon Dec 18 12:34:38 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	1.828	1.991	46672748	45109703	25.000	25.000M3
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
	Target Compounds						
3)	Hexachlorobe	0.000	0.000	0	0	N.D.	N.D.
4)	alpha-BHC	0.000	0.000	0	0	N.D.	N.D.
5)	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6)	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8)	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9)	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10)	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11)	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12)	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13)	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14)	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16)	Endosulfan I	0.000	0.000	0	0	N.D.	N.D.
17)	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18)	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22)	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d
23)	Methoxychlor	0.000	0.000	0	0	N.D.	N.D.

Data Path : I:\PEST\Pest20\2023\231215ical\
Data File : 20231215i-16.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Dec 2023 07:40 pm
Operator : pest20:ejl
Sample : il5chlor,42e,,pp 11323 L0.1
Misc : wg1865714,ical (Sig #1); ical (Sig #2)
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 18 12:35:42 2023
Quant Method : I:\PEST\Pest20\2023\231215ical\pest20_2023_12_15_ugL_ICAL.m
Quant Title : pest
QLast Update : Mon Dec 18 12:34:38 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
24)		Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25)		Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26)		Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29)	l1	chlordane-1	3.220	3.710	7944226	7652195	119.910	118.511
30)	l1	chlordane-3	3.685	4.373	9558149	8905138	129.055	126.631M3
31)	l1	chlordane-4	4.284	5.086	27966760	24779701	111.074	109.387M3
32)	l1	chlordane-5	4.420	5.245	43401044	20789084	111.642M3	111.650
	Sum	chlordane-1			88870178	62126118	NoCal	NoCal D
Average		chlordane-1					117.920	116.545
34)	l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35)	l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36)	l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37)	l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum	toxaphene-1			0	0	N.D.	N.D.
Average		toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

	Sum	toxaphene-1			0	0	N.D.	N.D.
Average		toxaphene-1					0.000	0.000

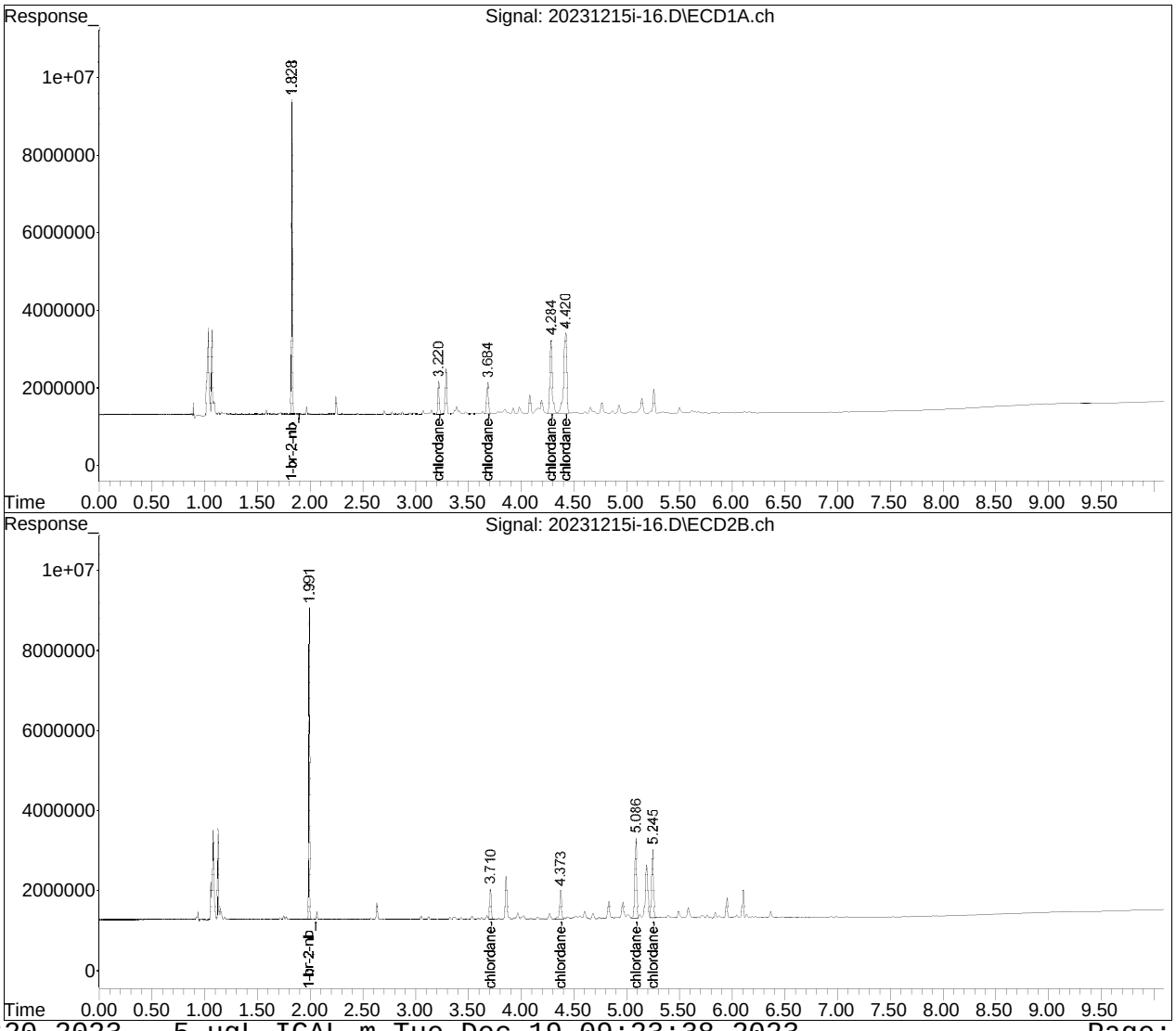
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest20\2023\231215ical\
Data File : 20231215i-16.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Dec 2023 07:40 pm
Operator : pest20:ejl
Sample : il5chlor,42e,,pp 11323 L0.1
Misc : wg1865714,ical (Sig #1); ical (Sig #2)
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 18 12:35:42 2023
Quant Method : I:\PEST\Pest20\2023\231215ical\pest20_2023_12_15_ugL_ICAL.m
Quant Title : pest
QLast Update : Mon Dec 18 12:34:38 2023
Response via : Initial Calibration
Integrator: ChemStation

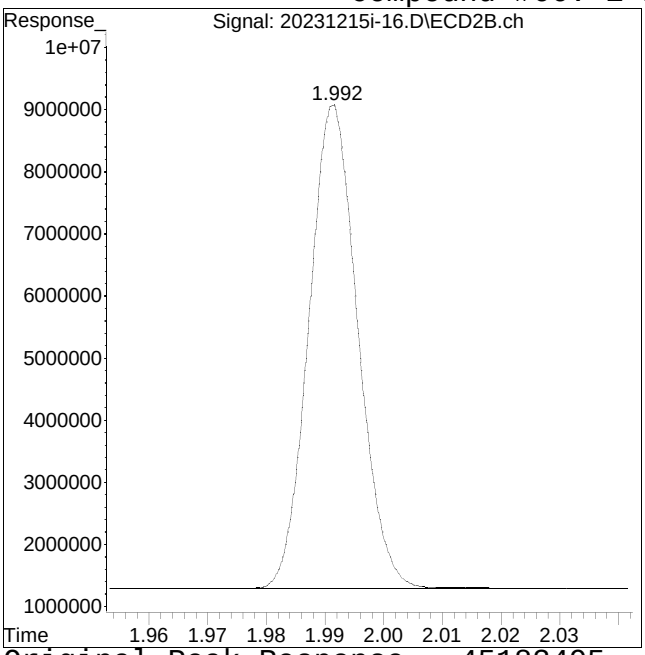
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

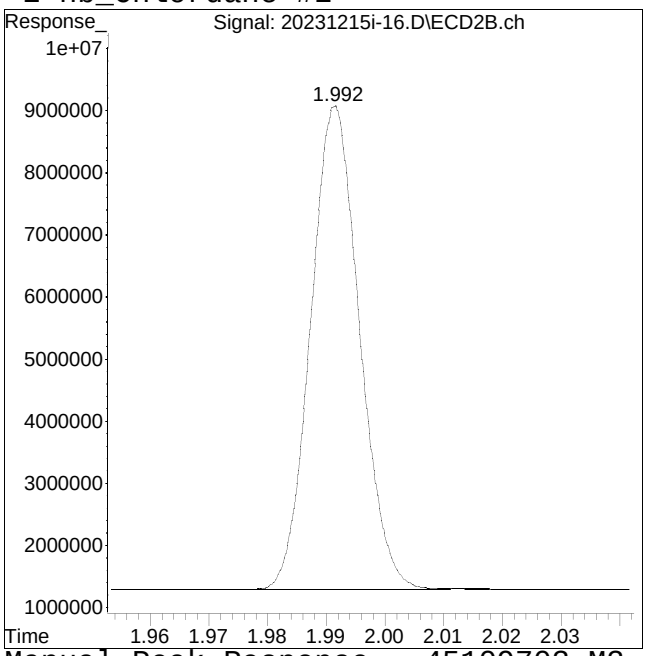


Manual Integration Report

Data Path : I:\PEST\Pest20\2023\231215QMethod : pest20_2023_12_15_ugL_IC
Data File : 20231215i-16.D Operator : pest20:ejl
Date Inj'd : 12/15/2023 7:40 pm Instrument : PEST 20
Sample : il5chlor,42e,,pp 11323 L0.Quant Date : 12/18/2023 12:34 pm

Compound #66: 1-br-2-nb_Chlordane #2



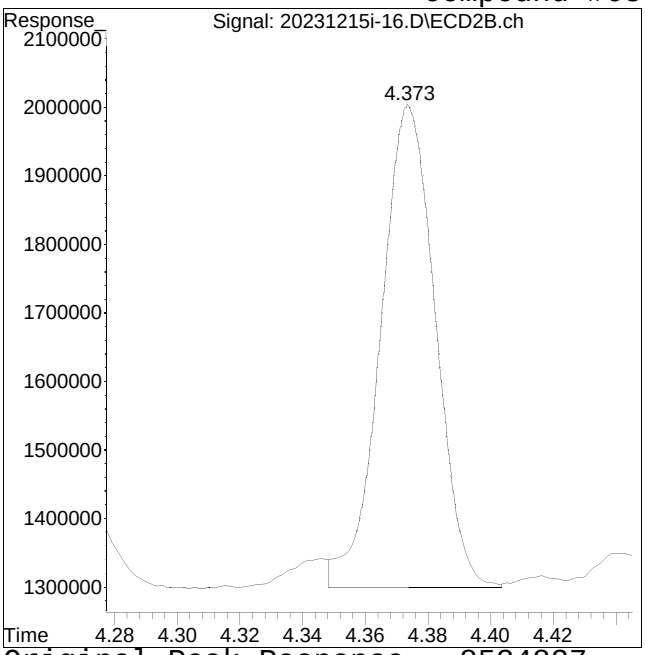


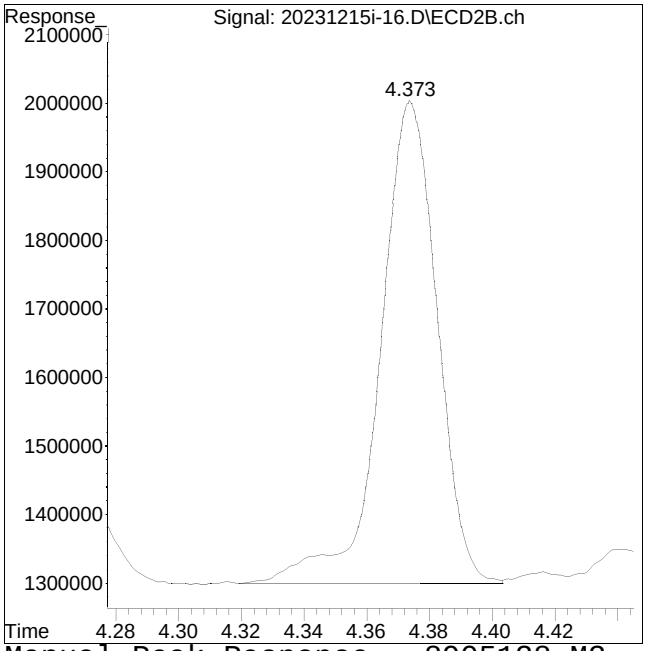
Original Peak Response = 45183495 Manual Peak Response = 45109703 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest20\2023\231215QMethod : pest20_2023_12_15_ugL_IC
Data File : 20231215i-16.D Operator : pest20:ejl
Date Inj'd : 12/15/2023 7:40 pm Instrument : PEST 20
Sample : il5chlor,42e,,pp 11323 L0.Quant Date : 12/18/2023 12:34 pm

Compound #68: chlordane-3 #2



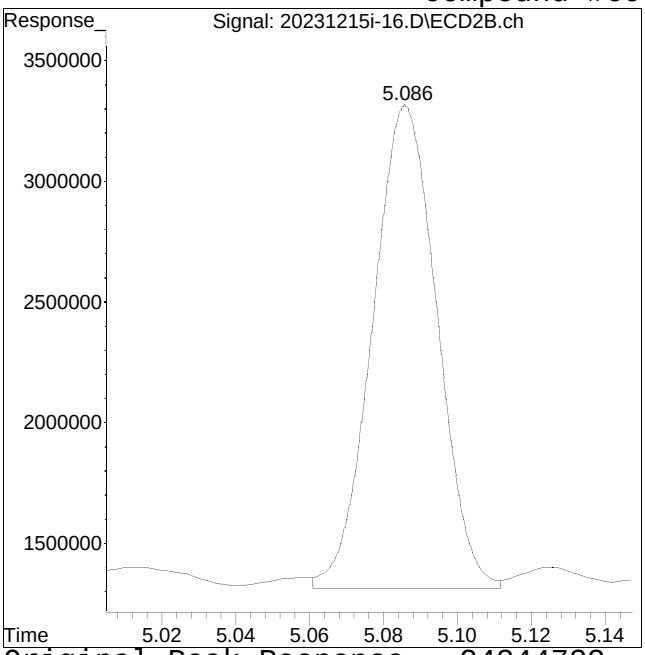


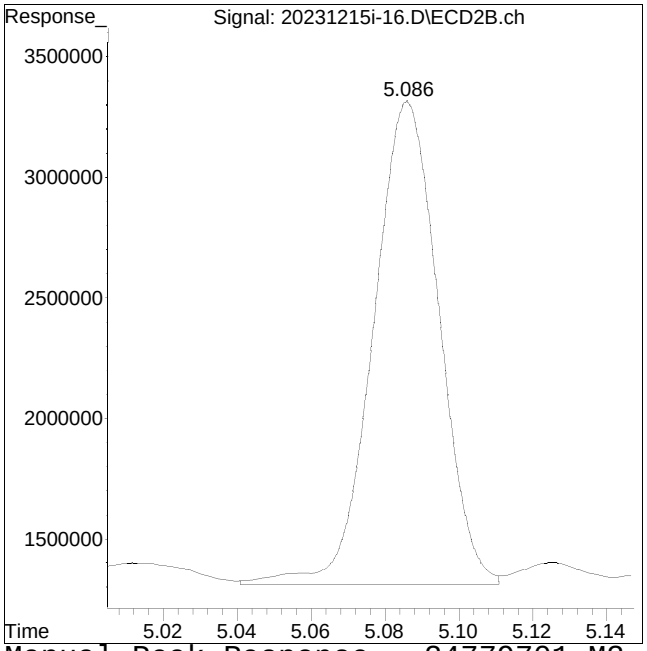
Original Peak Response = 8534827 Manual Peak Response = 8905138 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest20\2023\231215QMethod : pest20_2023_12_15_ugL_IC
Data File : 20231215i-16.D Operator : pest20:ejl
Date Inj'd : 12/15/2023 7:40 pm Instrument : PEST 20
Sample : il5chlor,42e,,pp 11323 L0.Quant Date : 12/18/2023 12:34 pm

Compound #69: chlordane-4 #2



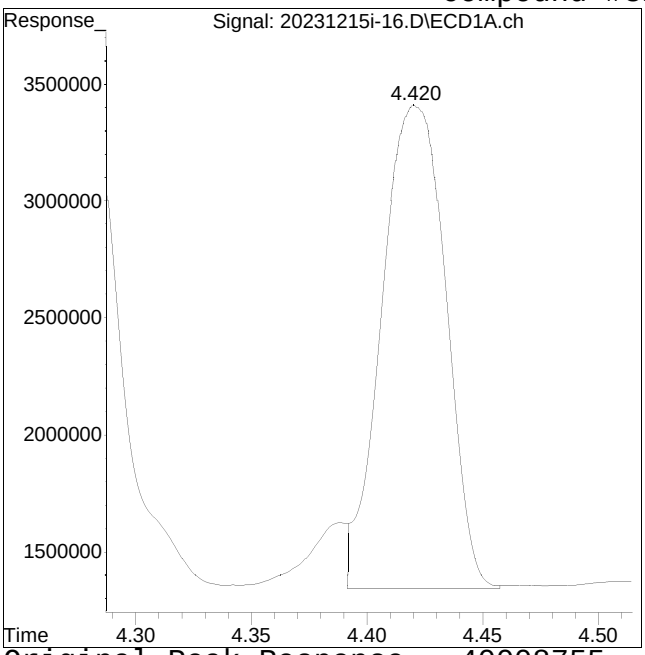


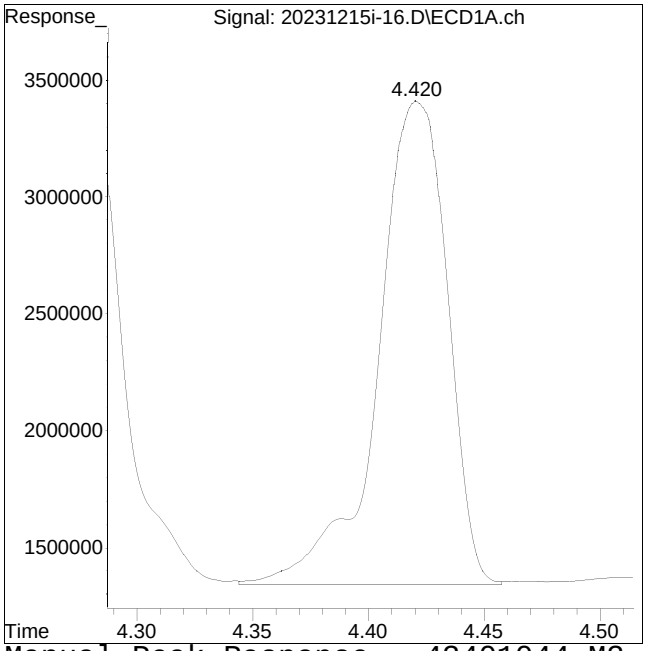
Original Peak Response = 24344732 Manual Peak Response = 24779701 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest20\2023\231215QMethod : pest20_2023_12_15_ugL_IC
Data File : 20231215i-16.D Operator : pest20:ejl
Date Inj'd : 12/15/2023 7:40 pm Instrument : PEST 20
Sample : il5chlor,42e,,pp 11323 L0.Quant Date : 12/18/2023 12:34 pm

Compound #32: chlordane-5





Original Peak Response = 40008755 Manual Peak Response = 43401044 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest20\2023\231215ical\
Data File : 20231215i-17.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Dec 2023 07:53 pm
Operator : pest20:ejl
Sample : il7chlor,42e,,pp 11322 L0.5
Misc : wg1865714,ical (Sig #1); ical (Sig #2)
ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 18 12:34:10 2023
Quant Method : I:\PEST\Pest20\2023\231215ical\pest20_2023_12_15_ugL_ICAL.m
Quant Title : pest
QLast Update : Mon Dec 18 12:32:40 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	1.828	1.992	47951912	46305288	25.000M3	25.000
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
	Target Compounds						
3)	Hexachlorobe	0.000	0.000	0	0	N.D.	N.D.
4)	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6)	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8)	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9)	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10)	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11)	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12)	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13)	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14)	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17)	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18)	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22)	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d
23)	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest20\2023\231215ical\
Data File : 20231215i-17.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Dec 2023 07:53 pm
Operator : pest20:ejl
Sample : il7chlor,42e,,pp 11322 L0.5
Misc : wg1865714,ical (Sig #1); ical (Sig #2)
ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 18 12:34:10 2023
Quant Method : I:\PEST\Pest20\2023\231215ical\pest20_2023_12_15_ugL_ICAL.m
Quant Title : pest
QLast Update : Mon Dec 18 12:32:40 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
24)		Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25)		Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26)		Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29)	l1	chlordane-1	3.219	3.711	35268192	34700586	524.478	531.886
30)	l1	chlordane-3	3.683	4.375	41272146	39591124	558.172	566.753M3
31)	l1	chlordane-4	4.283	5.087	131.8E6	119.9E6	512.730	521.020M3
32)	l1	chlordane-5	4.420	5.247	204.8E6	99593764	517.020M3	528.491
	Sum	chlordane-1			413.1E6	293.8E6	NoCal	NoCal D
Average		chlordane-1					528.100	537.038
34)	l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35)	l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36)	l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37)	l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum	toxaphene-1			0	0	N.D.	N.D.
Average		toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

	Sum	toxaphene-1			0	0	N.D.	N.D.
Average		toxaphene-1					0.000	0.000

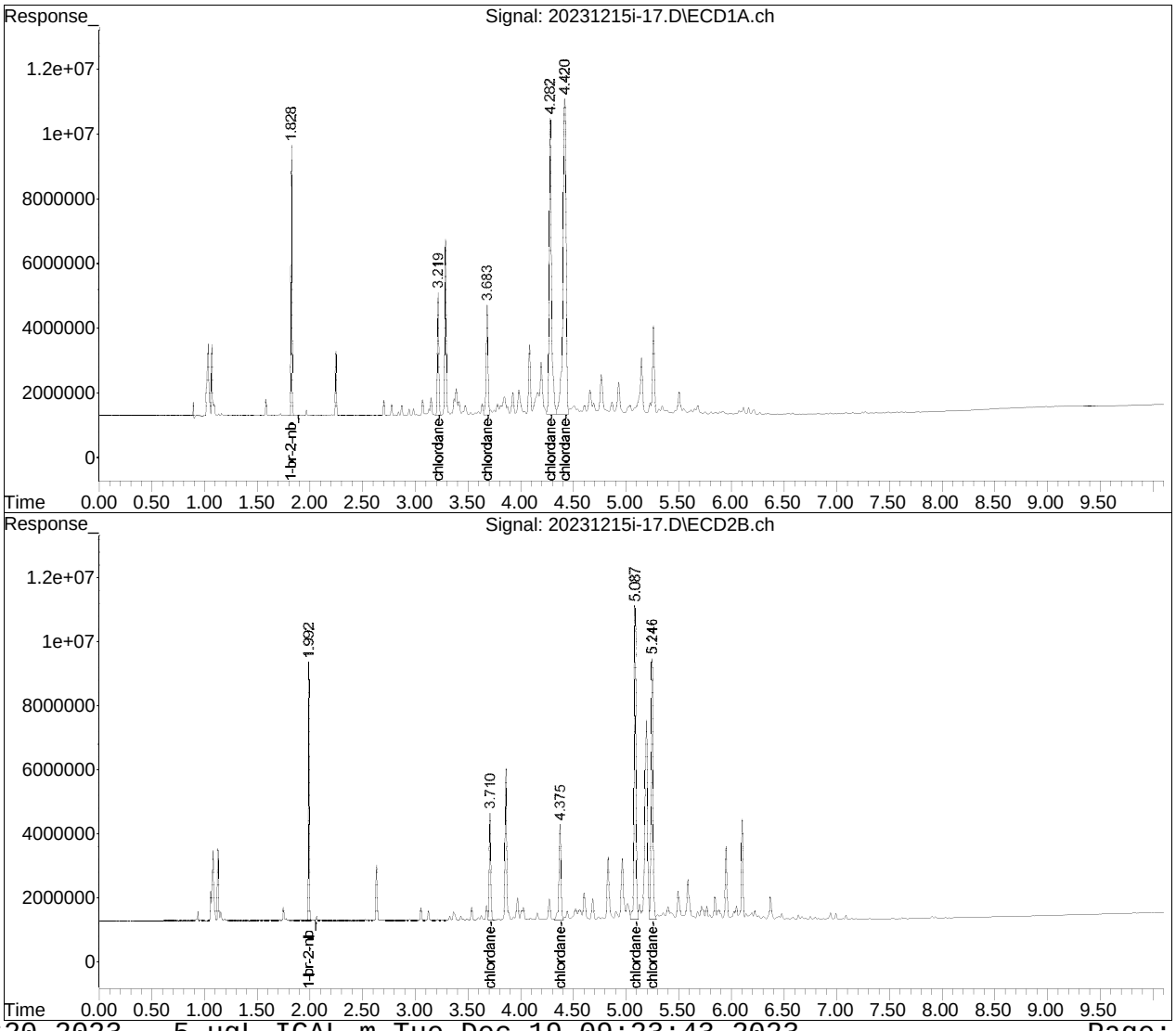
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest20\2023\231215ical\
Data File : 20231215i-17.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Dec 2023 07:53 pm
Operator : pest20:ejl
Sample : il7chlor,42e,,pp 11322 L0.5
Misc : wg1865714,ical (Sig #1); ical (Sig #2)
ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 18 12:34:10 2023
Quant Method : I:\PEST\Pest20\2023\231215ical\pest20_2023_12_15_ugL_ICAL.m
Quant Title : pest
QLast Update : Mon Dec 18 12:32:40 2023
Response via : Initial Calibration
Integrator: ChemStation

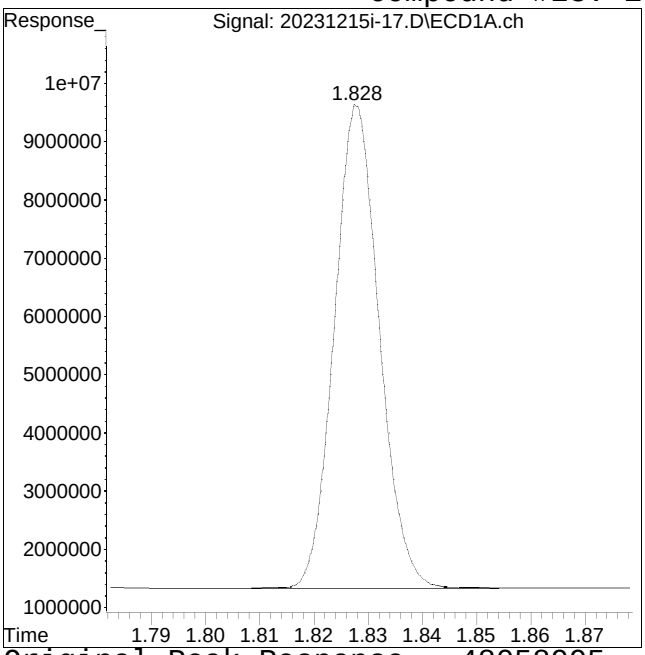
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

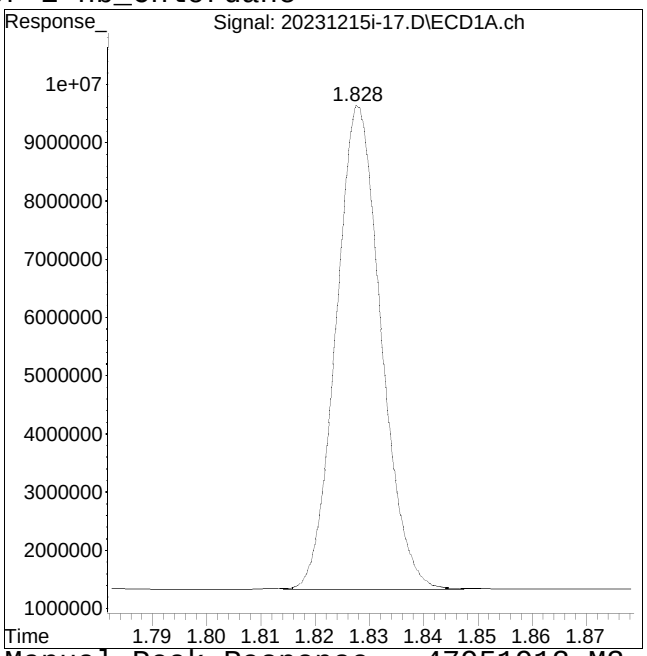


Manual Integration Report

Data Path : I:\PEST\Pest20\2023\231215QMethod : pest20_2023_12_15_ugL_IC
Data File : 20231215i-17.D Operator : pest20:ejl
Date Inj'd : 12/15/2023 7:53 pm Instrument : PEST 20
Sample : il7chlor,42e,,pp 11322 L0.Quant Date : 12/18/2023 12:32 pm

Compound #28: 1-br-2-nb_Chlordane



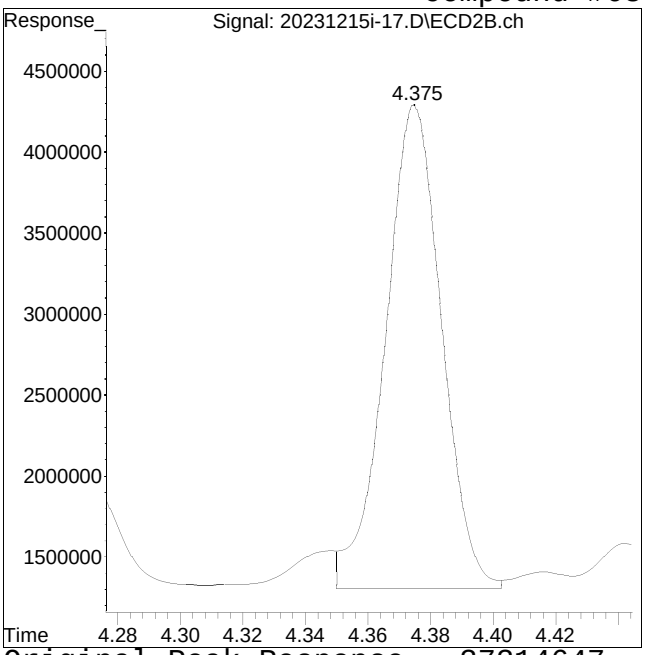


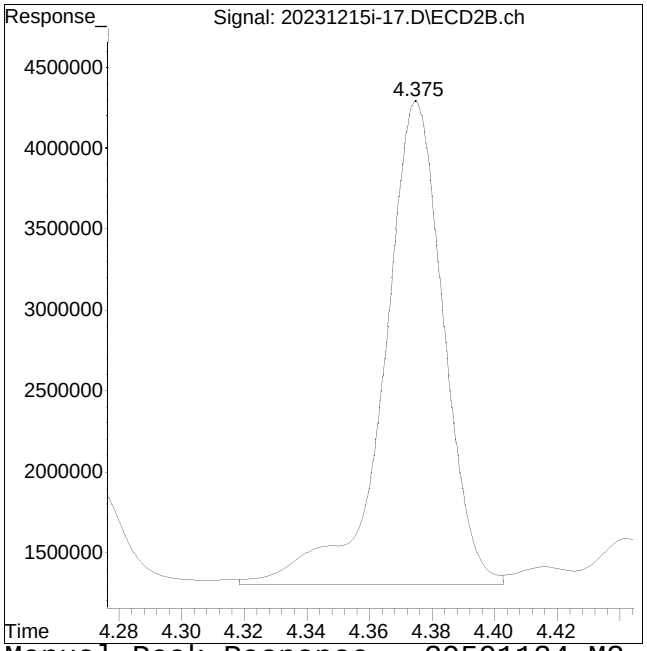
Original Peak Response = 48058995 Manual Peak Response = 47951912 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest20\2023\231215QMethod : pest20_2023_12_15_ugL_IC
Data File : 20231215i-17.D Operator : pest20:ejl
Date Inj'd : 12/15/2023 7:53 pm Instrument : PEST 20
Sample : il7chlor,42e,,pp 11322 L0.Quant Date : 12/18/2023 12:32 pm

Compound #68: chlordane-3 #2



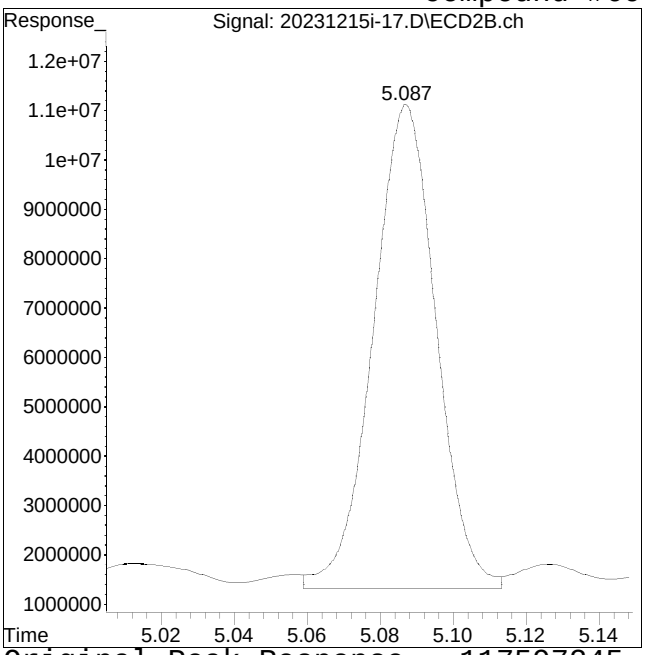


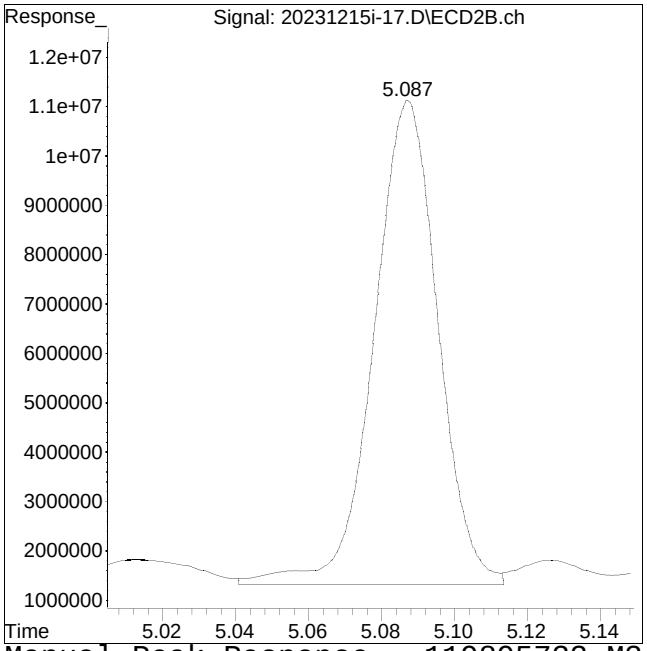
Original Peak Response = 37314647 Manual Peak Response = 39591124 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest20\2023\231215QMethod : pest20_2023_12_15_ugL_IC
Data File : 20231215i-17.D Operator : pest20:ejl
Date Inj'd : 12/15/2023 7:53 pm Instrument : PEST 20
Sample : il7chlor,42e,,pp 11322 L0.Quant Date : 12/18/2023 12:32 pm

Compound #69: chlordane-4 #2



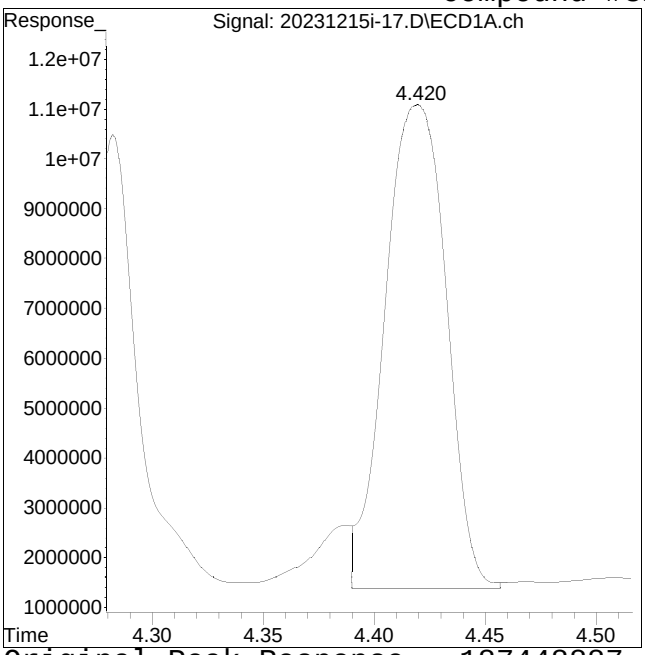


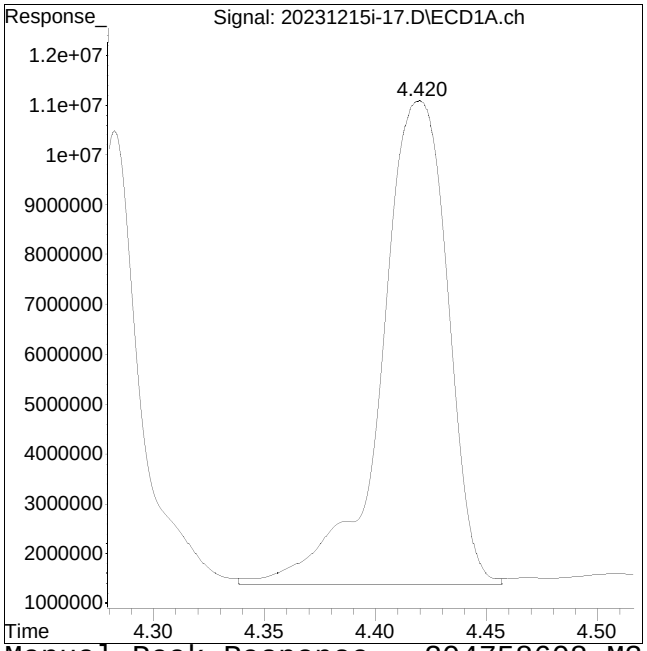
Original Peak Response = 117597245 Manual Peak Response = 119895733 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest20\2023\231215QMethod : pest20_2023_12_15_ugL_IC
Data File : 20231215i-17.D Operator : pest20:ejl
Date Inj'd : 12/15/2023 7:53 pm Instrument : PEST 20
Sample : il7chlor,42e,,pp 11322 L0.Quant Date : 12/18/2023 12:32 pm

Compound #32: chlordane-5





Original Peak Response = 187448887 Manual Peak Response = 204758608 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest20\2023\231215ical\
Data File : 20231215i-18.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Dec 2023 08:05 pm
Operator : pest20:ejl
Sample : il8chlor,42e,,pp 11321 L1.0
Misc : wg1865714,ical (Sig #1); ical (Sig #2)
ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 18 12:29:27 2023
Quant Method : I:\PEST\Pest20\2023\231215ical\pest20_2023_12_15_ugL_ICAL.m
Quant Title : pest
QLast Update : Mon Dec 18 12:28:30 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	1.828	1.992	47979582	46241697	25.000M4	25.000
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
	Target Compounds						
3)	Hexachlorobe	0.000	0.000	0	0	N.D. d	N.D. d
4)	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6)	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8)	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9)	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10)	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11)	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12)	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13)	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14)	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17)	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18)	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22)	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d
23)	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest20\2023\231215ical\
Data File : 20231215i-18.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Dec 2023 08:05 pm
Operator : pest20:ejl
Sample : il8chlor,42e,,pp 11321 L1.0
Misc : wg1865714,ical (Sig #1); ical (Sig #2)
ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 18 12:29:27 2023
Quant Method : I:\PEST\Pest20\2023\231215ical\pest20_2023_12_15_ugL_ICAL.m
Quant Title : pest
QLast Update : Mon Dec 18 12:28:30 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
24)	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25)	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26)	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	3.220	3.711	70306904	68586414	NoCal	NoCal
30) l1	chlordane-3	3.684	4.374	79793168	75971768	NoCal	NoCal
31) l1	chlordane-4	4.284	5.086	266.6E6	240.7E6	NoCal	NoCal M3
32) l1	chlordane-5	4.421	5.245	412.6E6	197.5E6	NoCal M3	NoCal
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

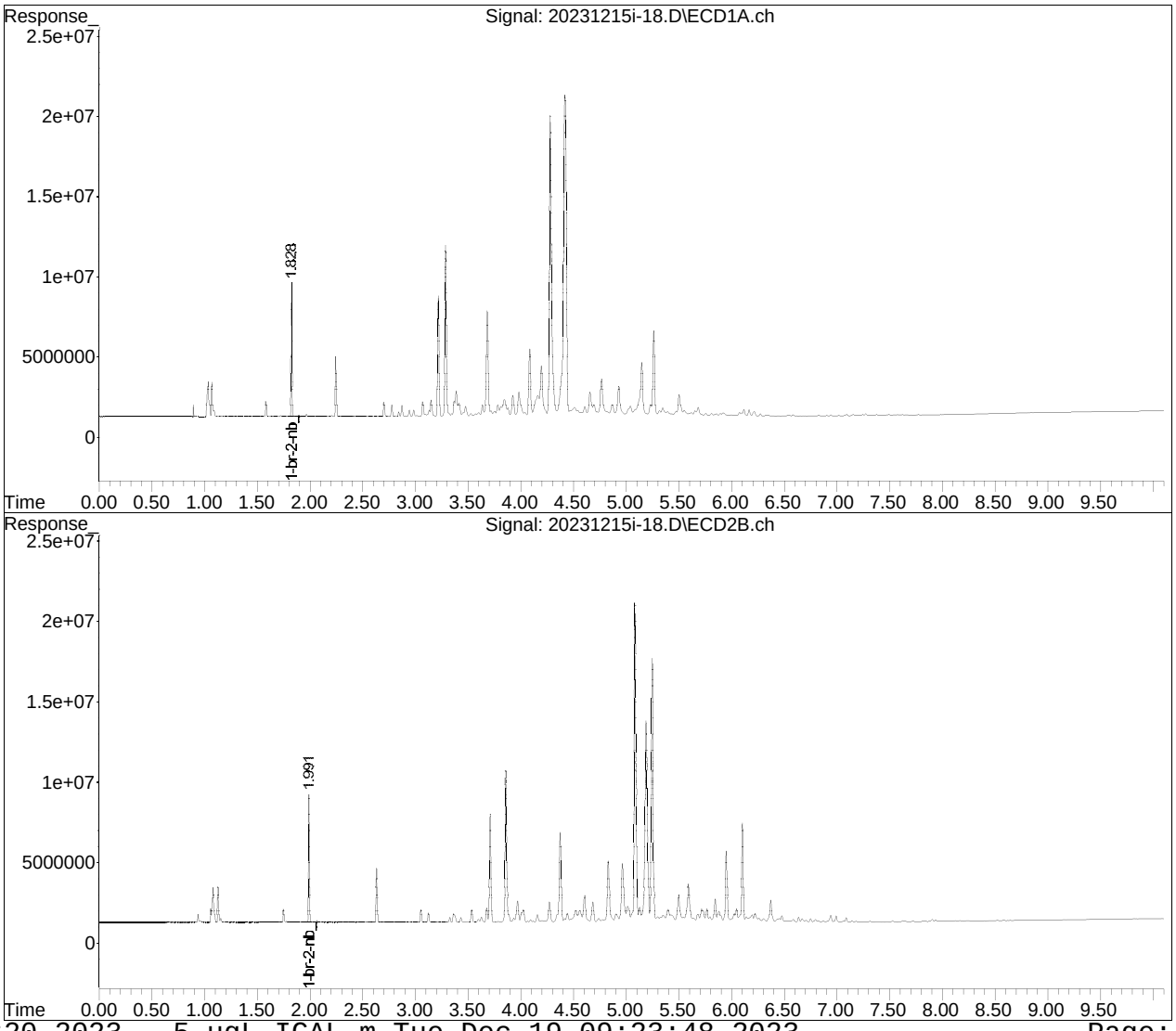
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest20\2023\231215ical\
Data File : 20231215i-18.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Dec 2023 08:05 pm
Operator : pest20:ejl
Sample : il8chlor,42e,,pp 11321 L1.0
Misc : wg1865714,ical (Sig #1); ical (Sig #2)
ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 18 12:29:27 2023
Quant Method : I:\PEST\Pest20\2023\231215ical\pest20_2023_12_15_ugL_ICAL.m
Quant Title : pest
QLast Update : Mon Dec 18 12:28:30 2023
Response via : Initial Calibration
Integrator: ChemStation

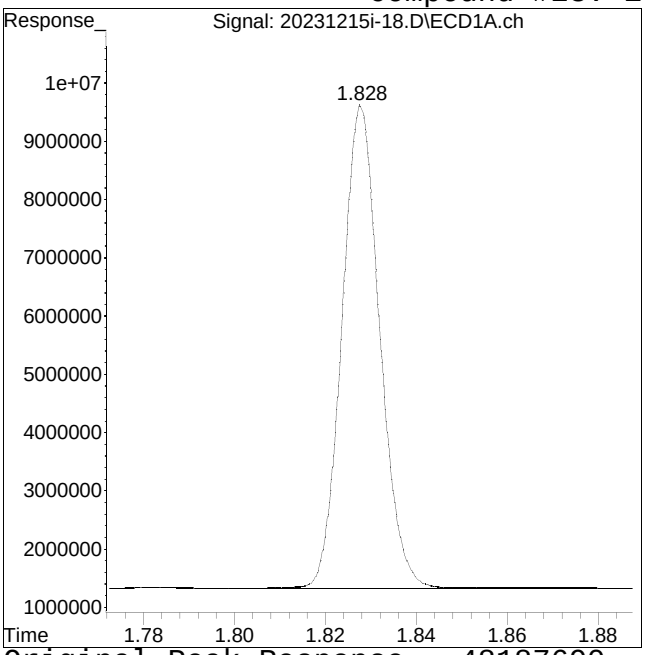
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



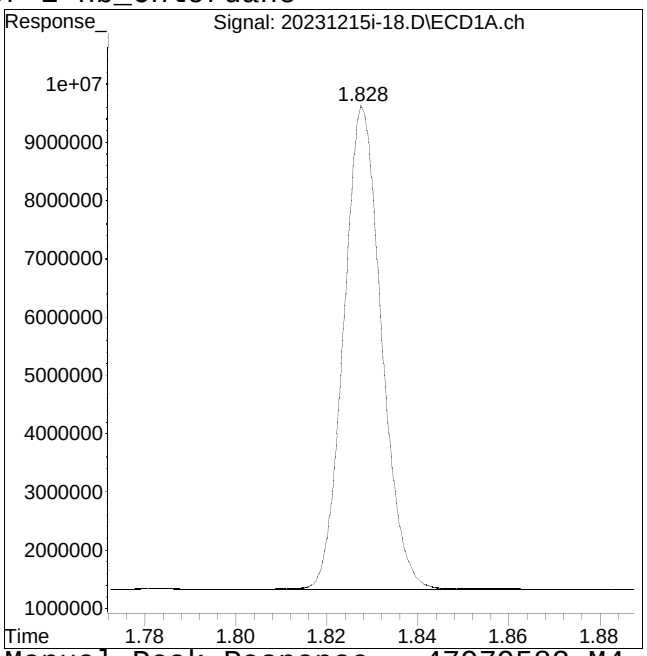
Manual Integration Report

Data Path : I:\PEST\Pest20\2023\231215QMethod : pest20_2023_12_15_ugL_IC
Data File : 20231215i-18.D Operator : pest20:ejl
Date Inj'd : 12/15/2023 8:05 pm Instrument : PEST 20
Sample : il8chlor,42e,,pp 11321 L1.Quant Date : 12/18/2023 12:28 pm

Compound #28: 1-br-2-nb_Chlordane



Original Peak Response = 48187690



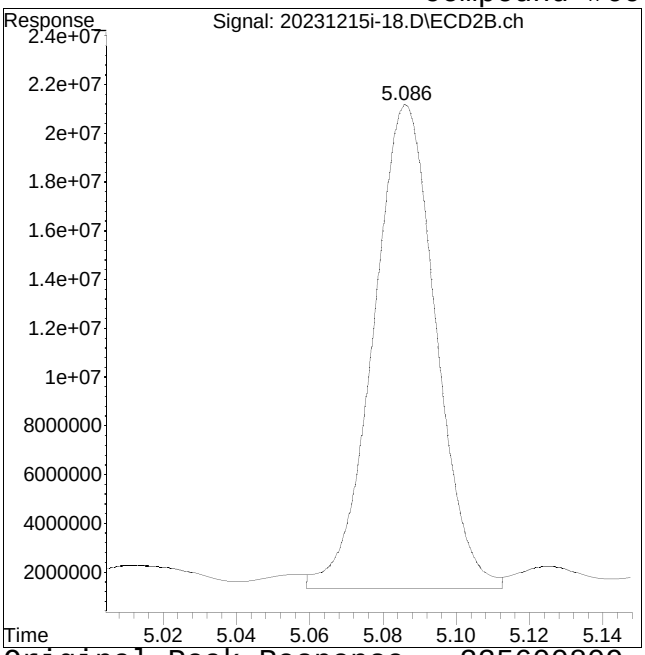
Manual Peak Response = 47979582 M4

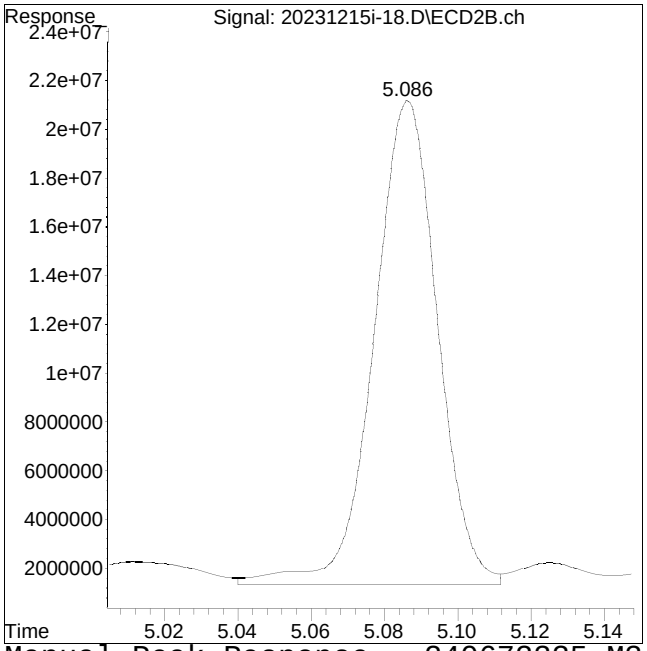
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2023\231215QMethod : pest20_2023_12_15_ugL_IC
Data File : 20231215i-18.D Operator : pest20:ejl
Date Inj'd : 12/15/2023 8:05 pm Instrument : PEST 20
Sample : il8chlor,42e,,pp 11321 L1.Quant Date : 12/18/2023 12:28 pm

Compound #69: chlordane-4 #2



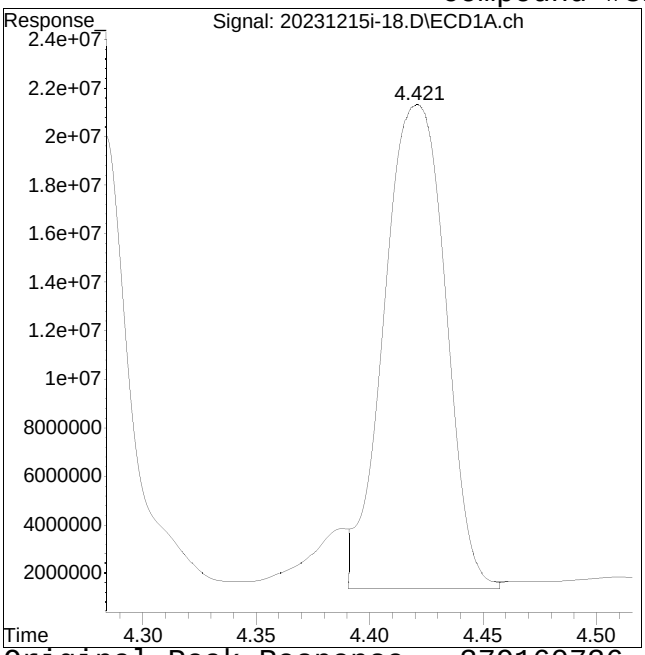


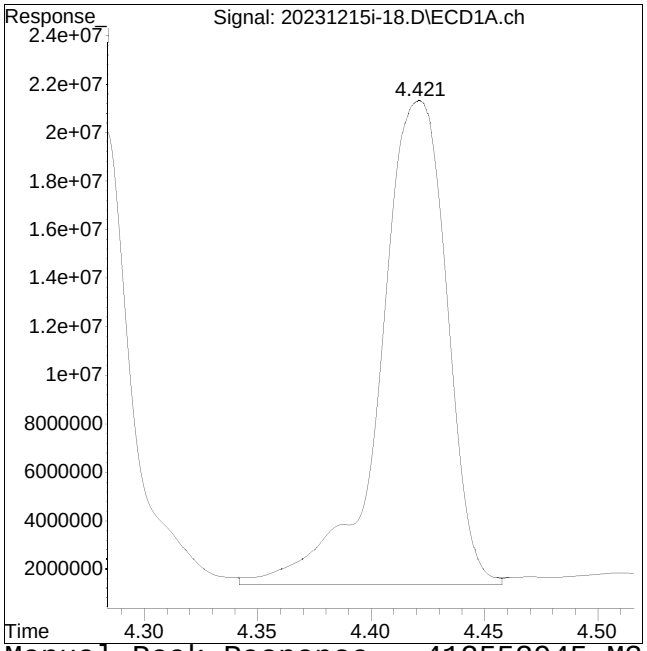
Original Peak Response = 235600809 Manual Peak Response = 240673335 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest20\2023\231215QMethod : pest20_2023_12_15_ugL_IC
Data File : 20231215i-18.D Operator : pest20:ejl
Date Inj'd : 12/15/2023 8:05 pm Instrument : PEST 20
Sample : il8chlor,42e,,pp 11321 L1.Quant Date : 12/18/2023 12:28 pm

Compound #32: chlordane-5





Original Peak Response = 379160736 Manual Peak Response = 412553945 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest20\2023\231215ical\
Data File : 20231215i-19.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Dec 2023 08:17 pm
Operator : pest20:ejl
Sample : il9chlor,42e,,pp 11320 L2.0
Misc : wg1865714,ical (Sig #1); ical (Sig #2)
ALS Vial : 19 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 18 12:30:44 2023
Quant Method : I:\PEST\Pest20\2023\231215ical\pest20_2023_12_15_ugL_ICAL.m
Quant Title : pest
QLast Update : Mon Dec 18 12:29:48 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	1.828	1.992	52401895	50446374	25.000M4	25.000M3
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
	Target Compounds						
3)	Hexachlorobe	0.000	0.000	0	0	N.D. d	N.D. d
4)	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6)	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8)	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9)	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10)	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11)	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12)	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13)	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14)	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17)	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18)	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22)	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest20\2023\231215ical\
Data File : 20231215i-19.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Dec 2023 08:17 pm
Operator : pest20:ejl
Sample : il9chlor,42e,,pp 11320 L2.0
Misc : wg1865714,ical (Sig #1); ical (Sig #2)
ALS Vial : 19 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 18 12:30:44 2023
Quant Method : I:\PEST\Pest20\2023\231215ical\pest20_2023_12_15_ugL_ICAL.m
Quant Title : pest
QLast Update : Mon Dec 18 12:29:48 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
23)		Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
24)		Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25)		Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26)		Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29)	l1	chlordane-1	3.220	3.710	140.1E6	136.0E6	1823.904	1817.906
30)	l1	chlordane-3	3.684	4.373	152.9E6	145.0E6	1754.174	1749.589
31)	l1	chlordane-4	4.284	5.085	533.1E6	478.1E6	1830.990	1820.909M3
32)	l1	chlordane-5	4.421	5.245	820.5E6	391.3E6	1821.025M3	1815.815
	Sum	chlordane-1			1646.6E6	1150.4E6	NoCal	NoCal D
Average		chlordane-1					1807.523	1801.055
34)	l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35)	l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36)	l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37)	l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum	toxaphene-1			0	0	N.D.	N.D.
Average		toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

	Sum	toxaphene-1			0	0	N.D.	N.D.
Average		toxaphene-1					0.000	0.000

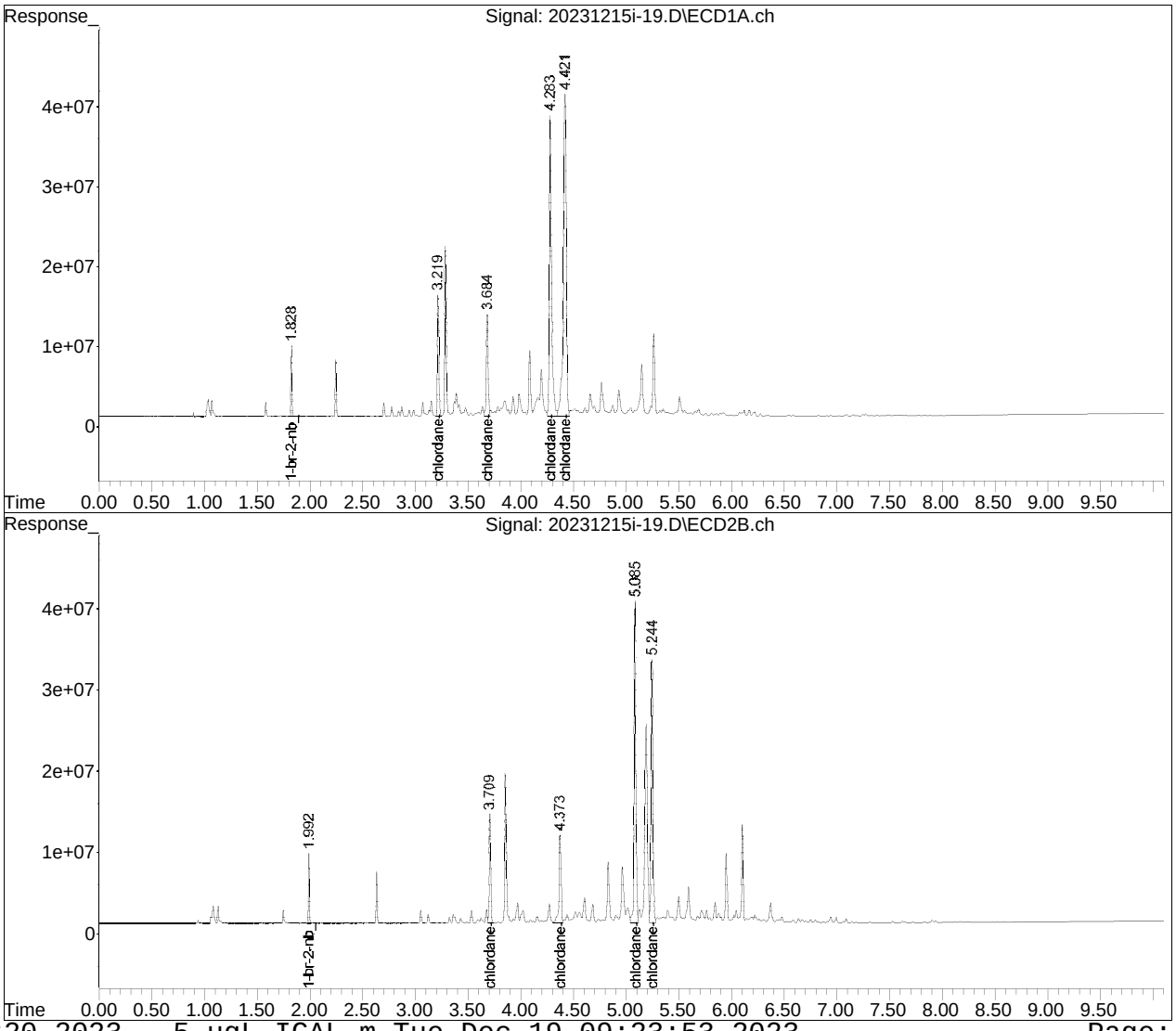
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest20\2023\231215ical\
Data File : 20231215i-19.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Dec 2023 08:17 pm
Operator : pest20:ejl
Sample : il9chlor,42e,,pp 11320 L2.0
Misc : wg1865714,ical (Sig #1); ical (Sig #2)
ALS Vial : 19 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 18 12:30:44 2023
Quant Method : I:\PEST\Pest20\2023\231215ical\pest20_2023_12_15_ugL_ICAL.m
Quant Title : pest
QLast Update : Mon Dec 18 12:29:48 2023
Response via : Initial Calibration
Integrator: ChemStation

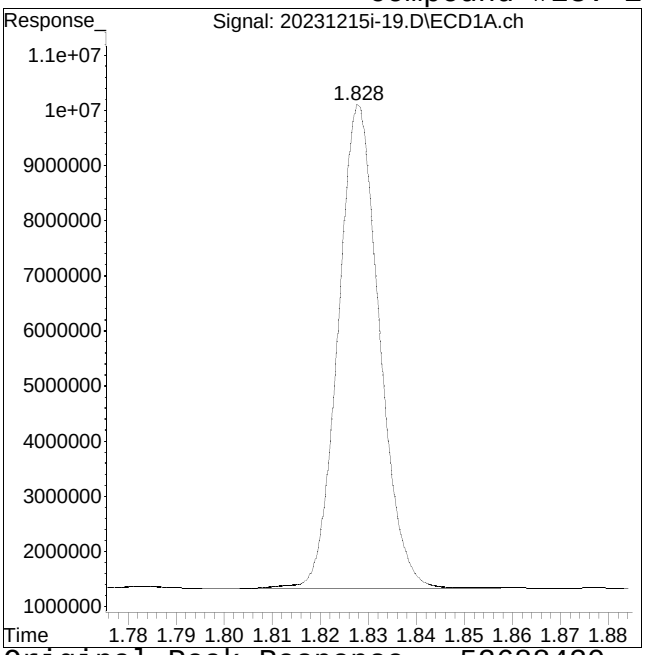
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

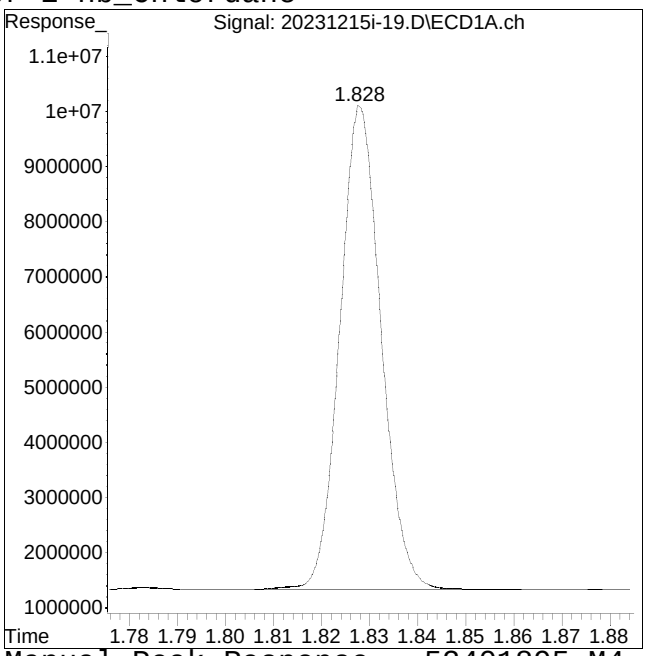


Manual Integration Report

Data Path : I:\PEST\Pest20\2023\231215QMethod : pest20_2023_12_15_ugL_IC
Data File : 20231215i-19.D Operator : pest20:ejl
Date Inj'd : 12/15/2023 8:17 pm Instrument : PEST 20
Sample : il9chlor,42e,,pp 11320 L2.Quant Date : 12/18/2023 12:29 pm

Compound #28: 1-br-2-nb_Chlordane



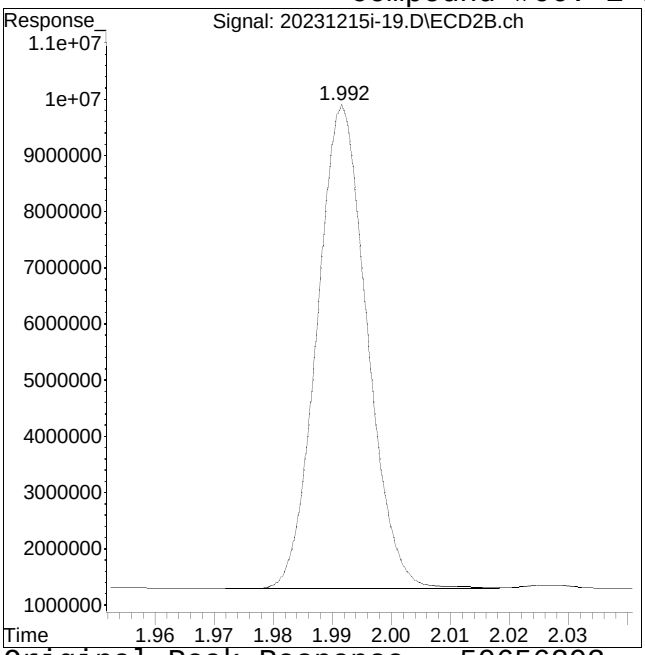


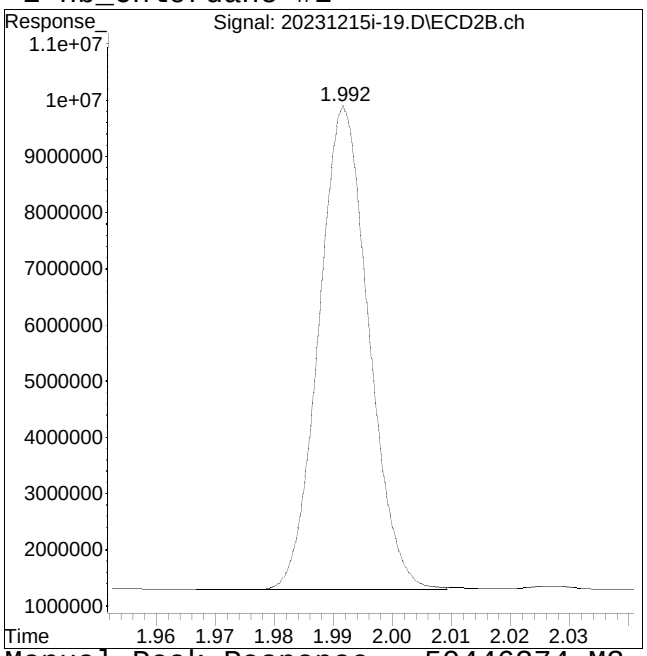
Original Peak Response = 52688430 Manual Peak Response = 52401895 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2023\231215QMethod : pest20_2023_12_15_ugL_IC
Data File : 20231215i-19.D Operator : pest20:ejl
Date Inj'd : 12/15/2023 8:17 pm Instrument : PEST 20
Sample : il9chlor,42e,,pp 11320 L2.Quant Date : 12/18/2023 12:29 pm

Compound #66: 1-br-2-nb_Chlordane #2



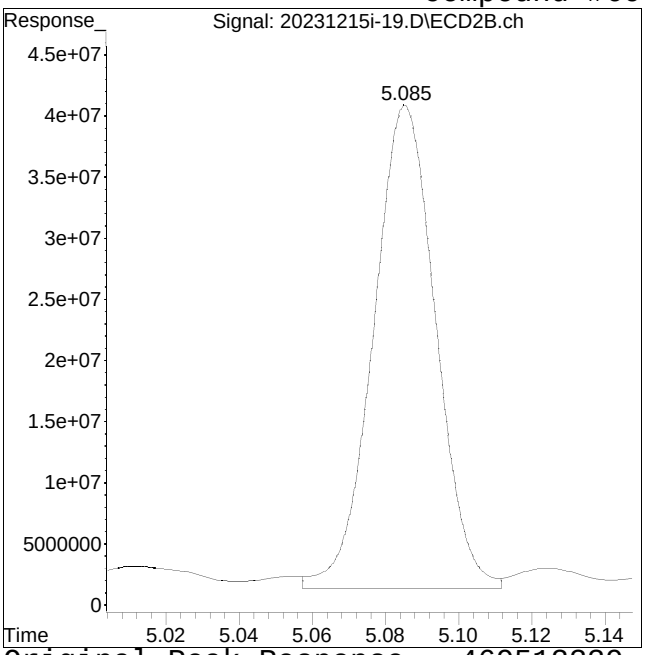


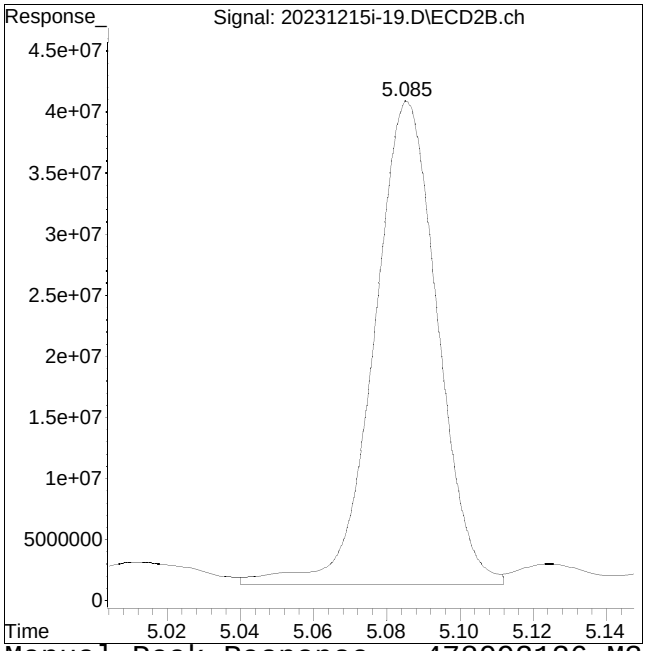
Original Peak Response = 50656293 Manual Peak Response = 50446374 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest20\2023\231215QMethod : pest20_2023_12_15_ugL_IC
Data File : 20231215i-19.D Operator : pest20:ejl
Date Inj'd : 12/15/2023 8:17 pm Instrument : PEST 20
Sample : il9chlor,42e,,pp 11320 L2.Quant Date : 12/18/2023 12:29 pm

Compound #69: chlordane-4 #2



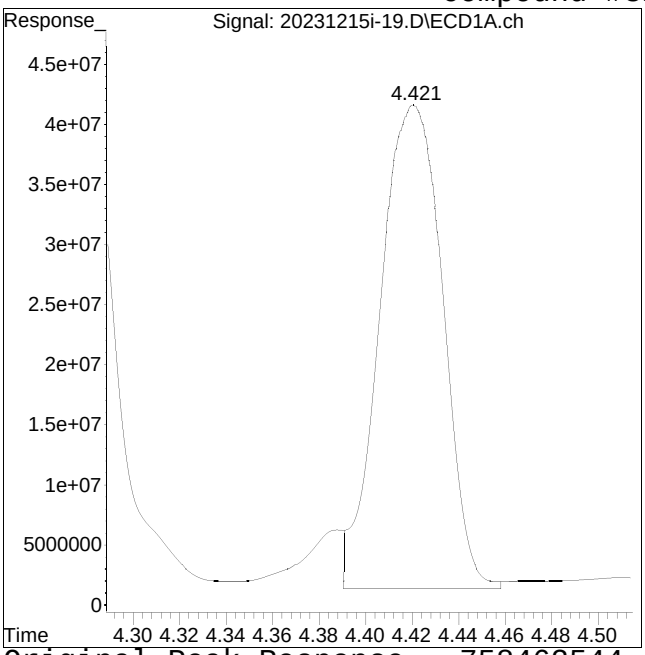


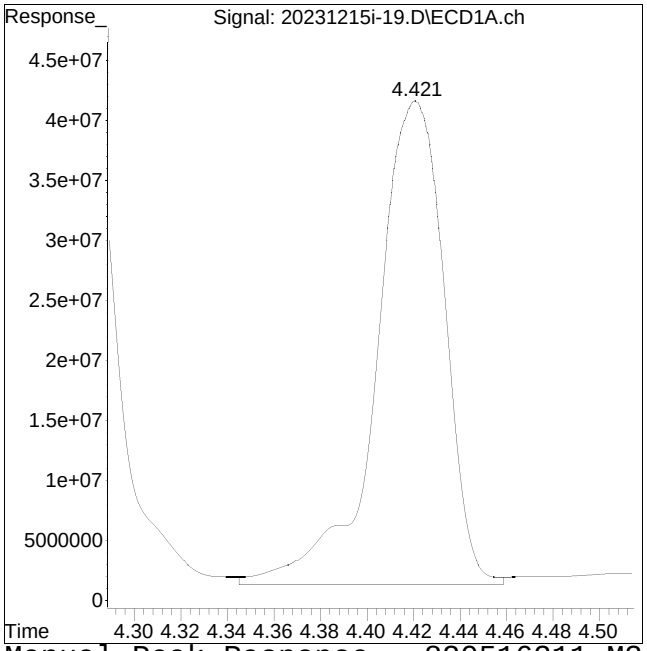
Original Peak Response = 469512339 Manual Peak Response = 478093136 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest20\2023\231215QMethod : pest20_2023_12_15_ugL_IC
Data File : 20231215i-19.D Operator : pest20:ejl
Date Inj'd : 12/15/2023 8:17 pm Instrument : PEST 20
Sample : il9chlor,42e,,pp 11320 L2.Quant Date : 12/18/2023 12:29 pm

Compound #32: chlordane-5





Original Peak Response = 758462544 Manual Peak Response = 820516211 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest20\2023\231215ical\
Data File : 20231215i-20.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Dec 2023 08:30 pm
Operator : pest20:ejl
Sample : il10chlor,42e,,pp 11319 L5.0
Misc : wg1865714,ical (Sig #1); ical (Sig #2)
ALS Vial : 20 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 18 12:32:13 2023
Quant Method : I:\PEST\Pest20\2023\231215ical\pest20_2023_12_15_ugL_ICAL.m
Quant Title : pest
QLast Update : Mon Dec 18 12:31:09 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	1.827	1.991	49562680	48052388	25.000M3	25.000M4
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
	Target Compounds						
3)	Hexachlorobe	0.000	0.000	0	0	N.D. d	N.D. d
4)	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6)	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8)	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9)	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10)	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11)	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12)	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13)	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14)	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17)	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18)	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22)	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest20\2023\231215ical\
Data File : 20231215i-20.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Dec 2023 08:30 pm
Operator : pest20:ejl
Sample : il10chlor,42e,,pp 11319 L5.0
Misc : wg1865714,ical (Sig #1); ical (Sig #2)
ALS Vial : 20 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 18 12:32:13 2023
Quant Method : I:\PEST\Pest20\2023\231215ical\pest20_2023_12_15_ugL_ICAL.m
Quant Title : pest
QLast Update : Mon Dec 18 12:31:09 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
23)		Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
24)		Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25)		Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26)		Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29)	l1	chlordane-1	3.219	3.711	348.3E6	335.3E6	5015.948	4928.272
30)	l1	chlordane-3	3.683	4.375	372.8E6	347.3E6	4818.724	4693.413
31)	l1	chlordane-4	4.283	5.087	1347.7E6	1193.0E6	5109.935	4993.696M3
32)	l1	chlordane-5	4.419	5.246	2069.1E6	975.3E6	5082.604M3	4980.932
	Sum	chlordane-1			4137.9E6	2850.9E6	NoCal	NoCal D
Average		chlordane-1					5006.803	4899.078
34)	l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35)	l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36)	l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37)	l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum	toxaphene-1			0	0	N.D.	N.D.
Average		toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

	Sum	toxaphene-1			0	0	N.D.	N.D.
Average		toxaphene-1					0.000	0.000

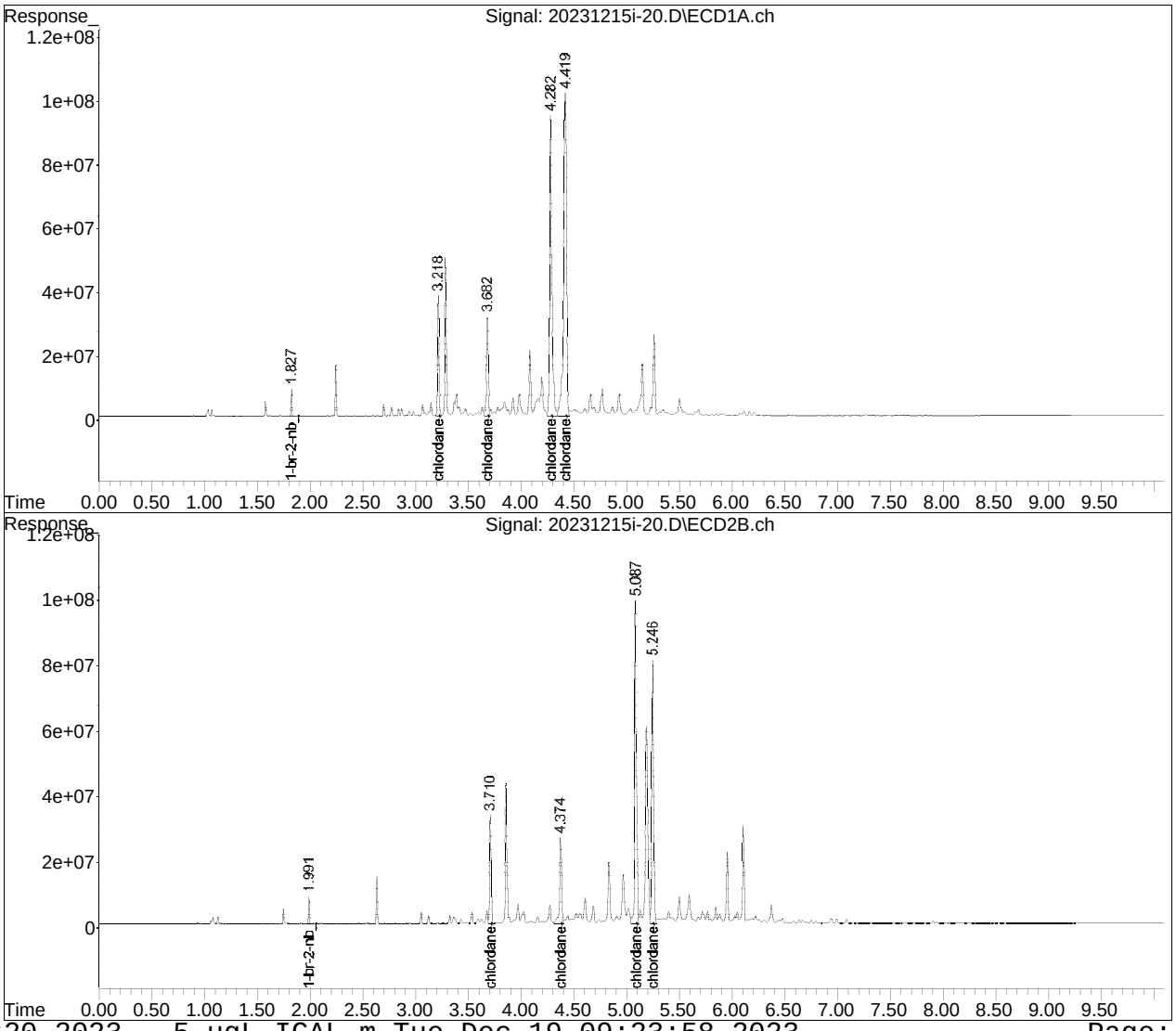
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest20\2023\231215ical\
Data File : 20231215i-20.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Dec 2023 08:30 pm
Operator : pest20:ejl
Sample : il10chlor,42e,,pp 11319 L5.0
Misc : wg1865714,ical (Sig #1); ical (Sig #2)
ALS Vial : 20 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 18 12:32:13 2023
Quant Method : I:\PEST\Pest20\2023\231215ical\pest20_2023_12_15_ugL_ICAL.m
Quant Title : pest
QLast Update : Mon Dec 18 12:31:09 2023
Response via : Initial Calibration
Integrator: ChemStation

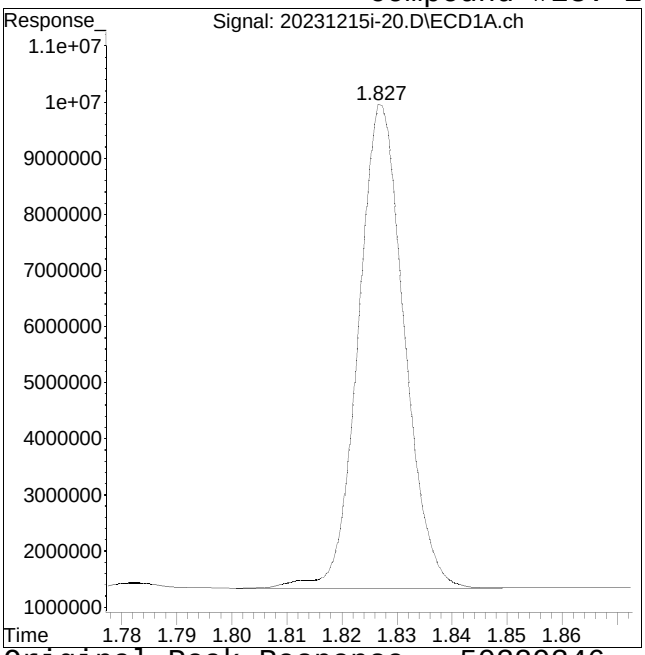
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

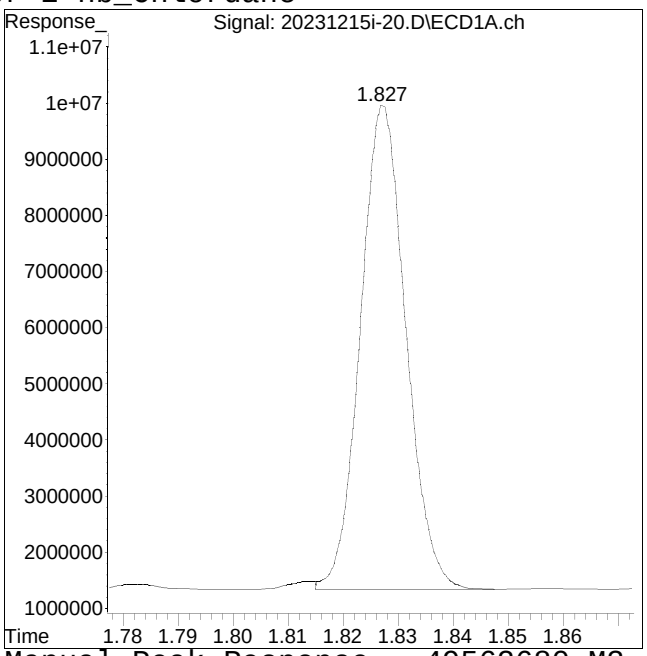


Manual Integration Report

Data Path : I:\PEST\Pest20\2023\231215QMethod : pest20_2023_12_15_ugL_IC
Data File : 20231215i-20.D Operator : pest20:ejl
Date Inj'd : 12/15/2023 8:30 pm Instrument : PEST 20
Sample : il10chlor,42e,,pp 11319 L5Quant Date : 12/18/2023 12:31 pm

Compound #28: 1-br-2-nb_Chlordane



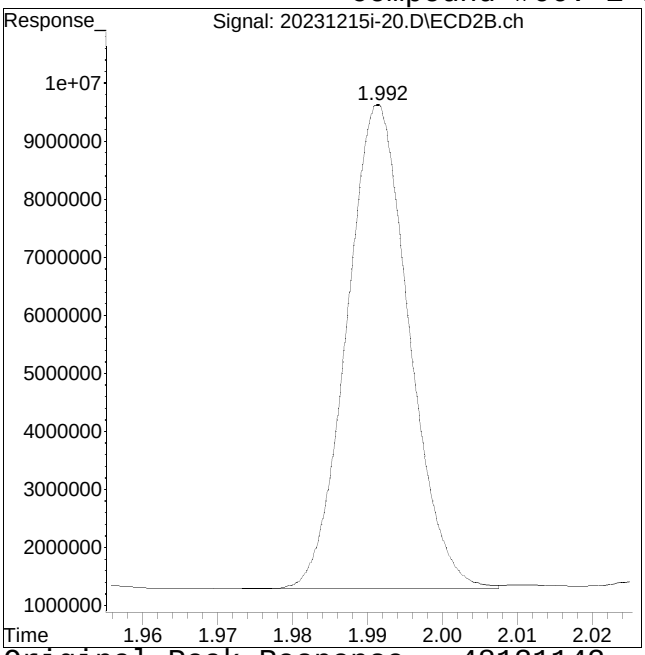


Original Peak Response = 50329346 Manual Peak Response = 49562680 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

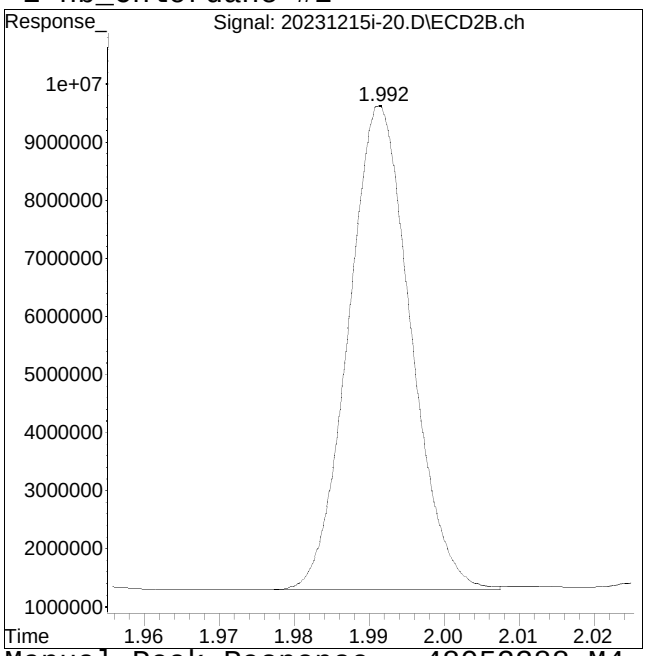
Manual Integration Report

Data Path : I:\PEST\Pest20\2023\231215QMethod : pest20_2023_12_15_ugL_IC
Data File : 20231215i-20.D Operator : pest20:ejl
Date Inj'd : 12/15/2023 8:30 pm Instrument : PEST 20
Sample : il10chlor,42e,,pp 11319 L5Quant Date : 12/18/2023 12:31 pm

Compound #66: 1-br-2-nb_Chlordane #2



Original Peak Response = 48131142

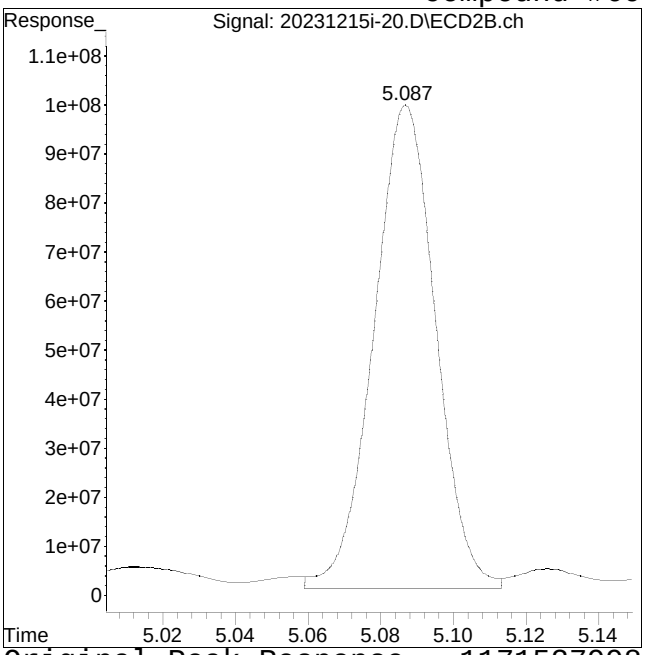


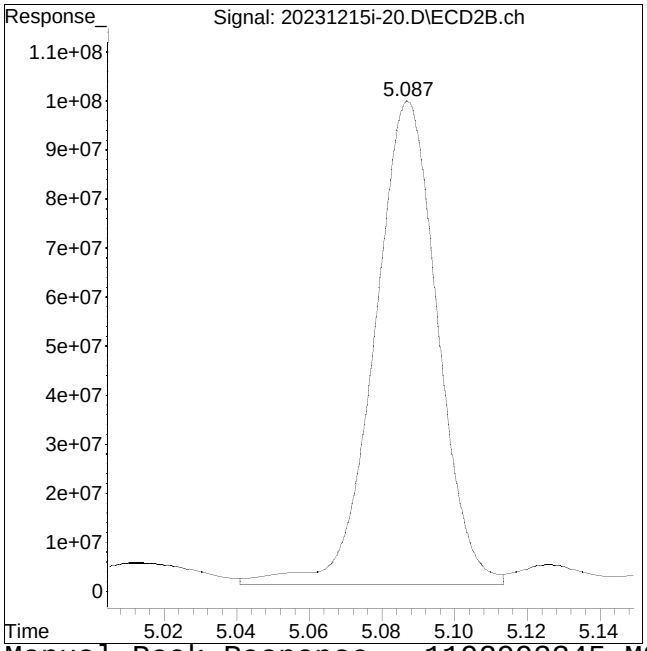
Manual Peak Response = 48052388 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2023\231215QMethod : pest20_2023_12_15_ugL_IC
Data File : 20231215i-20.D Operator : pest20:ejl
Date Inj'd : 12/15/2023 8:30 pm Instrument : PEST 20
Sample : il10chlor,42e,,pp 11319 L5Quant Date : 12/18/2023 12:31 pm

Compound #69: chlordane-4 #2



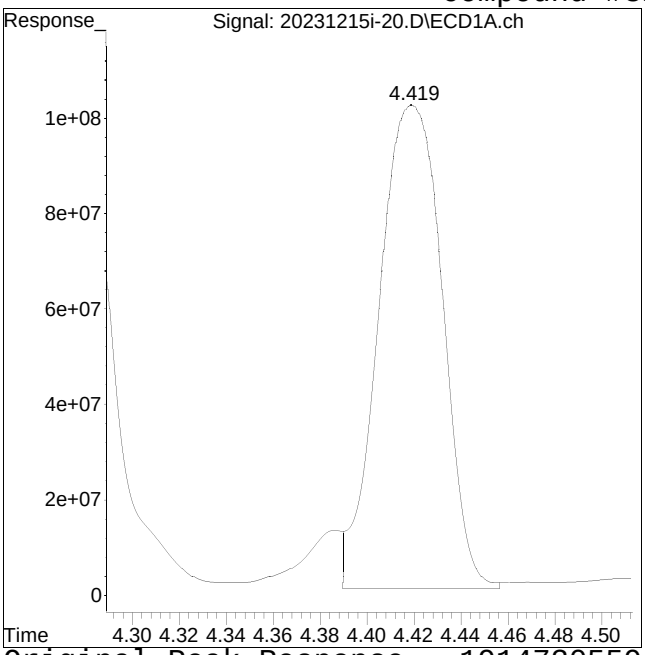


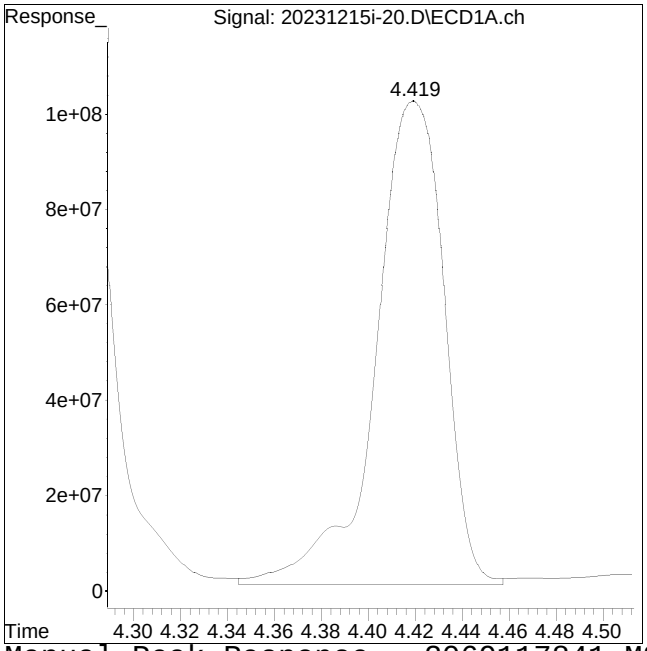
Original Peak Response = 1171527998 Manual Peak Response = 1192993345 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest20\2023\231215QMethod : pest20_2023_12_15_ugL_IC
Data File : 20231215i-20.D Operator : pest20:ejl
Date Inj'd : 12/15/2023 8:30 pm Instrument : PEST 20
Sample : il10chlor,42e,,pp 11319 L5Quant Date : 12/18/2023 12:31 pm

Compound #32: chlordane-5





Original Peak Response = 1914730559 Manual Peak Response = 2069117841 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Initial Calibration Verification

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest20\2023\231215ical\
Data File : 20231215i-21.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 15 Dec 2023 08:42 pm
Operator : pest20:ejl
Sample   : cicvchlor,42e,,pp 11437 L1.0ICV
Misc   : wg1865714,ical (Sig #1); ical (Sig #2)
ALS Vial : 21   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 18 12:42:21 2023
Quant Method : I:\PEST\Pest20\2023\231215ical\pest20_2023_12_15_ugL_ICAL.m
Quant Title : pest
QLast Update : Mon Dec 18 12:39:57 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
28	i	1-br-2-nb_Chlordane	^	1.000	1.000	0.0	104	0.00
29	l1	chlordane-1		*1000.000	883.080	11.7	89	0.00
30	l1	chlordane-3		*1000.000	962.873	3.7	93	0.00
31	l1	chlordane-4		*1000.000	930.331	7.0	94	0.00
32	l1	chlordane-5		*1000.000	1035.067	-3.5	104	0.00

Signal #2

28	i	1-br-2-nb_Chlordane	^	1.000	1.000	0.0	102	0.00
29	l1	chlordane-1		*1000.000	899.898	10.0	88	0.00
30	l1	chlordane-3		*1000.000	993.444	0.7	93	0.00
31	l1	chlordane-4		*1000.000	935.829	6.4	92	0.00
32	l1	chlordane-5		*1000.000	910.287	9.0	90	0.00

Evaluate Continuing Calibration Report - Not Founds

1	i	1-br-2-nb_Pesticides	^	1.000	1.000	0.0	0	-1.83#
2	s	2,4,5,6-Tetrachloro-m-xylen		1.132	0.000	100.0#	0#	-2.29#
3		Hexachlorobenzene		* 50.000	0.000	100.0#	0	-2.54#
4		alpha-BHC		1.400	0.000	100.0#	0#	-2.66#
5		gamma-BHC (lindane)		1.298	0.000	100.0#	0#	-2.90#
6		beta-BHC		* 50.000	0.000	100.0#	0	-2.97#
7		delta-BHC		* 50.000	0.000	100.0#	0	-3.11#
8		Heptachlor		* 50.000	0.000	100.0#	0	-3.29#
9		Aldrin		1.259	0.000	100.0#	0#	-3.56#
10		Alachlor		0.191	0.000	100.0#	0#	-3.70#
11		Chlorpyrifos		* 50.000	0.000	100.0#	0	-3.80#
12		Heptachlor Epoxide		* 50.000	0.000	100.0#	0	-4.15#
13		gamma-Chlordane (trans)		1.107	0.000	100.0#	0#	-4.28#

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest20\2023\231215ical\
Data File : 20231215i-21.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 15 Dec 2023 08:42 pm
Operator : pest20:ejl
Sample   : cicvchlor,42e,,pp 11437 L1.0ICV
Misc   : wg1865714,ical (Sig #1); ical (Sig #2)
ALS Vial : 21   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 18 12:42:21 2023
Quant Method : I:\PEST\Pest20\2023\231215ical\pest20_2023_12_15_ugL_ICAL.m
Quant Title : pest
QLast Update : Mon Dec 18 12:39:57 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
14		alpha-Chlordane (cis)	*	50.000	0.000	100.0#	0	-4.43#
15		4,4'-DDE		1.202	0.000	100.0#	0#	-4.53#
16		Endosulfan I	*	50.000	0.000	100.0#	0	-4.57#
17		Dieldrin		1.151	0.000	100.0#	0#	-4.85#
18		Endrin		1.119	0.000	100.0#	0#	-5.10#
19		4,4'-DDD		0.901	0.000	100.0#	0#	-5.21#
20		Endosulfan II		1.020	0.000	100.0#	0#	-5.33#
21		4,4'-DDT		0.888	0.000	100.0#	0#	-5.49#
22		Endrin Aldehyde	*	50.000	0.000	100.0#	0	-5.74#
23		Methoxychlor	*	50.000	0.000	100.0#	0	-5.97#
24		Mirex	*	50.000	0.000	100.0#	0	-6.03#
25		Endosulfan Sulfate		0.990	0.000	100.0#	0#	-6.13#
26		Endrin Ketone		1.046	0.000	100.0#	0#	-6.36#
27	s	Decachlorobiphenyl	*	50.000	0.000	100.0#	0	-7.16#
33	i	1-br-2-nb_Toxaphene	^	1.000	1.000	0.0	0	-1.83#
34	l2	toxaphene-1	*	0.038	0.000	100.0#	0#	-5.32#
35	l2	toxaphene-2	*	0.025	0.000	100.0#	0#	-5.86#
36	l2	toxaphene-4	*	0.022	0.000	100.0#	0#	-5.95#
37	l2	toxaphene-5	*	0.035	0.000	100.0#	0#	-6.04#

Signal #2

1	i	1-br-2-nb_Pesticides	^	1.000	1.000	0.0	0	-1.99#
2	s	2,4,5,6-Tetrachloro-m-xyl		1.221	0.000	100.0#	0#	-2.60#
3		Hexachlorobenzene	*	50.000	0.000	100.0#	0	-2.98#
4		alpha-BHC		1.460	0.000	100.0#	0#	-3.09#
5		gamma-BHC (lindane)		1.359	0.000	100.0#	0#	-3.42#
6		beta-BHC	*	50.000	0.000	100.0#	0	-3.50#
7		delta-BHC		1.352	0.000	100.0#	0#	-3.79#

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest20\2023\231215ical\
Data File : 20231215i-21.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 15 Dec 2023 08:42 pm
Operator : pest20:ejl
Sample   : cicvchlor,42e,,pp 11437 L1.0ICV
Misc   : wg1865714,ical (Sig #1); ical (Sig #2)
ALS Vial : 21   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 18 12:42:21 2023
Quant Method : I:\PEST\Pest20\2023\231215ical\pest20_2023_12_15_ugL_ICAL.m
Quant Title : pest
QLast Update : Mon Dec 18 12:39:57 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
8		Heptachlor		1.192	0.000	100.0#	0#	-3.86#
9		Aldrin		1.257	0.000	100.0#	0#	-4.21#
10		Alachlor		0.182	0.000	100.0#	0#	-4.09#
11		Chlorpyrifos		0.627	0.000	100.0#	0#	-4.47#
12		Heptachlor Epoxide	*	50.000	0.000	100.0#	0	-4.87#
13		gamma-Chlordane (trans)		1.083	0.000	100.0#	0#	-5.09#
14		alpha-Chlordane (cis)	*	50.000	0.000	100.0#	0	-5.25#
15		4,4'-DDE		1.188	0.000	100.0#	0#	-5.43#
16		Endosulfan I		1.136	0.000	100.0#	0#	-5.30#
17		Dieldrin		1.148	0.000	100.0#	0#	-5.58#
18		Endrin		1.141	0.000	100.0#	0#	-5.87#
19		4,4'-DDD		0.915	0.000	100.0#	0#	-5.98#
20		Endosulfan II		1.028	0.000	100.0#	0#	-6.06#
21		4,4'-DDT		0.924	0.000	100.0#	0#	-6.25#
22		Endrin Aldehyde	*	50.000	0.000	100.0#	0	-6.35#
23		Methoxychlor	*	50.000	0.000	100.0#	0	-6.80#
24		Mirex	*	50.000	0.000	100.0#	0	-6.96#
25		Endosulfan Sulfate		0.987	0.000	100.0#	0#	-6.58#
26		Endrin Ketone		1.066	0.000	100.0#	0#	-6.99#
27	s	Decachlorobiphenyl	*	50.000	0.000	100.0#	0	-7.87#
33	i	1-br-2-nb_Toxaphene	^	1.000	1.000	0.0	0	-1.99#
34	l2	toxaphene-1	*	0.020	0.000	100.0#	0#	-6.02#
35	l2	toxaphene-2	*	0.031	0.000	100.0#	0#	-6.05#
36	l2	toxaphene-4	*	0.035	0.000	100.0#	0#	-6.36#
37	l2	toxaphene-5	*	0.033	0.000	100.0#	0#	-6.76#

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0
(^) = ISTD area calculated using ICAL average

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest20\2023\231215ical\
Data File : 20231215i-21.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Dec 2023 08:42 pm
Operator : pest20:ejl
Sample : cicvchlor,42e,,pp 11437 L1.0ICV
Misc : wg1865714,ical (Sig #1); ical (Sig #2)
ALS Vial : 21 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 18 12:42:21 2023
Quant Method : I:\PEST\Pest20\2023\231215ical\pest20_2023_12_15_ugL_ICAL.m
Quant Title : pest
QLast Update : Mon Dec 18 12:39:57 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	1.828	1.992	50078057	47758988	25.000M4	25.000
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D.	N.D.
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
	Target Compounds						
3)	Hexachlorobe	0.000	0.000	0	0	N.D. d	N.D. d
4)	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6)	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8)	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9)	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10)	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11)	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12)	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13)	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14)	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17)	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18)	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22)	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d
23)	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest20\2023\231215ical\
Data File : 20231215i-21.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Dec 2023 08:42 pm
Operator : pest20:ejl
Sample : cicvchlor,42e,,pp 11437 L1.0ICV
Misc : wg1865714,ical (Sig #1); ical (Sig #2)
ALS Vial : 21 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 18 12:42:21 2023
Quant Method : I:\PEST\Pest20\2023\231215ical\pest20_2023_12_15_ugL_ICAL.m
Quant Title : pest
QLast Update : Mon Dec 18 12:39:57 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
24)	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25)	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26)	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	3.220	3.710	62245545	60510916	883.080	899.898
30) l1	chlordane-3	3.684	4.373	74102078	70839892	962.873	993.444M3
31) l1	chlordane-4	4.284	5.086	251.3E6	222.1E6	930.331	935.829M3
32) l1	chlordane-5	4.416	5.246	430.0E6	177.0E6	1035.067	910.287
Sum	chlordane-1			817.6E6	530.5E6	NoCal	NoCal D
Average	chlordane-1					952.838	934.865
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

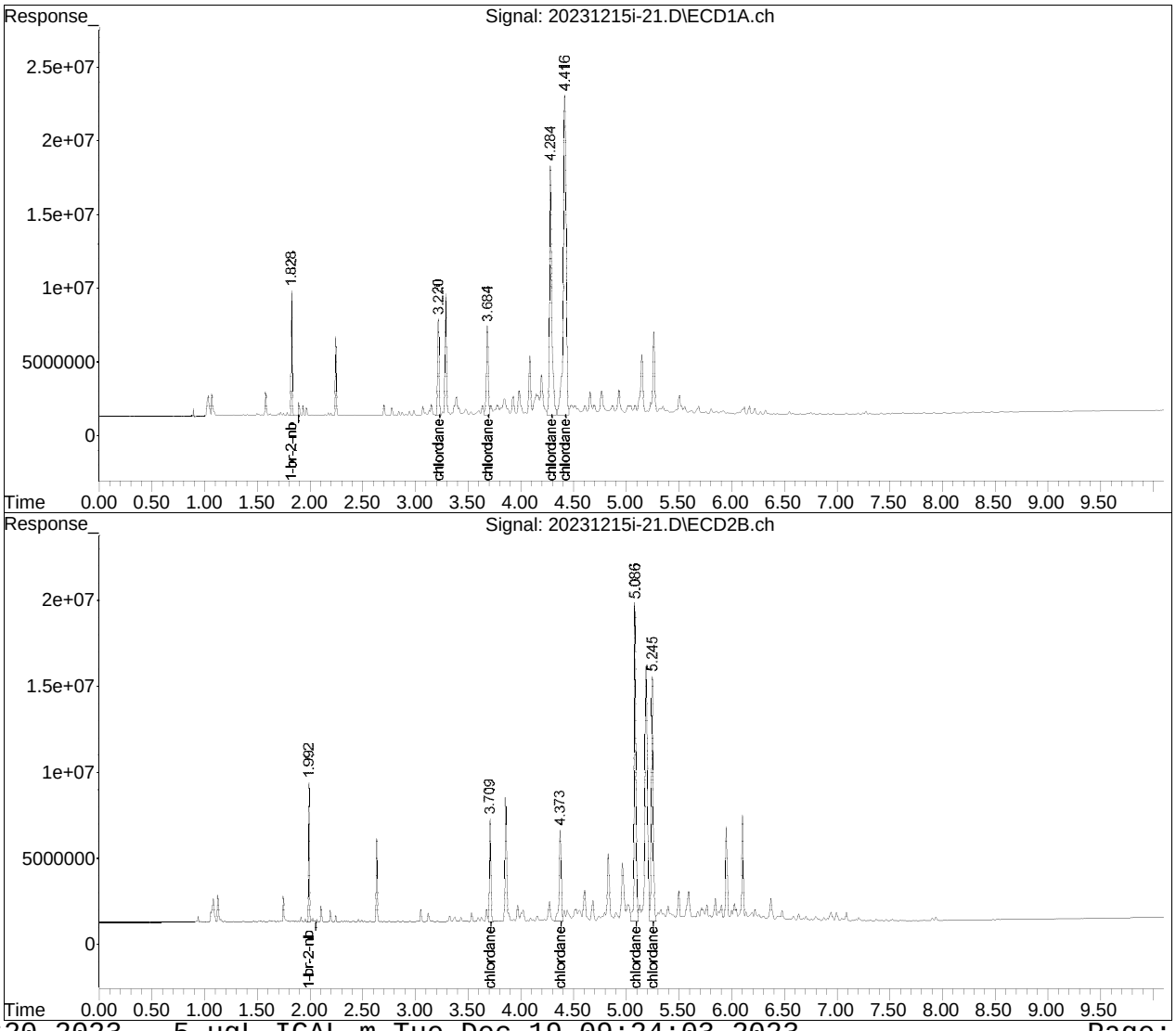
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest20\2023\231215ical\
Data File : 20231215i-21.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Dec 2023 08:42 pm
Operator : pest20:ejl
Sample : cicvchlor,42e,,pp 11437 L1.0ICV
Misc : wg1865714,ical (Sig #1); ical (Sig #2)
ALS Vial : 21 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 18 12:42:21 2023
Quant Method : I:\PEST\Pest20\2023\231215ical\pest20_2023_12_15_ugL_ICAL.m
Quant Title : pest
QLast Update : Mon Dec 18 12:39:57 2023
Response via : Initial Calibration
Integrator: ChemStation

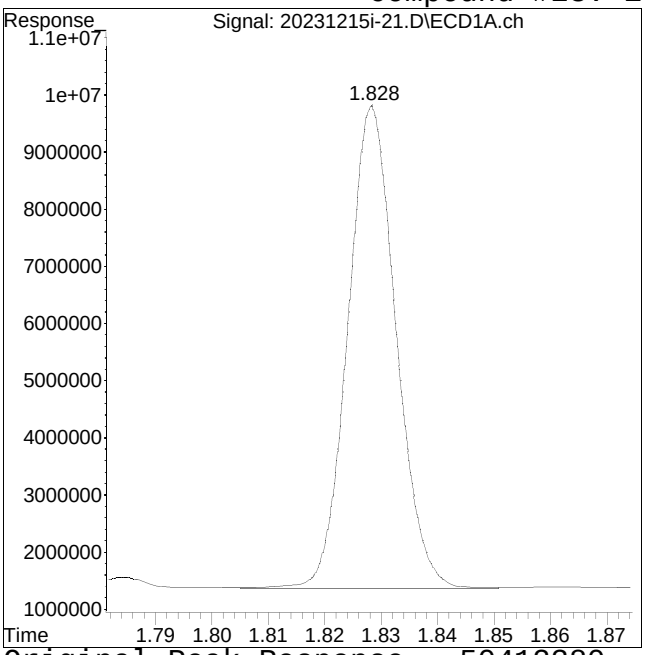
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

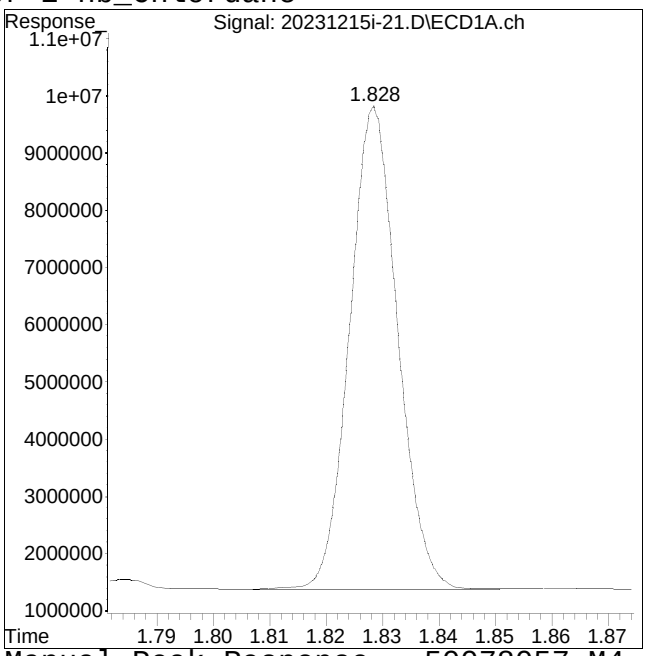


Manual Integration Report

Data Path : I:\PEST\Pest20\2023\231215QMethod : pest20_2023_12_15_ugL_IC
Data File : 20231215i-21.D Operator : pest20:ejl
Date Inj'd : 12/15/2023 8:42 pm Instrument : PEST 20
Sample : cicvchlor,42e,,pp 11437 L1Quant Date : 12/18/2023 12:41 pm

Compound #28: 1-br-2-nb_Chlordane



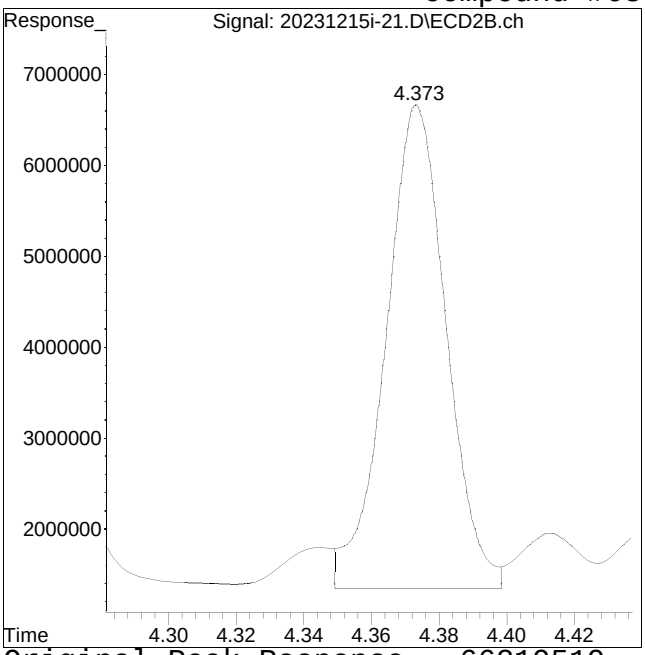


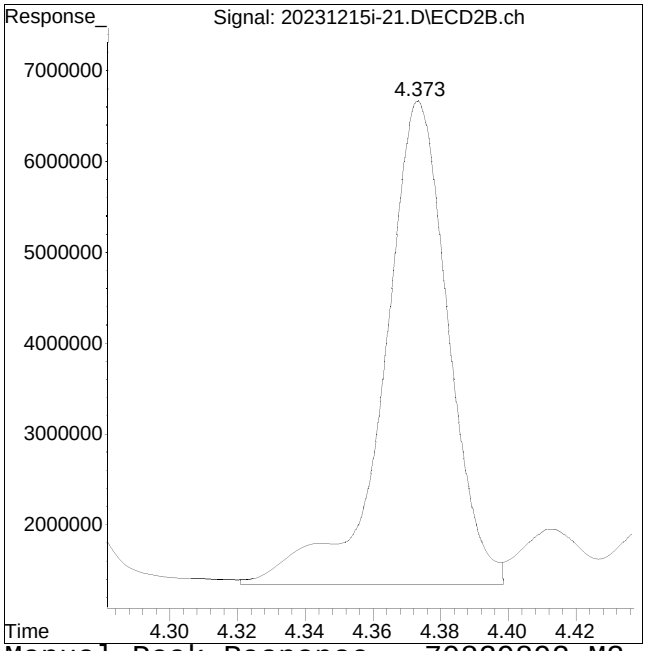
Original Peak Response = 50412380 Manual Peak Response = 50078057 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2023\231215QMethod : pest20_2023_12_15_ugL_IC
Data File : 20231215i-21.D Operator : pest20:ejl
Date Inj'd : 12/15/2023 8:42 pm Instrument : PEST 20
Sample : cicvchlor,42e,,pp 11437 L1Quant Date : 12/18/2023 12:41 pm

Compound #68: chlordane-3 #2



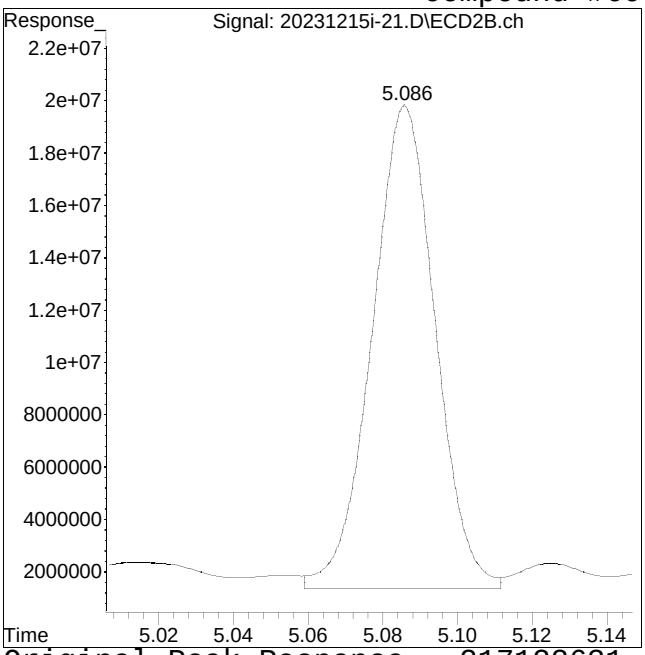


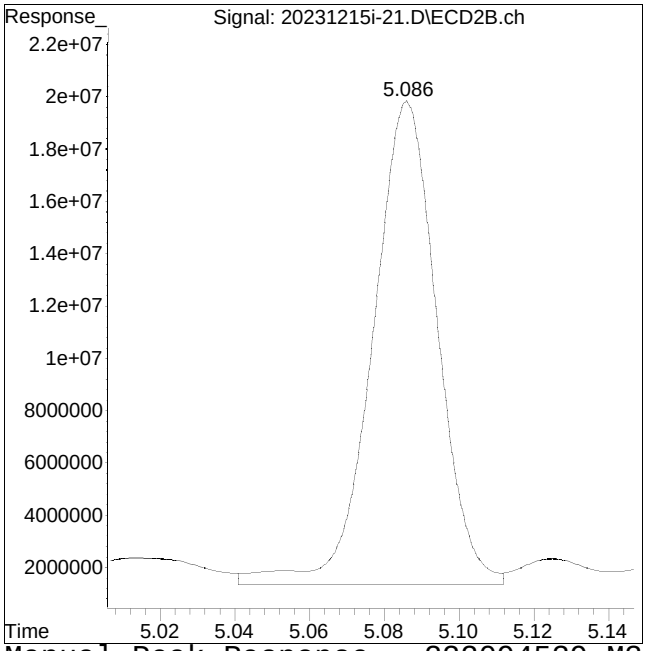
Original Peak Response = 66219519 Manual Peak Response = 70839892 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest20\2023\231215QMethod : pest20_2023_12_15_ugL_IC
Data File : 20231215i-21.D Operator : pest20:ejl
Date Inj'd : 12/15/2023 8:42 pm Instrument : PEST 20
Sample : cicvchlor,42e,,pp 11437 L1Quant Date : 12/18/2023 12:41 pm

Compound #69: chlordane-4 #2





Original Peak Response = 217122631 Manual Peak Response = 222094539 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest20\2023\231215ical\
Data File : 20231215i-22.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Dec 2023 08:55 pm
Operator : pest20:ejl
Sample : il3tox,42e,,pp 11328 L0.02
Misc : wg1865714,ical (Sig #1); ical (Sig #2)
ALS Vial : 22 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 18 12:45:38 2023
Quant Method : I:\PEST\Pest20\2023\231215ical\pest20_2023_12_15_ugL_ICAL.m
Quant Title : pest
QLast Update : Mon Dec 18 12:44:48 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	1.827	1.992	40274096	38927245	25.000M4	25.000
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D.	N.D.
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
	Target Compounds						
3)	Hexachlorobe	0.000	0.000	0	0	N.D.	N.D.
4)	alpha-BHC	0.000	0.000	0	0	N.D.	N.D.
5)	gamma-BHC (l	0.000	0.000	0	0	N.D.	N.D.
6)	beta-BHC	0.000	0.000	0	0	N.D.	N.D.
7)	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8)	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9)	Aldrin	0.000	0.000	0	0	N.D.	N.D.
10)	Alachlor	0.000	0.000	0	0	N.D.	N.D.
11)	Chlorpyrifos	0.000	0.000	0	0	N.D.	N.D.
12)	Heptachlor E	0.000	0.000	0	0	N.D.	N.D.
13)	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14)	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15)	4,4'-DDE	0.000	0.000	0	0	N.D.	N.D.
16)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17)	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18)	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22)	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d
23)	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest20\2023\231215ical\
Data File : 20231215i-22.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Dec 2023 08:55 pm
Operator : pest20:ejl
Sample : il3tox,42e,,pp 11328 L0.02
Misc : wg1865714,ical (Sig #1); ical (Sig #2)
ALS Vial : 22 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 18 12:45:38 2023
Quant Method : I:\PEST\Pest20\2023\231215ical\pest20_2023_12_15_ugL_ICAL.m
Quant Title : pest
QLast Update : Mon Dec 18 12:44:48 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
24)		Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25)		Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26)		Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29)	l1	chlordane-1	0.000	0.000	0	0	N.D.	N.D.
30)	l1	chlordane-3	0.000	0.000	0	0	N.D.	N.D.
31)	l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32)	l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum	chlordane-1			0	0	N.D.	N.D.
Average		chlordane-1					0.000	0.000
34)	l2	toxaphene-1	5.325	6.019	1339407	562213	23.137	17.483M4
35)	l2	toxaphene-2	5.853	6.049	759624	993197	17.915	20.649M4
36)	l2	toxaphene-4	5.953	6.356	801591	1102877	25.096	19.959
37)	l2	toxaphene-5	6.036	6.763	1308837	1112881	25.670	23.113
	Sum	toxaphene-1			4209459	3771168	91.818	81.205
Average		toxaphene-1					22.955	20.301

SemiQuant Compounds - Not Calibrated on this Instrument

	Sum	toxaphene-1			4209459	3771168	91.818	81.205
Average		toxaphene-1					22.955	20.301

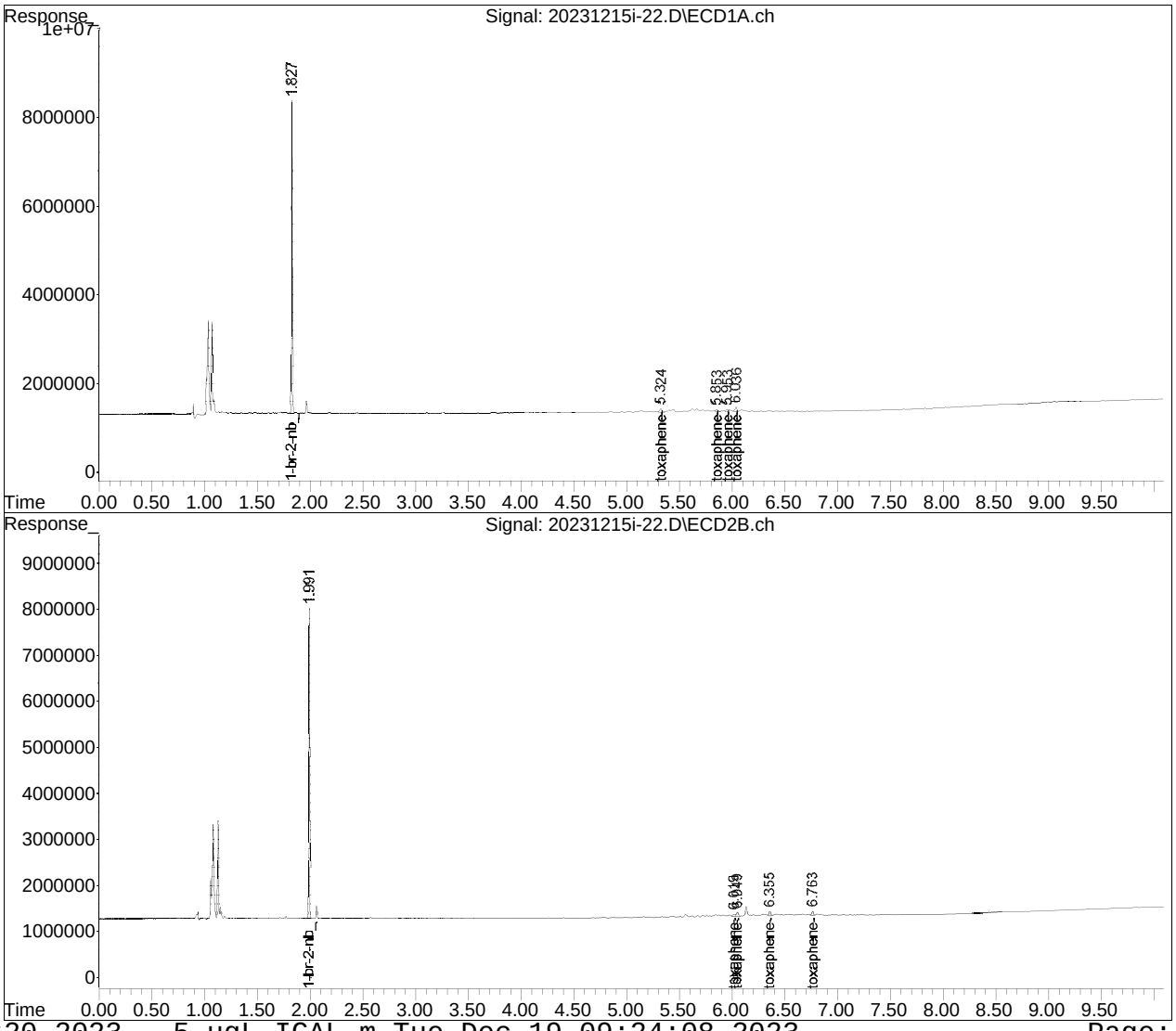
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest20\2023\231215ical\
Data File : 20231215i-22.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Dec 2023 08:55 pm
Operator : pest20:ejl
Sample : il3tox,42e,,pp 11328 L0.02
Misc : wg1865714,ical (Sig #1); ical (Sig #2)
ALS Vial : 22 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 18 12:45:38 2023
Quant Method : I:\PEST\Pest20\2023\231215ical\pest20_2023_12_15_ugL_ICAL.m
Quant Title : pest
QLast Update : Mon Dec 18 12:44:48 2023
Response via : Initial Calibration
Integrator: ChemStation

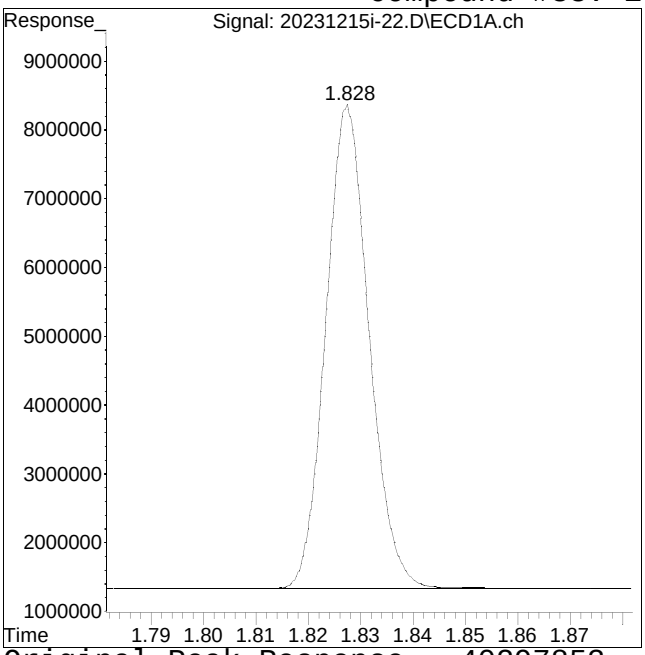
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



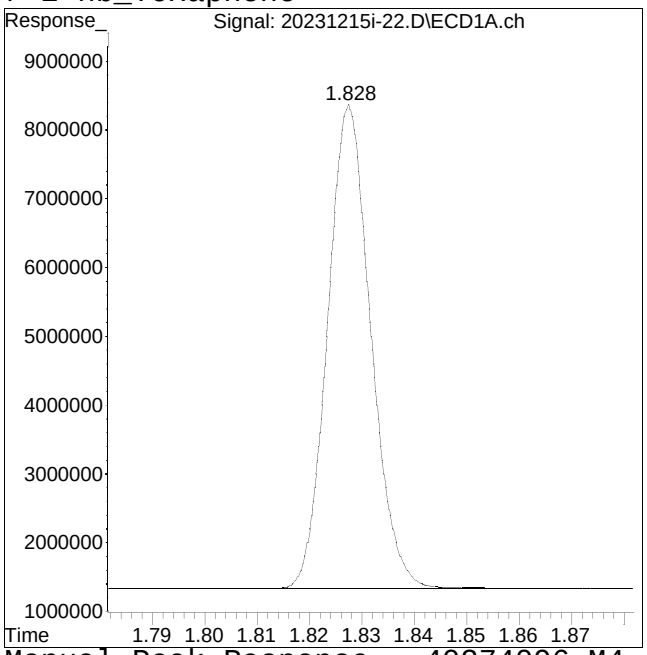
Manual Integration Report

Data Path : I:\PEST\Pest20\2023\231215QMethod : pest20_2023_12_15_ugL_IC
Data File : 20231215i-22.D Operator : pest20:ejl
Date Inj'd : 12/15/2023 8:55 pm Instrument : PEST 20
Sample : il3tox,42e,,pp 11328 L0.02Quant Date : 12/18/2023 12:44 pm

Compound #33: 1-br-2-nb_Toxaphene



Original Peak Response = 40297853



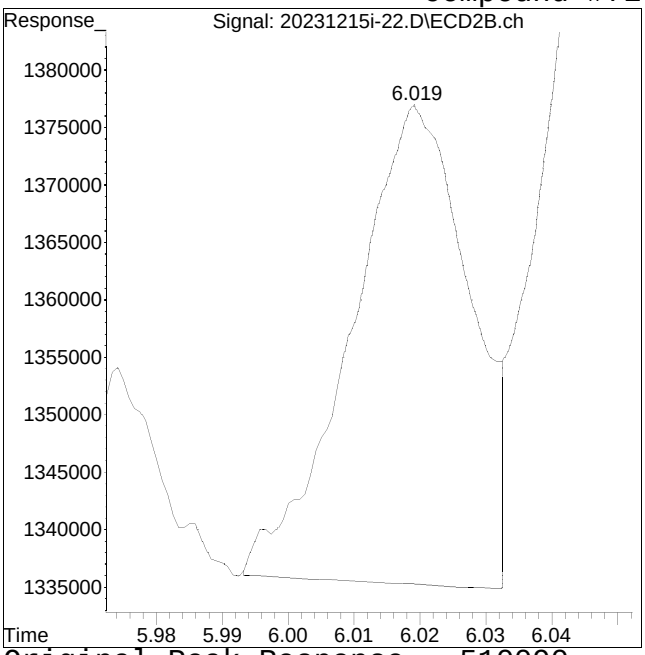
Manual Peak Response = 40274096 M4

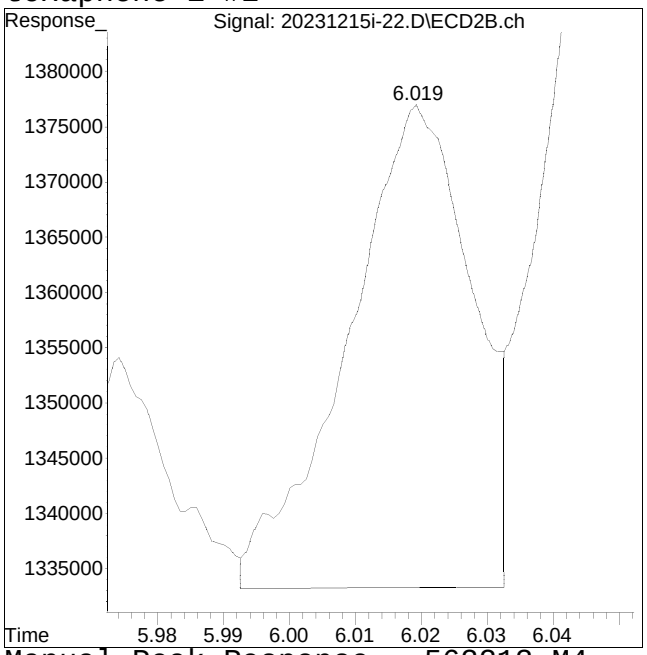
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2023\231215QMethod : pest20_2023_12_15_ugL_IC
Data File : 20231215i-22.D Operator : pest20:ejl
Date Inj'd : 12/15/2023 8:55 pm Instrument : PEST 20
Sample : il3tox,42e,,pp 11328 L0.02Quant Date : 12/18/2023 12:44 pm

Compound #72: toxaphene-1 #2



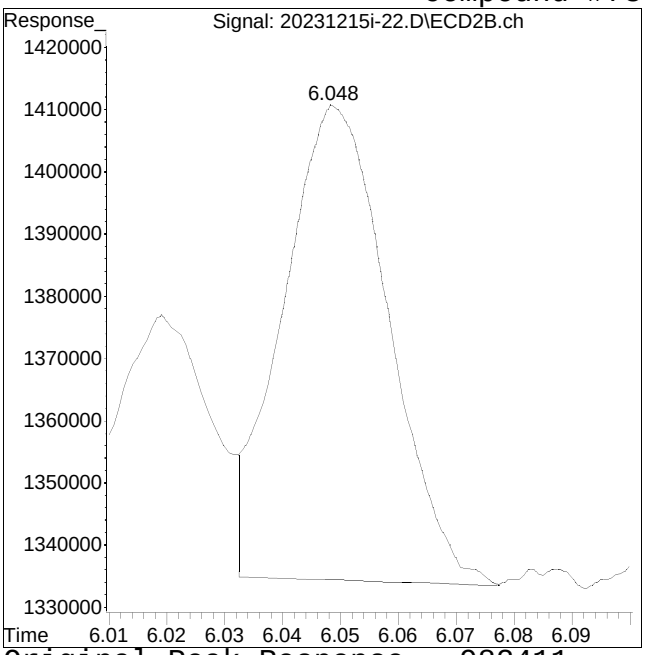


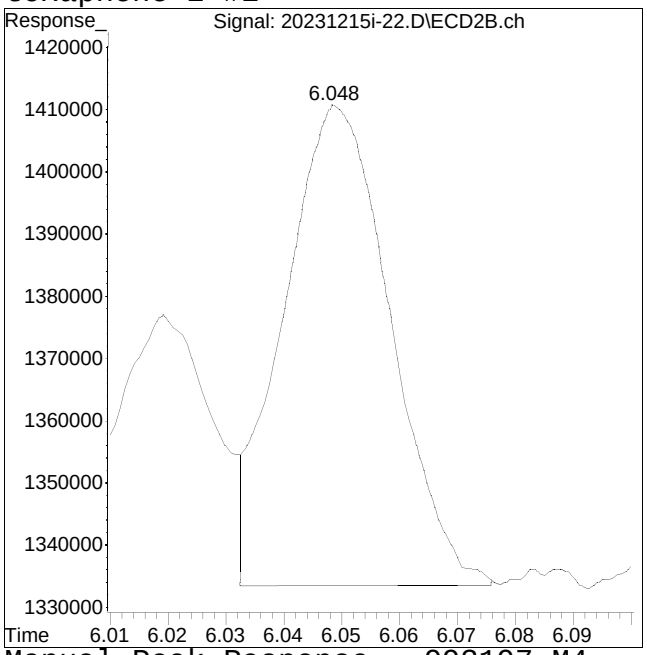
Original Peak Response = 510090 Manual Peak Response = 562213 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2023\231215QMethod : pest20_2023_12_15_ugL_IC
Data File : 20231215i-22.D Operator : pest20:ejl
Date Inj'd : 12/15/2023 8:55 pm Instrument : PEST 20
Sample : il3tox,42e,,pp 11328 L0.02Quant Date : 12/18/2023 12:44 pm

Compound #73: toxaphene-2 #2





Original Peak Response = 982411 Manual Peak Response = 993197 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest20\2023\231215ical\
Data File : 20231215i-23.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Dec 2023 09:07 pm
Operator : pest20:ejl
Sample : il8tox,42e,,pp 11327 L2.0
Misc : wg1865714,ical (Sig #1); ical (Sig #2)
ALS Vial : 23 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 18 12:43:07 2023
Quant Method : I:\PEST\Pest20\2023\231215ical\pest20_2023_12_15_ugL_ICAL.m
Quant Title : pest
QLast Update : Mon Dec 18 12:39:57 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	1.830	1.993	46546447	44488943	25.000	25.000
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
	Target Compounds						
3)	Hexachlorobe	0.000	0.000	0	0	N.D. d	N.D. d
4)	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6)	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8)	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9)	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10)	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11)	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12)	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13)	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14)	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17)	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18)	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22)	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d
23)	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest20\2023\231215ical\
Data File : 20231215i-23.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Dec 2023 09:07 pm
Operator : pest20:ejl
Sample : il8tox,42e,,pp 11327 L2.0
Misc : wg1865714,ical (Sig #1); ical (Sig #2)
ALS Vial : 23 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 18 12:43:07 2023
Quant Method : I:\PEST\Pest20\2023\231215ical\pest20_2023_12_15_ugL_ICAL.m
Quant Title : pest
QLast Update : Mon Dec 18 12:39:57 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
24)	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25)	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26)	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-1	5.324	6.019	135.3E6	72402595	NoCal	NoCal
35) l2	toxaphene-2	5.855	6.049	96346343	109.7E6	NoCal	NoCal
36) l2	toxaphene-4	5.954	6.357	72780384	124.8E6	NoCal	NoCal
37) l2	toxaphene-5	6.037	6.762	117.0E6	107.0E6	NoCal	NoCal
Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

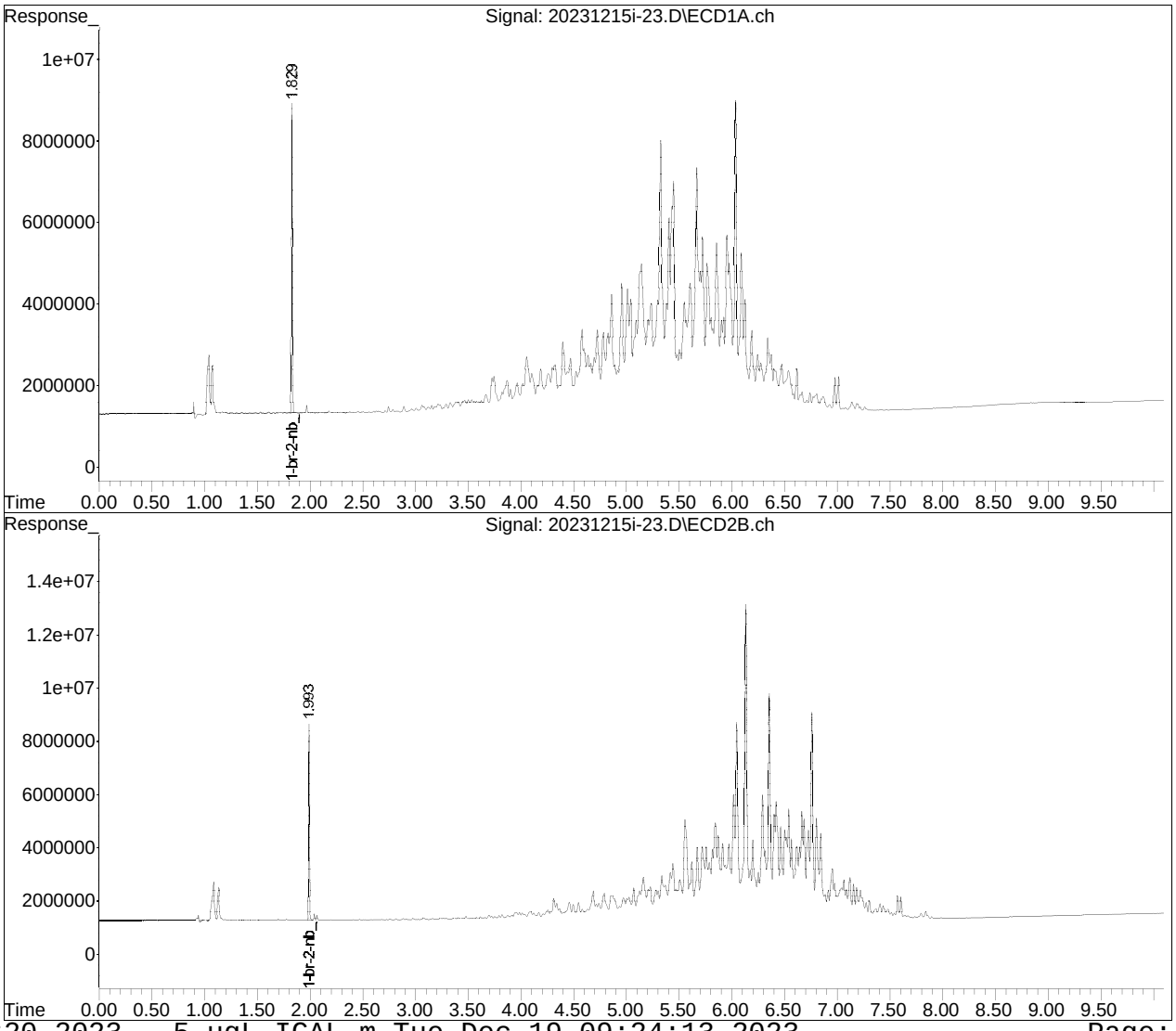
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest20\2023\231215ical\
Data File : 20231215i-23.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Dec 2023 09:07 pm
Operator : pest20:ejl
Sample : il8tox,42e,,pp 11327 L2.0
Misc : wg1865714,ical (Sig #1); ical (Sig #2)
ALS Vial : 23 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 18 12:43:07 2023
Quant Method : I:\PEST\Pest20\2023\231215ical\pest20_2023_12_15_ugL_ICAL.m
Quant Title : pest
QLast Update : Mon Dec 18 12:39:57 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Manual Integration Report

Data Path	: I:\PEST\Pest20\2023\231215	QMethod	: pest20_2023_12_15_ugL_IC
Data File	: 20231215i-23.D	Operator	: pest20:ejl
Date Inj'd	: 12/15/2023 9:07 pm	Instrument	: PEST 20
Sample	: il8tox,42e,,pp 11327 L2.0	Quant Date	: 12/18/2023 12:43 pm

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

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest20\2023\231215ical\
Data File : 20231215i-24.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Dec 2023 09:20 pm
Operator : pest20:ejl
Sample : il9tox,42e,,pp 11326 L5.0
Misc : wg1865714,ical (Sig #1); ical (Sig #2)
ALS Vial : 24 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 18 12:44:24 2023
Quant Method : I:\PEST\Pest20\2023\231215ical\pest20_2023_12_15_ugL_ICAL.m
Quant Title : pest
QLast Update : Mon Dec 18 12:44:00 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	1.829	1.992	47171820	43512545	25.000M4	25.000M4
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount 50.000	Range 30 - 150		Recovery =		0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount 50.000	Range 30 - 150		Recovery =		0.00%#	0.00%#
	Target Compounds						
3)	Hexachlorobe	0.000	0.000	0	0	N.D. d	N.D. d
4)	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6)	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8)	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9)	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10)	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11)	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12)	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13)	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14)	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17)	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18)	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22)	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest20\2023\231215ical\
Data File : 20231215i-24.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Dec 2023 09:20 pm
Operator : pest20:ejl
Sample : il9tox,42e,,pp 11326 L5.0
Misc : wg1865714,ical (Sig #1); ical (Sig #2)
ALS Vial : 24 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 18 12:44:24 2023
Quant Method : I:\PEST\Pest20\2023\231215ical\pest20_2023_12_15_ugL_ICAL.m
Quant Title : pest
QLast Update : Mon Dec 18 12:44:00 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
23)	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
24)	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25)	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26)	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-1	5.323	6.020	335.2E6	182.4E6	4888.125	5152.209
35) l2	toxaphene-2	5.855	6.049	252.5E6	269.5E6	5172.987	5024.139
36) l2	toxaphene-4	5.952	6.357	189.7E6	312.6E6	5144.299	5123.177
37) l2	toxaphene-5	6.037	6.762	300.8E6	276.6E6	5075.072	5284.866
Sum	toxaphene-1			1078.3E6	1041.0E6	20280.483	20584.391
Average	toxaphene-1					5070.121	5146.098

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			1078.3E6	1041.0E6	20280.483	20584.391
Average	toxaphene-1					5070.121	5146.098

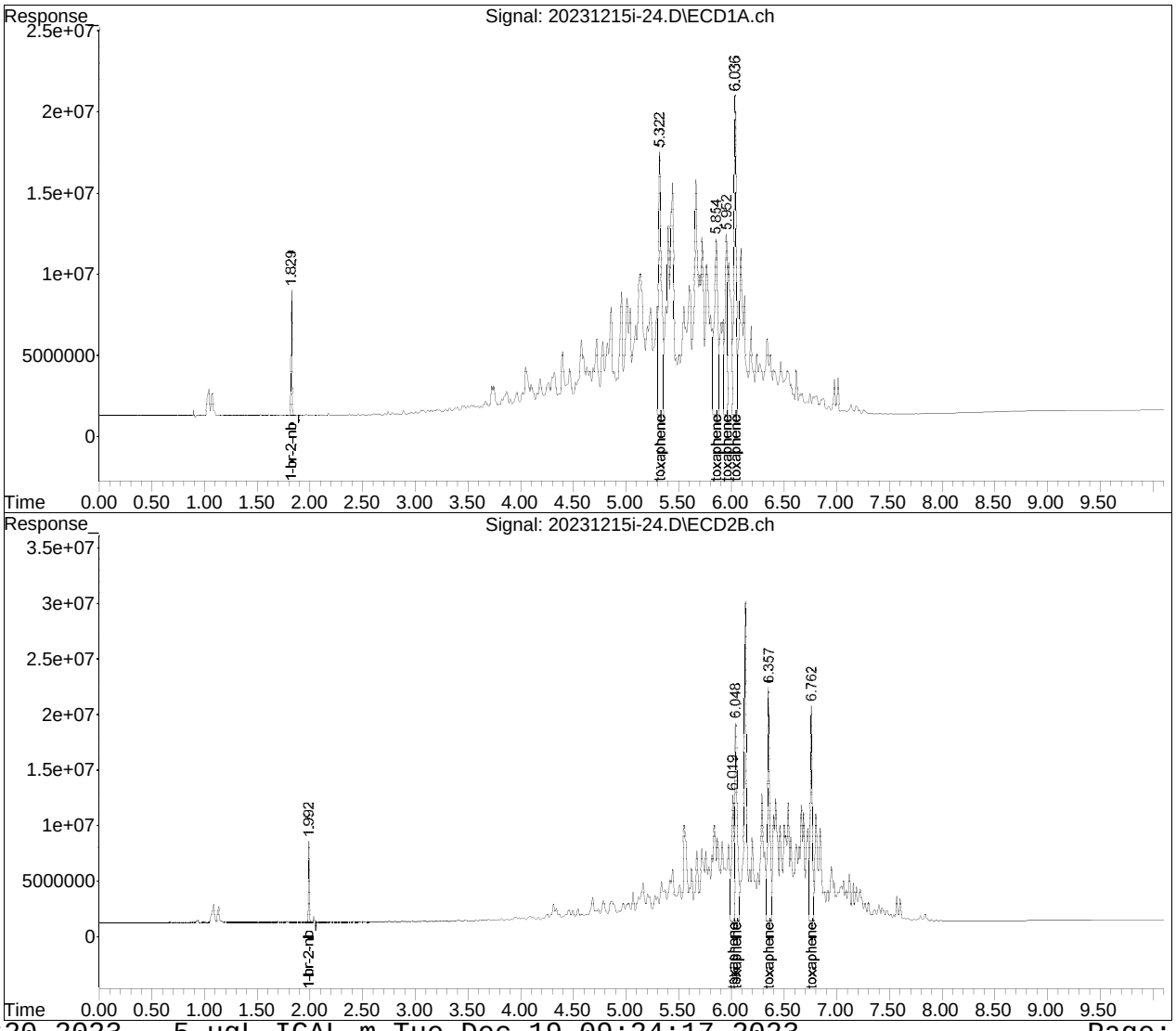
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest20\2023\231215ical\
Data File : 20231215i-24.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Dec 2023 09:20 pm
Operator : pest20:ejl
Sample : il9tox,42e,,pp 11326 L5.0
Misc : wg1865714,ical (Sig #1); ical (Sig #2)
ALS Vial : 24 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 18 12:44:24 2023
Quant Method : I:\PEST\Pest20\2023\231215ical\pest20_2023_12_15_ugL_ICAL.m
Quant Title : pest
QLast Update : Mon Dec 18 12:44:00 2023
Response via : Initial Calibration
Integrator: ChemStation

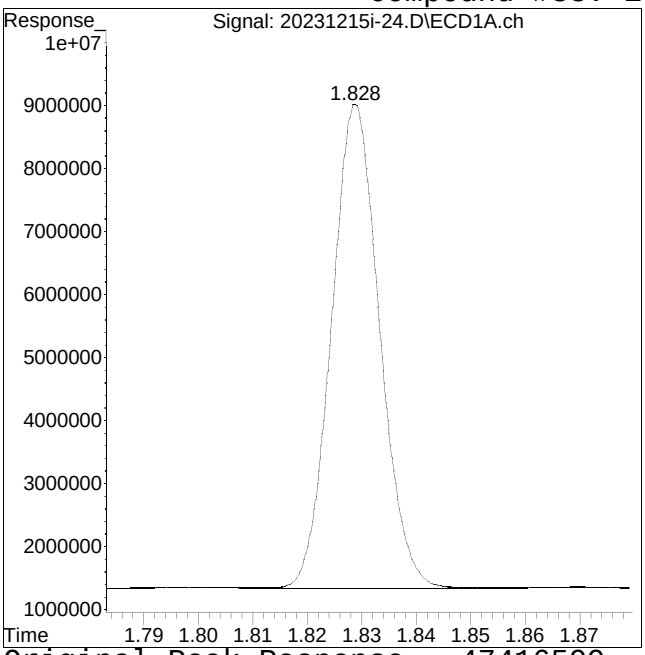
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

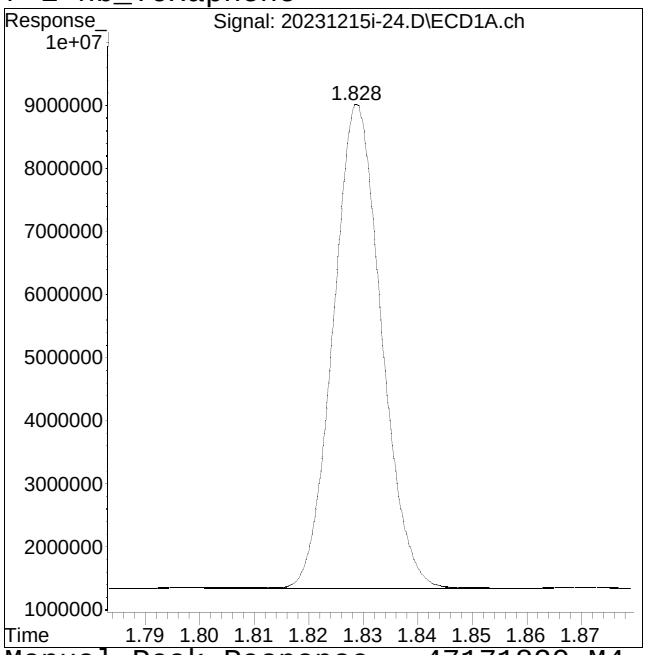


Manual Integration Report

Data Path : I:\PEST\Pest20\2023\231215QMethod : pest20_2023_12_15_ugL_IC
Data File : 20231215i-24.D Operator : pest20:ejl
Date Inj'd : 12/15/2023 9:20 pm Instrument : PEST 20
Sample : il9tox,42e,,pp 11326 L5.0 Quant Date : 12/18/2023 12:44 pm

Compound #33: 1-br-2-nb_Toxaphene



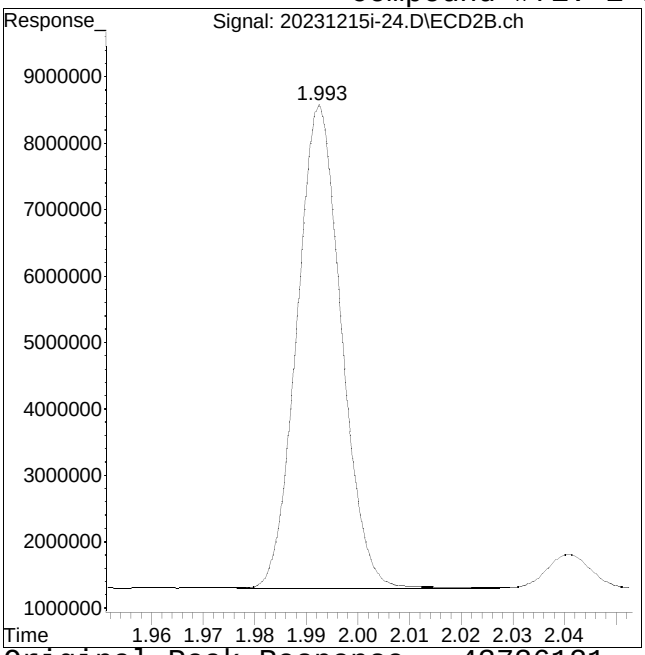


Original Peak Response = 47416599 Manual Peak Response = 47171820 M4
M4 = Poor automated baseline construction.

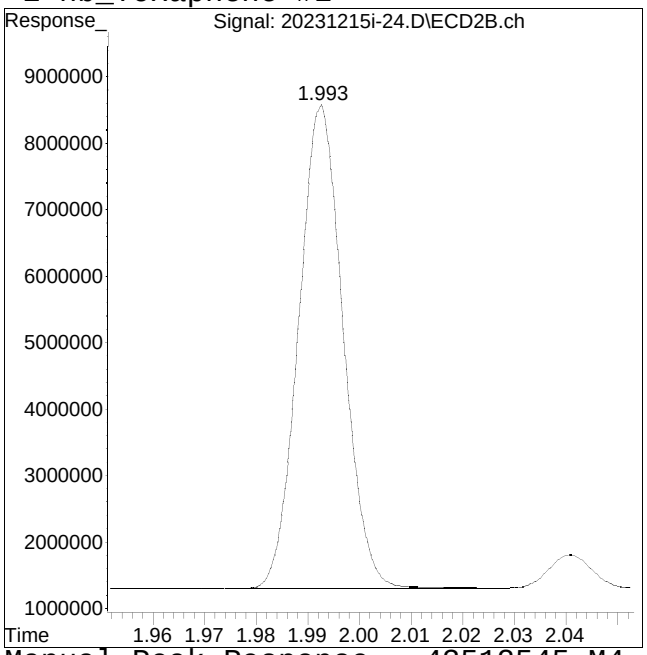
Manual Integration Report

Data Path : I:\PEST\Pest20\2023\231215QMethod : pest20_2023_12_15_ugL_IC
Data File : 20231215i-24.D Operator : pest20:ejl
Date Inj'd : 12/15/2023 9:20 pm Instrument : PEST 20
Sample : il9tox,42e,,pp 11326 L5.0 Quant Date : 12/18/2023 12:44 pm

Compound #71: 1-br-2-nb_Toxaphene #2



Original Peak Response = 43736121



Manual Peak Response = 43512545 M4

M4 = Poor automated baseline construction.

Initial Calibration Verification

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest20\2023\231215ical\
Data File : 20231215i-25.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 15 Dec 2023 09:32 pm
Operator : pest20:ejl
Sample   : cicvtox,42e,,pp 11438 L2.0ICV
Misc   : wg1865714,ical (Sig #1); ical (Sig #2)
ALS Vial : 25   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 18 12:48:07 2023
Quant Method : I:\PEST\Pest20\2023\231215ical\pest20_2023_12_15_ugL_ICAL.m
Quant Title : pest
QLast Update : Mon Dec 18 12:48:05 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
33	i	1-br-2-nb_Toxaphene	^	1.000	1.000	0.0	111	0.00
34	l2	toxaphene-1		*2000.000	1800.923	10.0	95	0.00
35	l2	toxaphene-2		*2000.000	1863.242	6.8	102	0.00
36	l2	toxaphene-4		*2000.000	1701.292	14.9	93	0.00
37	l2	toxaphene-5		*2000.000	1796.600	10.2	97	0.00

Signal #2

33	i	1-br-2-nb_Toxaphene	^	1.000	1.000	0.0	110	0.00
34	l2	toxaphene-1		*2000.000	1835.009	8.2	98	0.00
35	l2	toxaphene-2		*2000.000	1861.569	6.9	98	0.00
36	l2	toxaphene-4		*2000.000	1738.223	13.1	93	0.00
37	l2	toxaphene-5		*2000.000	1825.794	8.7	100	0.00

Evaluate Continuing Calibration Report - Not Founds

1	i	1-br-2-nb_Pesticides	^	1.000	1.000	0.0	0	-1.83#
2	s	2,4,5,6-Tetrachloro-m-xylen		1.132	0.000	100.0#	0#	-2.29#
3		Hexachlorobenzene	*	50.000	0.000	100.0#	0	-2.54#
4		alpha-BHC		1.400	0.000	100.0#	0#	-2.66#
5		gamma-BHC (lindane)		1.298	0.000	100.0#	0#	-2.90#
6		beta-BHC	*	50.000	0.000	100.0#	0	-2.97#
7		delta-BHC	*	50.000	0.000	100.0#	0	-3.11#
8		Heptachlor	*	50.000	0.000	100.0#	0	-3.29#
9		Aldrin		1.259	0.000	100.0#	0#	-3.56#
10		Alachlor		0.191	0.000	100.0#	0#	-3.70#
11		Chlorpyrifos	*	50.000	0.000	100.0#	0	-3.80#
12		Heptachlor Epoxide	*	50.000	0.000	100.0#	0	-4.15#
13		gamma-Chlordane (trans)		1.107	0.000	100.0#	0#	-4.28#

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest20\2023\231215ical\
Data File : 20231215i-25.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 15 Dec 2023 09:32 pm
Operator : pest20:ejl
Sample   : cicvtox,42e,,pp 11438 L2.0ICV
Misc   : wg1865714,ical (Sig #1); ical (Sig #2)
ALS Vial : 25   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 18 12:48:07 2023
Quant Method : I:\PEST\Pest20\2023\231215ical\pest20_2023_12_15_ugL_ICAL.m
Quant Title : pest
QLast Update : Mon Dec 18 12:48:05 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
14		alpha-Chlordane (cis)	*	50.000	0.000	100.0#	0	-4.43#
15		4,4'-DDE		1.202	0.000	100.0#	0#	-4.53#
16		Endosulfan I	*	50.000	0.000	100.0#	0	-4.57#
17		Dieldrin		1.151	0.000	100.0#	0#	-4.85#
18		Endrin		1.119	0.000	100.0#	0#	-5.10#
19		4,4'-DDD		0.901	0.000	100.0#	0#	-5.21#
20		Endosulfan II		1.020	0.000	100.0#	0#	-5.33#
21		4,4'-DDT		0.888	0.000	100.0#	0#	-5.49#
22		Endrin Aldehyde	*	50.000	0.000	100.0#	0	-5.74#
23		Methoxychlor	*	50.000	0.000	100.0#	0	-5.97#
24		Mirex	*	50.000	0.000	100.0#	0	-6.03#
25		Endosulfan Sulfate		0.990	0.000	100.0#	0#	-6.13#
26		Endrin Ketone		1.046	0.000	100.0#	0#	-6.36#
27	s	Decachlorobiphenyl	*	50.000	0.000	100.0#	0	-7.16#
28	i	1-br-2-nb_Chlordane	^	1.000	1.000	0.0	0	-1.83#
29	l1	chlordane-1	*	1000.000	0.000	100.0#	0	-3.22#
30	l1	chlordane-3	*	1000.000	0.000	100.0#	0	-3.68#
31	l1	chlordane-4	*	1000.000	0.000	100.0#	0	-4.28#
32	l1	chlordane-5	*	1000.000	0.000	100.0#	0	-4.42#

Signal #2

1	i	1-br-2-nb_Pesticides	^	1.000	1.000	0.0	0	-1.99#
2	s	2,4,5,6-Tetrachloro-m-xyl		1.221	0.000	100.0#	0#	-2.60#
3		Hexachlorobenzene	*	50.000	0.000	100.0#	0	-2.98#
4		alpha-BHC		1.460	0.000	100.0#	0#	-3.09#
5		gamma-BHC (lindane)		1.359	0.000	100.0#	0#	-3.42#
6		beta-BHC	*	50.000	0.000	100.0#	0	-3.50#
7		delta-BHC		1.352	0.000	100.0#	0#	-3.79#

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest20\2023\231215ical\
Data File : 20231215i-25.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 15 Dec 2023 09:32 pm
Operator : pest20:ejl
Sample   : cicvtox,42e,,pp 11438 L2.0ICV
Misc   : wg1865714,ical (Sig #1); ical (Sig #2)
ALS Vial : 25   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 18 12:48:07 2023
Quant Method : I:\PEST\Pest20\2023\231215ical\pest20_2023_12_15_ugL_ICAL.m
Quant Title : pest
QLast Update : Mon Dec 18 12:48:05 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
8		Heptachlor		1.192	0.000	100.0#	0#	-3.86#
9		Aldrin		1.257	0.000	100.0#	0#	-4.21#
10		Alachlor		0.182	0.000	100.0#	0#	-4.09#
11		Chlorpyrifos		0.627	0.000	100.0#	0#	-4.47#
12		Heptachlor Epoxide	*	50.000	0.000	100.0#	0	-4.87#
13		gamma-Chlordane (trans)		1.083	0.000	100.0#	0#	-5.09#
14		alpha-Chlordane (cis)	*	50.000	0.000	100.0#	0	-5.25#
15		4,4'-DDE		1.188	0.000	100.0#	0#	-5.43#
16		Endosulfan I		1.136	0.000	100.0#	0#	-5.30#
17		Dieldrin		1.148	0.000	100.0#	0#	-5.58#
18		Endrin		1.141	0.000	100.0#	0#	-5.87#
19		4,4'-DDD		0.915	0.000	100.0#	0#	-5.98#
20		Endosulfan II		1.028	0.000	100.0#	0#	-6.06#
21		4,4'-DDT		0.924	0.000	100.0#	0#	-6.25#
22		Endrin Aldehyde	*	50.000	0.000	100.0#	0	-6.35#
23		Methoxychlor	*	50.000	0.000	100.0#	0	-6.80#
24		Mirex	*	50.000	0.000	100.0#	0	-6.96#
25		Endosulfan Sulfate		0.987	0.000	100.0#	0#	-6.58#
26		Endrin Ketone		1.066	0.000	100.0#	0#	-6.99#
27	s	Decachlorobiphenyl	*	50.000	0.000	100.0#	0	-7.87#
28	i	1-br-2-nb_Chlordane	^	1.000	1.000	0.0	0	-1.99#
29	l1	chlordane-1	*	1000.000	0.000	100.0#	0	-3.71#
30	l1	chlordane-3	*	1000.000	0.000	100.0#	0	-4.37#
31	l1	chlordane-4	*	1000.000	0.000	100.0#	0	-5.09#
32	l1	chlordane-5	*	1000.000	0.000	100.0#	0	-5.25#

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0
(^) = ISTD area calculated using ICAL average

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest20\2023\231215ical\
Data File : 20231215i-25.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Dec 2023 09:32 pm
Operator : pest20:ejl
Sample : cicvtox,42e,,pp 11438 L2.0ICV
Misc : wg1865714,ical (Sig #1); ical (Sig #2)
ALS Vial : 25 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 18 12:48:07 2023
Quant Method : I:\PEST\Pest20\2023\231215ical\pest20_2023_12_15_ugL_ICAL.m
Quant Title : pest
QLast Update : Mon Dec 18 12:48:05 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	1.829	1.993	49794524	46639281	25.000M4	25.000M4
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount 50.000	Range 30 - 150		Recovery =		0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount 50.000	Range 30 - 150		Recovery =		0.00%#	0.00%#
	Target Compounds						
3)	Hexachlorobe	0.000	0.000	0	0	N.D. d	N.D. d
4)	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6)	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8)	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9)	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10)	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11)	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12)	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13)	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14)	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17)	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18)	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22)	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest20\2023\231215ical\
Data File : 20231215i-25.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Dec 2023 09:32 pm
Operator : pest20:ejl
Sample : cicvtox,42e,,pp 11438 L2.0ICV
Misc : wg1865714,ical (Sig #1); ical (Sig #2)
ALS Vial : 25 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 18 12:48:07 2023
Quant Method : I:\PEST\Pest20\2023\231215ical\pest20_2023_12_15_ugL_ICAL.m
Quant Title : pest
QLast Update : Mon Dec 18 12:48:05 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
23)	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
24)	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25)	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26)	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-1	5.323	6.021	128.4E6	71103937	1800.923	1835.009
35) l2	toxaphene-2	5.854	6.049	98336572	107.4E6	1863.242	1861.569
36) l2	toxaphene-4	5.952	6.358	67694549	115.7E6	1701.292	1738.223
37) l2	toxaphene-5	6.036	6.763	113.8E6	106.7E6	1796.600	1825.794
Sum	toxaphene-1			408.2E6	400.8E6	7162.056	7260.596
Average	toxaphene-1					1790.514	1815.149

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			408.2E6	400.8E6	7162.056	7260.596
Average	toxaphene-1					1790.514	1815.149

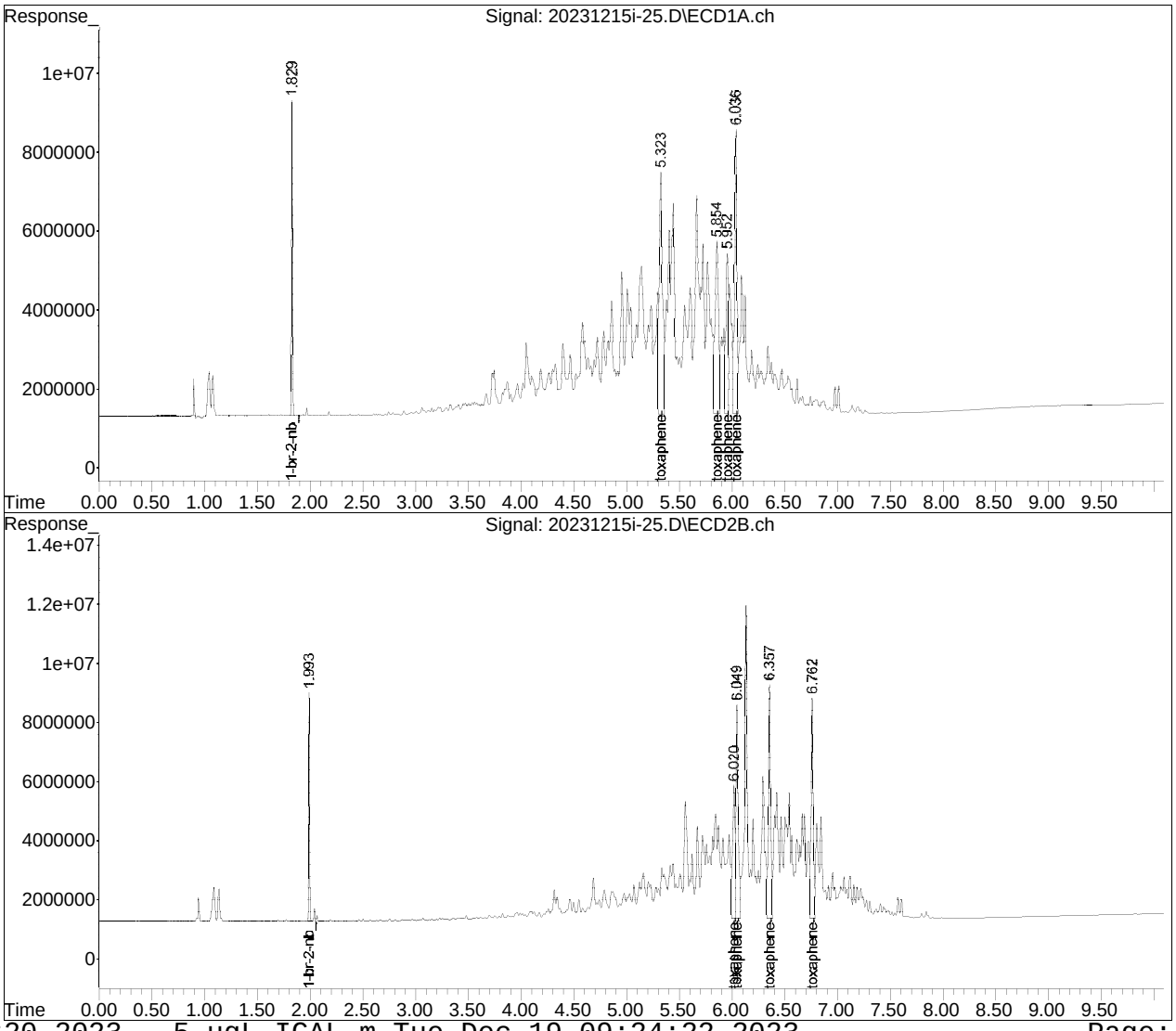
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest20\2023\231215ical\
Data File : 20231215i-25.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Dec 2023 09:32 pm
Operator : pest20:ejl
Sample : cicvtox,42e,,pp 11438 L2.0ICV
Misc : wg1865714,ical (Sig #1); ical (Sig #2)
ALS Vial : 25 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 18 12:48:07 2023
Quant Method : I:\PEST\Pest20\2023\231215ical\pest20_2023_12_15_ugL_ICAL.m
Quant Title : pest
QLast Update : Mon Dec 18 12:48:05 2023
Response via : Initial Calibration
Integrator: ChemStation

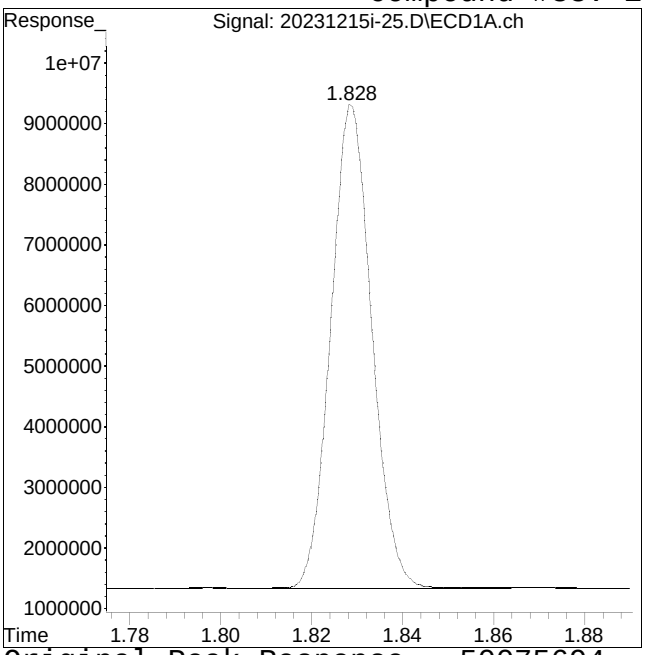
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

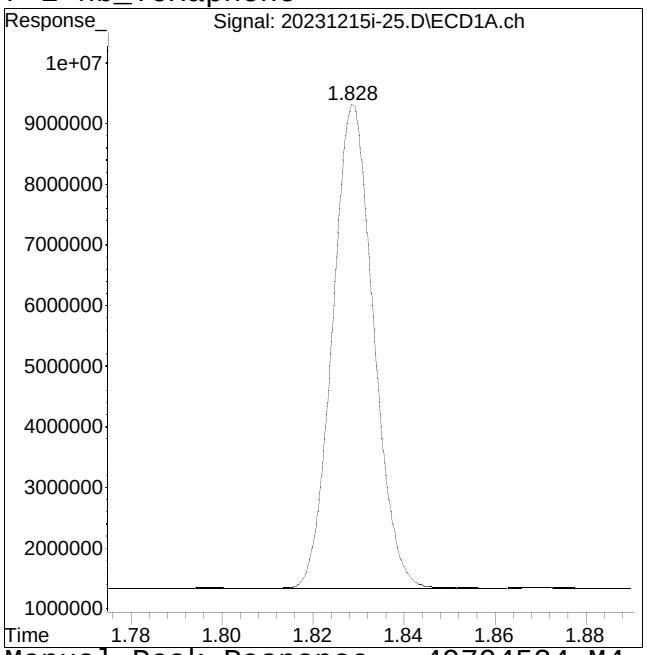


Manual Integration Report

Data Path : I:\PEST\Pest20\2023\231215QMethod : pest20_2023_12_15_ugL_IC
Data File : 20231215i-25.D Operator : pest20:ejl
Date Inj'd : 12/15/2023 9:32 pm Instrument : PEST 20
Sample : cicvtox,42e,,pp 11438 L2.0Quant Date : 12/18/2023 12:48 pm

Compound #33: 1-br-2-nb_Toxaphene



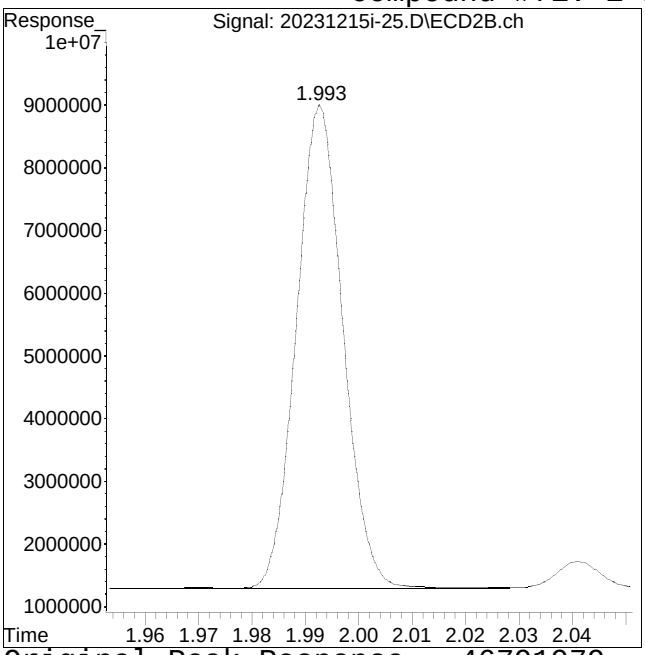


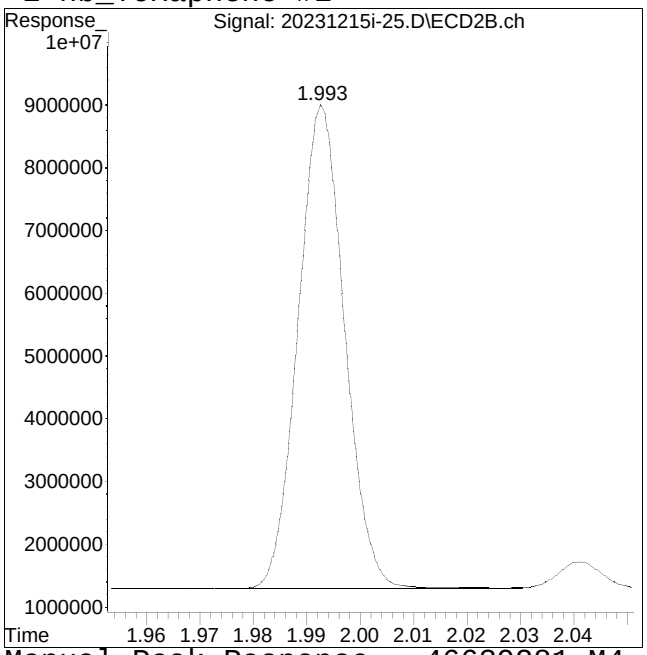
Original Peak Response = 50075694 Manual Peak Response = 49794524 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2023\231215QMethod : pest20_2023_12_15_ugL_IC
Data File : 20231215i-25.D Operator : pest20:ejl
Date Inj'd : 12/15/2023 9:32 pm Instrument : PEST 20
Sample : cicvtox,42e,,pp 11438 L2.0Quant Date : 12/18/2023 12:48 pm

Compound #71: 1-br-2-nb_Toxaphene #2





Original Peak Response = 46791979 Manual Peak Response = 46639281 M4
M4 = Poor automated baseline construction.

Evaluate Relative Error Report PEST 20

Method Path : I:\PEST\Pest20\2023\231215ical\
Method File : pest20_2023_12_15_ugL_ICAL.m
Title : pest
Last Update : Mon Dec 18 12:47:33 2023

	COMPOUND	CalFit	Units	TrueMid	MidConc	%RE	TrueLow	LowConc	%RE
3	Hexachlorobenzene	L	ug/l	50.0	51.708	3.4	2.00	1.756	-12.2
6	beta-BHC	L	ug/l	50.0	52.149	4.3	2.00	1.642	-17.9
7	delta-BHC	L	ug/l	50.0	48.920	-2.2	1.00	0.973	-2.7
8	Heptachlor	L	ug/l	50.0	50.855	1.7	1.00	0.744	-25.6
11	Chlorpyrifos	L	ug/l	50.0	53.913	7.8	2.00	1.486	-25.7
12	Heptachlor Epoxide	L	ug/l	50.0	51.181	2.4	1.00	0.719	-28.1
14	alpha-Chlordane (cis)	L	ug/l	50.0	51.039	2.1	1.00	0.737	-26.3
16	Endosulfan I	L	ug/l	50.0	50.909	1.8	1.00	0.726	-27.4
22	Endrin Aldehyde	L	ug/l	50.0	51.566	3.1	2.00	1.801	-10.0
23	Methoxychlor	L	ug/l	50.0	55.439	10.9	2.00	1.506	-24.7
24	Mirex	L	ug/l	50.0	54.301	8.6	2.00	1.518	-24.1
27 S	Decachlorobiphenyl	L	ug/l	50.0	54.362	8.7	2.00	1.569	-21.6
29 L1	chlordane-1	L	ug/l	1000.0	1042.061	4.2	10.00	7.471	-25.3
30 L1	chlordane-3	L	ug/l	1000.0	1083.283	8.3	10.00	5.234	-47.7
31 L1	chlordane-4	L	ug/l	1000.0	1030.785	3.1	10.00	8.395	-16.1
32 L1	chlordane-5	L	ug/l	1000.0	1036.513	3.7	10.00	8.272	-17.3
34 L2	toxaphene-1	L	ug/l	2000.0	2031.087	1.6	20.00	19.813	-0.9
35 L2	toxaphene-2	L	ug/l	2000.0	1952.799	-2.4	20.00	20.284	1.4
36 L2	toxaphene-4	L	ug/l	2000.0	1957.455	-2.1	20.00	20.256	1.3
37 L2	toxaphene-5	L	ug/l	2000.0	1976.354	-1.2	20.00	20.142	0.7
41	Hexachlorobenzene #2	L	ug/l	50.0	52.643	5.3	2.00	1.685	-15.7
44	beta-BHC #2	L	ug/l	50.0	52.541	5.1	2.00	1.641	-17.9
50	Heptachlor Epoxide #2	L	ug/l	50.0	51.135	2.3	1.00	0.772	-22.8
52	alpha-Chlordane (cis) #2	L	ug/l	50.0	51.140	2.3	1.00	0.752	-24.8
60	Endrin Aldehyde #2	L	ug/l	50.0	51.543	3.1	2.00	1.856	-7.2
61	Methoxychlor #2	L	ug/l	50.0	55.040	10.1	2.00	1.486	-25.7
62	Mirex #2	L	ug/l	50.0	54.015	8.0	2.00	1.541	-23.0
65 S	Decachlorobiphenyl #2	L	ug/l	50.0	55.370	10.7	2.00	1.508	-24.6
67 L1	chlordane-1 #2	L	ug/l	1000.0	1054.411	5.4	10.00	7.309	-26.9
68 L1	chlordane-3 #2	L	ug/l	1000.0	1101.325	10.1	10.00	5.249	-47.5
69 L1	chlordane-4 #2	L	ug/l	1000.0	1047.904	4.8	10.00	8.140	-18.6
70 L1	chlordane-5 #2	L	ug/l	1000.0	1049.699	5.0	10.00	7.840	-21.6
72 L2	toxaphene-1 #2	L	ug/l	2000.0	1958.642	-2.1	20.00	20.249	1.2
73 L2	toxaphene-2 #2	L	ug/l	2000.0	1992.861	-0.4	20.00	20.043	0.2
74 L2	toxaphene-4 #2	L	ug/l	2000.0	1965.512	-1.7	20.00	20.208	1.0
75 L2	toxaphene-5 #2	L	ug/l	2000.0	1920.589	-4.0	20.00	20.478	2.4

Calibration Correlation Report

	COMPOUND	CalFit	CoefOfDet	QuadTerm	LinTerm	Constant
3	Hexachlorobenzene	Linear	0.999618	0.000000	1.0526	0.0542078
6	beta-BHC	Linear	0.999434	0.000000	0.528509	0.02851
7	delta-BHC	Linear	0.999845	0.000000	1.24108	0.00914604
8	Heptachlor	Linear	0.999721	0.000000	1.04624	0.0265103
11	Chlorpyrifos	Linear	0.996571	0.000000	0.433021	0.0309884
12	Heptachlor Epoxide	Linear	0.999580	0.000000	1.01637	0.0275943
14	alpha-Chlordane (cis)	Linear	0.999679	0.000000	1.09141	0.0283797
16	Endosulfan I	Linear	0.999643	0.000000	0.986891	0.0234628
22	Endrin Aldehyde	Linear	0.999672	0.000000	0.750502	0.0256448
23	Methoxychlor	Linear	0.997011	0.000000	0.406571	0.025459
24	Mirex	Linear	0.998308	0.000000	0.721763	0.055468
27 S	Decachlorobiphenyl	Linear	0.998221	0.000000	0.946286	0.0663627
29 L1	chlordane-1	Linear	0.998747	0.000000	0.0349695	0.00773749
30 L1	chlordane-3	Linear	0.996712	0.000000	0.0380643	0.0136869
31 L1	chlordane-4	Linear	0.998963	0.000000	0.134135	0.0257387
32 L1	chlordane-5	Linear	0.998917	0.000000	0.206372	0.0422544
34 L2	toxaphene-1	Linear	0.999901	0.000000	0.0357244	0.00494539
35 L2	toxaphene-2	Linear	0.999772	0.000000	0.0265332	-0.00266702

36	L2 toxaphene-4	Linear	0.999815	0.000000	0.0199219	0.00376167
37	L2 toxaphene-5	Linear	0.999943	0.000000	0.0317018	0.00695614
41	Hexachlorobenzene #2	Linear	0.999194	0.000000	1.07069	0.060263
44	beta-BHC #2	Linear	0.999279	0.000000	0.572824	0.0283369
50	Heptachlor Epoxide #2	Linear	0.999597	0.000000	1.07582	0.0258996
52	alpha-Chlordane (cis) #2	Linear	0.999600	0.000000	1.07838	0.0251317
60	Endrin Aldehyde #2	Linear	0.999695	0.000000	0.777905	0.0205712
61	Methoxychlor #2	Linear	0.997331	0.000000	0.429283	0.0241736
62	Mirex #2	Linear	0.998491	0.000000	0.71875	0.054238
65	S Decachlorobiphenyl #2	Linear	0.997139	0.000000	0.865926	0.0653061
67	L1 chlordane-1 #2	Linear	0.998664	0.000000	0.0349827	0.00777135
68	L1 chlordane-3 #2	Linear	0.996008	0.000000	0.0369966	0.0131175
69	L1 chlordane-4 #2	Linear	0.999055	0.000000	0.123659	0.021379
70	L1 chlordane-5 #2	Linear	0.998892	0.000000	0.101263	0.019757
72	L2 toxaphene-1 #2	Linear	0.999825	0.000000	0.0208031	-0.00240717
73	L2 toxaphene-2 #2	Linear	0.999995	0.000000	0.0309168	0.000727612
74	L2 toxaphene-4 #2	Linear	0.999878	0.000000	0.0356767	-0.000506054
75	L2 toxaphene-5 #2	Linear	0.999356	0.000000	0.0312706	0.00297389

Response Factor Report Pest 11

Method Path : I:\PEST\Pest11\2023\231219ICAL\
Method File : pest11_12_19_23_ugL_ICAL.M
Title : pest
Last Update : Wed Dec 20 18:44:10 2023
Response Via : Initial Calibration

Calibration Files
1 =11231219i-03.d 2 =11231219i-04.d 3 =11231219i-22.d 4 =11231219i-15.d 5 =11231219i-16.d
7 =11231219i-17.d 8 =11231219i-23.d 9 =11231219i-24.d 10 =11231219i-20.d 11 =11231219i-12.d

		Compound	1	2	3	4	5	7	8	9	10	11	Avg	%RSD
1)	i	1-br-2-nb_Pesticides	----------ISTD----------											
2)	s	2,4,5,6-Tetra...		1.021	0.987	0.999	0.950	0.932	0.934	0.950	0.937	0.910	0.958	3.81
3)	t	Hexachloroben...		1.243	1.199	1.199	1.141	1.093	1.042	1.044	1.029	1.005	1.110	7.89
4)	t	alpha-BHC		1.230	1.211	1.242	1.210	1.261	1.419	1.482	1.500	1.485	1.338	9.69
5)	t	gamma-BHC (li...	1.271	1.229	1.205	1.231	1.192	1.221	1.321	1.367	1.379	1.362	1.278	5.69
6)	t	beta-BHC		0.686	0.664	0.664	0.628	0.598	0.567	0.571	0.568	0.562	*L	0.999
9														
7)	t	delta-BHC		1.272	1.188	1.210	1.172	1.207	1.344	1.406	1.427	1.424	1.294	8.24
8)	t	Heptachlor		1.380	1.325	1.336	1.273	1.265	1.303	1.332	1.310	1.256	1.309	3.04
9)	t	Aldrin		1.180	1.159	1.159	1.116	1.132	1.204	1.253	1.256	1.223	1.187	4.25
10)	t	Alachlor			0.214	0.221	0.206	0.201	0.177	0.169	0.155		0.192	12.94
11)	t	Chlorpyrifos			0.776	0.766	0.716	0.680	0.586	0.568	0.532		*L	0.998
1														
12)	t	Heptachlor Ep...		1.292	1.250	1.239	1.182	1.167	1.161	1.187	1.170	1.129	1.198	4.31
13)	t	gamma-Chlorda...		1.207	1.139	1.114	1.045	1.031	1.038	1.076	1.089	1.082	1.091	5.12
14)	t	alpha-Chlorda...		1.327	1.296	1.283	1.215	1.197	1.185	1.224	1.225	1.213	1.241	3.95
15)	t	4,4'-DDE		1.088	1.077	1.086	1.038	1.071	1.137	1.208	1.222	1.213	1.126	6.25
16)	t	Endosulfan I		1.498	1.186	1.180	1.125	1.113	1.103	1.135	1.122	1.087	1.172	10.77

Response Factor Report Pest 11

Method Path : I:\PEST\Pest11\2023\231219ICAL\
Method File : pest11_12_19_23_ugL_ICAL.M
Title : pest
Last Update : Wed Dec 20 18:44:10 2023
Response Via : Initial Calibration

Calibration Files
1 =11231219i-03.d 2 =11231219i-04.d 3 =11231219i-22.d 4 =11231219i-15.d 5 =11231219i-16.d
7 =11231219i-17.d 8 =11231219i-23.d 9 =11231219i-24.d 10 =11231219i-20.d 11 =11231219i-12.d

		Compound	1	2	3	4	5	7	8	9	10	11	Avg	%RSD
17)	t	Dieldrin		1.281	1.169	1.159	1.097	1.103	1.136	1.190	1.198	1.177	1.168	4.75
18)	t	Endrin		1.219	1.180	1.178	1.123	1.141	1.181	1.232	1.223	1.195	1.186	3.09
19)	t	4,4'-DDD		0.912	0.912	0.912	0.867	0.893	0.929	0.985	0.999	0.996	0.934	5.13
20)	t	Endosulfan II		1.186	1.141	1.141	1.091	1.080	1.062	1.087	1.063	1.001	1.095	4.97
21)	t	4,4'-DDT		1.169	1.101	1.101	1.050	1.068	1.087	1.144	1.147	1.134	1.111	3.58
22)	t	Endrin Aldehyde			0.959	0.955	0.906	0.900	0.874	0.907	0.898	0.868	*L	0.999 6
23)	t	Methoxychlor		0.911	0.751	0.736	0.698	0.679	0.605	0.603	0.573		*L	0.999 1
24)	t	Mirex			1.249	1.210	1.142	1.084	0.924	0.923	0.893		*L	0.999 4
25)	t	Endosulfan Su...		1.198	1.157	1.151	1.089	1.071	1.006	1.026	1.007	0.979	1.076	7.27
26)	t	Endrin Ketone		1.315	1.273	1.278	1.227	1.223	1.171	1.187	1.154	1.104	1.215	5.55
27)	s	Decachlorobip...			1.227	1.213	1.146	1.082	0.928	0.929	0.899	0.857	*L	0.998 8
28)	i	1-br-2-nb_Chlordane	----------ISTD----------											
29)	l1	chlordane-1			0.042	0.041	0.037	0.036	0.037	0.035	0.037		*L	0.999 6
30)	l1	chlordane-3			0.054	0.054	0.049	0.044	0.044	0.040	0.040		*L	0.998 7
31)	l1	chlordane-4			0.171	0.161	0.147	0.146	0.154	0.145	0.150		*L	0.999 6
32)	l1	chlordane-5			0.266	0.252	0.231	0.229	0.240	0.224	0.230		*L	0.999 6

Method Path : I:\PEST\Pest11\2023\231219ICAL\
Method File : pest11_12_19_23_ugL_ICAL.M
Title : pest
Last Update : Wed Dec 20 18:44:10 2023
Response Via : Initial Calibration

Calibration Files
1 =11231219i-03.d 2 =11231219i-04.d 3 =11231219i-22.d 4 =11231219i-15.d 5 =11231219i-16.d
7 =11231219i-17.d 8 =11231219i-23.d 9 =11231219i-24.d 10 =11231219i-20.d 11 =11231219i-12.d

		Compound	1	2	3	4	5	7	8	9	10	11	Avg	%RSD
33)	i	1-br-2-nb_Toxaphene	----------ISTD----------											
34)	l2	toxaphene-2			0.055				0.062	0.061			0.059	6.15
35)	l2	toxaphene-3			0.038				0.045	0.046			0.043	10.26
36)	l2	toxaphene-4			0.049				0.050	0.051			0.050	2.09
37)	l2	toxaphene-5			0.043				0.046	0.047			0.045	4.31

Signal #2 Calibration Files
1 =11231219i-03.d 2 =11231219i-04.d 3 =11231219i-22.d 4 =11231219i-15.d 5 =11231219i-16.d
7 =11231219i-17.d 8 =11231219i-23.d 9 =11231219i-24.d 10 =11231219i-20.d 11 =11231219i-12.d

		Compound	1	2	3	4	5	7	8	9	10	11	Avg	%RSD
1)	i	1-br-2-nb_Pesticides	----------ISTD----------											
2)	s	2,4,5,6-Tetra...			1.107	1.059	1.069	1.006	0.955	0.936	0.950	0.945	0.931	0.995	6.71
3)	t	Hexachloroben...			1.330	1.269	1.253	1.177	1.094	1.016	1.020	1.016	1.011	*L 0.999
4)	t	alpha-BHC			1.366	1.333	1.350	1.295	1.295	1.395	1.457	1.492	1.513	1.388	5.89
5)	t	gamma-BHC (li...	1.406	1.352	1.302	1.319	1.254	1.225	1.273	1.319	1.344	1.359	1.315	4.10
6)	t	beta-BHC			0.763	0.706	0.715	0.676	0.619	0.554	0.555	0.551	0.553	*L 0.998
7)	t	delta-BHC			1.351	1.290	1.295	1.230	1.214	1.284	1.339	1.375	1.403	1.309	4.86
8)	t	Heptachlor			1.543	1.436	1.437	1.354	1.289	1.272	1.301	1.298	1.277	1.356	7.00
9)	t	Aldrin			1.313	1.249	1.261	1.195	1.162	1.176	1.220	1.234	1.232	1.227	3.77

Response Factor Report Pest 11

Method Path : I:\PEST\Pest11\2023\231219ICAL\
Method File : pest11_12_19_23_ugL_ICAL.M
Title : pest
Last Update : Wed Dec 20 18:44:10 2023
Response Via : Initial Calibration

Calibration Files
1 =11231219i-03.d 2 =11231219i-04.d 3 =11231219i-22.d 4 =11231219i-15.d 5 =11231219i-16.d
7 =11231219i-17.d 8 =11231219i-23.d 9 =11231219i-24.d 10 =11231219i-20.d 11 =11231219i-12.d

	Compound	1	2	3	4	5	7	8	9	10	11	Avg	%RSD
10) t	Alachlor			0.219	0.224	0.214	0.206	0.171	0.160	0.147		*L	0.995
11) t	Chlorpyrifos			0.897	0.891	0.837	0.764	0.617	0.593	0.559		*L	0.997
12) t	Heptachlor Ep...	1.442	1.342	1.327	1.254	1.183	1.120	1.149	1.147	1.144		*L	0.999
13) t	gamma-Chlorda...	1.235	1.197	1.189	1.120	1.061	1.001	1.033	1.046	1.062		1.105	7.58
14) t	alpha-Chlorda...	1.429	1.327	1.319	1.241	1.177	1.110	1.139	1.145	1.159		*L	0.999
15) t	4,4'-DDE	1.179	1.137	1.154	1.092	1.076	1.080	1.128	1.141	1.156		1.127	3.25
16) t	Endosulfan I	1.273	1.209	1.217	1.148	1.089	1.035	1.059	1.055	1.053		1.127	7.80
17) t	Dieldrin	1.246	1.165	1.164	1.105	1.070	1.056	1.100	1.113	1.124		1.127	5.14
18) t	Endrin	1.240	1.164	1.168	1.092	1.075	1.067	1.110	1.118	1.132		1.130	4.83
19) t	4,4'-DDD	0.948	0.907	0.919	0.867	0.857	0.846	0.885	0.903	0.937		0.897	3.97
20) t	Endosulfan II	1.137	1.115	1.106	1.042	0.995	0.933	0.955	0.949	0.927		1.018	8.27
21) t	4,4'-DDT	1.212	1.133	1.093	1.026	0.993	0.969	1.002	1.014	1.038		*L	0.999
22) t	Endrin Aldehyde			0.926	0.939	0.871	0.845	0.775	0.802	0.808	0.813	*L	0.999
23) t	Methoxychlor	0.741	0.714	0.680	0.641	0.597	0.512	0.512	0.504			*L	0.999
24) t	Mirex			1.102	1.068	0.993	0.910	0.743	0.741	0.724		*L	0.999
25) t	Endosulfan Su...	1.152	1.092	1.093	1.021	0.972	0.885	0.902	0.906	0.921		0.994	10.02

Method Path : I:\PEST\Pest11\2023\231219ICAL\
Method File : pest11_12_19_23_ugL_ICAL.M
Title : pest
Last Update : Wed Dec 20 18:44:10 2023
Response Via : Initial Calibration

Calibration Files
1 =11231219i-03.d 2 =11231219i-04.d 3 =11231219i-22.d 4 =11231219i-15.d 5 =11231219i-16.d
7 =11231219i-17.d 8 =11231219i-23.d 9 =11231219i-24.d 10 =11231219i-20.d 11 =11231219i-12.d

		Compound	1	2	3	4	5	7	8	9	10	11	Avg	%RSD
26)	t	Endrin Ketone	1.180	1.155	1.152	1.080	1.055	0.979	0.995	1.002	1.015		1.068	7.24
27)	s	Decachlorobip...			1.051	1.036	0.979	0.911	0.774	0.778	0.761	0.753	*L	0.999 7
28)	i	1-br-2-nb_Chlordane	----------ISTD----------											
29)	l1	chlordane-1			0.048	0.046	0.040	0.035	0.036	0.033	0.034		*L	0.999 4
30)	l1	chlordane-3			0.058	0.055	0.048	0.040	0.039	0.035	0.035		*L	0.996 8
31)	l1	chlordane-4			0.165	0.161	0.139	0.131	0.136	0.127	0.130		*L	0.999 6
32)	l1	chlordane-5			0.134	0.128	0.112	0.103	0.107	0.099	0.102		*L	0.999 5
33)	i	1-br-2-nb_Toxaphene	----------ISTD----------											
34)	l2	toxaphene-2			0.020			0.022	0.023				0.022	7.67
35)	l2	toxaphene-3			0.033			0.033	0.034				0.033	1.63
36)	l2	toxaphene-4			0.036			0.039	0.040				0.038	4.98
37)	l2	toxaphene-5			0.036			0.036	0.037				0.036	1.03

(#) = Out of Range ### Number of calibration levels exceeded format ###

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2023\231219ICAL\
Data File : 11231219i-02.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 19 Dec 2023 1:36 pm
Operator : PEST11:ejl
Sample : pem11231219i-01,42,,pp 11372 -- (Sig #1); pem-01,42e,,pp 11372 -- (Sig #2)
Misc : WG1866910,ical
ALS Vial : 2 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 20 18:47:57 2023
Quant Method : I:\PEST\Pest11\2023\231219ICAL\pest11_12_19_23_ugL_ICAL.M
Quant Title : pest
QLast Update : Wed Dec 20 18:44:10 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : DEG - DDT/Endrin degradation check

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	1.374	1.479	79753615	129.0E6	25.000M4	25.000M4
	System Monitoring Compounds						
	Target Compounds						
15) t	4,4'-DDE	3.793	4.687	486038	1162281	0.135M4	0.200M4
18) t	Endrin	4.352	5.128	224.8E6	294.9E6	59.440M4	50.584
19) t	4,4'-DDD	4.455	5.238	844395	1395995	0.283M4	0.302M4
21) t	4,4'-DDT	4.739	5.507	427.6E6	538.9E6	120.602	102.158M4
22) t	Endrin Aldeh	4.991	5.606	583645	939148	0.001M4	N.D. M3 D
26) t	Endrin Keton	5.599	6.236	2594631	3637482	0.670M4	0.660
	Sum chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
	Sum toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000
	SemiQuant Compounds - Not Calibrated on this Instrument						
	Sum toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000

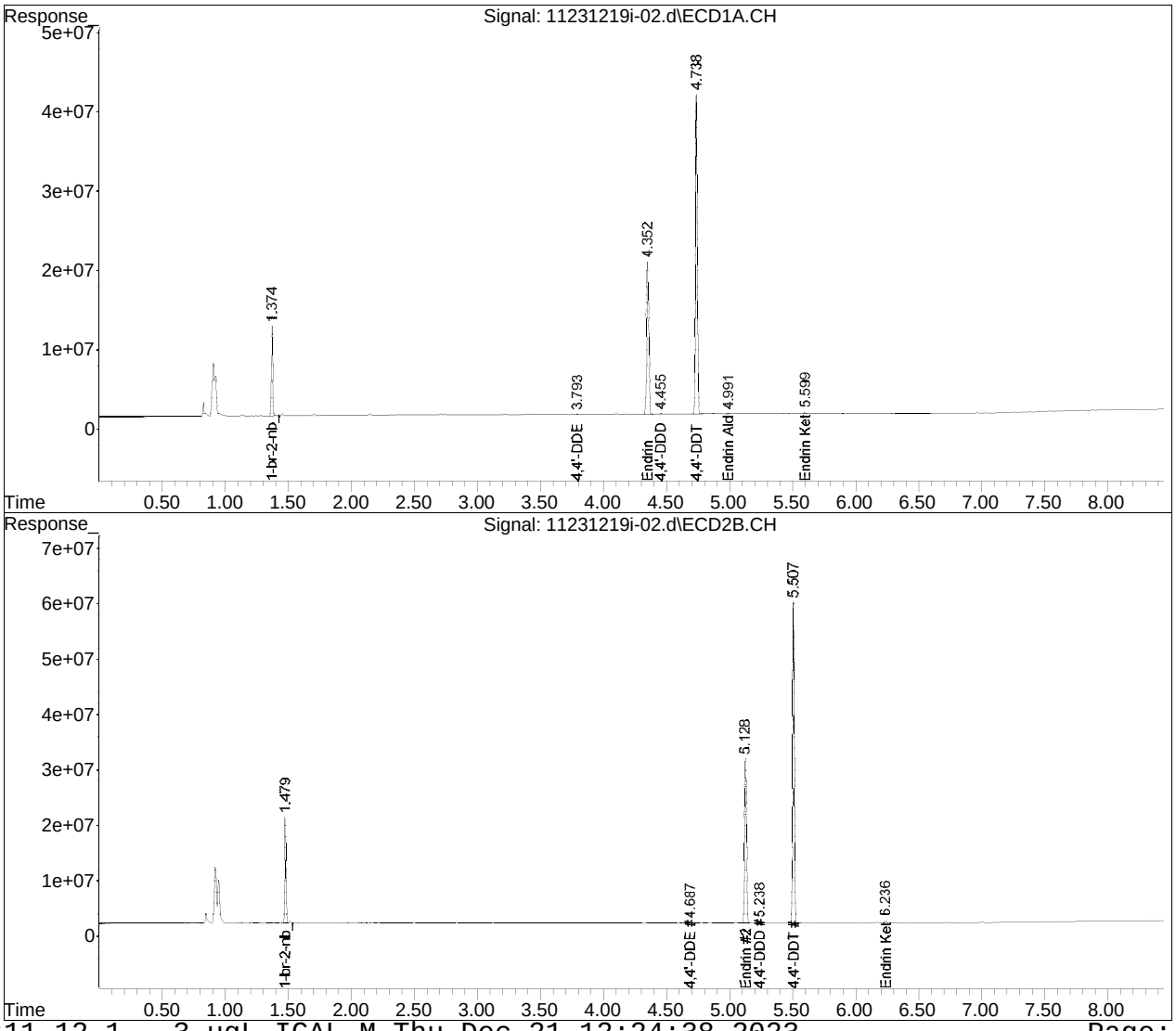
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : DEG - DDT/Endrin degradation checkiewed)

Data Path : I:\PEST\Pest11\2023\231219ICAL\
Data File : 11231219i-02.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 19 Dec 2023 1:36 pm
Operator : PEST11:ejl
Sample : pem11231219i-01,42,,pp 11372 -- (Sig #1); pem-01,42e,,pp 11372 --
Misc : WG1866910,ical
ALS Vial : 2 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 20 18:47:57 2023
Quant Method : I:\PEST\Pest11\2023\231219ICAL\pest11_12_19_23_ugL_ICAL.M
Quant Title : pest
QLast Update : Wed Dec 20 18:44:10 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

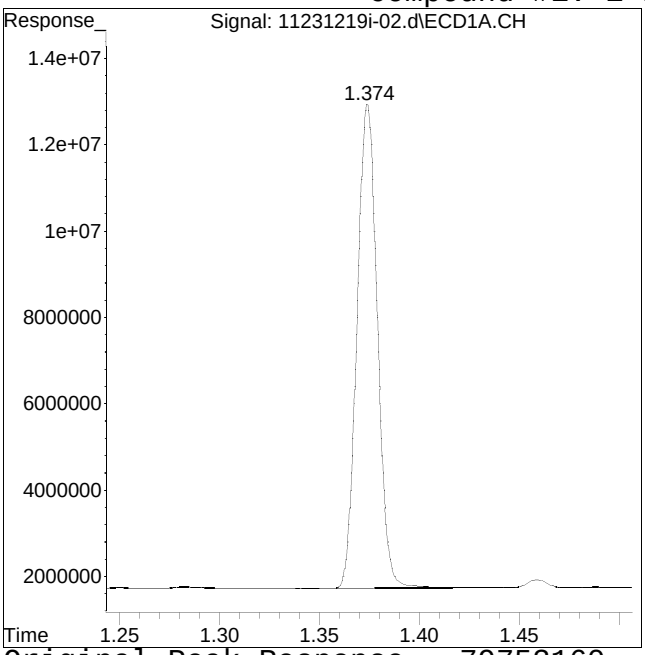
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

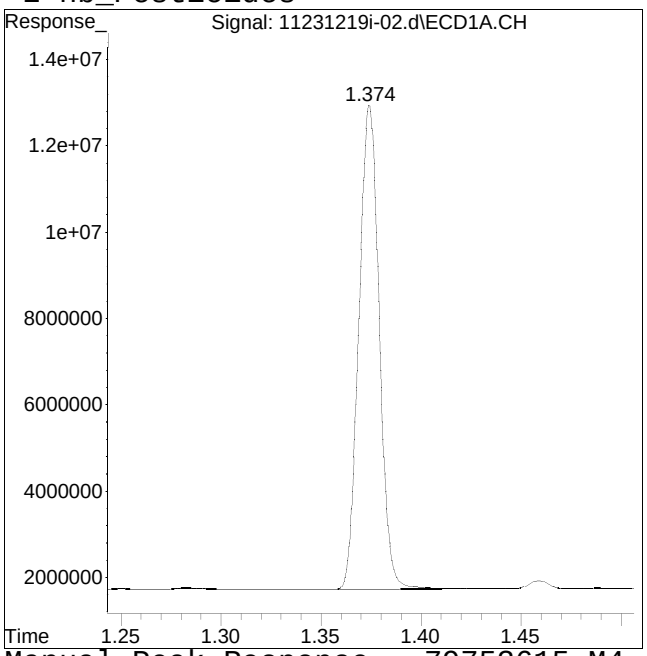


Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-02.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 1:36 pm Instrument : Pest 11
Sample : pem11231219i-01,42,,pp 113Quant Date : 12/20/2023 6:46 pm

Compound #1: 1-br-2-nb_Pesticides



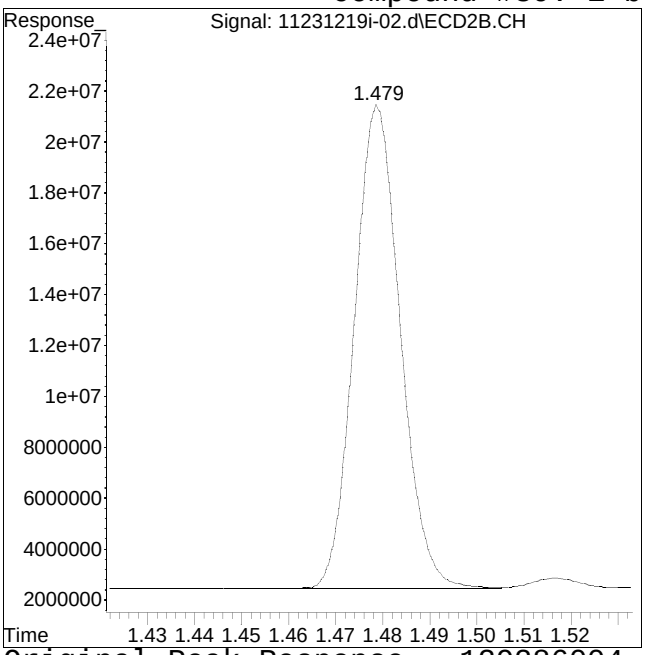


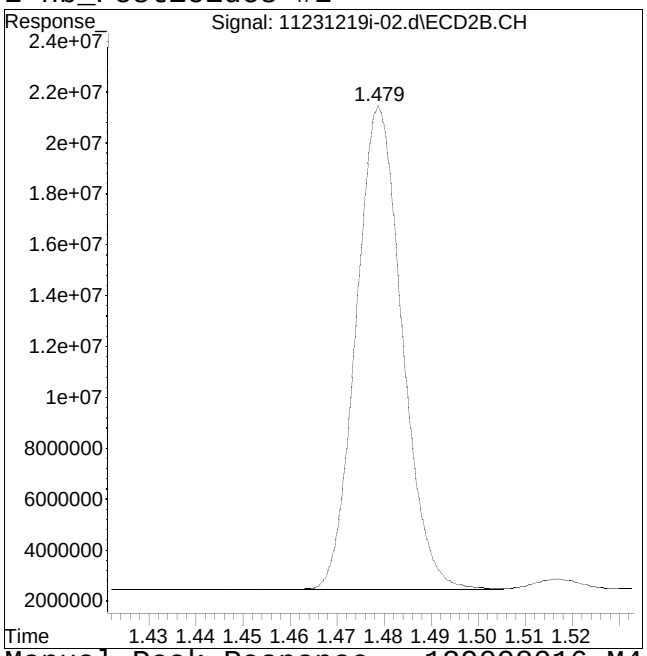
Original Peak Response = 79753160 Manual Peak Response = 79753615 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-02.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 1:36 pm Instrument : Pest 11
Sample : pem11231219i-01,42,,pp 113Quant Date : 12/20/2023 6:46 pm

Compound #39: 1-br-2-nb_Pesticides #2



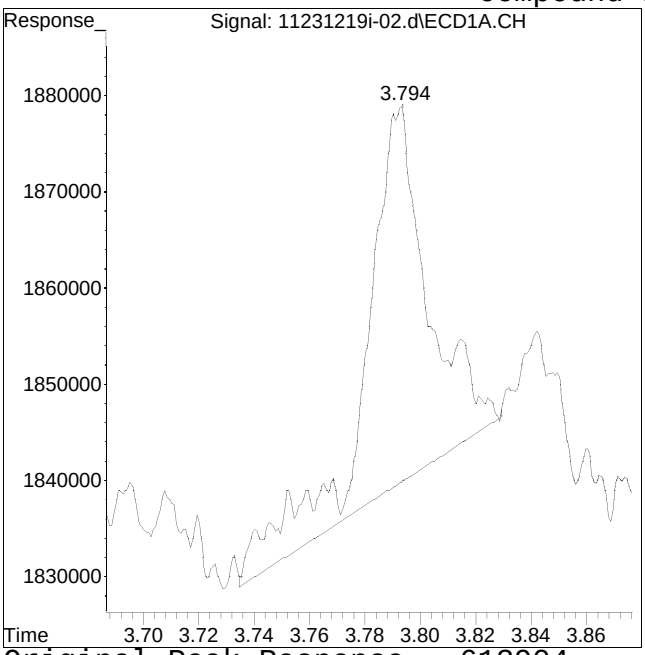


Original Peak Response = 129286004 Manual Peak Response = 129008016 M4
M4 = Poor automated baseline construction.

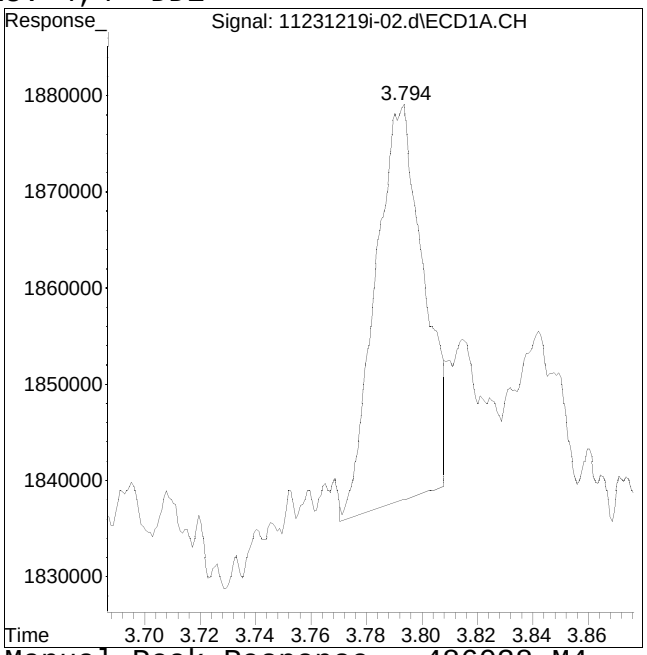
Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-02.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 1:36 pm Instrument : Pest 11
Sample : pem11231219i-01,42,,pp 113Quant Date : 12/20/2023 6:46 pm

Compound #15: 4,4'-DDE



Original Peak Response = 613904



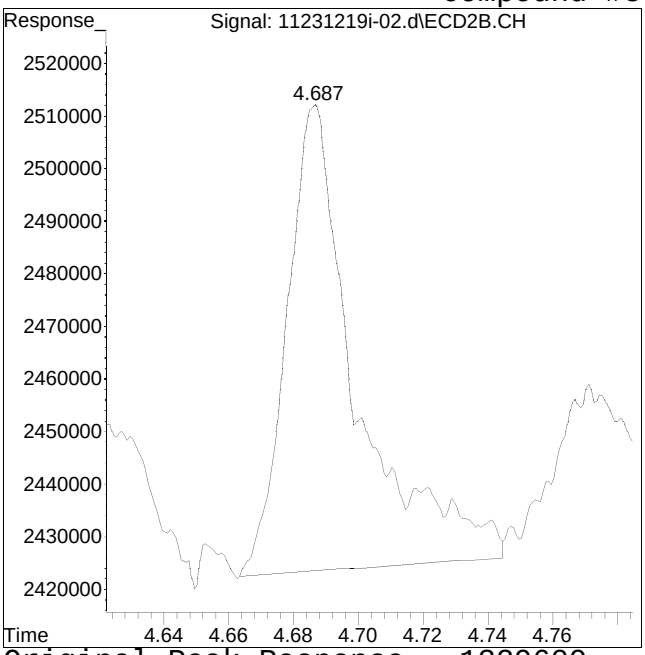
Manual Peak Response = 486038 M4

M4 = Poor automated baseline construction.

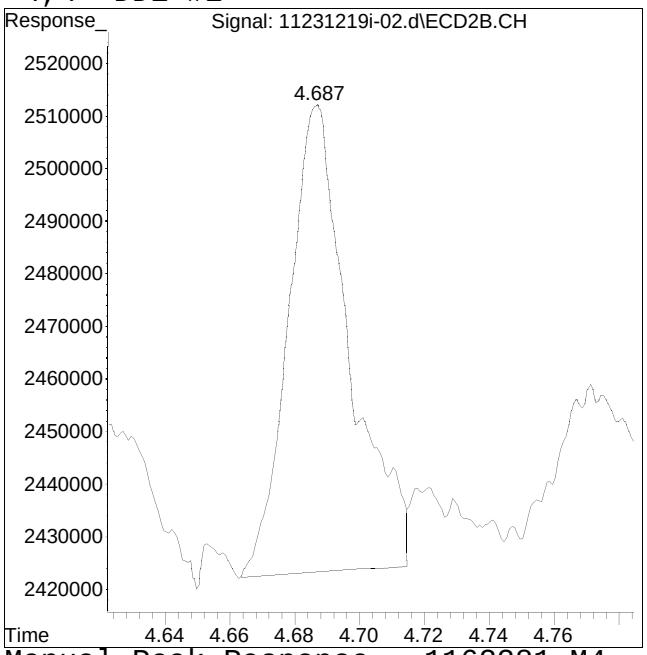
Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-02.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 1:36 pm Instrument : Pest 11
Sample : pem11231219i-01,42,,pp 113Quant Date : 12/20/2023 6:46 pm

Compound #53: 4,4'-DDE #2



Original Peak Response = 1329609



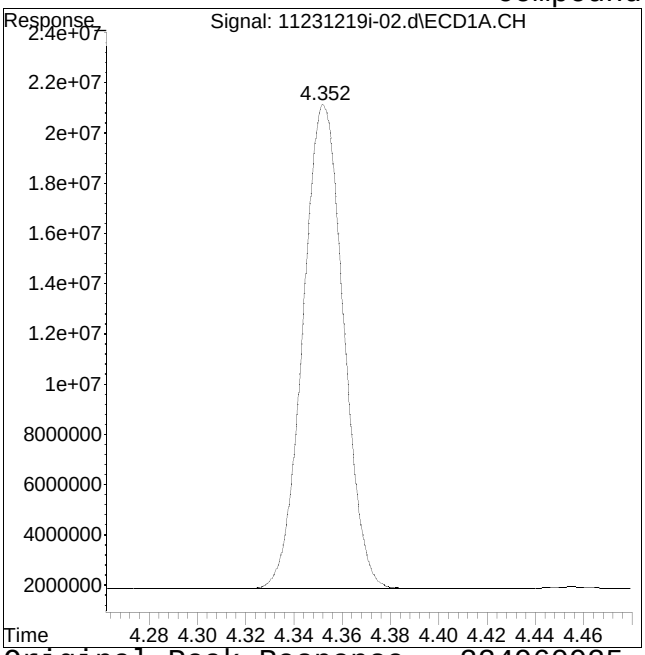
Manual Peak Response = 1162281 M4

M4 = Poor automated baseline construction.

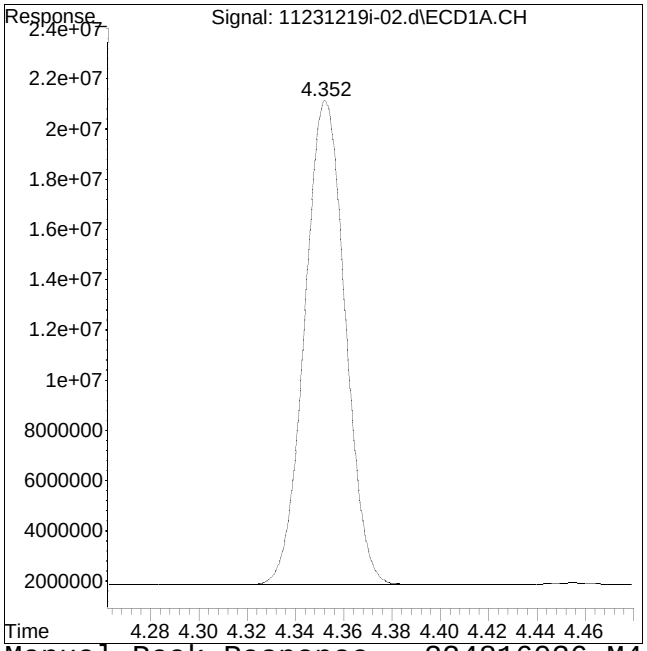
Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-02.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 1:36 pm Instrument : Pest 11
Sample : pem11231219i-01,42,,pp 113Quant Date : 12/20/2023 6:46 pm

Compound #18: Endrin



Original Peak Response = 224960925



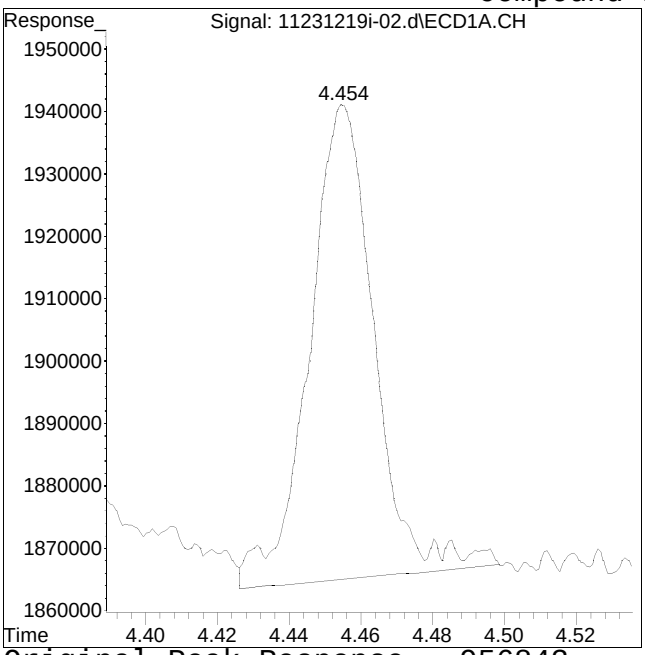
Manual Peak Response = 224816036 M4

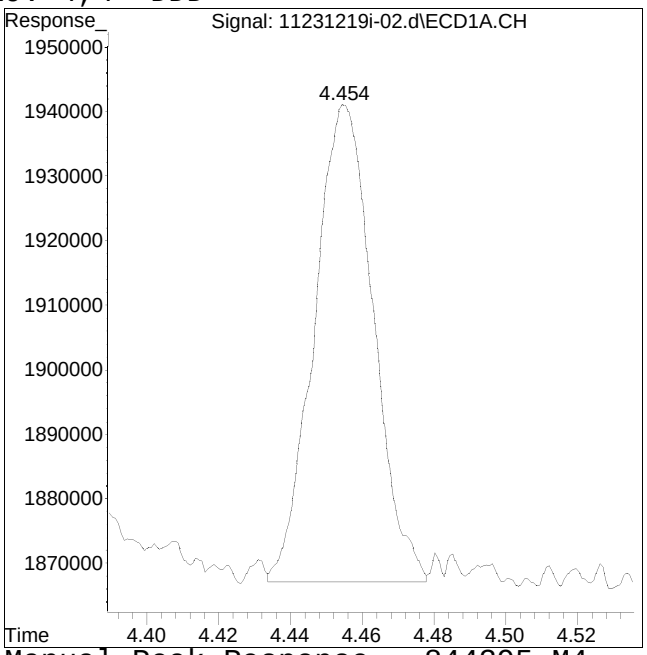
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-02.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 1:36 pm Instrument : Pest 11
Sample : pem11231219i-01,42,,pp 113Quant Date : 12/20/2023 6:46 pm

Compound #19: 4,4'-DDD



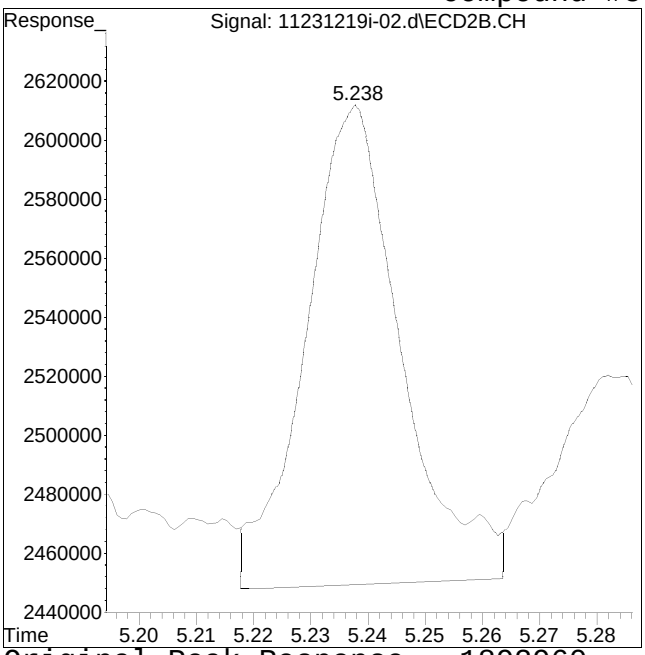


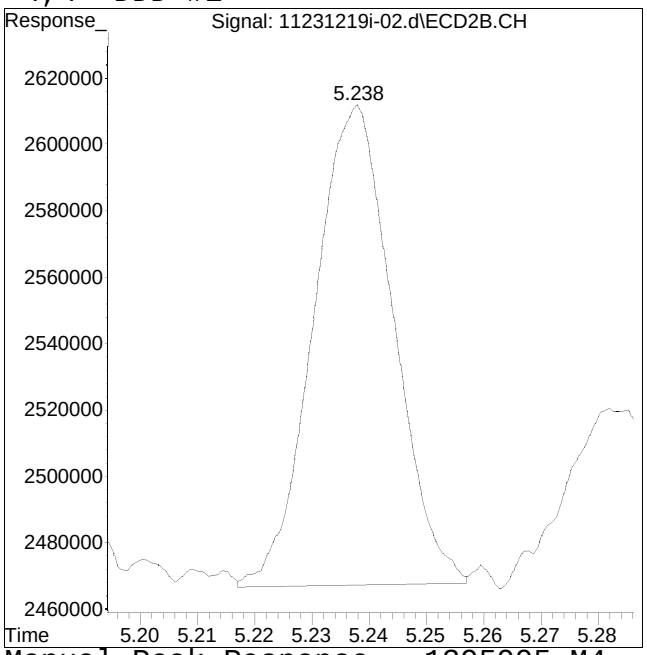
Original Peak Response = 956843 Manual Peak Response = 844395 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-02.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 1:36 pm Instrument : Pest 11
Sample : pem11231219i-01,42,,pp 113Quant Date : 12/20/2023 6:46 pm

Compound #57: 4,4'-DDD #2



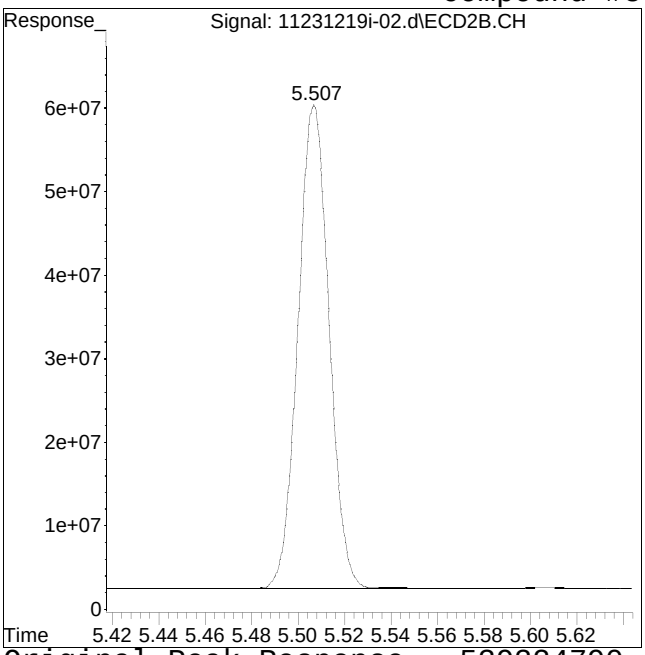


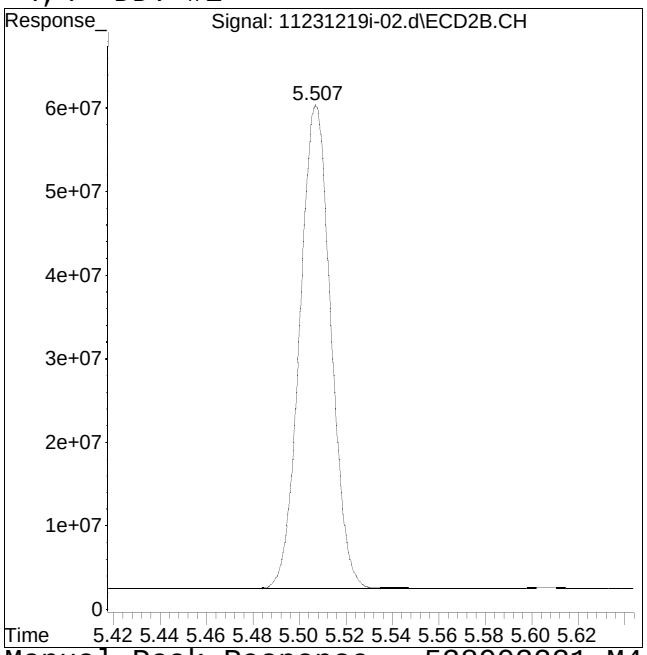
Original Peak Response = 1892960 Manual Peak Response = 1395995 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-02.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 1:36 pm Instrument : Pest 11
Sample : pem11231219i-01,42,,pp 113Quant Date : 12/20/2023 6:46 pm

Compound #59: 4,4'-DDT #2



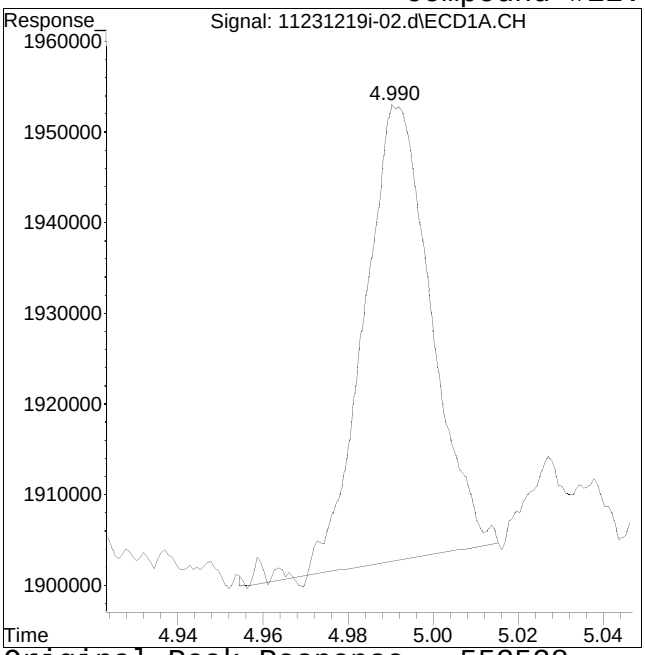


Original Peak Response = 539324790 Manual Peak Response = 538903221 M4
M4 = Poor automated baseline construction.

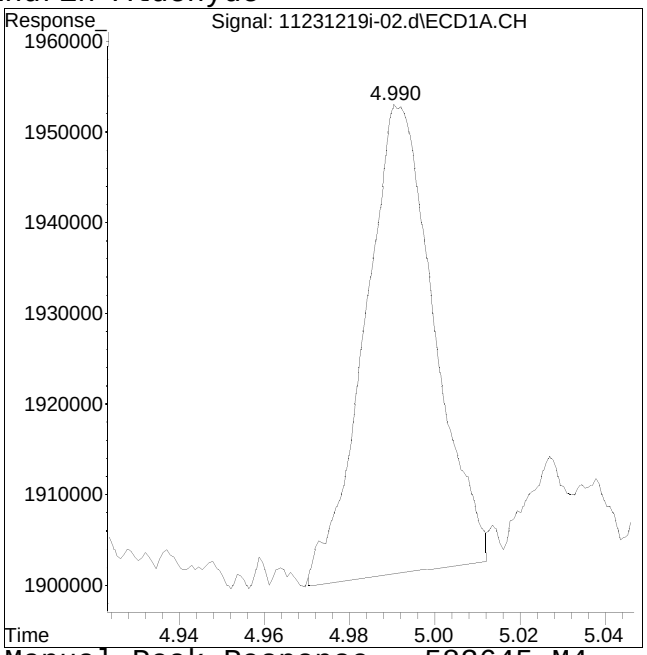
Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-02.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 1:36 pm Instrument : Pest 11
Sample : pem11231219i-01,42,,pp 113Quant Date : 12/20/2023 6:46 pm

Compound #22: Endrin Aldehyde



Original Peak Response = 553528



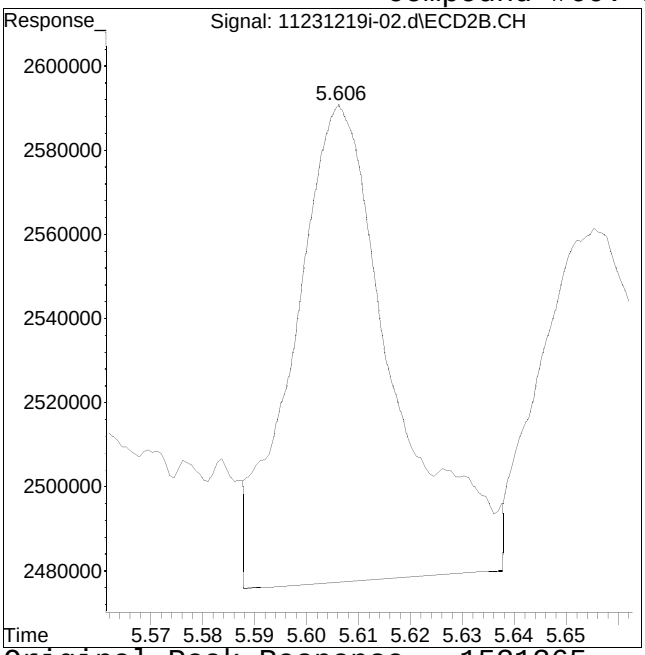
Manual Peak Response = 583645 M4

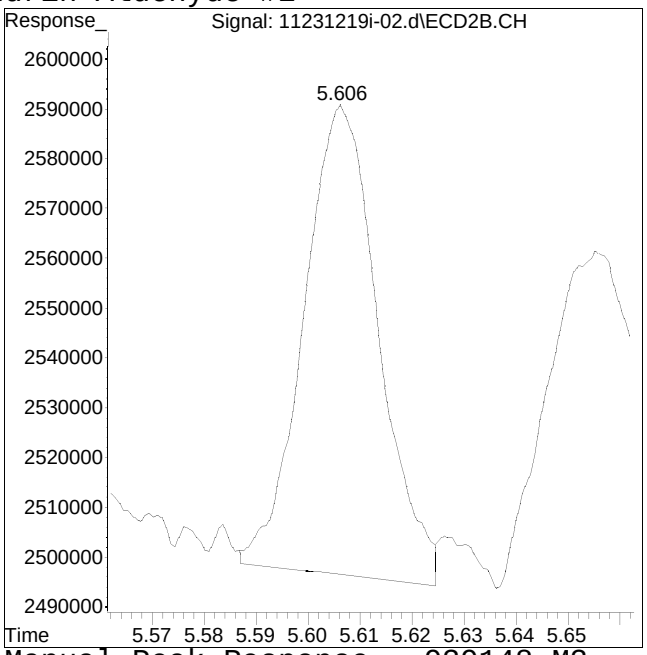
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-02.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 1:36 pm Instrument : Pest 11
Sample : pem11231219i-01,42,,pp 113Quant Date : 12/20/2023 6:46 pm

Compound #60: Endrin Aldehyde #2



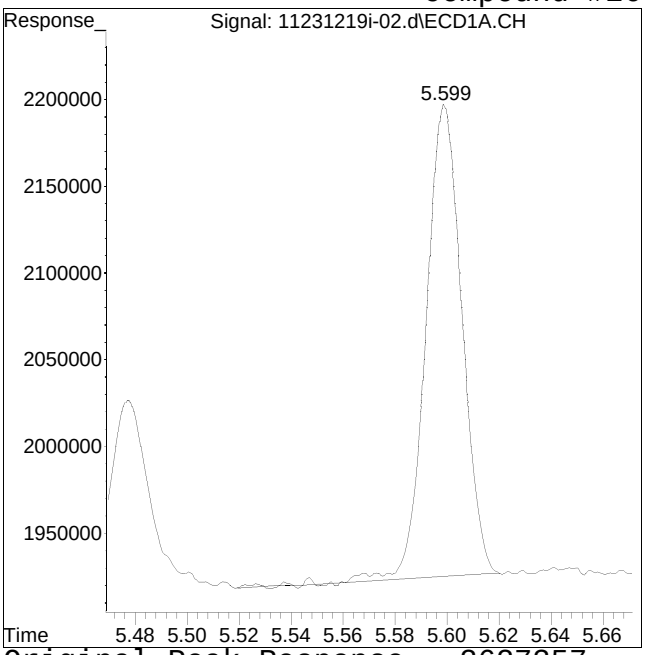


Original Peak Response = 1531365 Manual Peak Response = 939148 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

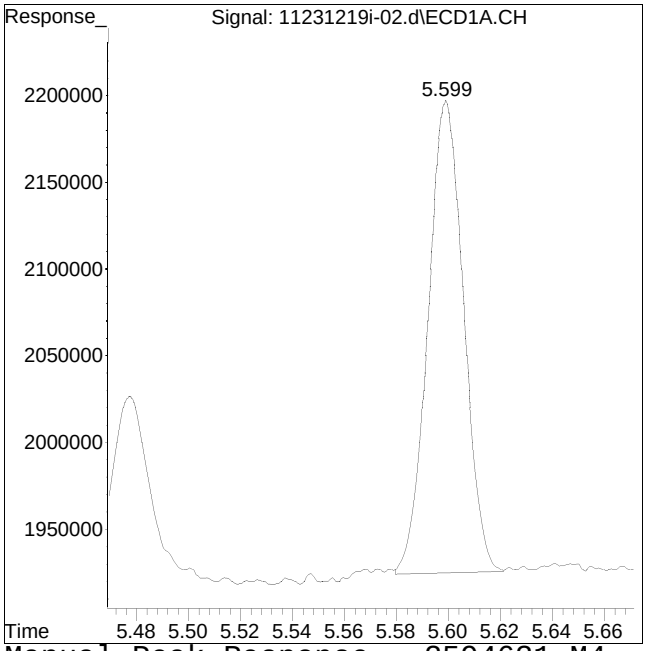
Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-02.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 1:36 pm Instrument : Pest 11
Sample : pem11231219i-01,42,,pp 113Quant Date : 12/20/2023 6:46 pm

Compound #26: Endrin Ketone



Original Peak Response = 2627357



Manual Peak Response = 2594631 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2023\231219ICAL\
Data File : 11231219i-03.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 19 Dec 2023 1:48 pm
Operator : PEST11:ejl
Sample : il1pest,42e,,pp 11406 L0.0005
Misc : WG1866910,ical (Sig #1); ical (Sig #2)
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 20 18:20:06 2023
Quant Method : I:\PEST\Pest11\2023\231219ICAL\pest11_12_19_23_ugL_ICAL.M
Quant Title : pest
QLast Update : Wed Dec 20 18:19:12 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	1.373	1.478	86228278	124.8E6	25.000M4	25.000M4
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount 50.000	Range 30 - 150		Recovery =		0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount 50.000	Range 30 - 150		Recovery =		0.00%#	0.00%#
	Target Compounds						
3) t	Hexachlorobe	0.000	0.000	0	0	N.D. d	N.D. d
4) t	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5) t	gamma-BHC (l	2.259	2.728	2192599	3508953	0.497M4	0.538M4
6) t	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7) t	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8) t	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9) t	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10) t	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11) t	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12) t	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13) t	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14) t	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15) t	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17) t	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18) t	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19) t	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21) t	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2023\231219ICAL\
Data File : 11231219i-03.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 19 Dec 2023 1:48 pm
Operator : PEST11:ejl
Sample : il1pest,42e,,pp 11406 L0.0005
Misc : WG1866910,ical (Sig #1); ical (Sig #2)
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 20 18:20:06 2023
Quant Method : I:\PEST\Pest11\2023\231219ICAL\pest11_12_19_23_ugL_ICAL.M
Quant Title : pest
QLast Update : Wed Dec 20 18:19:12 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
22) t	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d
23) t	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
24) t	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25) t	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26) t	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	0.000	0.000	0	0	N.D.	N.D.
30) l1	chlordane-3	0.000	0.000	0	0	N.D.	N.D.
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000

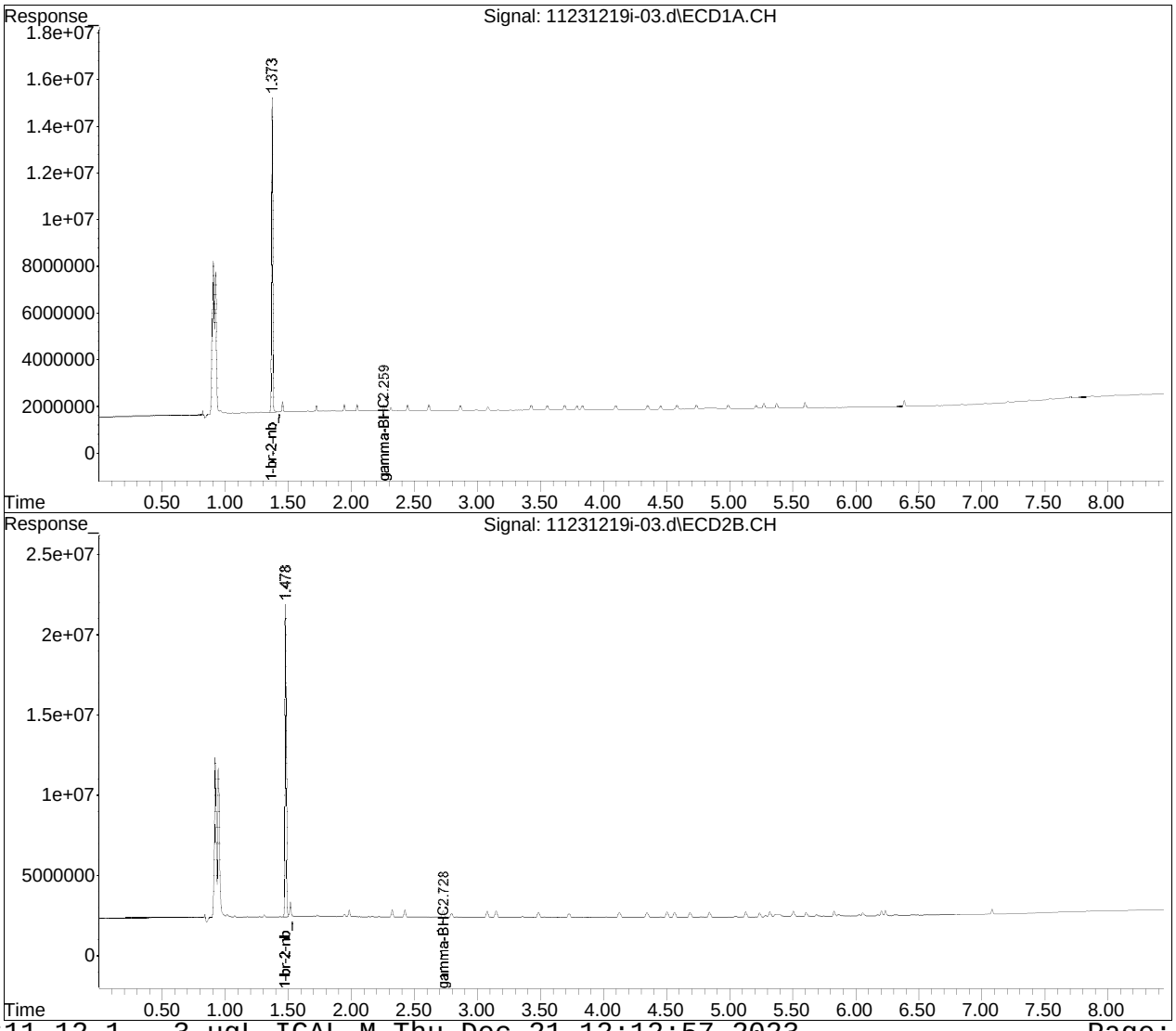
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest11\2023\231219ICAL\
Data File : 11231219i-03.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 19 Dec 2023 1:48 pm
Operator : PEST11:ejl
Sample : il1pest,42e,,pp 11406 L0.0005
Misc : WG1866910,ical (Sig #1); ical (Sig #2)
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 20 18:20:06 2023
Quant Method : I:\PEST\Pest11\2023\231219ICAL\pest11_12_19_23_ugL_ICAL.M
Quant Title : pest
QLast Update : Wed Dec 20 18:19:12 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

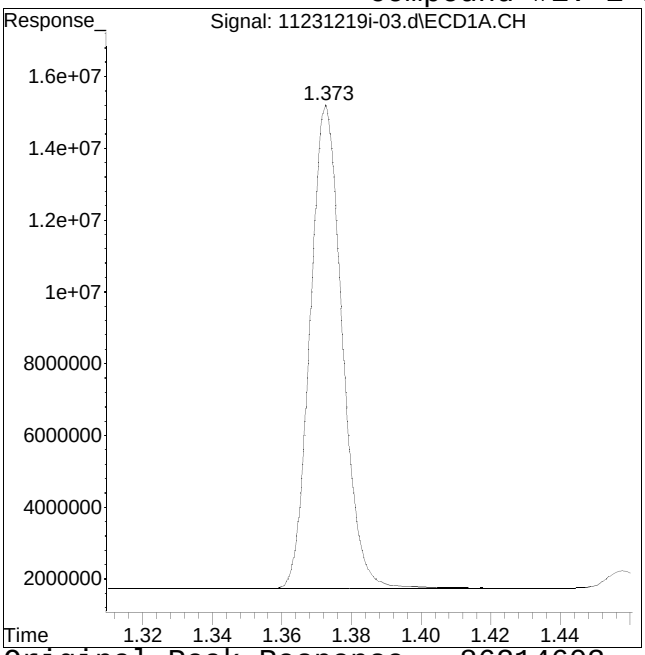
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



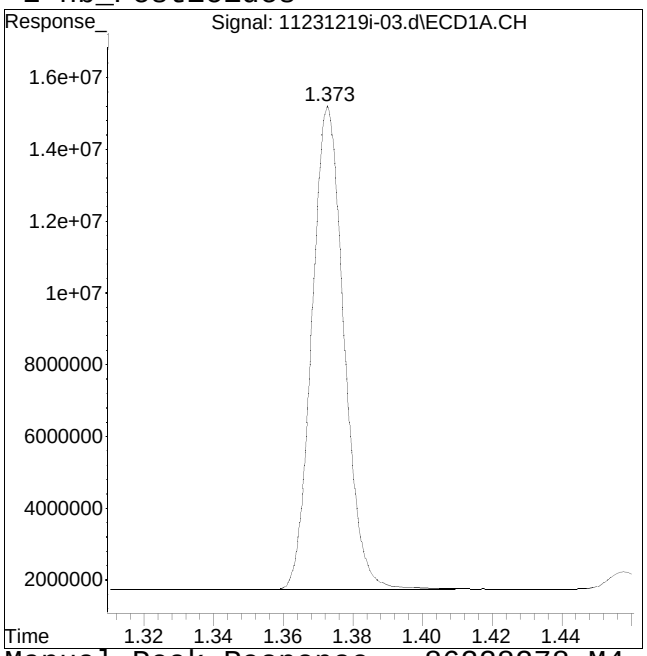
Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-03.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 1:48 pm Instrument : Pest 11
Sample : il1pest,42e,,pp 11406 L0.0Quant Date : 12/20/2023 6:19 pm

Compound #1: 1-br-2-nb_Pesticides



Original Peak Response = 86214603



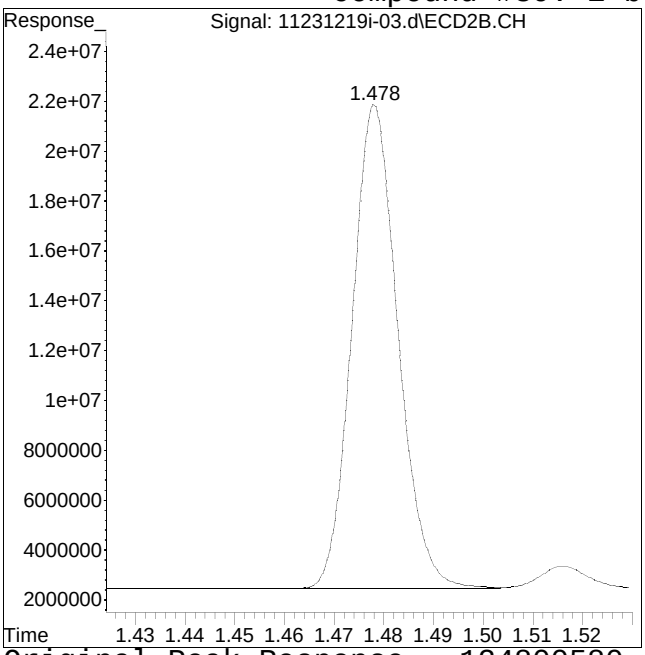
Manual Peak Response = 86228278 M4

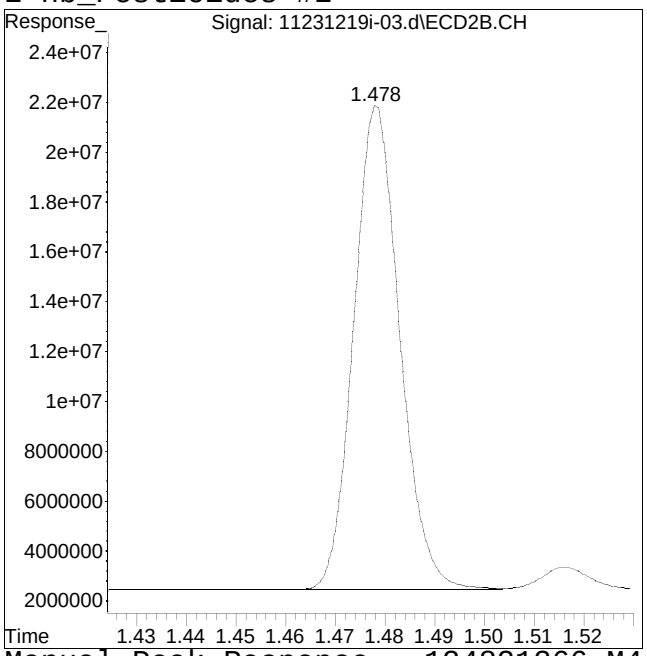
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-03.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 1:48 pm Instrument : Pest 11
Sample : il1pest,42e,,pp 11406 L0.0Quant Date : 12/20/2023 6:19 pm

Compound #39: 1-br-2-nb_Pesticides #2



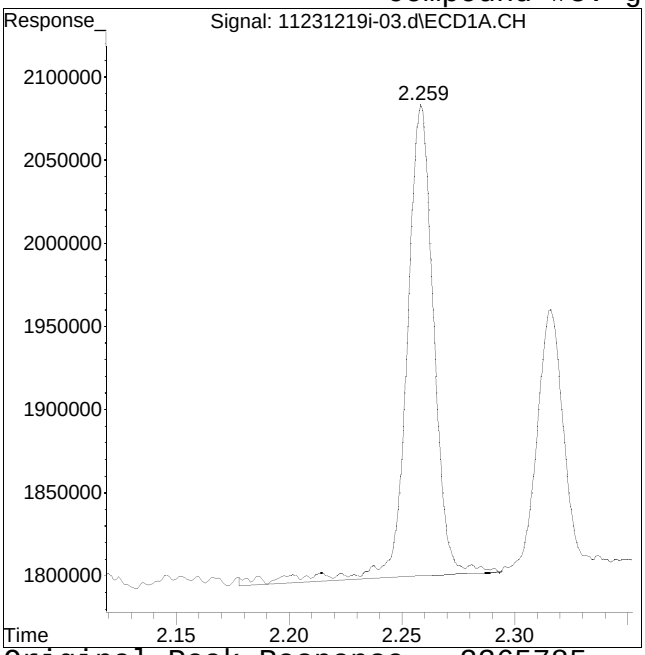


Original Peak Response = 124800580 Manual Peak Response = 124821266 M4
M4 = Poor automated baseline construction.

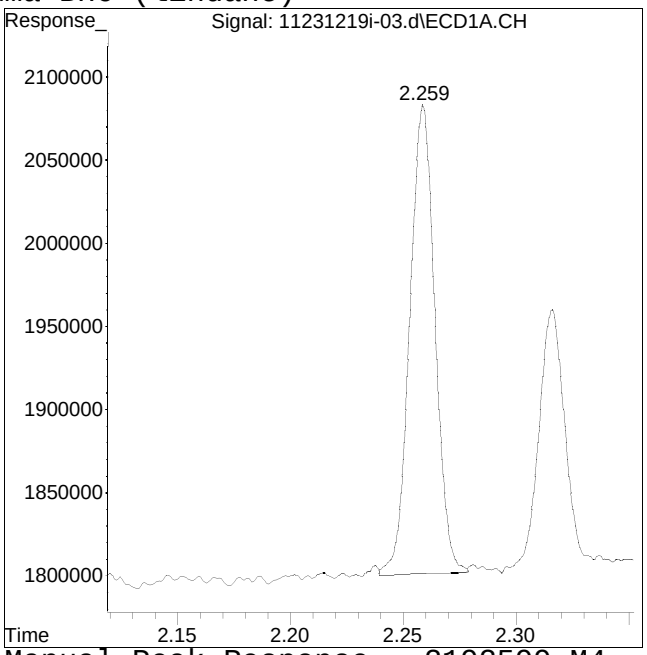
Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-03.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 1:48 pm Instrument : Pest 11
Sample : il1pest,42e,,pp 11406 L0.0Quant Date : 12/20/2023 6:19 pm

Compound #5: gamma-BHC (lindane)



Original Peak Response = 2365785



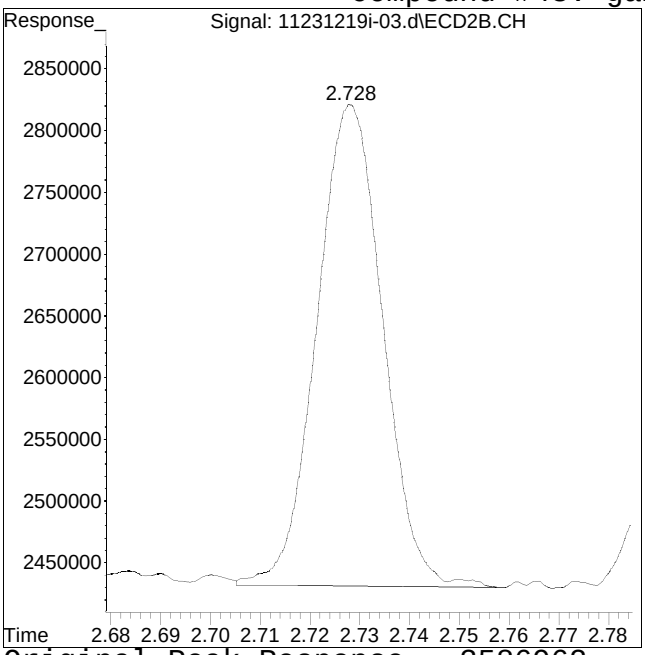
Manual Peak Response = 2192599 M4

M4 = Poor automated baseline construction.

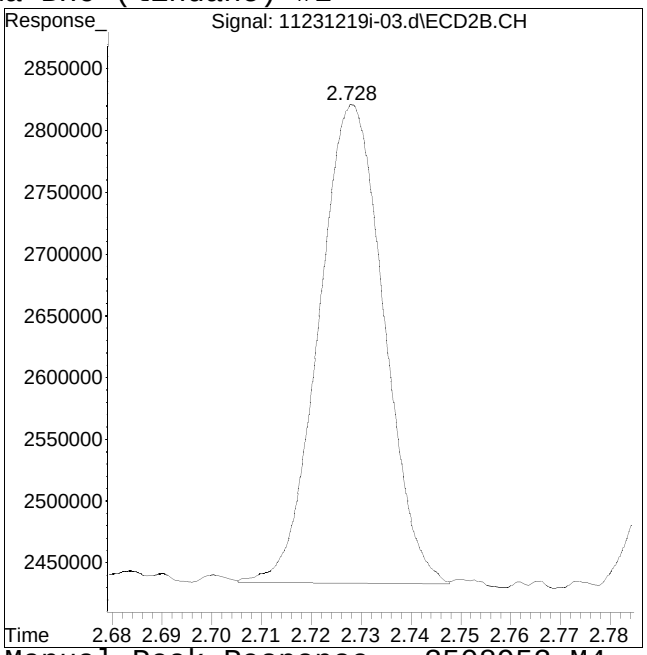
Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-03.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 1:48 pm Instrument : Pest 11
Sample : il1pest,42e,,pp 11406 L0.0Quant Date : 12/20/2023 6:19 pm

Compound #43: gamma-BHC (lindane) #2



Original Peak Response = 3586962



Manual Peak Response = 3508953 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2023\231219ICAL\
Data File : 11231219i-04.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 19 Dec 2023 2:00 pm
Operator : PEST11:ejl
Sample : il2pest,42e,,pp 11405 L0.001
Misc : WG1866910,ical (Sig #1); ical (Sig #2)
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 20 18:18:53 2023
Quant Method : I:\PEST\Pest11\2023\231219ICAL\pest11_12_19_23_ugL_ICAL.M
Quant Title : pest
QLast Update : Wed Dec 20 18:12:49 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	1.374	1.480	88093664	126.3E6	25.000M4	25.000M4
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.727	1.985	3596399	5591118	1.074M3	1.127
	Spiked Amount 50.000	Range 30 - 150		Recovery =		2.15%#	2.25%#
27) s	Decachlorobi	6.385	7.079	4450259	5484230	1.220M4	1.233M4
	Spiked Amount 50.000	Range 30 - 150		Recovery =		2.44%#	2.47%#
	Target Compounds						
3) t	Hexachlorobe	1.948	2.325	4380802	6719876	1.137M4	1.202M4
4) t	alpha-BHC	2.050	2.426	4334816	6902065	0.910M4	0.982M4
5) t	gamma-BHC (l	2.259	2.729	4331697	6831521	0.957M3	1.041M3
6) t	beta-BHC	2.316	2.796	2415822	3854536	1.137M3	1.238
7) t	delta-BHC	2.449	3.078	4481667	6824903	0.980M3	1.036
8) t	Heptachlor	2.617	3.149	4863667	7797887	1.062M3	1.158M4
9) t	Aldrin	2.868	3.485	4158145	6634643	0.994M4	1.080M4
10) t	Alachlor	2.992	3.357	780891	1114548	1.155M4	1.152M3
11) t	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12) t	Heptachlor E	3.428	4.126	4551473	7284836	1.089	1.193M4
13) t	gamma-Chlord	3.555	4.345	4252040	6241123	1.121M4	1.135M4
14) t	alpha-Chlord	3.693	4.504	4676341	7220637	1.079M4	1.189M4

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2023\231219ICAL\
Data File : 11231219i-04.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 19 Dec 2023 2:00 pm
Operator : PEST11:ejl
Sample : il2pest,42e,,pp 11405 L0.001
Misc : WG1866910,ical (Sig #1); ical (Sig #2)
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 20 18:18:53 2023
Quant Method : I:\PEST\Pest11\2023\231219ICAL\pest11_12_19_23_ugL_ICAL.M
Quant Title : pest
QLast Update : Wed Dec 20 18:12:49 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
15)	t	4,4'-DDE	3.790	4.685	3833304	5957655	0.962M4	1.053M4
16)	t	Endosulfan I	3.833	4.563	5277511	6433305	1.323M4	1.149M4
17)	t	Dieldrin	4.099	4.840	4515487	6296886	1.111	1.121M3
18)	t	Endrin	4.351	5.127	4294911	6266919	1.032M4	1.112M4
19)	t	4,4'-DDD	4.452	5.237	3214187	4791610	0.974M4	1.066M4
20)	t	Endosulfan I	4.582	5.318	4178389	5742914	1.095M4	1.134M4
21)	t	4,4'-DDT	4.737	5.506	4120202	6125400	1.059	1.173M4
22)	t	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d
23)	t	Methoxychlor	5.210	6.055	3210271	3743226	1.373M4	1.246M4
24)	t	Mirex	5.272	6.204	4559090	5788306	1.220M4	1.277
25)	t	Endosulfan S	5.374	5.828	4222987	5821411	1.130M3	1.183M4
26)	t	Endrin Keton	5.597	6.235	4634335	5964090	1.094M4	1.120M4
29)	l1	chlordane-1	0.000	0.000	0	0	N.D.	N.D.
30)	l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31)	l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32)	l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum	chlordane-1			0	0	N.D.	N.D.
Average		chlordane-1					0.000	0.000
34)	l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
35)	l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d
36)	l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37)	l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum	toxaphene-2			0	0	N.D.	N.D.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2023\231219ICAL\
Data File : 11231219i-04.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 19 Dec 2023 2:00 pm
Operator : PEST11:ejl
Sample : il2pest,42e,,pp 11405 L0.001
Misc : WG1866910,ical (Sig #1); ical (Sig #2)
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 20 18:18:53 2023
Quant Method : I:\PEST\Pest11\2023\231219ICAL\pest11_12_19_23_ugL_ICAL.M
Quant Title : pest
QLast Update : Wed Dec 20 18:12:49 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Average toxaphene-2					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument						
Sum toxaphene-2			0	0	N.D.	N.D.
Average toxaphene-2					0.000	0.000

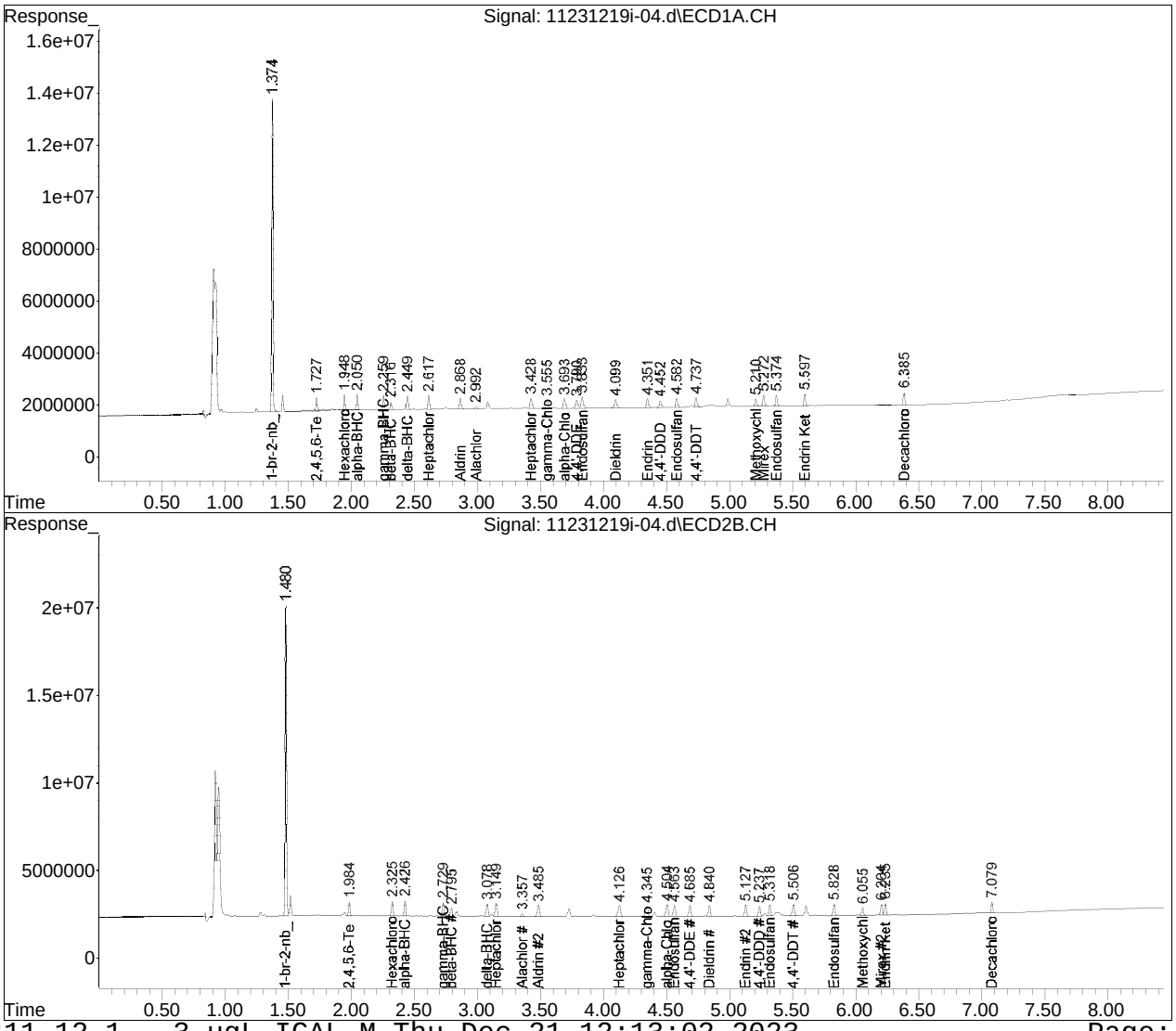
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest11\2023\231219ICAL\
Data File : 11231219i-04.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 19 Dec 2023 2:00 pm
Operator : PEST11:ejl
Sample : il2pest,42e,,pp 11405 L0.001
Misc : WG1866910,ical (Sig #1); ical (Sig #2)
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 20 18:18:53 2023
Quant Method : I:\PEST\Pest11\2023\231219ICAL\pest11_12_19_23_ugL_ICAL.M
Quant Title : pest
QLast Update : Wed Dec 20 18:12:49 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

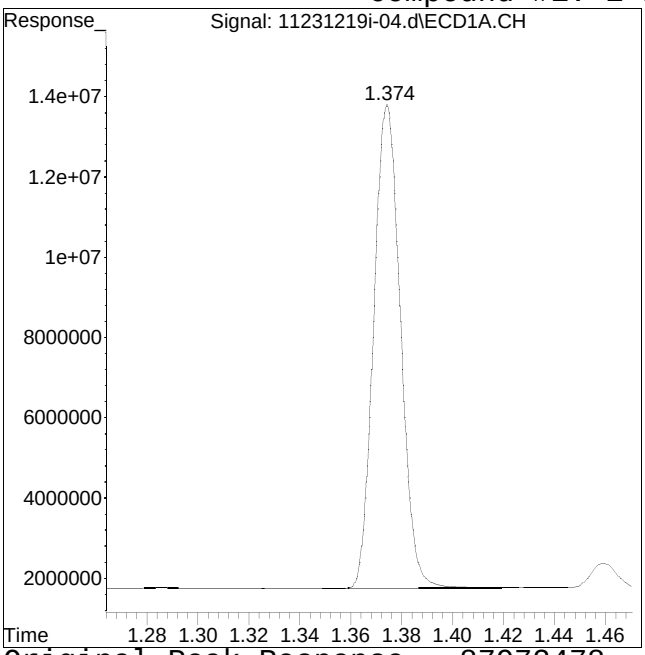
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

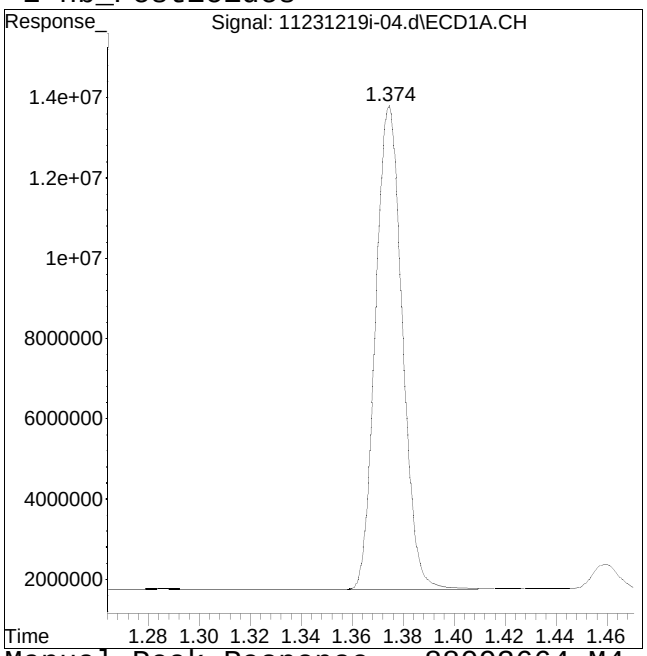


Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-04.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 2:00 pm Instrument : Pest 11
Sample : il2pest,42e,,pp 11405 L0.0Quant Date : 12/20/2023 6:13 pm

Compound #1: 1-br-2-nb_Pesticides



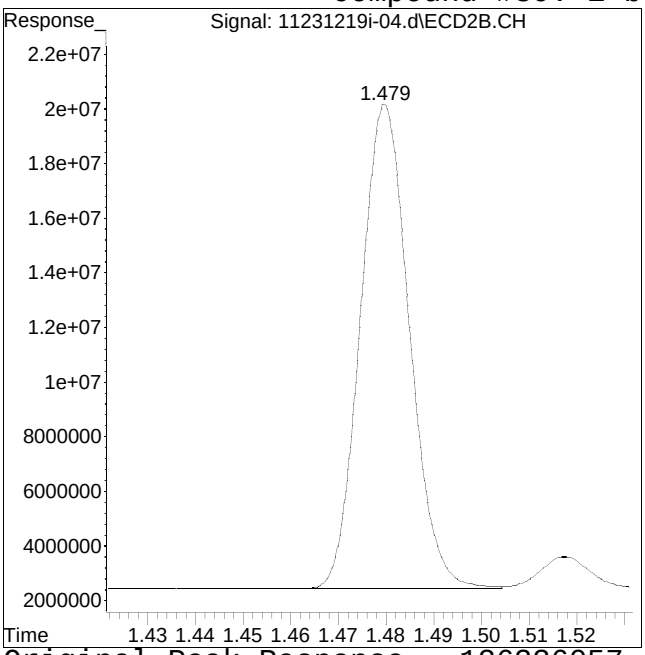


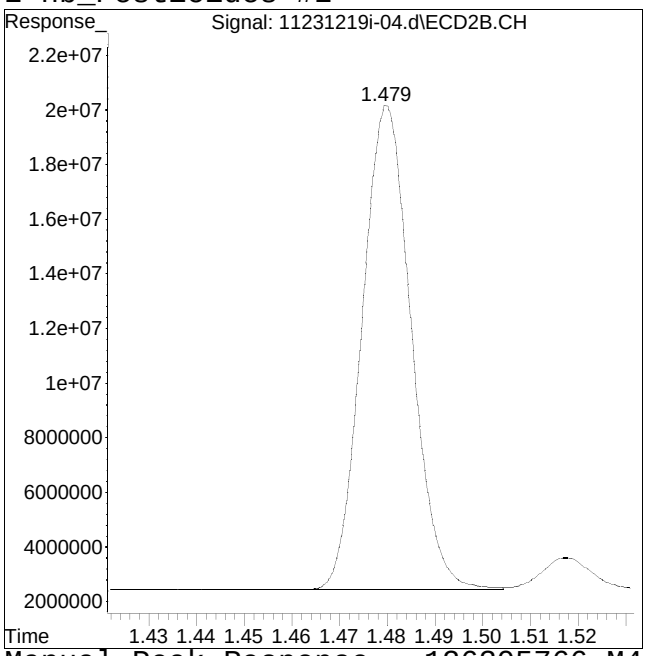
Original Peak Response = 87972478 Manual Peak Response = 88093664 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-04.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 2:00 pm Instrument : Pest 11
Sample : il2pest,42e,,pp 11405 L0.0Quant Date : 12/20/2023 6:13 pm

Compound #39: 1-br-2-nb_Pesticides #2



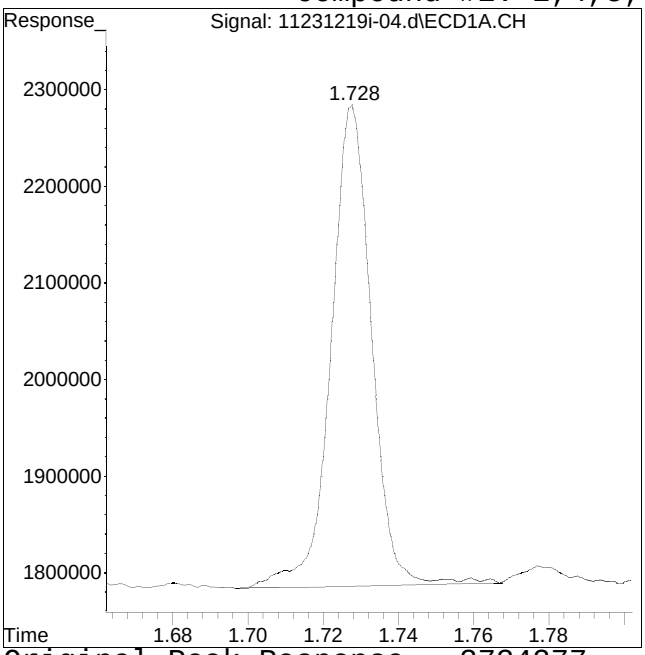


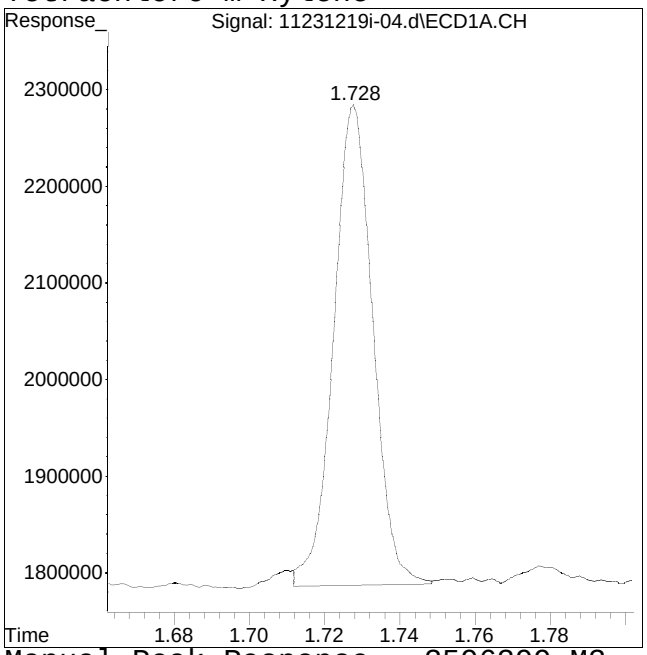
Original Peak Response = 126336057 Manual Peak Response = 126305766 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-04.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 2:00 pm Instrument : Pest 11
Sample : il2pest,42e,,pp 11405 L0.0Quant Date : 12/20/2023 6:13 pm

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



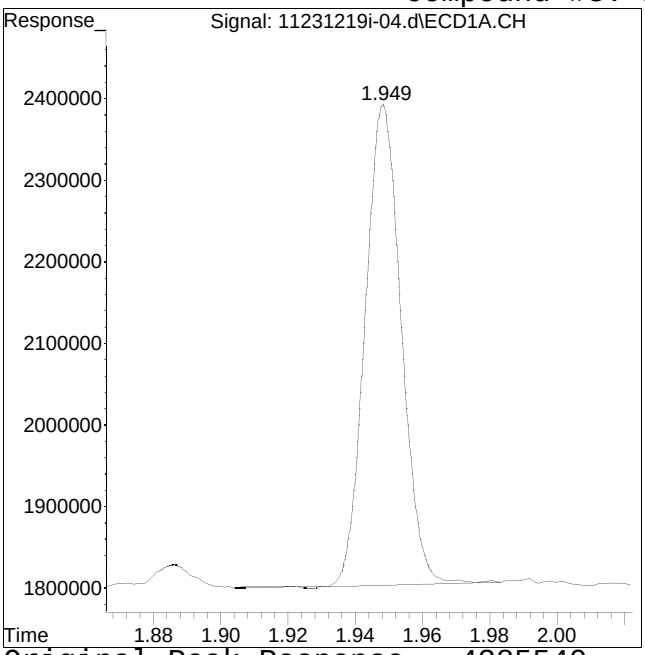


Original Peak Response = 3734277 Manual Peak Response = 3596399 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

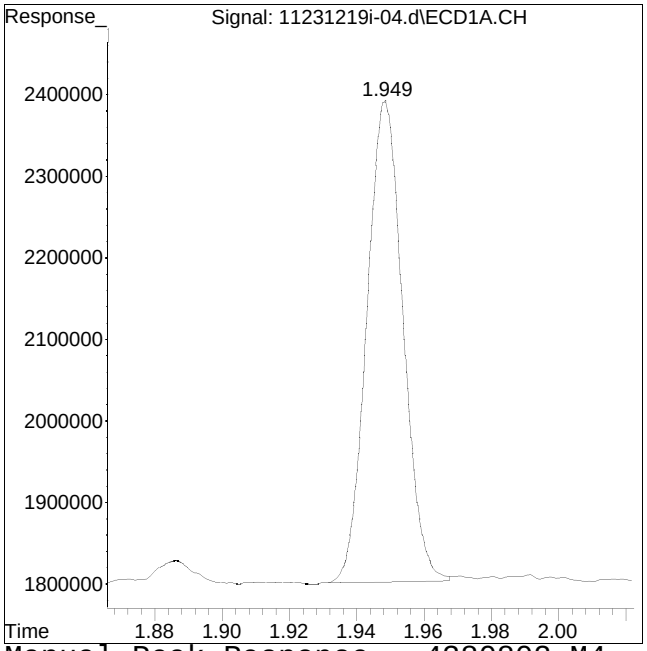
Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-04.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 2:00 pm Instrument : Pest 11
Sample : il2pest,42e,,pp 11405 L0.0Quant Date : 12/20/2023 6:13 pm

Compound #3: Hexachlorobenzene



Original Peak Response = 4385540



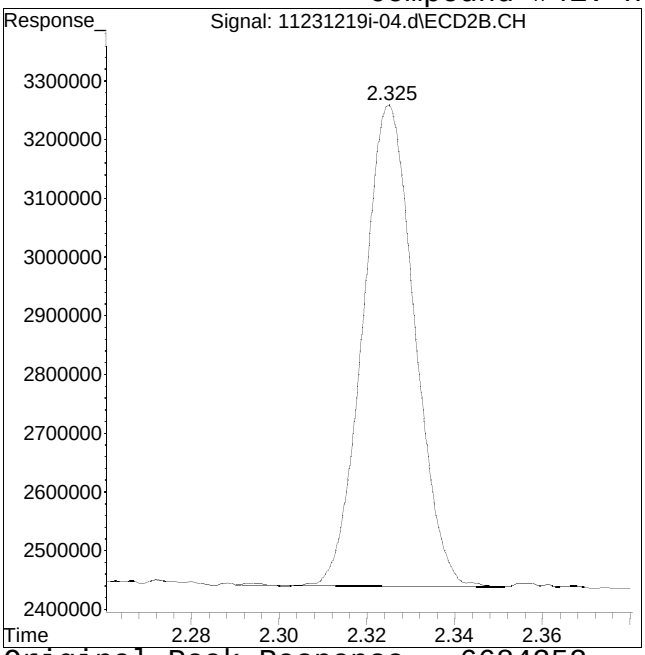
Manual Peak Response = 4380802 M4

M4 = Poor automated baseline construction.

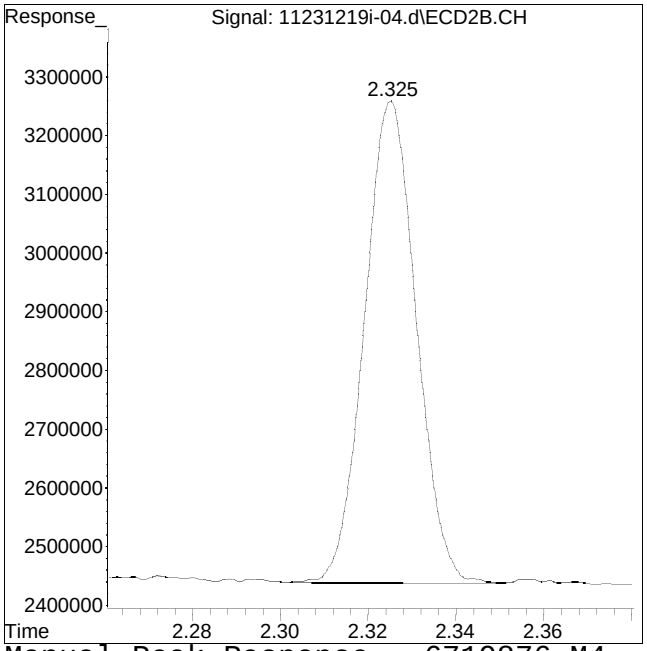
Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-04.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 2:00 pm Instrument : Pest 11
Sample : il2pest,42e,,pp 11405 L0.0Quant Date : 12/20/2023 6:13 pm

Compound #41: Hexachlorobenzene #2



Original Peak Response = 6684352



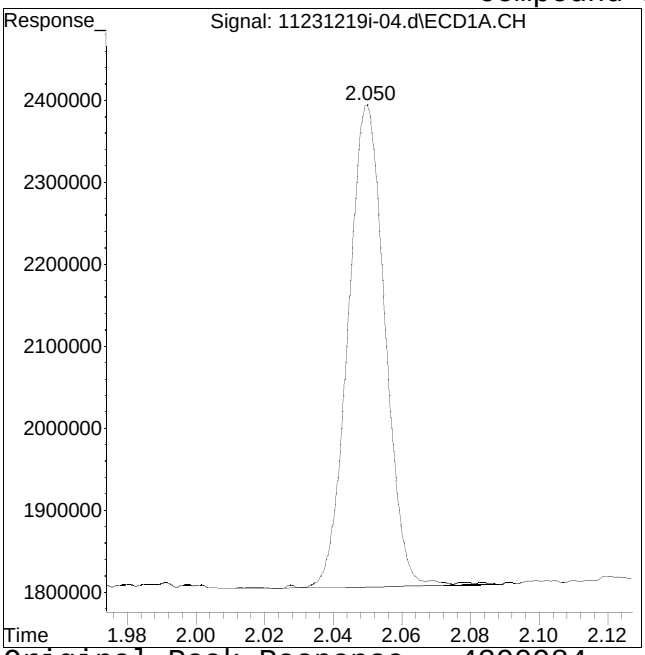
Manual Peak Response = 6719876 M4

M4 = Poor automated baseline construction.

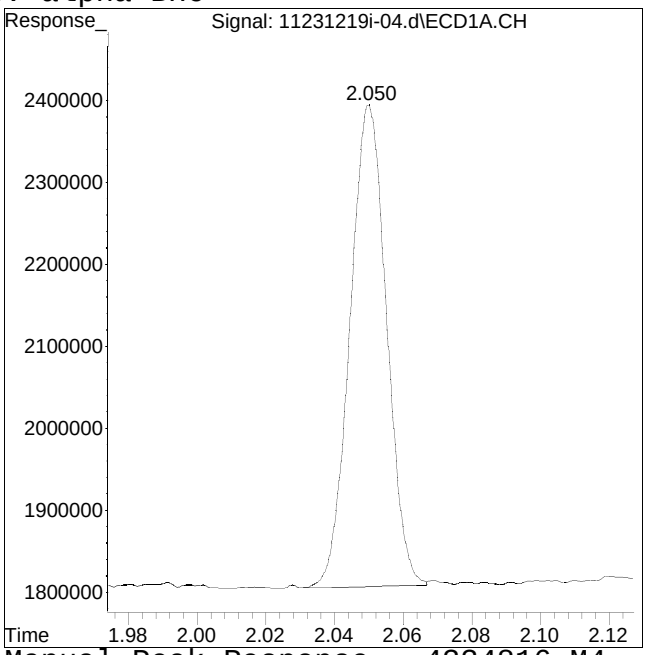
Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-04.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 2:00 pm Instrument : Pest 11
Sample : il2pest,42e,,pp 11405 L0.0Quant Date : 12/20/2023 6:13 pm

Compound #4: alpha-BHC



Original Peak Response = 4390984



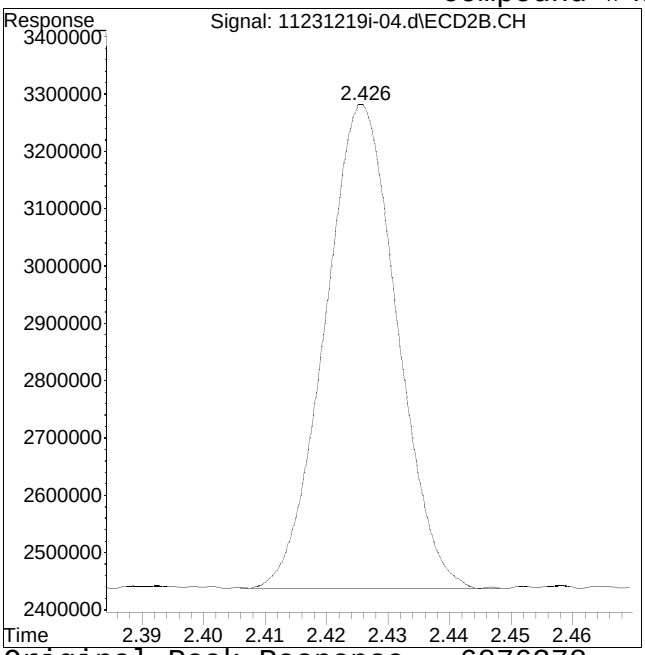
Manual Peak Response = 4334816 M4

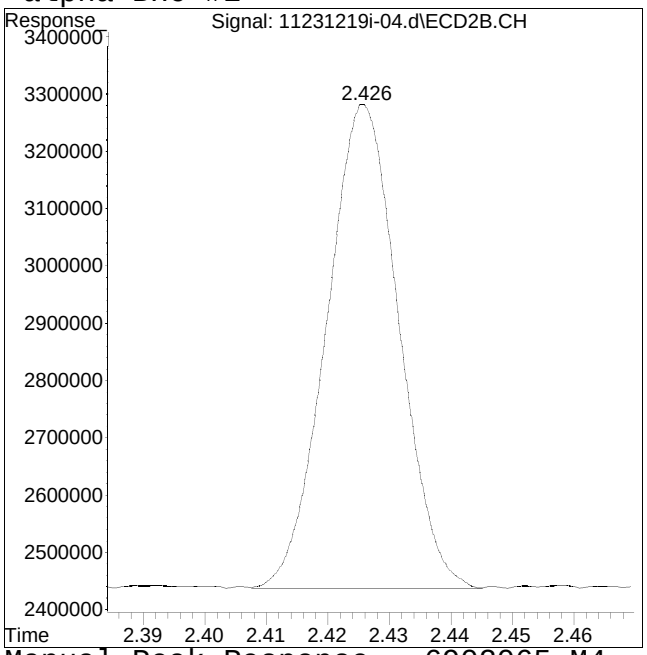
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-04.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 2:00 pm Instrument : Pest 11
Sample : il2pest,42e,,pp 11405 L0.0Quant Date : 12/20/2023 6:13 pm

Compound #42: alpha-BHC #2



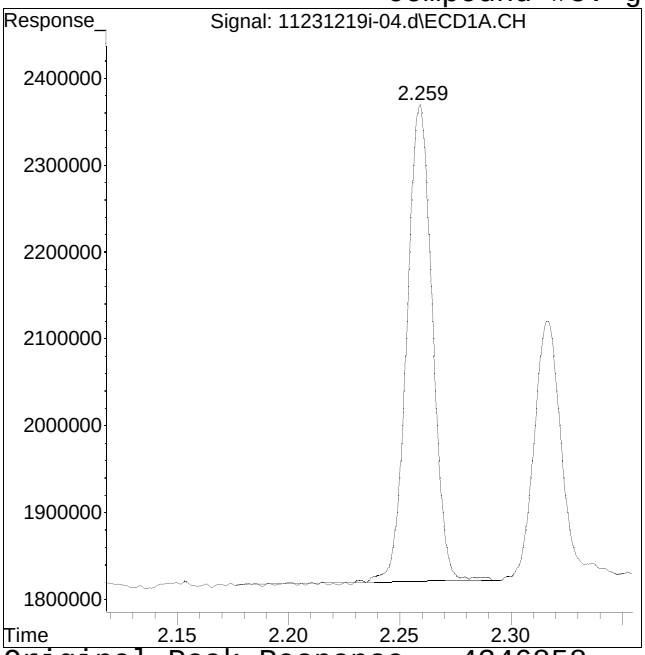


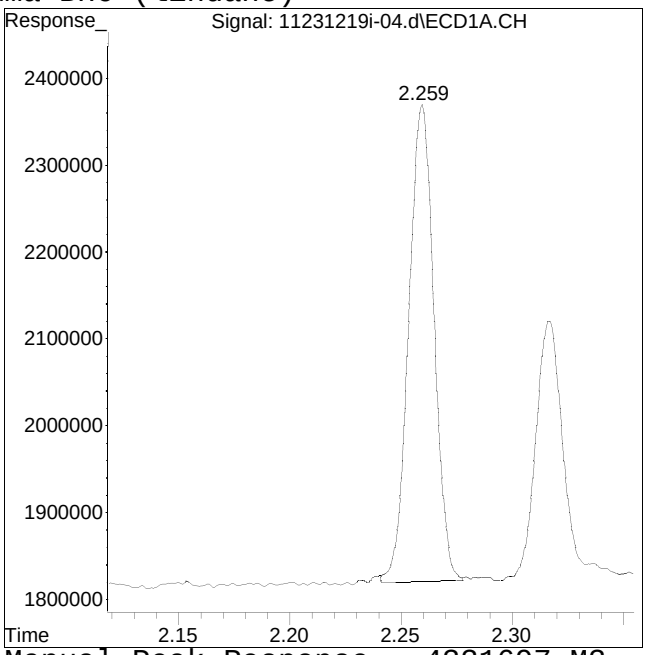
Original Peak Response = 6876378 Manual Peak Response = 6902065 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-04.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 2:00 pm Instrument : Pest 11
Sample : il2pest,42e,,pp 11405 L0.0Quant Date : 12/20/2023 6:13 pm

Compound #5: gamma-BHC (lindane)



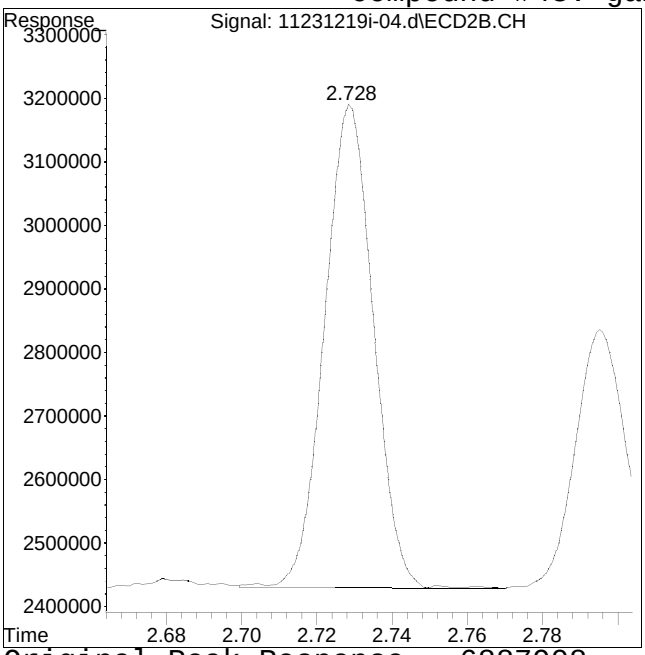


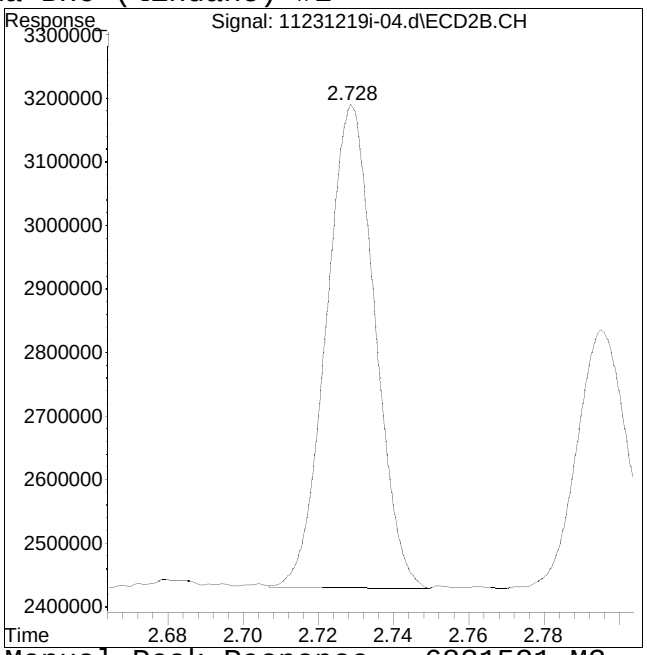
Original Peak Response = 4346858 Manual Peak Response = 4331697 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-04.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 2:00 pm Instrument : Pest 11
Sample : il2pest,42e,,pp 11405 L0.0Quant Date : 12/20/2023 6:13 pm

Compound #43: gamma-BHC (lindane) #2



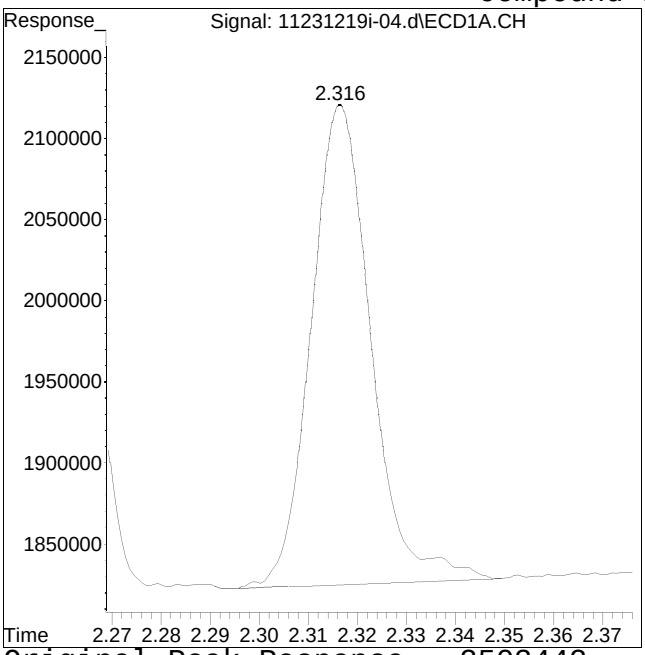


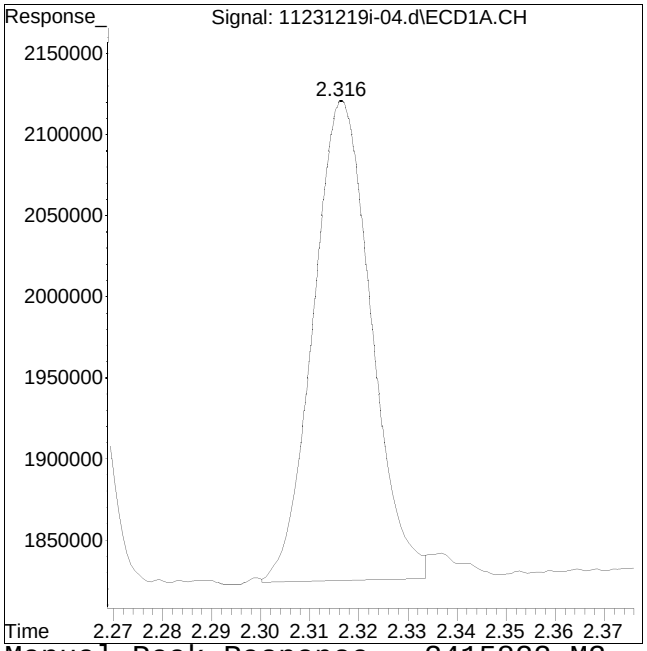
Original Peak Response = 6887908 Manual Peak Response = 6831521 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-04.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 2:00 pm Instrument : Pest 11
Sample : il2pest,42e,,pp 11405 L0.0Quant Date : 12/20/2023 6:13 pm

Compound #6: beta-BHC



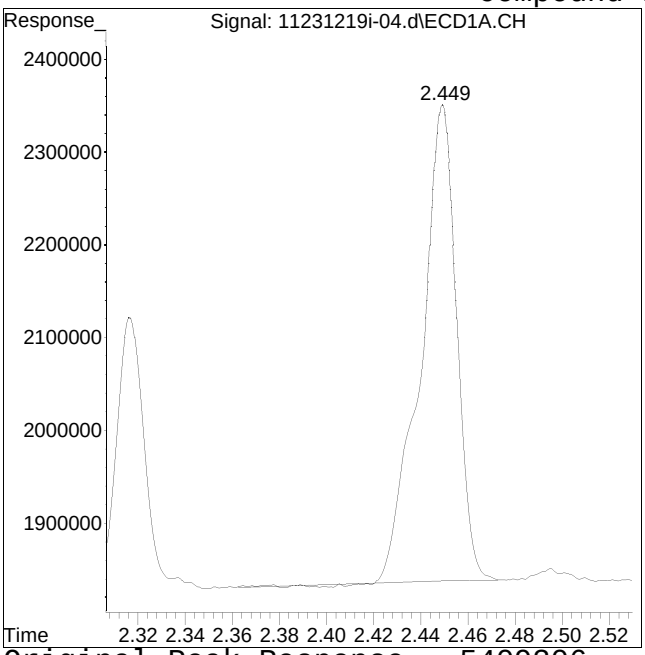


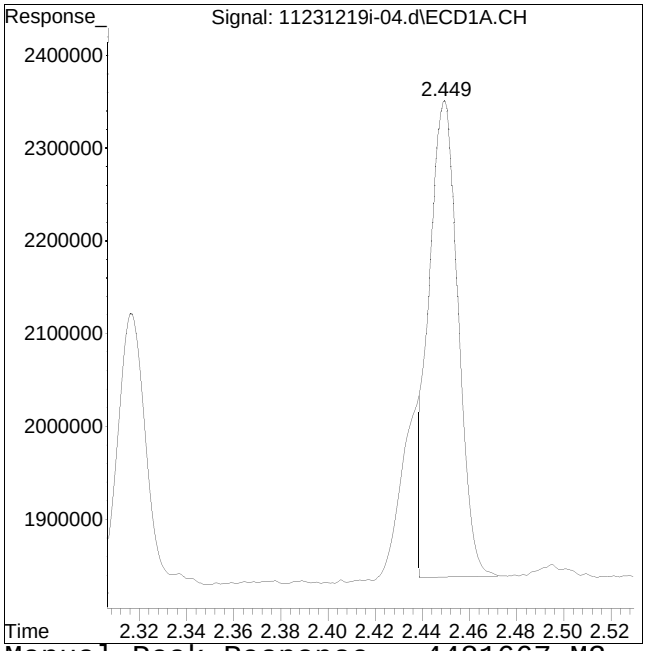
Original Peak Response = 2503442 Manual Peak Response = 2415822 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-04.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 2:00 pm Instrument : Pest 11
Sample : il2pest,42e,,pp 11405 L0.0Quant Date : 12/20/2023 6:13 pm

Compound #7: delta-BHC



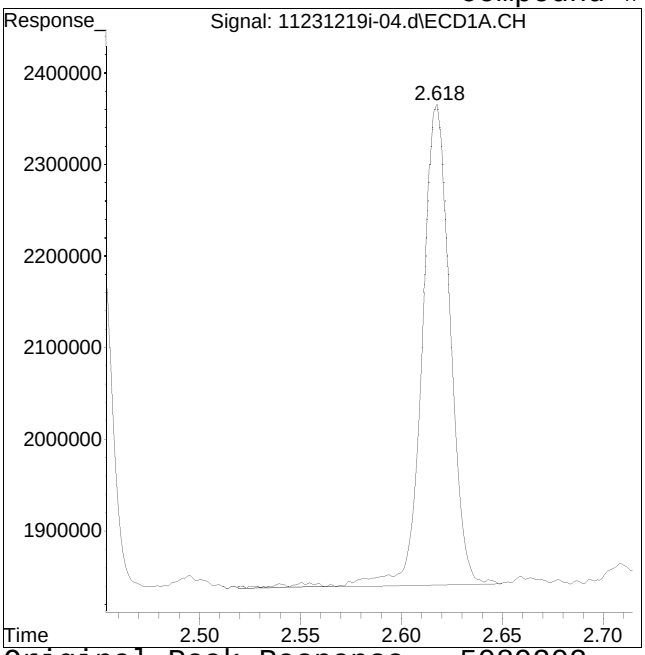


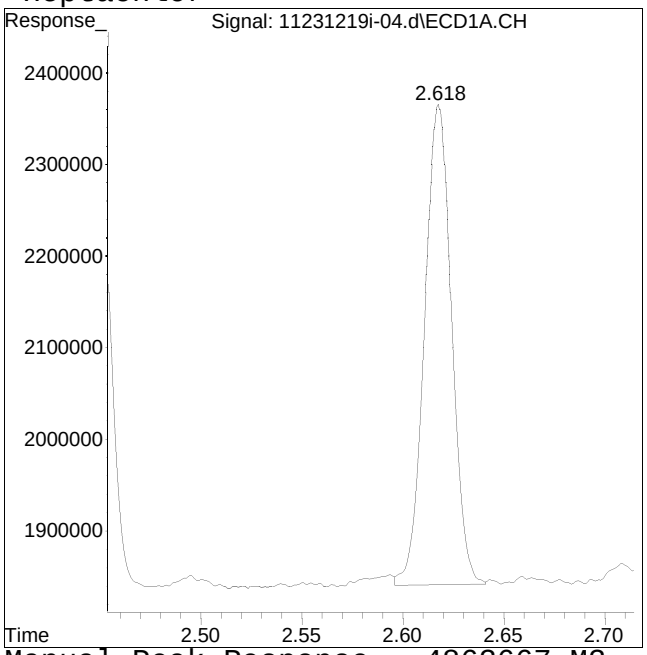
Original Peak Response = 5409306 Manual Peak Response = 4481667 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-04.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 2:00 pm Instrument : Pest 11
Sample : il2pest,42e,,pp 11405 L0.0Quant Date : 12/20/2023 6:13 pm

Compound #8: Heptachlor



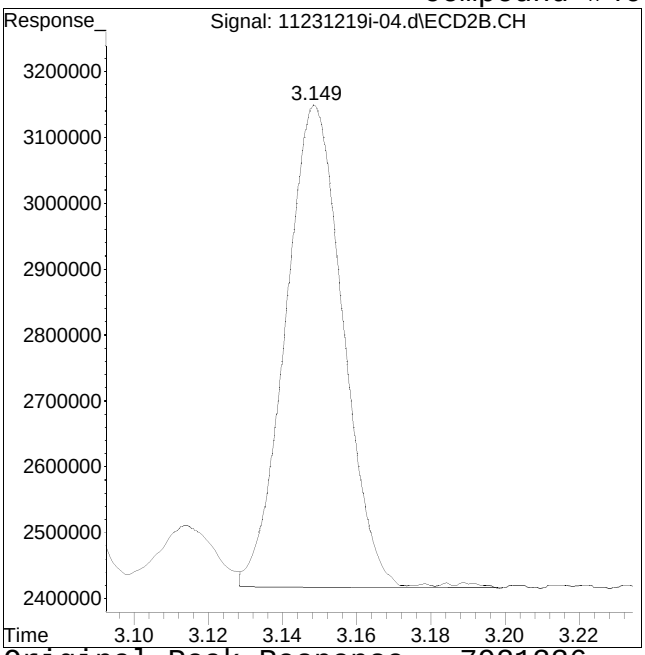


Original Peak Response = 5089202 Manual Peak Response = 4863667 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

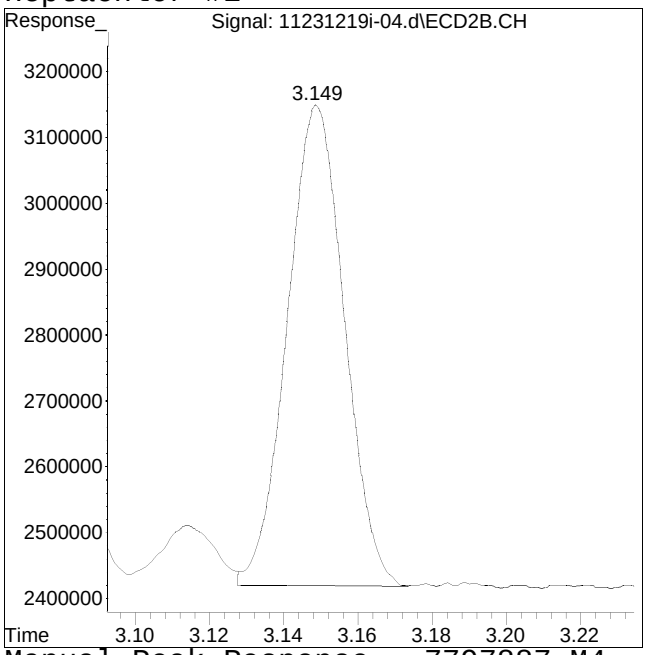
Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-04.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 2:00 pm Instrument : Pest 11
Sample : il2pest,42e,,pp 11405 L0.0Quant Date : 12/20/2023 6:13 pm

Compound #46: Heptachlor #2



Original Peak Response = 7921336



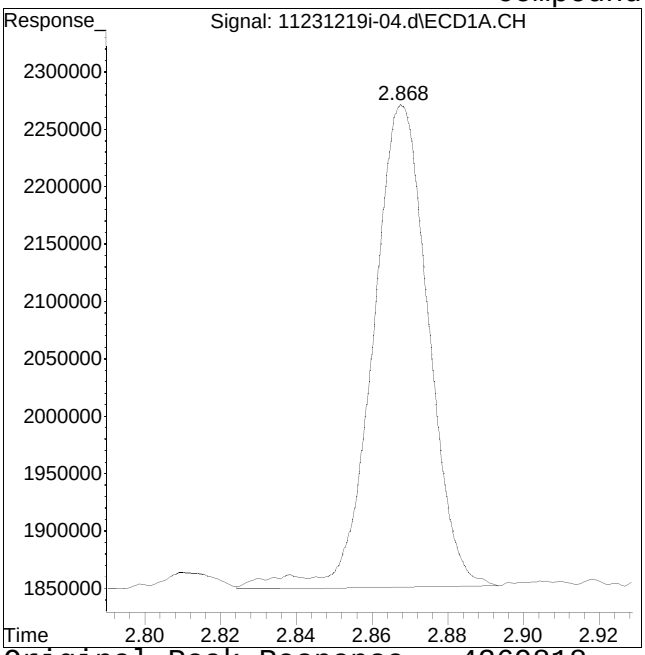
Manual Peak Response = 7797887 M4

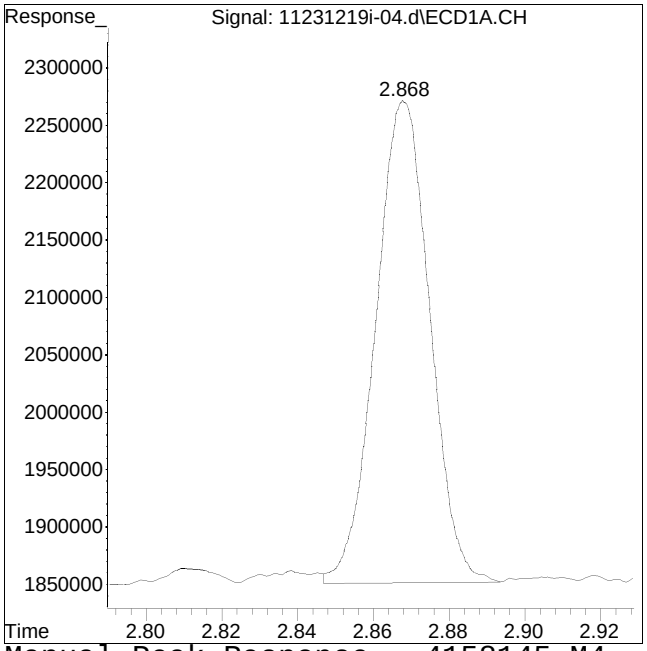
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-04.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 2:00 pm Instrument : Pest 11
Sample : il2pest,42e,,pp 11405 L0.0Quant Date : 12/20/2023 6:13 pm

Compound #9: Aldrin



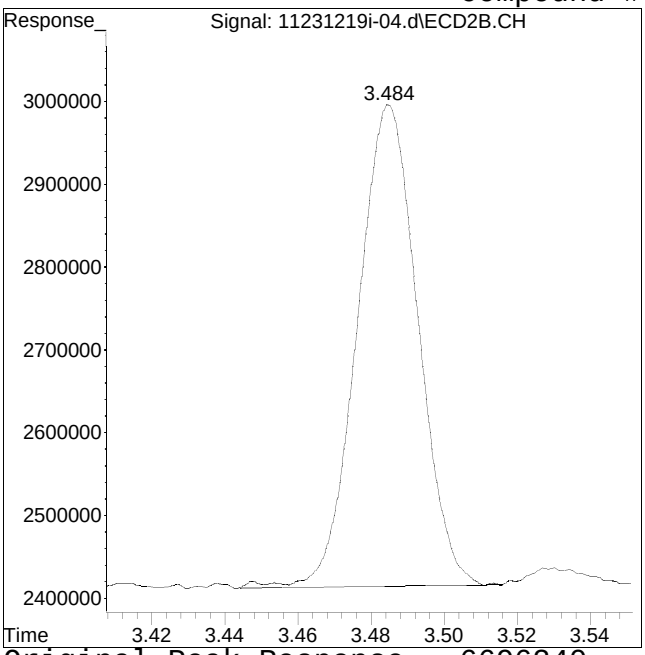


Original Peak Response = 4269818 Manual Peak Response = 4158145 M4
M4 = Poor automated baseline construction.

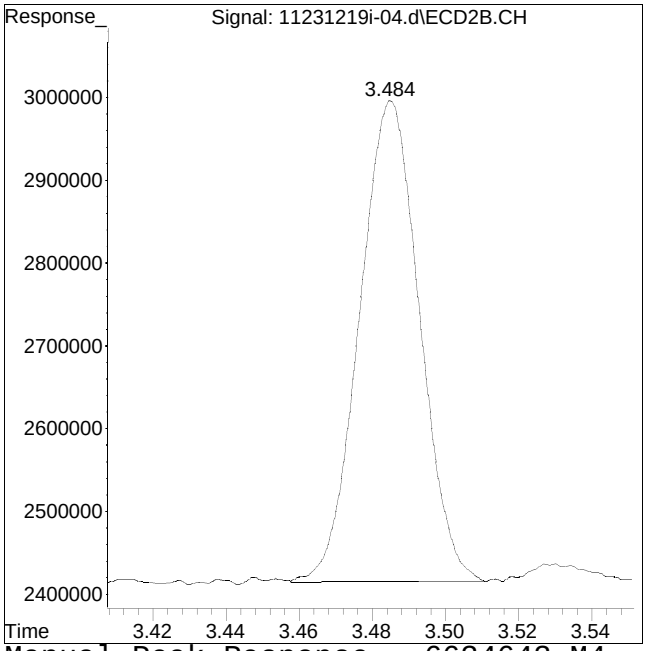
Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-04.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 2:00 pm Instrument : Pest 11
Sample : il2pest,42e,,pp 11405 L0.0Quant Date : 12/20/2023 6:13 pm

Compound #47: Aldrin #2



Original Peak Response = 6696240



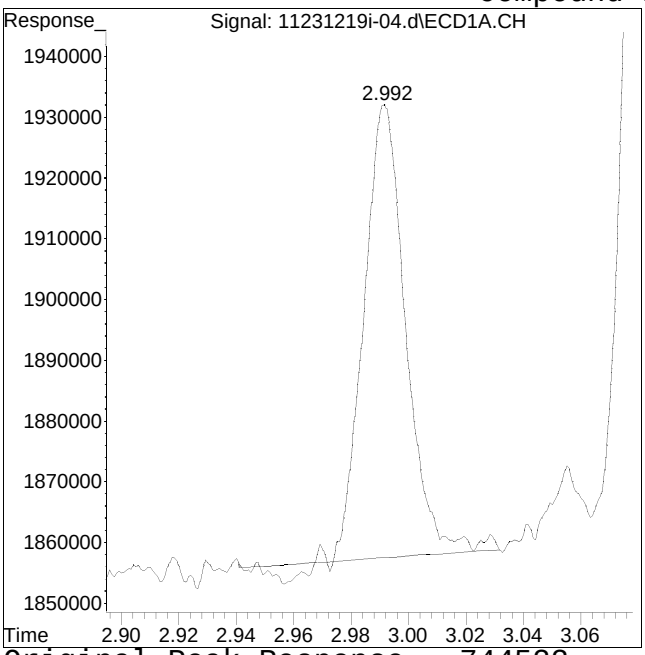
Manual Peak Response = 6634643 M4

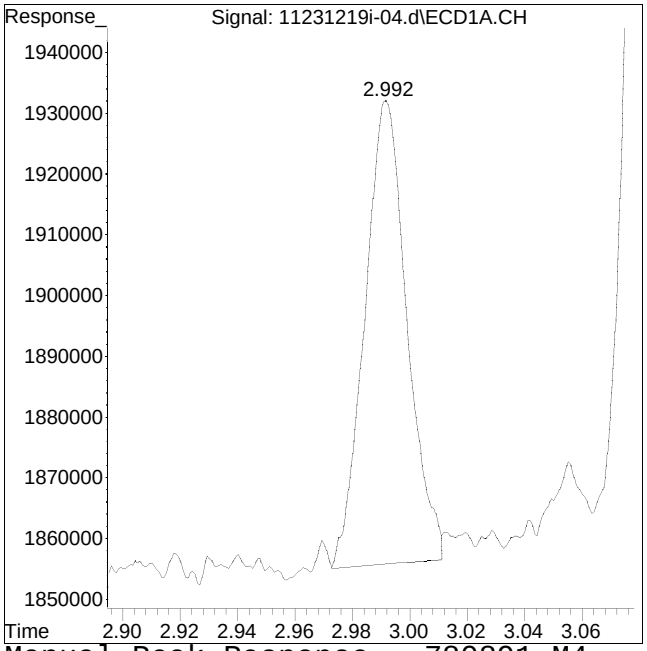
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-04.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 2:00 pm Instrument : Pest 11
Sample : il2pest,42e,,pp 11405 L0.0Quant Date : 12/20/2023 6:13 pm

Compound #10: Alachlor



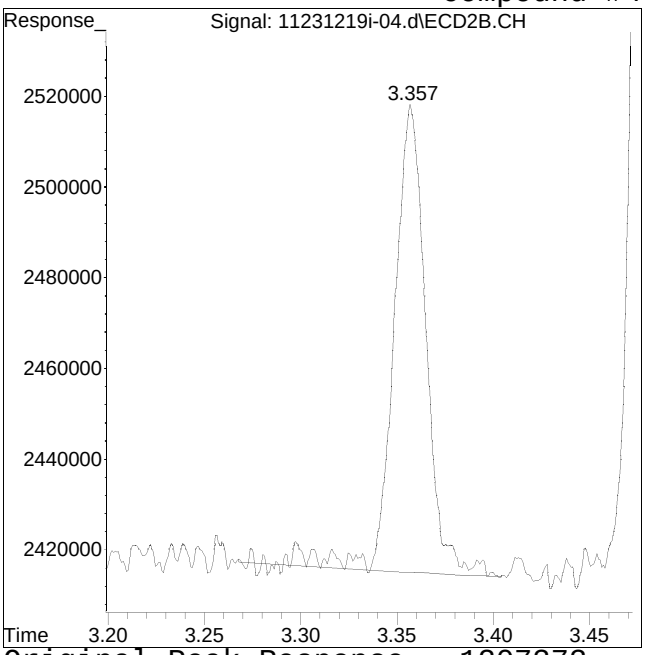


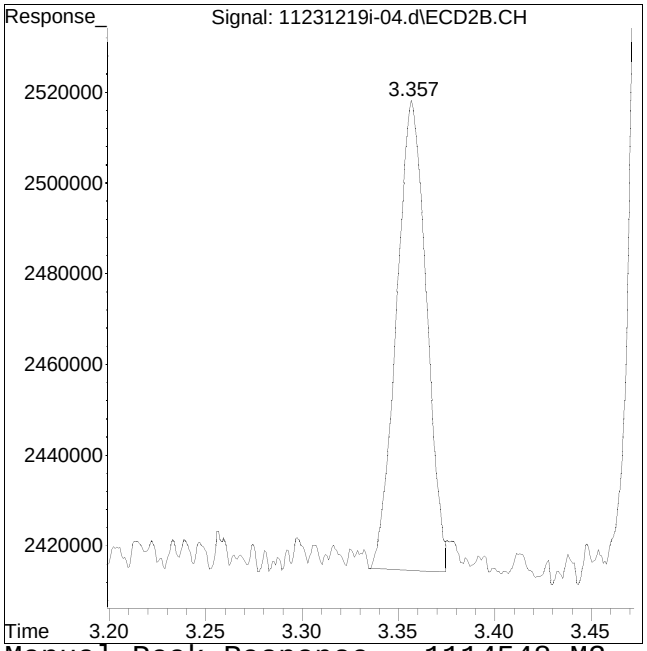
Original Peak Response = 744522 Manual Peak Response = 780891 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-04.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 2:00 pm Instrument : Pest 11
Sample : il2pest,42e,,pp 11405 L0.0Quant Date : 12/20/2023 6:13 pm

Compound #48: Alachlor #2



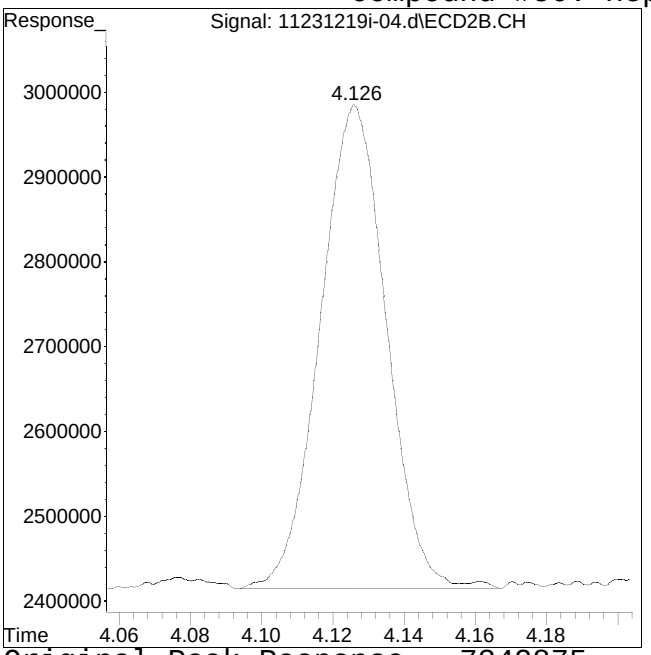


Original Peak Response = 1207373 Manual Peak Response = 1114548 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

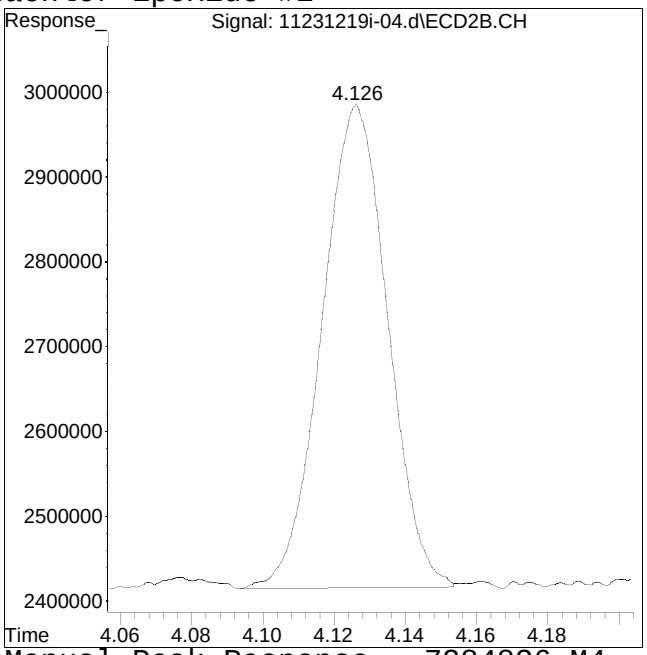
Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-04.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 2:00 pm Instrument : Pest 11
Sample : il2pest,42e,,pp 11405 L0.0Quant Date : 12/20/2023 6:13 pm

Compound #50: Heptachlor Epoxide #2



Original Peak Response = 7342875



Manual Peak Response = 7284836 M4

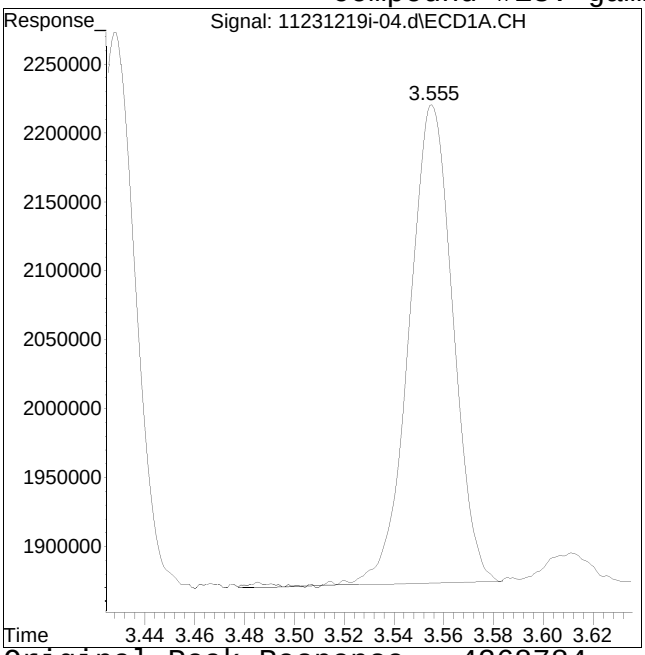
M4 = Poor automated baseline construction.

Manual Integration Report

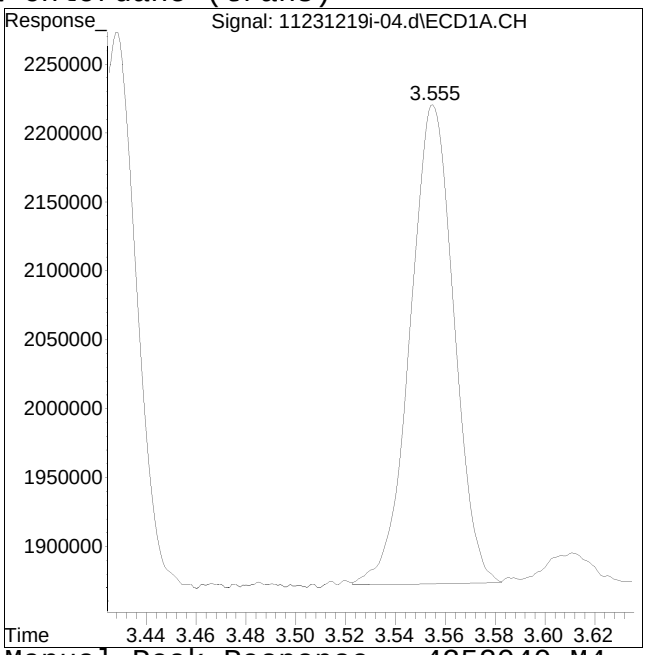
Data Path : I:\PEST\Pest11\2023\231219Q
Data File : 11231219i-04.d
Date Inj'd : 12/19/2023 2:00 pm
Sample : il2pest,42e,,pp 11405 L0.0

Method : pest11_12_19_23_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 12/20/2023 6:13 pm

Compound #13: gamma-Chlordane (trans)



Original Peak Response = 4268784



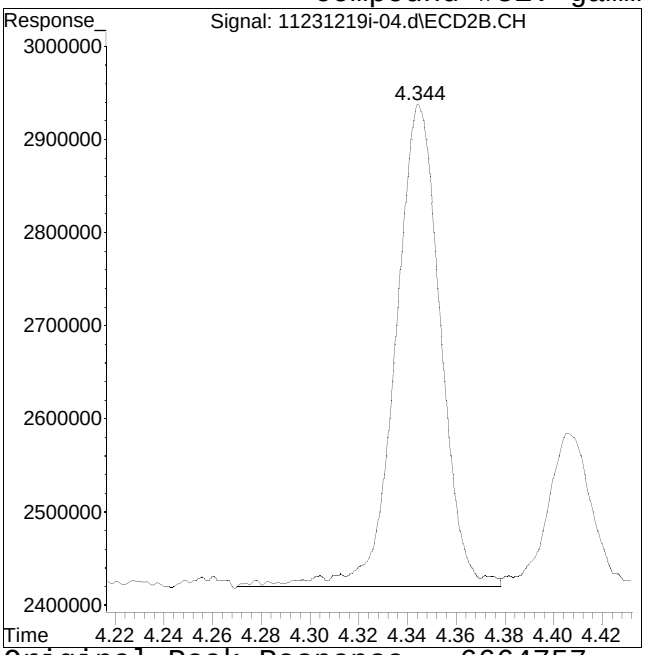
Manual Peak Response = 4252040 M4

M4 = Poor automated baseline construction.

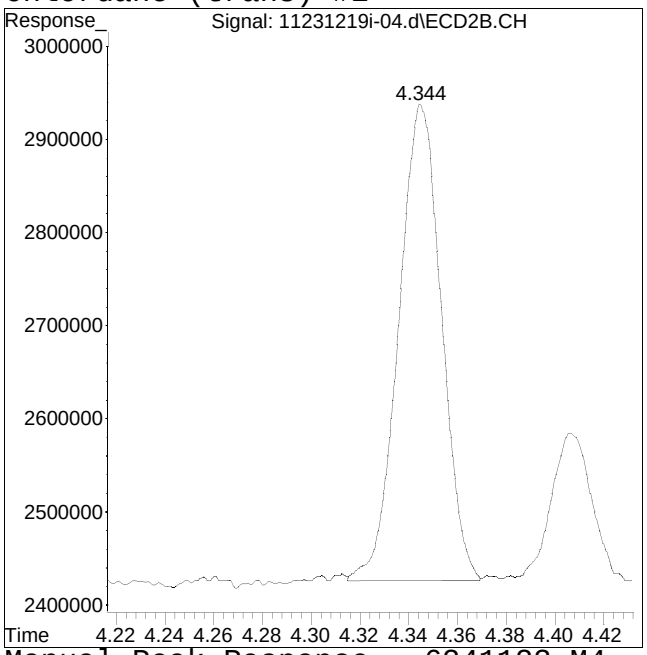
Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-04.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 2:00 pm Instrument : Pest 11
Sample : il2pest,42e,,pp 11405 L0.0Quant Date : 12/20/2023 6:13 pm

Compound #51: gamma-Chlordane (trans) #2



Original Peak Response = 6664757



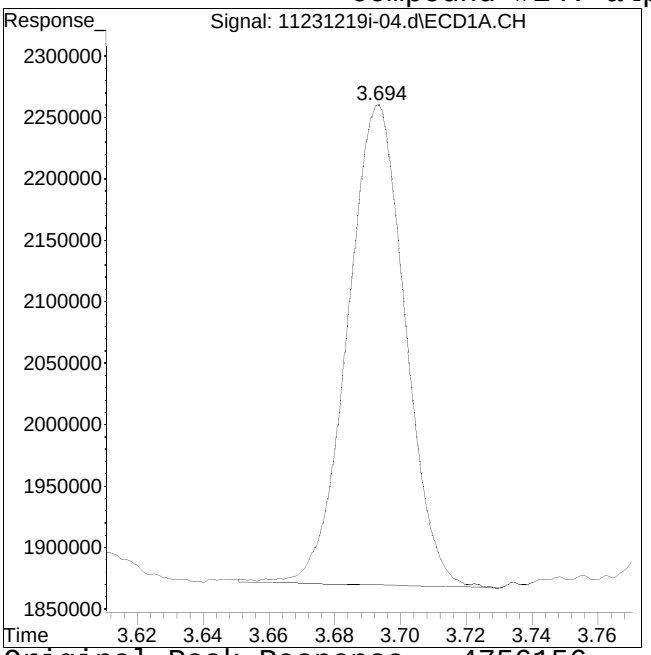
Manual Peak Response = 6241123 M4

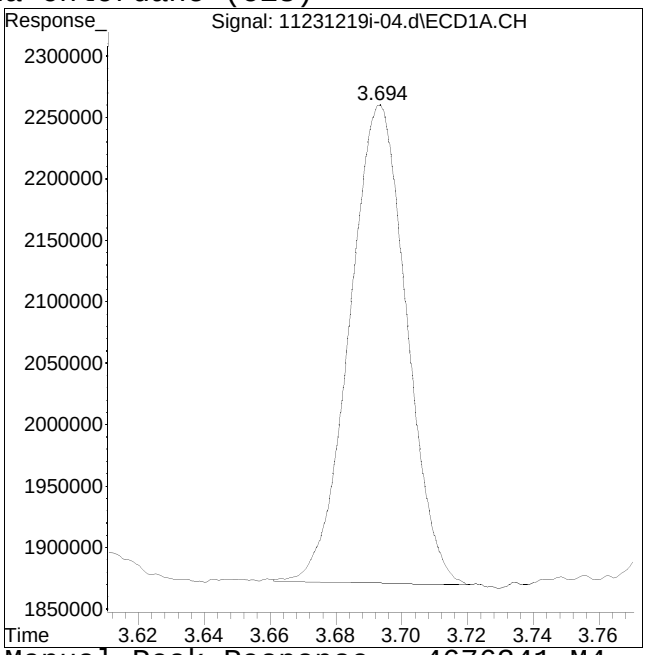
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-04.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 2:00 pm Instrument : Pest 11
Sample : il2pest,42e,,pp 11405 L0.0Quant Date : 12/20/2023 6:13 pm

Compound #14: alpha-Chlordane (cis)



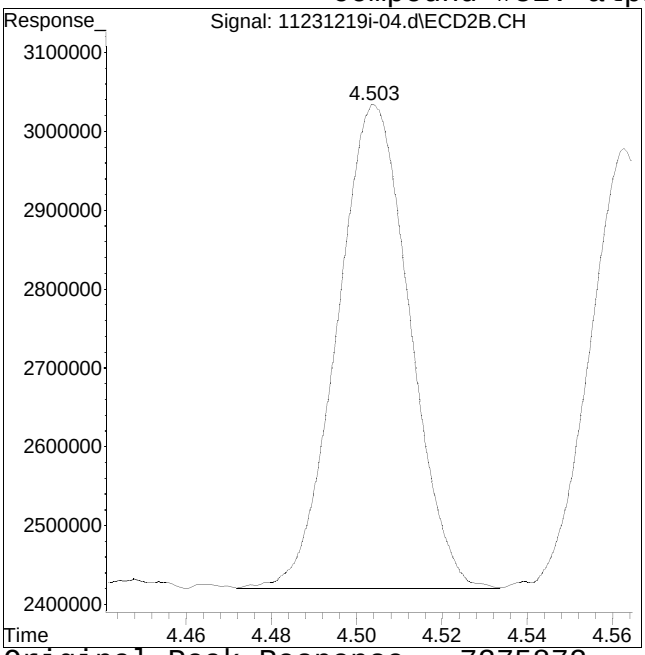


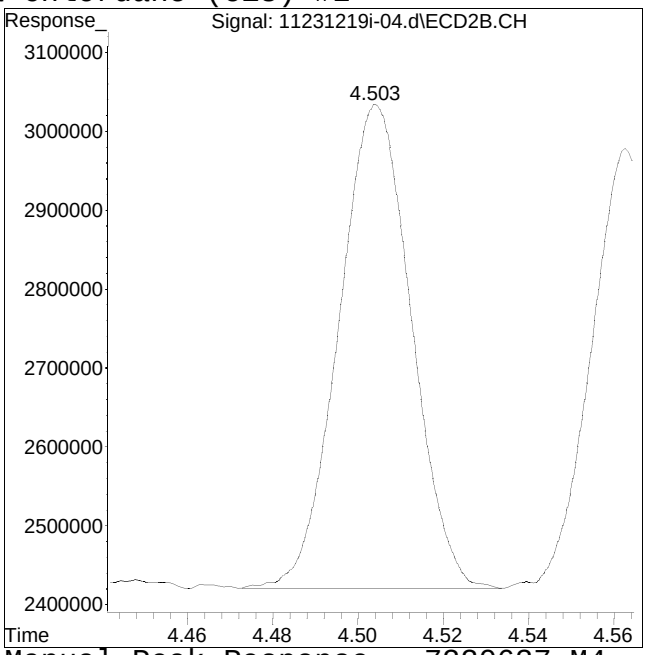
Original Peak Response = 4756156 Manual Peak Response = 4676341 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-04.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 2:00 pm Instrument : Pest 11
Sample : il2pest,42e,,pp 11405 L0.0Quant Date : 12/20/2023 6:13 pm

Compound #52: alpha-Chlordane (cis) #2



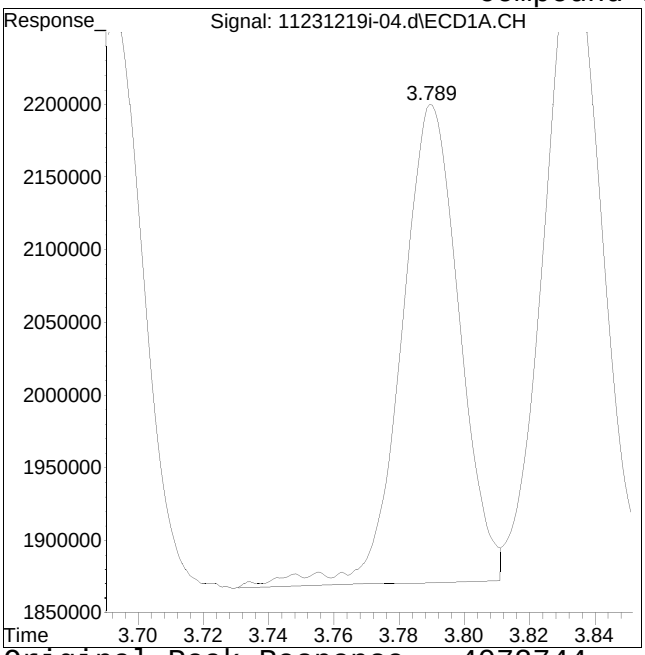


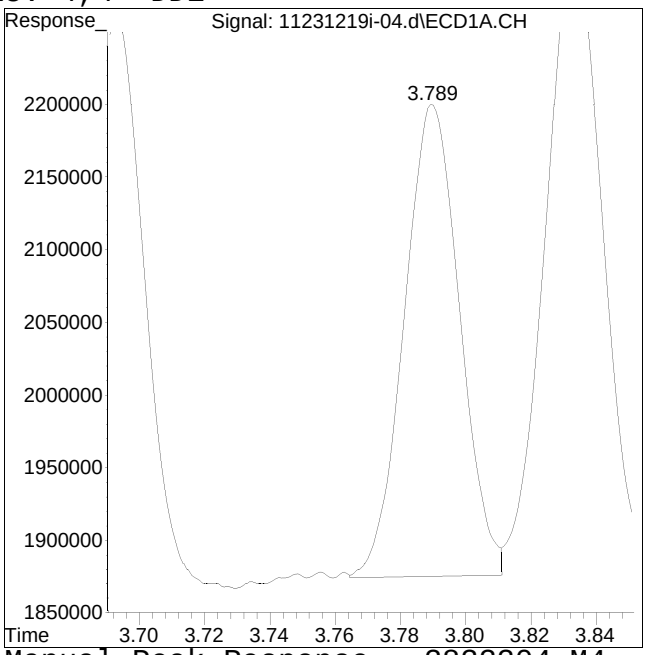
Original Peak Response = 7275872 Manual Peak Response = 7220637 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-04.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 2:00 pm Instrument : Pest 11
Sample : il2pest,42e,,pp 11405 L0.0Quant Date : 12/20/2023 6:13 pm

Compound #15: 4,4'-DDE



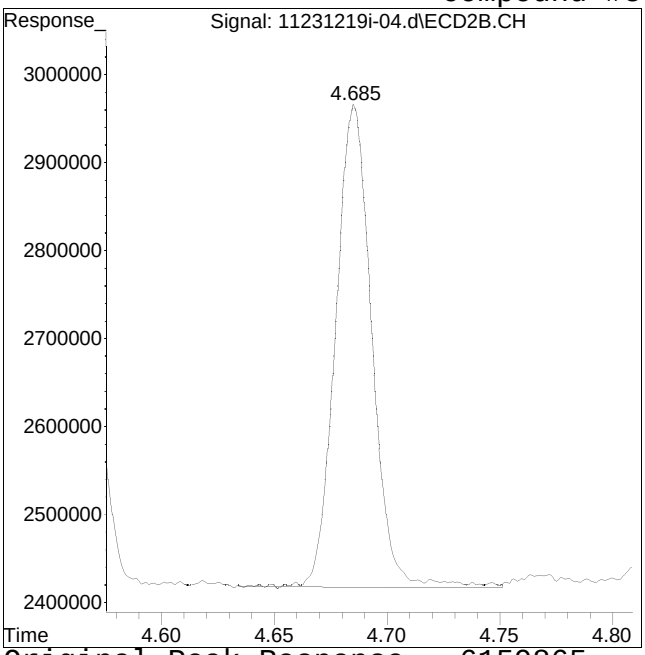


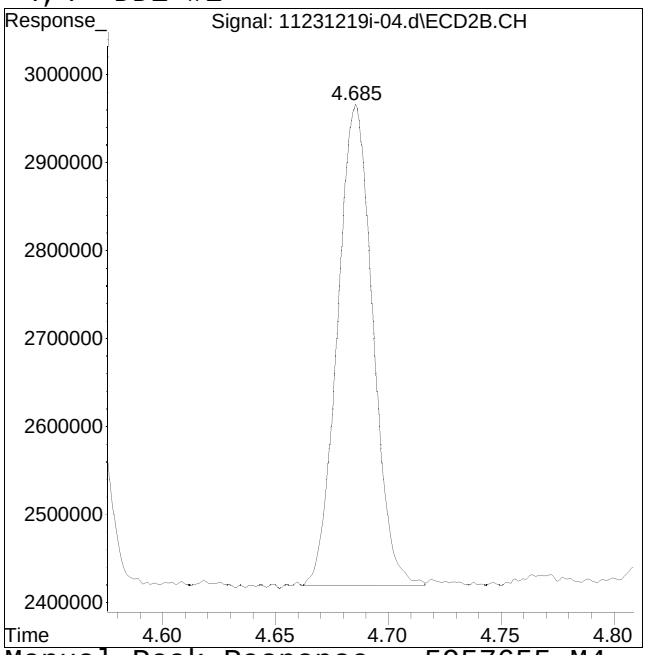
Original Peak Response = 4072744 Manual Peak Response = 3833304 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-04.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 2:00 pm Instrument : Pest 11
Sample : il2pest,42e,,pp 11405 L0.0Quant Date : 12/20/2023 6:13 pm

Compound #53: 4,4'-DDE #2



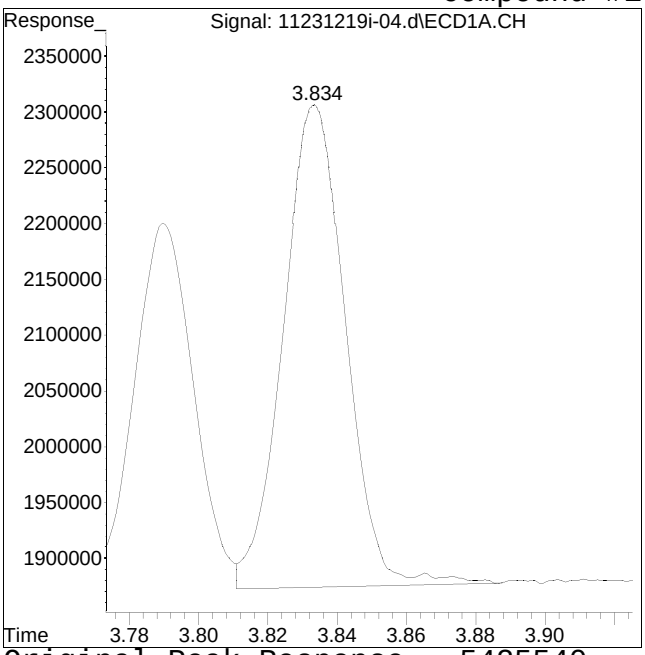


Original Peak Response = 6159865 Manual Peak Response = 5957655 M4
M4 = Poor automated baseline construction.

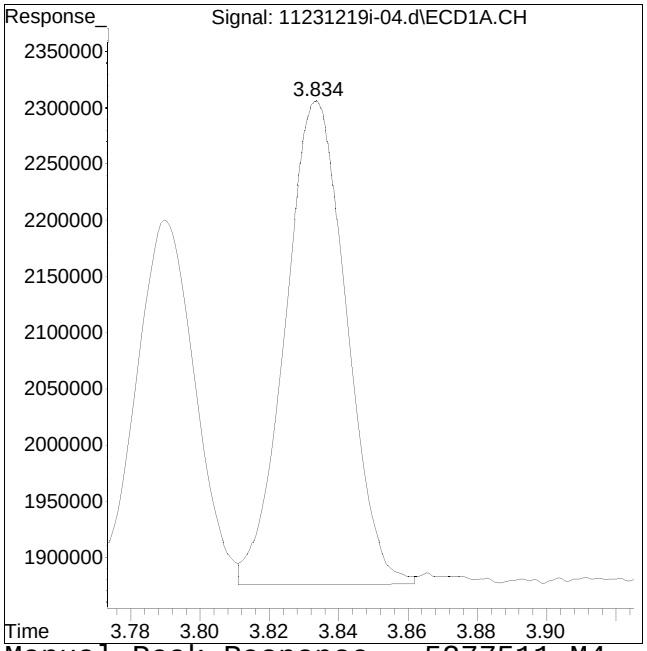
Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-04.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 2:00 pm Instrument : Pest 11
Sample : il2pest,42e,,pp 11405 L0.0Quant Date : 12/20/2023 6:13 pm

Compound #16: Endosulfan I



Original Peak Response = 5425540



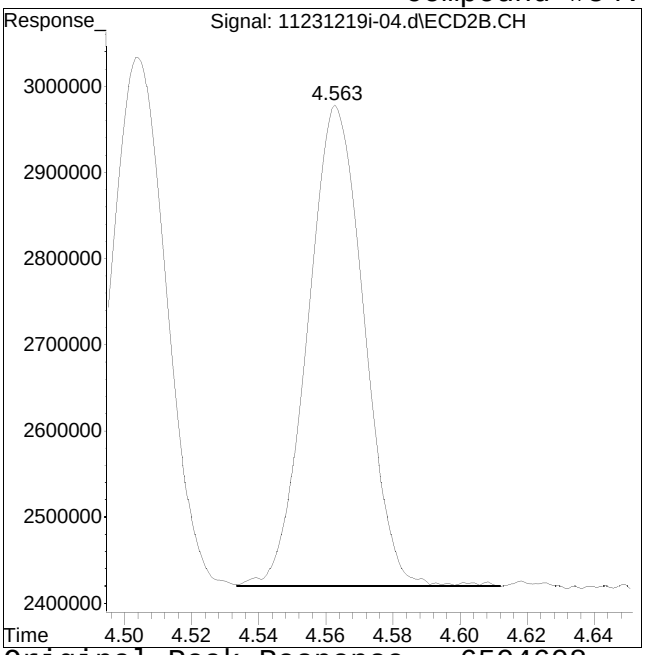
Manual Peak Response = 5277511 M4

M4 = Poor automated baseline construction.

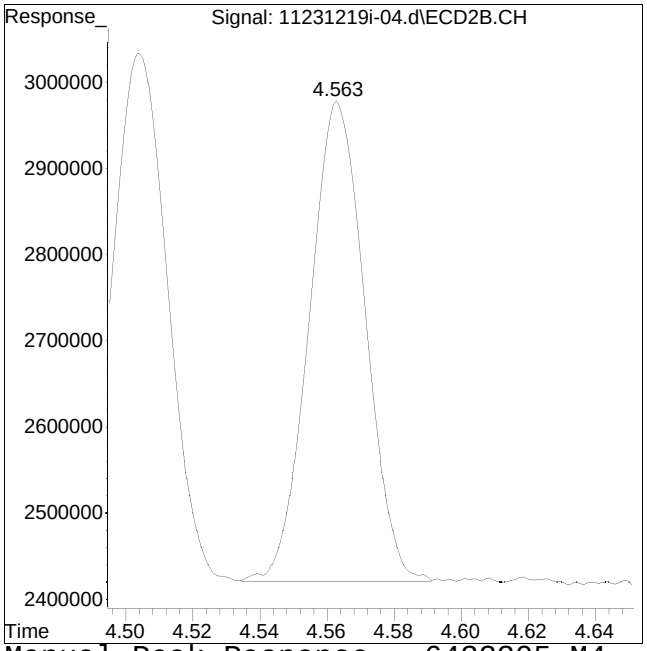
Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-04.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 2:00 pm Instrument : Pest 11
Sample : il2pest,42e,,pp 11405 L0.0Quant Date : 12/20/2023 6:13 pm

Compound #54: Endosulfan I #2



Original Peak Response = 6504608



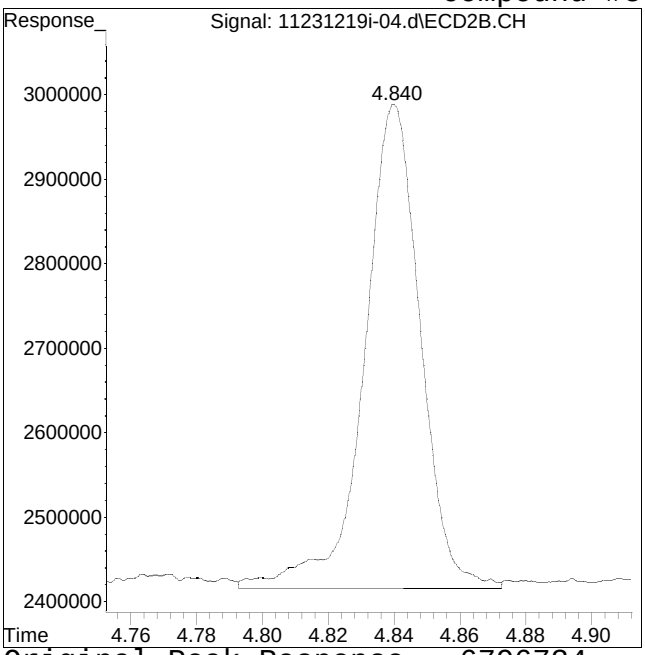
Manual Peak Response = 6433305 M4

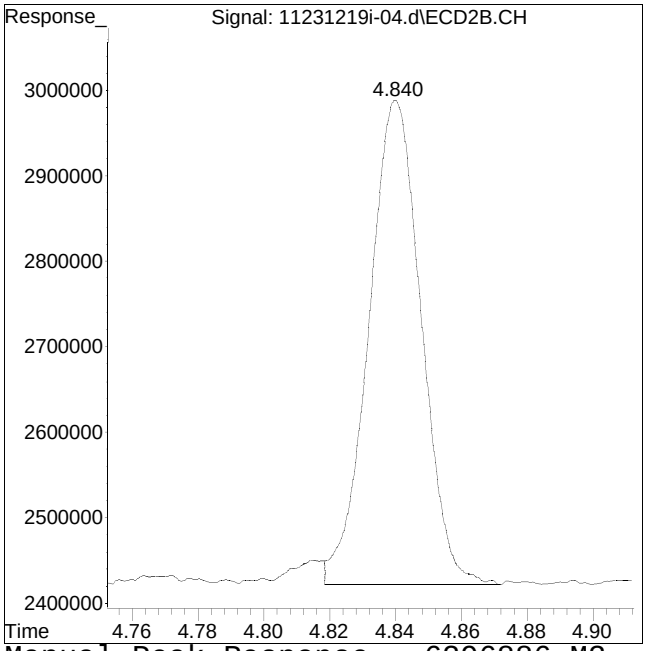
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-04.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 2:00 pm Instrument : Pest 11
Sample : il2pest,42e,,pp 11405 L0.0Quant Date : 12/20/2023 6:13 pm

Compound #55: Dieldrin #2



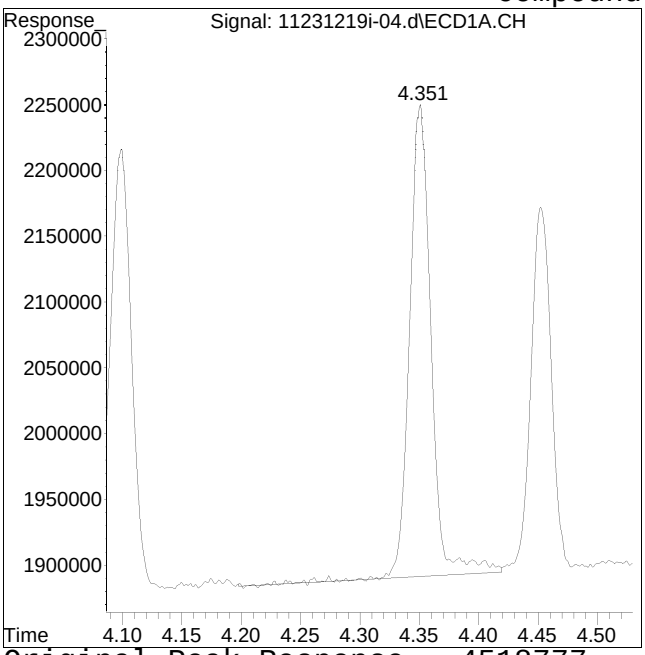


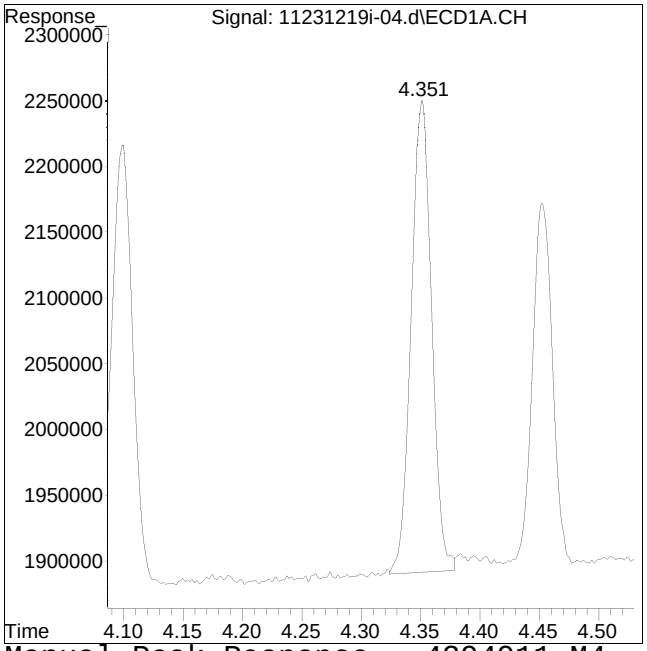
Original Peak Response = 6796734 Manual Peak Response = 6296886 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-04.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 2:00 pm Instrument : Pest 11
Sample : il2pest,42e,,pp 11405 L0.0Quant Date : 12/20/2023 6:13 pm

Compound #18: Endrin



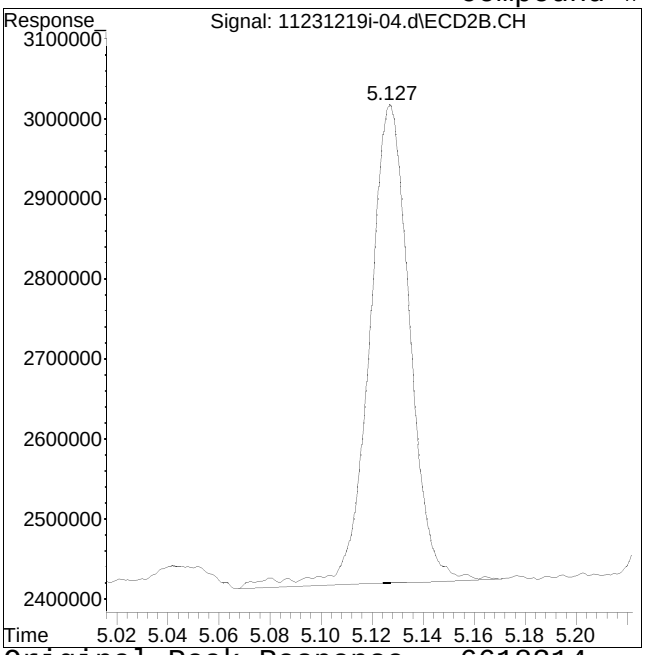


Original Peak Response = 4518777 Manual Peak Response = 4294911 M4
M4 = Poor automated baseline construction.

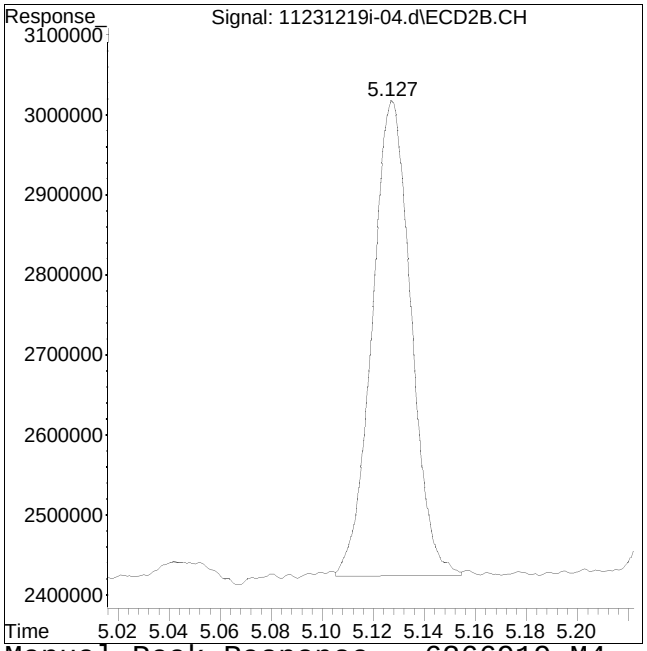
Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-04.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 2:00 pm Instrument : Pest 11
Sample : il2pest,42e,,pp 11405 L0.0Quant Date : 12/20/2023 6:13 pm

Compound #56: Endrin #2



Original Peak Response = 6618314



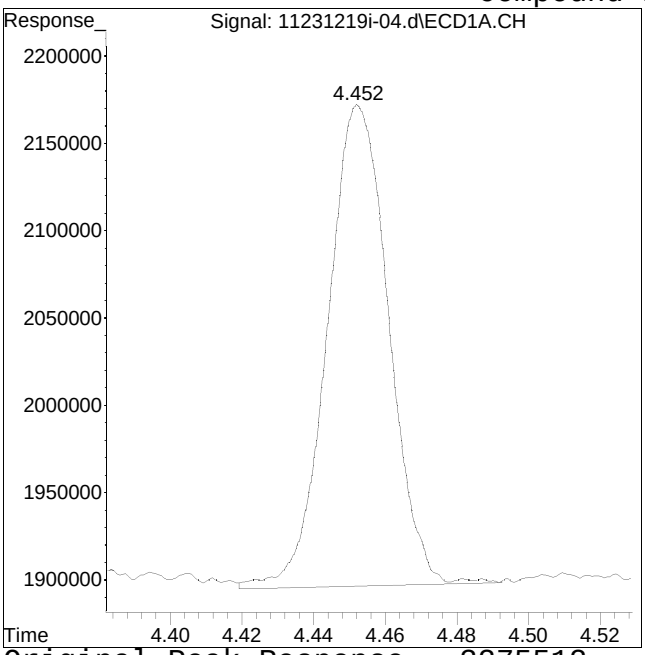
Manual Peak Response = 6266919 M4

M4 = Poor automated baseline construction.

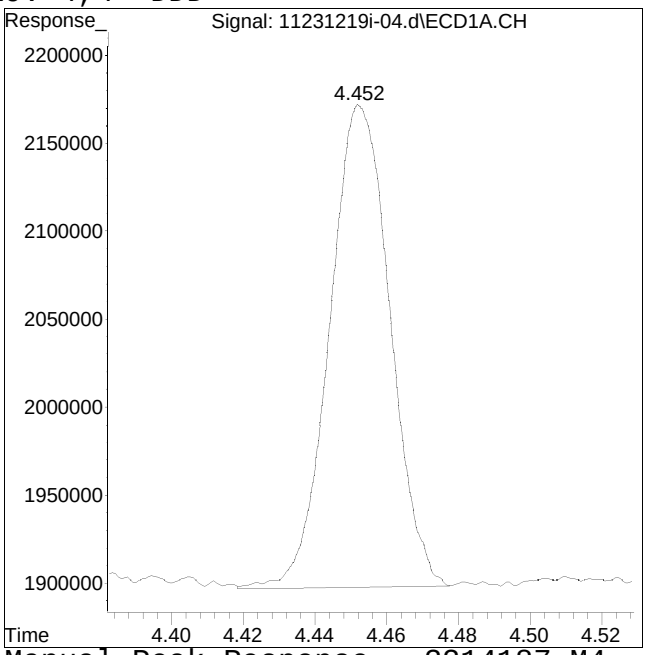
Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-04.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 2:00 pm Instrument : Pest 11
Sample : il2pest,42e,,pp 11405 L0.0Quant Date : 12/20/2023 6:13 pm

Compound #19: 4,4'-DDD



Original Peak Response = 3275512



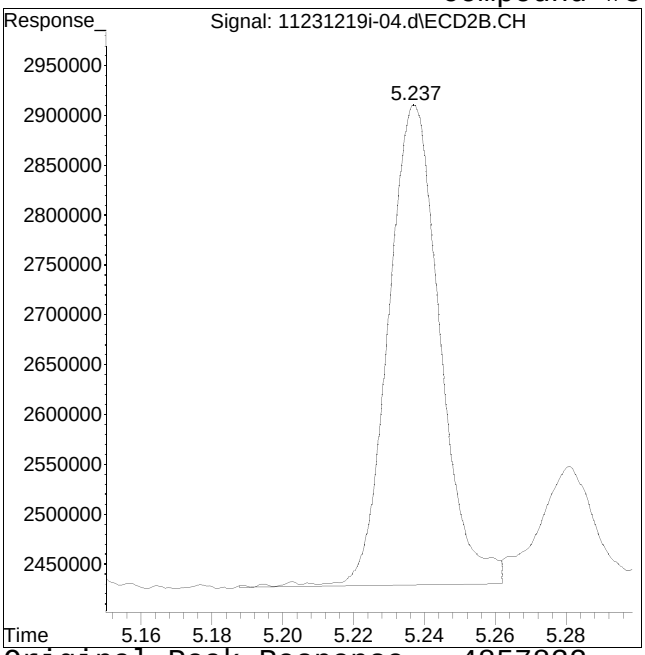
Manual Peak Response = 3214187 M4

M4 = Poor automated baseline construction.

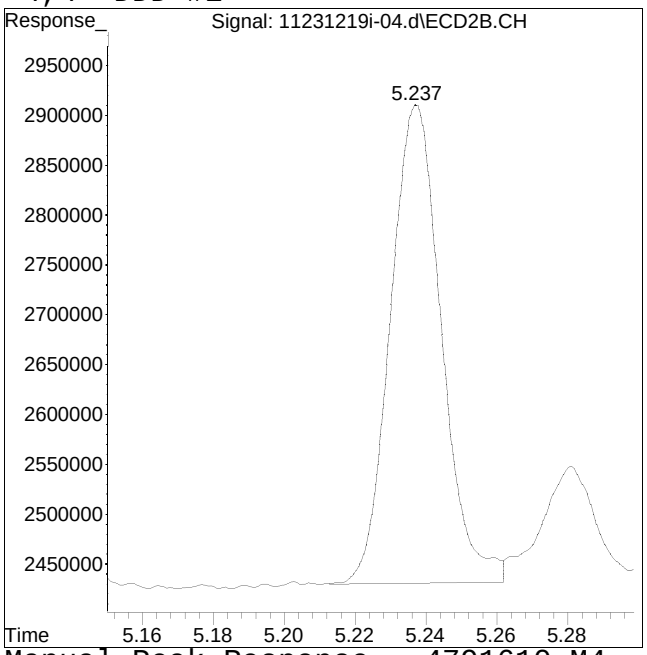
Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-04.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 2:00 pm Instrument : Pest 11
Sample : il2pest,42e,,pp 11405 L0.0Quant Date : 12/20/2023 6:13 pm

Compound #57: 4,4'-DDD #2



Original Peak Response = 4857832



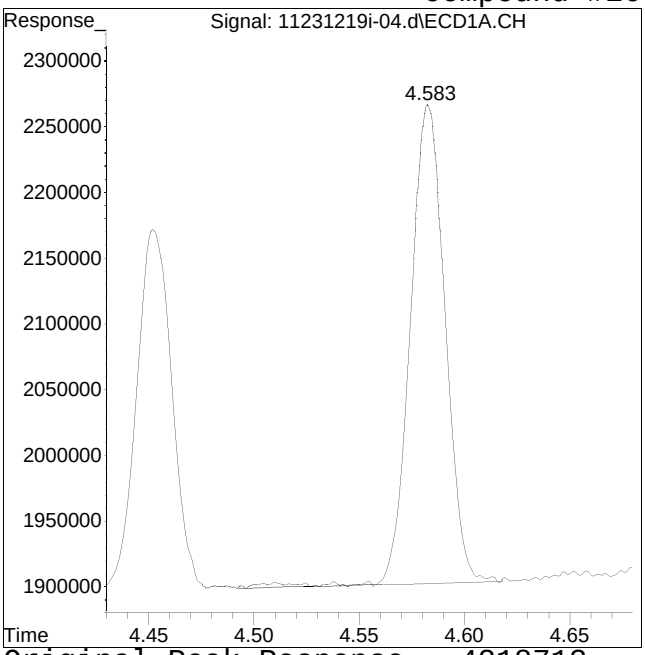
Manual Peak Response = 4791610 M4

M4 = Poor automated baseline construction.

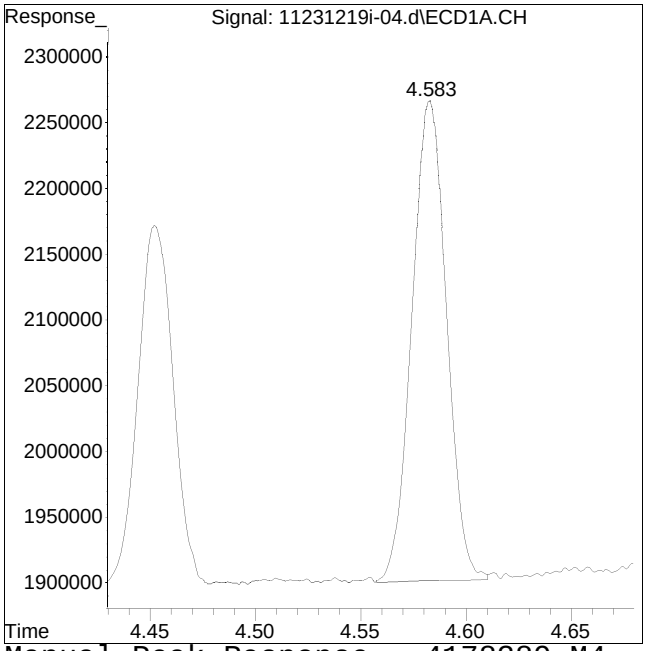
Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-04.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 2:00 pm Instrument : Pest 11
Sample : il2pest,42e,,pp 11405 L0.0Quant Date : 12/20/2023 6:13 pm

Compound #20: Endosulfan II



Original Peak Response = 4218713



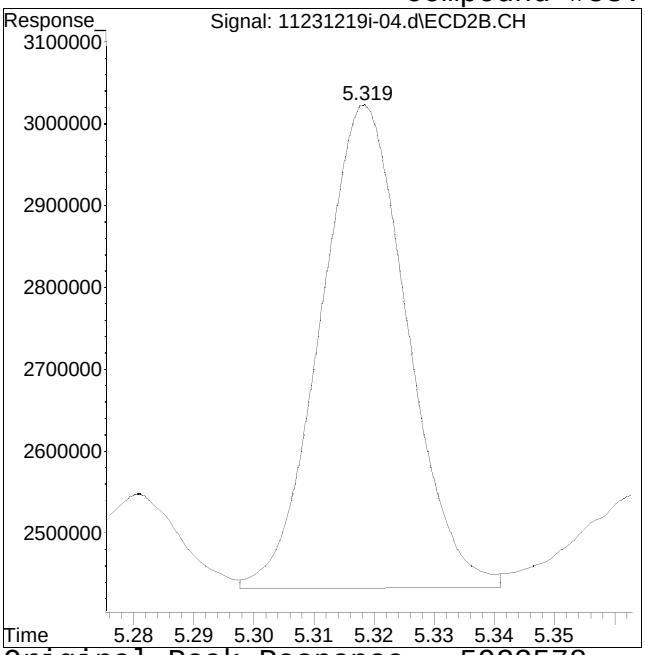
Manual Peak Response = 4178389 M4

M4 = Poor automated baseline construction.

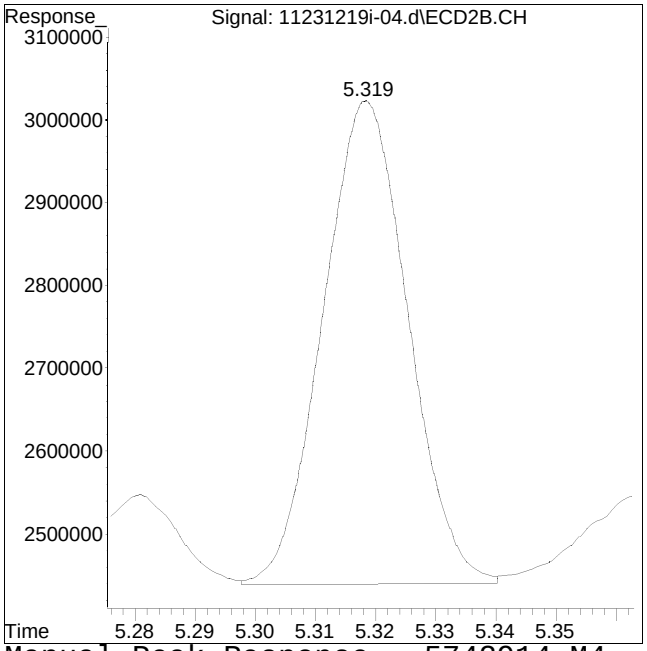
Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-04.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 2:00 pm Instrument : Pest 11
Sample : il2pest,42e,,pp 11405 L0.0Quant Date : 12/20/2023 6:13 pm

Compound #58: Endosulfan II #2



Original Peak Response = 5923578



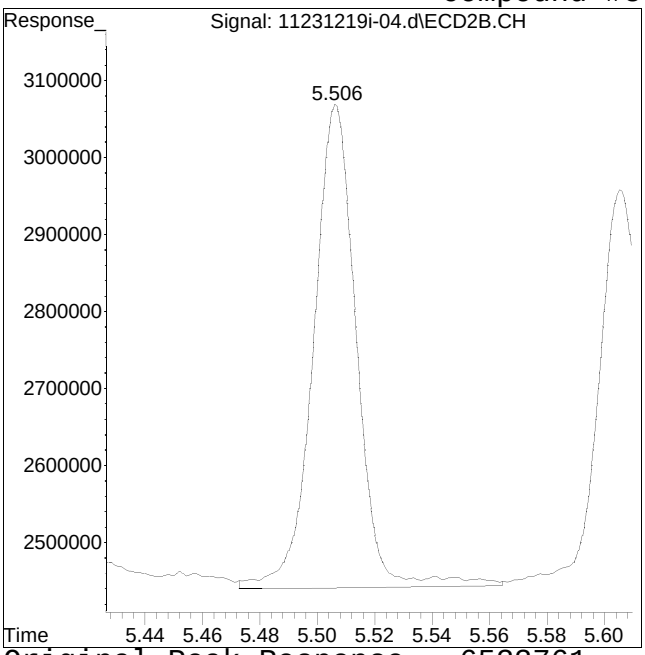
Manual Peak Response = 5742914 M4

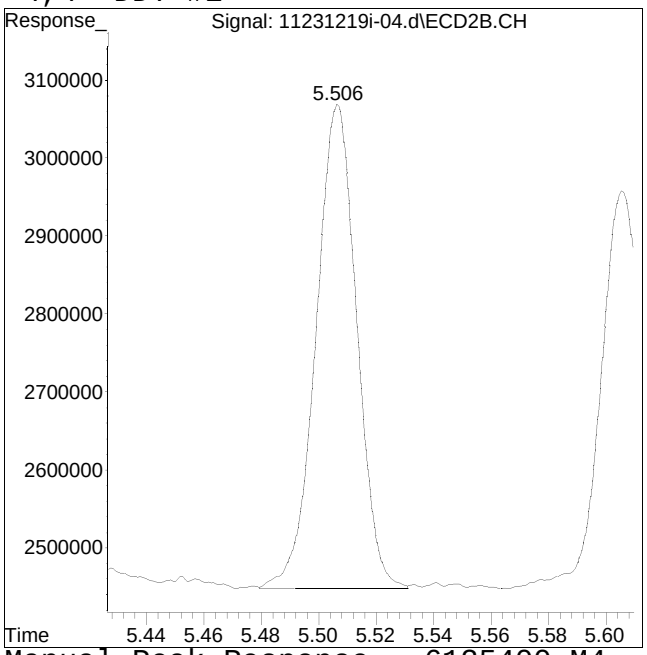
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-04.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 2:00 pm Instrument : Pest 11
Sample : il2pest,42e,,pp 11405 L0.0Quant Date : 12/20/2023 6:13 pm

Compound #59: 4,4'-DDT #2



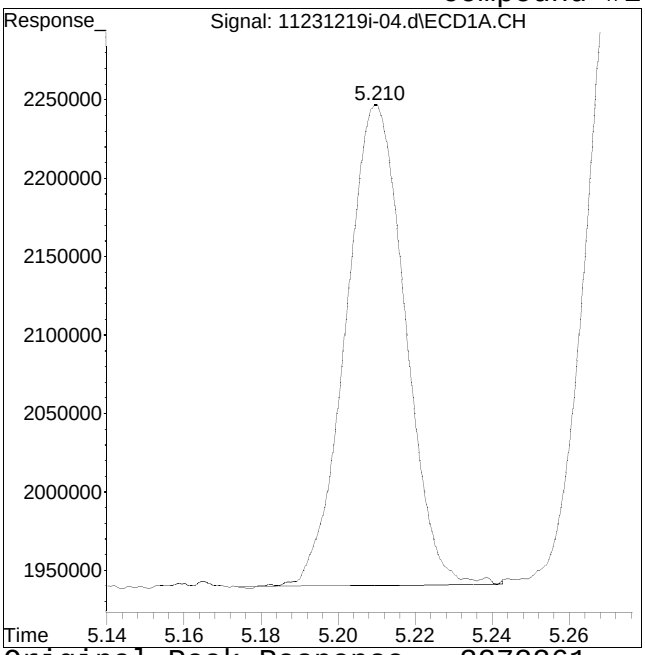


Original Peak Response = 6533761 Manual Peak Response = 6125400 M4
M4 = Poor automated baseline construction.

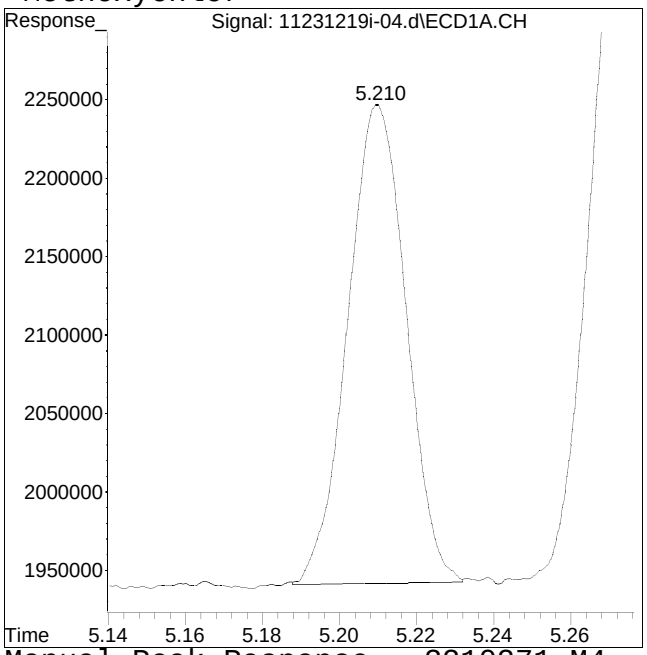
Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-04.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 2:00 pm Instrument : Pest 11
Sample : il2pest,42e,,pp 11405 L0.0Quant Date : 12/20/2023 6:13 pm

Compound #23: Methoxychlor



Original Peak Response = 3272261



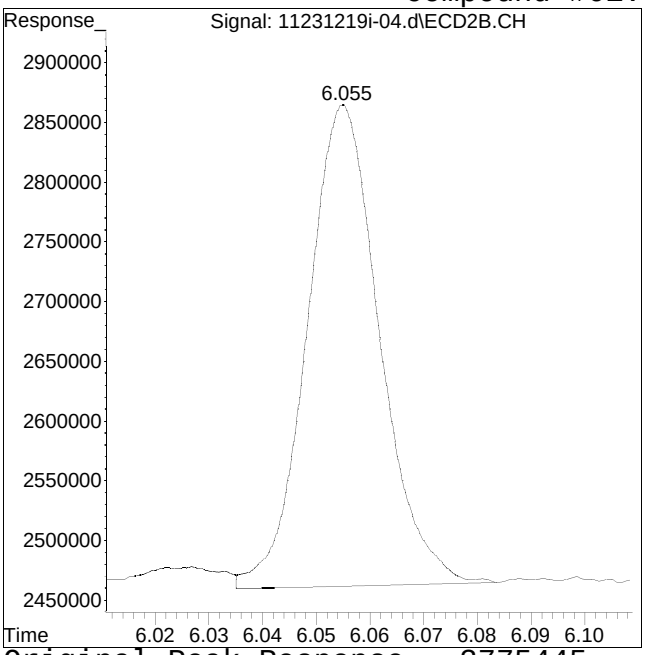
Manual Peak Response = 3210271 M4

M4 = Poor automated baseline construction.

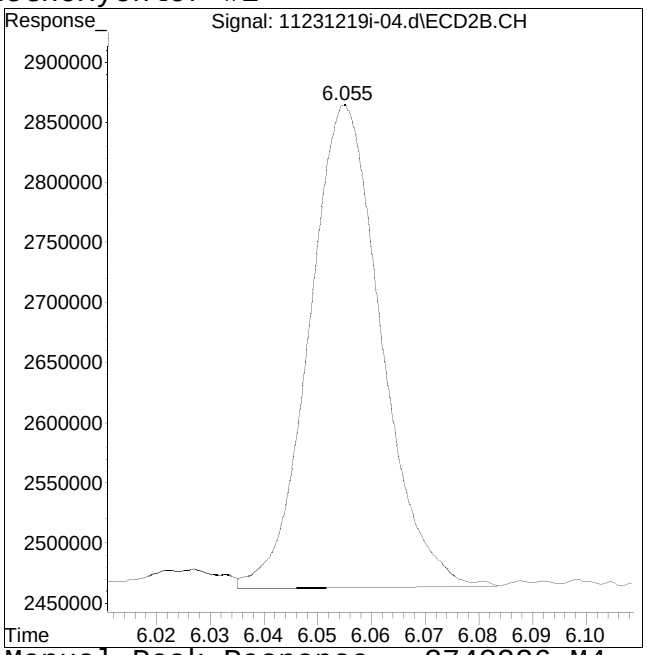
Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-04.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 2:00 pm Instrument : Pest 11
Sample : il2pest,42e,,pp 11405 L0.0Quant Date : 12/20/2023 6:13 pm

Compound #61: Methoxychlor #2



Original Peak Response = 3775445



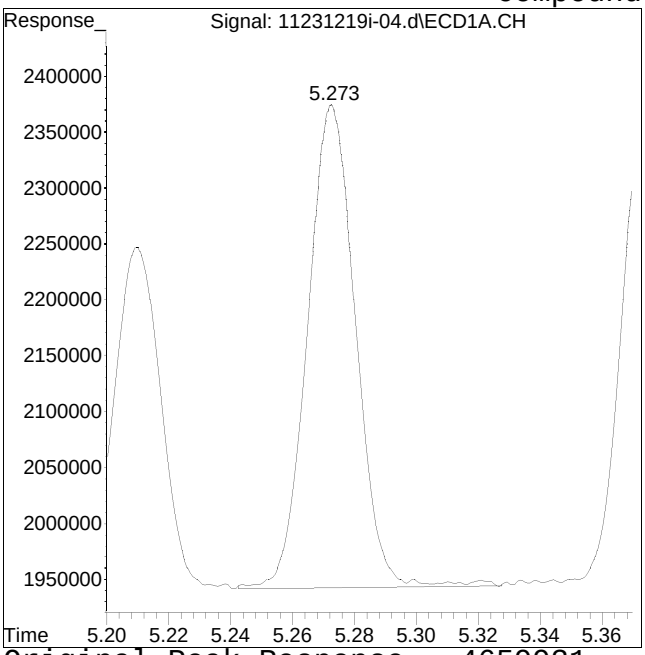
Manual Peak Response = 3743226 M4

M4 = Poor automated baseline construction.

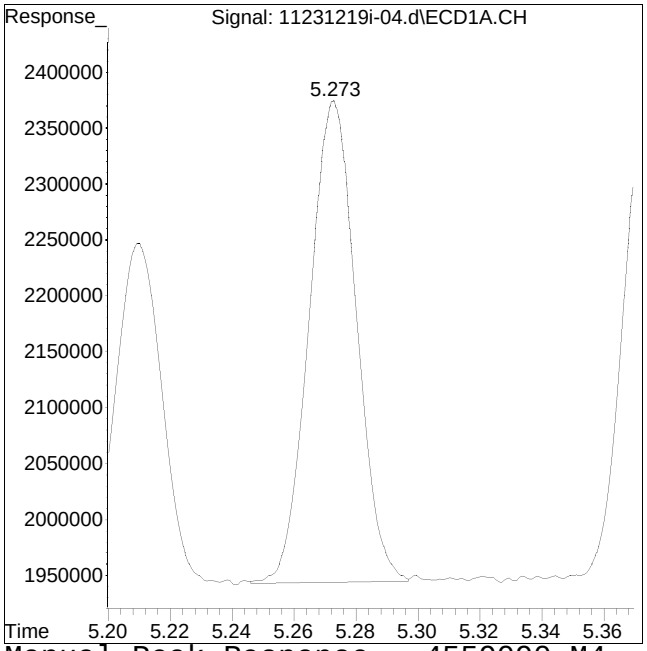
Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-04.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 2:00 pm Instrument : Pest 11
Sample : il2pest,42e,,pp 11405 L0.0Quant Date : 12/20/2023 6:13 pm

Compound #24: Mirex



Original Peak Response = 4659931



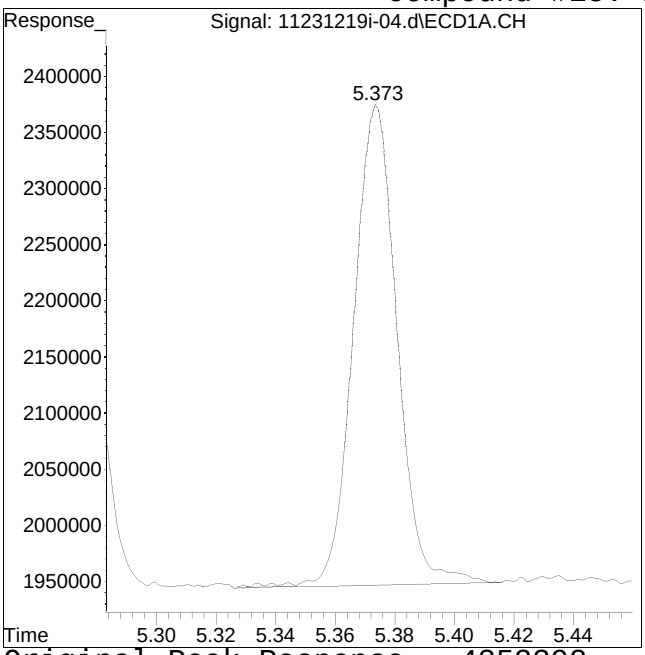
Manual Peak Response = 4559090 M4

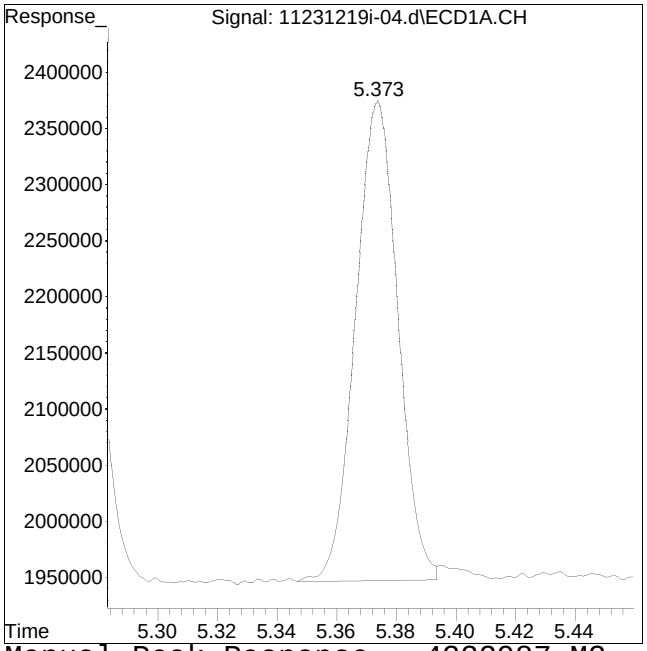
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-04.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 2:00 pm Instrument : Pest 11
Sample : il2pest,42e,,pp 11405 L0.0Quant Date : 12/20/2023 6:13 pm

Compound #25: Endosulfan Sulfate



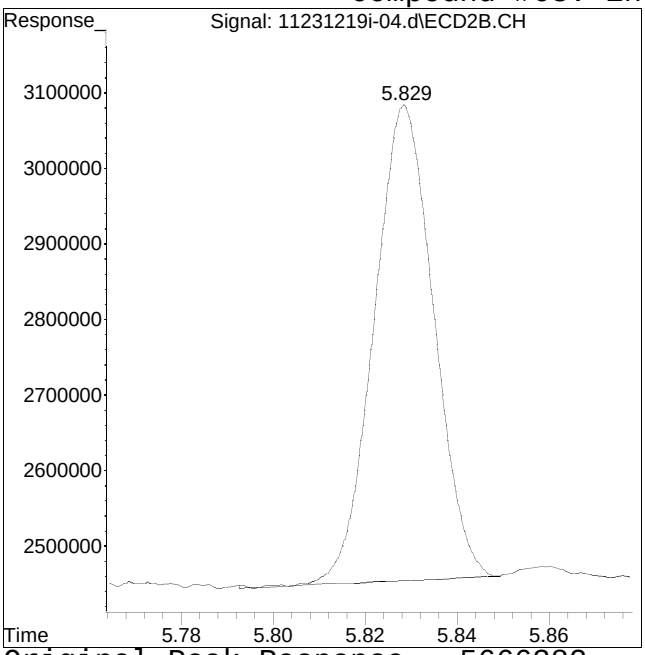


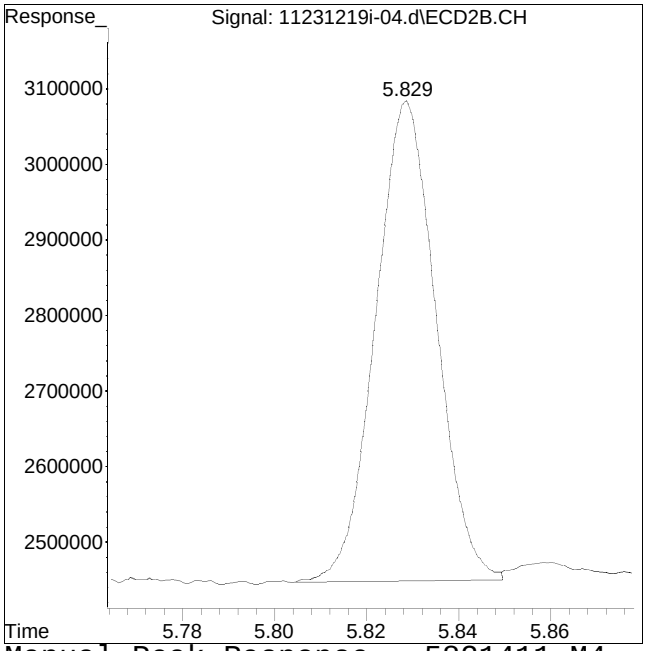
Original Peak Response = 4353392 Manual Peak Response = 4222987 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-04.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 2:00 pm Instrument : Pest 11
Sample : il2pest,42e,,pp 11405 L0.0Quant Date : 12/20/2023 6:13 pm

Compound #63: Endosulfan Sulfate #2



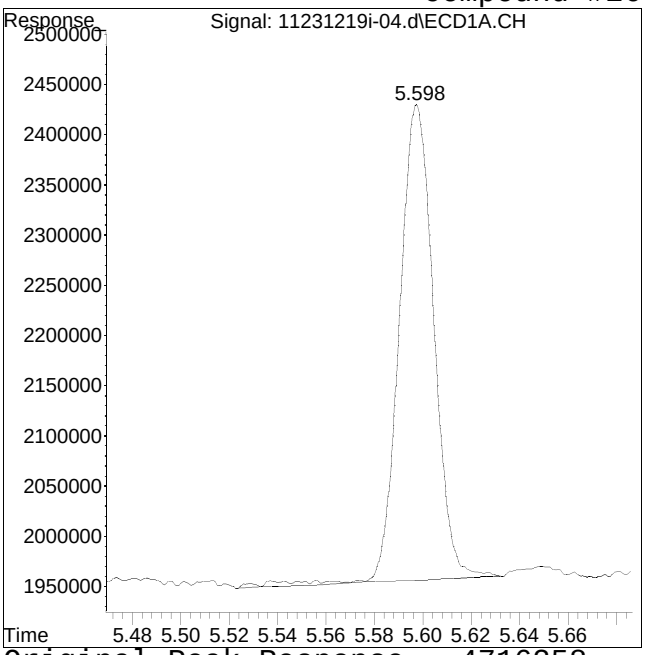


Original Peak Response = 5666382 Manual Peak Response = 5821411 M4
M4 = Poor automated baseline construction.

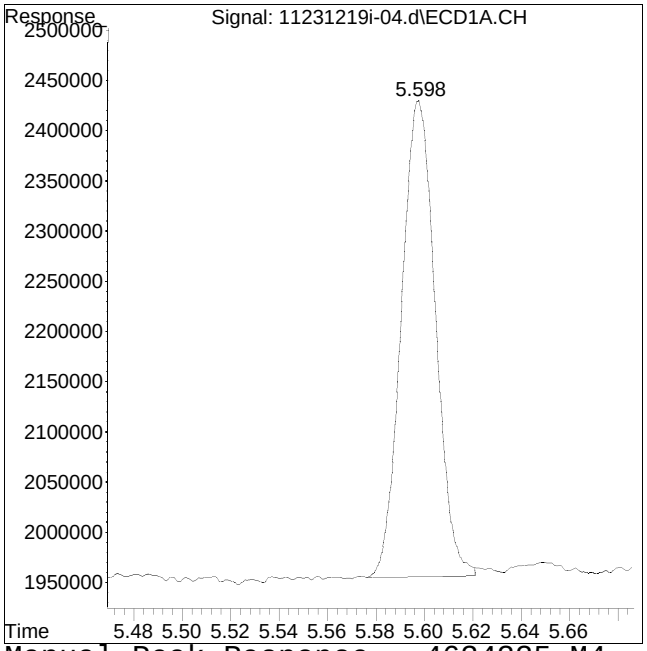
Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-04.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 2:00 pm Instrument : Pest 11
Sample : il2pest,42e,,pp 11405 L0.0Quant Date : 12/20/2023 6:13 pm

Compound #26: Endrin Ketone



Original Peak Response = 4716258



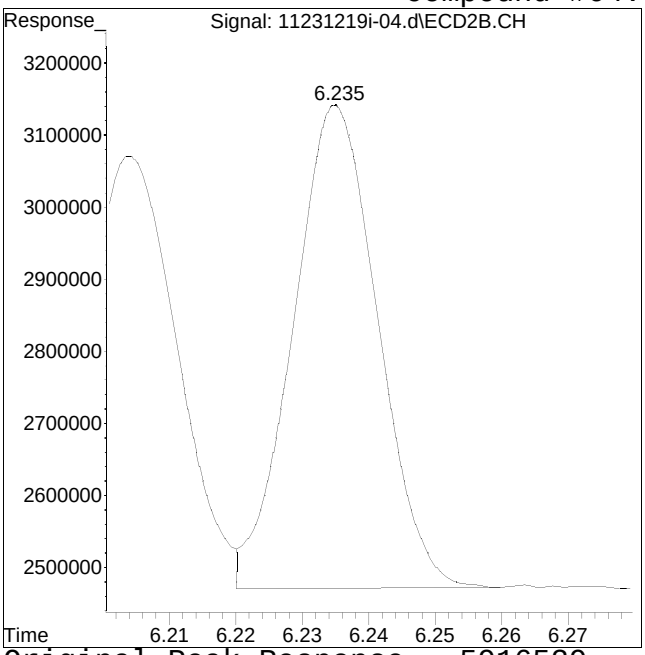
Manual Peak Response = 4634335 M4

M4 = Poor automated baseline construction.

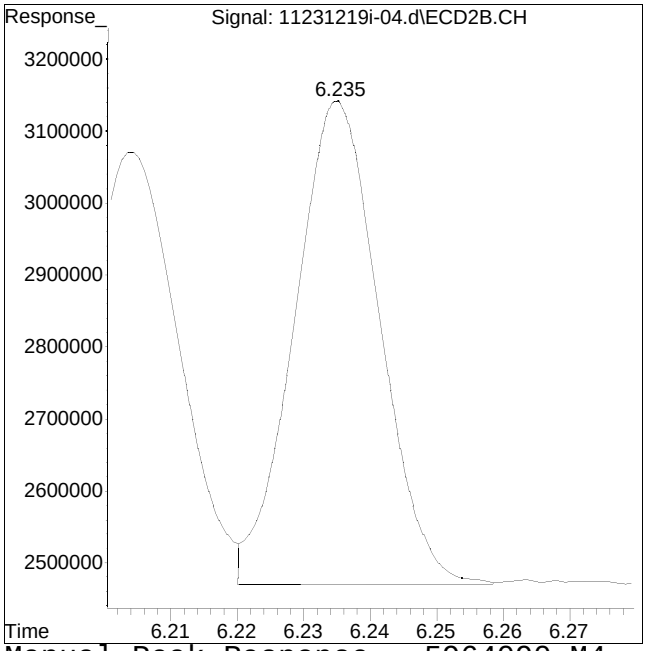
Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-04.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 2:00 pm Instrument : Pest 11
Sample : il2pest,42e,,pp 11405 L0.0Quant Date : 12/20/2023 6:13 pm

Compound #64: Endrin Ketone #2



Original Peak Response = 5916529



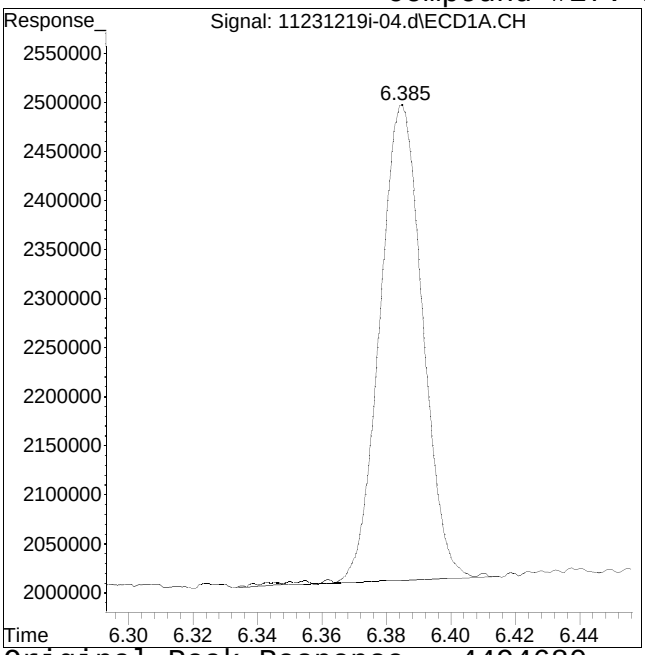
Manual Peak Response = 5964090 M4

M4 = Poor automated baseline construction.

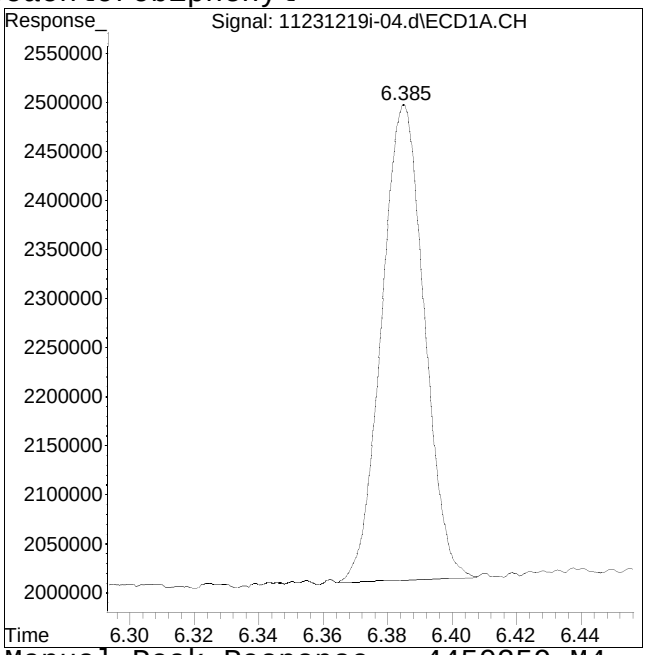
Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-04.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 2:00 pm Instrument : Pest 11
Sample : il2pest,42e,,pp 11405 L0.0Quant Date : 12/20/2023 6:13 pm

Compound #27: Decachlorobiphenyl



Original Peak Response = 4494680



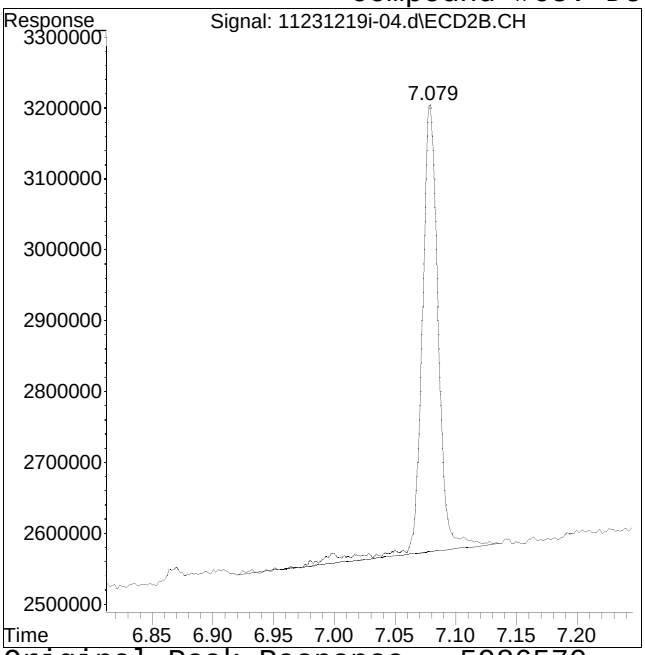
Manual Peak Response = 4450259 M4

M4 = Poor automated baseline construction.

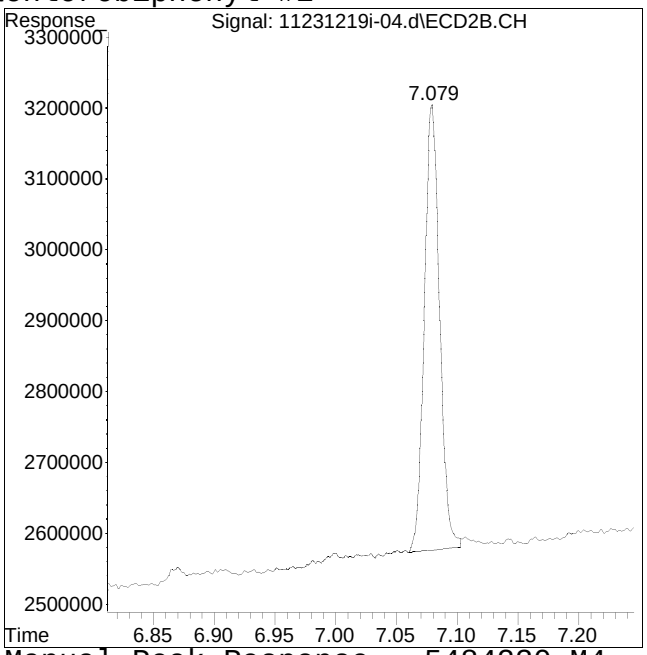
Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-04.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 2:00 pm Instrument : Pest 11
Sample : il2pest,42e,,pp 11405 L0.0Quant Date : 12/20/2023 6:13 pm

Compound #65: Decachlorobiphenyl #2



Original Peak Response = 5986570



Manual Peak Response = 5484230 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2023\231219ICAL\
Data File : 11231219i-05.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 19 Dec 2023 2:12 pm
Operator : PEST11:ejl
Sample : il3pest,42e,,pp 11404 L0.002
Misc : WG1866910,ical (Sig #1); ical (Sig #2)
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 20 18:12:33 2023
Quant Method : I:\PEST\Pest11\2023\231219ICAL\pest11_12_19_23_ugL_ICAL.M
Quant Title : pest
QLast Update : Wed Dec 20 18:06:21 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	1.374	1.479	84767573	120.1E6	25.000M4	25.000
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.727	1.984	6693620	10175847	2.090M4	2.183
	Spiked Amount 50.000	Range 30 - 150		Recovery =		4.18%#	4.37%#
27) s	Decachlorobi	6.385	7.081	8320141	10096788	2.435M4	2.455M4
	Spiked Amount 50.000	Range 30 - 150		Recovery =		4.87%#	4.91%#
	Target Compounds						
3) t	Hexachlorobe	1.948	2.325	8129968	12191090	2.222M4	2.342M4
4) t	alpha-BHC	2.050	2.426	8215010	12801892	1.767M4	1.904M4
5) t	gamma-BHC (l	2.259	2.729	8171673	12510368	1.860M3	2.005
6) t	beta-BHC	2.316	2.796	4503616	6778244	2.236M4	2.339
7) t	delta-BHC	2.449	3.078	8055273	12391954	1.810M4	1.976
8) t	Heptachlor	2.617	3.149	8985030	13790126	2.044M3	2.178M4
9) t	Aldrin	2.868	3.485	7856396	12002465	1.944	2.063M4
10) t	Alachlor	2.991	3.357	1451892	2100951	2.276M4	2.340M4
11) t	Chlorpyrifos	3.085	3.726	5261347	8615638	2.419M4	2.526M4
12) t	Heptachlor E	3.429	4.126	8476495	12893982	2.125	2.257M4
13) t	gamma-Chlord	3.555	4.345	7725077	11498446	2.133M4	2.231M4
14) t	alpha-Chlord	3.692	4.504	8790169	12752034	2.125M4	2.242
15) t	4,4'-DDE	3.790	4.685	7300922	10922677	1.890M4	2.034M4

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2023\231219ICAL\
Data File : 11231219i-05.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 19 Dec 2023 2:12 pm
Operator : PEST11:ejl
Sample : il3pest,42e,,pp 11404 L0.002
Misc : WG1866910,ical (Sig #1); ical (Sig #2)
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 20 18:12:33 2023
Quant Method : I:\PEST\Pest11\2023\231219ICAL\pest11_12_19_23_ugL_ICAL.M
Quant Title : pest
QLast Update : Wed Dec 20 18:06:21 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
16) t	Endosulfan I	3.834	4.563	8043613	11609226	2.111M4	2.210
17) t	Dieldrin	4.099	4.840	7925222	11191926	2.030M4	2.110M3
18) t	Endrin	4.351	5.127	7999848	11182268	1.997M4	2.100M3
19) t	4,4'-DDD	4.452	5.237	6181312	8708895	1.940M4	2.042M3
20) t	Endosulfan I	4.583	5.318	7734493	10714272	2.122M4	2.261M4
21) t	4,4'-DDT	4.736	5.506	7467527	10883364	1.994M4	2.223M4
22) t	Endrin Aldeh	4.989	5.605	6502133	8894710	2.128M4	2.215M3
23) t	Methoxychlor	5.211	6.055	5092585	6856273	2.314	2.484M4
24) t	Mirex	5.273	6.204	8469665	10582371	2.427	2.552
25) t	Endosulfan S	5.373	5.829	7843594	10492362	2.209M3	2.282
26) t	Endrin Keton	5.597	6.235	8635263	11094118	2.137M4	2.221
29) l1	chlordane-1	0.000	0.000	0	0	N.D.	N.D.
30) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2023\231219ICAL\
Data File : 11231219i-05.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 19 Dec 2023 2:12 pm
Operator : PEST11:ejl
Sample : il3pest,42e,,pp 11404 L0.002
Misc : WG1866910,ical (Sig #1); ical (Sig #2)
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 20 18:12:33 2023
Quant Method : I:\PEST\Pest11\2023\231219ICAL\pest11_12_19_23_ugL_ICAL.M
Quant Title : pest
QLast Update : Wed Dec 20 18:06:21 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Sum toxaphene-2			0	0	N.D.	N.D.
Average toxaphene-2					0.000	0.000

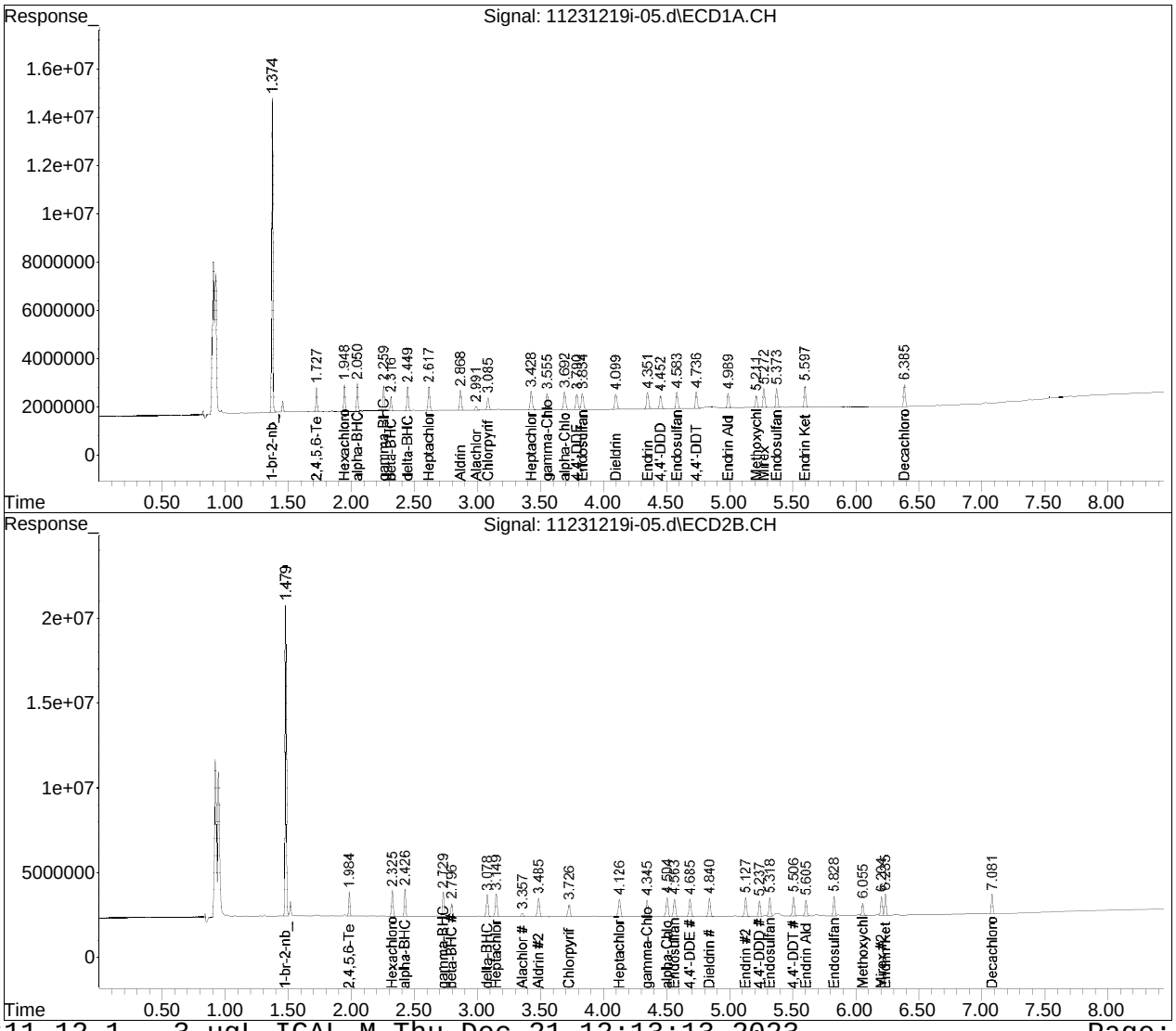
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest11\2023\231219ICAL\
Data File : 11231219i-05.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 19 Dec 2023 2:12 pm
Operator : PEST11:ejl
Sample : il3pest,42e,,pp 11404 L0.002
Misc : WG1866910,ical (Sig #1); ical (Sig #2)
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 20 18:12:33 2023
Quant Method : I:\PEST\Pest11\2023\231219ICAL\pest11_12_19_23_ugL_ICAL.M
Quant Title : pest
QLast Update : Wed Dec 20 18:06:21 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

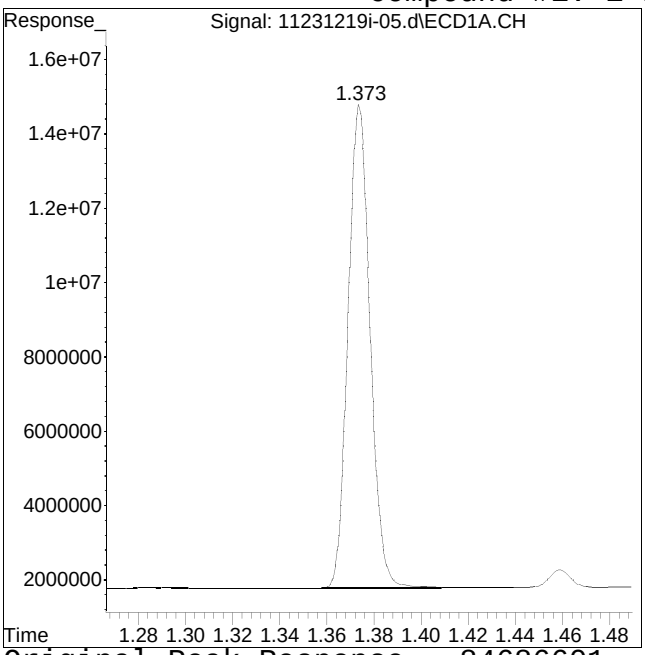
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

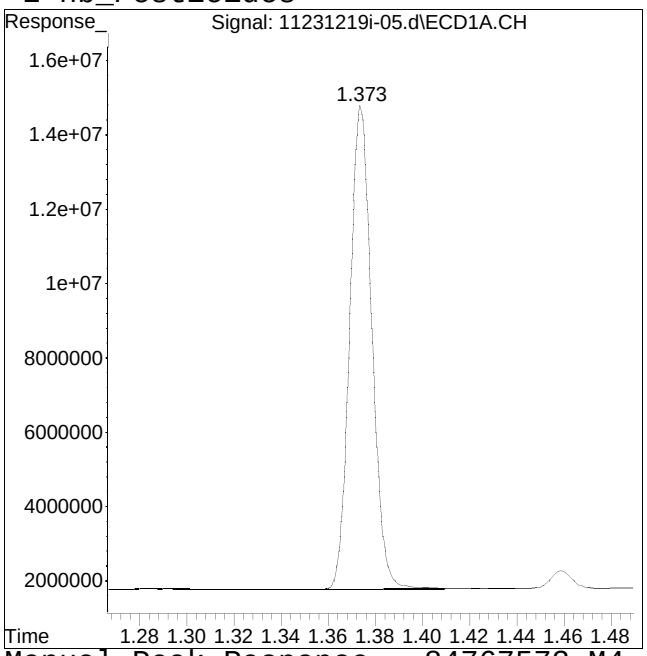


Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-05.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 2:12 pm Instrument : Pest 11
Sample : il3pest,42e,,pp 11404 L0.0Quant Date : 12/20/2023 6:06 pm

Compound #1: 1-br-2-nb_Pesticides



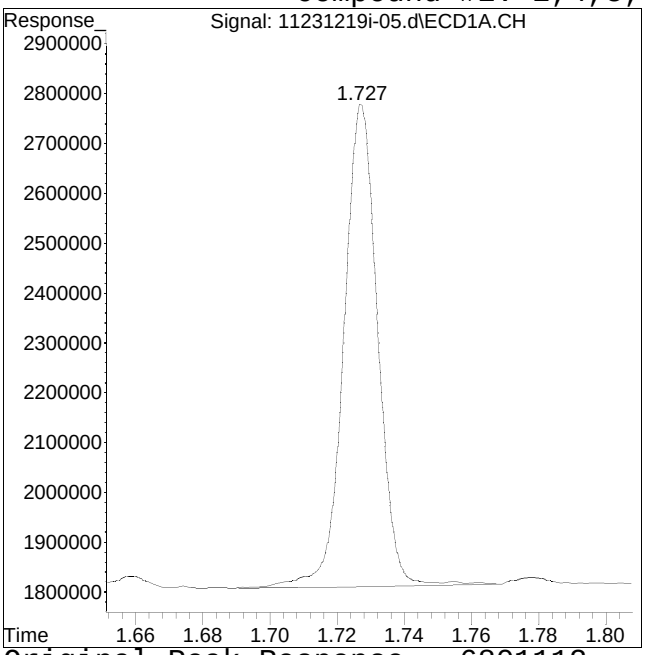


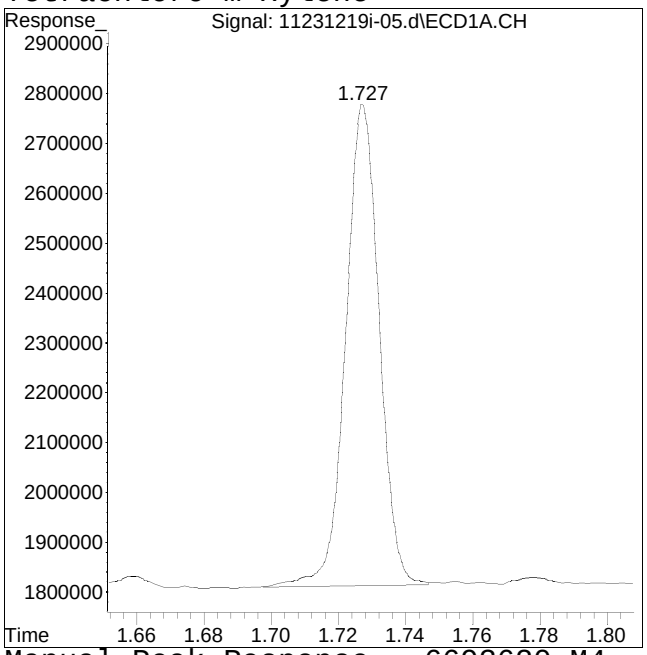
Original Peak Response = 84686601 Manual Peak Response = 84767573 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-05.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 2:12 pm Instrument : Pest 11
Sample : il3pest,42e,,pp 11404 L0.0Quant Date : 12/20/2023 6:06 pm

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



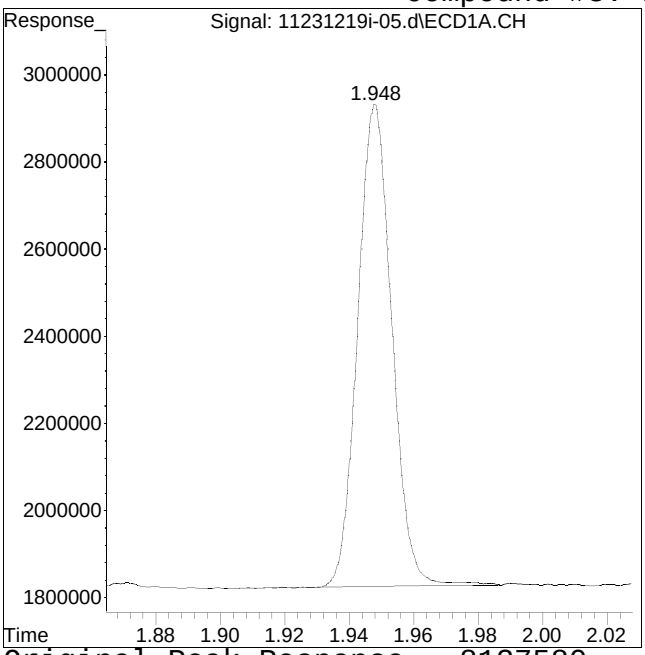


Original Peak Response = 6801112 Manual Peak Response = 6693620 M4
M4 = Poor automated baseline construction.

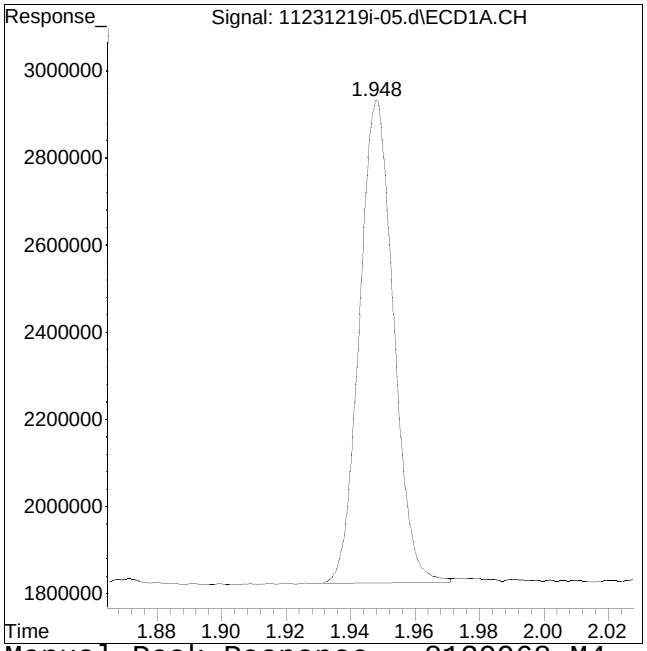
Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-05.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 2:12 pm Instrument : Pest 11
Sample : il3pest,42e,,pp 11404 L0.0Quant Date : 12/20/2023 6:06 pm

Compound #3: Hexachlorobenzene



Original Peak Response = 8137580



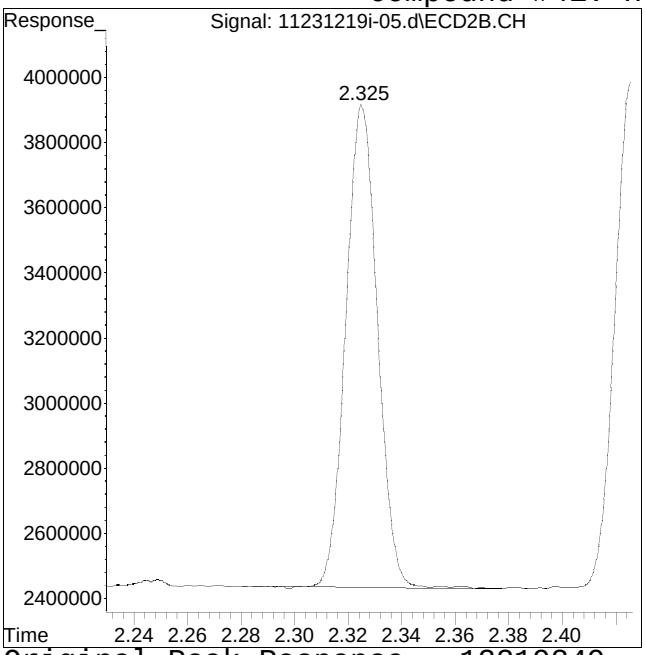
Manual Peak Response = 8129968 M4

M4 = Poor automated baseline construction.

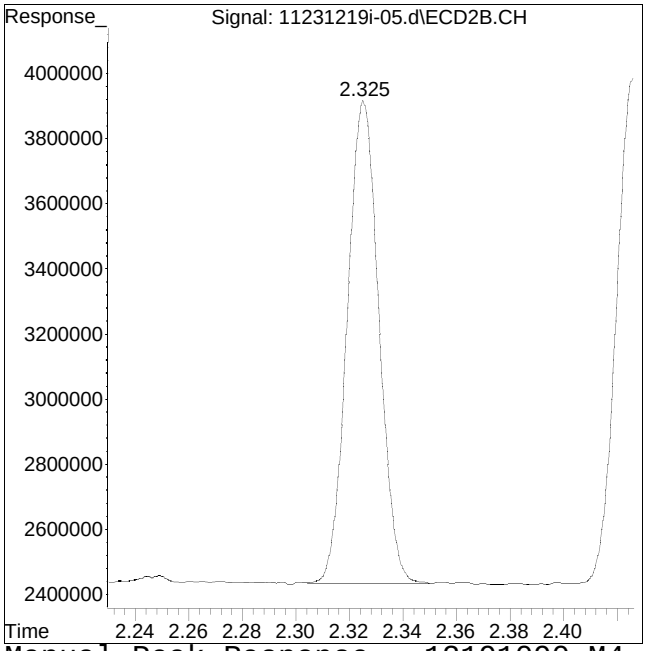
Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-05.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 2:12 pm Instrument : Pest 11
Sample : il3pest,42e,,pp 11404 L0.0Quant Date : 12/20/2023 6:06 pm

Compound #41: Hexachlorobenzene #2



Original Peak Response = 12219249



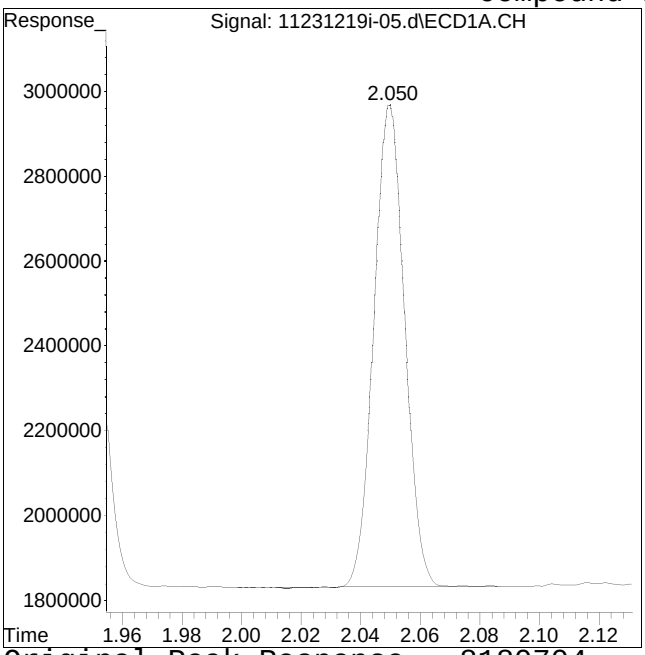
Manual Peak Response = 12191090 M4

M4 = Poor automated baseline construction.

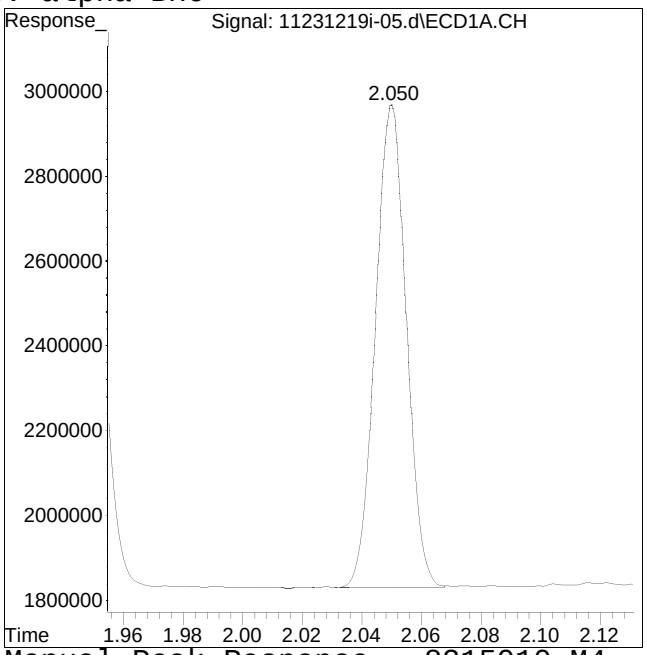
Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-05.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 2:12 pm Instrument : Pest 11
Sample : il3pest,42e,,pp 11404 L0.0Quant Date : 12/20/2023 6:06 pm

Compound #4: alpha-BHC



Original Peak Response = 8180704



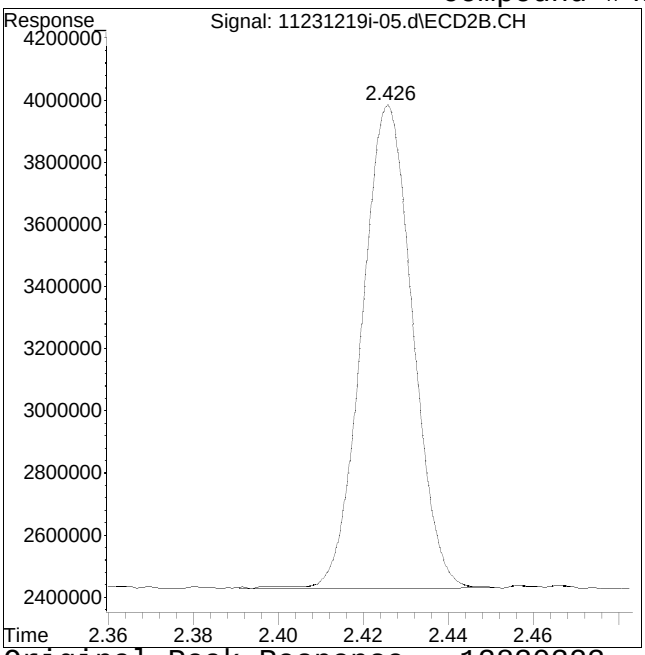
Manual Peak Response = 8215010 M4

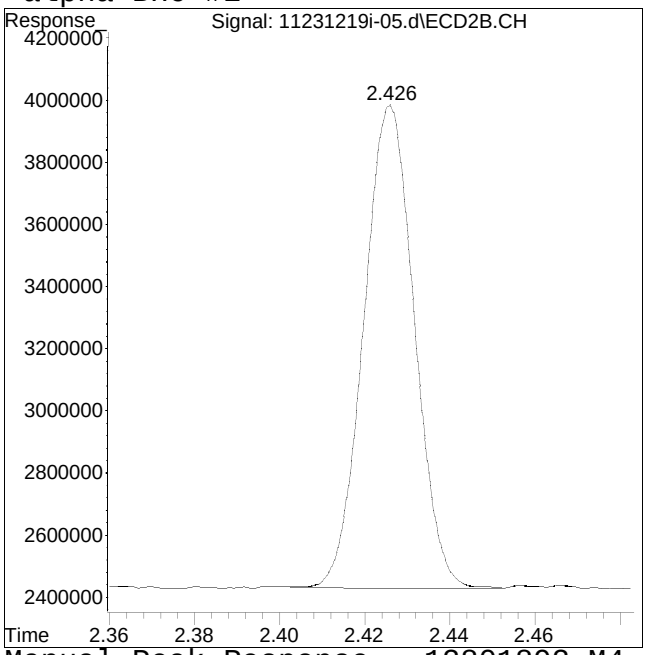
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-05.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 2:12 pm Instrument : Pest 11
Sample : il3pest,42e,,pp 11404 L0.0Quant Date : 12/20/2023 6:06 pm

Compound #42: alpha-BHC #2



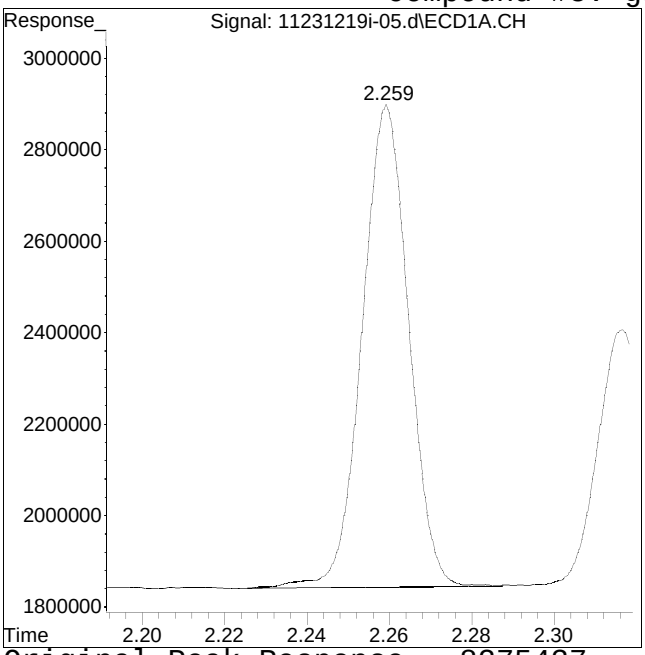


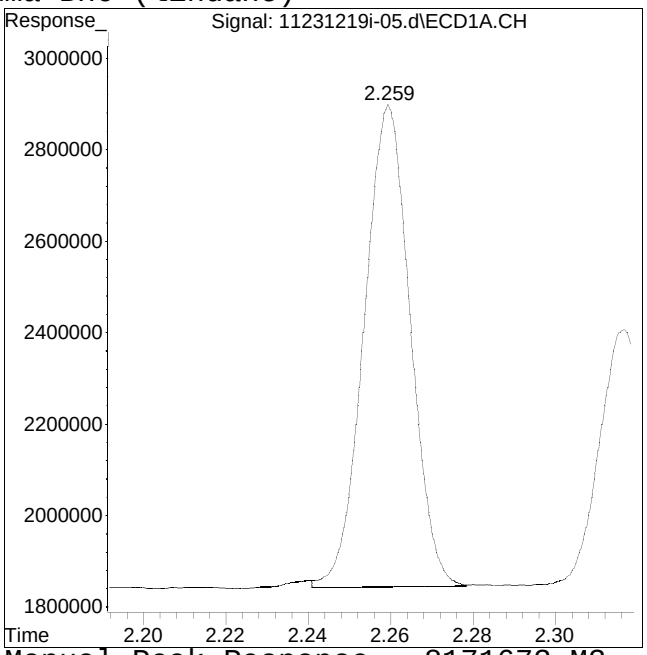
Original Peak Response = 12830323 Manual Peak Response = 12801892 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-05.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 2:12 pm Instrument : Pest 11
Sample : il3pest,42e,,pp 11404 L0.0Quant Date : 12/20/2023 6:06 pm

Compound #5: gamma-BHC (lindane)



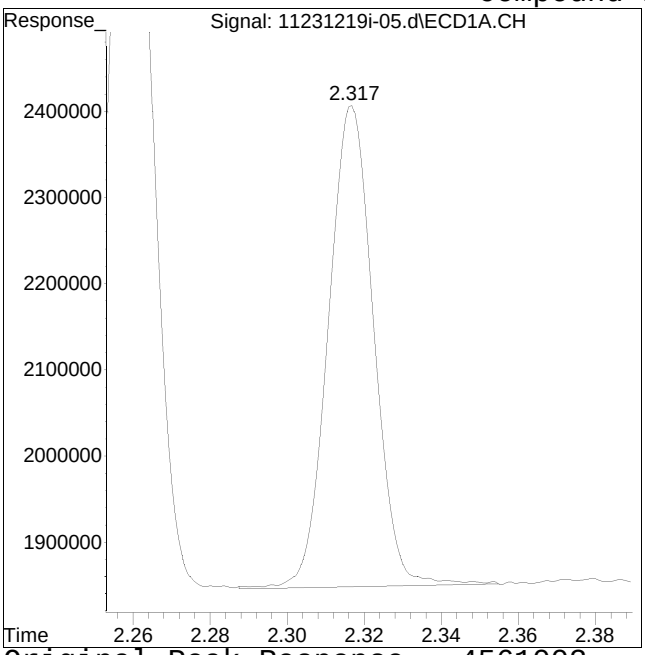


Original Peak Response = 8275437 Manual Peak Response = 8171673 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

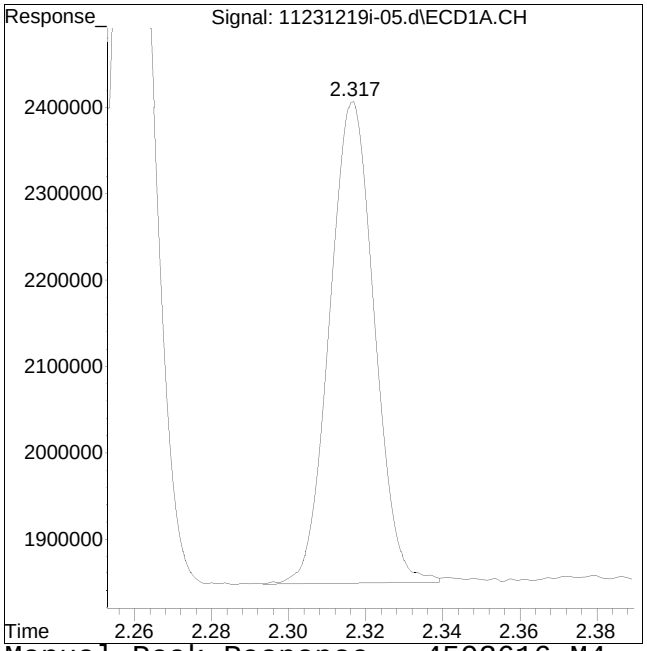
Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-05.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 2:12 pm Instrument : Pest 11
Sample : il3pest,42e,,pp 11404 L0.0Quant Date : 12/20/2023 6:06 pm

Compound #6: beta-BHC



Original Peak Response = 4561003



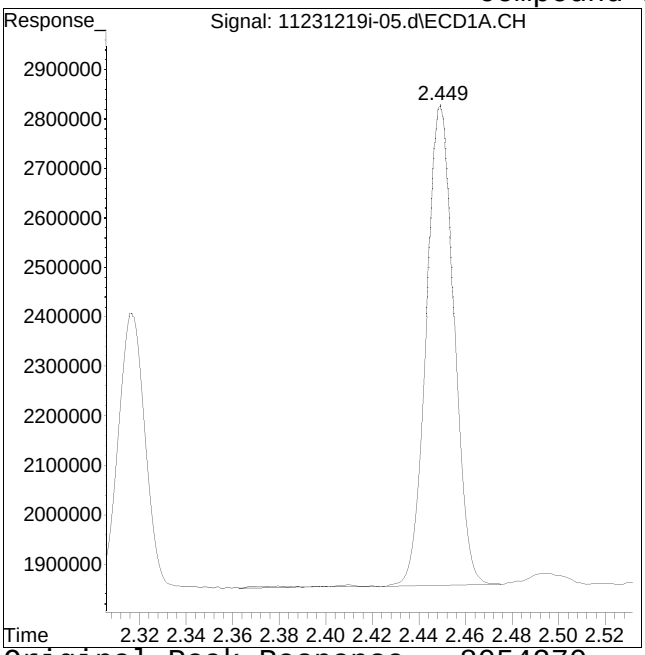
Manual Peak Response = 4503616 M4

M4 = Poor automated baseline construction.

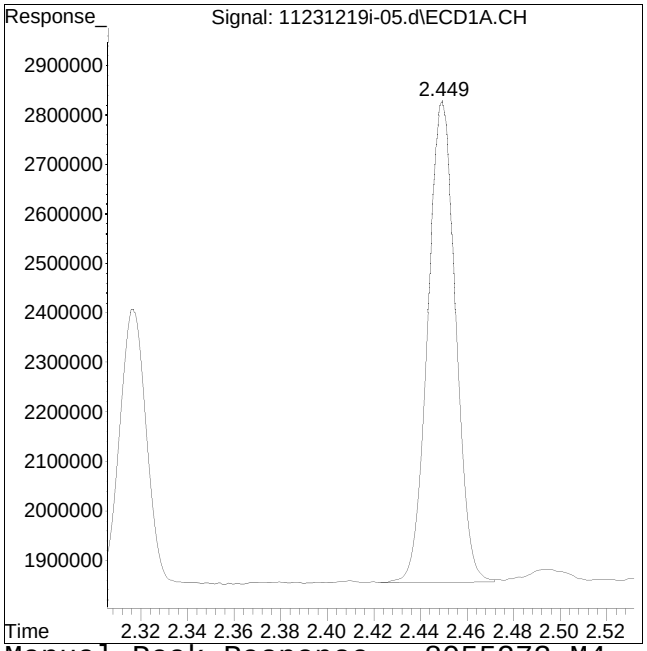
Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-05.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 2:12 pm Instrument : Pest 11
Sample : il3pest,42e,,pp 11404 L0.0Quant Date : 12/20/2023 6:06 pm

Compound #7: delta-BHC



Original Peak Response = 8054270



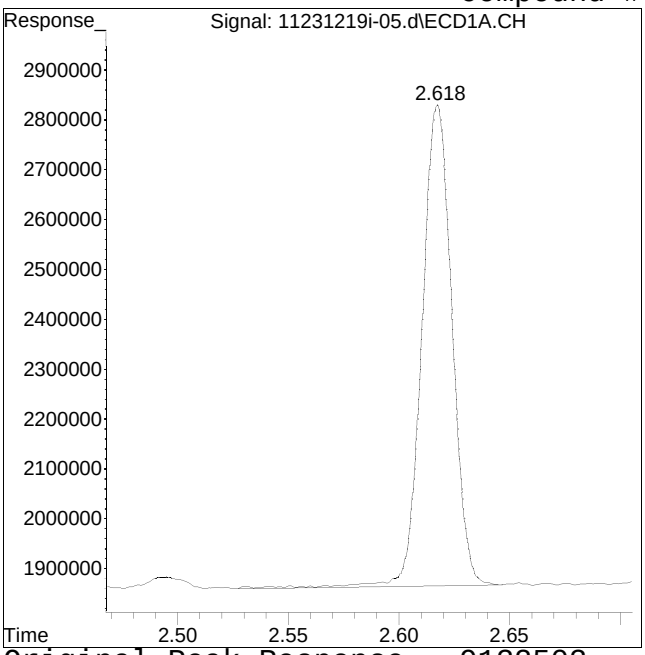
Manual Peak Response = 8055273 M4

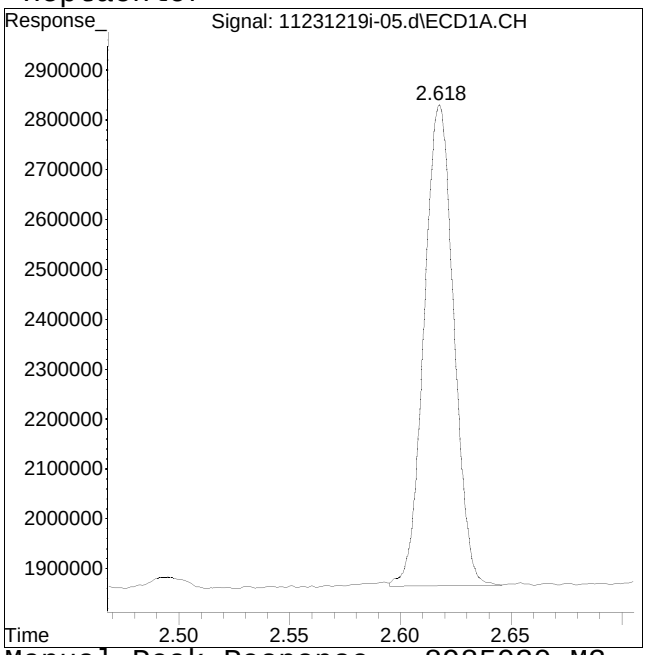
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-05.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 2:12 pm Instrument : Pest 11
Sample : il3pest,42e,,pp 11404 L0.0Quant Date : 12/20/2023 6:06 pm

Compound #8: Heptachlor



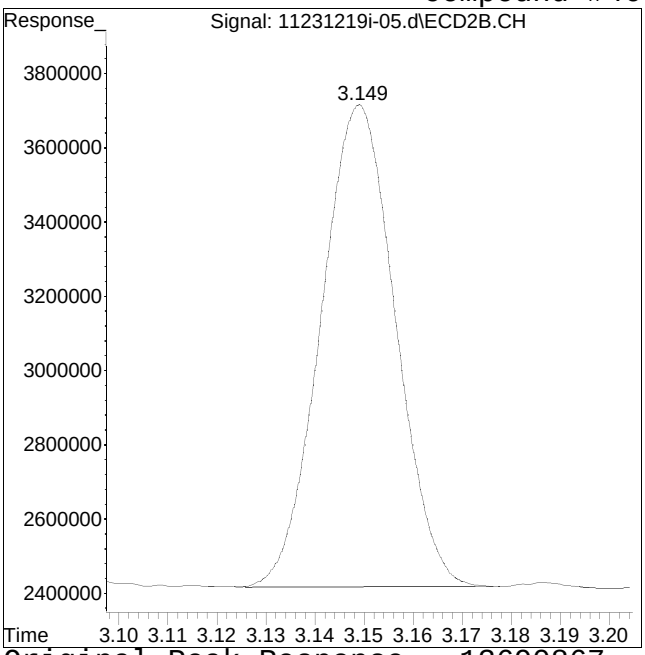


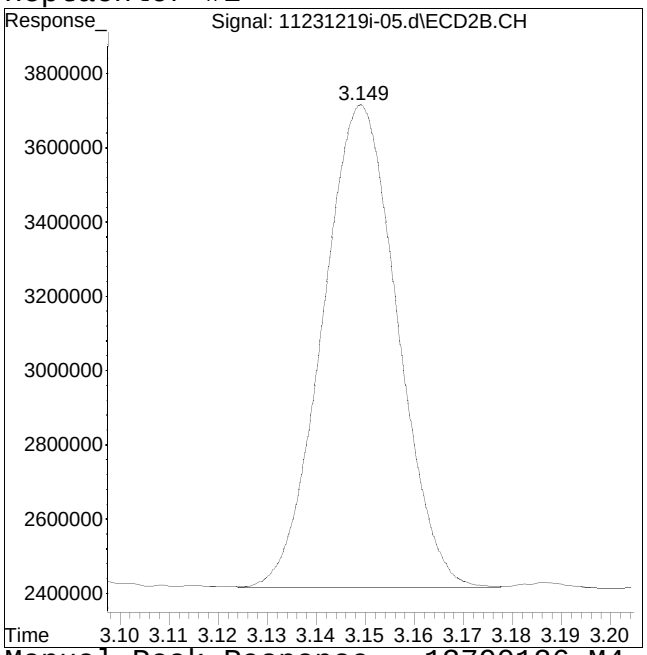
Original Peak Response = 9132503 Manual Peak Response = 8985030 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-05.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 2:12 pm Instrument : Pest 11
Sample : il3pest,42e,,pp 11404 L0.0Quant Date : 12/20/2023 6:06 pm

Compound #46: Heptachlor #2



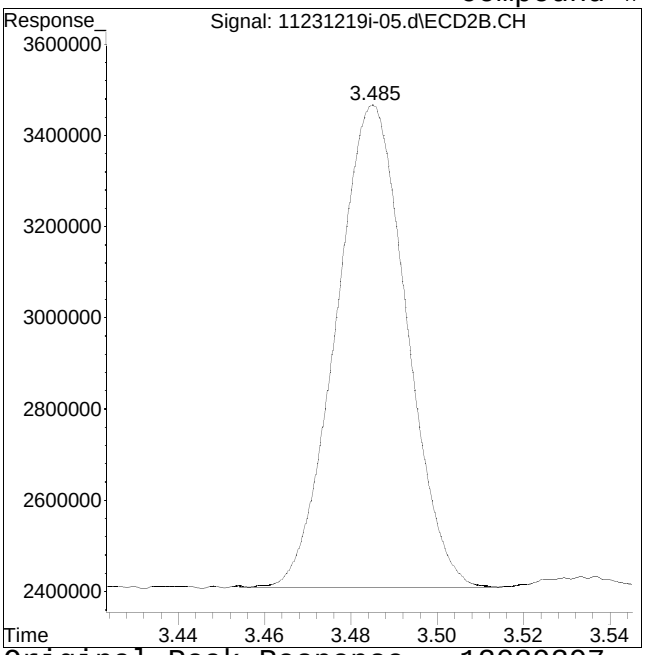


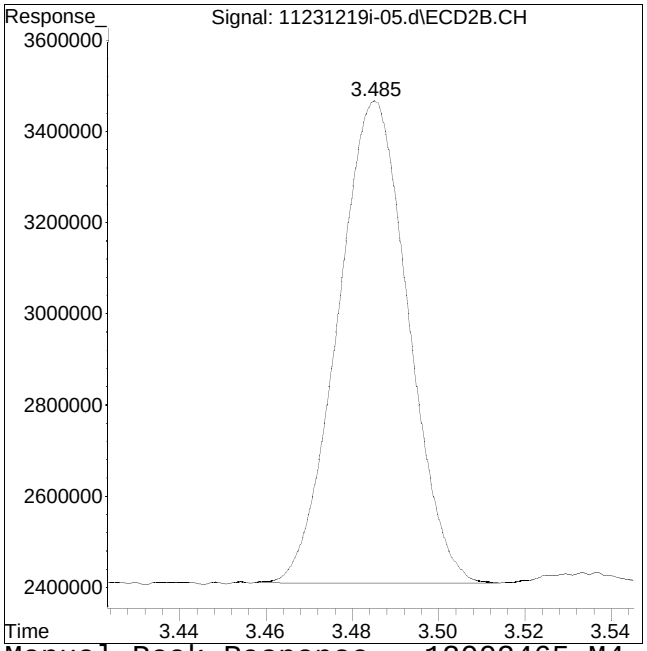
Original Peak Response = 13690867 Manual Peak Response = 13790126 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-05.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 2:12 pm Instrument : Pest 11
Sample : il3pest,42e,,pp 11404 L0.0Quant Date : 12/20/2023 6:06 pm

Compound #47: Aldrin #2



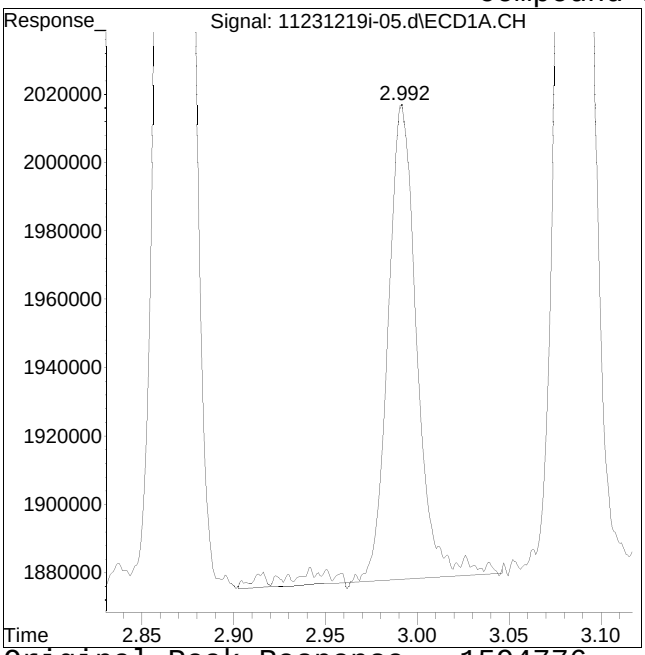


Original Peak Response = 12039397 Manual Peak Response = 12002465 M4
M4 = Poor automated baseline construction.

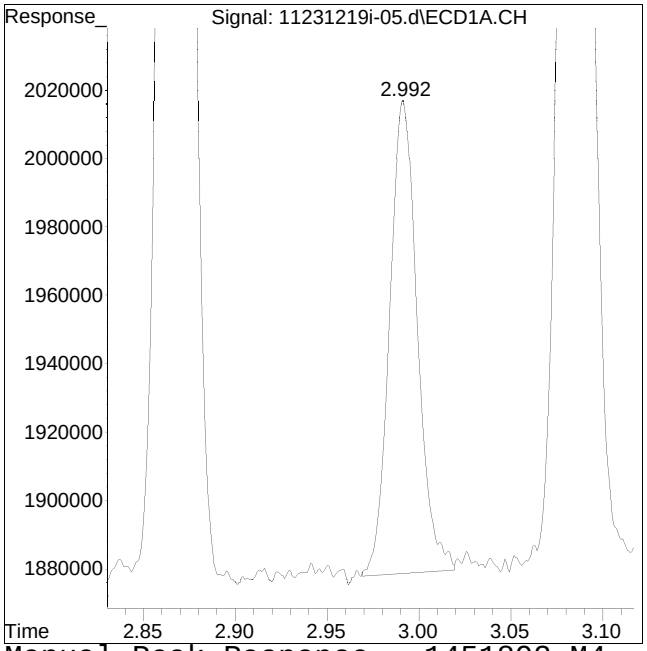
Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-05.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 2:12 pm Instrument : Pest 11
Sample : il3pest,42e,,pp 11404 L0.0Quant Date : 12/20/2023 6:06 pm

Compound #10: Alachlor



Original Peak Response = 1594776



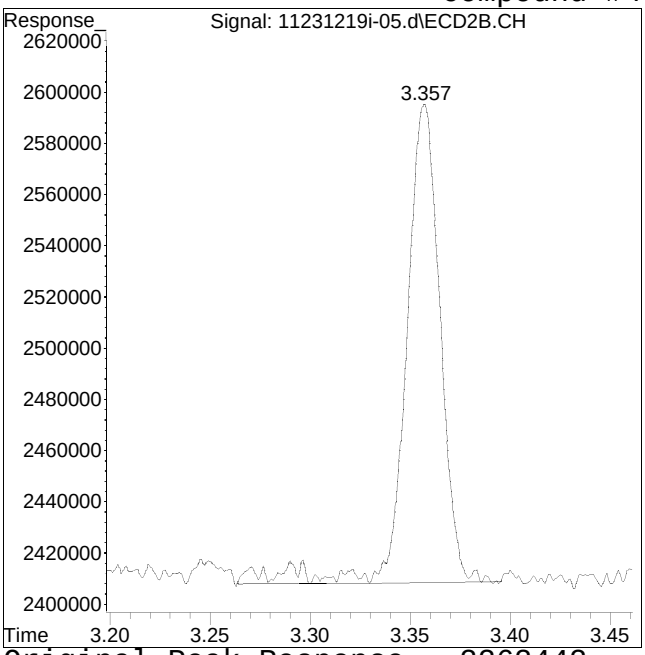
Manual Peak Response = 1451892 M4

M4 = Poor automated baseline construction.

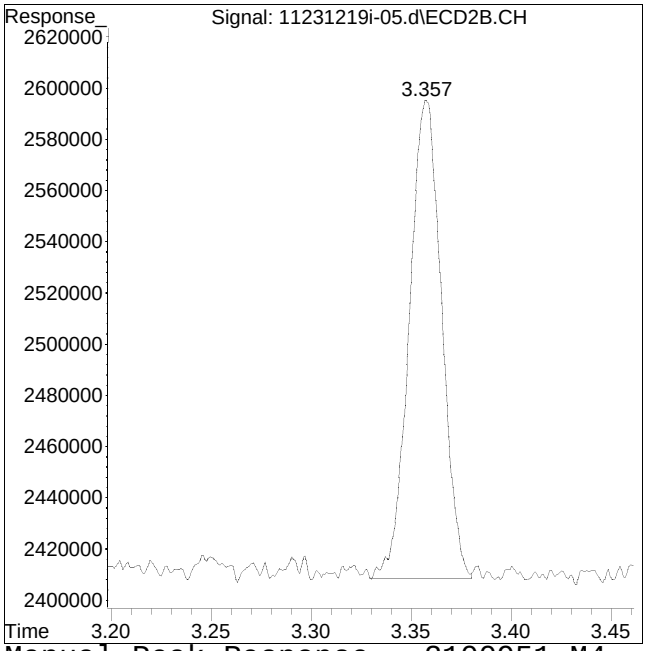
Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-05.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 2:12 pm Instrument : Pest 11
Sample : il3pest,42e,,pp 11404 L0.0Quant Date : 12/20/2023 6:06 pm

Compound #48: Alachlor #2



Original Peak Response = 2262442



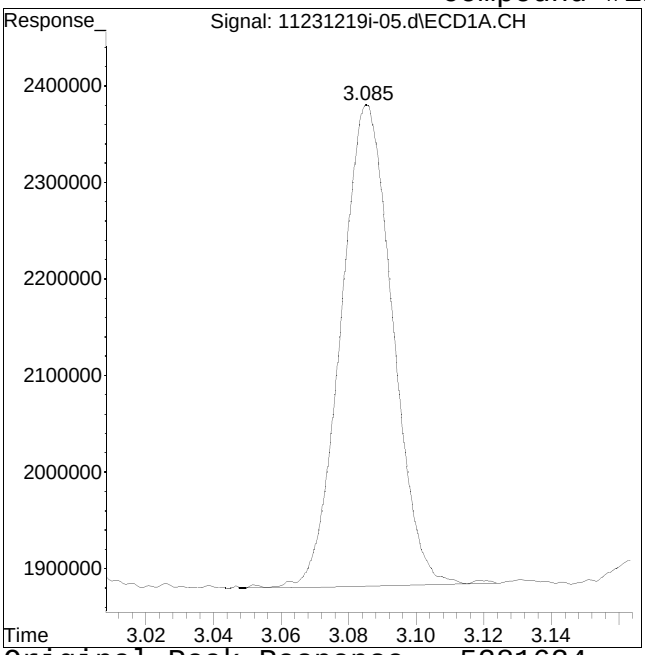
Manual Peak Response = 2100951 M4

M4 = Poor automated baseline construction.

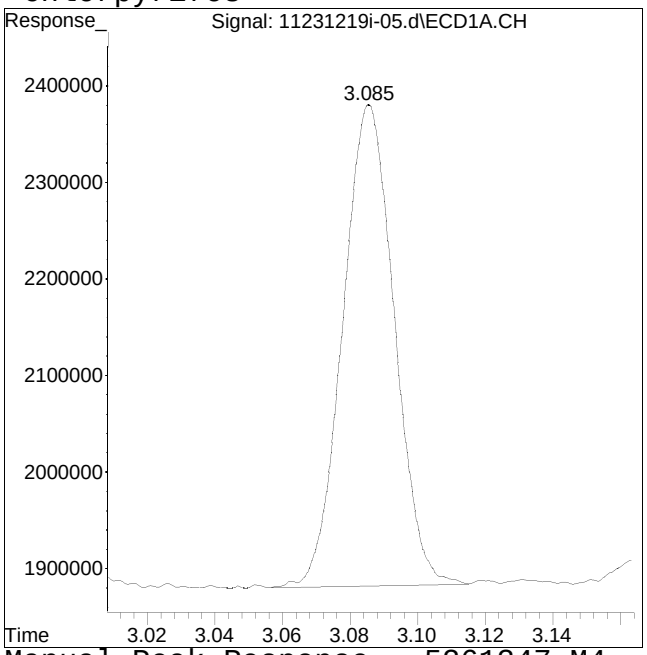
Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-05.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 2:12 pm Instrument : Pest 11
Sample : il3pest,42e,,pp 11404 L0.0Quant Date : 12/20/2023 6:06 pm

Compound #11: Chlorpyrifos



Original Peak Response = 5281624



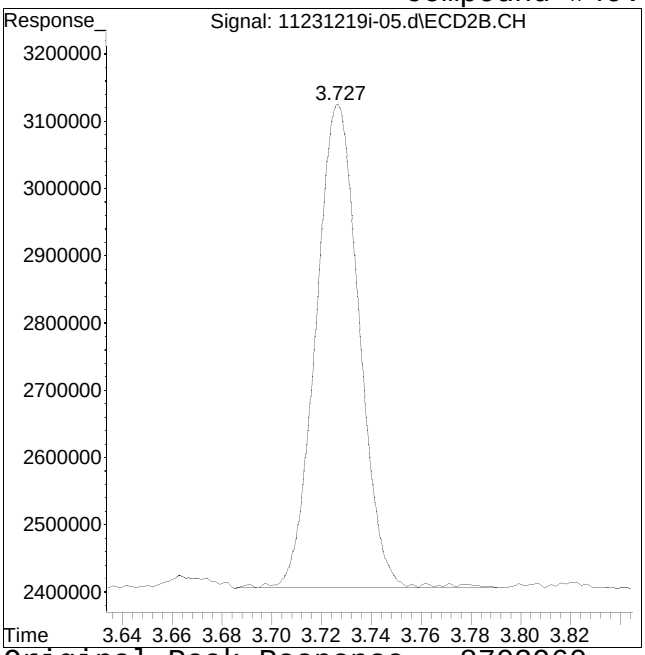
Manual Peak Response = 5261347 M4

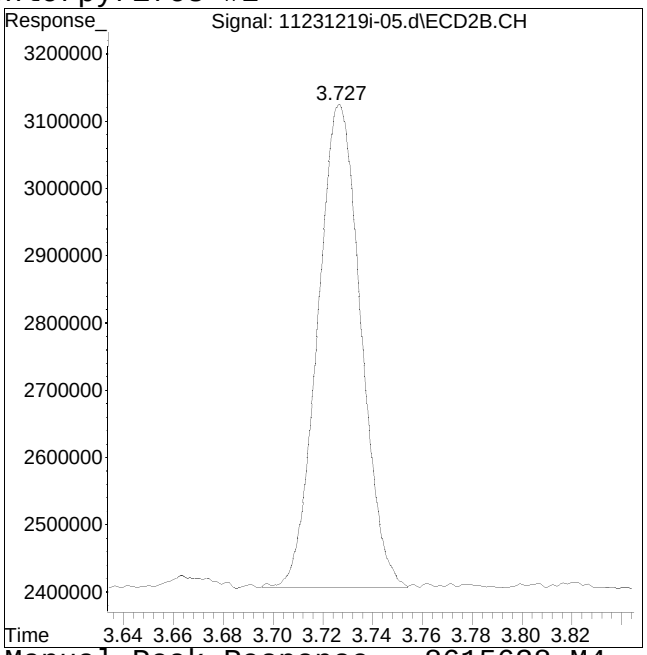
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-05.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 2:12 pm Instrument : Pest 11
Sample : il3pest,42e,,pp 11404 L0.0Quant Date : 12/20/2023 6:06 pm

Compound #49: Chlorpyrifos #2



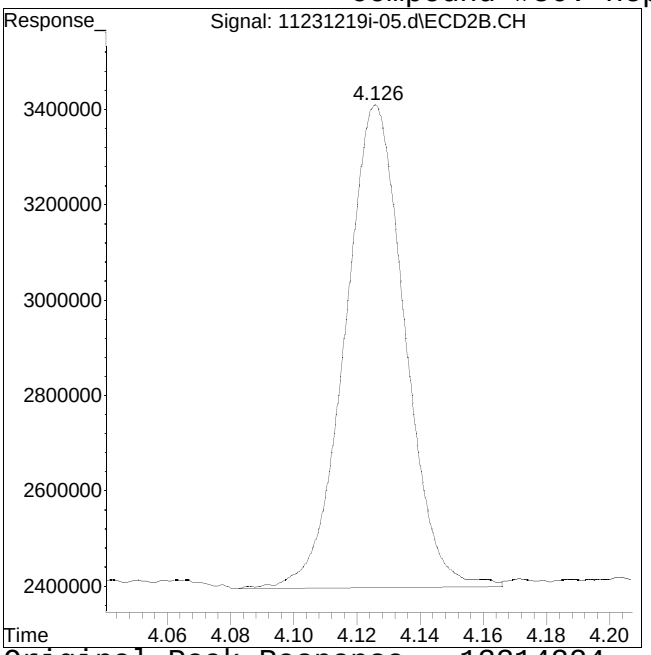


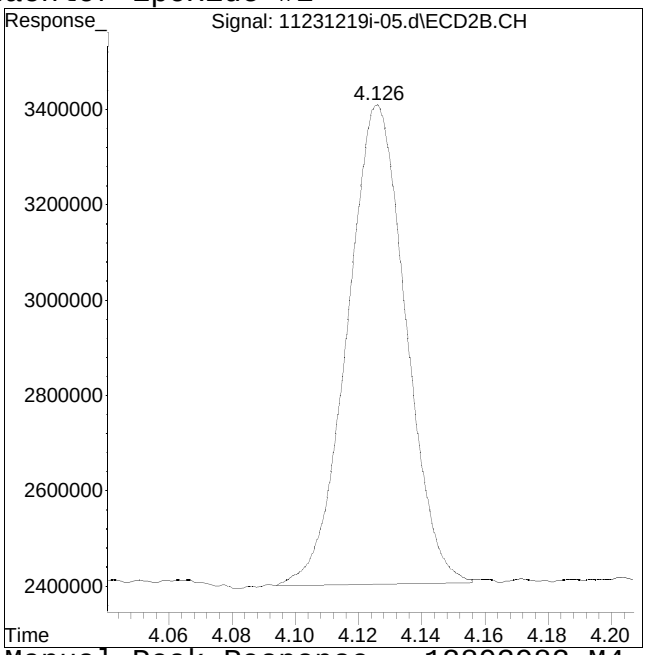
Original Peak Response = 8703960 Manual Peak Response = 8615638 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-05.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 2:12 pm Instrument : Pest 11
Sample : il3pest,42e,,pp 11404 L0.0Quant Date : 12/20/2023 6:06 pm

Compound #50: Heptachlor Epoxide #2



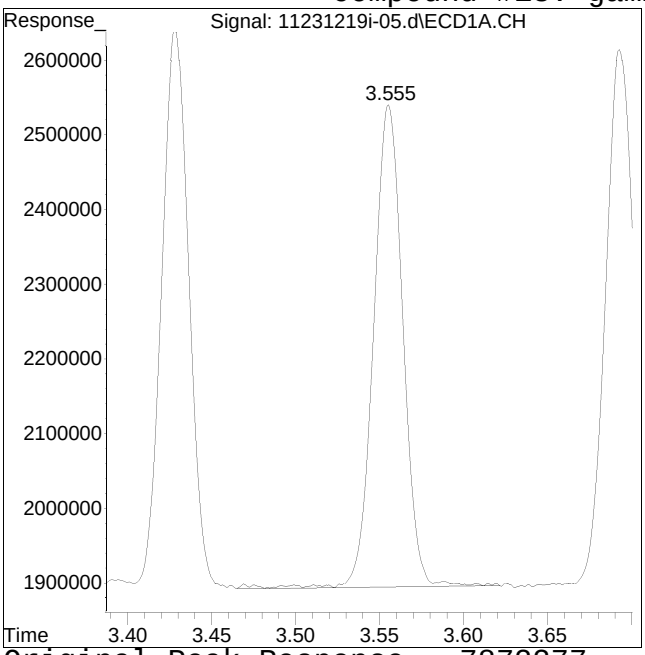


Original Peak Response = 13314224 Manual Peak Response = 12893982 M4
M4 = Poor automated baseline construction.

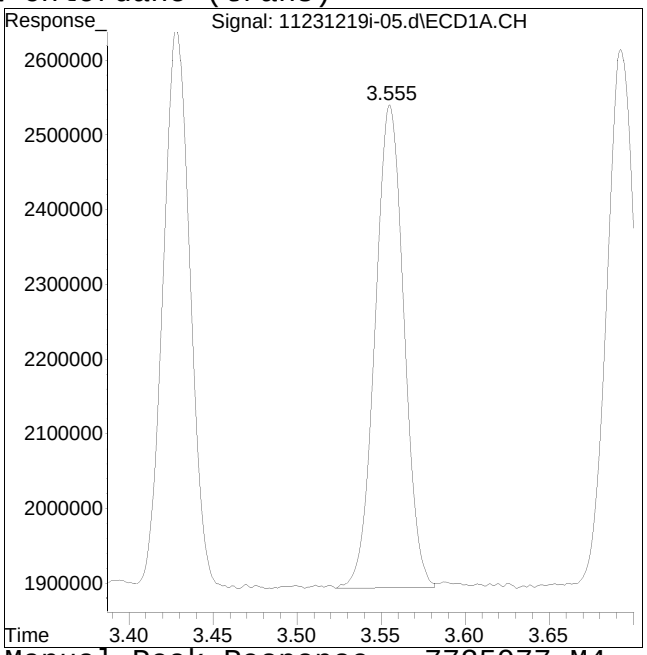
Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-05.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 2:12 pm Instrument : Pest 11
Sample : il3pest,42e,,pp 11404 L0.0Quant Date : 12/20/2023 6:06 pm

Compound #13: gamma-Chlordane (trans)



Original Peak Response = 7872277



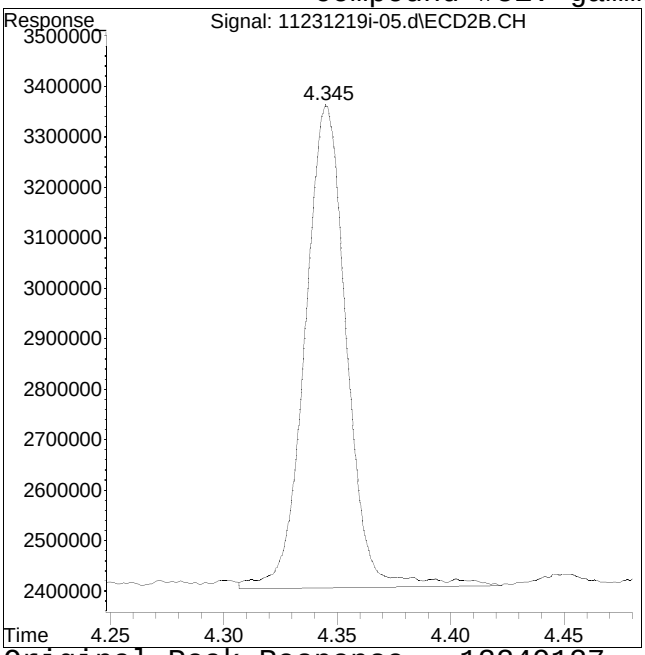
Manual Peak Response = 7725077 M4

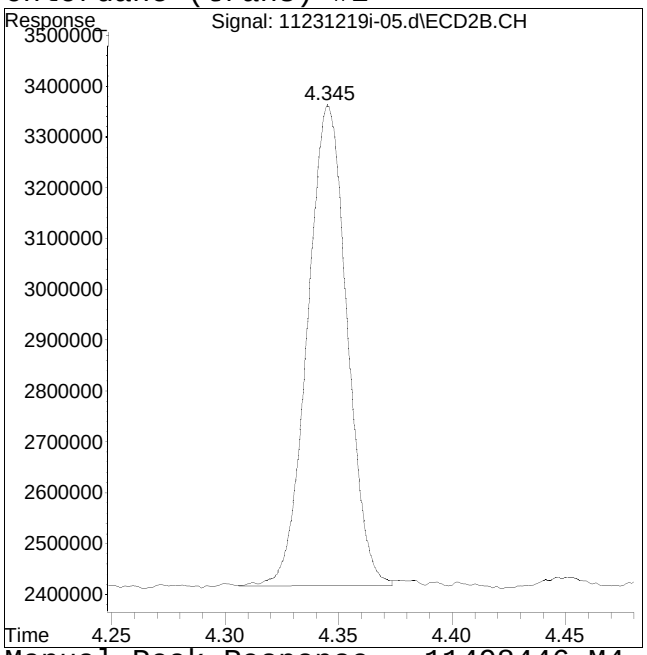
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-05.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 2:12 pm Instrument : Pest 11
Sample : il3pest,42e,,pp 11404 L0.0Quant Date : 12/20/2023 6:06 pm

Compound #51: gamma-Chlordane (trans) #2



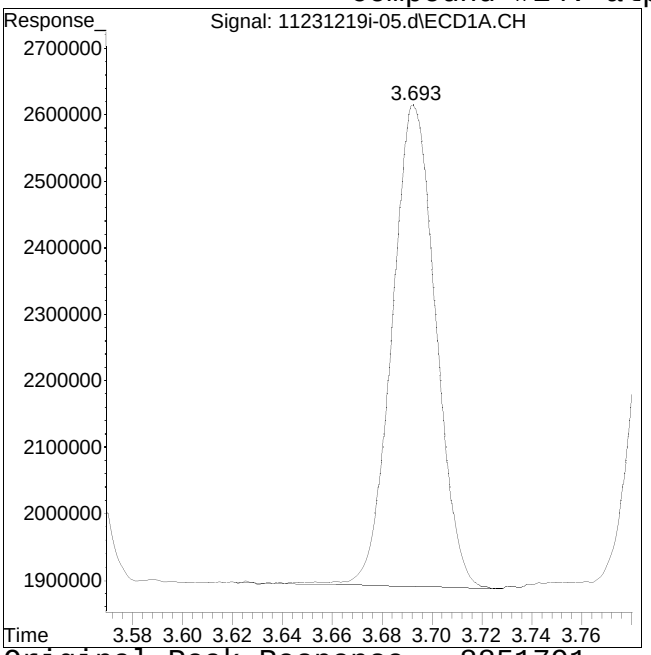


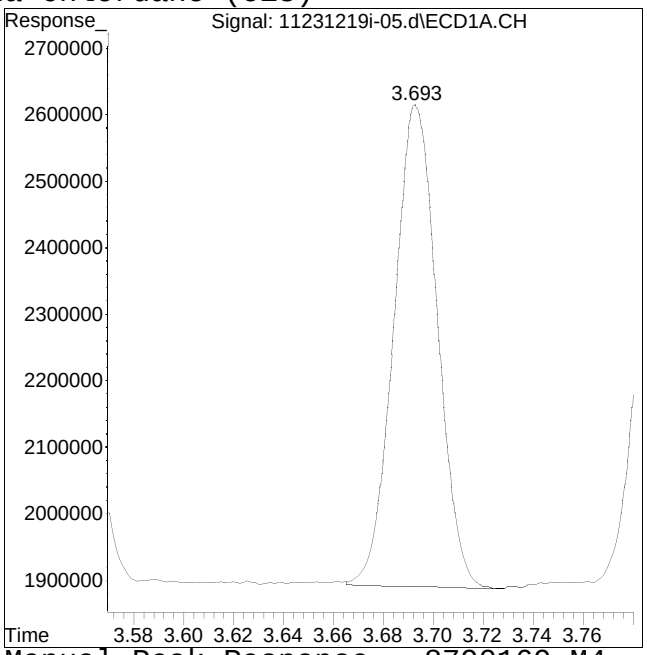
Original Peak Response = 12249127 Manual Peak Response = 11498446 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-05.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 2:12 pm Instrument : Pest 11
Sample : il3pest,42e,,pp 11404 L0.0Quant Date : 12/20/2023 6:06 pm

Compound #14: alpha-Chlordane (cis)



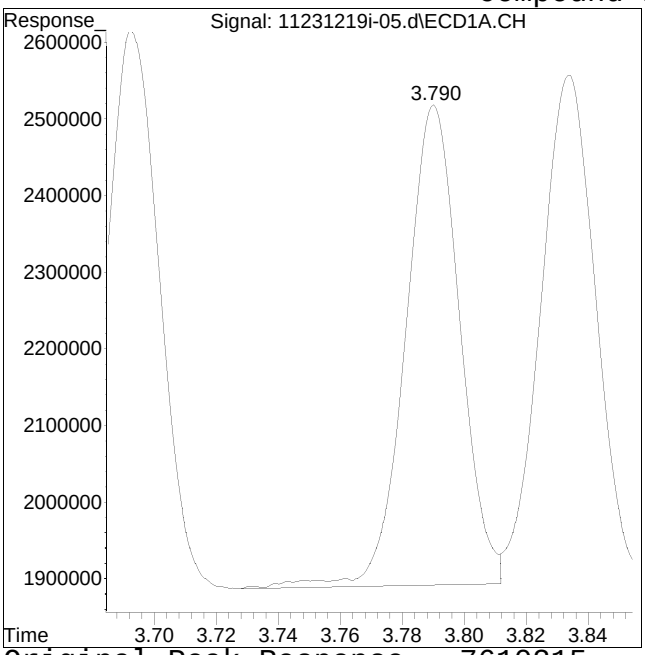


Original Peak Response = 8851791 Manual Peak Response = 8790169 M4
M4 = Poor automated baseline construction.

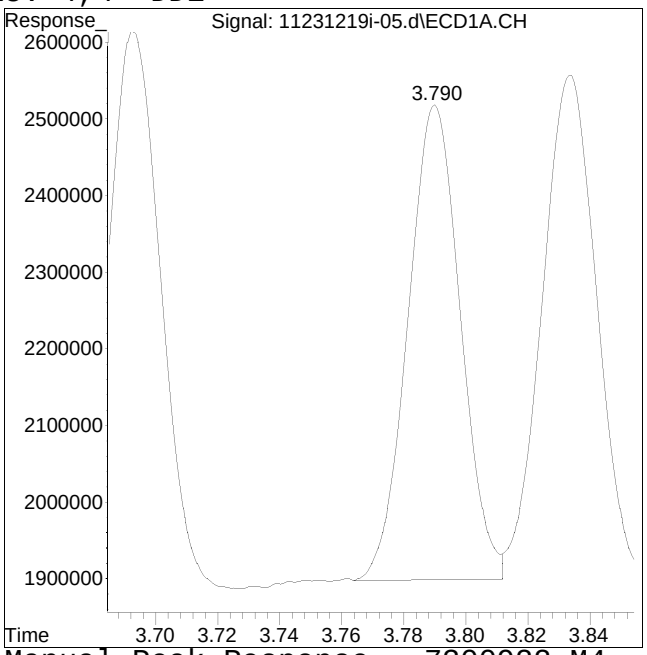
Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-05.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 2:12 pm Instrument : Pest 11
Sample : il3pest,42e,,pp 11404 L0.0Quant Date : 12/20/2023 6:06 pm

Compound #15: 4,4'-DDE



Original Peak Response = 7610215



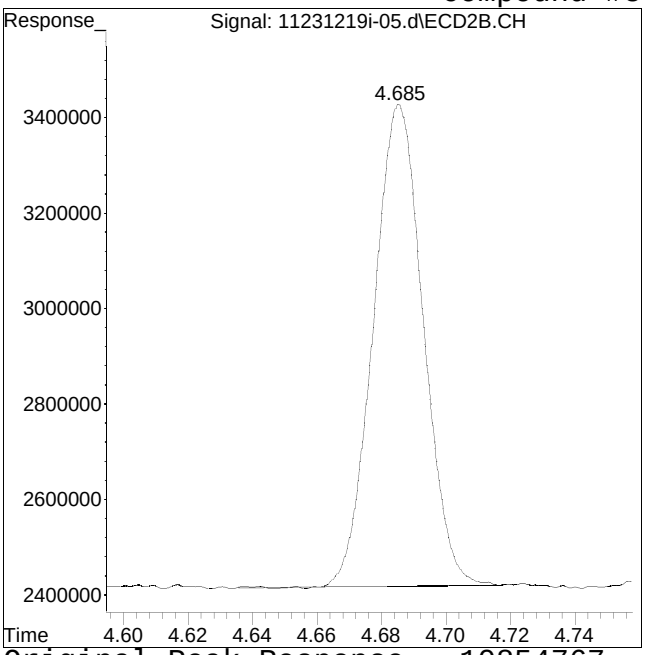
Manual Peak Response = 7300922 M4

M4 = Poor automated baseline construction.

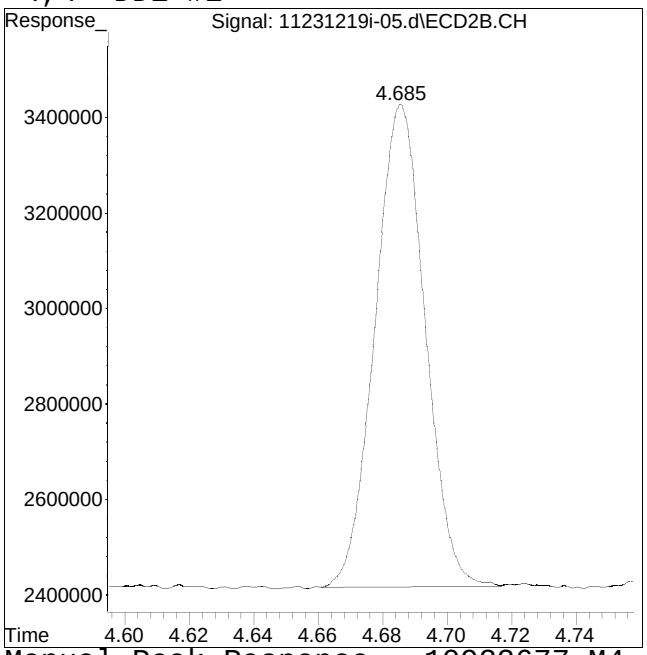
Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-05.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 2:12 pm Instrument : Pest 11
Sample : il3pest,42e,,pp 11404 L0.0Quant Date : 12/20/2023 6:06 pm

Compound #53: 4,4'-DDE #2



Original Peak Response = 10854767



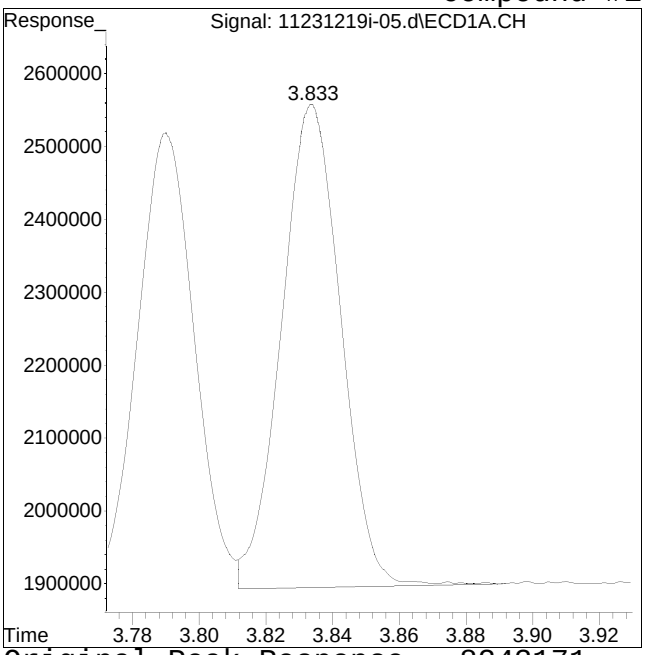
Manual Peak Response = 10922677 M4

M4 = Poor automated baseline construction.

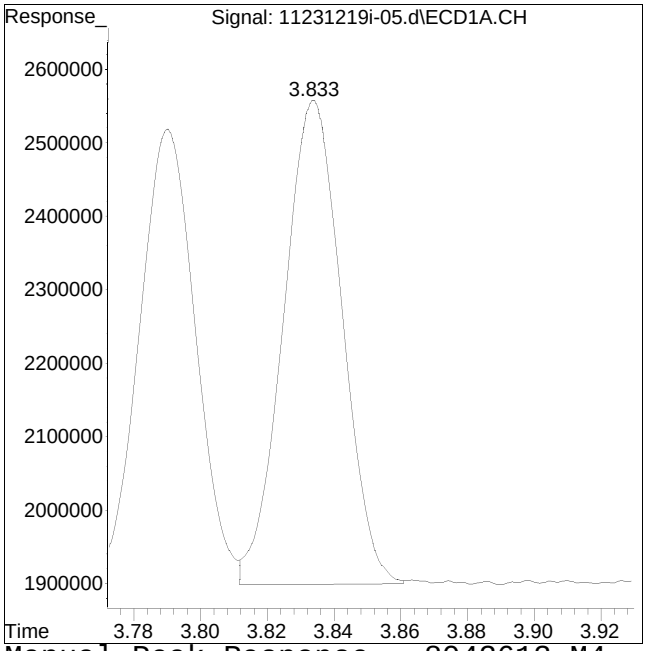
Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-05.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 2:12 pm Instrument : Pest 11
Sample : il3pest,42e,,pp 11404 L0.0Quant Date : 12/20/2023 6:06 pm

Compound #16: Endosulfan I



Original Peak Response = 8243171



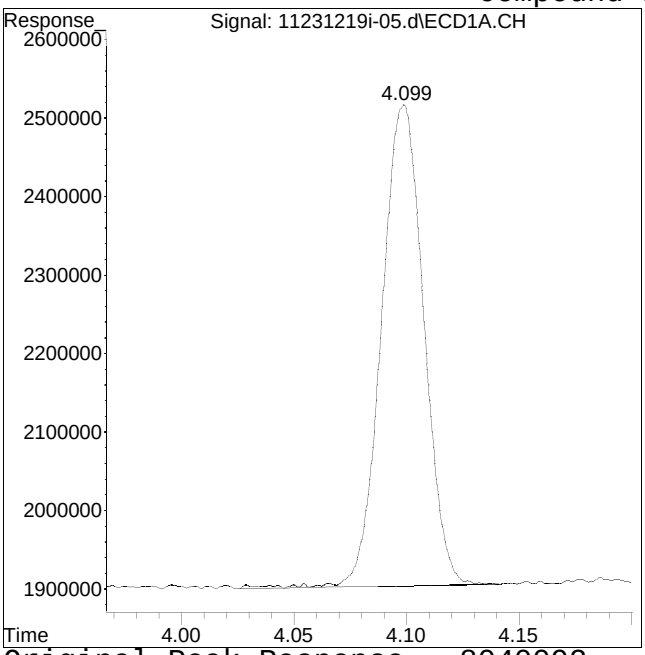
Manual Peak Response = 8043613 M4

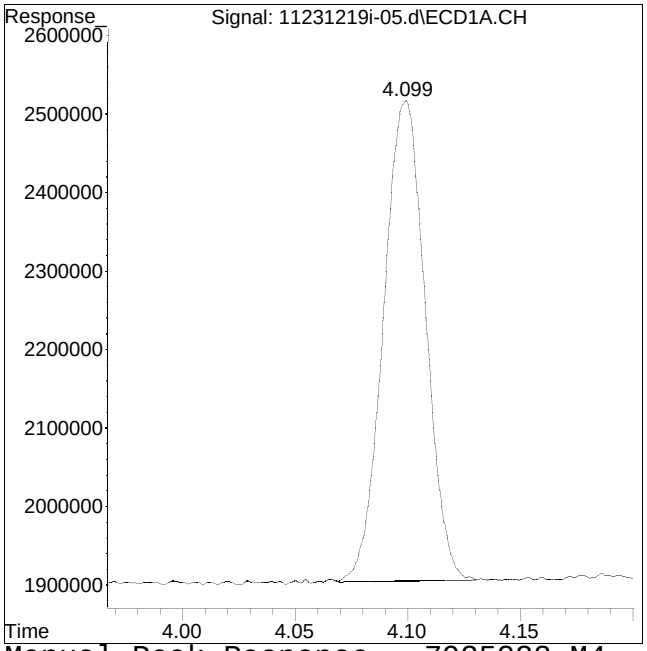
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-05.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 2:12 pm Instrument : Pest 11
Sample : il3pest,42e,,pp 11404 L0.0Quant Date : 12/20/2023 6:06 pm

Compound #17: Dieldrin



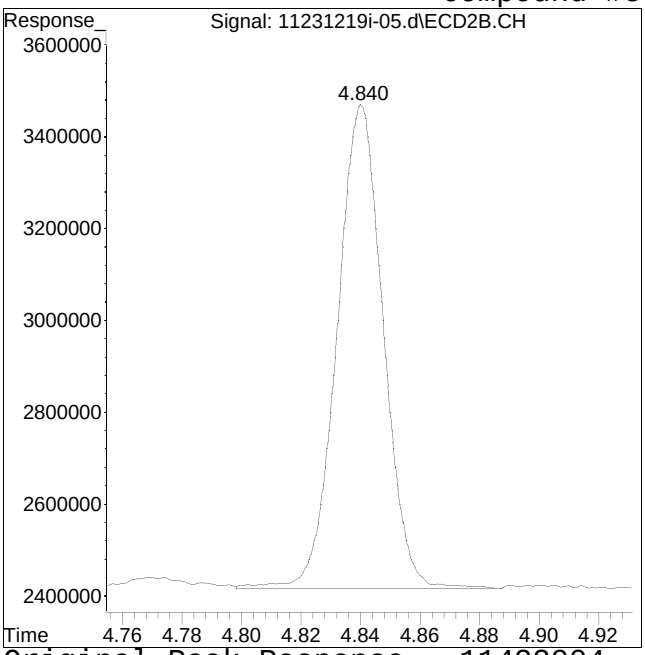


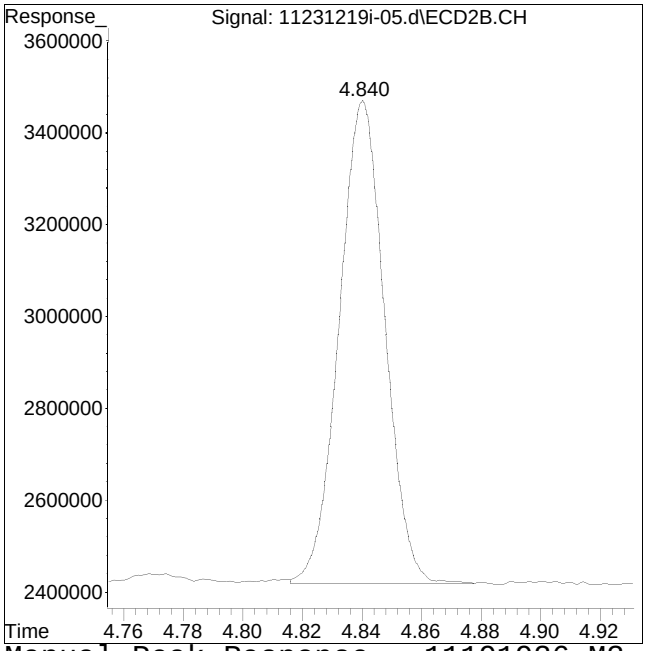
Original Peak Response = 8040092 Manual Peak Response = 7925222 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-05.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 2:12 pm Instrument : Pest 11
Sample : il3pest,42e,,pp 11404 L0.0Quant Date : 12/20/2023 6:06 pm

Compound #55: Dieldrin #2



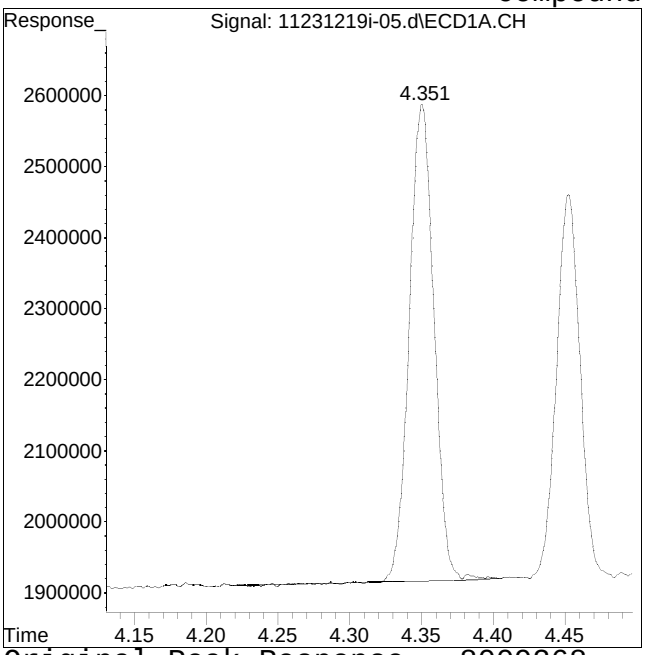


Original Peak Response = 11422004 Manual Peak Response = 11191926 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

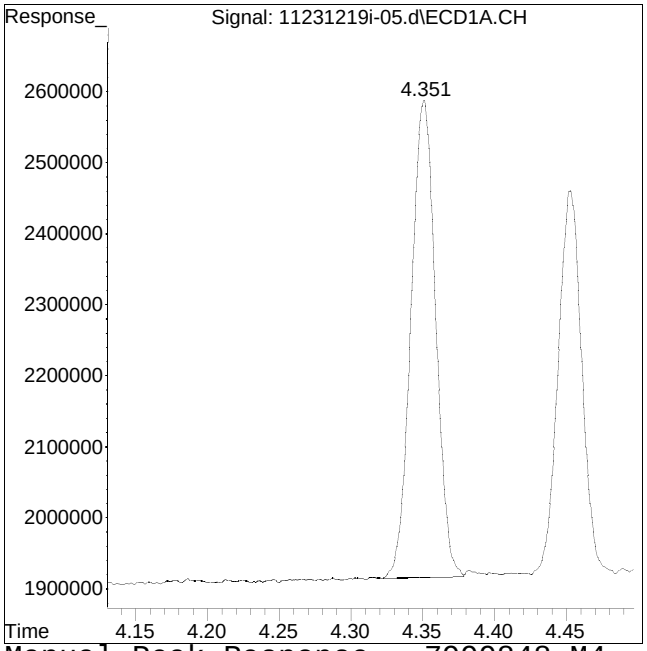
Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-05.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 2:12 pm Instrument : Pest 11
Sample : il3pest,42e,,pp 11404 L0.0Quant Date : 12/20/2023 6:06 pm

Compound #18: Endrin



Original Peak Response = 8009268



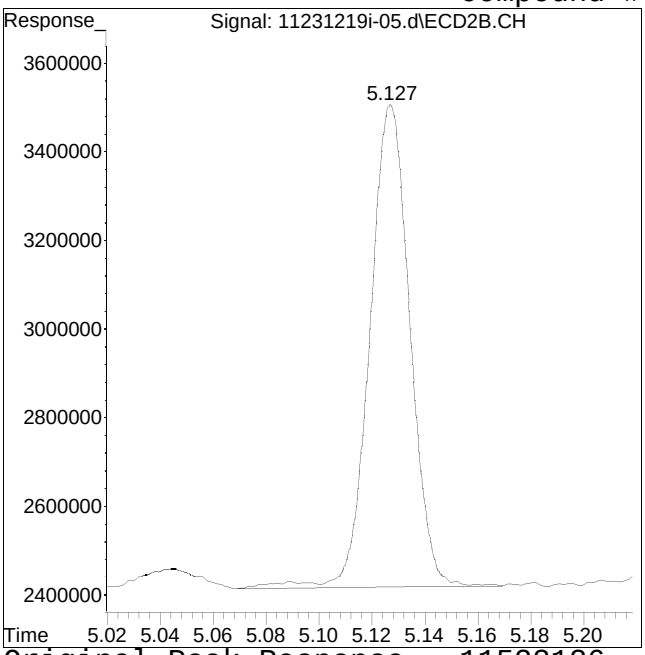
Manual Peak Response = 7999848 M4

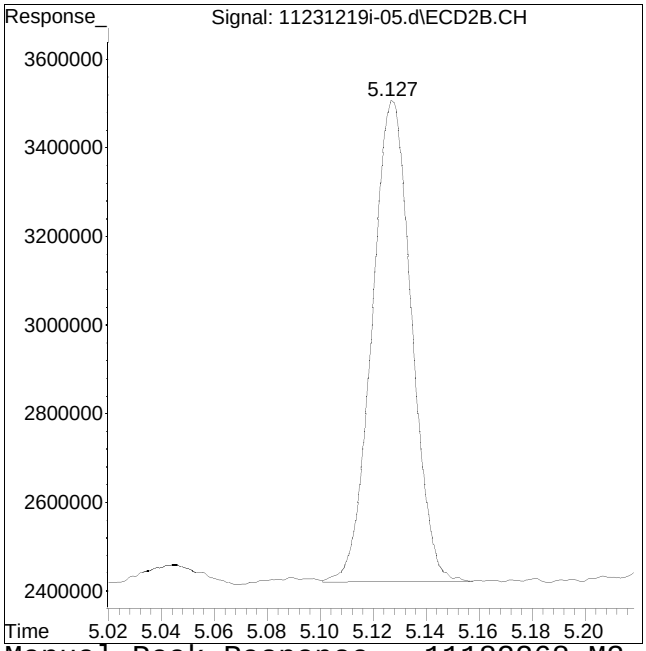
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-05.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 2:12 pm Instrument : Pest 11
Sample : il3pest,42e,,pp 11404 L0.0Quant Date : 12/20/2023 6:06 pm

Compound #56: Endrin #2



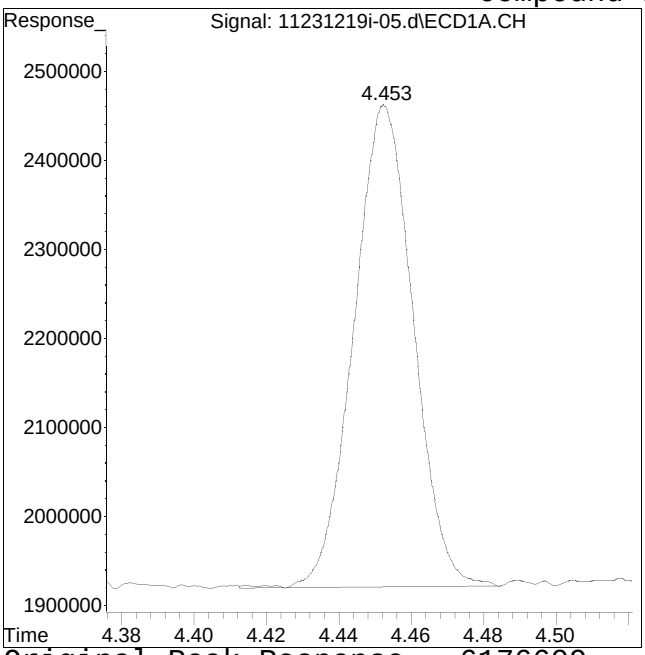


Original Peak Response = 11522126 Manual Peak Response = 11182268 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

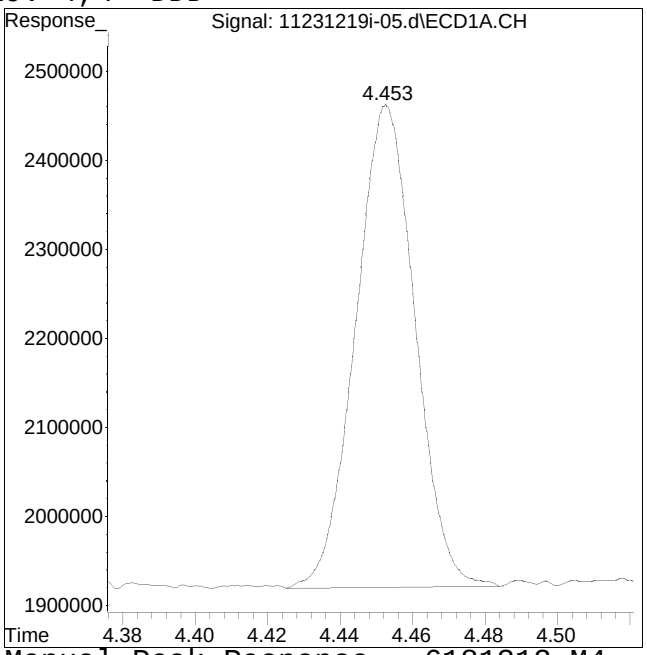
Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-05.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 2:12 pm Instrument : Pest 11
Sample : il3pest,42e,,pp 11404 L0.0Quant Date : 12/20/2023 6:06 pm

Compound #19: 4,4'-DDD



Original Peak Response = 6176609



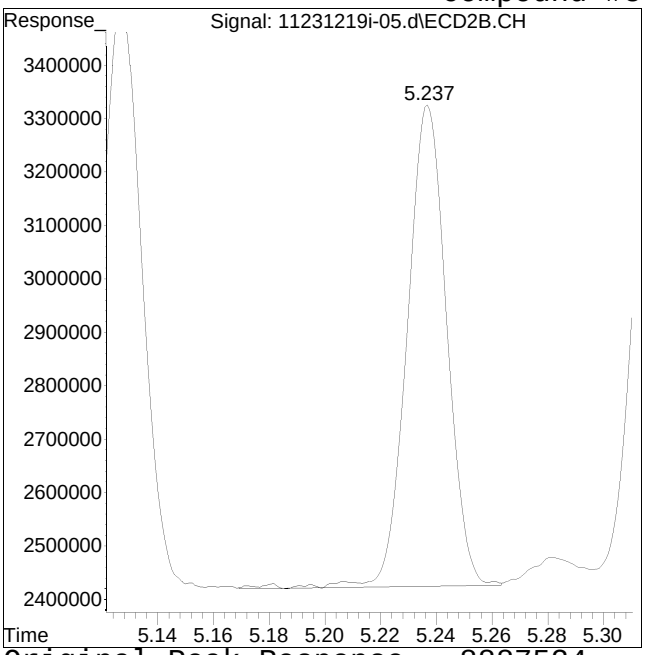
Manual Peak Response = 6181312 M4

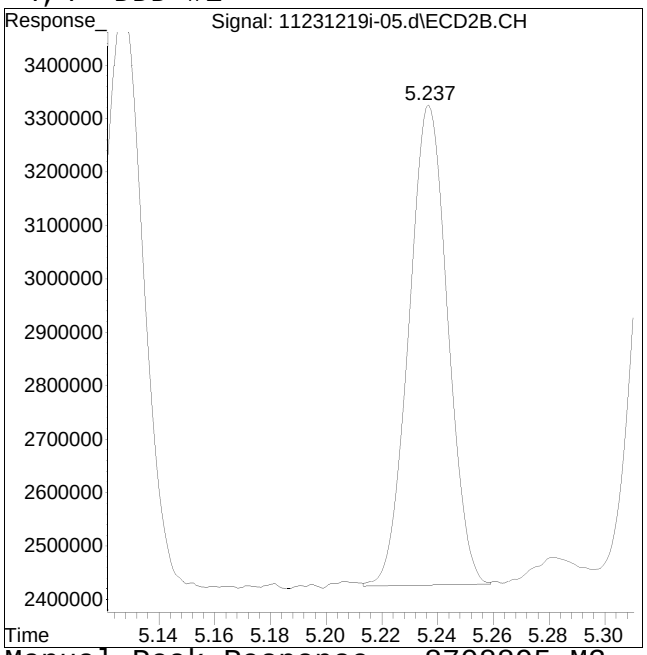
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-05.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 2:12 pm Instrument : Pest 11
Sample : il3pest,42e,,pp 11404 L0.0Quant Date : 12/20/2023 6:06 pm

Compound #57: 4,4'-DDD #2



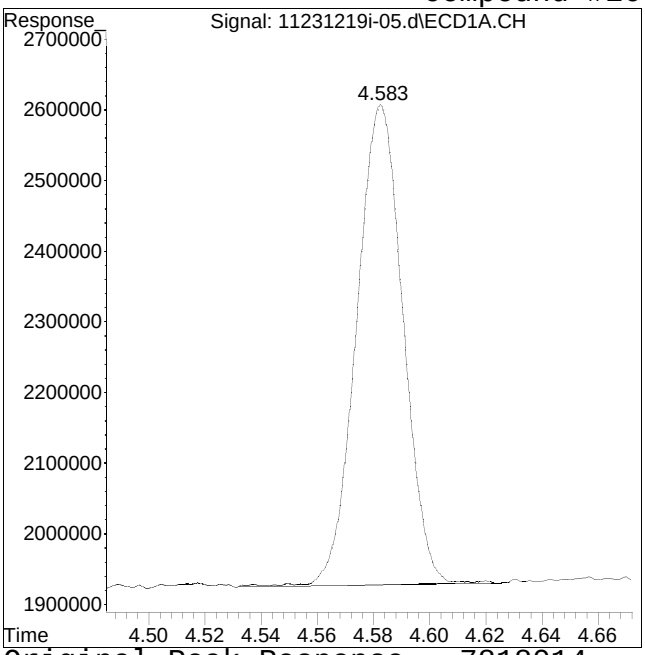


Original Peak Response = 8887524 Manual Peak Response = 8708895 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

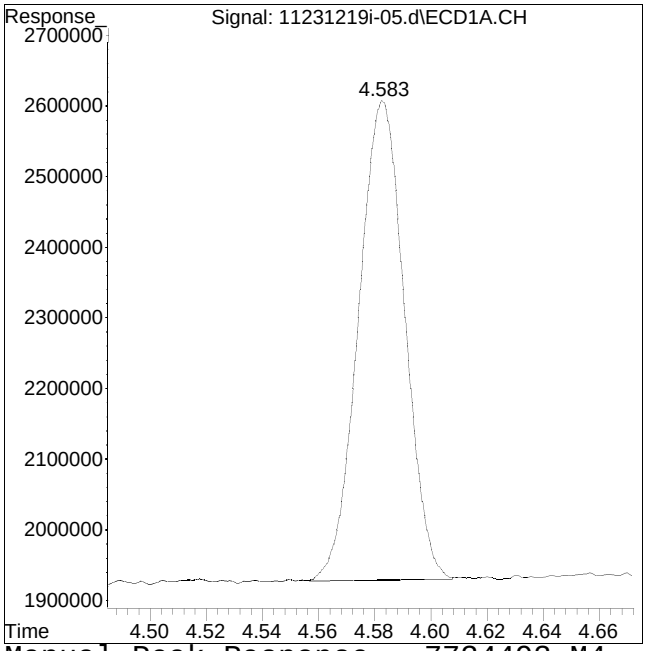
Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-05.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 2:12 pm Instrument : Pest 11
Sample : il3pest,42e,,pp 11404 L0.0Quant Date : 12/20/2023 6:06 pm

Compound #20: Endosulfan II



Original Peak Response = 7818014



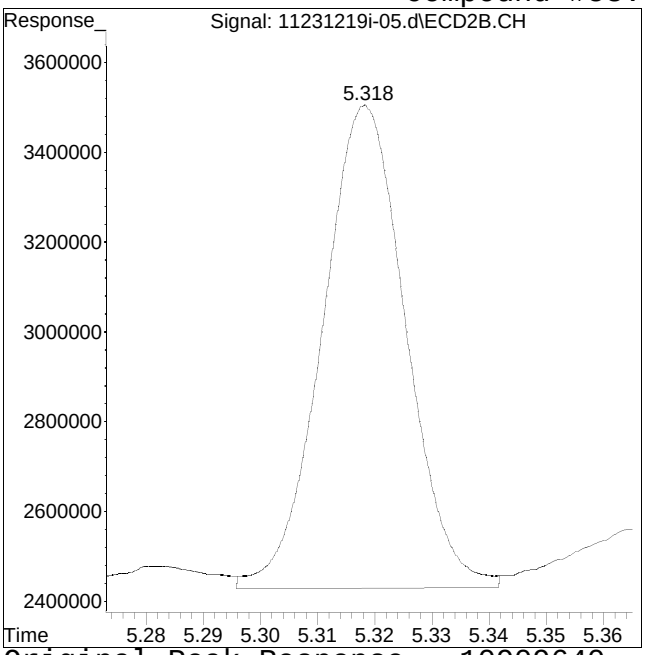
Manual Peak Response = 7734493 M4

M4 = Poor automated baseline construction.

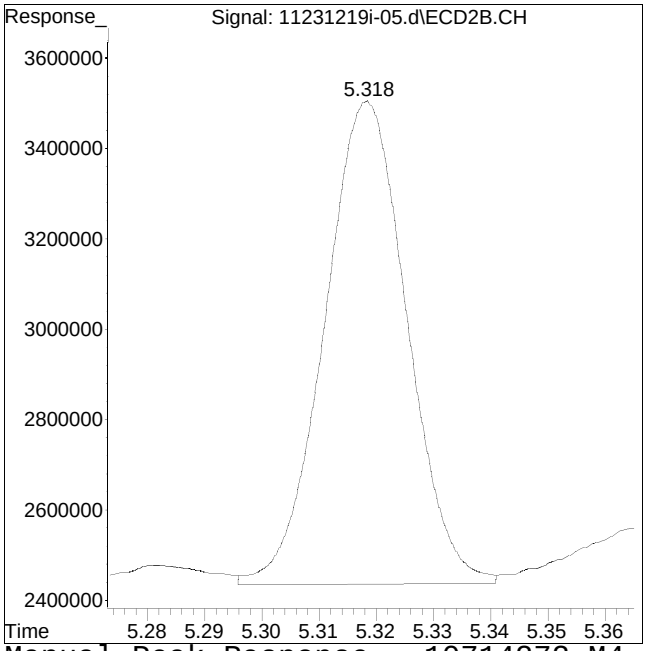
Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-05.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 2:12 pm Instrument : Pest 11
Sample : il3pest,42e,,pp 11404 L0.0Quant Date : 12/20/2023 6:06 pm

Compound #58: Endosulfan II #2



Original Peak Response = 10909640



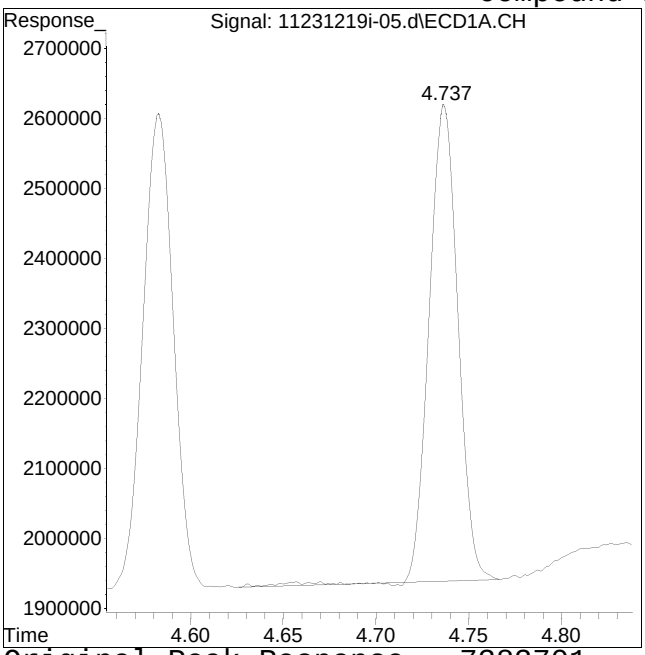
Manual Peak Response = 10714272 M4

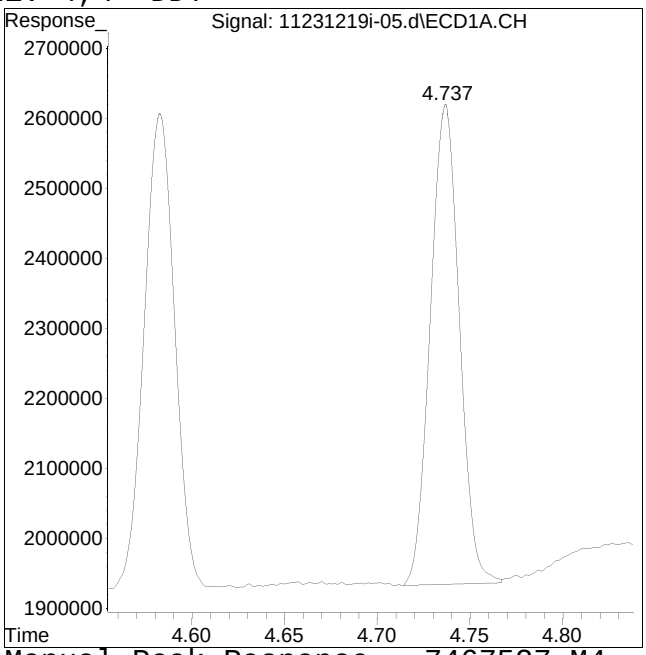
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-05.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 2:12 pm Instrument : Pest 11
Sample : il3pest,42e,,pp 11404 L0.0Quant Date : 12/20/2023 6:06 pm

Compound #21: 4,4'-DDT



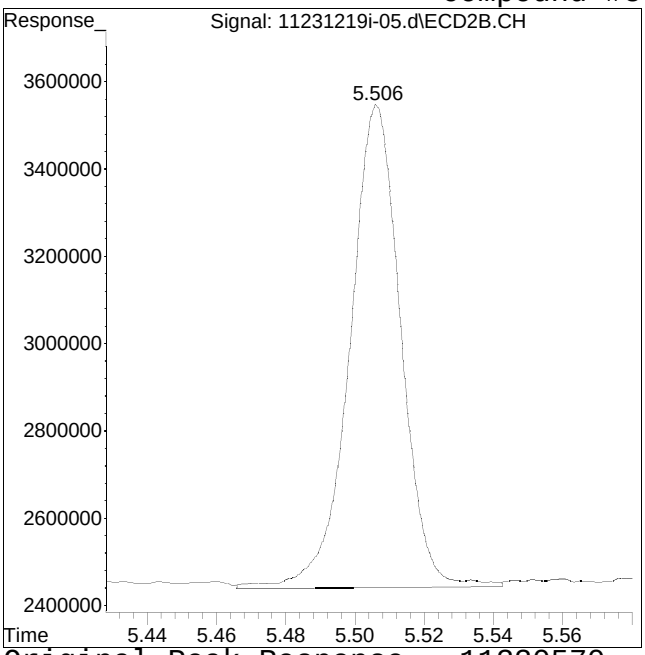


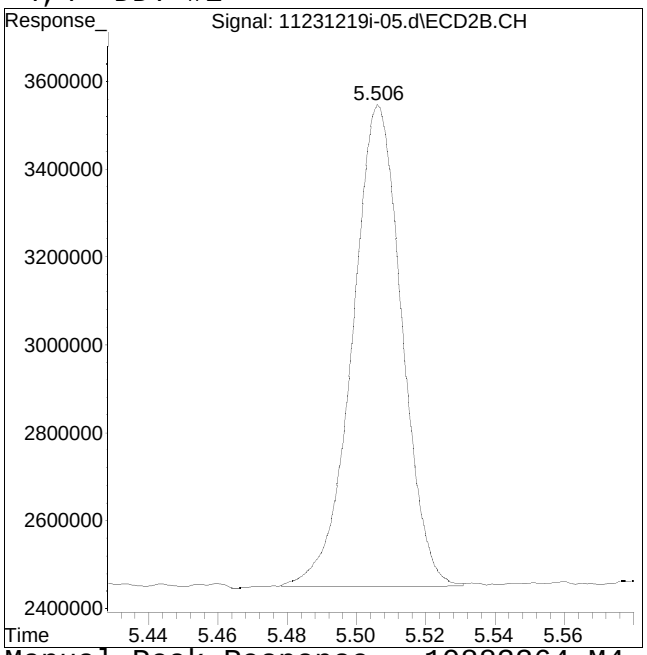
Original Peak Response = 7383701 Manual Peak Response = 7467527 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-05.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 2:12 pm Instrument : Pest 11
Sample : il3pest,42e,,pp 11404 L0.0Quant Date : 12/20/2023 6:06 pm

Compound #59: 4,4'-DDT #2



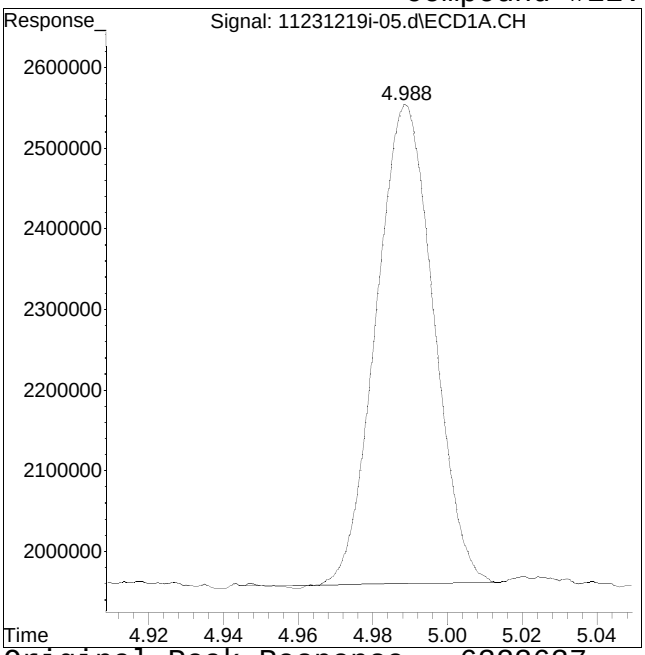


Original Peak Response = 11330570 Manual Peak Response = 10883364 M4
M4 = Poor automated baseline construction.

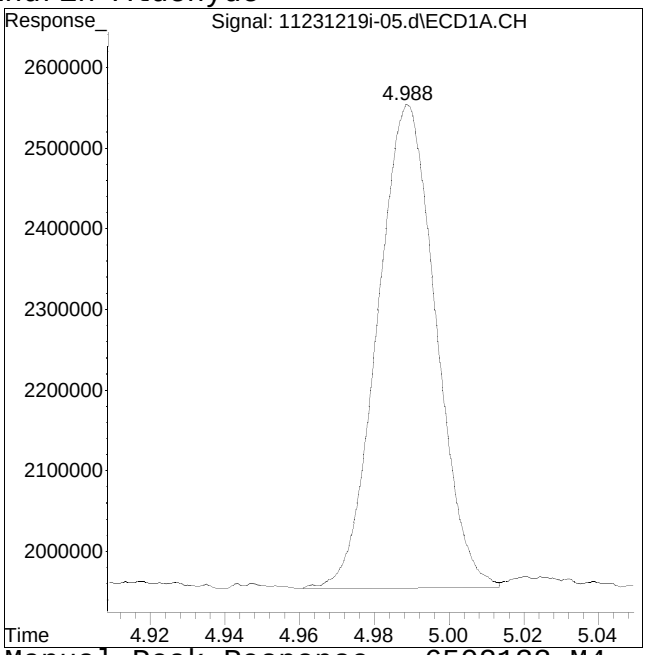
Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-05.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 2:12 pm Instrument : Pest 11
Sample : il3pest,42e,,pp 11404 L0.0Quant Date : 12/20/2023 6:06 pm

Compound #22: Endrin Aldehyde



Original Peak Response = 6323637



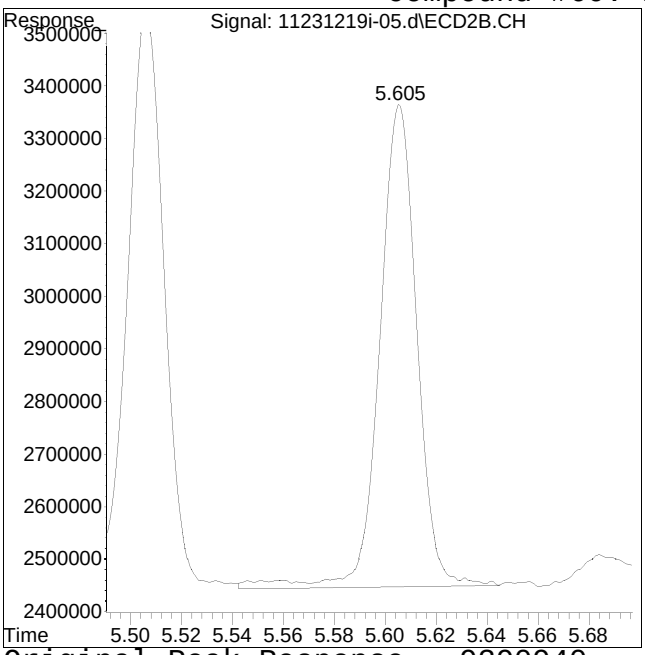
Manual Peak Response = 6502133 M4

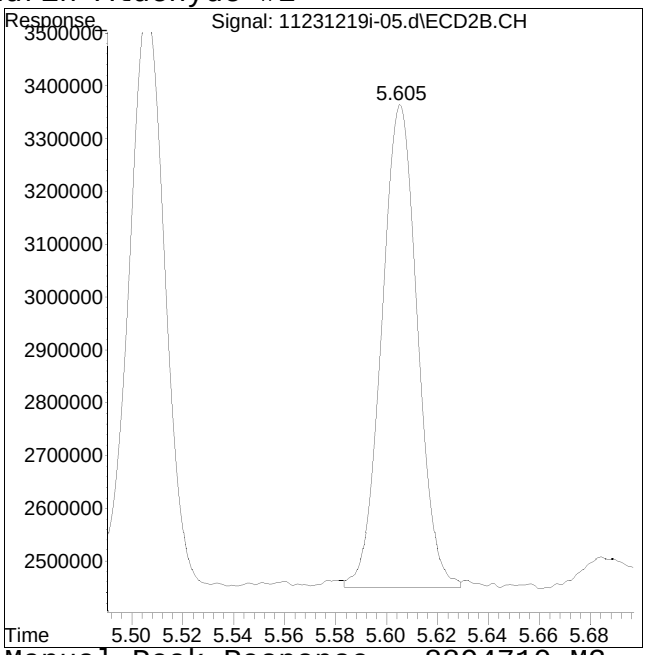
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-05.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 2:12 pm Instrument : Pest 11
Sample : il3pest,42e,,pp 11404 L0.0Quant Date : 12/20/2023 6:06 pm

Compound #60: Endrin Aldehyde #2



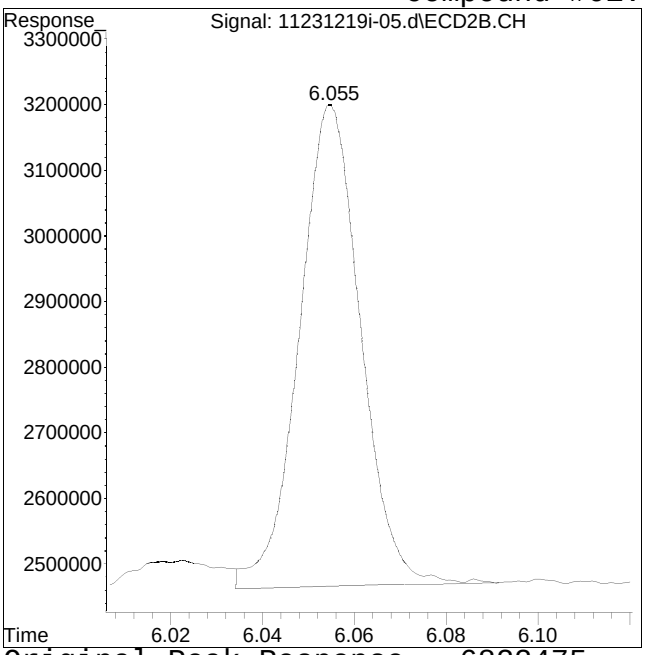


Original Peak Response = 9390940 Manual Peak Response = 8894710 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

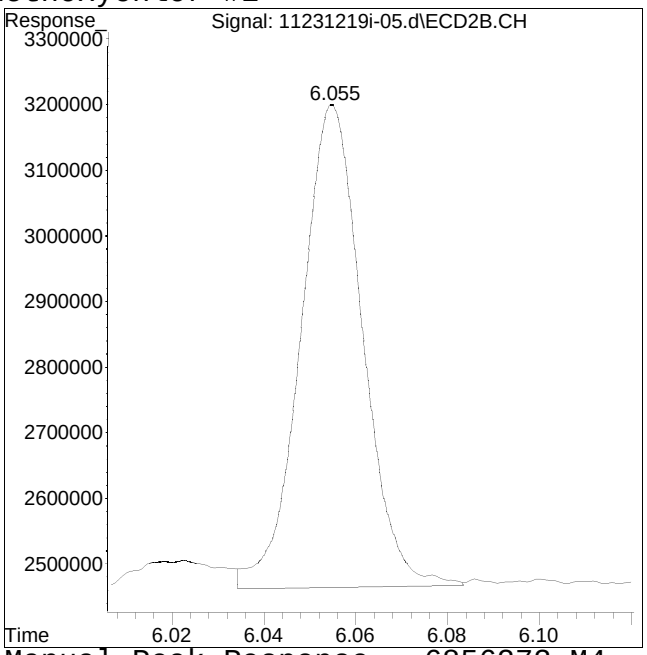
Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-05.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 2:12 pm Instrument : Pest 11
Sample : il3pest,42e,,pp 11404 L0.0Quant Date : 12/20/2023 6:06 pm

Compound #61: Methoxychlor #2



Original Peak Response = 6822475



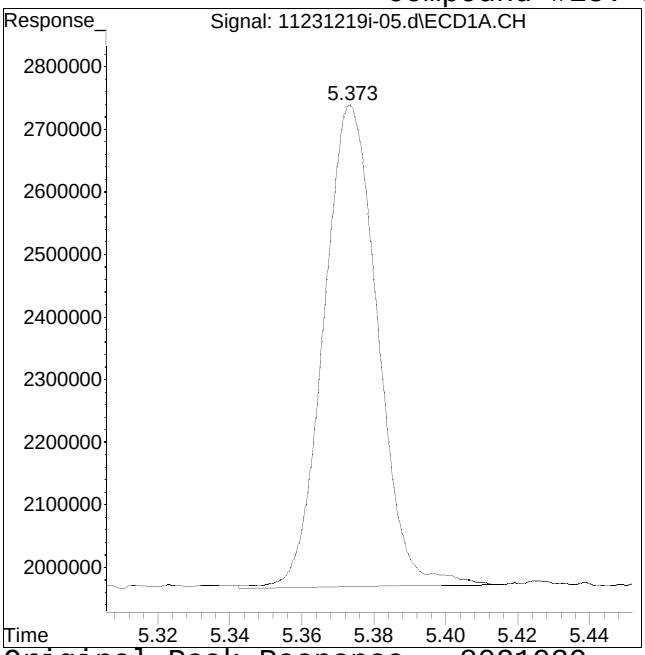
Manual Peak Response = 6856273 M4

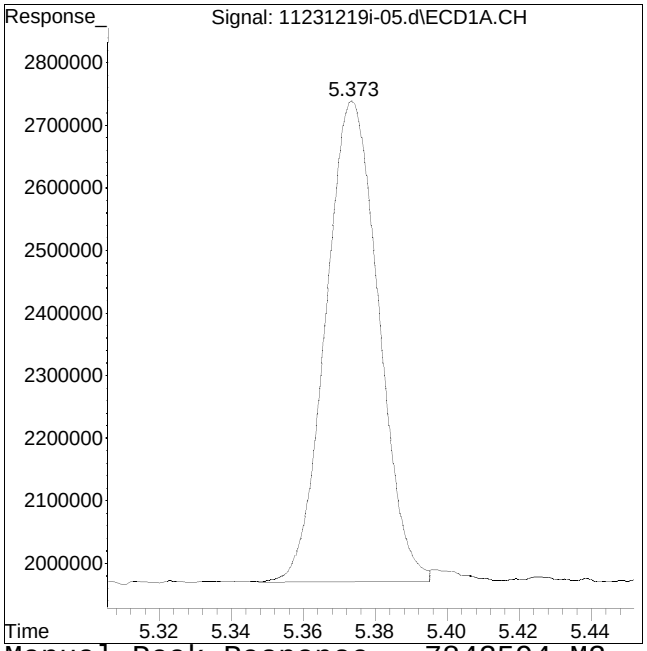
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-05.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 2:12 pm Instrument : Pest 11
Sample : il3pest,42e,,pp 11404 L0.0Quant Date : 12/20/2023 6:06 pm

Compound #25: Endosulfan Sulfate



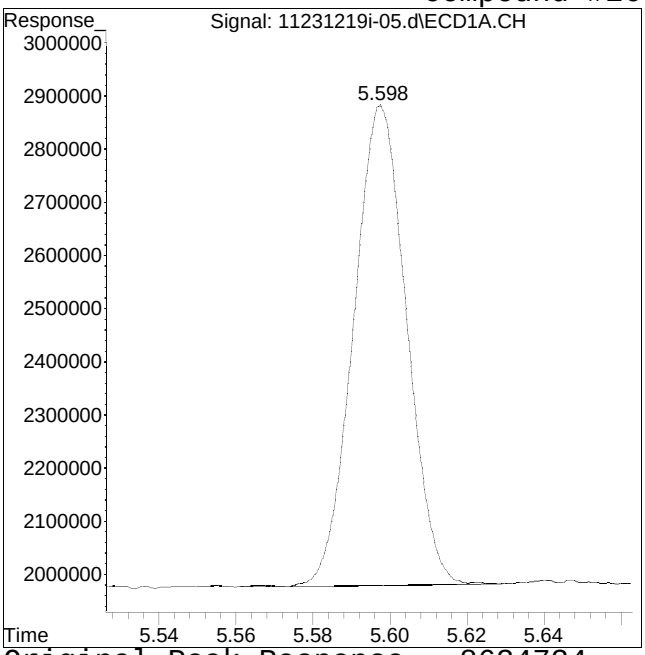


Original Peak Response = 8021029 Manual Peak Response = 7843594 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

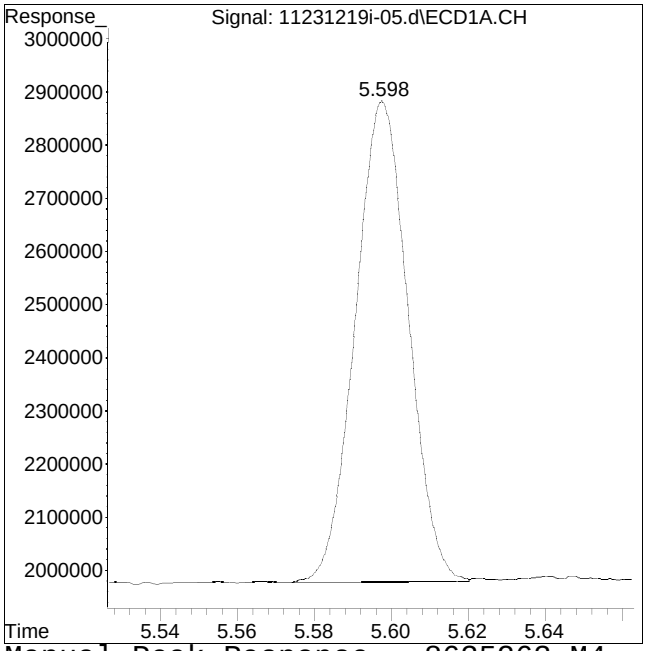
Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-05.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 2:12 pm Instrument : Pest 11
Sample : il3pest,42e,,pp 11404 L0.0Quant Date : 12/20/2023 6:06 pm

Compound #26: Endrin Ketone



Original Peak Response = 8634734



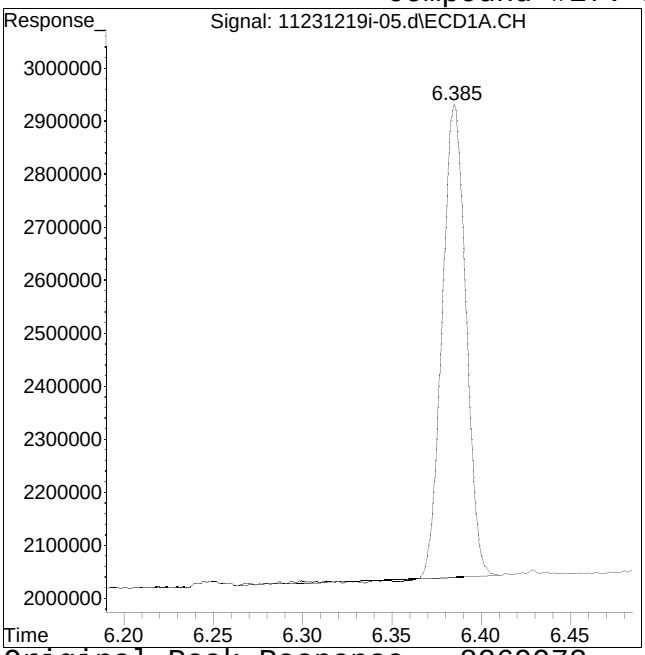
Manual Peak Response = 8635263 M4

M4 = Poor automated baseline construction.

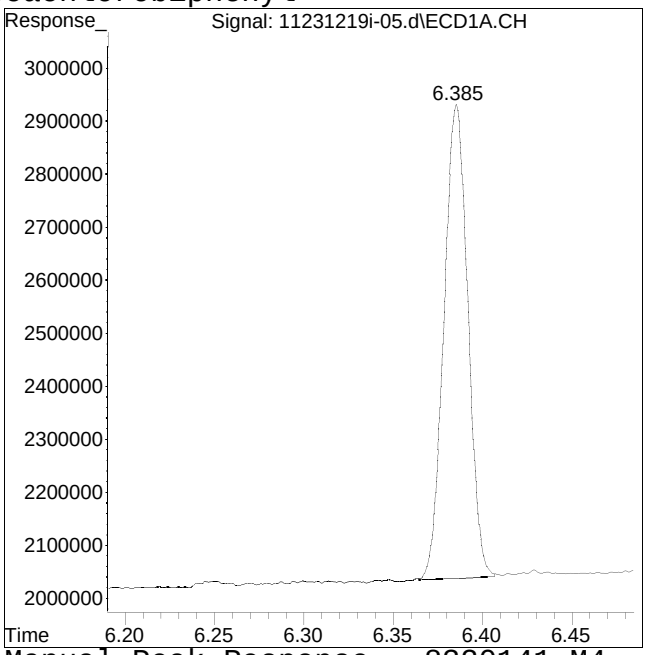
Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-05.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 2:12 pm Instrument : Pest 11
Sample : il3pest,42e,,pp 11404 L0.0Quant Date : 12/20/2023 6:06 pm

Compound #27: Decachlorobiphenyl



Original Peak Response = 8269973



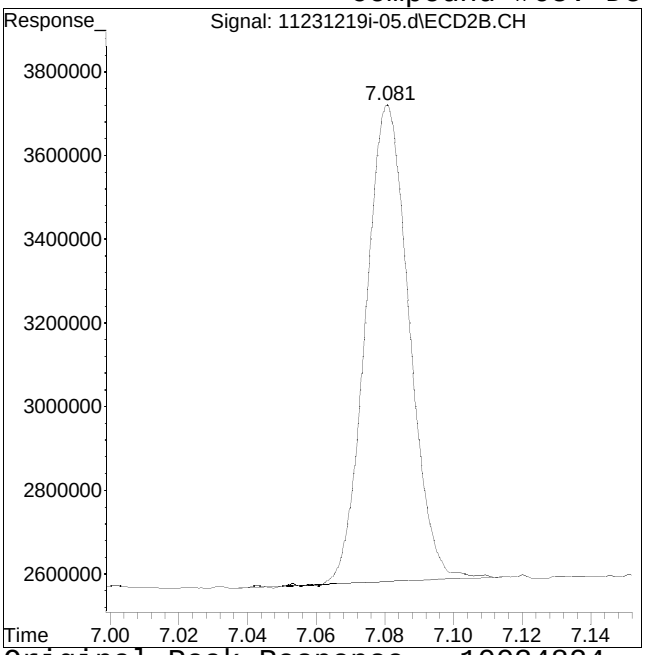
Manual Peak Response = 8320141 M4

M4 = Poor automated baseline construction.

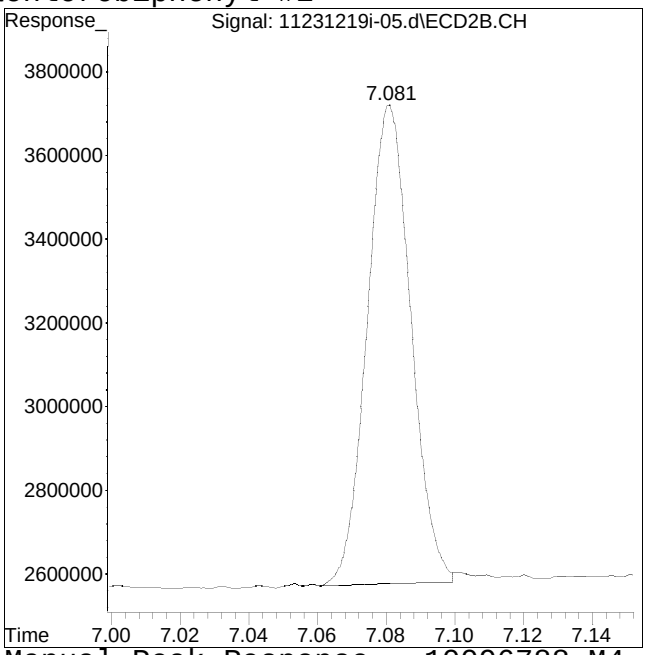
Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-05.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 2:12 pm Instrument : Pest 11
Sample : il3pest,42e,,pp 11404 L0.0Quant Date : 12/20/2023 6:06 pm

Compound #65: Decachlorobiphenyl #2



Original Peak Response = 10034824



Manual Peak Response = 10096788 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2023\231219ICAL\
Data File : 11231219i-06.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 19 Dec 2023 2:23 pm
Operator : PEST11:ejl
Sample : il4pest,42e,,pp 11403 L0.003
Misc : WG1866910,ical (Sig #1); ical (Sig #2)
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 20 18:05:57 2023
Quant Method : I:\PEST\Pest11\2023\231219ICAL\pest11_12_19_23_ugL_ICAL.M
Quant Title : pest
QLast Update : Wed Dec 20 17:57:23 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	1.375	1.480	85836214	119.4E6	25.000M4	25.000M4
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.728	1.985	10293928	15311305	3.205	3.360
	Spiked Amount 50.000	Range 30 - 150		Recovery =		6.41%#	6.72%#
27) s	Decachlorobi	6.385	7.080	12491223	14848236	3.737M4	3.763M3
	Spiked Amount 50.000	Range 30 - 150		Recovery =		7.47%#	7.53%#
	Target Compounds						
3) t	Hexachlorobe	1.949	2.326	12345493	17957632	3.396M4	3.562M4
4) t	alpha-BHC	2.050	2.427	12794946	19343167	2.675M4	2.877M4
5) t	gamma-BHC (l	2.260	2.730	12681936	18902209	2.826M3	3.055
6) t	beta-BHC	2.317	2.797	6838101	10244131	3.420M4	3.669M4
7) t	delta-BHC	2.450	3.079	12463474	18556943	2.730	2.971
8) t	Heptachlor	2.618	3.150	13763283	20595075	3.107M3	3.321M4
9) t	Aldrin	2.869	3.486	11935043	18069570	2.903M3	3.145M4
10) t	Alachlor	2.992	3.358	2273297	3208247	3.645M4	3.741M3
11) t	Chlorpyrifos	3.086	3.728	7887712	12766902	3.726M4	3.967
12) t	Heptachlor E	3.429	4.128	12763620	19013915	3.188M4	3.414M4
13) t	gamma-Chlord	3.556	4.346	11475593	17043062	3.152M4	3.386
14) t	alpha-Chlord	3.693	4.505	13210616	18901426	3.180M4	3.406

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2023\231219ICAL\
Data File : 11231219i-06.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 19 Dec 2023 2:23 pm
Operator : PEST11:ejl
Sample : il4pest,42e,,pp 11403 L0.003
Misc : WG1866910,ical (Sig #1); ical (Sig #2)
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 20 18:05:57 2023
Quant Method : I:\PEST\Pest11\2023\231219ICAL\pest11_12_19_23_ugL_ICAL.M
Quant Title : pest
QLast Update : Wed Dec 20 17:57:23 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
15)	t	4,4'-DDE	3.790	4.686	11185069	16528797	2.838M4	3.112M4
16)	t	Endosulfan I	3.834	4.564	12154040	17442107	3.176M4	3.403M4
17)	t	Dieldrin	4.099	4.841	11938519	16671600	3.023M4	3.189M4
18)	t	Endrin	4.351	5.129	12132439	16738246	2.989M4	3.189
19)	t	4,4'-DDD	4.453	5.237	9390587	13170390	2.895M4	3.125M4
20)	t	Endosulfan I	4.583	5.319	11748099	15845366	3.216M4	3.432M4
21)	t	4,4'-DDT	4.737	5.507	11342818	15654765	2.989M4	3.255M4
22)	t	Endrin Aldeh	4.989	5.606	9837947	13455380	3.212M4	3.440M3
23)	t	Methoxychlor	5.211	6.056	7584715	9749717	3.498M4	3.689
24)	t	Mirex	5.273	6.205	12459332	15301808	3.653M4	3.897
25)	t	Endosulfan S	5.373	5.829	11853500	15667000	3.353M3	3.511M4
26)	t	Endrin Keton	5.598	6.236	13158769	16509437	3.254M4	3.385M4
29)	l1	chlordane-1	0.000	0.000	0	0	N.D.	N.D.
30)	l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31)	l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32)	l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum	chlordane-1			0	0	N.D.	N.D.
Average		chlordane-1					0.000	0.000
34)	l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
35)	l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d
36)	l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37)	l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum	toxaphene-2			0	0	N.D.	N.D.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2023\231219ICAL\
Data File : 11231219i-06.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 19 Dec 2023 2:23 pm
Operator : PEST11:ejl
Sample : il4pest,42e,,pp 11403 L0.003
Misc : WG1866910,ical (Sig #1); ical (Sig #2)
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 20 18:05:57 2023
Quant Method : I:\PEST\Pest11\2023\231219ICAL\pest11_12_19_23_ugL_ICAL.M
Quant Title : pest
QLast Update : Wed Dec 20 17:57:23 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Average toxaphene-2					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument						
Sum toxaphene-2			0	0	N.D.	N.D.
Average toxaphene-2					0.000	0.000

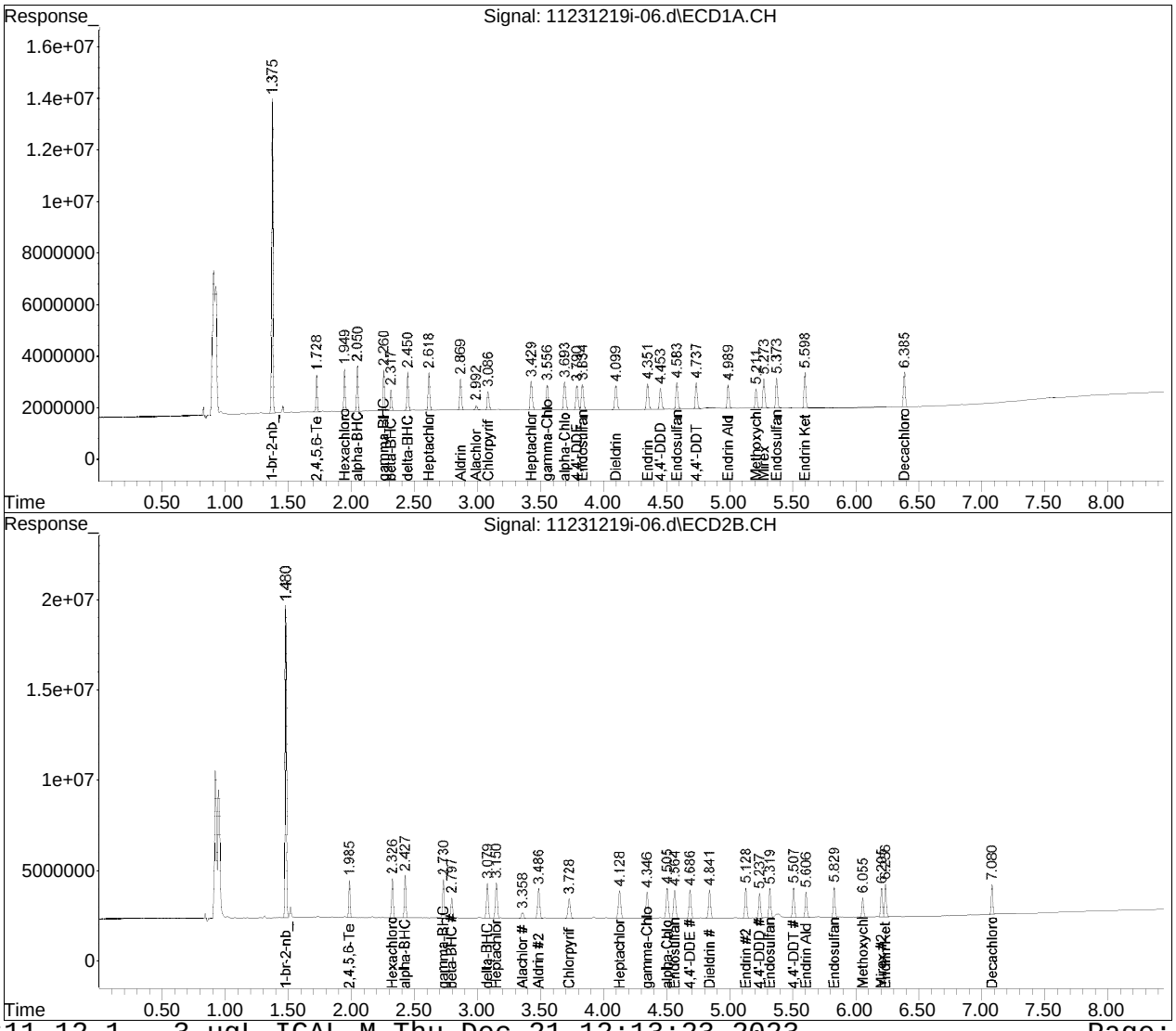
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest11\2023\231219ICAL\
Data File : 11231219i-06.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 19 Dec 2023 2:23 pm
Operator : PEST11:ejl
Sample : il4pest,42e,,pp 11403 L0.003
Misc : WG1866910,ical (Sig #1); ical (Sig #2)
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 20 18:05:57 2023
Quant Method : I:\PEST\Pest11\2023\231219ICAL\pest11_12_19_23_ugL_ICAL.M
Quant Title : pest
QLast Update : Wed Dec 20 17:57:23 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

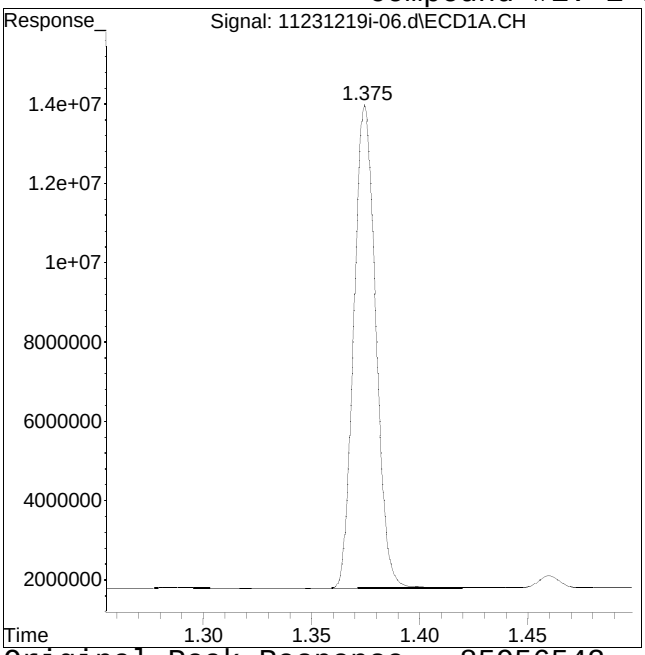
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

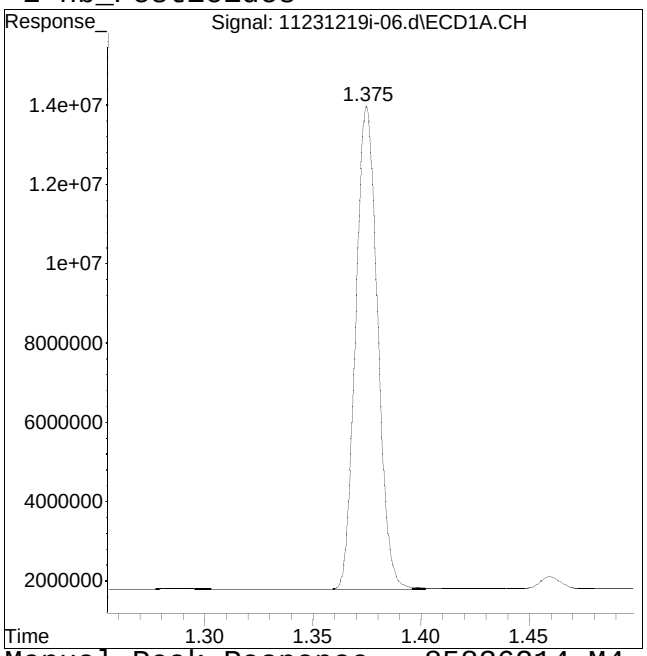


Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-06.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 2:23 pm Instrument : Pest 11
Sample : il4pest,42e,,pp 11403 L0.0Quant Date : 12/20/2023 5:58 pm

Compound #1: 1-br-2-nb_Pesticides



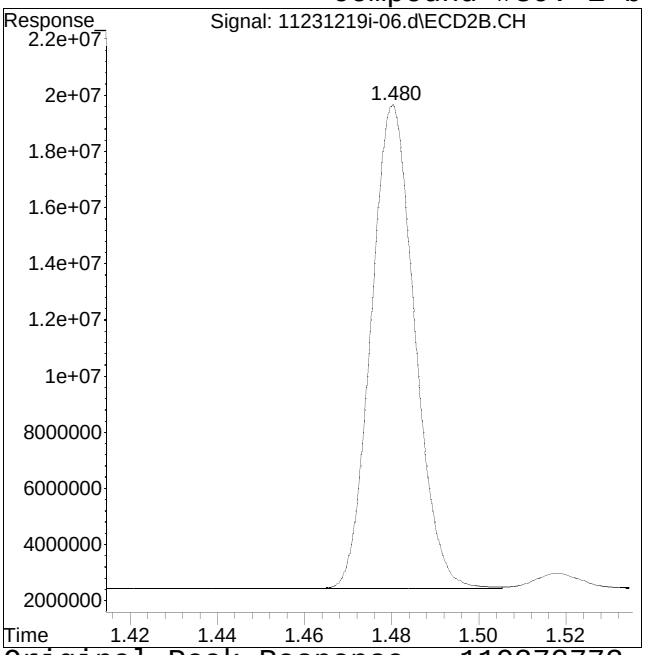


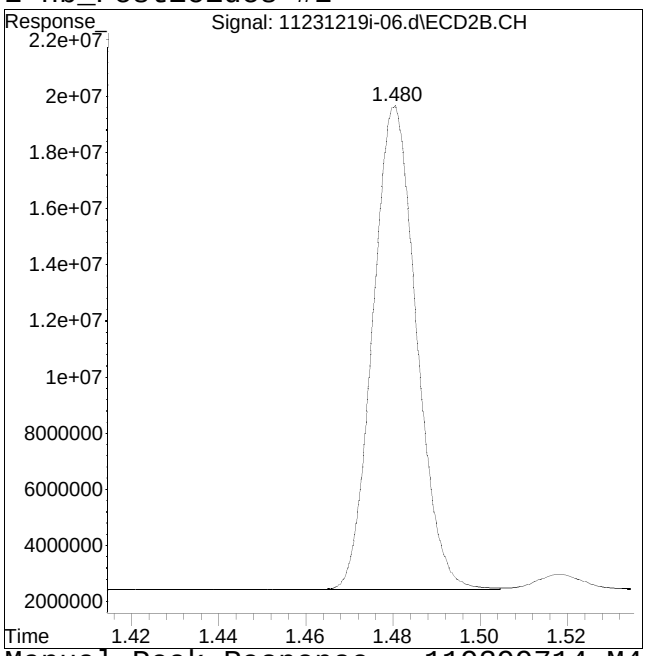
Original Peak Response = 85956542 Manual Peak Response = 85836214 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-06.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 2:23 pm Instrument : Pest 11
Sample : il4pest,42e,,pp 11403 L0.0Quant Date : 12/20/2023 5:58 pm

Compound #39: 1-br-2-nb_Pesticides #2



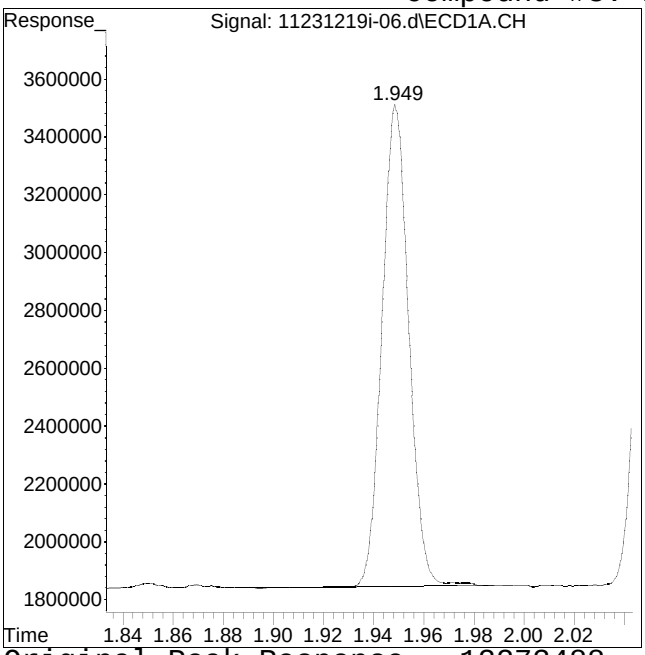


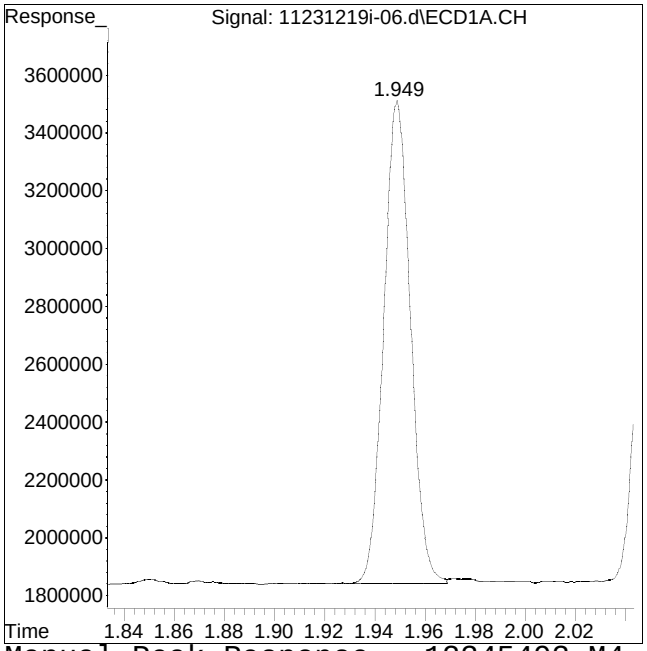
Original Peak Response = 119373773 Manual Peak Response = 119399714 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-06.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 2:23 pm Instrument : Pest 11
Sample : il4pest,42e,,pp 11403 L0.0Quant Date : 12/20/2023 5:58 pm

Compound #3: Hexachlorobenzene



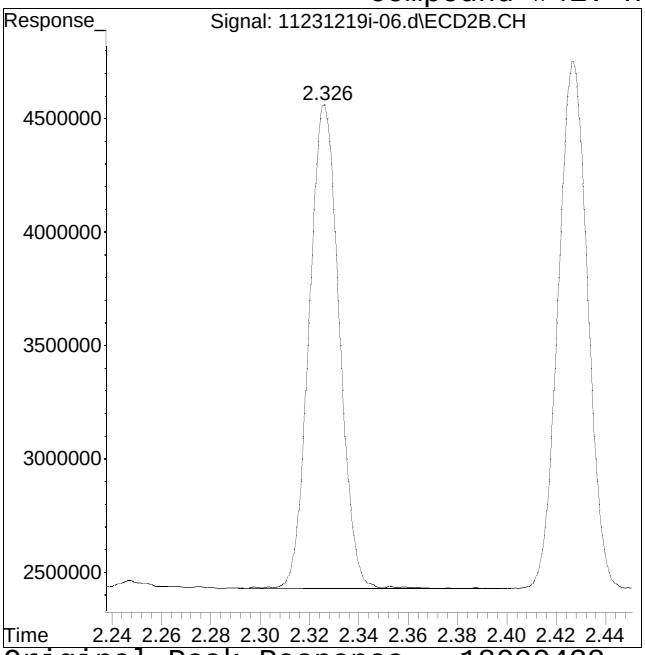


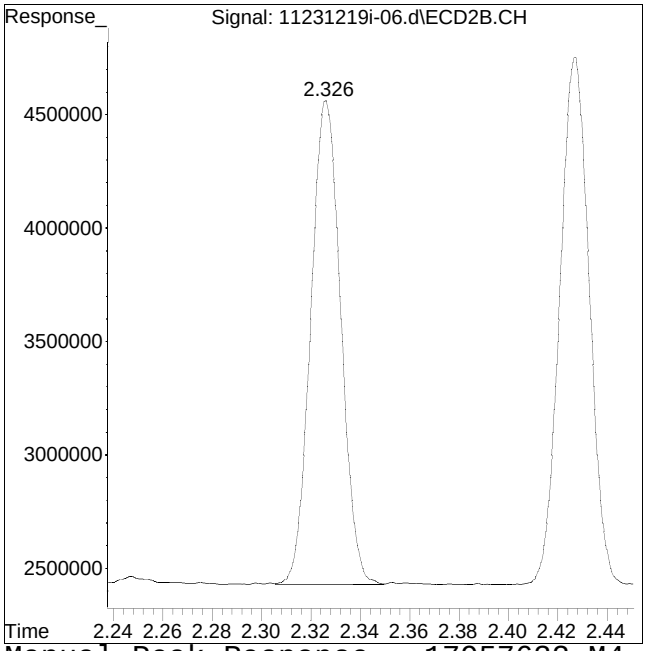
Original Peak Response = 12273488 Manual Peak Response = 12345493 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-06.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 2:23 pm Instrument : Pest 11
Sample : il4pest,42e,,pp 11403 L0.0Quant Date : 12/20/2023 5:58 pm

Compound #41: Hexachlorobenzene #2



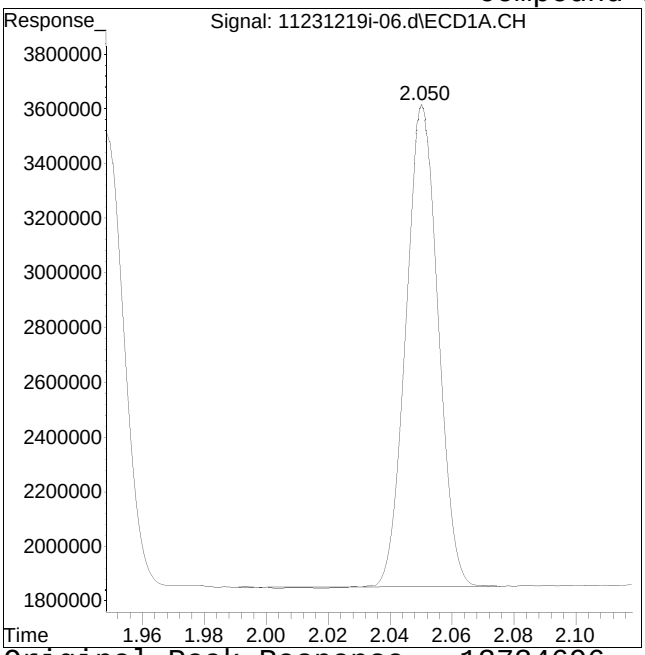


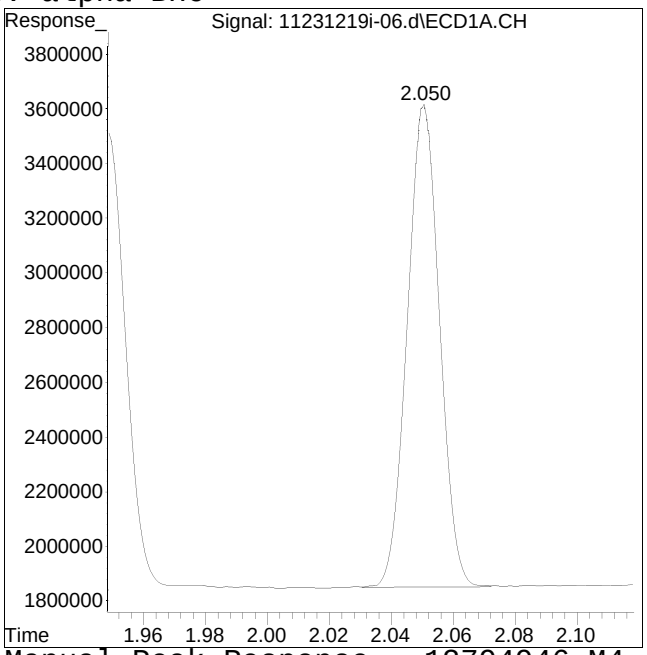
Original Peak Response = 18090438 Manual Peak Response = 17957632 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-06.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 2:23 pm Instrument : Pest 11
Sample : il4pest,42e,,pp 11403 L0.0Quant Date : 12/20/2023 5:58 pm

Compound #4: alpha-BHC



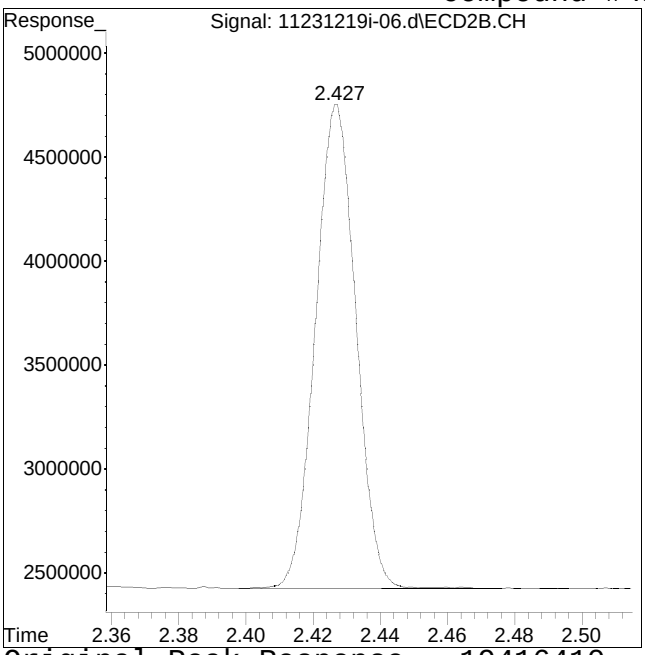


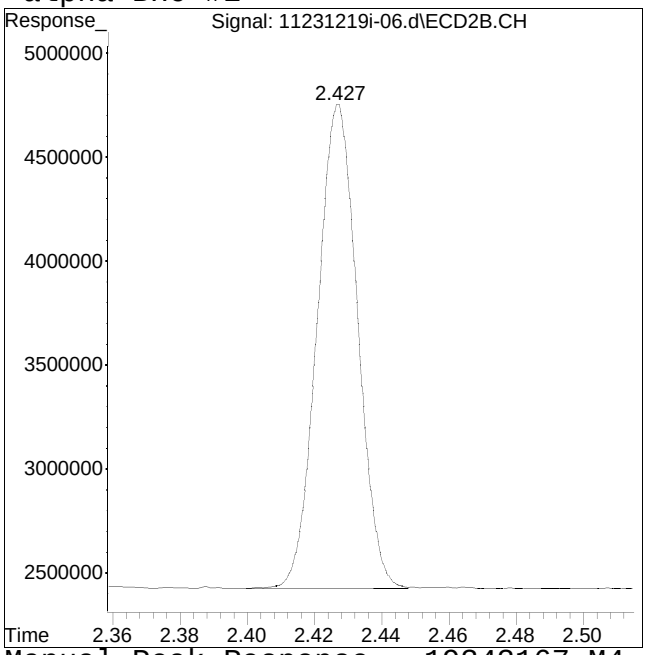
Original Peak Response = 12734696 Manual Peak Response = 12794946 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-06.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 2:23 pm Instrument : Pest 11
Sample : il4pest,42e,,pp 11403 L0.0Quant Date : 12/20/2023 5:58 pm

Compound #42: alpha-BHC #2



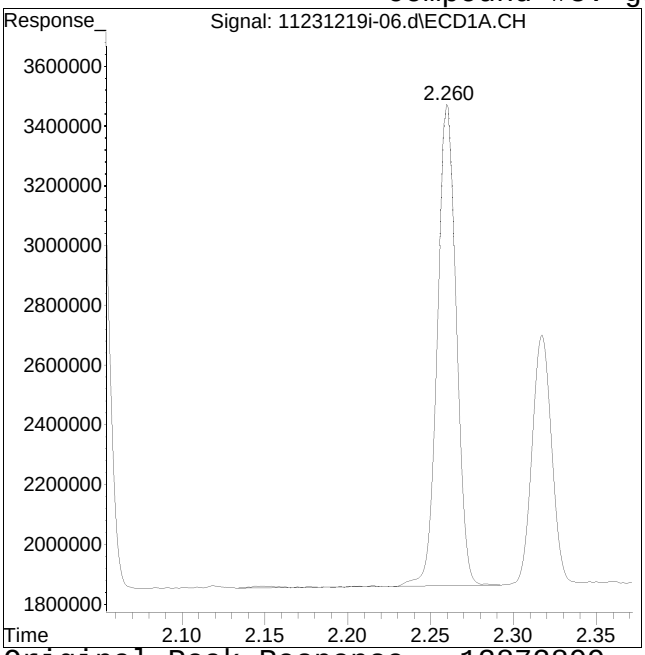


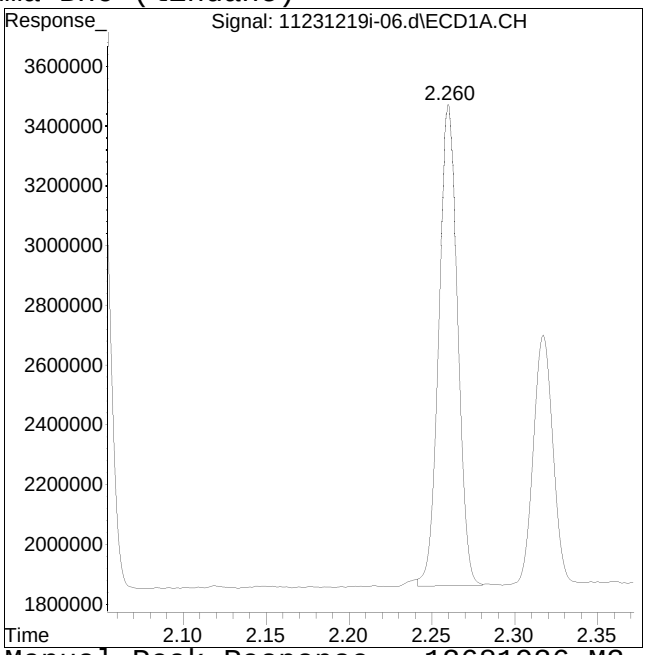
Original Peak Response = 19416410 Manual Peak Response = 19343167 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-06.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 2:23 pm Instrument : Pest 11
Sample : il4pest,42e,,pp 11403 L0.0Quant Date : 12/20/2023 5:58 pm

Compound #5: gamma-BHC (lindane)



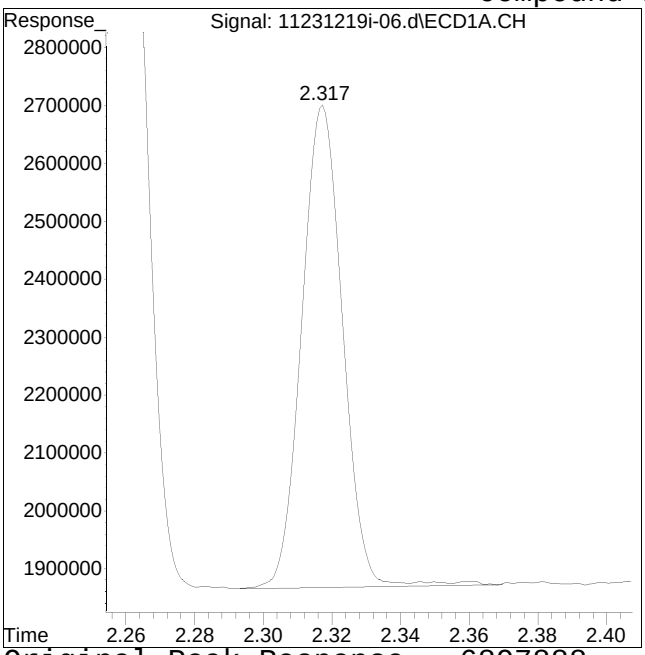


Original Peak Response = 12872899 Manual Peak Response = 12681936 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

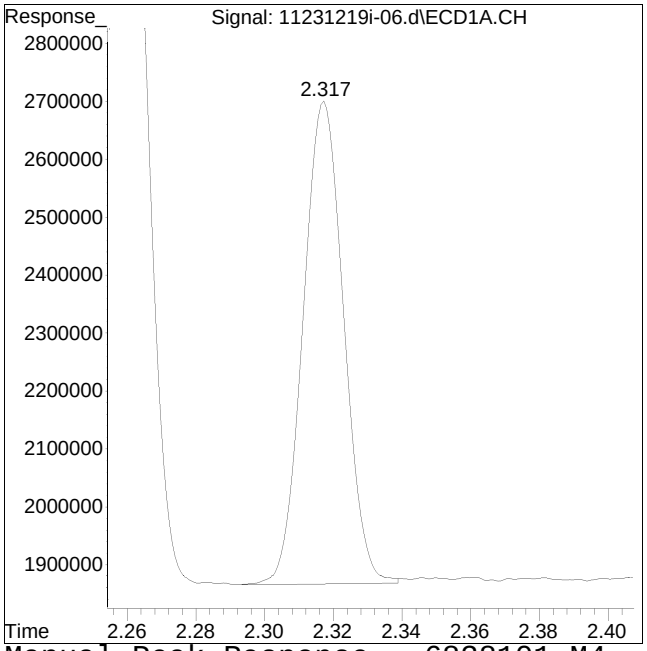
Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-06.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 2:23 pm Instrument : Pest 11
Sample : il4pest,42e,,pp 11403 L0.0Quant Date : 12/20/2023 5:58 pm

Compound #6: beta-BHC



Original Peak Response = 6897888



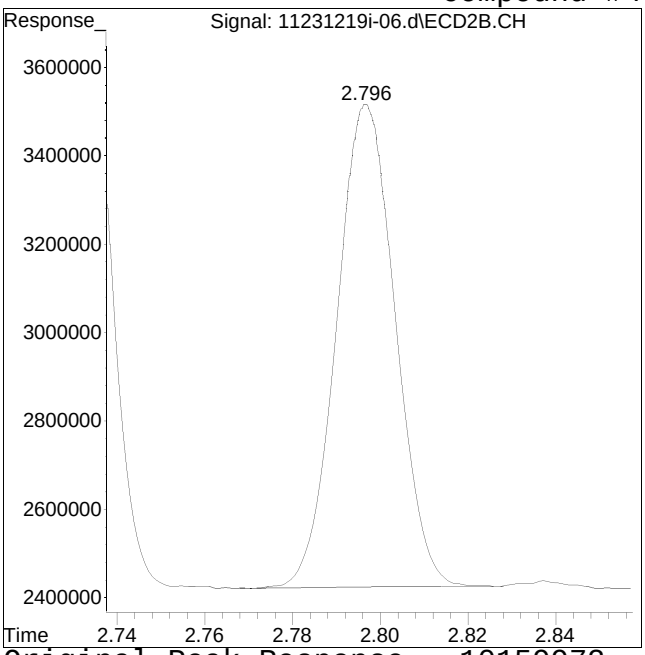
Manual Peak Response = 6838101 M4

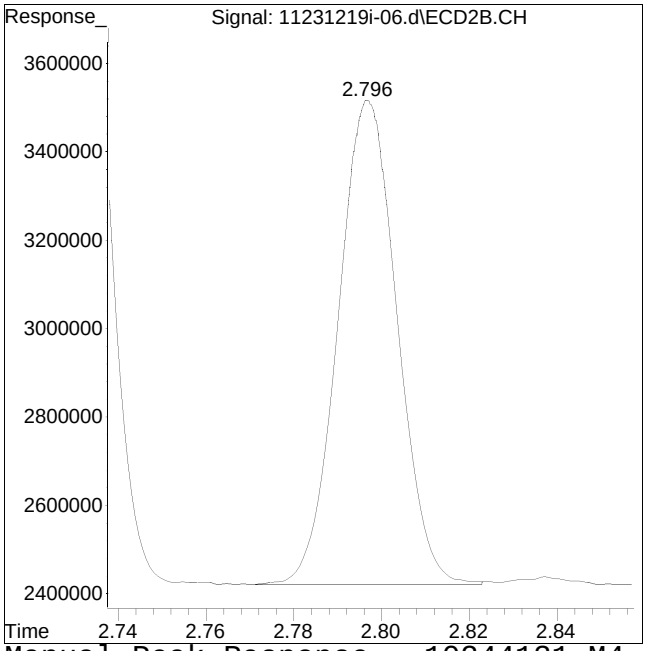
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-06.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 2:23 pm Instrument : Pest 11
Sample : il4pest,42e,,pp 11403 L0.0Quant Date : 12/20/2023 5:58 pm

Compound #44: beta-BHC #2



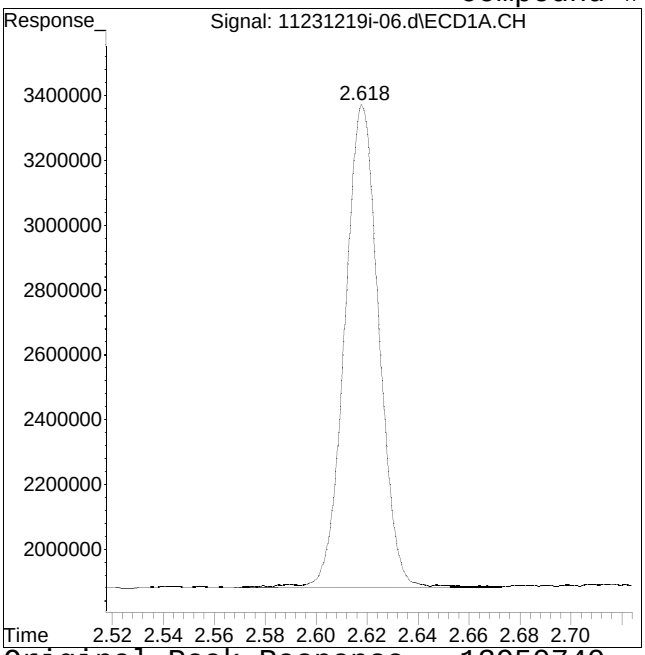


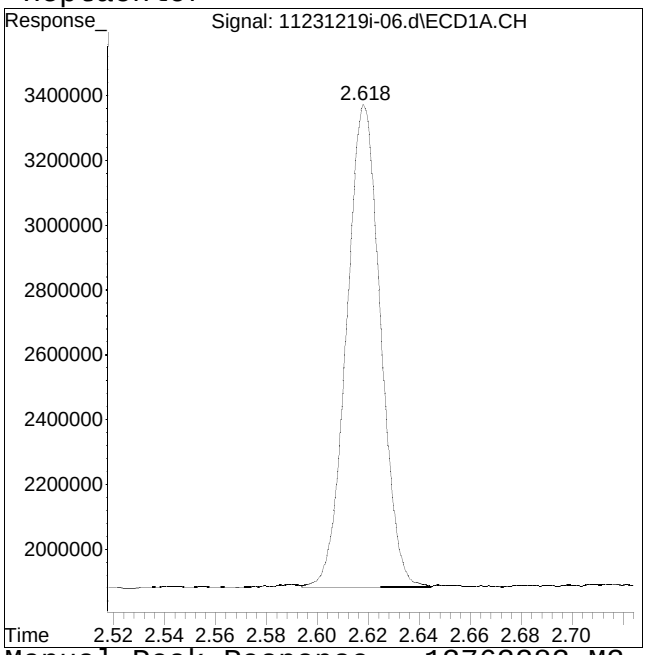
Original Peak Response = 10159972 Manual Peak Response = 10244131 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-06.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 2:23 pm Instrument : Pest 11
Sample : il4pest,42e,,pp 11403 L0.0Quant Date : 12/20/2023 5:58 pm

Compound #8: Heptachlor



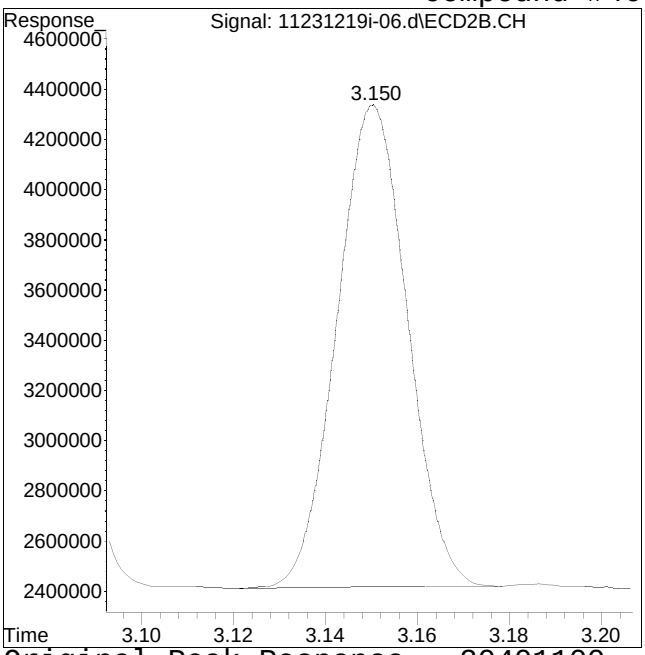


Original Peak Response = 13950740 Manual Peak Response = 13763283 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

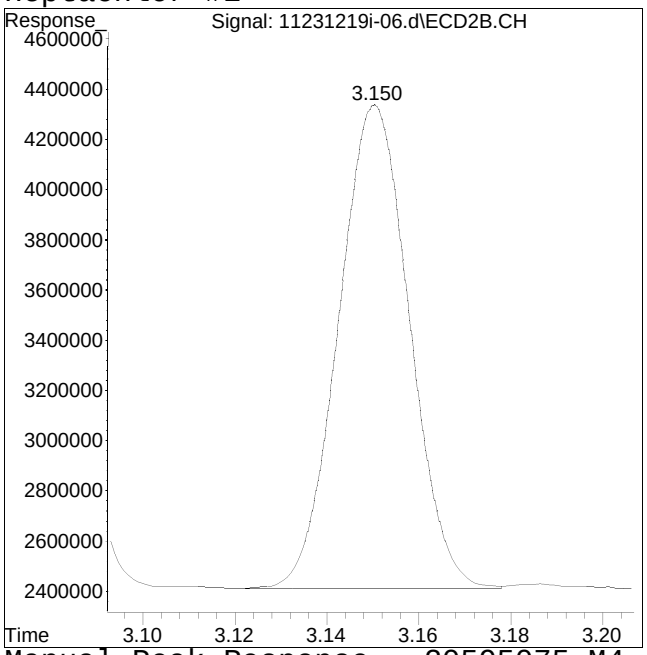
Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-06.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 2:23 pm Instrument : Pest 11
Sample : il4pest,42e,,pp 11403 L0.0Quant Date : 12/20/2023 5:58 pm

Compound #46: Heptachlor #2



Original Peak Response = 20401100



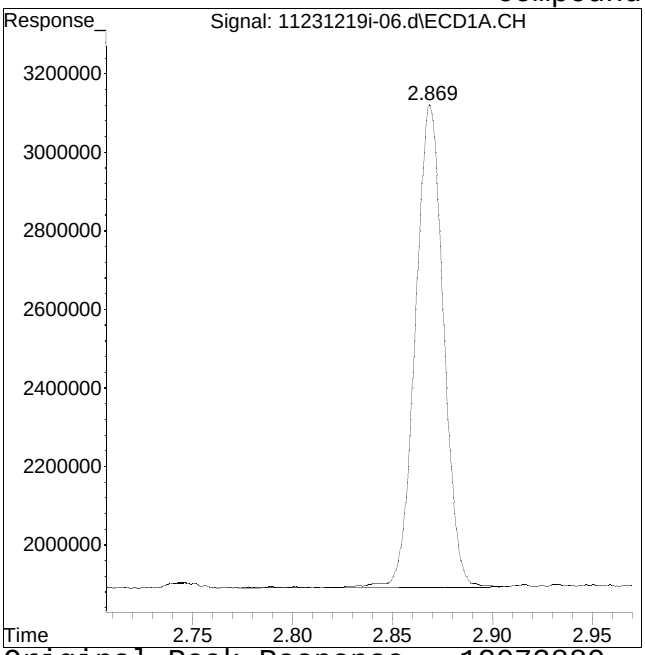
Manual Peak Response = 20595075 M4

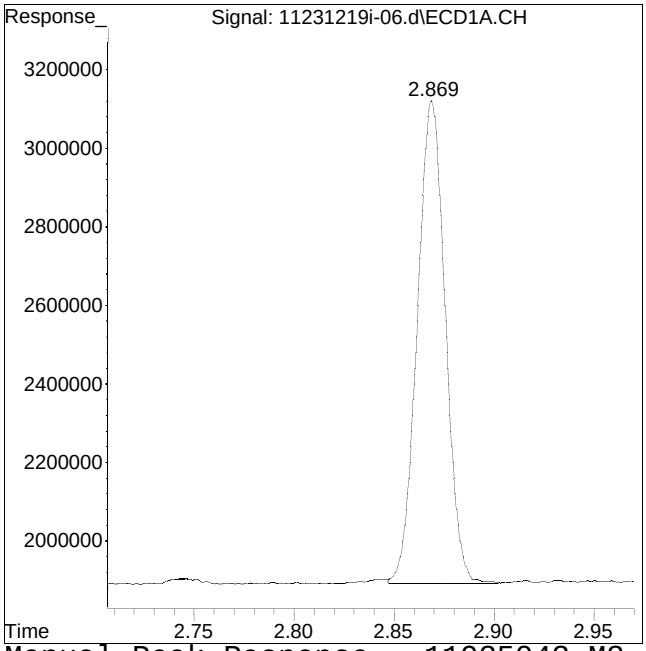
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-06.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 2:23 pm Instrument : Pest 11
Sample : il4pest,42e,,pp 11403 L0.0Quant Date : 12/20/2023 5:58 pm

Compound #9: Aldrin



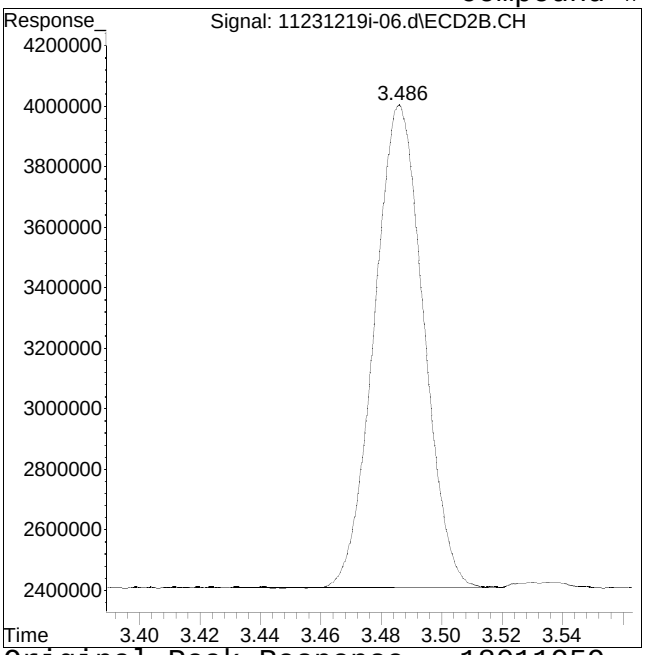


Original Peak Response = 12073880 Manual Peak Response = 11935043 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

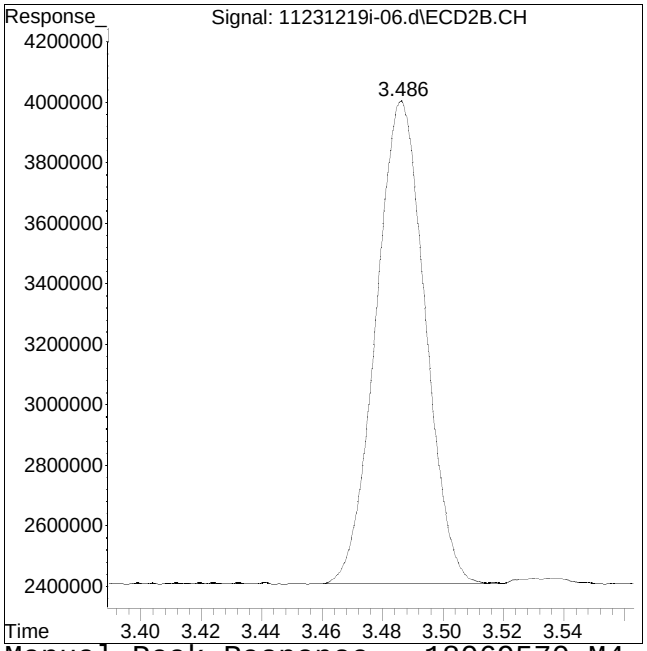
Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-06.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 2:23 pm Instrument : Pest 11
Sample : il4pest,42e,,pp 11403 L0.0Quant Date : 12/20/2023 5:58 pm

Compound #47: Aldrin #2



Original Peak Response = 18011959



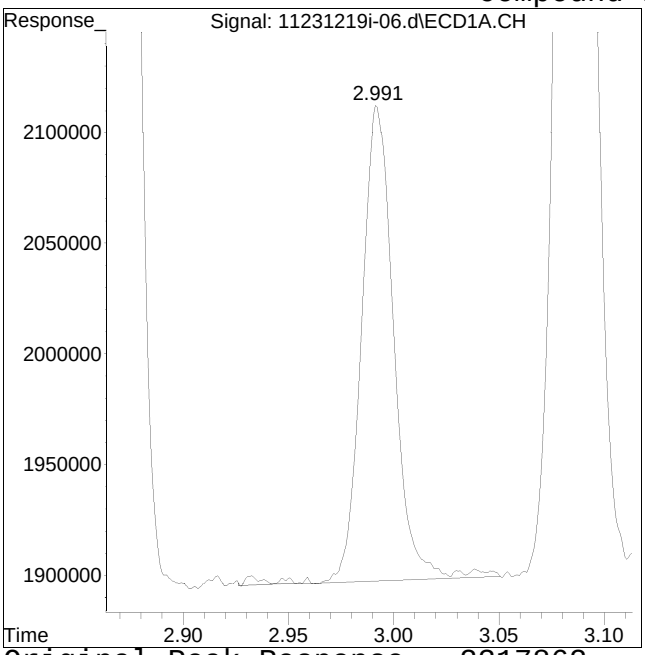
Manual Peak Response = 18069570 M4

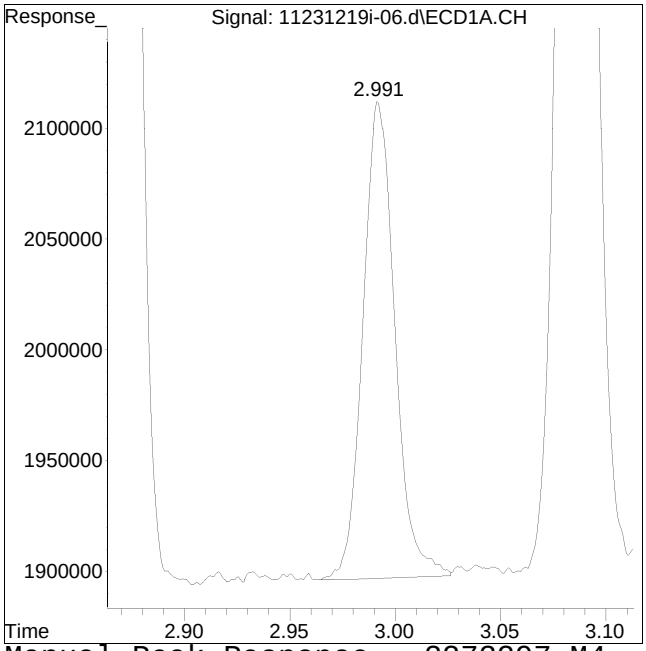
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-06.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 2:23 pm Instrument : Pest 11
Sample : il4pest,42e,,pp 11403 L0.0Quant Date : 12/20/2023 5:58 pm

Compound #10: Alachlor



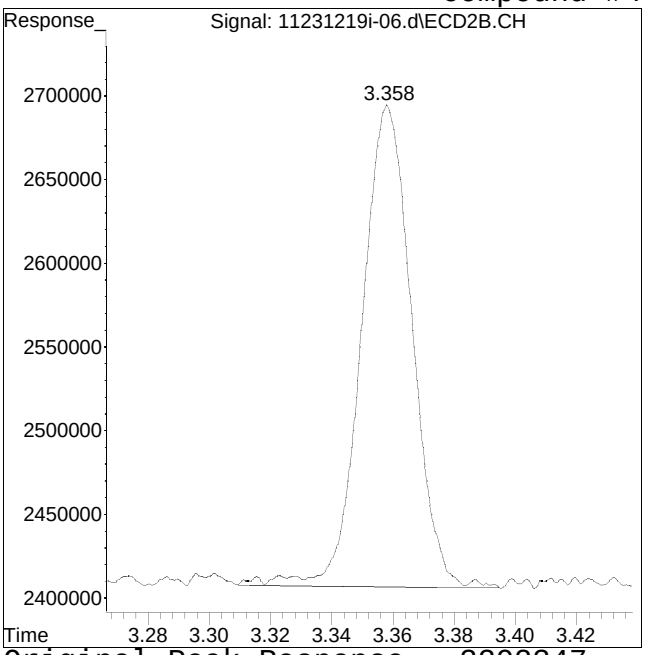


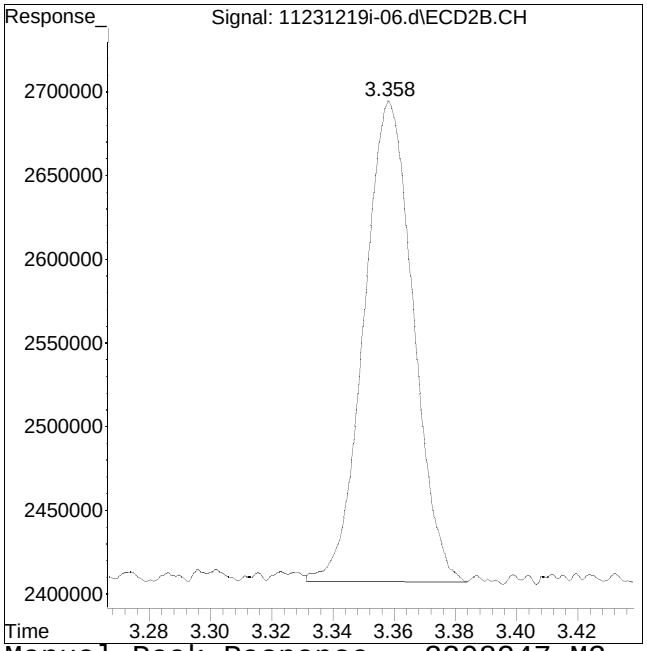
Original Peak Response = 2317862 Manual Peak Response = 2273297 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-06.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 2:23 pm Instrument : Pest 11
Sample : il4pest,42e,,pp 11403 L0.0Quant Date : 12/20/2023 5:58 pm

Compound #48: Alachlor #2



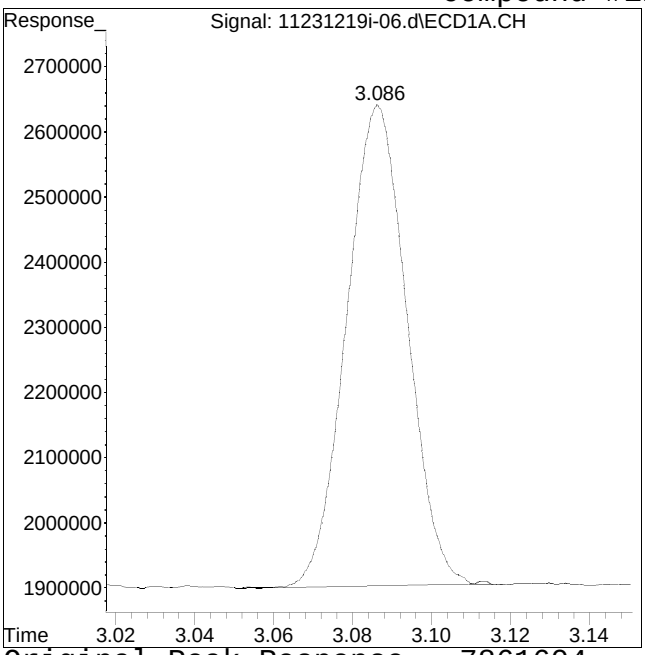


Original Peak Response = 3292347 Manual Peak Response = 3208247 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

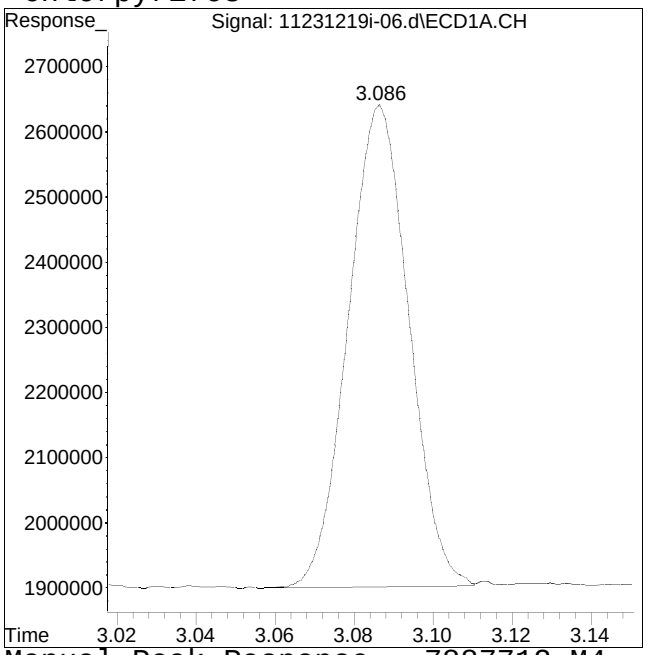
Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-06.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 2:23 pm Instrument : Pest 11
Sample : il4pest,42e,,pp 11403 L0.0Quant Date : 12/20/2023 5:58 pm

Compound #11: Chlorpyrifos



Original Peak Response = 7861604



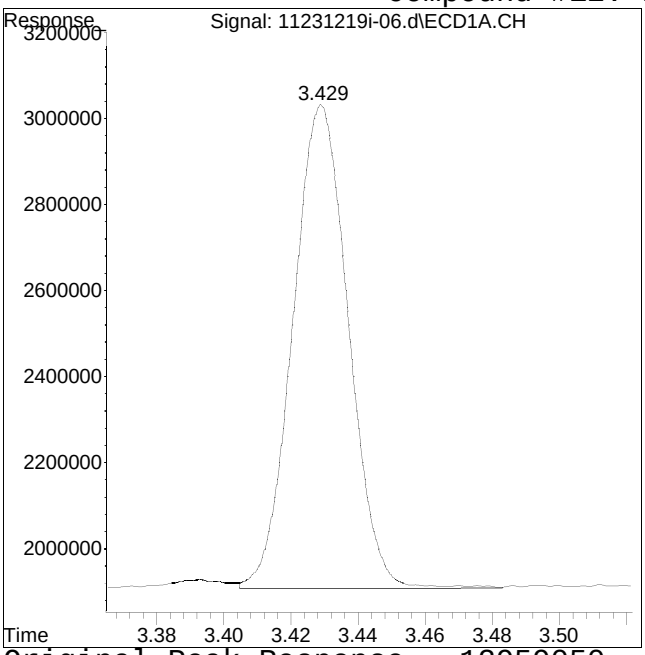
Manual Peak Response = 7887712 M4

M4 = Poor automated baseline construction.

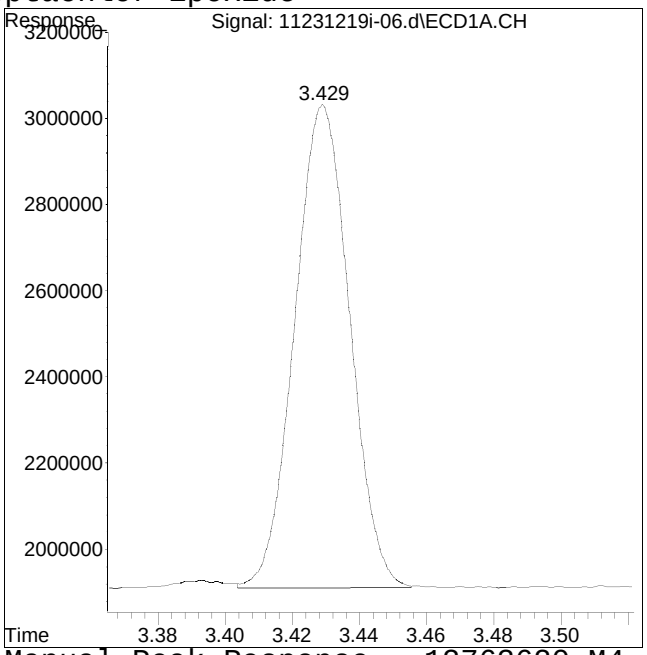
Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-06.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 2:23 pm Instrument : Pest 11
Sample : il4pest,42e,,pp 11403 L0.0Quant Date : 12/20/2023 5:58 pm

Compound #12: Heptachlor Epoxide



Original Peak Response = 12959050



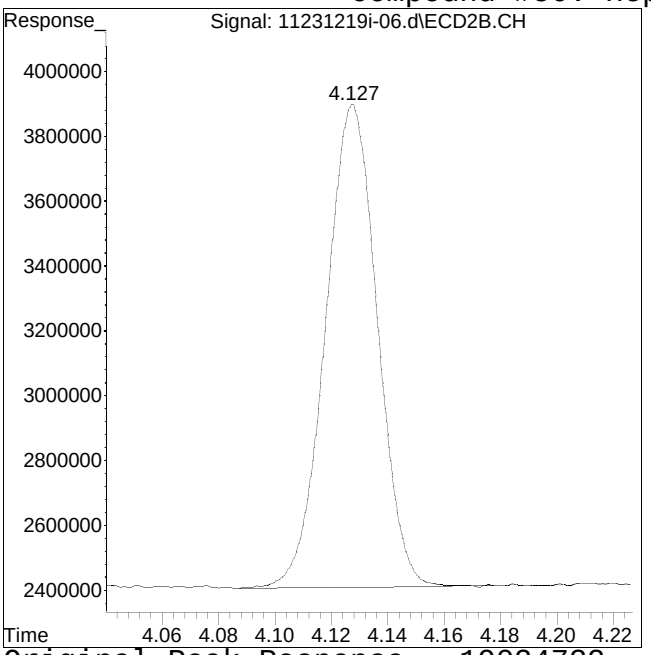
Manual Peak Response = 12763620 M4

M4 = Poor automated baseline construction.

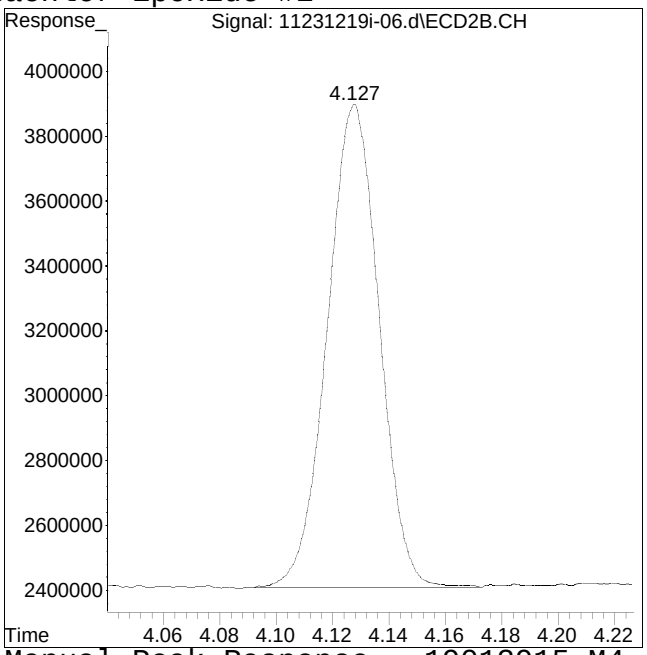
Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-06.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 2:23 pm Instrument : Pest 11
Sample : il4pest,42e,,pp 11403 L0.0Quant Date : 12/20/2023 5:58 pm

Compound #50: Heptachlor Epoxide #2



Original Peak Response = 19024732



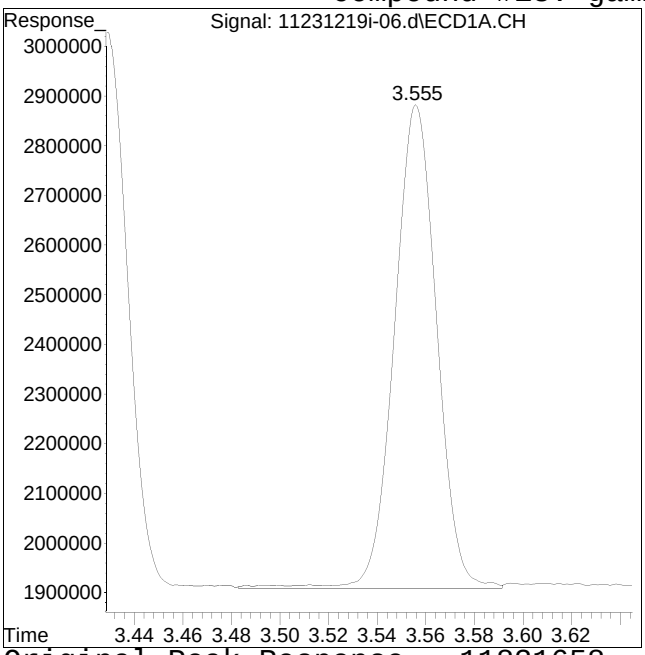
Manual Peak Response = 19013915 M4

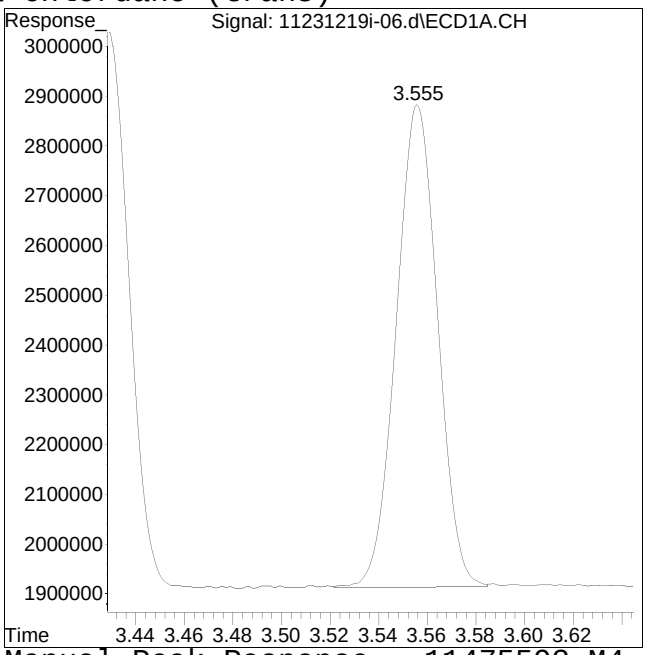
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-06.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 2:23 pm Instrument : Pest 11
Sample : il4pest,42e,,pp 11403 L0.0Quant Date : 12/20/2023 5:58 pm

Compound #13: gamma-Chlordane (trans)



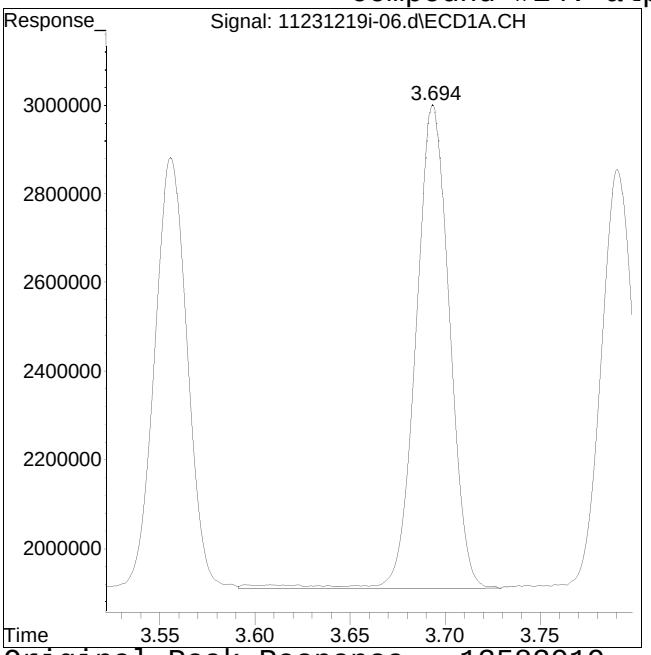


Original Peak Response = 11831658 Manual Peak Response = 11475593 M4
M4 = Poor automated baseline construction.

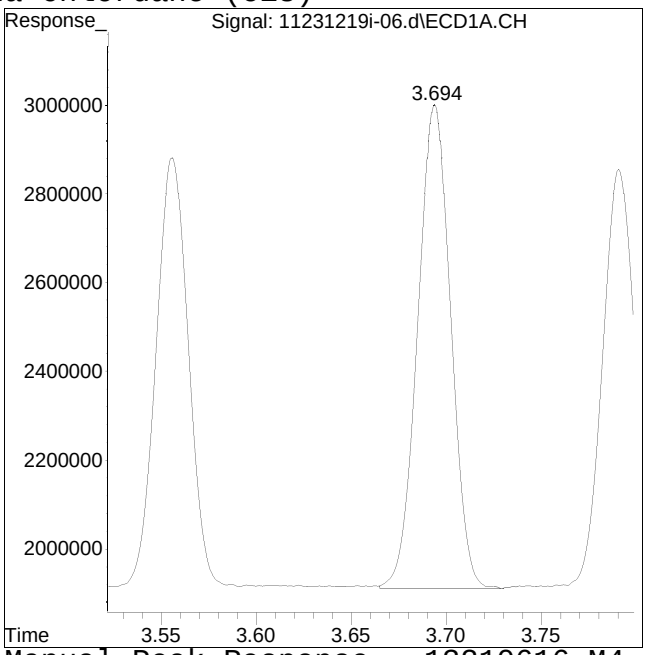
Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-06.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 2:23 pm Instrument : Pest 11
Sample : il4pest,42e,,pp 11403 L0.0Quant Date : 12/20/2023 5:58 pm

Compound #14: alpha-Chlordane (cis)



Original Peak Response = 13583919



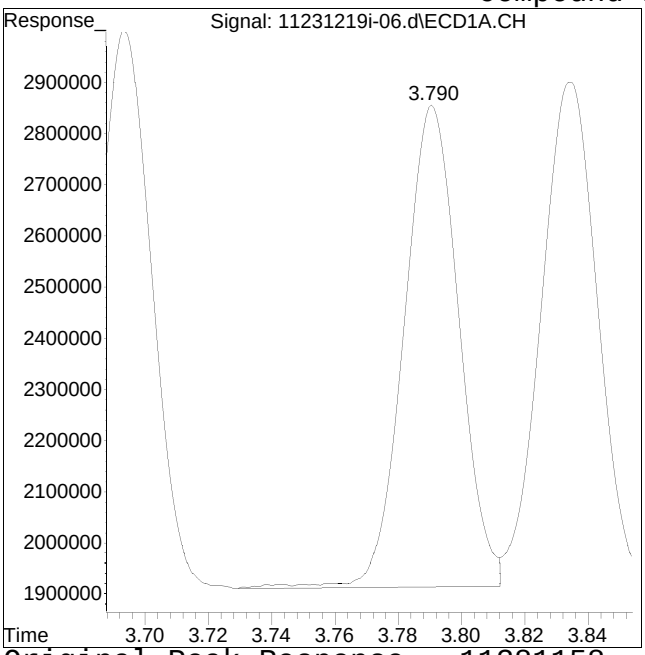
Manual Peak Response = 13210616 M4

M4 = Poor automated baseline construction.

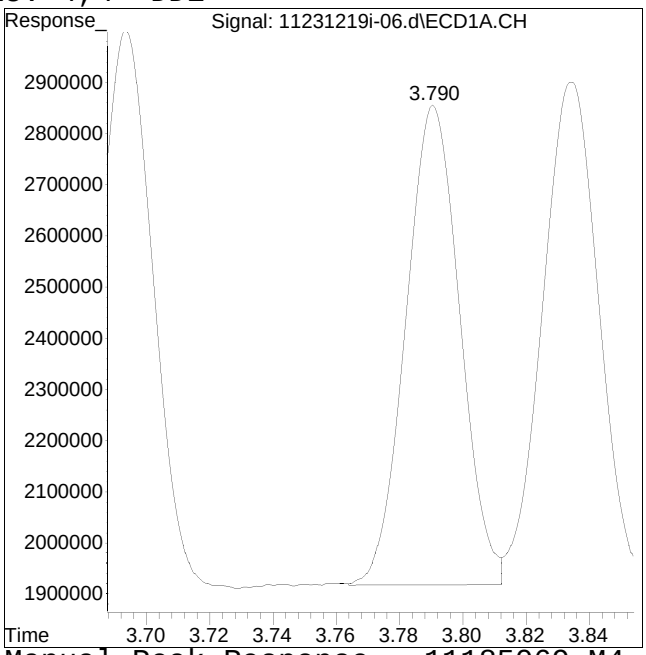
Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-06.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 2:23 pm Instrument : Pest 11
Sample : il4pest,42e,,pp 11403 L0.0Quant Date : 12/20/2023 5:58 pm

Compound #15: 4,4'-DDE



Original Peak Response = 11381158



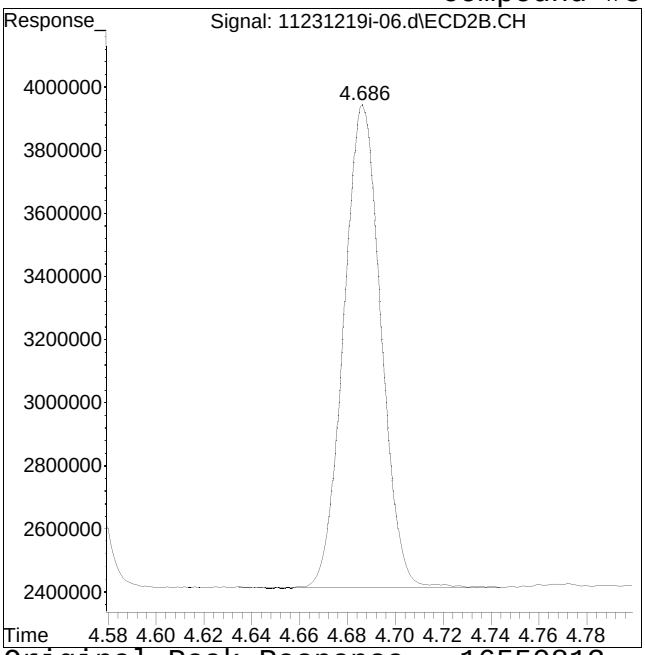
Manual Peak Response = 11185069 M4

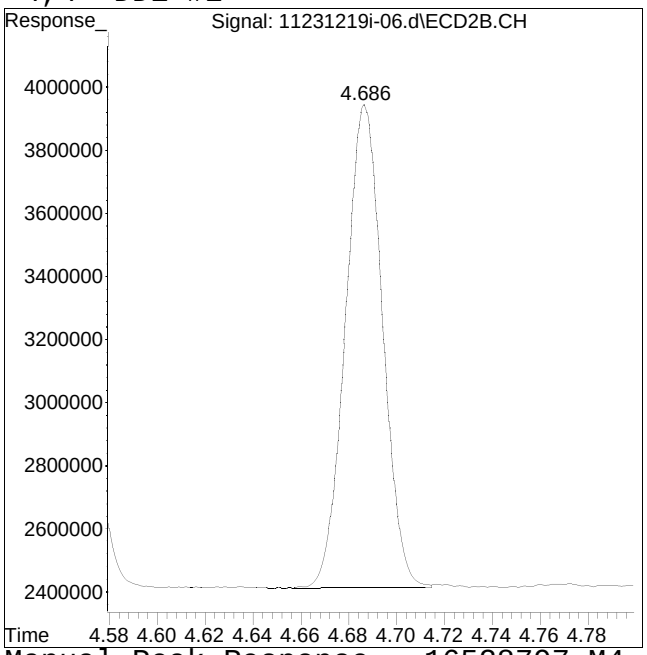
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-06.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 2:23 pm Instrument : Pest 11
Sample : il4pest,42e,,pp 11403 L0.0Quant Date : 12/20/2023 5:58 pm

Compound #53: 4,4'-DDE #2



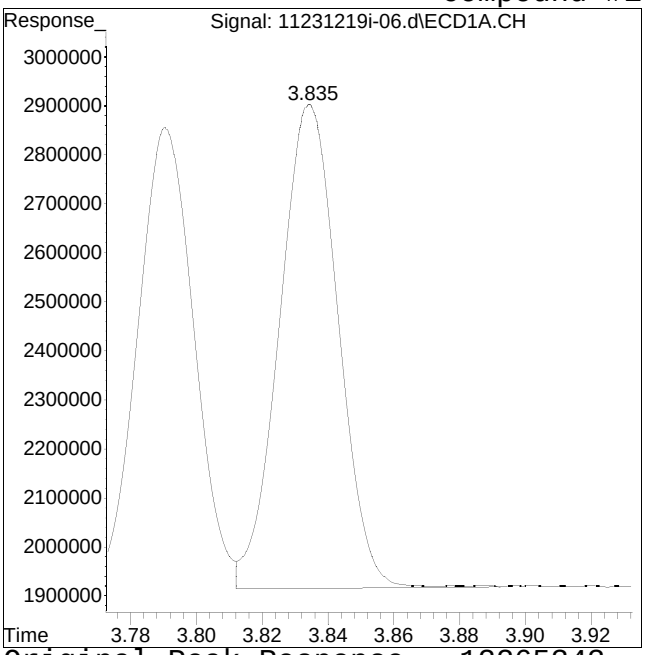


Original Peak Response = 16550813 Manual Peak Response = 16528797 M4
M4 = Poor automated baseline construction.

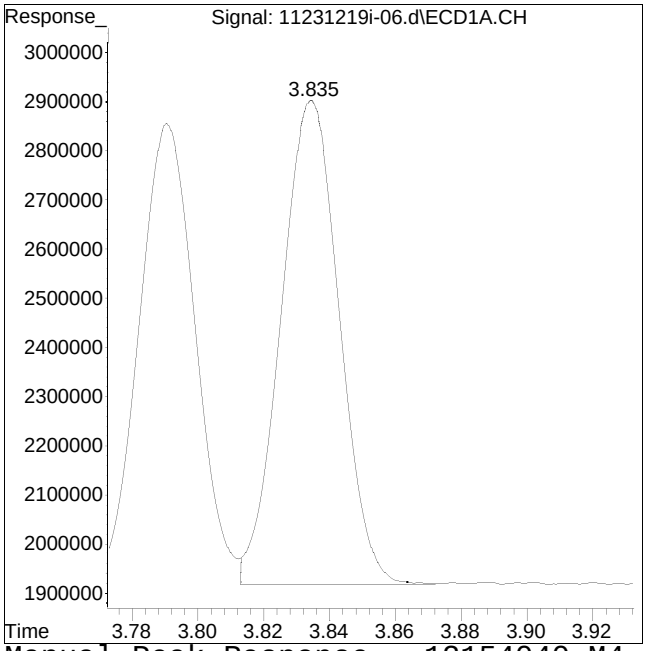
Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-06.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 2:23 pm Instrument : Pest 11
Sample : il4pest,42e,,pp 11403 L0.0Quant Date : 12/20/2023 5:58 pm

Compound #16: Endosulfan I



Original Peak Response = 12265343



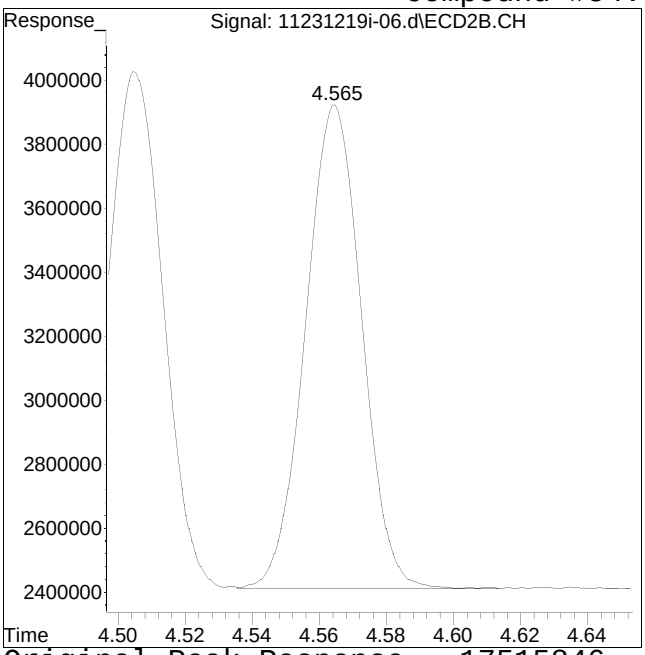
Manual Peak Response = 12154040 M4

M4 = Poor automated baseline construction.

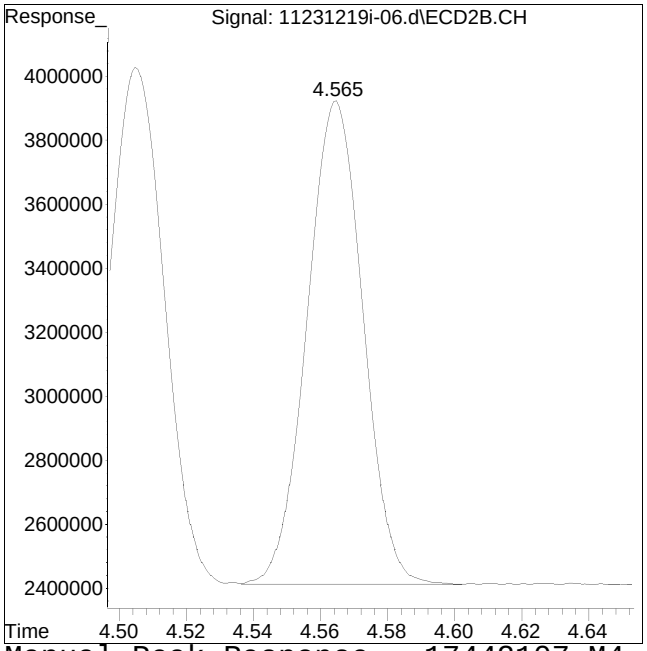
Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-06.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 2:23 pm Instrument : Pest 11
Sample : il4pest,42e,,pp 11403 L0.0Quant Date : 12/20/2023 5:58 pm

Compound #54: Endosulfan I #2



Original Peak Response = 17515846

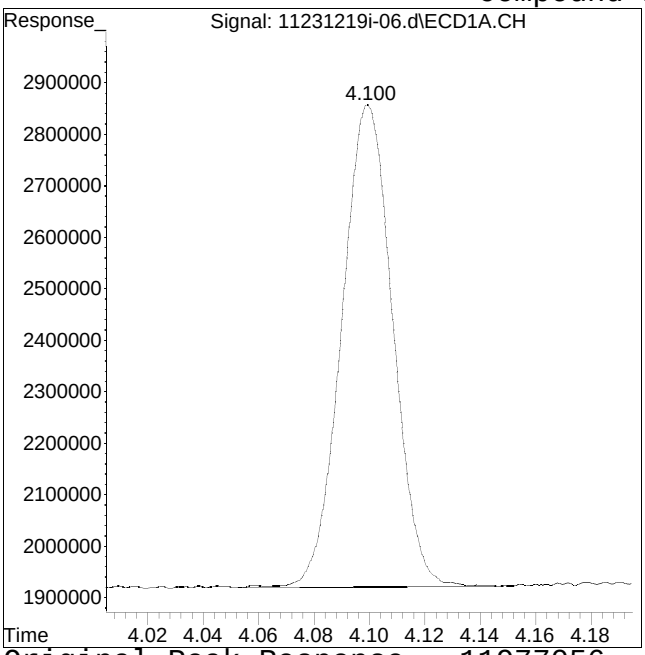


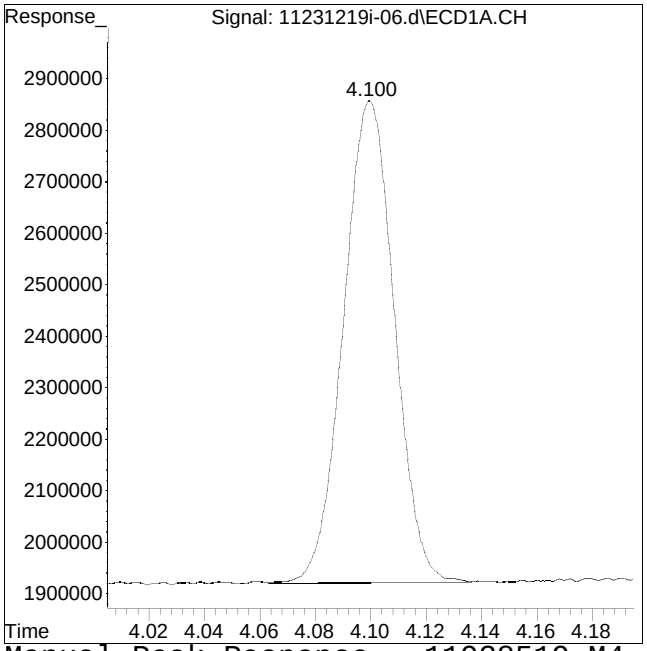
Manual Peak Response = 17442107 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-06.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 2:23 pm Instrument : Pest 11
Sample : il4pest,42e,,pp 11403 L0.0Quant Date : 12/20/2023 5:58 pm

Compound #17: Dieldrin



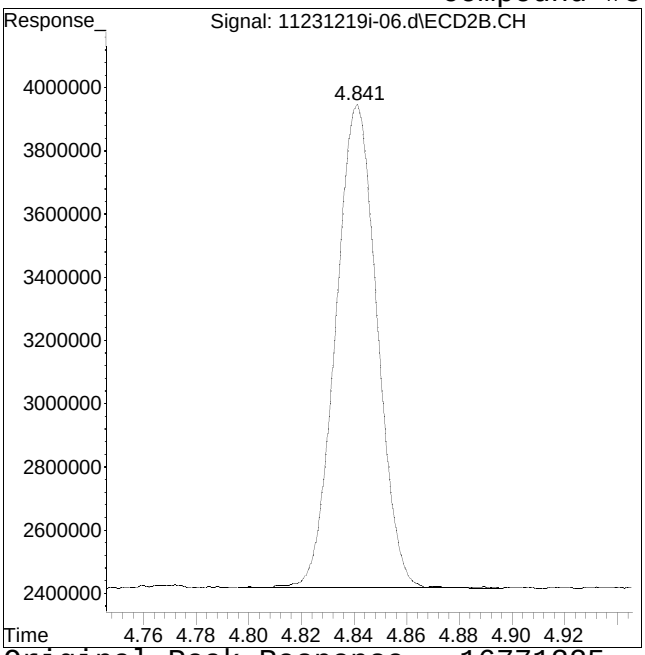


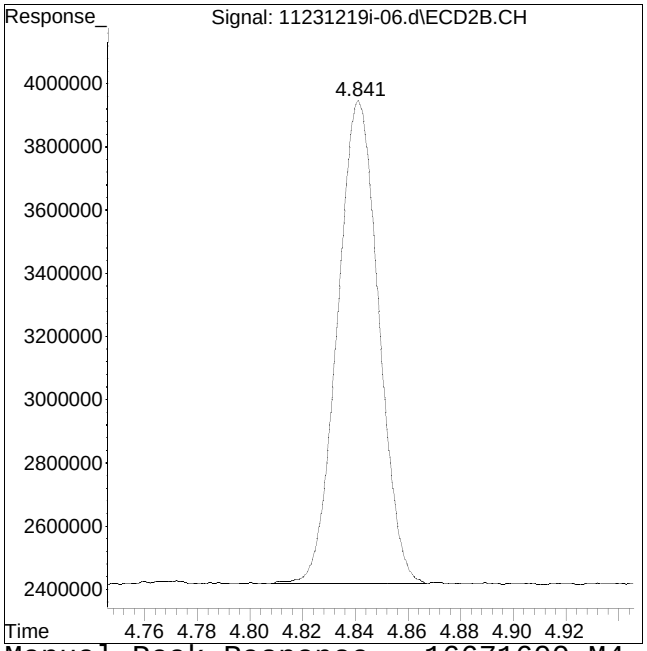
Original Peak Response = 11977056 Manual Peak Response = 11938519 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-06.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 2:23 pm Instrument : Pest 11
Sample : il4pest,42e,,pp 11403 L0.0Quant Date : 12/20/2023 5:58 pm

Compound #55: Dieldrin #2



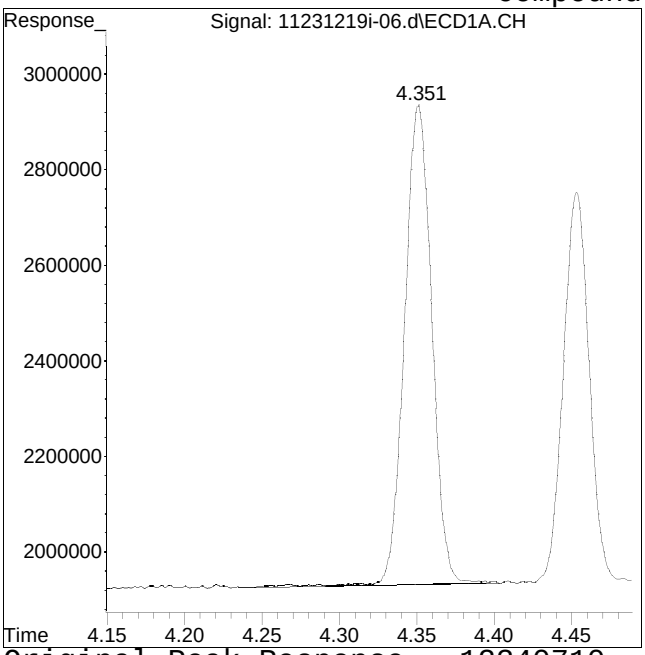


Original Peak Response = 16771225 Manual Peak Response = 16671600 M4
M4 = Poor automated baseline construction.

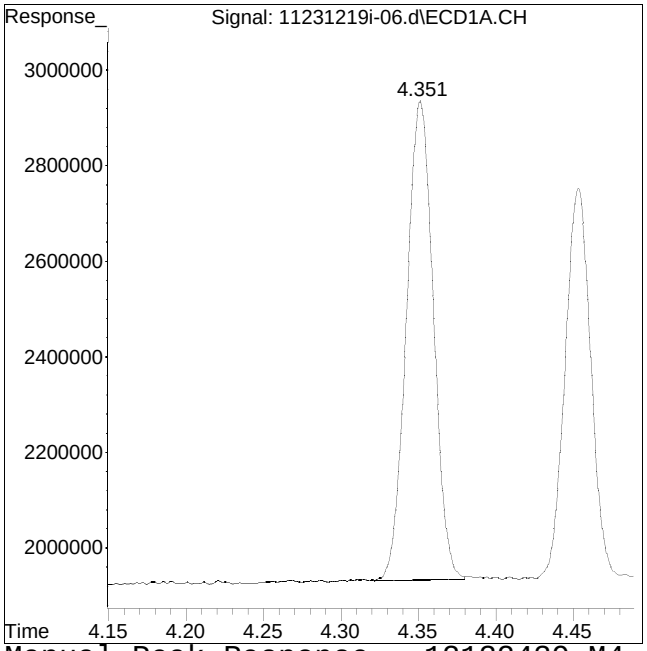
Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-06.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 2:23 pm Instrument : Pest 11
Sample : il4pest,42e,,pp 11403 L0.0Quant Date : 12/20/2023 5:58 pm

Compound #18: Endrin



Original Peak Response = 12340710



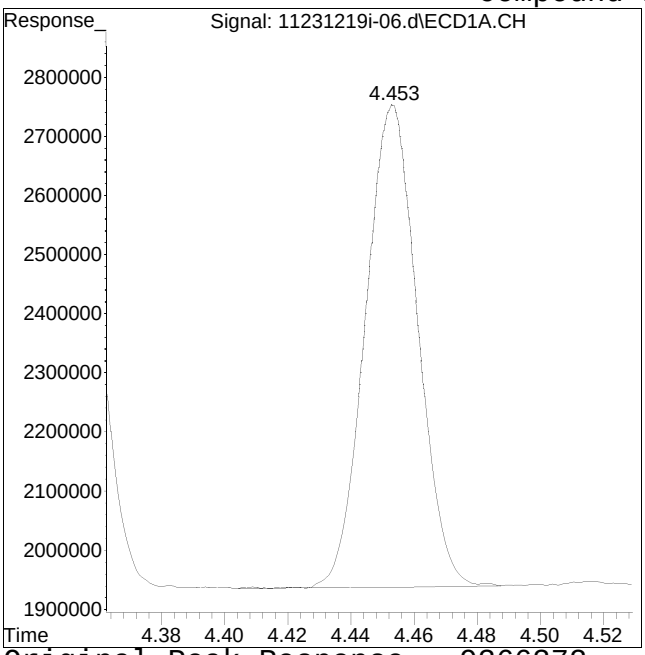
Manual Peak Response = 12132439 M4

M4 = Poor automated baseline construction.

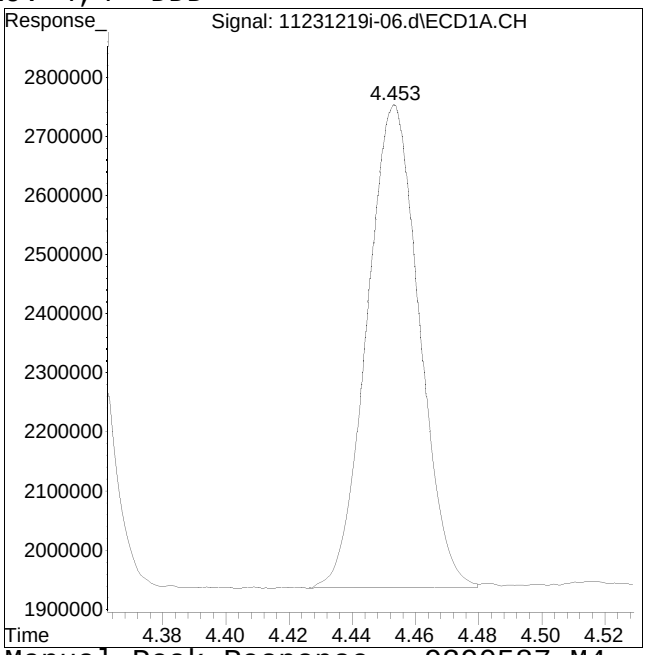
Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-06.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 2:23 pm Instrument : Pest 11
Sample : il4pest,42e,,pp 11403 L0.0Quant Date : 12/20/2023 5:58 pm

Compound #19: 4,4'-DDD



Original Peak Response = 9366372



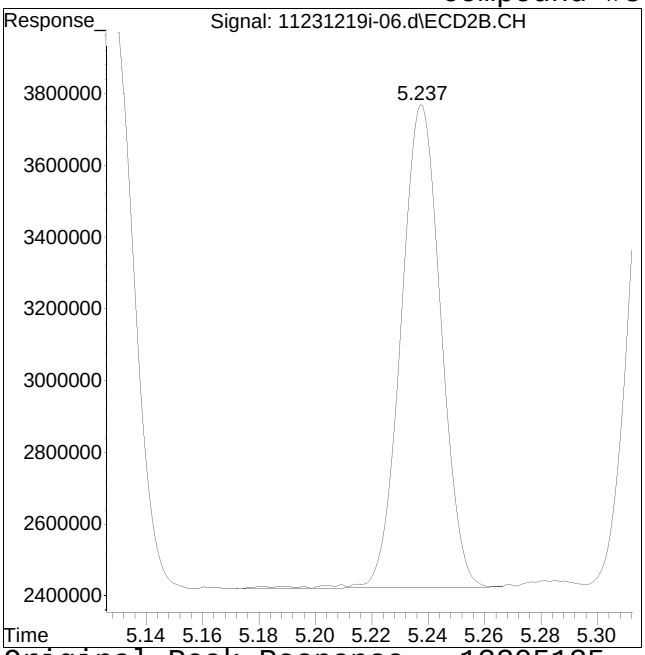
Manual Peak Response = 9390587 M4

M4 = Poor automated baseline construction.

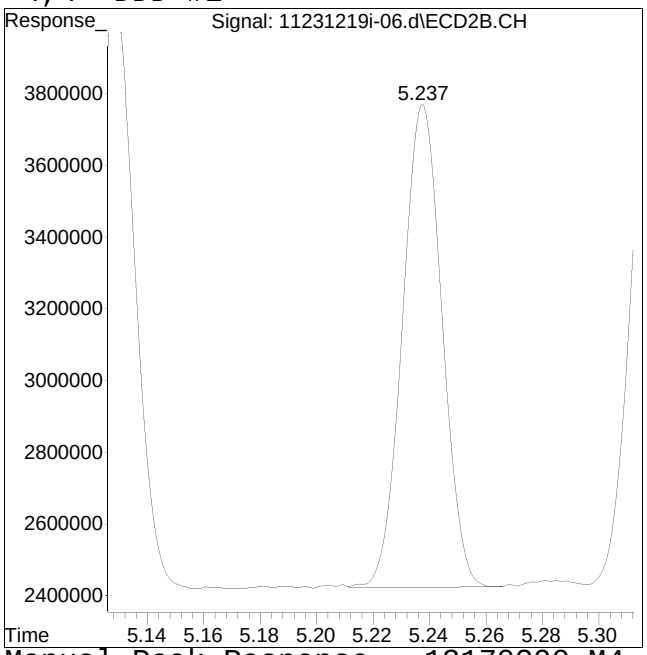
Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-06.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 2:23 pm Instrument : Pest 11
Sample : il4pest,42e,,pp 11403 L0.0Quant Date : 12/20/2023 5:58 pm

Compound #57: 4,4'-DDD #2



Original Peak Response = 13305135



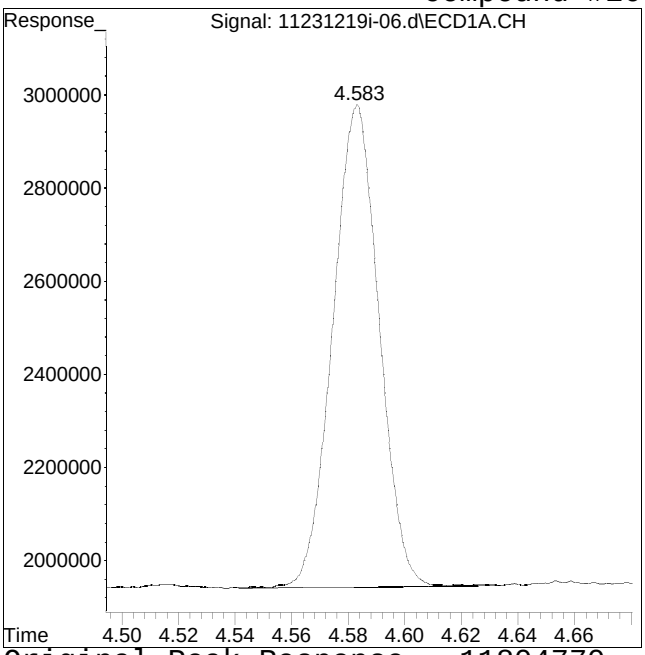
Manual Peak Response = 13170390 M4

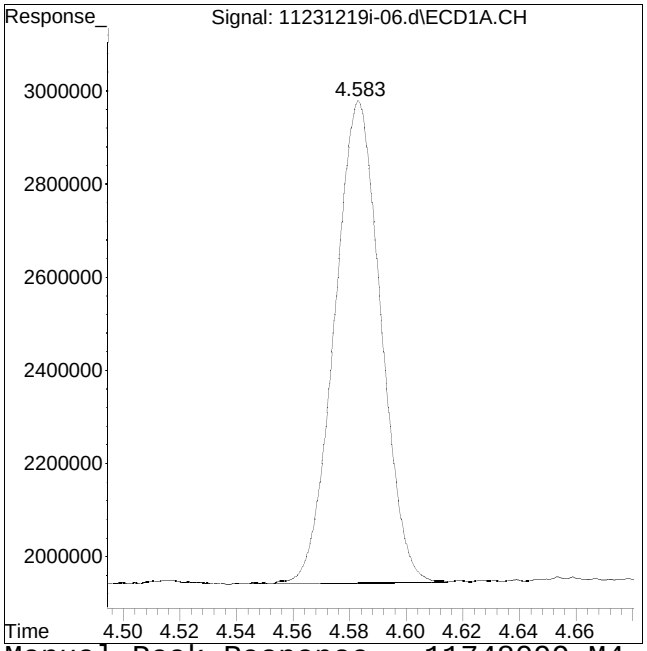
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-06.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 2:23 pm Instrument : Pest 11
Sample : il4pest,42e,,pp 11403 L0.0Quant Date : 12/20/2023 5:58 pm

Compound #20: Endosulfan II



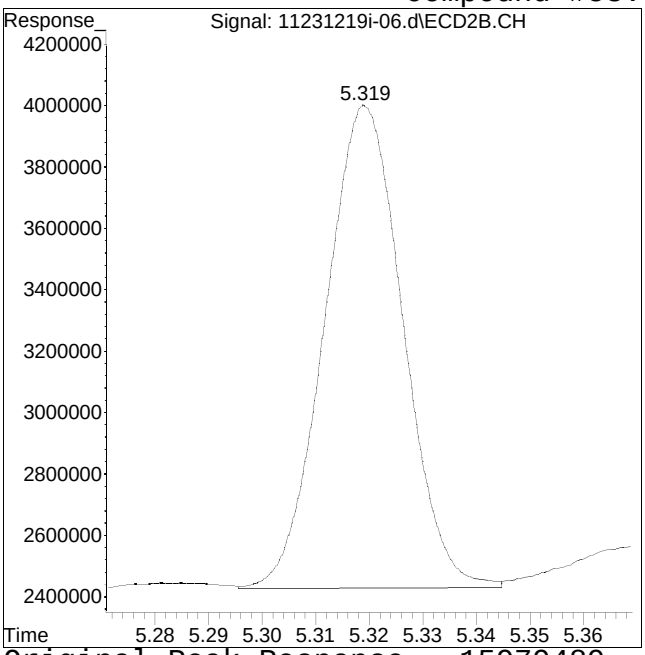


Original Peak Response = 11804770 Manual Peak Response = 11748099 M4
M4 = Poor automated baseline construction.

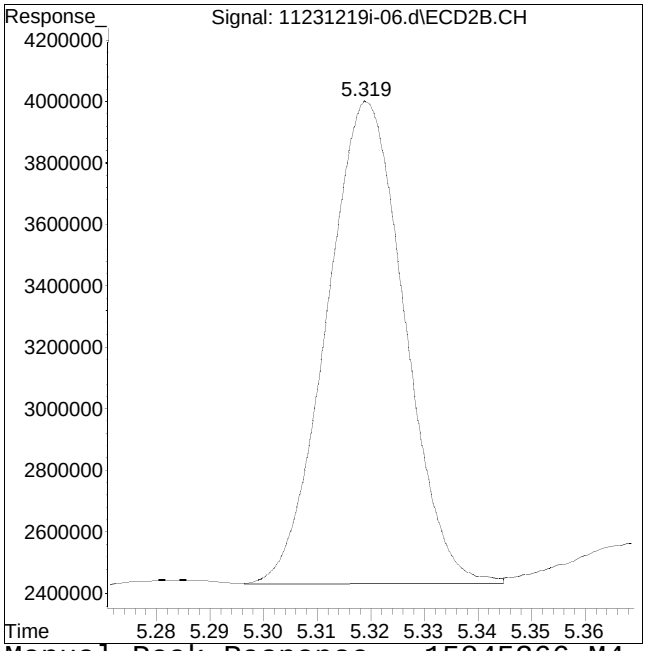
Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-06.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 2:23 pm Instrument : Pest 11
Sample : il4pest,42e,,pp 11403 L0.0Quant Date : 12/20/2023 5:58 pm

Compound #58: Endosulfan II #2



Original Peak Response = 15979489



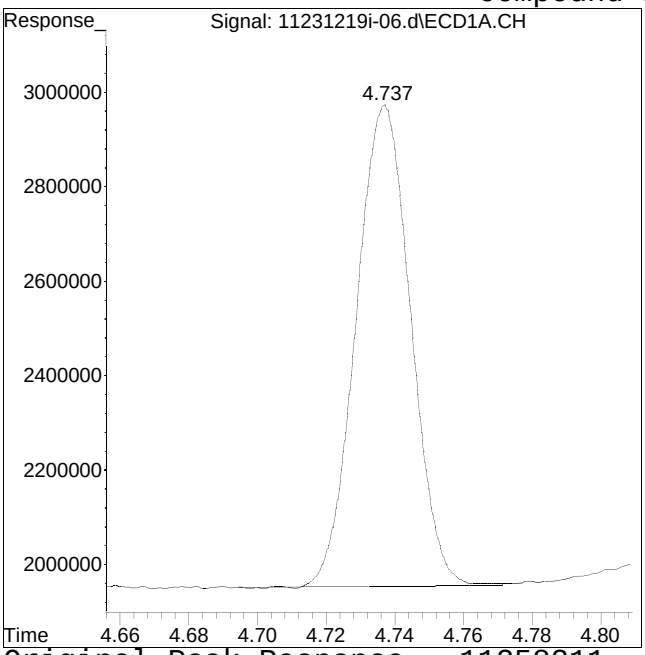
Manual Peak Response = 15845366 M4

M4 = Poor automated baseline construction.

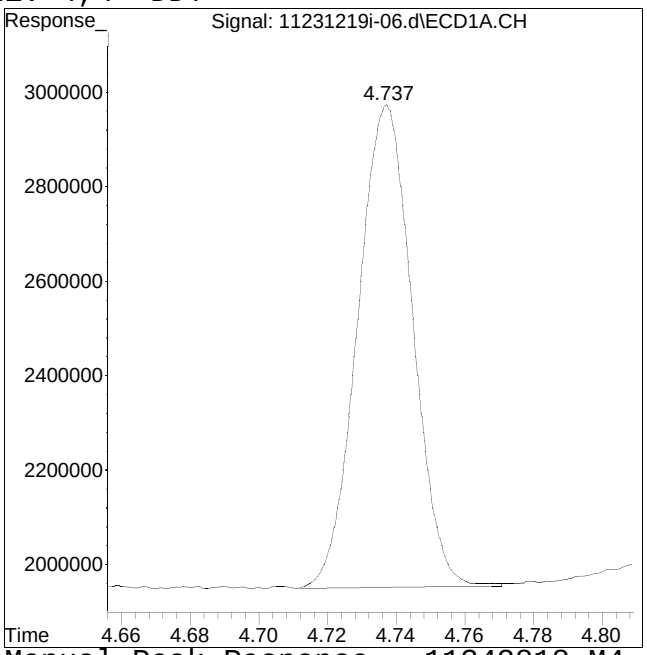
Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-06.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 2:23 pm Instrument : Pest 11
Sample : il4pest,42e,,pp 11403 L0.0Quant Date : 12/20/2023 5:58 pm

Compound #21: 4,4'-DDT



Original Peak Response = 11258211



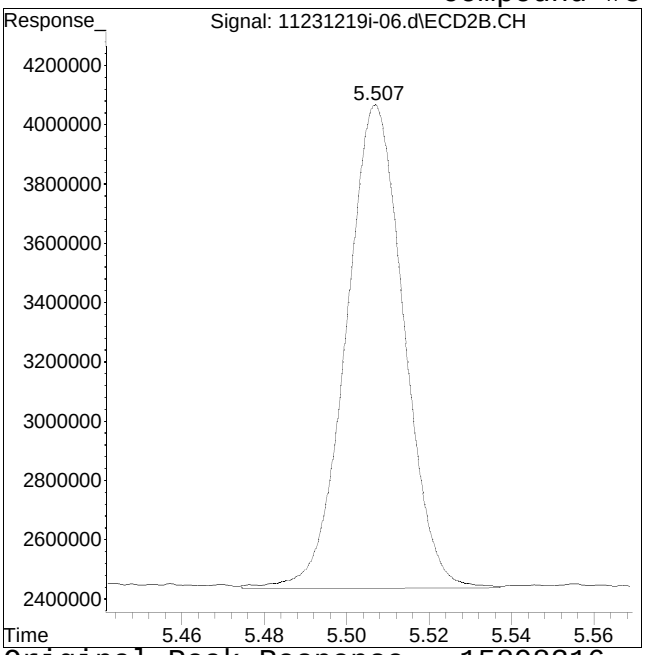
Manual Peak Response = 11342818 M4

M4 = Poor automated baseline construction.

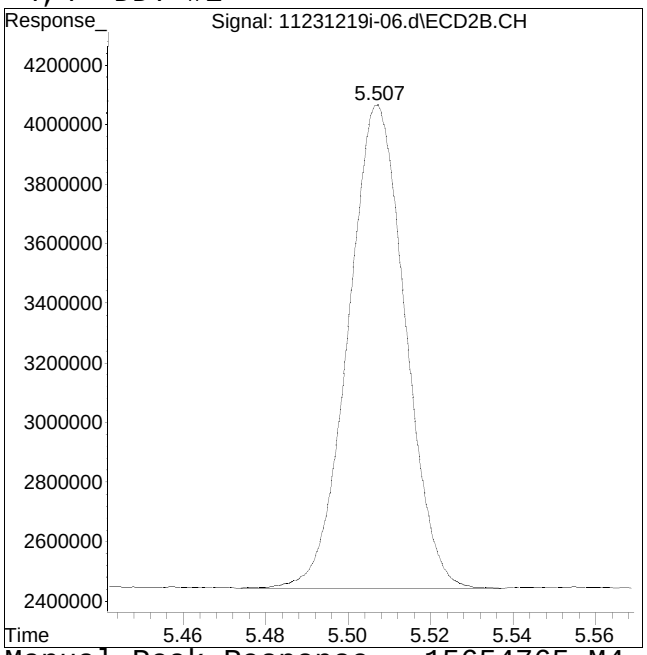
Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-06.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 2:23 pm Instrument : Pest 11
Sample : il4pest,42e,,pp 11403 L0.0Quant Date : 12/20/2023 5:58 pm

Compound #59: 4,4'-DDT #2



Original Peak Response = 15898316



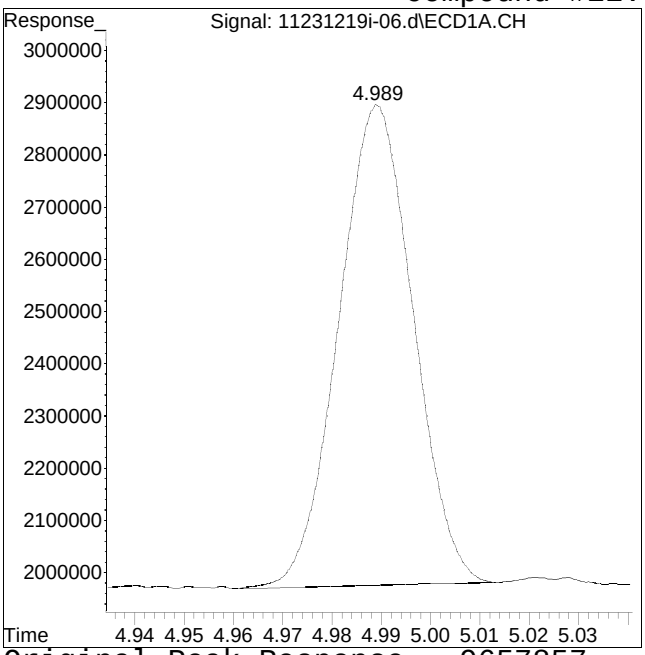
Manual Peak Response = 15654765 M4

M4 = Poor automated baseline construction.

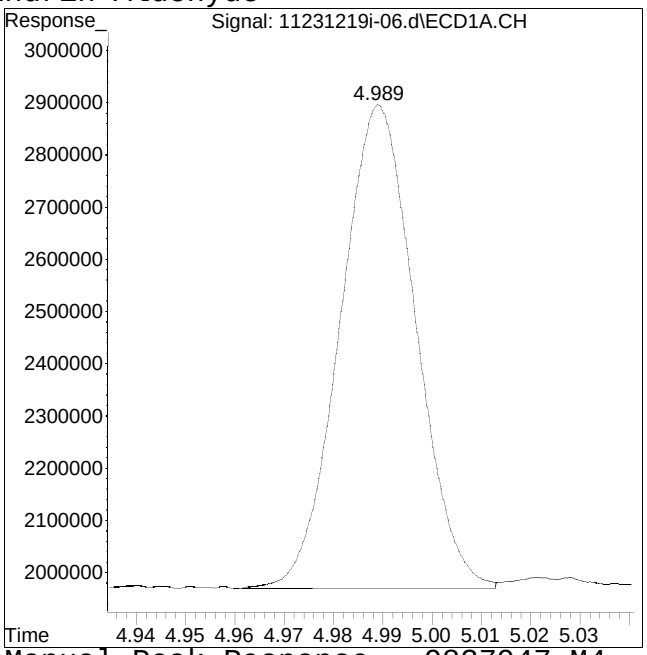
Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-06.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 2:23 pm Instrument : Pest 11
Sample : il4pest,42e,,pp 11403 L0.0Quant Date : 12/20/2023 5:58 pm

Compound #22: Endrin Aldehyde



Original Peak Response = 9657857



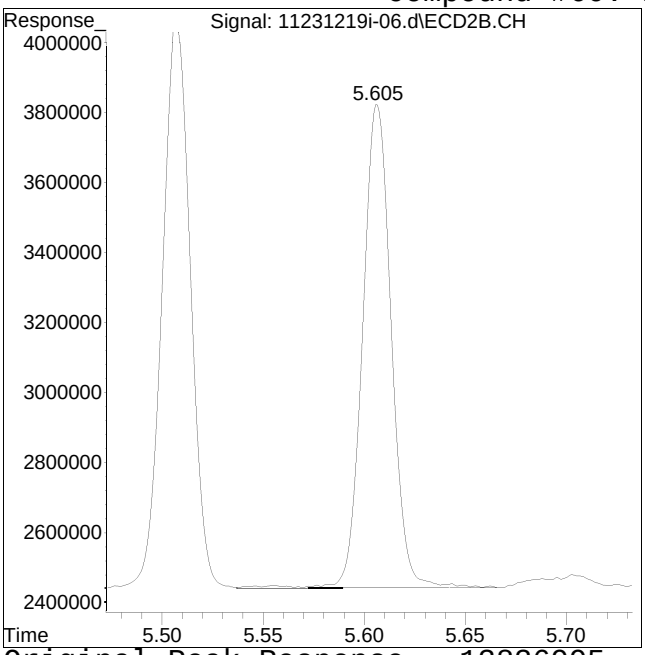
Manual Peak Response = 9837947 M4

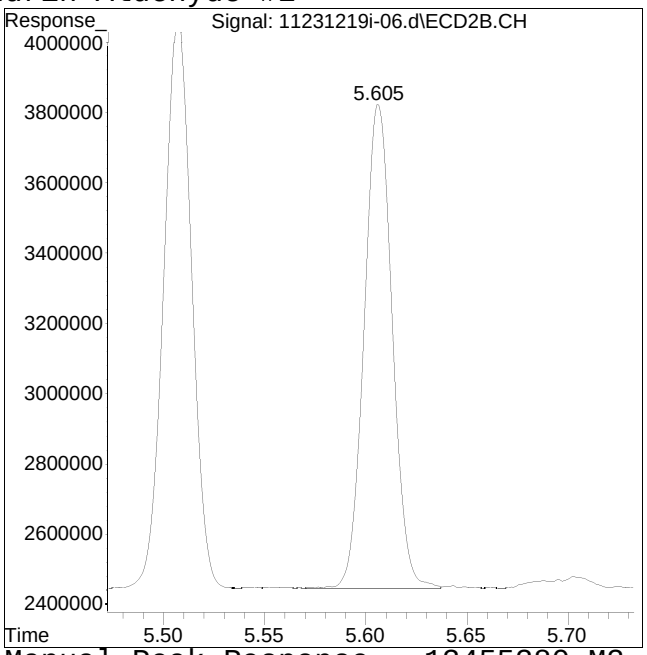
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-06.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 2:23 pm Instrument : Pest 11
Sample : il4pest,42e,,pp 11403 L0.0Quant Date : 12/20/2023 5:58 pm

Compound #60: Endrin Aldehyde #2



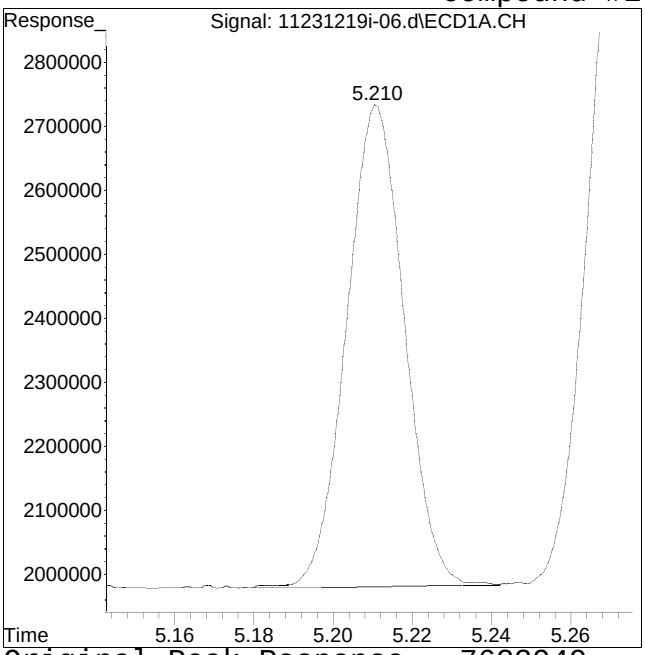


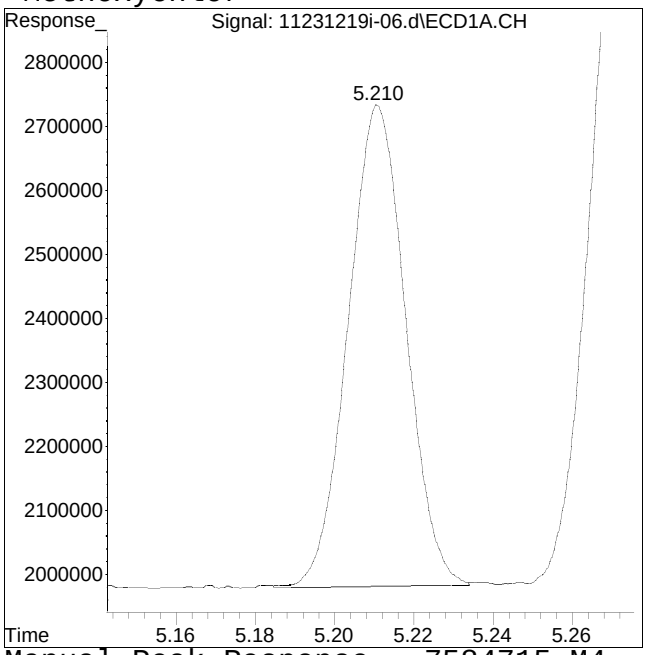
Original Peak Response = 13836995 Manual Peak Response = 13455380 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-06.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 2:23 pm Instrument : Pest 11
Sample : il4pest,42e,,pp 11403 L0.0Quant Date : 12/20/2023 5:58 pm

Compound #23: Methoxychlor



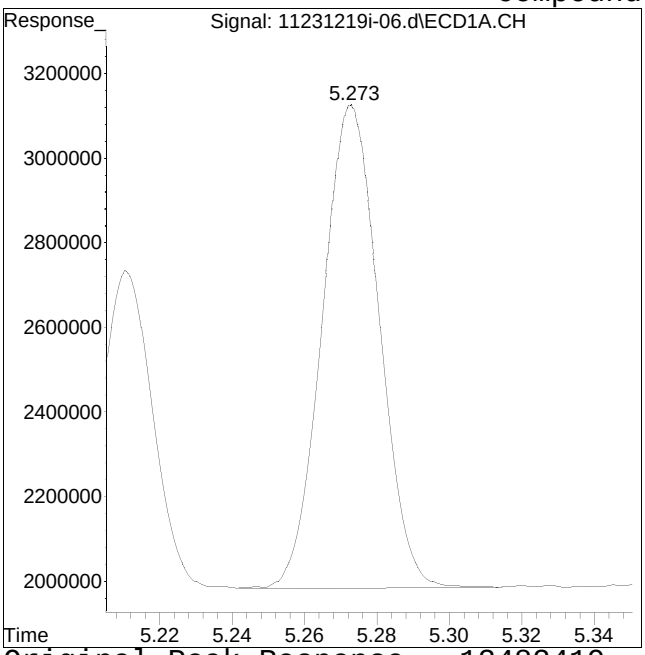


Original Peak Response = 7623949 Manual Peak Response = 7584715 M4
M4 = Poor automated baseline construction.

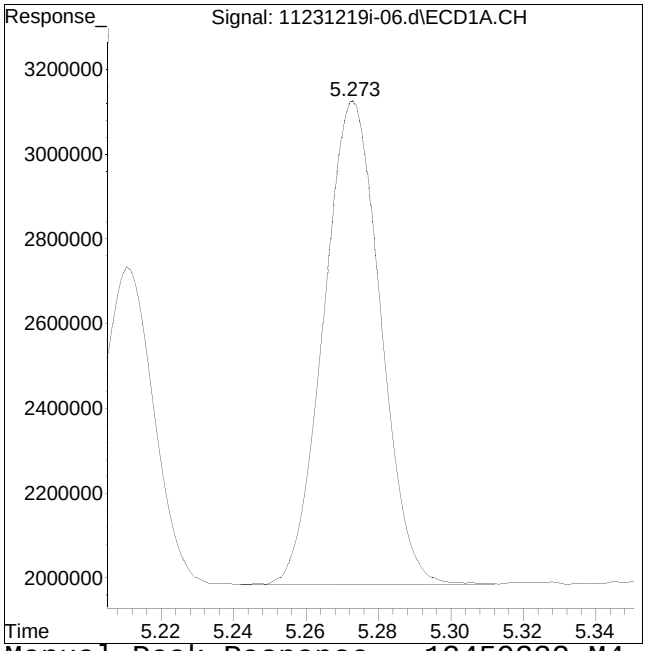
Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-06.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 2:23 pm Instrument : Pest 11
Sample : il4pest,42e,,pp 11403 L0.0Quant Date : 12/20/2023 5:58 pm

Compound #24: Mirex



Original Peak Response = 12482419



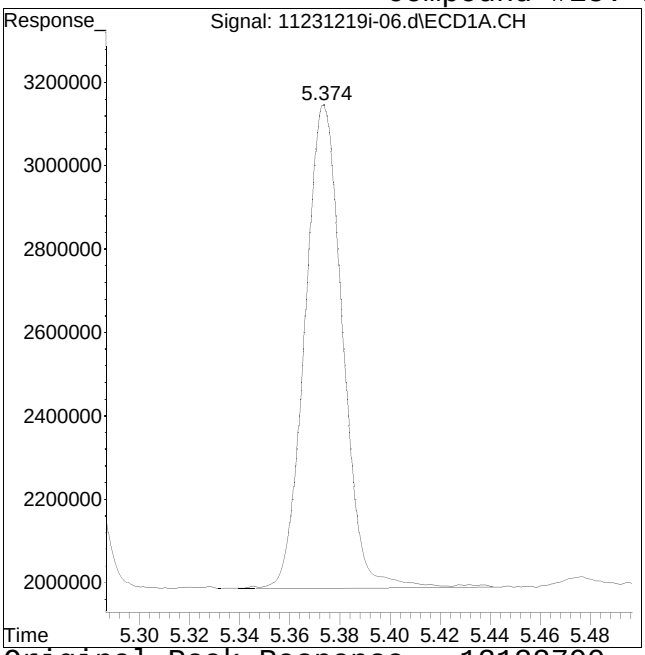
Manual Peak Response = 12459332 M4

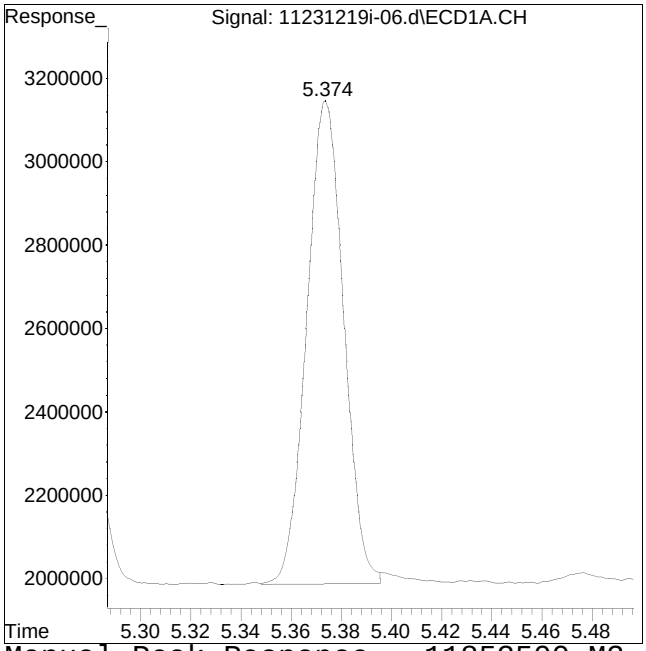
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-06.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 2:23 pm Instrument : Pest 11
Sample : il4pest,42e,,pp 11403 L0.0Quant Date : 12/20/2023 5:58 pm

Compound #25: Endosulfan Sulfate



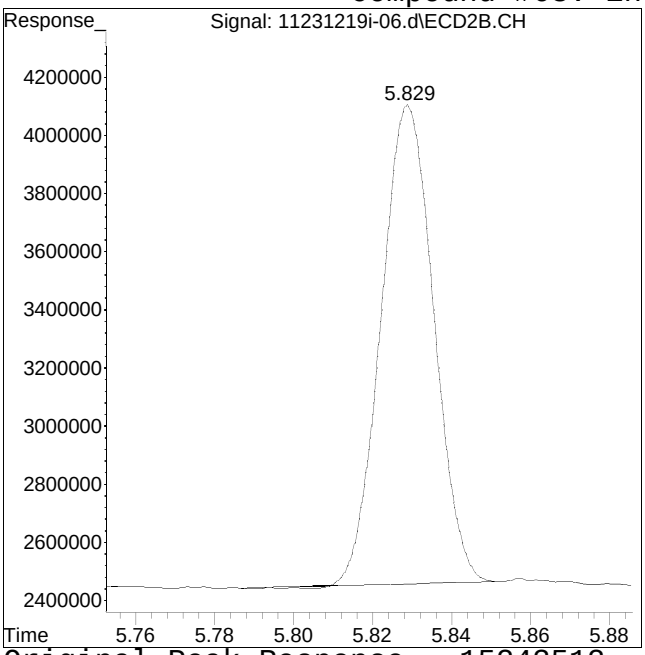


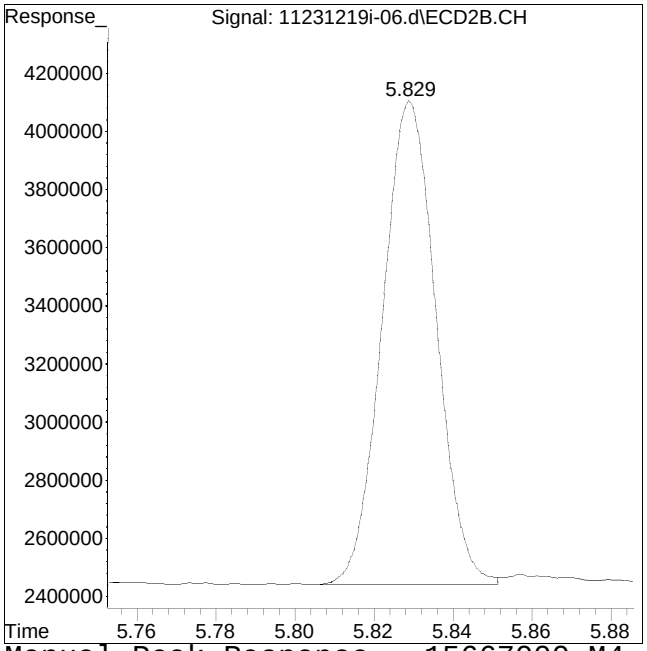
Original Peak Response = 12132790 Manual Peak Response = 11853500 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-06.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 2:23 pm Instrument : Pest 11
Sample : il4pest,42e,,pp 11403 L0.0Quant Date : 12/20/2023 5:58 pm

Compound #63: Endosulfan Sulfate #2



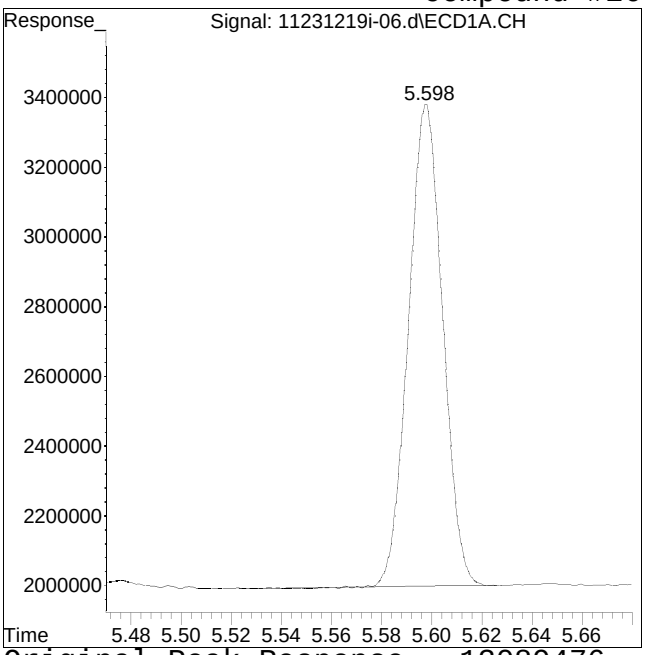


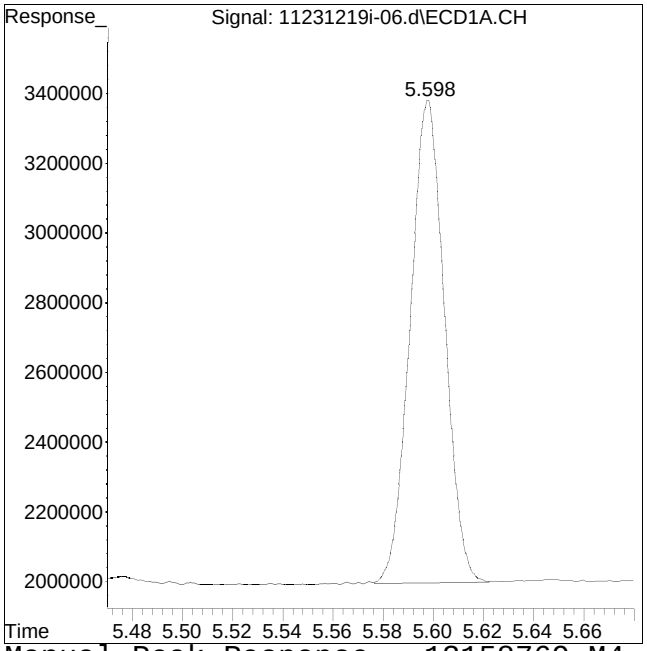
Original Peak Response = 15243512 Manual Peak Response = 15667000 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-06.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 2:23 pm Instrument : Pest 11
Sample : il4pest,42e,,pp 11403 L0.0Quant Date : 12/20/2023 5:58 pm

Compound #26: Endrin Ketone



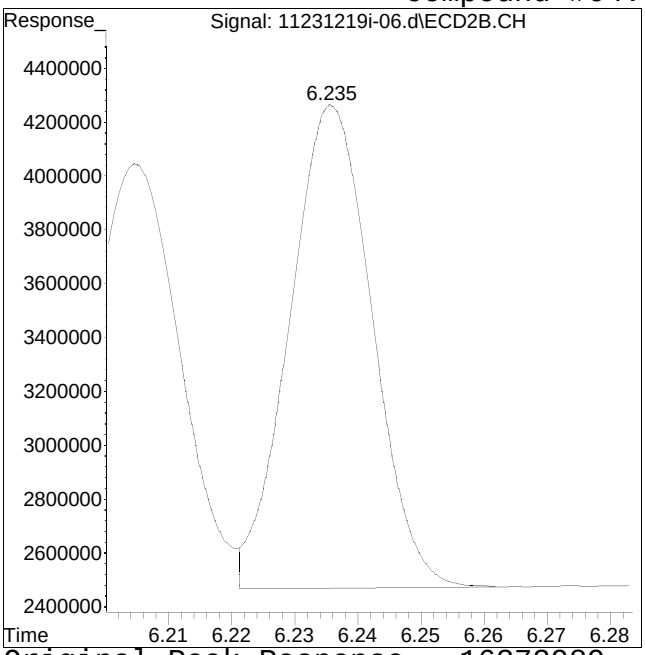


Original Peak Response = 13089476 Manual Peak Response = 13158769 M4
M4 = Poor automated baseline construction.

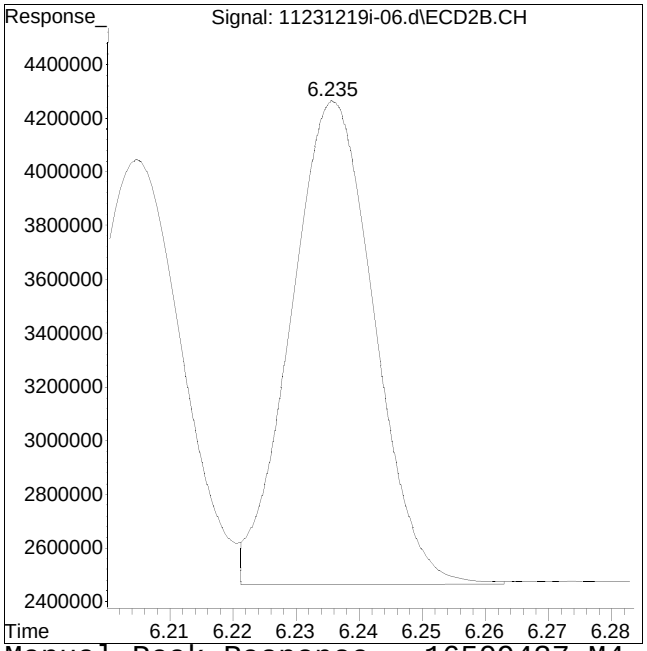
Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-06.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 2:23 pm Instrument : Pest 11
Sample : il4pest,42e,,pp 11403 L0.0Quant Date : 12/20/2023 5:58 pm

Compound #64: Endrin Ketone #2



Original Peak Response = 16372989



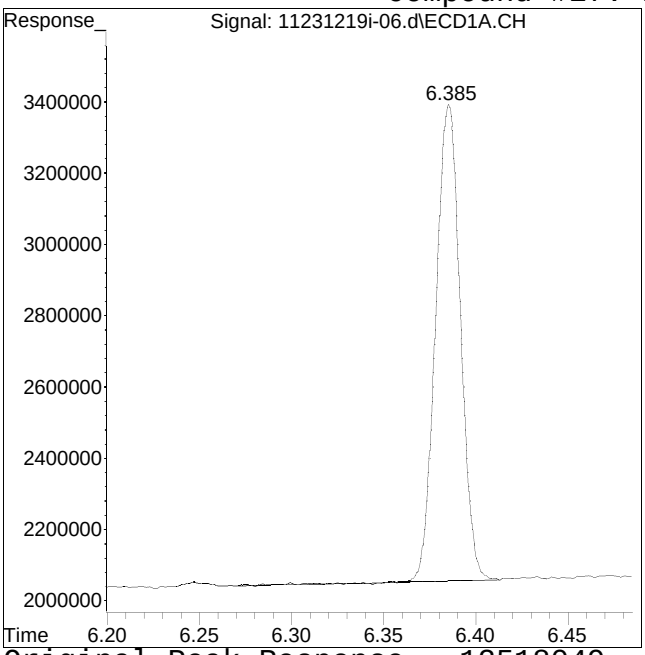
Manual Peak Response = 16509437 M4

M4 = Poor automated baseline construction.

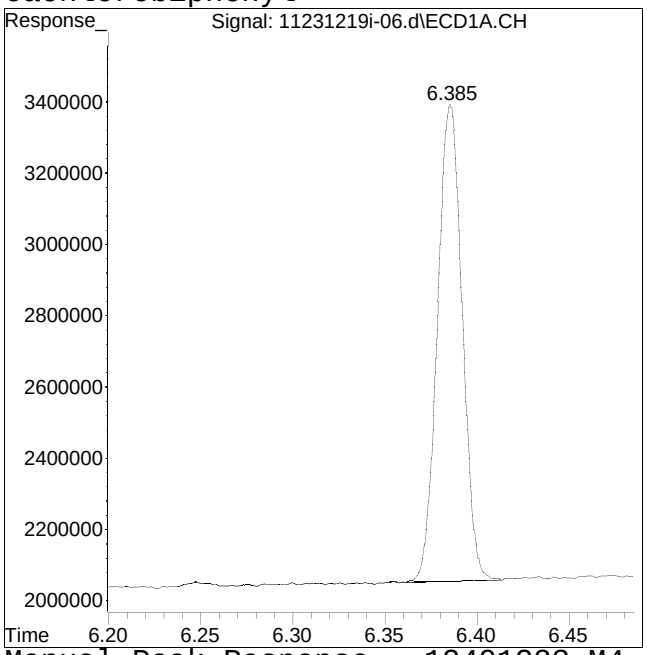
Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-06.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 2:23 pm Instrument : Pest 11
Sample : il4pest,42e,,pp 11403 L0.0Quant Date : 12/20/2023 5:58 pm

Compound #27: Decachlorobiphenyl



Original Peak Response = 12518049



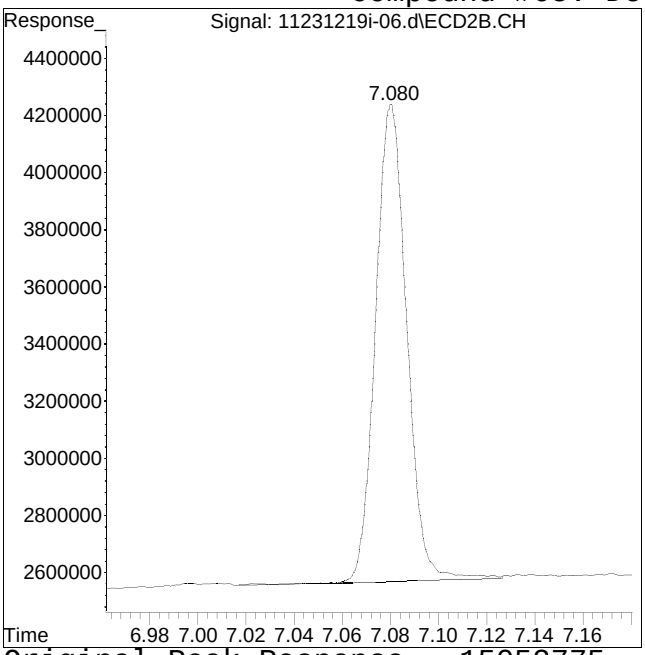
Manual Peak Response = 12491223 M4

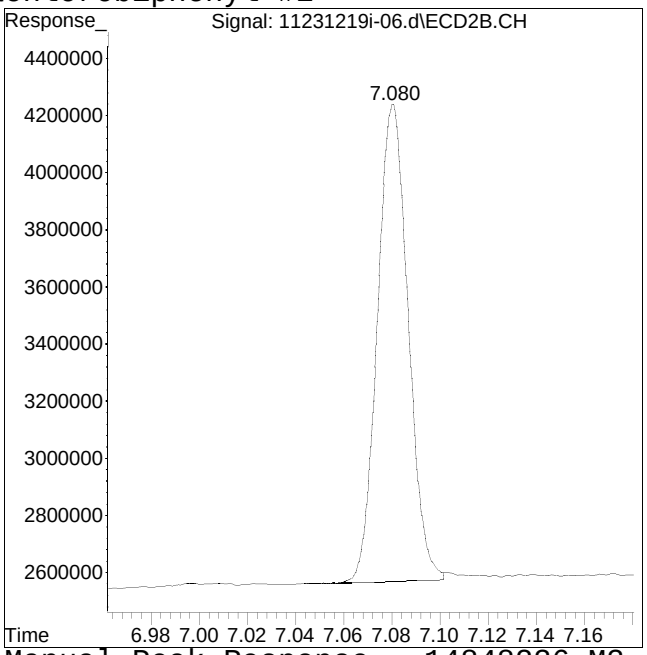
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-06.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 2:23 pm Instrument : Pest 11
Sample : il4pest,42e,,pp 11403 L0.0Quant Date : 12/20/2023 5:58 pm

Compound #65: Decachlorobiphenyl #2





Original Peak Response = 15052775 Manual Peak Response = 14848236 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2023\231219ICAL\
Data File : 11231219i-07.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 19 Dec 2023 2:35 pm
Operator : PEST11:ejl
Sample : il5pest,42e,,pp 11402 L0.004
Misc : WG1866910,ical (Sig #1); ical (Sig #2)
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 20 17:56:53 2023
Quant Method : I:\PEST\Pest11\2023\231219ICAL\pest11_12_19_23_ugL_ICAL.M
Quant Title : pest
QLast Update : Wed Dec 20 17:45:09 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	1.374	1.480	88240728	121.7E6	25.000M4	25.000
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.728	1.985	13406120	19601496	4.073M4	4.266
	Spiked Amount 50.000	Range 30 - 150		Recovery =		8.15%#	8.53%#
27) s	Decachlorobi	6.385	7.080	16174867	19064966	4.880M4	4.922M4
	Spiked Amount 50.000	Range 30 - 150		Recovery =		9.76%#	9.84%#
	Target Compounds						
3) t	Hexachlorobe	1.949	2.326	16113917	22925999	4.379M4	4.566M4
4) t	alpha-BHC	2.050	2.427	17081266	25225896	3.385M4	3.622M4
5) t	gamma-BHC (l	2.260	2.730	16827853	24428733	3.585M3	3.848
6) t	beta-BHC	2.318	2.797	8868933	13156443	4.384	4.770M4
7) t	delta-BHC	2.450	3.079	16541665	23956220	3.442M4	3.719
8) t	Heptachlor	2.618	3.150	17972275	26378119	3.937M4	4.208M4
9) t	Aldrin	2.869	3.486	15759196	23264993	3.679M4	3.966
10) t	Alachlor	2.992	3.358	2905479	4167000	4.687M4	5.006M4
11) t	Chlorpyrifos	3.086	3.728	10108497	16293149	4.841M4	5.285
12) t	Heptachlor E	3.429	4.128	16690429	24432432	4.066M4	4.369
13) t	gamma-Chlord	3.556	4.346	14760632	21818477	3.933M4	4.306M3
14) t	alpha-Chlord	3.694	4.505	17156674	24178251	4.021M4	4.333
15) t	4,4'-DDE	3.790	4.687	14655995	21263354	3.549M4	3.913M4
16) t	Endosulfan I	3.834	4.564	15886644	22363984	4.046M4	4.340M4

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2023\231219ICAL\
Data File : 11231219i-07.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 19 Dec 2023 2:35 pm
Operator : PEST11:ejl
Sample : il5pest,42e,,pp 11402 L0.004
Misc : WG1866910,ical (Sig #1); ical (Sig #2)
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 20 17:56:53 2023
Quant Method : I:\PEST\Pest11\2023\231219ICAL\pest11_12_19_23_ugL_ICAL.M
Quant Title : pest
QLast Update : Wed Dec 20 17:45:09 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
17) t	Dieldrin	4.099	4.841	15492271	21512967	3.782M4	4.045M4
18) t	Endrin	4.351	5.129	15860549	21259278	3.763M4	3.968M4
19) t	4,4'-DDD	4.453	5.238	12236684	16887176	3.611M4	3.916M4
20) t	Endosulfan I	4.583	5.320	15397875	20295402	4.120M4	4.380
21) t	4,4'-DDT	4.737	5.508	14828116	19973597	3.764	4.089
22) t	Endrin Aldeh	4.989	5.607	12786240	16963298	4.072M4	4.309M3
23) t	Methoxychlor	5.211	6.057	9849522	12492312	4.538M4	4.828
24) t	Mirex	5.273	6.206	16123534	19344911	4.778	5.097
25) t	Endosulfan S	5.374	5.830	15376617	19877477	4.280M3	4.451M4
26) t	Endrin Keton	5.598	6.236	17317090	21026516	4.201M4	4.278M4
29) l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2023\231219ICAL\
Data File : 11231219i-07.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 19 Dec 2023 2:35 pm
Operator : PEST11:ejl
Sample : il5pest,42e,,pp 11402 L0.004
Misc : WG1866910,ical (Sig #1); ical (Sig #2)
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 20 17:56:53 2023
Quant Method : I:\PEST\Pest11\2023\231219ICAL\pest11_12_19_23_ugL_ICAL.M
Quant Title : pest
QLast Update : Wed Dec 20 17:45:09 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Sum toxaphene-2			0	0	N.D.	N.D.
Average toxaphene-2					0.000	0.000

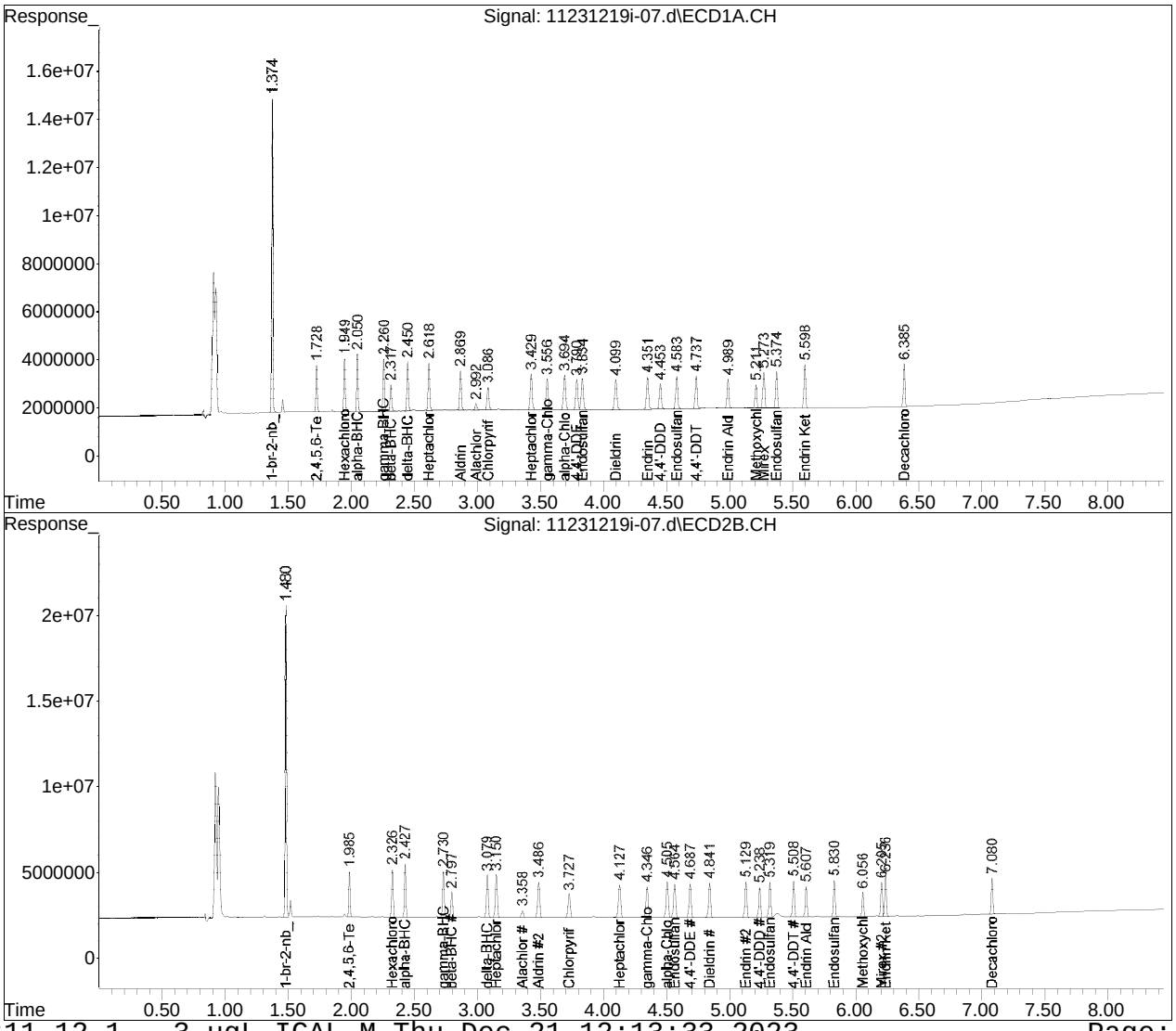
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest11\2023\231219ICAL\
Data File : 11231219i-07.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 19 Dec 2023 2:35 pm
Operator : PEST11:ejl
Sample : il5pest,42e,,pp 11402 L0.004
Misc : WG1866910,ical (Sig #1); ical (Sig #2)
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 20 17:56:53 2023
Quant Method : I:\PEST\Pest11\2023\231219ICAL\pest11_12_19_23_ugL_ICAL.M
Quant Title : pest
QLast Update : Wed Dec 20 17:45:09 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

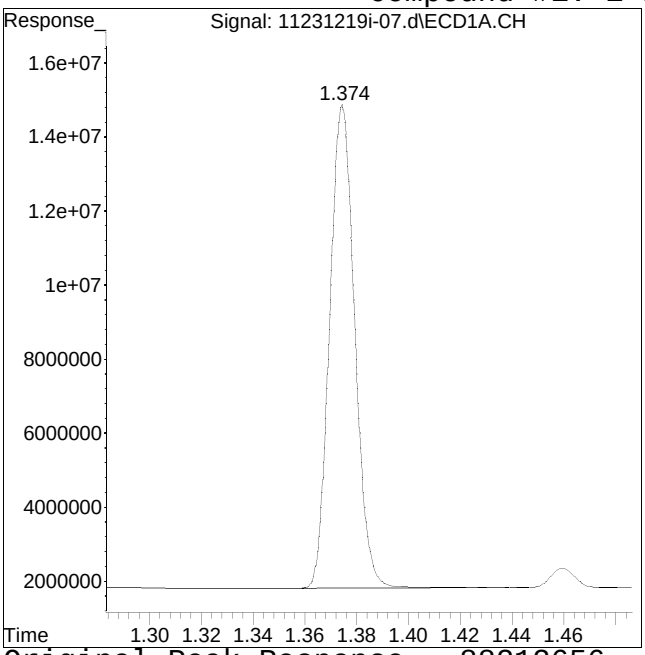
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



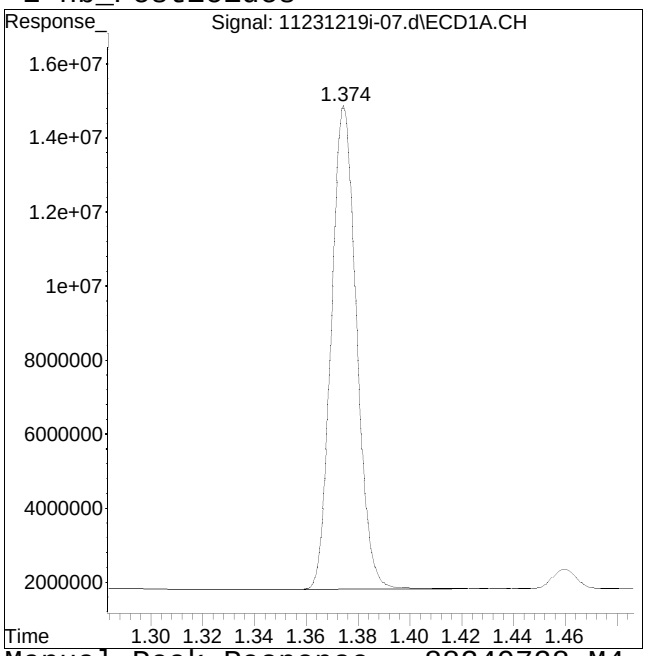
Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-07.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 2:35 pm Instrument : Pest 11
Sample : il5pest,42e,,pp 11402 L0.0Quant Date : 12/20/2023 5:45 pm

Compound #1: 1-br-2-nb_Pesticides



Original Peak Response = 88212656



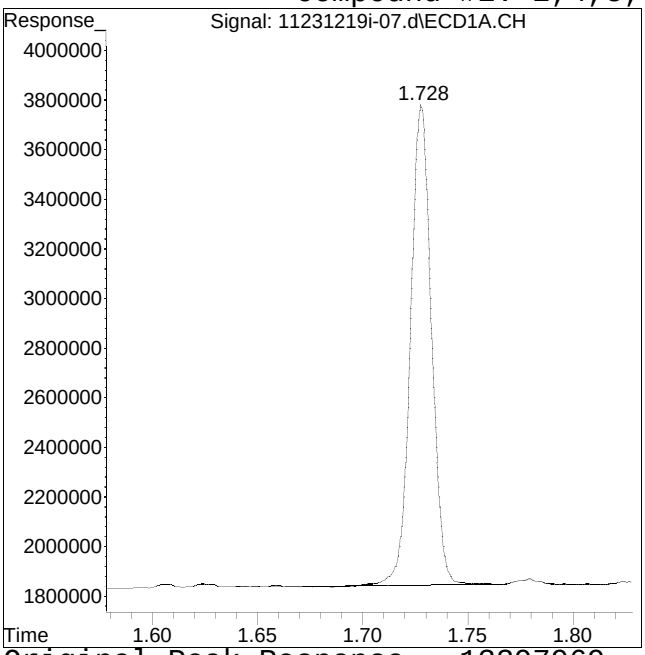
Manual Peak Response = 88240728 M4

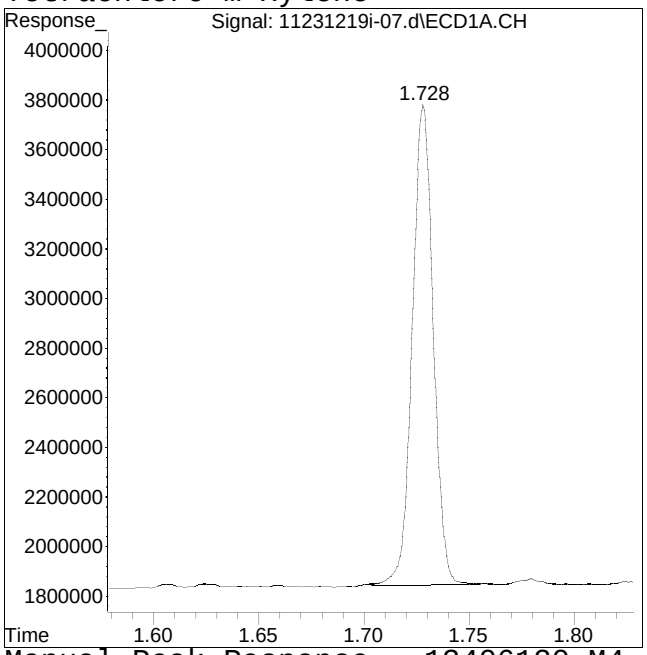
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-07.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 2:35 pm Instrument : Pest 11
Sample : il5pest,42e,,pp 11402 L0.0Quant Date : 12/20/2023 5:45 pm

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



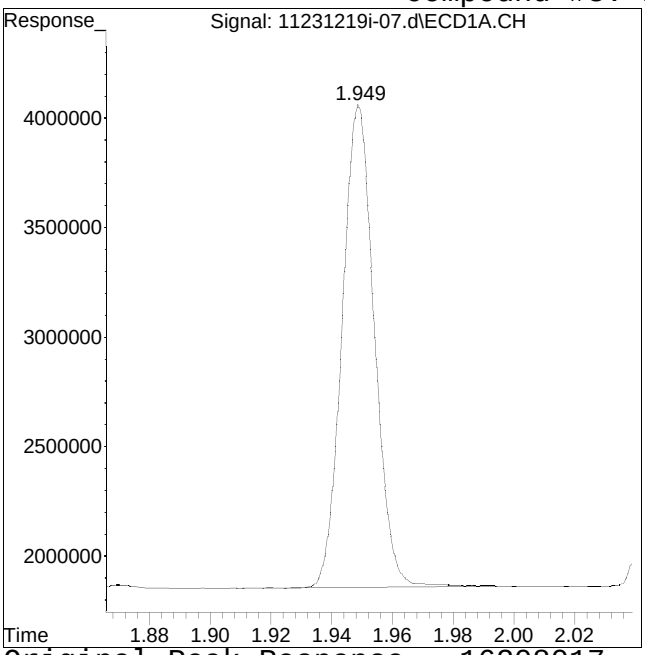


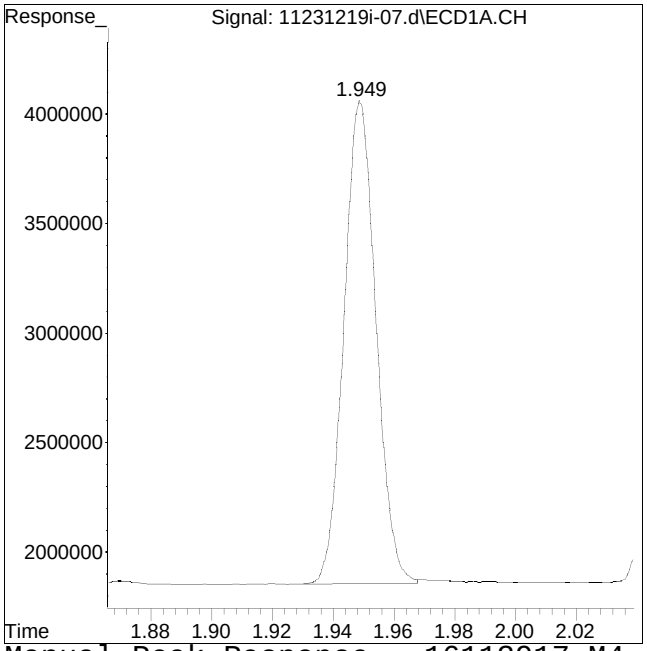
Original Peak Response = 13397969 Manual Peak Response = 13406120 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-07.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 2:35 pm Instrument : Pest 11
Sample : il5pest,42e,,pp 11402 L0.0Quant Date : 12/20/2023 5:45 pm

Compound #3: Hexachlorobenzene



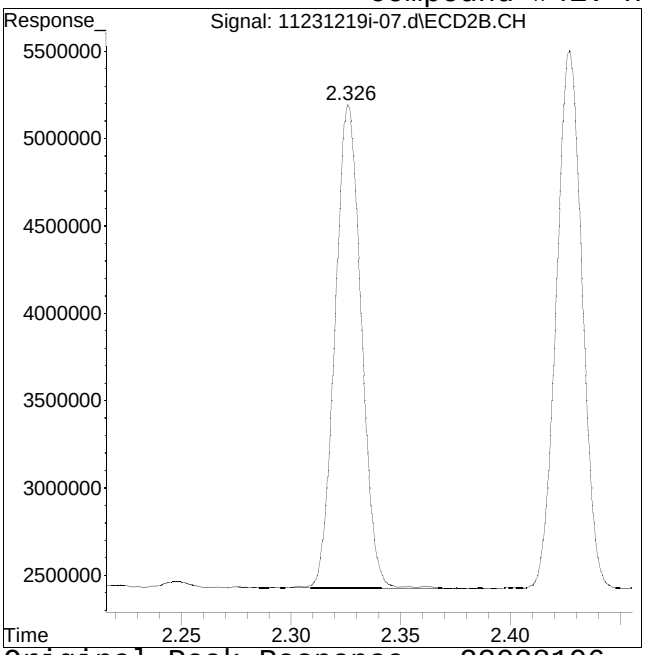


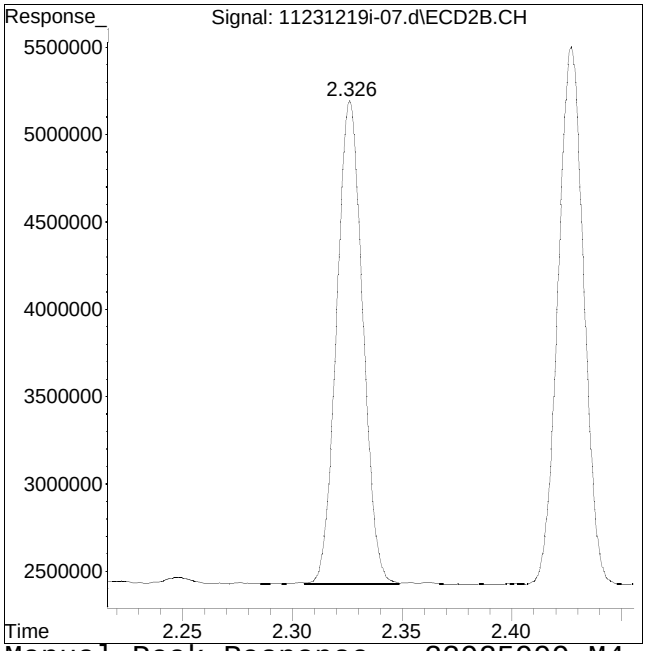
Original Peak Response = 16208017 Manual Peak Response = 16113917 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-07.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 2:35 pm Instrument : Pest 11
Sample : il5pest,42e,,pp 11402 L0.0Quant Date : 12/20/2023 5:45 pm

Compound #41: Hexachlorobenzene #2



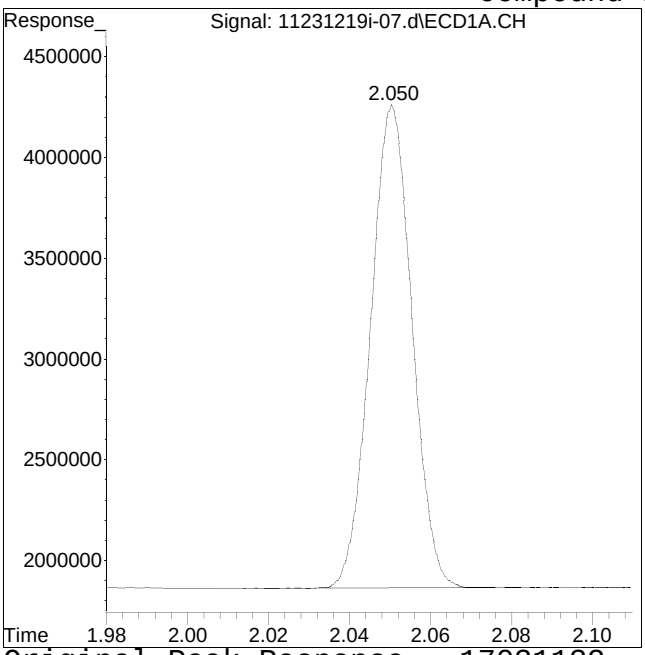


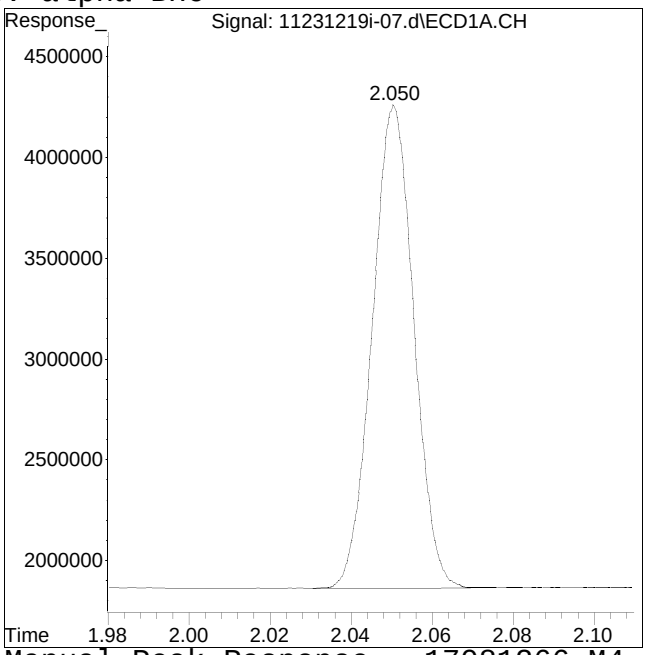
Original Peak Response = 23028196 Manual Peak Response = 22925999 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-07.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 2:35 pm Instrument : Pest 11
Sample : il5pest,42e,,pp 11402 L0.0Quant Date : 12/20/2023 5:45 pm

Compound #4: alpha-BHC



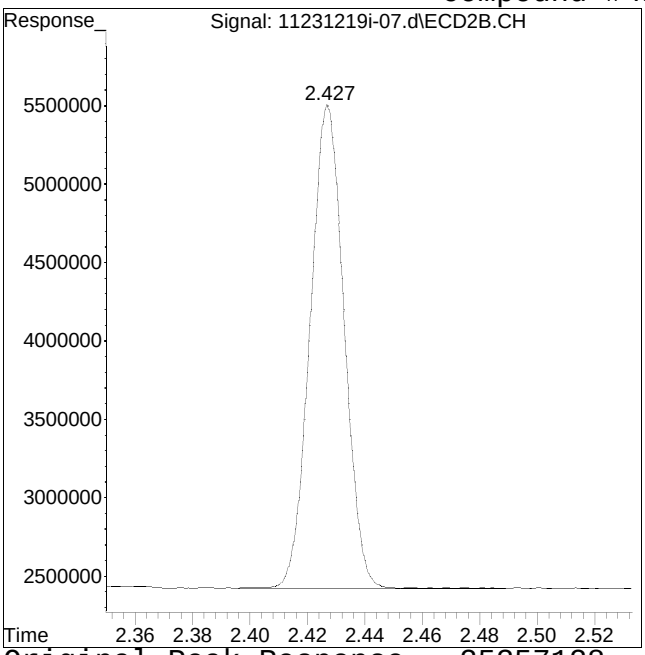


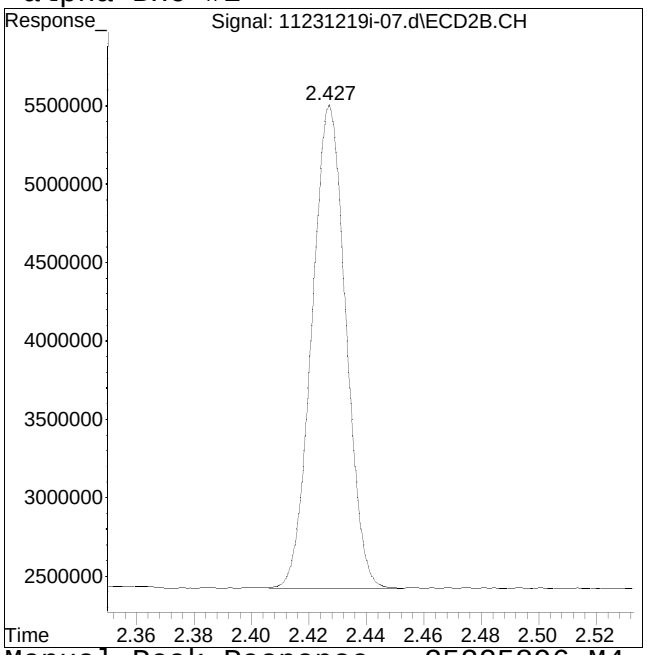
Original Peak Response = 17031132 Manual Peak Response = 17081266 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-07.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 2:35 pm Instrument : Pest 11
Sample : il5pest,42e,,pp 11402 L0.0Quant Date : 12/20/2023 5:45 pm

Compound #42: alpha-BHC #2



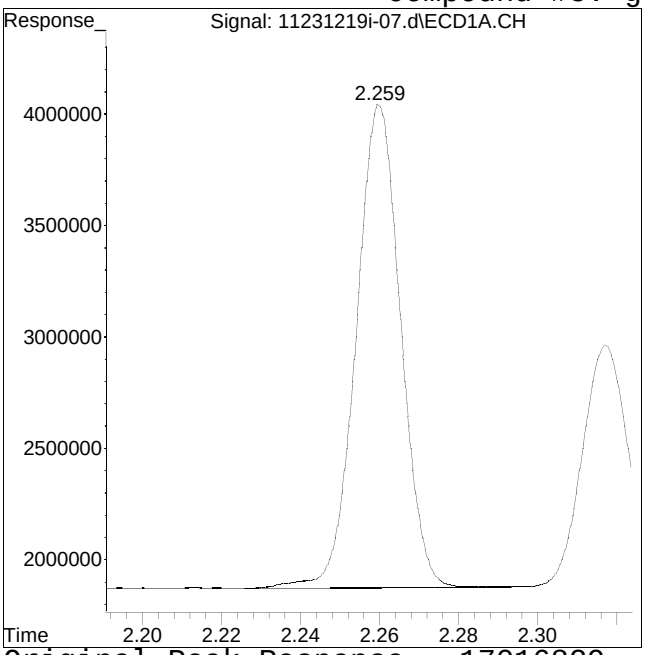


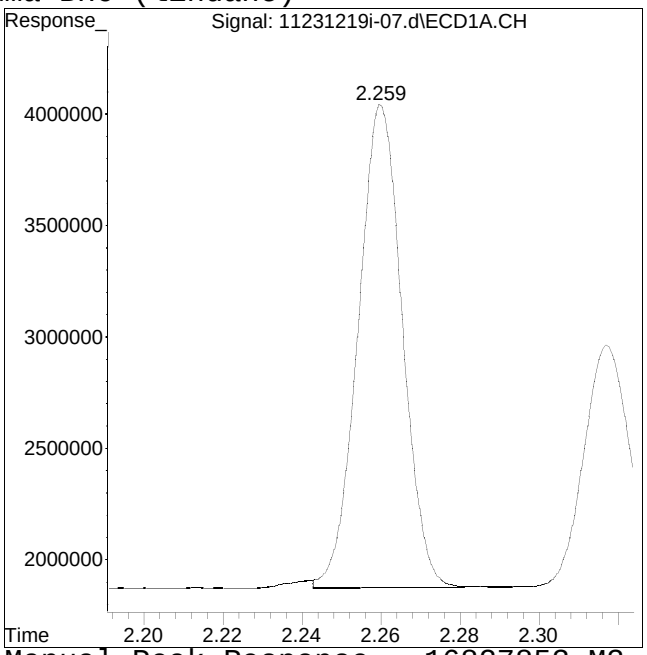
Original Peak Response = 25357128 Manual Peak Response = 25225896 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-07.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 2:35 pm Instrument : Pest 11
Sample : il5pest,42e,,pp 11402 L0.0Quant Date : 12/20/2023 5:45 pm

Compound #5: gamma-BHC (lindane)



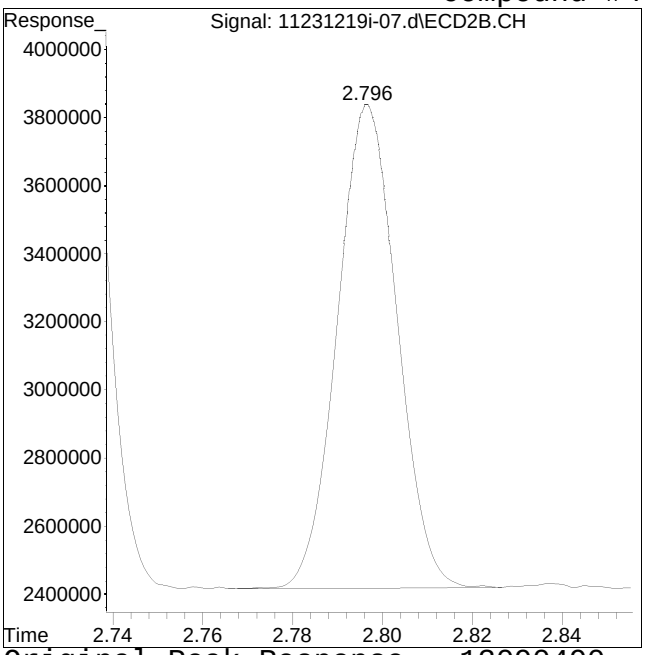


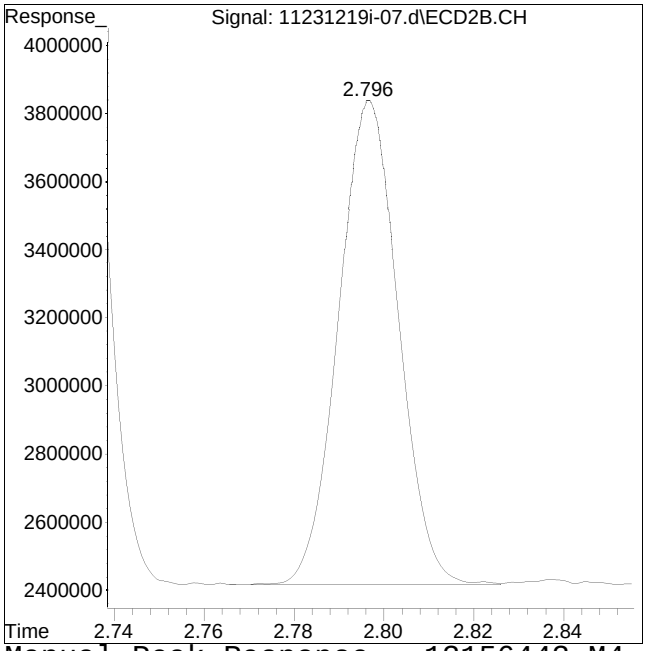
Original Peak Response = 17016829 Manual Peak Response = 16827853 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-07.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 2:35 pm Instrument : Pest 11
Sample : il5pest,42e,,pp 11402 L0.0Quant Date : 12/20/2023 5:45 pm

Compound #44: beta-BHC #2



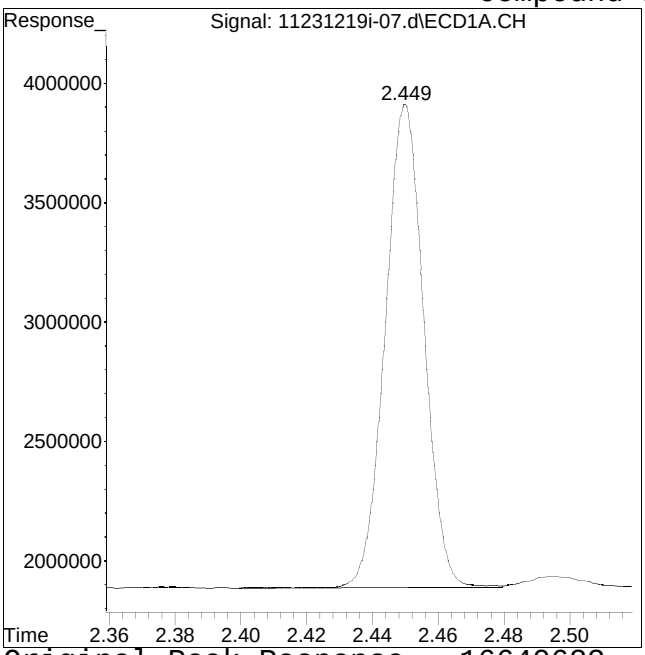


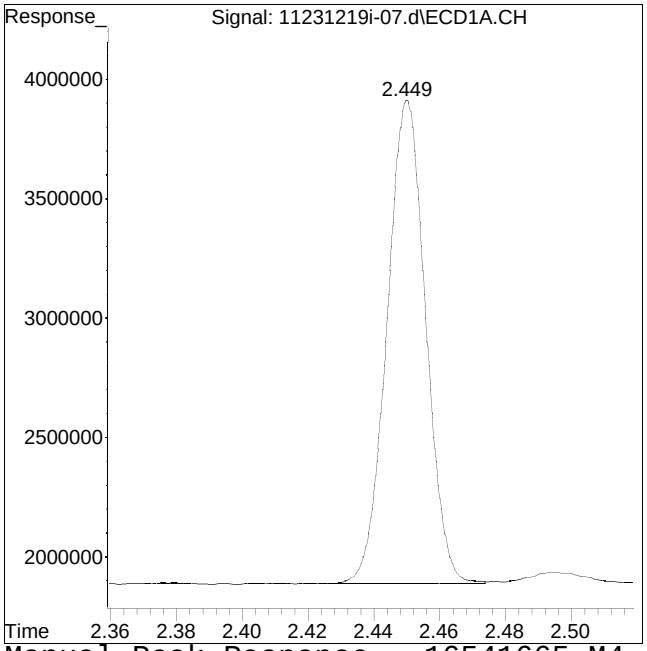
Original Peak Response = 13090490 Manual Peak Response = 13156443 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-07.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 2:35 pm Instrument : Pest 11
Sample : il5pest,42e,,pp 11402 L0.0Quant Date : 12/20/2023 5:45 pm

Compound #7: delta-BHC



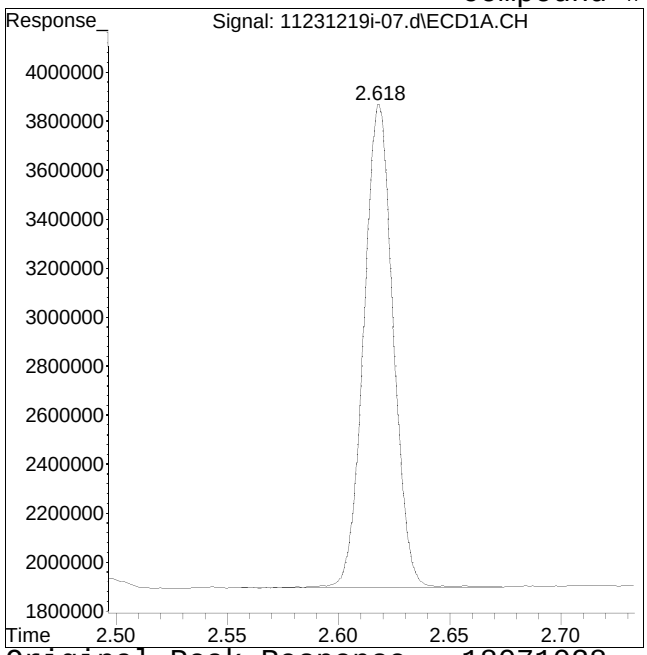


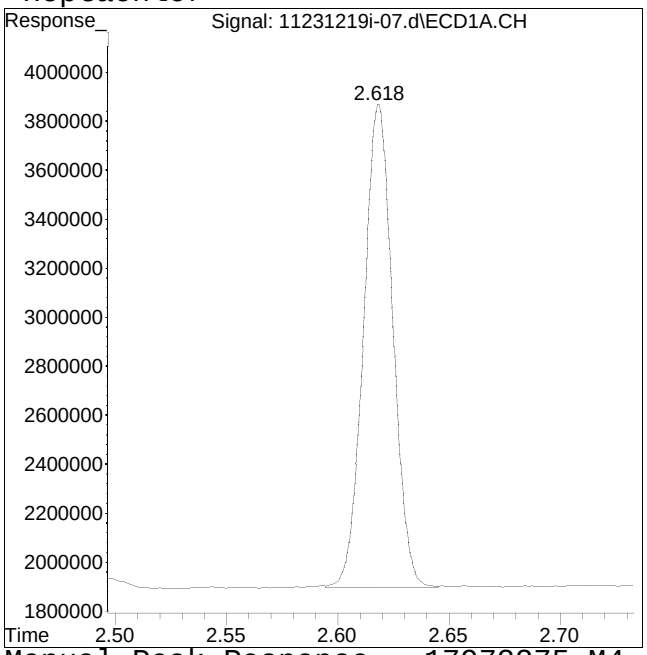
Original Peak Response = 16640622 Manual Peak Response = 16541665 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-07.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 2:35 pm Instrument : Pest 11
Sample : il5pest,42e,,pp 11402 L0.0Quant Date : 12/20/2023 5:45 pm

Compound #8: Heptachlor



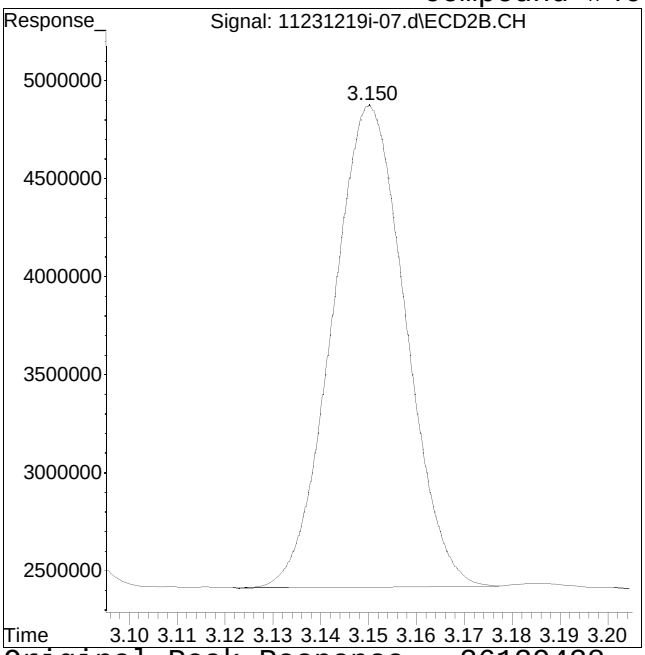


Original Peak Response = 18071028 Manual Peak Response = 17972275 M4
M4 = Poor automated baseline construction.

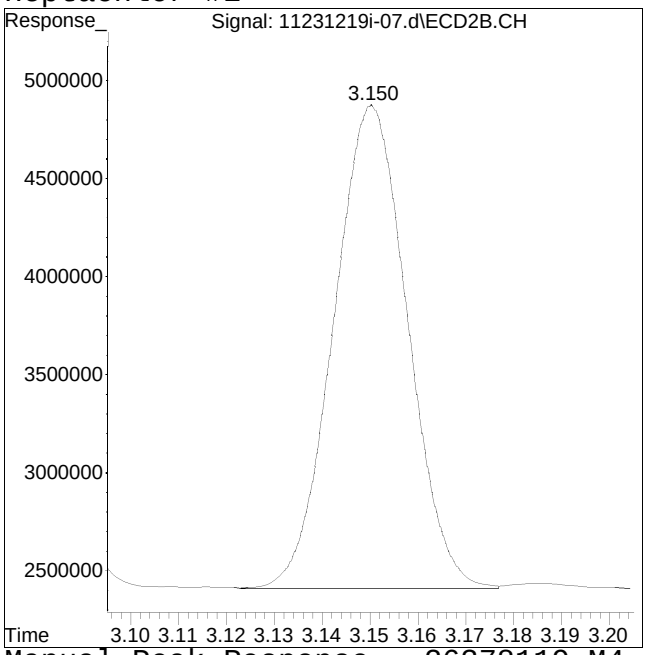
Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-07.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 2:35 pm Instrument : Pest 11
Sample : il5pest,42e,,pp 11402 L0.0Quant Date : 12/20/2023 5:45 pm

Compound #46: Heptachlor #2



Original Peak Response = 26139438



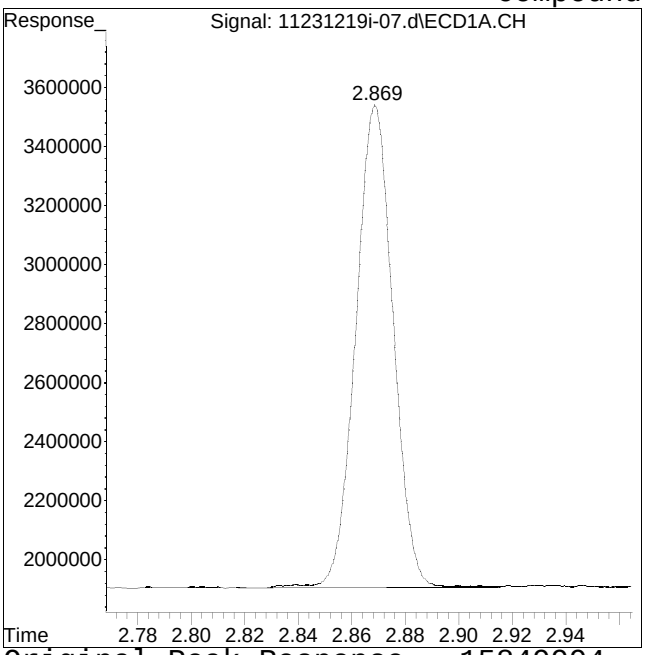
Manual Peak Response = 26378119 M4

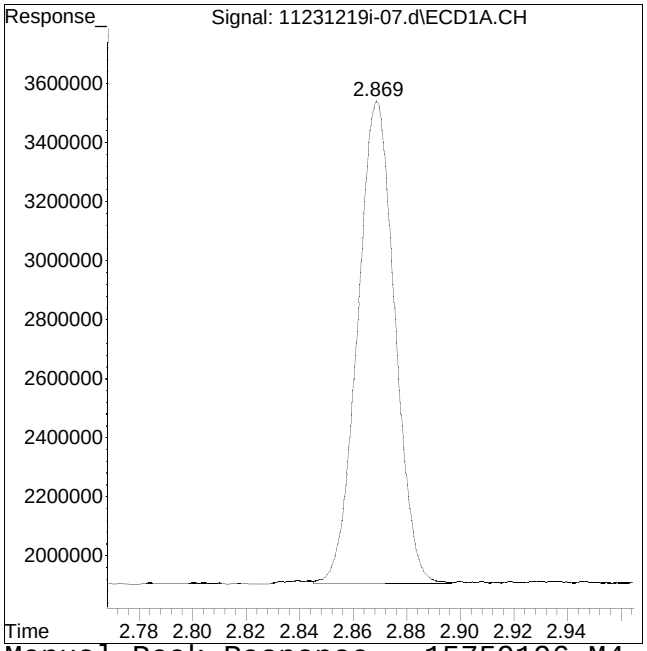
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-07.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 2:35 pm Instrument : Pest 11
Sample : il5pest,42e,,pp 11402 L0.0Quant Date : 12/20/2023 5:45 pm

Compound #9: Aldrin



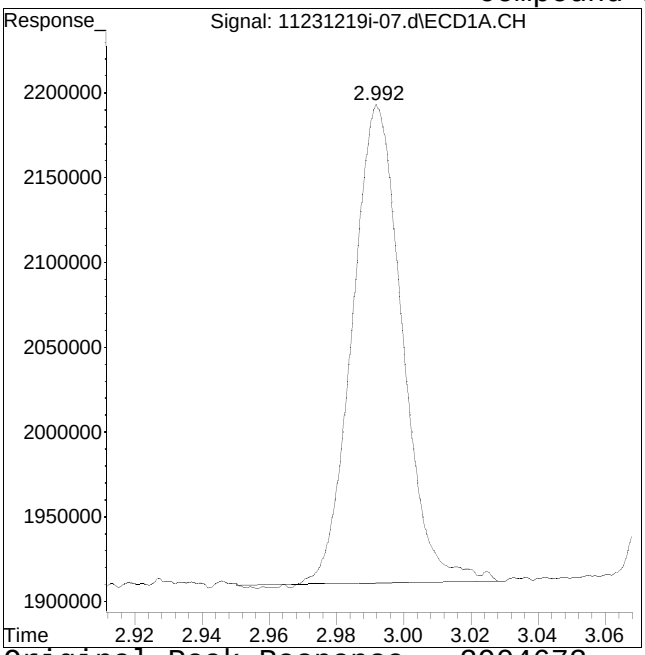


Original Peak Response = 15849994 Manual Peak Response = 15759196 M4
M4 = Poor automated baseline construction.

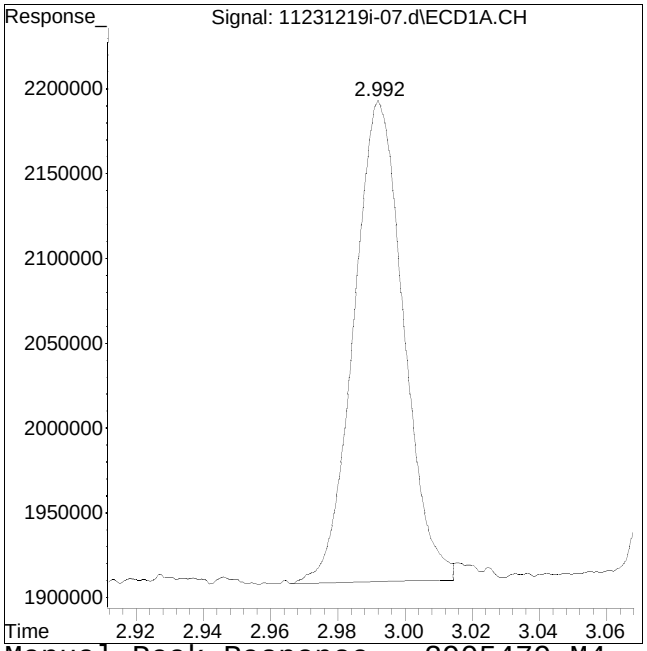
Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-07.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 2:35 pm Instrument : Pest 11
Sample : il5pest,42e,,pp 11402 L0.0Quant Date : 12/20/2023 5:45 pm

Compound #10: Alachlor



Original Peak Response = 2904673



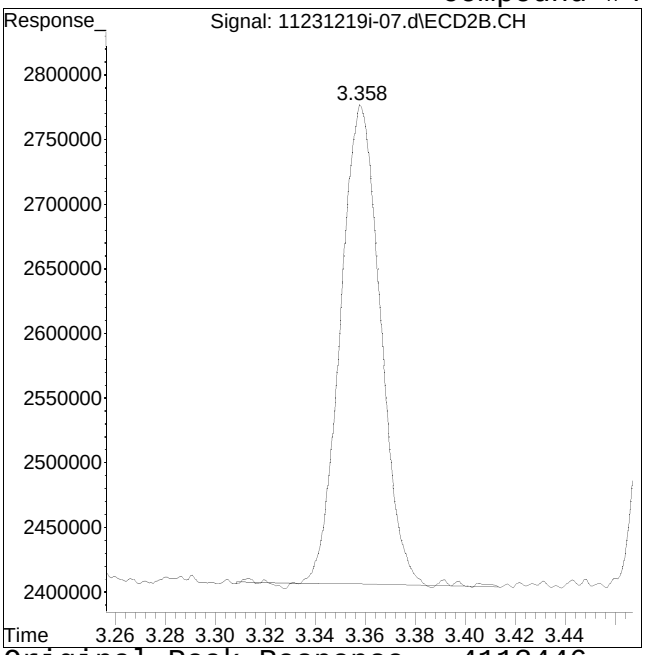
Manual Peak Response = 2905479 M4

M4 = Poor automated baseline construction.

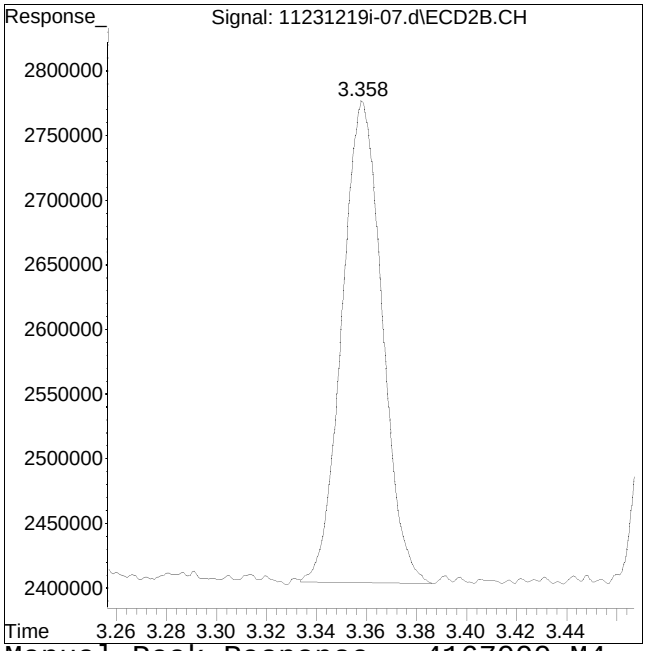
Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-07.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 2:35 pm Instrument : Pest 11
Sample : il5pest,42e,,pp 11402 L0.0Quant Date : 12/20/2023 5:45 pm

Compound #48: Alachlor #2



Original Peak Response = 4113446



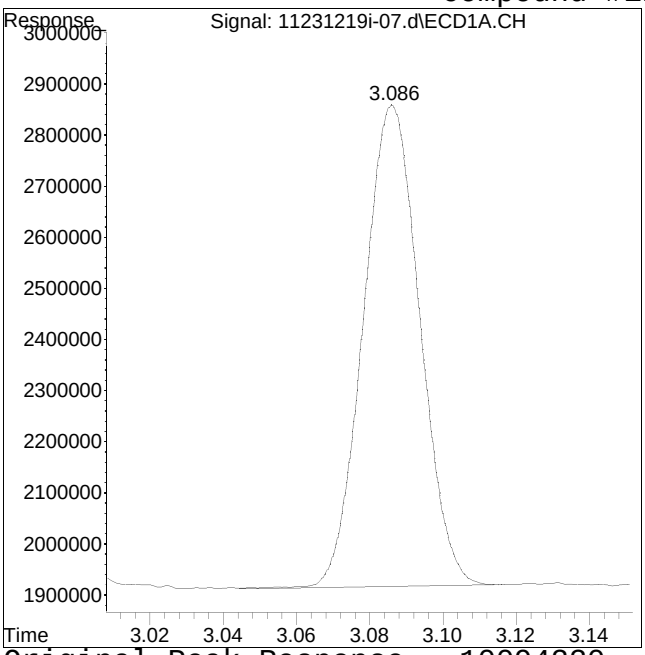
Manual Peak Response = 4167000 M4

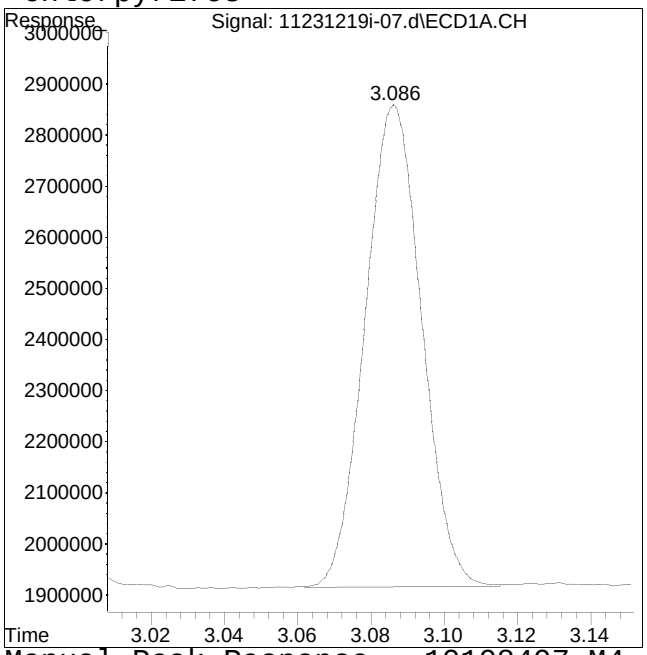
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-07.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 2:35 pm Instrument : Pest 11
Sample : il5pest,42e,,pp 11402 L0.0Quant Date : 12/20/2023 5:45 pm

Compound #11: Chlorpyrifos



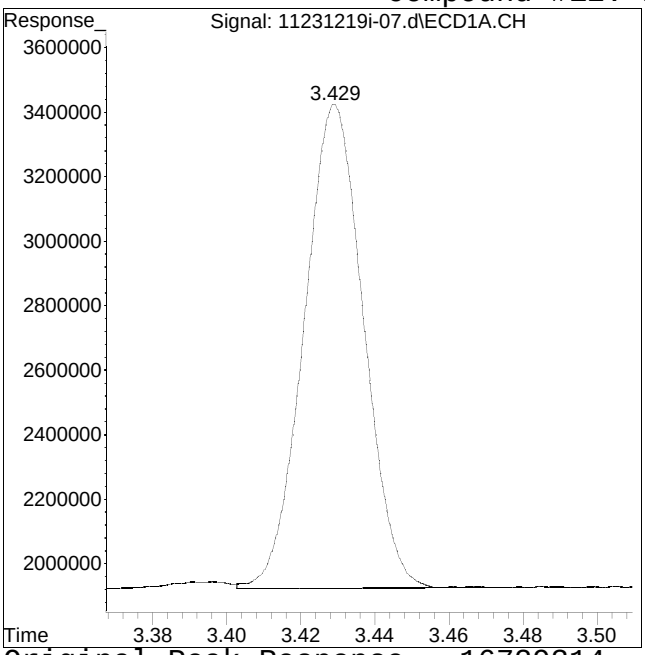


Original Peak Response = 10094230 Manual Peak Response = 10108497 M4
M4 = Poor automated baseline construction.

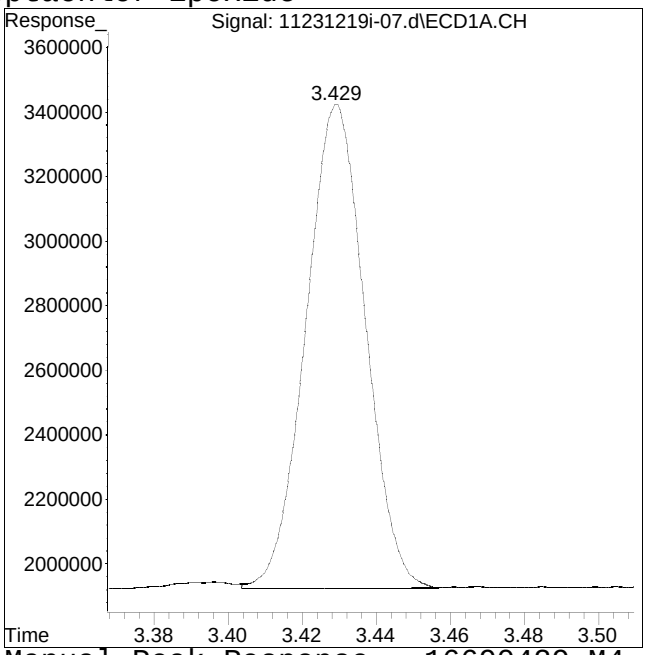
Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-07.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 2:35 pm Instrument : Pest 11
Sample : il5pest,42e,,pp 11402 L0.0Quant Date : 12/20/2023 5:45 pm

Compound #12: Heptachlor Epoxide



Original Peak Response = 16729314



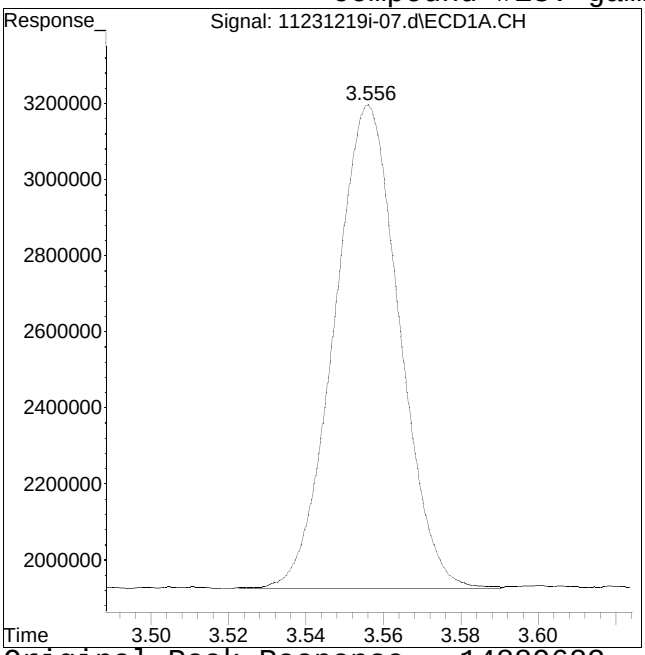
Manual Peak Response = 16690429 M4

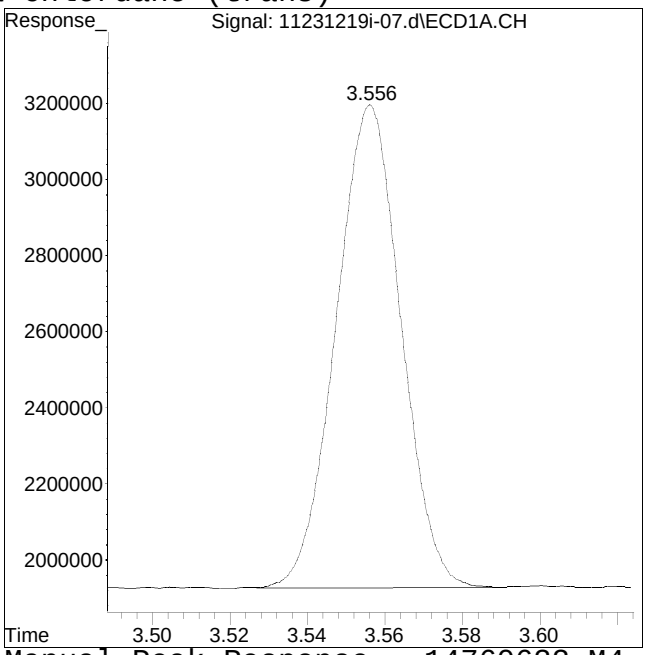
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-07.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 2:35 pm Instrument : Pest 11
Sample : il5pest,42e,,pp 11402 L0.0Quant Date : 12/20/2023 5:45 pm

Compound #13: gamma-Chlordane (trans)



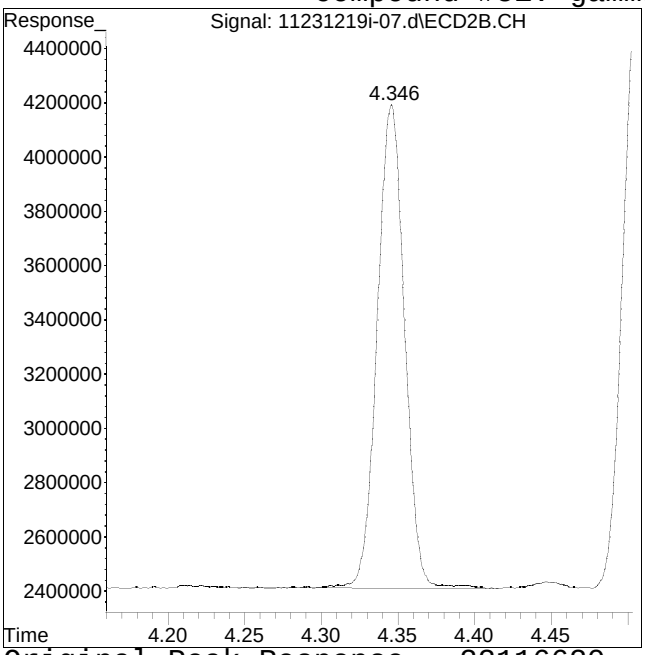


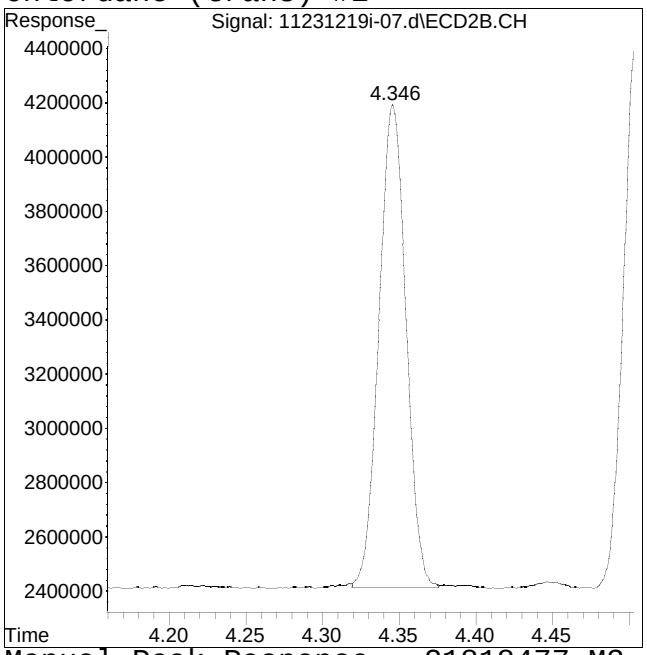
Original Peak Response = 14889622 Manual Peak Response = 14760632 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-07.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 2:35 pm Instrument : Pest 11
Sample : il5pest,42e,,pp 11402 L0.0Quant Date : 12/20/2023 5:45 pm

Compound #51: gamma-Chlordane (trans) #2



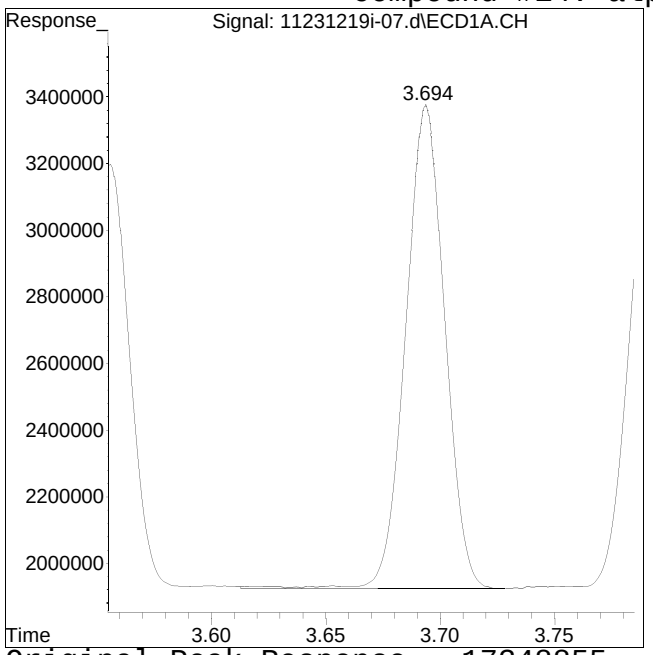


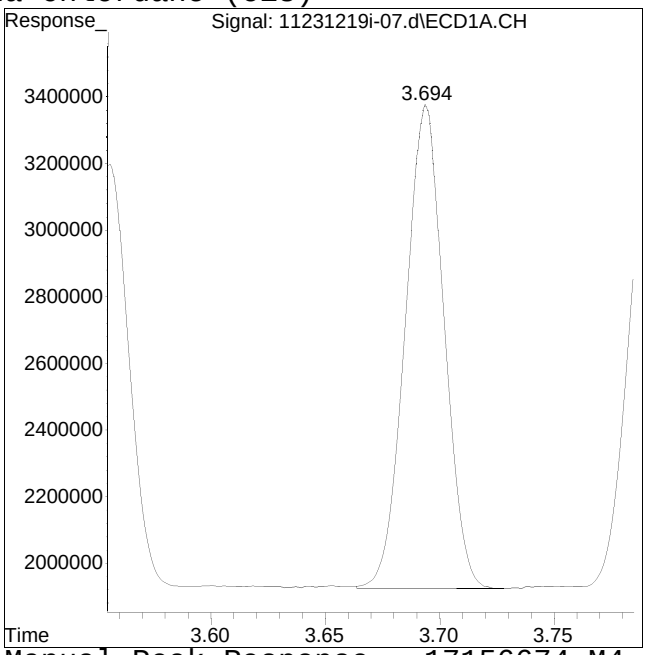
Original Peak Response = 22116620 Manual Peak Response = 21818477 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-07.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 2:35 pm Instrument : Pest 11
Sample : il5pest,42e,,pp 11402 L0.0Quant Date : 12/20/2023 5:45 pm

Compound #14: alpha-Chlordane (cis)



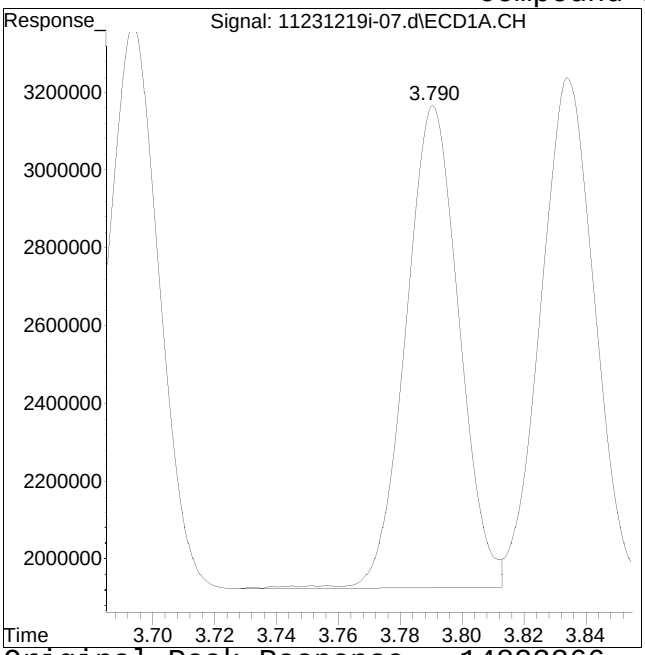


Original Peak Response = 17348855 Manual Peak Response = 17156674 M4
M4 = Poor automated baseline construction.

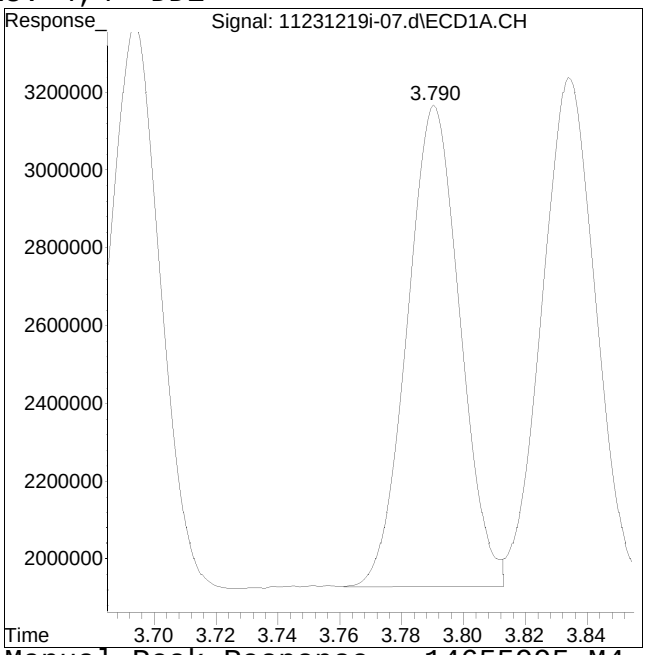
Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-07.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 2:35 pm Instrument : Pest 11
Sample : il5pest,42e,,pp 11402 L0.0Quant Date : 12/20/2023 5:45 pm

Compound #15: 4,4'-DDE



Original Peak Response = 14822366



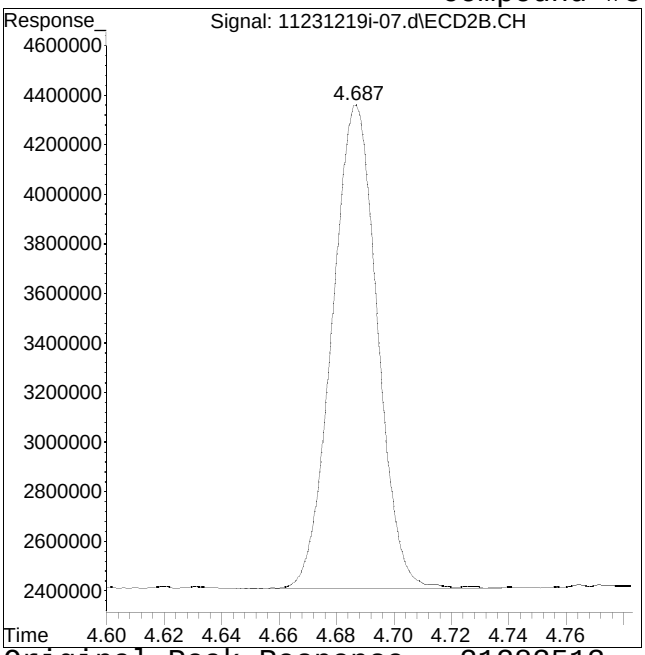
Manual Peak Response = 14655995 M4

M4 = Poor automated baseline construction.

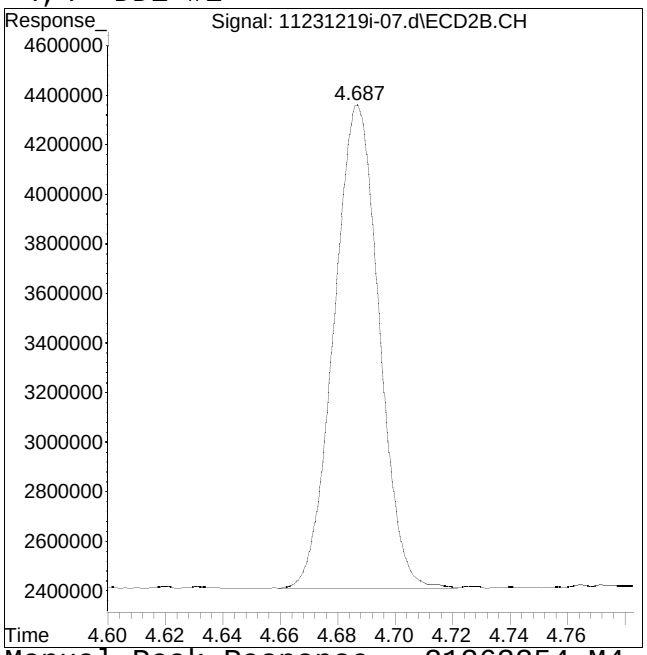
Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-07.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 2:35 pm Instrument : Pest 11
Sample : il5pest,42e,,pp 11402 L0.0Quant Date : 12/20/2023 5:45 pm

Compound #53: 4,4'-DDE #2



Original Peak Response = 21283513



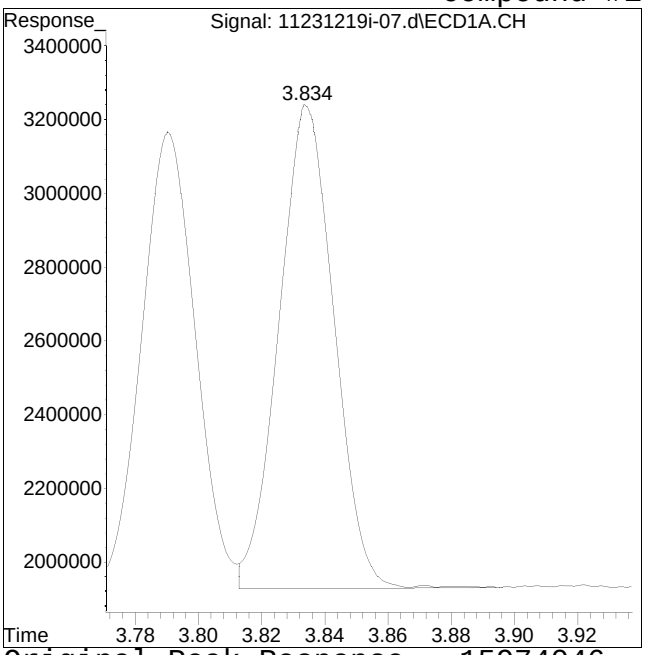
Manual Peak Response = 21263354 M4

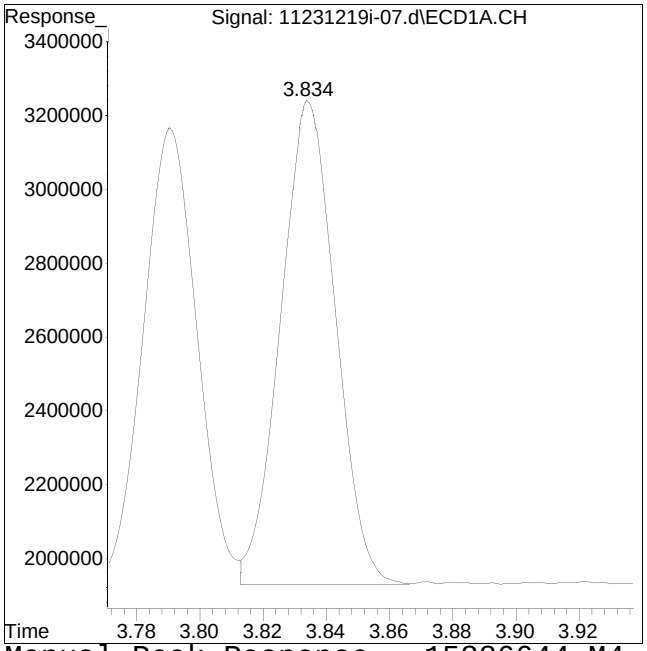
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-07.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 2:35 pm Instrument : Pest 11
Sample : il5pest,42e,,pp 11402 L0.0Quant Date : 12/20/2023 5:45 pm

Compound #16: Endosulfan I



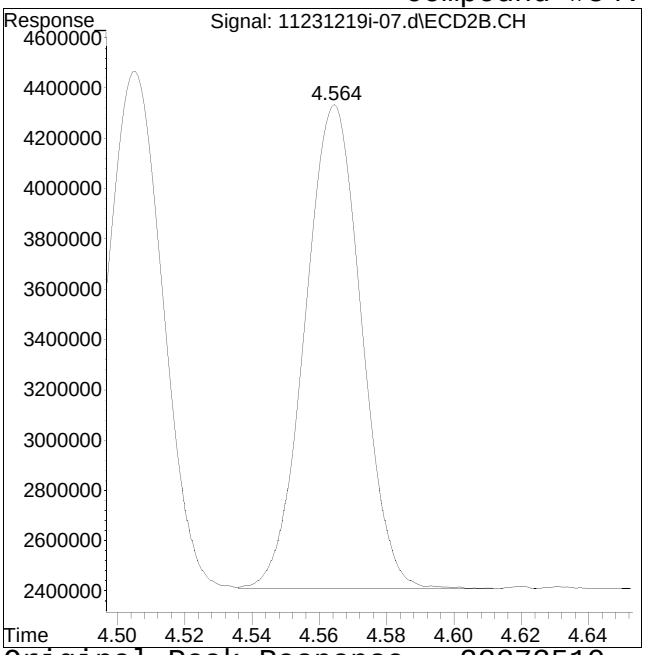


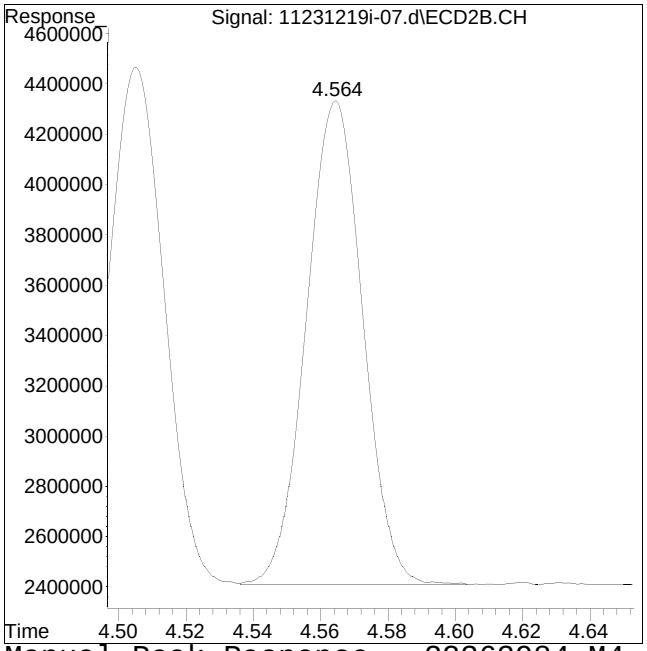
Original Peak Response = 15974046 Manual Peak Response = 15886644 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-07.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 2:35 pm Instrument : Pest 11
Sample : il5pest,42e,,pp 11402 L0.0Quant Date : 12/20/2023 5:45 pm

Compound #54: Endosulfan I #2



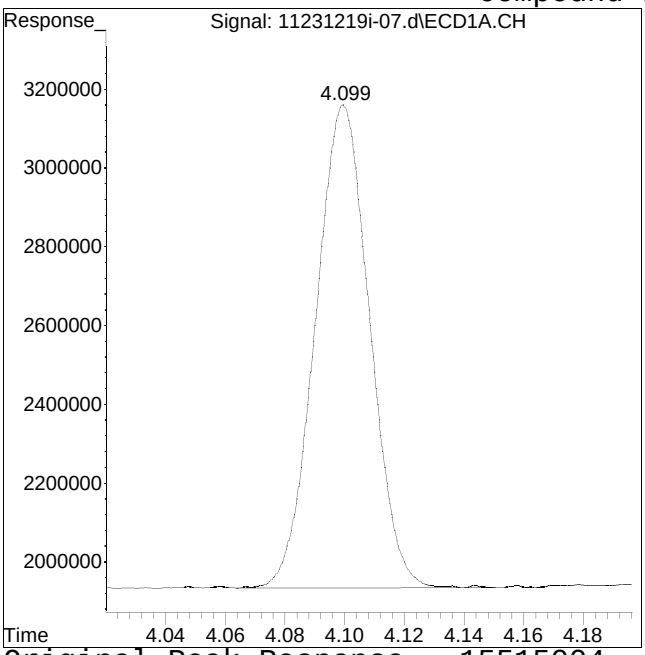


Original Peak Response = 22373510 Manual Peak Response = 22363984 M4
M4 = Poor automated baseline construction.

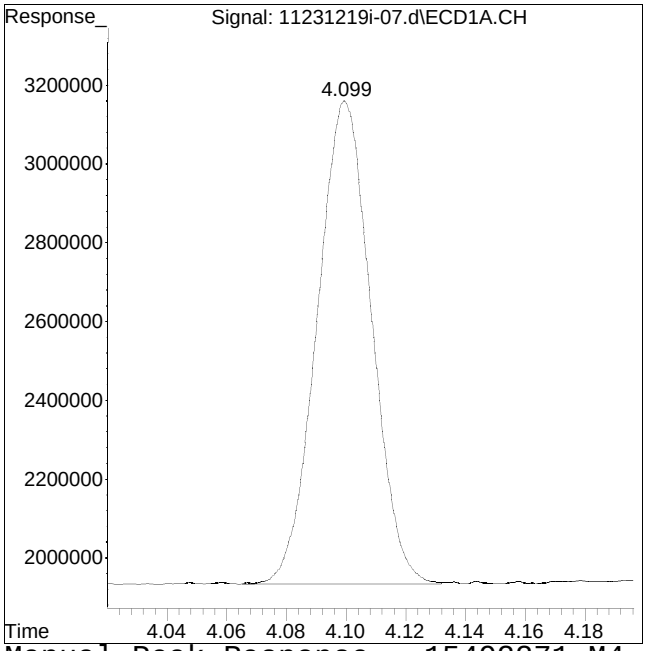
Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-07.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 2:35 pm Instrument : Pest 11
Sample : il5pest,42e,,pp 11402 L0.0Quant Date : 12/20/2023 5:45 pm

Compound #17: Dieldrin



Original Peak Response = 15515004



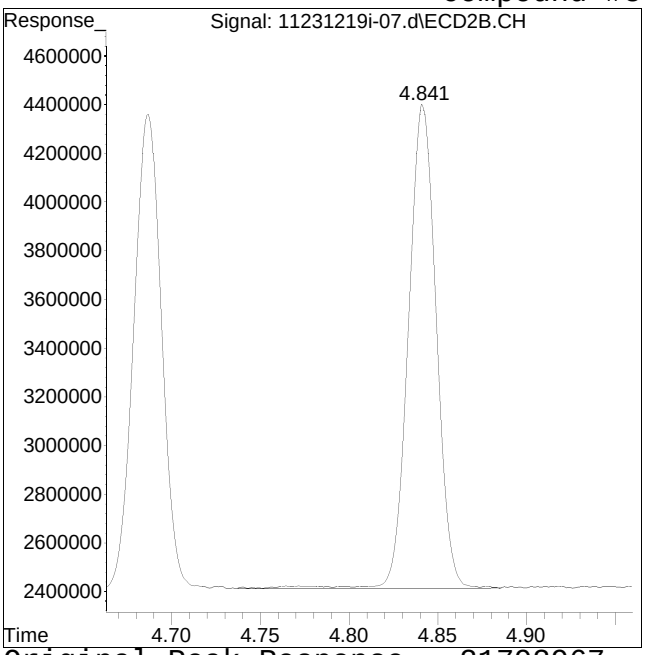
Manual Peak Response = 15492271 M4

M4 = Poor automated baseline construction.

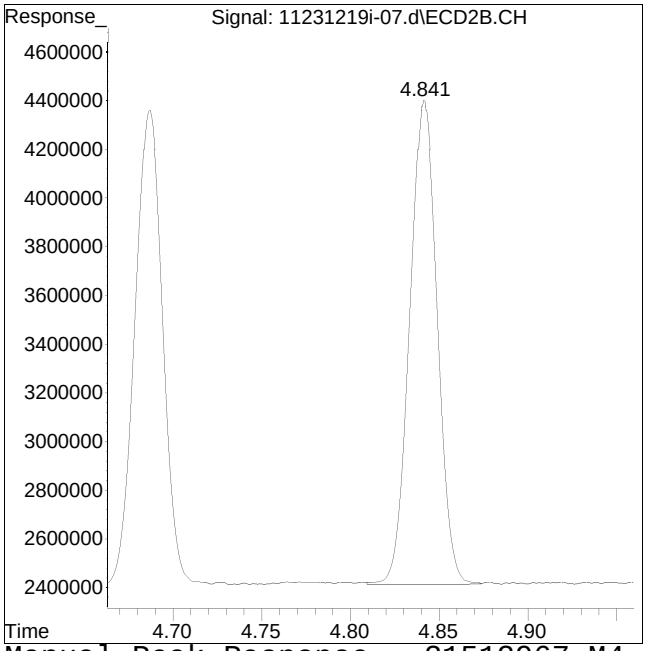
Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-07.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 2:35 pm Instrument : Pest 11
Sample : il5pest,42e,,pp 11402 L0.0Quant Date : 12/20/2023 5:45 pm

Compound #55: Dieldrin #2



Original Peak Response = 21792967



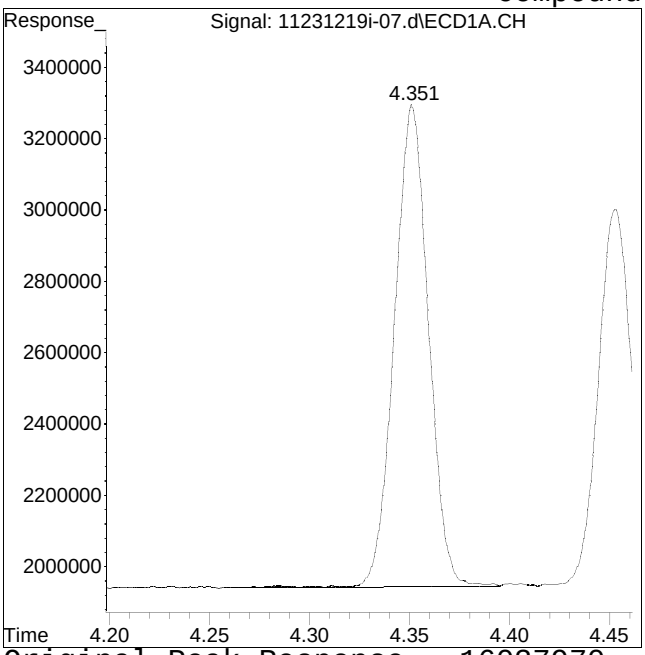
Manual Peak Response = 21512967 M4

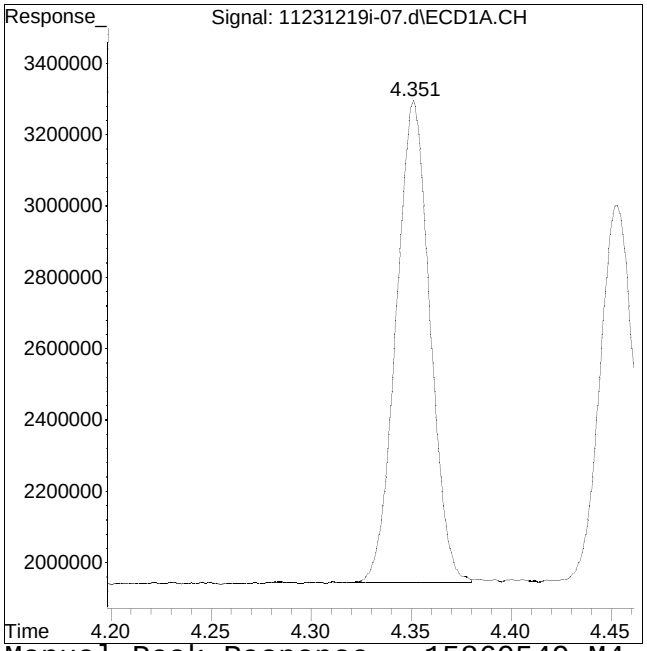
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-07.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 2:35 pm Instrument : Pest 11
Sample : il5pest,42e,,pp 11402 L0.0Quant Date : 12/20/2023 5:45 pm

Compound #18: Endrin



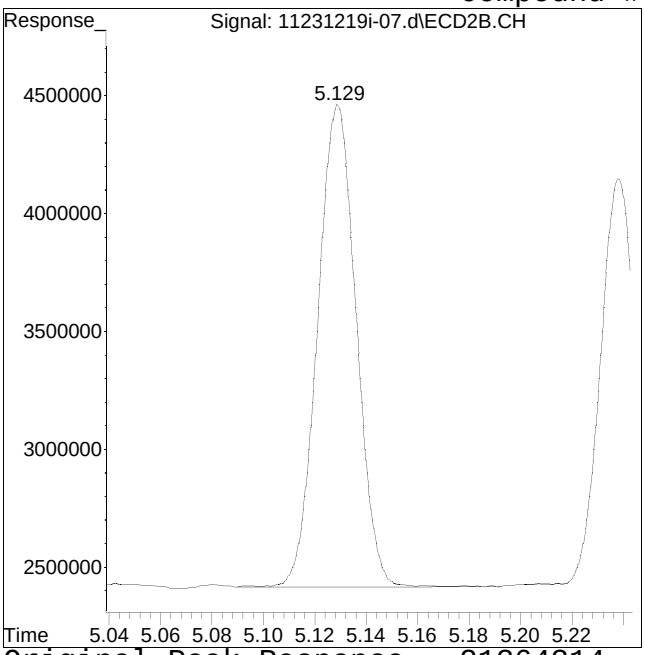


Original Peak Response = 16037970 Manual Peak Response = 15860549 M4
M4 = Poor automated baseline construction.

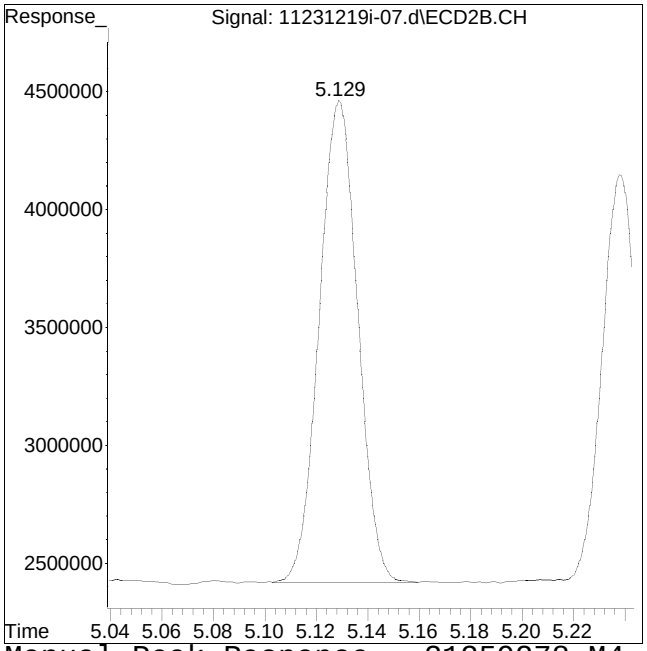
Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-07.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 2:35 pm Instrument : Pest 11
Sample : il5pest,42e,,pp 11402 L0.0Quant Date : 12/20/2023 5:45 pm

Compound #56: Endrin #2



Original Peak Response = 21364314



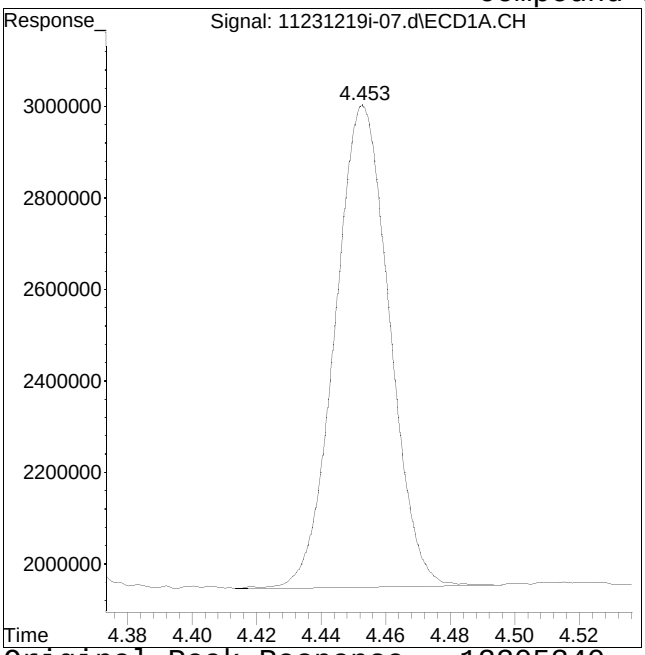
Manual Peak Response = 21259278 M4

M4 = Poor automated baseline construction.

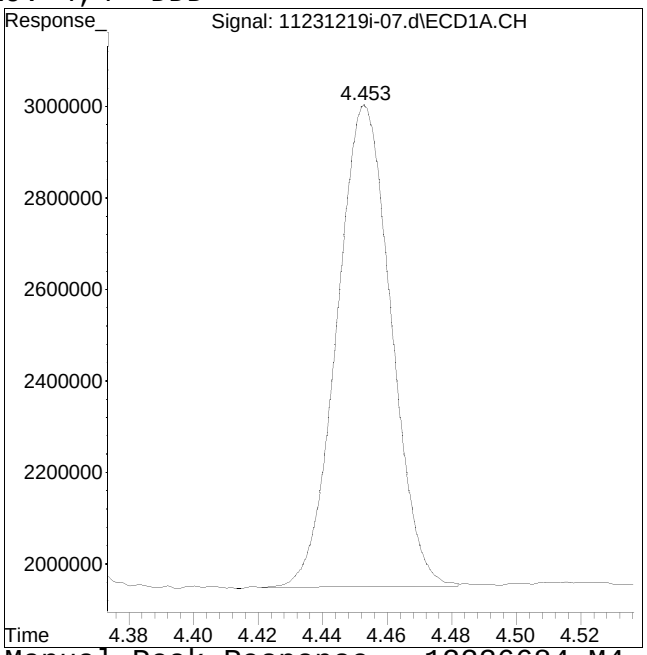
Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-07.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 2:35 pm Instrument : Pest 11
Sample : il5pest,42e,,pp 11402 L0.0Quant Date : 12/20/2023 5:45 pm

Compound #19: 4,4'-DDD



Original Peak Response = 12305340

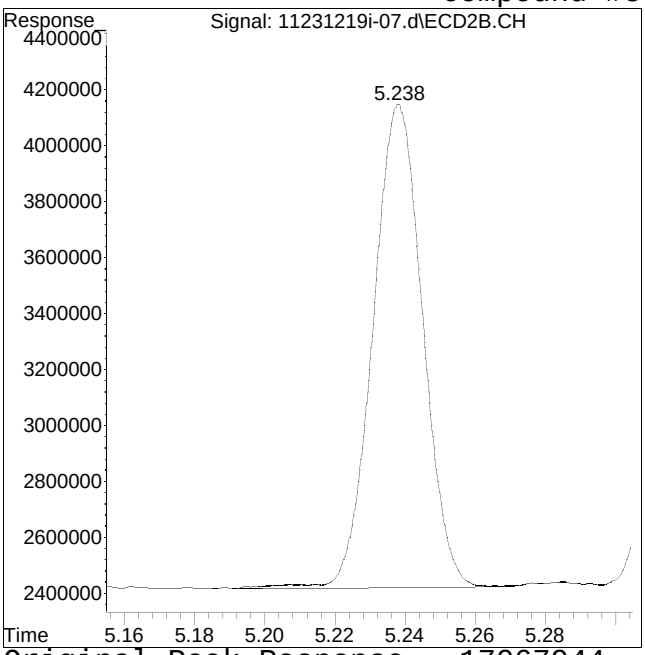


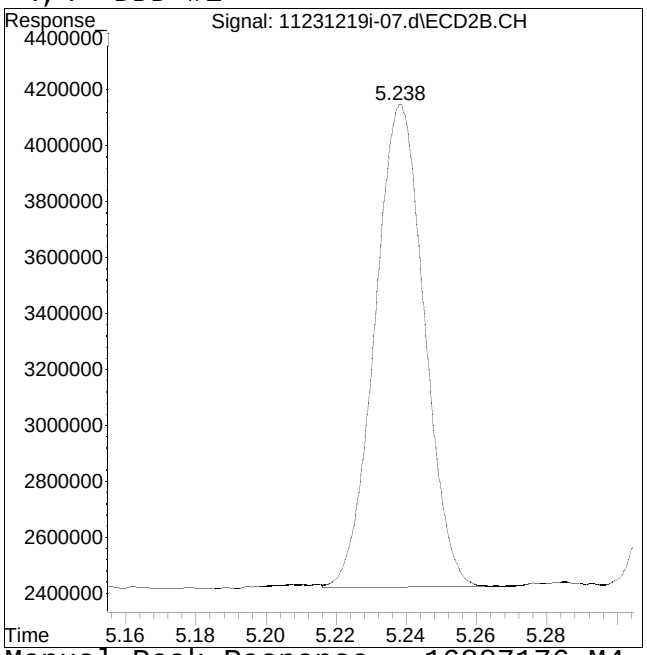
Manual Peak Response = 12236684 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-07.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 2:35 pm Instrument : Pest 11
Sample : il5pest,42e,,pp 11402 L0.0Quant Date : 12/20/2023 5:45 pm

Compound #57: 4,4'-DDD #2



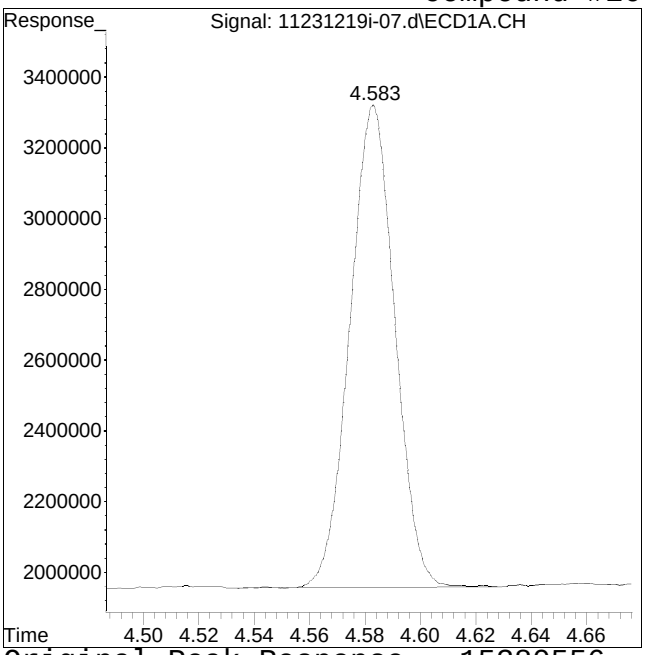


Original Peak Response = 17067944 Manual Peak Response = 16887176 M4
M4 = Poor automated baseline construction.

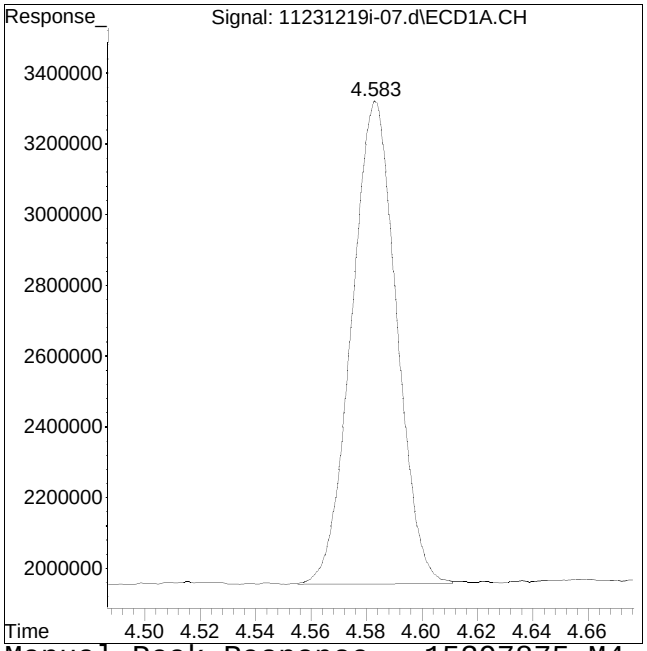
Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-07.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 2:35 pm Instrument : Pest 11
Sample : il5pest,42e,,pp 11402 L0.0Quant Date : 12/20/2023 5:45 pm

Compound #20: Endosulfan II



Original Peak Response = 15380556



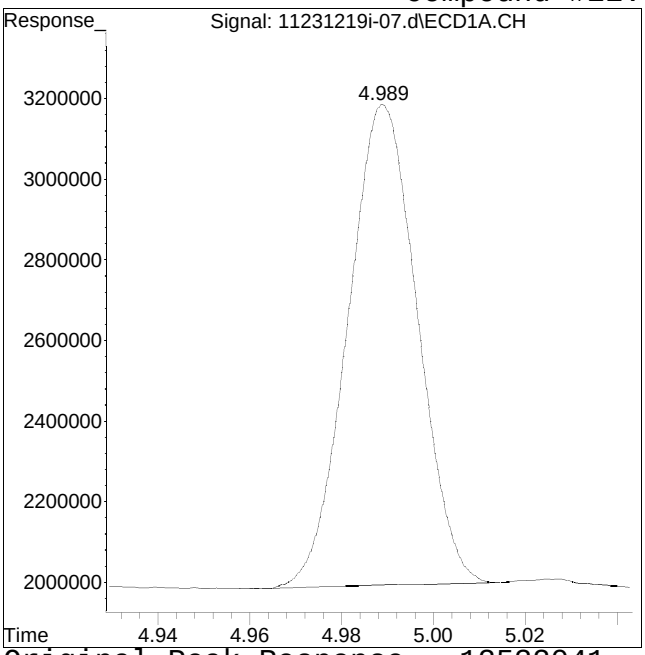
Manual Peak Response = 15397875 M4

M4 = Poor automated baseline construction.

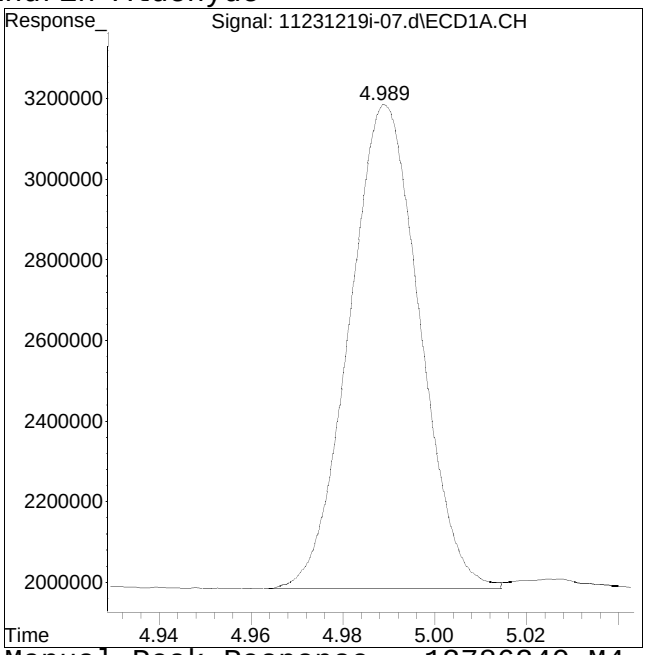
Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-07.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 2:35 pm Instrument : Pest 11
Sample : il5pest,42e,,pp 11402 L0.0Quant Date : 12/20/2023 5:45 pm

Compound #22: Endrin Aldehyde



Original Peak Response = 12532041



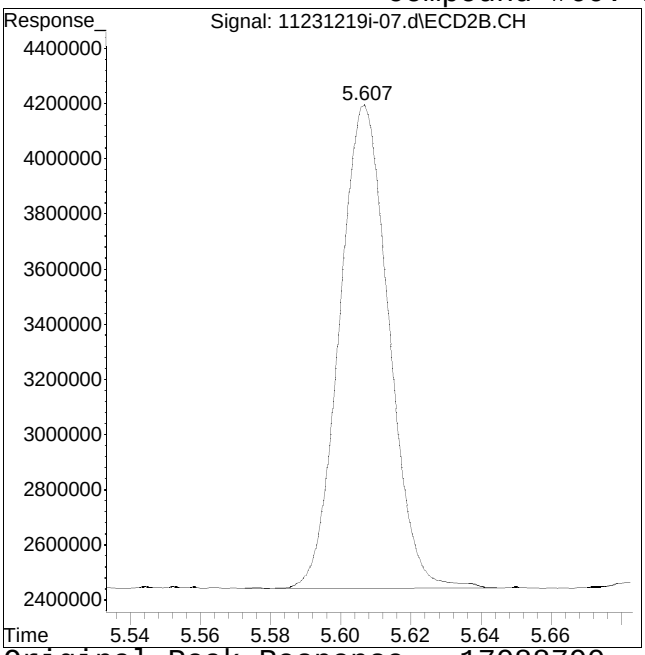
Manual Peak Response = 12786240 M4

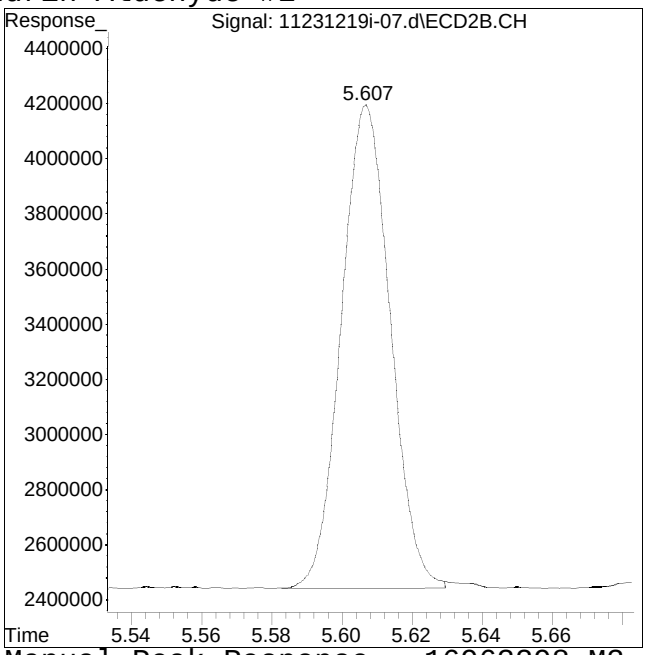
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-07.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 2:35 pm Instrument : Pest 11
Sample : il5pest,42e,,pp 11402 L0.0Quant Date : 12/20/2023 5:45 pm

Compound #60: Endrin Aldehyde #2



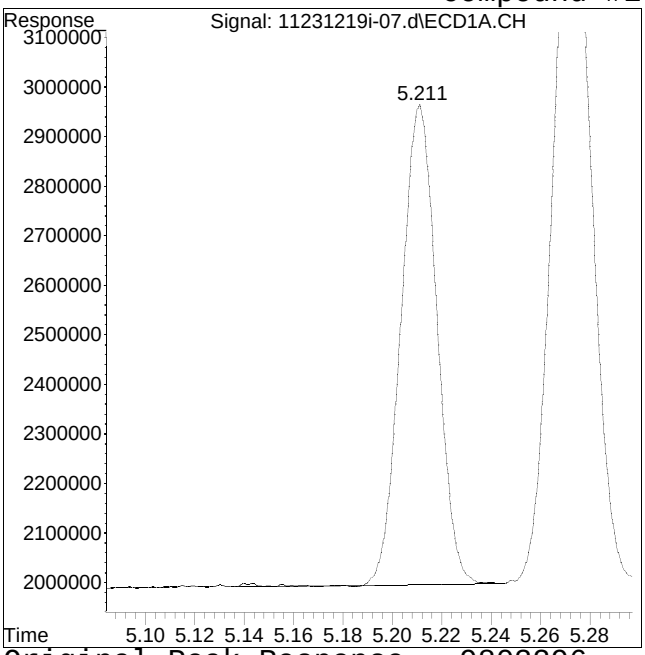


Original Peak Response = 17088790 Manual Peak Response = 16963298 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

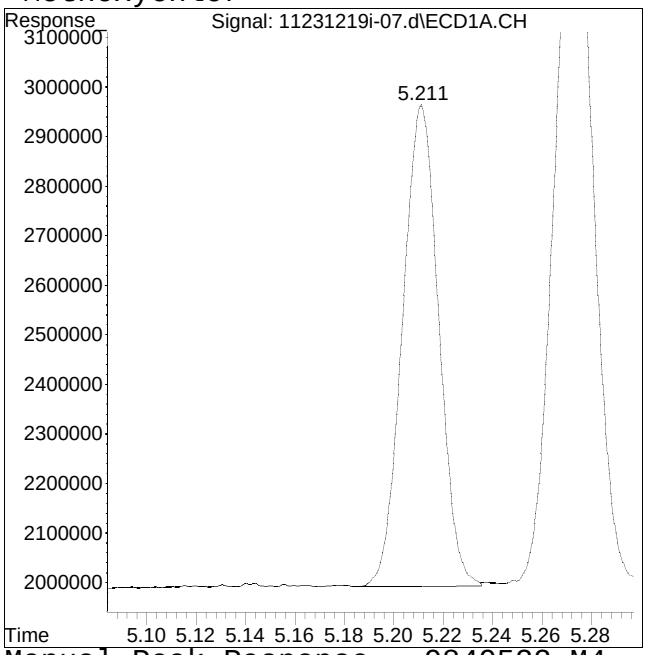
Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-07.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 2:35 pm Instrument : Pest 11
Sample : il5pest,42e,,pp 11402 L0.0Quant Date : 12/20/2023 5:45 pm

Compound #23: Methoxychlor



Original Peak Response = 9803296



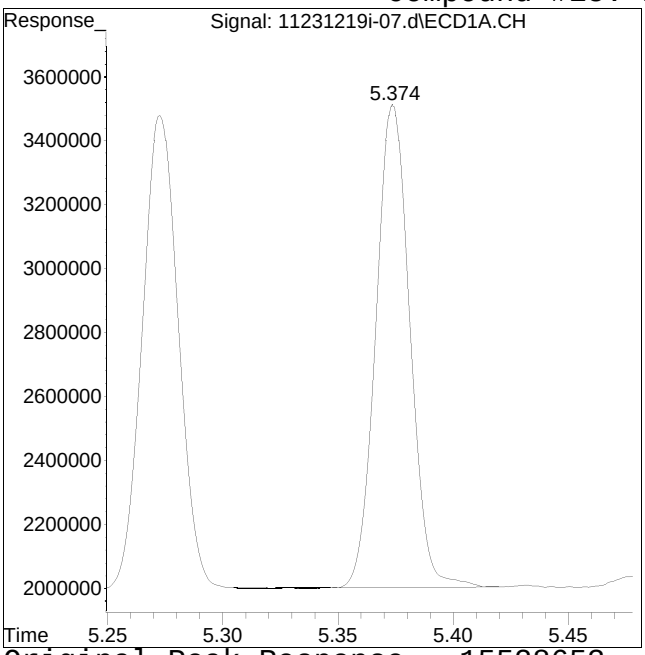
Manual Peak Response = 9849522 M4

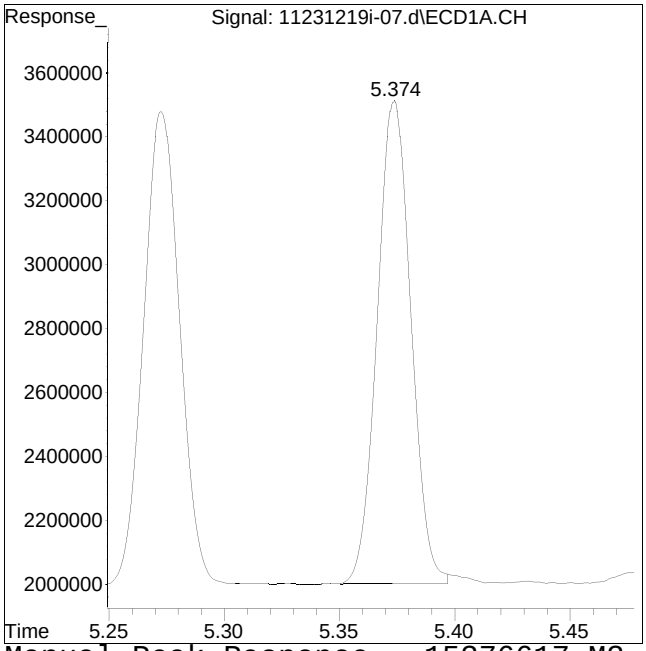
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-07.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 2:35 pm Instrument : Pest 11
Sample : il5pest,42e,,pp 11402 L0.0Quant Date : 12/20/2023 5:45 pm

Compound #25: Endosulfan Sulfate



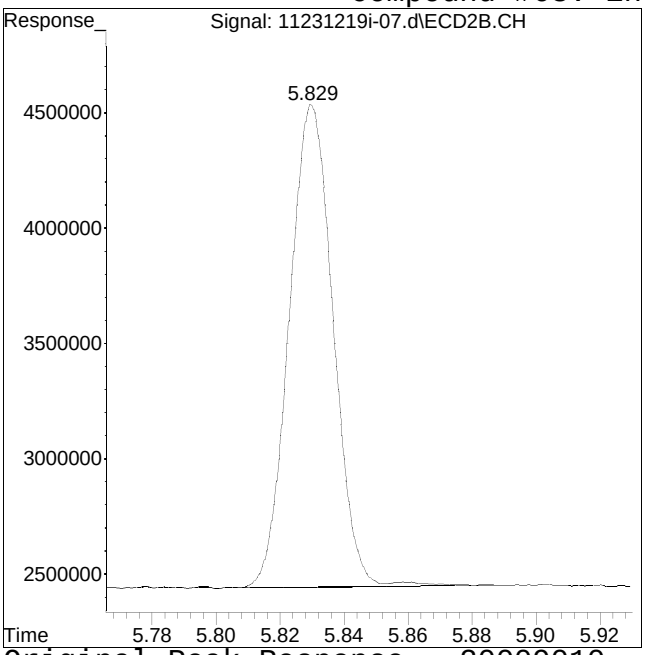


Original Peak Response = 15528653 Manual Peak Response = 15376617 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

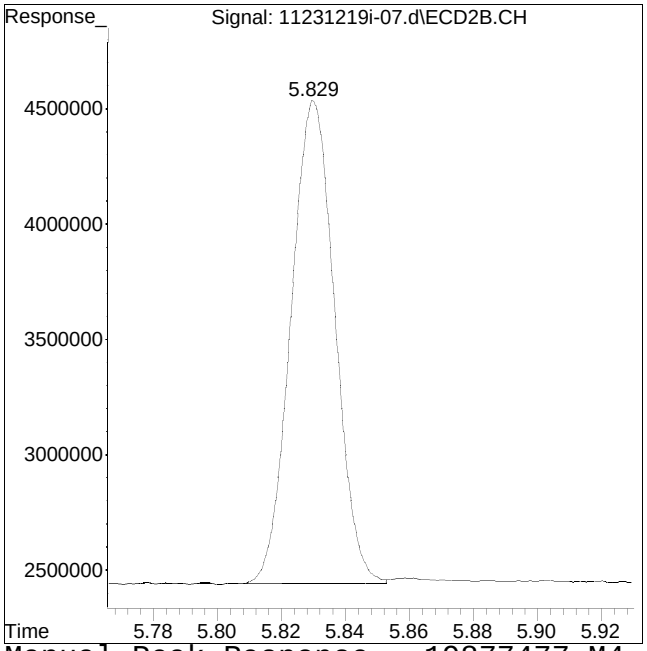
Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-07.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 2:35 pm Instrument : Pest 11
Sample : il5pest,42e,,pp 11402 L0.0Quant Date : 12/20/2023 5:45 pm

Compound #63: Endosulfan Sulfate #2



Original Peak Response = 20009010



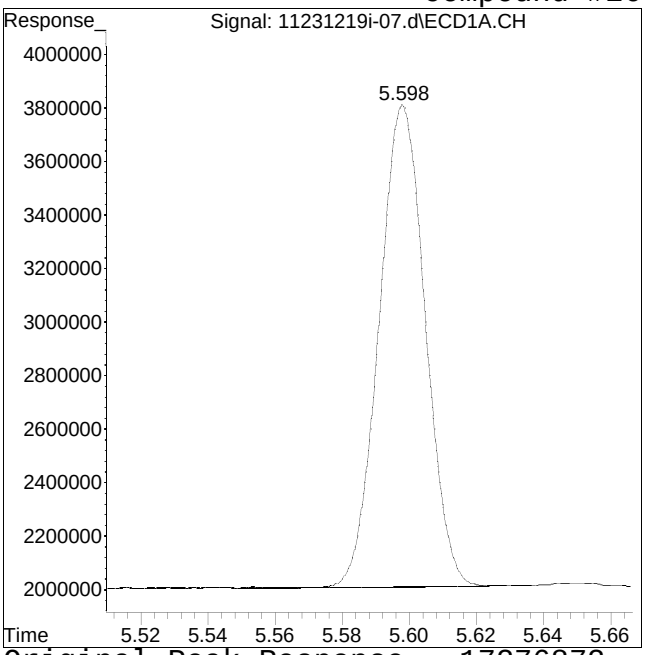
Manual Peak Response = 19877477 M4

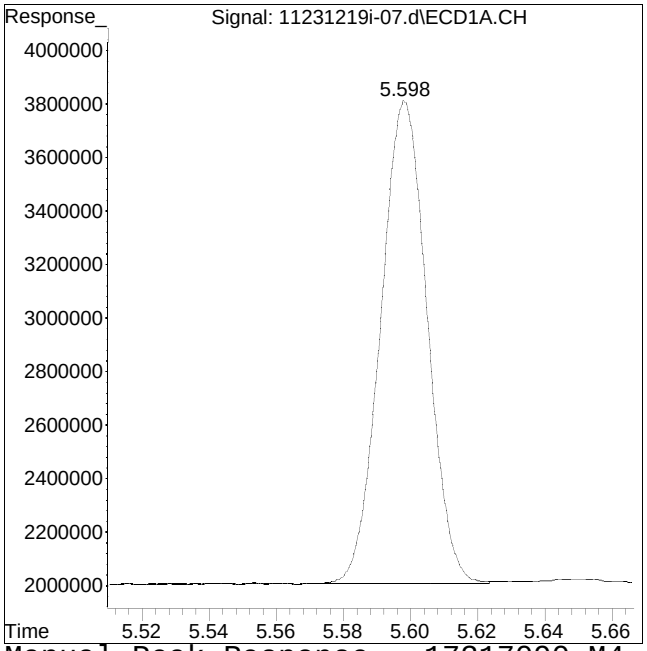
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-07.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 2:35 pm Instrument : Pest 11
Sample : il5pest,42e,,pp 11402 L0.0Quant Date : 12/20/2023 5:45 pm

Compound #26: Endrin Ketone



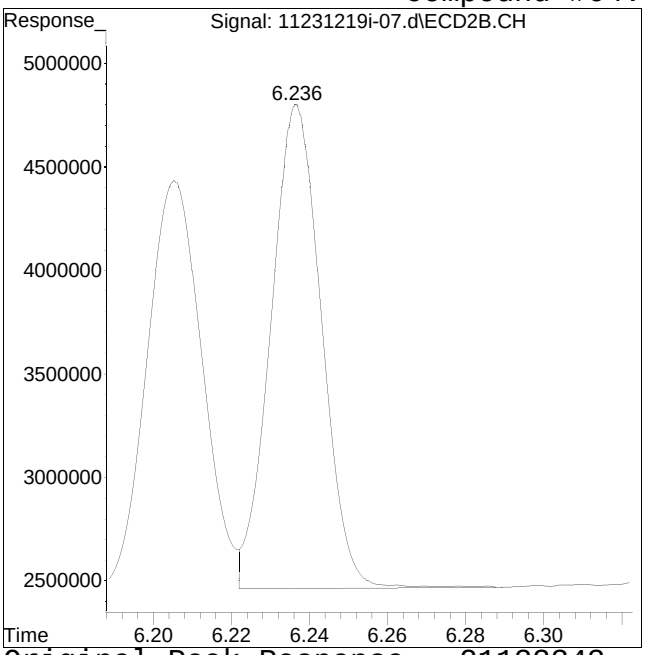


Original Peak Response = 17276872 Manual Peak Response = 17317090 M4
M4 = Poor automated baseline construction.

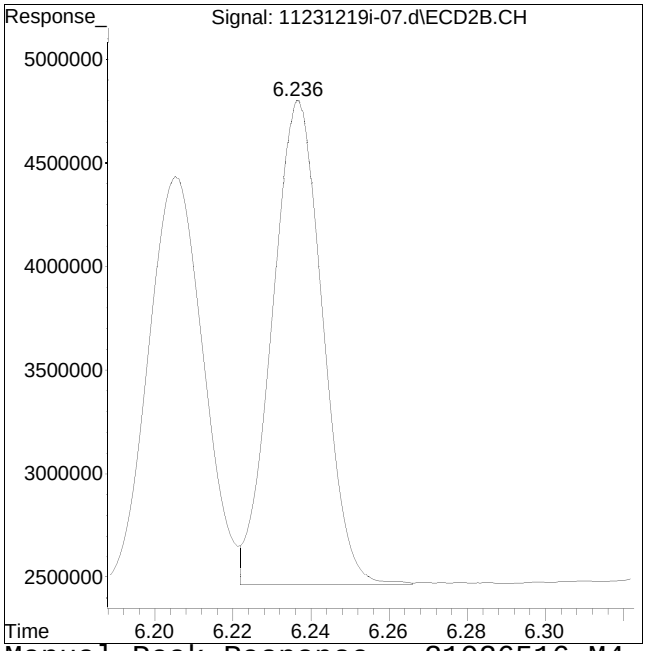
Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-07.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 2:35 pm Instrument : Pest 11
Sample : il5pest,42e,,pp 11402 L0.0Quant Date : 12/20/2023 5:45 pm

Compound #64: Endrin Ketone #2



Original Peak Response = 21133343



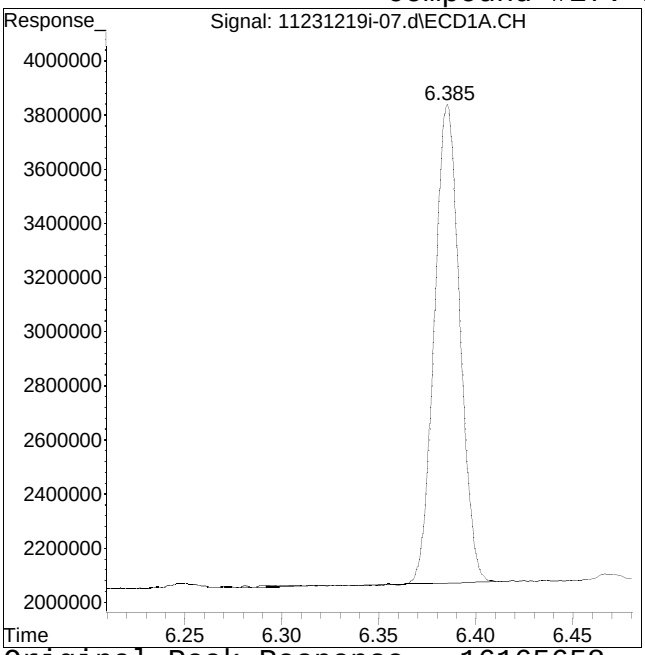
Manual Peak Response = 21026516 M4

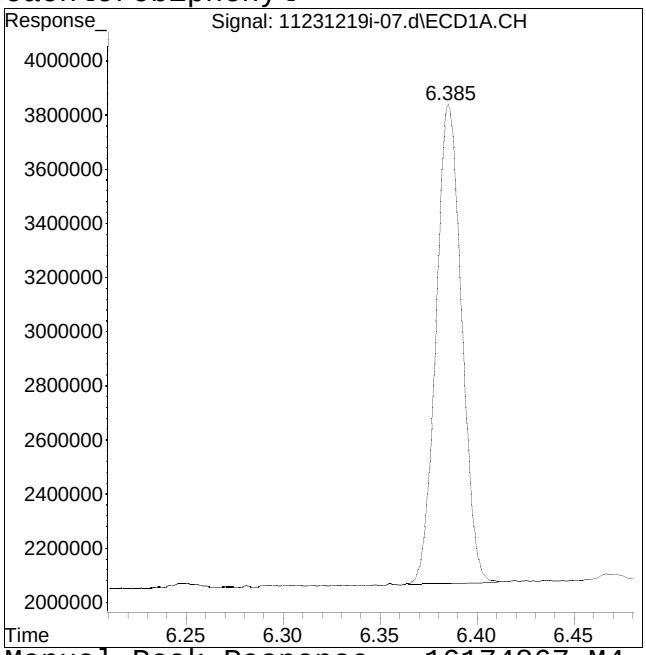
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-07.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 2:35 pm Instrument : Pest 11
Sample : il5pest,42e,,pp 11402 L0.0Quant Date : 12/20/2023 5:45 pm

Compound #27: Decachlorobiphenyl



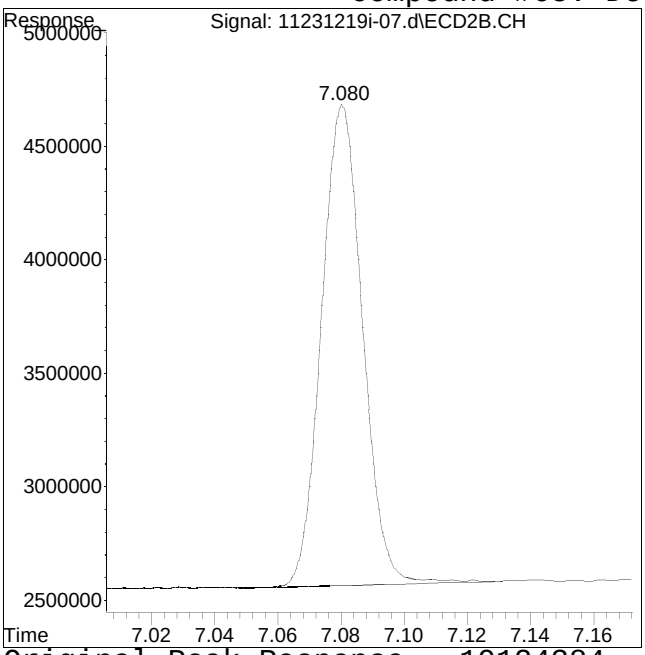


Original Peak Response = 16165658 Manual Peak Response = 16174867 M4
M4 = Poor automated baseline construction.

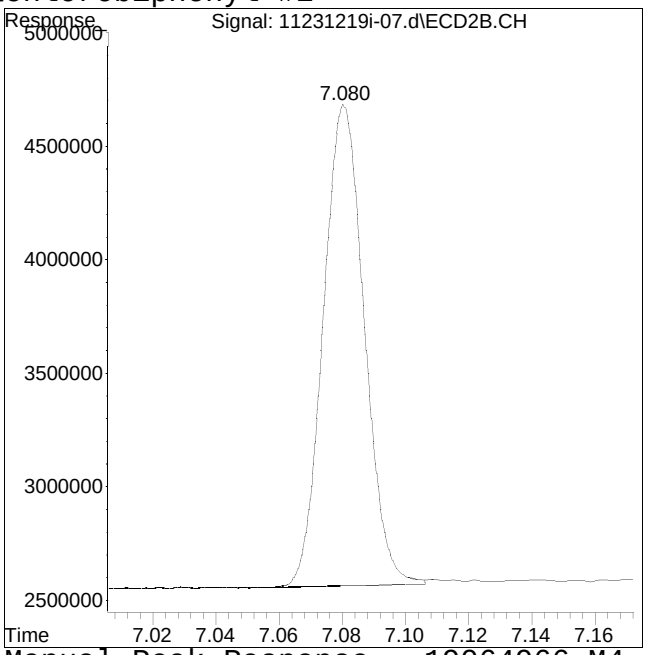
Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-07.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 2:35 pm Instrument : Pest 11
Sample : il5pest,42e,,pp 11402 L0.0Quant Date : 12/20/2023 5:45 pm

Compound #65: Decachlorobiphenyl #2



Original Peak Response = 19124384



Manual Peak Response = 19064966 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2023\231219ICAL\
Data File : 11231219i-08.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 19 Dec 2023 2:47 pm
Operator : PEST11:ejl
Sample : il7pest,42e,,pp 11401 L0.01
Misc : WG1866910,ical (Sig #1); ical (Sig #2)
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 20 17:44:50 2023
Quant Method : I:\PEST\Pest11\2023\231219ICAL\pest11_12_19_23_ugL_ICAL.M
Quant Title : pest
QLast Update : Wed Dec 20 17:40:06 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	1.375	1.481	85705071	117.0E6	25.000M4	25.000
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.729	1.985	31941616	44732172	9.988	10.157M4
	Spiked Amount 50.000	Range 30 - 150		Recovery =		19.98%#	20.31%#
27) s	Decachlorobi	6.385	7.080	37103695	42657804	11.984M4	11.885M4
	Spiked Amount 50.000	Range 30 - 150		Recovery =		23.97%#	23.77%#
	Target Compounds						
3) t	Hexachlorobe	1.949	2.326	37459204	51218181	10.610M3	10.773M4
4) t	alpha-BHC	2.051	2.427	43241195	60638569	8.571M4	8.846M4
5) t	gamma-BHC (l	2.260	2.731	41854060	57347309	8.996M3	9.255
6) t	beta-BHC	2.318	2.797	20499476	28968226	10.546	11.181M4
7) t	delta-BHC	2.450	3.080	41381637	56822960	8.621M4	8.988
8) t	Heptachlor	2.619	3.151	43379199	60351146	9.730M4	10.016
9) t	Aldrin	2.869	3.487	38813164	54403975	9.174M3	9.562M4
10) t	Alachlor	2.993	3.359	6906833	9652688	12.064M3	12.949M4
11) t	Chlorpyrifos	3.087	3.729	23297778	35753697	12.086M4	12.950
12) t	Heptachlor E	3.429	4.128	39998528	55376467	10.040M4	10.375M4
13) t	gamma-Chlord	3.556	4.347	35353258	49679427	9.626M4	10.248M4
14) t	alpha-Chlord	3.694	4.506	41047718	55079734	9.882M3	10.334
15) t	4,4'-DDE	3.792	4.688	36727534	50353488	8.968	9.551
16) t	Endosulfan I	3.835	4.565	38171898	50962933	10.013	10.361M4

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2023\231219ICAL\
Data File : 11231219i-08.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 19 Dec 2023 2:47 pm
Operator : PEST11:ejl
Sample : il7pest,42e,,pp 11401 L0.01
Misc : WG1866910,ical (Sig #1); ical (Sig #2)
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 20 17:44:50 2023
Quant Method : I:\PEST\Pest11\2023\231219ICAL\pest11_12_19_23_ugL_ICAL.M
Quant Title : pest
QLast Update : Wed Dec 20 17:40:06 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
17) t	Dieldrin	4.100	4.842	37814166	50075005	9.387M4	9.740
18) t	Endrin	4.352	5.129	39106309	50337453	9.447M4	9.715
19) t	4,4'-DDD	4.454	5.238	30598195	40107057	9.135	9.595M3
20) t	Endosulfan I	4.584	5.319	37031564	46576041	10.255	10.573M4
21) t	4,4'-DDT	4.738	5.508	36603335	46510607	9.464	9.879M4
22) t	Endrin Aldeh	4.989	5.606	30867320	39564675	10.153M4	10.570M4
23) t	Methoxychlor	5.212	6.056	23265323	27967241	11.430	11.726M4
24) t	Mirex	5.274	6.206	37169208	42604368	11.870	12.365
25) t	Endosulfan S	5.374	5.830	36731770	45524444	10.667M3	10.765M4
26) t	Endrin Keton	5.598	6.237	41940841	49409450	10.602M4	10.576
29) l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2023\231219ICAL\
Data File : 11231219i-08.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 19 Dec 2023 2:47 pm
Operator : PEST11:ejl
Sample : il7pest,42e,,pp 11401 L0.01
Misc : WG1866910,ical (Sig #1); ical (Sig #2)
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 20 17:44:50 2023
Quant Method : I:\PEST\Pest11\2023\231219ICAL\pest11_12_19_23_ugL_ICAL.M
Quant Title : pest
QLast Update : Wed Dec 20 17:40:06 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l

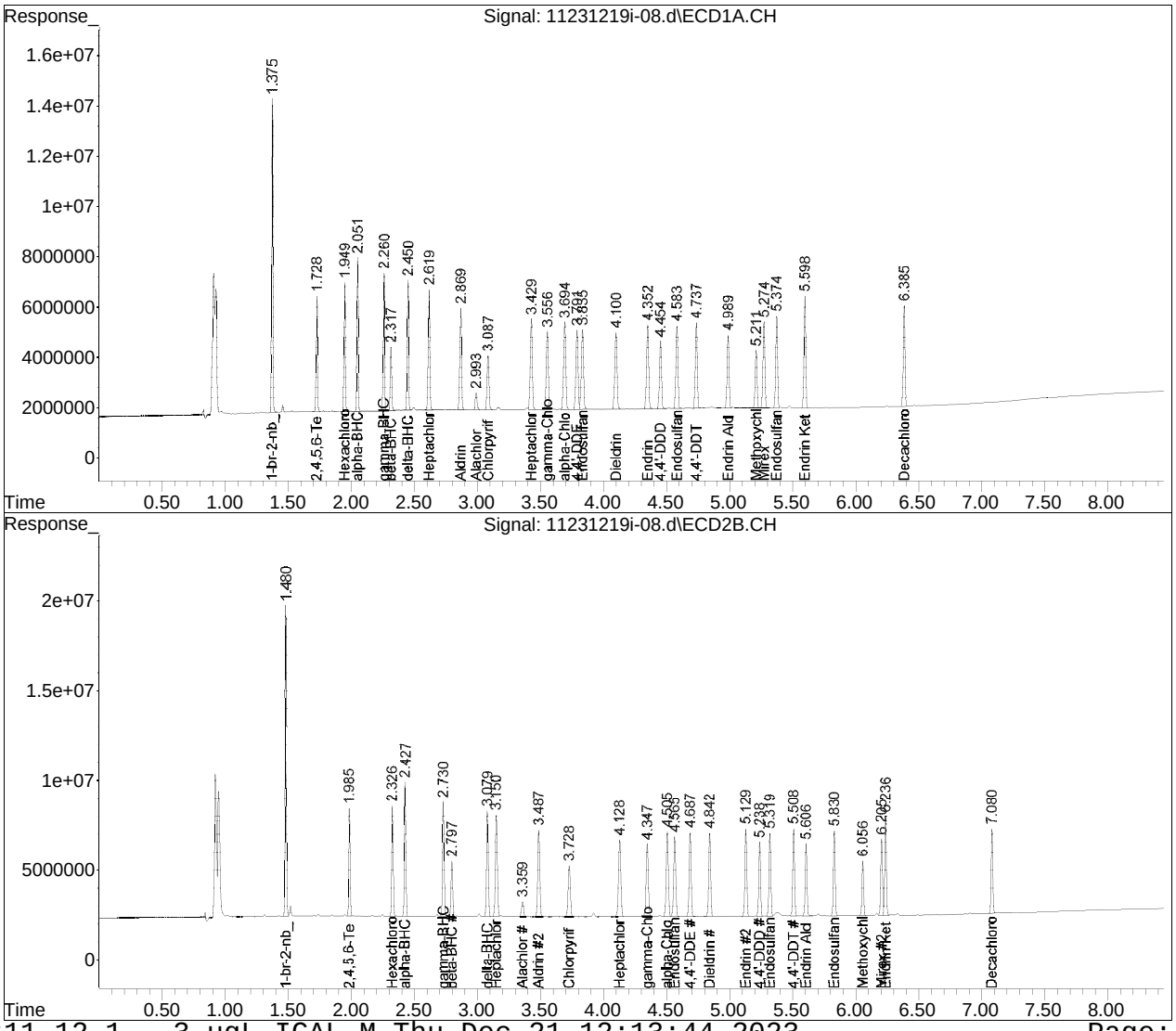
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest11\2023\231219ICAL\
Data File : 11231219i-08.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 19 Dec 2023 2:47 pm
Operator : PEST11:ejl
Sample : il7pest,42e,,pp 11401 L0.01
Misc : WG1866910,ical (Sig #1); ical (Sig #2)
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 20 17:44:50 2023
Quant Method : I:\PEST\Pest11\2023\231219ICAL\pest11_12_19_23_ugL_ICAL.M
Quant Title : pest
QLast Update : Wed Dec 20 17:40:06 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

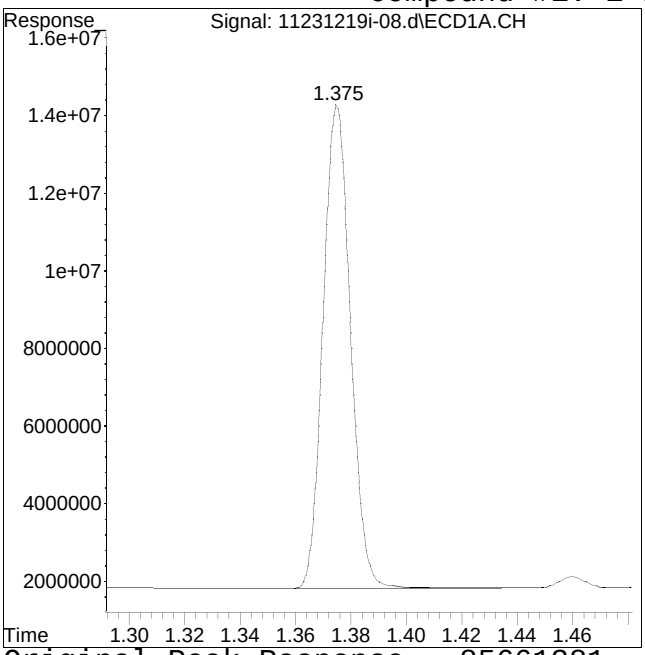
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



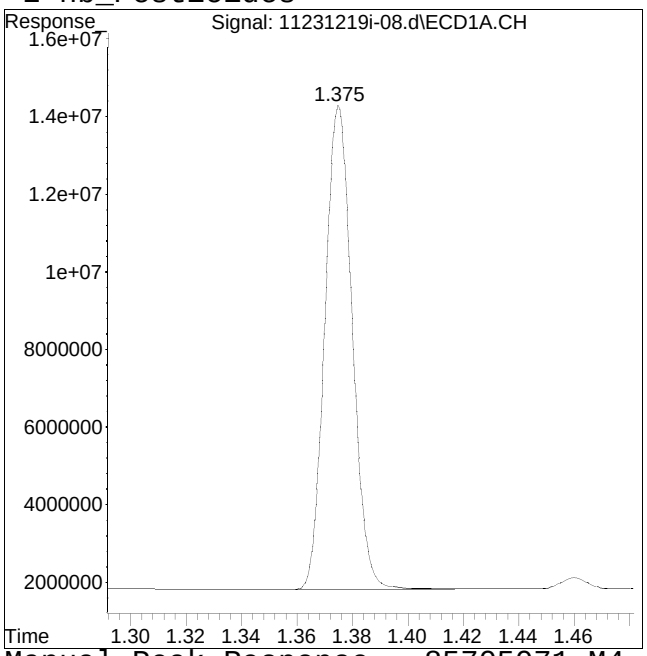
Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-08.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 2:47 pm Instrument : Pest 11
Sample : il7pest,42e,,pp 11401 L0.0Quant Date : 12/20/2023 5:40 pm

Compound #1: 1-br-2-nb_Pesticides



Original Peak Response = 85661381



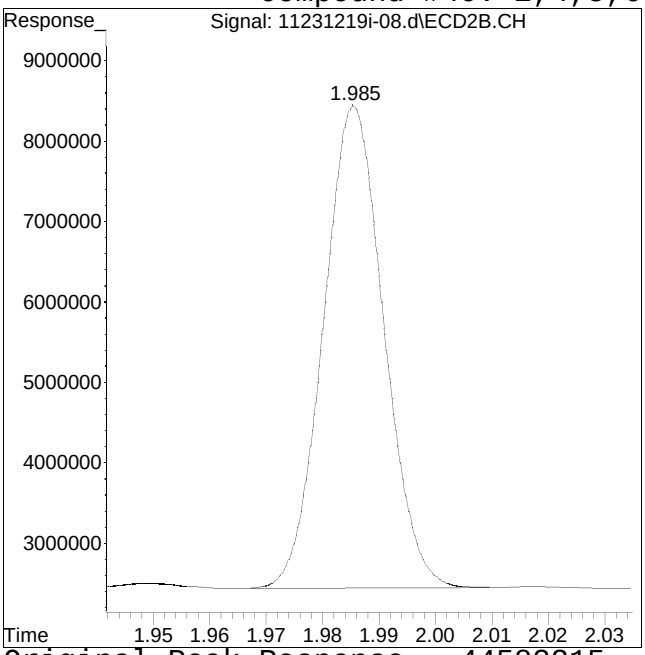
Manual Peak Response = 85705071 M4

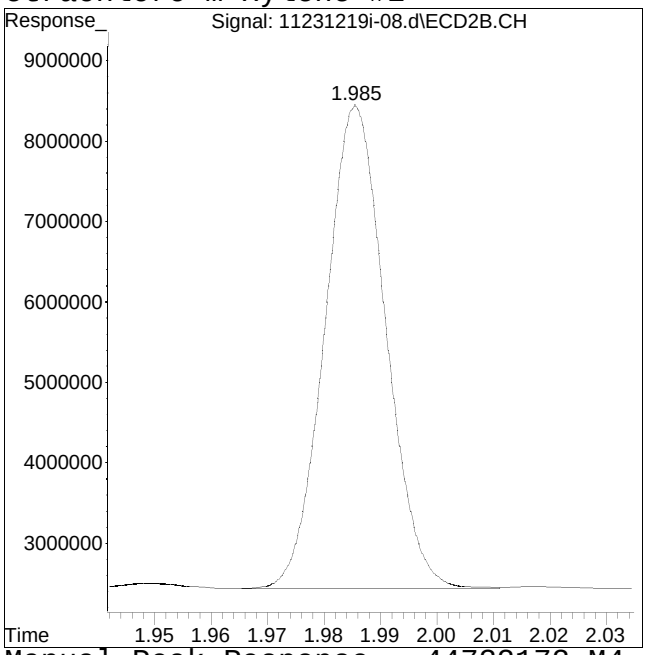
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-08.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 2:47 pm Instrument : Pest 11
Sample : il7pest,42e,,pp 11401 L0.0Quant Date : 12/20/2023 5:40 pm

Compound #40: 2,4,5,6-Tetrachloro-m-xylene #2



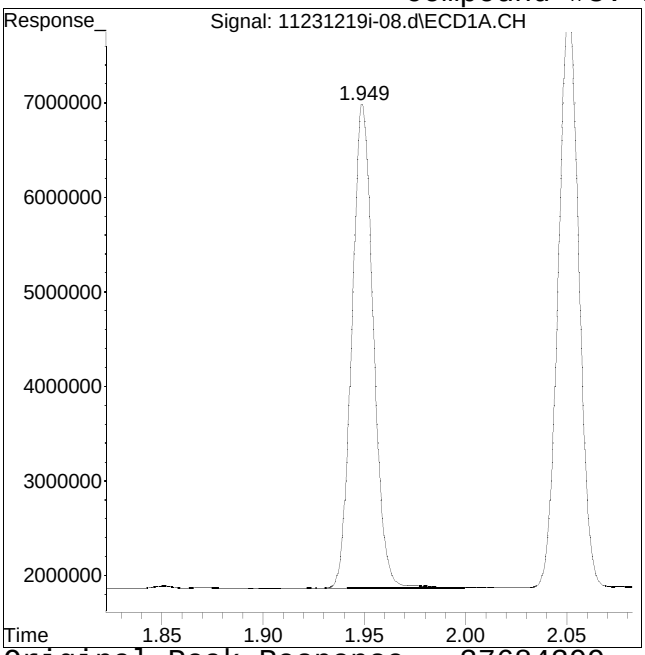


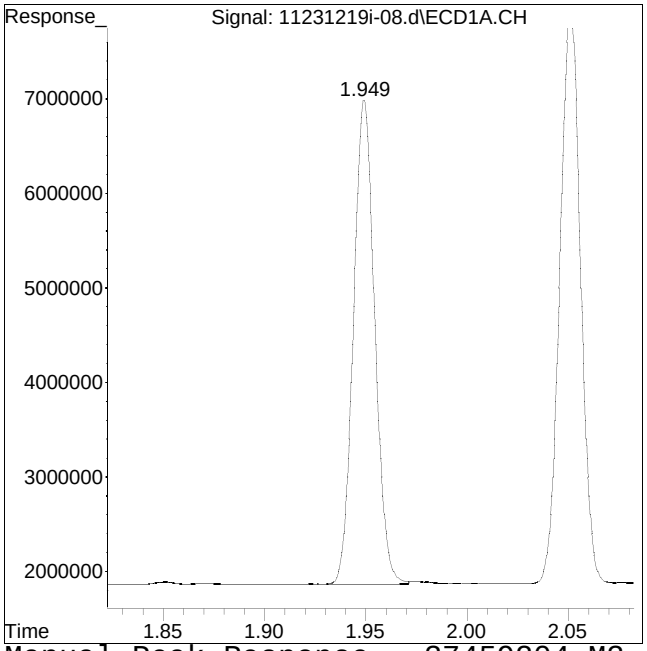
Original Peak Response = 44582215 Manual Peak Response = 44732172 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-08.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 2:47 pm Instrument : Pest 11
Sample : il7pest,42e,,pp 11401 L0.0Quant Date : 12/20/2023 5:40 pm

Compound #3: Hexachlorobenzene



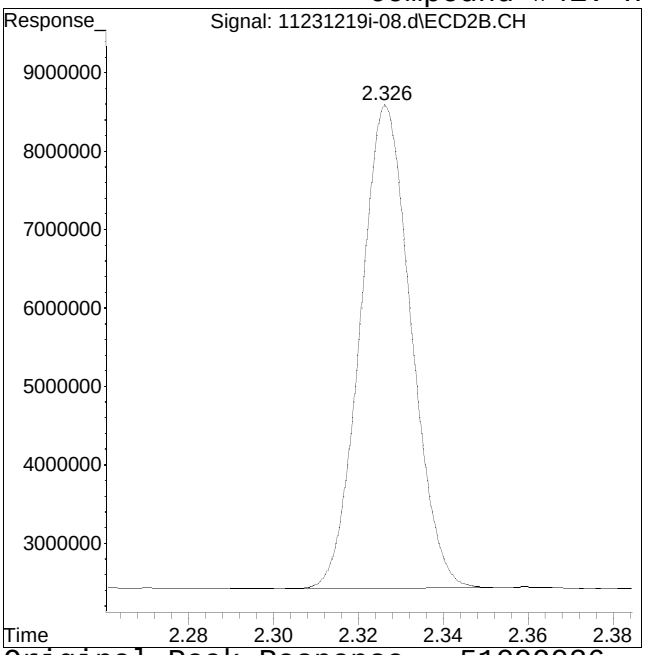


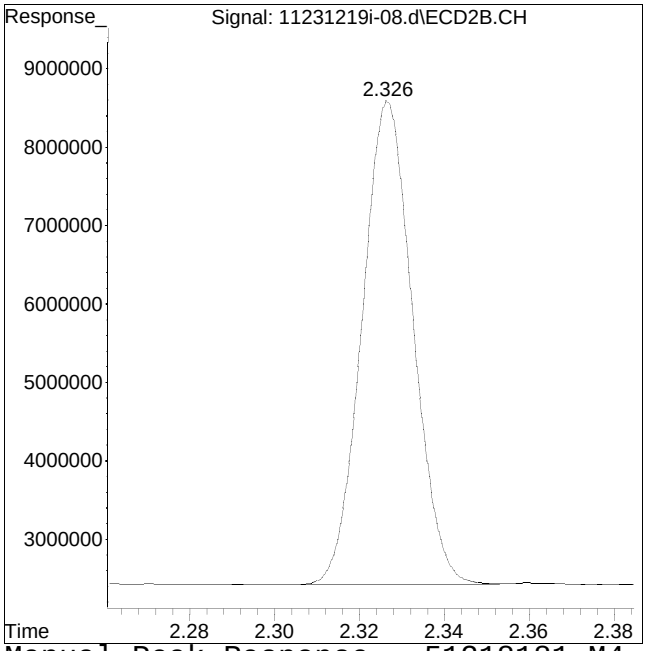
Original Peak Response = 37684399 Manual Peak Response = 37459204 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-08.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 2:47 pm Instrument : Pest 11
Sample : il7pest,42e,,pp 11401 L0.0Quant Date : 12/20/2023 5:40 pm

Compound #41: Hexachlorobenzene #2



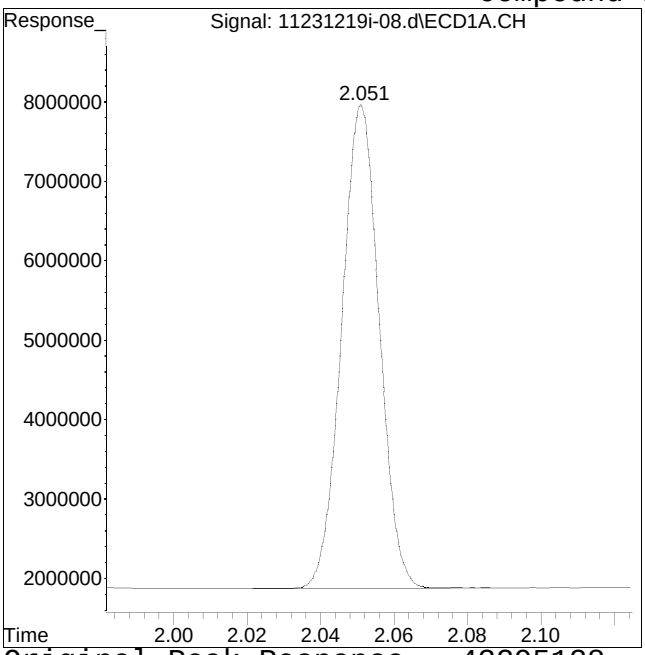


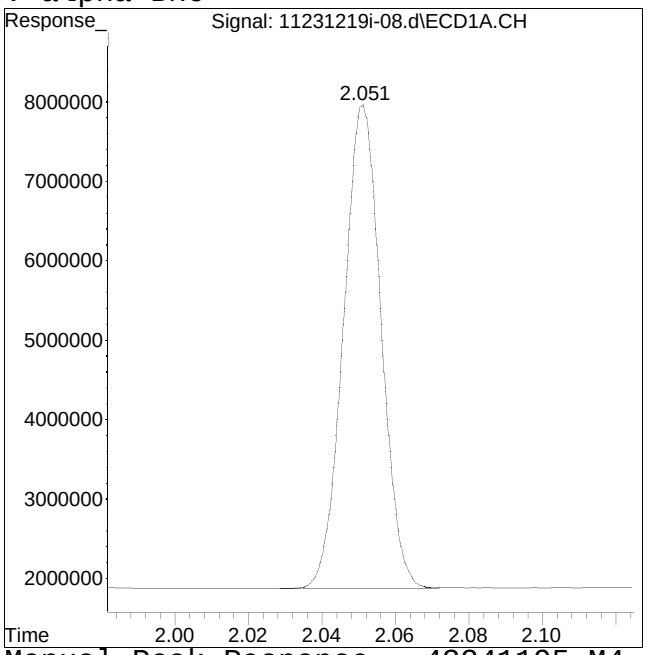
Original Peak Response = 51099936 Manual Peak Response = 51218181 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-08.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 2:47 pm Instrument : Pest 11
Sample : il7pest,42e,,pp 11401 L0.0Quant Date : 12/20/2023 5:40 pm

Compound #4: alpha-BHC



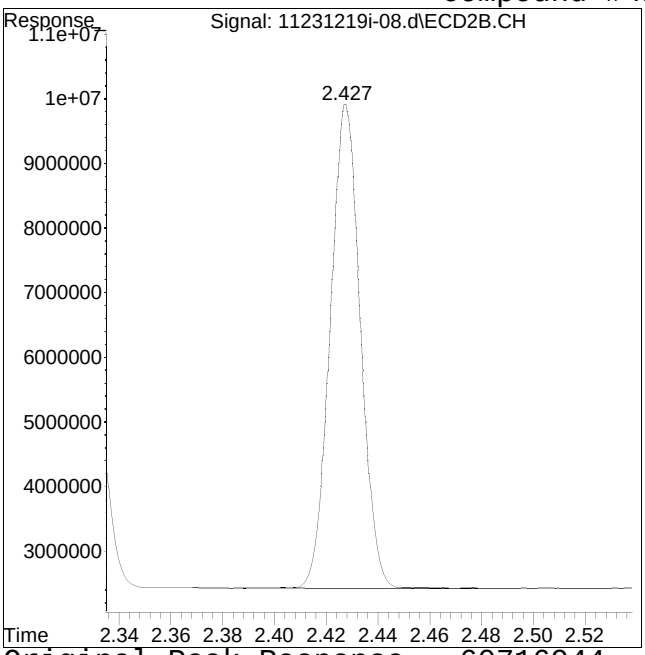


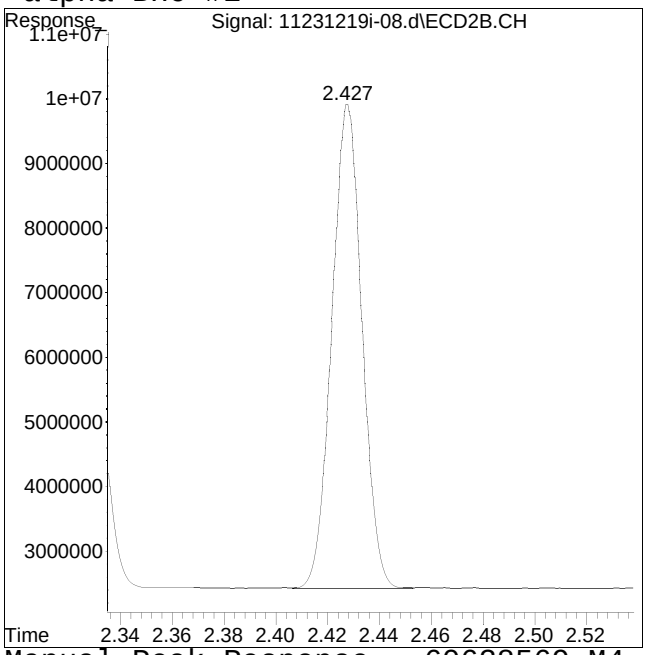
Original Peak Response = 43295128 Manual Peak Response = 43241195 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-08.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 2:47 pm Instrument : Pest 11
Sample : il7pest,42e,,pp 11401 L0.0Quant Date : 12/20/2023 5:40 pm

Compound #42: alpha-BHC #2



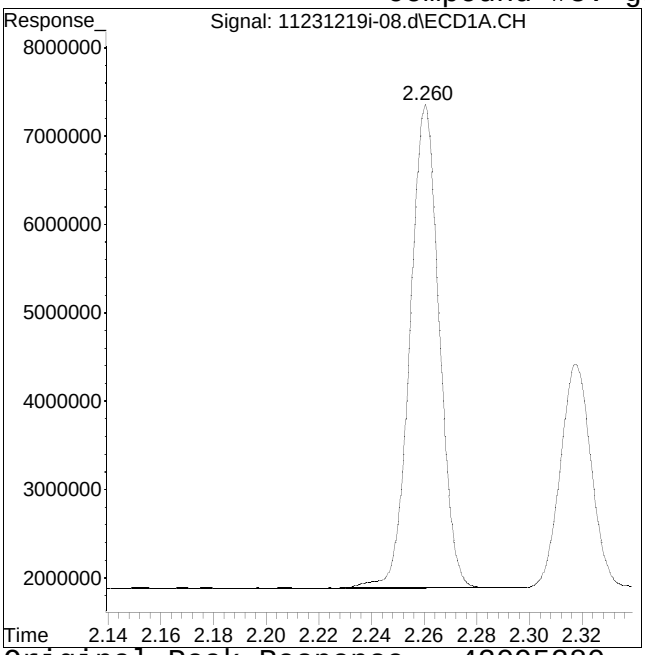


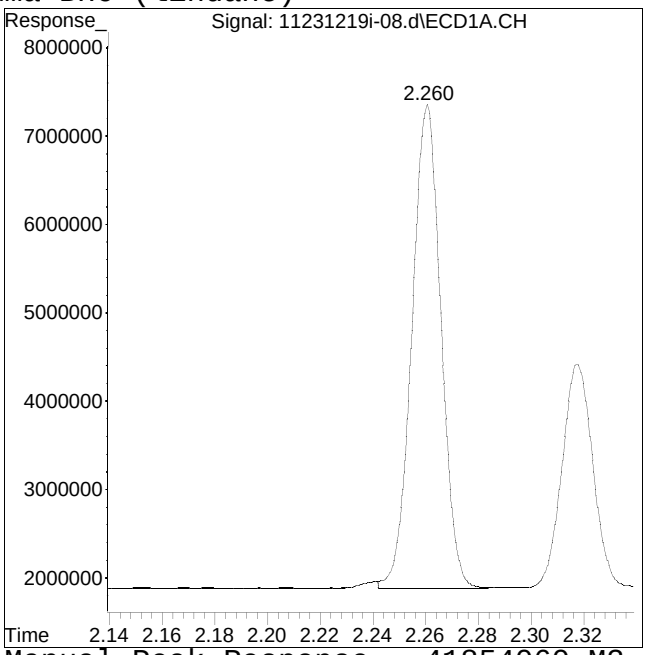
Original Peak Response = 60716944 Manual Peak Response = 60638569 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-08.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 2:47 pm Instrument : Pest 11
Sample : il7pest,42e,,pp 11401 L0.0Quant Date : 12/20/2023 5:40 pm

Compound #5: gamma-BHC (lindane)



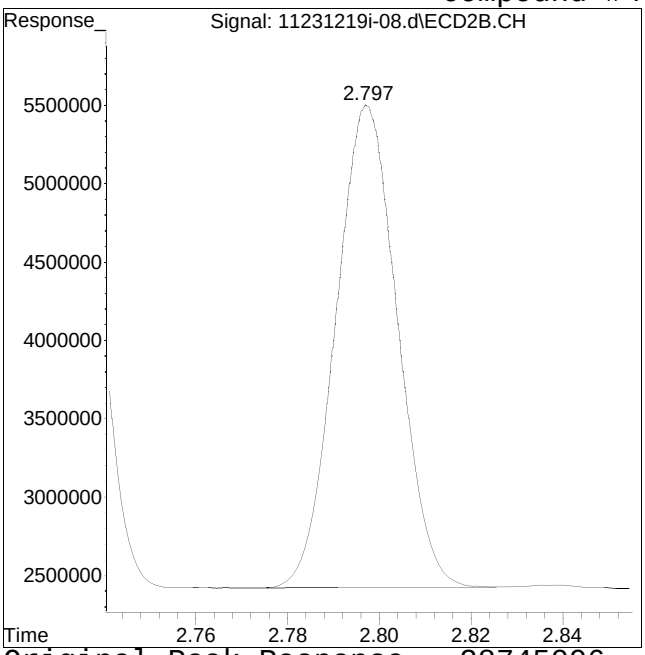


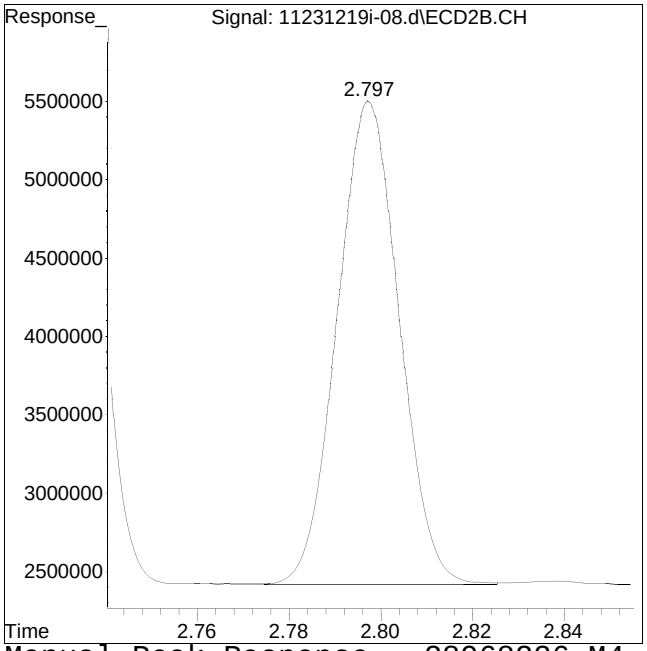
Original Peak Response = 42095280 Manual Peak Response = 41854060 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-08.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 2:47 pm Instrument : Pest 11
Sample : il7pest,42e,,pp 11401 L0.0Quant Date : 12/20/2023 5:40 pm

Compound #44: beta-BHC #2



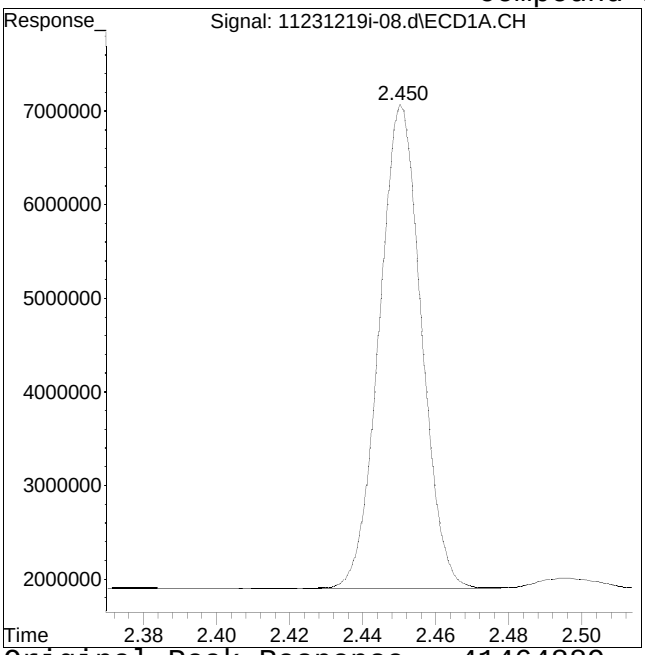


Original Peak Response = 28745096 Manual Peak Response = 28968226 M4
M4 = Poor automated baseline construction.

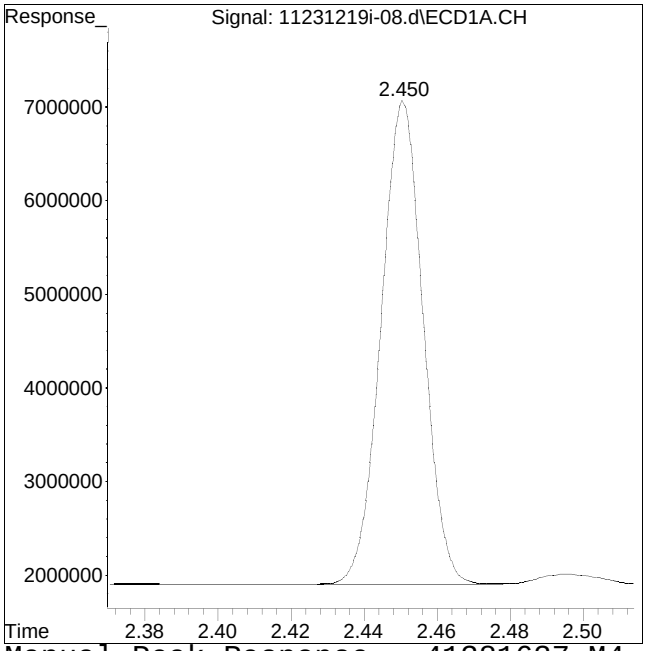
Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-08.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 2:47 pm Instrument : Pest 11
Sample : il7pest,42e,,pp 11401 L0.0Quant Date : 12/20/2023 5:40 pm

Compound #7: delta-BHC



Original Peak Response = 41464889



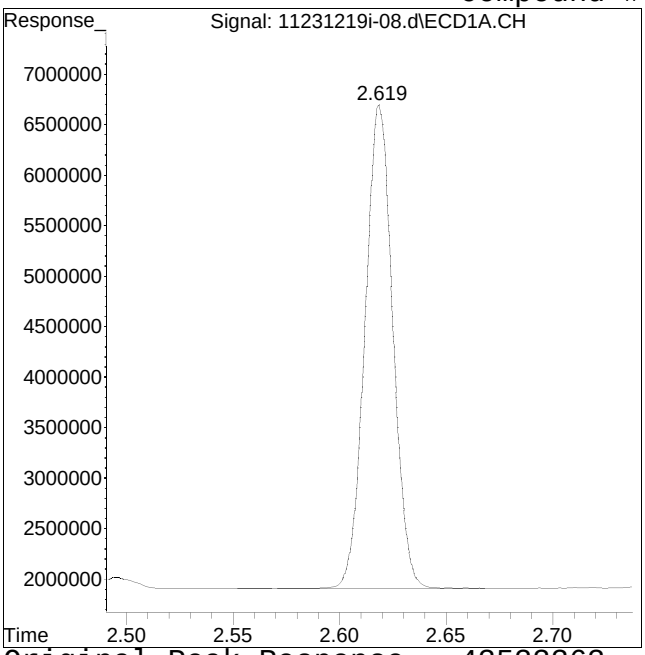
Manual Peak Response = 41381637 M4

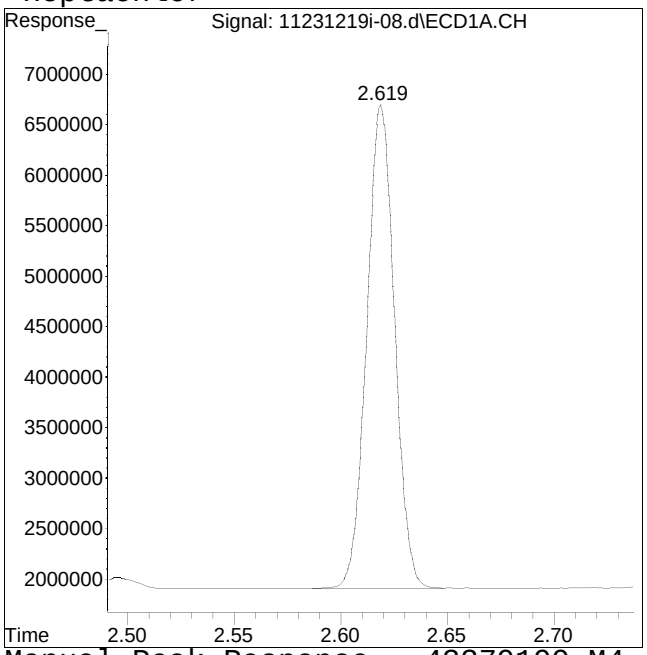
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-08.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 2:47 pm Instrument : Pest 11
Sample : il7pest,42e,,pp 11401 L0.0Quant Date : 12/20/2023 5:40 pm

Compound #8: Heptachlor



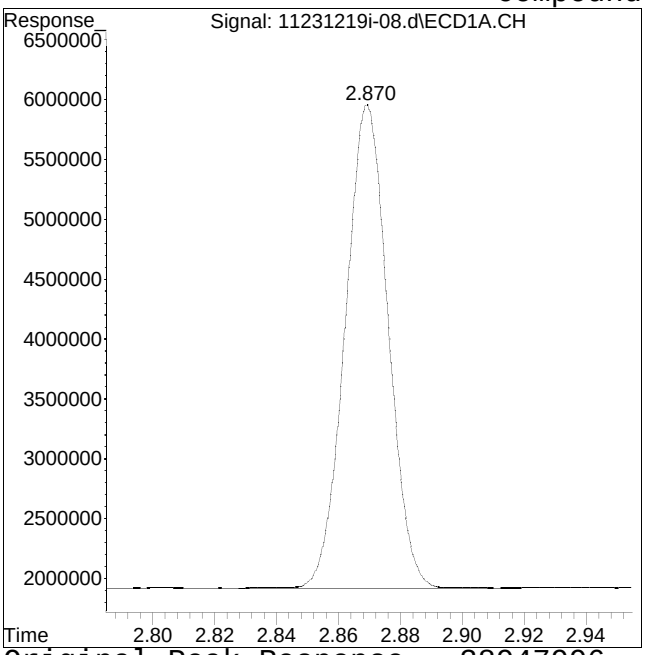


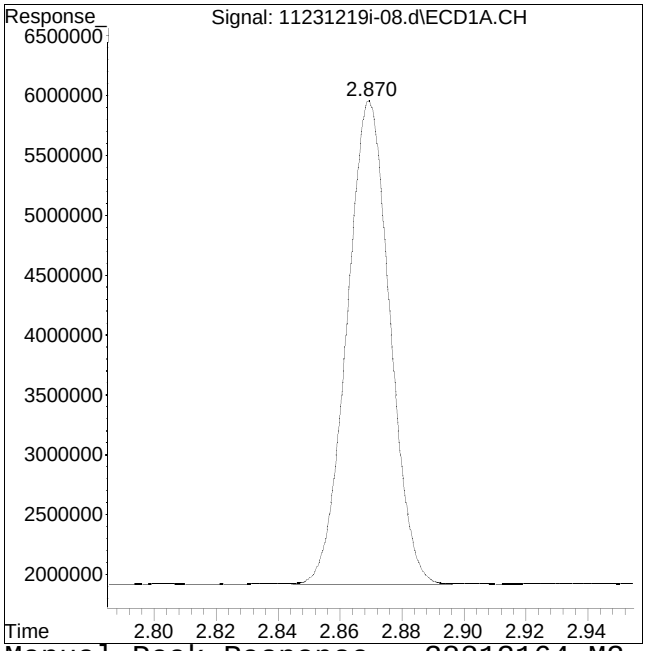
Original Peak Response = 43533363 Manual Peak Response = 43379199 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-08.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 2:47 pm Instrument : Pest 11
Sample : il7pest,42e,,pp 11401 L0.0Quant Date : 12/20/2023 5:40 pm

Compound #9: Aldrin



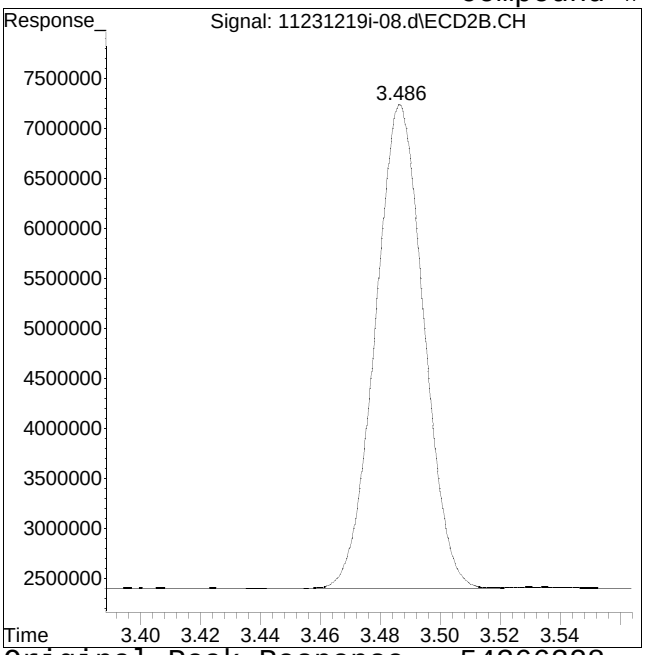


Original Peak Response = 38947996 Manual Peak Response = 38813164 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

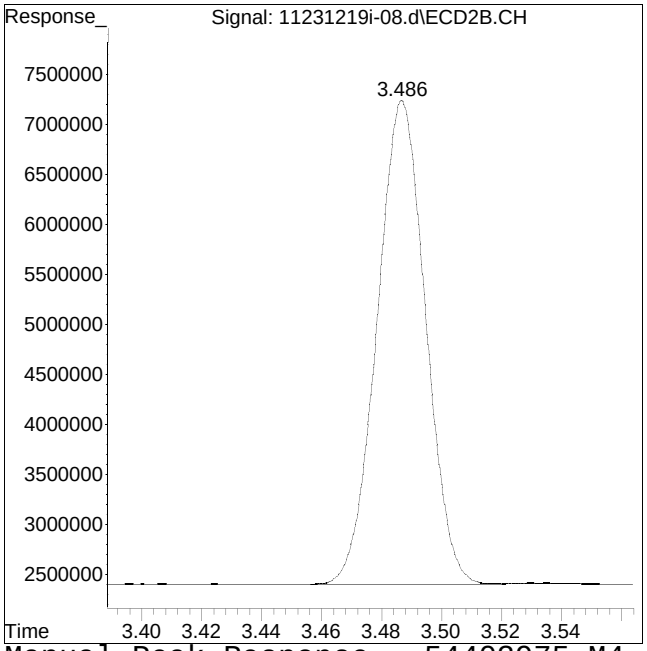
Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-08.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 2:47 pm Instrument : Pest 11
Sample : il7pest,42e,,pp 11401 L0.0Quant Date : 12/20/2023 5:40 pm

Compound #47: Aldrin #2



Original Peak Response = 54366328



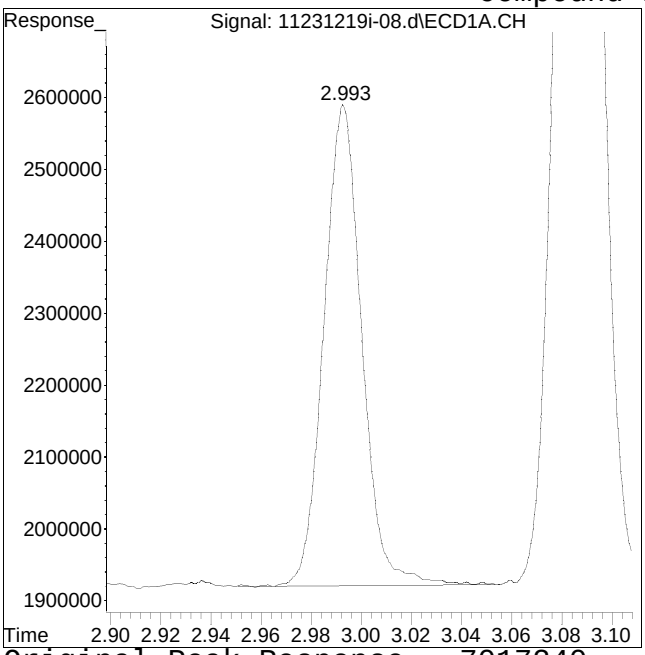
Manual Peak Response = 54403975 M4

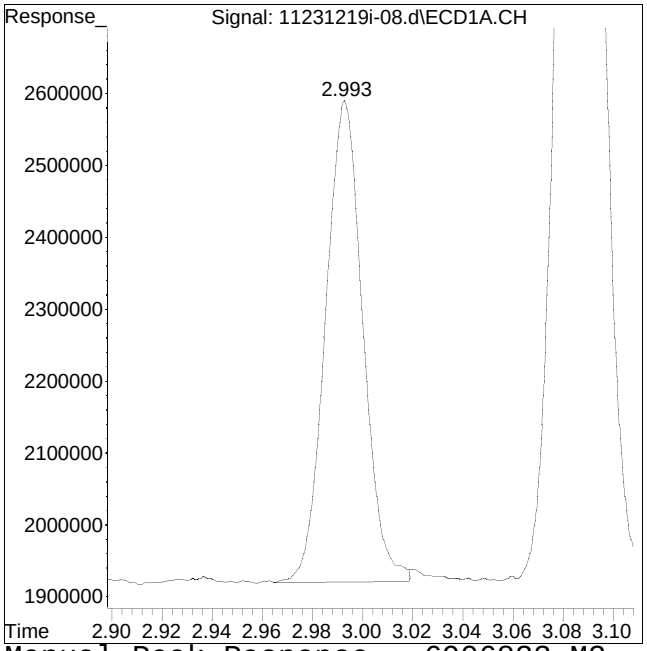
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-08.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 2:47 pm Instrument : Pest 11
Sample : il7pest,42e,,pp 11401 L0.0Quant Date : 12/20/2023 5:40 pm

Compound #10: Alachlor



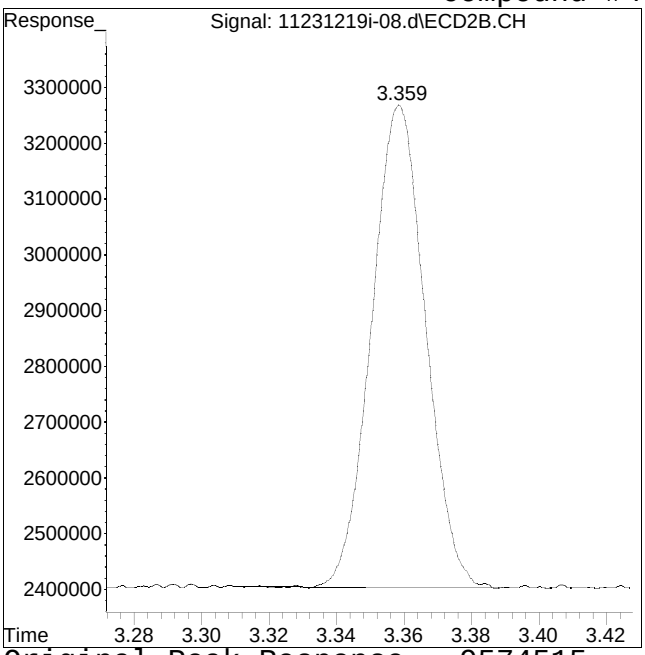


Original Peak Response = 7017240 Manual Peak Response = 6906833 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

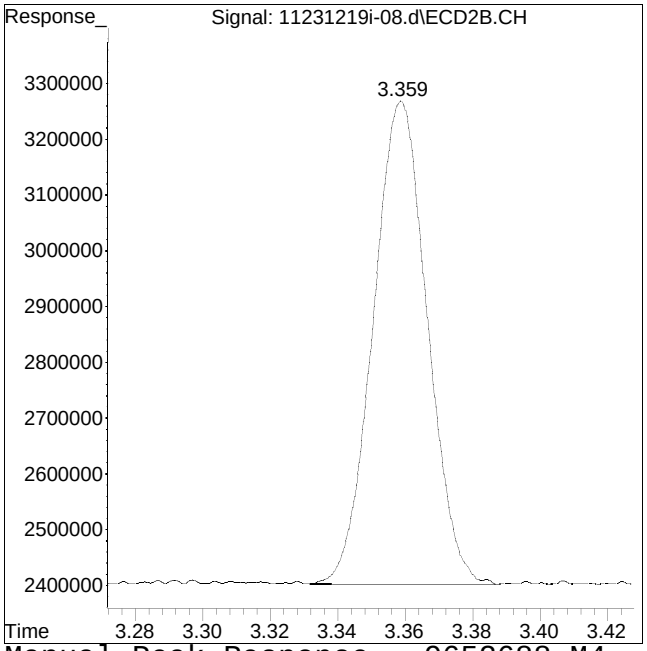
Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-08.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 2:47 pm Instrument : Pest 11
Sample : il7pest,42e,,pp 11401 L0.0Quant Date : 12/20/2023 5:40 pm

Compound #48: Alachlor #2



Original Peak Response = 9574515



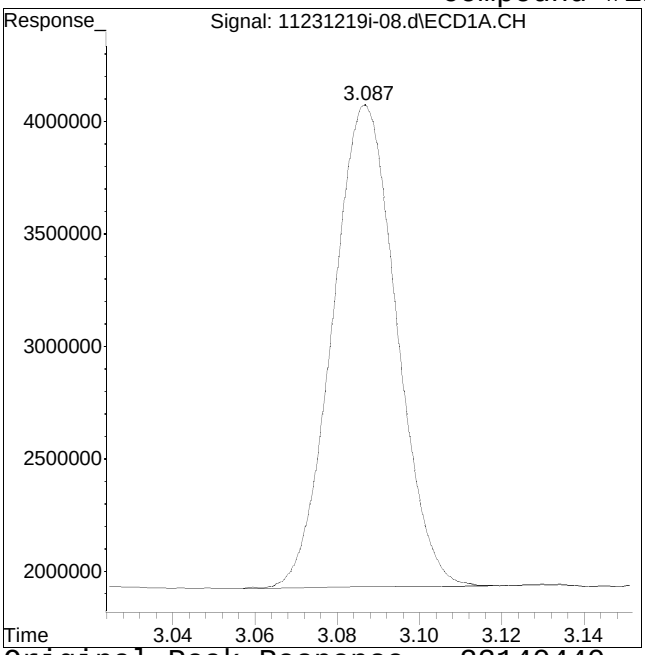
Manual Peak Response = 9652688 M4

M4 = Poor automated baseline construction.

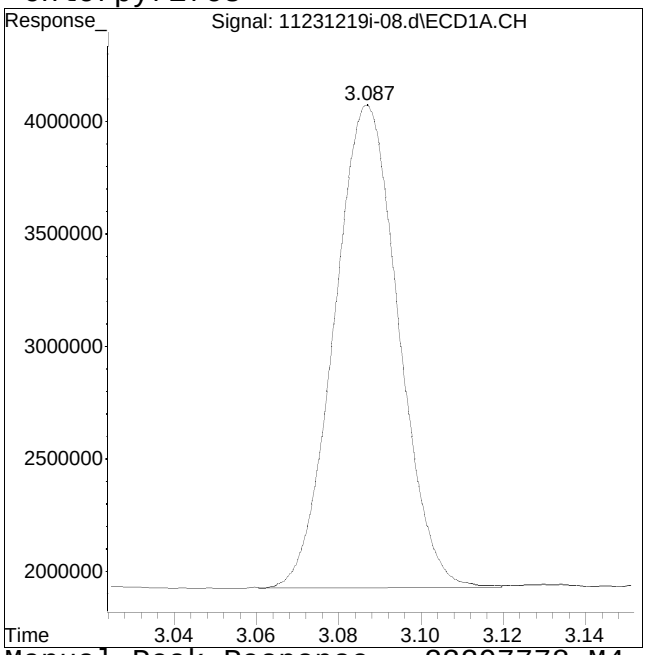
Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-08.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 2:47 pm Instrument : Pest 11
Sample : il7pest,42e,,pp 11401 L0.0Quant Date : 12/20/2023 5:40 pm

Compound #11: Chlorpyrifos



Original Peak Response = 23140440



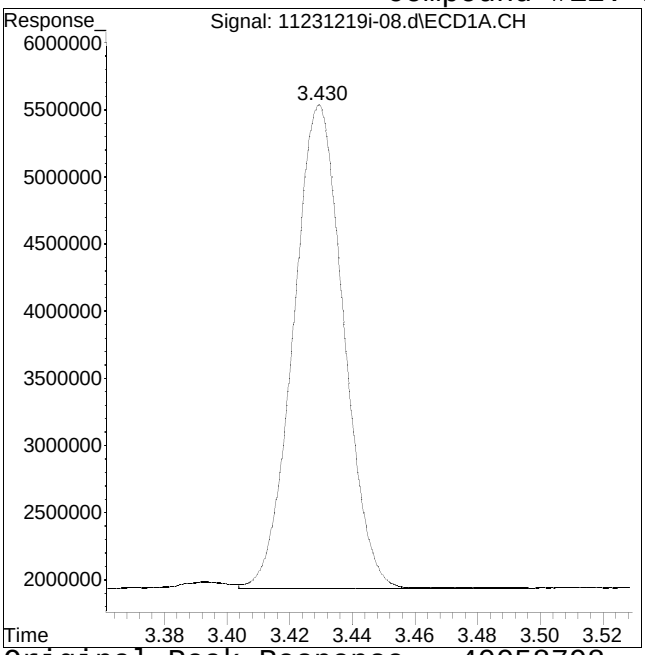
Manual Peak Response = 23297778 M4

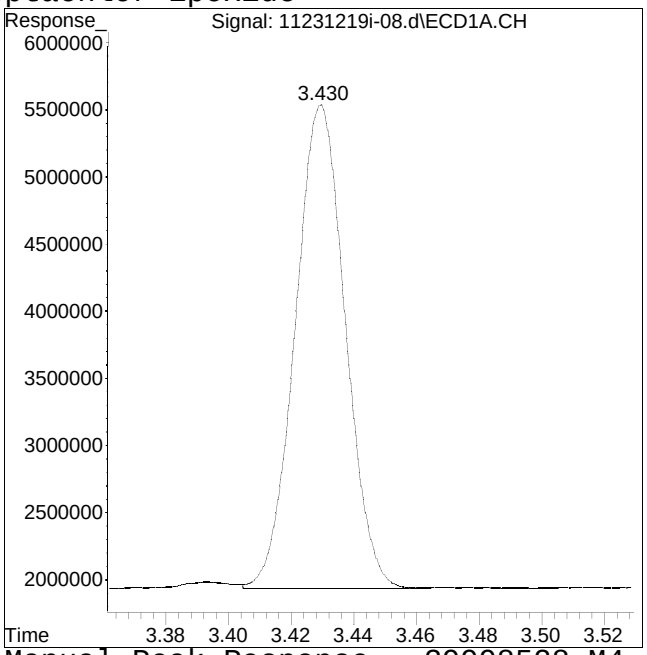
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-08.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 2:47 pm Instrument : Pest 11
Sample : il7pest,42e,,pp 11401 L0.0Quant Date : 12/20/2023 5:40 pm

Compound #12: Heptachlor Epoxide



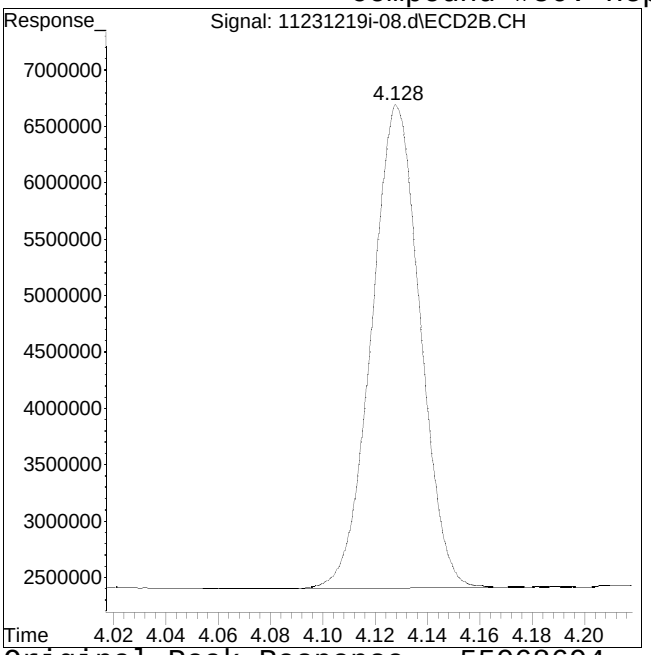


Original Peak Response = 40058798 Manual Peak Response = 39998528 M4
M4 = Poor automated baseline construction.

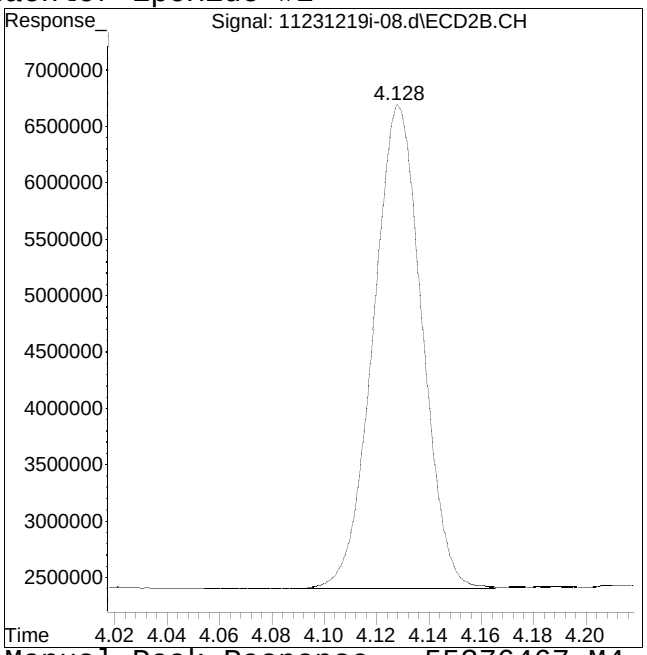
Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-08.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 2:47 pm Instrument : Pest 11
Sample : il7pest,42e,,pp 11401 L0.0Quant Date : 12/20/2023 5:40 pm

Compound #50: Heptachlor Epoxide #2



Original Peak Response = 55068694



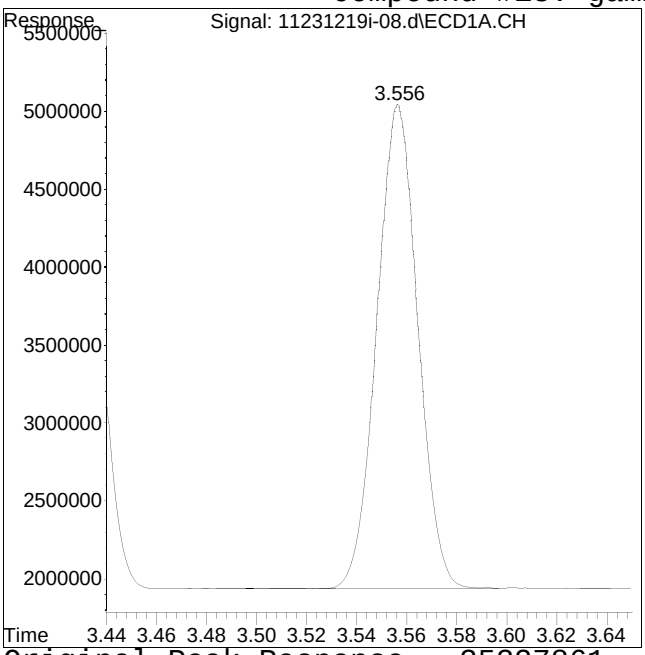
Manual Peak Response = 55376467 M4

M4 = Poor automated baseline construction.

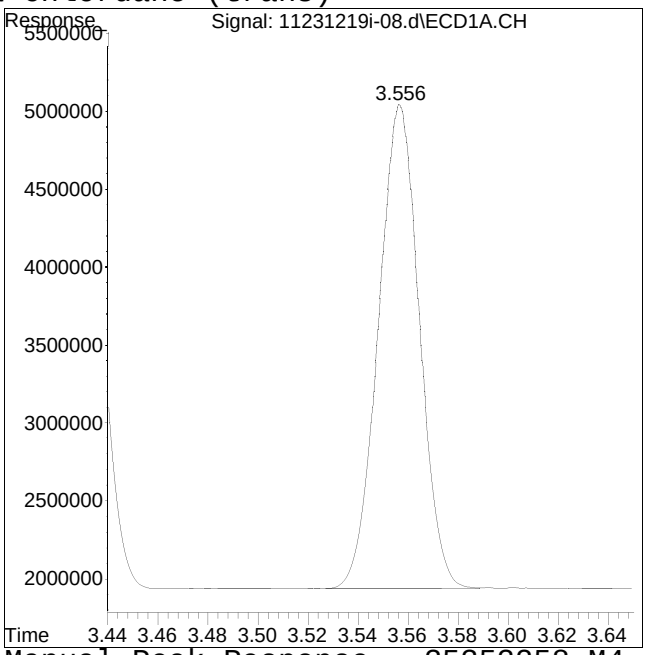
Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-08.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 2:47 pm Instrument : Pest 11
Sample : il7pest,42e,,pp 11401 L0.0Quant Date : 12/20/2023 5:40 pm

Compound #13: gamma-Chlordane (trans)



Original Peak Response = 35327861



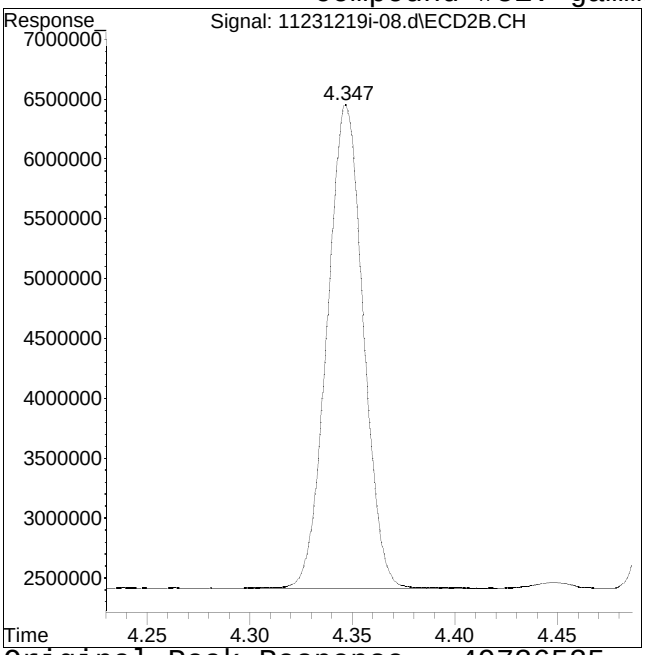
Manual Peak Response = 35353258 M4

M4 = Poor automated baseline construction.

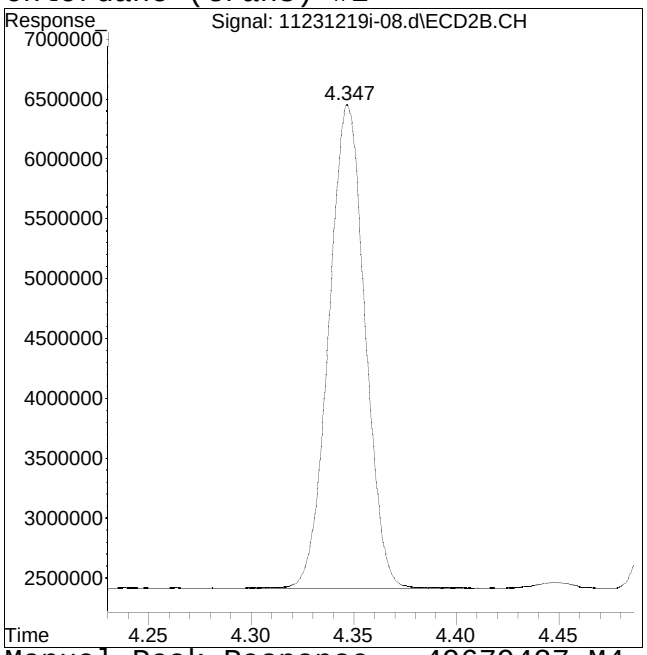
Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-08.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 2:47 pm Instrument : Pest 11
Sample : il7pest,42e,,pp 11401 L0.0Quant Date : 12/20/2023 5:40 pm

Compound #51: gamma-Chlordane (trans) #2



Original Peak Response = 49736535



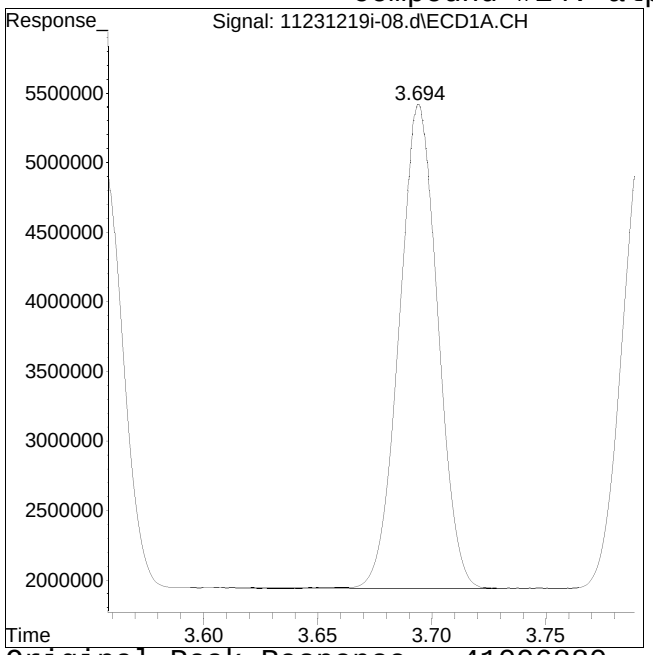
Manual Peak Response = 49679427 M4

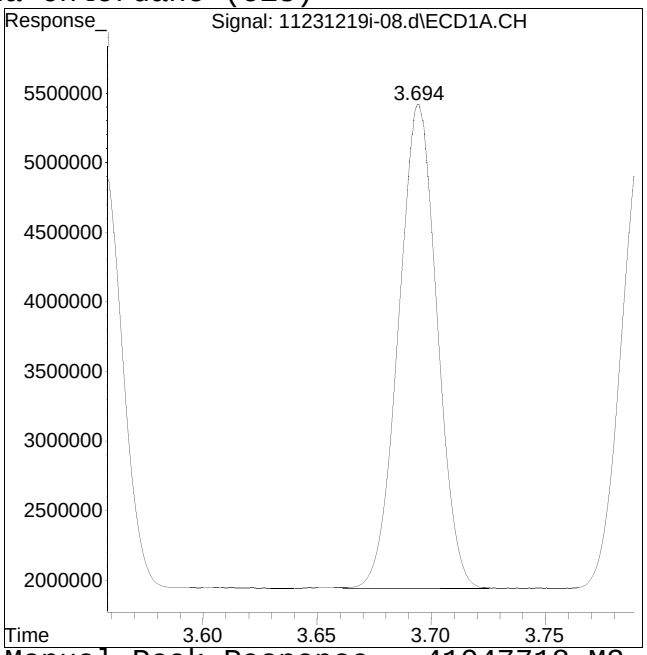
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-08.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 2:47 pm Instrument : Pest 11
Sample : il7pest,42e,,pp 11401 L0.0Quant Date : 12/20/2023 5:40 pm

Compound #14: alpha-Chlordane (cis)



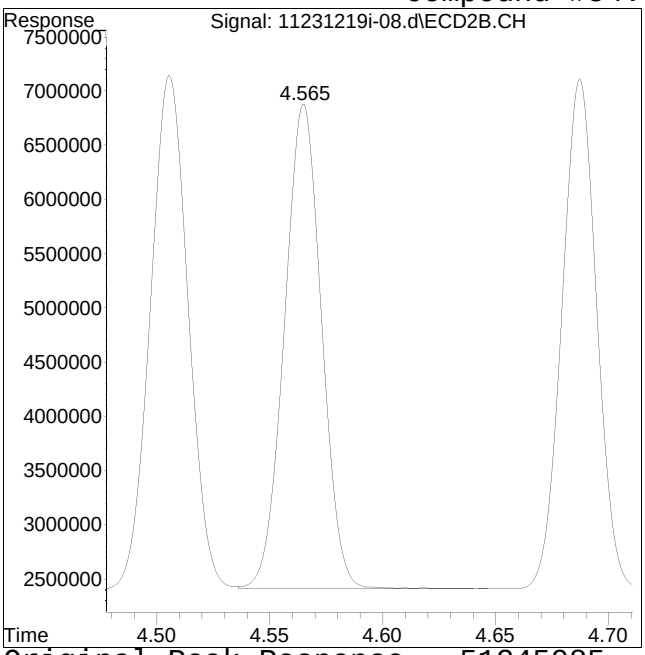


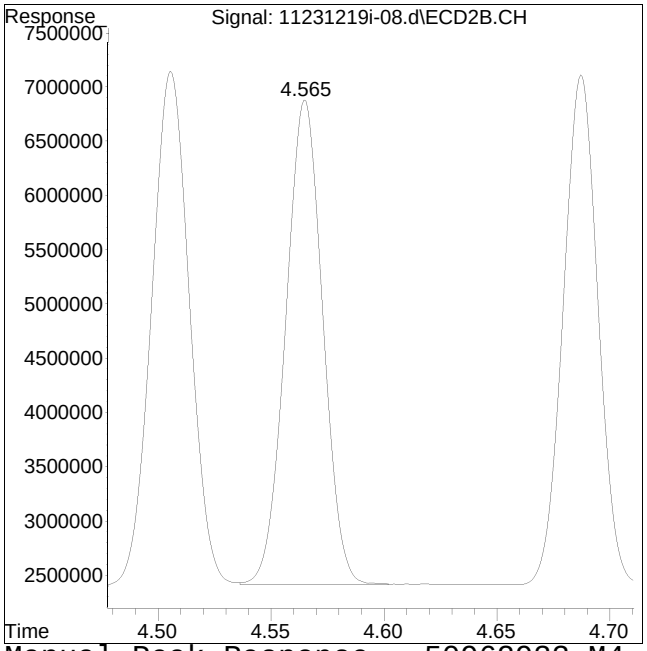
Original Peak Response = 41006880 Manual Peak Response = 41047718 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-08.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 2:47 pm Instrument : Pest 11
Sample : il7pest,42e,,pp 11401 L0.0Quant Date : 12/20/2023 5:40 pm

Compound #54: Endosulfan I #2



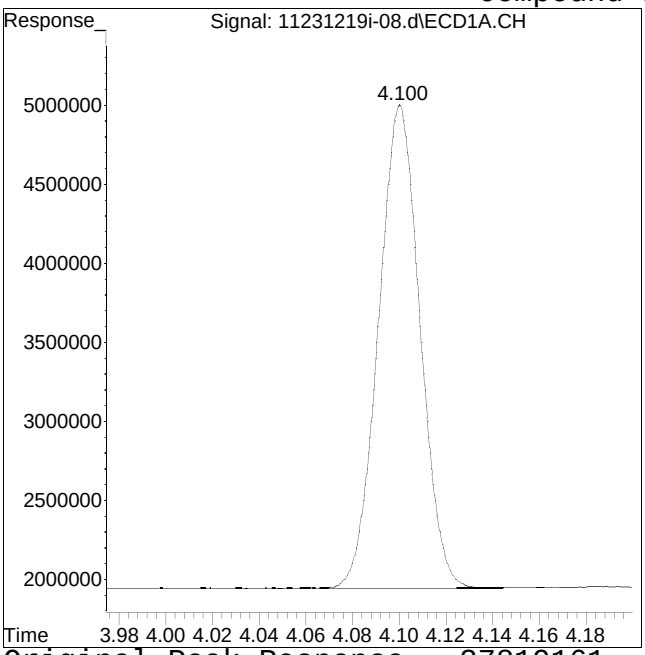


Original Peak Response = 51245085 Manual Peak Response = 50962933 M4
M4 = Poor automated baseline construction.

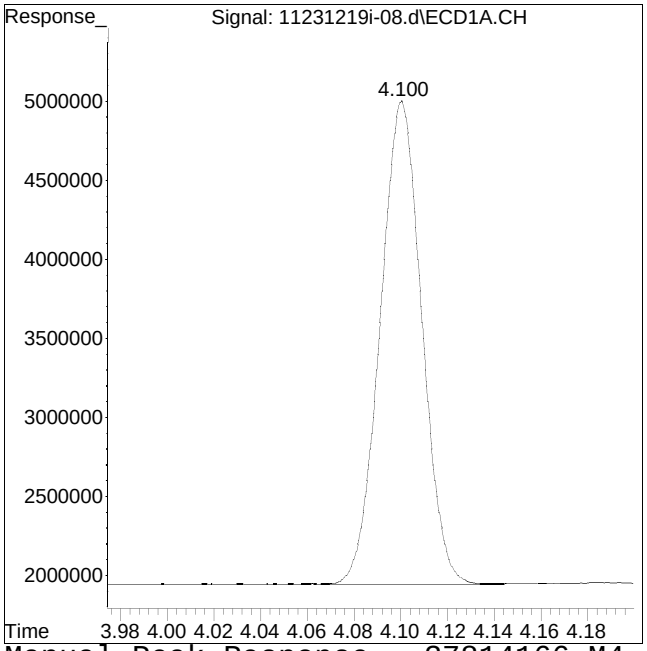
Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-08.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 2:47 pm Instrument : Pest 11
Sample : il7pest,42e,,pp 11401 L0.0Quant Date : 12/20/2023 5:40 pm

Compound #17: Dieldrin



Original Peak Response = 37819161



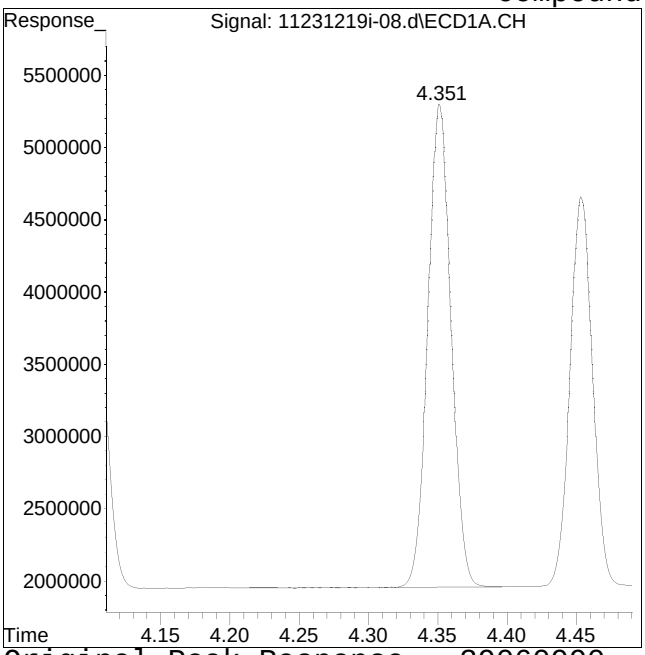
Manual Peak Response = 37814166 M4

M4 = Poor automated baseline construction.

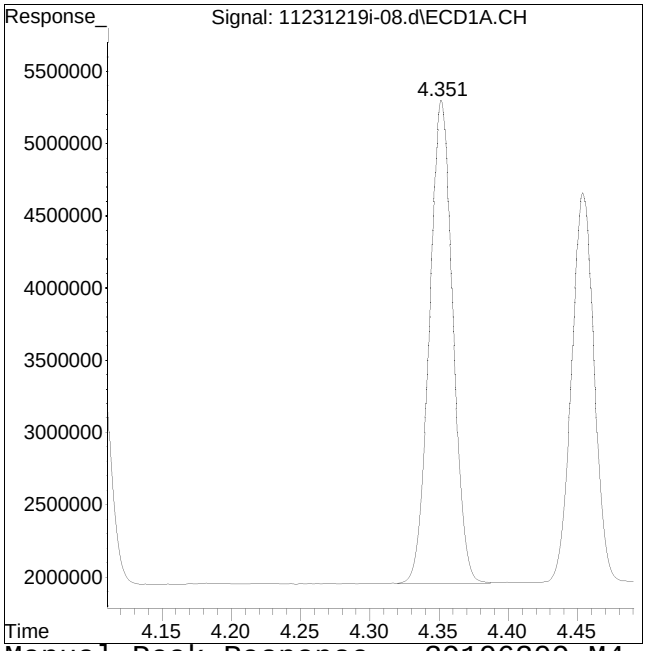
Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-08.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 2:47 pm Instrument : Pest 11
Sample : il7pest,42e,,pp 11401 L0.0Quant Date : 12/20/2023 5:40 pm

Compound #18: Endrin



Original Peak Response = 39060990



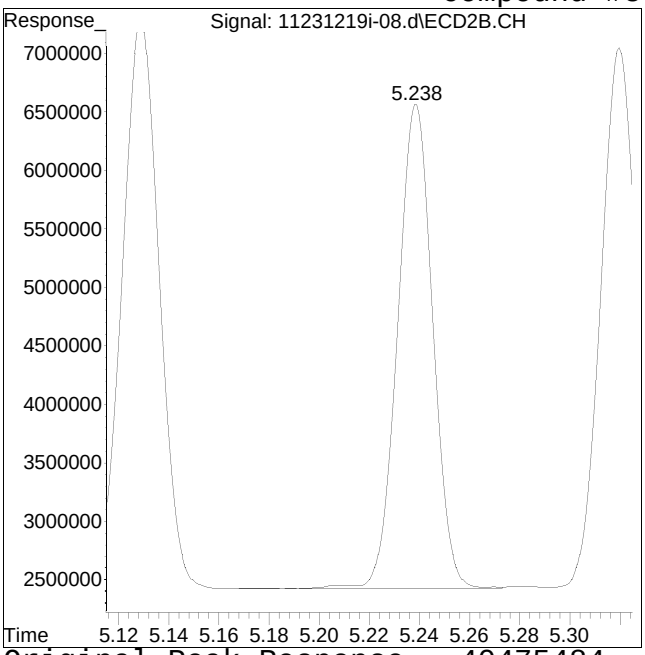
Manual Peak Response = 39106309 M4

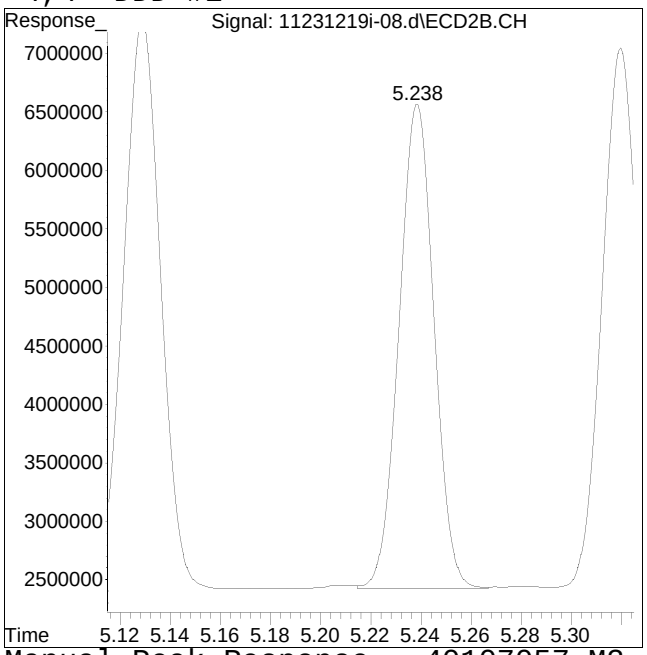
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-08.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 2:47 pm Instrument : Pest 11
Sample : il7pest,42e,,pp 11401 L0.0Quant Date : 12/20/2023 5:40 pm

Compound #57: 4,4'-DDD #2



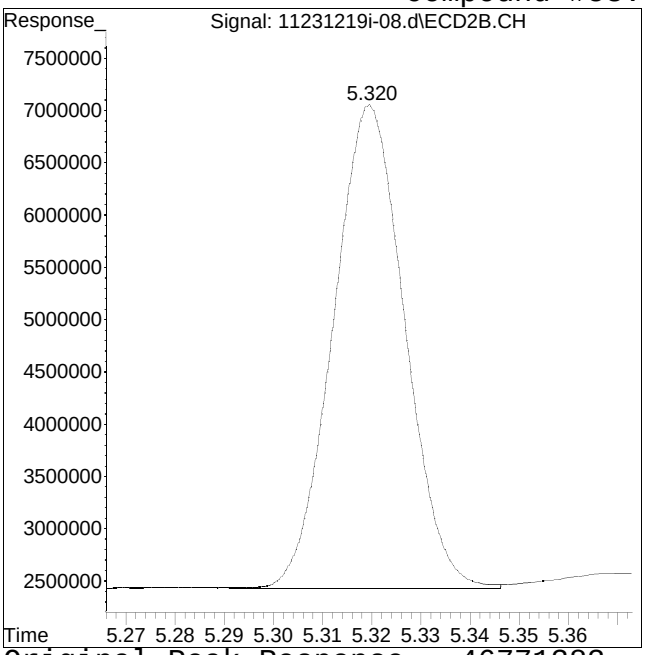


Original Peak Response = 40475484 Manual Peak Response = 40107057 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

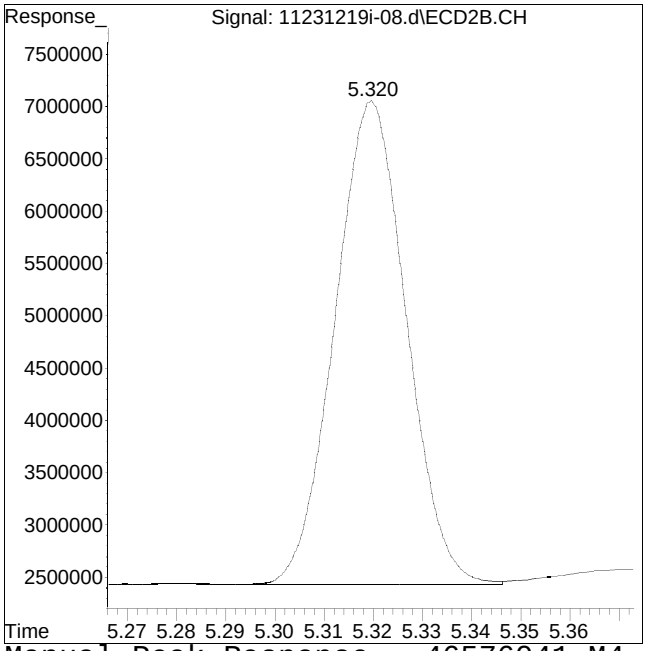
Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-08.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 2:47 pm Instrument : Pest 11
Sample : il7pest,42e,,pp 11401 L0.0Quant Date : 12/20/2023 5:40 pm

Compound #58: Endosulfan II #2



Original Peak Response = 46771383



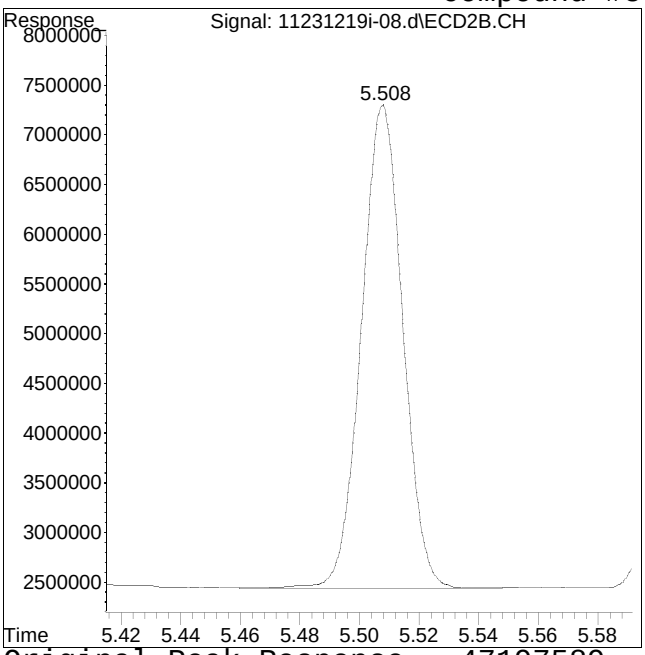
Manual Peak Response = 46576041 M4

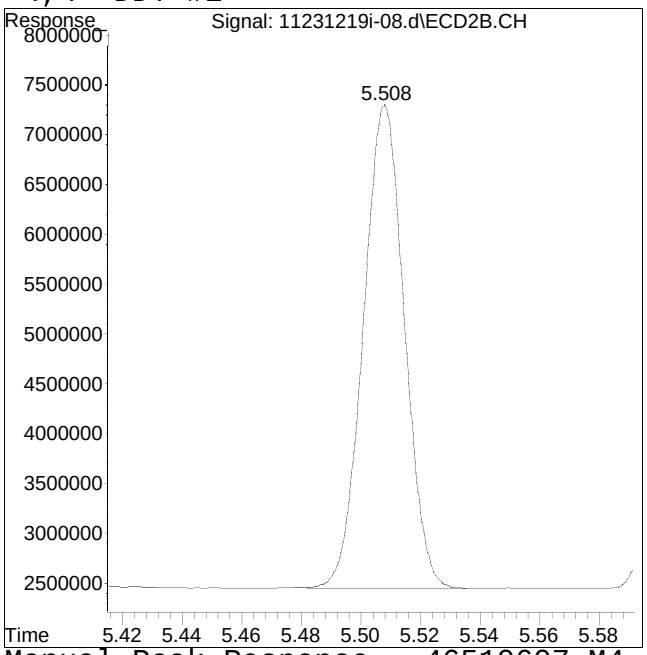
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-08.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 2:47 pm Instrument : Pest 11
Sample : il7pest,42e,,pp 11401 L0.0Quant Date : 12/20/2023 5:40 pm

Compound #59: 4,4'-DDT #2



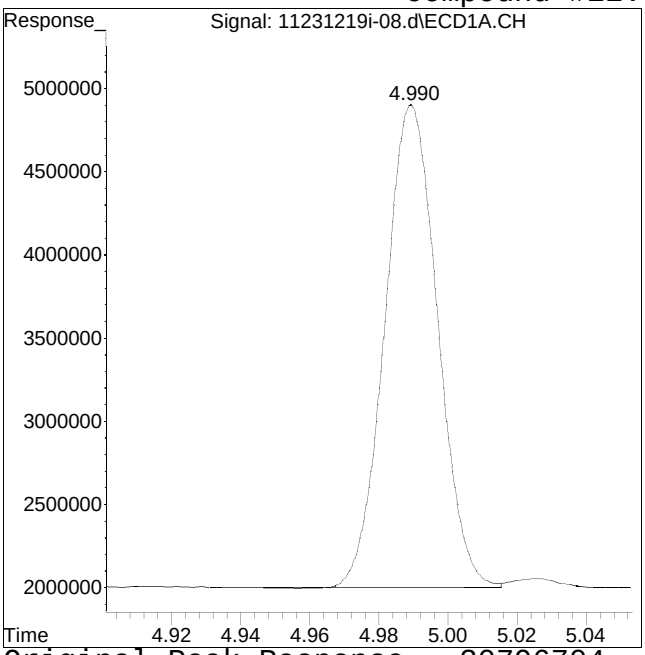


Original Peak Response = 47197589 Manual Peak Response = 46510607 M4
M4 = Poor automated baseline construction.

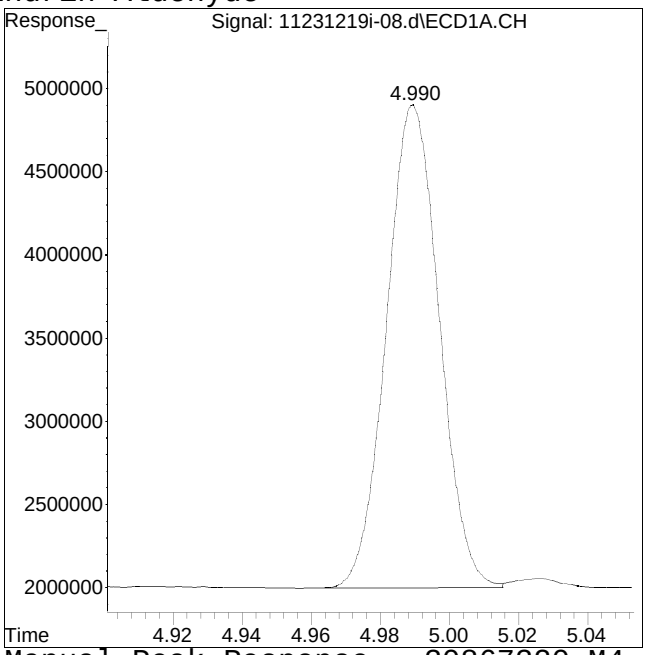
Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-08.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 2:47 pm Instrument : Pest 11
Sample : il7pest,42e,,pp 11401 L0.0Quant Date : 12/20/2023 5:40 pm

Compound #22: Endrin Aldehyde



Original Peak Response = 30796704



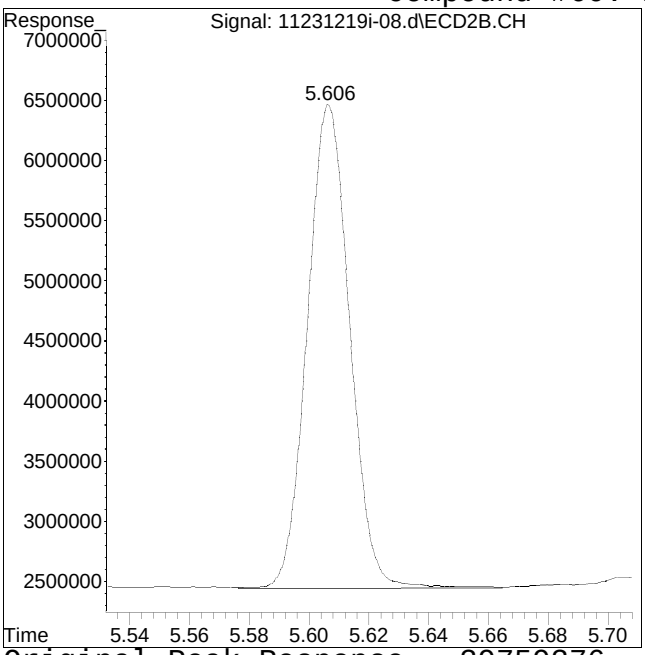
Manual Peak Response = 30867320 M4

M4 = Poor automated baseline construction.

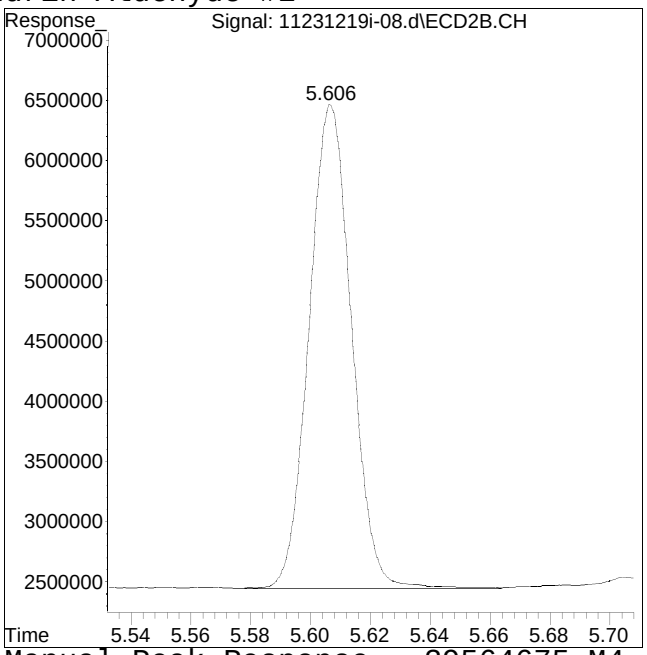
Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-08.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 2:47 pm Instrument : Pest 11
Sample : il7pest,42e,,pp 11401 L0.0Quant Date : 12/20/2023 5:40 pm

Compound #60: Endrin Aldehyde #2



Original Peak Response = 39759376



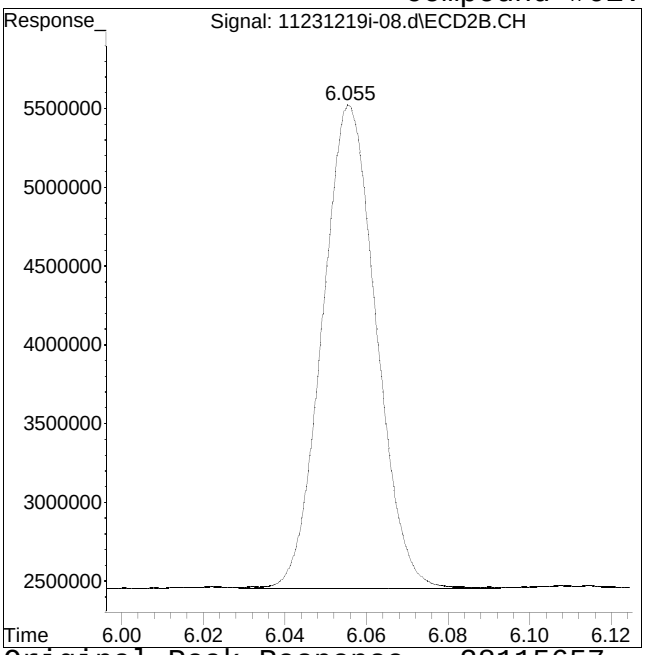
Manual Peak Response = 39564675 M4

M4 = Poor automated baseline construction.

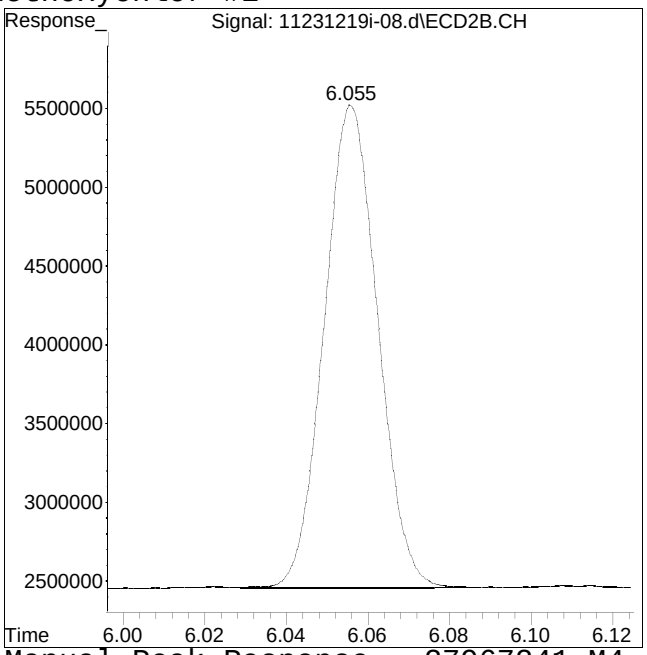
Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-08.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 2:47 pm Instrument : Pest 11
Sample : il7pest,42e,,pp 11401 L0.0Quant Date : 12/20/2023 5:40 pm

Compound #61: Methoxychlor #2



Original Peak Response = 28115657



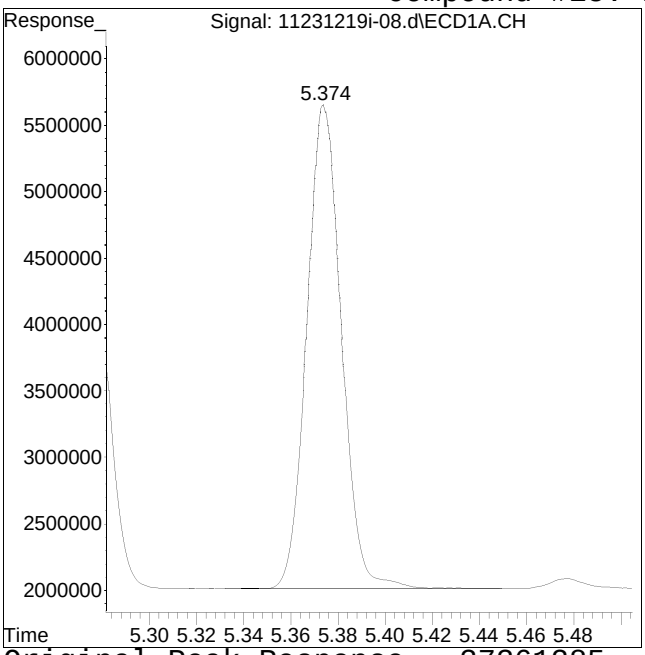
Manual Peak Response = 27967241 M4

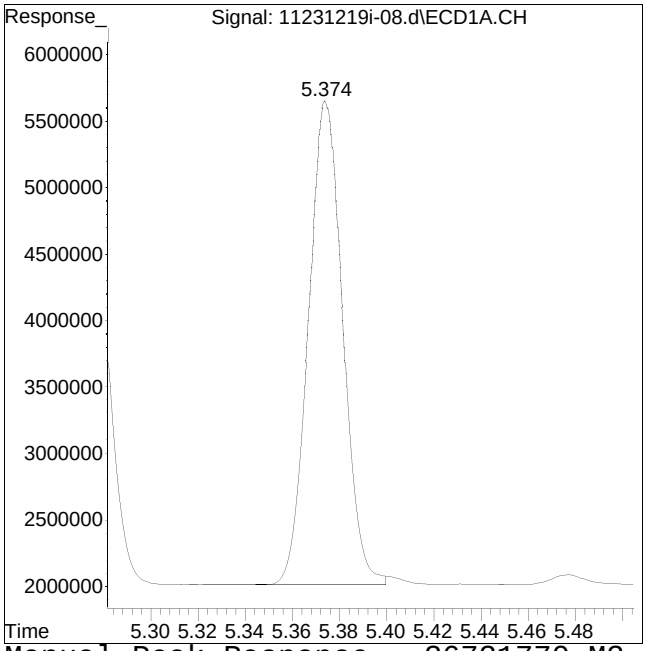
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-08.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 2:47 pm Instrument : Pest 11
Sample : il7pest,42e,,pp 11401 L0.0Quant Date : 12/20/2023 5:40 pm

Compound #25: Endosulfan Sulfate



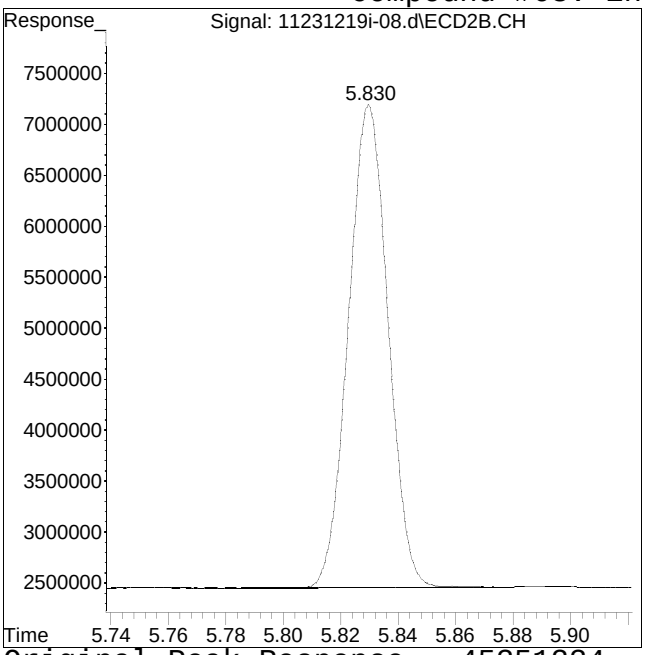


Original Peak Response = 37361285 Manual Peak Response = 36731770 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

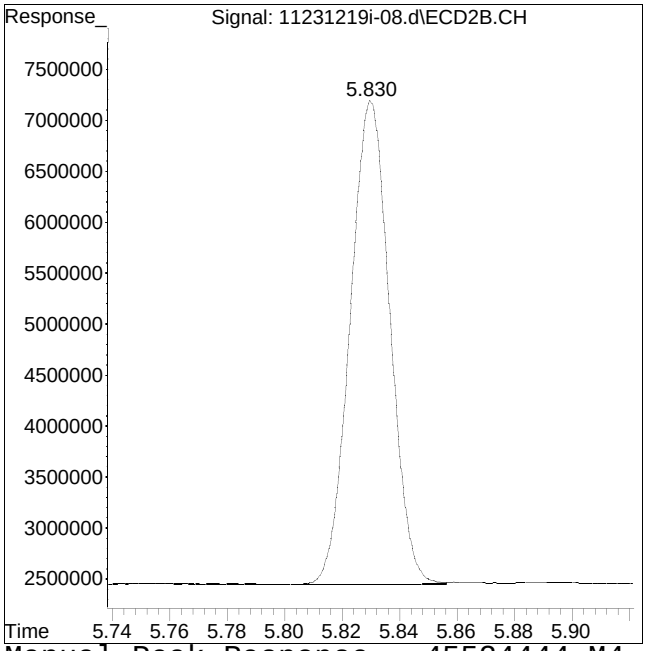
Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-08.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 2:47 pm Instrument : Pest 11
Sample : il7pest,42e,,pp 11401 L0.0Quant Date : 12/20/2023 5:40 pm

Compound #63: Endosulfan Sulfate #2



Original Peak Response = 45351234



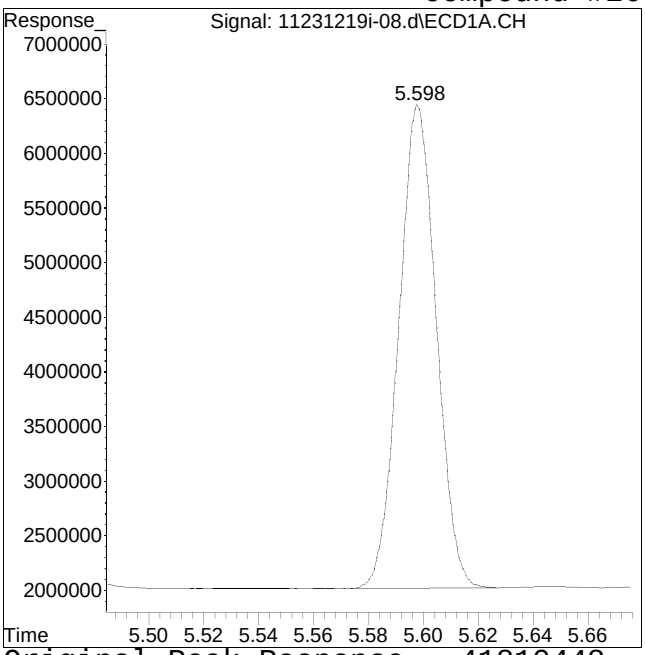
Manual Peak Response = 45524444 M4

M4 = Poor automated baseline construction.

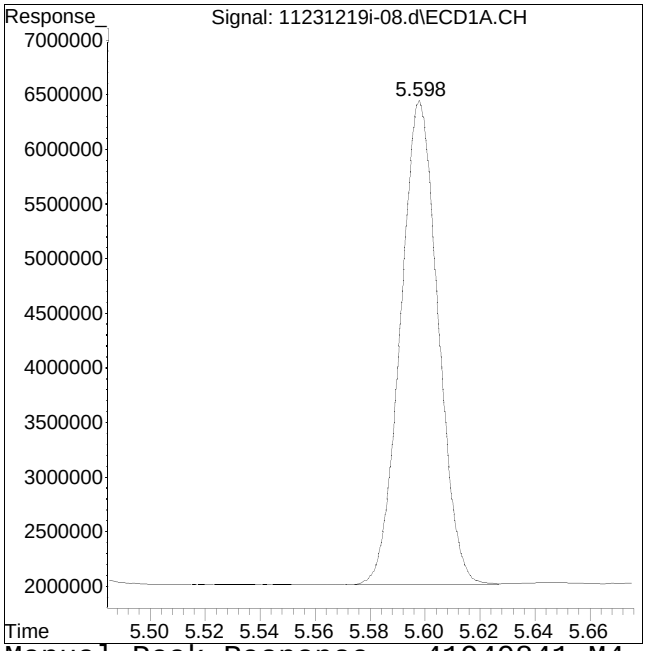
Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-08.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 2:47 pm Instrument : Pest 11
Sample : il7pest,42e,,pp 11401 L0.0Quant Date : 12/20/2023 5:40 pm

Compound #26: Endrin Ketone



Original Peak Response = 41810448



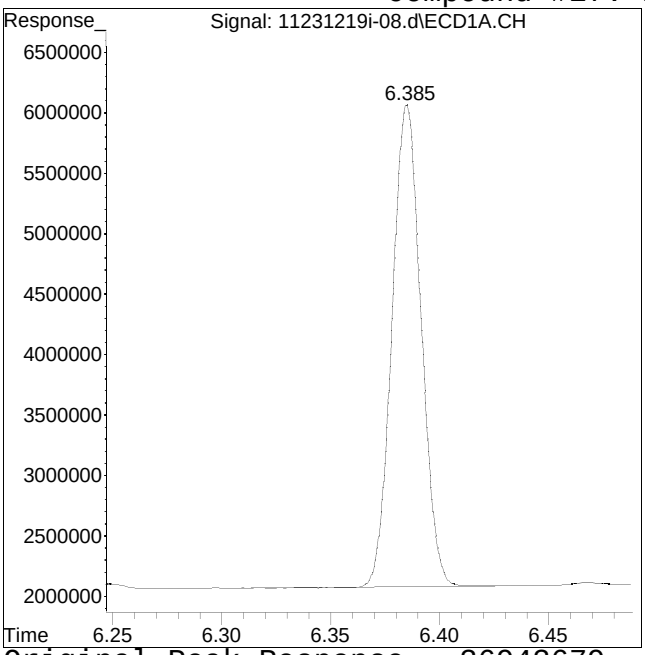
Manual Peak Response = 41940841 M4

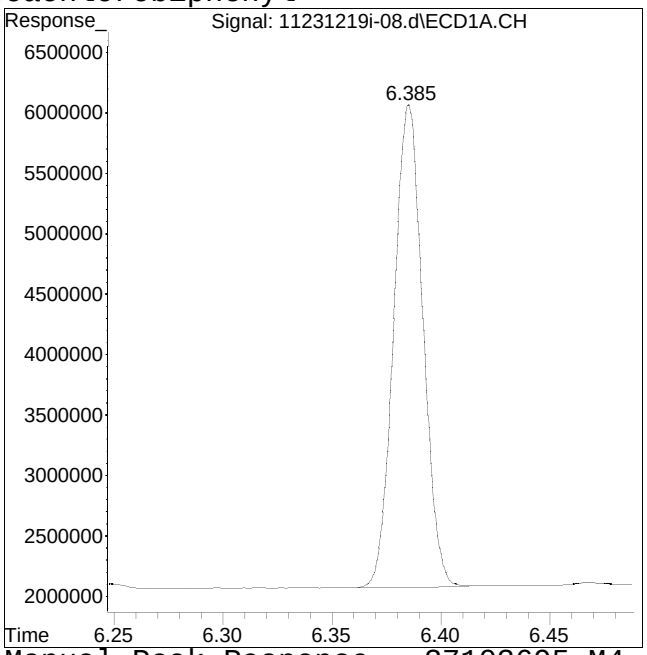
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-08.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 2:47 pm Instrument : Pest 11
Sample : il7pest,42e,,pp 11401 L0.0Quant Date : 12/20/2023 5:40 pm

Compound #27: Decachlorobiphenyl



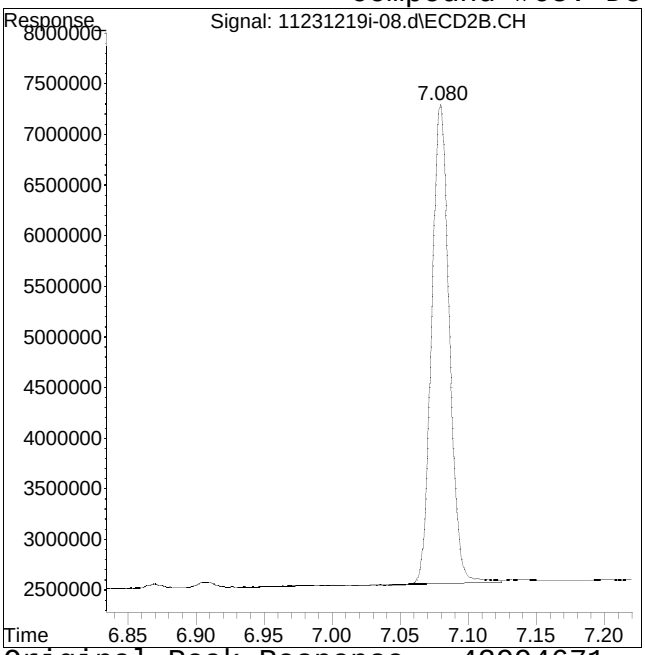


Original Peak Response = 36943679 Manual Peak Response = 37103695 M4
M4 = Poor automated baseline construction.

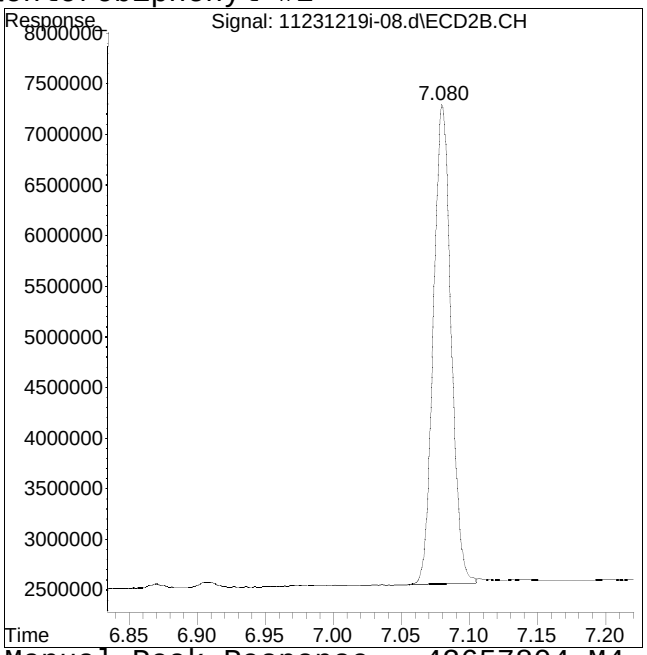
Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-08.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 2:47 pm Instrument : Pest 11
Sample : il7pest,42e,,pp 11401 L0.0Quant Date : 12/20/2023 5:40 pm

Compound #65: Decachlorobiphenyl #2



Original Peak Response = 42994671



Manual Peak Response = 42657804 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2023\231219ICAL\
Data File : 11231219i-09.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 19 Dec 2023 2:59 pm
Operator : PEST11:ejl
Sample : il8pest,42e,,pp 11400 L0.05
Misc : WG1866910,ical (Sig #1); ical (Sig #2)
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 20 17:22:57 2023
Quant Method : I:\PEST\Pest11\2023\231219ICAL\pest11_12_19_23_ugL_ICAL.M
Quant Title : pest
QLast Update : Tue Dec 19 10:23:26 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
		Internal Standards						
1)	i	1-br-2-nb_Pe	1.374	1.480	88294850	119.6E6	25.000M4	25.000M4
28)	i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33)	i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
		System Monitoring Compounds						
2)	s	2,4,5,6-Tetr	1.728	1.985	165.0E6	223.9E6	NoCal M3	NoCal
		Spiked Amount 50.000	Range 30 - 150		Recovery =		0.00%#	0.00%#
27)	s	Decachlorobi	6.386	7.079	163.8E6	185.1E6	NoCal M4	NoCal M4
		Spiked Amount 50.000	Range 30 - 150		Recovery =		0.00%#	0.00%#
		Target Compounds						
3)	t	Hexachlorobe	1.949	2.327	184.0E6	242.9E6	NoCal M3	NoCal
4)	t	alpha-BHC	2.051	2.428	250.6E6	333.5E6	NoCal	NoCal
5)	t	gamma-BHC (l	2.260	2.731	233.2E6	304.3E6	NoCal M3	NoCal
6)	t	beta-BHC	2.318	2.797	100.2E6	132.6E6	NoCal	NoCal M3
7)	t	delta-BHC	2.451	3.080	237.3E6	307.1E6	NoCal	NoCal
8)	t	Heptachlor	2.619	3.151	230.1E6	304.2E6	NoCal	NoCal
9)	t	Aldrin	2.870	3.487	212.7E6	281.2E6	NoCal	NoCal
10)	t	Alachlor	2.993	3.359	31207487	40826491	NoCal	NoCal
11)	t	Chlorpyrifos	3.087	3.729	103.5E6	147.6E6	NoCal	NoCal
12)	t	Heptachlor E	3.430	4.128	205.0E6	267.9E6	NoCal	NoCal M4
13)	t	gamma-Chlord	3.557	4.347	183.3E6	239.4E6	NoCal	NoCal
14)	t	alpha-Chlord	3.695	4.506	209.2E6	265.3E6	NoCal	NoCal
15)	t	4,4'-DDE	3.792	4.688	200.7E6	258.2E6	NoCal	NoCal
16)	t	Endosulfan I	3.836	4.565	194.9E6	247.4E6	NoCal	NoCal
17)	t	Dieldrin	4.101	4.842	200.6E6	252.5E6	NoCal	NoCal M4
18)	t	Endrin	4.353	5.129	208.5E6	255.2E6	NoCal	NoCal M4
19)	t	4,4'-DDD	4.454	5.239	164.0E6	202.4E6	NoCal	NoCal
20)	t	Endosulfan I	4.584	5.320	187.5E6	223.1E6	NoCal	NoCal M4
21)	t	4,4'-DDT	4.738	5.508	192.0E6	231.7E6	NoCal	NoCal M4

Data Path : I:\PEST\Pest11\2023\231219ICAL\
Data File : 11231219i-09.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 19 Dec 2023 2:59 pm
Operator : PEST11:ejl
Sample : il8pest,42e,,pp 11400 L0.05
Misc : WG1866910,ical (Sig #1); ical (Sig #2)
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 20 17:22:57 2023
Quant Method : I:\PEST\Pest11\2023\231219ICAL\pest11_12_19_23_ugL_ICAL.M
Quant Title : pest
QLast Update : Tue Dec 19 10:23:26 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
22) t	Endrin Aldeh	4.991	5.607	154.3E6	185.3E6	NoCal	NoCal M4
23) t	Methoxychlor	5.212	6.056	106.9E6	122.4E6	NoCal	NoCal
24) t	Mirex	5.273	6.205	163.1E6	177.8E6	NoCal M4	NoCal
25) t	Endosulfan S	5.374	5.829	177.6E6	211.6E6	NoCal M3	NoCal M3
26) t	Endrin Keton	5.599	6.237	206.7E6	234.1E6	NoCal	NoCal
29) l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000

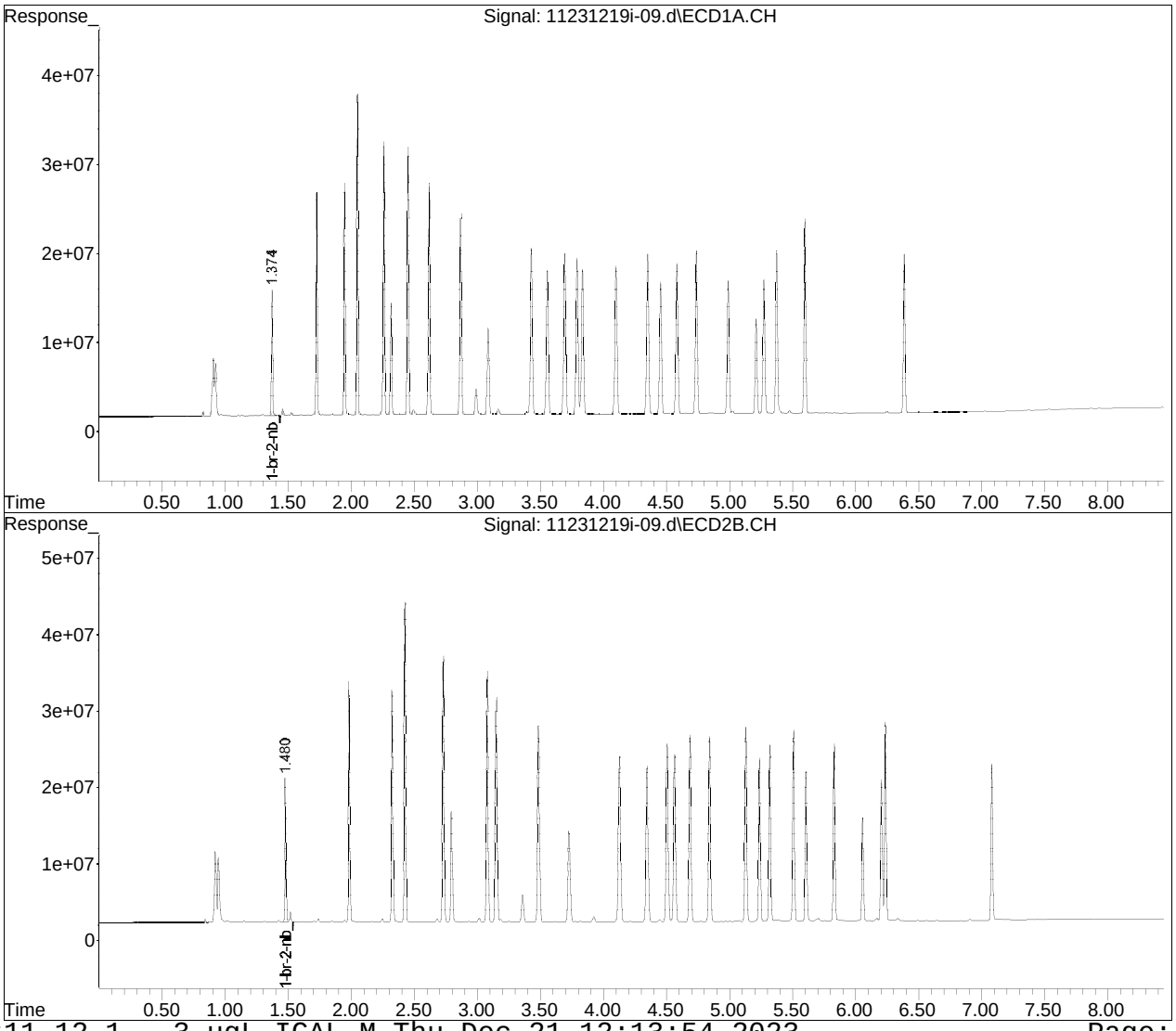
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest11\2023\231219ICAL\
Data File : 11231219i-09.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 19 Dec 2023 2:59 pm
Operator : PEST11:ejl
Sample : il8pest,42e,,pp 11400 L0.05
Misc : WG1866910,ical (Sig #1); ical (Sig #2)
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 20 17:22:57 2023
Quant Method : I:\PEST\Pest11\2023\231219ICAL\pest11_12_19_23_ugL_ICAL.M
Quant Title : pest
QLast Update : Tue Dec 19 10:23:26 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

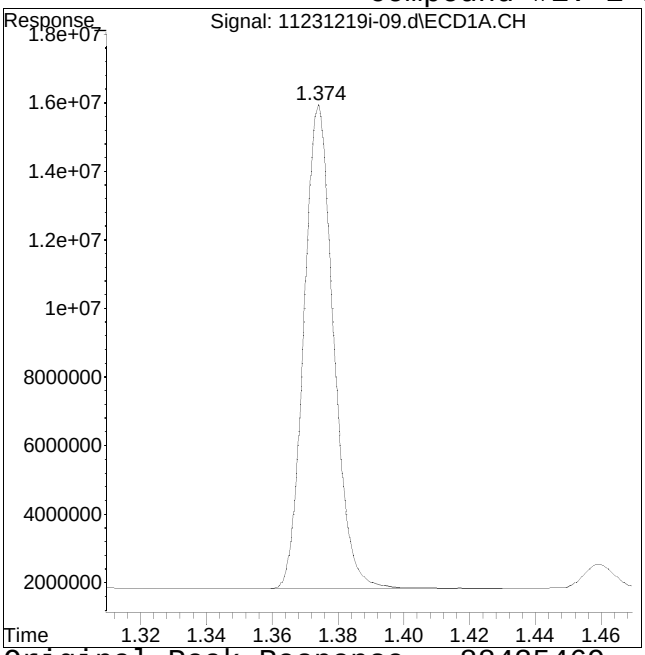
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

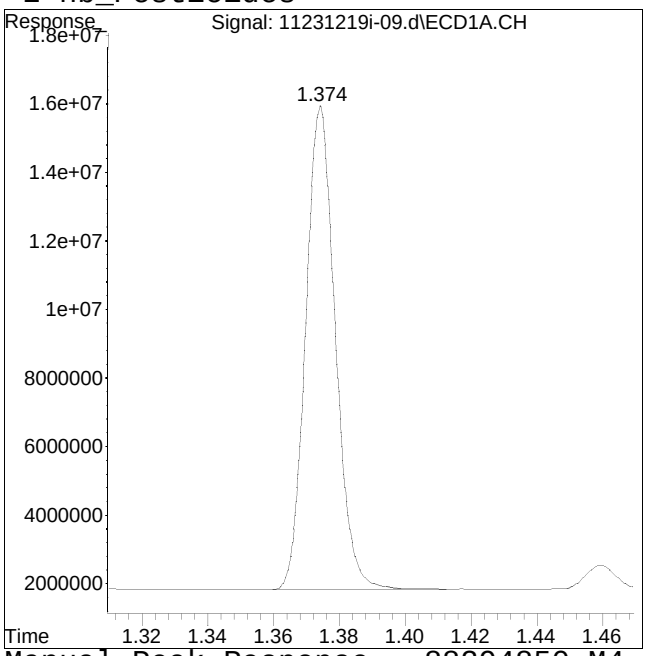


Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-09.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 2:59 pm Instrument : Pest 11
Sample : il8pest,42e,,pp 11400 L0.0Quant Date : 12/20/2023 5:19 pm

Compound #1: 1-br-2-nb_Pesticides



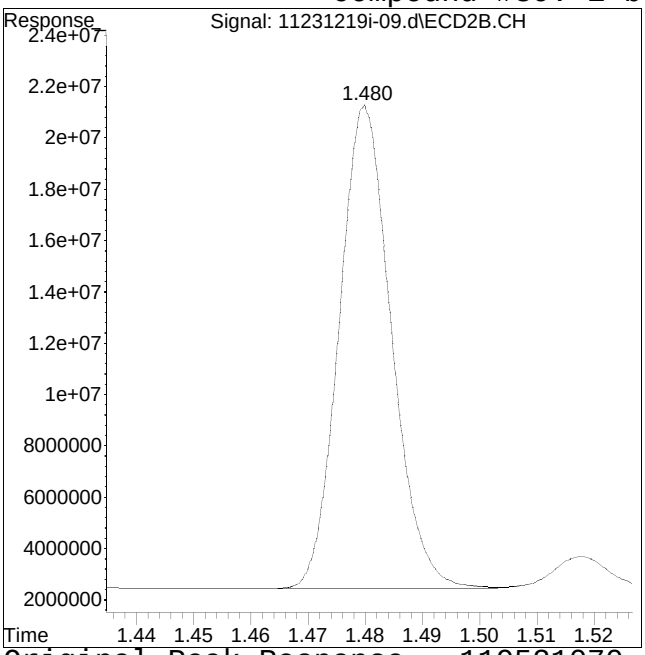


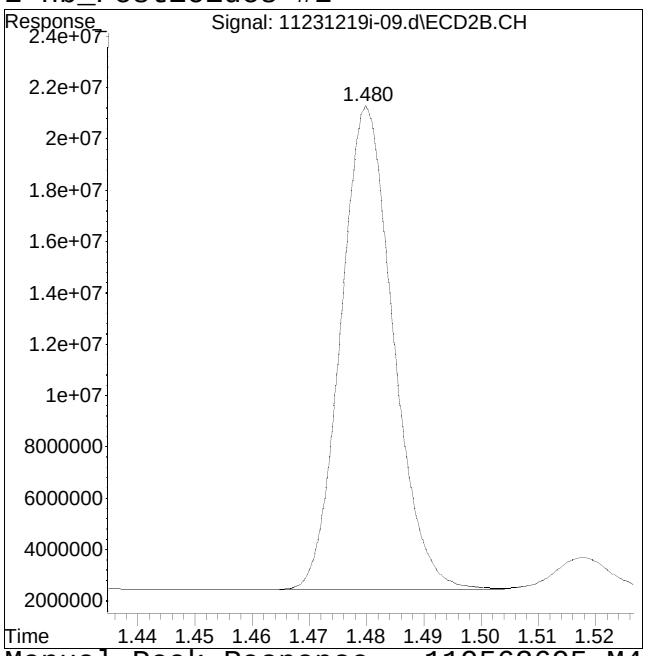
Original Peak Response = 88435469 Manual Peak Response = 88294850 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-09.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 2:59 pm Instrument : Pest 11
Sample : il8pest,42e,,pp 11400 L0.0Quant Date : 12/20/2023 5:19 pm

Compound #39: 1-br-2-nb_Pesticides #2



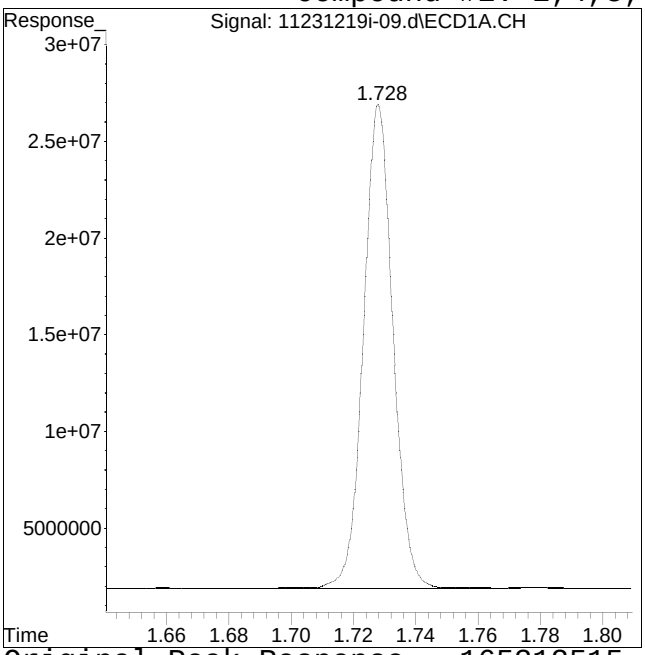


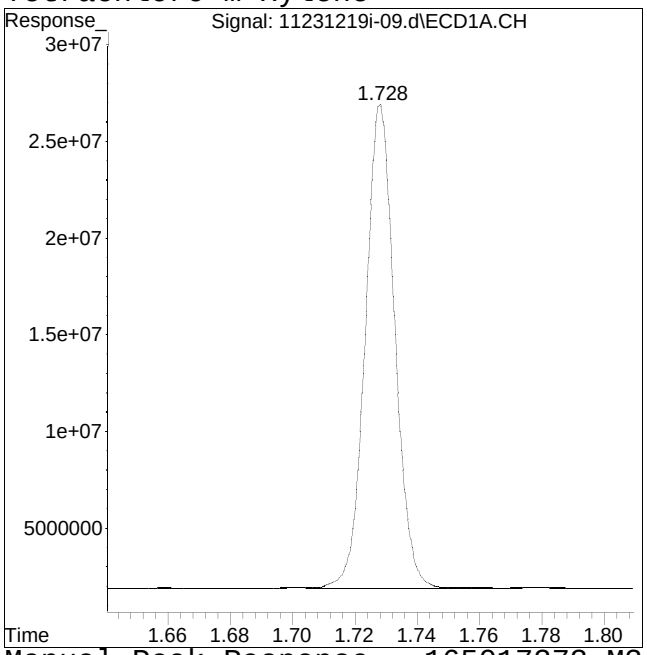
Original Peak Response = 119521070 Manual Peak Response = 119563695 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-09.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 2:59 pm Instrument : Pest 11
Sample : il8pest,42e,,pp 11400 L0.0Quant Date : 12/20/2023 5:19 pm

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



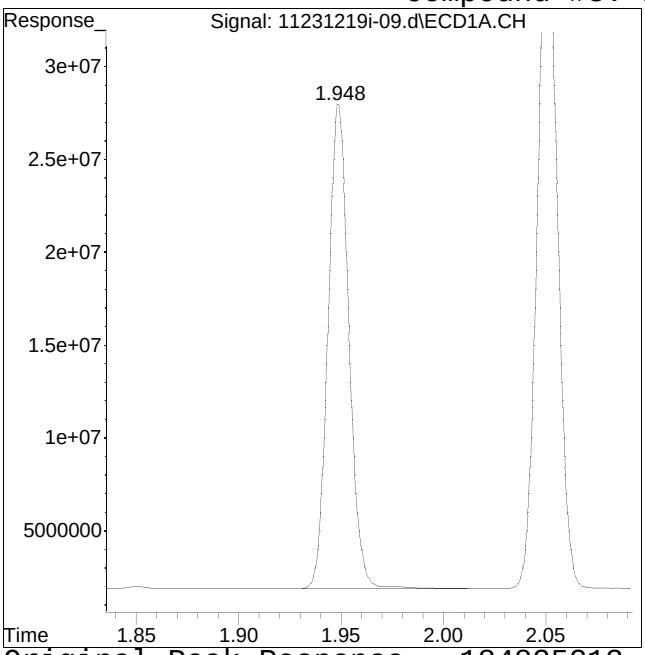


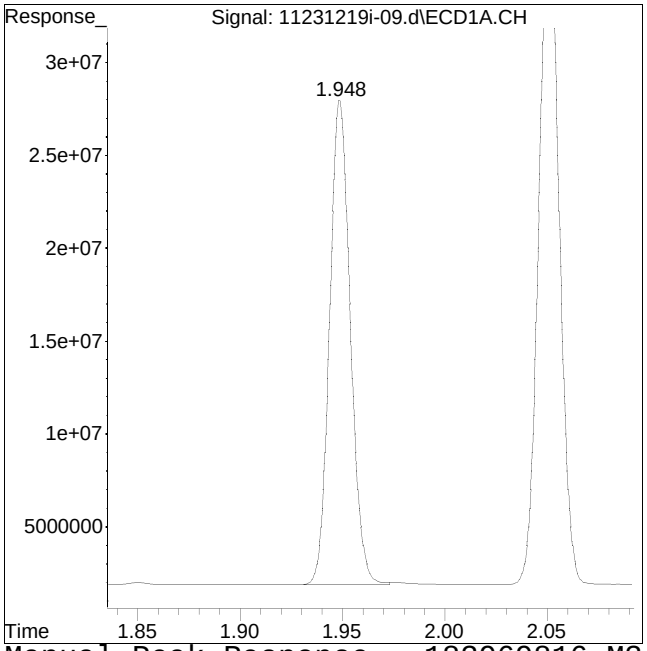
Original Peak Response = 165312515 Manual Peak Response = 165017373 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-09.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 2:59 pm Instrument : Pest 11
Sample : il8pest,42e,,pp 11400 L0.0Quant Date : 12/20/2023 5:19 pm

Compound #3: Hexachlorobenzene



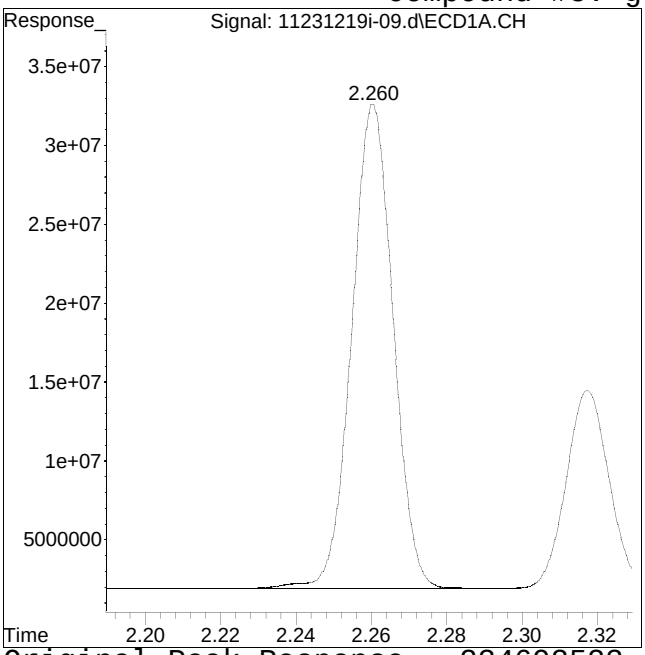


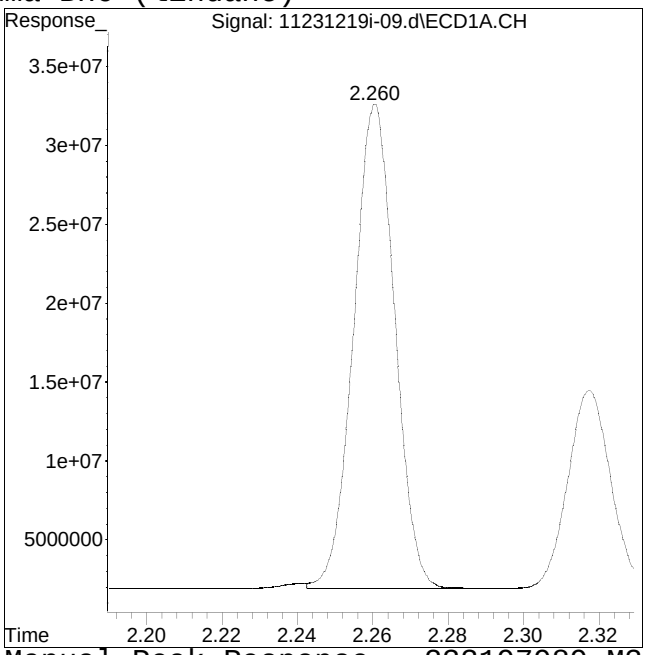
Original Peak Response = 184825213 Manual Peak Response = 183969816 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-09.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 2:59 pm Instrument : Pest 11
Sample : il8pest,42e,,pp 11400 L0.0Quant Date : 12/20/2023 5:19 pm

Compound #5: gamma-BHC (lindane)



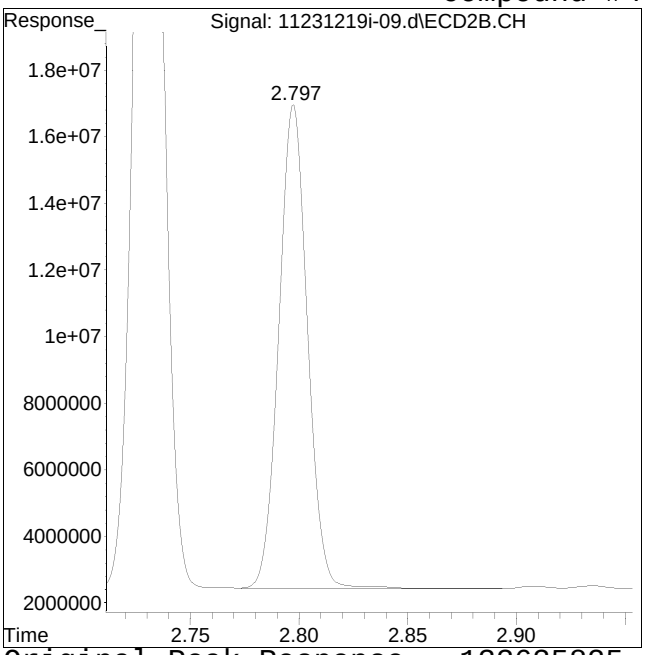


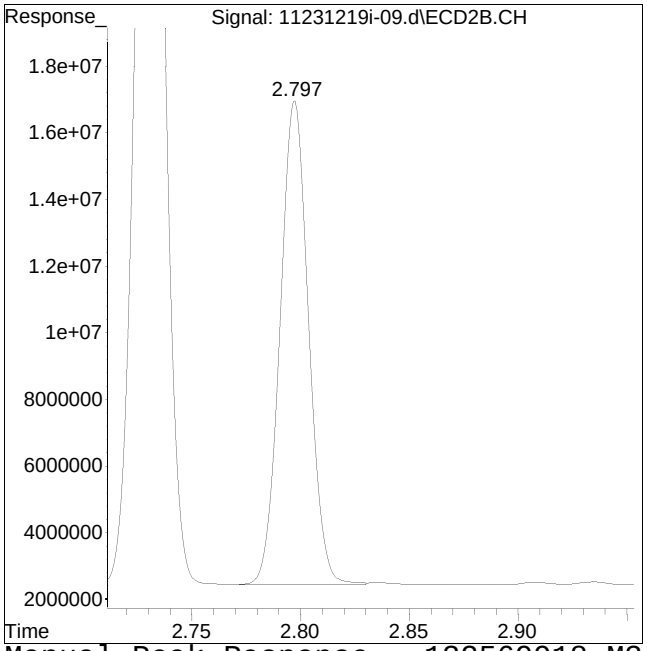
Original Peak Response = 234692523 Manual Peak Response = 233197989 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-09.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 2:59 pm Instrument : Pest 11
Sample : il8pest,42e,,pp 11400 L0.0Quant Date : 12/20/2023 5:19 pm

Compound #44: beta-BHC #2



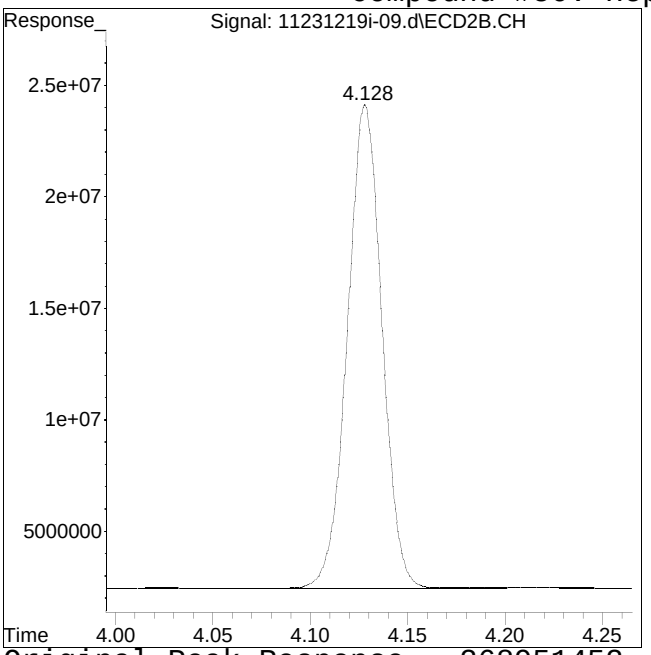


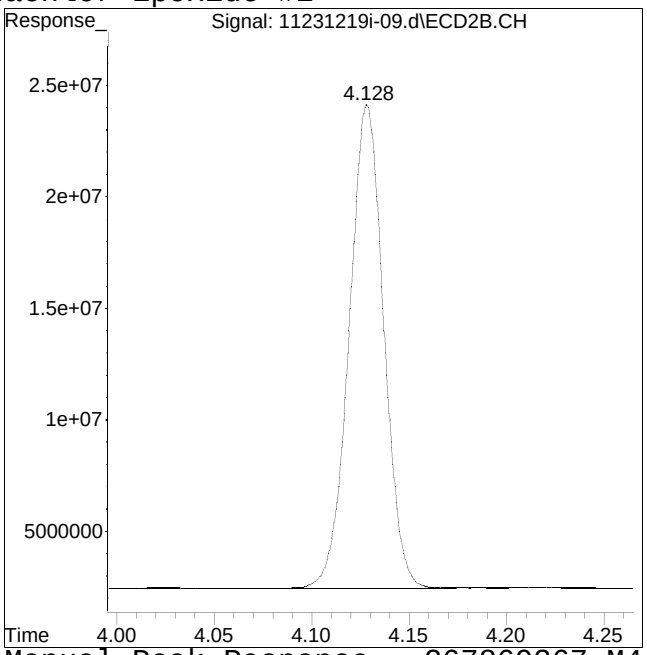
Original Peak Response = 133635825 Manual Peak Response = 132569918 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-09.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 2:59 pm Instrument : Pest 11
Sample : il8pest,42e,,pp 11400 L0.0Quant Date : 12/20/2023 5:19 pm

Compound #50: Heptachlor Epoxide #2



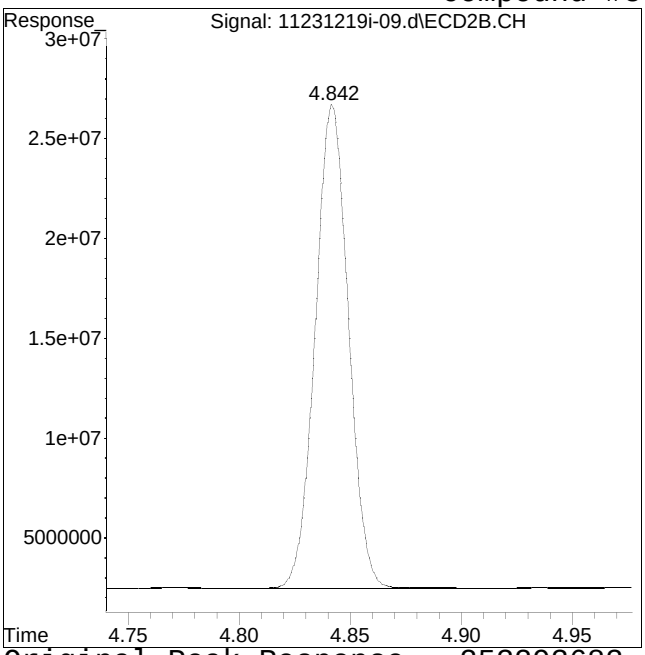


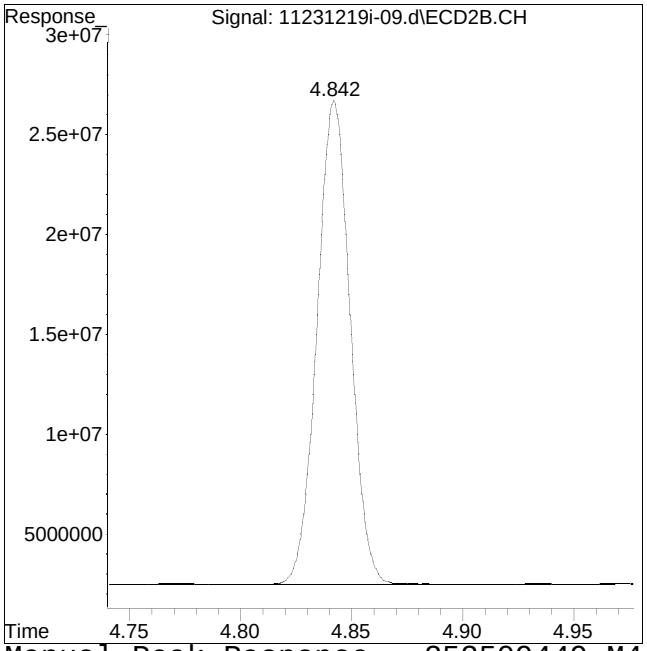
Original Peak Response = 268951452 Manual Peak Response = 267869367 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-09.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 2:59 pm Instrument : Pest 11
Sample : il8pest,42e,,pp 11400 L0.0Quant Date : 12/20/2023 5:19 pm

Compound #55: Dieldrin #2



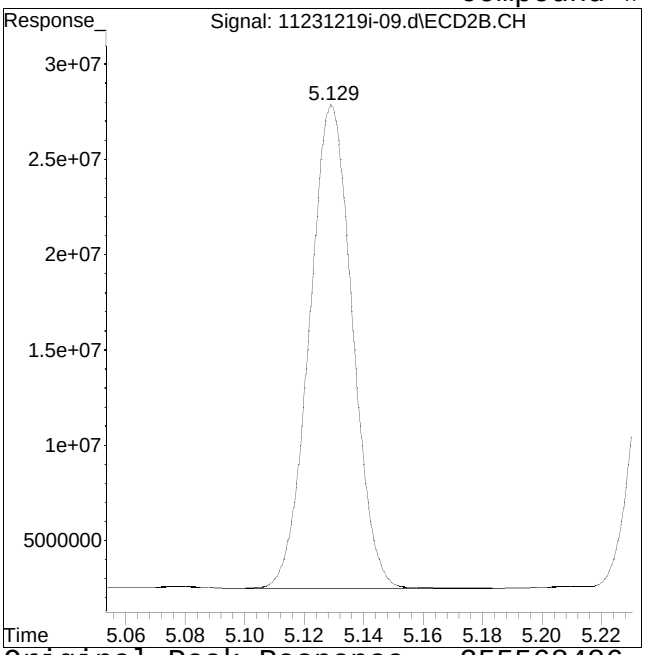


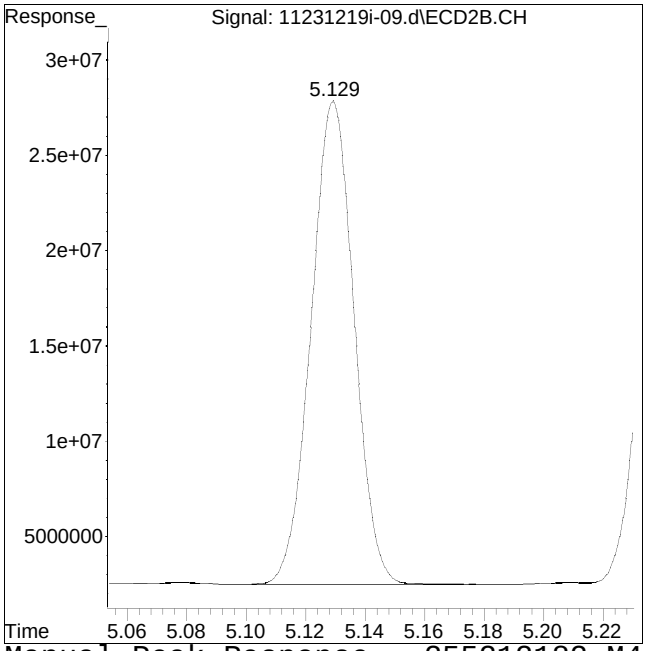
Original Peak Response = 253293683 Manual Peak Response = 252509449 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-09.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 2:59 pm Instrument : Pest 11
Sample : il8pest,42e,,pp 11400 L0.0Quant Date : 12/20/2023 5:19 pm

Compound #56: Endrin #2



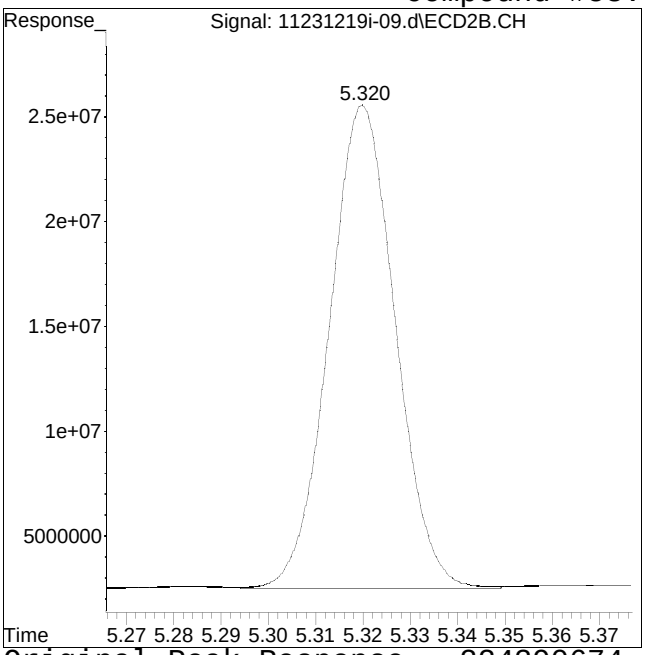


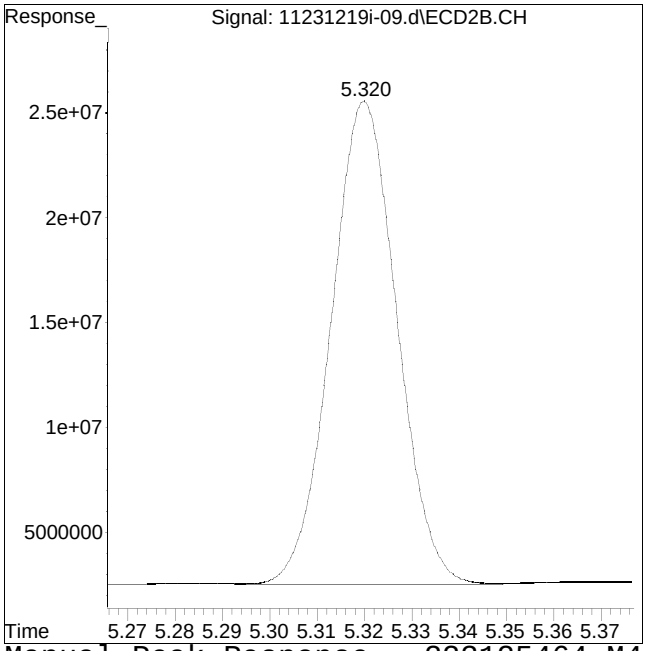
Original Peak Response = 255568486 Manual Peak Response = 255212182 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-09.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 2:59 pm Instrument : Pest 11
Sample : il8pest,42e,,pp 11400 L0.0Quant Date : 12/20/2023 5:19 pm

Compound #58: Endosulfan II #2



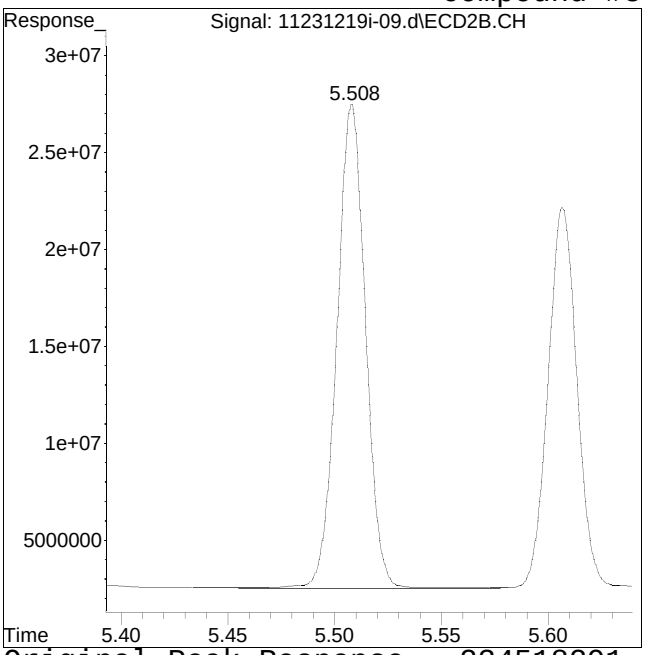


Original Peak Response = 224390674 Manual Peak Response = 223125464 M4
M4 = Poor automated baseline construction.

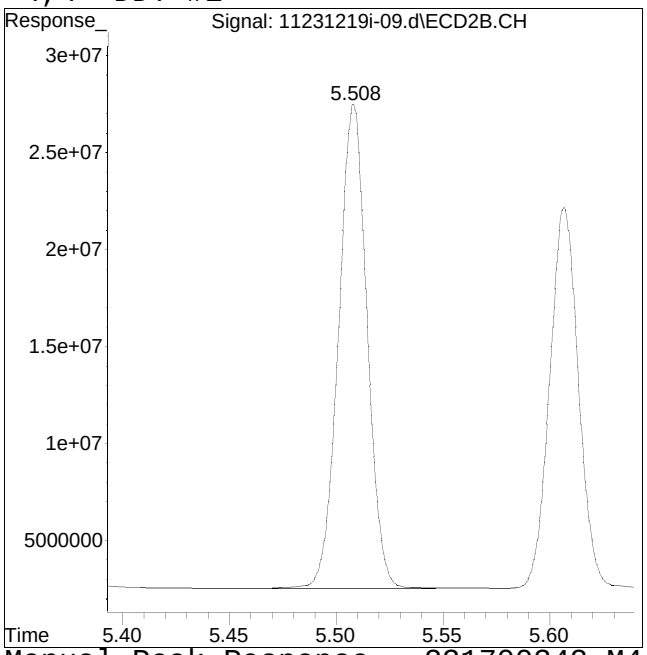
Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-09.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 2:59 pm Instrument : Pest 11
Sample : il8pest,42e,,pp 11400 L0.0Quant Date : 12/20/2023 5:19 pm

Compound #59: 4,4'-DDT #2



Original Peak Response = 234518291



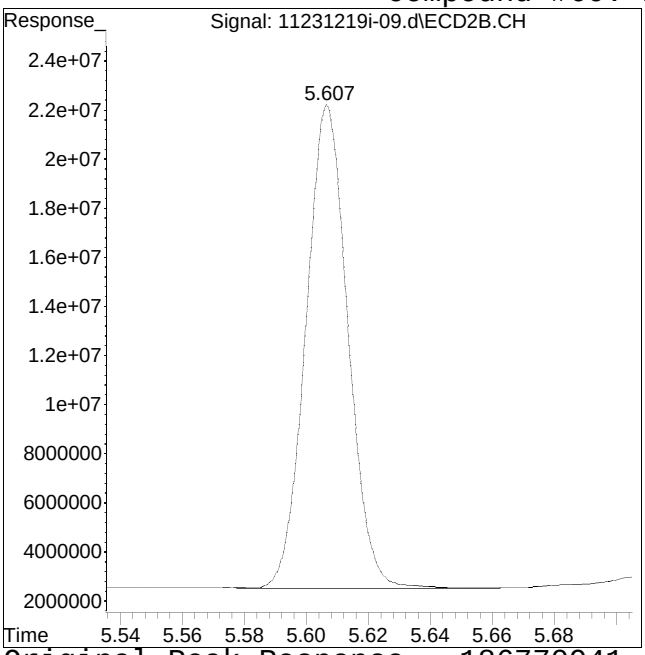
Manual Peak Response = 231700342 M4

M4 = Poor automated baseline construction.

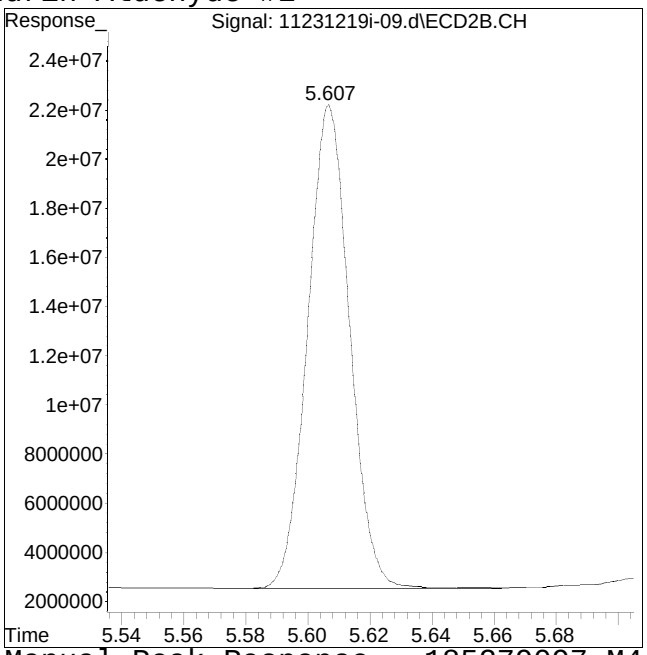
Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-09.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 2:59 pm Instrument : Pest 11
Sample : il8pest,42e,,pp 11400 L0.0Quant Date : 12/20/2023 5:19 pm

Compound #60: Endrin Aldehyde #2



Original Peak Response = 186770941



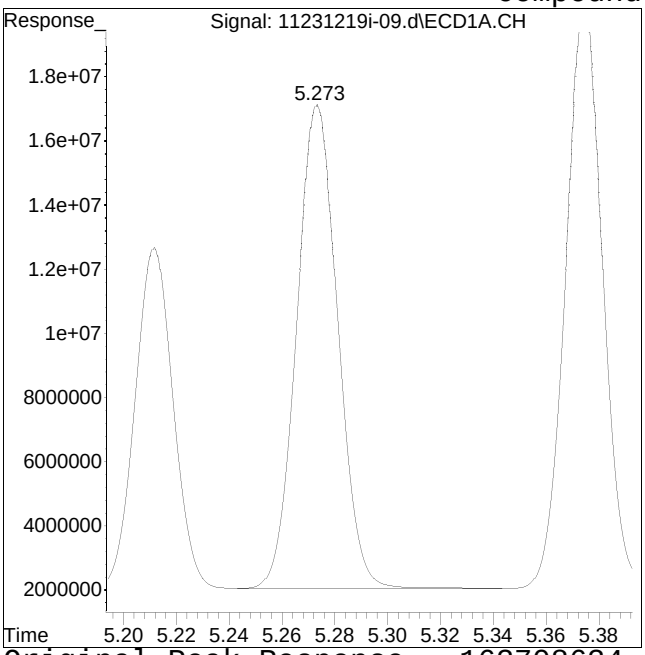
Manual Peak Response = 185279097 M4

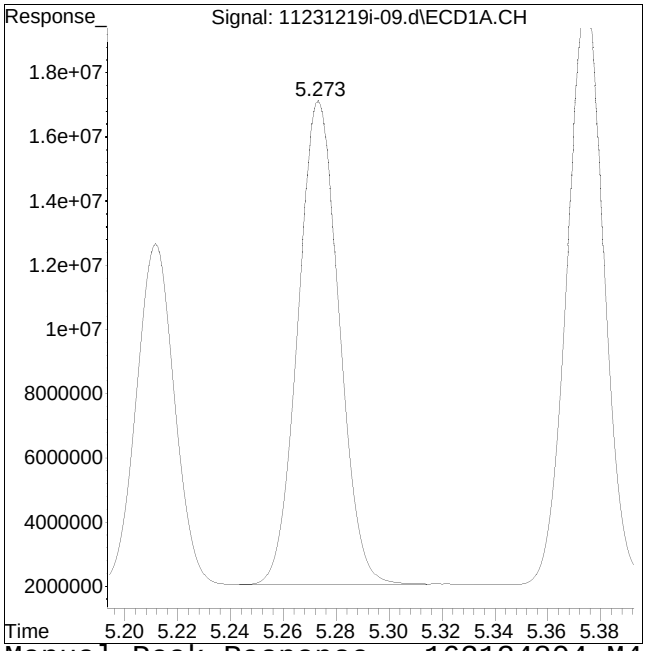
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-09.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 2:59 pm Instrument : Pest 11
Sample : il8pest,42e,,pp 11400 L0.0Quant Date : 12/20/2023 5:19 pm

Compound #24: Mirex



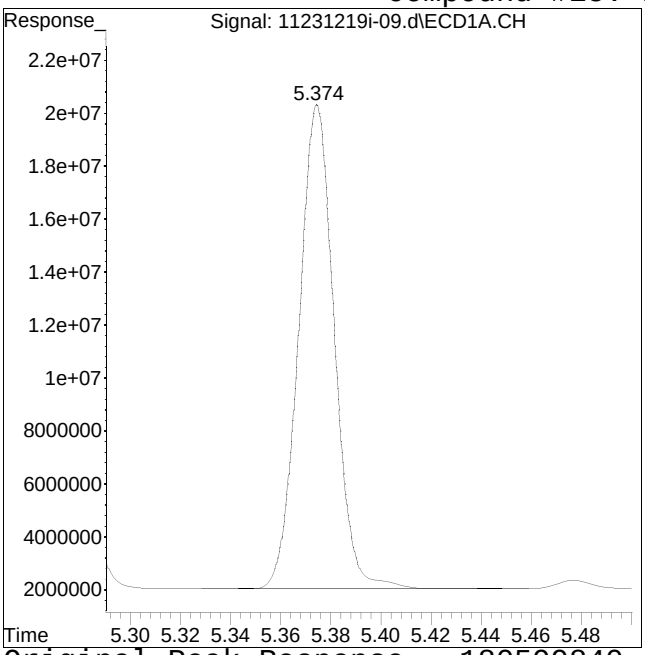


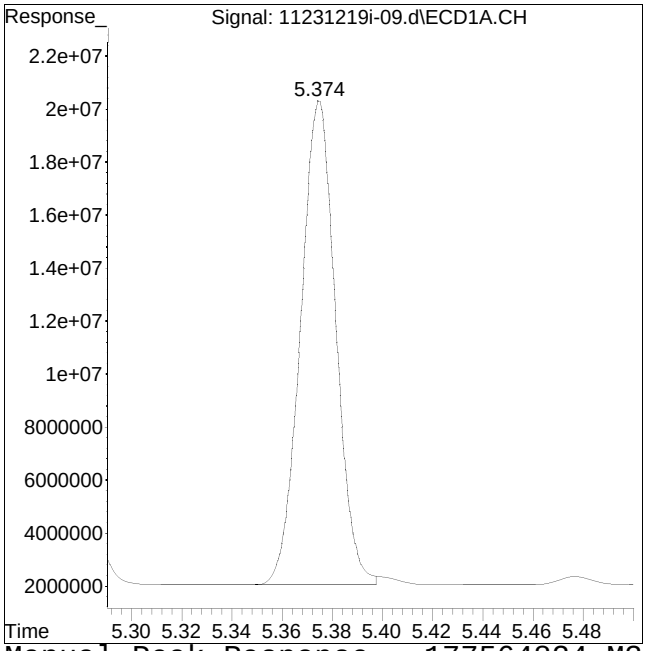
Original Peak Response = 163708634 Manual Peak Response = 163134804 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-09.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 2:59 pm Instrument : Pest 11
Sample : il8pest,42e,,pp 11400 L0.0Quant Date : 12/20/2023 5:19 pm

Compound #25: Endosulfan Sulfate



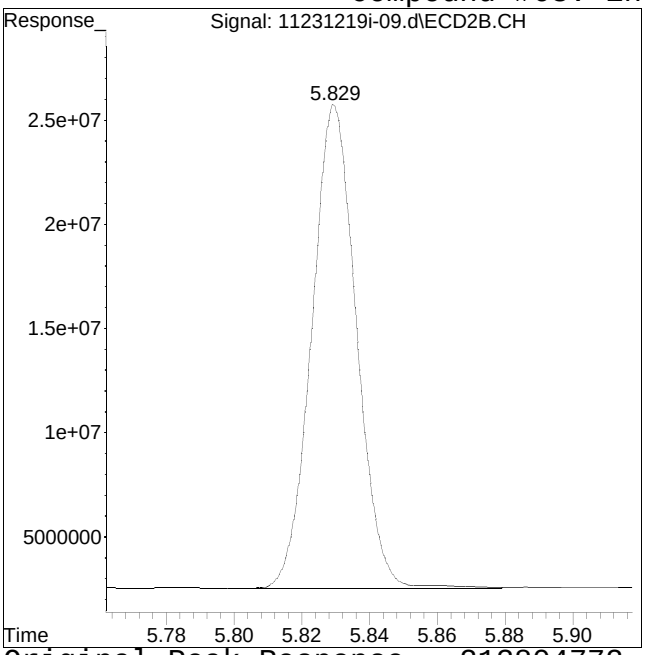


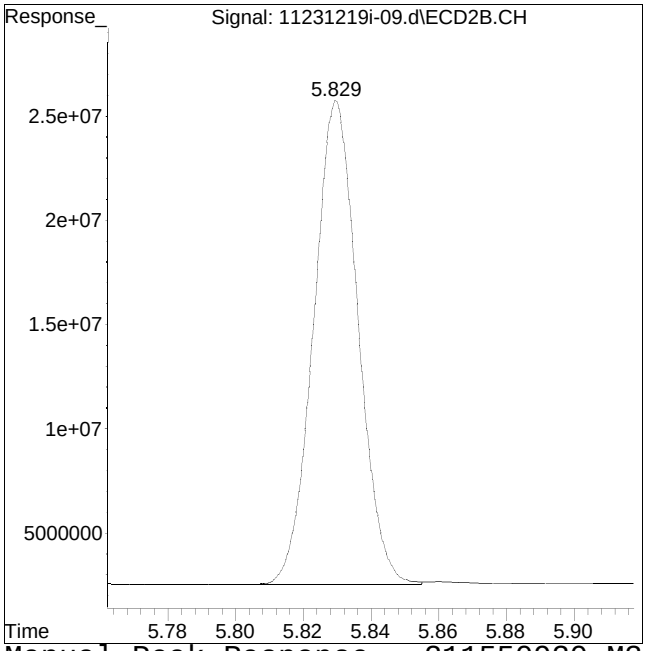
Original Peak Response = 180599840 Manual Peak Response = 177564824 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-09.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 2:59 pm Instrument : Pest 11
Sample : il8pest,42e,,pp 11400 L0.0Quant Date : 12/20/2023 5:19 pm

Compound #63: Endosulfan Sulfate #2



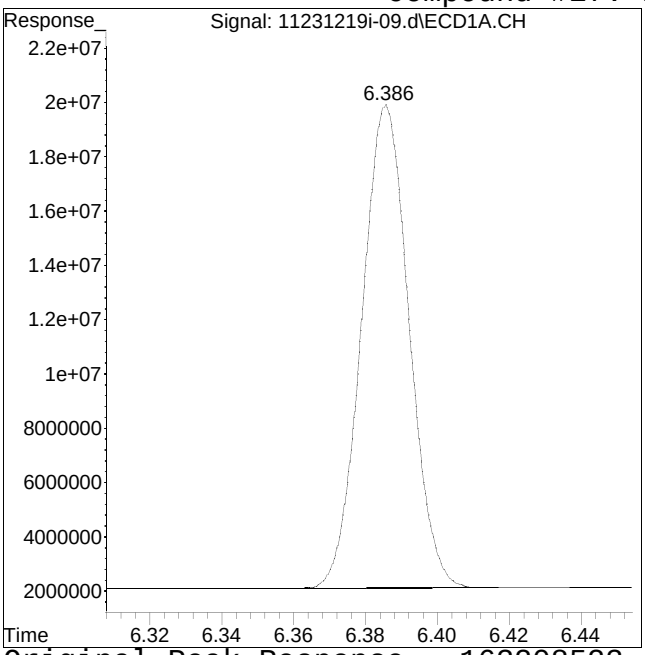


Original Peak Response = 213804772 Manual Peak Response = 211550930 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

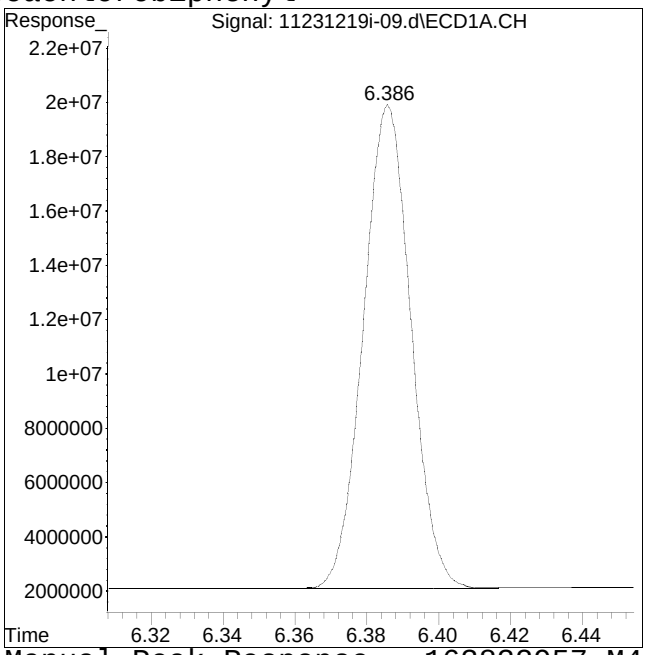
Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-09.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 2:59 pm Instrument : Pest 11
Sample : il8pest,42e,,pp 11400 L0.0Quant Date : 12/20/2023 5:19 pm

Compound #27: Decachlorobiphenyl



Original Peak Response = 163208523



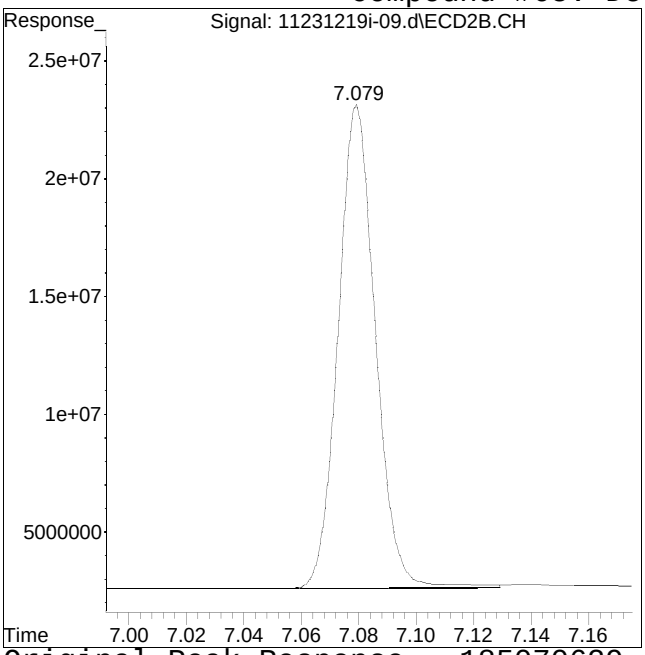
Manual Peak Response = 163832957 M4

M4 = Poor automated baseline construction.

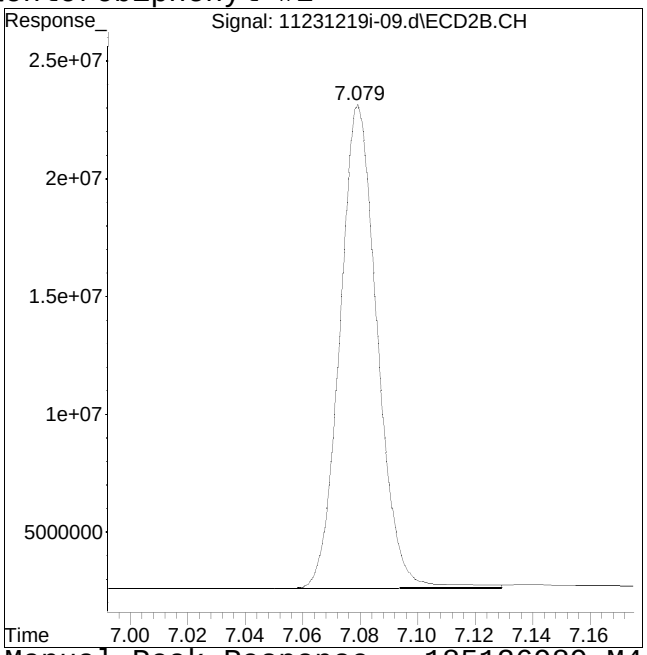
Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-09.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 2:59 pm Instrument : Pest 11
Sample : il8pest,42e,,pp 11400 L0.0Quant Date : 12/20/2023 5:19 pm

Compound #65: Decachlorobiphenyl #2



Original Peak Response = 185070629



Manual Peak Response = 185126989 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2023\231219ICAL\
Data File : 11231219i-10.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 19 Dec 2023 3:11 pm
Operator : PEST11:ejl
Sample : il9pest,42e,,pp 11399 L0.1
Misc : WG1866910,ical (Sig #1); ical (Sig #2)
ALS Vial : 10 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 20 17:28:37 2023
Quant Method : I:\PEST\Pest11\2023\231219ICAL\pest11_12_19_23_ugL_ICAL.M
Quant Title : pest
QLast Update : Wed Dec 20 17:23:20 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
		Internal Standards						
1)	i	1-br-2-nb_Pe	1.375	1.481	85146249	114.5E6	25.000M4	25.000
28)	i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33)	i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
		System Monitoring Compounds						
2)	s	2,4,5,6-Tetr	1.729	1.986	323.6E6	435.0E6	101.661M3	101.462
		Spiked Amount	50.000	Range 30 - 150		Recovery =	203.32%#	202.92%#
27)	s	Decachlorobi	6.386	7.079	316.4E6	356.2E6	100.147M4	100.486M4
		Spiked Amount	50.000	Range 30 - 150		Recovery =	200.29%#	200.97%#
		Target Compounds						
3)	t	Hexachlorobe	1.949	2.327	355.6E6	466.8E6	100.217M3	100.389
4)	t	alpha-BHC	2.052	2.428	504.7E6	667.2E6	104.415	104.484
5)	t	gamma-BHC (l	2.261	2.732	465.5E6	603.8E6	103.488M3	103.625
6)	t	beta-BHC	2.318	2.798	194.5E6	254.0E6	100.642	100.079M3
7)	t	delta-BHC	2.452	3.081	478.8E6	613.2E6	104.602	104.302
8)	t	Heptachlor	2.619	3.152	453.8E6	595.6E6	102.256M4	102.273
9)	t	Aldrin	2.870	3.488	426.9E6	558.6E6	104.077	103.757
10)	t	Alachlor	2.994	3.359	57528995	73098602	95.580	93.514M4
11)	t	Chlorpyrifos	3.087	3.729	193.6E6	271.5E6	96.958	96.053
12)	t	Heptachlor E	3.431	4.129	404.4E6	526.2E6	102.276	102.596
13)	t	gamma-Chlord	3.557	4.347	366.4E6	473.0E6	103.654M3	103.182M4
14)	t	alpha-Chlord	3.695	4.506	416.8E6	521.6E6	103.288	102.675M4
15)	t	4,4'-DDE	3.793	4.688	411.3E6	516.5E6	106.245	104.506M4
16)	t	Endosulfan I	3.836	4.565	386.5E6	485.1E6	102.850M4	102.382M4
17)	t	Dieldrin	4.102	4.842	405.2E6	503.5E6	104.755	104.140M4
18)	t	Endrin	4.353	5.129	419.6E6	508.3E6	104.352	104.015M4
19)	t	4,4'-DDD	4.455	5.238	335.3E6	405.1E6	106.003M4	104.553M4

Data Path : I:\PEST\Pest11\2023\231219ICAL\
Data File : 11231219i-10.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 19 Dec 2023 3:11 pm
Operator : PEST11:ejl
Sample : il9pest,42e,,pp 11399 L0.1
Misc : WG1866910,ical (Sig #1); ical (Sig #2)
ALS Vial : 10 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 20 17:28:37 2023
Quant Method : I:\PEST\Pest11\2023\231219ICAL\pest11_12_19_23_ugL_ICAL.M
Quant Title : pest
QLast Update : Wed Dec 20 17:23:20 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
20) t	Endosulfan I	4.584	5.320	370.4E6	437.1E6	102.420M4	102.324M4
21) t	4,4'-DDT	4.738	5.508	389.8E6	458.7E6	105.282M4	103.397M3
22) t	Endrin Aldeh	4.990	5.607	309.1E6	367.2E6	103.863M4	103.507M4
23) t	Methoxychlor	5.212	6.056	205.4E6	234.6E6	99.638M4	100.119M4
24) t	Mirex	5.274	6.206	314.4E6	339.2E6	99.931M4	99.657
25) t	Endosulfan S	5.375	5.830	349.4E6	412.8E6	102.028M3	101.913M3
26) t	Endrin Keton	5.599	6.236	404.3E6	455.6E6	101.407M3	101.627M3
29) l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2023\231219ICAL\
Data File : 11231219i-10.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 19 Dec 2023 3:11 pm
Operator : PEST11:ejl
Sample : il9pest,42e,,pp 11399 L0.1
Misc : WG1866910,ical (Sig #1); ical (Sig #2)
ALS Vial : 10 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 20 17:28:37 2023
Quant Method : I:\PEST\Pest11\2023\231219ICAL\pest11_12_19_23_ugL_ICAL.M
Quant Title : pest
QLast Update : Wed Dec 20 17:23:20 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l

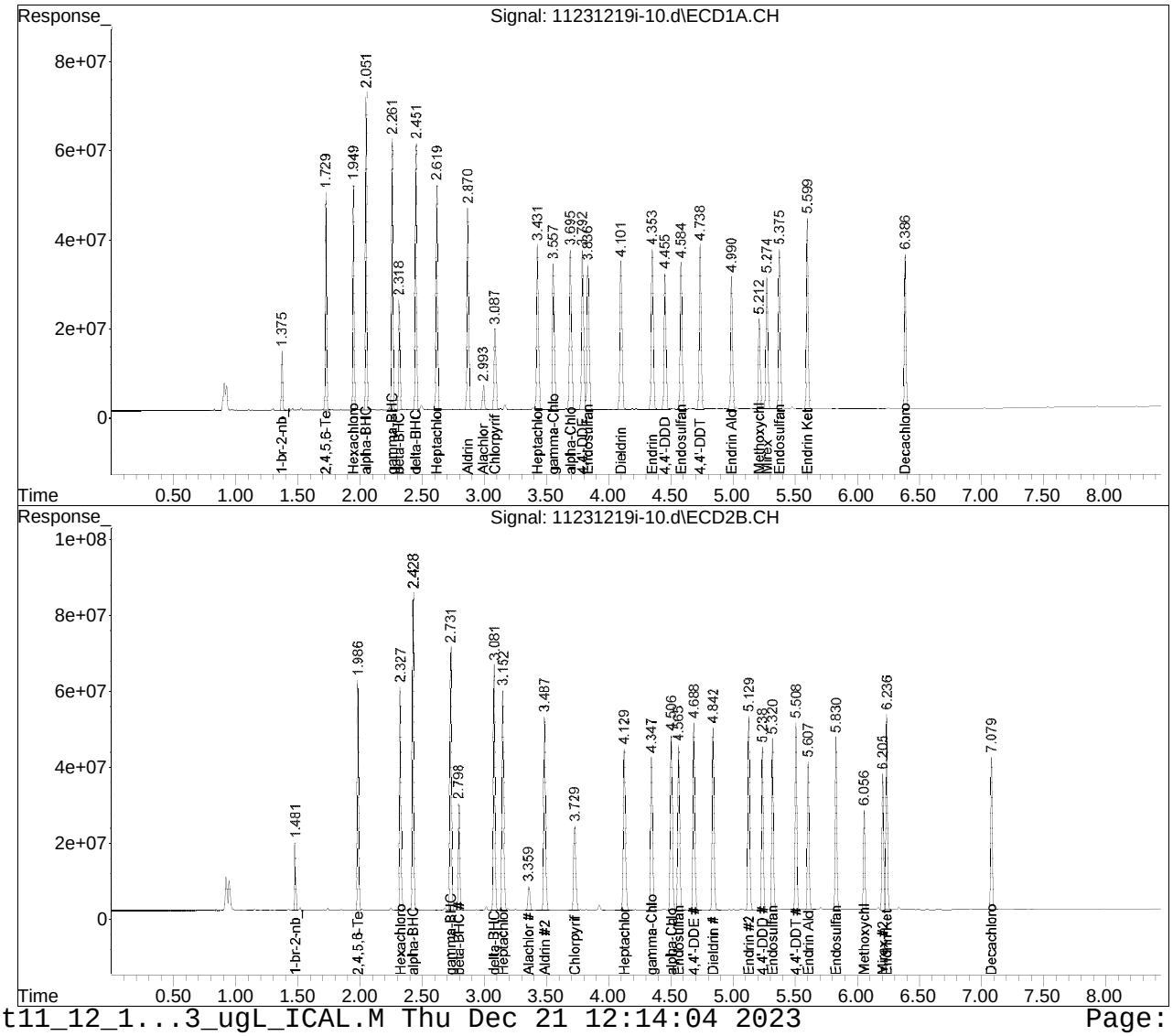
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest11\2023\231219ICAL\
Data File : 11231219i-10.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 19 Dec 2023 3:11 pm
Operator : PEST11:ejl
Sample : il9pest,42e,,pp 11399 L0.1
Misc : WG1866910,ical (Sig #1); ical (Sig #2)
ALS Vial : 10 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 20 17:28:37 2023
Quant Method : I:\PEST\Pest11\2023\231219ICAL\pest11_12_19_23_ugL_ICAL.M
Quant Title : pest
QLast Update : Wed Dec 20 17:23:20 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

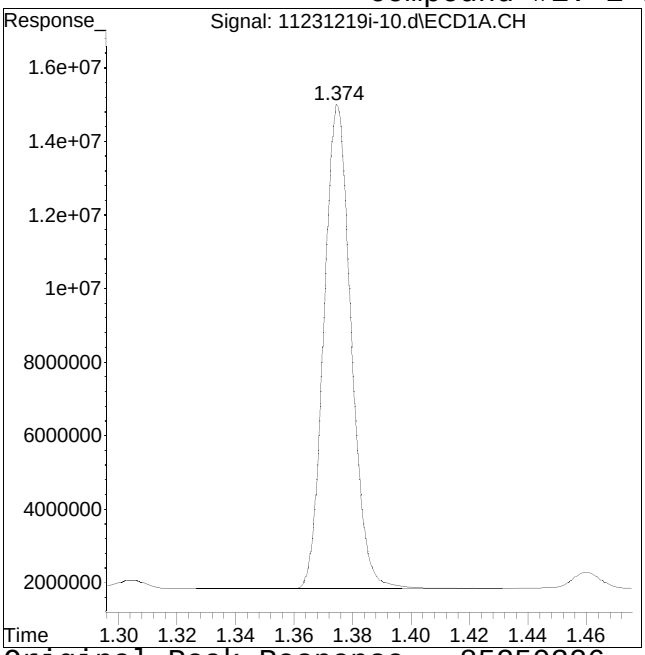
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

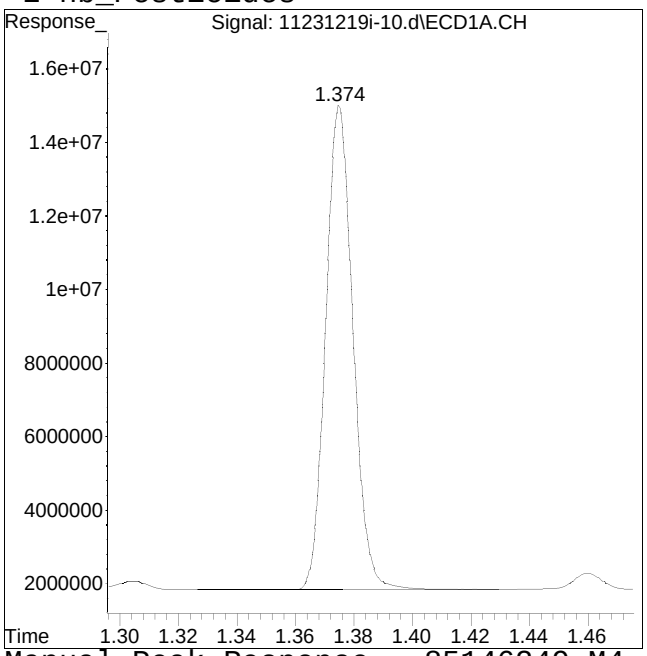


Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-10.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 3:11 pm Instrument : Pest 11
Sample : il9pest,42e,,pp 11399 L0.1Quant Date : 12/20/2023 5:23 pm

Compound #1: 1-br-2-nb_Pesticides



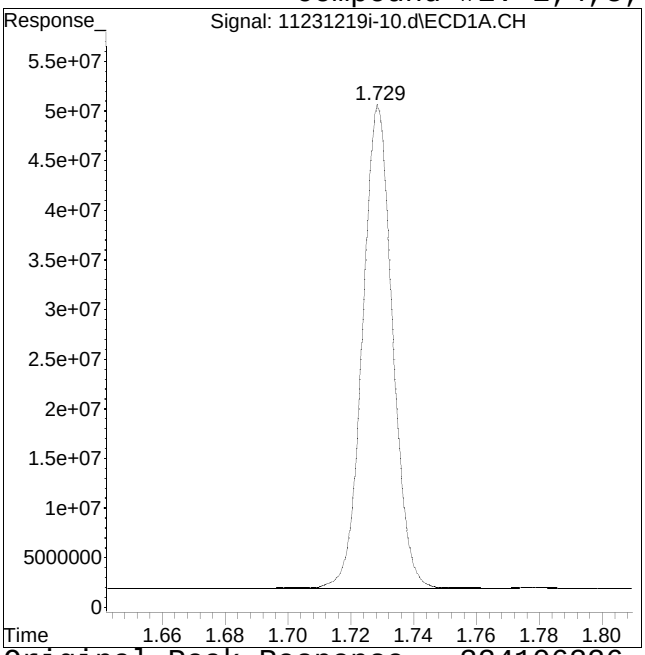


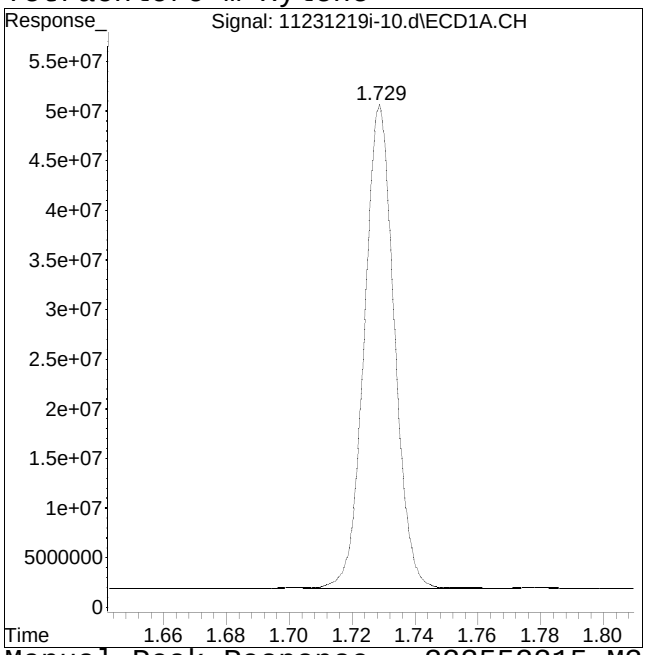
Original Peak Response = 85250326 Manual Peak Response = 85146249 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-10.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 3:11 pm Instrument : Pest 11
Sample : il9pest,42e,,pp 11399 L0.1Quant Date : 12/20/2023 5:23 pm

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



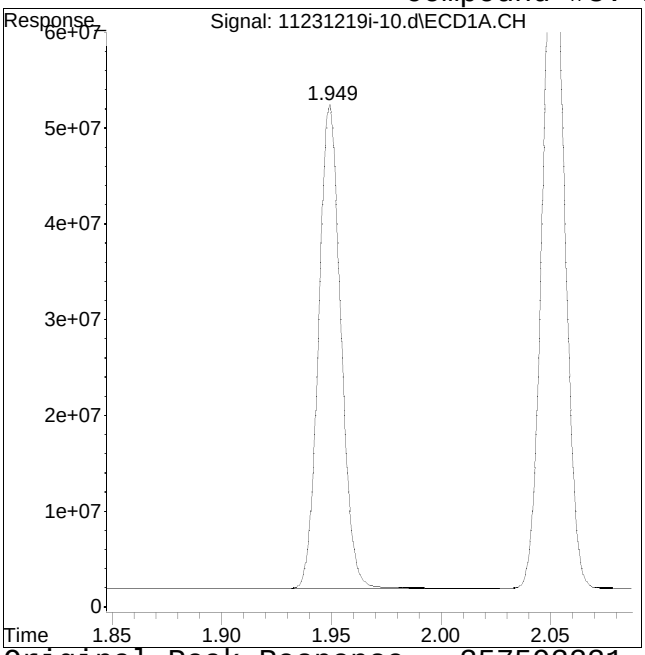


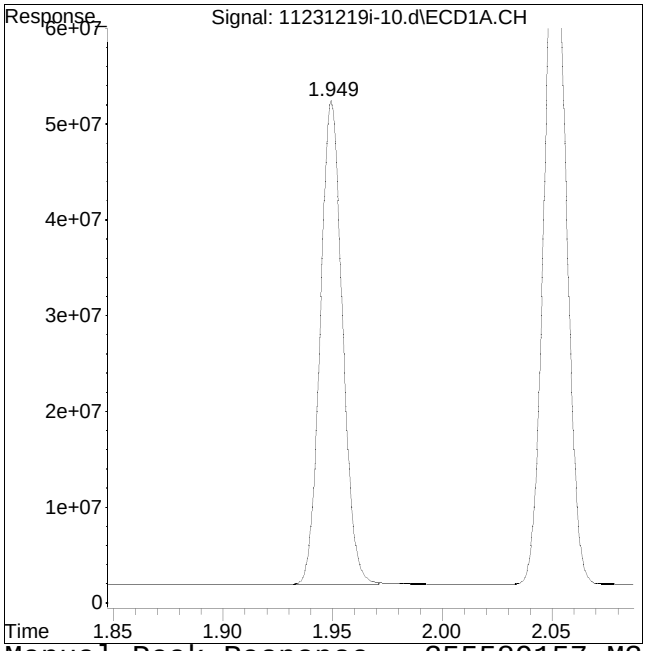
Original Peak Response = 324106326 Manual Peak Response = 323552315 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-10.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 3:11 pm Instrument : Pest 11
Sample : il9pest,42e,,pp 11399 L0.1Quant Date : 12/20/2023 5:23 pm

Compound #3: Hexachlorobenzene



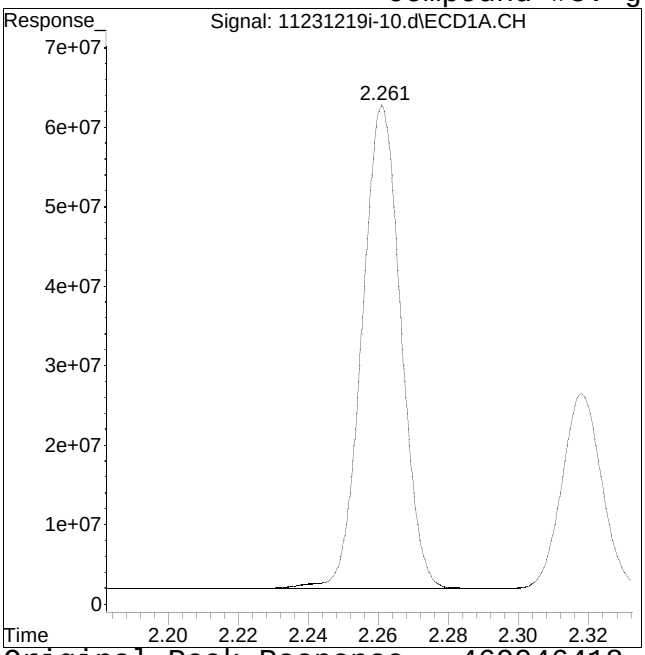


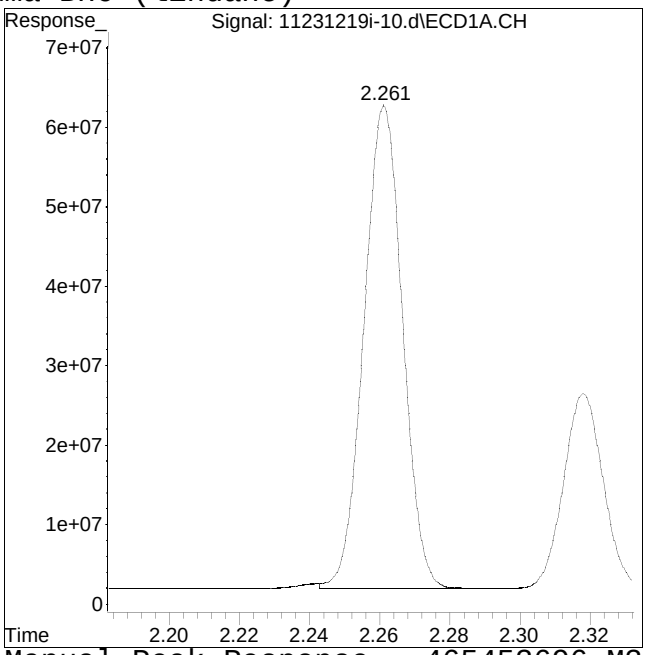
Original Peak Response = 357593331 Manual Peak Response = 355589157 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-10.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 3:11 pm Instrument : Pest 11
Sample : il9pest,42e,,pp 11399 L0.1Quant Date : 12/20/2023 5:23 pm

Compound #5: gamma-BHC (lindane)



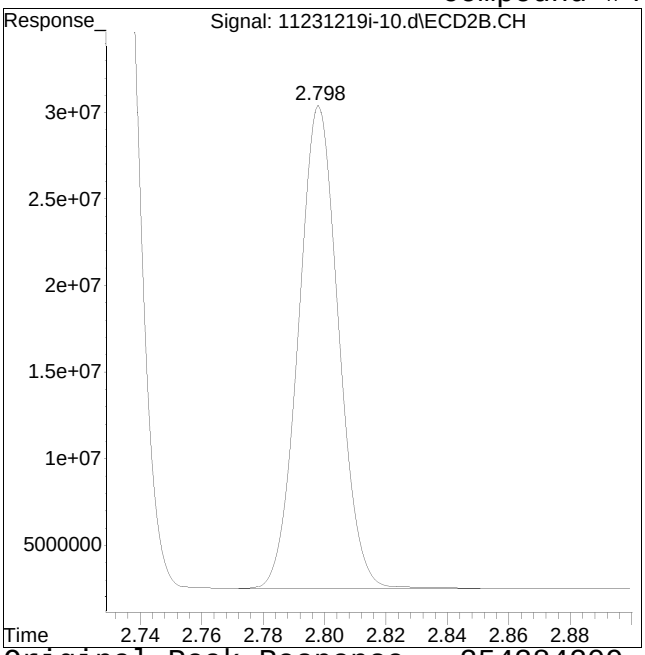


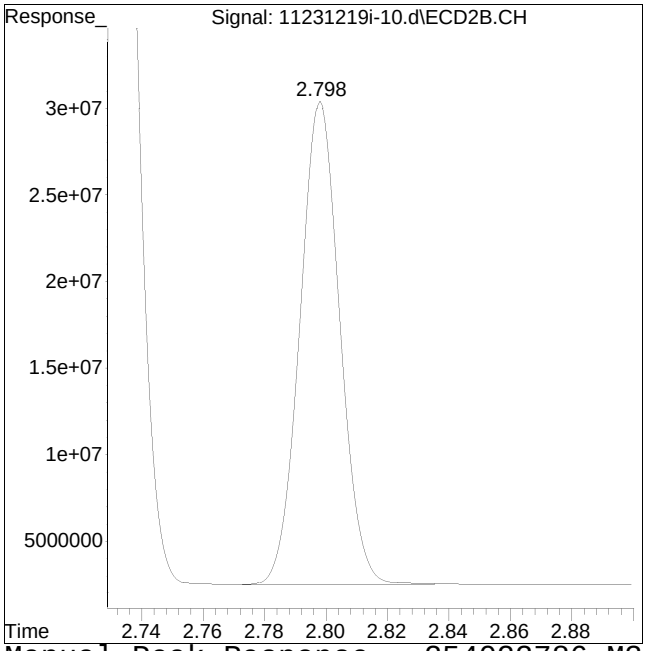
Original Peak Response = 469046418 Manual Peak Response = 465453696 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-10.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 3:11 pm Instrument : Pest 11
Sample : il9pest,42e,,pp 11399 L0.1Quant Date : 12/20/2023 5:23 pm

Compound #44: beta-BHC #2



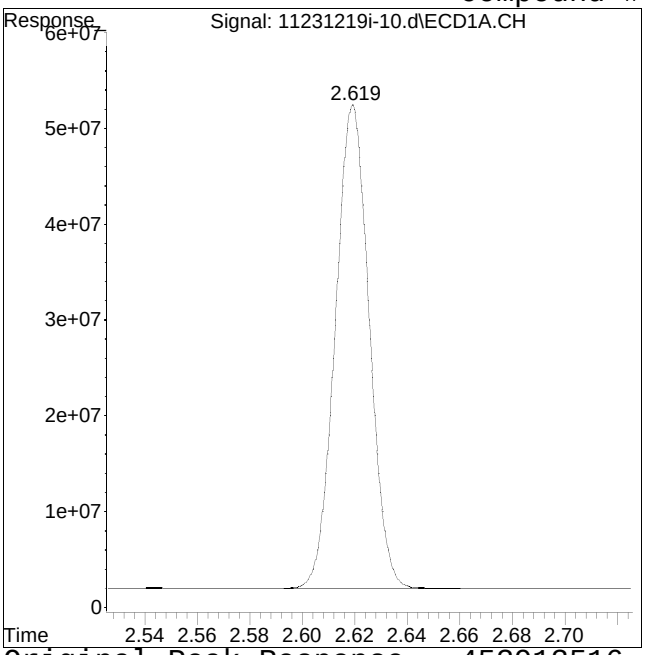


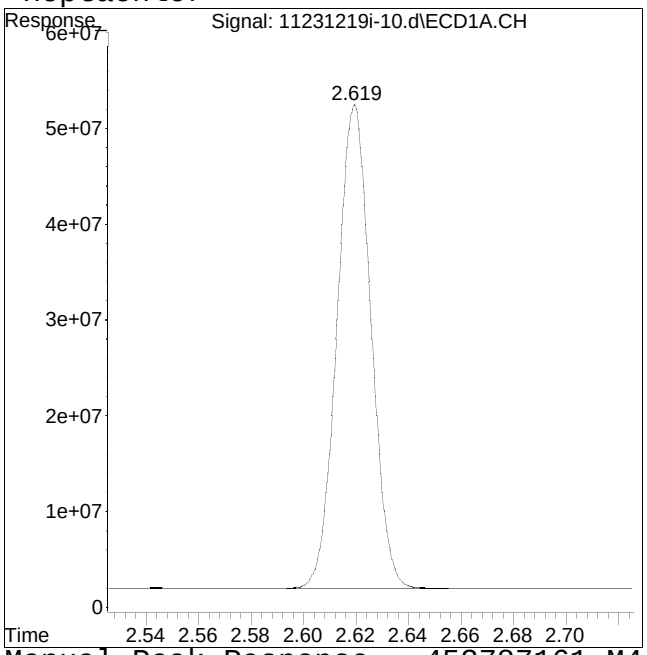
Original Peak Response = 254384209 Manual Peak Response = 254023786 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-10.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 3:11 pm Instrument : Pest 11
Sample : il9pest,42e,,pp 11399 L0.1Quant Date : 12/20/2023 5:23 pm

Compound #8: Heptachlor



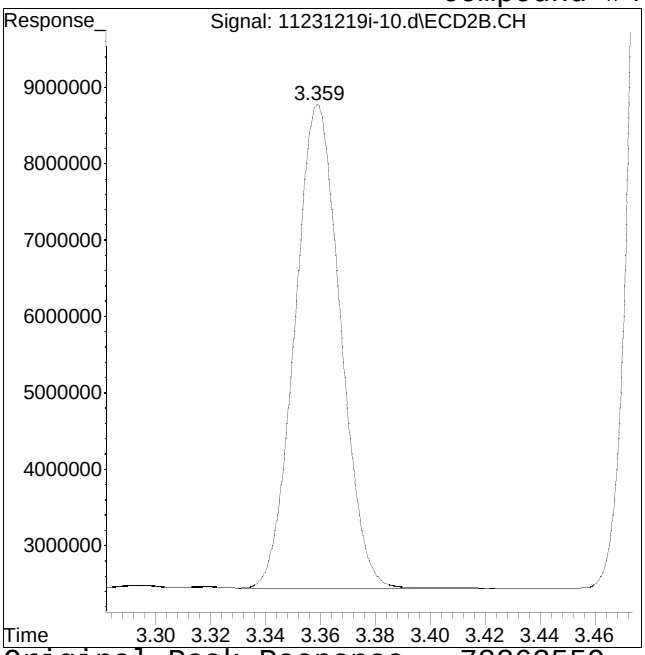


Original Peak Response = 453913516 Manual Peak Response = 453787161 M4
M4 = Poor automated baseline construction.

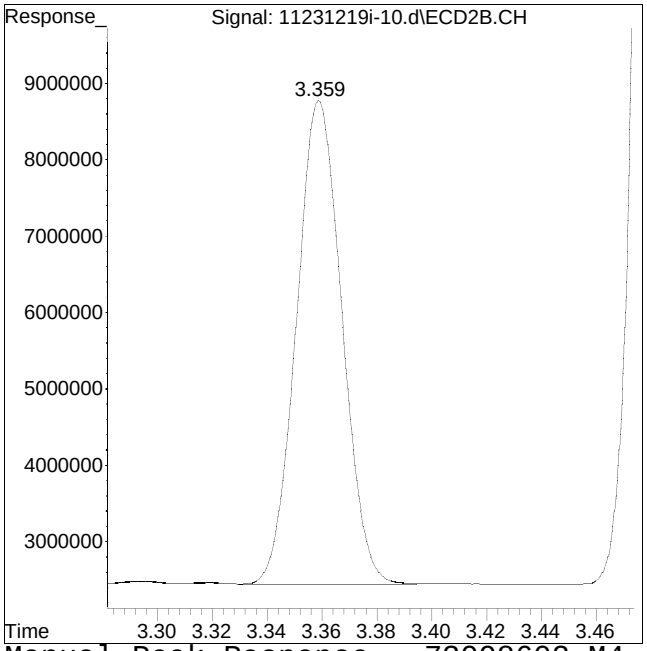
Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-10.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 3:11 pm Instrument : Pest 11
Sample : il9pest,42e,,pp 11399 L0.1Quant Date : 12/20/2023 5:23 pm

Compound #48: Alachlor #2



Original Peak Response = 73363559



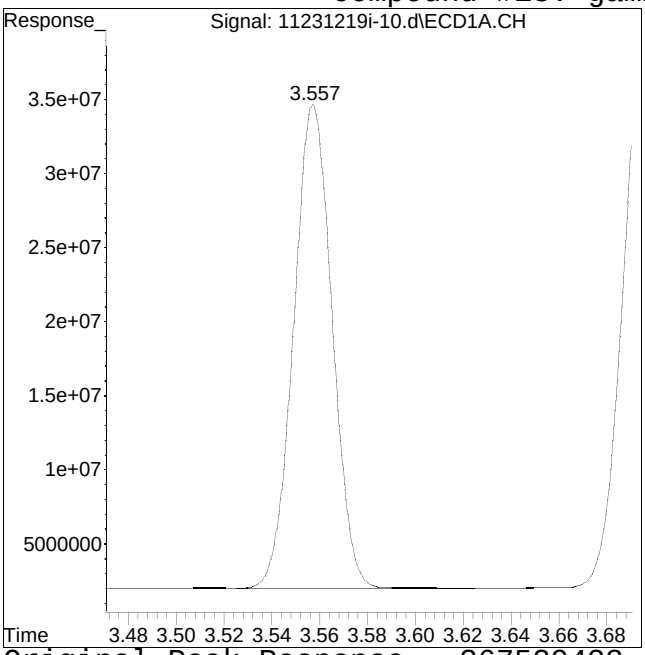
Manual Peak Response = 73098602 M4

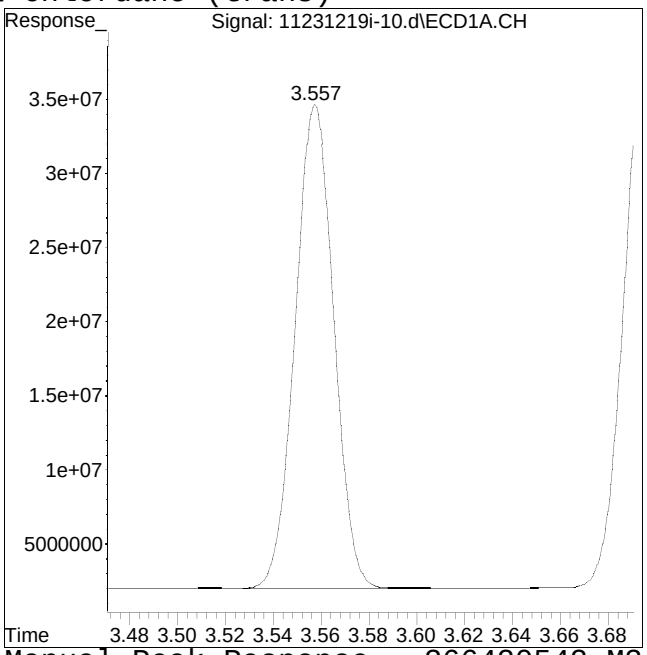
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-10.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 3:11 pm Instrument : Pest 11
Sample : il9pest,42e,,pp 11399 L0.1Quant Date : 12/20/2023 5:23 pm

Compound #13: gamma-Chlordane (trans)



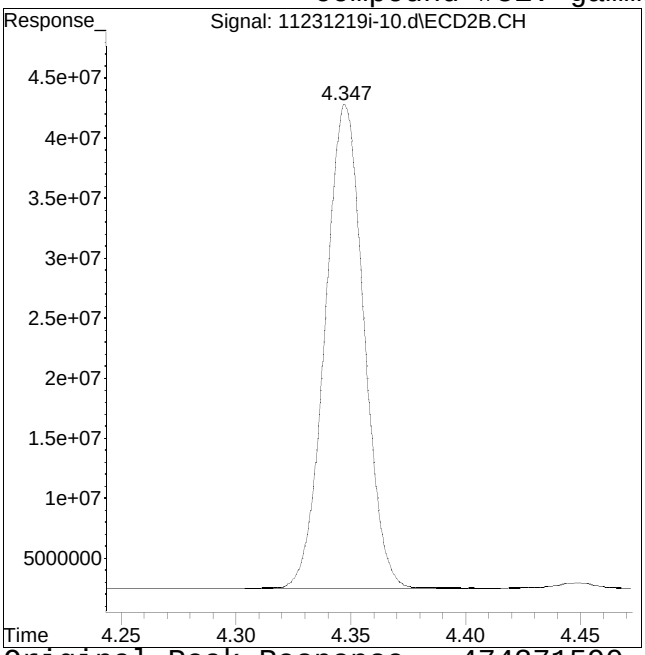


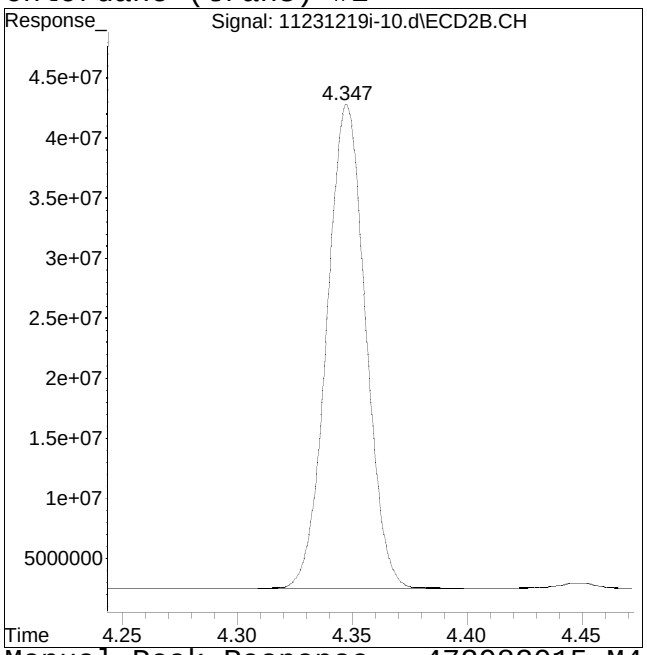
Original Peak Response = 367529423 Manual Peak Response = 366420542 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-10.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 3:11 pm Instrument : Pest 11
Sample : il9pest,42e,,pp 11399 L0.1Quant Date : 12/20/2023 5:23 pm

Compound #51: gamma-Chlordane (trans) #2



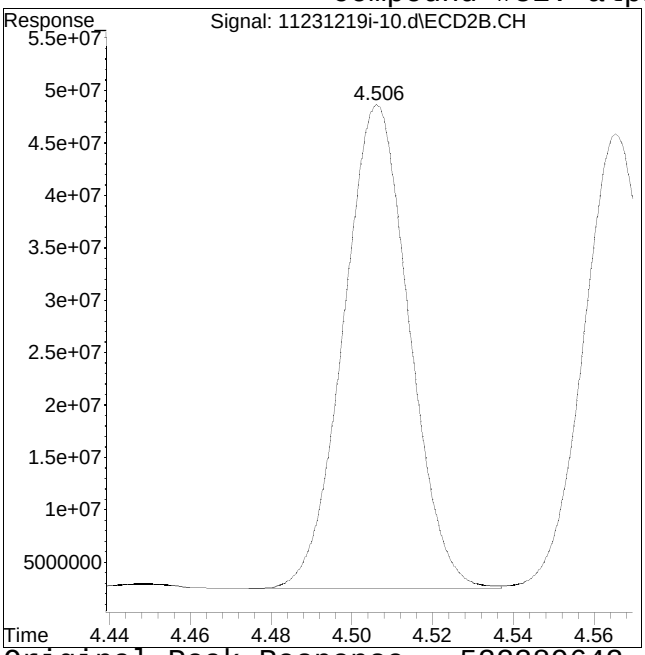


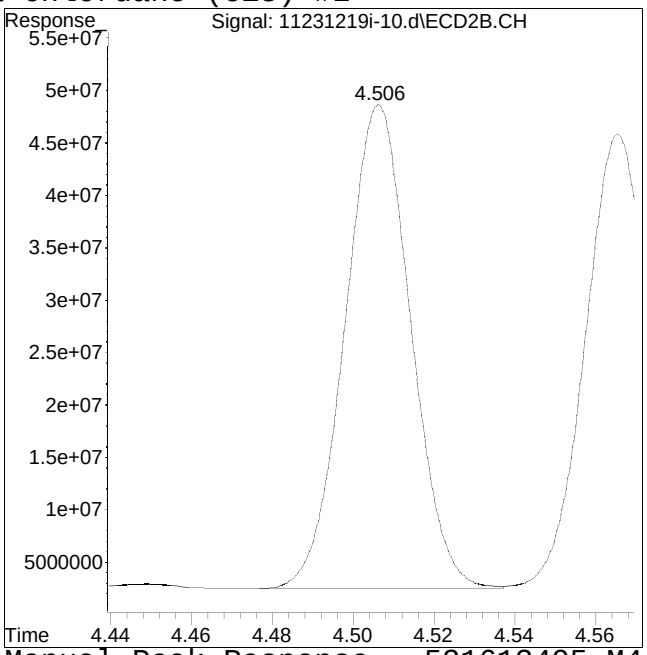
Original Peak Response = 474371590 Manual Peak Response = 472982015 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-10.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 3:11 pm Instrument : Pest 11
Sample : il9pest,42e,,pp 11399 L0.1Quant Date : 12/20/2023 5:23 pm

Compound #52: alpha-Chlordane (cis) #2



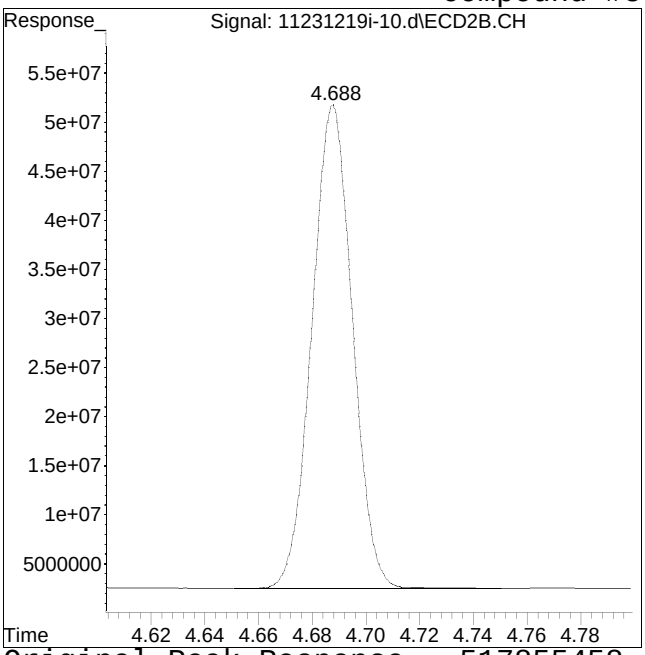


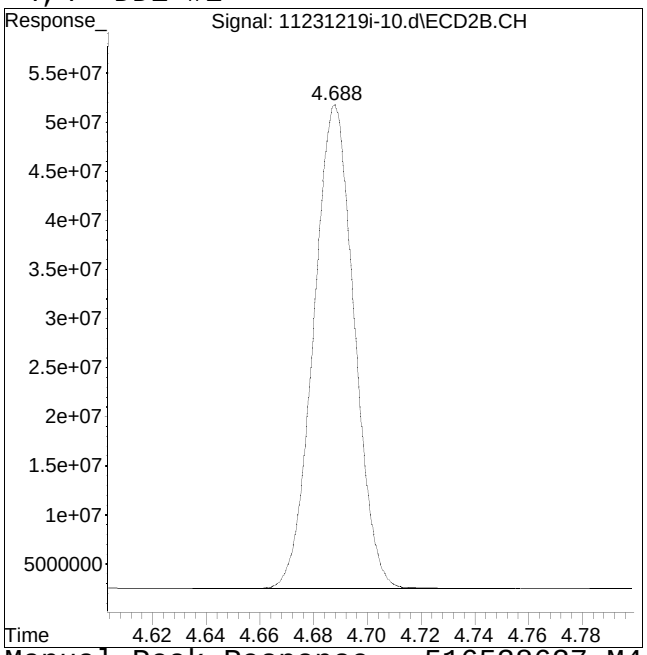
Original Peak Response = 522389642 Manual Peak Response = 521613495 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-10.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 3:11 pm Instrument : Pest 11
Sample : il9pest,42e,,pp 11399 L0.1Quant Date : 12/20/2023 5:23 pm

Compound #53: 4,4'-DDE #2



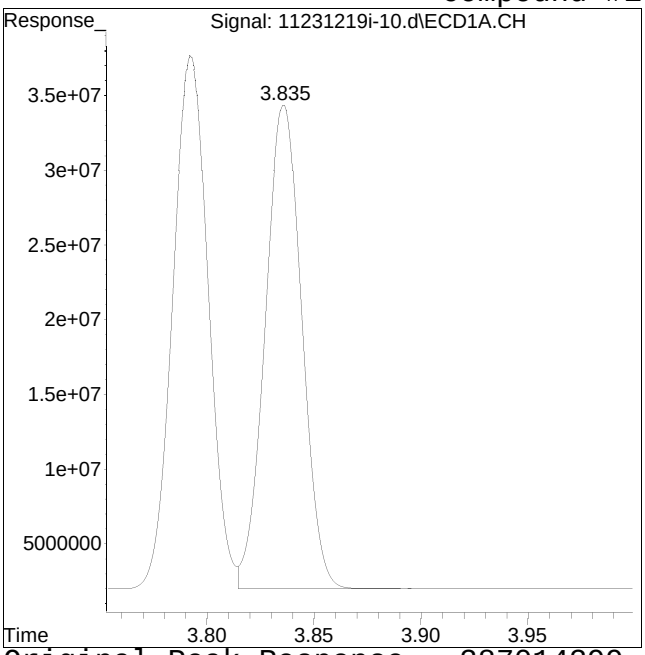


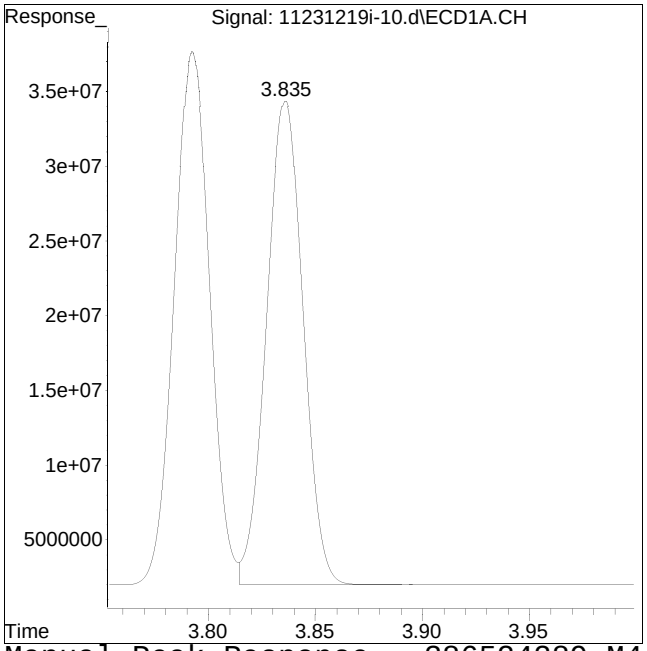
Original Peak Response = 517855458 Manual Peak Response = 516538627 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-10.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 3:11 pm Instrument : Pest 11
Sample : il9pest,42e,,pp 11399 L0.1Quant Date : 12/20/2023 5:23 pm

Compound #16: Endosulfan I



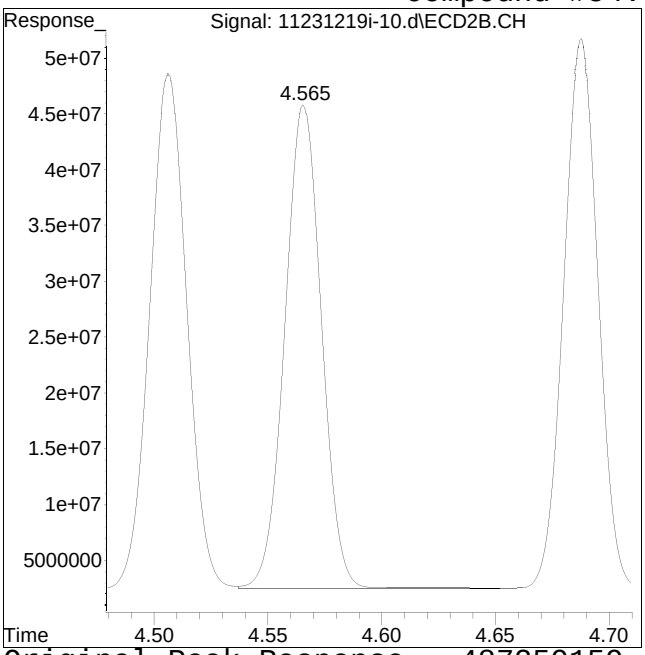


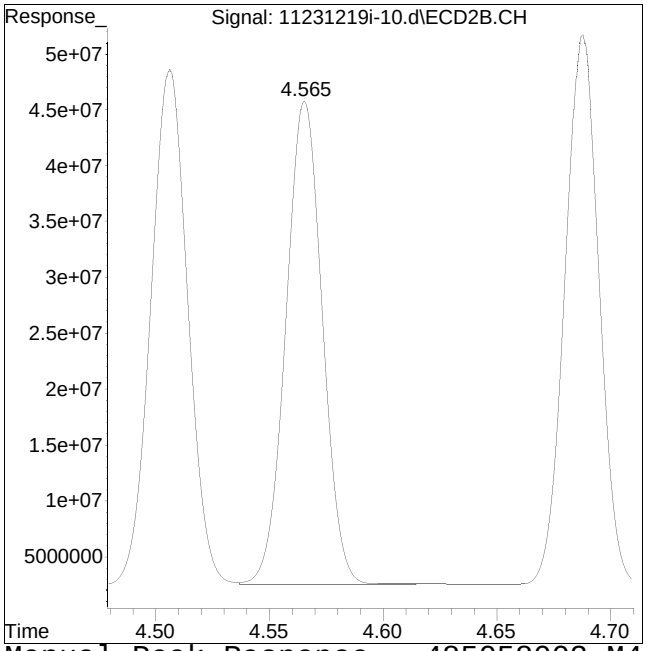
Original Peak Response = 387014399 Manual Peak Response = 386524289 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-10.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 3:11 pm Instrument : Pest 11
Sample : il9pest,42e,,pp 11399 L0.1Quant Date : 12/20/2023 5:23 pm

Compound #54: Endosulfan I #2



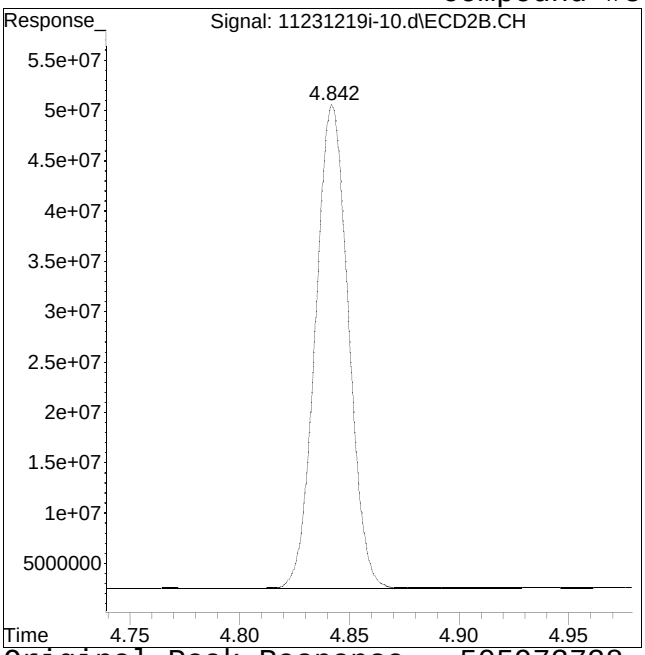


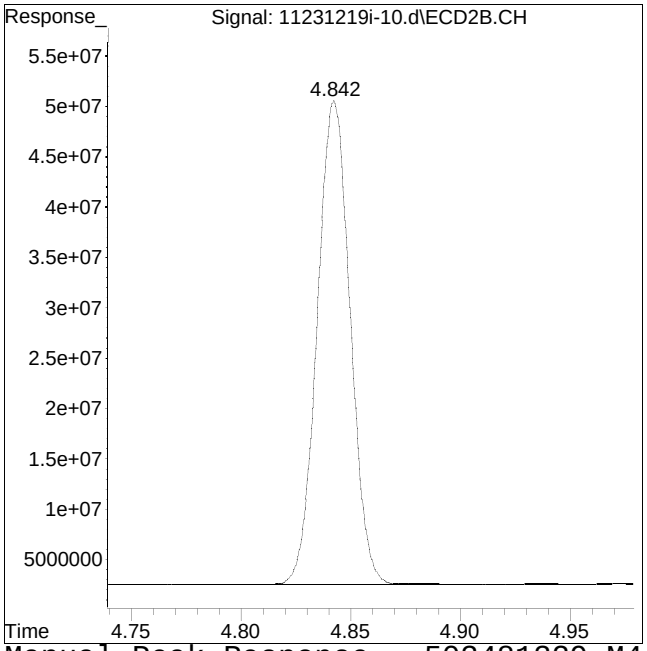
Original Peak Response = 487259159 Manual Peak Response = 485058003 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-10.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 3:11 pm Instrument : Pest 11
Sample : il9pest,42e,,pp 11399 L0.1Quant Date : 12/20/2023 5:23 pm

Compound #55: Dieldrin #2



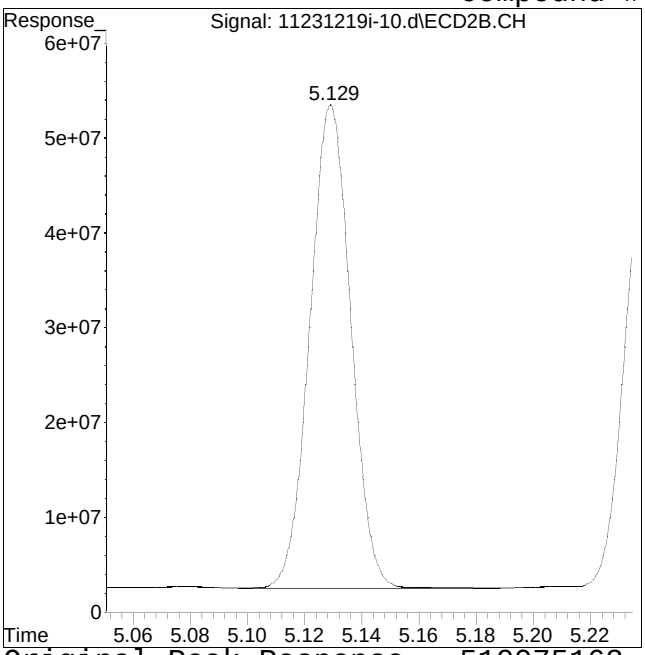


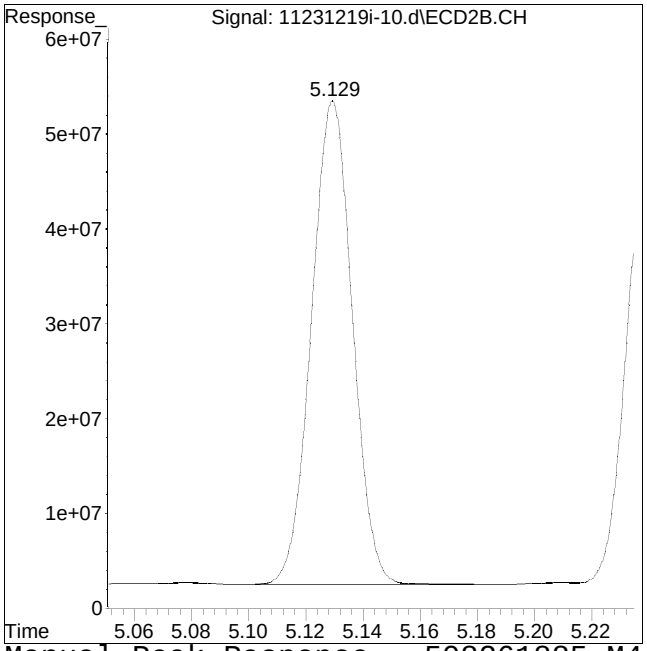
Original Peak Response = 505973738 Manual Peak Response = 503481329 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-10.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 3:11 pm Instrument : Pest 11
Sample : il9pest,42e,,pp 11399 L0.1Quant Date : 12/20/2023 5:23 pm

Compound #56: Endrin #2



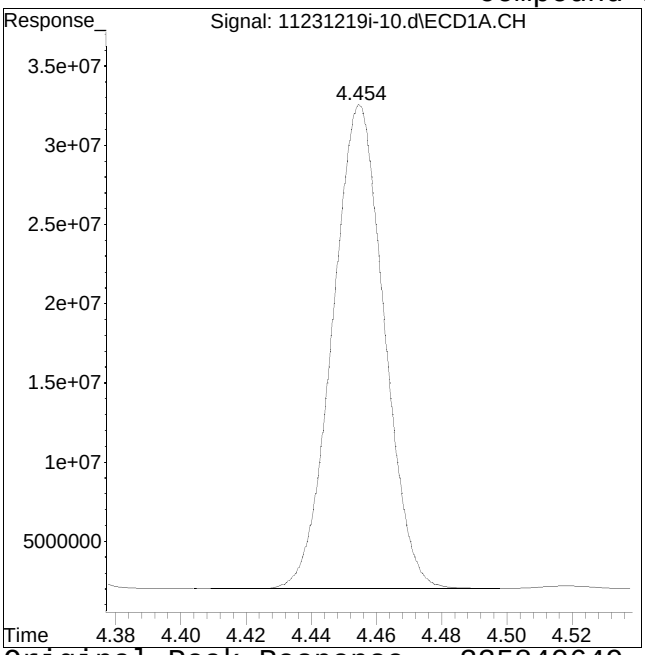


Original Peak Response = 510075162 Manual Peak Response = 508261885 M4
M4 = Poor automated baseline construction.

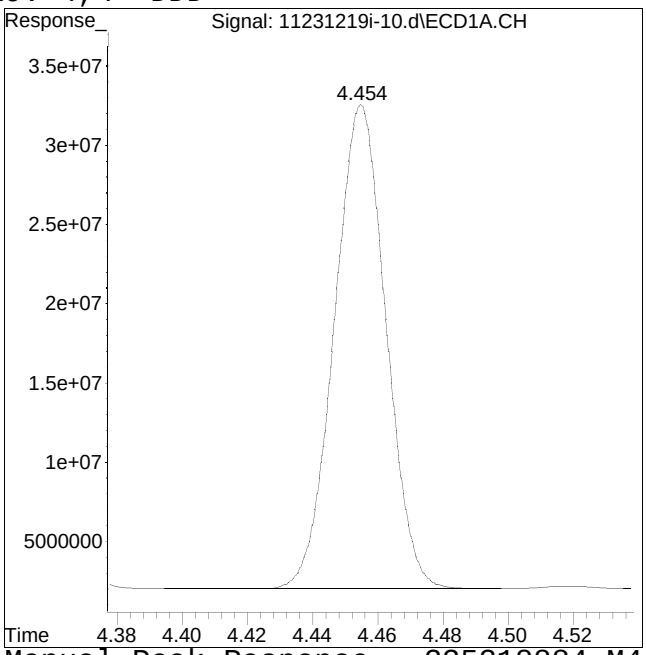
Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-10.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 3:11 pm Instrument : Pest 11
Sample : il9pest,42e,,pp 11399 L0.1Quant Date : 12/20/2023 5:23 pm

Compound #19: 4,4'-DDD



Original Peak Response = 335840649

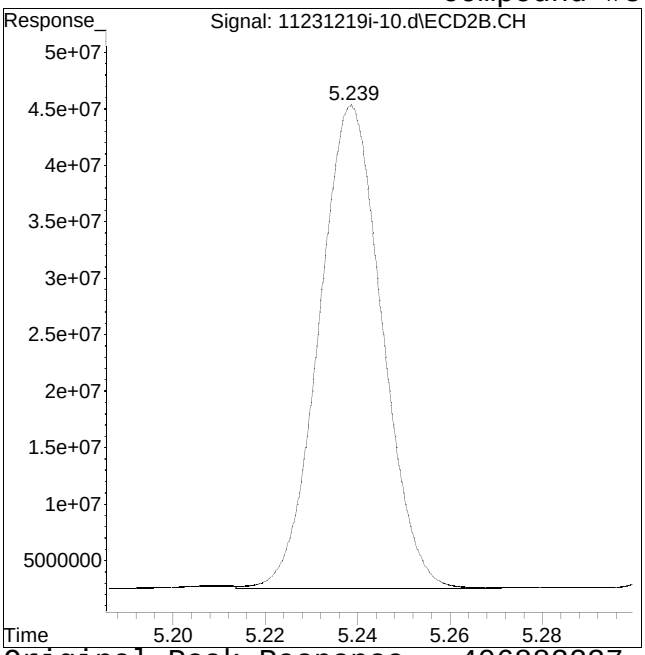


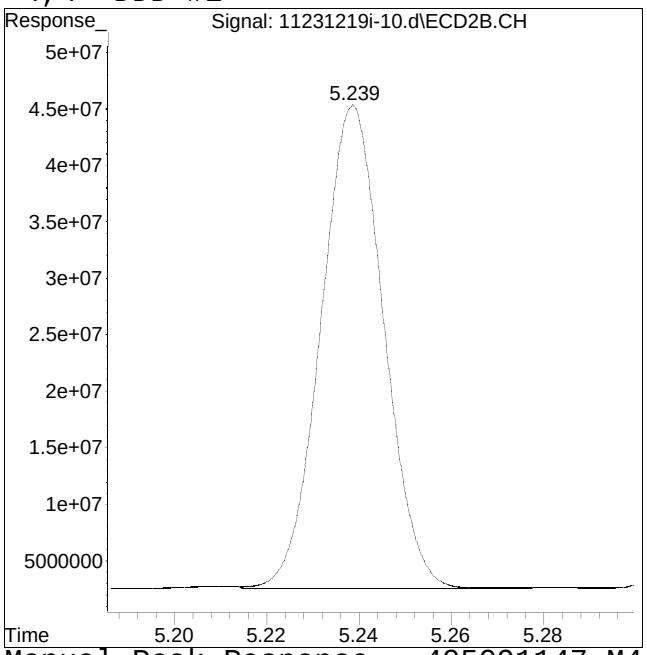
Manual Peak Response = 335318884 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-10.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 3:11 pm Instrument : Pest 11
Sample : il9pest,42e,,pp 11399 L0.1Quant Date : 12/20/2023 5:23 pm

Compound #57: 4,4'-DDD #2



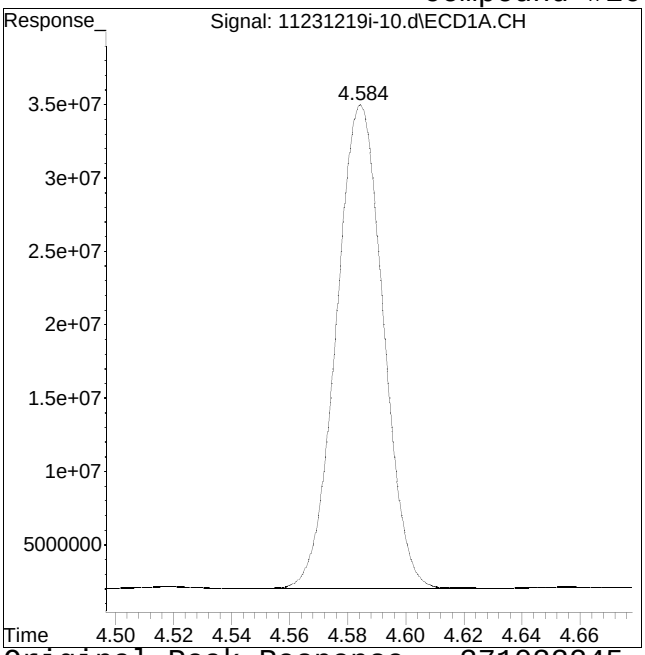


Original Peak Response = 406882237 Manual Peak Response = 405091147 M4
M4 = Poor automated baseline construction.

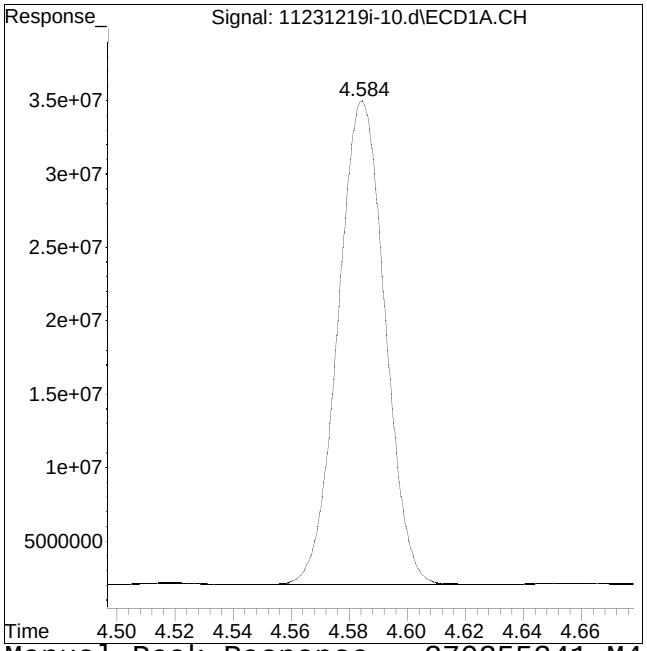
Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-10.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 3:11 pm Instrument : Pest 11
Sample : il9pest,42e,,pp 11399 L0.1Quant Date : 12/20/2023 5:23 pm

Compound #20: Endosulfan II



Original Peak Response = 371032245



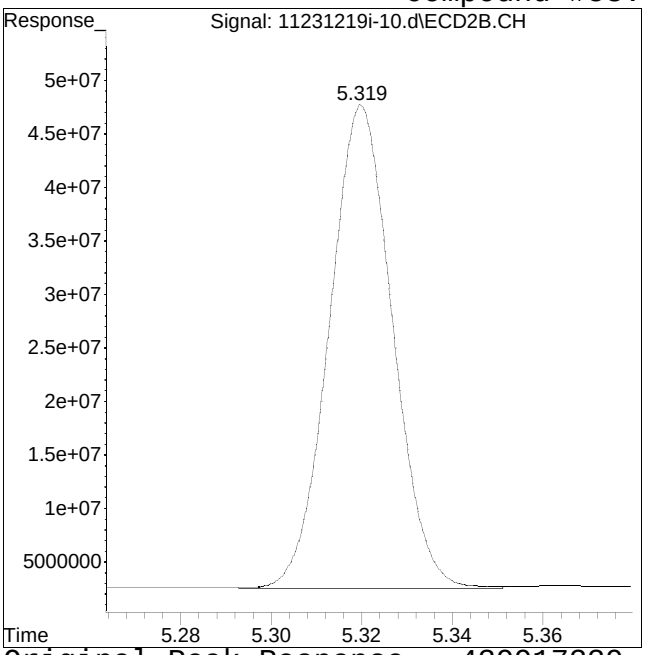
Manual Peak Response = 370355341 M4

M4 = Poor automated baseline construction.

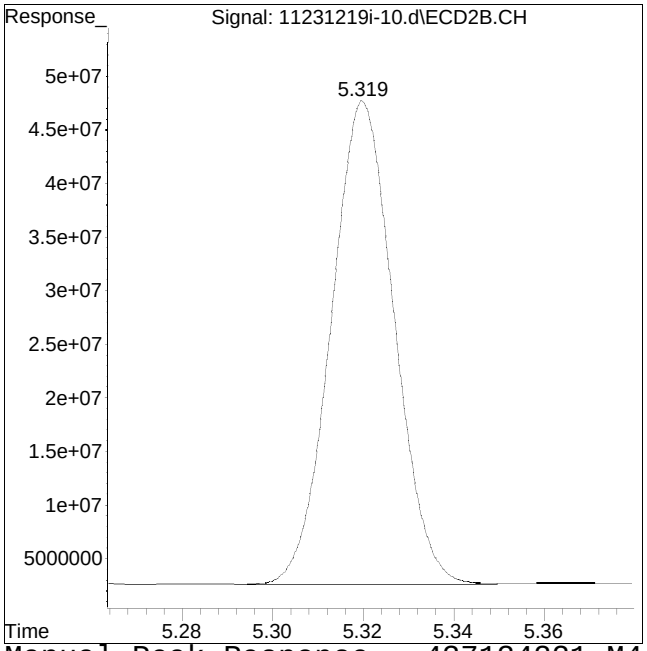
Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-10.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 3:11 pm Instrument : Pest 11
Sample : il9pest,42e,,pp 11399 L0.1Quant Date : 12/20/2023 5:23 pm

Compound #58: Endosulfan II #2



Original Peak Response = 439917339

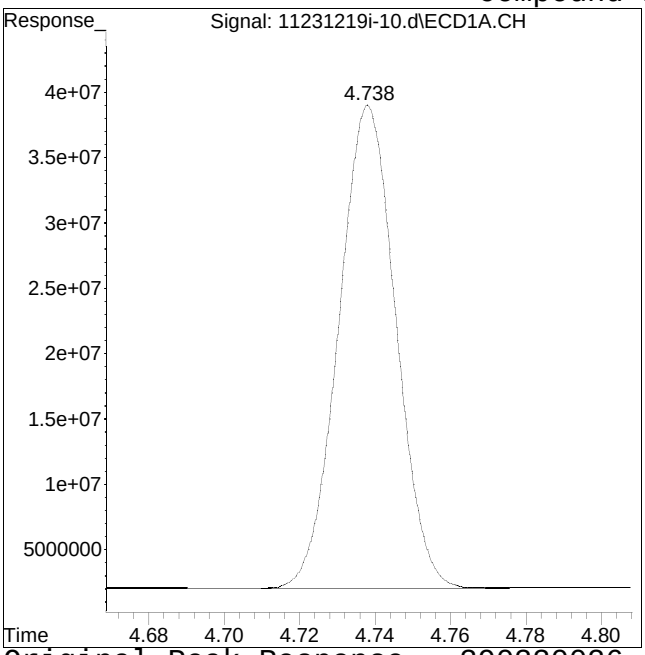


Manual Peak Response = 437134221 M4
M4 = Poor automated baseline construction.

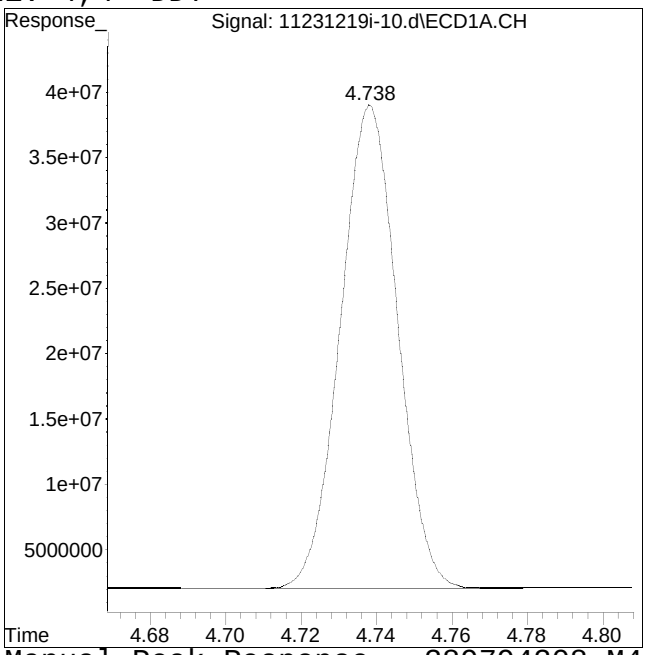
Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-10.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 3:11 pm Instrument : Pest 11
Sample : il9pest,42e,,pp 11399 L0.1Quant Date : 12/20/2023 5:23 pm

Compound #21: 4,4'-DDT



Original Peak Response = 390330026



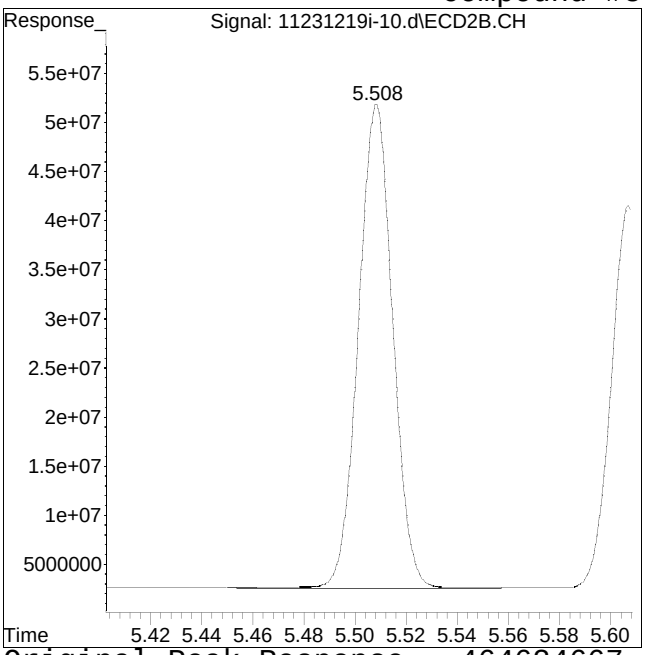
Manual Peak Response = 389794308 M4

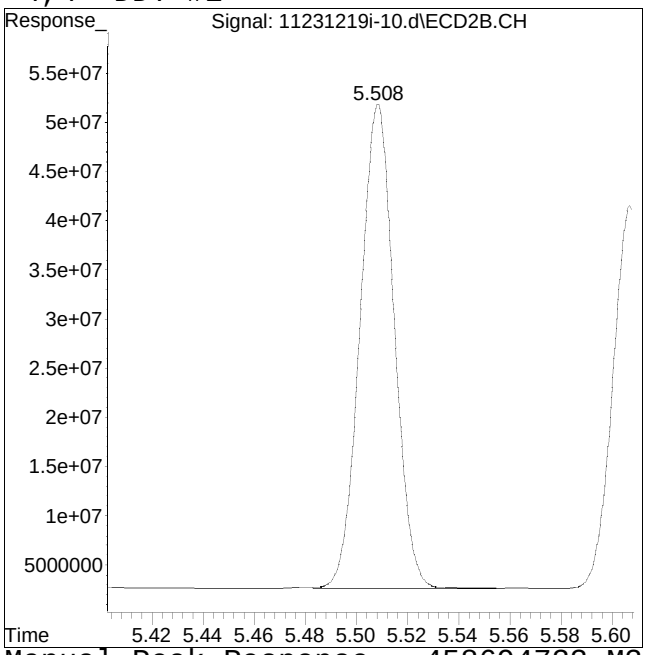
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-10.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 3:11 pm Instrument : Pest 11
Sample : il9pest,42e,,pp 11399 L0.1Quant Date : 12/20/2023 5:23 pm

Compound #59: 4,4'-DDT #2



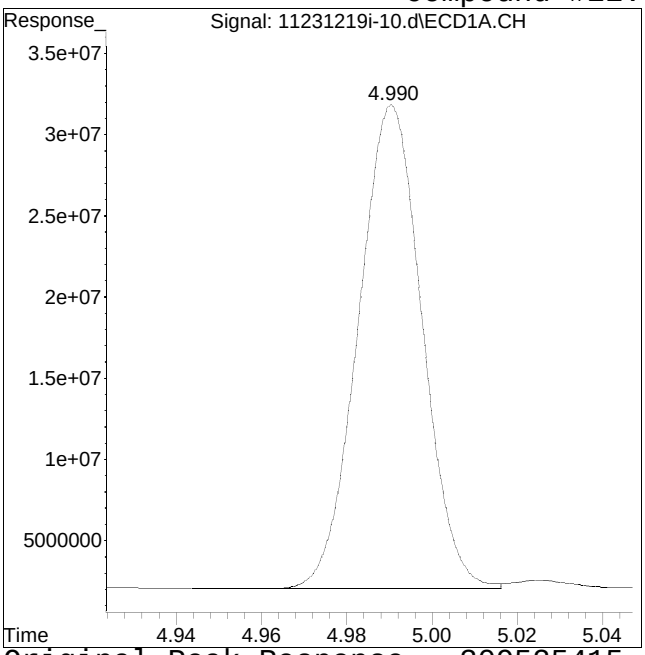


Original Peak Response = 464624667 Manual Peak Response = 458694733 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

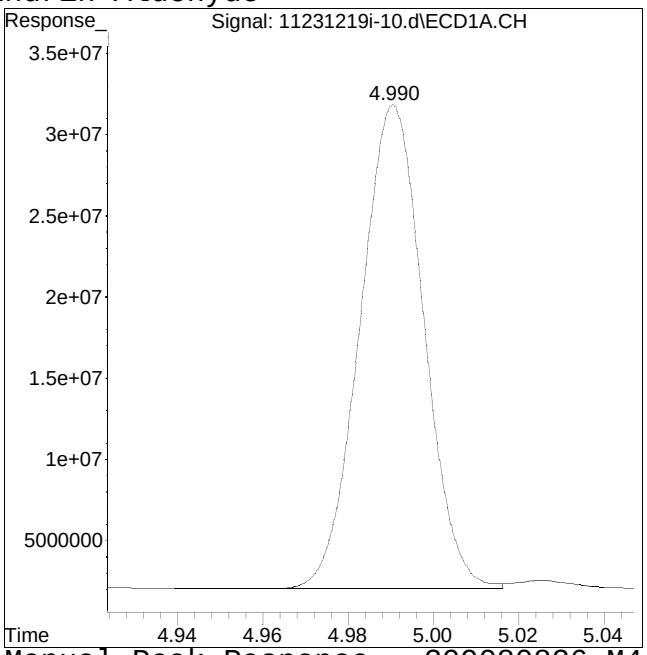
Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-10.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 3:11 pm Instrument : Pest 11
Sample : il9pest,42e,,pp 11399 L0.1Quant Date : 12/20/2023 5:23 pm

Compound #22: Endrin Aldehyde



Original Peak Response = 309525415

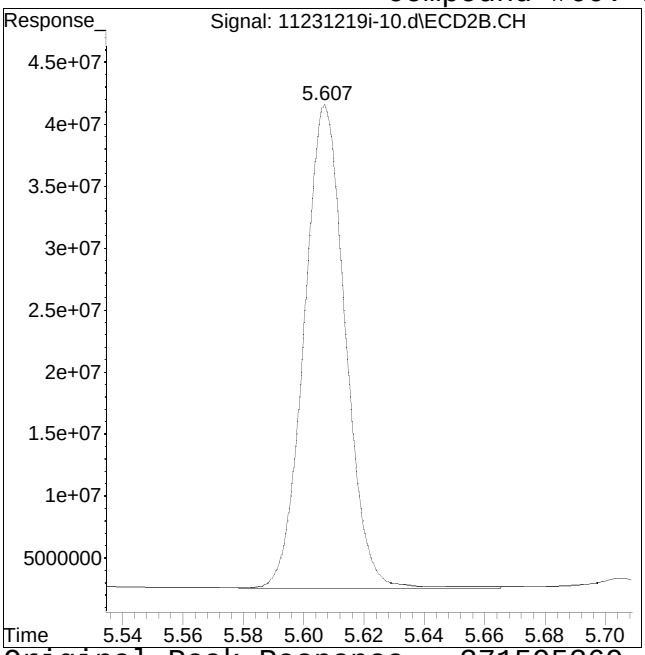


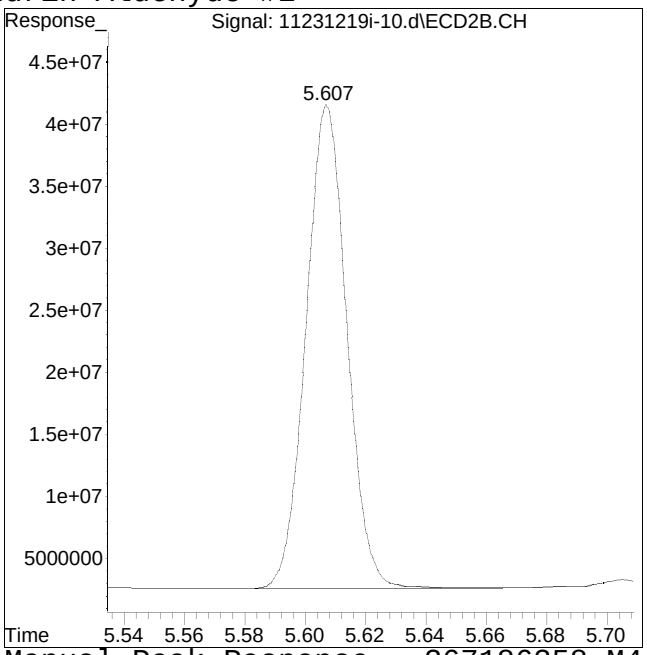
Manual Peak Response = 309080826 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-10.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 3:11 pm Instrument : Pest 11
Sample : il9pest,42e,,pp 11399 L0.1Quant Date : 12/20/2023 5:23 pm

Compound #60: Endrin Aldehyde #2



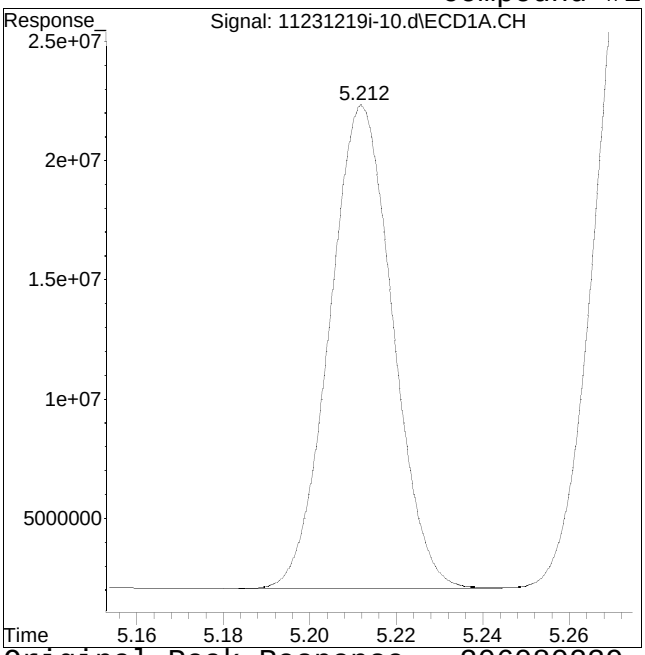


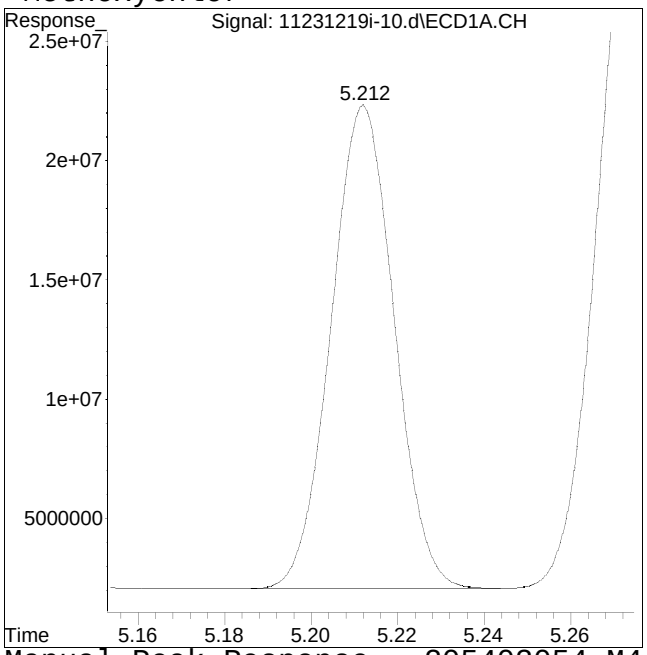
Original Peak Response = 371595369 Manual Peak Response = 367186358 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-10.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 3:11 pm Instrument : Pest 11
Sample : il9pest,42e,,pp 11399 L0.1Quant Date : 12/20/2023 5:23 pm

Compound #23: Methoxychlor



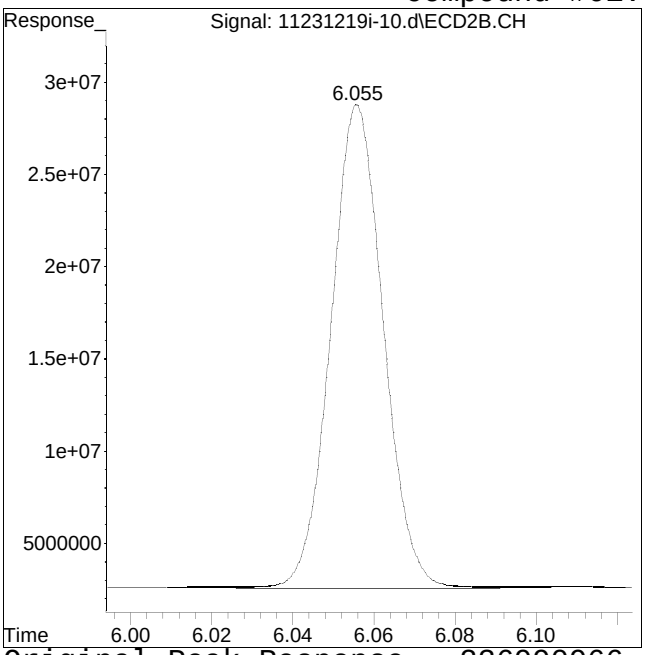


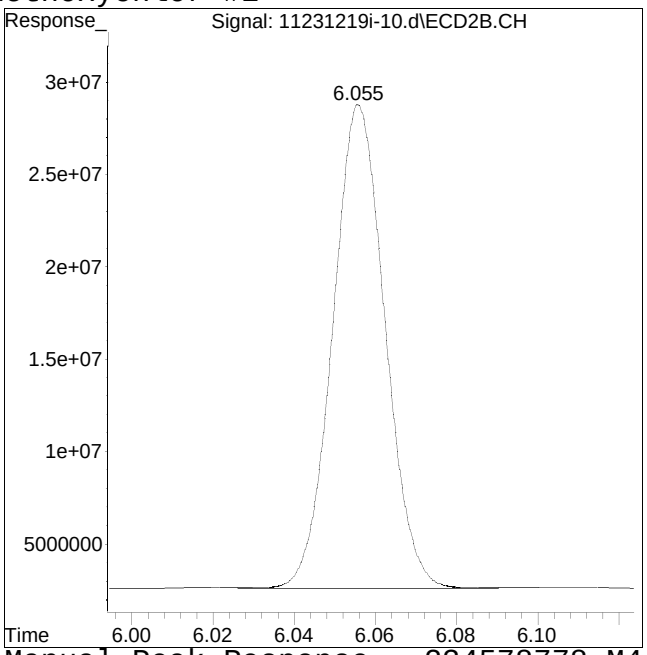
Original Peak Response = 206080239 Manual Peak Response = 205403054 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-10.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 3:11 pm Instrument : Pest 11
Sample : il9pest,42e,,pp 11399 L0.1Quant Date : 12/20/2023 5:23 pm

Compound #61: Methoxychlor #2



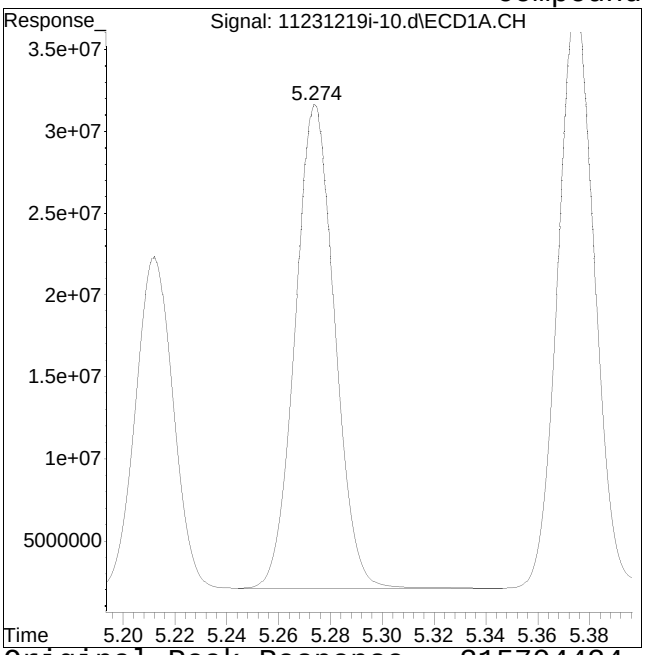


Original Peak Response = 236990966 Manual Peak Response = 234578778 M4
M4 = Poor automated baseline construction.

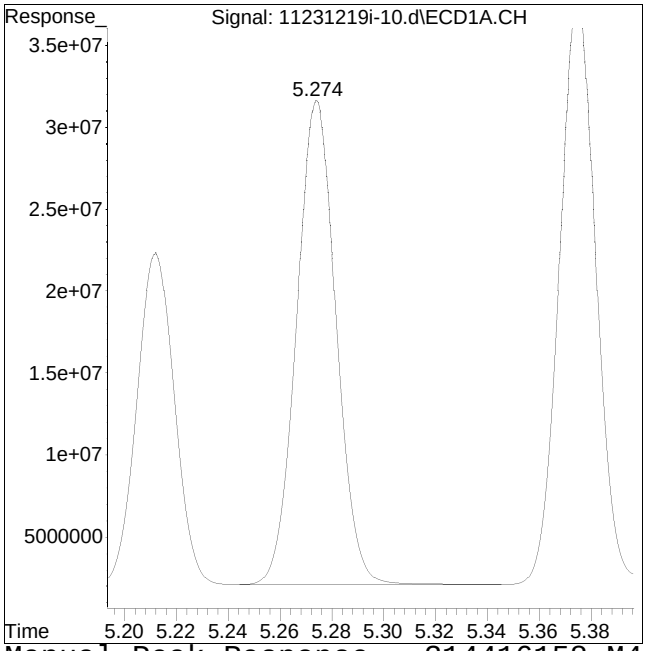
Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-10.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 3:11 pm Instrument : Pest 11
Sample : il9pest,42e,,pp 11399 L0.1Quant Date : 12/20/2023 5:23 pm

Compound #24: Mirex



Original Peak Response = 315704424



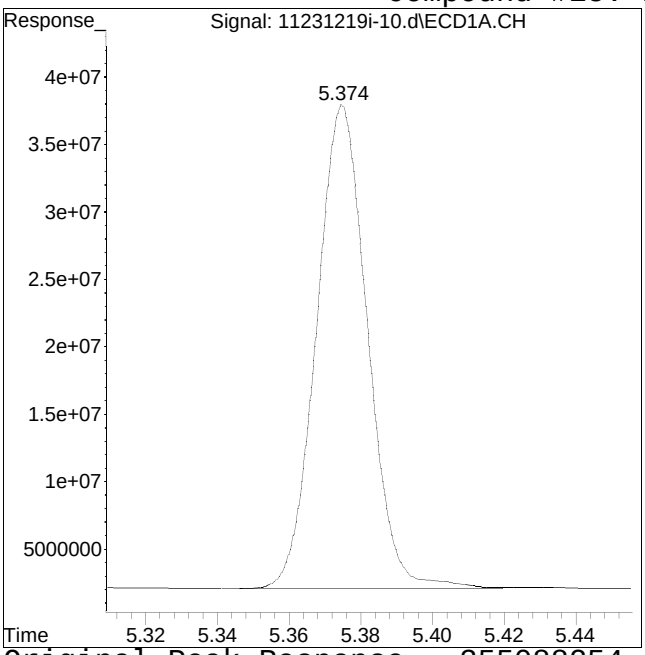
Manual Peak Response = 314416158 M4

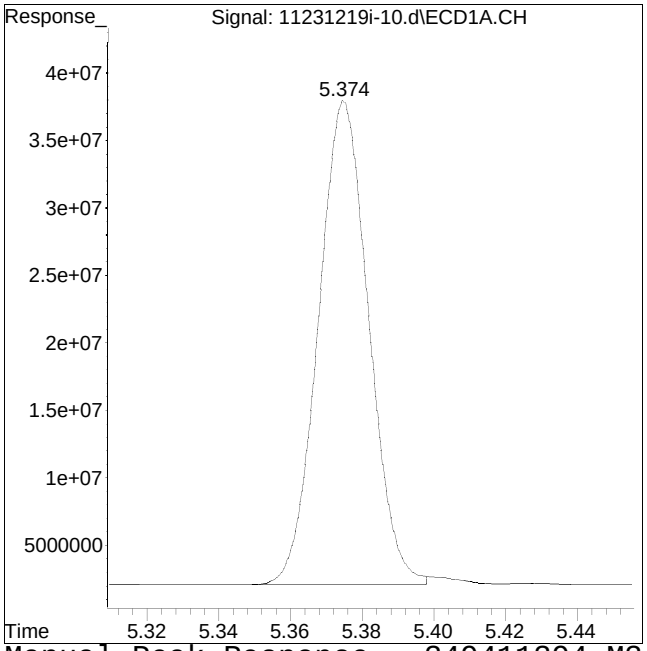
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-10.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 3:11 pm Instrument : Pest 11
Sample : il9pest,42e,,pp 11399 L0.1Quant Date : 12/20/2023 5:23 pm

Compound #25: Endosulfan Sulfate



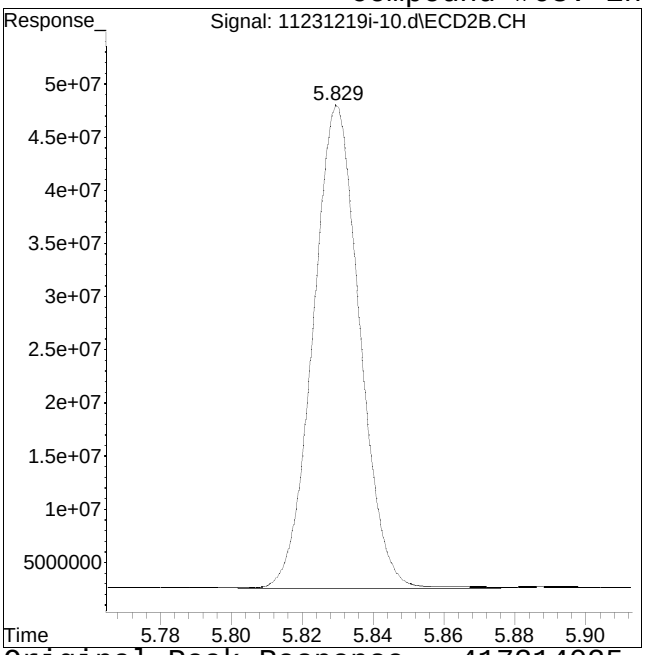


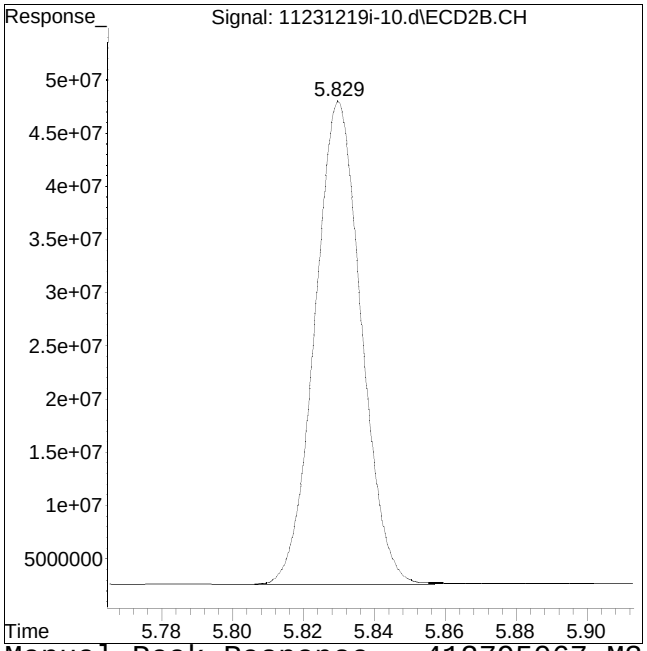
Original Peak Response = 355088254 Manual Peak Response = 349411394 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-10.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 3:11 pm Instrument : Pest 11
Sample : il9pest,42e,,pp 11399 L0.1Quant Date : 12/20/2023 5:23 pm

Compound #63: Endosulfan Sulfate #2



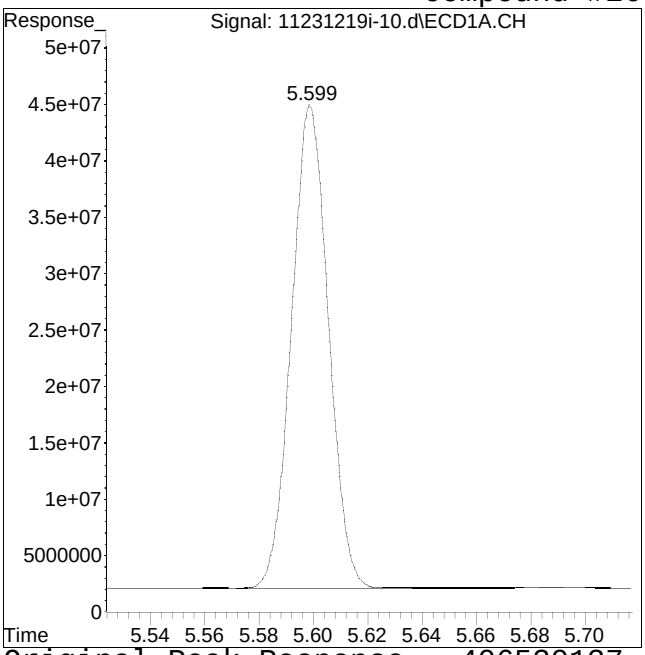


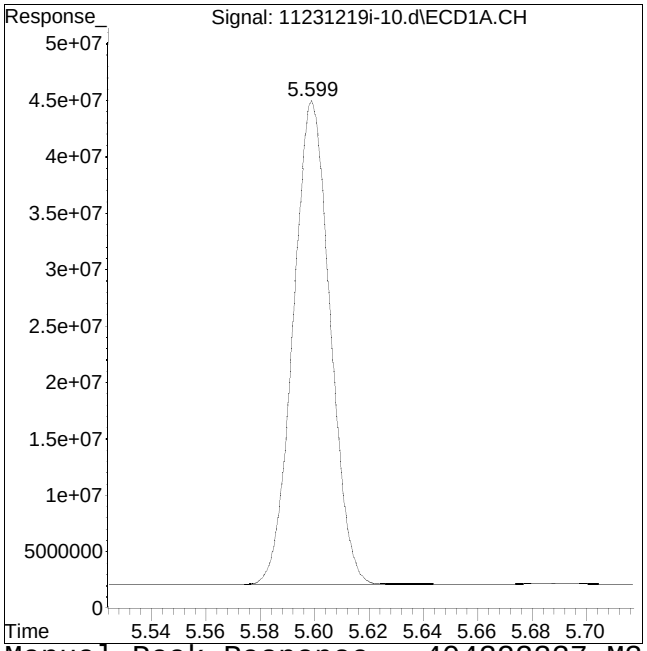
Original Peak Response = 417314025 Manual Peak Response = 412795067 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-10.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 3:11 pm Instrument : Pest 11
Sample : il9pest,42e,,pp 11399 L0.1Quant Date : 12/20/2023 5:23 pm

Compound #26: Endrin Ketone



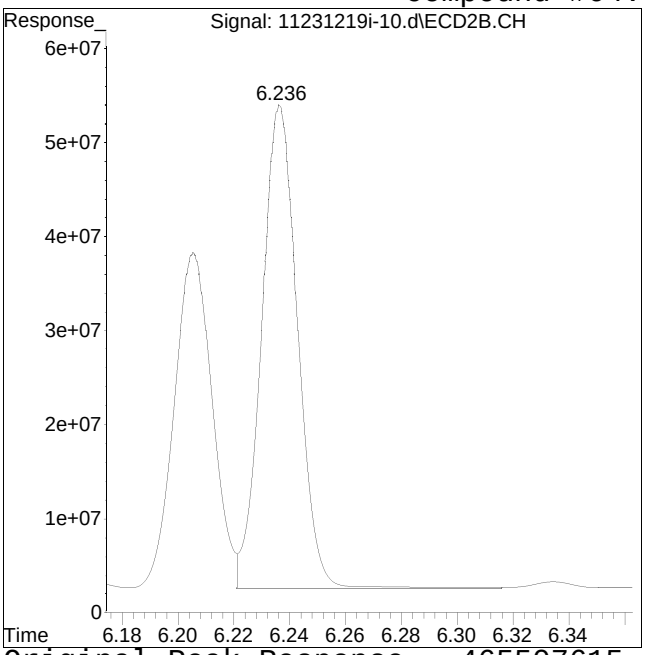


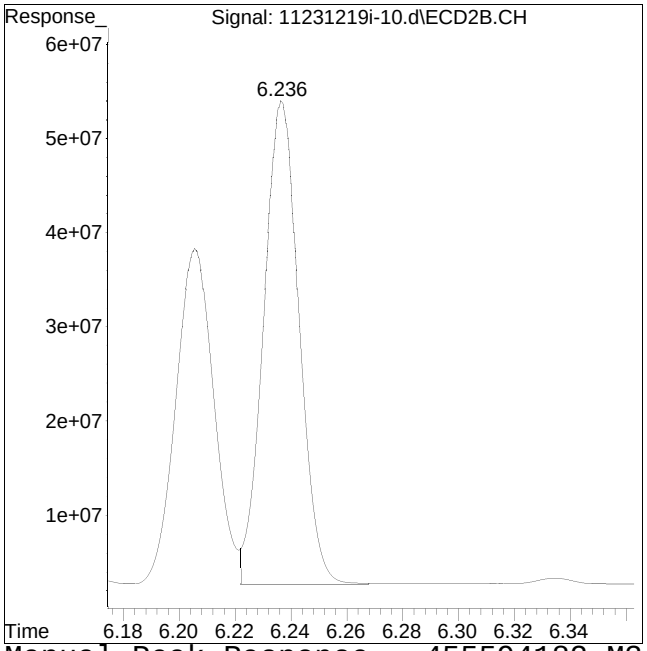
Original Peak Response = 406530137 Manual Peak Response = 404323337 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-10.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 3:11 pm Instrument : Pest 11
Sample : il9pest,42e,,pp 11399 L0.1Quant Date : 12/20/2023 5:23 pm

Compound #64: Endrin Ketone #2



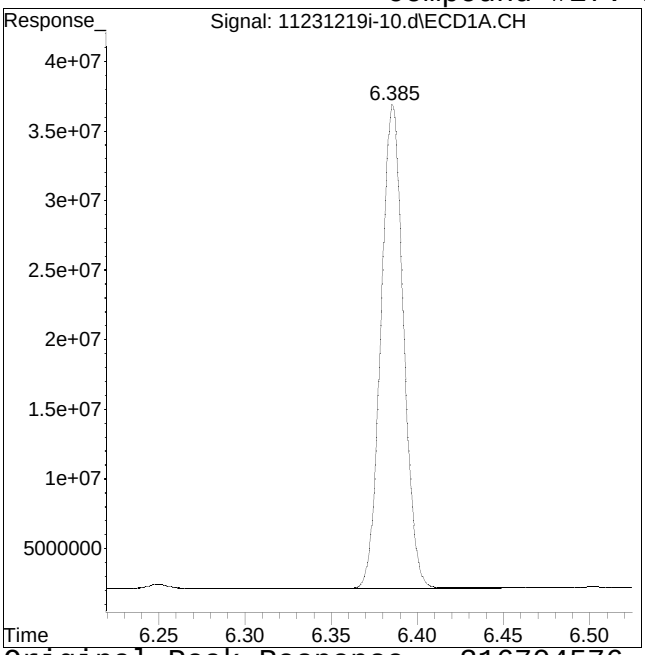


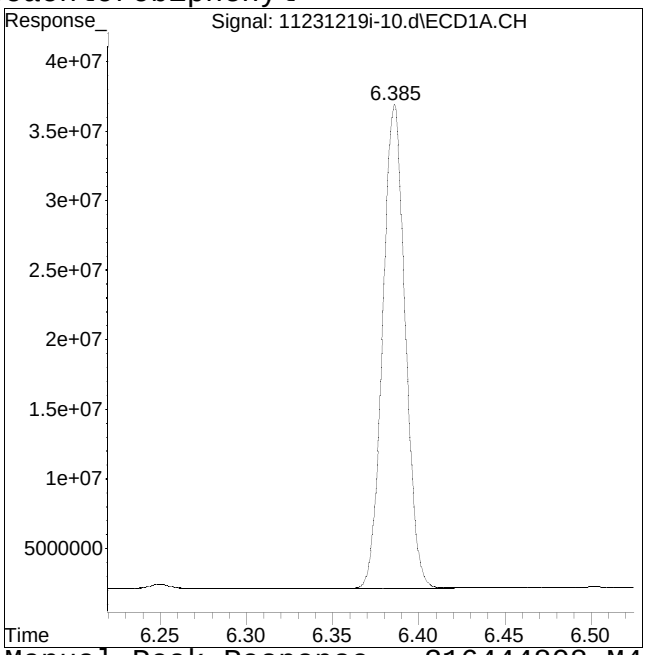
Original Peak Response = 465507615 Manual Peak Response = 455594182 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-10.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 3:11 pm Instrument : Pest 11
Sample : il9pest,42e,,pp 11399 L0.1Quant Date : 12/20/2023 5:23 pm

Compound #27: Decachlorobiphenyl



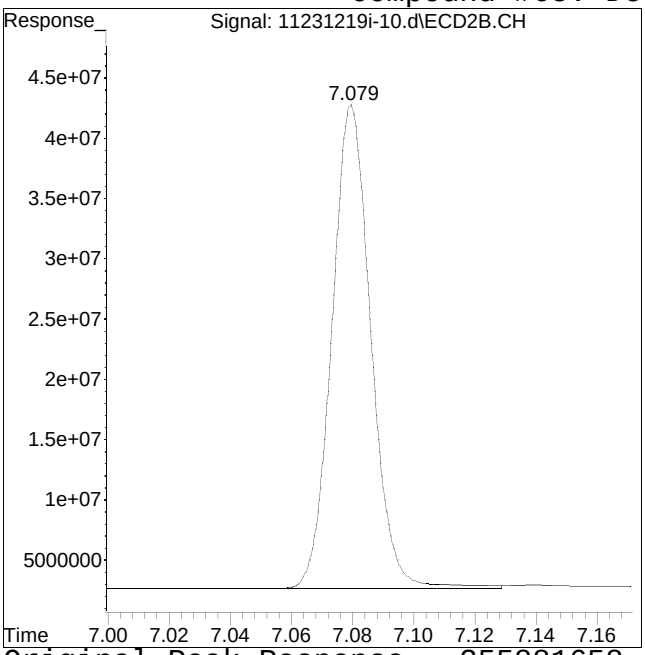


Original Peak Response = 316704576 Manual Peak Response = 316444808 M4
M4 = Poor automated baseline construction.

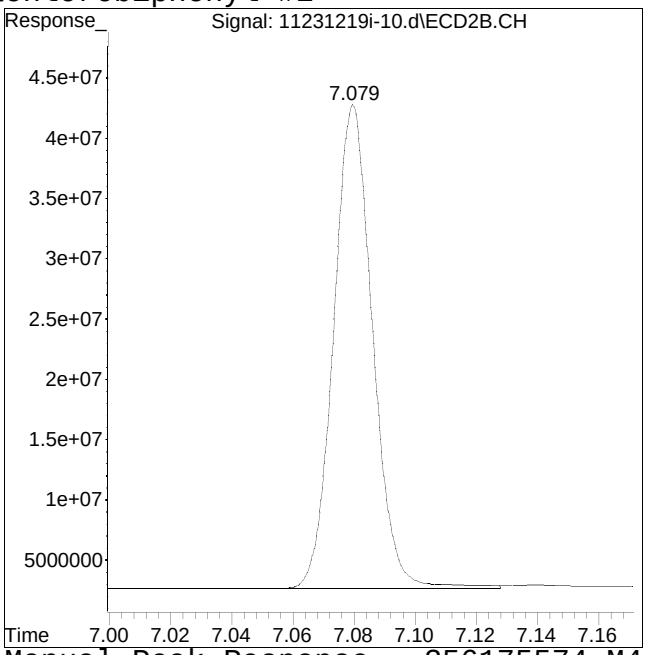
Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-10.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 3:11 pm Instrument : Pest 11
Sample : il9pest,42e,,pp 11399 L0.1Quant Date : 12/20/2023 5:23 pm

Compound #65: Decachlorobiphenyl #2



Original Peak Response = 355881658



Manual Peak Response = 356175574 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2023\231219ICAL\
Data File : 11231219i-11.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 19 Dec 2023 3:23 pm
Operator : PEST11:ejl
Sample : il10pest,42e,,pp 11398 L0.2
Misc : WG1866910,ical (Sig #1); ical (Sig #2)
ALS Vial : 11 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 20 17:34:21 2023
Quant Method : I:\PEST\Pest11\2023\231219ICAL\pest11_12_19_23_ugL_ICAL.M
Quant Title : pest
QLast Update : Wed Dec 20 17:28:56 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	1.374	1.480	89205256	119.3E6	25.000M4	25.000M4
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.728	1.986	668.8E6	902.3E6	198.919	200.438
	Spiked Amount 50.000	Range 30 - 150		Recovery =		397.84%#	400.88%#
27) s	Decachlorobi	6.385	7.080	641.3E6	726.7E6	193.582M4	196.189
	Spiked Amount 50.000	Range 30 - 150		Recovery =		387.16%#	392.38%#
	Target Compounds						
3) t	Hexachlorobe	1.949	2.327	734.3E6	969.4E6	197.316M3	199.595
4) t	alpha-BHC	2.051	2.428	1070.7E6	1424.1E6	206.857M3	209.230M3
5) t	gamma-BHC (l	2.260	2.731	984.4E6	1283.2E6	205.335M3	207.490
6) t	beta-BHC	2.317	2.798	405.2E6	525.9E6	199.520M4	198.675M3
7) t	delta-BHC	2.450	3.080	1018.3E6	1312.2E6	207.551M4	209.596
8) t	Heptachlor	2.619	3.151	935.2E6	1239.0E6	198.903M4	201.784M4
9) t	Aldrin	2.869	3.487	896.0E6	1177.9E6	204.339M4	206.023M3
10) t	Alachlor	2.992	3.359	110.9E6	140.6E6	179.819M4	178.298M4
11) t	Chlorpyrifos	3.086	3.729	380.0E6	533.5E6	184.473M4	184.694
12) t	Heptachlor E	3.430	4.129	835.3E6	1094.8E6	199.347	202.145
13) t	gamma-Chlord	3.556	4.347	777.5E6	998.4E6	206.159M3	205.658M4
14) t	alpha-Chlord	3.694	4.506	873.9E6	1093.5E6	203.349M3	203.745
15) t	4,4'-DDE	3.791	4.688	871.8E6	1089.1E6	208.464	206.713
16) t	Endosulfan I	3.834	4.565	801.1E6	1007.3E6	200.594M4	201.555M3

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2023\231219ICAL\
Data File : 11231219i-11.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 19 Dec 2023 3:23 pm
Operator : PEST11:ejl
Sample : il10pest,42e,,pp 11398 L0.2
Misc : WG1866910,ical (Sig #1); ical (Sig #2)
ALS Vial : 11 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 20 17:34:21 2023
Quant Method : I:\PEST\Pest11\2023\231219ICAL\pest11_12_19_23_ugL_ICAL.M
Quant Title : pest
QLast Update : Wed Dec 20 17:28:56 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
17) t	Dieldrin	4.100	4.843	854.7E6	1062.8E6	205.980M4	206.595
18) t	Endrin	4.352	5.129	872.7E6	1067.0E6	202.755M3	205.347M4
19) t	4,4'-DDD	4.453	5.239	712.7E6	862.0E6	208.795M4	208.664M3
20) t	Endosulfan I	4.584	5.320	758.9E6	906.2E6	197.918M4	201.140M4
21) t	4,4'-DDT	4.737	5.508	818.6E6	968.3E6	205.604M4	205.873M3
22) t	Endrin Aldeh	4.989	5.607	640.9E6	771.5E6	201.674M4	205.038M4
23) t	Methoxychlor	5.211	6.056	408.9E6	481.3E6	189.649M4	196.953M4
24) t	Mirex	5.273	6.205	637.5E6	690.8E6	193.471M3	195.019M4
25) t	Endosulfan S	5.374	5.830	718.8E6	864.8E6	198.321M3	202.863M3
26) t	Endrin Keton	5.598	6.236	823.7E6	956.9E6	195.807M4	203.096M3
29) l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000

Data Path : I:\PEST\Pest11\2023\231219ICAL\
Data File : 11231219i-11.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 19 Dec 2023 3:23 pm
Operator : PEST11:ejl
Sample : il10pest,42e,,pp 11398 L0.2
Misc : WG1866910,ical (Sig #1); ical (Sig #2)
ALS Vial : 11 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 20 17:34:21 2023
Quant Method : I:\PEST\Pest11\2023\231219ICAL\pest11_12_19_23_ugL_ICAL.M
Quant Title : pest
QLast Update : Wed Dec 20 17:28:56 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
SemiQuant Compounds - Not Calibrated on this Instrument						
Sum toxaphene-2			0	0	N.D.	N.D.
Average toxaphene-2					0.000	0.000

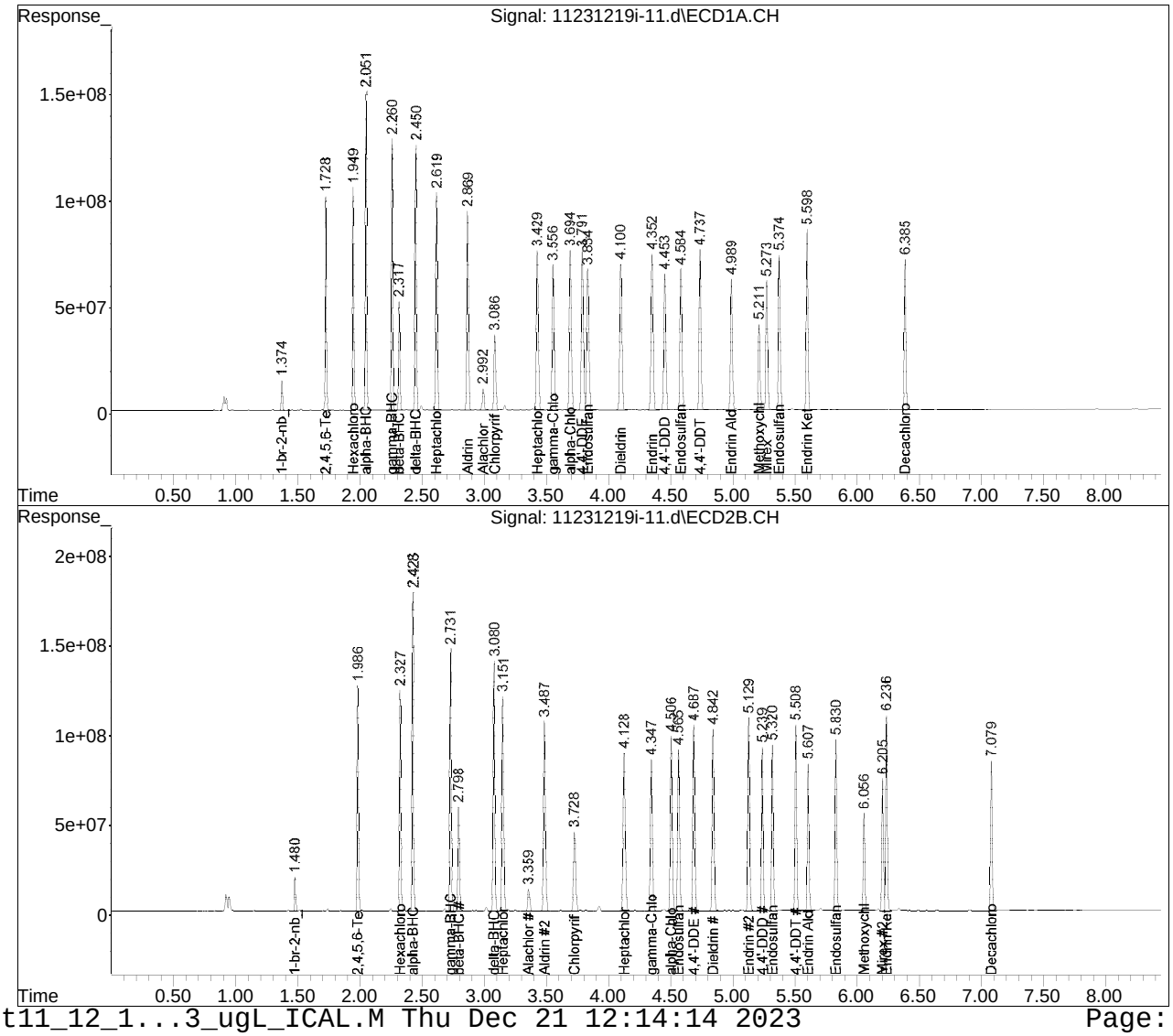
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest11\2023\231219ICAL\
Data File : 11231219i-11.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 19 Dec 2023 3:23 pm
Operator : PEST11:ejl
Sample : il10pest,42e,,pp 11398 L0.2
Misc : WG1866910,ical (Sig #1); ical (Sig #2)
ALS Vial : 11 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 20 17:34:21 2023
Quant Method : I:\PEST\Pest11\2023\231219ICAL\pest11_12_19_23_ugL_ICAL.M
Quant Title : pest
QLast Update : Wed Dec 20 17:28:56 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

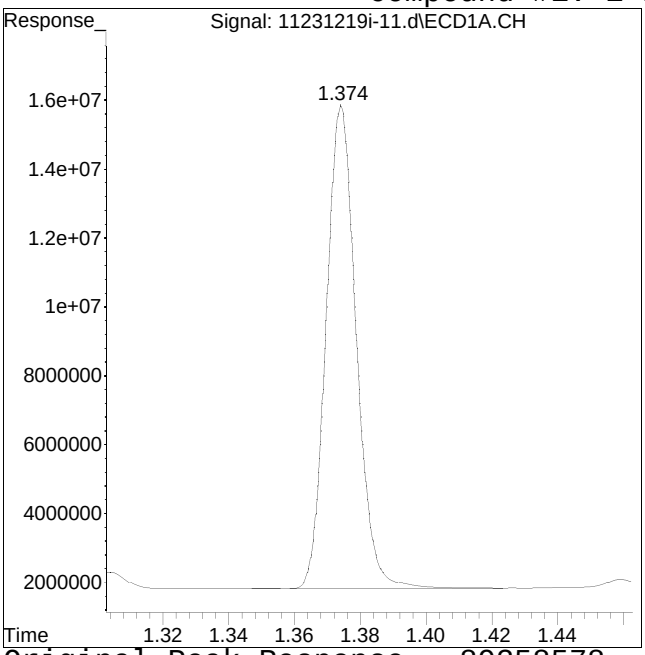
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



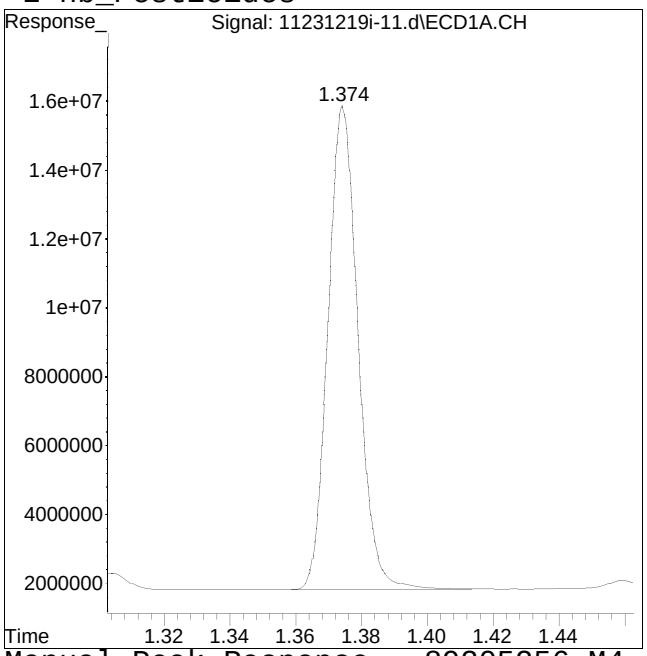
Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-11.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 3:23 pm Instrument : Pest 11
Sample : il10pest,42e,,pp 11398 L0.Quant Date : 12/20/2023 5:29 pm

Compound #1: 1-br-2-nb_Pesticides



Original Peak Response = 89358578



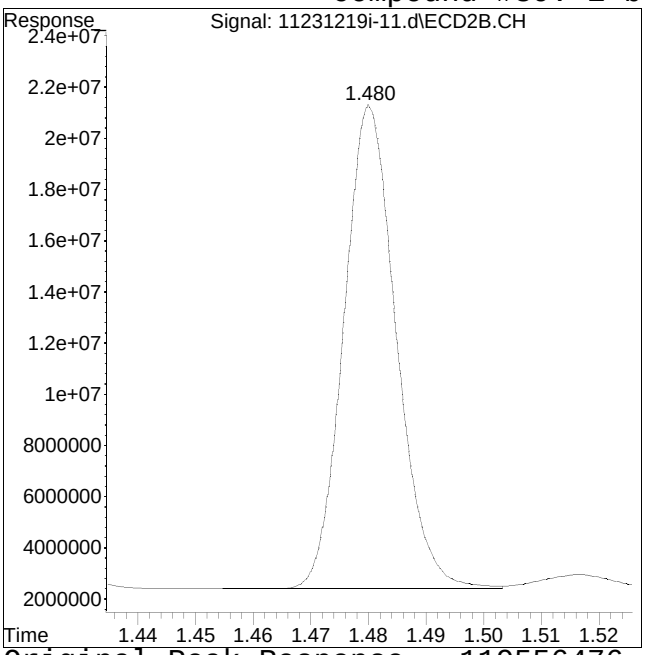
Manual Peak Response = 89205256 M4

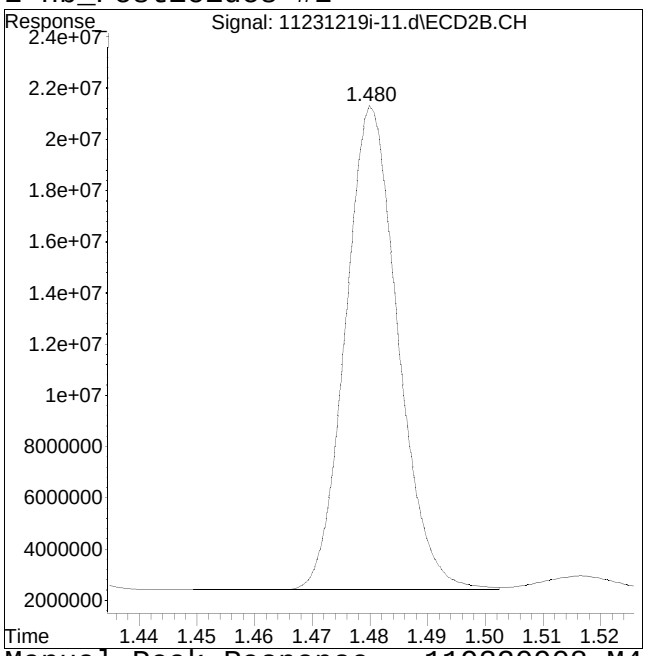
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-11.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 3:23 pm Instrument : Pest 11
Sample : il10pest,42e,,pp 11398 L0.Quant Date : 12/20/2023 5:29 pm

Compound #39: 1-br-2-nb_Pesticides #2



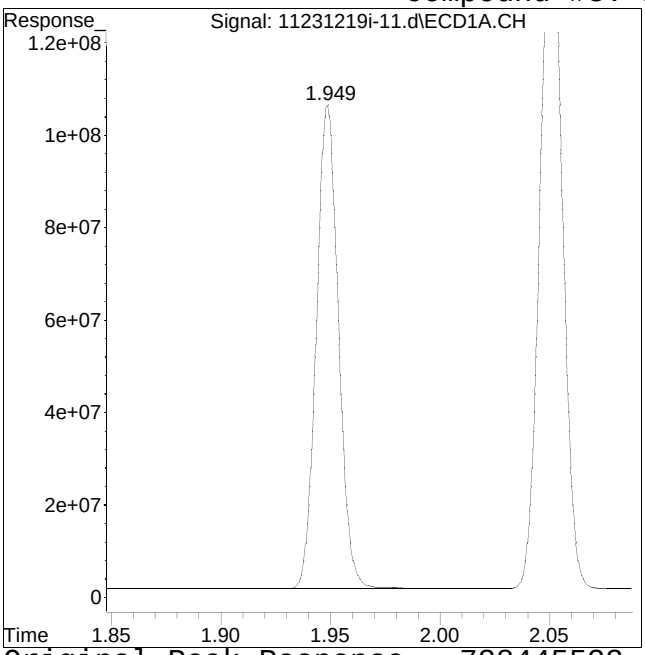


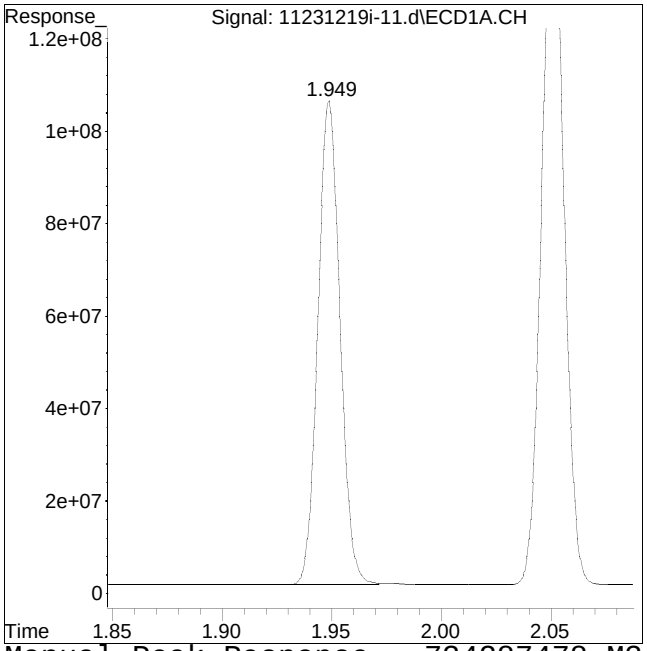
Original Peak Response = 119556476 Manual Peak Response = 119320908 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-11.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 3:23 pm Instrument : Pest 11
Sample : il10pest,42e,,pp 11398 L0.Quant Date : 12/20/2023 5:29 pm

Compound #3: Hexachlorobenzene



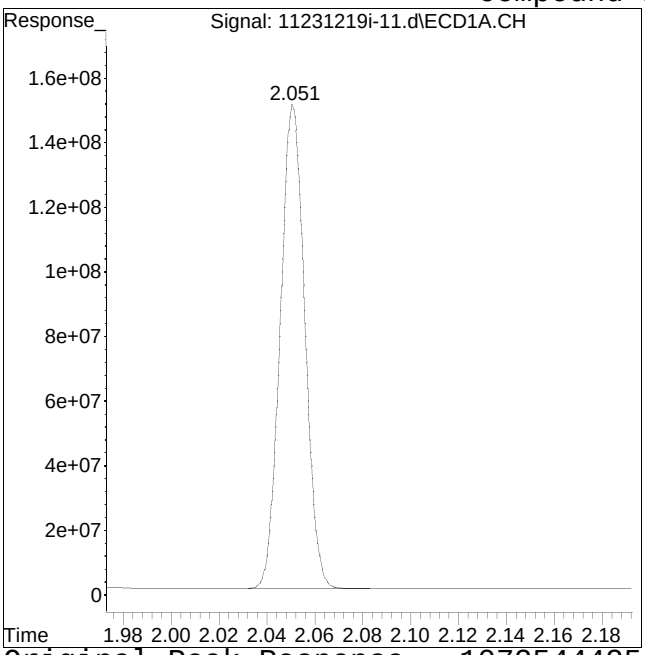


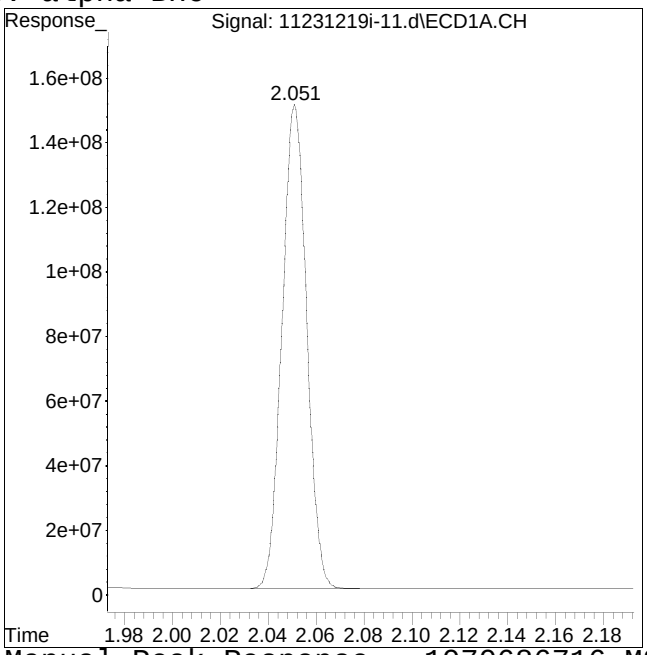
Original Peak Response = 738445523 Manual Peak Response = 734287478 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-11.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 3:23 pm Instrument : Pest 11
Sample : il10pest,42e,,pp 11398 L0.Quant Date : 12/20/2023 5:29 pm

Compound #4: alpha-BHC



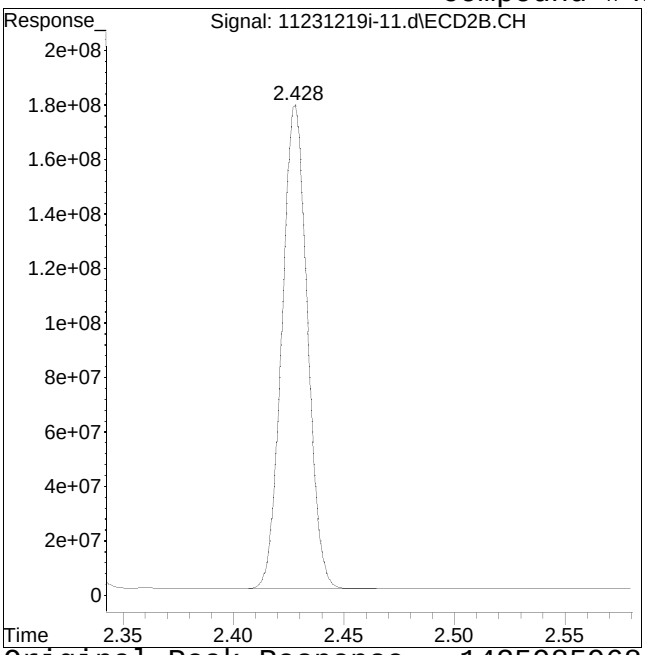


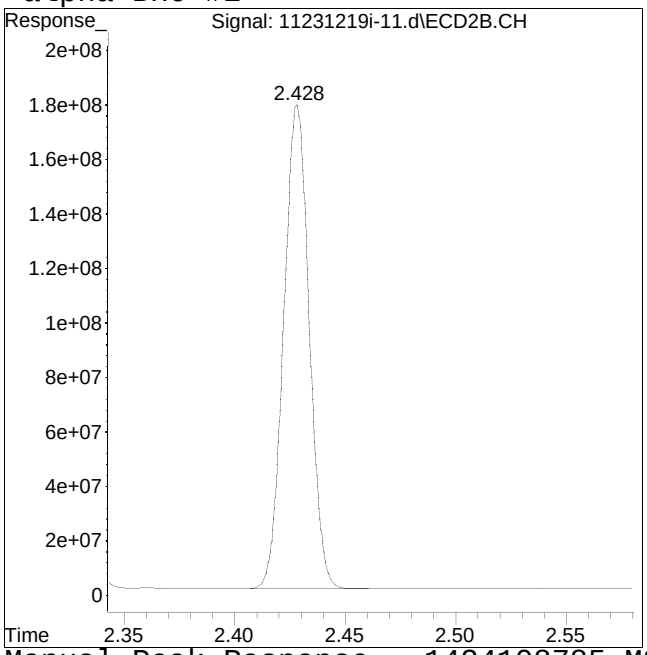
Original Peak Response = 1072544425 Manual Peak Response = 1070686716 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-11.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 3:23 pm Instrument : Pest 11
Sample : il10pest,42e,,pp 11398 L0.Quant Date : 12/20/2023 5:29 pm

Compound #42: alpha-BHC #2



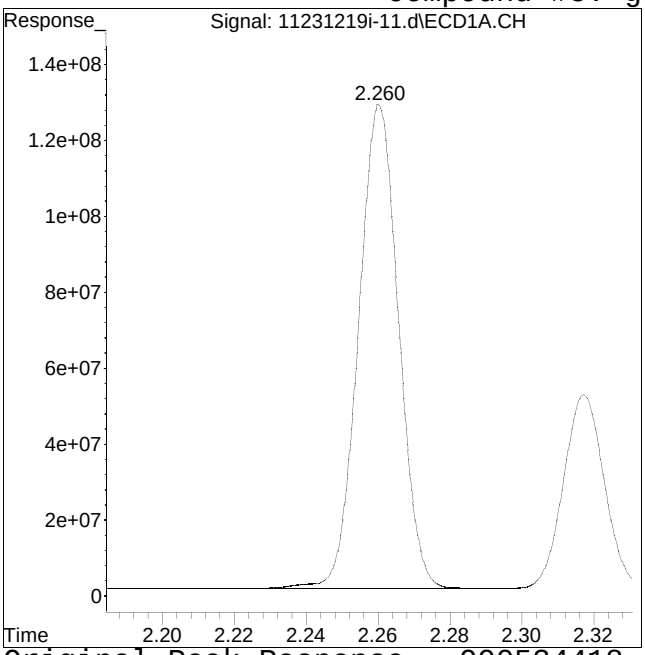


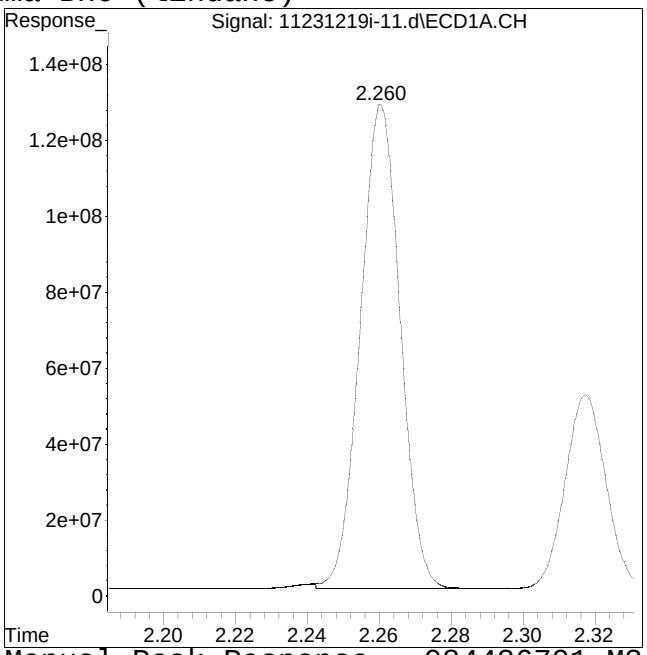
Original Peak Response = 1425985968 Manual Peak Response = 1424108785 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-11.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 3:23 pm Instrument : Pest 11
Sample : il10pest,42e,,pp 11398 L0.Quant Date : 12/20/2023 5:29 pm

Compound #5: gamma-BHC (lindane)



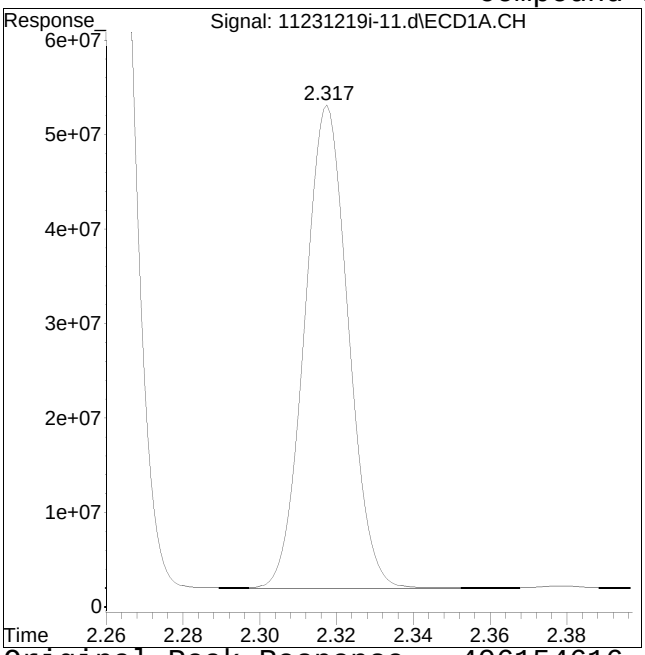


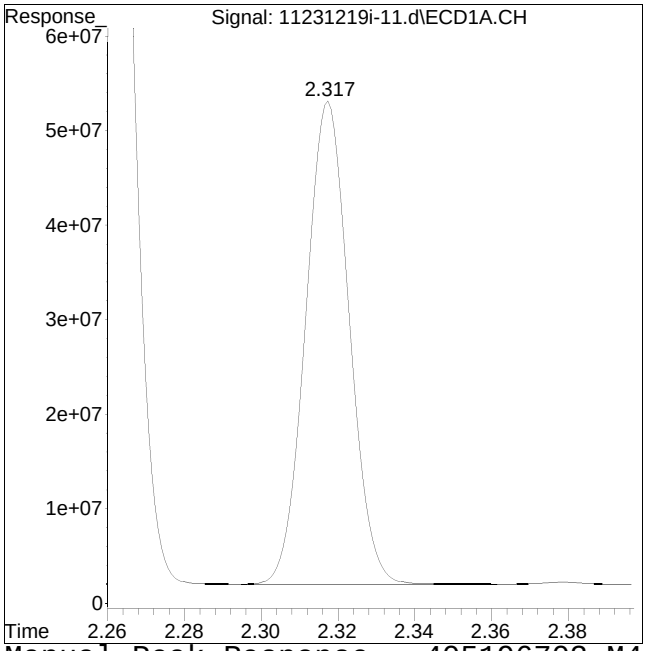
Original Peak Response = 990534418 Manual Peak Response = 984426791 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-11.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 3:23 pm Instrument : Pest 11
Sample : il10pest,42e,,pp 11398 L0.Quant Date : 12/20/2023 5:29 pm

Compound #6: beta-BHC



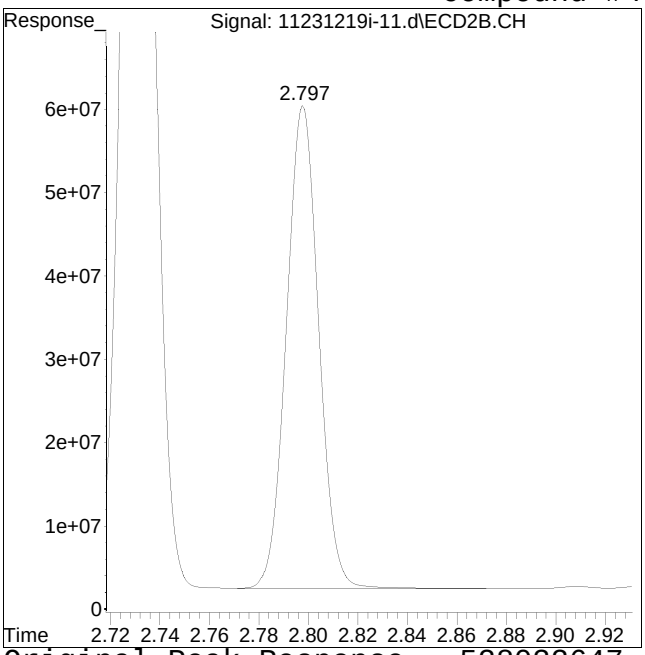


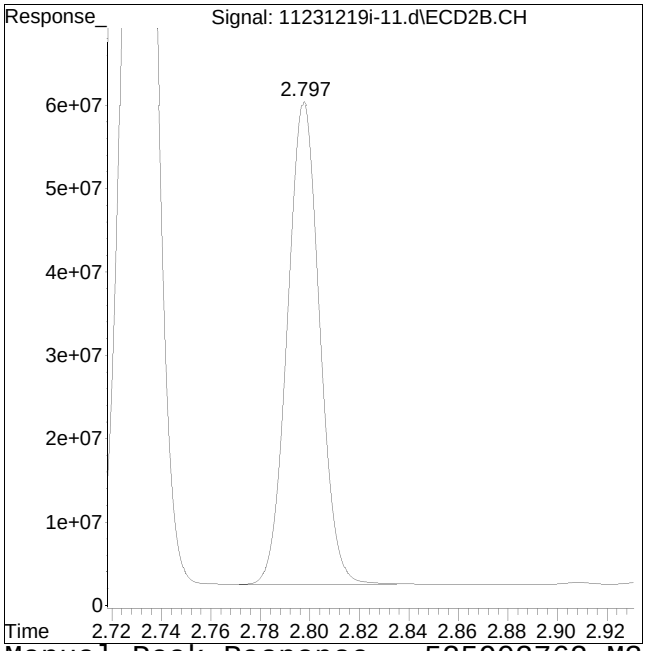
Original Peak Response = 406154616 Manual Peak Response = 405196703 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-11.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 3:23 pm Instrument : Pest 11
Sample : il10pest,42e,,pp 11398 L0.Quant Date : 12/20/2023 5:29 pm

Compound #44: beta-BHC #2



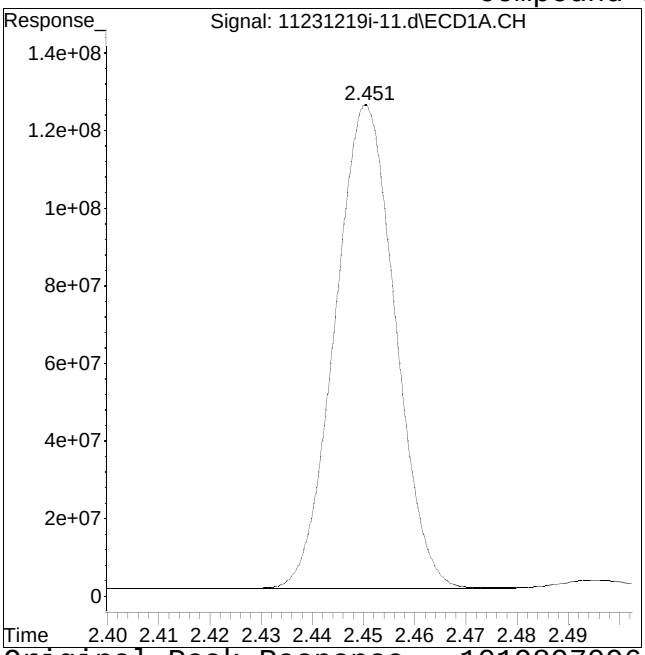


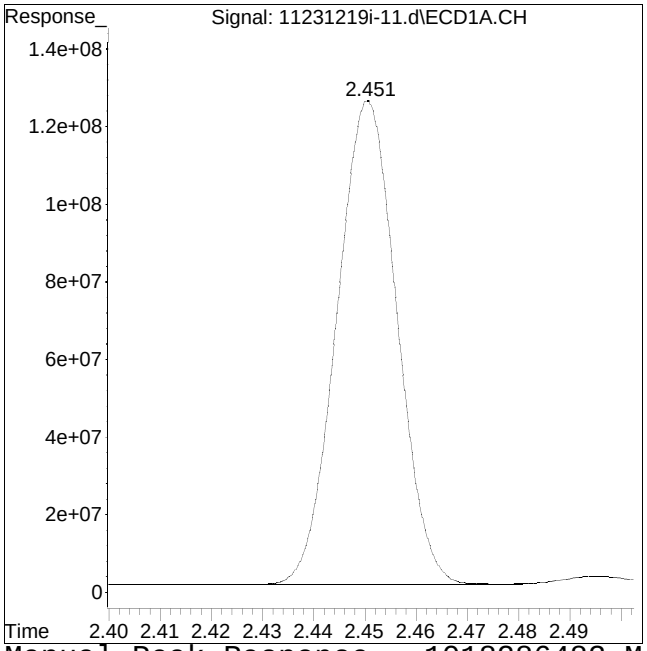
Original Peak Response = 528032647 Manual Peak Response = 525903762 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-11.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 3:23 pm Instrument : Pest 11
Sample : il10pest,42e,,pp 11398 L0.Quant Date : 12/20/2023 5:29 pm

Compound #7: delta-BHC



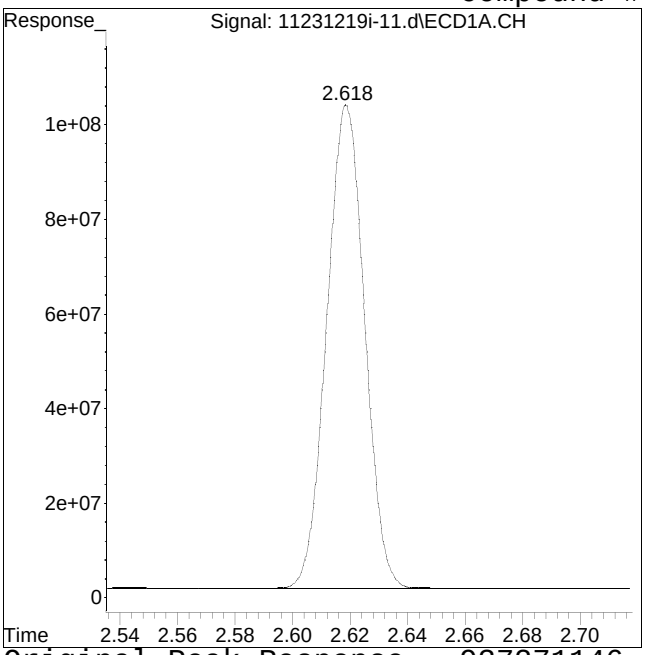


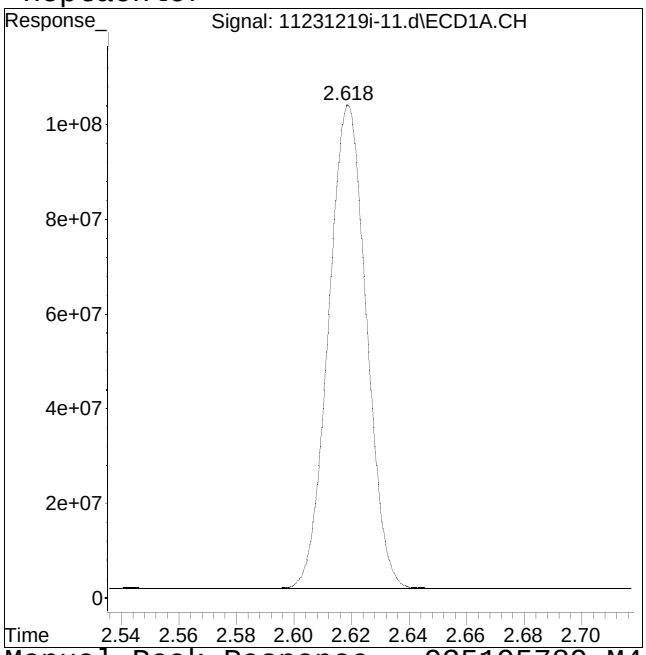
Original Peak Response = 1019897096 Manual Peak Response = 1018286483 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-11.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 3:23 pm Instrument : Pest 11
Sample : il10pest,42e,,pp 11398 L0.Quant Date : 12/20/2023 5:29 pm

Compound #8: Heptachlor



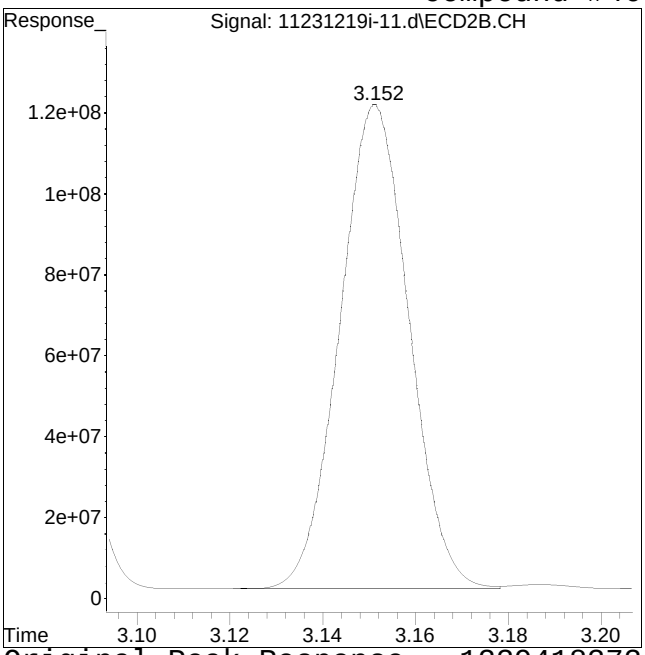


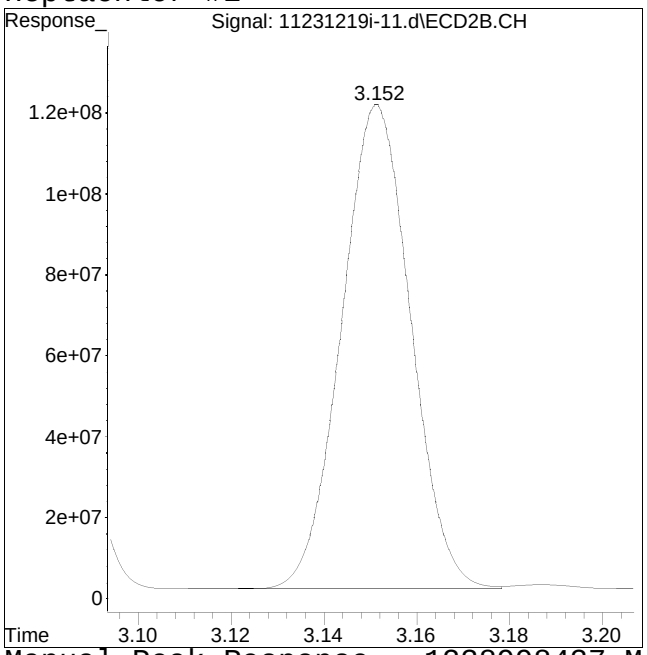
Original Peak Response = 937271146 Manual Peak Response = 935195789 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-11.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 3:23 pm Instrument : Pest 11
Sample : il10pest,42e,,pp 11398 L0.Quant Date : 12/20/2023 5:29 pm

Compound #46: Heptachlor #2



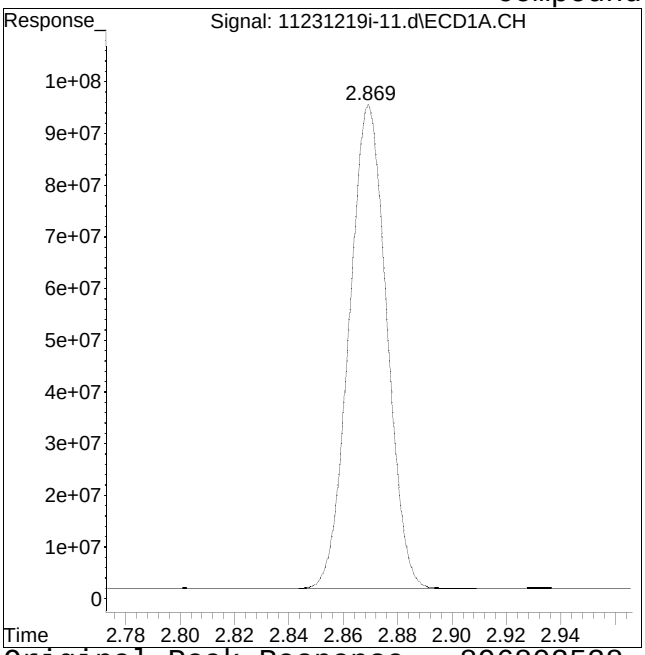


Original Peak Response = 1239418373 Manual Peak Response = 1238998437 M4
M4 = Poor automated baseline construction.

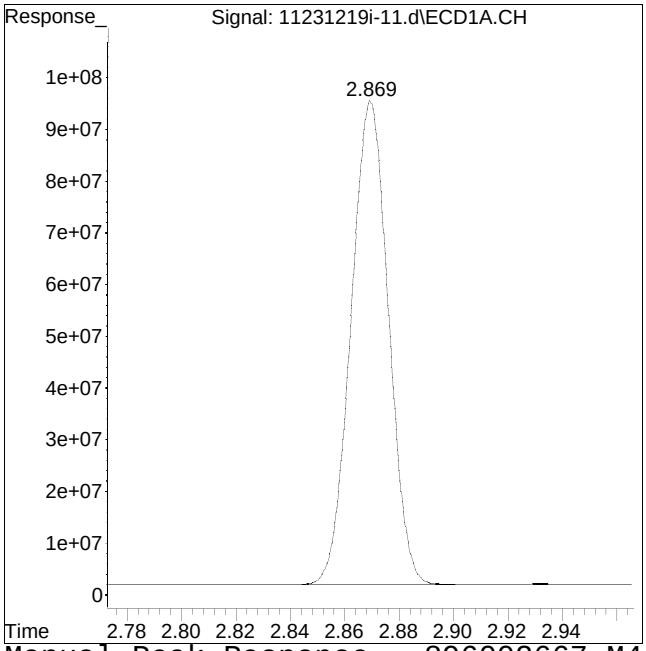
Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-11.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 3:23 pm Instrument : Pest 11
Sample : il10pest,42e,,pp 11398 L0.Quant Date : 12/20/2023 5:29 pm

Compound #9: Aldrin



Original Peak Response = 896802538



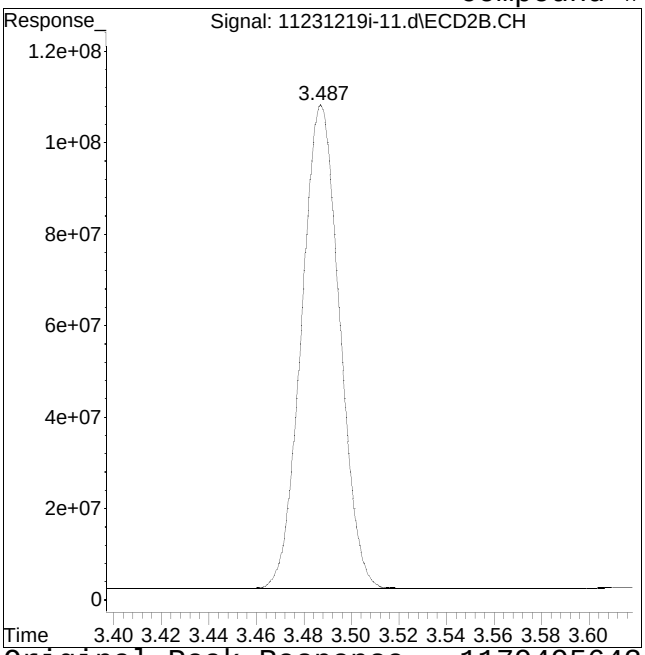
Manual Peak Response = 896002667 M4

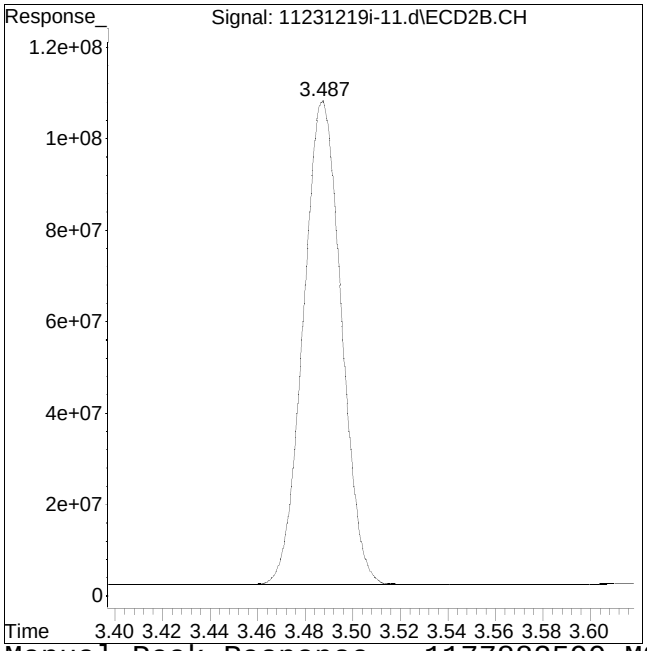
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-11.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 3:23 pm Instrument : Pest 11
Sample : il10pest,42e,,pp 11398 L0.Quant Date : 12/20/2023 5:29 pm

Compound #47: Aldrin #2



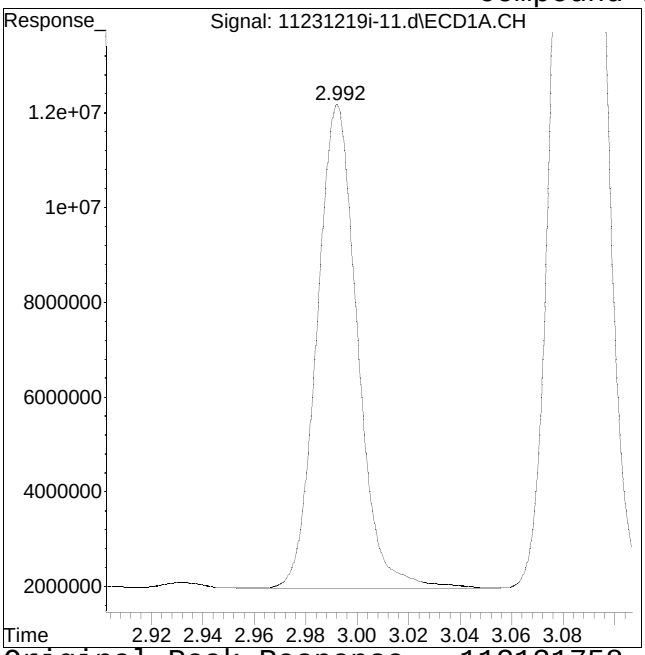


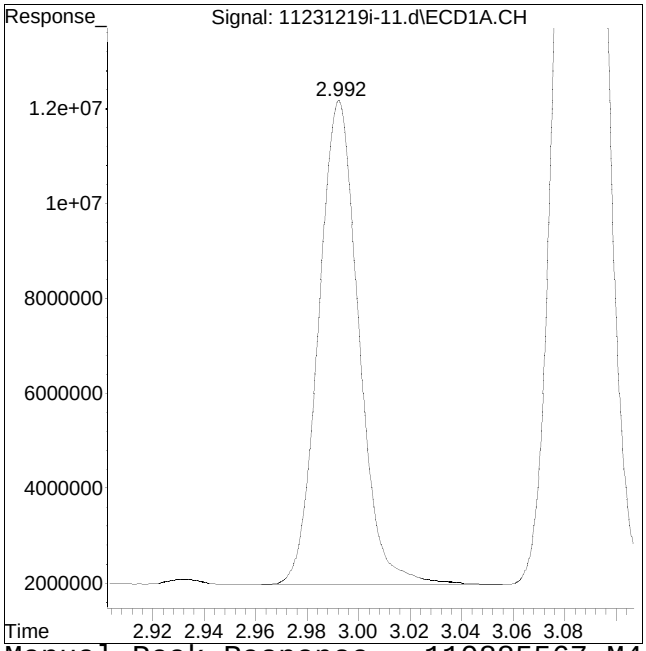
Original Peak Response = 1179495643 Manual Peak Response = 1177882590 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-11.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 3:23 pm Instrument : Pest 11
Sample : il10pest,42e,,pp 11398 L0.Quant Date : 12/20/2023 5:29 pm

Compound #10: Alachlor



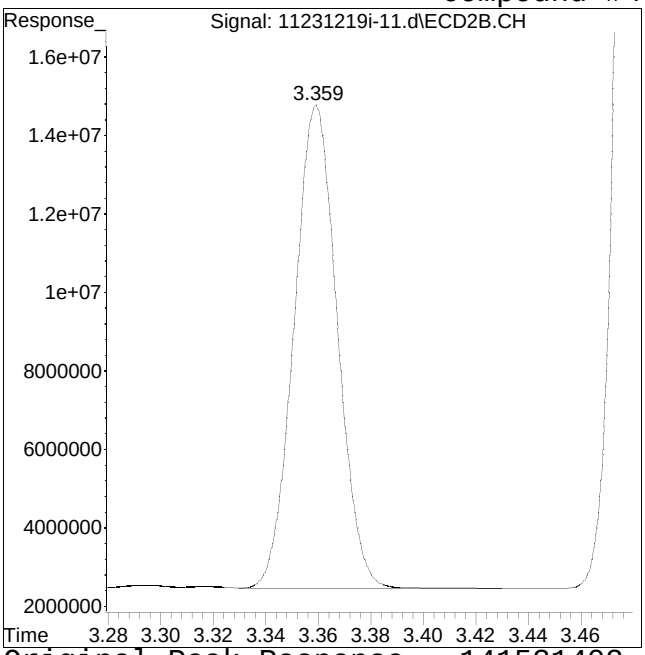


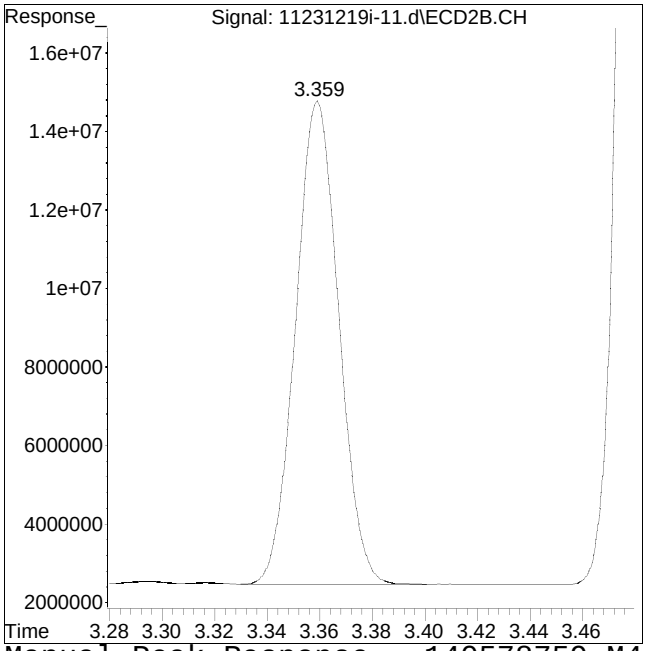
Original Peak Response = 112131758 Manual Peak Response = 110885567 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-11.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 3:23 pm Instrument : Pest 11
Sample : il10pest,42e,,pp 11398 L0.Quant Date : 12/20/2023 5:29 pm

Compound #48: Alachlor #2



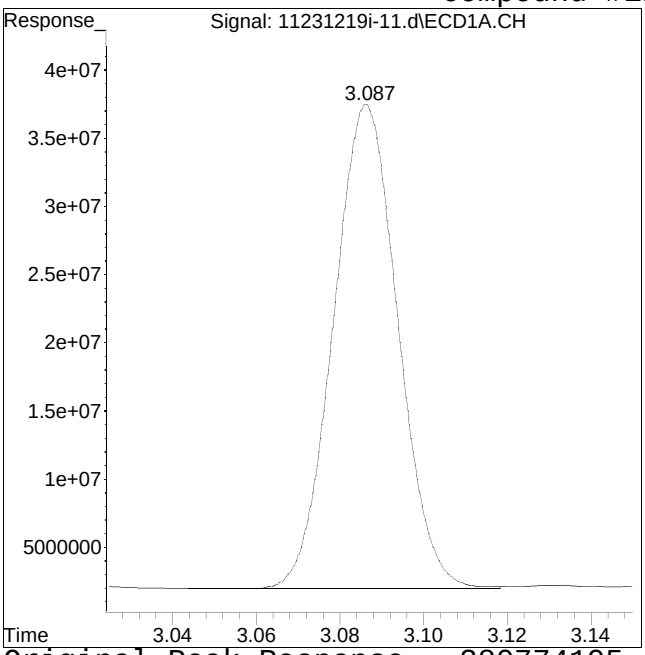


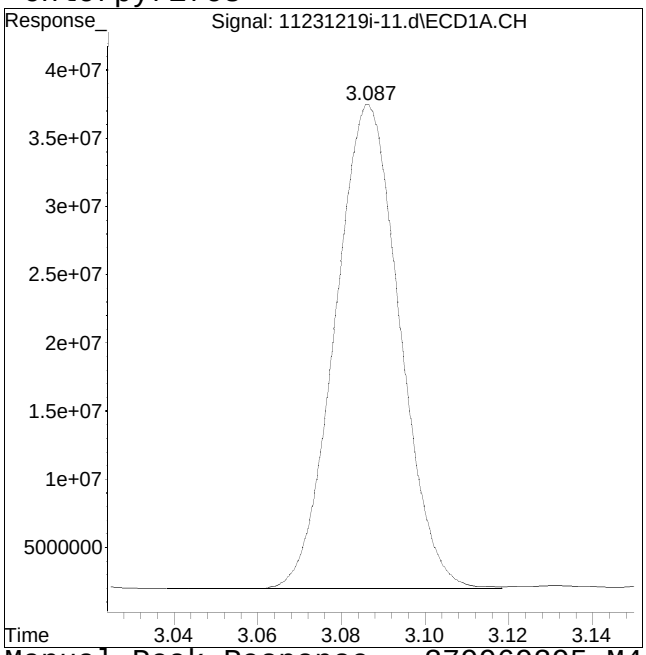
Original Peak Response = 141531402 Manual Peak Response = 140578759 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-11.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 3:23 pm Instrument : Pest 11
Sample : il10pest,42e,,pp 11398 L0.Quant Date : 12/20/2023 5:29 pm

Compound #11: Chlorpyrifos



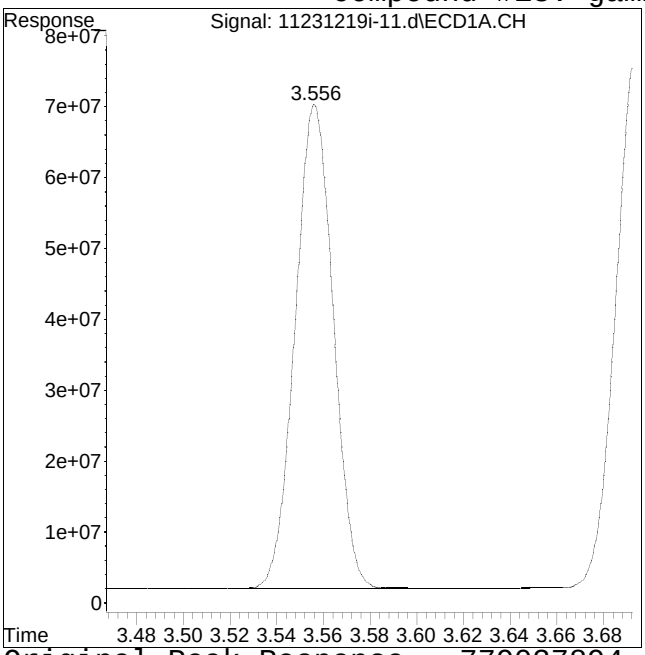


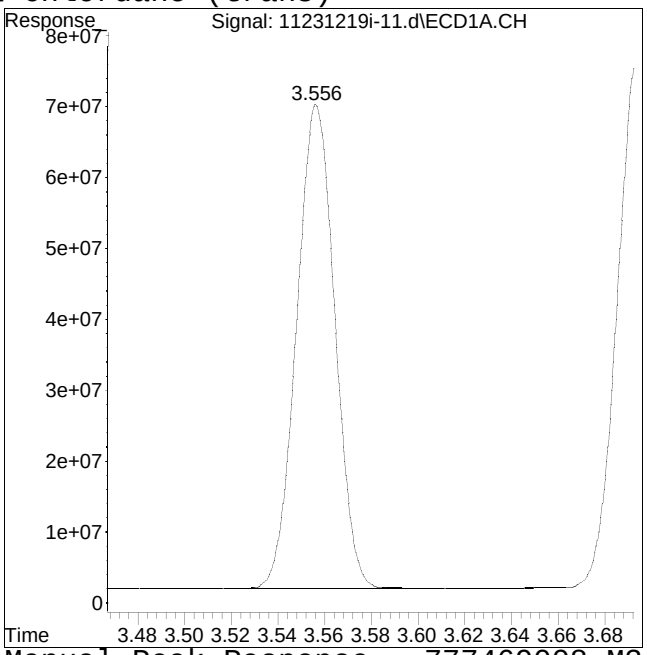
Original Peak Response = 380774195 Manual Peak Response = 379969395 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-11.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 3:23 pm Instrument : Pest 11
Sample : il10pest,42e,,pp 11398 L0.Quant Date : 12/20/2023 5:29 pm

Compound #13: gamma-Chlordane (trans)



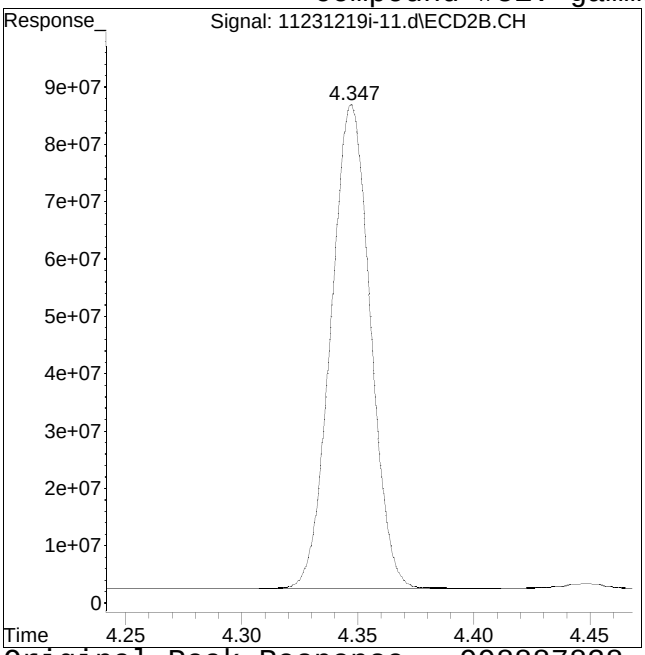


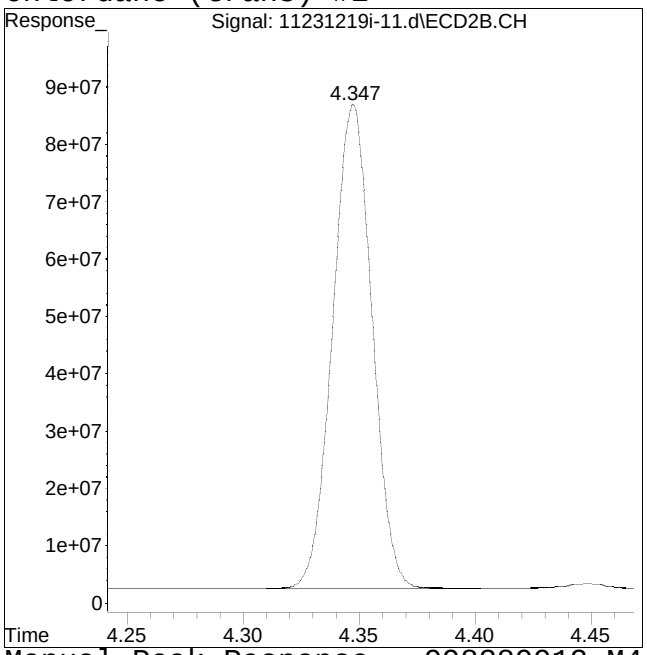
Original Peak Response = 779037894 Manual Peak Response = 777469008 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-11.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 3:23 pm Instrument : Pest 11
Sample : il10pest,42e,,pp 11398 L0.Quant Date : 12/20/2023 5:29 pm

Compound #51: gamma-Chlordane (trans) #2



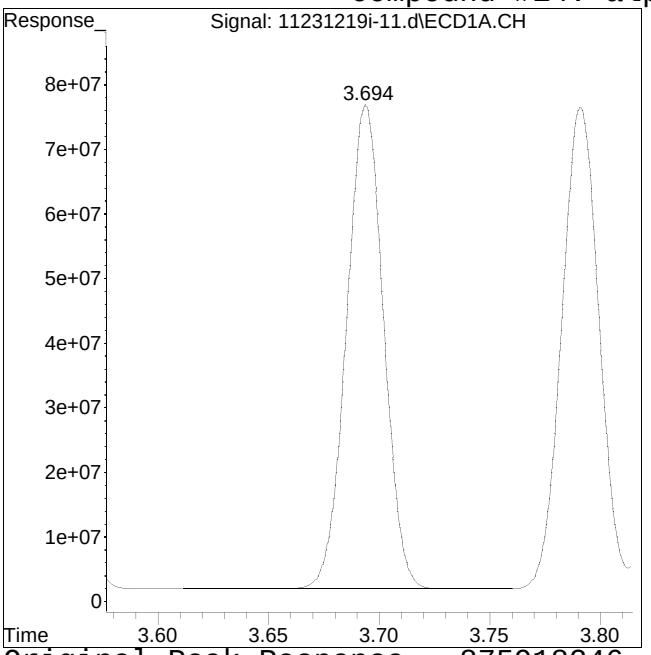


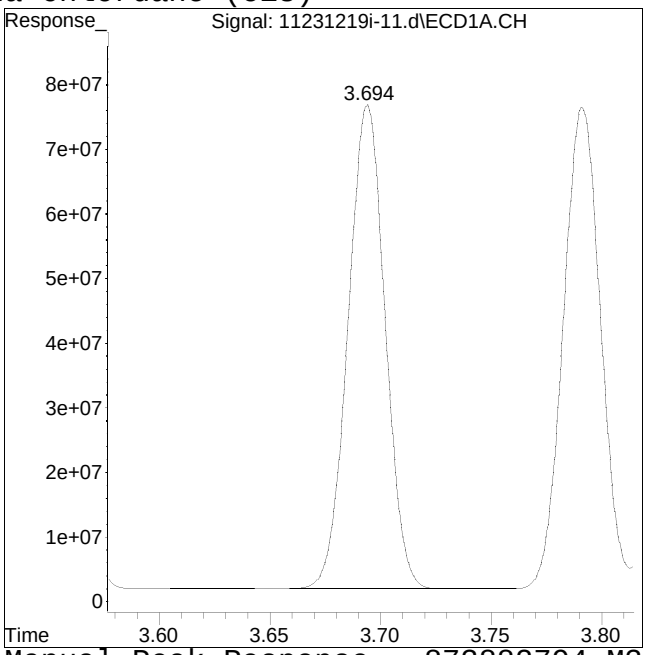
Original Peak Response = 998887838 Manual Peak Response = 998389912 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-11.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 3:23 pm Instrument : Pest 11
Sample : il10pest,42e,,pp 11398 L0.Quant Date : 12/20/2023 5:29 pm

Compound #14: alpha-Chlordane (cis)



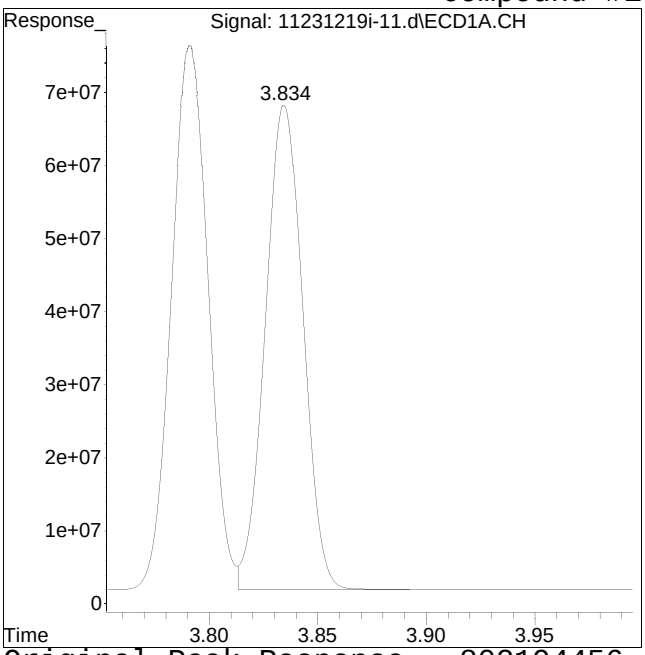


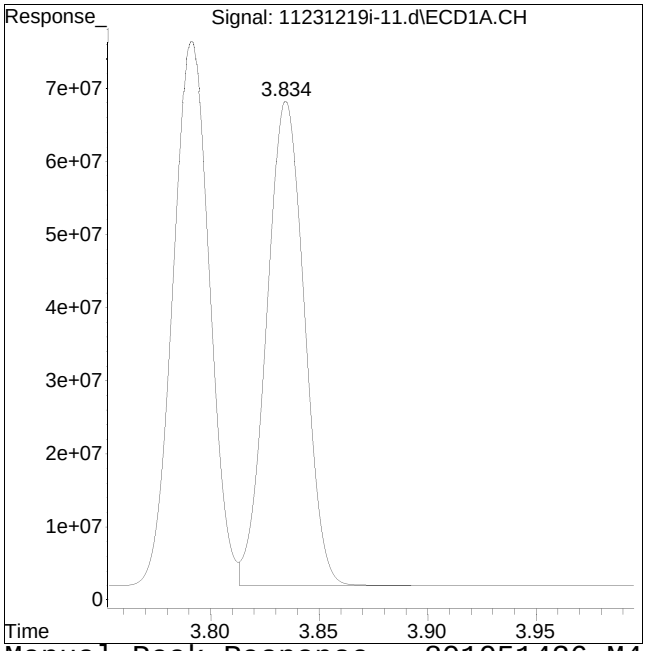
Original Peak Response = 875918246 Manual Peak Response = 873882794 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-11.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 3:23 pm Instrument : Pest 11
Sample : il10pest,42e,,pp 11398 L0.Quant Date : 12/20/2023 5:29 pm

Compound #16: Endosulfan I



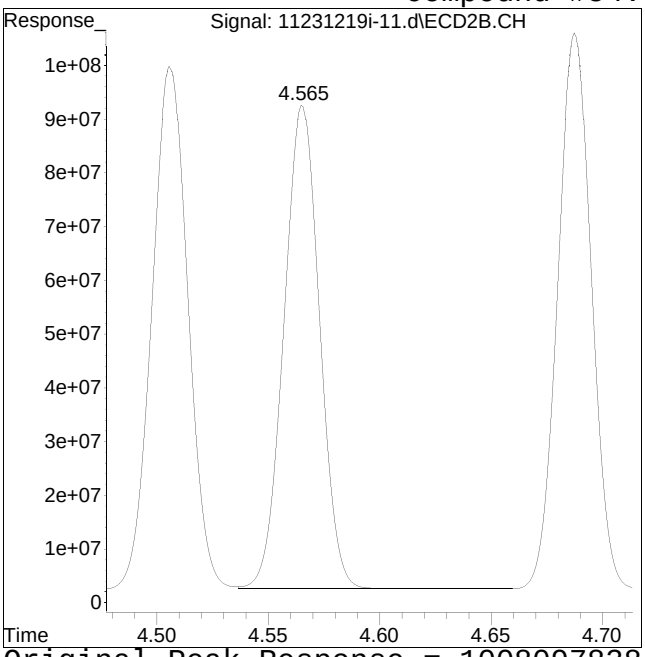


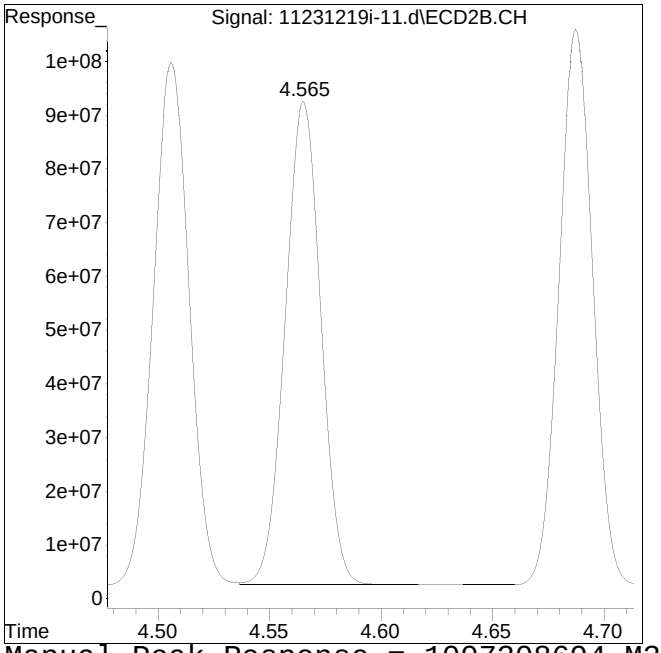
Original Peak Response = 802194456 Manual Peak Response = 801051436 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-11.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 3:23 pm Instrument : Pest 11
Sample : il10pest,42e,,pp 11398 L0.Quant Date : 12/20/2023 5:29 pm

Compound #54: Endosulfan I #2



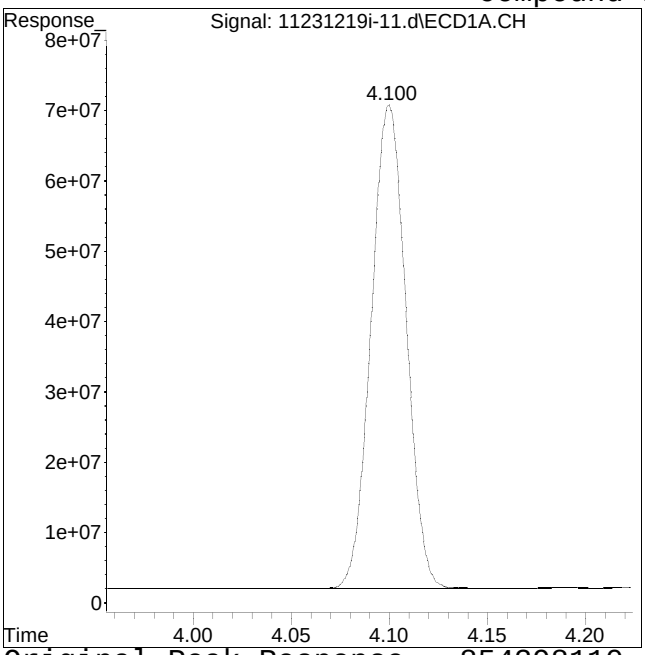


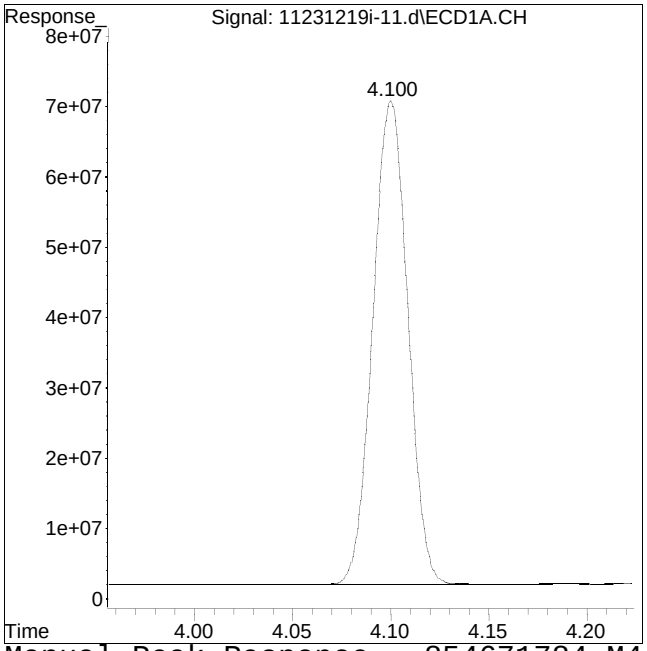
Original Peak Response = 1008097838 Manual Peak Response = 1007308694 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-11.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 3:23 pm Instrument : Pest 11
Sample : il10pest,42e,,pp 11398 L0.Quant Date : 12/20/2023 5:29 pm

Compound #17: Dieldrin



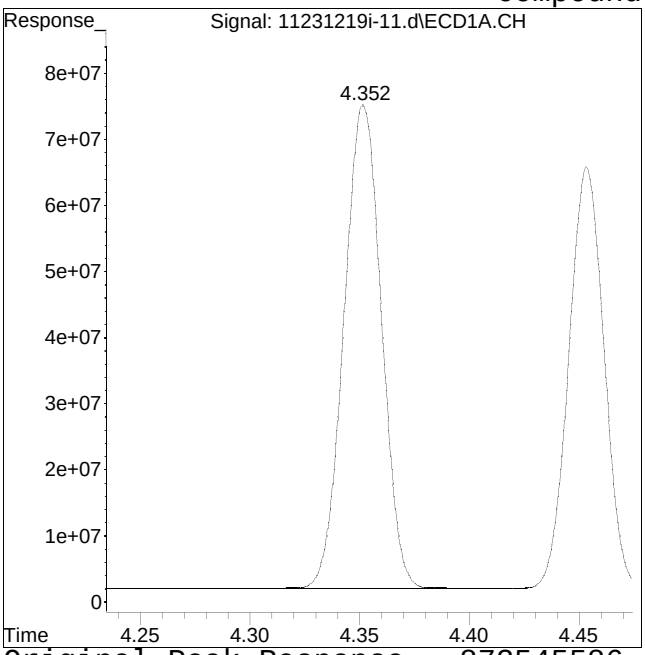


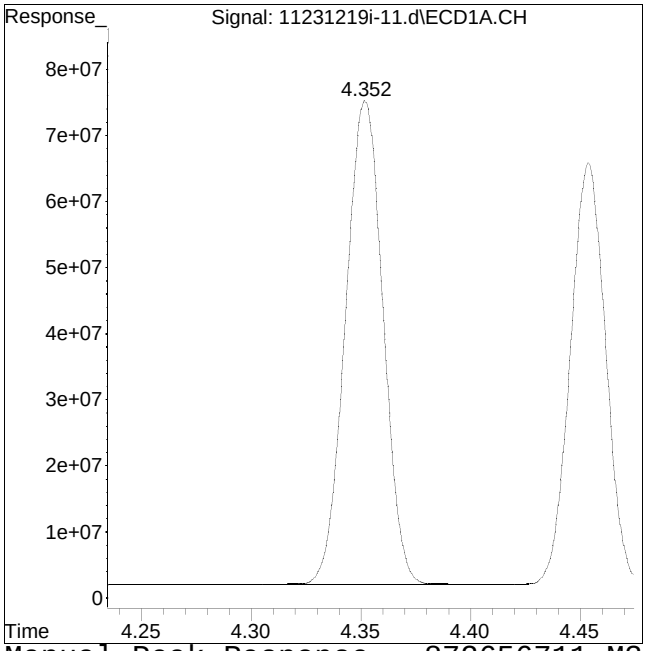
Original Peak Response = 854398110 Manual Peak Response = 854671784 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-11.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 3:23 pm Instrument : Pest 11
Sample : il10pest,42e,,pp 11398 L0.Quant Date : 12/20/2023 5:29 pm

Compound #18: Endrin



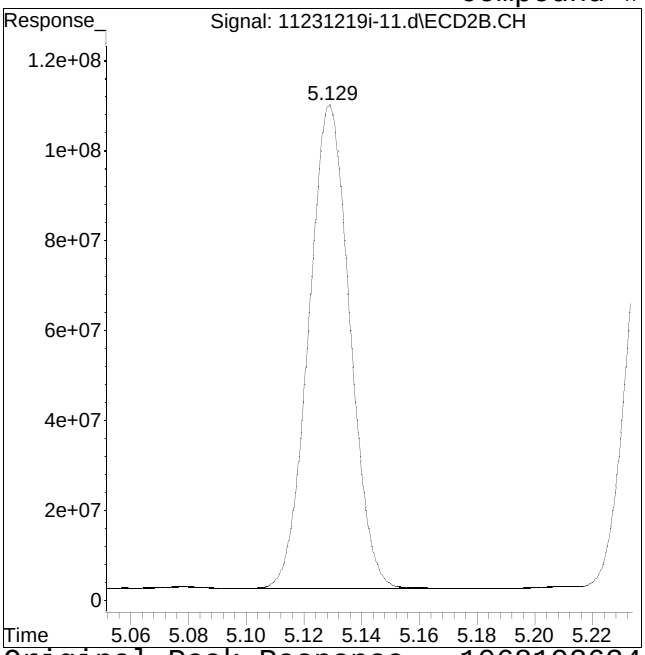


Original Peak Response = 873545586 Manual Peak Response = 872656711 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

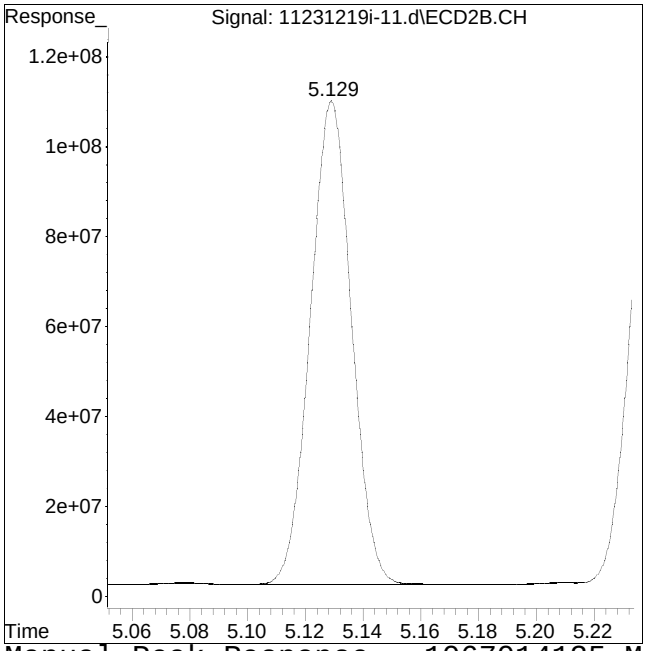
Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-11.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 3:23 pm Instrument : Pest 11
Sample : il10pest,42e,,pp 11398 L0.Quant Date : 12/20/2023 5:29 pm

Compound #56: Endrin #2



Original Peak Response = 1068192634



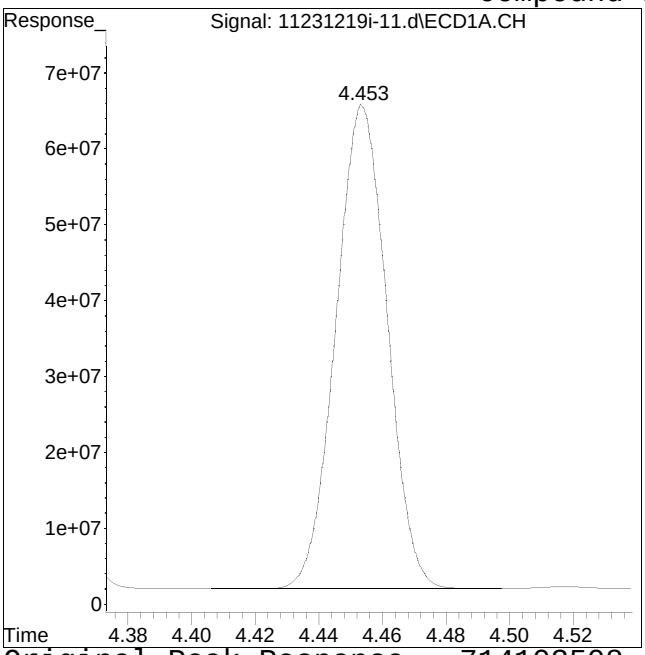
Manual Peak Response = 1067014135 M4

M4 = Poor automated baseline construction.

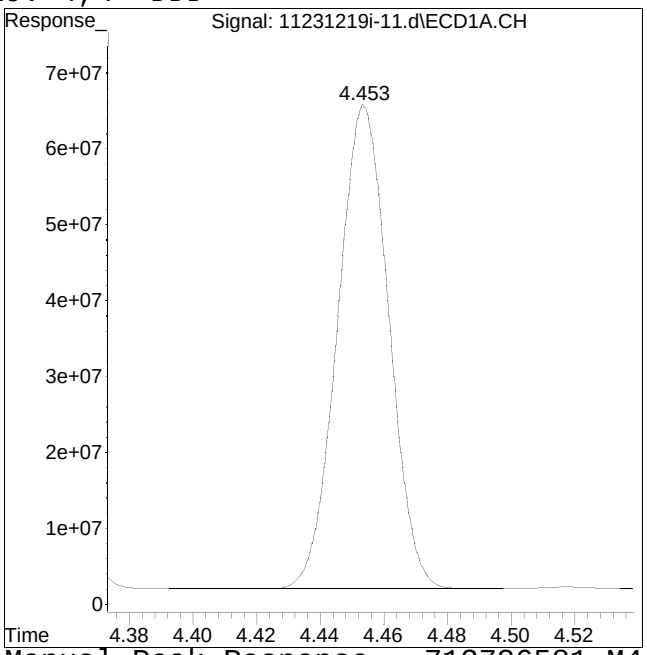
Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-11.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 3:23 pm Instrument : Pest 11
Sample : il10pest,42e,,pp 11398 L0.Quant Date : 12/20/2023 5:29 pm

Compound #19: 4,4'-DDD



Original Peak Response = 714103508

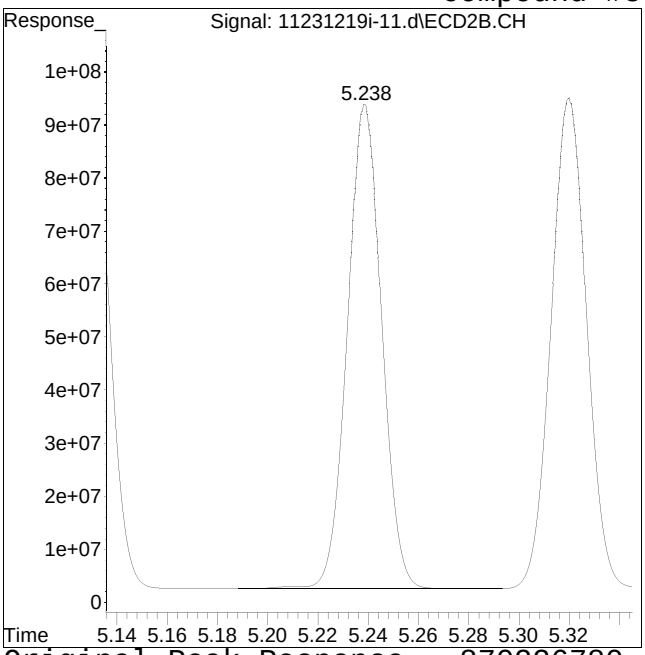


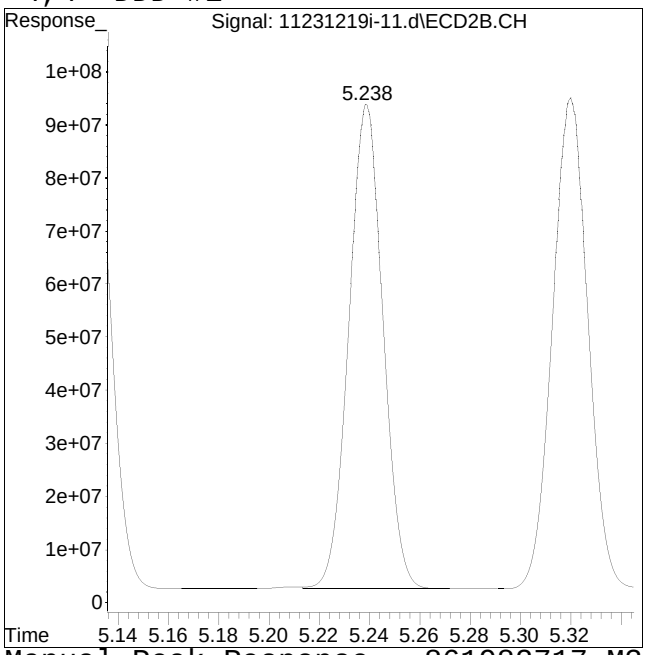
Manual Peak Response = 712736581 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-11.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 3:23 pm Instrument : Pest 11
Sample : il10pest,42e,,pp 11398 L0.Quant Date : 12/20/2023 5:29 pm

Compound #57: 4,4'-DDD #2



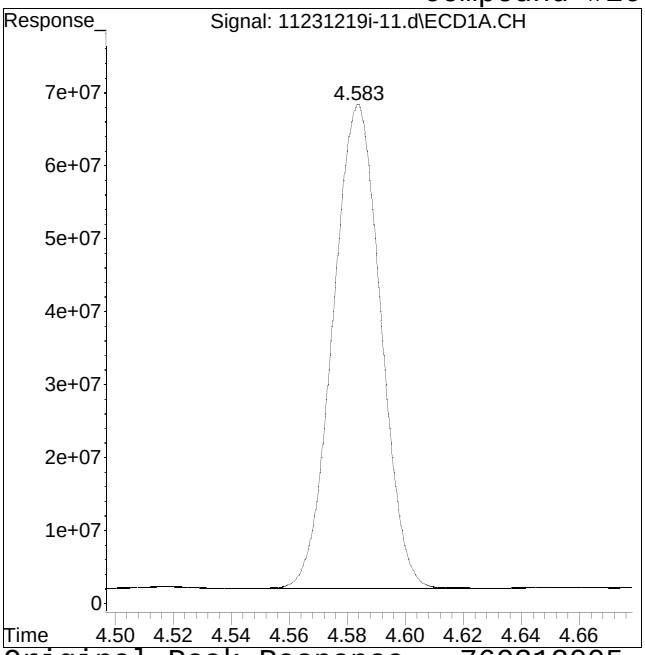


Original Peak Response = 870226780 Manual Peak Response = 861982717 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

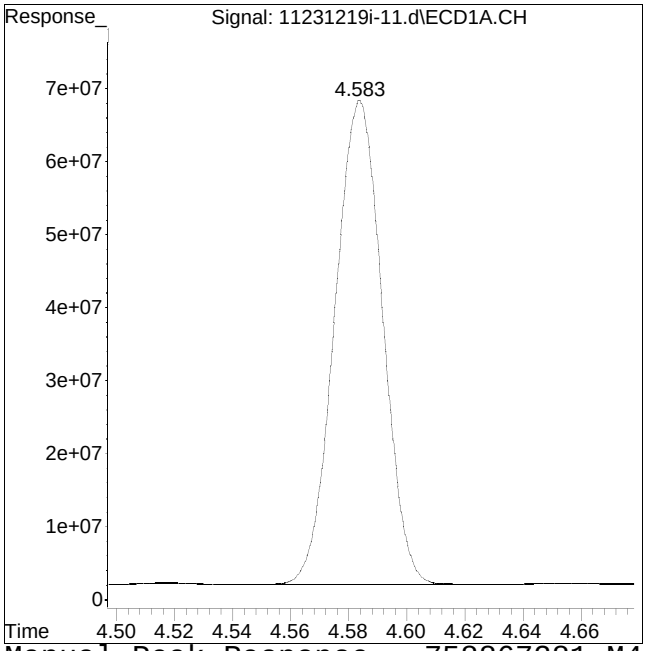
Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-11.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 3:23 pm Instrument : Pest 11
Sample : il10pest,42e,,pp 11398 L0.Quant Date : 12/20/2023 5:29 pm

Compound #20: Endosulfan II



Original Peak Response = 760312005



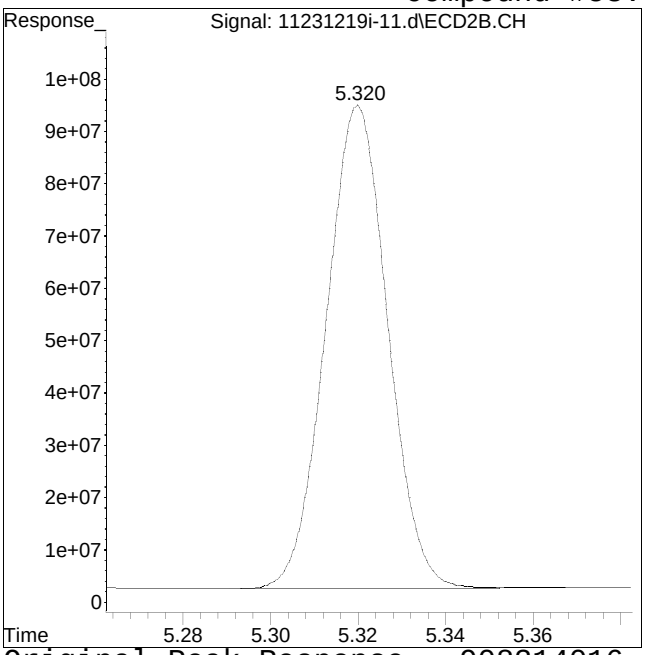
Manual Peak Response = 758867281 M4

M4 = Poor automated baseline construction.

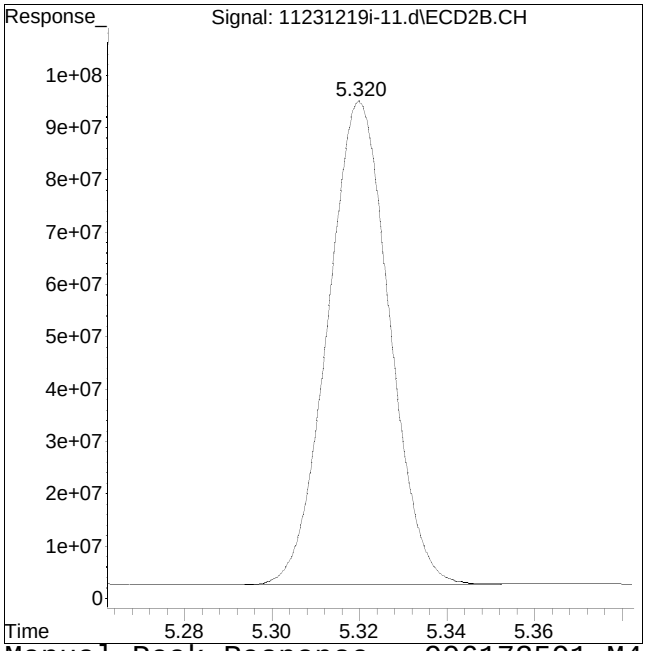
Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-11.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 3:23 pm Instrument : Pest 11
Sample : il10pest,42e,,pp 11398 L0.Quant Date : 12/20/2023 5:29 pm

Compound #58: Endosulfan II #2



Original Peak Response = 908314016



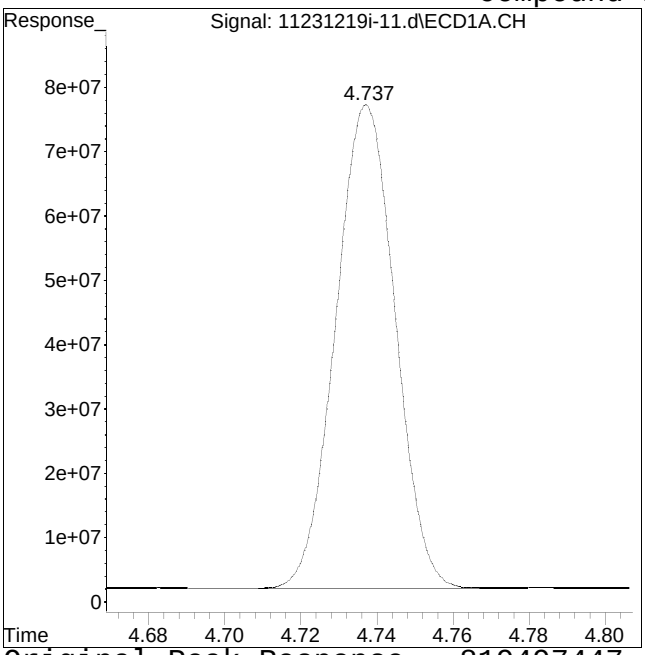
Manual Peak Response = 906173591 M4

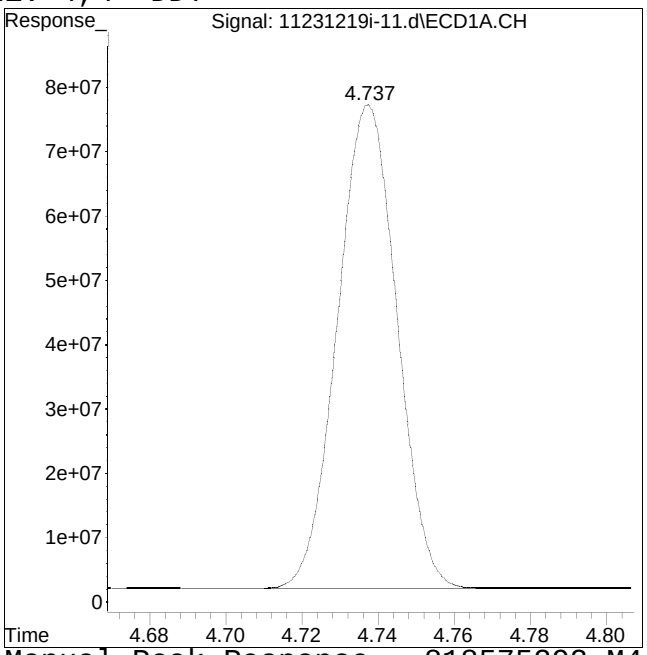
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-11.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 3:23 pm Instrument : Pest 11
Sample : il10pest,42e,,pp 11398 L0.Quant Date : 12/20/2023 5:29 pm

Compound #21: 4,4'-DDT



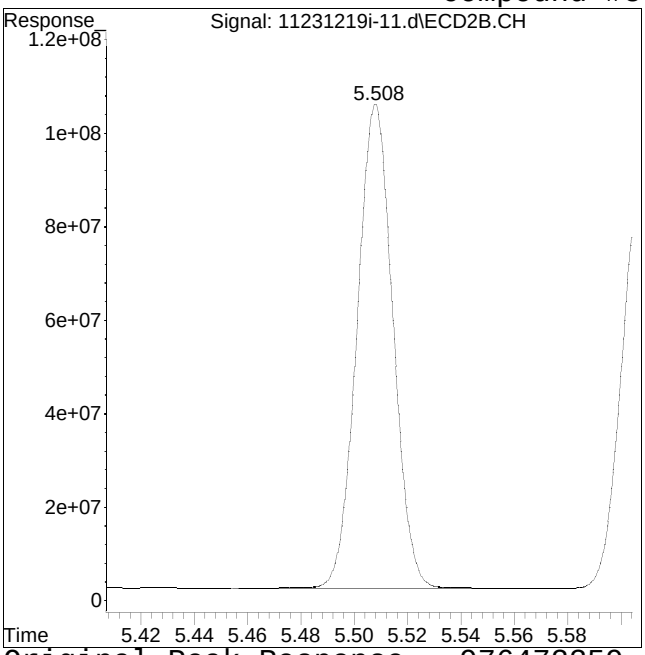


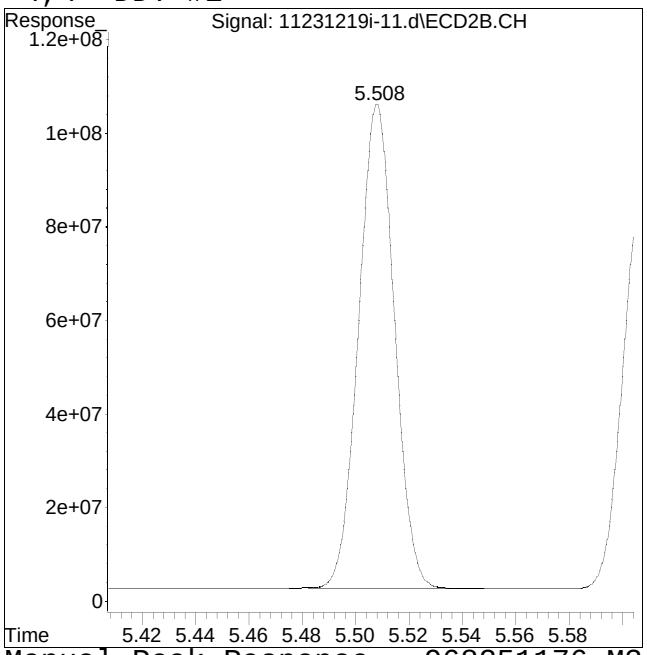
Original Peak Response = 819497447 Manual Peak Response = 818575292 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-11.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 3:23 pm Instrument : Pest 11
Sample : il10pest,42e,,pp 11398 L0.Quant Date : 12/20/2023 5:29 pm

Compound #59: 4,4'-DDT #2



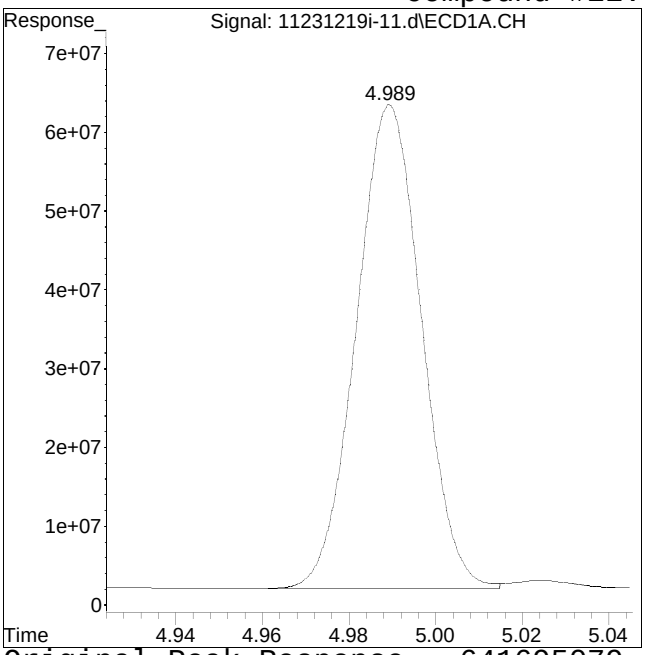


Original Peak Response = 976472359 Manual Peak Response = 968251176 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

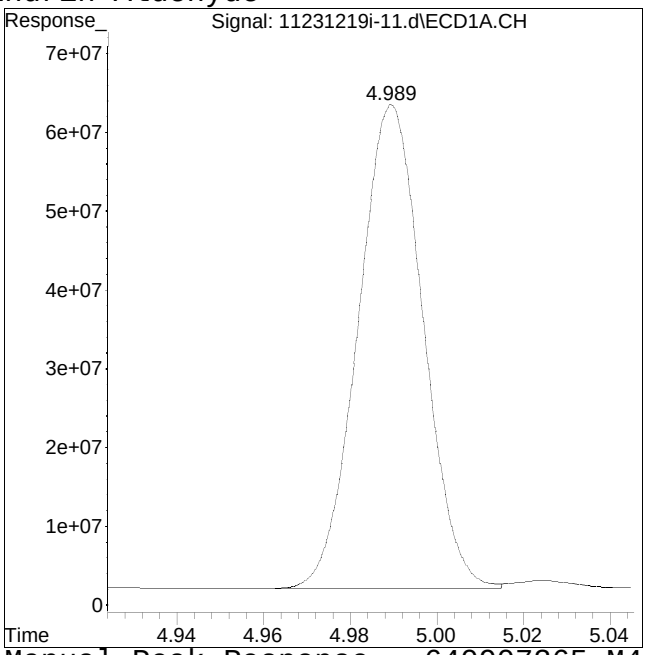
Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-11.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 3:23 pm Instrument : Pest 11
Sample : il10pest,42e,,pp 11398 L0.Quant Date : 12/20/2023 5:29 pm

Compound #22: Endrin Aldehyde



Original Peak Response = 641695079

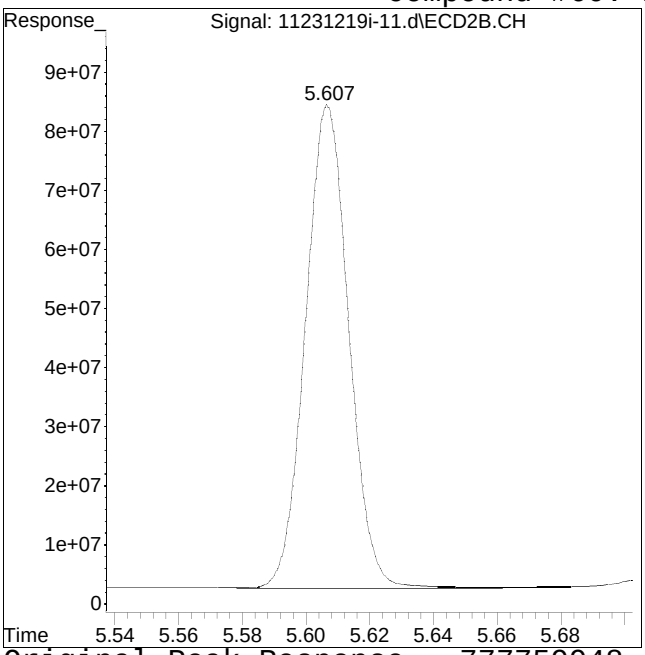


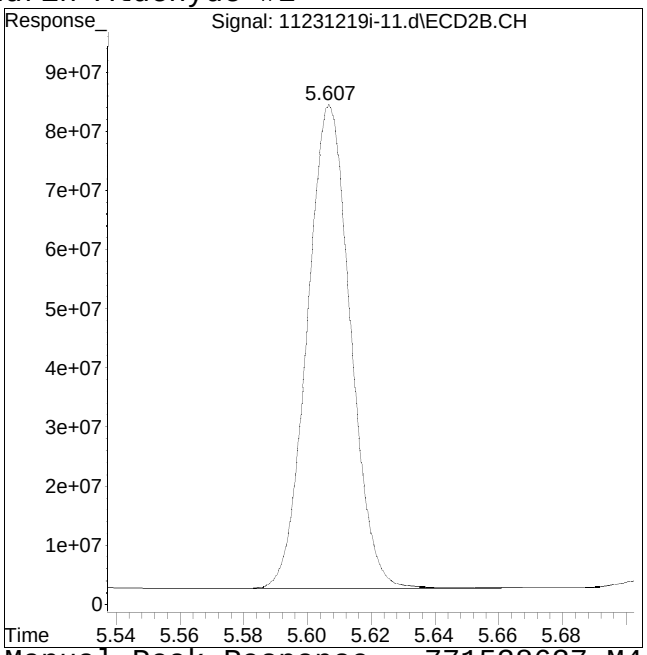
Manual Peak Response = 640907365 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-11.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 3:23 pm Instrument : Pest 11
Sample : il10pest,42e,,pp 11398 L0.Quant Date : 12/20/2023 5:29 pm

Compound #60: Endrin Aldehyde #2



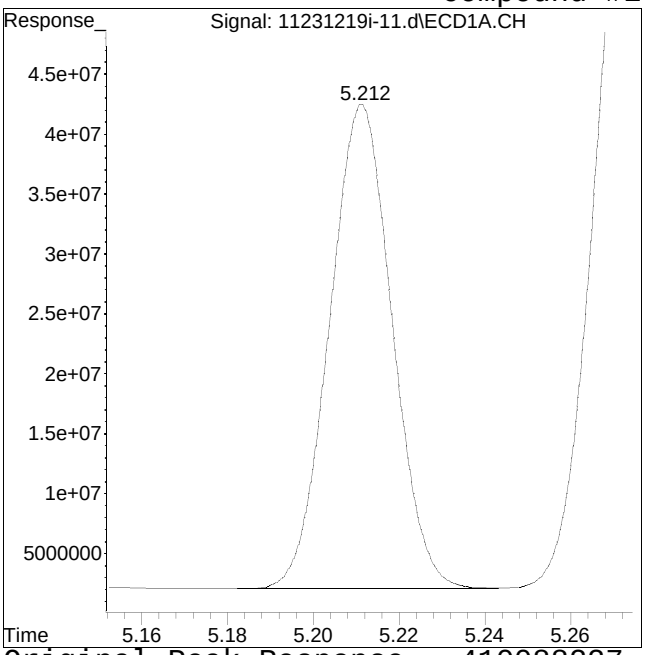


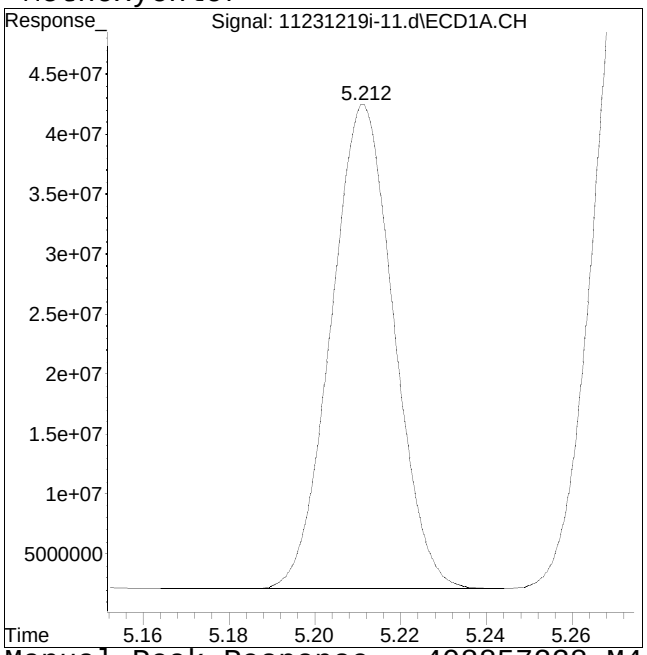
Original Peak Response = 777759948 Manual Peak Response = 771538637 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-11.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 3:23 pm Instrument : Pest 11
Sample : il10pest,42e,,pp 11398 L0.Quant Date : 12/20/2023 5:29 pm

Compound #23: Methoxychlor



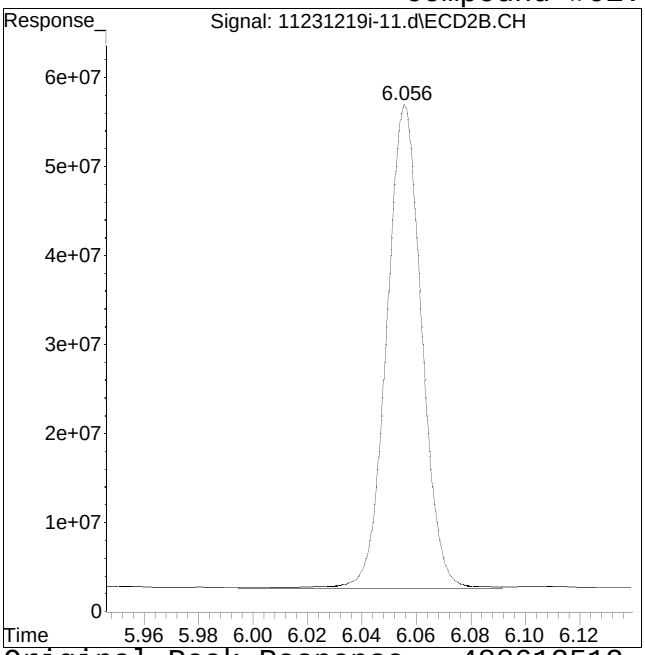


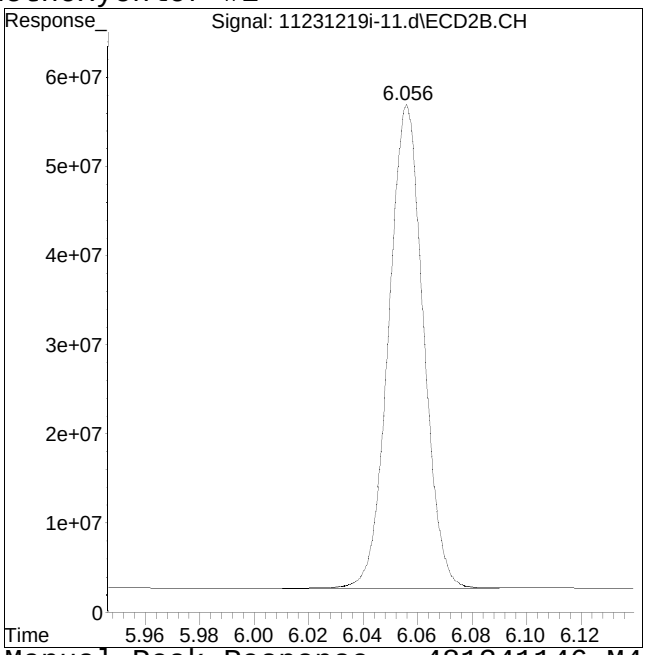
Original Peak Response = 410088227 Manual Peak Response = 408857238 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-11.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 3:23 pm Instrument : Pest 11
Sample : il10pest,42e,,pp 11398 L0.Quant Date : 12/20/2023 5:29 pm

Compound #61: Methoxychlor #2



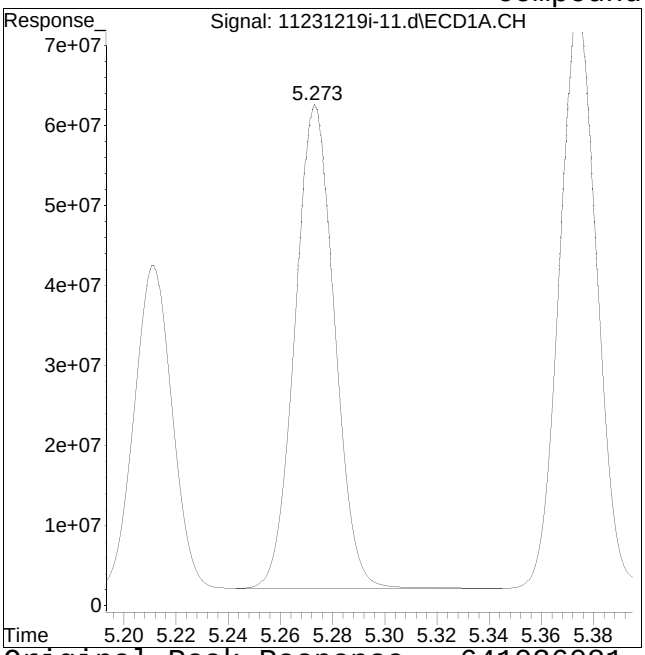


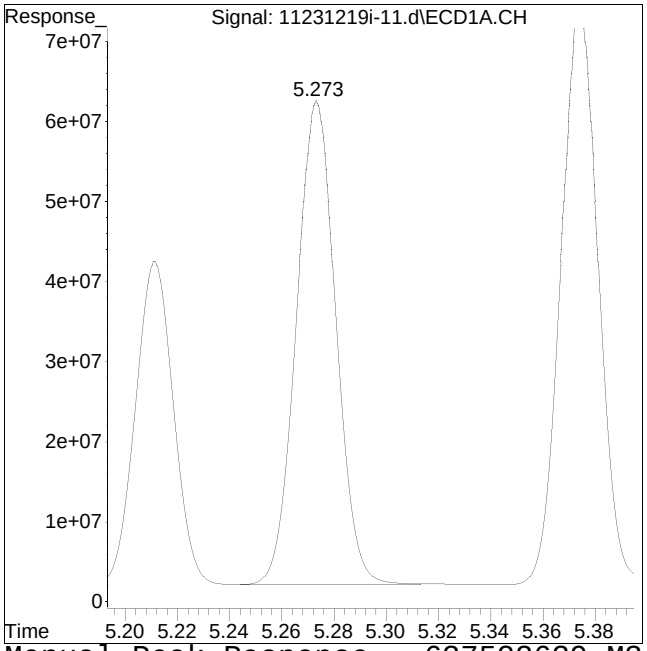
Original Peak Response = 488612512 Manual Peak Response = 481341146 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-11.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 3:23 pm Instrument : Pest 11
Sample : il10pest,42e,,pp 11398 L0.Quant Date : 12/20/2023 5:29 pm

Compound #24: Mirex



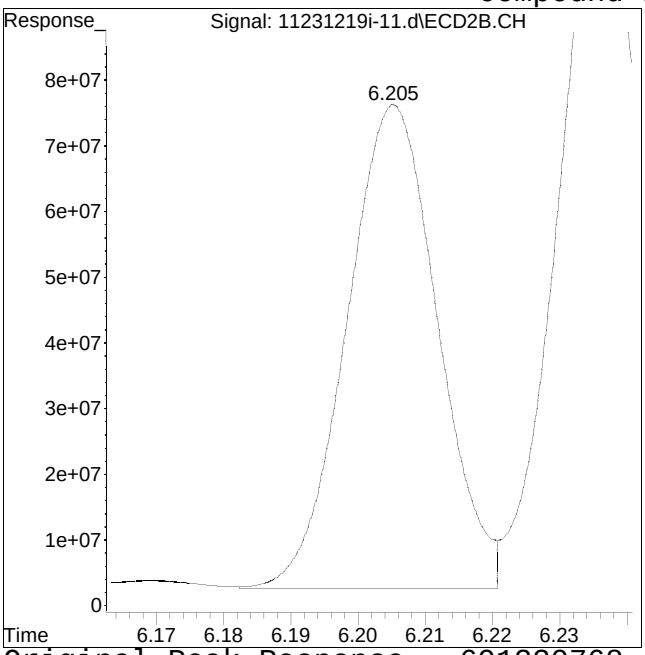


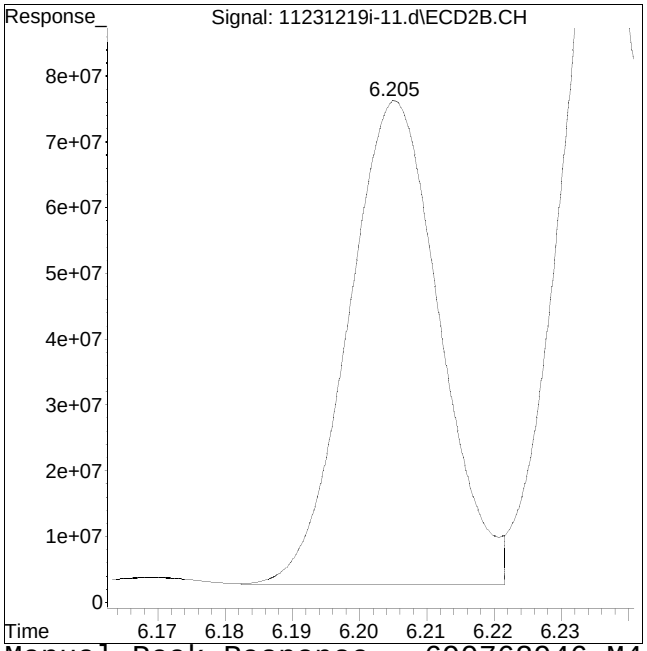
Original Peak Response = 641036081 Manual Peak Response = 637522639 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-11.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 3:23 pm Instrument : Pest 11
Sample : il10pest,42e,,pp 11398 L0.Quant Date : 12/20/2023 5:29 pm

Compound #62: Mirex #2



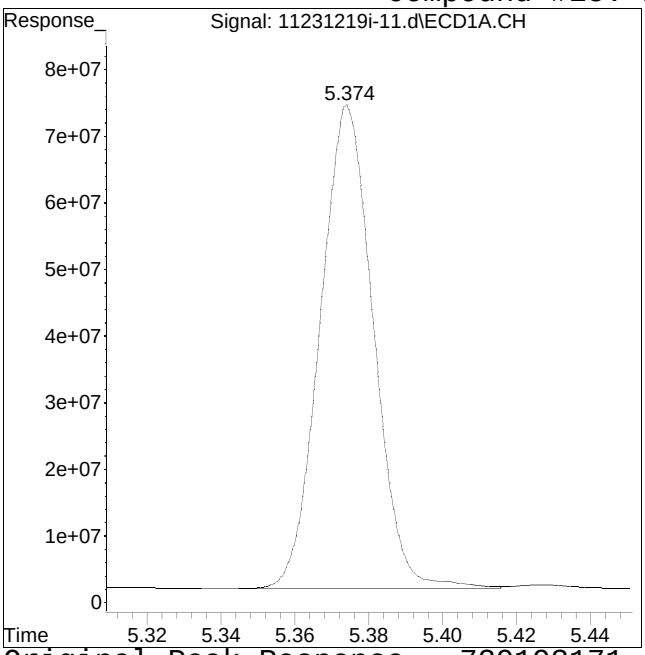


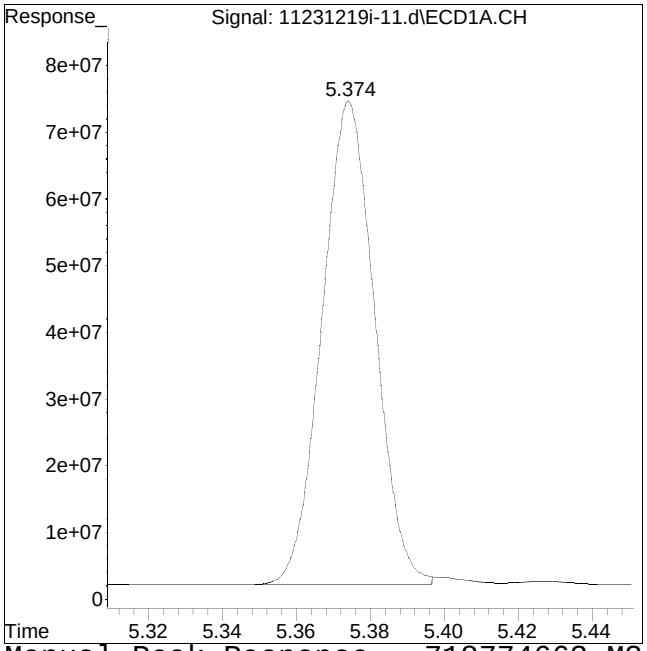
Original Peak Response = 691330768 Manual Peak Response = 690762946 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-11.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 3:23 pm Instrument : Pest 11
Sample : il10pest,42e,,pp 11398 L0.Quant Date : 12/20/2023 5:29 pm

Compound #25: Endosulfan Sulfate



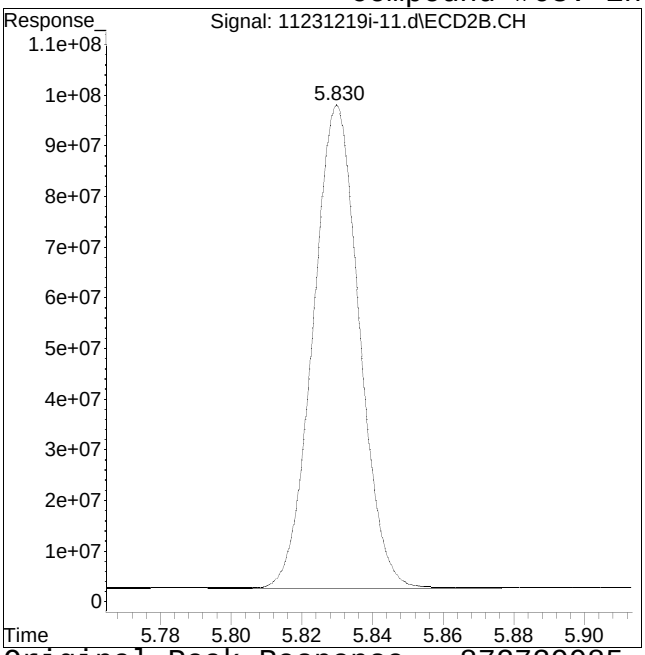


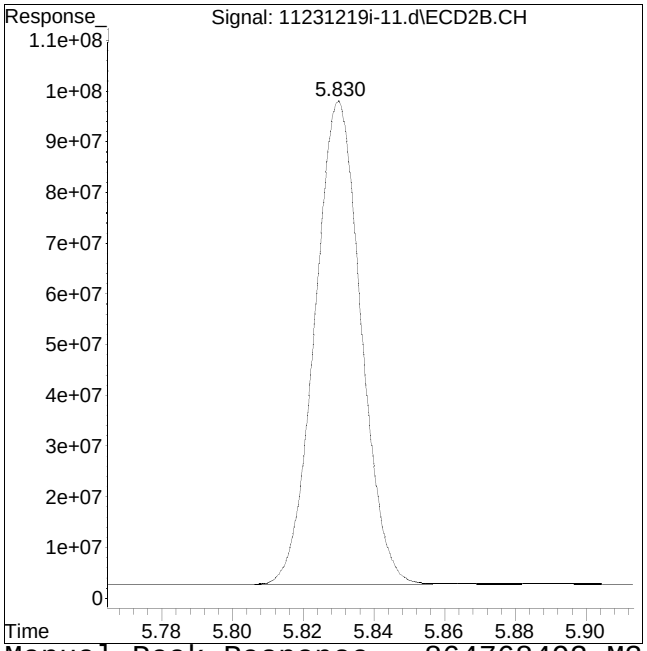
Original Peak Response = 729193171 Manual Peak Response = 718774663 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-11.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 3:23 pm Instrument : Pest 11
Sample : il10pest,42e,,pp 11398 L0.Quant Date : 12/20/2023 5:29 pm

Compound #63: Endosulfan Sulfate #2



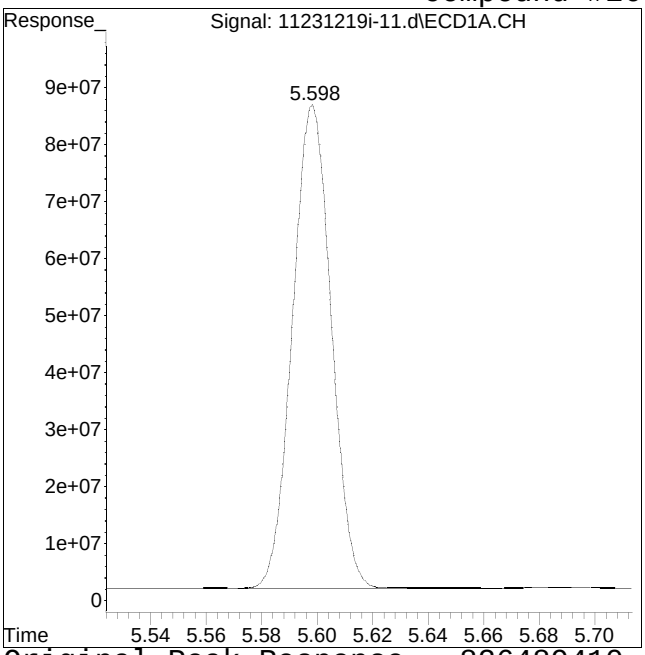


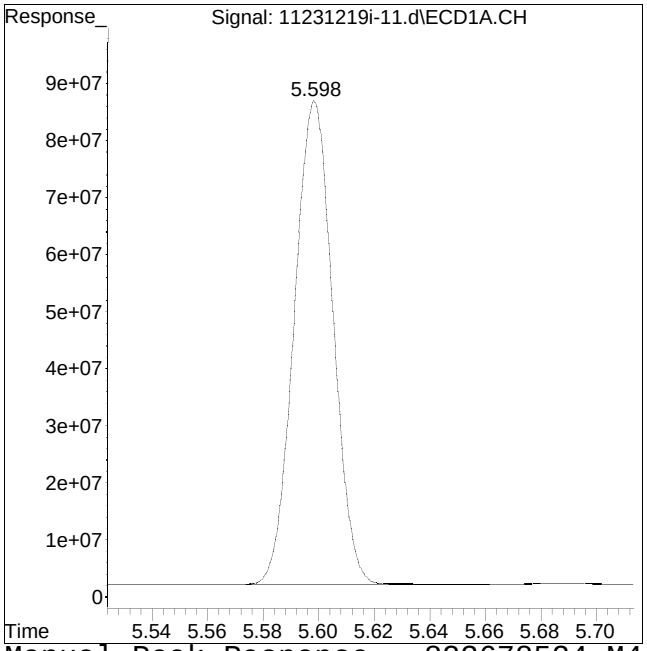
Original Peak Response = 872739985 Manual Peak Response = 864768493 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-11.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 3:23 pm Instrument : Pest 11
Sample : il10pest,42e,,pp 11398 L0.Quant Date : 12/20/2023 5:29 pm

Compound #26: Endrin Ketone



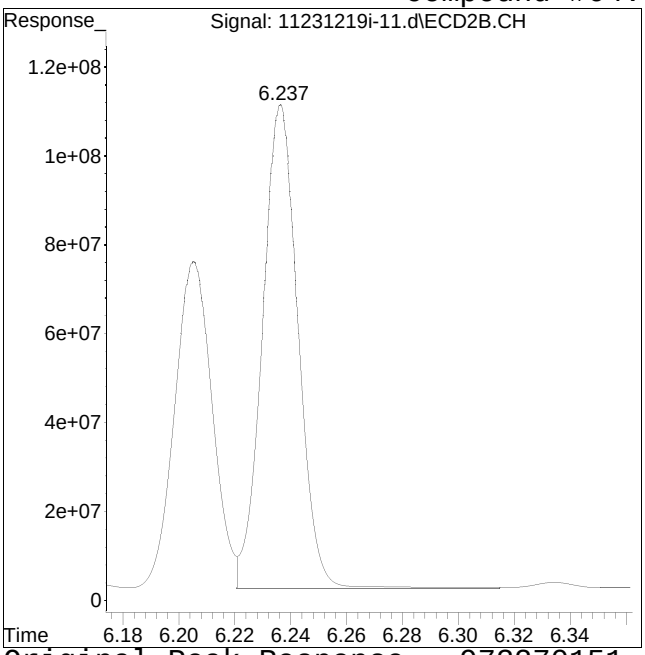


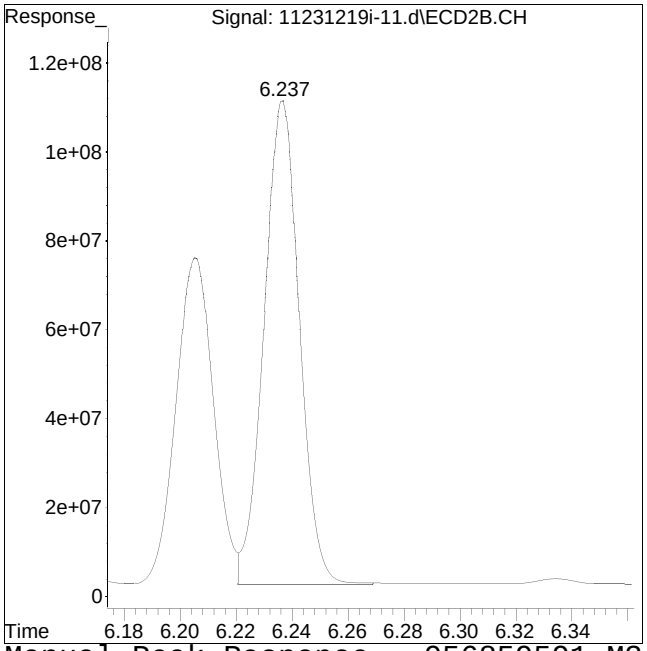
Original Peak Response = 826489410 Manual Peak Response = 823678524 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-11.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 3:23 pm Instrument : Pest 11
Sample : il10pest,42e,,pp 11398 L0.Quant Date : 12/20/2023 5:29 pm

Compound #64: Endrin Ketone #2



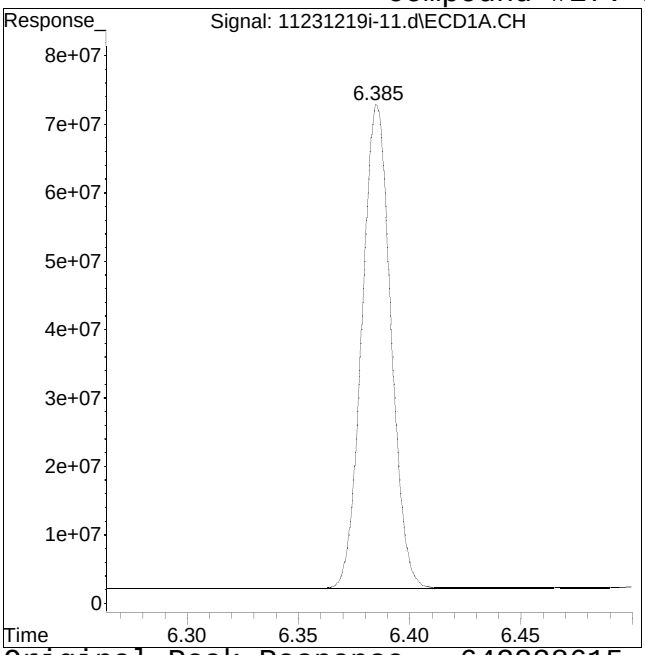


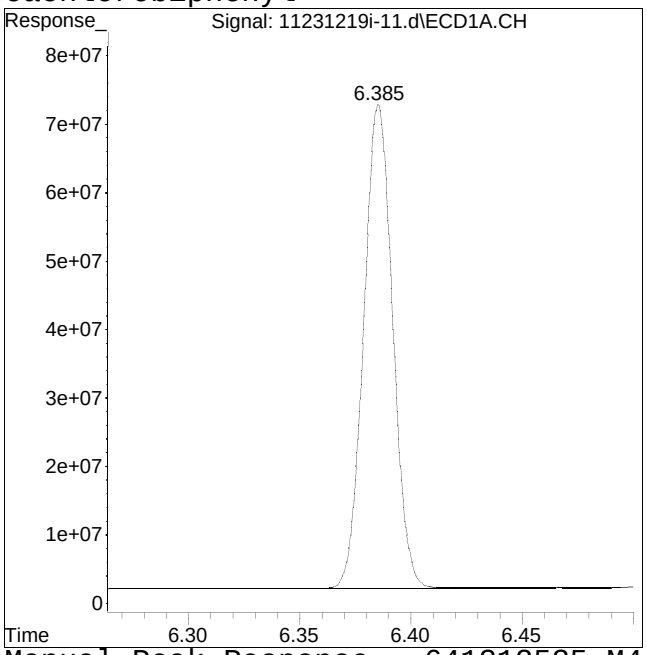
Original Peak Response = 973270151 Manual Peak Response = 956859591 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-11.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 3:23 pm Instrument : Pest 11
Sample : il10pest,42e,,pp 11398 L0.Quant Date : 12/20/2023 5:29 pm

Compound #27: Decachlorobiphenyl





Original Peak Response = 642228615 Manual Peak Response = 641312535 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2023\231219ICAL\
Data File : 11231219i-12.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 19 Dec 2023 3:35 pm
Operator : PEST11:ejl
Sample : il11pest,42e,,pp 11397 L0.4
Misc : WG1866910,ical (Sig #1); ical (Sig #2)
ALS Vial : 12 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 20 17:39:45 2023
Quant Method : I:\PEST\Pest11\2023\231219ICAL\pest11_12_19_23_ugL_ICAL.M
Quant Title : pest
QLast Update : Wed Dec 20 17:34:41 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	1.377	1.482	90532938	119.7E6	25.000M3	25.000M4
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.730	1.987	1317.6E6	1783.0E6	386.857M3	394.634
	Spiked Amount 50.000	Range 30 - 150		Recovery =		773.71%#	789.27%#
27) s	Decachlorobi	6.386	7.081	1241.4E6	1442.2E6	373.229M4	390.695
	Spiked Amount 50.000	Range 30 - 150		Recovery =		746.46%#	781.39%#
	Target Compounds						
3) t	Hexachlorobe	1.951	2.328	1455.5E6	1936.7E6	387.105M3	397.851
4) t	alpha-BHC	2.053	2.429	2150.9E6	2896.7E6	404.834M4	417.915M4
5) t	gamma-BHC (l	2.262	2.732	1972.6E6	2601.5E6	401.844M3	414.256M4
6) t	beta-BHC	2.319	2.799	814.1E6	1059.8E6	395.292M4	400.077M3
7) t	delta-BHC	2.452	3.081	2062.6E6	2687.3E6	409.086M4	421.229M4
8) t	Heptachlor	2.621	3.152	1819.6E6	2446.0E6	382.037M4	396.016M4
9) t	Aldrin	2.871	3.488	1771.6E6	2358.1E6	395.238M4	407.162M4
10) t	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11) t	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12) t	Heptachlor E	3.432	4.130	1636.0E6	2190.2E6	385.136	401.780
13) t	gamma-Chlord	3.558	4.348	1567.2E6	2032.9E6	405.306M3	413.625M4
14) t	alpha-Chlord	3.696	4.507	1757.7E6	2219.9E6	400.767M4	409.879M4

Data Path : I:\PEST\Pest11\2023\231219ICAL\
Data File : 11231219i-12.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 19 Dec 2023 3:35 pm
Operator : PEST11:ejl
Sample : il11pest,42e,,pp 11397 L0.4
Misc : WG1866910,ical (Sig #1); ical (Sig #2)
ALS Vial : 12 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 20 17:39:45 2023
Quant Method : I:\PEST\Pest11\2023\231219ICAL\pest11_12_19_23_ugL_ICAL.M
Quant Title : pest
QLast Update : Wed Dec 20 17:34:41 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
15) t	4,4'-DDE	3.794	4.688	1756.6E6	2213.0E6	408.107	414.179M4
16) t	Endosulfan I	3.837	4.566	1575.2E6	2016.6E6	388.287M4	401.283M4
17) t	Dieldrin	4.102	4.843	1704.9E6	2151.3E6	400.859M4	412.447M4
18) t	Endrin	4.354	5.130	1730.5E6	2167.5E6	394.357	412.243M4
19) t	4,4'-DDD	4.455	5.239	1443.2E6	1794.6E6	410.558M4	426.981M4
20) t	Endosulfan I	4.585	5.321	1449.9E6	1774.1E6	373.892M4	391.898M3
21) t	4,4'-DDT	4.739	5.509	1642.8E6	1986.7E6	402.810M4	417.108M3
22) t	Endrin Aldeh	4.991	5.607	1257.1E6	1556.5E6	388.699M4	408.996M4
23) t	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
24) t	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25) t	Endosulfan S	5.375	5.830	1418.2E6	1763.6E6	386.638M3	410.538M4
26) t	Endrin Keton	5.599	6.237	1599.0E6	1943.5E6	377.177M4	409.202M3
29) l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2023\231219ICAL\
Data File : 11231219i-12.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 19 Dec 2023 3:35 pm
Operator : PEST11:ejl
Sample : il11pest,42e,,pp 11397 L0.4
Misc : WG1866910,ical (Sig #1); ical (Sig #2)
ALS Vial : 12 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 20 17:39:45 2023
Quant Method : I:\PEST\Pest11\2023\231219ICAL\pest11_12_19_23_ugL_ICAL.M
Quant Title : pest
QLast Update : Wed Dec 20 17:34:41 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
SemiQuant Compounds - Not Calibrated on this Instrument						
Sum toxaphene-2			0	0	N.D.	N.D.
Average toxaphene-2					0.000	0.000

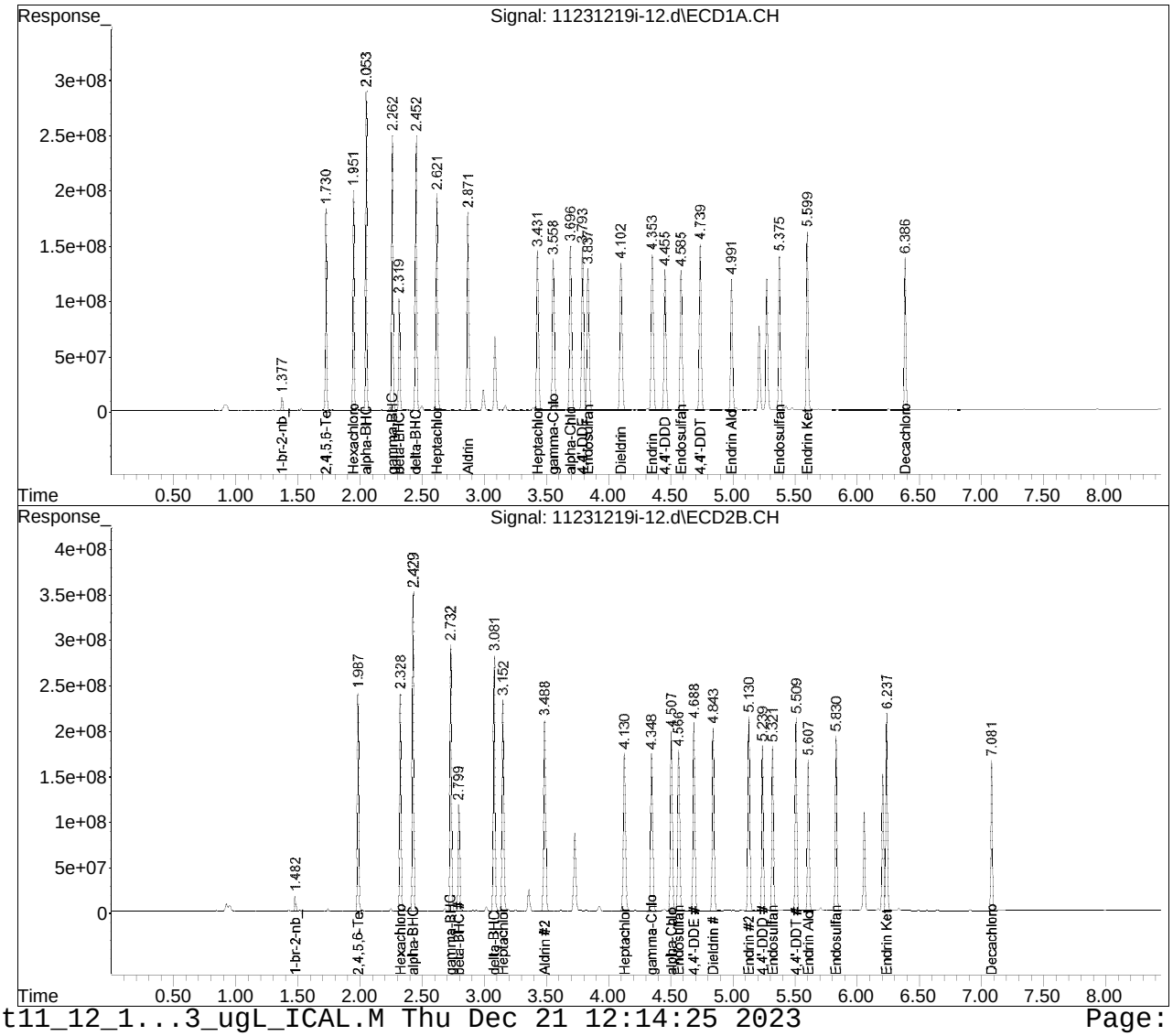
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest11\2023\231219ICAL\
Data File : 11231219i-12.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 19 Dec 2023 3:35 pm
Operator : PEST11:ejl
Sample : il11pest,42e,,pp 11397 L0.4
Misc : WG1866910,ical (Sig #1); ical (Sig #2)
ALS Vial : 12 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 20 17:39:45 2023
Quant Method : I:\PEST\Pest11\2023\231219ICAL\pest11_12_19_23_ugL_ICAL.M
Quant Title : pest
QLast Update : Wed Dec 20 17:34:41 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

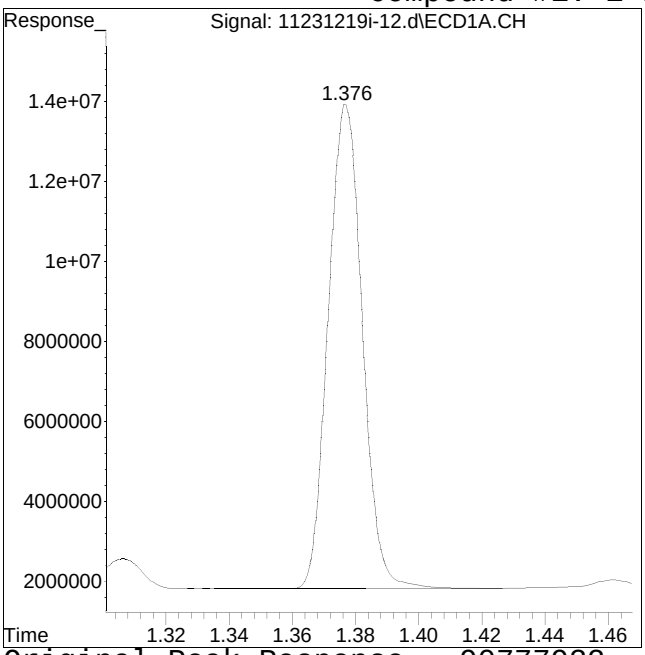
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

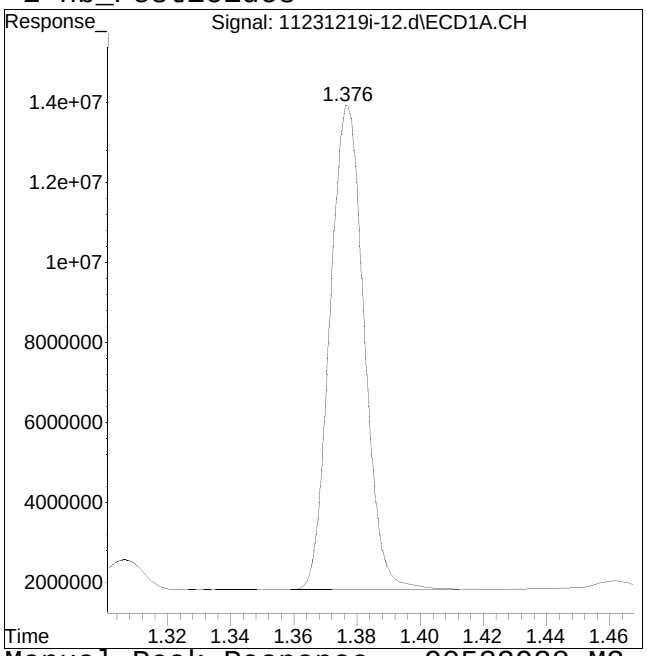


Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-12.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 3:35 pm Instrument : Pest 11
Sample : il11pest,42e,,pp 11397 L0.Quant Date : 12/20/2023 5:34 pm

Compound #1: 1-br-2-nb_Pesticides



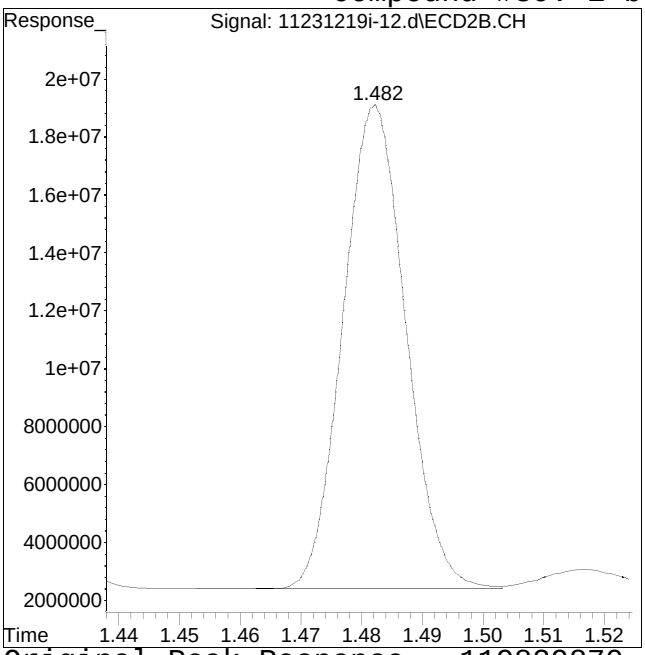


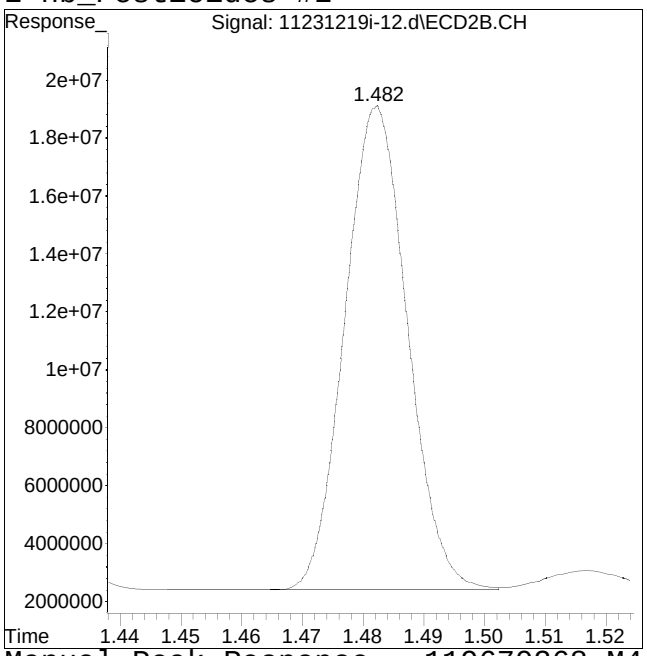
Original Peak Response = 90777932 Manual Peak Response = 90532938 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-12.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 3:35 pm Instrument : Pest 11
Sample : il11pest,42e,,pp 11397 L0.Quant Date : 12/20/2023 5:34 pm

Compound #39: 1-br-2-nb_Pesticides #2



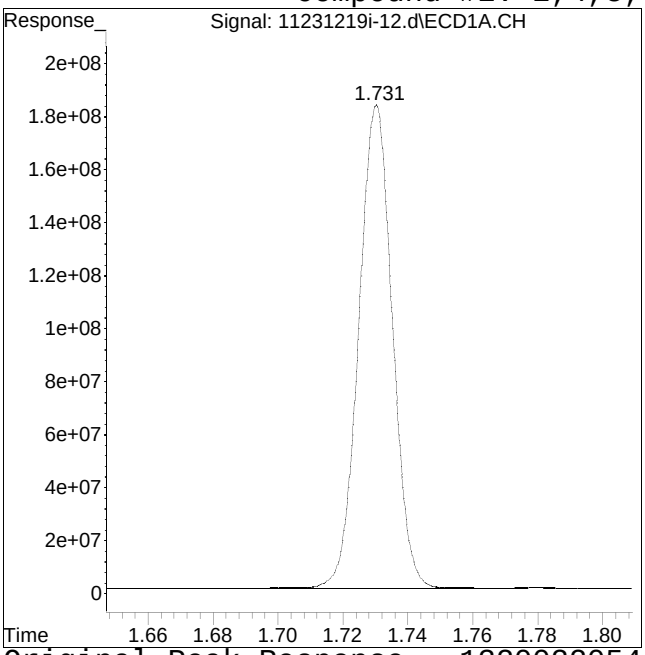


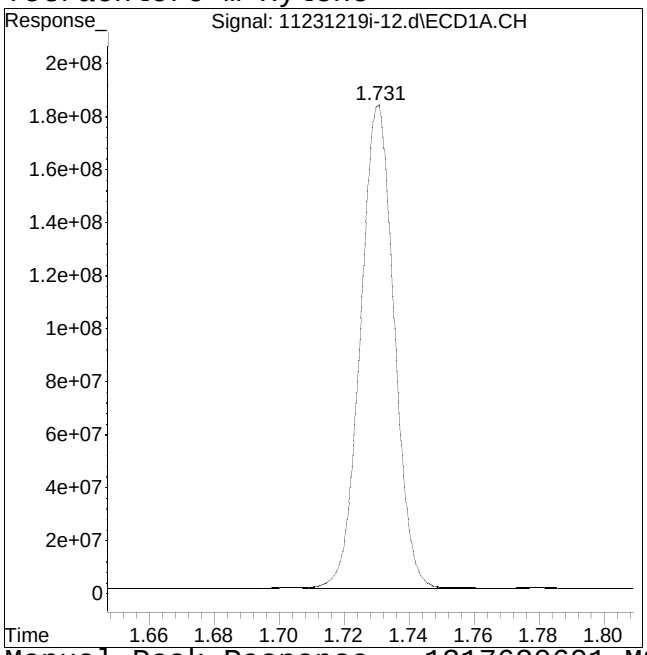
Original Peak Response = 119829870 Manual Peak Response = 119670268 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-12.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 3:35 pm Instrument : Pest 11
Sample : il11pest,42e,,pp 11397 L0.Quant Date : 12/20/2023 5:34 pm

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



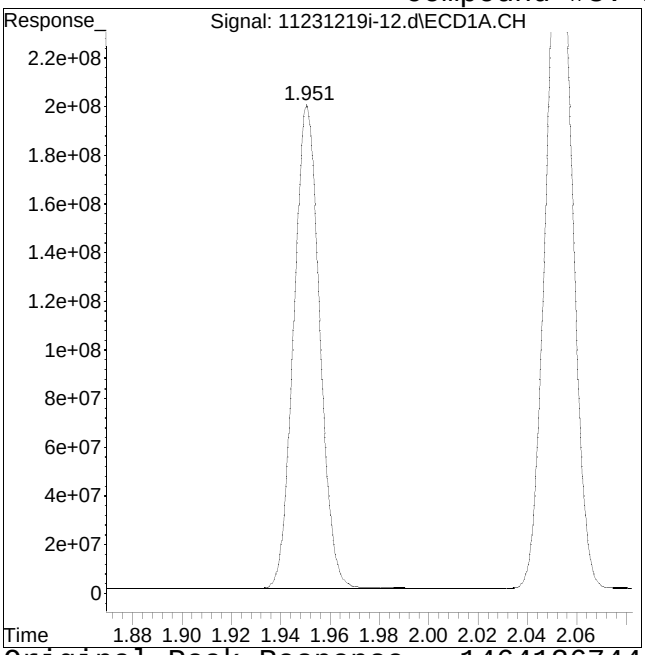


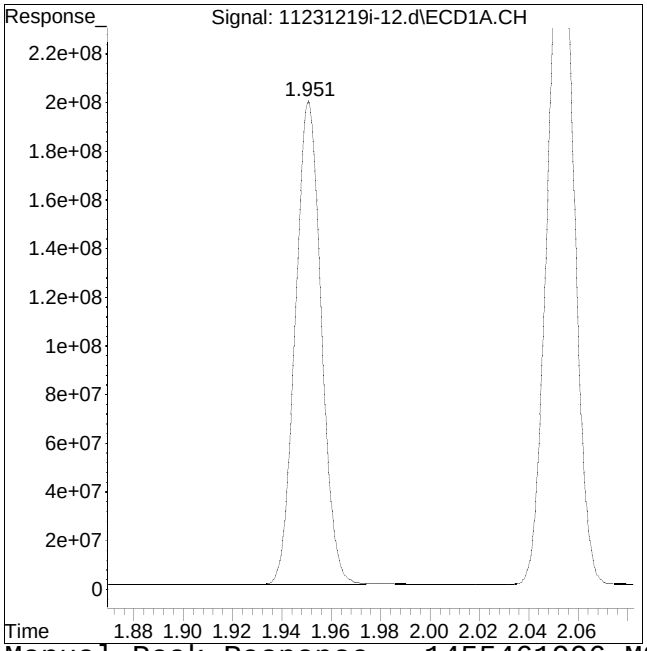
Original Peak Response = 1320022054 Manual Peak Response = 1317620601 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-12.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 3:35 pm Instrument : Pest 11
Sample : il11pest,42e,,pp 11397 L0.Quant Date : 12/20/2023 5:34 pm

Compound #3: Hexachlorobenzene



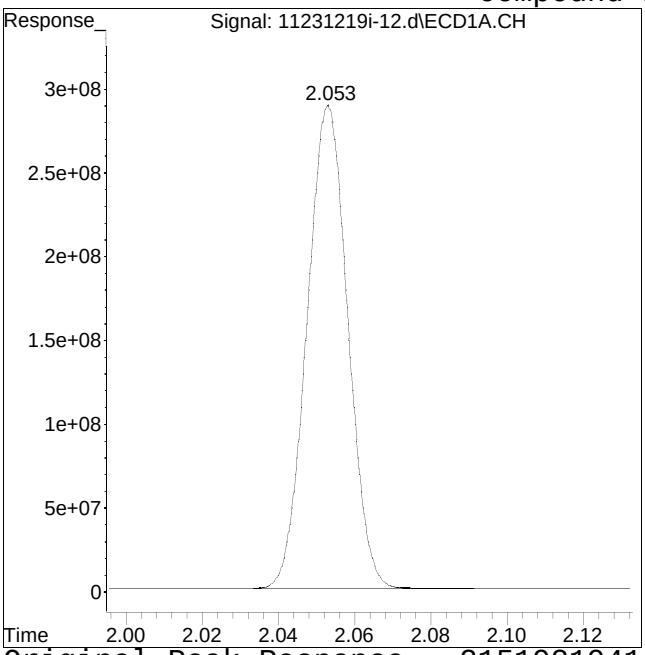


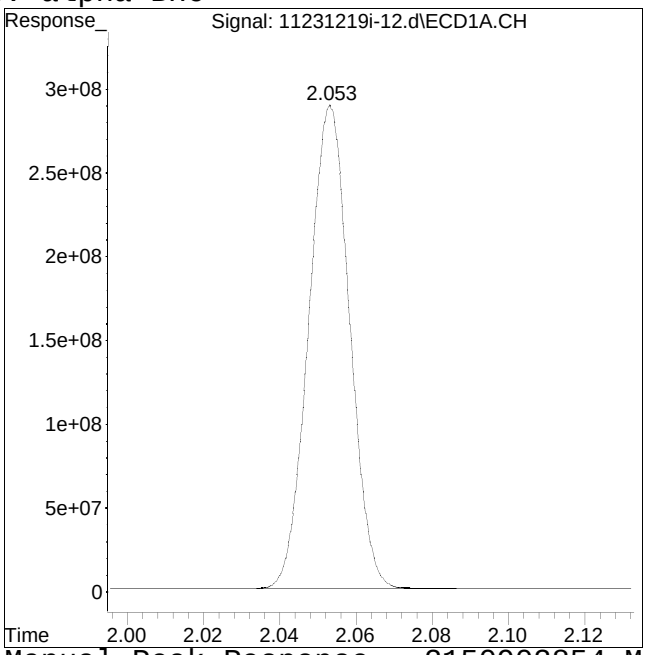
Original Peak Response = 1464126744 Manual Peak Response = 1455461906 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-12.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 3:35 pm Instrument : Pest 11
Sample : il11pest,42e,,pp 11397 L0.Quant Date : 12/20/2023 5:34 pm

Compound #4: alpha-BHC



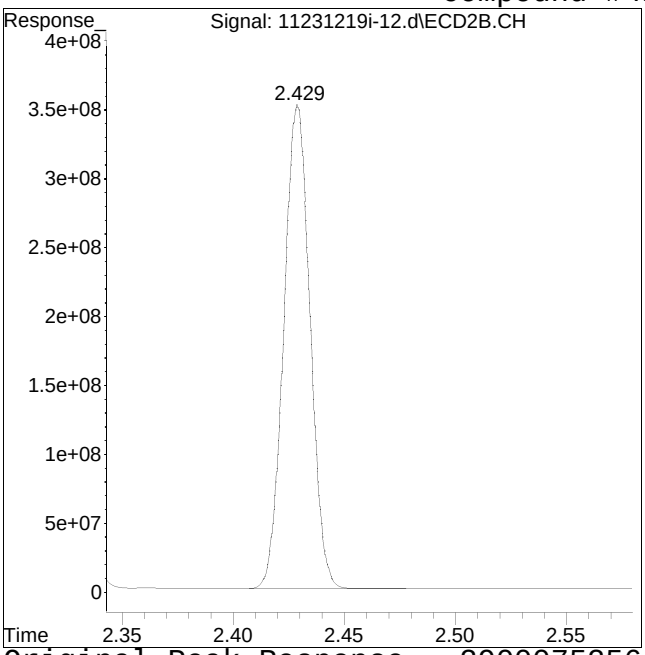


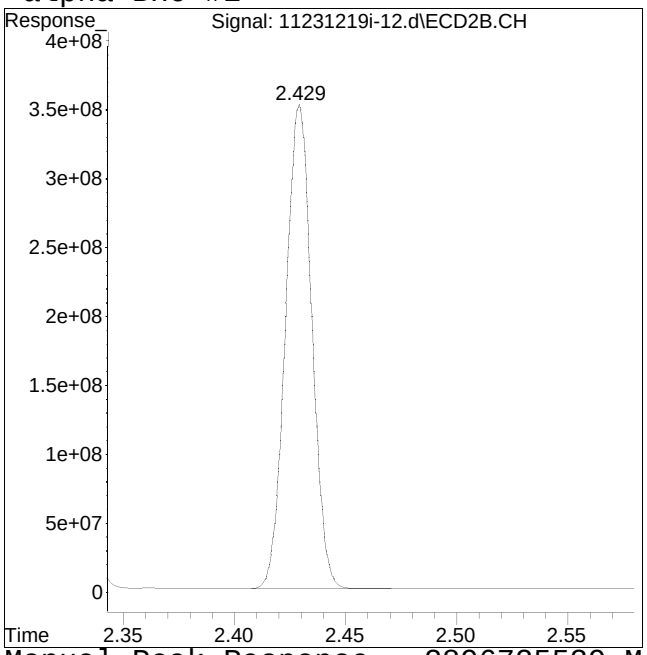
Original Peak Response = 2151921941 Manual Peak Response = 2150903854 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-12.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 3:35 pm Instrument : Pest 11
Sample : il11pest,42e,,pp 11397 L0.Quant Date : 12/20/2023 5:34 pm

Compound #42: alpha-BHC #2



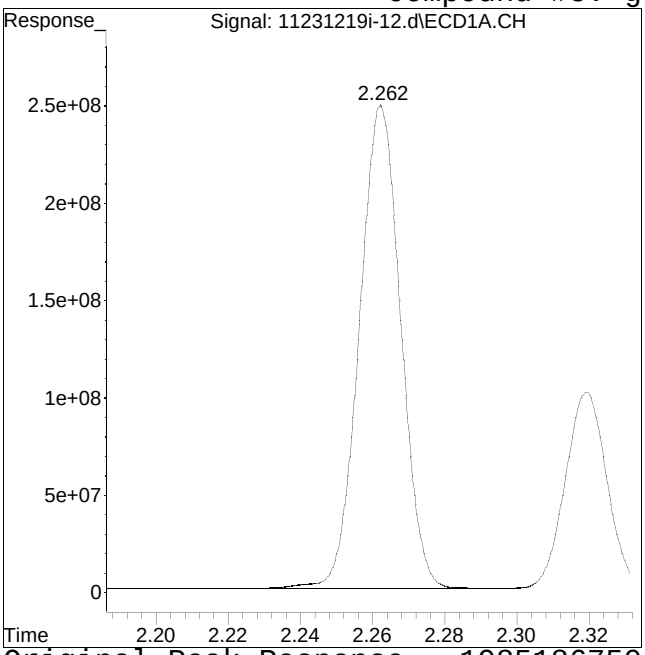


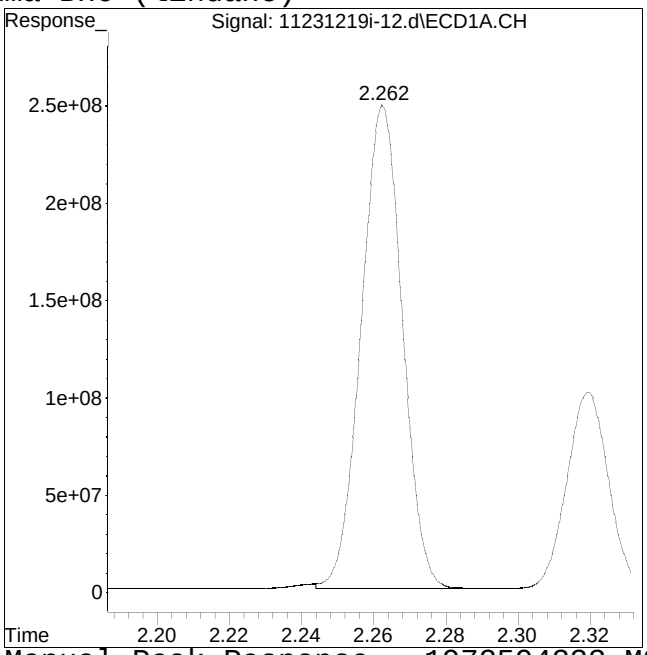
Original Peak Response = 2900075256 Manual Peak Response = 2896725539 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-12.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 3:35 pm Instrument : Pest 11
Sample : il11pest,42e,,pp 11397 L0.Quant Date : 12/20/2023 5:34 pm

Compound #5: gamma-BHC (lindane)



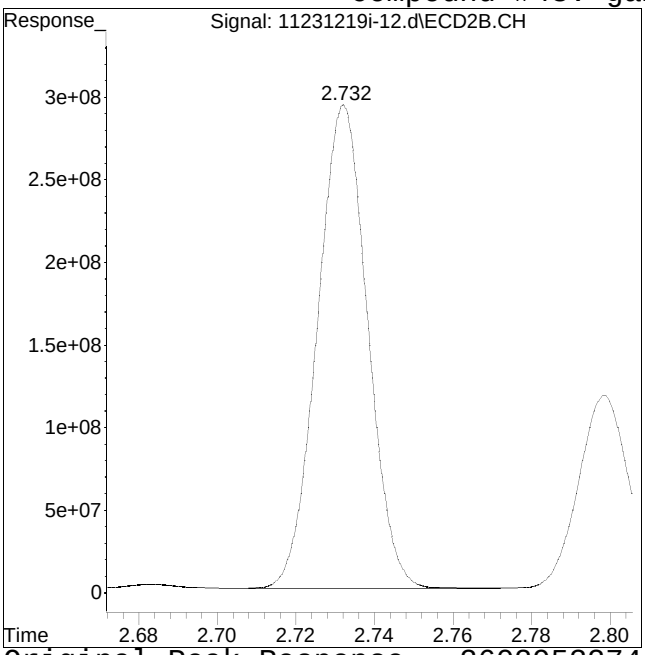


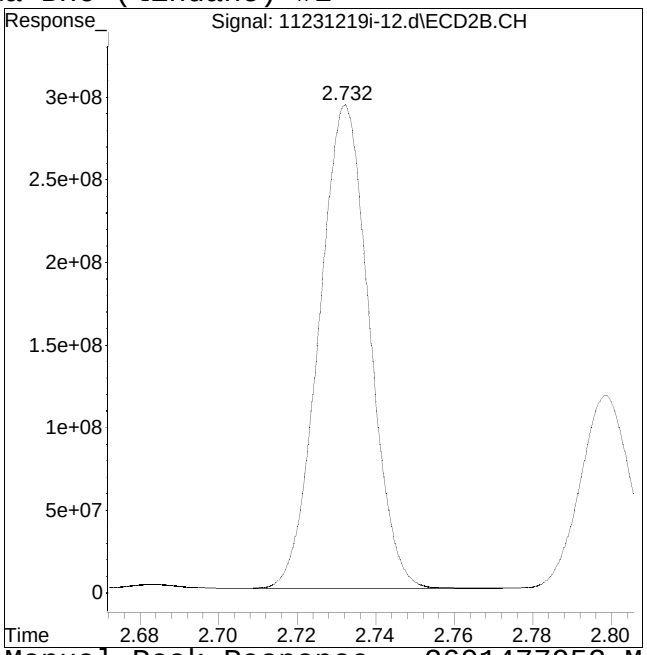
Original Peak Response = 1985186750 Manual Peak Response = 1972594233 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-12.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 3:35 pm Instrument : Pest 11
Sample : il11pest,42e,,pp 11397 L0.Quant Date : 12/20/2023 5:34 pm

Compound #43: gamma-BHC (lindane) #2



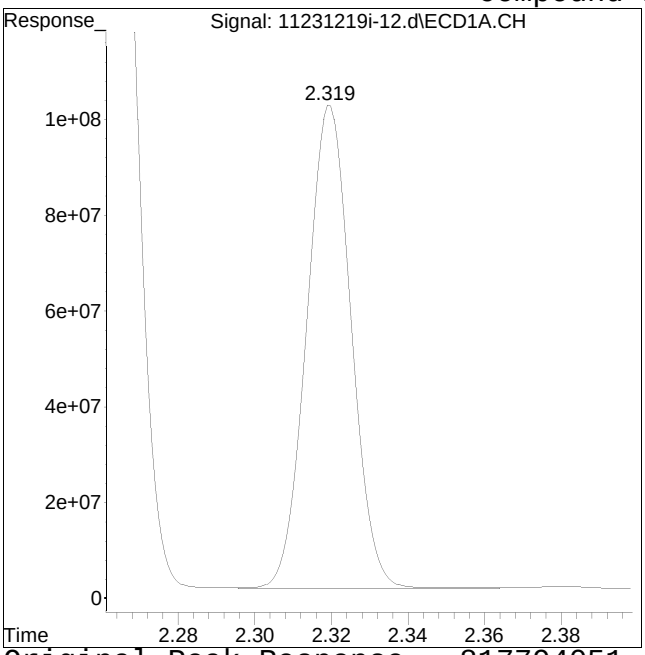


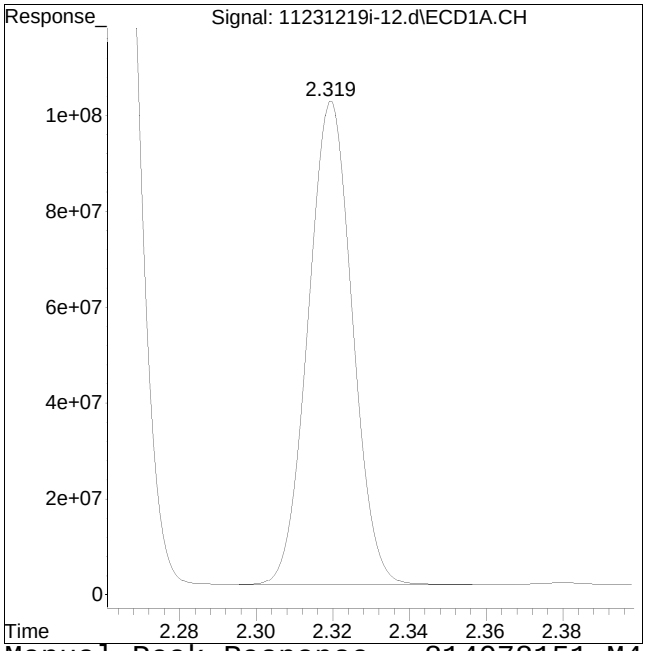
Original Peak Response = 2602953274 Manual Peak Response = 2601477952 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-12.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 3:35 pm Instrument : Pest 11
Sample : il11pest,42e,,pp 11397 L0.Quant Date : 12/20/2023 5:34 pm

Compound #6: beta-BHC



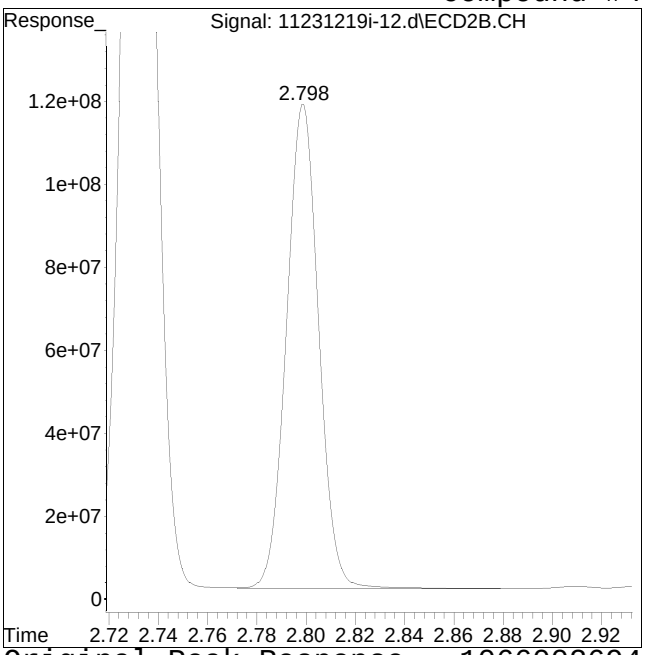


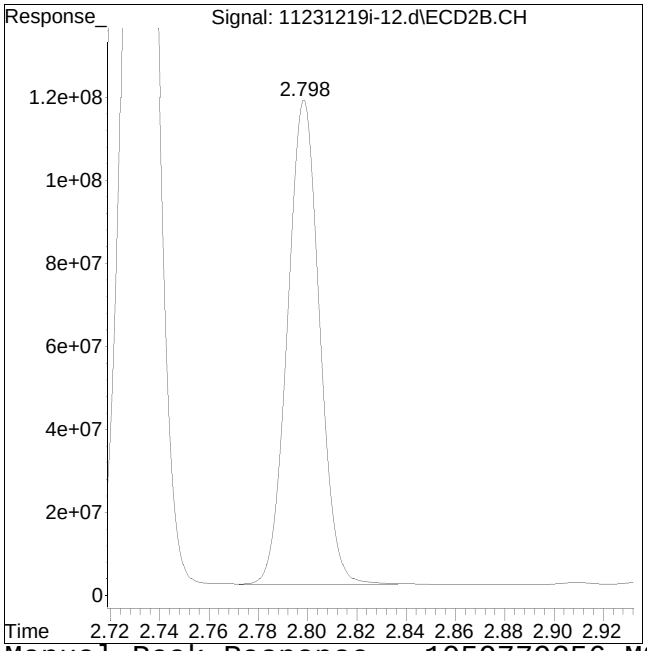
Original Peak Response = 817794051 Manual Peak Response = 814078151 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-12.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 3:35 pm Instrument : Pest 11
Sample : il11pest,42e,,pp 11397 L0.Quant Date : 12/20/2023 5:34 pm

Compound #44: beta-BHC #2



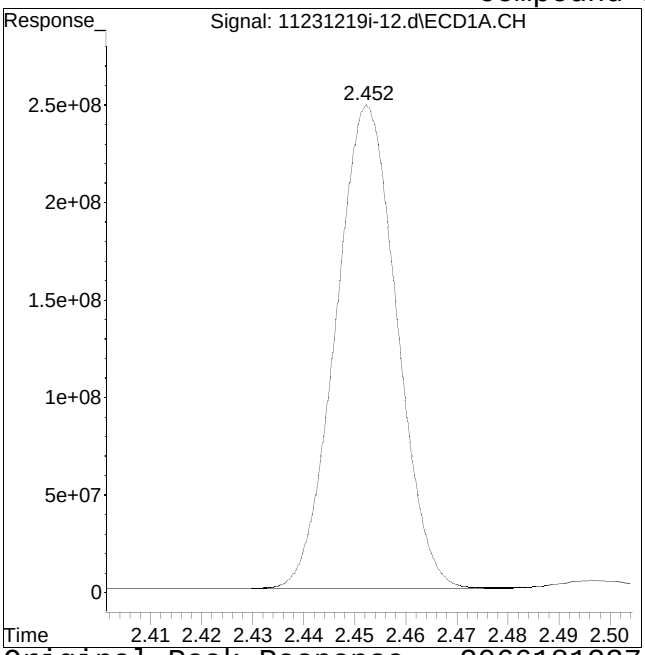


Original Peak Response = 1066002694 Manual Peak Response = 1059779356 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

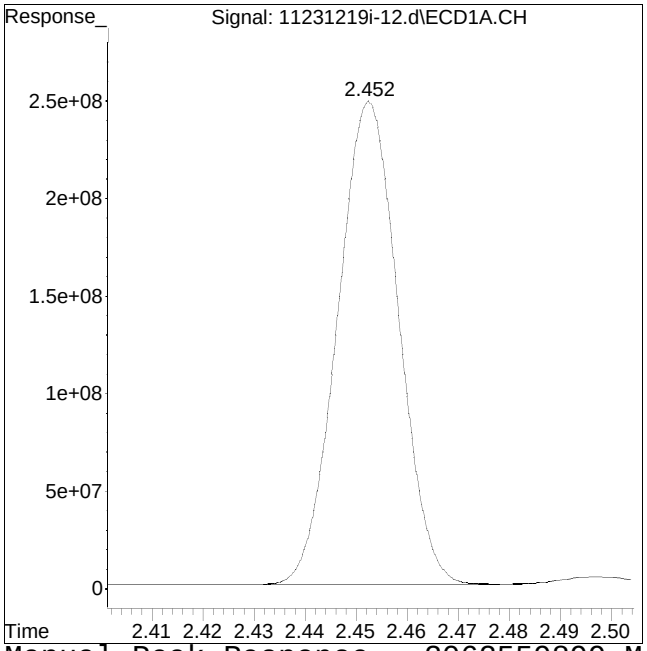
Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-12.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 3:35 pm Instrument : Pest 11
Sample : il11pest,42e,,pp 11397 L0.Quant Date : 12/20/2023 5:34 pm

Compound #7: delta-BHC



Original Peak Response = 2066181237

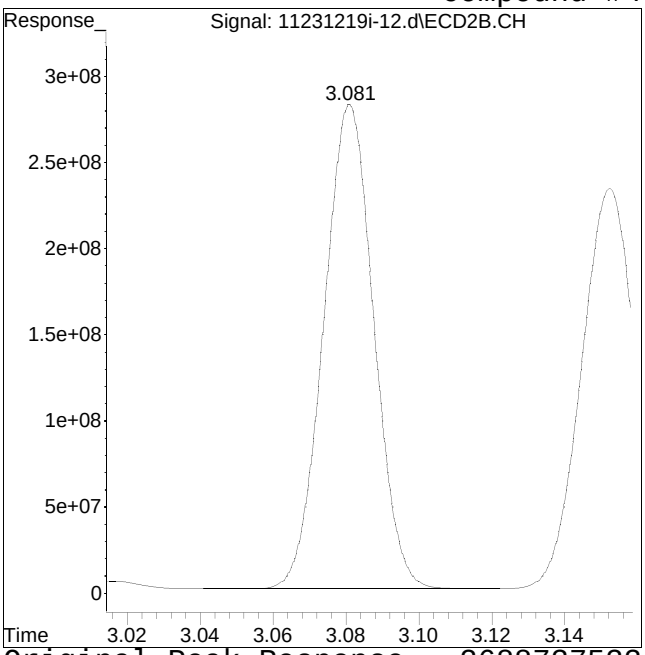


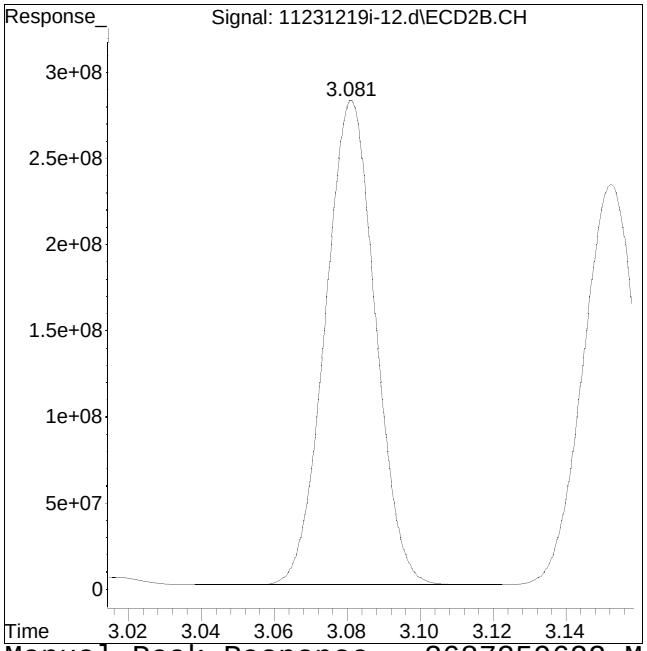
Manual Peak Response = 2062559899 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-12.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 3:35 pm Instrument : Pest 11
Sample : il11pest,42e,,pp 11397 L0.Quant Date : 12/20/2023 5:34 pm

Compound #45: delta-BHC #2



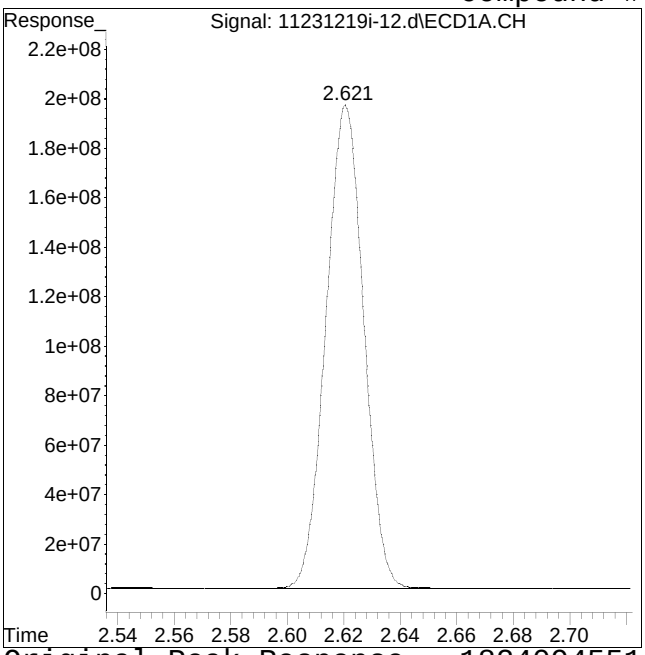


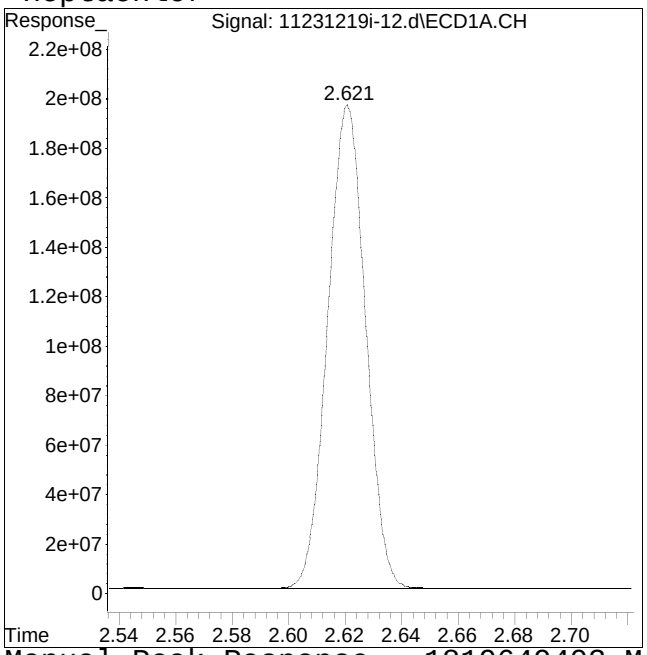
Original Peak Response = 2688737533 Manual Peak Response = 2687259622 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-12.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 3:35 pm Instrument : Pest 11
Sample : il11pest,42e,,pp 11397 L0.Quant Date : 12/20/2023 5:34 pm

Compound #8: Heptachlor



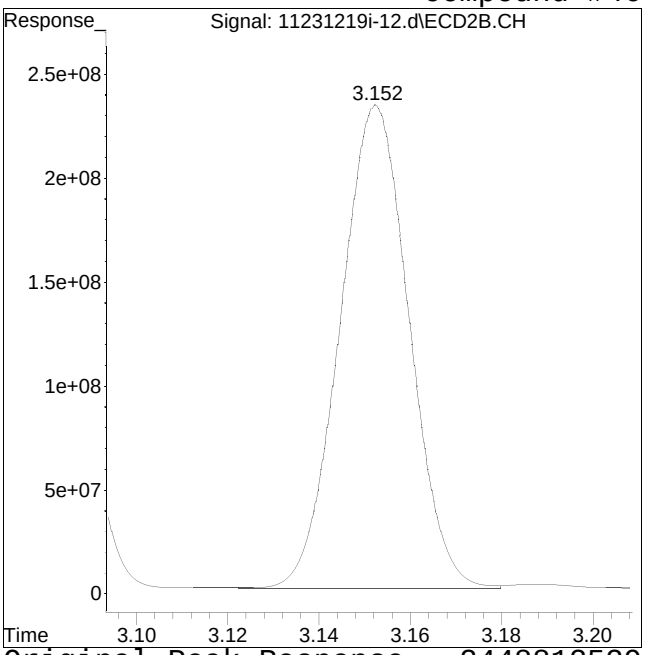


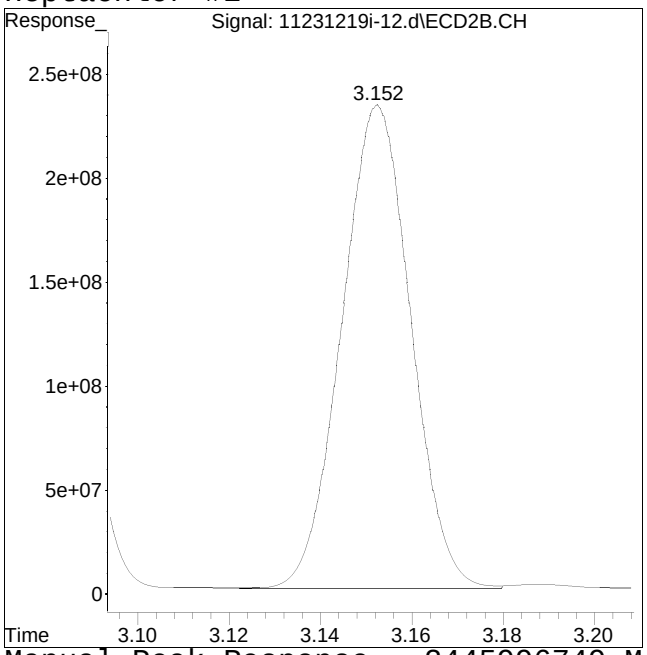
Original Peak Response = 1824094551 Manual Peak Response = 1819649403 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-12.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 3:35 pm Instrument : Pest 11
Sample : il11pest,42e,,pp 11397 L0.Quant Date : 12/20/2023 5:34 pm

Compound #46: Heptachlor #2



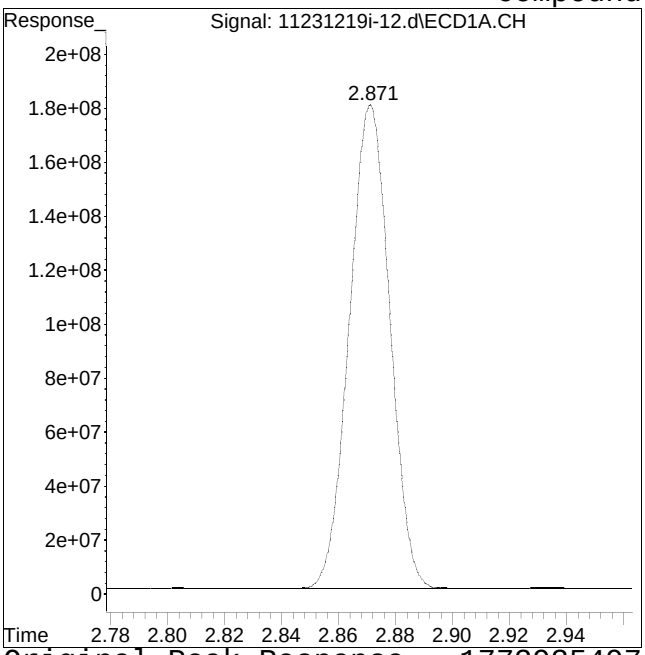


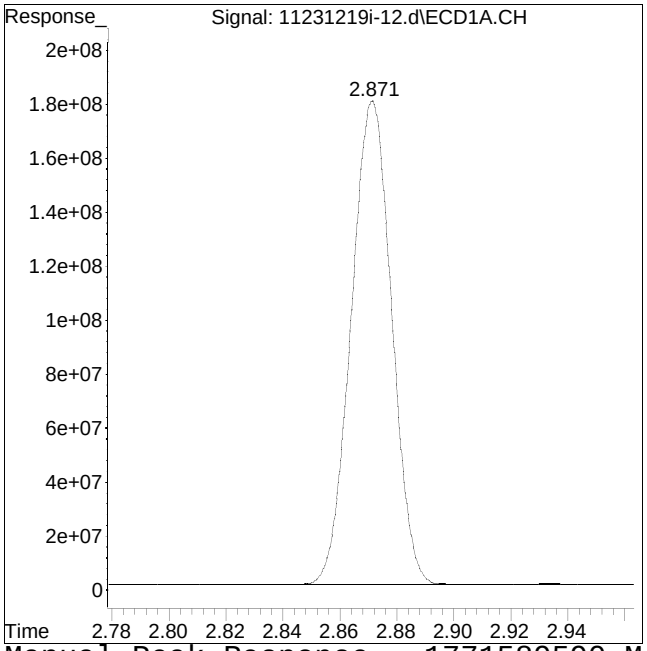
Original Peak Response = 2448812529 Manual Peak Response = 2445996749 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-12.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 3:35 pm Instrument : Pest 11
Sample : il11pest,42e,,pp 11397 L0.Quant Date : 12/20/2023 5:34 pm

Compound #9: Aldrin



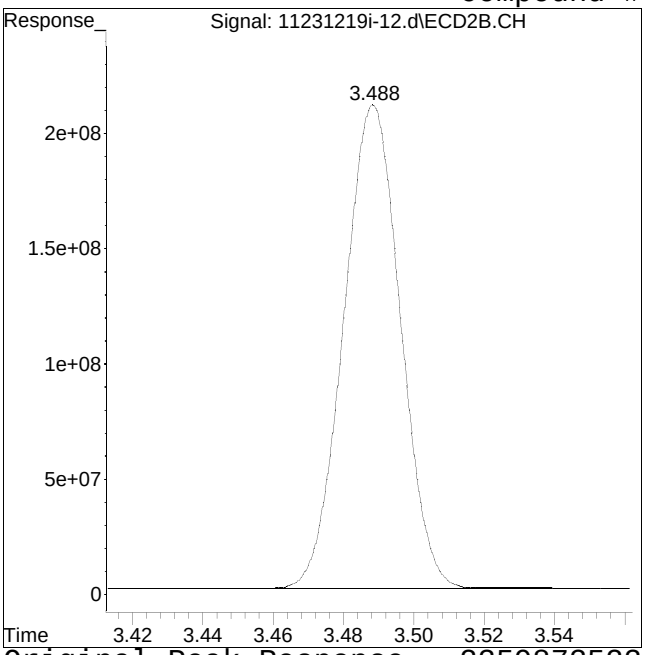


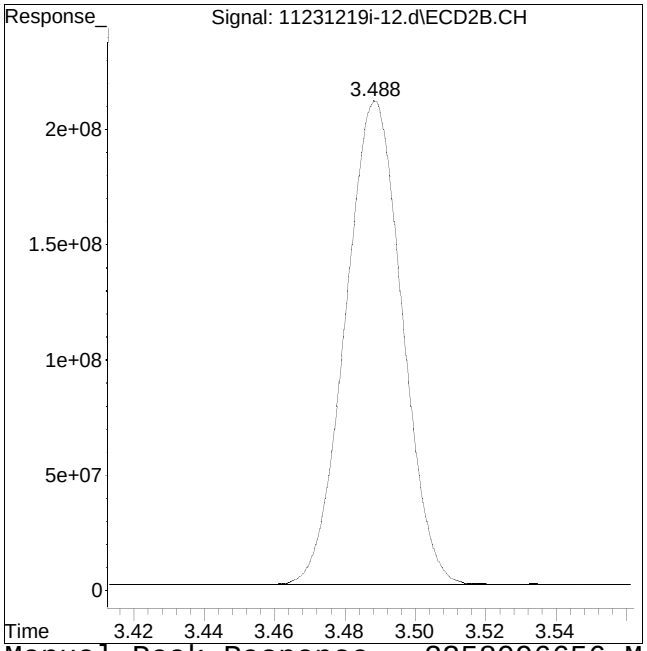
Original Peak Response = 1773935497 Manual Peak Response = 1771589590 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-12.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 3:35 pm Instrument : Pest 11
Sample : il11pest,42e,,pp 11397 L0.Quant Date : 12/20/2023 5:34 pm

Compound #47: Aldrin #2



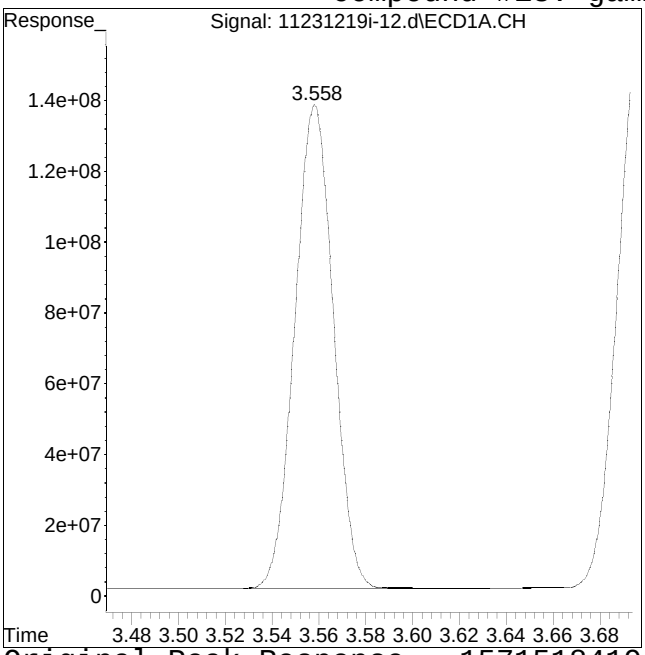


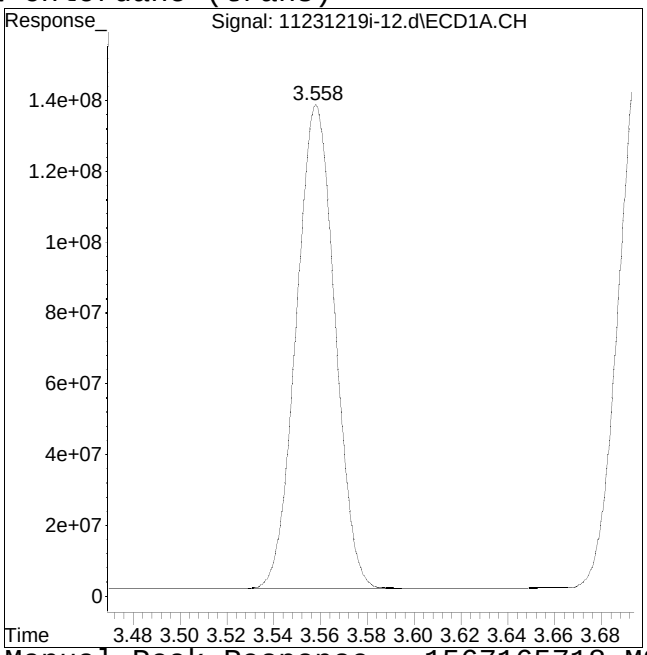
Original Peak Response = 2359873523 Manual Peak Response = 2358096656 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-12.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 3:35 pm Instrument : Pest 11
Sample : il11pest,42e,,pp 11397 L0.Quant Date : 12/20/2023 5:34 pm

Compound #13: gamma-Chlordane (trans)



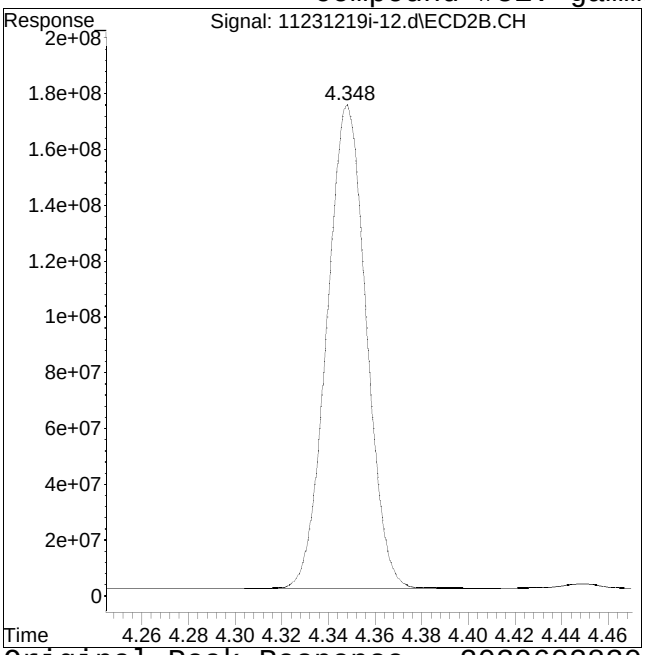


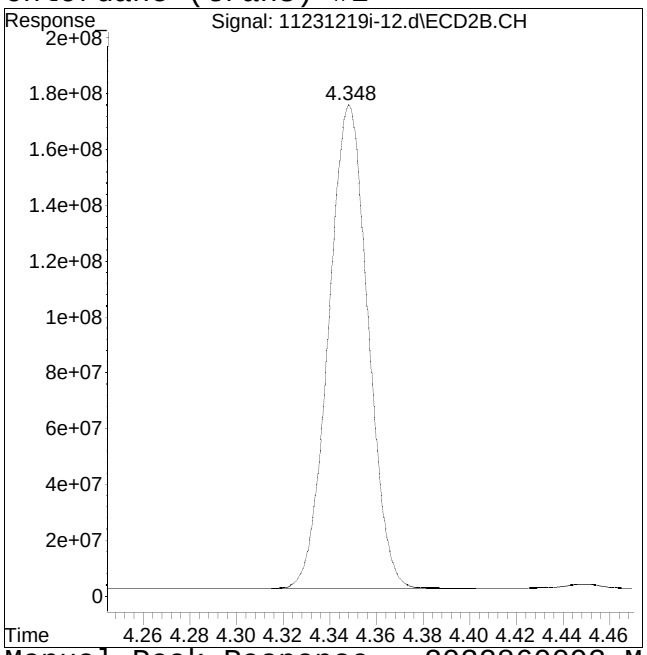
Original Peak Response = 1571518419 Manual Peak Response = 1567165718 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-12.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 3:35 pm Instrument : Pest 11
Sample : il11pest,42e,,pp 11397 L0.Quant Date : 12/20/2023 5:34 pm

Compound #51: gamma-Chlordane (trans) #2



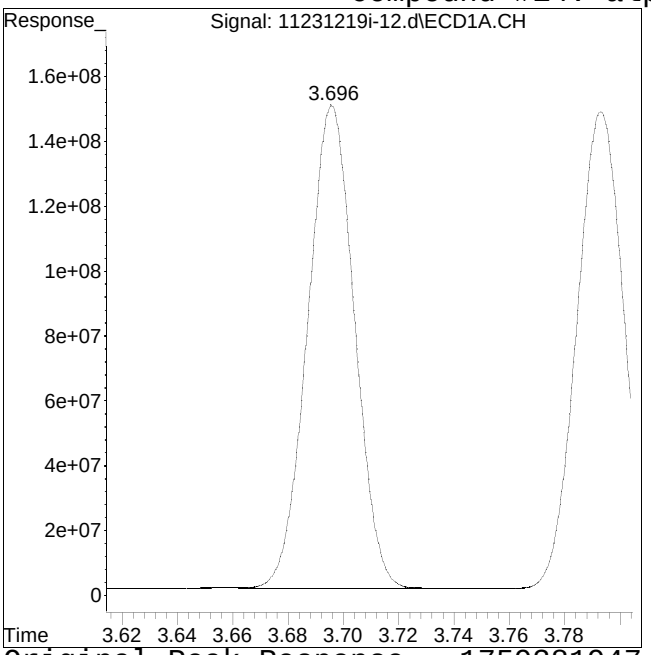


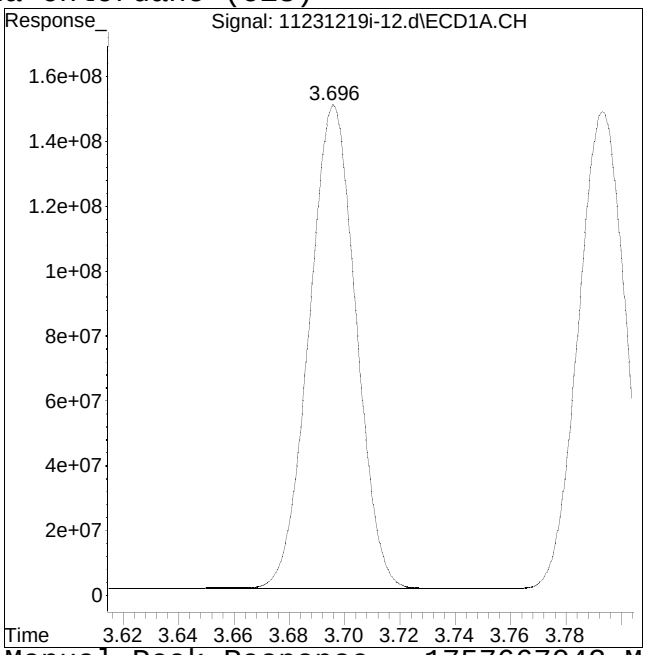
Original Peak Response = 2039603830 Manual Peak Response = 2032860093 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-12.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 3:35 pm Instrument : Pest 11
Sample : il11pest,42e,,pp 11397 L0.Quant Date : 12/20/2023 5:34 pm

Compound #14: alpha-Chlordane (cis)



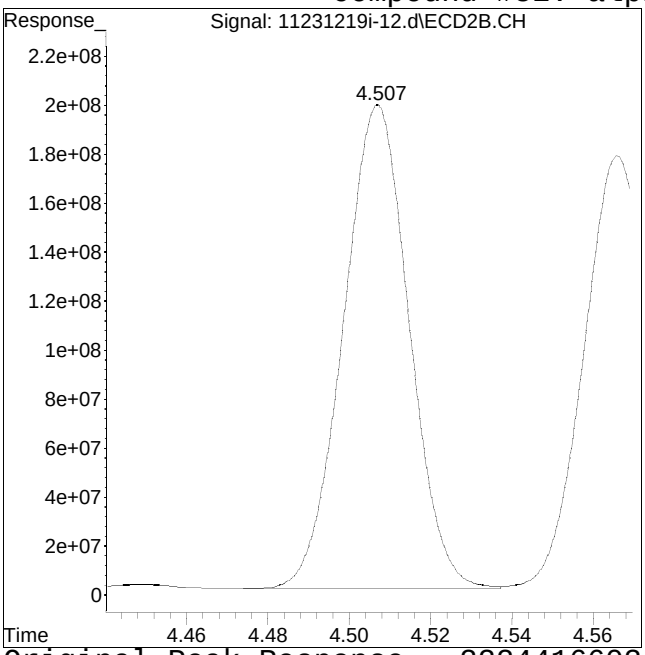


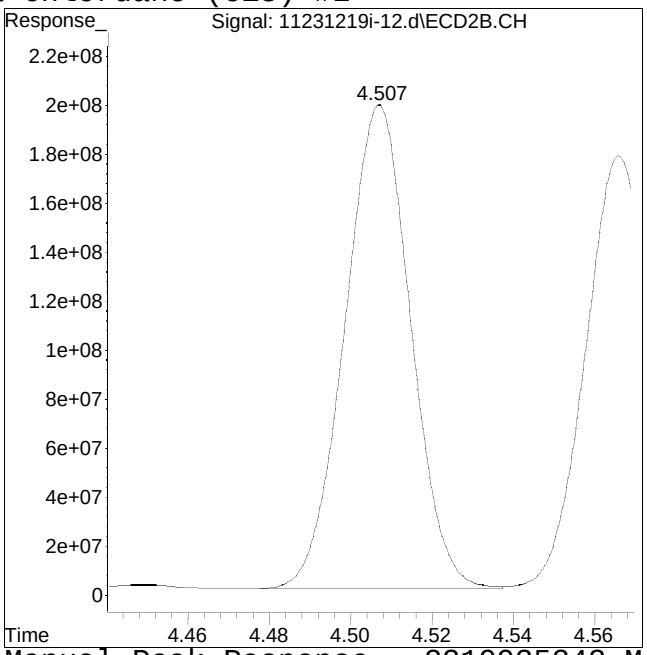
Original Peak Response = 1759381947 Manual Peak Response = 1757667042 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-12.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 3:35 pm Instrument : Pest 11
Sample : il11pest,42e,,pp 11397 L0.Quant Date : 12/20/2023 5:34 pm

Compound #52: alpha-Chlordane (cis) #2



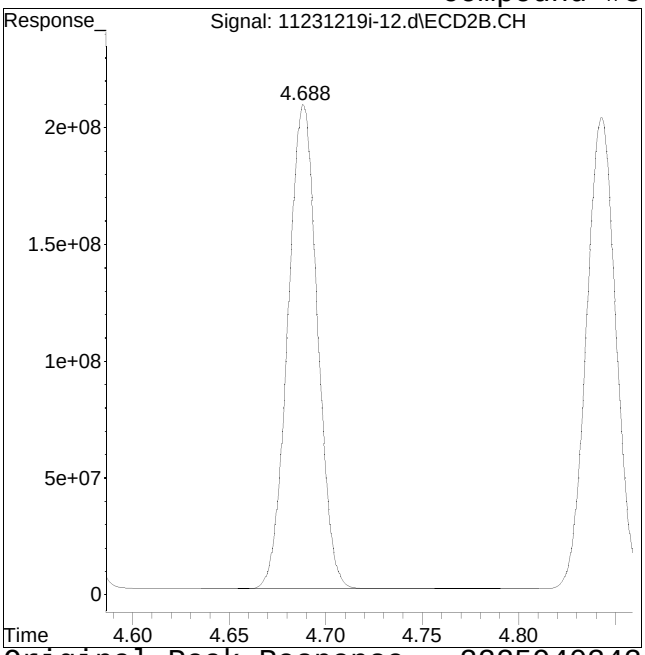


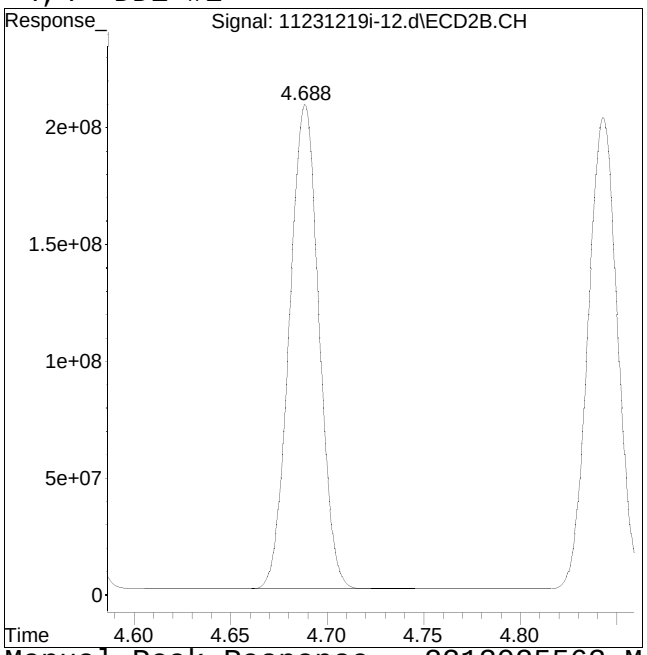
Original Peak Response = 2224416603 Manual Peak Response = 2219935243 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-12.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 3:35 pm Instrument : Pest 11
Sample : il11pest,42e,,pp 11397 L0.Quant Date : 12/20/2023 5:34 pm

Compound #53: 4,4'-DDE #2



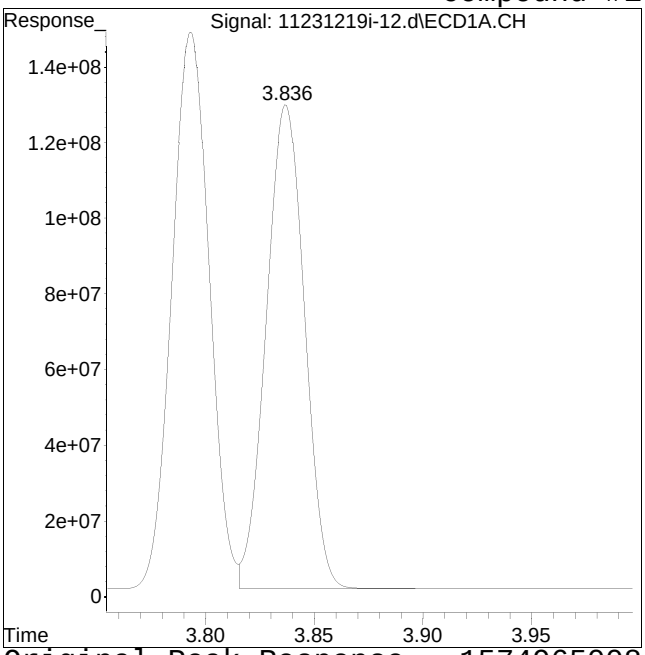


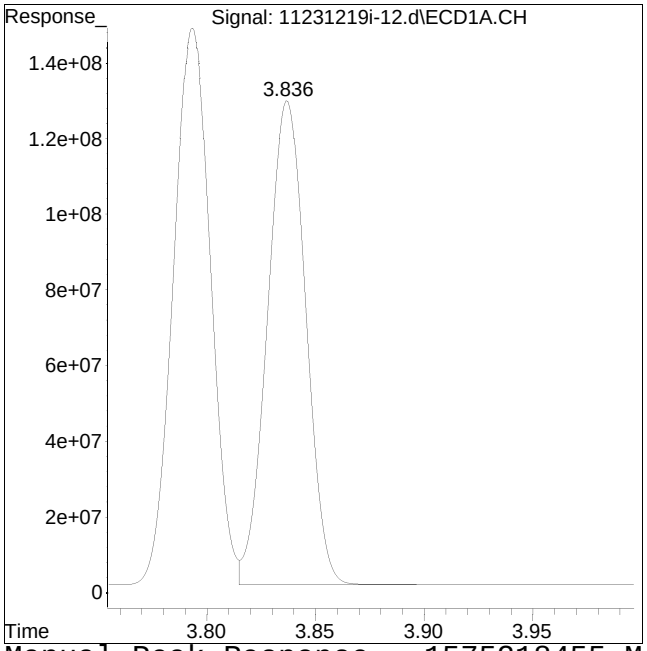
Original Peak Response = 2225940343 Manual Peak Response = 2213025563 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-12.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 3:35 pm Instrument : Pest 11
Sample : il11pest,42e,,pp 11397 L0.Quant Date : 12/20/2023 5:34 pm

Compound #16: Endosulfan I



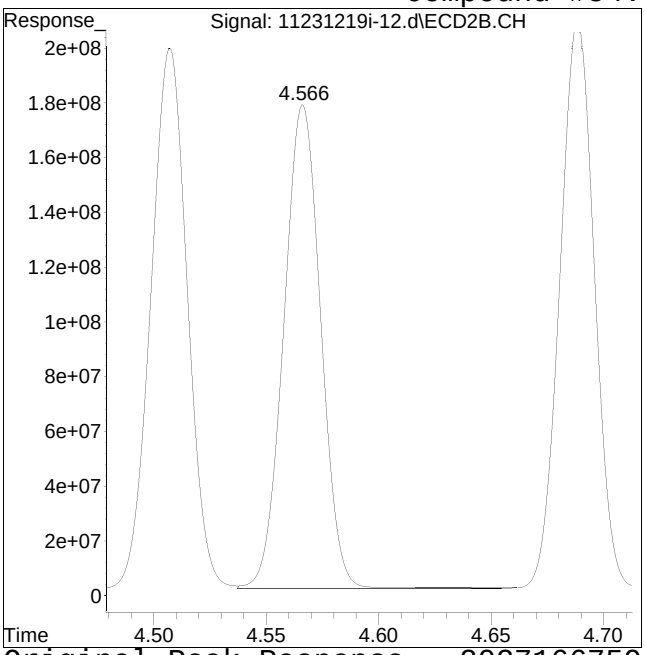


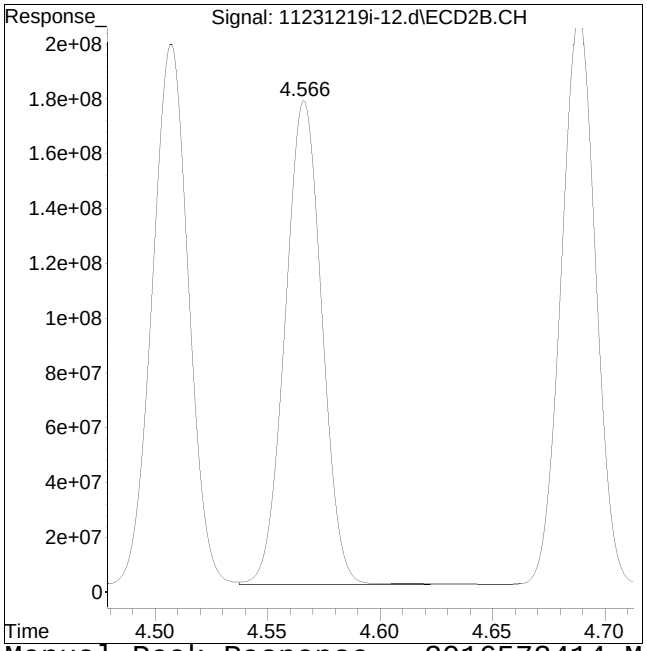
Original Peak Response = 1574965008 Manual Peak Response = 1575218455 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-12.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 3:35 pm Instrument : Pest 11
Sample : il11pest,42e,,pp 11397 L0.Quant Date : 12/20/2023 5:34 pm

Compound #54: Endosulfan I #2



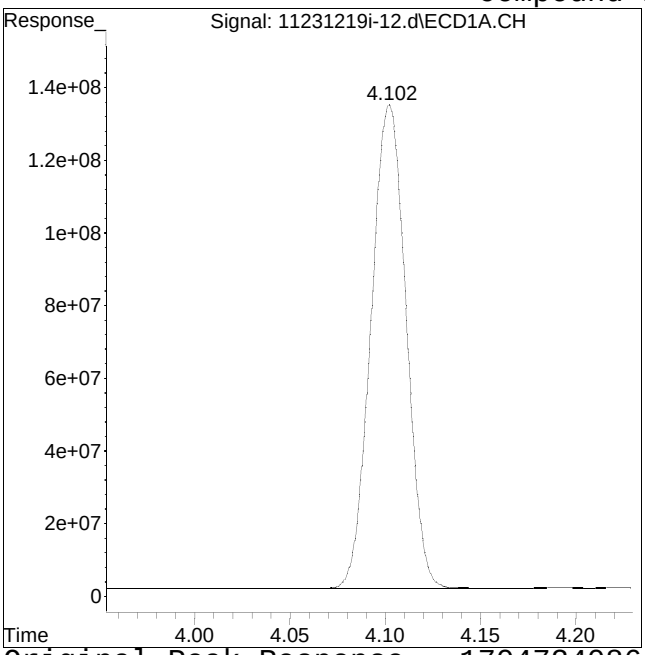


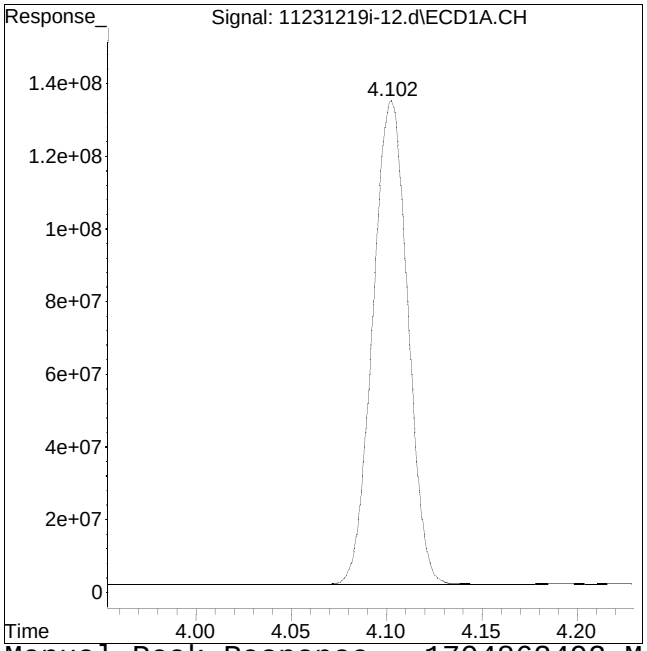
Original Peak Response = 2027166759 Manual Peak Response = 2016572414 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-12.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 3:35 pm Instrument : Pest 11
Sample : il11pest,42e,,pp 11397 L0.Quant Date : 12/20/2023 5:34 pm

Compound #17: Dieldrin



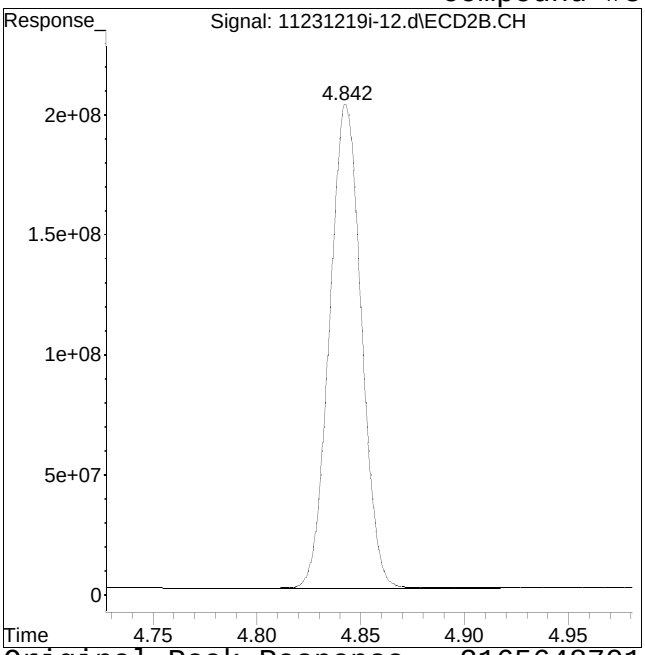


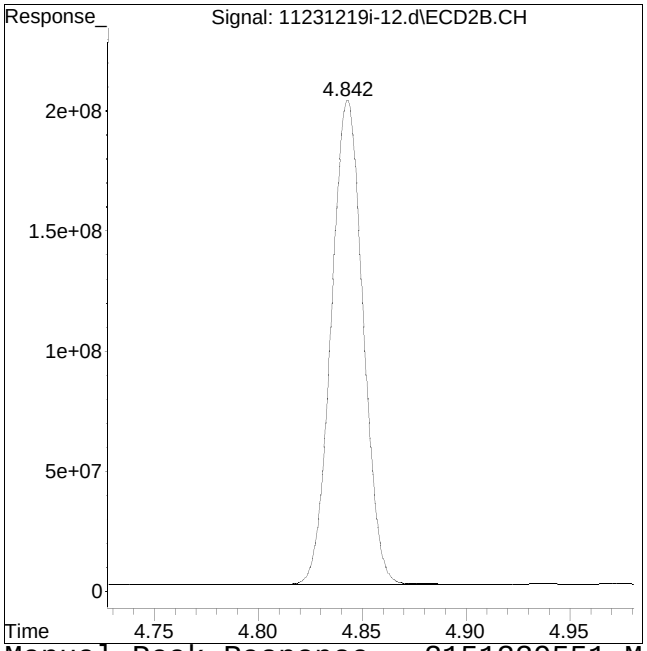
Original Peak Response = 1704724086 Manual Peak Response = 1704862492 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-12.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 3:35 pm Instrument : Pest 11
Sample : il11pest,42e,,pp 11397 L0.Quant Date : 12/20/2023 5:34 pm

Compound #55: Dieldrin #2



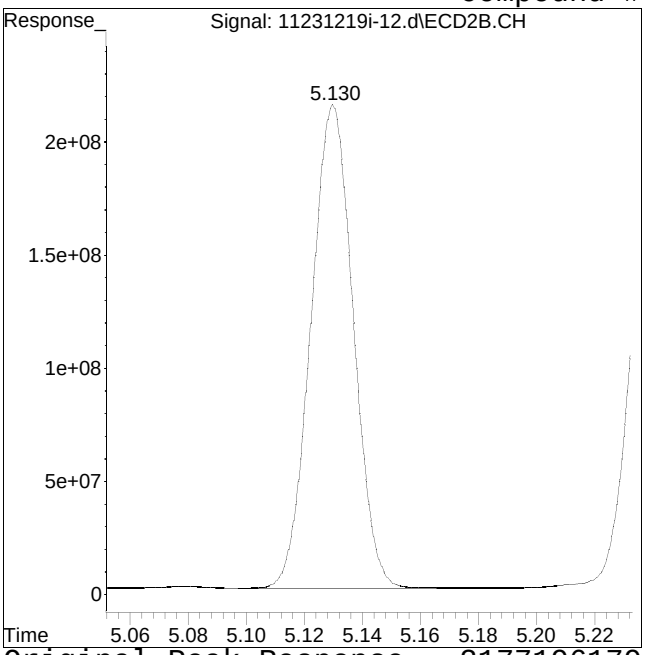


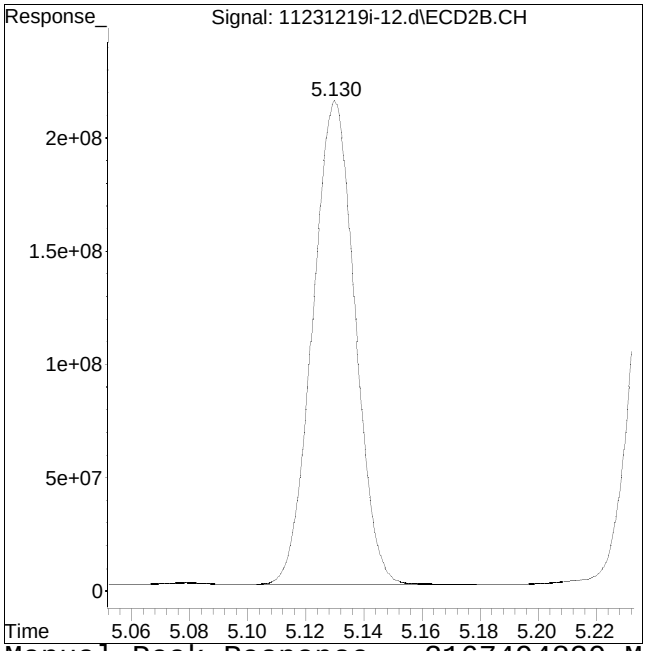
Original Peak Response = 2165648701 Manual Peak Response = 2151339551 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-12.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 3:35 pm Instrument : Pest 11
Sample : il11pest,42e,,pp 11397 L0.Quant Date : 12/20/2023 5:34 pm

Compound #56: Endrin #2



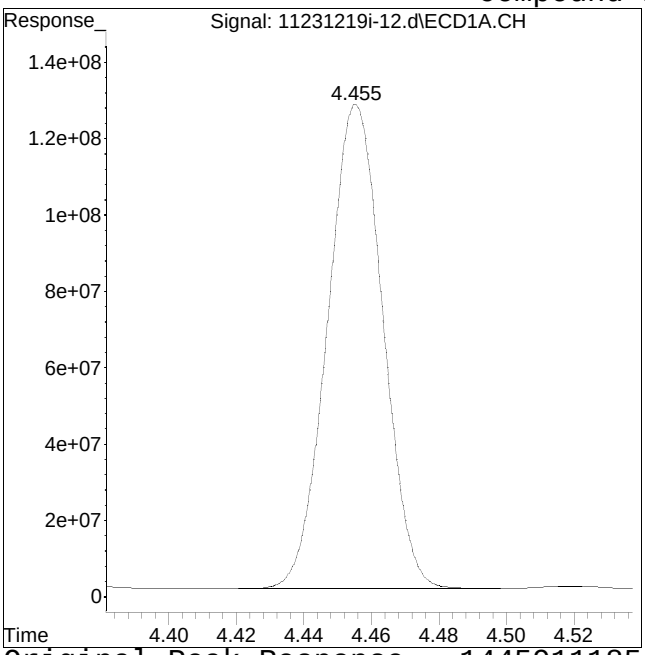


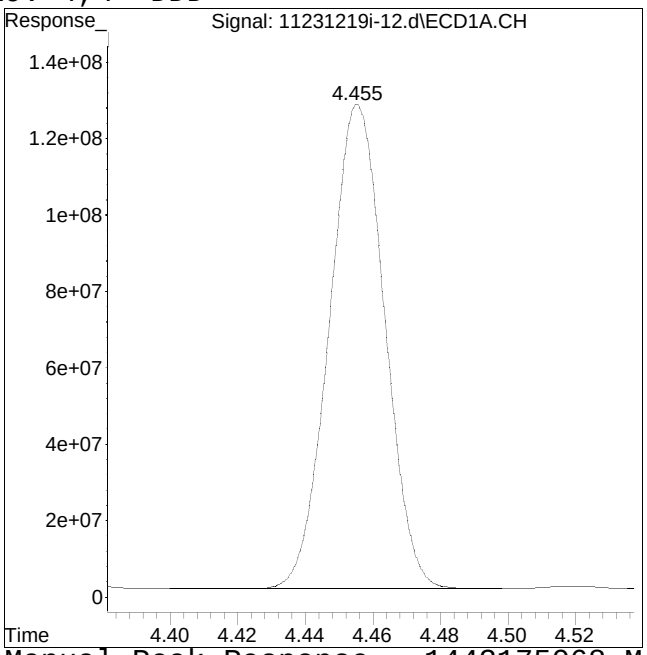
Original Peak Response = 2177196179 Manual Peak Response = 2167494830 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-12.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 3:35 pm Instrument : Pest 11
Sample : il11pest,42e,,pp 11397 L0.Quant Date : 12/20/2023 5:34 pm

Compound #19: 4,4'-DDD



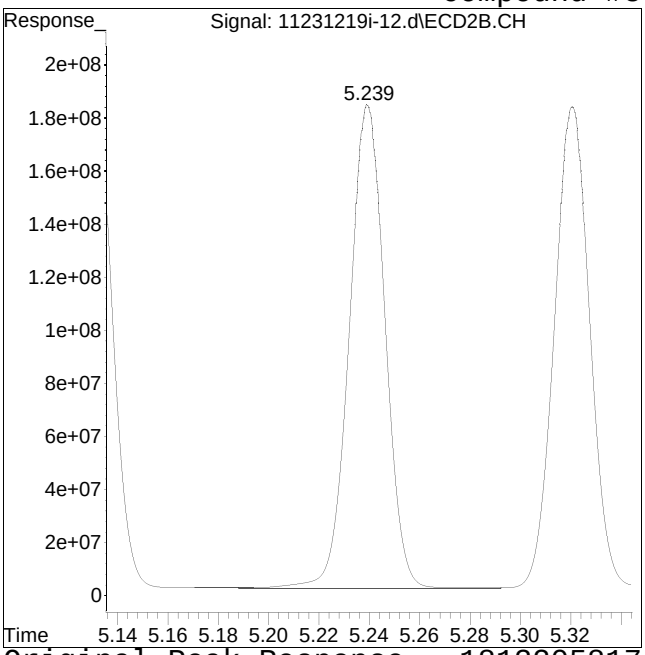


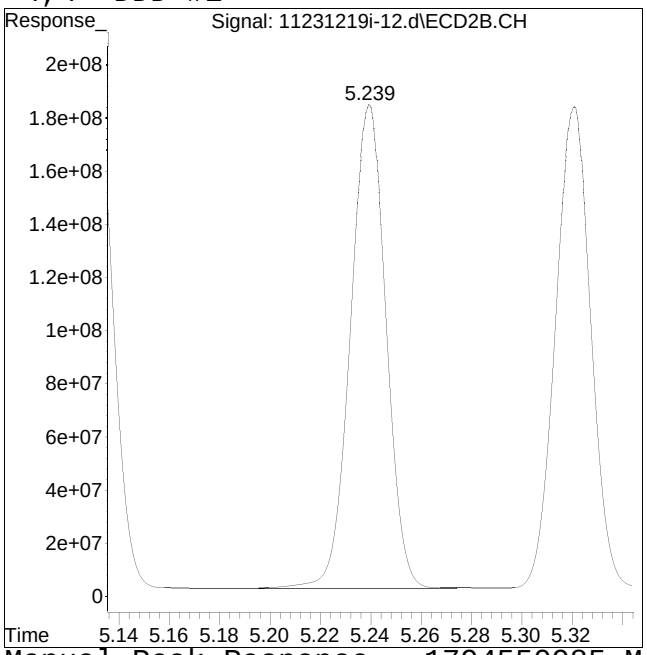
Original Peak Response = 1445911185 Manual Peak Response = 1443175068 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-12.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 3:35 pm Instrument : Pest 11
Sample : il11pest,42e,,pp 11397 L0.Quant Date : 12/20/2023 5:34 pm

Compound #57: 4,4'-DDD #2



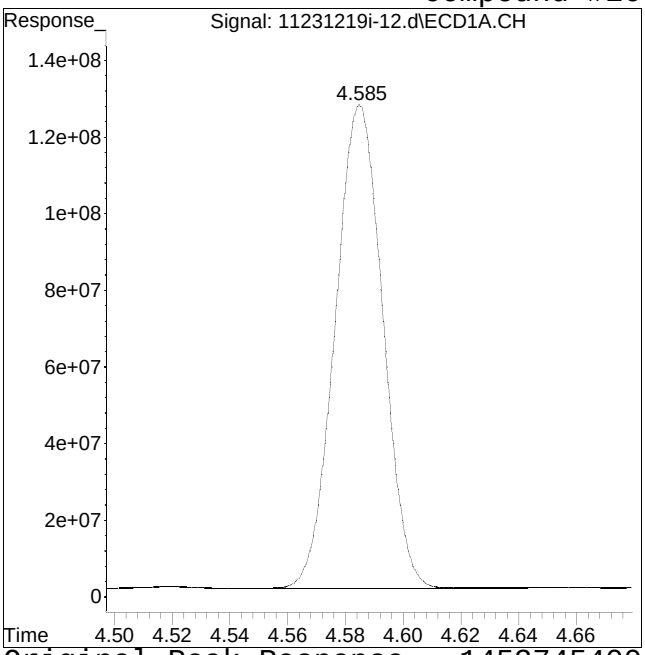


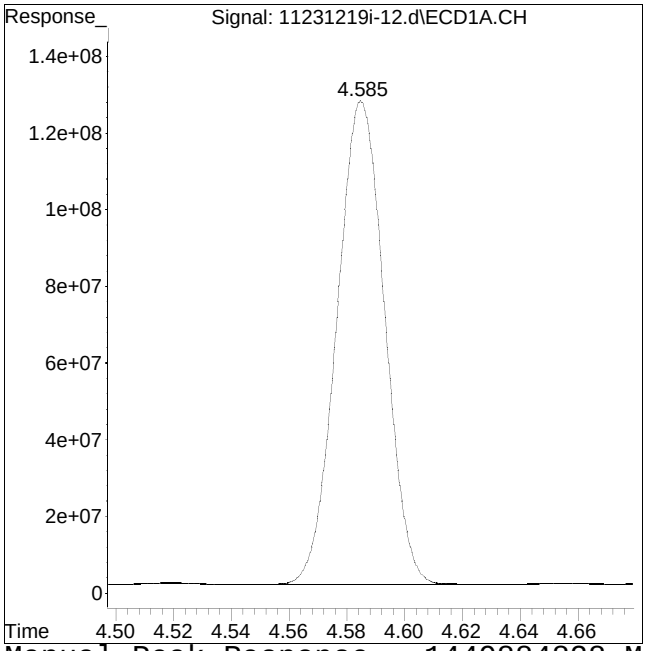
Original Peak Response = 1813205817 Manual Peak Response = 1794550985 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-12.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 3:35 pm Instrument : Pest 11
Sample : il11pest,42e,,pp 11397 L0.Quant Date : 12/20/2023 5:34 pm

Compound #20: Endosulfan II



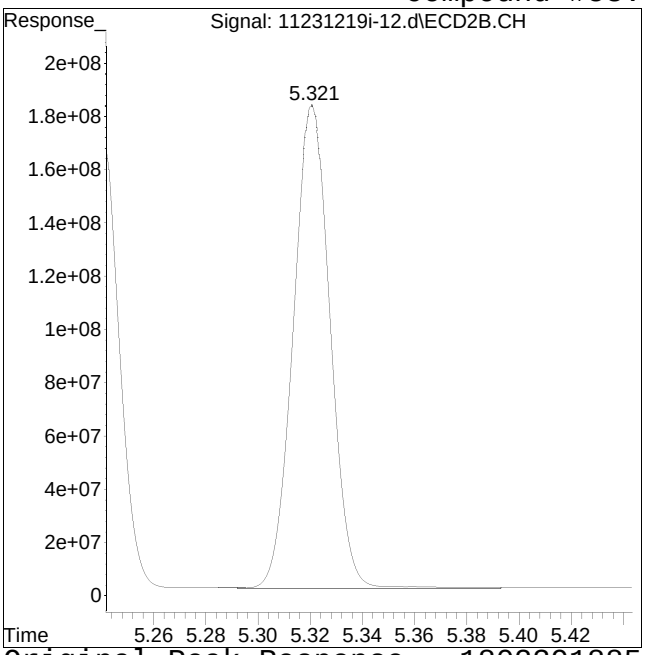


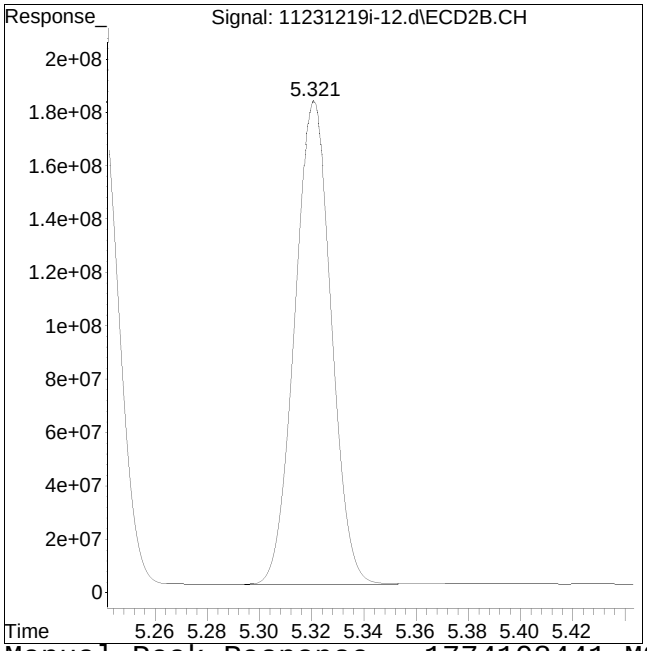
Original Peak Response = 1453745400 Manual Peak Response = 1449884828 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-12.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 3:35 pm Instrument : Pest 11
Sample : il11pest,42e,,pp 11397 L0.Quant Date : 12/20/2023 5:34 pm

Compound #58: Endosulfan II #2



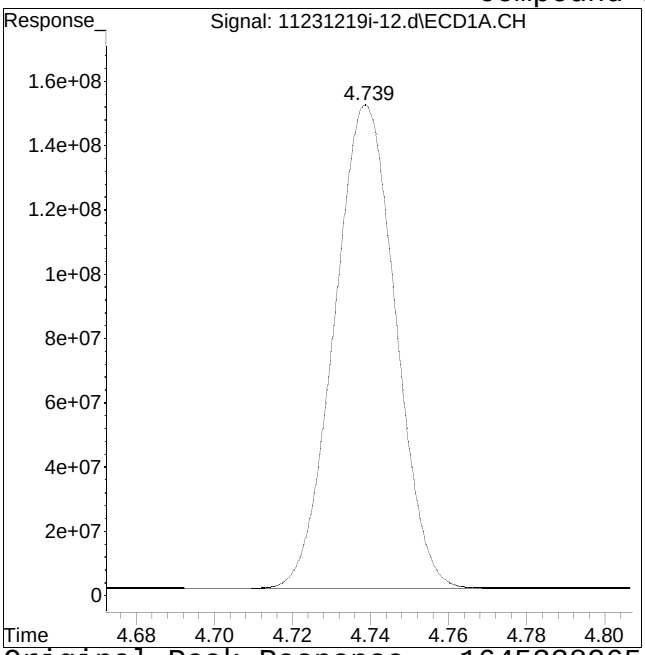


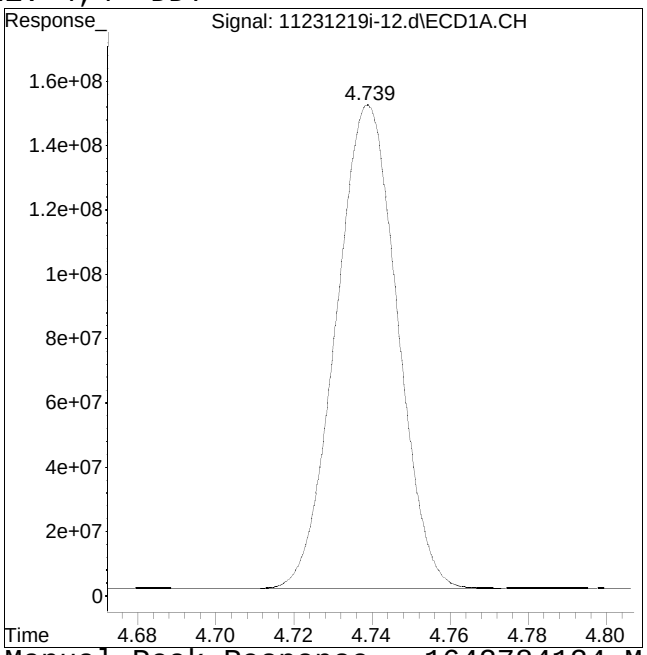
Original Peak Response = 1802391885 Manual Peak Response = 1774108441 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-12.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 3:35 pm Instrument : Pest 11
Sample : il11pest,42e,,pp 11397 L0.Quant Date : 12/20/2023 5:34 pm

Compound #21: 4,4'-DDT



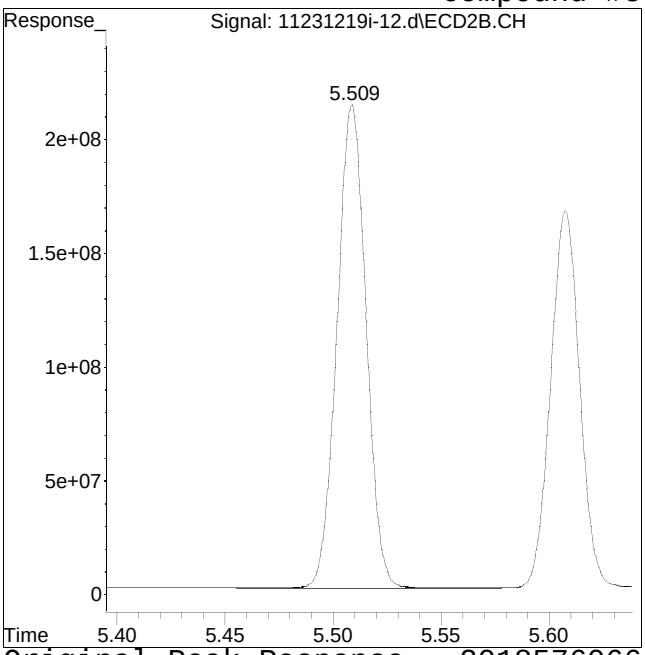


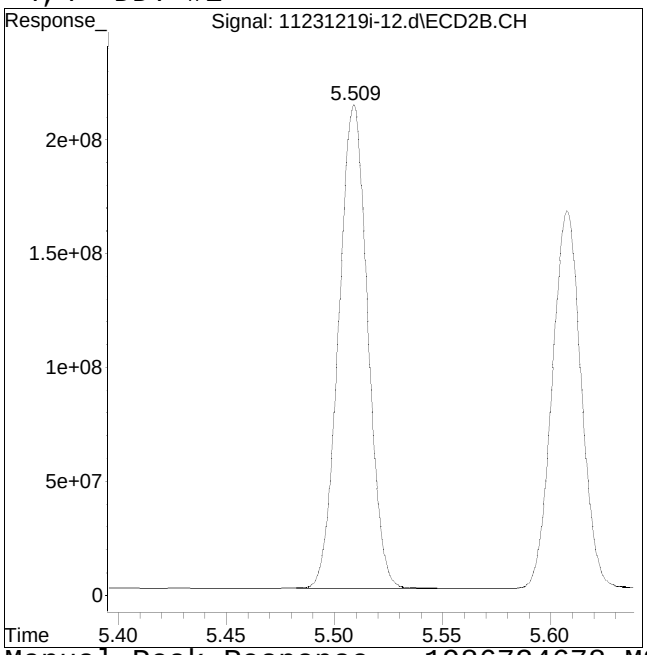
Original Peak Response = 1645338265 Manual Peak Response = 1642784124 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-12.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 3:35 pm Instrument : Pest 11
Sample : il11pest,42e,,pp 11397 L0.Quant Date : 12/20/2023 5:34 pm

Compound #59: 4,4'-DDT #2



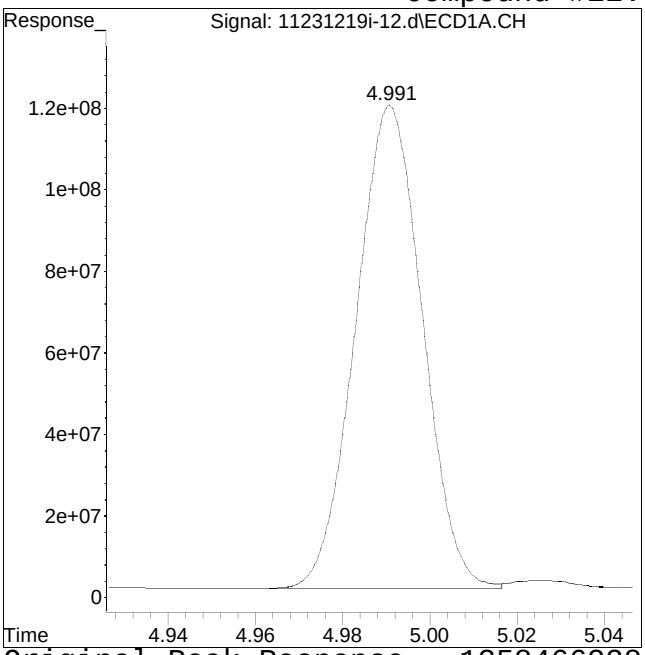


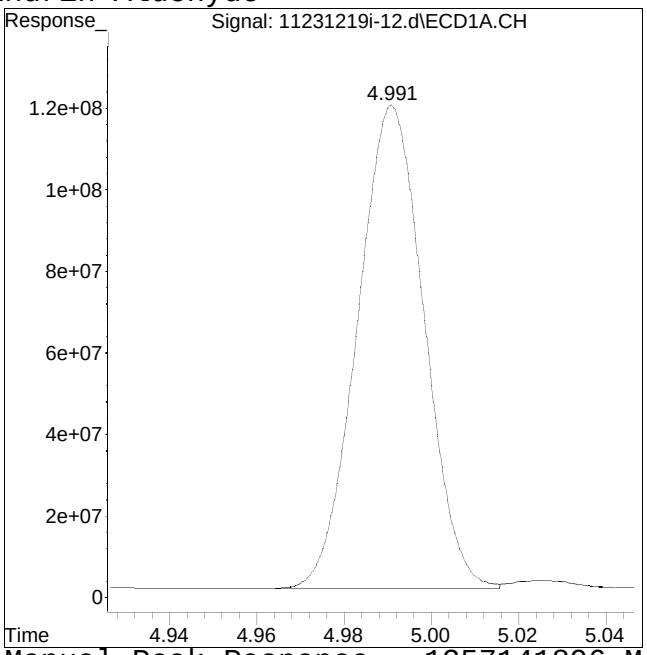
Original Peak Response = 2018576066 Manual Peak Response = 1986724678 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-12.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 3:35 pm Instrument : Pest 11
Sample : il11pest,42e,,pp 11397 L0.Quant Date : 12/20/2023 5:34 pm

Compound #22: Endrin Aldehyde



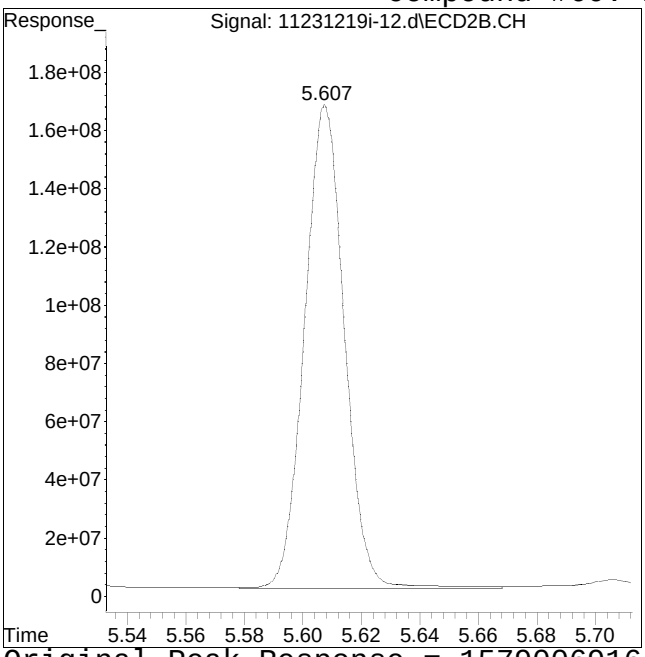


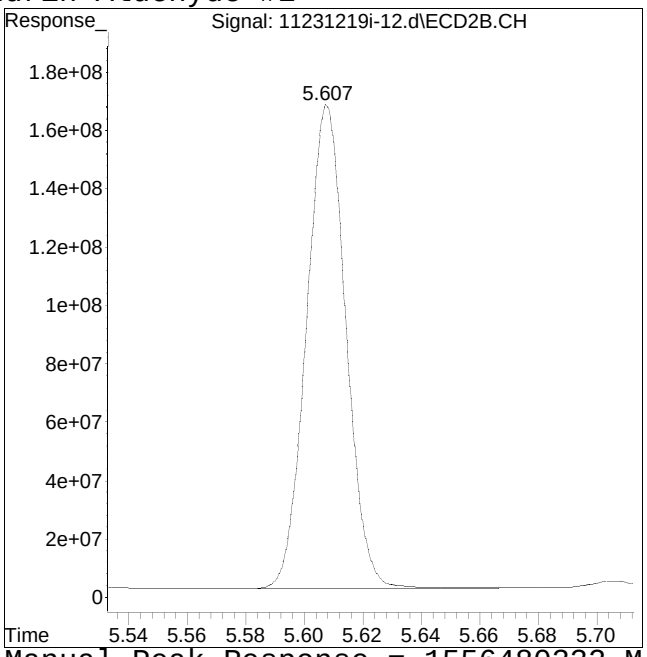
Original Peak Response = 1258466228 Manual Peak Response = 1257141896 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-12.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 3:35 pm Instrument : Pest 11
Sample : il11pest,42e,,pp 11397 L0.Quant Date : 12/20/2023 5:34 pm

Compound #60: Endrin Aldehyde #2



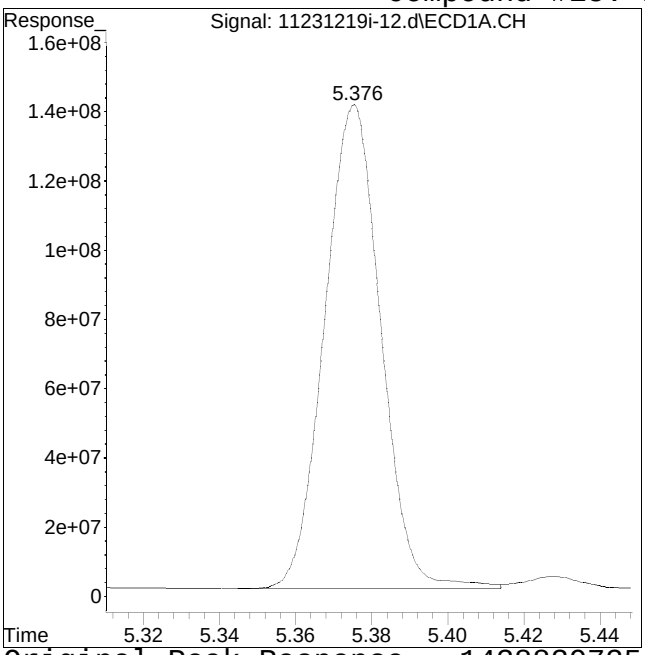


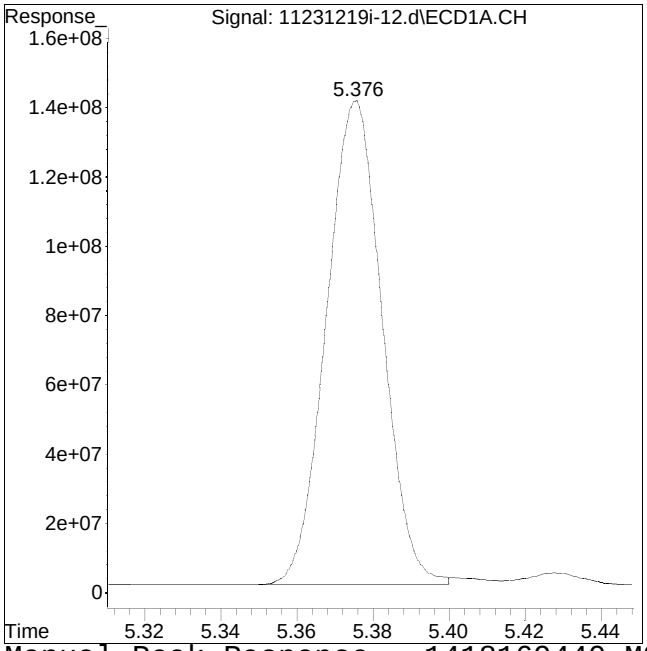
Original Peak Response = 1579006916 Manual Peak Response = 1556480332 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-12.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 3:35 pm Instrument : Pest 11
Sample : il11pest,42e,,pp 11397 L0.Quant Date : 12/20/2023 5:34 pm

Compound #25: Endosulfan Sulfate



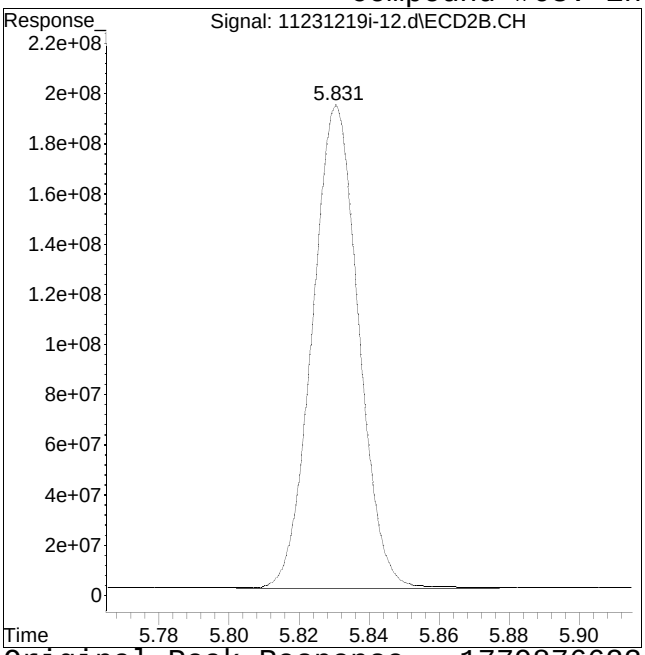


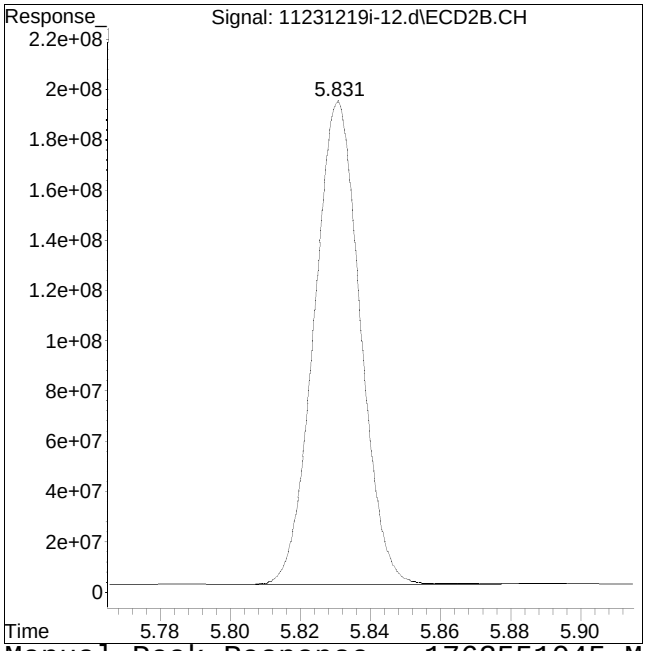
Original Peak Response = 1438839735 Manual Peak Response = 1418169440 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-12.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 3:35 pm Instrument : Pest 11
Sample : il11pest,42e,,pp 11397 L0.Quant Date : 12/20/2023 5:34 pm

Compound #63: Endosulfan Sulfate #2



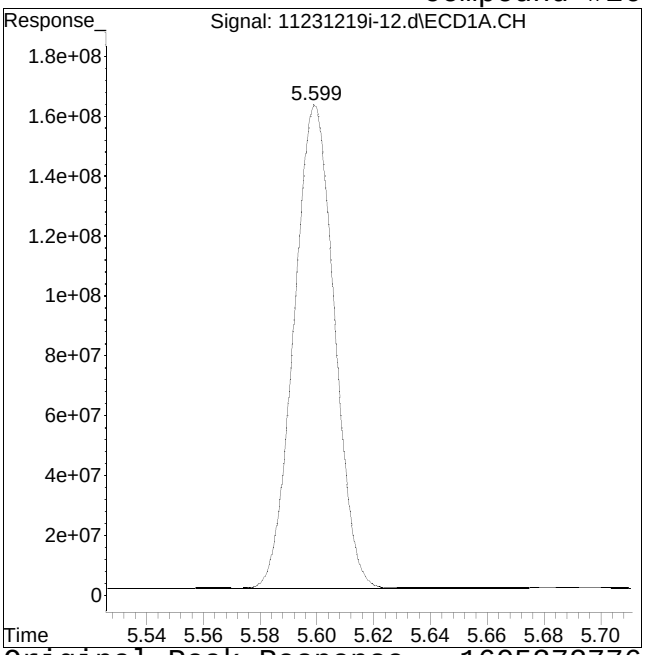


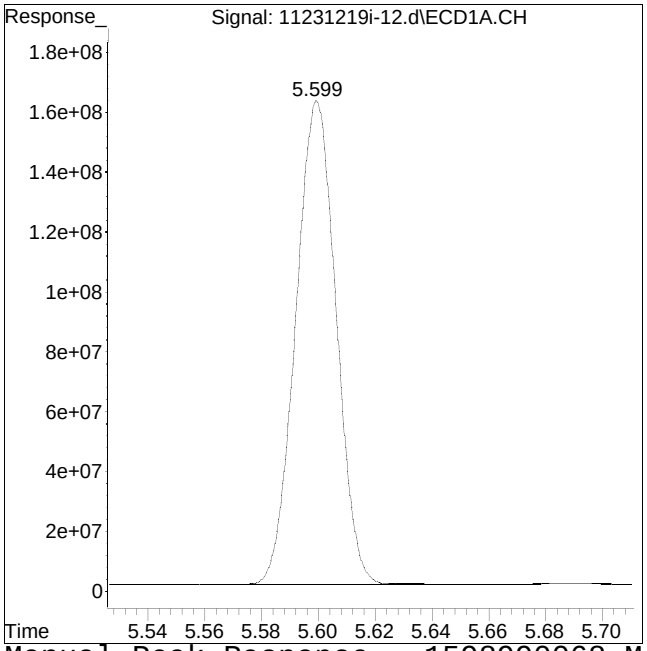
Original Peak Response = 1779876623 Manual Peak Response = 1763551045 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-12.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 3:35 pm Instrument : Pest 11
Sample : il11pest,42e,,pp 11397 L0.Quant Date : 12/20/2023 5:34 pm

Compound #26: Endrin Ketone



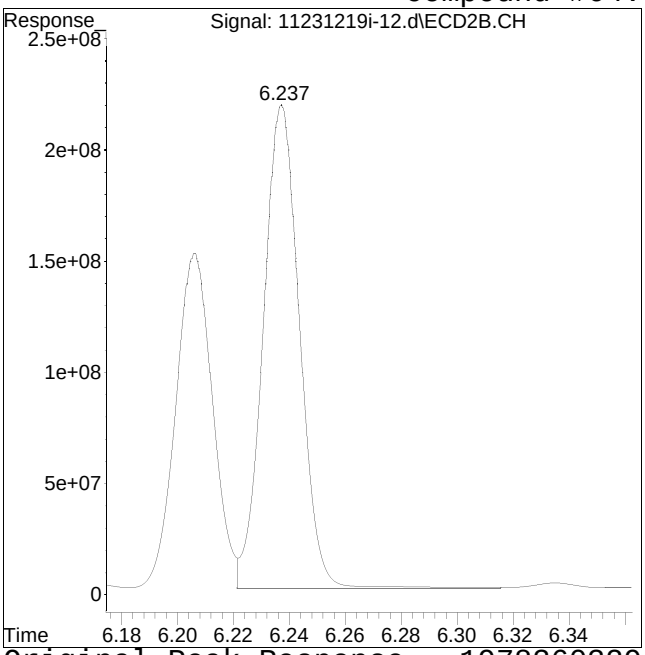


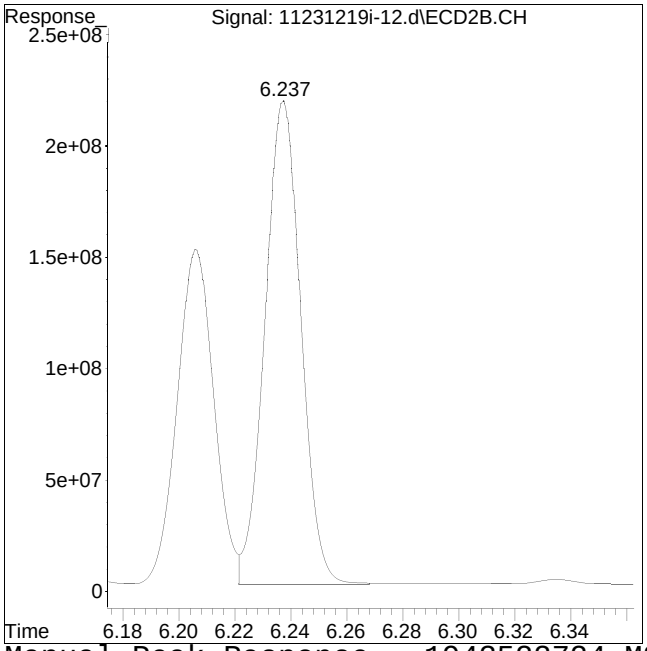
Original Peak Response = 1605372776 Manual Peak Response = 1598990068 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-12.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 3:35 pm Instrument : Pest 11
Sample : il11pest,42e,,pp 11397 L0.Quant Date : 12/20/2023 5:34 pm

Compound #64: Endrin Ketone #2



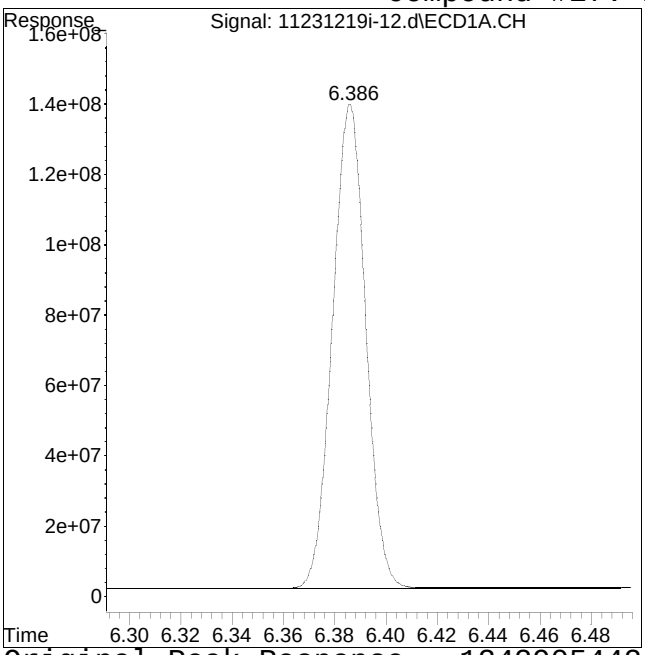


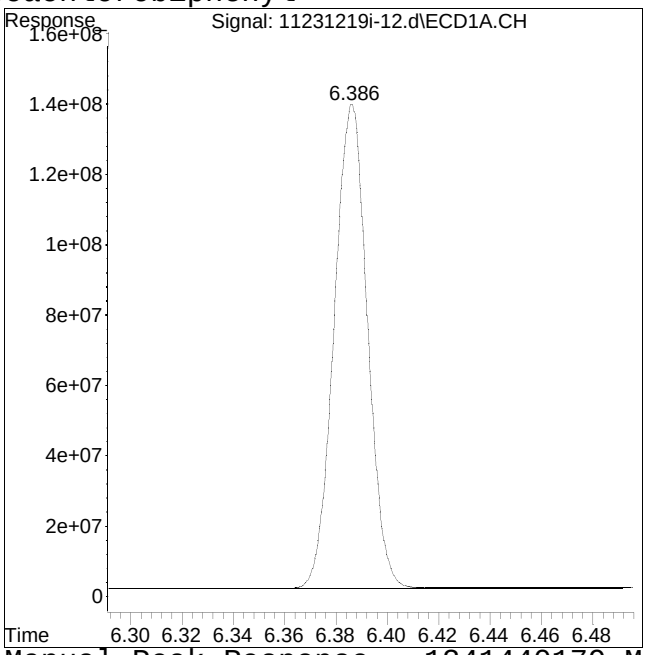
Original Peak Response = 1978360329 Manual Peak Response = 1943522724 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-12.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 3:35 pm Instrument : Pest 11
Sample : il11pest,42e,,pp 11397 L0.Quant Date : 12/20/2023 5:34 pm

Compound #27: Decachlorobiphenyl





Original Peak Response = 1242905442 Manual Peak Response = 1241440179 M4
M4 = Poor automated baseline construction.

Initial Calibration Verification

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest11\2023\231219ICAL\
Data File : 11231219i-13.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 19 Dec 2023   3:47 pm
Operator : PEST11:ejl
Sample   : cicvpest,42e,,pp 11430 L0.05ICV
Misc   : WG1866910,ical (Sig #1); ical (Sig #2)
ALS Vial : 13 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 20 18:31:45 2023
Quant Method : I:\PEST\Pest11\2023\231219ICAL\pest11_12_19_23_ugL_ICAL.M
Quant Title : pest
QLast Update : Wed Dec 20 18:31:47 2023
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
1	i	1-br-2-nb_Pesticides	^	1.000	1.000	0.0	100	0.00
2	s	2,4,5,6-Tetrachloro-m-xylen		0.958	0.991	-3.4	105	0.00
3	t	Hexachlorobenzene		1.110	1.045	5.9	100	0.00
4	t	alpha-BHC		1.338	1.420	-6.1	99	0.00
5	t	gamma-BHC (lindane)		1.278	1.294	-1.3	97	0.00
6	t	beta-BHC	*	50.000	49.949	0.1	99	0.00
7	t	delta-BHC		1.294	1.271	1.8	94	0.00
8	t	Heptachlor		1.309	1.294	1.1	99	0.00
9	t	Aldrin		1.187	1.214	-2.3	100	0.00
10	t	Alachlor		0.192	0.179	6.8	101	0.00
11	t	Chlorpyrifos	*	50.000	52.904	-5.8	100	0.00
12	t	Heptachlor Epoxide		1.198	1.151	3.9	98	0.00
13	t	gamma-Chlordane (trans)		1.091	1.181	-8.2	113	0.00
14	t	alpha-Chlordane (cis)		1.241	1.172	5.6	98	0.00
15	t	4,4'-DDE		1.126	1.127	-0.1	98	0.00
16	t	Endosulfan I		1.172	1.090	7.0	98	0.00
17	t	Dieldrin		1.168	1.224	-4.8	107	0.00
18	t	Endrin		1.186	1.134	4.4	95	0.00
19	t	4,4'-DDD		0.934	0.986	-5.6	105	0.00
20	t	Endosulfan II		1.095	1.076	1.7	101	0.00
21	t	4,4'-DDT		1.111	1.079	2.9	99	0.00
22	t	Endrin Aldehyde	*	50.000	45.526	8.9	91	0.00
23	t	Methoxychlor	*	50.000	51.546	-3.1	100	0.00
24	t	Mirex	*	50.000	51.536	-3.1	102	0.00
25	t	Endosulfan Sulfate		1.076	1.032	4.1	102	0.00
26	t	Endrin Ketone		1.215	1.245	-2.5	106	0.00
27	s	Decachlorobiphenyl	*	50.000	52.424	-4.8	101	0.00

Signal #2

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest11\2023\231219ICAL\
Data File : 11231219i-13.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 19 Dec 2023   3:47 pm
Operator : PEST11:ejl
Sample   : cicvpest,42e,,pp 11430 L0.05ICV
Misc   : WG1866910,ical (Sig #1); ical (Sig #2)
ALS Vial : 13 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 20 18:31:45 2023
Quant Method : I:\PEST\Pest11\2023\231219ICAL\pest11_12_19_23_ugL_ICAL.M
Quant Title : pest
QLast Update : Wed Dec 20 18:31:47 2023
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
1	i	1-br-2-nb_Pesticides	^	1.000	1.000	0.0	99	0.00
2	s	2,4,5,6-Tetrachloro-m-xyl		0.995	0.982	1.3	104	0.00
3	t	Hexachlorobenzene	*	50.000	49.842	0.3	100	0.00
4	t	alpha-BHC		1.388	1.389	-0.1	99	0.00
5	t	gamma-BHC (lindane)		1.315	1.244	5.4	97	0.00
6	t	beta-BHC	*	50.000	49.047	1.9	98	0.00
7	t	delta-BHC		1.309	1.212	7.4	94	0.00
8	t	Heptachlor		1.356	1.257	7.3	98	0.00
9	t	Aldrin		1.227	1.185	3.4	100	0.00
10	t	Alachlor	*	50.000	54.325	-8.7	99	0.00
11	t	Chlorpyrifos	*	50.000	52.609	-5.2	100	0.00
12	t	Heptachlor Epoxide	*	50.000	47.941	4.1	98	0.00
13	t	gamma-Chlordane (trans)		1.105	1.132	-2.4	112	0.00
14	t	alpha-Chlordane (cis)	*	50.000	47.715	4.6	99	0.00
15	t	4,4'-DDE		1.127	1.067	5.3	98	0.00
16	t	Endosulfan I		1.127	1.019	9.6	98	0.00
17	t	Dieldrin		1.127	1.134	-0.6	107	0.00
18	t	Endrin		1.130	1.024	9.4	95	0.00
19	t	4,4'-DDD		0.897	0.889	0.9	104	0.00
20	t	Endosulfan II		1.018	0.950	6.7	101	0.00
21	t	4,4'-DDT	*	50.000	46.285	7.4	97	0.00
22	t	Endrin Aldehyde	*	50.000	43.977	12.0	92	0.00
23	t	Methoxychlor	*	50.000	49.647	0.7	99	0.00
24	t	Mirex	*	50.000	50.941	-1.9	101	0.00
25	t	Endosulfan Sulfate		0.994	0.904	9.1	102	0.00
26	t	Endrin Ketone		1.068	1.032	3.4	105	0.00
27	s	Decachlorobiphenyl	*	50.000	50.182	-0.4	99	0.00

Evaluate Continuing Calibration Report - Not Founds

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest11\2023\231219ICAL\
Data File : 11231219i-13.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 19 Dec 2023   3:47 pm
Operator : PEST11:ejl
Sample   : cicvpest,42e,,pp 11430 L0.05ICV
Misc   : WG1866910,ical (Sig #1); ical (Sig #2)
ALS Vial : 13 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 20 18:31:45 2023
Quant Method : I:\PEST\Pest11\2023\231219ICAL\pest11_12_19_23_ugL_ICAL.M
Quant Title : pest
QLast Update : Wed Dec 20 18:31:47 2023
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
28	i	1-br-2-nb_Chlordane	^	1.000	1.000	0.0	0	-1.38#
29	l1	chlordane-1	*	0.038	0.000	100.0#	0#	-2.56#
30	l1	chlordane-3	*	0.046	0.000	100.0#	0#	-2.98#
31	l1	chlordane-4	*	0.153	0.000	100.0#	0#	-3.56#
32	l1	chlordane-5	*	0.239	0.000	100.0#	0#	-3.69#
33	i	1-br-2-nb_Toxaphene	^	1.000	1.000	0.0	0	-1.38#
34	l2	toxaphene-2		0.059	0.000	100.0#	0#	-4.58#
35	l2	toxaphene-3		0.043	0.000	100.0#	0#	-4.70#
36	l2	toxaphene-4		0.050	0.000	100.0#	0#	-4.91#
37	l2	toxaphene-5		0.045	0.000	100.0#	0#	-5.28#

Signal #2

28	i	1-br-2-nb_Chlordane	^	1.000	1.000	0.0	0	-1.48#
29	l1	chlordane-1	*	0.039	0.000	100.0#	0#	-3.01#
30	l1	chlordane-3	*	0.044	0.000	100.0#	0#	-3.65#
31	l1	chlordane-4	*	0.141	0.000	100.0#	0#	-4.35#
32	l1	chlordane-5	*	0.112	0.000	100.0#	0#	-4.51#
33	i	1-br-2-nb_Toxaphene	^	1.000	1.000	0.0	0	-1.48#
34	l2	toxaphene-2		0.022	0.000	100.0#	0#	-5.28#
35	l2	toxaphene-3		0.033	0.000	100.0#	0#	-5.31#
36	l2	toxaphene-4		0.038	0.000	100.0#	0#	-5.62#
37	l2	toxaphene-5		0.036	0.000	100.0#	0#	-6.02#

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0
(^) = ISTD area calculated using ICAL average

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2023\231219ICAL\
Data File : 11231219i-13.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 19 Dec 2023 3:47 pm
Operator : PEST11:ejl
Sample : cicvpest,42e,,pp 11430 L0.05ICV
Misc : WG1866910,ical (Sig #1); ical (Sig #2)
ALS Vial : 13 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 20 18:31:45 2023
Quant Method : I:\PEST\Pest11\2023\231219ICAL\pest11_12_19_23_ugL_ICAL.M
Quant Title : pest
QLast Update : Wed Dec 20 18:31:47 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	1.375	1.481	87630672	118.7E6	25.000M4	25.000
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.729	1.986	173.7E6	233.2E6	51.743M4	49.328
	Spiked Amount 50.000	Range 30 - 150		Recovery =		103.49%	98.66%
27) s	Decachlorobi	6.386	7.080	164.9E6	184.2E6	52.424M4	50.182M4
	Spiked Amount 50.000	Range 30 - 150		Recovery =		104.85%	100.36%
	Target Compounds						
3) t	Hexachlorobe	1.950	2.327	183.1E6	241.9E6	47.036	49.842M3
4) t	alpha-BHC	2.052	2.428	248.9E6	329.8E6	53.070	50.011M4
5) t	gamma-BHC (l	2.262	2.732	226.7E6	295.5E6	50.625	47.307
6) t	beta-BHC	2.319	2.798	99491008	130.1E6	49.949	49.047M4
7) t	delta-BHC	2.452	3.081	222.7E6	287.9E6	49.090	46.302
8) t	Heptachlor	2.620	3.152	226.9E6	298.5E6	49.439	46.338
9) t	Aldrin	2.870	3.488	212.8E6	281.5E6	51.148M3	48.302
10) t	Alachlor	2.994	3.360	31436122	40512927	46.742	54.325
11) t	Chlorpyrifos	3.088	3.730	103.6E6	147.2E6	52.904	52.609
12) t	Heptachlor E	3.431	4.129	201.6E6	261.8E6	48.037	47.941M3
13) t	gamma-Chlord	3.557	4.347	207.0E6	268.8E6	54.113	51.210M3
14) t	alpha-Chlord	3.695	4.507	205.4E6	261.7E6	47.244	47.715
15) t	4,4'-DDE	3.793	4.689	197.6E6	253.4E6	50.036	47.337
16) t	Endosulfan I	3.835	4.566	191.1E6	241.9E6	46.500M4	45.213
17) t	Dieldrin	4.101	4.843	214.4E6	269.3E6	52.389M3	50.311M3
18) t	Endrin	4.352	5.130	198.8E6	243.3E6	47.833M4	45.345
19) t	4,4'-DDD	4.455	5.239	172.7E6	211.2E6	52.781	49.587M3
20) t	Endosulfan I	4.584	5.321	188.6E6	225.7E6	49.145M3	46.691
21) t	4,4'-DDT	4.738	5.509	189.2E6	225.1E6	48.556	46.285M3

Data Path : I:\PEST\Pest11\2023\231219ICAL\
Data File : 11231219i-13.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 19 Dec 2023 3:47 pm
Operator : PEST11:ejl
Sample : cicvpest,42e,,pp 11430 L0.05ICV
Misc : WG1866910,ical (Sig #1); ical (Sig #2)
ALS Vial : 13 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 20 18:31:45 2023
Quant Method : I:\PEST\Pest11\2023\231219ICAL\pest11_12_19_23_ugL_ICAL.M
Quant Title : pest
QLast Update : Wed Dec 20 18:31:47 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
22) t	Endrin Aldeh	4.991	5.607	141.2E6	169.7E6	45.526	43.977M3
23) t	Methoxychlor	5.212	6.056	107.0E6	121.2E6	51.546	49.647M4
24) t	Mirex	5.274	6.206	165.9E6	180.1E6	51.536	50.941M4
25) t	Endosulfan S	5.375	5.830	180.9E6	214.7E6	47.951M4	45.494M4
26) t	Endrin Keton	5.599	6.237	218.3E6	245.2E6	51.266M4	48.321M4
29) l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000

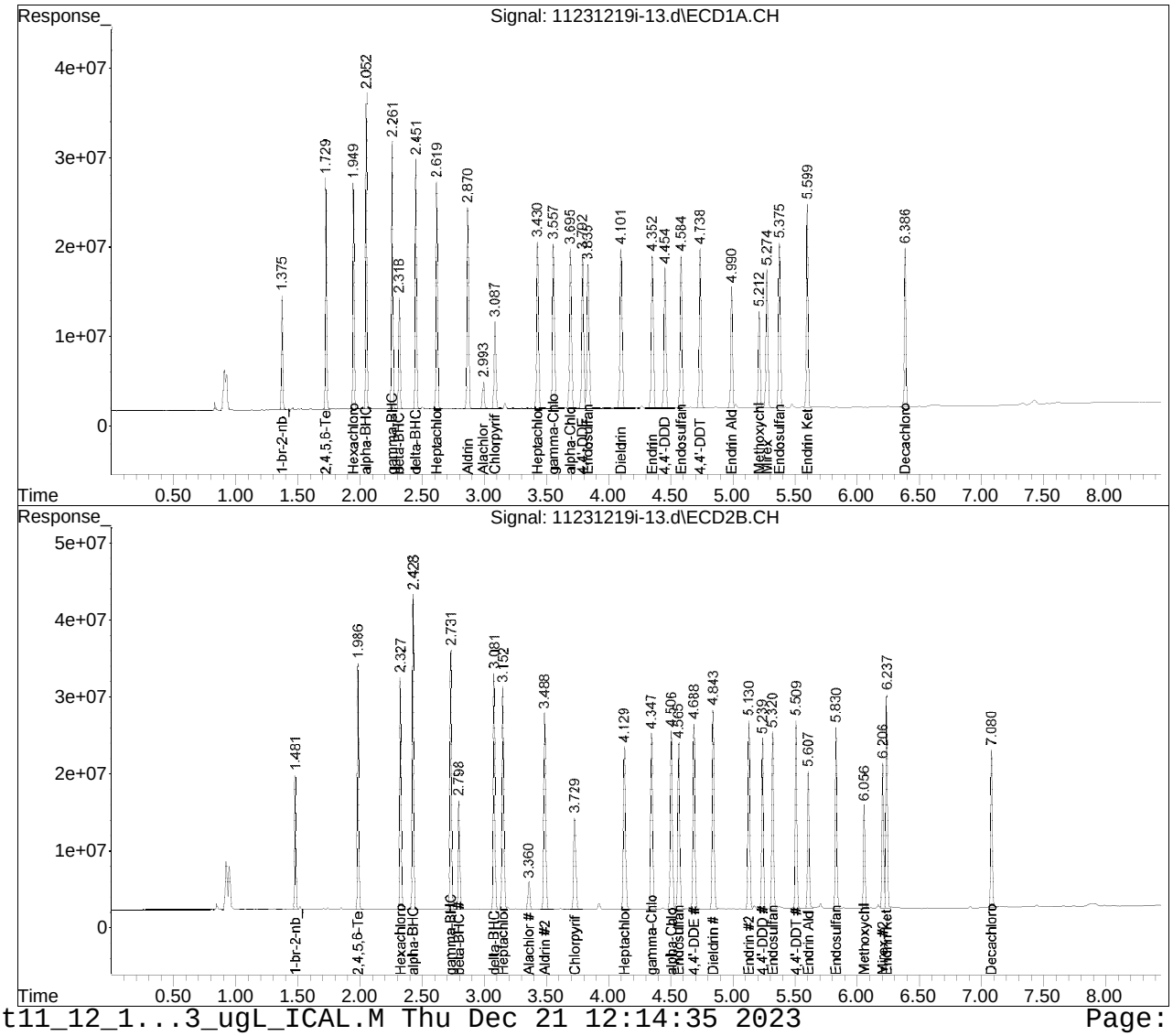
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest11\2023\231219ICAL\
Data File : 11231219i-13.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 19 Dec 2023 3:47 pm
Operator : PEST11:ejl
Sample : cicvpest,42e,,pp 11430 L0.05ICV
Misc : WG1866910,ical (Sig #1); ical (Sig #2)
ALS Vial : 13 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 20 18:31:45 2023
Quant Method : I:\PEST\Pest11\2023\231219ICAL\pest11_12_19_23_ugL_ICAL.M
Quant Title : pest
QLast Update : Wed Dec 20 18:31:47 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

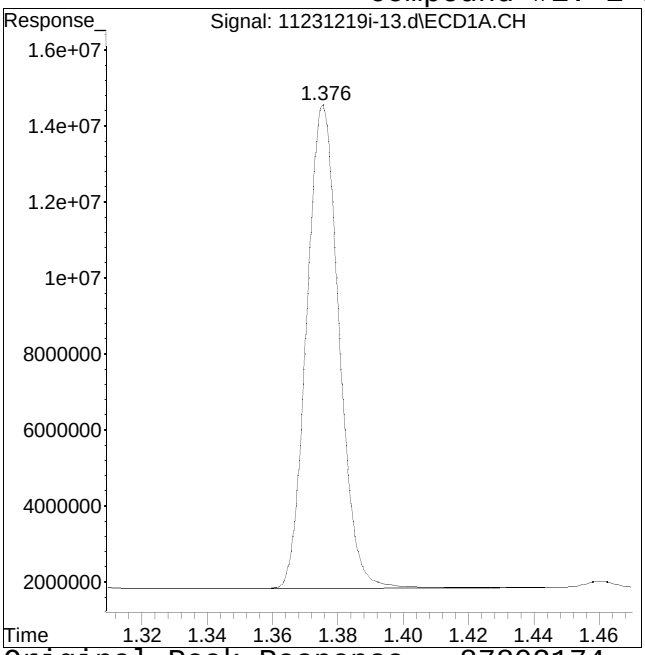
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



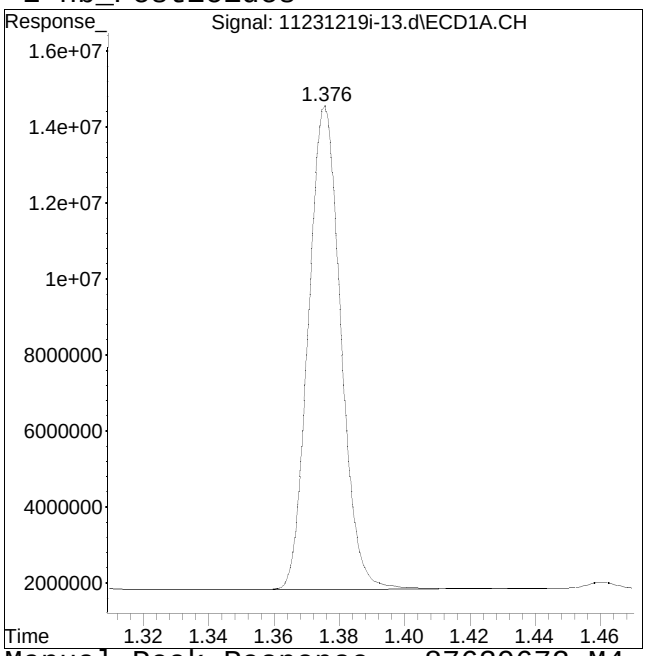
Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-13.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 3:47 pm Instrument : Pest 11
Sample : cicvpest,42e,,pp 11430 L0.Quant Date : 12/20/2023 6:31 pm

Compound #1: 1-br-2-nb_Pesticides



Original Peak Response = 87802174



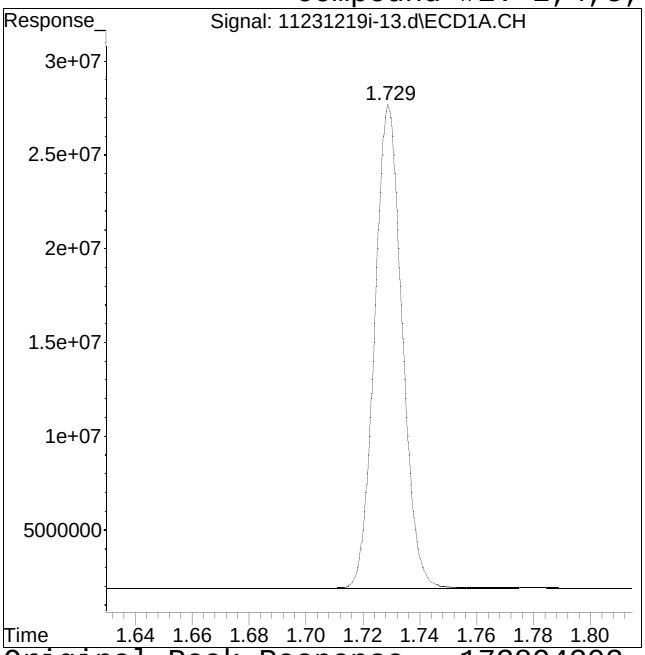
Manual Peak Response = 87630672 M4

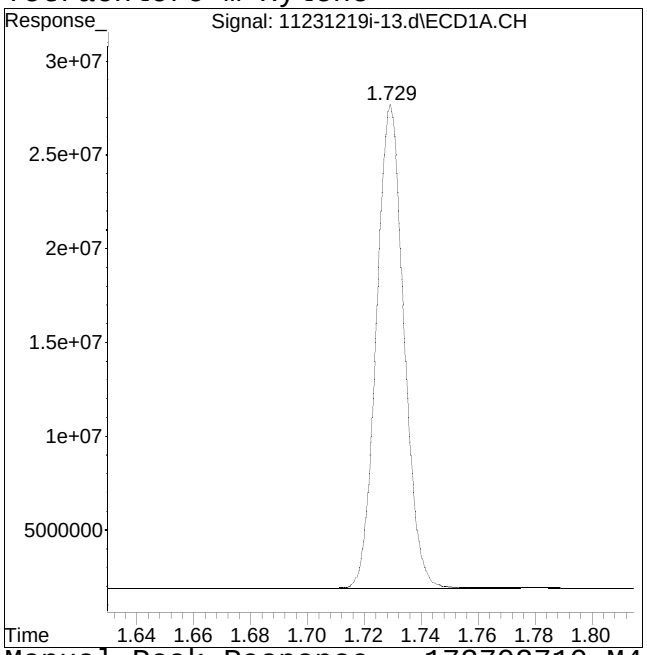
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-13.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 3:47 pm Instrument : Pest 11
Sample : cicvpest,42e,,pp 11430 L0.Quant Date : 12/20/2023 6:31 pm

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



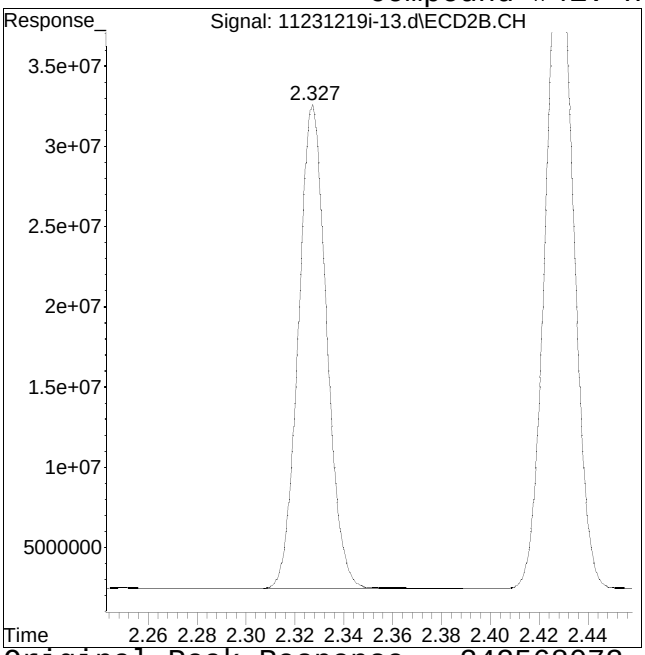


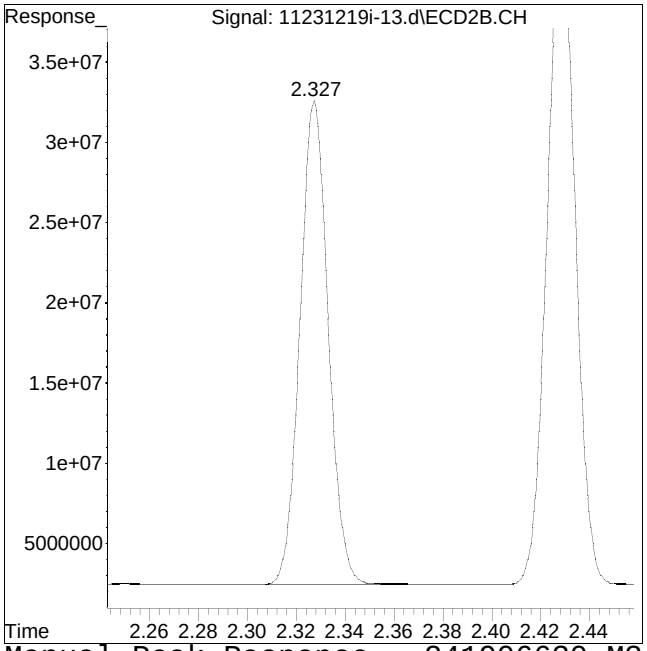
Original Peak Response = 173894303 Manual Peak Response = 173702710 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-13.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 3:47 pm Instrument : Pest 11
Sample : cicvpest,42e,,pp 11430 L0.Quant Date : 12/20/2023 6:31 pm

Compound #41: Hexachlorobenzene #2



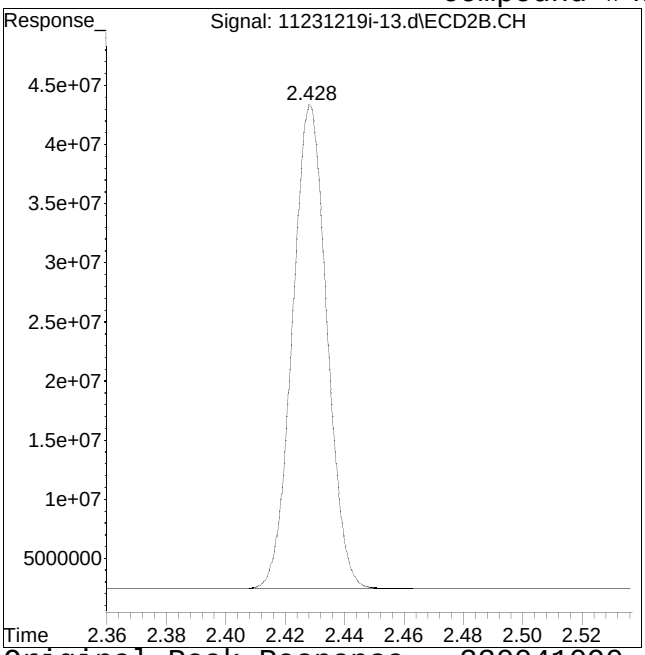


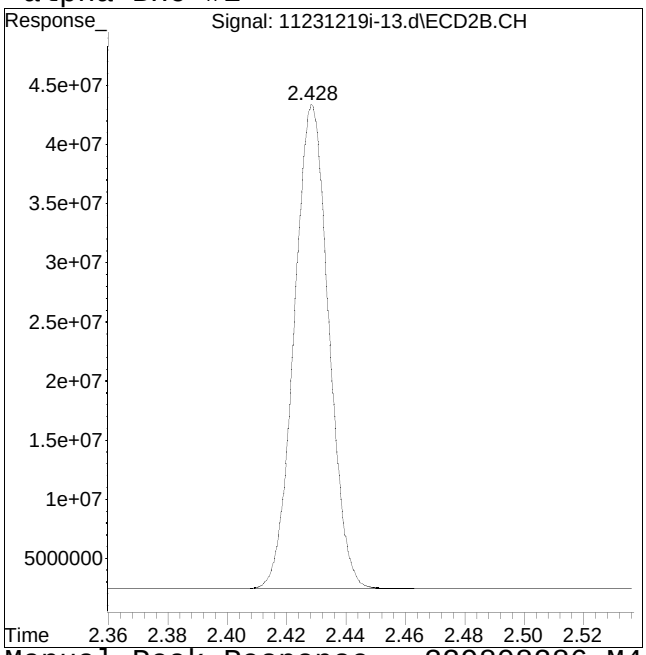
Original Peak Response = 242568073 Manual Peak Response = 241906630 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-13.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 3:47 pm Instrument : Pest 11
Sample : cicvpest,42e,,pp 11430 L0.Quant Date : 12/20/2023 6:31 pm

Compound #42: alpha-BHC #2



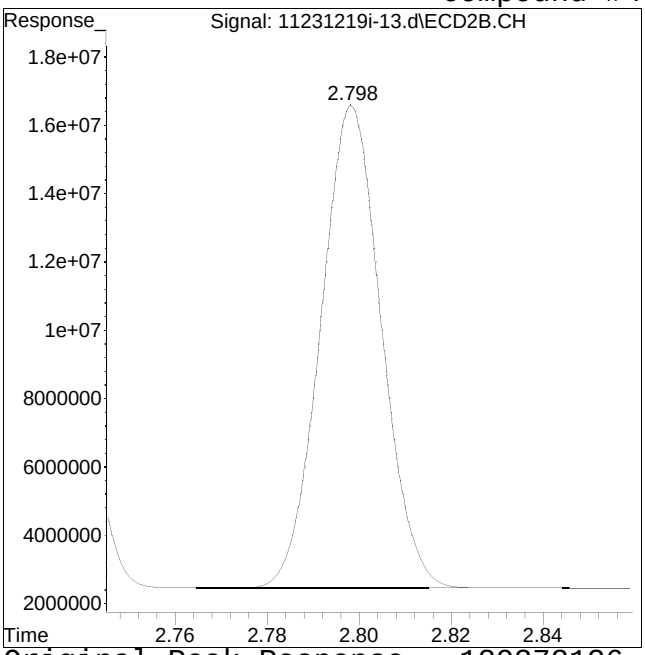


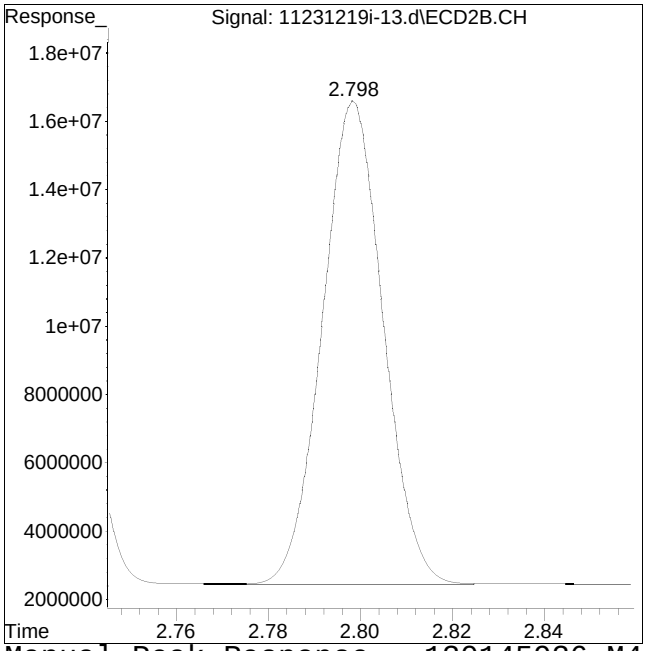
Original Peak Response = 330041090 Manual Peak Response = 329808286 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-13.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 3:47 pm Instrument : Pest 11
Sample : cicvpest,42e,,pp 11430 L0.Quant Date : 12/20/2023 6:31 pm

Compound #44: beta-BHC #2



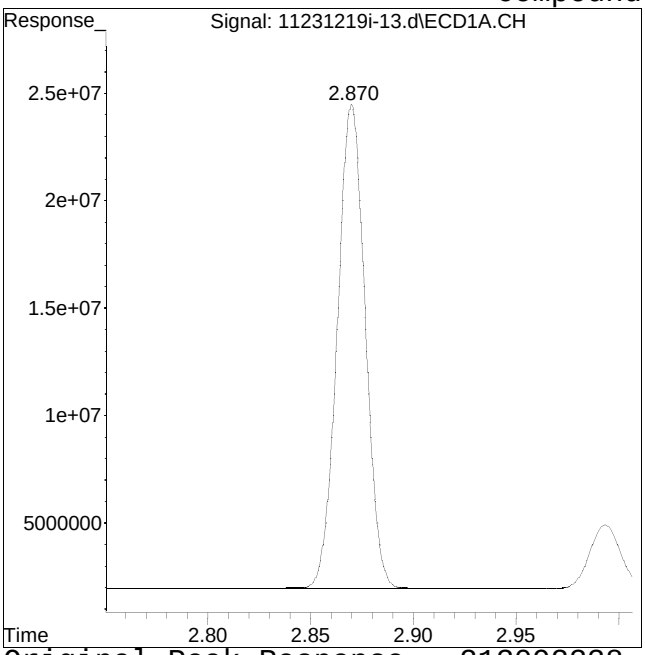


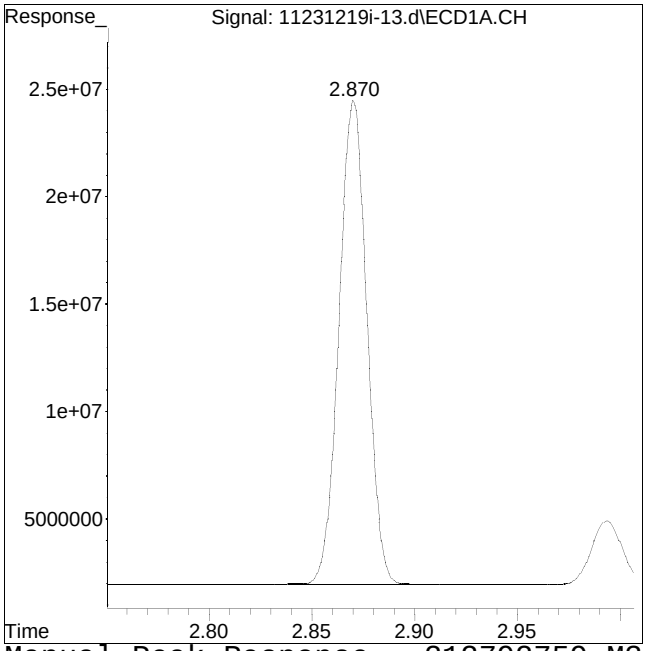
Original Peak Response = 129372126 Manual Peak Response = 130145936 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-13.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 3:47 pm Instrument : Pest 11
Sample : cicvpest,42e,,pp 11430 L0.Quant Date : 12/20/2023 6:31 pm

Compound #9: Aldrin



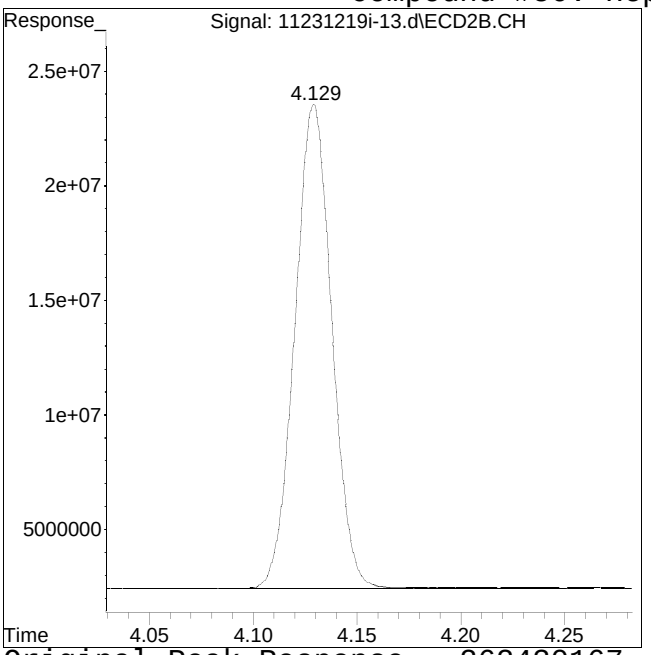


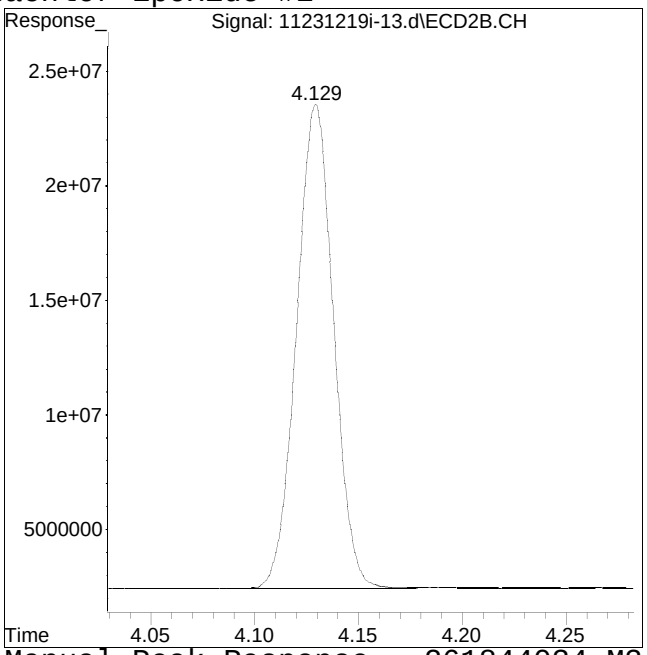
Original Peak Response = 213092338 Manual Peak Response = 212792759 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-13.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 3:47 pm Instrument : Pest 11
Sample : cicvpest,42e,,pp 11430 L0.Quant Date : 12/20/2023 6:31 pm

Compound #50: Heptachlor Epoxide #2



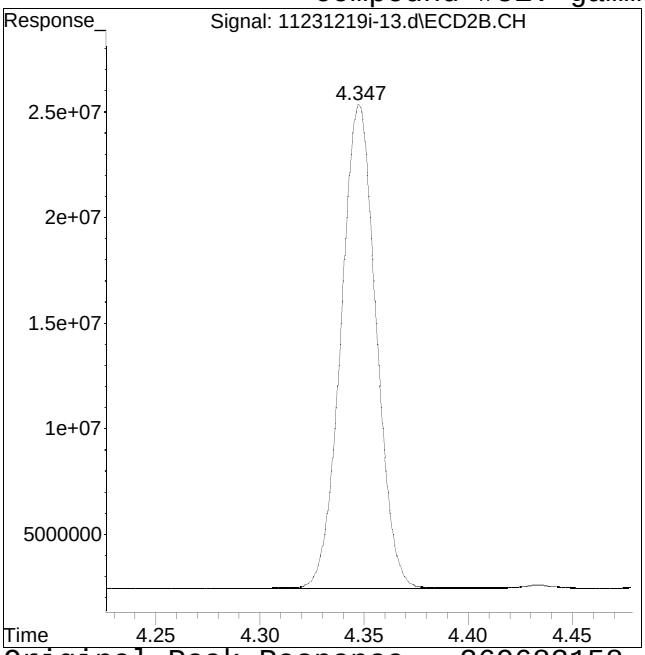


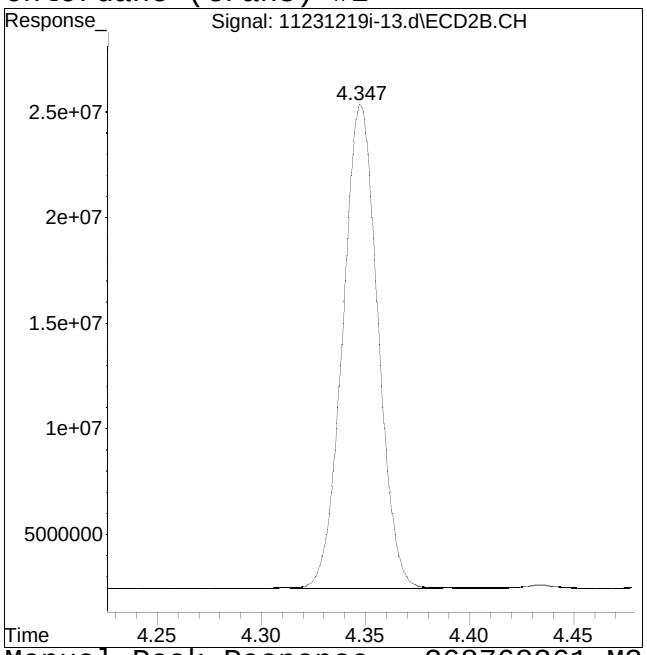
Original Peak Response = 262430167 Manual Peak Response = 261844034 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-13.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 3:47 pm Instrument : Pest 11
Sample : cicvpest,42e,,pp 11430 L0.Quant Date : 12/20/2023 6:31 pm

Compound #51: gamma-Chlordane (trans) #2



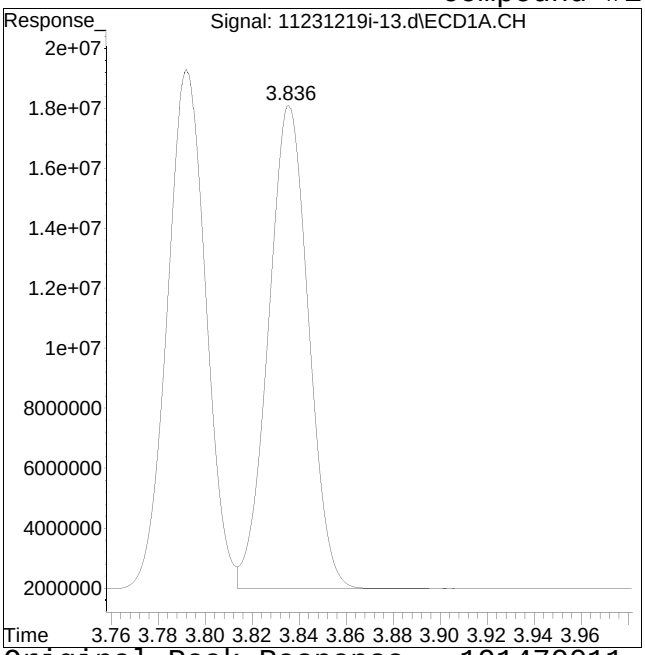


Original Peak Response = 269683158 Manual Peak Response = 268768361 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

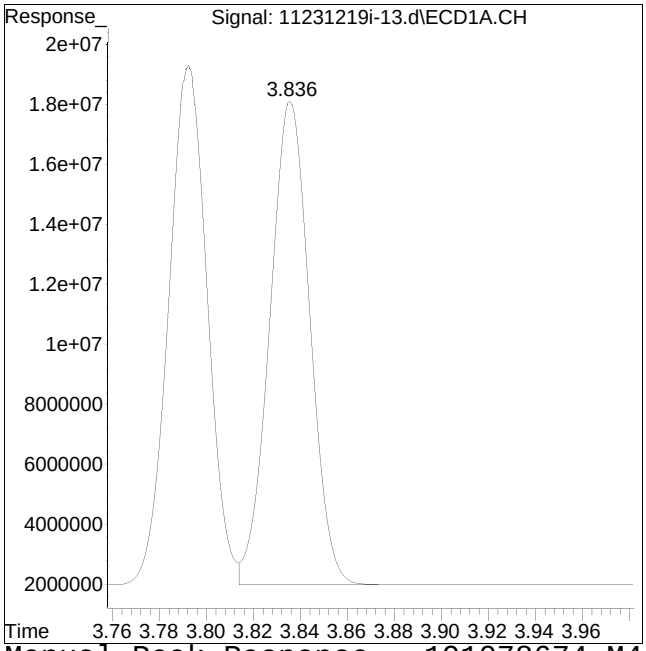
Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-13.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 3:47 pm Instrument : Pest 11
Sample : cicvpest,42e,,pp 11430 L0.Quant Date : 12/20/2023 6:31 pm

Compound #16: Endosulfan I



Original Peak Response = 191470011



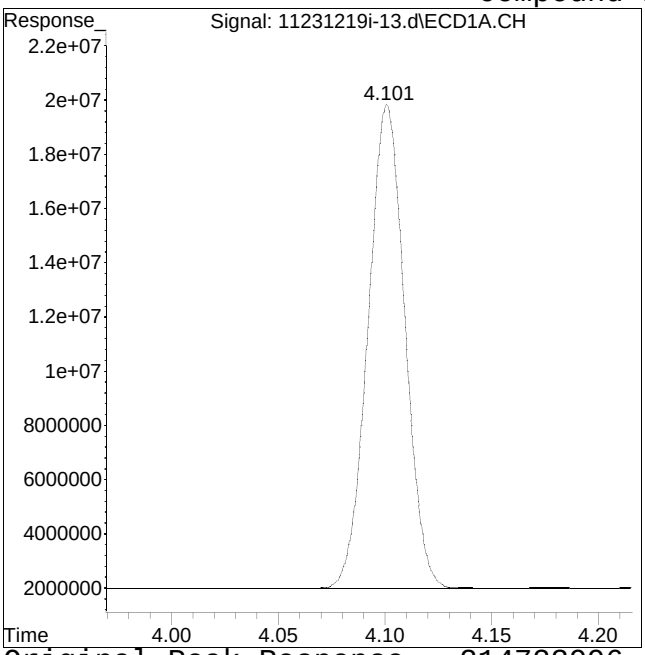
Manual Peak Response = 191078674 M4

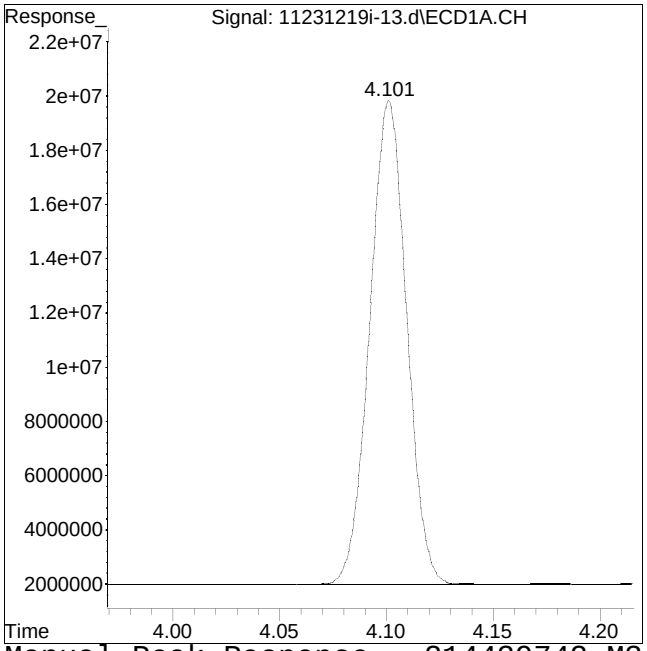
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-13.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 3:47 pm Instrument : Pest 11
Sample : cicvpest,42e,,pp 11430 L0.Quant Date : 12/20/2023 6:31 pm

Compound #17: Dieldrin



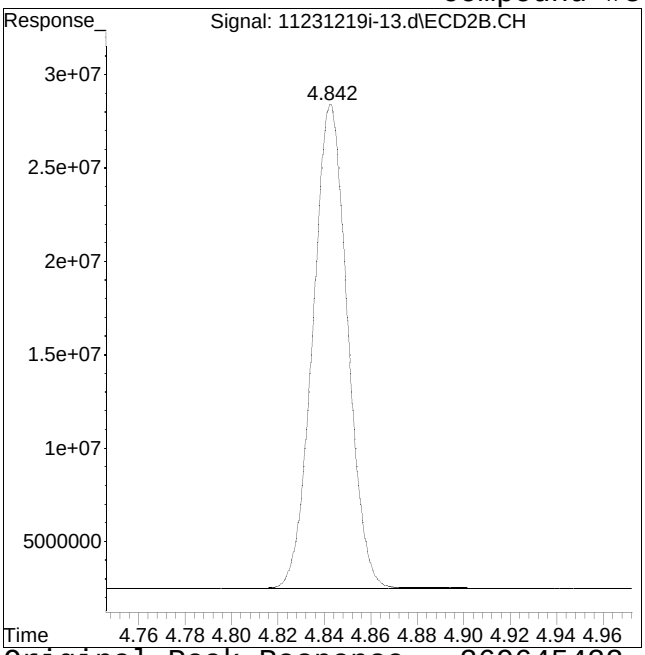


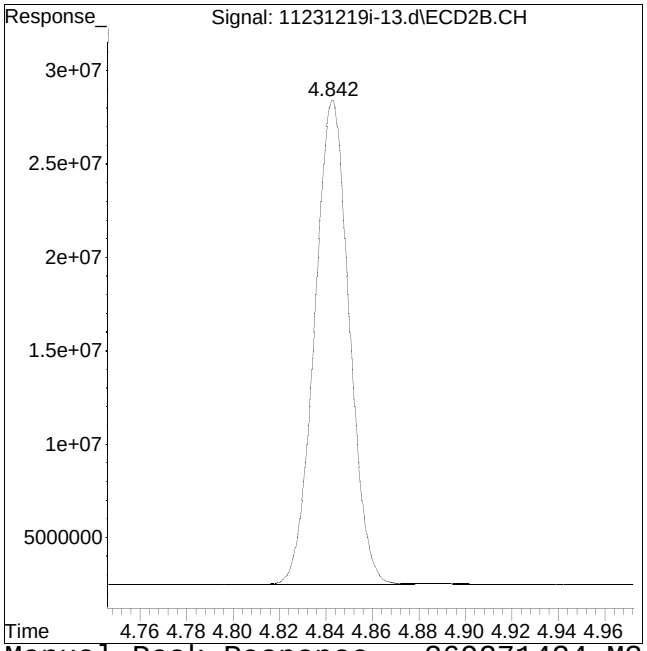
Original Peak Response = 214723996 Manual Peak Response = 214439742 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-13.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 3:47 pm Instrument : Pest 11
Sample : cicvpest,42e,,pp 11430 L0.Quant Date : 12/20/2023 6:31 pm

Compound #55: Dieldrin #2



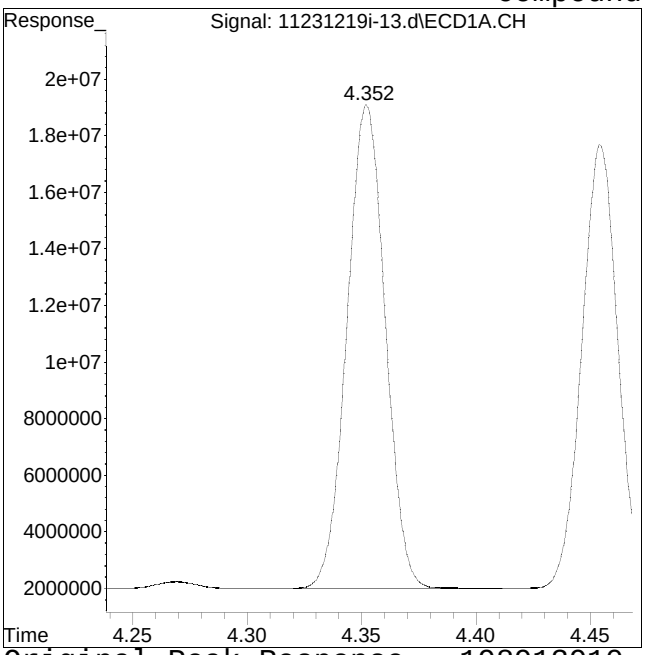


Original Peak Response = 269645422 Manual Peak Response = 269271424 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

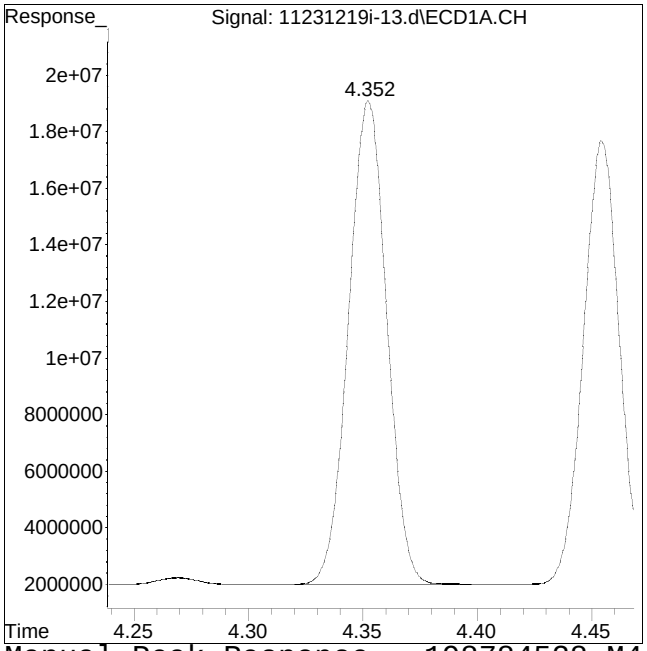
Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-13.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 3:47 pm Instrument : Pest 11
Sample : cicvpest,42e,,pp 11430 L0.Quant Date : 12/20/2023 6:31 pm

Compound #18: Endrin



Original Peak Response = 198913910



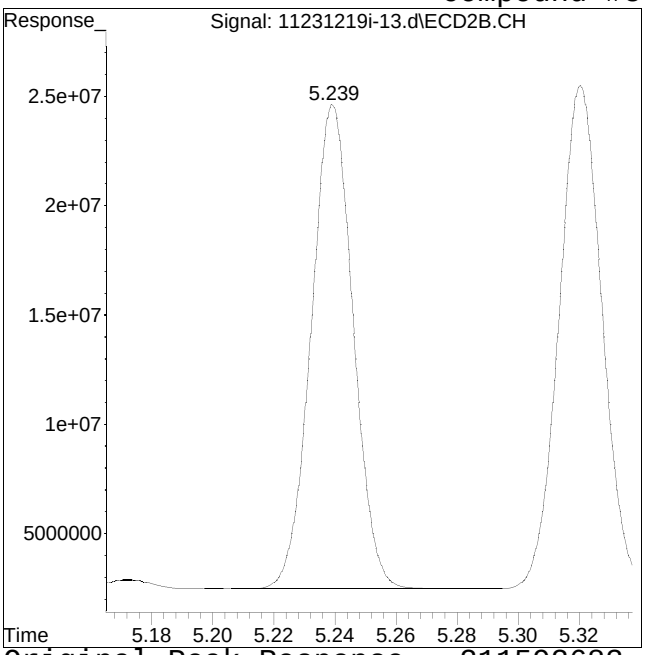
Manual Peak Response = 198784528 M4

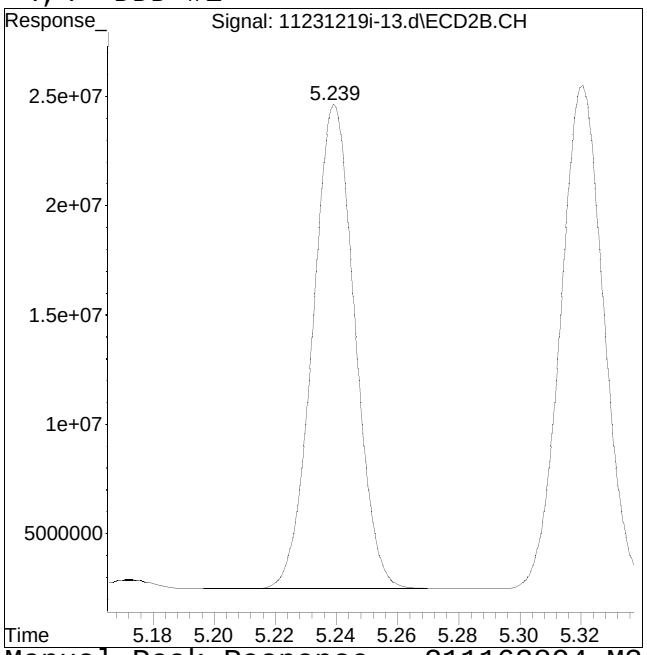
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-13.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 3:47 pm Instrument : Pest 11
Sample : cicvpest,42e,,pp 11430 L0.Quant Date : 12/20/2023 6:31 pm

Compound #57: 4,4'-DDD #2



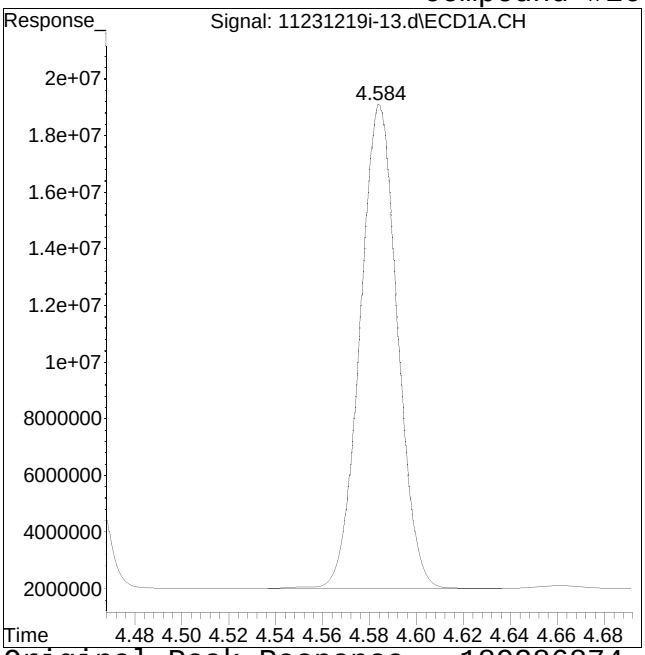


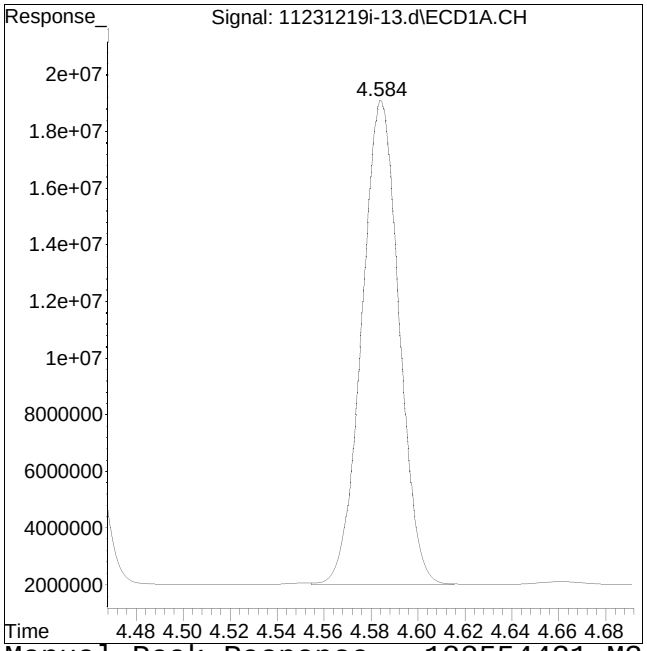
Original Peak Response = 211592683 Manual Peak Response = 211163894 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-13.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 3:47 pm Instrument : Pest 11
Sample : cicvpest,42e,,pp 11430 L0.Quant Date : 12/20/2023 6:31 pm

Compound #20: Endosulfan II



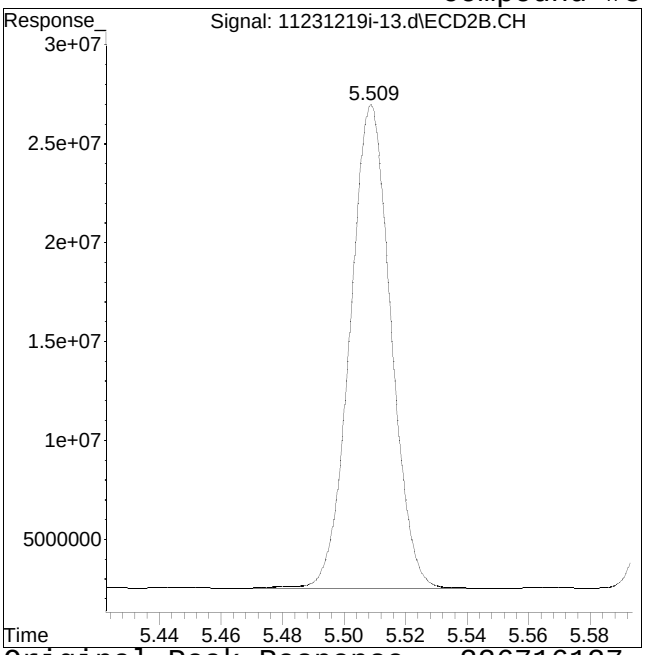


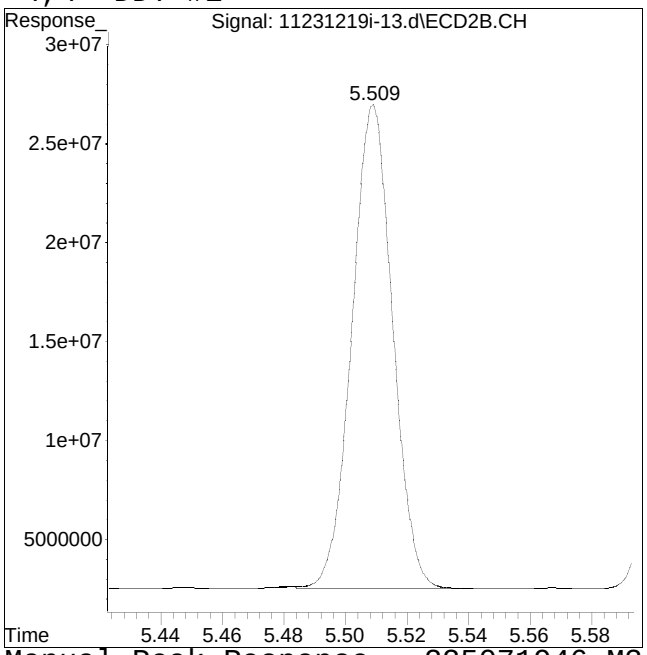
Original Peak Response = 189286874 Manual Peak Response = 188554431 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-13.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 3:47 pm Instrument : Pest 11
Sample : cicvpest,42e,,pp 11430 L0.Quant Date : 12/20/2023 6:31 pm

Compound #59: 4,4'-DDT #2



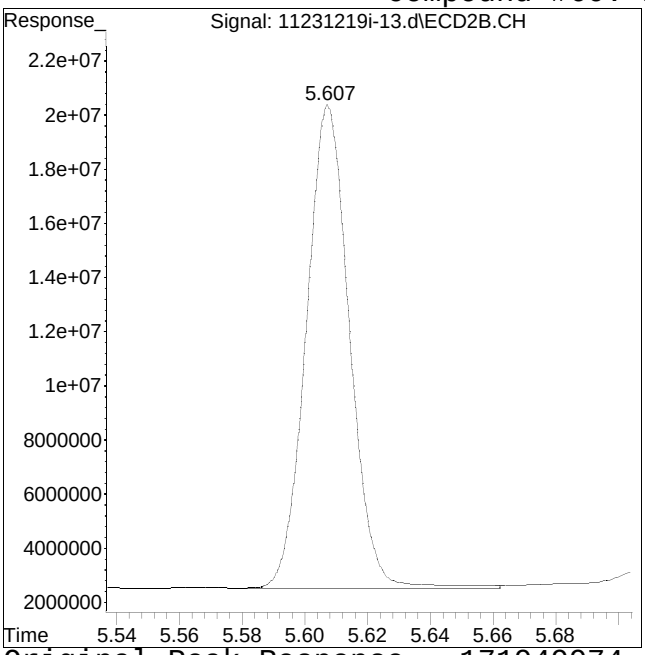


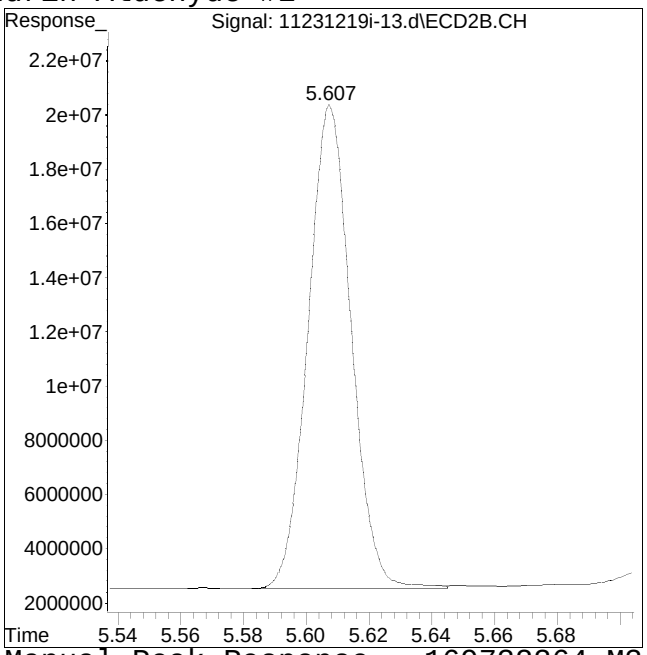
Original Peak Response = 226716127 Manual Peak Response = 225071946 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-13.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 3:47 pm Instrument : Pest 11
Sample : cicvpest,42e,,pp 11430 L0.Quant Date : 12/20/2023 6:31 pm

Compound #60: Endrin Aldehyde #2



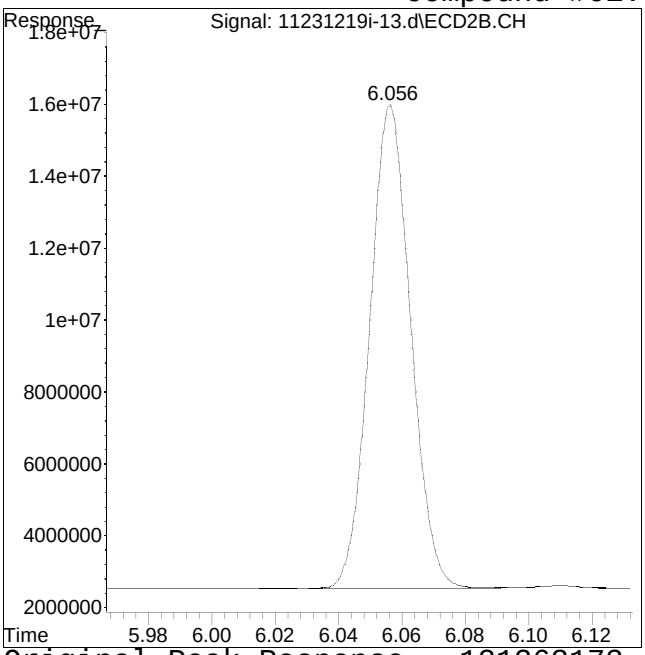


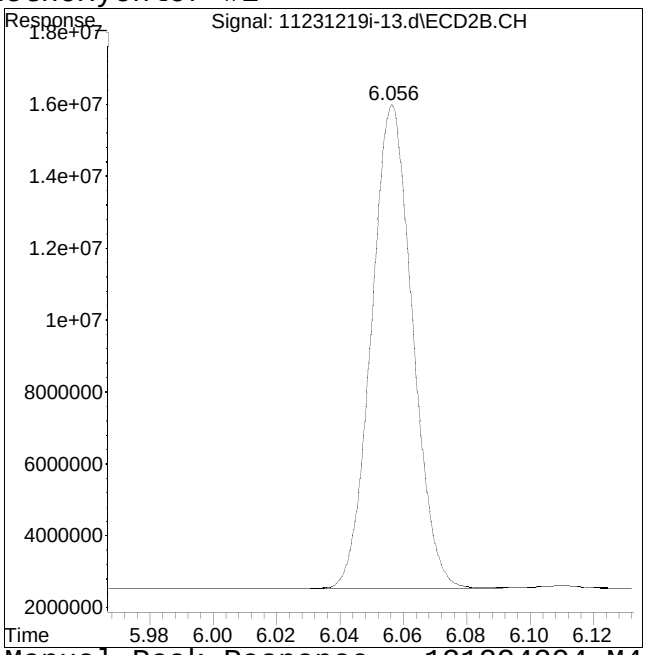
Original Peak Response = 171949974 Manual Peak Response = 169732364 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-13.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 3:47 pm Instrument : Pest 11
Sample : cicvpest,42e,,pp 11430 L0.Quant Date : 12/20/2023 6:31 pm

Compound #61: Methoxychlor #2



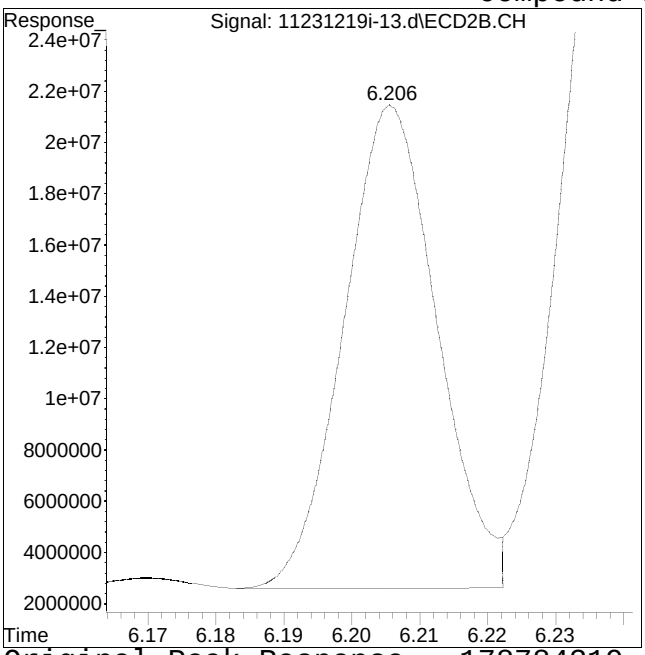


Original Peak Response = 121363173 Manual Peak Response = 121224294 M4
M4 = Poor automated baseline construction.

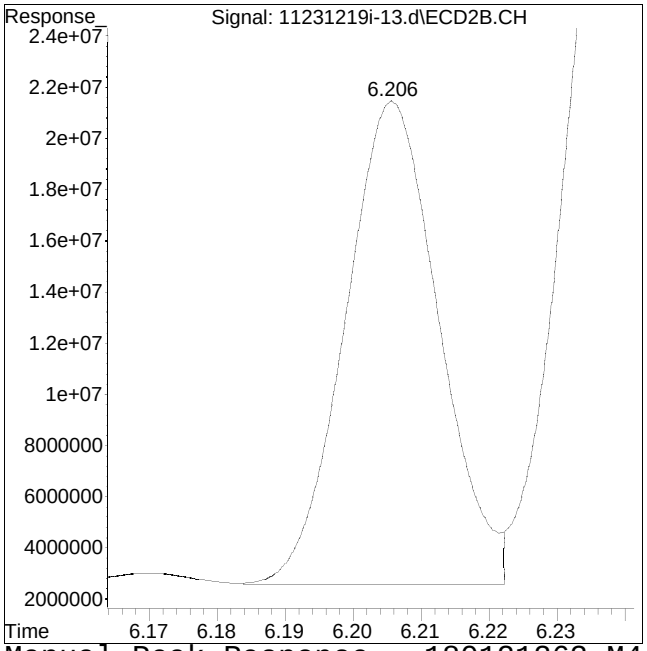
Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-13.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 3:47 pm Instrument : Pest 11
Sample : cicvpest,42e,,pp 11430 L0.Quant Date : 12/20/2023 6:31 pm

Compound #62: Mirex #2



Original Peak Response = 178784319



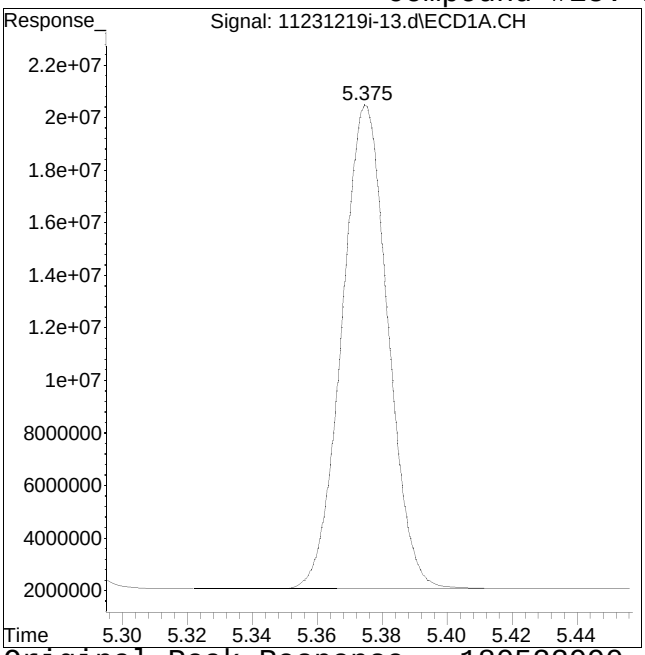
Manual Peak Response = 180121263 M4

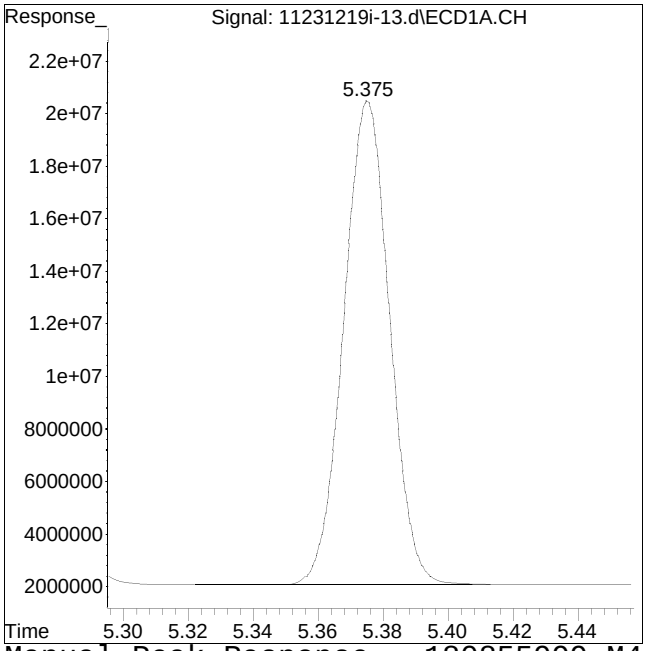
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-13.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 3:47 pm Instrument : Pest 11
Sample : cicvpest,42e,,pp 11430 L0.Quant Date : 12/20/2023 6:31 pm

Compound #25: Endosulfan Sulfate



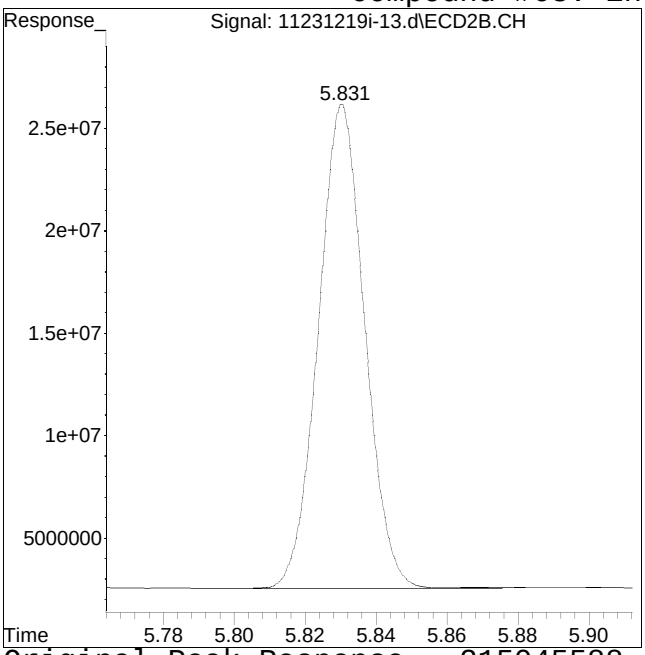


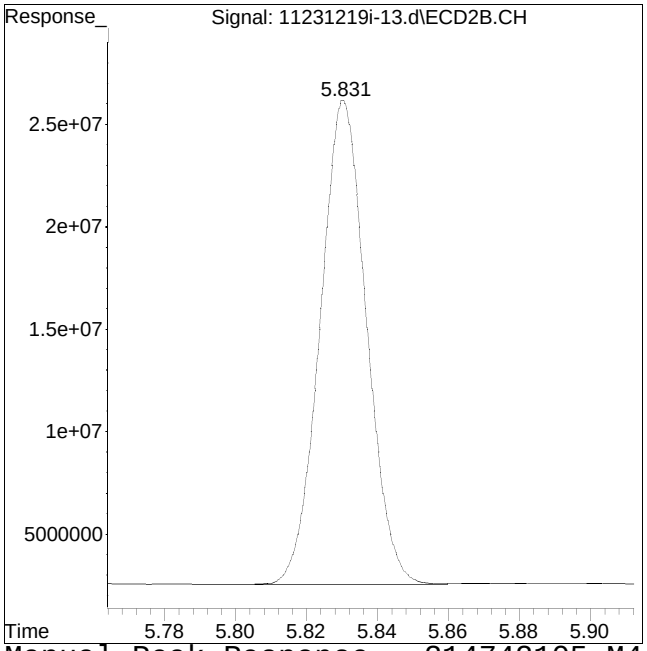
Original Peak Response = 180522990 Manual Peak Response = 180855999 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-13.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 3:47 pm Instrument : Pest 11
Sample : cicvpest,42e,,pp 11430 L0.Quant Date : 12/20/2023 6:31 pm

Compound #63: Endosulfan Sulfate #2



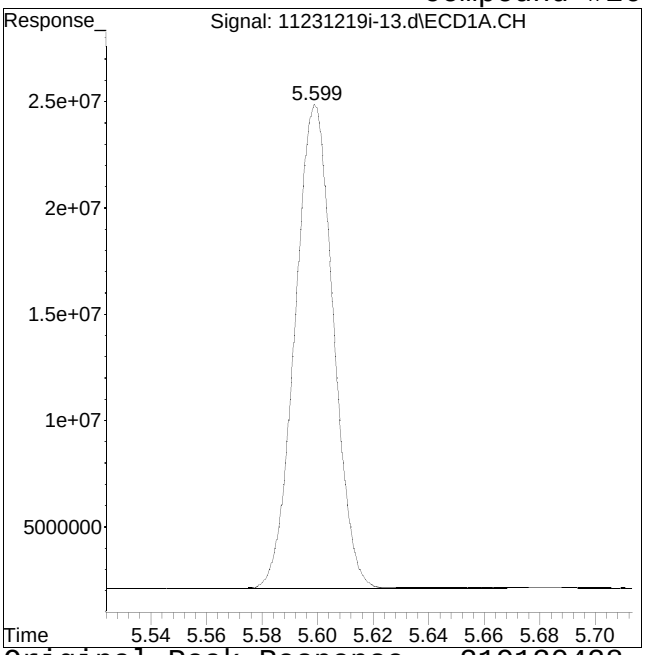


Original Peak Response = 215045588 Manual Peak Response = 214742105 M4
M4 = Poor automated baseline construction.

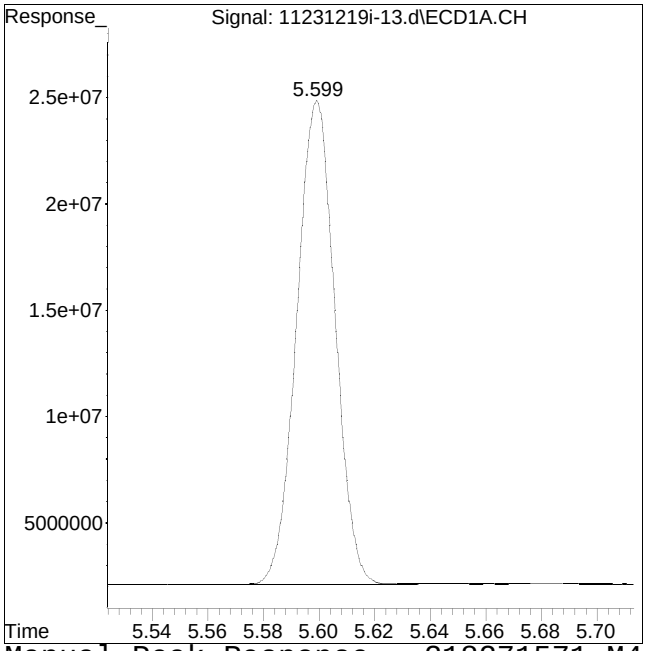
Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-13.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 3:47 pm Instrument : Pest 11
Sample : cicvpest,42e,,pp 11430 L0.Quant Date : 12/20/2023 6:31 pm

Compound #26: Endrin Ketone



Original Peak Response = 219130428



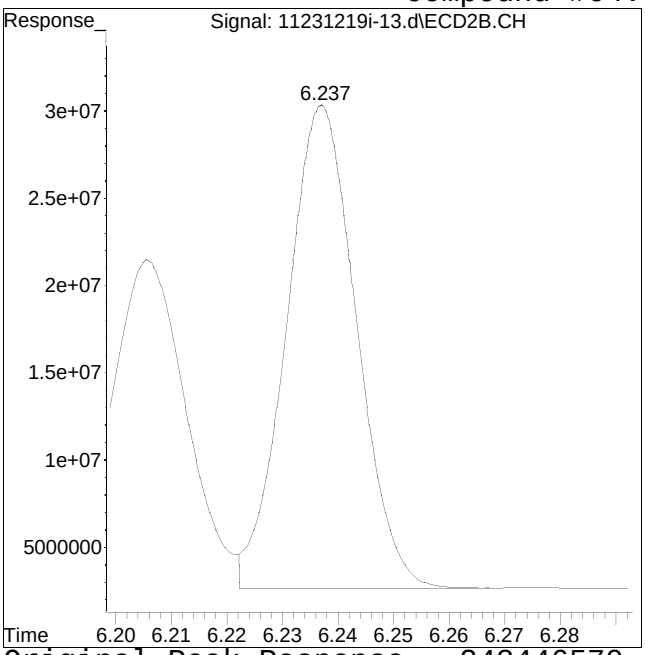
Manual Peak Response = 218271571 M4

M4 = Poor automated baseline construction.

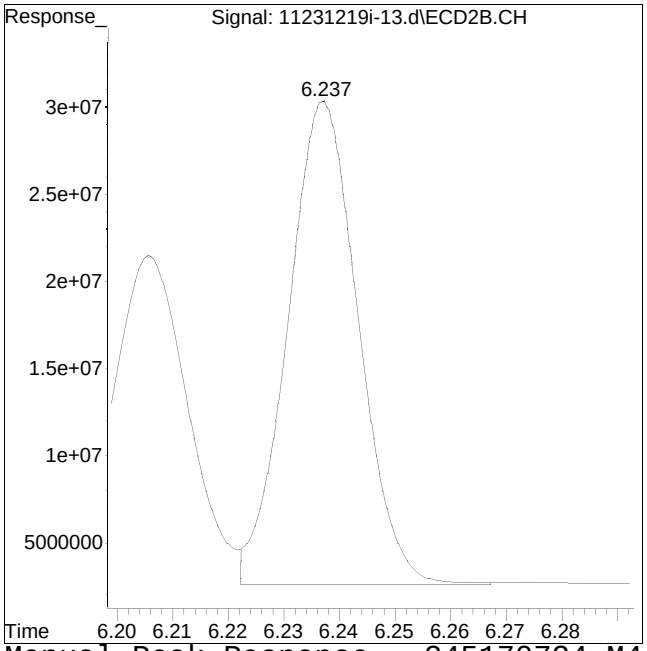
Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-13.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 3:47 pm Instrument : Pest 11
Sample : cicvpest,42e,,pp 11430 L0.Quant Date : 12/20/2023 6:31 pm

Compound #64: Endrin Ketone #2



Original Peak Response = 243446570

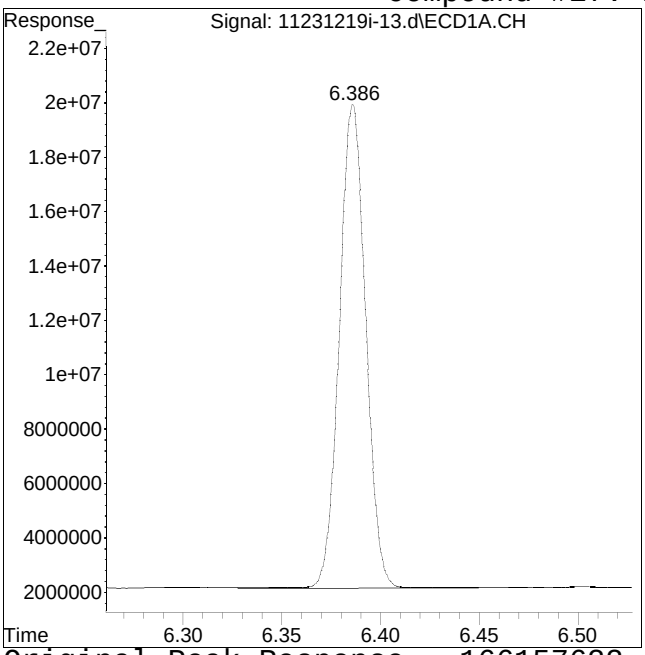


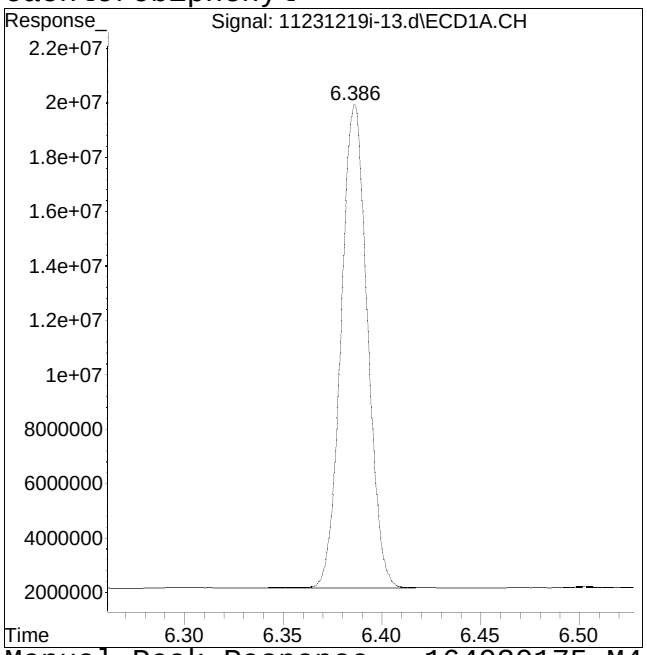
Manual Peak Response = 245170724 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-13.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 3:47 pm Instrument : Pest 11
Sample : cicvpest,42e,,pp 11430 L0.Quant Date : 12/20/2023 6:31 pm

Compound #27: Decachlorobiphenyl



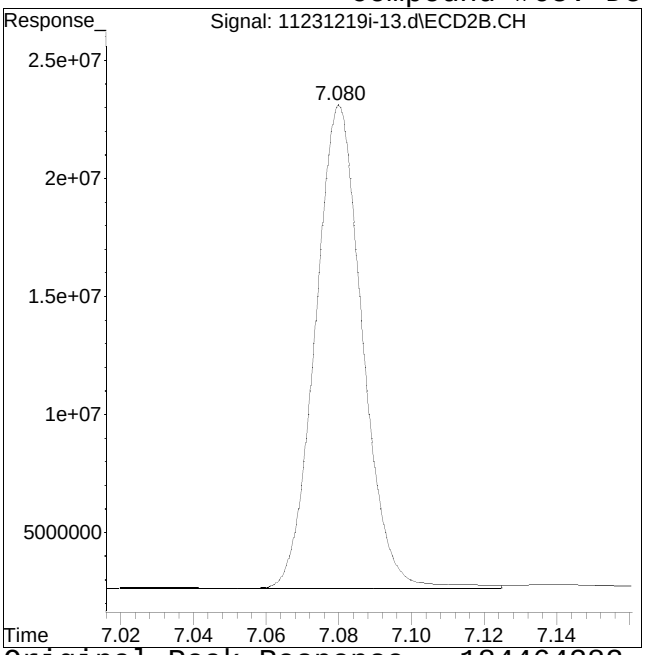


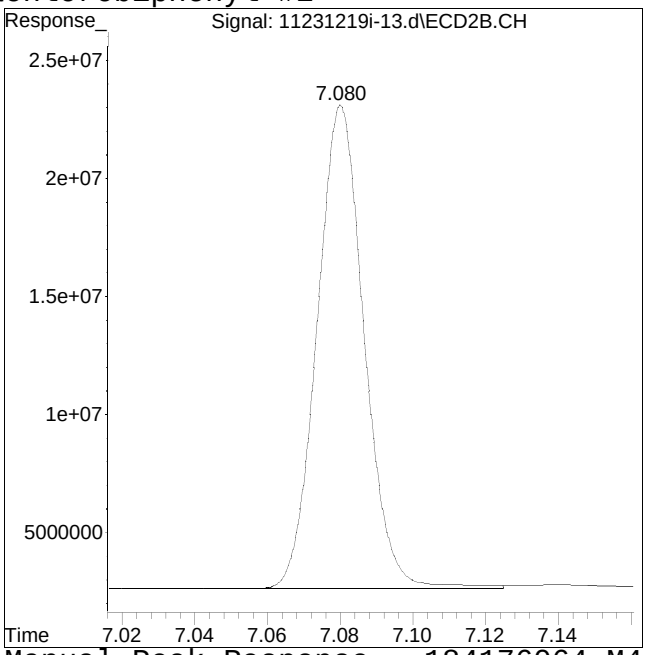
Original Peak Response = 166157622 Manual Peak Response = 164930175 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-13.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 3:47 pm Instrument : Pest 11
Sample : cicvpest,42e,,pp 11430 L0.Quant Date : 12/20/2023 6:31 pm

Compound #65: Decachlorobiphenyl #2





Original Peak Response = 184464382 Manual Peak Response = 184176064 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2023\231219ICAL\
Data File : 11231219i-14.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 19 Dec 2023 3:59 pm
Operator : PEST11:ejl
Sample : il3chlor,42e,,pp 11325 L0.01
Misc : WG1866910,ical (Sig #1); ical (Sig #2)
ALS Vial : 14 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 20 18:38:59 2023
Quant Method : I:\PEST\Pest11\2023\231219ICAL\pest11_12_19_23_ugL_ICAL.M
Quant Title : pest
QLast Update : Wed Dec 20 18:38:27 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	1.375	1.481	86011785	117.2E6	25.000M4	25.000M4
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
	Target Compounds						
3) t	Hexachlorobe	0.000	0.000	0	0	N.D.	N.D.
4) t	alpha-BHC	0.000	0.000	0	0	N.D.	N.D.
5) t	gamma-BHC (l	0.000	0.000	0	0	N.D.	N.D.
6) t	beta-BHC	0.000	0.000	0	0	N.D.	N.D.
7) t	delta-BHC	0.000	0.000	0	0	N.D.	N.D.
8) t	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9) t	Aldrin	0.000	0.000	0	0	N.D.	N.D.
10) t	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11) t	Chlorpyrifos	0.000	0.000	0	0	N.D.	N.D.
12) t	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13) t	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14) t	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15) t	4,4'-DDE	0.000	0.000	0	0	N.D.	N.D.
16) t	Endosulfan I	0.000	0.000	0	0	N.D.	N.D.
17) t	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18) t	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19) t	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21) t	4,4'-DDT	0.000	0.000	0	0	N.D.	N.D.
22) t	Endrin Aldeh	0.000	0.000	0	0	N.D.	N.D.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2023\231219ICAL\
Data File : 11231219i-14.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 19 Dec 2023 3:59 pm
Operator : PEST11:ejl
Sample : il3chlor,42e,,pp 11325 L0.01
Misc : WG1866910,ical (Sig #1); ical (Sig #2)
ALS Vial : 14 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 20 18:38:59 2023
Quant Method : I:\PEST\Pest11\2023\231219ICAL\pest11_12_19_23_ugL_ICAL.M
Quant Title : pest
QLast Update : Wed Dec 20 18:38:27 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
23) t	Methoxychlor	0.000	0.000	0	0	N.D.	N.D.
24) t	Mirex	0.000	0.000	0	0	N.D.	N.D.
25) t	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26) t	Endrin Keton	0.000	0.000	0	0	N.D.	N.D.
29) l1	chlordane-1	2.555	3.009	1434092	2239537	11.213	12.801M4
30) l1	chlordane-3	2.986	3.645	1862509	2713140	11.991	13.761M4
31) l1	chlordane-4	3.557	4.347	5887732	7749553	11.369	12.057
32) l1	chlordane-5	3.689	4.507	9151889	6273226	11.359	12.319
Sum	chlordane-1			18336222	18975457	NoCal	NoCal D
Average	chlordane-1					11.483	12.734
34) l2	toxaphene-2	0.000	0.000	0	0	N.D.	N.D.
35) l2	toxaphene-3	0.000	0.000	0	0	N.D.	N.D.
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D.	N.D.
Sum	toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000

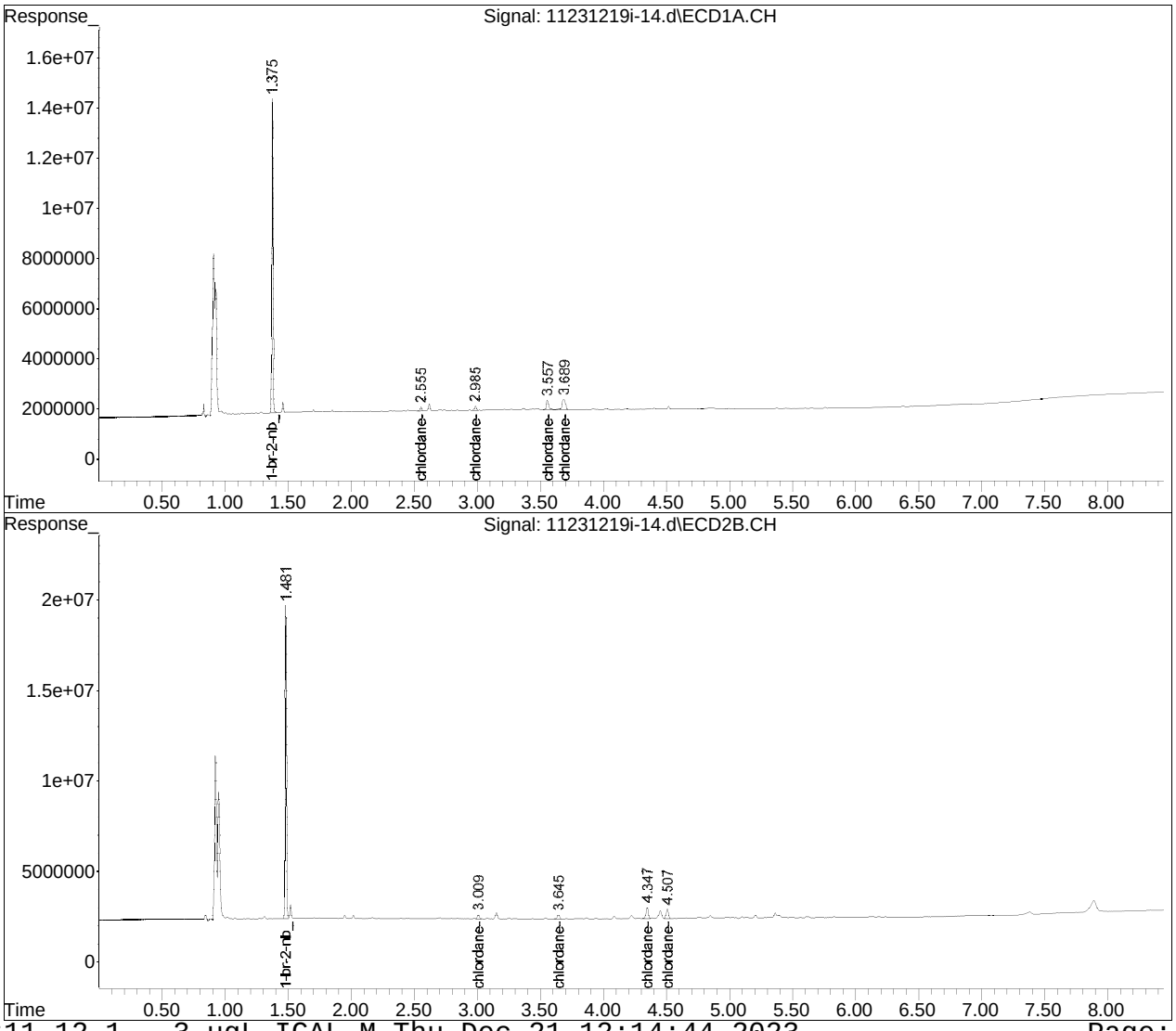
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest11\2023\231219ICAL\
Data File : 11231219i-14.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 19 Dec 2023 3:59 pm
Operator : PEST11:ejl
Sample : il3chlor,42e,,pp 11325 L0.01
Misc : WG1866910,ical (Sig #1); ical (Sig #2)
ALS Vial : 14 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 20 18:38:59 2023
Quant Method : I:\PEST\Pest11\2023\231219ICAL\pest11_12_19_23_ugL_ICAL.M
Quant Title : pest
QLast Update : Wed Dec 20 18:38:27 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

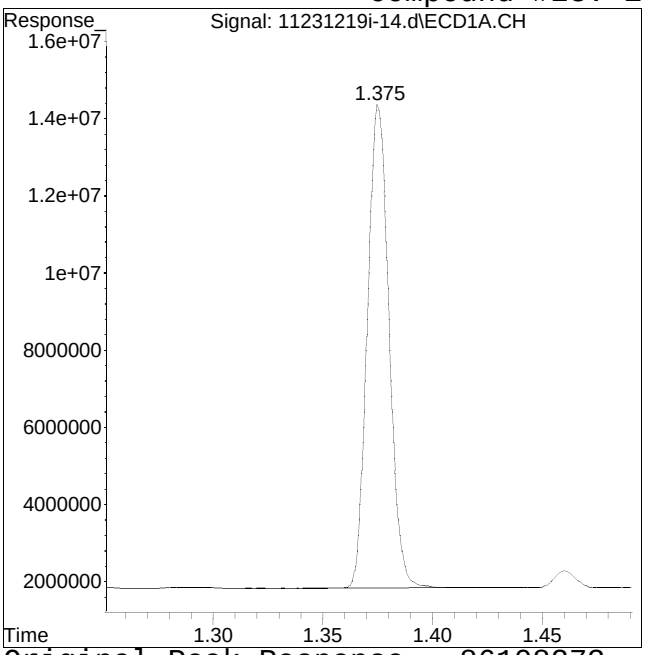
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



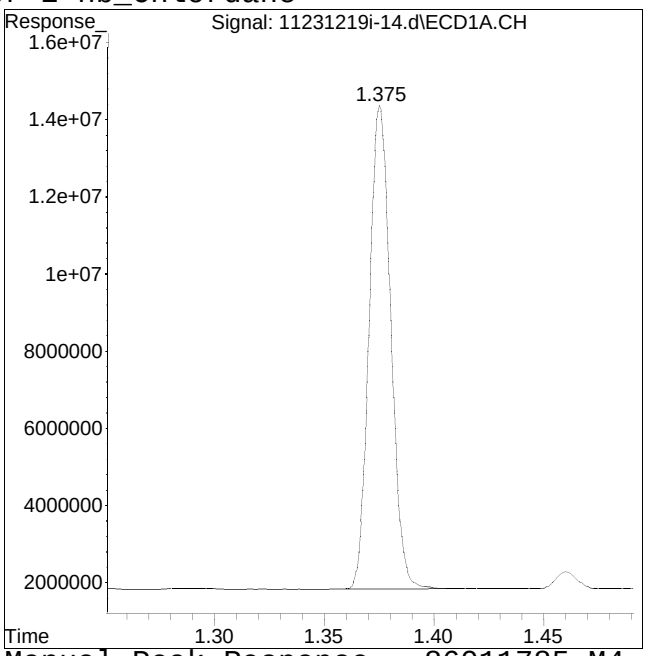
Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-14.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 3:59 pm Instrument : Pest 11
Sample : il3chlor,42e,,pp 11325 L0.Quant Date : 12/20/2023 6:38 pm

Compound #28: 1-br-2-nb_Chlordane



Original Peak Response = 86108273



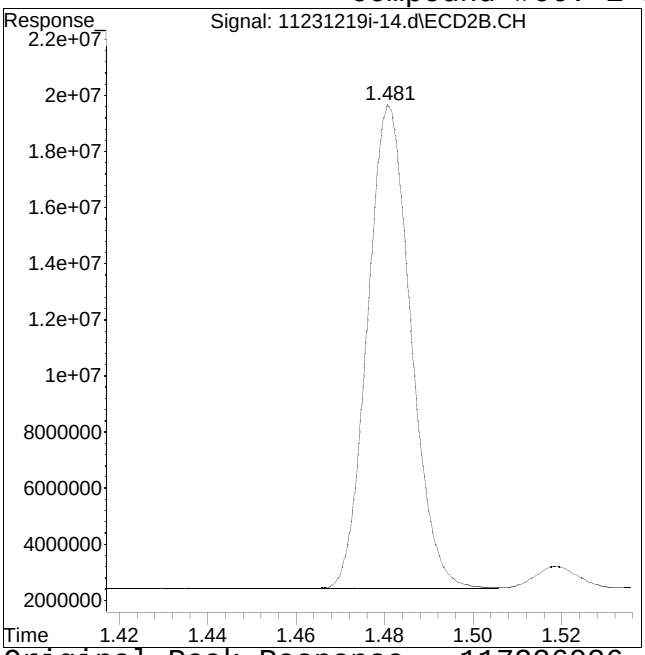
Manual Peak Response = 86011785 M4

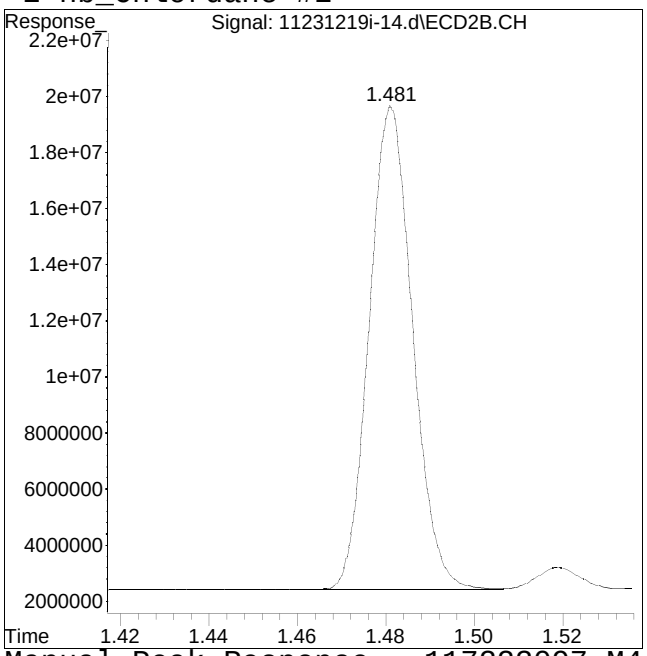
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-14.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 3:59 pm Instrument : Pest 11
Sample : il3chlor,42e,,pp 11325 L0.Quant Date : 12/20/2023 6:38 pm

Compound #66: 1-br-2-nb_Chlordane #2



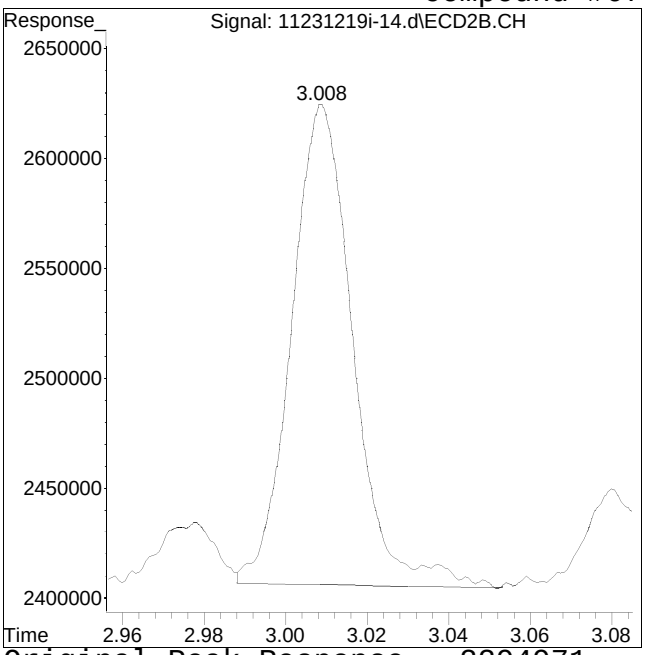


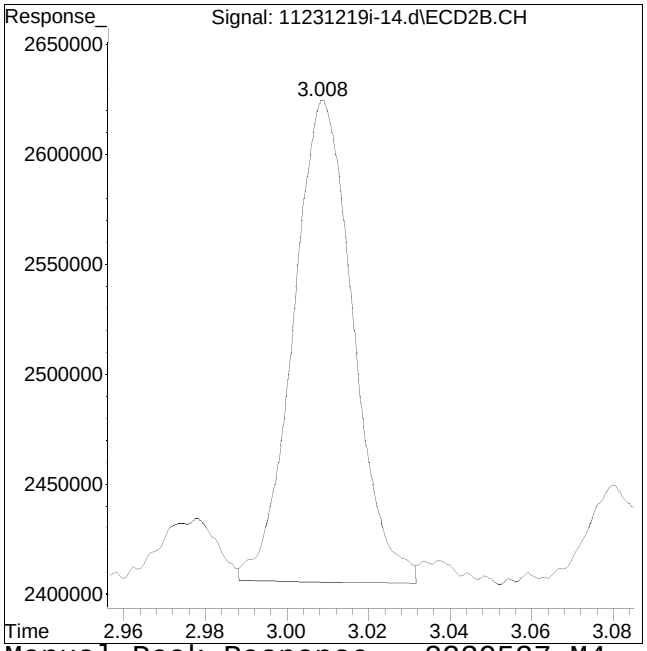
Original Peak Response = 117226926 Manual Peak Response = 117223097 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-14.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 3:59 pm Instrument : Pest 11
Sample : il3chlor,42e,,pp 11325 L0.Quant Date : 12/20/2023 6:38 pm

Compound #67: chlordane-1 #2



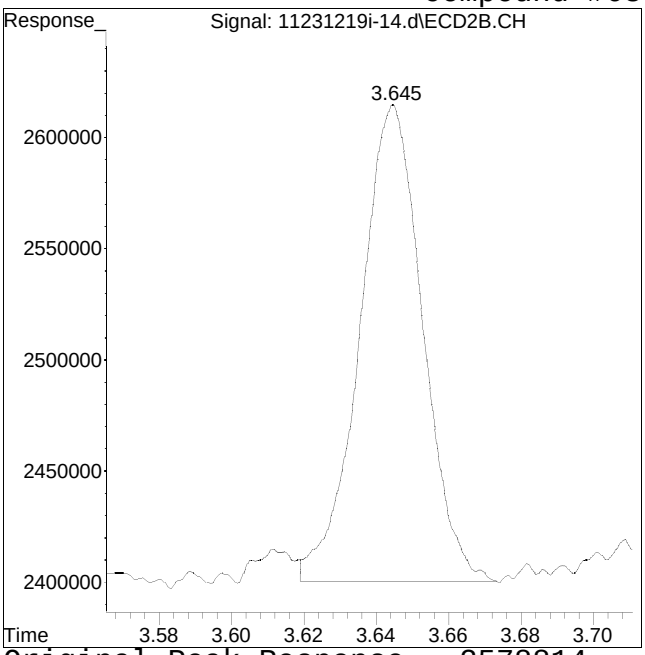


Original Peak Response = 2294971 Manual Peak Response = 2239537 M4
M4 = Poor automated baseline construction.

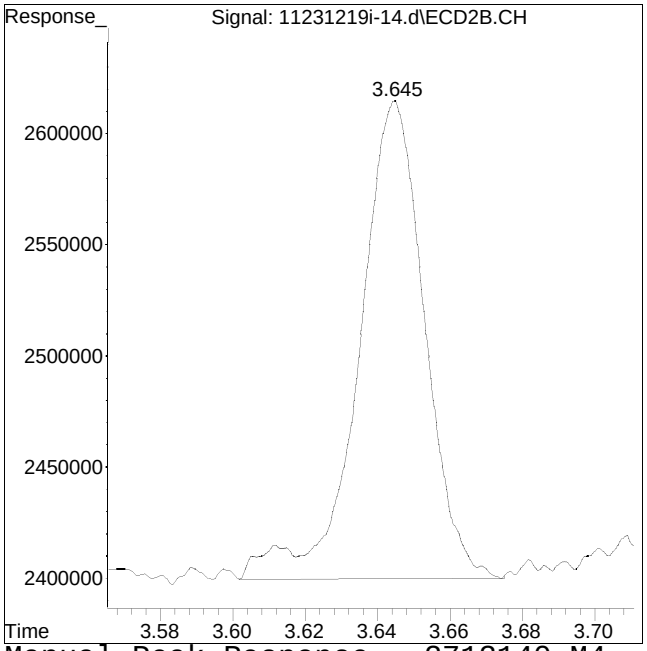
Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-14.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 3:59 pm Instrument : Pest 11
Sample : il3chlor,42e,,pp 11325 L0.Quant Date : 12/20/2023 6:38 pm

Compound #68: chlordane-3 #2



Original Peak Response = 2578814



Manual Peak Response = 2713140 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2023\231219ICAL\
Data File : 11231219i-15.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 19 Dec 2023 4:10 pm
Operator : PEST11:ejl
Sample : il4chlor,42e,,pp 11324 L0.02
Misc : WG1866910,ical (Sig #1); ical (Sig #2)
ALS Vial : 15 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 20 18:38:08 2023
Quant Method : I:\PEST\Pest11\2023\231219ICAL\pest11_12_19_23_ugL_ICAL.M
Quant Title : pest
QLast Update : Wed Dec 20 18:37:33 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	1.376	1.482	88184277	119.5E6	25.000M4	25.000
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
	Target Compounds						
3) t	Hexachlorobe	0.000	0.000	0	0	N.D.	N.D.
4) t	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5) t	gamma-BHC (l	0.000	0.000	0	0	N.D.	N.D.
6) t	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7) t	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8) t	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9) t	Aldrin	0.000	0.000	0	0	N.D.	N.D.
10) t	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11) t	Chlorpyrifos	0.000	0.000	0	0	N.D.	N.D.
12) t	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13) t	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14) t	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15) t	4,4'-DDE	0.000	0.000	0	0	N.D.	N.D.
16) t	Endosulfan I	0.000	0.000	0	0	N.D.	N.D.
17) t	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18) t	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19) t	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21) t	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22) t	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d
23) t	Methoxychlor	0.000	0.000	0	0	N.D.	N.D.

Data Path : I:\PEST\Pest11\2023\231219ICAL\
Data File : 11231219i-15.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 19 Dec 2023 4:10 pm
Operator : PEST11:ejl
Sample : il4chlor,42e,,pp 11324 L0.02
Misc : WG1866910,ical (Sig #1); ical (Sig #2)
ALS Vial : 15 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 20 18:38:08 2023
Quant Method : I:\PEST\Pest11\2023\231219ICAL\pest11_12_19_23_ugL_ICAL.M
Quant Title : pest
QLast Update : Wed Dec 20 18:37:33 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
24) t	Mirex	0.000	0.000	0	0	N.D.	N.D.
25) t	Endosulfan S	0.000	0.000	0	0	N.D.	N.D.
26) t	Endrin Keton	0.000	0.000	0	0	N.D.	N.D.
29) l1	chlordane-1	2.555	3.010	2877861	4431005	22.382	26.104M3
30) l1	chlordane-3	2.986	3.646	3812349	5284637	24.922	28.052
31) l1	chlordane-4	3.558	4.348	11361304	15349111	21.701	24.253
32) l1	chlordane-5	3.689	4.507	17744080	12277956	21.804	24.543
Sum	chlordane-1			35795594	37342709	NoCal	NoCal D
Average	chlordane-1					22.702	25.738
34) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D.	N.D.
Sum	toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000

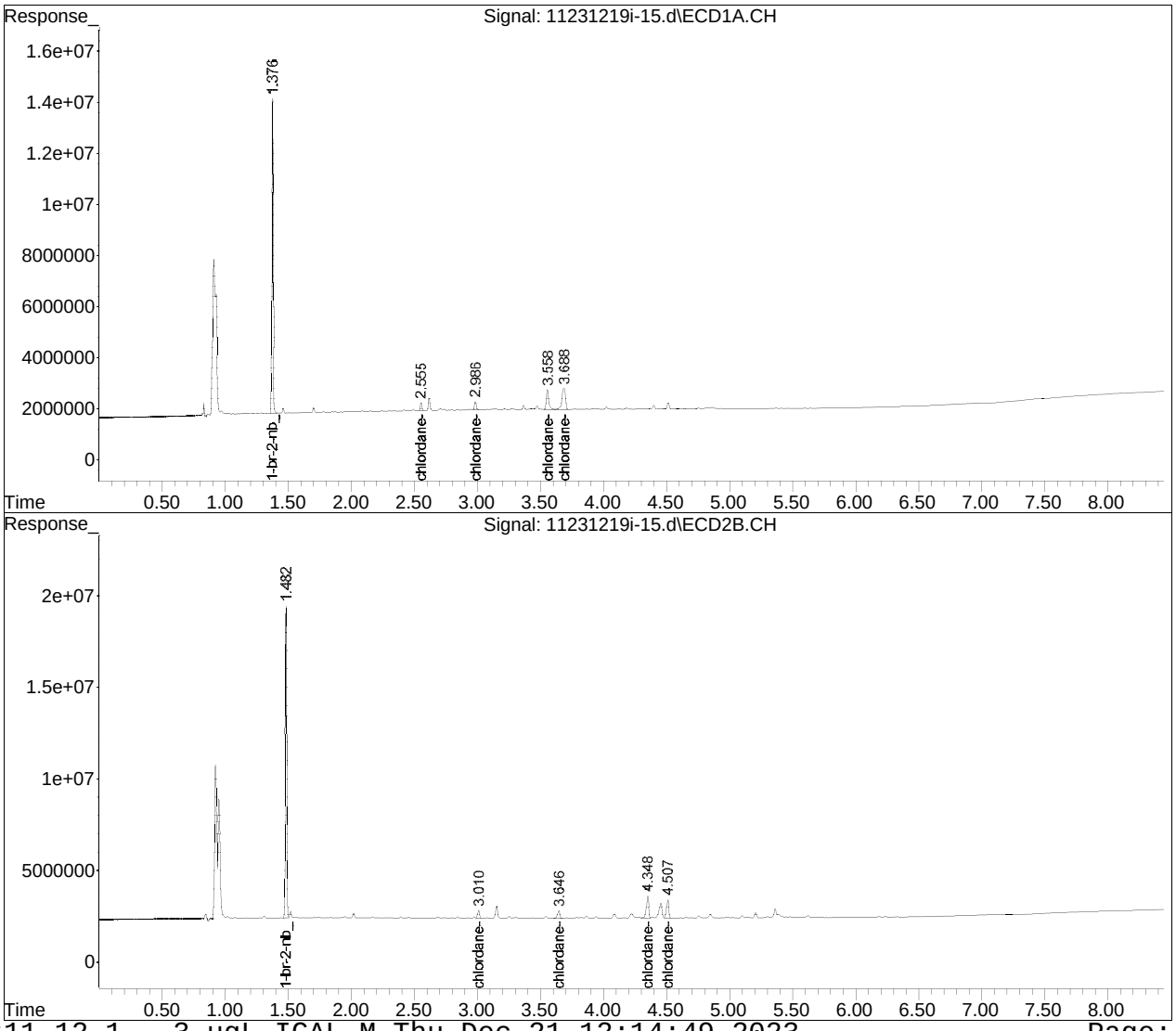
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest11\2023\231219ICAL\
Data File : 11231219i-15.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 19 Dec 2023 4:10 pm
Operator : PEST11:ejl
Sample : il4chlor,42e,,pp 11324 L0.02
Misc : WG1866910,ical (Sig #1); ical (Sig #2)
ALS Vial : 15 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 20 18:38:08 2023
Quant Method : I:\PEST\Pest11\2023\231219ICAL\pest11_12_19_23_ugL_ICAL.M
Quant Title : pest
QLast Update : Wed Dec 20 18:37:33 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

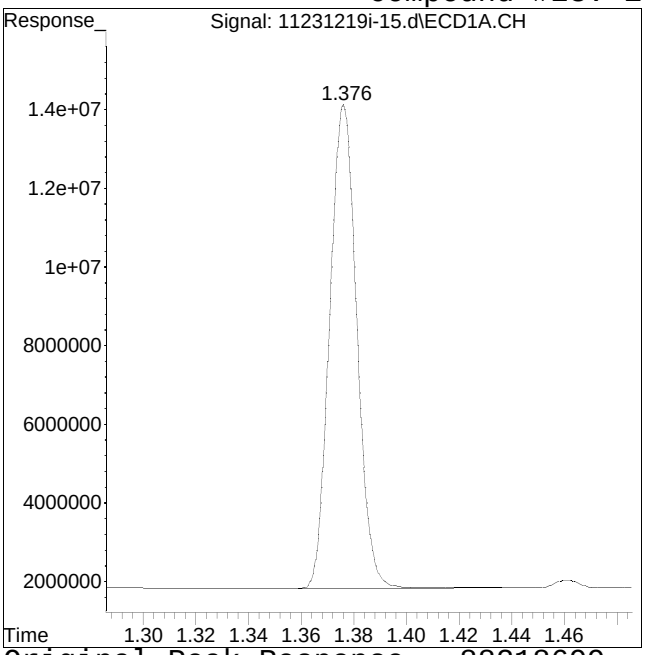
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



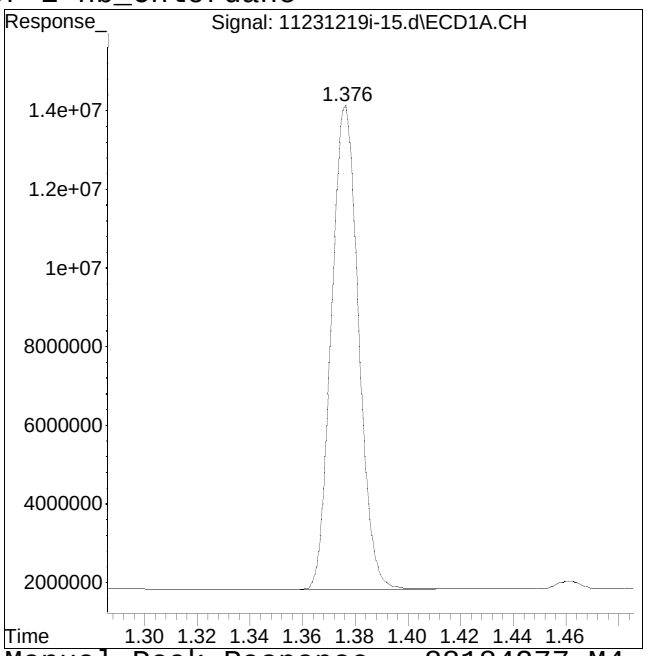
Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-15.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 4:10 pm Instrument : Pest 11
Sample : il4chlor,42e,,pp 11324 L0.Quant Date : 12/20/2023 6:37 pm

Compound #28: 1-br-2-nb_Chlordane



Original Peak Response = 88218699



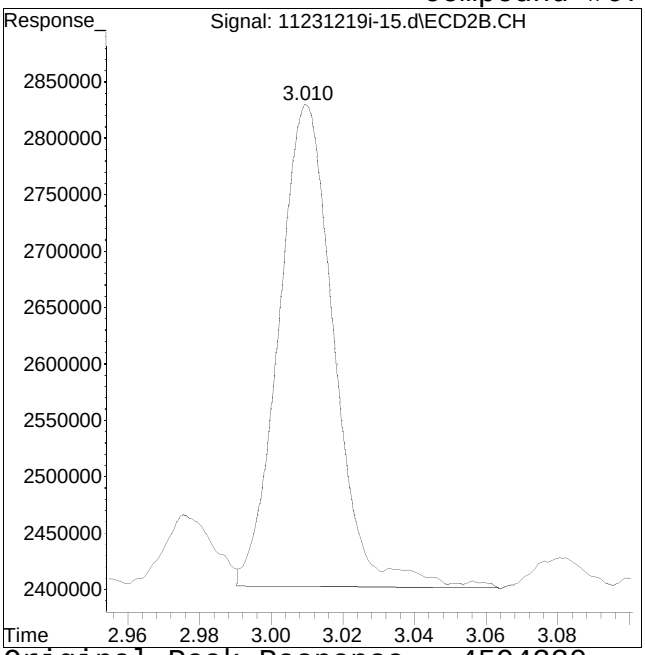
Manual Peak Response = 88184277 M4

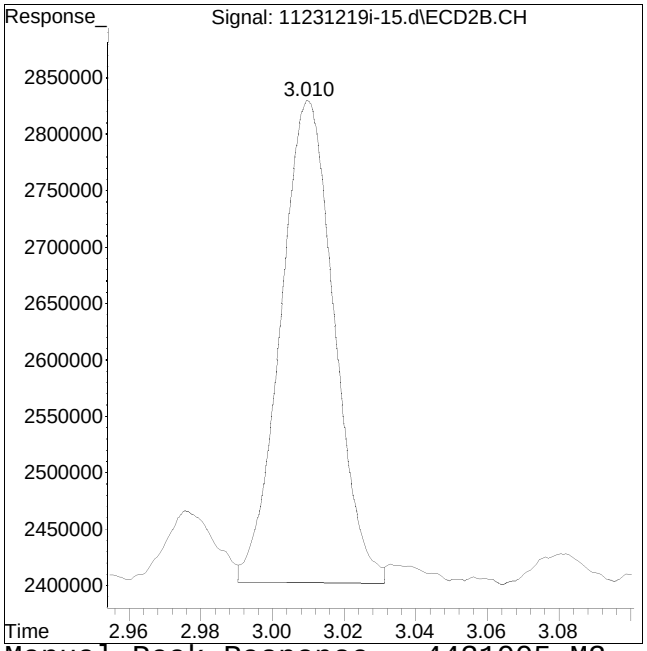
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-15.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 4:10 pm Instrument : Pest 11
Sample : il4chlor,42e,,pp 11324 L0.Quant Date : 12/20/2023 6:37 pm

Compound #67: chlordane-1 #2





Original Peak Response = 4594330 Manual Peak Response = 4431005 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2023\231219ICAL\
Data File : 11231219i-16.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 19 Dec 2023 4:22 pm
Operator : PEST11:ejl
Sample : il5chlor,42e,,pp 11323 L0.1
Misc : WG1866910,ical (Sig #1); ical (Sig #2)
ALS Vial : 16 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 20 18:37:07 2023
Quant Method : I:\PEST\Pest11\2023\231219ICAL\pest11_12_19_23_ugL_ICAL.M
Quant Title : pest
QLast Update : Wed Dec 20 18:36:46 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	1.375	1.481	87518550	119.1E6	25.000M4	25.000M4
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
	Target Compounds						
3) t	Hexachlorobe	0.000	0.000	0	0	N.D.	N.D.
4) t	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5) t	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6) t	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7) t	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8) t	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9) t	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10) t	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11) t	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12) t	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13) t	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14) t	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15) t	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17) t	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18) t	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19) t	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21) t	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22) t	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest11\2023\231219ICAL\
Data File : 11231219i-16.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 19 Dec 2023 4:22 pm
Operator : PEST11:ejl
Sample : il5chlor,42e,,pp 11323 L0.1
Misc : WG1866910,ical (Sig #1); ical (Sig #2)
ALS Vial : 16 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 20 18:37:07 2023
Quant Method : I:\PEST\Pest11\2023\231219ICAL\pest11_12_19_23_ugL_ICAL.M
Quant Title : pest
QLast Update : Wed Dec 20 18:36:46 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
23) t	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
24) t	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25) t	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26) t	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	2.555	3.010	13053853	18862963	102.888	114.849
30) l1	chlordane-3	2.986	3.645	17102799	22741485	116.335	127.934
31) l1	chlordane-4	3.557	4.348	51334124	66086631	98.504	106.085
32) l1	chlordane-5	3.688	4.507	80750921	53541696	99.975	109.455
Sum	chlordane-1			162.2E6	161.2E6	NoCal	NoCal D
Average	chlordane-1					104.425	114.581
34) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000

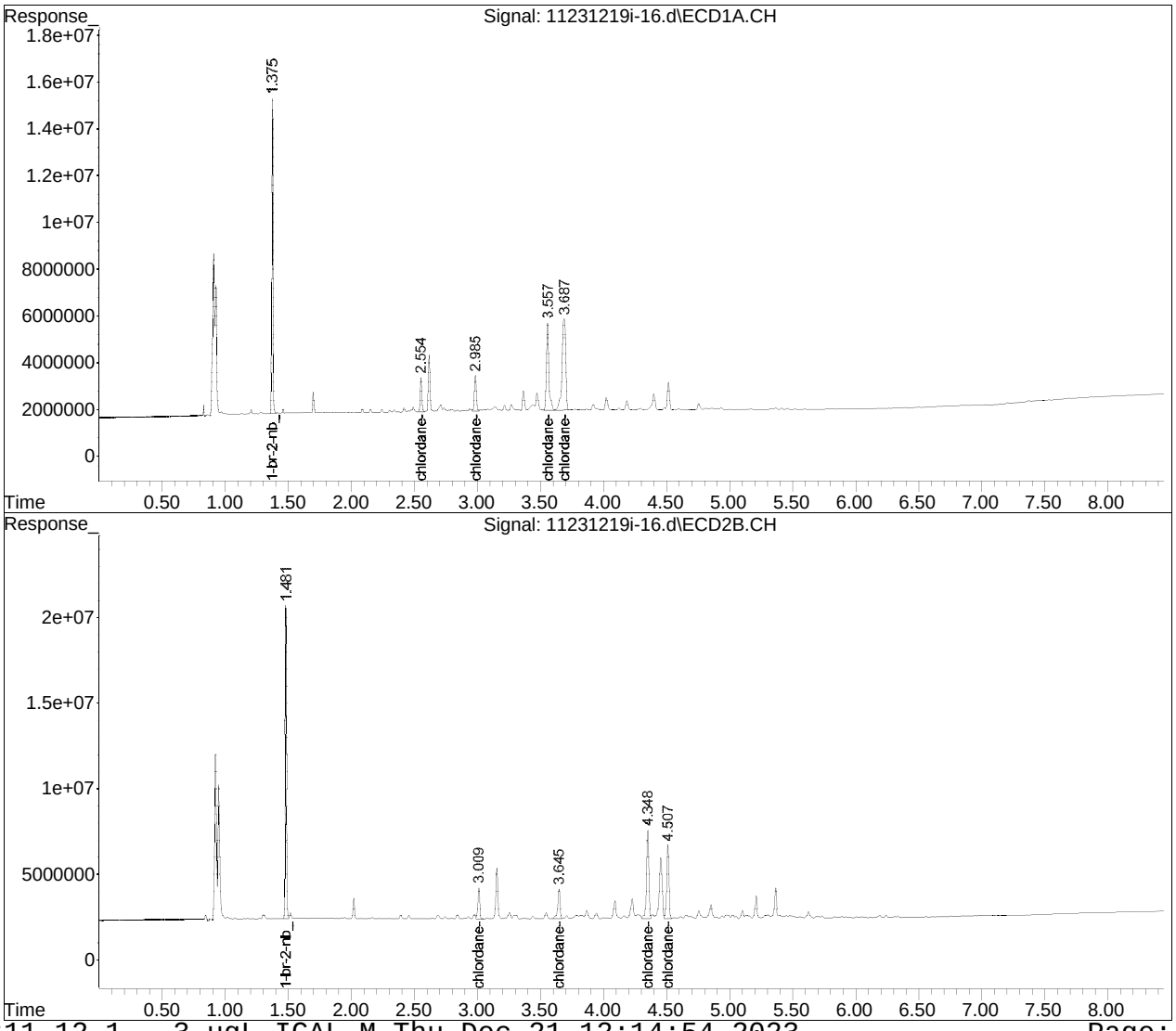
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest11\2023\231219ICAL\
Data File : 11231219i-16.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 19 Dec 2023 4:22 pm
Operator : PEST11:ejl
Sample : il5chlor,42e,,pp 11323 L0.1
Misc : WG1866910,ical (Sig #1); ical (Sig #2)
ALS Vial : 16 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 20 18:37:07 2023
Quant Method : I:\PEST\Pest11\2023\231219ICAL\pest11_12_19_23_ugL_ICAL.M
Quant Title : pest
QLast Update : Wed Dec 20 18:36:46 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

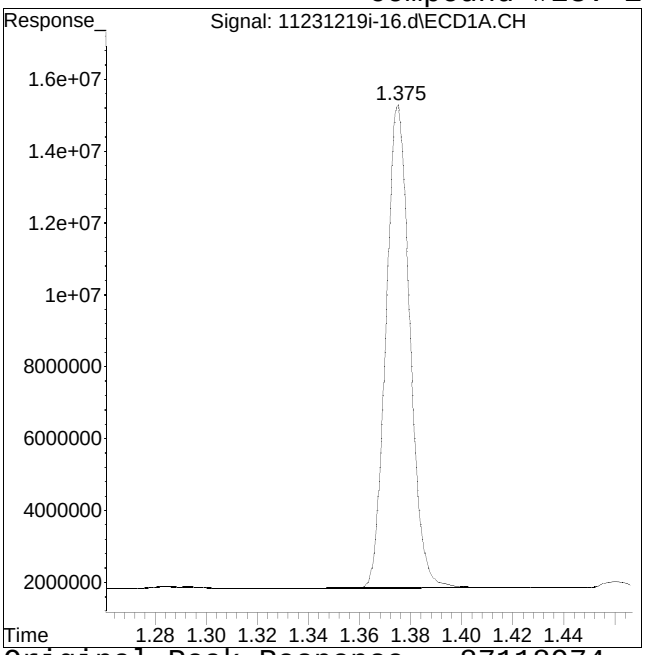
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



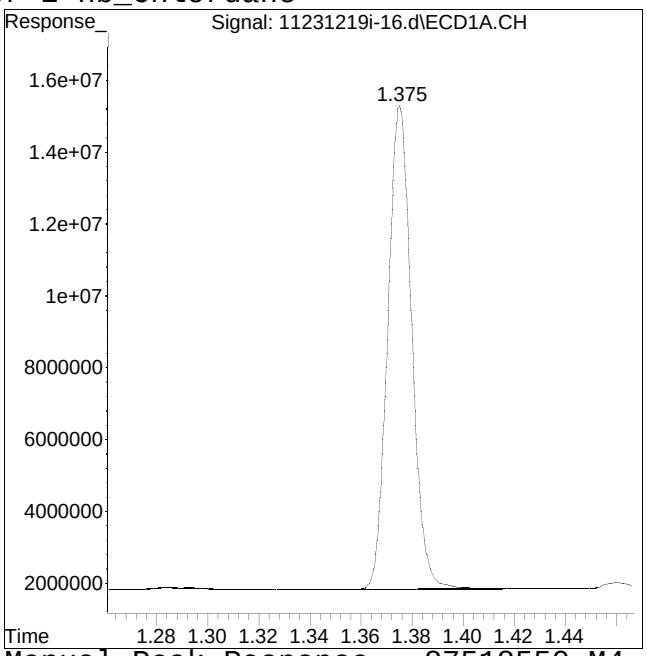
Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-16.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 4:22 pm Instrument : Pest 11
Sample : il5chlor,42e,,pp 11323 L0.Quant Date : 12/20/2023 6:36 pm

Compound #28: 1-br-2-nb_Chlordane



Original Peak Response = 87118974



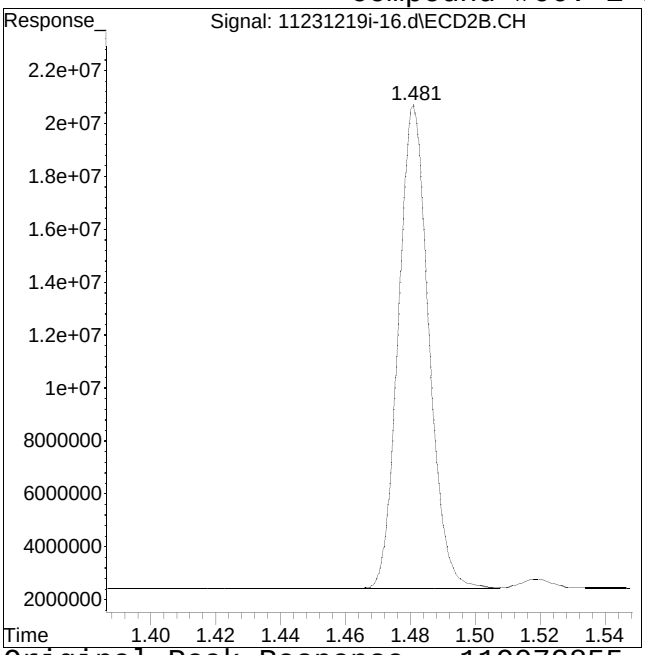
Manual Peak Response = 87518550 M4

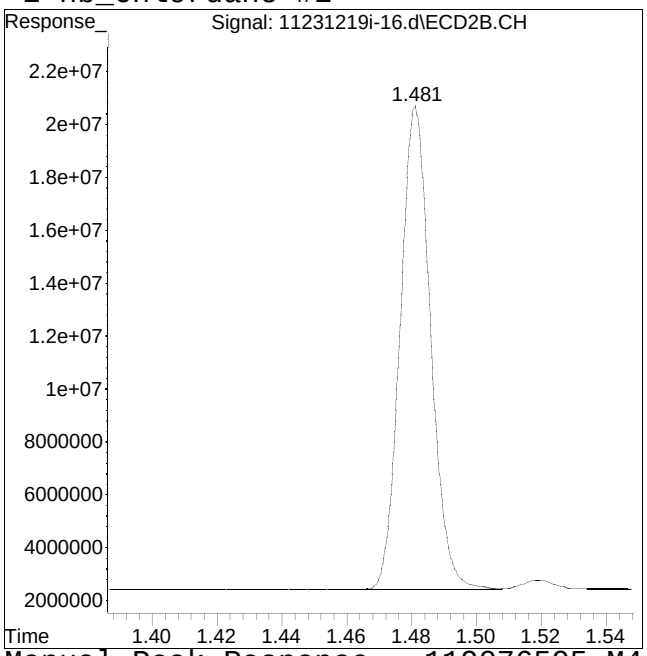
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-16.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 4:22 pm Instrument : Pest 11
Sample : il5chlor,42e,,pp 11323 L0.Quant Date : 12/20/2023 6:36 pm

Compound #66: 1-br-2-nb_Chlordane #2





Original Peak Response = 119072855 Manual Peak Response = 119076595 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2023\231219ICAL\
Data File : 11231219i-17.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 19 Dec 2023 4:34 pm
Operator : PEST11:ejl
Sample : il7chlor,42e,,pp 11322 L0.5
Misc : WG1866910,ical (Sig #1); ical (Sig #2)
ALS Vial : 17 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 20 18:36:22 2023
Quant Method : I:\PEST\Pest11\2023\231219ICAL\pest11_12_19_23_ugL_ICAL.M
Quant Title : pest
QLast Update : Wed Dec 20 18:36:11 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	1.375	1.481	91049311	123.3E6	25.000	25.000
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
	Target Compounds						
3) t	Hexachlorobe	0.000	0.000	0	0	N.D. d	N.D. d
4) t	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5) t	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6) t	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7) t	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8) t	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9) t	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10) t	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11) t	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12) t	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13) t	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14) t	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15) t	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17) t	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18) t	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19) t	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21) t	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22) t	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d
23) t	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest11\2023\231219ICAL\
Data File : 11231219i-17.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 19 Dec 2023 4:34 pm
Operator : PEST11:ejl
Sample : il7chlor,42e,,pp 11322 L0.5
Misc : WG1866910,ical (Sig #1); ical (Sig #2)
ALS Vial : 17 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 20 18:36:22 2023
Quant Method : I:\PEST\Pest11\2023\231219ICAL\pest11_12_19_23_ugL_ICAL.M
Quant Title : pest
QLast Update : Wed Dec 20 18:36:11 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
24) t	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25) t	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26) t	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	2.555	3.009	65027026	85801362	490.252	505.876
30) l1	chlordane-3	2.985	3.645	79558336	98630561	527.269	548.786
31) l1	chlordane-4	3.557	4.348	266.5E6	323.1E6	488.906	500.998
32) l1	chlordane-5	3.689	4.507	416.8E6	254.9E6	494.646	504.078
Sum	chlordane-1			827.9E6	762.4E6	NoCal	NoCal D
Average	chlordane-1					500.268	514.935
34) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000

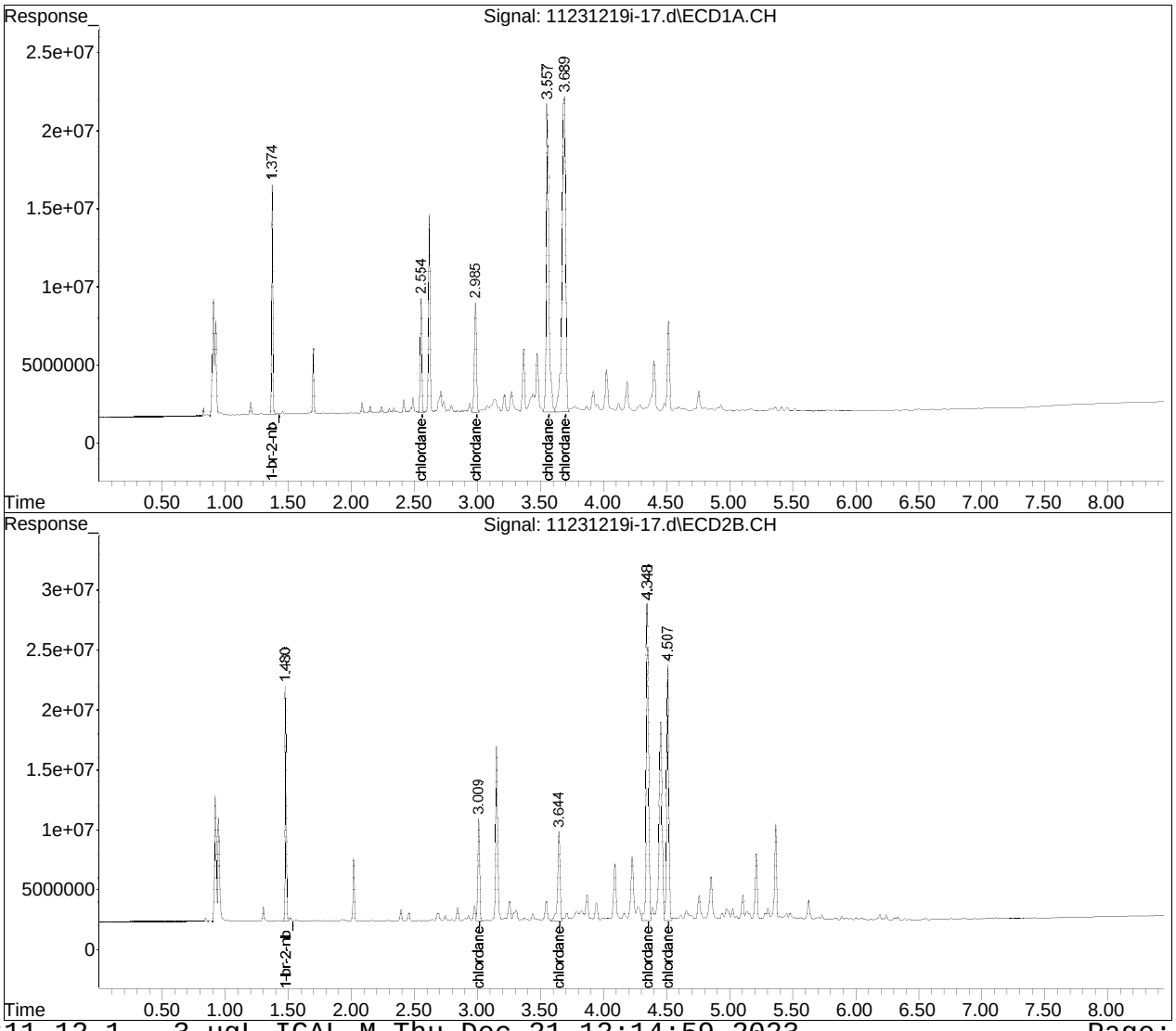
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest11\2023\231219ICAL\
Data File : 11231219i-17.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 19 Dec 2023 4:34 pm
Operator : PEST11:ejl
Sample : il7chlor,42e,,pp 11322 L0.5
Misc : WG1866910,ical (Sig #1); ical (Sig #2)
ALS Vial : 17 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 20 18:36:22 2023
Quant Method : I:\PEST\Pest11\2023\231219ICAL\pest11_12_19_23_ugL_ICAL.M
Quant Title : pest
QLast Update : Wed Dec 20 18:36:11 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-17.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 4:34 pm Instrument : Pest 11
Sample : il7chlor,42e,,pp 11322 L0.Quant Date : 12/20/2023 6:36 pm

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

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2023\231219ICAL\
Data File : 11231219i-18.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 19 Dec 2023 4:46 pm
Operator : PEST11:ejl
Sample : il8chlor,42e,,pp 11321 L1.0
Misc : WG1866910,ical (Sig #1); ical (Sig #2)
ALS Vial : 18 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 20 18:34:09 2023
Quant Method : I:\PEST\Pest11\2023\231219ICAL\pest11_12_19_23_ugL_ICAL.M
Quant Title : pest
QLast Update : Wed Dec 20 18:31:35 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	1.375	1.481	87908472	119.5E6	25.000	25.000
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
	Target Compounds						
3) t	Hexachlorobe	0.000	0.000	0	0	N.D. d	N.D. d
4) t	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5) t	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6) t	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7) t	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8) t	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9) t	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10) t	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11) t	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12) t	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13) t	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14) t	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15) t	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17) t	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18) t	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19) t	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21) t	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22) t	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d
23) t	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest11\2023\231219ICAL\
Data File : 11231219i-18.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 19 Dec 2023 4:46 pm
Operator : PEST11:ejl
Sample : il8chlor,42e,,pp 11321 L1.0
Misc : WG1866910,ical (Sig #1); ical (Sig #2)
ALS Vial : 18 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 20 18:34:09 2023
Quant Method : I:\PEST\Pest11\2023\231219ICAL\pest11_12_19_23_ugL_ICAL.M
Quant Title : pest
QLast Update : Wed Dec 20 18:31:35 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
24) t	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25) t	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26) t	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	2.555	3.010	130.9E6	170.5E6	NoCal	NoCal
30) l1	chlordane-3	2.985	3.645	154.5E6	188.3E6	NoCal	NoCal
31) l1	chlordane-4	3.557	4.348	542.8E6	649.3E6	NoCal	NoCal
32) l1	chlordane-5	3.690	4.507	843.3E6	509.7E6	NoCal	NoCal
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000

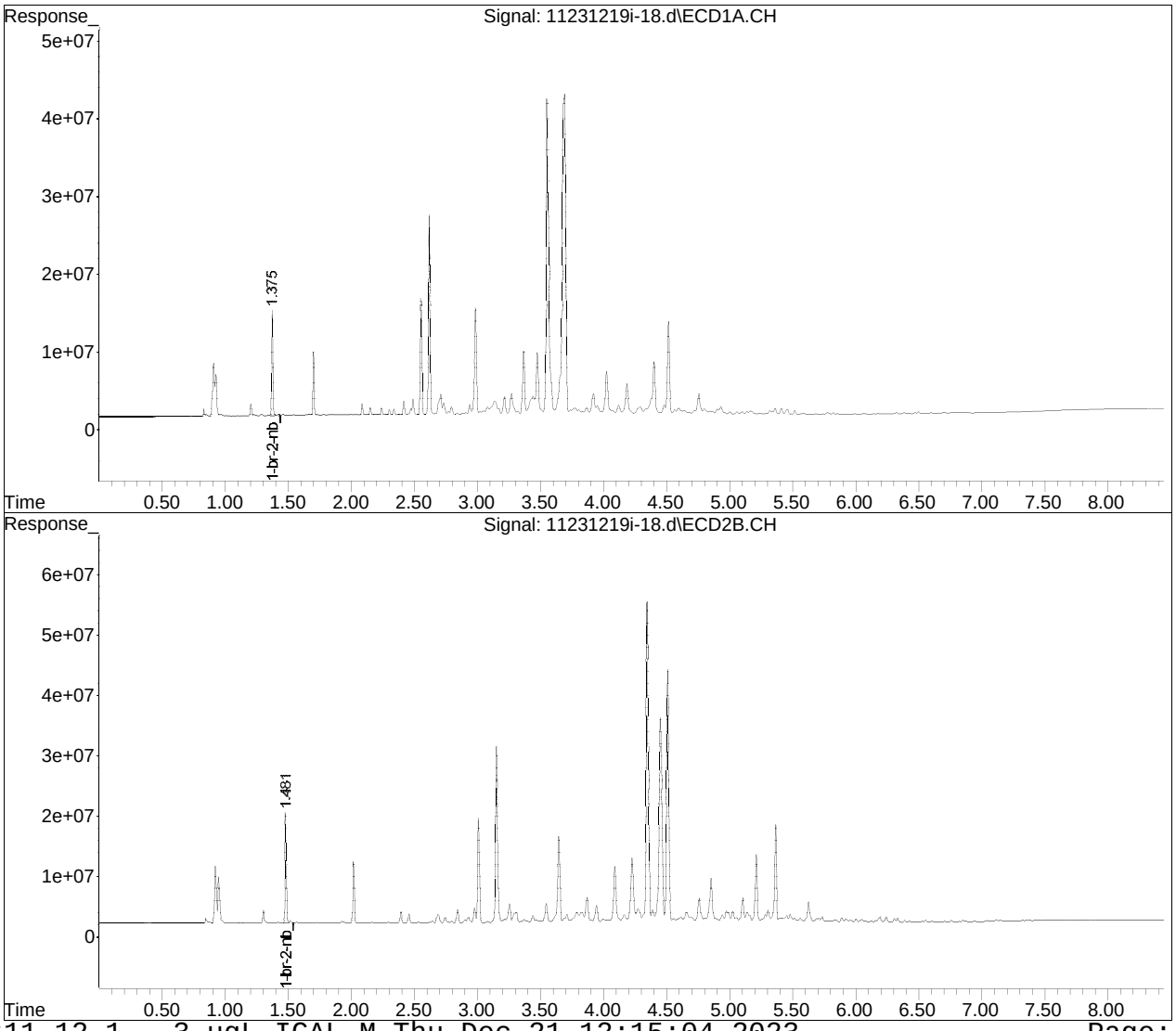
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest11\2023\231219ICAL\
Data File : 11231219i-18.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 19 Dec 2023 4:46 pm
Operator : PEST11:ejl
Sample : il8chlor,42e,,pp 11321 L1.0
Misc : WG1866910,ical (Sig #1); ical (Sig #2)
ALS Vial : 18 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 20 18:34:09 2023
Quant Method : I:\PEST\Pest11\2023\231219ICAL\pest11_12_19_23_ugL_ICAL.M
Quant Title : pest
QLast Update : Wed Dec 20 18:31:35 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Manual Integration Report

Data Path	: I:\PEST\Pest11\2023\231219Q	Method	: pest11_12_19_23_ugL_ICAL
Data File	: 11231219i-18.d	Operator	: PEST11:ejl
Date Inj'd	: 12/19/2023 4:46 pm	Instrument	: Pest 11
Sample	: il8chlor,42e,,pp 11321 L1.	Quant Date	: 12/20/2023 6:32 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2023\231219ICAL\
Data File : 11231219i-19.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 19 Dec 2023 4:58 pm
Operator : PEST11:ejl
Sample : il9chlor,42e,,pp 11320 L2.0
Misc : WG1866910,ical (Sig #1); ical (Sig #2)
ALS Vial : 19 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 20 18:34:59 2023
Quant Method : I:\PEST\Pest11\2023\231219ICAL\pest11_12_19_23_ugL_ICAL.M
Quant Title : pest
QLast Update : Wed Dec 20 18:34:37 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	1.374	1.480	95945926	131.1E6	25.000M4	25.000M4
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
	Target Compounds						
3) t	Hexachlorobe	0.000	0.000	0	0	N.D. d	N.D. d
4) t	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5) t	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6) t	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7) t	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8) t	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9) t	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10) t	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11) t	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12) t	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13) t	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14) t	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15) t	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17) t	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18) t	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19) t	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21) t	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22) t	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest11\2023\231219ICAL\
Data File : 11231219i-19.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 19 Dec 2023 4:58 pm
Operator : PEST11:ejl
Sample : il9chlor,42e,,pp 11320 L2.0
Misc : WG1866910,ical (Sig #1); ical (Sig #2)
ALS Vial : 19 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 20 18:34:59 2023
Quant Method : I:\PEST\Pest11\2023\231219ICAL\pest11_12_19_23_ugL_ICAL.M
Quant Title : pest
QLast Update : Wed Dec 20 18:34:37 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
23) t	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
24) t	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25) t	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26) t	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	2.554	3.009	270.3E6	348.8E6	1892.047	1863.855
30) l1	chlordane-3	2.985	3.644	307.6E6	370.0E6	1824.512	1790.634
31) l1	chlordane-4	3.557	4.347	1113.7E6	1328.9E6	1879.886	1865.070
32) l1	chlordane-5	3.687	4.507	1722.6E6	1040.4E6	1871.609	1860.073
Sum	chlordane-1			3414.2E6	3088.0E6	NoCal	NoCal D
Average	chlordane-1					1867.014	1844.908
34) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000

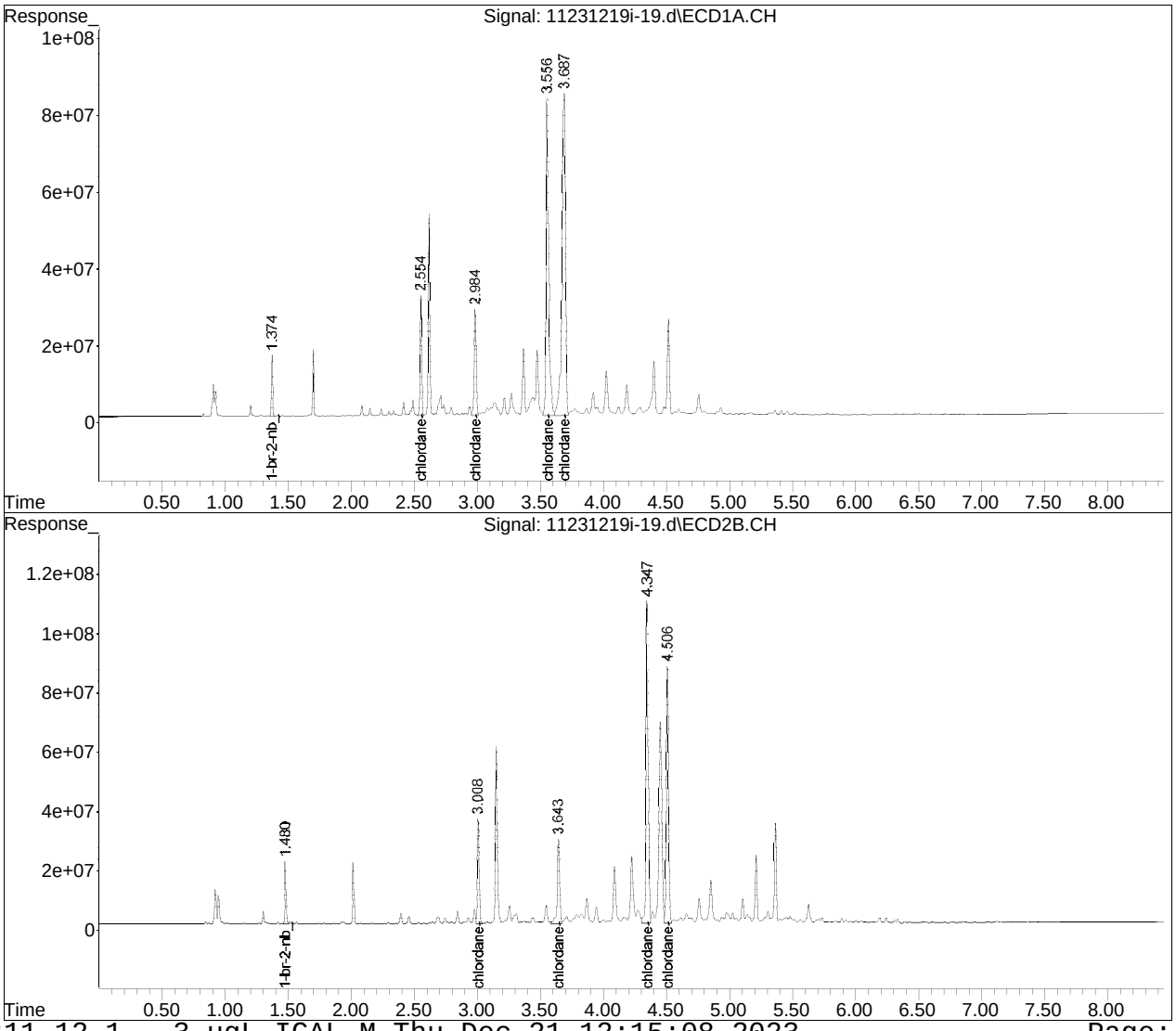
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest11\2023\231219ICAL\
Data File : 11231219i-19.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 19 Dec 2023 4:58 pm
Operator : PEST11:ejl
Sample : il9chlor,42e,,pp 11320 L2.0
Misc : WG1866910,ical (Sig #1); ical (Sig #2)
ALS Vial : 19 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 20 18:34:59 2023
Quant Method : I:\PEST\Pest11\2023\231219ICAL\pest11_12_19_23_ugL_ICAL.M
Quant Title : pest
QLast Update : Wed Dec 20 18:34:37 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

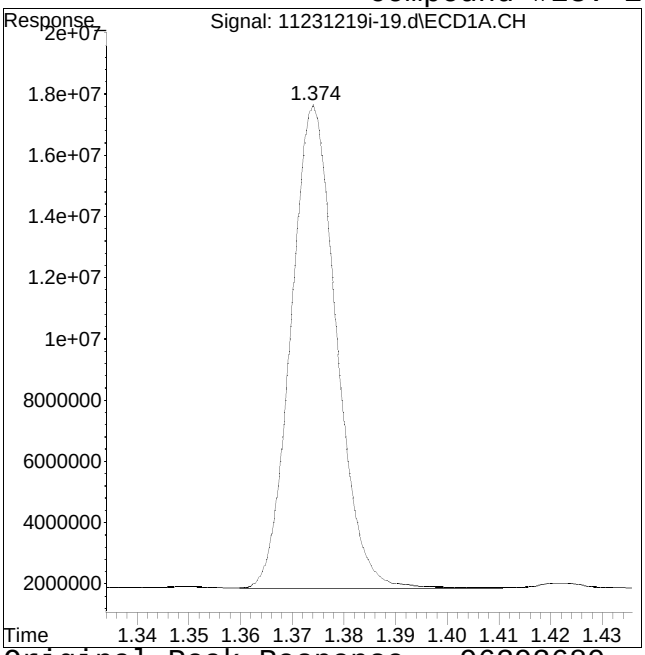
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



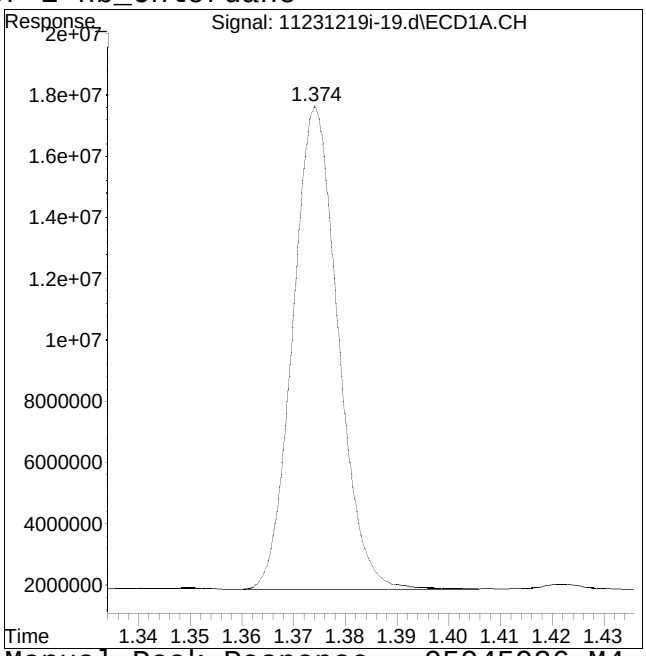
Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-19.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 4:58 pm Instrument : Pest 11
Sample : il9chlor,42e,,pp 11320 L2.Quant Date : 12/20/2023 6:34 pm

Compound #28: 1-br-2-nb_Chlordane



Original Peak Response = 96393680



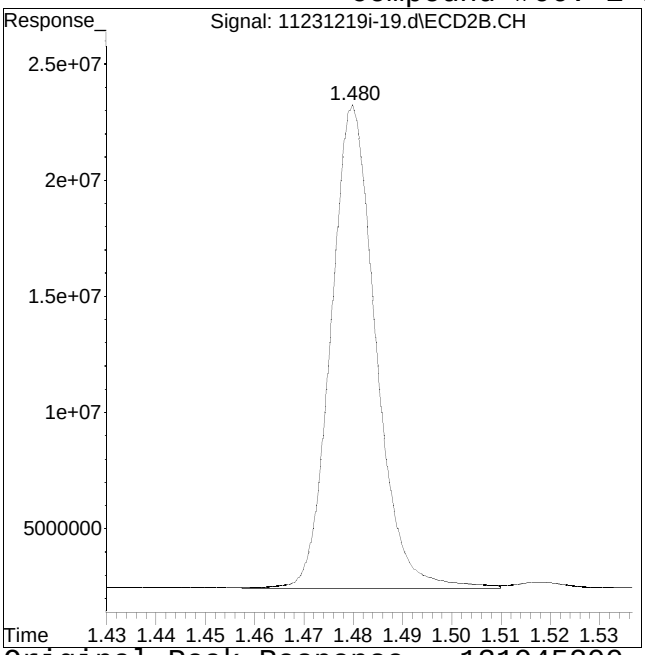
Manual Peak Response = 95945926 M4

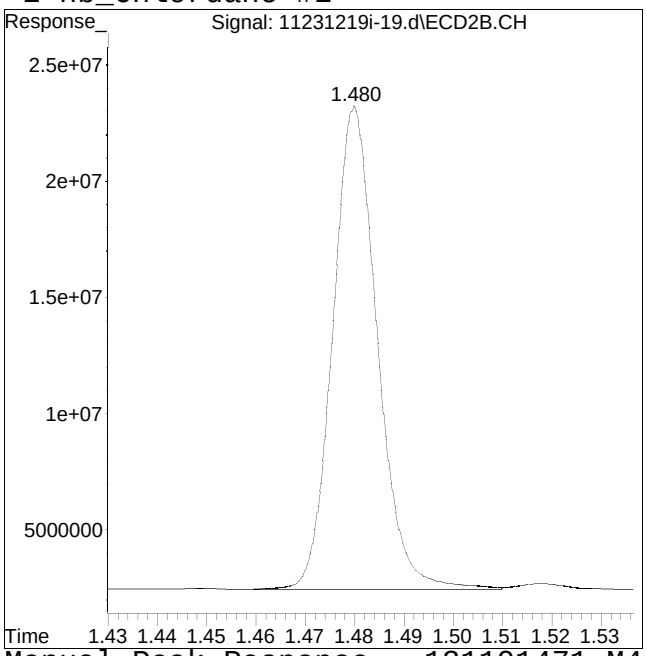
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-19.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 4:58 pm Instrument : Pest 11
Sample : il9chlor,42e,,pp 11320 L2.Quant Date : 12/20/2023 6:34 pm

Compound #66: 1-br-2-nb_Chlordane #2





Original Peak Response = 131945200 Manual Peak Response = 131101471 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2023\231219ICAL\
Data File : 11231219i-20.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 19 Dec 2023 5:10 pm
Operator : PEST11:ejl
Sample : il10chlor,42e,,pp 11319 L5.0
Misc : WG1866910,ical (Sig #1); ical (Sig #2)
ALS Vial : 20 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 20 18:35:48 2023
Quant Method : I:\PEST\Pest11\2023\231219ICAL\pest11_12_19_23_ugL_ICAL.M
Quant Title : pest
QLast Update : Wed Dec 20 18:35:20 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	1.375	1.481	93909066	131.1E6	25.000M4	25.000M3
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
	Target Compounds						
3) t	Hexachlorobe	0.000	0.000	0	0	N.D. d	N.D. d
4) t	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5) t	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6) t	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7) t	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8) t	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9) t	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10) t	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11) t	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12) t	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13) t	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14) t	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15) t	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17) t	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18) t	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19) t	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21) t	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22) t	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest11\2023\231219ICAL\
Data File : 11231219i-20.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 19 Dec 2023 5:10 pm
Operator : PEST11:ejl
Sample : il10chlor,42e,,pp 11319 L5.0
Misc : WG1866910,ical (Sig #1); ical (Sig #2)
ALS Vial : 20 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 20 18:35:48 2023
Quant Method : I:\PEST\Pest11\2023\231219ICAL\pest11_12_19_23_ugL_ICAL.M
Quant Title : pest
QLast Update : Wed Dec 20 18:35:20 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
23) t	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
24) t	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25) t	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26) t	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	2.555	3.010	691.6E6	896.5E6	5083.589	4961.682
30) l1	chlordane-3	2.985	3.645	756.8E6	907.3E6	4796.897	4635.429
31) l1	chlordane-4	3.557	4.348	2809.9E6	3397.0E6	4995.769	4935.966
32) l1	chlordane-5	3.689	4.507	4316.0E6	2663.4E6	4949.960	4936.161
Sum	chlordane-1			8574.3E6	7864.3E6	NoCal	NoCal D
Average	chlordane-1					4956.554	4867.310
34) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000

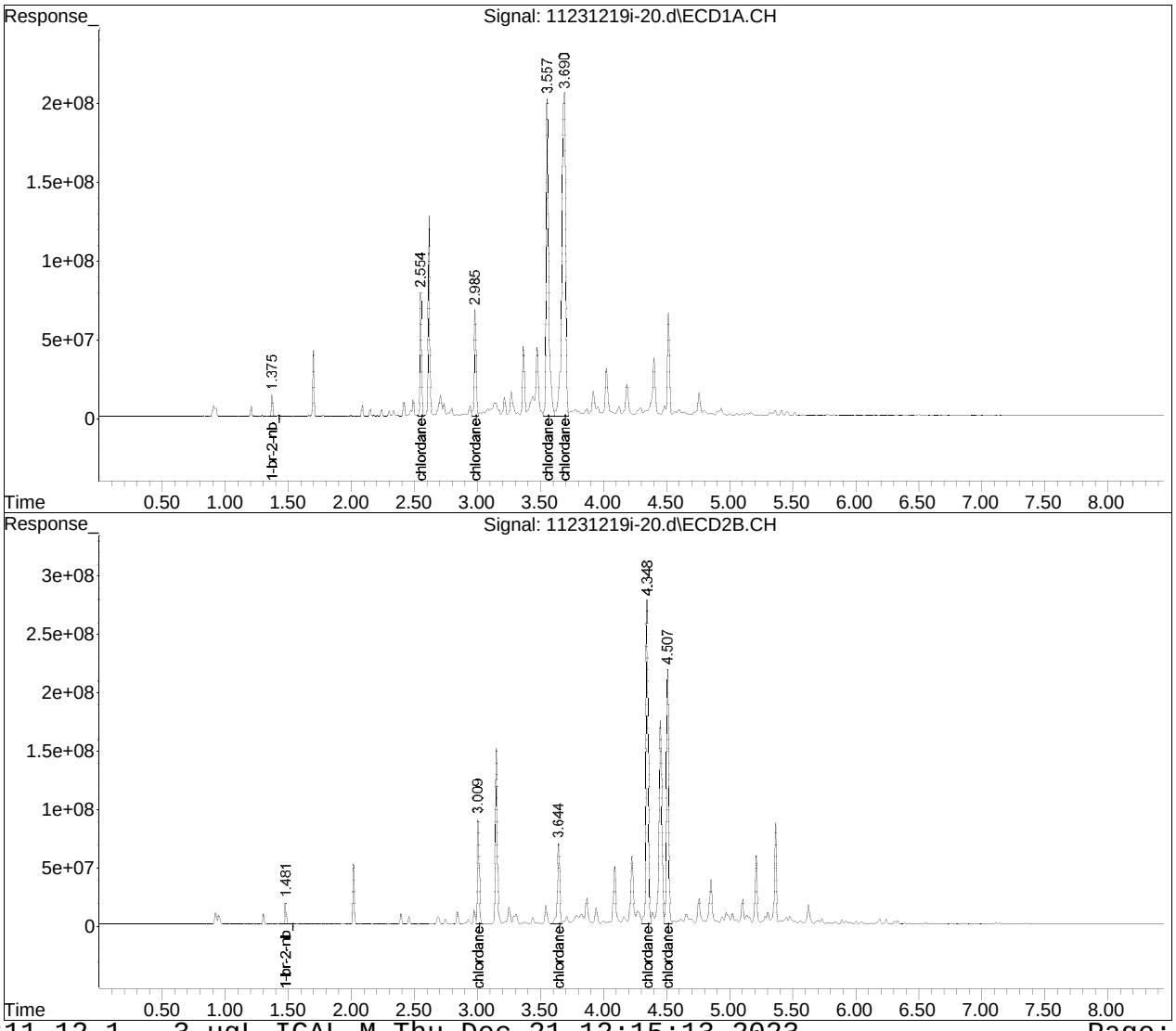
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest11\2023\231219ICAL\
Data File : 11231219i-20.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 19 Dec 2023 5:10 pm
Operator : PEST11:ejl
Sample : il10chlor,42e,,pp 11319 L5.0
Misc : WG1866910,ical (Sig #1); ical (Sig #2)
ALS Vial : 20 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 20 18:35:48 2023
Quant Method : I:\PEST\Pest11\2023\231219ICAL\pest11_12_19_23_ugL_ICAL.M
Quant Title : pest
QLast Update : Wed Dec 20 18:35:20 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

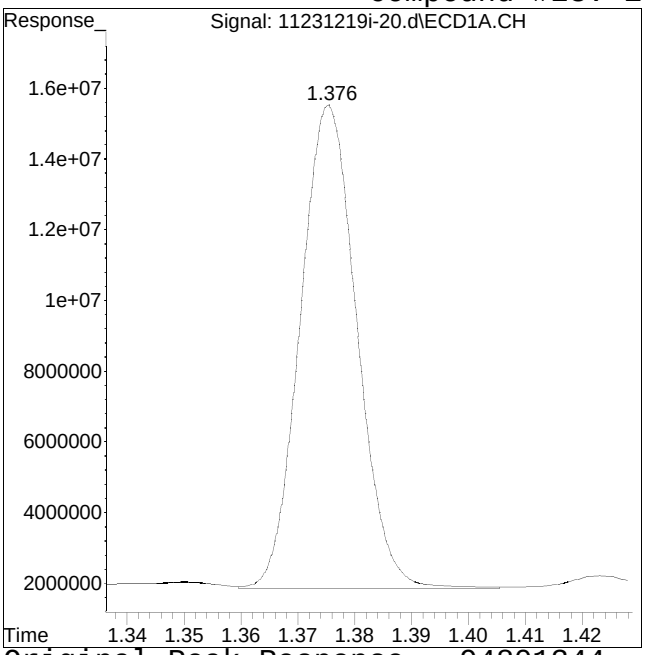
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



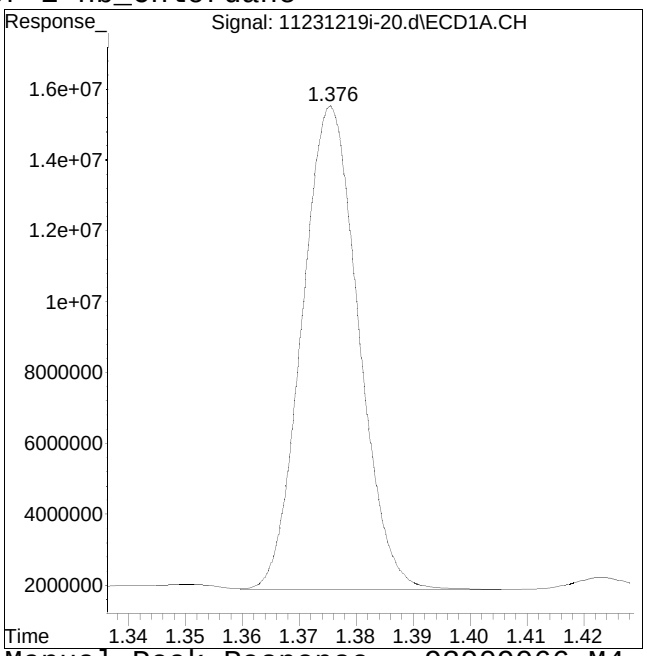
Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-20.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 5:10 pm Instrument : Pest 11
Sample : il10chlor,42e,,pp 11319 L5Quant Date : 12/20/2023 6:35 pm

Compound #28: 1-br-2-nb_Chlordane



Original Peak Response = 94801344



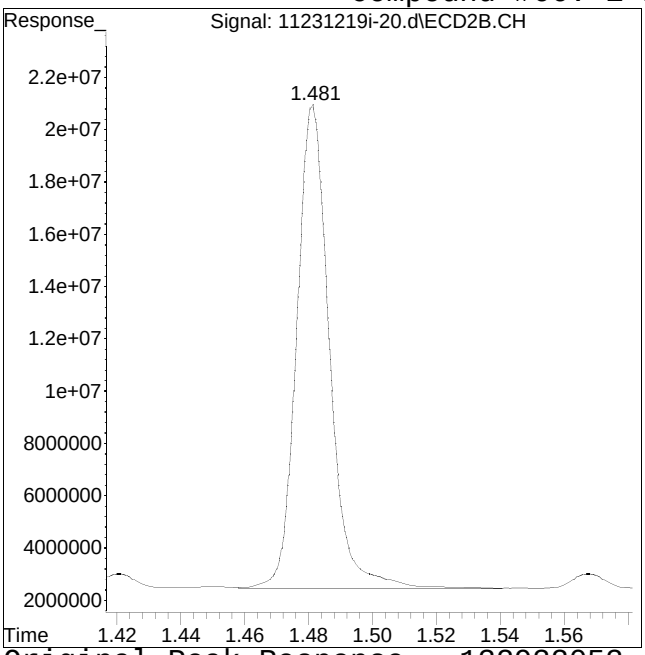
Manual Peak Response = 93909066 M4

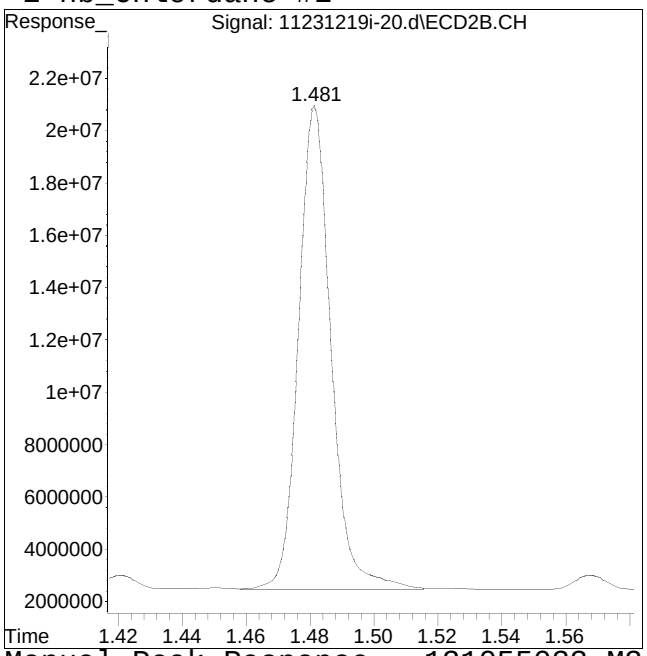
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-20.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 5:10 pm Instrument : Pest 11
Sample : il10chlor,42e,,pp 11319 L5Quant Date : 12/20/2023 6:35 pm

Compound #66: 1-br-2-nb_Chlordane #2





Original Peak Response = 132932053 Manual Peak Response = 131055033 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Initial Calibration Verification

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest11\2023\231219ICAL\
Data File : 11231219i-21.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 19 Dec 2023   5:21 pm
Operator : PEST11:ejl
Sample   : cicvchlor,42e,,pp 11437 L1.0ICV
Misc   : WG1866910,ical (Sig #1); ical (Sig #2)
ALS Vial : 21 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 20 18:40:39 2023
Quant Method : I:\PEST\Pest11\2023\231219ICAL\pest11_12_19_23_ugL_ICAL.M
Quant Title : pest
QLast Update : Wed Dec 20 18:39:57 2023
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
28	i	1-br-2-nb_Chlordane	^	1.000	1.000	0.0	103	0.00
29	l1	chlordane-1		*1000.000	859.805	14.0	89	0.00
30	l1	chlordane-3		*1000.000	950.658	4.9	94	0.00
31	l1	chlordane-4		*1000.000	936.822	6.3	95	0.00
32	l1	chlordane-5		*1000.000	1052.780	-5.3	106	0.00

Signal #2

28	i	1-br-2-nb_Chlordane	^	1.000	1.000	0.0	101	0.00
29	l1	chlordane-1		*1000.000	895.470	10.5	89	0.00
30	l1	chlordane-3		*1000.000	1004.923	-0.5	95	0.00
31	l1	chlordane-4		*1000.000	945.374	5.5	94	0.00
32	l1	chlordane-5		*1000.000	912.838	8.7	91	0.00

Evaluate Continuing Calibration Report - Not Founds

1	i	1-br-2-nb_Pesticides	^	1.000	1.000	0.0	0	-1.37#
2	s	2,4,5,6-Tetrachloro-m-xylen		0.958	0.000	100.0#	0#	-1.73#
3	t	Hexachlorobenzene		1.110	0.000	100.0#	0#	-1.95#
4	t	alpha-BHC		1.338	0.000	100.0#	0#	-2.05#
5	t	gamma-BHC (lindane)		1.278	0.000	100.0#	0#	-2.26#
6	t	beta-BHC	*	50.000	0.000	100.0#	0	-2.32#
7	t	delta-BHC		1.294	0.000	100.0#	0#	-2.45#
8	t	Heptachlor		1.309	0.000	100.0#	0#	-2.62#
9	t	Aldrin		1.187	0.000	100.0#	0#	-2.87#
10	t	Alachlor		0.192	0.000	100.0#	0#	-2.99#
11	t	Chlorpyrifos	*	50.000	0.000	100.0#	0	-3.09#
12	t	Heptachlor Epoxide		1.198	0.000	100.0#	0#	-3.43#
13	t	gamma-Chlordane (trans)		1.091	0.000	100.0#	0#	-3.56#

Data Path : I:\PEST\Pest11\2023\231219ICAL\
Data File : 11231219i-21.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 19 Dec 2023   5:21 pm
Operator : PEST11:ejl
Sample   : cicvchlor,42e,,pp 11437 L1.0ICV
Misc   : WG1866910,ical (Sig #1); ical (Sig #2)
ALS Vial : 21 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 20 18:40:39 2023
Quant Method : I:\PEST\Pest11\2023\231219ICAL\pest11_12_19_23_ugL_ICAL.M
Quant Title : pest
QLast Update : Wed Dec 20 18:39:57 2023
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
14	t	alpha-Chlordane (cis)		1.241	0.000	100.0#	0#	-3.69#
15	t	4,4'-DDE		1.126	0.000	100.0#	0#	-3.79#
16	t	Endosulfan I		1.172	0.000	100.0#	0#	-3.84#
17	t	Dieldrin		1.168	0.000	100.0#	0#	-4.10#
18	t	Endrin		1.186	0.000	100.0#	0#	-4.35#
19	t	4,4'-DDD		0.934	0.000	100.0#	0#	-4.45#
20	t	Endosulfan II		1.095	0.000	100.0#	0#	-4.58#
21	t	4,4'-DDT		1.111	0.000	100.0#	0#	-4.74#
22	t	Endrin Aldehyde	*	50.000	0.000	100.0#	0	-4.99#
23	t	Methoxychlor	*	50.000	0.000	100.0#	0	-5.21#
24	t	Mirex	*	50.000	0.000	100.0#	0	-5.27#
25	t	Endosulfan Sulfate		1.076	0.000	100.0#	0#	-5.37#
26	t	Endrin Ketone		1.215	0.000	100.0#	0#	-5.60#
27	s	Decachlorobiphenyl	*	50.000	0.000	100.0#	0	-6.39#
33	i	1-br-2-nb_Toxaphene	^	1.000	1.000	0.0	0	-1.38#
34	l2	toxaphene-2		0.059	0.000	100.0#	0#	-4.58#
35	l2	toxaphene-3		0.043	0.000	100.0#	0#	-4.70#
36	l2	toxaphene-4		0.050	0.000	100.0#	0#	-4.91#
37	l2	toxaphene-5		0.045	0.000	100.0#	0#	-5.28#

Signal #2

1	i	1-br-2-nb_Pesticides	^	1.000	1.000	0.0	0	-1.48#
2	s	2,4,5,6-Tetrachloro-m-xyl		0.995	0.000	100.0#	0#	-1.99#
3	t	Hexachlorobenzene	*	50.000	0.000	100.0#	0	-2.33#
4	t	alpha-BHC		1.388	0.000	100.0#	0#	-2.43#
5	t	gamma-BHC (lindane)		1.315	0.000	100.0#	0#	-2.73#
6	t	beta-BHC	*	50.000	0.000	100.0#	0	-2.80#
7	t	delta-BHC		1.309	0.000	100.0#	0#	-3.08#

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest11\2023\231219ICAL\
Data File : 11231219i-21.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 19 Dec 2023   5:21 pm
Operator : PEST11:ejl
Sample   : cicvchlor,42e,,pp 11437 L1.0ICV
Misc   : WG1866910,ical (Sig #1); ical (Sig #2)
ALS Vial : 21 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 20 18:40:39 2023
Quant Method : I:\PEST\Pest11\2023\231219ICAL\pest11_12_19_23_ugL_ICAL.M
Quant Title : pest
QLast Update : Wed Dec 20 18:39:57 2023
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
8	t	Heptachlor		1.356	0.000	100.0#	0#	-3.15#
9	t	Aldrin		1.227	0.000	100.0#	0#	-3.49#
10	t	Alachlor	*	50.000	0.000	100.0#	0	-3.36#
11	t	Chlorpyrifos	*	50.000	0.000	100.0#	0	-3.73#
12	t	Heptachlor Epoxide	*	50.000	0.000	100.0#	0	-4.13#
13	t	gamma-Chlordane (trans)		1.105	0.000	100.0#	0#	-4.35#
14	t	alpha-Chlordane (cis)	*	50.000	0.000	100.0#	0	-4.51#
15	t	4,4'-DDE		1.127	0.000	100.0#	0#	-4.69#
16	t	Endosulfan I		1.127	0.000	100.0#	0#	-4.57#
17	t	Dieldrin		1.127	0.000	100.0#	0#	-4.84#
18	t	Endrin		1.130	0.000	100.0#	0#	-5.13#
19	t	4,4'-DDD		0.897	0.000	100.0#	0#	-5.24#
20	t	Endosulfan II		1.018	0.000	100.0#	0#	-5.32#
21	t	4,4'-DDT	*	50.000	0.000	100.0#	0	-5.51#
22	t	Endrin Aldehyde	*	50.000	0.000	100.0#	0	-5.61#
23	t	Methoxychlor	*	50.000	0.000	100.0#	0	-6.06#
24	t	Mirex	*	50.000	0.000	100.0#	0	-6.21#
25	t	Endosulfan Sulfate		0.994	0.000	100.0#	0#	-5.83#
26	t	Endrin Ketone		1.068	0.000	100.0#	0#	-6.24#
27	s	Decachlorobiphenyl	*	50.000	0.000	100.0#	0	-7.08#
33	i	1-br-2-nb_Toxaphene	^	1.000	1.000	0.0	0	-1.48#
34	l2	toxaphene-2		0.022	0.000	100.0#	0#	-5.28#
35	l2	toxaphene-3		0.033	0.000	100.0#	0#	-5.31#
36	l2	toxaphene-4		0.038	0.000	100.0#	0#	-5.62#
37	l2	toxaphene-5		0.036	0.000	100.0#	0#	-6.02#

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0
(^) = ISTD area calculated using ICAL average

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2023\231219ICAL\
Data File : 11231219i-21.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 19 Dec 2023 5:21 pm
Operator : PEST11:ejl
Sample : cicvchlor,42e,,pp 11437 L1.0ICV
Misc : WG1866910,ical (Sig #1); ical (Sig #2)
ALS Vial : 21 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 20 18:40:39 2023
Quant Method : I:\PEST\Pest11\2023\231219ICAL\pest11_12_19_23_ugL_ICAL.M
Quant Title : pest
QLast Update : Wed Dec 20 18:39:57 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	1.375	1.481	92738741	123.8E6	25.000M3	25.000M3
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
	Target Compounds						
3) t	Hexachlorobe	0.000	0.000	0	0	N.D. d	N.D. d
4) t	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5) t	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6) t	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7) t	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8) t	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9) t	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10) t	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11) t	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12) t	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13) t	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14) t	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15) t	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17) t	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18) t	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19) t	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21) t	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22) t	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest11\2023\231219ICAL\
Data File : 11231219i-21.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 19 Dec 2023 5:21 pm
Operator : PEST11:ejl
Sample : cicvchlor,42e,,pp 11437 L1.0ICV
Misc : WG1866910,ical (Sig #1); ical (Sig #2)
ALS Vial : 21 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 20 18:40:39 2023
Quant Method : I:\PEST\Pest11\2023\231219ICAL\pest11_12_19_23_ugL_ICAL.M
Quant Title : pest
QLast Update : Wed Dec 20 18:39:57 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
23) t	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
24) t	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25) t	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26) t	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	2.554	3.010	116.3E6	152.4E6	859.805	895.470
30) l1	chlordane-3	2.985	3.645	144.8E6	178.8E6	950.658	1004.923
31) l1	chlordane-4	3.557	4.347	517.8E6	609.0E6	936.822	945.374M3
32) l1	chlordane-5	3.683	4.507	897.5E6	461.5E6	1052.780	912.838
Sum	chlordane-1			1676.5E6	1401.7E6	NoCal	NoCal D
Average	chlordane-1					950.016	939.651
34) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000

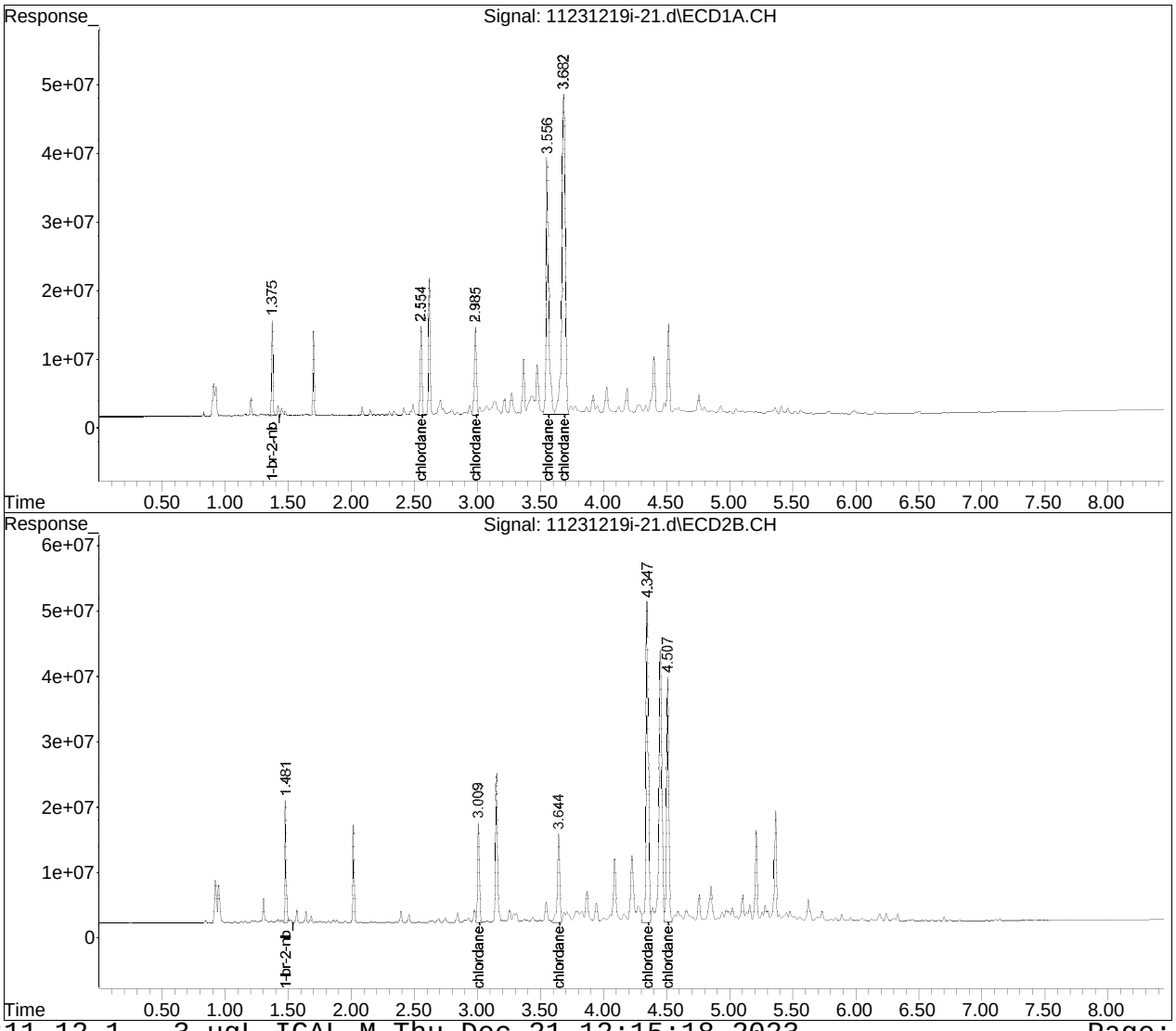
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest11\2023\231219ICAL\
Data File : 11231219i-21.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 19 Dec 2023 5:21 pm
Operator : PEST11:ejl
Sample : cicvchlor,42e,,pp 11437 L1.0ICV
Misc : WG1866910,ical (Sig #1); ical (Sig #2)
ALS Vial : 21 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 20 18:40:39 2023
Quant Method : I:\PEST\Pest11\2023\231219ICAL\pest11_12_19_23_ugL_ICAL.M
Quant Title : pest
QLast Update : Wed Dec 20 18:39:57 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

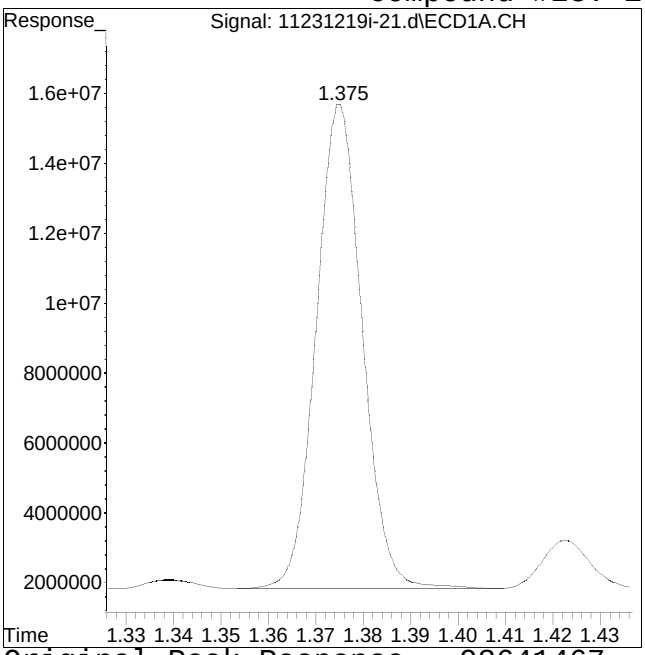
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

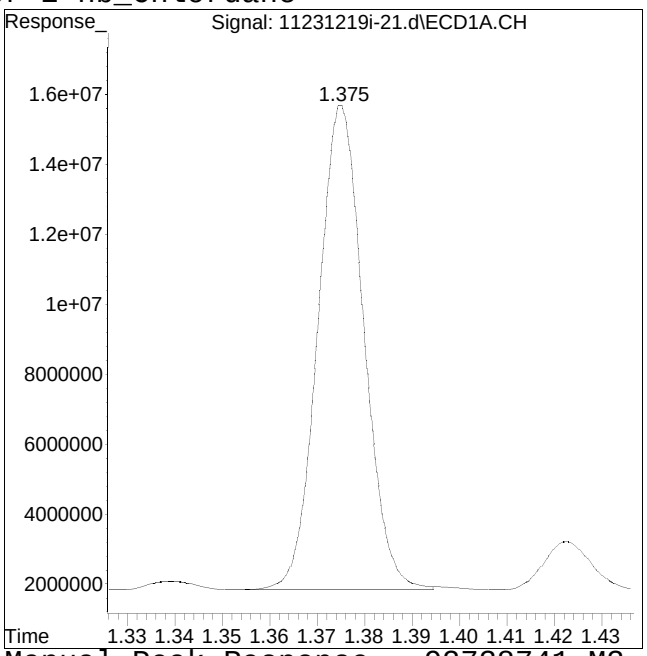


Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-21.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 5:21 pm Instrument : Pest 11
Sample : cicvchlor,42e,,pp 11437 L1Quant Date : 12/20/2023 6:40 pm

Compound #28: 1-br-2-nb_Chlordane



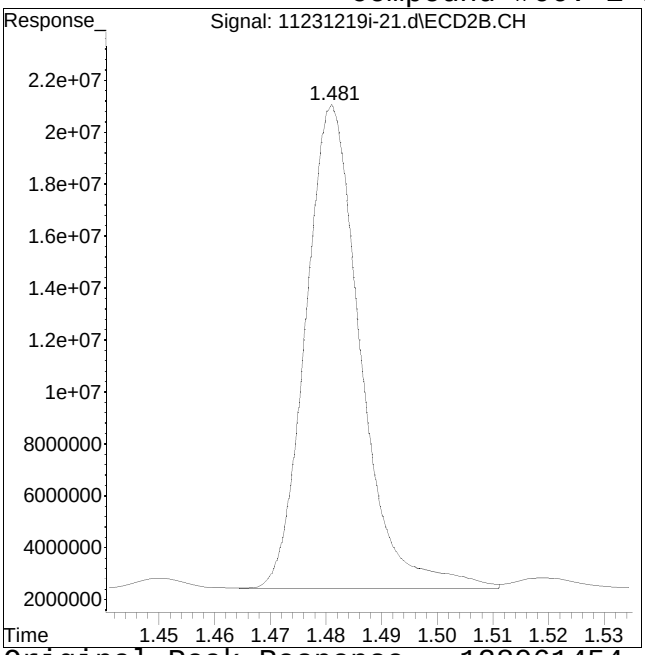


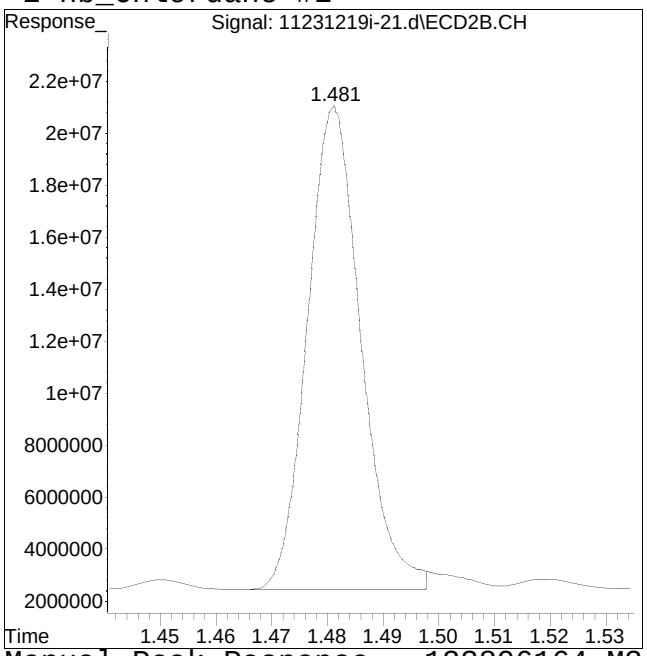
Original Peak Response = 93641467 Manual Peak Response = 92738741 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-21.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 5:21 pm Instrument : Pest 11
Sample : cicvchlor,42e,,pp 11437 L1Quant Date : 12/20/2023 6:40 pm

Compound #66: 1-br-2-nb_Chlordane #2



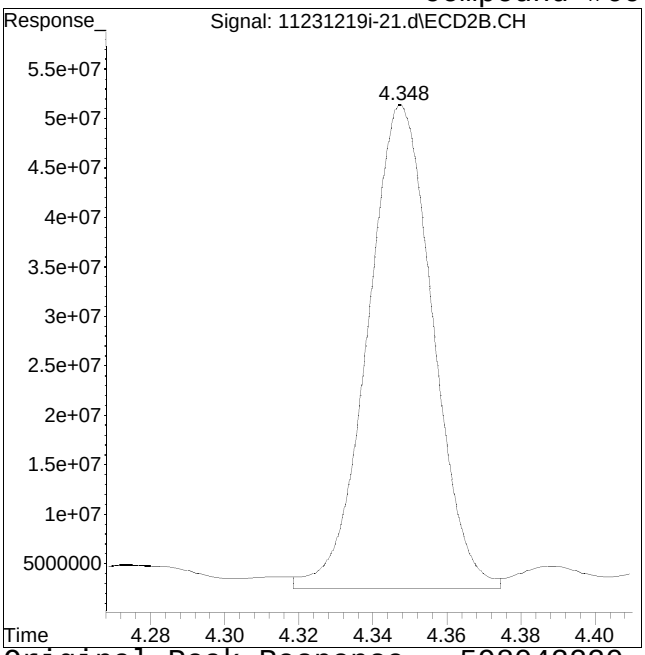


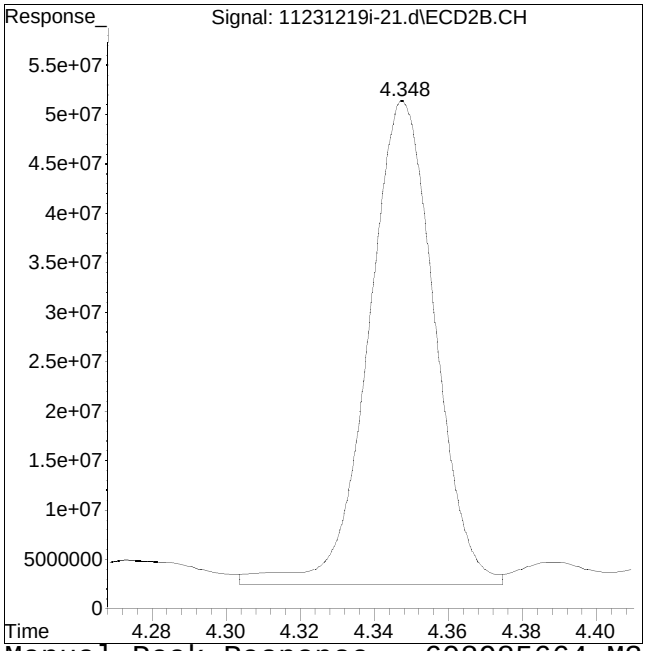
Original Peak Response = 128061454 Manual Peak Response = 123806164 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-21.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 5:21 pm Instrument : Pest 11
Sample : cicvchlor,42e,,pp 11437 L1Quant Date : 12/20/2023 6:40 pm

Compound #69: chlordane-4 #2





Original Peak Response = 598042220 Manual Peak Response = 608985664 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2023\231219ICAL\
Data File : 11231219i-22.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 19 Dec 2023 5:33 pm
Operator : PEST11:ejl
Sample : il3tox,42e,,pp 11328 L0.02
Misc : WG1866910,ical (Sig #1); ical (Sig #2)
ALS Vial : 22 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 20 18:43:45 2023
Quant Method : I:\PEST\Pest11\2023\231219ICAL\pest11_12_19_23_ugL_ICAL.M
Quant Title : pest
QLast Update : Wed Dec 20 18:42:50 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	1.374	1.481	78178155	106.5E6	25.000M4	25.000
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150	Recovery	=	0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D.	N.D.
	Spiked Amount	50.000	Range 30 - 150	Recovery	=	0.00%#	0.00%#
	Target Compounds						
3) t	Hexachlorobe	0.000	0.000	0	0	N.D.	N.D.
4) t	alpha-BHC	0.000	0.000	0	0	N.D.	N.D.
5) t	gamma-BHC (l	0.000	0.000	0	0	N.D.	N.D.
6) t	beta-BHC	0.000	0.000	0	0	N.D.	N.D.
7) t	delta-BHC	0.000	0.000	0	0	N.D.	N.D.
8) t	Heptachlor	0.000	0.000	0	0	N.D.	N.D.
9) t	Aldrin	0.000	0.000	0	0	N.D.	N.D.
10) t	Alachlor	0.000	0.000	0	0	N.D.	N.D.
11) t	Chlorpyrifos	0.000	0.000	0	0	N.D.	N.D.
12) t	Heptachlor E	0.000	0.000	0	0	N.D.	N.D.
13) t	gamma-Chlord	0.000	0.000	0	0	N.D.	N.D.
14) t	alpha-Chlord	0.000	0.000	0	0	N.D.	N.D.
15) t	4,4'-DDE	0.000	0.000	0	0	N.D.	N.D.
16) t	Endosulfan I	0.000	0.000	0	0	N.D.	N.D.
17) t	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18) t	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19) t	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21) t	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22) t	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d
23) t	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest11\2023\231219ICAL\
Data File : 11231219i-22.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 19 Dec 2023 5:33 pm
Operator : PEST11:ejl
Sample : il3tox,42e,,pp 11328 L0.02
Misc : WG1866910,ical (Sig #1); ical (Sig #2)
ALS Vial : 22 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 20 18:43:45 2023
Quant Method : I:\PEST\Pest11\2023\231219ICAL\pest11_12_19_23_ugL_ICAL.M
Quant Title : pest
QLast Update : Wed Dec 20 18:42:50 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
24) t	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25) t	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26) t	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	0.000	0.000	0	0	N.D.	N.D.
30) l1	chlordane-3	0.000	0.000	0	0	N.D.	N.D.
31) l1	chlordane-4	0.000	0.000	0	0	N.D.	N.D.
32) l1	chlordane-5	0.000	0.000	0	0	N.D.	N.D.
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-2	4.575	5.279	3457371	1690630	17.950	17.477M4
35) l2	toxaphene-3	4.695	5.308	2352354	2790051	16.664	19.510M4
36) l2	toxaphene-4	4.912	5.613	3057980	3070864	19.393	18.363
37) l2	toxaphene-5	5.282	6.016	2690281	3083039	18.548M4	19.901
Sum	toxaphene-2			11557986	10634584	72.556	75.251
Average	toxaphene-2					18.139	18.813

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-2			11557986	10634584	72.556	75.251
Average	toxaphene-2					18.139	18.813

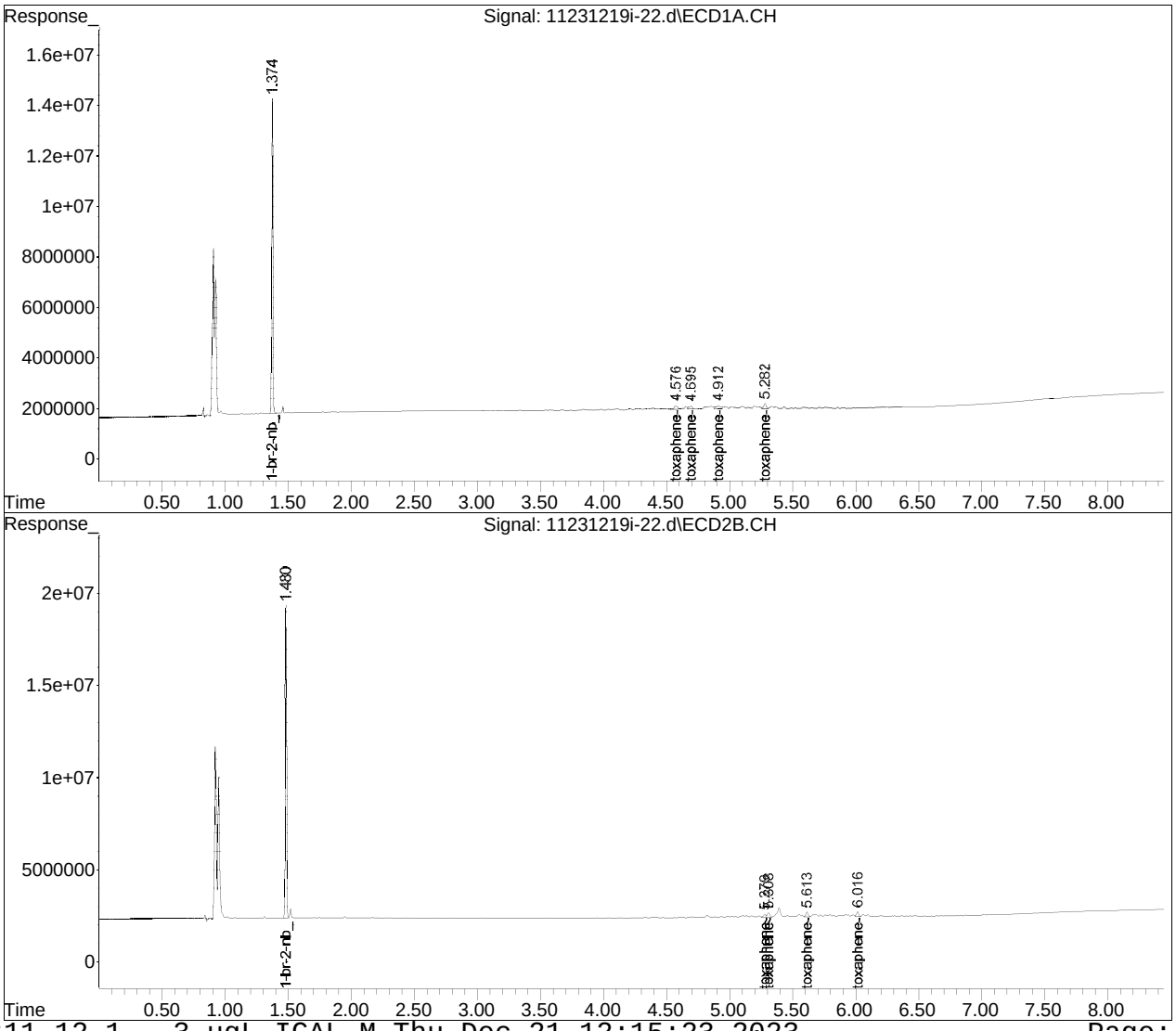
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest11\2023\231219ICAL\
Data File : 11231219i-22.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 19 Dec 2023 5:33 pm
Operator : PEST11:ejl
Sample : il3tox,42e,,pp 11328 L0.02
Misc : WG1866910,ical (Sig #1); ical (Sig #2)
ALS Vial : 22 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 20 18:43:45 2023
Quant Method : I:\PEST\Pest11\2023\231219ICAL\pest11_12_19_23_ugL_ICAL.M
Quant Title : pest
QLast Update : Wed Dec 20 18:42:50 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

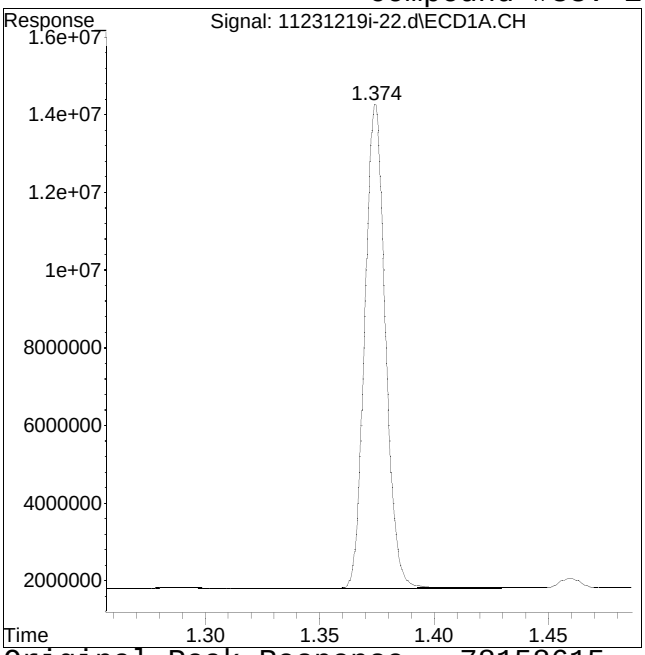
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



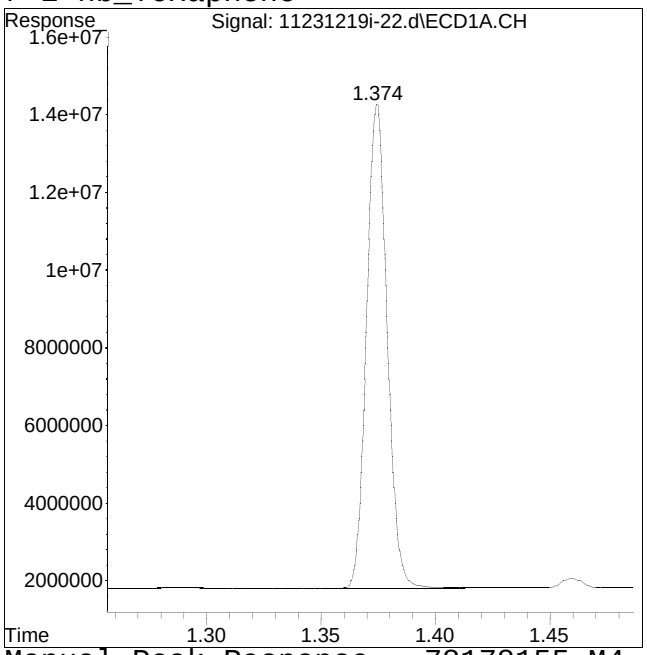
Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-22.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 5:33 pm Instrument : Pest 11
Sample : il3tox,42e,,pp 11328 L0.02Quant Date : 12/20/2023 6:42 pm

Compound #33: 1-br-2-nb_Toxaphene



Original Peak Response = 78158615



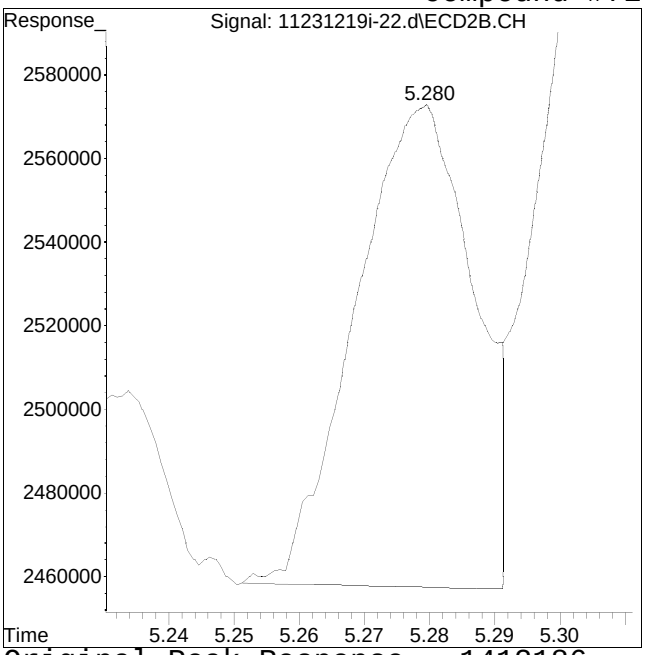
Manual Peak Response = 78178155 M4

M4 = Poor automated baseline construction.

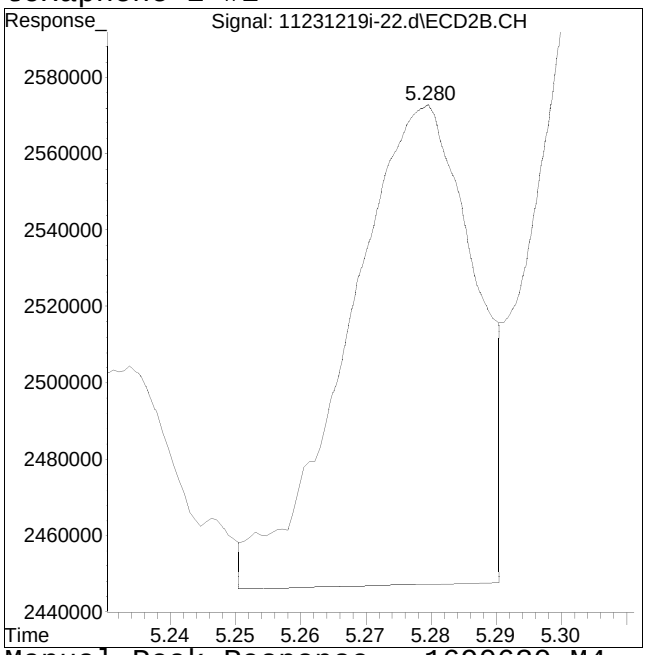
Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-22.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 5:33 pm Instrument : Pest 11
Sample : il3tox,42e,,pp 11328 L0.02Quant Date : 12/20/2023 6:42 pm

Compound #72: toxaphene-2 #2



Original Peak Response = 1412186



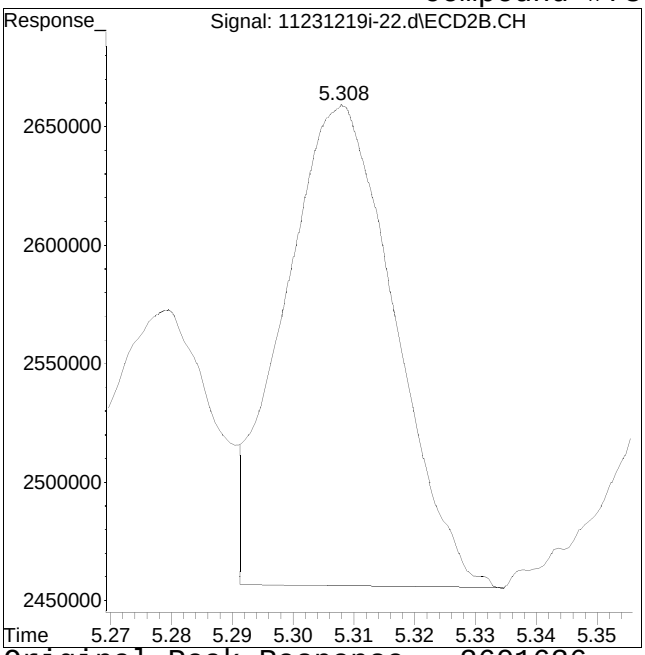
Manual Peak Response = 1690630 M4

M4 = Poor automated baseline construction.

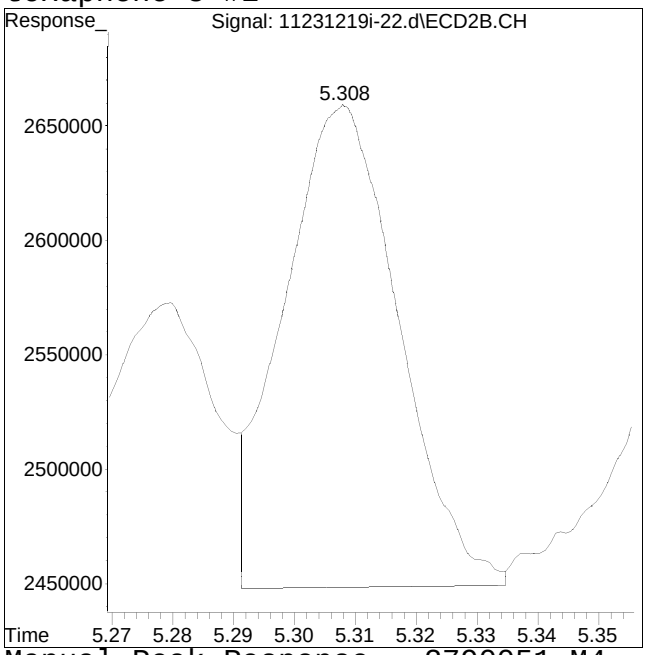
Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-22.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 5:33 pm Instrument : Pest 11
Sample : il3tox,42e,,pp 11328 L0.02Quant Date : 12/20/2023 6:42 pm

Compound #73: toxaphene-3 #2



Original Peak Response = 2601636



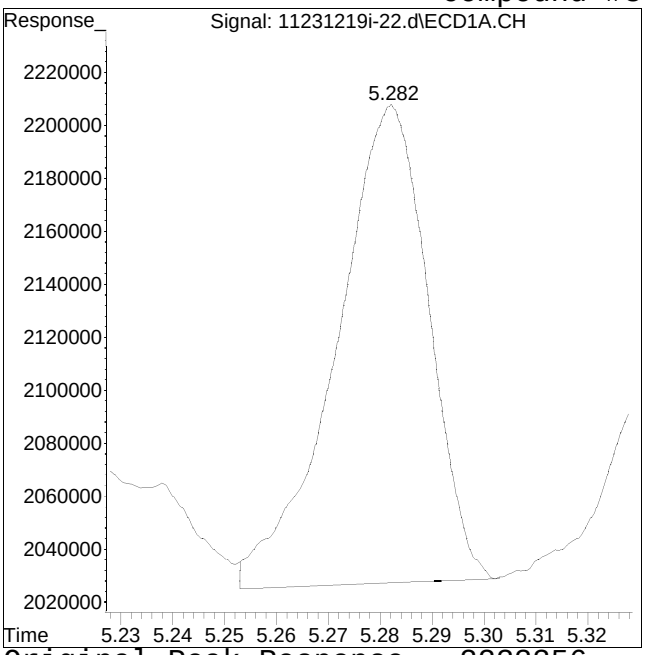
Manual Peak Response = 2790051 M4

M4 = Poor automated baseline construction.

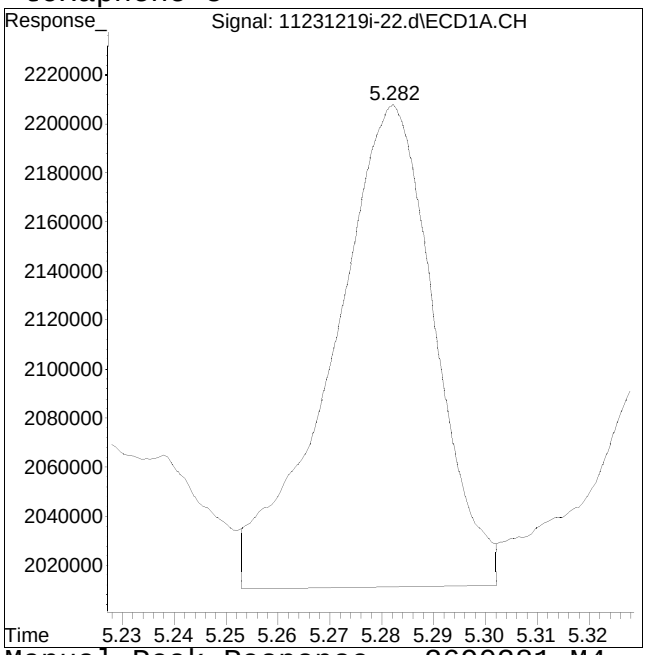
Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-22.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 5:33 pm Instrument : Pest 11
Sample : il3tox,42e,,pp 11328 L0.02Quant Date : 12/20/2023 6:42 pm

Compound #37: toxaphene-5



Original Peak Response = 2233356



Manual Peak Response = 2690281 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2023\231219ICAL\
Data File : 11231219i-23.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 19 Dec 2023 5:45 pm
Operator : PEST11:ejl
Sample : il8tox,42e,,pp 11327 L2.0
Misc : WG1866910,ical (Sig #1); ical (Sig #2)
ALS Vial : 23 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 20 18:41:35 2023
Quant Method : I:\PEST\Pest11\2023\231219ICAL\pest11_12_19_23_ugL_ICAL.M
Quant Title : pest
QLast Update : Wed Dec 20 18:39:57 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	1.375	1.481	81525598	109.5E6	25.000	25.000
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D.	N.D.
	Spiked Amount 50.000	Range 30 - 150		Recovery =		0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount 50.000	Range 30 - 150		Recovery =		0.00%#	0.00%#
	Target Compounds						
3) t	Hexachlorobe	0.000	0.000	0	0	N.D.	N.D.
4) t	alpha-BHC	0.000	0.000	0	0	N.D.	N.D.
5) t	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6) t	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7) t	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8) t	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9) t	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10) t	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11) t	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12) t	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13) t	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14) t	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15) t	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17) t	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18) t	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19) t	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21) t	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22) t	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d
23) t	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest11\2023\231219ICAL\
Data File : 11231219i-23.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 19 Dec 2023 5:45 pm
Operator : PEST11:ejl
Sample : il8tox,42e,,pp 11327 L2.0
Misc : WG1866910,ical (Sig #1); ical (Sig #2)
ALS Vial : 23 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 20 18:41:35 2023
Quant Method : I:\PEST\Pest11\2023\231219ICAL\pest11_12_19_23_ugL_ICAL.M
Quant Title : pest
QLast Update : Wed Dec 20 18:39:57 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
24) t	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25) t	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26) t	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-2	4.576	5.278	403.9E6	196.9E6	NoCal M3	NoCal
35) l2	toxaphene-3	4.696	5.308	291.3E6	291.7E6	NoCal	NoCal
36) l2	toxaphene-4	4.913	5.614	325.2E6	340.0E6	NoCal	NoCal
37) l2	toxaphene-5	5.283	6.016	301.4E6	315.3E6	NoCal	NoCal
Sum	toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000

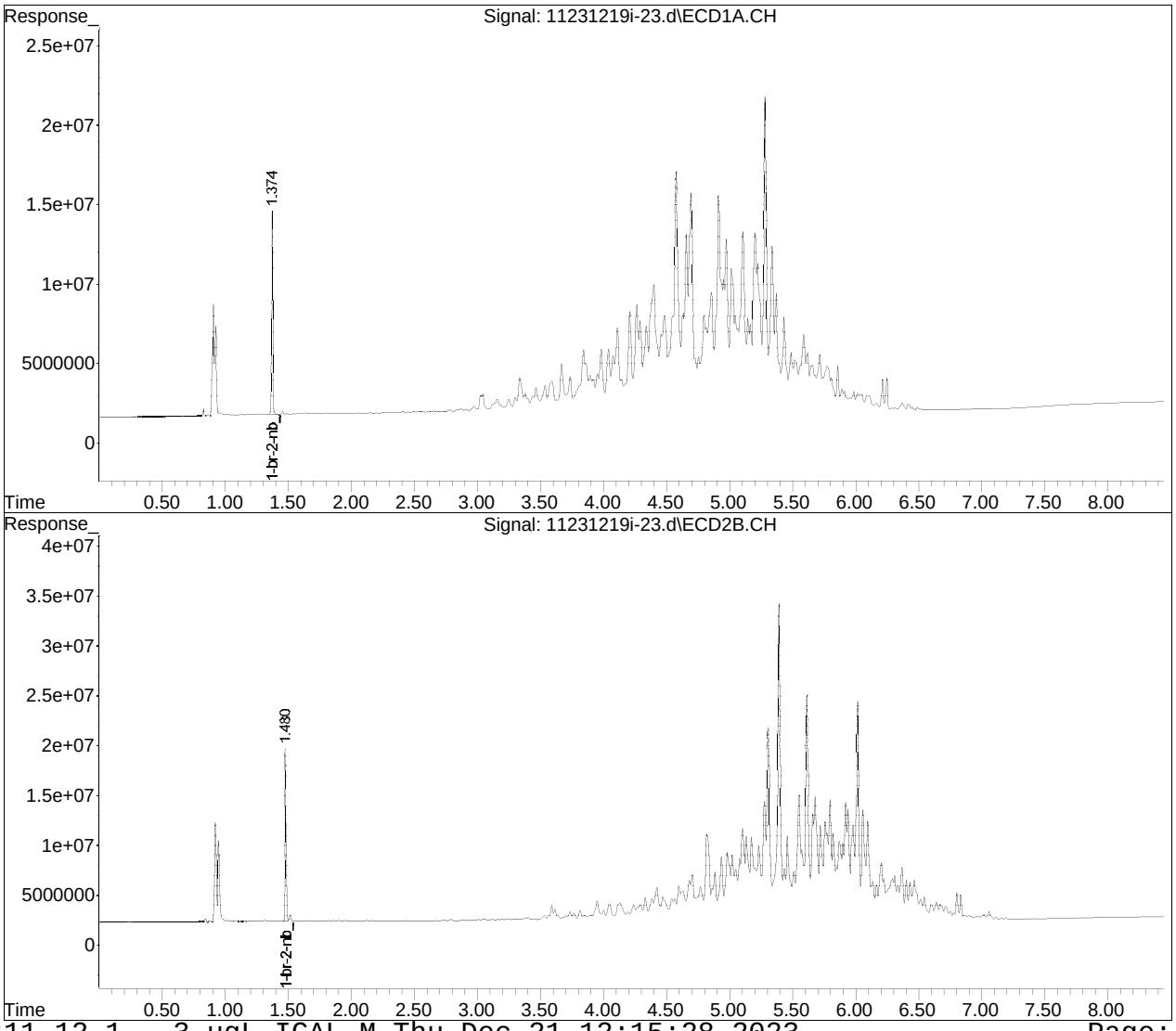
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest11\2023\231219ICAL\
Data File : 11231219i-23.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 19 Dec 2023 5:45 pm
Operator : PEST11:ejl
Sample : il8tox,42e,,pp 11327 L2.0
Misc : WG1866910,ical (Sig #1); ical (Sig #2)
ALS Vial : 23 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 20 18:41:35 2023
Quant Method : I:\PEST\Pest11\2023\231219ICAL\pest11_12_19_23_ugL_ICAL.M
Quant Title : pest
QLast Update : Wed Dec 20 18:39:57 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

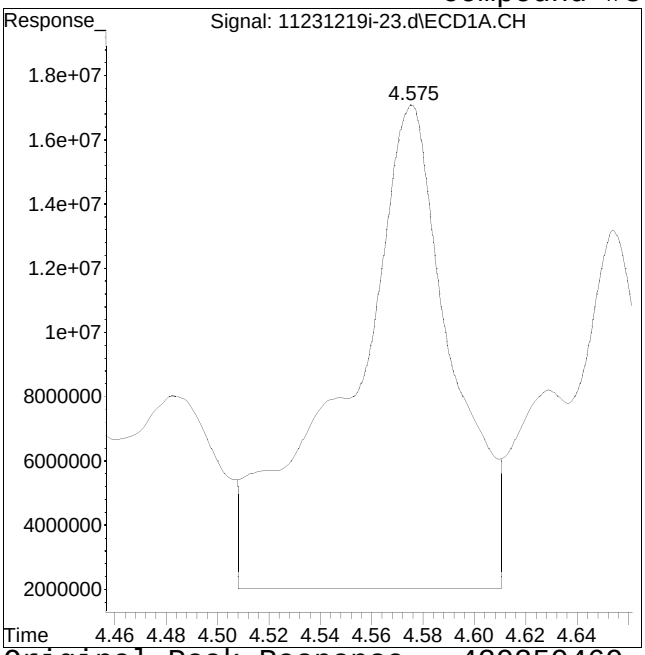
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

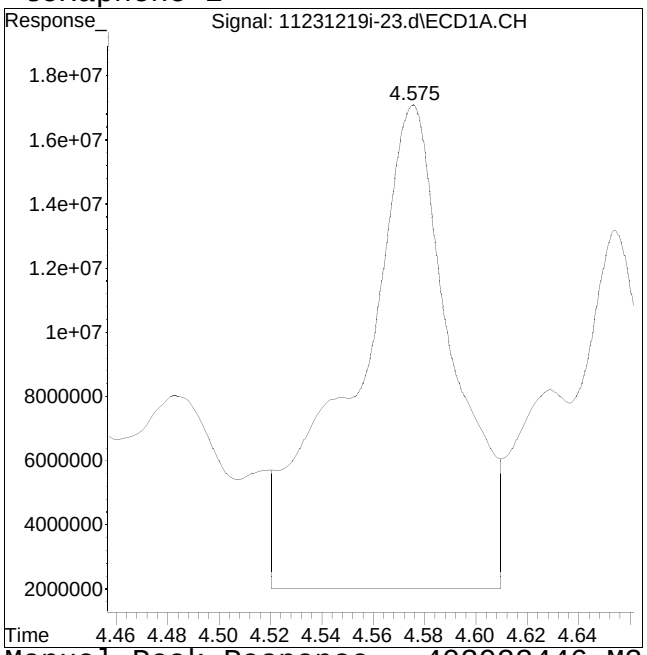


Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-23.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 5:45 pm Instrument : Pest 11
Sample : il8tox,42e,,pp 11327 L2.0 Quant Date : 12/20/2023 6:41 pm

Compound #34: toxaphene-2





Original Peak Response = 429359469 Manual Peak Response = 403923446 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2023\231219ICAL\
Data File : 11231219i-24.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 19 Dec 2023 5:57 pm
Operator : PEST11:ejl
Sample : il9tox,42e,,pp 11326 L5.0
Misc : WG1866910,ical (Sig #1); ical (Sig #2)
ALS Vial : 24 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 20 18:42:31 2023
Quant Method : I:\PEST\Pest11\2023\231219ICAL\pest11_12_19_23_ugL_ICAL.M
Quant Title : pest
QLast Update : Wed Dec 20 18:42:00 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
		Internal Standards						
1)	i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28)	i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33)	i	1-br-2-nb_To	1.375	1.481	81720090	107.4E6	25.000M4	25.000M4
		System Monitoring Compounds						
2)	s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
		Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
27)	s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
		Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
		Target Compounds						
3)	t	Hexachlorobe	0.000	0.000	0	0	N.D.	N.D.
4)	t	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)	t	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6)	t	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	t	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8)	t	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9)	t	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10)	t	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11)	t	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12)	t	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13)	t	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14)	t	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15)	t	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16)	t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17)	t	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18)	t	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19)	t	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20)	t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21)	t	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22)	t	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest11\2023\231219ICAL\
Data File : 11231219i-24.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 19 Dec 2023 5:57 pm
Operator : PEST11:ejl
Sample : il9tox,42e,,pp 11326 L5.0
Misc : WG1866910,ical (Sig #1); ical (Sig #2)
ALS Vial : 24 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 20 18:42:31 2023
Quant Method : I:\PEST\Pest11\2023\231219ICAL\pest11_12_19_23_ugL_ICAL.M
Quant Title : pest
QLast Update : Wed Dec 20 18:42:00 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
23) t	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
24) t	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25) t	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26) t	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-2	4.575	5.279	1001.1E6	492.5E6	4945.105M3	5099.822
35) l2	toxaphene-3	4.697	5.309	745.7E6	726.6E6	5108.187	5079.631
36) l2	toxaphene-4	4.913	5.615	833.3E6	852.2E6	5112.038	5110.098
37) l2	toxaphene-5	5.283	6.017	760.9E6	788.7E6	5037.973	5099.455
Sum	toxaphene-2			3341.0E6	2860.0E6	20203.304	20389.006
Average	toxaphene-2					5050.826	5097.252

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-2			3341.0E6	2860.0E6	20203.304	20389.006
Average	toxaphene-2					5050.826	5097.252

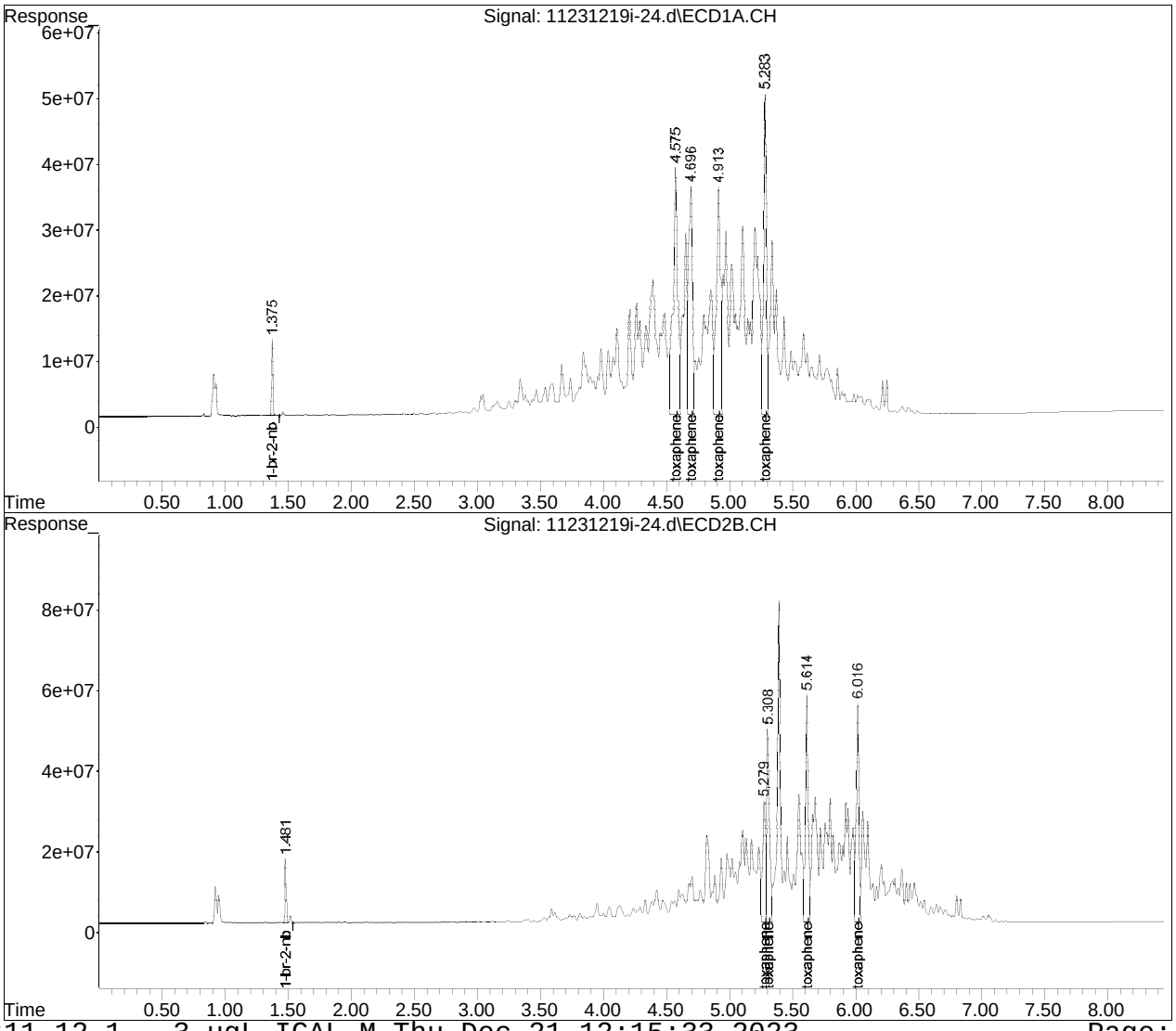
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest11\2023\231219ICAL\
Data File : 11231219i-24.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 19 Dec 2023 5:57 pm
Operator : PEST11:ejl
Sample : il9tox,42e,,pp 11326 L5.0
Misc : WG1866910,ical (Sig #1); ical (Sig #2)
ALS Vial : 24 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 20 18:42:31 2023
Quant Method : I:\PEST\Pest11\2023\231219ICAL\pest11_12_19_23_ugL_ICAL.M
Quant Title : pest
QLast Update : Wed Dec 20 18:42:00 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

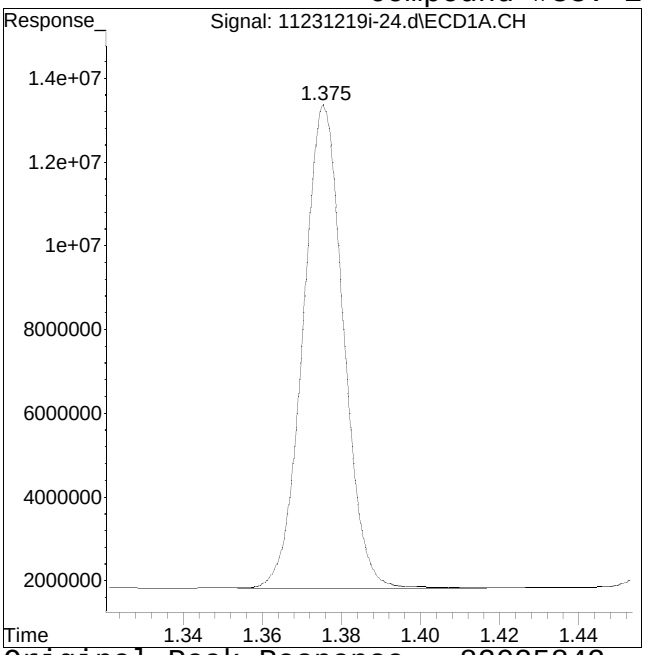
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



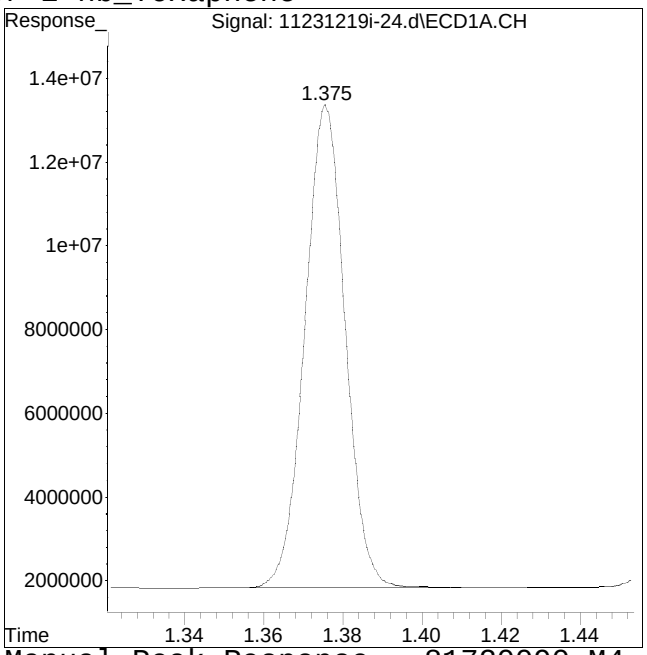
Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-24.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 5:57 pm Instrument : Pest 11
Sample : il9tox,42e,,pp 11326 L5.0 Quant Date : 12/20/2023 6:42 pm

Compound #33: 1-br-2-nb_Toxaphene



Original Peak Response = 82025842



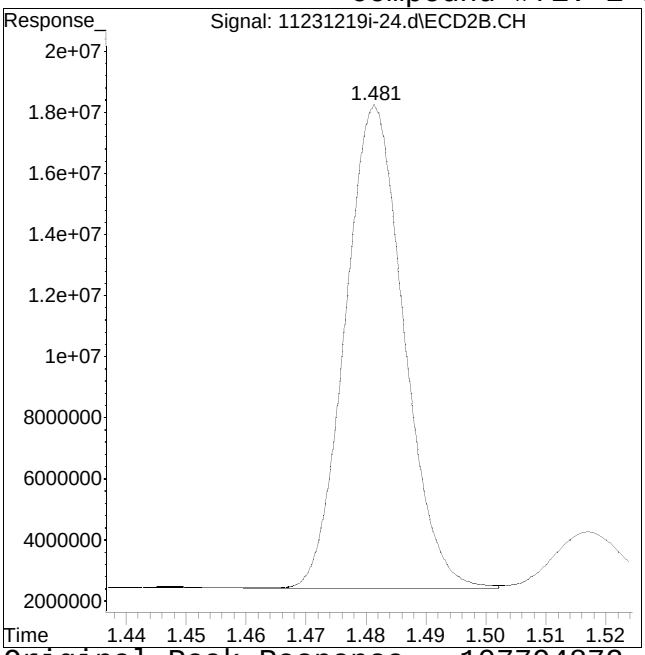
Manual Peak Response = 81720090 M4

M4 = Poor automated baseline construction.

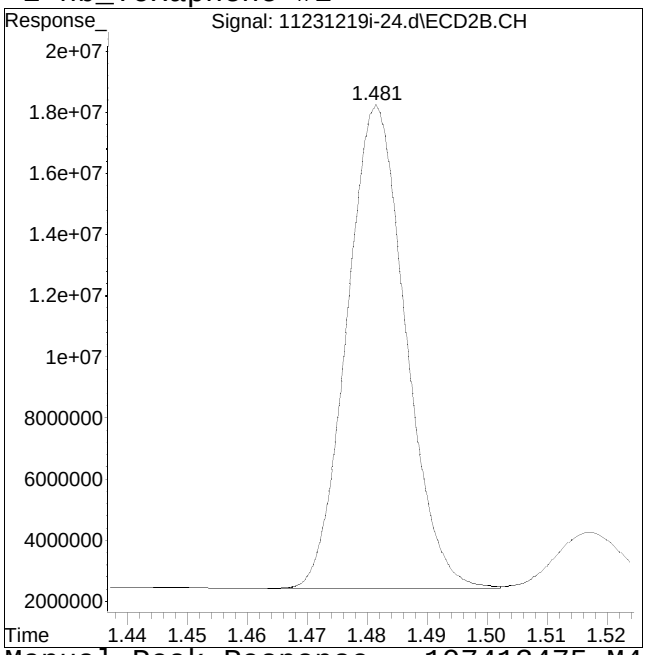
Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-24.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 5:57 pm Instrument : Pest 11
Sample : il9tox,42e,,pp 11326 L5.0 Quant Date : 12/20/2023 6:42 pm

Compound #71: 1-br-2-nb_Toxaphene #2



Original Peak Response = 107794872



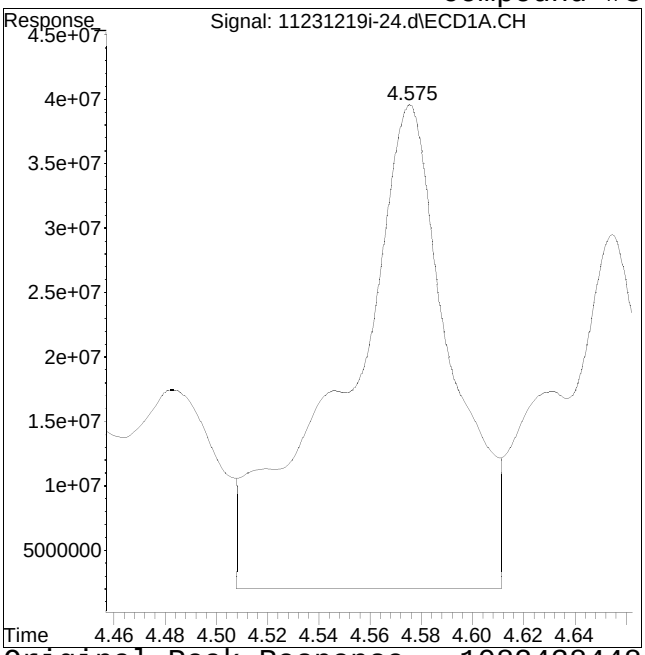
Manual Peak Response = 107413475 M4

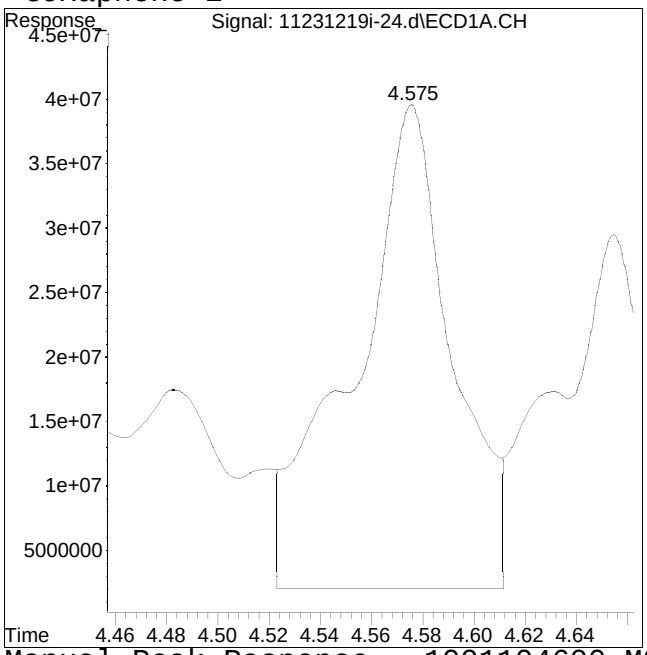
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-24.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 5:57 pm Instrument : Pest 11
Sample : il9tox,42e,,pp 11326 L5.0 Quant Date : 12/20/2023 6:42 pm

Compound #34: toxaphene-2





Original Peak Response = 1082438448 Manual Peak Response = 1001104600 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Initial Calibration Verification

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest11\2023\231219ICAL\
Data File : 11231219i-25.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 19 Dec 2023   6:09 pm
Operator : PEST11:ejl
Sample   : cicvtox,42e,,pp 11438 L2.0ICV
Misc   : WG1866910,ical (Sig #1); ical (Sig #2)
ALS Vial : 25 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 20 18:46:13 2023
Quant Method : I:\PEST\Pest11\2023\231219ICAL\pest11_12_19_23_ugL_ICAL.M
Quant Title : pest
QLast Update : Wed Dec 20 18:44:10 2023
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
33	i	1-br-2-nb_Toxaphene	^	1.000	1.000	0.0	109	0.00
34	l2	toxaphene-2		0.059	0.057	3.4	99	0.00
35	l2	toxaphene-3		0.043	0.039	9.3	94	0.00
36	l2	toxaphene-4		0.050	0.044	12.0	95	0.00
37	l2	toxaphene-5		0.045	0.041	8.9	96	0.00

Signal #2

33	i	1-br-2-nb_Toxaphene	^	1.000	1.000	0.0	107	0.00
34	l2	toxaphene-2		0.022	0.021	4.5	100	0.00
35	l2	toxaphene-3		0.033	0.031	6.1	100	0.00
36	l2	toxaphene-4		0.038	0.034	10.5	92	0.00
37	l2	toxaphene-5		0.036	0.034	5.6	99	0.00

Evaluate Continuing Calibration Report - Not Founds

1	i	1-br-2-nb_Pesticides	^	1.000	1.000	0.0	0	-1.37#
2	s	2,4,5,6-Tetrachloro-m-xylen		0.958	0.000	100.0#	0#	-1.73#
3	t	Hexachlorobenzene		1.110	0.000	100.0#	0#	-1.95#
4	t	alpha-BHC		1.338	0.000	100.0#	0#	-2.05#
5	t	gamma-BHC (lindane)		1.278	0.000	100.0#	0#	-2.26#
6	t	beta-BHC	*	50.000	0.000	100.0#	0	-2.32#
7	t	delta-BHC		1.294	0.000	100.0#	0#	-2.45#
8	t	Heptachlor		1.309	0.000	100.0#	0#	-2.62#
9	t	Aldrin		1.187	0.000	100.0#	0#	-2.87#
10	t	Alachlor		0.192	0.000	100.0#	0#	-2.99#
11	t	Chlorpyrifos	*	50.000	0.000	100.0#	0	-3.09#
12	t	Heptachlor Epoxide		1.198	0.000	100.0#	0#	-3.43#
13	t	gamma-Chlordane (trans)		1.091	0.000	100.0#	0#	-3.56#

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest11\2023\231219ICAL\
Data File : 11231219i-25.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 19 Dec 2023   6:09 pm
Operator : PEST11:ejl
Sample   : cicvtox,42e,,pp 11438 L2.0ICV
Misc   : WG1866910,ical (Sig #1); ical (Sig #2)
ALS Vial : 25 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 20 18:46:13 2023
Quant Method : I:\PEST\Pest11\2023\231219ICAL\pest11_12_19_23_ugL_ICAL.M
Quant Title : pest
QLast Update : Wed Dec 20 18:44:10 2023
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
14	t	alpha-Chlordane (cis)		1.241	0.000	100.0#	0#	-3.69#
15	t	4,4'-DDE		1.126	0.000	100.0#	0#	-3.79#
16	t	Endosulfan I		1.172	0.000	100.0#	0#	-3.84#
17	t	Dieldrin		1.168	0.000	100.0#	0#	-4.10#
18	t	Endrin		1.186	0.000	100.0#	0#	-4.35#
19	t	4,4'-DDD		0.934	0.000	100.0#	0#	-4.45#
20	t	Endosulfan II		1.095	0.000	100.0#	0#	-4.58#
21	t	4,4'-DDT		1.111	0.000	100.0#	0#	-4.74#
22	t	Endrin Aldehyde	*	50.000	0.000	100.0#	0	-4.99#
23	t	Methoxychlor	*	50.000	0.000	100.0#	0	-5.21#
24	t	Mirex	*	50.000	0.000	100.0#	0	-5.27#
25	t	Endosulfan Sulfate		1.076	0.000	100.0#	0#	-5.37#
26	t	Endrin Ketone		1.215	0.000	100.0#	0#	-5.60#
27	s	Decachlorobiphenyl	*	50.000	0.000	100.0#	0	-6.39#
28	i	1-br-2-nb_Chlordane	^	1.000	1.000	0.0	0	-1.38#
29	l1	chlordane-1	*	1000.000	0.000	100.0#	0	-2.56#
30	l1	chlordane-3	*	1000.000	0.000	100.0#	0	-2.98#
31	l1	chlordane-4	*	1000.000	0.000	100.0#	0	-3.56#
32	l1	chlordane-5	*	1000.000	0.000	100.0#	0	-3.69#

Signal #2

1	i	1-br-2-nb_Pesticides	^	1.000	1.000	0.0	0	-1.48#
2	s	2,4,5,6-Tetrachloro-m-xyl		0.995	0.000	100.0#	0#	-1.99#
3	t	Hexachlorobenzene	*	50.000	0.000	100.0#	0	-2.33#
4	t	alpha-BHC		1.388	0.000	100.0#	0#	-2.43#
5	t	gamma-BHC (lindane)		1.315	0.000	100.0#	0#	-2.73#
6	t	beta-BHC	*	50.000	0.000	100.0#	0	-2.80#
7	t	delta-BHC		1.309	0.000	100.0#	0#	-3.08#

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest11\2023\231219ICAL\
Data File : 11231219i-25.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 19 Dec 2023   6:09 pm
Operator : PEST11:ejl
Sample   : cicvtox,42e,,pp 11438 L2.0ICV
Misc   : WG1866910,ical (Sig #1); ical (Sig #2)
ALS Vial : 25 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 20 18:46:13 2023
Quant Method : I:\PEST\Pest11\2023\231219ICAL\pest11_12_19_23_ugL_ICAL.M
Quant Title : pest
QLast Update : Wed Dec 20 18:44:10 2023
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
8	t	Heptachlor		1.356	0.000	100.0#	0#	-3.15#
9	t	Aldrin		1.227	0.000	100.0#	0#	-3.49#
10	t	Alachlor	*	50.000	0.000	100.0#	0	-3.36#
11	t	Chlorpyrifos	*	50.000	0.000	100.0#	0	-3.73#
12	t	Heptachlor Epoxide	*	50.000	0.000	100.0#	0	-4.13#
13	t	gamma-Chlordane (trans)		1.105	0.000	100.0#	0#	-4.35#
14	t	alpha-Chlordane (cis)	*	50.000	0.000	100.0#	0	-4.51#
15	t	4,4'-DDE		1.127	0.000	100.0#	0#	-4.69#
16	t	Endosulfan I		1.127	0.000	100.0#	0#	-4.57#
17	t	Dieldrin		1.127	0.000	100.0#	0#	-4.84#
18	t	Endrin		1.130	0.000	100.0#	0#	-5.13#
19	t	4,4'-DDD		0.897	0.000	100.0#	0#	-5.24#
20	t	Endosulfan II		1.018	0.000	100.0#	0#	-5.32#
21	t	4,4'-DDT	*	50.000	0.000	100.0#	0	-5.51#
22	t	Endrin Aldehyde	*	50.000	0.000	100.0#	0	-5.61#
23	t	Methoxychlor	*	50.000	0.000	100.0#	0	-6.06#
24	t	Mirex	*	50.000	0.000	100.0#	0	-6.21#
25	t	Endosulfan Sulfate		0.994	0.000	100.0#	0#	-5.83#
26	t	Endrin Ketone		1.068	0.000	100.0#	0#	-6.24#
27	s	Decachlorobiphenyl	*	50.000	0.000	100.0#	0	-7.08#
28	i	1-br-2-nb_Chlordane	^	1.000	1.000	0.0	0	-1.48#
29	l1	chlordane-1	*	1000.000	0.000	100.0#	0	-3.01#
30	l1	chlordane-3	*	1000.000	0.000	100.0#	0	-3.65#
31	l1	chlordane-4	*	1000.000	0.000	100.0#	0	-4.35#
32	l1	chlordane-5	*	1000.000	0.000	100.0#	0	-4.51#

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0
(^) = ISTD area calculated using ICAL average

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2023\231219ICAL\
Data File : 11231219i-25.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 19 Dec 2023 6:09 pm
Operator : PEST11:ejl
Sample : cicvtox,42e,,pp 11438 L2.0ICV
Misc : WG1866910,ical (Sig #1); ical (Sig #2)
ALS Vial : 25 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 20 18:46:13 2023
Quant Method : I:\PEST\Pest11\2023\231219ICAL\pest11_12_19_23_ugL_ICAL.M
Quant Title : pest
QLast Update : Wed Dec 20 18:44:10 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	1.376	1.481	87653458	115.5E6	25.000	25.000M4
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150	Recovery	=	0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150	Recovery	=	0.00%#	0.00%#
	Target Compounds						
3) t	Hexachlorobe	0.000	0.000	0	0	N.D.	N.D.
4) t	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5) t	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6) t	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7) t	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8) t	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9) t	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10) t	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11) t	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12) t	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13) t	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14) t	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15) t	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17) t	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18) t	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19) t	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21) t	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22) t	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d
23) t	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2023\231219ICAL\
Data File : 11231219i-25.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 19 Dec 2023 6:09 pm
Operator : PEST11:ejl
Sample : cicvtox,42e,,pp 11438 L2.0ICV
Misc : WG1866910,ical (Sig #1); ical (Sig #2)
ALS Vial : 25 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 20 18:46:13 2023
Quant Method : I:\PEST\Pest11\2023\231219ICAL\pest11_12_19_23_ugL_ICAL.M
Quant Title : pest
QLast Update : Wed Dec 20 18:44:10 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
24) t	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25) t	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26) t	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-2	4.575	5.279	399.7E6	197.8E6	1916.522M3	1969.012
35) l2	toxaphene-3	4.697	5.308	273.6E6	290.4E6	1830.644	1887.930
36) l2	toxaphene-4	4.913	5.615	309.1E6	314.2E6	1766.117	1781.451
37) l2	toxaphene-5	5.283	6.016	288.7E6	311.3E6	1819.606	1856.232
Sum	toxaphene-2			1271.2E6	1113.7E6	7332.889	7494.625
Average	toxaphene-2					1833.222	1873.656

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-2			1271.2E6	1113.7E6	7332.889	7494.625
Average	toxaphene-2					1833.222	1873.656

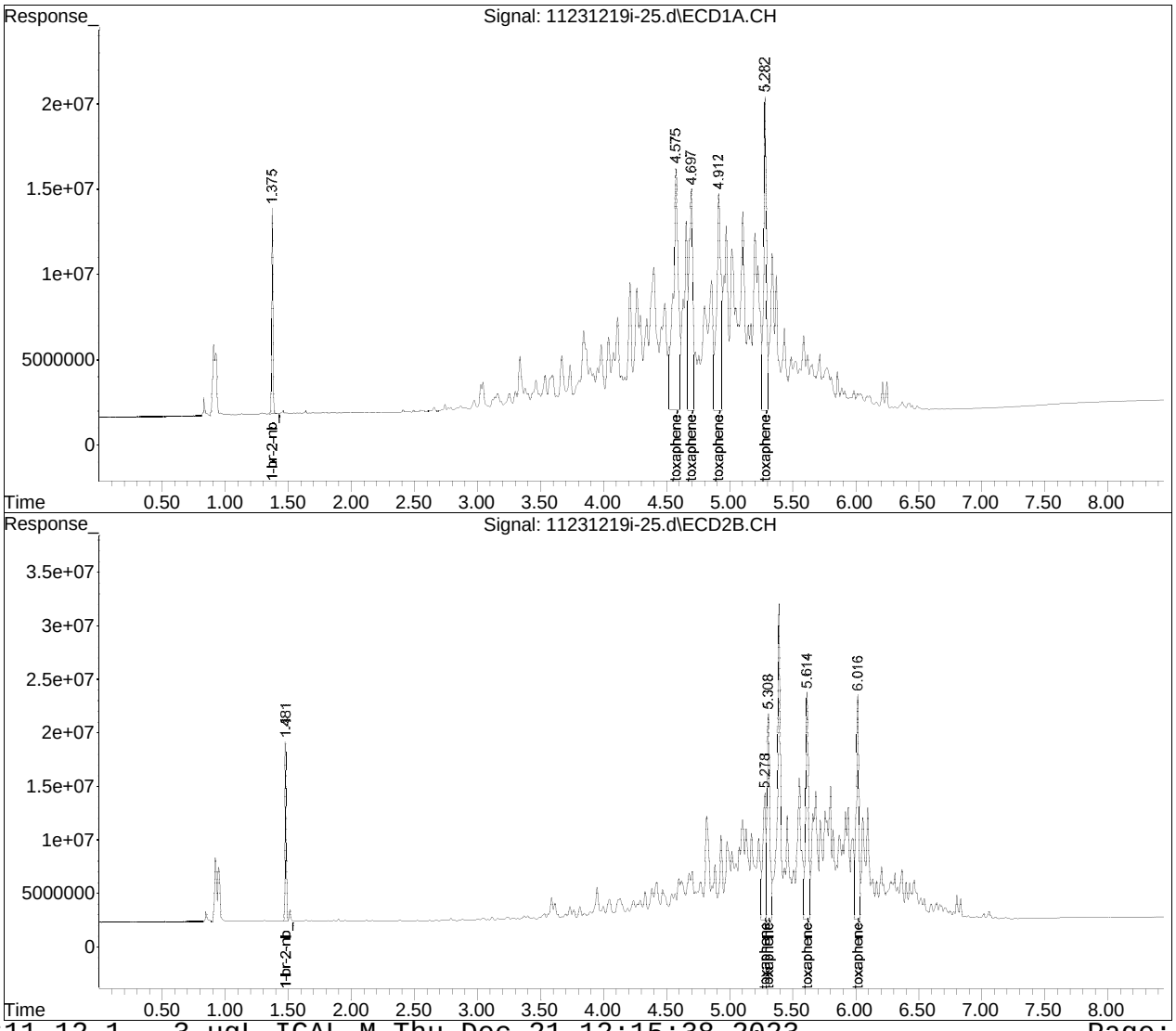
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest11\2023\231219ICAL\
Data File : 11231219i-25.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 19 Dec 2023 6:09 pm
Operator : PEST11:ejl
Sample : cicvtox,42e,,pp 11438 L2.0ICV
Misc : WG1866910,ical (Sig #1); ical (Sig #2)
ALS Vial : 25 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 20 18:46:13 2023
Quant Method : I:\PEST\Pest11\2023\231219ICAL\pest11_12_19_23_ugL_ICAL.M
Quant Title : pest
QLast Update : Wed Dec 20 18:44:10 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

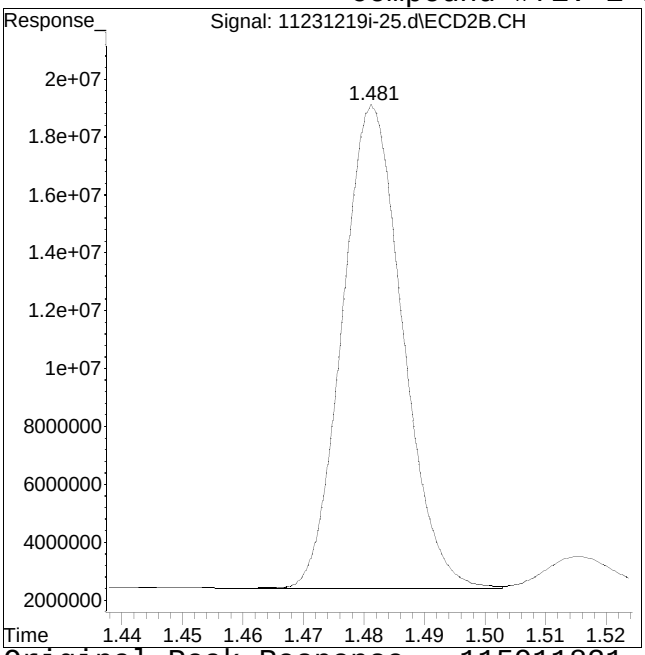
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

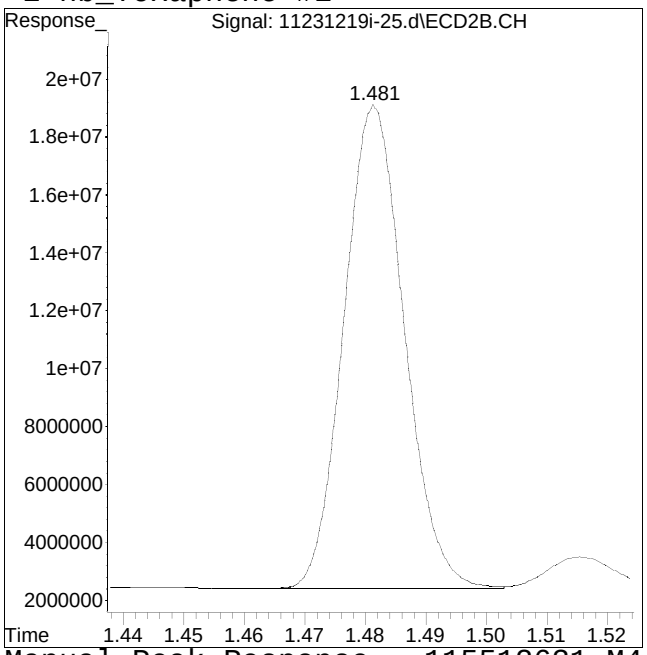


Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-25.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 6:09 pm Instrument : Pest 11
Sample : cicvtox,42e,,pp 11438 L2.0Quant Date : 12/20/2023 6:44 pm

Compound #71: 1-br-2-nb_Toxaphene #2



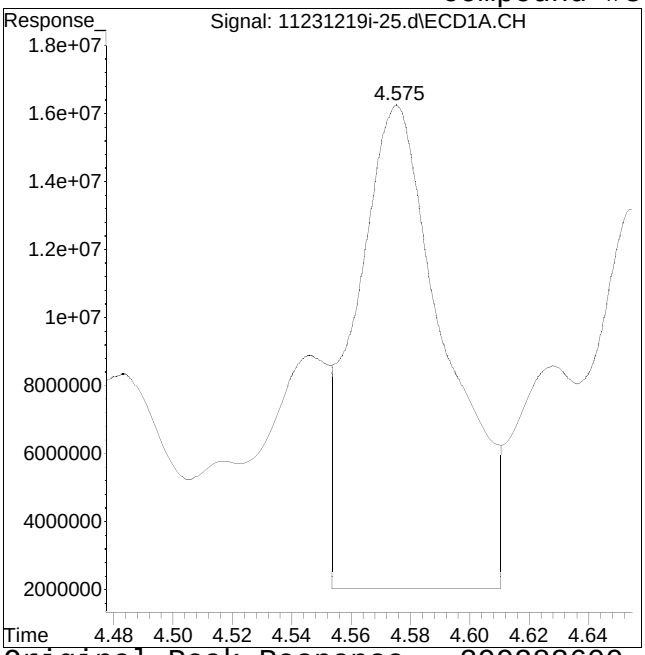


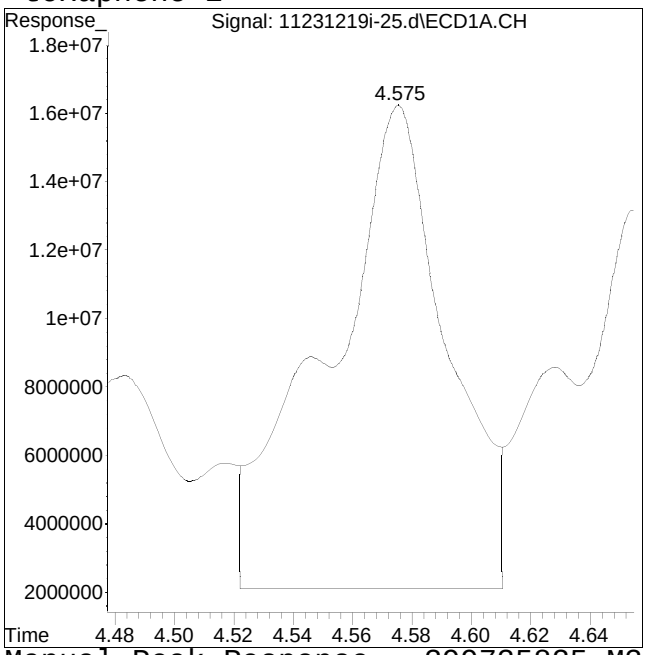
Original Peak Response = 115911821 Manual Peak Response = 115512631 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2023\231219QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11231219i-25.d Operator : PEST11:ejl
Date Inj'd : 12/19/2023 6:09 pm Instrument : Pest 11
Sample : cicvtox,42e,,pp 11438 L2.0Quant Date : 12/20/2023 6:44 pm

Compound #34: toxaphene-2





Original Peak Response = 299283600 Manual Peak Response = 399735825 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Evaluate Relative Error Report Pest 11

Method Path : I:\PEST\Pest11\2023\231219ICAL\
Method File : pest11_12_19_23_ugL_ICAL.M
Title : pest
Last Update : Wed Dec 20 18:44:10 2023

	COMPOUND	CalFit	Units	TrueMid	MidConc	%RE	TrueLow	LowConc	%RE
6	T beta-BHC	L	ug/l	50.0	49.918	-0.2	1.00	0.873	-12.7
11	T Chlorpyrifos	L	ug/l	50.0	52.458	4.9	2.00	1.637	-18.1
22	T Endrin Aldehyde	L	ug/l	50.0	49.406	-1.2	2.00	1.971	-1.4
23	T Methoxychlor	L	ug/l	50.0	51.119	2.2	1.00	0.879	-12.1
24	T Mirex	L	ug/l	50.0	50.274	0.5	2.00	1.751	-12.5
27	S Decachlorobiphenyl	L	ug/l	50.0	51.667	3.3	2.00	1.622	-18.9
29	L1 chlordane-1	L	ug/l	1000.0	1020.845	2.1	10.00	9.787	-2.1
30	L1 chlordane-3	L	ug/l	1000.0	1070.424	7.0	10.00	7.378	-26.2
31	L1 chlordane-4	L	ug/l	1000.0	1036.214	3.6	10.00	10.156	1.6
32	L1 chlordane-5	L	ug/l	1000.0	1043.504	4.4	10.00	9.862	-1.4
41	T Hexachlorobenzene #2	L	ug/l	50.0	49.694	-0.6	1.00	0.835	-16.5
44	T beta-BHC #2	L	ug/l	50.0	49.624	-0.8	1.00	0.792	-20.8
48	T Alachlor #2	L	ug/l	50.0	54.370	8.7	2.00	1.412	-29.4
49	T Chlorpyrifos #2	L	ug/l	50.0	52.385	4.8	2.00	1.474	-26.3
50	T Heptachlor Epoxide #2	L	ug/l	50.0	48.712	-2.6	1.00	0.935	-6.5
52	T alpha-Chlordane (cis) #2	L	ug/l	50.0	48.037	-3.9	1.00	0.965	-3.5
59	T 4,4'-DDT #2	L	ug/l	50.0	47.323	-5.4	1.00	1.059	5.9
60	T Endrin Aldehyde #2	L	ug/l	50.0	47.702	-4.6	2.00	1.964	-1.8
61	T Methoxychlor #2	L	ug/l	50.0	49.774	-0.5	1.00	0.705	-29.5
62	T Mirex #2	L	ug/l	50.0	49.902	-0.2	2.00	1.674	-16.3
65	S Decachlorobiphenyl #2	L	ug/l	50.0	50.092	0.2	2.00	1.705	-14.7
67	L1 chlordane-1 #2	L	ug/l	1000.0	1039.547	4.0	10.00	8.141	-18.6
68	L1 chlordane-3 #2	L	ug/l	1000.0	1097.549	9.8	10.00	5.750	-42.5
69	L1 chlordane-4 #2	L	ug/l	1000.0	1044.914	4.5	10.00	8.946	-10.5
70	L1 chlordane-5 #2	L	ug/l	1000.0	1045.391	4.5	10.00	8.705	-13.0

Calibration Correlation Report

	COMPOUND	CalFit	CoefOfDet	QuadTerm	LinTerm	Constant
6	T beta-BHC	Linear	0.999921	0.000000	0.564397	0.00771309
11	T Chlorpyrifos	Linear	0.998129	0.000000	0.546169	0.0262964
22	T Endrin Aldehyde	Linear	0.999648	0.000000	0.880565	0.00729479
23	T Methoxychlor	Linear	0.999099	0.000000	0.584257	0.0159014
24	T Mirex	Linear	0.999413	0.000000	0.900447	0.0368363
27	S Decachlorobiphenyl	Linear	0.998847	0.000000	0.8779	0.0411825
29	L1 chlordane-1	Linear	0.999568	0.000000	0.0364032	0.00242203
30	L1 chlordane-3	Linear	0.998663	0.000000	0.0408116	0.00960988
31	L1 chlordane-4	Linear	0.999639	0.000000	0.148784	0.00801056
32	L1 chlordane-5	Linear	0.999644	0.000000	0.229439	0.0158898
41	T Hexachlorobenzene #2	Linear	0.999906	0.000000	1.01213	0.0193921
44	T beta-BHC #2	Linear	0.999805	0.000000	0.552029	0.0130254
48	T Alachlor #2	Linear	0.995597	0.000000	0.152934	0.00886077
49	T Chlorpyrifos #2	Linear	0.997644	0.000000	0.571073	0.038082
50	T Heptachlor Epoxide #2	Linear	0.999932	0.000000	1.14215	0.0149391
52	T alpha-Chlordane (cis) #2	Linear	0.999816	0.000000	1.14825	0.0128488
59	T 4,4'-DDT #2	Linear	0.999558	0.000000	1.02098	0.00523935
60	T Endrin Aldehyde #2	Linear	0.999797	0.000000	0.80652	0.0107116
61	T Methoxychlor #2	Linear	0.999235	0.000000	0.506356	0.0153523
62	T Mirex #2	Linear	0.999330	0.000000	0.725032	0.0395803
65	S Decachlorobiphenyl #2	Linear	0.999732	0.000000	0.756532	0.032495
67	L1 chlordane-1 #2	Linear	0.999435	0.000000	0.0341341	0.00798943
68	L1 chlordane-3 #2	Linear	0.996797	0.000000	0.0355587	0.0149662
69	L1 chlordane-4 #2	Linear	0.999588	0.000000	0.129555	0.0197493
70	L1 chlordane-5 #2	Linear	0.999519	0.000000	0.101595	0.018141

Response Factor Report Pest 15

Method Path : I:\PEST\Pest15\2024\240108ical\
Method File : P15_pest_2024_01_08_ugL_ICAL.m
Title : pest
Last Update : Tue Jan 16 12:07:23 2024
Response Via : Initial Calibration

Calibration Files
1 =15240108i-03.D 2 =15240108i-04.D 3 =15240108i-22.D 4 =15240108i-15.D 5 =15240108i-16.D
7 =15240108i-08.D 8 =15240108i-09.D 9 =15240108i-24.D 10 =15240108i-11.D 11 =15240108i-12.D

		Compound	1	2	3	4	5	7	8	9	10	11	Avg	%RSD
1)	i	1-br-2-nb_Pesticides	----------ISTD----------											
2)	s	2,4,5,6-Tetra...		1.188	1.142	1.160	1.108	1.061	1.028	1.001	0.953	0.891	1.059	9.43
3)		Hexachloroben...			1.299	1.306	1.248	1.159	1.088	1.045	1.015	0.948	*L	0.997
9														
4)		alpha-BHC		1.377	1.338	1.395	1.350	1.351	1.426	1.405	1.390	1.318	1.372	2.56
5)		gamma-BHC (li...	1.410	1.358	1.301	1.334	1.293	1.267	1.307	1.279	1.259	1.189	1.300	4.61
6)		beta-BHC			0.714	0.714	0.683	0.626	0.588	0.572	0.561	0.528	*L	0.998
6														
7)		delta-BHC		1.365	1.268	1.305	1.270	1.255	1.317	1.303	1.294	1.231	1.290	3.05
8)		Heptachlor		1.460	1.368	1.395	1.352	1.273	1.271	1.227	1.179	1.069	1.288	9.33
9)		Aldrin		1.250	1.208	1.242	1.190	1.163	1.201	1.178	1.141	1.042	1.180	5.28
10)		Alachlor				0.232	0.228	0.209	0.189	0.175	0.163	0.144	*L	0.991
8														
11)		Chlorpyrifos				0.773	0.723	0.646	0.567	0.528	0.491	0.437	*L	0.992
8														
12)		Heptachlor Ep...		1.318	1.264	1.285	1.220	1.160	1.137	1.109	1.066	0.968	1.170	9.72
13)		gamma-Chlorda...		1.216	1.138	1.160	1.089	1.031	1.028	1.017	0.999	0.926	1.067	8.53
14)		alpha-Chlorda...		1.447	1.287	1.331	1.275	1.187	1.167	1.141	1.114	1.031	1.220	10.40
15)		4,4'-DDE		1.189	1.135	1.194	1.136	1.118	1.164	1.146	1.116	1.020	1.136	4.53
16)		Endosulfan I		1.254	1.162	1.200	1.144	1.087	1.079	1.052	1.010	0.925	1.101	9.13

Response Factor Report Pest 15

Method Path : I:\PEST\Pest15\2024\240108ical\
Method File : P15_pest_2024_01_08_ugL_ICAL.m
Title : pest
Last Update : Tue Jan 16 12:07:23 2024
Response Via : Initial Calibration

Calibration Files
1 =15240108i-03.D 2 =15240108i-04.D 3 =15240108i-22.D 4 =15240108i-15.D 5 =15240108i-16.D
7 =15240108i-08.D 8 =15240108i-09.D 9 =15240108i-24.D 10 =15240108i-11.D 11 =15240108i-12.D

		Compound	1	2	3	4	5	7	8	9	10	11	Avg	%RSD
17)		Dieldrin		1.237	1.178	1.198	1.149	1.104	1.138	1.121	1.095	1.007	1.136	5.86
18)		Endrin		1.262	1.207	1.247	1.184	1.146	1.170	1.148	1.114	1.022	1.167	6.19
19)		4,4'-DDD		1.316	1.087	1.054	0.987	0.936	0.960	0.945	0.928	0.856	1.008	13.36
20)		Endosulfan II		1.145	1.104	1.131	1.077	1.022	1.018	0.991	0.948	0.843	1.031	9.34
21)		4,4'-DDT		1.986	1.514	1.361	1.180	1.100	1.060	1.055	1.013	0.952	*L	0.998
4														
22)		Endrin Aldehyde		0.994	0.921	0.946	0.899	0.852	0.842	0.826	0.804	0.741	*L	0.997
5														
23)		Methoxychlor			0.699	0.705	0.675	0.627	0.583	0.550	0.521	0.469	0.603	14.44
24)		Mirex			1.126	1.142	1.085	0.987	0.897	0.851	0.823	0.758	0.959	15.39
25)		Endosulfan Su...		1.114	1.069	1.092	1.057	0.987	0.958	0.927	0.892	0.823	0.991	10.03
26)		Endrin Ketone		1.271	1.208	1.238	1.199	1.139	1.118	1.068	1.020	0.925	1.132	9.91
27)	s	Decachlorobip...			1.191	1.219	1.165	1.068	0.984	0.926	0.881	0.805	1.030	15.01
28)	i	1-br-2-nb_Chlordane	----------ISTD----------											
29)	l1	chlordane-1			0.000	0.000	0.000	0.000	0.000	0.000	2.707		*L E5	0.996
5														
30)	l1	chlordane-3			0.000	0.000	0.000	0.000	0.000	0.000	1.735		*L E5	0.994
9														
31)	l1	chlordane-4			0.000	0.000	0.000	0.000	0.000	0.000	6.246		*L E5	0.996
6														
32)	l1	chlordane-5			0.000	0.000	0.000	0.000	0.000	0.000	9.479		*L E5	0.996
1														

Method Path : I:\PEST\Pest15\2024\240108ical\
Method File : P15_pest_2024_01_08_ugL_ICAL.m
Title : pest
Last Update : Tue Jan 16 12:07:23 2024
Response Via : Initial Calibration

Calibration Files
1 =15240108i-03.D 2 =15240108i-04.D 3 =15240108i-22.D 4 =15240108i-15.D 5 =15240108i-16.D
7 =15240108i-08.D 8 =15240108i-09.D 9 =15240108i-24.D 10 =15240108i-11.D 11 =15240108i-12.D

		Compound	1	2	3	4	5	7	8	9	10	11	Avg		%RSD
33)	i	1-br-2-nb_Toxaphene	----------ISTD----------												
34)	l2	toxaphene-1			0.030			0.045	0.045				*L		1.0000
35)	l2	toxaphene-2			0.027			0.042	0.041				*L		0.9999
36)	l2	toxaphene-4			0.020			0.037	0.037				*L		1.0000
37)	l2	toxaphene-5			0.033			0.043	0.042				*L		0.9998

Signal #2 Calibration Files
1 =15240108i-03.D 2 =15240108i-04.D 3 =15240108i-22.D 4 =15240108i-15.D 5 =15240108i-16.D
7 =15240108i-08.D 8 =15240108i-09.D 9 =15240108i-24.D 10 =15240108i-11.D 11 =15240108i-12.D

		Compound	1	2	3	4	5	7	8	9	10	11	Avg		%RSD
1)	i	1-br-2-nb_Pesticides	----------ISTD----------												
2)	s	2,4,5,6-Tetra...			1.323	1.221	1.214	1.130	1.055	1.012	1.016	0.988	0.951	1.101	11.55
3)		Hexachloroben...				1.384	1.353	1.267	1.145	1.048	1.042	1.011	0.980	*L	0.9994
4)		alpha-BHC			1.473	1.394	1.384	1.316	1.288	1.335	1.366	1.358	1.338	1.361	3.91
5)		gamma-BHC (li...		1.517	1.438	1.352	1.333	1.264	1.205	1.208	1.233	1.219	1.197	1.297	8.53
6)		beta-BHC				0.757	0.747	0.693	0.620	0.549	0.549	0.536	0.524	*L	0.9997
7)		delta-BHC			1.476	1.337	1.324	1.255	1.194	1.221	1.254	1.251	1.236	*L	0.9999
8)		Heptachlor			1.505	1.374	1.353	1.276	1.177	1.123	1.135	1.099	1.053	1.233	12.36
9)		Aldrin			1.355	1.250	1.243	1.167	1.086	1.078	1.101	1.088	1.049	1.157	8.96

Response Factor Report Pest 15

Method Path : I:\PEST\Pest15\2024\240108ical\
Method File : P15_pest_2024_01_08_ugL_ICAL.m
Title : pest
Last Update : Tue Jan 16 12:07:23 2024
Response Via : Initial Calibration

Calibration Files
1 =15240108i-03.D 2 =15240108i-04.D 3 =15240108i-22.D 4 =15240108i-15.D 5 =15240108i-16.D
7 =15240108i-08.D 8 =15240108i-09.D 9 =15240108i-24.D 10 =15240108i-11.D 11 =15240108i-12.D

	Compound	1	2	3	4	5	7	8	9	10	11	Avg	%RSD
10)	Alachlor				0.306	0.301	0.275	0.241	0.225	0.214	0.198	*L	0.996
11)	Chlorpyrifos				0.786	0.730	0.626	0.514	0.485	0.451	0.421	*L	0.996
12)	Heptachlor Ep...	1.402	1.285	1.273	1.194	1.091	1.021	1.021	0.997	0.954		*L	0.999
13)	gamma-Chlorda...	1.282	1.171	1.157	1.084	0.977	0.910	0.918	0.913	0.894		1.034	13.87
14)	alpha-Chlorda...	1.426	1.307	1.284	1.208	1.094	1.022	1.026	1.011	0.985		*L	0.999
15)	4,4'-DDE	1.288	1.202	1.190	1.120	1.047	1.045	1.065	1.055	1.021		1.115	8.25
16)	Endosulfan I	1.302	1.196	1.190	1.121	1.017	0.955	0.957	0.934	0.897		*L	0.999
17)	Dieldrin	1.257	1.176	1.165	1.094	1.010	0.983	0.995	0.979	0.947		1.067	10.26
18)	Endrin	1.365	1.204	1.192	1.155	1.040	0.991	0.993	0.964	0.923		*L	0.999
19)	4,4'-DDD	1.327	1.072	1.012	0.929	0.849	0.816	0.826	0.816	0.796		*L	0.999
20)	Endosulfan II	1.174	1.062	1.076	1.022	0.930	0.873	0.871	0.839	0.787		*L	0.998
21)	4,4'-DDT	2.148	1.490	1.278	1.116	0.974	0.899	0.895	0.874	0.849		*L	0.999
22)	Endrin Aldehyde	0.984	0.917	0.910	0.859	0.775	0.728	0.730	0.717	0.693		*L	0.999
23)	Methoxychlor			0.673	0.667	0.627	0.545	0.469	0.452	0.432	0.411	*L	0.998
24)	Mirex			1.051	1.042	0.970	0.839	0.714	0.688	0.663	0.639	*L	0.998
25)	Endosulfan Su...	1.140	1.050	1.032	0.968	0.872	0.802	0.796	0.773	0.746		*L	0.999

Method Path : I:\PEST\Pest15\2024\240108ical\
Method File : P15_pest_2024_01_08_ugL_ICAL.m
Title : pest
Last Update : Tue Jan 16 12:07:23 2024
Response Via : Initial Calibration

Calibration Files
1 =15240108i-03.D 2 =15240108i-04.D 3 =15240108i-22.D 4 =15240108i-15.D 5 =15240108i-16.D
7 =15240108i-08.D 8 =15240108i-09.D 9 =15240108i-24.D 10 =15240108i-11.D 11 =15240108i-12.D

		Compound	1	2	3	4	5	7	8	9	10	11	Avg	%RSD
26)		Endrin Ketone	1.265	1.161	1.156	1.086	0.997	0.934	0.922	0.887	0.845		1.028	14.11
27)	s	Decachlorobip...			1.133	1.113	1.036	0.903	0.785	0.755	0.723	0.697	*L	0.998
7														
28)	i	1-br-2-nb_Chlordane	----------ISTD----------											
29)	l1	chlordane-1			0.000	0.000	0.000	0.000	0.000	0.000	1.707		*L E5	0.998
1														
30)	l1	chlordane-3			0.000	0.000	0.000	0.000	0.000	0.000	1.025		*L E5	0.995
5														
31)	l1	chlordane-4			0.000	0.000	0.000	0.000	0.000	0.000	3.566		*L E5	0.998
2														
32)	l1	chlordane-5			0.000	0.000	0.000	0.000	0.000	0.000	2.864		*L E5	0.998
3														
33)	i	1-br-2-nb_Toxaphene	----------ISTD----------											
34)	l2	toxaphene-1			0.013			0.021	0.021				*L	1.000
0														
35)	l2	toxaphene-2			0.025			0.031	0.031				*L	1.000
0														
36)	l2	toxaphene-4			0.028			0.037	0.037				*L	1.000
0														
37)	l2	toxaphene-5			0.028			0.033	0.033				*L	1.000
0														

(#) = Out of Range ### Number of calibration levels exceeded format ###

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest15\2024\240108ical\
Data File : 15240108i-02.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 8 Jan 2024 2:48 pm
Operator : Pest15:akm
Sample : pem15240108-01,42e,,pp 11372 -- (Sig #1); pem-01,42e,,pp 11372 -- (Sig #2)
Misc : WG1874875, (Sig #1); ical (Sig #2)
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Jan 12 12:12:21 2024
Quant Method : I:\PEST\Pest15\2024\240108ical\P15_pest_2024_01_08_ugL_ICAL.m
Quant Title : pest
QLast Update : Fri Jan 12 11:56:47 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : DEG - DDT/Endrin degradation check

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l	
	Internal Standards							
1) i	1-br-2-nb_Pe	1.251	1.332	92553332	70843227	25.000	25.000	
	System Monitoring Compounds							
	Target Compounds							
15)	4,4'-DDE	3.653	4.478	363302	326101	0.086	0.103M4	
18)	Endrin	4.206	4.933	271.8E6	150.7E6	62.917	48.721	
19)	4,4'-DDD	4.318	5.056	2178180	1565486	0.584	0.010M4	D
21)	4,4'-DDT	4.611	5.335	494.1E6	272.5E6	134.683	110.591M4	
22)	Endrin Aldeh	4.868	5.432	506825	395204	0.157	N.D. M4	D
26)	Endrin Keton	5.492	6.076	1413479	990844	0.337M4	0.340	
	Sum chlordane-1			0	0	N.D.	N.D.	
Average	chlordane-1					0.000	0.000	
	Sum toxaphene-1			0	0	N.D.	N.D.	
Average	toxaphene-1					0.000	0.000	
	SemiQuant Compounds - Not Calibrated on this Instrument							
	Sum toxaphene-1			0	0	N.D.	N.D.	
Average	toxaphene-1					0.000	0.000	

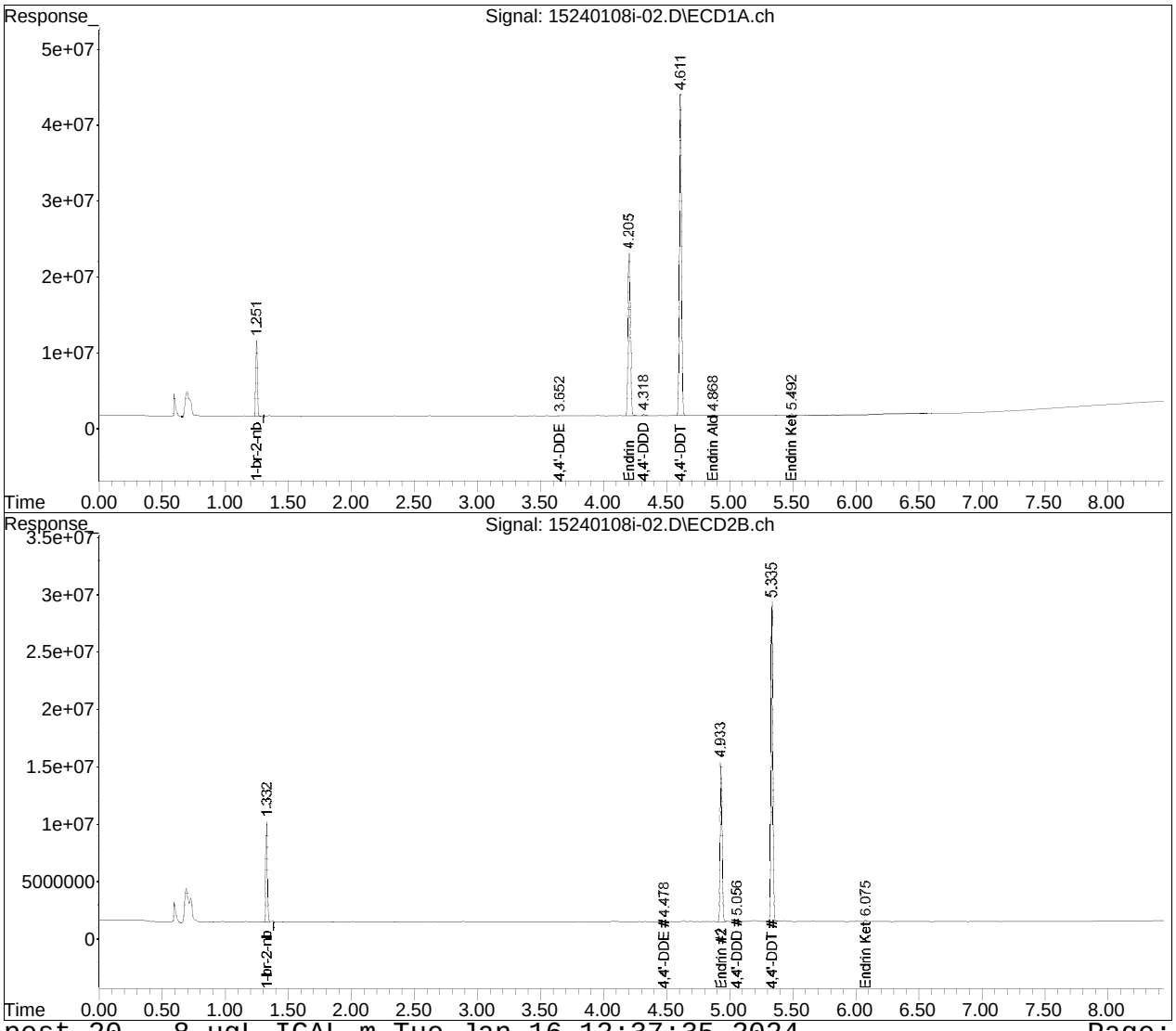
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : DEG - DDT/Endrin degradation checkiewed)

Data Path : I:\PEST\Pest15\2024\240108ical\
Data File : 15240108i-02.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 8 Jan 2024 2:48 pm
Operator : Pest15:akm
Sample : pem15240108-01,42e,,pp 11372 -- (Sig #1); pem-01,42e,,pp 11372 --
Misc : WG1874875, (Sig #1); ical (Sig #2)
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Jan 12 12:12:21 2024
Quant Method : I:\PEST\Pest15\2024\240108ical\P15_pest_2024_01_08_ugL_ICAL.m
Quant Title : pest
QLast Update : Fri Jan 12 11:56:47 2024
Response via : Initial Calibration
Integrator: ChemStation

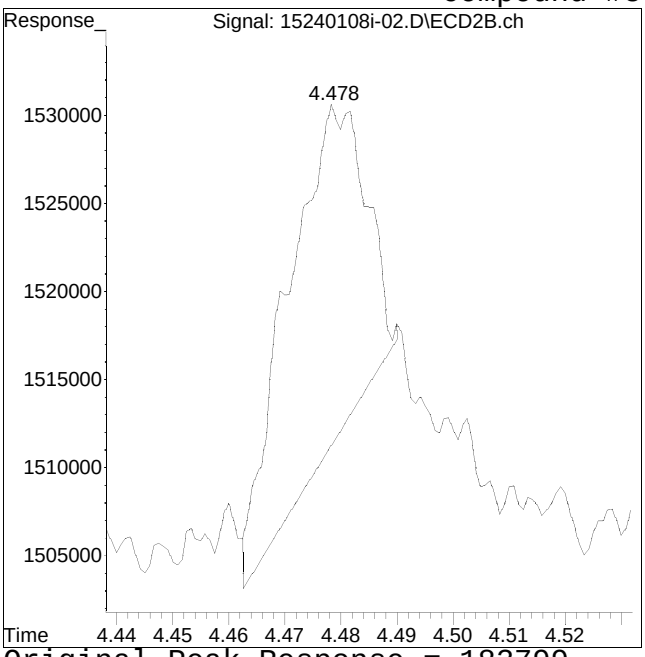
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



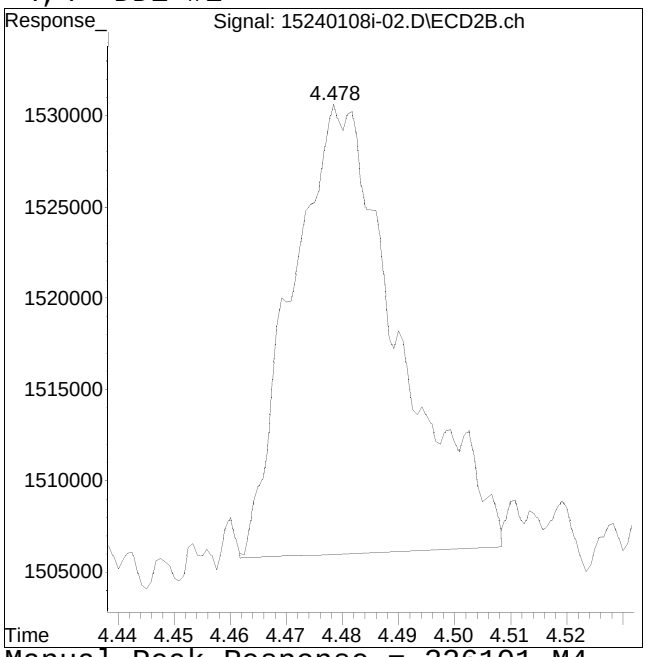
Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240108QMethod : P15_pest_2024_01_08_ugL_
Data File : 15240108i-02.D Operator : Pest15:akm
Date Inj'd : 1/8/2024 2:48 pm Instrument : Pest 15
Sample : pem15240108-01,42e,,pp 113Quant Date : 1/12/2024 12:08 pm

Compound #53: 4,4'-DDE #2



Original Peak Response = 183799



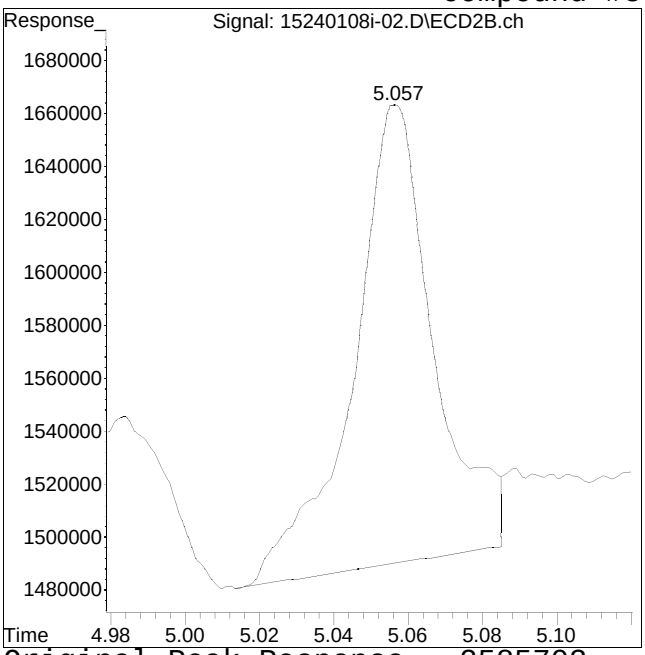
Manual Peak Response = 326101 M4

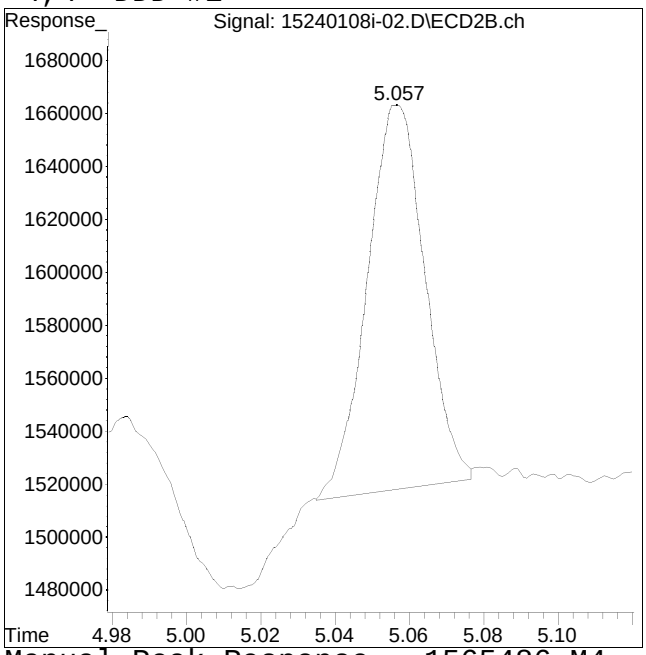
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240108QMethod : P15_pest_2024_01_08_ugL_
Data File : 15240108i-02.D Operator : Pest15:akm
Date Inj'd : 1/8/2024 2:48 pm Instrument : Pest 15
Sample : pem15240108-01,42e,,pp 113Quant Date : 1/12/2024 12:08 pm

Compound #57: 4,4'-DDD #2



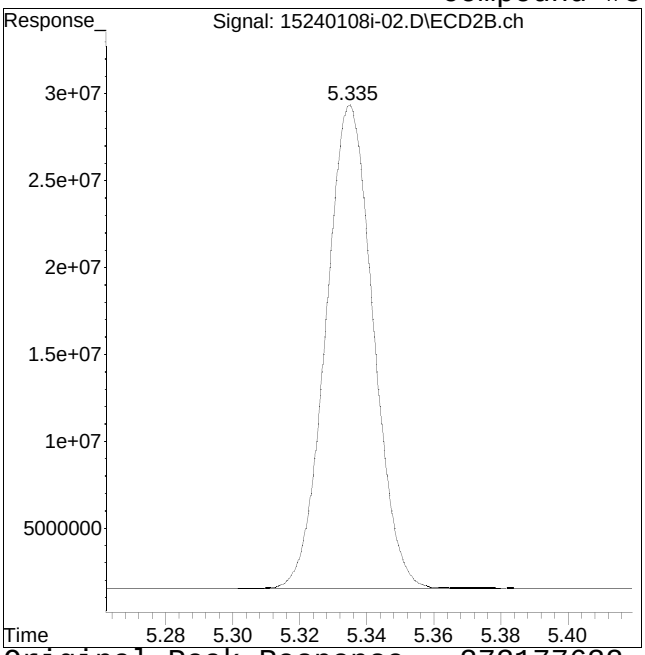


Original Peak Response = 2585703 Manual Peak Response = 1565486 M4
M4 = Poor automated baseline construction.

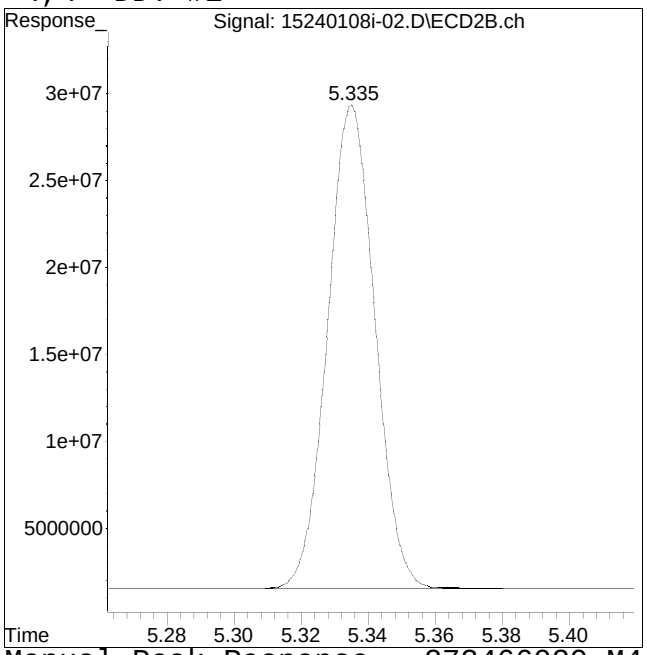
Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240108QMethod : P15_pest_2024_01_08_ugL_
Data File : 15240108i-02.D Operator : Pest15:akm
Date Inj'd : 1/8/2024 2:48 pm Instrument : Pest 15
Sample : pem15240108-01,42e,,pp 113Quant Date : 1/12/2024 12:08 pm

Compound #59: 4,4'-DDT #2



Original Peak Response = 273177632

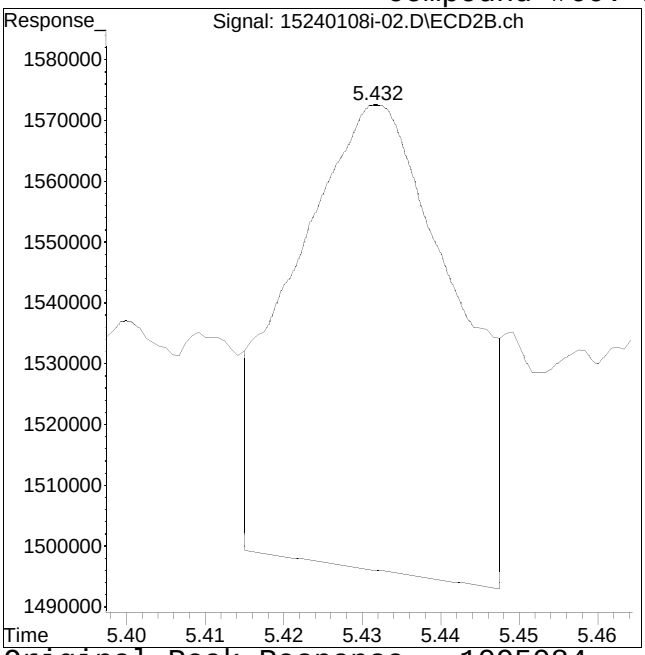


Manual Peak Response = 272466020 M4
M4 = Poor automated baseline construction.

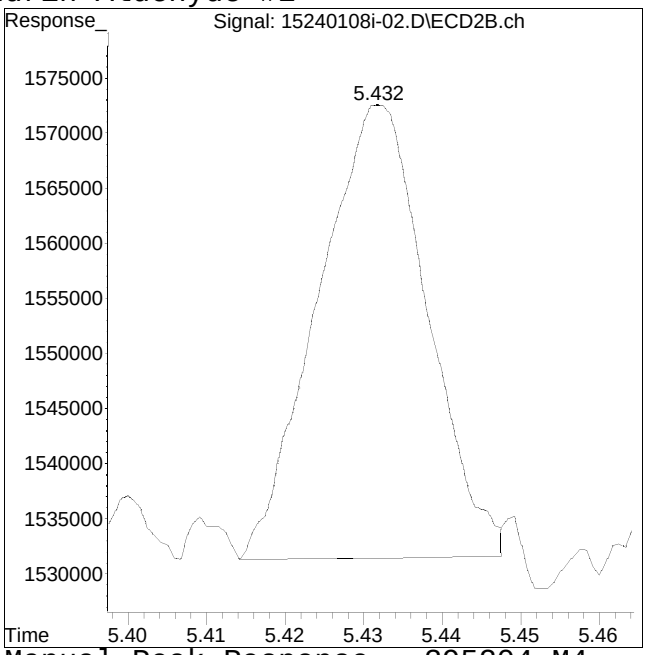
Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240108QMethod : P15_pest_2024_01_08_ugL_
Data File : 15240108i-02.D Operator : Pest15:akm
Date Inj'd : 1/8/2024 2:48 pm Instrument : Pest 15
Sample : pem15240108-01,42e,,pp 113Quant Date : 1/12/2024 12:08 pm

Compound #60: Endrin Aldehyde #2



Original Peak Response = 1095084



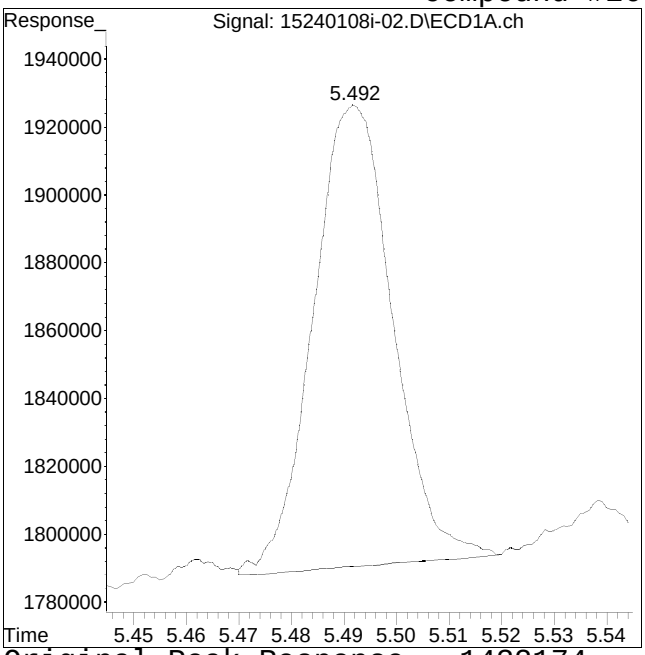
Manual Peak Response = 395204 M4

M4 = Poor automated baseline construction.

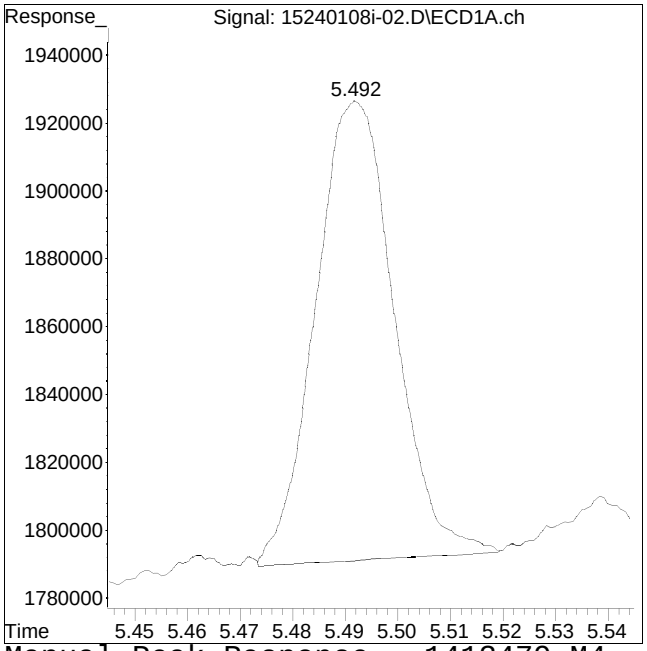
Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240108QMethod : P15_pest_2024_01_08_ugL_
Data File : 15240108i-02.D Operator : Pest15:akm
Date Inj'd : 1/8/2024 2:48 pm Instrument : Pest 15
Sample : pem15240108-01,42e,,pp 113Quant Date : 1/12/2024 12:08 pm

Compound #26: Endrin Ketone



Original Peak Response = 1432174



Manual Peak Response = 1413479 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest15\2024\240108ical\
Data File : 15240108i-03.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 8 Jan 2024 3:00 pm
Operator : Pest15:akm
Sample : il1pest,42e,,pp 11406 L0.0005
Misc : WG1874875, (Sig #1); ical (Sig #2)
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Jan 12 09:49:06 2024
Quant Method : I:\PEST\Pest15\2024\240108ical\P15_pest_2024_01_08_ugL_ICAL.m
Quant Title : pest
QLast Update : Fri Jan 12 09:47:55 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	1.251	1.332	104.6E6	68079669	25.000	25.000
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
	Target Compounds						
3)	Hexachlorobe	0.000	0.000	0	0	N.D. d	N.D. d
4)	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)	gamma-BHC (l	2.152	2.551	2949680	2065414	0.546	0.596M4
6)	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8)	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9)	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10)	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11)	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12)	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13)	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14)	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17)	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18)	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22)	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d
23)	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest15\2024\240108ical\
Data File : 15240108i-03.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 8 Jan 2024 3:00 pm
Operator : Pest15:akm
Sample : il1pest,42e,,pp 11406 L0.0005
Misc : WG1874875, (Sig #1); ical (Sig #2)
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Jan 12 09:49:06 2024
Quant Method : I:\PEST\Pest15\2024\240108ical\P15_pest_2024_01_08_ugL_ICAL.m
Quant Title : pest
QLast Update : Fri Jan 12 09:47:55 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
24)	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25)	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26)	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

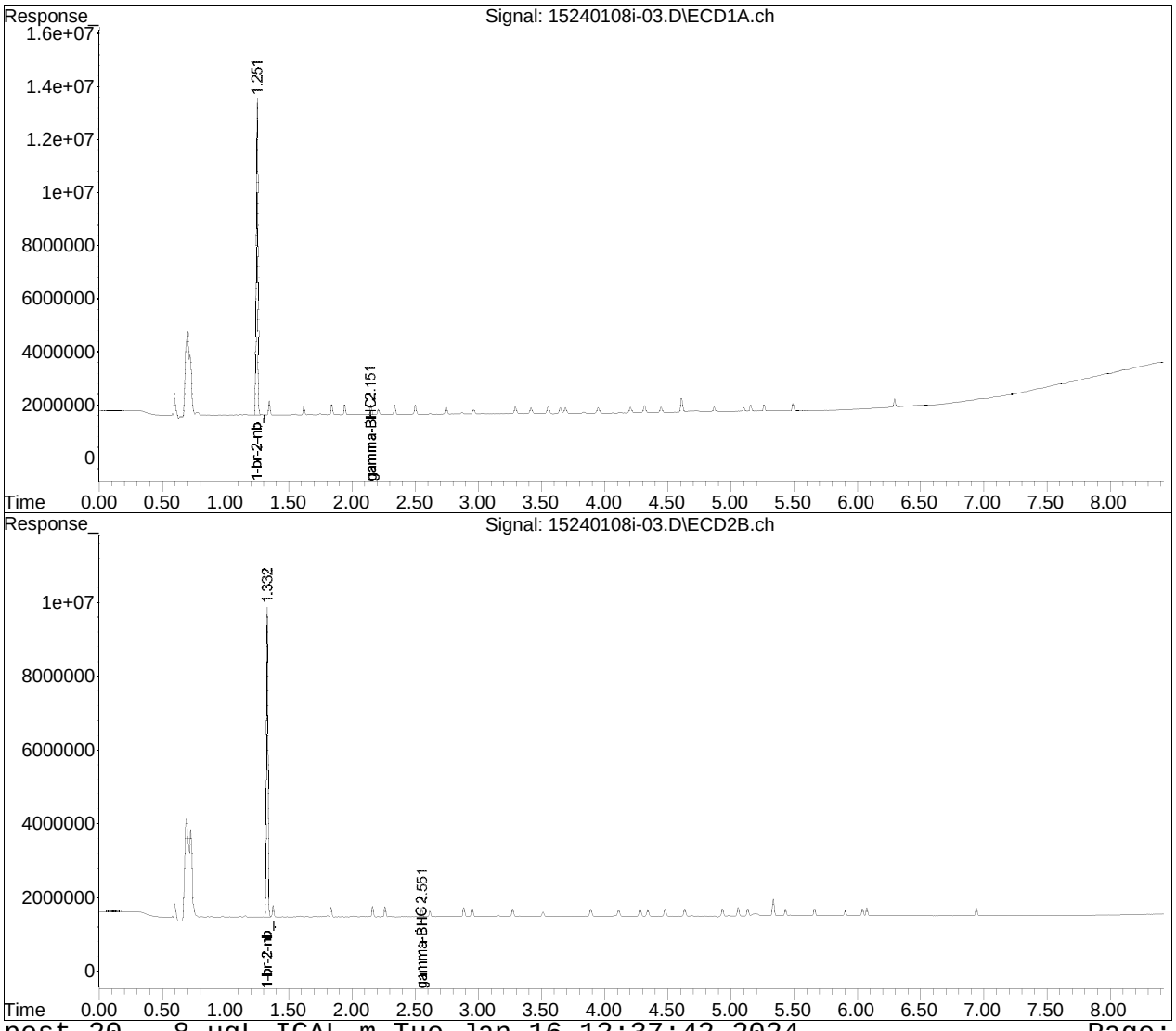
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest15\2024\240108ical\
Data File : 15240108i-03.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 8 Jan 2024 3:00 pm
Operator : Pest15:akm
Sample : il1pest,42e,,pp 11406 L0.0005
Misc : WG1874875, (Sig #1); ical (Sig #2)
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Jan 12 09:49:06 2024
Quant Method : I:\PEST\Pest15\2024\240108ical\P15_pest_2024_01_08_ugL_ICAL.m
Quant Title : pest
QLast Update : Fri Jan 12 09:47:55 2024
Response via : Initial Calibration
Integrator: ChemStation

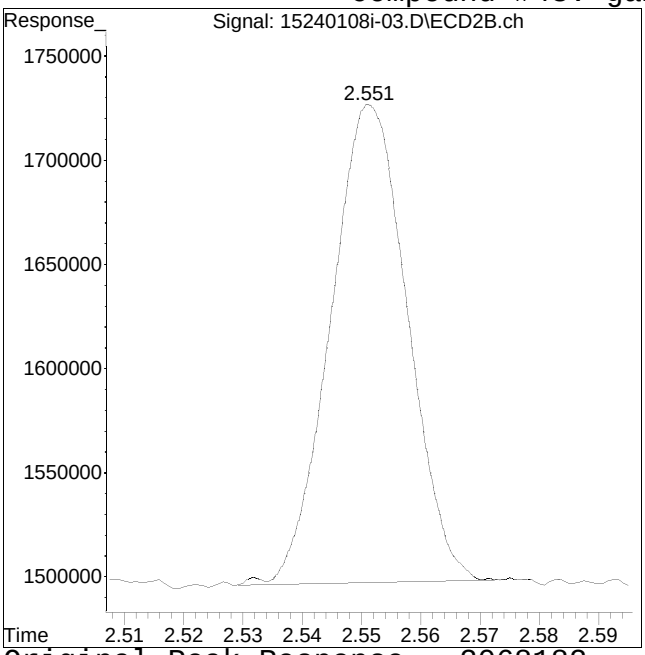
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



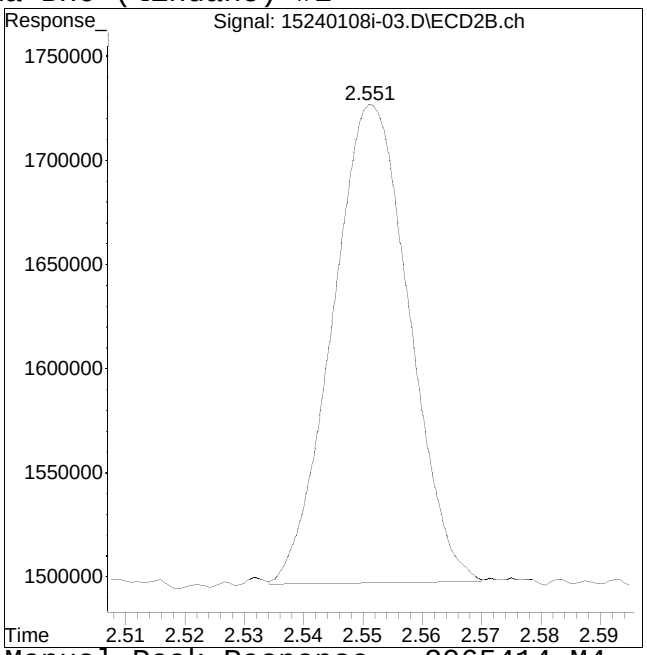
Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240108QMethod : P15_pest_2024_01_08_ugL_
Data File : 15240108i-03.D Operator : Pest15:akm
Date Inj'd : 1/8/2024 3:00 pm Instrument : Pest 15
Sample : il1pest,42e,,pp 11406 L0.0Quant Date : 1/12/2024 9:48 am

Compound #43: gamma-BHC (lindane) #2



Original Peak Response = 2068182



Manual Peak Response = 2065414 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest15\2024\240108ical\
Data File : 15240108i-04.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 8 Jan 2024 3:11 pm
Operator : Pest15:akm
Sample : il2pest,42e,,pp 11405 L0.001
Misc : WG1874875, (Sig #1); ical (Sig #2)
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Jan 12 09:47:19 2024
Quant Method : I:\PEST\Pest15\2024\240108ical\P15_pest_2024_01_08_ugL_ICAL.m
Quant Title : pest
QLast Update : Fri Jan 12 09:43:39 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	1.250	1.331	107.9E6	69599029	25.000	25.000
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.620	1.835	5127496	3681916	1.139	1.232
	Spiked Amount 50.000	Range 30 - 150		Recovery =		2.28%#	2.46%#
27) s	Decachlorobi	6.297	6.940	5507250	3534916	1.239	1.422
	Spiked Amount 50.000	Range 30 - 150		Recovery =		2.48%#	2.84%#
	Target Compounds						
3)	Hexachlorobe	1.841	2.164	5935303	4213206	1.208	1.312
4)	alpha-BHC	1.944	2.262	5942510	4099709	1.003	1.093
5)	gamma-BHC (l	2.151	2.551	5863968	4002923	1.059	1.149
6)	beta-BHC	2.210	2.617	3218597	2303920	1.196	1.329
7)	delta-BHC	2.338	2.885	5890939	4109815	1.066M4	1.173M4
8)	Heptachlor	2.502	2.952	6302167	4191182	1.152M4	1.256
9)	Aldrin	2.746	3.272	5396527	3772815	1.068	1.196M4
10)	Alachlor	2.871	3.155	981498	858640	1.156M4	1.193M4
11)	Chlorpyrifos	2.963	3.512	3541640	2358967	1.330	1.411
12)	Heptachlor E	3.293	3.889	5689979	3902992	1.145M4	1.269
13)	gamma-Chlord	3.417	4.110	5248738	3569785	1.160M4	1.278
14)	alpha-Chlord	3.552	4.281	6247380	3969766	1.214	1.276
15)	4,4'-DDE	3.650	4.477	5134366	3585852	1.054M4	1.179M4
16)	Endosulfan I	3.689	4.341	5412046	3623485	1.158M4	1.259
17)	Dieldrin	3.948	4.634	5338921	3498206	1.101M4	1.204
18)	Endrin	4.204	4.933	5447644	3799033	1.093	1.290M4
19)	4,4'-DDD	4.316	5.056	5683269	3695234	1.358	1.492M4
20)	Endosulfan I	4.446	5.132	4940922	3267016	1.126	1.259M4

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest15\2024\240108ical\
Data File : 15240108i-04.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 8 Jan 2024 3:11 pm
Operator : Pest15:akm
Sample : il2pest,42e,,pp 11405 L0.001
Misc : WG1874875, (Sig #1); ical (Sig #2)
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Jan 12 09:47:19 2024
Quant Method : I:\PEST\Pest15\2024\240108ical\P15_pest_2024_01_08_ugL_ICAL.m
Quant Title : pest
QLast Update : Fri Jan 12 09:43:39 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
21)	4,4'-DDT	4.610	5.334	8575674	5980716	1.721	2.052
22)	Endrin Aldeh	4.867	5.430	4289251	2738641	1.164	1.244M4
23)	Methoxychlor	5.102	5.903	3309237	2148536	1.270	1.444
24)	Mirex	5.155	6.040	5252846	3265454	1.269	1.420
25)	Endosulfan S	5.262	5.659	4810675	3173641	1.142	1.296M4
26)	Endrin Keton	5.490	6.074	5487816	3522327	1.141	1.267
29) l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

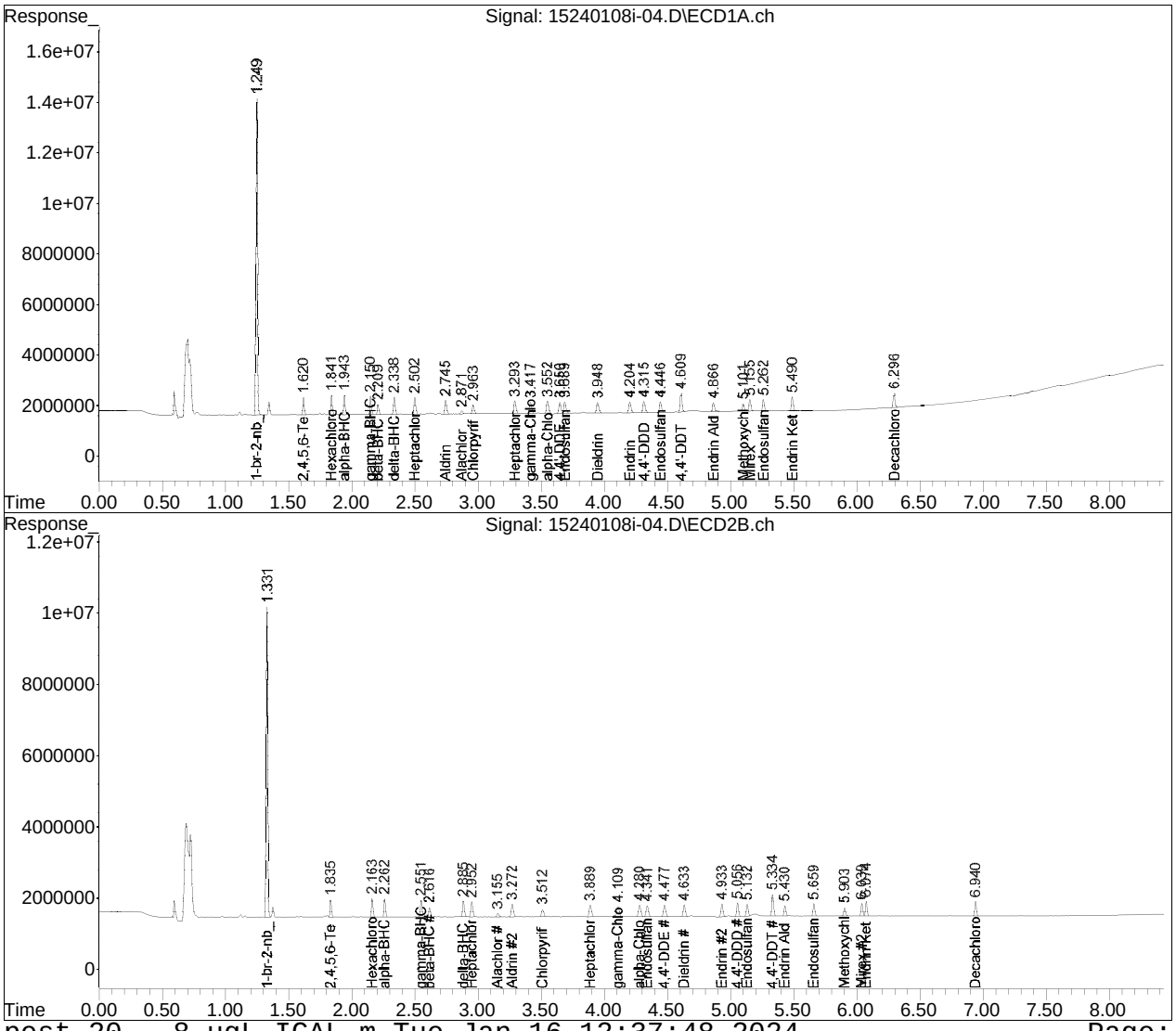
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest15\2024\240108ical\
Data File : 15240108i-04.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 8 Jan 2024 3:11 pm
Operator : Pest15:akm
Sample : il2pest,42e,,pp 11405 L0.001
Misc : WG1874875, (Sig #1); ical (Sig #2)
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Jan 12 09:47:19 2024
Quant Method : I:\PEST\Pest15\2024\240108ical\P15_pest_2024_01_08_ugL_ICAL.m
Quant Title : pest
QLast Update : Fri Jan 12 09:43:39 2024
Response via : Initial Calibration
Integrator: ChemStation

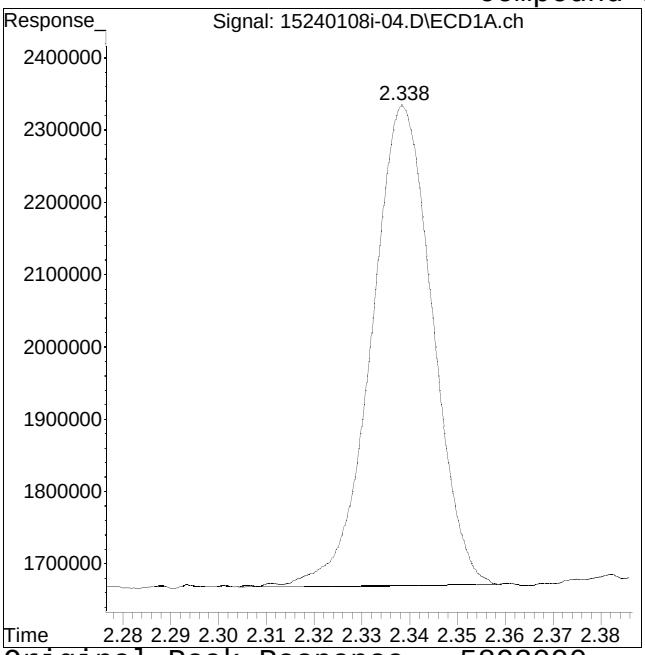
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



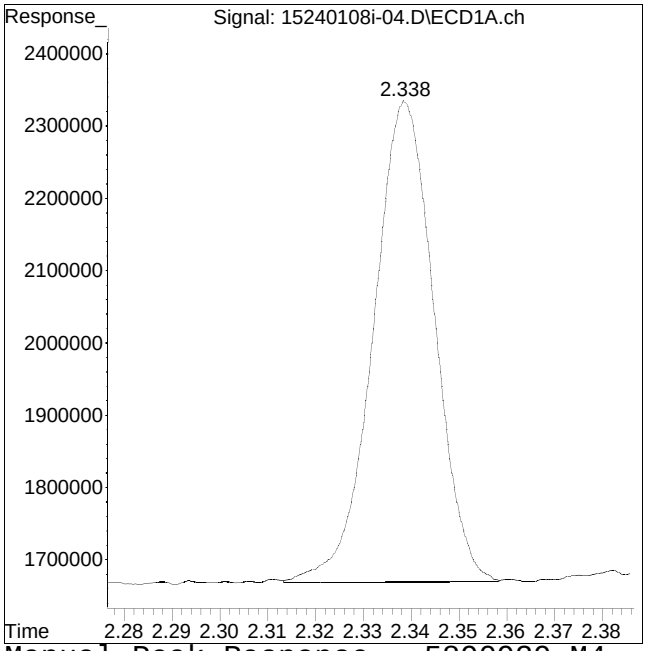
Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240108QMethod : P15_pest_2024_01_08_ugL_
Data File : 15240108i-04.D Operator : Pest15:akm
Date Inj'd : 1/8/2024 3:11 pm Instrument : Pest 15
Sample : il2pest,42e,,pp 11405 L0.0Quant Date : 1/12/2024 9:43 am

Compound #7: delta-BHC



Original Peak Response = 5893090



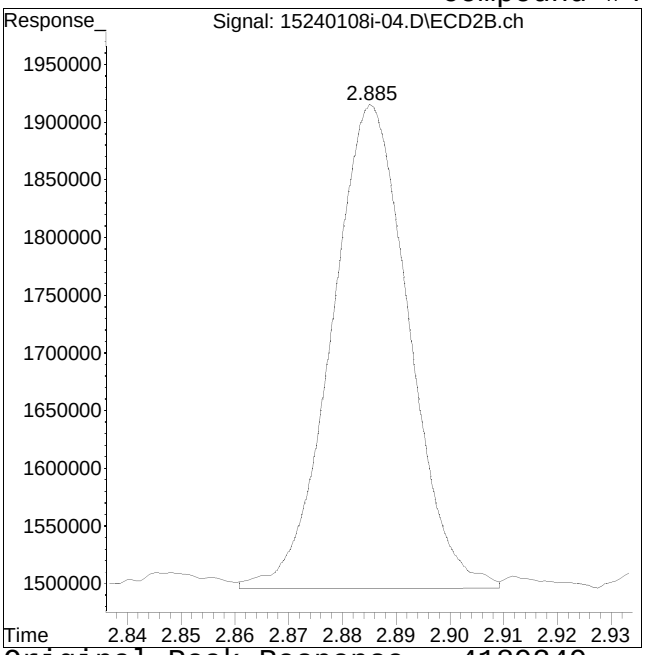
Manual Peak Response = 5890939 M4

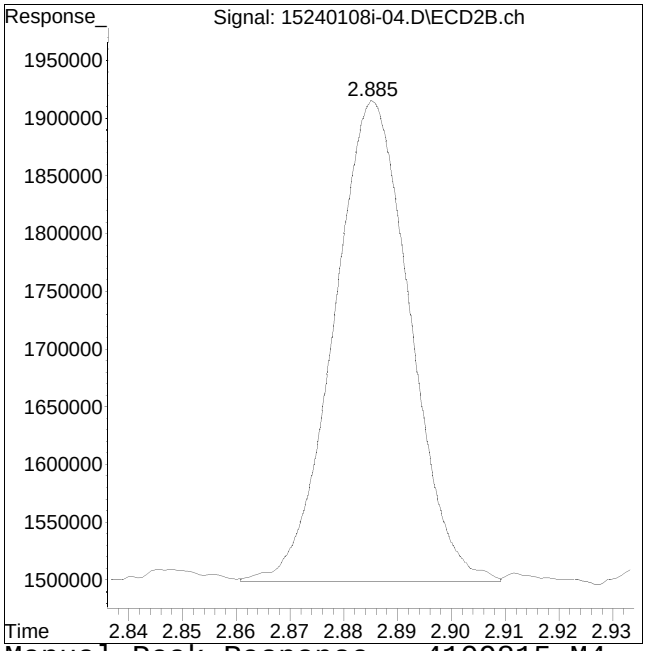
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240108QMethod : P15_pest_2024_01_08_ugL_
Data File : 15240108i-04.D Operator : Pest15:akm
Date Inj'd : 1/8/2024 3:11 pm Instrument : Pest 15
Sample : il2pest,42e,,pp 11405 L0.0Quant Date : 1/12/2024 9:43 am

Compound #45: delta-BHC #2



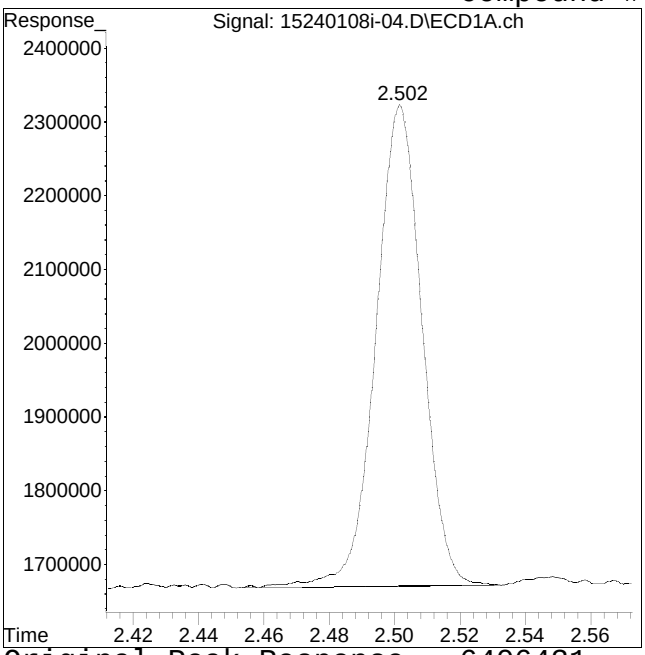


Original Peak Response = 4189249 Manual Peak Response = 4109815 M4
M4 = Poor automated baseline construction.

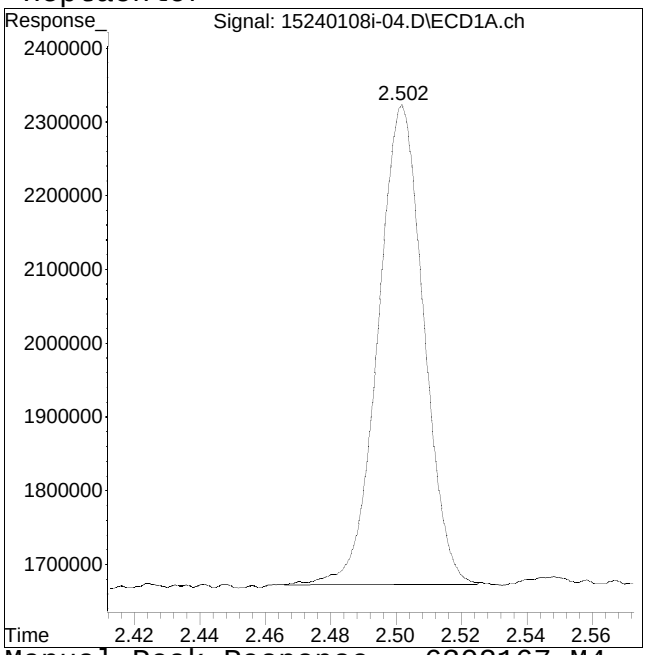
Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240108QMethod : P15_pest_2024_01_08_ugL_
Data File : 15240108i-04.D Operator : Pest15:akm
Date Inj'd : 1/8/2024 3:11 pm Instrument : Pest 15
Sample : il2pest,42e,,pp 11405 L0.0Quant Date : 1/12/2024 9:43 am

Compound #8: Heptachlor



Original Peak Response = 6406431



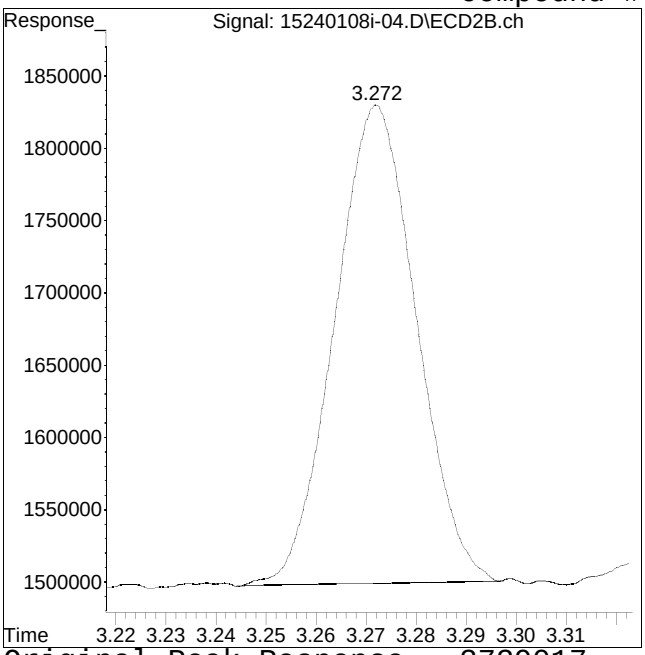
Manual Peak Response = 6302167 M4

M4 = Poor automated baseline construction.

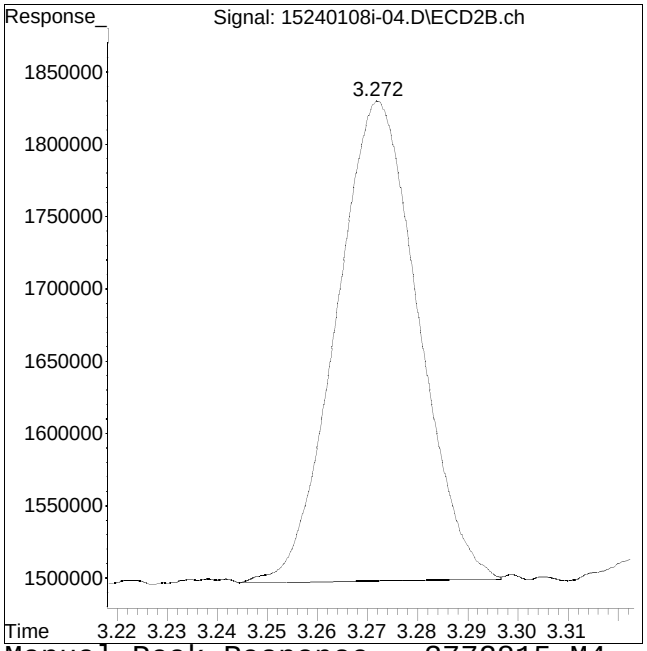
Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240108QMethod : P15_pest_2024_01_08_ugL_
Data File : 15240108i-04.D Operator : Pest15:akm
Date Inj'd : 1/8/2024 3:11 pm Instrument : Pest 15
Sample : il2pest,42e,,pp 11405 L0.0Quant Date : 1/12/2024 9:43 am

Compound #47: Aldrin #2



Original Peak Response = 3739017



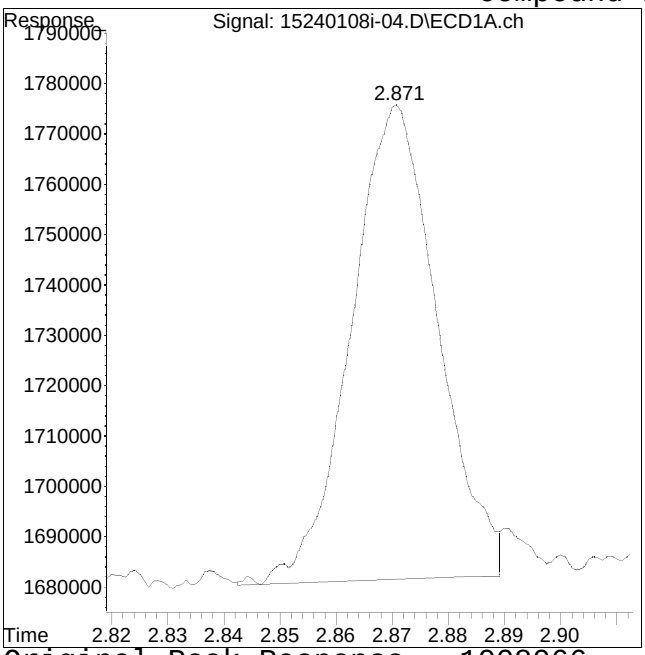
Manual Peak Response = 3772815 M4

M4 = Poor automated baseline construction.

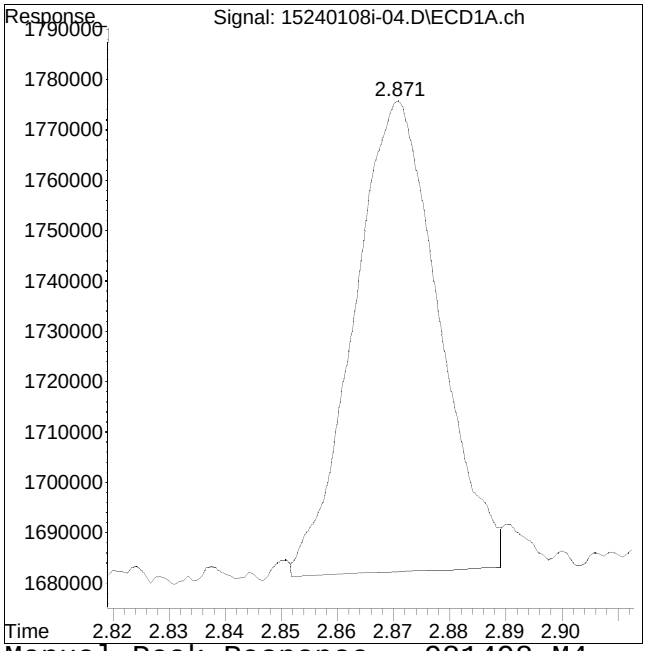
Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240108QMethod : P15_pest_2024_01_08_ugL_
Data File : 15240108i-04.D Operator : Pest15:akm
Date Inj'd : 1/8/2024 3:11 pm Instrument : Pest 15
Sample : il2pest,42e,,pp 11405 L0.0Quant Date : 1/12/2024 9:43 am

Compound #10: Alachlor



Original Peak Response = 1008066



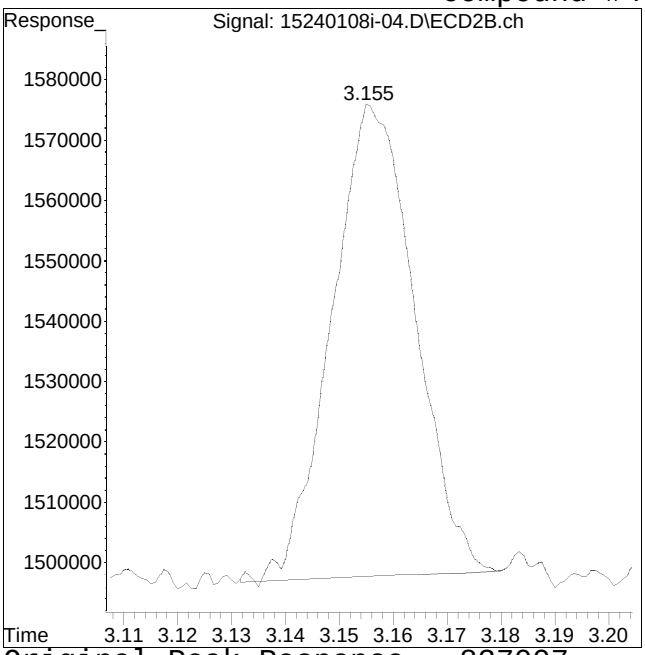
Manual Peak Response = 981498 M4

M4 = Poor automated baseline construction.

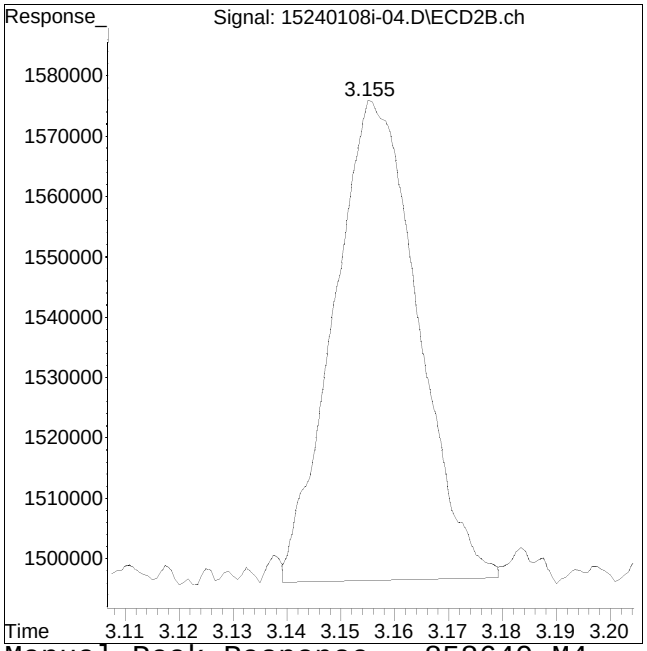
Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240108QMethod : P15_pest_2024_01_08_ugL_
Data File : 15240108i-04.D Operator : Pest15:akm
Date Inj'd : 1/8/2024 3:11 pm Instrument : Pest 15
Sample : il2pest,42e,,pp 11405 L0.0Quant Date : 1/12/2024 9:43 am

Compound #48: Alachlor #2



Original Peak Response = 837007



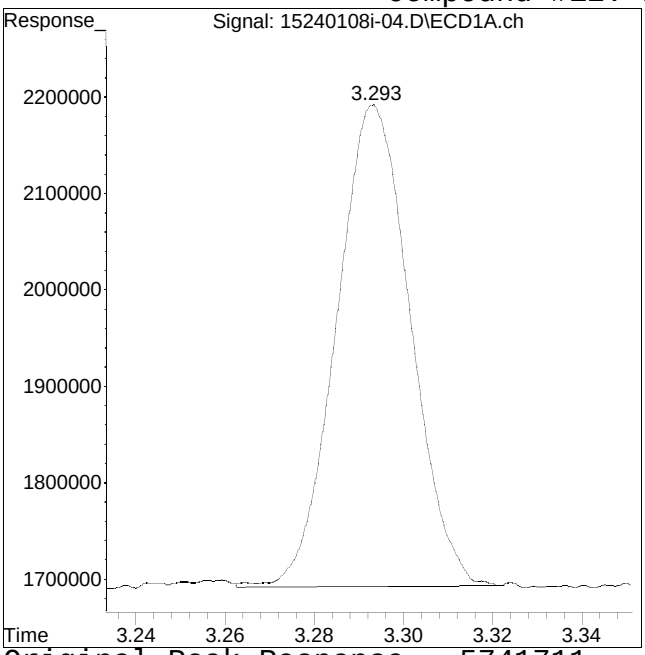
Manual Peak Response = 858640 M4

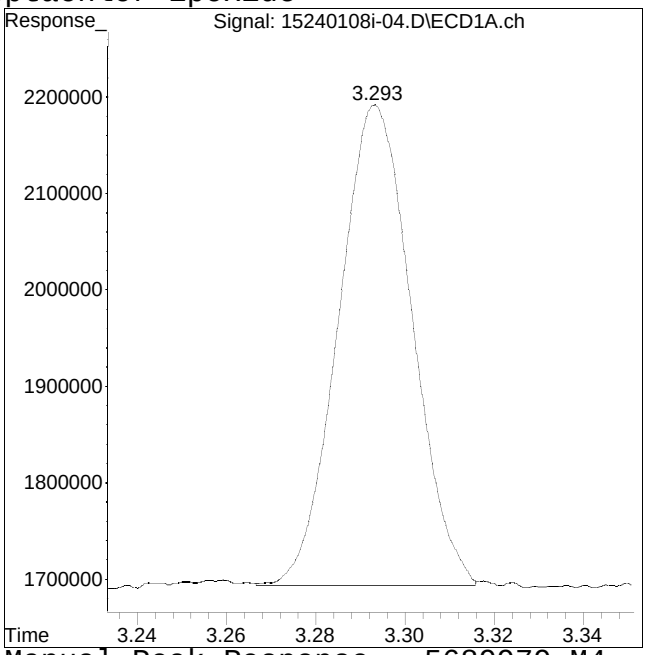
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240108QMethod : P15_pest_2024_01_08_ugL_
Data File : 15240108i-04.D Operator : Pest15:akm
Date Inj'd : 1/8/2024 3:11 pm Instrument : Pest 15
Sample : il2pest,42e,,pp 11405 L0.0Quant Date : 1/12/2024 9:43 am

Compound #12: Heptachlor Epoxide



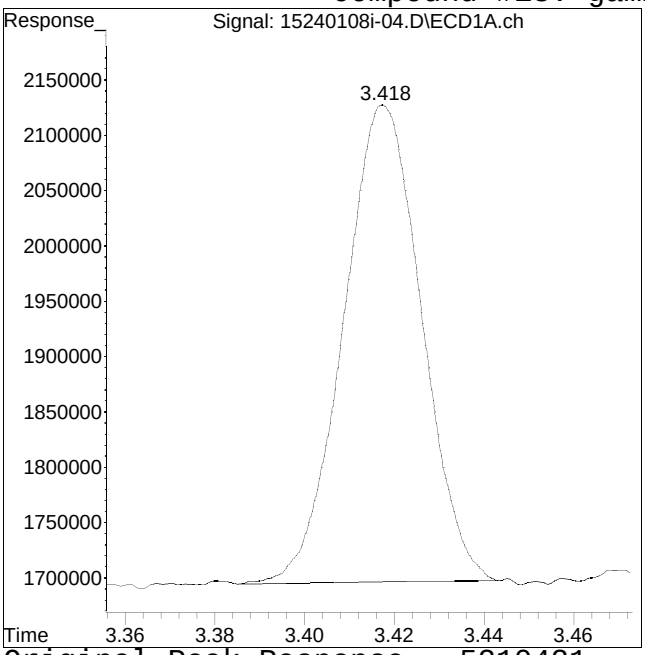


Original Peak Response = 5741711 Manual Peak Response = 5689979 M4
M4 = Poor automated baseline construction.

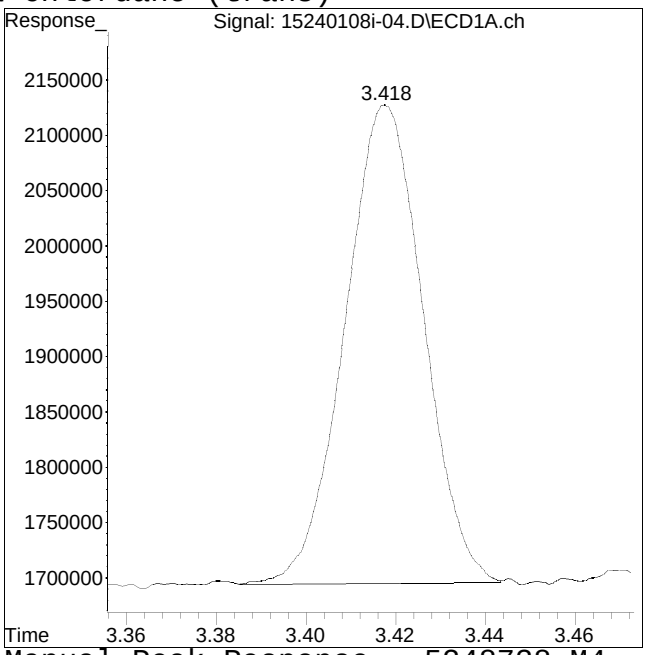
Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240108QMethod : P15_pest_2024_01_08_ugL_
Data File : 15240108i-04.D Operator : Pest15:akm
Date Inj'd : 1/8/2024 3:11 pm Instrument : Pest 15
Sample : il2pest,42e,,pp 11405 L0.0Quant Date : 1/12/2024 9:43 am

Compound #13: gamma-Chlordane (trans)



Original Peak Response = 5210421



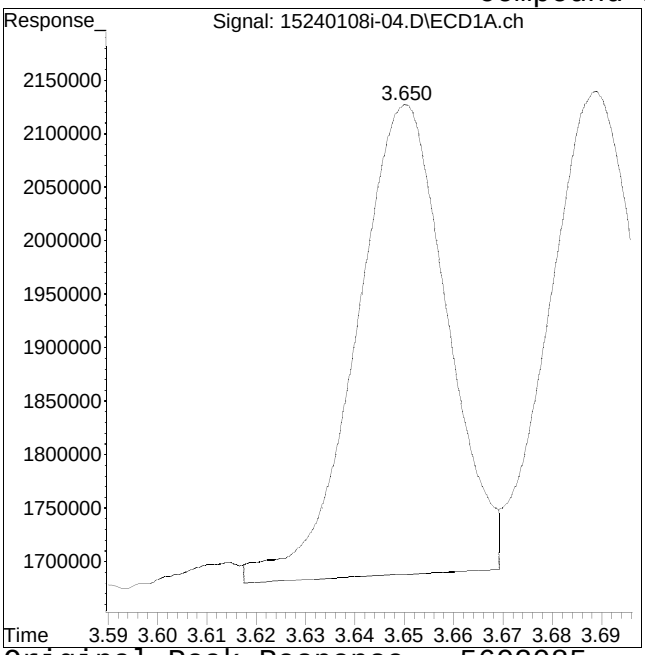
Manual Peak Response = 5248738 M4

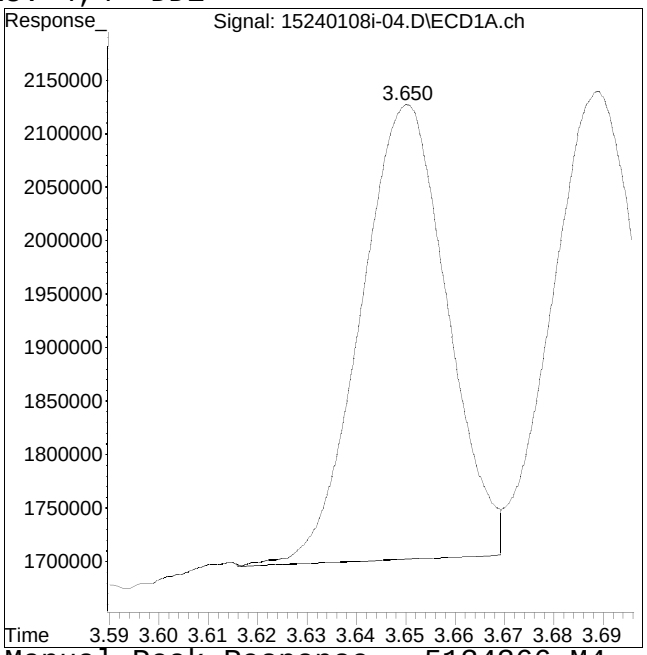
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240108QMethod : P15_pest_2024_01_08_ugL_
Data File : 15240108i-04.D Operator : Pest15:akm
Date Inj'd : 1/8/2024 3:11 pm Instrument : Pest 15
Sample : il2pest,42e,,pp 11405 L0.0Quant Date : 1/12/2024 9:43 am

Compound #15: 4,4'-DDE





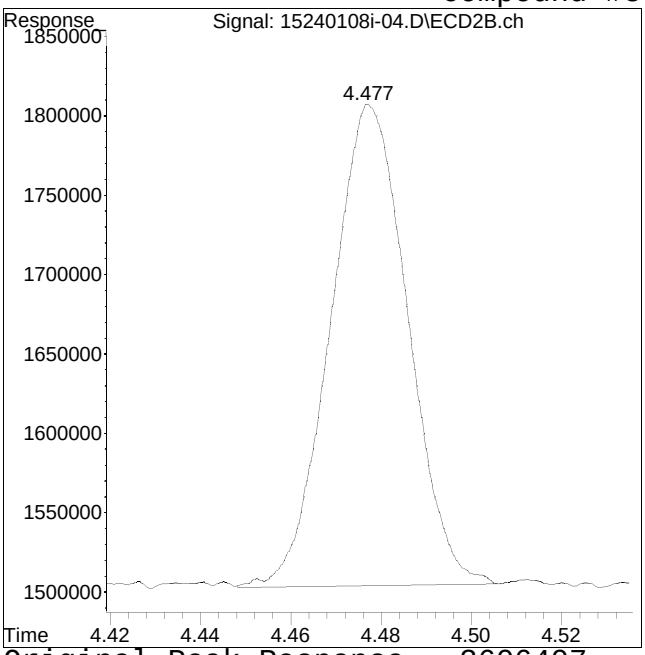
Original Peak Response = 5602085 Manual Peak Response = 5134366 M4
M4 = Poor automated baseline construction.

Manual Integration Report

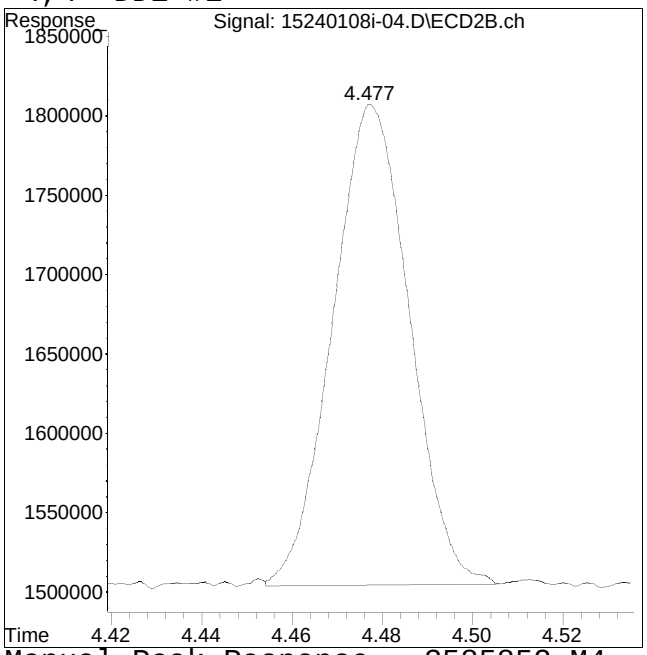
Data Path : I:\PEST\Pest15\2024\240108Q
Data File : 15240108i-04.D
Date Inj'd : 1/8/2024 3:11 pm
Sample : il2pest,42e,,pp 11405 L0.0

Method : P15_pest_2024_01_08_ugL_
Operator : Pest15:akm
Instrument : Pest 15
Quant Date : 1/12/2024 9:43 am

Compound #53: 4,4'-DDE #2



Original Peak Response = 3606407



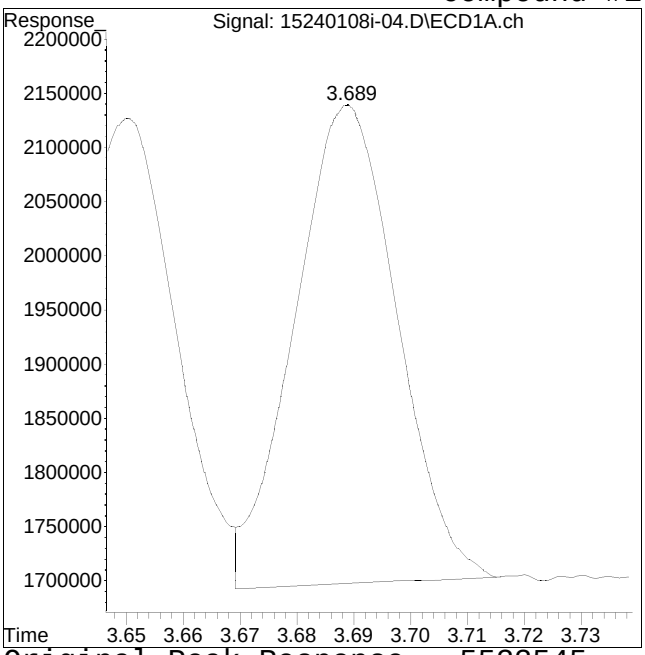
Manual Peak Response = 3585852 M4

M4 = Poor automated baseline construction.

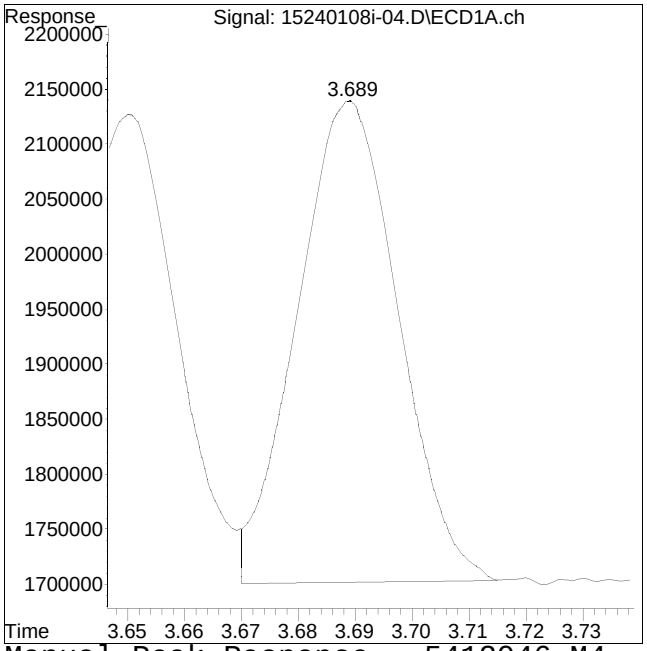
Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240108QMethod : P15_pest_2024_01_08_ugL_
Data File : 15240108i-04.D Operator : Pest15:akm
Date Inj'd : 1/8/2024 3:11 pm Instrument : Pest 15
Sample : il2pest,42e,,pp 11405 L0.0Quant Date : 1/12/2024 9:43 am

Compound #16: Endosulfan I



Original Peak Response = 5533545



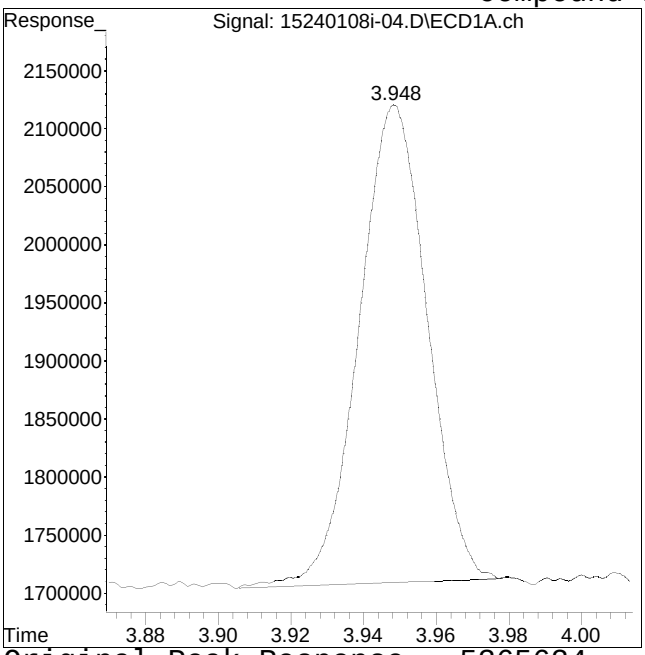
Manual Peak Response = 5412046 M4

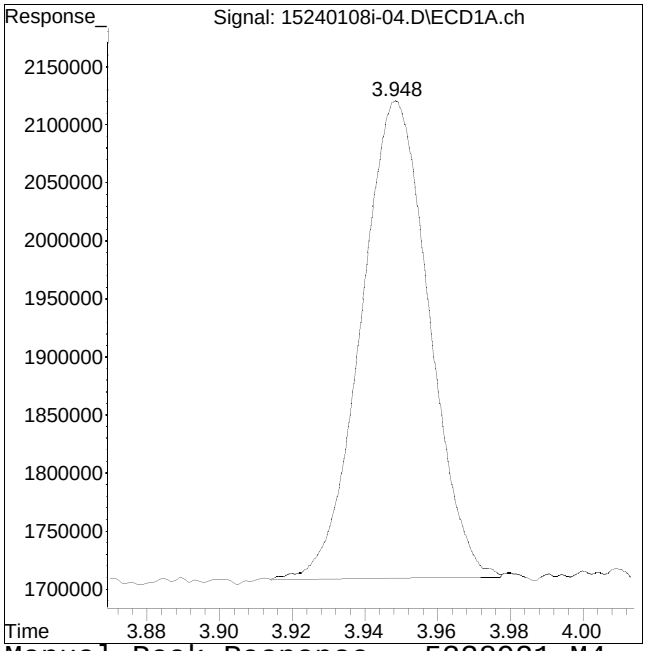
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240108QMethod : P15_pest_2024_01_08_ugL_
Data File : 15240108i-04.D Operator : Pest15:akm
Date Inj'd : 1/8/2024 3:11 pm Instrument : Pest 15
Sample : il2pest,42e,,pp 11405 L0.0Quant Date : 1/12/2024 9:43 am

Compound #17: Dieldrin



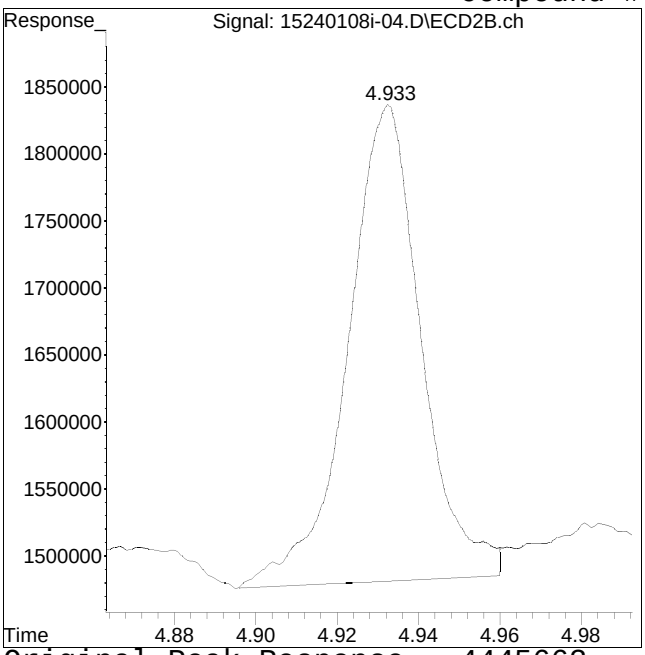


Original Peak Response = 5365624 Manual Peak Response = 5338921 M4
M4 = Poor automated baseline construction.

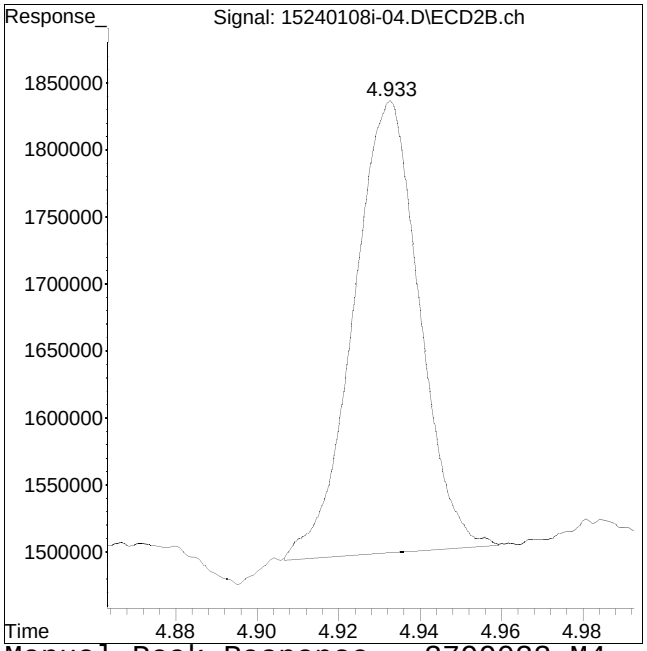
Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240108Q
Data File : 15240108i-04.D
Date Inj'd : 1/8/2024 3:11 pm
Sample : il2pest,42e,,pp 11405 L0.0
Method : P15_pest_2024_01_08_ugL_
Operator : Pest15:akm
Instrument : Pest 15
Quant Date : 1/12/2024 9:43 am

Compound #56: Endrin #2



Original Peak Response = 4445663



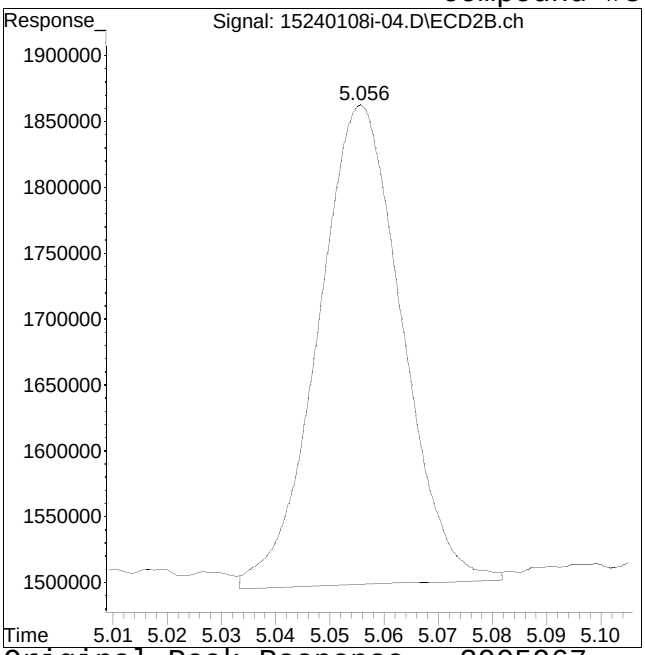
Manual Peak Response = 3799033 M4

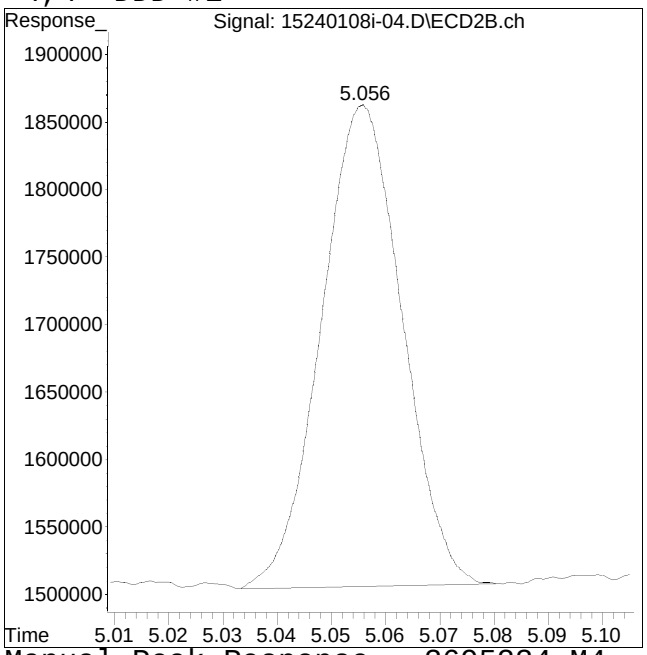
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240108QMethod : P15_pest_2024_01_08_ugL_
Data File : 15240108i-04.D Operator : Pest15:akm
Date Inj'd : 1/8/2024 3:11 pm Instrument : Pest 15
Sample : il2pest,42e,,pp 11405 L0.0Quant Date : 1/12/2024 9:43 am

Compound #57: 4,4'-DDD #2



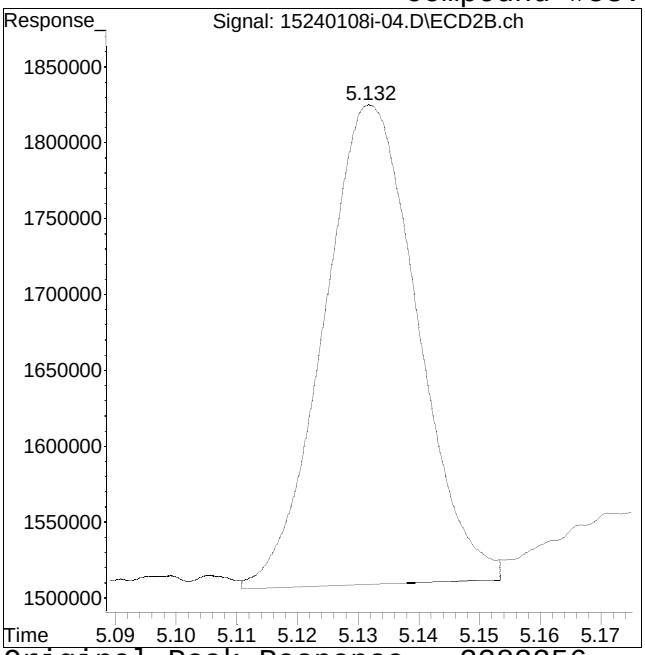


Original Peak Response = 3905967 Manual Peak Response = 3695234 M4
M4 = Poor automated baseline construction.

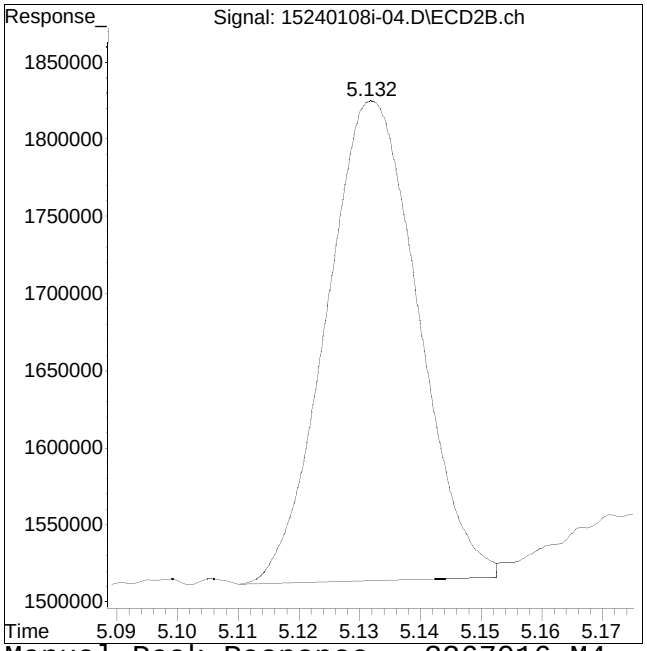
Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240108QMethod : P15_pest_2024_01_08_ugL_
Data File : 15240108i-04.D Operator : Pest15:akm
Date Inj'd : 1/8/2024 3:11 pm Instrument : Pest 15
Sample : il2pest,42e,,pp 11405 L0.0Quant Date : 1/12/2024 9:43 am

Compound #58: Endosulfan II #2



Original Peak Response = 3383256



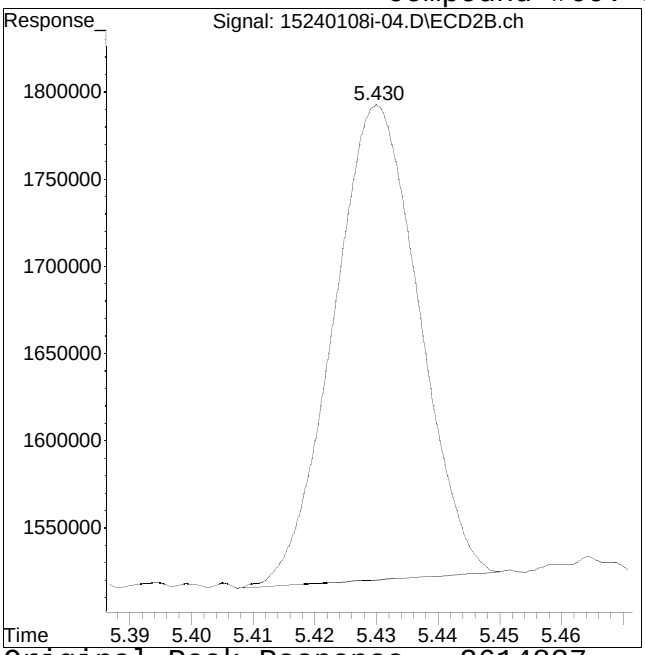
Manual Peak Response = 3267016 M4

M4 = Poor automated baseline construction.

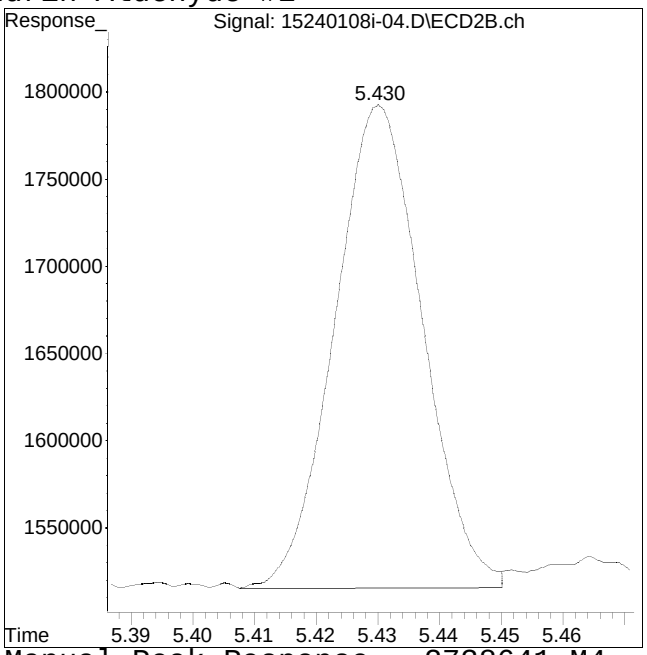
Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240108QMethod : P15_pest_2024_01_08_ugL_
Data File : 15240108i-04.D Operator : Pest15:akm
Date Inj'd : 1/8/2024 3:11 pm Instrument : Pest 15
Sample : il2pest,42e,,pp 11405 L0.0Quant Date : 1/12/2024 9:43 am

Compound #60: Endrin Aldehyde #2



Original Peak Response = 2614837



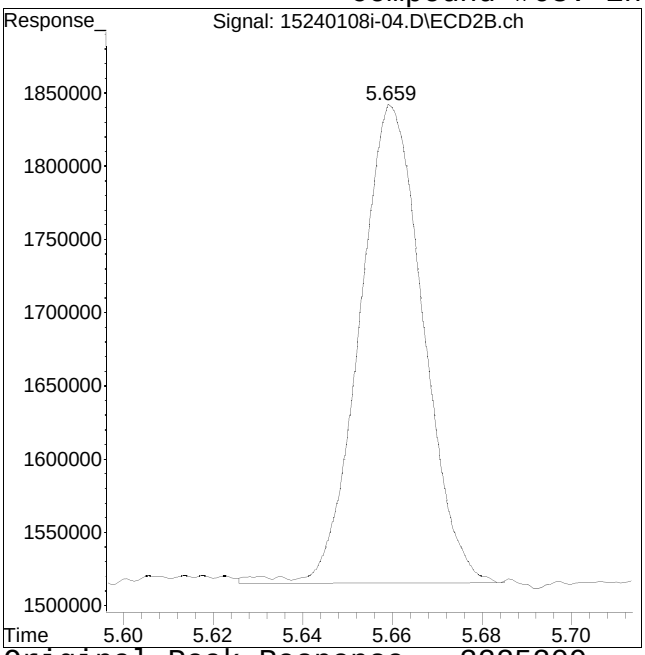
Manual Peak Response = 2738641 M4

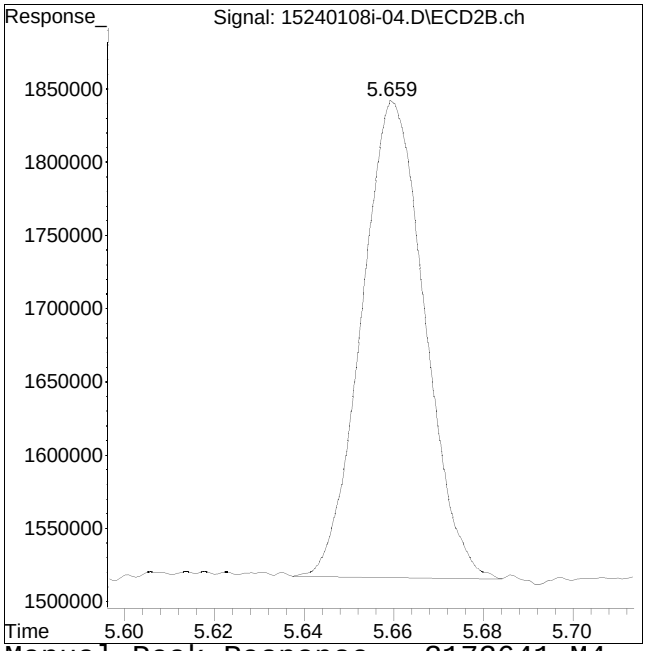
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240108QMethod : P15_pest_2024_01_08_ugL_
Data File : 15240108i-04.D Operator : Pest15:akm
Date Inj'd : 1/8/2024 3:11 pm Instrument : Pest 15
Sample : il2pest,42e,,pp 11405 L0.0Quant Date : 1/12/2024 9:43 am

Compound #63: Endosulfan Sulfate #2





Original Peak Response = 3225209 Manual Peak Response = 3173641 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest15\2024\240108ical\
Data File : 15240108i-05.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 8 Jan 2024 3:23 pm
Operator : Pest15:akm
Sample : il3pest,42e,,pp 11404 L0.002
Misc : WG1874875, (Sig #1); ical (Sig #2)
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Jan 12 09:43:03 2024
Quant Method : I:\PEST\Pest15\2024\240108ical\P15_pest_2024_01_08_ugL_ICAL.m
Quant Title : pest
QLast Update : Fri Jan 12 09:38:53 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	1.250	1.331	106.4E6	68664436	25.000	25.000M4
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.620	1.835	9725899	6705472	2.043	2.126
	Spiked Amount 50.000	Range 30 - 150		Recovery =		4.09%#	4.25%#
27) s	Decachlorobi	6.296	6.940	10145067	6221888	2.147	2.359
	Spiked Amount 50.000	Range 30 - 150		Recovery =		4.29%#	4.72%#
	Target Compounds						
3)	Hexachlorobe	1.841	2.164	11065171	7604167	2.128M4	2.243
4)	alpha-BHC	1.943	2.262	11396091	7656430	1.826M4	1.946M4
5)	gamma-BHC (l	2.151	2.552	11079419	7425057	1.899	2.029
6)	beta-BHC	2.209	2.617	6076175	4156242	2.137M4	2.264
7)	delta-BHC	2.339	2.885	10795800	7344072	1.855	1.995M4
8)	Heptachlor	2.501	2.952	11653475	7549084	2.016M3	2.146
9)	Aldrin	2.745	3.272	10290907	6864178	1.930	2.066
10)	Alachlor	2.871	3.157	1989022	1691619	2.213	2.221M4
11)	Chlorpyrifos	2.962	3.512	6549698	4354533	2.311M4	2.443
12)	Heptachlor E	3.293	3.890	10768147	7059471	2.049	2.173
13)	gamma-Chlord	3.417	4.110	9691299	6433269	2.025	2.182M4
14)	alpha-Chlord	3.552	4.280	10961208	7177998	2.010M4	2.188
15)	4,4'-DDE	3.649	4.478	9668228	6600469	1.875M4	2.061
16)	Endosulfan I	3.689	4.341	9892561	6570067	1.999	2.161
17)	Dieldrin	3.949	4.634	10032321	6460836	1.962	2.110
18)	Endrin	4.204	4.932	10282517	6615726	1.951	2.130
19)	4,4'-DDD	4.315	5.056	9256476	5887866	2.109	2.267
20)	Endosulfan I	4.446	5.132	9399385	5835305	2.024	2.122
21)	4,4'-DDT	4.609	5.334	12891699	8187479	2.481	2.709M4
22)	Endrin Aldeh	4.866	5.430	7840477	5035925	2.010M4	2.165M4

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest15\2024\240108ical\
Data File : 15240108i-05.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 8 Jan 2024 3:23 pm
Operator : Pest15:akm
Sample : il3pest,42e,,pp 11404 L0.002
Misc : WG1874875, (Sig #1); ical (Sig #2)
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Jan 12 09:43:03 2024
Quant Method : I:\PEST\Pest15\2024\240108ical\P15_pest_2024_01_08_ugL_ICAL.m
Quant Title : pest
QLast Update : Fri Jan 12 09:38:53 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
23)	Methoxychlor	5.101	5.903	5951352	3698904	2.156M4	2.340M4
24)	Mirex	5.155	6.040	9588952	5772919	2.182	2.362
25)	Endosulfan S	5.261	5.660	9105180	5770005	2.043M4	2.230
26)	Endrin Keton	5.490	6.075	10285356	6378560	2.020	2.170
29) l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

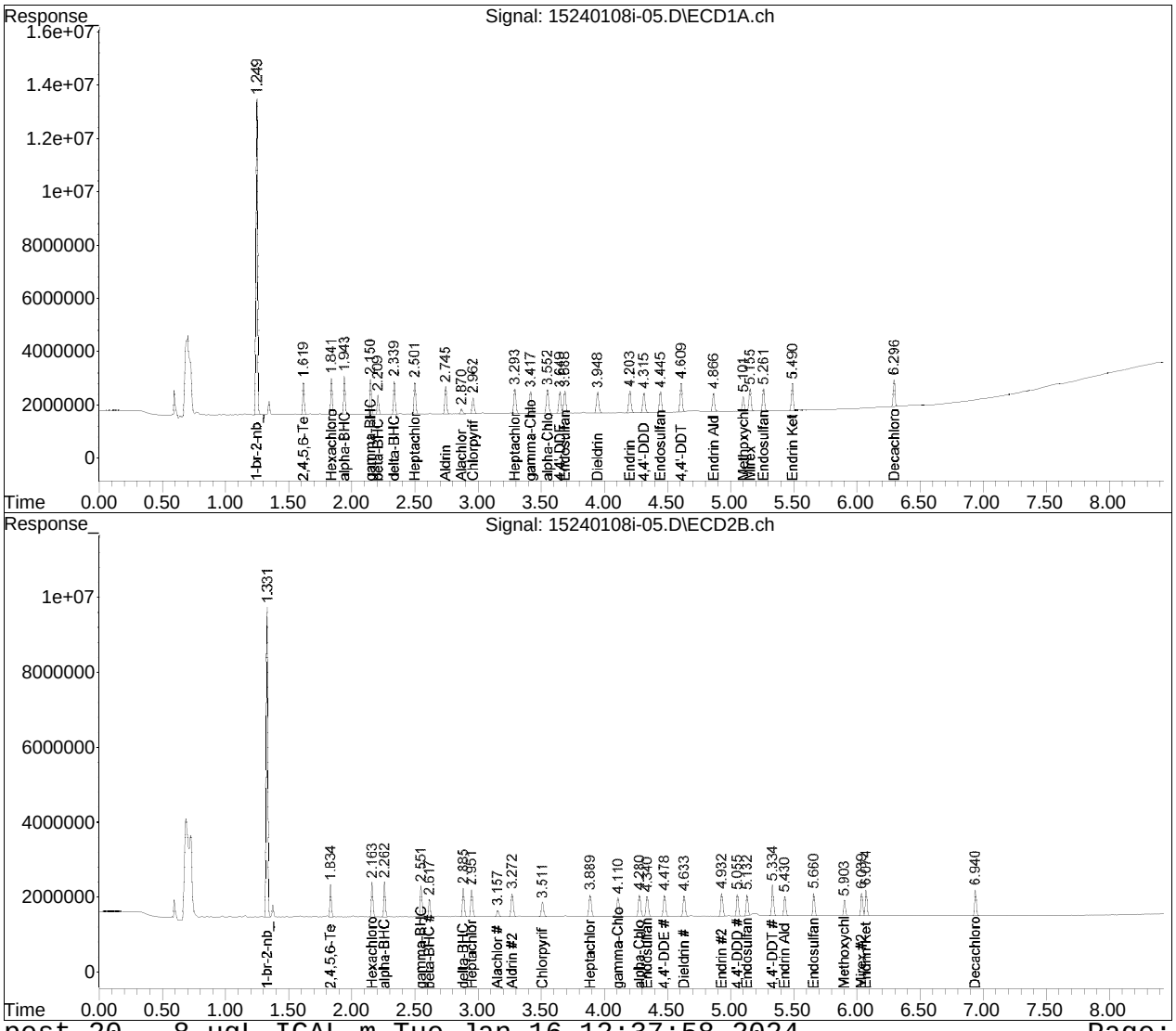
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest15\2024\240108ical\
Data File : 15240108i-05.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 8 Jan 2024 3:23 pm
Operator : Pest15:akm
Sample : il3pest,42e,,pp 11404 L0.002
Misc : WG1874875, (Sig #1); ical (Sig #2)
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Jan 12 09:43:03 2024
Quant Method : I:\PEST\Pest15\2024\240108ical\P15_pest_2024_01_08_ugL_ICAL.m
Quant Title : pest
QLast Update : Fri Jan 12 09:38:53 2024
Response via : Initial Calibration
Integrator: ChemStation

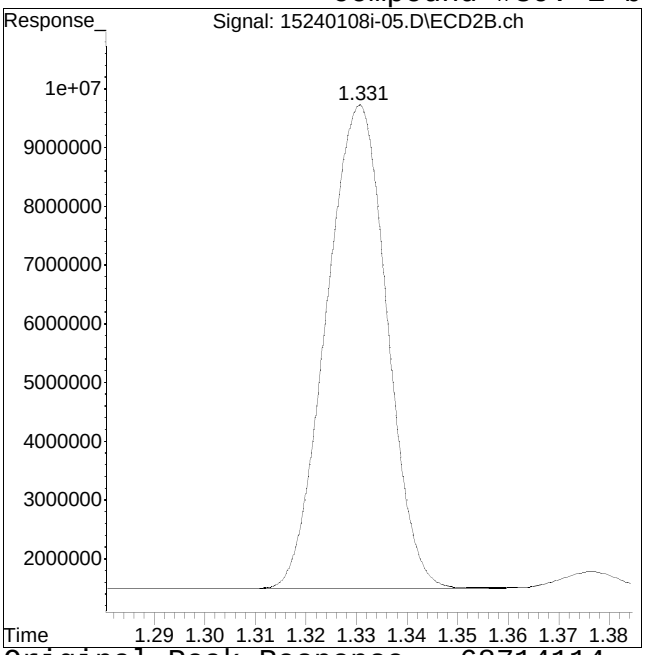
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

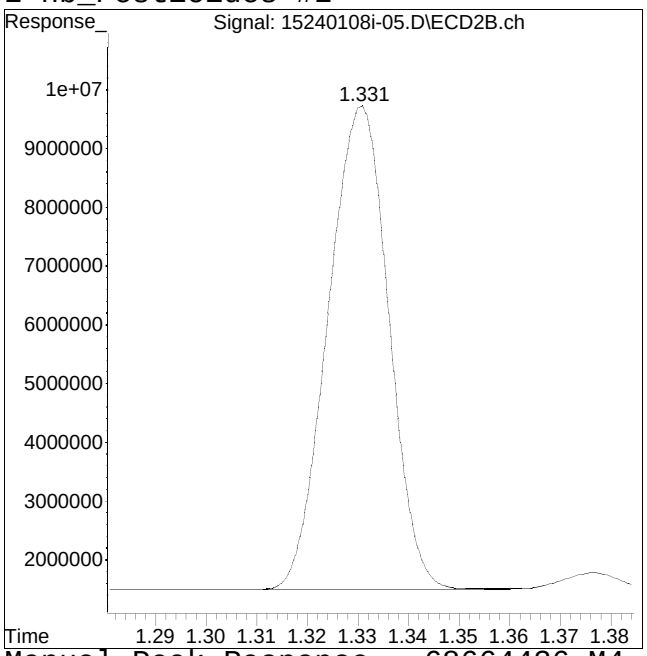


Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240108QMethod : P15_pest_2024_01_08_ugL_
Data File : 15240108i-05.D Operator : Pest15:akm
Date Inj'd : 1/8/2024 3:23 pm Instrument : Pest 15
Sample : il3pest,42e,,pp 11404 L0.0Quant Date : 1/12/2024 9:39 am

Compound #39: 1-br-2-nb_Pesticides #2



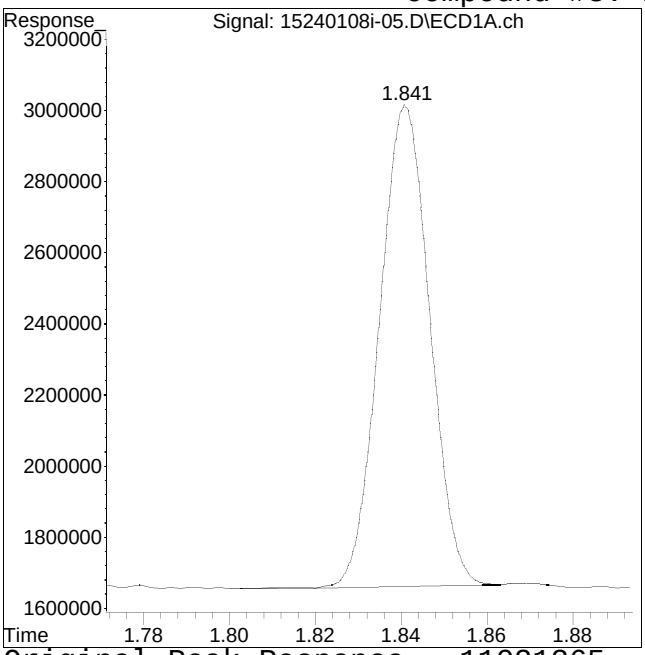


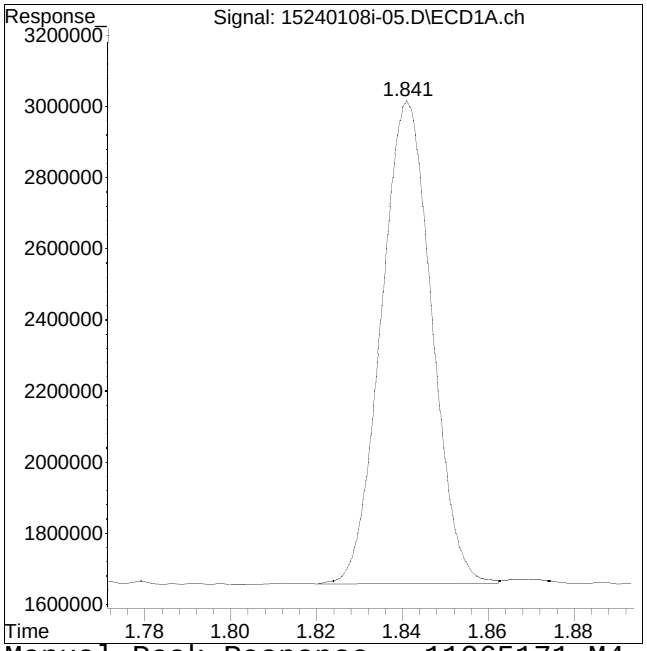
Original Peak Response = 68714114 Manual Peak Response = 68664436 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240108QMethod : P15_pest_2024_01_08_ugL_
Data File : 15240108i-05.D Operator : Pest15:akm
Date Inj'd : 1/8/2024 3:23 pm Instrument : Pest 15
Sample : il3pest,42e,,pp 11404 L0.0Quant Date : 1/12/2024 9:39 am

Compound #3: Hexachlorobenzene



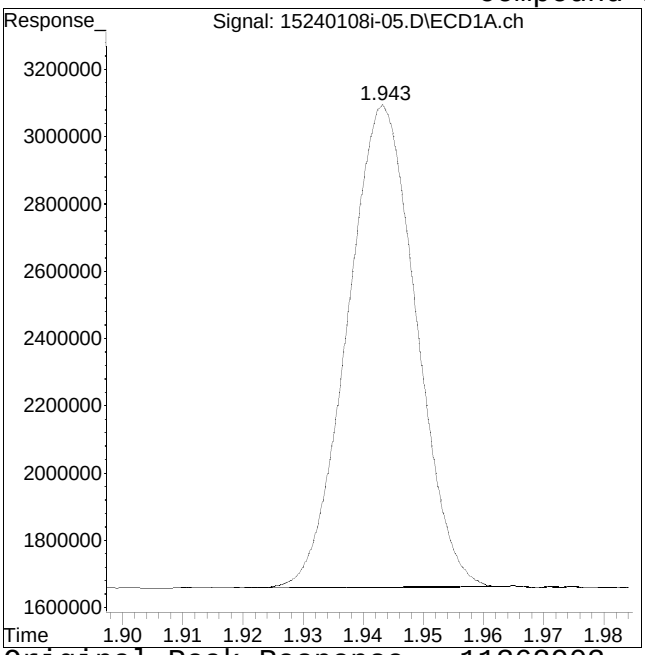


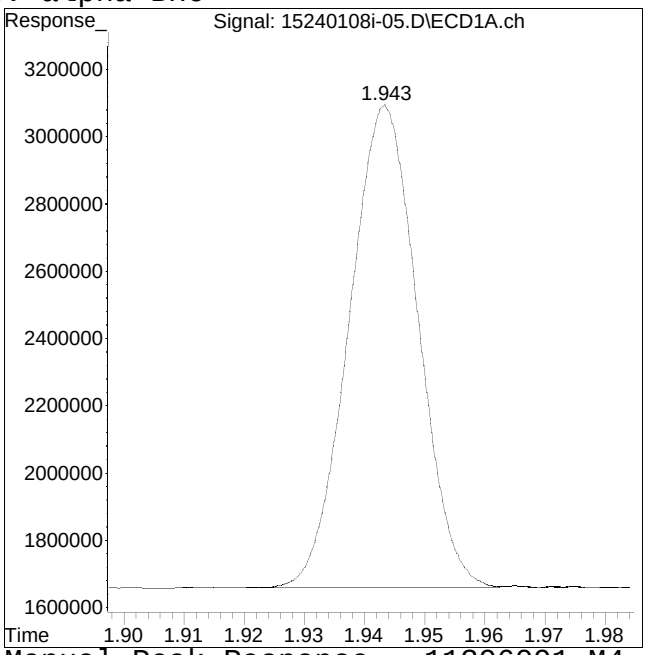
Original Peak Response = 11021265 Manual Peak Response = 11065171 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240108QMethod : P15_pest_2024_01_08_ugL_
Data File : 15240108i-05.D Operator : Pest15:akm
Date Inj'd : 1/8/2024 3:23 pm Instrument : Pest 15
Sample : il3pest,42e,,pp 11404 L0.0Quant Date : 1/12/2024 9:39 am

Compound #4: alpha-BHC



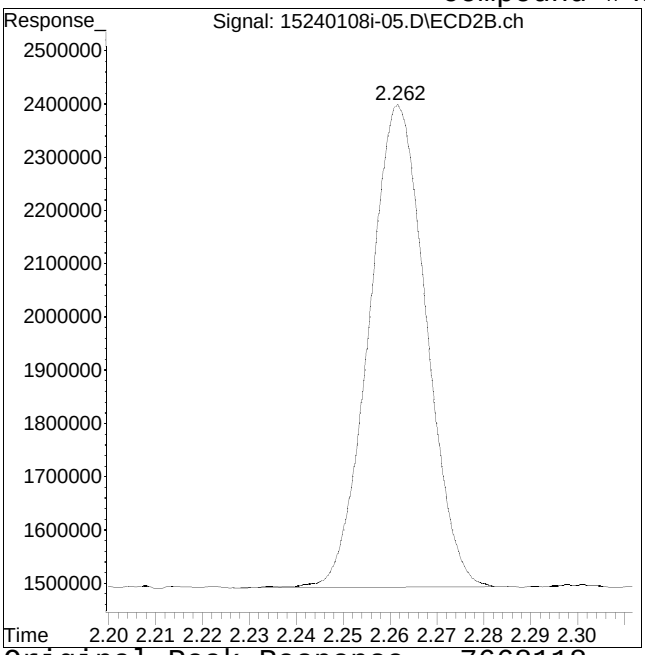


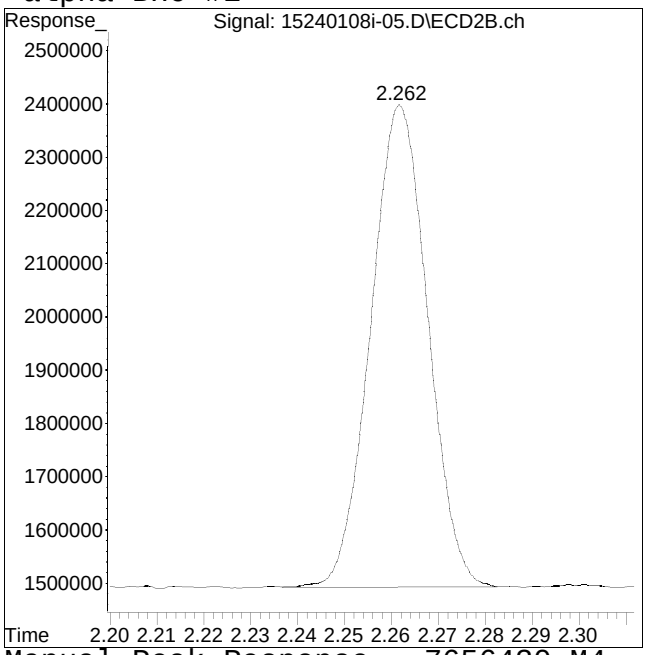
Original Peak Response = 11362903 Manual Peak Response = 11396091 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240108QMethod : P15_pest_2024_01_08_ugL_
Data File : 15240108i-05.D Operator : Pest15:akm
Date Inj'd : 1/8/2024 3:23 pm Instrument : Pest 15
Sample : il3pest,42e,,pp 11404 L0.0Quant Date : 1/12/2024 9:39 am

Compound #42: alpha-BHC #2



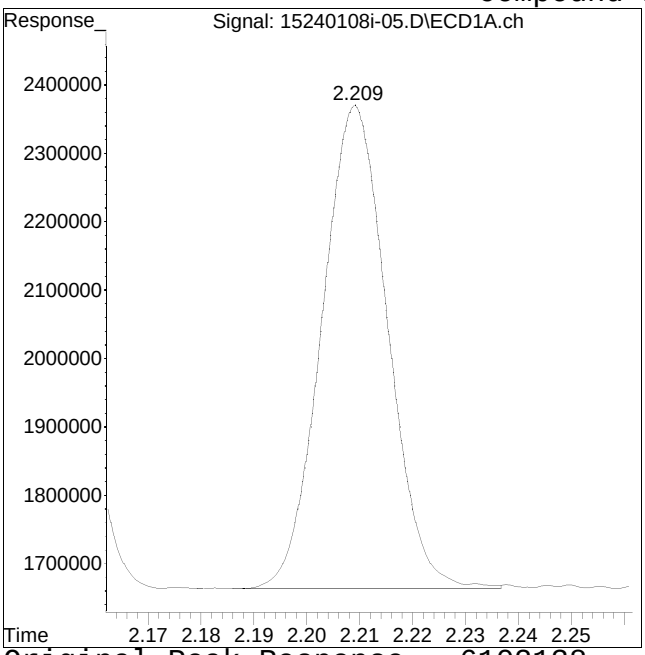


Original Peak Response = 7668118 Manual Peak Response = 7656430 M4
M4 = Poor automated baseline construction.

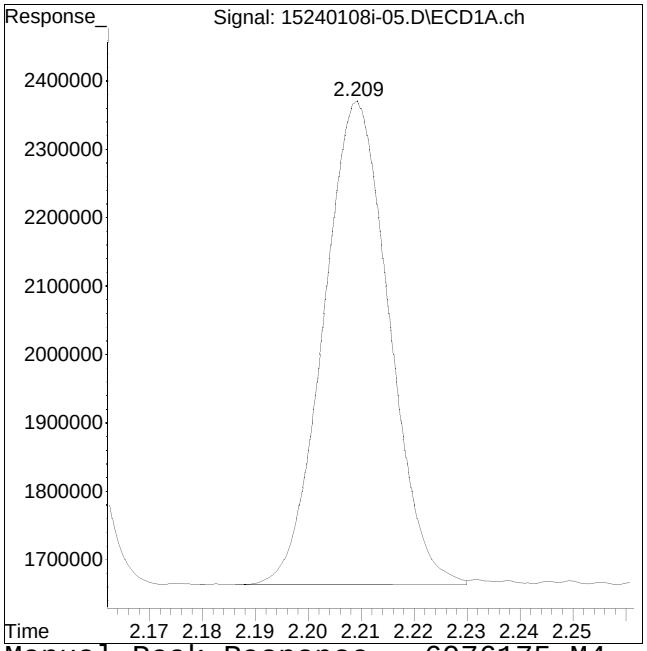
Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240108QMethod : P15_pest_2024_01_08_ugL_
Data File : 15240108i-05.D Operator : Pest15:akm
Date Inj'd : 1/8/2024 3:23 pm Instrument : Pest 15
Sample : il3pest,42e,,pp 11404 L0.0Quant Date : 1/12/2024 9:39 am

Compound #6: beta-BHC



Original Peak Response = 6102138



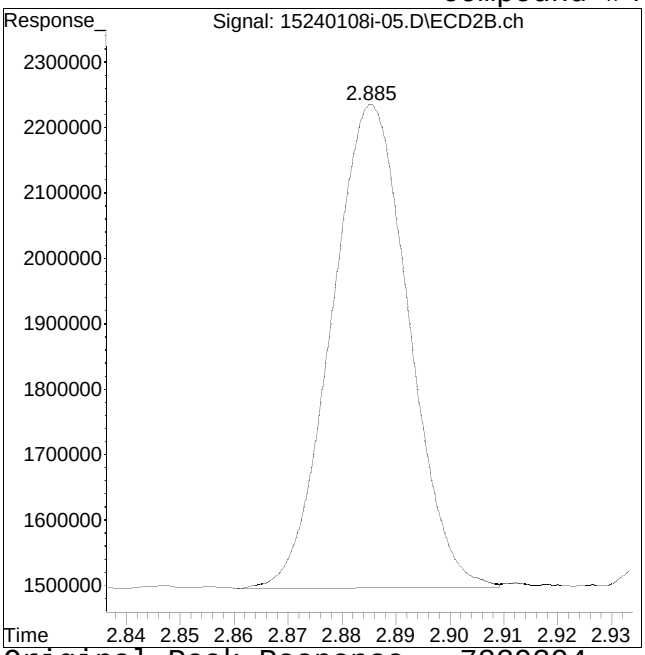
Manual Peak Response = 6076175 M4

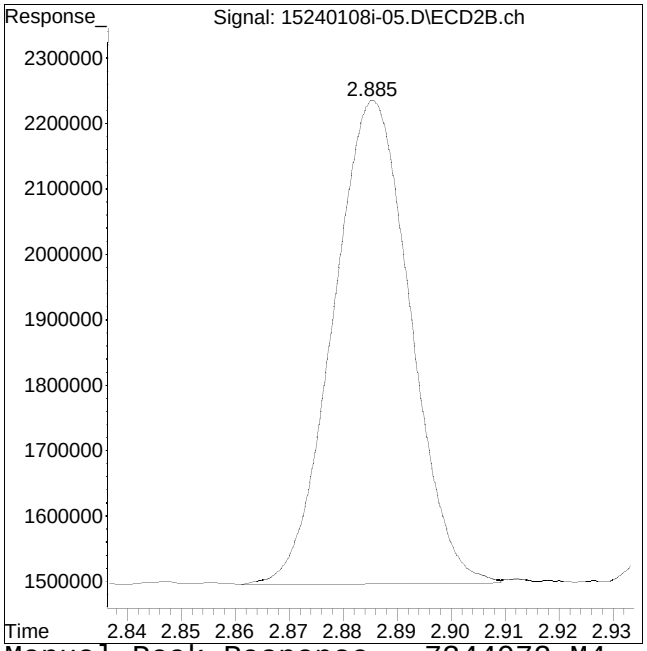
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240108QMethod : P15_pest_2024_01_08_ugL_
Data File : 15240108i-05.D Operator : Pest15:akm
Date Inj'd : 1/8/2024 3:23 pm Instrument : Pest 15
Sample : il3pest,42e,,pp 11404 L0.0Quant Date : 1/12/2024 9:39 am

Compound #45: delta-BHC #2



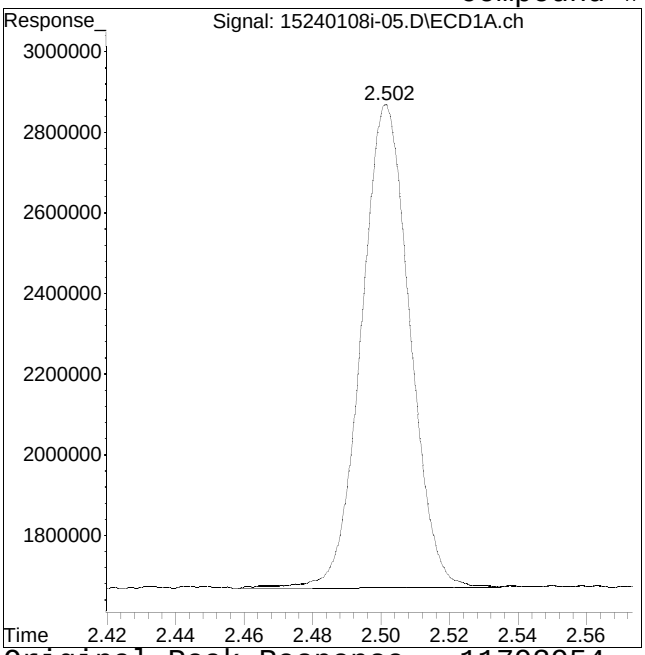


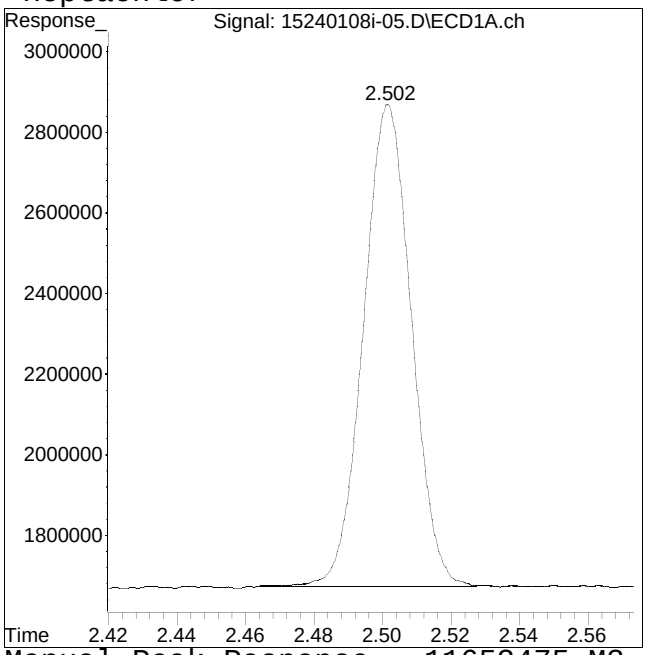
Original Peak Response = 7339394 Manual Peak Response = 7344072 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240108QMethod : P15_pest_2024_01_08_ugL_
Data File : 15240108i-05.D Operator : Pest15:akm
Date Inj'd : 1/8/2024 3:23 pm Instrument : Pest 15
Sample : il3pest,42e,,pp 11404 L0.0Quant Date : 1/12/2024 9:39 am

Compound #8: Heptachlor



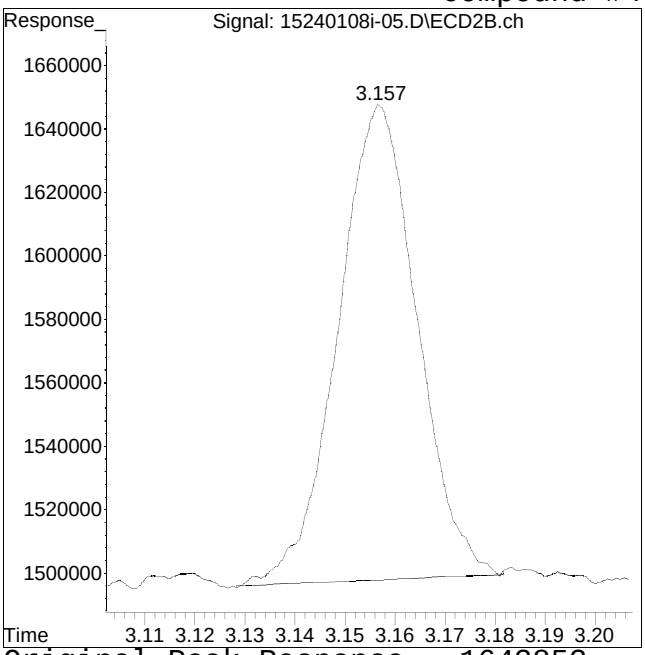


Original Peak Response = 11793954 Manual Peak Response = 11653475 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

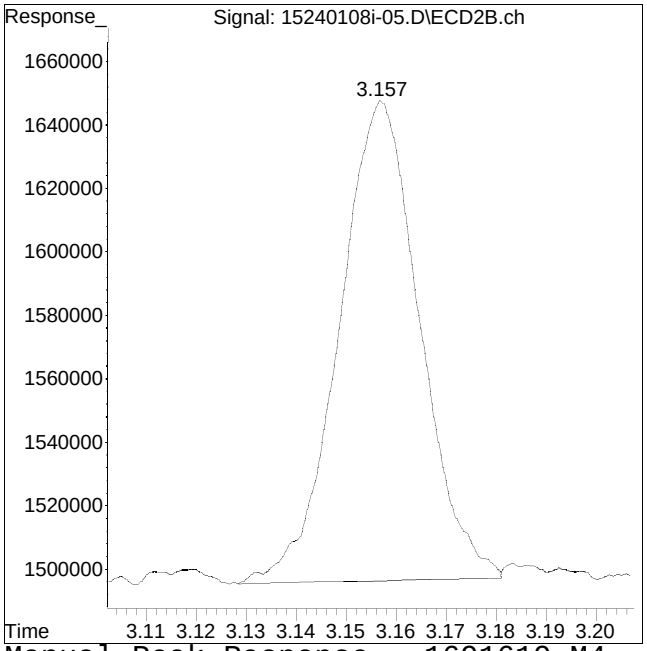
Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240108QMethod : P15_pest_2024_01_08_ugL_
Data File : 15240108i-05.D Operator : Pest15:akm
Date Inj'd : 1/8/2024 3:23 pm Instrument : Pest 15
Sample : il3pest,42e,,pp 11404 L0.0Quant Date : 1/12/2024 9:39 am

Compound #48: Alachlor #2



Original Peak Response = 1643853



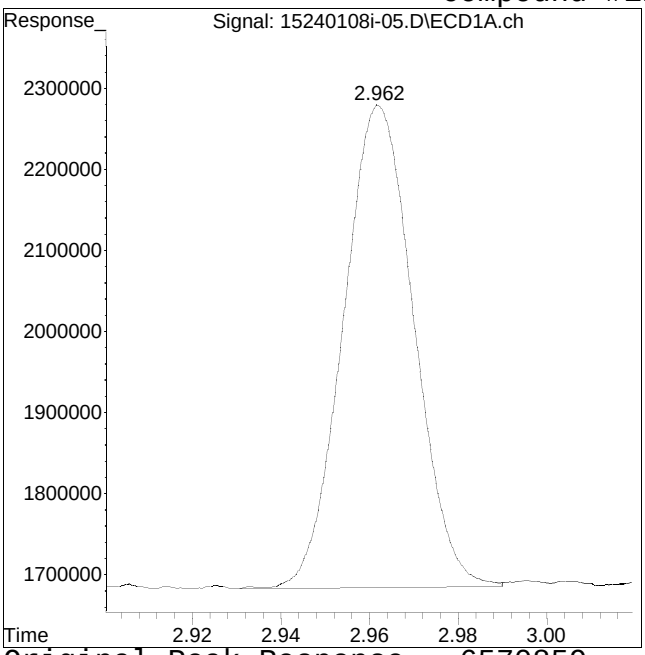
Manual Peak Response = 1691619 M4

M4 = Poor automated baseline construction.

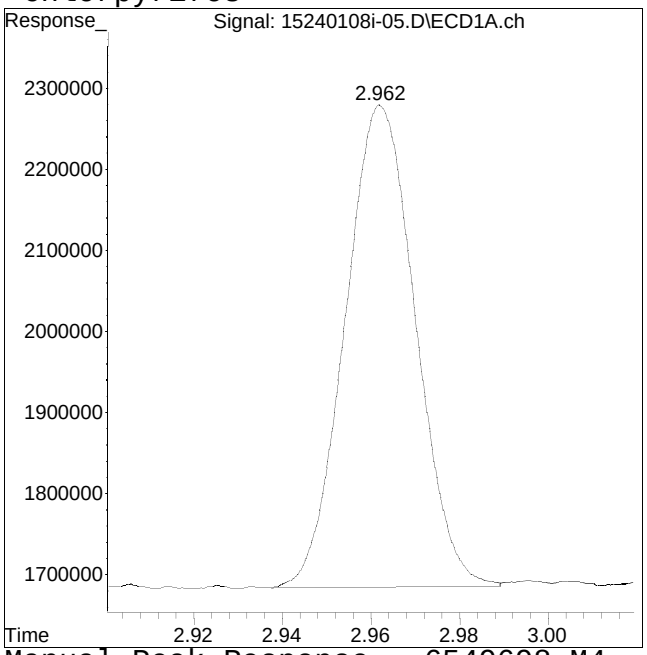
Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240108QMethod : P15_pest_2024_01_08_ugL_
Data File : 15240108i-05.D Operator : Pest15:akm
Date Inj'd : 1/8/2024 3:23 pm Instrument : Pest 15
Sample : il3pest,42e,,pp 11404 L0.0Quant Date : 1/12/2024 9:39 am

Compound #11: Chlorpyrifos



Original Peak Response = 6570859



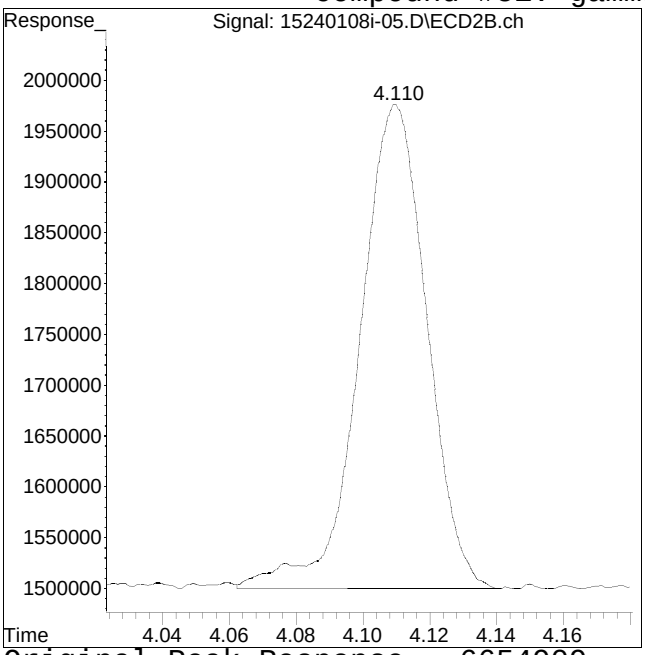
Manual Peak Response = 6549698 M4

M4 = Poor automated baseline construction.

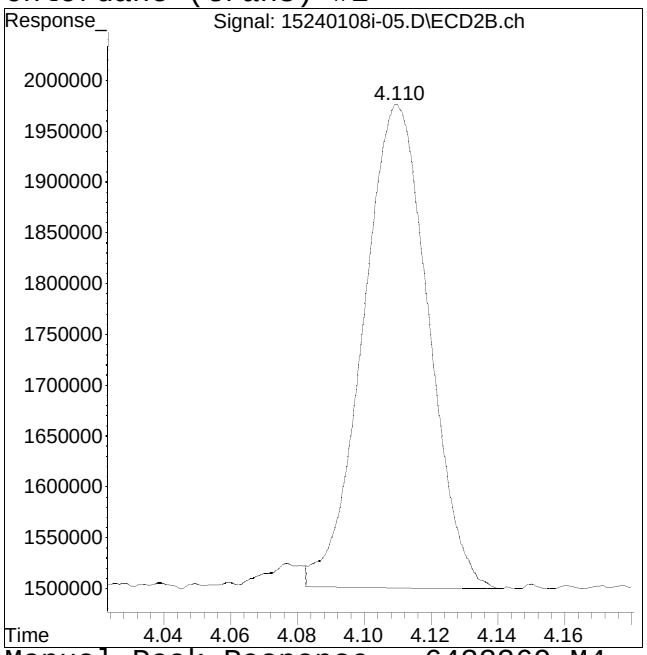
Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240108QMethod : P15_pest_2024_01_08_ugL_
Data File : 15240108i-05.D Operator : Pest15:akm
Date Inj'd : 1/8/2024 3:23 pm Instrument : Pest 15
Sample : il3pest,42e,,pp 11404 L0.0Quant Date : 1/12/2024 9:39 am

Compound #51: gamma-Chlordane (trans) #2



Original Peak Response = 6654909



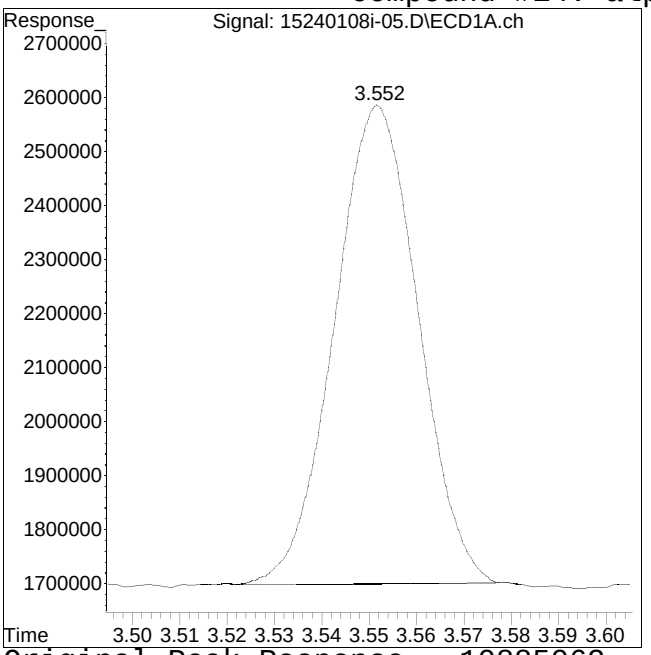
Manual Peak Response = 6433269 M4

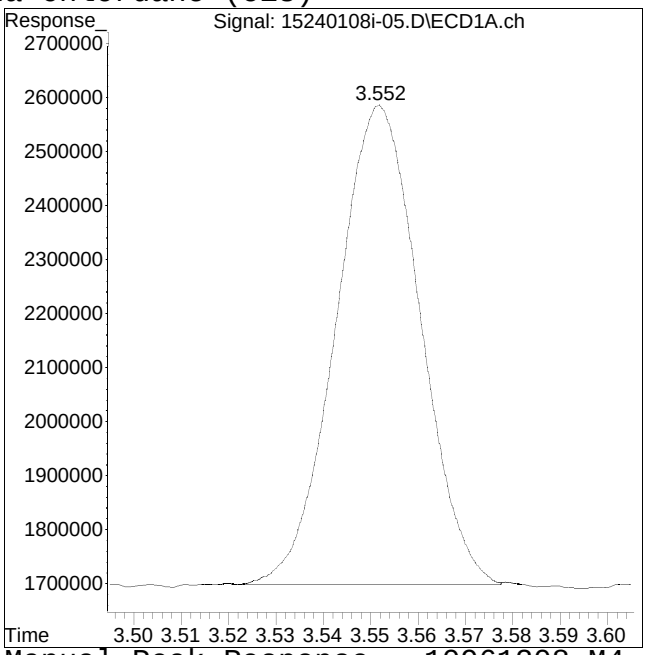
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240108QMethod : P15_pest_2024_01_08_ugL_
Data File : 15240108i-05.D Operator : Pest15:akm
Date Inj'd : 1/8/2024 3:23 pm Instrument : Pest 15
Sample : il3pest,42e,,pp 11404 L0.0Quant Date : 1/12/2024 9:39 am

Compound #14: alpha-Chlordane (cis)



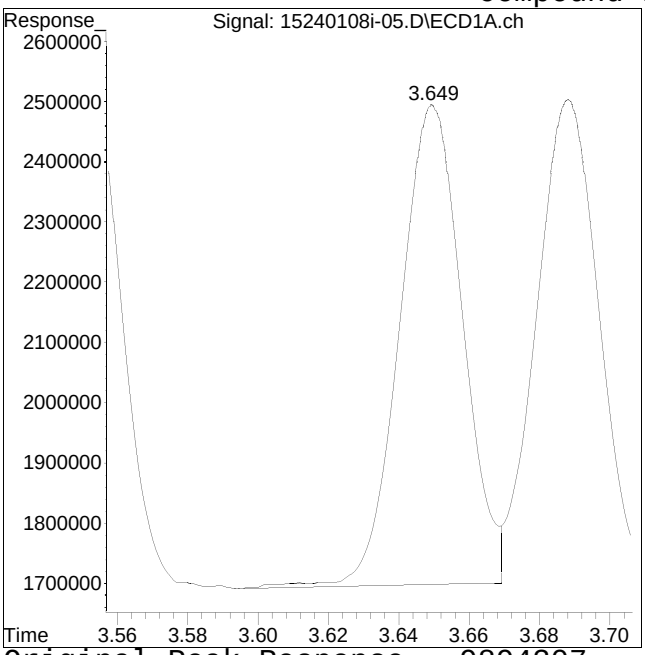


Original Peak Response = 10885062 Manual Peak Response = 10961208 M4
M4 = Poor automated baseline construction.

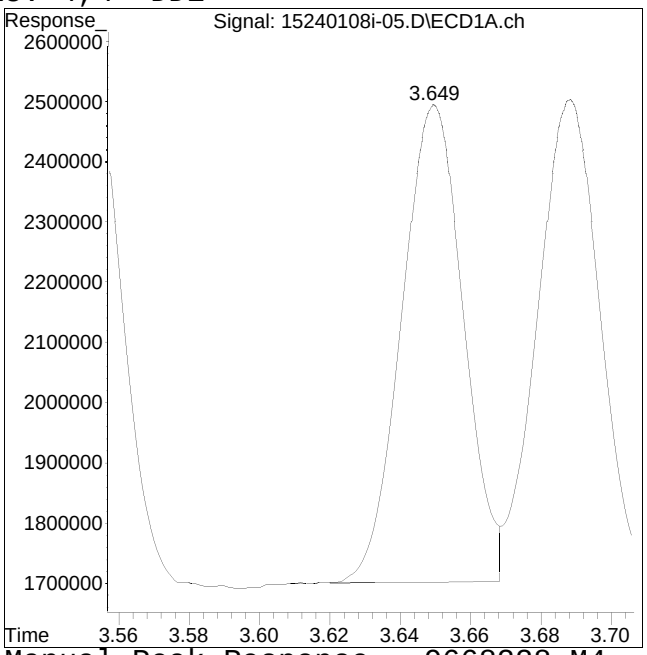
Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240108QMethod : P15_pest_2024_01_08_ugL_
Data File : 15240108i-05.D Operator : Pest15:akm
Date Inj'd : 1/8/2024 3:23 pm Instrument : Pest 15
Sample : il3pest,42e,,pp 11404 L0.0Quant Date : 1/12/2024 9:39 am

Compound #15: 4,4'-DDE



Original Peak Response = 9894307



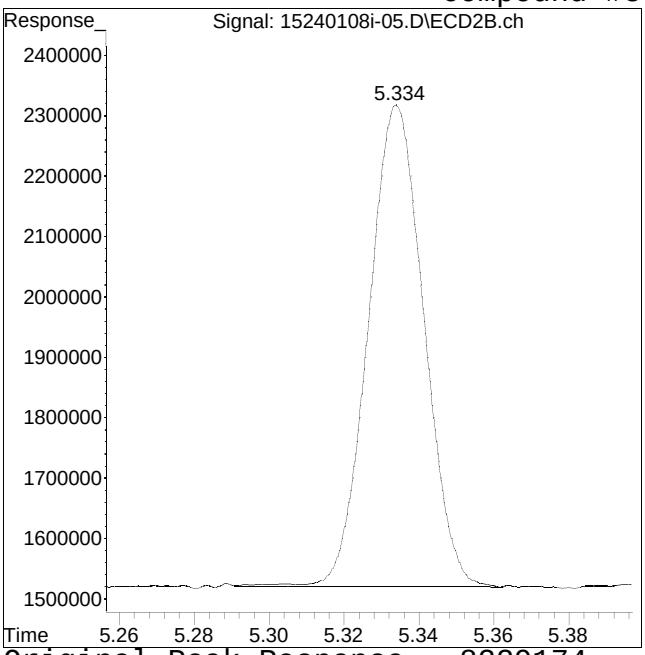
Manual Peak Response = 9668228 M4

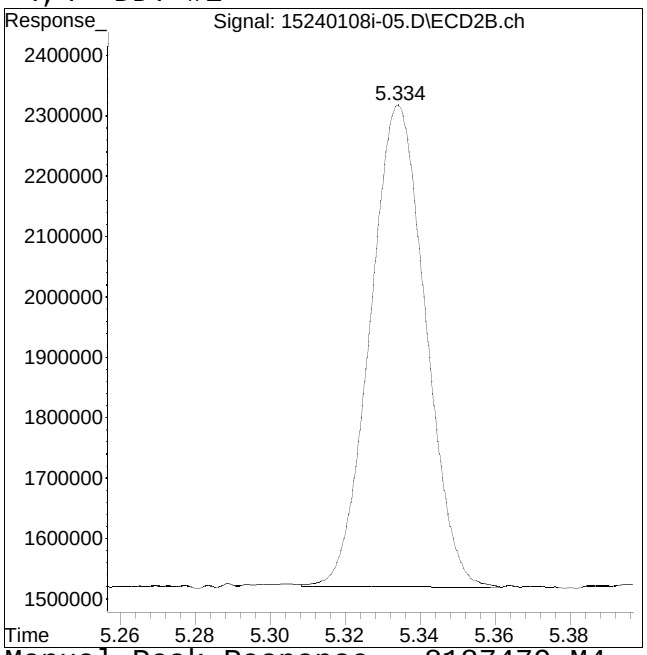
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240108QMethod : P15_pest_2024_01_08_ugL_
Data File : 15240108i-05.D Operator : Pest15:akm
Date Inj'd : 1/8/2024 3:23 pm Instrument : Pest 15
Sample : il3pest,42e,,pp 11404 L0.0Quant Date : 1/12/2024 9:39 am

Compound #59: 4,4'-DDT #2



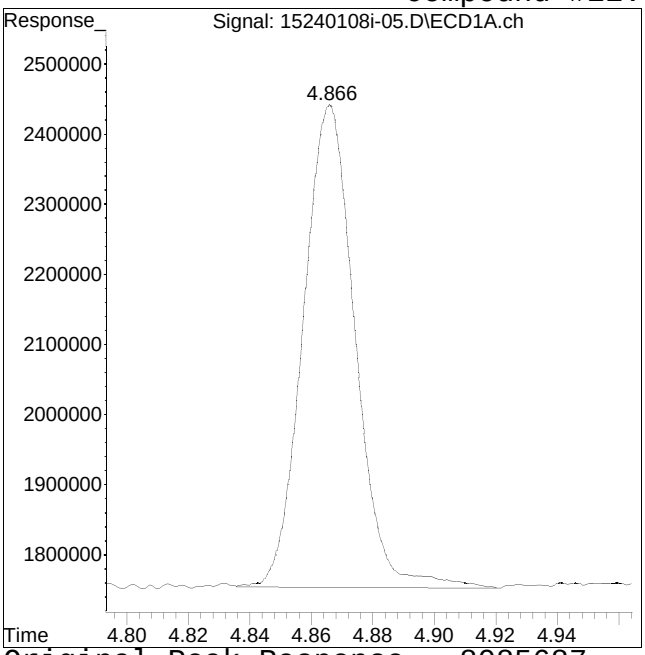


Original Peak Response = 8229174 Manual Peak Response = 8187479 M4
M4 = Poor automated baseline construction.

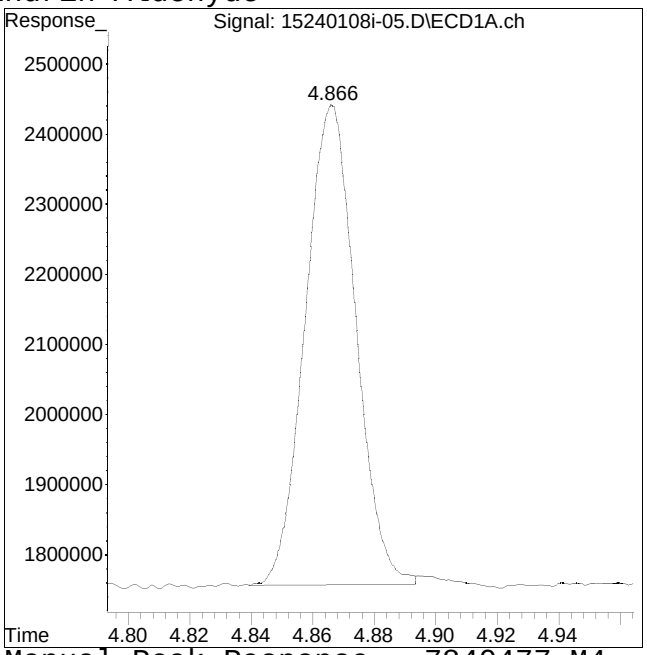
Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240108QMethod : P15_pest_2024_01_08_ugL_
Data File : 15240108i-05.D Operator : Pest15:akm
Date Inj'd : 1/8/2024 3:23 pm Instrument : Pest 15
Sample : il3pest,42e,,pp 11404 L0.0Quant Date : 1/12/2024 9:39 am

Compound #22: Endrin Aldehyde



Original Peak Response = 8085687



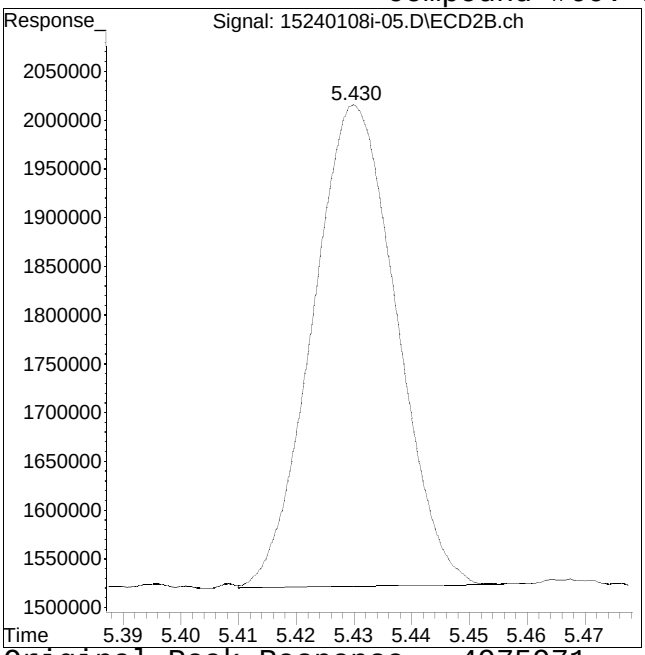
Manual Peak Response = 7840477 M4

M4 = Poor automated baseline construction.

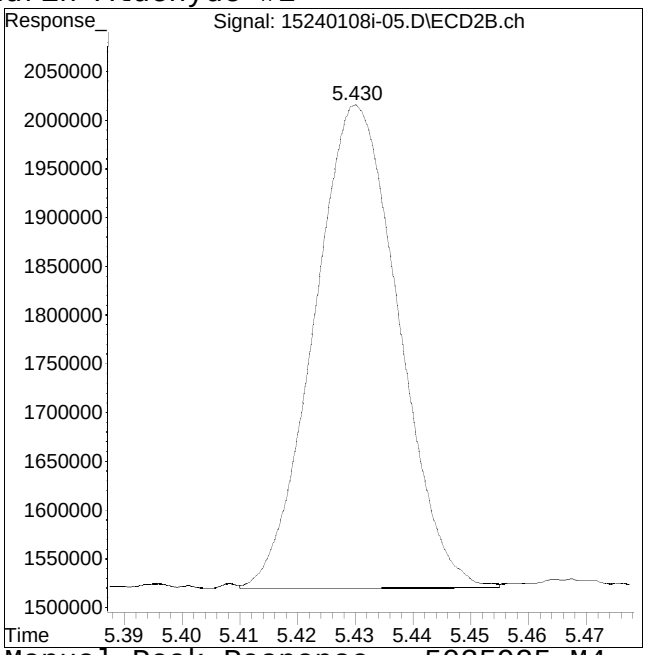
Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240108QMethod : P15_pest_2024_01_08_ugL_
Data File : 15240108i-05.D Operator : Pest15:akm
Date Inj'd : 1/8/2024 3:23 pm Instrument : Pest 15
Sample : il3pest,42e,,pp 11404 L0.0Quant Date : 1/12/2024 9:39 am

Compound #60: Endrin Aldehyde #2



Original Peak Response = 4975971



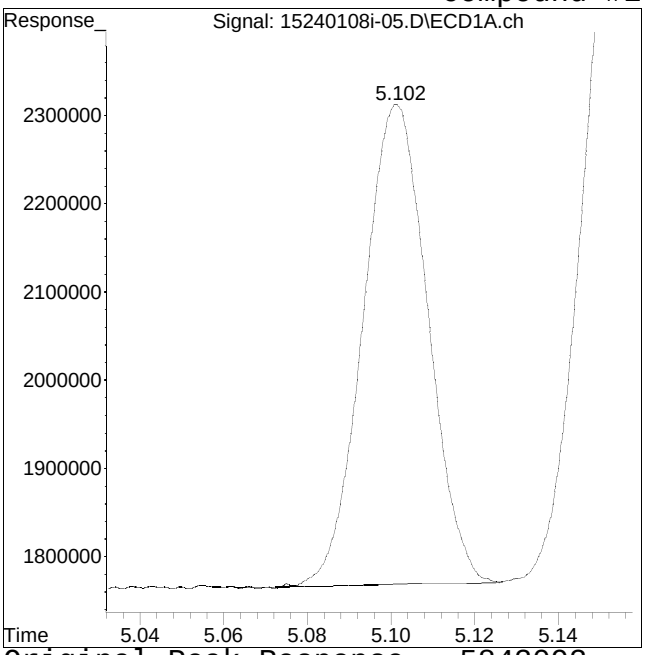
Manual Peak Response = 5035925 M4

M4 = Poor automated baseline construction.

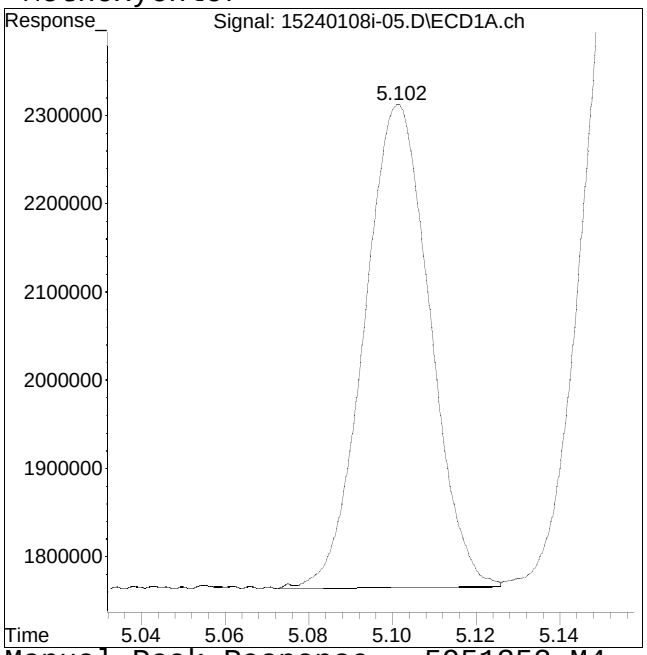
Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240108QMethod : P15_pest_2024_01_08_ugL_
Data File : 15240108i-05.D Operator : Pest15:akm
Date Inj'd : 1/8/2024 3:23 pm Instrument : Pest 15
Sample : il3pest,42e,,pp 11404 L0.0Quant Date : 1/12/2024 9:39 am

Compound #23: Methoxychlor



Original Peak Response = 5843093



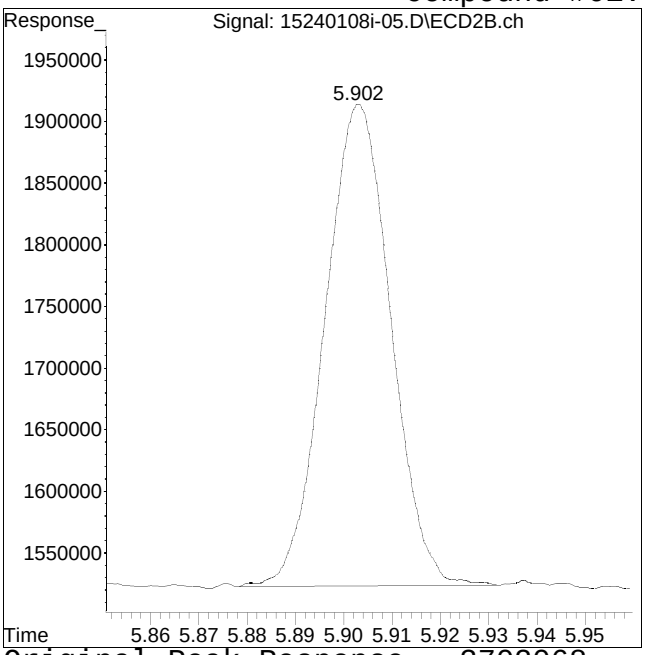
Manual Peak Response = 5951352 M4

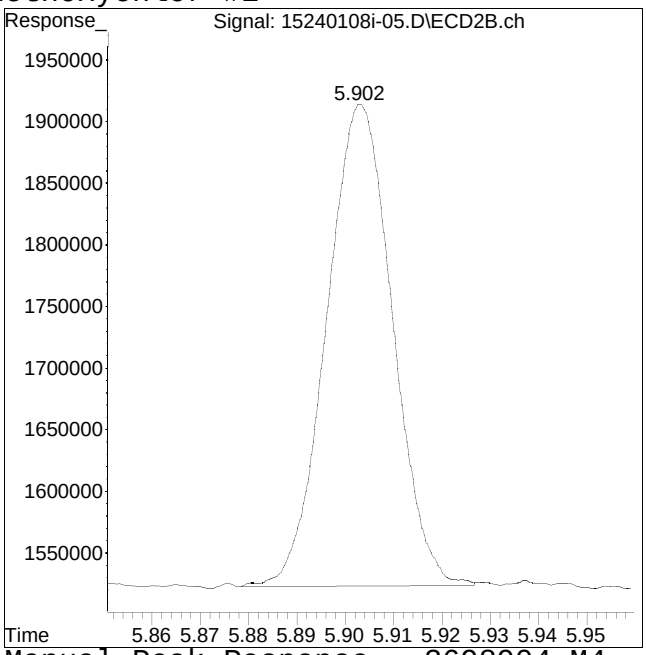
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240108QMethod : P15_pest_2024_01_08_ugL_
Data File : 15240108i-05.D Operator : Pest15:akm
Date Inj'd : 1/8/2024 3:23 pm Instrument : Pest 15
Sample : il3pest,42e,,pp 11404 L0.0Quant Date : 1/12/2024 9:39 am

Compound #61: Methoxychlor #2



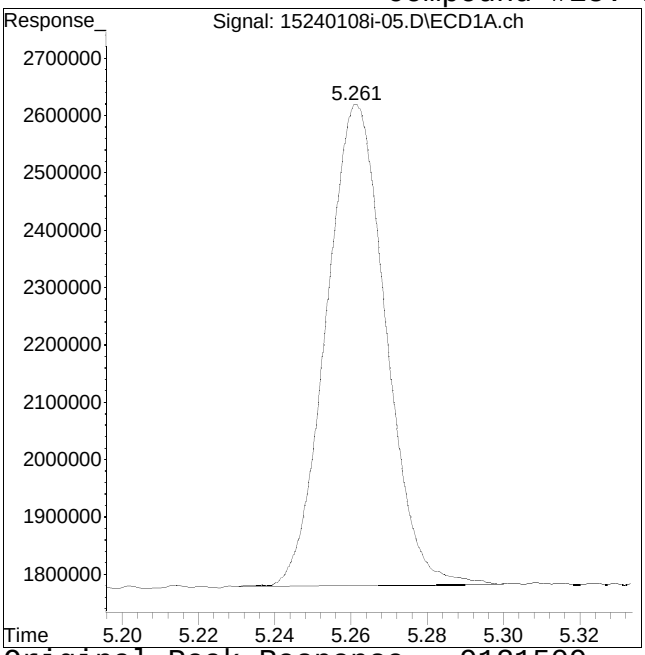


Original Peak Response = 3702068 Manual Peak Response = 3698904 M4
M4 = Poor automated baseline construction.

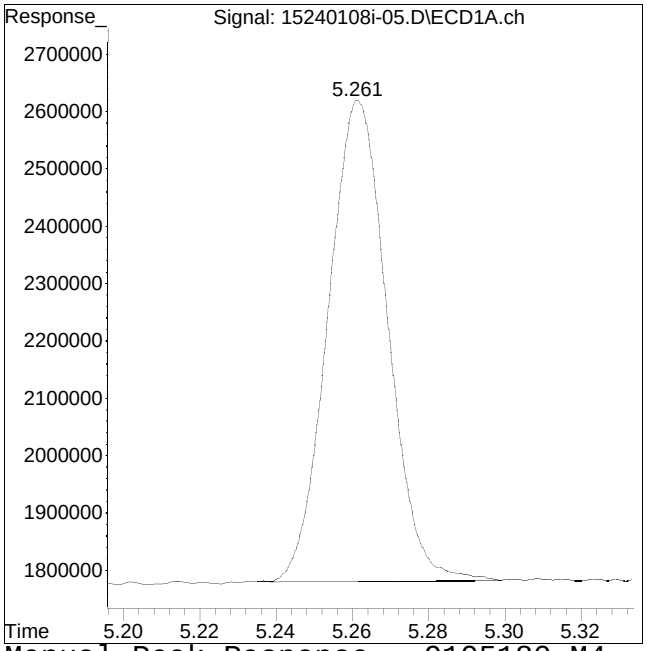
Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240108QMethod : P15_pest_2024_01_08_ugL_
Data File : 15240108i-05.D Operator : Pest15:akm
Date Inj'd : 1/8/2024 3:23 pm Instrument : Pest 15
Sample : il3pest,42e,,pp 11404 L0.0Quant Date : 1/12/2024 9:39 am

Compound #25: Endosulfan Sulfate



Original Peak Response = 9121509



Manual Peak Response = 9105180 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest15\2024\240108ical\
Data File : 15240108i-06.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 8 Jan 2024 3:35 pm
Operator : Pest15:akm
Sample : il4pest,42e,,pp 11403 L0.003
Misc : WG1874875, (Sig #1); ical (Sig #2)
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Jan 12 09:38:08 2024
Quant Method : I:\PEST\Pest15\2024\240108ical\P15_pest_2024_01_08_ugL_ICAL.m
Quant Title : pest
QLast Update : Fri Jan 12 09:30:09 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	1.249	1.331	105.0E6	68442111	25.000	25.000
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.618	1.835	14624975	9971913	3.457	3.552
	Spiked Amount 50.000	Range 30 - 150		Recovery =		6.91%#	7.10%#
27) s	Decachlorobi	6.295	6.940	15366335	9144960	3.765	4.092
	Spiked Amount 50.000	Range 30 - 150		Recovery =		7.53%#	8.18%#
	Target Compounds						
3)	Hexachlorobe	1.840	2.163	16462498	11109613	3.616	3.751
4)	alpha-BHC	1.942	2.261	17583398	11367671	3.048	3.114
5)	gamma-BHC (l	2.148	2.551	16812877	10949142	3.149M4	3.275
6)	beta-BHC	2.207	2.616	8992332	6137836	3.610	3.868
7)	delta-BHC	2.337	2.885	16451419	10872638	3.064	3.216
8)	Heptachlor	2.499	2.951	17585388	11110196	3.407	3.548
9)	Aldrin	2.743	3.271	15650347	10209473	3.232	3.406
10)	Alachlor	2.867	3.156	2926608	2510020	3.772M4	3.781
11)	Chlorpyrifos	2.959	3.510	9740110	6457062	4.100M4	4.386M4
12)	Heptachlor E	3.290	3.888	16200428	10458538	3.474	3.651M4
13)	gamma-Chlord	3.415	4.108	14623398	9503008	3.430	3.656M3
14)	alpha-Chlord	3.549	4.279	16779785	10541832	3.465	3.640
15)	4,4'-DDE	3.646	4.476	15044899	9771394	3.207	3.372M4
16)	Endosulfan I	3.685	4.340	15125417	9770961	3.431	3.641M4
17)	Dieldrin	3.946	4.633	15101181	9569786	3.261	3.491M4
18)	Endrin	4.200	4.931	15713073	9791685	3.308	3.538M4
19)	4,4'-DDD	4.312	5.055	13280247	8314658	3.380	3.621
20)	Endosulfan I	4.443	5.131	14250292	8836353	3.450	3.641M4
21)	4,4'-DDT	4.607	5.333	17157926	10495435	3.853	4.102M4
22)	Endrin Aldeh	4.863	5.429	11925589	7476142	3.432M4	3.640M4

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest15\2024\240108ical\
Data File : 15240108i-06.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 8 Jan 2024 3:35 pm
Operator : Pest15:akm
Sample : il4pest,42e,,pp 11403 L0.003
Misc : WG1874875, (Sig #1); ical (Sig #2)
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Jan 12 09:38:08 2024
Quant Method : I:\PEST\Pest15\2024\240108ical\P15_pest_2024_01_08_ugL_ICAL.m
Quant Title : pest
QLast Update : Fri Jan 12 09:30:09 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
23)	Methoxychlor	5.100	5.902	8881699	5478901	3.705	4.090M4
24)	Mirex	5.153	6.039	14386028	8561586	3.804	4.158
25)	Endosulfan S	5.260	5.659	13755863	8474557	3.482	3.747
26)	Endrin Keton	5.488	6.074	15603491	9495721	3.445M4	3.671
29) l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

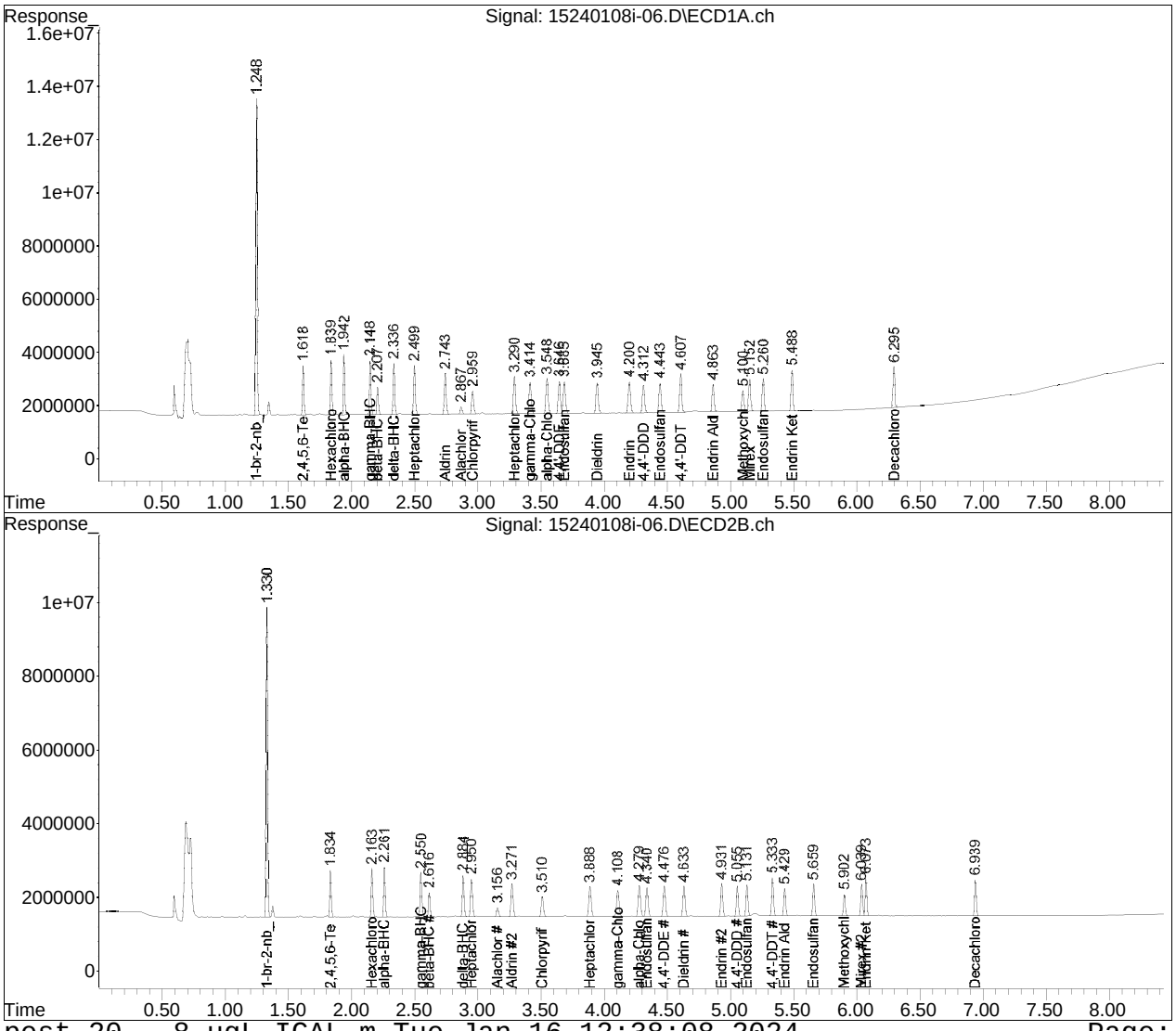
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest15\2024\240108ical\
Data File : 15240108i-06.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 8 Jan 2024 3:35 pm
Operator : Pest15:akm
Sample : il4pest,42e,,pp 11403 L0.003
Misc : WG1874875, (Sig #1); ical (Sig #2)
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Jan 12 09:38:08 2024
Quant Method : I:\PEST\Pest15\2024\240108ical\P15_pest_2024_01_08_ugL_ICAL.m
Quant Title : pest
QLast Update : Fri Jan 12 09:30:09 2024
Response via : Initial Calibration
Integrator: ChemStation

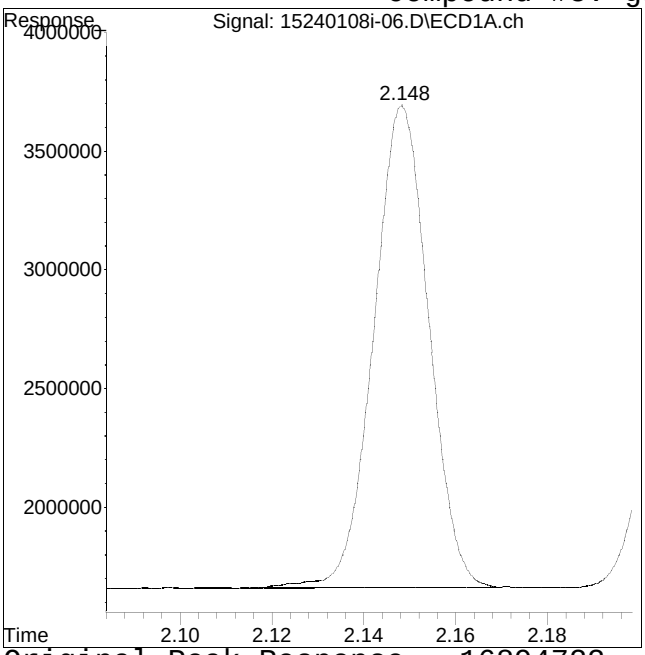
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

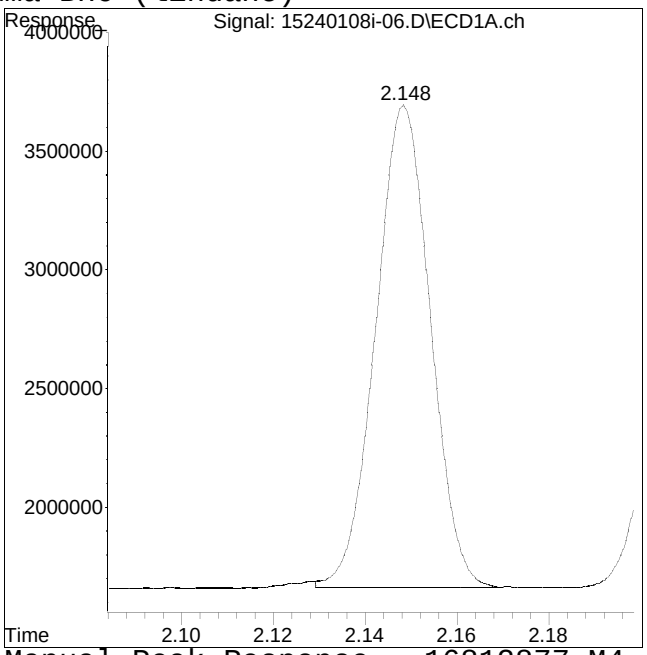


Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240108QMethod : P15_pest_2024_01_08_ugL_
Data File : 15240108i-06.D Operator : Pest15:akm
Date Inj'd : 1/8/2024 3:35 pm Instrument : Pest 15
Sample : il4pest,42e,,pp 11403 L0.0Quant Date : 1/12/2024 9:30 am

Compound #5: gamma-BHC (lindane)



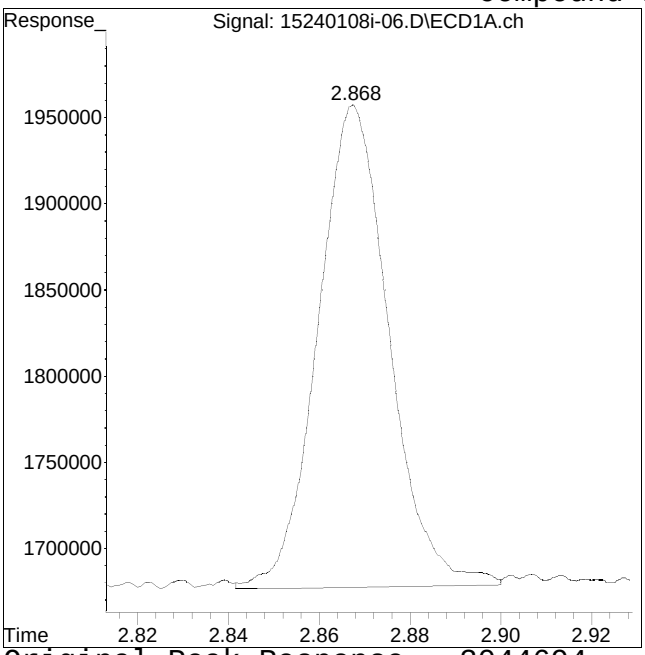


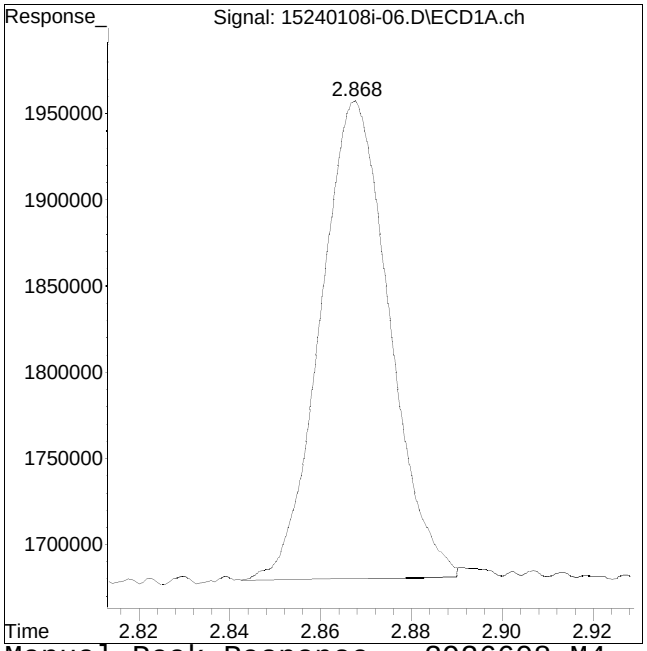
Original Peak Response = 16894722 Manual Peak Response = 16812877 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240108QMethod : P15_pest_2024_01_08_ugL_
Data File : 15240108i-06.D Operator : Pest15:akm
Date Inj'd : 1/8/2024 3:35 pm Instrument : Pest 15
Sample : il4pest,42e,,pp 11403 L0.0Quant Date : 1/12/2024 9:30 am

Compound #10: Alachlor



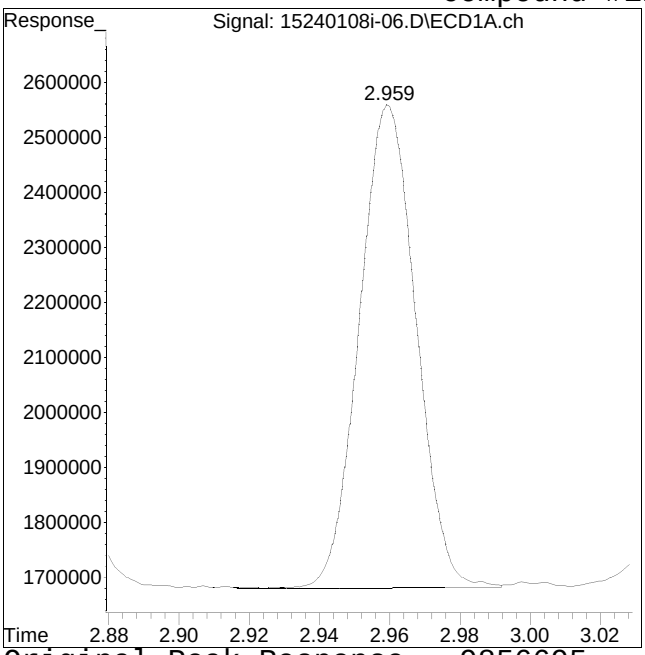


Original Peak Response = 3044694 Manual Peak Response = 2926608 M4
M4 = Poor automated baseline construction.

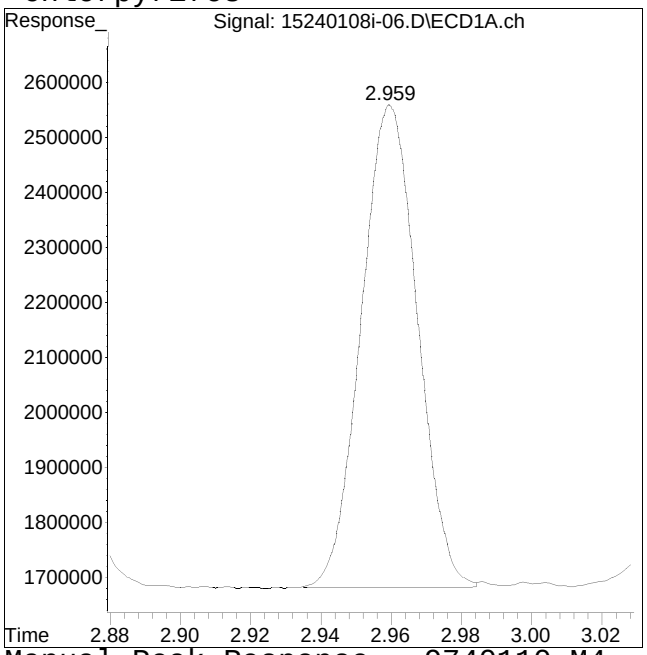
Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240108QMethod : P15_pest_2024_01_08_ugL_
Data File : 15240108i-06.D Operator : Pest15:akm
Date Inj'd : 1/8/2024 3:35 pm Instrument : Pest 15
Sample : il4pest,42e,,pp 11403 L0.0Quant Date : 1/12/2024 9:30 am

Compound #11: Chlorpyrifos



Original Peak Response = 9856695



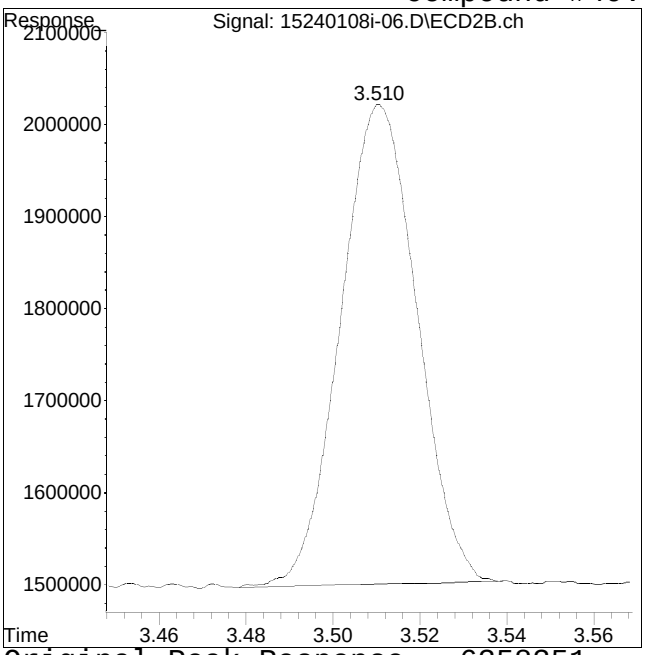
Manual Peak Response = 9740110 M4

M4 = Poor automated baseline construction.

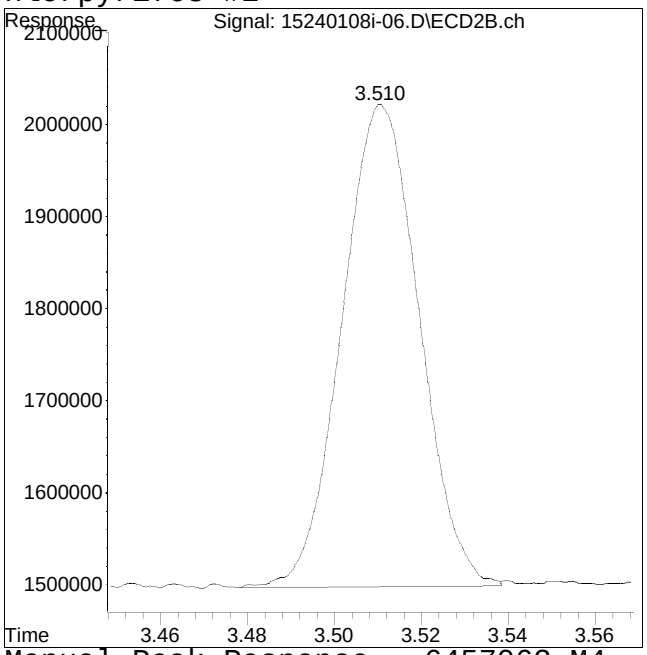
Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240108Q
Data File : 15240108i-06.D
Date Inj'd : 1/8/2024 3:35 pm
Sample : il4pest,42e,,pp 11403 L0.0
Method : P15_pest_2024_01_08_ugL_
Operator : Pest15:akm
Instrument : Pest 15
Quant Date : 1/12/2024 9:30 am

Compound #49: Chlorpyrifos #2



Original Peak Response = 6358351



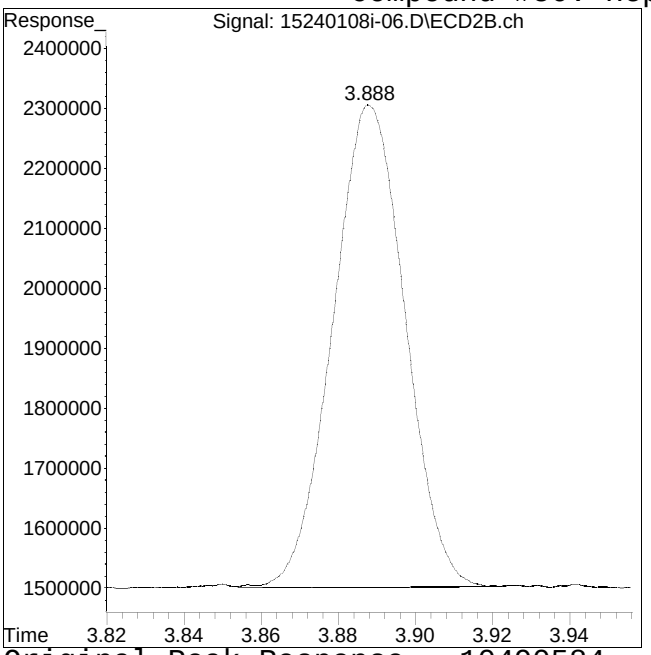
Manual Peak Response = 6457062 M4

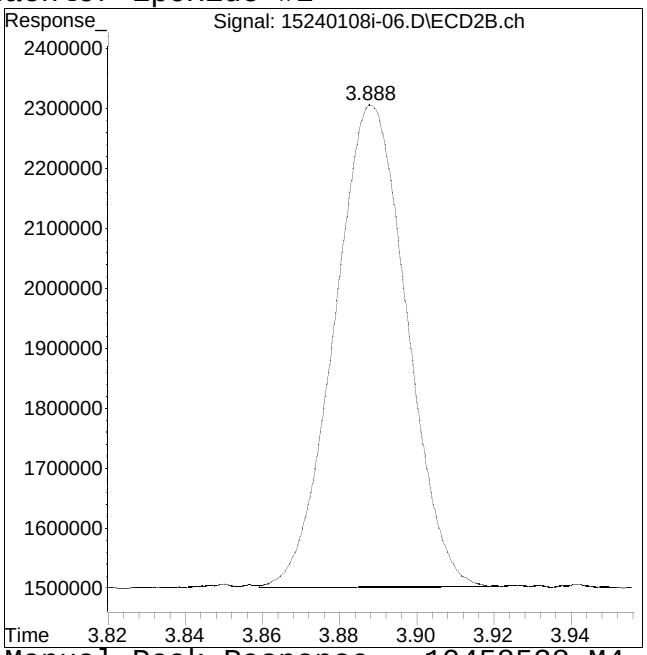
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240108QMethod : P15_pest_2024_01_08_ugL_
Data File : 15240108i-06.D Operator : Pest15:akm
Date Inj'd : 1/8/2024 3:35 pm Instrument : Pest 15
Sample : il4pest,42e,,pp 11403 L0.0Quant Date : 1/12/2024 9:30 am

Compound #50: Heptachlor Epoxide #2



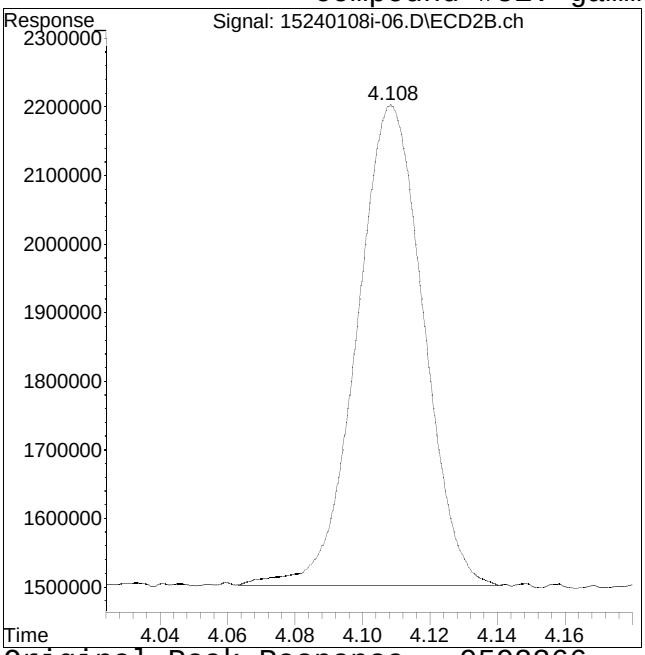


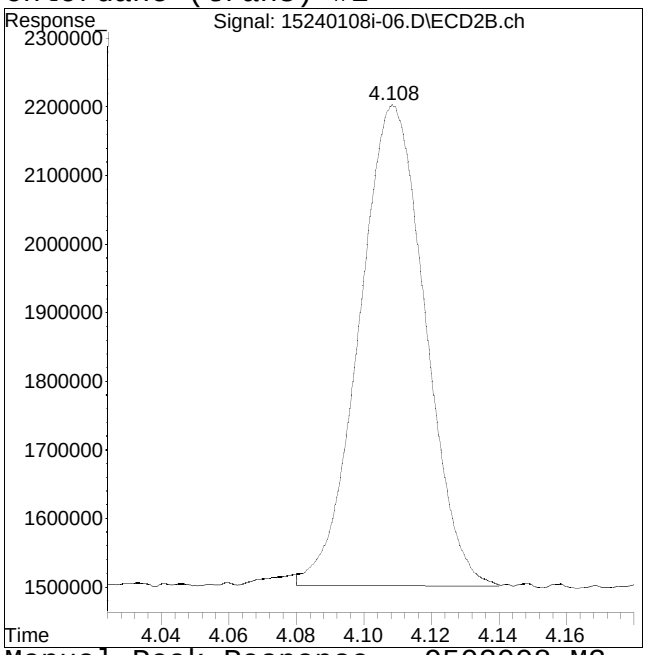
Original Peak Response = 10490584 Manual Peak Response = 10458538 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240108QMethod : P15_pest_2024_01_08_ugL_
Data File : 15240108i-06.D Operator : Pest15:akm
Date Inj'd : 1/8/2024 3:35 pm Instrument : Pest 15
Sample : il4pest,42e,,pp 11403 L0.0Quant Date : 1/12/2024 9:30 am

Compound #51: gamma-Chlordane (trans) #2





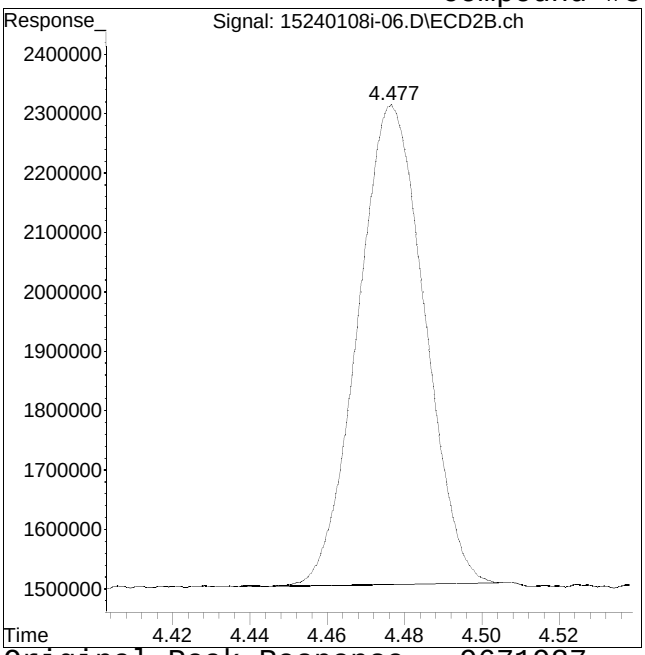
Original Peak Response = 9592366 Manual Peak Response = 9503008 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

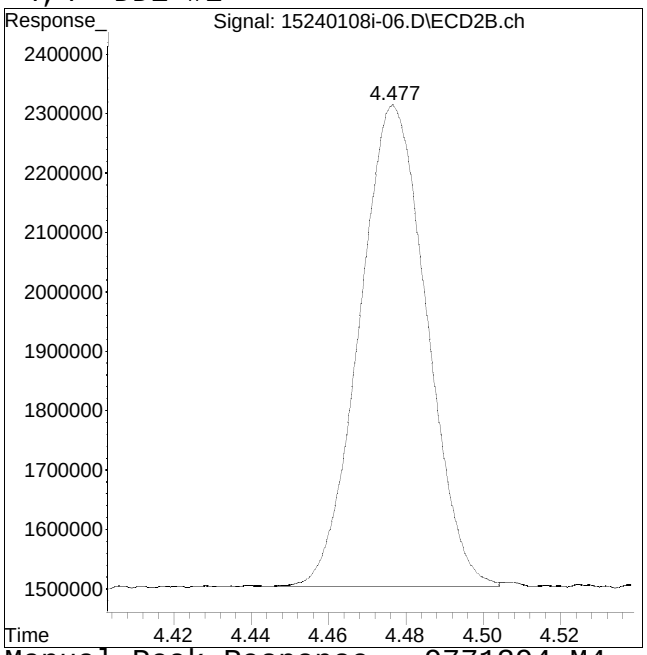
Data Path : I:\PEST\Pest15\2024\240108Q
Data File : 15240108i-06.D
Date Inj'd : 1/8/2024 3:35 pm
Sample : il4pest,42e,,pp 11403 L0.0

Method : P15_pest_2024_01_08_ugL_
Operator : Pest15:akm
Instrument : Pest 15
Quant Date : 1/12/2024 9:30 am

Compound #53: 4,4'-DDE #2



Original Peak Response = 9671927



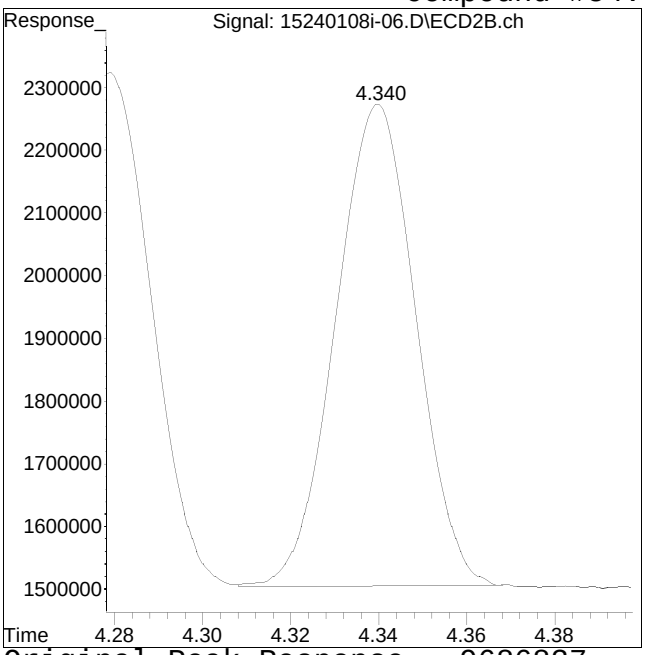
Manual Peak Response = 9771394 M4

M4 = Poor automated baseline construction.

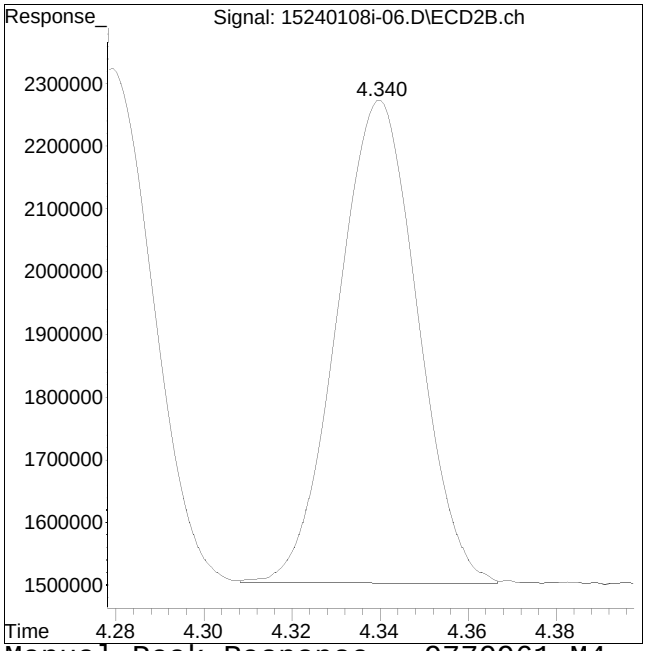
Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240108QMethod : P15_pest_2024_01_08_ugL_
Data File : 15240108i-06.D Operator : Pest15:akm
Date Inj'd : 1/8/2024 3:35 pm Instrument : Pest 15
Sample : il4pest,42e,,pp 11403 L0.0Quant Date : 1/12/2024 9:30 am

Compound #54: Endosulfan I #2



Original Peak Response = 9686837



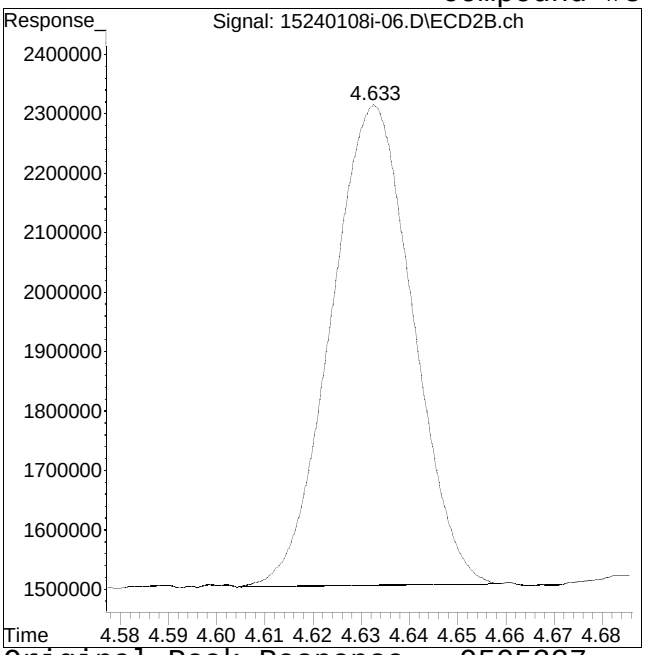
Manual Peak Response = 9770961 M4

M4 = Poor automated baseline construction.

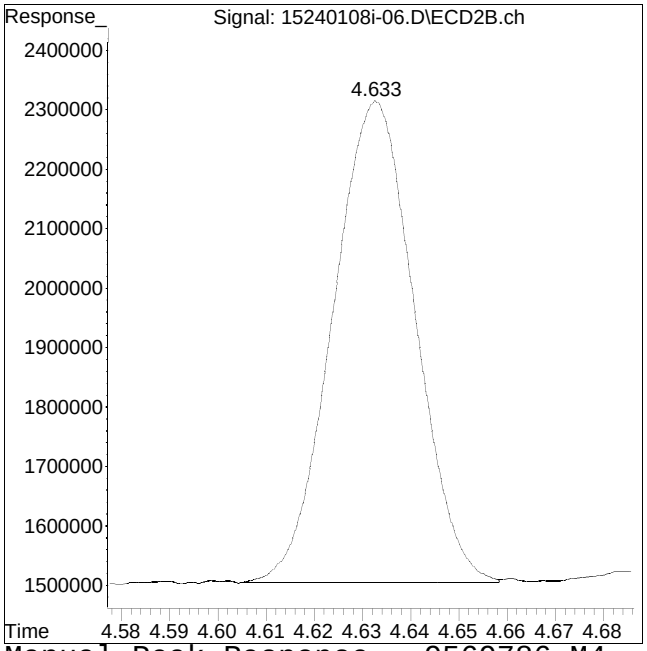
Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240108QMethod : P15_pest_2024_01_08_ugL_
Data File : 15240108i-06.D Operator : Pest15:akm
Date Inj'd : 1/8/2024 3:35 pm Instrument : Pest 15
Sample : il4pest,42e,,pp 11403 L0.0Quant Date : 1/12/2024 9:30 am

Compound #55: Dieldrin #2



Original Peak Response = 9505237



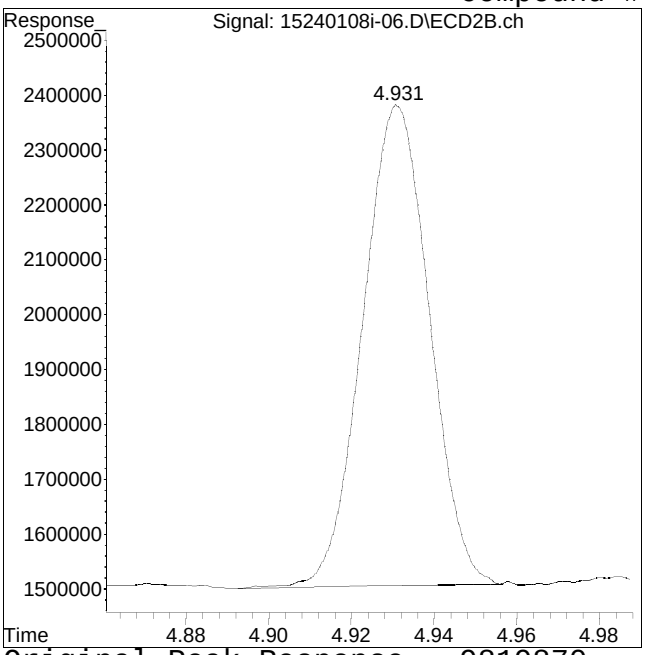
Manual Peak Response = 9569786 M4

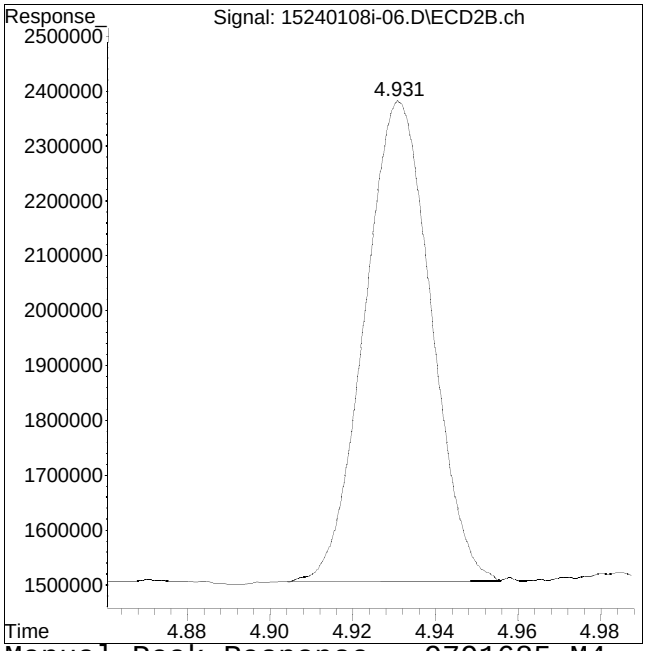
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240108QMethod : P15_pest_2024_01_08_ugL_
Data File : 15240108i-06.D Operator : Pest15:akm
Date Inj'd : 1/8/2024 3:35 pm Instrument : Pest 15
Sample : il4pest,42e,,pp 11403 L0.0Quant Date : 1/12/2024 9:30 am

Compound #56: Endrin #2



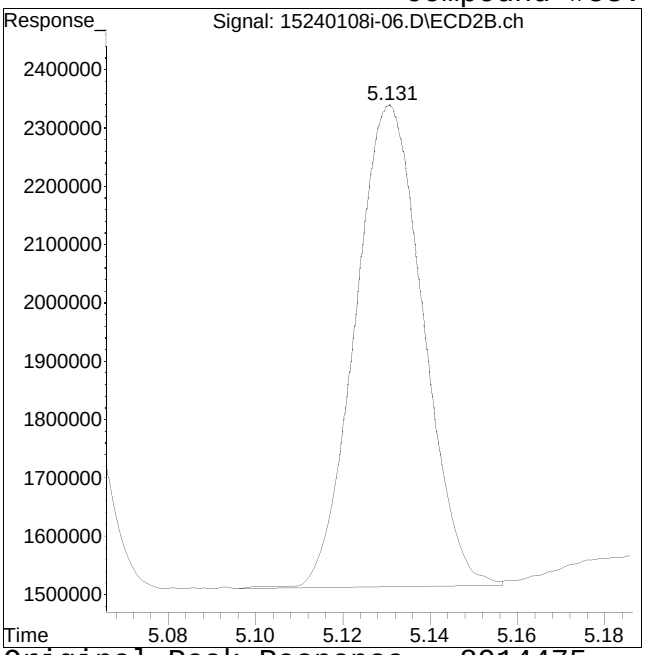


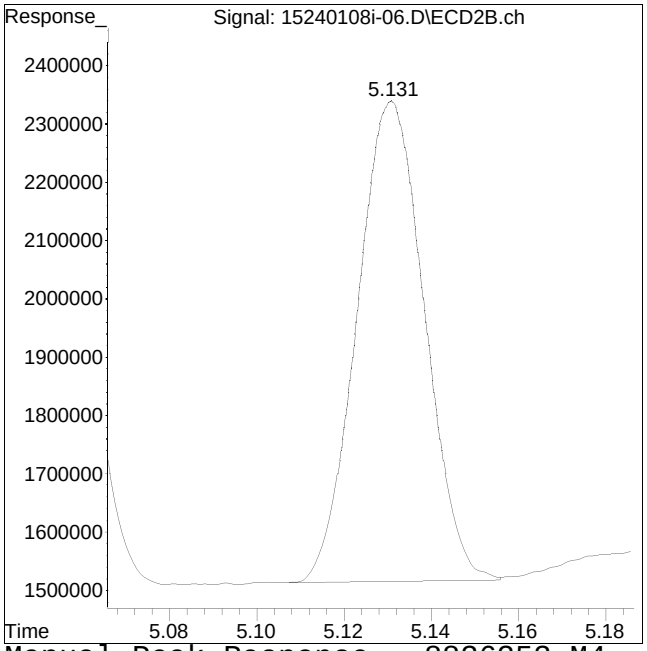
Original Peak Response = 9819870 Manual Peak Response = 9791685 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240108QMethod : P15_pest_2024_01_08_ugL_
Data File : 15240108i-06.D Operator : Pest15:akm
Date Inj'd : 1/8/2024 3:35 pm Instrument : Pest 15
Sample : il4pest,42e,,pp 11403 L0.0Quant Date : 1/12/2024 9:30 am

Compound #58: Endosulfan II #2



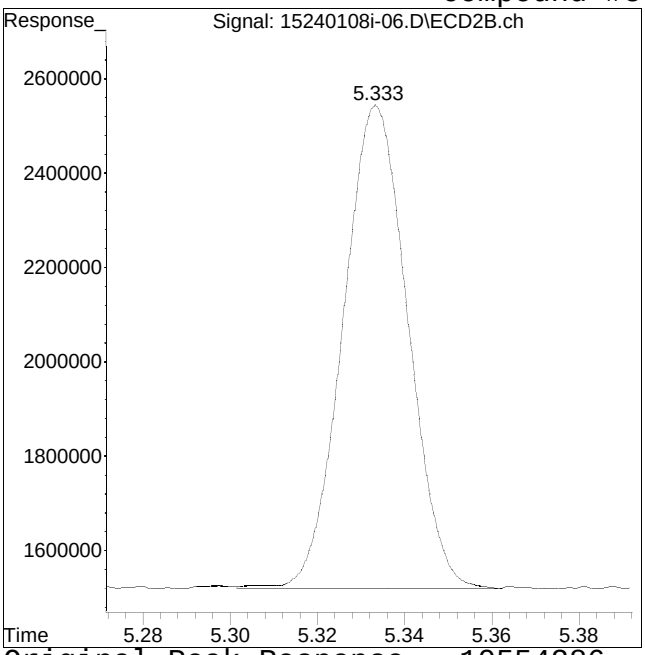


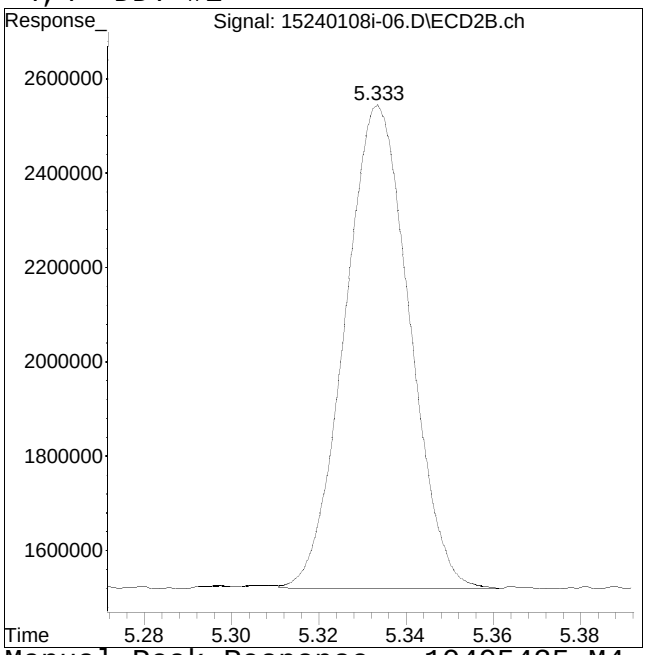
Original Peak Response = 8914475 Manual Peak Response = 8836353 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240108QMethod : P15_pest_2024_01_08_ugL_
Data File : 15240108i-06.D Operator : Pest15:akm
Date Inj'd : 1/8/2024 3:35 pm Instrument : Pest 15
Sample : il4pest,42e,,pp 11403 L0.0Quant Date : 1/12/2024 9:30 am

Compound #59: 4,4'-DDT #2



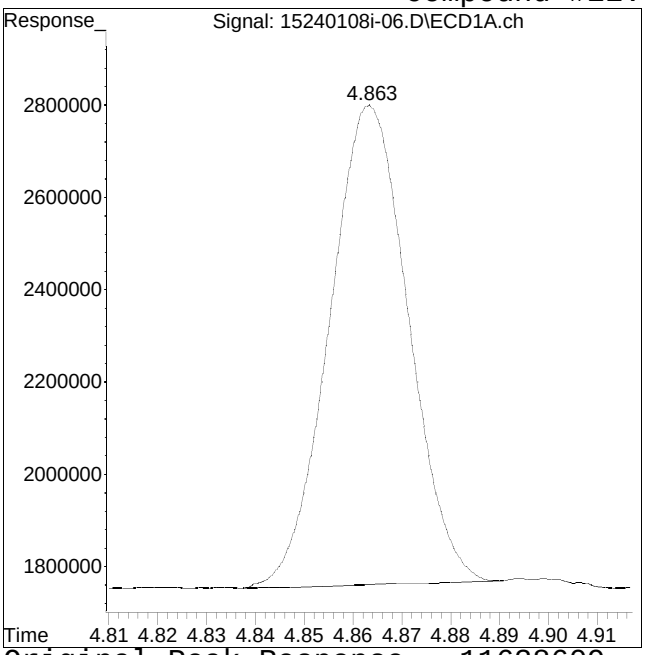


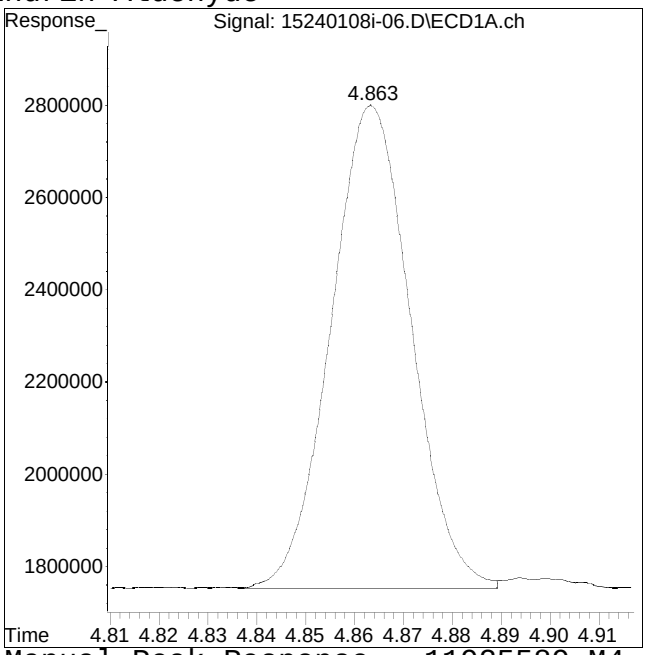
Original Peak Response = 10554286 Manual Peak Response = 10495435 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240108QMethod : P15_pest_2024_01_08_ugL_
Data File : 15240108i-06.D Operator : Pest15:akm
Date Inj'd : 1/8/2024 3:35 pm Instrument : Pest 15
Sample : il4pest,42e,,pp 11403 L0.0Quant Date : 1/12/2024 9:30 am

Compound #22: Endrin Aldehyde



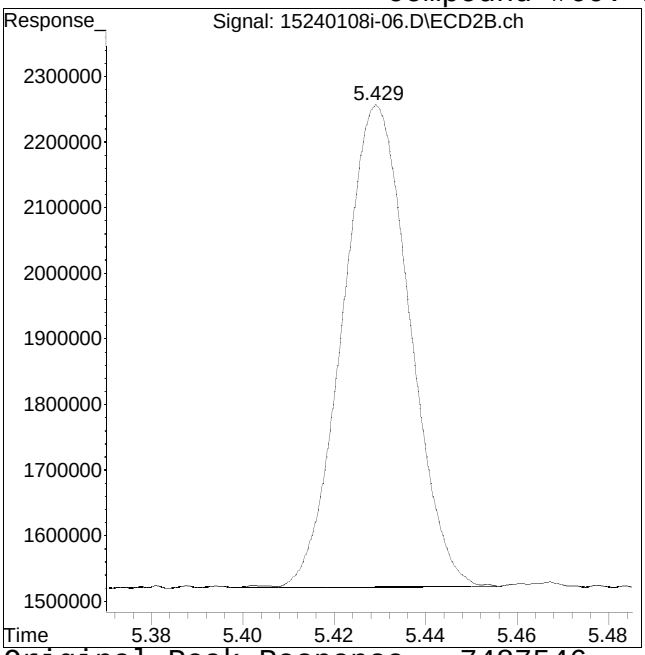


Original Peak Response = 11638609 Manual Peak Response = 11925589 M4
M4 = Poor automated baseline construction.

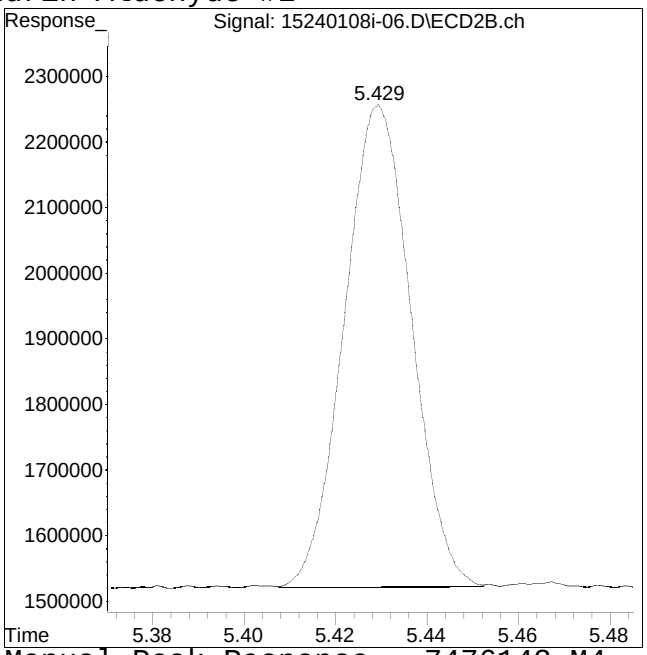
Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240108QMethod : P15_pest_2024_01_08_ugL_
Data File : 15240108i-06.D Operator : Pest15:akm
Date Inj'd : 1/8/2024 3:35 pm Instrument : Pest 15
Sample : il4pest,42e,,pp 11403 L0.0Quant Date : 1/12/2024 9:30 am

Compound #60: Endrin Aldehyde #2



Original Peak Response = 7487546



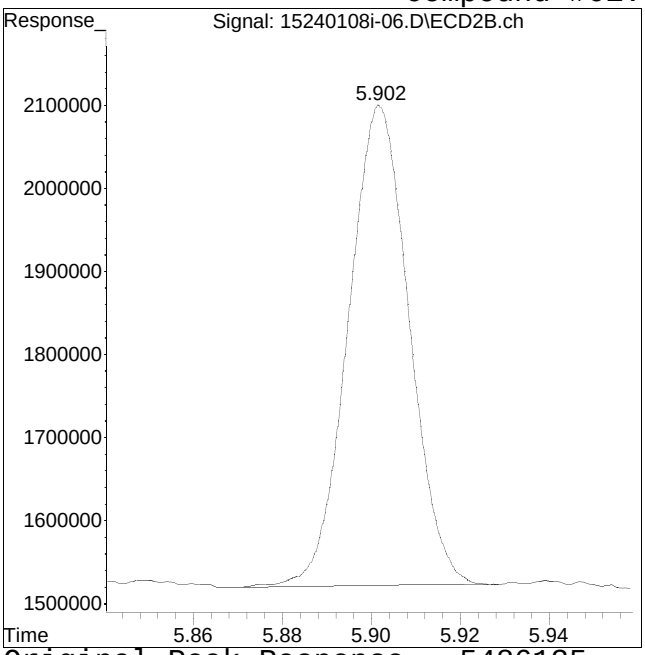
Manual Peak Response = 7476142 M4

M4 = Poor automated baseline construction.

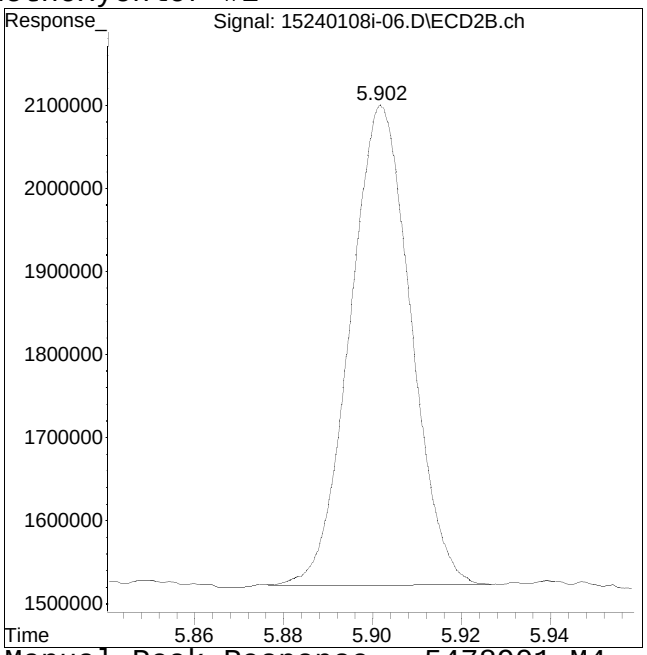
Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240108QMethod : P15_pest_2024_01_08_ugL_
Data File : 15240108i-06.D Operator : Pest15:akm
Date Inj'd : 1/8/2024 3:35 pm Instrument : Pest 15
Sample : il4pest,42e,,pp 11403 L0.0Quant Date : 1/12/2024 9:30 am

Compound #61: Methoxychlor #2



Original Peak Response = 5486135



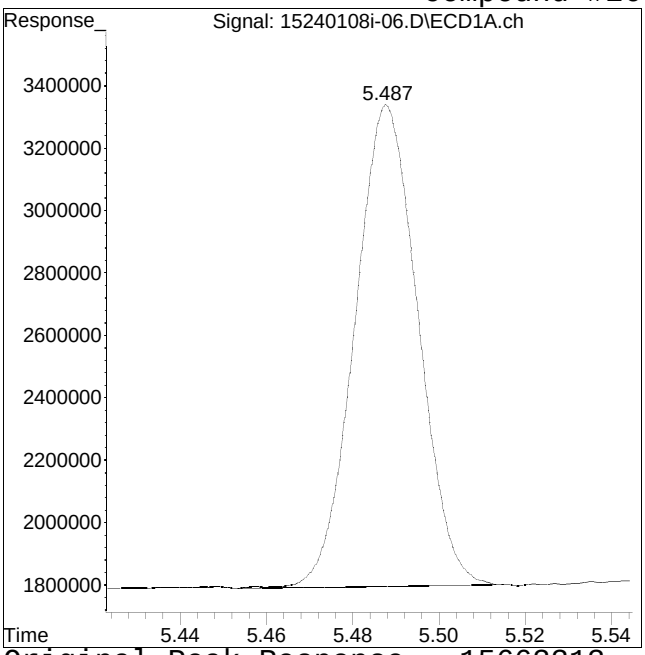
Manual Peak Response = 5478901 M4

M4 = Poor automated baseline construction.

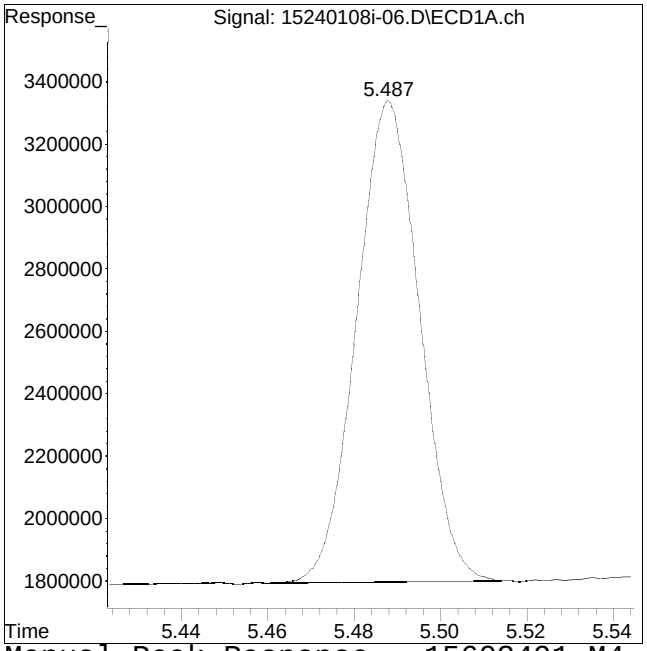
Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240108QMethod : P15_pest_2024_01_08_ugL_
Data File : 15240108i-06.D Operator : Pest15:akm
Date Inj'd : 1/8/2024 3:35 pm Instrument : Pest 15
Sample : il4pest,42e,,pp 11403 L0.0Quant Date : 1/12/2024 9:30 am

Compound #26: Endrin Ketone



Original Peak Response = 15663313



Manual Peak Response = 15603491 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest15\2024\240108ical\
Data File : 15240108i-07.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 8 Jan 2024 3:47 pm
Operator : Pest15:akm
Sample : il5pest,42e,,pp 11402 L0.004
Misc : WG1874875, (Sig #1); ical (Sig #2)
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Jan 12 09:29:20 2024
Quant Method : I:\PEST\Pest15\2024\240108ical\P15_pest_2024_01_08_ugL_ICAL.m
Quant Title : pest
QLast Update : Fri Jan 12 09:25:20 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	1.250	1.331	107.2E6	69878768	25.000	25.000
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.619	1.835	18991884	12635080	4.489M4	4.500
	Spiked Amount 50.000	Range 30 - 150		Recovery =		8.98%#	9.00%#
27) s	Decachlorobi	6.296	6.940	19978360	11579607	4.996	5.363
	Spiked Amount 50.000	Range 30 - 150		Recovery =		9.99%#	10.73%#
	Target Compounds						
3)	Hexachlorobe	1.841	2.163	21395149	14163220	4.750M4	4.849
4)	alpha-BHC	1.943	2.261	23150867	14711047	3.919M4	3.936M4
5)	gamma-BHC (l	2.150	2.551	22163585	14137510	4.082M3	4.172
6)	beta-BHC	2.209	2.617	11702677	7743785	4.747	4.973
7)	delta-BHC	2.339	2.885	21769362	14033294	3.968	4.078M4
8)	Heptachlor	2.501	2.951	23182230	14270607	4.492	4.569M4
9)	Aldrin	2.745	3.272	20410541	13042721	4.158	4.318
10)	Alachlor	2.870	3.156	3908821	3365584	5.180	5.218M4
11)	Chlorpyrifos	2.962	3.511	12404240	8157561	5.420	5.844M4
12)	Heptachlor E	3.293	3.888	20925372	13348394	4.487	4.697M4
13)	gamma-Chlord	3.417	4.109	18667154	12124298	4.355	4.703M4
14)	alpha-Chlord	3.551	4.280	21857143	13509593	4.519	4.703
15)	4,4'-DDE	3.649	4.477	19474284	12520426	4.081M4	4.281M4
16)	Endosulfan I	3.688	4.340	19610440	12535553	4.439	4.710
17)	Dieldrin	3.948	4.633	19700981	12233135	4.206	4.453M4
18)	Endrin	4.203	4.932	20294459	12911927	4.226	4.703
19)	4,4'-DDD	4.314	5.055	16917062	10381958	4.266	4.525M4
20)	Endosulfan I	4.445	5.132	18468988	11427356	4.467M4	4.758M4

Data Path : I:\PEST\Pest15\2024\240108ical\
Data File : 15240108i-07.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 8 Jan 2024 3:47 pm
Operator : Pest15:akm
Sample : il5pest,42e,,pp 11402 L0.004
Misc : WG1874875, (Sig #1); ical (Sig #2)
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Jan 12 09:29:20 2024
Quant Method : I:\PEST\Pest15\2024\240108ical\P15_pest_2024_01_08_ugL_ICAL.m
Quant Title : pest
QLast Update : Fri Jan 12 09:25:20 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
21)	4,4'-DDT	4.609	5.334	20235957	12481800	4.557	4.972M4
22)	Endrin Aldeh	4.865	5.430	15408043	9605157	4.422M4	4.718M4
23)	Methoxychlor	5.101	5.903	11572862	7012593	4.910M4	5.433
24)	Mirex	5.154	6.040	18610826	10841577	5.030M4	5.473
25)	Endosulfan S	5.261	5.660	18122887	10817242	4.609	4.850
26)	Endrin Keton	5.490	6.074	20560925	12141587	4.551	4.738
29) l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

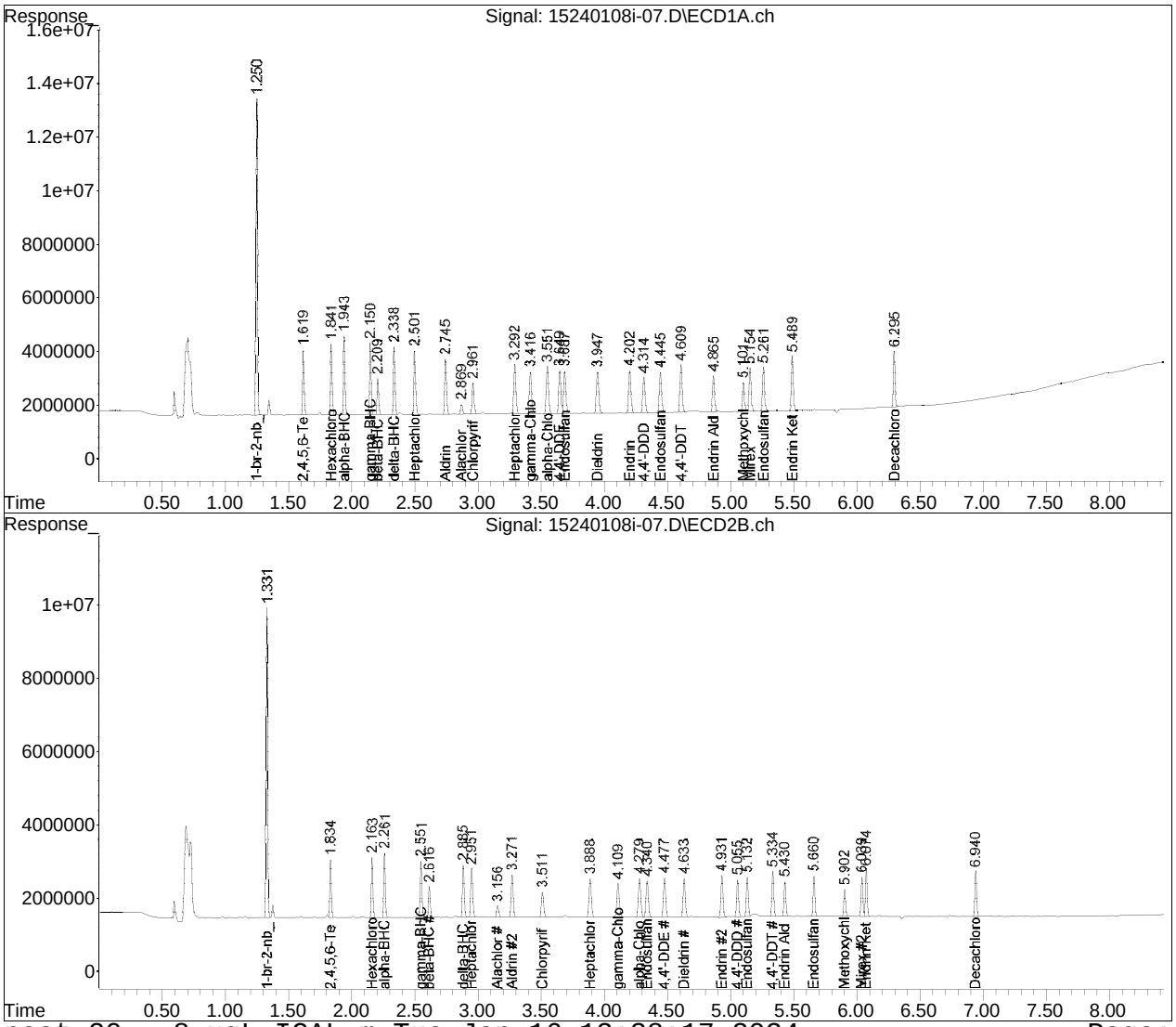
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest15\2024\240108ical\
Data File : 15240108i-07.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 8 Jan 2024 3:47 pm
Operator : Pest15:akm
Sample : il5pest,42e,,pp 11402 L0.004
Misc : WG1874875, (Sig #1); ical (Sig #2)
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Jan 12 09:29:20 2024
Quant Method : I:\PEST\Pest15\2024\240108ical\P15_pest_2024_01_08_ugL_ICAL.m
Quant Title : pest
QLast Update : Fri Jan 12 09:25:20 2024
Response via : Initial Calibration
Integrator: ChemStation

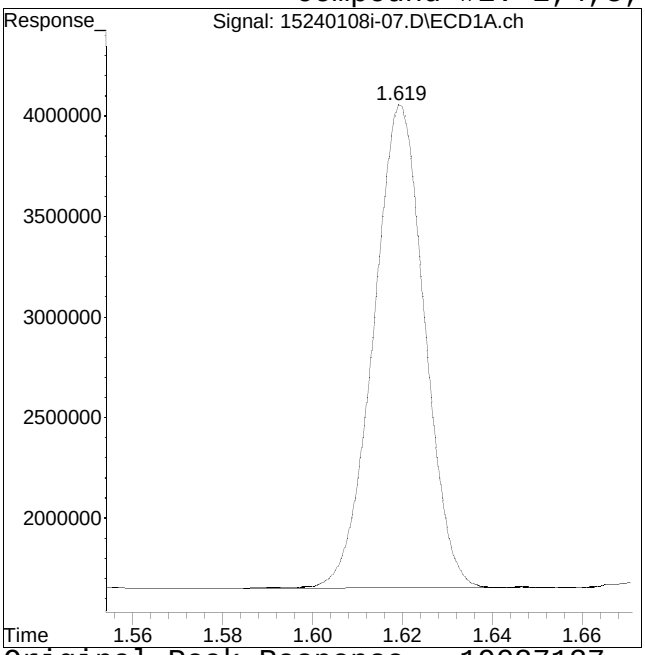
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

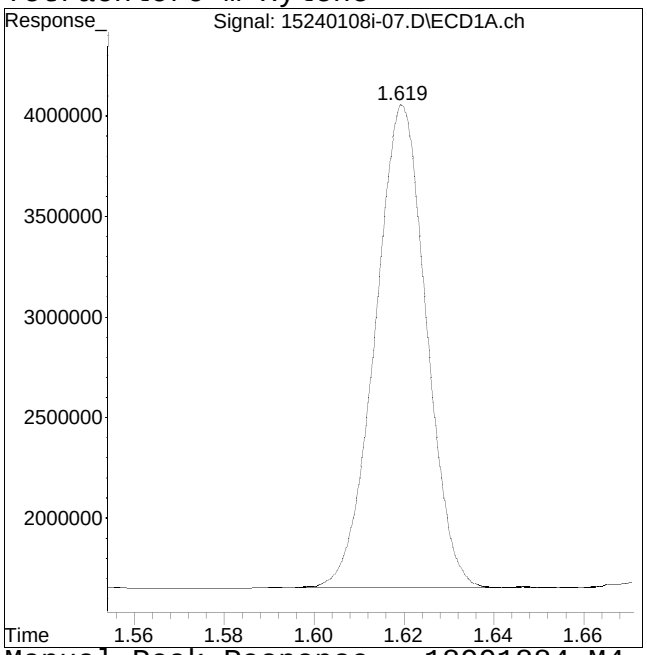


Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240108QMethod : P15_pest_2024_01_08_ugL_
Data File : 15240108i-07.D Operator : Pest15:akm
Date Inj'd : 1/8/2024 3:47 pm Instrument : Pest 15
Sample : il5pest,42e,,pp 11402 L0.0Quant Date : 1/12/2024 9:25 am

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



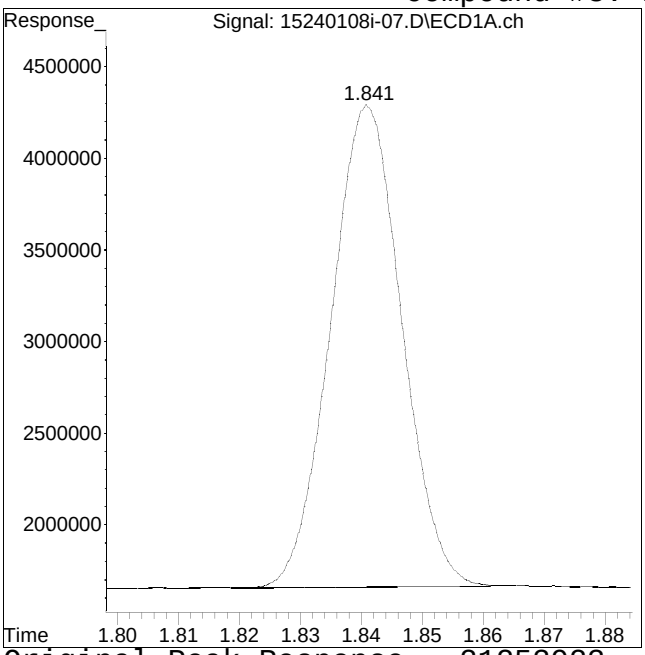


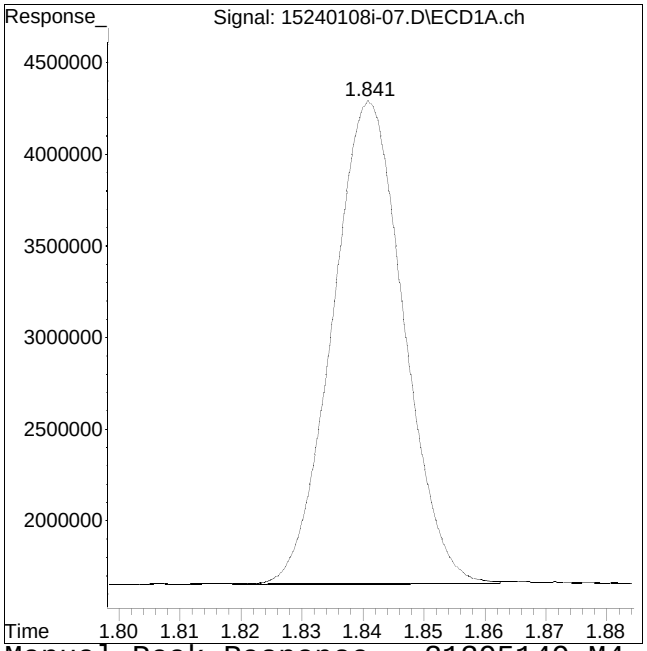
Original Peak Response = 19027137 Manual Peak Response = 18991884 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240108QMethod : P15_pest_2024_01_08_ugL_
Data File : 15240108i-07.D Operator : Pest15:akm
Date Inj'd : 1/8/2024 3:47 pm Instrument : Pest 15
Sample : il5pest,42e,,pp 11402 L0.0Quant Date : 1/12/2024 9:25 am

Compound #3: Hexachlorobenzene



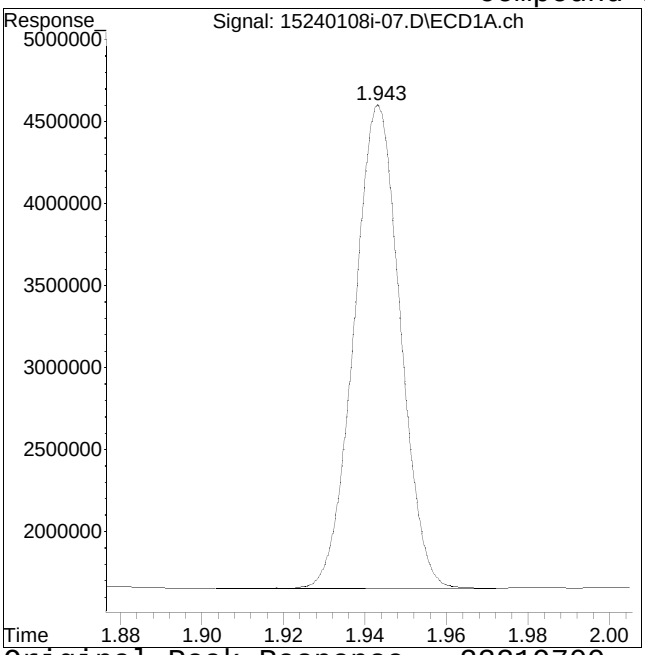


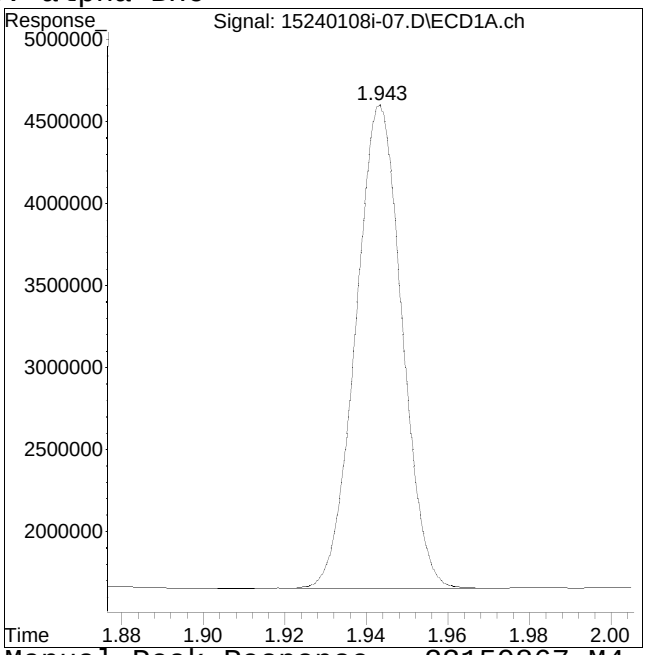
Original Peak Response = 21253923 Manual Peak Response = 21395149 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240108QMethod : P15_pest_2024_01_08_ugL_
Data File : 15240108i-07.D Operator : Pest15:akm
Date Inj'd : 1/8/2024 3:47 pm Instrument : Pest 15
Sample : il5pest,42e,,pp 11402 L0.0Quant Date : 1/12/2024 9:25 am

Compound #4: alpha-BHC



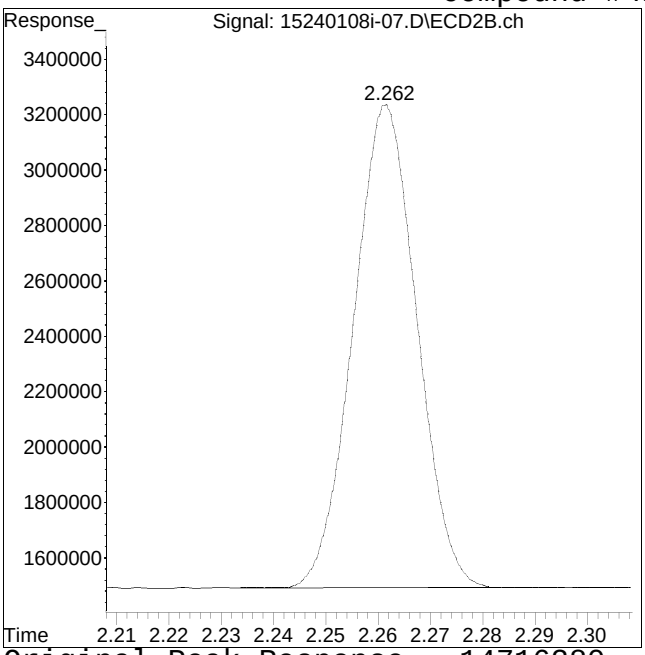


Original Peak Response = 23219700 Manual Peak Response = 23150867 M4
M4 = Poor automated baseline construction.

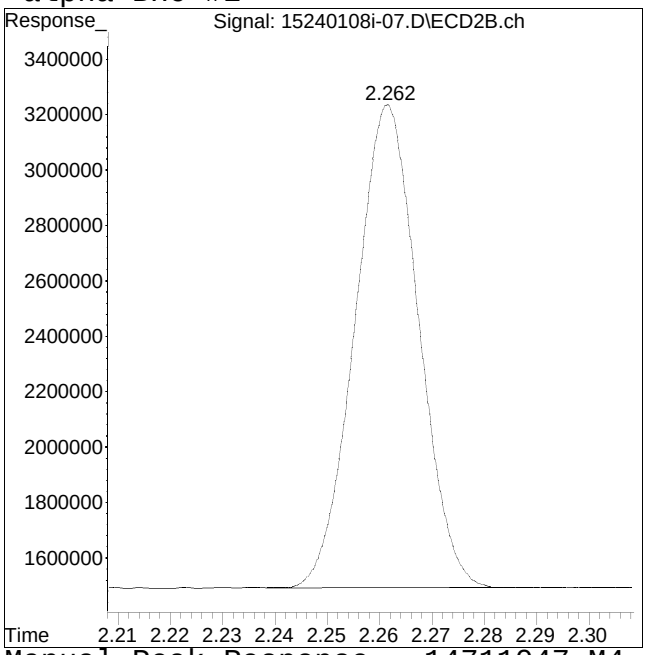
Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240108QMethod : P15_pest_2024_01_08_ugL_
Data File : 15240108i-07.D Operator : Pest15:akm
Date Inj'd : 1/8/2024 3:47 pm Instrument : Pest 15
Sample : il5pest,42e,,pp 11402 L0.0Quant Date : 1/12/2024 9:25 am

Compound #42: alpha-BHC #2



Original Peak Response = 14716280



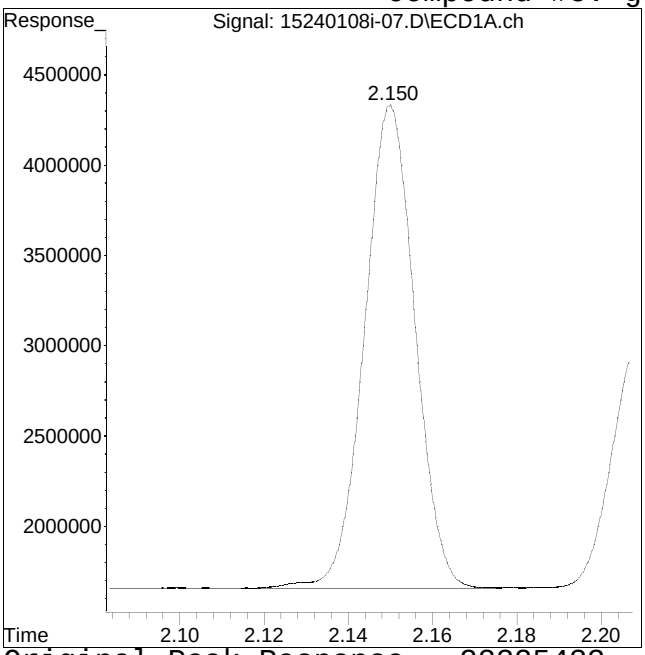
Manual Peak Response = 14711047 M4

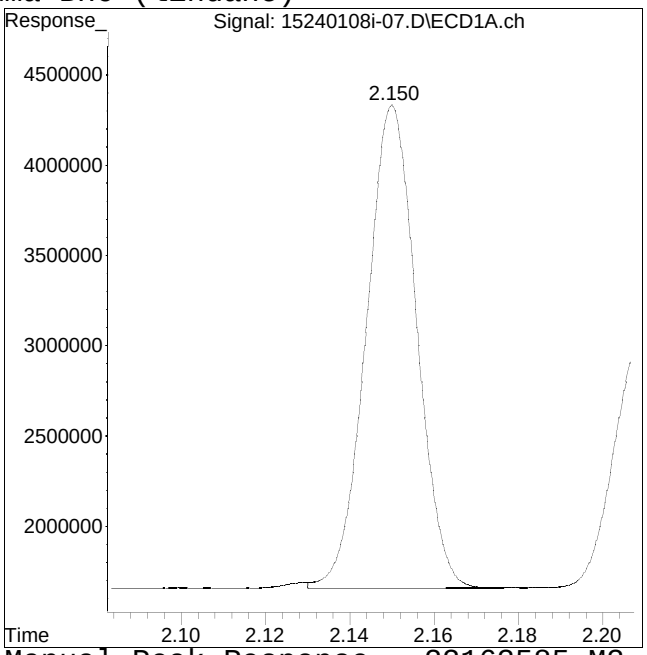
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240108QMethod : P15_pest_2024_01_08_ugL_
Data File : 15240108i-07.D Operator : Pest15:akm
Date Inj'd : 1/8/2024 3:47 pm Instrument : Pest 15
Sample : il5pest,42e,,pp 11402 L0.0Quant Date : 1/12/2024 9:25 am

Compound #5: gamma-BHC (lindane)



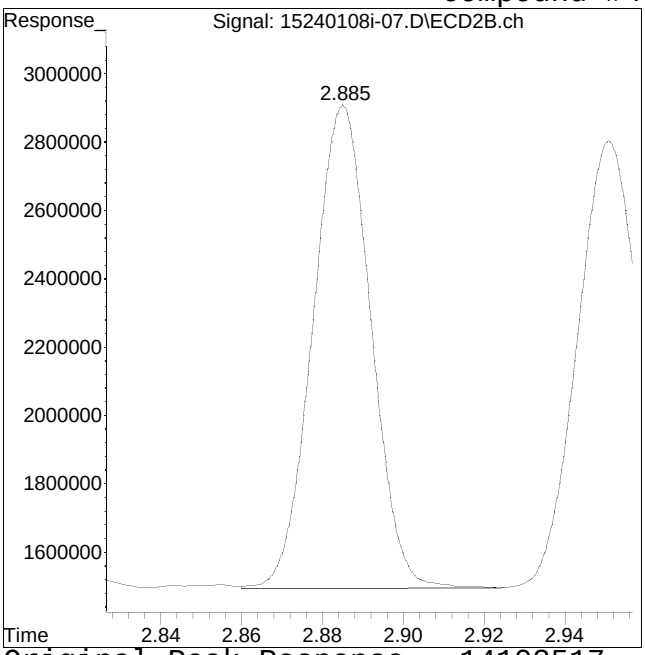


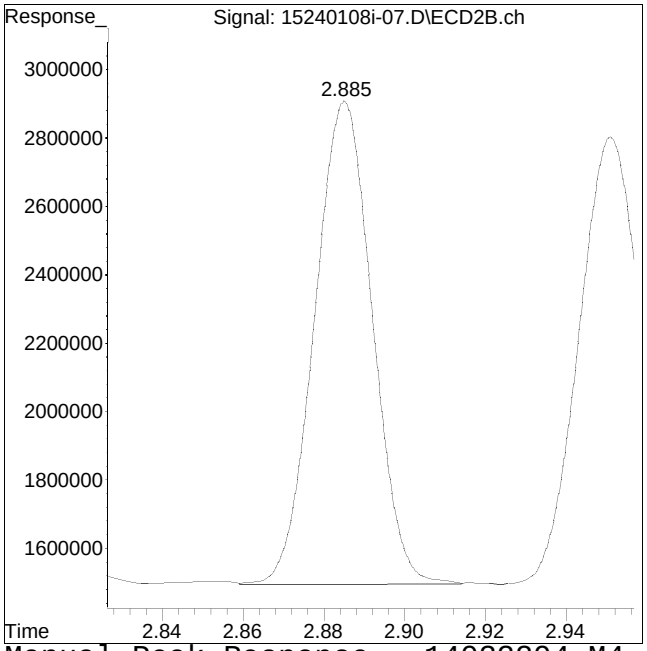
Original Peak Response = 22325433 Manual Peak Response = 22163585 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240108QMethod : P15_pest_2024_01_08_ugL_
Data File : 15240108i-07.D Operator : Pest15:akm
Date Inj'd : 1/8/2024 3:47 pm Instrument : Pest 15
Sample : il5pest,42e,,pp 11402 L0.0Quant Date : 1/12/2024 9:25 am

Compound #45: delta-BHC #2



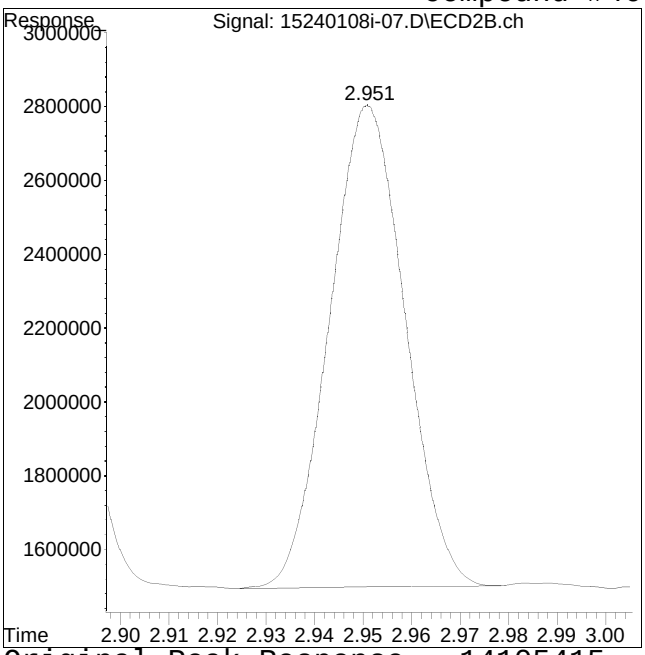


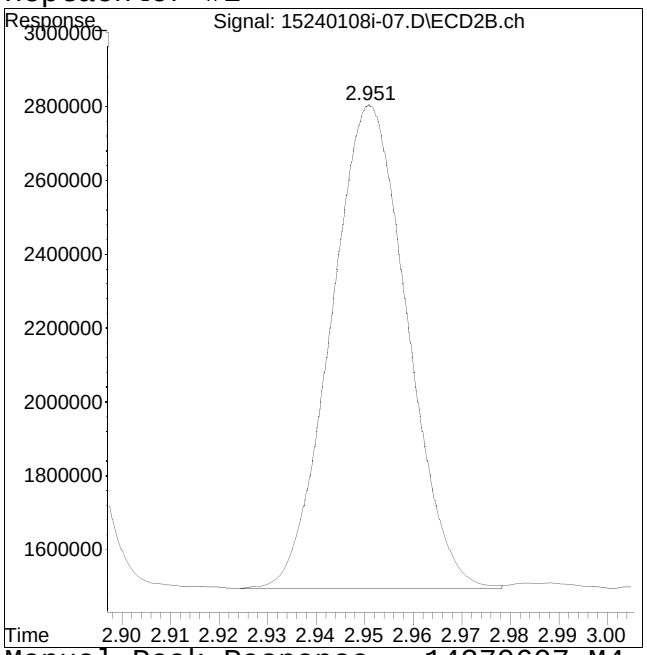
Original Peak Response = 14102517 Manual Peak Response = 14033294 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240108QMethod : P15_pest_2024_01_08_ugL_
Data File : 15240108i-07.D Operator : Pest15:akm
Date Inj'd : 1/8/2024 3:47 pm Instrument : Pest 15
Sample : il5pest,42e,,pp 11402 L0.0Quant Date : 1/12/2024 9:25 am

Compound #46: Heptachlor #2



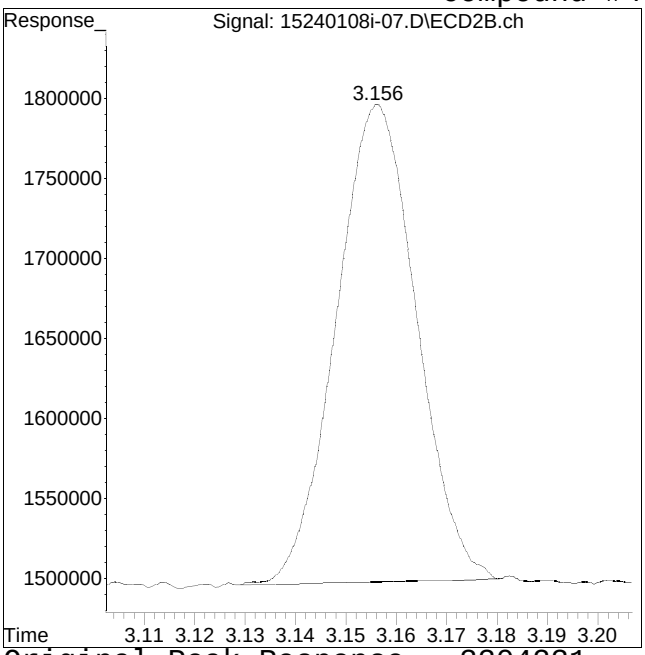


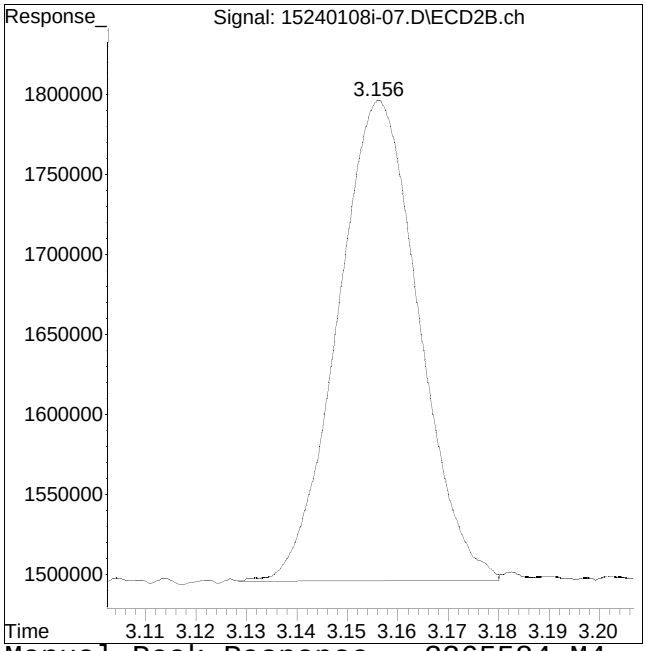
Original Peak Response = 14105415 Manual Peak Response = 14270607 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240108QMethod : P15_pest_2024_01_08_ugL_
Data File : 15240108i-07.D Operator : Pest15:akm
Date Inj'd : 1/8/2024 3:47 pm Instrument : Pest 15
Sample : il5pest,42e,,pp 11402 L0.0Quant Date : 1/12/2024 9:25 am

Compound #48: Alachlor #2



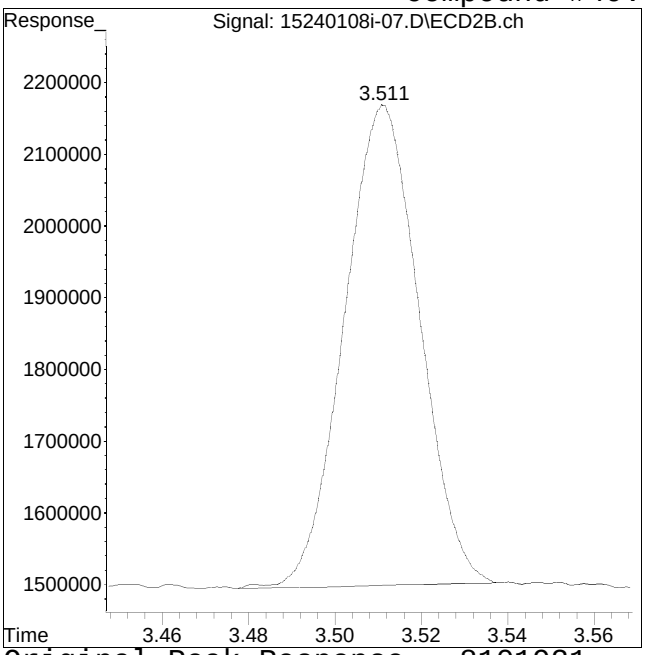


Original Peak Response = 3304231 Manual Peak Response = 3365584 M4
M4 = Poor automated baseline construction.

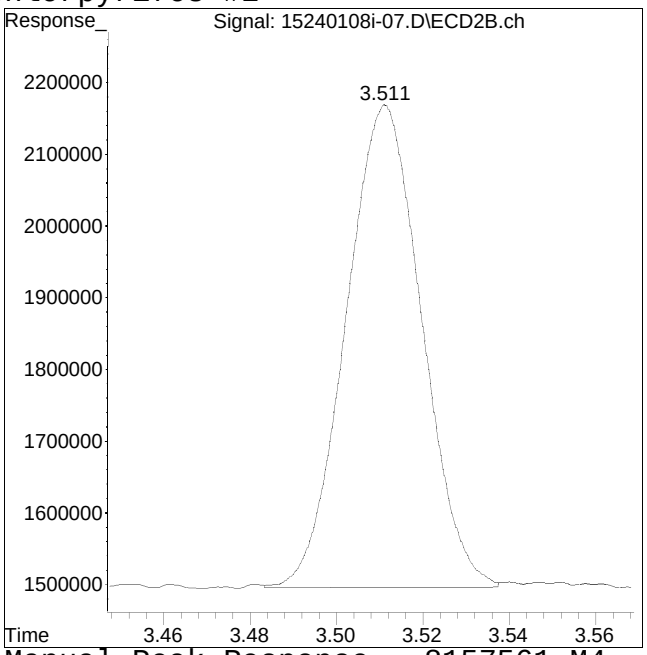
Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240108QMethod : P15_pest_2024_01_08_ugL_
Data File : 15240108i-07.D Operator : Pest15:akm
Date Inj'd : 1/8/2024 3:47 pm Instrument : Pest 15
Sample : il5pest,42e,,pp 11402 L0.0Quant Date : 1/12/2024 9:25 am

Compound #49: Chlorpyrifos #2



Original Peak Response = 8101921



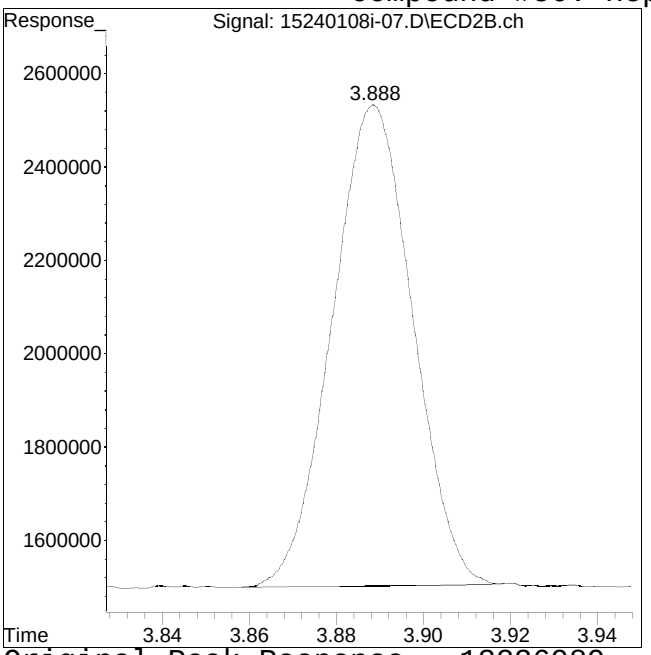
Manual Peak Response = 8157561 M4

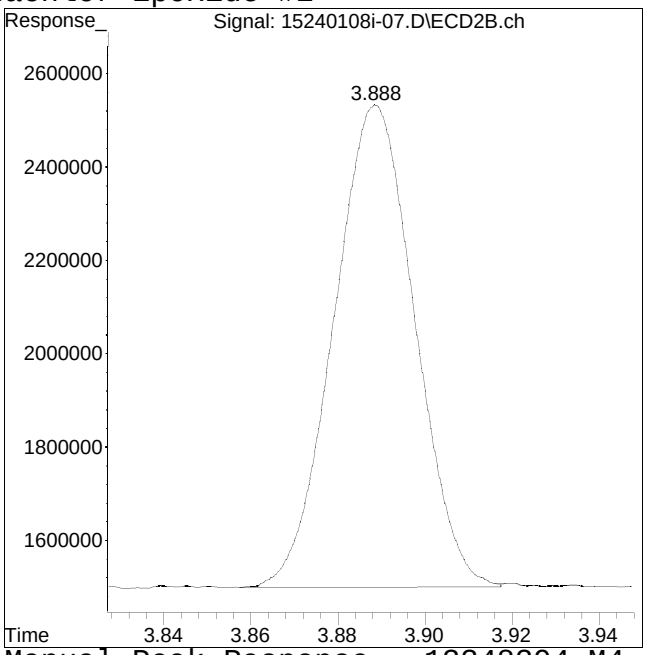
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240108QMethod : P15_pest_2024_01_08_ugL_
Data File : 15240108i-07.D Operator : Pest15:akm
Date Inj'd : 1/8/2024 3:47 pm Instrument : Pest 15
Sample : il5pest,42e,,pp 11402 L0.0Quant Date : 1/12/2024 9:25 am

Compound #50: Heptachlor Epoxide #2



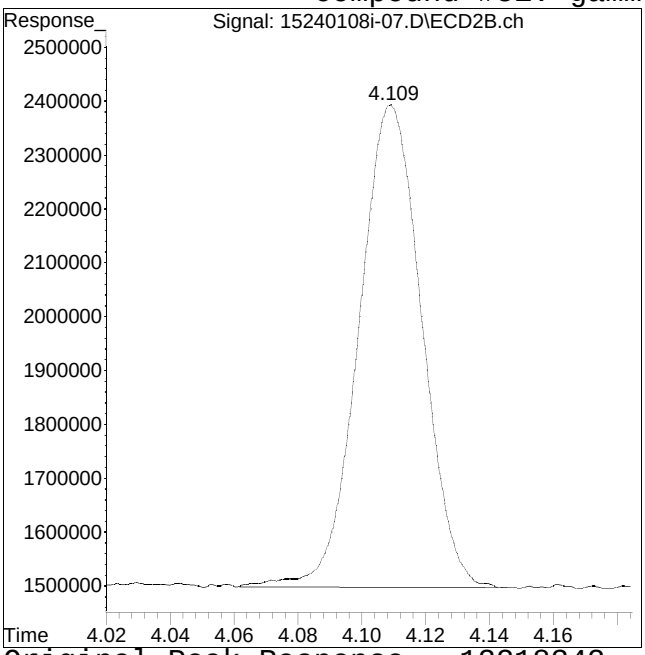


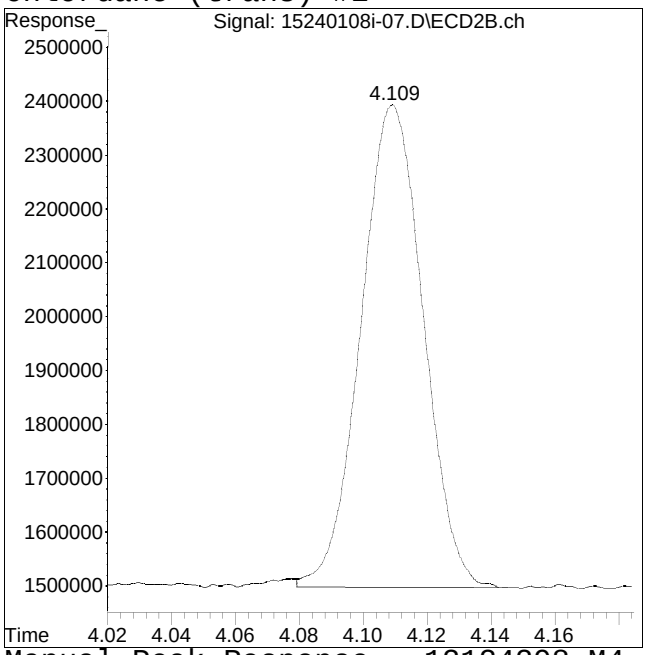
Original Peak Response = 13236989 Manual Peak Response = 13348394 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240108QMethod : P15_pest_2024_01_08_ugL_
Data File : 15240108i-07.D Operator : Pest15:akm
Date Inj'd : 1/8/2024 3:47 pm Instrument : Pest 15
Sample : il5pest,42e,,pp 11402 L0.0Quant Date : 1/12/2024 9:25 am

Compound #51: gamma-Chlordane (trans) #2



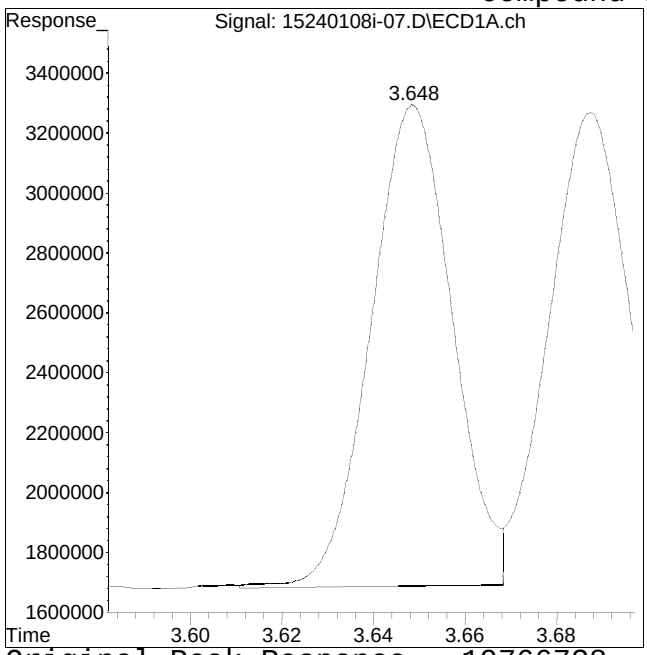


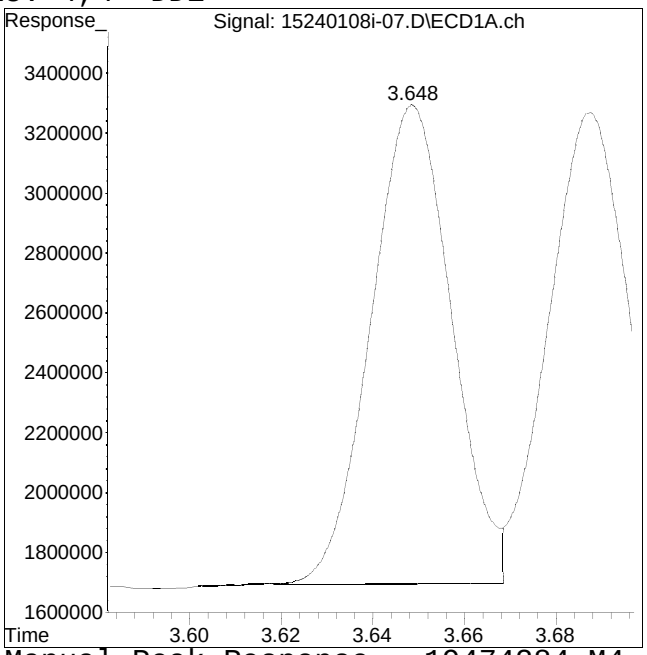
Original Peak Response = 12218342 Manual Peak Response = 12124298 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240108QMethod : P15_pest_2024_01_08_ugL_
Data File : 15240108i-07.D Operator : Pest15:akm
Date Inj'd : 1/8/2024 3:47 pm Instrument : Pest 15
Sample : il5pest,42e,,pp 11402 L0.0Quant Date : 1/12/2024 9:25 am

Compound #15: 4,4'-DDE



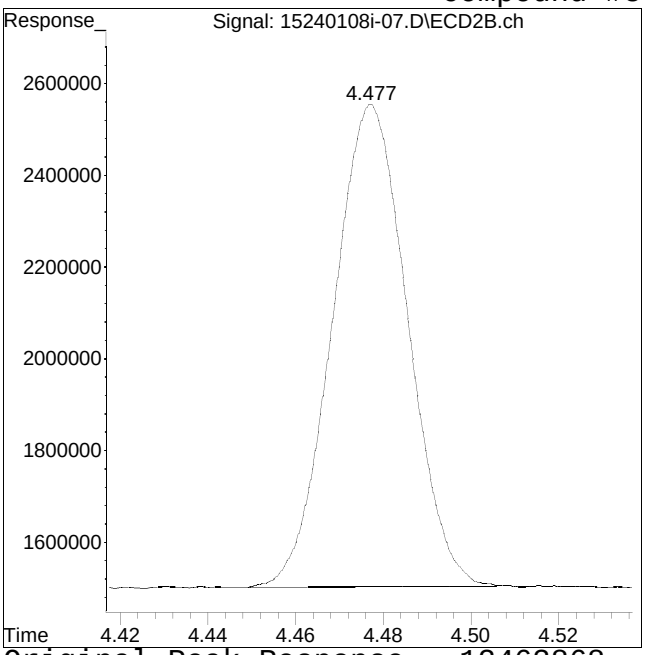


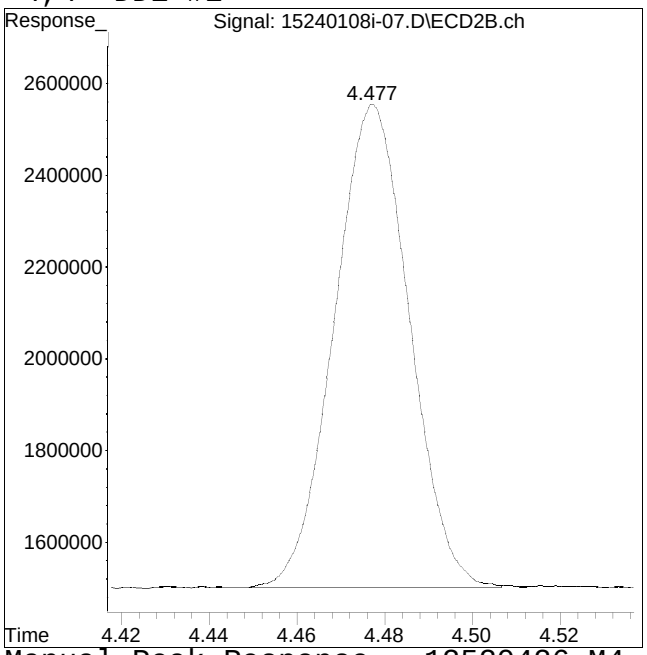
Original Peak Response = 19766738 Manual Peak Response = 19474284 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240108QMethod : P15_pest_2024_01_08_ugL_
Data File : 15240108i-07.D Operator : Pest15:akm
Date Inj'd : 1/8/2024 3:47 pm Instrument : Pest 15
Sample : il5pest,42e,,pp 11402 L0.0Quant Date : 1/12/2024 9:25 am

Compound #53: 4,4'-DDE #2



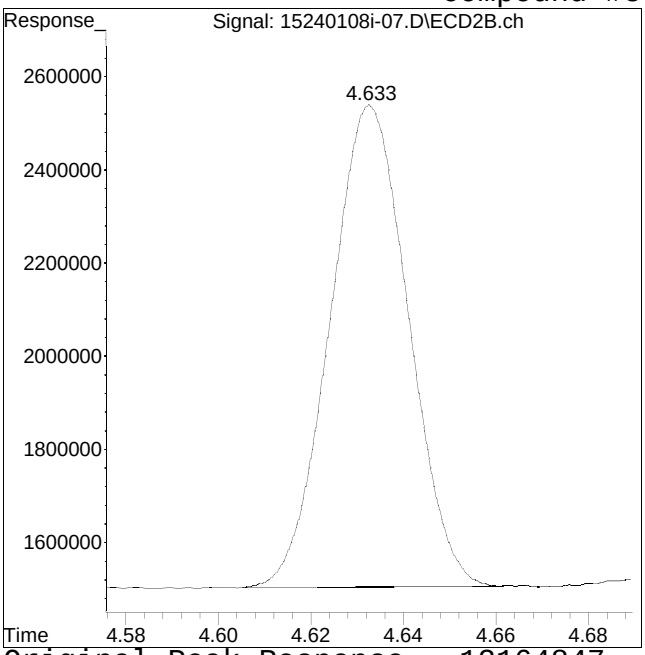


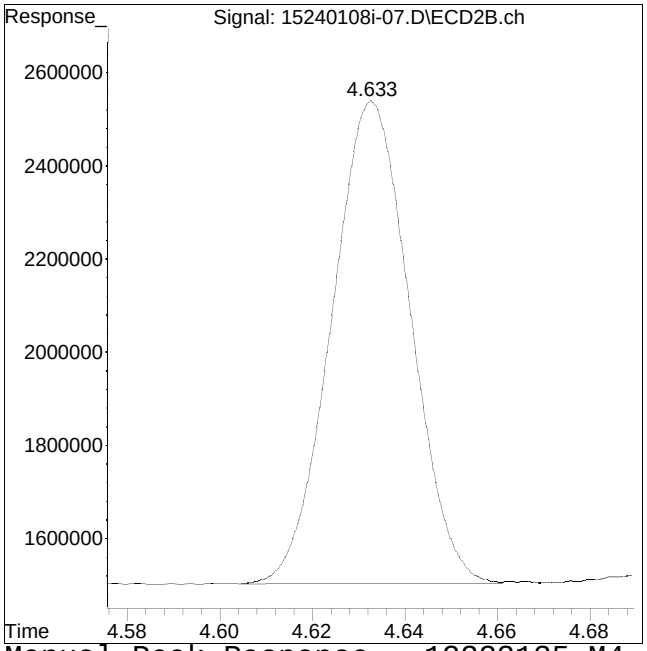
Original Peak Response = 12463868 Manual Peak Response = 12520426 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240108QMethod : P15_pest_2024_01_08_ugL_
Data File : 15240108i-07.D Operator : Pest15:akm
Date Inj'd : 1/8/2024 3:47 pm Instrument : Pest 15
Sample : il5pest,42e,,pp 11402 L0.0Quant Date : 1/12/2024 9:25 am

Compound #55: Dieldrin #2



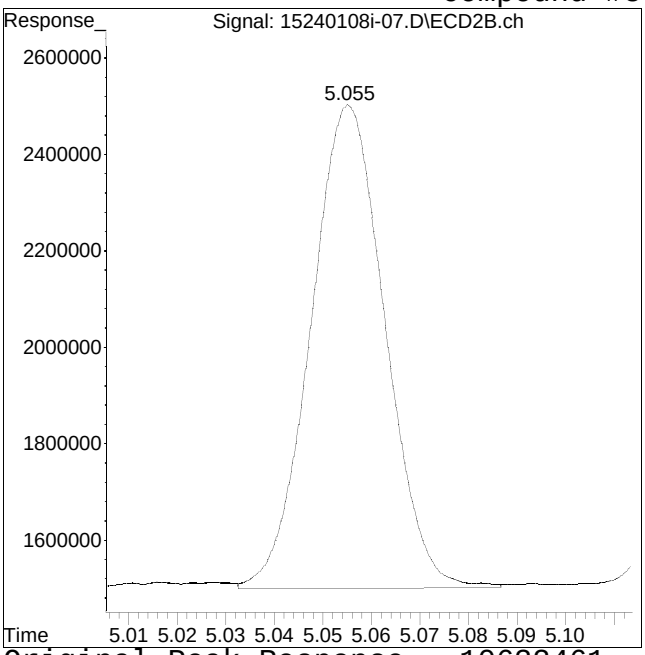


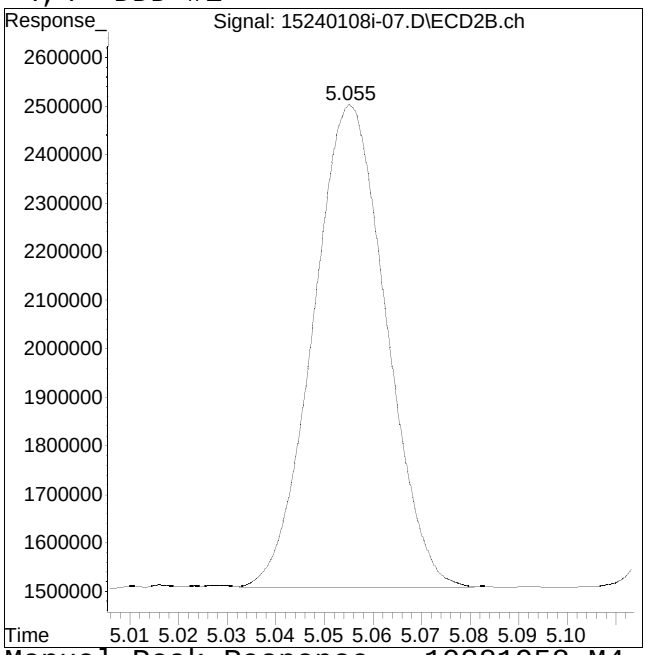
Original Peak Response = 12164847 Manual Peak Response = 12233135 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240108QMethod : P15_pest_2024_01_08_ugL_
Data File : 15240108i-07.D Operator : Pest15:akm
Date Inj'd : 1/8/2024 3:47 pm Instrument : Pest 15
Sample : il5pest,42e,,pp 11402 L0.0Quant Date : 1/12/2024 9:25 am

Compound #57: 4,4'-DDD #2



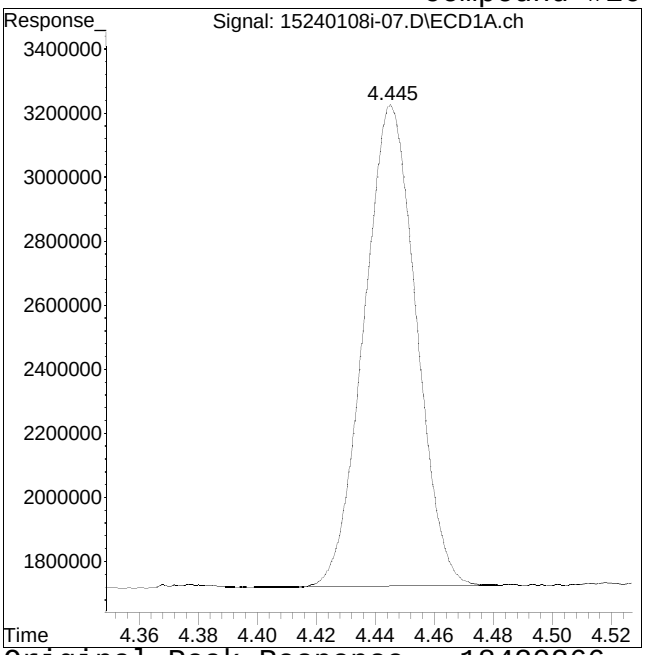


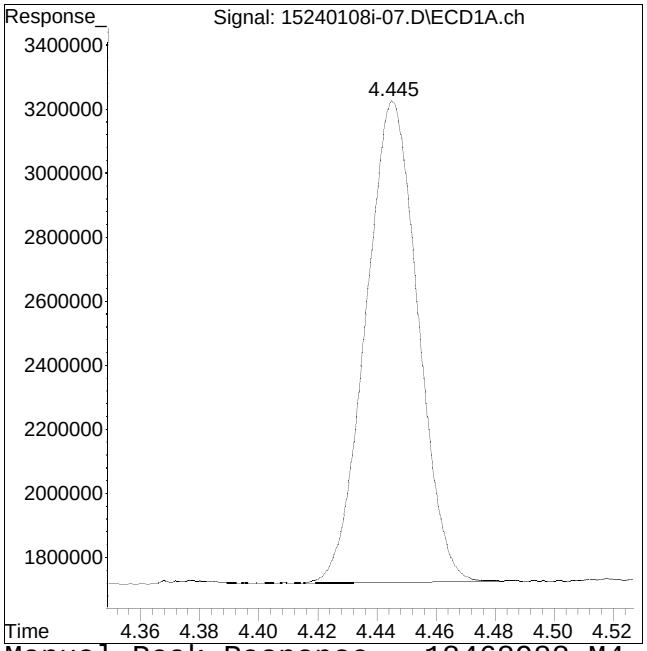
Original Peak Response = 10632461 Manual Peak Response = 10381958 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240108QMethod : P15_pest_2024_01_08_ugL_
Data File : 15240108i-07.D Operator : Pest15:akm
Date Inj'd : 1/8/2024 3:47 pm Instrument : Pest 15
Sample : il5pest,42e,,pp 11402 L0.0Quant Date : 1/12/2024 9:25 am

Compound #20: Endosulfan II



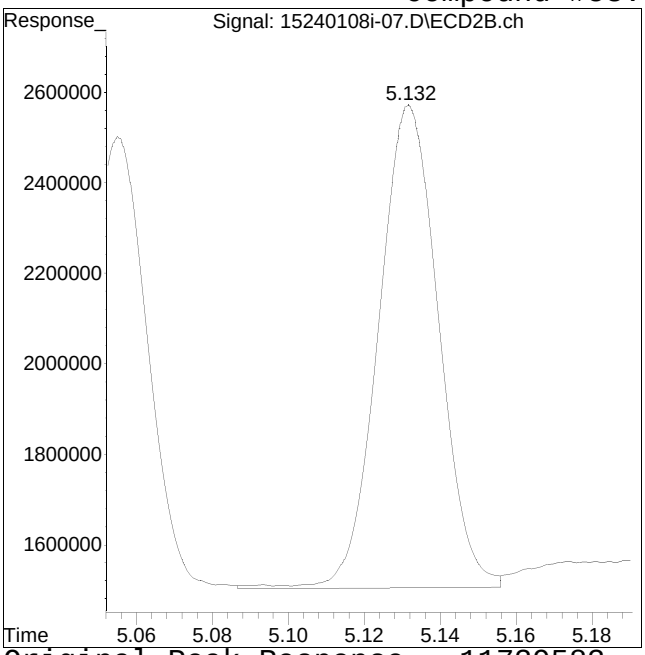


Original Peak Response = 18420266 Manual Peak Response = 18468988 M4
M4 = Poor automated baseline construction.

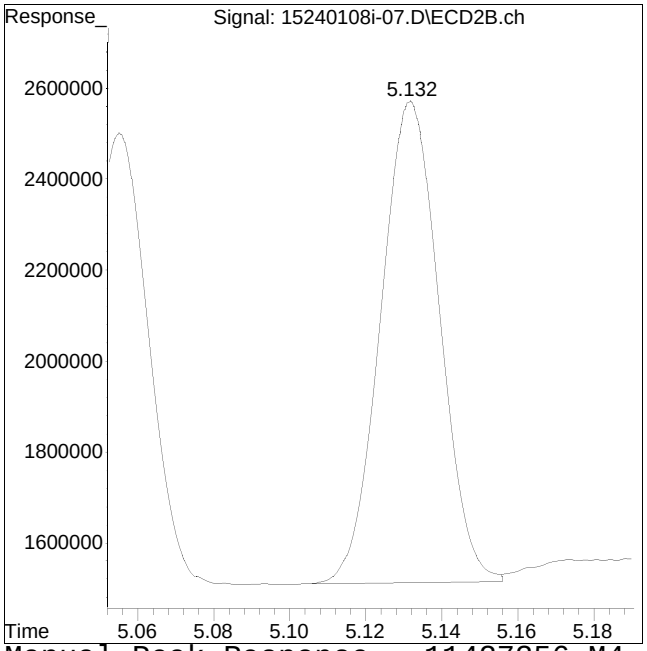
Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240108QMethod : P15_pest_2024_01_08_ugL_
Data File : 15240108i-07.D Operator : Pest15:akm
Date Inj'd : 1/8/2024 3:47 pm Instrument : Pest 15
Sample : il5pest,42e,,pp 11402 L0.0Quant Date : 1/12/2024 9:25 am

Compound #58: Endosulfan II #2



Original Peak Response = 11739583



Manual Peak Response = 11427356 M4

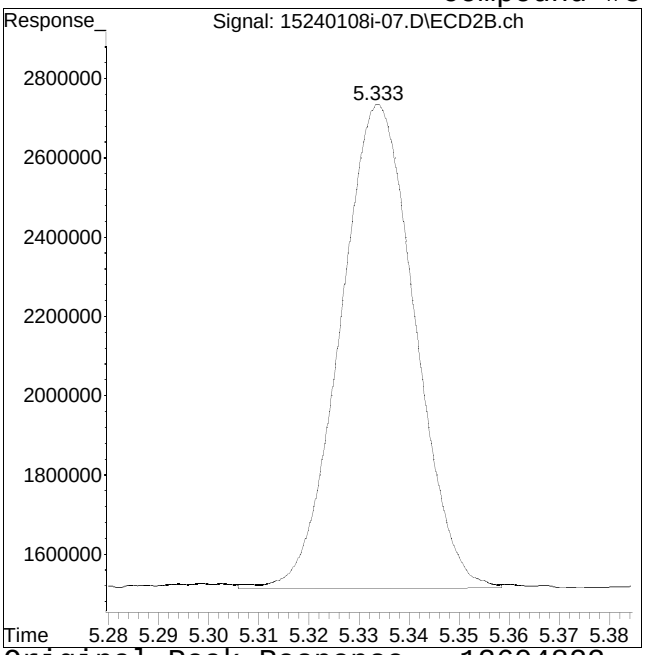
M4 = Poor automated baseline construction.

Manual Integration Report

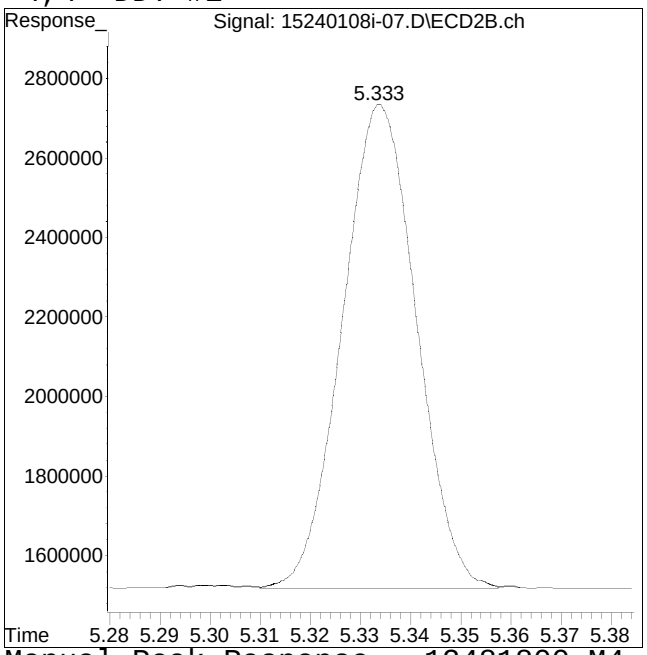
Data Path : I:\PEST\Pest15\2024\240108Q
Data File : 15240108i-07.D
Date Inj'd : 1/8/2024 3:47 pm
Sample : il5pest,42e,,pp 11402 L0.0

Method : P15_pest_2024_01_08_ugL_
Operator : Pest15:akm
Instrument : Pest 15
Quant Date : 1/12/2024 9:25 am

Compound #59: 4,4'-DDT #2



Original Peak Response = 12604822



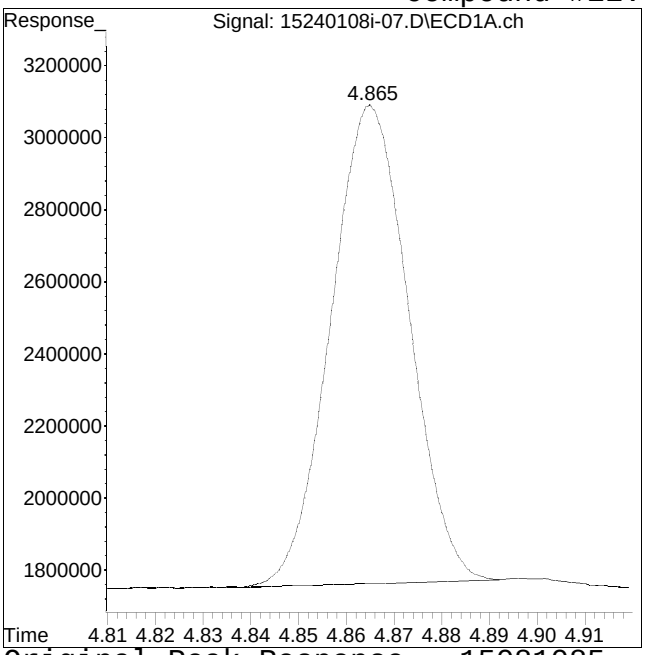
Manual Peak Response = 12481800 M4

M4 = Poor automated baseline construction.

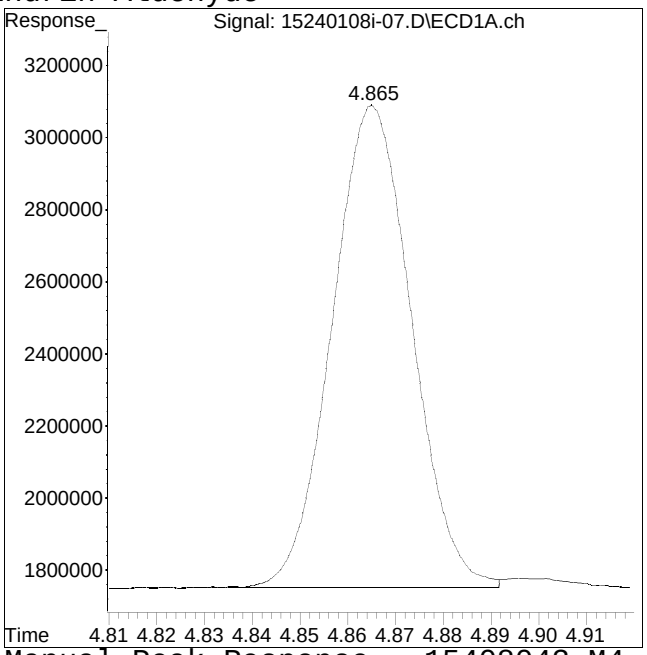
Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240108QMethod : P15_pest_2024_01_08_ugL_
Data File : 15240108i-07.D Operator : Pest15:akm
Date Inj'd : 1/8/2024 3:47 pm Instrument : Pest 15
Sample : il5pest,42e,,pp 11402 L0.0Quant Date : 1/12/2024 9:25 am

Compound #22: Endrin Aldehyde



Original Peak Response = 15081085



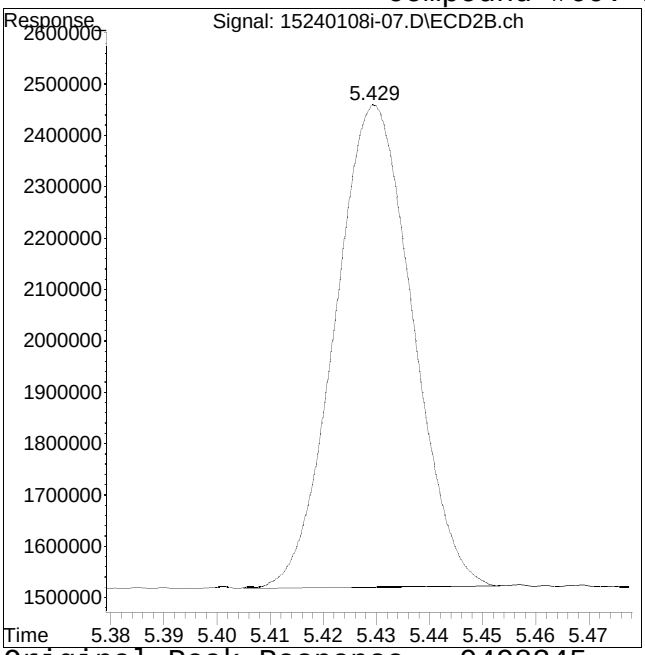
Manual Peak Response = 15408043 M4

M4 = Poor automated baseline construction.

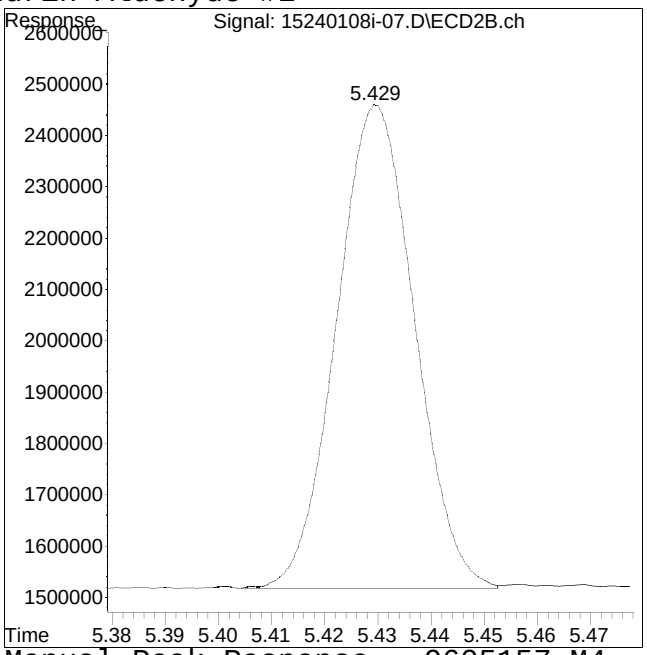
Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240108QMethod : P15_pest_2024_01_08_ugL_
Data File : 15240108i-07.D Operator : Pest15:akm
Date Inj'd : 1/8/2024 3:47 pm Instrument : Pest 15
Sample : il5pest,42e,,pp 11402 L0.0Quant Date : 1/12/2024 9:25 am

Compound #60: Endrin Aldehyde #2



Original Peak Response = 9498345



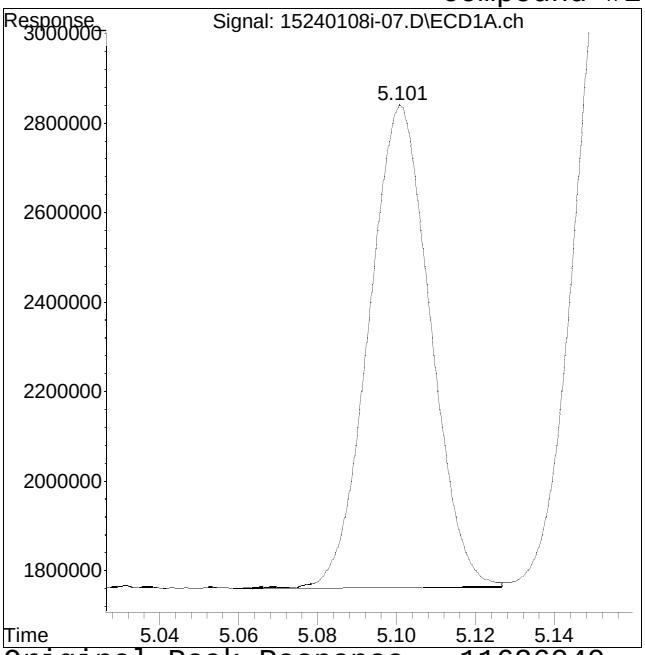
Manual Peak Response = 9605157 M4

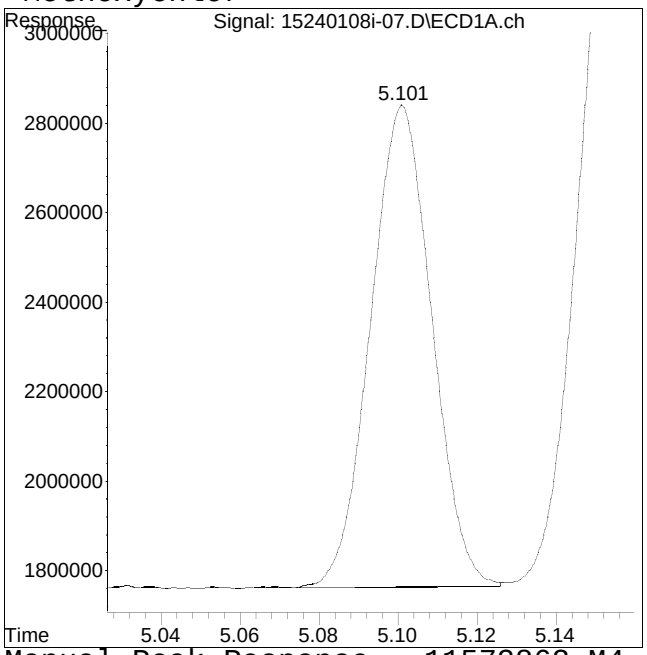
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240108QMethod : P15_pest_2024_01_08_ugL_
Data File : 15240108i-07.D Operator : Pest15:akm
Date Inj'd : 1/8/2024 3:47 pm Instrument : Pest 15
Sample : il5pest,42e,,pp 11402 L0.0Quant Date : 1/12/2024 9:25 am

Compound #23: Methoxychlor



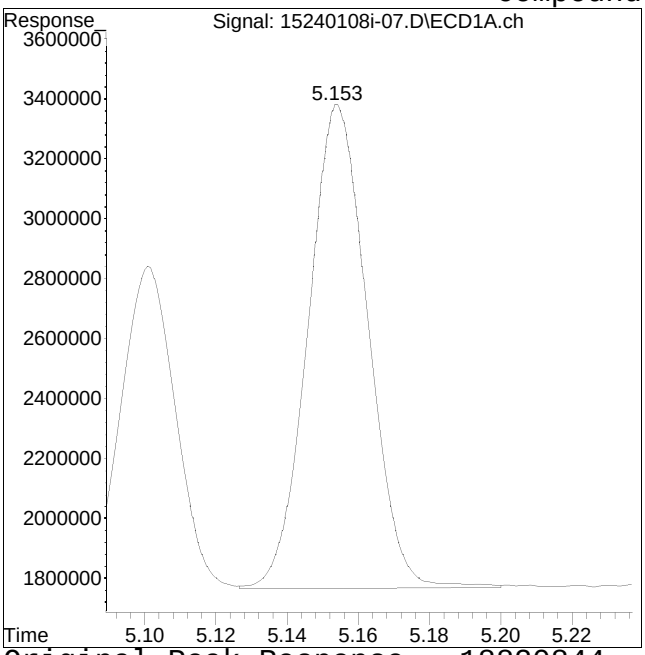


Original Peak Response = 11626940 Manual Peak Response = 11572862 M4
M4 = Poor automated baseline construction.

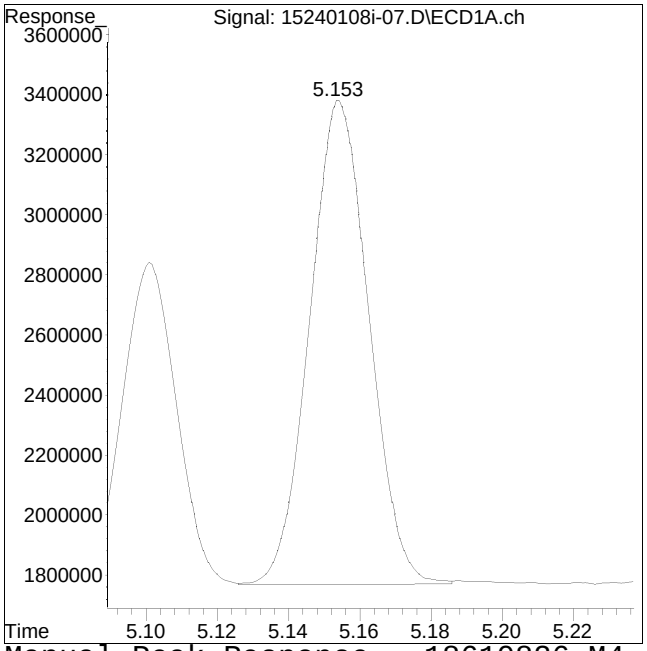
Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240108QMethod : P15_pest_2024_01_08_ugL_
Data File : 15240108i-07.D Operator : Pest15:akm
Date Inj'd : 1/8/2024 3:47 pm Instrument : Pest 15
Sample : il5pest,42e,,pp 11402 L0.0Quant Date : 1/12/2024 9:25 am

Compound #24: Mirex



Original Peak Response = 18820844



Manual Peak Response = 18610826 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest15\2024\240108ical\
Data File : 15240108i-08.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 8 Jan 2024 3:59 pm
Operator : Pest15:akm
Sample : il7pest,42e,,pp 11401 L0.01
Misc : WG1874875, (Sig #1); ical (Sig #2)
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Jan 15 13:04:20 2024
Quant Method : I:\PEST\Pest15\2024\240108ical\P15_pest_2024_01_08_ugL_ICAL.m
Quant Title : pest
QLast Update : Fri Jan 12 09:22:41 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	1.249	1.331	106.7E6	68650000	25.000	25.000
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.619	1.835	45280105	28971095	10.960M4	10.636
	Spiked Amount 50.000	Range 30 - 150		Recovery =		21.92%#	21.27%#
27) s	Decachlorobi	6.297	6.941	45557823	24797839	11.878	12.208
	Spiked Amount 50.000	Range 30 - 150		Recovery =		23.76%#	24.42%#
	Target Compounds						
3)	Hexachlorobe	1.840	2.163	49422268	31443281	11.315M4	11.226
4)	alpha-BHC	1.943	2.262	57645573	35368275	9.758	9.545
5)	gamma-BHC (l	2.150	2.551	54060563	33093900	10.021M3	9.925
6)	beta-BHC	2.209	2.616	26694065	17019928	11.126M4	11.448M4
7)	delta-BHC	2.339	2.885	53529714	32796359	9.755	9.630
8)	Heptachlor	2.502	2.951	54301084	32325722	10.727	10.678
9)	Aldrin	2.746	3.272	49620652	29834487	10.199	10.069
10)	Alachlor	2.870	3.157	8936446	7542835	12.493	12.499
11)	Chlorpyrifos	2.962	3.511	27575707	17194749	12.782	13.388
12)	Heptachlor E	3.293	3.889	49498088	29949504	10.845	10.925
13)	gamma-Chlord	3.417	4.110	43965075	26834970	10.385	10.755
14)	alpha-Chlord	3.551	4.280	50645436	30034289	10.659M4	10.817
15)	4,4'-DDE	3.649	4.478	47708292	28737398	10.059M4	10.001
16)	Endosulfan I	3.688	4.340	46371500	27930733	10.694	10.869
17)	Dieldrin	3.948	4.633	47087314	27728603	10.125	10.346
18)	Endrin	4.203	4.932	48909809	28562365	10.294	10.749
19)	4,4'-DDD	4.315	5.056	39944077	23320811	10.153	10.437
20)	Endosulfan I	4.446	5.132	43599996	25533346	10.755	11.048
21)	4,4'-DDT	4.609	5.335	46934182	26751120	10.788	11.080
22)	Endrin Aldeh	4.866	5.431	36333719	21272629	10.603	10.808

Data Path : I:\PEST\Pest15\2024\240108ical\
Data File : 15240108i-08.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 8 Jan 2024 3:59 pm
Operator : Pest15:akm
Sample : il7pest,42e,,pp 11401 L0.01
Misc : WG1874875, (Sig #1); ical (Sig #2)
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Jan 15 13:04:20 2024
Quant Method : I:\PEST\Pest15\2024\240108ical\P15_pest_2024_01_08_ugL_ICAL.m
Quant Title : pest
QLast Update : Fri Jan 12 09:22:41 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
23)	Methoxychlor	5.102	5.903	26728725	14974091	11.806	12.369
24)	Mirex	5.155	6.040	42094148	23033645	11.857	12.405
25)	Endosulfan S	5.262	5.661	42089041	23945423	10.964	11.188
26)	Endrin Keton	5.490	6.074	48586017	27365379	11.028	11.112
29) l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

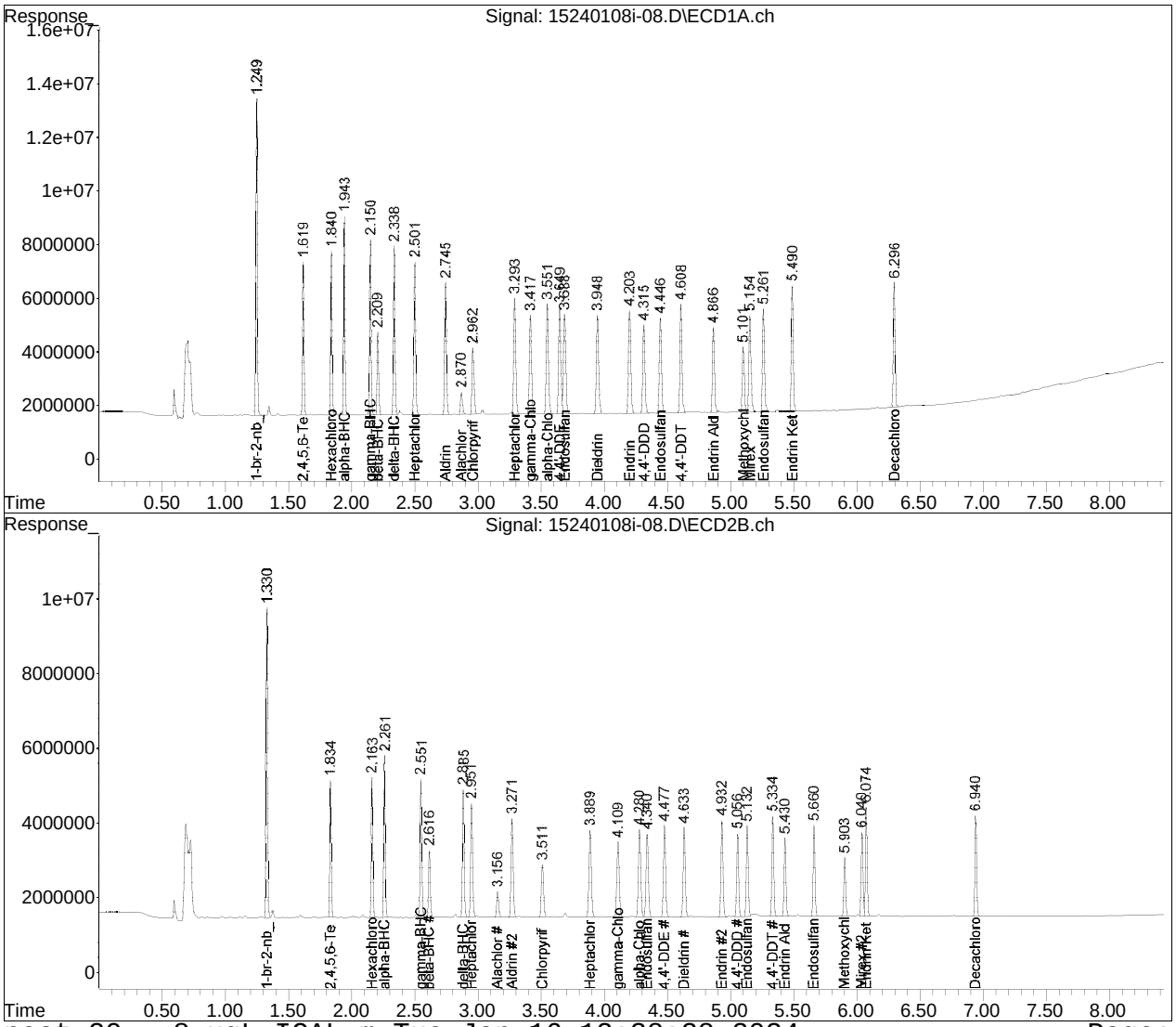
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest15\2024\240108ical\
Data File : 15240108i-08.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 8 Jan 2024 3:59 pm
Operator : Pest15:akm
Sample : il7pest,42e,,pp 11401 L0.01
Misc : WG1874875, (Sig #1); ical (Sig #2)
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Jan 15 13:04:20 2024
Quant Method : I:\PEST\Pest15\2024\240108ical\P15_pest_2024_01_08_ugL_ICAL.m
Quant Title : pest
QLast Update : Fri Jan 12 09:22:41 2024
Response via : Initial Calibration
Integrator: ChemStation

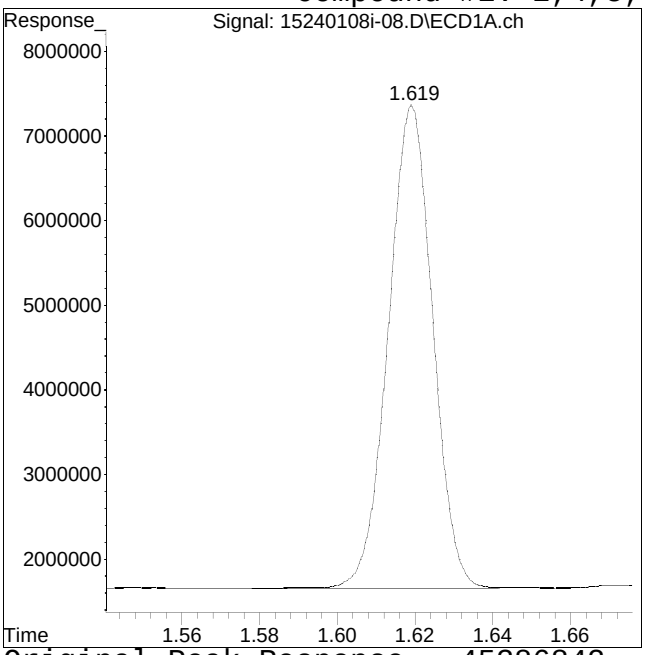
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

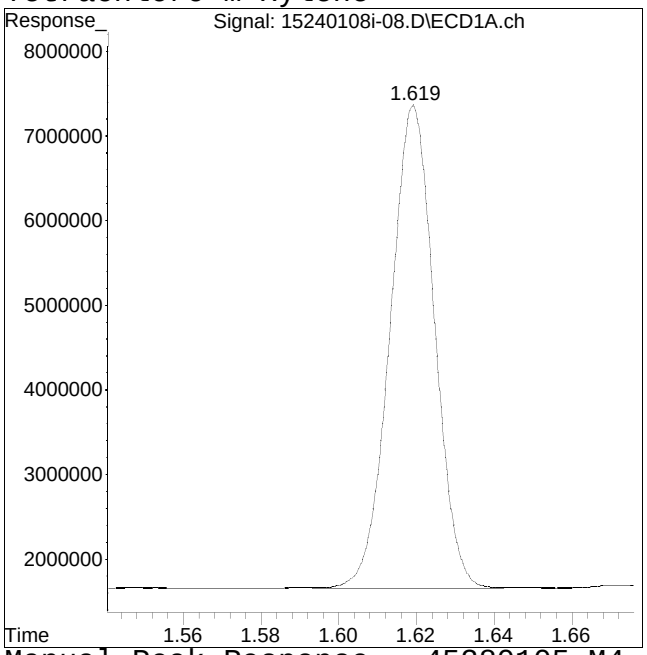


Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240108QMethod : P15_pest_2024_01_08_ugL_
Data File : 15240108i-08.D Operator : Pest15:akm
Date Inj'd : 1/8/2024 3:59 pm Instrument : Pest 15
Sample : il7pest,42e,,pp 11401 L0.0Quant Date : 1/12/2024 9:22 am

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



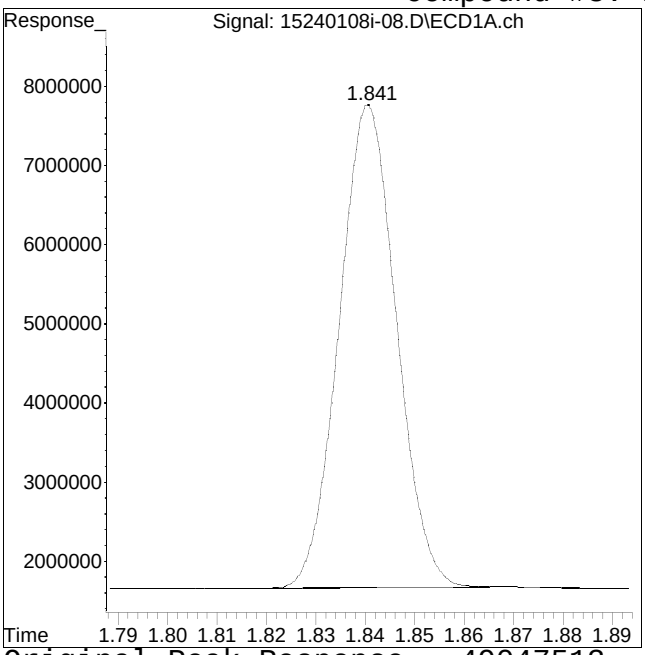


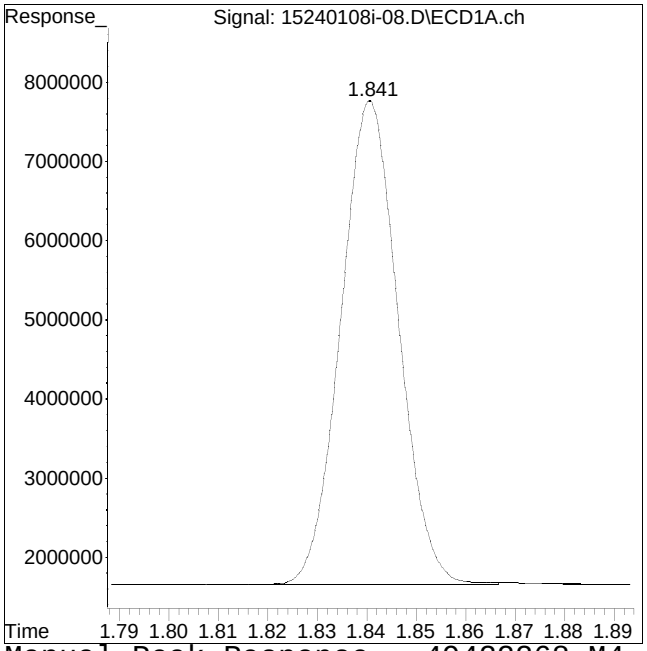
Original Peak Response = 45386842 Manual Peak Response = 45280105 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240108QMethod : P15_pest_2024_01_08_ugL_
Data File : 15240108i-08.D Operator : Pest15:akm
Date Inj'd : 1/8/2024 3:59 pm Instrument : Pest 15
Sample : il7pest,42e,,pp 11401 L0.0Quant Date : 1/12/2024 9:22 am

Compound #3: Hexachlorobenzene



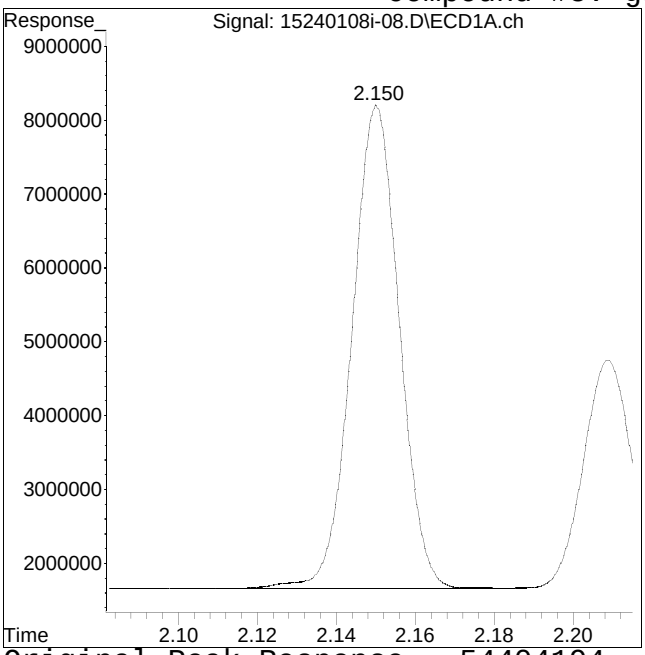


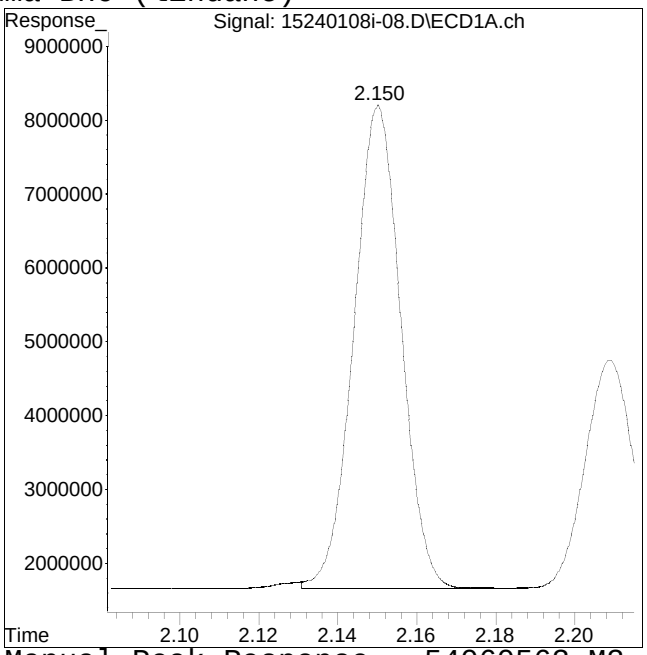
Original Peak Response = 49047513 Manual Peak Response = 49422268 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240108QMethod : P15_pest_2024_01_08_ugL_
Data File : 15240108i-08.D Operator : Pest15:akm
Date Inj'd : 1/8/2024 3:59 pm Instrument : Pest 15
Sample : il7pest,42e,,pp 11401 L0.0Quant Date : 1/12/2024 9:22 am

Compound #5: gamma-BHC (lindane)



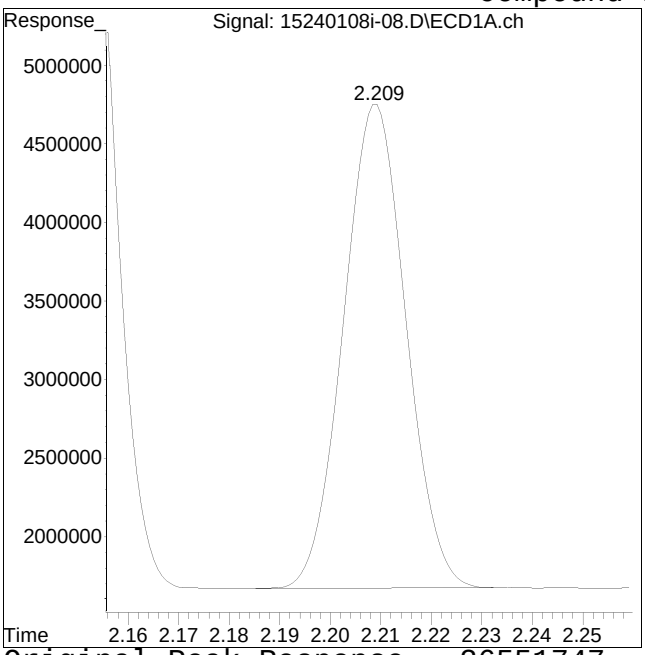


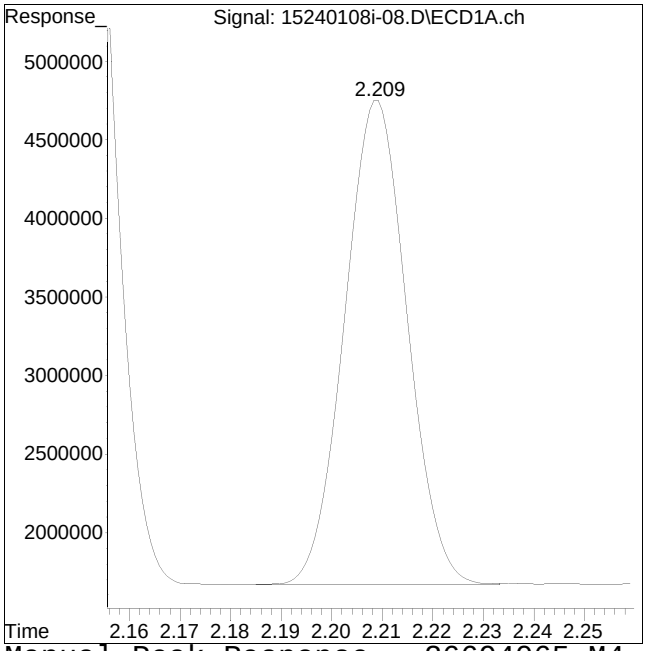
Original Peak Response = 54404194 Manual Peak Response = 54060563 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240108QMethod : P15_pest_2024_01_08_ugL_
Data File : 15240108i-08.D Operator : Pest15:akm
Date Inj'd : 1/8/2024 3:59 pm Instrument : Pest 15
Sample : il7pest,42e,,pp 11401 L0.0Quant Date : 1/12/2024 9:22 am

Compound #6: beta-BHC



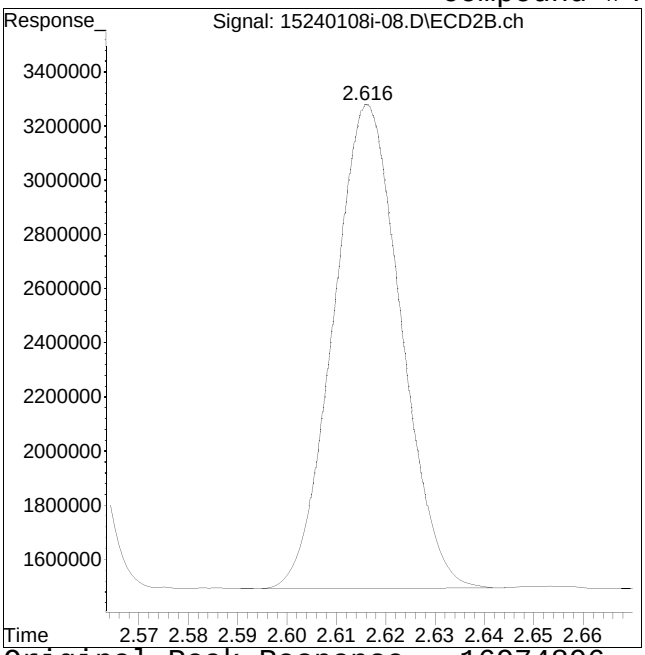


Original Peak Response = 26551747 Manual Peak Response = 26694065 M4
M4 = Poor automated baseline construction.

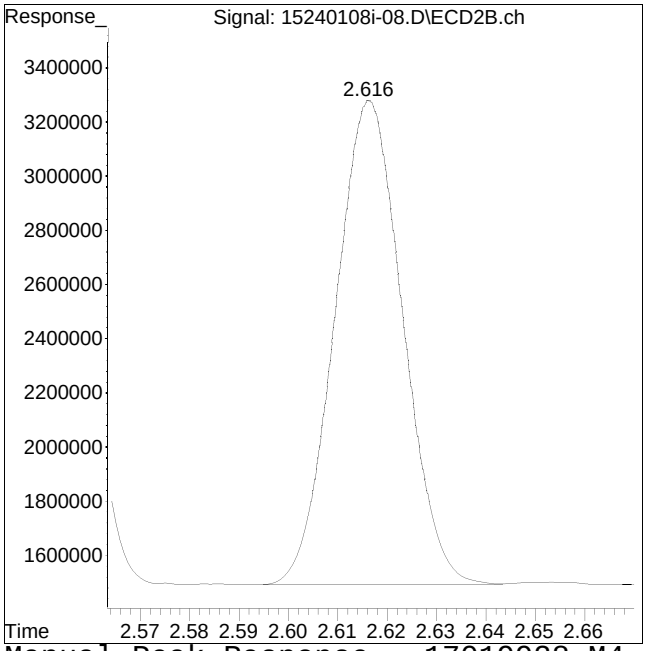
Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240108QMethod : P15_pest_2024_01_08_ugL_
Data File : 15240108i-08.D Operator : Pest15:akm
Date Inj'd : 1/8/2024 3:59 pm Instrument : Pest 15
Sample : il7pest,42e,,pp 11401 L0.0Quant Date : 1/12/2024 9:22 am

Compound #44: beta-BHC #2



Original Peak Response = 16974896



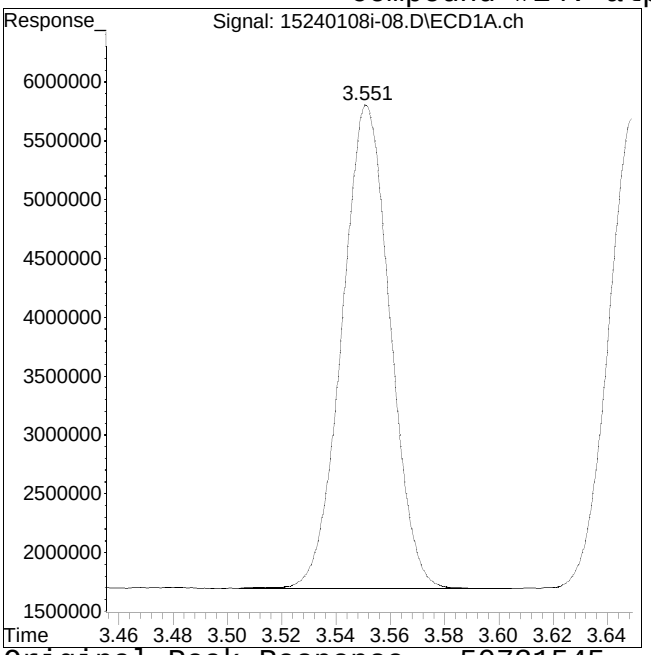
Manual Peak Response = 17019928 M4

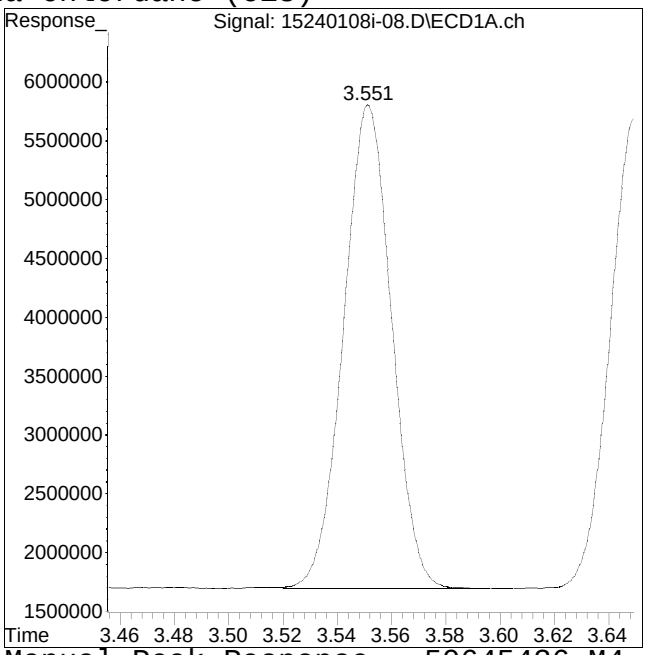
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240108QMethod : P15_pest_2024_01_08_ugL_
Data File : 15240108i-08.D Operator : Pest15:akm
Date Inj'd : 1/8/2024 3:59 pm Instrument : Pest 15
Sample : il7pest,42e,,pp 11401 L0.0Quant Date : 1/12/2024 9:22 am

Compound #14: alpha-Chlordane (cis)



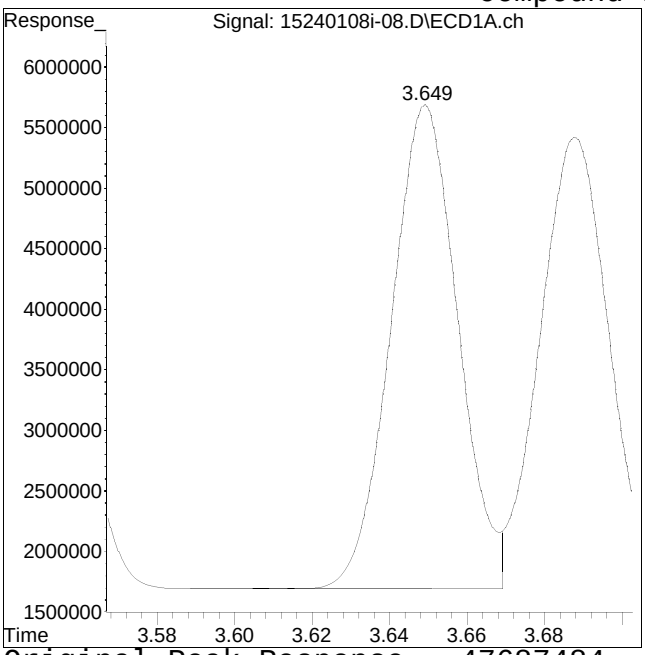


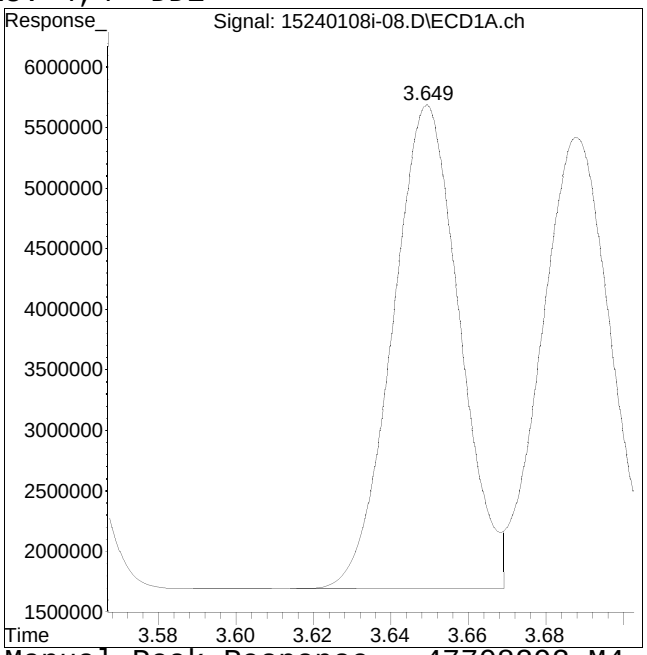
Original Peak Response = 50731545 Manual Peak Response = 50645436 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240108QMethod : P15_pest_2024_01_08_ugL_
Data File : 15240108i-08.D Operator : Pest15:akm
Date Inj'd : 1/8/2024 3:59 pm Instrument : Pest 15
Sample : il7pest,42e,,pp 11401 L0.0Quant Date : 1/12/2024 9:22 am

Compound #15: 4,4'-DDE





Original Peak Response = 47687484 Manual Peak Response = 47708292 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest15\2024\240108ical\
Data File : 15240108i-09.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 8 Jan 2024 4:11 pm
Operator : Pest15:akm
Sample : il8pest,42e,,pp 11400 L0.05
Misc : WG1874875, (Sig #1); ical (Sig #2)
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Jan 16 12:08:11 2024
Quant Method : I:\PEST\Pest15\2024\240108ical\P15_pest_2024_01_08_ugL_ICAL.m
Quant Title : pest
QLast Update : Mon Jan 15 13:12:57 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	1.250	1.332	106.0E6	69270031	25.000	25.000
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.620	1.835	217.9E6	140.3E6	48.535	45.972
	Spiked Amount 50.000	Range 30 - 150		Recovery =		97.07%	91.94%
27) s	Decachlorobi	6.296	6.940	208.6E6	108.7E6	47.780	53.456
	Spiked Amount 50.000	Range 30 - 150		Recovery =		95.56%	106.91%
	Target Compounds						
3)	Hexachlorobe	1.841	2.163	230.6E6	145.2E6	54.319	51.585
4)	alpha-BHC	1.944	2.262	302.2E6	185.0E6	51.952	49.048
5)	gamma-BHC (l	2.150	2.551	277.0E6	167.3E6	50.292M3	46.579
6)	beta-BHC	2.209	2.617	124.7E6	76126591	53.089	50.741
7)	delta-BHC	2.339	2.886	279.2E6	169.1E6	51.073	49.099
8)	Heptachlor	2.502	2.952	269.3E6	155.6E6	49.321	45.549
9)	Aldrin	2.746	3.272	254.6E6	149.4E6	50.930	46.572
10)	Alachlor	2.870	3.156	40055694	33417413	58.941M4	56.222M4
11)	Chlorpyrifos	2.962	3.511	120.1E6	71168805	58.159	55.772
12)	Heptachlor E	3.293	3.889	241.0E6	141.4E6	48.619	51.610
13)	gamma-Chlord	3.417	4.110	217.9E6	126.0E6	48.177	43.983
14)	alpha-Chlord	3.551	4.280	247.3E6	141.6E6	47.822M4	50.613
15)	4,4'-DDE	3.650	4.478	246.7E6	144.7E6	51.263	46.866
16)	Endosulfan I	3.688	4.341	228.6E6	132.3E6	48.982M4	51.444
17)	Dieldrin	3.948	4.634	241.1E6	136.2E6	50.059	46.061
18)	Endrin	4.203	4.932	248.0E6	137.3E6	50.142	51.815
19)	4,4'-DDD	4.315	5.056	203.4E6	113.0E6	47.628	50.071
20)	Endosulfan I	4.445	5.132	215.7E6	121.0E6	49.373M4	52.795M4
21)	4,4'-DDT	4.609	5.335	224.5E6	124.5E6	52.807	50.911

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest15\2024\240108ical\
Data File : 15240108i-09.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 8 Jan 2024 4:11 pm
Operator : Pest15:akm
Sample : il8pest,42e,,pp 11400 L0.05
Misc : WG1874875, (Sig #1); ical (Sig #2)
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Jan 16 12:08:11 2024
Quant Method : I:\PEST\Pest15\2024\240108ical\P15_pest_2024_01_08_ugL_ICAL.m
Quant Title : pest
QLast Update : Mon Jan 15 13:12:57 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
22)	Endrin Aldeh	4.866	5.430	178.5E6	100.8E6	53.910	50.994
23)	Methoxychlor	5.101	5.903	123.6E6	64933802	48.309	53.749
24)	Mirex	5.155	6.040	190.1E6	98982989	46.804	53.061
25)	Endosulfan S	5.261	5.660	203.0E6	111.1E6	48.328	51.853
26)	Endrin Keton	5.490	6.074	236.9E6	129.4E6	49.378	45.414M4
29) l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

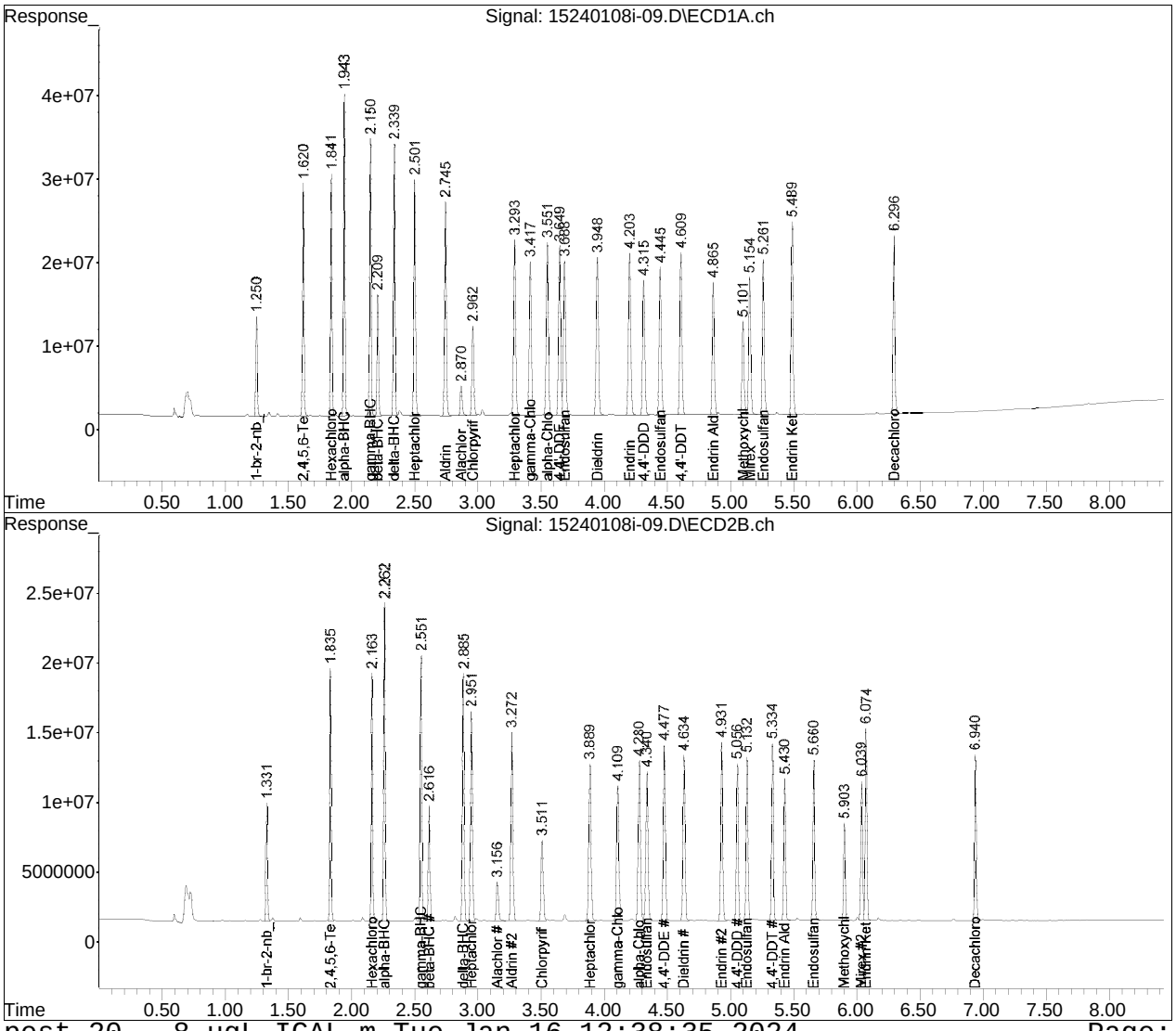
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest15\2024\240108ical\
Data File : 15240108i-09.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 8 Jan 2024 4:11 pm
Operator : Pest15:akm
Sample : il8pest,42e,,pp 11400 L0.05
Misc : WG1874875, (Sig #1); ical (Sig #2)
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Jan 16 12:08:11 2024
Quant Method : I:\PEST\Pest15\2024\240108ical\P15_pest_2024_01_08_ugL_ICAL.m
Quant Title : pest
QLast Update : Mon Jan 15 13:12:57 2024
Response via : Initial Calibration
Integrator: ChemStation

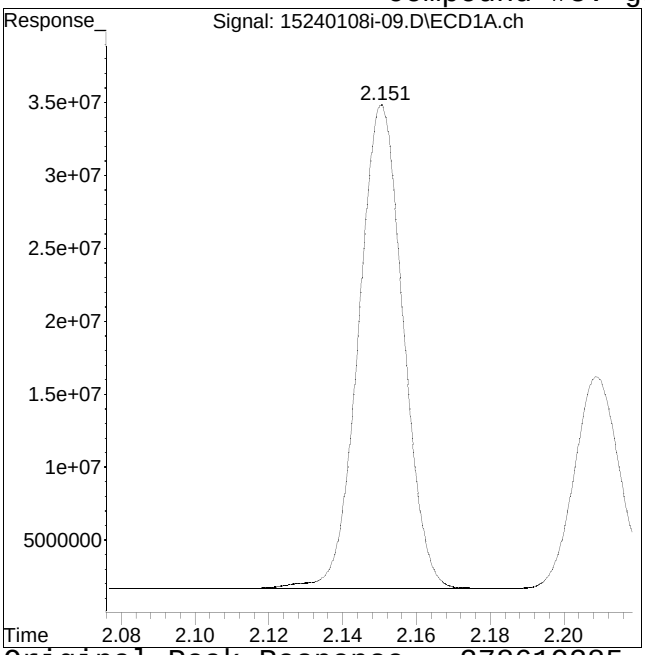
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

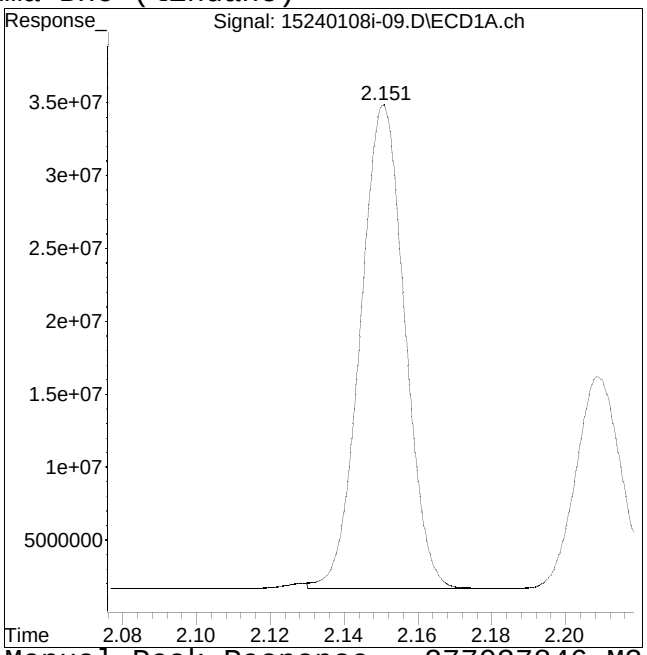


Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240108QMethod : P15_pest_2024_01_08_ugL_
Data File : 15240108i-09.D Operator : Pest15:akm
Date Inj'd : 1/8/2024 4:11 pm Instrument : Pest 15
Sample : il8pest,42e,,pp 11400 L0.0Quant Date : 1/16/2024 12:08 pm

Compound #5: gamma-BHC (lindane)



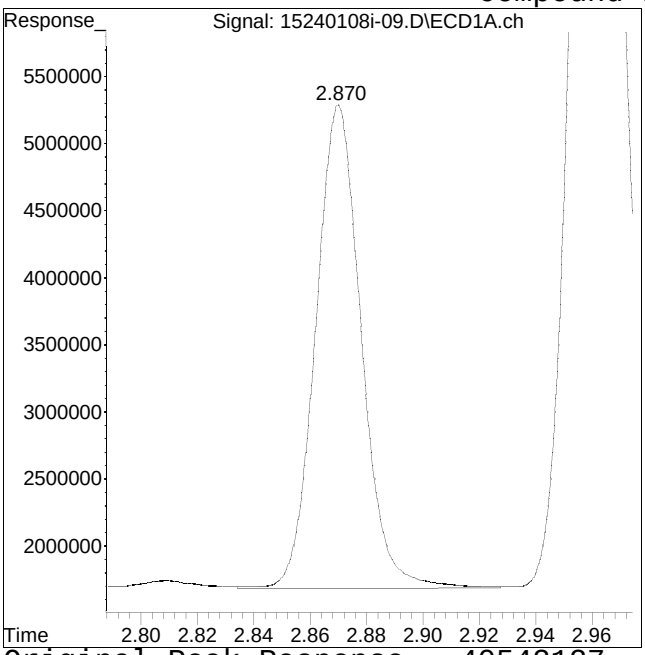


Original Peak Response = 278619385 Manual Peak Response = 277037846 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

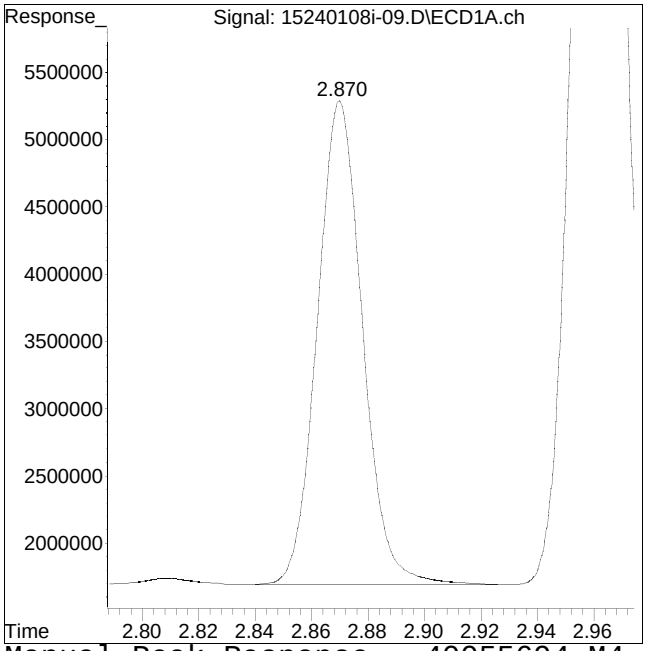
Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240108QMethod : P15_pest_2024_01_08_ugL_
Data File : 15240108i-09.D Operator : Pest15:akm
Date Inj'd : 1/8/2024 4:11 pm Instrument : Pest 15
Sample : il8pest,42e,,pp 11400 L0.0Quant Date : 1/16/2024 12:08 pm

Compound #10: Alachlor



Original Peak Response = 40542127



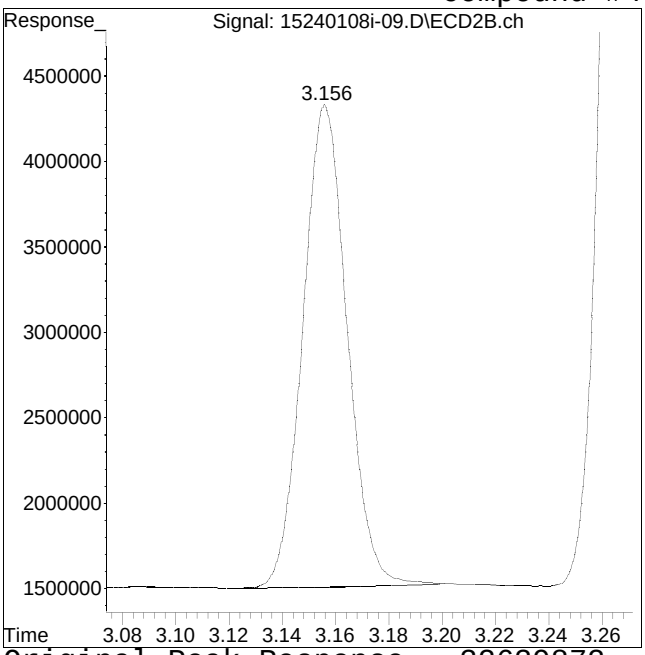
Manual Peak Response = 40055694 M4

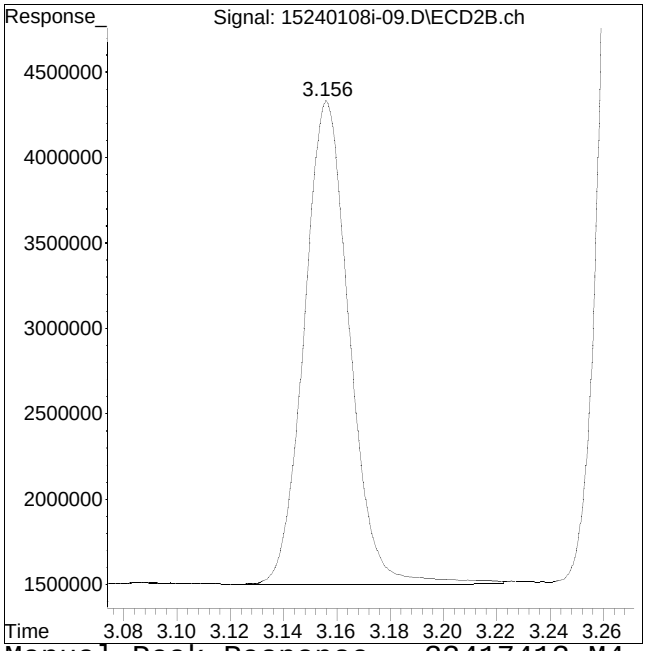
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240108QMethod : P15_pest_2024_01_08_ugL_
Data File : 15240108i-09.D Operator : Pest15:akm
Date Inj'd : 1/8/2024 4:11 pm Instrument : Pest 15
Sample : il8pest,42e,,pp 11400 L0.0Quant Date : 1/16/2024 12:08 pm

Compound #48: Alachlor #2



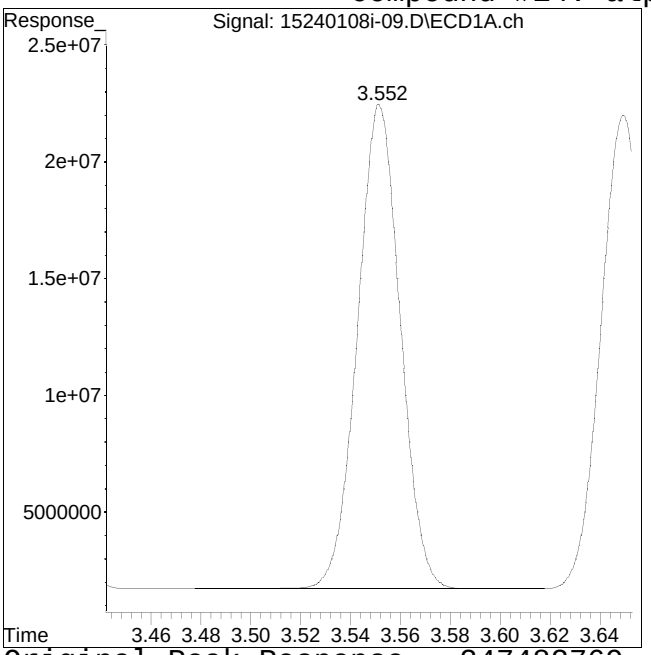


Original Peak Response = 32639872 Manual Peak Response = 33417413 M4
M4 = Poor automated baseline construction.

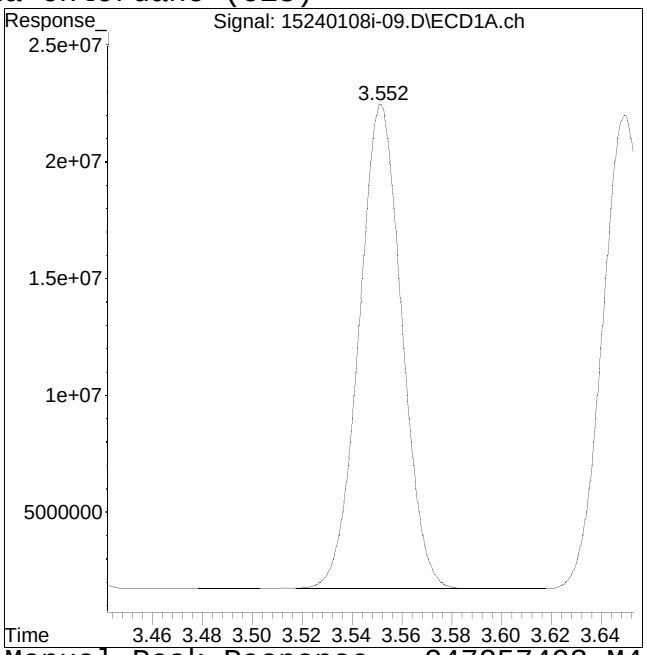
Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240108QMethod : P15_pest_2024_01_08_ugL_
Data File : 15240108i-09.D Operator : Pest15:akm
Date Inj'd : 1/8/2024 4:11 pm Instrument : Pest 15
Sample : il8pest,42e,,pp 11400 L0.0Quant Date : 1/16/2024 12:08 pm

Compound #14: alpha-Chlordane (cis)



Original Peak Response = 247482769

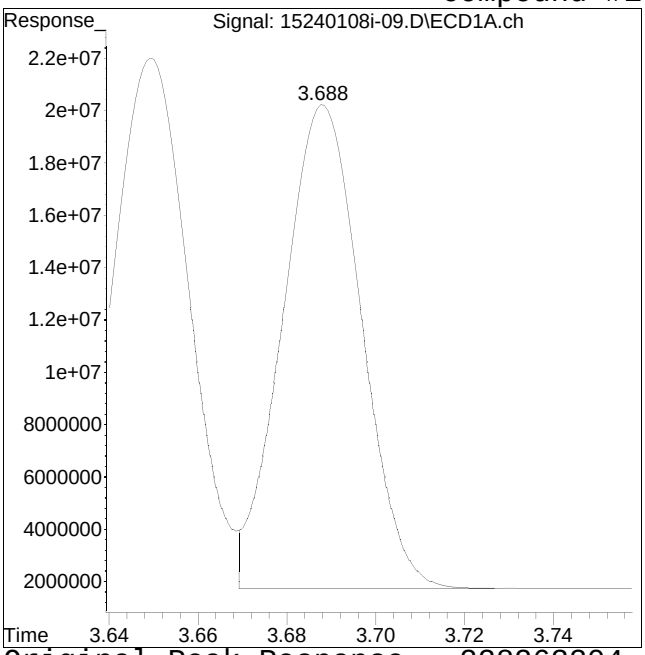


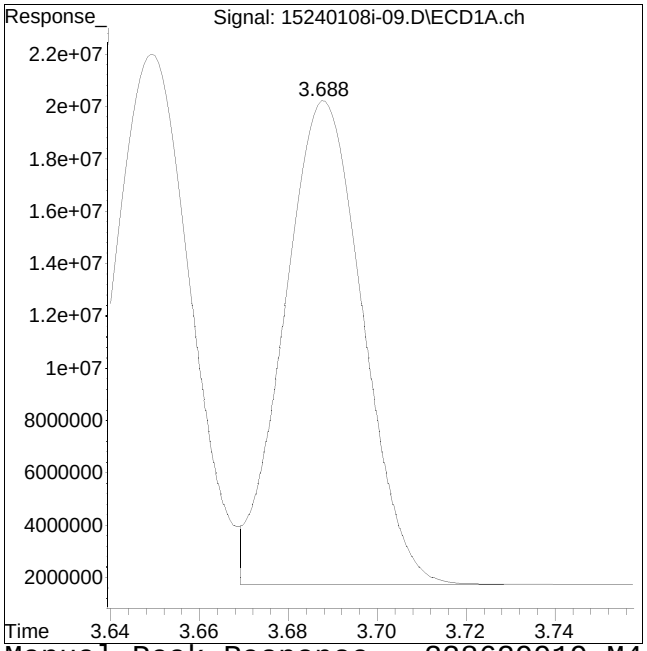
Manual Peak Response = 247257493 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240108QMethod : P15_pest_2024_01_08_ugL_
Data File : 15240108i-09.D Operator : Pest15:akm
Date Inj'd : 1/8/2024 4:11 pm Instrument : Pest 15
Sample : il8pest,42e,,pp 11400 L0.0Quant Date : 1/16/2024 12:08 pm

Compound #16: Endosulfan I



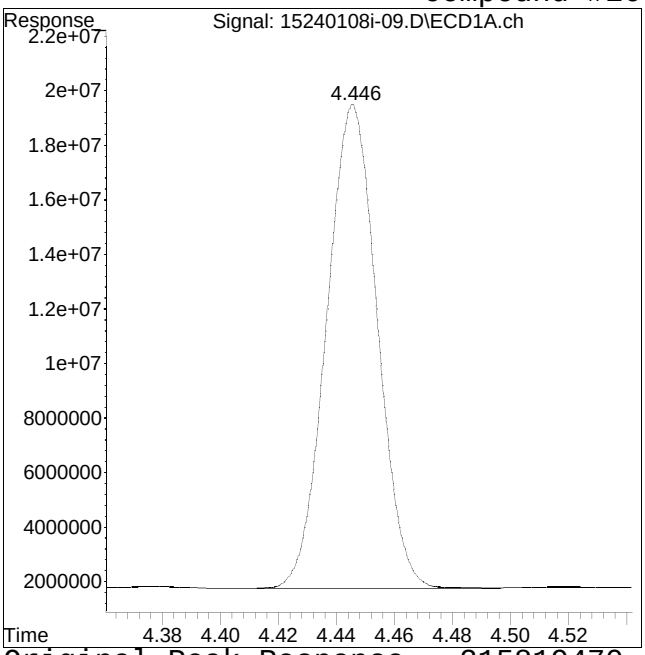


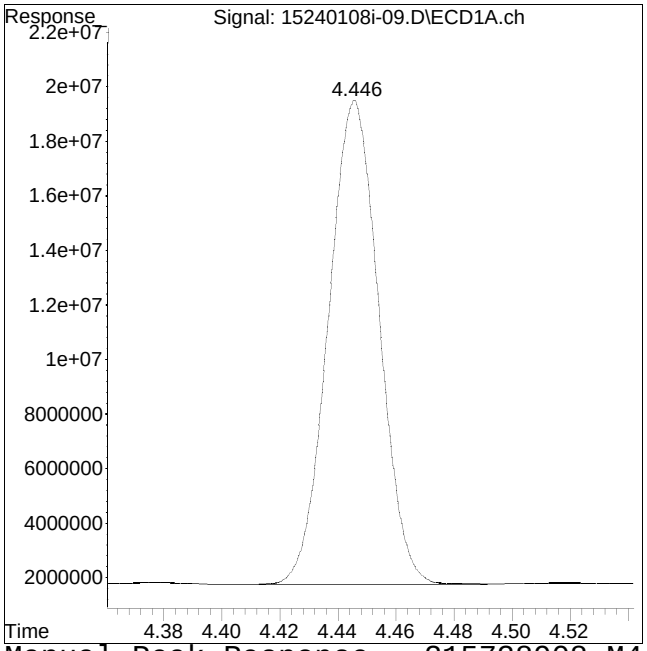
Original Peak Response = 228263304 Manual Peak Response = 228629919 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240108QMethod : P15_pest_2024_01_08_ugL_
Data File : 15240108i-09.D Operator : Pest15:akm
Date Inj'd : 1/8/2024 4:11 pm Instrument : Pest 15
Sample : il8pest,42e,,pp 11400 L0.0Quant Date : 1/16/2024 12:08 pm

Compound #20: Endosulfan II



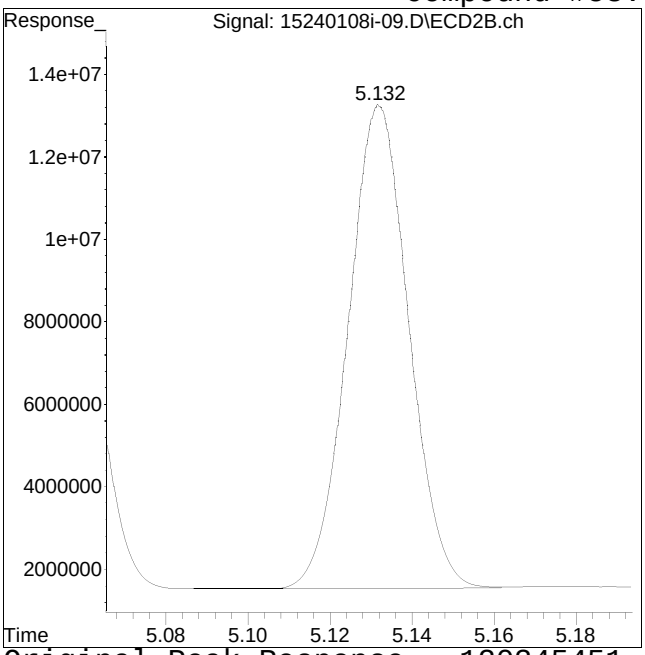


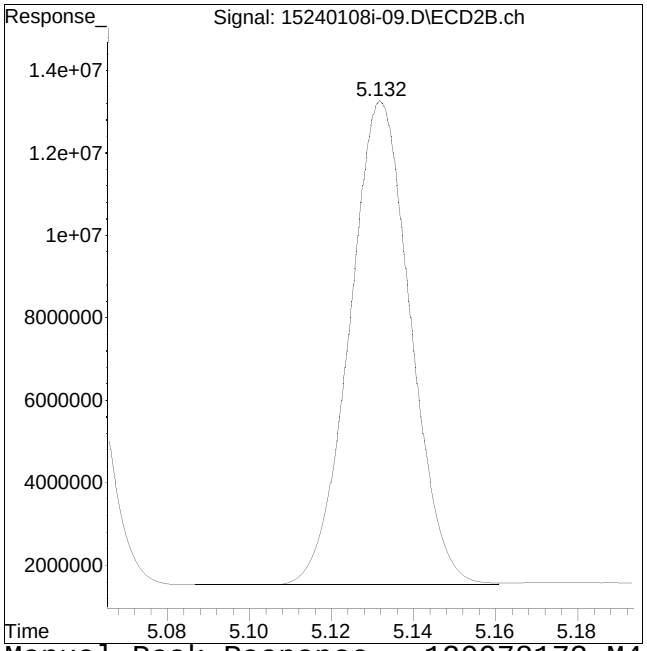
Original Peak Response = 215819470 Manual Peak Response = 215738908 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240108QMethod : P15_pest_2024_01_08_ugL_
Data File : 15240108i-09.D Operator : Pest15:akm
Date Inj'd : 1/8/2024 4:11 pm Instrument : Pest 15
Sample : il8pest,42e,,pp 11400 L0.0Quant Date : 1/16/2024 12:08 pm

Compound #58: Endosulfan II #2



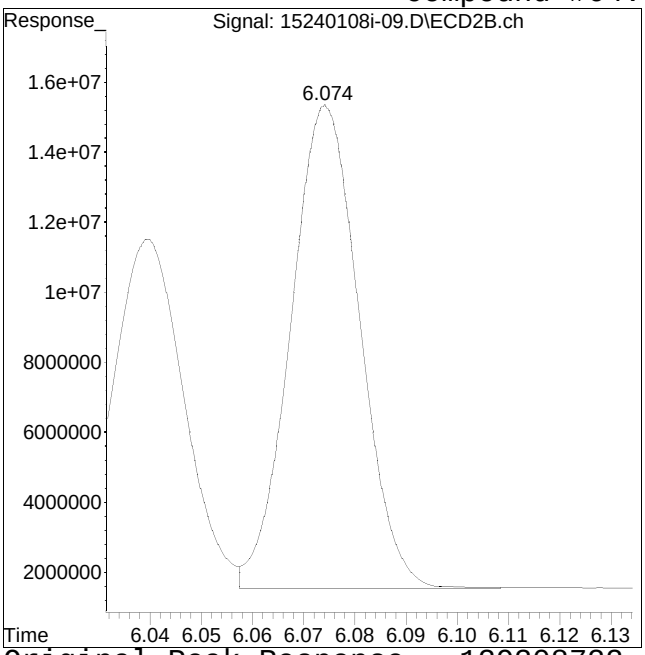


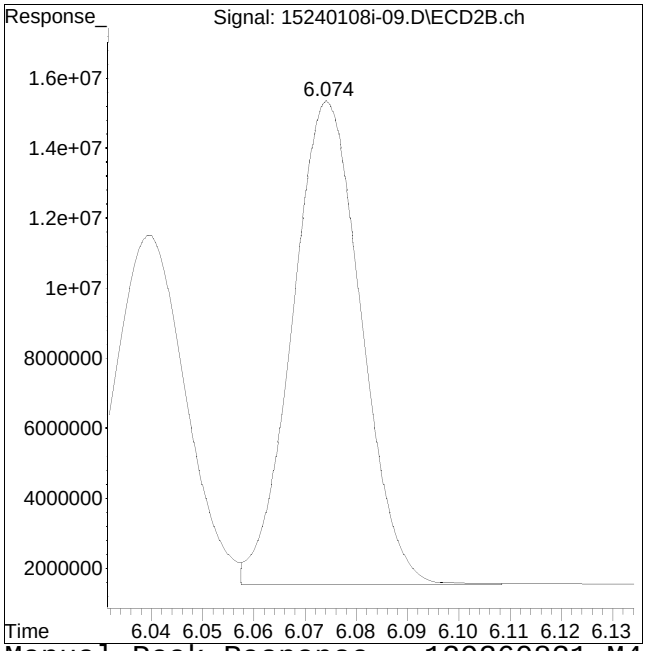
Original Peak Response = 120345451 Manual Peak Response = 120978173 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240108QMethod : P15_pest_2024_01_08_ugL_
Data File : 15240108i-09.D Operator : Pest15:akm
Date Inj'd : 1/8/2024 4:11 pm Instrument : Pest 15
Sample : il8pest,42e,,pp 11400 L0.0Quant Date : 1/16/2024 12:08 pm

Compound #64: Endrin Ketone #2





Original Peak Response = 129308722 Manual Peak Response = 129360831 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest15\2024\240108ical\
Data File : 15240108i-10.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 8 Jan 2024 4:23 pm
Operator : Pest15:akm
Sample : il9pest,42e,,pp 11399 L0.1
Misc : WG1874875, (Sig #1); ical (Sig #2)
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Jan 15 13:05:13 2024
Quant Method : I:\PEST\Pest15\2024\240108ical\P15_pest_2024_01_08_ugL_ICAL.m
Quant Title : pest
QLast Update : Fri Jan 12 09:07:55 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	1.249	1.330	105.3E6	67455870	25.000	25.000
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.619	1.834	421.6E6	274.1E6	97.364M4	100.342
	Spiked Amount 50.000	Range 30 - 150		Recovery =		194.73%#	200.68%#
27) s	Decachlorobi	6.296	6.941	389.9E6	203.7E6	94.059	96.223
	Spiked Amount 50.000	Range 30 - 150		Recovery =		188.12%#	192.45%#
	Target Compounds						
3)	Hexachlorobe	1.840	2.163	440.0E6	281.2E6	96.014M3	99.450
4)	alpha-BHC	1.943	2.262	591.9E6	368.6E6	98.569	102.296
5)	gamma-BHC (l	2.150	2.551	538.4E6	332.6E6	97.800M3	102.053
6)	beta-BHC	2.208	2.617	241.1E6	148.0E6	97.311	99.823
7)	delta-BHC	2.338	2.885	548.8E6	338.4E6	98.913	102.758
8)	Heptachlor	2.501	2.951	516.9E6	306.4E6	96.589	101.093
9)	Aldrin	2.745	3.272	496.1E6	297.0E6	98.039	102.111
10)	Alachlor	2.869	3.157	73520596	60784263	92.361M4	93.393
11)	Chlorpyrifos	2.961	3.511	222.4E6	130.9E6	93.191	94.468
12)	Heptachlor E	3.293	3.889	466.9E6	275.4E6	97.474	99.967
13)	gamma-Chlord	3.417	4.110	428.1E6	247.8E6	98.879	100.950
14)	alpha-Chlord	3.550	4.279	480.4E6	277.0E6	97.762M4	100.415
15)	4,4'-DDE	3.649	4.477	482.7E6	287.5E6	98.449	101.982
16)	Endosulfan I	3.688	4.340	442.9E6	258.1E6	97.491	100.187
17)	Dieldrin	3.948	4.633	472.1E6	268.4E6	98.536	101.176
18)	Endrin	4.202	4.932	483.6E6	267.8E6	98.150	100.120
19)	4,4'-DDD	4.315	5.056	398.0E6	222.9E6	98.471	101.243
20)	Endosulfan I	4.445	5.131	417.5E6	235.0E6	97.339	100.276M4
21)	4,4'-DDT	4.609	5.335	444.5E6	241.6E6	99.609	99.593
22)	Endrin Aldeh	4.866	5.430	348.0E6	196.9E6	98.103	100.289
23)	Methoxychlor	5.101	5.903	231.5E6	121.9E6	94.263	96.367M4

Data Path : I:\PEST\Pest15\2024\240108ical\
Data File : 15240108i-10.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 8 Jan 2024 4:23 pm
Operator : Pest15:akm
Sample : il9pest,42e,,pp 11399 L0.1
Misc : WG1874875, (Sig #1); ical (Sig #2)
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Jan 15 13:05:13 2024
Quant Method : I:\PEST\Pest15\2024\240108ical\P15_pest_2024_01_08_ugL_ICAL.m
Quant Title : pest
QLast Update : Fri Jan 12 09:07:55 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
24)	Mirex	5.154	6.040	358.3E6	185.6E6	94.814	96.296
25)	Endosulfan S	5.262	5.660	390.3E6	214.9E6	96.756	99.353
26)	Endrin Keton	5.490	6.074	449.8E6	248.7E6	95.565	98.705
29) l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

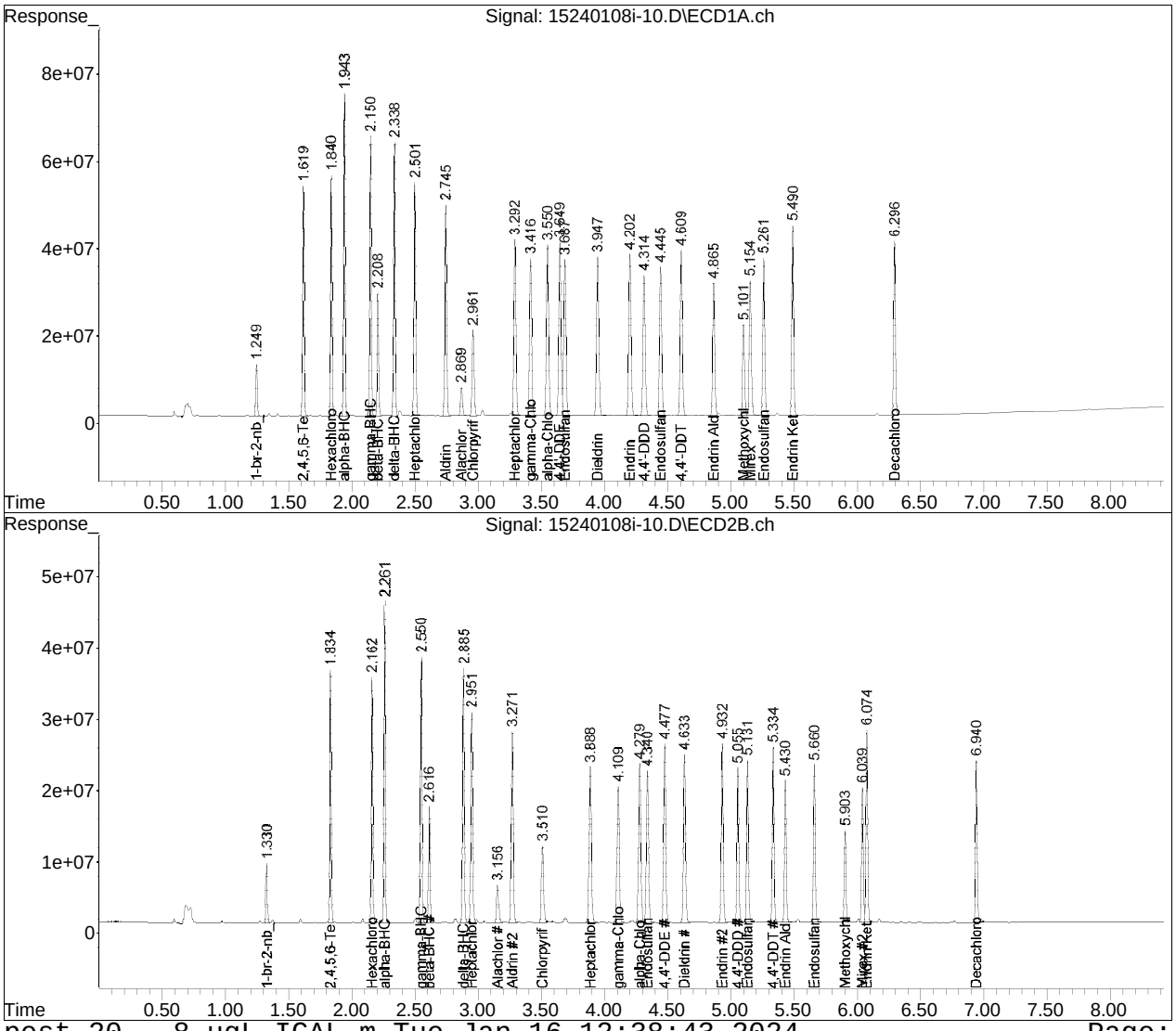
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest15\2024\240108ical\
Data File : 15240108i-10.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 8 Jan 2024 4:23 pm
Operator : Pest15:akm
Sample : il9pest,42e,,pp 11399 L0.1
Misc : WG1874875, (Sig #1); ical (Sig #2)
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Jan 15 13:05:13 2024
Quant Method : I:\PEST\Pest15\2024\240108ical\P15_pest_2024_01_08_ugL_ICAL.m
Quant Title : pest
QLast Update : Fri Jan 12 09:07:55 2024
Response via : Initial Calibration
Integrator: ChemStation

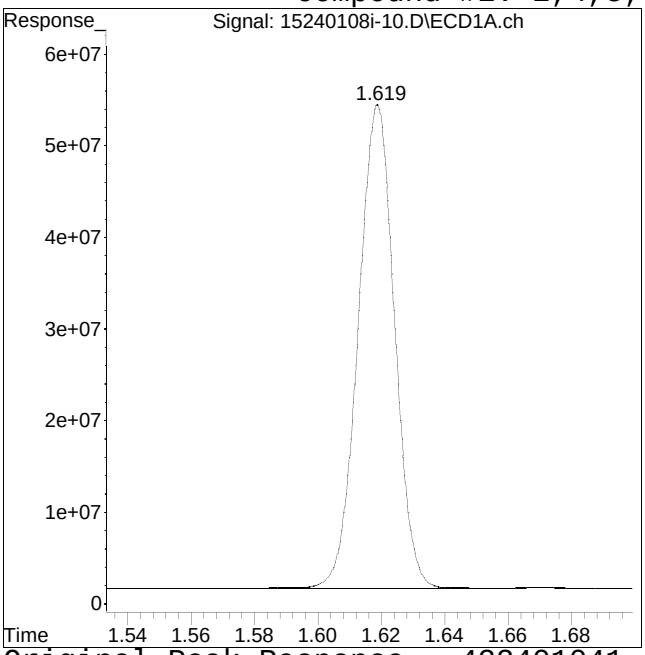
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

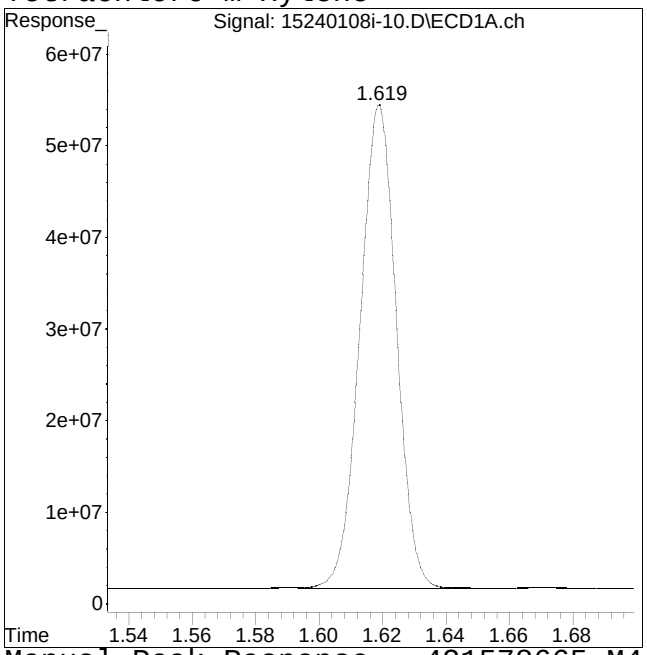


Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240108QMethod : P15_pest_2024_01_08_ugL_
Data File : 15240108i-10.D Operator : Pest15:akm
Date Inj'd : 1/8/2024 4:23 pm Instrument : Pest 15
Sample : il9pest,42e,,pp 11399 L0.1Quant Date : 1/12/2024 9:08 am

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



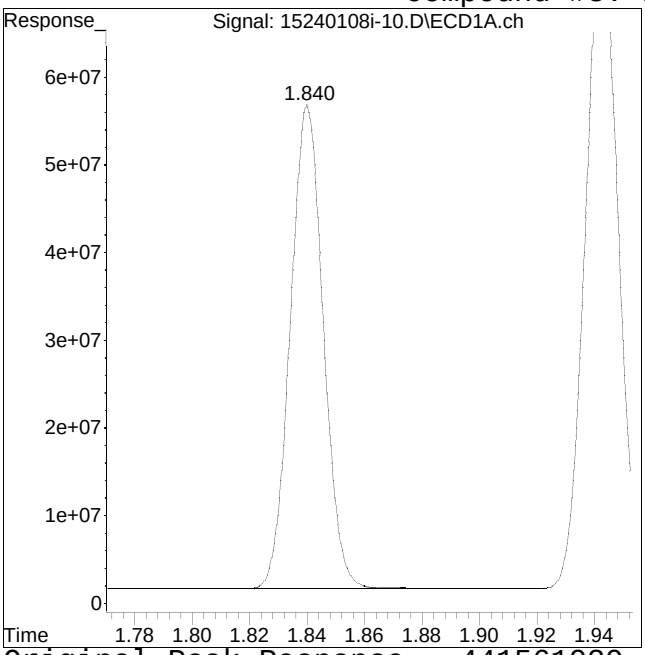


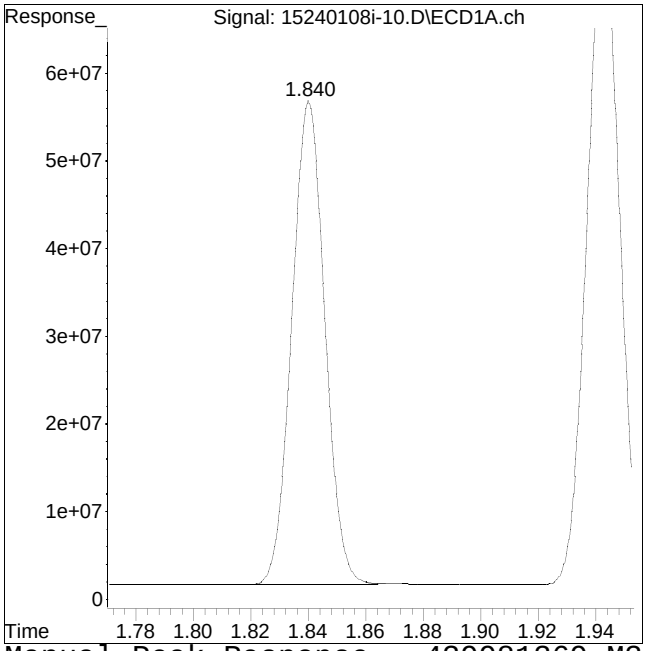
Original Peak Response = 422401041 Manual Peak Response = 421578665 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240108QMethod : P15_pest_2024_01_08_ugL_
Data File : 15240108i-10.D Operator : Pest15:akm
Date Inj'd : 1/8/2024 4:23 pm Instrument : Pest 15
Sample : il9pest,42e,,pp 11399 L0.1Quant Date : 1/12/2024 9:08 am

Compound #3: Hexachlorobenzene



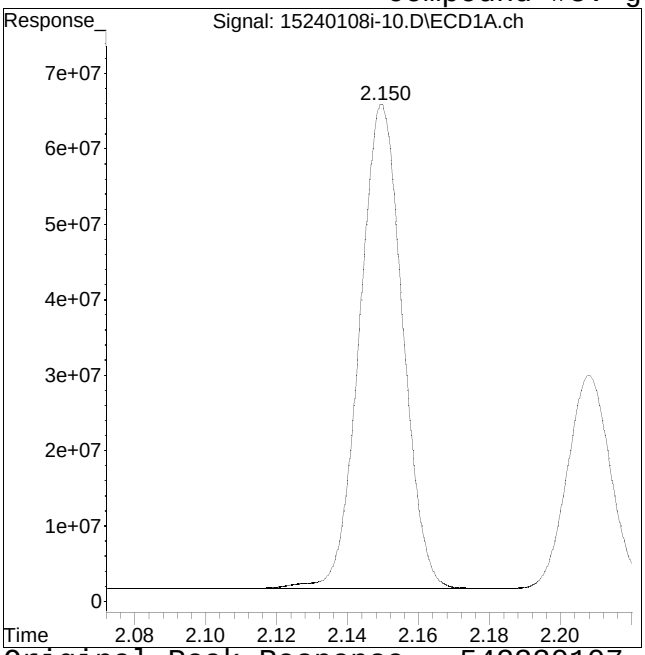


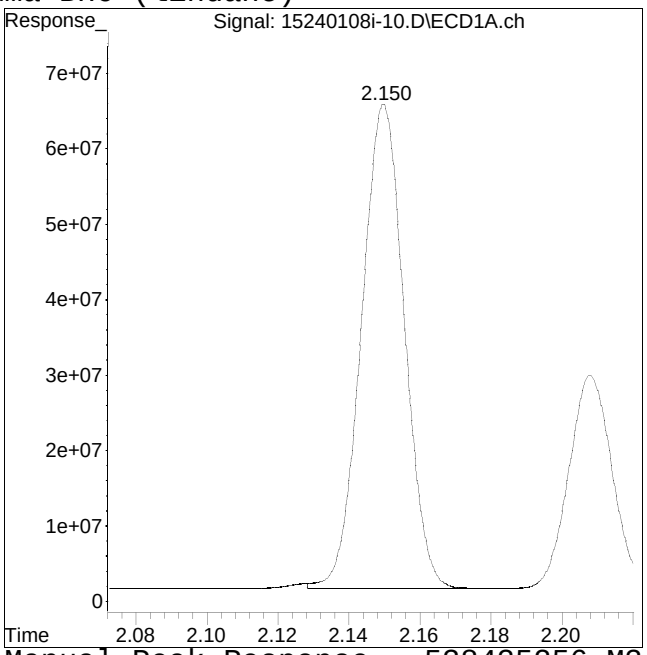
Original Peak Response = 441561929 Manual Peak Response = 439981369 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240108QMethod : P15_pest_2024_01_08_ugL_
Data File : 15240108i-10.D Operator : Pest15:akm
Date Inj'd : 1/8/2024 4:23 pm Instrument : Pest 15
Sample : il9pest,42e,,pp 11399 L0.1Quant Date : 1/12/2024 9:08 am

Compound #5: gamma-BHC (lindane)



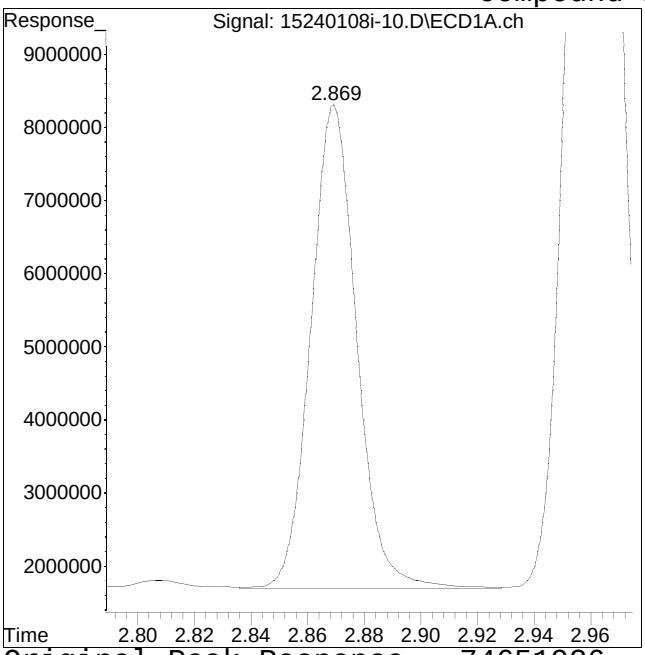


Original Peak Response = 542330107 Manual Peak Response = 538435256 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

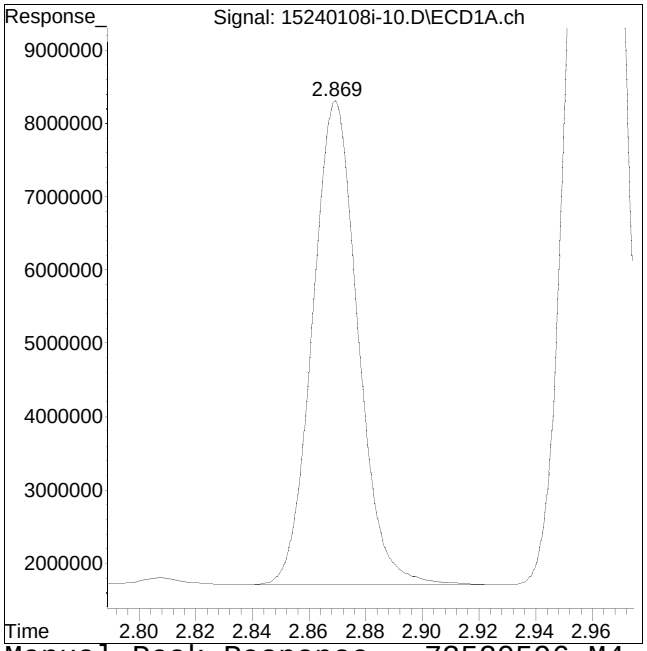
Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240108QMethod : P15_pest_2024_01_08_ugL_
Data File : 15240108i-10.D Operator : Pest15:akm
Date Inj'd : 1/8/2024 4:23 pm Instrument : Pest 15
Sample : il9pest,42e,,pp 11399 L0.1Quant Date : 1/12/2024 9:08 am

Compound #10: Alachlor



Original Peak Response = 74651926



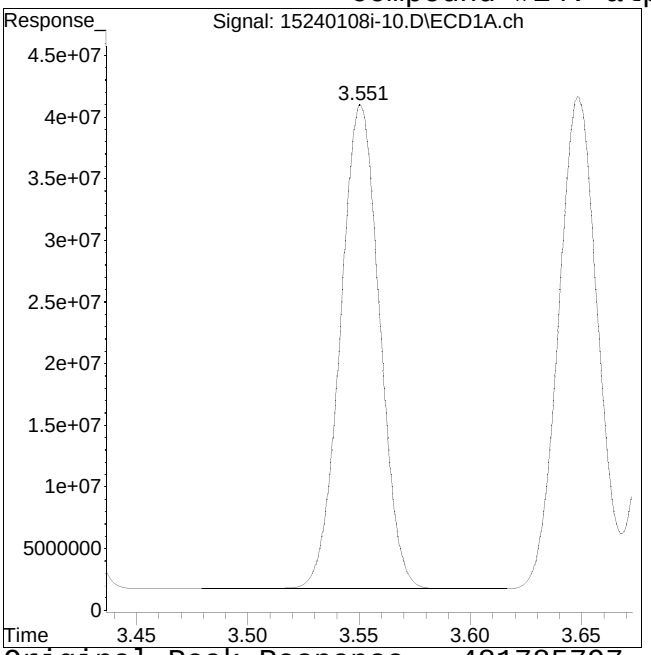
Manual Peak Response = 73520596 M4

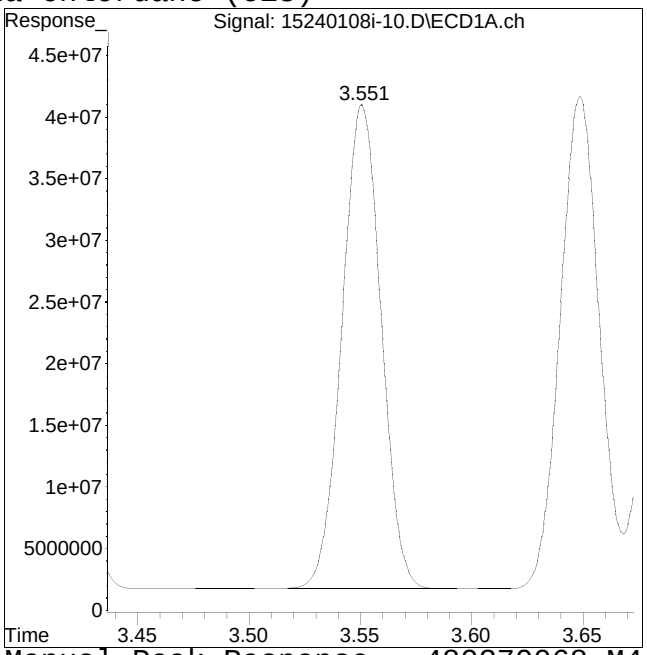
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240108QMethod : P15_pest_2024_01_08_ugL_
Data File : 15240108i-10.D Operator : Pest15:akm
Date Inj'd : 1/8/2024 4:23 pm Instrument : Pest 15
Sample : il9pest,42e,,pp 11399 L0.1Quant Date : 1/12/2024 9:08 am

Compound #14: alpha-Chlordane (cis)



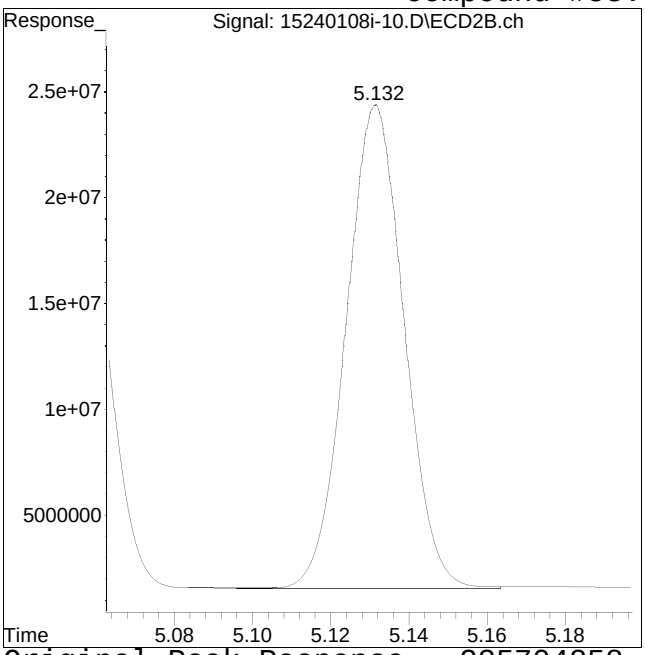


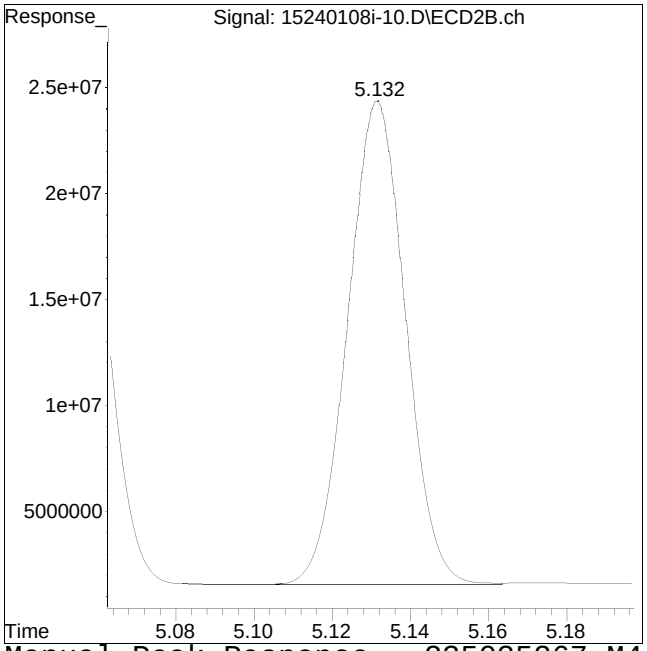
Original Peak Response = 481785797 Manual Peak Response = 480370068 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240108QMethod : P15_pest_2024_01_08_ugL_
Data File : 15240108i-10.D Operator : Pest15:akm
Date Inj'd : 1/8/2024 4:23 pm Instrument : Pest 15
Sample : il9pest,42e,,pp 11399 L0.1Quant Date : 1/12/2024 9:08 am

Compound #58: Endosulfan II #2



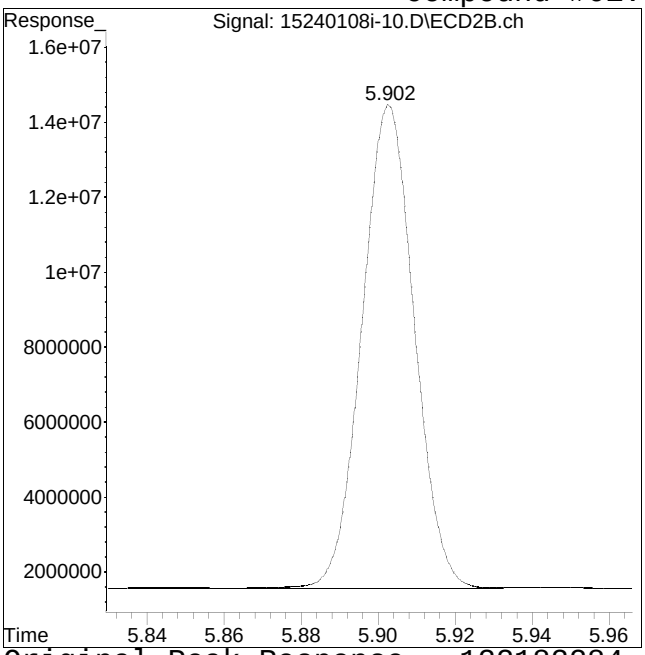


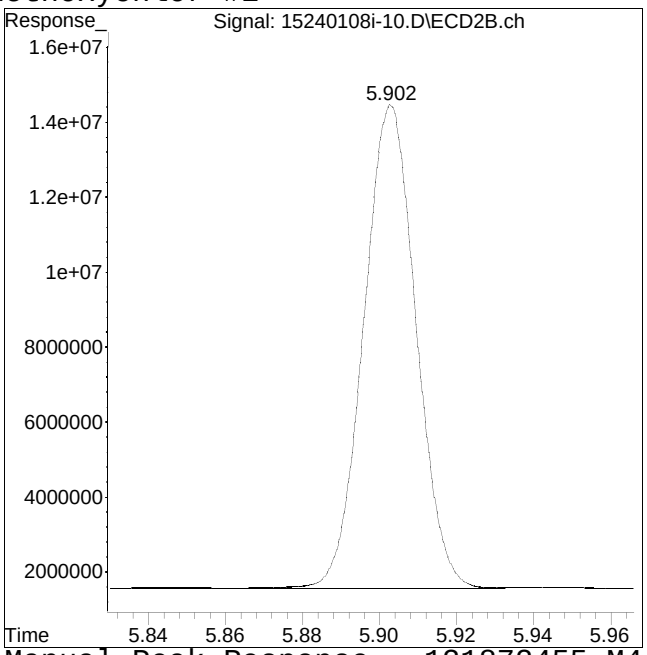
Original Peak Response = 235704258 Manual Peak Response = 235035267 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240108QMethod : P15_pest_2024_01_08_ugL_
Data File : 15240108i-10.D Operator : Pest15:akm
Date Inj'd : 1/8/2024 4:23 pm Instrument : Pest 15
Sample : il9pest,42e,,pp 11399 L0.1Quant Date : 1/12/2024 9:08 am

Compound #61: Methoxychlor #2





Original Peak Response = 122182284 Manual Peak Response = 121872455 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest15\2024\240108ical\
Data File : 15240108i-11.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 8 Jan 2024 4:34 pm
Operator : Pest15:akm
Sample : il10pest,42e,,pp 11398 L0.2
Misc : WG1874875, (Sig #1); ical (Sig #2)
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Jan 15 13:01:53 2024
Quant Method : I:\PEST\Pest15\2024\240108ical\P15_pest_2024_01_08_ugL_ICAL.m
Quant Title : pest
QLast Update : Fri Jan 12 09:10:05 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	1.249	1.330	107.9E6	69939317	25.000	25.000
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.619	1.834	822.6E6	553.1E6	187.848M3	194.931
	Spiked Amount 50.000	Range 30 - 150		Recovery =		375.70%#	389.86%#
27) s	Decachlorobi	6.296	6.940	760.8E6	404.4E6	184.578	187.786
	Spiked Amount 50.000	Range 30 - 150		Recovery =		369.16%#	375.57%#
	Target Compounds						
3)	Hexachlorobe	1.840	2.163	876.0E6	565.4E6	190.321M3	193.419
4)	alpha-BHC	1.943	2.262	1200.0E6	759.8E6	196.386M4	201.080
5)	gamma-BHC (l	2.150	2.551	1087.2E6	682.3E6	194.122M3	199.845
6)	beta-BHC	2.209	2.616	484.0E6	300.0E6	193.231	195.348M4
7)	delta-BHC	2.339	2.885	1117.1E6	699.7E6	197.541	202.128
8)	Heptachlor	2.501	2.951	1017.5E6	614.8E6	188.732	194.601
9)	Aldrin	2.745	3.272	984.7E6	608.7E6	191.776	199.723
10)	Alachlor	2.869	3.156	140.9E6	119.9E6	179.562	183.703
11)	Chlorpyrifos	2.961	3.511	424.2E6	252.3E6	179.581	180.584
12)	Heptachlor E	3.293	3.889	920.0E6	558.1E6	189.788	195.419
13)	gamma-Chlord	3.417	4.109	862.2E6	510.8E6	195.396	199.771
14)	alpha-Chlord	3.551	4.280	961.3E6	565.6E6	192.774M3	197.364
15)	4,4'-DDE	3.649	4.478	963.7E6	590.2E6	193.284	199.959
16)	Endosulfan I	3.687	4.340	871.5E6	522.8E6	189.544M3	195.528
17)	Dieldrin	3.948	4.633	945.0E6	547.8E6	193.878	197.983M4
18)	Endrin	4.203	4.932	961.5E6	539.3E6	192.170	194.320
19)	4,4'-DDD	4.314	5.055	801.3E6	456.7E6	194.903	198.822M4
20)	Endosulfan I	4.445	5.131	818.7E6	469.6E6	188.772M4	192.985M4
21)	4,4'-DDT	4.608	5.334	874.1E6	488.8E6	191.502M4	194.769M4

Data Path : I:\PEST\Pest15\2024\240108ical\
Data File : 15240108i-11.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 8 Jan 2024 4:34 pm
Operator : Pest15:akm
Sample : il10pest,42e,,pp 11398 L0.2
Misc : WG1874875, (Sig #1); ical (Sig #2)
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Jan 15 13:01:53 2024
Quant Method : I:\PEST\Pest15\2024\240108ical\P15_pest_2024_01_08_ugL_ICAL.m
Quant Title : pest
QLast Update : Fri Jan 12 09:10:05 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
22)	Endrin Aldeh	4.865	5.430	693.7E6	401.2E6	192.642	196.821
23)	Methoxychlor	5.101	5.903	449.6E6	241.9E6	183.920	187.924
24)	Mirex	5.155	6.040	710.4E6	370.9E6	188.312	189.048
25)	Endosulfan S	5.261	5.660	770.4E6	432.7E6	189.444M4	193.554M4
26)	Endrin Keton	5.489	6.074	880.6E6	496.5E6	186.681M4	191.290
29) l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

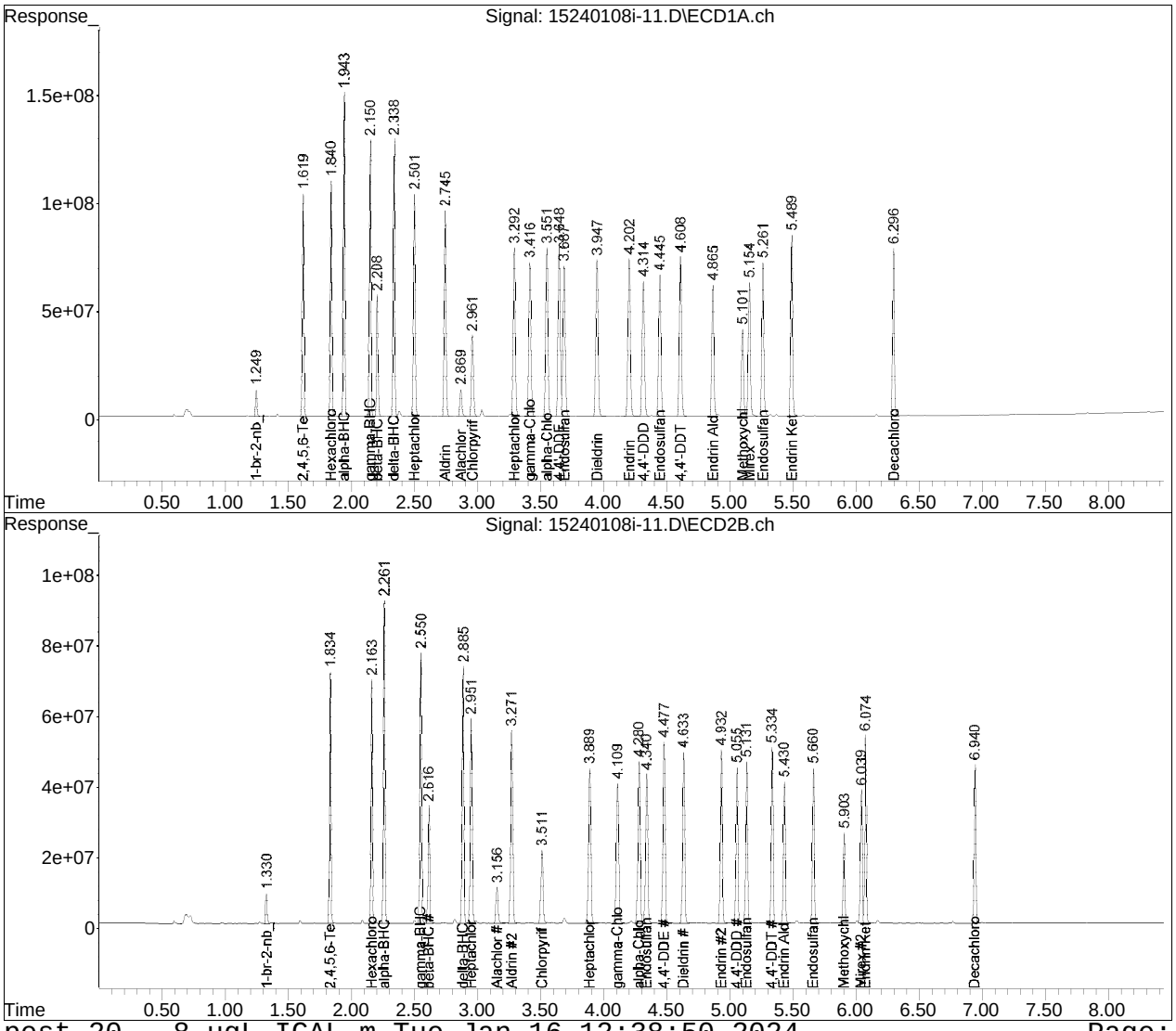
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest15\2024\240108ical\
Data File : 15240108i-11.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 8 Jan 2024 4:34 pm
Operator : Pest15:akm
Sample : il10pest,42e,,pp 11398 L0.2
Misc : WG1874875, (Sig #1); ical (Sig #2)
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Jan 15 13:01:53 2024
Quant Method : I:\PEST\Pest15\2024\240108ical\P15_pest_2024_01_08_ugL_ICAL.m
Quant Title : pest
QLast Update : Fri Jan 12 09:10:05 2024
Response via : Initial Calibration
Integrator: ChemStation

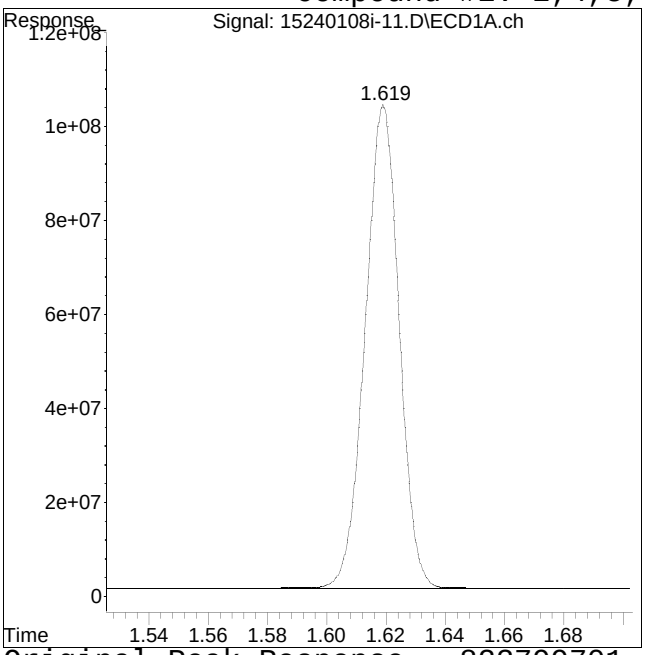
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

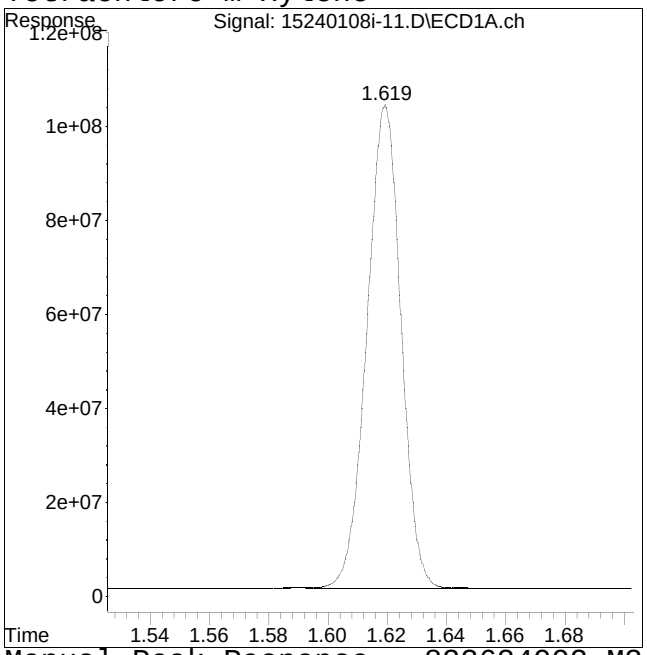


Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240108QMethod : P15_pest_2024_01_08_ugL_
Data File : 15240108i-11.D Operator : Pest15:akm
Date Inj'd : 1/8/2024 4:34 pm Instrument : Pest 15
Sample : il10pest,42e,,pp 11398 L0.Quant Date : 1/12/2024 9:10 am

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



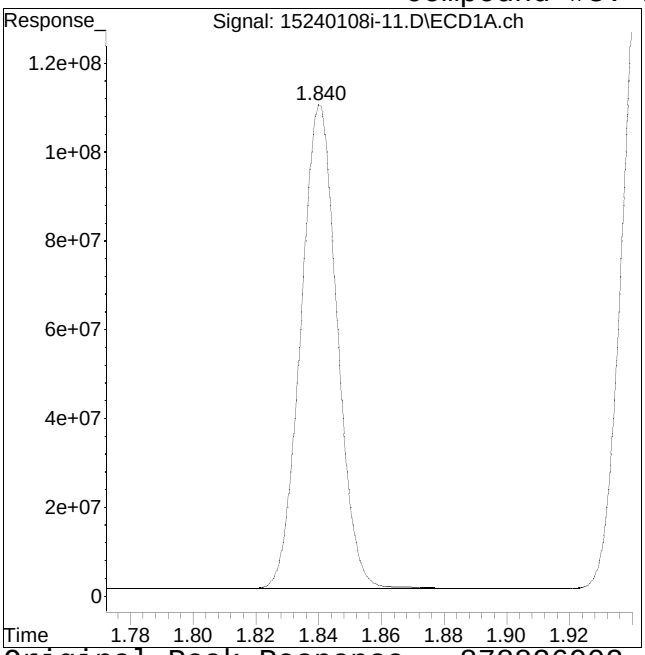


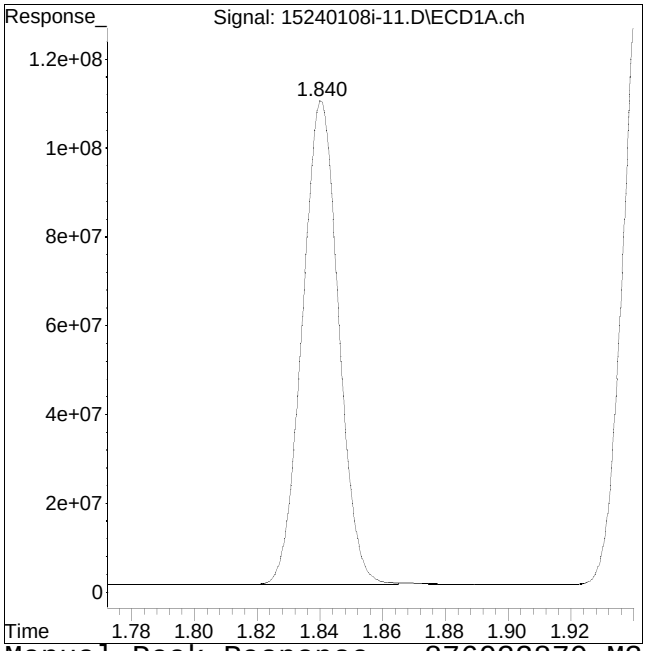
Original Peak Response = 823799701 Manual Peak Response = 822624992 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240108QMethod : P15_pest_2024_01_08_ugL_
Data File : 15240108i-11.D Operator : Pest15:akm
Date Inj'd : 1/8/2024 4:34 pm Instrument : Pest 15
Sample : il10pest,42e,,pp 11398 L0.Quant Date : 1/12/2024 9:10 am

Compound #3: Hexachlorobenzene



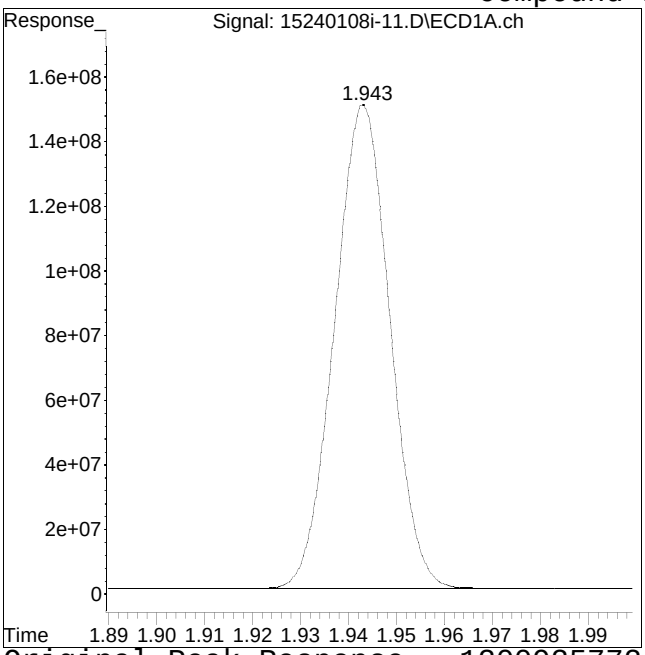


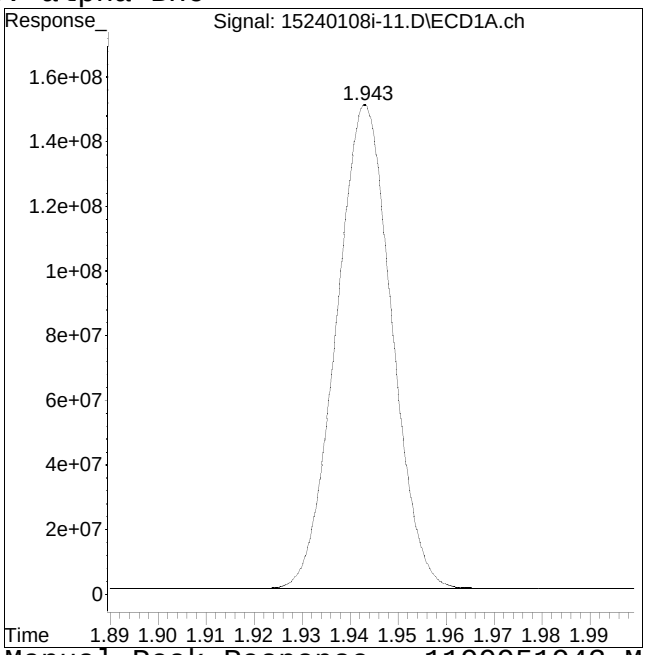
Original Peak Response = 878826902 Manual Peak Response = 876033870 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240108QMethod : P15_pest_2024_01_08_ugL_
Data File : 15240108i-11.D Operator : Pest15:akm
Date Inj'd : 1/8/2024 4:34 pm Instrument : Pest 15
Sample : il10pest,42e,,pp 11398 L0.Quant Date : 1/12/2024 9:10 am

Compound #4: alpha-BHC



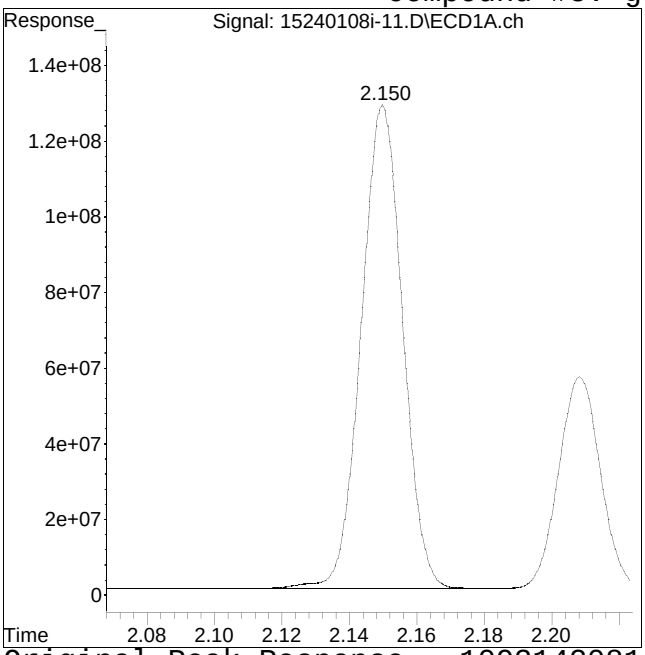


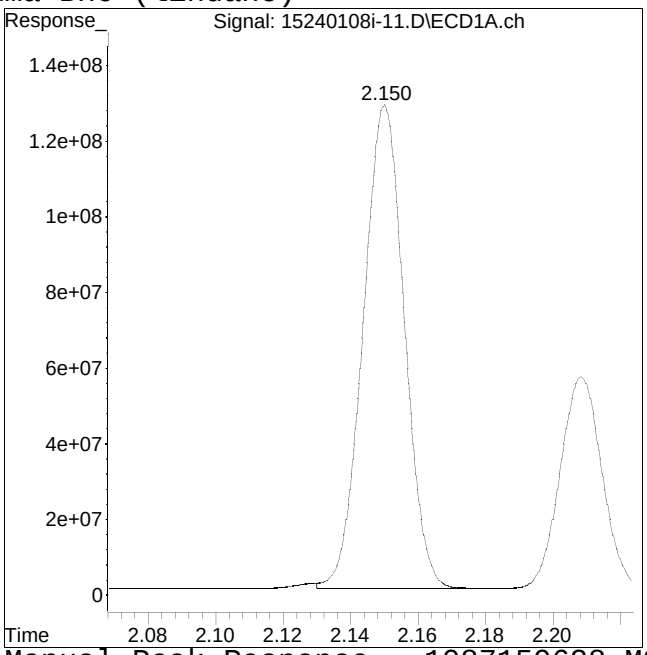
Original Peak Response = 1200925772 Manual Peak Response = 1199951943 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240108QMethod : P15_pest_2024_01_08_ugL_
Data File : 15240108i-11.D Operator : Pest15:akm
Date Inj'd : 1/8/2024 4:34 pm Instrument : Pest 15
Sample : il10pest,42e,,pp 11398 L0.Quant Date : 1/12/2024 9:10 am

Compound #5: gamma-BHC (lindane)



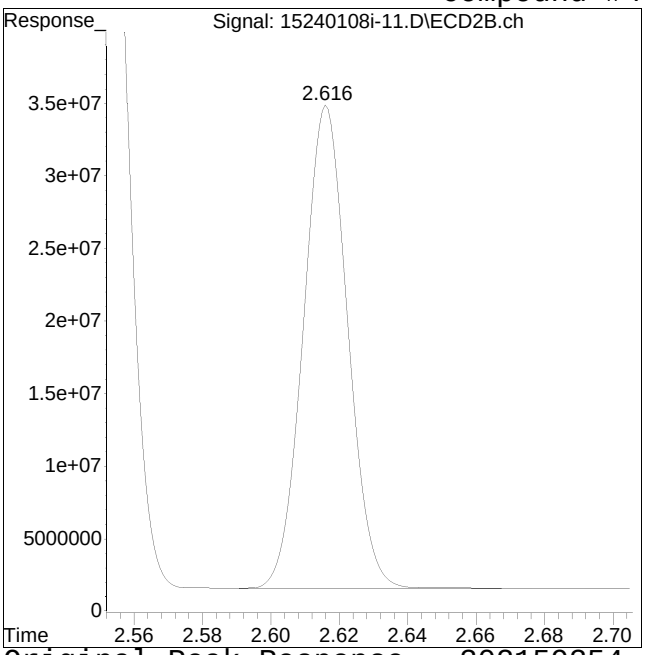


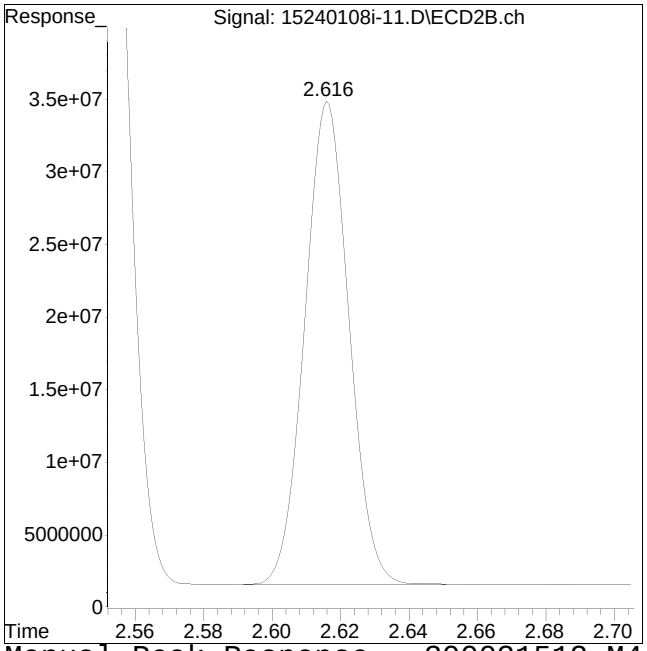
Original Peak Response = 1093142081 Manual Peak Response = 1087159628 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240108QMethod : P15_pest_2024_01_08_ugL_
Data File : 15240108i-11.D Operator : Pest15:akm
Date Inj'd : 1/8/2024 4:34 pm Instrument : Pest 15
Sample : il10pest,42e,,pp 11398 L0.Quant Date : 1/12/2024 9:10 am

Compound #44: beta-BHC #2



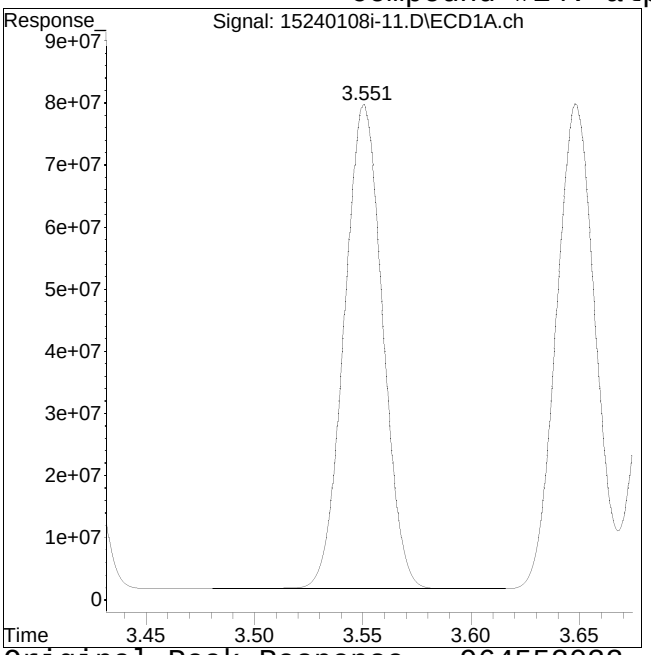


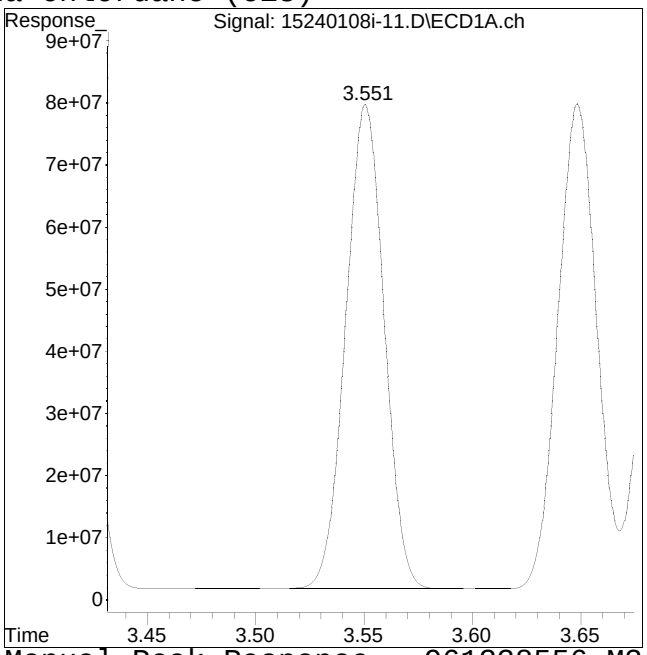
Original Peak Response = 302159354 Manual Peak Response = 300031512 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240108QMethod : P15_pest_2024_01_08_ugL_
Data File : 15240108i-11.D Operator : Pest15:akm
Date Inj'd : 1/8/2024 4:34 pm Instrument : Pest 15
Sample : il10pest,42e,,pp 11398 L0.Quant Date : 1/12/2024 9:10 am

Compound #14: alpha-Chlordane (cis)



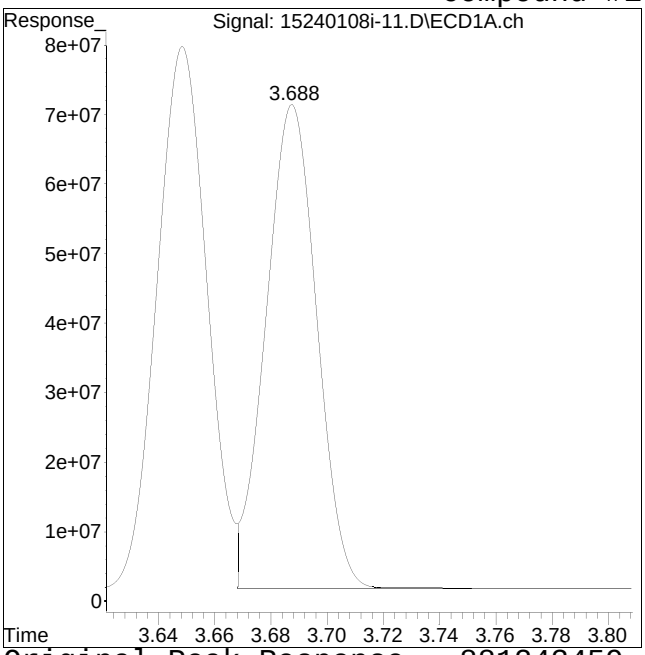


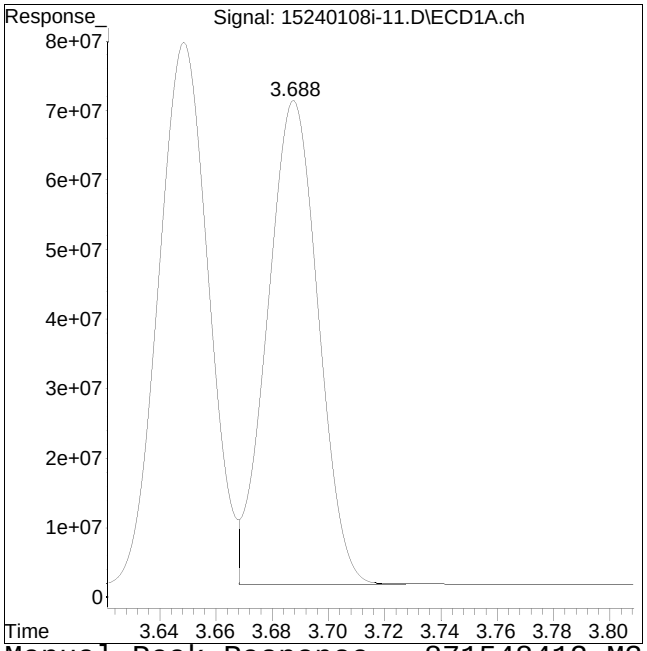
Original Peak Response = 964552032 Manual Peak Response = 961338556 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240108QMethod : P15_pest_2024_01_08_ugL_
Data File : 15240108i-11.D Operator : Pest15:akm
Date Inj'd : 1/8/2024 4:34 pm Instrument : Pest 15
Sample : il10pest,42e,,pp 11398 L0.Quant Date : 1/12/2024 9:10 am

Compound #16: Endosulfan I



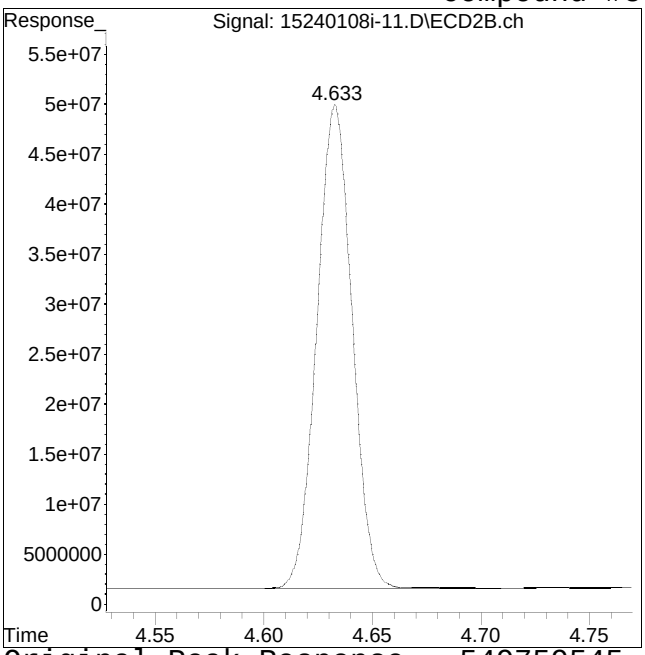


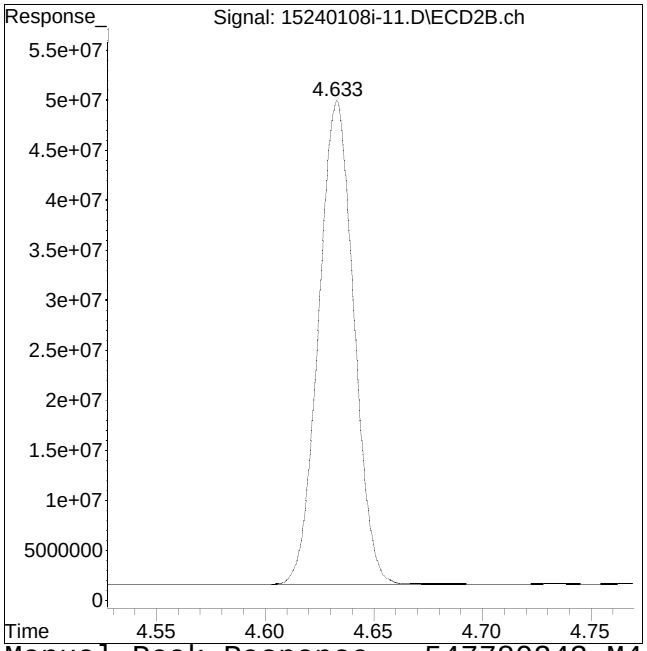
Original Peak Response = 881243459 Manual Peak Response = 871548412 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240108QMethod : P15_pest_2024_01_08_ugL_
Data File : 15240108i-11.D Operator : Pest15:akm
Date Inj'd : 1/8/2024 4:34 pm Instrument : Pest 15
Sample : il10pest,42e,,pp 11398 L0.Quant Date : 1/12/2024 9:10 am

Compound #55: Dieldrin #2



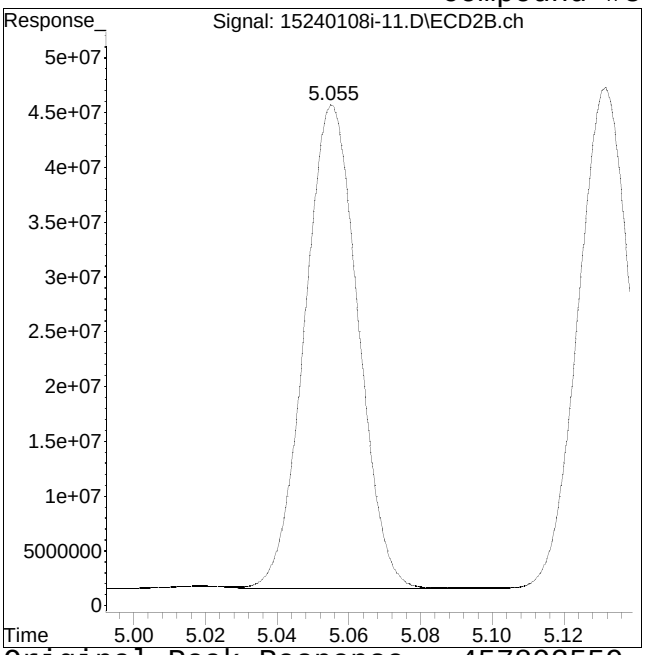


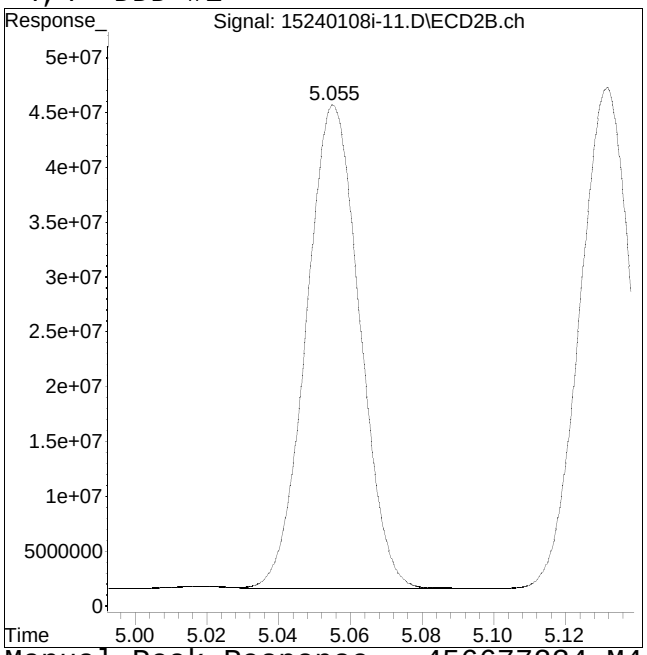
Original Peak Response = 549759545 Manual Peak Response = 547780243 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240108QMethod : P15_pest_2024_01_08_ugL_
Data File : 15240108i-11.D Operator : Pest15:akm
Date Inj'd : 1/8/2024 4:34 pm Instrument : Pest 15
Sample : il10pest,42e,,pp 11398 L0.Quant Date : 1/12/2024 9:10 am

Compound #57: 4,4'-DDD #2



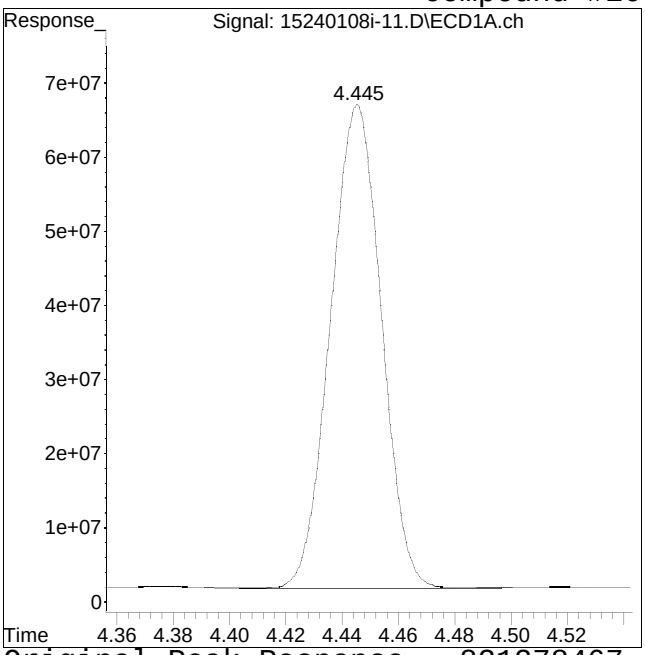


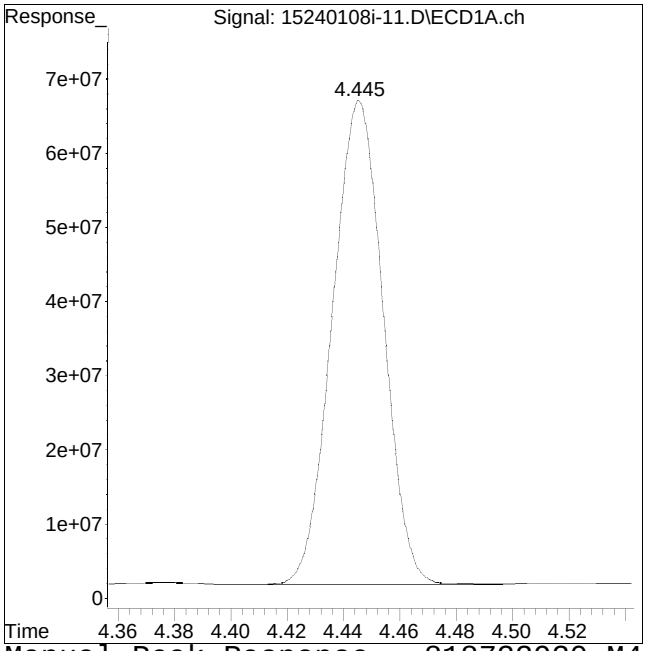
Original Peak Response = 457893559 Manual Peak Response = 456677234 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240108QMethod : P15_pest_2024_01_08_ugL_
Data File : 15240108i-11.D Operator : Pest15:akm
Date Inj'd : 1/8/2024 4:34 pm Instrument : Pest 15
Sample : il10pest,42e,,pp 11398 L0.Quant Date : 1/12/2024 9:10 am

Compound #20: Endosulfan II



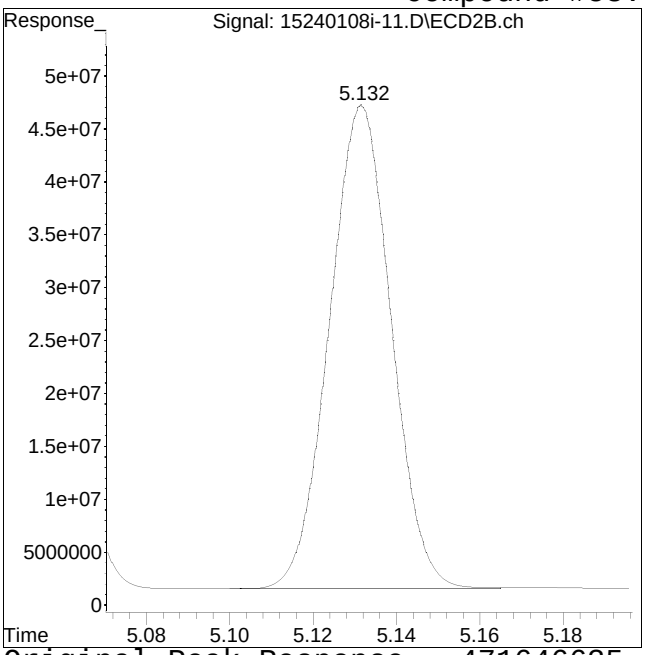


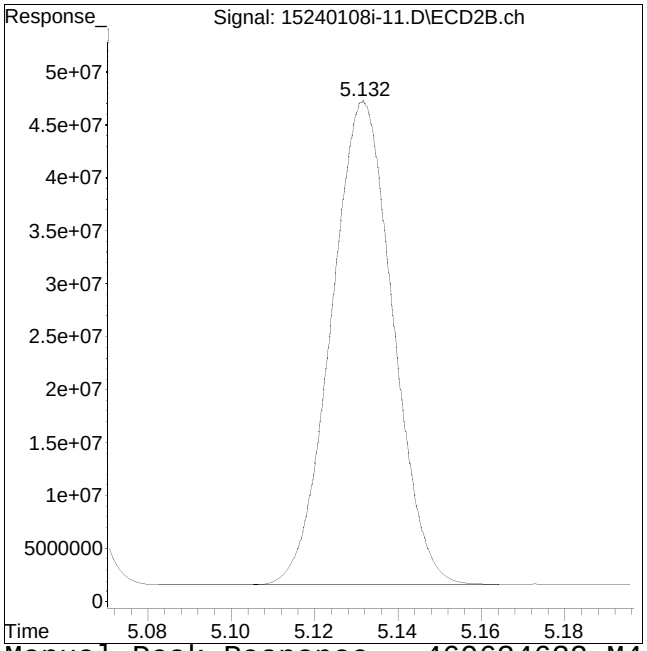
Original Peak Response = 821278467 Manual Peak Response = 818733930 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240108QMethod : P15_pest_2024_01_08_ugL_
Data File : 15240108i-11.D Operator : Pest15:akm
Date Inj'd : 1/8/2024 4:34 pm Instrument : Pest 15
Sample : il10pest,42e,,pp 11398 L0.Quant Date : 1/12/2024 9:10 am

Compound #58: Endosulfan II #2



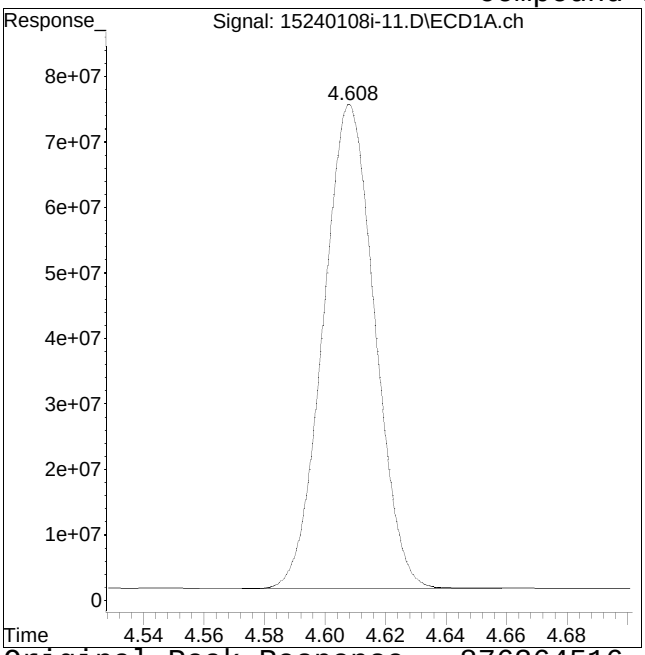


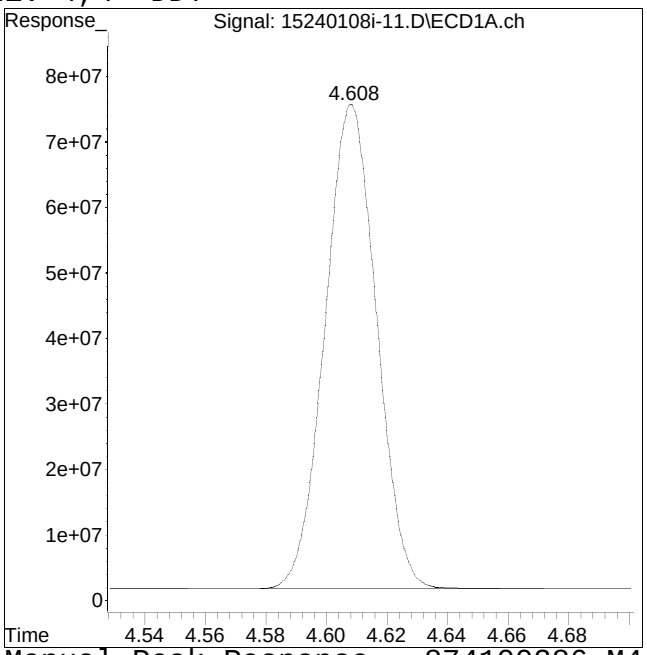
Original Peak Response = 471646635 Manual Peak Response = 469634632 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240108QMethod : P15_pest_2024_01_08_ugL_
Data File : 15240108i-11.D Operator : Pest15:akm
Date Inj'd : 1/8/2024 4:34 pm Instrument : Pest 15
Sample : il10pest,42e,,pp 11398 L0.Quant Date : 1/12/2024 9:10 am

Compound #21: 4,4'-DDT



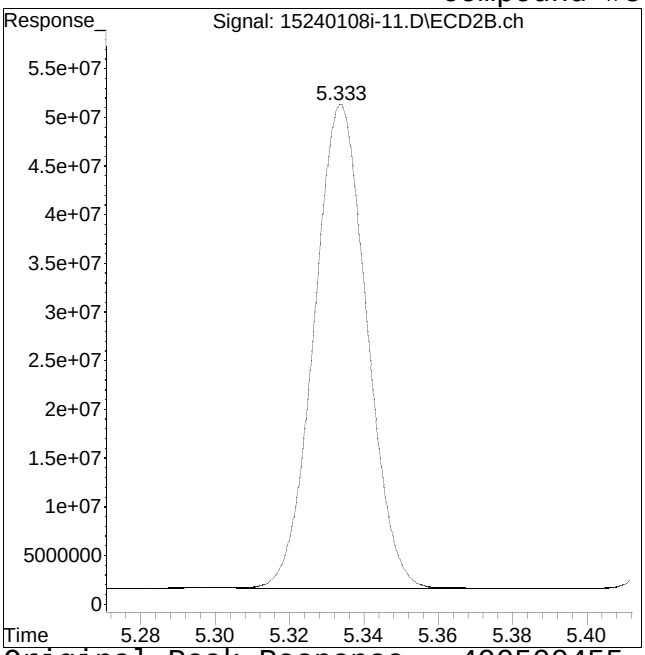


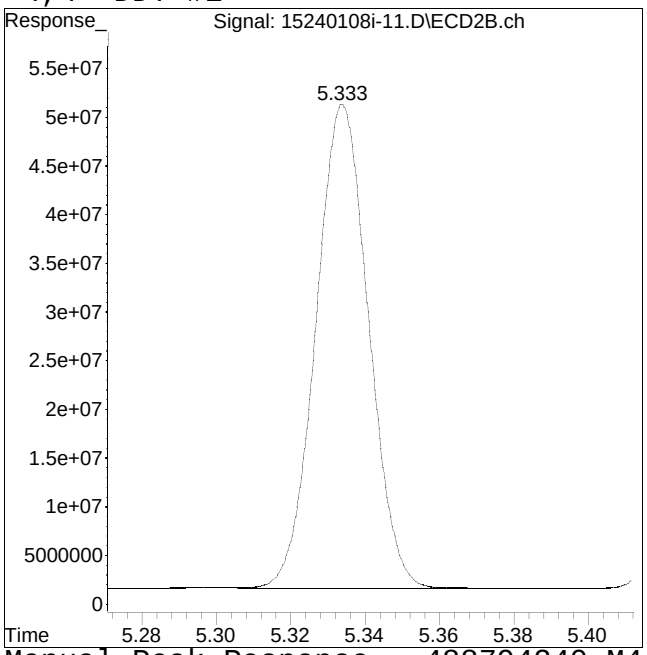
Original Peak Response = 876364516 Manual Peak Response = 874100286 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240108QMethod : P15_pest_2024_01_08_ugL_
Data File : 15240108i-11.D Operator : Pest15:akm
Date Inj'd : 1/8/2024 4:34 pm Instrument : Pest 15
Sample : il10pest,42e,,pp 11398 L0.Quant Date : 1/12/2024 9:10 am

Compound #59: 4,4'-DDT #2



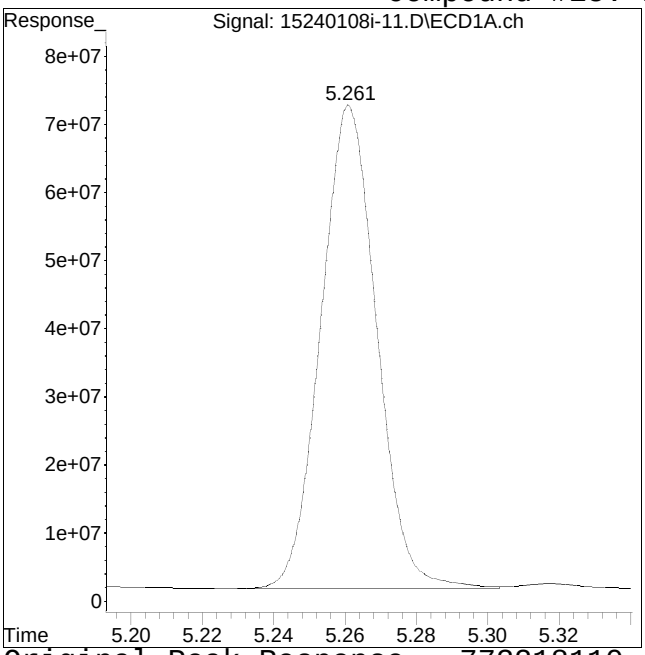


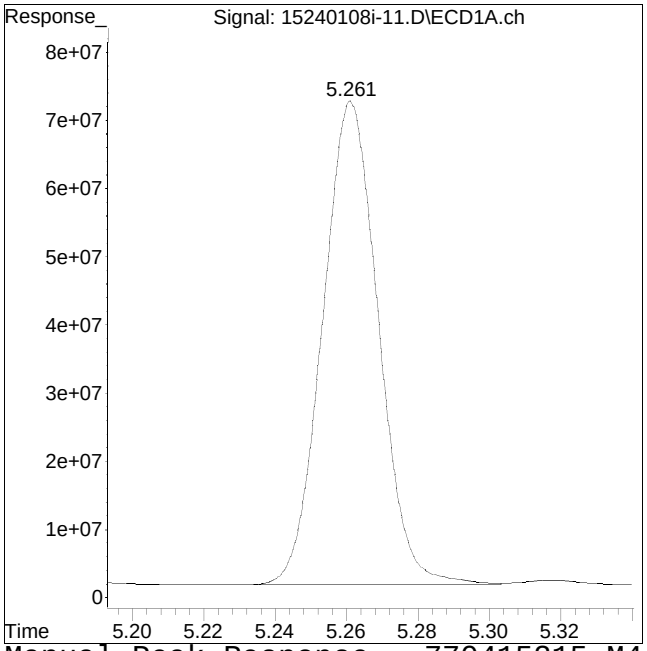
Original Peak Response = 490500455 Manual Peak Response = 488794240 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240108QMethod : P15_pest_2024_01_08_ugL_
Data File : 15240108i-11.D Operator : Pest15:akm
Date Inj'd : 1/8/2024 4:34 pm Instrument : Pest 15
Sample : il10pest,42e,,pp 11398 L0.Quant Date : 1/12/2024 9:10 am

Compound #25: Endosulfan Sulfate



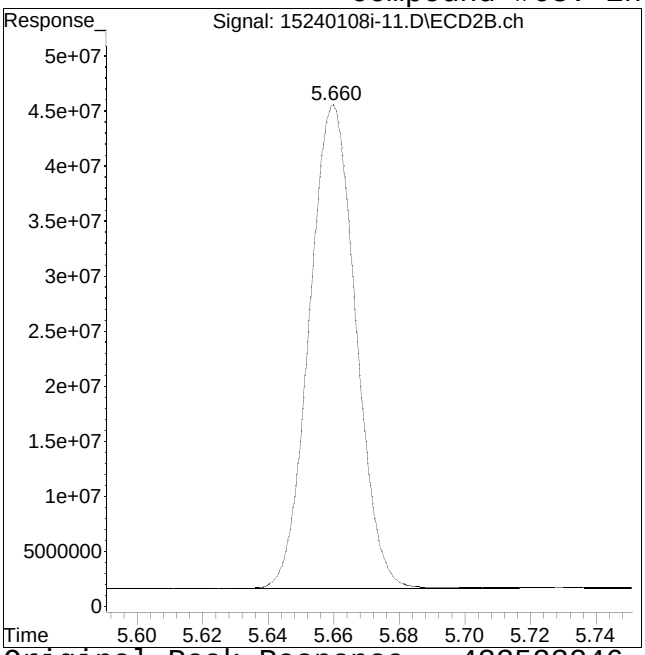


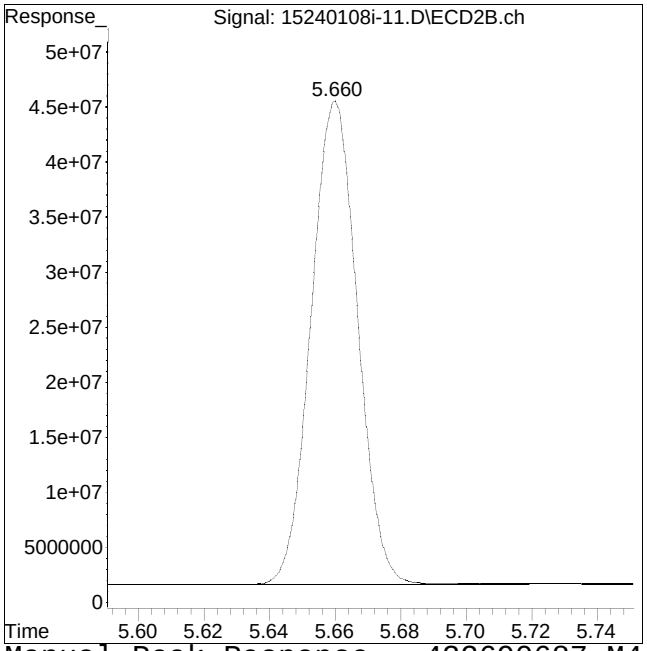
Original Peak Response = 773218110 Manual Peak Response = 770415215 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240108QMethod : P15_pest_2024_01_08_ugL_
Data File : 15240108i-11.D Operator : Pest15:akm
Date Inj'd : 1/8/2024 4:34 pm Instrument : Pest 15
Sample : il10pest,42e,,pp 11398 L0.Quant Date : 1/12/2024 9:10 am

Compound #63: Endosulfan Sulfate #2



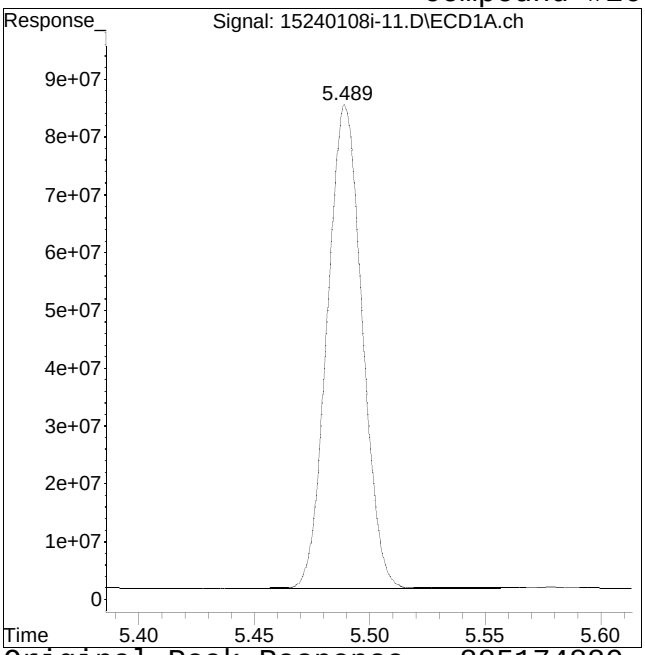


Original Peak Response = 433523246 Manual Peak Response = 432690687 M4
M4 = Poor automated baseline construction.

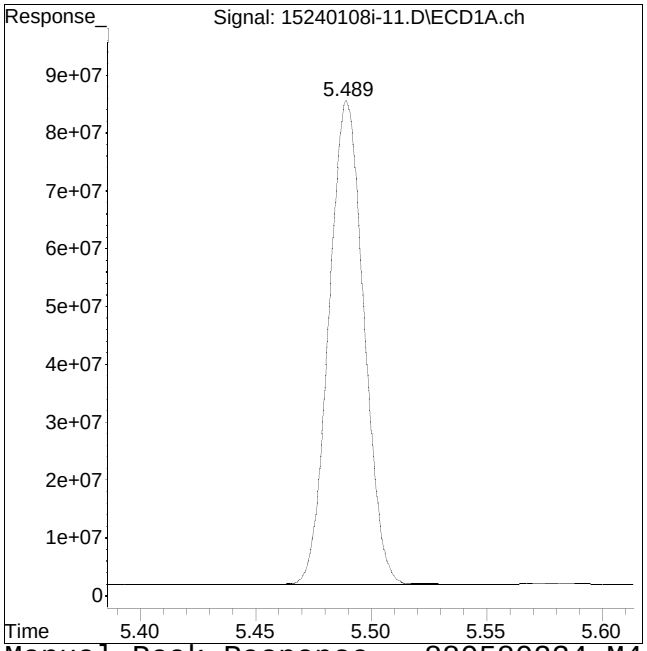
Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240108QMethod : P15_pest_2024_01_08_ugL_
Data File : 15240108i-11.D Operator : Pest15:akm
Date Inj'd : 1/8/2024 4:34 pm Instrument : Pest 15
Sample : il10pest,42e,,pp 11398 L0.Quant Date : 1/12/2024 9:10 am

Compound #26: Endrin Ketone



Original Peak Response = 885174880



Manual Peak Response = 880580234 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest15\2024\240108ical\
Data File : 15240108i-12.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 8 Jan 2024 4:46 pm
Operator : Pest15:akm
Sample : il11pest,42e,,pp 11397 L0.4
Misc : WG1874875, (Sig #1); ical (Sig #2)
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Jan 15 13:06:22 2024
Quant Method : I:\PEST\Pest15\2024\240108ical\P15_pest_2024_01_08_ugL_ICAL.m
Quant Title : pest
QLast Update : Fri Jan 12 09:17:14 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	1.249	1.331	108.7E6	68480116	25.000	25.000
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.620	1.835	1549.8E6	1042.1E6	358.684	378.309
	Spiked Amount 50.000	Range 30 - 150		Recovery =		717.37%#	756.62%#
27) s	Decachlorobi	6.297	6.941	1399.2E6	763.4E6	345.974	369.576
	Spiked Amount 50.000	Range 30 - 150		Recovery =		691.95%#	739.15%#
	Target Compounds						
3)	Hexachlorobe	1.841	2.163	1647.4E6	1073.3E6	361.241M3	379.121
4)	alpha-BHC	1.943	2.262	2291.1E6	1465.9E6	374.607M4	395.507
5)	gamma-BHC (l	2.150	2.551	2066.9E6	1311.6E6	369.445M3	392.479
6)	beta-BHC	2.209	2.616	918.5E6	574.6E6	368.324	384.160M3
7)	delta-BHC	2.339	2.886	2139.6E6	1353.9E6	377.265	398.009
8)	Heptachlor	2.502	2.951	1859.0E6	1153.3E6	348.958	376.234
9)	Aldrin	2.746	3.271	1811.2E6	1149.7E6	355.138	385.443M4
10)	Alachlor	2.870	3.156	250.1E6	217.3E6	327.734	349.691
11)	Chlorpyrifos	2.962	3.511	759.5E6	461.1E6	330.503	348.271
12)	Heptachlor E	3.293	3.889	1682.1E6	1045.6E6	350.556M4	376.792
13)	gamma-Chlord	3.417	4.109	1610.2E6	979.3E6	365.159M4	391.307
14)	alpha-Chlord	3.552	4.280	1791.8E6	1079.5E6	361.138M3	386.449
15)	4,4'-DDE	3.649	4.477	1774.1E6	1118.2E6	357.338	386.940
16)	Endosulfan I	3.687	4.340	1608.8E6	983.1E6	353.594M4	378.295
17)	Dieldrin	3.949	4.633	1751.1E6	1037.5E6	360.447	384.260
18)	Endrin	4.204	4.932	1777.5E6	1011.3E6	357.441	375.733
19)	4,4'-DDD	4.315	5.056	1487.7E6	872.6E6	362.409	388.775M3
20)	Endosulfan I	4.446	5.132	1465.5E6	862.8E6	341.929M4	366.402
21)	4,4'-DDT	4.609	5.334	1654.7E6	930.4E6	365.160	381.979M4
22)	Endrin Aldeh	4.866	5.430	1287.7E6	759.2E6	359.478	382.426M4
23)	Methoxychlor	5.102	5.903	815.8E6	449.9E6	340.539	364.275M3

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest15\2024\240108ical\
Data File : 15240108i-12.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 8 Jan 2024 4:46 pm
Operator : Pest15:akm
Sample : il11pest,42e,,pp 11397 L0.4
Misc : WG1874875, (Sig #1); ical (Sig #2)
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Jan 15 13:06:22 2024
Quant Method : I:\PEST\Pest15\2024\240108ical\P15_pest_2024_01_08_ugL_ICAL.m
Quant Title : pest
QLast Update : Fri Jan 12 09:17:14 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
24)	Mirex	5.155	6.039	1317.6E6	700.5E6	353.736M4	371.482M4
25)	Endosulfan S	5.263	5.660	1430.2E6	817.4E6	355.473	377.498M4
26)	Endrin Keton	5.490	6.075	1608.0E6	925.4E6	346.197M4	369.524M4
29) l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

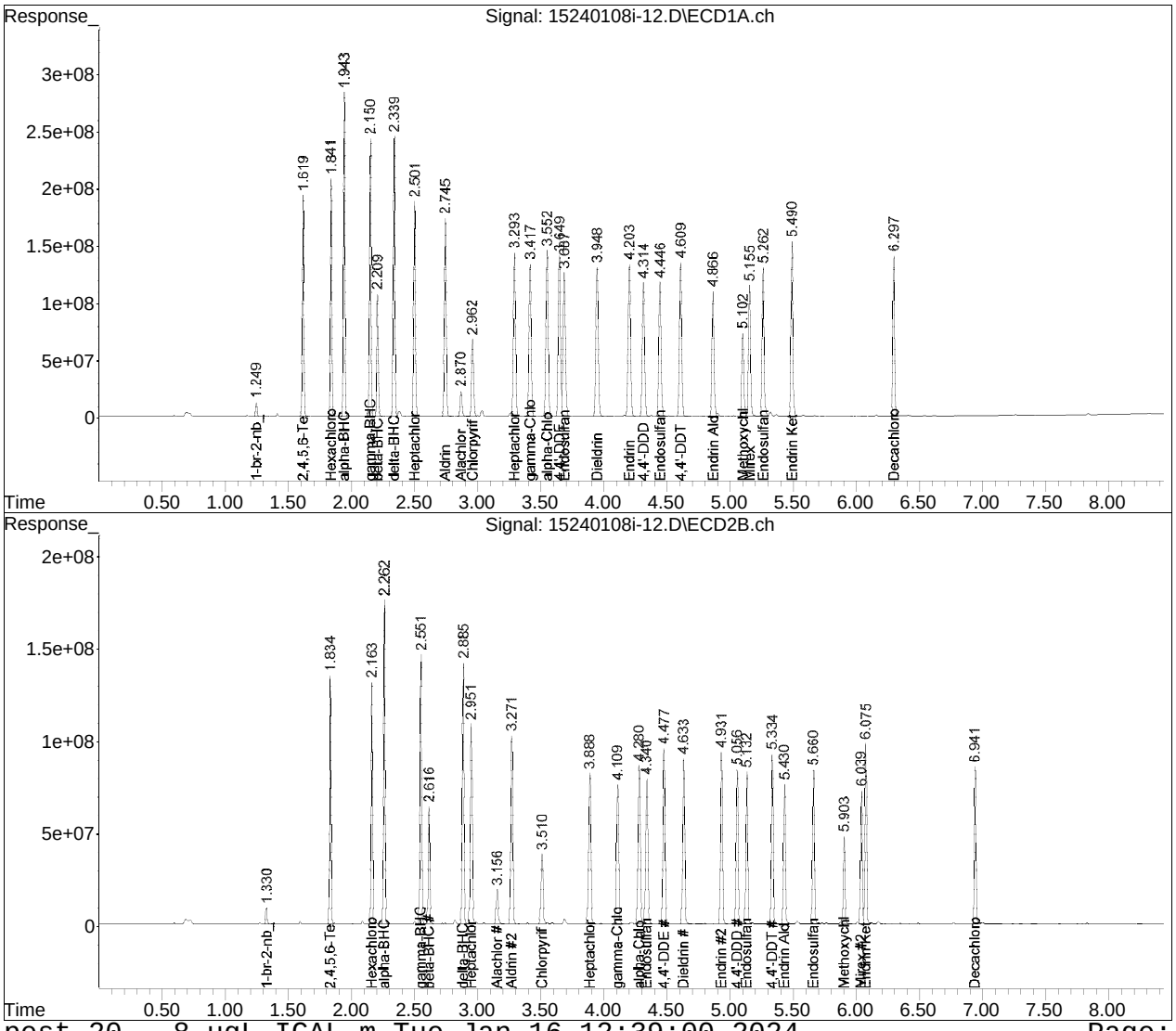
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest15\2024\240108ical\
Data File : 15240108i-12.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 8 Jan 2024 4:46 pm
Operator : Pest15:akm
Sample : il11pest,42e,,pp 11397 L0.4
Misc : WG1874875, (Sig #1); ical (Sig #2)
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Jan 15 13:06:22 2024
Quant Method : I:\PEST\Pest15\2024\240108ical\P15_pest_2024_01_08_ugL_ICAL.m
Quant Title : pest
QLast Update : Fri Jan 12 09:17:14 2024
Response via : Initial Calibration
Integrator: ChemStation

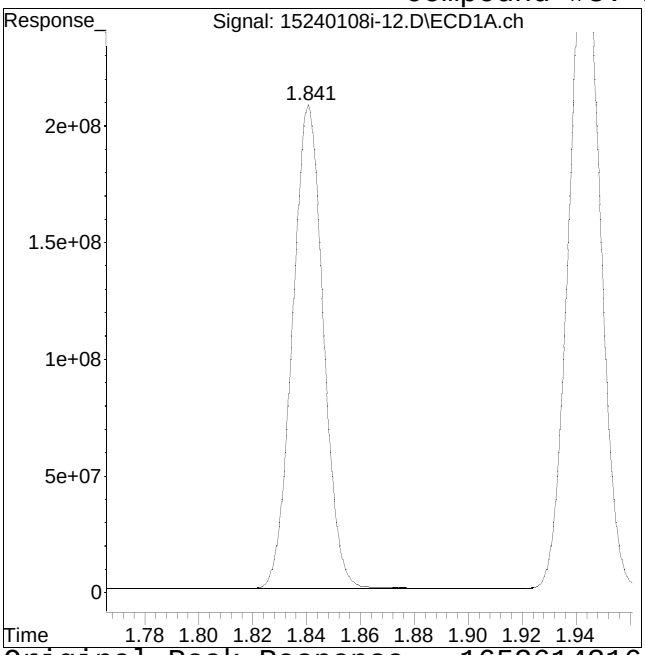
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

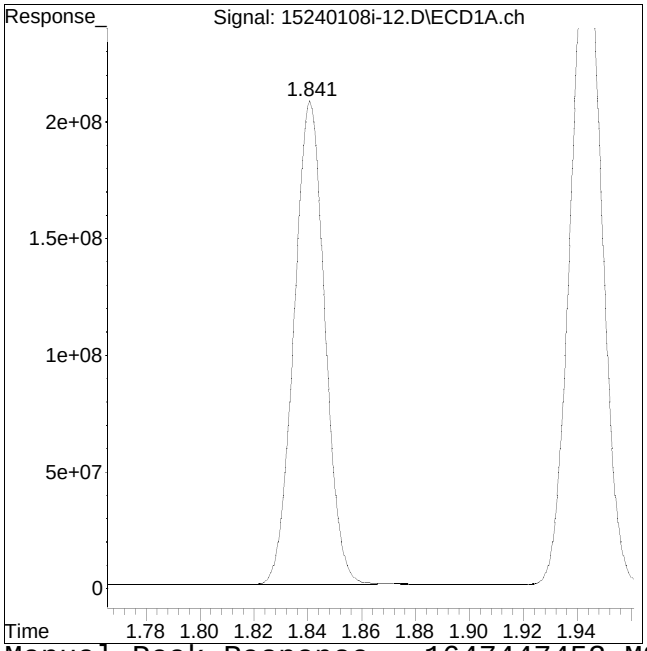


Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240108Q
Data File : 15240108i-12.D
Date Inj'd : 1/8/2024 4:46 pm
Sample : il11pest,42e,,pp 11397 L0.
Method : P15_pest_2024_01_08_ugL_
Operator : Pest15:akm
Instrument : Pest 15
Quant Date : 1/12/2024 9:18 am

Compound #3: Hexachlorobenzene



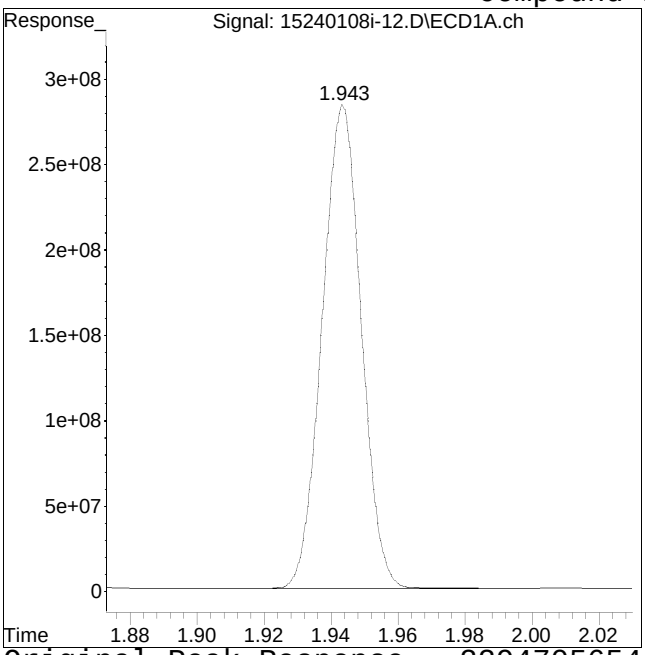


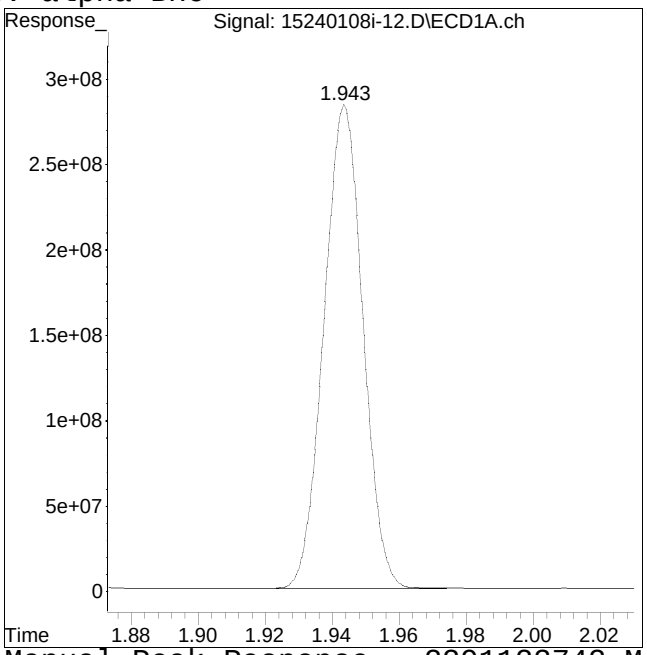
Original Peak Response = 1653614316 Manual Peak Response = 1647447453 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240108QMethod : P15_pest_2024_01_08_ugL_
Data File : 15240108i-12.D Operator : Pest15:akm
Date Inj'd : 1/8/2024 4:46 pm Instrument : Pest 15
Sample : il11pest,42e,,pp 11397 L0.Quant Date : 1/12/2024 9:18 am

Compound #4: alpha-BHC



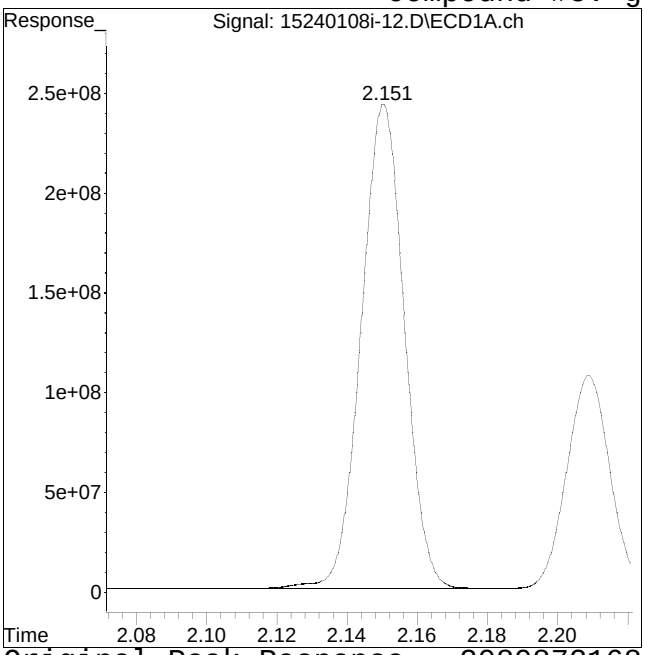


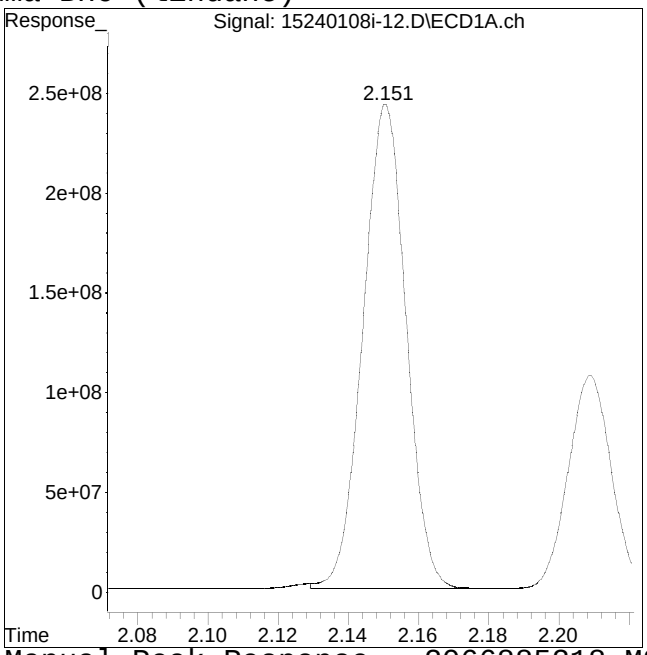
Original Peak Response = 2294705654 Manual Peak Response = 2291123742 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240108QMethod : P15_pest_2024_01_08_ugL_
Data File : 15240108i-12.D Operator : Pest15:akm
Date Inj'd : 1/8/2024 4:46 pm Instrument : Pest 15
Sample : il11pest,42e,,pp 11397 L0.Quant Date : 1/12/2024 9:18 am

Compound #5: gamma-BHC (lindane)



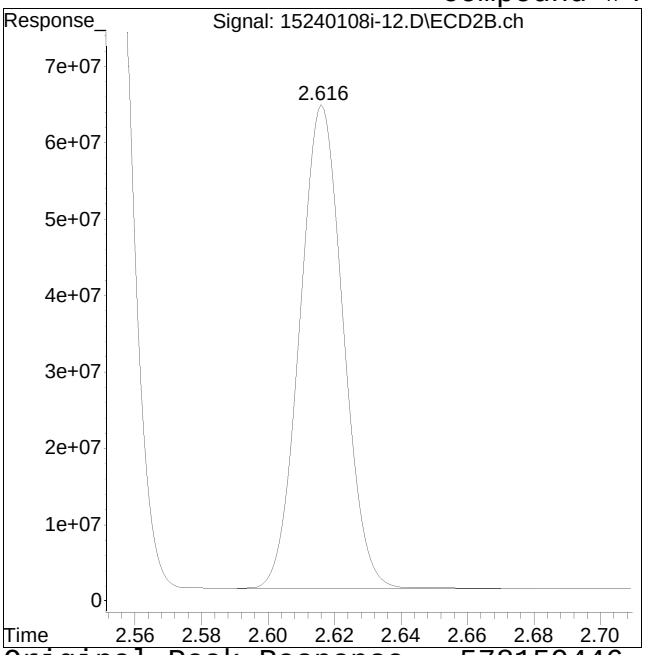


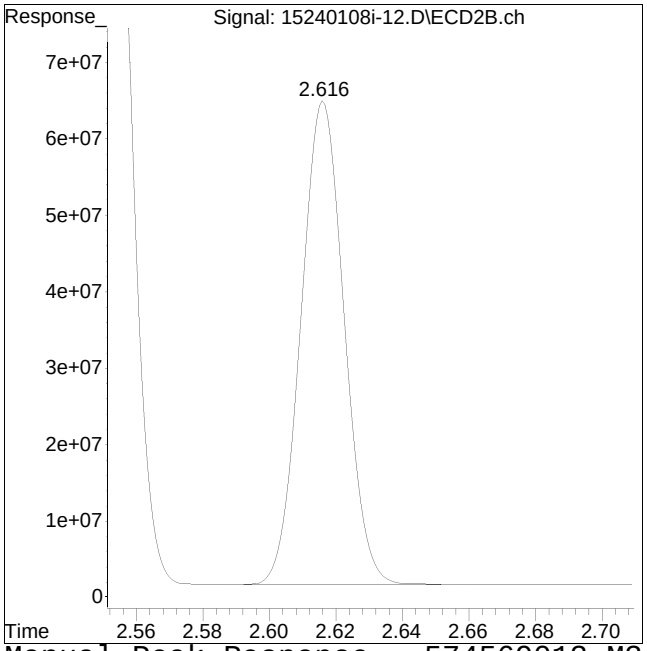
Original Peak Response = 2080872168 Manual Peak Response = 2066885218 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240108QMethod : P15_pest_2024_01_08_ugL_
Data File : 15240108i-12.D Operator : Pest15:akm
Date Inj'd : 1/8/2024 4:46 pm Instrument : Pest 15
Sample : il11pest,42e,,pp 11397 L0.Quant Date : 1/12/2024 9:18 am

Compound #44: beta-BHC #2



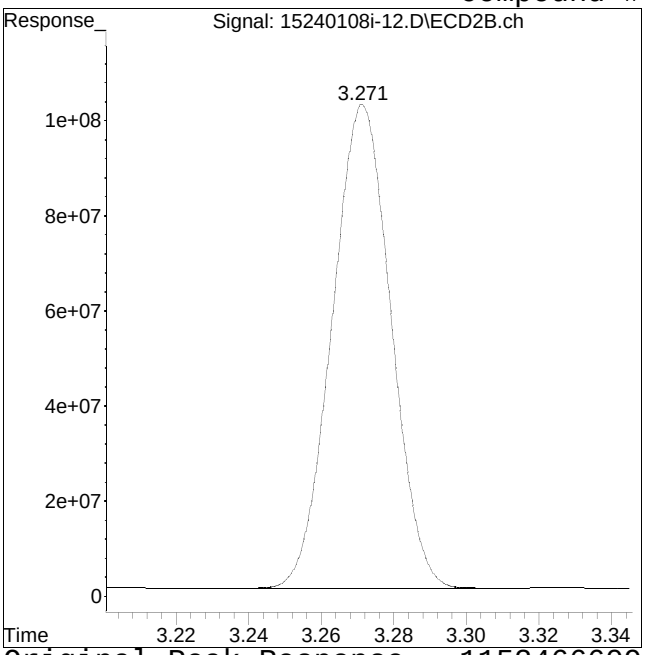


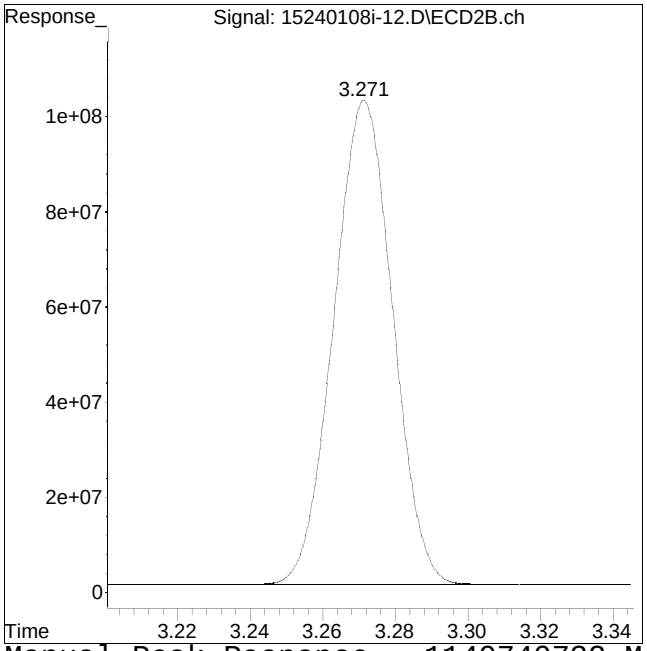
Original Peak Response = 578159446 Manual Peak Response = 574569013 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240108QMethod : P15_pest_2024_01_08_ugL_
Data File : 15240108i-12.D Operator : Pest15:akm
Date Inj'd : 1/8/2024 4:46 pm Instrument : Pest 15
Sample : il11pest,42e,,pp 11397 L0.Quant Date : 1/12/2024 9:18 am

Compound #47: Aldrin #2



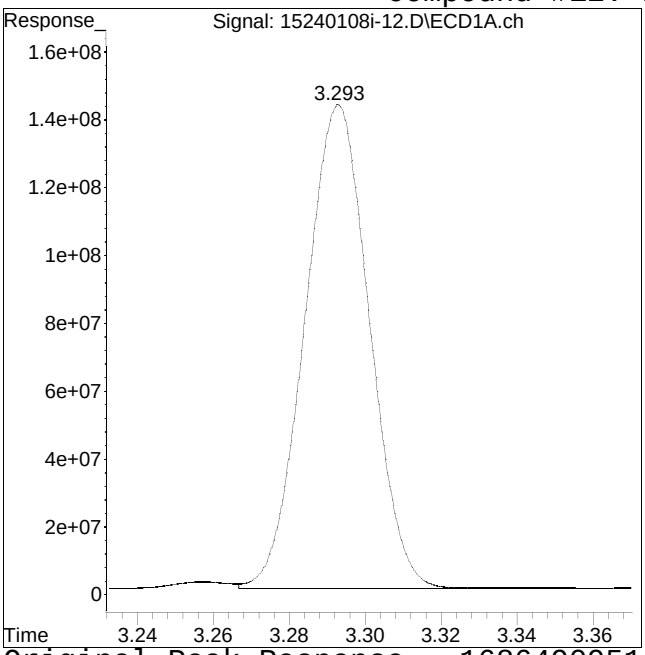


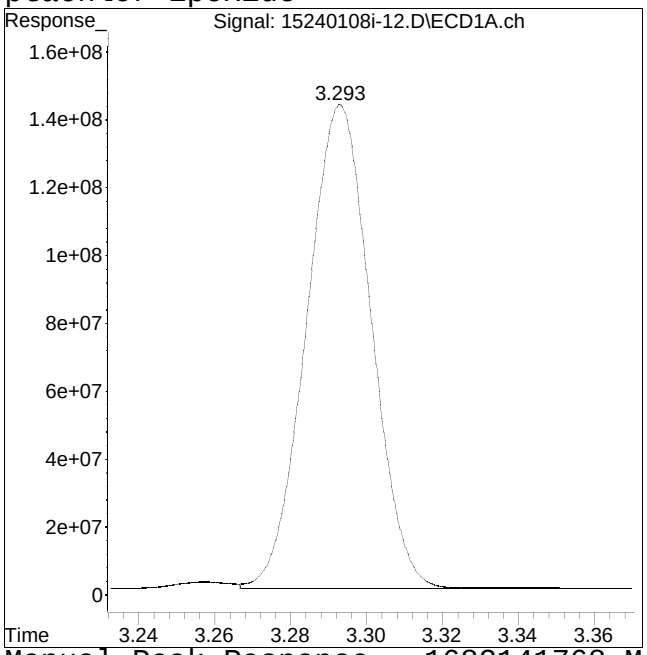
Original Peak Response = 1152466609 Manual Peak Response = 1149740732 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240108QMethod : P15_pest_2024_01_08_ugL_
Data File : 15240108i-12.D Operator : Pest15:akm
Date Inj'd : 1/8/2024 4:46 pm Instrument : Pest 15
Sample : il11pest,42e,,pp 11397 L0.Quant Date : 1/12/2024 9:18 am

Compound #12: Heptachlor Epoxide



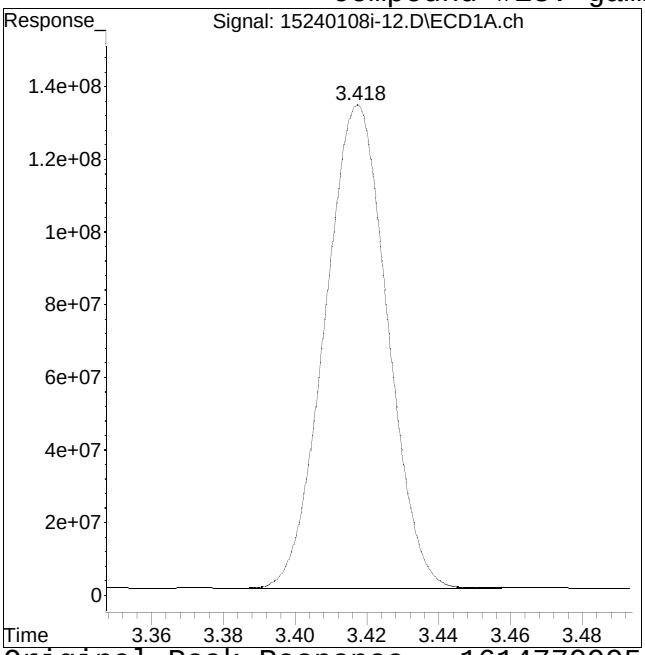


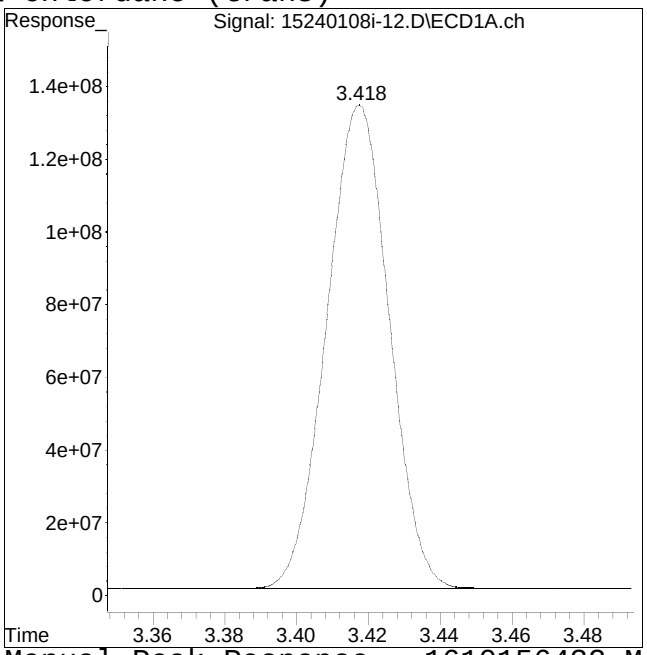
Original Peak Response = 1686490951 Manual Peak Response = 1682141768 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240108QMethod : P15_pest_2024_01_08_ugL_
Data File : 15240108i-12.D Operator : Pest15:akm
Date Inj'd : 1/8/2024 4:46 pm Instrument : Pest 15
Sample : il11pest,42e,,pp 11397 L0.Quant Date : 1/12/2024 9:18 am

Compound #13: gamma-Chlordane (trans)



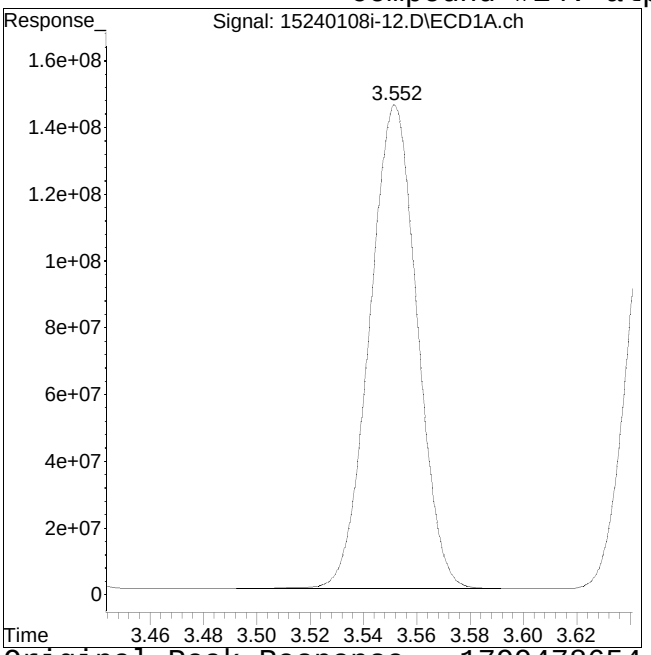


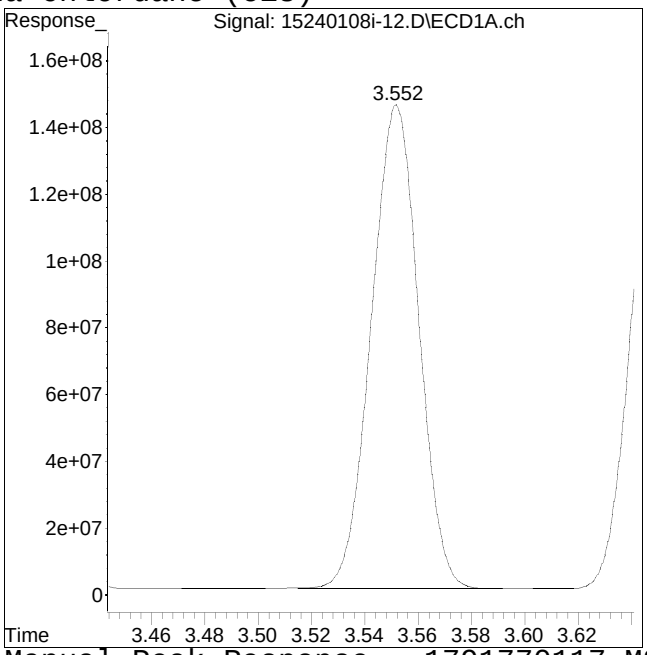
Original Peak Response = 1614779995 Manual Peak Response = 1610156432 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240108QMethod : P15_pest_2024_01_08_ugL_
Data File : 15240108i-12.D Operator : Pest15:akm
Date Inj'd : 1/8/2024 4:46 pm Instrument : Pest 15
Sample : il11pest,42e,,pp 11397 L0.Quant Date : 1/12/2024 9:18 am

Compound #14: alpha-Chlordane (cis)



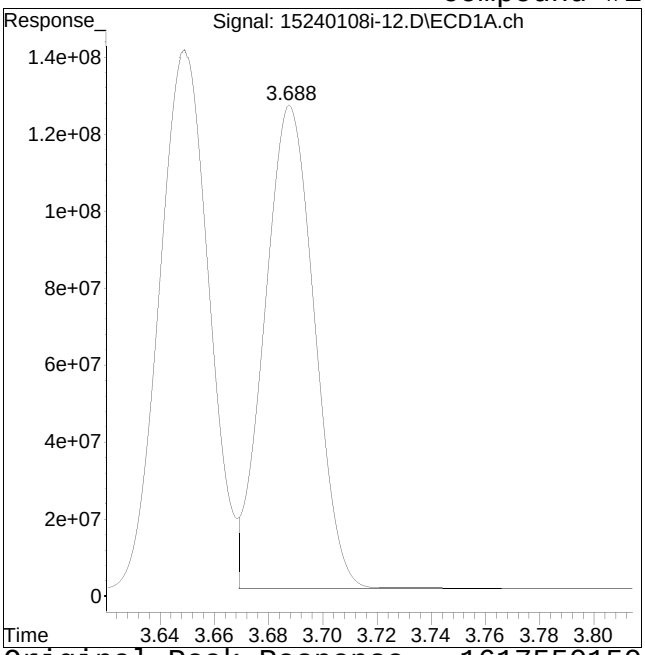


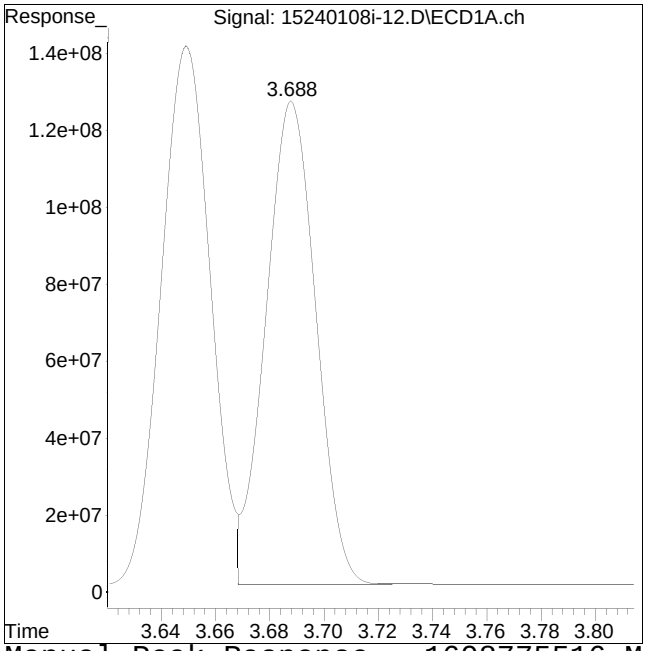
Original Peak Response = 1799478654 Manual Peak Response = 1791770117 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240108QMethod : P15_pest_2024_01_08_ugL_
Data File : 15240108i-12.D Operator : Pest15:akm
Date Inj'd : 1/8/2024 4:46 pm Instrument : Pest 15
Sample : il11pest,42e,,pp 11397 L0.Quant Date : 1/12/2024 9:18 am

Compound #16: Endosulfan I



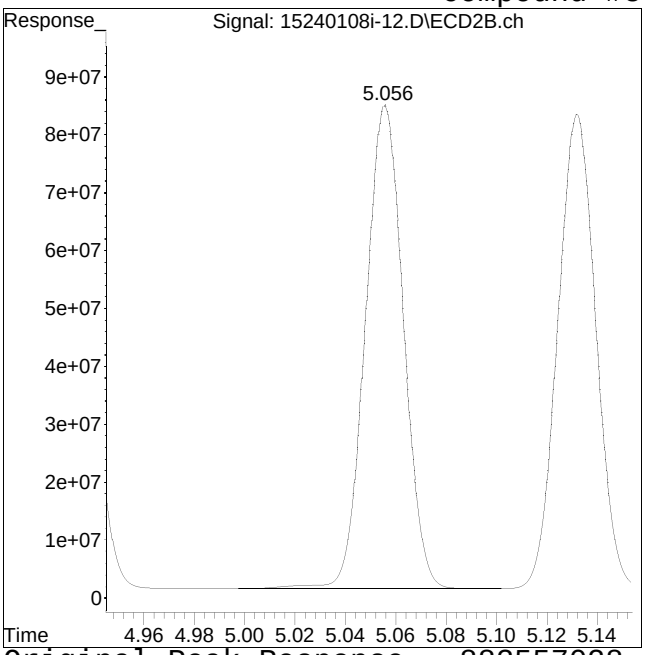


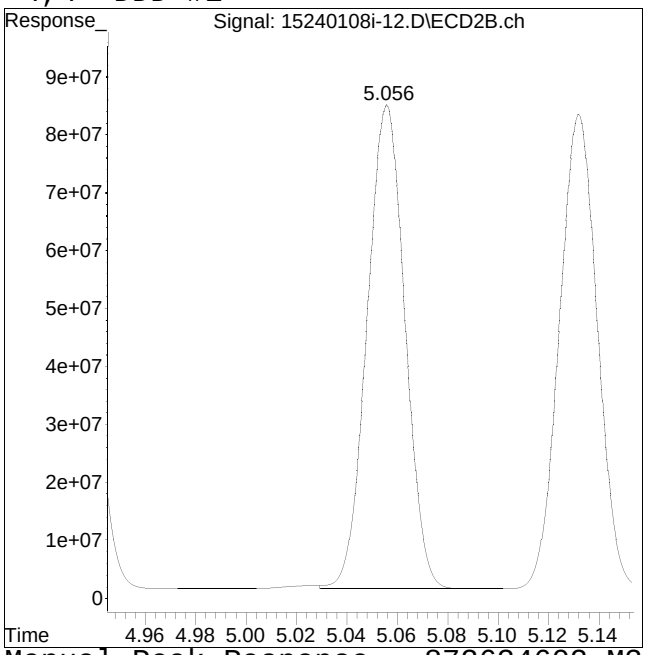
Original Peak Response = 1617550150 Manual Peak Response = 1608775516 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240108QMethod : P15_pest_2024_01_08_ugL_
Data File : 15240108i-12.D Operator : Pest15:akm
Date Inj'd : 1/8/2024 4:46 pm Instrument : Pest 15
Sample : il11pest,42e,,pp 11397 L0.Quant Date : 1/12/2024 9:18 am

Compound #57: 4,4'-DDD #2



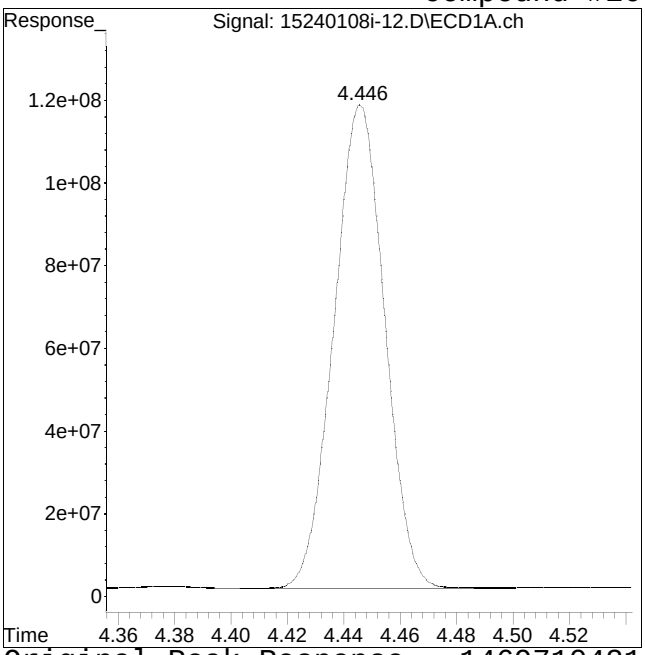


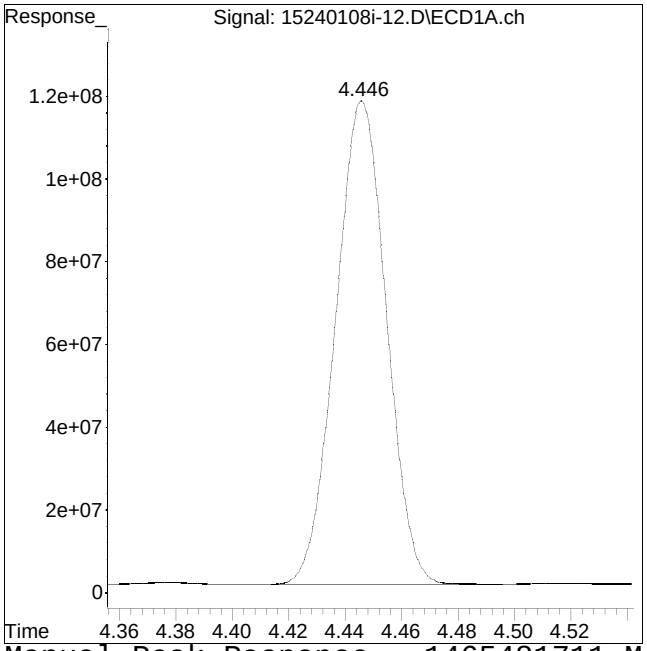
Original Peak Response = 883557028 Manual Peak Response = 872634602 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240108QMethod : P15_pest_2024_01_08_ugL_
Data File : 15240108i-12.D Operator : Pest15:akm
Date Inj'd : 1/8/2024 4:46 pm Instrument : Pest 15
Sample : il11pest,42e,,pp 11397 L0.Quant Date : 1/12/2024 9:18 am

Compound #20: Endosulfan II



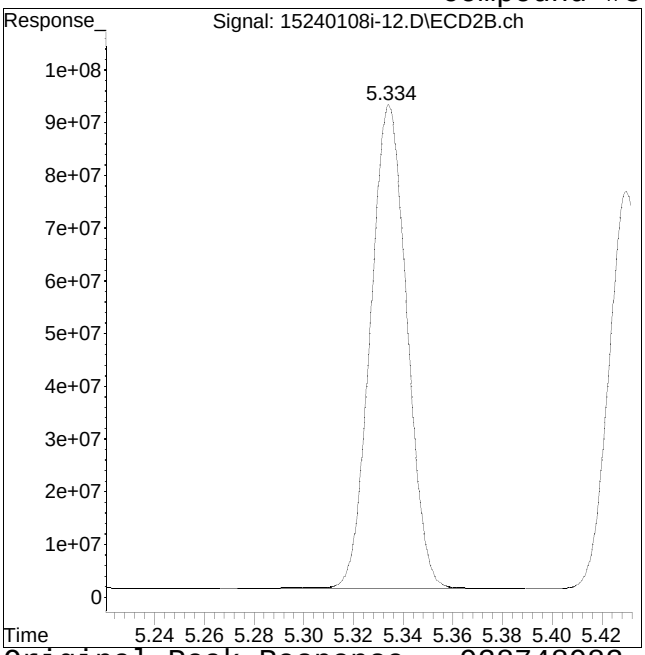


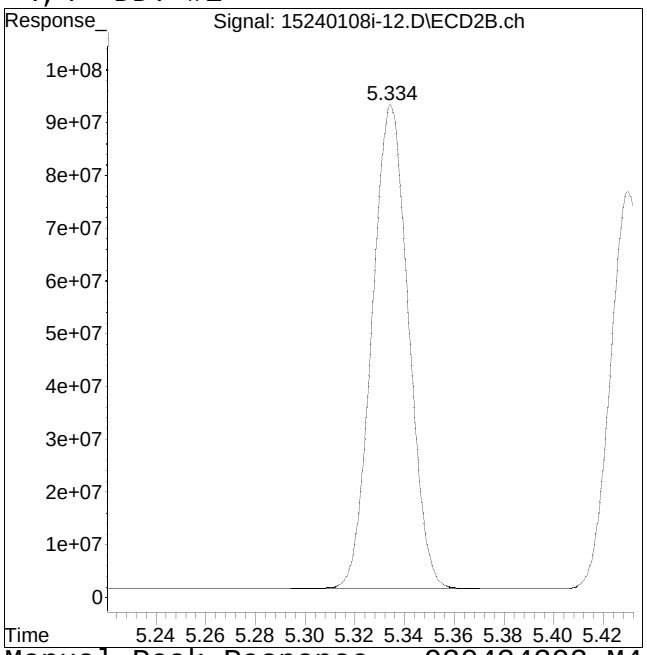
Original Peak Response = 1469710421 Manual Peak Response = 1465481711 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240108QMethod : P15_pest_2024_01_08_ugL_
Data File : 15240108i-12.D Operator : Pest15:akm
Date Inj'd : 1/8/2024 4:46 pm Instrument : Pest 15
Sample : il11pest,42e,,pp 11397 L0.Quant Date : 1/12/2024 9:18 am

Compound #59: 4,4'-DDT #2



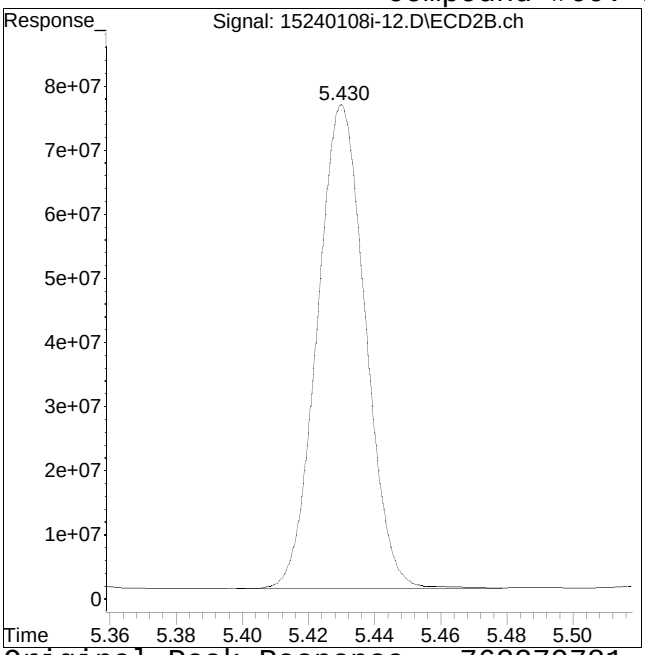


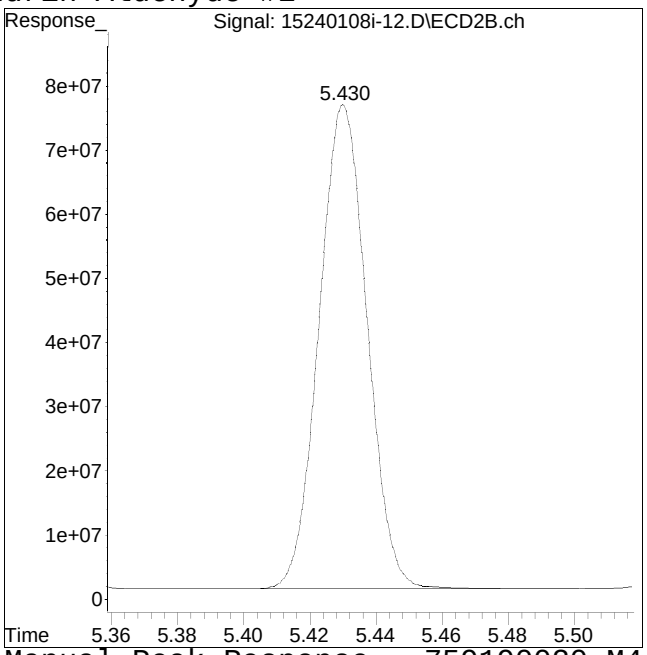
Original Peak Response = 938748983 Manual Peak Response = 930434392 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240108QMethod : P15_pest_2024_01_08_ugL_
Data File : 15240108i-12.D Operator : Pest15:akm
Date Inj'd : 1/8/2024 4:46 pm Instrument : Pest 15
Sample : il11pest,42e,,pp 11397 L0.Quant Date : 1/12/2024 9:18 am

Compound #60: Endrin Aldehyde #2



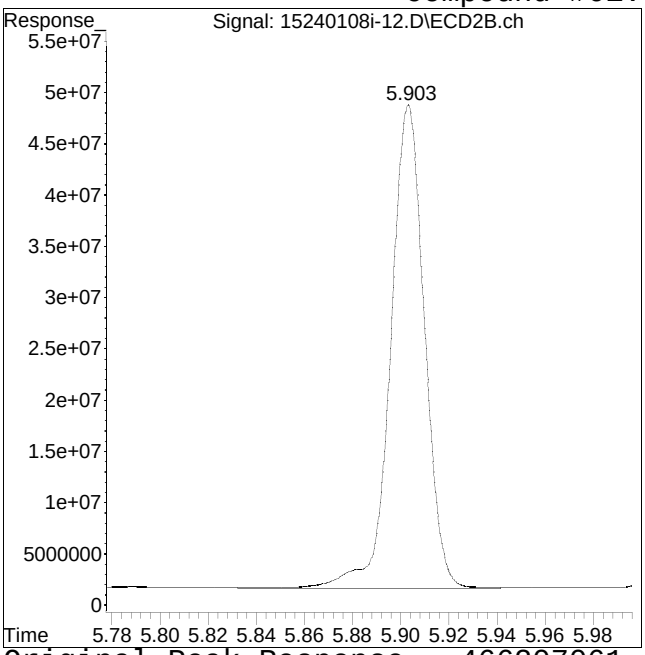


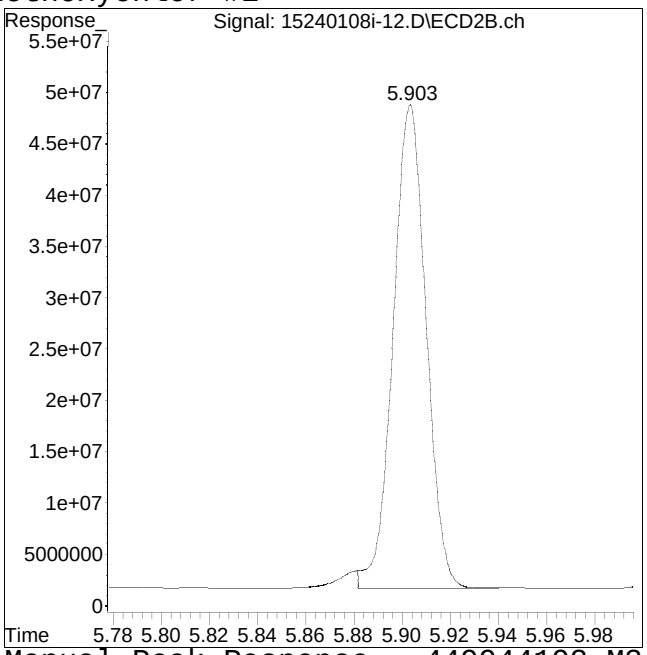
Original Peak Response = 763279781 Manual Peak Response = 759190020 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240108QMethod : P15_pest_2024_01_08_ugL_
Data File : 15240108i-12.D Operator : Pest15:akm
Date Inj'd : 1/8/2024 4:46 pm Instrument : Pest 15
Sample : il11pest,42e,,pp 11397 L0.Quant Date : 1/12/2024 9:18 am

Compound #61: Methoxychlor #2



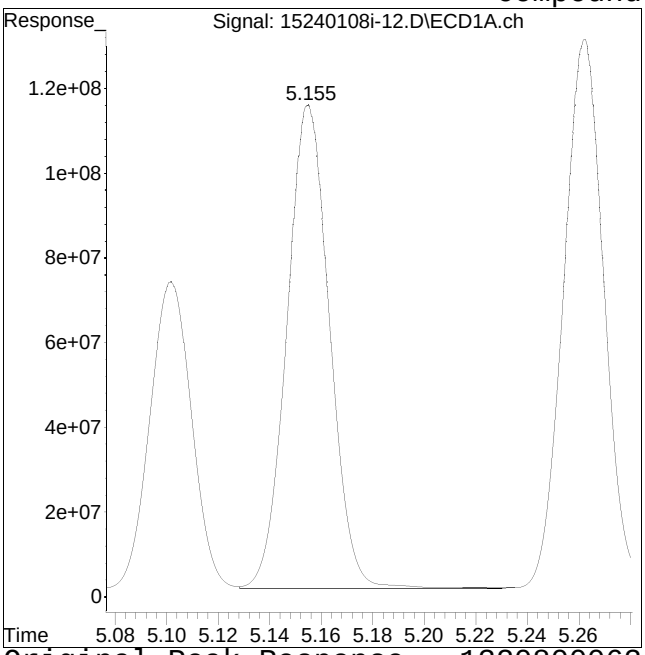


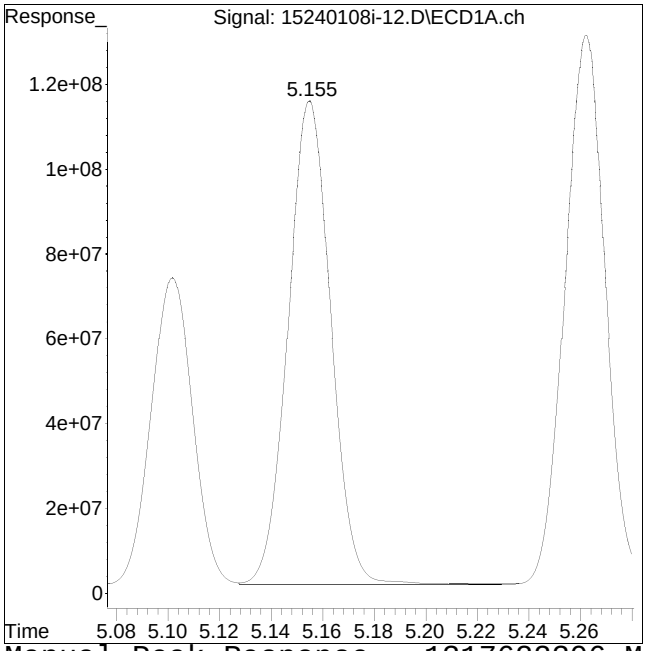
Original Peak Response = 466207061 Manual Peak Response = 449944192 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240108QMethod : P15_pest_2024_01_08_ugL_
Data File : 15240108i-12.D Operator : Pest15:akm
Date Inj'd : 1/8/2024 4:46 pm Instrument : Pest 15
Sample : il11pest,42e,,pp 11397 L0.Quant Date : 1/12/2024 9:18 am

Compound #24: Mirex



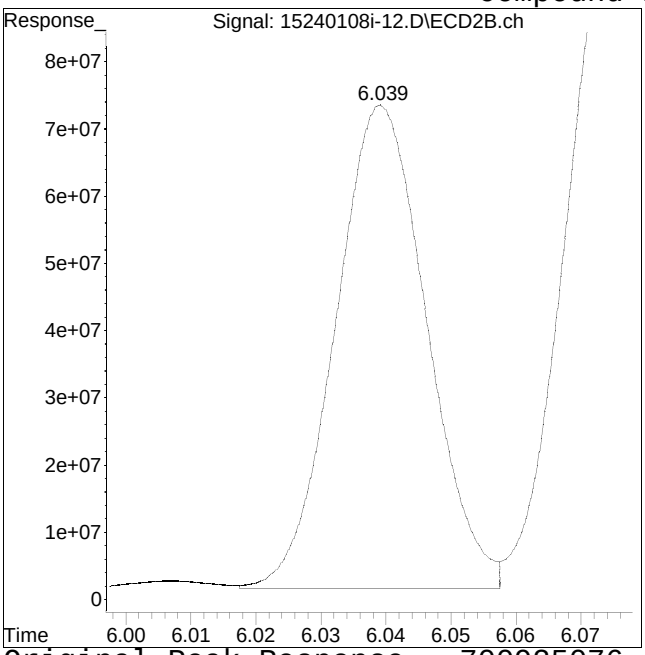


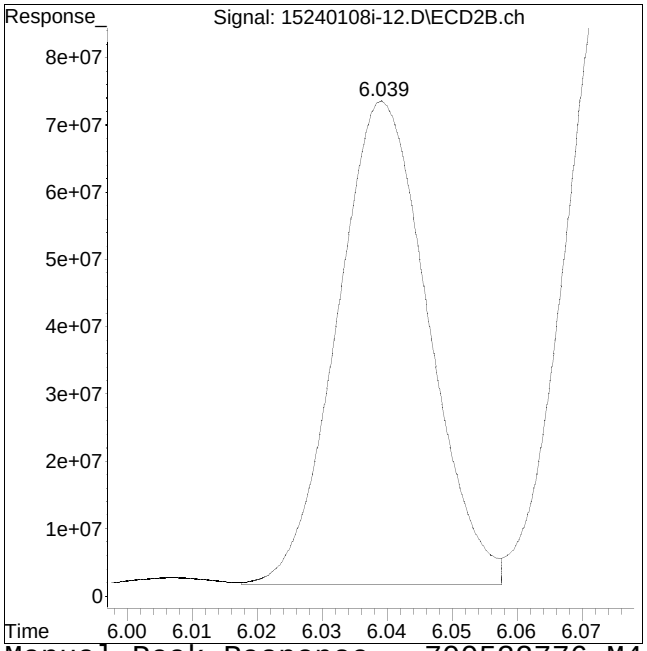
Original Peak Response = 1320800063 Manual Peak Response = 1317622306 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240108QMethod : P15_pest_2024_01_08_ugL_
Data File : 15240108i-12.D Operator : Pest15:akm
Date Inj'd : 1/8/2024 4:46 pm Instrument : Pest 15
Sample : il11pest,42e,,pp 11397 L0.Quant Date : 1/12/2024 9:18 am

Compound #62: Mirex #2



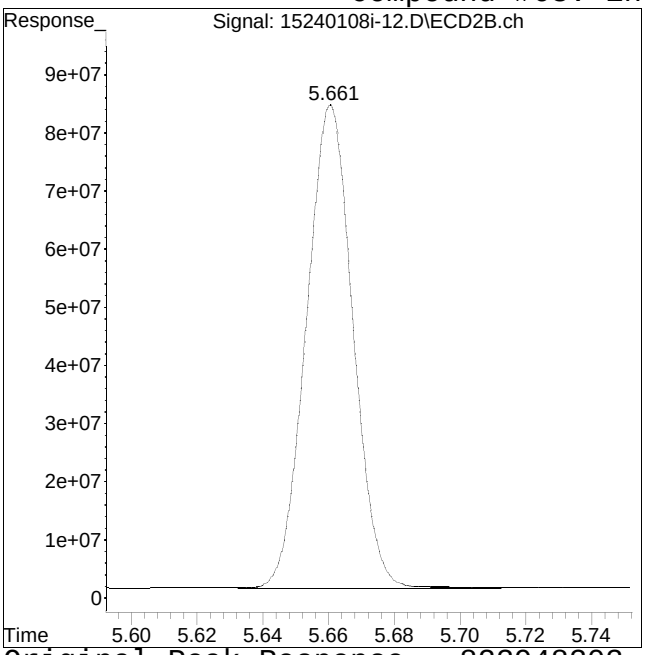


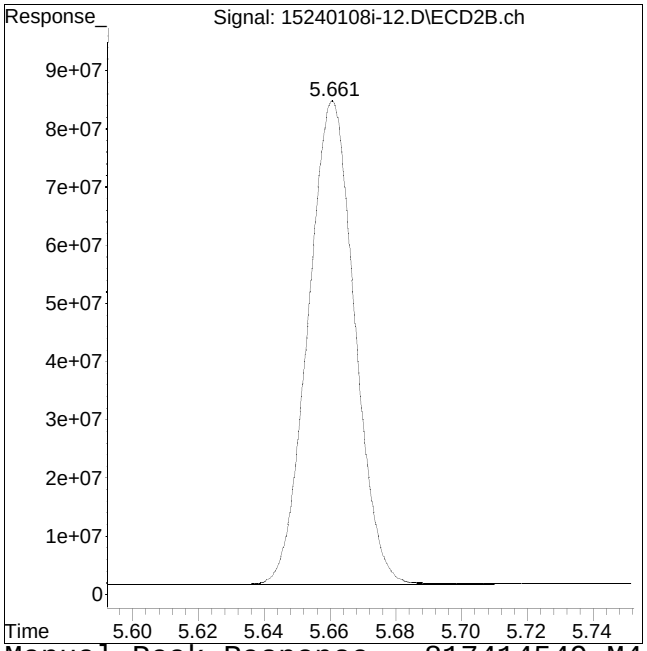
Original Peak Response = 700925076 Manual Peak Response = 700532776 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240108QMethod : P15_pest_2024_01_08_ugL_
Data File : 15240108i-12.D Operator : Pest15:akm
Date Inj'd : 1/8/2024 4:46 pm Instrument : Pest 15
Sample : il11pest,42e,,pp 11397 L0.Quant Date : 1/12/2024 9:18 am

Compound #63: Endosulfan Sulfate #2



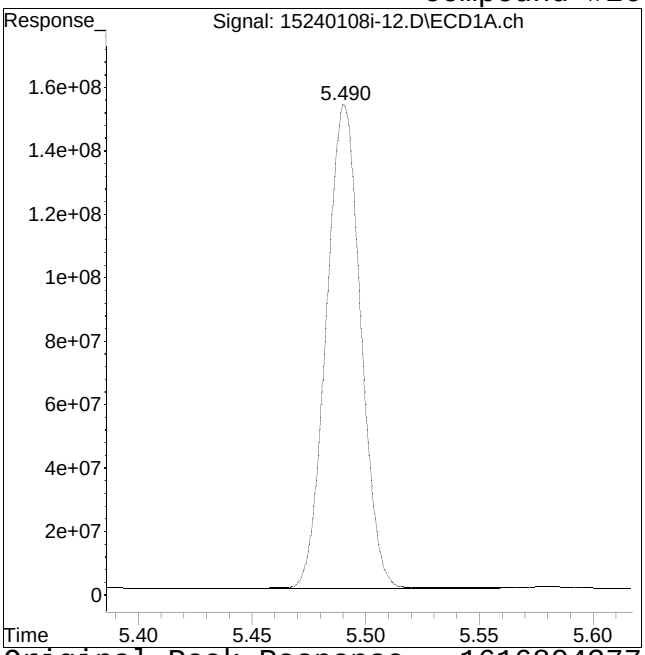


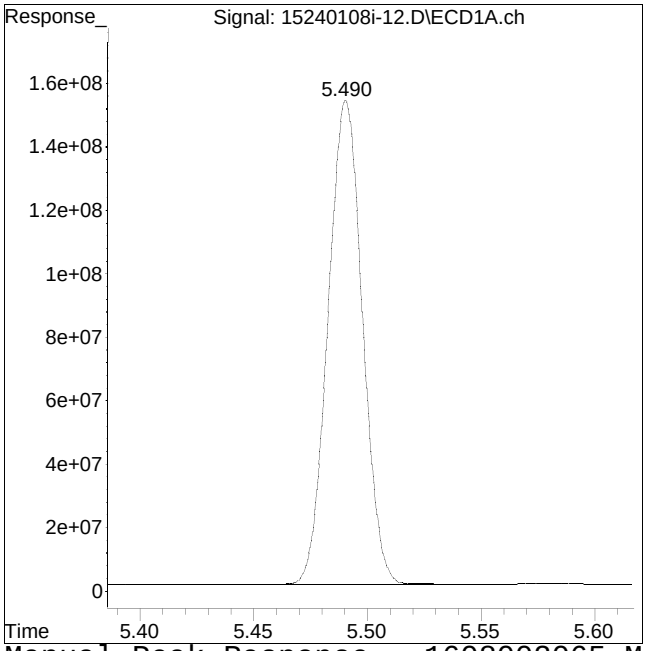
Original Peak Response = 823948303 Manual Peak Response = 817414549 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240108QMethod : P15_pest_2024_01_08_ugL_
Data File : 15240108i-12.D Operator : Pest15:akm
Date Inj'd : 1/8/2024 4:46 pm Instrument : Pest 15
Sample : il11pest,42e,,pp 11397 L0.Quant Date : 1/12/2024 9:18 am

Compound #26: Endrin Ketone



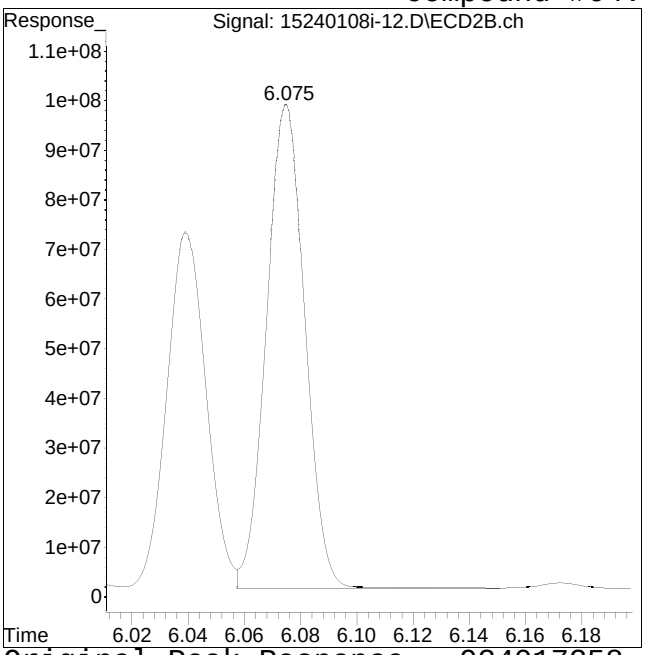


Original Peak Response = 1616804377 Manual Peak Response = 1608002065 M4
M4 = Poor automated baseline construction.

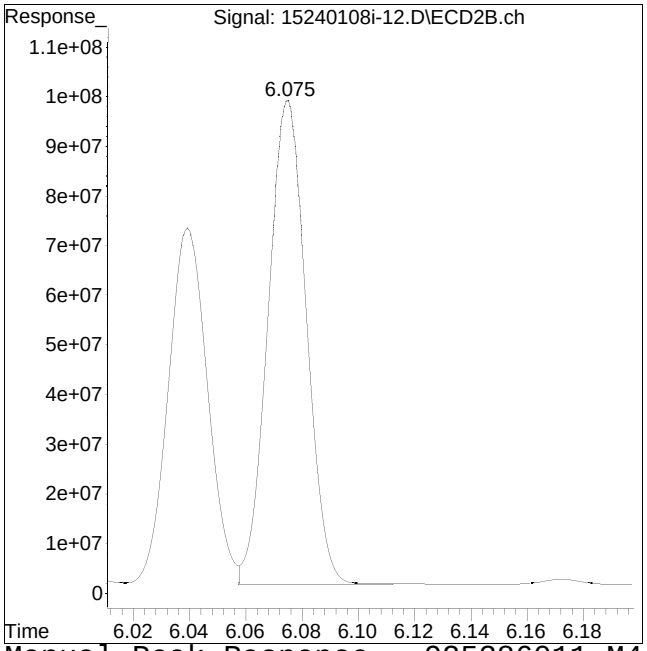
Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240108QMethod : P15_pest_2024_01_08_ugL_
Data File : 15240108i-12.D Operator : Pest15:akm
Date Inj'd : 1/8/2024 4:46 pm Instrument : Pest 15
Sample : il11pest,42e,,pp 11397 L0.Quant Date : 1/12/2024 9:18 am

Compound #64: Endrin Ketone #2



Original Peak Response = 934017358



Manual Peak Response = 925386011 M4

M4 = Poor automated baseline construction.

Initial Calibration Verification

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest15\2024\240108ical\
Data File : 15240108i-13.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 8 Jan 2024   4:58 pm
Operator : Pest15:akm
Sample   : cicvpest,42e,,pp 11430 L0.05ICV
Misc   : WG1874875, (Sig #1); ical (Sig #2)
ALS Vial : 13   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Jan 16 12:25:12 2024
Quant Method : I:\PEST\Pest15\2024\240108ical\P15_pest_2024_01_08_ugL_ICAL.m
Quant Title : pest
QLast Update : Tue Jan 16 12:25:23 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
1	i	1-br-2-nb_Pesticides	^	1.000	1.000	0.0	101	0.00
2	s	2,4,5,6-Tetrachloro-m-xylen		1.059	1.078	-1.8	107	0.00
3		Hexachlorobenzene	*	50.000	53.372	-6.7	100	0.00
4		alpha-BHC		1.372	1.406	-2.5	100	0.00
5		gamma-BHC (lindane)		1.300	1.260	3.1	98	0.00
6		beta-BHC	*	50.000	52.002	-4.0	100	0.00
7		delta-BHC		1.290	1.229	4.7	95	0.00
8		Heptachlor		1.288	1.246	3.3	100	0.00
9		Aldrin		1.180	1.183	-0.3	100	0.00
10		Alachlor	*	50.000	57.645	-15.3#	100	0.00
11		Chlorpyrifos	*	50.000	57.500	-15.0	101	0.00
12		Heptachlor Epoxide		1.170	1.105	5.6	99	0.00
13		gamma-Chlordane (trans)		1.067	1.137	-6.6	112	0.00
14		alpha-Chlordane (cis)		1.220	1.123	8.0	98	0.00
15		4,4'-DDE		1.136	1.116	1.8	98	0.00
16		Endosulfan I		1.101	1.036	5.9	98	0.00
17		Dieldrin		1.136	1.183	-4.1	106	0.00
18		Endrin		1.167	1.116	4.4	97	0.00
19		4,4'-DDD		1.008	0.980	2.8	104	0.00
20		Endosulfan II		1.031	1.005	2.5	100	0.00
21		4,4'-DDT	*	50.000	52.898	-5.8	102	0.00
22		Endrin Aldehyde	*	50.000	48.043	3.9	91	0.00
23		Methoxychlor		0.603	0.568	5.8	99	0.00
24		Mirex		0.959	0.869	9.4	98	0.00
25		Endosulfan Sulfate		0.991	0.933	5.9	99	0.00
26		Endrin Ketone		1.132	1.135	-0.3	103	0.00
27	s	Decachlorobiphenyl		1.030	0.931	9.6	96	0.00

Signal #2

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest15\2024\240108ical\
Data File : 15240108i-13.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 8 Jan 2024   4:58 pm
Operator : Pest15:akm
Sample   : cicvpest,42e,,pp 11430 L0.05ICV
Misc   : WG1874875, (Sig #1); ical (Sig #2)
ALS Vial : 13   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Jan 16 12:25:12 2024
Quant Method : I:\PEST\Pest15\2024\240108ical\P15_pest_2024_01_08_ugL_ICAL.m
Quant Title : pest
QLast Update : Tue Jan 16 12:25:23 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
1	i	1-br-2-nb_Pesticides	^	1.000	1.000	0.0	101	0.00
2	s	2,4,5,6-Tetrachloro-m-xyl		1.101	1.069	2.9	106	0.00
3		Hexachlorobenzene	*	50.000	51.709	-3.4	101	0.00
4		alpha-BHC		1.361	1.334	2.0	100	0.00
5		gamma-BHC (lindane)		1.297	1.187	8.5	99	0.00
6		beta-BHC	*	50.000	50.189	-0.4	99	0.00
7		delta-BHC	*	50.000	46.398	7.2	95	0.00
8		Heptachlor		1.233	1.118	9.3	100	0.00
9		Aldrin		1.157	1.082	6.5	101	0.00
10		Alachlor	*	50.000	54.965	-9.9	98	0.00
11		Chlorpyrifos	*	50.000	56.004	-12.0	101	0.00
12		Heptachlor Epoxide	*	50.000	50.250	-0.5	98	0.00
13		gamma-Chlordane (trans)		1.034	1.017	1.6	112	0.00
14		alpha-Chlordane (cis)	*	50.000	49.521	1.0	98	0.00
15		4,4'-DDE		1.115	1.011	9.3	97	0.00
16		Endosulfan I	*	50.000	49.914	0.2	98	0.00
17		Dieldrin		1.067	1.037	2.8	106	0.00
18		Endrin	*	50.000	49.988	0.0	97	0.00
19		4,4'-DDD	*	50.000	51.727	-3.5	104	0.00
20		Endosulfan II	*	50.000	52.681	-5.4	100	0.00
21		4,4'-DDT	*	50.000	50.300	-0.6	99	0.00
22		Endrin Aldehyde	*	50.000	46.108	7.8	91	0.00
23		Methoxychlor	*	50.000	52.864	-5.7	99	0.00
24		Mirex	*	50.000	52.154	-4.3	99	0.00
25		Endosulfan Sulfate	*	50.000	51.890	-3.8	101	0.00
26		Endrin Ketone		1.028	0.951	7.5	102	0.00
27	s	Decachlorobiphenyl	*	50.000	50.779	-1.6	96	0.00

Evaluate Continuing Calibration Report - Not Founds

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest15\2024\240108ical\
Data File : 15240108i-13.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 8 Jan 2024   4:58 pm
Operator : Pest15:akm
Sample   : cicvpest,42e,,pp 11430 L0.05ICV
Misc   : WG1874875, (Sig #1); ical (Sig #2)
ALS Vial : 13   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Jan 16 12:25:12 2024
Quant Method : I:\PEST\Pest15\2024\240108ical\P15_pest_2024_01_08_ugL_ICAL.m
Quant Title : pest
QLast Update : Tue Jan 16 12:25:23 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
28	i	1-br-2-nb_Chlordane	^	1.000	1.000	0.0	0	-1.25#
29	l1	chlordane-1		*1000.000	0.000	100.0#	0	-2.50#
30	l1	chlordane-3		*1000.000	0.000	100.0#	0	-2.86#
31	l1	chlordane-4		*1000.000	0.000	100.0#	0	-3.42#
32	l1	chlordane-5		*1000.000	0.000	100.0#	0	-3.54#
33	i	1-br-2-nb_Toxaphene	^	1.000	1.000	0.0	0	-1.25#
34	l2	toxaphene-1		*2000.000	0.000	100.0#	0	-4.44#
35	l2	toxaphene-2		*2000.000	0.000	100.0#	0	-4.56#
36	l2	toxaphene-4		*2000.000	0.000	100.0#	0	-4.98#
37	l2	toxaphene-5		*2000.000	0.000	100.0#	0	-5.17#

Signal #2

28	i	1-br-2-nb_Chlordane	^	1.000	1.000	0.0	0	-1.33#
29	l1	chlordane-1		*1000.000	0.000	100.0#	0	-2.95#
30	l1	chlordane-3		*1000.000	0.000	100.0#	0	-3.42#
31	l1	chlordane-4		*1000.000	0.000	100.0#	0	-4.11#
32	l1	chlordane-5		*1000.000	0.000	100.0#	0	-4.28#
33	i	1-br-2-nb_Toxaphene	^	1.000	1.000	0.0	0	-1.33#
34	l2	toxaphene-1		*2000.000	0.000	100.0#	0	-5.09#
35	l2	toxaphene-2		*2000.000	0.000	100.0#	0	-5.12#
36	l2	toxaphene-4		*2000.000	0.000	100.0#	0	-5.44#
37	l2	toxaphene-5		*2000.000	0.000	100.0#	0	-5.85#

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0
(^) = ISTD area calculated using ICAL average

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest15\2024\240108ical\
Data File : 15240108i-13.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 8 Jan 2024 4:58 pm
Operator : Pest15:akm
Sample : cicvpest,42e,,pp 11430 L0.05ICV
Misc : WG1874875, (Sig #1); ical (Sig #2)
ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Jan 16 12:25:12 2024
Quant Method : I:\PEST\Pest15\2024\240108ical\P15_pest_2024_01_08_ugL_ICAL.m
Quant Title : pest
QLast Update : Tue Jan 16 12:25:23 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	1.250	1.331	107.8E6	69609618	25.000	25.000
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.620	1.835	232.5E6	148.8E6	50.897	48.518
	Spiked Amount 50.000	Range 30 - 150		Recovery =		101.79%	97.04%
27) s	Decachlorobi	6.297	6.941	200.7E6	103.9E6	45.190	50.779
	Spiked Amount 50.000	Range 30 - 150		Recovery =		90.38%	101.56%
	Target Compounds						
3)	Hexachlorobe	1.841	2.163	230.6E6	146.2E6	53.372	51.709
4)	alpha-BHC	1.943	2.262	303.2E6	185.7E6	51.228	48.991
5)	gamma-BHC (l	2.150	2.551	271.8E6	165.3E6	48.487	45.791
6)	beta-BHC	2.209	2.616	124.3E6	75685256	52.002	50.189
7)	delta-BHC	2.338	2.885	265.0E6	160.6E6	47.640	46.398
8)	Heptachlor	2.501	2.951	268.7E6	155.6E6	48.373	45.331
9)	Aldrin	2.745	3.271	255.1E6	150.7E6	50.156	46.748
10)	Alachlor	2.869	3.156	39893831	32857378	57.645	54.965
11)	Chlorpyrifos	2.962	3.511	120.8E6	71799598	57.500	56.004
12)	Heptachlor E	3.293	3.888	238.3E6	138.4E6	47.245	50.250
13)	gamma-Chlord	3.417	4.109	245.1E6	141.5E6	53.259	49.156
14)	alpha-Chlord	3.551	4.279	242.2E6	139.3E6	46.040	49.521
15)	4,4'-DDE	3.649	4.478	240.6E6	140.8E6	49.145	45.373
16)	Endosulfan I	3.687	4.340	223.3E6	129.0E6	47.022M4	49.914
17)	Dieldrin	3.948	4.633	255.0E6	144.3E6	52.038	48.565
18)	Endrin	4.203	4.932	240.5E6	133.2E6	47.805	49.988
19)	4,4'-DDD	4.315	5.056	211.3E6	117.3E6	48.627	51.727
20)	Endosulfan I	4.445	5.132	216.6E6	121.3E6	48.717	52.681
21)	4,4'-DDT	4.609	5.334	228.9E6	123.7E6	52.898	50.300
22)	Endrin Aldeh	4.865	5.430	162.0E6	91699422	48.043	46.108
23)	Methoxychlor	5.101	5.903	122.5E6	64211272	47.081	52.864M4

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest15\2024\240108ical\
Data File : 15240108i-13.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 8 Jan 2024 4:58 pm
Operator : Pest15:akm
Sample : cicvpest,42e,,pp 11430 L0.05ICV
Misc : WG1874875, (Sig #1); ical (Sig #2)
ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Jan 16 12:25:12 2024
Quant Method : I:\PEST\Pest15\2024\240108ical\P15_pest_2024_01_08_ugL_ICAL.m
Quant Title : pest
QLast Update : Tue Jan 16 12:25:23 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
24)	Mirex	5.154	6.040	187.3E6	97823139	45.309M3	52.154
25)	Endosulfan S	5.261	5.660	201.2E6	111.7E6	47.083	51.890
26)	Endrin Keton	5.490	6.075	244.6E6	132.4E6	50.123	46.253
29) l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

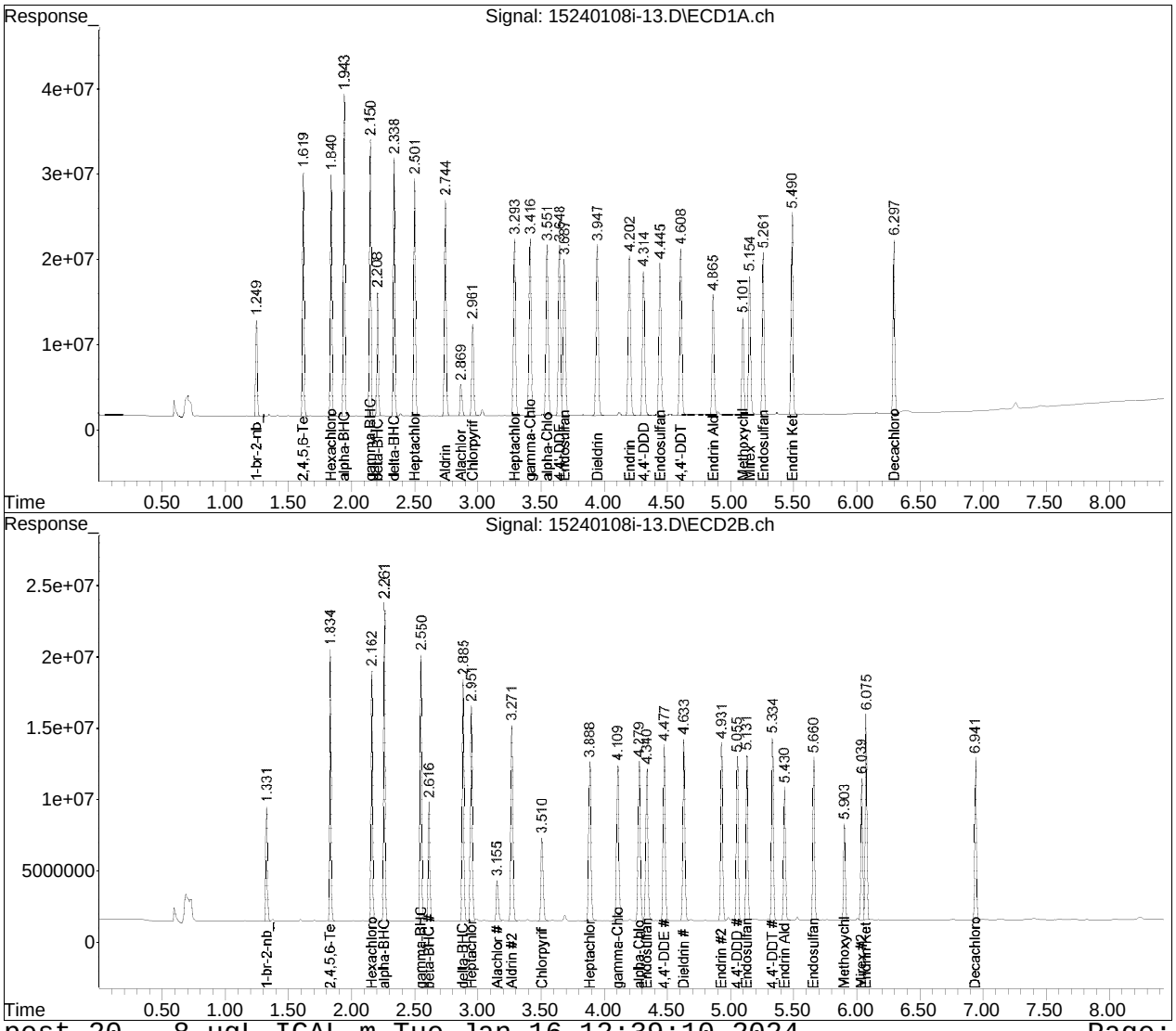
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest15\2024\240108ical\
Data File : 15240108i-13.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 8 Jan 2024 4:58 pm
Operator : Pest15:akm
Sample : cicvpest,42e,,pp 11430 L0.05ICV
Misc : WG1874875, (Sig #1); ical (Sig #2)
ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Jan 16 12:25:12 2024
Quant Method : I:\PEST\Pest15\2024\240108ical\P15_pest_2024_01_08_ugL_ICAL.m
Quant Title : pest
QLast Update : Tue Jan 16 12:25:23 2024
Response via : Initial Calibration
Integrator: ChemStation

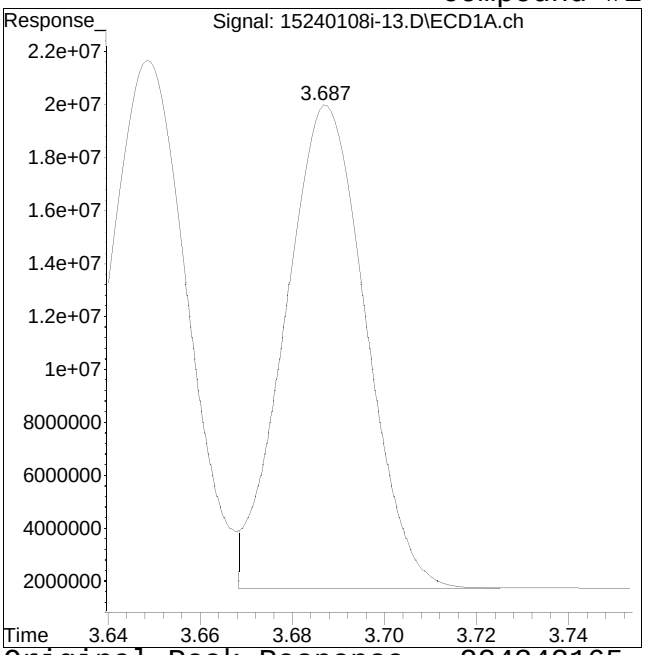
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

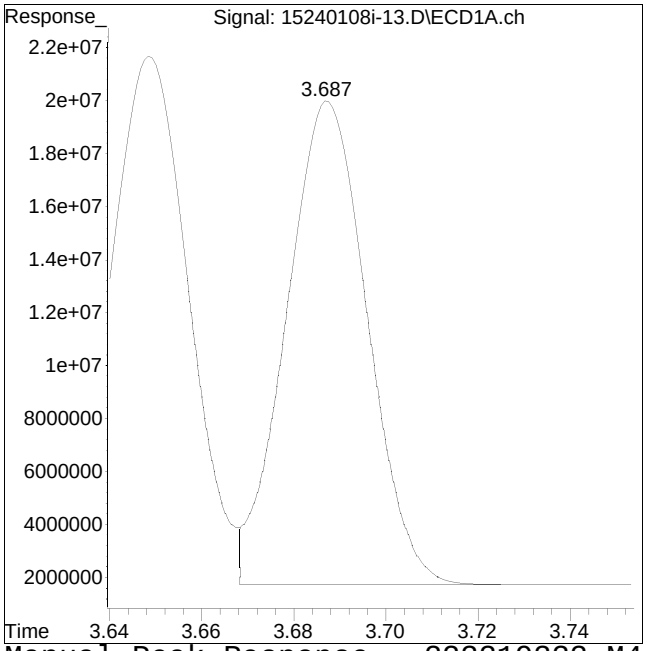


Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240108QMethod : P15_pest_2024_01_08_ugL_
Data File : 15240108i-13.D Operator : Pest15:akm
Date Inj'd : 1/8/2024 4:58 pm Instrument : Pest 15
Sample : cicvpest,42e,,pp 11430 L0.Quant Date : 1/16/2024 12:25 pm

Compound #16: Endosulfan I



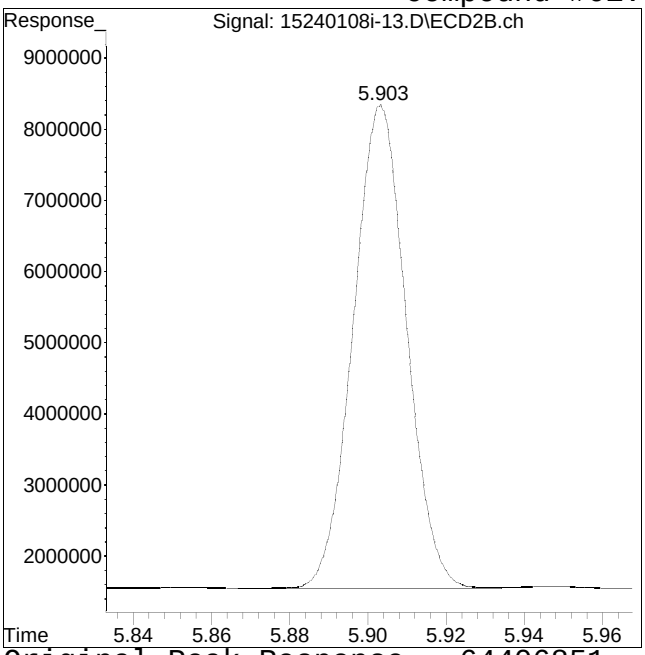


Original Peak Response = 224342165 Manual Peak Response = 223319333 M4
M4 = Poor automated baseline construction.

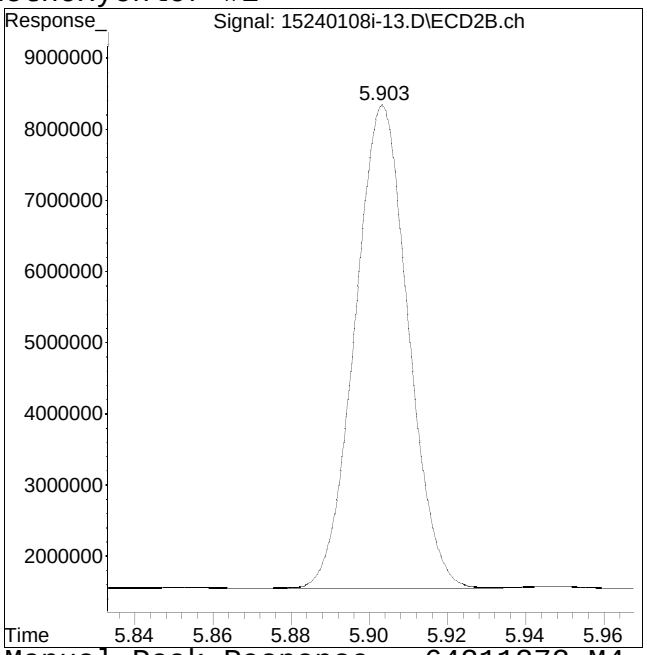
Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240108QMethod : P15_pest_2024_01_08_ugL_
Data File : 15240108i-13.D Operator : Pest15:akm
Date Inj'd : 1/8/2024 4:58 pm Instrument : Pest 15
Sample : cicvpest,42e,,pp 11430 L0.Quant Date : 1/16/2024 12:25 pm

Compound #61: Methoxychlor #2



Original Peak Response = 64406851



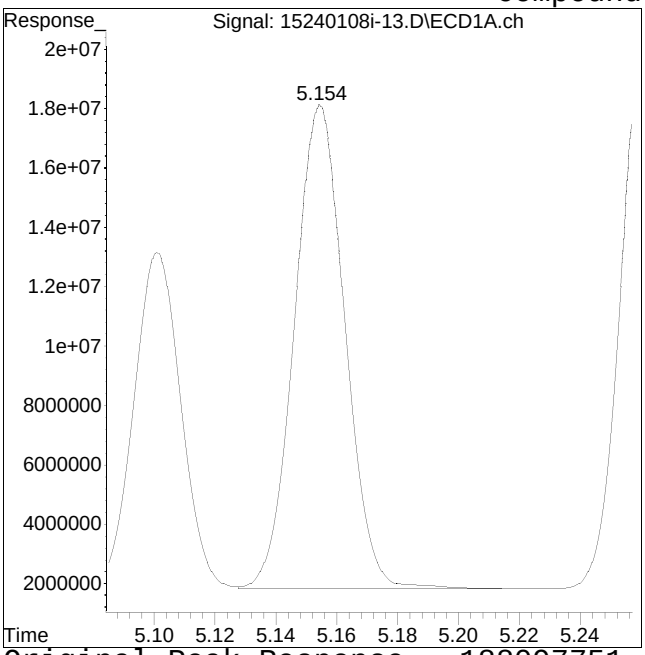
Manual Peak Response = 64211272 M4

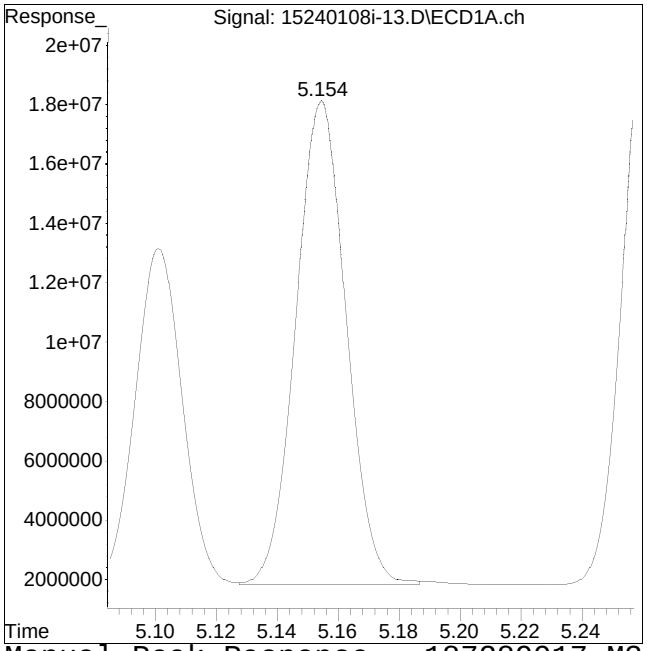
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240108QMethod : P15_pest_2024_01_08_ugL_
Data File : 15240108i-13.D Operator : Pest15:akm
Date Inj'd : 1/8/2024 4:58 pm Instrument : Pest 15
Sample : cicvpest,42e,,pp 11430 L0.Quant Date : 1/16/2024 12:25 pm

Compound #24: Mirex





Original Peak Response = 188097751 Manual Peak Response = 187289917 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest15\2024\240108ical\
Data File : 15240108i-14.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 8 Jan 2024 5:10 pm
Operator : Pest15:akm
Sample : il3chlor,42e,,pp 11325 L0.01
Misc : WG1874875, (Sig #1); ical (Sig #2)
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Jan 15 13:07:52 2024
Quant Method : I:\PEST\Pest15\2024\240108ical\P15_pest_2024_01_08_ugL_ICAL.m
Quant Title : pest
QLast Update : Fri Jan 12 10:51:47 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	1.248	1.330	107.3E6	69927684	25.000	25.000
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D.	N.D.
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
	Target Compounds						
3)	Hexachlorobe	0.000	0.000	0	0	N.D.	N.D.
4)	alpha-BHC	0.000	0.000	0	0	N.D.	N.D.
5)	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6)	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8)	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9)	Aldrin	0.000	0.000	0	0	N.D.	N.D.
10)	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11)	Chlorpyrifos	0.000	0.000	0	0	N.D.	N.D.
12)	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13)	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14)	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15)	4,4'-DDE	0.000	0.000	0	0	N.D.	N.D.
16)	Endosulfan I	0.000	0.000	0	0	N.D.	N.D.
17)	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18)	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22)	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d
23)	Methoxychlor	0.000	0.000	0	0	N.D.	N.D.

Data Path : I:\PEST\Pest15\2024\240108ical\
Data File : 15240108i-14.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 8 Jan 2024 5:10 pm
Operator : Pest15:akm
Sample : il3chlor,42e,,pp 11325 L0.01
Misc : WG1874875, (Sig #1); ical (Sig #2)
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Jan 15 13:07:52 2024
Quant Method : I:\PEST\Pest15\2024\240108ical\P15_pest_2024_01_08_ugL_ICAL.m
Quant Title : pest
QLast Update : Fri Jan 12 10:51:47 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
24)		Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25)		Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26)		Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29)	l1	chlordane-1	2.501	2.951	3401121	2200015	14.308	14.901M4
30)	l1	chlordane-3	2.860	3.424	2441507	1529566	15.044	15.597
31)	l1	chlordane-4	3.417	4.109	7427656	4714402	13.888M4	15.668M3
32)	l1	chlordane-5	3.544	4.280	12101894	3741952	14.581M4	15.269
	Sum	chlordane-1			25372178	12185935	NoCal	NoCal D
Average		chlordane-1					14.455	15.359
34)	l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35)	l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36)	l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37)	l2	toxaphene-5	0.000	0.000	0	0	N.D.	N.D.
	Sum	toxaphene-1			0	0	N.D.	N.D.
Average		toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

	Sum	toxaphene-1			0	0	N.D.	N.D.
Average		toxaphene-1					0.000	0.000

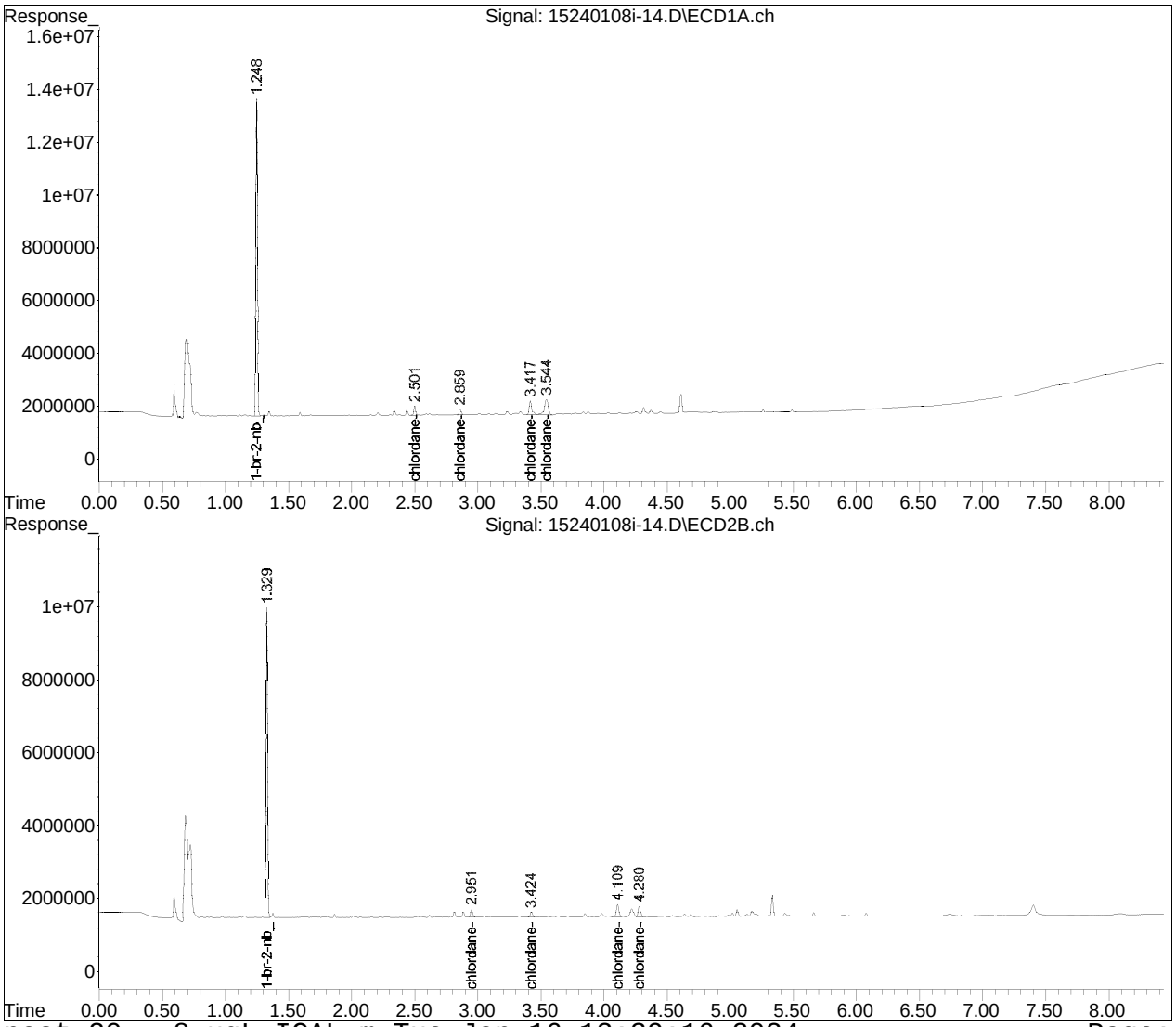
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest15\2024\240108ical\
Data File : 15240108i-14.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 8 Jan 2024 5:10 pm
Operator : Pest15:akm
Sample : il3chlor,42e,,pp 11325 L0.01
Misc : WG1874875, (Sig #1); ical (Sig #2)
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Jan 15 13:07:52 2024
Quant Method : I:\PEST\Pest15\2024\240108ical\P15_pest_2024_01_08_ugL_ICAL.m
Quant Title : pest
QLast Update : Fri Jan 12 10:51:47 2024
Response via : Initial Calibration
Integrator: ChemStation

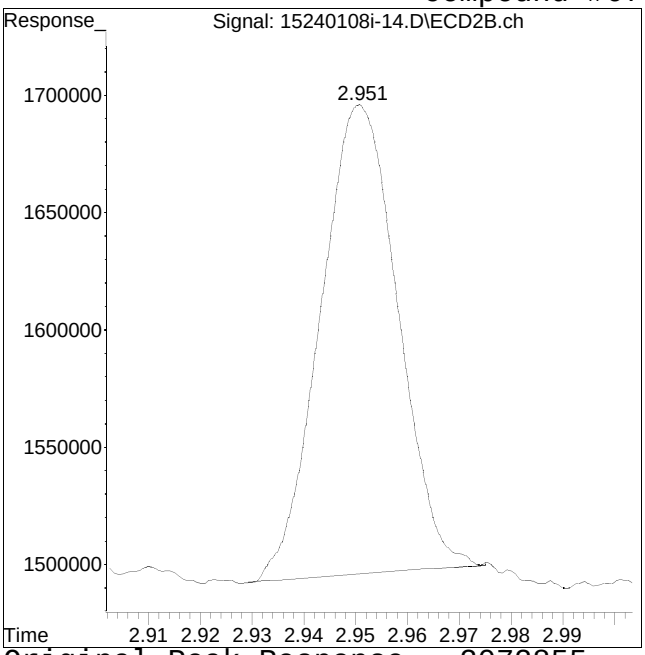
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



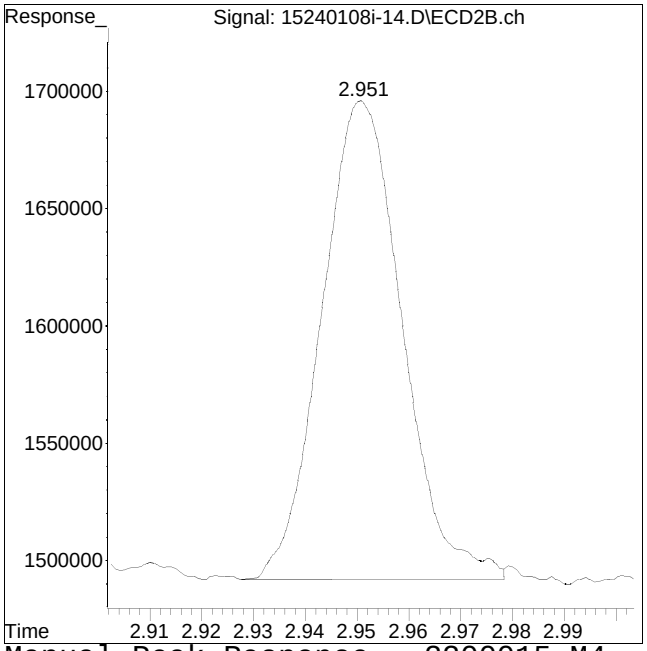
Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240108Q
Data File : 15240108i-14.D
Date Inj'd : 1/8/2024 5:10 pm
Sample : il3chlor,42e,,pp 11325 L0.
Method : P15_pest_2024_01_08_ugL_
Operator : Pest15:akm
Instrument : Pest 15
Quant Date : 1/12/2024 10:52 am

Compound #67: chlordane-1 #2



Original Peak Response = 2072855



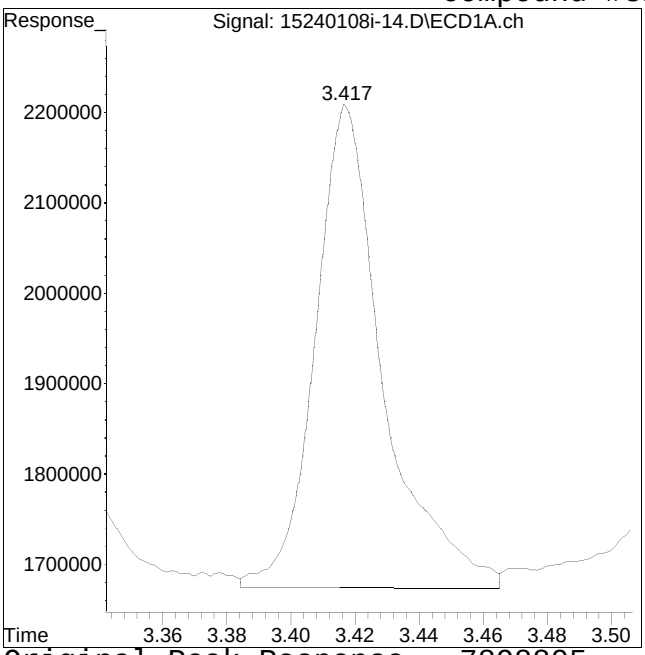
Manual Peak Response = 2200015 M4

M4 = Poor automated baseline construction.

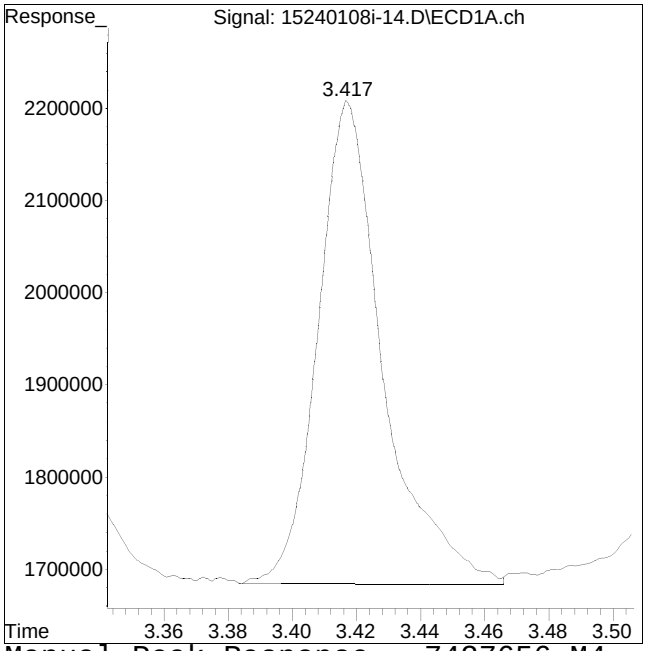
Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240108QMethod : P15_pest_2024_01_08_ugL_
Data File : 15240108i-14.D Operator : Pest15:akm
Date Inj'd : 1/8/2024 5:10 pm Instrument : Pest 15
Sample : il3chlor,42e,,pp 11325 L0.Quant Date : 1/12/2024 10:52 am

Compound #31: chlordane-4



Original Peak Response = 7898805



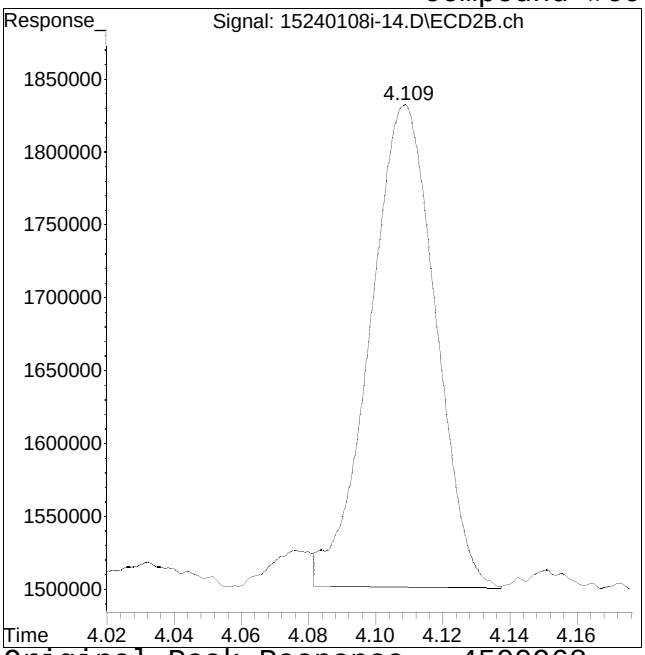
Manual Peak Response = 7427656 M4

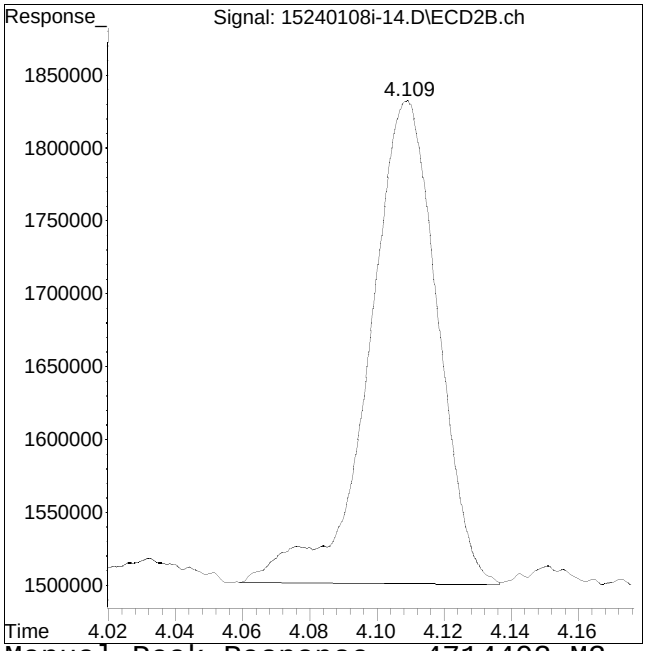
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240108QMethod : P15_pest_2024_01_08_ugL_
Data File : 15240108i-14.D Operator : Pest15:akm
Date Inj'd : 1/8/2024 5:10 pm Instrument : Pest 15
Sample : il3chlor,42e,,pp 11325 L0.Quant Date : 1/12/2024 10:52 am

Compound #69: chlordane-4 #2



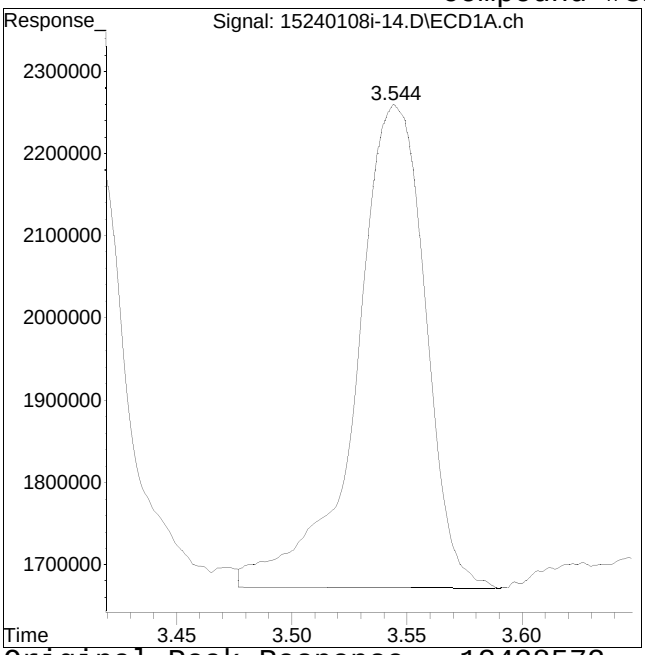


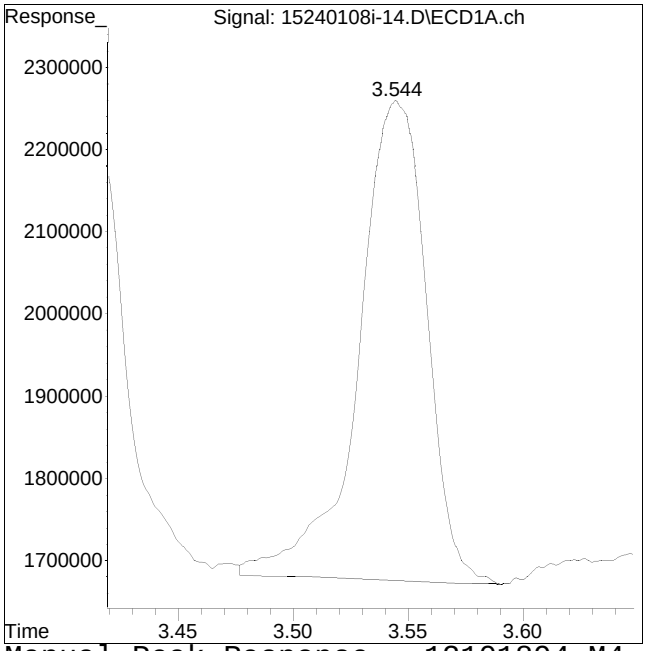
Original Peak Response = 4500968 Manual Peak Response = 4714402 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240108QMethod : P15_pest_2024_01_08_ugL_
Data File : 15240108i-14.D Operator : Pest15:akm
Date Inj'd : 1/8/2024 5:10 pm Instrument : Pest 15
Sample : il3chlor,42e,,pp 11325 L0.Quant Date : 1/12/2024 10:52 am

Compound #32: chlordane-5





Original Peak Response = 12438572 Manual Peak Response = 12101894 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest15\2024\240108ical\
Data File : 15240108i-15.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 8 Jan 2024 5:22 pm
Operator : Pest15:akm
Sample : il4chlor,42e,,pp 11324 L0.02
Misc : WG1874875, (Sig #1); ical (Sig #2)
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Jan 15 13:08:27 2024
Quant Method : I:\PEST\Pest15\2024\240108ical\P15_pest_2024_01_08_ugL_ICAL.m
Quant Title : pest
QLast Update : Fri Jan 12 10:50:17 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	1.248	1.329	106.4E6	68459334	25.000	25.000
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
	Target Compounds						
3)	Hexachlorobe	0.000	0.000	0	0	N.D.	N.D.
4)	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)	gamma-BHC (l	0.000	0.000	0	0	N.D.	N.D.
6)	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8)	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9)	Aldrin	0.000	0.000	0	0	N.D.	N.D.
10)	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11)	Chlorpyrifos	0.000	0.000	0	0	N.D.	N.D.
12)	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13)	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14)	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15)	4,4'-DDE	0.000	0.000	0	0	N.D.	N.D.
16)	Endosulfan I	0.000	0.000	0	0	N.D.	N.D.
17)	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18)	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22)	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d
23)	Methoxychlor	0.000	0.000	0	0	N.D.	N.D.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest15\2024\240108ical\
Data File : 15240108i-15.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 8 Jan 2024 5:22 pm
Operator : Pest15:akm
Sample : il4chlor,42e,,pp 11324 L0.02
Misc : WG1874875, (Sig #1); ical (Sig #2)
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Jan 15 13:08:27 2024
Quant Method : I:\PEST\Pest15\2024\240108ical\P15_pest_2024_01_08_ugL_ICAL.m
Quant Title : pest
QLast Update : Fri Jan 12 10:50:17 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
24)		Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25)		Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26)		Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29)	l1	chlordane-1	2.501	2.951	6282763	4162821	28.556	31.580
30)	l1	chlordane-3	2.859	3.425	4445009	3027327	29.902	35.641M4
31)	l1	chlordane-4	3.416	4.108	13737004	8649119	27.529	32.068M3
32)	l1	chlordane-5	3.543	4.280	21441347	7015466	27.734	32.216
	Sum	chlordane-1			45906124	22854732	NoCal	NoCal D
Average		chlordane-1					28.430	32.876
34)	l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35)	l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36)	l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37)	l2	toxaphene-5	0.000	0.000	0	0	N.D.	N.D.
	Sum	toxaphene-1			0	0	N.D.	N.D.
Average		toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

	Sum	toxaphene-1			0	0	N.D.	N.D.
Average		toxaphene-1					0.000	0.000

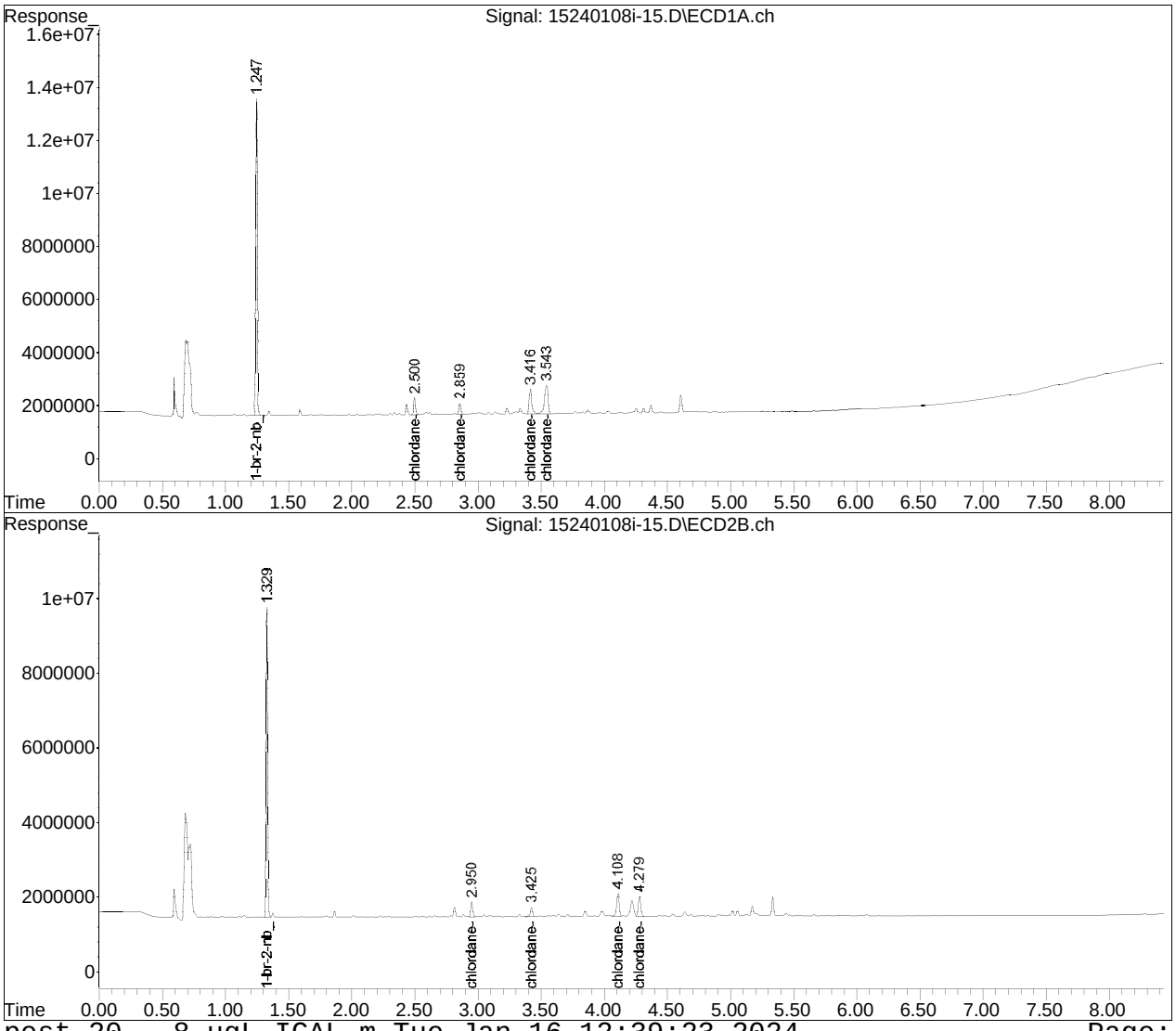
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest15\2024\240108ical\
Data File : 15240108i-15.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 8 Jan 2024 5:22 pm
Operator : Pest15:akm
Sample : il4chlor,42e,,pp 11324 L0.02
Misc : WG1874875, (Sig #1); ical (Sig #2)
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Jan 15 13:08:27 2024
Quant Method : I:\PEST\Pest15\2024\240108ical\P15_pest_2024_01_08_ugL_ICAL.m
Quant Title : pest
QLast Update : Fri Jan 12 10:50:17 2024
Response via : Initial Calibration
Integrator: ChemStation

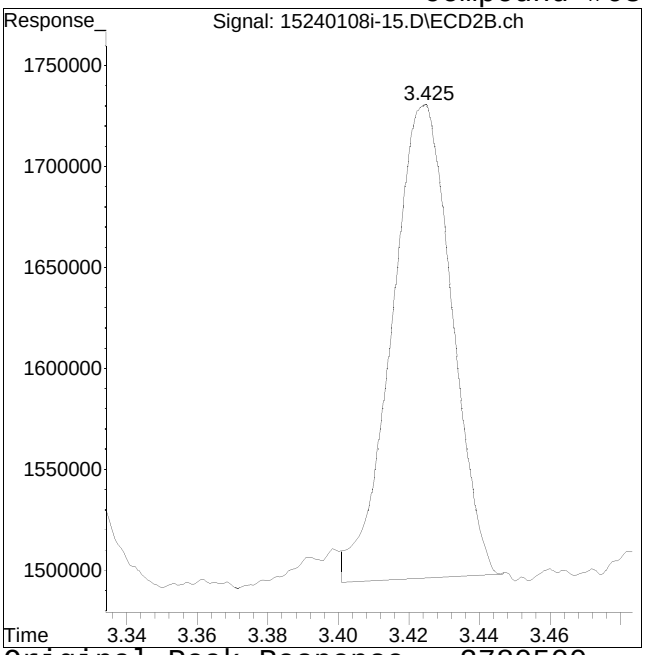
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



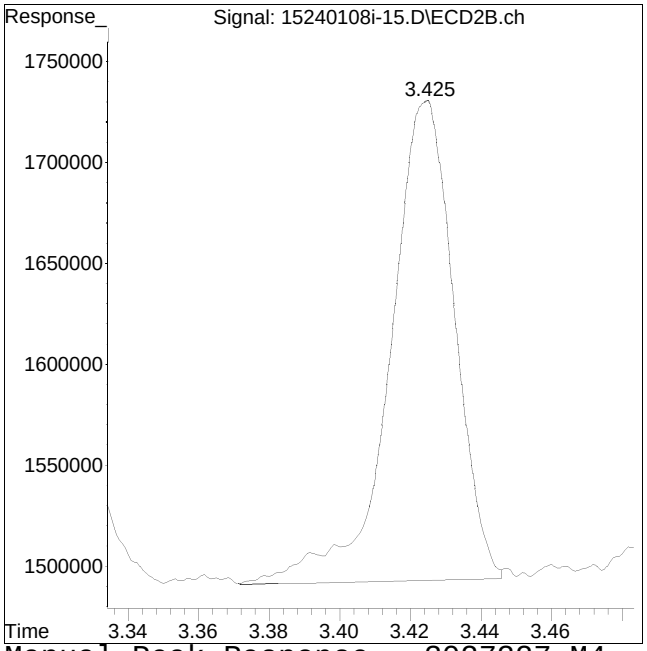
Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240108QMethod : P15_pest_2024_01_08_ugL_
Data File : 15240108i-15.D Operator : Pest15:akm
Date Inj'd : 1/8/2024 5:22 pm Instrument : Pest 15
Sample : il4chlor,42e,,pp 11324 L0.Quant Date : 1/12/2024 10:50 am

Compound #68: chlordane-3 #2



Original Peak Response = 2780500



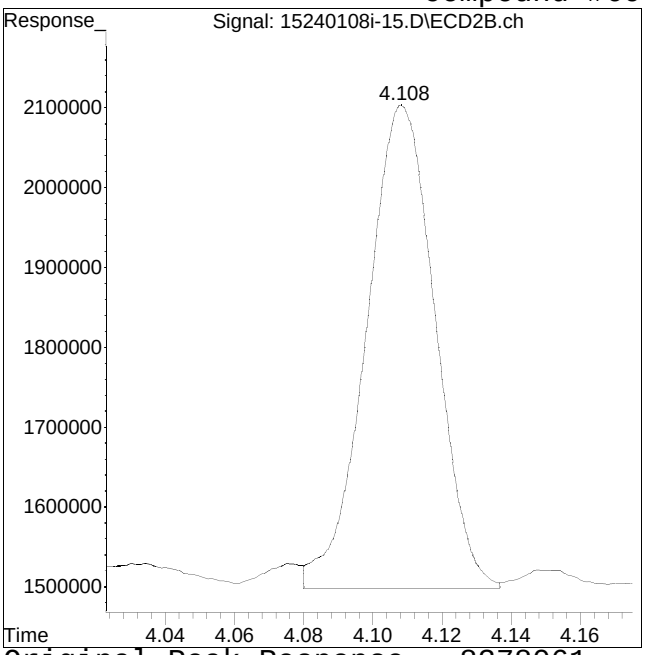
Manual Peak Response = 3027327 M4

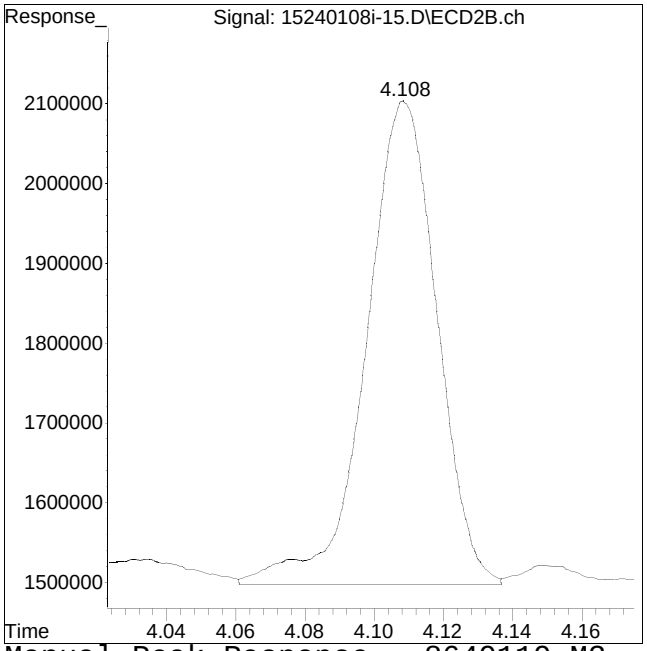
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240108QMethod : P15_pest_2024_01_08_ugL_
Data File : 15240108i-15.D Operator : Pest15:akm
Date Inj'd : 1/8/2024 5:22 pm Instrument : Pest 15
Sample : il4chlor,42e,,pp 11324 L0.Quant Date : 1/12/2024 10:50 am

Compound #69: chlordane-4 #2





Original Peak Response = 8378061 Manual Peak Response = 8649119 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest15\2024\240108ical\
Data File : 15240108i-16.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 8 Jan 2024 5:34 pm
Operator : Pest15:akm
Sample : il5chlor,42e,,pp 11323 L0.1
Misc : WG1874875, (Sig #1); ical (Sig #2)
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Jan 15 13:08:54 2024
Quant Method : I:\PEST\Pest15\2024\240108ical\P15_pest_2024_01_08_ugL_ICAL.m
Quant Title : pest
QLast Update : Fri Jan 12 10:49:26 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	1.248	1.329	107.0E6	70022745	25.000	25.000
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
	Target Compounds						
3)	Hexachlorobe	0.000	0.000	0	0	N.D.	N.D.
4)	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6)	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8)	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9)	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10)	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11)	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12)	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13)	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14)	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17)	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18)	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22)	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d
23)	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest15\2024\240108ical\
Data File : 15240108i-16.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 8 Jan 2024 5:34 pm
Operator : Pest15:akm
Sample : il5chlor,42e,,pp 11323 L0.1
Misc : WG1874875, (Sig #1); ical (Sig #2)
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Jan 15 13:08:54 2024
Quant Method : I:\PEST\Pest15\2024\240108ical\P15_pest_2024_01_08_ugL_ICAL.m
Quant Title : pest
QLast Update : Fri Jan 12 10:49:26 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
24)		Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25)		Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26)		Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29)	l1	chlordane-1	2.501	2.951	28126847	17761386	136.324	143.083
30)	l1	chlordane-3	2.859	3.424	20297378	12358302	149.068	159.046
31)	l1	chlordane-4	3.417	4.108	62700588	34547249	133.219	133.812M3
32)	l1	chlordane-5	3.545	4.280	98092292	28680040	134.959	138.741
	Sum	chlordane-1			209.2E6	93346977	NoCal	NoCal D
Average		chlordane-1					138.393	143.670
34)	l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35)	l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36)	l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37)	l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum	toxaphene-1			0	0	N.D.	N.D.
Average		toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

	Sum	toxaphene-1			0	0	N.D.	N.D.
Average		toxaphene-1					0.000	0.000

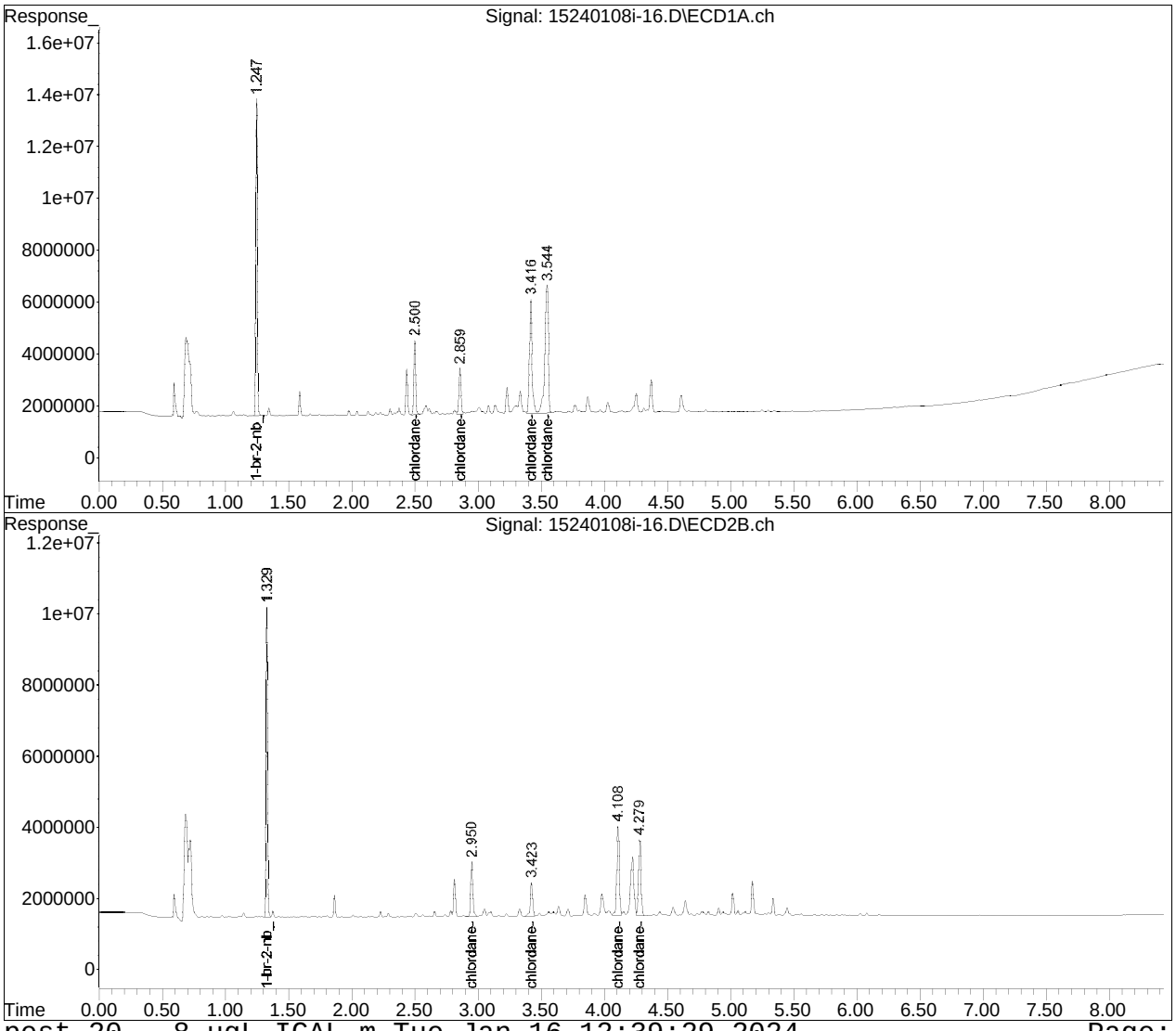
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest15\2024\240108ical\
Data File : 15240108i-16.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 8 Jan 2024 5:34 pm
Operator : Pest15:akm
Sample : il5chlor,42e,,pp 11323 L0.1
Misc : WG1874875, (Sig #1); ical (Sig #2)
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Jan 15 13:08:54 2024
Quant Method : I:\PEST\Pest15\2024\240108ical\P15_pest_2024_01_08_ugL_ICAL.m
Quant Title : pest
QLast Update : Fri Jan 12 10:49:26 2024
Response via : Initial Calibration
Integrator: ChemStation

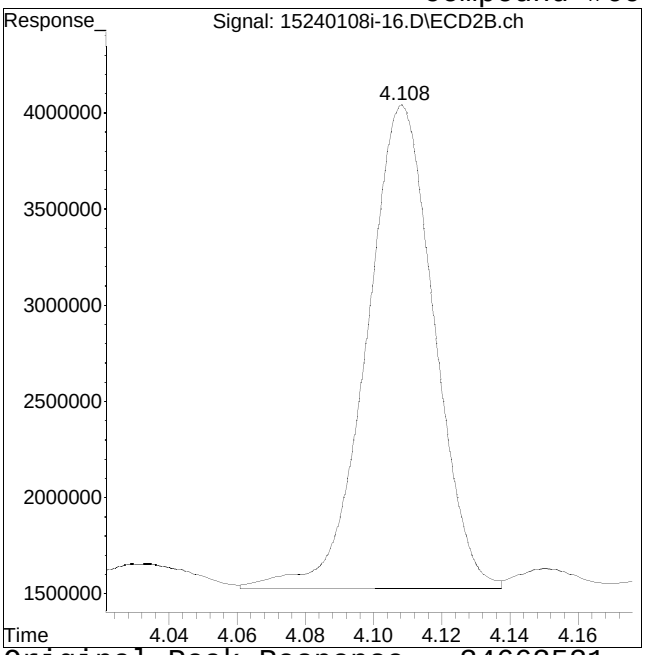
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

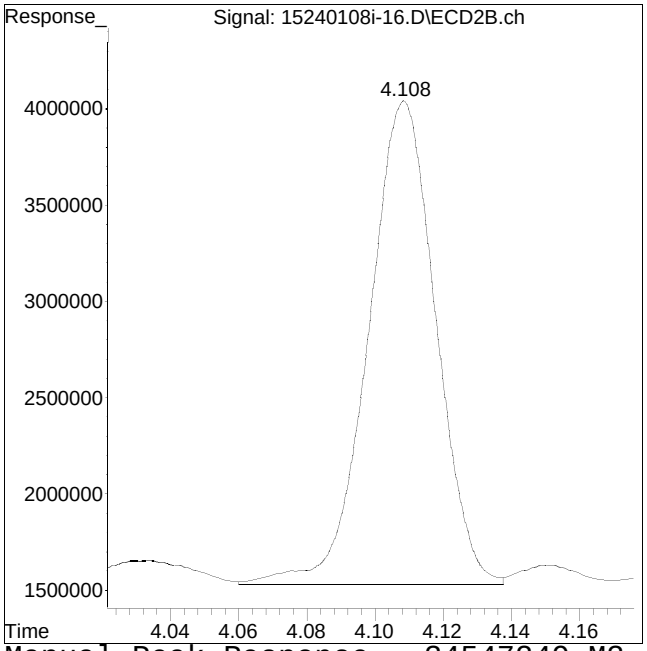


Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240108QMethod : P15_pest_2024_01_08_ugL_
Data File : 15240108i-16.D Operator : Pest15:akm
Date Inj'd : 1/8/2024 5:34 pm Instrument : Pest 15
Sample : il5chlor,42e,,pp 11323 L0.Quant Date : 1/12/2024 10:49 am

Compound #69: chlordane-4 #2





Original Peak Response = 34663531 Manual Peak Response = 34547249 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest15\2024\240108ical\
Data File : 15240108i-17.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 8 Jan 2024 5:46 pm
Operator : Pest15:akm
Sample : il7chlor,42e,,pp 11322 L0.5
Misc : WG1874875, (Sig #1); ical (Sig #2)
ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Jan 12 10:48:54 2024
Quant Method : I:\PEST\Pest15\2024\240108ical\P15_pest_2024_01_08_ugL_ICAL.m
Quant Title : pest
QLast Update : Fri Jan 12 10:46:46 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	1.248	1.330	112.5E6	73769540	25.000M4	25.000
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
	Target Compounds						
3)	Hexachlorobe	0.000	0.000	0	0	N.D. d	N.D. d
4)	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6)	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8)	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9)	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10)	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11)	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12)	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13)	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14)	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17)	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18)	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22)	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d
23)	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest15\2024\240108ical\
Data File : 15240108i-17.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 8 Jan 2024 5:46 pm
Operator : Pest15:akm
Sample : il7chlor,42e,,pp 11322 L0.5
Misc : WG1874875, (Sig #1); ical (Sig #2)
ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Jan 12 10:48:54 2024
Quant Method : I:\PEST\Pest15\2024\240108ical\P15_pest_2024_01_08_ugL_ICAL.m
Quant Title : pest
QLast Update : Fri Jan 12 10:46:46 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l	
24)		Mirex	0.000	0.000	0	0	N.D. d	N.D. d	
25)		Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d	
26)		Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d	
29)	l1	chlordane-1	2.501	2.951	146.2E6	86072539	761.743	735.750	
30)	l1	chlordane-3	2.859	3.424	97800825	54523296	777.912	748.966	
31)	l1	chlordane-4	3.417	4.109	331.6E6	179.0E6	755.517	735.398	
32)	l1	chlordane-5	3.545	4.280	513.8E6	143.3E6	759.372	735.440	
	Sum	chlordane-1			1089.3E6	462.8E6	NoCal	NoCal	D
Average		chlordane-1					763.636	738.888	
34)	l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d	
35)	l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d	
36)	l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d	
37)	l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d	
	Sum	toxaphene-1			0	0	N.D.	N.D.	
Average		toxaphene-1					0.000	0.000	

SemiQuant Compounds - Not Calibrated on this Instrument

	Sum	toxaphene-1			0	0	N.D.	N.D.	
Average		toxaphene-1					0.000	0.000	

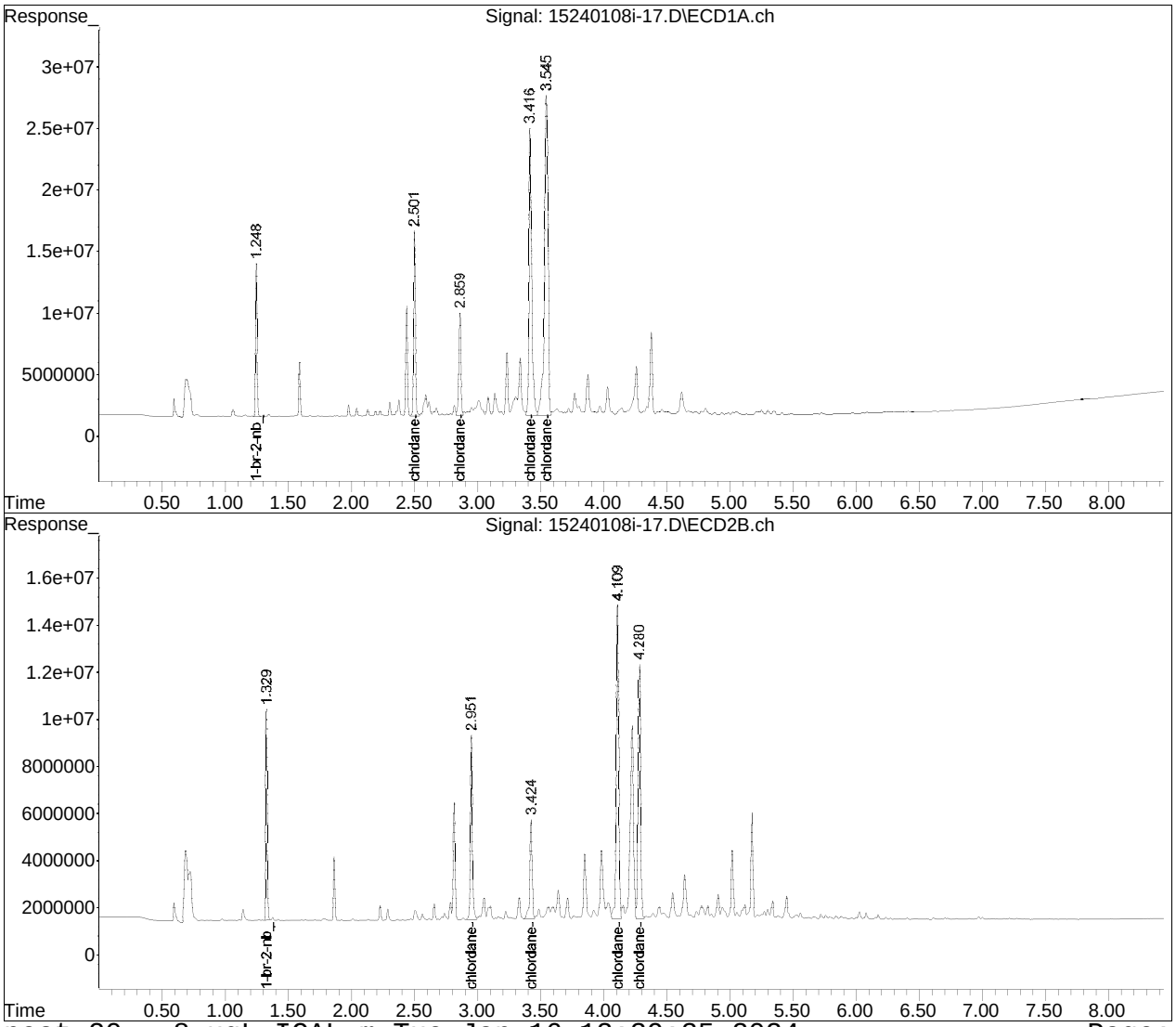
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest15\2024\240108ical\
Data File : 15240108i-17.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 8 Jan 2024 5:46 pm
Operator : Pest15:akm
Sample : il7chlor,42e,,pp 11322 L0.5
Misc : WG1874875, (Sig #1); ical (Sig #2)
ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Jan 12 10:48:54 2024
Quant Method : I:\PEST\Pest15\2024\240108ical\P15_pest_2024_01_08_ugL_ICAL.m
Quant Title : pest
QLast Update : Fri Jan 12 10:46:46 2024
Response via : Initial Calibration
Integrator: ChemStation

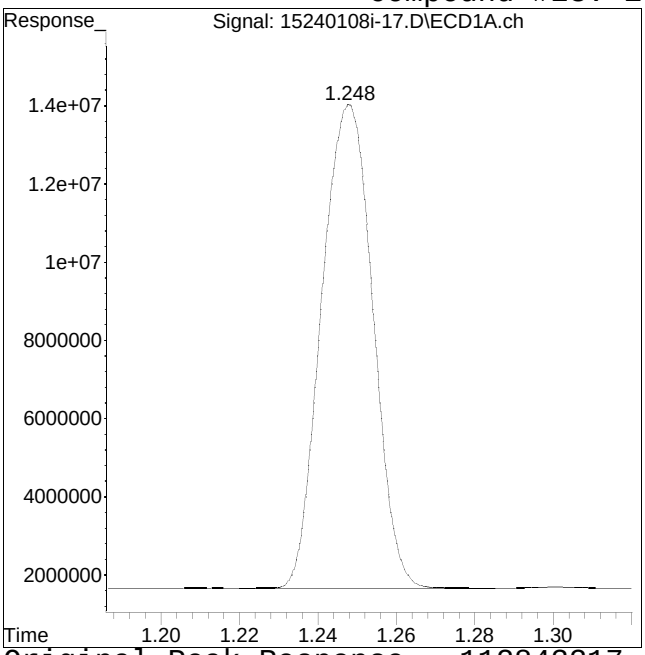
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



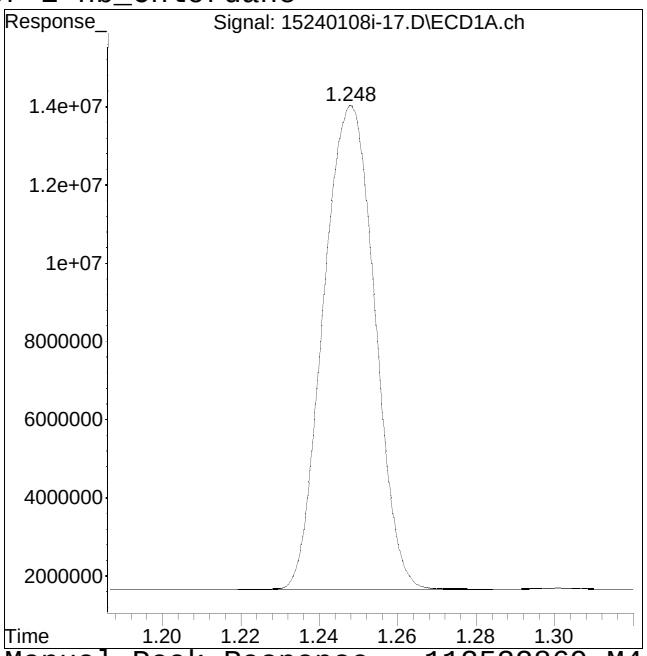
Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240108QMethod : P15_pest_2024_01_08_ugL_
Data File : 15240108i-17.D Operator : Pest15:akm
Date Inj'd : 1/8/2024 5:46 pm Instrument : Pest 15
Sample : il7chlor,42e,,pp 11322 L0.Quant Date : 1/12/2024 10:47 am

Compound #28: 1-br-2-nb_Chlordane



Original Peak Response = 112843317



Manual Peak Response = 112522869 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest15\2024\240108ical\
Data File : 15240108i-18.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 8 Jan 2024 5:58 pm
Operator : Pest15:akm
Sample : il8chlor,42e,,pp 11321 L1.0
Misc : WG1874875, (Sig #1); ical (Sig #2)
ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Jan 16 12:08:34 2024
Quant Method : I:\PEST\Pest15\2024\240108ical\P15_pest_2024_01_08_ugL_ICAL.m
Quant Title : pest
QLast Update : Mon Jan 15 13:12:57 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	1.247	1.329	107.6E6	70441655	25.000	25.000
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
	Target Compounds						
3)	Hexachlorobe	0.000	0.000	0	0	N.D. d	N.D. d
4)	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6)	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8)	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9)	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10)	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11)	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12)	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13)	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14)	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17)	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18)	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22)	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d
23)	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest15\2024\240108ical\
Data File : 15240108i-18.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 8 Jan 2024 5:58 pm
Operator : Pest15:akm
Sample : il8chlor,42e,,pp 11321 L1.0
Misc : WG1874875, (Sig #1); ical (Sig #2)
ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Jan 16 12:08:34 2024
Quant Method : I:\PEST\Pest15\2024\240108ical\P15_pest_2024_01_08_ugL_ICAL.m
Quant Title : pest
QLast Update : Mon Jan 15 13:12:57 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l	
24)		Mirex	0.000	0.000	0	0	N.D. d	N.D. d	
25)		Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d	
26)		Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d	
29)	l1	chlordane-1	2.501	2.951	280.8E6	168.5E6	1068.920	1053.137	
30)	l1	chlordane-3	2.859	3.424	183.5E6	105.6E6	1068.878	1066.908	
31)	l1	chlordane-4	3.417	4.108	636.7E6	348.3E6	1068.651	1054.725	
32)	l1	chlordane-5	3.544	4.280	979.4E6	278.9E6	1070.436	1052.143	
	Sum	chlordane-1			2080.4E6	901.3E6	N.D.	N.D.	D
Average		chlordane-1					1069.221	1056.728	
34)	l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d	
35)	l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d	
36)	l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d	
37)	l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d	
	Sum	toxaphene-1			0	0	N.D.	N.D.	
Average		toxaphene-1					0.000	0.000	

SemiQuant Compounds - Not Calibrated on this Instrument

	Sum	toxaphene-1			0	0	N.D.	N.D.	
Average		toxaphene-1					0.000	0.000	

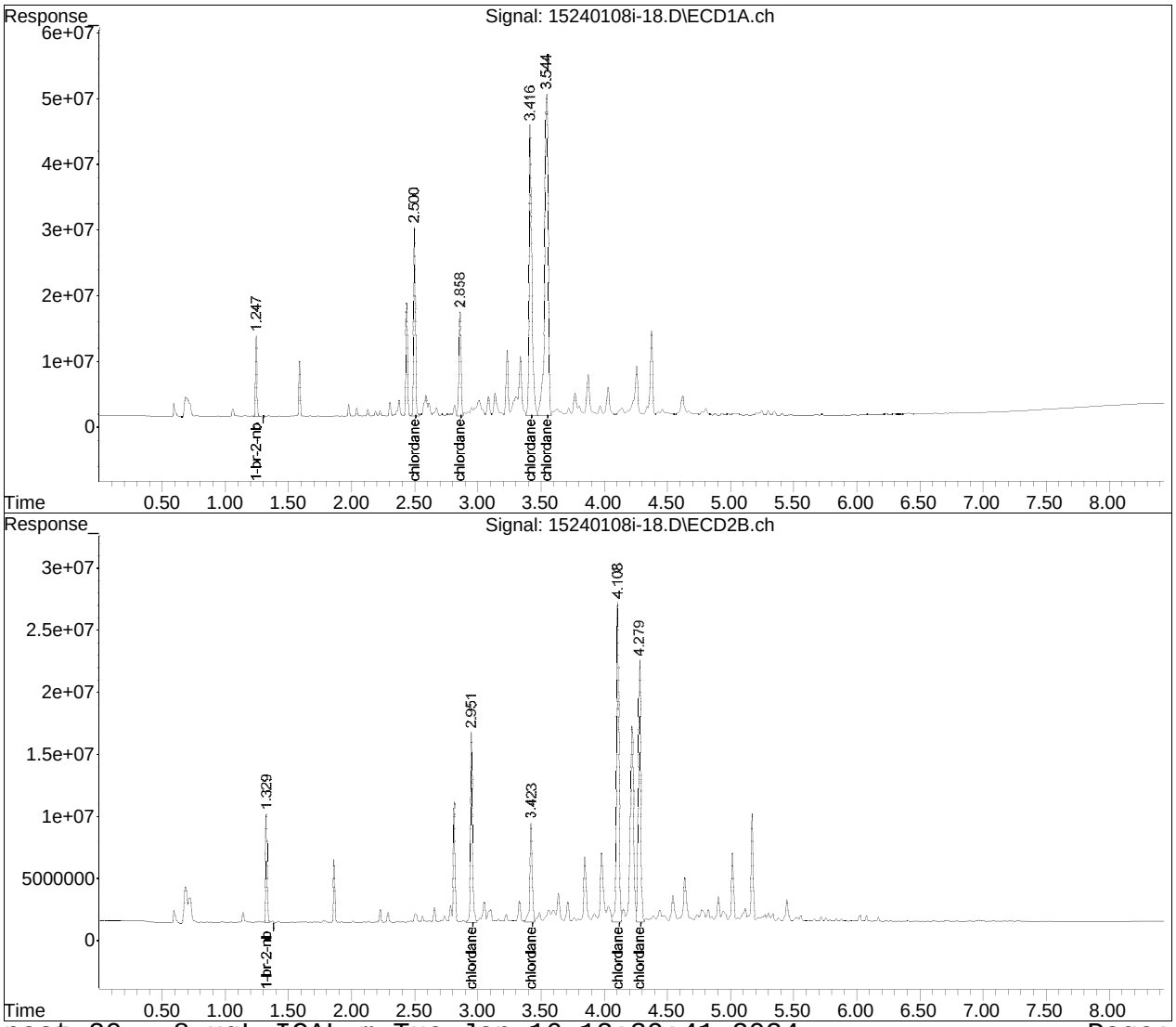
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest15\2024\240108ical\
Data File : 15240108i-18.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 8 Jan 2024 5:58 pm
Operator : Pest15:akm
Sample : il8chlor,42e,,pp 11321 L1.0
Misc : WG1874875, (Sig #1); ical (Sig #2)
ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Jan 16 12:08:34 2024
Quant Method : I:\PEST\Pest15\2024\240108ical\P15_pest_2024_01_08_ugL_ICAL.m
Quant Title : pest
QLast Update : Mon Jan 15 13:12:57 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Manual Integration Report

Data Path	: I:\PEST\Pest15\2024\240108	QMethod	: P15_pest_2024_01_08_ugL_
Data File	: 15240108i-18.D	Operator	: Pest15:akm
Date Inj'd	: 1/8/2024 5:58 pm	Instrument	: Pest 15
Sample	: il8chlor,42e,,pp 11321 L1.	Quant Date	: 1/16/2024 12:08 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest15\2024\240108ical\
Data File : 15240108i-19.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 8 Jan 2024 6:10 pm
Operator : Pest15:akm
Sample : il9chlor,42e,,pp 11320 L2.0
Misc : WG1874875, (Sig #1); ical (Sig #2)
ALS Vial : 19 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Jan 12 10:43:08 2024
Quant Method : I:\PEST\Pest15\2024\240108ical\P15_pest_2024_01_08_ugL_ICAL.m
Quant Title : pest
QLast Update : Fri Jan 12 10:39:18 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	1.249	1.330	121.5E6	78698933	25.000	25.000M3
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
	Target Compounds						
3)	Hexachlorobe	0.000	0.000	0	0	N.D. d	N.D. d
4)	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6)	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8)	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9)	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10)	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11)	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12)	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13)	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14)	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17)	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18)	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22)	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d
23)	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest15\2024\240108ical\
Data File : 15240108i-19.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 8 Jan 2024 6:10 pm
Operator : Pest15:akm
Sample : il9chlor,42e,,pp 11320 L2.0
Misc : WG1874875, (Sig #1); ical (Sig #2)
ALS Vial : 19 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Jan 12 10:43:08 2024
Quant Method : I:\PEST\Pest15\2024\240108ical\P15_pest_2024_01_08_ugL_ICAL.m
Quant Title : pest
QLast Update : Fri Jan 12 10:39:18 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l	
24)		Mirex	0.000	0.000	0	0	N.D. d	N.D. d	
25)		Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d	
26)		Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d	
29)	l1	chlordane-1	2.502	2.951	562.5E6	344.1E6	1773.213	1827.958	
30)	l1	chlordane-3	2.859	3.424	363.6E6	208.8E6	1753.426	1769.895	
31)	l1	chlordane-4	3.417	4.109	1276.8E6	710.5E6	1775.055	1825.757	
32)	l1	chlordane-5	3.545	4.280	1952.9E6	570.5E6	1764.950	1830.827	
	Sum	chlordane-1			4155.8E6	1833.9E6	NoCal	NoCal	D
Average		chlordane-1					1766.661	1813.609	
34)	l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d	
35)	l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d	
36)	l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d	
37)	l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d	
	Sum	toxaphene-1			0	0	N.D.	N.D.	
Average		toxaphene-1					0.000	0.000	

SemiQuant Compounds - Not Calibrated on this Instrument

	Sum	toxaphene-1			0	0	N.D.	N.D.	
Average		toxaphene-1					0.000	0.000	

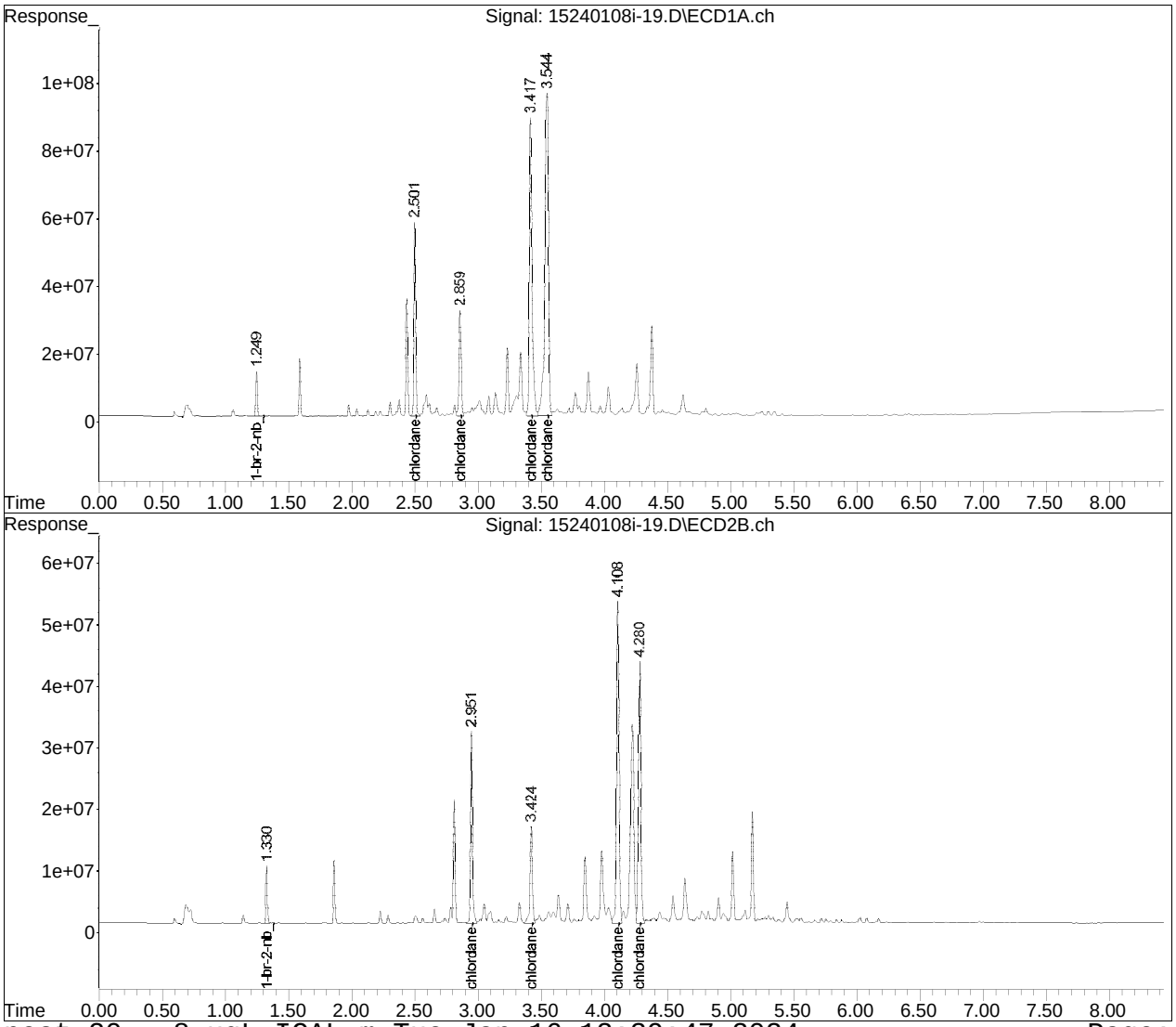
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest15\2024\240108ical\
Data File : 15240108i-19.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 8 Jan 2024 6:10 pm
Operator : Pest15:akm
Sample : il9chlor,42e,,pp 11320 L2.0
Misc : WG1874875, (Sig #1); ical (Sig #2)
ALS Vial : 19 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Jan 12 10:43:08 2024
Quant Method : I:\PEST\Pest15\2024\240108ical\P15_pest_2024_01_08_ugL_ICAL.m
Quant Title : pest
QLast Update : Fri Jan 12 10:39:18 2024
Response via : Initial Calibration
Integrator: ChemStation

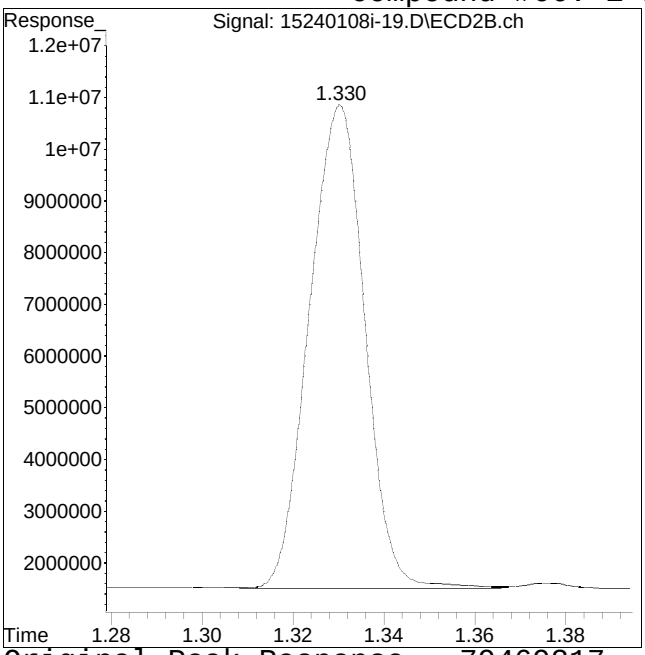
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

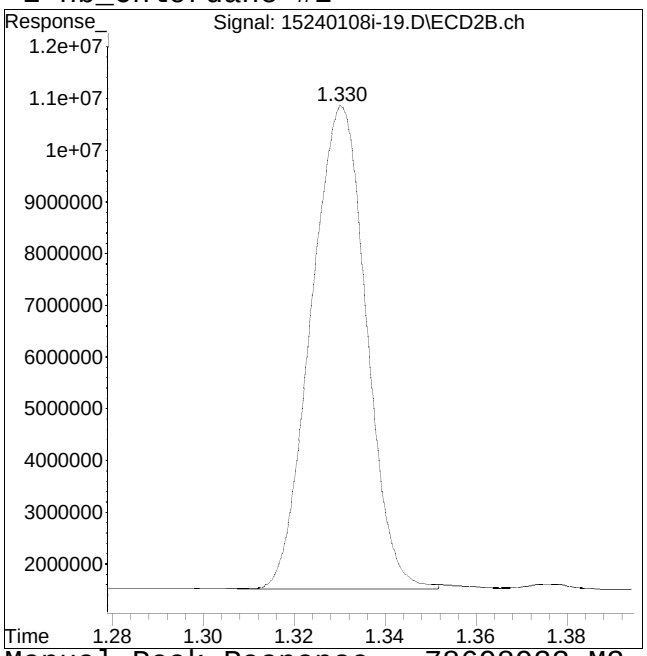


Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240108QMethod : P15_pest_2024_01_08_ugL_
Data File : 15240108i-19.D Operator : Pest15:akm
Date Inj'd : 1/8/2024 6:10 pm Instrument : Pest 15
Sample : il9chlor,42e,,pp 11320 L2.Quant Date : 1/12/2024 10:42 am

Compound #66: 1-br-2-nb_Chlordane #2





Original Peak Response = 79469217 Manual Peak Response = 78698933 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest15\2024\240108ical\
Data File : 15240108i-20.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 8 Jan 2024 6:22 pm
Operator : Pest15:akm
Sample : il10chlor,42e,,pp 11319 L5.0
Misc : WG1874875, (Sig #1); ical (Sig #2)
ALS Vial : 20 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Jan 12 10:44:40 2024
Quant Method : I:\PEST\Pest15\2024\240108ical\P15_pest_2024_01_08_ugL_ICAL.m
Quant Title : pest
QLast Update : Fri Jan 12 10:43:54 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	1.248	1.330	119.7E6	78523100	25.000M4	25.000M4
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
	Target Compounds						
3)	Hexachlorobe	0.000	0.000	0	0	N.D. d	N.D. d
4)	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6)	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8)	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9)	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10)	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11)	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12)	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13)	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14)	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17)	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18)	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22)	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest15\2024\240108ical\
Data File : 15240108i-20.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 8 Jan 2024 6:22 pm
Operator : Pest15:akm
Sample : il10chlor,42e,,pp 11319 L5.0
Misc : WG1874875, (Sig #1); ical (Sig #2)
ALS Vial : 20 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Jan 12 10:44:40 2024
Quant Method : I:\PEST\Pest15\2024\240108ical\P15_pest_2024_01_08_ugL_ICAL.m
Quant Title : pest
QLast Update : Fri Jan 12 10:43:54 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l	
23)		Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d	
24)		Mirex	0.000	0.000	0	0	N.D. d	N.D. d	
25)		Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d	
26)		Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d	
29)	l1	chlordane-1	2.501	2.952	1353.5E6	853.7E6	4589.827	4750.025	
30)	l1	chlordane-3	2.859	3.425	867.5E6	512.7E6	4524.589	4621.075	
31)	l1	chlordane-4	3.417	4.110	3122.9E6	1782.8E6	4668.124	4800.929	
32)	l1	chlordane-5	3.544	4.280	4739.5E6	1431.8E6	4617.989	4808.388	
	Sum	chlordane-1			10083.4E6	4581.1E6	NoCal	NoCal	D
Average		chlordane-1					4600.132	4745.104	
34)	l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d	
35)	l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d	
36)	l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d	
37)	l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d	
	Sum	toxaphene-1			0	0	N.D.	N.D.	
Average		toxaphene-1					0.000	0.000	

SemiQuant Compounds - Not Calibrated on this Instrument

	Sum	toxaphene-1			0	0	N.D.	N.D.	
Average		toxaphene-1					0.000	0.000	

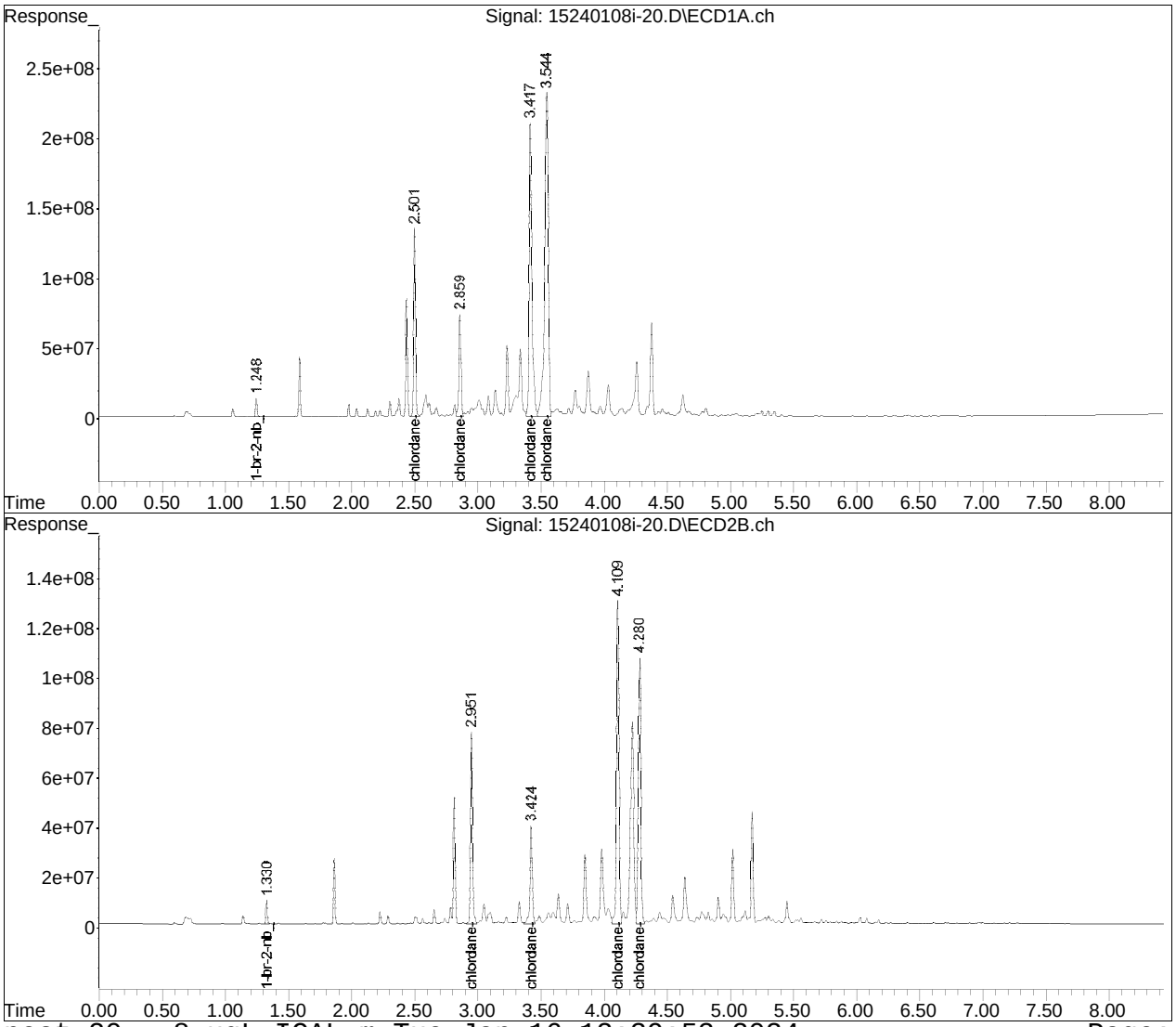
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest15\2024\240108ical\
Data File : 15240108i-20.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 8 Jan 2024 6:22 pm
Operator : Pest15:akm
Sample : il10chlor,42e,,pp 11319 L5.0
Misc : WG1874875, (Sig #1); ical (Sig #2)
ALS Vial : 20 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Jan 12 10:44:40 2024
Quant Method : I:\PEST\Pest15\2024\240108ical\P15_pest_2024_01_08_ugL_ICAL.m
Quant Title : pest
QLast Update : Fri Jan 12 10:43:54 2024
Response via : Initial Calibration
Integrator: ChemStation

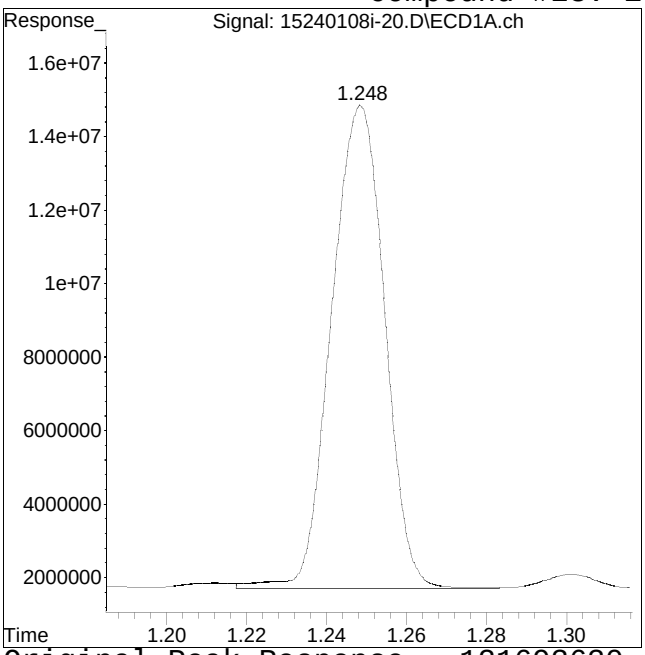
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

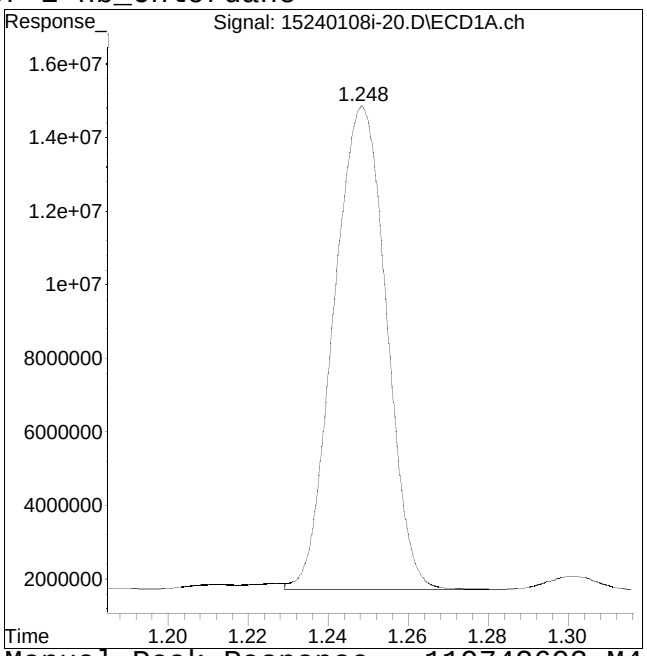


Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240108QMethod : P15_pest_2024_01_08_ugL_
Data File : 15240108i-20.D Operator : Pest15:akm
Date Inj'd : 1/8/2024 6:22 pm Instrument : Pest 15
Sample : il10chlor,42e,,pp 11319 L5Quant Date : 1/12/2024 10:44 am

Compound #28: 1-br-2-nb_Chlordane



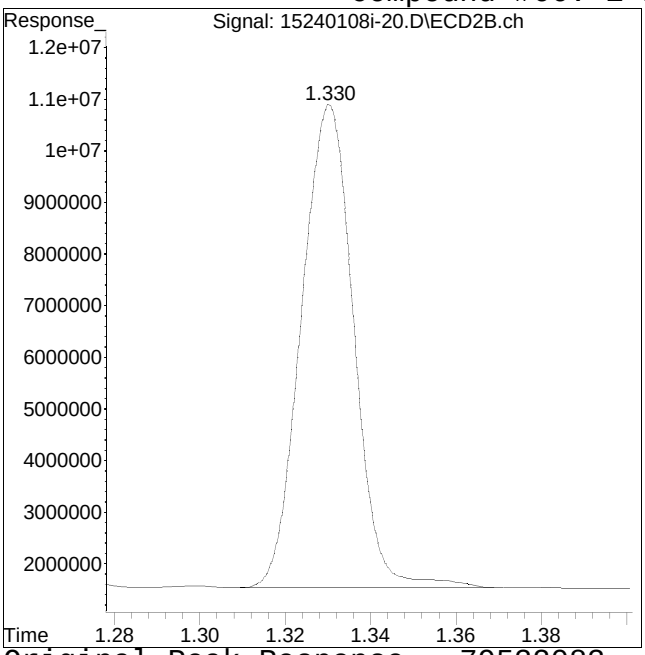


Original Peak Response = 121693630 Manual Peak Response = 119742692 M4
M4 = Poor automated baseline construction.

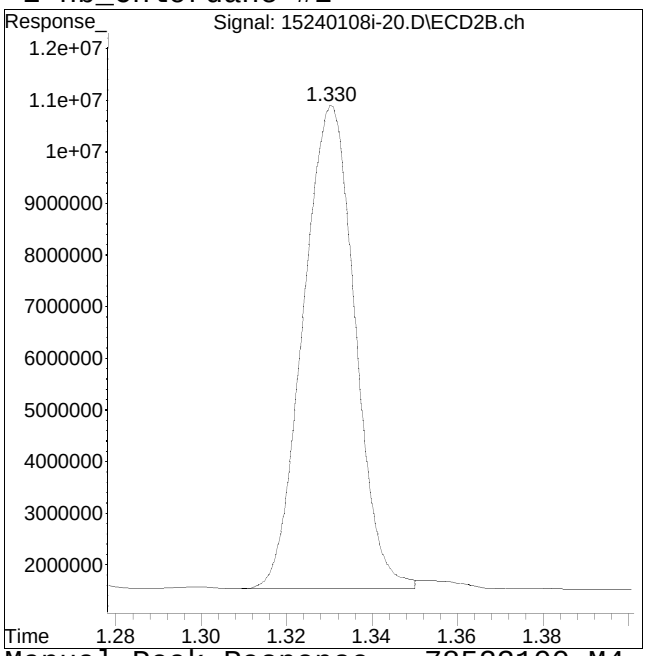
Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240108QMethod : P15_pest_2024_01_08_ugL_
Data File : 15240108i-20.D Operator : Pest15:akm
Date Inj'd : 1/8/2024 6:22 pm Instrument : Pest 15
Sample : il10chlor,42e,,pp 11319 L5Quant Date : 1/12/2024 10:44 am

Compound #66: 1-br-2-nb_Chlordane #2



Original Peak Response = 79532083



Manual Peak Response = 78523100 M4

M4 = Poor automated baseline construction.

Initial Calibration Verification

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest15\2024\240108ical\
Data File : 15240108i-21.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 8 Jan 2024   6:34 pm
Operator : Pest15:akm
Sample   : cicvchlor,42e,,pp 117437 L1.0ICV
Misc   : WG1874875, (Sig #1); ical (Sig #2)
ALS Vial : 21   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Jan 16 12:25:29 2024
Quant Method : I:\PEST\Pest15\2024\240108ical\P15_pest_2024_01_08_ugL_ICAL.m
Quant Title : pest
QLast Update : Tue Jan 16 12:25:37 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
28	i	1-br-2-nb_Chlordane	^	1.000	1.000	0.0	103	0.00
29	l1	chlordane-1		*1000.000	777.013	22.3#	78	0.00
30	l1	chlordane-3		*1000.000	935.866	6.4	94	0.00
31	l1	chlordane-4		*1000.000	952.356	4.8	95	0.00
32	l1	chlordane-5		*1000.000	1054.741	-5.5	105	0.00

Signal #2

28	i	1-br-2-nb_Chlordane	^	1.000	1.000	0.0	102	0.00
29	l1	chlordane-1		*1000.000	790.271	21.0#	79	0.00
30	l1	chlordane-3		*1000.000	956.807	4.3	94	0.00
31	l1	chlordane-4		*1000.000	933.549	6.6	93	0.00
32	l1	chlordane-5		*1000.000	900.538	9.9	90	0.00

Evaluate Continuing Calibration Report - Not Founds

1	i	1-br-2-nb_Pesticides	^	1.000	1.000	0.0	0	-1.25#
2	s	2,4,5,6-Tetrachloro-m-xylen		1.059	0.000	100.0#	0#	-1.62#
3		Hexachlorobenzene		* 50.000	0.000	100.0#	0	-1.84#
4		alpha-BHC		1.372	0.000	100.0#	0#	-1.94#
5		gamma-BHC (lindane)		1.300	0.000	100.0#	0#	-2.15#
6		beta-BHC		* 50.000	0.000	100.0#	0	-2.21#
7		delta-BHC		1.290	0.000	100.0#	0#	-2.34#
8		Heptachlor		1.288	0.000	100.0#	0#	-2.50#
9		Aldrin		1.180	0.000	100.0#	0#	-2.75#
10		Alachlor		* 50.000	0.000	100.0#	0	-2.87#
11		Chlorpyrifos		* 50.000	0.000	100.0#	0	-2.96#
12		Heptachlor Epoxide		1.170	0.000	100.0#	0#	-3.29#
13		gamma-Chlordane (trans)		1.067	0.000	100.0#	0#	-3.42#

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest15\2024\240108ical\
Data File : 15240108i-21.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 8 Jan 2024   6:34 pm
Operator : Pest15:akm
Sample   : cicvchlor,42e,,pp 117437 L1.0ICV
Misc   : WG1874875, (Sig #1); ical (Sig #2)
ALS Vial : 21   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Jan 16 12:25:29 2024
Quant Method : I:\PEST\Pest15\2024\240108ical\P15_pest_2024_01_08_ugL_ICAL.m
Quant Title : pest
QLast Update : Tue Jan 16 12:25:37 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
14		alpha-Chlordane (cis)		1.220	0.000	100.0#	0#	-3.55#
15		4,4'-DDE		1.136	0.000	100.0#	0#	-3.65#
16		Endosulfan I		1.101	0.000	100.0#	0#	-3.69#
17		Dieldrin		1.136	0.000	100.0#	0#	-3.95#
18		Endrin		1.167	0.000	100.0#	0#	-4.20#
19		4,4'-DDD		1.008	0.000	100.0#	0#	-4.32#
20		Endosulfan II		1.031	0.000	100.0#	0#	-4.45#
21		4,4'-DDT	*	50.000	0.000	100.0#	0	-4.61#
22		Endrin Aldehyde	*	50.000	0.000	100.0#	0	-4.87#
23		Methoxychlor		0.603	0.000	100.0#	0#	-5.10#
24		Mirex		0.959	0.000	100.0#	0#	-5.16#
25		Endosulfan Sulfate		0.991	0.000	100.0#	0#	-5.26#
26		Endrin Ketone		1.132	0.000	100.0#	0#	-5.49#
27	s	Decachlorobiphenyl		1.030	0.000	100.0#	0#	-6.30#
33	i	1-br-2-nb_Toxaphene	^	1.000	1.000	0.0	0	-1.25#
34	l2	toxaphene-1	*	2000.000	0.000	100.0#	0	-4.44#
35	l2	toxaphene-2	*	2000.000	0.000	100.0#	0	-4.56#
36	l2	toxaphene-4	*	2000.000	0.000	100.0#	0	-4.98#
37	l2	toxaphene-5	*	2000.000	0.000	100.0#	0	-5.17#

Signal #2

1	i	1-br-2-nb_Pesticides	^	1.000	1.000	0.0	0	-1.33#
2	s	2,4,5,6-Tetrachloro-m-xyl		1.101	0.000	100.0#	0#	-1.84#
3		Hexachlorobenzene	*	50.000	0.000	100.0#	0	-2.16#
4		alpha-BHC		1.361	0.000	100.0#	0#	-2.26#
5		gamma-BHC (lindane)		1.297	0.000	100.0#	0#	-2.55#
6		beta-BHC	*	50.000	0.000	100.0#	0	-2.62#
7		delta-BHC	*	50.000	0.000	100.0#	0	-2.89#

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest15\2024\240108ical\
Data File : 15240108i-21.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 8 Jan 2024   6:34 pm
Operator : Pest15:akm
Sample   : cicvchlor,42e,,pp 117437 L1.0ICV
Misc   : WG1874875, (Sig #1); ical (Sig #2)
ALS Vial : 21   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Jan 16 12:25:29 2024
Quant Method : I:\PEST\Pest15\2024\240108ical\P15_pest_2024_01_08_ugL_ICAL.m
Quant Title : pest
QLast Update : Tue Jan 16 12:25:37 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
8		Heptachlor		1.233	0.000	100.0#	0#	-2.95#
9		Aldrin		1.157	0.000	100.0#	0#	-3.27#
10		Alachlor	*	50.000	0.000	100.0#	0	-3.16#
11		Chlorpyrifos	*	50.000	0.000	100.0#	0	-3.51#
12		Heptachlor Epoxide	*	50.000	0.000	100.0#	0	-3.89#
13		gamma-Chlordane (trans)		1.034	0.000	100.0#	0#	-4.11#
14		alpha-Chlordane (cis)	*	50.000	0.000	100.0#	0	-4.28#
15		4,4'-DDE		1.115	0.000	100.0#	0#	-4.48#
16		Endosulfan I	*	50.000	0.000	100.0#	0	-4.34#
17		Dieldrin		1.067	0.000	100.0#	0#	-4.63#
18		Endrin	*	50.000	0.000	100.0#	0	-4.93#
19		4,4'-DDD	*	50.000	0.000	100.0#	0	-5.06#
20		Endosulfan II	*	50.000	0.000	100.0#	0	-5.13#
21		4,4'-DDT	*	50.000	0.000	100.0#	0	-5.34#
22		Endrin Aldehyde	*	50.000	0.000	100.0#	0	-5.43#
23		Methoxychlor	*	50.000	0.000	100.0#	0	-5.90#
24		Mirex	*	50.000	0.000	100.0#	0	-6.04#
25		Endosulfan Sulfate	*	50.000	0.000	100.0#	0	-5.66#
26		Endrin Ketone		1.028	0.000	100.0#	0#	-6.07#
27	s	Decachlorobiphenyl	*	50.000	0.000	100.0#	0	-6.94#
33	i	1-br-2-nb_Toxaphene	^	1.000	1.000	0.0	0	-1.33#
34	l2	toxaphene-1	*	2000.000	0.000	100.0#	0	-5.09#
35	l2	toxaphene-2	*	2000.000	0.000	100.0#	0	-5.12#
36	l2	toxaphene-4	*	2000.000	0.000	100.0#	0	-5.44#
37	l2	toxaphene-5	*	2000.000	0.000	100.0#	0	-5.85#

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0
(^) = ISTD area calculated using ICAL average

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest15\2024\240108ical\
Data File : 15240108i-21.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 8 Jan 2024 6:34 pm
Operator : Pest15:akm
Sample : cicvchlor,42e,,pp 117437 L1.0ICV
Misc : WG1874875, (Sig #1); ical (Sig #2)
ALS Vial : 21 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Jan 16 12:25:29 2024
Quant Method : I:\PEST\Pest15\2024\240108ical\P15_pest_2024_01_08_ugL_ICAL.m
Quant Title : pest
QLast Update : Tue Jan 16 12:25:37 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	1.248	1.330	114.8E6	73647846	25.000	25.000M3
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
	Target Compounds						
3)	Hexachlorobe	0.000	0.000	0	0	N.D. d	N.D. d
4)	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6)	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8)	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9)	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10)	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11)	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12)	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13)	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14)	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17)	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18)	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22)	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d
23)	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest15\2024\240108ical\
Data File : 15240108i-21.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 8 Jan 2024 6:34 pm
Operator : Pest15:akm
Sample : cicvchlor,42e,,pp 117437 L1.0ICV
Misc : WG1874875, (Sig #1); ical (Sig #2)
ALS Vial : 21 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Jan 16 12:25:29 2024
Quant Method : I:\PEST\Pest15\2024\240108ical\P15_pest_2024_01_08_ugL_ICAL.m
Quant Title : pest
QLast Update : Tue Jan 16 12:25:37 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
24)	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25)	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26)	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	2.501	2.951	218.3E6	132.4E6	777.013	790.271
30) l1	chlordane-3	2.859	3.424	171.7E6	99116635	935.866	956.807
31) l1	chlordane-4	3.417	4.109	606.1E6	322.5E6	952.356	933.549
32) l1	chlordane-5	3.540	4.280	1030.5E6	249.8E6	1054.741	900.538
Sum	chlordane-1			2026.5E6	803.9E6	N.D.	N.D. D
Average	chlordane-1					929.994	895.291
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

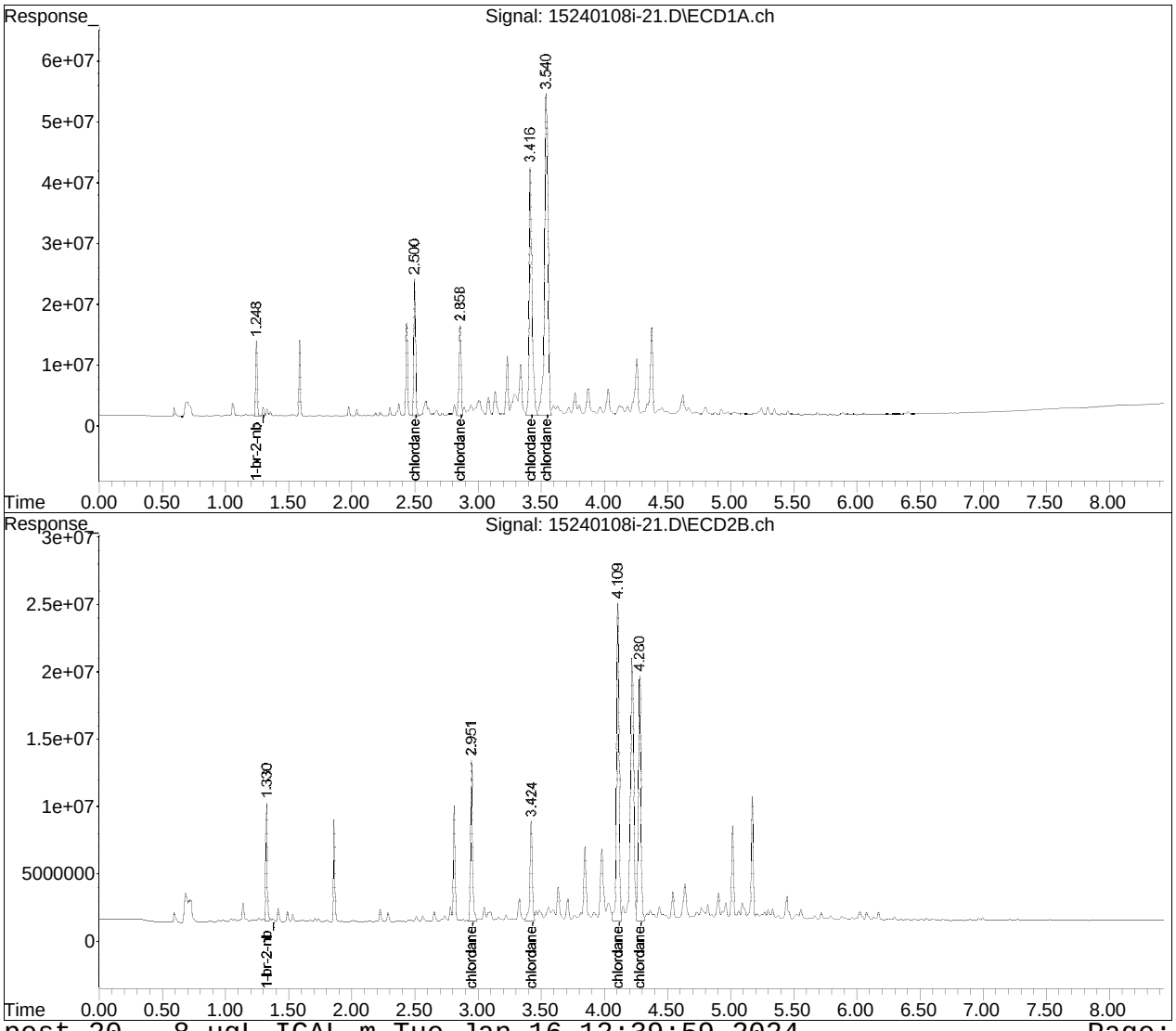
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest15\2024\240108ical\
Data File : 15240108i-21.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 8 Jan 2024 6:34 pm
Operator : Pest15:akm
Sample : cicvchlor,42e,,pp 117437 L1.0ICV
Misc : WG1874875, (Sig #1); ical (Sig #2)
ALS Vial : 21 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Jan 16 12:25:29 2024
Quant Method : I:\PEST\Pest15\2024\240108ical\P15_pest_2024_01_08_ugL_ICAL.m
Quant Title : pest
QLast Update : Tue Jan 16 12:25:37 2024
Response via : Initial Calibration
Integrator: ChemStation

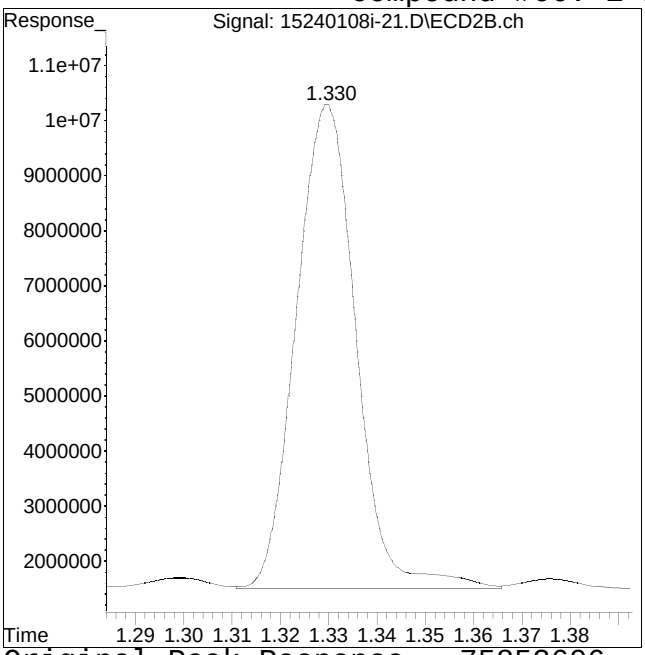
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

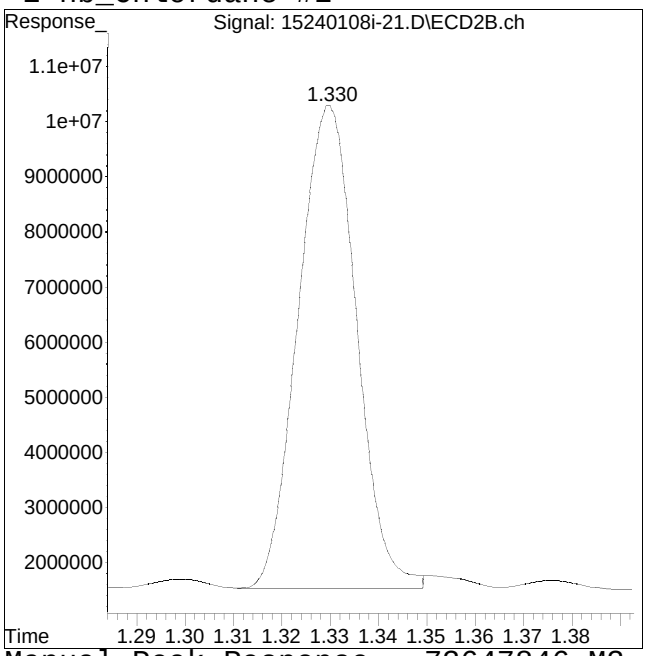


Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240108QMethod : P15_pest_2024_01_08_ugL_
Data File : 15240108i-21.D Operator : Pest15:akm
Date Inj'd : 1/8/2024 6:34 pm Instrument : Pest 15
Sample : cicvchlor,42e,,pp 117437 LQuant Date : 1/16/2024 12:25 pm

Compound #66: 1-br-2-nb_Chlordane #2





Original Peak Response = 75852606 Manual Peak Response = 73647846 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest15\2024\240108ical\
Data File : 15240108i-22.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 8 Jan 2024 6:45 pm
Operator : Pest15:akm
Sample : il3tox,42e,,pp 11328 L0.02
Misc : WG1874875, (Sig #1); ical (Sig #2)
ALS Vial : 22 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Jan 15 13:11:31 2024
Quant Method : I:\PEST\Pest15\2024\240108ical\P15_pest_2024_01_08_ugL_ICAL.m
Quant Title : pest
QLast Update : Fri Jan 12 11:51:16 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	1.250	1.331	120.7E6	79203520	25.000	25.000
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D.	N.D.
	Spiked Amount 50.000	Range 30 - 150		Recovery =		0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount 50.000	Range 30 - 150		Recovery =		0.00%#	0.00%#
	Target Compounds						
3)	Hexachlorobe	0.000	0.000	0	0	N.D.	N.D.
4)	alpha-BHC	0.000	0.000	0	0	N.D.	N.D.
5)	gamma-BHC (l	0.000	0.000	0	0	N.D.	N.D.
6)	beta-BHC	0.000	0.000	0	0	N.D.	N.D.
7)	delta-BHC	0.000	0.000	0	0	N.D.	N.D.
8)	Heptachlor	0.000	0.000	0	0	N.D.	N.D.
9)	Aldrin	0.000	0.000	0	0	N.D.	N.D.
10)	Alachlor	0.000	0.000	0	0	N.D.	N.D.
11)	Chlorpyrifos	0.000	0.000	0	0	N.D.	N.D.
12)	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13)	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14)	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17)	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18)	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22)	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d
23)	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest15\2024\240108ical\
Data File : 15240108i-22.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 8 Jan 2024 6:45 pm
Operator : Pest15:akm
Sample : il3tox,42e,,pp 11328 L0.02
Misc : WG1874875, (Sig #1); ical (Sig #2)
ALS Vial : 22 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Jan 15 13:11:31 2024
Quant Method : I:\PEST\Pest15\2024\240108ical\P15_pest_2024_01_08_ugL_ICAL.m
Quant Title : pest
QLast Update : Fri Jan 12 11:51:16 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
24)		Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25)		Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26)		Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29)	l1	chlordane-1	0.000	0.000	0	0	N.D.	N.D.
30)	l1	chlordane-3	0.000	0.000	0	0	N.D.	N.D.
31)	l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32)	l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
		Sum chlordane-1			0	0	N.D.	N.D.
		Average chlordane-1					0.000	0.000
34)	l2	toxaphene-1	4.437	5.091	2876095	818672	13.275M4	12.506M4
35)	l2	toxaphene-2	4.561	5.120	2589017	1579576	12.123M4	16.143M4
36)	l2	toxaphene-4	4.980	5.438	1888782	1797049	10.632M4	15.361M4
37)	l2	toxaphene-5	5.166	5.849	3151906	1767168	15.346M4	16.767M4
		Sum toxaphene-1			10505801	5962466	51.375	60.778
		Average toxaphene-1					12.844	15.194

SemiQuant Compounds - Not Calibrated on this Instrument

		Sum toxaphene-1			10505801	5962466	51.375	60.778
		Average toxaphene-1					12.844	15.194

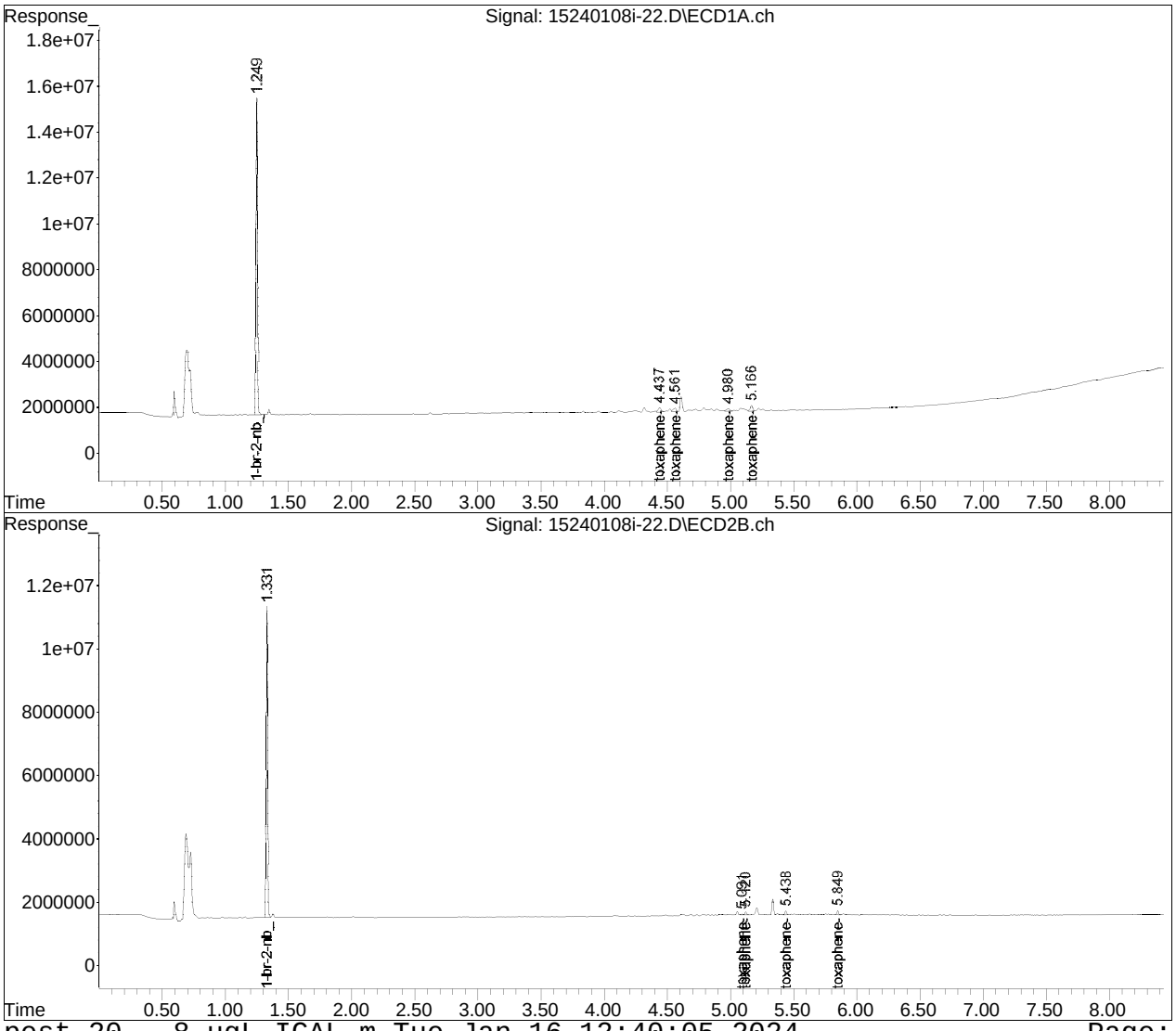
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest15\2024\240108ical\
Data File : 15240108i-22.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 8 Jan 2024 6:45 pm
Operator : Pest15:akm
Sample : il3tox,42e,,pp 11328 L0.02
Misc : WG1874875, (Sig #1); ical (Sig #2)
ALS Vial : 22 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Jan 15 13:11:31 2024
Quant Method : I:\PEST\Pest15\2024\240108ical\P15_pest_2024_01_08_ugL_ICAL.m
Quant Title : pest
QLast Update : Fri Jan 12 11:51:16 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

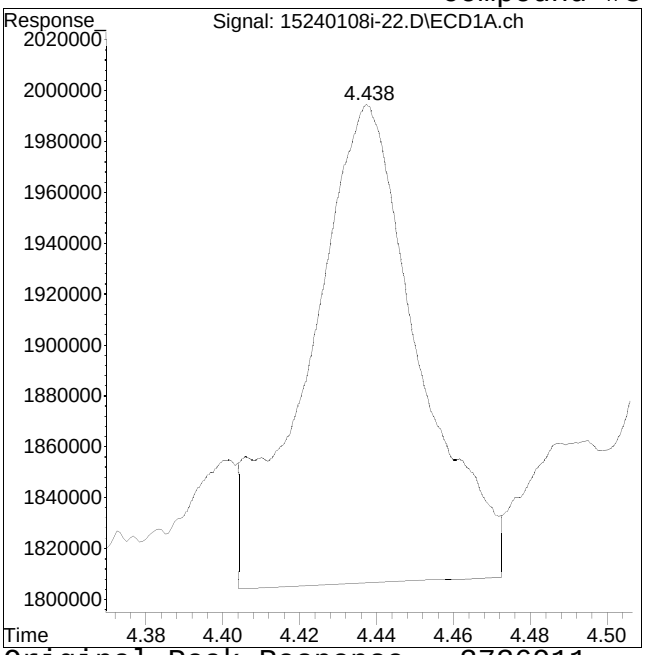


Manual Integration Report

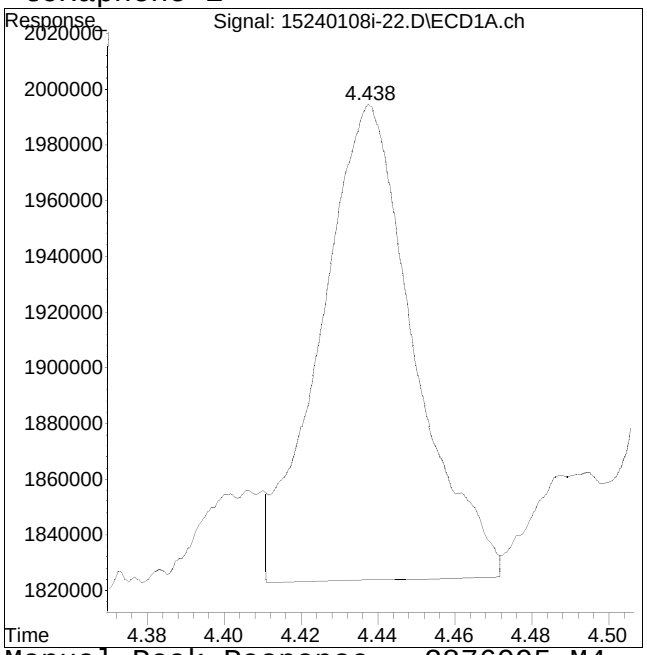
Data Path : I:\PEST\Pest15\2024\240108Q
Data File : 15240108i-22.D
Date Inj'd : 1/8/2024 6:45 pm
Sample : il3tox,42e,,pp 11328 L0.02

Method : P15_pest_2024_01_08_ugL_
Operator : Pest15:akm
Instrument : Pest 15
Quant Date : 1/12/2024 11:51 am

Compound #34: toxaphene-1



Original Peak Response = 3736911



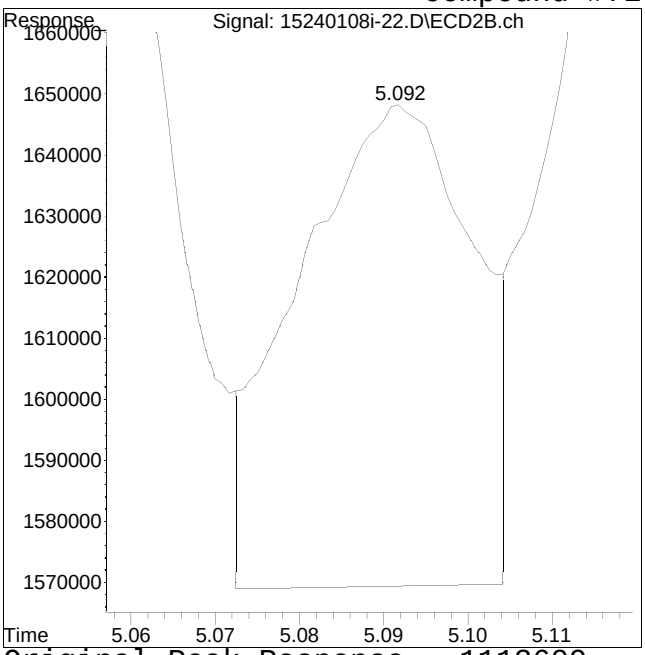
Manual Peak Response = 2876095 M4

M4 = Poor automated baseline construction.

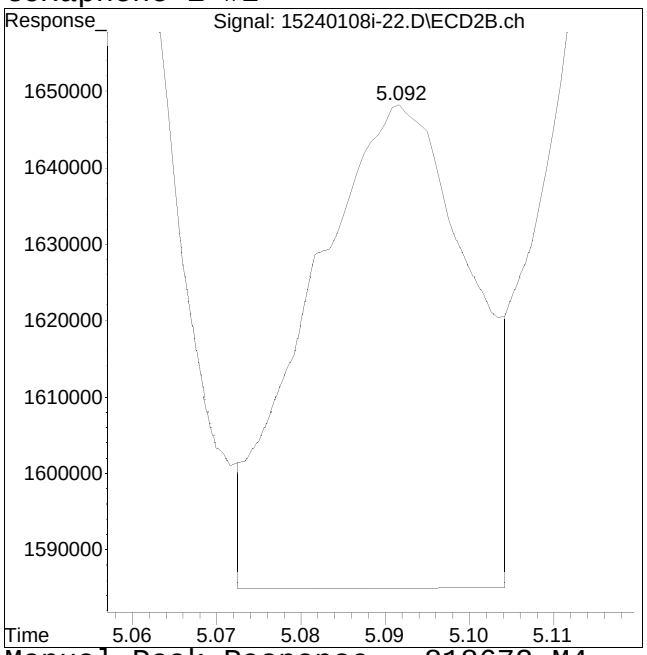
Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240108QMethod : P15_pest_2024_01_08_ugL_
Data File : 15240108i-22.D Operator : Pest15:akm
Date Inj'd : 1/8/2024 6:45 pm Instrument : Pest 15
Sample : il3tox,42e,,pp 11328 L0.02Quant Date : 1/12/2024 11:51 am

Compound #72: toxaphene-1 #2



Original Peak Response = 1113609



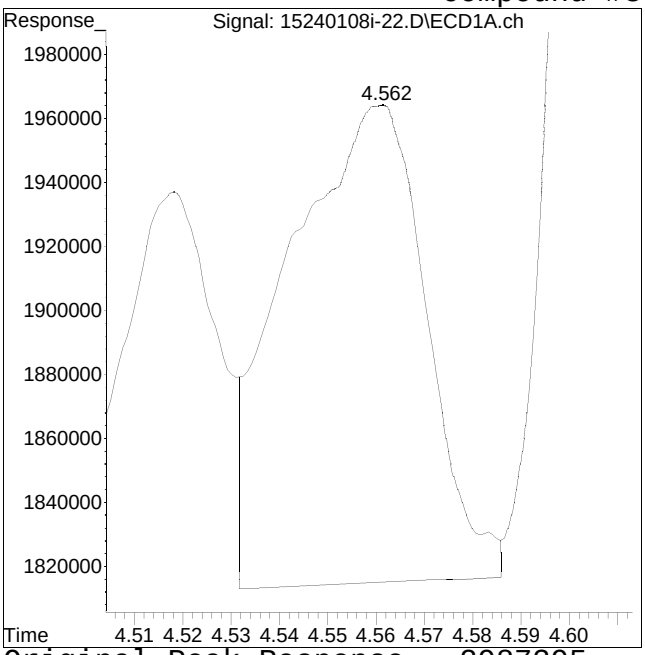
Manual Peak Response = 818672 M4

M4 = Poor automated baseline construction.

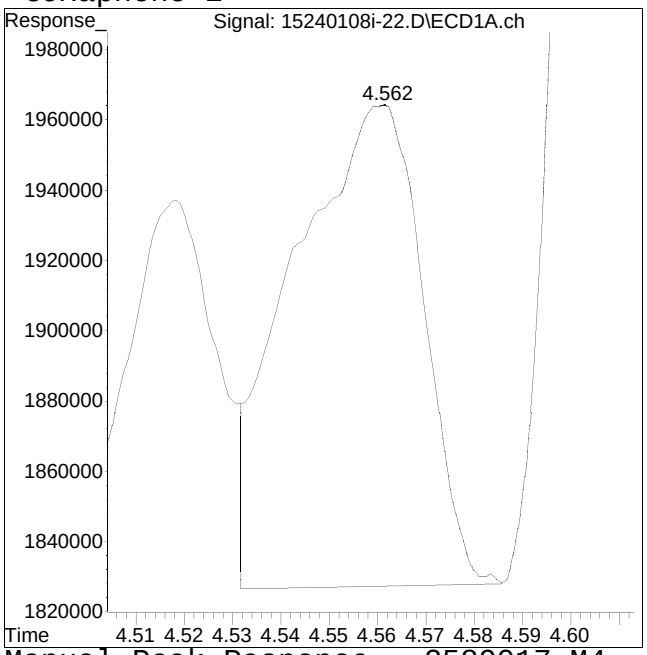
Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240108QMethod : P15_pest_2024_01_08_ugL_
Data File : 15240108i-22.D Operator : Pest15:akm
Date Inj'd : 1/8/2024 6:45 pm Instrument : Pest 15
Sample : il3tox,42e,,pp 11328 L0.02Quant Date : 1/12/2024 11:51 am

Compound #35: toxaphene-2



Original Peak Response = 2987395



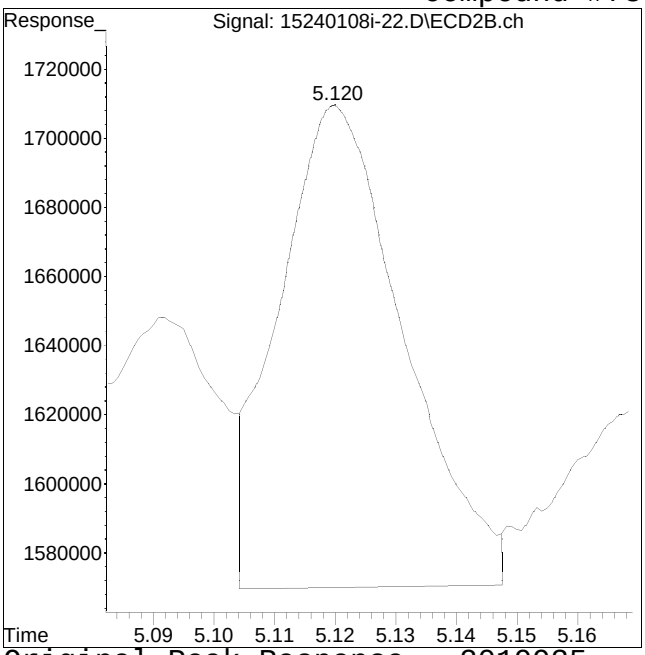
Manual Peak Response = 2589017 M4

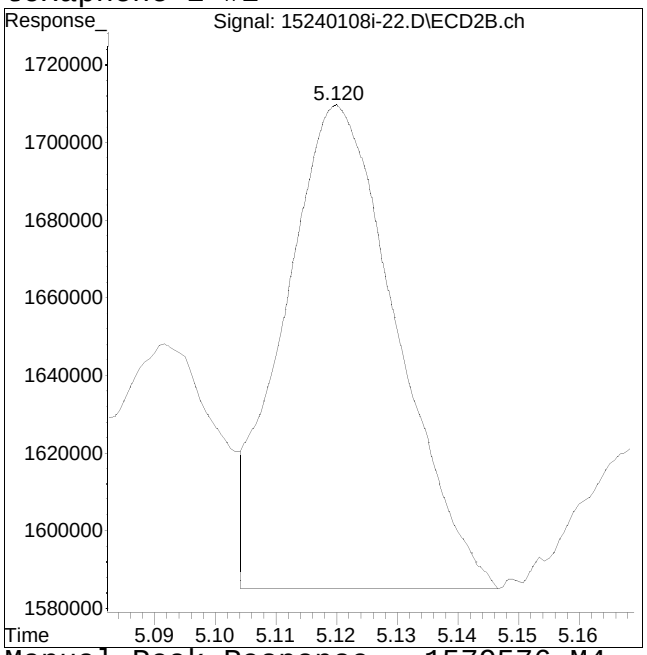
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240108QMethod : P15_pest_2024_01_08_ugL_
Data File : 15240108i-22.D Operator : Pest15:akm
Date Inj'd : 1/8/2024 6:45 pm Instrument : Pest 15
Sample : il3tox,42e,,pp 11328 L0.02Quant Date : 1/12/2024 11:51 am

Compound #73: toxaphene-2 #2



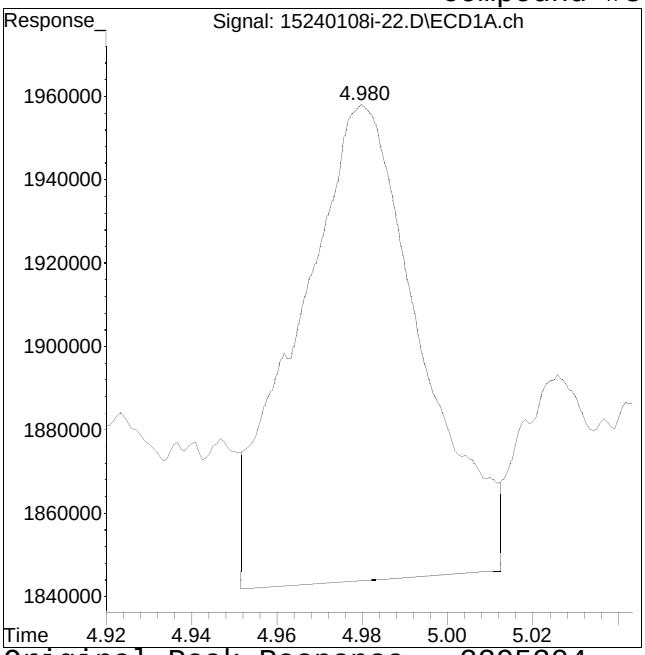


Original Peak Response = 2019935 Manual Peak Response = 1579576 M4
M4 = Poor automated baseline construction.

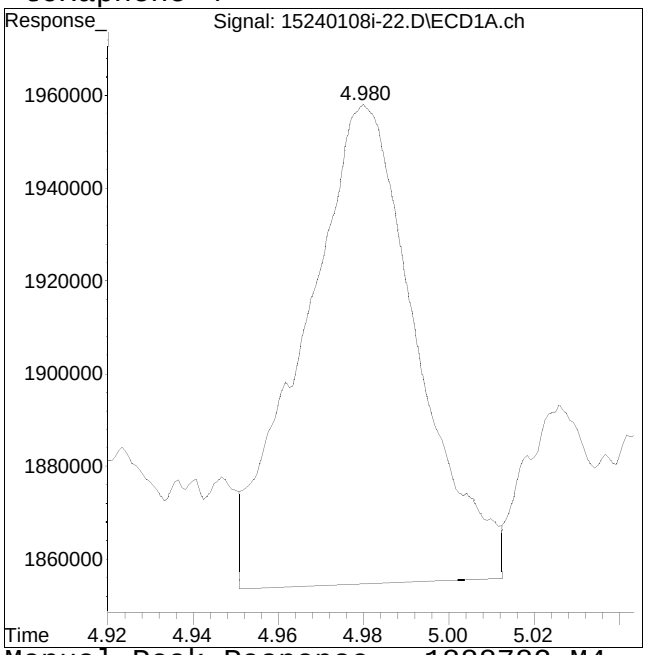
Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240108QMethod : P15_pest_2024_01_08_ugL_
Data File : 15240108i-22.D Operator : Pest15:akm
Date Inj'd : 1/8/2024 6:45 pm Instrument : Pest 15
Sample : il3tox,42e,,pp 11328 L0.02Quant Date : 1/12/2024 11:51 am

Compound #36: toxaphene-4



Original Peak Response = 2295304



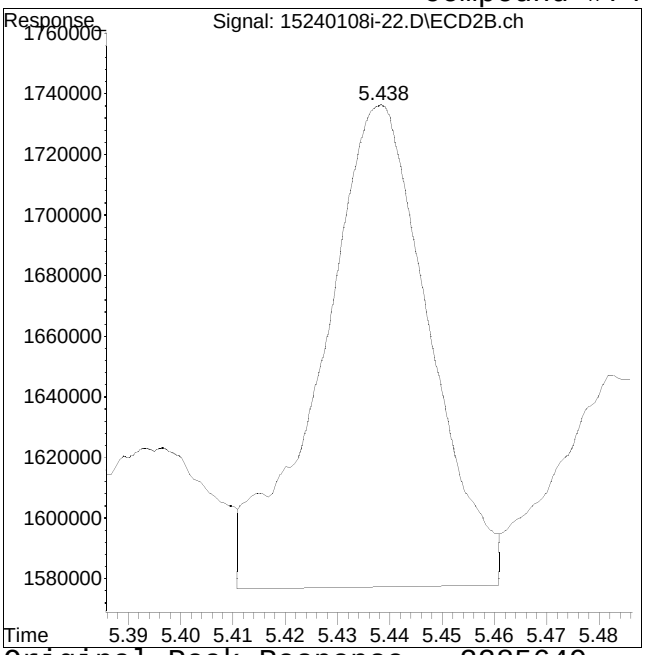
Manual Peak Response = 1888782 M4

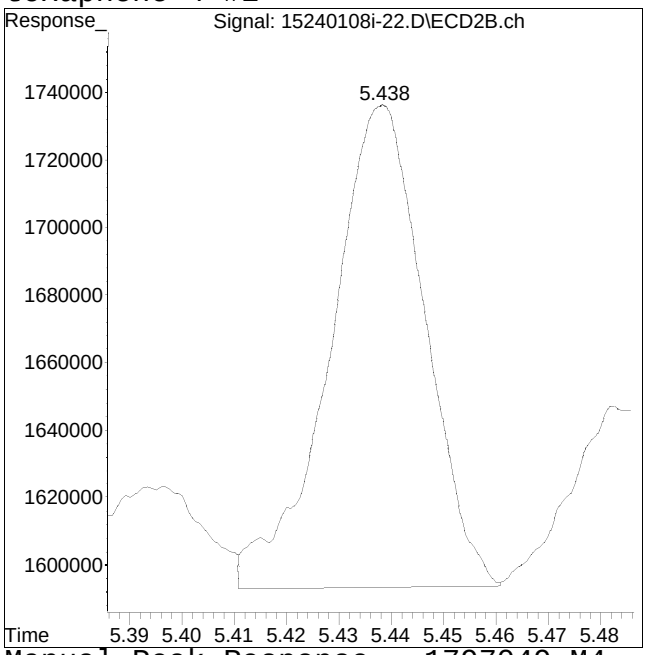
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240108QMethod : P15_pest_2024_01_08_ugL_
Data File : 15240108i-22.D Operator : Pest15:akm
Date Inj'd : 1/8/2024 6:45 pm Instrument : Pest 15
Sample : il3tox,42e,,pp 11328 L0.02Quant Date : 1/12/2024 11:51 am

Compound #74: toxaphene-4 #2



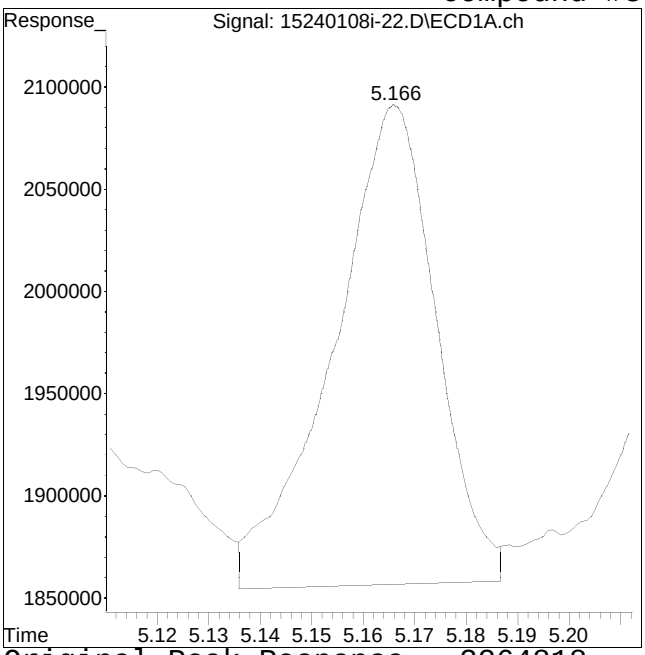


Original Peak Response = 2285649 Manual Peak Response = 1797049 M4
M4 = Poor automated baseline construction.

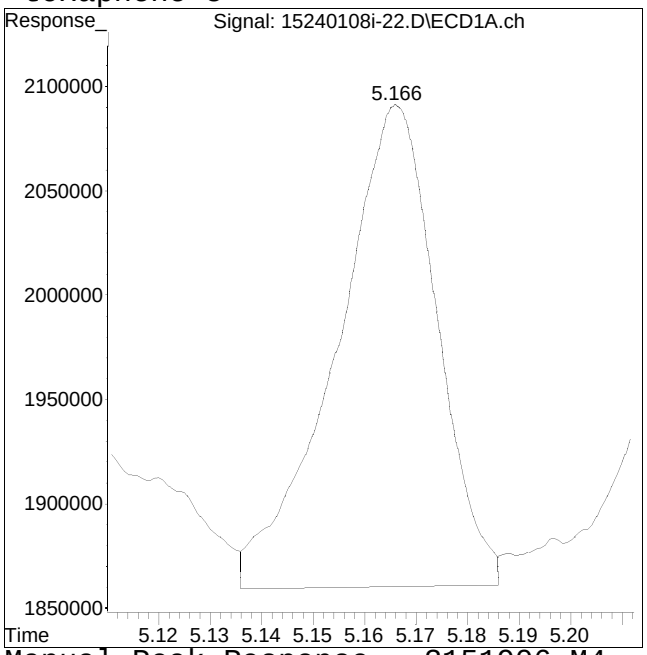
Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240108Q
Data File : 15240108i-22.D
Date Inj'd : 1/8/2024 6:45 pm
Sample : il3tox,42e,,pp 11328 L0.02
Method : P15_pest_2024_01_08_ugL_
Operator : Pest15:akm
Instrument : Pest 15
Quant Date : 1/12/2024 11:51 am

Compound #37: toxaphene-5



Original Peak Response = 3264818



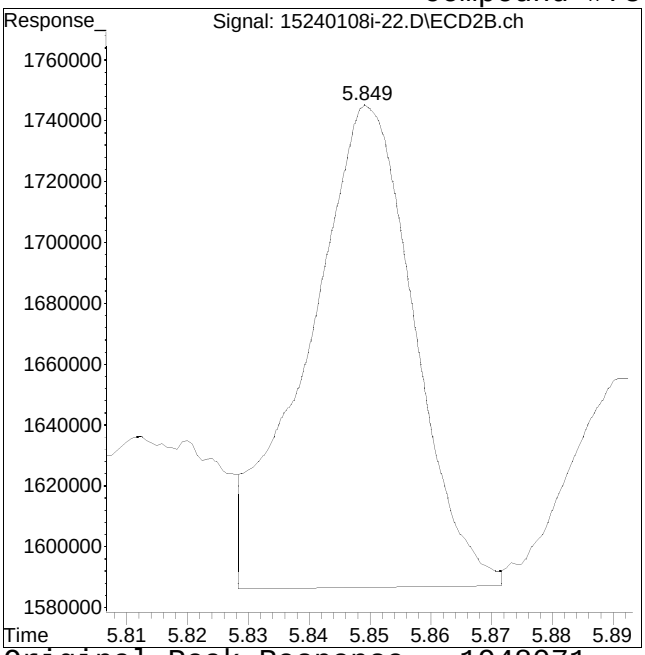
Manual Peak Response = 3151906 M4

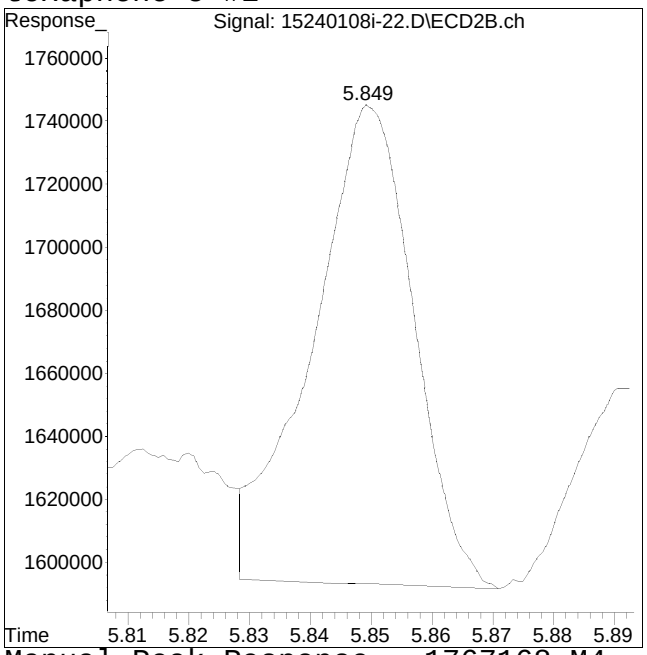
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240108QMethod : P15_pest_2024_01_08_ugL_
Data File : 15240108i-22.D Operator : Pest15:akm
Date Inj'd : 1/8/2024 6:45 pm Instrument : Pest 15
Sample : il3tox,42e,,pp 11328 L0.02Quant Date : 1/12/2024 11:51 am

Compound #75: toxaphene-5 #2





Original Peak Response = 1948071 Manual Peak Response = 1767168 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest15\2024\240108ical\
Data File : 15240108i-23.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 8 Jan 2024 6:57 pm
Operator : Pest15:akm
Sample : il8tox,42e,,pp 11327 L2.0
Misc : WG1874875, (Sig #1); ical (Sig #2)
ALS Vial : 23 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Jan 12 12:00:56 2024
Quant Method : I:\PEST\Pest15\2024\240108ical\P15_pest_2024_01_08_ugL_ICAL.m
Quant Title : pest
QLast Update : Fri Jan 12 11:54:51 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	1.250	1.331	107.4E6	68619536	25.000M4	25.000M4
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
	Target Compounds						
3)	Hexachlorobe	0.000	0.000	0	0	N.D.	N.D.
4)	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6)	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8)	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9)	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10)	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11)	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12)	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13)	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14)	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17)	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18)	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22)	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest15\2024\240108ical\
Data File : 15240108i-23.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 8 Jan 2024 6:57 pm
Operator : Pest15:akm
Sample : il8tox,42e,,pp 11327 L2.0
Misc : WG1874875, (Sig #1); ical (Sig #2)
ALS Vial : 23 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Jan 12 12:00:56 2024
Quant Method : I:\PEST\Pest15\2024\240108ical\P15_pest_2024_01_08_ugL_ICAL.m
Quant Title : pest
QLast Update : Fri Jan 12 11:54:51 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
23)	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
24)	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25)	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26)	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-1	4.436	5.091	386.7E6	113.0E6	2011.944	1993.500
35) l2	toxaphene-2	4.560	5.120	361.8E6	169.5E6	1870.167	2000.564
36) l2	toxaphene-4	4.980	5.439	318.0E6	202.1E6	2021.972	1993.536
37) l2	toxaphene-5	5.166	5.850	371.1E6	181.9E6	2046.612	1989.810
Sum	toxaphene-1			1437.6E6	666.5E6	7950.696	7977.410
Average	toxaphene-1					1987.674	1994.352

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			1437.6E6	666.5E6	7950.696	7977.410
Average	toxaphene-1					1987.674	1994.352

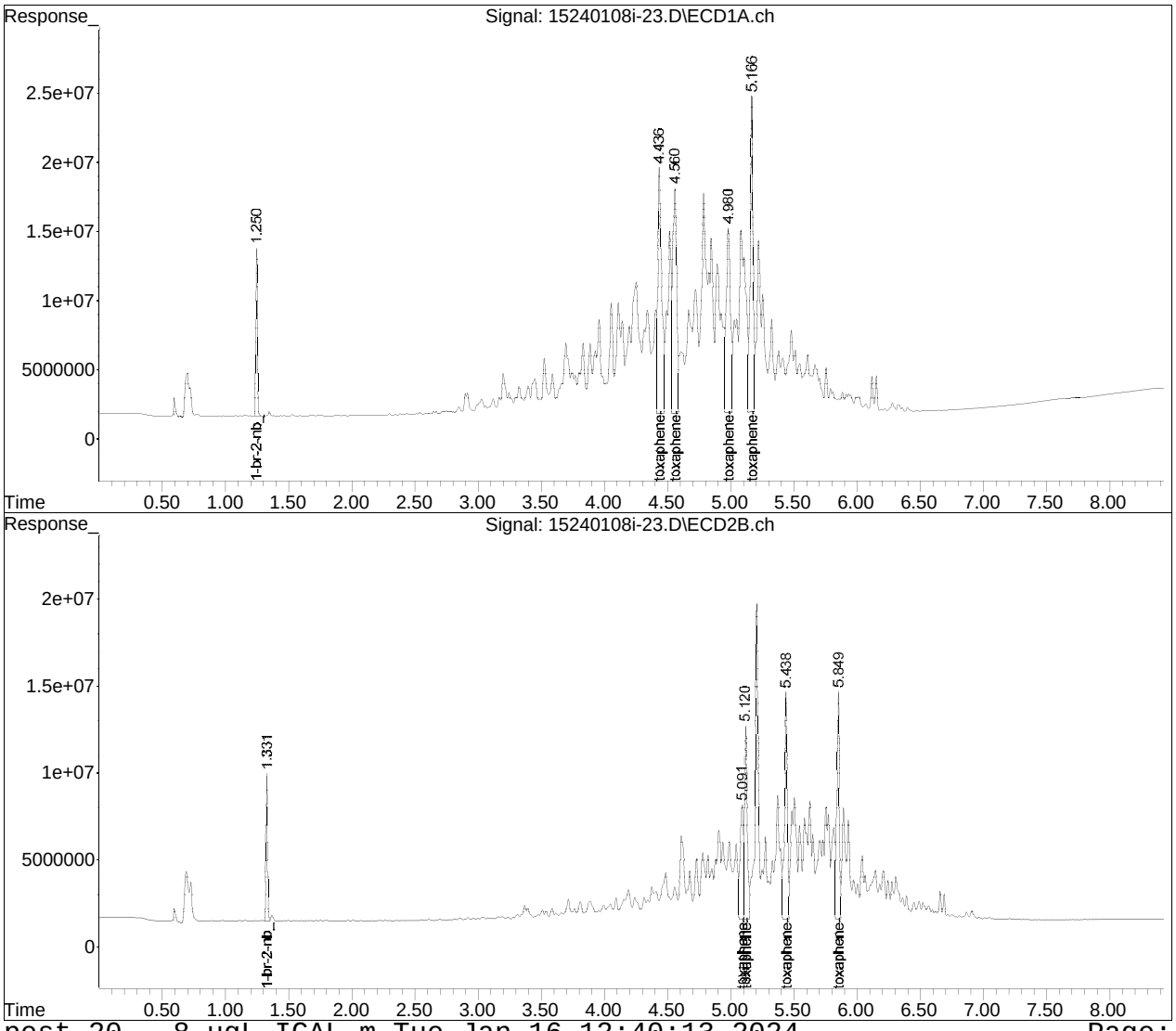
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest15\2024\240108ical\
Data File : 15240108i-23.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 8 Jan 2024 6:57 pm
Operator : Pest15:akm
Sample : il8tox,42e,,pp 11327 L2.0
Misc : WG1874875, (Sig #1); ical (Sig #2)
ALS Vial : 23 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Jan 12 12:00:56 2024
Quant Method : I:\PEST\Pest15\2024\240108ical\P15_pest_2024_01_08_ugL_ICAL.m
Quant Title : pest
QLast Update : Fri Jan 12 11:54:51 2024
Response via : Initial Calibration
Integrator: ChemStation

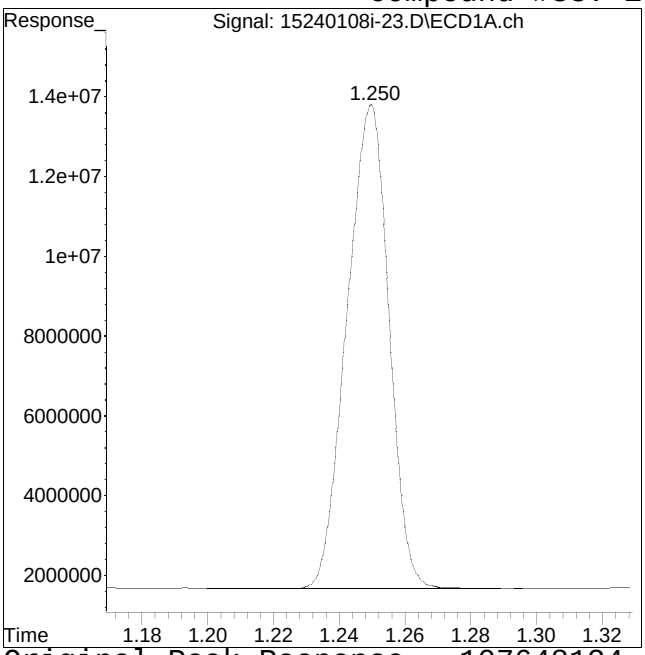
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



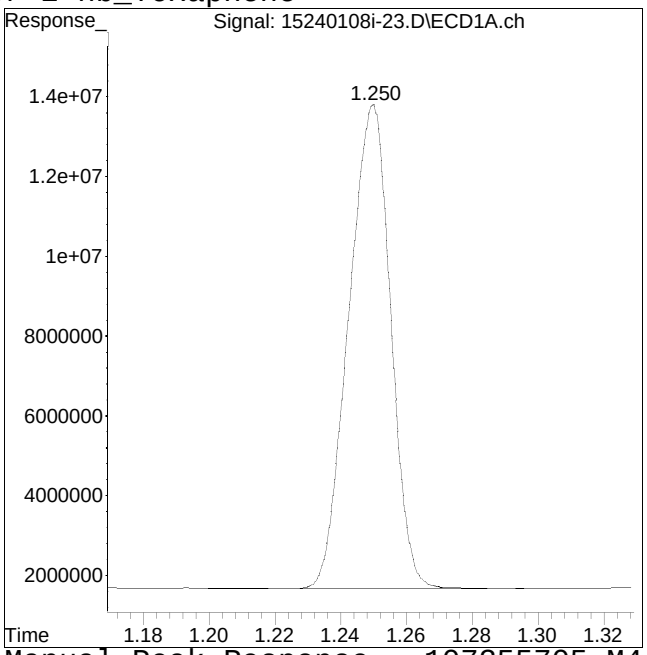
Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240108QMethod : P15_pest_2024_01_08_ugL_
Data File : 15240108i-23.D Operator : Pest15:akm
Date Inj'd : 1/8/2024 6:57 pm Instrument : Pest 15
Sample : il8tox,42e,,pp 11327 L2.0 Quant Date : 1/12/2024 12:01 pm

Compound #33: 1-br-2-nb_Toxaphene



Original Peak Response = 107648124



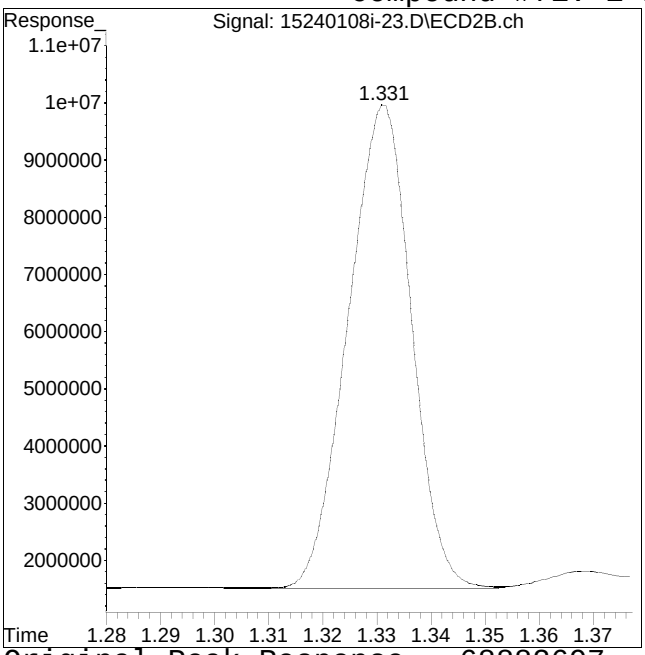
Manual Peak Response = 107355705 M4

M4 = Poor automated baseline construction.

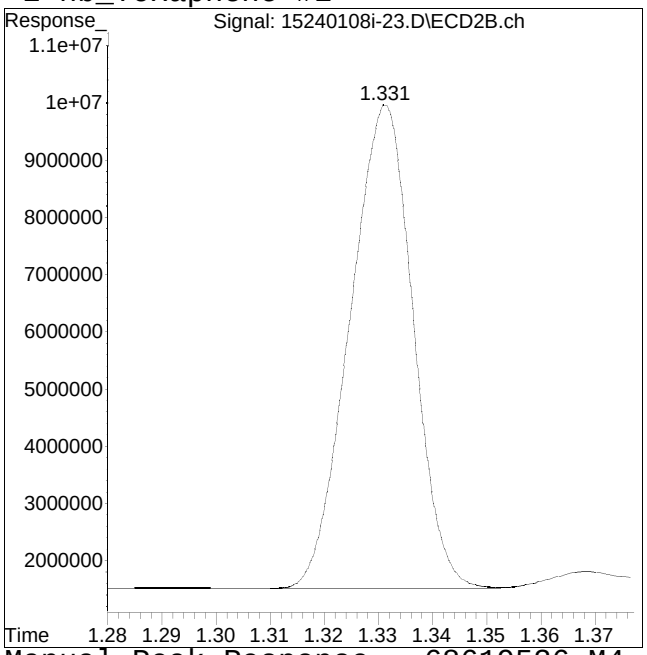
Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240108QMethod : P15_pest_2024_01_08_ugL_
Data File : 15240108i-23.D Operator : Pest15:akm
Date Inj'd : 1/8/2024 6:57 pm Instrument : Pest 15
Sample : il8tox,42e,,pp 11327 L2.0 Quant Date : 1/12/2024 12:01 pm

Compound #71: 1-br-2-nb_Toxaphene #2



Original Peak Response = 68882697



Manual Peak Response = 68619536 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest15\2024\240108ical\
Data File : 15240108i-24.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 8 Jan 2024 7:09 pm
Operator : Pest15:akm
Sample : il9tox,42e,,pp 11326 L5.0
Misc : WG1874875, (Sig #1); ical (Sig #2)
ALS Vial : 24 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Jan 15 13:12:25 2024
Quant Method : I:\PEST\Pest15\2024\240108ical\P15_pest_2024_01_08_ugL_ICAL.m
Quant Title : pest
QLast Update : Fri Jan 12 11:49:59 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	1.250	1.332	106.4E6	66690362	25.000M4	25.000
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
	Target Compounds						
3)	Hexachlorobe	0.000	0.000	0	0	N.D. d	N.D. d
4)	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6)	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8)	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9)	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10)	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11)	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12)	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13)	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14)	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17)	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18)	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22)	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d
23)	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest15\2024\240108ical\
Data File : 15240108i-24.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 8 Jan 2024 7:09 pm
Operator : Pest15:akm
Sample : il9tox,42e,,pp 11326 L5.0
Misc : WG1874875, (Sig #1); ical (Sig #2)
ALS Vial : 24 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Jan 15 13:12:25 2024
Quant Method : I:\PEST\Pest15\2024\240108ical\P15_pest_2024_01_08_ugL_ICAL.m
Quant Title : pest
QLast Update : Fri Jan 12 11:49:59 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
24)		Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25)		Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26)		Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29)	l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30)	l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31)	l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32)	l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum	chlordane-1			0	0	N.D.	N.D.
Average		chlordane-1					0.000	0.000
34)	l2	toxaphene-1	4.436	5.091	952.1E6	276.5E6	4968.625	5034.321
35)	l2	toxaphene-2	4.560	5.120	880.4E6	412.1E6	4910.664M3	5003.848
36)	l2	toxaphene-4	4.980	5.439	778.6E6	494.0E6	4941.513	5029.828
37)	l2	toxaphene-5	5.166	5.850	891.5E6	445.5E6	4848.719	5040.889
	Sum	toxaphene-1			3502.6E6	1628.2E6	19669.522	20108.885
Average		toxaphene-1					4917.380	5027.221

SemiQuant Compounds - Not Calibrated on this Instrument

	Sum	toxaphene-1			3502.6E6	1628.2E6	19669.522	20108.885
Average		toxaphene-1					4917.380	5027.221

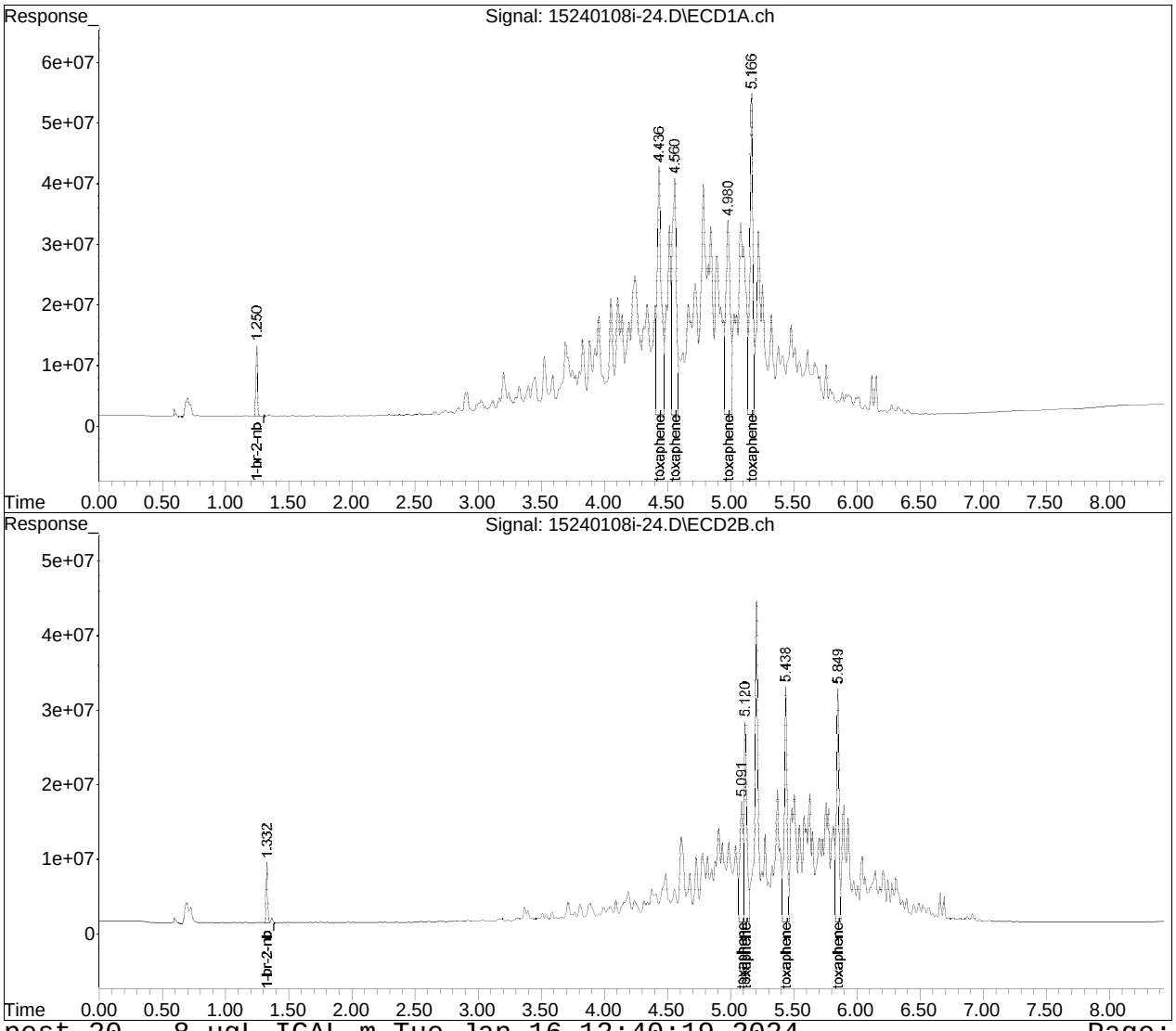
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest15\2024\240108ical\
Data File : 15240108i-24.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 8 Jan 2024 7:09 pm
Operator : Pest15:akm
Sample : il9tox,42e,,pp 11326 L5.0
Misc : WG1874875, (Sig #1); ical (Sig #2)
ALS Vial : 24 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Jan 15 13:12:25 2024
Quant Method : I:\PEST\Pest15\2024\240108ical\P15_pest_2024_01_08_ugL_ICAL.m
Quant Title : pest
QLast Update : Fri Jan 12 11:49:59 2024
Response via : Initial Calibration
Integrator: ChemStation

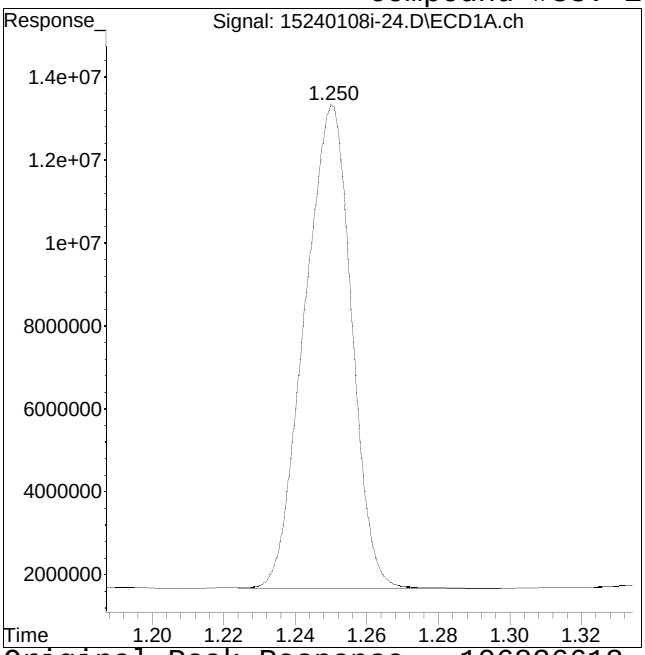
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

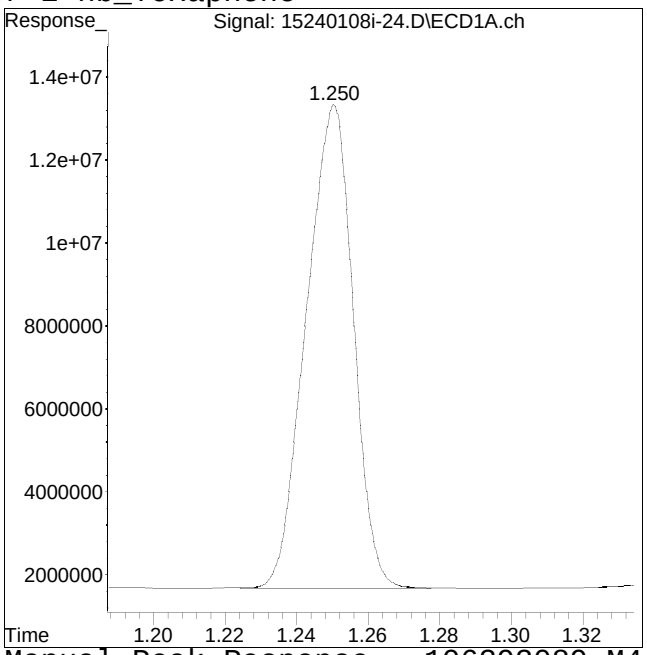


Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240108QMethod : P15_pest_2024_01_08_ugL_
Data File : 15240108i-24.D Operator : Pest15:akm
Date Inj'd : 1/8/2024 7:09 pm Instrument : Pest 15
Sample : il9tox,42e,,pp 11326 L5.0 Quant Date : 1/12/2024 11:50 am

Compound #33: 1-br-2-nb_Toxaphene



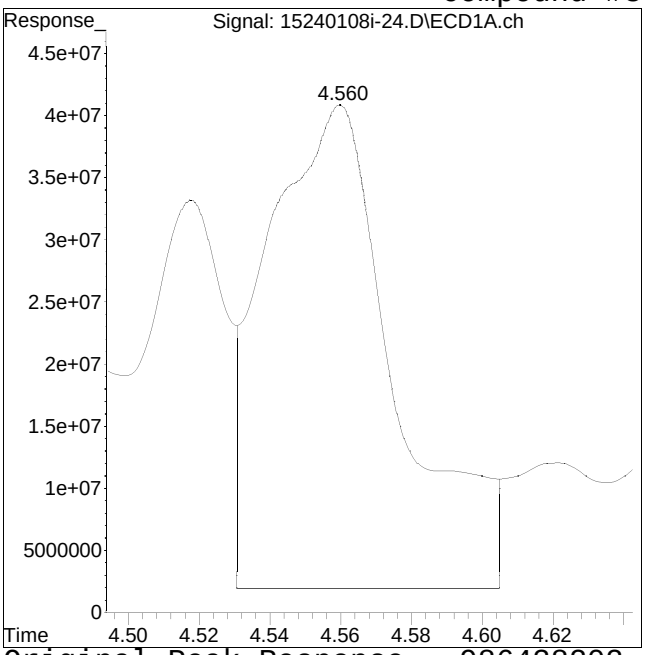


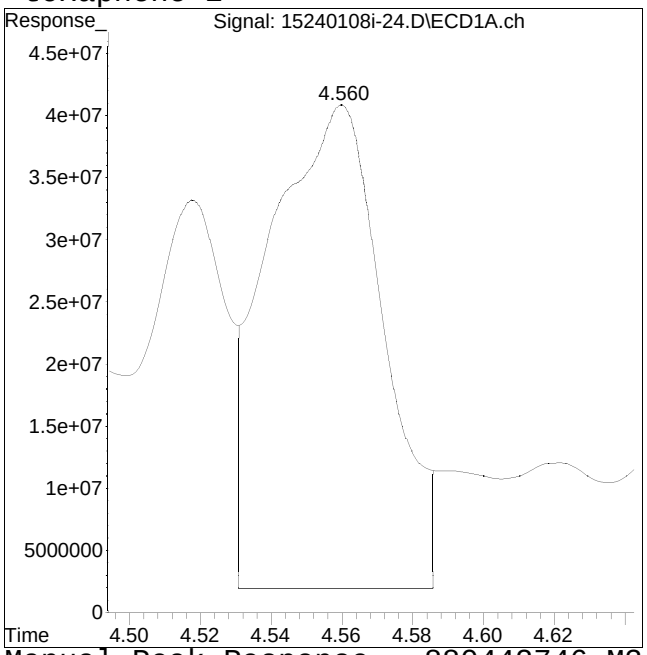
Original Peak Response = 106826613 Manual Peak Response = 106393089 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240108QMethod : P15_pest_2024_01_08_ugL_
Data File : 15240108i-24.D Operator : Pest15:akm
Date Inj'd : 1/8/2024 7:09 pm Instrument : Pest 15
Sample : il9tox,42e,,pp 11326 L5.0 Quant Date : 1/12/2024 11:50 am

Compound #35: toxaphene-2





Original Peak Response = 986438202 Manual Peak Response = 880442746 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Initial Calibration Verification

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest15\2024\240108ical\
Data File : 15240108i-25.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 8 Jan 2024   7:21 pm
Operator : Pest15:akm
Sample   : cicvtox,42e,,pp 11438 L2.0ICV
Misc   : WG1874875,
ALS Vial : 25   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Jan 16 12:25:51 2024
Quant Method : I:\PEST\Pest15\2024\240108ical\P15_pest_2024_01_08_ugL_ICAL.m
Quant Title : pest
QLast Update : Tue Jan 16 12:25:54 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
33	i	1-br-2-nb_Toxaphene	^	1.000	1.000	0.0	99	0.00
34	l2	toxaphene-1		*2000.000	1815.669	9.2	93	0.00
35	l2	toxaphene-2		*2000.000	1787.305	10.6	91	0.00
36	l2	toxaphene-4		*2000.000	1934.719	3.3	99	0.00
37	l2	toxaphene-5		*2000.000	1866.689	6.7	94	0.00

Signal #2

33	i	1-br-2-nb_Toxaphene	^	1.000	1.000	0.0	98	0.00
34	l2	toxaphene-1		*2000.000	1903.359	4.8	97	0.00
35	l2	toxaphene-2		*2000.000	1901.061	4.9	97	0.00
36	l2	toxaphene-4		*2000.000	1771.753	11.4	91	0.00
37	l2	toxaphene-5		*2000.000	1907.278	4.6	98	0.00

Evaluate Continuing Calibration Report - Not Founds

1	i	1-br-2-nb_Pesticides	^	1.000	1.000	0.0	0	-1.25#
2	s	2,4,5,6-Tetrachloro-m-xylen		1.059	0.000	100.0#	0#	-1.62#
3		Hexachlorobenzene		* 50.000	0.000	100.0#	0	-1.84#
4		alpha-BHC		1.372	0.000	100.0#	0#	-1.94#
5		gamma-BHC (lindane)		1.300	0.000	100.0#	0#	-2.15#
6		beta-BHC		* 50.000	0.000	100.0#	0	-2.21#
7		delta-BHC		1.290	0.000	100.0#	0#	-2.34#
8		Heptachlor		1.288	0.000	100.0#	0#	-2.50#
9		Aldrin		1.180	0.000	100.0#	0#	-2.75#
10		Alachlor		* 50.000	0.000	100.0#	0	-2.87#
11		Chlorpyrifos		* 50.000	0.000	100.0#	0	-2.96#
12		Heptachlor Epoxide		1.170	0.000	100.0#	0#	-3.29#
13		gamma-Chlordane (trans)		1.067	0.000	100.0#	0#	-3.42#

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest15\2024\240108ical\
Data File : 15240108i-25.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 8 Jan 2024   7:21 pm
Operator : Pest15:akm
Sample   : cicvtox,42e,,pp 11438 L2.0ICV
Misc   : WG1874875,
ALS Vial : 25   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Jan 16 12:25:51 2024
Quant Method : I:\PEST\Pest15\2024\240108ical\P15_pest_2024_01_08_ugL_ICAL.m
Quant Title : pest
QLast Update : Tue Jan 16 12:25:54 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
14		alpha-Chlordane (cis)		1.220	0.000	100.0#	0#	-3.55#
15		4,4'-DDE		1.136	0.000	100.0#	0#	-3.65#
16		Endosulfan I		1.101	0.000	100.0#	0#	-3.69#
17		Dieldrin		1.136	0.000	100.0#	0#	-3.95#
18		Endrin		1.167	0.000	100.0#	0#	-4.20#
19		4,4'-DDD		1.008	0.000	100.0#	0#	-4.32#
20		Endosulfan II		1.031	0.000	100.0#	0#	-4.45#
21		4,4'-DDT	*	50.000	0.000	100.0#	0	-4.61#
22		Endrin Aldehyde	*	50.000	0.000	100.0#	0	-4.87#
23		Methoxychlor		0.603	0.000	100.0#	0#	-5.10#
24		Mirex		0.959	0.000	100.0#	0#	-5.16#
25		Endosulfan Sulfate		0.991	0.000	100.0#	0#	-5.26#
26		Endrin Ketone		1.132	0.000	100.0#	0#	-5.49#
27	s	Decachlorobiphenyl		1.030	0.000	100.0#	0#	-6.30#
28	i	1-br-2-nb_Chlordane	^	1.000	1.000	0.0	0	-1.25#
29	l1	chlordane-1	*	1000.000	0.000	100.0#	0	-2.50#
30	l1	chlordane-3	*	1000.000	0.000	100.0#	0	-2.86#
31	l1	chlordane-4	*	1000.000	0.000	100.0#	0	-3.42#
32	l1	chlordane-5	*	1000.000	0.000	100.0#	0	-3.54#

Signal #2

1	i	1-br-2-nb_Pesticides	^	1.000	1.000	0.0	0	-1.33#
2	s	2,4,5,6-Tetrachloro-m-xyl		1.101	0.000	100.0#	0#	-1.84#
3		Hexachlorobenzene	*	50.000	0.000	100.0#	0	-2.16#
4		alpha-BHC		1.361	0.000	100.0#	0#	-2.26#
5		gamma-BHC (lindane)		1.297	0.000	100.0#	0#	-2.55#
6		beta-BHC	*	50.000	0.000	100.0#	0	-2.62#
7		delta-BHC	*	50.000	0.000	100.0#	0	-2.89#

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest15\2024\240108ical\
Data File : 15240108i-25.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 8 Jan 2024   7:21 pm
Operator : Pest15:akm
Sample   : cicvtox,42e,,pp 11438 L2.0ICV
Misc   : WG1874875,
ALS Vial : 25   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Jan 16 12:25:51 2024
Quant Method : I:\PEST\Pest15\2024\240108ical\P15_pest_2024_01_08_ugL_ICAL.m
Quant Title : pest
QLast Update : Tue Jan 16 12:25:54 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
8		Heptachlor		1.233	0.000	100.0#	0#	-2.95#
9		Aldrin		1.157	0.000	100.0#	0#	-3.27#
10		Alachlor	*	50.000	0.000	100.0#	0	-3.16#
11		Chlorpyrifos	*	50.000	0.000	100.0#	0	-3.51#
12		Heptachlor Epoxide	*	50.000	0.000	100.0#	0	-3.89#
13		gamma-Chlordane (trans)		1.034	0.000	100.0#	0#	-4.11#
14		alpha-Chlordane (cis)	*	50.000	0.000	100.0#	0	-4.28#
15		4,4'-DDE		1.115	0.000	100.0#	0#	-4.48#
16		Endosulfan I	*	50.000	0.000	100.0#	0	-4.34#
17		Dieldrin		1.067	0.000	100.0#	0#	-4.63#
18		Endrin	*	50.000	0.000	100.0#	0	-4.93#
19		4,4'-DDD	*	50.000	0.000	100.0#	0	-5.06#
20		Endosulfan II	*	50.000	0.000	100.0#	0	-5.13#
21		4,4'-DDT	*	50.000	0.000	100.0#	0	-5.34#
22		Endrin Aldehyde	*	50.000	0.000	100.0#	0	-5.43#
23		Methoxychlor	*	50.000	0.000	100.0#	0	-5.90#
24		Mirex	*	50.000	0.000	100.0#	0	-6.04#
25		Endosulfan Sulfate	*	50.000	0.000	100.0#	0	-5.66#
26		Endrin Ketone		1.028	0.000	100.0#	0#	-6.07#
27	s	Decachlorobiphenyl	*	50.000	0.000	100.0#	0	-6.94#
28	i	1-br-2-nb_Chlordane	^	1.000	1.000	0.0	0	-1.33#
29	l1	chlordane-1	*	1000.000	0.000	100.0#	0	-2.95#
30	l1	chlordane-3	*	1000.000	0.000	100.0#	0	-3.42#
31	l1	chlordane-4	*	1000.000	0.000	100.0#	0	-4.11#
32	l1	chlordane-5	*	1000.000	0.000	100.0#	0	-4.28#

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0
(^) = ISTD area calculated using ICAL average

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest15\2024\240108ical\
Data File : 15240108i-25.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 8 Jan 2024 7:21 pm
Operator : Pest15:akm
Sample : cicvtox,42e,,pp 11438 L2.0ICV
Misc : WG1874875,
ALS Vial : 25 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Jan 16 12:25:51 2024
Quant Method : I:\PEST\Pest15\2024\240108ical\P15_pest_2024_01_08_ugL_ICAL.m
Quant Title : pest
QLast Update : Tue Jan 16 12:25:54 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	1.250	1.332	110.5E6	69987020	25.000M4	25.000
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
	Target Compounds						
3)	Hexachlorobe	0.000	0.000	0	0	N.D. d	N.D. d
4)	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6)	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8)	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9)	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10)	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11)	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12)	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13)	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14)	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17)	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18)	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22)	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d
23)	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest15\2024\240108ical\
Data File : 15240108i-25.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 8 Jan 2024 7:21 pm
Operator : Pest15:akm
Sample : cicvtox,42e,,pp 11438 L2.0ICV
Misc : WG1874875,
ALS Vial : 25 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Jan 16 12:25:51 2024
Quant Method : I:\PEST\Pest15\2024\240108ical\P15_pest_2024_01_08_ugL_ICAL.m
Quant Title : pest
QLast Update : Tue Jan 16 12:25:54 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
24)		Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25)		Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26)		Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29)	l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30)	l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31)	l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32)	l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum	chlordane-1			0	0	N.D.	N.D.
Average		chlordane-1					0.000	0.000
34)	l2	toxaphene-1	4.436	5.091	359.2E6	110.1E6	1815.669	1903.359
35)	l2	toxaphene-2	4.561	5.120	328.1E6	164.2E6	1787.305	1901.061
36)	l2	toxaphene-4	4.980	5.439	313.4E6	183.1E6	1934.719	1771.753
37)	l2	toxaphene-5	5.166	5.850	348.5E6	177.8E6	1866.689	1907.278
	Sum	toxaphene-1			1349.2E6	635.2E6	7404.382	7483.451
Average		toxaphene-1					1851.095	1870.863

SemiQuant Compounds - Not Calibrated on this Instrument

	Sum	toxaphene-1			1349.2E6	635.2E6	7404.382	7483.451
Average		toxaphene-1					1851.095	1870.863

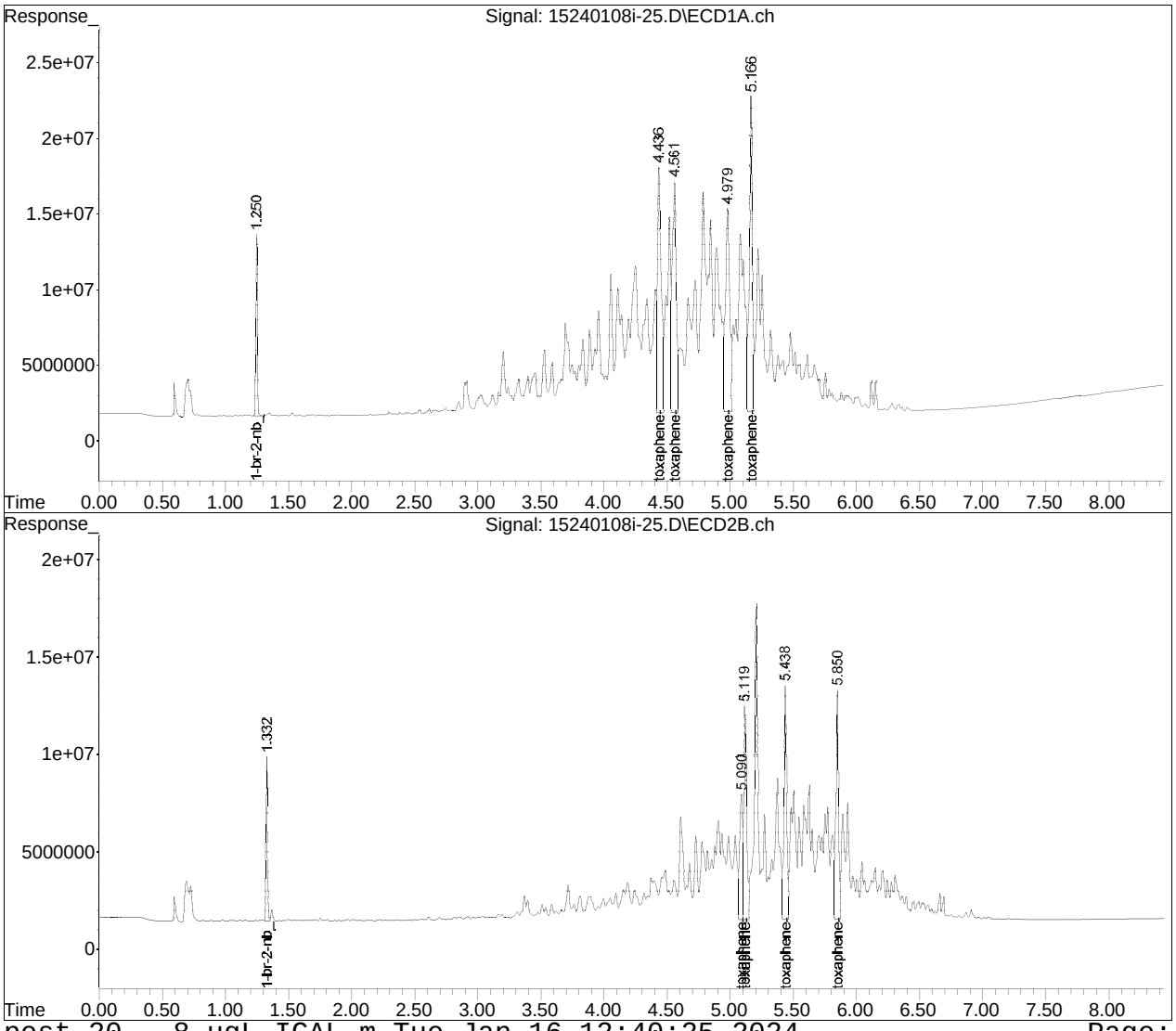
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest15\2024\240108ical\
Data File : 15240108i-25.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 8 Jan 2024 7:21 pm
Operator : Pest15:akm
Sample : cicvtox,42e,,pp 11438 L2.0ICV
Misc : WG1874875,
ALS Vial : 25 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Jan 16 12:25:51 2024
Quant Method : I:\PEST\Pest15\2024\240108ical\P15_pest_2024_01_08_ugL_ICAL.m
Quant Title : pest
QLast Update : Tue Jan 16 12:25:54 2024
Response via : Initial Calibration
Integrator: ChemStation

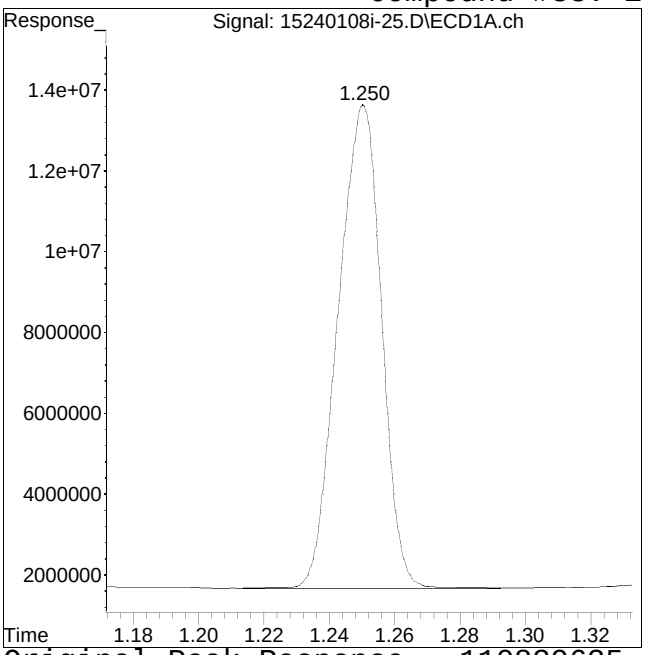
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

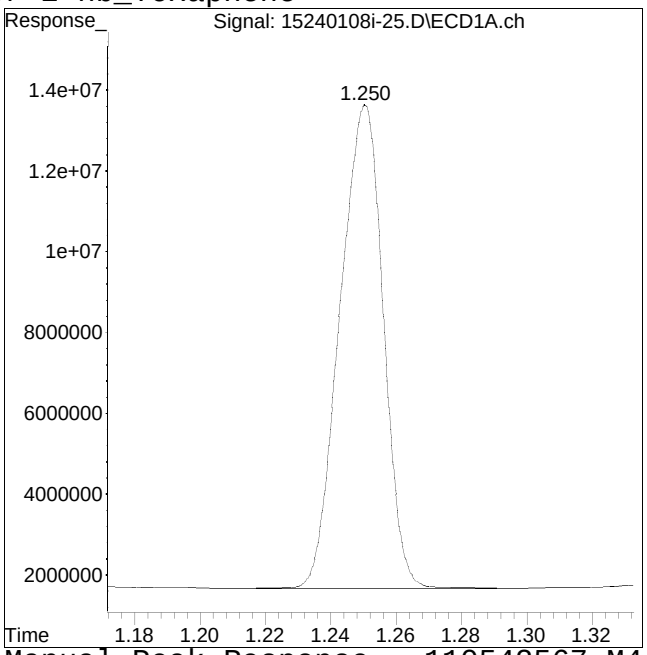


Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240108QMethod : P15_pest_2024_01_08_ugL_
Data File : 15240108i-25.D Operator : Pest15:akm
Date Inj'd : 1/8/2024 7:21 pm Instrument : Pest 15
Sample : cicvtox,42e,,pp 11438 L2.0Quant Date : 1/16/2024 12:25 pm

Compound #33: 1-br-2-nb_Toxaphene





Original Peak Response = 110839635 Manual Peak Response = 110542567 M4
M4 = Poor automated baseline construction.

Evaluate Relative Error Report Pest 15

Method Path : I:\PEST\Pest15\2024\240108ical\
Method File : P15_pest_2024_01_08_ugL_ICAL.m
Title : pest
Last Update : Tue Jan 16 12:07:23 2024

	COMPOUND	CalFit	Units	TrueMid	MidConc	%RE	TrueLow	LowConc	%RE
3	Hexachlorobenzene	L	ug/l	50.0	54.319	8.6	2.00	1.607	-19.7
6	beta-BHC	L	ug/l	50.0	53.089	6.2	2.00	1.673	-16.3
10	Alachlor	L	ug/l	50.0	58.941	17.9	3.00	2.170	-27.7
11	Chlorpyrifos	L	ug/l	50.0	58.159	16.3	3.00	2.277	-24.1
21	4,4'-DDT	L	ug/l	50.0	52.807	5.6	1.00	0.933	-6.7
22	Endrin Aldehyde	L	ug/l	50.0	53.910	7.8	1.00	0.785	-21.5
29	L1 chlordane-1	L	ug/l	1000.0	1068.920	6.9	10.00	8.811	-11.9
30	L1 chlordane-3	L	ug/l	1000.0	1068.878	6.9	10.00	7.859	-21.4
31	L1 chlordane-4	L	ug/l	1000.0	1068.651	6.9	10.00	9.017	-9.8
32	L1 chlordane-5	L	ug/l	1000.0	1070.436	7.0	10.00	9.009	-9.9
34	L2 toxaphene-1	L	ug/l	2000.0	2011.863	0.6	20.00	19.929	-0.4
35	L2 toxaphene-2	L	ug/l	2000.0	2028.834	1.4	20.00	19.826	-0.9
36	L2 toxaphene-4	L	ug/l	2000.0	2020.805	1.0	20.00	19.875	-0.6
37	L2 toxaphene-5	L	ug/l	2000.0	2046.045	2.3	20.00	19.723	-1.4
41	Hexachlorobenzene #2	L	ug/l	50.0	51.585	3.2	2.00	1.741	-12.9
44	beta-BHC #2	L	ug/l	50.0	50.741	1.5	2.00	1.715	-14.2
45	delta-BHC #2	L	ug/l	50.0	49.099	-1.8	1.00	1.048	4.8
48	Alachlor #2	L	ug/l	50.0	56.222	12.4	3.00	2.335	-22.2
49	Chlorpyrifos #2	L	ug/l	50.0	55.772	11.5	3.00	2.366	-21.1
50	Heptachlor Epoxide #2	L	ug/l	50.0	51.610	3.2	1.00	0.767	-23.3
52	alpha-Chlordane (cis) #2	L	ug/l	50.0	50.613	1.2	1.00	0.804	-19.6
54	Endosulfan I #2	L	ug/l	50.0	51.444	2.9	1.00	0.772	-22.8
56	Endrin #2	L	ug/l	50.0	51.815	3.6	1.00	0.815	-18.5
57	4,4'-DDD #2	L	ug/l	50.0	50.071	0.1	1.00	0.974	-2.6
58	Endosulfan II #2	L	ug/l	50.0	52.795	5.6	1.00	0.726	-27.4
59	4,4'-DDT #2	L	ug/l	50.0	50.911	1.8	1.00	1.033	3.3
60	Endrin Aldehyde #2	L	ug/l	50.0	50.994	2.0	1.00	0.777	-22.3
61	Methoxychlor #2	L	ug/l	50.0	53.749	7.5	2.00	1.448	-27.6
62	Mirex #2	L	ug/l	50.0	53.061	6.1	2.00	1.475	-26.2
63	Endosulfan Sulfate #2	L	ug/l	50.0	51.853	3.7	1.00	0.713	-28.7
65	S Decachlorobiphenyl #2	L	ug/l	50.0	53.456	6.9	2.00	1.513	-24.4
67	L1 chlordane-1 #2	L	ug/l	1000.0	1053.137	5.3	10.00	8.294	-17.1
68	L1 chlordane-3 #2	L	ug/l	1000.0	1066.908	6.7	10.00	6.443	-35.6
69	L1 chlordane-4 #2	L	ug/l	1000.0	1054.725	5.5	10.00	8.785	-12.1
70	L1 chlordane-5 #2	L	ug/l	1000.0	1052.143	5.2	10.00	8.440	-15.6
72	L2 toxaphene-1 #2	L	ug/l	2000.0	1993.500	-0.3	20.00	20.039	0.2
73	L2 toxaphene-2 #2	L	ug/l	2000.0	2000.564	0.0	20.00	19.997	-0.0
74	L2 toxaphene-4 #2	L	ug/l	2000.0	1993.536	-0.3	20.00	20.039	0.2
75	L2 toxaphene-5 #2	L	ug/l	2000.0	1989.810	-0.5	20.00	20.061	0.3

Calibration Correlation Report

	COMPOUND	CalFit	CoefOfDet	QuadTerm	LinTerm	Constant
3	Hexachlorobenzene	Linear	0.997874	0.000000	0.982873	0.0407689
6	beta-BHC	Linear	0.998629	0.000000	0.54427	0.0206671
10	Alachlor	Linear	0.991818	0.000000	0.154206	0.0144797
11	Chlorpyrifos	Linear	0.992786	0.000000	0.465471	0.0503466
21	4,4'-DDT	Linear	0.998396	0.000000	0.983055	0.04276
22	Endrin Aldehyde	Linear	0.997503	0.000000	0.774108	0.0154343
29	L1 chlordane-1	Linear	0.996512	0.000000	0.0608189	0.0102678
30	L1 chlordane-3	Linear	0.994857	0.000000	0.0396698	0.0102881
31	L1 chlordane-4	Linear	0.996569	0.000000	0.13803	0.0194537
32	L1 chlordane-5	Linear	0.996088	0.000000	0.211821	0.0364776
34	L2 toxaphene-1	Linear	0.999986	0.000000	0.0449091	-0.0119652
35	L2 toxaphene-2	Linear	0.999915	0.000000	0.0416737	-0.0115947
36	L2 toxaphene-4	Linear	0.999956	0.000000	0.0368093	-0.0136109
37	L2 toxaphene-5	Linear	0.999783	0.000000	0.0423212	-0.00726808
41	Hexachlorobenzene #2	Linear	0.999446	0.000000	0.9956	0.0414195

44	beta-BHC #2	Linear	0.999693	0.000000	0.529537	0.0242034	
45	delta-BHC #2	Linear	0.999895	0.000000	1.23937	0.00708238	
48	Alachlor #2	Linear	0.996401	0.000000	0.206796	0.0173597	
49	Chlorpyrifos #2	Linear	0.996449	0.000000	0.436776	0.0530154	
50	Heptachlor Epoxide #2	Linear	0.999160	0.000000	0.976507	0.0261138	
52	alpha-Chlordane (cis) #2	Linear	0.999677	0.000000	0.997471	0.0249573	
54	Endosulfan I #2	Linear	0.999253	0.000000	0.916592	0.0237687	
56	Endrin #2	Linear	0.999127	0.000000	0.945199	0.0237775	
57	4,4'-DDD #2	Linear	0.999828	0.000000	0.803947	0.0217679	
58	Endosulfan II #2	Linear	0.998156	0.000000	0.815998	0.0232485	
59	4,4'-DDT #2	Linear	0.999700	0.000000	0.858023	0.0504664	
60	Endrin Aldehyde #2	Linear	0.999478	0.000000	0.704816	0.0174398	
61	Methoxychlor #2	Linear	0.998179	0.000000	0.422328	0.0294154	
62	Mirex #2	Linear	0.998830	0.000000	0.651765	0.0456216	
63	Endosulfan Sulfate #2	Linear	0.999162	0.000000	0.761516	0.0238761	
65	S Decachlorobiphenyl #2	Linear	0.998711	0.000000	0.711616	0.0475385	
67	L1 chlordane-1 #2	Linear	0.998143	0.000000	0.0564741	0.0127247	
68	L1 chlordane-3 #2	Linear	0.995486	0.000000	0.0348273	0.0128982	
69	L1 chlordane-4 #2	Linear	0.998216	0.000000	0.116574	0.0264524	
70	L1 chlordane-5 #2	Linear	0.998266	0.000000	0.0935649	0.0219239	
72	L2 toxaphene-1 #2	Linear	0.999996	0.000000	0.0207376	-0.00628624	
73	L2 toxaphene-2 #2	Linear	1.000000	0.000000	0.0309245	-0.00479213	
74	L2 toxaphene-4 #2	Linear	0.999996	0.000000	0.0370236	-0.00698752	
75	L2 toxaphene-5 #2	Linear	0.999989	0.000000	0.0333565	-0.00445539	

Continuing Calibration

Calibration Verification Summary
Form 7
Pesticides

Client	: Alpha Geoscience		**Lab Number**	: L2410579	
Project Name	: HUNTINGTON READY MIX		**Project Number**	: 20116	
Instrument ID	: PEST20		**Calibration Date**	: 03/02/24 06:55	
Lab File ID	: 20240302a-03		**Init. Calib. Date(s)**	: 12/15/23	12/15/23
Sample No	: WG1891472-1		**Init. Calib. Times**	: 16:59	21:20
Channel	: A				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1-br-2-nb_Pesticides	1	1	-	0	20	115	0
2,4,5,6-Tetrachloro-m-xylen	1.132	1.07	-	5.5	20	124	0
Hexachlorobenzene	50	58.505	-	-17	20	131	0
alpha-BHC	1.4	1.423	-	-1.6	20	124	0
gamma-BHC (lindane)	1.298	1.282	-	1.2	20	125	0
beta-BHC	50	55.11	-	-10.2	20	123	0
delta-BHC	50	50.459	-	-0.9	20	120	0
Heptachlor	50	59.078	-	-18.2	20	135	0
Aldrin	1.259	1.261	-	-0.2	20	125	0
Alachlor	0.191	0.177	-	7.3	20	113	0
Chlorpyrifos	50	56.239	-	-12.5	20	121	0
Heptachlor Epoxide	50	55.31	-	-10.6	20	125	0
gamma-Chlordane (trans)	1.107	1.2	-	-8.4	20	141	0
alpha-Chlordane (cis)	50	54.009	-	-8	20	123	0
4,4'-DDE	1.202	1.153	-	4.1	20	118	0
Endosulfan I	50	52.899	-	-5.8	20	121	0
Dieldrin	1.151	1.229	-	-6.8	20	135	0
Endrin	1.119	1.133	-	-1.3	20	128	0
4,4'-DDD	0.901	0.961	-	-6.7	20	132	0
Endosulfan II	1.02	1.004	-	1.6	20	127	0
4,4'-DDT	0.888	0.943	-	-6.2	20	134	0
Endrin Aldehyde	50	48.932	-	2.1	20	110	0
Methoxychlor	50	62.111	-	-24.2*	20	130	0
Mirex	50	60.479	-	-21*	20	129	0
Endosulfan Sulfate	0.99	0.938	-	5.3	20	127	0
Endrin Ketone	1.046	1.109	-	-6	20	137	0
Decachlorobiphenyl	50	55.096	-	-10.2	20	118	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Pesticides

Client	: Alpha Geoscience	**Lab Number**	: L2410579		
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116		
Instrument ID	: PEST20	**Calibration Date**	: 03/02/24 06:55		
Lab File ID	: 20240302a-03	**Init. Calib. Date(s)**	: 12/15/23	12/15/23	
Sample No	: WG1891472-1	**Init. Calib. Times**	: 16:59	21:20	
Channel	: B				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1-br-2-nb_Pesticides	1	1	-	0	20	126	0
2,4,5,6-Tetrachloro-m-xyl	1.221	1.071	-	12.3	20	122	0
Hexachlorobenzene	50	51.134	-	-2.3	20	123	0
alpha-BHC	1.46	1.355	-	7.2	20	122	0
gamma-BHC (lindane)	1.359	1.237	-	9	20	124	0
beta-BHC	50	50	-	0	20	120	0
delta-BHC	1.352	1.201	-	11.2	20	118	0
Heptachlor	1.192	1.166	-	2.2	20	137	0
Aldrin	1.257	1.151	-	8.4	20	123	0
Alachlor	0.182	0.182	-	0	20	132	0
Chlorpyrifos	0.627	0.509	-	18.8	20	117	0
Heptachlor Epoxide	50	48.889	-	2.2	20	121	0
gamma-Chlordane (trans)	1.083	1.083	-	0	20	139	0
alpha-Chlordane (cis)	50	48.854	-	2.3	20	121	0
4,4'-DDE	1.188	1.023	-	13.9	20	114	0
Endosulfan I	1.136	0.974	-	14.3	20	118	0
Dieldrin	1.148	1.112	-	3.1	20	131	0
Endrin	1.141	1.05	-	8	20	124	0
4,4'-DDD	0.915	0.865	-	5.5	20	126	0
Endosulfan II	1.028	0.926	-	9.9	20	124	0
4,4'-DDT	0.924	0.895	-	3.1	20	132	0
Endrin Aldehyde	50	43.814	-	12.4	20	108	0
Methoxychlor	50	55.413	-	-10.8	20	127	0
Mirex	50	52.811	-	-5.6	20	124	0
Endosulfan Sulfate	0.987	0.88	-	10.8	20	127	0
Endrin Ketone	1.066	1.063	-	0.3	20	138	0
Decachlorobiphenyl	50	48.901	-	2.2	20	112	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Pesticides

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Instrument ID	: PEST20	**Calibration Date**	: 03/02/24 07:08
Lab File ID	: 20240302a-04	**Init. Calib. Date(s)**	: 12/15/23 12/15/23
Sample No	: WG1891472-2	**Init. Calib. Times**	: 16:59 21:20
Channel	: A		

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1-br-2-nb_Chlordane	1	1	-	0	20	119	0
chlordane-1	1000	1016.994	-	-1.7	20	117	0
chlordane-3	1000	1119.452	-	-11.9	20	124	0
chlordane-4	1000	1122.956	-	-12.3	20	131	0
chlordane-5	1000	1245.22	-	-24.5*	20	144	0

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Pesticides

Client	: Alpha Geoscience		**Lab Number**	: L2410579	
Project Name	: HUNTINGTON READY MIX		**Project Number**	: 20116	
Instrument ID	: PEST20		**Calibration Date**	: 03/02/24 07:08	
Lab File ID	: 20240302a-04		**Init. Calib. Date(s)**	: 12/15/23	12/15/23
Sample No	: WG1891472-2		**Init. Calib. Times**	: 16:59	21:20
Channel	: B				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1-br-2-nb_Chlordane	1	1	-	0	20	126	0
chlordane-1	1000	971.317	-	2.9	20	117	0
chlordane-3	1000	1061.393	-	-6.1	20	122	0
chlordane-4	1000	1003.238	-	-0.3	20	122	0
chlordane-5	1000	1001.038	-	-0.1	20	121	0

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Pesticides

Client	: Alpha Geoscience		**Lab Number**	: L2410579	
Project Name	: HUNTINGTON READY MIX		**Project Number**	: 20116	
Instrument ID	: PEST20		**Calibration Date**	: 03/02/24 07:20	
Lab File ID	: 20240302a-05		**Init. Calib. Date(s)**	: 12/15/23	12/15/23
Sample No	: WG1891472-3		**Init. Calib. Times**	: 16:59	21:20
Channel	: A				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1-br-2-nb_Toxaphene	1	1	-	0	20	134	0
toxaphene-1	2000	2362.094	-	-18.1	20	149	0
toxaphene-2	2000	2641.062	-	-32.1*	20	173	0
toxaphene-4	2000	2334.023	-	-16.7	20	153	0
toxaphene-5	2000	2500.695	-	-25*	20	162	0

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Pesticides

Client	: Alpha Geoscience		**Lab Number**	: L2410579	
Project Name	: HUNTINGTON READY MIX		**Project Number**	: 20116	
Instrument ID	: PEST20		**Calibration Date**	: 03/02/24 07:20	
Lab File ID	: 20240302a-05		**Init. Calib. Date(s)**	: 12/15/23	12/15/23
Sample No	: WG1891472-3		**Init. Calib. Times**	: 16:59	21:20
Channel	: B				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1-br-2-nb_Toxaphene	1	1	-	0	20	139	0
toxaphene-1	2000	2316.048	-	-15.8	20	156	0
toxaphene-2	2000	2268.657	-	-13.4	20	150	0
toxaphene-4	2000	1921.895	-	3.9	20	129	0
toxaphene-5	2000	2248.524	-	-12.4	20	154	0

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Pesticides

Client	: Alpha Geoscience		**Lab Number**	: L2410579	
Project Name	: HUNTINGTON READY MIX		**Project Number**	: 20116	
Instrument ID	: PEST15		**Calibration Date**	: 03/02/24 15:07	
Lab File ID	: 15240302a-03		**Init. Calib. Date(s)**	: 01/08/24	01/08/24
Sample No	: WG1891515-1		**Init. Calib. Times**	: 15:00	19:09
Channel	: A				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1-br-2-nb_Pesticides	1	1	-	0	20	106	0
2,4,5,6-Tetrachloro-m-xylen	1.059	1.115	-	-5.3	20	115	0
Hexachlorobenzene	50	56.284	-	-12.6	20	110	0
alpha-BHC	1.372	1.524	-	-11.1	20	114	0
gamma-BHC (lindane)	1.3	1.371	-	-5.5	20	111	0
beta-BHC	50	55.927	-	-11.9	20	112	0
delta-BHC	1.29	1.346	-	-4.3	20	109	0
Heptachlor	1.288	1.398	-	-8.5	20	117	0
Aldrin	1.18	1.304	-	-10.5	20	115	0
Alachlor	50	60.569	-	-21.1*	20	109	0
Chlorpyrifos	50	65.586	-	-31.2*	20	119	0
Heptachlor Epoxide	1.17	1.228	-	-5	20	115	0
gamma-Chlordane (trans)	1.067	1.279	-	-19.9	20	132	0
alpha-Chlordane (cis)	1.22	1.262	-	-3.4	20	115	0
4,4'-DDE	1.136	1.251	-	-10.1	20	114	0
Endosulfan I	1.101	1.17	-	-6.3	20	115	0
Dieldrin	1.136	1.345	-	-18.4	20	126	0
Endrin	1.167	1.296	-	-11.1	20	118	0
4,4'-DDD	1.008	1.116	-	-10.7	20	124	0
Endosulfan II	1.031	1.152	-	-11.7	20	120	0
4,4'-DDT	50	58.079	-	-16.2	20	117	0
Endrin Aldehyde	50	54.674	-	-9.3	20	108	0
Methoxychlor	0.603	0.677	-	-12.3	20	123	0
Mirex	0.959	1.004	-	-4.7	20	119	0
Endosulfan Sulfate	0.991	1.082	-	-9.2	20	120	0
Endrin Ketone	1.132	1.296	-	-14.5	20	123	0
Decachlorobiphenyl	1.03	1.036	-	-0.6	20	112	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Pesticides

Client	: Alpha Geoscience		**Lab Number**	: L2410579	
Project Name	: HUNTINGTON READY MIX		**Project Number**	: 20116	
Instrument ID	: PEST15		**Calibration Date**	: 03/02/24 15:07	
Lab File ID	: 15240302a-03		**Init. Calib. Date(s)**	: 01/08/24	01/08/24
Sample No	: WG1891515-1		**Init. Calib. Times**	: 15:00	19:09
Channel	: B				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1-br-2-nb_Pesticides	1	1	-	0	20	130	0
2,4,5,6-Tetrachloro-m-xyl	1.101	1.087	-	1.3	20	139	0
Hexachlorobenzene	50	53.297	-	-6.6	20	133	0
alpha-BHC	1.361	1.426	-	-4.8	20	138	0
gamma-BHC (lindane)	1.297	1.283	-	1.1	20	137	0
beta-BHC	50	53.892	-	-7.8	20	137	0
delta-BHC	50	50.561	-	-1.1	20	133	0
Heptachlor	1.233	1.247	-	-1.1	20	143	0
Aldrin	1.157	1.185	-	-2.4	20	142	0
Alachlor	50	51.097	-	-2.2	20	118	0
Chlorpyrifos	50	63.256	-	-26.5*	20	146	0
Heptachlor Epoxide	50	55.832	-	-11.7	20	140	0
gamma-Chlordane (trans)	1.034	1.144	-	-10.6	20	162	0
alpha-Chlordane (cis)	50	55.71	-	-11.4	20	142	0
4,4'-DDE	1.115	1.135	-	-1.8	20	140	0
Endosulfan I	50	55.94	-	-11.9	20	140	0
Dieldrin	1.067	1.172	-	-9.8	20	154	0
Endrin	50	58.234	-	-16.5	20	145	0
4,4'-DDD	50	59.024	-	-18	20	152	0
Endosulfan II	50	59.887	-	-19.8	20	146	0
4,4'-DDT	50	58.051	-	-16.1	20	147	0
Endrin Aldehyde	50	51.627	-	-3.3	20	131	0
Methoxychlor	50	63.257	-	-26.5*	20	151	0
Mirex	50	59.997	-	-20	20	145	0
Endosulfan Sulfate	50	58.954	-	-17.9	20	147	0
Endrin Ketone	1.028	1.093	-	-6.3	20	151	0
Decachlorobiphenyl	50	62.163	-	-24.3*	20	150	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Pesticides

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Instrument ID	: PEST15	**Calibration Date**	: 03/02/24 15:29
Lab File ID	: 15240302a-05	**Init. Calib. Date(s)**	: 01/08/24 01/08/24
Sample No	: WG1891515-3	**Init. Calib. Times**	: 15:00 19:09
Channel	: A		

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1-br-2-nb_Toxaphene	1	1	-	0	20	91	0
toxaphene-1	2000	2371.722	-	-18.6	20	112	0
toxaphene-2	2000	2348.132	-	-17.4	20	110	0
toxaphene-4	2000	2592.783	-	-29.6*	20	122	0
toxaphene-5	2000	2212.375	-	-10.6	20	102	0

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Pesticides

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Instrument ID	: PEST15	**Calibration Date**	: 03/02/24 15:29
Lab File ID	: 15240302a-05	**Init. Calib. Date(s)**	: 01/08/24 01/08/24
Sample No	: WG1891515-3	**Init. Calib. Times**	: 15:00 19:09
Channel	: B		

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1-br-2-nb_Toxaphene	1	1	-	0	20	117	0
toxaphene-1	2000	2448.029	-	-22.4*	20	149	0
toxaphene-2	2000	2475.553	-	-23.8*	20	150	0
toxaphene-4	2000	2250.189	-	-12.5	20	137	0
toxaphene-5	2000	2368.202	-	-18.4	20	145	0

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Pesticides

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Instrument ID	: PEST15	**Calibration Date**	: 03/02/24 15:40
Lab File ID	: 15240302a-06	**Init. Calib. Date(s)**	: 01/08/24 01/08/24
Sample No	: WG1891515-2	**Init. Calib. Times**	: 15:00 19:09
Channel	: A		

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1-br-2-nb_Chlordane	1	1	-	0	20	93	0
chlordane-1	1000	1103.669	-	-10.4	20	99	0
chlordane-3	1000	1222.223	-	-22.2*	20	110	0
chlordane-4	1000	1327.909	-	-32.8*	20	120	0
chlordane-5	1000	1464.415	-	-46.4*	20	132	0

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Pesticides

Client	: Alpha Geoscience		**Lab Number**	: L2410579	
Project Name	: HUNTINGTON READY MIX		**Project Number**	: 20116	
Instrument ID	: PEST15		**Calibration Date**	: 03/02/24 15:40	
Lab File ID	: 15240302a-06		**Init. Calib. Date(s)**	: 01/08/24	01/08/24
Sample No	: WG1891515-2		**Init. Calib. Times**	: 15:00	19:09
Channel	: B				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1-br-2-nb_Chlordane	1	1	-	0	20	118	0
chlordane-1	1000	893.012	-	10.7	20	103	0
chlordane-3	1000	1097.695	-	-9.8	20	125	0
chlordane-4	1000	1187.921	-	-18.8	20	136	0
chlordane-5	1000	1152.011	-	-15.2	20	133	0

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Pesticides

Client	: Alpha Geoscience	**Lab Number**	: L2410579		
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116		
Instrument ID	: PEST11	**Calibration Date**	: 03/05/24 07:24		
Lab File ID	: 11240305a-03	**Init. Calib. Date(s)**	: 12/19/23	12/19/23	
Sample No	: WG1892239-1	**Init. Calib. Times**	: 13:48	17:57	
Channel	: A				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1-br-2-nb_Pesticides	1	1	-	0	20	96	0
2,4,5,6-Tetrachloro-m-xylen	0.958	1.124	-	-17.3	20	114	0
Hexachlorobenzene	1.11	1.407	-	-26.8*	20	128	0
alpha-BHC	1.338	1.54	-	-15.1	20	103	0
gamma-BHC (lindane)	1.278	1.385	-	-8.4	20	99	0
beta-BHC	50	54.036	-	-8.1	20	103	0
delta-BHC	1.294	1.309	-	-1.2	20	92	0
Heptachlor	1.309	1.419	-	-8.4	20	103	0
Aldrin	1.187	1.268	-	-6.8	20	100	0
Alachlor	0.192	0.204	-	-6.2	20	110	0
Chlorpyrifos	50	58.912	-	-17.8	20	106	0
Heptachlor Epoxide	1.198	1.153	-	3.8	20	94	0
gamma-Chlordane (trans)	1.091	1.171	-	-7.3	20	107	0
alpha-Chlordane (cis)	1.241	1.146	-	7.7	20	92	0
4,4'-DDE	1.126	1.008	-	10.5	20	84	0
Endosulfan I	1.172	1.061	-	9.5	20	91	0
Dieldrin	1.168	1.132	-	3.1	20	94	0
Endrin	1.186	1.066	-	10.1	20	86	0
4,4'-DDD	0.934	0.795	-	14.9	20	81	0
Endosulfan II	1.095	0.944	-	13.8	20	84	0
4,4'-DDT	1.111	0.872	-	21.5*	20	76	0
Endrin Aldehyde	50	40.469	-	19.1	20	78	0
Methoxychlor	50	45.215	-	9.6	20	84	0
Mirex	50	52.182	-	-4.4	20	98	0
Endosulfan Sulfate	1.076	1.053	-	2.1	20	99	0
Endrin Ketone	1.215	1.396	-	-14.9	20	113	0
Decachlorobiphenyl	50	66.761	-	-33.5*	20	122	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Pesticides

Client	: Alpha Geoscience	**Lab Number**	: L2410579		
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116		
Instrument ID	: PEST11	**Calibration Date**	: 03/05/24 07:24		
Lab File ID	: 11240305a-03	**Init. Calib. Date(s)**	: 12/19/23	12/19/23	
Sample No	: WG1892239-1	**Init. Calib. Times**	: 13:48	17:57	
Channel	: B				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1-br-2-nb_Pesticides	1	1	-	0	20	104	0
2,4,5,6-Tetrachloro-m-xyl	0.995	1.122	-	-12.8	20	126	0
Hexachlorobenzene	50	57.056	-	-14.1	20	120	0
alpha-BHC	1.388	1.651	-	-18.9	20	124	0
gamma-BHC (lindane)	1.315	1.474	-	-12.1	20	122	0
beta-BHC	50	56.388	-	-12.8	20	119	0
delta-BHC	1.309	1.433	-	-9.5	20	117	0
Heptachlor	1.356	1.511	-	-11.4	20	125	0
Aldrin	1.227	1.403	-	-14.3	20	125	0
Alachlor	50	60.878	-	-21.8*	20	117	0
Chlorpyrifos	50	60.804	-	-21.6*	20	121	0
Heptachlor Epoxide	50	57.082	-	-14.2	20	123	0
gamma-Chlordane (trans)	1.105	1.361	-	-23.2*	20	143	0
alpha-Chlordane (cis)	50	57.636	-	-15.3	20	126	0
4,4'-DDE	1.127	1.255	-	-11.4	20	122	0
Endosulfan I	1.127	1.225	-	-8.7	20	124	0
Dieldrin	1.127	1.386	-	-23*	20	138	0
Endrin	1.13	1.304	-	-15.4	20	128	0
4,4'-DDD	0.897	1.035	-	-15.4	20	128	0
Endosulfan II	1.018	1.143	-	-12.3	20	129	0
4,4'-DDT	50	56.915	-	-13.8	20	126	0
Endrin Aldehyde	50	53.959	-	-7.9	20	119	0
Methoxychlor	50	60.947	-	-21.9*	20	128	0
Mirex	50	64.861	-	-29.7*	20	136	0
Endosulfan Sulfate	0.994	1.146	-	-15.3	20	136	0
Endrin Ketone	1.068	1.303	-	-22*	20	140	0
Decachlorobiphenyl	50	65.645	-	-31.3*	20	137	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Pesticides

Client	: Alpha Geoscience		**Lab Number**	: L2410579	
Project Name	: HUNTINGTON READY MIX		**Project Number**	: 20116	
Instrument ID	: PEST11		**Calibration Date**	: 03/05/24 07:36	
Lab File ID	: 11240305a-04		**Init. Calib. Date(s)**	: 12/19/23	12/19/23
Sample No	: WG1892239-2		**Init. Calib. Times**	: 13:48	17:57
Channel	: A				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1-br-2-nb_Chlordane	1	1	-	0	20	96	0
chlordane-1	1000	1040.537	-	-4.1	20	100	0
chlordane-3	1000	1110.791	-	-11.1	20	102	0
chlordane-4	1000	1052.074	-	-5.2	20	100	0
chlordane-5	1000	1178.334	-	-17.8	20	111	0

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Pesticides

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Instrument ID	: PEST11	**Calibration Date**	: 03/05/24 07:36
Lab File ID	: 11240305a-04	**Init. Calib. Date(s)**	: 12/19/23 12/19/23
Sample No	: WG1892239-2	**Init. Calib. Times**	: 13:48 17:57
Channel	: B		

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1-br-2-nb_Chlordane	1	1	-	0	20	105	0
chlordane-1	1000	1162.426	-	-16.2	20	121	0
chlordane-3	1000	1148.887	-	-14.9	20	114	0
chlordane-4	1000	1233.5	-	-23.4*	20	128	0
chlordane-5	1000	1192.166	-	-19.2	20	124	0

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Pesticides

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Instrument ID	: PEST11	**Calibration Date**	: 03/05/24 07:48
Lab File ID	: 11240305a-05	**Init. Calib. Date(s)**	: 12/19/23 12/19/23
Sample No	: WG1892239-3	**Init. Calib. Times**	: 13:48 17:57
Channel	: A		

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1-br-2-nb_Toxaphene	1	1	-	0	20	108	0
toxaphene-2	0.059	0.054	-	8.5	20	92	0
toxaphene-3	0.043	0.037	-	14	20	88	0
toxaphene-4	0.05	0.041	-	18	20	87	0
toxaphene-5	0.045	0.043	-	4.4	20	99	0

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Pesticides

Client	: Alpha Geoscience		**Lab Number**	: L2410579	
Project Name	: HUNTINGTON READY MIX		**Project Number**	: 20116	
Instrument ID	: PEST11		**Calibration Date**	: 03/05/24 07:48	
Lab File ID	: 11240305a-05		**Init. Calib. Date(s)**	: 12/19/23	12/19/23
Sample No	: WG1892239-3		**Init. Calib. Times**	: 13:48	17:57
Channel	: B				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1-br-2-nb_Toxaphene	1	1	-	0	20	117	0
toxaphene-2	0.022	0.025	-	-13.6	20	128	0
toxaphene-3	0.033	0.036	-	-9.1	20	125	0
toxaphene-4	0.038	0.036	-	5.3	20	107	0
toxaphene-5	0.036	0.04	-	-11.1	20	127	0

* Value outside of QC limits.

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest20\2024\240302a\
Data File : 20240302a-03.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 02 Mar 2024 06:55 am
Operator : pest20:peg
Sample   : wg1891472-1,42,,pest11430 (Sig #1); pest11430 (Sig #2)
Misc   : wg1891472,,ical20686
ALS Vial : 3   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Mar 02 08:04:46 2024
Quant Method : I:\PEST\Pest20\2024\240302a\pest20_2023_12_15_ugL_ICAL20686.m
Quant Title : pest
QLast Update : Sat Mar 02 08:05:00 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
1	i	1-br-2-nb_Pesticides	^	1.000	1.000	0.0	115	0.00
2	s	2,4,5,6-Tetrachloro-m-xylen		1.132	1.070	5.5	124	0.00
3		Hexachlorobenzene	*	50.000	58.505	-17.0	131	0.00
4		alpha-BHC		1.400	1.423	-1.6	124	0.00
5		gamma-BHC (lindane)		1.298	1.282	1.2	125	0.00
6		beta-BHC	*	50.000	55.110	-10.2	123	0.00
7		delta-BHC	*	50.000	50.459	-0.9	120	0.00
8		Heptachlor	*	50.000	59.078	-18.2	135	0.00
9		Aldrin		1.259	1.261	-0.2	125	0.00
10		Alachlor		0.191	0.177	7.3	113	0.00
11		Chlorpyrifos	*	50.000	56.239	-12.5	121	0.00
12		Heptachlor Epoxide	*	50.000	55.310	-10.6	125	0.00
13		gamma-Chlordane (trans)		1.107	1.200	-8.4	141	0.00
14		alpha-Chlordane (cis)	*	50.000	54.009	-8.0	123	0.00
15		4,4'-DDE		1.202	1.153	4.1	118	0.00
16		Endosulfan I	*	50.000	52.899	-5.8	121	0.00
17		Dieldrin		1.151	1.229	-6.8	135	0.00
18		Endrin		1.119	1.133	-1.3	128	0.00
19		4,4'-DDD		0.901	0.961	-6.7	132	0.00
20		Endosulfan II		1.020	1.004	1.6	127	0.00
21		4,4'-DDT		0.888	0.943	-6.2	134	0.00
22		Endrin Aldehyde	*	50.000	48.932	2.1	110	0.00
23		Methoxychlor	*	50.000	62.111	-24.2#	130	0.00
24		Mirex	*	50.000	60.479	-21.0#	129	0.00
25		Endosulfan Sulfate		0.990	0.938	5.3	127	0.00
26		Endrin Ketone		1.046	1.109	-6.0	137	0.00
27	s	Decachlorobiphenyl	*	50.000	55.096	-10.2	118	0.00

Signal #2

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest20\2024\240302a\
Data File : 20240302a-03.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 02 Mar 2024 06:55 am
Operator : pest20:peg
Sample   : wg1891472-1,42,,pest11430 (Sig #1); pest11430 (Sig #2)
Misc   : wg1891472,,ical20686
ALS Vial : 3   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Mar 02 08:04:46 2024
Quant Method : I:\PEST\Pest20\2024\240302a\pest20_2023_12_15_ugL_ICAL20686.m
Quant Title : pest
QLast Update : Sat Mar 02 08:05:00 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
1	i	1-br-2-nb_Pesticides	^	1.000	1.000	0.0	126	0.00
2	s	2,4,5,6-Tetrachloro-m-xyl		1.221	1.071	12.3	122	0.00
3		Hexachlorobenzene	*	50.000	51.134	-2.3	123	0.00
4		alpha-BHC		1.460	1.355	7.2	122	0.00
5		gamma-BHC (lindane)		1.359	1.237	9.0	124	0.00
6		beta-BHC	*	50.000	50.000	0.0	120	0.00
7		delta-BHC		1.352	1.201	11.2	118	0.00
8		Heptachlor		1.192	1.166	2.2	137	0.00
9		Aldrin		1.257	1.151	8.4	123	0.00
10		Alachlor		0.182	0.182	0.0	132	0.00
11		Chlorpyrifos		0.627	0.509	18.8	117	0.00
12		Heptachlor Epoxide	*	50.000	48.889	2.2	121	0.00
13		gamma-Chlordane (trans)		1.083	1.083	0.0	139	0.00
14		alpha-Chlordane (cis)	*	50.000	48.854	2.3	121	0.00
15		4,4'-DDE		1.188	1.023	13.9	114	0.00
16		Endosulfan I		1.136	0.974	14.3	118	0.00
17		Dieldrin		1.148	1.112	3.1	131	0.00
18		Endrin		1.141	1.050	8.0	124	0.00
19		4,4'-DDD		0.915	0.865	5.5	126	0.00
20		Endosulfan II		1.028	0.926	9.9	124	0.00
21		4,4'-DDT		0.924	0.895	3.1	132	0.00
22		Endrin Aldehyde	*	50.000	43.814	12.4	108	0.00
23		Methoxychlor	*	50.000	55.413	-10.8	127	0.00
24		Mirex	*	50.000	52.811	-5.6	124	0.00
25		Endosulfan Sulfate		0.987	0.880	10.8	127	0.00
26		Endrin Ketone		1.066	1.063	0.3	138	0.00
27	s	Decachlorobiphenyl	*	50.000	48.901	2.2	112	0.00

Evaluate Continuing Calibration Report - Not Founds

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest20\2024\240302a\
Data File : 20240302a-03.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 02 Mar 2024 06:55 am
Operator : pest20:peg
Sample   : wg1891472-1,42,,pest11430 (Sig #1); pest11430 (Sig #2)
Misc   : wg1891472,,ical20686
ALS Vial : 3   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Mar 02 08:04:46 2024
Quant Method : I:\PEST\Pest20\2024\240302a\pest20_2023_12_15_ugL_ICAL20686.m
Quant Title : pest
QLast Update : Sat Mar 02 08:05:00 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
28	i	1-br-2-nb_Chlordane	^	1.000	1.000	0.0	0	-1.76#
29	l1	chlordane-1		*1000.000	0.000	100.0#	0	-3.12#
30	l1	chlordane-3		*1000.000	0.000	100.0#	0	-3.57#
31	l1	chlordane-4		*1000.000	0.000	100.0#	0	-4.16#
32	l1	chlordane-5		*1000.000	0.000	100.0#	0	-4.28#
33	i	1-br-2-nb_Toxaphene	^	1.000	1.000	0.0	0	-1.76#
34	l2	toxaphene-1		*2000.000	0.000	100.0#	0	-5.20#
35	l2	toxaphene-2		*2000.000	0.000	100.0#	0	-5.74#
36	l2	toxaphene-4		*2000.000	0.000	100.0#	0	-5.84#
37	l2	toxaphene-5		*2000.000	0.000	100.0#	0	-5.93#

Signal #2

28	i	1-br-2-nb_Chlordane	^	1.000	1.000	0.0	0	-1.92#
29	l1	chlordane-1		*1000.000	0.000	100.0#	0	-3.59#
30	l1	chlordane-3		*1000.000	0.000	100.0#	0	-4.24#
31	l1	chlordane-4		*1000.000	0.000	100.0#	0	-4.95#
32	l1	chlordane-5		*1000.000	0.000	100.0#	0	-5.12#
33	i	1-br-2-nb_Toxaphene	^	1.000	1.000	0.0	0	-1.92#
34	l2	toxaphene-1		*2000.000	0.000	100.0#	0	-5.91#
35	l2	toxaphene-2		*2000.000	0.000	100.0#	0	-5.94#
36	l2	toxaphene-4		*2000.000	0.000	100.0#	0	-6.25#
37	l2	toxaphene-5		*2000.000	0.000	100.0#	0	-6.66#

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0
(^) = ISTD area calculated using ICAL average

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest20\2024\240302a\
Data File : 20240302a-03.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 02 Mar 2024 06:55 am
Operator : pest20:peg
Sample : wg1891472-1,42,,pest11430 (Sig #1); pest11430 (Sig #2)
Misc : wg1891472,,ical20686
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Mar 02 08:04:46 2024
Quant Method : I:\PEST\Pest20\2024\240302a\pest20_2023_12_15_ugL_ICAL20686.m
Quant Title : pest
QLast Update : Sat Mar 02 08:05:00 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	1.763	1.923	54033745	56427660	25.000	25.000M4
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	2.210	2.517	115.7E6	120.9E6	47.262M4	43.871M4
	Spiked Amount	50.000	Range 30 - 150		Recovery =	94.52%	87.74%
27) s	Decachlorobi	7.062	7.778	116.3E6	99260603	55.096	48.901
	Spiked Amount	50.000	Range 30 - 150		Recovery =	110.19%	97.80%
	Target Compounds						
3)	Hexachlorobe	2.461	2.885	136.0E6	127.0E6	58.505	51.134
4)	alpha-BHC	2.577	2.995	153.7E6	153.0E6	50.801	46.431
5)	gamma-BHC (l	2.806	3.310	138.6E6	139.6E6	49.401	45.498
6)	beta-BHC	2.873	3.386	64492178	66245054	55.110M4	50.000M4
7)	delta-BHC	3.011	3.673	135.8E6	135.5E6	50.459M4	44.418
8)	Heptachlor	3.185	3.738	135.0E6	131.5E6	59.078M4	48.896M4
9)	Aldrin	3.445	4.078	136.2E6	129.9E6	50.065M4	45.791
10)	Alachlor	3.586	3.961	19172651	20526730	46.330	50.046
11)	Chlorpyrifos	3.685	4.335	54308686	57466642	56.239	40.605
12)	Heptachlor E	4.025	4.727	123.0E6	120.2E6	55.310	48.889
13)	gamma-Chlord	4.155	4.952	129.7E6	122.2E6	54.231	49.971
14)	alpha-Chlord	4.296	5.116	128.9E6	120.3E6	54.009	48.854
15)	4,4'-DDE	4.403	5.307	124.6E6	115.5E6	47.988	43.063M4
16)	Endosulfan I	4.435	5.174	114.1E6	109.9E6	52.899M4	42.836M4
17)	Dieldrin	4.706	5.460	132.8E6	125.4E6	53.399	48.406
18)	Endrin	4.964	5.754	122.5E6	118.5E6	50.638	46.011
19)	4,4'-DDD	5.080	5.872	103.9E6	97640436	53.332M4	47.264M4

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest20\2024\240302a\
Data File : 20240302a-03.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 02 Mar 2024 06:55 am
Operator : pest20:peg
Sample : wg1891472-1,42,,pest11430 (Sig #1); pest11430 (Sig #2)
Misc : wg1891472,,ical20686
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Mar 02 08:04:46 2024
Quant Method : I:\PEST\Pest20\2024\240302a\pest20_2023_12_15_ugL_ICAL20686.m
Quant Title : pest
QLast Update : Sat Mar 02 08:05:00 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
20)	Endosulfan I	5.206	5.950	108.5E6	104.5E6	49.224M4	45.018M4
21)	4,4'-DDT	5.373	6.147	101.9E6	101.0E6	53.070M4	48.423M4
22)	Endrin Aldeh	5.626	6.244	80757852	78089721	48.932	43.814M4
23)	Methoxychlor	5.864	6.708	55954996	55055459	62.111	55.413
24)	Mirex	5.916	6.852	97342658	88735590	60.479	52.811
25)	Endosulfan S	6.020	6.472	101.4E6	99271569	47.349M4	44.570
26)	Endrin Keton	6.249	6.886	119.8E6	120.0E6	53.012	49.870M4
29) l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest20\2024\240302a\
Data File : 20240302a-03.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 02 Mar 2024 06:55 am
Operator : pest20:peg
Sample : wg1891472-1,42,,pest11430 (Sig #1); pest11430 (Sig #2)
Misc : wg1891472,,ical20686
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Mar 02 08:04:46 2024
Quant Method : I:\PEST\Pest20\2024\240302a\pest20_2023_12_15_ugL_ICAL20686.m
Quant Title : pest
QLast Update : Sat Mar 02 08:05:00 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l

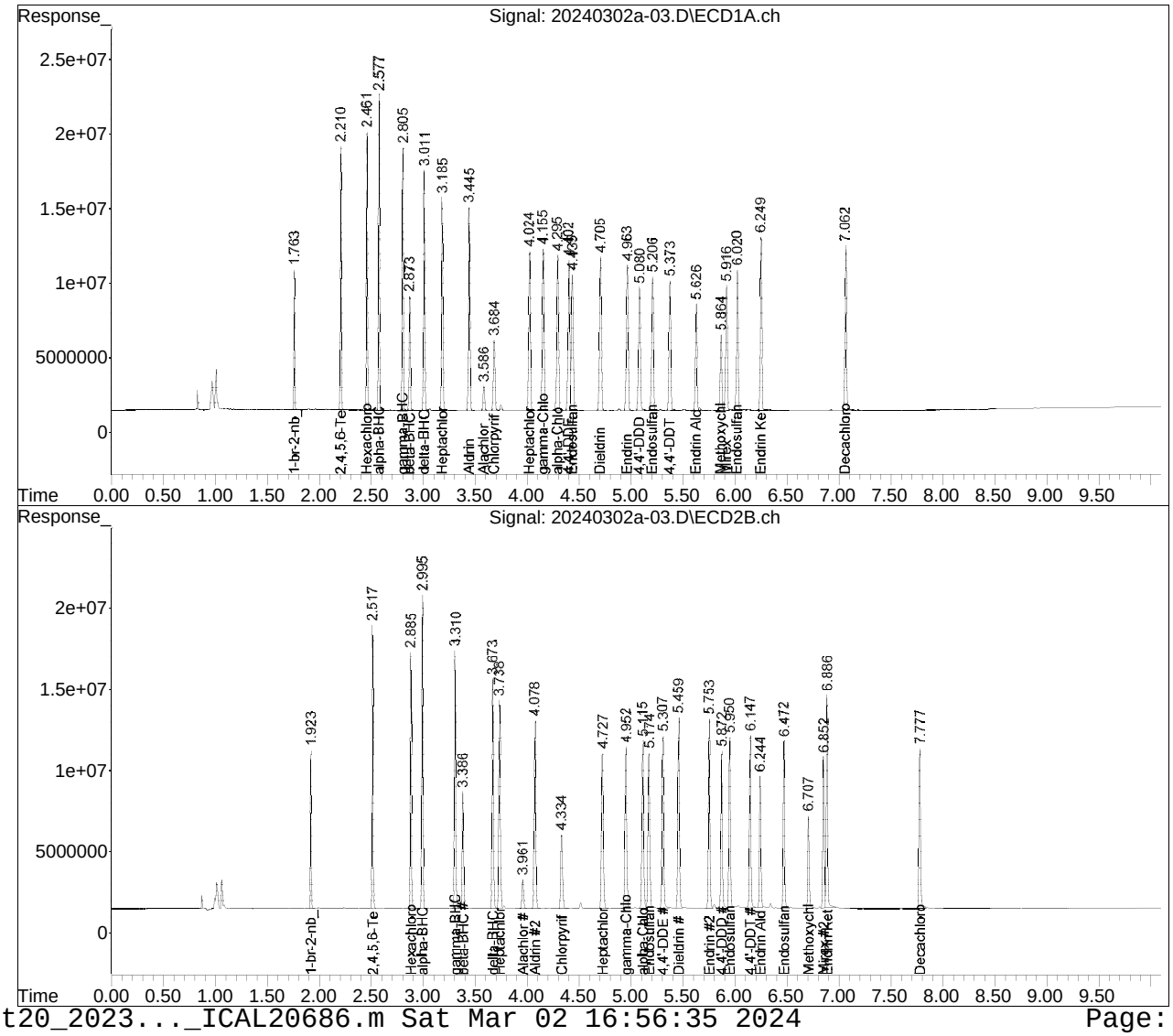
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest20\2024\240302a\
Data File : 20240302a-03.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 02 Mar 2024 06:55 am
Operator : pest20:peg
Sample : wg1891472-1,42,,pest11430 (Sig #1); pest11430 (Sig #2)
Misc : wg1891472,,ical20686
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Mar 02 08:04:46 2024
Quant Method : I:\PEST\Pest20\2024\240302a\pest20_2023_12_15_ugL_ICAL20686.m
Quant Title : pest
QLast Update : Sat Mar 02 08:05:00 2024
Response via : Initial Calibration
Integrator: ChemStation

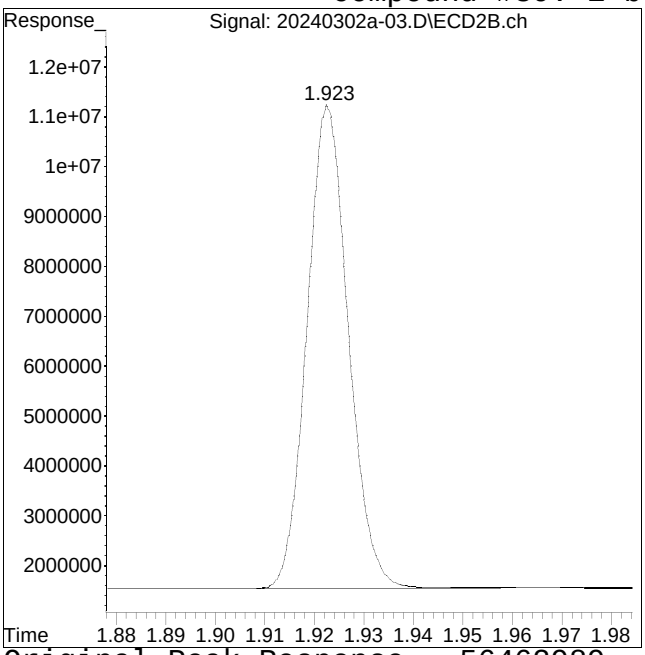
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

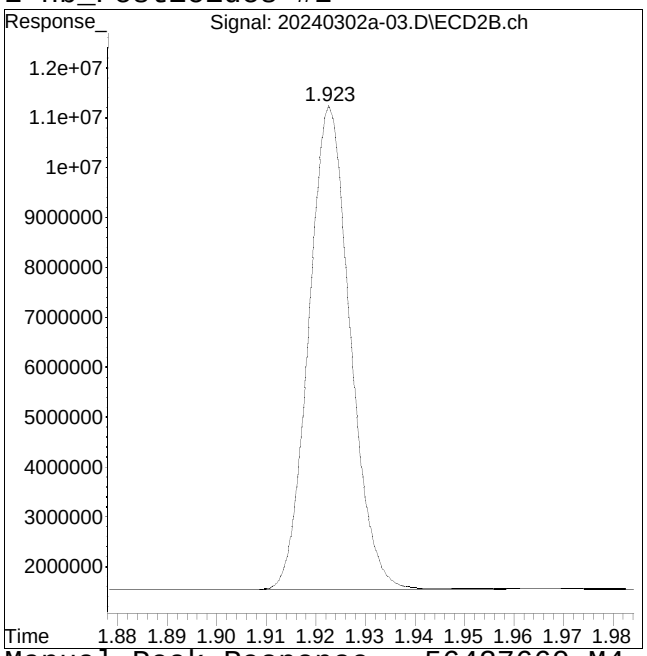


Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240302QMethod : pest20_2023_12_15_ugL_IC
Data File : 20240302a-03.D Operator : pest20:peg
Date Inj'd : 3/2/2024 6:55 am Instrument : PEST 20
Sample : wg1891472-1,42,,pest11430 Quant Date : 3/2/2024 8:05 am

Compound #39: 1-br-2-nb_Pesticides #2



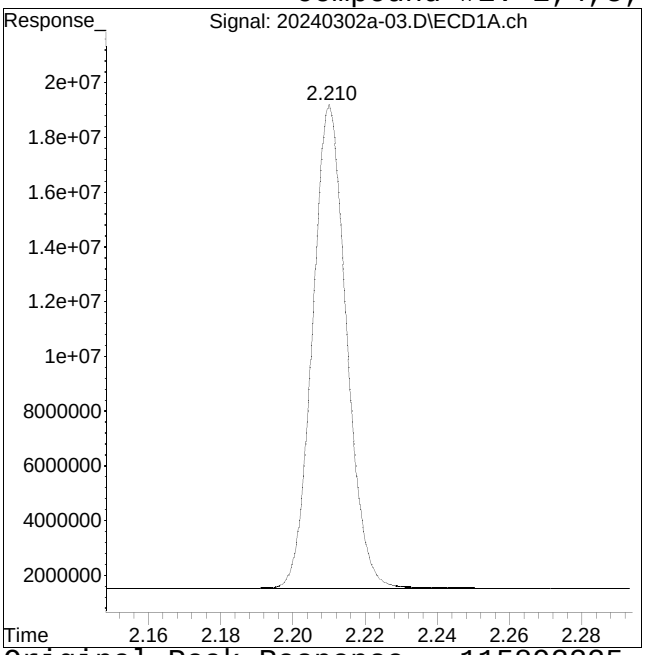


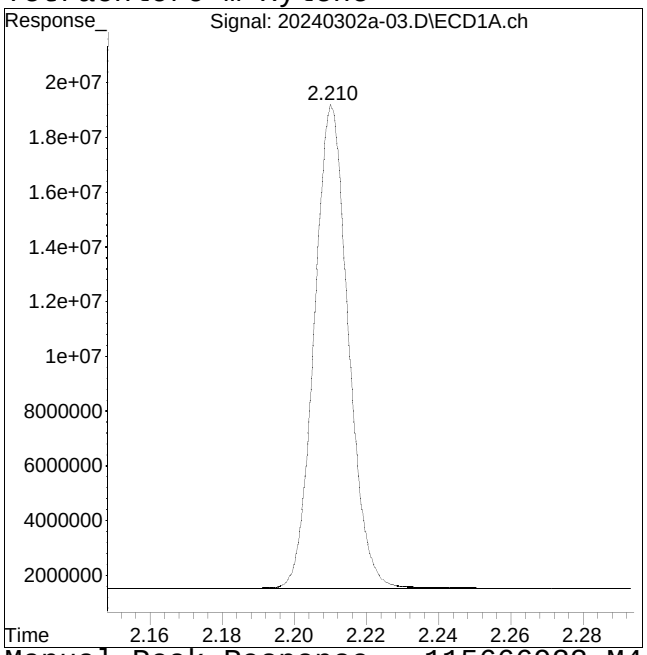
Original Peak Response = 56462989 Manual Peak Response = 56427660 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240302QMethod : pest20_2023_12_15_ugL_IC
Data File : 20240302a-03.D Operator : pest20:peg
Date Inj'd : 3/2/2024 6:55 am Instrument : PEST 20
Sample : wg1891472-1,42,,pest11430 Quant Date : 3/2/2024 8:05 am

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



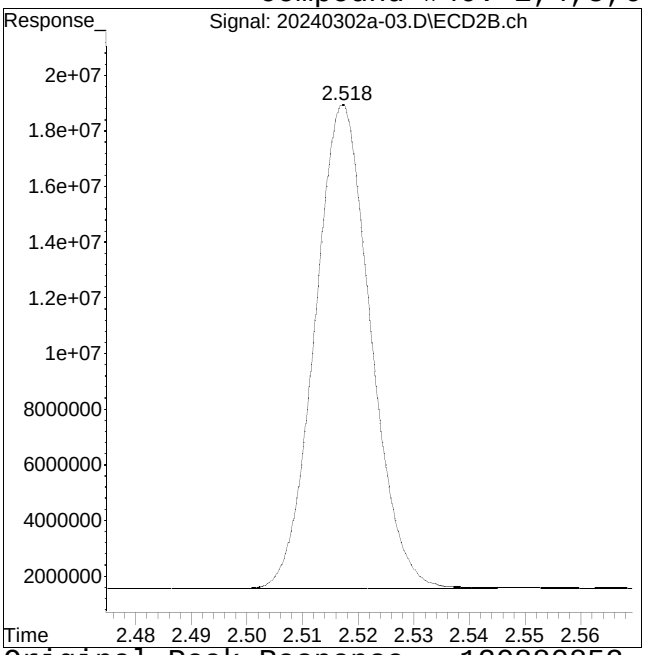


Original Peak Response = 115892325 Manual Peak Response = 115666922 M4
M4 = Poor automated baseline construction.

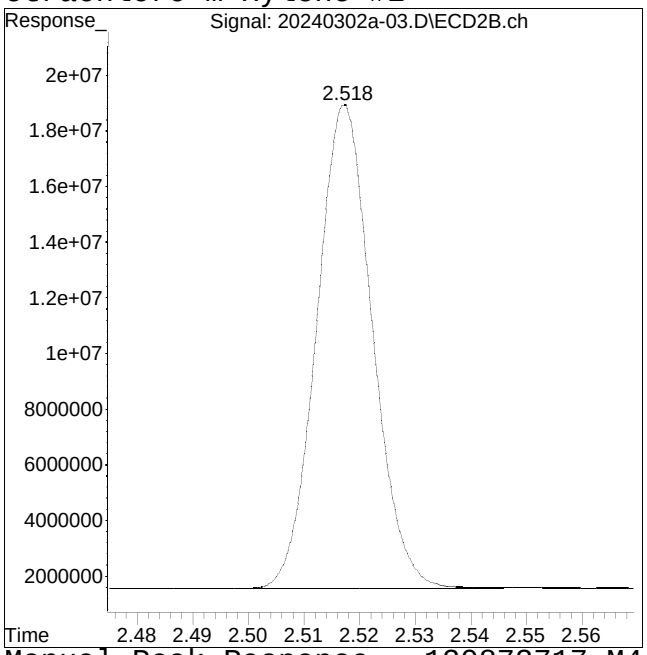
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240302QMethod : pest20_2023_12_15_ugL_IC
Data File : 20240302a-03.D Operator : pest20:peg
Date Inj'd : 3/2/2024 6:55 am Instrument : PEST 20
Sample : wg1891472-1,42,,pest11430 Quant Date : 3/2/2024 8:05 am

Compound #40: 2,4,5,6-Tetrachloro-m-xylene #2



Original Peak Response = 120880852



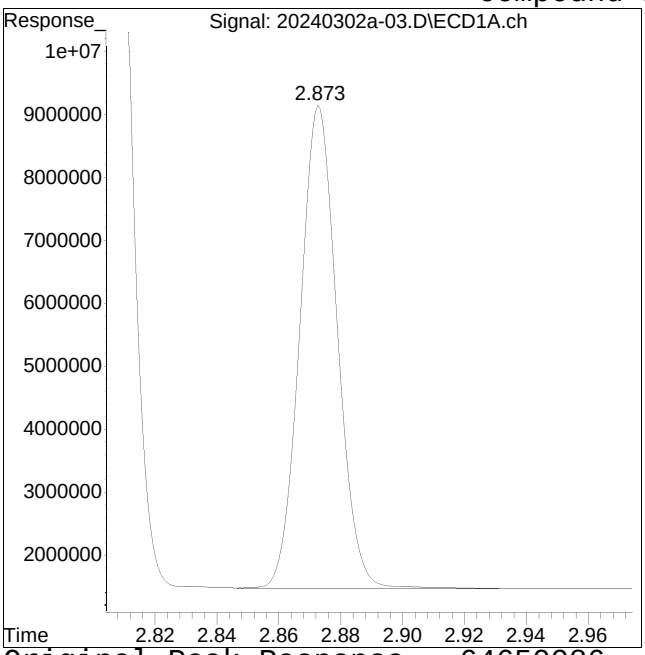
Manual Peak Response = 120873717 M4

M4 = Poor automated baseline construction.

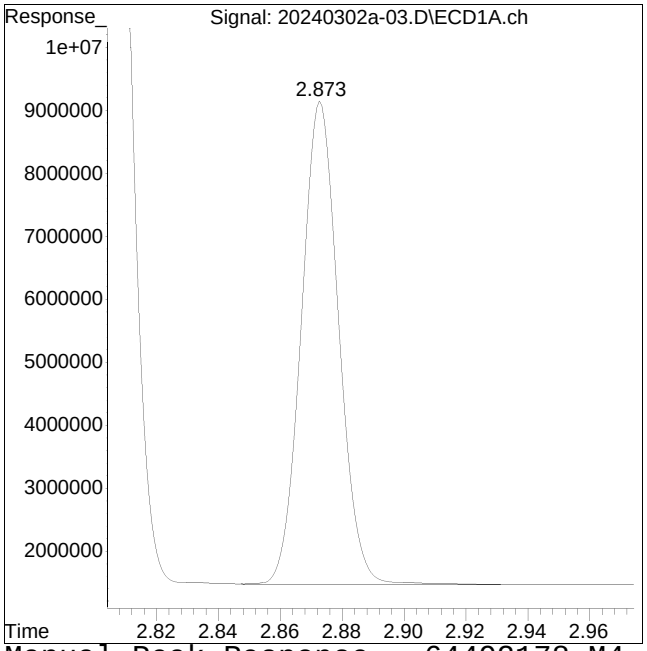
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240302QMethod : pest20_2023_12_15_ugL_IC
Data File : 20240302a-03.D Operator : pest20:peg
Date Inj'd : 3/2/2024 6:55 am Instrument : PEST 20
Sample : wg1891472-1,42,,pest11430 Quant Date : 3/2/2024 8:05 am

Compound #6: beta-BHC



Original Peak Response = 64650086



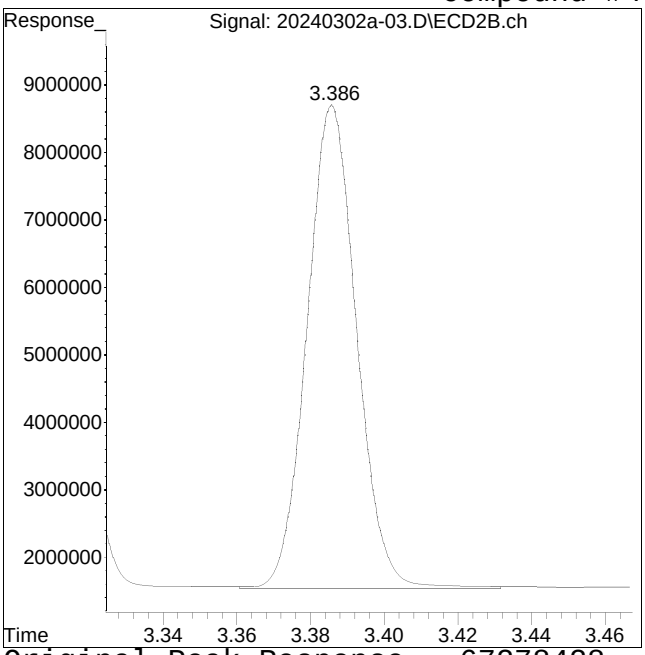
Manual Peak Response = 64492178 M4

M4 = Poor automated baseline construction.

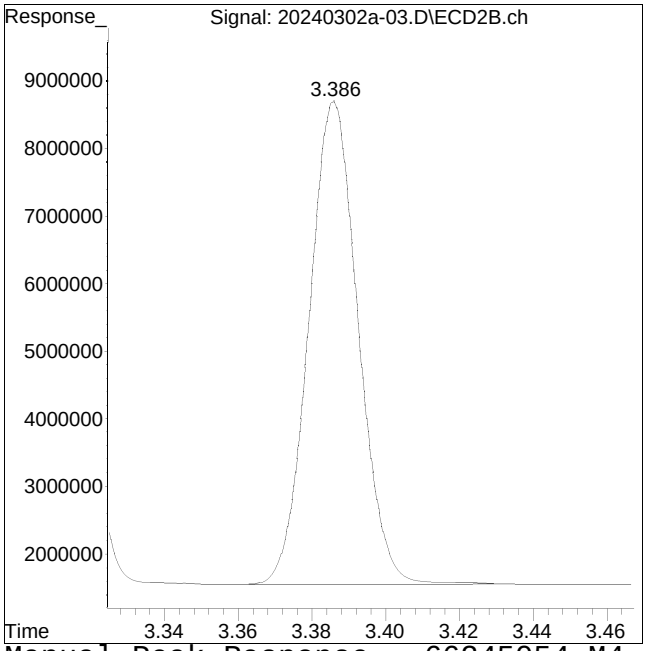
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240302QMethod : pest20_2023_12_15_ugL_IC
Data File : 20240302a-03.D Operator : pest20:peg
Date Inj'd : 3/2/2024 6:55 am Instrument : PEST 20
Sample : wg1891472-1,42,,pest11430 Quant Date : 3/2/2024 8:05 am

Compound #44: beta-BHC #2



Original Peak Response = 67278428



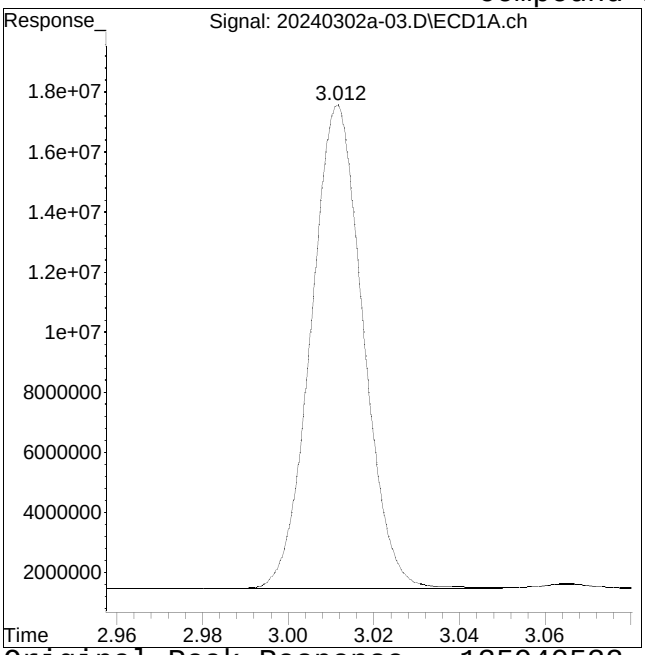
Manual Peak Response = 66245054 M4

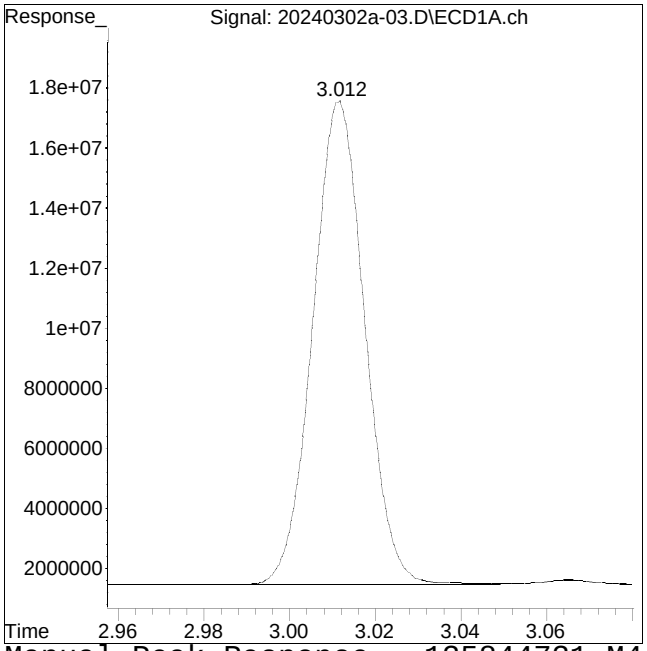
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240302QMethod : pest20_2023_12_15_ugL_IC
Data File : 20240302a-03.D Operator : pest20:peg
Date Inj'd : 3/2/2024 6:55 am Instrument : PEST 20
Sample : wg1891472-1,42,,pest11430 Quant Date : 3/2/2024 8:05 am

Compound #7: delta-BHC



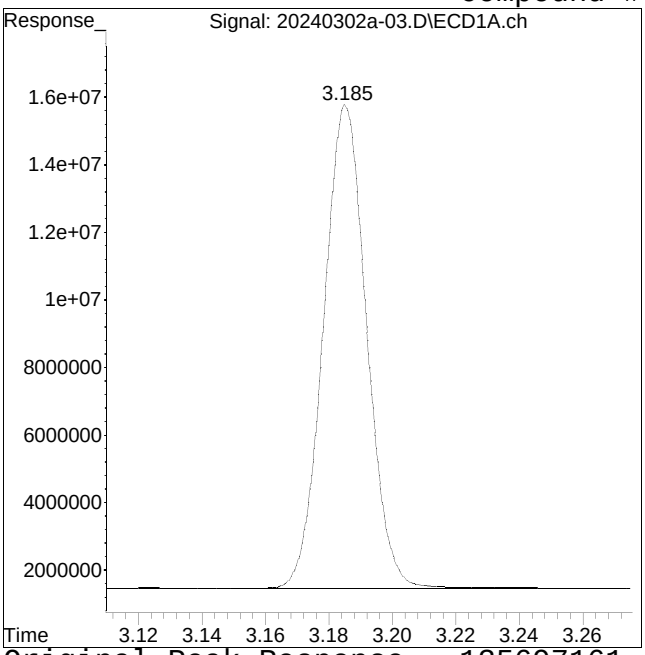


Original Peak Response = 135940532 Manual Peak Response = 135844731 M4
M4 = Poor automated baseline construction.

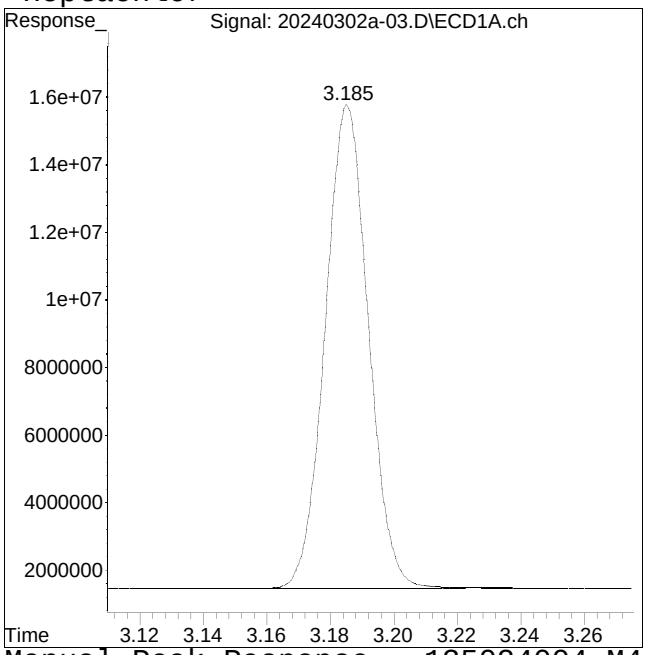
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240302QMethod : pest20_2023_12_15_ugL_IC
Data File : 20240302a-03.D Operator : pest20:peg
Date Inj'd : 3/2/2024 6:55 am Instrument : PEST 20
Sample : wg1891472-1,42,,pest11430 Quant Date : 3/2/2024 8:05 am

Compound #8: Heptachlor



Original Peak Response = 135697161



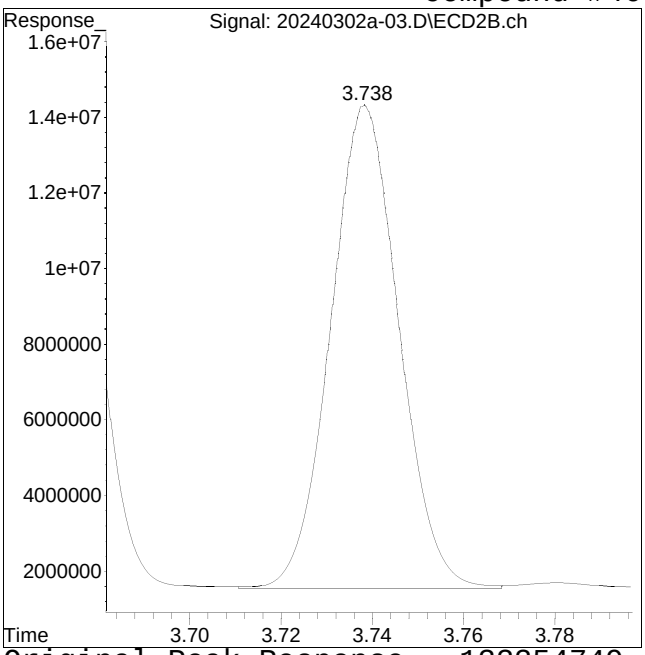
Manual Peak Response = 135024004 M4

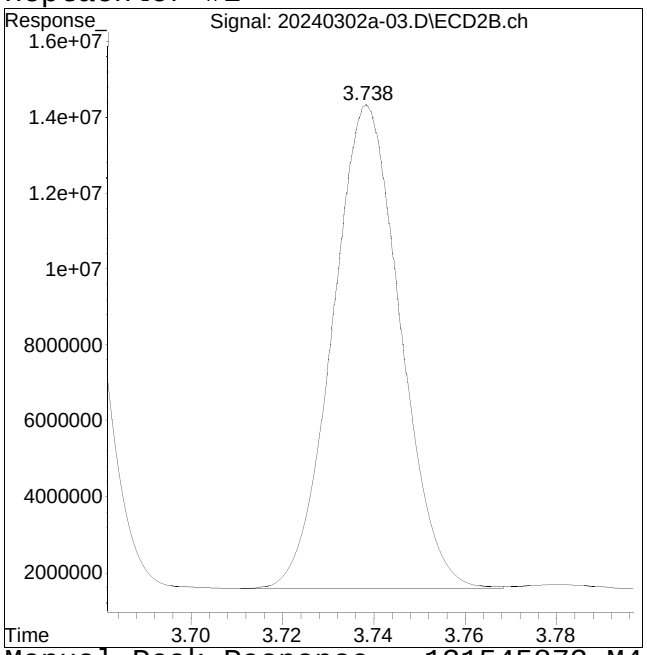
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240302QMethod : pest20_2023_12_15_ugL_IC
Data File : 20240302a-03.D Operator : pest20:peg
Date Inj'd : 3/2/2024 6:55 am Instrument : PEST 20
Sample : wg1891472-1,42,,pest11430 Quant Date : 3/2/2024 8:05 am

Compound #46: Heptachlor #2



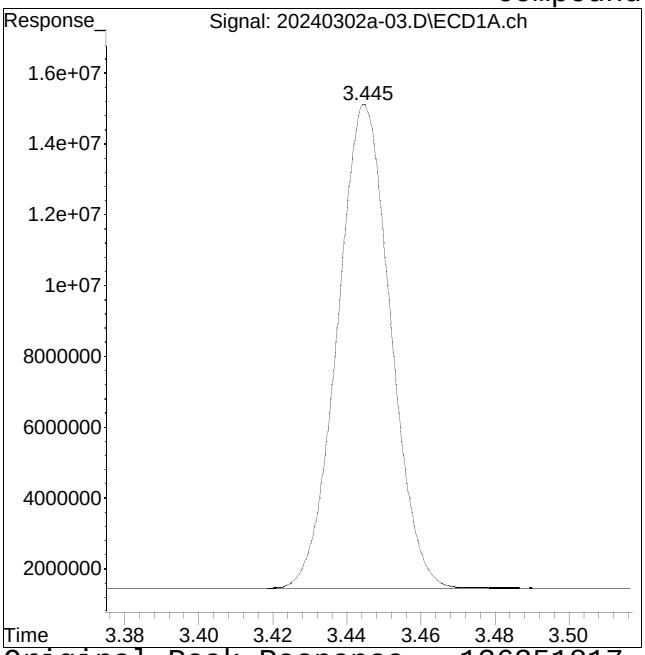


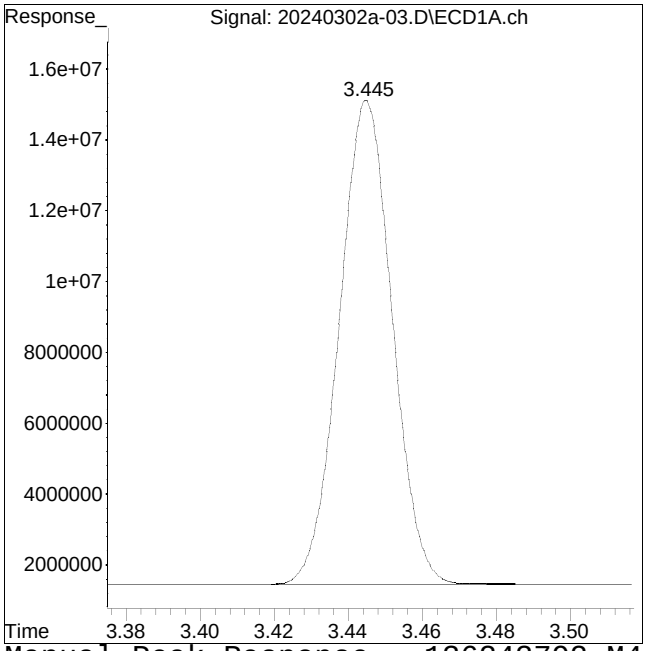
Original Peak Response = 133354749 Manual Peak Response = 131545873 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240302QMethod : pest20_2023_12_15_ugL_IC
Data File : 20240302a-03.D Operator : pest20:peg
Date Inj'd : 3/2/2024 6:55 am Instrument : PEST 20
Sample : wg1891472-1,42,,pest11430 Quant Date : 3/2/2024 8:05 am

Compound #9: Aldrin



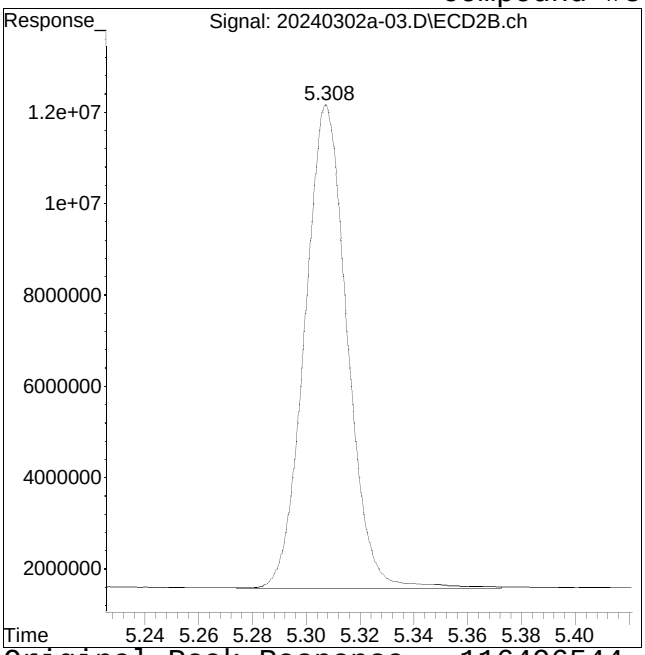


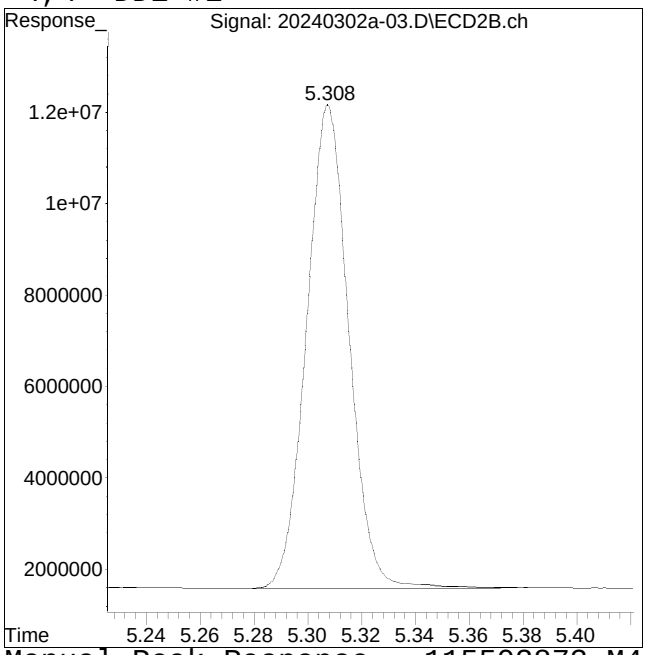
Original Peak Response = 136351817 Manual Peak Response = 136243792 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240302QMethod : pest20_2023_12_15_ugL_IC
Data File : 20240302a-03.D Operator : pest20:peg
Date Inj'd : 3/2/2024 6:55 am Instrument : PEST 20
Sample : wg1891472-1,42,,pest11430 Quant Date : 3/2/2024 8:05 am

Compound #53: 4,4'-DDE #2



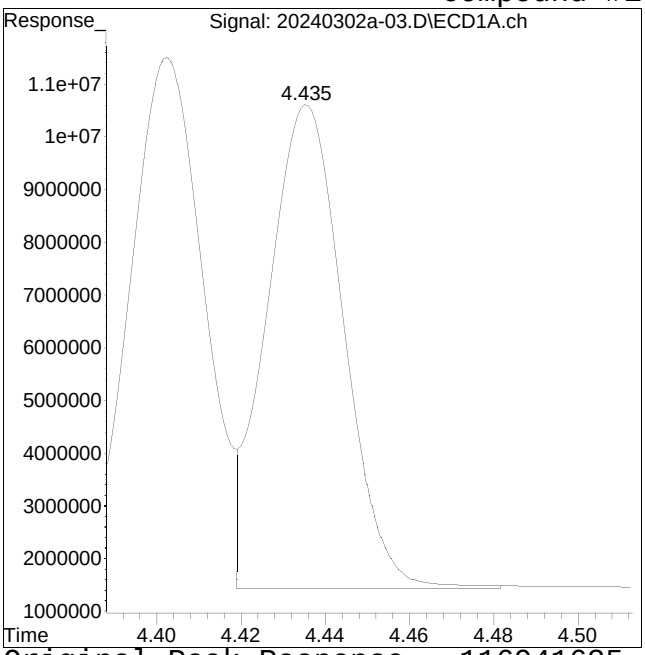


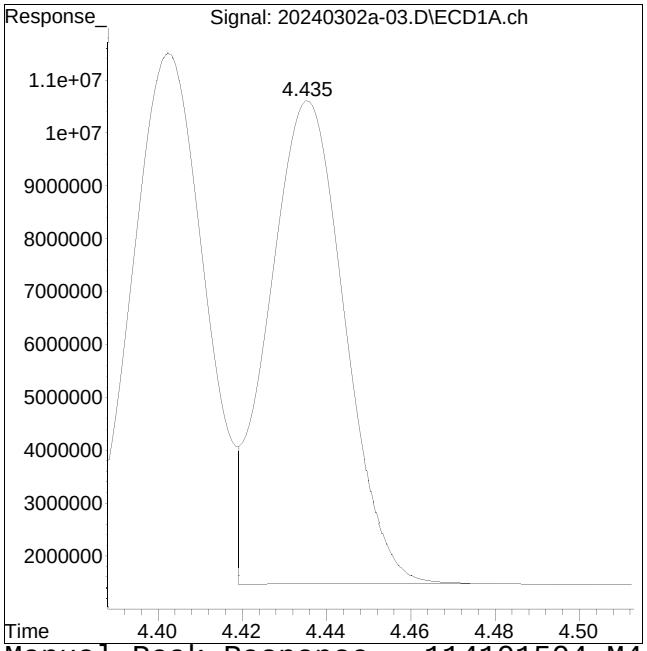
Original Peak Response = 116496544 Manual Peak Response = 115503873 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240302QMethod : pest20_2023_12_15_ugL_IC
Data File : 20240302a-03.D Operator : pest20:peg
Date Inj'd : 3/2/2024 6:55 am Instrument : PEST 20
Sample : wg1891472-1,42,,pest11430 Quant Date : 3/2/2024 8:05 am

Compound #16: Endosulfan I



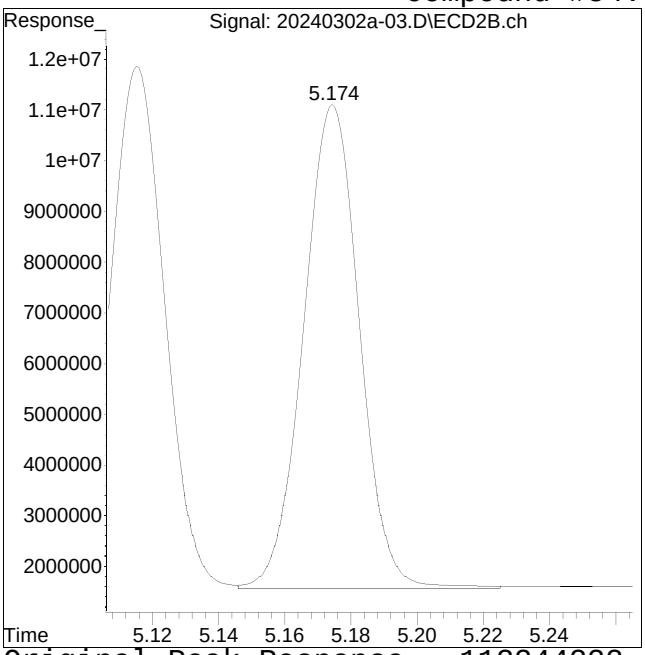


Original Peak Response = 116941635 Manual Peak Response = 114101504 M4
M4 = Poor automated baseline construction.

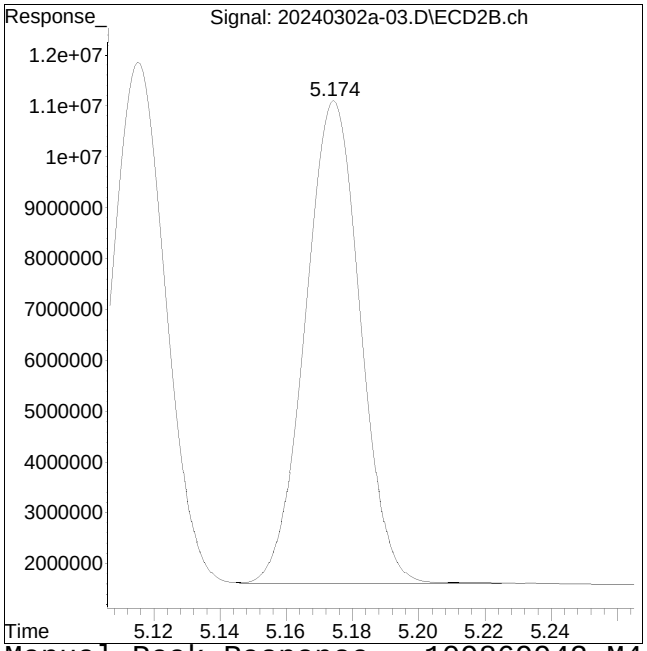
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240302QMethod : pest20_2023_12_15_ugL_IC
Data File : 20240302a-03.D Operator : pest20:peg
Date Inj'd : 3/2/2024 6:55 am Instrument : PEST 20
Sample : wg1891472-1,42,,pest11430 Quant Date : 3/2/2024 8:05 am

Compound #54: Endosulfan I #2



Original Peak Response = 112244222



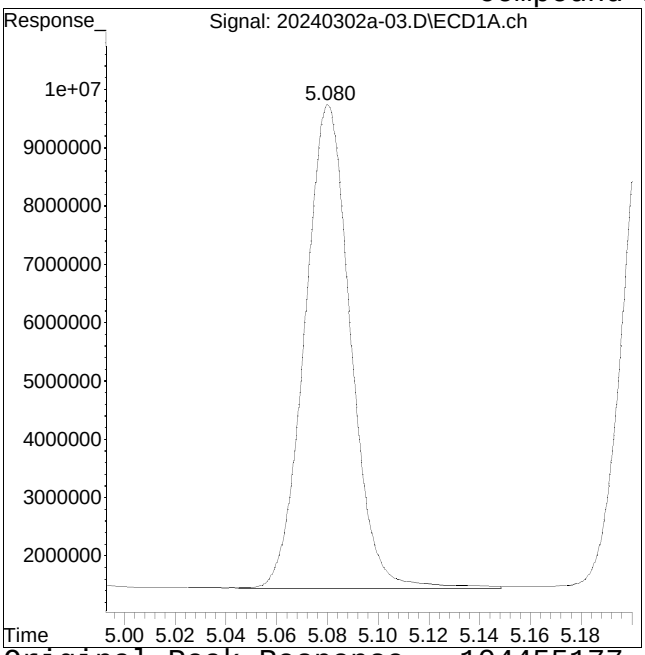
Manual Peak Response = 109869942 M4

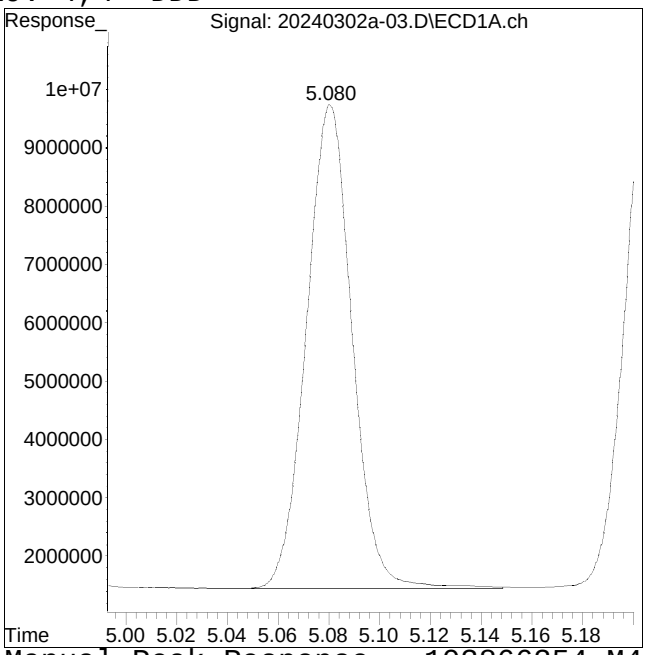
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240302QMethod : pest20_2023_12_15_ugL_IC
Data File : 20240302a-03.D Operator : pest20:peg
Date Inj'd : 3/2/2024 6:55 am Instrument : PEST 20
Sample : wg1891472-1,42,,pest11430 Quant Date : 3/2/2024 8:05 am

Compound #19: 4,4'-DDD



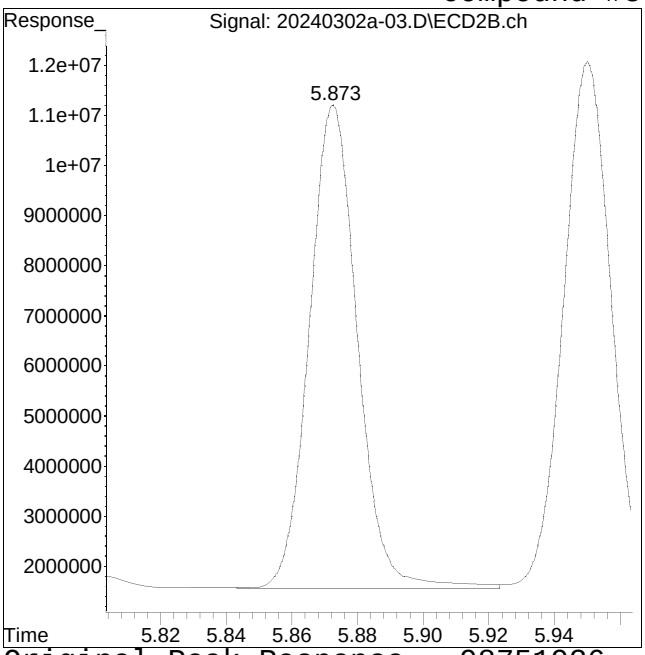


Original Peak Response = 104455177 Manual Peak Response = 103866354 M4
M4 = Poor automated baseline construction.

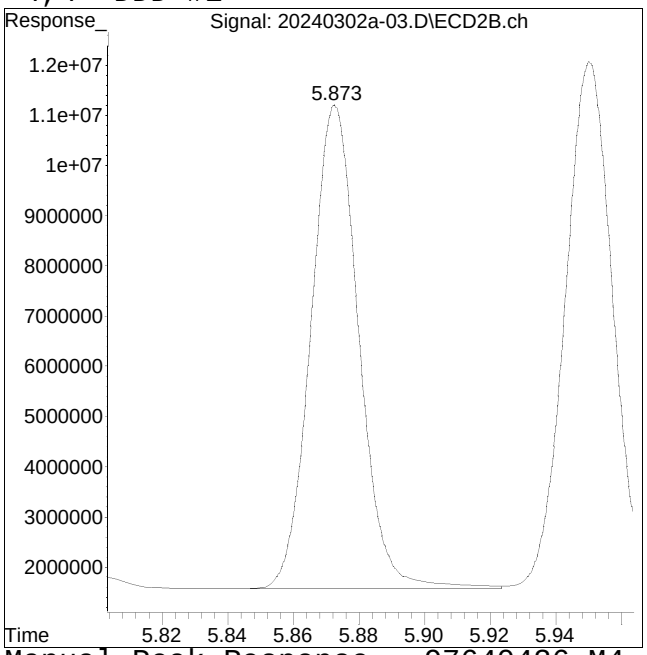
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240302QMethod : pest20_2023_12_15_ugL_IC
Data File : 20240302a-03.D Operator : pest20:peg
Date Inj'd : 3/2/2024 6:55 am Instrument : PEST 20
Sample : wg1891472-1,42,,pest11430 Quant Date : 3/2/2024 8:05 am

Compound #57: 4,4'-DDD #2



Original Peak Response = 98751936



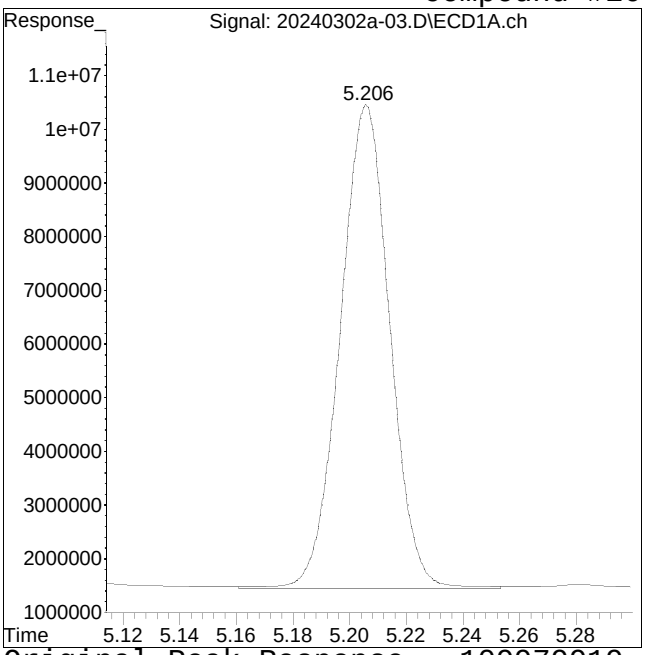
Manual Peak Response = 97640436 M4

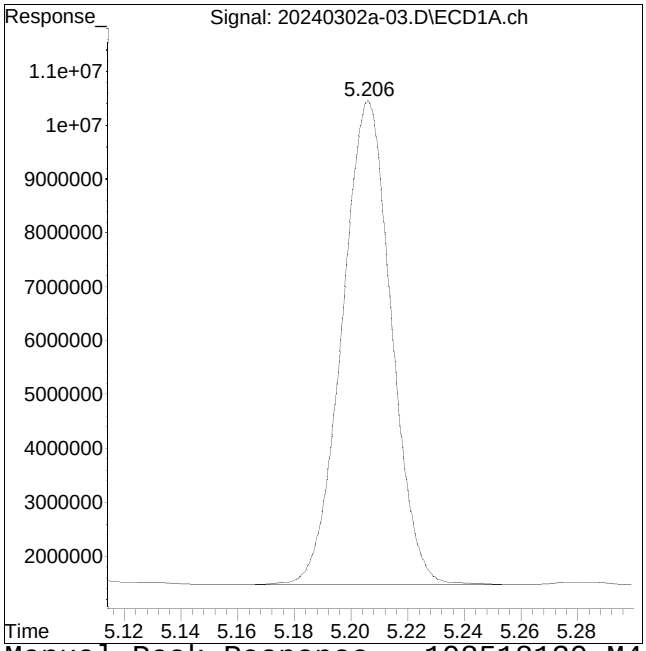
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240302QMethod : pest20_2023_12_15_ugL_IC
Data File : 20240302a-03.D Operator : pest20:peg
Date Inj'd : 3/2/2024 6:55 am Instrument : PEST 20
Sample : wg1891472-1,42,,pest11430 Quant Date : 3/2/2024 8:05 am

Compound #20: Endosulfan II



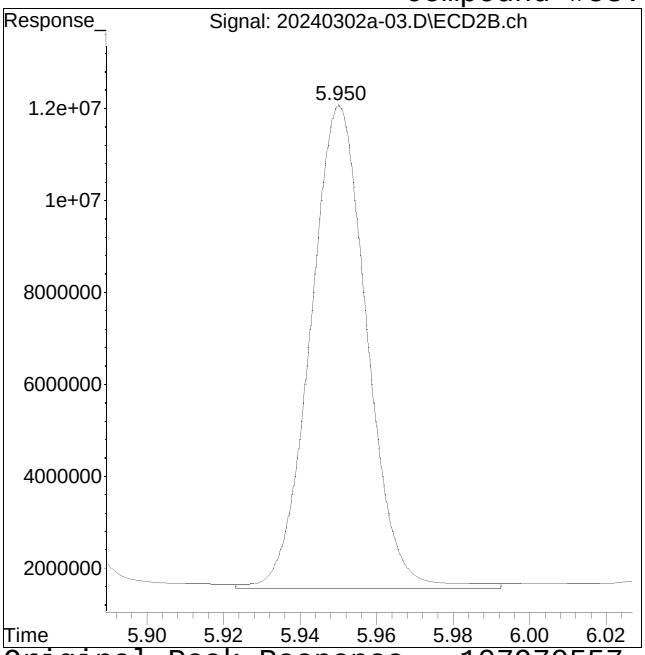


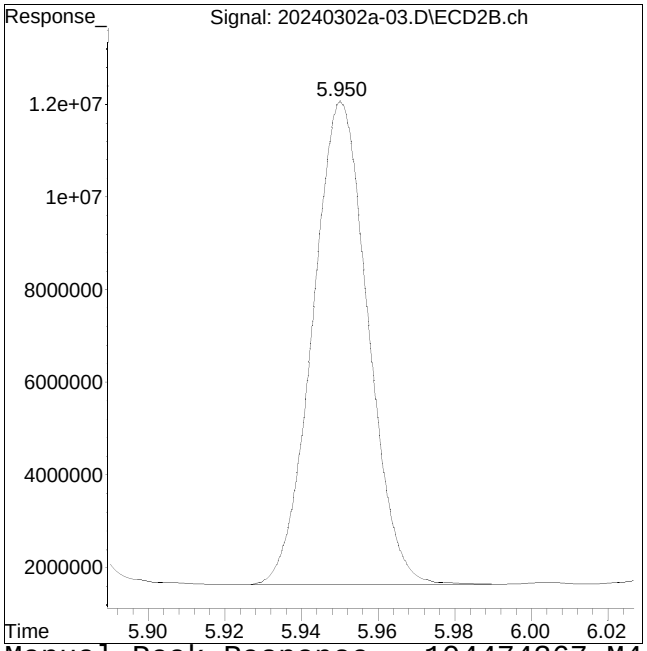
Original Peak Response = 109979919 Manual Peak Response = 108518130 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240302QMethod : pest20_2023_12_15_ugL_IC
Data File : 20240302a-03.D Operator : pest20:peg
Date Inj'd : 3/2/2024 6:55 am Instrument : PEST 20
Sample : wg1891472-1,42,,pest11430 Quant Date : 3/2/2024 8:05 am

Compound #58: Endosulfan II #2



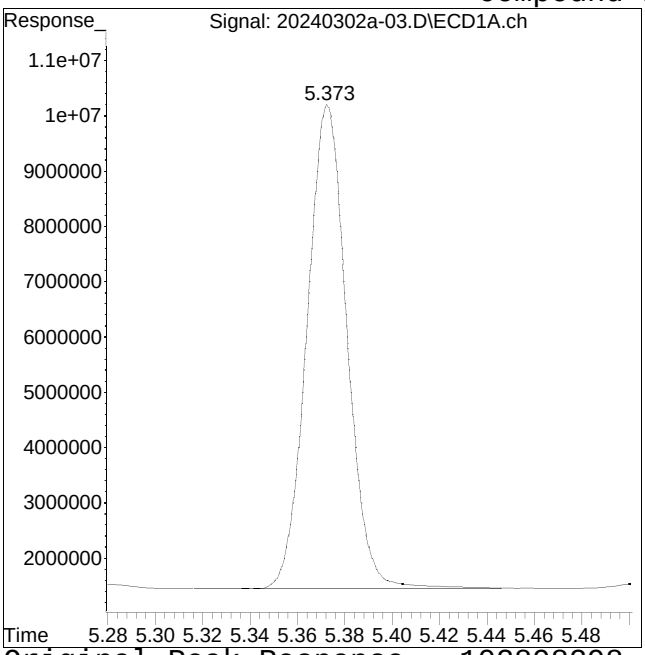


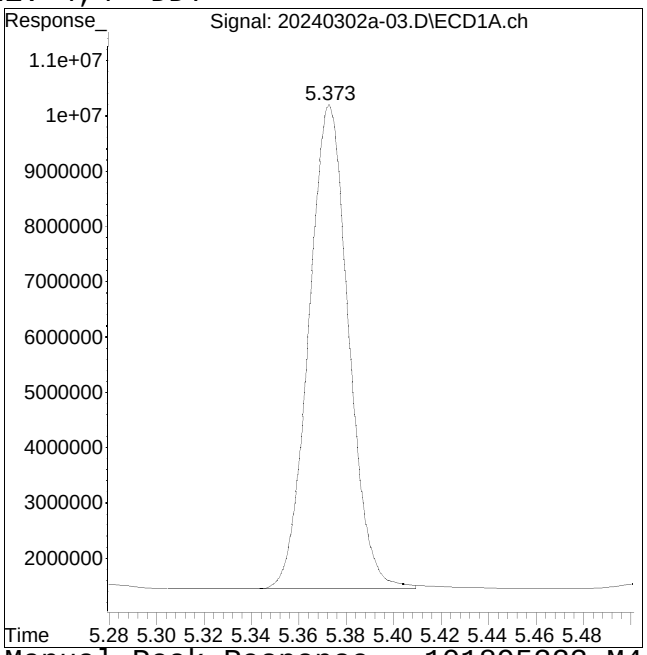
Original Peak Response = 107970557 Manual Peak Response = 104474367 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240302QMethod : pest20_2023_12_15_ugL_IC
Data File : 20240302a-03.D Operator : pest20:peg
Date Inj'd : 3/2/2024 6:55 am Instrument : PEST 20
Sample : wg1891472-1,42,,pest11430 Quant Date : 3/2/2024 8:05 am

Compound #21: 4,4'-DDT



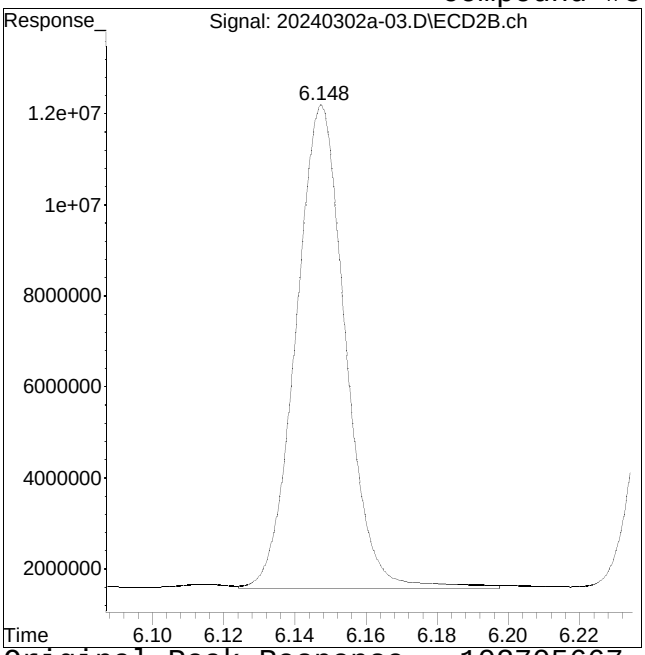


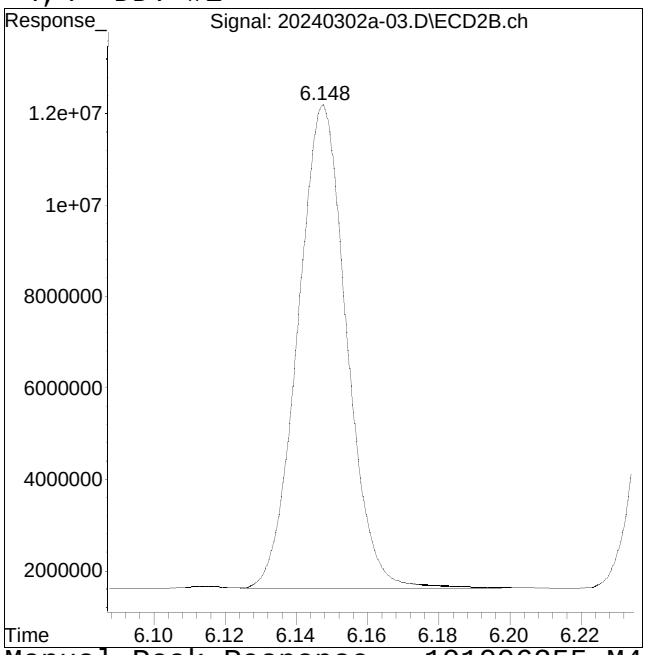
Original Peak Response = 102898298 Manual Peak Response = 101895323 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240302QMethod : pest20_2023_12_15_ugL_IC
Data File : 20240302a-03.D Operator : pest20:peg
Date Inj'd : 3/2/2024 6:55 am Instrument : PEST 20
Sample : wg1891472-1,42,,pest11430 Quant Date : 3/2/2024 8:05 am

Compound #59: 4,4'-DDT #2



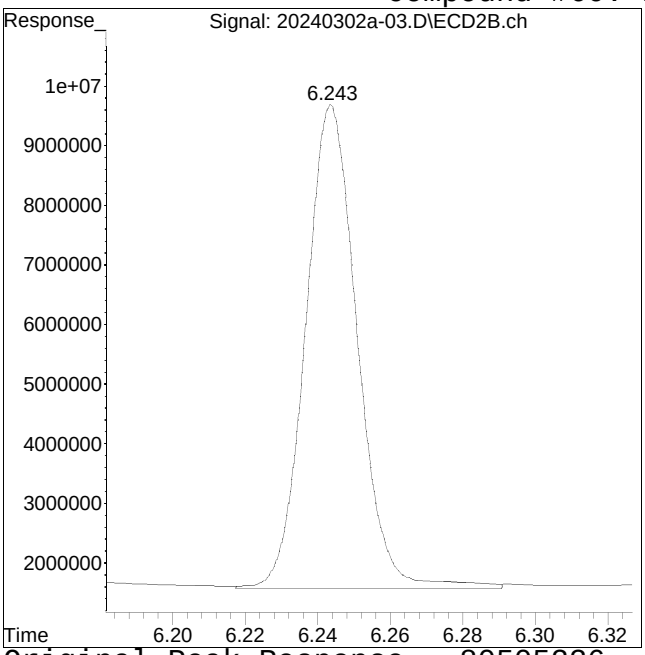


Original Peak Response = 102705667 Manual Peak Response = 101006255 M4
M4 = Poor automated baseline construction.

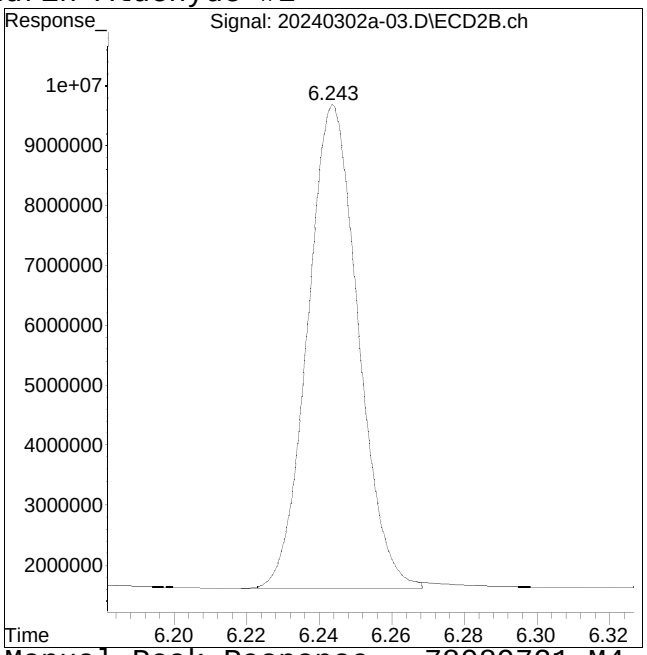
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240302QMethod : pest20_2023_12_15_ugL_IC
Data File : 20240302a-03.D Operator : pest20:peg
Date Inj'd : 3/2/2024 6:55 am Instrument : PEST 20
Sample : wg1891472-1,42,,pest11430 Quant Date : 3/2/2024 8:05 am

Compound #60: Endrin Aldehyde #2



Original Peak Response = 80505236

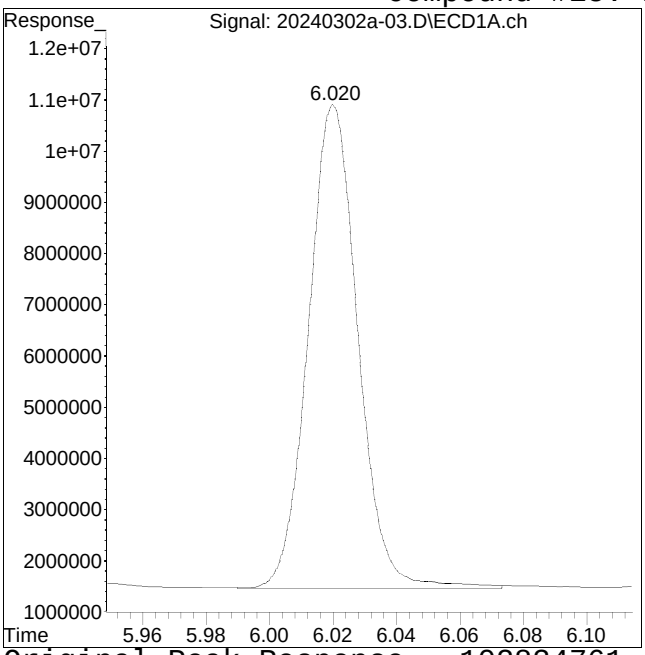


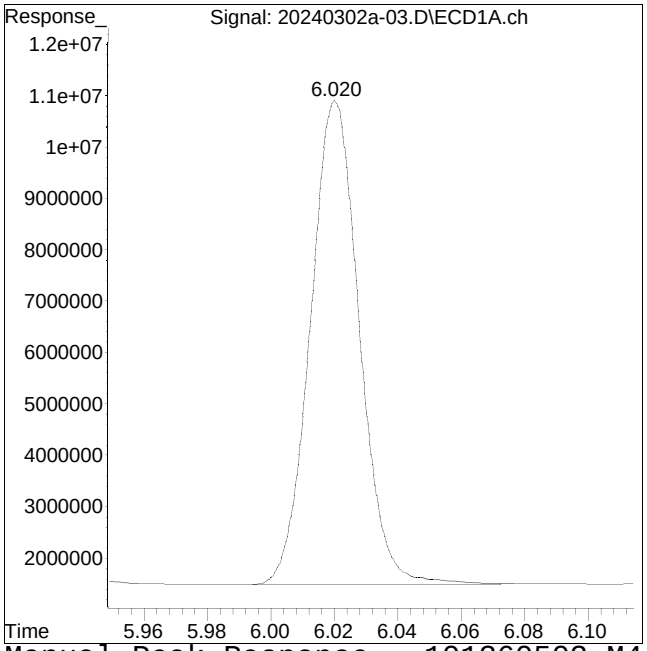
Manual Peak Response = 78089721 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240302QMethod : pest20_2023_12_15_ugL_IC
Data File : 20240302a-03.D Operator : pest20:peg
Date Inj'd : 3/2/2024 6:55 am Instrument : PEST 20
Sample : wg1891472-1,42,,pest11430 Quant Date : 3/2/2024 8:05 am

Compound #25: Endosulfan Sulfate



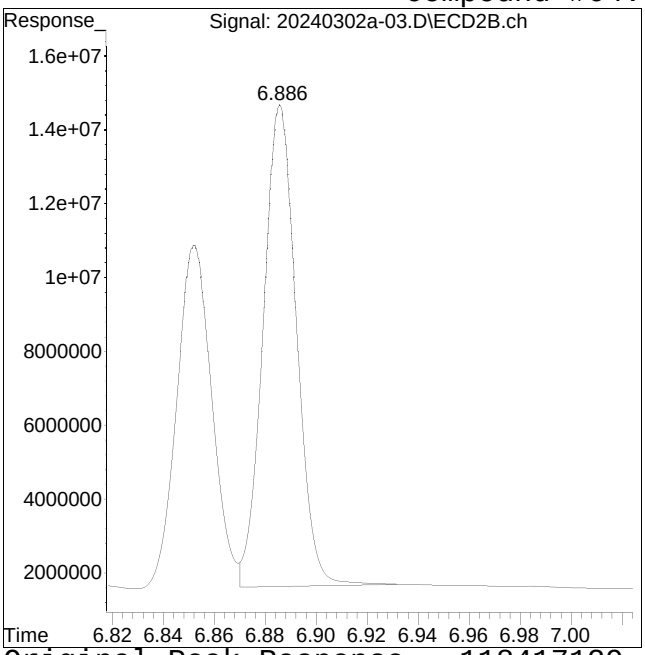


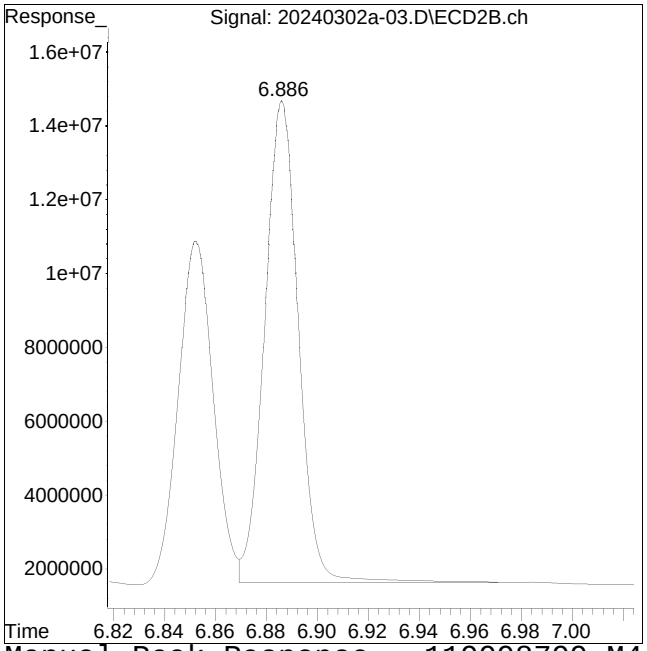
Original Peak Response = 102834761 Manual Peak Response = 101360503 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240302QMethod : pest20_2023_12_15_ugL_IC
Data File : 20240302a-03.D Operator : pest20:peg
Date Inj'd : 3/2/2024 6:55 am Instrument : PEST 20
Sample : wg1891472-1,42,,pest11430 Quant Date : 3/2/2024 8:05 am

Compound #64: Endrin Ketone #2





Original Peak Response = 118417129 Manual Peak Response = 119998799 M4
M4 = Poor automated baseline construction.

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest20\2024\240302a\
Data File : 20240302a-04.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 02 Mar 2024 07:08 am
Operator : pest20:peg
Sample   : wg1891472-2,42,,chlor11437 (Sig #1); chlor11437 (Sig #2)
Misc   : wg1891472,,ical20686
ALS Vial : 4   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Mar 02 08:07:26 2024
Quant Method : I:\PEST\Pest20\2024\240302a\pest20_2023_12_15_ugL_ICAL20686.m
Quant Title : pest
QLast Update : Sat Mar 02 08:07:40 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
28	i	1-br-2-nb_Chlordane	^	1.000	1.000	0.0	119	0.00
29	l1	chlordane-1		*1000.000	1016.994	-1.7	117	0.00
30	l1	chlordane-3		*1000.000	1119.452	-11.9	124	0.00
31	l1	chlordane-4		*1000.000	1122.956	-12.3	131	0.00
32	l1	chlordane-5		*1000.000	1245.220	-24.5#	144	0.00

Signal #2

28	i	1-br-2-nb_Chlordane	^	1.000	1.000	0.0	126	0.00
29	l1	chlordane-1		*1000.000	971.317	2.9	117	0.00
30	l1	chlordane-3		*1000.000	1061.393	-6.1	122	0.00
31	l1	chlordane-4		*1000.000	1003.238	-0.3	122	0.00
32	l1	chlordane-5		*1000.000	1001.038	-0.1	121	0.00

Evaluate Continuing Calibration Report - Not Founds

1	i	1-br-2-nb_Pesticides	^	1.000	1.000	0.0	0	-1.76#
2	s	2,4,5,6-Tetrachloro-m-xylen		1.132	0.000	100.0#	0#	-2.21#
3		Hexachlorobenzene	*	50.000	0.000	100.0#	0	-2.46#
4		alpha-BHC		1.400	0.000	100.0#	0#	-2.58#
5		gamma-BHC (lindane)		1.298	0.000	100.0#	0#	-2.81#
6		beta-BHC	*	50.000	0.000	100.0#	0	-2.87#
7		delta-BHC	*	50.000	0.000	100.0#	0	-3.01#
8		Heptachlor	*	50.000	0.000	100.0#	0	-3.19#
9		Aldrin		1.259	0.000	100.0#	0#	-3.44#
10		Alachlor		0.191	0.000	100.0#	0#	-3.59#
11		Chlorpyrifos	*	50.000	0.000	100.0#	0	-3.68#
12		Heptachlor Epoxide	*	50.000	0.000	100.0#	0	-4.02#
13		gamma-Chlordane (trans)		1.107	0.000	100.0#	0#	-4.16#

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest20\2024\240302a\
Data File : 20240302a-04.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 02 Mar 2024 07:08 am
Operator : pest20:peg
Sample   : wg1891472-2,42,,chlor11437 (Sig #1); chlor11437 (Sig #2)
Misc   : wg1891472,,ical20686
ALS Vial : 4   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Mar 02 08:07:26 2024
Quant Method : I:\PEST\Pest20\2024\240302a\pest20_2023_12_15_ugL_ICAL20686.m
Quant Title : pest
QLast Update : Sat Mar 02 08:07:40 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
14		alpha-Chlordane (cis)	*	50.000	0.000	100.0#	0	-4.30#
15		4,4'-DDE		1.202	0.000	100.0#	0#	-4.40#
16		Endosulfan I	*	50.000	0.000	100.0#	0	-4.44#
17		Dieldrin		1.151	0.000	100.0#	0#	-4.71#
18		Endrin		1.119	0.000	100.0#	0#	-4.96#
19		4,4'-DDD		0.901	0.000	100.0#	0#	-5.08#
20		Endosulfan II		1.020	0.000	100.0#	0#	-5.21#
21		4,4'-DDT		0.888	0.000	100.0#	0#	-5.37#
22		Endrin Aldehyde	*	50.000	0.000	100.0#	0	-5.63#
23		Methoxychlor	*	50.000	0.000	100.0#	0	-5.86#
24		Mirex	*	50.000	0.000	100.0#	0	-5.92#
25		Endosulfan Sulfate		0.990	0.000	100.0#	0#	-6.02#
26		Endrin Ketone		1.046	0.000	100.0#	0#	-6.25#
27	s	Decachlorobiphenyl	*	50.000	0.000	100.0#	0	-7.06#
33	i	1-br-2-nb_Toxaphene	^	1.000	1.000	0.0	0	-1.76#
34	l2	toxaphene-1	*	2000.000	0.000	100.0#	0	-5.20#
35	l2	toxaphene-2	*	2000.000	0.000	100.0#	0	-5.74#
36	l2	toxaphene-4	*	2000.000	0.000	100.0#	0	-5.84#
37	l2	toxaphene-5	*	2000.000	0.000	100.0#	0	-5.93#

Signal #2

1	i	1-br-2-nb_Pesticides	^	1.000	1.000	0.0	0	-1.92#
2	s	2,4,5,6-Tetrachloro-m-xyl		1.221	0.000	100.0#	0#	-2.52#
3		Hexachlorobenzene	*	50.000	0.000	100.0#	0	-2.88#
4		alpha-BHC		1.460	0.000	100.0#	0#	-3.00#
5		gamma-BHC (lindane)		1.359	0.000	100.0#	0#	-3.31#
6		beta-BHC	*	50.000	0.000	100.0#	0	-3.39#
7		delta-BHC		1.352	0.000	100.0#	0#	-3.67#

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest20\2024\240302a\
Data File : 20240302a-04.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 02 Mar 2024 07:08 am
Operator : pest20:peg
Sample   : wg1891472-2,42,,chlor11437 (Sig #1); chlor11437 (Sig #2)
Misc   : wg1891472,,ical20686
ALS Vial : 4   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Mar 02 08:07:26 2024
Quant Method : I:\PEST\Pest20\2024\240302a\pest20_2023_12_15_ugL_ICAL20686.m
Quant Title : pest
QLast Update : Sat Mar 02 08:07:40 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
8		Heptachlor		1.192	0.000	100.0#	0#	-3.74#
9		Aldrin		1.257	0.000	100.0#	0#	-4.08#
10		Alachlor		0.182	0.000	100.0#	0#	-3.96#
11		Chlorpyrifos		0.627	0.000	100.0#	0#	-4.33#
12		Heptachlor Epoxide	*	50.000	0.000	100.0#	0	-4.73#
13		gamma-Chlordane (trans)		1.083	0.000	100.0#	0#	-4.95#
14		alpha-Chlordane (cis)	*	50.000	0.000	100.0#	0	-5.12#
15		4,4'-DDE		1.188	0.000	100.0#	0#	-5.31#
16		Endosulfan I		1.136	0.000	100.0#	0#	-5.17#
17		Dieldrin		1.148	0.000	100.0#	0#	-5.46#
18		Endrin		1.141	0.000	100.0#	0#	-5.75#
19		4,4'-DDD		0.915	0.000	100.0#	0#	-5.87#
20		Endosulfan II		1.028	0.000	100.0#	0#	-5.95#
21		4,4'-DDT		0.924	0.000	100.0#	0#	-6.15#
22		Endrin Aldehyde	*	50.000	0.000	100.0#	0	-6.24#
23		Methoxychlor	*	50.000	0.000	100.0#	0	-6.71#
24		Mirex	*	50.000	0.000	100.0#	0	-6.85#
25		Endosulfan Sulfate		0.987	0.000	100.0#	0#	-6.47#
26		Endrin Ketone		1.066	0.000	100.0#	0#	-6.89#
27	s	Decachlorobiphenyl	*	50.000	0.000	100.0#	0	-7.78#
33	i	1-br-2-nb_Toxaphene	^	1.000	1.000	0.0	0	-1.92#
34	l2	toxaphene-1	*	2000.000	0.000	100.0#	0	-5.91#
35	l2	toxaphene-2	*	2000.000	0.000	100.0#	0	-5.94#
36	l2	toxaphene-4	*	2000.000	0.000	100.0#	0	-6.25#
37	l2	toxaphene-5	*	2000.000	0.000	100.0#	0	-6.66#

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0
(^) = ISTD area calculated using ICAL average

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest20\2024\240302a\
Data File : 20240302a-04.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 02 Mar 2024 07:08 am
Operator : pest20:peg
Sample : wg1891472-2,42,,chlor11437 (Sig #1); chlor11437 (Sig #2)
Misc : wg1891472,,ical20686
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Mar 02 08:07:26 2024
Quant Method : I:\PEST\Pest20\2024\240302a\pest20_2023_12_15_ugL_ICAL20686.m
Quant Title : pest
QLast Update : Sat Mar 02 08:07:40 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	1.763	1.923	57609875	58728964	25.000	25.000
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
	Target Compounds						
3)	Hexachlorobe	0.000	0.000	0	0	N.D. d	N.D. d
4)	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6)	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8)	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9)	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10)	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11)	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12)	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13)	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14)	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17)	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18)	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22)	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d
23)	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest20\2024\240302a\
Data File : 20240302a-04.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 02 Mar 2024 07:08 am
Operator : pest20:peg
Sample : wg1891472-2,42,,chlor11437 (Sig #1); chlor11437 (Sig #2)
Misc : wg1891472,,ical20686
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Mar 02 08:07:26 2024
Quant Method : I:\PEST\Pest20\2024\240302a\pest20_2023_12_15_ugL_ICAL20686.m
Quant Title : pest
QLast Update : Sat Mar 02 08:07:40 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
24)		Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25)		Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26)		Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29)	l1	chlordane-1	3.118	3.593	82398619	80279125	1016.994	971.317
30)	l1	chlordane-3	3.570	4.241	98981549	93016920	1119.452	1061.393M4
31)	l1	chlordane-4	4.155	4.952	348.6E6	292.7E6	1122.956	1003.238
32)	l1	chlordane-5	4.285	5.116	594.6E6	239.3E6	1245.220M3	1001.038
	Sum	chlordane-1			1124.6E6	705.3E6	N.D.	N.D. D
Average		chlordane-1					1126.155	1009.246
34)	l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35)	l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36)	l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37)	l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum	toxaphene-1			0	0	N.D.	N.D.
Average		toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

	Sum	toxaphene-1			0	0	N.D.	N.D.
Average		toxaphene-1					0.000	0.000

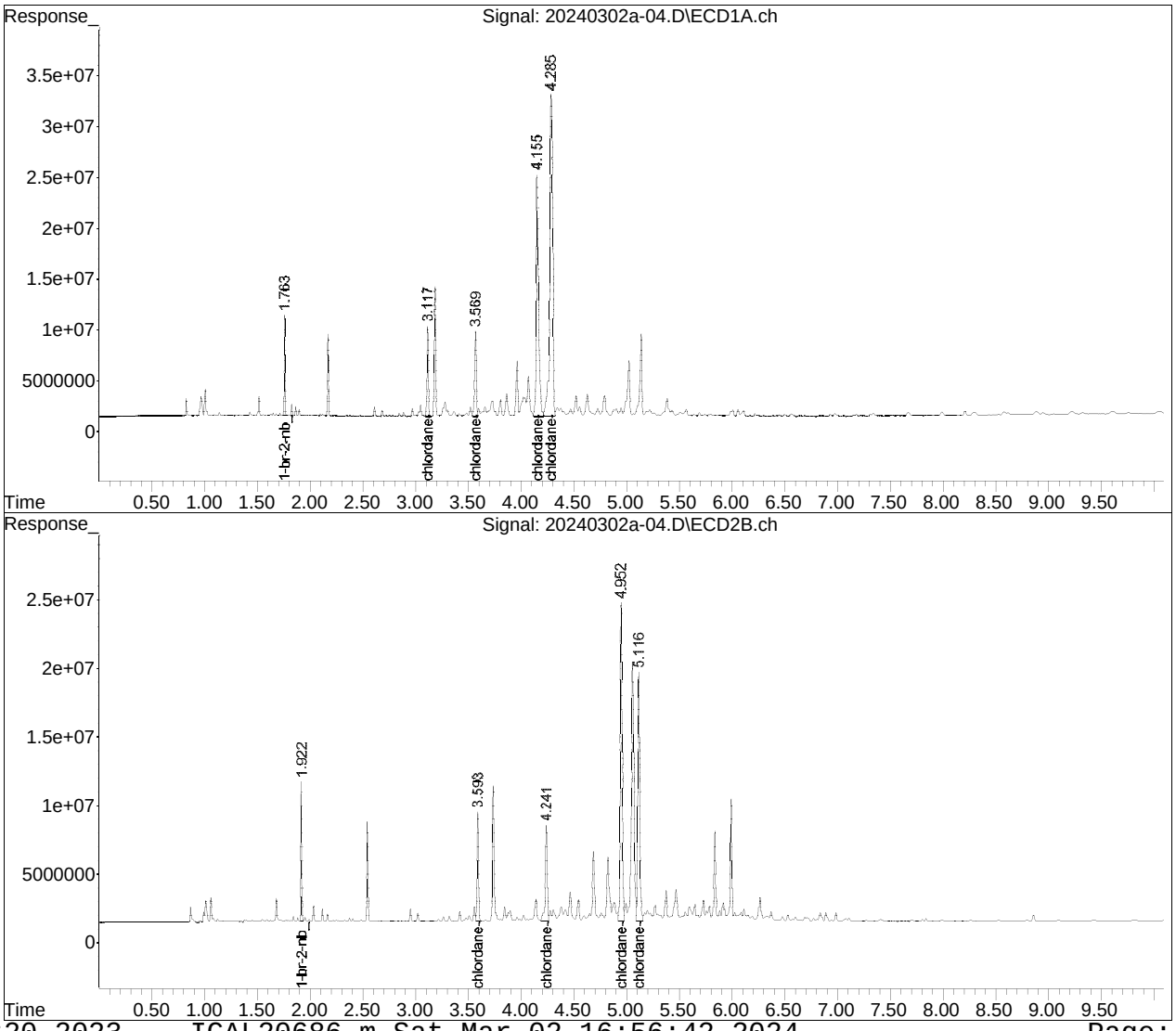
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest20\2024\240302a\
Data File : 20240302a-04.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 02 Mar 2024 07:08 am
Operator : pest20:peg
Sample : wg1891472-2,42,,chlor11437 (Sig #1); chlor11437 (Sig #2)
Misc : wg1891472,,ical20686
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Mar 02 08:07:26 2024
Quant Method : I:\PEST\Pest20\2024\240302a\pest20_2023_12_15_ugL_ICAL20686.m
Quant Title : pest
QLast Update : Sat Mar 02 08:07:40 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

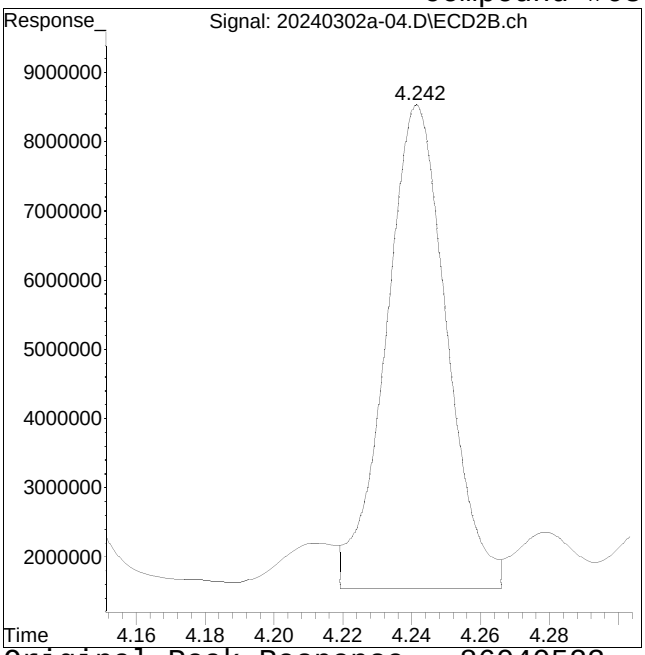


Manual Integration Report

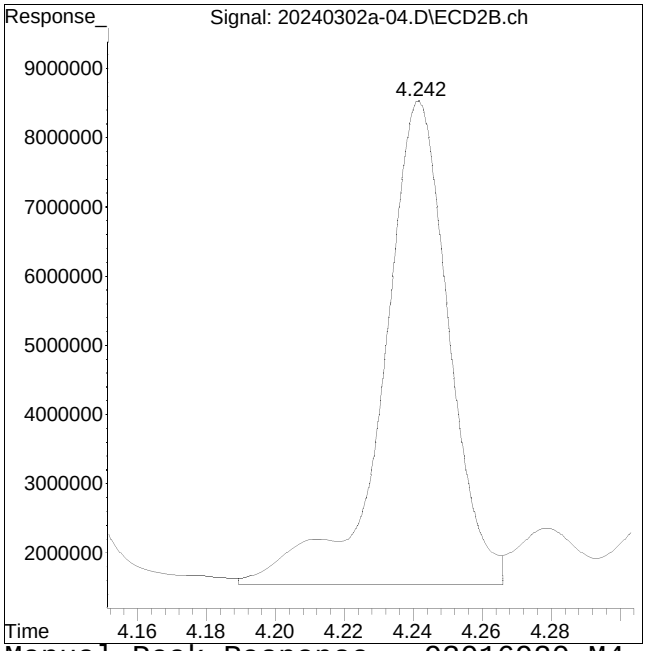
Data Path : I:\PEST\Pest20\2024\240302Q
Data File : 20240302a-04.D
Date Inj'd : 3/2/2024 7:08 am
Sample : wg1891472-2,42,,chlor11437

Method : pest20_2023_12_15_ugL_IC
Operator : pest20:peg
Instrument : PEST 20
Quant Date : 3/2/2024 8:07 am

Compound #68: chlordane-3 #2



Original Peak Response = 86040523



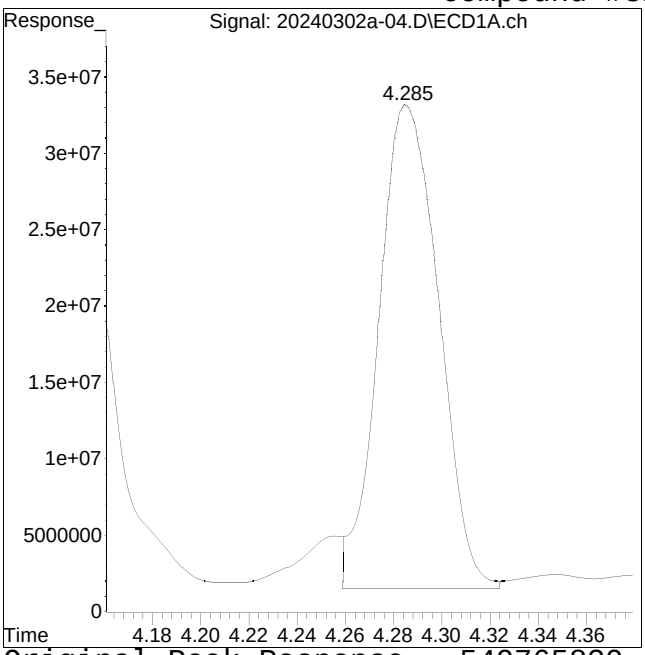
Manual Peak Response = 93016920 M4

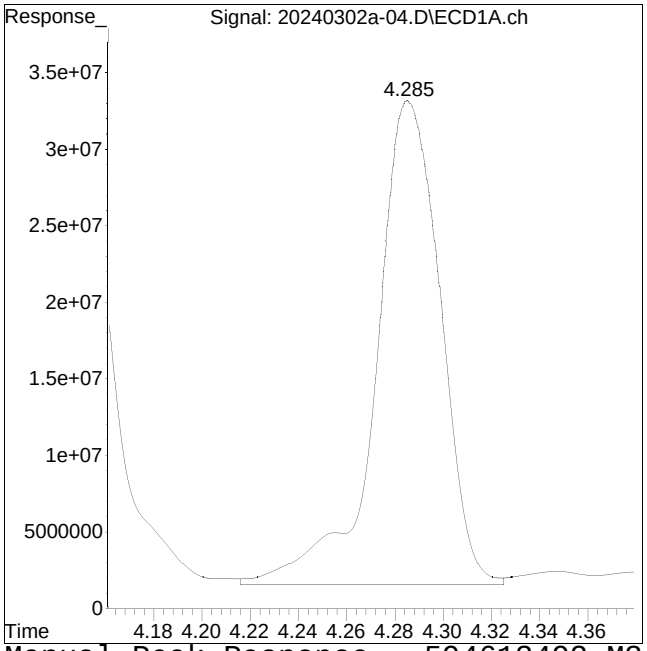
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240302QMethod : pest20_2023_12_15_ugL_IC
Data File : 20240302a-04.D Operator : pest20:peg
Date Inj'd : 3/2/2024 7:08 am Instrument : PEST 20
Sample : wg1891472-2,42,,chlor11437Quant Date : 3/2/2024 8:07 am

Compound #32: chlordane-5





Original Peak Response = 549765839 Manual Peak Response = 594613492 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest20\2024\240302a\
Data File : 20240302a-05.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 02 Mar 2024 07:20 am
Operator : pest20:peg
Sample   : wg1891472-3,42,,tox11438 (Sig #1); tox11438 (Sig #2)
Misc   : wg1891472,,ical20686
ALS Vial : 5   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Mar 02 08:11:42 2024
Quant Method : I:\PEST\Pest20\2024\240302a\pest20_2023_12_15_ugL_ICAL20686.m
Quant Title : pest
QLast Update : Sat Mar 02 08:11:37 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
33	i	1-br-2-nb_Toxaphene	^	1.000	1.000	0.0	134	0.00
34	l2	toxaphene-1		*2000.000	2362.094	-18.1	149	0.00
35	l2	toxaphene-2		*2000.000	2641.062	-32.1#	173	0.00
36	l2	toxaphene-4		*2000.000	2334.023	-16.7	153	0.00
37	l2	toxaphene-5		*2000.000	2500.695	-25.0#	162	0.00

Signal #2

33	i	1-br-2-nb_Toxaphene	^	1.000	1.000	0.0	139	0.00
34	l2	toxaphene-1		*2000.000	2316.048	-15.8	156	0.00
35	l2	toxaphene-2		*2000.000	2268.657	-13.4	150	0.00
36	l2	toxaphene-4		*2000.000	1921.895	3.9	129	0.00
37	l2	toxaphene-5		*2000.000	2248.524	-12.4	154	0.00

Evaluate Continuing Calibration Report - Not Founds

1	i	1-br-2-nb_Pesticides	^	1.000	1.000	0.0	0	-1.76#
2	s	2,4,5,6-Tetrachloro-m-xylen		1.132	0.000	100.0#	0#	-2.21#
3		Hexachlorobenzene		* 50.000	0.000	100.0#	0	-2.46#
4		alpha-BHC		1.400	0.000	100.0#	0#	-2.58#
5		gamma-BHC (lindane)		1.298	0.000	100.0#	0#	-2.81#
6		beta-BHC		* 50.000	0.000	100.0#	0	-2.87#
7		delta-BHC		* 50.000	0.000	100.0#	0	-3.01#
8		Heptachlor		* 50.000	0.000	100.0#	0	-3.19#
9		Aldrin		1.259	0.000	100.0#	0#	-3.44#
10		Alachlor		0.191	0.000	100.0#	0#	-3.59#
11		Chlorpyrifos		* 50.000	0.000	100.0#	0	-3.68#
12		Heptachlor Epoxide		* 50.000	0.000	100.0#	0	-4.02#
13		gamma-Chlordane (trans)		1.107	0.000	100.0#	0#	-4.16#

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest20\2024\240302a\
Data File : 20240302a-05.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 02 Mar 2024 07:20 am
Operator : pest20:peg
Sample   : wg1891472-3,42,,tox11438 (Sig #1); tox11438 (Sig #2)
Misc   : wg1891472,,ical20686
ALS Vial : 5   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Mar 02 08:11:42 2024
Quant Method : I:\PEST\Pest20\2024\240302a\pest20_2023_12_15_ugL_ICAL20686.m
Quant Title : pest
QLast Update : Sat Mar 02 08:11:37 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
14		alpha-Chlordane (cis)	*	50.000	0.000	100.0#	0	-4.30#
15		4,4'-DDE		1.202	0.000	100.0#	0#	-4.40#
16		Endosulfan I	*	50.000	0.000	100.0#	0	-4.44#
17		Dieldrin		1.151	0.000	100.0#	0#	-4.71#
18		Endrin		1.119	0.000	100.0#	0#	-4.96#
19		4,4'-DDD		0.901	0.000	100.0#	0#	-5.08#
20		Endosulfan II		1.020	0.000	100.0#	0#	-5.21#
21		4,4'-DDT		0.888	0.000	100.0#	0#	-5.37#
22		Endrin Aldehyde	*	50.000	0.000	100.0#	0	-5.63#
23		Methoxychlor	*	50.000	0.000	100.0#	0	-5.86#
24		Mirex	*	50.000	0.000	100.0#	0	-5.92#
25		Endosulfan Sulfate		0.990	0.000	100.0#	0#	-6.02#
26		Endrin Ketone		1.046	0.000	100.0#	0#	-6.25#
27	s	Decachlorobiphenyl	*	50.000	0.000	100.0#	0	-7.06#
28	i	1-br-2-nb_Chlordane	^	1.000	1.000	0.0	0	-1.76#
29	l1	chlordane-1	*	1000.000	0.000	100.0#	0	-3.12#
30	l1	chlordane-3	*	1000.000	0.000	100.0#	0	-3.57#
31	l1	chlordane-4	*	1000.000	0.000	100.0#	0	-4.16#
32	l1	chlordane-5	*	1000.000	0.000	100.0#	0	-4.28#

Signal #2

1	i	1-br-2-nb_Pesticides	^	1.000	1.000	0.0	0	-1.92#
2	s	2,4,5,6-Tetrachloro-m-xyl		1.221	0.000	100.0#	0#	-2.52#
3		Hexachlorobenzene	*	50.000	0.000	100.0#	0	-2.88#
4		alpha-BHC		1.460	0.000	100.0#	0#	-3.00#
5		gamma-BHC (lindane)		1.359	0.000	100.0#	0#	-3.31#
6		beta-BHC	*	50.000	0.000	100.0#	0	-3.39#
7		delta-BHC		1.352	0.000	100.0#	0#	-3.67#

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest20\2024\240302a\
Data File : 20240302a-05.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 02 Mar 2024 07:20 am
Operator : pest20:peg
Sample   : wg1891472-3,42,,tox11438 (Sig #1); tox11438 (Sig #2)
Misc   : wg1891472,,ical20686
ALS Vial : 5   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Mar 02 08:11:42 2024
Quant Method : I:\PEST\Pest20\2024\240302a\pest20_2023_12_15_ugL_ICAL20686.m
Quant Title : pest
QLast Update : Sat Mar 02 08:11:37 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
8		Heptachlor		1.192	0.000	100.0#	0#	-3.74#
9		Aldrin		1.257	0.000	100.0#	0#	-4.08#
10		Alachlor		0.182	0.000	100.0#	0#	-3.96#
11		Chlorpyrifos		0.627	0.000	100.0#	0#	-4.33#
12		Heptachlor Epoxide	*	50.000	0.000	100.0#	0	-4.73#
13		gamma-Chlordane (trans)		1.083	0.000	100.0#	0#	-4.95#
14		alpha-Chlordane (cis)	*	50.000	0.000	100.0#	0	-5.12#
15		4,4'-DDE		1.188	0.000	100.0#	0#	-5.31#
16		Endosulfan I		1.136	0.000	100.0#	0#	-5.17#
17		Dieldrin		1.148	0.000	100.0#	0#	-5.46#
18		Endrin		1.141	0.000	100.0#	0#	-5.75#
19		4,4'-DDD		0.915	0.000	100.0#	0#	-5.87#
20		Endosulfan II		1.028	0.000	100.0#	0#	-5.95#
21		4,4'-DDT		0.924	0.000	100.0#	0#	-6.15#
22		Endrin Aldehyde	*	50.000	0.000	100.0#	0	-6.24#
23		Methoxychlor	*	50.000	0.000	100.0#	0	-6.71#
24		Mirex	*	50.000	0.000	100.0#	0	-6.85#
25		Endosulfan Sulfate		0.987	0.000	100.0#	0#	-6.47#
26		Endrin Ketone		1.066	0.000	100.0#	0#	-6.89#
27	s	Decachlorobiphenyl	*	50.000	0.000	100.0#	0	-7.78#
28	i	1-br-2-nb_Chlordane	^	1.000	1.000	0.0	0	-1.92#
29	l1	chlordane-1	*	1000.000	0.000	100.0#	0	-3.59#
30	l1	chlordane-3	*	1000.000	0.000	100.0#	0	-4.24#
31	l1	chlordane-4	*	1000.000	0.000	100.0#	0	-4.95#
32	l1	chlordane-5	*	1000.000	0.000	100.0#	0	-5.12#

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0
(^) = ISTD area calculated using ICAL average

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest20\2024\240302a\
Data File : 20240302a-05.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 02 Mar 2024 07:20 am
Operator : pest20:peg
Sample : wg1891472-3,42,,tox11438 (Sig #1); tox11438 (Sig #2)
Misc : wg1891472,,ical20686
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Mar 02 08:11:42 2024
Quant Method : I:\PEST\Pest20\2024\240302a\pest20_2023_12_15_ugL_ICAL20686.m
Quant Title : pest
QLast Update : Sat Mar 02 08:11:37 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	1.763	1.922	59674726	58613857	25.000M4	25.000M4
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount 50.000	Range 30 - 150		Recovery =		0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount 50.000	Range 30 - 150		Recovery =		0.00%#	0.00%#
	Target Compounds						
3)	Hexachlorobe	0.000	0.000	0	0	N.D. d	N.D. d
4)	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6)	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8)	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9)	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10)	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11)	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12)	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13)	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14)	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17)	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18)	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22)	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest20\2024\240302a\
Data File : 20240302a-05.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 02 Mar 2024 07:20 am
Operator : pest20:peg
Sample : wg1891472-3,42,,tox11438 (Sig #1); tox11438 (Sig #2)
Misc : wg1891472,,ical20686
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Mar 02 08:11:42 2024
Quant Method : I:\PEST\Pest20\2024\240302a\pest20_2023_12_15_ugL_ICAL20686.m
Quant Title : pest
QLast Update : Sat Mar 02 08:11:37 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
23)	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
24)	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25)	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26)	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-1	5.197	5.909	201.7E6	112.8E6	2362.094	2316.048
35) l2	toxaphene-2	5.741	5.938	167.1E6	164.5E6	2641.062	2268.657
36) l2	toxaphene-4	5.841	6.252	111.2E6	160.7E6	2334.023	1921.895
37) l2	toxaphene-5	5.927	6.660	189.6E6	165.0E6	2500.695	2248.524
Sum	toxaphene-1			669.7E6	603.1E6	9837.874	8755.124
Average	toxaphene-1					2459.468	2188.781

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			669.7E6	603.1E6	9837.874	8755.124
Average	toxaphene-1					2459.468	2188.781

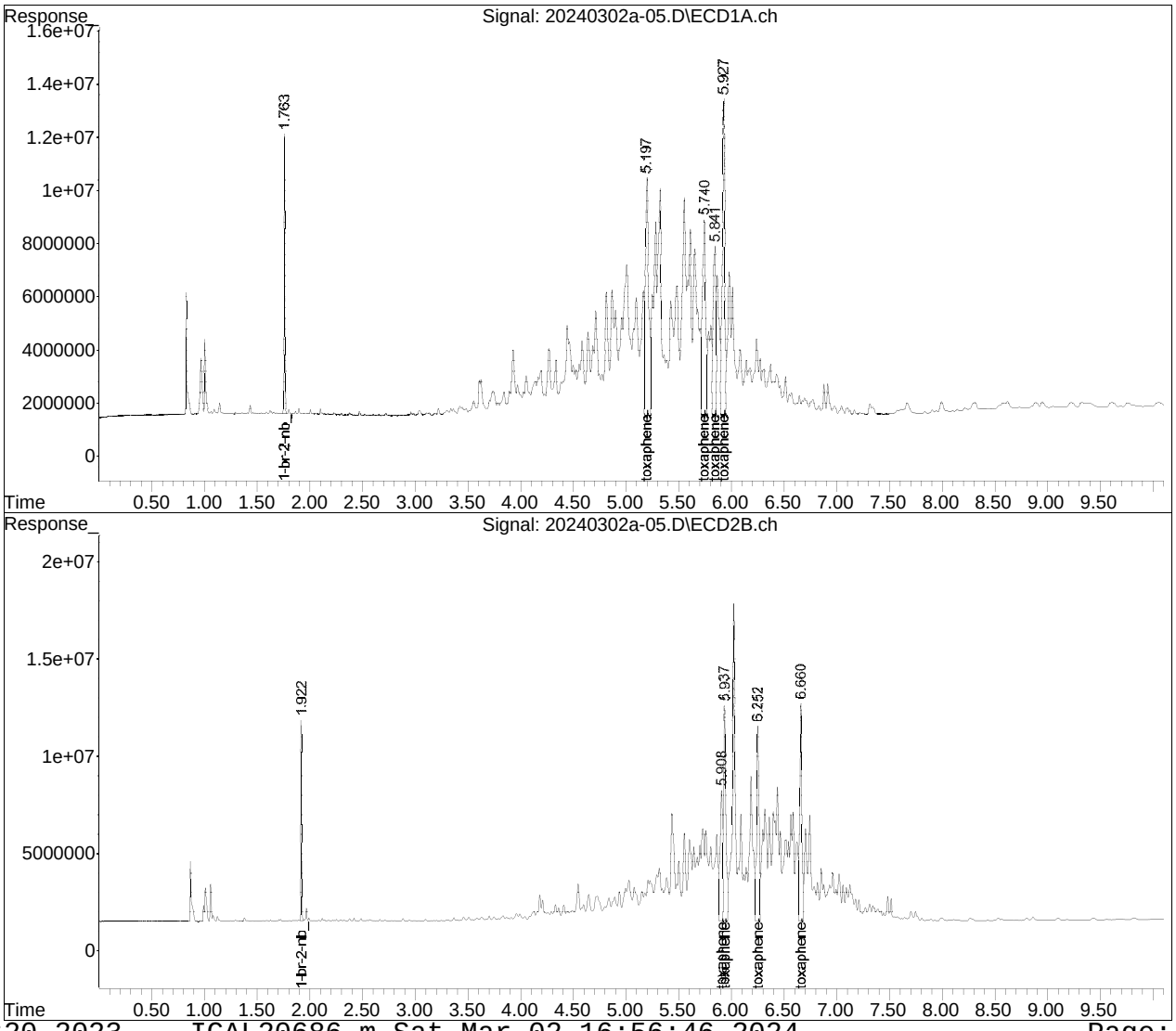
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest20\2024\240302a\
Data File : 20240302a-05.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 02 Mar 2024 07:20 am
Operator : pest20:peg
Sample : wg1891472-3,42,,tox11438 (Sig #1); tox11438 (Sig #2)
Misc : wg1891472,,ical20686
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Mar 02 08:11:42 2024
Quant Method : I:\PEST\Pest20\2024\240302a\pest20_2023_12_15_ugL_ICAL20686.m
Quant Title : pest
QLast Update : Sat Mar 02 08:11:37 2024
Response via : Initial Calibration
Integrator: ChemStation

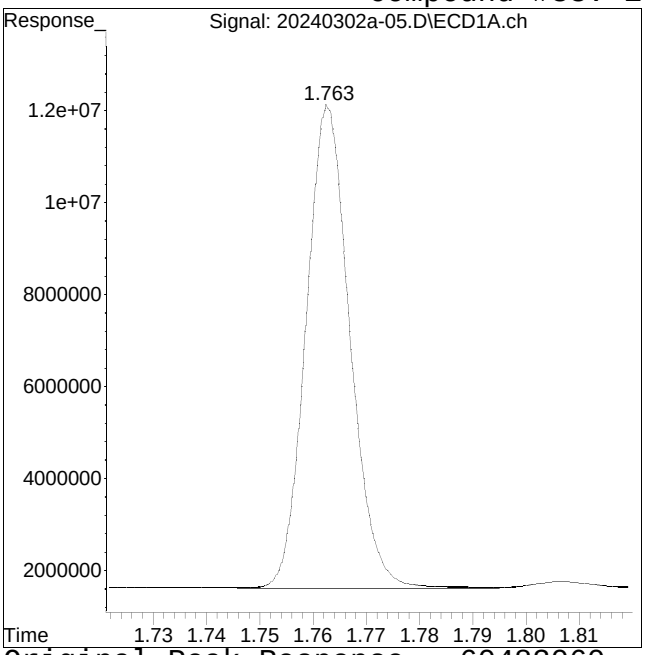
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

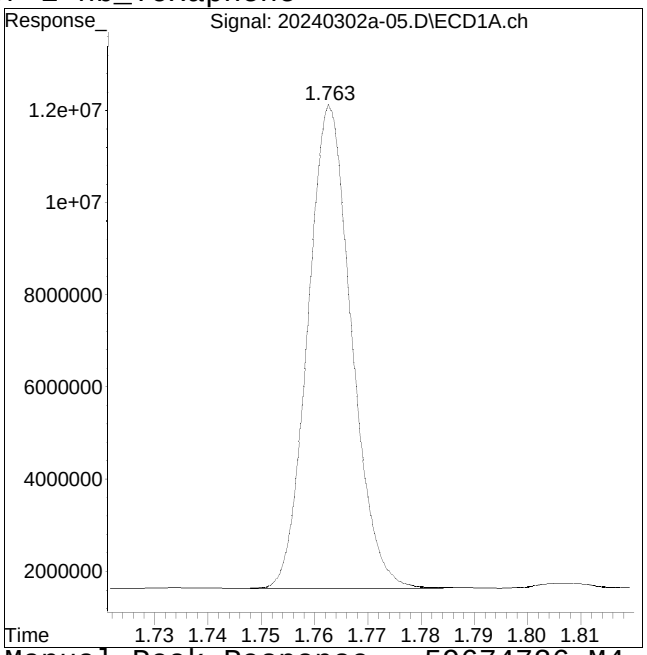


Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240302QMethod : pest20_2023_12_15_ugL_IC
Data File : 20240302a-05.D Operator : pest20:peg
Date Inj'd : 3/2/2024 7:20 am Instrument : PEST 20
Sample : wg1891472-3,42,,tox11438 Quant Date : 3/2/2024 8:12 am

Compound #33: 1-br-2-nb_Toxaphene



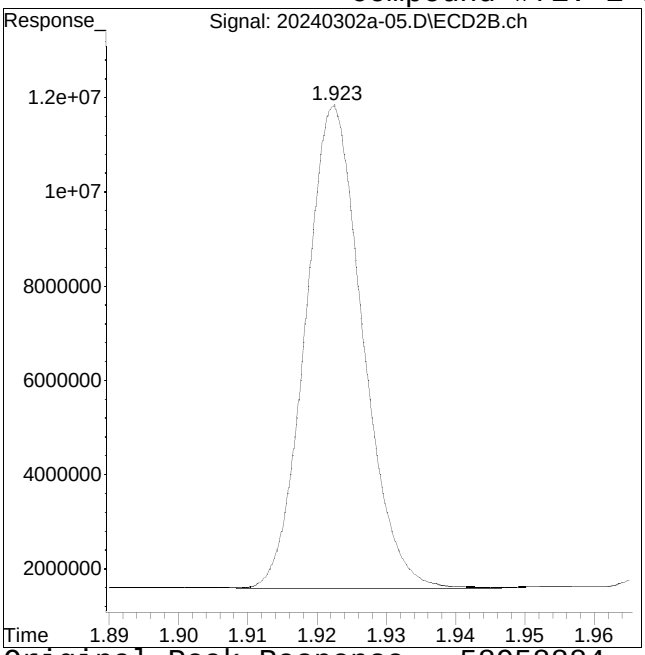


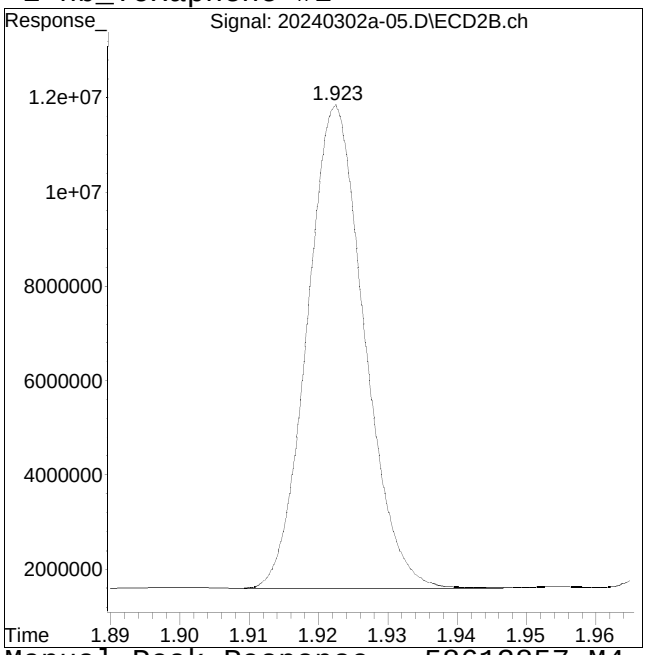
Original Peak Response = 60483060 Manual Peak Response = 59674726 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240302QMethod : pest20_2023_12_15_ugL_IC
Data File : 20240302a-05.D Operator : pest20:peg
Date Inj'd : 3/2/2024 7:20 am Instrument : PEST 20
Sample : wg1891472-3,42,,tox11438 Quant Date : 3/2/2024 8:12 am

Compound #71: 1-br-2-nb_Toxaphene #2





Original Peak Response = 58958884 Manual Peak Response = 58613857 M4
M4 = Poor automated baseline construction.

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest15\2024\240302A\
Data File : 15240302a-03.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 Mar 2024 3:07 pm
Operator : Pest15:jag
Sample : wg1891515-1,42,,pest11430 (Sig #1); pest11430 (Sig #2)
Misc : wg1891515,,ical20776
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Mar 02 15:18:45 2024
Quant Method : I:\PEST\Pest15\2024\240302A\P15_pest_2024_01_08_ugL_ICAL2077
... 6.m
Quant Title : pest
QLast Update : Sat Mar 02 15:18:52 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
1	i	1-br-2-nb_Pesticides	^	1.000	1.000	0.0	106	0.00
2	s	2,4,5,6-Tetrachloro-m-xylen		1.059	1.115	-5.3	115	0.00
3		Hexachlorobenzene	*	50.000	56.284	-12.6	110	0.00
4		alpha-BHC		1.372	1.524	-11.1	114	0.00
5		gamma-BHC (lindane)		1.300	1.371	-5.5	111	0.00
6		beta-BHC	*	50.000	55.927	-11.9	112	0.00
7		delta-BHC		1.290	1.346	-4.3	109	0.00
8		Heptachlor		1.288	1.398	-8.5	117	0.00
9		Aldrin		1.180	1.304	-10.5	115	0.00
10		Alachlor	*	50.000	60.569	-21.1#	109	0.00
11		Chlorpyrifos	*	50.000	65.586	-31.2#	119	0.00
12		Heptachlor Epoxide		1.170	1.228	-5.0	115	0.00
13		gamma-Chlordane (trans)		1.067	1.279	-19.9	132	0.00
14		alpha-Chlordane (cis)		1.220	1.262	-3.4	115	0.00
15		4,4'-DDE		1.136	1.251	-10.1	114	0.00
16		Endosulfan I		1.101	1.170	-6.3	115	0.00
17		Dieldrin		1.136	1.345	-18.4	126	0.00
18		Endrin		1.167	1.296	-11.1	118	0.00
19		4,4'-DDD		1.008	1.116	-10.7	124	0.00
20		Endosulfan II		1.031	1.152	-11.7	120	0.00
21		4,4'-DDT	*	50.000	58.079	-16.2	117	0.00
22		Endrin Aldehyde	*	50.000	54.674	-9.3	108	0.00
23		Methoxychlor		0.603	0.677	-12.3	123	0.00
24		Mirex		0.959	1.004	-4.7	119	0.00
25		Endosulfan Sulfate		0.991	1.082	-9.2	120	0.00
26		Endrin Ketone		1.132	1.296	-14.5	123	0.00
27	s	Decachlorobiphenyl		1.030	1.036	-0.6	112	0.00

Signal #2

Data Path : I:\PEST\Pest15\2024\240302A\
Data File : 15240302a-03.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 Mar 2024 3:07 pm
Operator : Pest15:jag
Sample : wg1891515-1,42,,pest11430 (Sig #1); pest11430 (Sig #2)
Misc : wg1891515,,ical20776
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Mar 02 15:18:45 2024
Quant Method : I:\PEST\Pest15\2024\240302A\P15_pest_2024_01_08_ugL_ICAL2077
... 6.m
Quant Title : pest
QLast Update : Sat Mar 02 15:18:52 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
1	i	1-br-2-nb_Pesticides	^	1.000	1.000	0.0	130	0.00
2	s	2,4,5,6-Tetrachloro-m-xyl		1.101	1.087	1.3	139	0.00
3		Hexachlorobenzene	*	50.000	53.297	-6.6	133	0.00
4		alpha-BHC		1.361	1.426	-4.8	138	0.00
5		gamma-BHC (lindane)		1.297	1.283	1.1	137	0.00
6		beta-BHC	*	50.000	53.892	-7.8	137	0.00
7		delta-BHC	*	50.000	50.561	-1.1	133	0.00
8		Heptachlor		1.233	1.247	-1.1	143	0.00
9		Aldrin		1.157	1.185	-2.4	142	0.00
10		Alachlor	*	50.000	51.097	-2.2	118	0.00
11		Chlorpyrifos	*	50.000	63.256	-26.5#	146	0.00
12		Heptachlor Epoxide	*	50.000	55.832	-11.7	140	0.00
13		gamma-Chlordane (trans)		1.034	1.144	-10.6	162#	0.00
14		alpha-Chlordane (cis)	*	50.000	55.710	-11.4	142	0.00
15		4,4'-DDE		1.115	1.135	-1.8	140	0.00
16		Endosulfan I	*	50.000	55.940	-11.9	140	0.00
17		Dieldrin		1.067	1.172	-9.8	154#	0.00
18		Endrin	*	50.000	58.234	-16.5	145	0.00
19		4,4'-DDD	*	50.000	59.024	-18.0	152	0.00
20		Endosulfan II	*	50.000	59.887	-19.8	146	0.00
21		4,4'-DDT	*	50.000	58.051	-16.1	147	0.00
22		Endrin Aldehyde	*	50.000	51.627	-3.3	131	0.00
23		Methoxychlor	*	50.000	63.257	-26.5#	151	0.00
24		Mirex	*	50.000	59.997	-20.0	145	0.00
25		Endosulfan Sulfate	*	50.000	58.954	-17.9	147	0.00
26		Endrin Ketone		1.028	1.093	-6.3	151#	0.00
27	s	Decachlorobiphenyl	*	50.000	62.163	-24.3#	150	0.00

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest15\2024\240302A\
Data File : 15240302a-03.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 Mar 2024 3:07 pm
Operator : Pest15:jag
Sample : wg1891515-1,42,,pest11430 (Sig #1); pest11430 (Sig #2)
Misc : wg1891515,,ical20776
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Mar 02 15:18:45 2024
Quant Method : I:\PEST\Pest15\2024\240302A\P15_pest_2024_01_08_ugL_ICAL2077
... 6.m
Quant Title : pest
QLast Update : Sat Mar 02 15:18:52 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
28	i	1-br-2-nb_Chlordane	^	1.000	1.000	0.0	0	-1.20#
29	l1	chlordane-1		*1000.000	0.000	100.0#	0	-2.44#
30	l1	chlordane-3		*1000.000	0.000	100.0#	0	-2.79#
31	l1	chlordane-4		*1000.000	0.000	100.0#	0	-3.34#
32	l1	chlordane-5		*1000.000	0.000	100.0#	0	-3.46#
33	i	1-br-2-nb_Toxaphene	^	1.000	1.000	0.0	0	-1.20#
34	l2	toxaphene-1		*2000.000	0.000	100.0#	0	-4.35#
35	l2	toxaphene-2		*2000.000	0.000	100.0#	0	-4.48#
36	l2	toxaphene-4		*2000.000	0.000	100.0#	0	-4.91#
37	l2	toxaphene-5		*2000.000	0.000	100.0#	0	-5.10#

Signal #2

28	i	1-br-2-nb_Chlordane	^	1.000	1.000	0.0	0	-1.28#
29	l1	chlordane-1		*1000.000	0.000	100.0#	0	-2.88#
30	l1	chlordane-3		*1000.000	0.000	100.0#	0	-3.34#
31	l1	chlordane-4		*1000.000	0.000	100.0#	0	-4.02#
32	l1	chlordane-5		*1000.000	0.000	100.0#	0	-4.19#
33	i	1-br-2-nb_Toxaphene	^	1.000	1.000	0.0	0	-1.28#
34	l2	toxaphene-1		*2000.000	0.000	100.0#	0	-5.02#
35	l2	toxaphene-2		*2000.000	0.000	100.0#	0	-5.05#
36	l2	toxaphene-4		*2000.000	0.000	100.0#	0	-5.37#
37	l2	toxaphene-5		*2000.000	0.000	100.0#	0	-5.78#

* Evaluation of CC level amount vs concentration.

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest15\2024\240302A\
Data File : 15240302a-03.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 2 Mar 2024   3:07 pm
Operator : Pest15:jag
Sample   : wg1891515-1,42,,pest11430 (Sig #1); pest11430 (Sig #2)
Misc   : wg1891515,,ical20776
ALS Vial : 3   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Mar 02 15:18:45 2024
Quant Method : I:\PEST\Pest15\2024\240302A\P15_pest_2024_01_08_ugL_ICAL2077
...   6.m
Quant Title : pest
QLast Update : Sat Mar 02 15:18:52 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area% Dev(Min)

(#) = Out of Range SPCC's out = 0 CCC's out = 0
(^) = ISTD area calculated using ICAL average

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest15\2024\240302A\
Data File : 15240302a-03.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 Mar 2024 3:07 pm
Operator : Pest15:jag
Sample : wg1891515-1,42,,pest11430 (Sig #1); pest11430 (Sig #2)
Misc : wg1891515,,ical20776
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Mar 02 15:18:45 2024
Quant Method : I:\PEST\Pest15\2024\240302A\P15_pest_2024_01_08_ugL_ICAL2077
... 6.m
Quant Title : pest
QLast Update : Sat Mar 02 15:18:52 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	1.204	1.286	112.6E6	89452580	25.000M4	25.000M4
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.571	1.782	251.1E6	194.4E6	52.626	49.338
	Spiked Amount 50.000	Range 30 - 150		Recovery =		105.25%	98.68%
27) s	Decachlorobi	6.242	6.883	233.3E6	162.5E6	50.278	62.163
	Spiked Amount 50.000	Range 30 - 150		Recovery =		100.56%	124.33%
	Target Compounds						
3)	Hexachlorobe	1.789	2.104	253.8E6	193.6E6	56.284	53.297
4)	alpha-BHC	1.890	2.201	343.4E6	255.0E6	55.538	52.361
5)	gamma-BHC (l	2.093	2.485	308.9E6	229.5E6	52.745	49.464
6)	beta-BHC	2.151	2.551	139.5E6	104.3E6	55.927	53.892
7)	delta-BHC	2.278	2.815	303.1E6	224.9E6	52.170	50.561
8)	Heptachlor	2.438	2.878	314.9E6	223.1E6	54.257	50.570
9)	Aldrin	2.677	3.192	293.8E6	211.9E6	55.291	51.175
10)	Alachlor	2.801	3.081	43710945	39361841	60.569	51.097
11)	Chlorpyrifos	2.892	3.430	143.2E6	103.6E6	65.586	63.256
12)	Heptachlor E	3.217	3.801	276.7E6	197.4E6	52.507	55.832
13)	gamma-Chlord	3.340	4.019	288.2E6	204.8E6	59.948	55.339
14)	alpha-Chlord	3.472	4.191	284.4E6	201.1E6	51.744	55.710
15)	4,4'-DDE	3.571	4.397	281.9E6	203.1E6	55.097	50.931
16)	Endosulfan I	3.606	4.253	263.7E6	185.6E6	53.137	55.940
17)	Dieldrin	3.863	4.553	302.9E6	209.6E6	59.177	54.887
18)	Endrin	4.116	4.857	291.9E6	199.1E6	55.520	58.234
19)	4,4'-DDD	4.234	4.985	251.4E6	171.7E6	55.375	59.024M4
20)	Endosulfan I	4.365	5.060	259.5E6	176.9E6	55.861	59.887
21)	4,4'-DDT	4.535	5.268	262.0E6	182.7E6	58.079M4	58.051

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest15\2024\240302A\
Data File : 15240302a-03.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 Mar 2024 3:07 pm
Operator : Pest15:jag
Sample : wg1891515-1,42,,pest11430 (Sig #1); pest11430 (Sig #2)
Misc : wg1891515,,ical20776
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Mar 02 15:18:45 2024
Quant Method : I:\PEST\Pest15\2024\240302A\P15_pest_2024_01_08_ugL_ICAL2077
... 6.m
Quant Title : pest
QLast Update : Sat Mar 02 15:18:52 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
22)	Endrin Aldeh	4.793	5.362	192.4E6	131.8E6	54.674	51.627M4
23)	Methoxychlor	5.039	5.844	152.5E6	98220474	56.087	63.257
24)	Mirex	5.087	5.975	226.2E6	144.0E6	52.384	59.997
25)	Endosulfan S	5.194	5.595	243.8E6	162.8E6	54.613	58.954
26)	Endrin Keton	5.425	6.011	291.9E6	195.5E6	57.245	53.142
29) l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

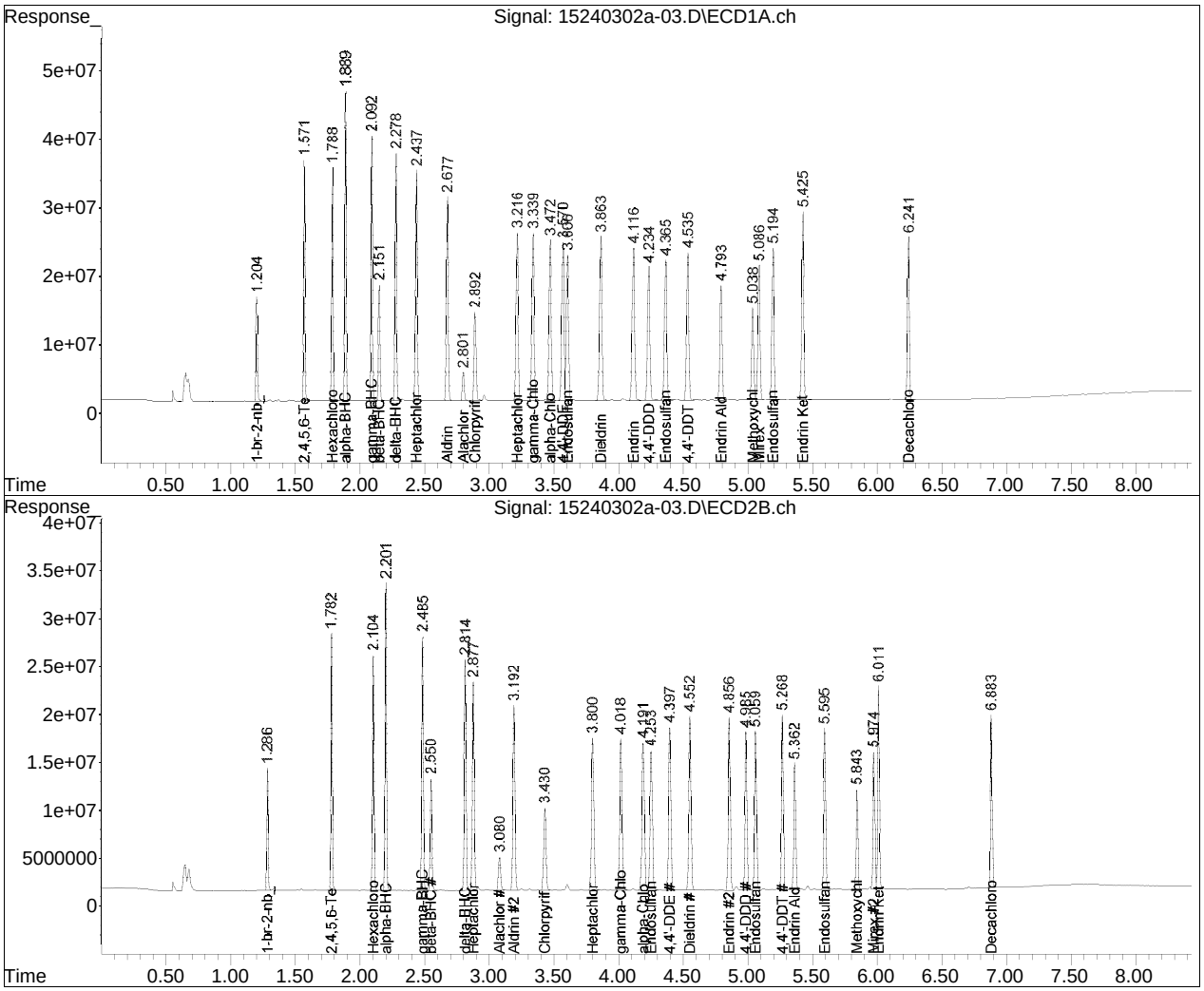
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest15\2024\240302A\
Data File : 15240302a-03.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 Mar 2024 3:07 pm
Operator : Pest15:jag
Sample : wg1891515-1,42,,pest11430 (Sig #1); pest11430 (Sig #2)
Misc : wg1891515,,ical20776
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Mar 02 15:18:45 2024
Quant Method : I:\PEST\Pest15\2024\240302A\P15_pest_2024_01_08_ugL_ICAL2077
... 6.m
Quant Title : pest
QLast Update : Sat Mar 02 15:18:52 2024
Response via : Initial Calibration
Integrator: ChemStation

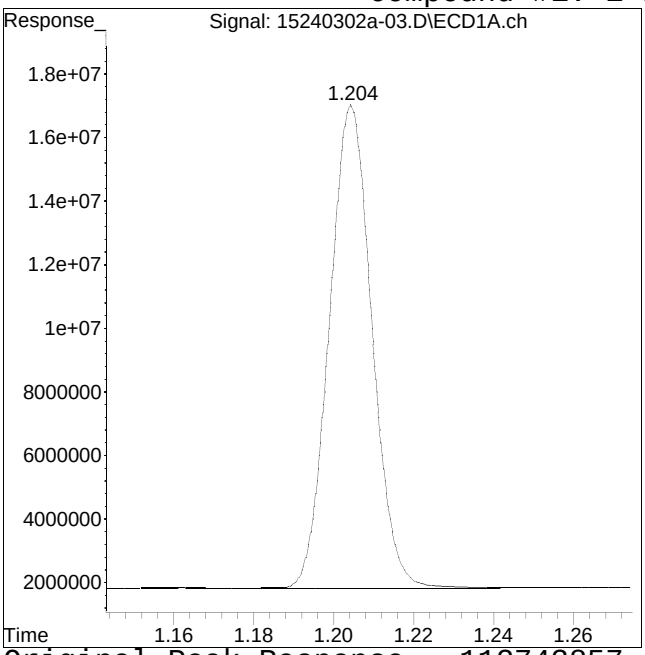
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

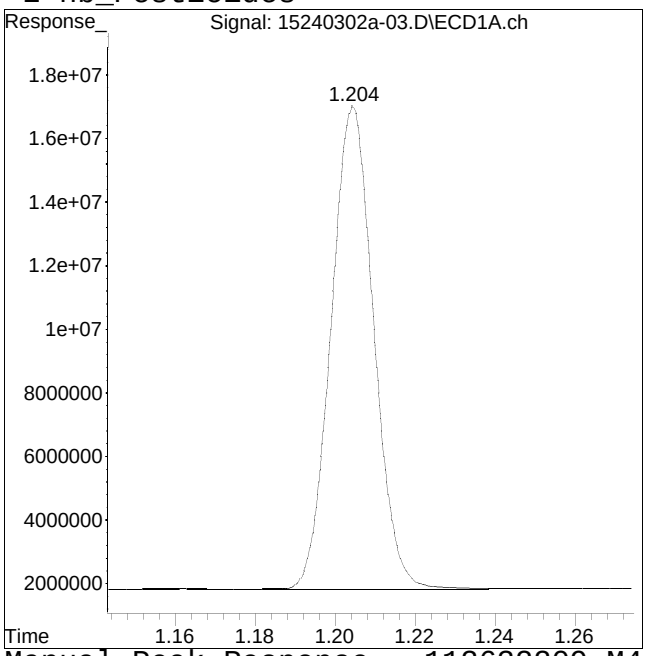


Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240302QMethod : P15_pest_2024_01_08_ugL_
Data File : 15240302a-03.D Operator : Pest15:jag
Date Inj'd : 3/2/2024 3:07 pm Instrument : Pest 15
Sample : wg1891515-1,42,,pest11430 Quant Date : 3/2/2024 3:19 pm

Compound #1: 1-br-2-nb_Pesticides



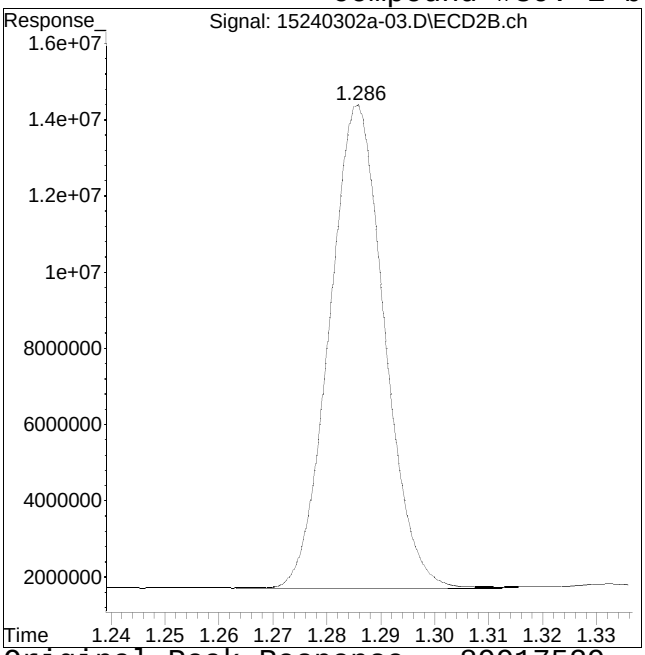


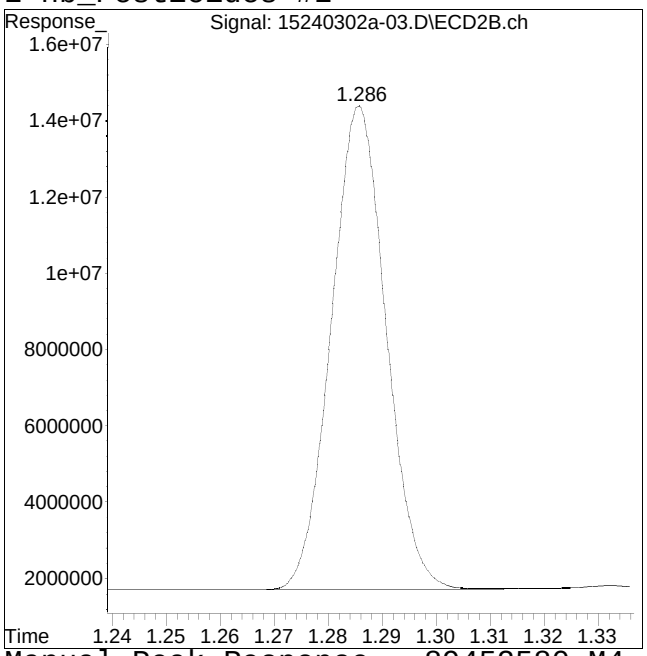
Original Peak Response = 112743857 Manual Peak Response = 112632209 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240302QMethod : P15_pest_2024_01_08_ugL_
Data File : 15240302a-03.D Operator : Pest15:jag
Date Inj'd : 3/2/2024 3:07 pm Instrument : Pest 15
Sample : wg1891515-1,42,,pest11430 Quant Date : 3/2/2024 3:19 pm

Compound #39: 1-br-2-nb_Pesticides #2



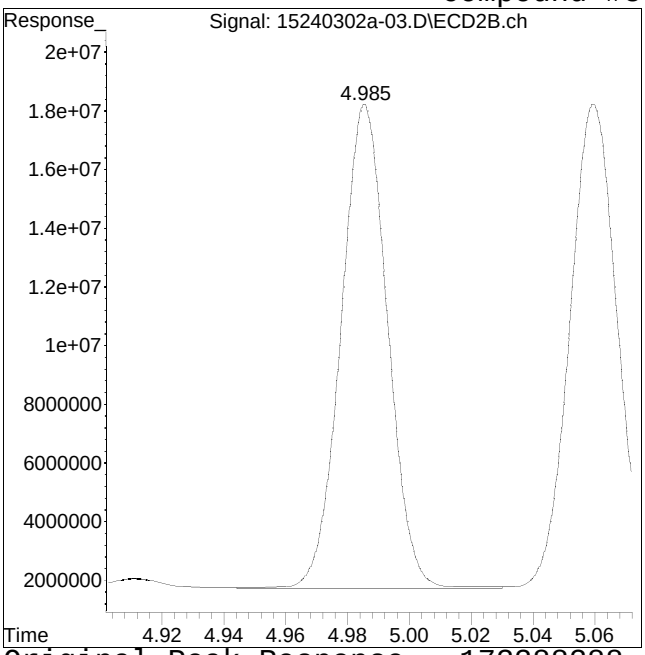


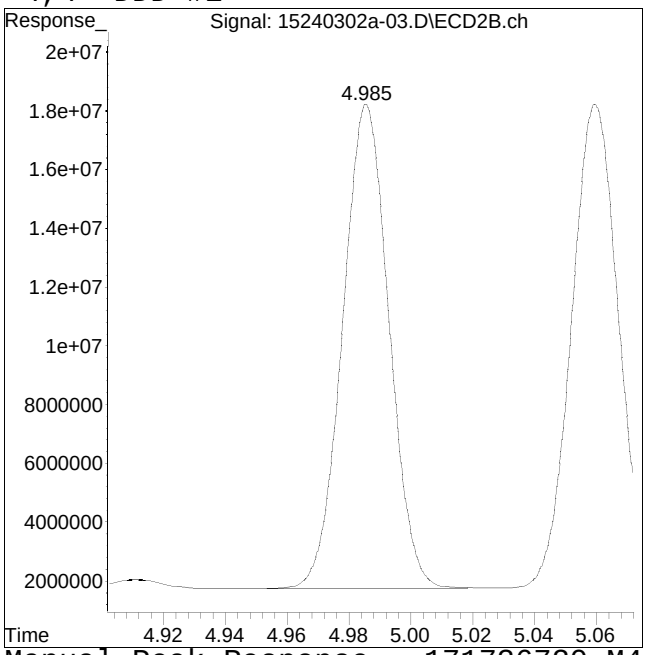
Original Peak Response = 89917529 Manual Peak Response = 89452580 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240302QMethod : P15_pest_2024_01_08_ugL_
Data File : 15240302a-03.D Operator : Pest15:jag
Date Inj'd : 3/2/2024 3:07 pm Instrument : Pest 15
Sample : wg1891515-1,42,,pest11430 Quant Date : 3/2/2024 3:19 pm

Compound #57: 4,4'-DDD #2



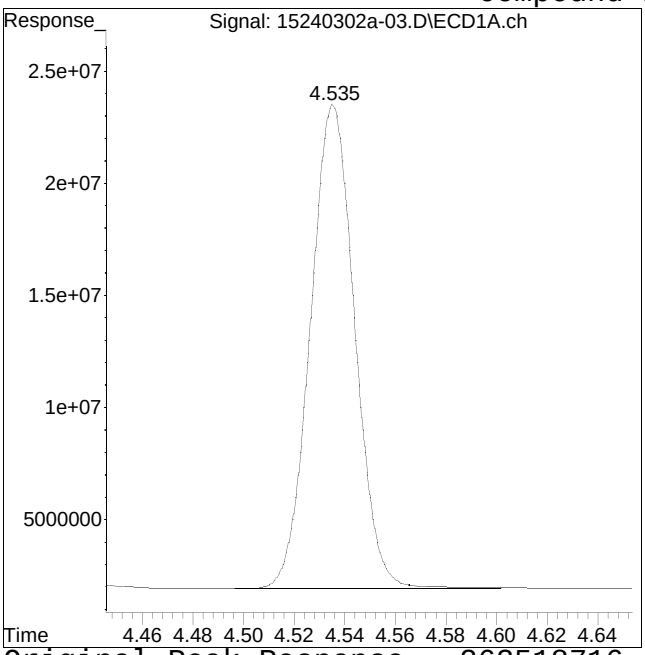


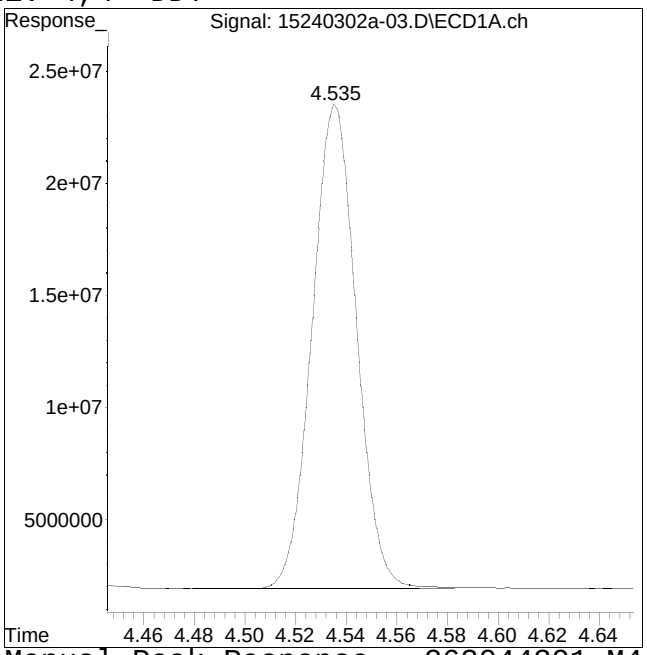
Original Peak Response = 173388388 Manual Peak Response = 171736720 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240302QMethod : P15_pest_2024_01_08_ugL_
Data File : 15240302a-03.D Operator : Pest15:jag
Date Inj'd : 3/2/2024 3:07 pm Instrument : Pest 15
Sample : wg1891515-1,42,,pest11430 Quant Date : 3/2/2024 3:19 pm

Compound #21: 4,4'-DDT



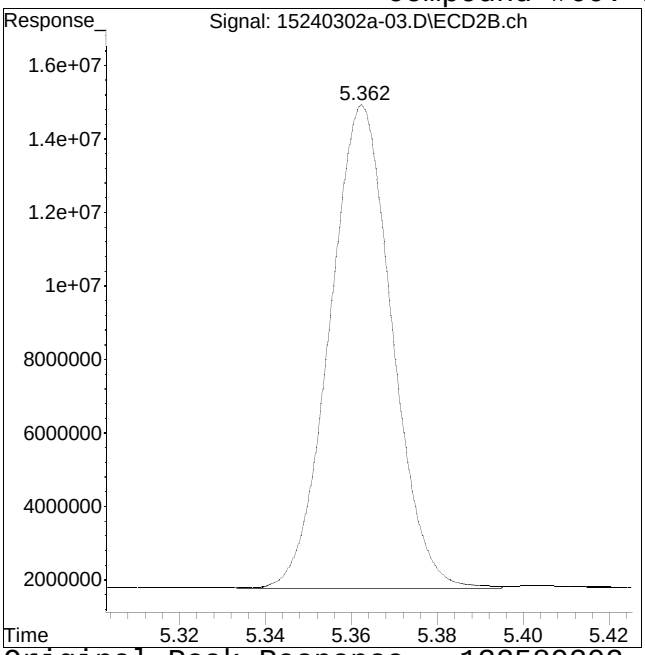


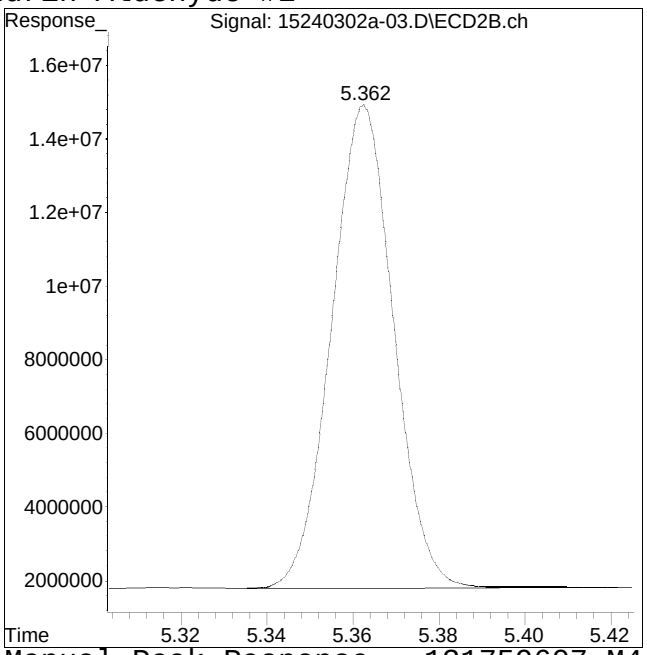
Original Peak Response = 263518716 Manual Peak Response = 262044391 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240302QMethod : P15_pest_2024_01_08_ugL_
Data File : 15240302a-03.D Operator : Pest15:jag
Date Inj'd : 3/2/2024 3:07 pm Instrument : Pest 15
Sample : wg1891515-1,42,,pest11430 Quant Date : 3/2/2024 3:19 pm

Compound #60: Endrin Aldehyde #2





Original Peak Response = 132589302 Manual Peak Response = 131759607 M4
M4 = Poor automated baseline construction.

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest15\2024\240302A\
Data File : 15240302a-05.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 Mar 2024 3:29 pm
Operator : Pest15:jag
Sample : wg1891515-3,42,,tox11438 (Sig #1); tox11438 (Sig #2)
Misc : wg1891515,,ical20776
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Mar 02 17:23:10 2024
Quant Method : I:\PEST\Pest15\2024\240302A\P15_pest_2024_01_08_ugL_ICAL2077
... 6.m
Quant Title : pest
QLast Update : Sat Mar 02 17:23:08 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
33	i	1-br-2-nb_Toxaphene	^	1.000	1.000	0.0	91	0.00
34	l2	toxaphene-1		*2000.000	2371.722	-18.6	112	0.00
35	l2	toxaphene-2		*2000.000	2348.132	-17.4	110	0.00
36	l2	toxaphene-4		*2000.000	2592.783	-29.6#	122	0.00
37	l2	toxaphene-5		*2000.000	2212.375	-10.6	102	0.00

Signal #2

33	i	1-br-2-nb_Toxaphene	^	1.000	1.000	0.0	117	0.00
34	l2	toxaphene-1		*2000.000	2448.029	-22.4#	149	0.00
35	l2	toxaphene-2		*2000.000	2475.553	-23.8#	150	0.00
36	l2	toxaphene-4		*2000.000	2250.189	-12.5	137	0.00
37	l2	toxaphene-5		*2000.000	2368.202	-18.4	145	0.00

Evaluate Continuing Calibration Report - Not Founds

1	i	1-br-2-nb_Pesticides	^	1.000	1.000	0.0	0	-1.20#
2	s	2,4,5,6-Tetrachloro-m-xylen		1.059	0.000	100.0#	0#	-1.57#
3		Hexachlorobenzene	*	50.000	0.000	100.0#	0	-1.79#
4		alpha-BHC		1.372	0.000	100.0#	0#	-1.89#
5		gamma-BHC (lindane)		1.300	0.000	100.0#	0#	-2.09#
6		beta-BHC	*	50.000	0.000	100.0#	0	-2.15#
7		delta-BHC		1.290	0.000	100.0#	0#	-2.28#
8		Heptachlor		1.288	0.000	100.0#	0#	-2.44#
9		Aldrin		1.180	0.000	100.0#	0#	-2.68#
10		Alachlor	*	50.000	0.000	100.0#	0	-2.80#
11		Chlorpyrifos	*	50.000	0.000	100.0#	0	-2.89#
12		Heptachlor Epoxide		1.170	0.000	100.0#	0#	-3.22#

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest15\2024\240302A\
Data File : 15240302a-05.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 Mar 2024 3:29 pm
Operator : Pest15:jag
Sample : wg1891515-3,42,,tox11438 (Sig #1); tox11438 (Sig #2)
Misc : wg1891515,,ical20776
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Mar 02 17:23:10 2024
Quant Method : I:\PEST\Pest15\2024\240302A\P15_pest_2024_01_08_ugL_ICAL2077
... 6.m
Quant Title : pest
QLast Update : Sat Mar 02 17:23:08 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
13		gamma-Chlordane (trans)		1.067	0.000	100.0#	0#	-3.34#
14		alpha-Chlordane (cis)		1.220	0.000	100.0#	0#	-3.47#
15		4,4'-DDE		1.136	0.000	100.0#	0#	-3.57#
16		Endosulfan I		1.101	0.000	100.0#	0#	-3.61#
17		Dieldrin		1.136	0.000	100.0#	0#	-3.86#
18		Endrin		1.167	0.000	100.0#	0#	-4.12#
19		4,4'-DDD		1.008	0.000	100.0#	0#	-4.23#
20		Endosulfan II		1.031	0.000	100.0#	0#	-4.37#
21		4,4'-DDT	*	50.000	0.000	100.0#	0	-4.54#
22		Endrin Aldehyde	*	50.000	0.000	100.0#	0	-4.79#
23		Methoxychlor		0.603	0.000	100.0#	0#	-5.04#
24		Mirex		0.959	0.000	100.0#	0#	-5.09#
25		Endosulfan Sulfate		0.991	0.000	100.0#	0#	-5.19#
26		Endrin Ketone		1.132	0.000	100.0#	0#	-5.42#
27	s	Decachlorobiphenyl		1.030	0.000	100.0#	0#	-6.24#
28	i	1-br-2-nb_Chlordane	^	1.000	1.000	0.0	0	-1.20#
29	l1	chlordane-1	*	1000.000	0.000	100.0#	0	-2.44#
30	l1	chlordane-3	*	1000.000	0.000	100.0#	0	-2.79#
31	l1	chlordane-4	*	1000.000	0.000	100.0#	0	-3.34#
32	l1	chlordane-5	*	1000.000	0.000	100.0#	0	-3.46#

Signal #2

1	i	1-br-2-nb_Pesticides	^	1.000	1.000	0.0	0	-1.29#
2	s	2,4,5,6-Tetrachloro-m-xyl		1.101	0.000	100.0#	0#	-1.78#
3		Hexachlorobenzene	*	50.000	0.000	100.0#	0	-2.10#
4		alpha-BHC		1.361	0.000	100.0#	0#	-2.20#
5		gamma-BHC (lindane)		1.297	0.000	100.0#	0#	-2.48#

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest15\2024\240302A\
Data File : 15240302a-05.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 Mar 2024 3:29 pm
Operator : Pest15:jag
Sample : wg1891515-3,42,,tox11438 (Sig #1); tox11438 (Sig #2)
Misc : wg1891515,,ical20776
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Mar 02 17:23:10 2024
Quant Method : I:\PEST\Pest15\2024\240302A\P15_pest_2024_01_08_ugL_ICAL2077
... 6.m
Quant Title : pest
QLast Update : Sat Mar 02 17:23:08 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
6		beta-BHC	*	50.000	0.000	100.0#	0	-2.55#
7		delta-BHC	*	50.000	0.000	100.0#	0	-2.81#
8		Heptachlor		1.233	0.000	100.0#	0#	-2.88#
9		Aldrin		1.157	0.000	100.0#	0#	-3.19#
10		Alachlor	*	50.000	0.000	100.0#	0	-3.08#
11		Chlorpyrifos	*	50.000	0.000	100.0#	0	-3.43#
12		Heptachlor Epoxide	*	50.000	0.000	100.0#	0	-3.80#
13		gamma-Chlordane (trans)		1.034	0.000	100.0#	0#	-4.02#
14		alpha-Chlordane (cis)	*	50.000	0.000	100.0#	0	-4.19#
15		4,4'-DDE		1.115	0.000	100.0#	0#	-4.40#
16		Endosulfan I	*	50.000	0.000	100.0#	0	-4.25#
17		Dieldrin		1.067	0.000	100.0#	0#	-4.55#
18		Endrin	*	50.000	0.000	100.0#	0	-4.86#
19		4,4'-DDD	*	50.000	0.000	100.0#	0	-4.99#
20		Endosulfan II	*	50.000	0.000	100.0#	0	-5.06#
21		4,4'-DDT	*	50.000	0.000	100.0#	0	-5.27#
22		Endrin Aldehyde	*	50.000	0.000	100.0#	0	-5.36#
23		Methoxychlor	*	50.000	0.000	100.0#	0	-5.84#
24		Mirex	*	50.000	0.000	100.0#	0	-5.97#
25		Endosulfan Sulfate	*	50.000	0.000	100.0#	0	-5.60#
26		Endrin Ketone		1.028	0.000	100.0#	0#	-6.01#
27	s	Decachlorobiphenyl	*	50.000	0.000	100.0#	0	-6.88#
28	i	1-br-2-nb_Chlordane	^	1.000	1.000	0.0	0	-1.28#
29	l1	chlordane-1	*	1000.000	0.000	100.0#	0	-2.88#
30	l1	chlordane-3	*	1000.000	0.000	100.0#	0	-3.34#
31	l1	chlordane-4	*	1000.000	0.000	100.0#	0	-4.02#
32	l1	chlordane-5	*	1000.000	0.000	100.0#	0	-4.19#

* Evaluation of CC level amount vs concentration.

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest15\2024\240302A\
Data File : 15240302a-05.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 2 Mar 2024   3:29 pm
Operator : Pest15:jag
Sample   : wg1891515-3,42,,tox11438 (Sig #1); tox11438 (Sig #2)
Misc   : wg1891515,,ical20776
ALS Vial : 5   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Mar 02 17:23:10 2024
Quant Method : I:\PEST\Pest15\2024\240302A\P15_pest_2024_01_08_ugL_ICAL2077
...   6.m
Quant Title : pest
QLast Update : Sat Mar 02 17:23:08 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area% Dev(Min)

(#) = Out of Range SPCC's out = 0 CCC's out = 0
(^) = ISTD area calculated using ICAL average

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest15\2024\240302A\
Data File : 15240302a-05.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 Mar 2024 3:29 pm
Operator : Pest15:jag
Sample : wg1891515-3,42,,tox11438 (Sig #1); tox11438 (Sig #2)
Misc : wg1891515,,ical20776
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Mar 02 17:23:10 2024
Quant Method : I:\PEST\Pest15\2024\240302A\P15_pest_2024_01_08_ugL_ICAL2077
... 6.m
Quant Title : pest
QLast Update : Sat Mar 02 17:23:08 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	1.202	1.285	101.6E6	83383560	25.000M4	25.000
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150	Recovery	=	0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150	Recovery	=	0.00%#	0.00%#
	Target Compounds						
3)	Hexachlorobe	0.000	0.000	0	0	N.D. d	N.D. d
4)	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6)	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8)	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9)	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10)	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11)	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12)	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13)	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14)	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17)	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18)	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22)	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest15\2024\240302A\
Data File : 15240302a-05.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 Mar 2024 3:29 pm
Operator : Pest15:jag
Sample : wg1891515-3,42,,tox11438 (Sig #1); tox11438 (Sig #2)
Misc : wg1891515,,ical20776
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Mar 02 17:23:10 2024
Quant Method : I:\PEST\Pest15\2024\240302A\P15_pest_2024_01_08_ugL_ICAL2077
... 6.m
Quant Title : pest
QLast Update : Sat Mar 02 17:23:08 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
23)	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
24)	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25)	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26)	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-1	4.353	5.018	431.6E6	168.8E6	2371.722	2448.029
35) l2	toxaphene-2	4.481	5.046	396.5E6	254.9E6	2348.132M3	2475.553
36) l2	toxaphene-4	4.907	5.370	386.5E6	277.3E6	2592.783	2250.189
37) l2	toxaphene-5	5.096	5.784	379.8E6	263.1E6	2212.375	2368.202
Sum	toxaphene-1			1594.4E6	964.1E6	9525.013	9541.973
Average	toxaphene-1					2381.253	2385.493

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			1594.4E6	964.1E6	9525.013	9541.973
Average	toxaphene-1					2381.253	2385.493

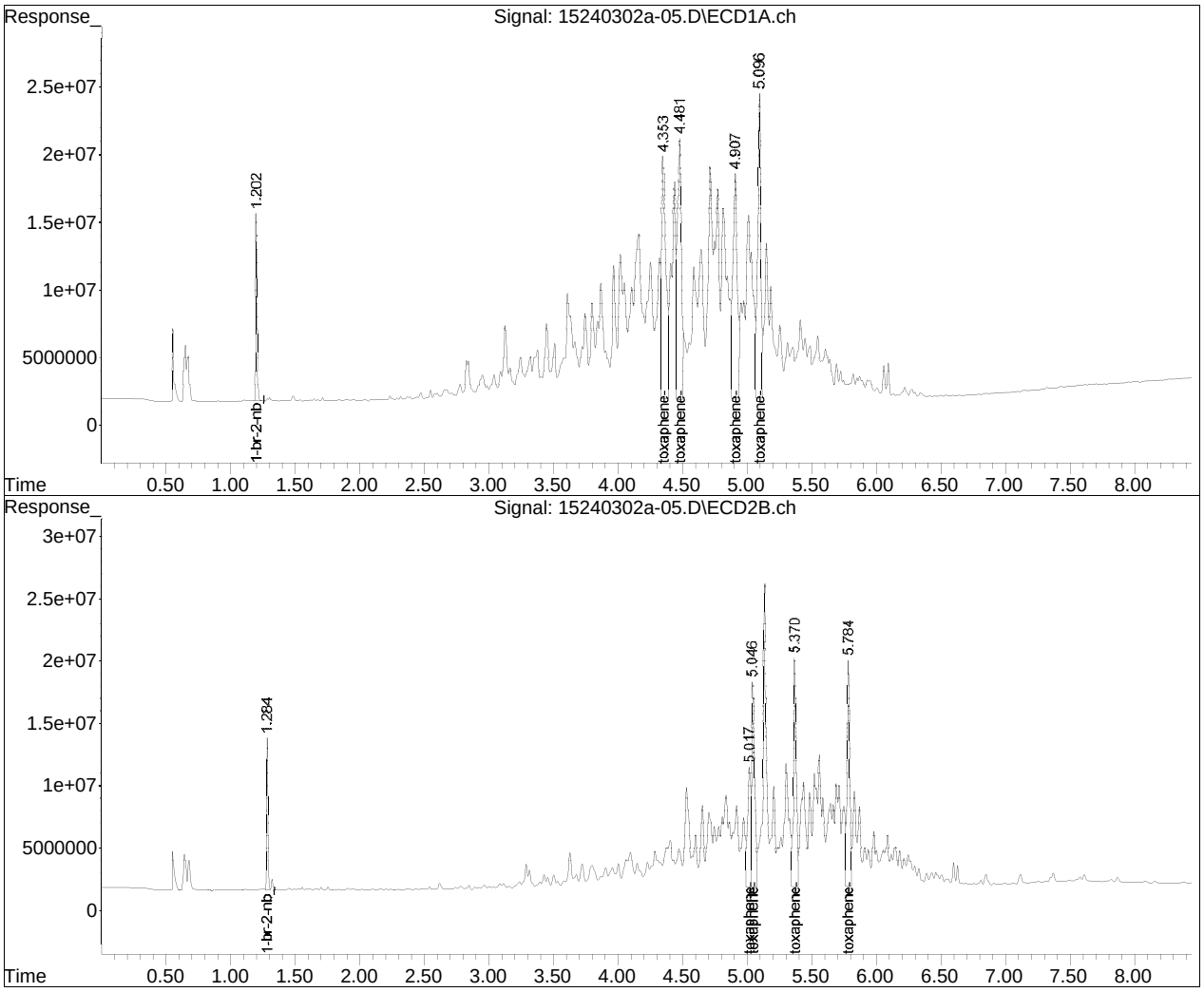
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest15\2024\240302A\
Data File : 15240302a-05.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 Mar 2024 3:29 pm
Operator : Pest15:jag
Sample : wg1891515-3,42,,tox11438 (Sig #1); tox11438 (Sig #2)
Misc : wg1891515,,ical20776
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Mar 02 17:23:10 2024
Quant Method : I:\PEST\Pest15\2024\240302A\P15_pest_2024_01_08_ugL_ICAL2077
... 6.m
Quant Title : pest
QLast Update : Sat Mar 02 17:23:08 2024
Response via : Initial Calibration
Integrator: ChemStation

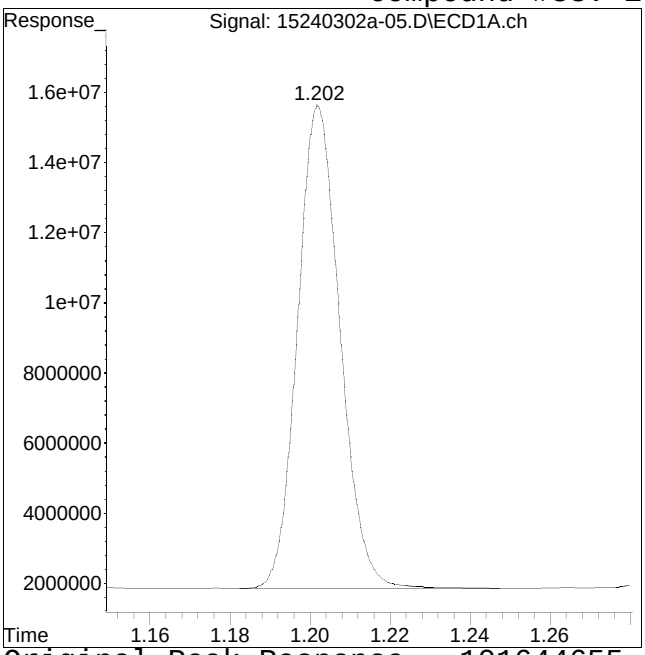
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

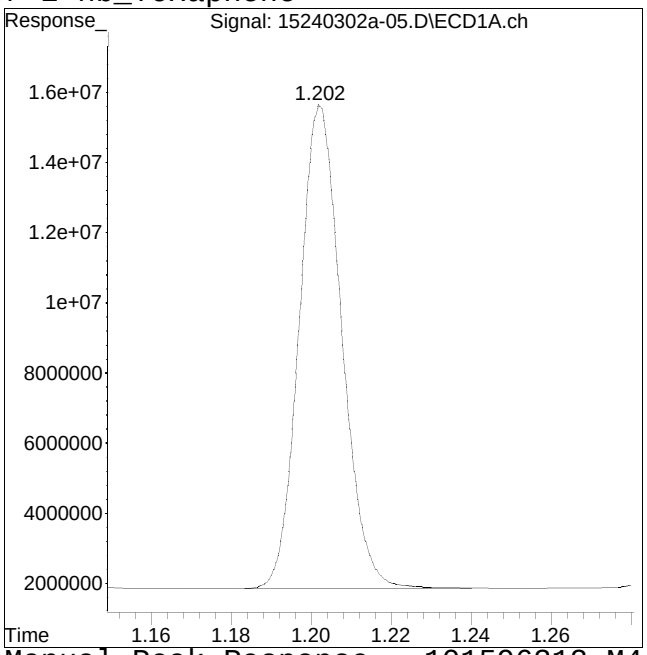


Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240302QMethod : P15_pest_2024_01_08_ugL_
Data File : 15240302a-05.D Operator : Pest15:jag
Date Inj'd : 3/2/2024 3:29 pm Instrument : Pest 15
Sample : wg1891515-3,42,,tox11438 Quant Date : 3/2/2024 5:23 pm

Compound #33: 1-br-2-nb_Toxaphene



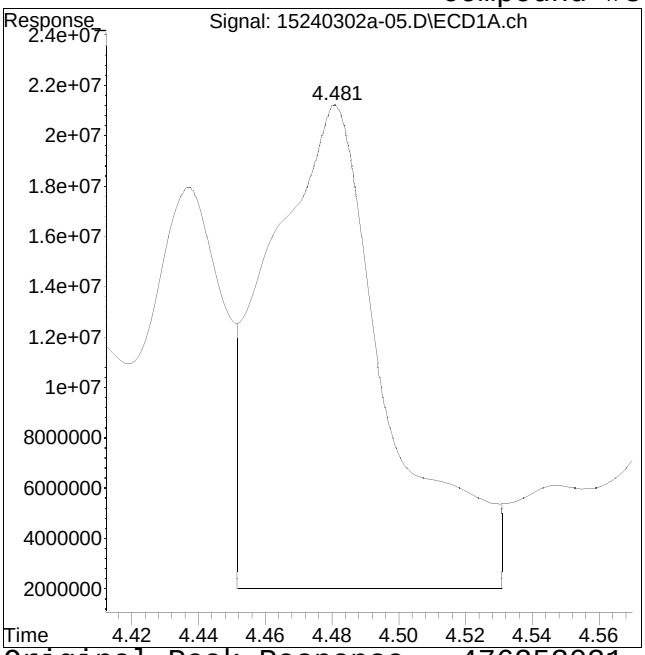


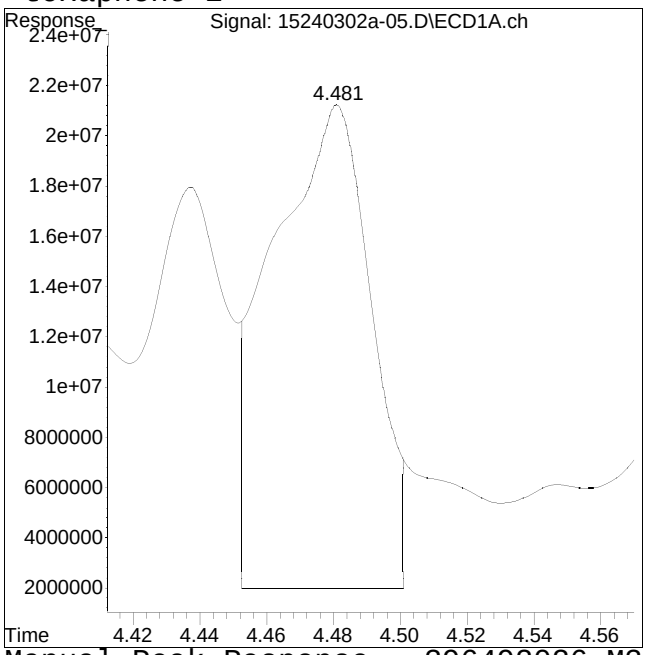
Original Peak Response = 101644655 Manual Peak Response = 101596312 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240302QMethod : P15_pest_2024_01_08_ugL_
Data File : 15240302a-05.D Operator : Pest15:jag
Date Inj'd : 3/2/2024 3:29 pm Instrument : Pest 15
Sample : wg1891515-3,42,,tox11438 Quant Date : 3/2/2024 5:23 pm

Compound #35: toxaphene-2





Original Peak Response = 476253031 Manual Peak Response = 396492026 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest15\2024\240302A\
Data File : 15240302a-06.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 Mar 2024 3:40 pm
Operator : Pest15:jag
Sample : wg1891515-2,42,,chlor11437 (Sig #1); chlor11437 (Sig #2)
Misc : wg1891515,,ical20776
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Mar 02 15:55:35 2024
Quant Method : I:\PEST\Pest15\2024\240302A\P15_pest_2024_01_08_ugL_ICAL2077
... 6.m
Quant Title : pest
QLast Update : Sat Mar 02 15:55:33 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
28	i	1-br-2-nb_Chlordane	^	1.000	1.000	0.0	93	0.00
29	l1	chlordane-1		*1000.000	1103.669	-10.4	99	0.00
30	l1	chlordane-3		*1000.000	1222.223	-22.2#	110	0.00
31	l1	chlordane-4		*1000.000	1327.909	-32.8#	120	0.00
32	l1	chlordane-5		*1000.000	1464.415	-46.4#	132	0.00

Signal #2

28	i	1-br-2-nb_Chlordane	^	1.000	1.000	0.0	118	0.00
29	l1	chlordane-1		*1000.000	893.012	10.7	103	0.00
30	l1	chlordane-3		*1000.000	1097.695	-9.8	125	0.00
31	l1	chlordane-4		*1000.000	1187.921	-18.8	136	0.00
32	l1	chlordane-5		*1000.000	1152.011	-15.2	133	0.00

Evaluate Continuing Calibration Report - Not Founds

1	i	1-br-2-nb_Pesticides	^	1.000	1.000	0.0	0	-1.20#
2	s	2,4,5,6-Tetrachloro-m-xylen		1.059	0.000	100.0#	0#	-1.57#
3		Hexachlorobenzene		* 50.000	0.000	100.0#	0	-1.79#
4		alpha-BHC		1.372	0.000	100.0#	0#	-1.89#
5		gamma-BHC (lindane)		1.300	0.000	100.0#	0#	-2.09#
6		beta-BHC		* 50.000	0.000	100.0#	0	-2.15#
7		delta-BHC		1.290	0.000	100.0#	0#	-2.28#
8		Heptachlor		1.288	0.000	100.0#	0#	-2.44#
9		Aldrin		1.180	0.000	100.0#	0#	-2.68#
10		Alachlor		* 50.000	0.000	100.0#	0	-2.80#
11		Chlorpyrifos		* 50.000	0.000	100.0#	0	-2.89#
12		Heptachlor Epoxide		1.170	0.000	100.0#	0#	-3.22#

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest15\2024\240302A\
Data File : 15240302a-06.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 Mar 2024 3:40 pm
Operator : Pest15:jag
Sample : wg1891515-2,42,,chlor11437 (Sig #1); chlor11437 (Sig #2)
Misc : wg1891515,,ical20776
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Mar 02 15:55:35 2024
Quant Method : I:\PEST\Pest15\2024\240302A\P15_pest_2024_01_08_ugL_ICAL2077
... 6.m
Quant Title : pest
QLast Update : Sat Mar 02 15:55:33 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
13		gamma-Chlordane (trans)		1.067	0.000	100.0#	0#	-3.34#
14		alpha-Chlordane (cis)		1.220	0.000	100.0#	0#	-3.47#
15		4,4'-DDE		1.136	0.000	100.0#	0#	-3.57#
16		Endosulfan I		1.101	0.000	100.0#	0#	-3.61#
17		Dieldrin		1.136	0.000	100.0#	0#	-3.86#
18		Endrin		1.167	0.000	100.0#	0#	-4.12#
19		4,4'-DDD		1.008	0.000	100.0#	0#	-4.23#
20		Endosulfan II		1.031	0.000	100.0#	0#	-4.37#
21		4,4'-DDT	*	50.000	0.000	100.0#	0	-4.54#
22		Endrin Aldehyde	*	50.000	0.000	100.0#	0	-4.79#
23		Methoxychlor		0.603	0.000	100.0#	0#	-5.04#
24		Mirex		0.959	0.000	100.0#	0#	-5.09#
25		Endosulfan Sulfate		0.991	0.000	100.0#	0#	-5.19#
26		Endrin Ketone		1.132	0.000	100.0#	0#	-5.42#
27	s	Decachlorobiphenyl		1.030	0.000	100.0#	0#	-6.24#
33	i	1-br-2-nb_Toxaphene	^	1.000	1.000	0.0	0	-1.20#
34	l2	toxaphene-1	*	2000.000	0.000	100.0#	0	-4.35#
35	l2	toxaphene-2	*	2000.000	0.000	100.0#	0	-4.48#
36	l2	toxaphene-4	*	2000.000	0.000	100.0#	0	-4.91#
37	l2	toxaphene-5	*	2000.000	0.000	100.0#	0	-5.10#

Signal #2

1	i	1-br-2-nb_Pesticides	^	1.000	1.000	0.0	0	-1.29#
2	s	2,4,5,6-Tetrachloro-m-xyl		1.101	0.000	100.0#	0#	-1.78#
3		Hexachlorobenzene	*	50.000	0.000	100.0#	0	-2.10#
4		alpha-BHC		1.361	0.000	100.0#	0#	-2.20#
5		gamma-BHC (lindane)		1.297	0.000	100.0#	0#	-2.48#

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest15\2024\240302A\
Data File : 15240302a-06.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 Mar 2024 3:40 pm
Operator : Pest15:jag
Sample : wg1891515-2,42,,chlor11437 (Sig #1); chlor11437 (Sig #2)
Misc : wg1891515,,ical20776
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Mar 02 15:55:35 2024
Quant Method : I:\PEST\Pest15\2024\240302A\P15_pest_2024_01_08_ugL_ICAL2077
... 6.m
Quant Title : pest
QLast Update : Sat Mar 02 15:55:33 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
6		beta-BHC	*	50.000	0.000	100.0#	0	-2.55#
7		delta-BHC	*	50.000	0.000	100.0#	0	-2.81#
8		Heptachlor		1.233	0.000	100.0#	0#	-2.88#
9		Aldrin		1.157	0.000	100.0#	0#	-3.19#
10		Alachlor	*	50.000	0.000	100.0#	0	-3.08#
11		Chlorpyrifos	*	50.000	0.000	100.0#	0	-3.43#
12		Heptachlor Epoxide	*	50.000	0.000	100.0#	0	-3.80#
13		gamma-Chlordane (trans)		1.034	0.000	100.0#	0#	-4.02#
14		alpha-Chlordane (cis)	*	50.000	0.000	100.0#	0	-4.19#
15		4,4'-DDE		1.115	0.000	100.0#	0#	-4.40#
16		Endosulfan I	*	50.000	0.000	100.0#	0	-4.25#
17		Dieldrin		1.067	0.000	100.0#	0#	-4.55#
18		Endrin	*	50.000	0.000	100.0#	0	-4.86#
19		4,4'-DDD	*	50.000	0.000	100.0#	0	-4.99#
20		Endosulfan II	*	50.000	0.000	100.0#	0	-5.06#
21		4,4'-DDT	*	50.000	0.000	100.0#	0	-5.27#
22		Endrin Aldehyde	*	50.000	0.000	100.0#	0	-5.36#
23		Methoxychlor	*	50.000	0.000	100.0#	0	-5.84#
24		Mirex	*	50.000	0.000	100.0#	0	-5.97#
25		Endosulfan Sulfate	*	50.000	0.000	100.0#	0	-5.60#
26		Endrin Ketone		1.028	0.000	100.0#	0#	-6.01#
27	s	Decachlorobiphenyl	*	50.000	0.000	100.0#	0	-6.88#
33	i	1-br-2-nb_Toxaphene	^	1.000	1.000	0.0	0	-1.28#
34	l2	toxaphene-1	*	2000.000	0.000	100.0#	0	-5.02#
35	l2	toxaphene-2	*	2000.000	0.000	100.0#	0	-5.05#
36	l2	toxaphene-4	*	2000.000	0.000	100.0#	0	-5.37#
37	l2	toxaphene-5	*	2000.000	0.000	100.0#	0	-5.78#

* Evaluation of CC level amount vs concentration.

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest15\2024\240302A\
Data File : 15240302a-06.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 2 Mar 2024   3:40 pm
Operator : Pest15:jag
Sample   : wg1891515-2,42,,chlor11437 (Sig #1); chlor11437 (Sig #2)
Misc   : wg1891515,,ical20776
ALS Vial : 6   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Mar 02 15:55:35 2024
Quant Method : I:\PEST\Pest15\2024\240302A\P15_pest_2024_01_08_ugL_ICAL2077
...   6.m
Quant Title : pest
QLast Update : Sat Mar 02 15:55:33 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area% Dev(Min)

(#) = Out of Range SPCC's out = 0 CCC's out = 0
(^) = ISTD area calculated using ICAL average

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest15\2024\240302A\
Data File : 15240302a-06.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 Mar 2024 3:40 pm
Operator : Pest15:jag
Sample : wg1891515-2,42,,chlor11437 (Sig #1); chlor11437 (Sig #2)
Misc : wg1891515,,ical20776
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Mar 02 15:55:35 2024
Quant Method : I:\PEST\Pest15\2024\240302A\P15_pest_2024_01_08_ugL_ICAL2077
... 6.m
Quant Title : pest
QLast Update : Sat Mar 02 15:55:33 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	1.202	1.284	103.6E6	85362450	25.000	25.000
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
	Target Compounds						
3)	Hexachlorobe	0.000	0.000	0	0	N.D. d	N.D. d
4)	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6)	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8)	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9)	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10)	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11)	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12)	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13)	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14)	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17)	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18)	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22)	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest15\2024\240302A\
Data File : 15240302a-06.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 Mar 2024 3:40 pm
Operator : Pest15:jag
Sample : wg1891515-2,42,,chlor11437 (Sig #1); chlor11437 (Sig #2)
Misc : wg1891515,,ical20776
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Mar 02 15:55:35 2024
Quant Method : I:\PEST\Pest15\2024\240302A\P15_pest_2024_01_08_ugL_ICAL2077
... 6.m
Quant Title : pest
QLast Update : Sat Mar 02 15:55:33 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l	
23)	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d	
24)	Mirex	0.000	0.000	0	0	N.D. d	N.D. d	
25)	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d	
26)	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d	
29) l1	chlordane-1	2.436	2.877	279.3E6	173.3E6	1103.669	893.012	
30) l1	chlordane-3	2.787	3.342	202.0E6	131.6E6	1222.223	1097.695	
31) l1	chlordane-4	3.337	4.018	761.7E6	475.1E6	1327.909	1187.921	
32) l1	chlordane-5	3.459	4.191	1289.4E6	369.9E6	1464.415	1152.011	
Sum	chlordane-1			2532.3E6	1149.9E6	N.D.	N.D.	D
Average	chlordane-1					1279.554	1082.660	
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d	
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d	
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d	
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d	
Sum	toxaphene-1			0	0	N.D.	N.D.	
Average	toxaphene-1					0.000	0.000	

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			0	0	N.D.	N.D.	
Average	toxaphene-1					0.000	0.000	

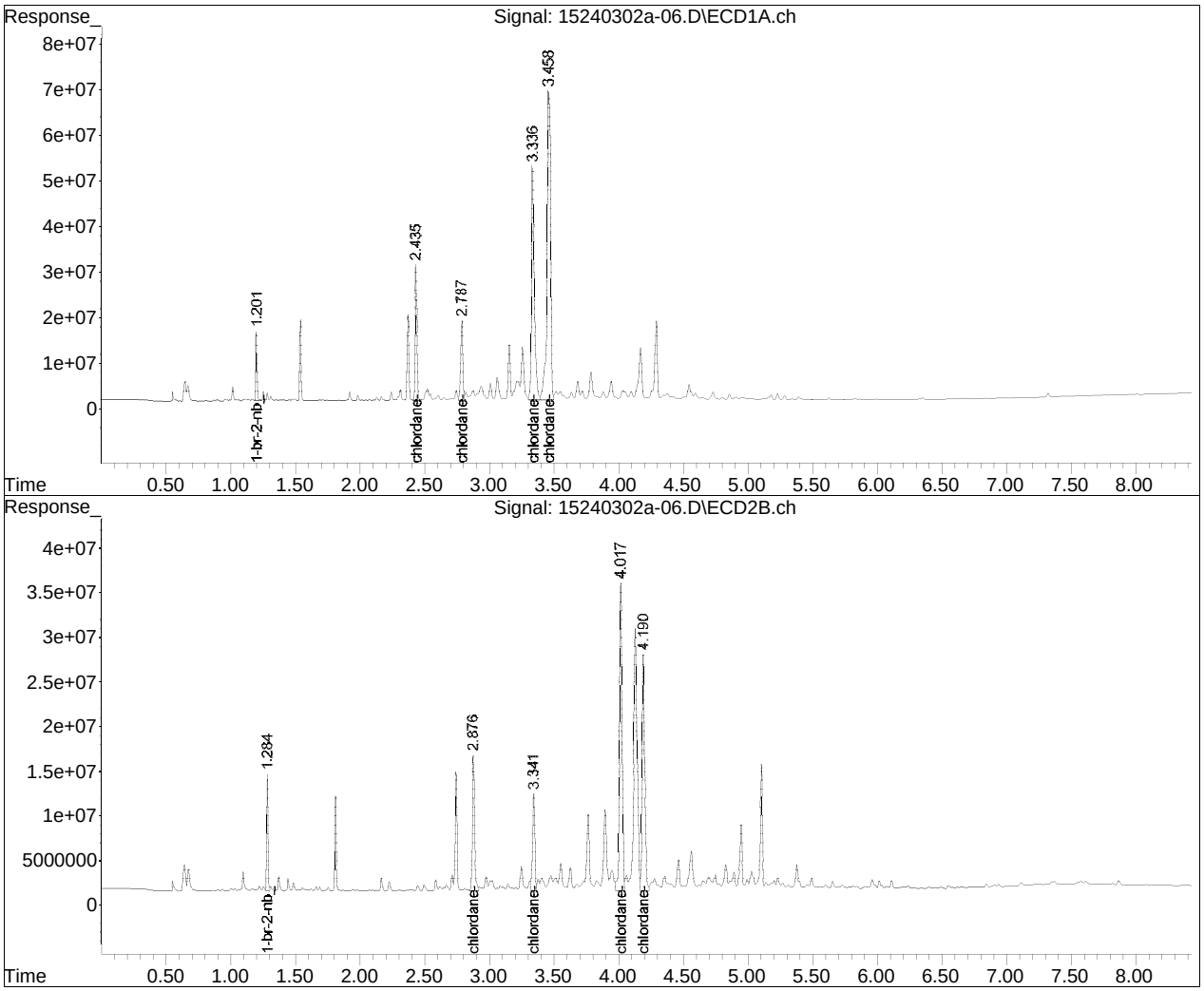
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest15\2024\240302A\
Data File : 15240302a-06.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 Mar 2024 3:40 pm
Operator : Pest15:jag
Sample : wg1891515-2,42,,chlor11437 (Sig #1); chlor11437 (Sig #2)
Misc : wg1891515,,ical20776
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Mar 02 15:55:35 2024
Quant Method : I:\PEST\Pest15\2024\240302A\P15_pest_2024_01_08_ugL_ICAL2077
... 6.m
Quant Title : pest
QLast Update : Sat Mar 02 15:55:33 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Manual Integration Report

Data Path	: I:\PEST\Pest15\2024\240302	QMethod	: P15_pest_2024_01_08_ugL_
Data File	: 15240302a-06.D	Operator	: Pest15:jag
Date Inj'd	: 3/2/2024 3:40 pm	Instrument	: Pest 15
Sample	: wg1891515-2,42,,chlor11437	Quant Date	: 3/2/2024 3:55 pm

There are no manual integrations or false positives in this file.

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest11\2024\240305A\
Data File : 11240305a-03.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 05 Mar 2024   7:24 am
Operator : PEST11:peg
Sample   : wg1892239-1,42,,pest11430 (Sig #1); pest11430 (Sig #2)
Misc   : wg1892239,,ical20697
ALS Vial : 3 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 05 07:47:02 2024
Quant Method : I:\PEST\Pest11\2024\240305A\pest11_12_19_23_ugL_ICAL20697.M
Quant Title : pest
QLast Update : Tue Mar 05 07:47:17 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
1	i	1-br-2-nb_Pesticides	^	1.000	1.000	0.0	96	0.00
2	s	2,4,5,6-Tetrachloro-m-xylen		0.958	1.124	-17.3	114	0.00
3	t	Hexachlorobenzene		1.110	1.407	-26.8#	128	0.00
4	t	alpha-BHC		1.338	1.540	-15.1	103	0.00
5	t	gamma-BHC (lindane)		1.278	1.385	-8.4	99	0.00
6	t	beta-BHC	*	50.000	54.036	-8.1	103	0.00
7	t	delta-BHC		1.294	1.309	-1.2	92	0.00
8	t	Heptachlor		1.309	1.419	-8.4	103	0.00
9	t	Aldrin		1.187	1.268	-6.8	100	0.00
10	t	Alachlor		0.192	0.204	-6.2	110	0.00
11	t	Chlorpyrifos	*	50.000	58.912	-17.8	106	0.00
12	t	Heptachlor Epoxide		1.198	1.153	3.8	94	0.00
13	t	gamma-Chlordane (trans)		1.091	1.171	-7.3	107	0.00
14	t	alpha-Chlordane (cis)		1.241	1.146	7.7	92	0.00
15	t	4,4'-DDE		1.126	1.008	10.5	84	0.00
16	t	Endosulfan I		1.172	1.061	9.5	91	0.00
17	t	Dieldrin		1.168	1.132	3.1	94	0.00
18	t	Endrin		1.186	1.066	10.1	86	0.00
19	t	4,4'-DDD		0.934	0.795	14.9	81	0.00
20	t	Endosulfan II		1.095	0.944	13.8	84	0.00
21	t	4,4'-DDT		1.111	0.872	21.5#	76	0.00
22	t	Endrin Aldehyde	*	50.000	40.469	19.1	78	0.00
23	t	Methoxychlor	*	50.000	45.215	9.6	84	0.00
24	t	Mirex	*	50.000	52.182	-4.4	98	0.00
25	t	Endosulfan Sulfate		1.076	1.053	2.1	99	0.00
26	t	Endrin Ketone		1.215	1.396	-14.9	113	0.00
27	s	Decachlorobiphenyl	*	50.000	66.761	-33.5#	122	0.00

Signal #2

Data Path : I:\PEST\Pest11\2024\240305A\
Data File : 11240305a-03.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 05 Mar 2024   7:24 am
Operator : PEST11:peg
Sample   : wg1892239-1,42,,pest11430 (Sig #1); pest11430 (Sig #2)
Misc   : wg1892239,,ical20697
ALS Vial : 3 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 05 07:47:02 2024
Quant Method : I:\PEST\Pest11\2024\240305A\pest11_12_19_23_ugL_ICAL20697.M
Quant Title : pest
QLast Update : Tue Mar 05 07:47:17 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
1	i	1-br-2-nb_Pesticides	^	1.000	1.000	0.0	104	0.00
2	s	2,4,5,6-Tetrachloro-m-xyl		0.995	1.122	-12.8	126	0.00
3	t	Hexachlorobenzene	*	50.000	57.056	-14.1	120	0.00
4	t	alpha-BHC		1.388	1.651	-18.9	124	0.00
5	t	gamma-BHC (lindane)		1.315	1.474	-12.1	122	0.00
6	t	beta-BHC	*	50.000	56.388	-12.8	119	0.00
7	t	delta-BHC		1.309	1.433	-9.5	117	0.00
8	t	Heptachlor		1.356	1.511	-11.4	125	0.00
9	t	Aldrin		1.227	1.403	-14.3	125	0.00
10	t	Alachlor	*	50.000	60.878	-21.8#	117	0.00
11	t	Chlorpyrifos	*	50.000	60.804	-21.6#	121	0.00
12	t	Heptachlor Epoxide	*	50.000	57.082	-14.2	123	0.00
13	t	gamma-Chlordane (trans)		1.105	1.361	-23.2#	143	0.00
14	t	alpha-Chlordane (cis)	*	50.000	57.636	-15.3	126	0.00
15	t	4,4'-DDE		1.127	1.255	-11.4	122	0.00
16	t	Endosulfan I		1.127	1.225	-8.7	124	0.00
17	t	Dieldrin		1.127	1.386	-23.0#	138	0.00
18	t	Endrin		1.130	1.304	-15.4	128	0.00
19	t	4,4'-DDD		0.897	1.035	-15.4	128	0.00
20	t	Endosulfan II		1.018	1.143	-12.3	129	0.00
21	t	4,4'-DDT	*	50.000	56.915	-13.8	126	0.00
22	t	Endrin Aldehyde	*	50.000	53.959	-7.9	119	0.00
23	t	Methoxychlor	*	50.000	60.947	-21.9#	128	0.00
24	t	Mirex	*	50.000	64.861	-29.7#	136	0.00
25	t	Endosulfan Sulfate		0.994	1.146	-15.3	136	0.00
26	t	Endrin Ketone		1.068	1.303	-22.0#	140	0.00
27	s	Decachlorobiphenyl	*	50.000	65.645	-31.3#	137	0.00

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest11\2024\240305A\
Data File : 11240305a-03.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 05 Mar 2024   7:24 am
Operator : PEST11:peg
Sample   : wg1892239-1,42,,pest11430 (Sig #1); pest11430 (Sig #2)
Misc   : wg1892239,,ical20697
ALS Vial : 3 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 05 07:47:02 2024
Quant Method : I:\PEST\Pest11\2024\240305A\pest11_12_19_23_ugL_ICAL20697.M
Quant Title : pest
QLast Update : Tue Mar 05 07:47:17 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
28	i	1-br-2-nb_Chlordane	^	1.000	1.000	0.0	0	-1.35#
29	l1	chlordane-1		*1000.000	0.000	100.0#	0	-2.52#
30	l1	chlordane-3		*1000.000	0.000	100.0#	0	-2.94#
31	l1	chlordane-4		*1000.000	0.000	100.0#	0	-3.51#
32	l1	chlordane-5		*1000.000	0.000	100.0#	0	-3.64#
33	i	1-br-2-nb_Toxaphene	^	1.000	1.000	0.0	0	-1.35#
34	l2	toxaphene-2		0.059	0.000	100.0#	0#	-4.53#
35	l2	toxaphene-3		0.043	0.000	100.0#	0#	-4.65#
36	l2	toxaphene-4		0.050	0.000	100.0#	0#	-4.87#
37	l2	toxaphene-5		0.045	0.000	100.0#	0#	-5.24#

Signal #2

28	i	1-br-2-nb_Chlordane	^	1.000	1.000	0.0	0	-1.45#
29	l1	chlordane-1		*1000.000	0.000	100.0#	0	-2.96#
30	l1	chlordane-3		*1000.000	0.000	100.0#	0	-3.58#
31	l1	chlordane-4		*1000.000	0.000	100.0#	0	-4.29#
32	l1	chlordane-5		*1000.000	0.000	100.0#	0	-4.45#
33	i	1-br-2-nb_Toxaphene	^	1.000	1.000	0.0	0	-1.45#
34	l2	toxaphene-2		0.022	0.000	100.0#	0#	-5.23#
35	l2	toxaphene-3		0.033	0.000	100.0#	0#	-5.26#
36	l2	toxaphene-4		0.038	0.000	100.0#	0#	-5.57#
37	l2	toxaphene-5		0.036	0.000	100.0#	0#	-5.97#

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0
(^) = ISTD area calculated using ICAL average

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240305A\
Data File : 11240305a-03.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 05 Mar 2024 7:24 am
Operator : PEST11:peg
Sample : wg1892239-1,42,,pest11430 (Sig #1); pest11430 (Sig #2)
Misc : wg1892239,,ical20697
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 05 07:47:02 2024
Quant Method : I:\PEST\Pest11\2024\240305A\pest11_12_19_23_ugL_ICAL20697.M
Quant Title : pest
QLast Update : Tue Mar 05 07:47:17 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	1.352	1.452	83711596	125.5E6	25.000M4	25.000M4
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.702	1.949	188.2E6	281.7E6	58.700M4	56.347
	Spiked Amount 50.000	Range 30 - 150		Recovery =		117.40%	112.69%
27) s	Decachlorobi	6.353	7.044	199.7E6	253.5E6	66.761M4	65.645M4
	Spiked Amount 50.000	Range 30 - 150		Recovery =		133.52%	131.29%
	Target Compounds						
3) t	Hexachlorobe	1.919	2.284	235.6E6	292.4E6	63.354M4	57.056M4
4) t	alpha-BHC	2.020	2.383	257.9E6	414.5E6	57.569	59.439
5) t	gamma-BHC (l	2.226	2.682	231.8E6	370.2E6	54.186M4	56.051M4
6) t	beta-BHC	2.284	2.749	102.8E6	158.0E6	54.036M4	56.388M4
7) t	delta-BHC	2.415	3.027	219.2E6	359.8E6	50.565M4	54.724
8) t	Heptachlor	2.581	3.096	237.5E6	379.5E6	54.186M4	55.710M4
9) t	Aldrin	2.829	3.428	212.2E6	352.3E6	53.400M4	57.186
10) t	Alachlor	2.951	3.301	34178602	47867775	53.199	60.878M4
11) t	Chlorpyrifos	3.045	3.667	109.9E6	179.2E6	58.912	60.804M4
12) t	Heptachlor E	3.383	4.062	193.0E6	329.3E6	48.137M4	57.082
13) t	gamma-Chlord	3.510	4.284	196.0E6	341.8E6	53.648	61.595
14) t	alpha-Chlord	3.647	4.446	191.8E6	334.0E6	46.169	57.636
15) t	4,4'-DDE	3.745	4.631	168.8E6	315.2E6	44.762	55.695M4
16) t	Endosulfan I	3.785	4.505	177.6E6	307.6E6	45.238M4	54.369
17) t	Dieldrin	4.049	4.785	189.5E6	348.0E6	48.462	61.500M4

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240305A\
Data File : 11240305a-03.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 05 Mar 2024 7:24 am
Operator : PEST11:peg
Sample : wg1892239-1,42,,pest11430 (Sig #1); pest11430 (Sig #2)
Misc : wg1892239,,ical20697
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 05 07:47:02 2024
Quant Method : I:\PEST\Pest11\2024\240305A\pest11_12_19_23_ugL_ICAL20697.M
Quant Title : pest
QLast Update : Tue Mar 05 07:47:17 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
18) t	Endrin	4.303	5.076	178.4E6	327.3E6	44.937	57.703
19) t	4,4'-DDD	4.409	5.189	133.0E6	259.8E6	42.553	57.691M4
20) t	Endosulfan I	4.537	5.268	158.0E6	287.0E6	43.119M4	56.158M4
21) t	4,4'-DDT	4.696	5.460	146.0E6	292.5E6	39.226	56.915M4
22) t	Endrin Aldeh	4.947	5.558	119.9E6	219.9E6	40.469	53.959M4
23) t	Methoxychlor	5.176	6.013	89788221	156.9E6	45.215	60.947M4
24) t	Mirex	5.234	6.159	160.4E6	241.1E6	52.182M4	64.861
25) t	Endosulfan S	5.334	5.783	176.3E6	287.9E6	48.941M4	57.681
26) t	Endrin Keton	5.559	6.191	233.7E6	327.2E6	57.453M4	60.988
29) l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000

(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240305A\
Data File : 11240305a-03.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 05 Mar 2024 7:24 am
Operator : PEST11:peg
Sample : wg1892239-1,42,,pest11430 (Sig #1); pest11430 (Sig #2)
Misc : wg1892239,,ical20697
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 05 07:47:02 2024
Quant Method : I:\PEST\Pest11\2024\240305A\pest11_12_19_23_ugL_ICAL20697.M
Quant Title : pest
QLast Update : Tue Mar 05 07:47:17 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l

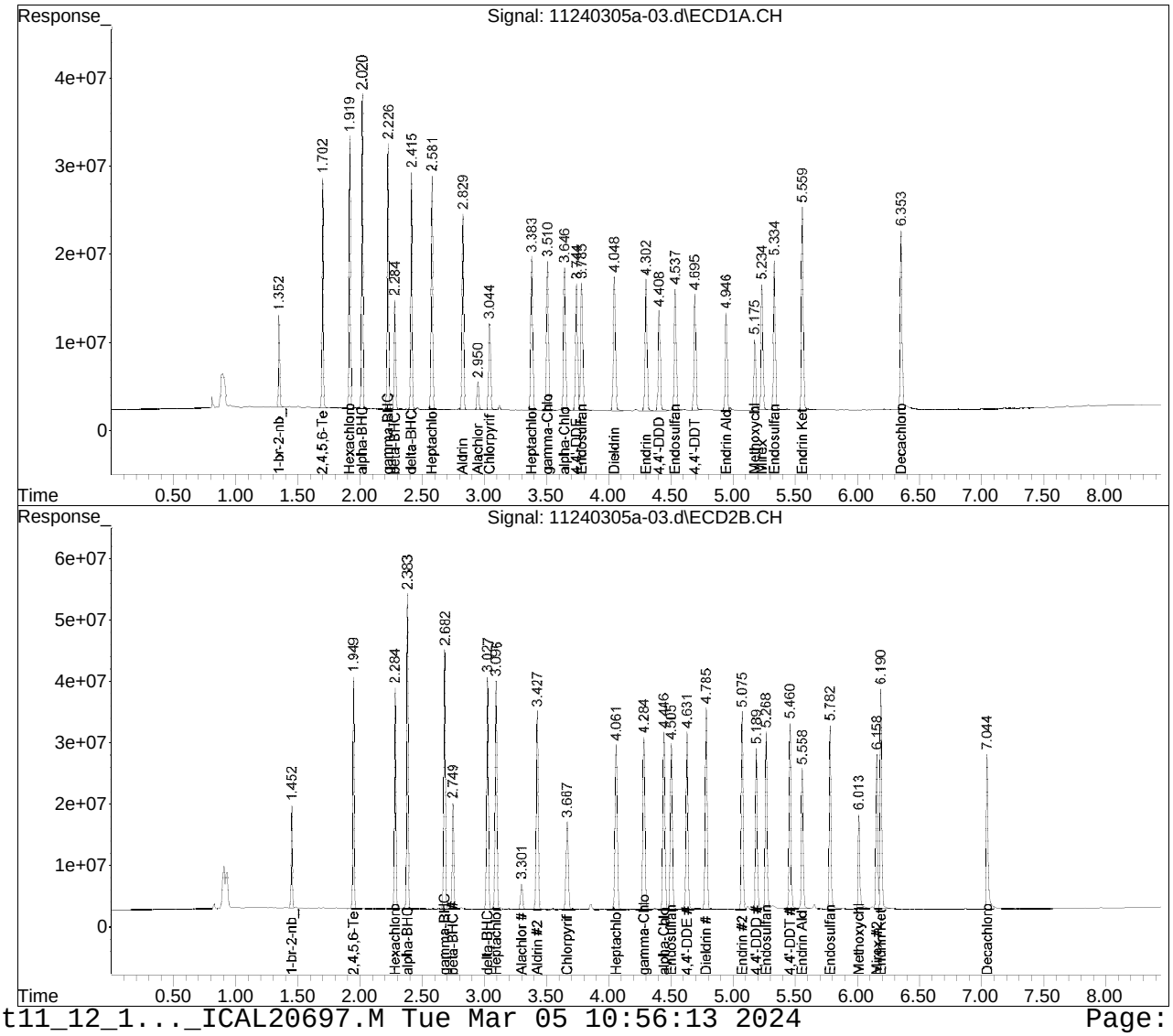
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest11\2024\240305A\
Data File : 11240305a-03.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 05 Mar 2024 7:24 am
Operator : PEST11:peg
Sample : wg1892239-1,42,,pest11430 (Sig #1); pest11430 (Sig #2)
Misc : wg1892239,,ical20697
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 05 07:47:02 2024
Quant Method : I:\PEST\Pest11\2024\240305A\pest11_12_19_23_ugL_ICAL20697.M
Quant Title : pest
QLast Update : Tue Mar 05 07:47:17 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

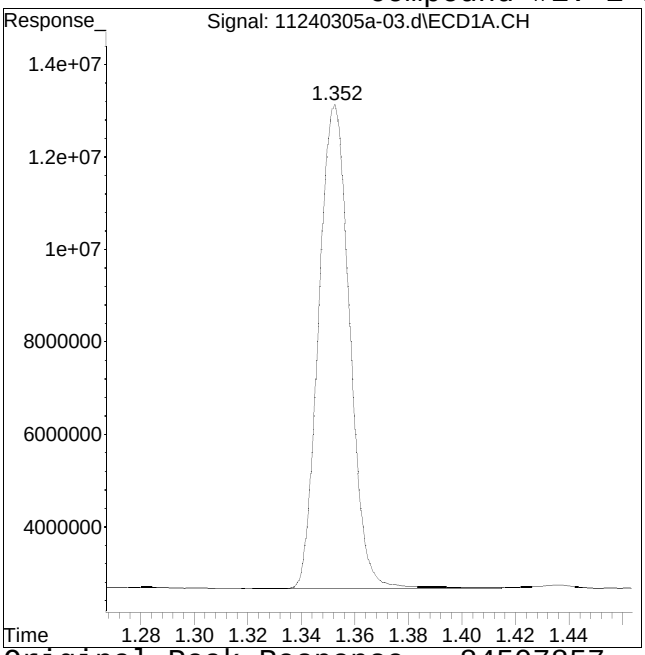
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



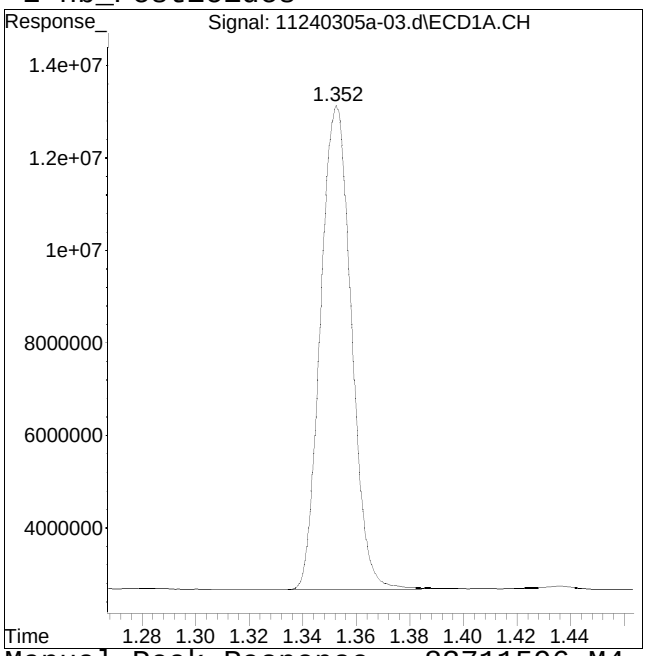
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-03.d Operator : PEST11:peg
Date Inj'd : 3/5/2024 7:24 am Instrument : Pest 11
Sample : wg1892239-1,42,,pest11430 Quant Date : 3/5/2024 7:47 am

Compound #1: 1-br-2-nb_Pesticides



Original Peak Response = 84507857



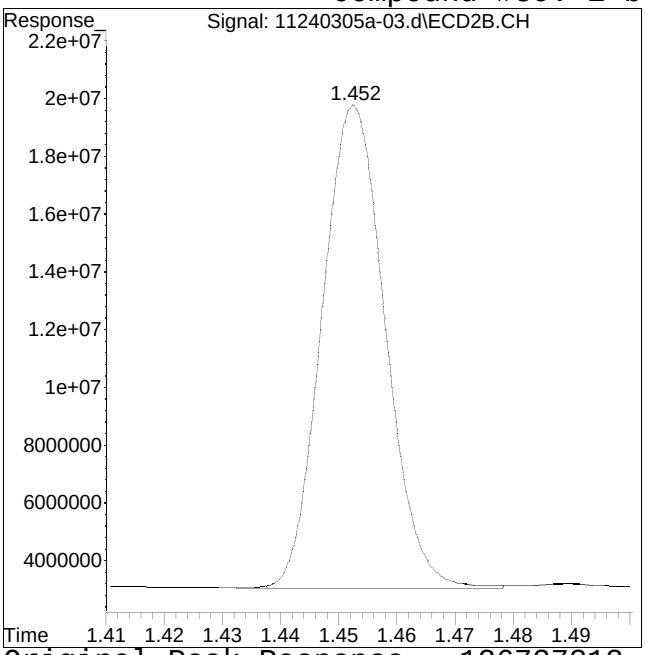
Manual Peak Response = 83711596 M4

M4 = Poor automated baseline construction.

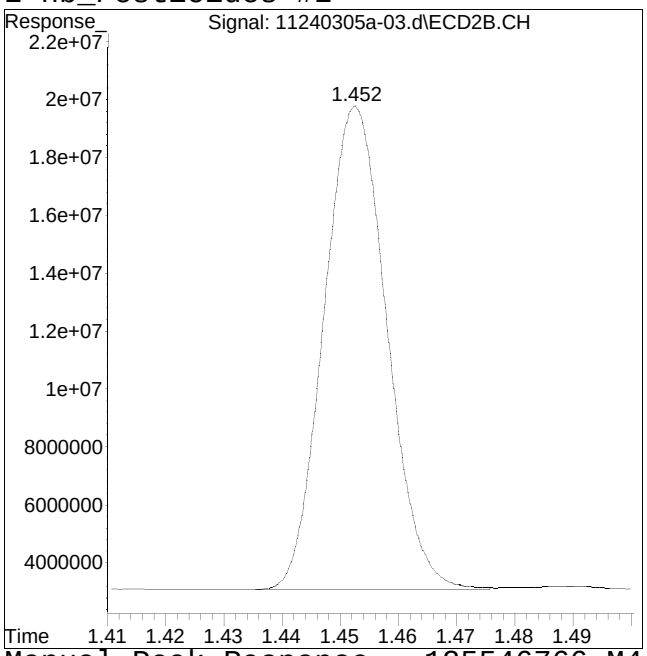
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-03.d Operator : PEST11:peg
Date Inj'd : 3/5/2024 7:24 am Instrument : Pest 11
Sample : wg1892239-1,42,,pest11430 Quant Date : 3/5/2024 7:47 am

Compound #39: 1-br-2-nb_Pesticides #2



Original Peak Response = 126727312



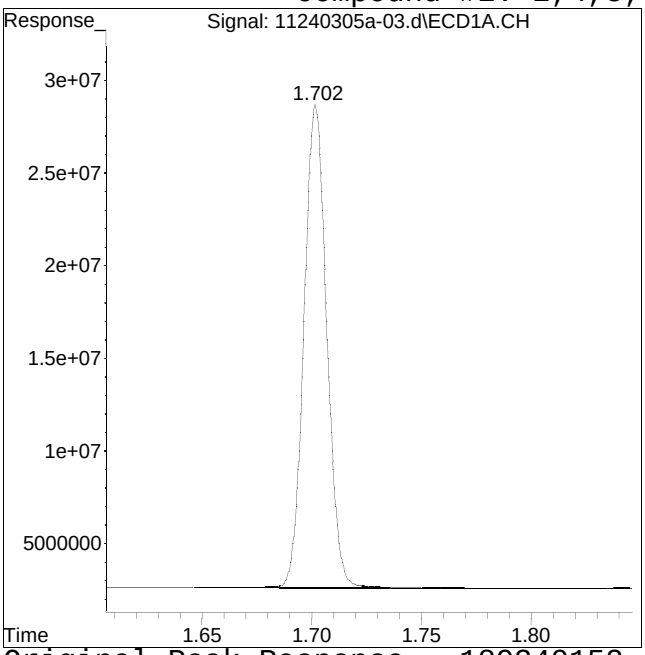
Manual Peak Response = 125546766 M4

M4 = Poor automated baseline construction.

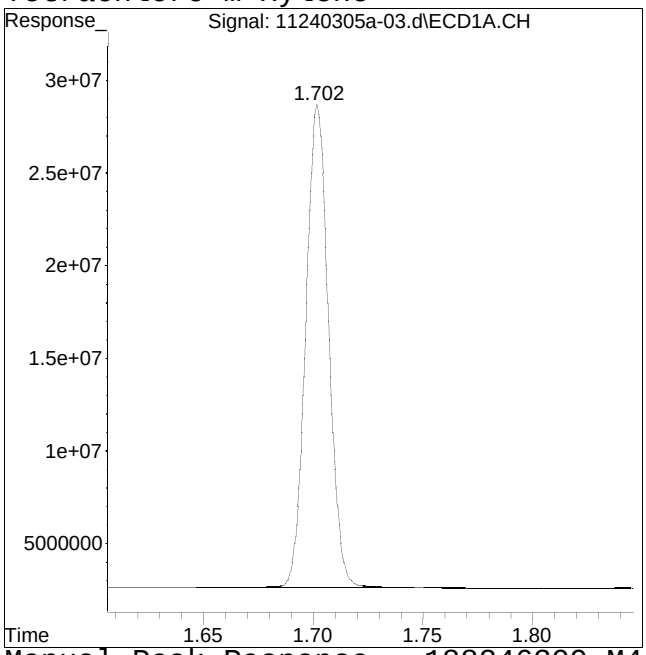
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-03.d Operator : PEST11:peg
Date Inj'd : 3/5/2024 7:24 am Instrument : Pest 11
Sample : wg1892239-1,42,,pest11430 Quant Date : 3/5/2024 7:47 am

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



Original Peak Response = 189340152



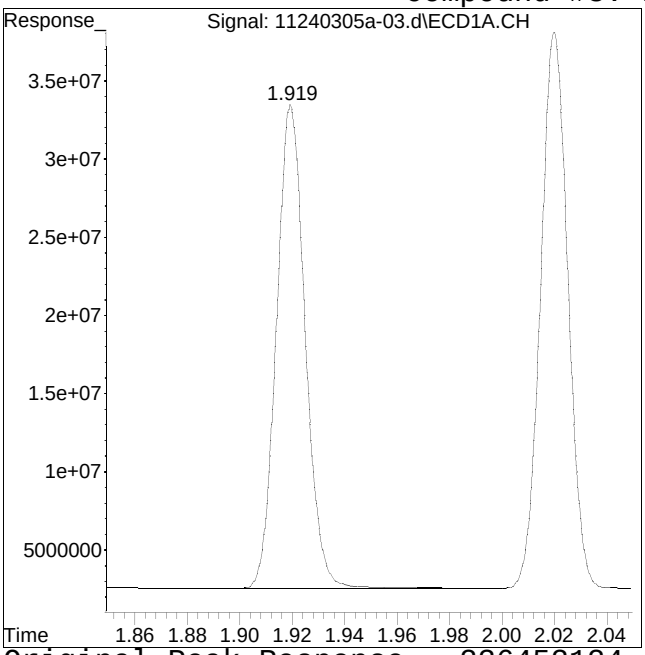
Manual Peak Response = 188246399 M4

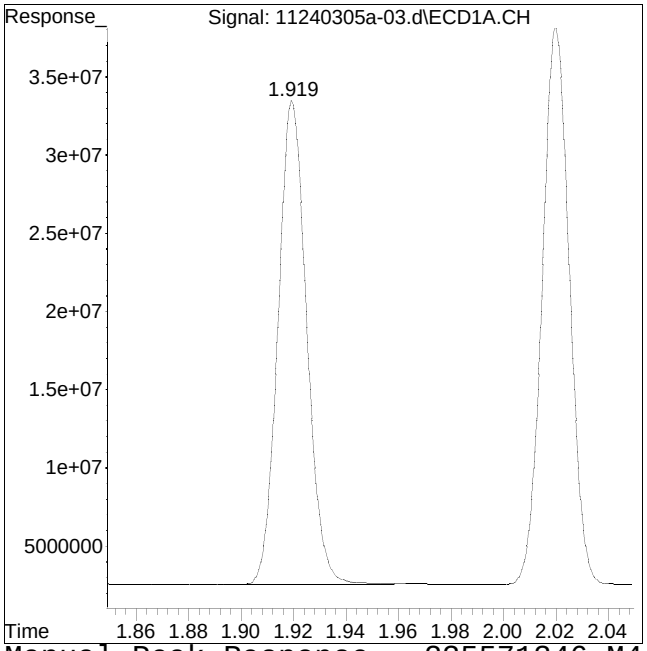
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-03.d Operator : PEST11:peg
Date Inj'd : 3/5/2024 7:24 am Instrument : Pest 11
Sample : wg1892239-1,42,,pest11430 Quant Date : 3/5/2024 7:47 am

Compound #3: Hexachlorobenzene



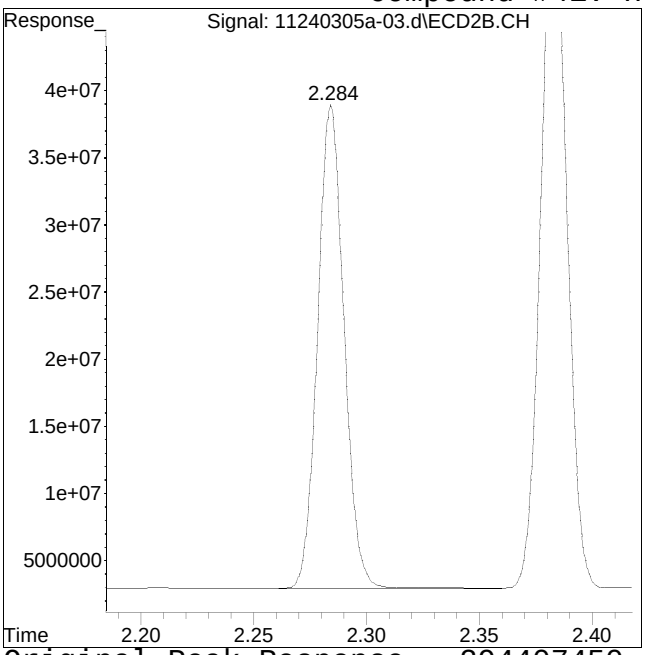


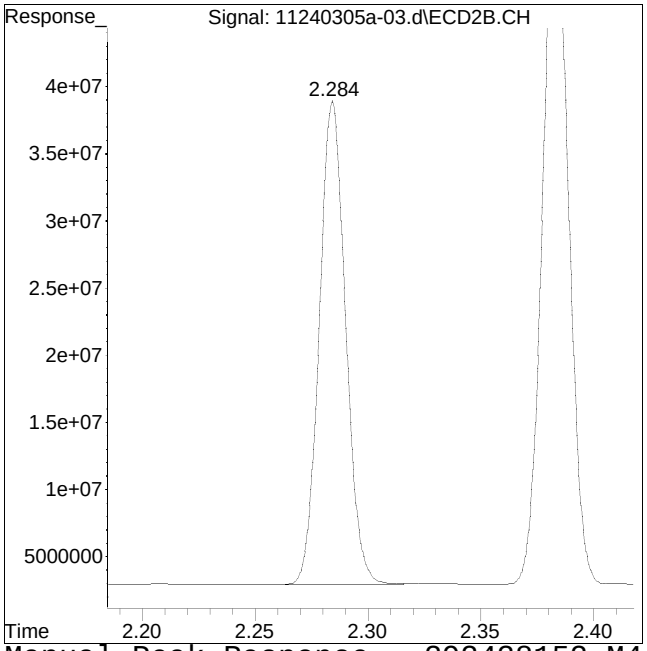
Original Peak Response = 236452124 Manual Peak Response = 235571346 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-03.d Operator : PEST11:peg
Date Inj'd : 3/5/2024 7:24 am Instrument : Pest 11
Sample : wg1892239-1,42,,pest11430 Quant Date : 3/5/2024 7:47 am

Compound #41: Hexachlorobenzene #2



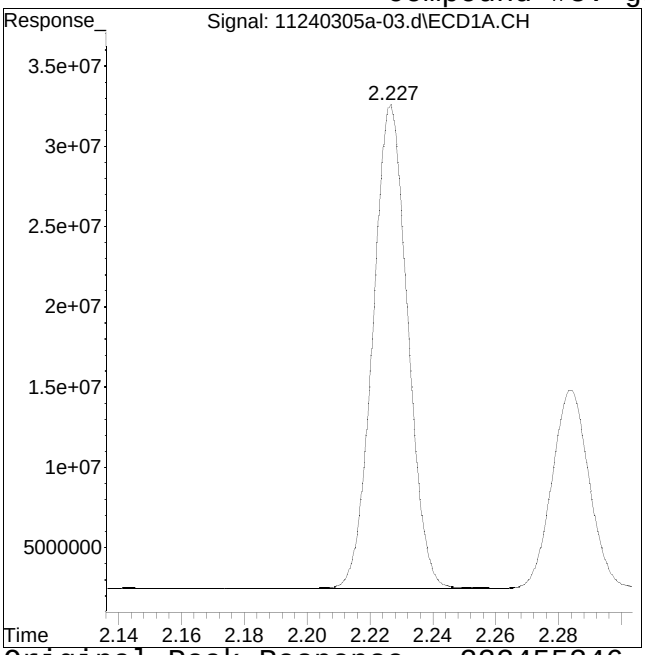


Original Peak Response = 294407450 Manual Peak Response = 292438152 M4
M4 = Poor automated baseline construction.

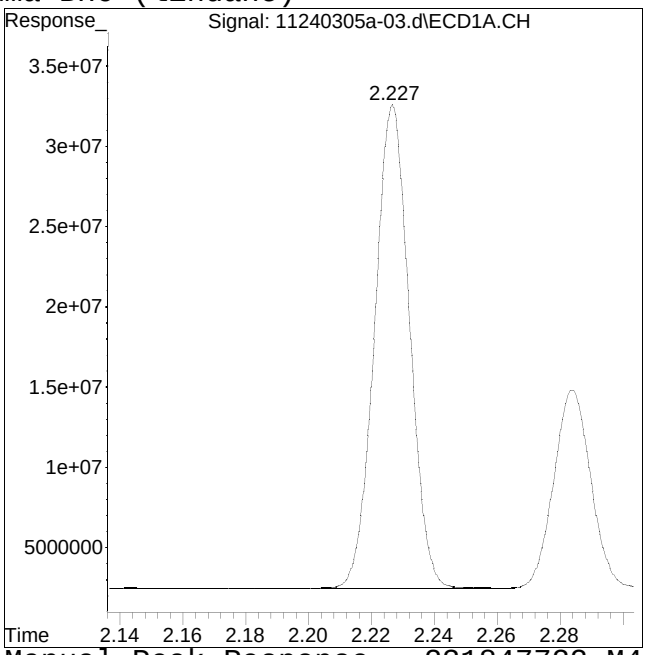
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-03.d Operator : PEST11:peg
Date Inj'd : 3/5/2024 7:24 am Instrument : Pest 11
Sample : wg1892239-1,42,,pest11430 Quant Date : 3/5/2024 7:47 am

Compound #5: gamma-BHC (lindane)



Original Peak Response = 232455346

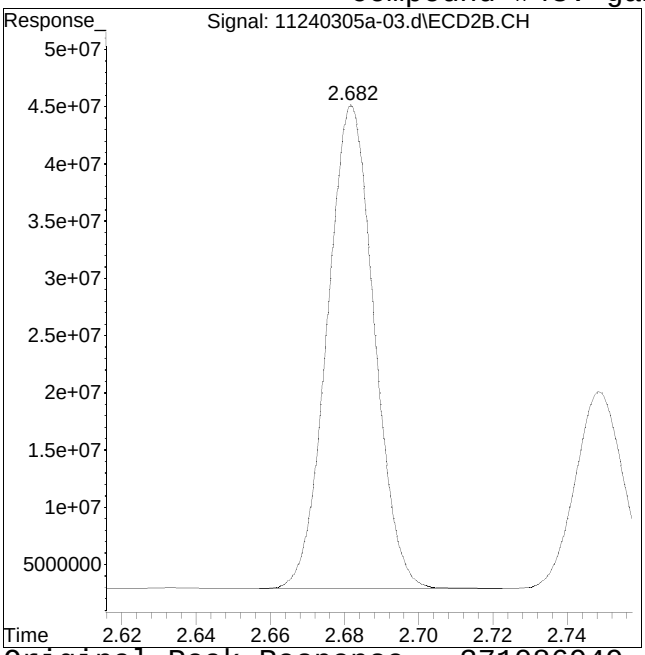


Manual Peak Response = 231847722 M4
M4 = Poor automated baseline construction.

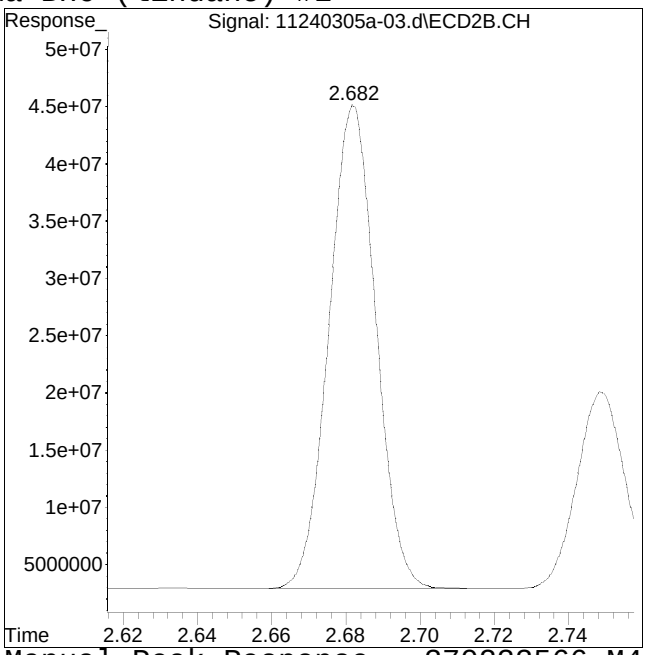
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-03.d Operator : PEST11:peg
Date Inj'd : 3/5/2024 7:24 am Instrument : Pest 11
Sample : wg1892239-1,42,,pest11430 Quant Date : 3/5/2024 7:47 am

Compound #43: gamma-BHC (lindane) #2



Original Peak Response = 371086949

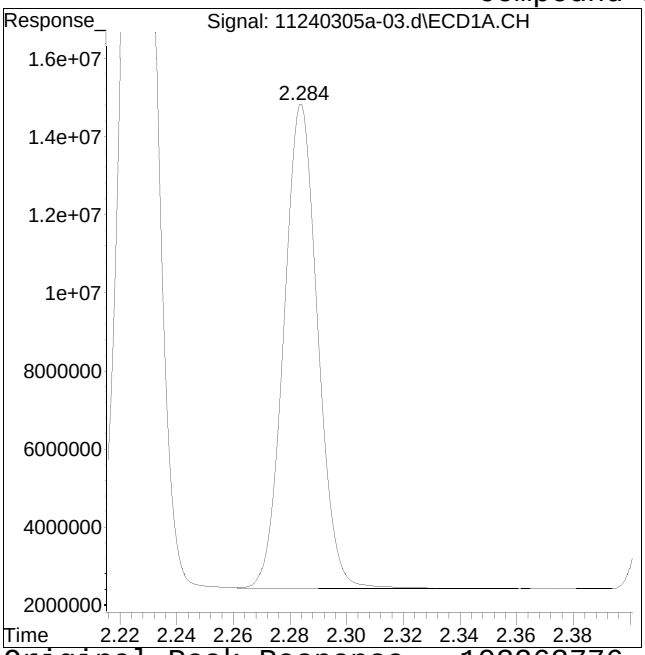


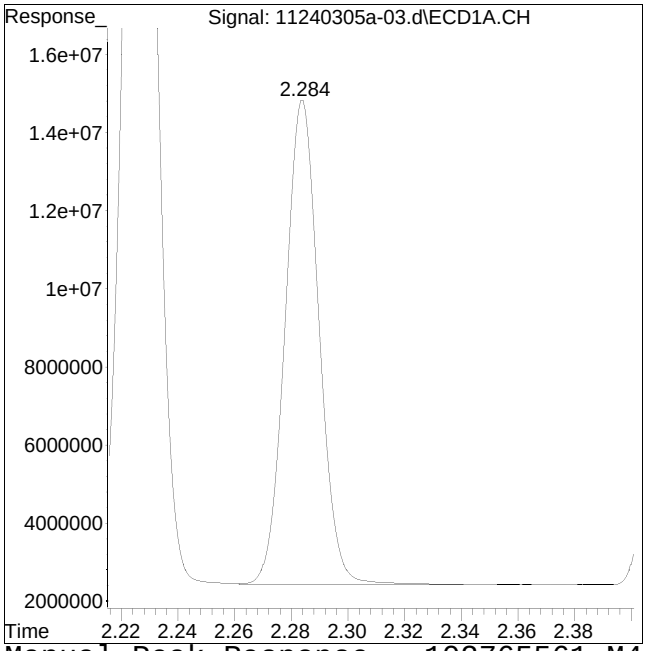
Manual Peak Response = 370233566 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-03.d Operator : PEST11:peg
Date Inj'd : 3/5/2024 7:24 am Instrument : Pest 11
Sample : wg1892239-1,42,,pest11430 Quant Date : 3/5/2024 7:47 am

Compound #6: beta-BHC



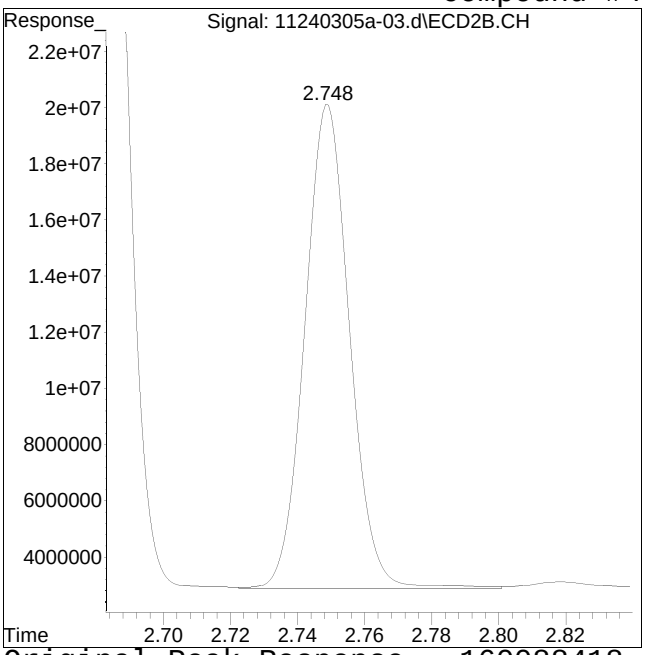


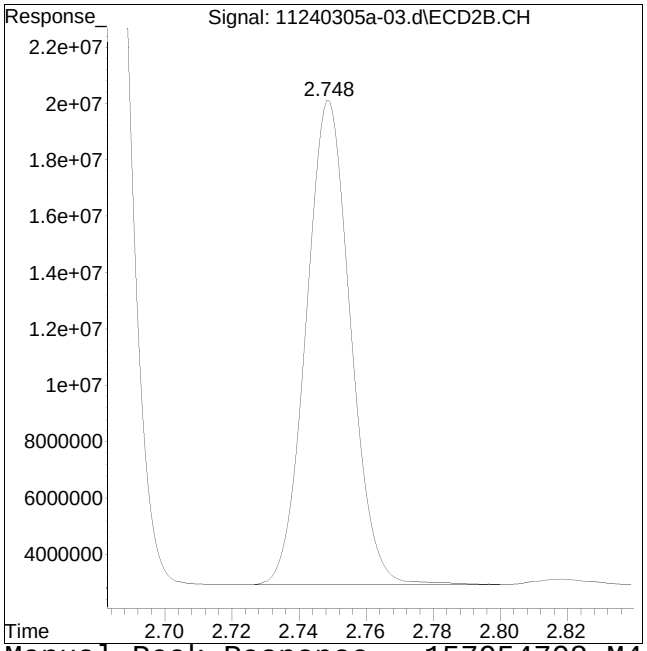
Original Peak Response = 103263776 Manual Peak Response = 102765561 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-03.d Operator : PEST11:peg
Date Inj'd : 3/5/2024 7:24 am Instrument : Pest 11
Sample : wg1892239-1,42,,pest11430 Quant Date : 3/5/2024 7:47 am

Compound #44: beta-BHC #2



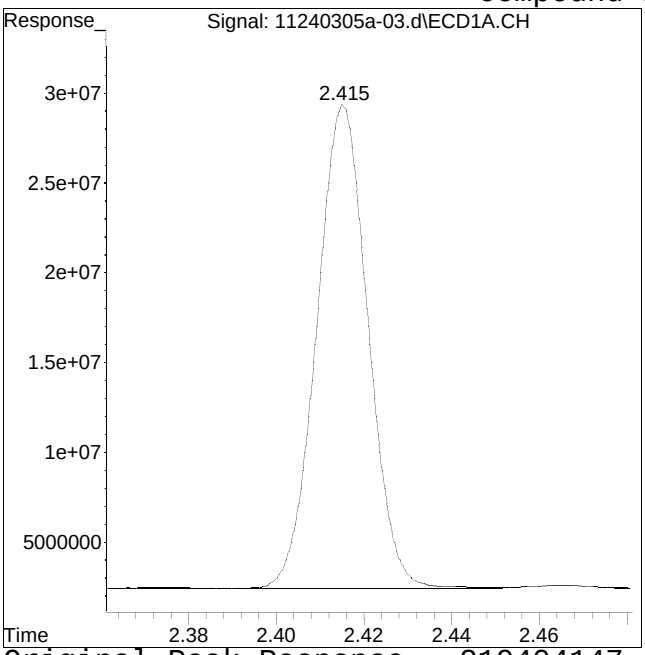


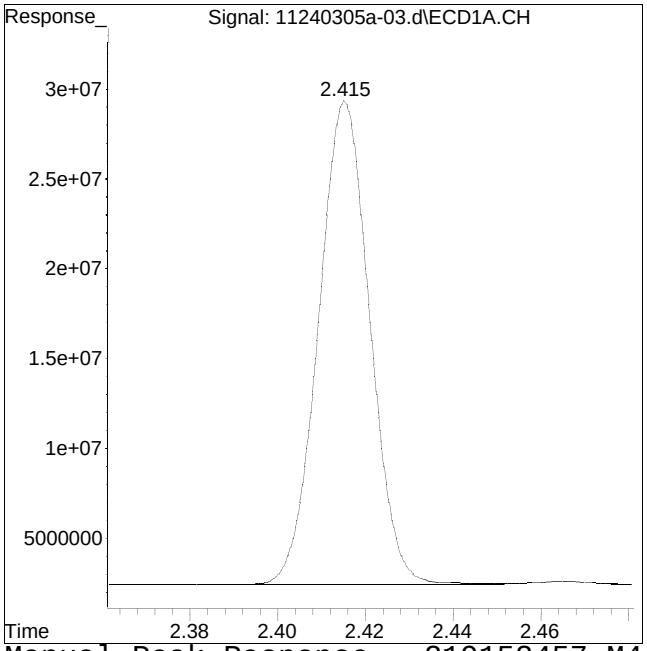
Original Peak Response = 160088418 Manual Peak Response = 157954708 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-03.d Operator : PEST11:peg
Date Inj'd : 3/5/2024 7:24 am Instrument : Pest 11
Sample : wg1892239-1,42,,pest11430 Quant Date : 3/5/2024 7:47 am

Compound #7: delta-BHC



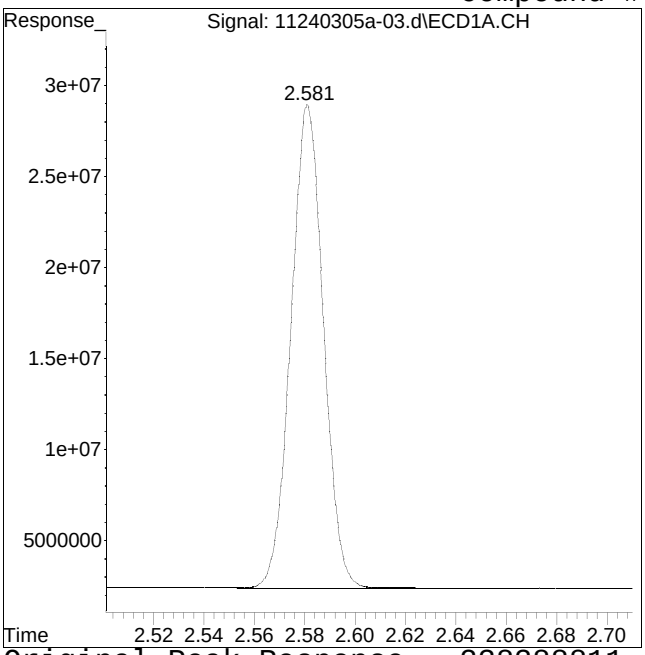


Original Peak Response = 219404147 Manual Peak Response = 219152457 M4
M4 = Poor automated baseline construction.

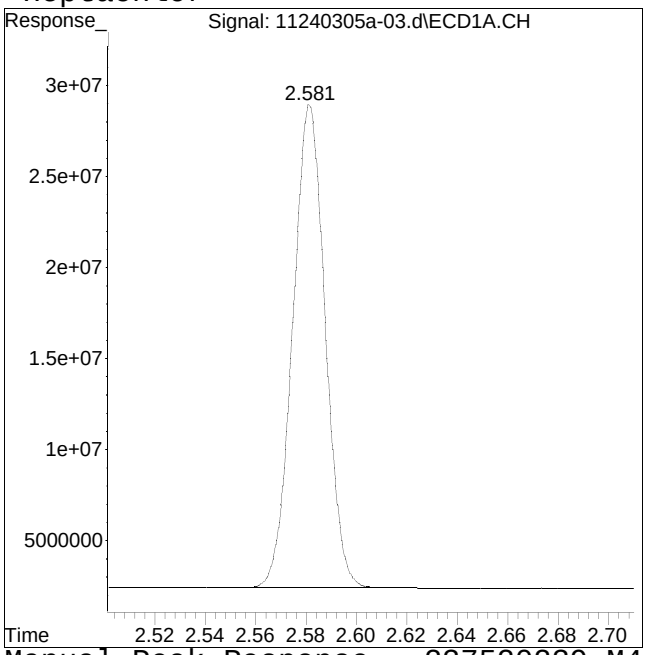
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-03.d Operator : PEST11:peg
Date Inj'd : 3/5/2024 7:24 am Instrument : Pest 11
Sample : wg1892239-1,42,,pest11430 Quant Date : 3/5/2024 7:47 am

Compound #8: Heptachlor



Original Peak Response = 238388811

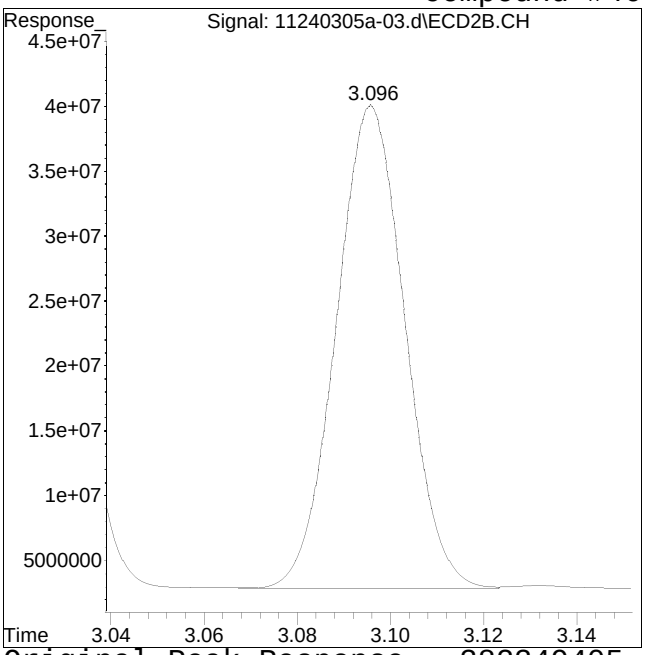


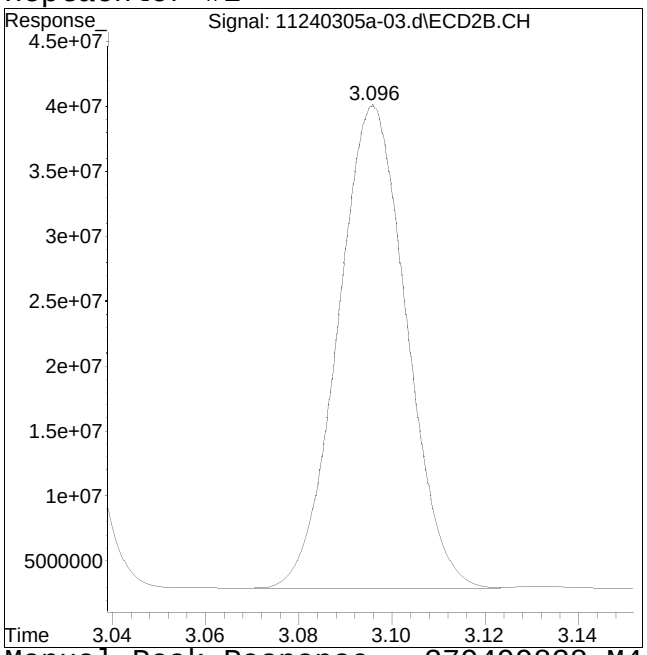
Manual Peak Response = 237520239 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-03.d Operator : PEST11:peg
Date Inj'd : 3/5/2024 7:24 am Instrument : Pest 11
Sample : wg1892239-1,42,,pest11430 Quant Date : 3/5/2024 7:47 am

Compound #46: Heptachlor #2



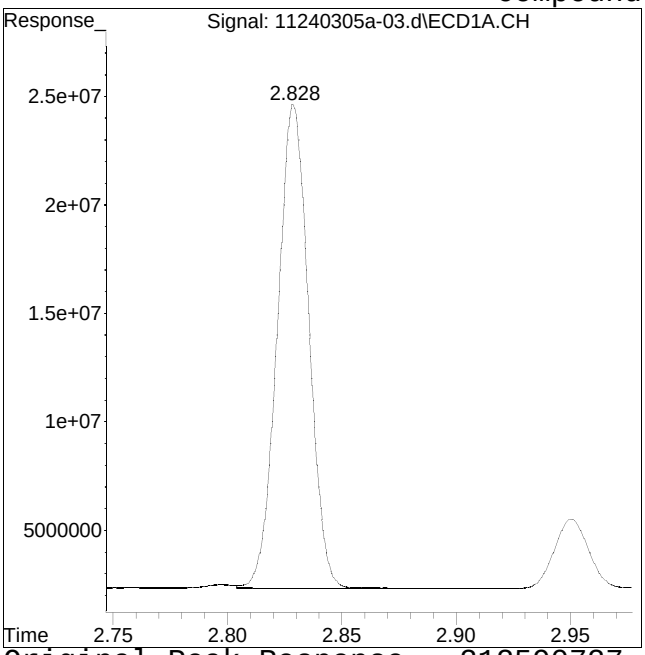


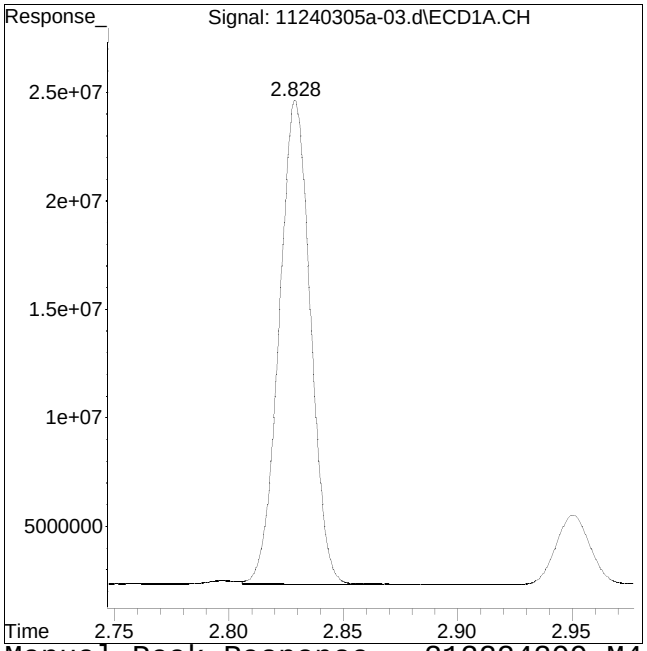
Original Peak Response = 382349405 Manual Peak Response = 379499838 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-03.d Operator : PEST11:peg
Date Inj'd : 3/5/2024 7:24 am Instrument : Pest 11
Sample : wg1892239-1,42,,pest11430 Quant Date : 3/5/2024 7:47 am

Compound #9: Aldrin



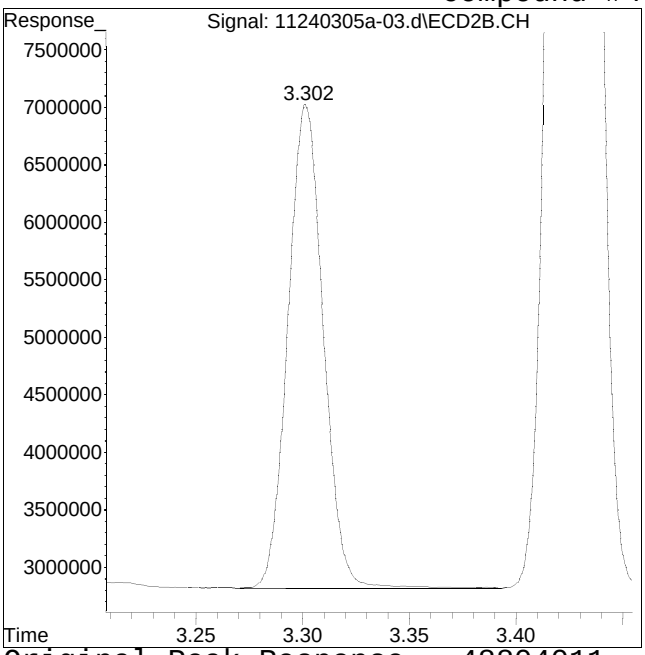


Original Peak Response = 212590727 Manual Peak Response = 212224299 M4
M4 = Poor automated baseline construction.

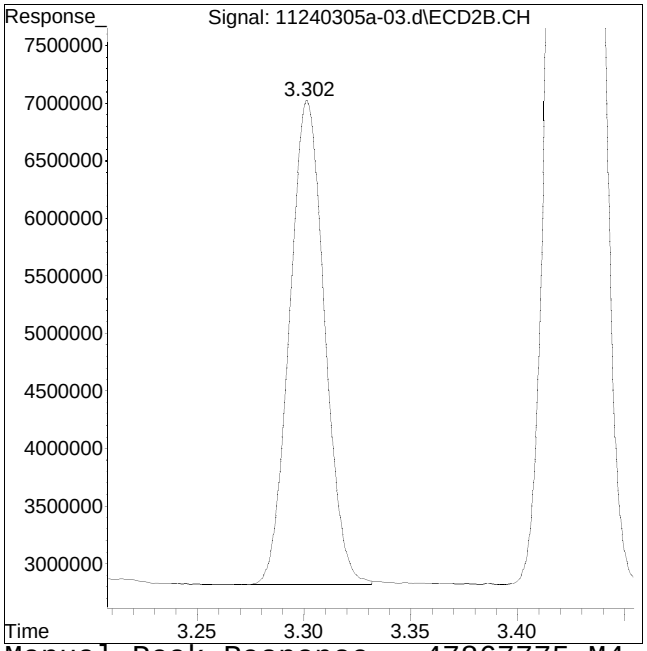
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-03.d Operator : PEST11:peg
Date Inj'd : 3/5/2024 7:24 am Instrument : Pest 11
Sample : wg1892239-1,42,,pest11430 Quant Date : 3/5/2024 7:47 am

Compound #48: Alachlor #2



Original Peak Response = 48804011



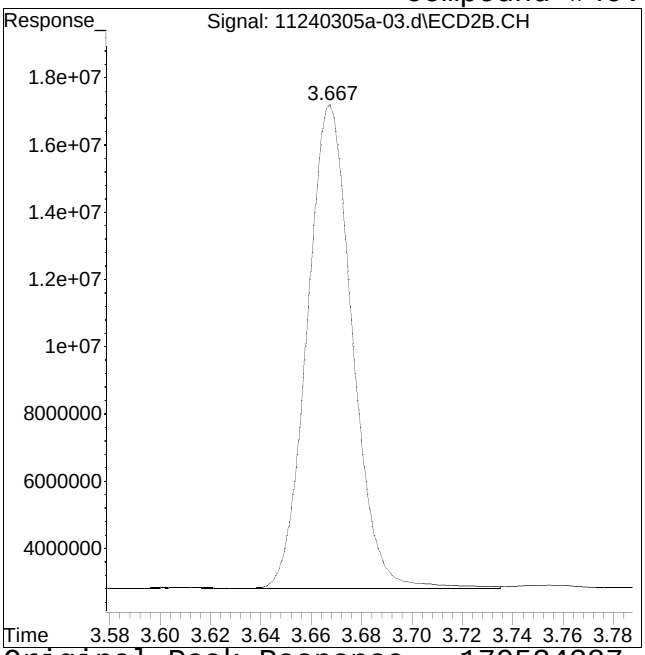
Manual Peak Response = 47867775 M4

M4 = Poor automated baseline construction.

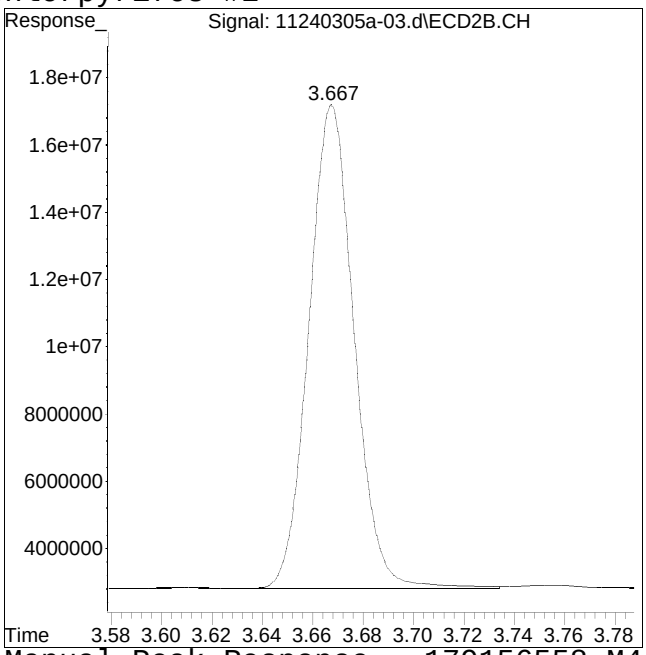
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-03.d Operator : PEST11:peg
Date Inj'd : 3/5/2024 7:24 am Instrument : Pest 11
Sample : wg1892239-1,42,,pest11430 Quant Date : 3/5/2024 7:47 am

Compound #49: Chlorpyrifos #2



Original Peak Response = 179534387

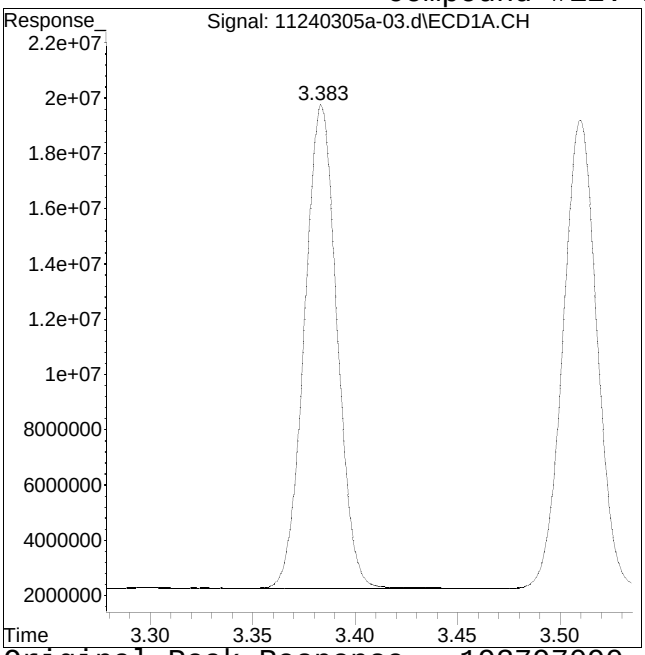


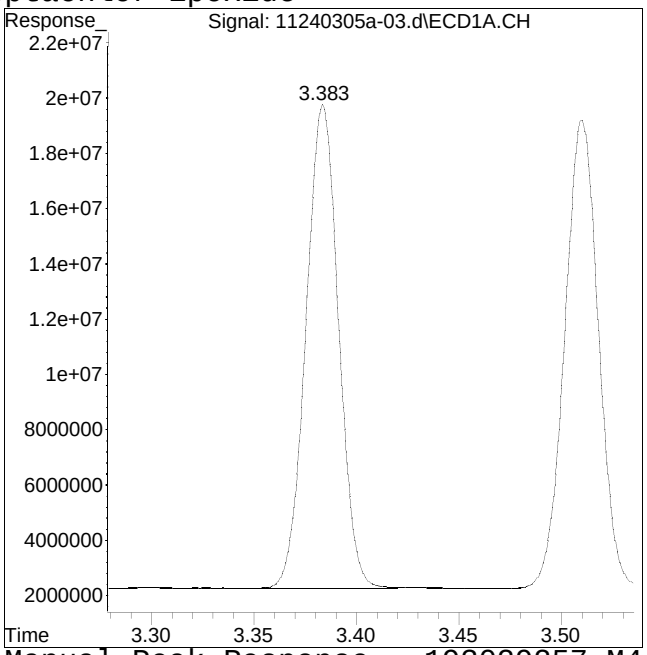
Manual Peak Response = 179156558 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-03.d Operator : PEST11:peg
Date Inj'd : 3/5/2024 7:24 am Instrument : Pest 11
Sample : wg1892239-1,42,,pest11430 Quant Date : 3/5/2024 7:47 am

Compound #12: Heptachlor Epoxide



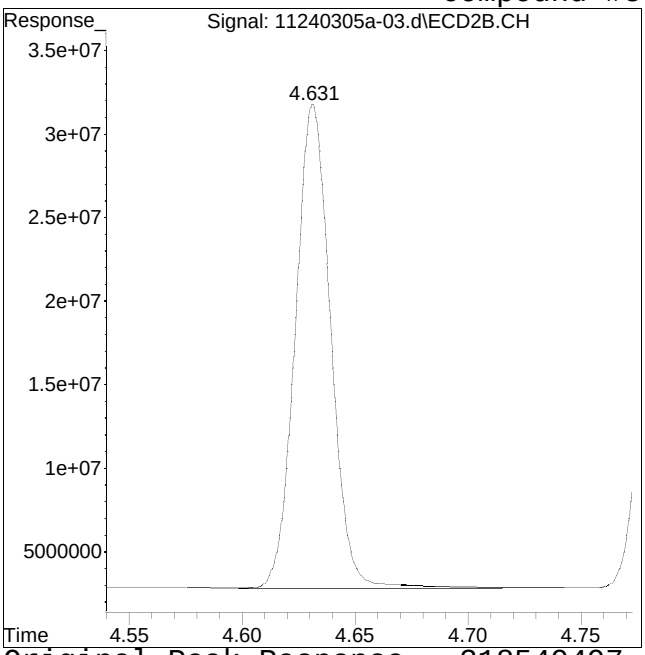


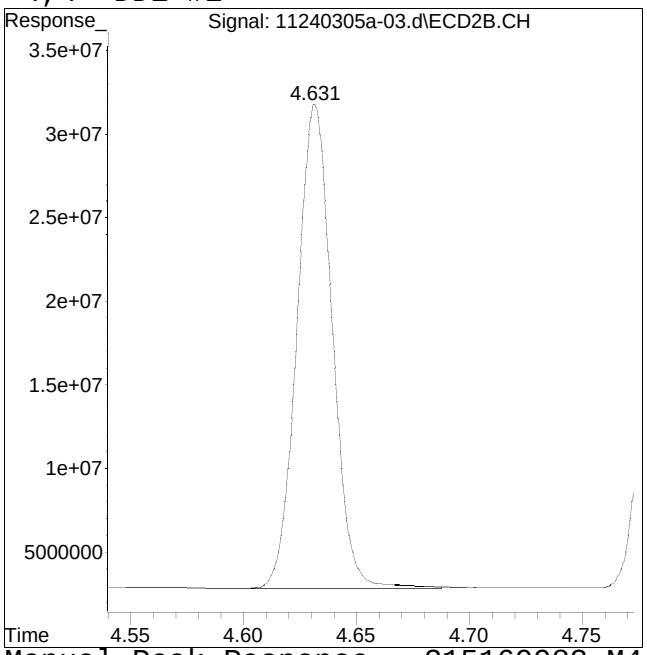
Original Peak Response = 193797090 Manual Peak Response = 193029257 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-03.d Operator : PEST11:peg
Date Inj'd : 3/5/2024 7:24 am Instrument : Pest 11
Sample : wg1892239-1,42,,pest11430 Quant Date : 3/5/2024 7:47 am

Compound #53: 4,4'-DDE #2



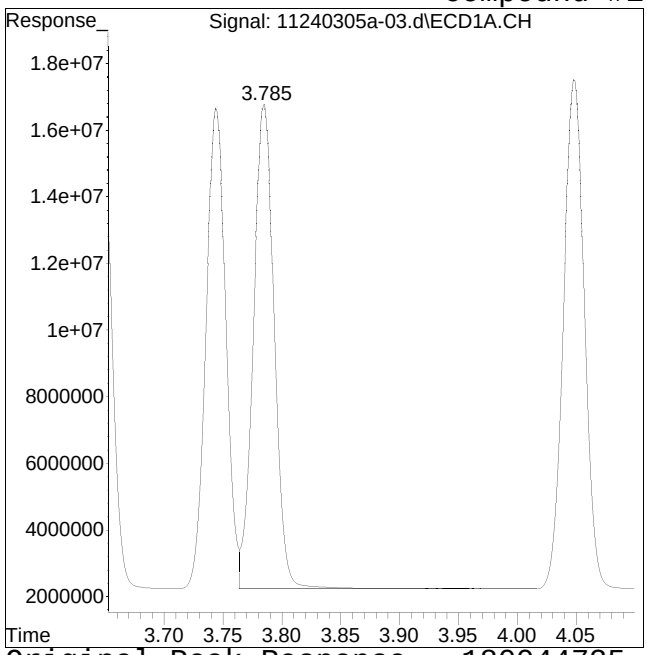


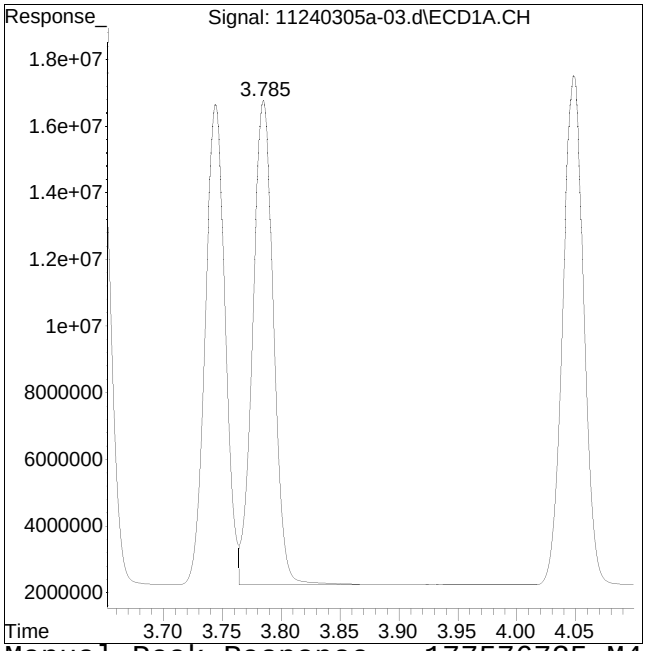
Original Peak Response = 318549497 Manual Peak Response = 315169983 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-03.d Operator : PEST11:peg
Date Inj'd : 3/5/2024 7:24 am Instrument : Pest 11
Sample : wg1892239-1,42,,pest11430 Quant Date : 3/5/2024 7:47 am

Compound #16: Endosulfan I



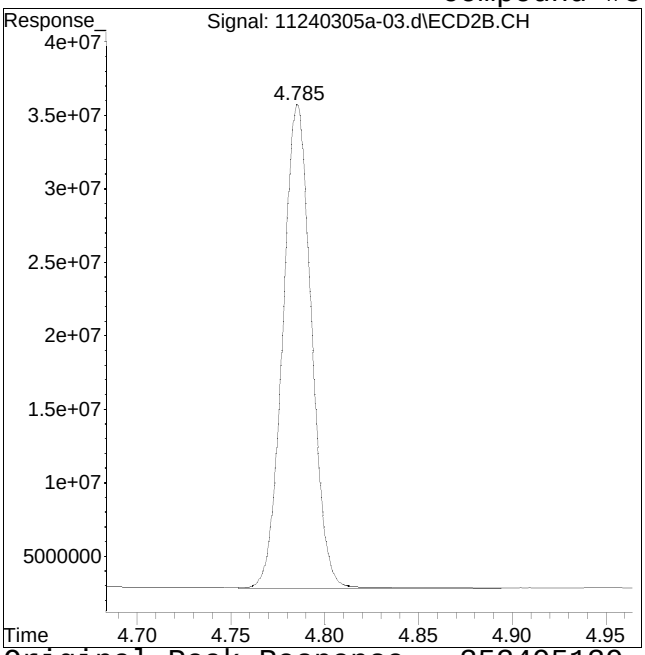


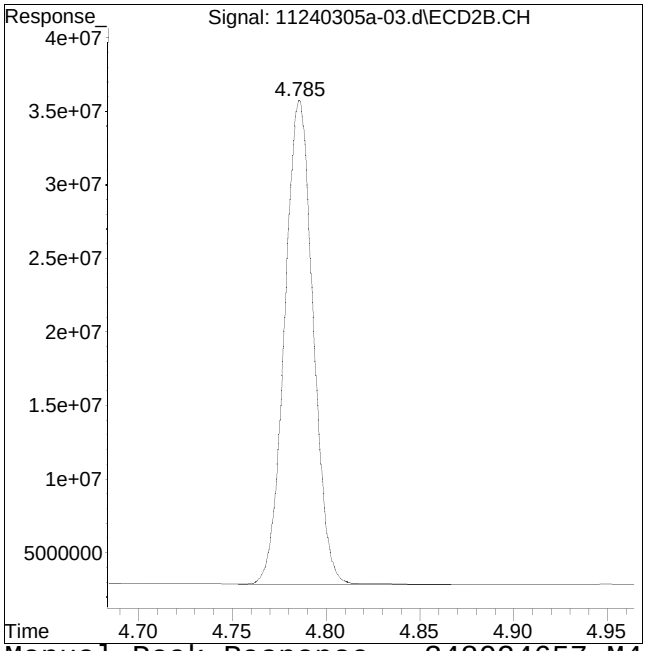
Original Peak Response = 180044735 Manual Peak Response = 177576735 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-03.d Operator : PEST11:peg
Date Inj'd : 3/5/2024 7:24 am Instrument : Pest 11
Sample : wg1892239-1,42,,pest11430 Quant Date : 3/5/2024 7:47 am

Compound #55: Dieldrin #2



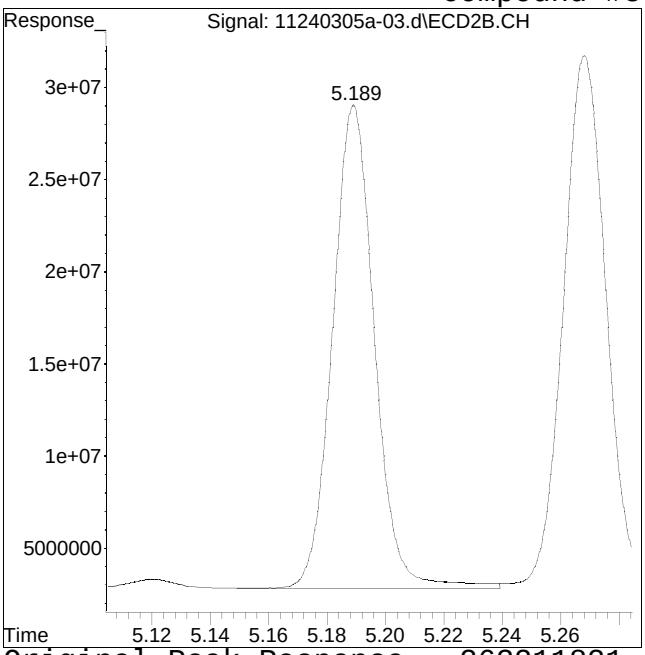


Original Peak Response = 353495139 Manual Peak Response = 348024657 M4
M4 = Poor automated baseline construction.

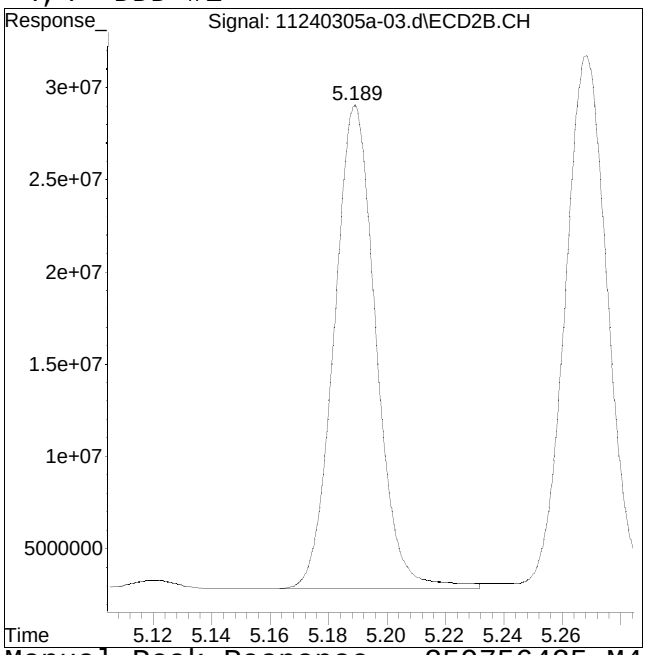
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-03.d Operator : PEST11:peg
Date Inj'd : 3/5/2024 7:24 am Instrument : Pest 11
Sample : wg1892239-1,42,,pest11430 Quant Date : 3/5/2024 7:47 am

Compound #57: 4,4'-DDD #2



Original Peak Response = 263211821



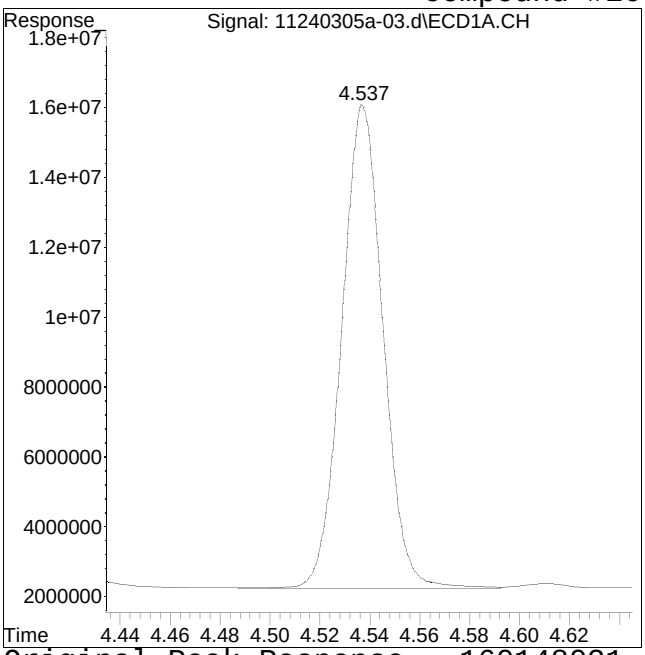
Manual Peak Response = 259756425 M4

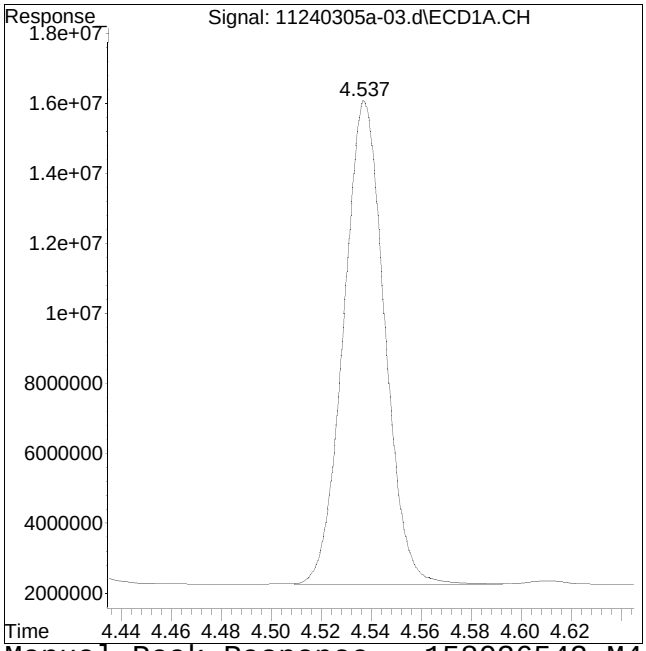
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-03.d Operator : PEST11:peg
Date Inj'd : 3/5/2024 7:24 am Instrument : Pest 11
Sample : wg1892239-1,42,,pest11430 Quant Date : 3/5/2024 7:47 am

Compound #20: Endosulfan II



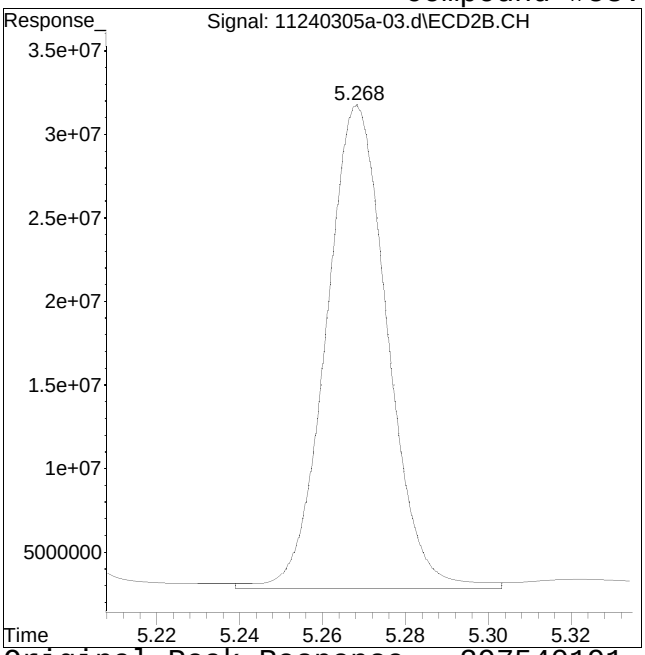


Original Peak Response = 160148021 Manual Peak Response = 158036542 M4
M4 = Poor automated baseline construction.

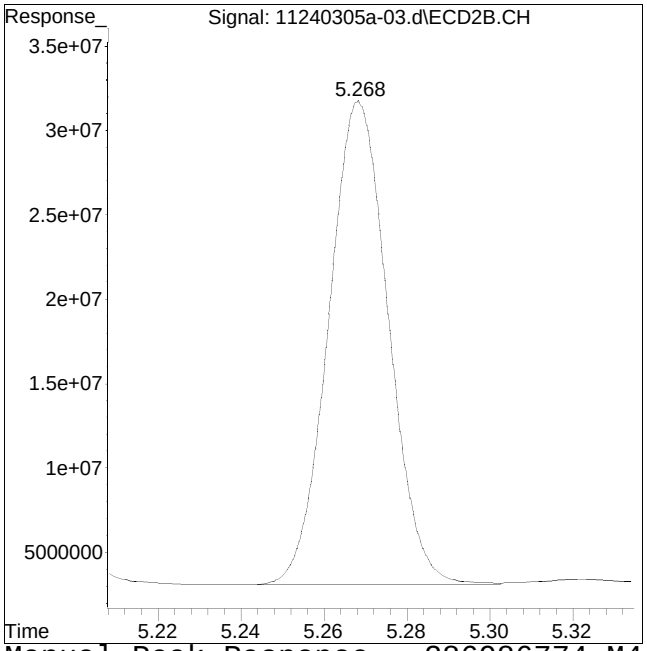
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-03.d Operator : PEST11:peg
Date Inj'd : 3/5/2024 7:24 am Instrument : Pest 11
Sample : wg1892239-1,42,,pest11430 Quant Date : 3/5/2024 7:47 am

Compound #58: Endosulfan II #2



Original Peak Response = 297540191

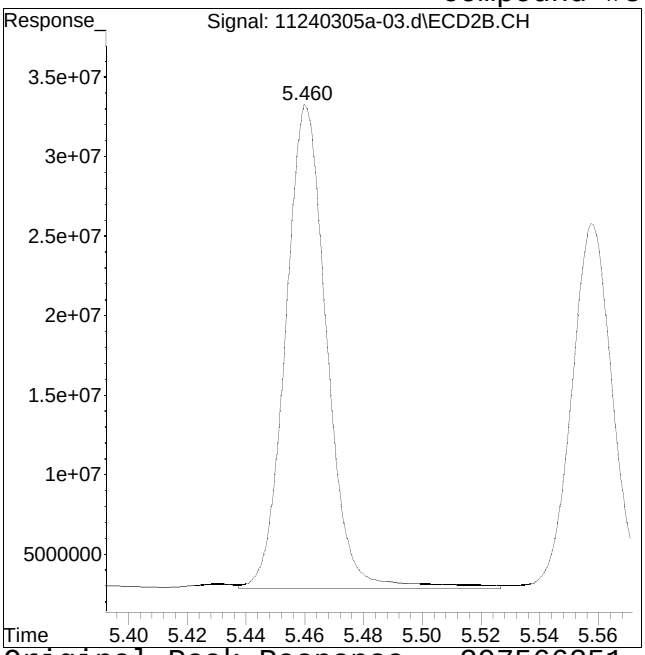


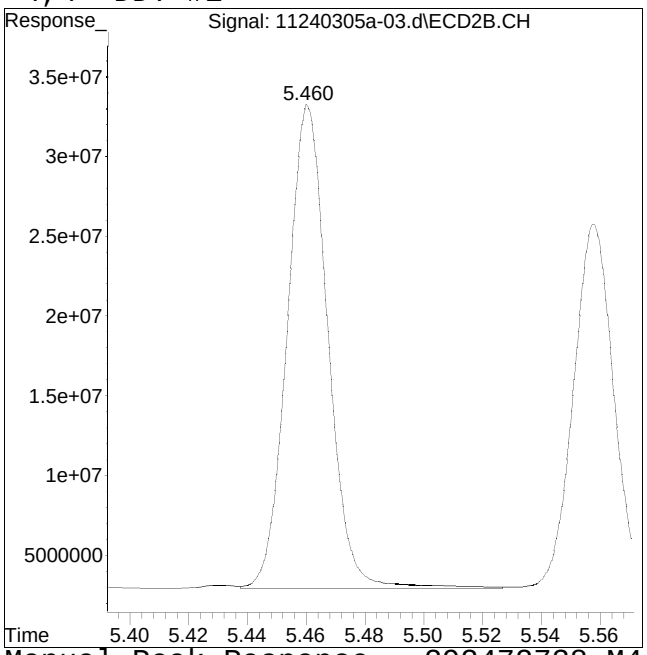
Manual Peak Response = 286986774 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-03.d Operator : PEST11:peg
Date Inj'd : 3/5/2024 7:24 am Instrument : Pest 11
Sample : wg1892239-1,42,,pest11430 Quant Date : 3/5/2024 7:47 am

Compound #59: 4,4'-DDT #2



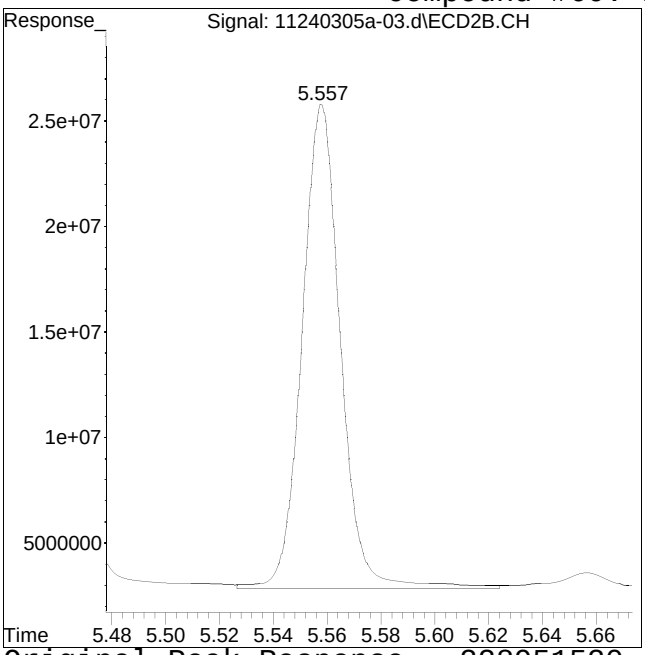


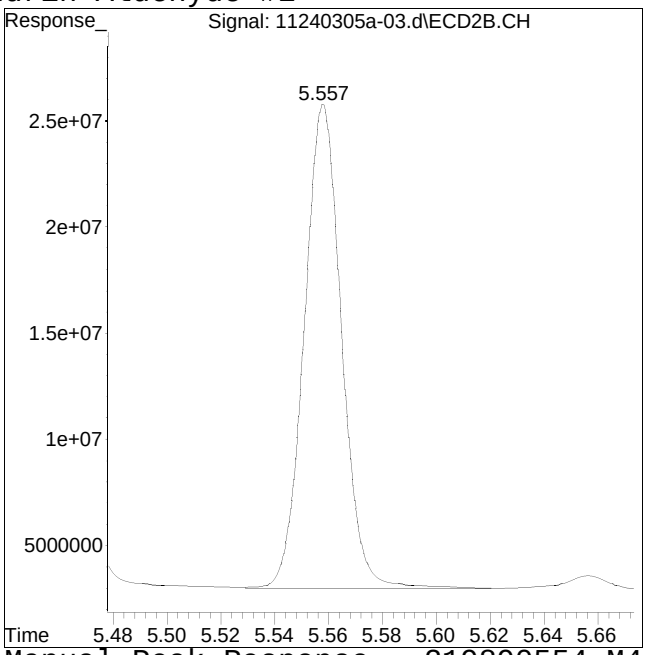
Original Peak Response = 297566251 Manual Peak Response = 292472738 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-03.d Operator : PEST11:peg
Date Inj'd : 3/5/2024 7:24 am Instrument : Pest 11
Sample : wg1892239-1,42,,pest11430 Quant Date : 3/5/2024 7:47 am

Compound #60: Endrin Aldehyde #2



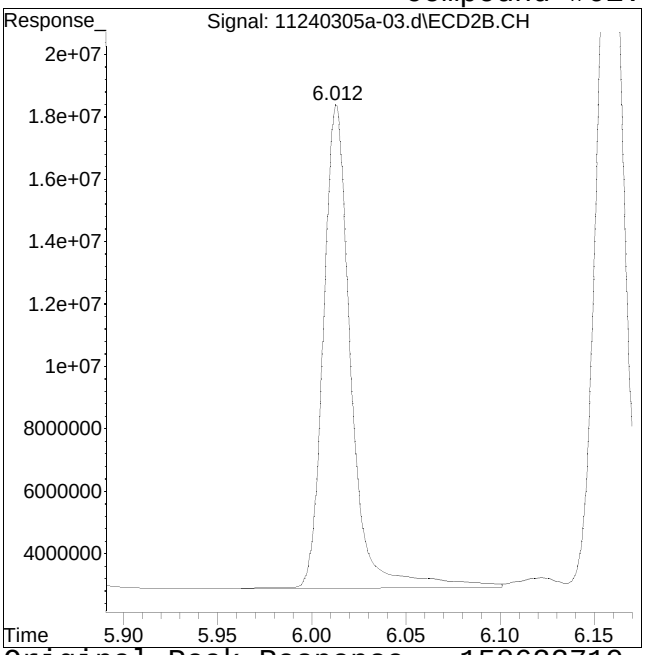


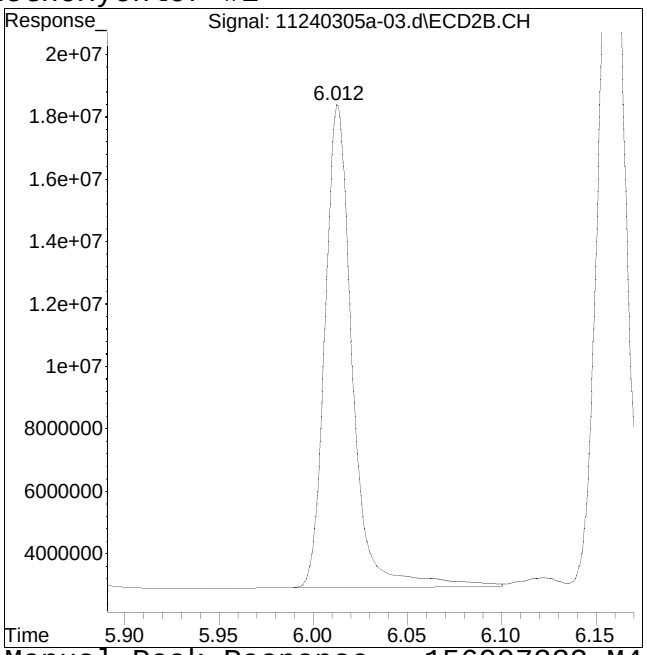
Original Peak Response = 228951520 Manual Peak Response = 219890554 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-03.d Operator : PEST11:peg
Date Inj'd : 3/5/2024 7:24 am Instrument : Pest 11
Sample : wg1892239-1,42,,pest11430 Quant Date : 3/5/2024 7:47 am

Compound #61: Methoxychlor #2



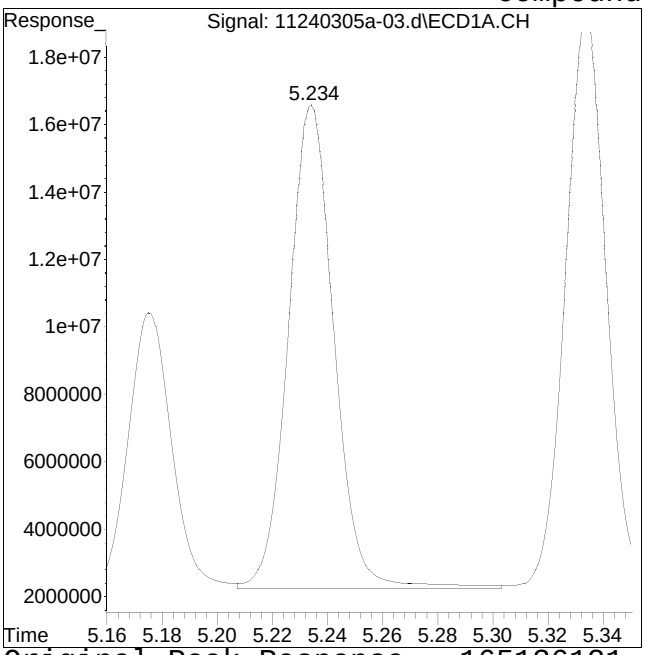


Original Peak Response = 158622710 Manual Peak Response = 156907333 M4
M4 = Poor automated baseline construction.

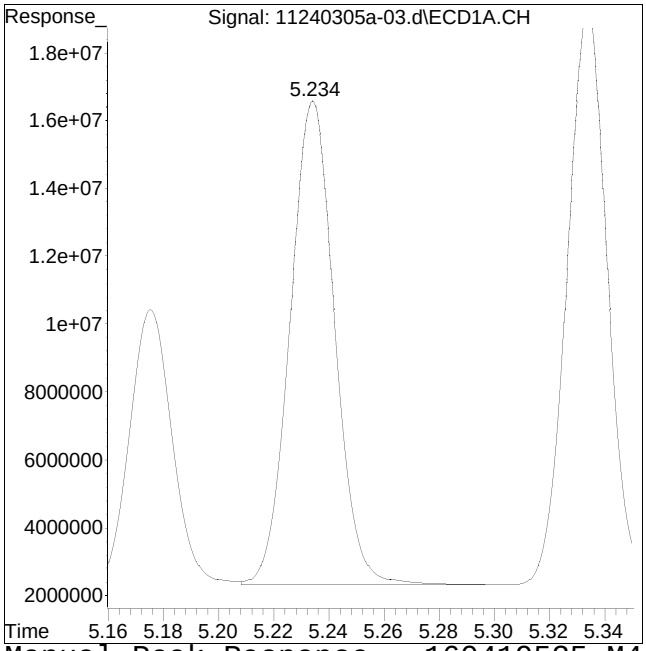
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-03.d Operator : PEST11:peg
Date Inj'd : 3/5/2024 7:24 am Instrument : Pest 11
Sample : wg1892239-1,42,,pest11430 Quant Date : 3/5/2024 7:47 am

Compound #24: Mirex



Original Peak Response = 165136121



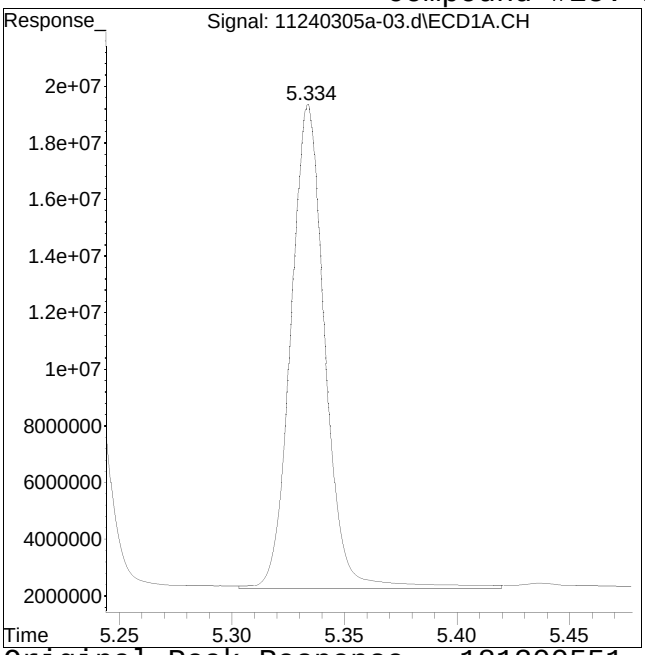
Manual Peak Response = 160419535 M4

M4 = Poor automated baseline construction.

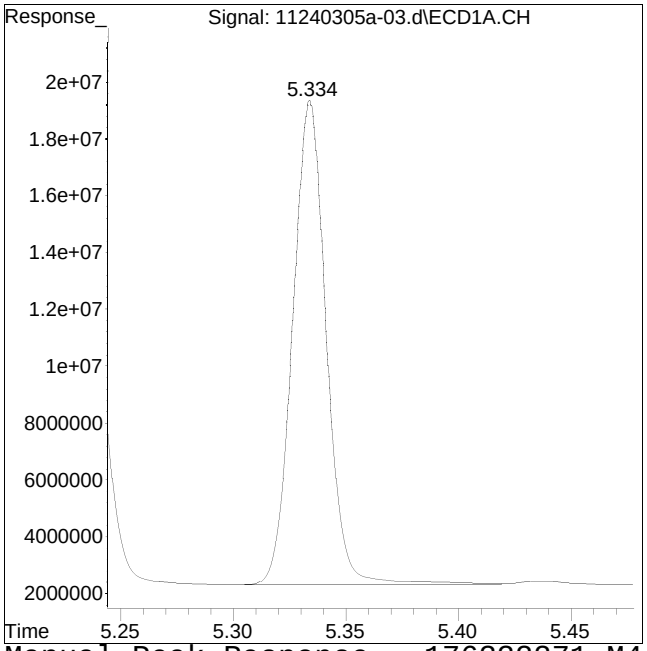
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-03.d Operator : PEST11:peg
Date Inj'd : 3/5/2024 7:24 am Instrument : Pest 11
Sample : wg1892239-1,42,,pest11430 Quant Date : 3/5/2024 7:47 am

Compound #25: Endosulfan Sulfate



Original Peak Response = 181300551



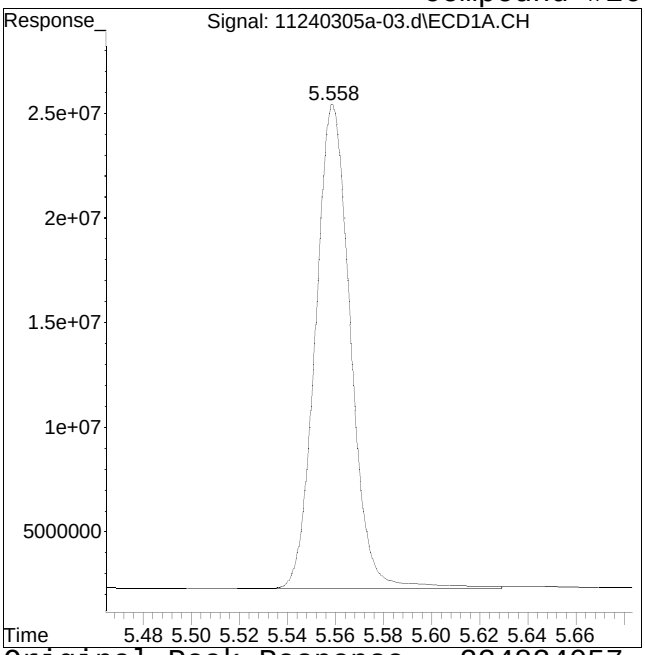
Manual Peak Response = 176332271 M4

M4 = Poor automated baseline construction.

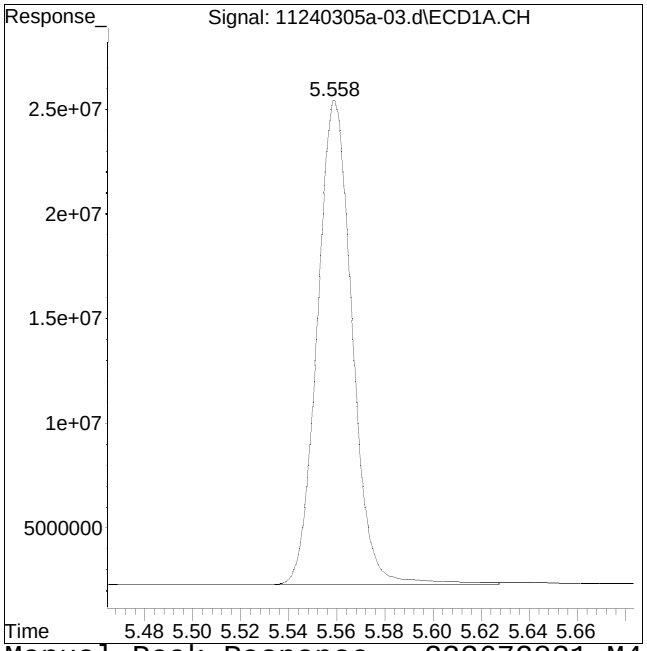
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-03.d Operator : PEST11:peg
Date Inj'd : 3/5/2024 7:24 am Instrument : Pest 11
Sample : wg1892239-1,42,,pest11430 Quant Date : 3/5/2024 7:47 am

Compound #26: Endrin Ketone



Original Peak Response = 234824057



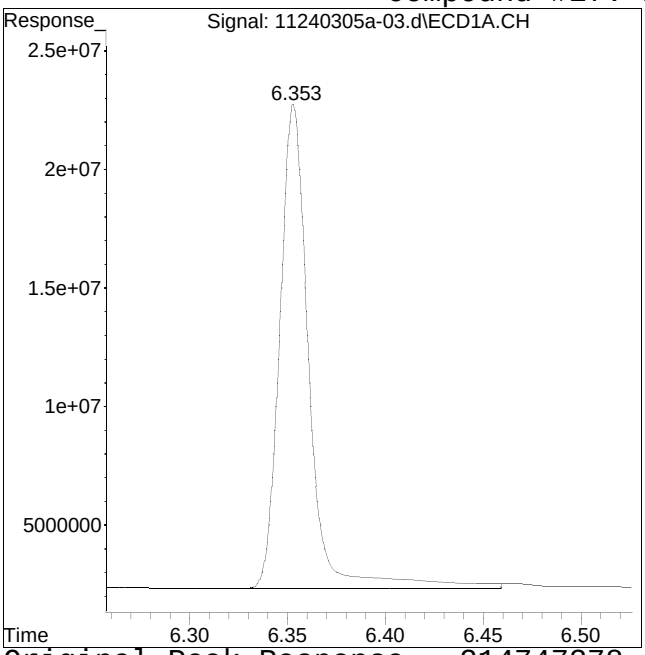
Manual Peak Response = 233672831 M4

M4 = Poor automated baseline construction.

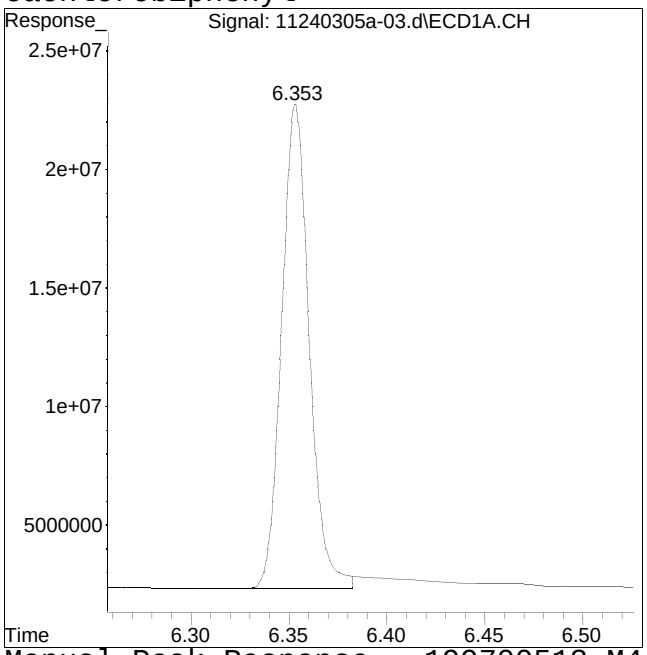
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-03.d Operator : PEST11:peg
Date Inj'd : 3/5/2024 7:24 am Instrument : Pest 11
Sample : wg1892239-1,42,,pest11430 Quant Date : 3/5/2024 7:47 am

Compound #27: Decachlorobiphenyl



Original Peak Response = 214747378



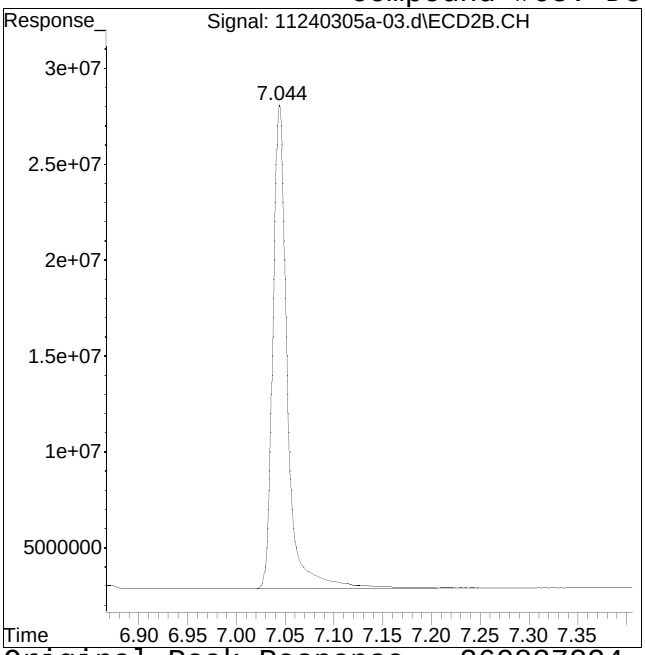
Manual Peak Response = 199700513 M4

M4 = Poor automated baseline construction.

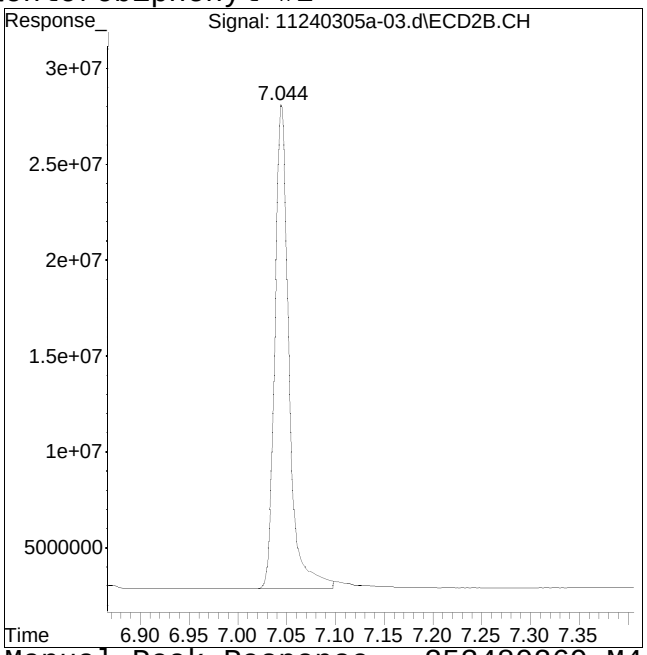
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-03.d Operator : PEST11:peg
Date Inj'd : 3/5/2024 7:24 am Instrument : Pest 11
Sample : wg1892239-1,42,,pest11430 Quant Date : 3/5/2024 7:47 am

Compound #65: Decachlorobiphenyl #2



Original Peak Response = 260827224



Manual Peak Response = 253480269 M4

M4 = Poor automated baseline construction.

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest11\2024\240305A\
Data File : 11240305a-04.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 05 Mar 2024   7:36 am
Operator : PEST11:peg
Sample   : wg1892239-2,42,,chlor11437 (Sig #1); chlor11437 (Sig #2)
Misc   : wg1892239,,ical20697
ALS Vial : 4 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 05 07:49:06 2024
Quant Method : I:\PEST\Pest11\2024\240305A\pest11_12_19_23_ugL_ICAL20697.M
Quant Title : pest
QLast Update : Tue Mar 05 07:49:18 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
28	i	1-br-2-nb_Chlordane	^	1.000	1.000	0.0	96	0.00
29	l1	chlordane-1		*1000.000	1040.537	-4.1	100	0.00
30	l1	chlordane-3		*1000.000	1110.791	-11.1	102	0.00
31	l1	chlordane-4		*1000.000	1052.074	-5.2	100	0.00
32	l1	chlordane-5		*1000.000	1178.334	-17.8	111	0.00

Signal #2

28	i	1-br-2-nb_Chlordane	^	1.000	1.000	0.0	105	0.00
29	l1	chlordane-1		*1000.000	1162.426	-16.2	121	0.00
30	l1	chlordane-3		*1000.000	1148.887	-14.9	114	0.00
31	l1	chlordane-4		*1000.000	1233.500	-23.4#	128	0.00
32	l1	chlordane-5		*1000.000	1192.166	-19.2	124	0.00

Evaluate Continuing Calibration Report - Not Founds

1	i	1-br-2-nb_Pesticides	^	1.000	1.000	0.0	0	-1.35#
2	s	2,4,5,6-Tetrachloro-m-xylen		0.958	0.000	100.0#	0#	-1.70#
3	t	Hexachlorobenzene		1.110	0.000	100.0#	0#	-1.92#
4	t	alpha-BHC		1.338	0.000	100.0#	0#	-2.02#
5	t	gamma-BHC (lindane)		1.278	0.000	100.0#	0#	-2.23#
6	t	beta-BHC	*	50.000	0.000	100.0#	0	-2.28#
7	t	delta-BHC		1.294	0.000	100.0#	0#	-2.42#
8	t	Heptachlor		1.309	0.000	100.0#	0#	-2.58#
9	t	Aldrin		1.187	0.000	100.0#	0#	-2.83#
10	t	Alachlor		0.192	0.000	100.0#	0#	-2.95#
11	t	Chlorpyrifos	*	50.000	0.000	100.0#	0	-3.04#
12	t	Heptachlor Epoxide		1.198	0.000	100.0#	0#	-3.38#
13	t	gamma-Chlordane (trans)		1.091	0.000	100.0#	0#	-3.51#

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest11\2024\240305A\
Data File : 11240305a-04.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 05 Mar 2024   7:36 am
Operator : PEST11:peg
Sample   : wg1892239-2,42,,chlor11437 (Sig #1); chlor11437 (Sig #2)
Misc   : wg1892239,,ical20697
ALS Vial : 4 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 05 07:49:06 2024
Quant Method : I:\PEST\Pest11\2024\240305A\pest11_12_19_23_ugL_ICAL20697.M
Quant Title : pest
QLast Update : Tue Mar 05 07:49:18 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
14	t	alpha-Chlordane (cis)		1.241	0.000	100.0#	0#	-3.65#
15	t	4,4'-DDE		1.126	0.000	100.0#	0#	-3.74#
16	t	Endosulfan I		1.172	0.000	100.0#	0#	-3.78#
17	t	Dieldrin		1.168	0.000	100.0#	0#	-4.05#
18	t	Endrin		1.186	0.000	100.0#	0#	-4.30#
19	t	4,4'-DDD		0.934	0.000	100.0#	0#	-4.41#
20	t	Endosulfan II		1.095	0.000	100.0#	0#	-4.54#
21	t	4,4'-DDT		1.111	0.000	100.0#	0#	-4.70#
22	t	Endrin Aldehyde	*	50.000	0.000	100.0#	0	-4.95#
23	t	Methoxychlor	*	50.000	0.000	100.0#	0	-5.18#
24	t	Mirex	*	50.000	0.000	100.0#	0	-5.23#
25	t	Endosulfan Sulfate		1.076	0.000	100.0#	0#	-5.33#
26	t	Endrin Ketone		1.215	0.000	100.0#	0#	-5.56#
27	s	Decachlorobiphenyl	*	50.000	0.000	100.0#	0	-6.35#
33	i	1-br-2-nb_Toxaphene	^	1.000	1.000	0.0	0	-1.35#
34	l2	toxaphene-2		0.059	0.000	100.0#	0#	-4.53#
35	l2	toxaphene-3		0.043	0.000	100.0#	0#	-4.65#
36	l2	toxaphene-4		0.050	0.000	100.0#	0#	-4.87#
37	l2	toxaphene-5		0.045	0.000	100.0#	0#	-5.24#

Signal #2

1	i	1-br-2-nb_Pesticides	^	1.000	1.000	0.0	0	-1.45#
2	s	2,4,5,6-Tetrachloro-m-xyl		0.995	0.000	100.0#	0#	-1.95#
3	t	Hexachlorobenzene	*	50.000	0.000	100.0#	0	-2.28#
4	t	alpha-BHC		1.388	0.000	100.0#	0#	-2.38#
5	t	gamma-BHC (lindane)		1.315	0.000	100.0#	0#	-2.68#
6	t	beta-BHC	*	50.000	0.000	100.0#	0	-2.75#
7	t	delta-BHC		1.309	0.000	100.0#	0#	-3.03#

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest11\2024\240305A\
Data File : 11240305a-04.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 05 Mar 2024   7:36 am
Operator : PEST11:peg
Sample   : wg1892239-2,42,,chlor11437 (Sig #1); chlor11437 (Sig #2)
Misc   : wg1892239,,ical20697
ALS Vial : 4 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 05 07:49:06 2024
Quant Method : I:\PEST\Pest11\2024\240305A\pest11_12_19_23_ugL_ICAL20697.M
Quant Title : pest
QLast Update : Tue Mar 05 07:49:18 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
8	t	Heptachlor		1.356	0.000	100.0#	0#	-3.10#
9	t	Aldrin		1.227	0.000	100.0#	0#	-3.43#
10	t	Alachlor	*	50.000	0.000	100.0#	0	-3.30#
11	t	Chlorpyrifos	*	50.000	0.000	100.0#	0	-3.67#
12	t	Heptachlor Epoxide	*	50.000	0.000	100.0#	0	-4.06#
13	t	gamma-Chlordane (trans)		1.105	0.000	100.0#	0#	-4.28#
14	t	alpha-Chlordane (cis)	*	50.000	0.000	100.0#	0	-4.45#
15	t	4,4'-DDE		1.127	0.000	100.0#	0#	-4.63#
16	t	Endosulfan I		1.127	0.000	100.0#	0#	-4.51#
17	t	Dieldrin		1.127	0.000	100.0#	0#	-4.79#
18	t	Endrin		1.130	0.000	100.0#	0#	-5.08#
19	t	4,4'-DDD		0.897	0.000	100.0#	0#	-5.19#
20	t	Endosulfan II		1.018	0.000	100.0#	0#	-5.27#
21	t	4,4'-DDT	*	50.000	0.000	100.0#	0	-5.46#
22	t	Endrin Aldehyde	*	50.000	0.000	100.0#	0	-5.56#
23	t	Methoxychlor	*	50.000	0.000	100.0#	0	-6.01#
24	t	Mirex	*	50.000	0.000	100.0#	0	-6.16#
25	t	Endosulfan Sulfate		0.994	0.000	100.0#	0#	-5.78#
26	t	Endrin Ketone		1.068	0.000	100.0#	0#	-6.19#
27	s	Decachlorobiphenyl	*	50.000	0.000	100.0#	0	-7.04#
33	i	1-br-2-nb_Toxaphene	^	1.000	1.000	0.0	0	-1.45#
34	l2	toxaphene-2		0.022	0.000	100.0#	0#	-5.23#
35	l2	toxaphene-3		0.033	0.000	100.0#	0#	-5.26#
36	l2	toxaphene-4		0.038	0.000	100.0#	0#	-5.57#
37	l2	toxaphene-5		0.036	0.000	100.0#	0#	-5.97#

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0
(^) = ISTD area calculated using ICAL average

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240305A\
Data File : 11240305a-04.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 05 Mar 2024 7:36 am
Operator : PEST11:peg
Sample : wg1892239-2,42,,chlor11437 (Sig #1); chlor11437 (Sig #2)
Misc : wg1892239,,ical20697
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 05 07:49:06 2024
Quant Method : I:\PEST\Pest11\2024\240305A\pest11_12_19_23_ugL_ICAL20697.M
Quant Title : pest
QLast Update : Tue Mar 05 07:49:18 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	1.352	1.452	86565385	129.7E6	25.000M4	25.000M4
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
	Target Compounds						
3) t	Hexachlorobe	0.000	0.000	0	0	N.D. d	N.D. d
4) t	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5) t	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6) t	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7) t	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8) t	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9) t	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10) t	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11) t	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12) t	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13) t	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14) t	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15) t	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17) t	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18) t	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19) t	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21) t	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22) t	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240305A\
Data File : 11240305a-04.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 05 Mar 2024 7:36 am
Operator : PEST11:peg
Sample : wg1892239-2,42,,chlor11437 (Sig #1); chlor11437 (Sig #2)
Misc : wg1892239,,ical20697
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 05 07:49:06 2024
Quant Method : I:\PEST\Pest11\2024\240305A\pest11_12_19_23_ugL_ICAL20697.M
Quant Title : pest
QLast Update : Tue Mar 05 07:49:18 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l	
23) t	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d	
24) t	Mirex	0.000	0.000	0	0	N.D. d	N.D. d	
25) t	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d	
26) t	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d	
29) l1	chlordane-1	2.518	2.956	131.4E6	206.9E6	1040.537	1162.426	
30) l1	chlordane-3	2.945	3.585	157.8E6	213.9E6	1110.791	1148.887	
31) l1	chlordane-4	3.512	4.285	542.7E6	831.7E6	1052.074	1233.500	
32) l1	chlordane-5	3.637	4.447	937.5E6	630.7E6	1178.334	1192.166	
Sum	chlordane-1			1769.4E6	1883.2E6	N.D.	N.D.	D
Average	chlordane-1					1095.434	1184.245	
34) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d	
35) l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d	
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d	
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d	
Sum	toxaphene-2			0	0	N.D.	N.D.	
Average	toxaphene-2					0.000	0.000	

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-2			0	0	N.D.	N.D.	
Average	toxaphene-2					0.000	0.000	

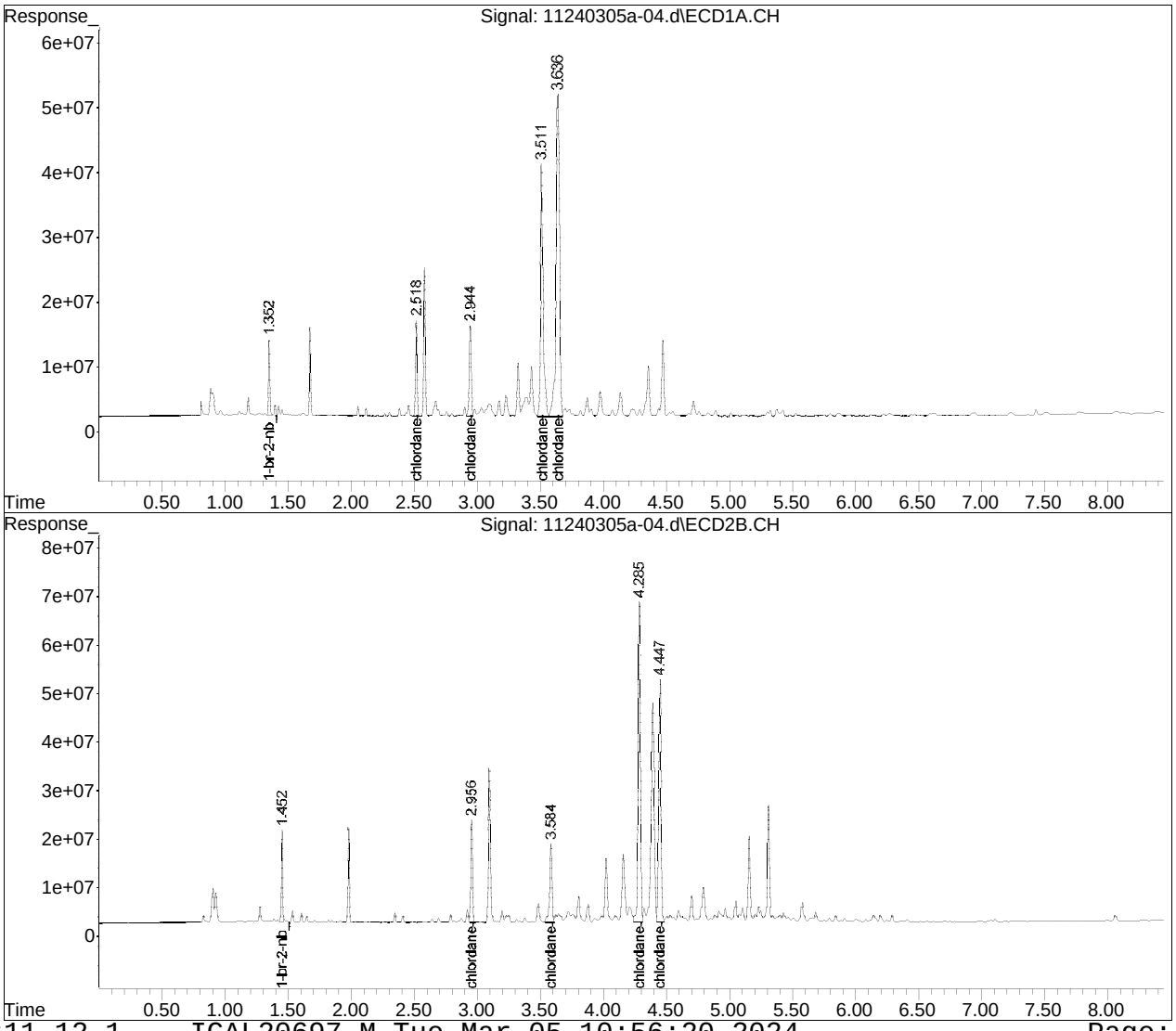
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest11\2024\240305A\
Data File : 11240305a-04.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 05 Mar 2024 7:36 am
Operator : PEST11:peg
Sample : wg1892239-2,42,,chlor11437 (Sig #1); chlor11437 (Sig #2)
Misc : wg1892239,,ical20697
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 05 07:49:06 2024
Quant Method : I:\PEST\Pest11\2024\240305A\pest11_12_19_23_ugL_ICAL20697.M
Quant Title : pest
QLast Update : Tue Mar 05 07:49:18 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

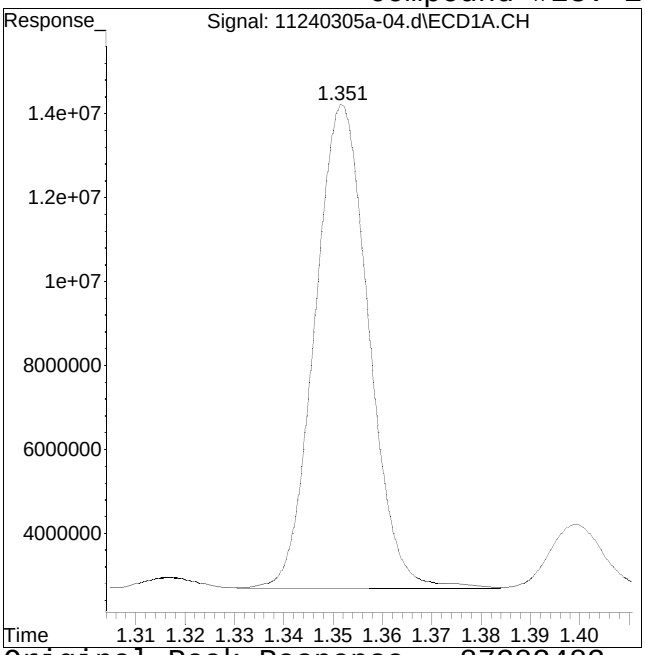
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



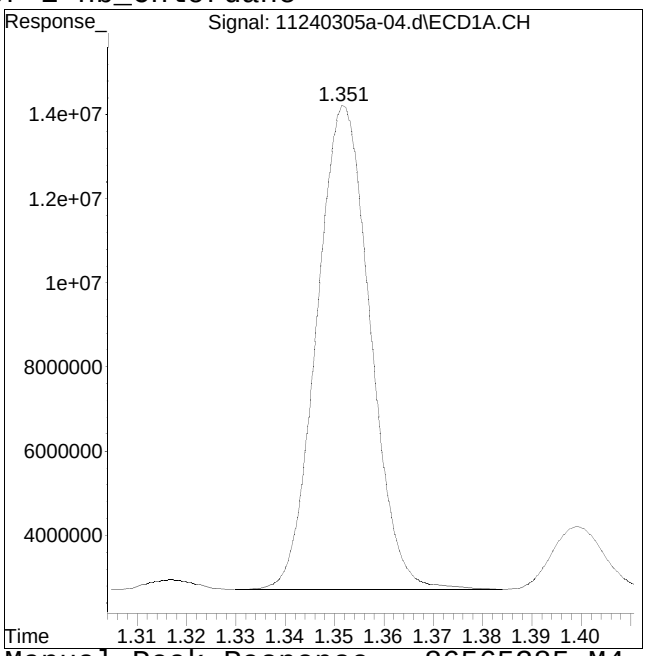
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-04.d Operator : PEST11:peg
Date Inj'd : 3/5/2024 7:36 am Instrument : Pest 11
Sample : wg1892239-2,42,,chlor11437Quant Date : 3/5/2024 7:49 am

Compound #28: 1-br-2-nb_Chlordane



Original Peak Response = 87383483



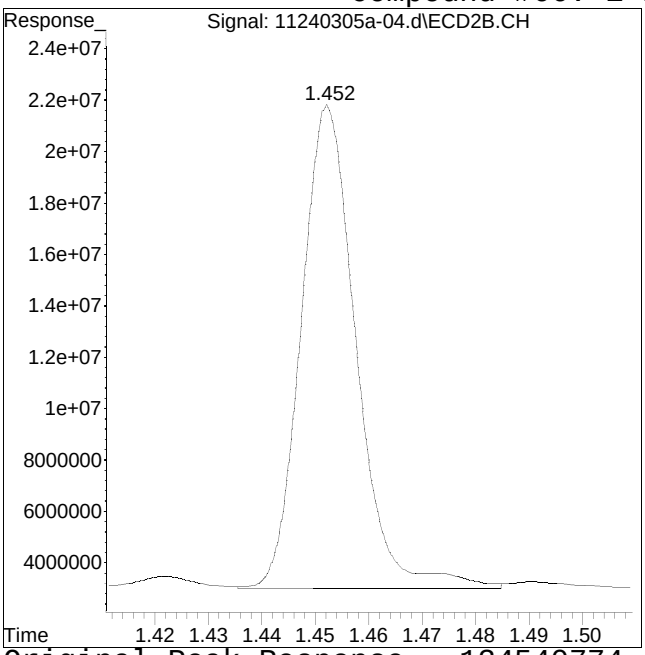
Manual Peak Response = 86565385 M4

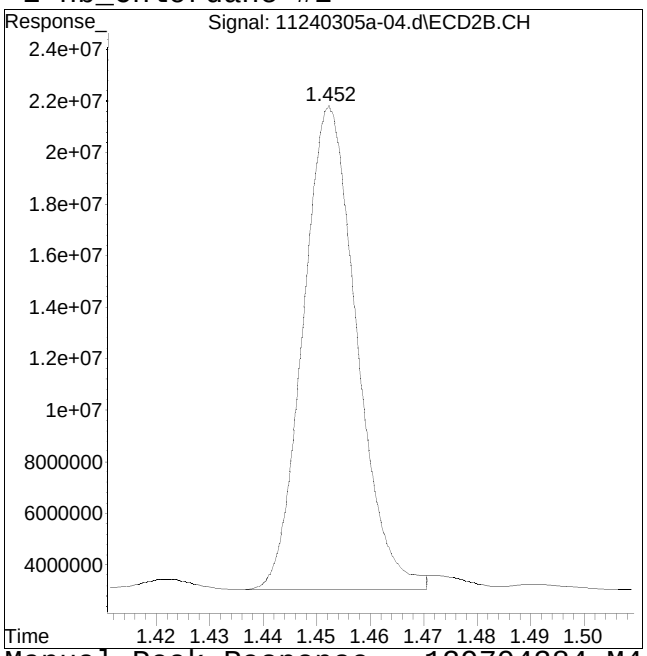
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-04.d Operator : PEST11:peg
Date Inj'd : 3/5/2024 7:36 am Instrument : Pest 11
Sample : wg1892239-2,42,,chlor11437Quant Date : 3/5/2024 7:49 am

Compound #66: 1-br-2-nb_Chlordane #2





Original Peak Response = 134540774 Manual Peak Response = 129704384 M4
M4 = Poor automated baseline construction.

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest11\2024\240305A\
Data File : 11240305a-05.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 05 Mar 2024   7:48 am
Operator : PEST11:peg
Sample   : wg1892239-3,42,,tox11438 (Sig #1); tox11438 (Sig #2)
Misc   : wg1892239,,ical20697
ALS Vial : 5 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 05 08:15:13 2024
Quant Method : I:\PEST\Pest11\2024\240305A\pest11_12_19_23_ugL_ICAL20697.M
Quant Title : pest
QLast Update : Tue Mar 05 08:15:24 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
33	i	1-br-2-nb_Toxaphene	^	1.000	1.000	0.0	108	0.00
34	l2	toxaphene-2		0.059	0.054	8.5	92	0.00
35	l2	toxaphene-3		0.043	0.037	14.0	88	0.00
36	l2	toxaphene-4		0.050	0.041	18.0	87	0.00
37	l2	toxaphene-5		0.045	0.043	4.4	99	0.00

Signal #2

33	i	1-br-2-nb_Toxaphene	^	1.000	1.000	0.0	117	0.00
34	l2	toxaphene-2		0.022	0.025	-13.6	128	0.00
35	l2	toxaphene-3		0.033	0.036	-9.1	125	0.00
36	l2	toxaphene-4		0.038	0.036	5.3	107	0.00
37	l2	toxaphene-5		0.036	0.040	-11.1	127	0.00

Evaluate Continuing Calibration Report - Not Founds

1	i	1-br-2-nb_Pesticides	^	1.000	1.000	0.0	0	-1.35#
2	s	2,4,5,6-Tetrachloro-m-xylen		0.958	0.000	100.0#	0#	-1.70#
3	t	Hexachlorobenzene		1.110	0.000	100.0#	0#	-1.92#
4	t	alpha-BHC		1.338	0.000	100.0#	0#	-2.02#
5	t	gamma-BHC (lindane)		1.278	0.000	100.0#	0#	-2.23#
6	t	beta-BHC	*	50.000	0.000	100.0#	0	-2.28#
7	t	delta-BHC		1.294	0.000	100.0#	0#	-2.42#
8	t	Heptachlor		1.309	0.000	100.0#	0#	-2.58#
9	t	Aldrin		1.187	0.000	100.0#	0#	-2.83#
10	t	Alachlor		0.192	0.000	100.0#	0#	-2.95#
11	t	Chlorpyrifos	*	50.000	0.000	100.0#	0	-3.04#
12	t	Heptachlor Epoxide		1.198	0.000	100.0#	0#	-3.38#
13	t	gamma-Chlordane (trans)		1.091	0.000	100.0#	0#	-3.51#

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest11\2024\240305A\
Data File : 11240305a-05.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 05 Mar 2024   7:48 am
Operator : PEST11:peg
Sample   : wg1892239-3,42,,tox11438 (Sig #1); tox11438 (Sig #2)
Misc   : wg1892239,,ical20697
ALS Vial : 5 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 05 08:15:13 2024
Quant Method : I:\PEST\Pest11\2024\240305A\pest11_12_19_23_ugL_ICAL20697.M
Quant Title : pest
QLast Update : Tue Mar 05 08:15:24 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
14	t	alpha-Chlordane (cis)		1.241	0.000	100.0#	0#	-3.65#
15	t	4,4'-DDE		1.126	0.000	100.0#	0#	-3.74#
16	t	Endosulfan I		1.172	0.000	100.0#	0#	-3.78#
17	t	Dieldrin		1.168	0.000	100.0#	0#	-4.05#
18	t	Endrin		1.186	0.000	100.0#	0#	-4.30#
19	t	4,4'-DDD		0.934	0.000	100.0#	0#	-4.41#
20	t	Endosulfan II		1.095	0.000	100.0#	0#	-4.54#
21	t	4,4'-DDT		1.111	0.000	100.0#	0#	-4.70#
22	t	Endrin Aldehyde	*	50.000	0.000	100.0#	0	-4.95#
23	t	Methoxychlor	*	50.000	0.000	100.0#	0	-5.18#
24	t	Mirex	*	50.000	0.000	100.0#	0	-5.23#
25	t	Endosulfan Sulfate		1.076	0.000	100.0#	0#	-5.33#
26	t	Endrin Ketone		1.215	0.000	100.0#	0#	-5.56#
27	s	Decachlorobiphenyl	*	50.000	0.000	100.0#	0	-6.35#
28	i	1-br-2-nb_Chlordane	^	1.000	1.000	0.0	0	-1.35#
29	l1	chlordane-1	*	1000.000	0.000	100.0#	0	-2.52#
30	l1	chlordane-3	*	1000.000	0.000	100.0#	0	-2.94#
31	l1	chlordane-4	*	1000.000	0.000	100.0#	0	-3.51#
32	l1	chlordane-5	*	1000.000	0.000	100.0#	0	-3.64#

Signal #2

1	i	1-br-2-nb_Pesticides	^	1.000	1.000	0.0	0	-1.45#
2	s	2,4,5,6-Tetrachloro-m-xyl		0.995	0.000	100.0#	0#	-1.95#
3	t	Hexachlorobenzene	*	50.000	0.000	100.0#	0	-2.28#
4	t	alpha-BHC		1.388	0.000	100.0#	0#	-2.38#
5	t	gamma-BHC (lindane)		1.315	0.000	100.0#	0#	-2.68#
6	t	beta-BHC	*	50.000	0.000	100.0#	0	-2.75#
7	t	delta-BHC		1.309	0.000	100.0#	0#	-3.03#

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest11\2024\240305A\
Data File : 11240305a-05.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 05 Mar 2024   7:48 am
Operator : PEST11:peg
Sample   : wg1892239-3,42,,tox11438 (Sig #1); tox11438 (Sig #2)
Misc   : wg1892239,,ical20697
ALS Vial : 5 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 05 08:15:13 2024
Quant Method : I:\PEST\Pest11\2024\240305A\pest11_12_19_23_ugL_ICAL20697.M
Quant Title : pest
QLast Update : Tue Mar 05 08:15:24 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
8	t	Heptachlor		1.356	0.000	100.0#	0#	-3.10#
9	t	Aldrin		1.227	0.000	100.0#	0#	-3.43#
10	t	Alachlor	*	50.000	0.000	100.0#	0	-3.30#
11	t	Chlorpyrifos	*	50.000	0.000	100.0#	0	-3.67#
12	t	Heptachlor Epoxide	*	50.000	0.000	100.0#	0	-4.06#
13	t	gamma-Chlordane (trans)		1.105	0.000	100.0#	0#	-4.28#
14	t	alpha-Chlordane (cis)	*	50.000	0.000	100.0#	0	-4.45#
15	t	4,4'-DDE		1.127	0.000	100.0#	0#	-4.63#
16	t	Endosulfan I		1.127	0.000	100.0#	0#	-4.51#
17	t	Dieldrin		1.127	0.000	100.0#	0#	-4.79#
18	t	Endrin		1.130	0.000	100.0#	0#	-5.08#
19	t	4,4'-DDD		0.897	0.000	100.0#	0#	-5.19#
20	t	Endosulfan II		1.018	0.000	100.0#	0#	-5.27#
21	t	4,4'-DDT	*	50.000	0.000	100.0#	0	-5.46#
22	t	Endrin Aldehyde	*	50.000	0.000	100.0#	0	-5.56#
23	t	Methoxychlor	*	50.000	0.000	100.0#	0	-6.01#
24	t	Mirex	*	50.000	0.000	100.0#	0	-6.16#
25	t	Endosulfan Sulfate		0.994	0.000	100.0#	0#	-5.78#
26	t	Endrin Ketone		1.068	0.000	100.0#	0#	-6.19#
27	s	Decachlorobiphenyl	*	50.000	0.000	100.0#	0	-7.04#
28	i	1-br-2-nb_Chlordane	^	1.000	1.000	0.0	0	-1.45#
29	l1	chlordane-1	*	1000.000	0.000	100.0#	0	-2.96#
30	l1	chlordane-3	*	1000.000	0.000	100.0#	0	-3.58#
31	l1	chlordane-4	*	1000.000	0.000	100.0#	0	-4.29#
32	l1	chlordane-5	*	1000.000	0.000	100.0#	0	-4.45#

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0
(^) = ISTD area calculated using ICAL average

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240305A\
Data File : 11240305a-05.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 05 Mar 2024 7:48 am
Operator : PEST11:peg
Sample : wg1892239-3,42,,tox11438 (Sig #1); tox11438 (Sig #2)
Misc : wg1892239,,ical20697
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 05 08:15:13 2024
Quant Method : I:\PEST\Pest11\2024\240305A\pest11_12_19_23_ugL_ICAL20697.M
Quant Title : pest
QLast Update : Tue Mar 05 08:15:24 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	1.353	1.453	86675268	126.3E6	25.000M4	25.000M4
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount 50.000	Range 30 - 150		Recovery =		0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount 50.000	Range 30 - 150		Recovery =		0.00%#	0.00%#
	Target Compounds						
3) t	Hexachlorobe	0.000	0.000	0	0	N.D. d	N.D. d
4) t	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5) t	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6) t	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7) t	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8) t	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9) t	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10) t	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11) t	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12) t	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13) t	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14) t	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15) t	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17) t	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18) t	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19) t	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21) t	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22) t	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest11\2024\240305A\
Data File : 11240305a-05.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 05 Mar 2024 7:48 am
Operator : PEST11:peg
Sample : wg1892239-3,42,,tox11438 (Sig #1); tox11438 (Sig #2)
Misc : wg1892239,,ical20697
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 05 08:15:13 2024
Quant Method : I:\PEST\Pest11\2024\240305A\pest11_12_19_23_ugL_ICAL20697.M
Quant Title : pest
QLast Update : Tue Mar 05 08:15:24 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
23) t	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
24) t	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25) t	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26) t	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-2	4.530	5.228	372.8E6	251.8E6	1807.723M3	2291.984
35) l2	toxaphene-3	4.652	5.257	256.2E6	365.9E6	1733.395	2176.034
36) l2	toxaphene-4	4.872	5.567	284.5E6	362.9E6	1644.050	1881.781
37) l2	toxaphene-5	5.244	5.969	297.3E6	400.3E6	1894.576	2183.084
Sum	toxaphene-2			1210.8E6	1380.9E6	7079.745	8532.882
Average	toxaphene-2					1769.936	2133.221

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-2			1210.8E6	1380.9E6	7079.745	8532.882
Average	toxaphene-2					1769.936	2133.221

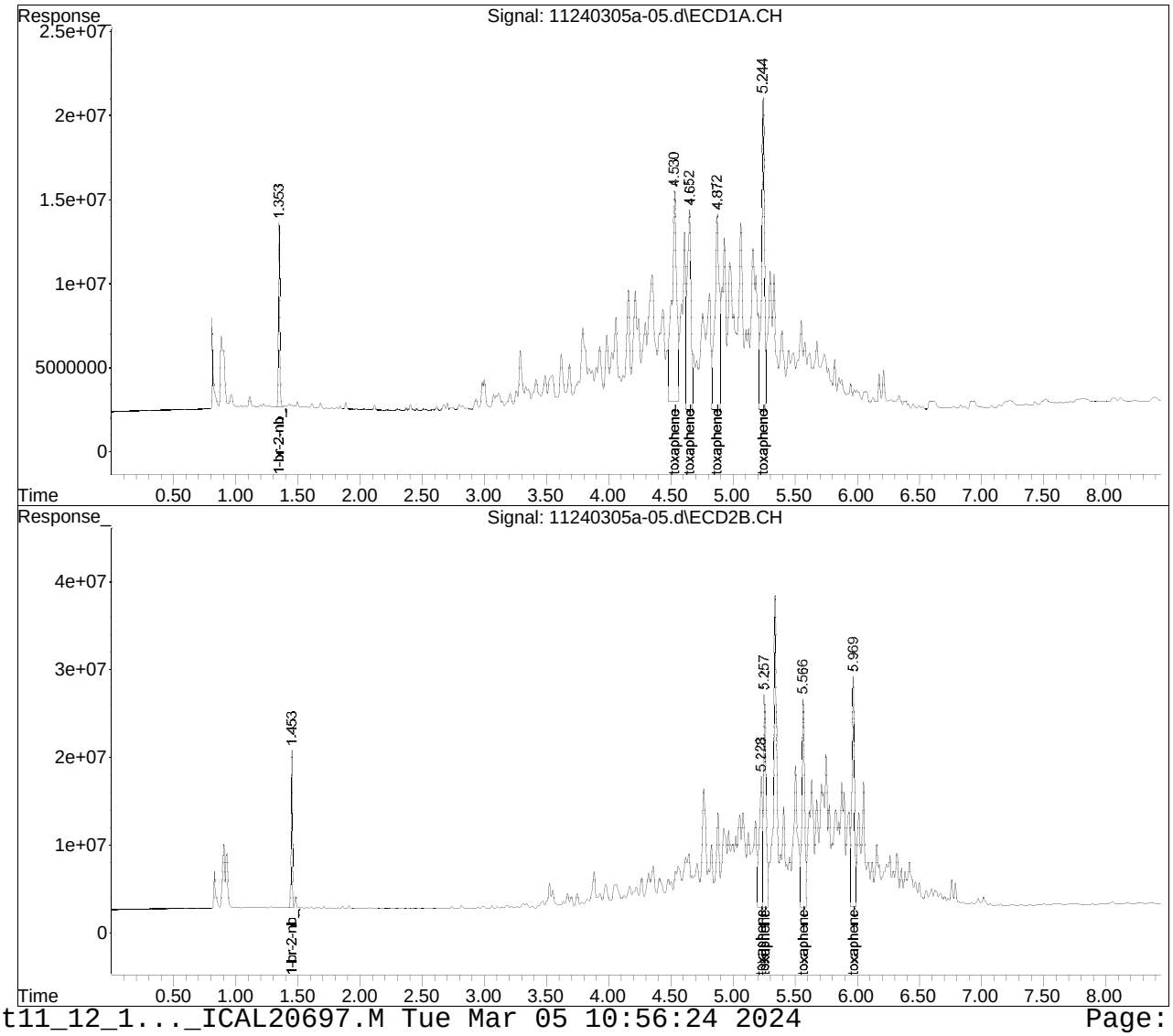
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest11\2024\240305A\
Data File : 11240305a-05.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 05 Mar 2024 7:48 am
Operator : PEST11:peg
Sample : wg1892239-3,42,,tox11438 (Sig #1); tox11438 (Sig #2)
Misc : wg1892239,,ical20697
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 05 08:15:13 2024
Quant Method : I:\PEST\Pest11\2024\240305A\pest11_12_19_23_ugL_ICAL20697.M
Quant Title : pest
QLast Update : Tue Mar 05 08:15:24 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

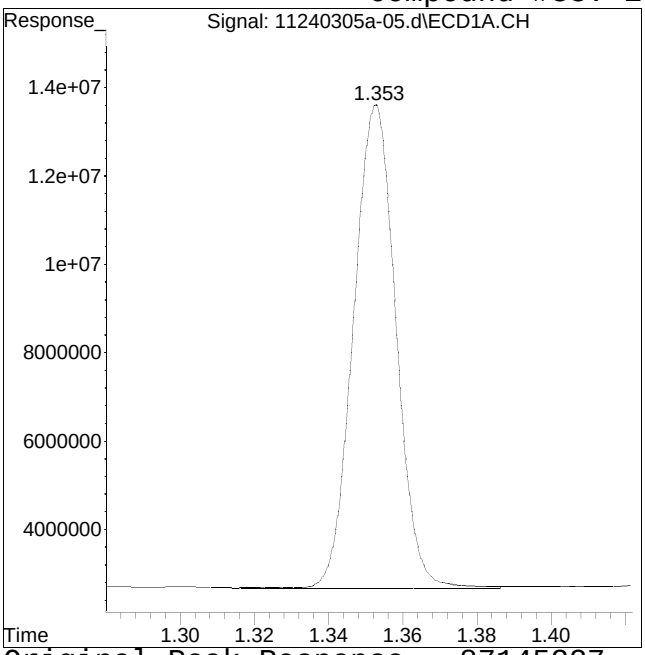
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



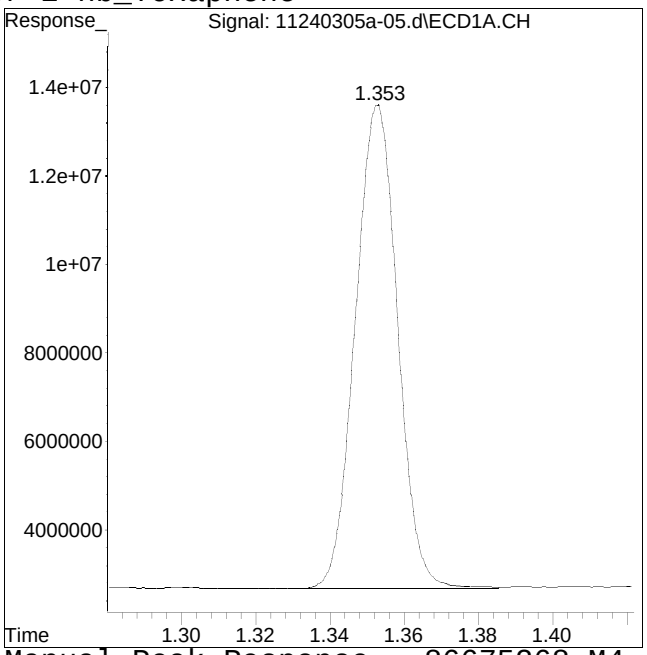
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-05.d Operator : PEST11:peg
Date Inj'd : 3/5/2024 7:48 am Instrument : Pest 11
Sample : wg1892239-3,42,,tox11438 Quant Date : 3/5/2024 8:15 am

Compound #33: 1-br-2-nb_Toxaphene



Original Peak Response = 87145227



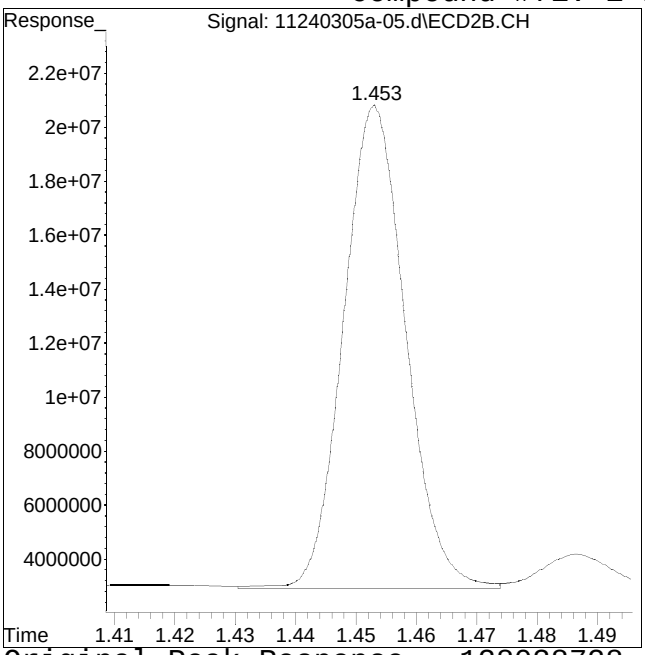
Manual Peak Response = 86675268 M4

M4 = Poor automated baseline construction.

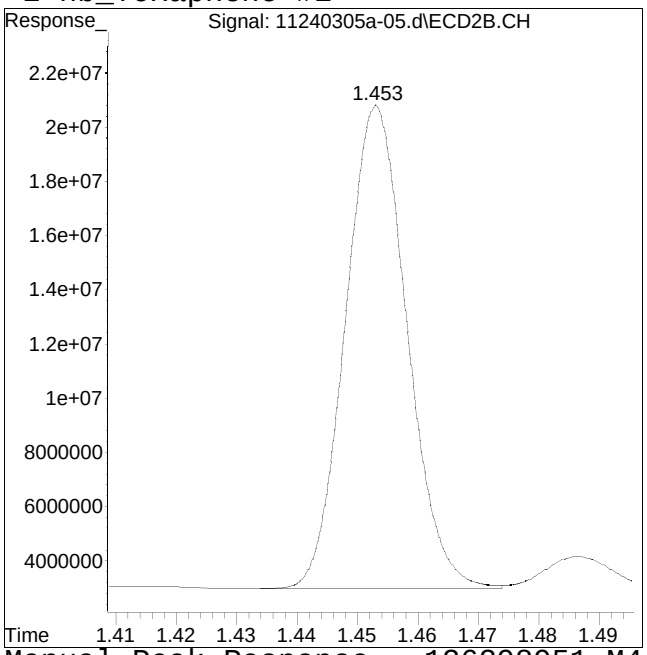
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-05.d Operator : PEST11:peg
Date Inj'd : 3/5/2024 7:48 am Instrument : Pest 11
Sample : wg1892239-3,42,,tox11438 Quant Date : 3/5/2024 8:15 am

Compound #71: 1-br-2-nb_Toxaphene #2



Original Peak Response = 128038728

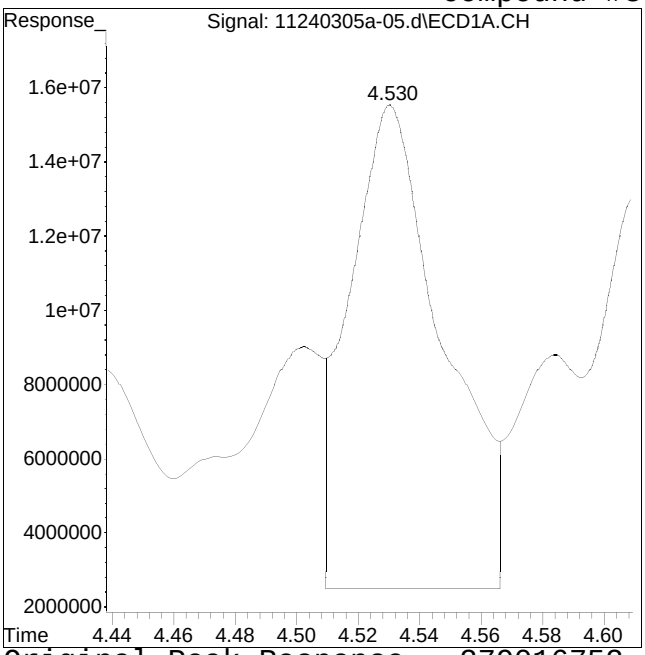


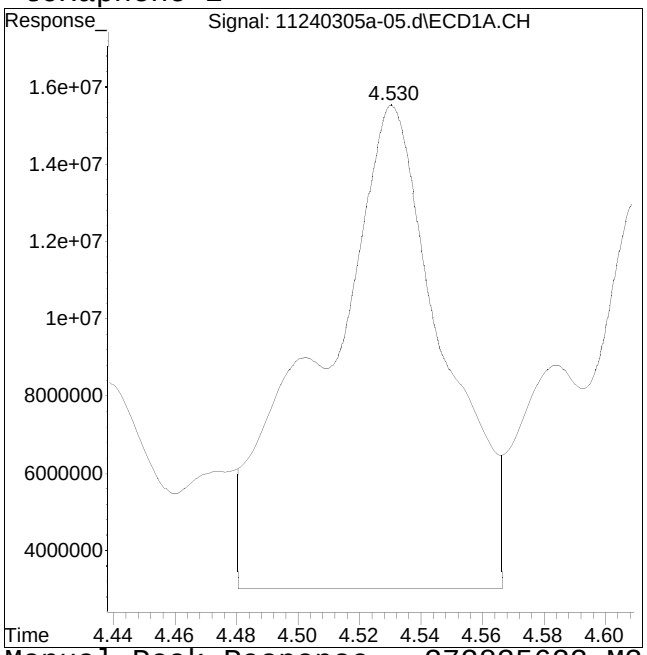
Manual Peak Response = 126298951 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-05.d Operator : PEST11:peg
Date Inj'd : 3/5/2024 7:48 am Instrument : Pest 11
Sample : wg1892239-3,42,,tox11438 Quant Date : 3/5/2024 8:15 am

Compound #34: toxaphene-2





Original Peak Response = 279016752 Manual Peak Response = 372835622 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Degradation Check Standard

Performance Evaluation Mixture Summary
Form 15
Pesticides

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Instrument ID	: PEST20	**Analysis Date**	: 03/02/24 06:43
PEM Standard	: R1800735-1		
Column 1	: RTX-5	**Column 2**	: RTX-CLPPesticides2

Parameter	Signal 1	Signal 2
4,4'-DDE	151768.56082	275294.33136
Endrin	126890864.0737	123845163.37024
4,4'-DDD	740746.79514	572597.98106
4,4'-DDT	206787369.06671	212698031.25445
Endrin Aldehyde	0	0
Endrin Ketone	476701.93525	404429.28802

Parameter	%Breakdown 1	%Breakdown 2
Endrin	0.374	0.325
DDT	0.430	0.397

Performance Evaluation Mixture Summary
Form 15
Pesticides

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Instrument ID	: PEST15	**Analysis Date**	: 03/02/24 14:55
PEM Standard	: R1800740-1		
Column 1	: RTX-5	**Column 2**	: RTX-CLPPesticides2

Parameter	Signal 1	Signal 2
4,4'-DDE	107016.405	0
Endrin	301835019.6002	209370262.67133
4,4'-DDD	466588.28106	832293.26472
4,4'-DDT	473350435.97811	376346963.45611
Endrin Aldehyde	0	110383.78289
Endrin Ketone	537059.0625	322009.82689

Parameter	%Breakdown 1	%Breakdown 2
Endrin	0.178	0.206
DDT	0.121	0.221

Performance Evaluation Mixture Summary
Form 15
Pesticides

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Instrument ID	: PEST11	**Analysis Date**	: 03/05/24 07:12
PEM Standard	: R1801456-1		
Column 1	: RTX-5	**Column 2**	: RTX-CLPPesticides2

Parameter	Signal 1	Signal 2
4,4'-DDE	256449.8112	886548.59108
Endrin	189698917.44834	354868760.41353
4,4'-DDD	560778.58077	1418739.41972
4,4'-DDT	329322521.04735	649075344.85388
Endrin Aldehyde	0	0
Endrin Ketone	1382642.30509	2089546.30417

Parameter	%Breakdown 1	%Breakdown 2
Endrin	0.724	0.585
DDT	0.248	0.354

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest20\2024\240302a\
Data File : 20240302a-02.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 02 Mar 2024 06:43 am
Operator : pest20:peg
Sample : pem20240302a-01,42,,deg11372 (Sig #1); deg11372 (Sig #2)
Misc : wg1891472,,ical20686
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Mar 02 08:15:16 2024
Quant Method : I:\PEST\Pest20\2024\240302a\pest20_2023_12_15_ugL_ICAL20686.m
Quant Title : pest
QLast Update : Sat Mar 02 08:11:36 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : DEG - DDT/Endrin degradation check

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	1.763	1.923	60010575	62633274	25.000M4	25.000M4
	System Monitoring Compounds						
	Target Compounds						
15)	4,4'-DDE	4.406	5.307	151769	275294	0.053M4	0.092M4
D							
18)	Endrin	4.964	5.754	126.9E6	123.8E6	47.239	43.310M4
19)	4,4'-DDD	5.083	5.873	740747	572598	0.342M4	0.250M4
21)	4,4'-DDT	5.374	6.147	206.8E6	212.7E6	96.975	91.865M4
22)	Endrin Aldeh	0.000	0.000	0	0	N.D.	N.D. d
26)	Endrin Keton	6.250	6.888	476702	404429	0.190	0.151M4
	Sum chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
	Sum toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000
	SemiQuant Compounds - Not Calibrated on this Instrument						
	Sum toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

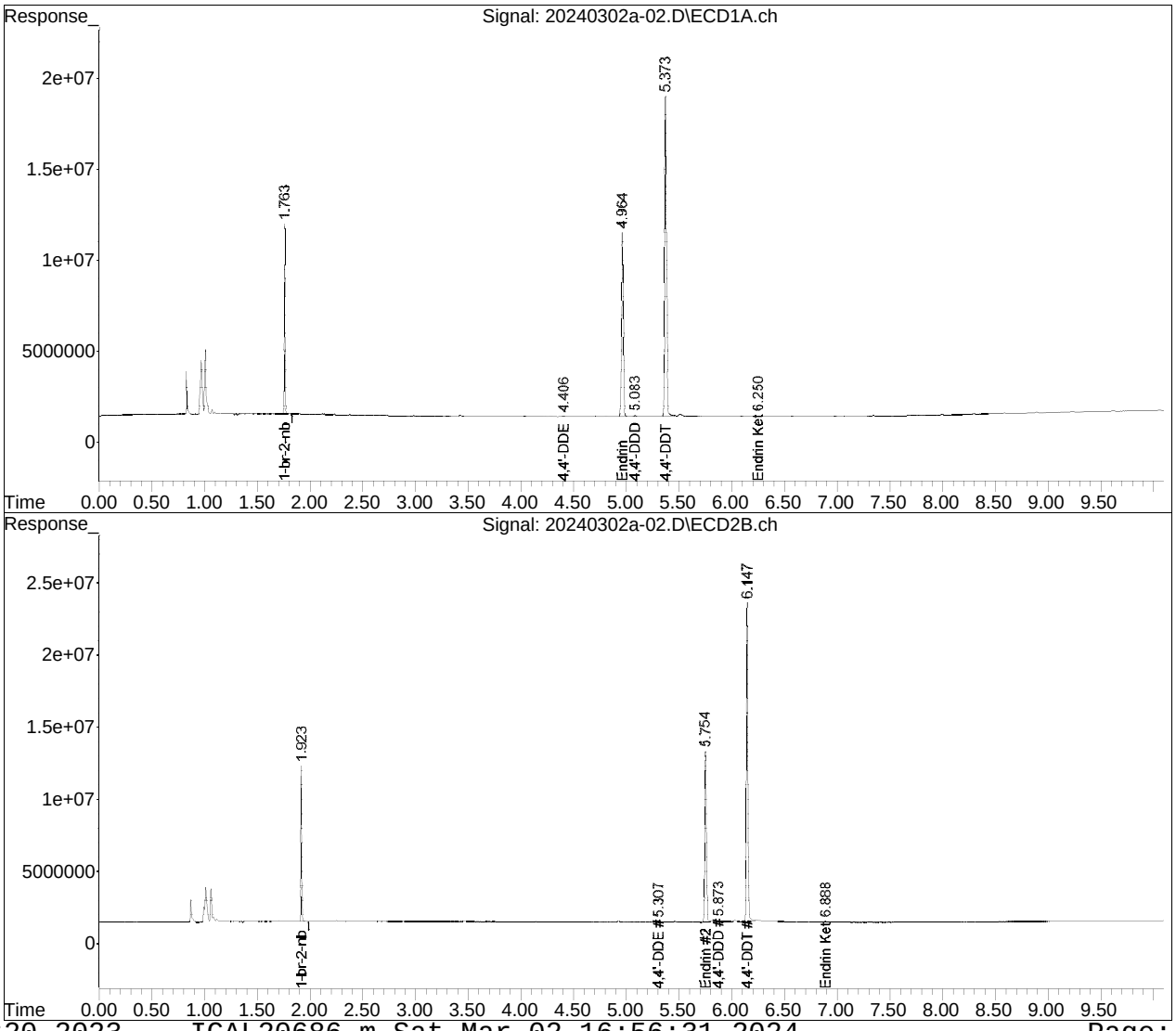
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : DEG - DDT/Endrin degradation checkiewed)

Data Path : I:\PEST\Pest20\2024\240302a\
Data File : 20240302a-02.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 02 Mar 2024 06:43 am
Operator : pest20:peg
Sample : pem20240302a-01,42,,deg11372 (Sig #1); deg11372 (Sig #2)
Misc : wg1891472,,ical20686
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Mar 02 08:15:16 2024
Quant Method : I:\PEST\Pest20\2024\240302a\pest20_2023_12_15_ugL_ICAL20686.m
Quant Title : pest
QLast Update : Sat Mar 02 08:11:36 2024
Response via : Initial Calibration
Integrator: ChemStation

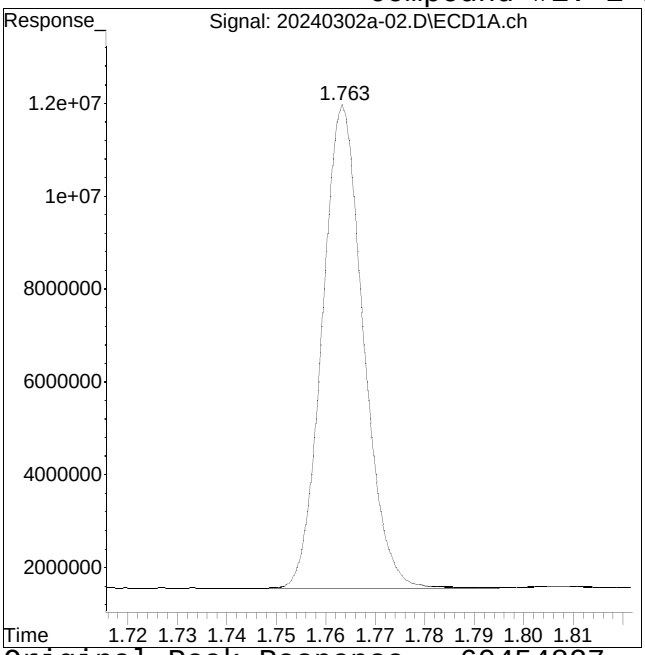
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

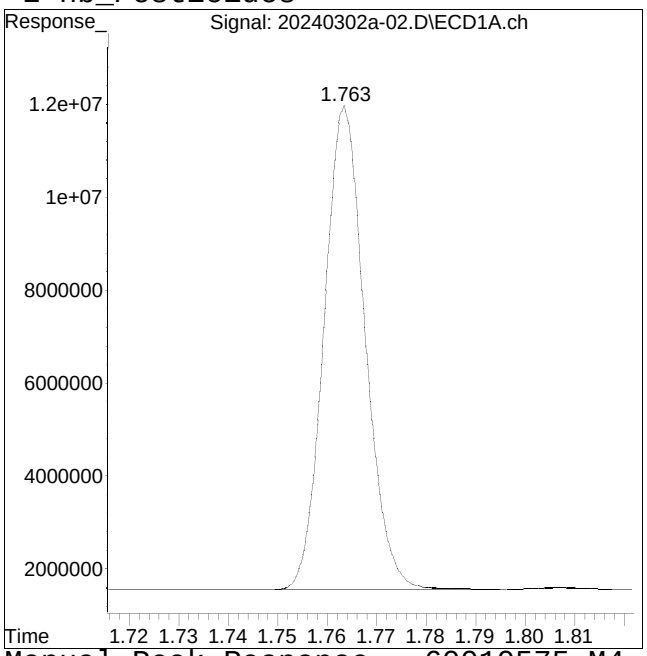


Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240302Q
Data File : 20240302a-02.D
Date Inj'd : 3/2/2024 6:43 am
Sample : pem20240302a-01,42,,deg113
Method : pest20_2023_12_15_ugL_IC
Operator : pest20:peg
Instrument : PEST 20
Quant Date : 3/2/2024 8:12 am

Compound #1: 1-br-2-nb_Pesticides



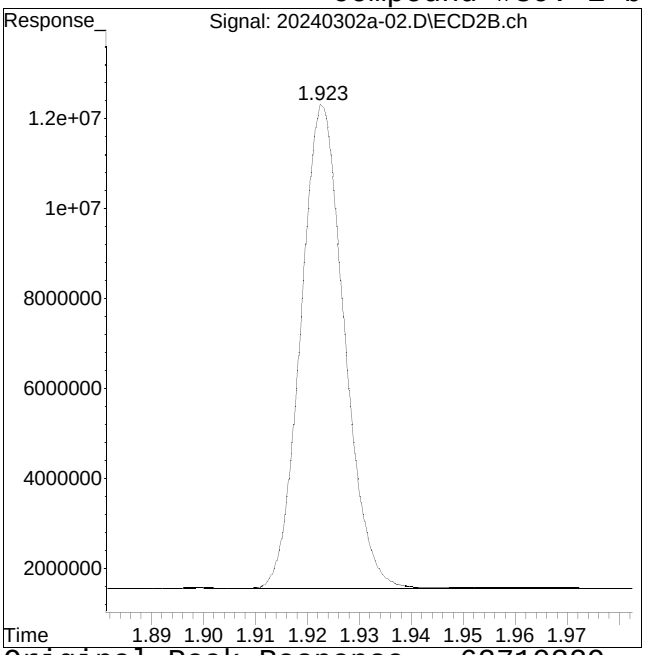


Original Peak Response = 60454827 Manual Peak Response = 60010575 M4
M4 = Poor automated baseline construction.

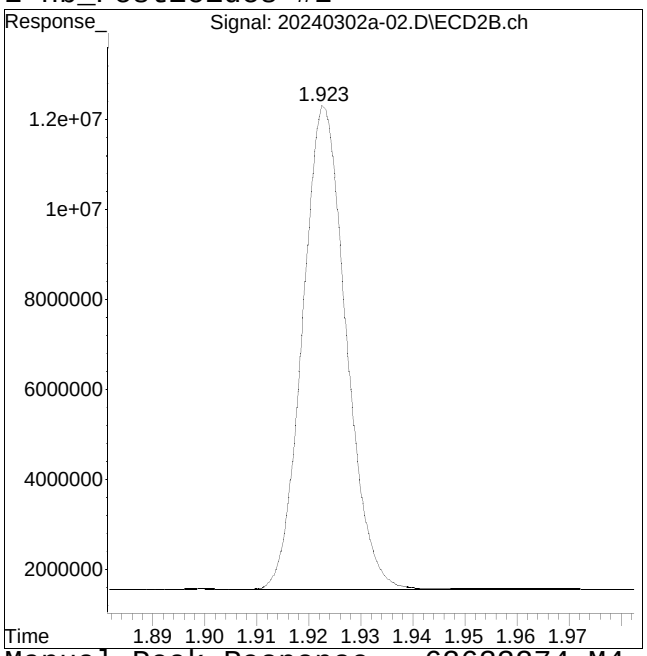
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240302Q
Data File : 20240302a-02.D
Date Inj'd : 3/2/2024 6:43 am
Sample : pem20240302a-01,42,,deg113
Method : pest20_2023_12_15_ugL_IC
Operator : pest20:peg
Instrument : PEST 20
Quant Date : 3/2/2024 8:12 am

Compound #39: 1-br-2-nb_Pesticides #2



Original Peak Response = 62710329



Manual Peak Response = 62633274 M4

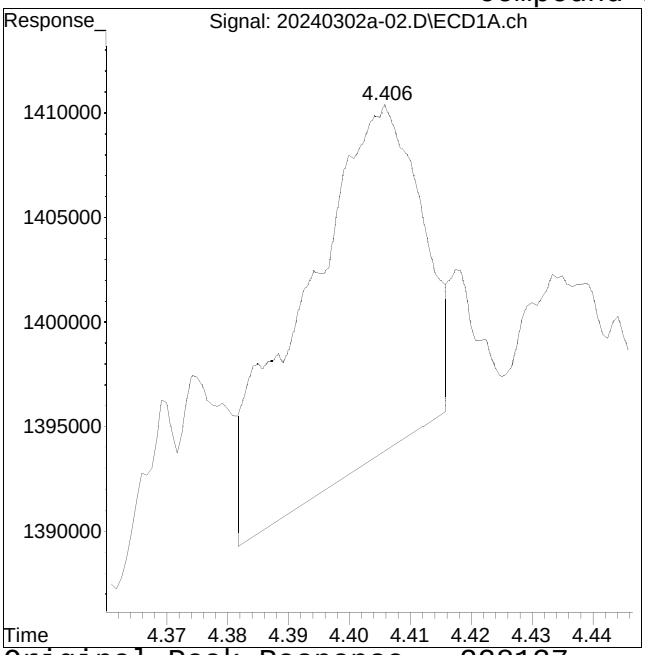
M4 = Poor automated baseline construction.

Manual Integration Report

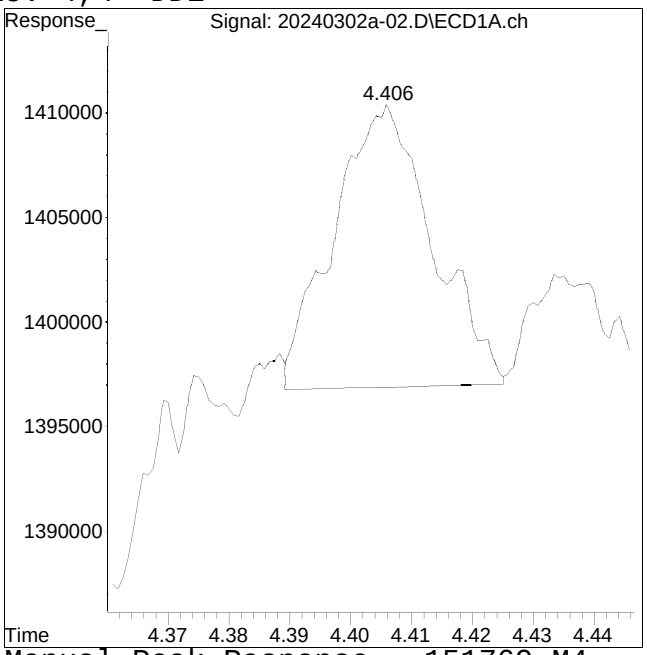
Data Path : I:\PEST\Pest20\2024\240302Q
Data File : 20240302a-02.D
Date Inj'd : 3/2/2024 6:43 am
Sample : pem20240302a-01,42,,deg113

Method : pest20_2023_12_15_ugL_IC
Operator : pest20:peg
Instrument : PEST 20
Quant Date : 3/2/2024 8:12 am

Compound #15: 4,4'-DDE



Original Peak Response = 228137



Manual Peak Response = 151769 M4

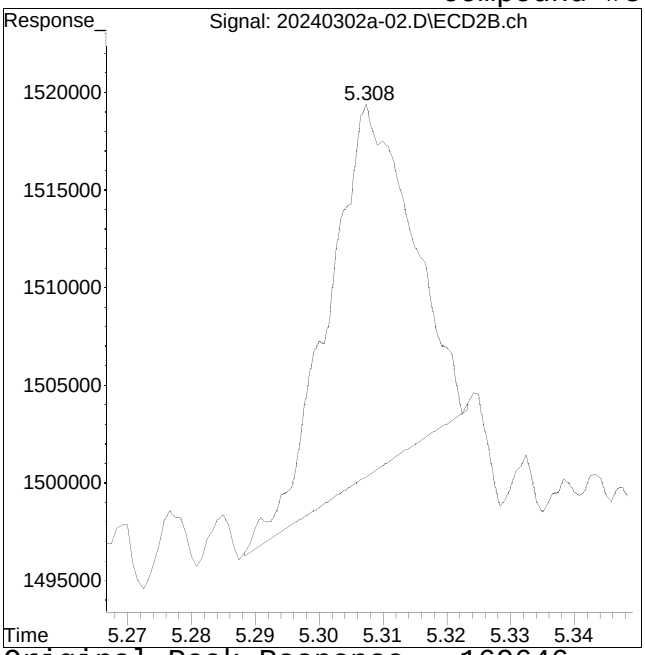
M4 = Poor automated baseline construction.

Manual Integration Report

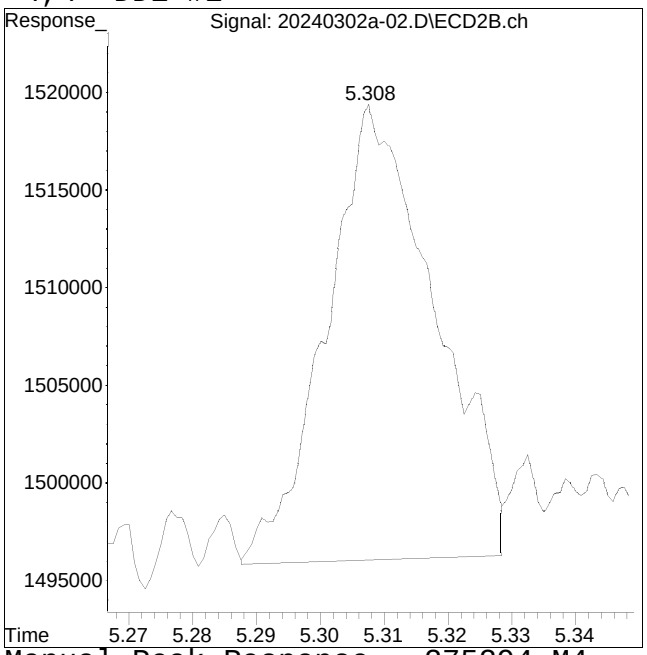
Data Path : I:\PEST\Pest20\2024\240302Q
Data File : 20240302a-02.D
Date Inj'd : 3/2/2024 6:43 am
Sample : pem20240302a-01,42,,deg113

Method : pest20_2023_12_15_ugL_IC
Operator : pest20:peg
Instrument : PEST 20
Quant Date : 3/2/2024 8:12 am

Compound #53: 4,4'-DDE #2



Original Peak Response = 169646



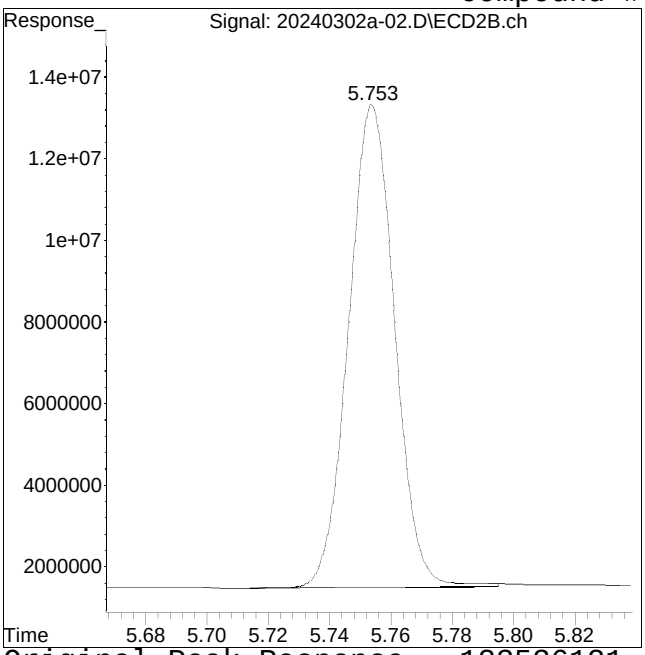
Manual Peak Response = 275294 M4

M4 = Poor automated baseline construction.

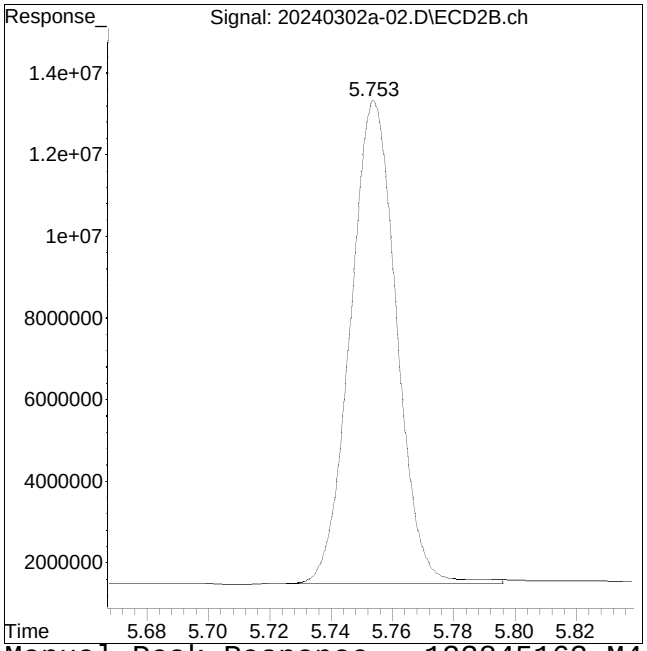
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240302Q
Data File : 20240302a-02.D
Date Inj'd : 3/2/2024 6:43 am
Sample : pem20240302a-01,42,,deg113
Method : pest20_2023_12_15_ugL_IC
Operator : pest20:peg
Instrument : PEST 20
Quant Date : 3/2/2024 8:12 am

Compound #56: Endrin #2



Original Peak Response = 123536121



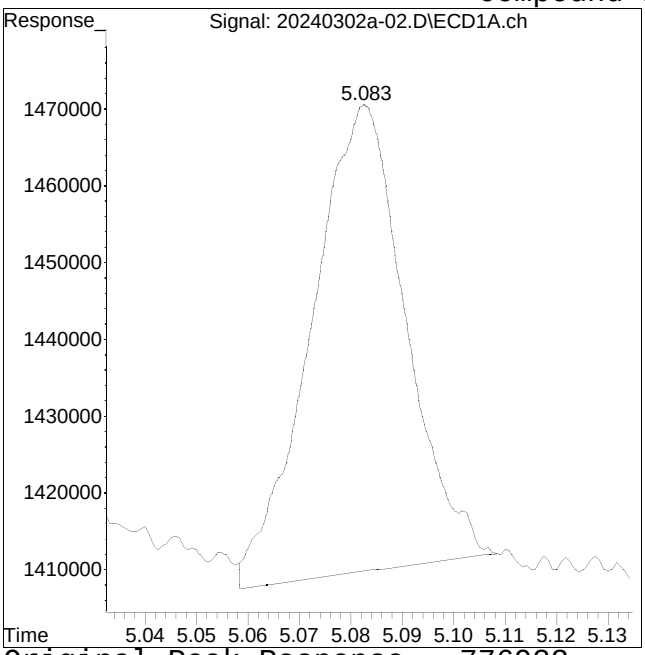
Manual Peak Response = 123845163 M4

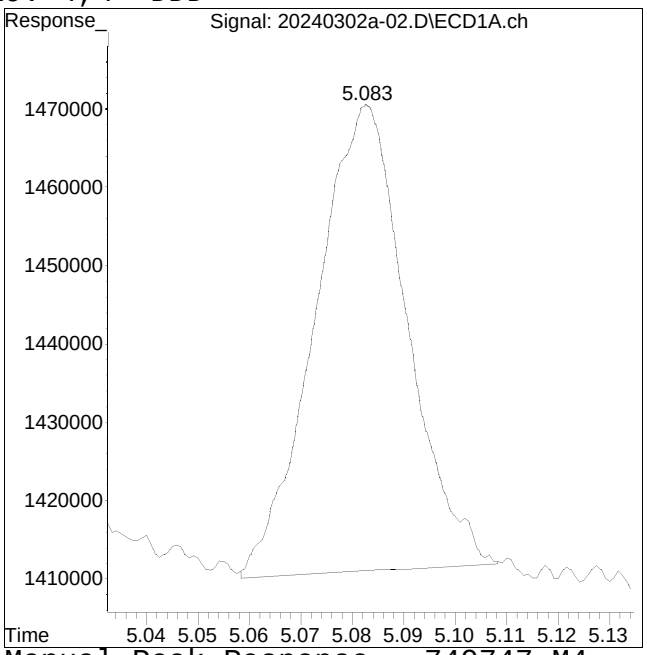
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240302Q
Data File : 20240302a-02.D
Date Inj'd : 3/2/2024 6:43 am
Sample : pem20240302a-01,42,,deg113
Method : pest20_2023_12_15_ugL_IC
Operator : pest20:peg
Instrument : PEST 20
Quant Date : 3/2/2024 8:12 am

Compound #19: 4,4'-DDD





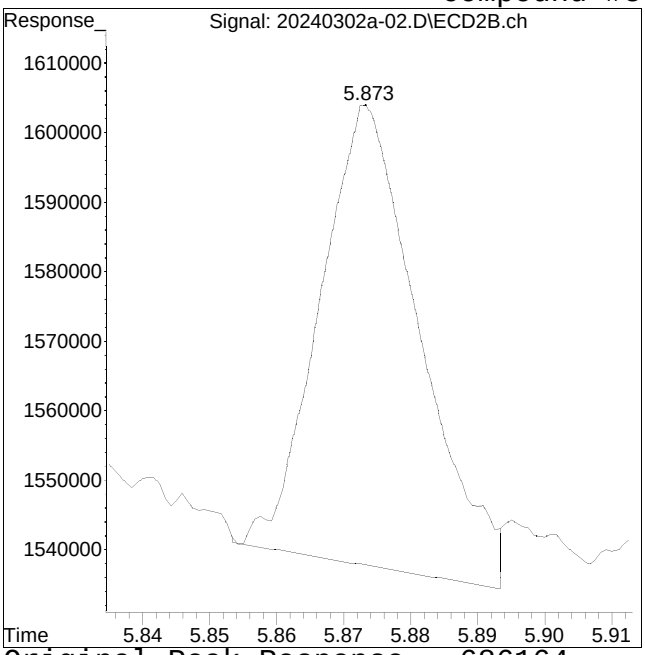
Original Peak Response = 776922 Manual Peak Response = 740747 M4
M4 = Poor automated baseline construction.

Manual Integration Report

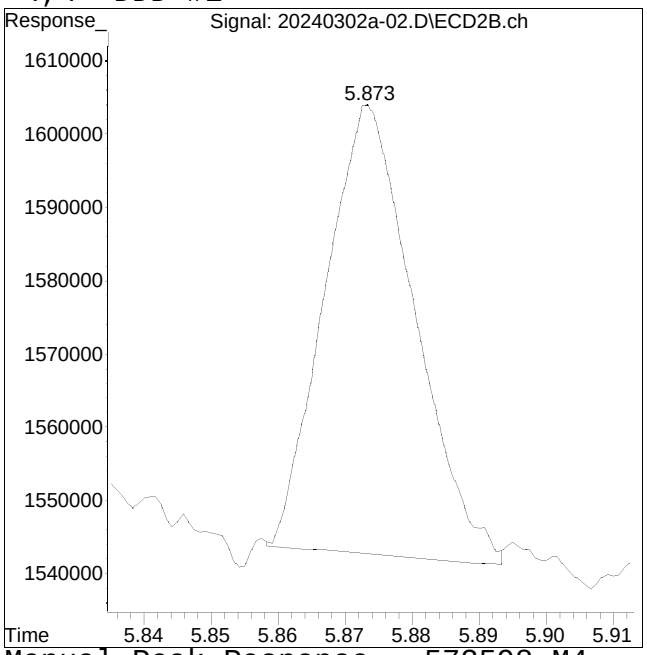
Data Path : I:\PEST\Pest20\2024\240302Q
Data File : 20240302a-02.D
Date Inj'd : 3/2/2024 6:43 am
Sample : pem20240302a-01,42,,deg113

Method : pest20_2023_12_15_ugL_IC
Operator : pest20:peg
Instrument : PEST 20
Quant Date : 3/2/2024 8:12 am

Compound #57: 4,4'-DDD #2



Original Peak Response = 686164



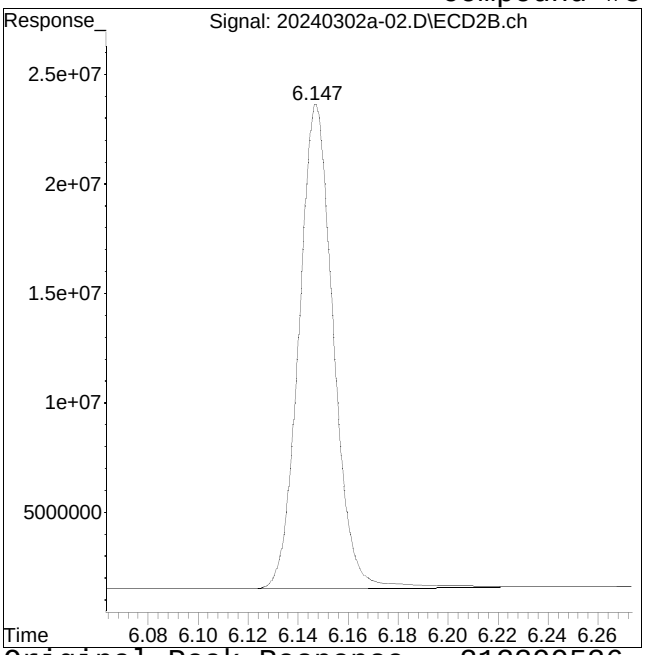
Manual Peak Response = 572598 M4

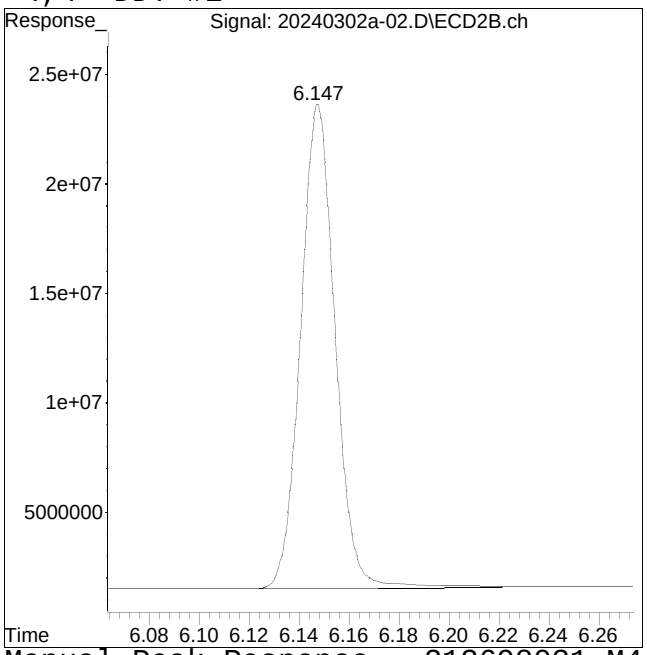
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240302Q
Data File : 20240302a-02.D
Date Inj'd : 3/2/2024 6:43 am
Sample : pem20240302a-01,42,,deg113
Method : pest20_2023_12_15_ugL_IC
Operator : pest20:peg
Instrument : PEST 20
Quant Date : 3/2/2024 8:12 am

Compound #59: 4,4'-DDT #2



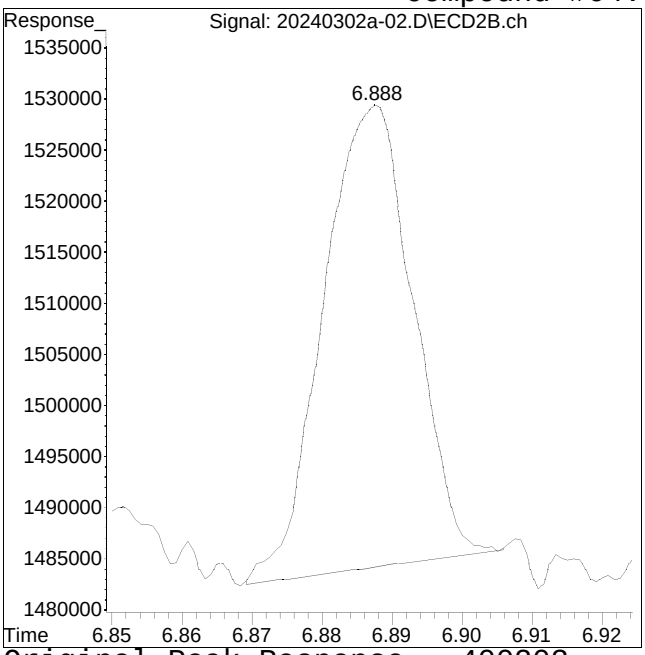


Original Peak Response = 212399536 Manual Peak Response = 212698031 M4
M4 = Poor automated baseline construction.

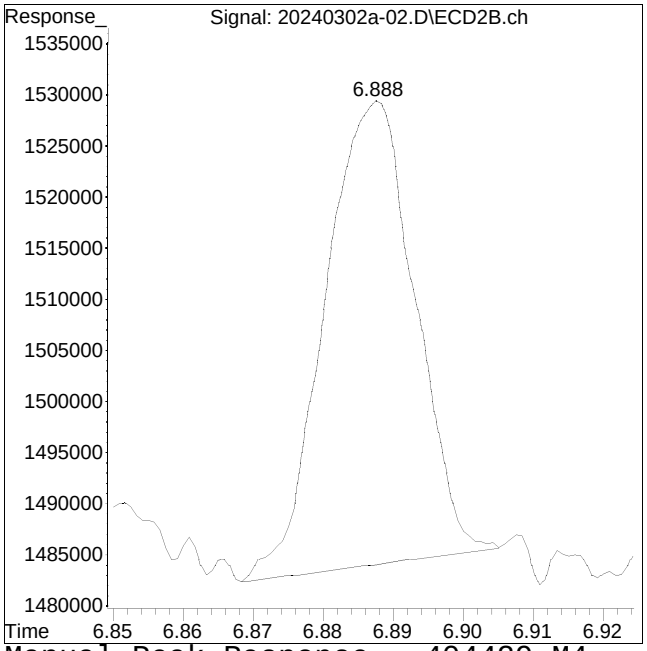
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240302Q
Data File : 20240302a-02.D
Date Inj'd : 3/2/2024 6:43 am
Sample : pem20240302a-01,42,,deg113
Method : pest20_2023_12_15_ugL_IC
Operator : pest20:peg
Instrument : PEST 20
Quant Date : 3/2/2024 8:12 am

Compound #64: Endrin Ketone #2



Original Peak Response = 400203



Manual Peak Response = 404429 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest15\2024\240302A\
Data File : 15240302a-02.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 Mar 2024 2:55 pm
Operator : Pest15:jag
Sample : pem15240302a-01,42,,deg11372 (Sig #1); deg11372 (Sig #2)
Misc : wg1891515,,ical20776
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Mar 02 15:20:40 2024
Quant Method : I:\PEST\Pest15\2024\240302A\P15_pest_2024_01_08_ugL_ICAL2077
... 6.m
Quant Title : pest
QLast Update : Sat Mar 02 15:18:51 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : DEG - DDT/Endrin degradation check

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l	
	Internal Standards							
1) i	1-br-2-nb_Pe	1.204	1.285	108.7E6	88678586	25.000M4	25.000M4	
	System Monitoring Compounds							
	Target Compounds							
15)	4,4'-DDE	3.571	0.000	107016	0	0.022M4	N.D.	D
18)	Endrin	4.119	4.858	301.8E6	209.4E6	59.496	61.818	
19)	4,4'-DDD	4.240	4.987	466588	832293	0.106	N.D. M4	D
21)	4,4'-DDT	4.539	5.269	473.4E6	376.3E6	109.656	122.184	
22)	Endrin Aldeh	0.000	5.362	0	110384	N.D.	N.D.	
26)	Endrin Keton	5.429	6.013	537059	322010	0.109	0.088	
	Sum chlordane-1			0	0	N.D.	N.D.	
Average	chlordane-1					0.000	0.000	
	Sum toxaphene-1			0	0	N.D.	N.D.	
Average	toxaphene-1					0.000	0.000	
	SemiQuant Compounds - Not Calibrated on this Instrument							
	Sum toxaphene-1			0	0	N.D.	N.D.	
Average	toxaphene-1					0.000	0.000	

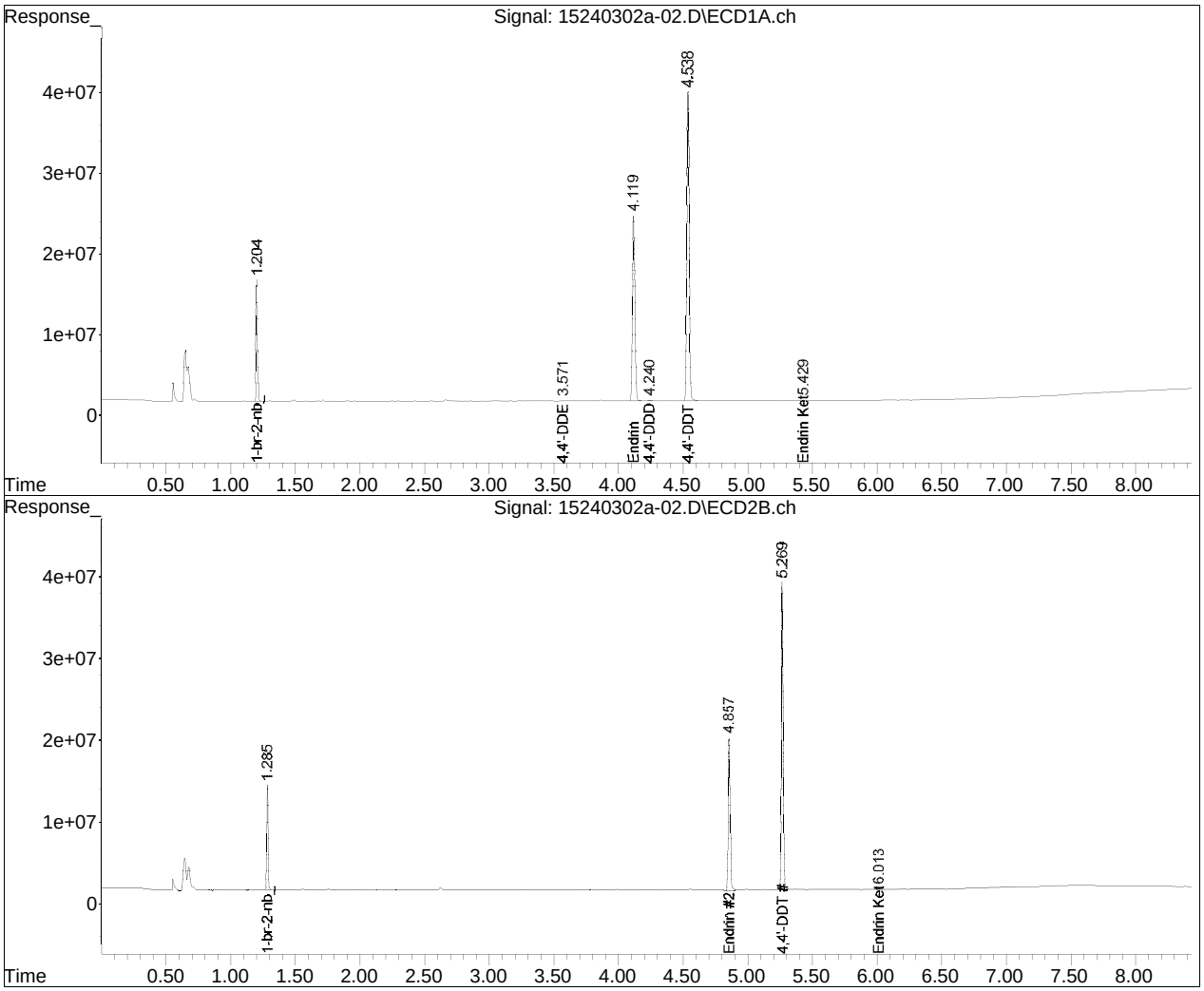
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : DEG - DDT/Endrin degradation checkiewed)

Data Path : I:\PEST\Pest15\2024\240302A\
Data File : 15240302a-02.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 Mar 2024 2:55 pm
Operator : Pest15:jag
Sample : pem15240302a-01,42,,deg11372 (Sig #1); deg11372 (Sig #2)
Misc : wg1891515,,ical20776
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Mar 02 15:20:40 2024
Quant Method : I:\PEST\Pest15\2024\240302A\P15_pest_2024_01_08_ugL_ICAL2077
... 6.m
Quant Title : pest
QLast Update : Sat Mar 02 15:18:51 2024
Response via : Initial Calibration
Integrator: ChemStation

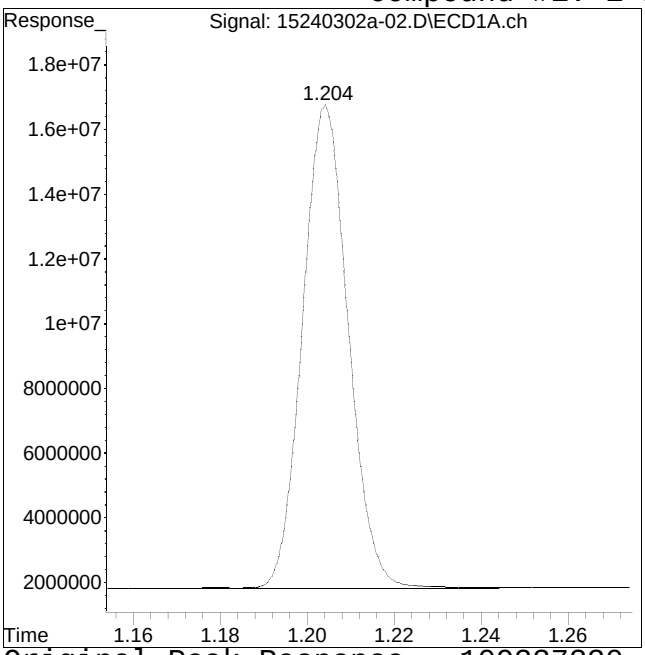
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



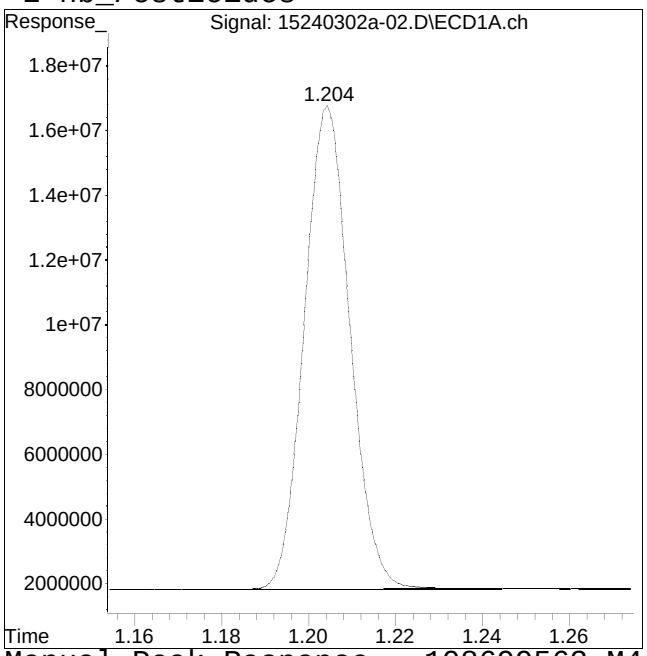
Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240302QMethod : P15_pest_2024_01_08_ugL_
Data File : 15240302a-02.D Operator : Pest15:jag
Date Inj'd : 3/2/2024 2:55 pm Instrument : Pest 15
Sample : pem15240302a-01,42,,deg113Quant Date : 3/2/2024 3:20 pm

Compound #1: 1-br-2-nb_Pesticides



Original Peak Response = 109337330

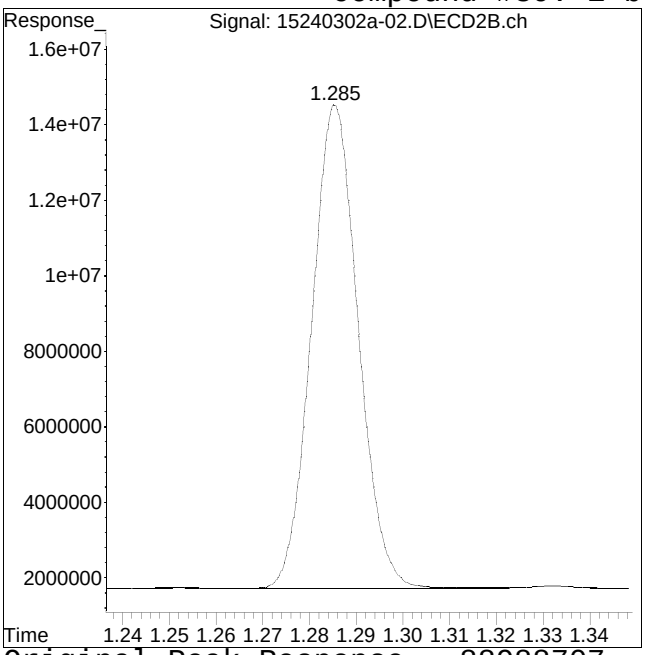


Manual Peak Response = 108699563 M4
M4 = Poor automated baseline construction.

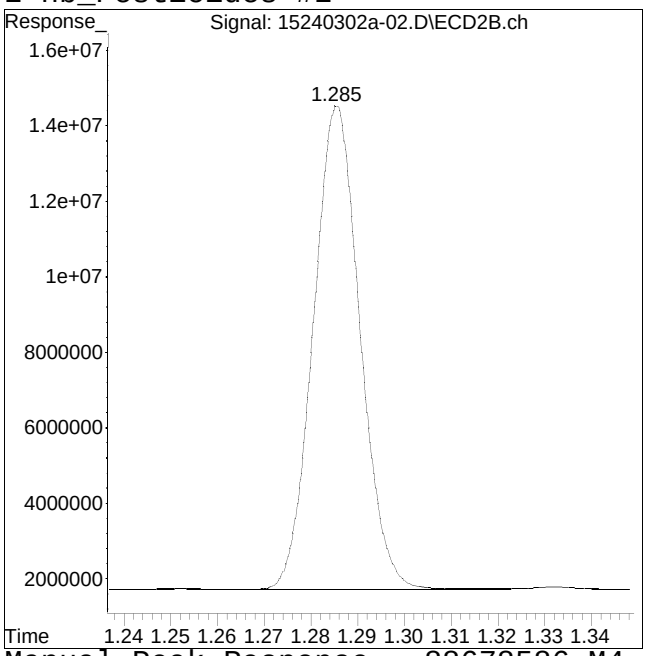
Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240302QMethod : P15_pest_2024_01_08_ugL_
Data File : 15240302a-02.D Operator : Pest15:jag
Date Inj'd : 3/2/2024 2:55 pm Instrument : Pest 15
Sample : pem15240302a-01,42,,deg113Quant Date : 3/2/2024 3:20 pm

Compound #39: 1-br-2-nb_Pesticides #2



Original Peak Response = 88988707



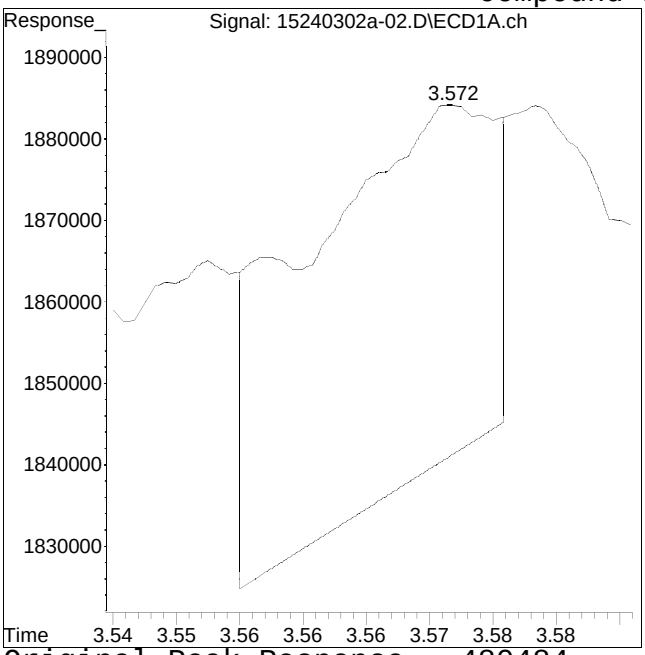
Manual Peak Response = 88678586 M4

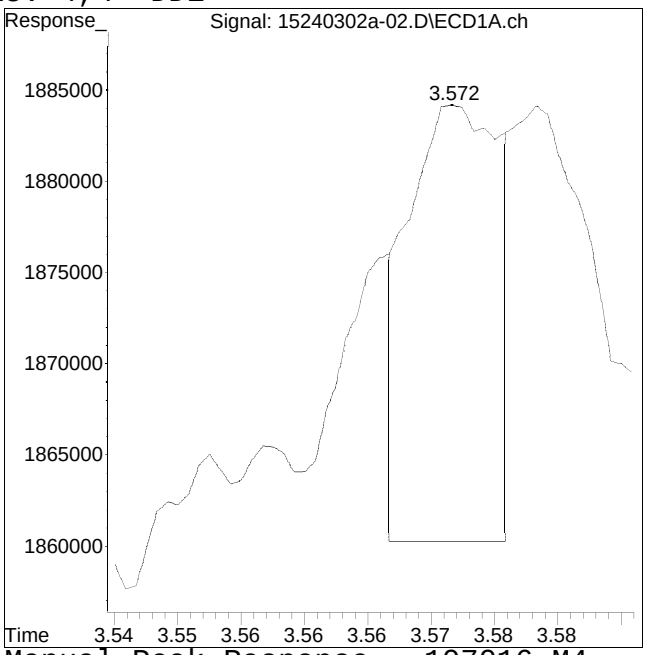
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240302QMethod : P15_pest_2024_01_08_ugL_
Data File : 15240302a-02.D Operator : Pest15:jag
Date Inj'd : 3/2/2024 2:55 pm Instrument : Pest 15
Sample : pem15240302a-01,42,,deg113Quant Date : 3/2/2024 3:20 pm

Compound #15: 4,4'-DDE



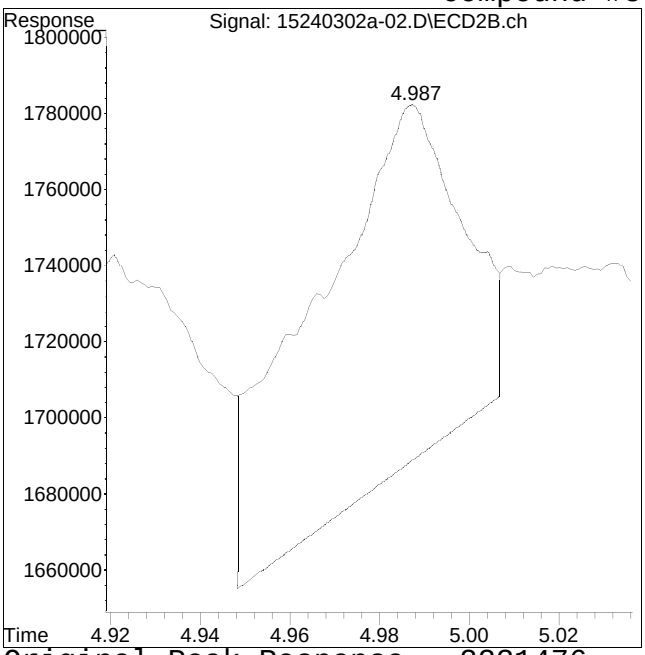


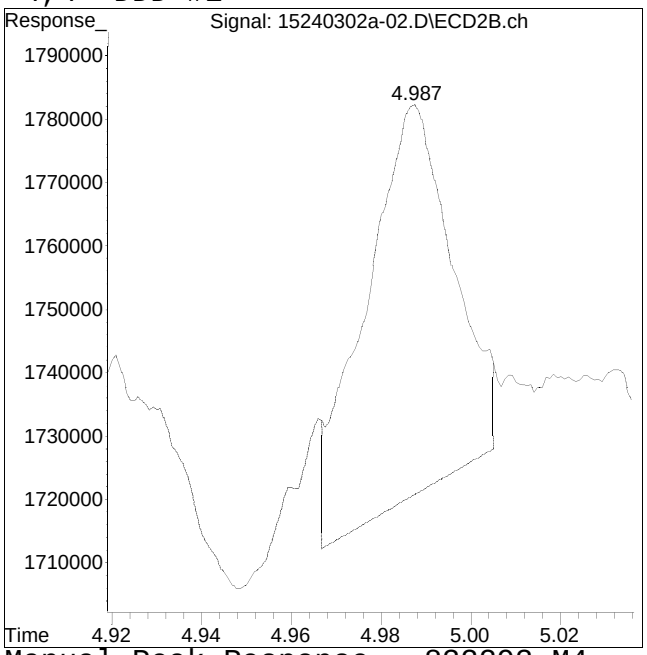
Original Peak Response = 480484 Manual Peak Response = 107016 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240302QMethod : P15_pest_2024_01_08_ugL_
Data File : 15240302a-02.D Operator : Pest15:jag
Date Inj'd : 3/2/2024 2:55 pm Instrument : Pest 15
Sample : pem15240302a-01,42,,deg113Quant Date : 3/2/2024 3:20 pm

Compound #57: 4,4'-DDD #2





Original Peak Response = 2231476 Manual Peak Response = 832293 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240305A\
Data File : 11240305a-02.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 05 Mar 2024 7:12 am
Operator : PEST11:peg
Sample : pem11240305a-01,42,,deg11372 (Sig #1); deg11372 (Sig #2)
Misc : wg1892239,,ical20697
ALS Vial : 2 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 05 07:58:39 2024
Quant Method : I:\PEST\Pest11\2024\240305A\pest11_12_19_23_ugL_ICAL20697.M
Quant Title : pest
QLast Update : Tue Mar 05 07:49:18 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : DEG - DDT/Endrin degradation check

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	1.352	1.452	86637971	134.9E6	25.000M4	25.000M4
	System Monitoring Compounds						
	Target Compounds						
15) t	4,4'-DDE	3.740	4.632	256450	886549	0.066M4	0.146M4
D							
18) t	Endrin	4.298	5.073	189.7E6	354.9E6	46.170M4	58.229M4
19) t	4,4'-DDD	4.405	5.187	560779	1418739	0.173M4	0.293M4
D							
21) t	4,4'-DDT	4.692	5.458	329.3E6	649.1E6	85.506M4	117.710M4
22) t	Endrin Aldeh	0.000	0.000	0	0	N.D.	N.D.
26) t	Endrin Keton	5.555	6.189	1382642	2089546	0.328M4	0.363M4
	Sum chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
	Sum toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000
	SemiQuant Compounds - Not Calibrated on this Instrument						
	Sum toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000

(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240305A\
Data File : 11240305a-02.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 05 Mar 2024 7:12 am
Operator : PEST11:peg
Sample : pem11240305a-01,42,,deg11372 (Sig #1); deg11372 (Sig #2)
Misc : wg1892239,,ical20697
ALS Vial : 2 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 05 07:58:39 2024
Quant Method : I:\PEST\Pest11\2024\240305A\pest11_12_19_23_ugL_ICAL20697.M
Quant Title : pest
QLast Update : Tue Mar 05 07:49:18 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : DEG - DDT/Endrin degradation check

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l

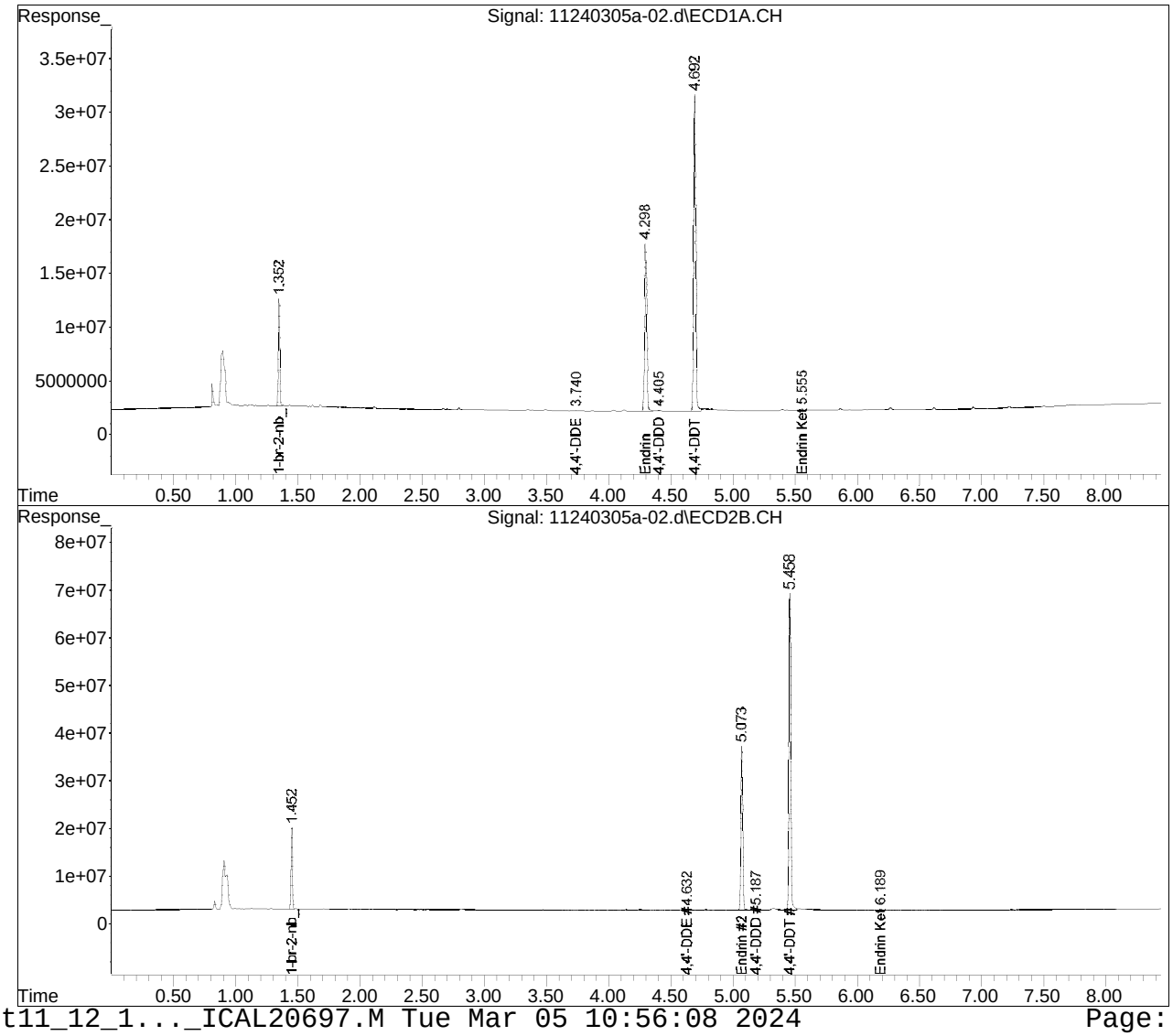
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : DEG - DDT/Endrin degradation checkiewed)

Data Path : I:\PEST\Pest11\2024\240305A\
Data File : 11240305a-02.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 05 Mar 2024 7:12 am
Operator : PEST11:peg
Sample : pem11240305a-01,42,,deg11372 (Sig #1); deg11372 (Sig #2)
Misc : wg1892239,,ical20697
ALS Vial : 2 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 05 07:58:39 2024
Quant Method : I:\PEST\Pest11\2024\240305A\pest11_12_19_23_ugL_ICAL20697.M
Quant Title : pest
QLast Update : Tue Mar 05 07:49:18 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

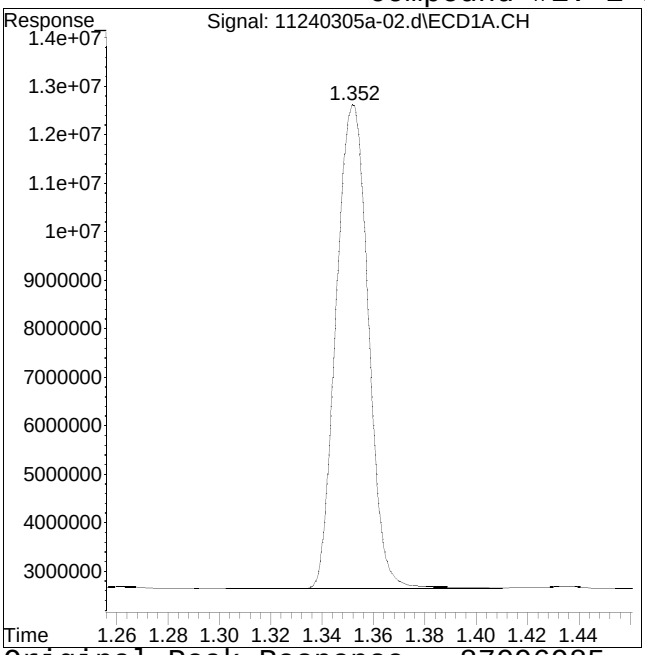
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

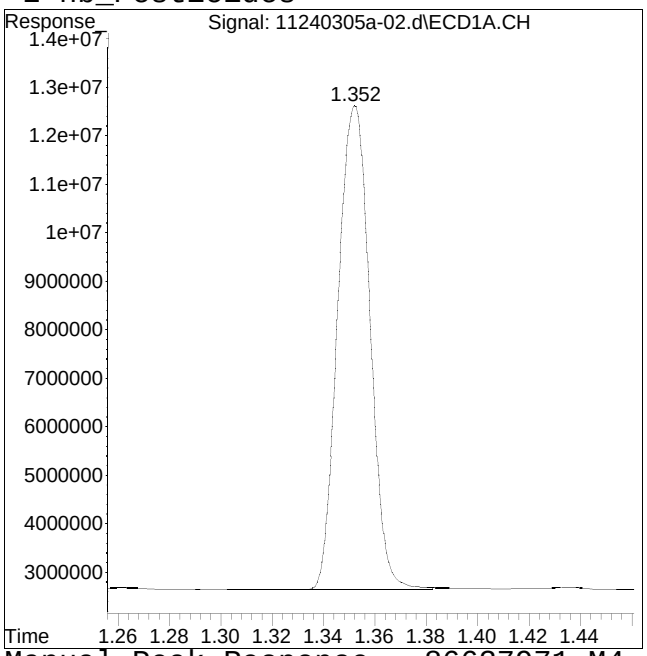


Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-02.d Operator : PEST11:peg
Date Inj'd : 3/5/2024 7:12 am Instrument : Pest 11
Sample : pem11240305a-01,42,,deg113Quant Date : 3/5/2024 7:55 am

Compound #1: 1-br-2-nb_Pesticides



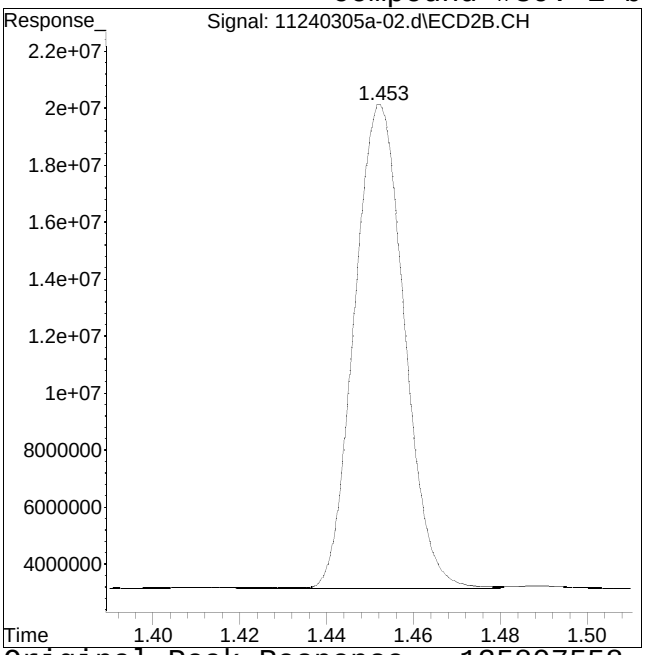


Original Peak Response = 87096985 Manual Peak Response = 86637971 M4
M4 = Poor automated baseline construction.

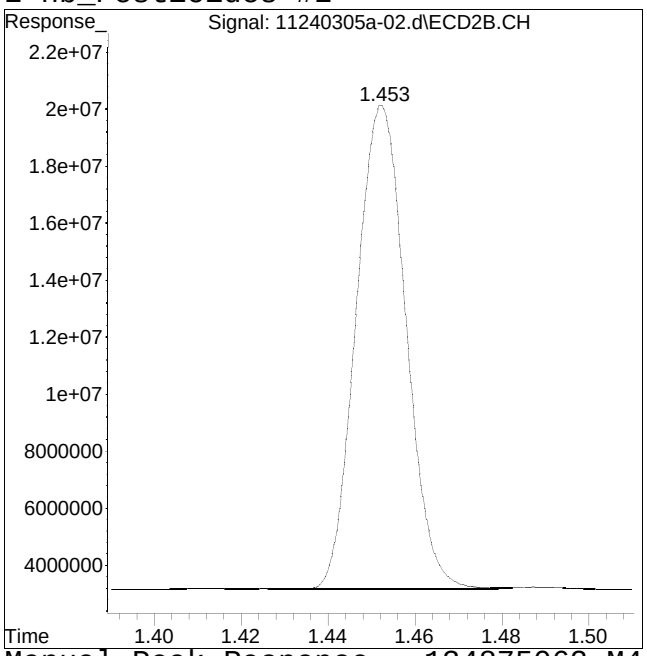
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-02.d Operator : PEST11:peg
Date Inj'd : 3/5/2024 7:12 am Instrument : Pest 11
Sample : pem11240305a-01,42,,deg113Quant Date : 3/5/2024 7:55 am

Compound #39: 1-br-2-nb_Pesticides #2



Original Peak Response = 135807558

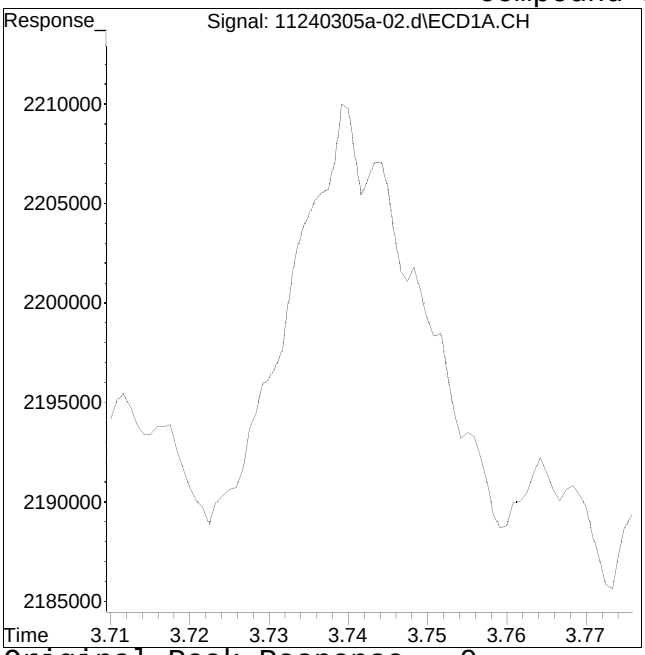


Manual Peak Response = 134875062 M4
M4 = Poor automated baseline construction.

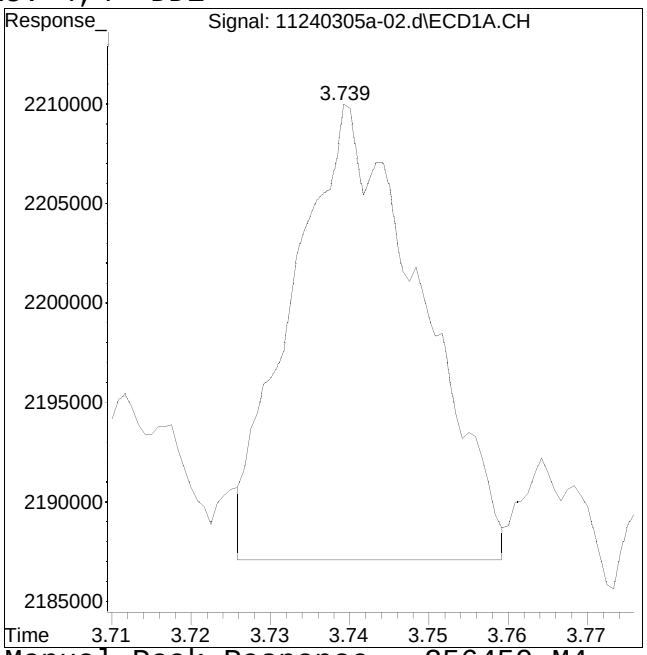
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-02.d Operator : PEST11:peg
Date Inj'd : 3/5/2024 7:12 am Instrument : Pest 11
Sample : pem11240305a-01,42,,deg113Quant Date : 3/5/2024 7:55 am

Compound #15: 4,4'-DDE



Original Peak Response = 0



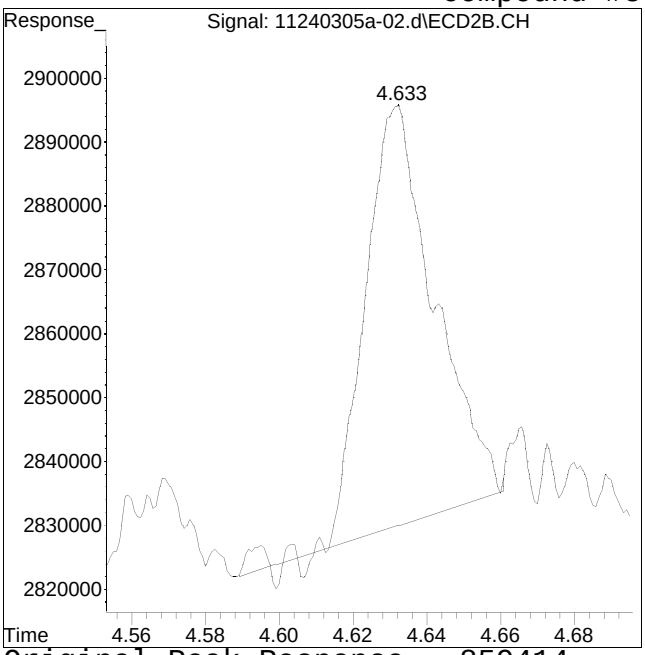
Manual Peak Response = 256450 M4

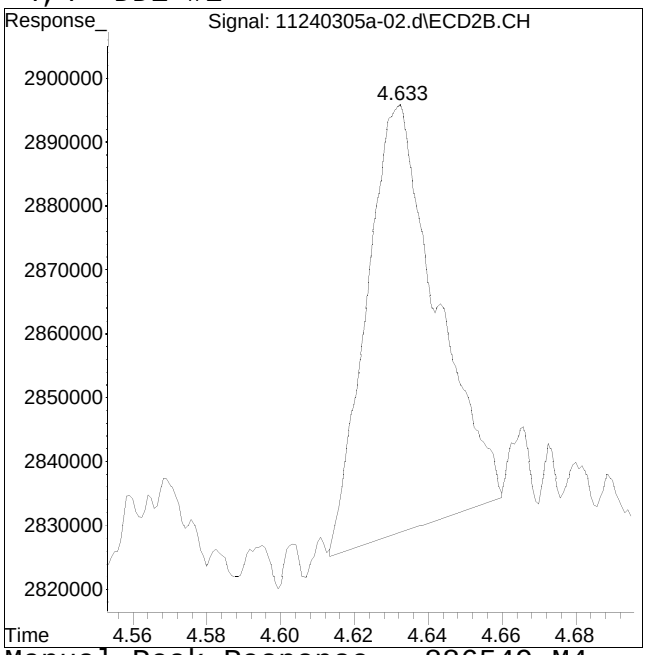
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-02.d Operator : PEST11:peg
Date Inj'd : 3/5/2024 7:12 am Instrument : Pest 11
Sample : pem11240305a-01,42,,deg113Quant Date : 3/5/2024 7:55 am

Compound #53: 4,4'-DDE #2



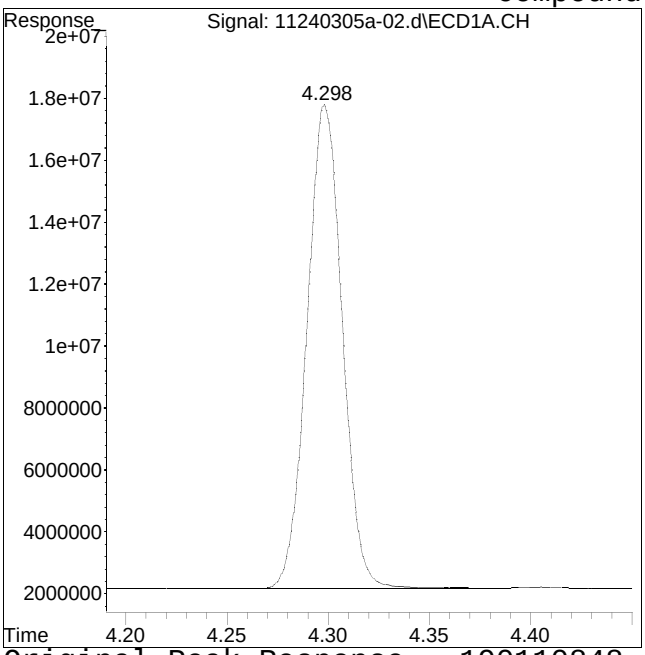


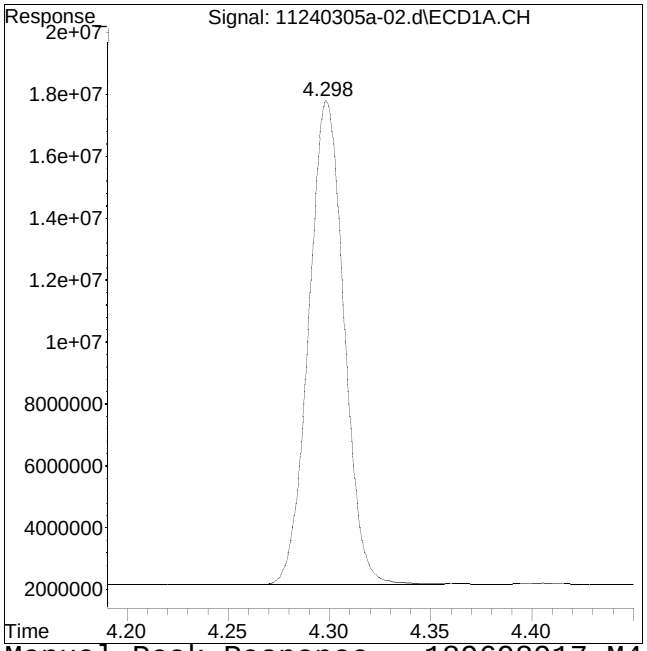
Original Peak Response = 859414 Manual Peak Response = 886549 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-02.d Operator : PEST11:peg
Date Inj'd : 3/5/2024 7:12 am Instrument : Pest 11
Sample : pem11240305a-01,42,,deg113Quant Date : 3/5/2024 7:55 am

Compound #18: Endrin



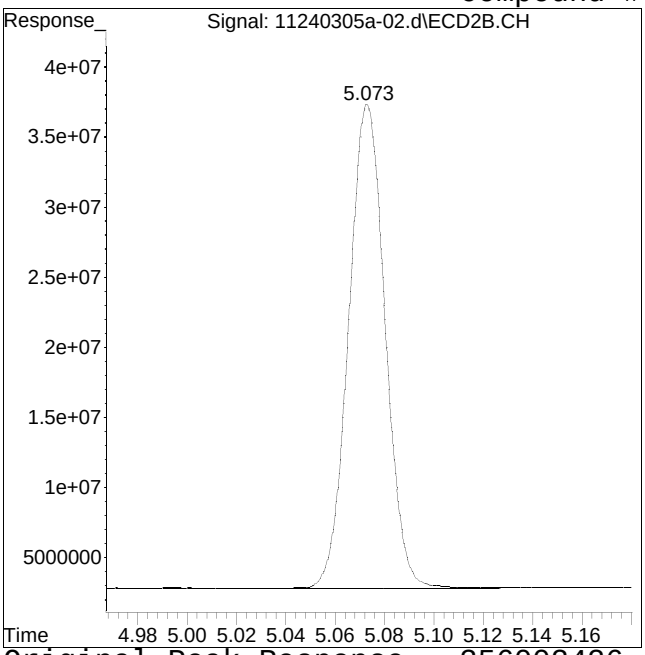


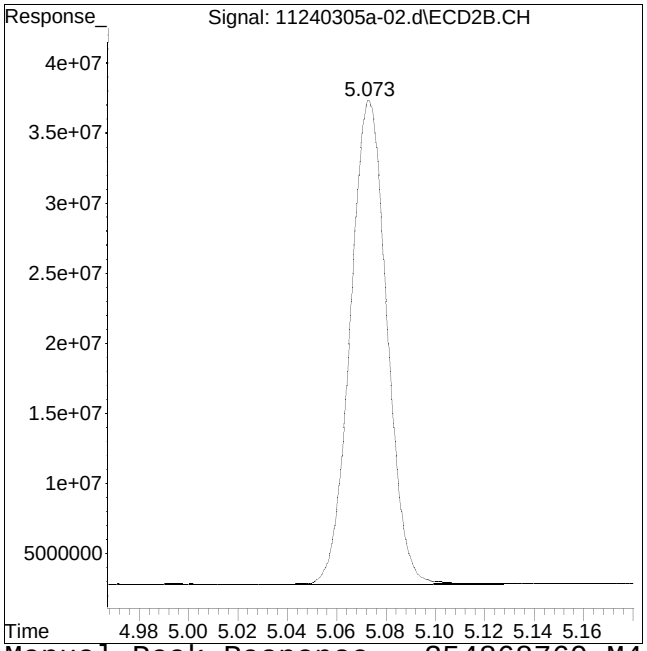
Original Peak Response = 190110848 Manual Peak Response = 189698917 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-02.d Operator : PEST11:peg
Date Inj'd : 3/5/2024 7:12 am Instrument : Pest 11
Sample : pem11240305a-01,42,,deg113Quant Date : 3/5/2024 7:55 am

Compound #56: Endrin #2



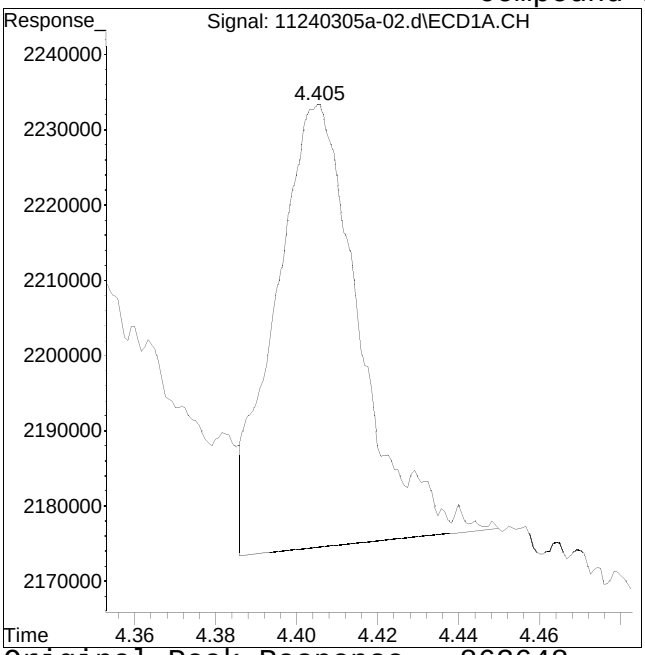


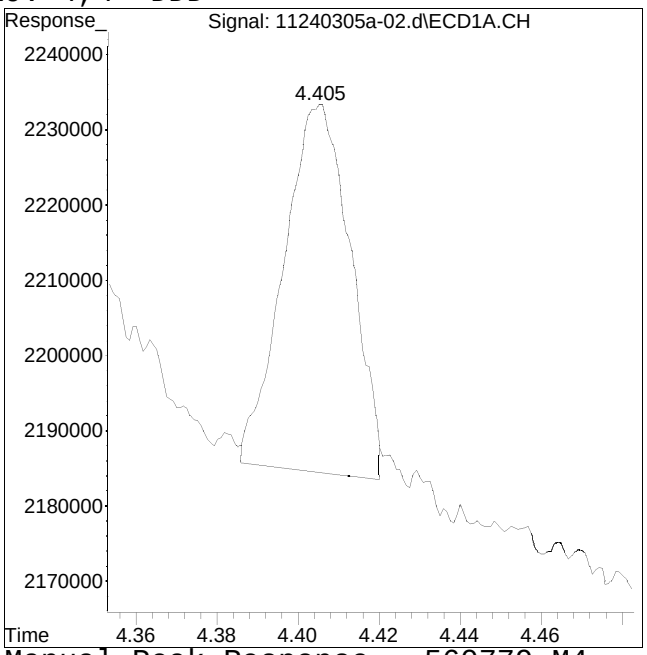
Original Peak Response = 356002426 Manual Peak Response = 354868760 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-02.d Operator : PEST11:peg
Date Inj'd : 3/5/2024 7:12 am Instrument : Pest 11
Sample : pem11240305a-01,42,,deg113Quant Date : 3/5/2024 7:55 am

Compound #19: 4,4'-DDD



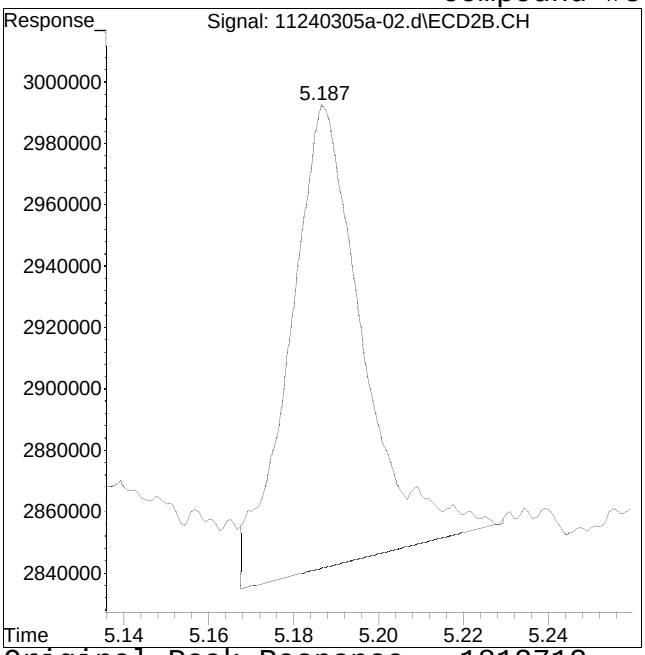


Original Peak Response = 863648 Manual Peak Response = 560779 M4
M4 = Poor automated baseline construction.

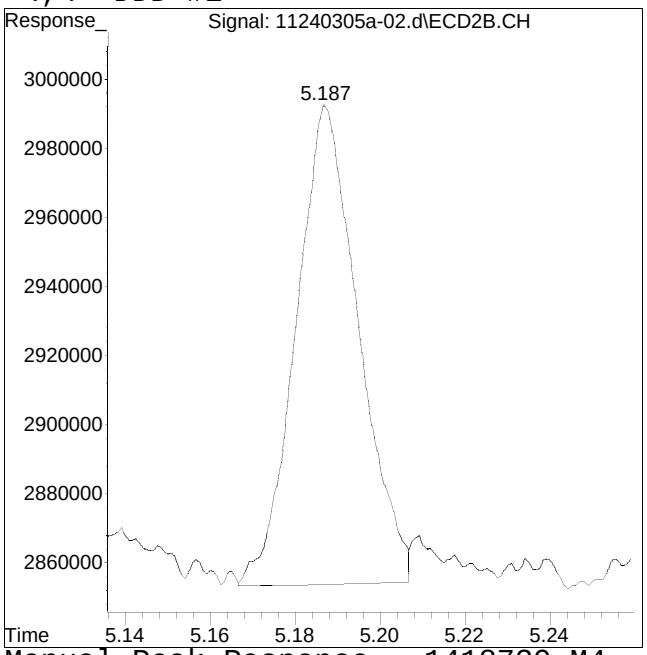
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-02.d Operator : PEST11:peg
Date Inj'd : 3/5/2024 7:12 am Instrument : Pest 11
Sample : pem11240305a-01,42,,deg113Quant Date : 3/5/2024 7:55 am

Compound #57: 4,4'-DDD #2



Original Peak Response = 1812712



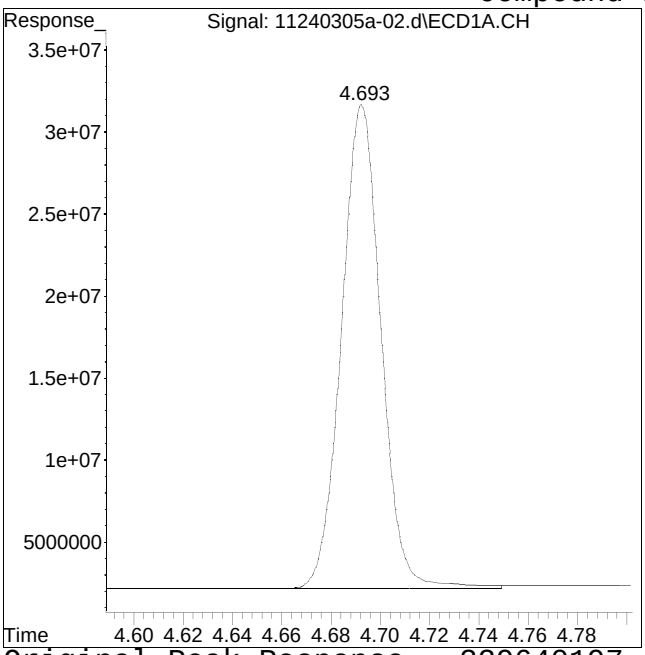
Manual Peak Response = 1418739 M4

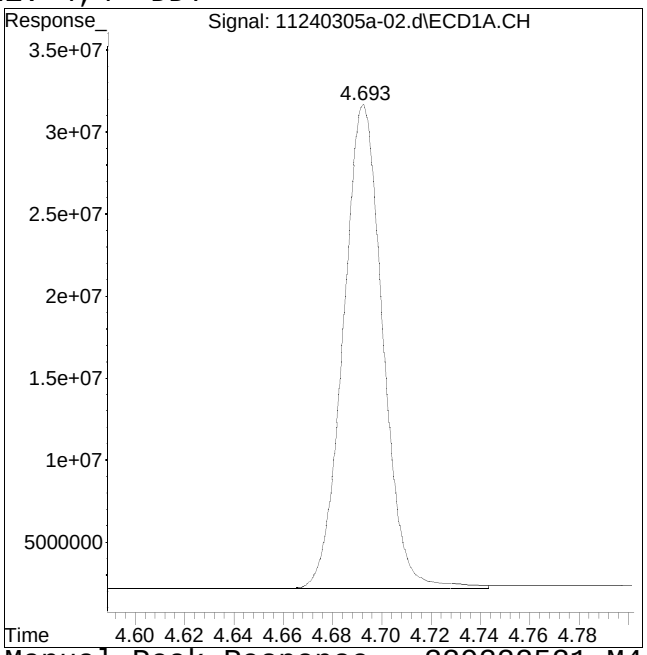
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-02.d Operator : PEST11:peg
Date Inj'd : 3/5/2024 7:12 am Instrument : Pest 11
Sample : pem11240305a-01,42,,deg113Quant Date : 3/5/2024 7:55 am

Compound #21: 4,4'-DDT



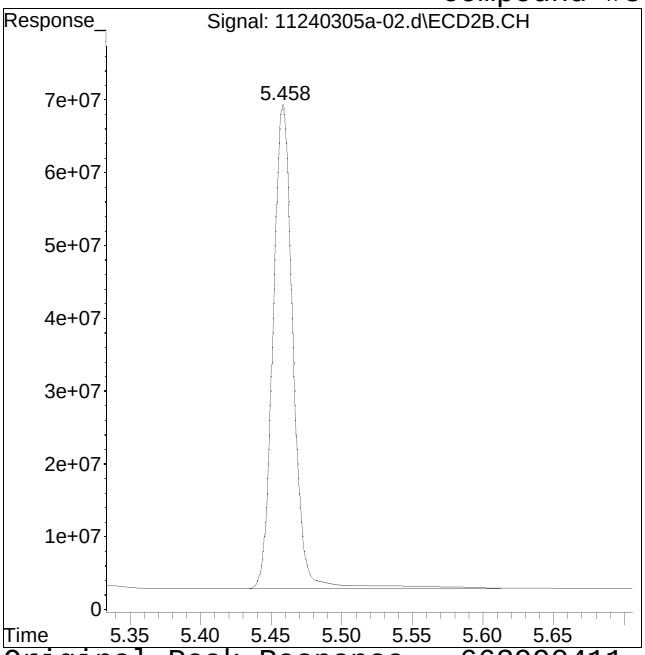


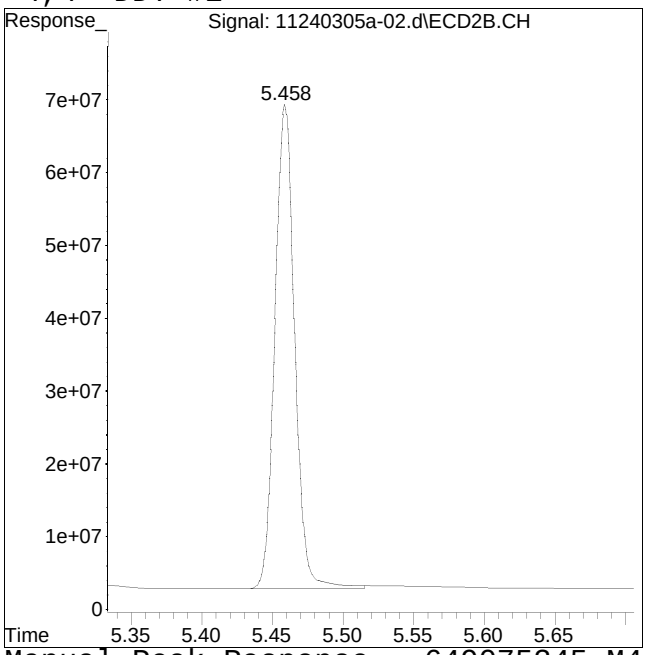
Original Peak Response = 329640197 Manual Peak Response = 329322521 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-02.d Operator : PEST11:peg
Date Inj'd : 3/5/2024 7:12 am Instrument : Pest 11
Sample : pem11240305a-01,42,,deg113Quant Date : 3/5/2024 7:55 am

Compound #59: 4,4'-DDT #2



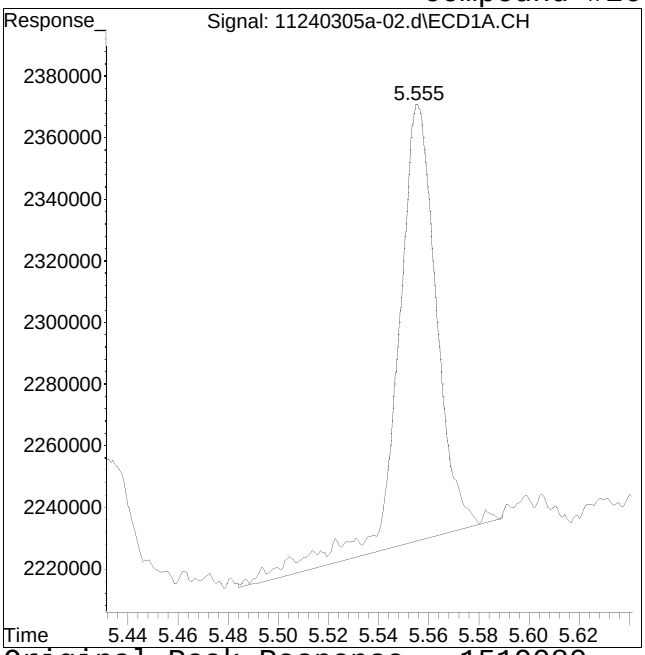


Original Peak Response = 663990411 Manual Peak Response = 649075345 M4
M4 = Poor automated baseline construction.

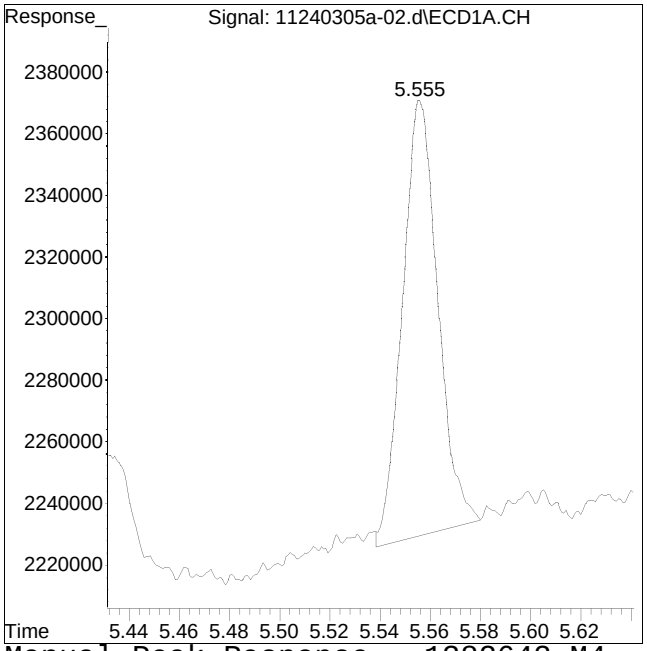
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-02.d Operator : PEST11:peg
Date Inj'd : 3/5/2024 7:12 am Instrument : Pest 11
Sample : pem11240305a-01,42,,deg113Quant Date : 3/5/2024 7:55 am

Compound #26: Endrin Ketone



Original Peak Response = 1519080



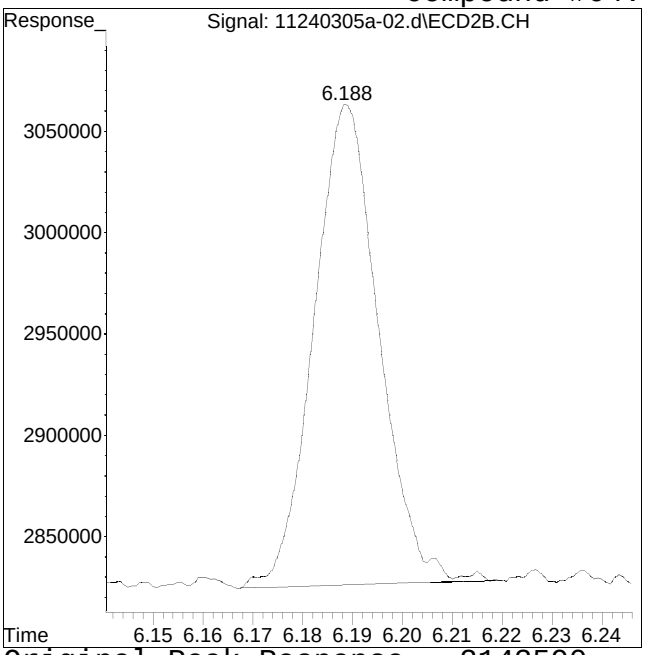
Manual Peak Response = 1382642 M4

M4 = Poor automated baseline construction.

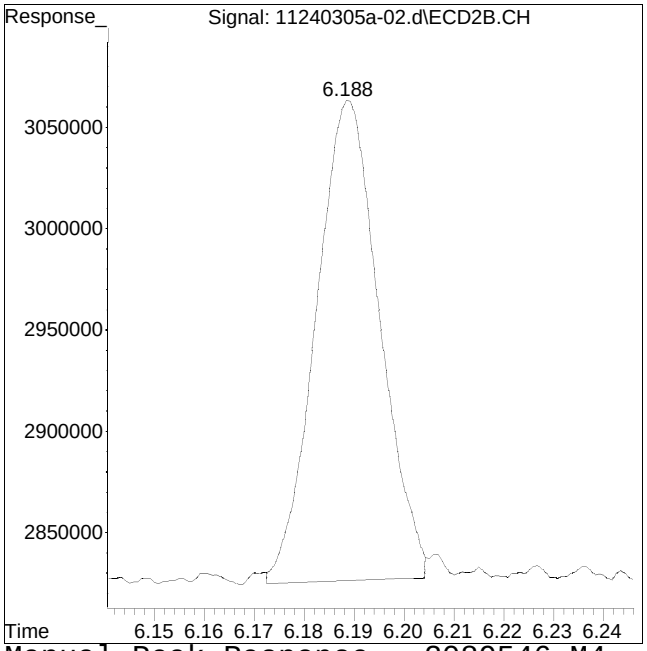
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-02.d Operator : PEST11:peg
Date Inj'd : 3/5/2024 7:12 am Instrument : Pest 11
Sample : pem11240305a-01,42,,deg113Quant Date : 3/5/2024 7:55 am

Compound #64: Endrin Ketone #2



Original Peak Response = 2143590



Manual Peak Response = 2089546 M4

M4 = Poor automated baseline construction.

RT Shift Summary

Identification Summary
Form 10
Pesticides

Client	**: Alpha Geoscience**	**Lab Number**	**: L2410579**
Project Name	**: HUNTINGTON READY MIX**	**Project Number**	**: 20116**

No Detections Found

Pesticides Raw QC Data

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest20\2024\240302a\
Data File : 20240302a-23.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 02 Mar 2024 03:42 pm
Operator : pest20:jag
Sample : WG1891324-1,42,,
Misc : wg1891472,WG1891324,ical20686
ALS Vial : 23 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Mar 02 16:34:59 2024
Quant Method : I:\PEST\Pest20\2024\240302a\pest20_2023_12_15_ugL_ICAL20686.m
Quant Title : pest
QLast Update : Sat Mar 02 08:11:36 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest20\2024\240302a\20240302a-03.D
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards							
1) i	1-br-2-nb_Pe	1.764	1.923	56472935	58946194	25.000M4	25.000M4
	Standard Area 1 : #1 = 54033745				Recovery = 104.51%		
	Standard Area 1 : #2 = 56427660				Recovery = 104.46%		
28) i	1-br-2-nb_Ch	1.764	1.923	56472935	58946194	25.000M4	25.000M4
33) i	1-br-2-nb_To	1.764	1.923	56472935	58946194	25.000M4	25.000M4
System Monitoring Compounds							
2) s	2,4,5,6-Tetr	2.211	2.518	83494097	87808092	32.643M4	30.508M4
	Spiked Amount 50.000	Range 30 - 150			Recovery = 65.29%		61.02%
27) s	Decachlorobi	7.063	7.777	93946438	76817411	42.197M4	35.738M4
	Spiked Amount 50.000	Range 30 - 150			Recovery = 84.39%		71.48%
Target Compounds							
4)	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6)	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8)	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9)	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
12)	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13)	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14)	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17)	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest20\2024\240302a\
Data File : 20240302a-23.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 02 Mar 2024 03:42 pm
Operator : pest20:jag
Sample : WG1891324-1,42,,
Misc : wg1891472,WG1891324,ical20686
ALS Vial : 23 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Mar 02 16:34:59 2024
Quant Method : I:\PEST\Pest20\2024\240302a\pest20_2023_12_15_ugL_ICAL20686.m
Quant Title : pest
QLast Update : Sat Mar 02 08:11:36 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest20\2024\240302a\20240302a-03.D
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
18)	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22)	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d
23)	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
25)	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26)	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum chlordane-1			0	0	N.D.	N.D.
	Average chlordane-1					0.000	0.000
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum toxaphene-1			0	0	N.D.	N.D.
	Average toxaphene-1					0.000	0.000
	SemiQuant Compounds - Not Calibrated on this Instrument						
	Sum toxaphene-1			0	0	N.D.	N.D.
	Average toxaphene-1					0.000	0.000

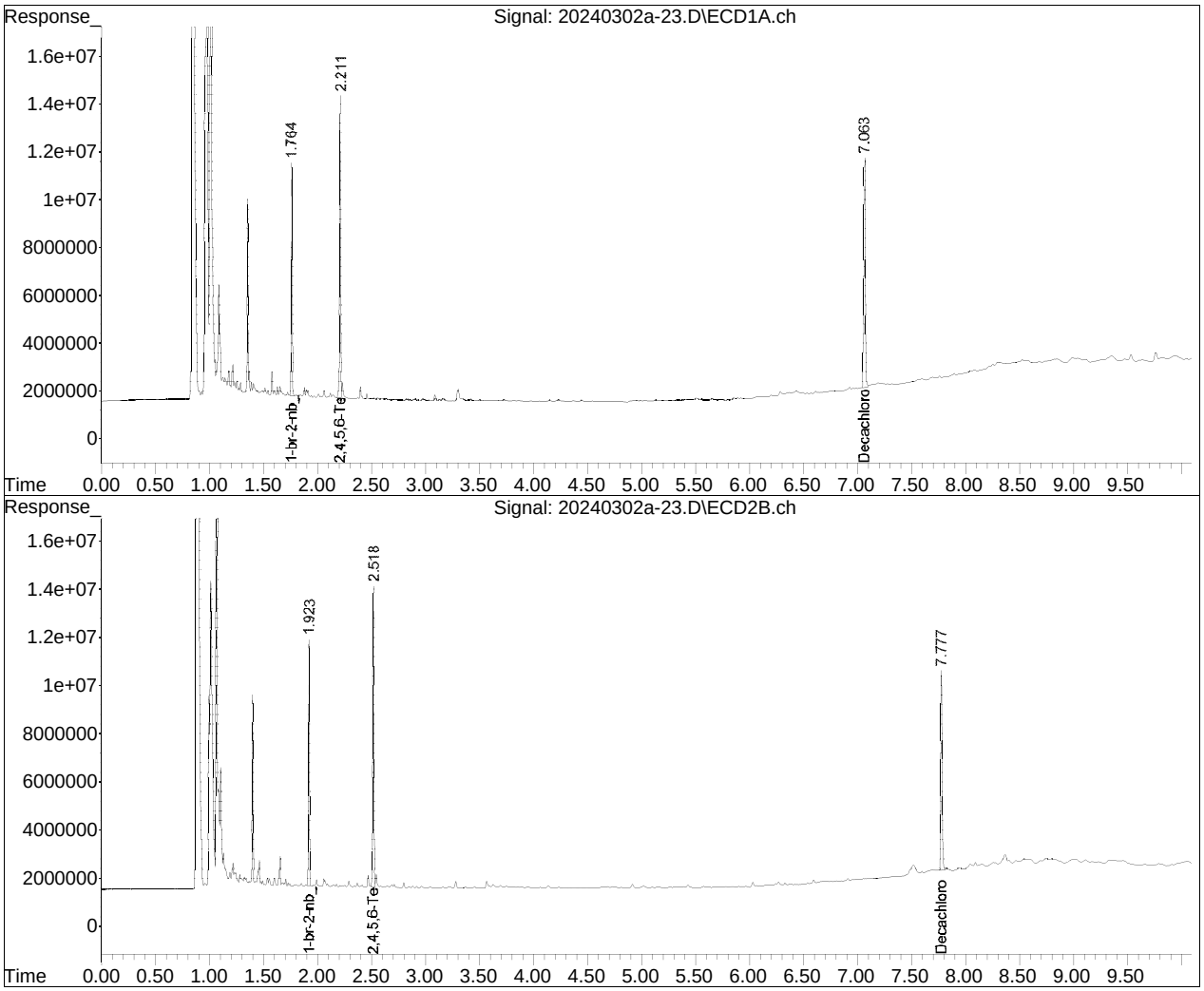
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listeda\20240302a-03.D••

Data Path : I:\PEST\Pest20\2024\240302a\
Data File : 20240302a-23.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 02 Mar 2024 03:42 pm
Operator : pest20:jag
Sample : WG1891324-1,42,,
Misc : wg1891472,WG1891324,ical20686
ALS Vial : 23 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Mar 02 16:34:59 2024
Quant Method : I:\PEST\Pest20\2024\240302a\pest20_2023_12_15_ugL_ICAL20686.m
Quant Title : pest
QLast Update : Sat Mar 02 08:11:36 2024
Response via : Initial Calibration
Integrator: ChemStation

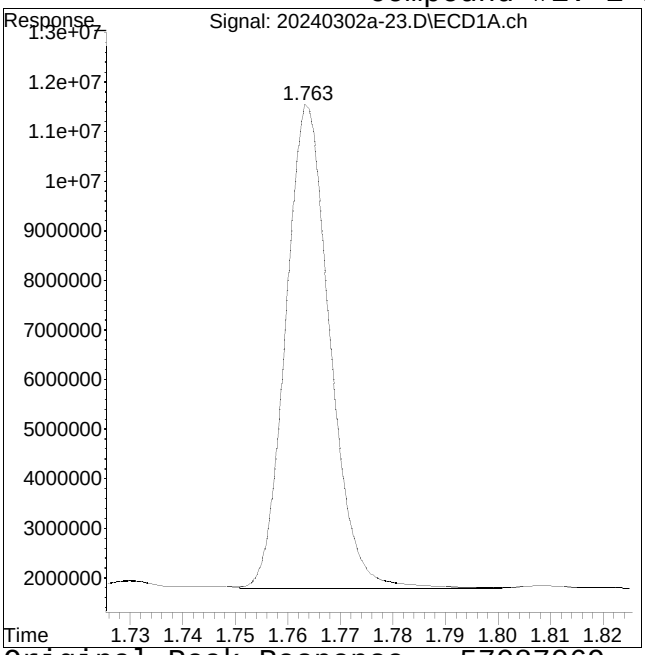
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



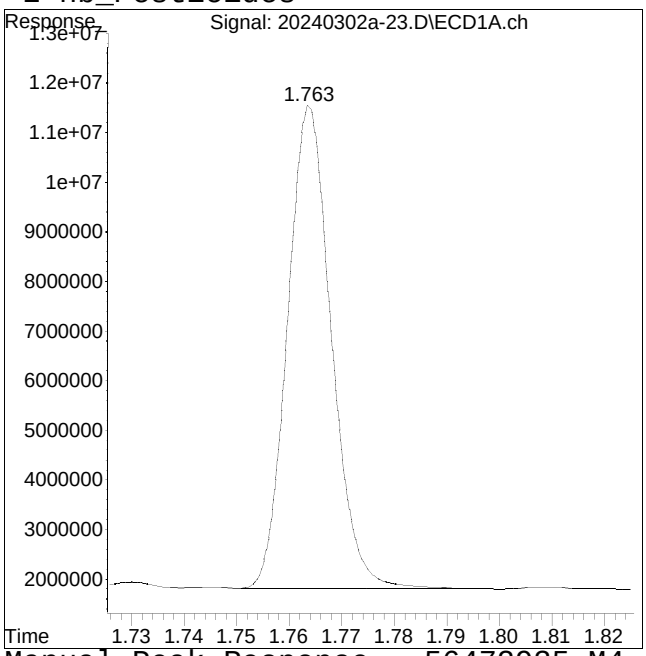
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240302QMethod : pest20_2023_12_15_ugL_IC
Data File : 20240302a-23.D Operator : pest20:jag
Date Inj'd : 3/2/2024 3:42 pm Instrument : PEST 20
Sample : WG1891324-1,42,, Quant Date : 3/2/2024 4:09 pm

Compound #1: 1-br-2-nb_Pesticides



Original Peak Response = 57087069



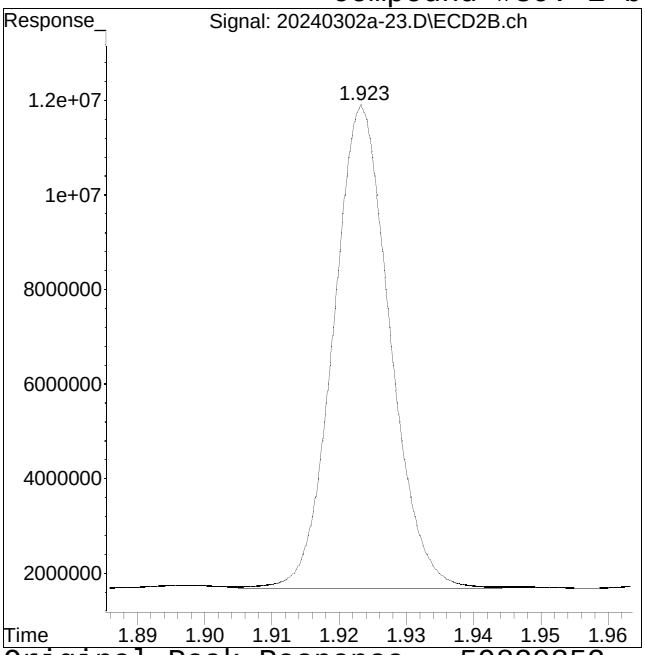
Manual Peak Response = 56472935 M4

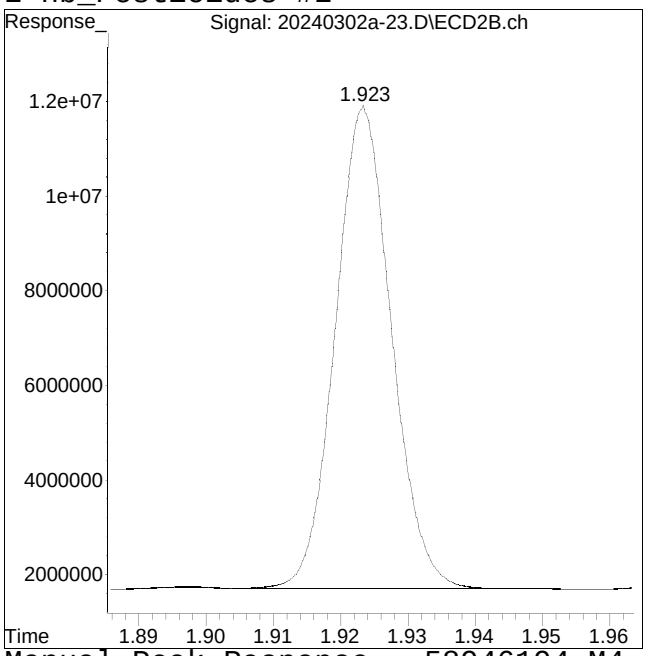
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240302QMethod : pest20_2023_12_15_ugL_IC
Data File : 20240302a-23.D Operator : pest20:jag
Date Inj'd : 3/2/2024 3:42 pm Instrument : PEST 20
Sample : WG1891324-1,42,, Quant Date : 3/2/2024 4:09 pm

Compound #39: 1-br-2-nb_Pesticides #2



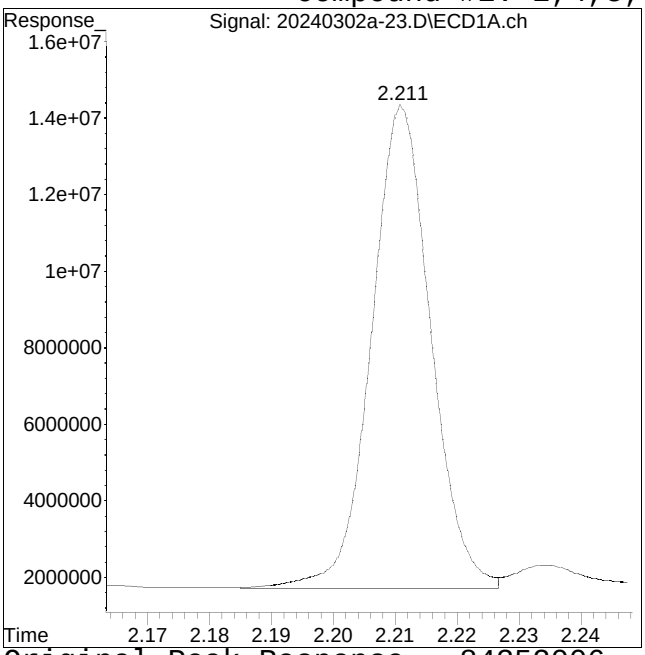


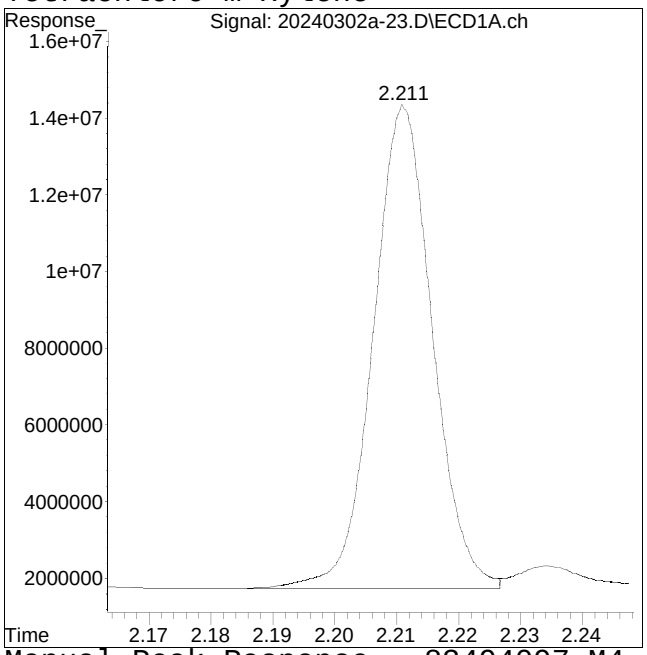
Original Peak Response = 59829352 Manual Peak Response = 58946194 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240302QMethod : pest20_2023_12_15_ugL_IC
Data File : 20240302a-23.D Operator : pest20:jag
Date Inj'd : 3/2/2024 3:42 pm Instrument : PEST 20
Sample : WG1891324-1,42,, Quant Date : 3/2/2024 4:09 pm

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



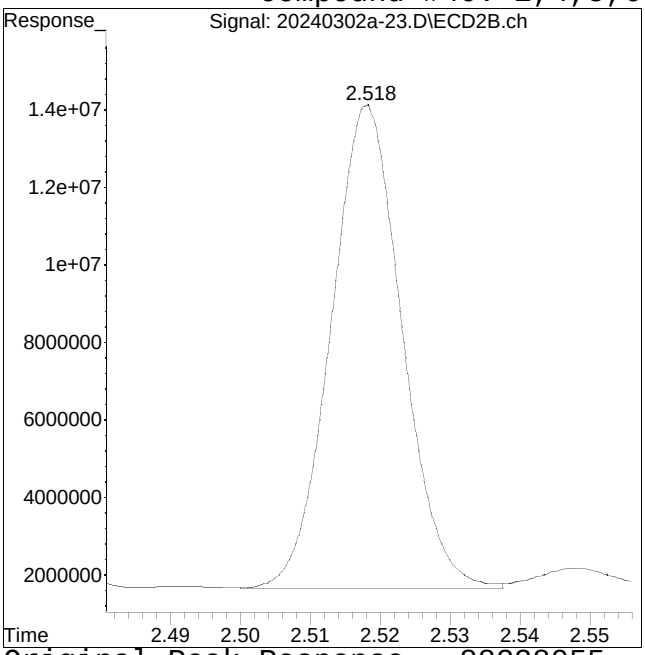


Original Peak Response = 84352006 Manual Peak Response = 83494097 M4
M4 = Poor automated baseline construction.

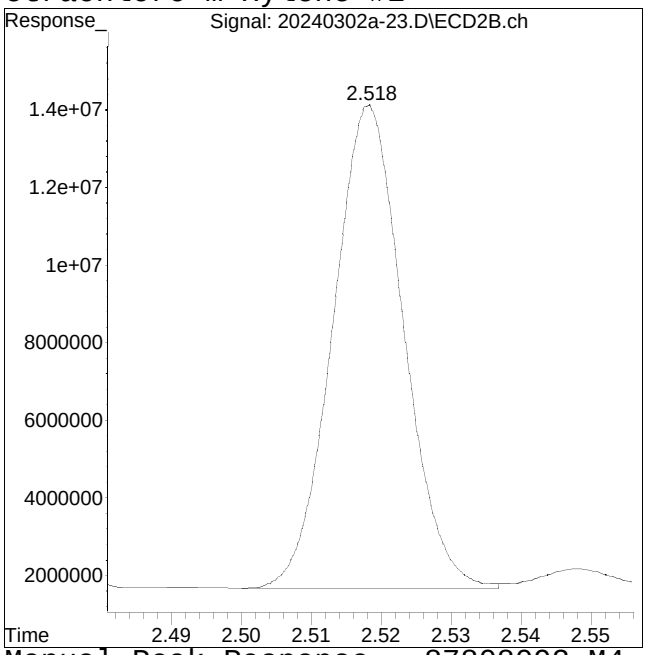
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240302QMethod : pest20_2023_12_15_ugL_IC
Data File : 20240302a-23.D Operator : pest20:jag
Date Inj'd : 3/2/2024 3:42 pm Instrument : PEST 20
Sample : WG1891324-1,42,, Quant Date : 3/2/2024 4:09 pm

Compound #40: 2,4,5,6-Tetrachloro-m-xylene #2



Original Peak Response = 88238055



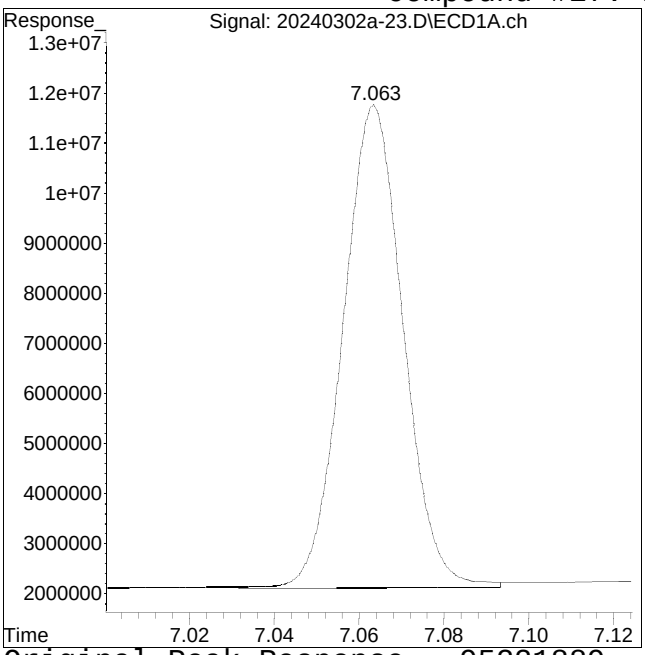
Manual Peak Response = 87808092 M4

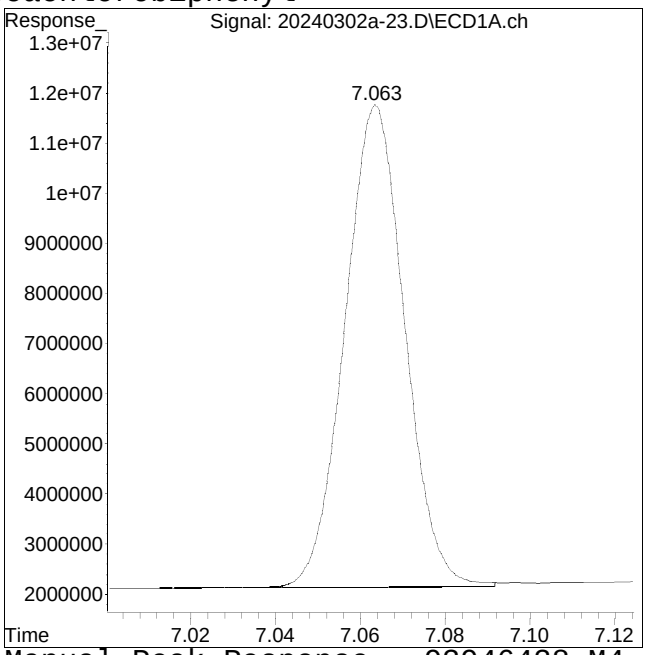
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240302QMethod : pest20_2023_12_15_ugL_IC
Data File : 20240302a-23.D Operator : pest20:jag
Date Inj'd : 3/2/2024 3:42 pm Instrument : PEST 20
Sample : WG1891324-1,42,, Quant Date : 3/2/2024 4:09 pm

Compound #27: Decachlorobiphenyl



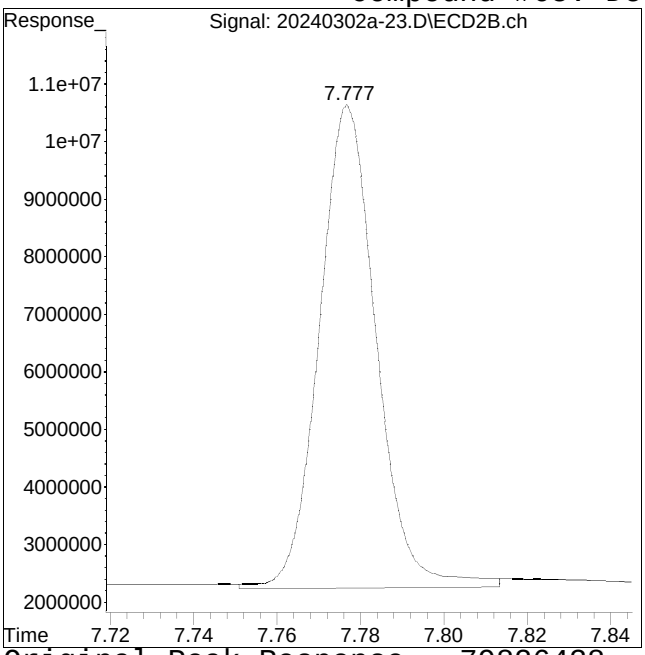


Original Peak Response = 95221889 Manual Peak Response = 93946438 M4
M4 = Poor automated baseline construction.

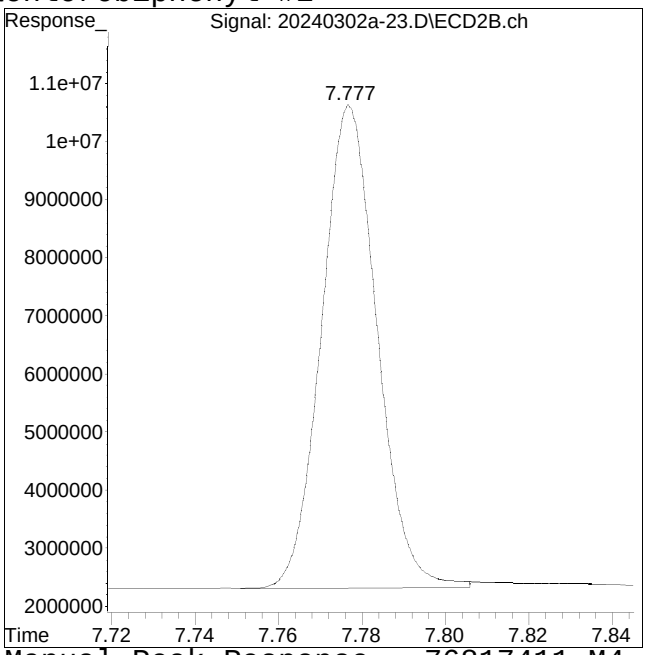
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240302QMethod : pest20_2023_12_15_ugL_IC
Data File : 20240302a-23.D Operator : pest20:jag
Date Inj'd : 3/2/2024 3:42 pm Instrument : PEST 20
Sample : WG1891324-1,42,, Quant Date : 3/2/2024 4:09 pm

Compound #65: Decachlorobiphenyl #2



Original Peak Response = 79826438

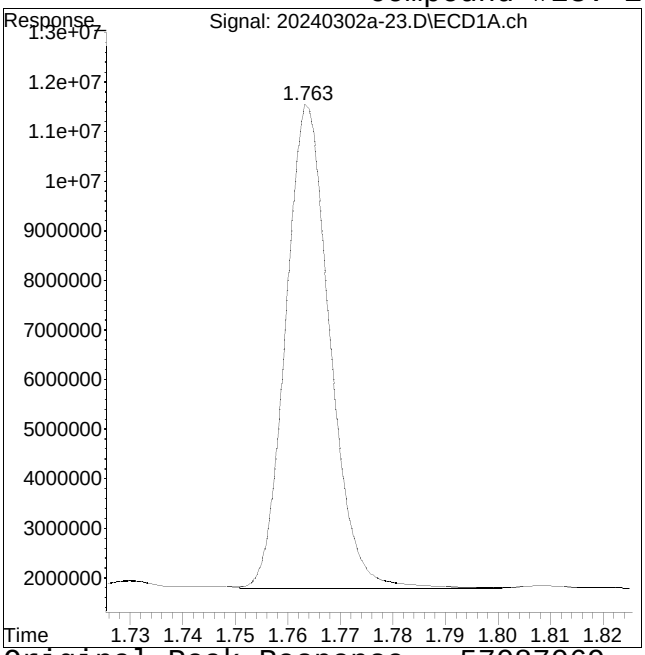


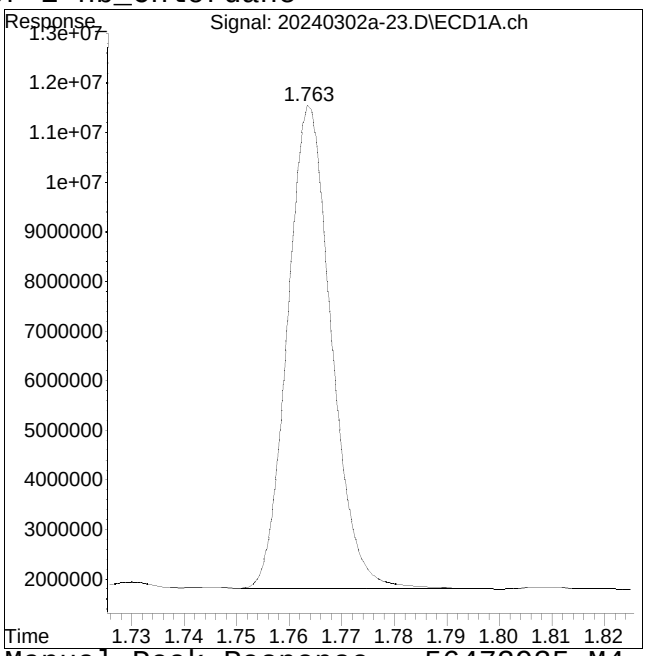
Manual Peak Response = 76817411 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240302QMethod : pest20_2023_12_15_ugL_IC
Data File : 20240302a-23.D Operator : pest20:jag
Date Inj'd : 3/2/2024 3:42 pm Instrument : PEST 20
Sample : WG1891324-1,42,, Quant Date : 3/2/2024 4:09 pm

Compound #28: 1-br-2-nb_Chlordane



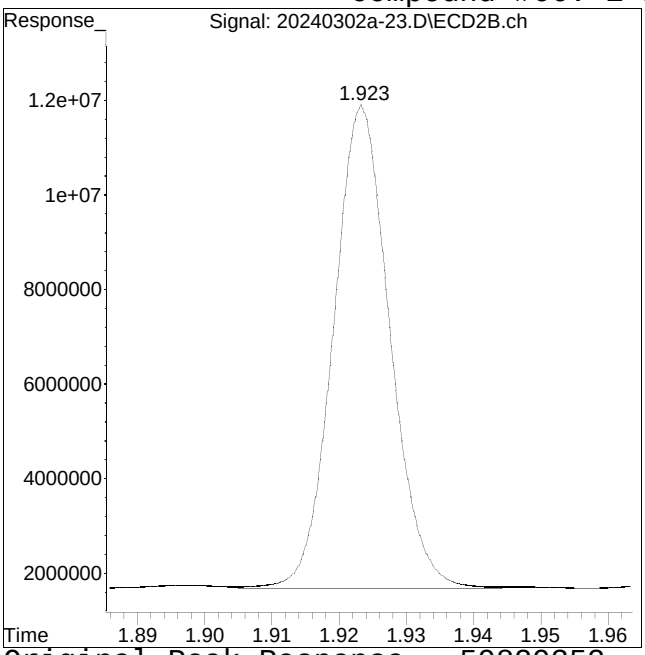


Original Peak Response = 57087069 Manual Peak Response = 56472935 M4
M4 = Poor automated baseline construction.

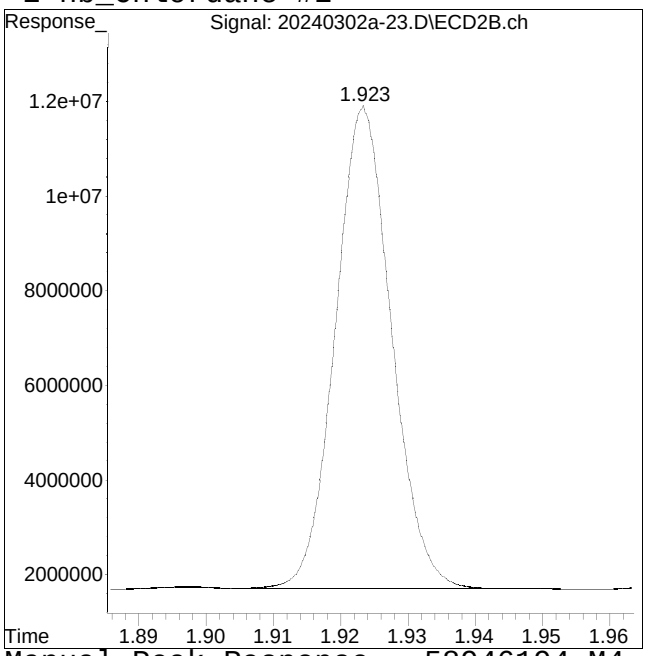
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240302QMethod : pest20_2023_12_15_ugL_IC
Data File : 20240302a-23.D Operator : pest20:jag
Date Inj'd : 3/2/2024 3:42 pm Instrument : PEST 20
Sample : WG1891324-1,42,, Quant Date : 3/2/2024 4:09 pm

Compound #66: 1-br-2-nb_Chlordane #2



Original Peak Response = 59829352



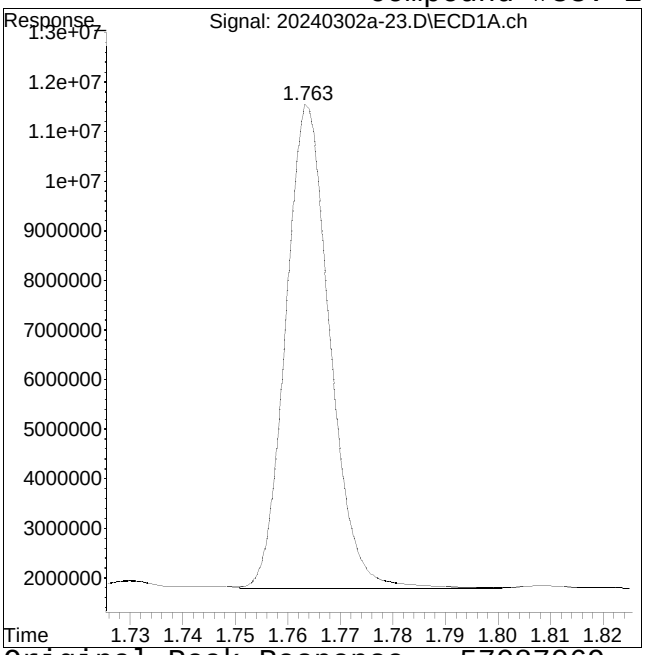
Manual Peak Response = 58946194 M4

M4 = Poor automated baseline construction.

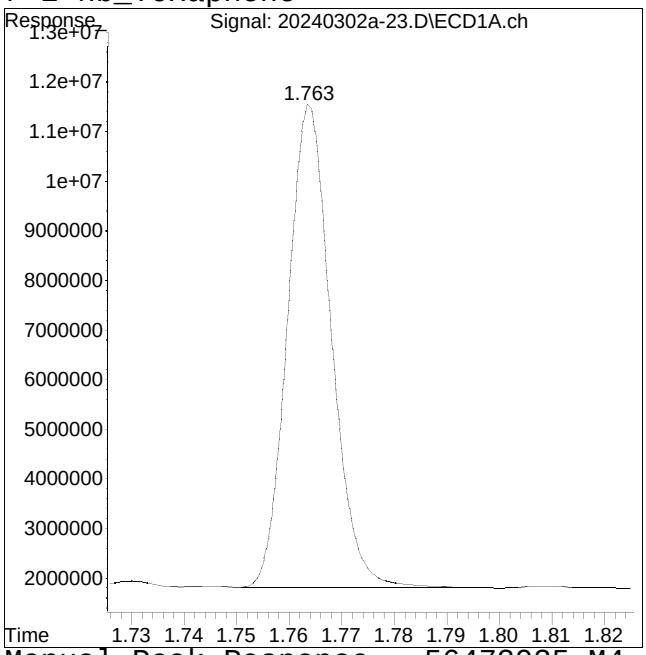
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240302QMethod : pest20_2023_12_15_ugL_IC
Data File : 20240302a-23.D Operator : pest20:jag
Date Inj'd : 3/2/2024 3:42 pm Instrument : PEST 20
Sample : WG1891324-1,42,, Quant Date : 3/2/2024 4:09 pm

Compound #33: 1-br-2-nb_Toxaphene



Original Peak Response = 57087069



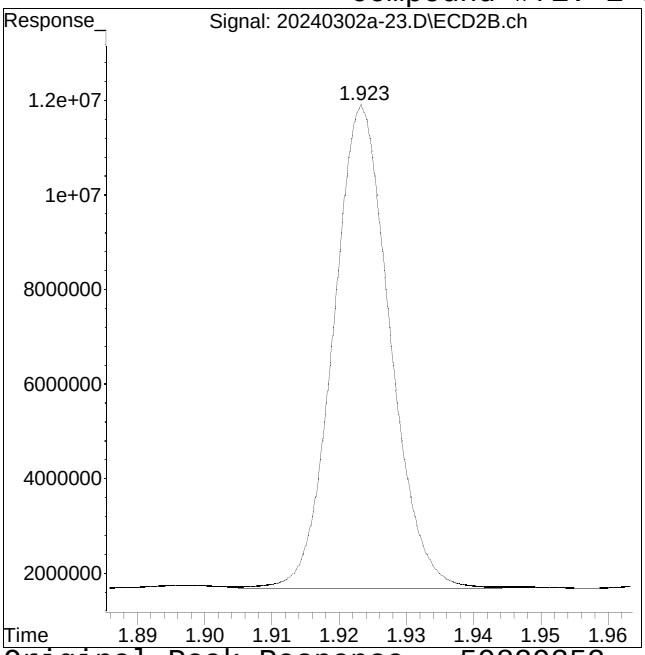
Manual Peak Response = 56472935 M4

M4 = Poor automated baseline construction.

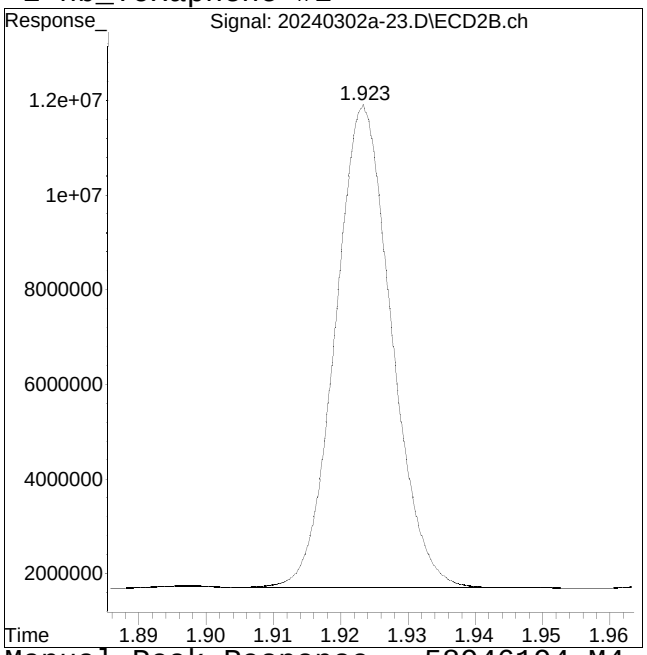
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240302QMethod : pest20_2023_12_15_ugL_IC
Data File : 20240302a-23.D Operator : pest20:jag
Date Inj'd : 3/2/2024 3:42 pm Instrument : PEST 20
Sample : WG1891324-1,42,, Quant Date : 3/2/2024 4:09 pm

Compound #71: 1-br-2-nb_Toxaphene #2



Original Peak Response = 59829352



Manual Peak Response = 58946194 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240305A\
Data File : 11240305a-07.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 05 Mar 2024 8:39 am
Operator : PEST11:mmg
Sample : WG1892124-1,42,,
Misc : wg1892239,WG1892124,ical20697
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 05 10:58:05 2024
Quant Method : I:\PEST\Pest11\2024\240305A\pest11_12_19_23_ugL_ICAL20697.M
Quant Title : pest
QLast Update : Tue Mar 05 08:15:23 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest11\2024\240305A\11240305a-03.d
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards							
1) i	1-br-2-nb_Pe	1.352	1.452	125.5E6	210.9E6	25.000	25.000
	Standard Area 1 : #1 = 83711596				Recovery = 149.92%		
	Standard Area 1 : #2 = 125546766				Recovery = 167.98%		
28) i	1-br-2-nb_Ch	1.352	1.452	125.5E6	210.9E6	25.000	25.000
33) i	1-br-2-nb_To	1.352	1.452	125.5E6	210.9E6	25.000	25.000
System Monitoring Compounds							
2) s	2,4,5,6-Tetr	1.702	1.948	147.9E6	251.2E6	30.765M3	29.913M4
	Spiked Amount	50.000	Range 30 - 150		Recovery =	61.53%	59.83%
27) s	Decachlorobi	6.354	7.040	214.5E6	271.9E6	47.498M4	41.537M3
	Spiked Amount	50.000	Range 30 - 150		Recovery =	95.00%	83.07%
Target Compounds							
4) t	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5) t	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6) t	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7) t	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8) t	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9) t	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
12) t	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13) t	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14) t	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15) t	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17) t	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18) t	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19) t	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest11\2024\240305A\
Data File : 11240305a-07.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 05 Mar 2024 8:39 am
Operator : PEST11:mmg
Sample : WG1892124-1,42,,
Misc : wg1892239,WG1892124,ical20697
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 05 10:58:05 2024
Quant Method : I:\PEST\Pest11\2024\240305A\pest11_12_19_23_ugL_ICAL20697.M
Quant Title : pest
QLast Update : Tue Mar 05 08:15:23 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest11\2024\240305A\11240305a-03.d
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
21) t 4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22) t Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d
23) t Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
25) t Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26) t Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1 chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l1 chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1 chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1 chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum chlordane-1			0	0	N.D.	N.D.
Average chlordane-1					0.000	0.000
34) l2 toxaphene-2	0.000	0.000	0	0	N.D.	N.D.
35) l2 toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d
36) l2 toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2 toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum toxaphene-2			0	0	N.D.	N.D.
Average toxaphene-2					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument						
Sum toxaphene-2			0	0	N.D.	N.D.
Average toxaphene-2					0.000	0.000

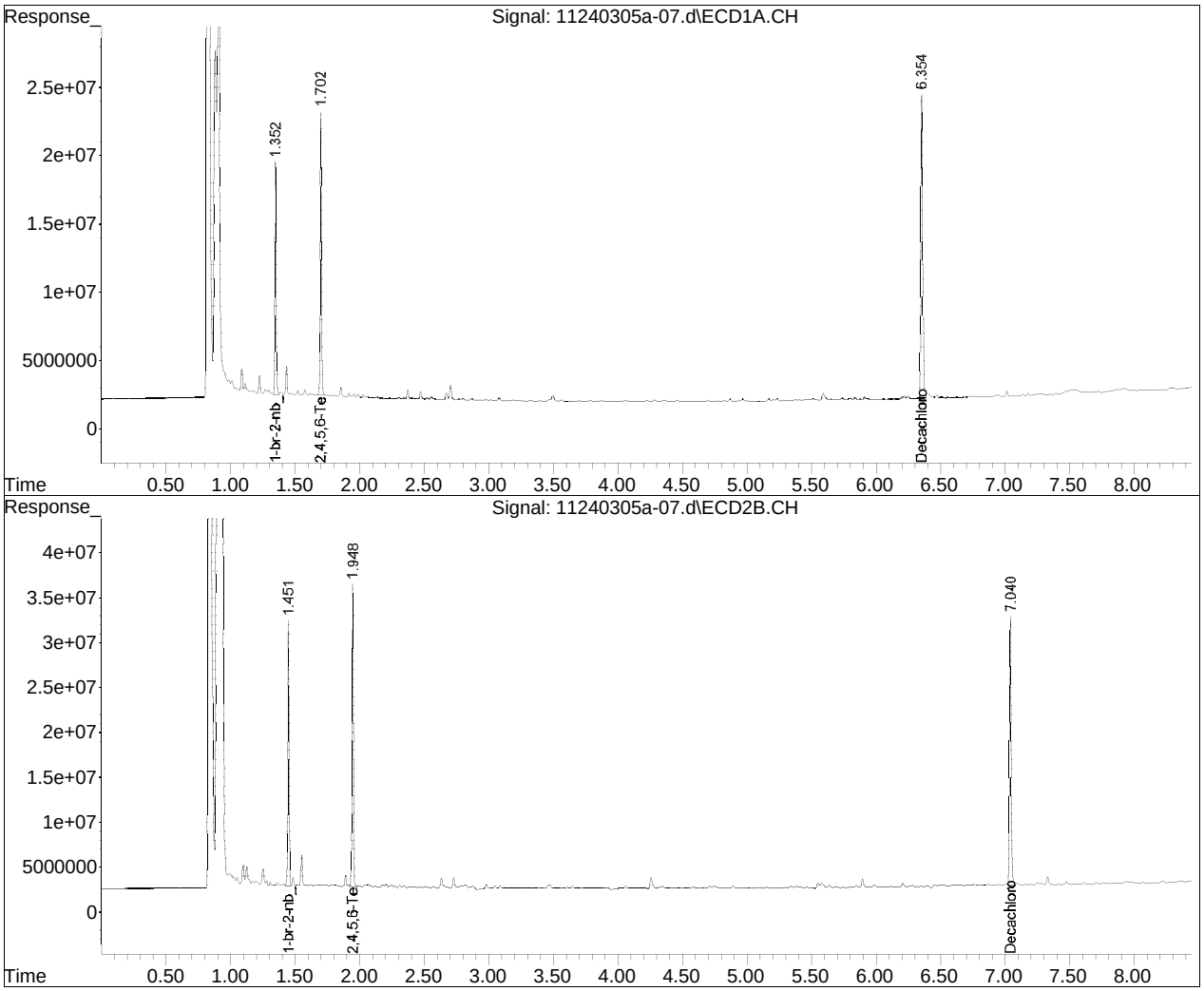
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listedA\11240305a-03.d••

Data Path : I:\PEST\Pest11\2024\240305A\
Data File : 11240305a-07.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 05 Mar 2024 8:39 am
Operator : PEST11:mmg
Sample : WG1892124-1,42,,
Misc : wg1892239,WG1892124,ical20697
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 05 10:58:05 2024
Quant Method : I:\PEST\Pest11\2024\240305A\pest11_12_19_23_ugL_ICAL20697.M
Quant Title : pest
QLast Update : Tue Mar 05 08:15:23 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

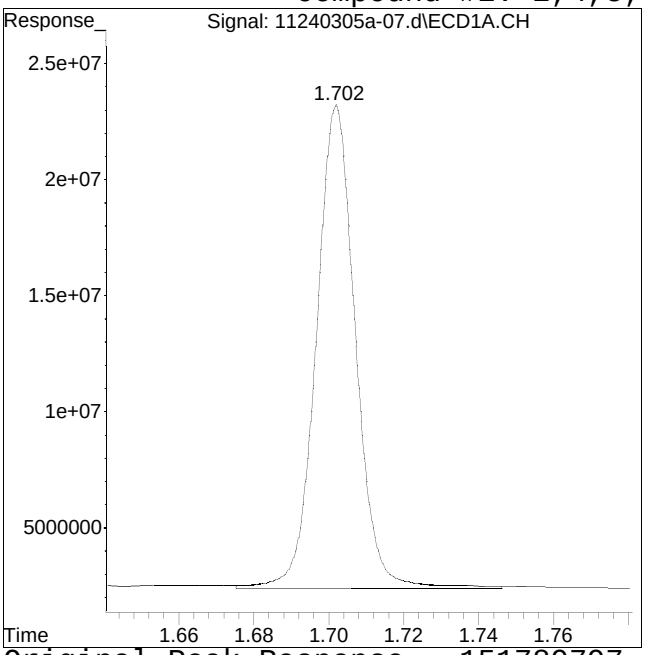
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

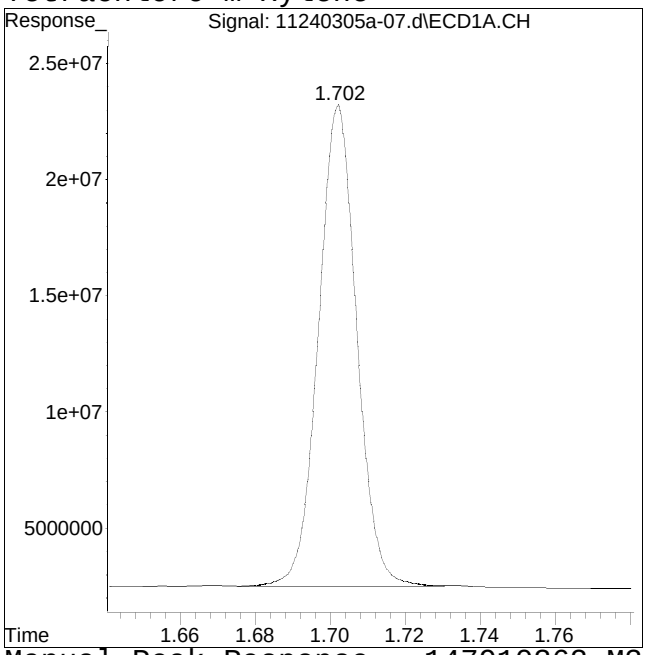


Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-07.d Operator : PEST11:mmg
Date Inj'd : 3/5/2024 8:39 am Instrument : Pest 11
Sample : WG1892124-1,42,, Quant Date : 3/5/2024 10:54 am

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



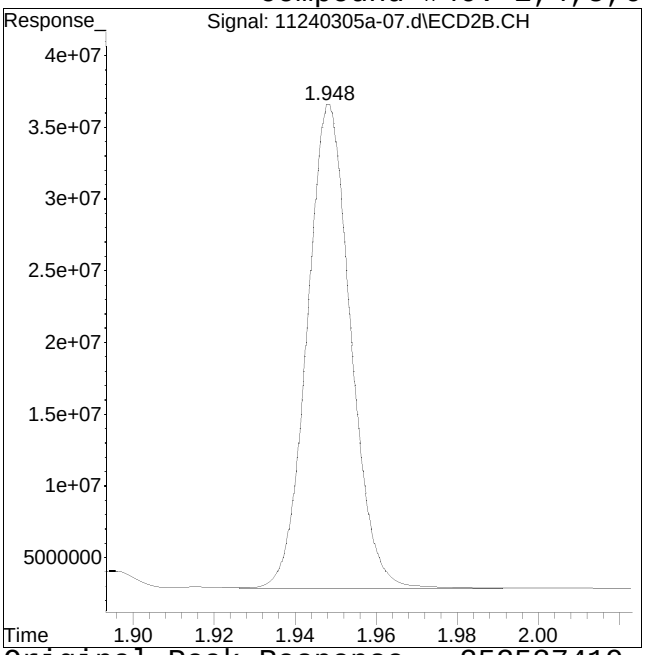


Original Peak Response = 151789797 Manual Peak Response = 147910362 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

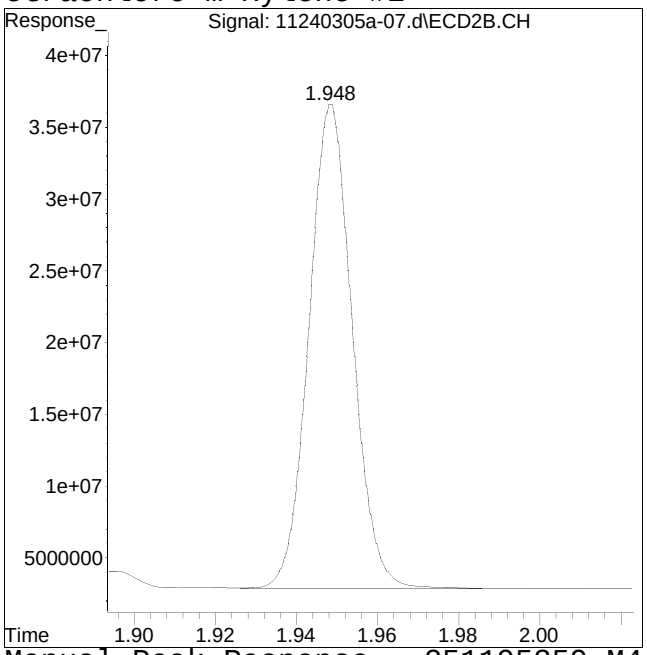
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-07.d Operator : PEST11:mmg
Date Inj'd : 3/5/2024 8:39 am Instrument : Pest 11
Sample : WG1892124-1,42,, Quant Date : 3/5/2024 10:54 am

Compound #40: 2,4,5,6-Tetrachloro-m-xylene #2



Original Peak Response = 252537419



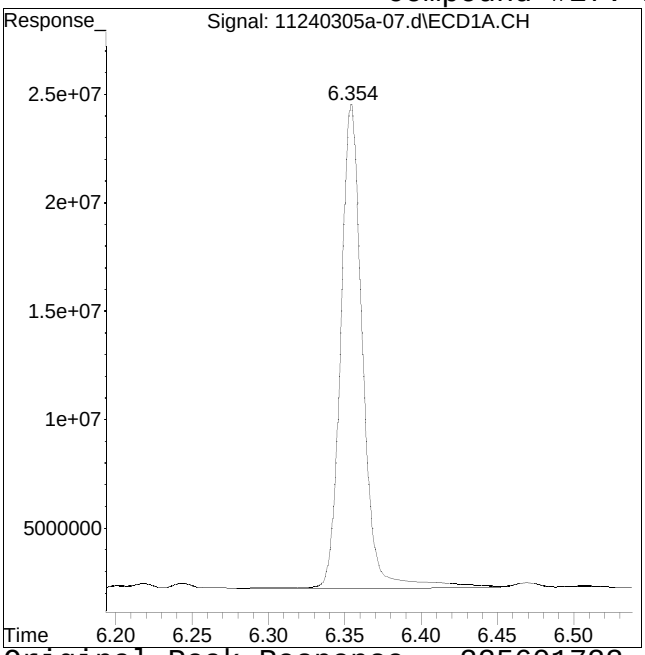
Manual Peak Response = 251195359 M4

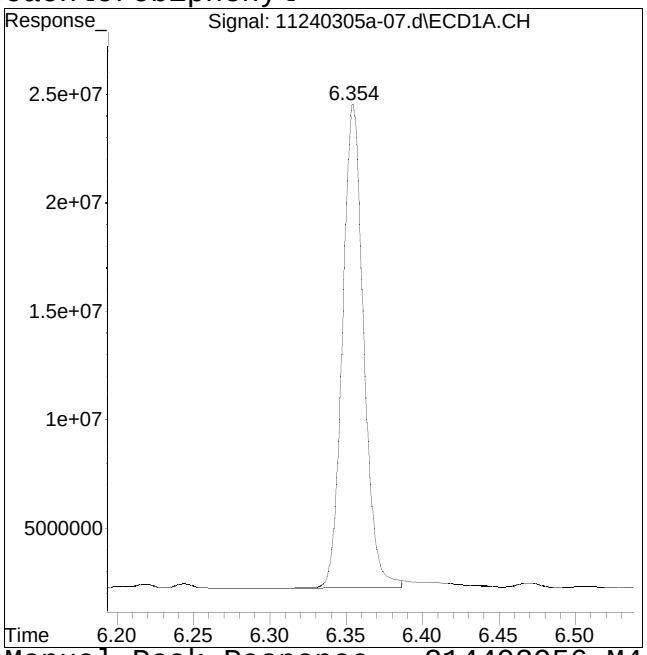
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-07.d Operator : PEST11:mmg
Date Inj'd : 3/5/2024 8:39 am Instrument : Pest 11
Sample : WG1892124-1,42,, Quant Date : 3/5/2024 10:54 am

Compound #27: Decachlorobiphenyl



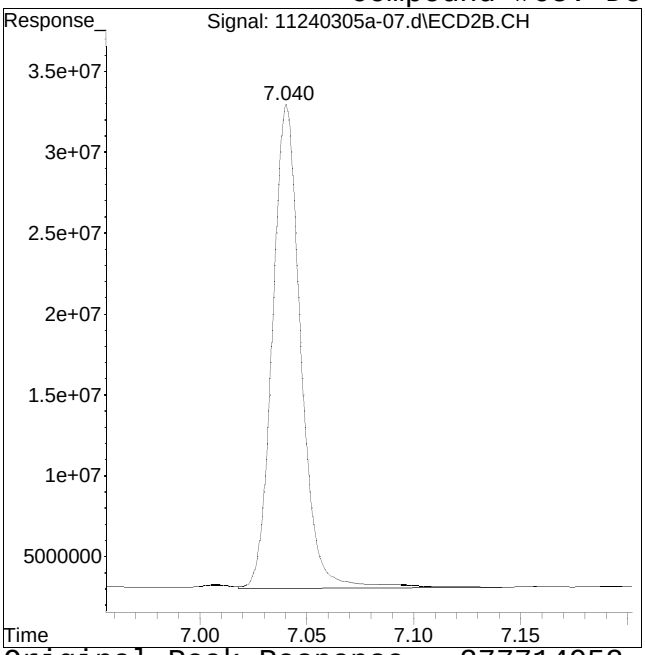


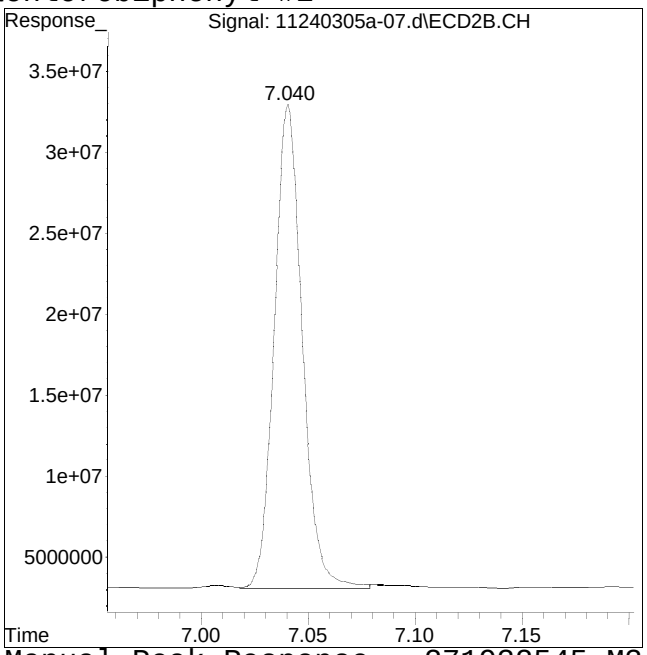
Original Peak Response = 225601723 Manual Peak Response = 214493956 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-07.d Operator : PEST11:mmg
Date Inj'd : 3/5/2024 8:39 am Instrument : Pest 11
Sample : WG1892124-1,42,, Quant Date : 3/5/2024 10:54 am

Compound #65: Decachlorobiphenyl #2





Original Peak Response = 277714952 Manual Peak Response = 271932545 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest20\2024\240302a\
Data File : 20240302a-24.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 02 Mar 2024 03:54 pm
Operator : pest20:jag
Sample : WG1891324-2,42,,
Misc : wg1891472,WG1891324,ical20686
ALS Vial : 24 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Mar 02 16:39:04 2024
Quant Method : I:\PEST\Pest20\2024\240302a\pest20_2023_12_15_ugL_ICAL20686.m
Quant Title : pest
QLast Update : Sat Mar 02 08:11:36 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest20\2024\240302a\20240302a-03.D
Sub List : LCS_MS - spk only

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards							
1) i	1-br-2-nb_Pe	1.763	1.923	60729821	63745722	25.000M4	25.000M4
	Standard Area 1 : #1 = 54033745				Recovery = 112.39%		
	Standard Area 1 : #2 = 56427660				Recovery = 112.97%		
System Monitoring Compounds							
2) s	2,4,5,6-Tetr	2.211	2.518	65460951	69336324	23.799M4	22.277M4
	Spiked Amount 50.000	Range 30 - 150		Recovery = 47.60%		44.55%	
27) s	Decachlorobi	7.062	7.775	69380398	57688075	28.429M4	24.242M4
	Spiked Amount 50.000	Range 30 - 150		Recovery = 56.86%		48.48%	
Target Compounds							
4)	alpha-BHC	2.578	2.996	94431737	93024678	27.765	24.994
5)	gamma-BHC (l	2.807	3.311	87737206	87134897	27.826	25.137
6)	beta-BHC	2.874	3.387	42480717	43911340	31.740	28.827
7)	delta-BHC	3.013	3.673	76808947	73246965	25.293	21.249M4
8)	Heptachlor	3.186	3.739	79991726	75370713	30.841M4	24.799M4
9)	Aldrin	3.446	4.079	72725292	69667486	23.777M4	21.737
12)	Heptachlor E	4.026	4.728	78475347	74042954	31.106	26.390M4
13)	gamma-Chlord	4.156	4.953	77420881	73541962	28.803	26.622
14)	alpha-Chlord	4.297	5.116	76866021	73791616	28.342	26.254
15)	4,4'-DDE	4.403	5.308	76808573	72161731	26.309	23.815
16)	Endosulfan I	4.437	5.175	74517850	71206513	30.489	24.575
17)	Dieldrin	4.707	5.460	83809735	79533497	29.982	27.167
18)	Endrin	4.965	5.754	81903855	74734112	30.130	25.679
19)	4,4'-DDD	5.081	5.873	66957202	64059867	30.589M4	27.449
20)	Endosulfan I	5.207	5.951	72894186	67868507	29.419M4	25.887M4
21)	4,4'-DDT	5.374	6.148	68374855	64931645	31.685M4	27.555

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest20\2024\240302a\
Data File : 20240302a-24.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 02 Mar 2024 03:54 pm
Operator : pest20:jag
Sample : WG1891324-2,42,,
Misc : wg1891472,WG1891324,ical20686
ALS Vial : 24 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Mar 02 16:39:04 2024
Quant Method : I:\PEST\Pest20\2024\240302a\pest20_2023_12_15_ugL_ICAL20686.m
Quant Title : pest
QLast Update : Sat Mar 02 08:11:36 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest20\2024\240302a\20240302a-03.D
Sub List : LCS_MS - spk only

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
22) Endrin Aldeh	5.627	6.245	49101463	48538494	26.078M4	23.810
23) Methoxychlor	5.864	6.708	43257357	37319571	42.233	32.687
25) Endosulfan S	6.021	6.473	66203416	61738188	27.516M4	24.536
26) Endrin Keton	6.249	6.886	79345246	76787688	31.234M4	28.248M4
Sum chlordane-1			0	0	N.D.	N.D.
Average chlordane-1					0.000	0.000
Sum toxaphene-1			0	0	N.D.	N.D.
Average toxaphene-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument						
Sum toxaphene-1			0	0	N.D.	N.D.
Average toxaphene-1					0.000	0.000

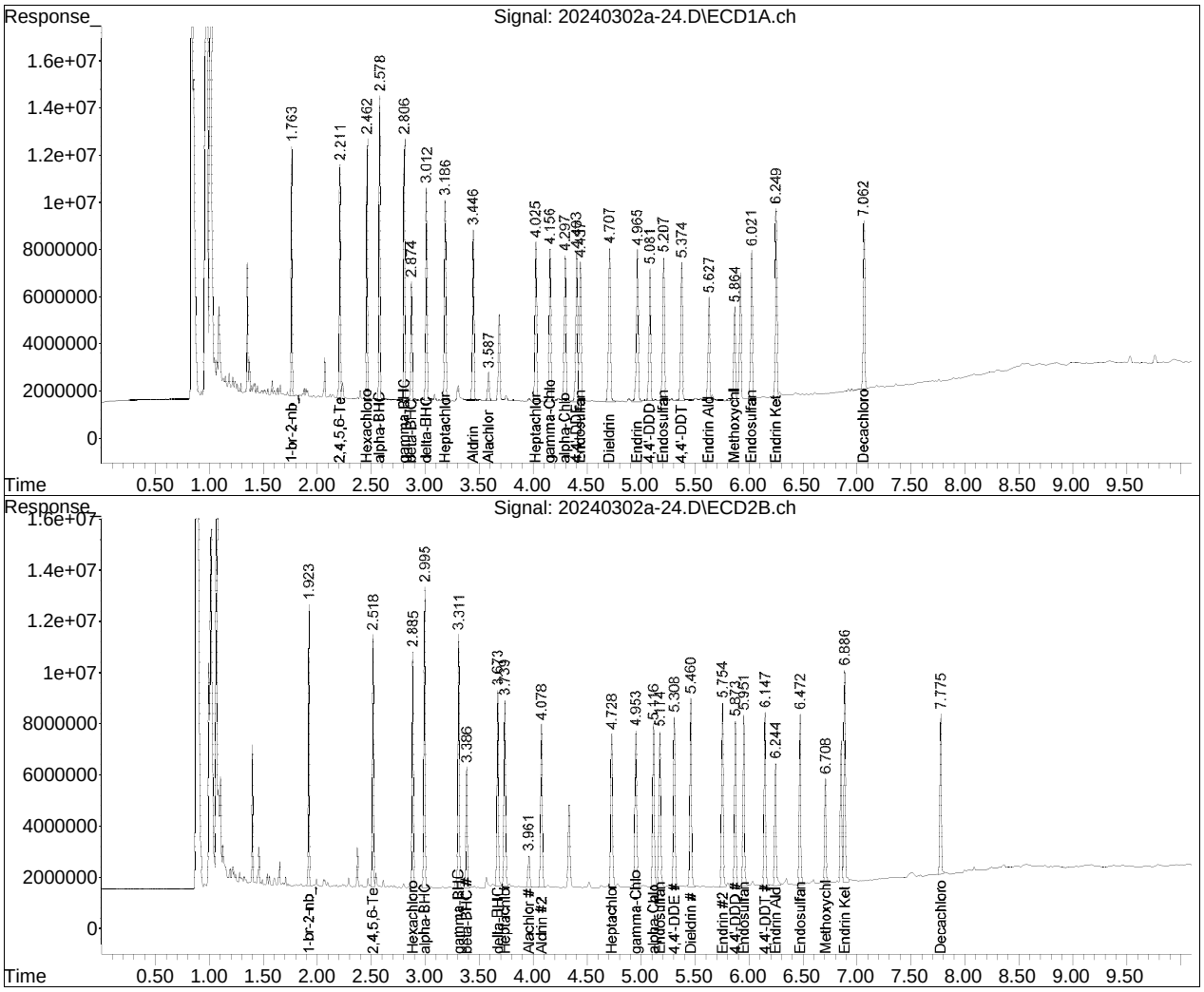
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : LCS_MS - spk only0\2024\240302a\20240302a-03.D••

Data Path : I:\PEST\Pest20\2024\240302a\
Data File : 20240302a-24.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 02 Mar 2024 03:54 pm
Operator : pest20:jag
Sample : WG1891324-2,42,,
Misc : wg1891472,WG1891324,ical20686
ALS Vial : 24 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Mar 02 16:39:04 2024
Quant Method : I:\PEST\Pest20\2024\240302a\pest20_2023_12_15_ugL_ICAL20686.m
Quant Title : pest
QLast Update : Sat Mar 02 08:11:36 2024
Response via : Initial Calibration
Integrator: ChemStation

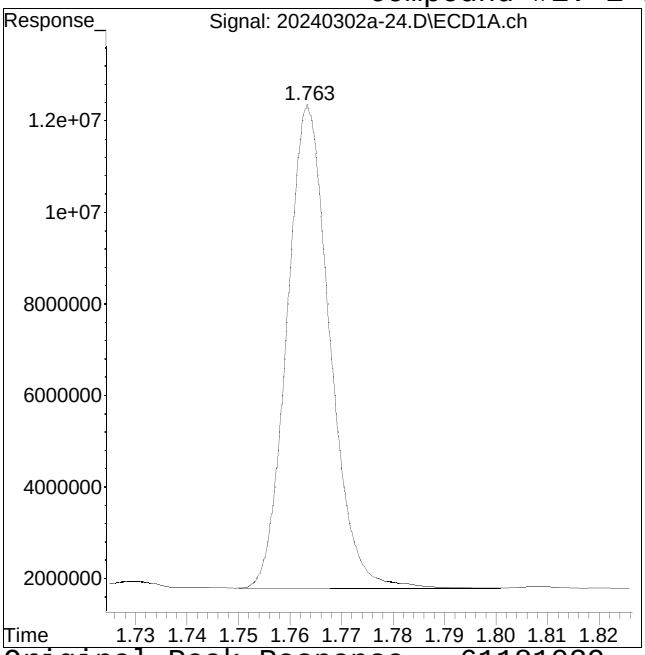
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

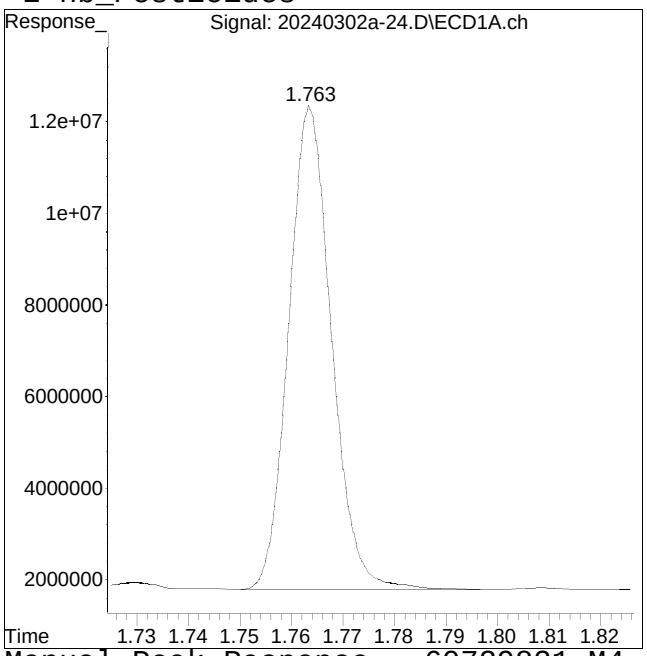


Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240302QMethod : pest20_2023_12_15_ugL_IC
Data File : 20240302a-24.D Operator : pest20:jag
Date Inj'd : 3/2/2024 3:54 pm Instrument : PEST 20
Sample : WG1891324-2,42,, Quant Date : 3/2/2024 4:09 pm

Compound #1: 1-br-2-nb_Pesticides



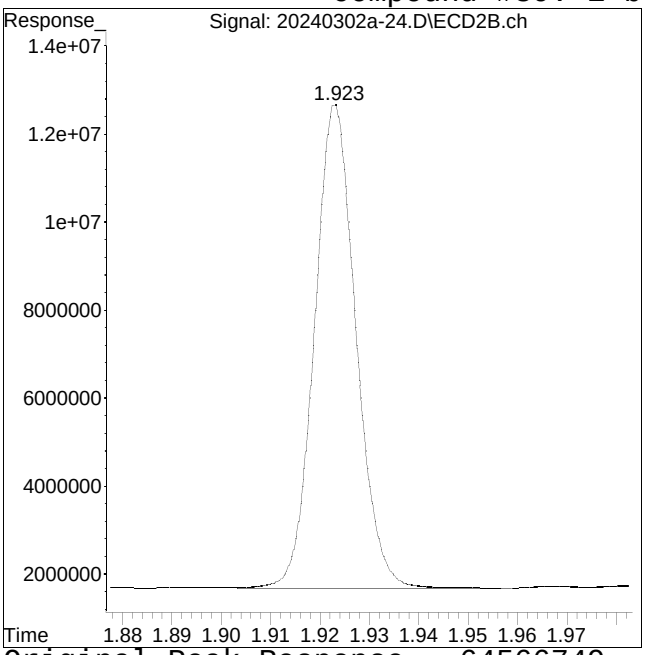


Original Peak Response = 61181039 Manual Peak Response = 60729821 M4
M4 = Poor automated baseline construction.

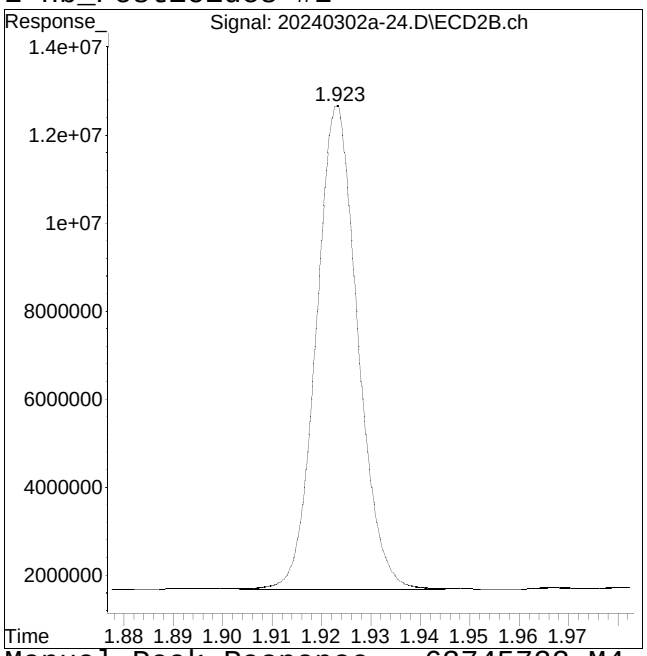
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240302QMethod : pest20_2023_12_15_ugL_IC
Data File : 20240302a-24.D Operator : pest20:jag
Date Inj'd : 3/2/2024 3:54 pm Instrument : PEST 20
Sample : WG1891324-2,42,, Quant Date : 3/2/2024 4:09 pm

Compound #39: 1-br-2-nb_Pesticides #2



Original Peak Response = 64566749



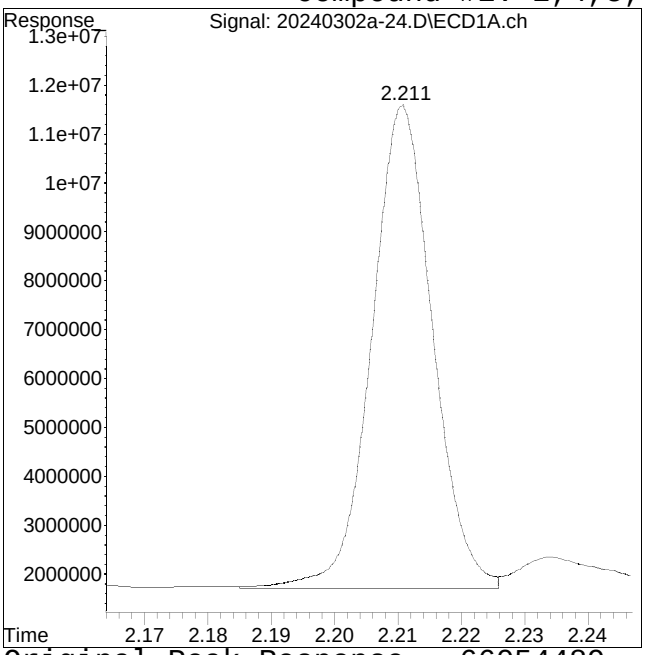
Manual Peak Response = 63745722 M4

M4 = Poor automated baseline construction.

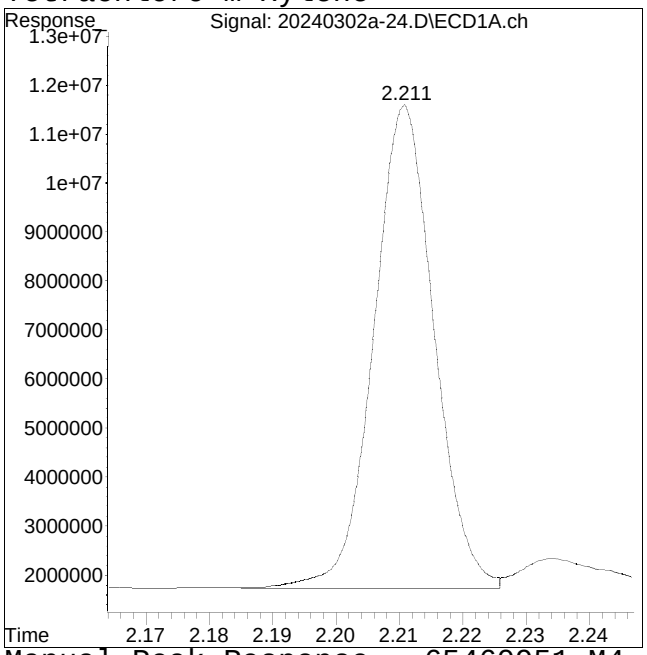
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240302QMethod : pest20_2023_12_15_ugL_IC
Data File : 20240302a-24.D Operator : pest20:jag
Date Inj'd : 3/2/2024 3:54 pm Instrument : PEST 20
Sample : WG1891324-2,42,, Quant Date : 3/2/2024 4:09 pm

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



Original Peak Response = 66054489



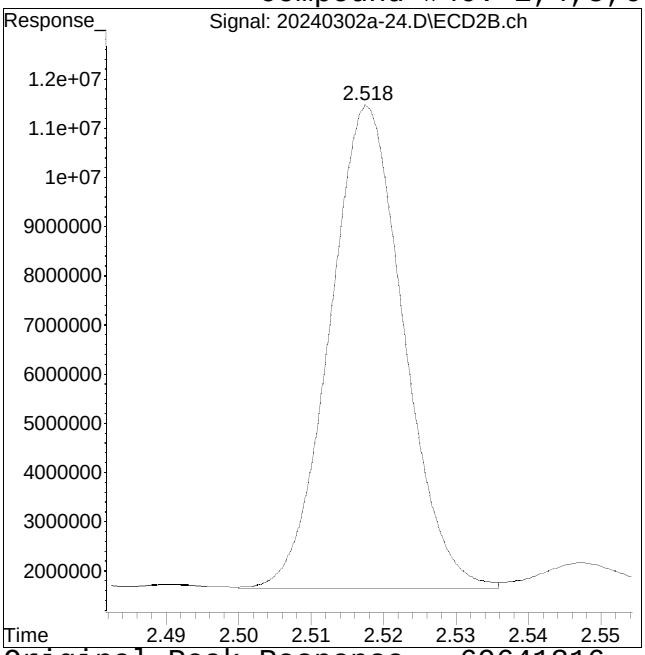
Manual Peak Response = 65460951 M4

M4 = Poor automated baseline construction.

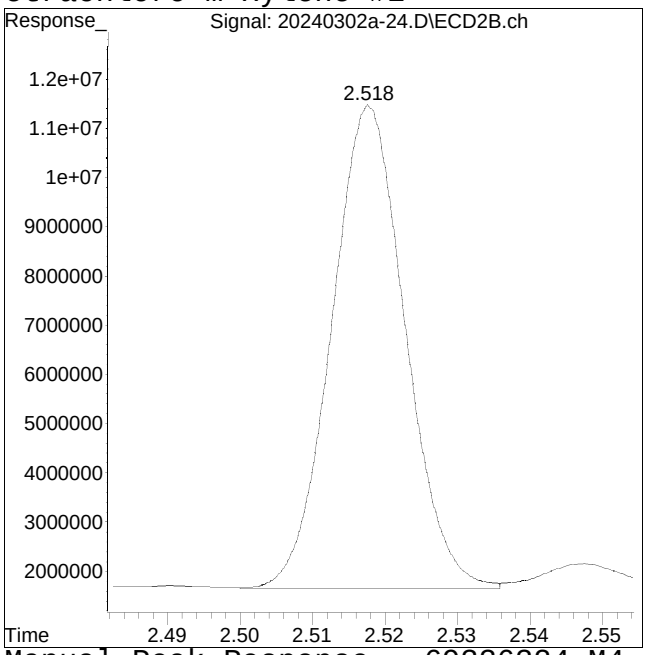
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240302QMethod : pest20_2023_12_15_ugL_IC
Data File : 20240302a-24.D Operator : pest20:jag
Date Inj'd : 3/2/2024 3:54 pm Instrument : PEST 20
Sample : WG1891324-2,42,, Quant Date : 3/2/2024 4:09 pm

Compound #40: 2,4,5,6-Tetrachloro-m-xylene #2



Original Peak Response = 69641316



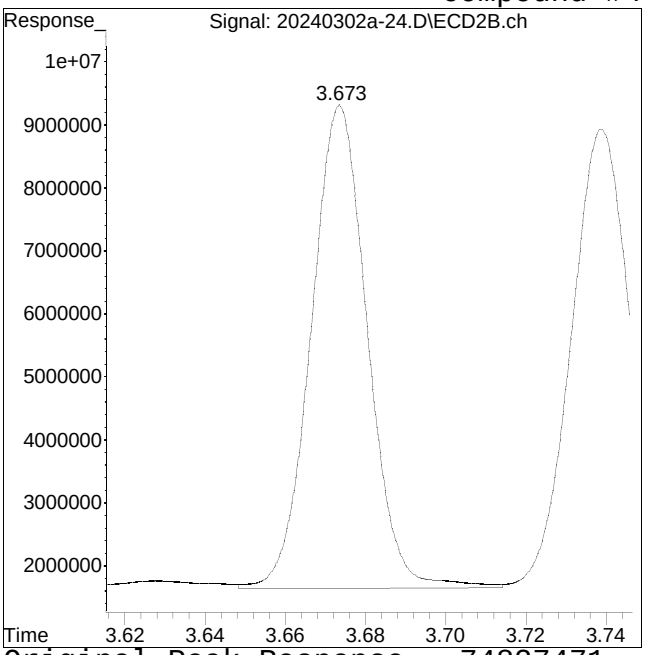
Manual Peak Response = 69336324 M4

M4 = Poor automated baseline construction.

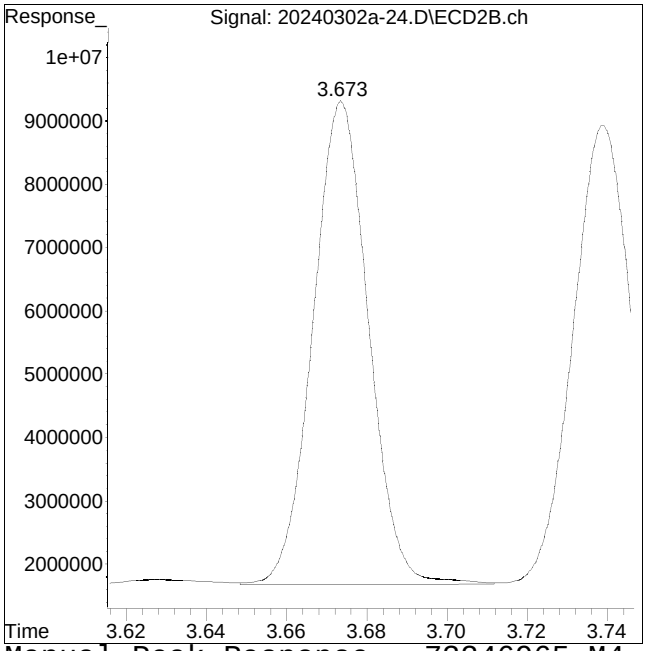
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240302QMethod : pest20_2023_12_15_ugL_IC
Data File : 20240302a-24.D Operator : pest20:jag
Date Inj'd : 3/2/2024 3:54 pm Instrument : PEST 20
Sample : WG1891324-2,42,, Quant Date : 3/2/2024 4:09 pm

Compound #45: delta-BHC #2



Original Peak Response = 74827471



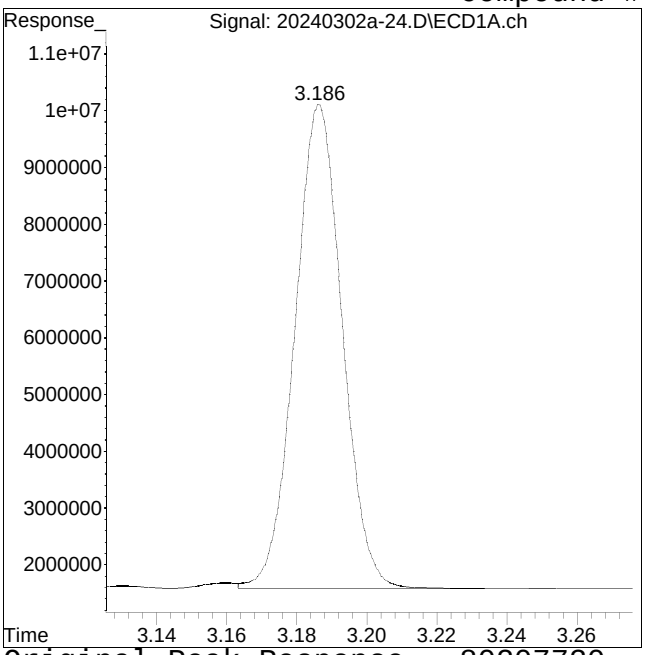
Manual Peak Response = 73246965 M4

M4 = Poor automated baseline construction.

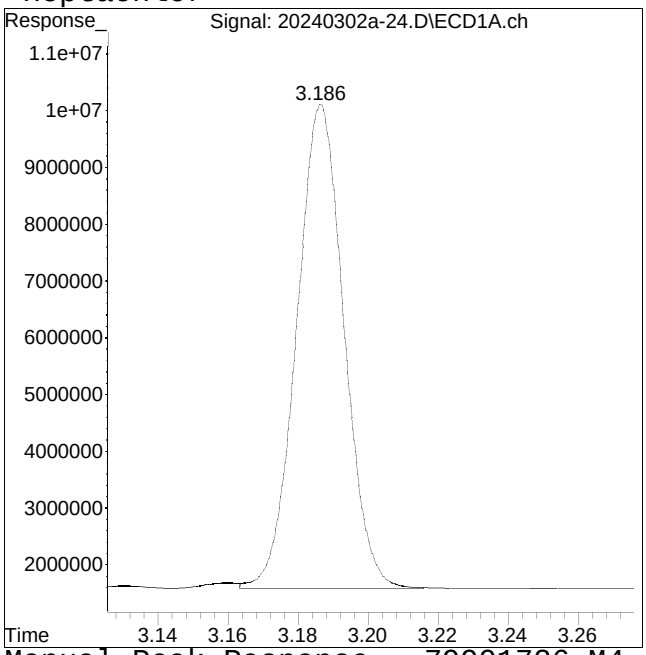
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240302QMethod : pest20_2023_12_15_ugL_IC
Data File : 20240302a-24.D Operator : pest20:jag
Date Inj'd : 3/2/2024 3:54 pm Instrument : PEST 20
Sample : WG1891324-2,42,, Quant Date : 3/2/2024 4:09 pm

Compound #8: Heptachlor



Original Peak Response = 80207730



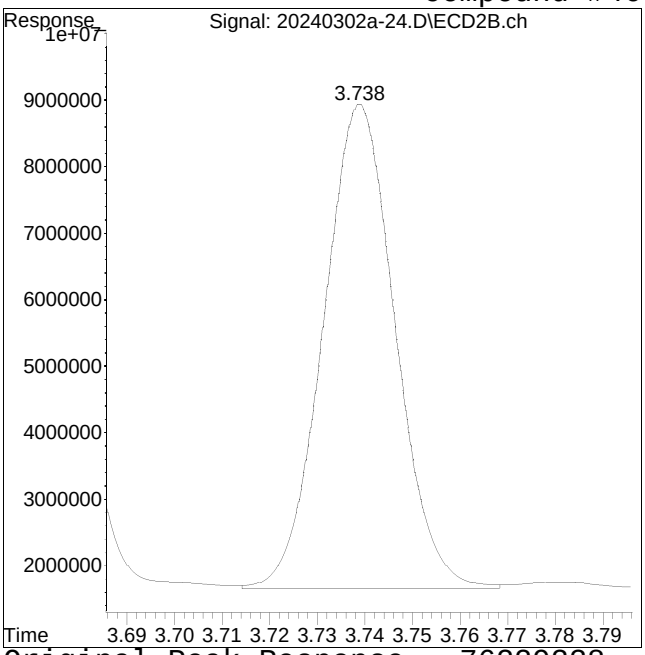
Manual Peak Response = 79991726 M4

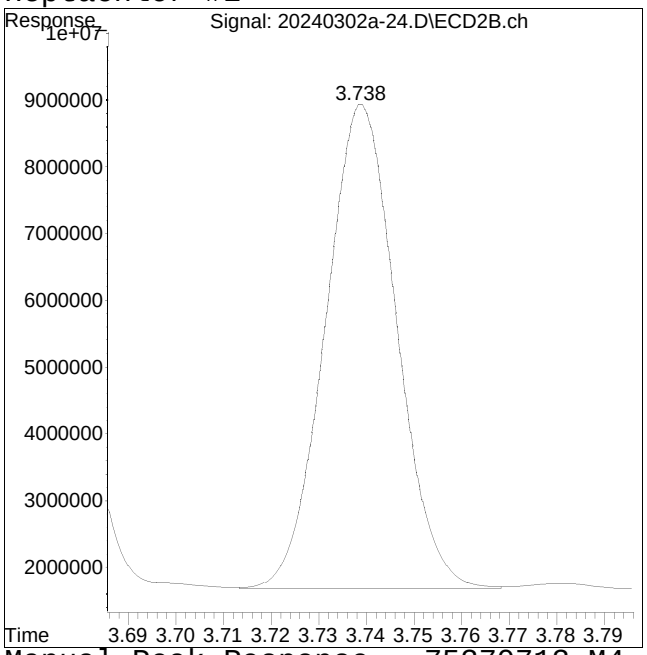
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240302QMethod : pest20_2023_12_15_ugL_IC
Data File : 20240302a-24.D Operator : pest20:jag
Date Inj'd : 3/2/2024 3:54 pm Instrument : PEST 20
Sample : WG1891324-2,42,, Quant Date : 3/2/2024 4:09 pm

Compound #46: Heptachlor #2



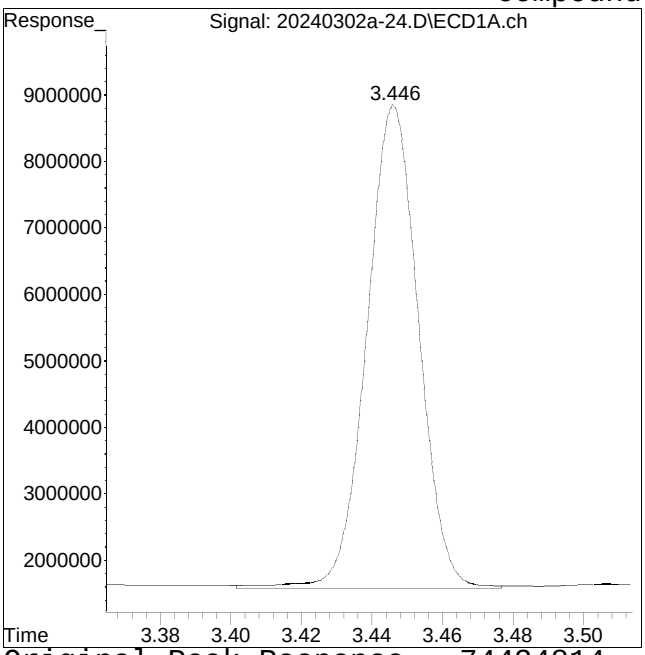


Original Peak Response = 76229238 Manual Peak Response = 75370713 M4
M4 = Poor automated baseline construction.

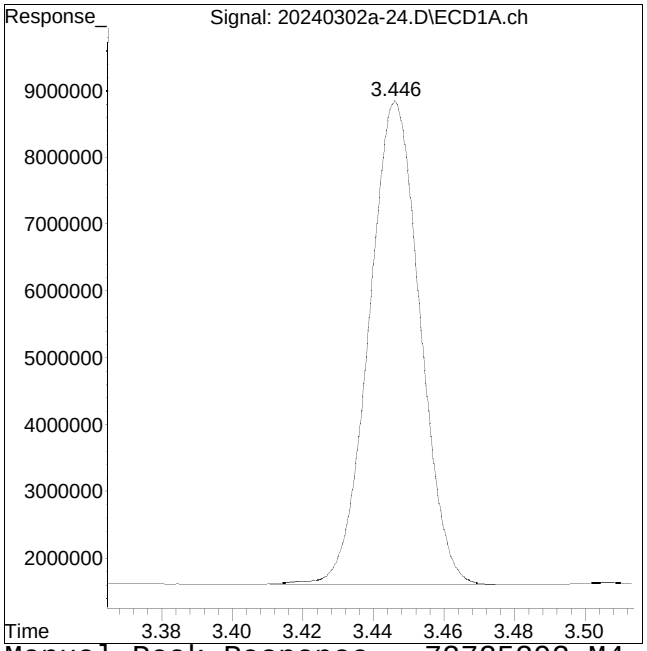
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240302QMethod : pest20_2023_12_15_ugL_IC
Data File : 20240302a-24.D Operator : pest20:jag
Date Inj'd : 3/2/2024 3:54 pm Instrument : PEST 20
Sample : WG1891324-2,42,, Quant Date : 3/2/2024 4:09 pm

Compound #9: Aldrin



Original Peak Response = 74434814



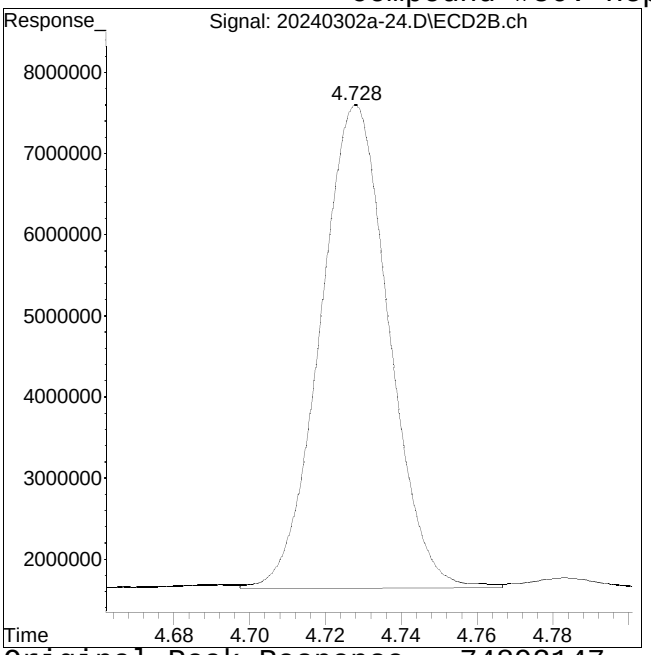
Manual Peak Response = 72725292 M4

M4 = Poor automated baseline construction.

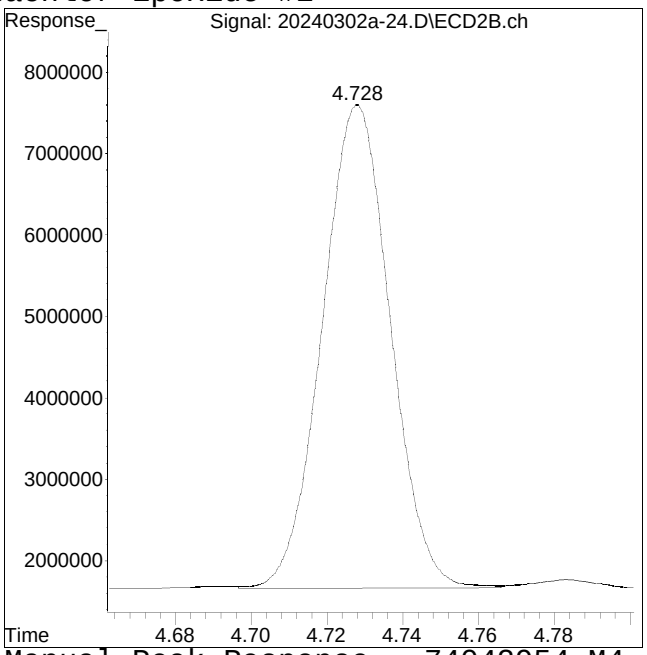
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240302QMethod : pest20_2023_12_15_ugL_IC
Data File : 20240302a-24.D Operator : pest20:jag
Date Inj'd : 3/2/2024 3:54 pm Instrument : PEST 20
Sample : WG1891324-2,42,, Quant Date : 3/2/2024 4:09 pm

Compound #50: Heptachlor Epoxide #2



Original Peak Response = 74892147



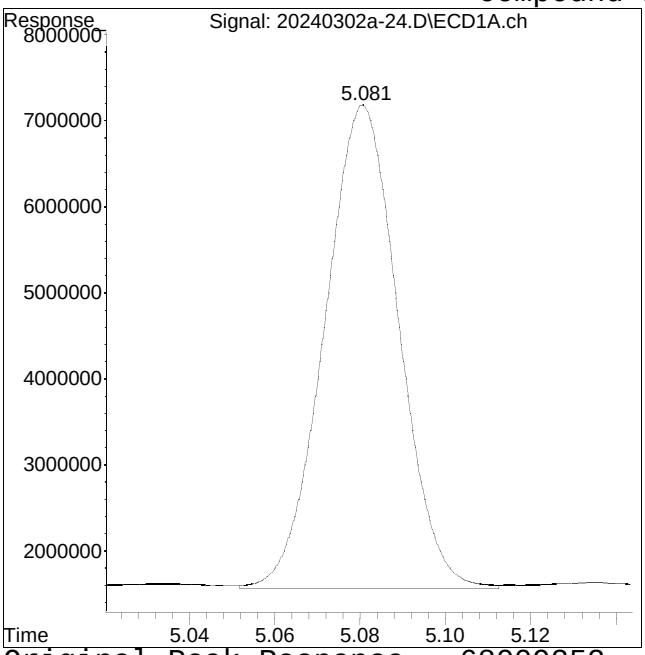
Manual Peak Response = 74042954 M4

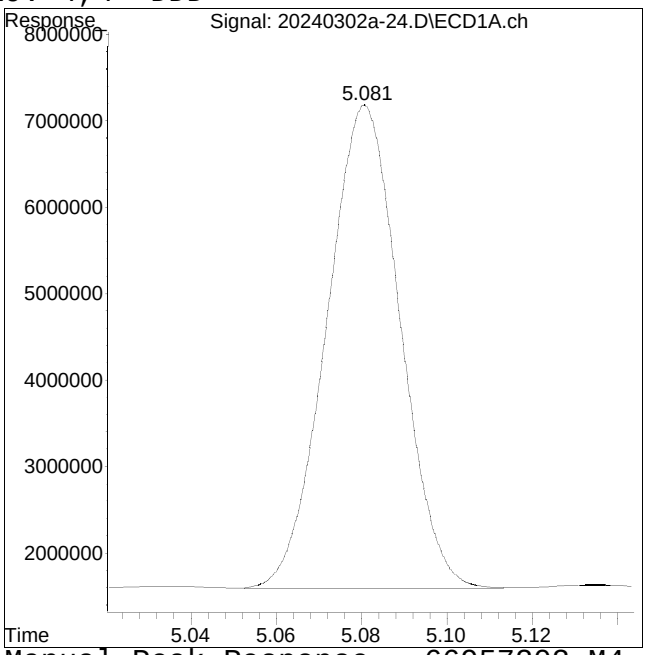
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240302QMethod : pest20_2023_12_15_ugL_IC
Data File : 20240302a-24.D Operator : pest20:jag
Date Inj'd : 3/2/2024 3:54 pm Instrument : PEST 20
Sample : WG1891324-2,42,, Quant Date : 3/2/2024 4:09 pm

Compound #19: 4,4'-DDD



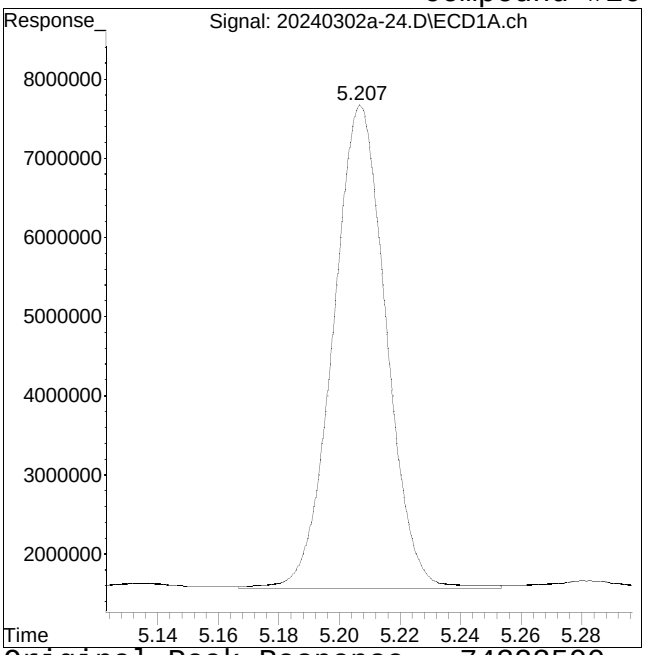


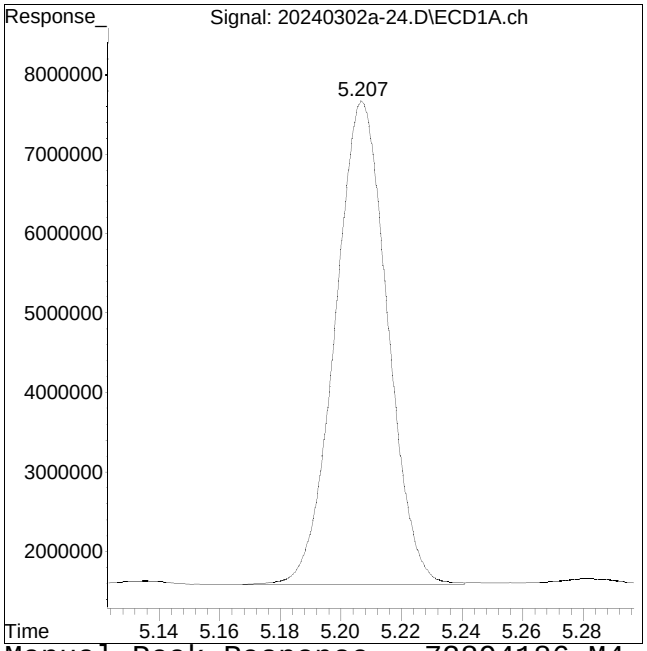
Original Peak Response = 68009252 Manual Peak Response = 66957202 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240302QMethod : pest20_2023_12_15_ugL_IC
Data File : 20240302a-24.D Operator : pest20:jag
Date Inj'd : 3/2/2024 3:54 pm Instrument : PEST 20
Sample : WG1891324-2,42,, Quant Date : 3/2/2024 4:09 pm

Compound #20: Endosulfan II



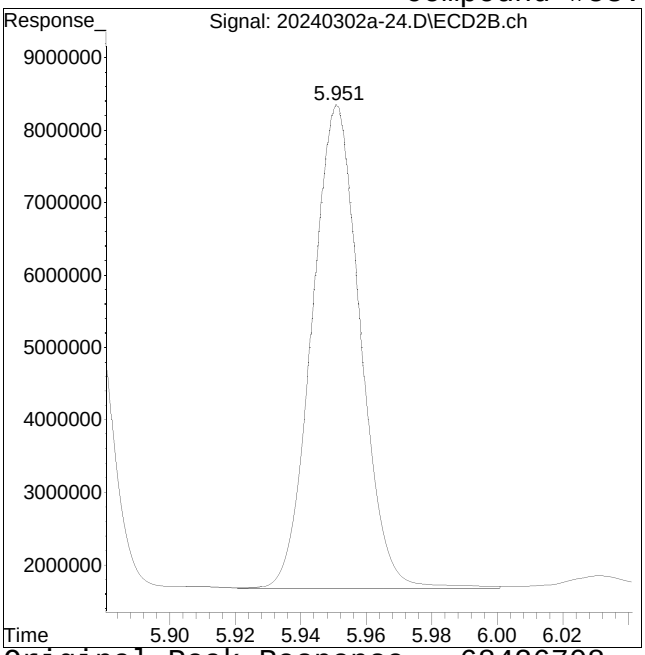


Original Peak Response = 74323590 Manual Peak Response = 72894186 M4
M4 = Poor automated baseline construction.

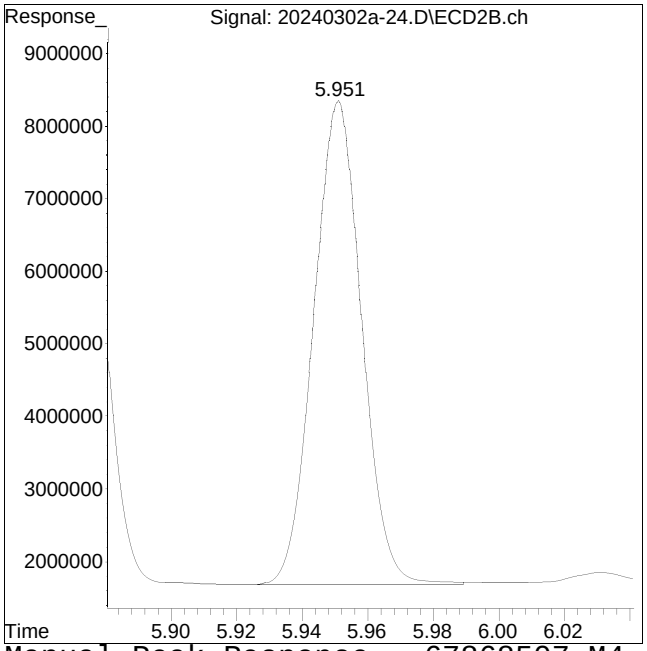
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240302QMethod : pest20_2023_12_15_ugL_IC
Data File : 20240302a-24.D Operator : pest20:jag
Date Inj'd : 3/2/2024 3:54 pm Instrument : PEST 20
Sample : WG1891324-2,42,, Quant Date : 3/2/2024 4:09 pm

Compound #58: Endosulfan II #2



Original Peak Response = 68426708



Manual Peak Response = 67868507 M4

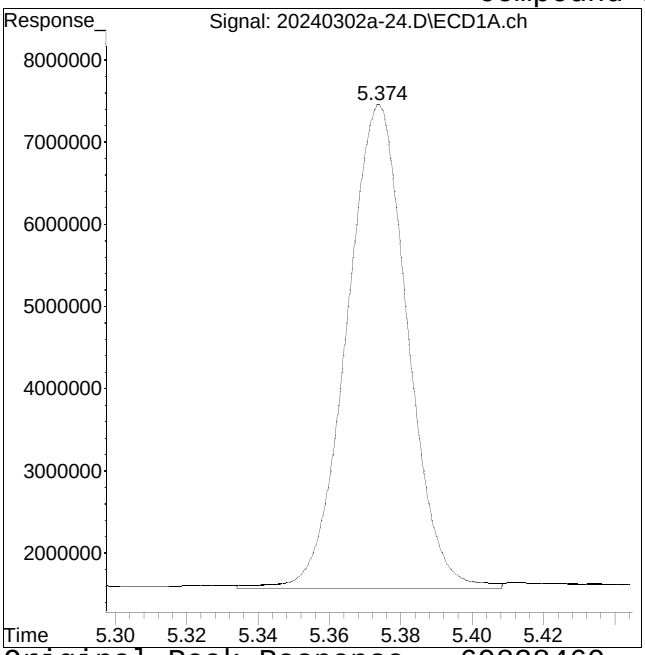
M4 = Poor automated baseline construction.

Manual Integration Report

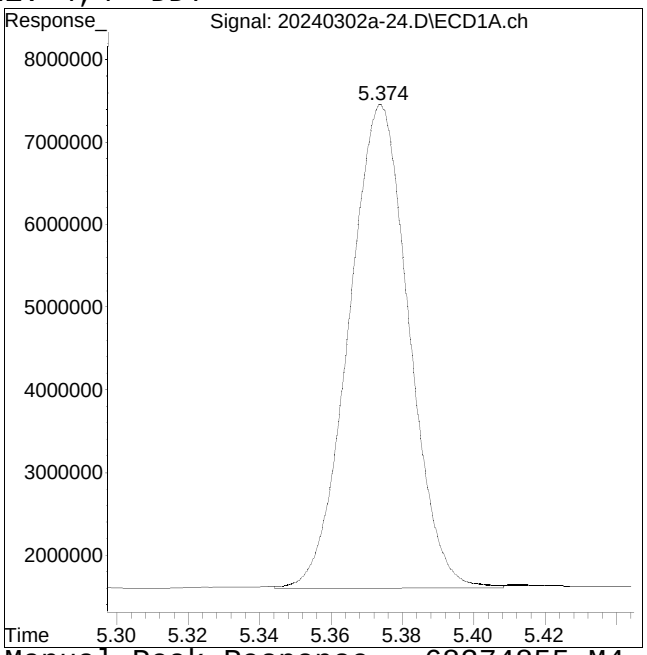
Data Path : I:\PEST\Pest20\2024\240302Q
Data File : 20240302a-24.D
Date Inj'd : 3/2/2024 3:54 pm
Sample : WG1891324-2,42,,

Method : pest20_2023_12_15_ugL_IC
Operator : pest20:jag
Instrument : PEST 20
Quant Date : 3/2/2024 4:09 pm

Compound #21: 4,4'-DDT



Original Peak Response = 69838460



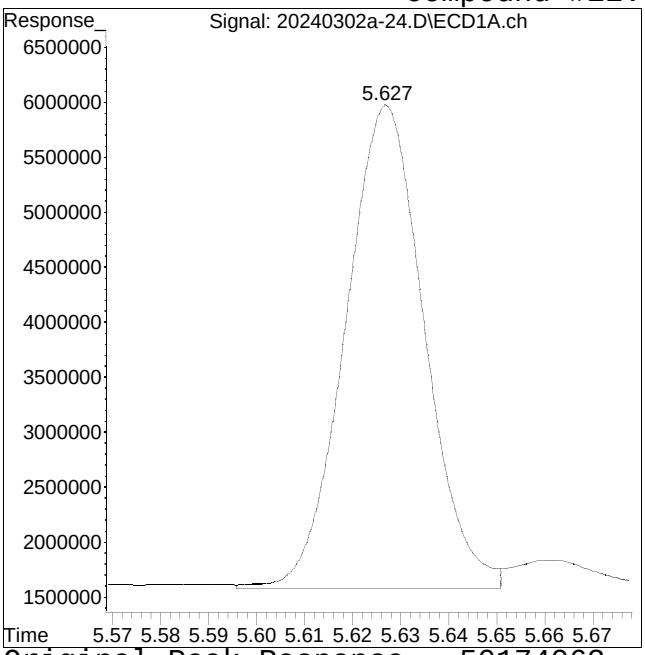
Manual Peak Response = 68374855 M4

M4 = Poor automated baseline construction.

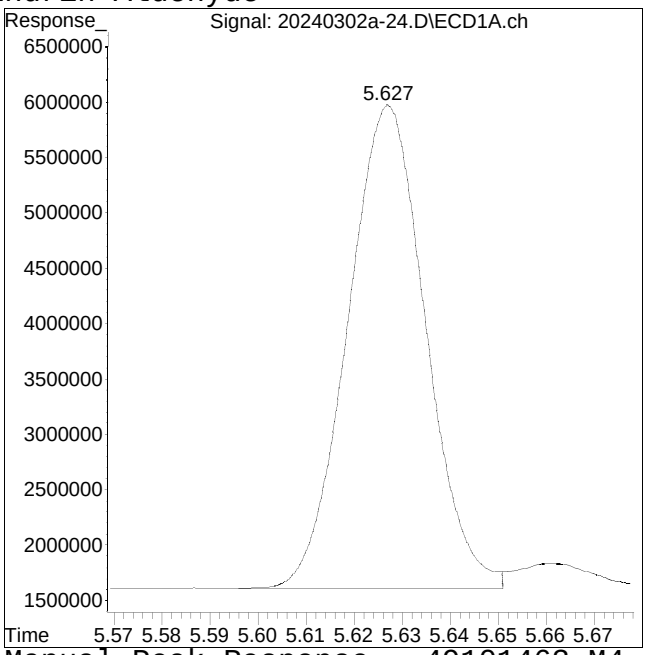
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240302QMethod : pest20_2023_12_15_ugL_IC
Data File : 20240302a-24.D Operator : pest20:jag
Date Inj'd : 3/2/2024 3:54 pm Instrument : PEST 20
Sample : WG1891324-2,42,, Quant Date : 3/2/2024 4:09 pm

Compound #22: Endrin Aldehyde



Original Peak Response = 50174063



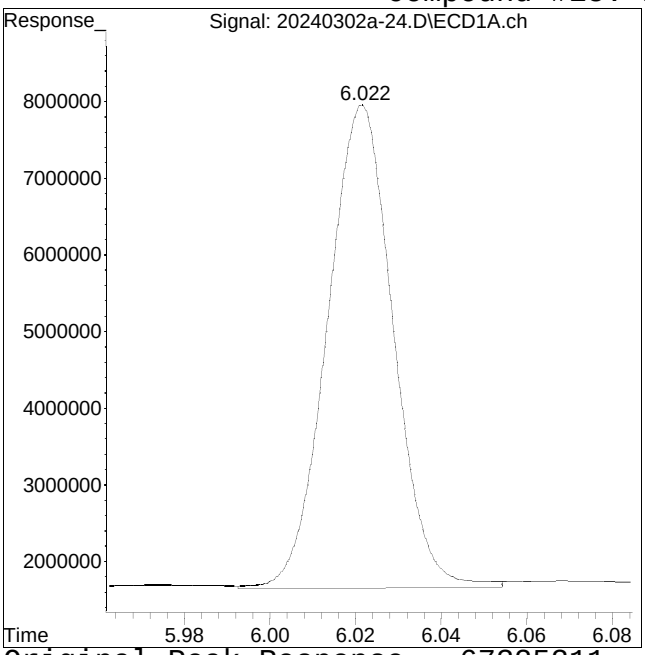
Manual Peak Response = 49101463 M4

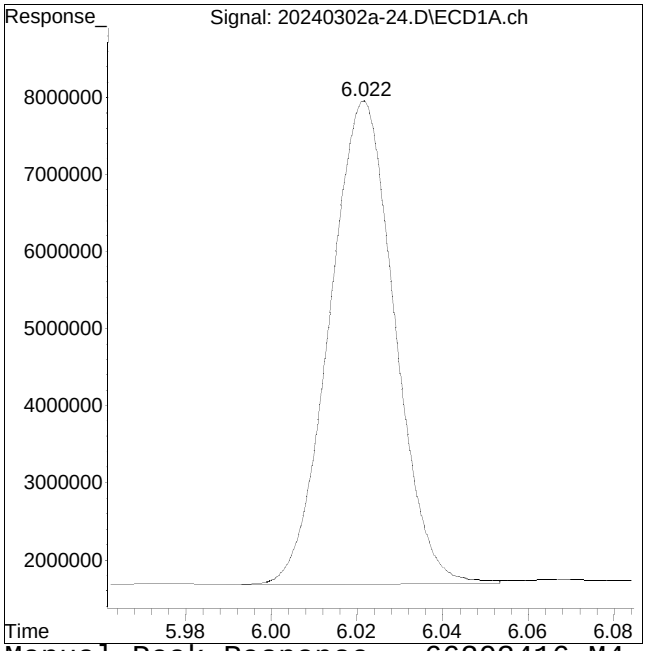
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240302QMethod : pest20_2023_12_15_ugL_IC
Data File : 20240302a-24.D Operator : pest20:jag
Date Inj'd : 3/2/2024 3:54 pm Instrument : PEST 20
Sample : WG1891324-2,42,, Quant Date : 3/2/2024 4:09 pm

Compound #25: Endosulfan Sulfate



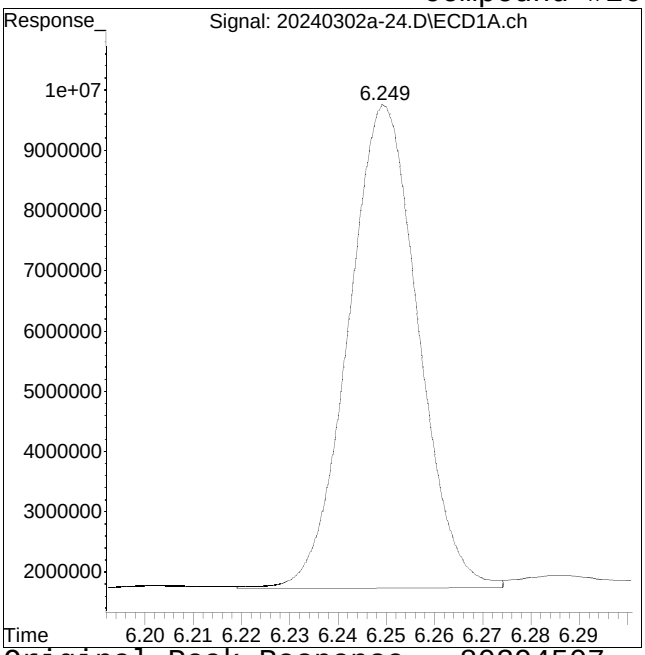


Original Peak Response = 67325211 Manual Peak Response = 66203416 M4
M4 = Poor automated baseline construction.

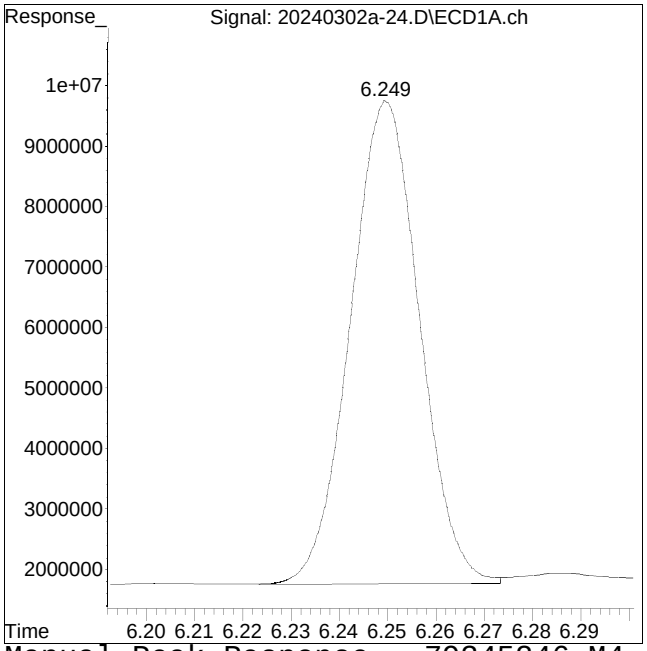
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240302QMethod : pest20_2023_12_15_ugL_IC
Data File : 20240302a-24.D Operator : pest20:jag
Date Inj'd : 3/2/2024 3:54 pm Instrument : PEST 20
Sample : WG1891324-2,42,, Quant Date : 3/2/2024 4:09 pm

Compound #26: Endrin Ketone



Original Peak Response = 80394507



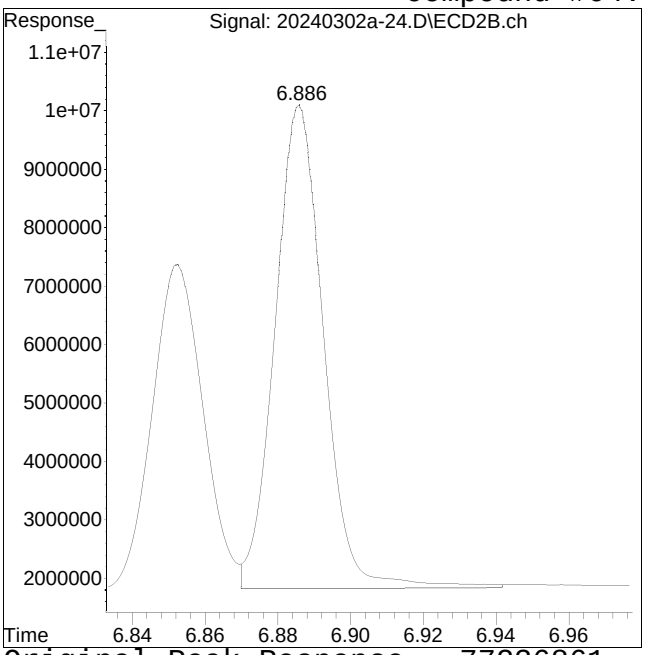
Manual Peak Response = 79345246 M4

M4 = Poor automated baseline construction.

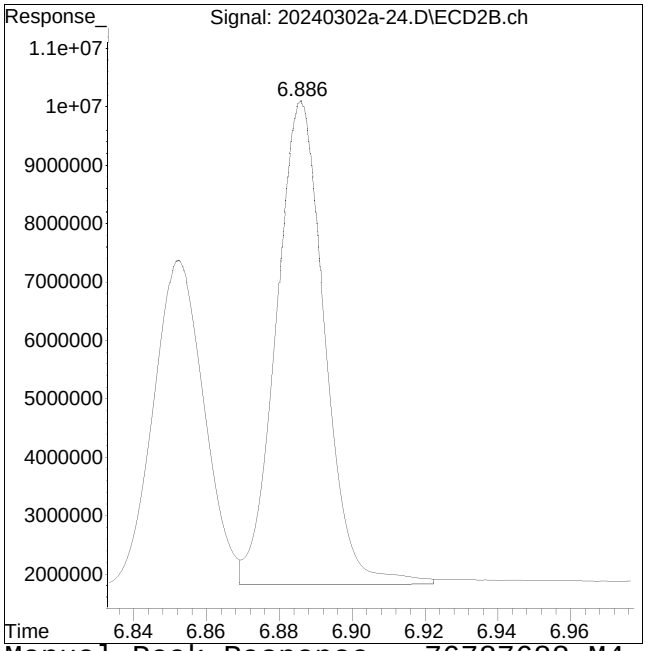
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240302QMethod : pest20_2023_12_15_ugL_IC
Data File : 20240302a-24.D Operator : pest20:jag
Date Inj'd : 3/2/2024 3:54 pm Instrument : PEST 20
Sample : WG1891324-2,42,, Quant Date : 3/2/2024 4:09 pm

Compound #64: Endrin Ketone #2



Original Peak Response = 77236861



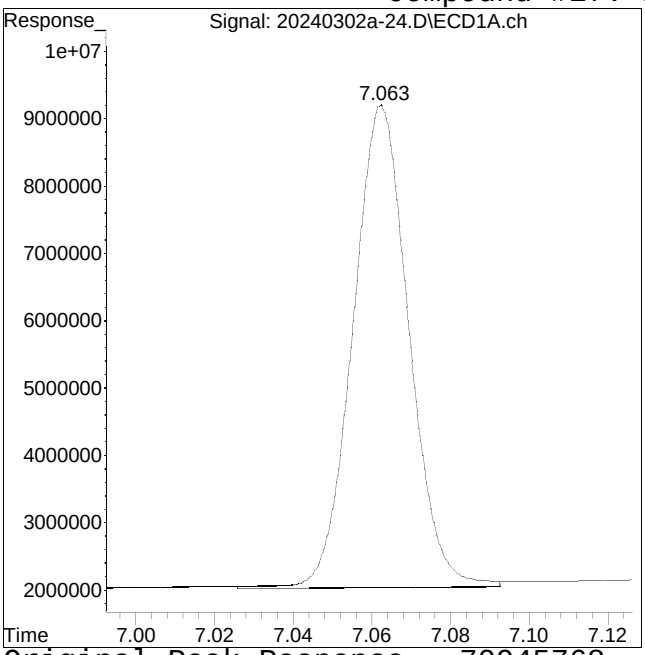
Manual Peak Response = 76787688 M4

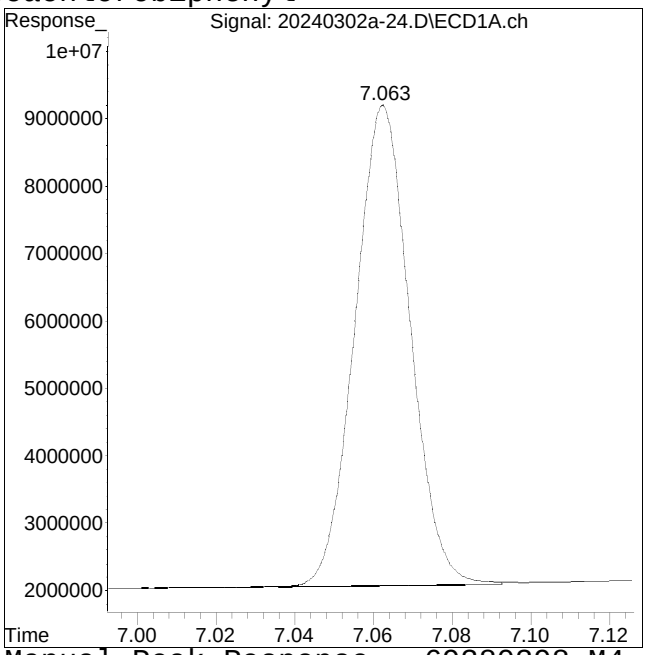
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240302QMethod : pest20_2023_12_15_ugL_IC
Data File : 20240302a-24.D Operator : pest20:jag
Date Inj'd : 3/2/2024 3:54 pm Instrument : PEST 20
Sample : WG1891324-2,42,, Quant Date : 3/2/2024 4:09 pm

Compound #27: Decachlorobiphenyl



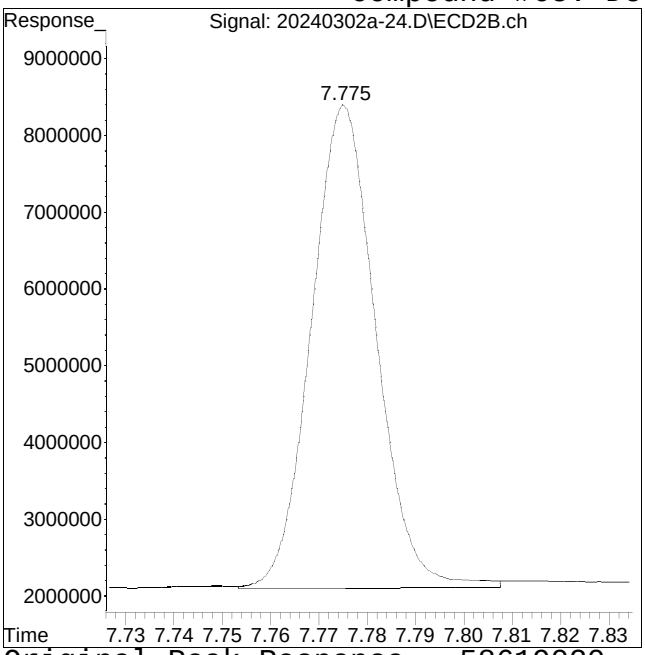


Original Peak Response = 70945768 Manual Peak Response = 69380398 M4
M4 = Poor automated baseline construction.

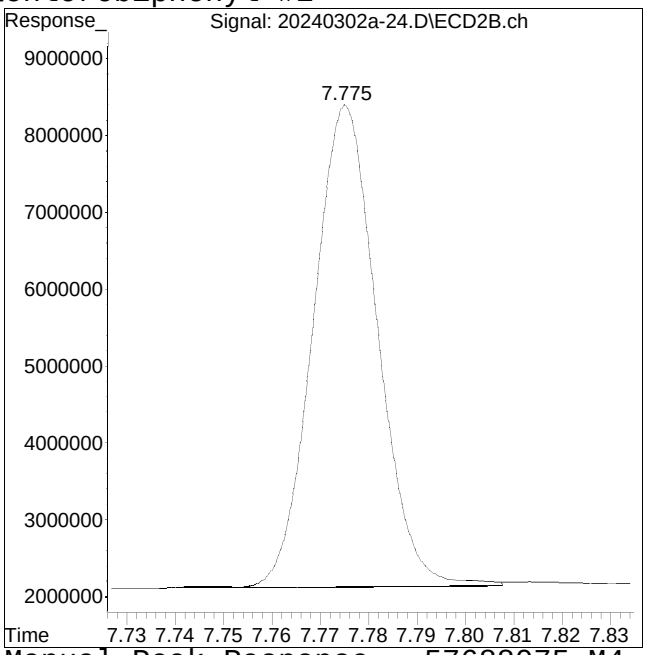
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240302QMethod : pest20_2023_12_15_ugL_IC
Data File : 20240302a-24.D Operator : pest20:jag
Date Inj'd : 3/2/2024 3:54 pm Instrument : PEST 20
Sample : WG1891324-2,42,, Quant Date : 3/2/2024 4:09 pm

Compound #65: Decachlorobiphenyl #2



Original Peak Response = 58619020



Manual Peak Response = 57688075 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240305A\
Data File : 11240305a-08.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 05 Mar 2024 8:51 am
Operator : PEST11:mmg
Sample : WG1892124-2,42,,
Misc : wg1892239,WG1892124,ical20697
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 05 11:02:56 2024
Quant Method : I:\PEST\Pest11\2024\240305A\pest11_12_19_23_ugL_ICAL20697.M
Quant Title : pest
QLast Update : Tue Mar 05 08:15:23 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest11\2024\240305A\11240305a-03.d
Sub List : LCS_MS - spk only

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards							
1) i	1-br-2-nb_Pe	1.352	1.452	128.4E6	212.9E6	25.000M3	25.000M3
	Standard Area 1 : #1 = 83711596				Recovery = 153.35%		
	Standard Area 1 : #2 = 125546766				Recovery = 169.58%		
System Monitoring Compounds							
2) s	2,4,5,6-Tetr	1.702	1.949	154.7E6	263.1E6	31.447M4	31.031M4
	Spiked Amount 50.000	Range 30 - 150		Recovery = 62.89%		62.06%	
27) s	Decachlorobi	6.354	7.040	239.8E6	306.6E6	52.024M4	46.515M4
	Spiked Amount 50.000	Range 30 - 150		Recovery = 104.05%		93.03%	
Target Compounds							
4) t	alpha-BHC	2.021	2.384	214.1E6	383.3E6	31.169M3	32.418M4
5) t	gamma-BHC (l	2.228	2.682	203.3E6	355.3E6	30.984M4	31.720M4
6) t	beta-BHC	2.285	2.749	92494438	166.6E6	31.574M4	34.853M4
7) t	delta-BHC	2.416	3.028	161.5E6	278.8E6	24.300M3	25.012M4
8) t	Heptachlor	2.582	3.096	200.8E6	343.6E6	29.873M3	29.748M4
9) t	Aldrin	2.830	3.427	170.5E6	313.4E6	27.974M4	29.998M3
12) t	Heptachlor E	3.385	4.061	170.6E6	305.8E6	27.744M3	31.109M4
13) t	gamma-Chlord	3.511	4.284	173.0E6	342.0E6	30.867M4	36.344M4
14) t	alpha-Chlord	3.648	4.445	163.9E6	323.2E6	25.728M4	32.776M4
15) t	4,4'-DDE	3.746	4.631	172.1E6	347.9E6	29.749	36.256M4
16) t	Endosulfan I	3.786	4.505	155.7E6	294.7E6	25.867M4	30.722M4
17) t	Dieldrin	4.050	4.785	166.9E6	334.5E6	27.834M3	34.853M3
18) t	Endrin	4.304	5.075	156.5E6	312.9E6	25.714M4	32.526M3
19) t	4,4'-DDD	4.410	5.188	125.0E6	273.7E6	26.076M4	35.851M4
20) t	Endosulfan I	4.539	5.268	141.7E6	281.5E6	25.202M4	32.483M4
21) t	4,4'-DDT	4.697	5.460	147.4E6	310.1E6	25.826M3	35.542M4
22) t	Endrin Aldeh	4.948	5.557	104.4E6	209.9E6	22.878	30.233M3

Data Path : I:\PEST\Pest11\2024\240305A\
Data File : 11240305a-08.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 05 Mar 2024 8:51 am
Operator : PEST11:mmg
Sample : WG1892124-2,42,,
Misc : wg1892239,WG1892124,ical20697
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 05 11:02:56 2024
Quant Method : I:\PEST\Pest11\2024\240305A\pest11_12_19_23_ugL_ICAL20697.M
Quant Title : pest
QLast Update : Tue Mar 05 08:15:23 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest11\2024\240305A\11240305a-03.d
Sub List : LCS_MS - spk only

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
23) t Methoxychlor	5.176	6.012	90312049	158.0E6	29.422M4	35.891M3
25) t Endosulfan S	5.335	5.782	149.3E6	262.6E6	27.022M3	31.024M3
26) t Endrin Keton	5.560	6.190	205.9E6	318.1E6	33.011M4	34.971M3
Sum chlordane-1			0	0	N.D.	N.D.
Average chlordane-1					0.000	0.000
Sum toxaphene-2			0	0	N.D.	N.D.
Average toxaphene-2					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument						
Sum toxaphene-2			0	0	N.D.	N.D.
Average toxaphene-2					0.000	0.000

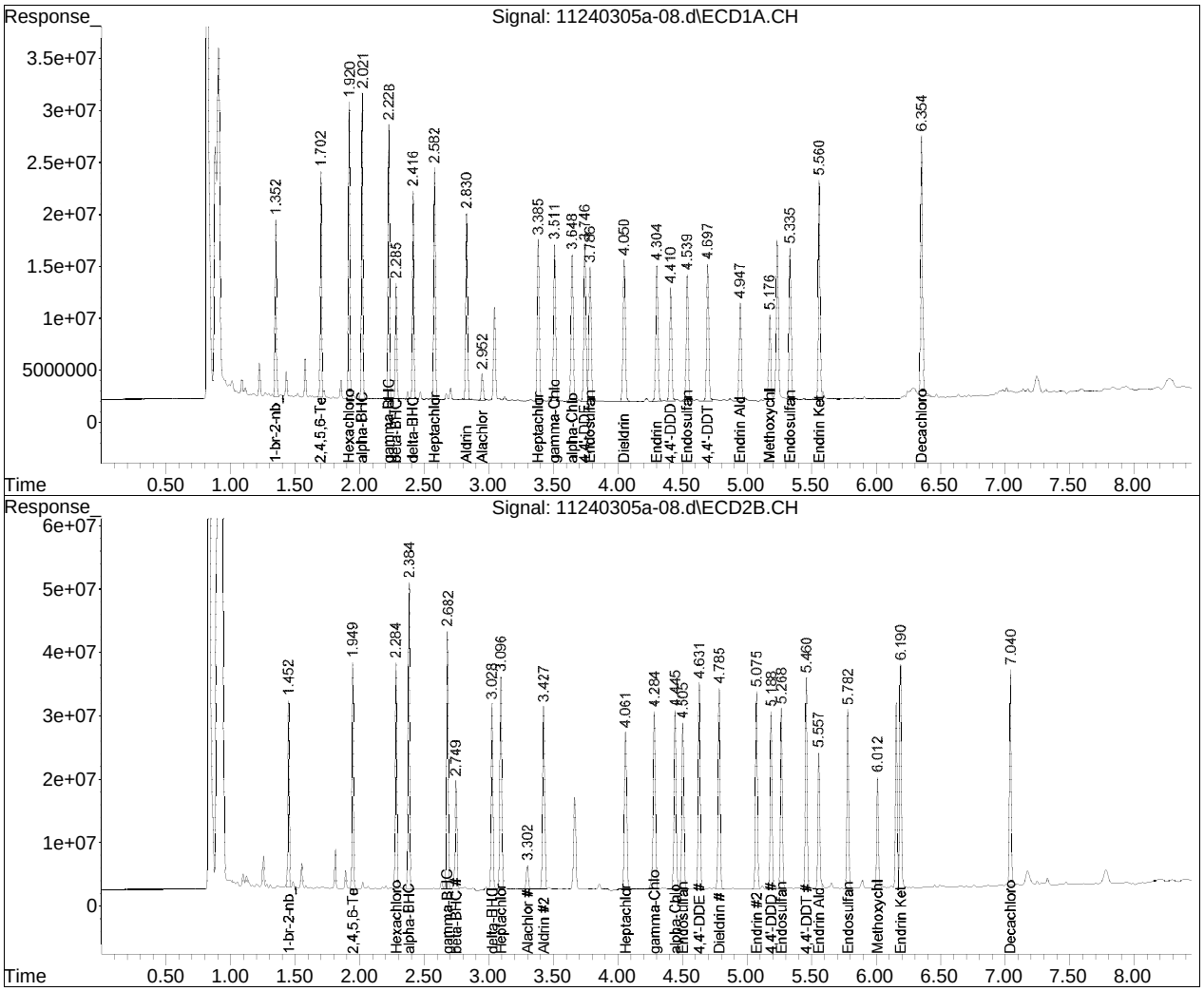
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : LCS_MS - spk only1\2024\240305A\11240305a-03.d••

Data Path : I:\PEST\Pest11\2024\240305A\
Data File : 11240305a-08.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 05 Mar 2024 8:51 am
Operator : PEST11:mmg
Sample : WG1892124-2,42,,
Misc : wg1892239,WG1892124,ical20697
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 05 11:02:56 2024
Quant Method : I:\PEST\Pest11\2024\240305A\pest11_12_19_23_ugL_ICAL20697.M
Quant Title : pest
QLast Update : Tue Mar 05 08:15:23 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

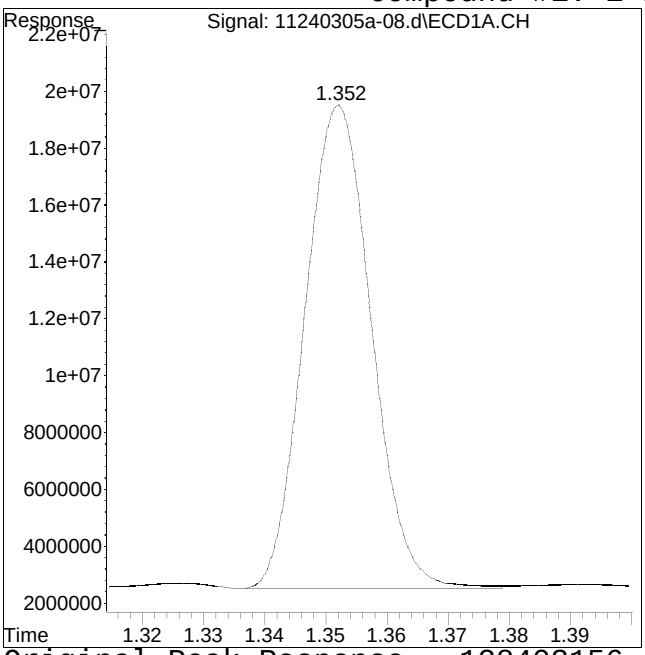
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

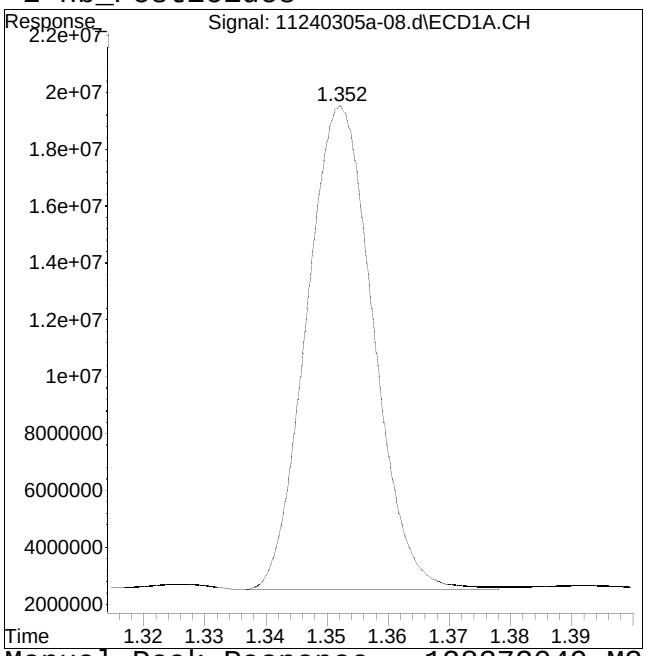


Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-08.d Operator : PEST11:mmg
Date Inj'd : 3/5/2024 8:51 am Instrument : Pest 11
Sample : WG1892124-2,42,, Quant Date : 3/5/2024 10:54 am

Compound #1: 1-br-2-nb_Pesticides



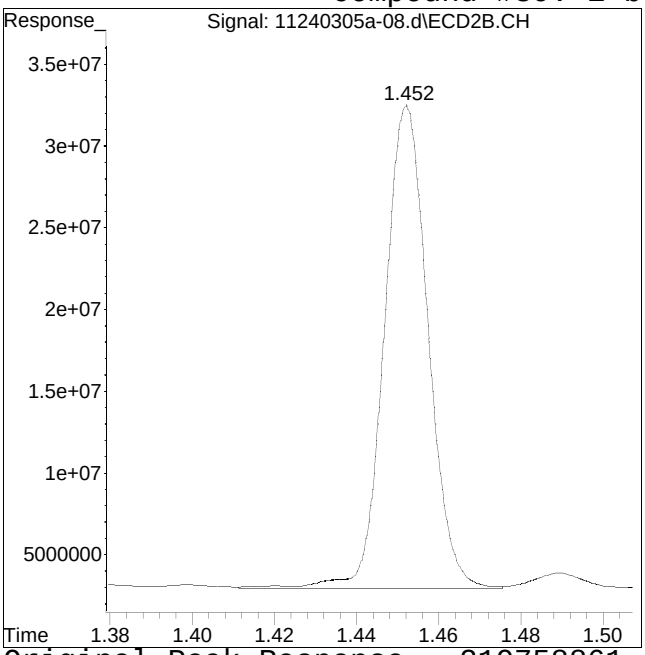


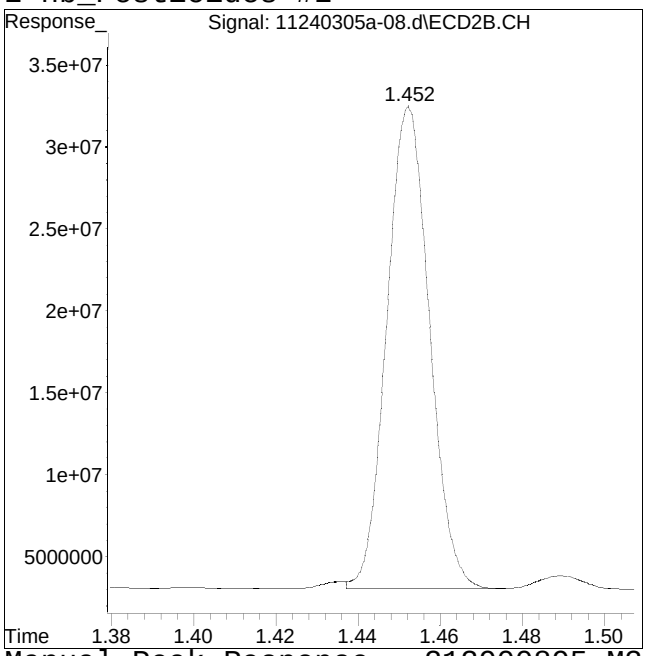
Original Peak Response = 128403156 Manual Peak Response = 128373049 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-08.d Operator : PEST11:mmg
Date Inj'd : 3/5/2024 8:51 am Instrument : Pest 11
Sample : WG1892124-2,42,, Quant Date : 3/5/2024 10:54 am

Compound #39: 1-br-2-nb_Pesticides #2



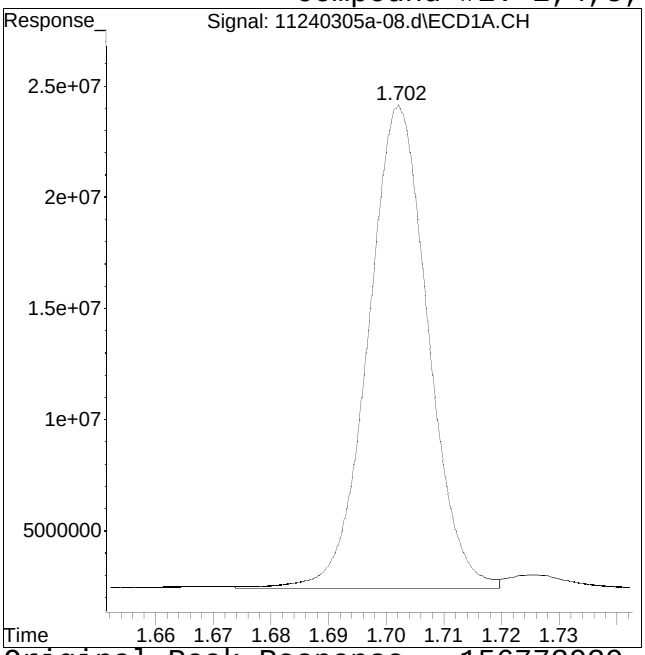


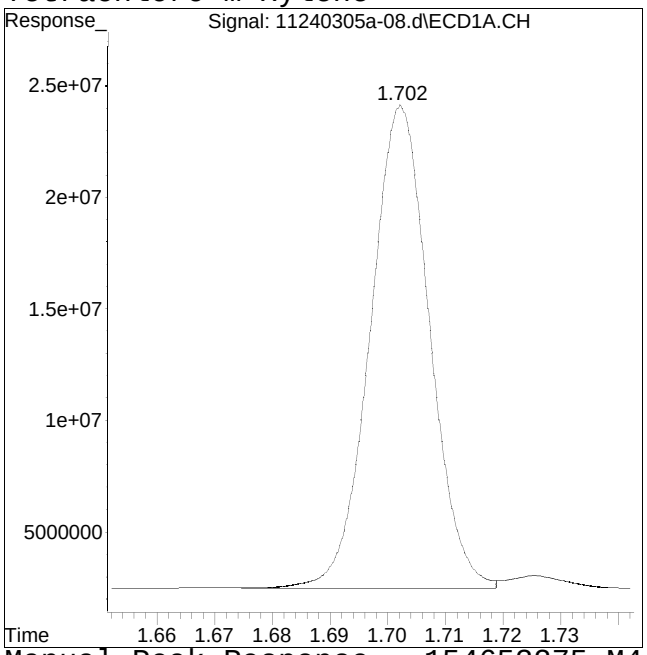
Original Peak Response = 219758861 Manual Peak Response = 212900895 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-08.d Operator : PEST11:mmg
Date Inj'd : 3/5/2024 8:51 am Instrument : Pest 11
Sample : WG1892124-2,42,, Quant Date : 3/5/2024 10:54 am

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



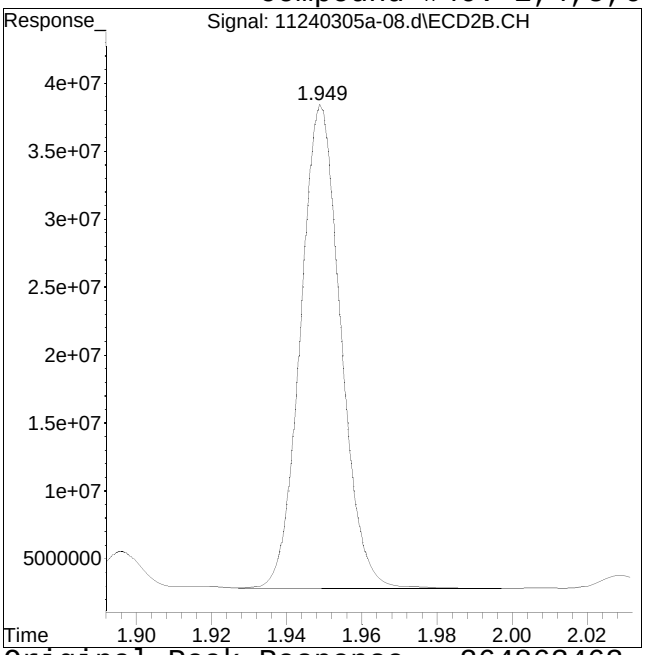


Original Peak Response = 156773939 Manual Peak Response = 154653275 M4
M4 = Poor automated baseline construction.

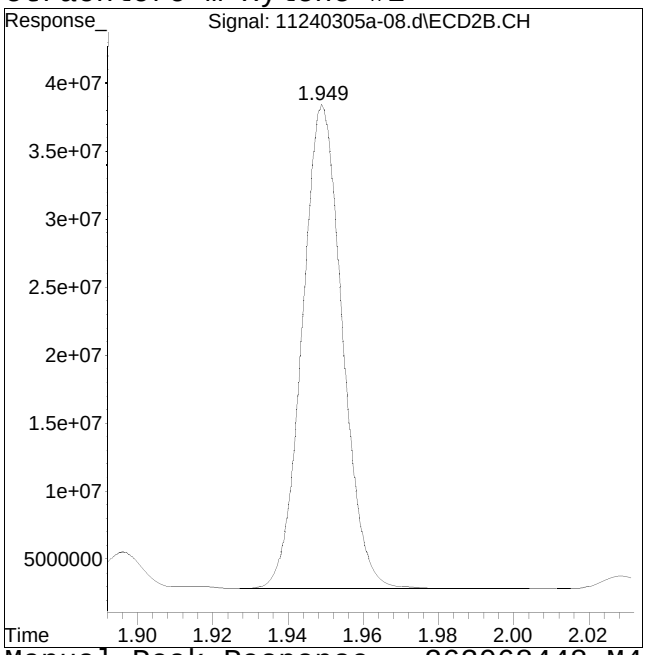
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-08.d Operator : PEST11:mmg
Date Inj'd : 3/5/2024 8:51 am Instrument : Pest 11
Sample : WG1892124-2,42,, Quant Date : 3/5/2024 10:54 am

Compound #40: 2,4,5,6-Tetrachloro-m-xylene #2



Original Peak Response = 264863463

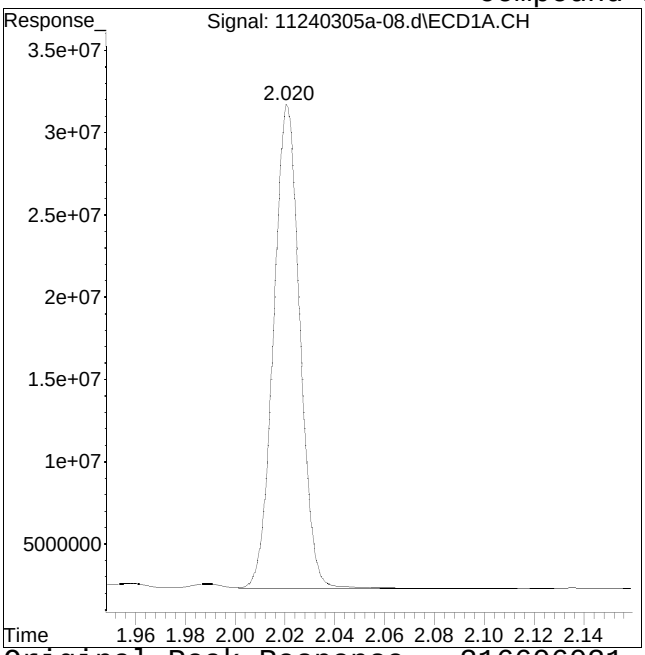


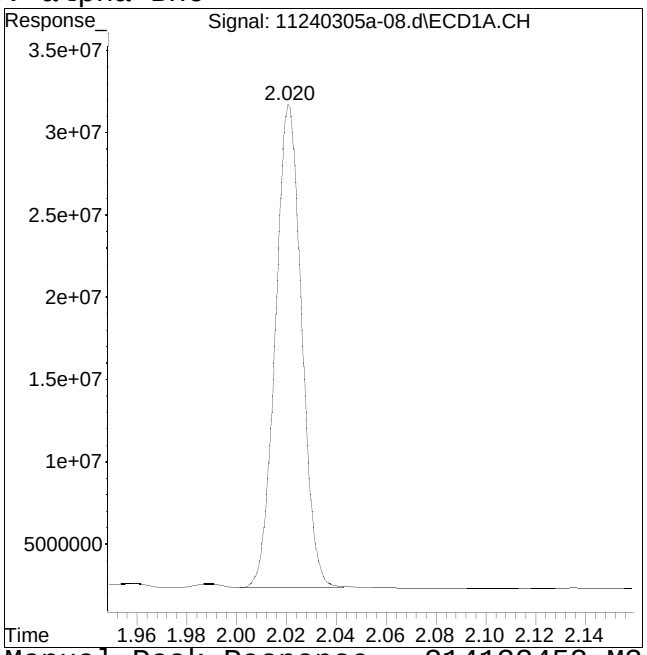
Manual Peak Response = 263068448 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-08.d Operator : PEST11:mmg
Date Inj'd : 3/5/2024 8:51 am Instrument : Pest 11
Sample : WG1892124-2,42,, Quant Date : 3/5/2024 10:54 am

Compound #4: alpha-BHC



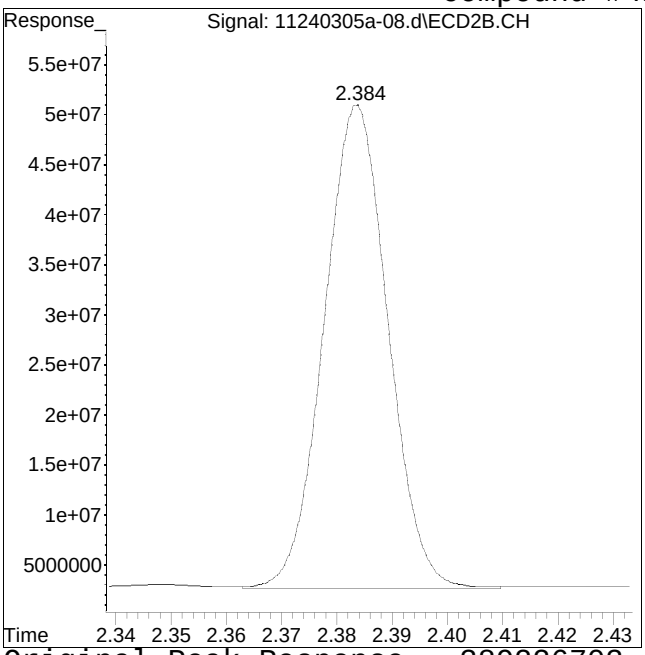


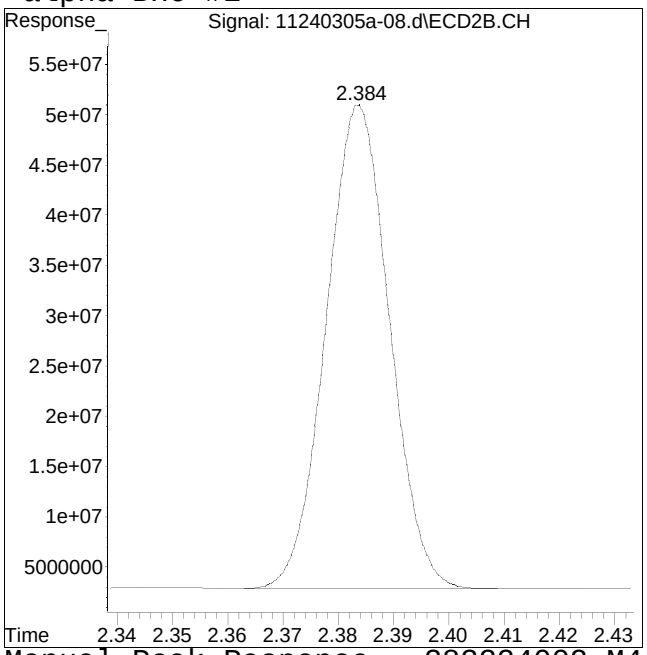
Original Peak Response = 216606021 Manual Peak Response = 214133452 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-08.d Operator : PEST11:mmg
Date Inj'd : 3/5/2024 8:51 am Instrument : Pest 11
Sample : WG1892124-2,42,, Quant Date : 3/5/2024 10:54 am

Compound #42: alpha-BHC #2



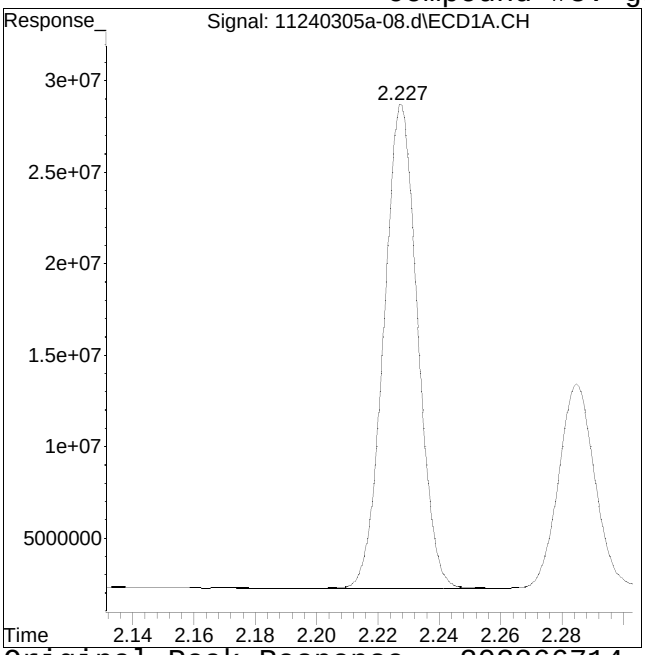


Original Peak Response = 389226703 Manual Peak Response = 383324002 M4
M4 = Poor automated baseline construction.

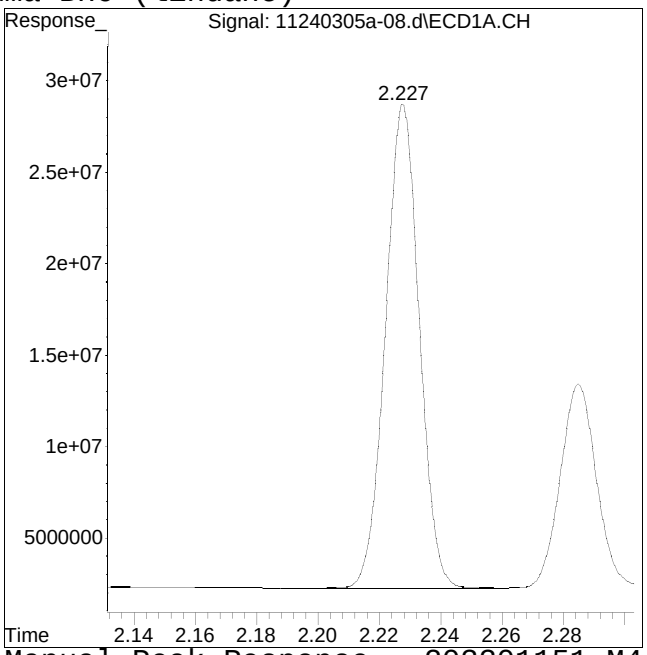
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-08.d Operator : PEST11:mmg
Date Inj'd : 3/5/2024 8:51 am Instrument : Pest 11
Sample : WG1892124-2,42,, Quant Date : 3/5/2024 10:54 am

Compound #5: gamma-BHC (lindane)



Original Peak Response = 202266714



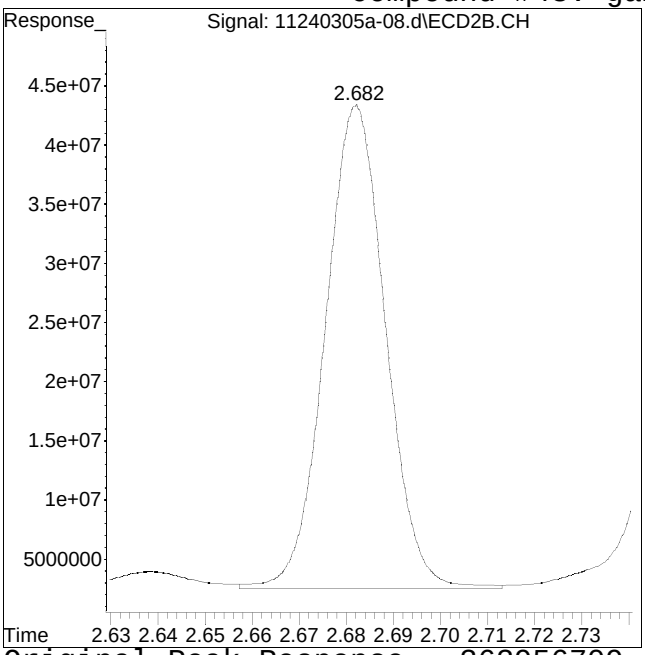
Manual Peak Response = 203301151 M4

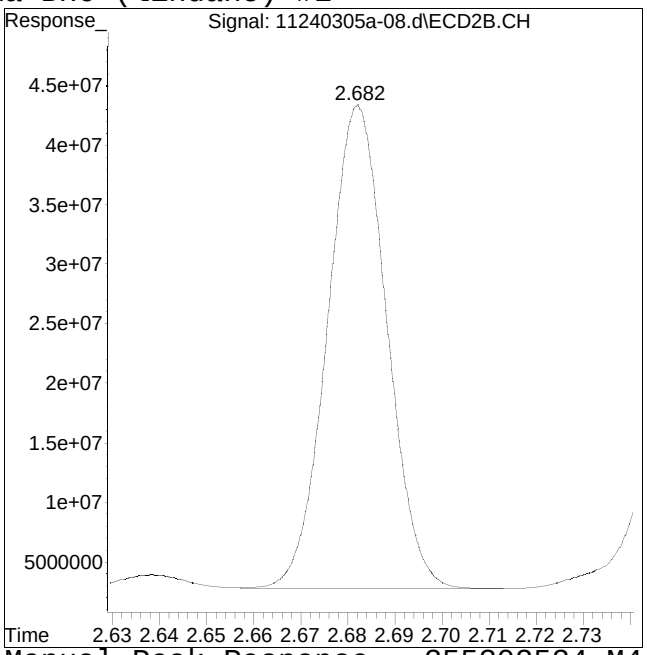
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-08.d Operator : PEST11:mmg
Date Inj'd : 3/5/2024 8:51 am Instrument : Pest 11
Sample : WG1892124-2,42,, Quant Date : 3/5/2024 10:54 am

Compound #43: gamma-BHC (lindane) #2



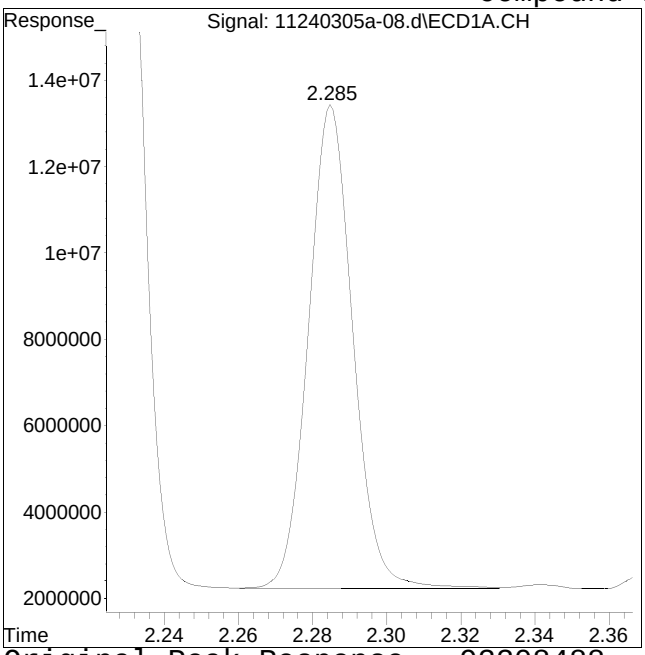


Original Peak Response = 363956709 Manual Peak Response = 355302524 M4
M4 = Poor automated baseline construction.

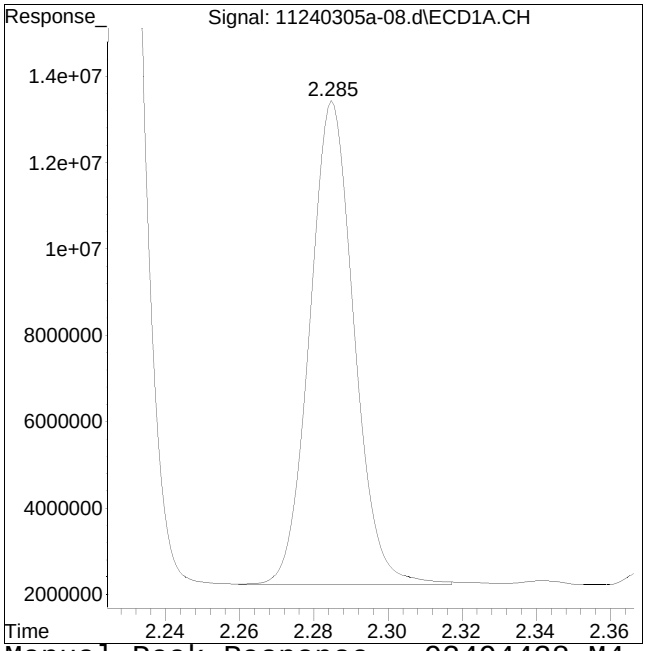
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-08.d Operator : PEST11:mmg
Date Inj'd : 3/5/2024 8:51 am Instrument : Pest 11
Sample : WG1892124-2,42,, Quant Date : 3/5/2024 10:54 am

Compound #6: beta-BHC



Original Peak Response = 93308488



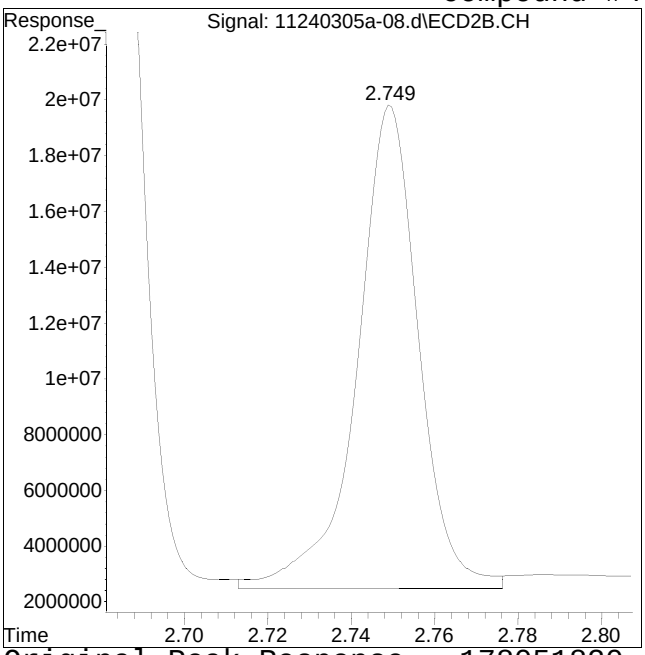
Manual Peak Response = 92494438 M4

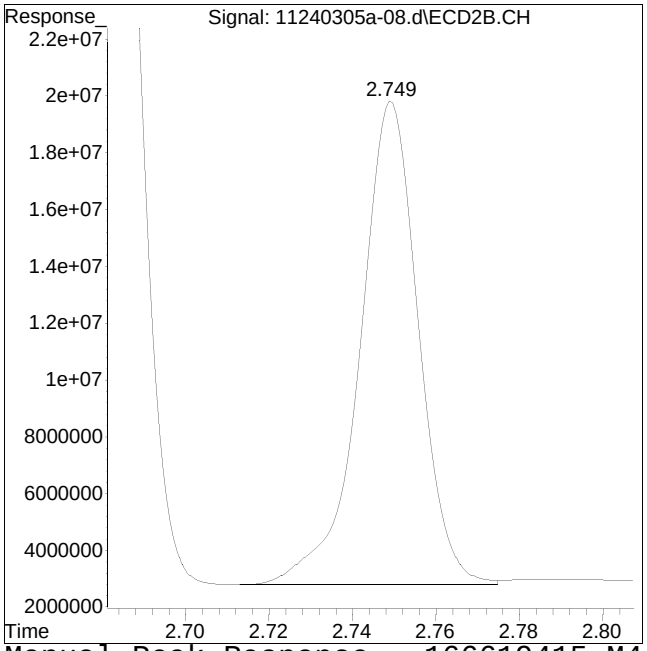
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-08.d Operator : PEST11:mmg
Date Inj'd : 3/5/2024 8:51 am Instrument : Pest 11
Sample : WG1892124-2,42,, Quant Date : 3/5/2024 10:54 am

Compound #44: beta-BHC #2



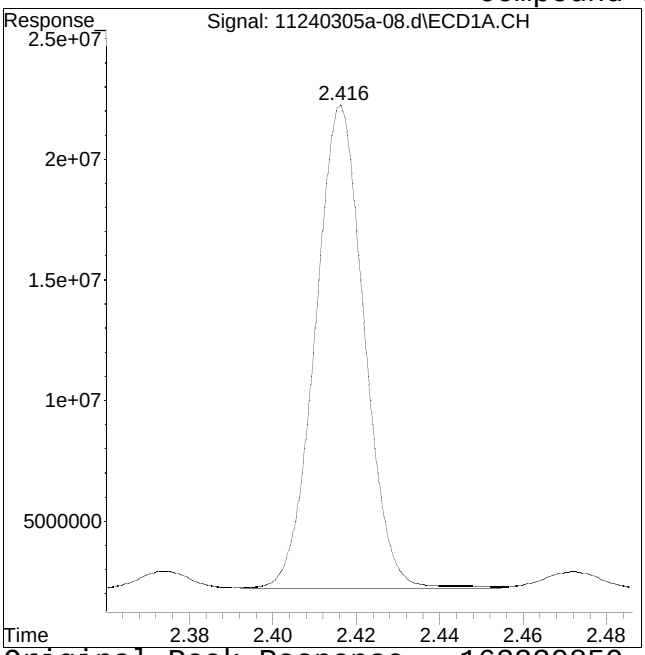


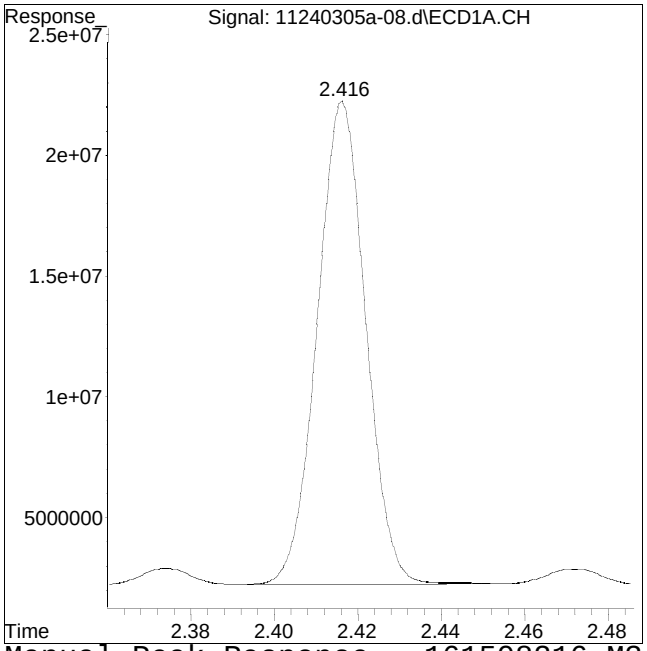
Original Peak Response = 178051820 Manual Peak Response = 166619415 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-08.d Operator : PEST11:mmg
Date Inj'd : 3/5/2024 8:51 am Instrument : Pest 11
Sample : WG1892124-2,42,, Quant Date : 3/5/2024 10:54 am

Compound #7: delta-BHC



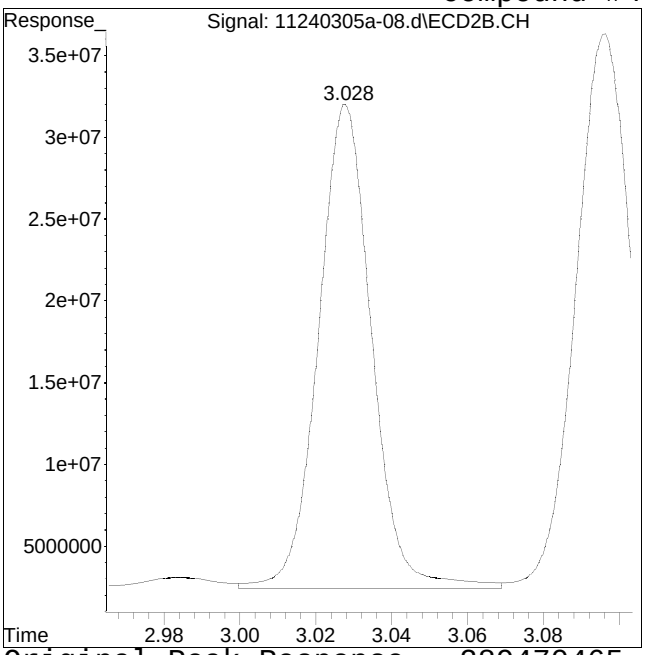


Original Peak Response = 163330859 Manual Peak Response = 161508216 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

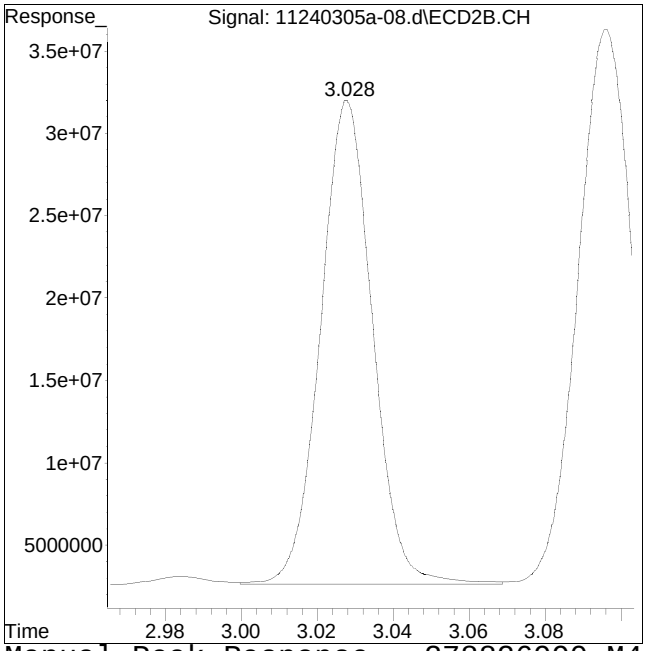
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-08.d Operator : PEST11:mmg
Date Inj'd : 3/5/2024 8:51 am Instrument : Pest 11
Sample : WG1892124-2,42,, Quant Date : 3/5/2024 10:54 am

Compound #45: delta-BHC #2



Original Peak Response = 289470465

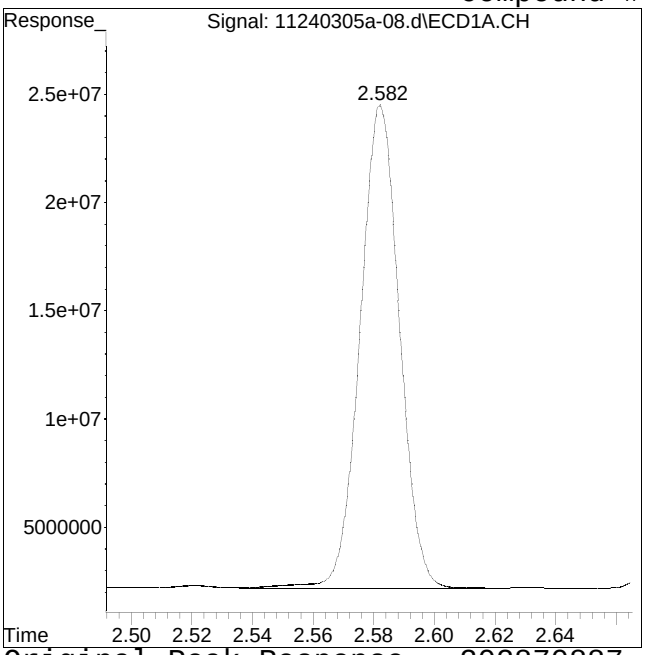


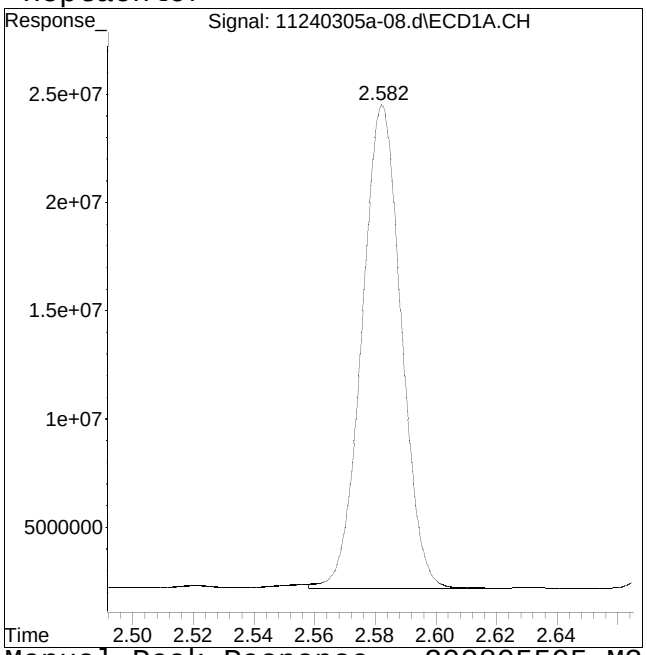
Manual Peak Response = 278826990 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-08.d Operator : PEST11:mmg
Date Inj'd : 3/5/2024 8:51 am Instrument : Pest 11
Sample : WG1892124-2,42,, Quant Date : 3/5/2024 10:54 am

Compound #8: Heptachlor



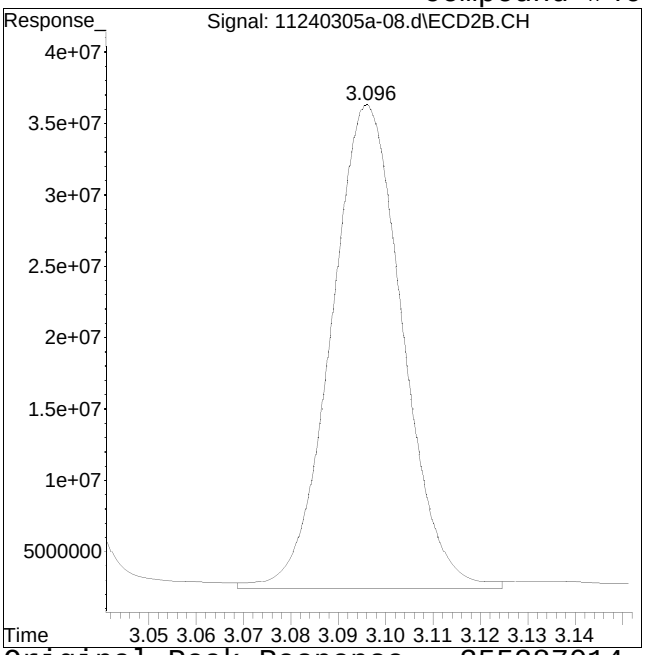


Original Peak Response = 202870887 Manual Peak Response = 200805595 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

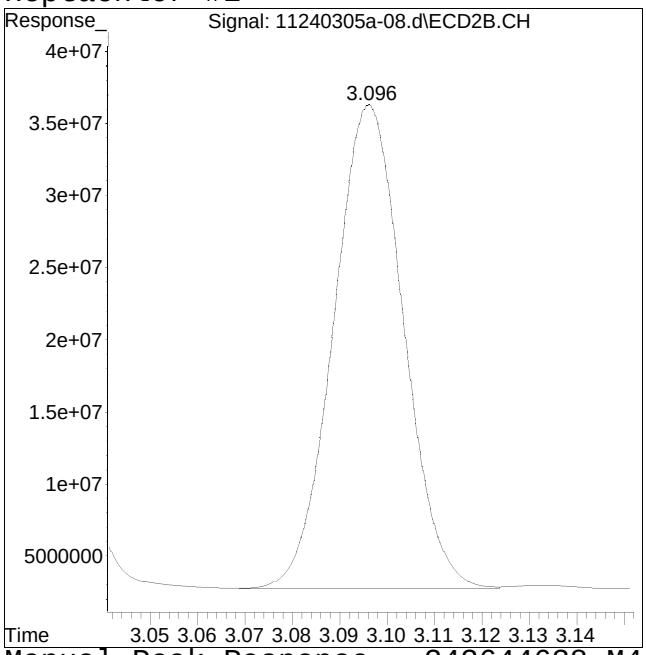
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-08.d Operator : PEST11:mmg
Date Inj'd : 3/5/2024 8:51 am Instrument : Pest 11
Sample : WG1892124-2,42,, Quant Date : 3/5/2024 10:54 am

Compound #46: Heptachlor #2



Original Peak Response = 355387014

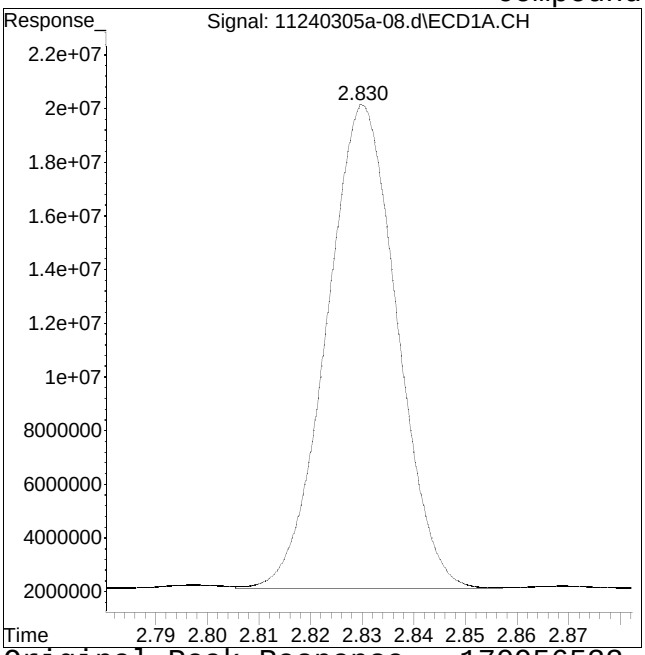


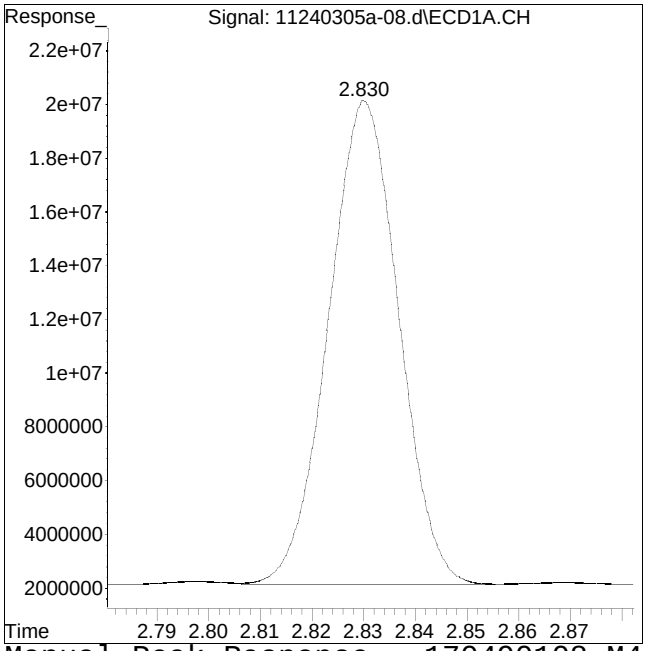
Manual Peak Response = 343644638 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-08.d Operator : PEST11:mmg
Date Inj'd : 3/5/2024 8:51 am Instrument : Pest 11
Sample : WG1892124-2,42,, Quant Date : 3/5/2024 10:54 am

Compound #9: Aldrin



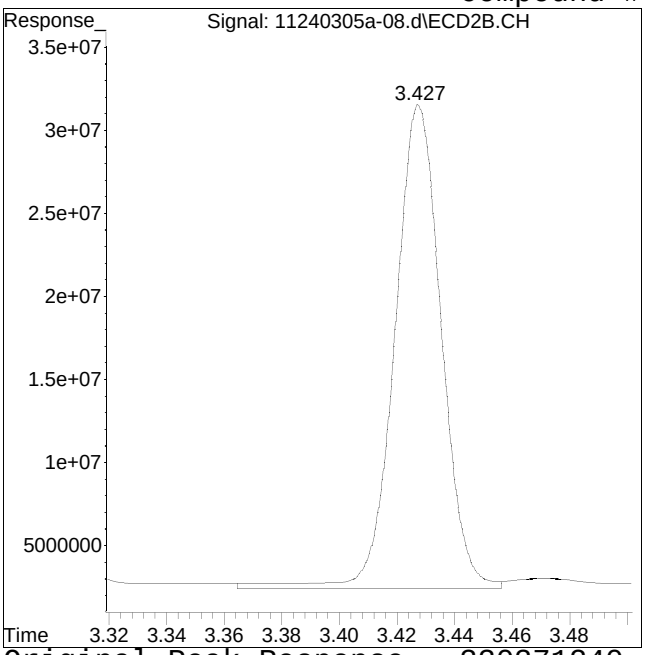


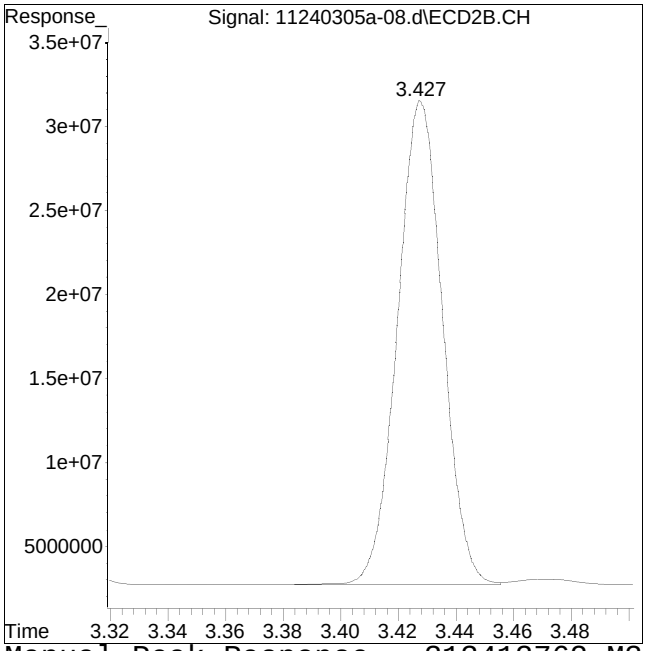
Original Peak Response = 170956533 Manual Peak Response = 170490108 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-08.d Operator : PEST11:mmg
Date Inj'd : 3/5/2024 8:51 am Instrument : Pest 11
Sample : WG1892124-2,42,, Quant Date : 3/5/2024 10:54 am

Compound #47: Aldrin #2



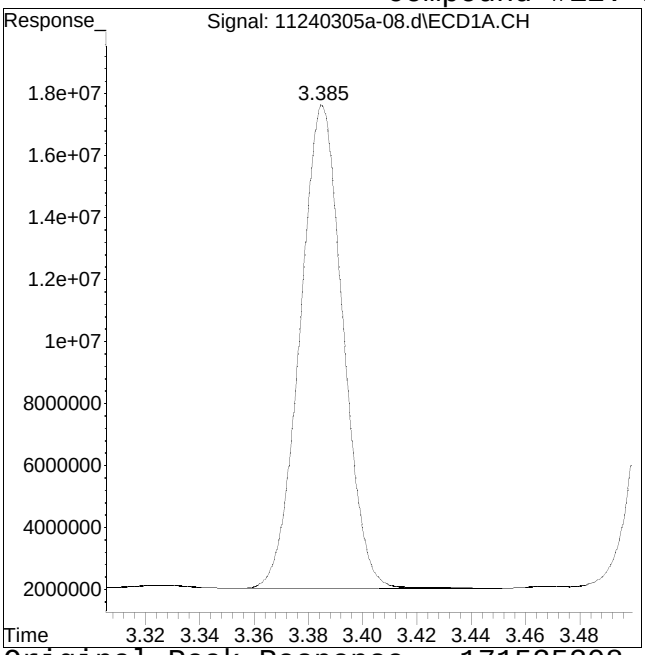


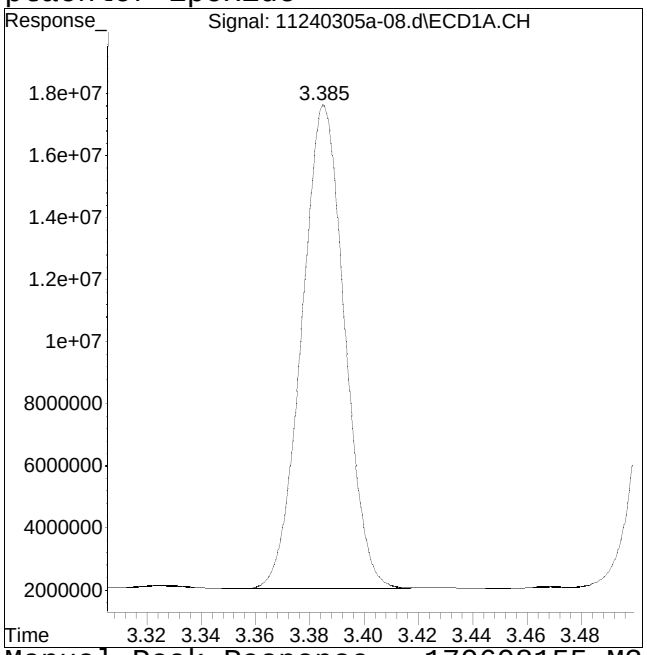
Original Peak Response = 330371240 Manual Peak Response = 313413762 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-08.d Operator : PEST11:mmg
Date Inj'd : 3/5/2024 8:51 am Instrument : Pest 11
Sample : WG1892124-2,42,, Quant Date : 3/5/2024 10:54 am

Compound #12: Heptachlor Epoxide



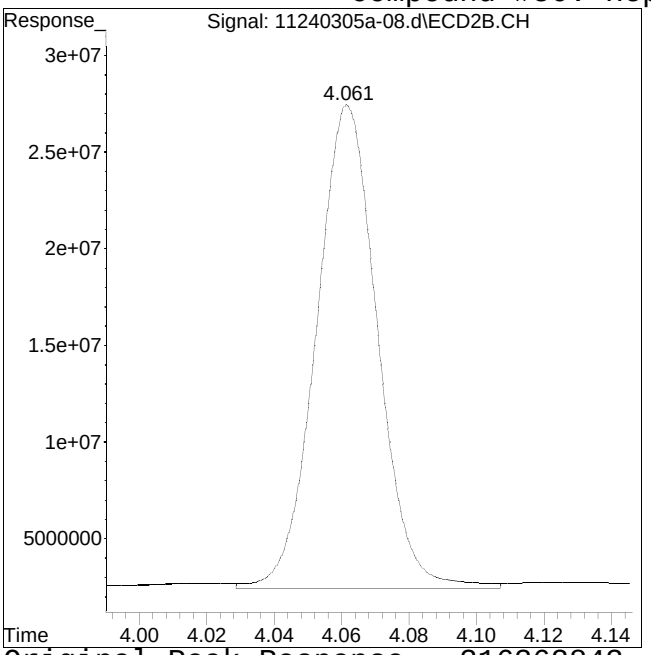


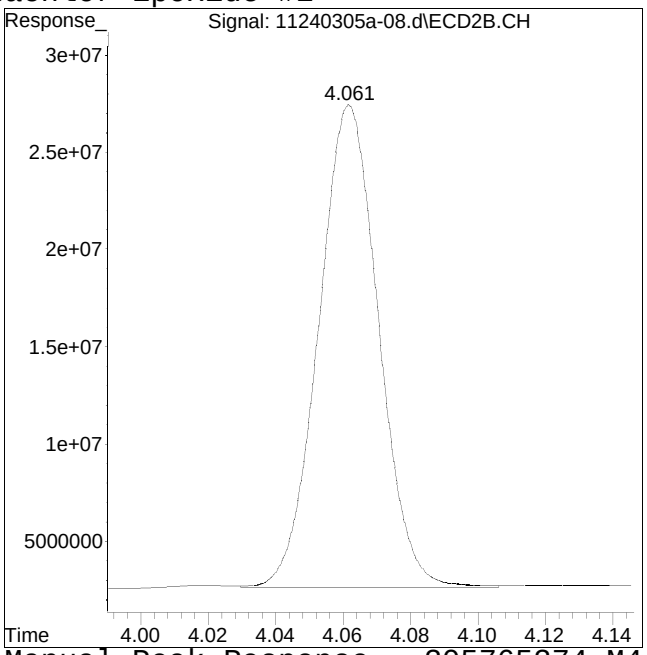
Original Peak Response = 171535308 Manual Peak Response = 170608155 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-08.d Operator : PEST11:mmg
Date Inj'd : 3/5/2024 8:51 am Instrument : Pest 11
Sample : WG1892124-2,42,, Quant Date : 3/5/2024 10:54 am

Compound #50: Heptachlor Epoxide #2



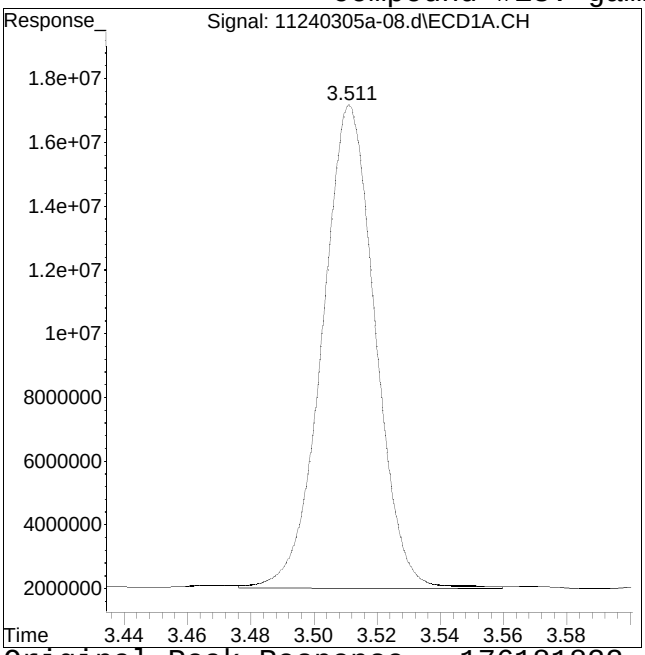


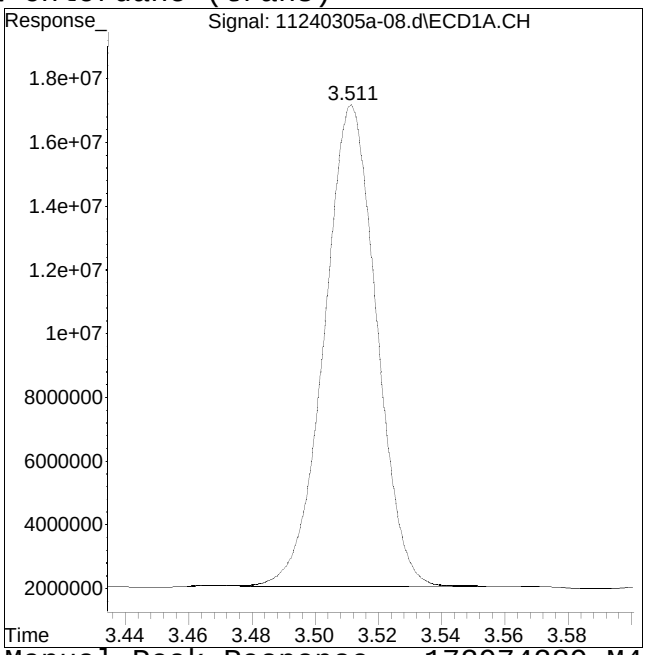
Original Peak Response = 316362843 Manual Peak Response = 305765374 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-08.d Operator : PEST11:mmg
Date Inj'd : 3/5/2024 8:51 am Instrument : Pest 11
Sample : WG1892124-2,42,, Quant Date : 3/5/2024 10:54 am

Compound #13: gamma-Chlordane (trans)



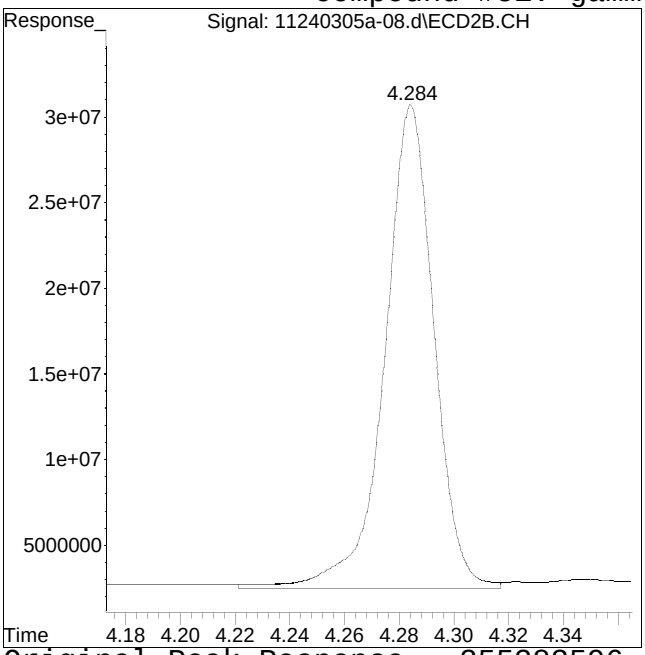


Original Peak Response = 176181822 Manual Peak Response = 172974229 M4
M4 = Poor automated baseline construction.

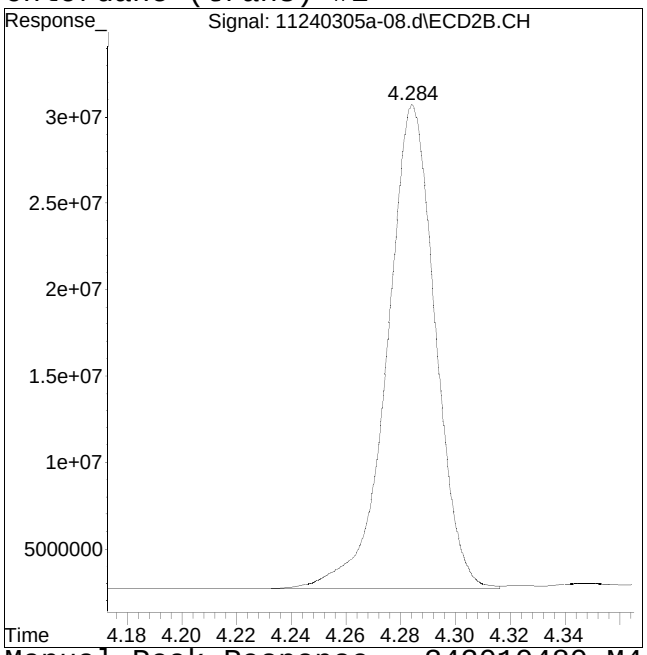
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-08.d Operator : PEST11:mmg
Date Inj'd : 3/5/2024 8:51 am Instrument : Pest 11
Sample : WG1892124-2,42,, Quant Date : 3/5/2024 10:54 am

Compound #51: gamma-Chlordane (trans) #2



Original Peak Response = 355383596



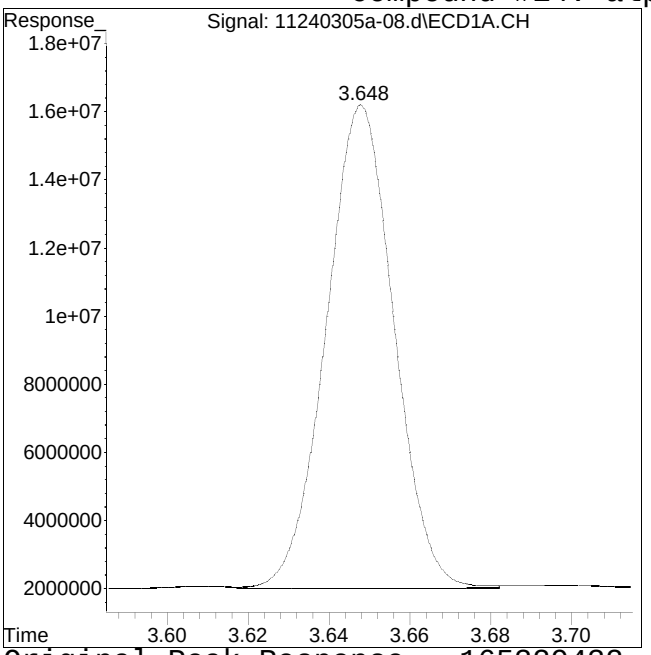
Manual Peak Response = 342010480 M4

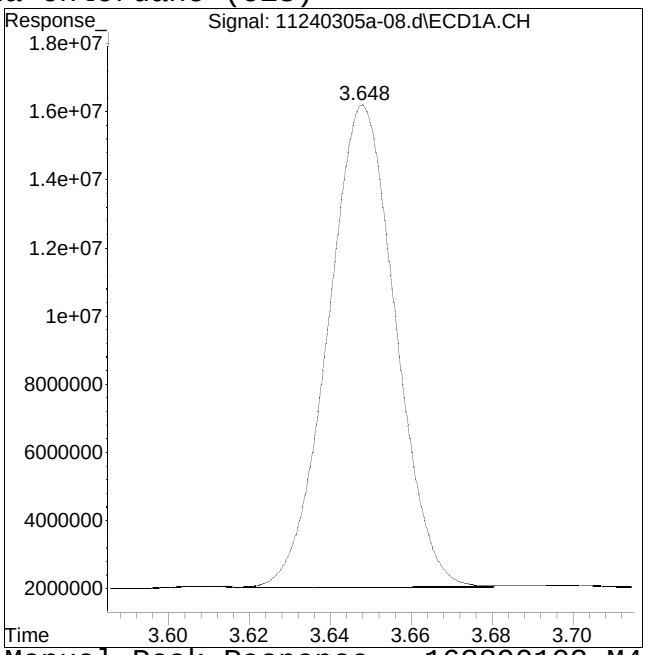
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-08.d Operator : PEST11:mmg
Date Inj'd : 3/5/2024 8:51 am Instrument : Pest 11
Sample : WG1892124-2,42,, Quant Date : 3/5/2024 10:54 am

Compound #14: alpha-Chlordane (cis)



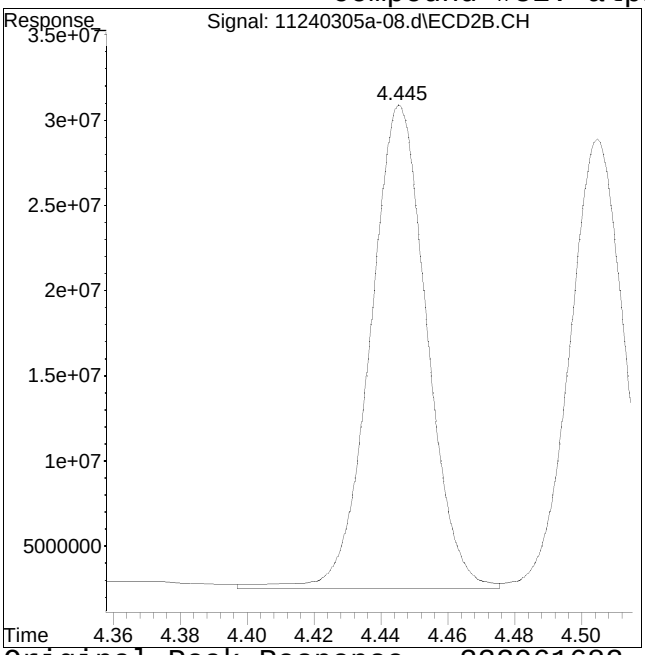


Original Peak Response = 165329432 Manual Peak Response = 163890102 M4
M4 = Poor automated baseline construction.

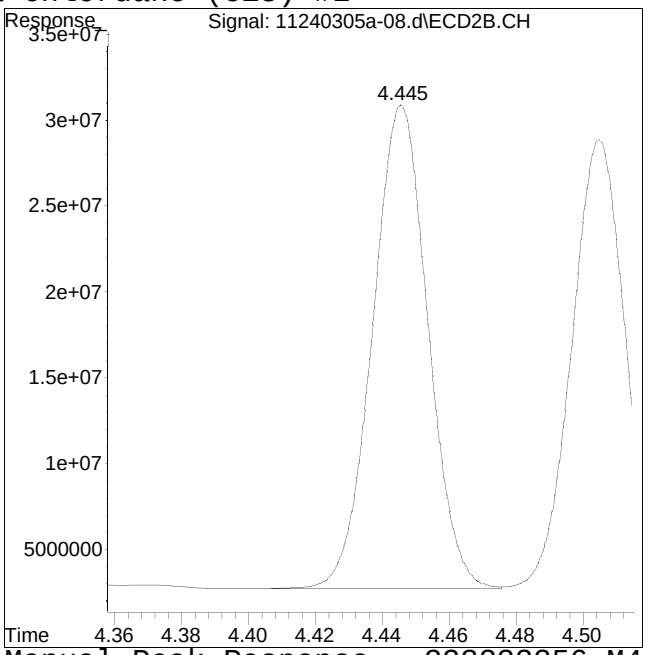
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-08.d Operator : PEST11:mmg
Date Inj'd : 3/5/2024 8:51 am Instrument : Pest 11
Sample : WG1892124-2,42,, Quant Date : 3/5/2024 10:54 am

Compound #52: alpha-Chlordane (cis) #2



Original Peak Response = 332961682

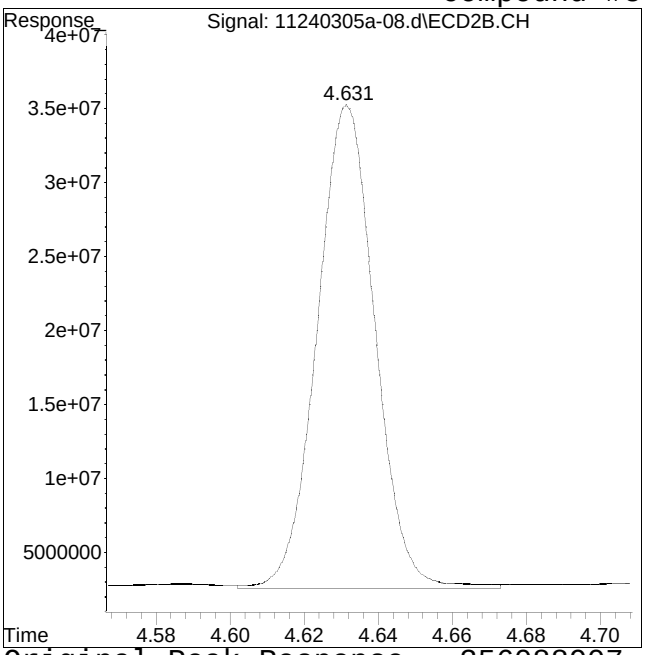


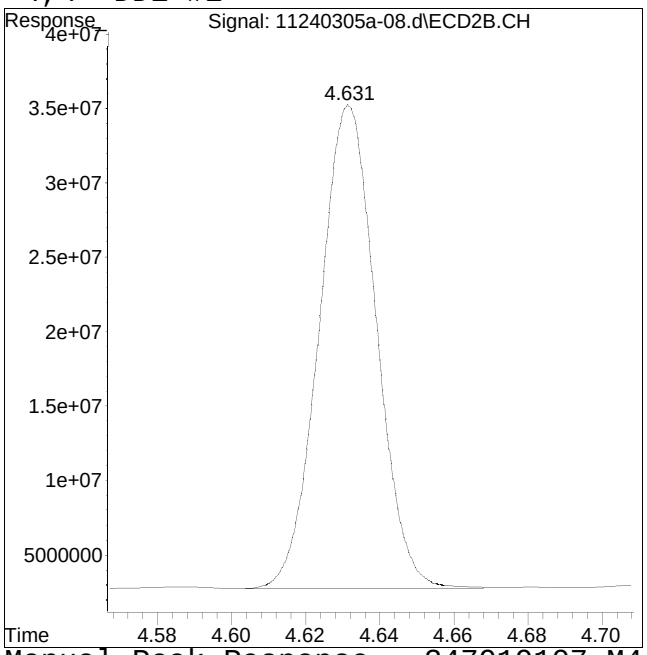
Manual Peak Response = 323233356 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-08.d Operator : PEST11:mmg
Date Inj'd : 3/5/2024 8:51 am Instrument : Pest 11
Sample : WG1892124-2,42,, Quant Date : 3/5/2024 10:54 am

Compound #53: 4,4'-DDE #2



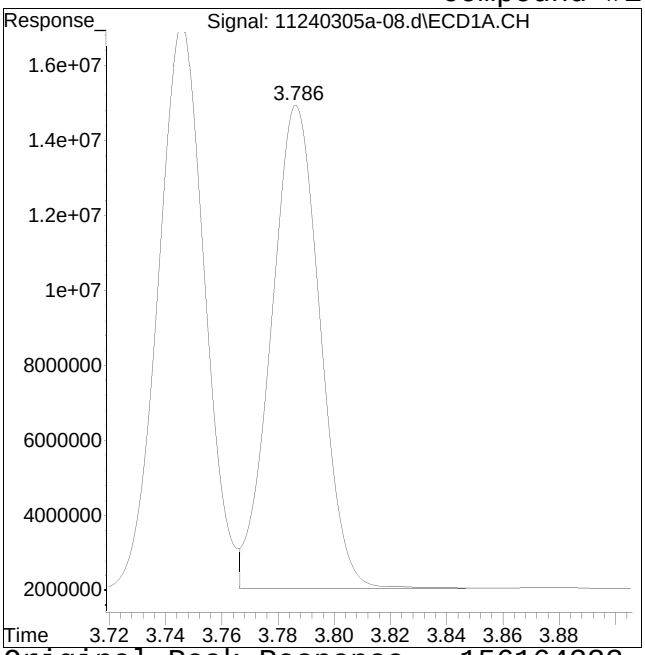


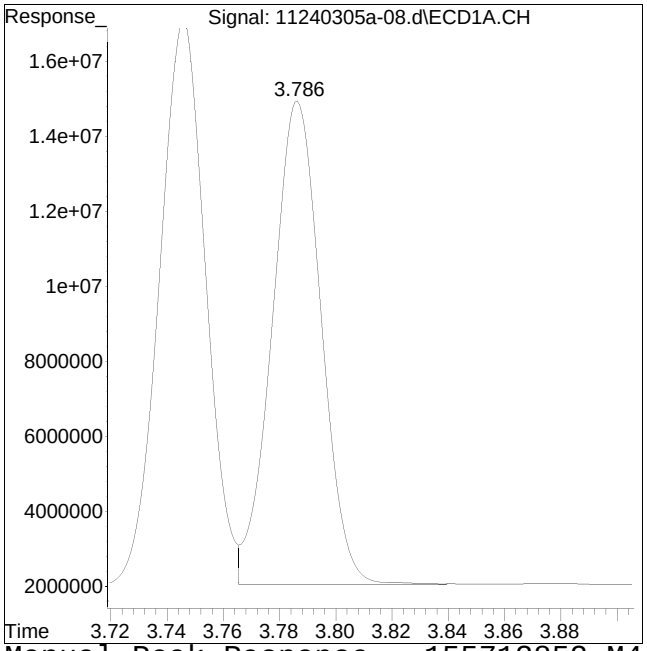
Original Peak Response = 356088907 Manual Peak Response = 347919107 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-08.d Operator : PEST11:mmg
Date Inj'd : 3/5/2024 8:51 am Instrument : Pest 11
Sample : WG1892124-2,42,, Quant Date : 3/5/2024 10:54 am

Compound #16: Endosulfan I



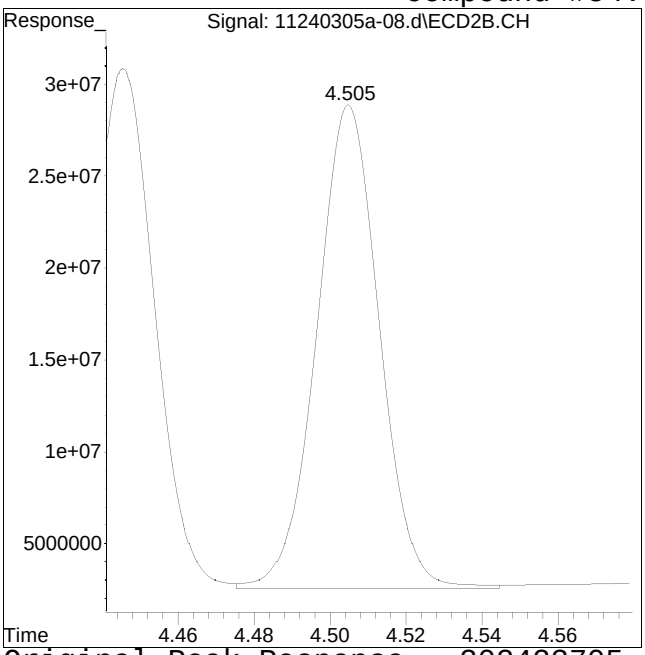


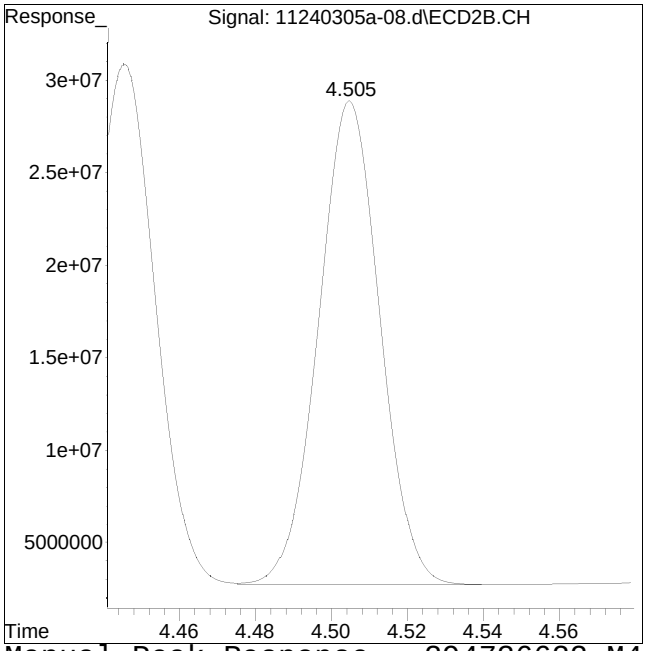
Original Peak Response = 156164333 Manual Peak Response = 155713852 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-08.d Operator : PEST11:mmg
Date Inj'd : 3/5/2024 8:51 am Instrument : Pest 11
Sample : WG1892124-2,42,, Quant Date : 3/5/2024 10:54 am

Compound #54: Endosulfan I #2



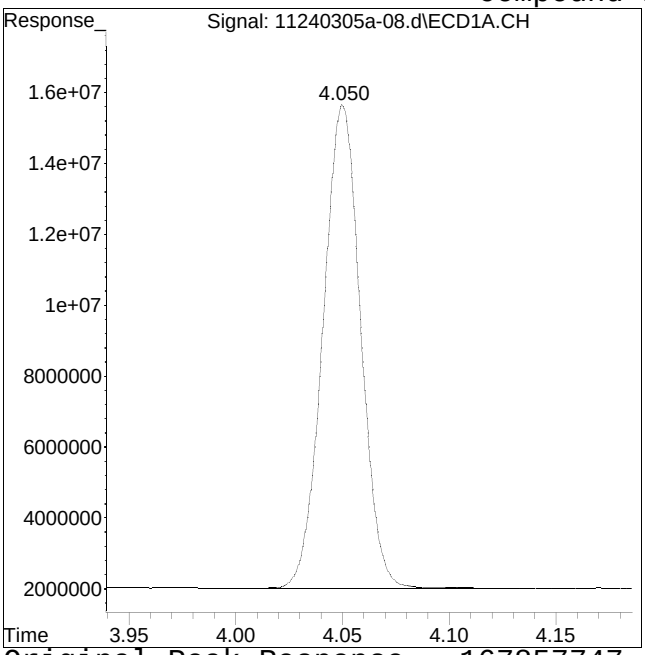


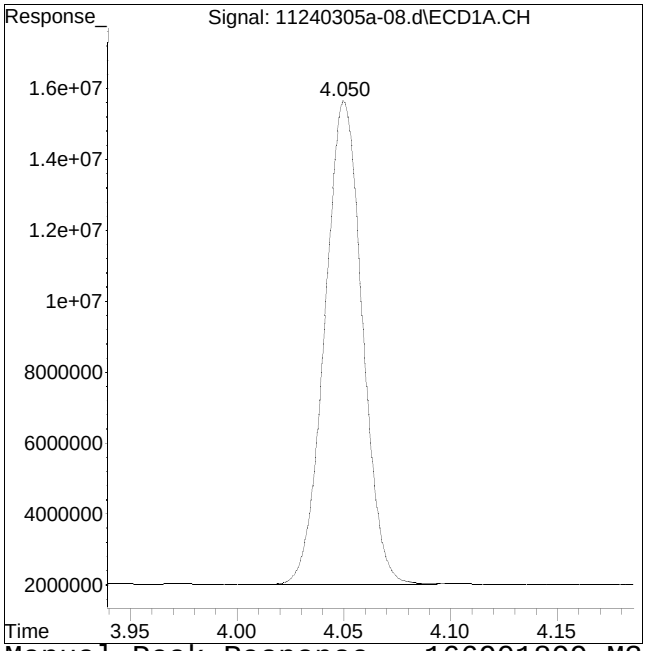
Original Peak Response = 302423705 Manual Peak Response = 294736622 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-08.d Operator : PEST11:mmg
Date Inj'd : 3/5/2024 8:51 am Instrument : Pest 11
Sample : WG1892124-2,42,, Quant Date : 3/5/2024 10:54 am

Compound #17: Dieldrin



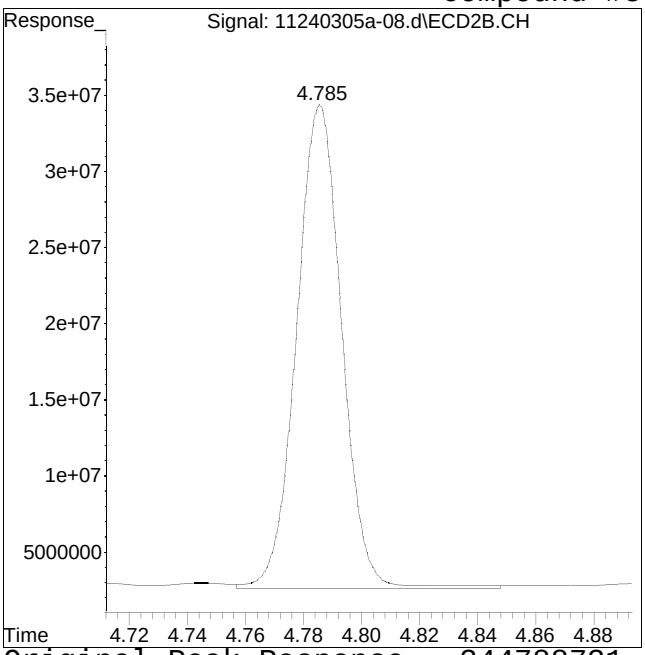


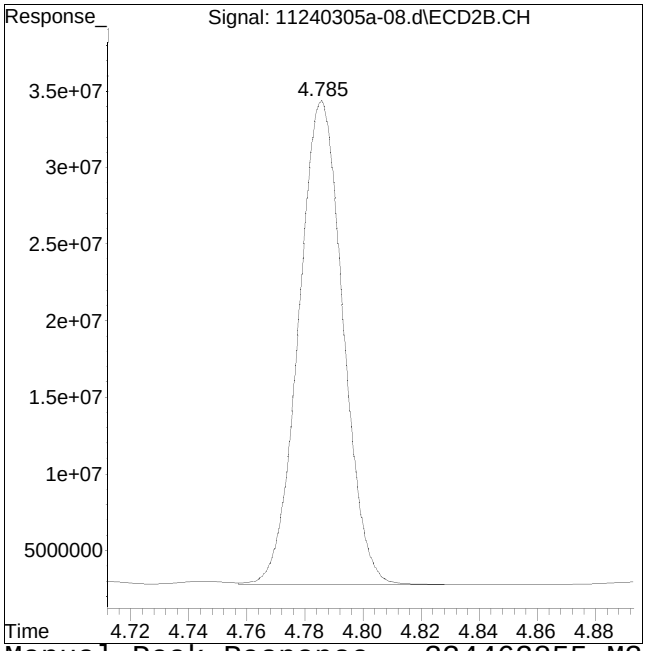
Original Peak Response = 167857747 Manual Peak Response = 166901899 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-08.d Operator : PEST11:mmg
Date Inj'd : 3/5/2024 8:51 am Instrument : Pest 11
Sample : WG1892124-2,42,, Quant Date : 3/5/2024 10:54 am

Compound #55: Dieldrin #2



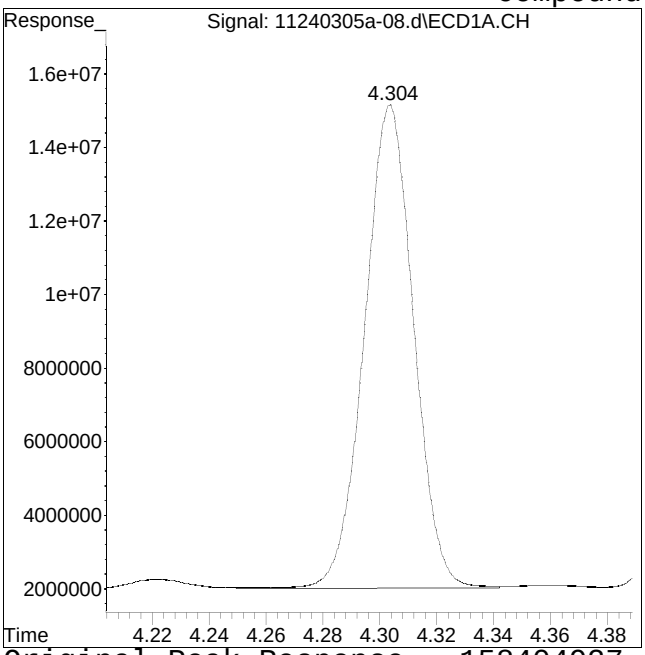


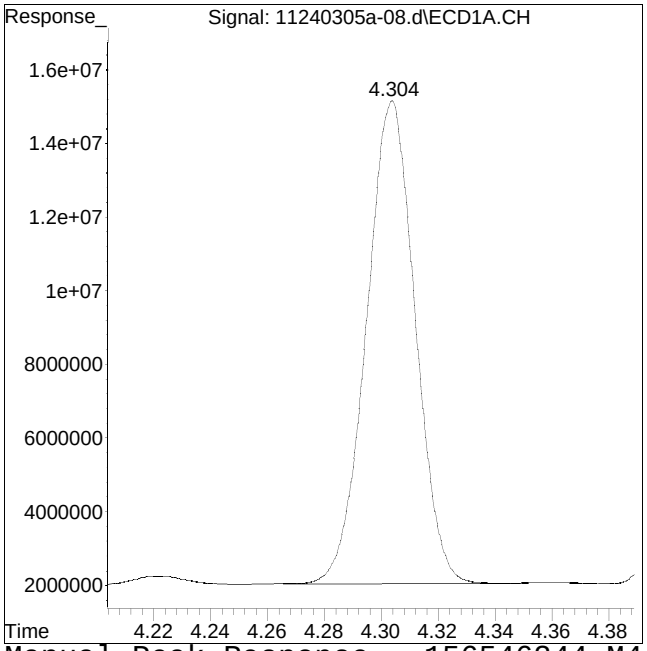
Original Peak Response = 344788731 Manual Peak Response = 334463855 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-08.d Operator : PEST11:mmg
Date Inj'd : 3/5/2024 8:51 am Instrument : Pest 11
Sample : WG1892124-2,42,, Quant Date : 3/5/2024 10:54 am

Compound #18: Endrin



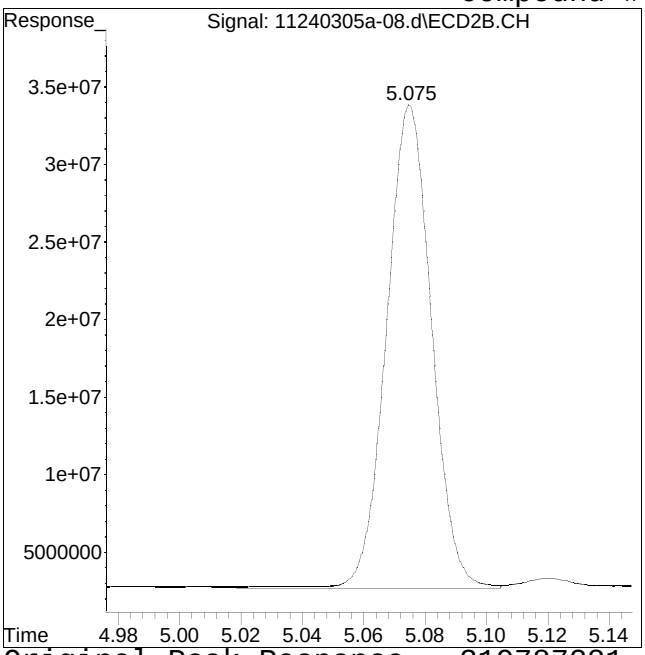


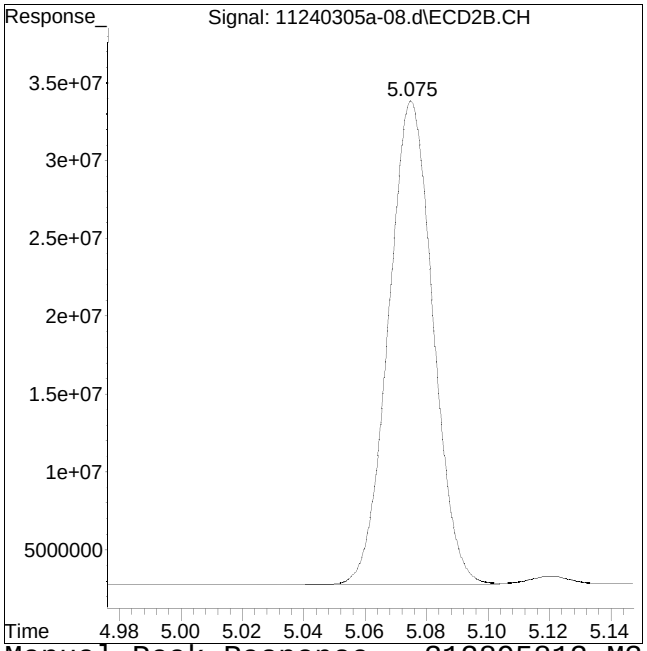
Original Peak Response = 158404927 Manual Peak Response = 156546244 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-08.d Operator : PEST11:mmg
Date Inj'd : 3/5/2024 8:51 am Instrument : Pest 11
Sample : WG1892124-2,42,, Quant Date : 3/5/2024 10:54 am

Compound #56: Endrin #2



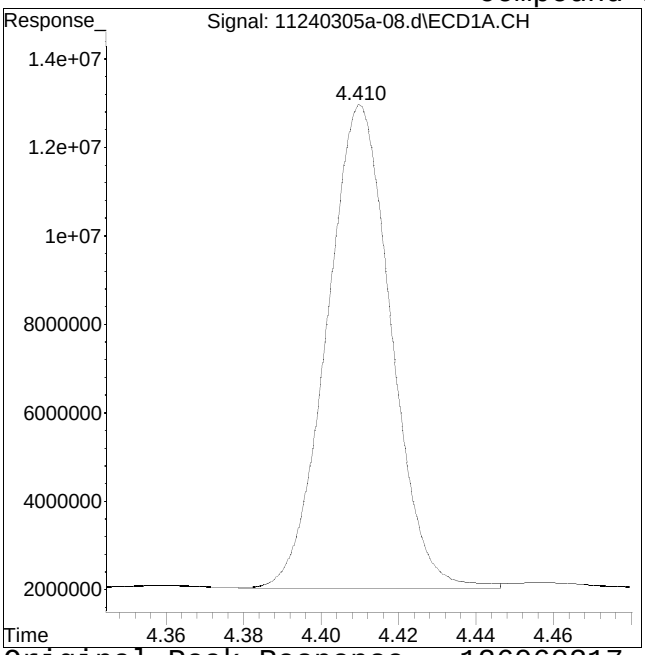


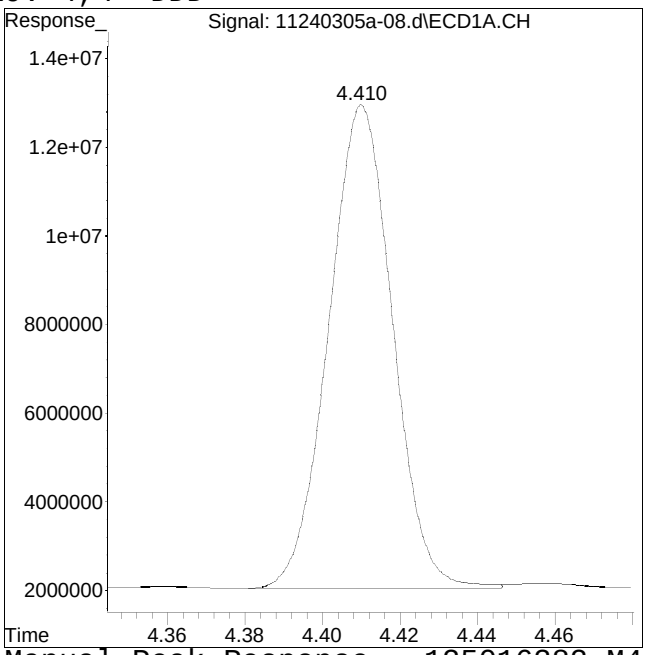
Original Peak Response = 319787281 Manual Peak Response = 312895813 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-08.d Operator : PEST11:mmg
Date Inj'd : 3/5/2024 8:51 am Instrument : Pest 11
Sample : WG1892124-2,42,, Quant Date : 3/5/2024 10:54 am

Compound #19: 4,4'-DDD



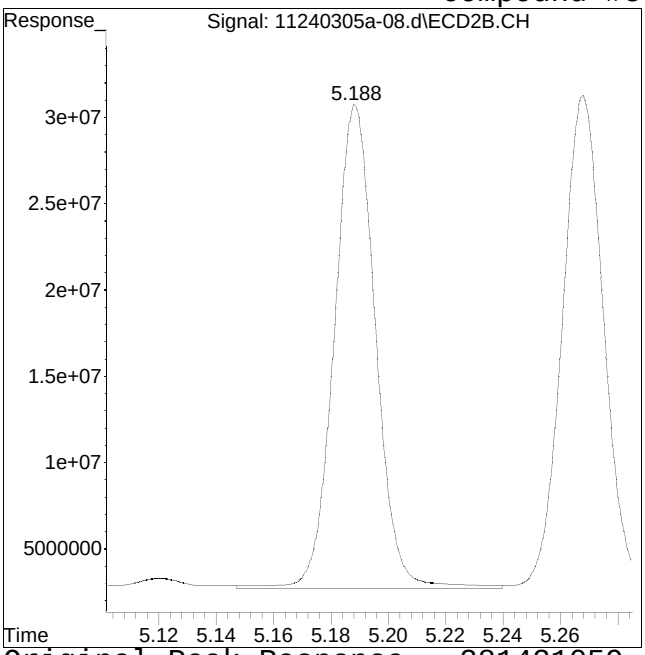


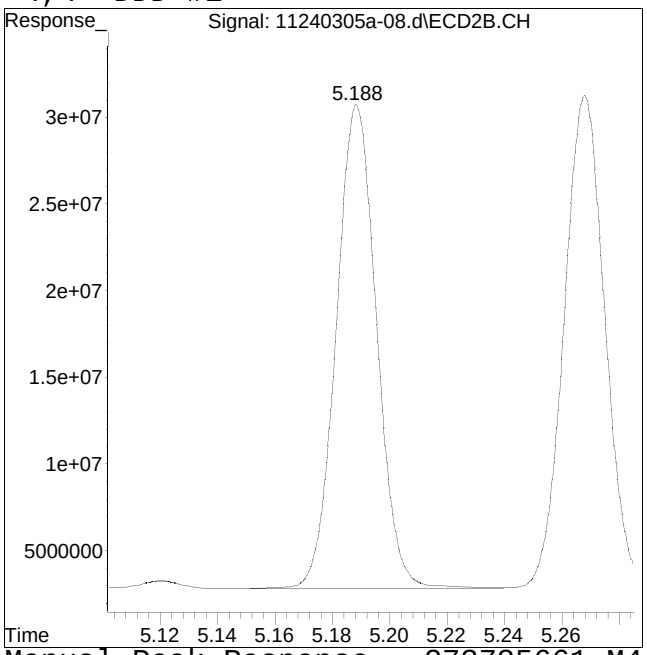
Original Peak Response = 126060317 Manual Peak Response = 125016382 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-08.d Operator : PEST11:mmg
Date Inj'd : 3/5/2024 8:51 am Instrument : Pest 11
Sample : WG1892124-2,42,, Quant Date : 3/5/2024 10:54 am

Compound #57: 4,4'-DDD #2



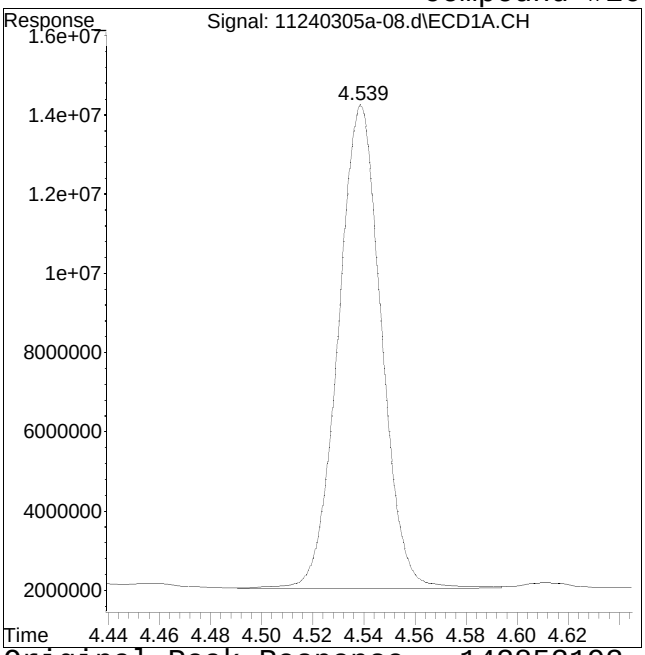


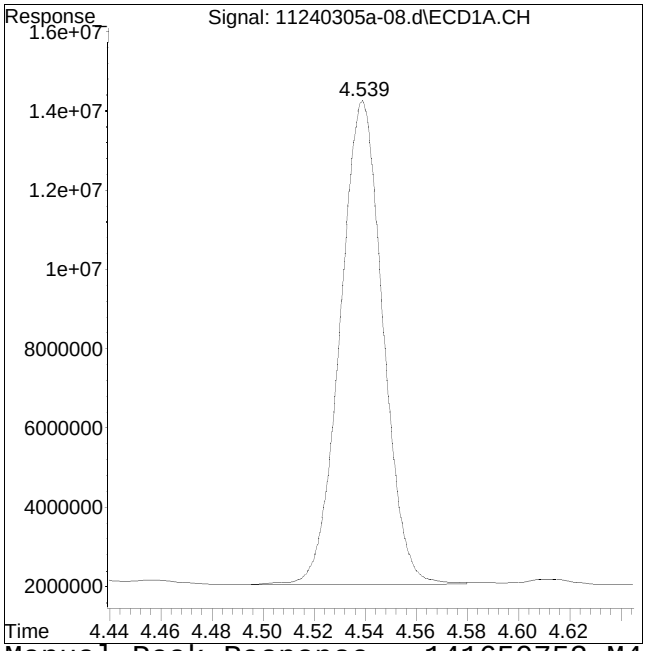
Original Peak Response = 281421059 Manual Peak Response = 273735661 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-08.d Operator : PEST11:mmg
Date Inj'd : 3/5/2024 8:51 am Instrument : Pest 11
Sample : WG1892124-2,42,, Quant Date : 3/5/2024 10:54 am

Compound #20: Endosulfan II



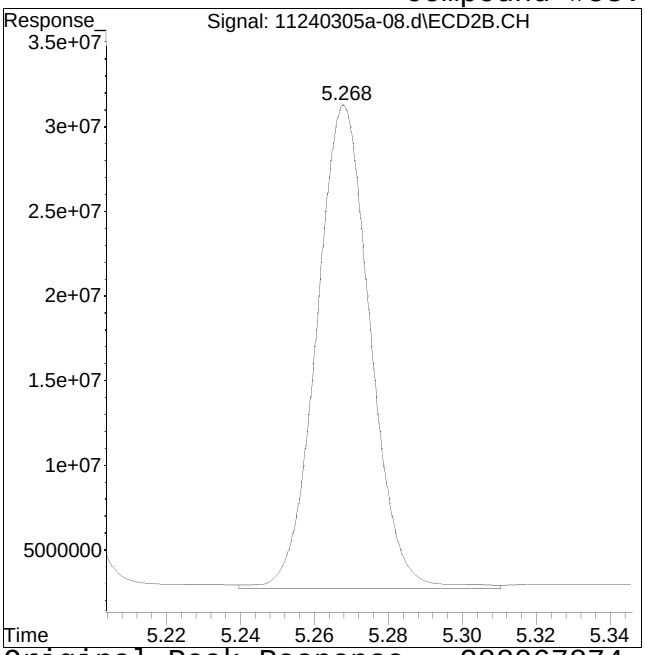


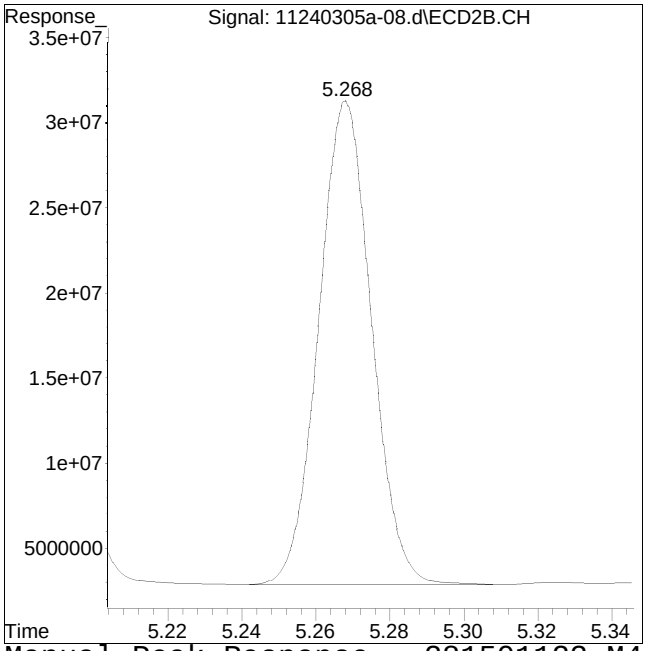
Original Peak Response = 142852193 Manual Peak Response = 141650753 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-08.d Operator : PEST11:mmg
Date Inj'd : 3/5/2024 8:51 am Instrument : Pest 11
Sample : WG1892124-2,42,, Quant Date : 3/5/2024 10:54 am

Compound #58: Endosulfan II #2



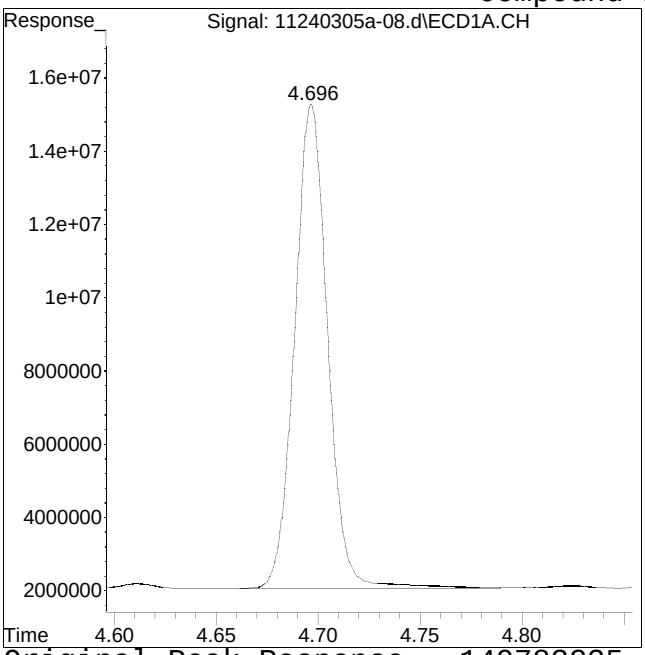


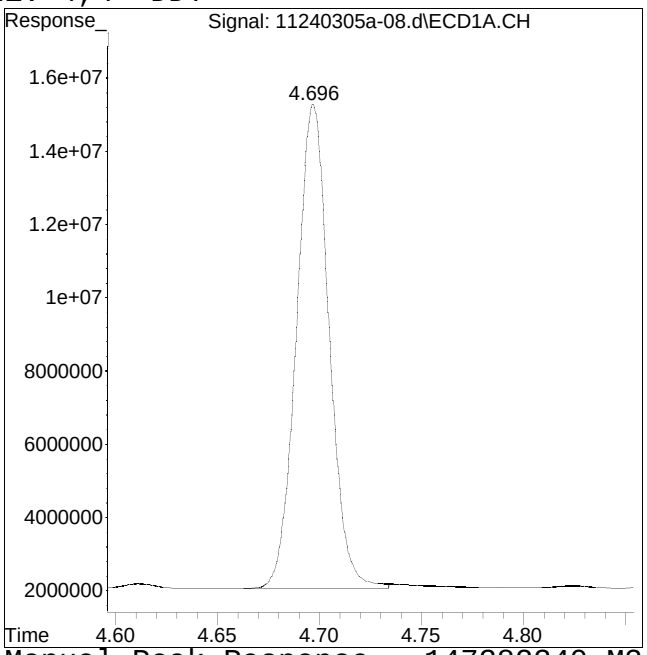
Original Peak Response = 288067874 Manual Peak Response = 281501123 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-08.d Operator : PEST11:mmg
Date Inj'd : 3/5/2024 8:51 am Instrument : Pest 11
Sample : WG1892124-2,42,, Quant Date : 3/5/2024 10:54 am

Compound #21: 4,4'-DDT



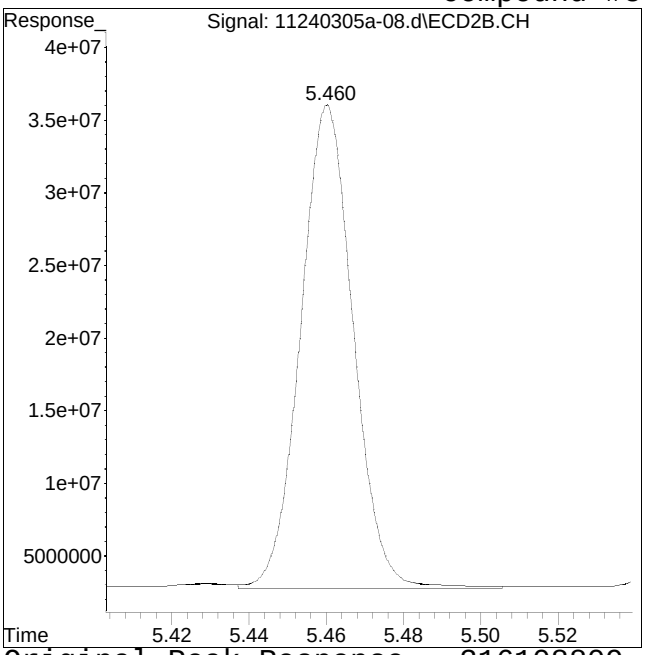


Original Peak Response = 149783235 Manual Peak Response = 147382340 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

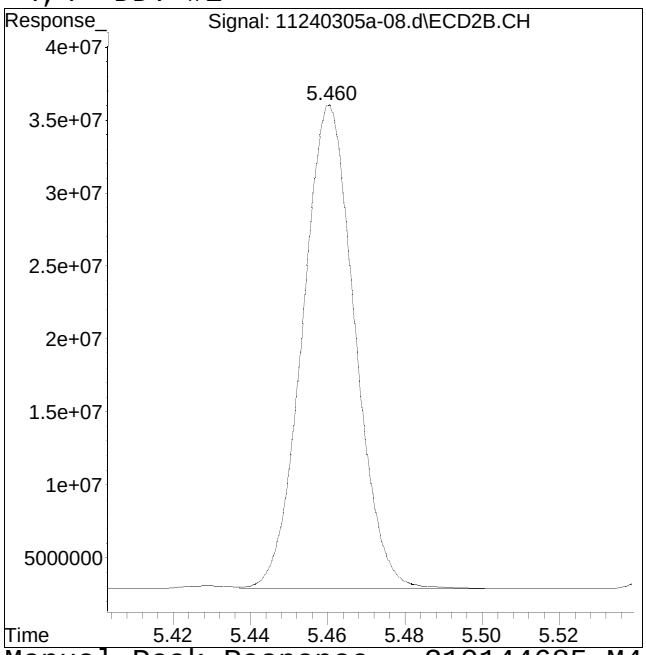
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-08.d Operator : PEST11:mmg
Date Inj'd : 3/5/2024 8:51 am Instrument : Pest 11
Sample : WG1892124-2,42,, Quant Date : 3/5/2024 10:54 am

Compound #59: 4,4'-DDT #2



Original Peak Response = 316108809

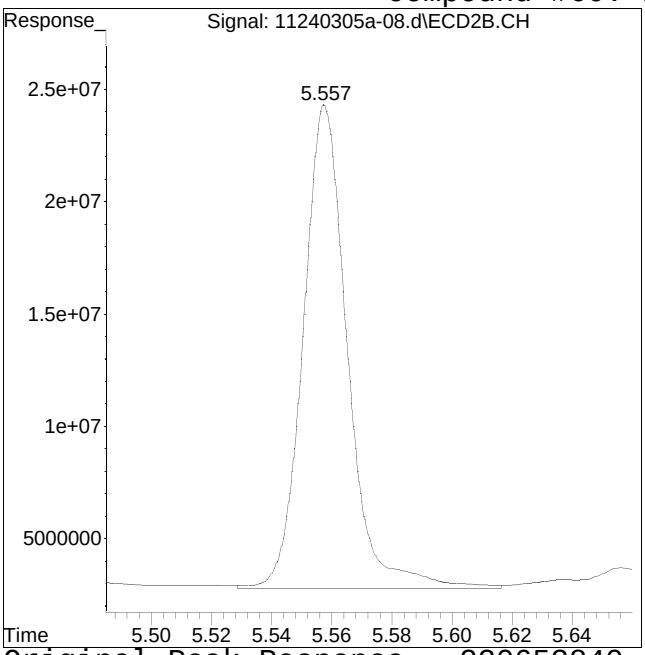


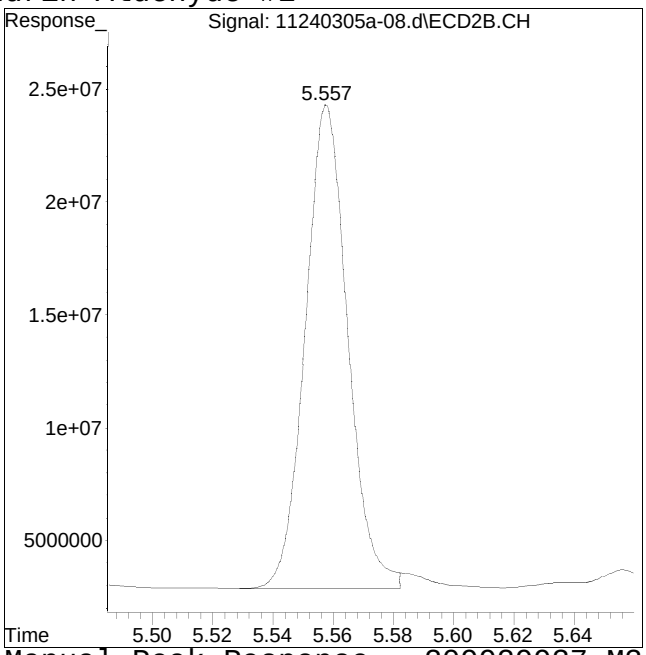
Manual Peak Response = 310144685 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-08.d Operator : PEST11:mmg
Date Inj'd : 3/5/2024 8:51 am Instrument : Pest 11
Sample : WG1892124-2,42,, Quant Date : 3/5/2024 10:54 am

Compound #60: Endrin Aldehyde #2



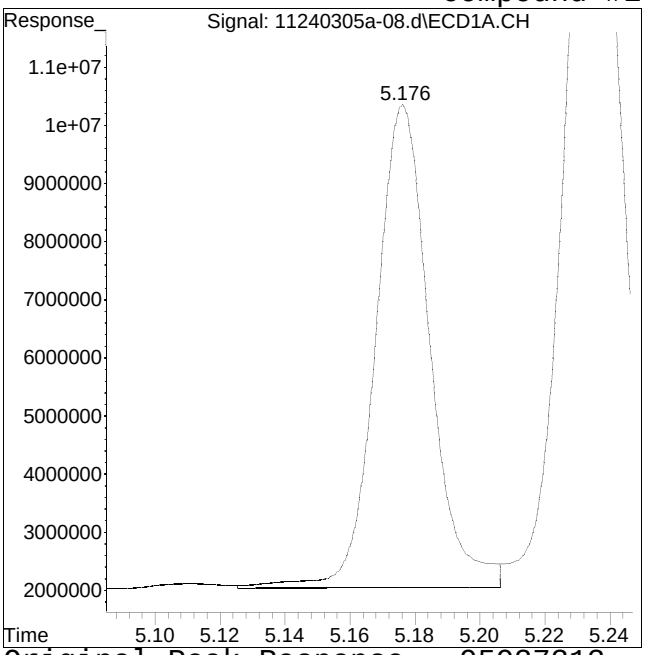


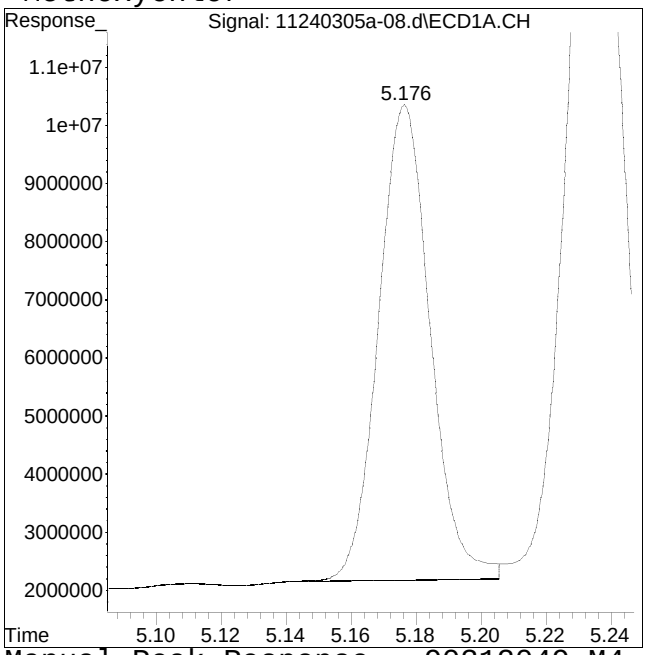
Original Peak Response = 220653840 Manual Peak Response = 209929937 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-08.d Operator : PEST11:mmg
Date Inj'd : 3/5/2024 8:51 am Instrument : Pest 11
Sample : WG1892124-2,42,, Quant Date : 3/5/2024 10:54 am

Compound #23: Methoxychlor



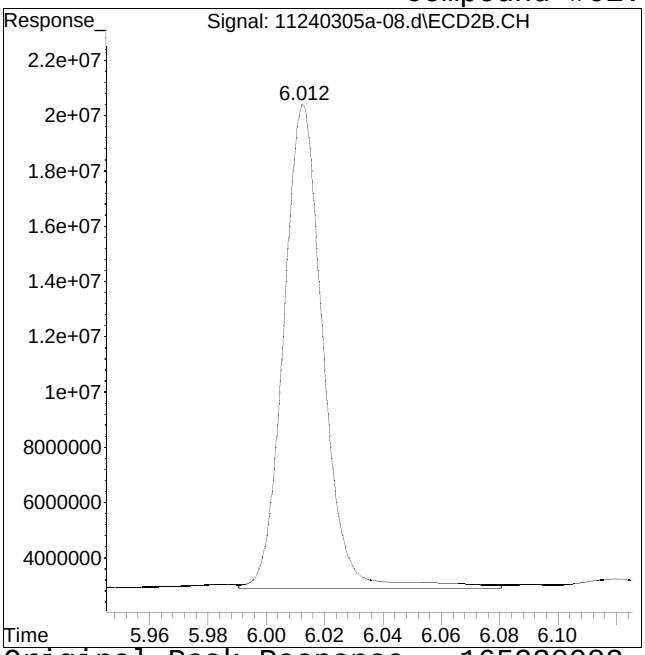


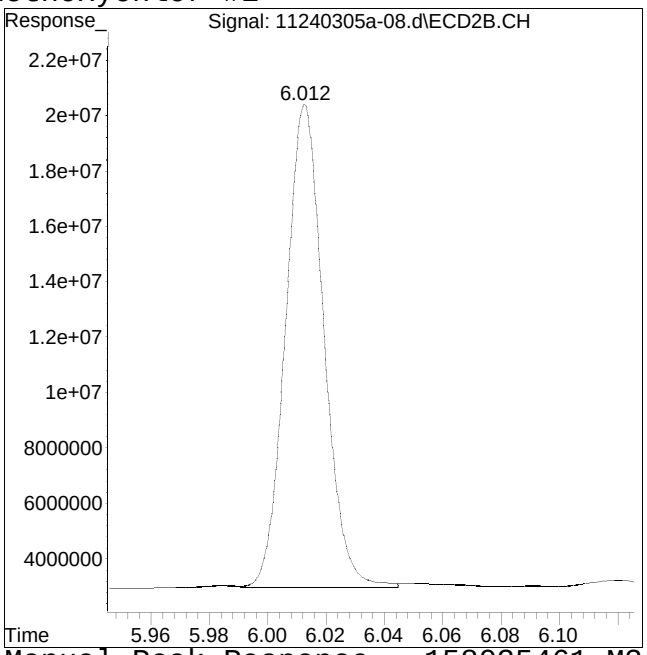
Original Peak Response = 95937313 Manual Peak Response = 90312049 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-08.d Operator : PEST11:mmg
Date Inj'd : 3/5/2024 8:51 am Instrument : Pest 11
Sample : WG1892124-2,42,, Quant Date : 3/5/2024 10:54 am

Compound #61: Methoxychlor #2



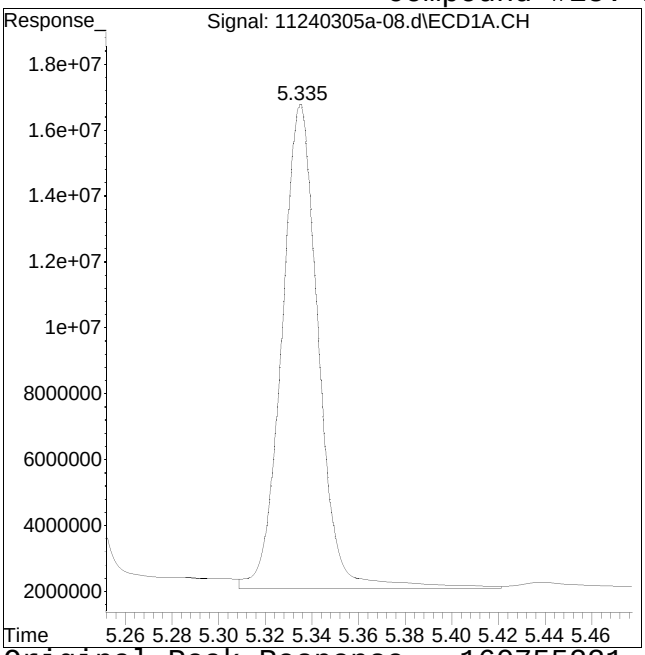


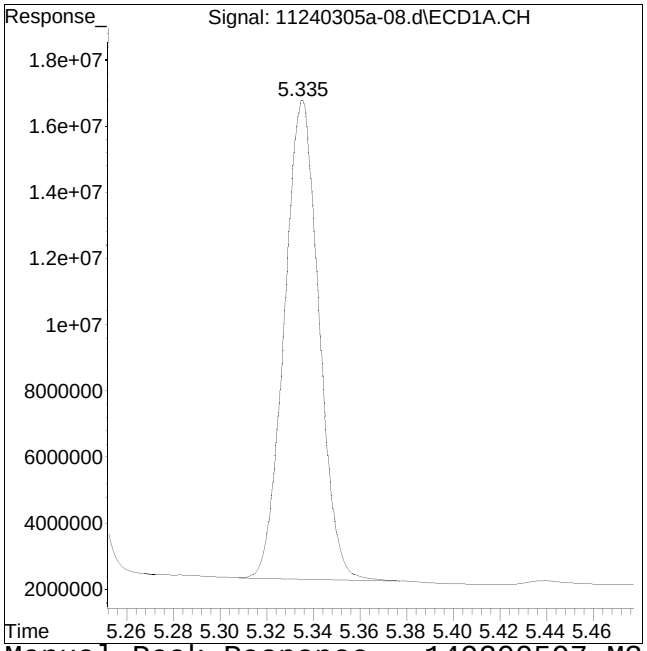
Original Peak Response = 165230982 Manual Peak Response = 158035461 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-08.d Operator : PEST11:mmg
Date Inj'd : 3/5/2024 8:51 am Instrument : Pest 11
Sample : WG1892124-2,42,, Quant Date : 3/5/2024 10:54 am

Compound #25: Endosulfan Sulfate



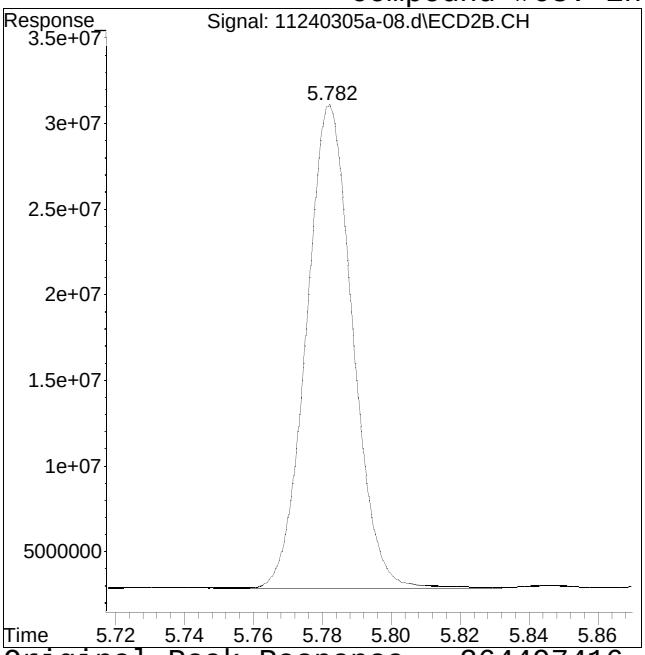


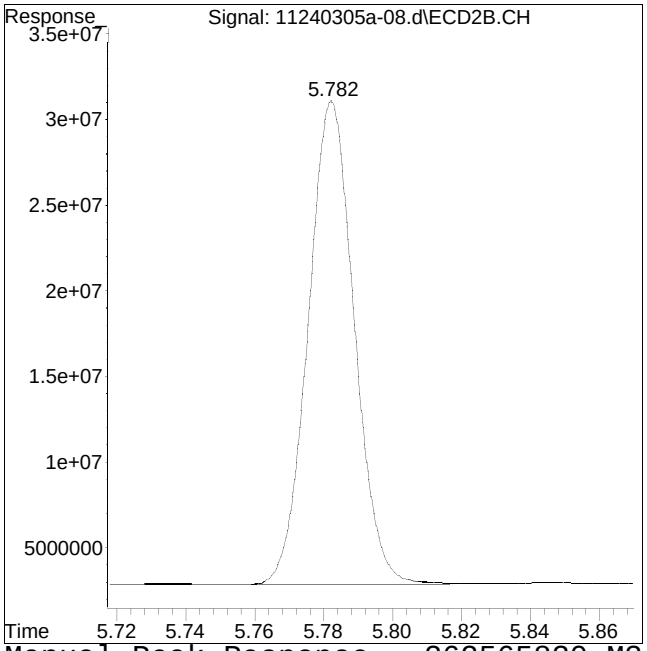
Original Peak Response = 160755221 Manual Peak Response = 149300597 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-08.d Operator : PEST11:mmg
Date Inj'd : 3/5/2024 8:51 am Instrument : Pest 11
Sample : WG1892124-2,42,, Quant Date : 3/5/2024 10:54 am

Compound #63: Endosulfan Sulfate #2



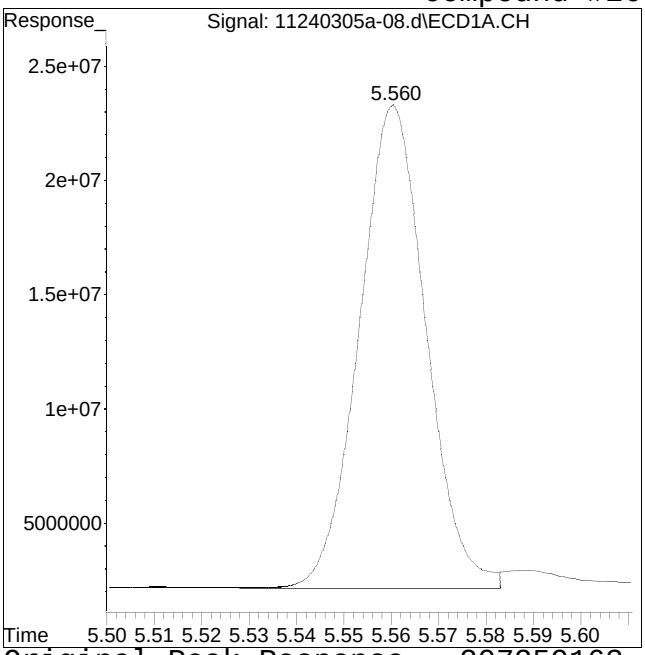


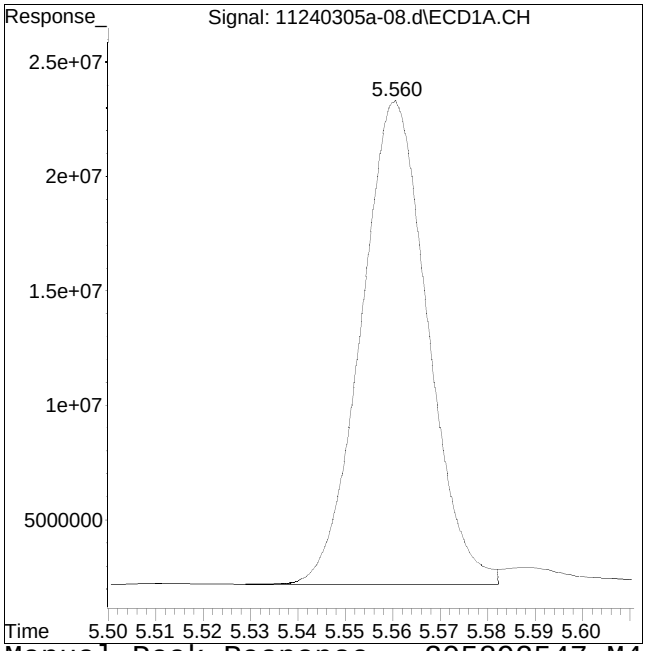
Original Peak Response = 264497416 Manual Peak Response = 262565830 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-08.d Operator : PEST11:mmg
Date Inj'd : 3/5/2024 8:51 am Instrument : Pest 11
Sample : WG1892124-2,42,, Quant Date : 3/5/2024 10:54 am

Compound #26: Endrin Ketone



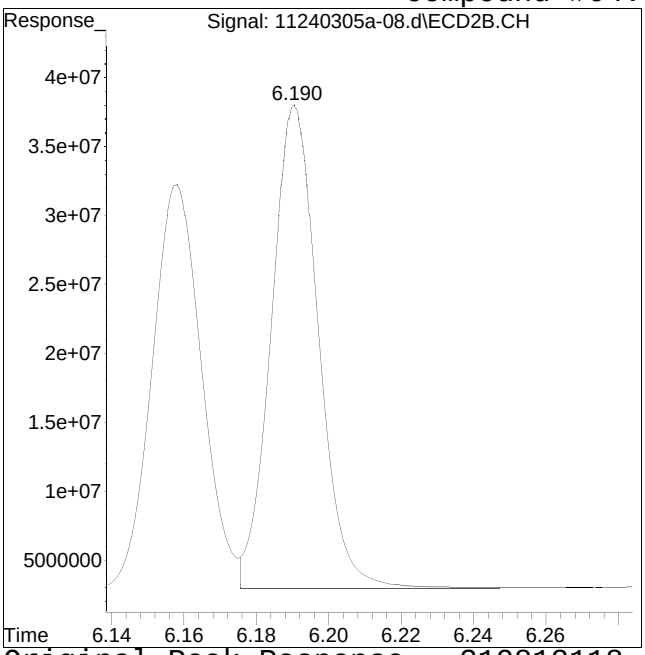


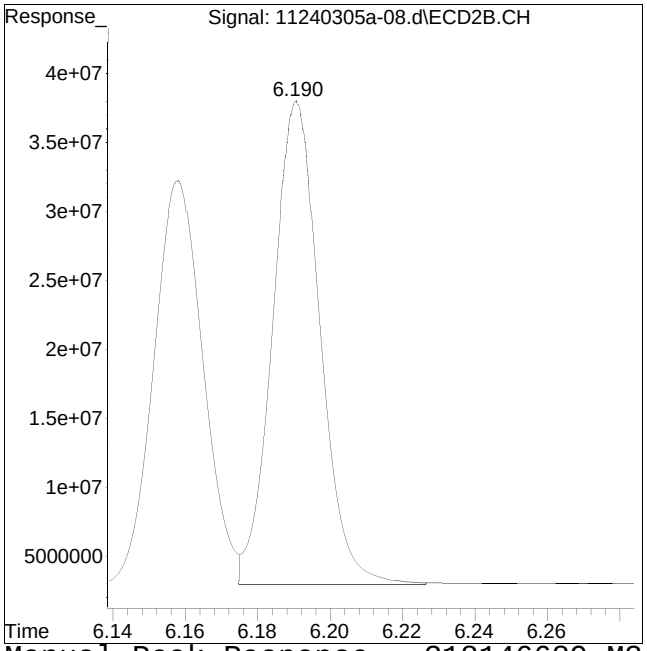
Original Peak Response = 207259163 Manual Peak Response = 205892547 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-08.d Operator : PEST11:mmg
Date Inj'd : 3/5/2024 8:51 am Instrument : Pest 11
Sample : WG1892124-2,42,, Quant Date : 3/5/2024 10:54 am

Compound #64: Endrin Ketone #2



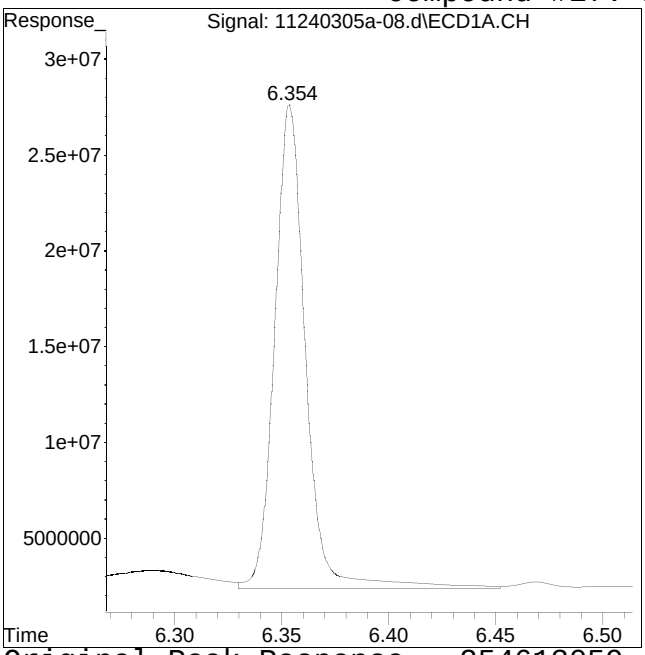


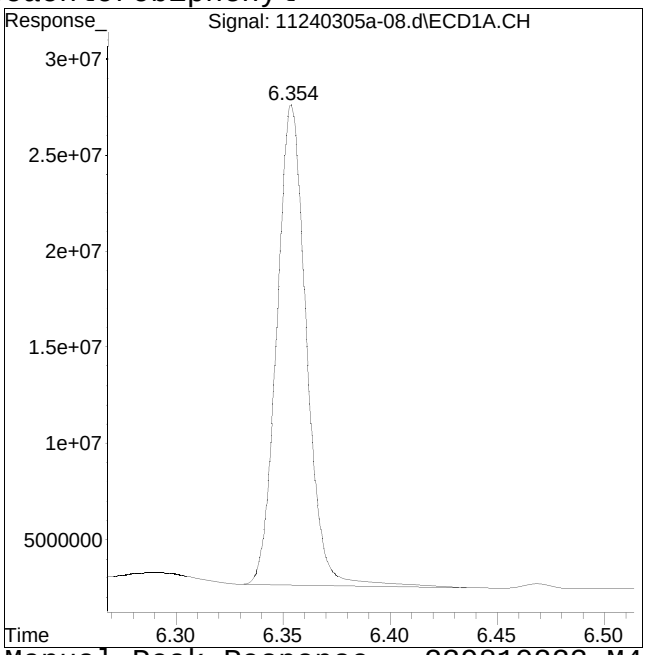
Original Peak Response = 319812118 Manual Peak Response = 318146689 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-08.d Operator : PEST11:mmg
Date Inj'd : 3/5/2024 8:51 am Instrument : Pest 11
Sample : WG1892124-2,42,, Quant Date : 3/5/2024 10:54 am

Compound #27: Decachlorobiphenyl



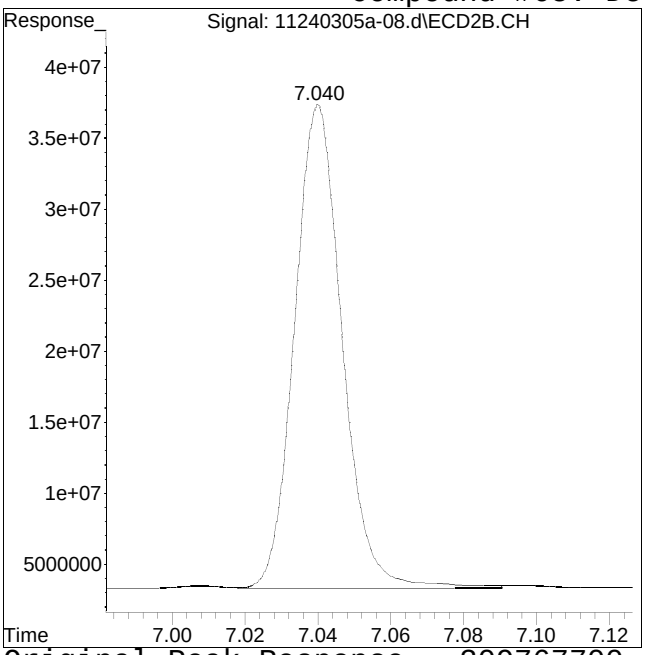


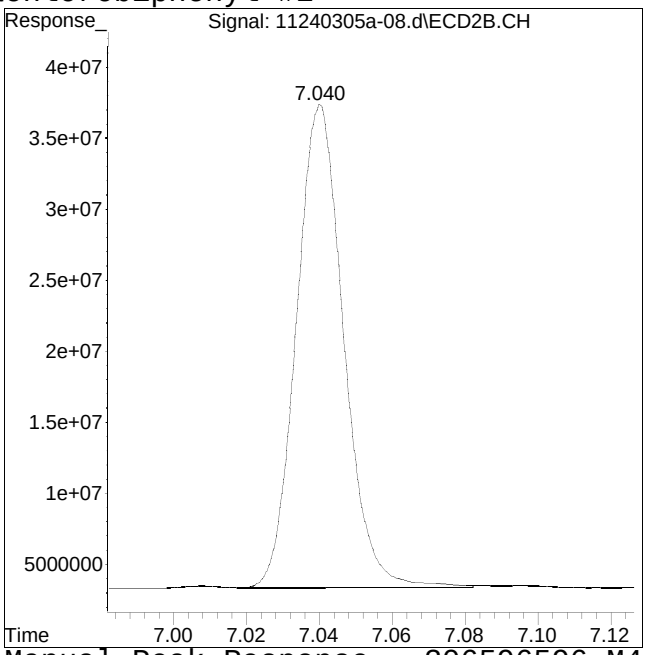
Original Peak Response = 254613059 Manual Peak Response = 239810223 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-08.d Operator : PEST11:mmg
Date Inj'd : 3/5/2024 8:51 am Instrument : Pest 11
Sample : WG1892124-2,42,, Quant Date : 3/5/2024 10:54 am

Compound #65: Decachlorobiphenyl #2





Original Peak Response = 309767700 Manual Peak Response = 306596596 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest20\2024\240302a\
Data File : 20240302a-25.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 02 Mar 2024 04:07 pm
Operator : pest20:jag
Sample : WG1891324-3,42,,
Misc : wg1891472,WG1891324,ical20686
ALS Vial : 25 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Mar 02 16:41:35 2024
Quant Method : I:\PEST\Pest20\2024\240302a\pest20_2023_12_15_ugL_ICAL20686.m
Quant Title : pest
QLast Update : Sat Mar 02 08:11:36 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest20\2024\240302a\20240302a-03.D
Sub List : LCS_MS - spk only

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards							
1) i	1-br-2-nb_Pe	1.763	1.923	56103796	58723895	25.000M4	25.000M4
	Standard Area 1 : #1 = 54033745				Recovery = 103.83%		
	Standard Area 1 : #2 = 56427660				Recovery = 104.07%		
System Monitoring Compounds							
2) s	2,4,5,6-Tetr	2.211	2.518	88903150	94183773	34.986	32.847
	Spiked Amount 50.000	Range 30 - 150			Recovery = 69.97%		65.69%
27) s	Decachlorobi	7.062	7.775	94216213	79547619	42.613M4	37.223M4
	Spiked Amount 50.000	Range 30 - 150			Recovery = 85.23%		74.45%
Target Compounds							
4)	alpha-BHC	2.578	2.996	112.0E6	109.2E6	35.642	31.840
5)	gamma-BHC (l	2.807	3.312	103.2E6	102.5E6	35.422	32.094
6)	beta-BHC	2.874	3.387	49325640	52140037	40.239M4	37.514
7)	delta-BHC	3.013	3.674	92150117	87883899	32.902	27.676M4
8)	Heptachlor	3.186	3.739	90322033	85680944	37.836	30.602M4
9)	Aldrin	3.446	4.079	82299230	78382559	29.126M4	26.548M4
12)	Heptachlor E	4.026	4.728	92202010	87777002	39.745	34.133
13)	gamma-Chlord	4.156	4.953	90271570	86553750	36.354	34.012
14)	alpha-Chlord	4.296	5.116	88237211	86475446	35.376M4	33.556
15)	4,4'-DDE	4.403	5.308	89632706	84719096	33.234	30.351
16)	Endosulfan I	4.437	5.175	87688002	83943271	38.999	31.448
17)	Dieldrin	4.707	5.460	98026393	94690187	37.959	35.110
18)	Endrin	4.965	5.754	95032876	88153963	37.842M4	32.881
19)	4,4'-DDD	5.080	5.873	79117426	75912657	39.125M4	35.309
20)	Endosulfan I	5.207	5.951	86455408	80823038	37.770M4	33.465M4
21)	4,4'-DDT	5.374	6.148	80435549	76269773	40.348M4	35.134
22)	Endrin Aldeh	5.626	6.244	58542234	56476575	33.905M4	30.247M4

Data Path : I:\PEST\Pest20\2024\240302a\
Data File : 20240302a-25.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 02 Mar 2024 04:07 pm
Operator : pest20:jag
Sample : WG1891324-3,42,,
Misc : wg1891472,WG1891324,ical20686
ALS Vial : 25 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Mar 02 16:41:35 2024
Quant Method : I:\PEST\Pest20\2024\240302a\pest20_2023_12_15_ugL_ICAL20686.m
Quant Title : pest
QLast Update : Sat Mar 02 08:11:36 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest20\2024\240302a\20240302a-03.D
Sub List : LCS_MS - spk only

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
23) Methoxychlor	5.865	6.708	49956280	42753894	53.187	40.991
25) Endosulfan S	6.022	6.473	80582495	74132127	36.254	31.981
26) Endrin Keton	6.250	6.886	95515847	91117508	40.700	36.386
Sum chlordane-1			0	0	N.D.	N.D.
Average chlordane-1					0.000	0.000
Sum toxaphene-1			0	0	N.D.	N.D.
Average toxaphene-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument						
Sum toxaphene-1			0	0	N.D.	N.D.
Average toxaphene-1					0.000	0.000

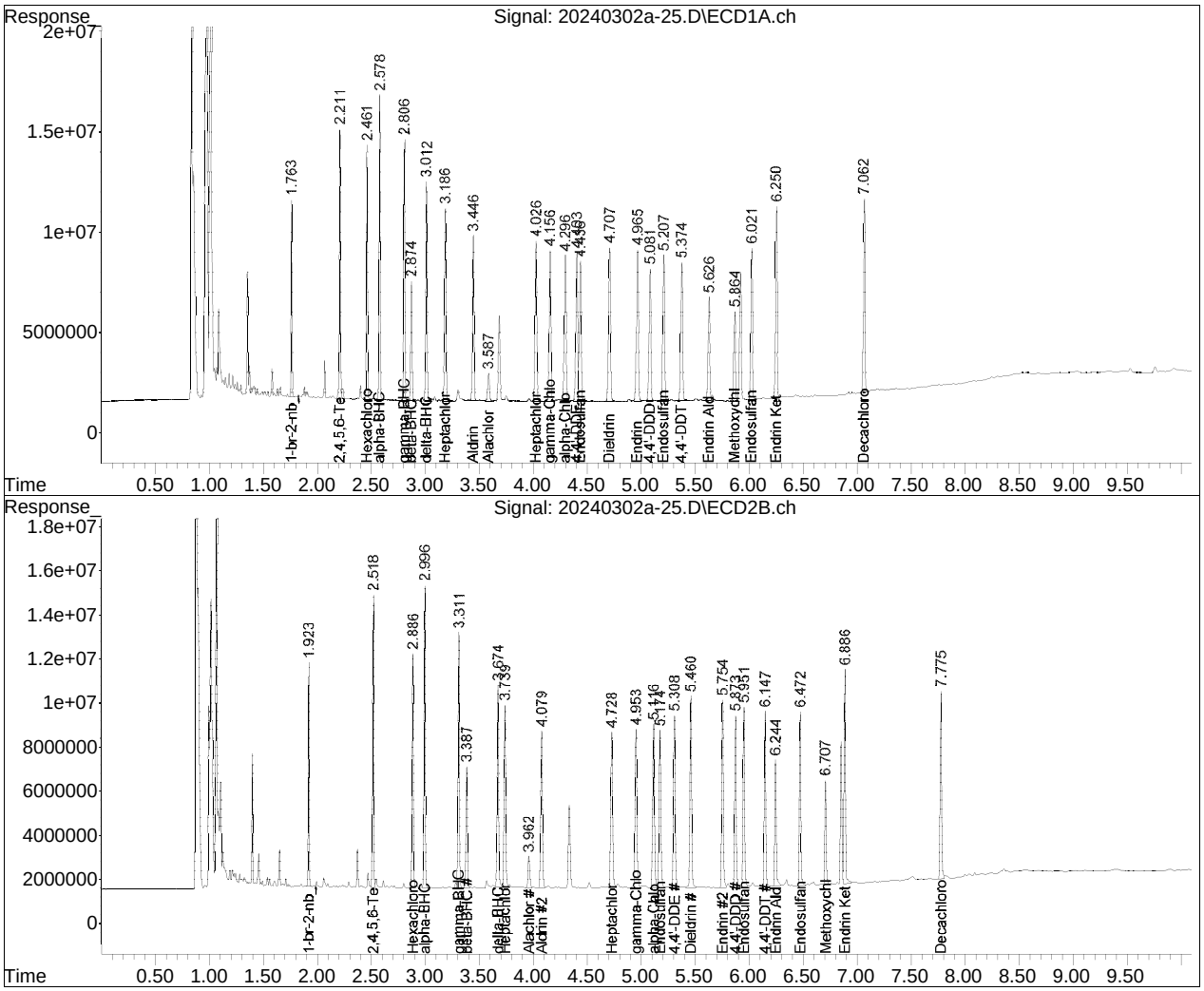
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : LCS_MS - spk only0\2024\240302a\20240302a-03.D••

Data Path : I:\PEST\Pest20\2024\240302a\
Data File : 20240302a-25.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 02 Mar 2024 04:07 pm
Operator : pest20:jag
Sample : WG1891324-3,42,,
Misc : wg1891472,WG1891324,ical20686
ALS Vial : 25 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Mar 02 16:41:35 2024
Quant Method : I:\PEST\Pest20\2024\240302a\pest20_2023_12_15_ugL_ICAL20686.m
Quant Title : pest
QLast Update : Sat Mar 02 08:11:36 2024
Response via : Initial Calibration
Integrator: ChemStation

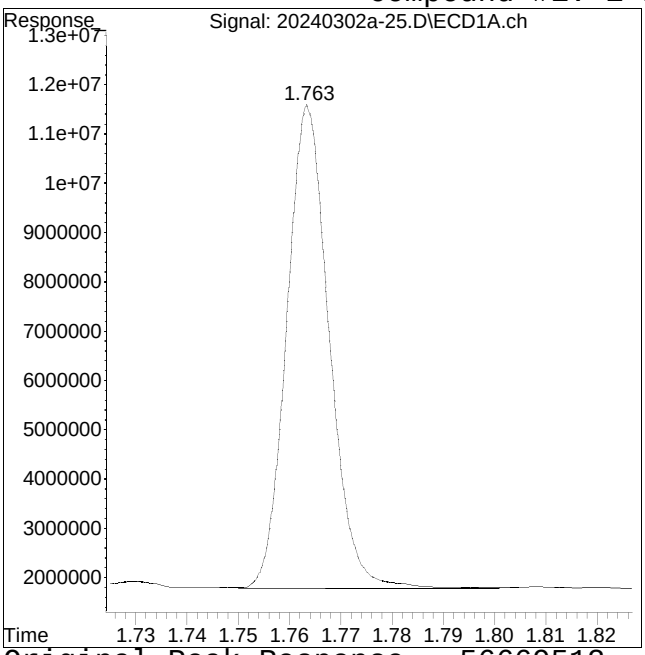
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

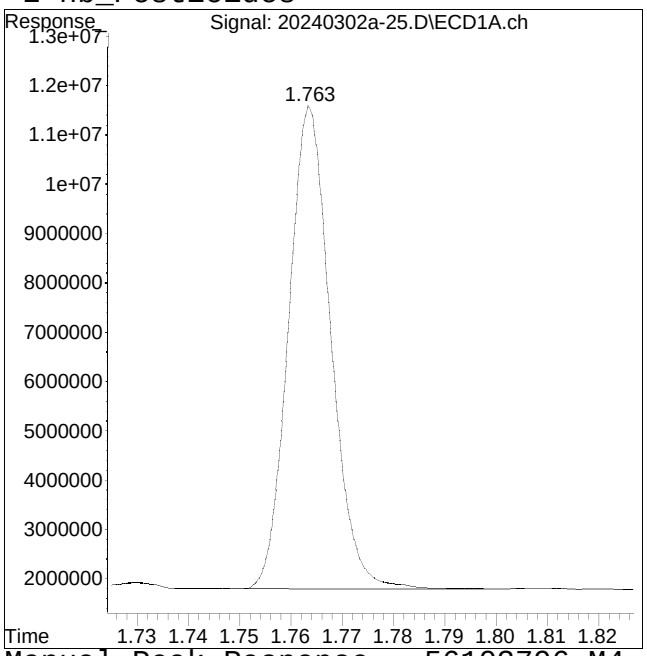


Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240302QMethod : pest20_2023_12_15_ugL_IC
Data File : 20240302a-25.D Operator : pest20:jag
Date Inj'd : 3/2/2024 4:07 pm Instrument : PEST 20
Sample : WG1891324-3,42,, Quant Date : 3/2/2024 4:32 pm

Compound #1: 1-br-2-nb_Pesticides



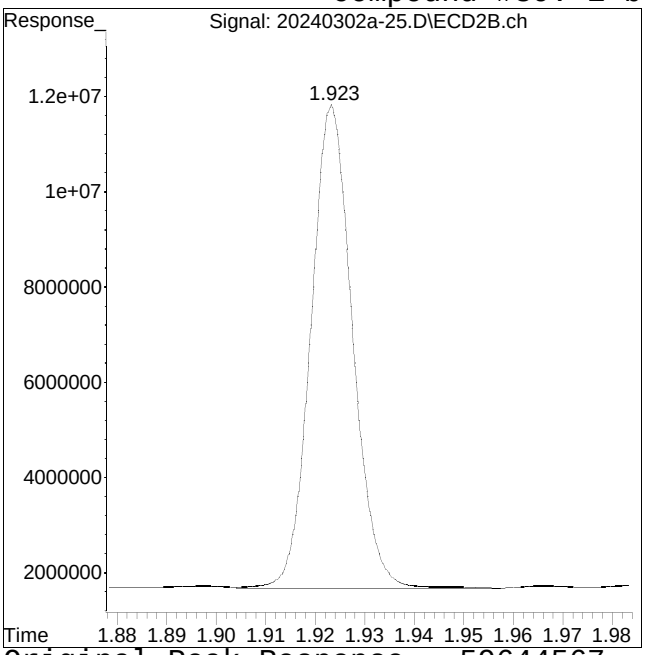


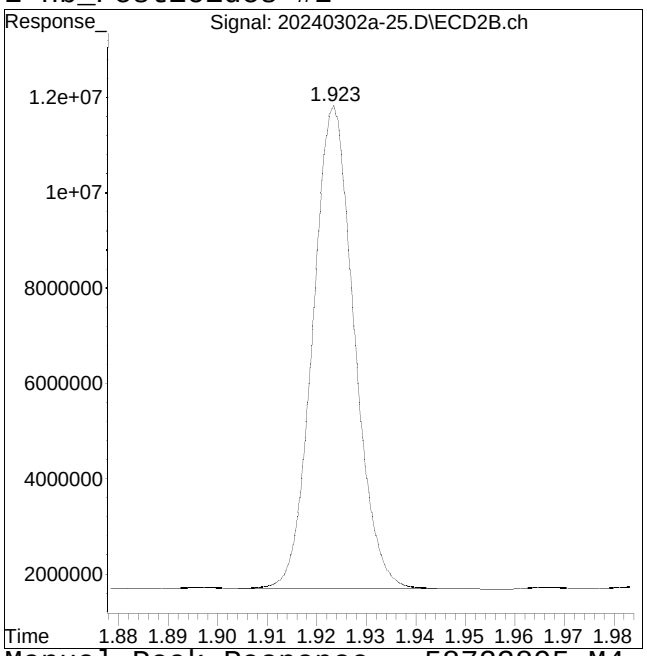
Original Peak Response = 56669512 Manual Peak Response = 56103796 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240302QMethod : pest20_2023_12_15_ugL_IC
Data File : 20240302a-25.D Operator : pest20:jag
Date Inj'd : 3/2/2024 4:07 pm Instrument : PEST 20
Sample : WG1891324-3,42,, Quant Date : 3/2/2024 4:32 pm

Compound #39: 1-br-2-nb_Pesticides #2



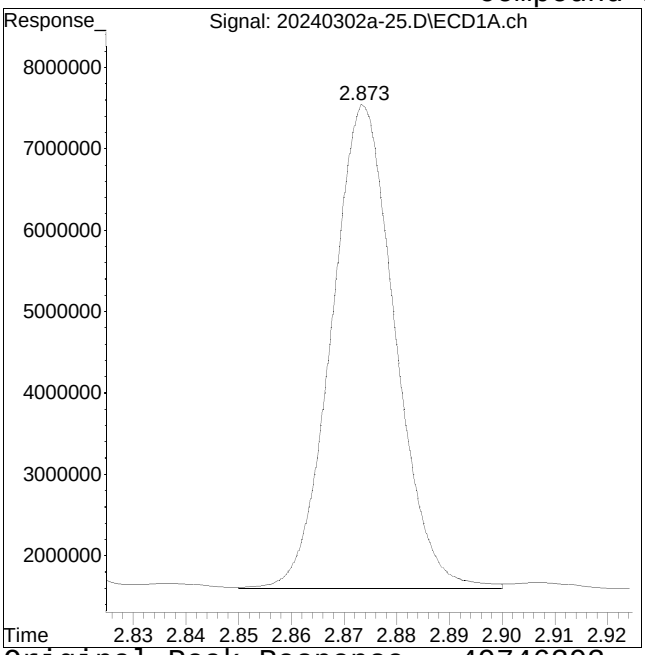


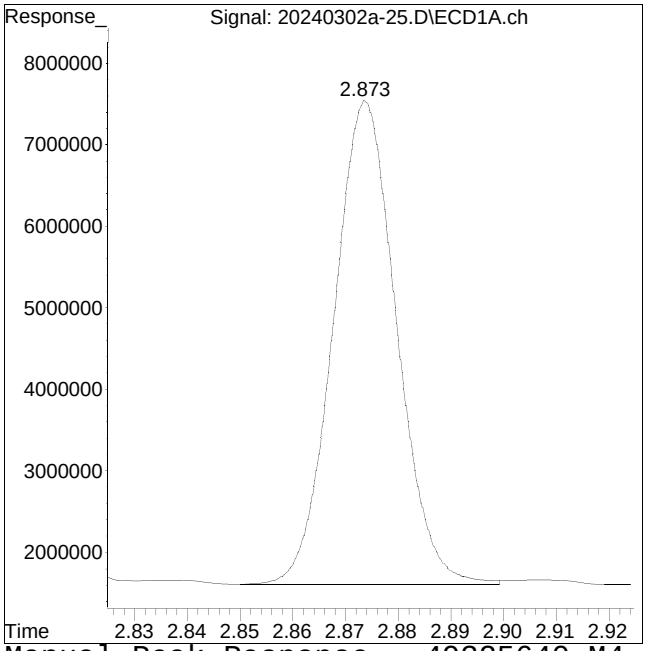
Original Peak Response = 59644567 Manual Peak Response = 58723895 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240302QMethod : pest20_2023_12_15_ugL_IC
Data File : 20240302a-25.D Operator : pest20:jag
Date Inj'd : 3/2/2024 4:07 pm Instrument : PEST 20
Sample : WG1891324-3,42,, Quant Date : 3/2/2024 4:32 pm

Compound #6: beta-BHC



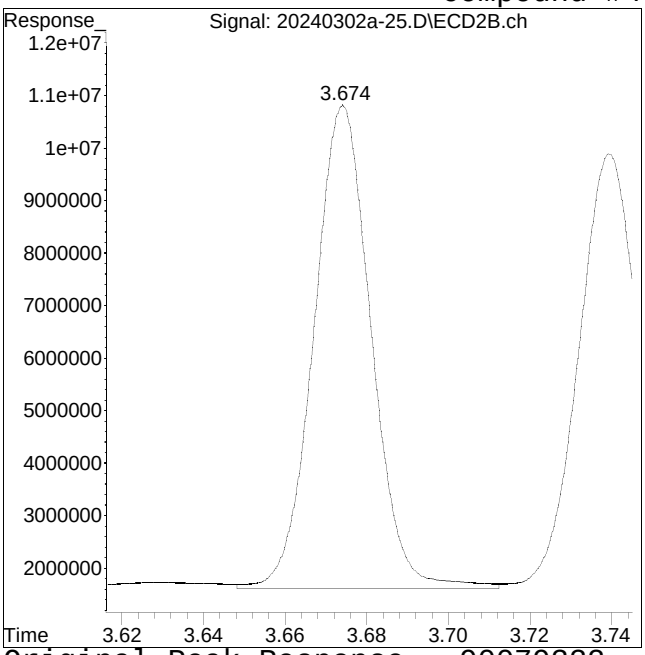


Original Peak Response = 49746393 Manual Peak Response = 49325640 M4
M4 = Poor automated baseline construction.

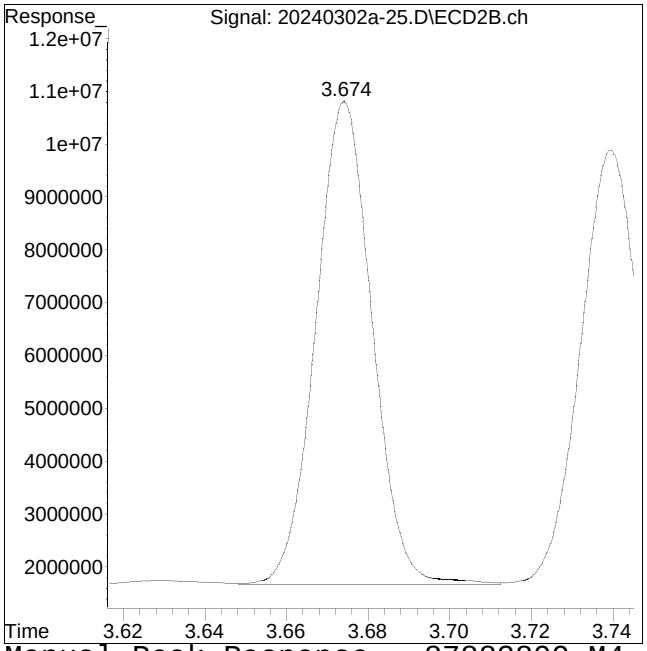
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240302QMethod : pest20_2023_12_15_ugL_IC
Data File : 20240302a-25.D Operator : pest20:jag
Date Inj'd : 3/2/2024 4:07 pm Instrument : PEST 20
Sample : WG1891324-3,42,, Quant Date : 3/2/2024 4:32 pm

Compound #45: delta-BHC #2



Original Peak Response = 90079332



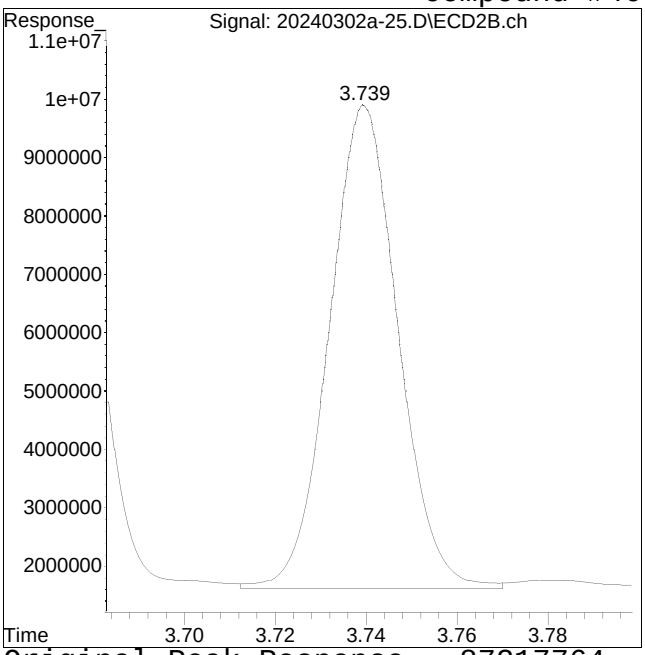
Manual Peak Response = 87883899 M4

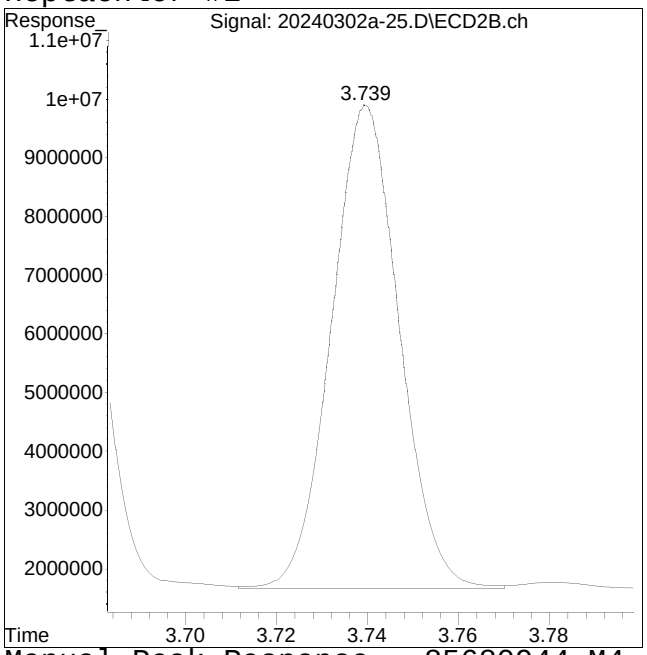
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240302QMethod : pest20_2023_12_15_ugL_IC
Data File : 20240302a-25.D Operator : pest20:jag
Date Inj'd : 3/2/2024 4:07 pm Instrument : PEST 20
Sample : WG1891324-3,42,, Quant Date : 3/2/2024 4:32 pm

Compound #46: Heptachlor #2





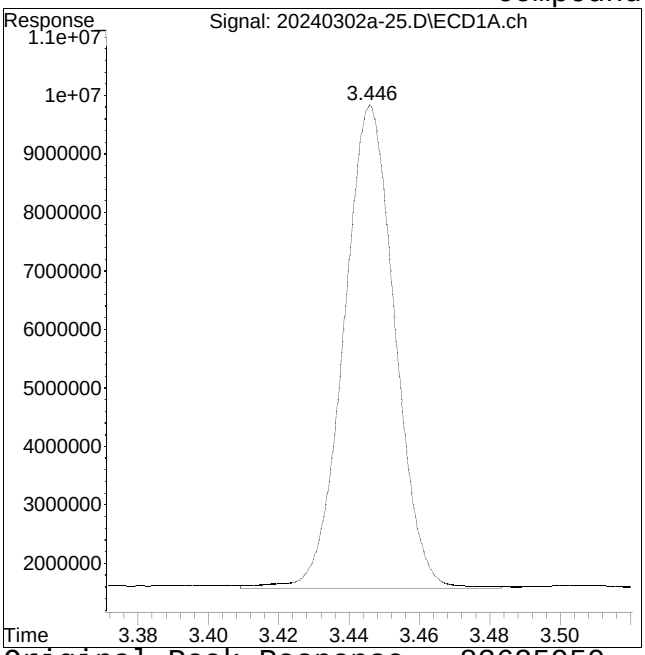
Original Peak Response = 87217764 Manual Peak Response = 85680944 M4
M4 = Poor automated baseline construction.

Manual Integration Report

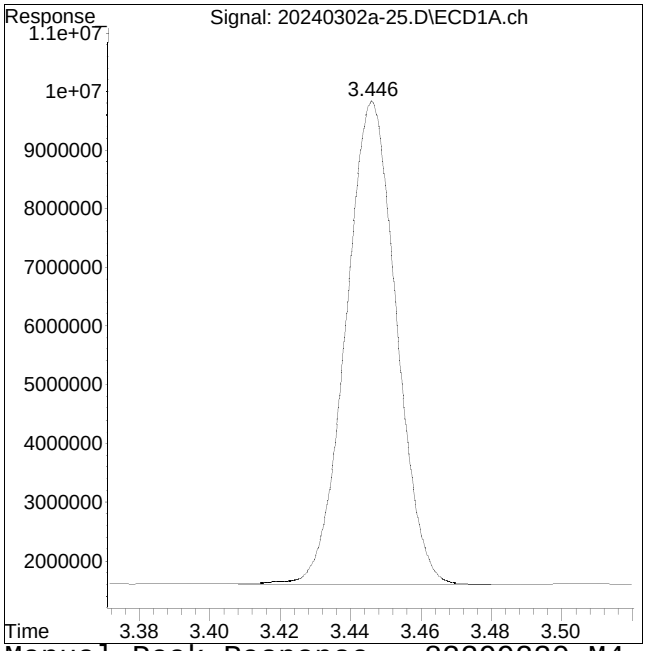
Data Path : I:\PEST\Pest20\2024\240302Q
Data File : 20240302a-25.D
Date Inj'd : 3/2/2024 4:07 pm
Sample : WG1891324-3,42,,

Method : pest20_2023_12_15_ugL_IC
Operator : pest20:jag
Instrument : PEST 20
Quant Date : 3/2/2024 4:32 pm

Compound #9: Aldrin



Original Peak Response = 83625950



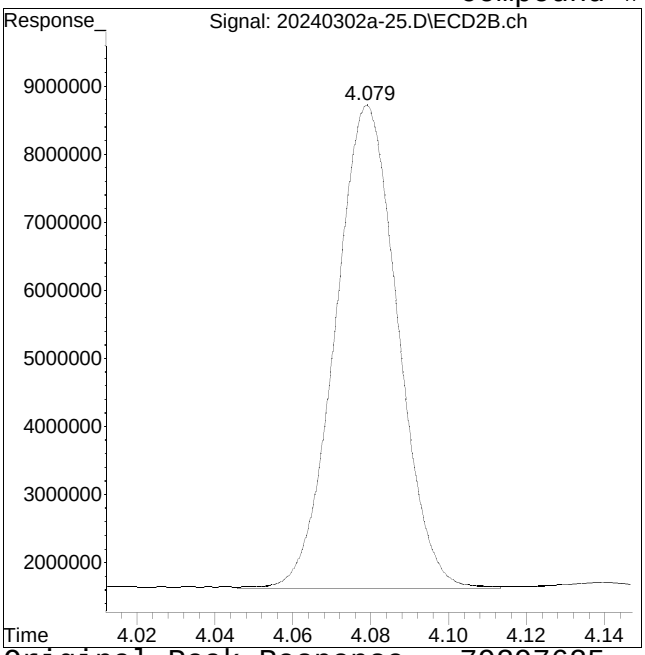
Manual Peak Response = 82299230 M4

M4 = Poor automated baseline construction.

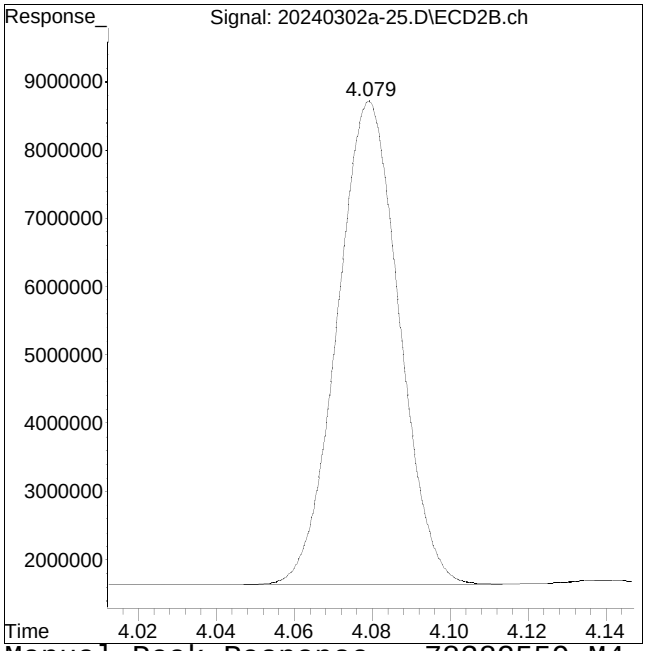
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240302QMethod : pest20_2023_12_15_ugL_IC
Data File : 20240302a-25.D Operator : pest20:jag
Date Inj'd : 3/2/2024 4:07 pm Instrument : PEST 20
Sample : WG1891324-3,42,, Quant Date : 3/2/2024 4:32 pm

Compound #47: Aldrin #2



Original Peak Response = 79297625



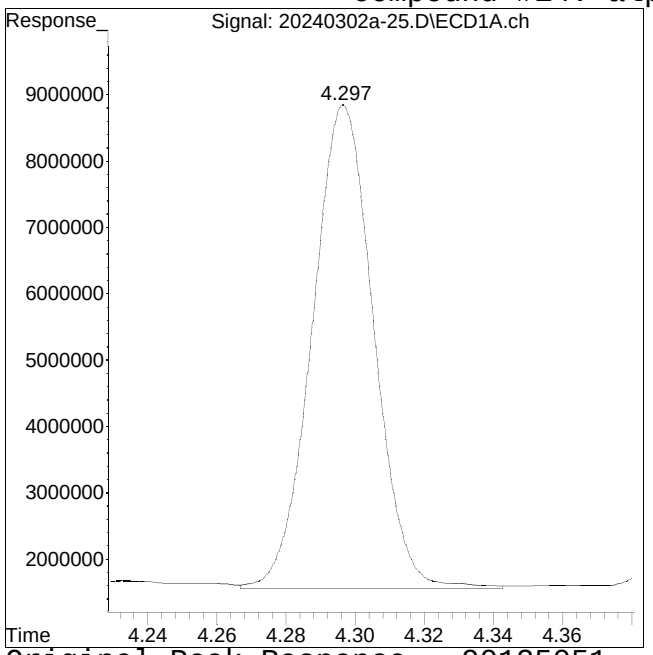
Manual Peak Response = 78382559 M4

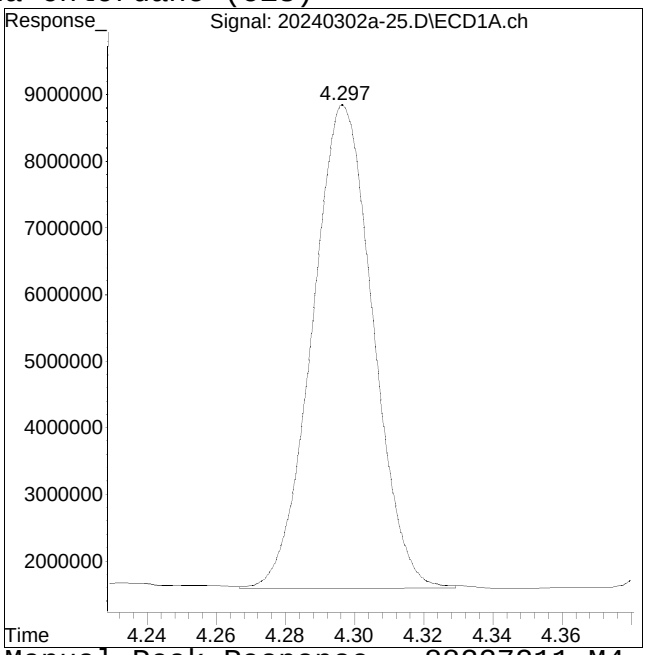
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240302QMethod : pest20_2023_12_15_ugL_IC
Data File : 20240302a-25.D Operator : pest20:jag
Date Inj'd : 3/2/2024 4:07 pm Instrument : PEST 20
Sample : WG1891324-3,42,, Quant Date : 3/2/2024 4:32 pm

Compound #14: alpha-Chlordane (cis)



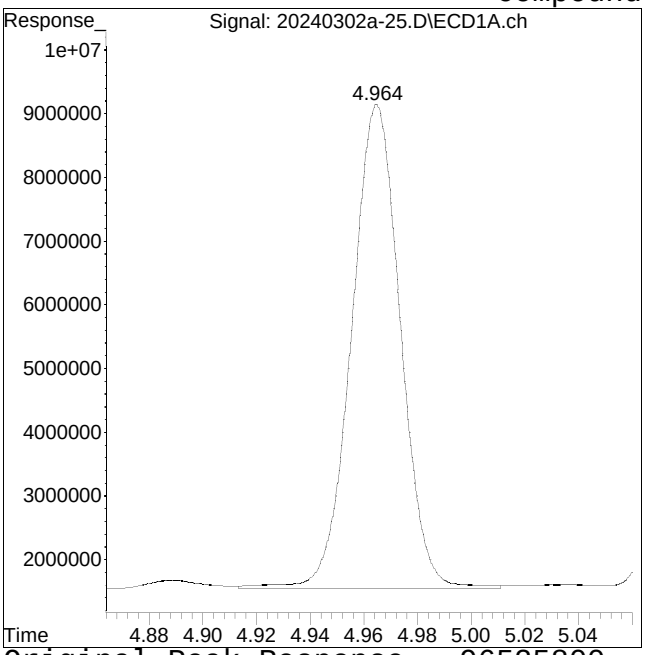


Original Peak Response = 90125051 Manual Peak Response = 88237211 M4
M4 = Poor automated baseline construction.

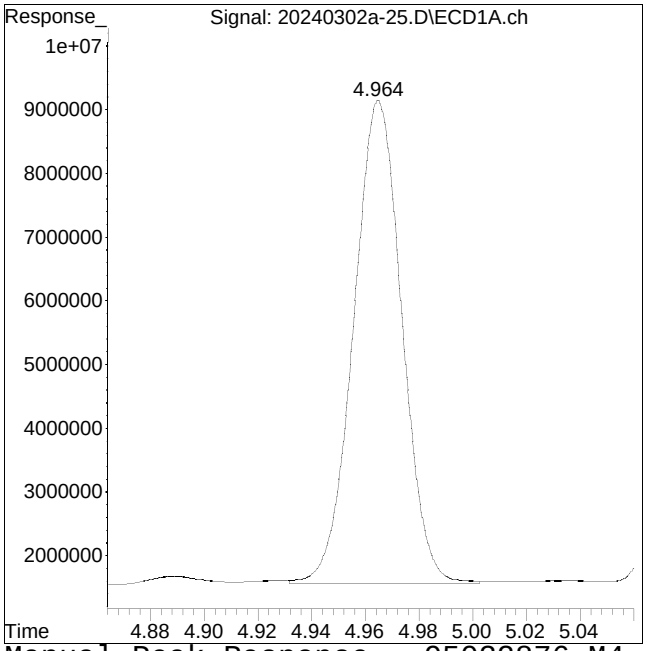
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240302QMethod : pest20_2023_12_15_ugL_IC
Data File : 20240302a-25.D Operator : pest20:jag
Date Inj'd : 3/2/2024 4:07 pm Instrument : PEST 20
Sample : WG1891324-3,42,, Quant Date : 3/2/2024 4:32 pm

Compound #18: Endrin



Original Peak Response = 96525800



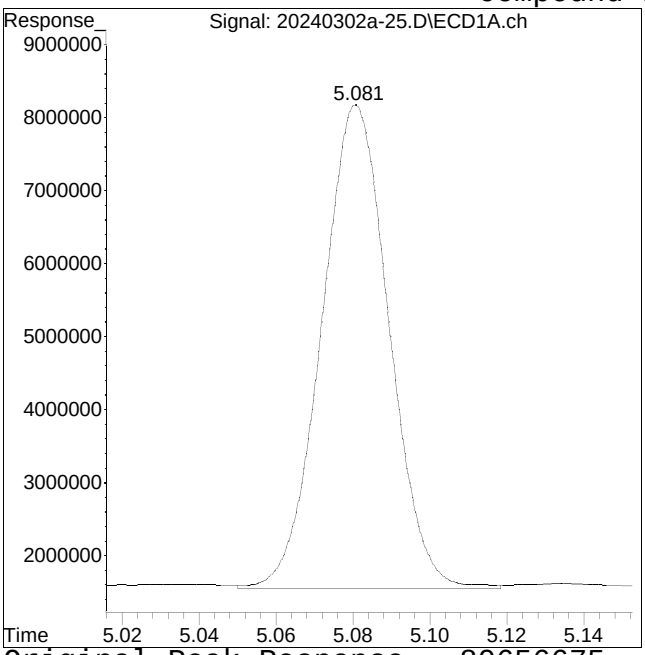
Manual Peak Response = 95032876 M4

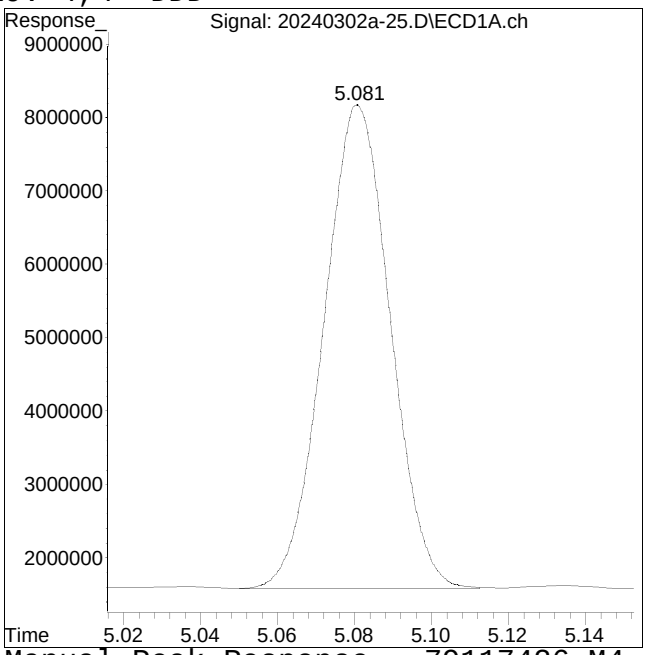
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240302QMethod : pest20_2023_12_15_ugL_IC
Data File : 20240302a-25.D Operator : pest20:jag
Date Inj'd : 3/2/2024 4:07 pm Instrument : PEST 20
Sample : WG1891324-3,42,, Quant Date : 3/2/2024 4:32 pm

Compound #19: 4,4'-DDD



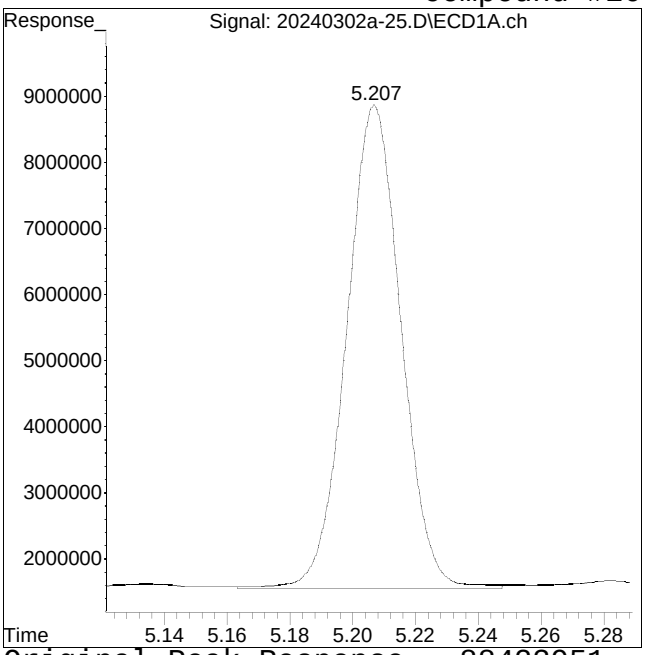


Original Peak Response = 80656675 Manual Peak Response = 79117426 M4
M4 = Poor automated baseline construction.

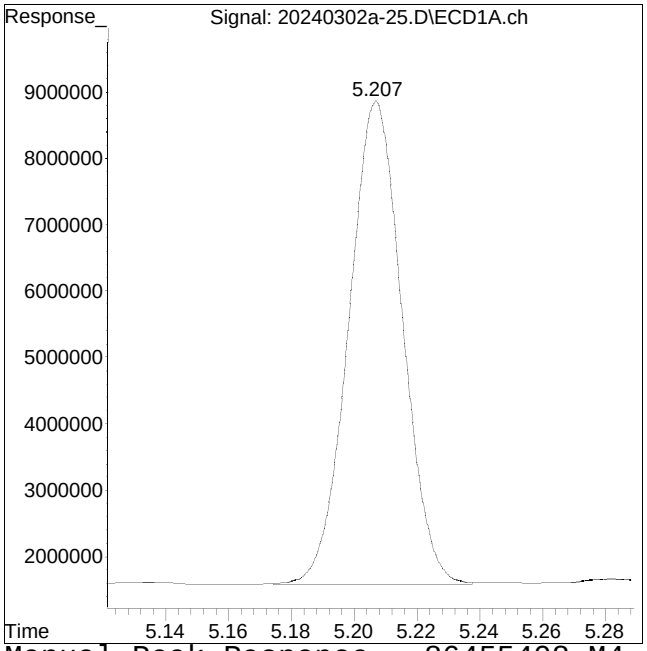
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240302QMethod : pest20_2023_12_15_ugL_IC
Data File : 20240302a-25.D Operator : pest20:jag
Date Inj'd : 3/2/2024 4:07 pm Instrument : PEST 20
Sample : WG1891324-3,42,, Quant Date : 3/2/2024 4:32 pm

Compound #20: Endosulfan II



Original Peak Response = 88423951



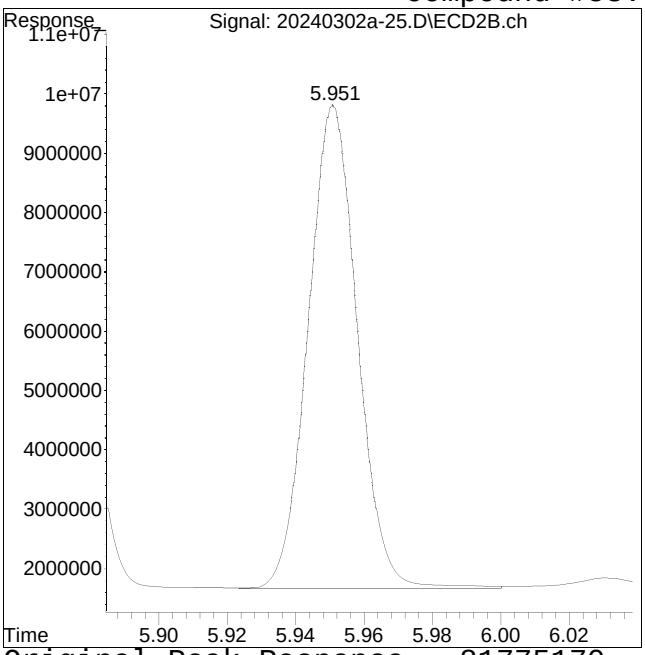
Manual Peak Response = 86455408 M4

M4 = Poor automated baseline construction.

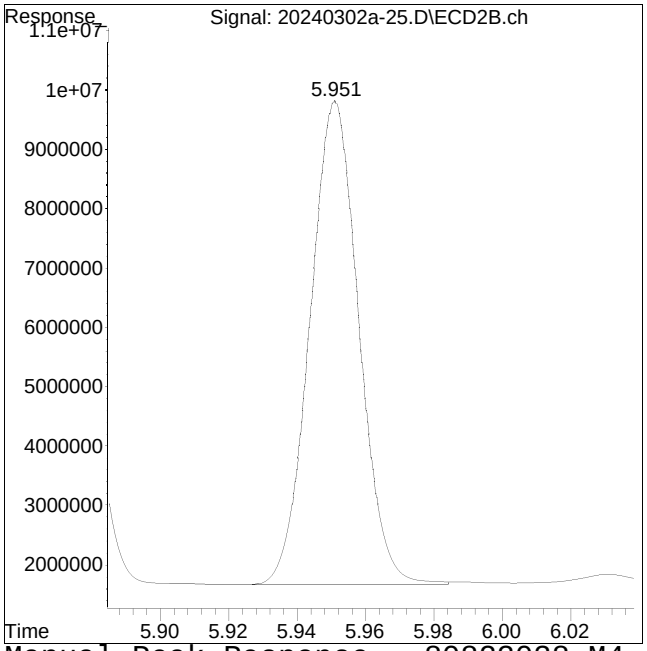
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240302QMethod : pest20_2023_12_15_ugL_IC
Data File : 20240302a-25.D Operator : pest20:jag
Date Inj'd : 3/2/2024 4:07 pm Instrument : PEST 20
Sample : WG1891324-3,42,, Quant Date : 3/2/2024 4:32 pm

Compound #58: Endosulfan II #2



Original Peak Response = 81775170



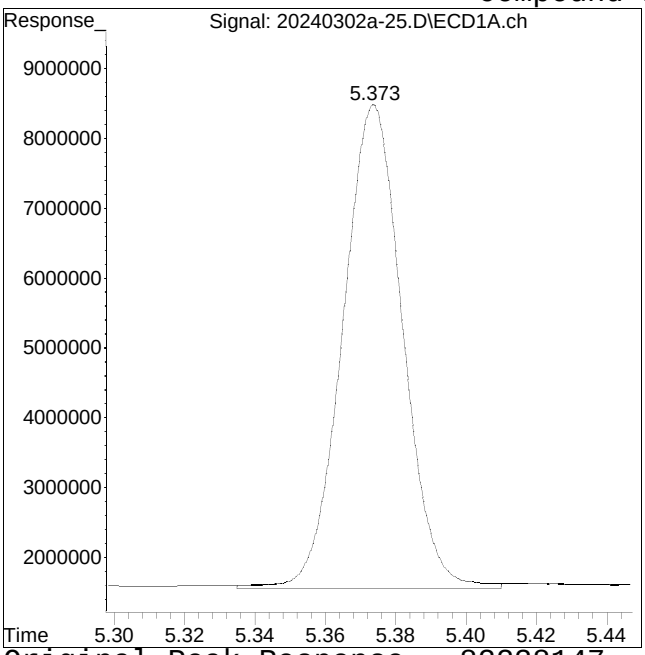
Manual Peak Response = 80823038 M4

M4 = Poor automated baseline construction.

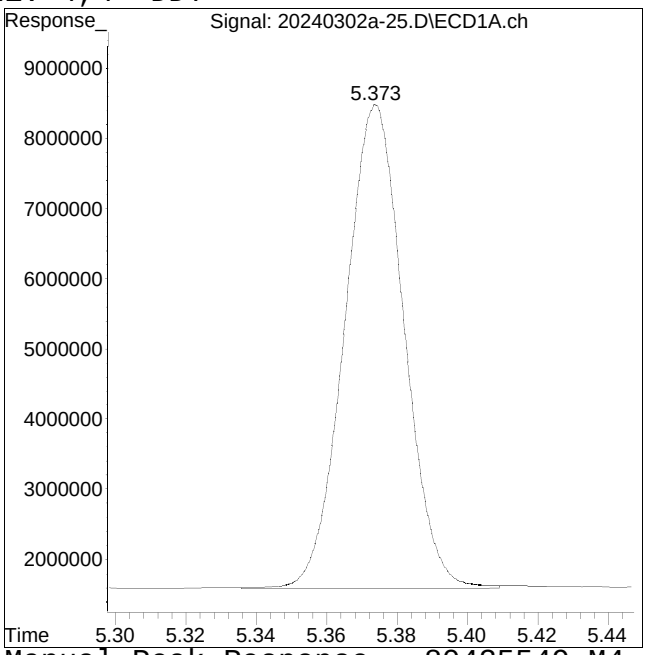
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240302QMethod : pest20_2023_12_15_ugL_IC
Data File : 20240302a-25.D Operator : pest20:jag
Date Inj'd : 3/2/2024 4:07 pm Instrument : PEST 20
Sample : WG1891324-3,42,, Quant Date : 3/2/2024 4:32 pm

Compound #21: 4,4'-DDT



Original Peak Response = 82238147



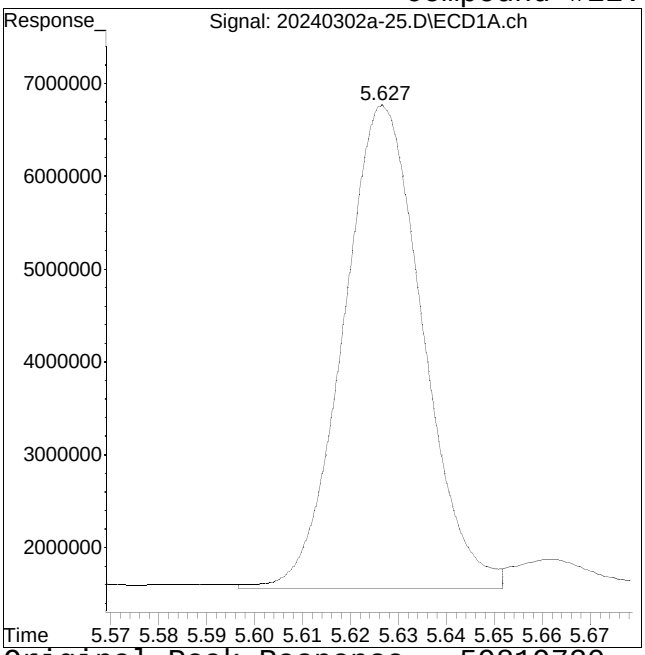
Manual Peak Response = 80435549 M4

M4 = Poor automated baseline construction.

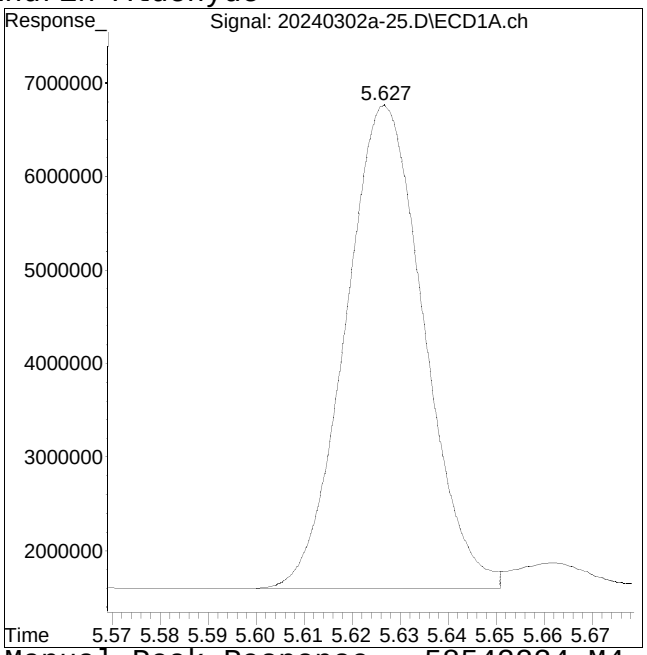
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240302QMethod : pest20_2023_12_15_ugL_IC
Data File : 20240302a-25.D Operator : pest20:jag
Date Inj'd : 3/2/2024 4:07 pm Instrument : PEST 20
Sample : WG1891324-3,42,, Quant Date : 3/2/2024 4:32 pm

Compound #22: Endrin Aldehyde



Original Peak Response = 59819730



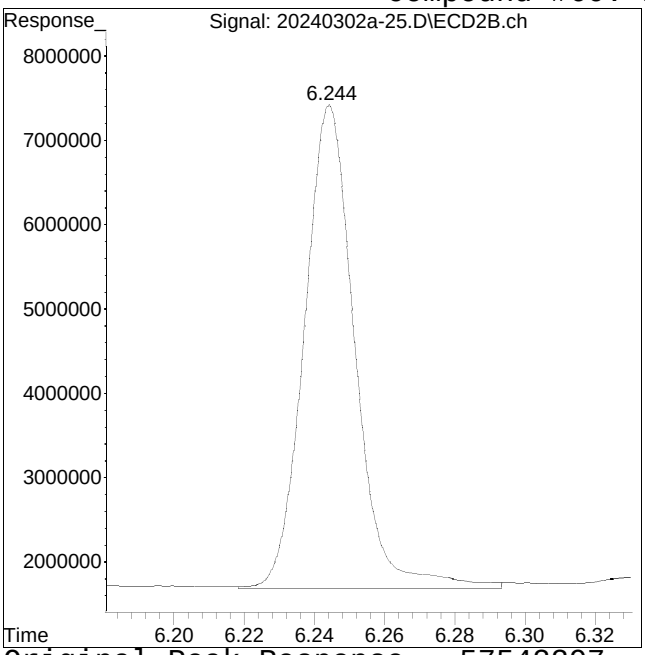
Manual Peak Response = 58542234 M4

M4 = Poor automated baseline construction.

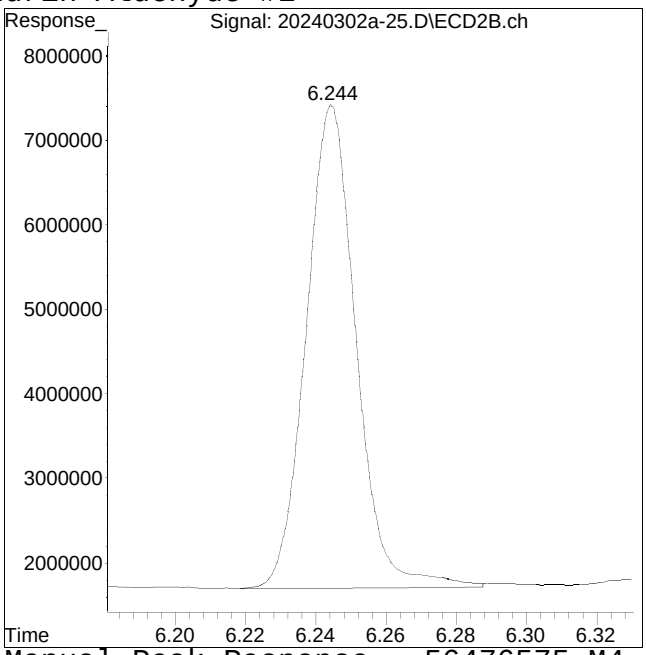
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240302QMethod : pest20_2023_12_15_ugL_IC
Data File : 20240302a-25.D Operator : pest20:jag
Date Inj'd : 3/2/2024 4:07 pm Instrument : PEST 20
Sample : WG1891324-3,42,, Quant Date : 3/2/2024 4:32 pm

Compound #60: Endrin Aldehyde #2



Original Peak Response = 57542297



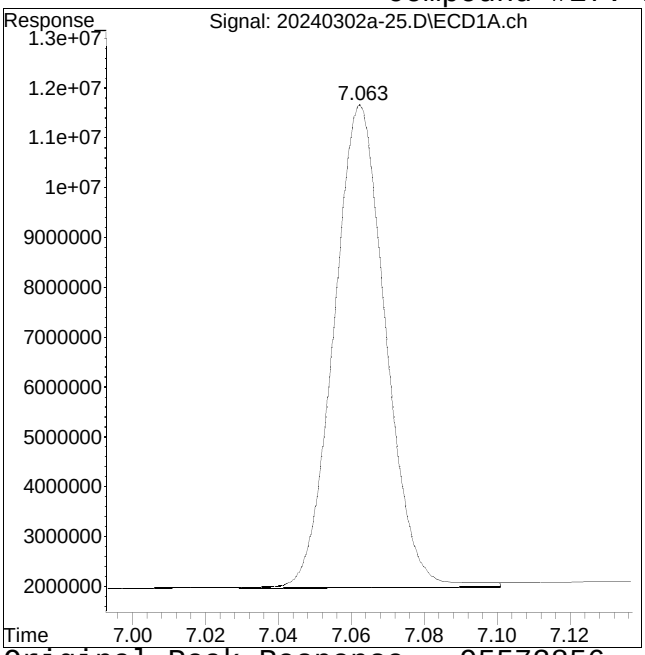
Manual Peak Response = 56476575 M4

M4 = Poor automated baseline construction.

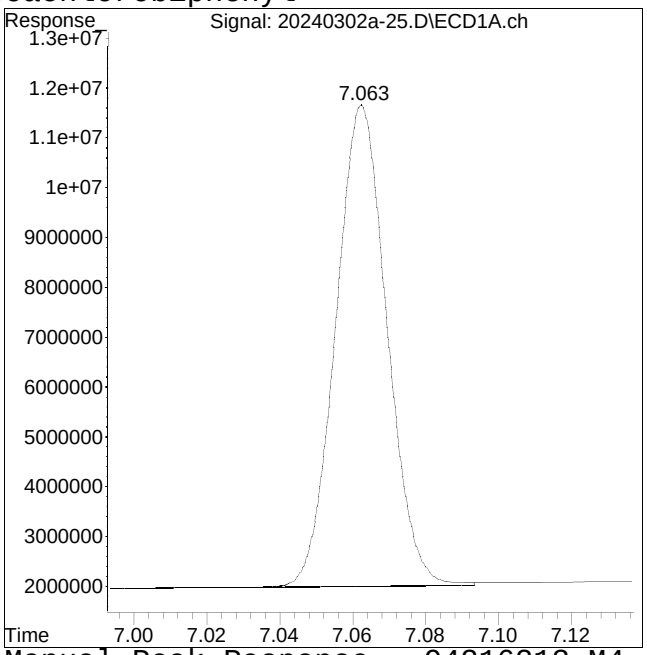
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240302QMethod : pest20_2023_12_15_ugL_IC
Data File : 20240302a-25.D Operator : pest20:jag
Date Inj'd : 3/2/2024 4:07 pm Instrument : PEST 20
Sample : WG1891324-3,42,, Quant Date : 3/2/2024 4:32 pm

Compound #27: Decachlorobiphenyl



Original Peak Response = 95573856



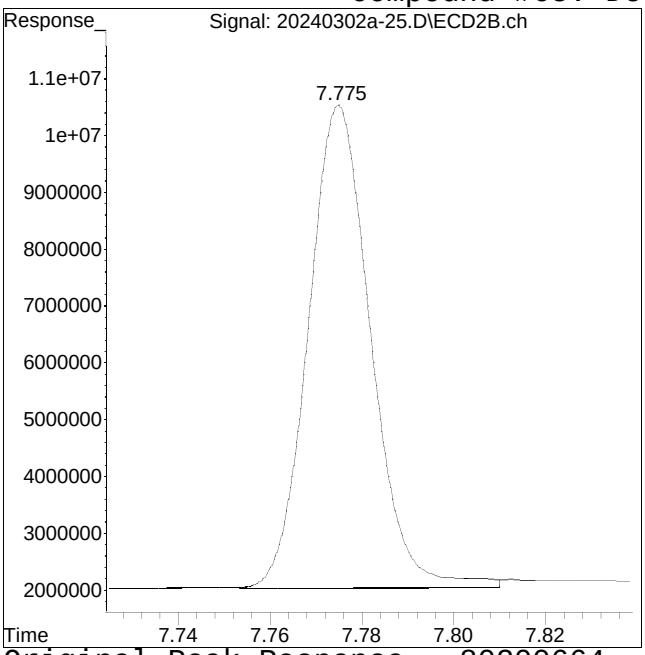
Manual Peak Response = 94216213 M4

M4 = Poor automated baseline construction.

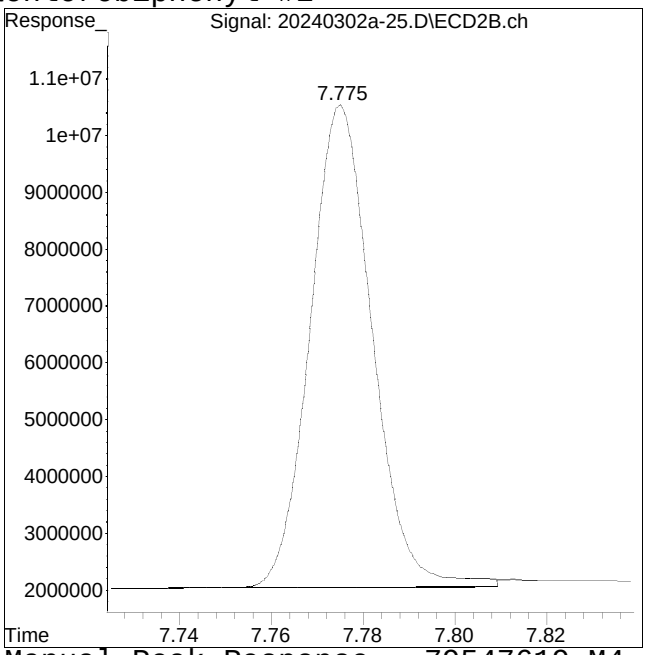
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240302QMethod : pest20_2023_12_15_ugL_IC
Data File : 20240302a-25.D Operator : pest20:jag
Date Inj'd : 3/2/2024 4:07 pm Instrument : PEST 20
Sample : WG1891324-3,42,, Quant Date : 3/2/2024 4:32 pm

Compound #65: Decachlorobiphenyl #2



Original Peak Response = 80200664



Manual Peak Response = 79547619 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240305A\
Data File : 11240305a-09.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 05 Mar 2024 9:03 am
Operator : PEST11:mmg
Sample : WG1892124-3,42,,
Misc : wg1892239,WG1892124,ical20697
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 05 11:08:10 2024
Quant Method : I:\PEST\Pest11\2024\240305A\pest11_12_19_23_ugL_ICAL20697.M
Quant Title : pest
QLast Update : Tue Mar 05 08:15:23 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest11\2024\240305A\11240305a-03.d
Sub List : LCS_MS - spk only

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards							
1) i	1-br-2-nb_Pe	1.353	1.452	125.7E6	205.7E6	25.000	25.000M3
	Standard Area 1 : #1 = 83711596				Recovery = 150.14%		
	Standard Area 1 : #2 = 125546766				Recovery = 163.83%		
System Monitoring Compounds							
2) s	2,4,5,6-Tetr	1.702	1.949	143.3E6	244.9E6	29.755M4	29.903M4
	Spiked Amount 50.000	Range 30 - 150		Recovery = 59.51%		59.81%	
27) s	Decachlorobi	6.353	7.038	206.2E6	273.9E6	45.540M3	42.935M4
	Spiked Amount 50.000	Range 30 - 150		Recovery = 91.08%		85.87%	
Target Compounds							
4) t	alpha-BHC	2.021	2.384	209.1E6	368.0E6	31.092M3	32.218M4
5) t	gamma-BHC (l	2.228	2.682	199.4E6	342.9E6	31.044M3	31.682M4
6) t	beta-BHC	2.285	2.749	92306334	157.6E6	32.189M3	34.119M4
7) t	delta-BHC	2.416	3.028	160.4E6	262.8E6	24.648M4	24.403M4
8) t	Heptachlor	2.582	3.096	196.1E6	324.7E6	29.796M3	29.094M4
9) t	Aldrin	2.830	3.427	163.6E6	291.5E6	27.410M4	28.877M4
12) t	Heptachlor E	3.385	4.062	169.5E6	295.6E6	28.146M3	31.127M4
13) t	gamma-Chlord	3.511	4.284	172.5E6	339.8E6	31.436M4	37.378M3
14) t	alpha-Chlord	3.647	4.446	161.3E6	315.7E6	25.867M4	33.136M4
15) t	4,4'-DDE	3.745	4.632	168.6E6	334.8E6	29.776M4	36.111M4
16) t	Endosulfan I	3.786	4.505	153.8E6	287.2E6	26.102M4	30.986M4
17) t	Dieldrin	4.049	4.786	167.0E6	328.1E6	28.438M4	35.387M4
18) t	Endrin	4.303	5.075	159.0E6	308.4E6	26.682M4	33.177M3
19) t	4,4'-DDD	4.410	5.189	126.7E6	269.8E6	26.982M4	36.568M3
20) t	Endosulfan I	4.538	5.268	143.9E6	277.5E6	26.150M3	33.143M3
21) t	4,4'-DDT	4.696	5.460	148.9E6	307.1E6	26.650M3	36.429M4
22) t	Endrin Aldeh	4.948	5.558	103.8E6	204.4E6	23.235	30.473M3
23) t	Methoxychlor	5.176	6.013	92286818	151.9E6	30.738M3	35.694M3

Data Path : I:\PEST\Pest11\2024\240305A\
Data File : 11240305a-09.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 05 Mar 2024 9:03 am
Operator : PEST11:mmg
Sample : WG1892124-3,42,,
Misc : wg1892239,WG1892124,ical20697
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 05 11:08:10 2024
Quant Method : I:\PEST\Pest11\2024\240305A\pest11_12_19_23_ugL_ICAL20697.M
Quant Title : pest
QLast Update : Tue Mar 05 08:15:23 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest11\2024\240305A\11240305a-03.d
Sub List : LCS_MS - spk only

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
25) t Endosulfan S	5.335	5.783	150.6E6	257.7E6	27.838M3	31.520M3
26) t Endrin Keton	5.560	6.190	204.1E6	310.1E6	33.416M4	35.277M3
Sum chlordane-1			0	0	N.D.	N.D.
Average chlordane-1					0.000	0.000
Sum toxaphene-2			0	0	N.D.	N.D.
Average toxaphene-2					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument						
Sum toxaphene-2			0	0	N.D.	N.D.
Average toxaphene-2					0.000	0.000

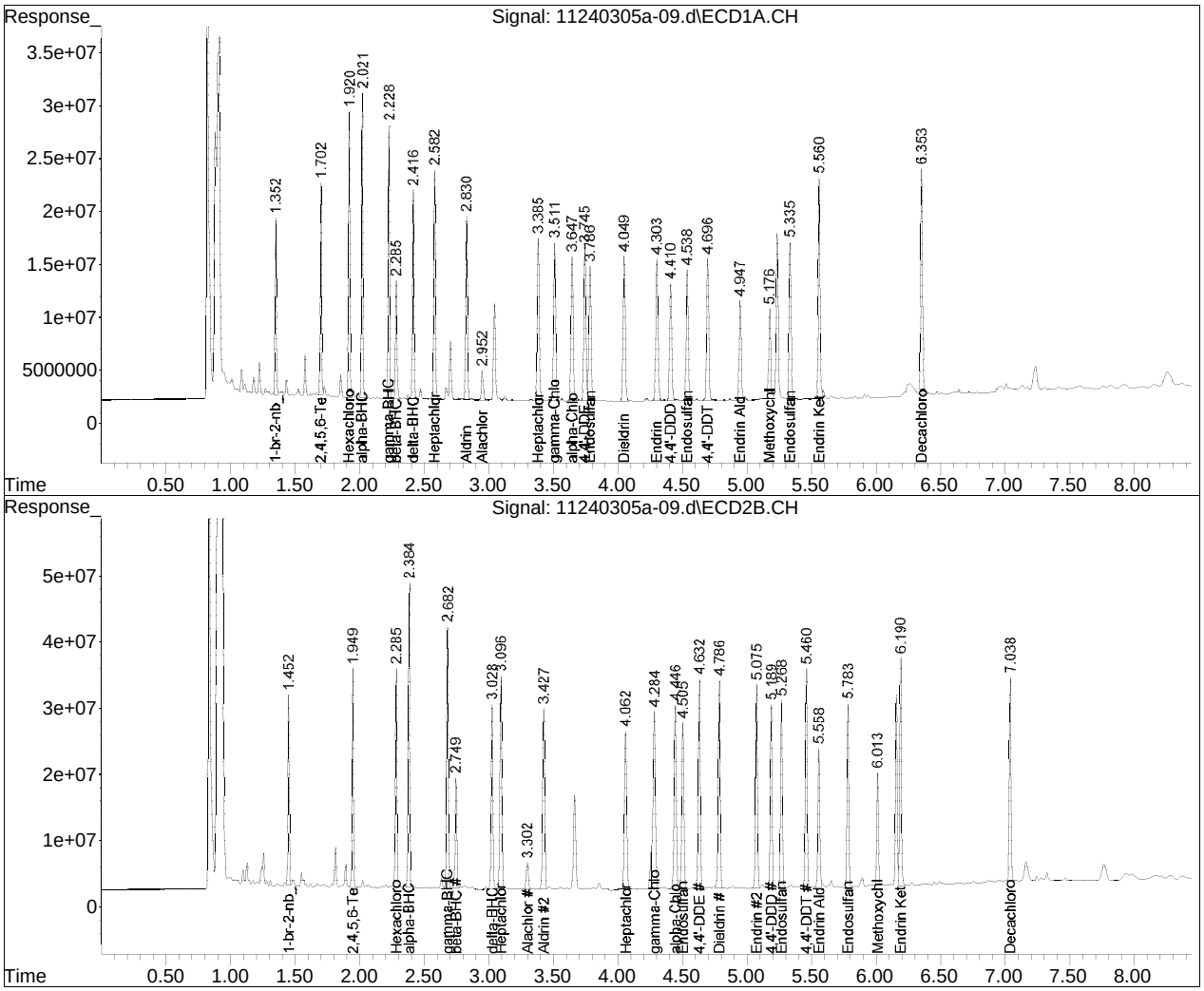
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : LCS_MS - spk only1\2024\240305A\11240305a-03.d••

Data Path : I:\PEST\Pest11\2024\240305A\
Data File : 11240305a-09.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 05 Mar 2024 9:03 am
Operator : PEST11:mmg
Sample : WG1892124-3,42,,
Misc : wg1892239,WG1892124,ical20697
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 05 11:08:10 2024
Quant Method : I:\PEST\Pest11\2024\240305A\pest11_12_19_23_ugL_ICAL20697.M
Quant Title : pest
QLast Update : Tue Mar 05 08:15:23 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

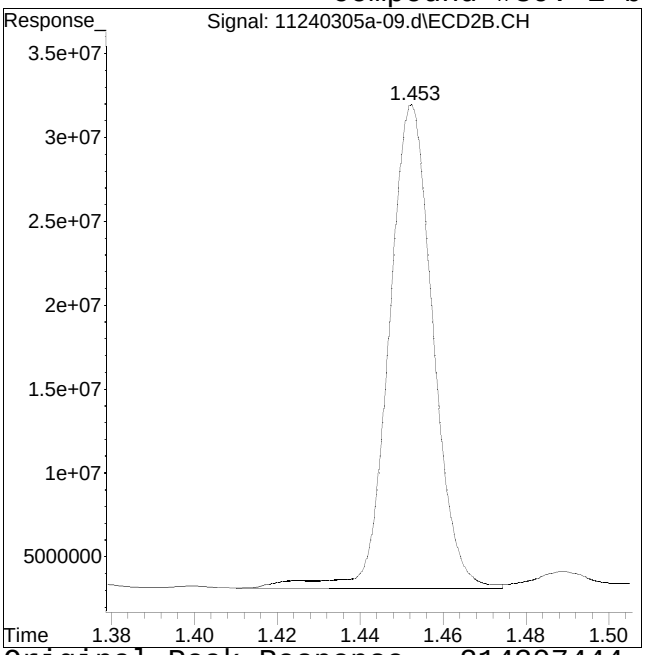
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

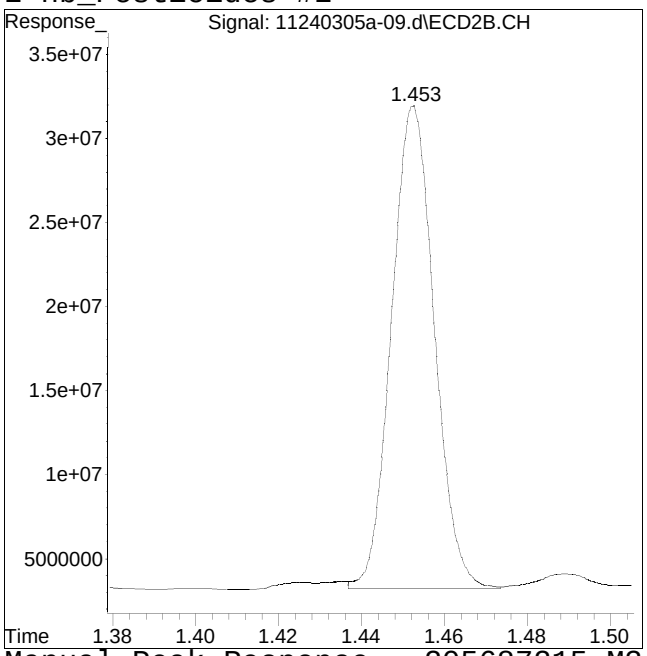


Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-09.d Operator : PEST11:mmg
Date Inj'd : 3/5/2024 9:03 am Instrument : Pest 11
Sample : WG1892124-3,42,, Quant Date : 3/5/2024 10:54 am

Compound #39: 1-br-2-nb_Pesticides #2



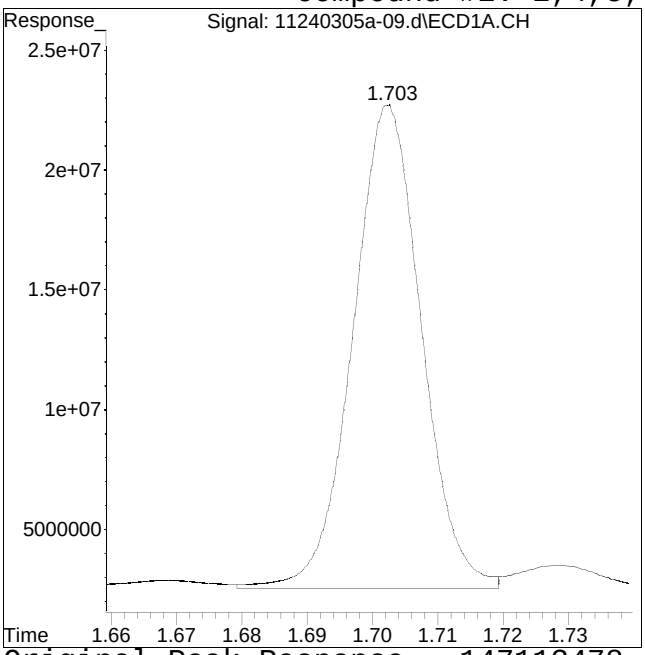


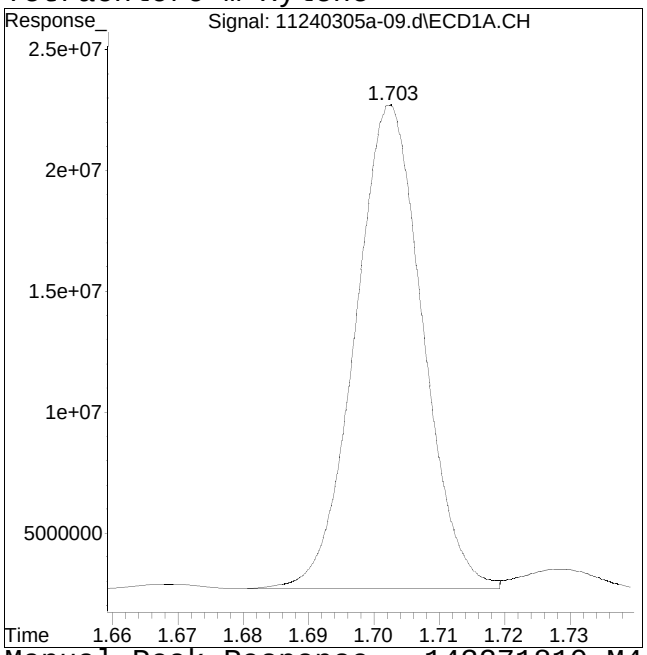
Original Peak Response = 214307444 Manual Peak Response = 205687215 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-09.d Operator : PEST11:mmg
Date Inj'd : 3/5/2024 9:03 am Instrument : Pest 11
Sample : WG1892124-3,42,, Quant Date : 3/5/2024 10:54 am

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



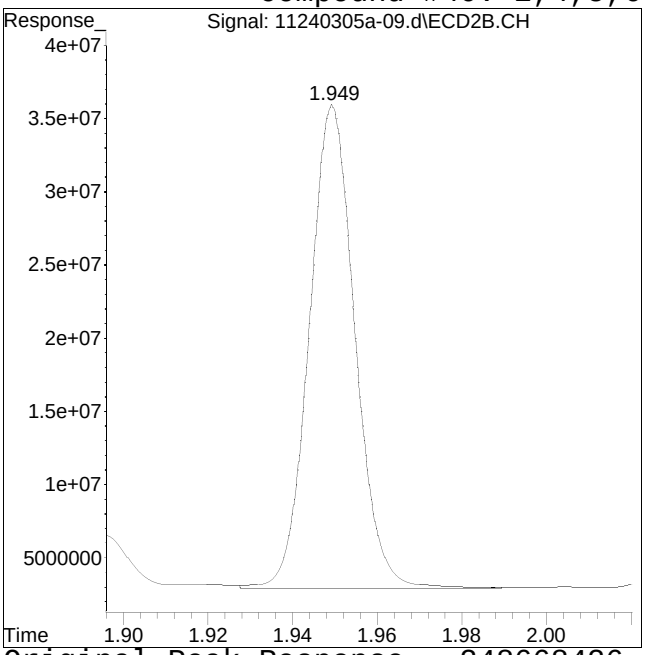


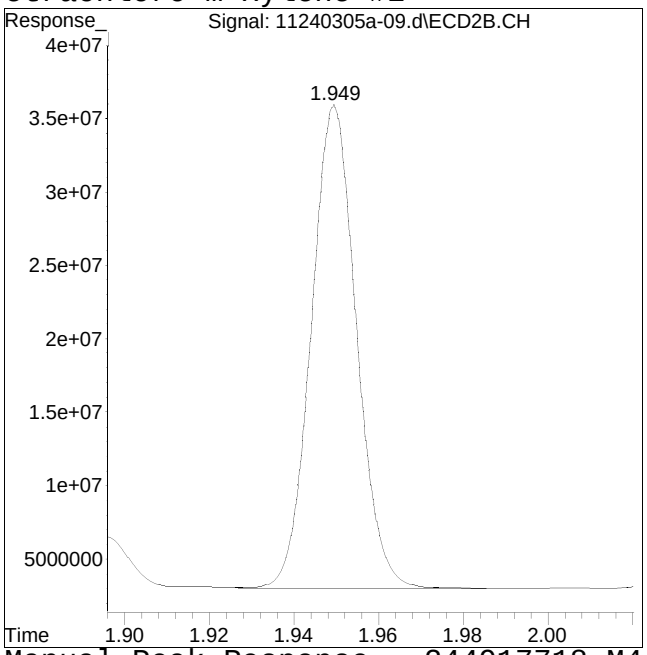
Original Peak Response = 147113478 Manual Peak Response = 143271810 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-09.d Operator : PEST11:mmg
Date Inj'd : 3/5/2024 9:03 am Instrument : Pest 11
Sample : WG1892124-3,42,, Quant Date : 3/5/2024 10:54 am

Compound #40: 2,4,5,6-Tetrachloro-m-xylene #2



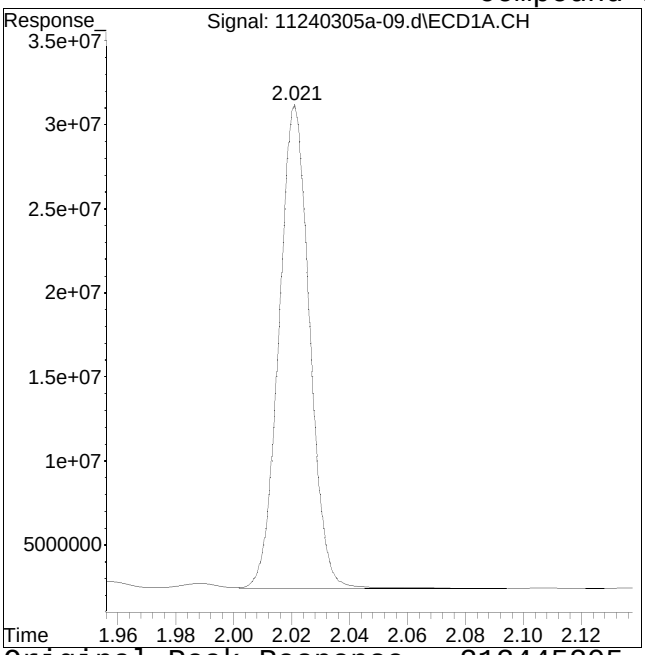


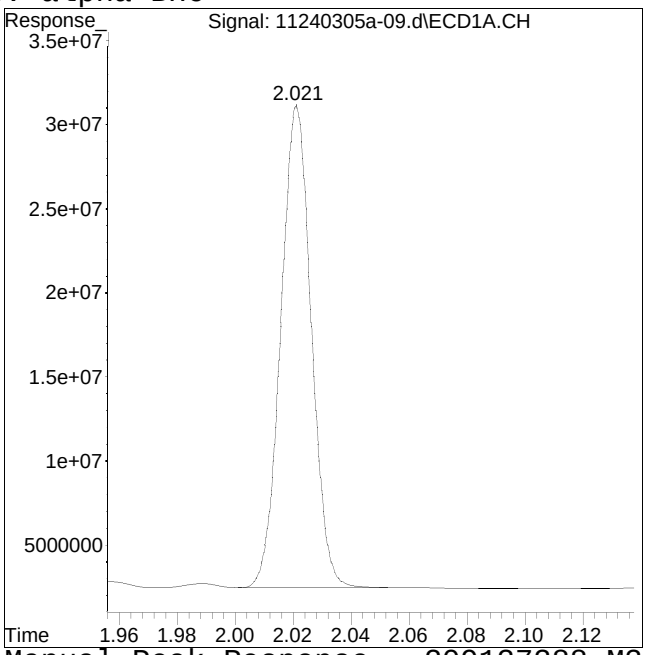
Original Peak Response = 248668426 Manual Peak Response = 244917718 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-09.d Operator : PEST11:mmg
Date Inj'd : 3/5/2024 9:03 am Instrument : Pest 11
Sample : WG1892124-3,42,, Quant Date : 3/5/2024 10:54 am

Compound #4: alpha-BHC



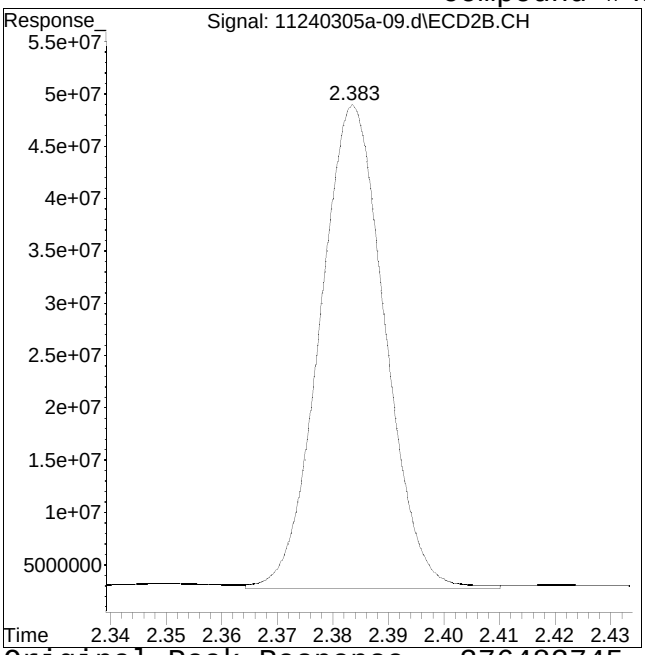


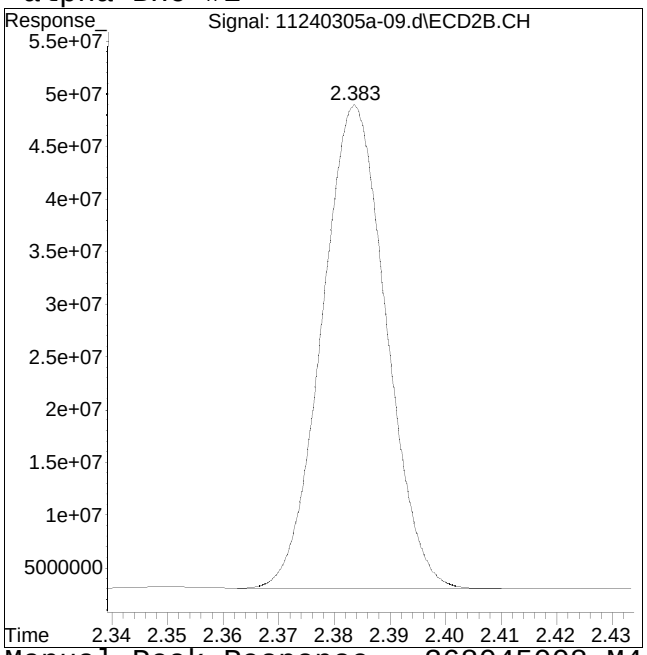
Original Peak Response = 212445205 Manual Peak Response = 209137388 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-09.d Operator : PEST11:mmg
Date Inj'd : 3/5/2024 9:03 am Instrument : Pest 11
Sample : WG1892124-3,42,, Quant Date : 3/5/2024 10:54 am

Compound #42: alpha-BHC #2



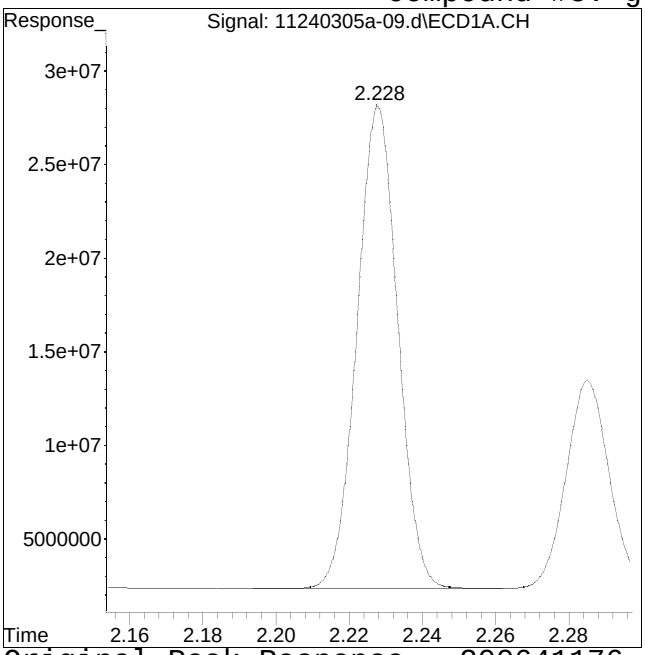


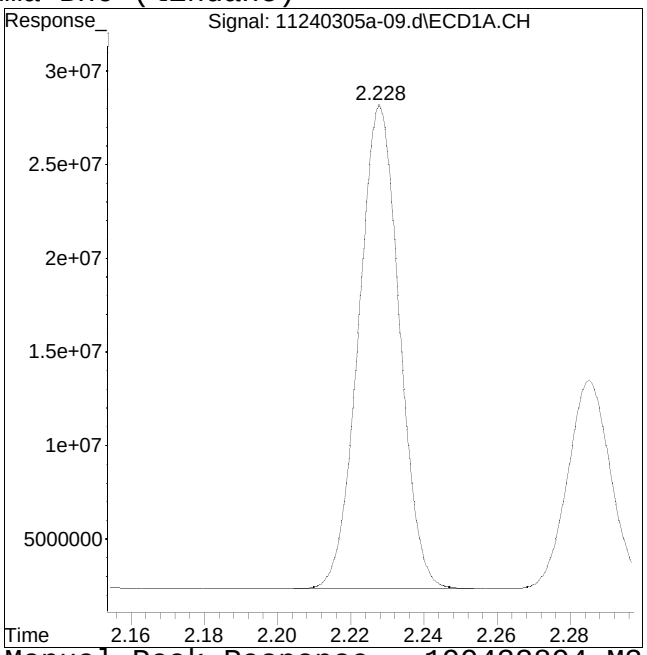
Original Peak Response = 376483745 Manual Peak Response = 368045008 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-09.d Operator : PEST11:mmg
Date Inj'd : 3/5/2024 9:03 am Instrument : Pest 11
Sample : WG1892124-3,42,, Quant Date : 3/5/2024 10:54 am

Compound #5: gamma-BHC (lindane)



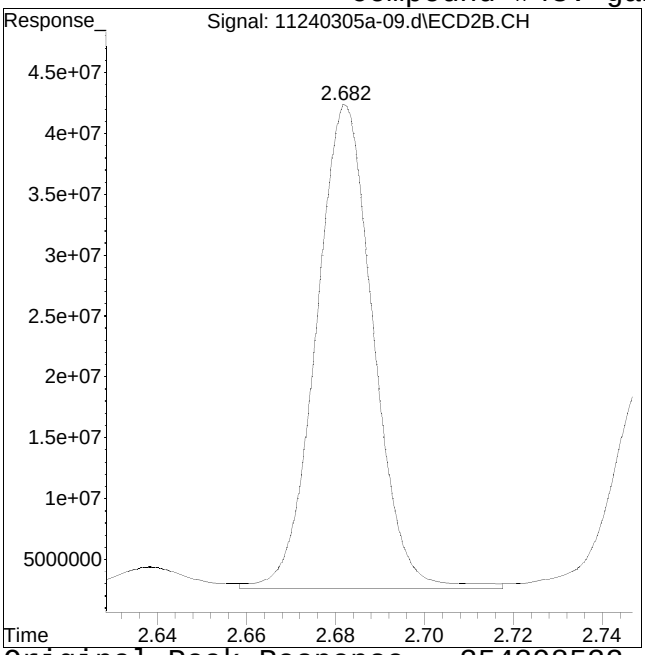


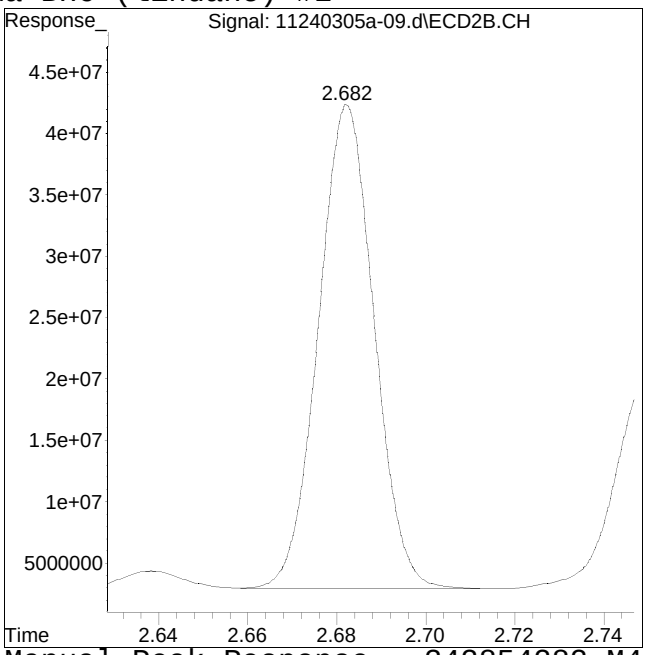
Original Peak Response = 200641176 Manual Peak Response = 199433894 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-09.d Operator : PEST11:mmg
Date Inj'd : 3/5/2024 9:03 am Instrument : Pest 11
Sample : WG1892124-3,42,, Quant Date : 3/5/2024 10:54 am

Compound #43: gamma-BHC (lindane) #2



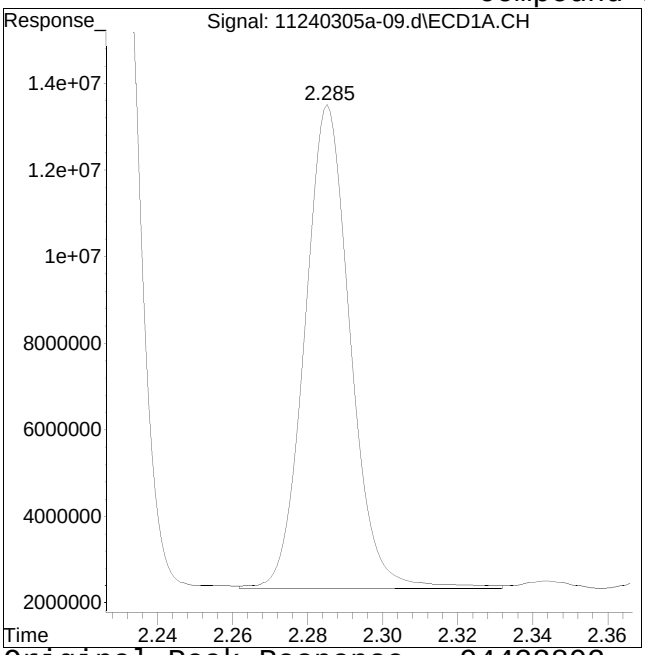


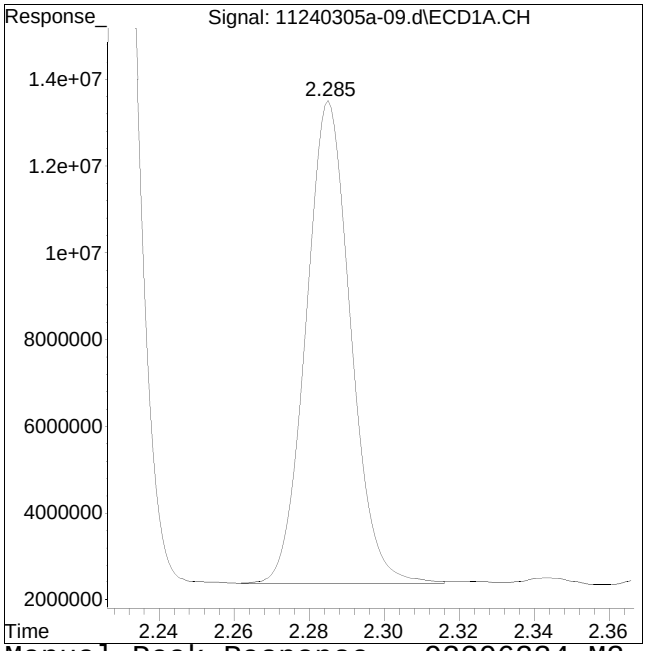
Original Peak Response = 354398532 Manual Peak Response = 342854282 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-09.d Operator : PEST11:mmg
Date Inj'd : 3/5/2024 9:03 am Instrument : Pest 11
Sample : WG1892124-3,42,, Quant Date : 3/5/2024 10:54 am

Compound #6: beta-BHC



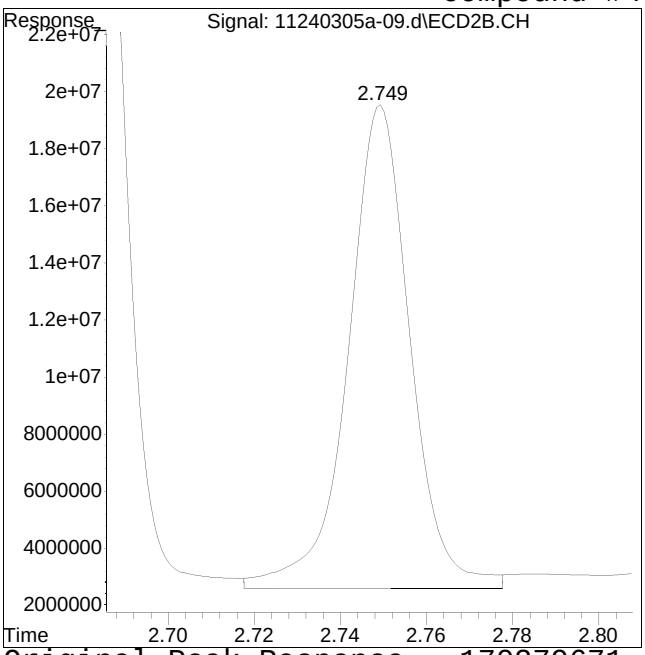


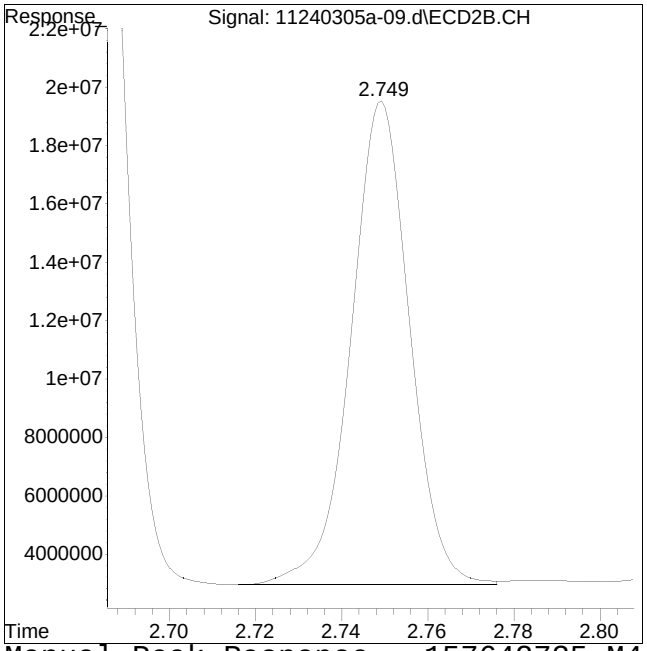
Original Peak Response = 94422892 Manual Peak Response = 92306334 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-09.d Operator : PEST11:mmg
Date Inj'd : 3/5/2024 9:03 am Instrument : Pest 11
Sample : WG1892124-3,42,, Quant Date : 3/5/2024 10:54 am

Compound #44: beta-BHC #2



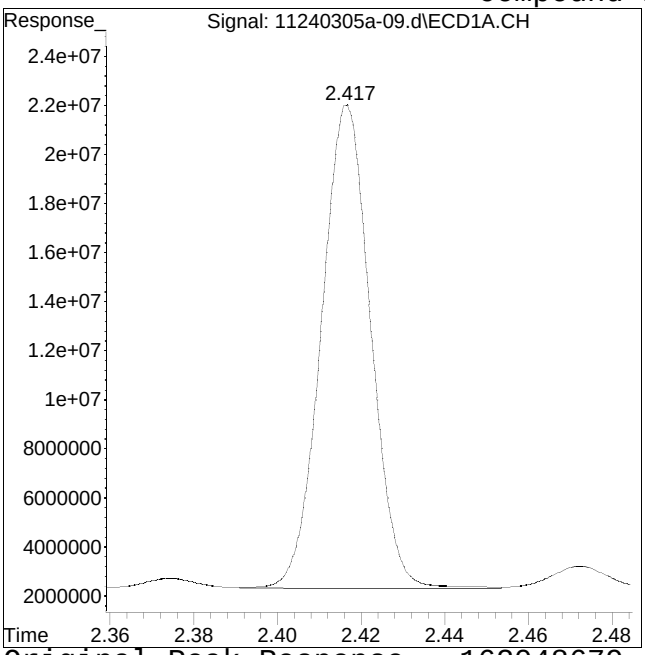


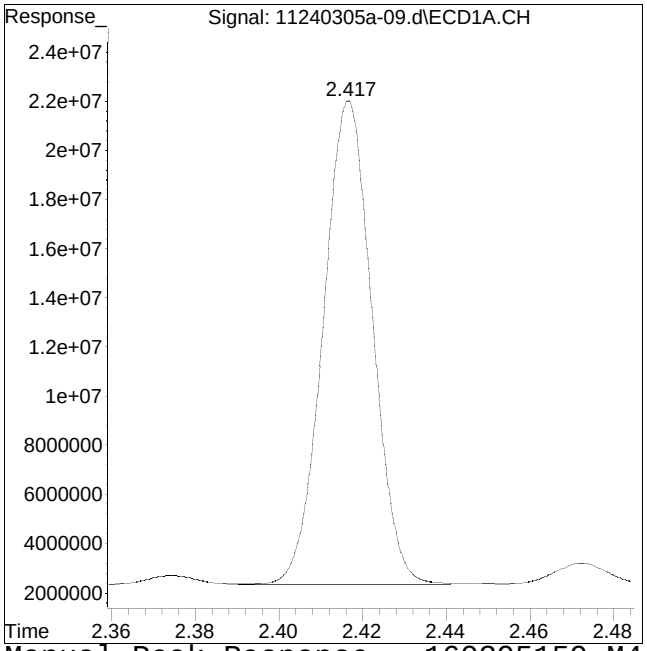
Original Peak Response = 170279671 Manual Peak Response = 157642735 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-09.d Operator : PEST11:mmg
Date Inj'd : 3/5/2024 9:03 am Instrument : Pest 11
Sample : WG1892124-3,42,, Quant Date : 3/5/2024 10:54 am

Compound #7: delta-BHC



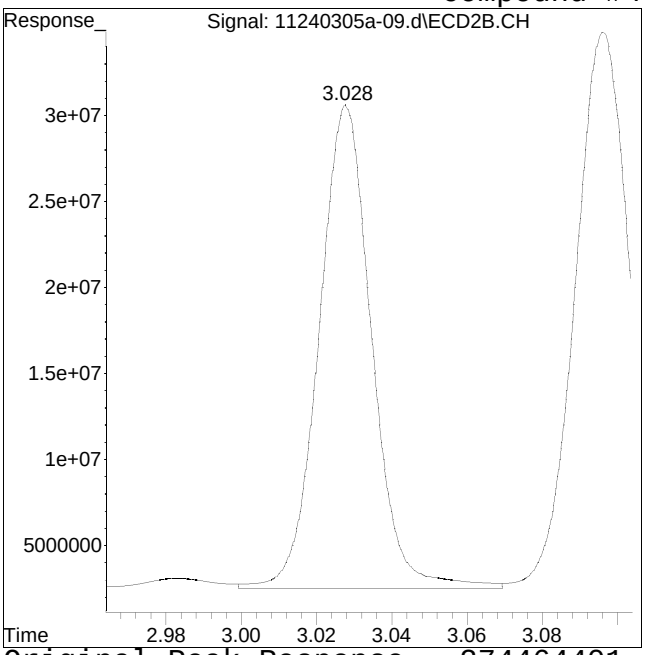


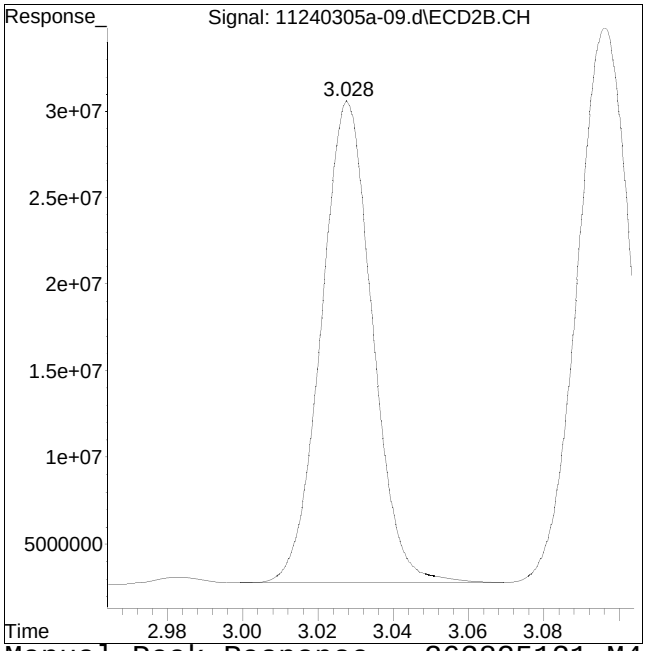
Original Peak Response = 162048679 Manual Peak Response = 160395159 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-09.d Operator : PEST11:mmg
Date Inj'd : 3/5/2024 9:03 am Instrument : Pest 11
Sample : WG1892124-3,42,, Quant Date : 3/5/2024 10:54 am

Compound #45: delta-BHC #2



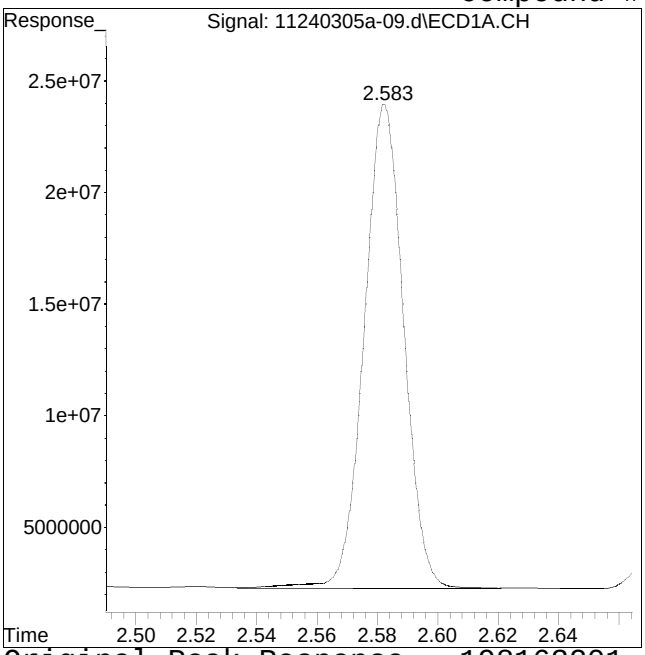


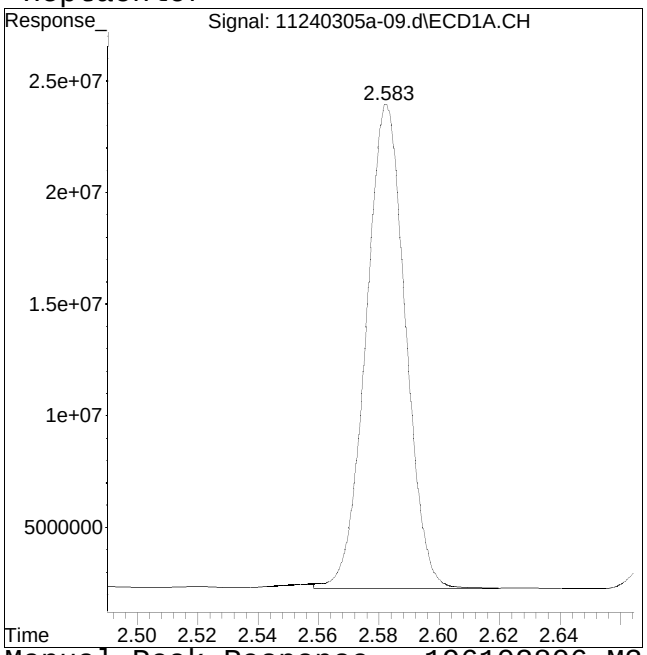
Original Peak Response = 274464401 Manual Peak Response = 262825121 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-09.d Operator : PEST11:mmg
Date Inj'd : 3/5/2024 9:03 am Instrument : Pest 11
Sample : WG1892124-3,42,, Quant Date : 3/5/2024 10:54 am

Compound #8: Heptachlor



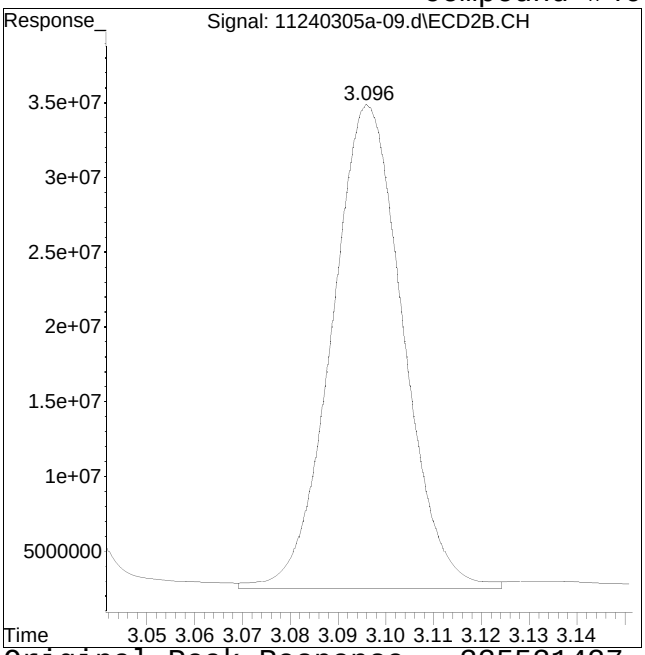


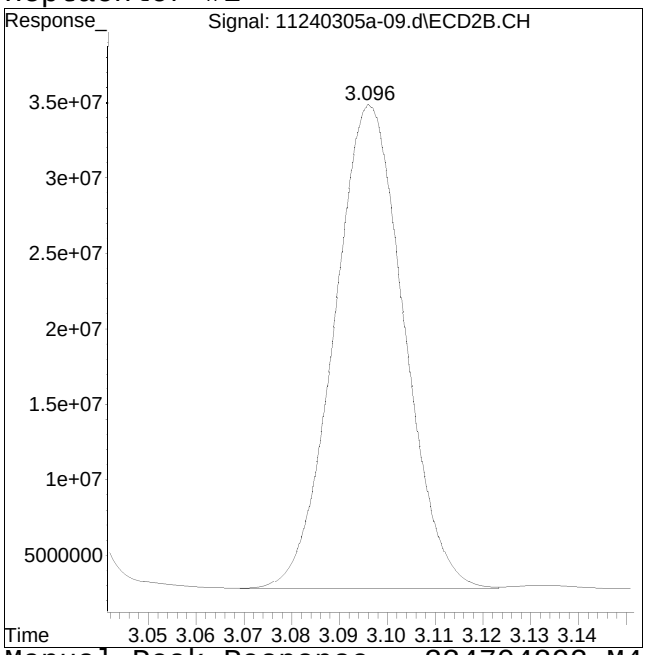
Original Peak Response = 198163201 Manual Peak Response = 196102806 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-09.d Operator : PEST11:mmg
Date Inj'd : 3/5/2024 9:03 am Instrument : Pest 11
Sample : WG1892124-3,42,, Quant Date : 3/5/2024 10:54 am

Compound #46: Heptachlor #2



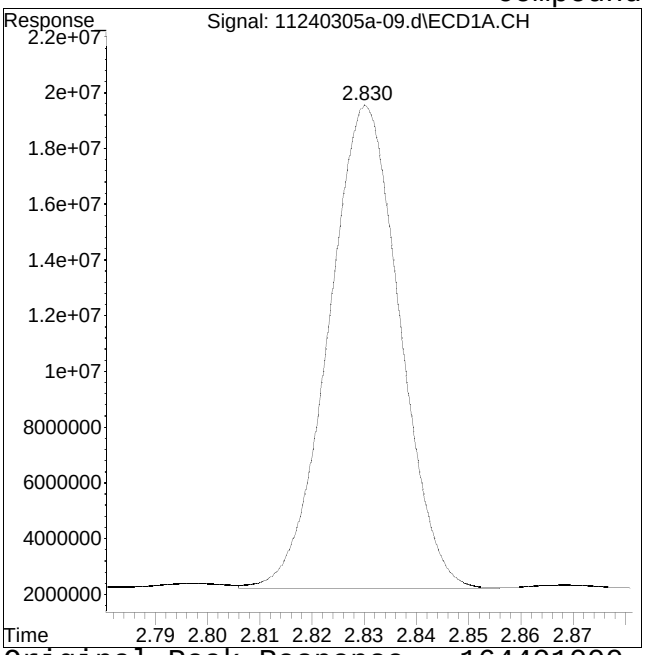


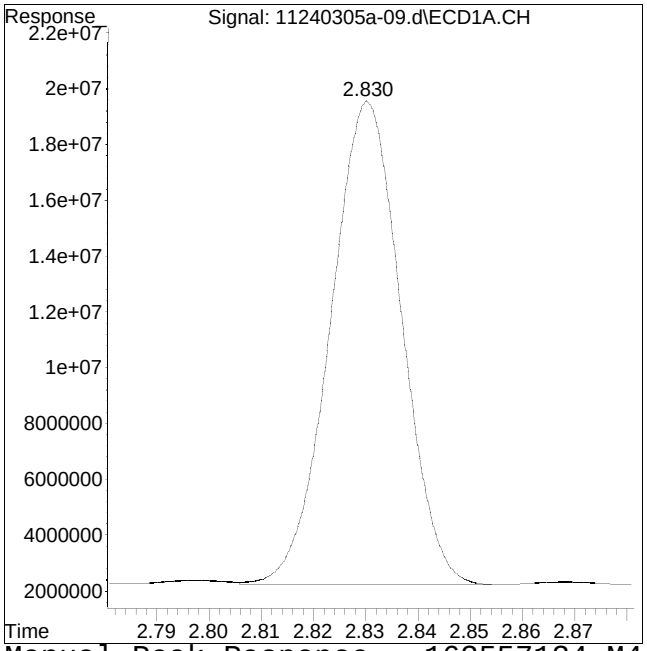
Original Peak Response = 335531427 Manual Peak Response = 324704292 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-09.d Operator : PEST11:mmg
Date Inj'd : 3/5/2024 9:03 am Instrument : Pest 11
Sample : WG1892124-3,42,, Quant Date : 3/5/2024 10:54 am

Compound #9: Aldrin



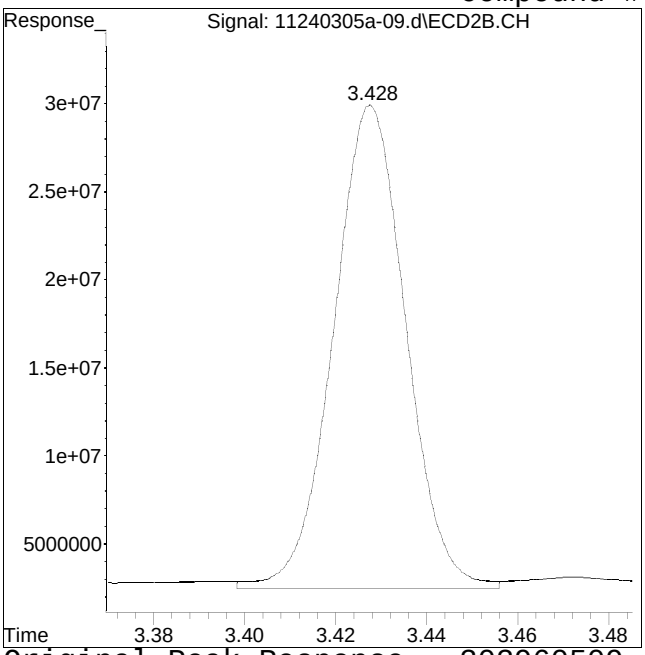


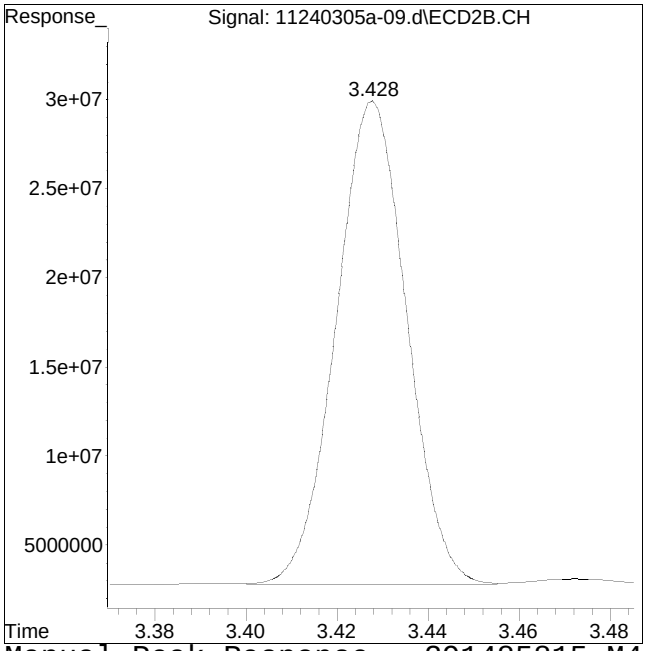
Original Peak Response = 164401000 Manual Peak Response = 163557134 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-09.d Operator : PEST11:mmg
Date Inj'd : 3/5/2024 9:03 am Instrument : Pest 11
Sample : WG1892124-3,42,, Quant Date : 3/5/2024 10:54 am

Compound #47: Aldrin #2



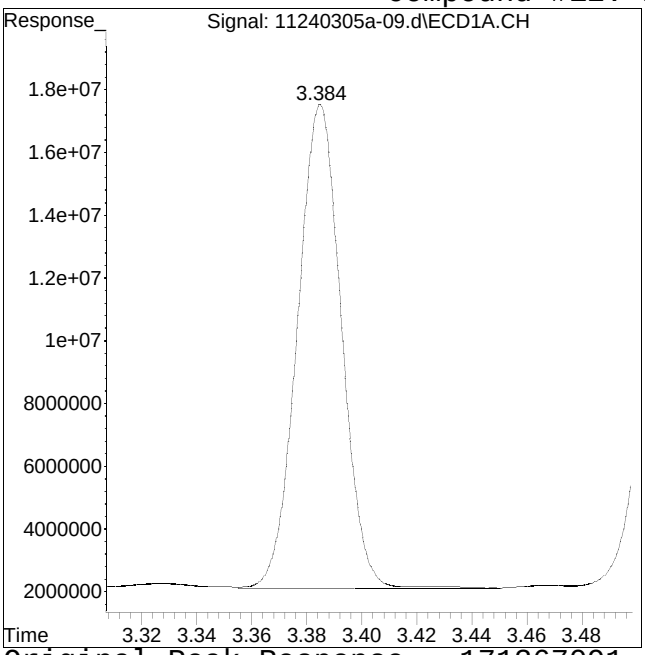


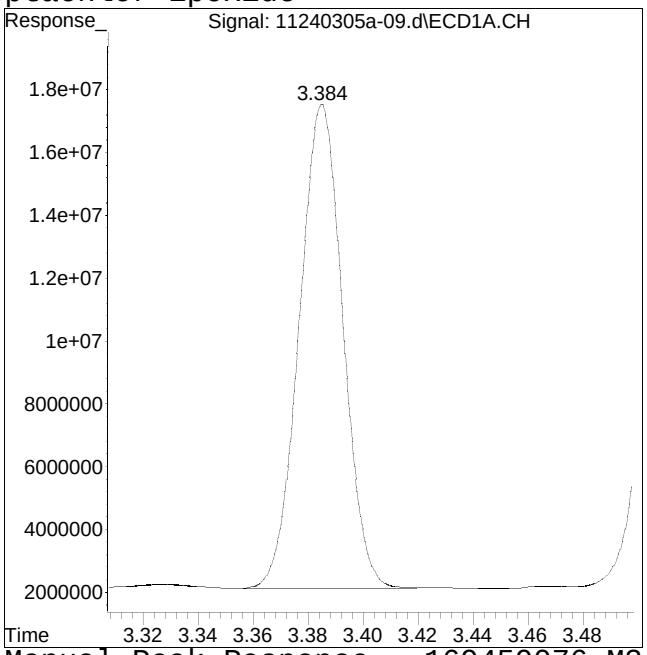
Original Peak Response = 303960509 Manual Peak Response = 291485815 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-09.d Operator : PEST11:mmg
Date Inj'd : 3/5/2024 9:03 am Instrument : Pest 11
Sample : WG1892124-3,42,, Quant Date : 3/5/2024 10:54 am

Compound #12: Heptachlor Epoxide



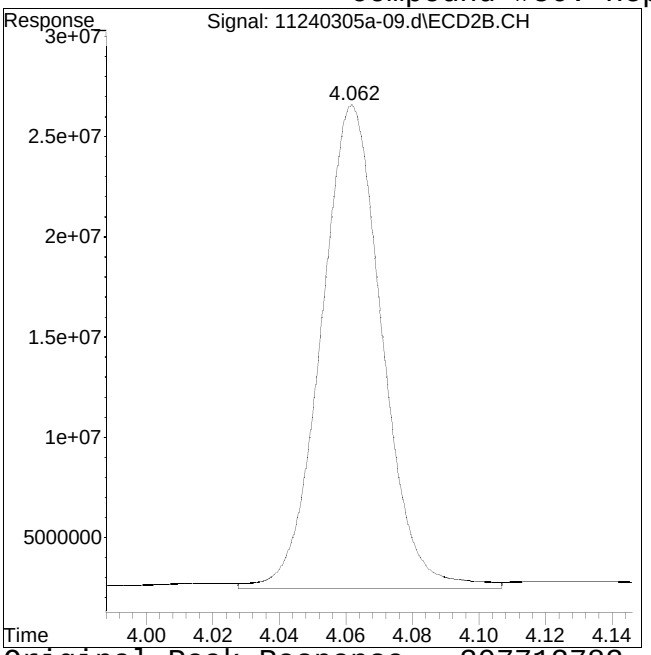


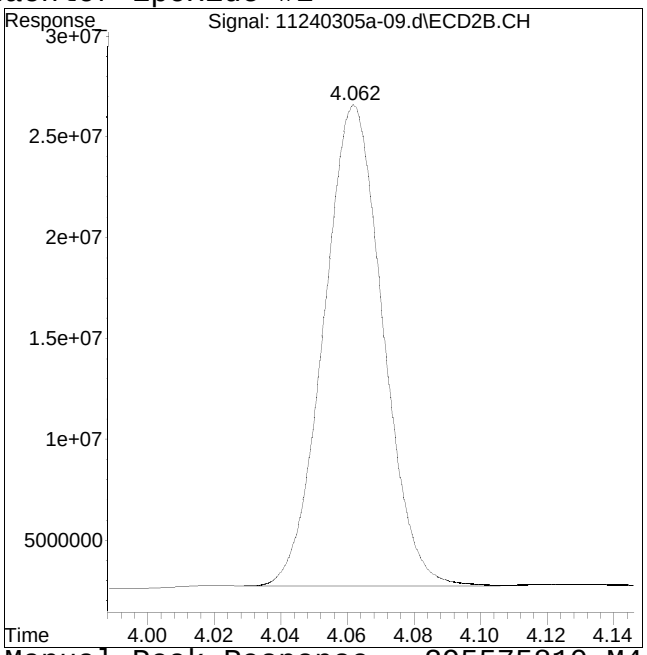
Original Peak Response = 171367091 Manual Peak Response = 169459076 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-09.d Operator : PEST11:mmg
Date Inj'd : 3/5/2024 9:03 am Instrument : Pest 11
Sample : WG1892124-3,42,, Quant Date : 3/5/2024 10:54 am

Compound #50: Heptachlor Epoxide #2



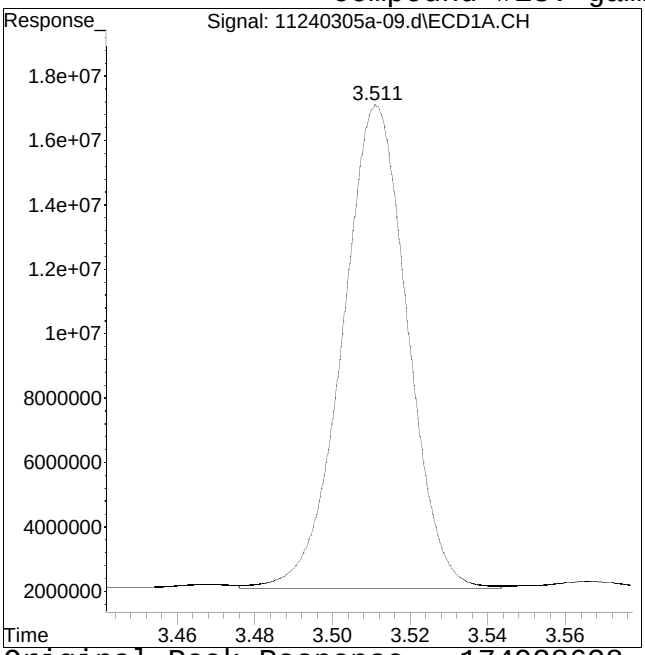


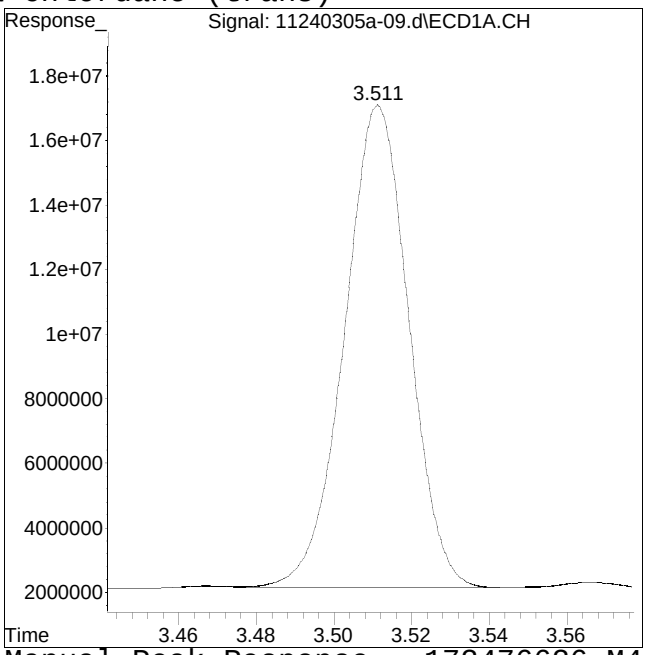
Original Peak Response = 307712783 Manual Peak Response = 295575810 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-09.d Operator : PEST11:mmg
Date Inj'd : 3/5/2024 9:03 am Instrument : Pest 11
Sample : WG1892124-3,42,, Quant Date : 3/5/2024 10:54 am

Compound #13: gamma-Chlordane (trans)



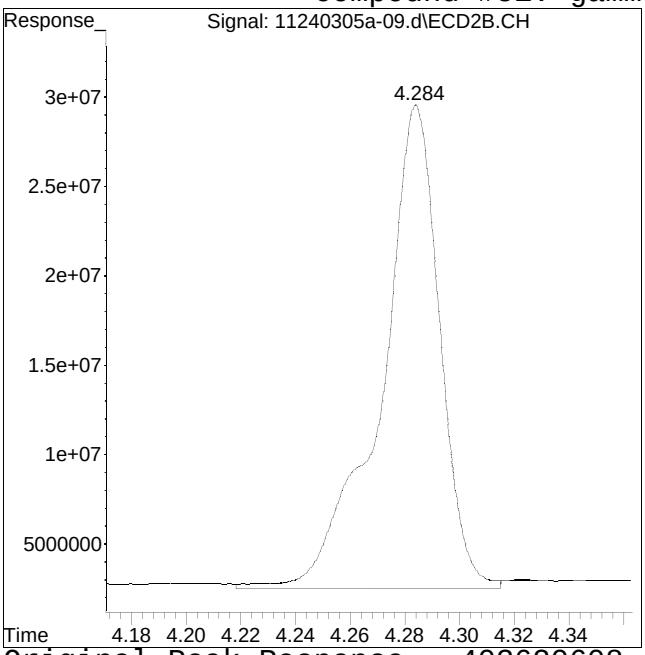


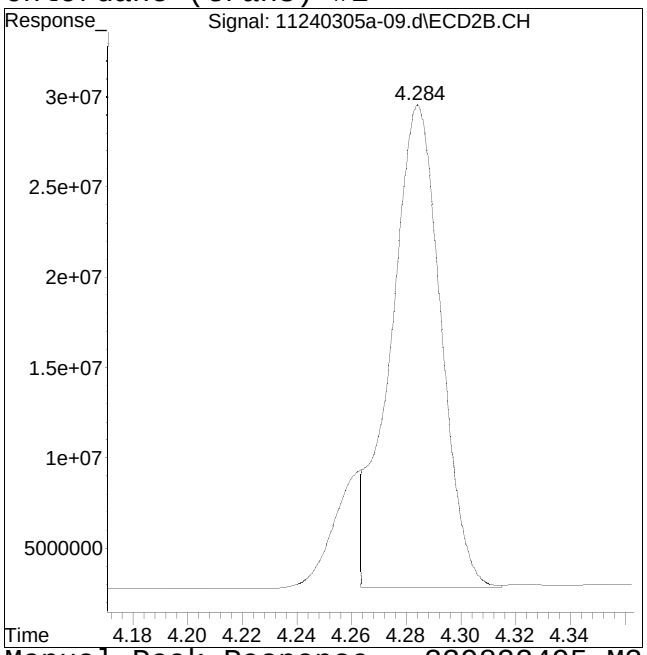
Original Peak Response = 174928638 Manual Peak Response = 172476626 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-09.d Operator : PEST11:mmg
Date Inj'd : 3/5/2024 9:03 am Instrument : Pest 11
Sample : WG1892124-3,42,, Quant Date : 3/5/2024 10:54 am

Compound #51: gamma-Chlordane (trans) #2



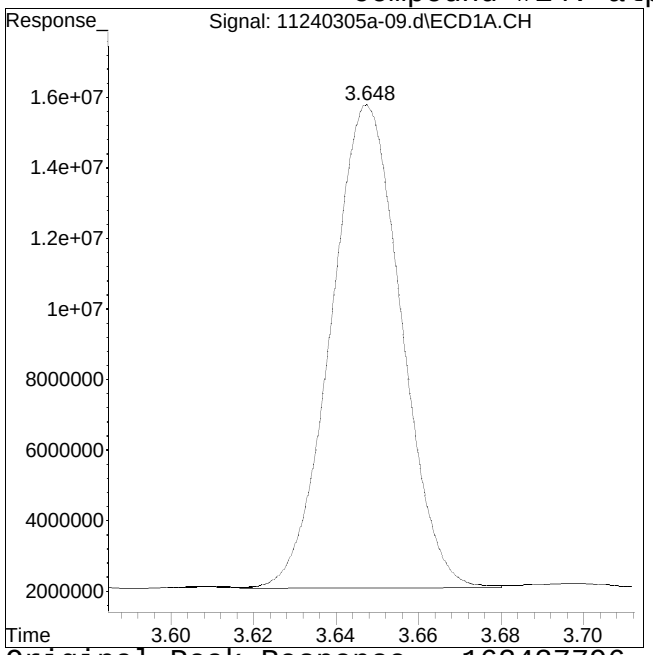


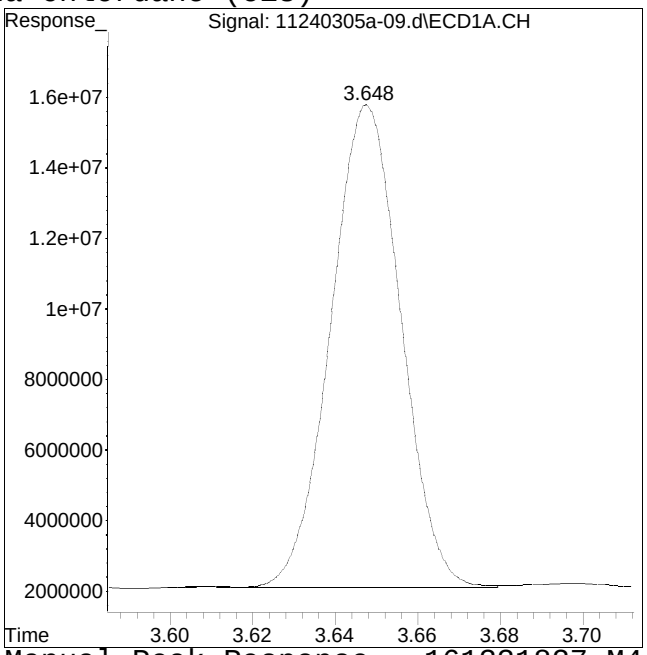
Original Peak Response = 403620608 Manual Peak Response = 339822495 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-09.d Operator : PEST11:mmg
Date Inj'd : 3/5/2024 9:03 am Instrument : Pest 11
Sample : WG1892124-3,42,, Quant Date : 3/5/2024 10:54 am

Compound #14: alpha-Chlordane (cis)



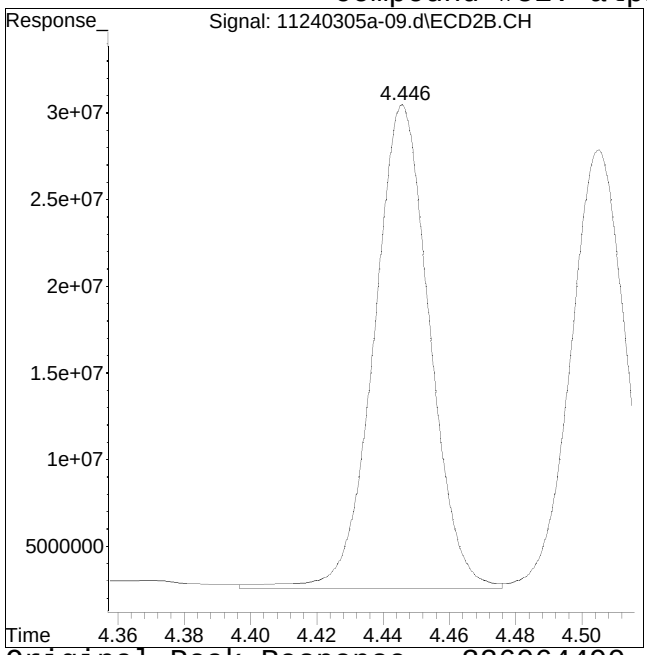


Original Peak Response = 162437796 Manual Peak Response = 161331827 M4
M4 = Poor automated baseline construction.

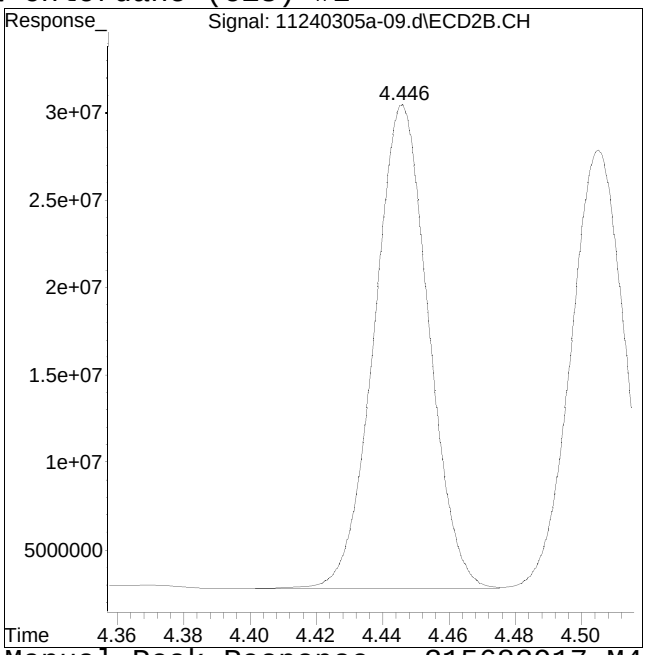
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-09.d Operator : PEST11:mmg
Date Inj'd : 3/5/2024 9:03 am Instrument : Pest 11
Sample : WG1892124-3,42,, Quant Date : 3/5/2024 10:54 am

Compound #52: alpha-Chlordane (cis) #2



Original Peak Response = 326064490



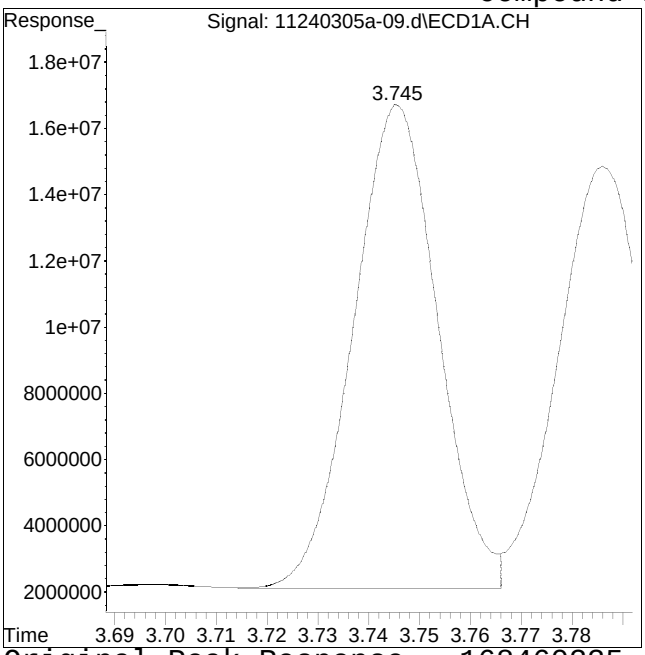
Manual Peak Response = 315683917 M4

M4 = Poor automated baseline construction.

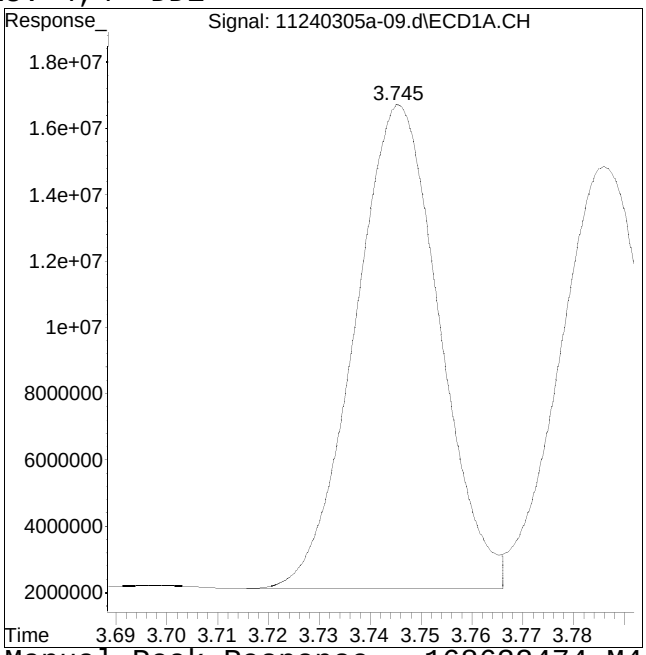
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-09.d Operator : PEST11:mmg
Date Inj'd : 3/5/2024 9:03 am Instrument : Pest 11
Sample : WG1892124-3,42,, Quant Date : 3/5/2024 10:54 am

Compound #15: 4,4'-DDE



Original Peak Response = 168460335



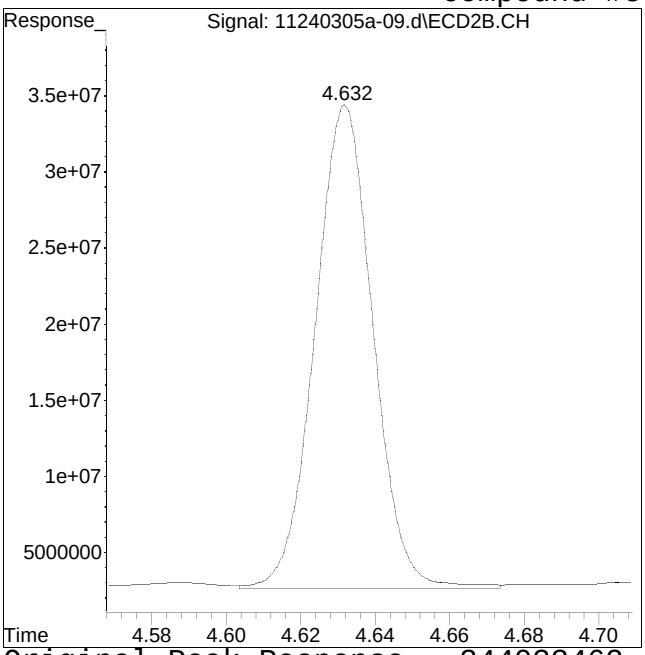
Manual Peak Response = 168632474 M4

M4 = Poor automated baseline construction.

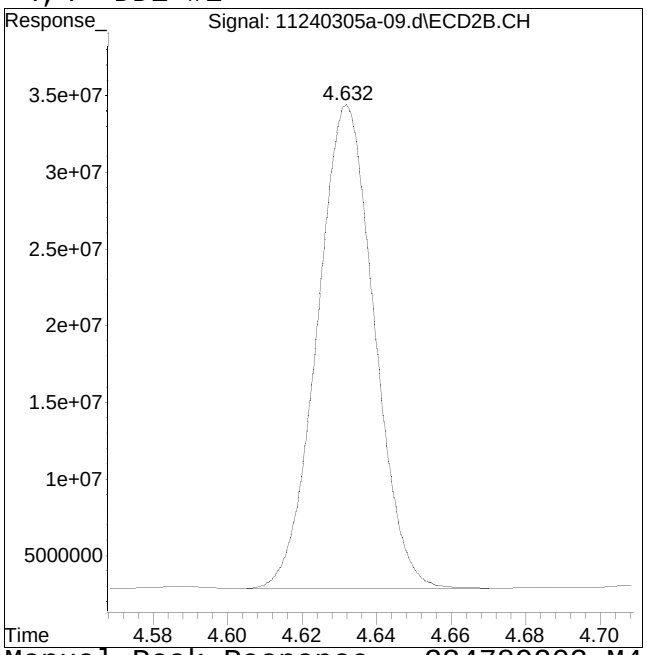
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-09.d Operator : PEST11:mmg
Date Inj'd : 3/5/2024 9:03 am Instrument : Pest 11
Sample : WG1892124-3,42,, Quant Date : 3/5/2024 10:54 am

Compound #53: 4,4'-DDE #2



Original Peak Response = 344033462

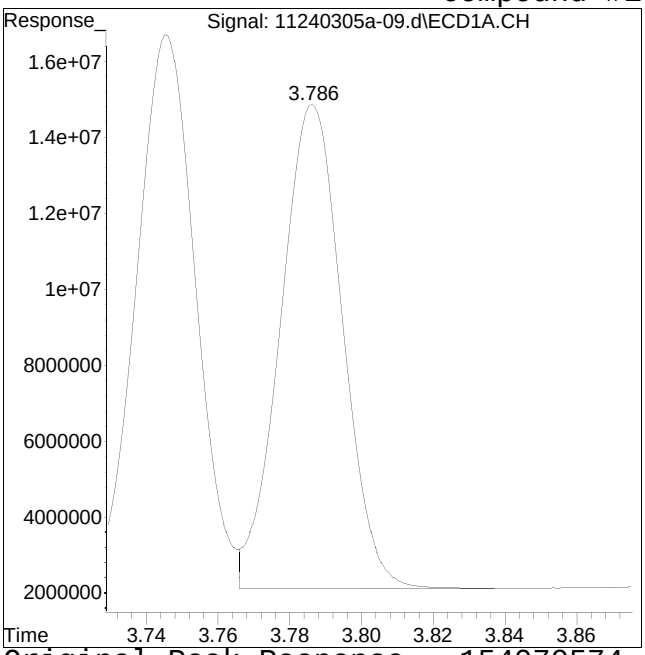


Manual Peak Response = 334789203 M4
M4 = Poor automated baseline construction.

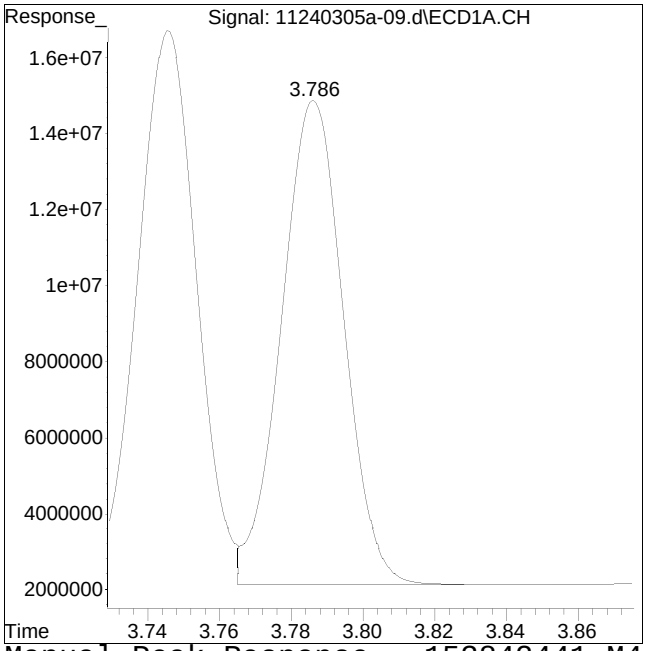
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-09.d Operator : PEST11:mmg
Date Inj'd : 3/5/2024 9:03 am Instrument : Pest 11
Sample : WG1892124-3,42,, Quant Date : 3/5/2024 10:54 am

Compound #16: Endosulfan I



Original Peak Response = 154070574

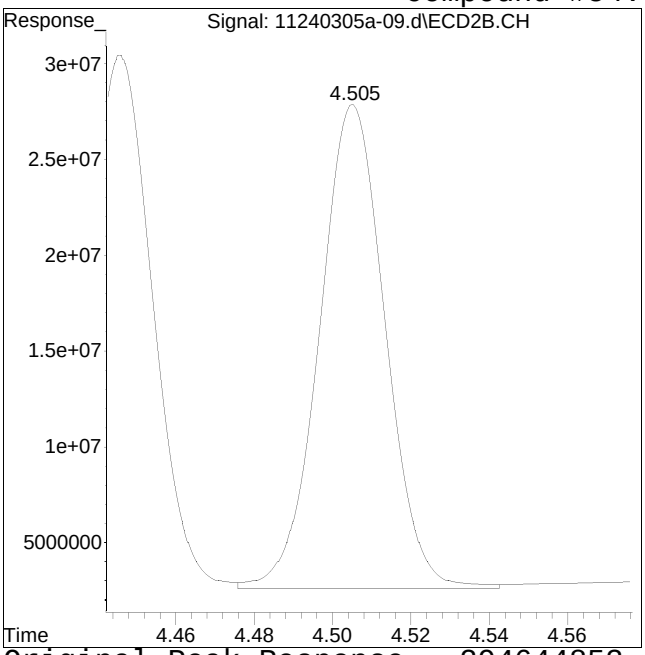


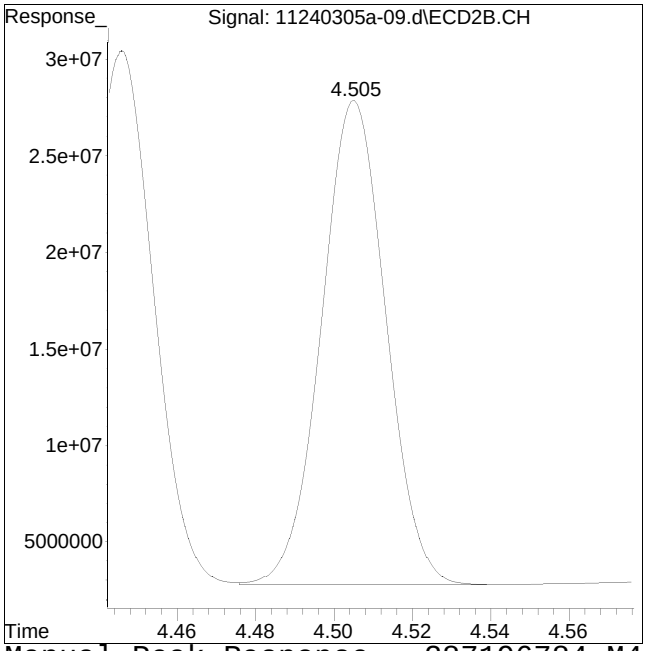
Manual Peak Response = 153842441 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-09.d Operator : PEST11:mmg
Date Inj'd : 3/5/2024 9:03 am Instrument : Pest 11
Sample : WG1892124-3,42,, Quant Date : 3/5/2024 10:54 am

Compound #54: Endosulfan I #2



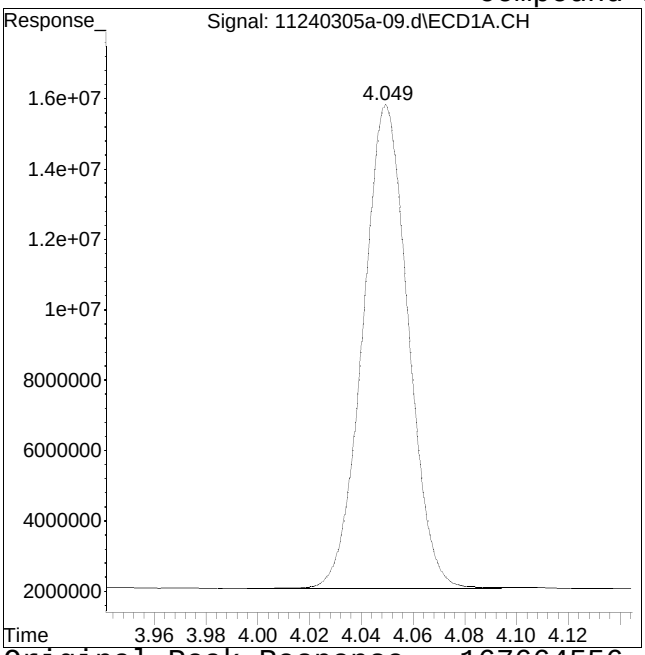


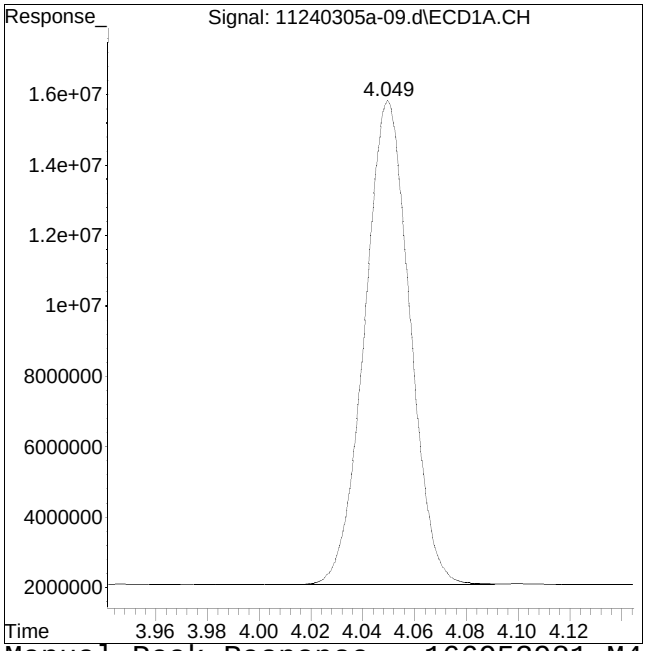
Original Peak Response = 294644853 Manual Peak Response = 287196784 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-09.d Operator : PEST11:mmg
Date Inj'd : 3/5/2024 9:03 am Instrument : Pest 11
Sample : WG1892124-3,42,, Quant Date : 3/5/2024 10:54 am

Compound #17: Dieldrin



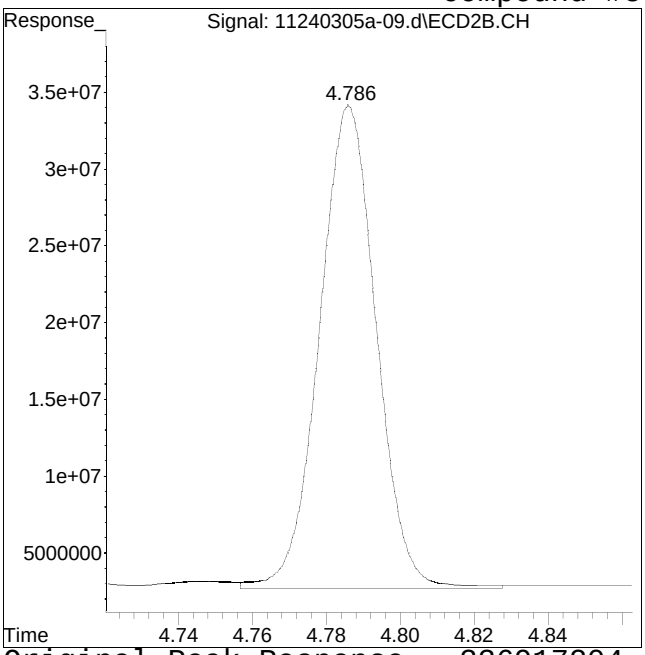


Original Peak Response = 167664556 Manual Peak Response = 166953981 M4
M4 = Poor automated baseline construction.

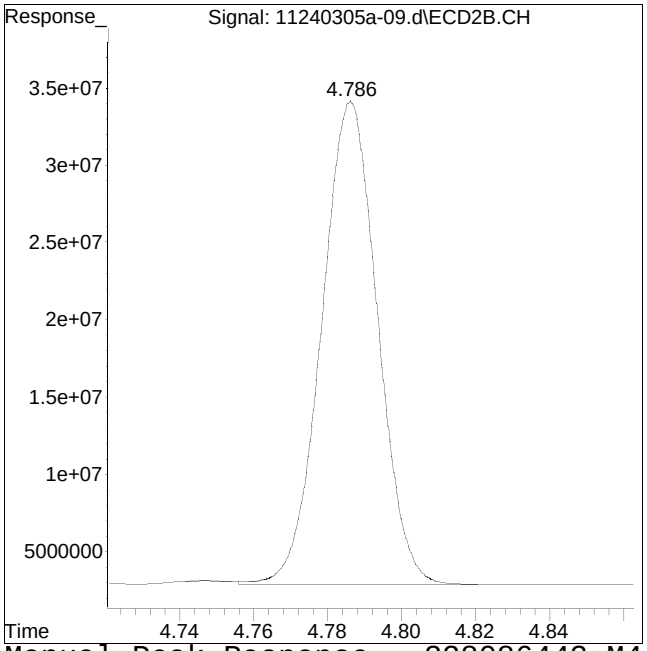
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-09.d Operator : PEST11:mmg
Date Inj'd : 3/5/2024 9:03 am Instrument : Pest 11
Sample : WG1892124-3,42,, Quant Date : 3/5/2024 10:54 am

Compound #55: Dieldrin #2



Original Peak Response = 336917204

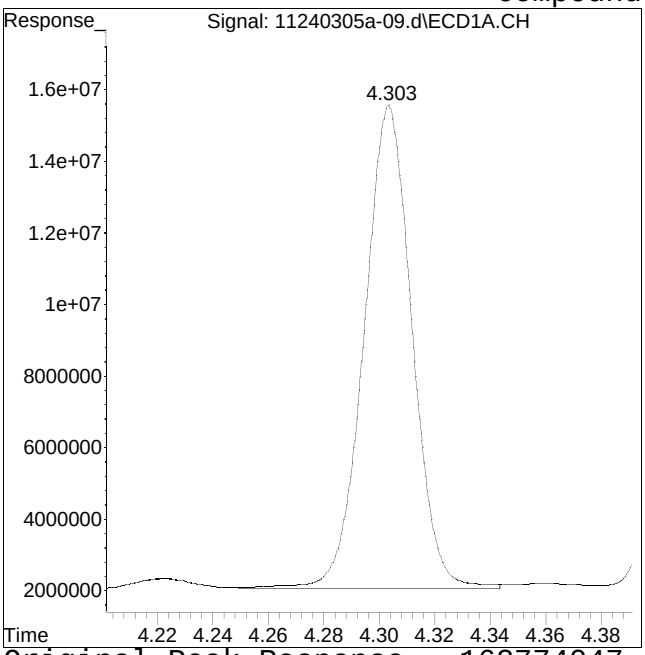


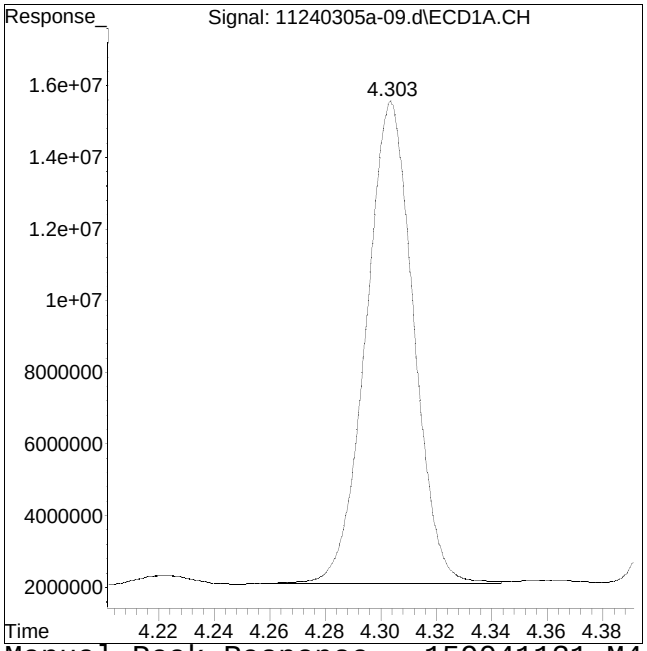
Manual Peak Response = 328086443 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-09.d Operator : PEST11:mmg
Date Inj'd : 3/5/2024 9:03 am Instrument : Pest 11
Sample : WG1892124-3,42,, Quant Date : 3/5/2024 10:54 am

Compound #18: Endrin



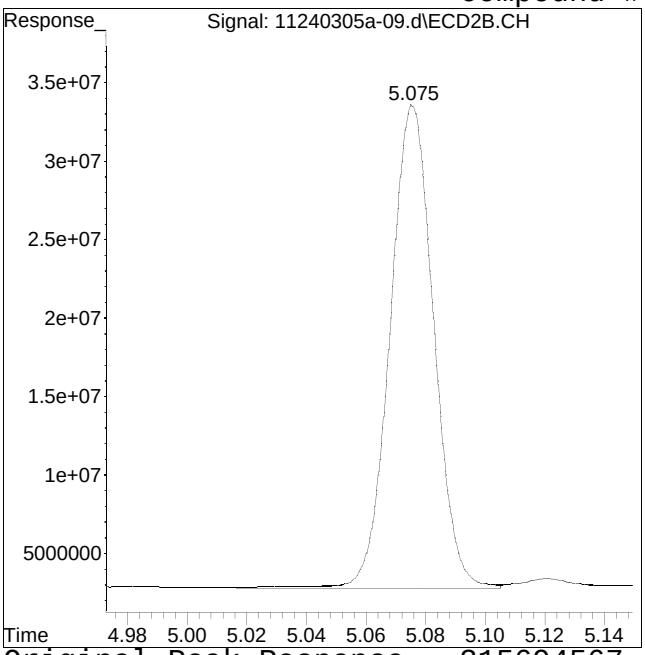


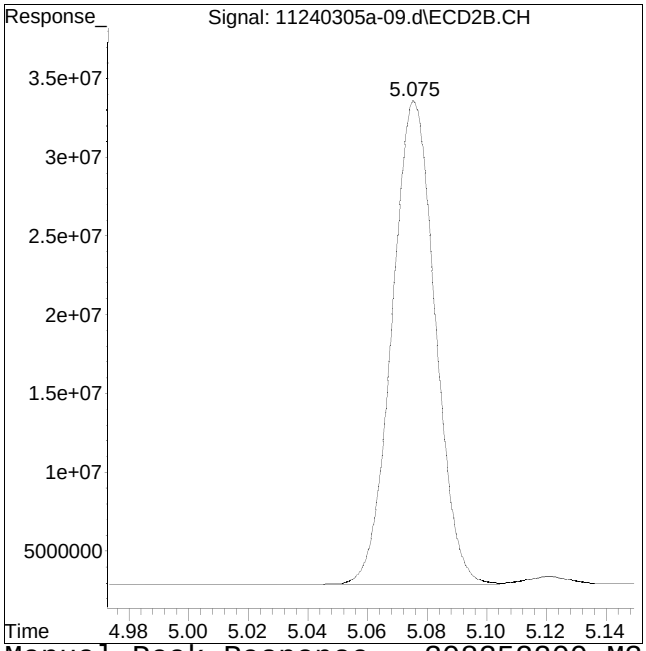
Original Peak Response = 162774047 Manual Peak Response = 159041131 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-09.d Operator : PEST11:mmg
Date Inj'd : 3/5/2024 9:03 am Instrument : Pest 11
Sample : WG1892124-3,42,, Quant Date : 3/5/2024 10:54 am

Compound #56: Endrin #2



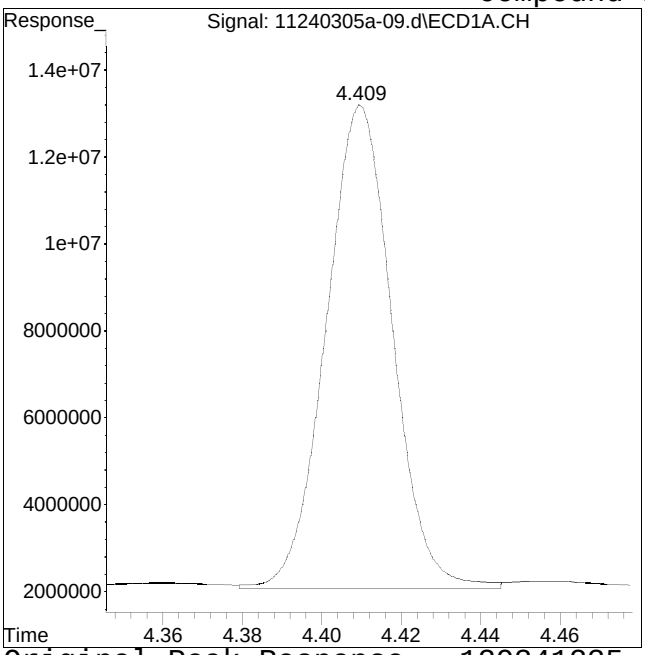


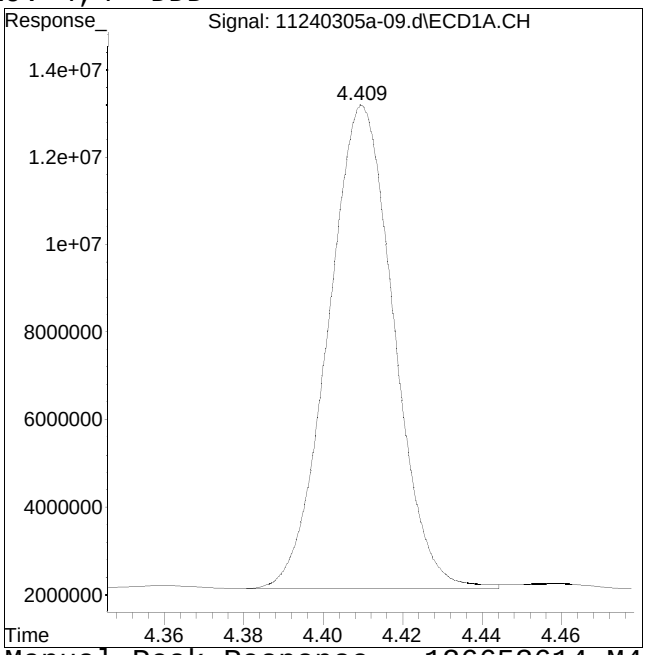
Original Peak Response = 315694567 Manual Peak Response = 308352200 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-09.d Operator : PEST11:mmg
Date Inj'd : 3/5/2024 9:03 am Instrument : Pest 11
Sample : WG1892124-3,42,, Quant Date : 3/5/2024 10:54 am

Compound #19: 4,4'-DDD



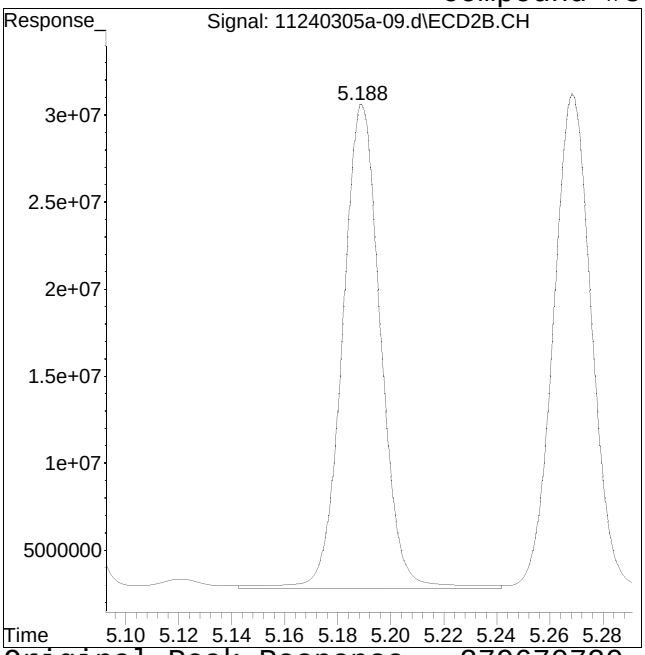


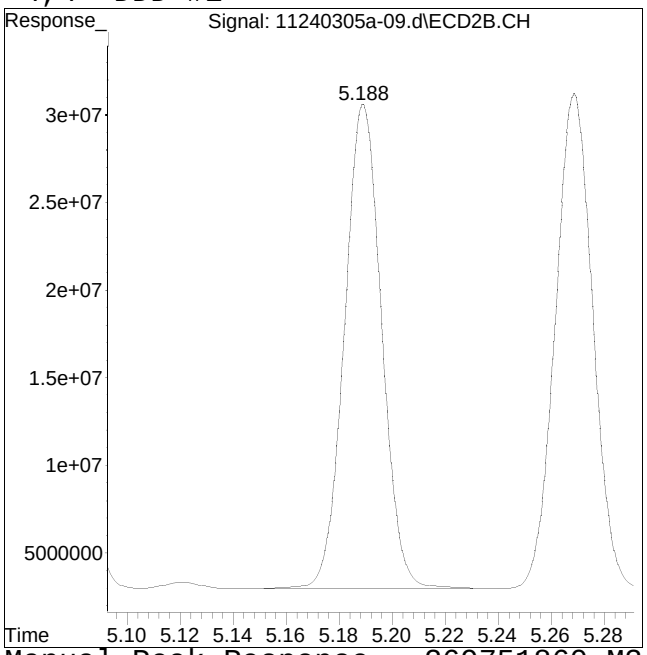
Original Peak Response = 129341235 Manual Peak Response = 126653614 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-09.d Operator : PEST11:mmg
Date Inj'd : 3/5/2024 9:03 am Instrument : Pest 11
Sample : WG1892124-3,42,, Quant Date : 3/5/2024 10:54 am

Compound #57: 4,4'-DDD #2



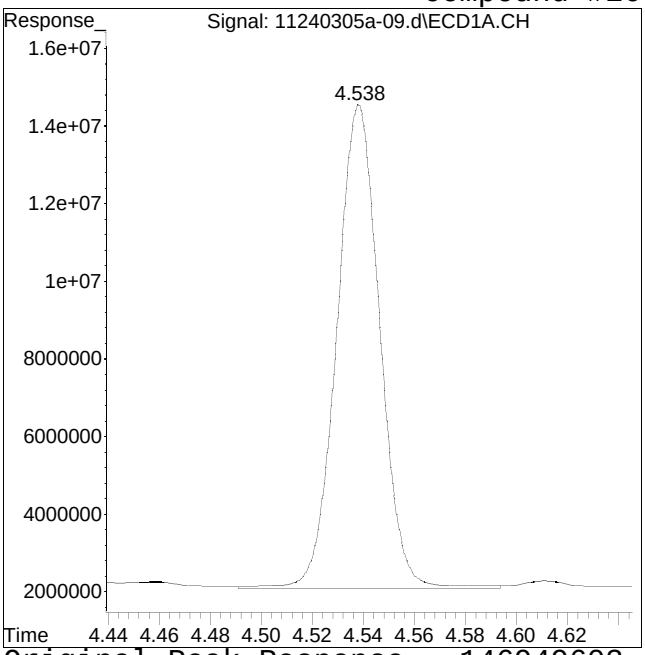


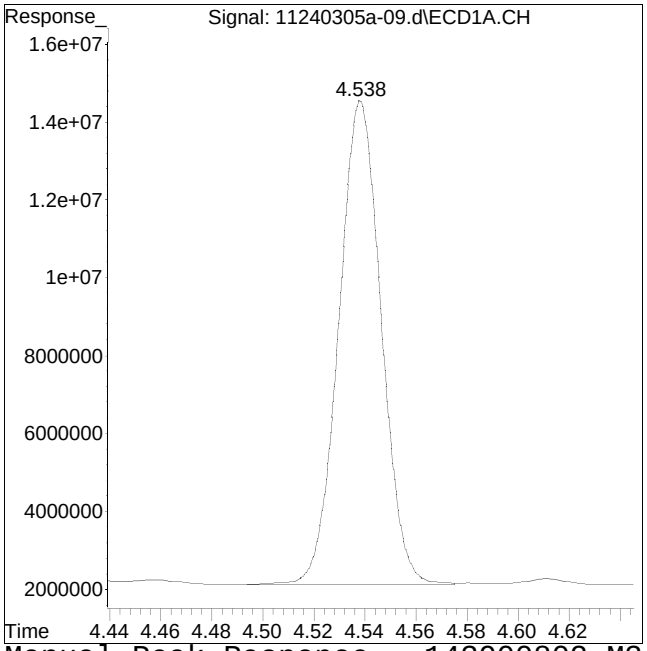
Original Peak Response = 279670720 Manual Peak Response = 269751860 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-09.d Operator : PEST11:mmg
Date Inj'd : 3/5/2024 9:03 am Instrument : Pest 11
Sample : WG1892124-3,42,, Quant Date : 3/5/2024 10:54 am

Compound #20: Endosulfan II



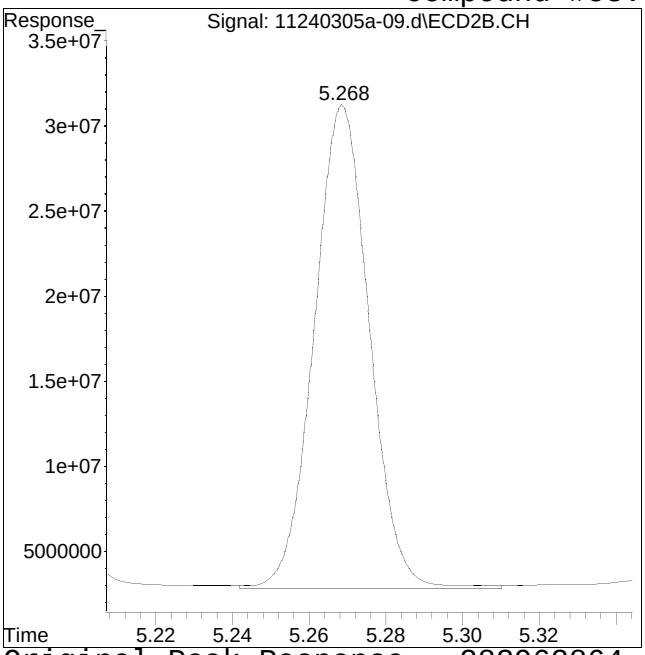


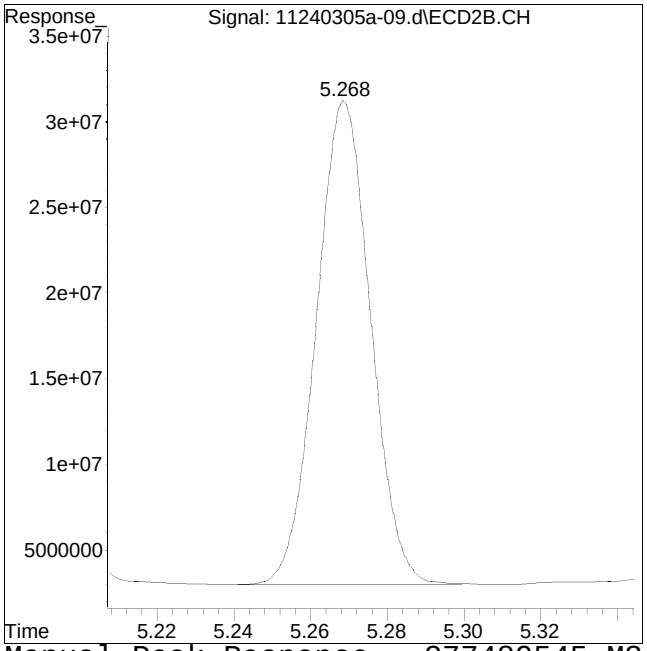
Original Peak Response = 146949603 Manual Peak Response = 143900802 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-09.d Operator : PEST11:mmg
Date Inj'd : 3/5/2024 9:03 am Instrument : Pest 11
Sample : WG1892124-3,42,, Quant Date : 3/5/2024 10:54 am

Compound #58: Endosulfan II #2



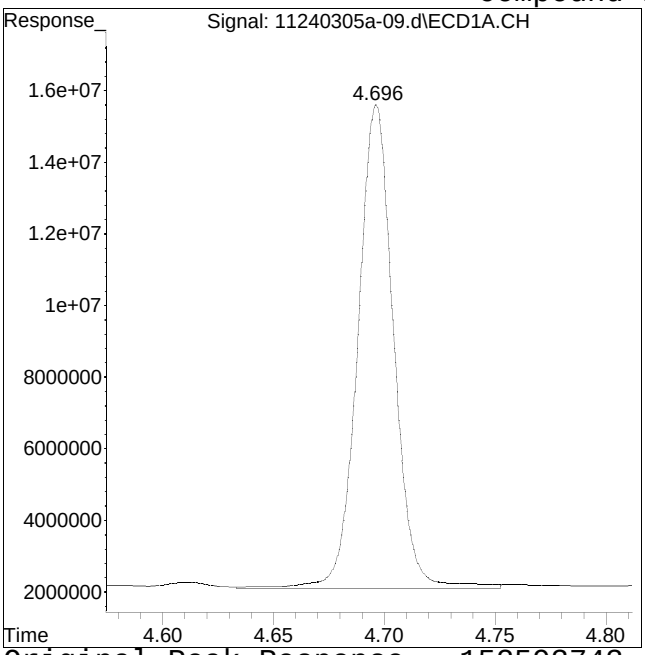


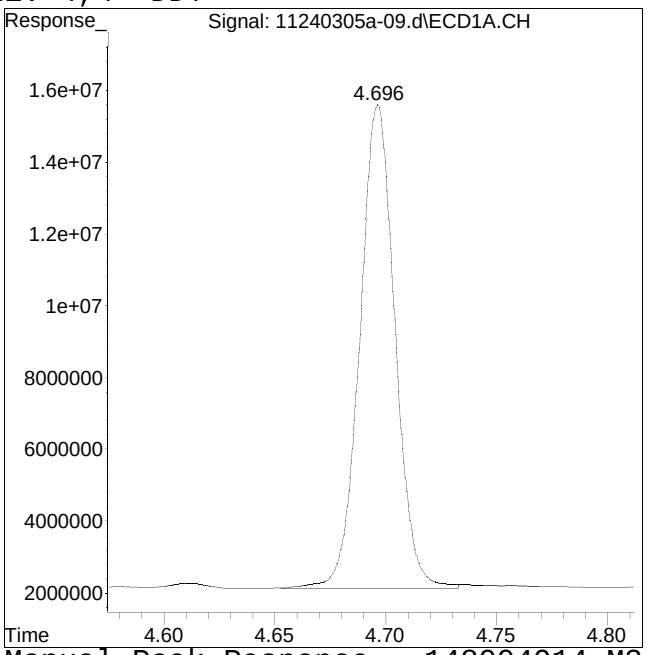
Original Peak Response = 283962864 Manual Peak Response = 277489545 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-09.d Operator : PEST11:mmg
Date Inj'd : 3/5/2024 9:03 am Instrument : Pest 11
Sample : WG1892124-3,42,, Quant Date : 3/5/2024 10:54 am

Compound #21: 4,4'-DDT



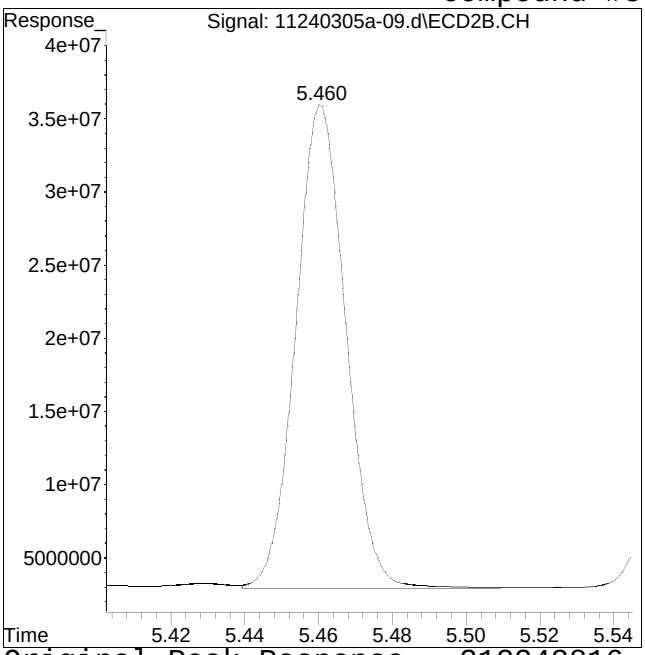


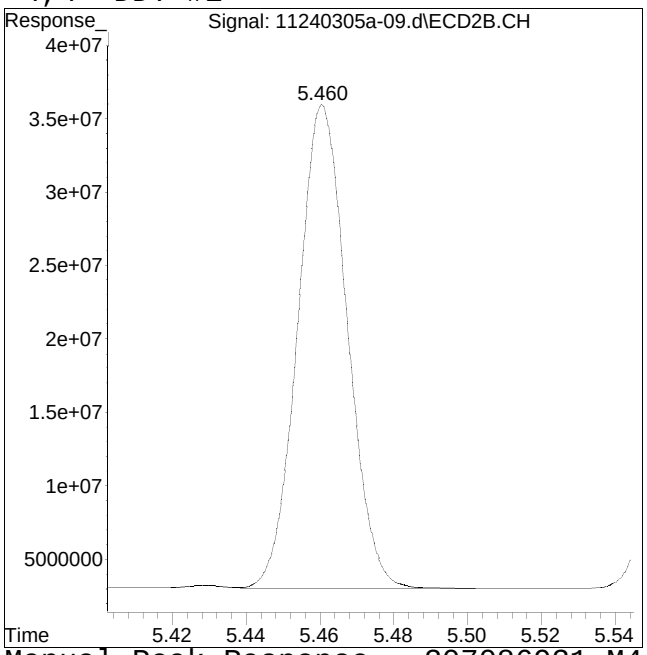
Original Peak Response = 152593743 Manual Peak Response = 148904914 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-09.d Operator : PEST11:mmg
Date Inj'd : 3/5/2024 9:03 am Instrument : Pest 11
Sample : WG1892124-3,42,, Quant Date : 3/5/2024 10:54 am

Compound #59: 4,4'-DDT #2



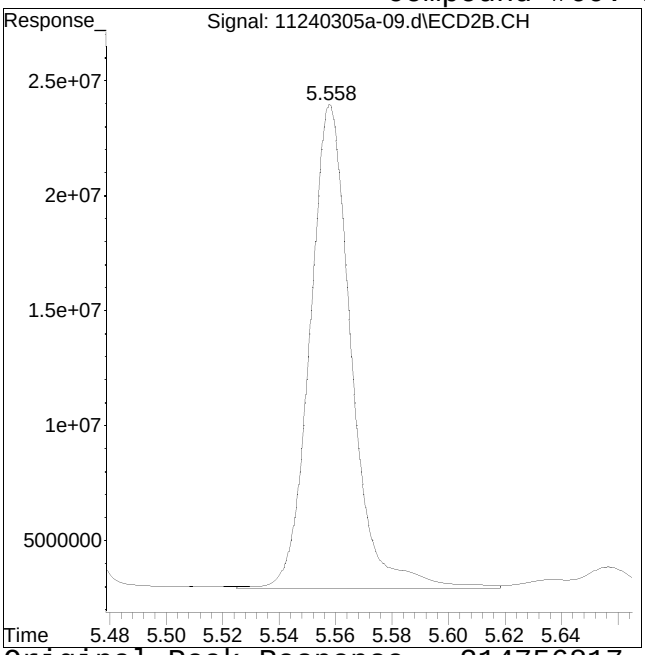


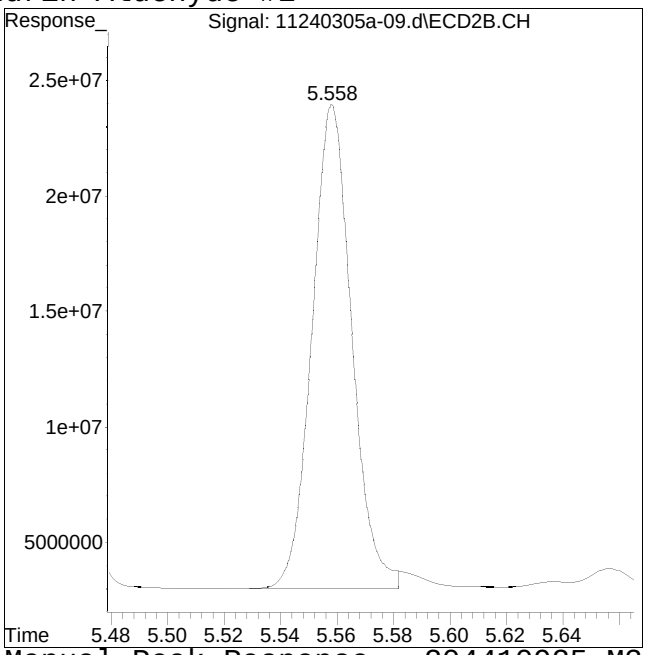
Original Peak Response = 312242816 Manual Peak Response = 307086931 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-09.d Operator : PEST11:mmg
Date Inj'd : 3/5/2024 9:03 am Instrument : Pest 11
Sample : WG1892124-3,42,, Quant Date : 3/5/2024 10:54 am

Compound #60: Endrin Aldehyde #2



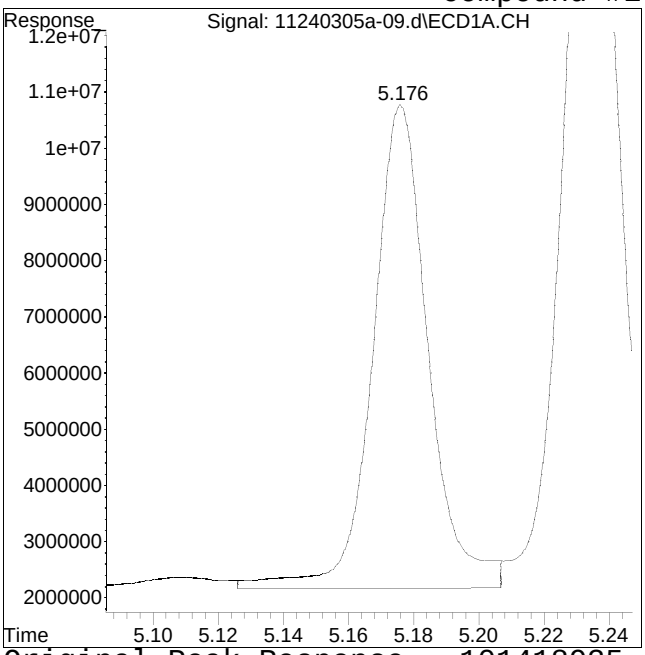


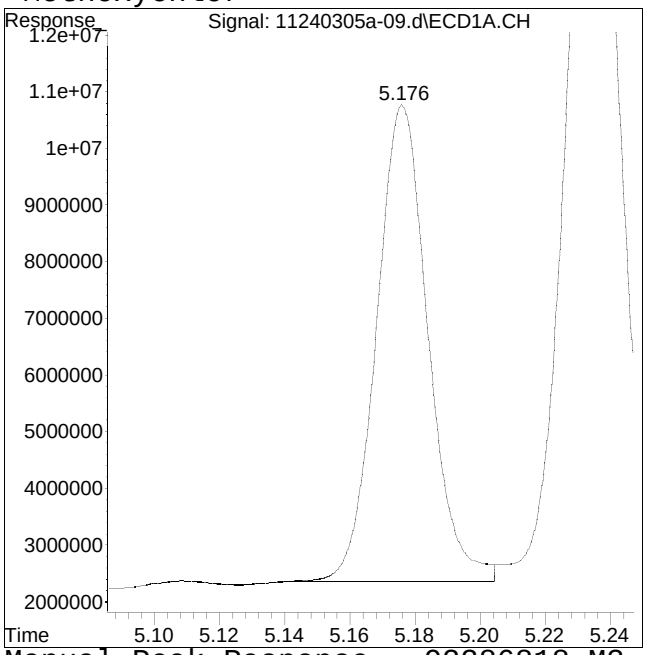
Original Peak Response = 214756817 Manual Peak Response = 204410925 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-09.d Operator : PEST11:mmg
Date Inj'd : 3/5/2024 9:03 am Instrument : Pest 11
Sample : WG1892124-3,42,, Quant Date : 3/5/2024 10:54 am

Compound #23: Methoxychlor



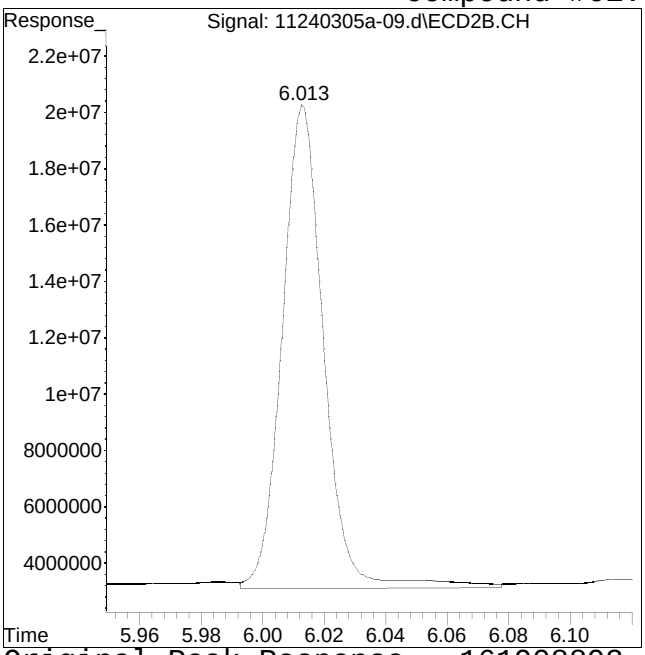


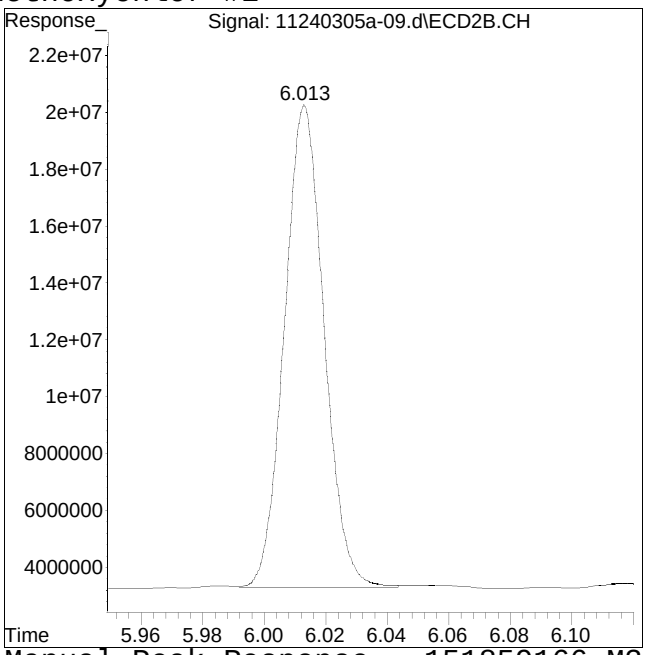
Original Peak Response = 101418935 Manual Peak Response = 92286818 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-09.d Operator : PEST11:mmg
Date Inj'd : 3/5/2024 9:03 am Instrument : Pest 11
Sample : WG1892124-3,42,, Quant Date : 3/5/2024 10:54 am

Compound #61: Methoxychlor #2



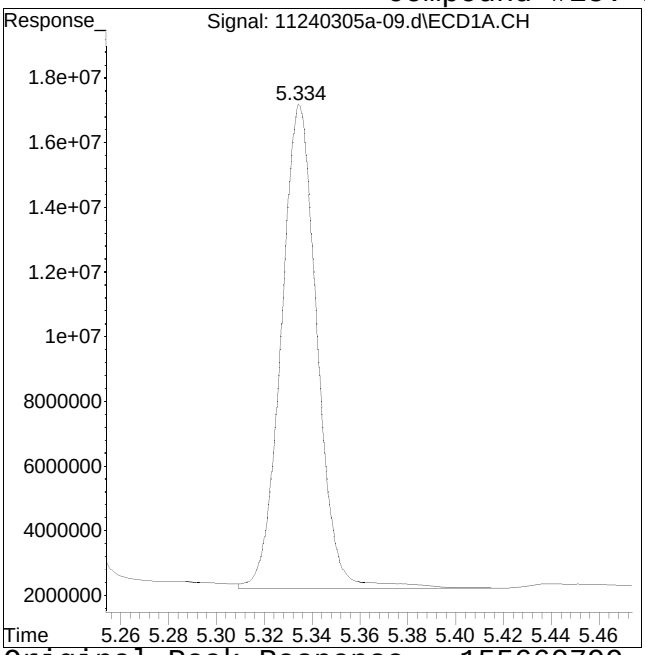


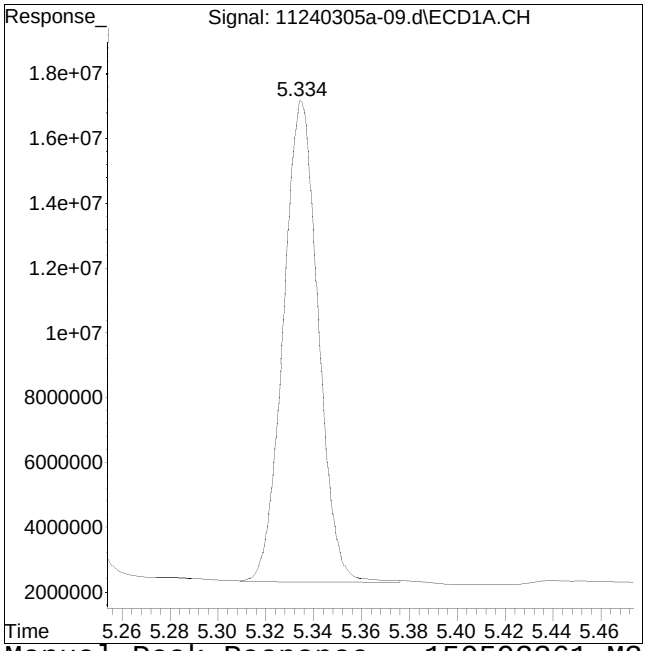
Original Peak Response = 161908893 Manual Peak Response = 151859166 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-09.d Operator : PEST11:mmg
Date Inj'd : 3/5/2024 9:03 am Instrument : Pest 11
Sample : WG1892124-3,42,, Quant Date : 3/5/2024 10:54 am

Compound #25: Endosulfan Sulfate



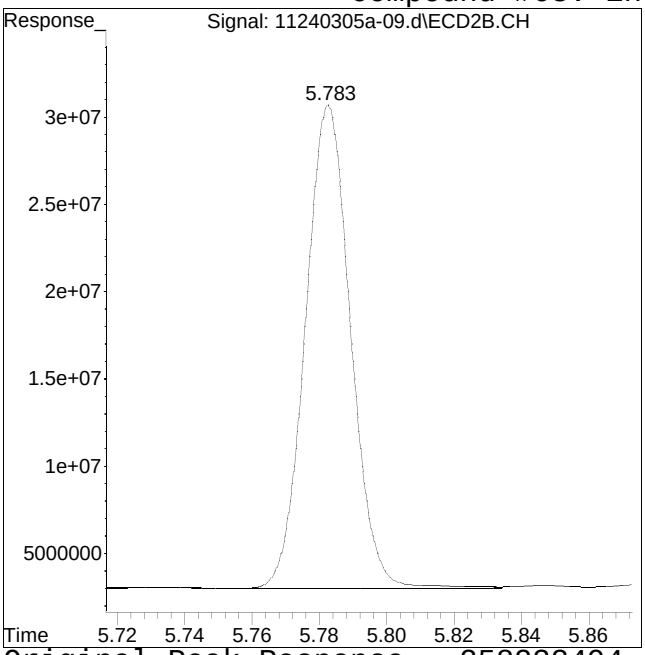


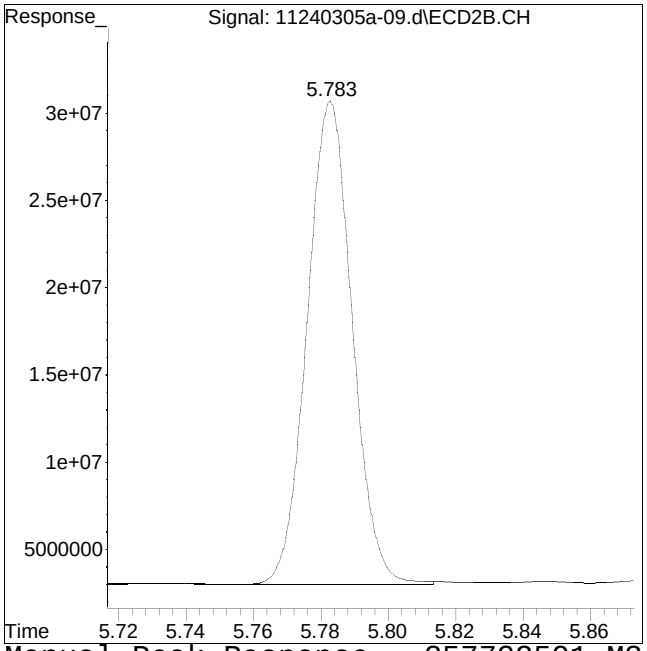
Original Peak Response = 155660799 Manual Peak Response = 150593361 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-09.d Operator : PEST11:mmg
Date Inj'd : 3/5/2024 9:03 am Instrument : Pest 11
Sample : WG1892124-3,42,, Quant Date : 3/5/2024 10:54 am

Compound #63: Endosulfan Sulfate #2



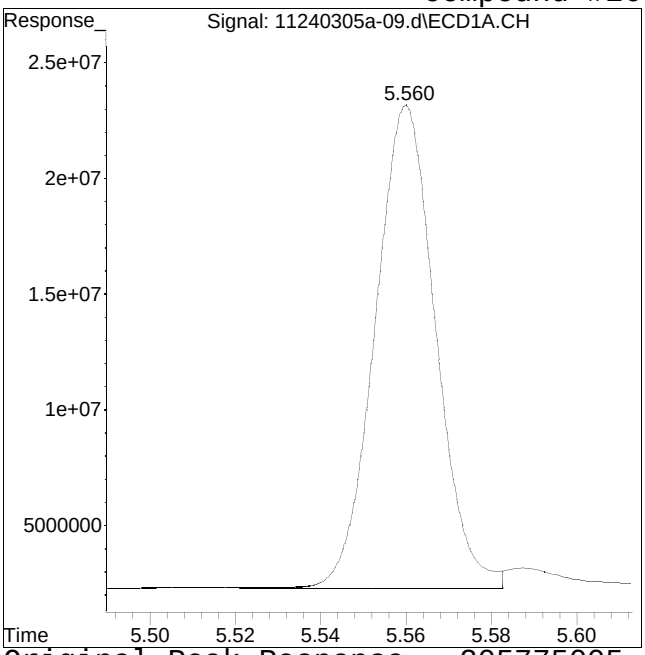


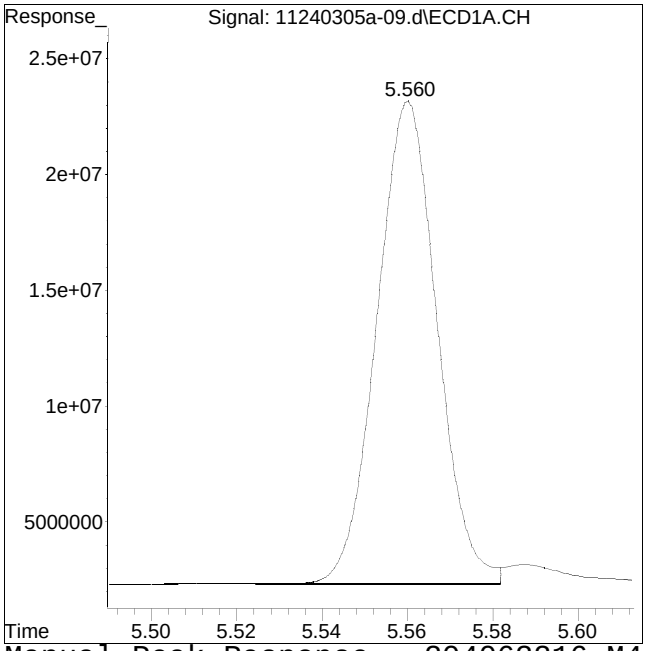
Original Peak Response = 258232494 Manual Peak Response = 257722591 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-09.d Operator : PEST11:mmg
Date Inj'd : 3/5/2024 9:03 am Instrument : Pest 11
Sample : WG1892124-3,42,, Quant Date : 3/5/2024 10:54 am

Compound #26: Endrin Ketone



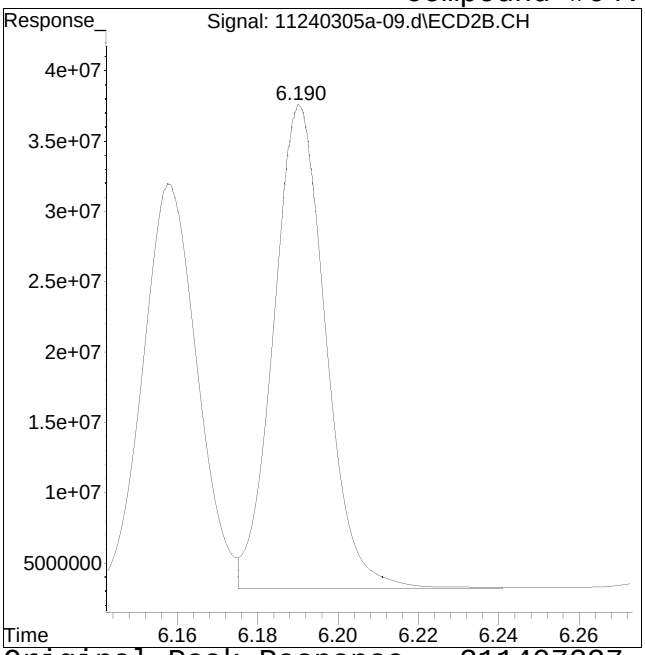


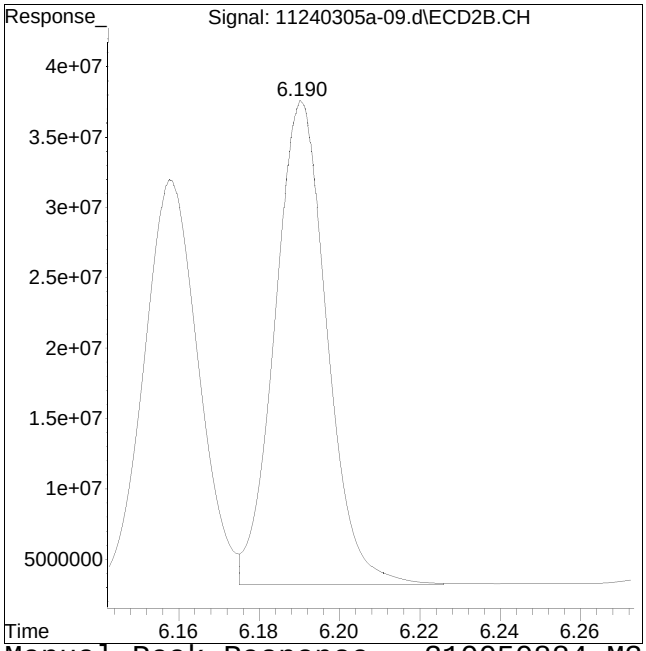
Original Peak Response = 205775005 Manual Peak Response = 204063216 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-09.d Operator : PEST11:mmg
Date Inj'd : 3/5/2024 9:03 am Instrument : Pest 11
Sample : WG1892124-3,42,, Quant Date : 3/5/2024 10:54 am

Compound #64: Endrin Ketone #2



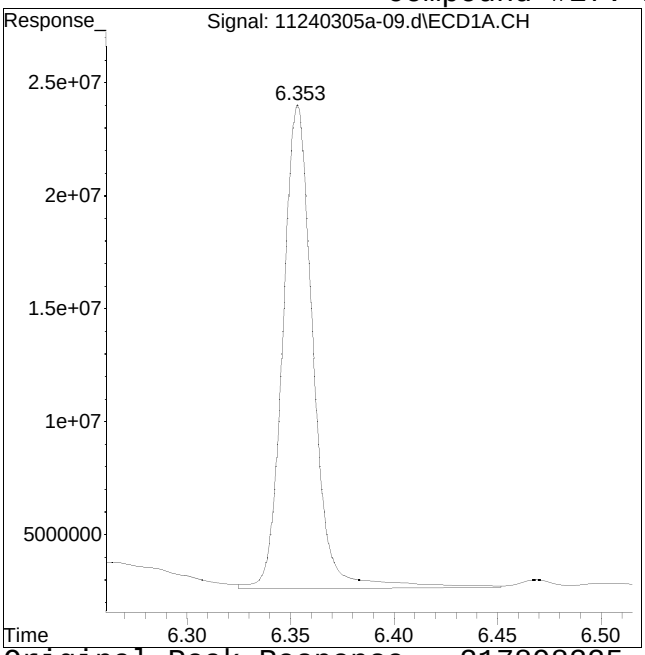


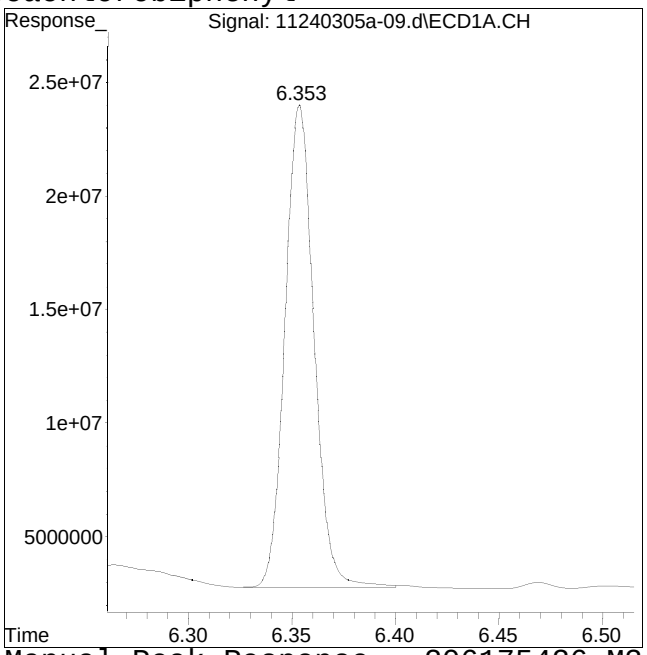
Original Peak Response = 311407237 Manual Peak Response = 310050884 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-09.d Operator : PEST11:mmg
Date Inj'd : 3/5/2024 9:03 am Instrument : Pest 11
Sample : WG1892124-3,42,, Quant Date : 3/5/2024 10:54 am

Compound #27: Decachlorobiphenyl



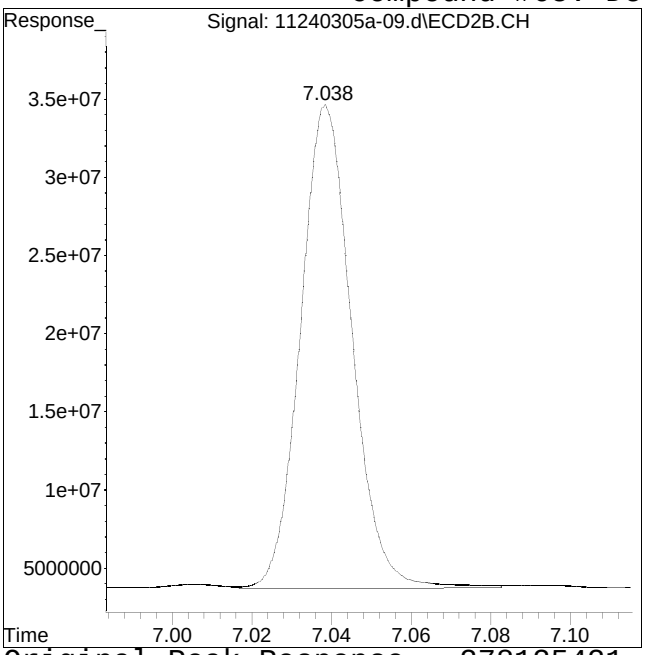


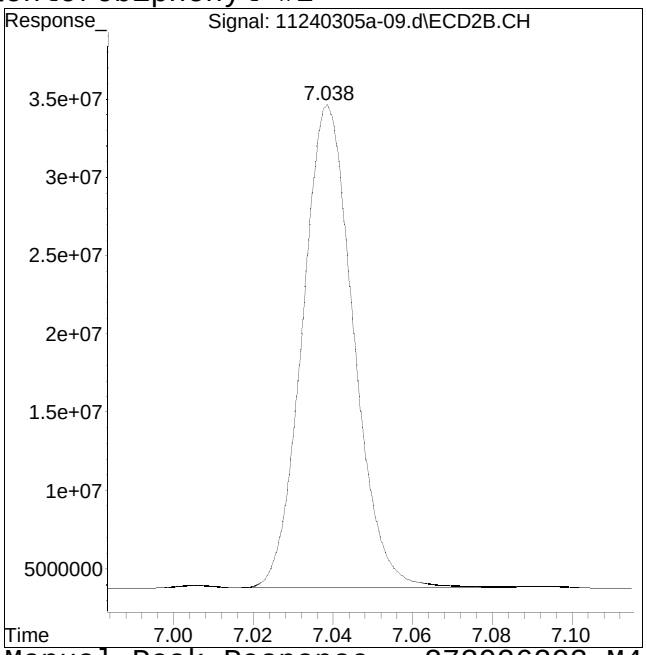
Original Peak Response = 217898325 Manual Peak Response = 206175426 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-09.d Operator : PEST11:mmg
Date Inj'd : 3/5/2024 9:03 am Instrument : Pest 11
Sample : WG1892124-3,42,, Quant Date : 3/5/2024 10:54 am

Compound #65: Decachlorobiphenyl #2





Original Peak Response = 278125421 Manual Peak Response = 273926293 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240305A\
Data File : 11240305a-14.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 05 Mar 2024 10:02 am
Operator : PEST11:mmg
Sample : WG1892124-4,42,, ms
Misc : wg1892239,WG1892124,ical20697
ALS Vial : 14 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 05 11:17:59 2024
Quant Method : I:\PEST\Pest11\2024\240305A\pest11_12_19_23_ugL_ICAL20697.M
Quant Title : pest
QLast Update : Tue Mar 05 08:15:23 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest11\2024\240305A\11240305a-03.d
Sub List : LCS_MS - spk only

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards							
1) i	1-br-2-nb_Pe	1.353	1.453	135.9E6	208.7E6	25.000M4	25.000M3
	Standard Area 1 : #1 = 83711596				Recovery = 162.36%		
	Standard Area 1 : #2 = 125546766				Recovery = 166.22%		
System Monitoring Compounds							
2) s	2,4,5,6-Tetr	1.703	1.951	143.6E6	223.3E6	27.578M4	26.872M4
	Spiked Amount 50.000	Range 30 - 150		Recovery =	55.16%	53.74%	
27) s	Decachlorobi	6.354	7.039	151.1E6	196.4E6	30.489M3	30.029M4
	Spiked Amount 50.000	Range 30 - 150		Recovery =	60.98%	60.06%	
Target Compounds							
4) t	alpha-BHC	2.022	2.385	214.8E6	353.0E6	29.536M3	30.460M4
5) t	gamma-BHC (l	2.230	2.684	201.8E6	327.4E6	29.052	29.825M4
6) t	beta-BHC	2.287	2.751	93346584	150.9E6	30.081M3	32.148M4
7) t	delta-BHC	2.418	3.030	160.9E6	254.4E6	22.861M3	23.281M4
8) t	Heptachlor	2.584	3.098	199.1E6	315.3E6	27.973M4	27.849M4
9) t	Aldrin	2.832	3.430	168.7E6	284.9E6	26.144M4	27.816M3
12) t	Heptachlor E	3.387	4.064	167.4E6	282.1E6	25.714M3	29.263M3
13) t	gamma-Chlord	3.513	4.286	164.6E6	310.8E6	27.738M4	33.698M3
14) t	alpha-Chlord	3.650	4.448	158.3E6	287.2E6	23.478M3	29.680M4
15) t	4,4'-DDE	3.748	4.634	144.6E6	272.8E6	23.614M4	29.000M4
16) t	Endosulfan I	3.788	4.508	152.1E6	267.3E6	23.866M4	28.429M4
17) t	Dieldrin	4.052	4.788	163.4E6	301.5E6	25.746M3	32.051M4
18) t	Endrin	4.306	5.077	154.8E6	284.4E6	24.014M4	30.157M3
19) t	4,4'-DDD	4.412	5.191	119.1E6	236.3E6	23.468M4	31.568M3
20) t	Endosulfan I	4.541	5.270	138.7E6	255.1E6	23.312M4	30.027M4
21) t	4,4'-DDT	4.698	5.462	132.1E6	260.1E6	21.861M3	30.393M4
22) t	Endrin Aldeh	4.949	5.559	100.7E6	188.0E6	20.837M4	27.589M3

Data Path : I:\PEST\Pest11\2024\240305A\
Data File : 11240305a-14.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 05 Mar 2024 10:02 am
Operator : PEST11:mmg
Sample : WG1892124-4,42,, ms
Misc : wg1892239,WG1892124,ical20697
ALS Vial : 14 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 05 11:17:59 2024
Quant Method : I:\PEST\Pest11\2024\240305A\pest11_12_19_23_ugL_ICAL20697.M
Quant Title : pest
QLast Update : Tue Mar 05 08:15:23 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest11\2024\240305A\11240305a-03.d
Sub List : LCS_MS - spk only

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
23) t Methoxychlor	5.177	6.014	86997461	139.2E6	26.709M3	32.165M4
25) t Endosulfan S	5.336	5.784	148.0E6	242.4E6	25.303M3	29.224M3
26) t Endrin Keton	5.561	6.192	200.5E6	286.2E6	30.360M3	32.093M4
Sum chlordane-1			0	0	N.D.	N.D.
Average chlordane-1					0.000	0.000
Sum toxaphene-2			0	0	N.D.	N.D.
Average toxaphene-2					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument						
Sum toxaphene-2			0	0	N.D.	N.D.
Average toxaphene-2					0.000	0.000

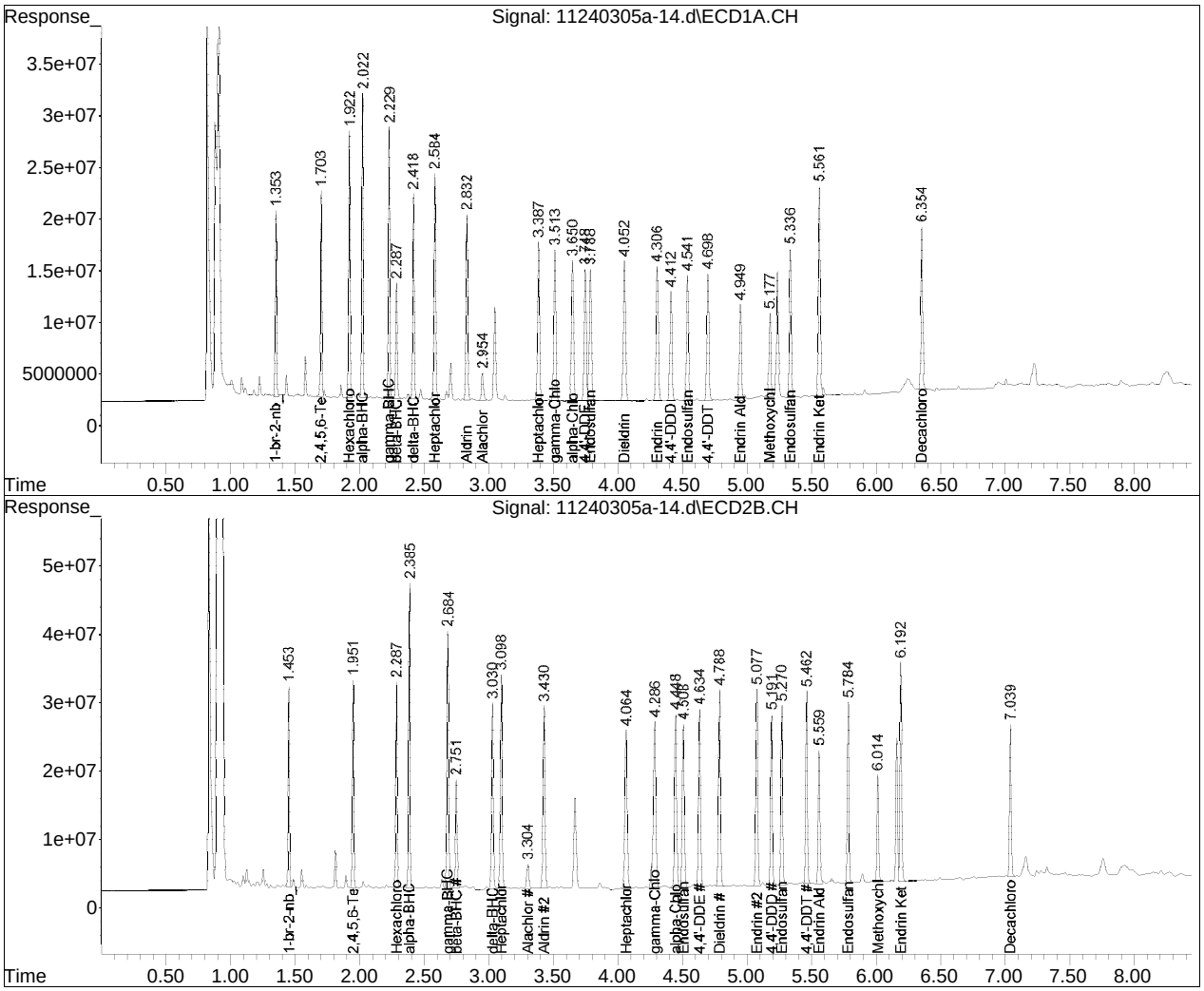
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : LCS_MS - spk only1\2024\240305A\11240305a-03.d••

Data Path : I:\PEST\Pest11\2024\240305A\
Data File : 11240305a-14.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 05 Mar 2024 10:02 am
Operator : PEST11:mmg
Sample : WG1892124-4,42,, ms
Misc : wg1892239,WG1892124,ical20697
ALS Vial : 14 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 05 11:17:59 2024
Quant Method : I:\PEST\Pest11\2024\240305A\pest11_12_19_23_ugL_ICAL20697.M
Quant Title : pest
QLast Update : Tue Mar 05 08:15:23 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

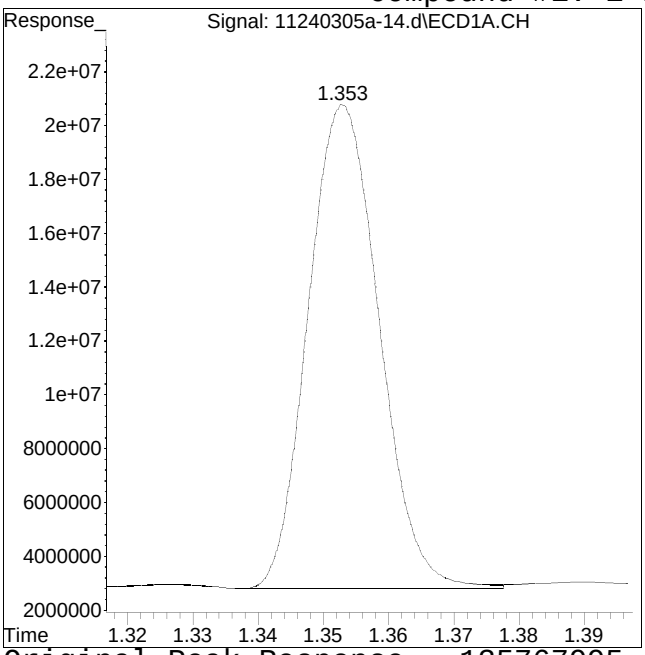
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

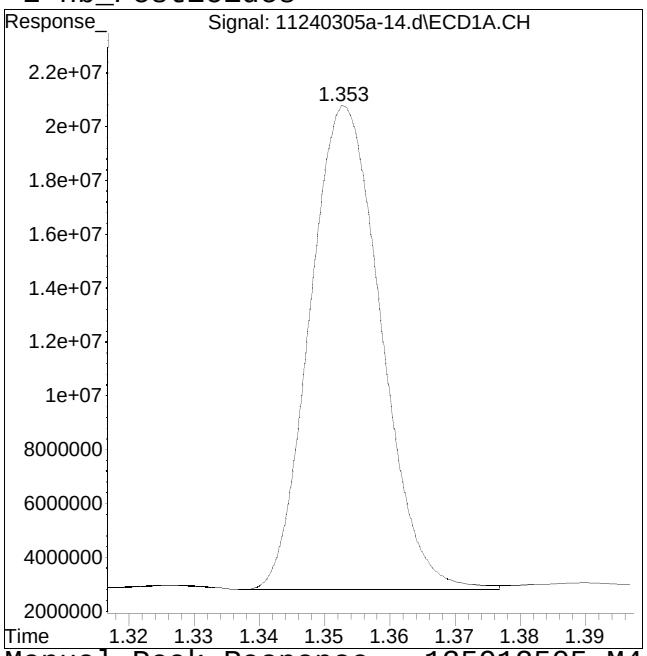


Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-14.d Operator : PEST11:mmg
Date Inj'd : 3/5/2024 10:02 am Instrument : Pest 11
Sample : WG1892124-4,42,, ms Quant Date : 3/5/2024 10:54 am

Compound #1: 1-br-2-nb_Pesticides



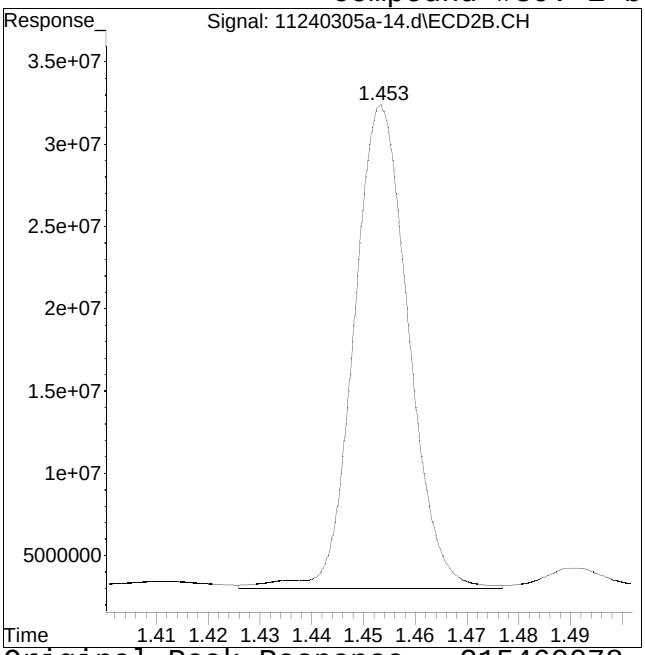


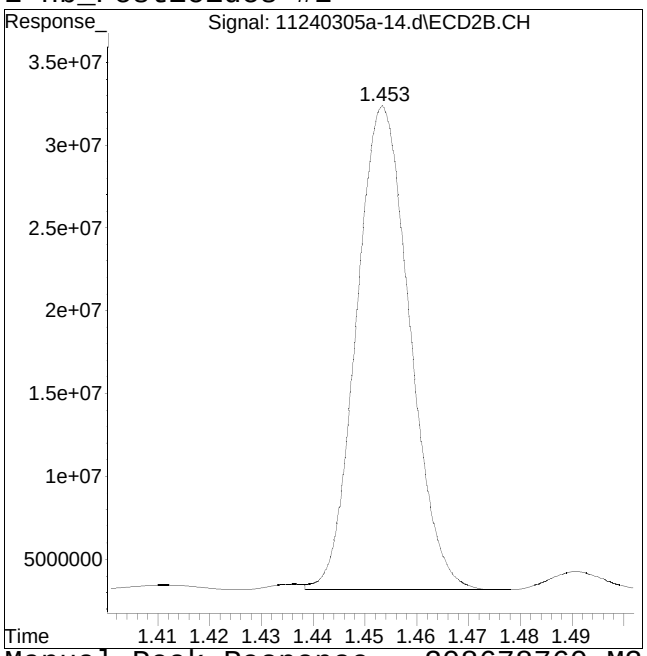
Original Peak Response = 135767995 Manual Peak Response = 135912505 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-14.d Operator : PEST11:mmg
Date Inj'd : 3/5/2024 10:02 am Instrument : Pest 11
Sample : WG1892124-4,42,, ms Quant Date : 3/5/2024 10:54 am

Compound #39: 1-br-2-nb_Pesticides #2



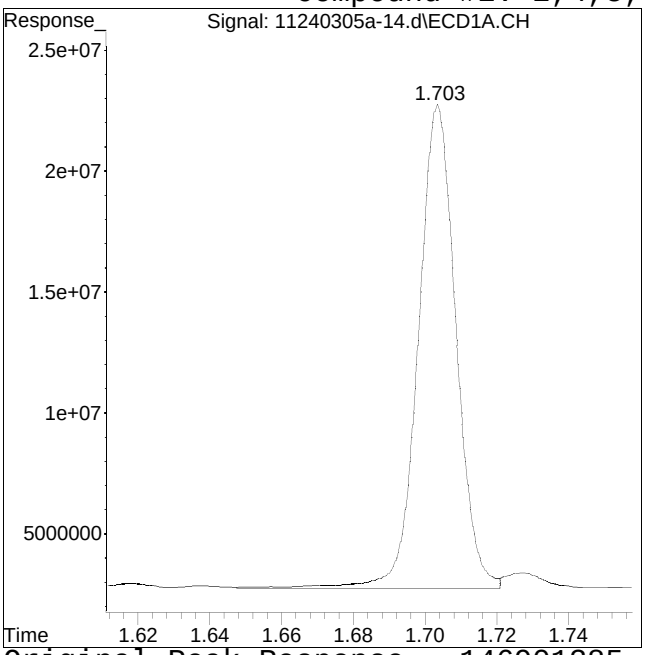


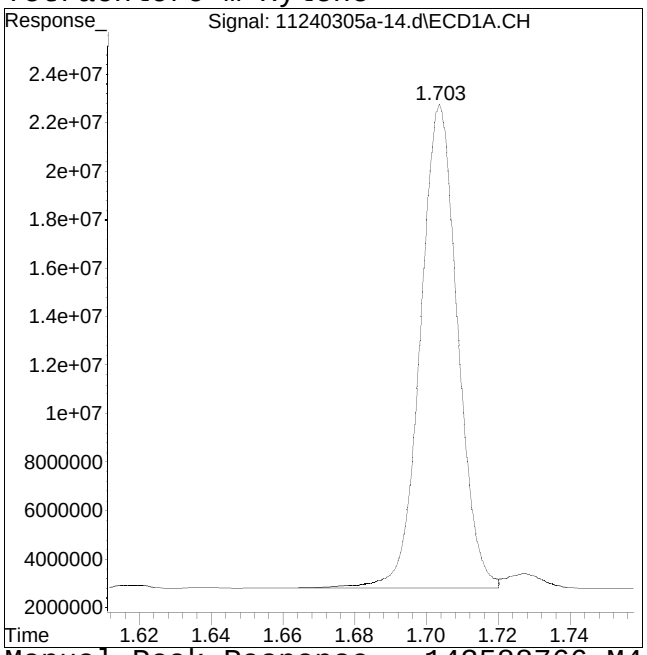
Original Peak Response = 215460078 Manual Peak Response = 208678760 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-14.d Operator : PEST11:mmg
Date Inj'd : 3/5/2024 10:02 am Instrument : Pest 11
Sample : WG1892124-4,42,, ms Quant Date : 3/5/2024 10:54 am

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



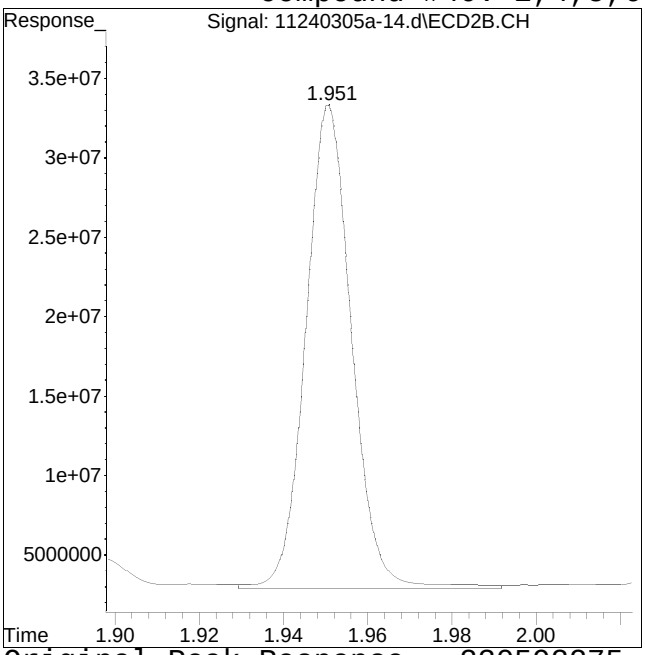


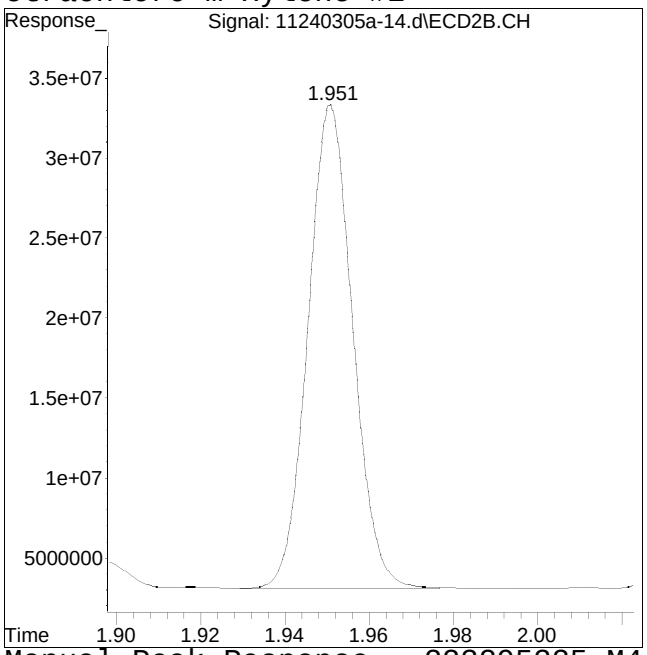
Original Peak Response = 146901385 Manual Peak Response = 143588766 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-14.d Operator : PEST11:mmg
Date Inj'd : 3/5/2024 10:02 am Instrument : Pest 11
Sample : WG1892124-4,42,, ms Quant Date : 3/5/2024 10:54 am

Compound #40: 2,4,5,6-Tetrachloro-m-xylene #2



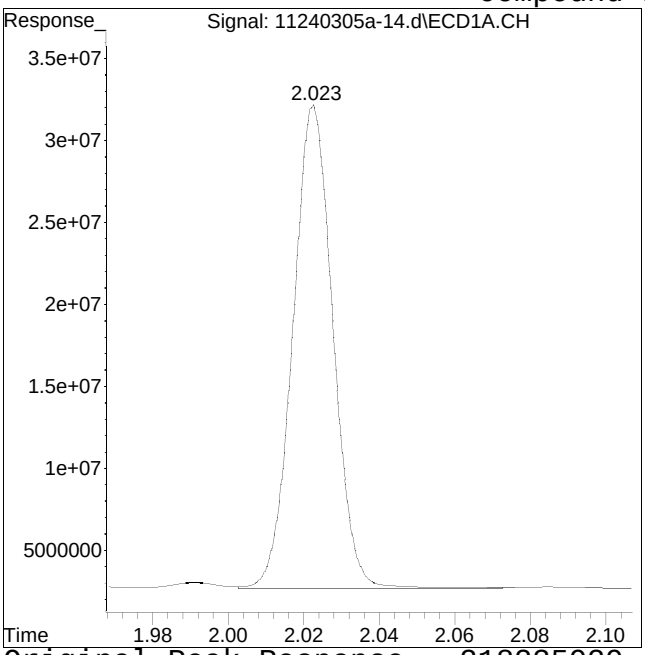


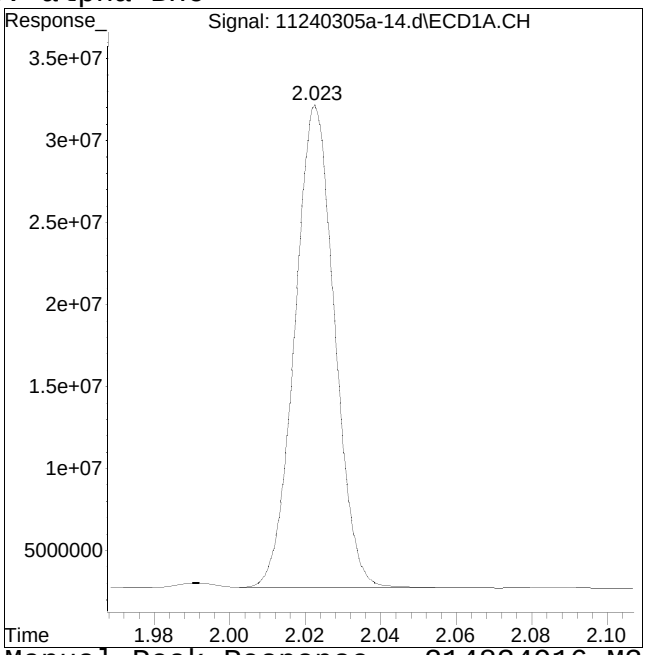
Original Peak Response = 230592275 Manual Peak Response = 223295325 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-14.d Operator : PEST11:mmg
Date Inj'd : 3/5/2024 10:02 am Instrument : Pest 11
Sample : WG1892124-4,42,, ms Quant Date : 3/5/2024 10:54 am

Compound #4: alpha-BHC



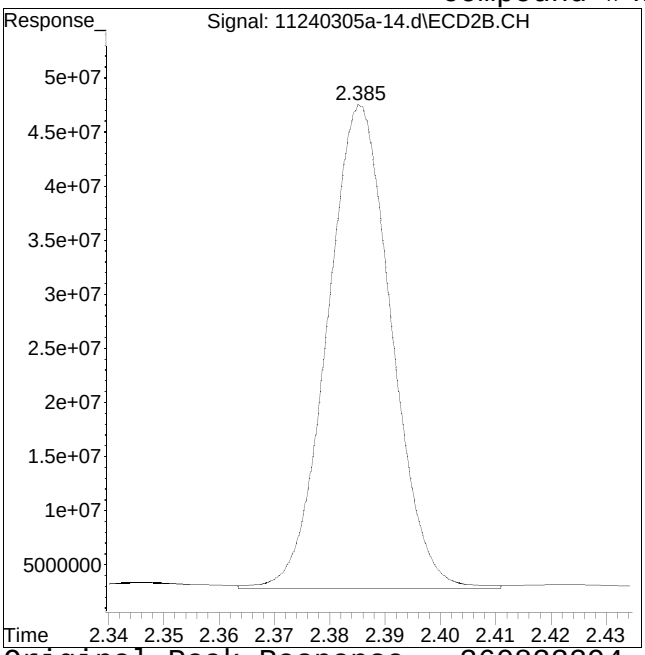


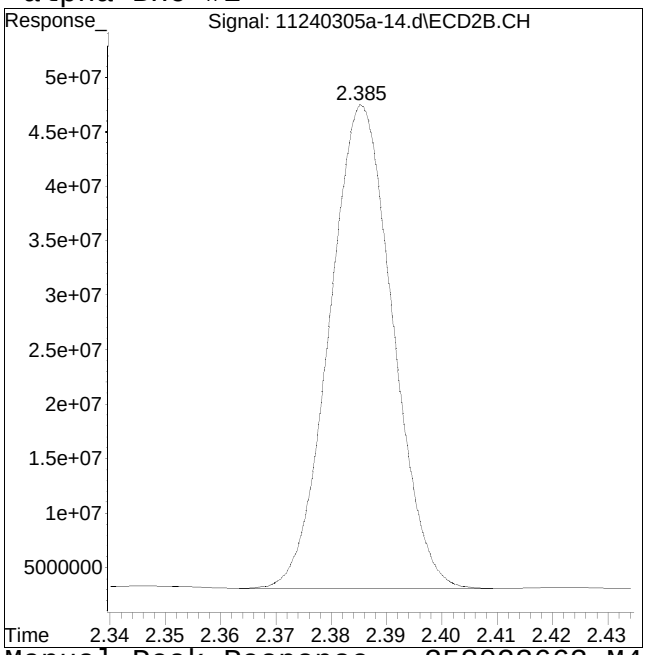
Original Peak Response = 218235929 Manual Peak Response = 214834916 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-14.d Operator : PEST11:mmg
Date Inj'd : 3/5/2024 10:02 am Instrument : Pest 11
Sample : WG1892124-4,42,, ms Quant Date : 3/5/2024 10:54 am

Compound #42: alpha-BHC #2



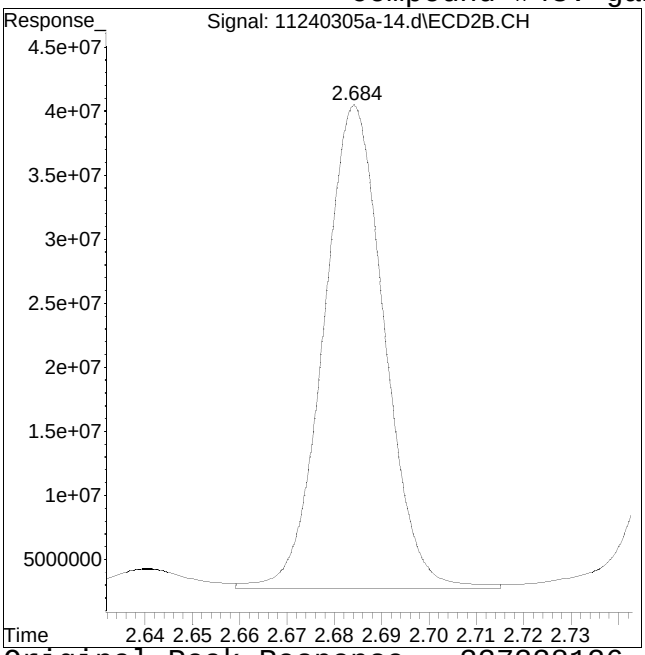


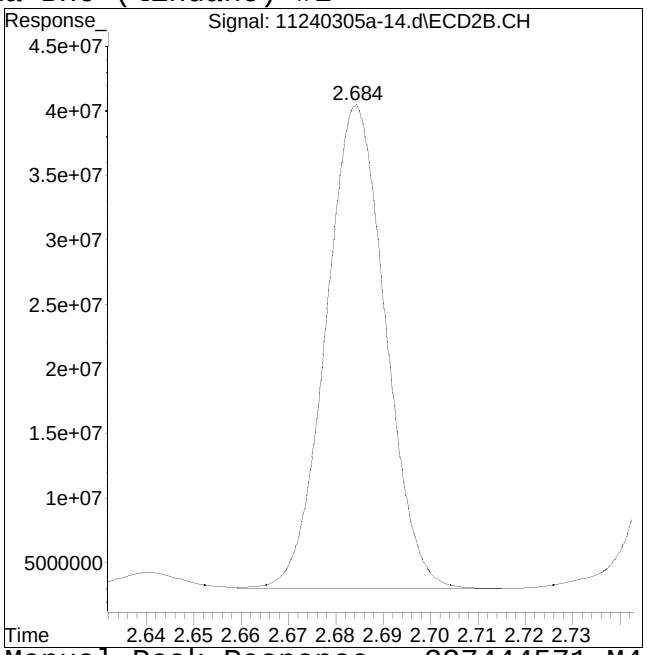
Original Peak Response = 360833394 Manual Peak Response = 353023663 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-14.d Operator : PEST11:mmg
Date Inj'd : 3/5/2024 10:02 am Instrument : Pest 11
Sample : WG1892124-4,42,, ms Quant Date : 3/5/2024 10:54 am

Compound #43: gamma-BHC (lindane) #2



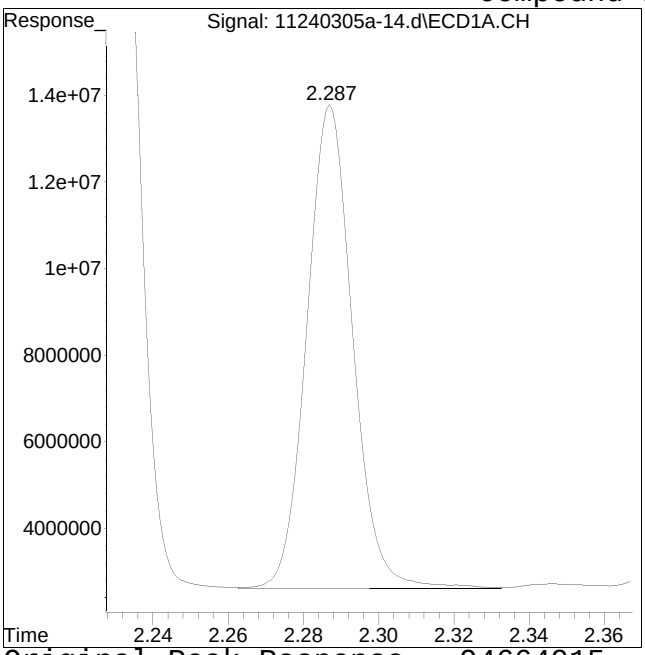


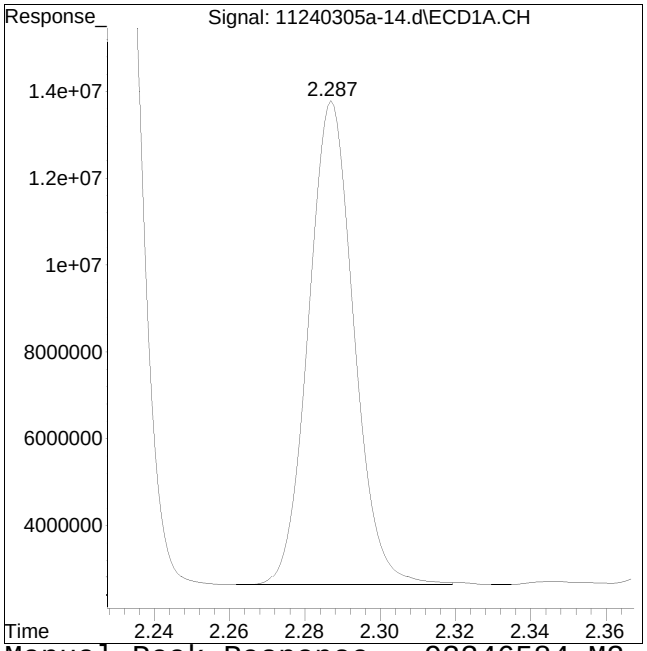
Original Peak Response = 337338126 Manual Peak Response = 327444571 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-14.d Operator : PEST11:mmg
Date Inj'd : 3/5/2024 10:02 am Instrument : Pest 11
Sample : WG1892124-4,42,, ms Quant Date : 3/5/2024 10:54 am

Compound #6: beta-BHC



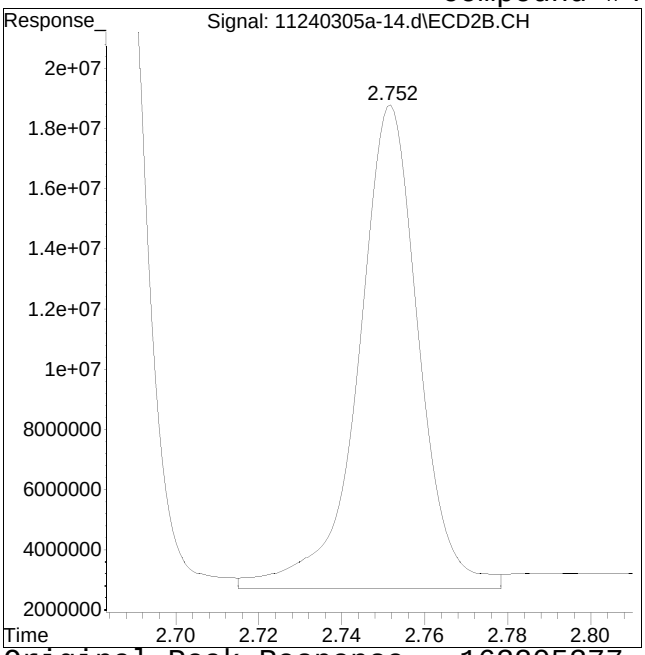


Original Peak Response = 94664915 Manual Peak Response = 93346584 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

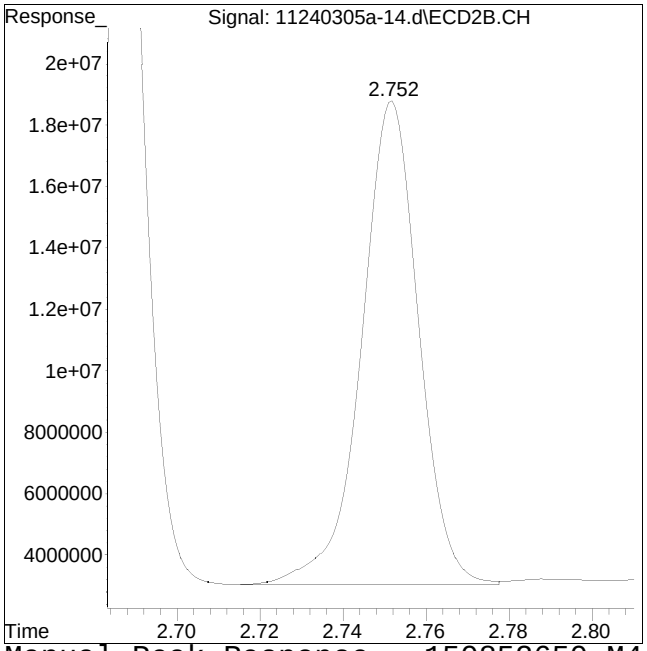
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-14.d Operator : PEST11:mmg
Date Inj'd : 3/5/2024 10:02 am Instrument : Pest 11
Sample : WG1892124-4,42,, ms Quant Date : 3/5/2024 10:54 am

Compound #44: beta-BHC #2



Original Peak Response = 163205377



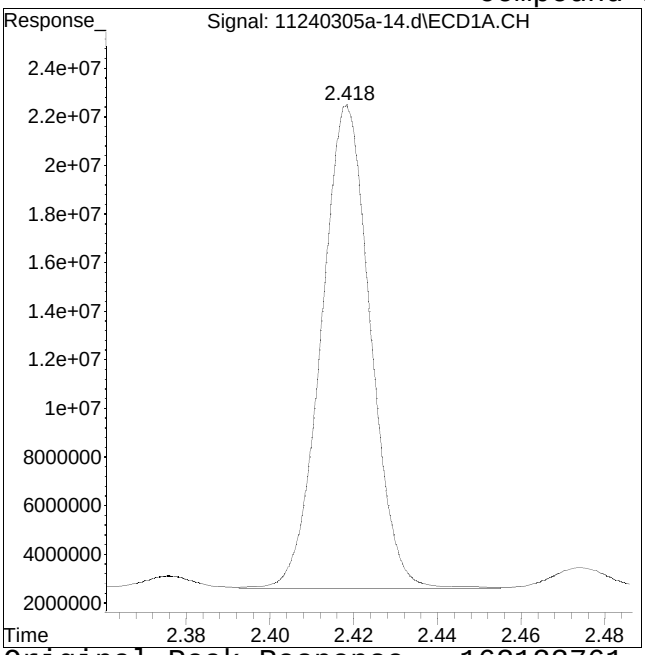
Manual Peak Response = 150852650 M4

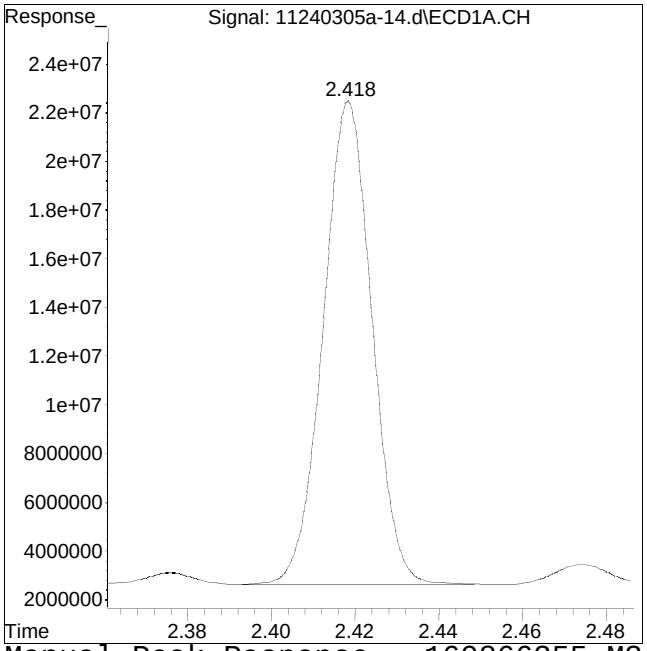
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-14.d Operator : PEST11:mmg
Date Inj'd : 3/5/2024 10:02 am Instrument : Pest 11
Sample : WG1892124-4,42,, ms Quant Date : 3/5/2024 10:54 am

Compound #7: delta-BHC



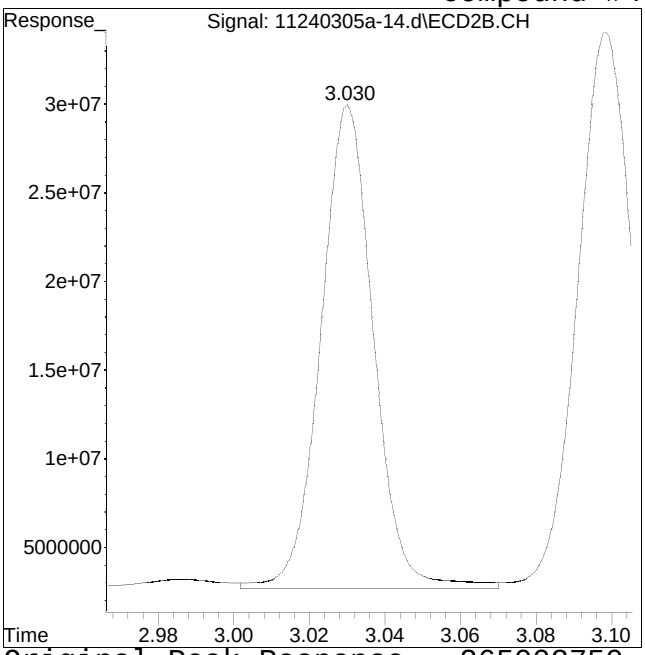


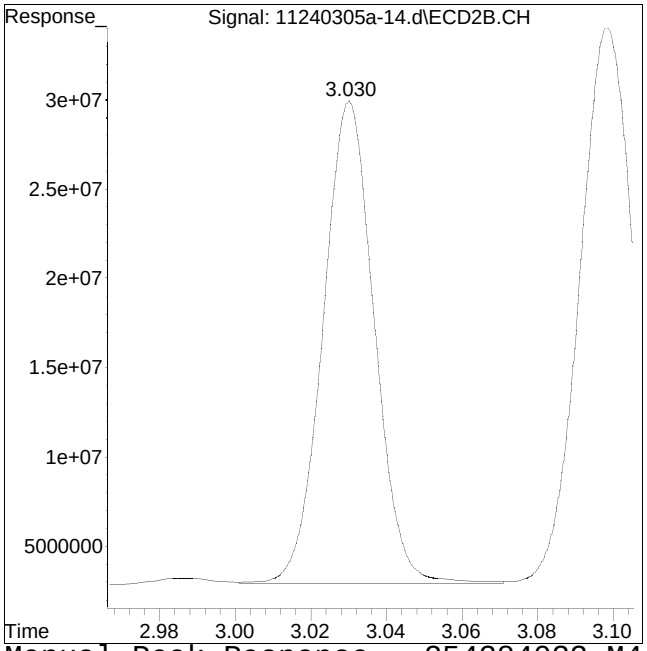
Original Peak Response = 162123761 Manual Peak Response = 160866355 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-14.d Operator : PEST11:mmg
Date Inj'd : 3/5/2024 10:02 am Instrument : Pest 11
Sample : WG1892124-4,42,, ms Quant Date : 3/5/2024 10:54 am

Compound #45: delta-BHC #2



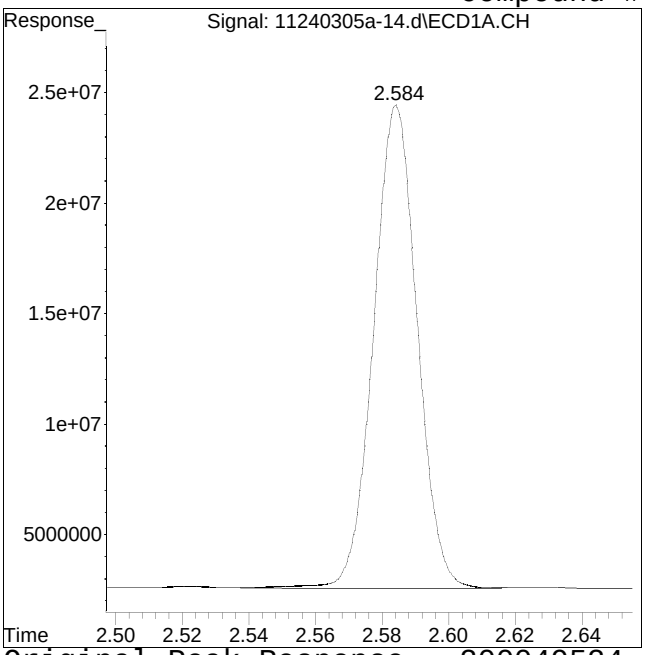


Original Peak Response = 265002750 Manual Peak Response = 254384033 M4
M4 = Poor automated baseline construction.

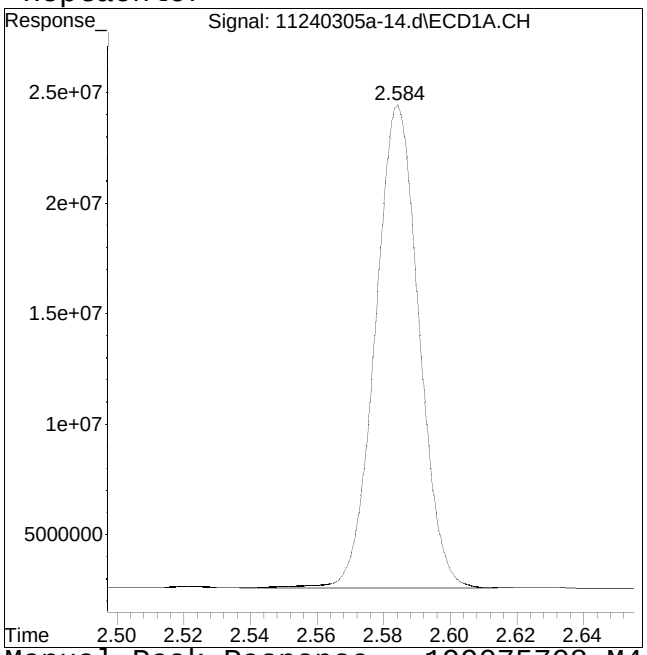
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-14.d Operator : PEST11:mmg
Date Inj'd : 3/5/2024 10:02 am Instrument : Pest 11
Sample : WG1892124-4,42,, ms Quant Date : 3/5/2024 10:54 am

Compound #8: Heptachlor



Original Peak Response = 200049524



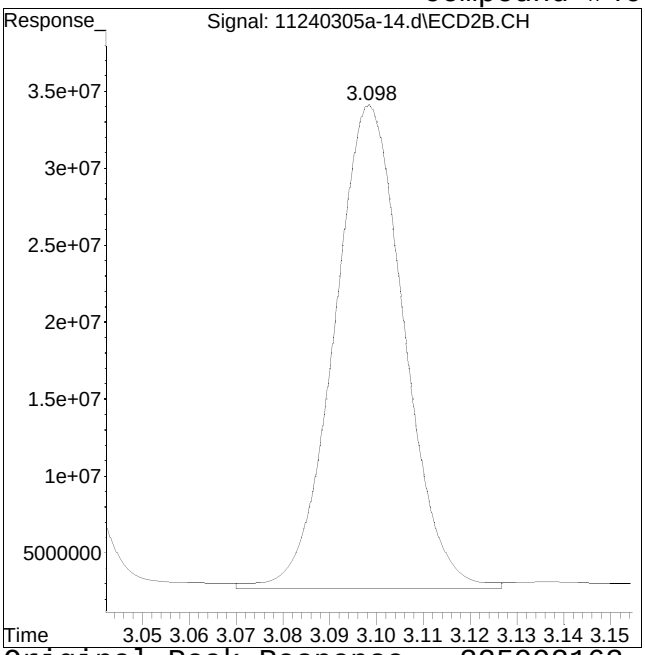
Manual Peak Response = 199075708 M4

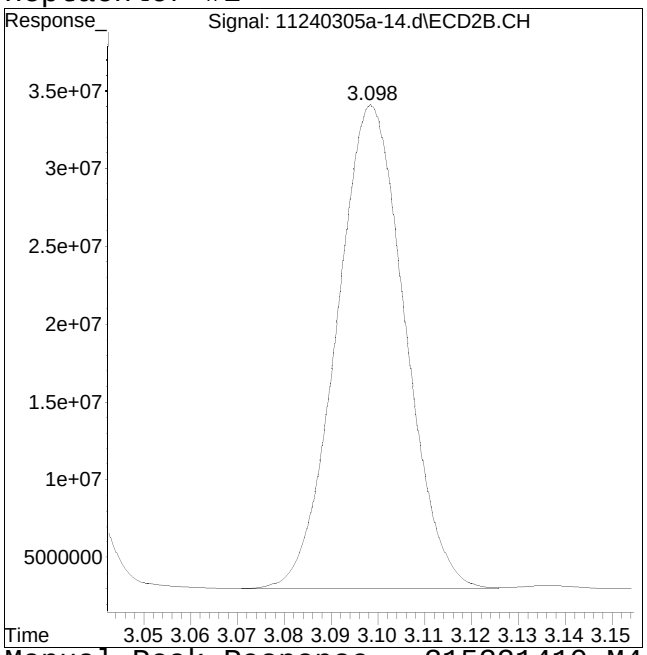
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-14.d Operator : PEST11:mmg
Date Inj'd : 3/5/2024 10:02 am Instrument : Pest 11
Sample : WG1892124-4,42,, ms Quant Date : 3/5/2024 10:54 am

Compound #46: Heptachlor #2



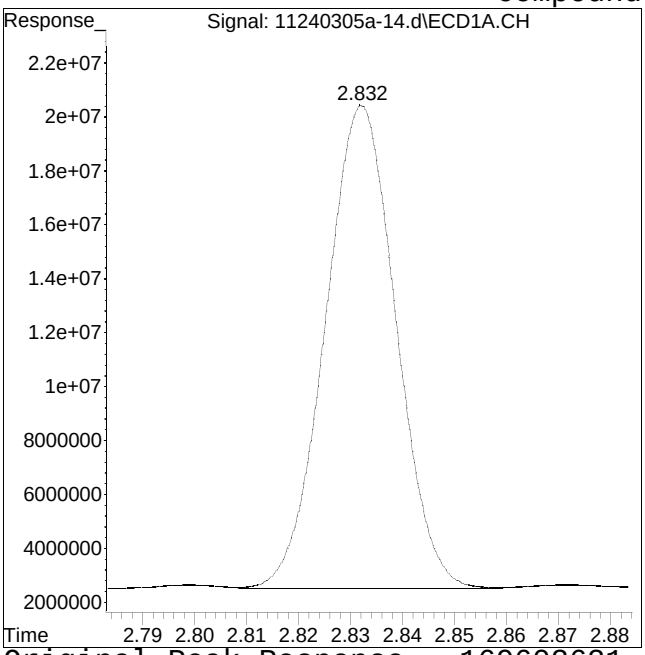


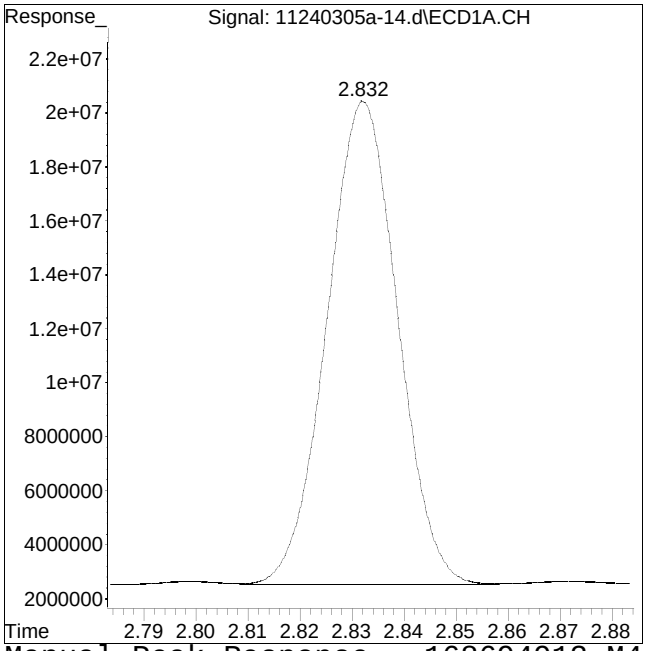
Original Peak Response = 325992163 Manual Peak Response = 315321410 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-14.d Operator : PEST11:mmg
Date Inj'd : 3/5/2024 10:02 am Instrument : Pest 11
Sample : WG1892124-4,42,, ms Quant Date : 3/5/2024 10:54 am

Compound #9: Aldrin



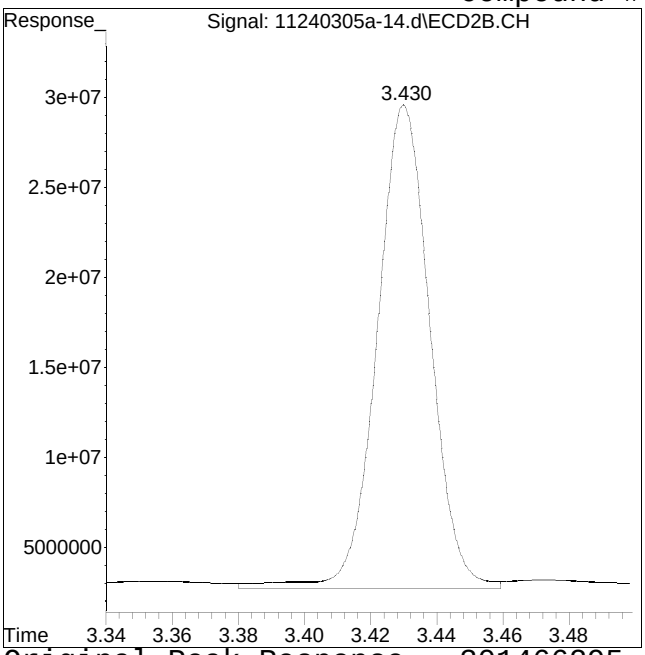


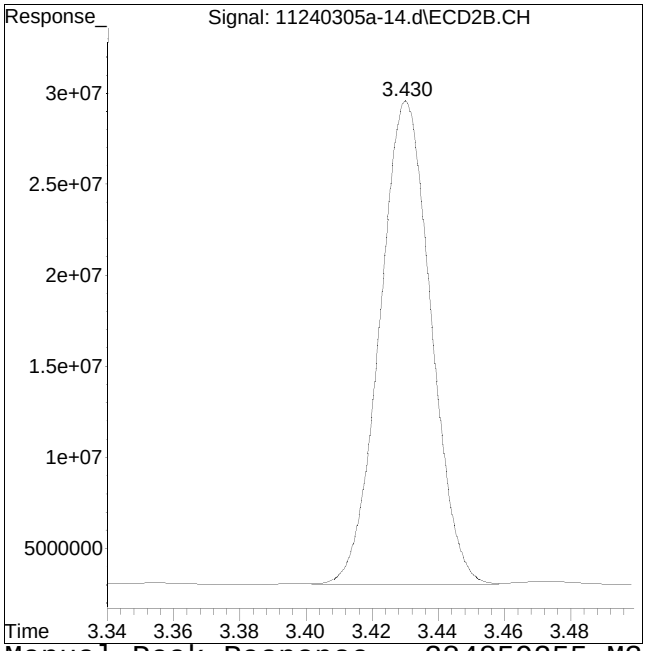
Original Peak Response = 169602621 Manual Peak Response = 168694913 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-14.d Operator : PEST11:mmg
Date Inj'd : 3/5/2024 10:02 am Instrument : Pest 11
Sample : WG1892124-4,42,, ms Quant Date : 3/5/2024 10:54 am

Compound #47: Aldrin #2



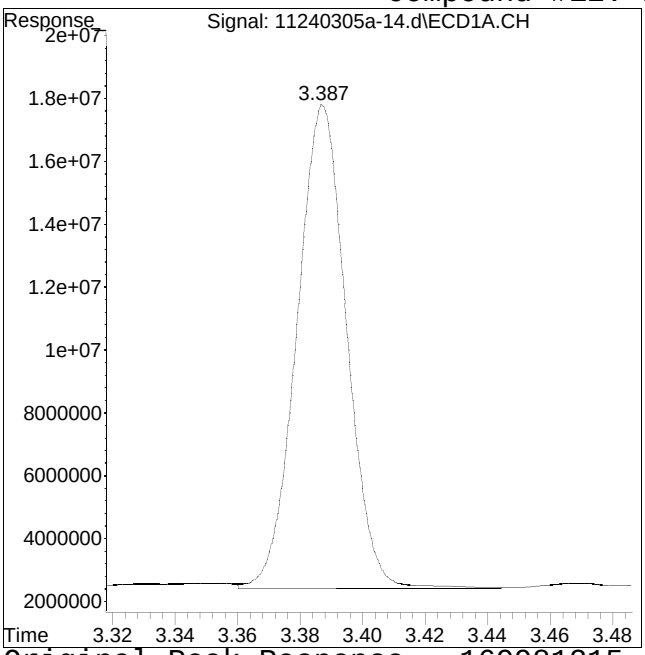


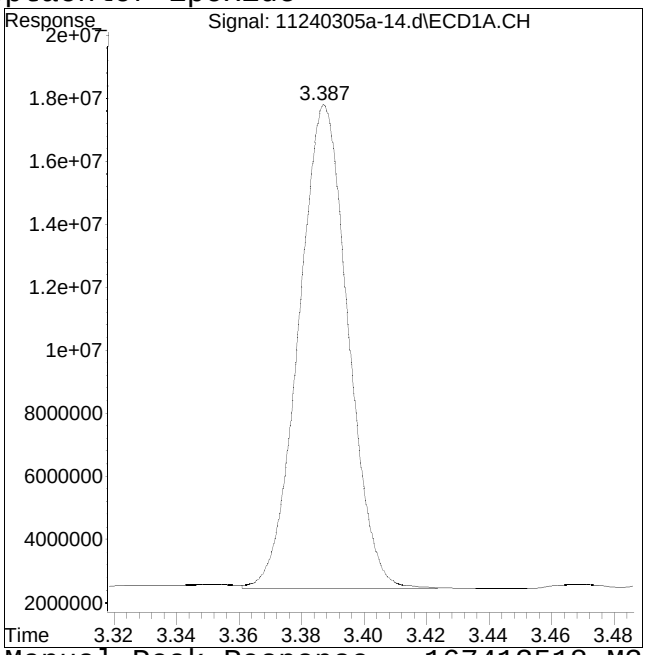
Original Peak Response = 301466295 Manual Peak Response = 284859255 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-14.d Operator : PEST11:mmg
Date Inj'd : 3/5/2024 10:02 am Instrument : Pest 11
Sample : WG1892124-4,42,, ms Quant Date : 3/5/2024 10:54 am

Compound #12: Heptachlor Epoxide



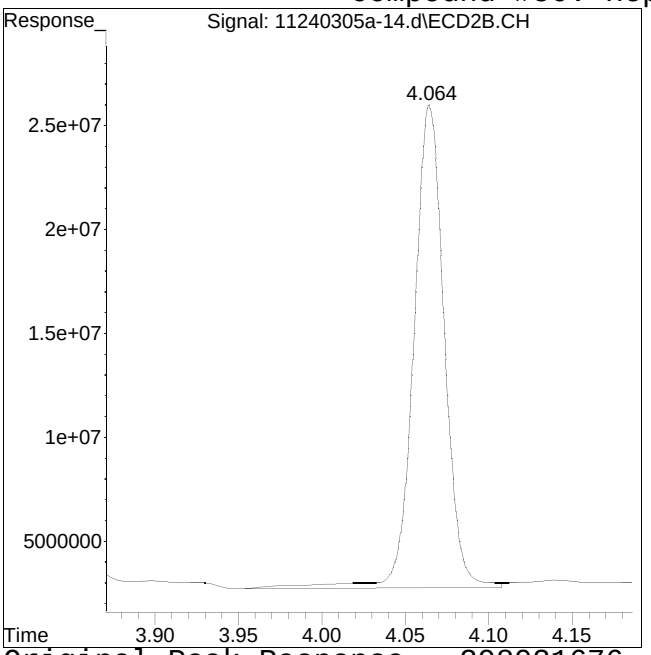


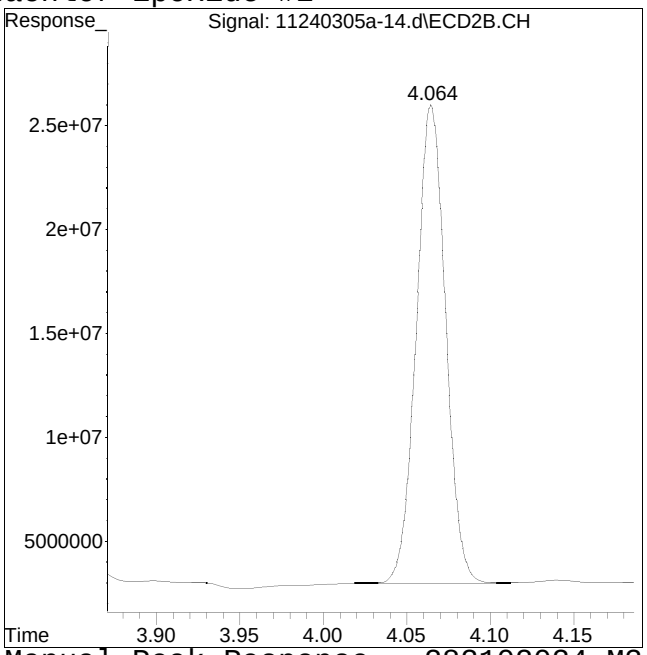
Original Peak Response = 169981215 Manual Peak Response = 167413518 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-14.d Operator : PEST11:mmg
Date Inj'd : 3/5/2024 10:02 am Instrument : Pest 11
Sample : WG1892124-4,42,, ms Quant Date : 3/5/2024 10:54 am

Compound #50: Heptachlor Epoxide #2



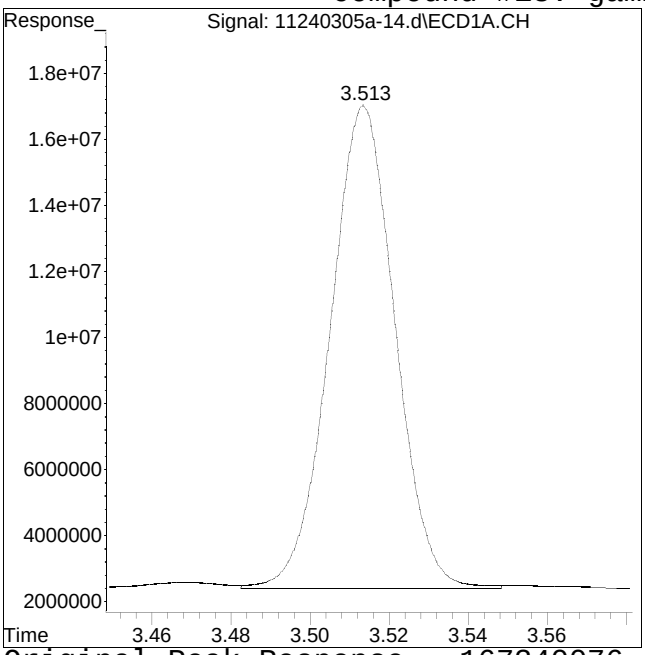


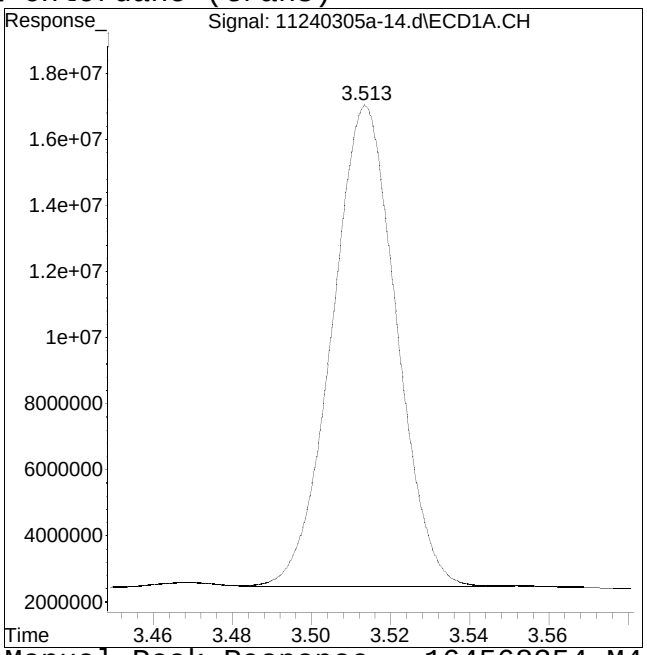
Original Peak Response = 298021676 Manual Peak Response = 282102024 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-14.d Operator : PEST11:mmg
Date Inj'd : 3/5/2024 10:02 am Instrument : Pest 11
Sample : WG1892124-4,42,, ms Quant Date : 3/5/2024 10:54 am

Compound #13: gamma-Chlordane (trans)



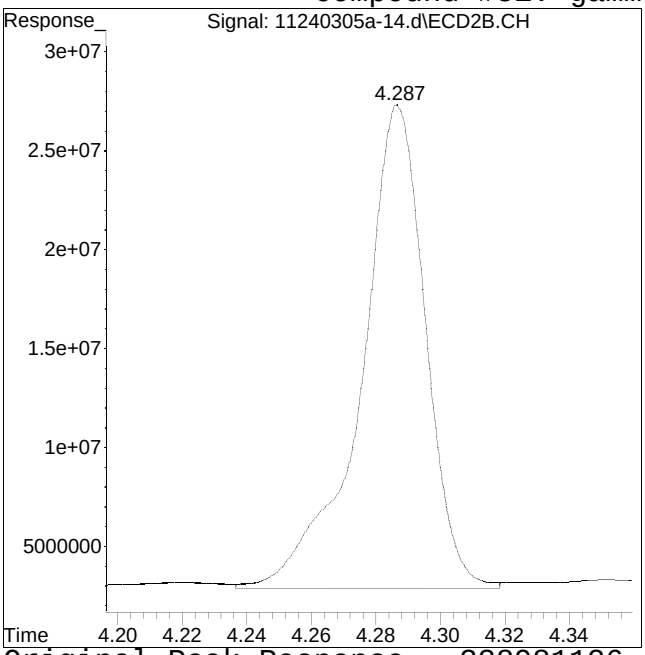


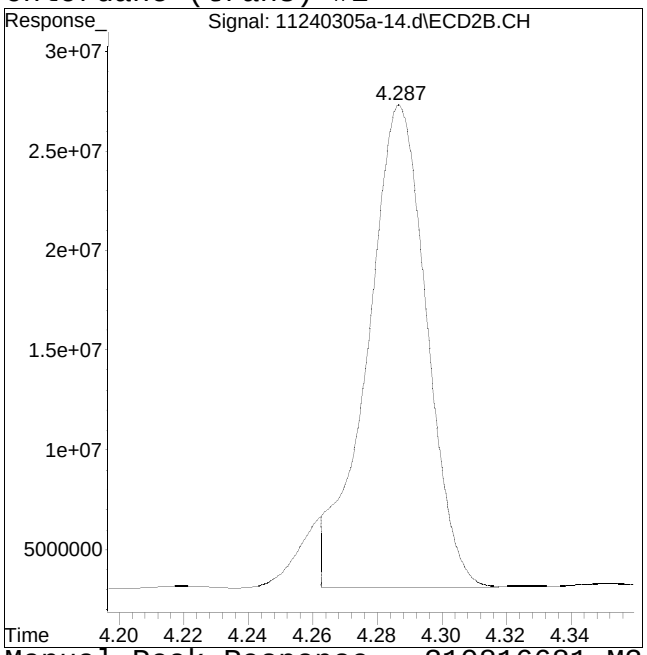
Original Peak Response = 167340076 Manual Peak Response = 164568354 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-14.d Operator : PEST11:mmg
Date Inj'd : 3/5/2024 10:02 am Instrument : Pest 11
Sample : WG1892124-4,42,, ms Quant Date : 3/5/2024 10:54 am

Compound #51: gamma-Chlordane (trans) #2



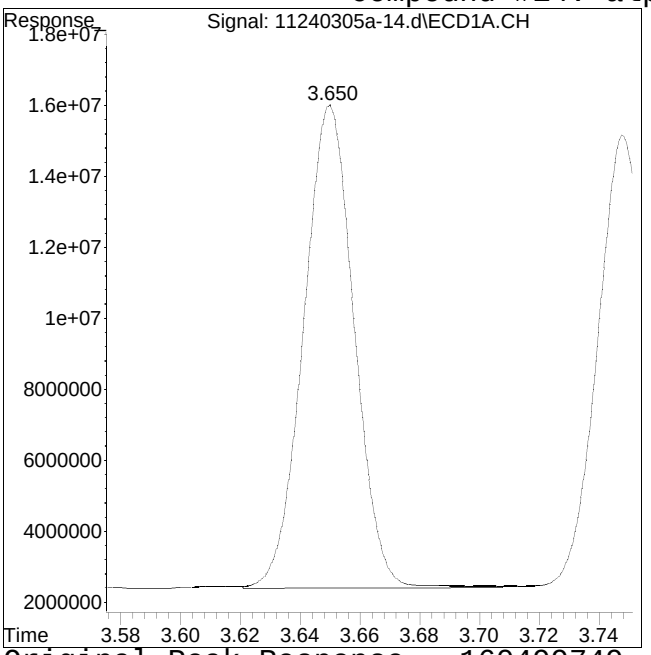


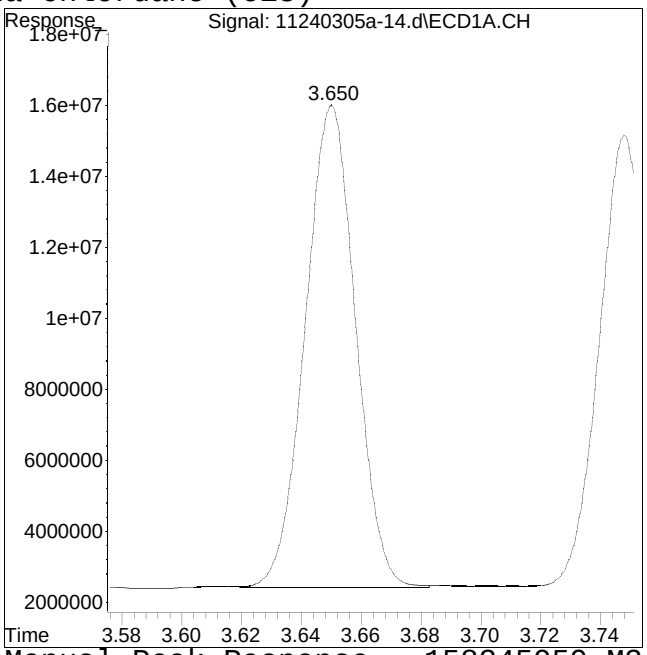
Original Peak Response = 338981126 Manual Peak Response = 310816681 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-14.d Operator : PEST11:mmg
Date Inj'd : 3/5/2024 10:02 am Instrument : Pest 11
Sample : WG1892124-4,42,, ms Quant Date : 3/5/2024 10:54 am

Compound #14: alpha-Chlordane (cis)



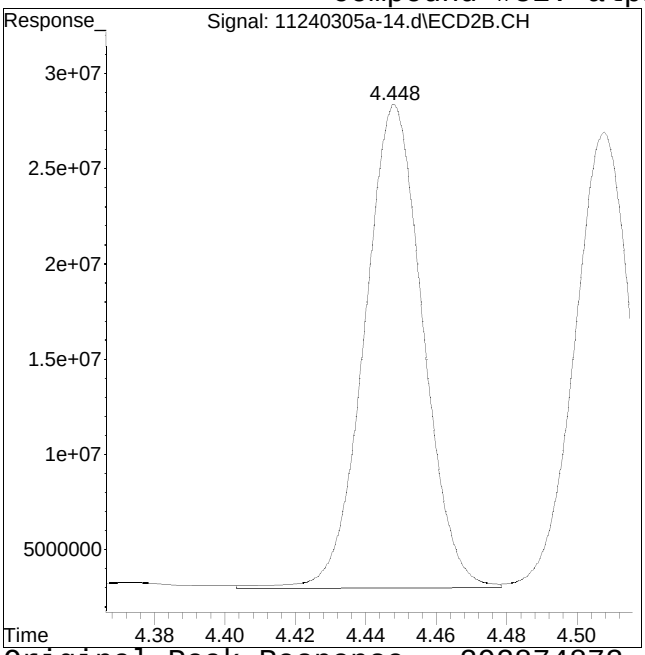


Original Peak Response = 160499749 Manual Peak Response = 158345959 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

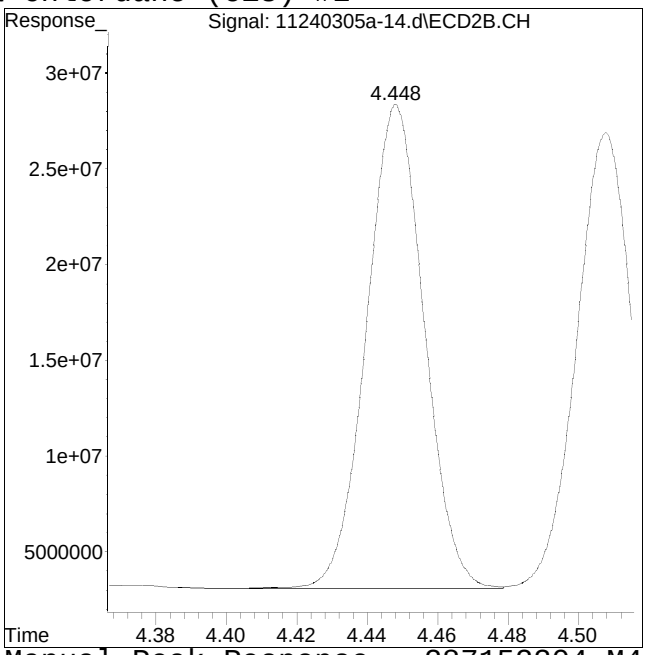
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-14.d Operator : PEST11:mmg
Date Inj'd : 3/5/2024 10:02 am Instrument : Pest 11
Sample : WG1892124-4,42,, ms Quant Date : 3/5/2024 10:54 am

Compound #52: alpha-Chlordane (cis) #2



Original Peak Response = 292874873



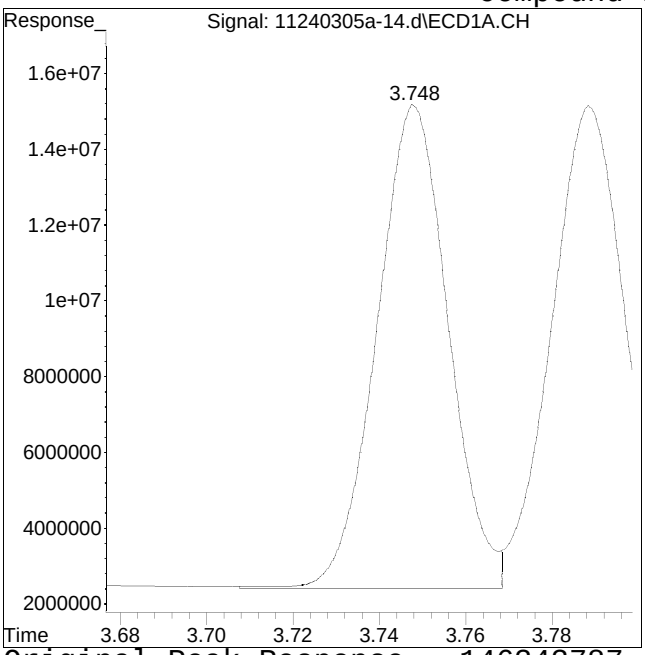
Manual Peak Response = 287152304 M4

M4 = Poor automated baseline construction.

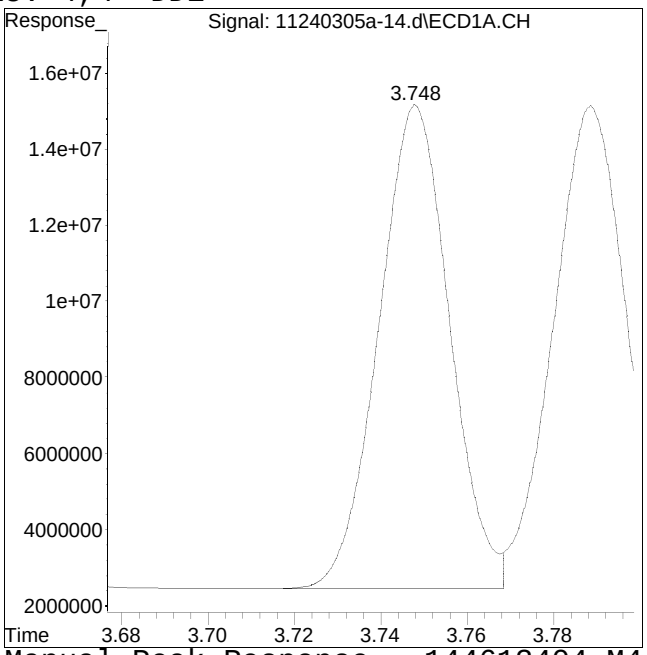
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-14.d Operator : PEST11:mmg
Date Inj'd : 3/5/2024 10:02 am Instrument : Pest 11
Sample : WG1892124-4,42,, ms Quant Date : 3/5/2024 10:54 am

Compound #15: 4,4'-DDE



Original Peak Response = 146343787



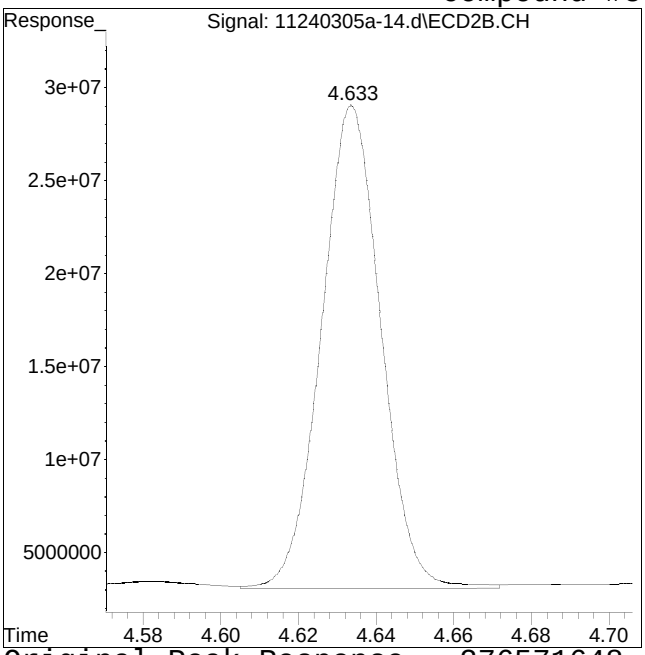
Manual Peak Response = 144613404 M4

M4 = Poor automated baseline construction.

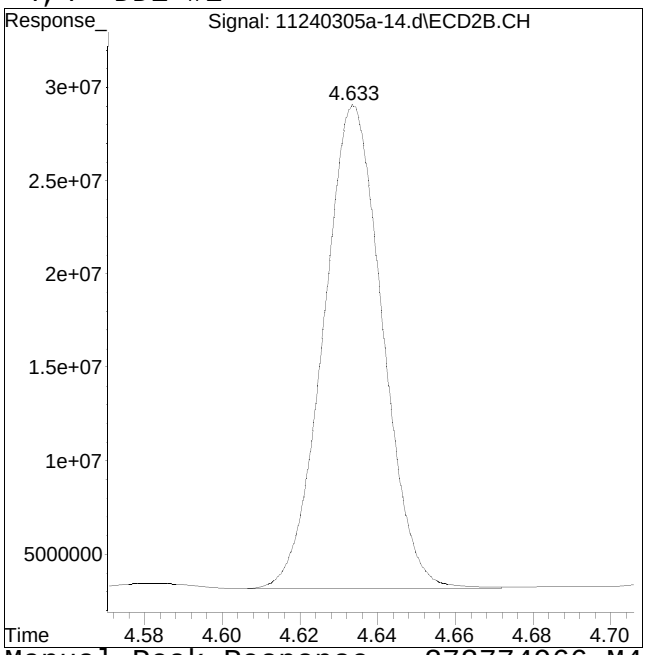
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-14.d Operator : PEST11:mmg
Date Inj'd : 3/5/2024 10:02 am Instrument : Pest 11
Sample : WG1892124-4,42,, ms Quant Date : 3/5/2024 10:54 am

Compound #53: 4,4'-DDE #2



Original Peak Response = 276571648

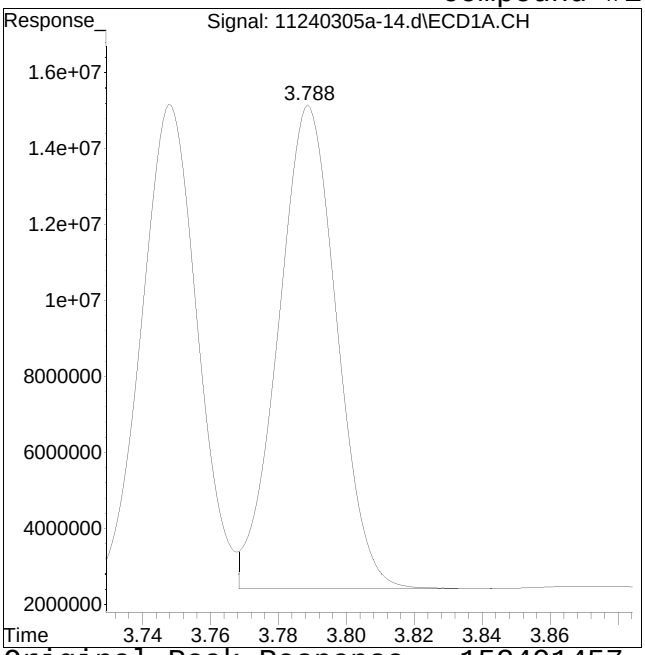


Manual Peak Response = 272774966 M4
M4 = Poor automated baseline construction.

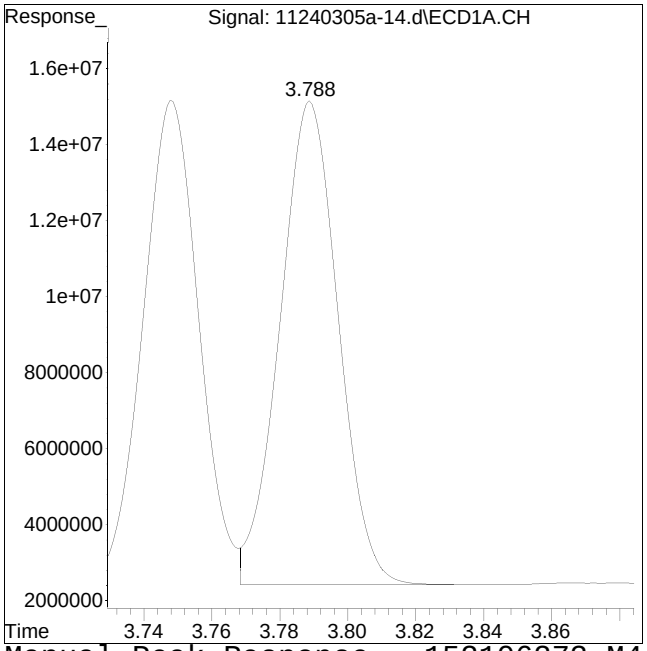
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-14.d Operator : PEST11:mmg
Date Inj'd : 3/5/2024 10:02 am Instrument : Pest 11
Sample : WG1892124-4,42,, ms Quant Date : 3/5/2024 10:54 am

Compound #16: Endosulfan I



Original Peak Response = 152491457



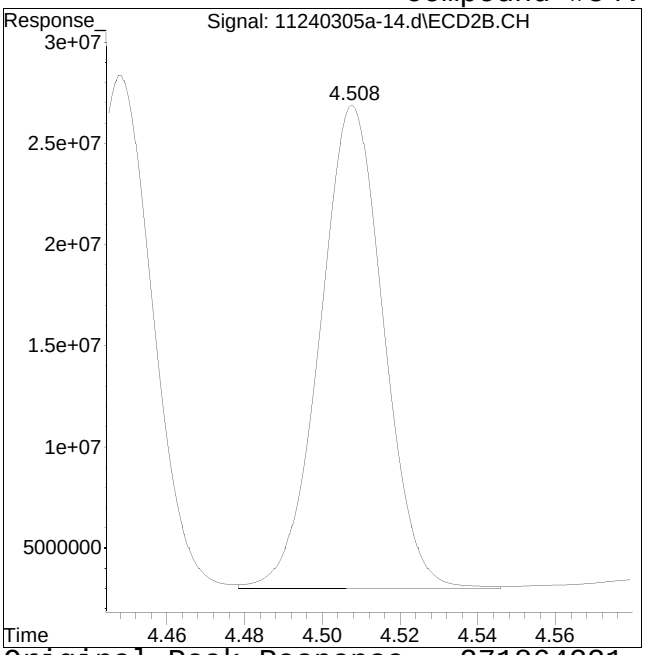
Manual Peak Response = 152106273 M4

M4 = Poor automated baseline construction.

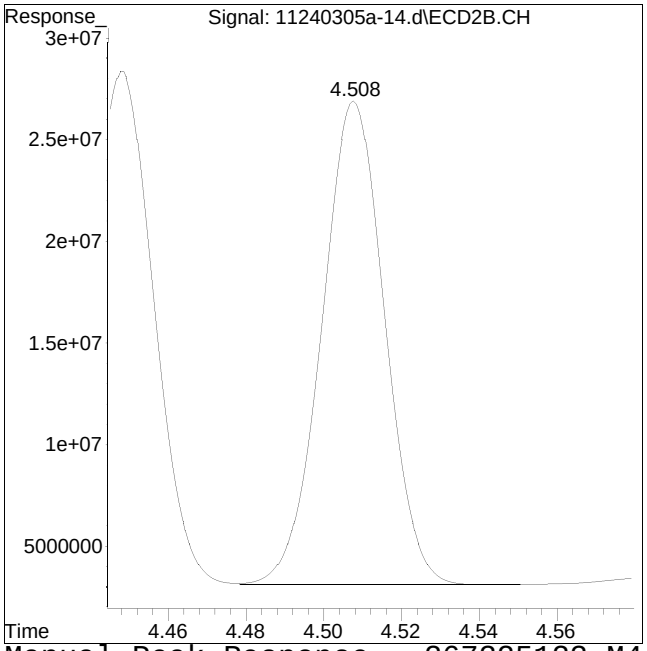
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-14.d Operator : PEST11:mmg
Date Inj'd : 3/5/2024 10:02 am Instrument : Pest 11
Sample : WG1892124-4,42,, ms Quant Date : 3/5/2024 10:54 am

Compound #54: Endosulfan I #2



Original Peak Response = 271864221

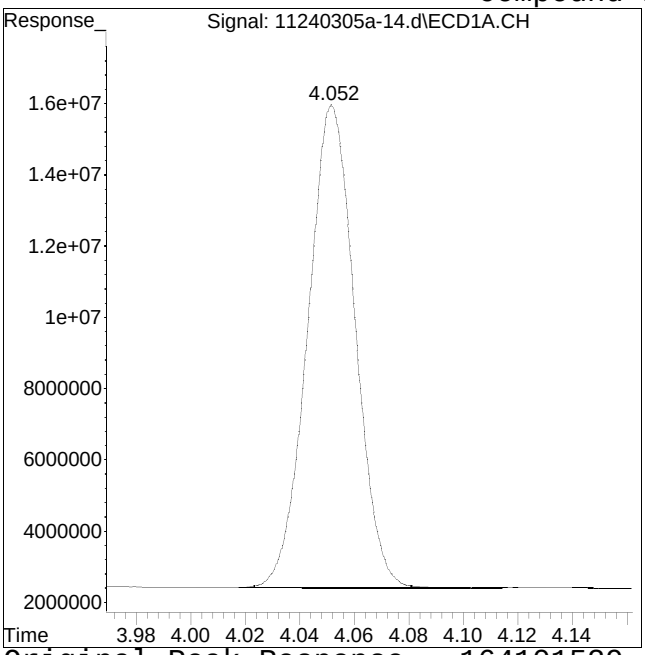


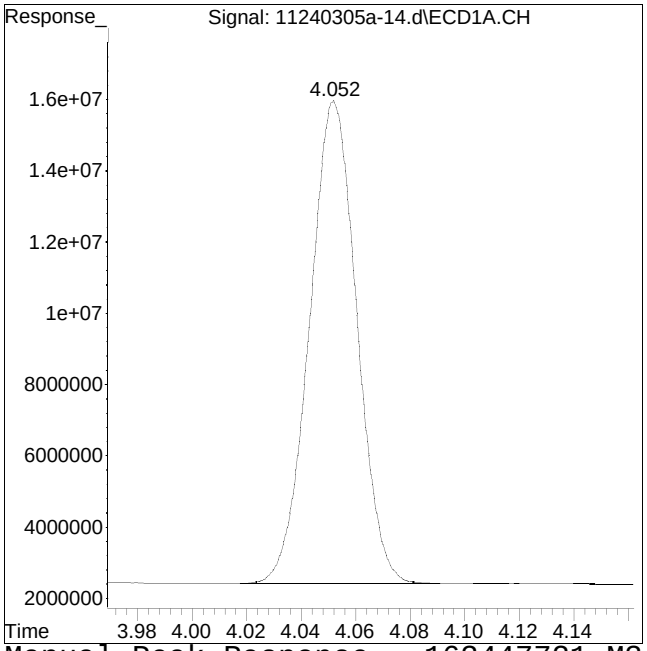
Manual Peak Response = 267325123 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-14.d Operator : PEST11:mmg
Date Inj'd : 3/5/2024 10:02 am Instrument : Pest 11
Sample : WG1892124-4,42,, ms Quant Date : 3/5/2024 10:54 am

Compound #17: Dieldrin



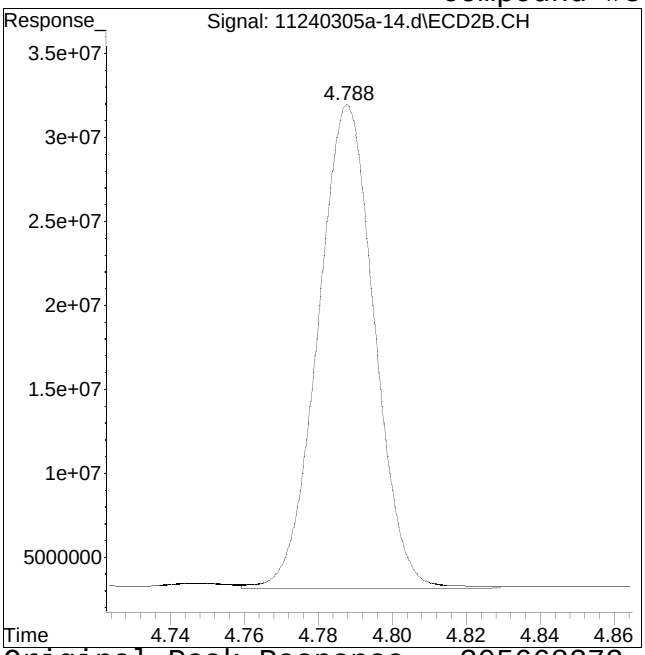


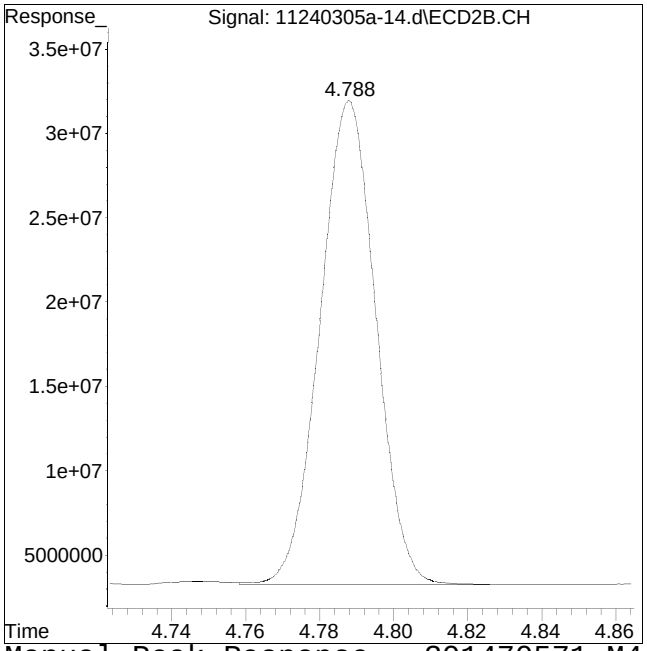
Original Peak Response = 164101529 Manual Peak Response = 163447721 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-14.d Operator : PEST11:mmg
Date Inj'd : 3/5/2024 10:02 am Instrument : Pest 11
Sample : WG1892124-4,42,, ms Quant Date : 3/5/2024 10:54 am

Compound #55: Dieldrin #2



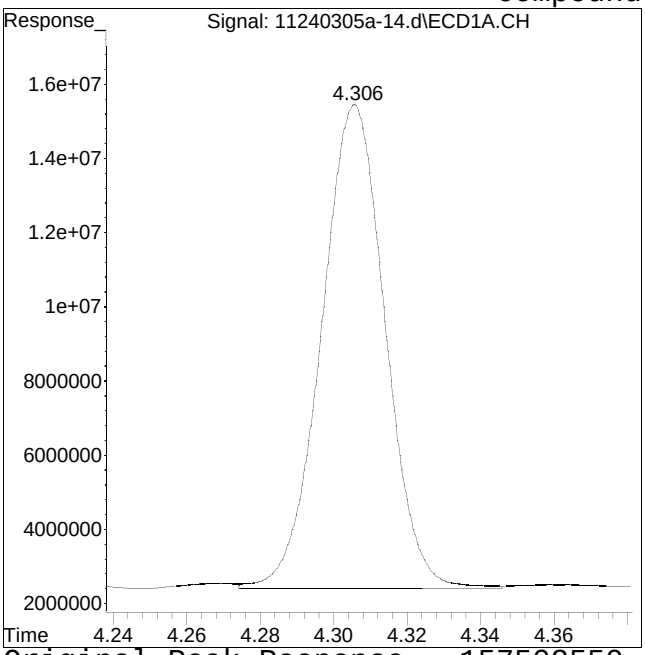


Original Peak Response = 305668273 Manual Peak Response = 301470571 M4
M4 = Poor automated baseline construction.

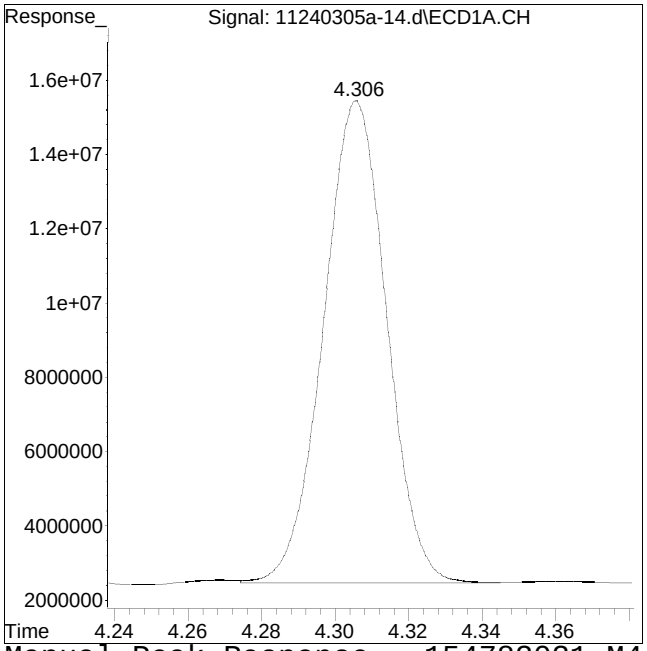
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-14.d Operator : PEST11:mmg
Date Inj'd : 3/5/2024 10:02 am Instrument : Pest 11
Sample : WG1892124-4,42,, ms Quant Date : 3/5/2024 10:54 am

Compound #18: Endrin



Original Peak Response = 157502550



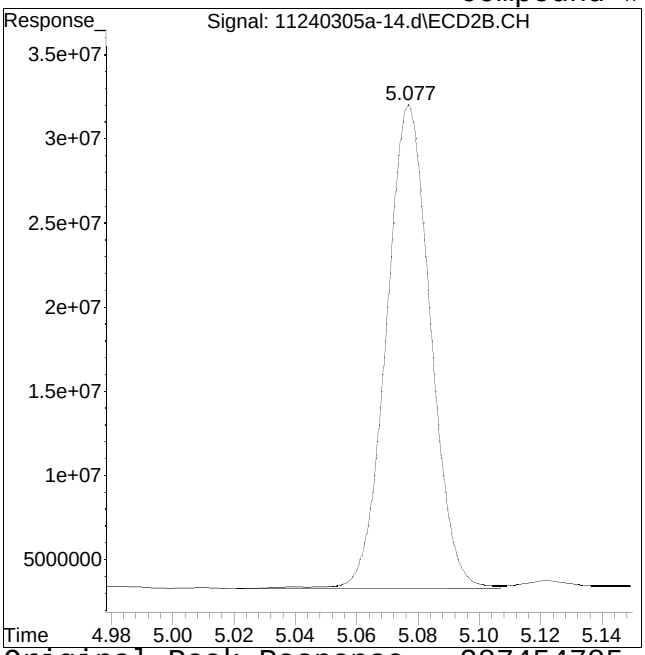
Manual Peak Response = 154783031 M4

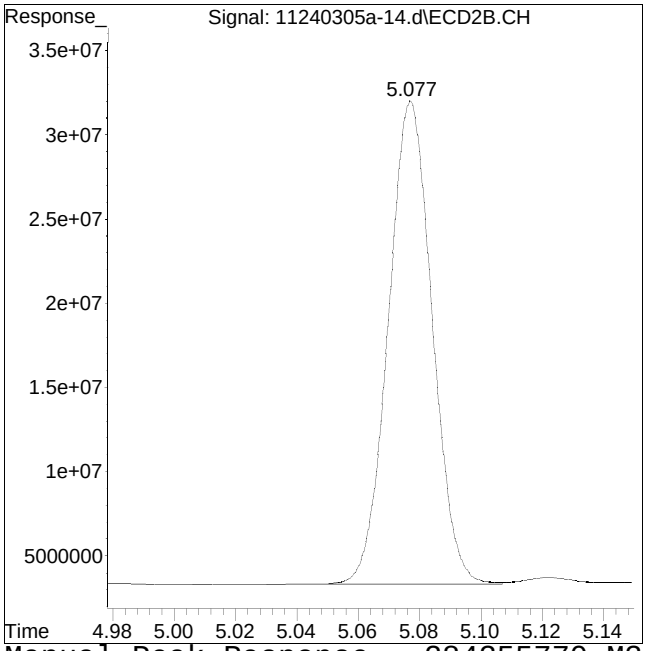
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-14.d Operator : PEST11:mmg
Date Inj'd : 3/5/2024 10:02 am Instrument : Pest 11
Sample : WG1892124-4,42,, ms Quant Date : 3/5/2024 10:54 am

Compound #56: Endrin #2



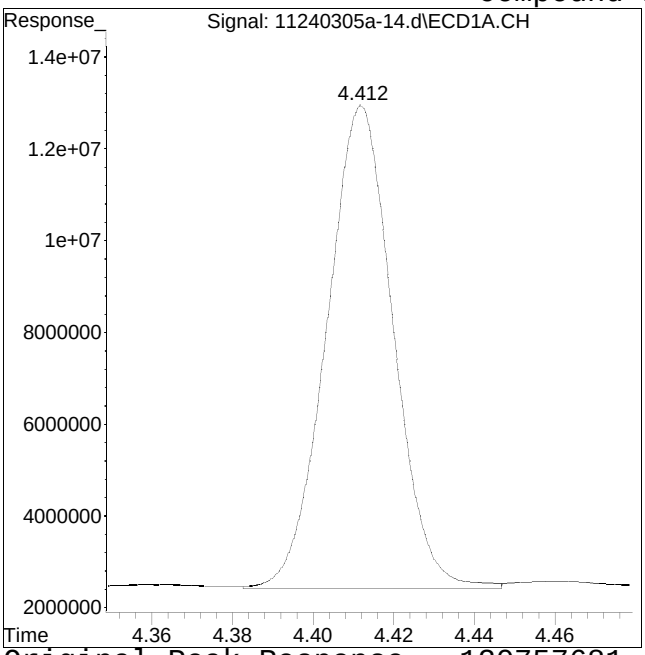


Original Peak Response = 287454785 Manual Peak Response = 284355770 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

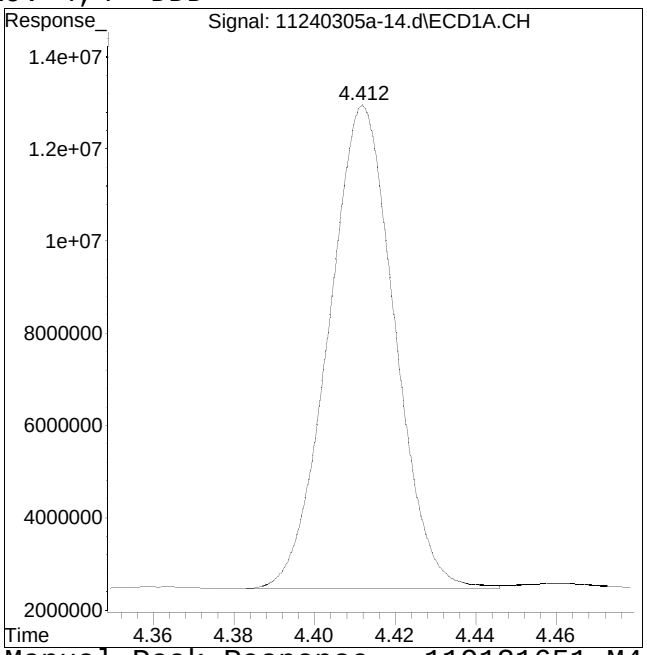
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-14.d Operator : PEST11:mmg
Date Inj'd : 3/5/2024 10:02 am Instrument : Pest 11
Sample : WG1892124-4,42,, ms Quant Date : 3/5/2024 10:54 am

Compound #19: 4,4'-DDD



Original Peak Response = 120757681

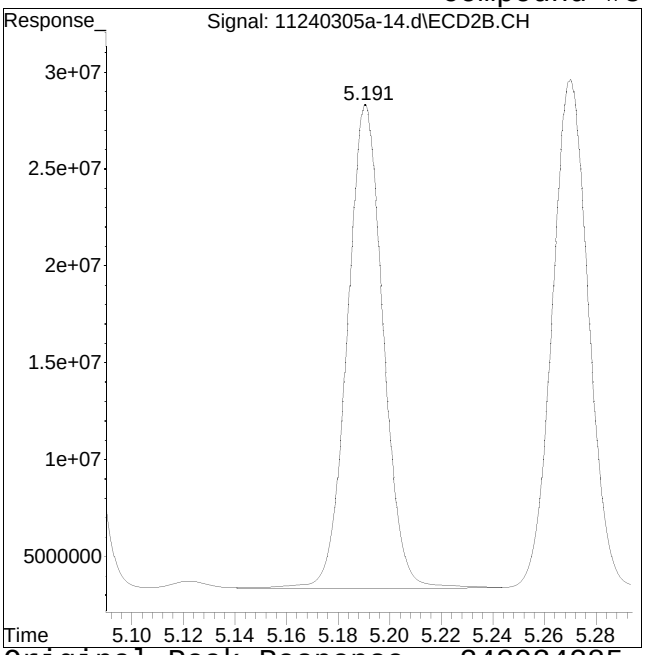


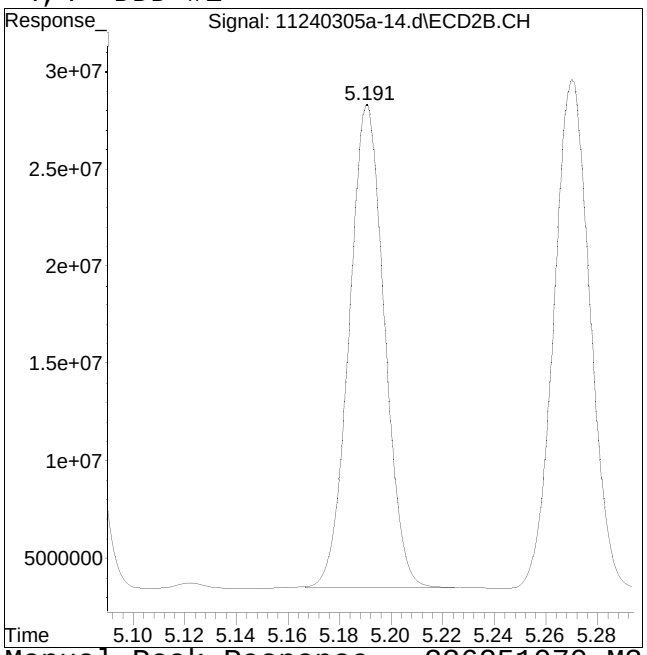
Manual Peak Response = 119121651 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-14.d Operator : PEST11:mmg
Date Inj'd : 3/5/2024 10:02 am Instrument : Pest 11
Sample : WG1892124-4,42,, ms Quant Date : 3/5/2024 10:54 am

Compound #57: 4,4'-DDD #2



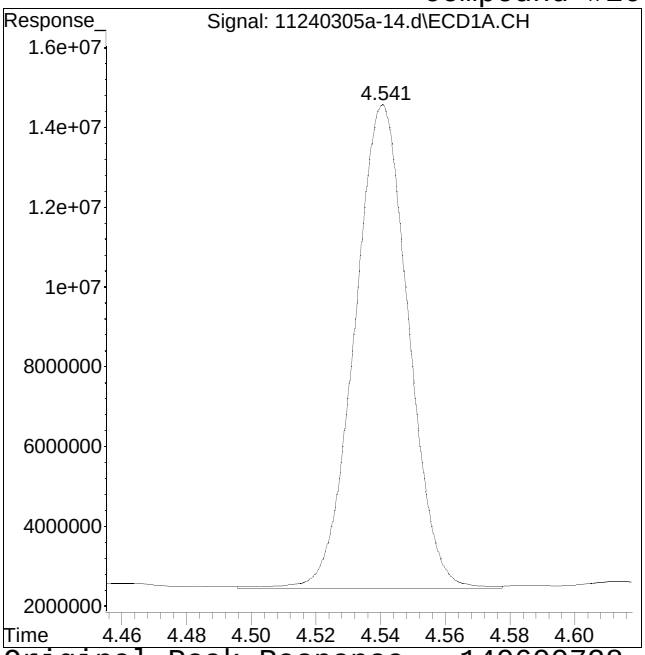


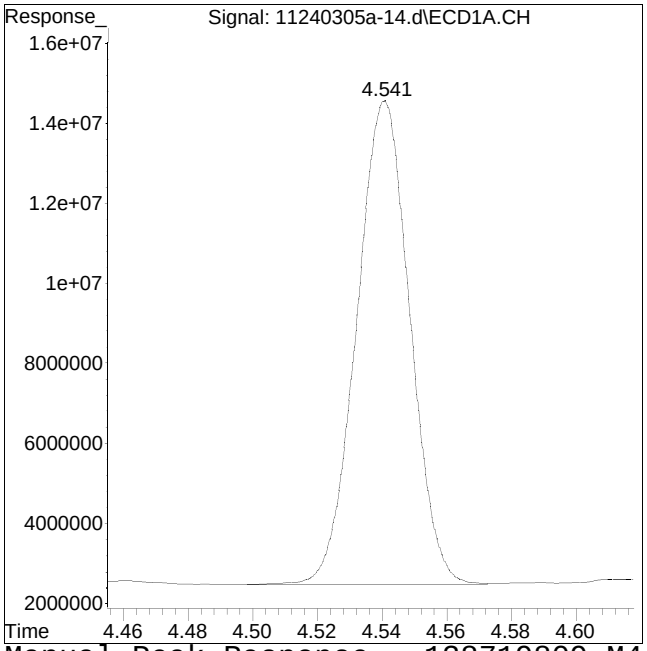
Original Peak Response = 243934285 Manual Peak Response = 236251070 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-14.d Operator : PEST11:mmg
Date Inj'd : 3/5/2024 10:02 am Instrument : Pest 11
Sample : WG1892124-4,42,, ms Quant Date : 3/5/2024 10:54 am

Compound #20: Endosulfan II



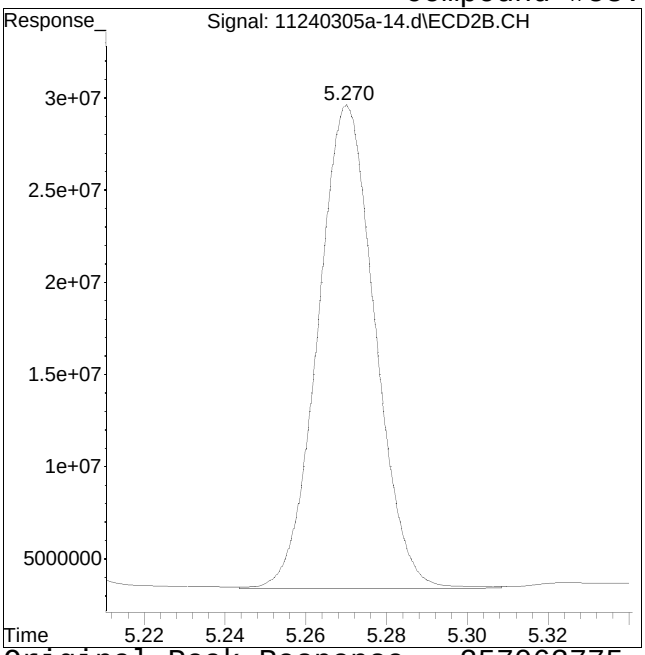


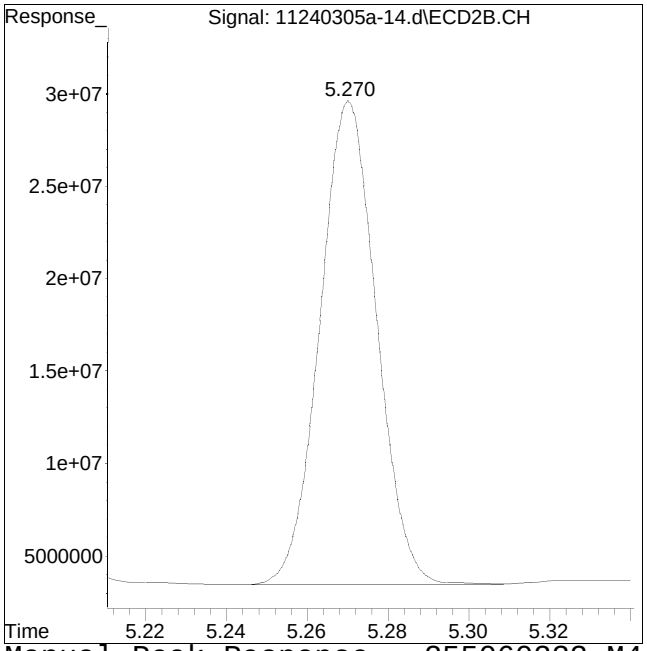
Original Peak Response = 140600728 Manual Peak Response = 138719809 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-14.d Operator : PEST11:mmg
Date Inj'd : 3/5/2024 10:02 am Instrument : Pest 11
Sample : WG1892124-4,42,, ms Quant Date : 3/5/2024 10:54 am

Compound #58: Endosulfan II #2



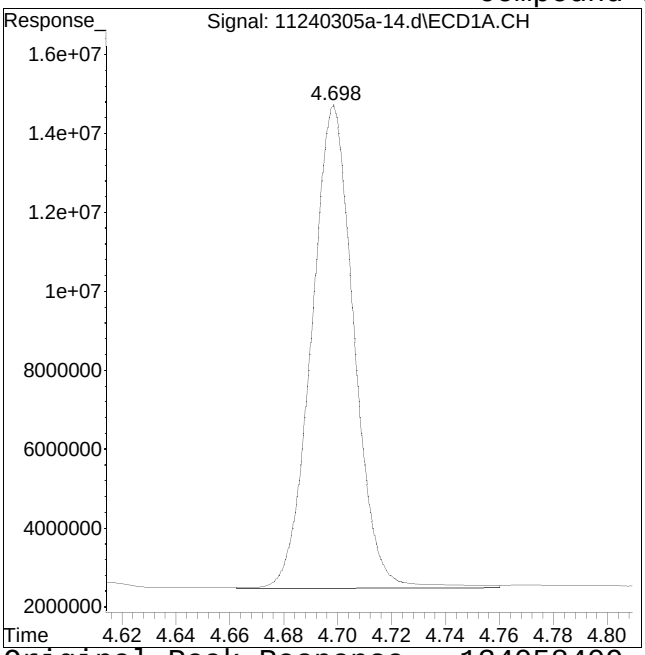


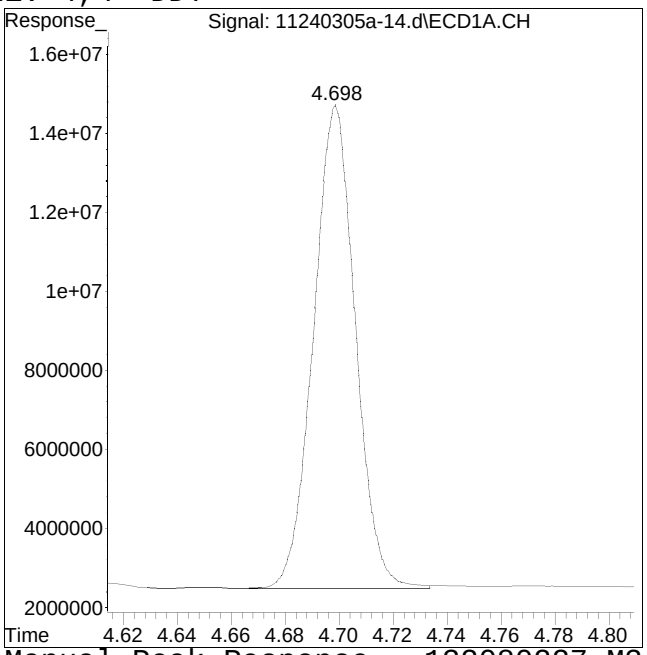
Original Peak Response = 257063775 Manual Peak Response = 255060233 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-14.d Operator : PEST11:mmg
Date Inj'd : 3/5/2024 10:02 am Instrument : Pest 11
Sample : WG1892124-4,42,, ms Quant Date : 3/5/2024 10:54 am

Compound #21: 4,4'-DDT



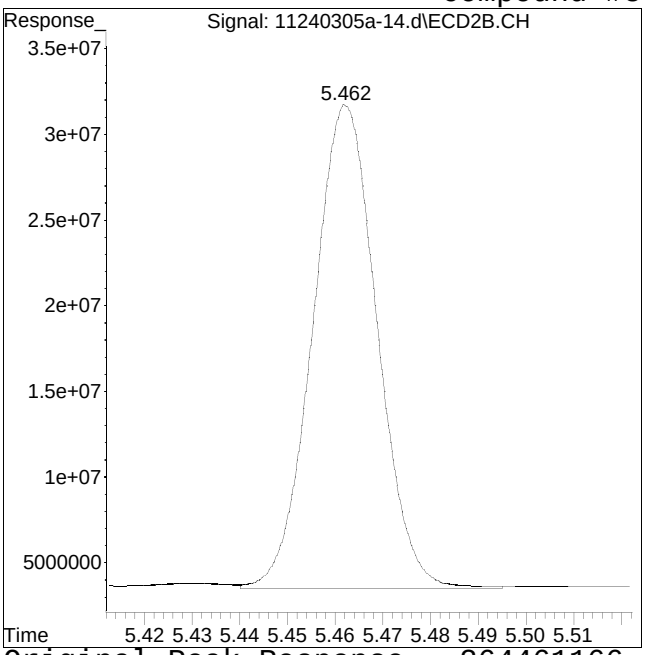


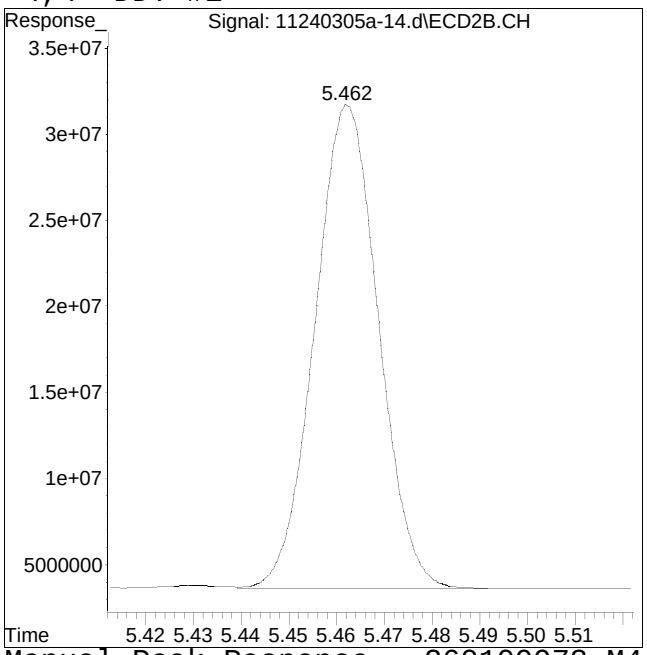
Original Peak Response = 134058409 Manual Peak Response = 132080227 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-14.d Operator : PEST11:mmg
Date Inj'd : 3/5/2024 10:02 am Instrument : Pest 11
Sample : WG1892124-4,42,, ms Quant Date : 3/5/2024 10:54 am

Compound #59: 4,4'-DDT #2



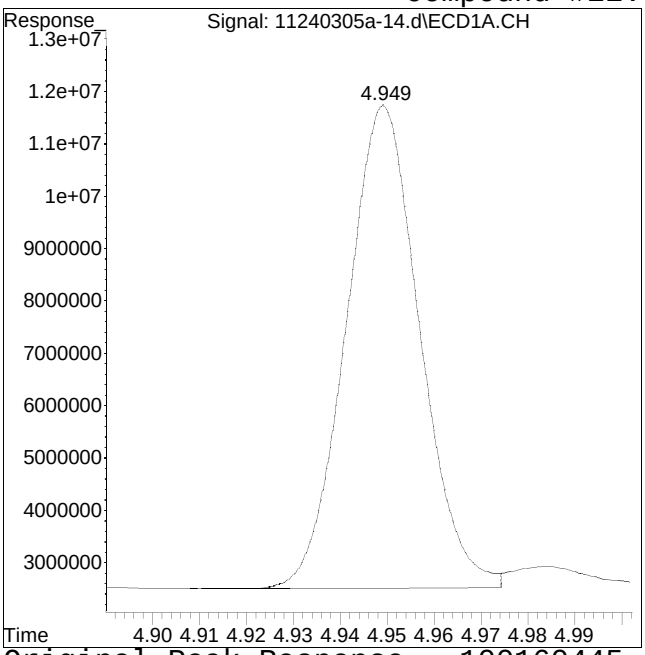


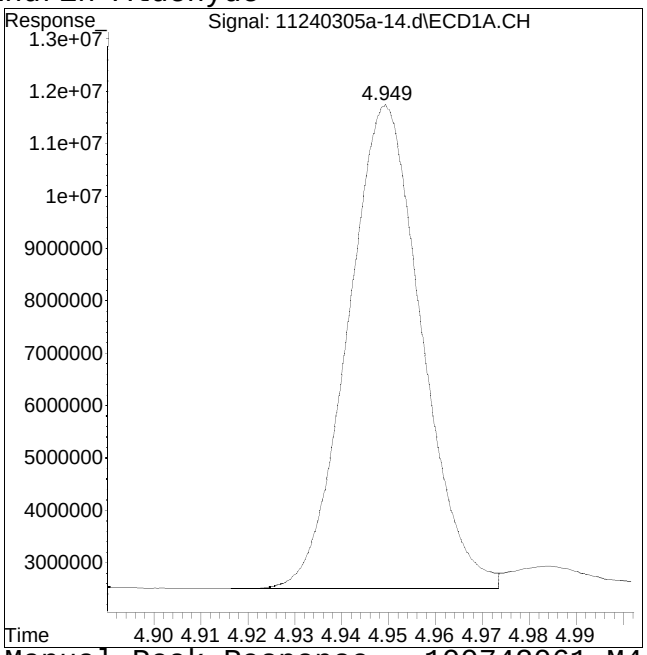
Original Peak Response = 264461166 Manual Peak Response = 260109973 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-14.d Operator : PEST11:mmg
Date Inj'd : 3/5/2024 10:02 am Instrument : Pest 11
Sample : WG1892124-4,42,, ms Quant Date : 3/5/2024 10:54 am

Compound #22: Endrin Aldehyde



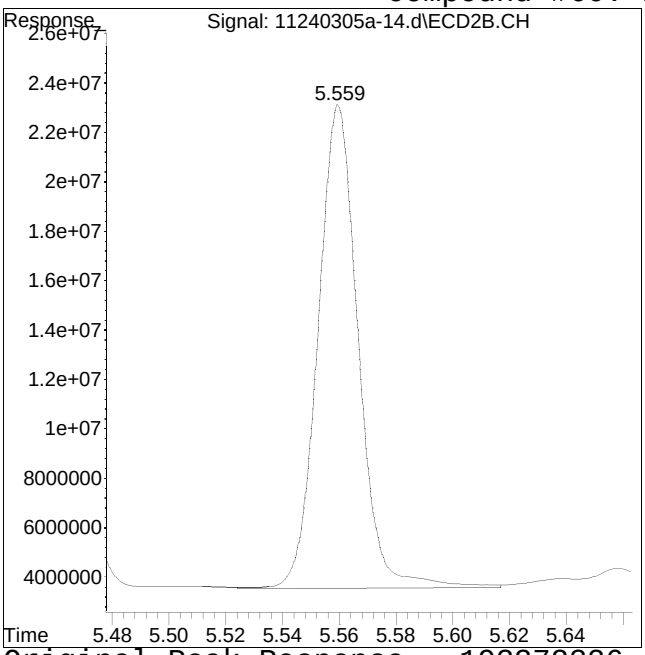


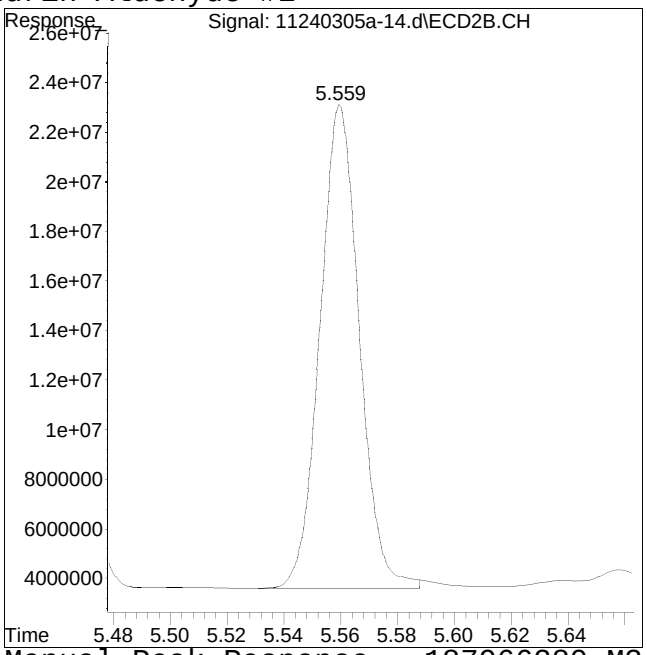
Original Peak Response = 100160445 Manual Peak Response = 100742061 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-14.d Operator : PEST11:mmg
Date Inj'd : 3/5/2024 10:02 am Instrument : Pest 11
Sample : WG1892124-4,42,, ms Quant Date : 3/5/2024 10:54 am

Compound #60: Endrin Aldehyde #2



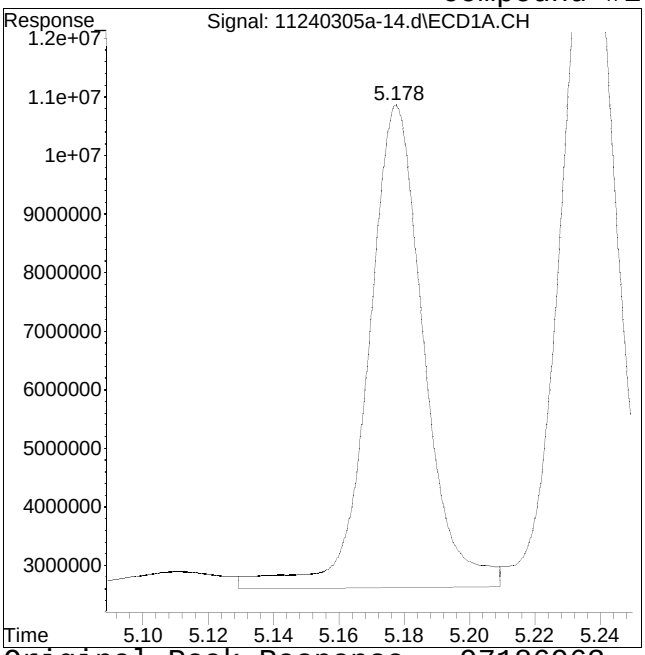


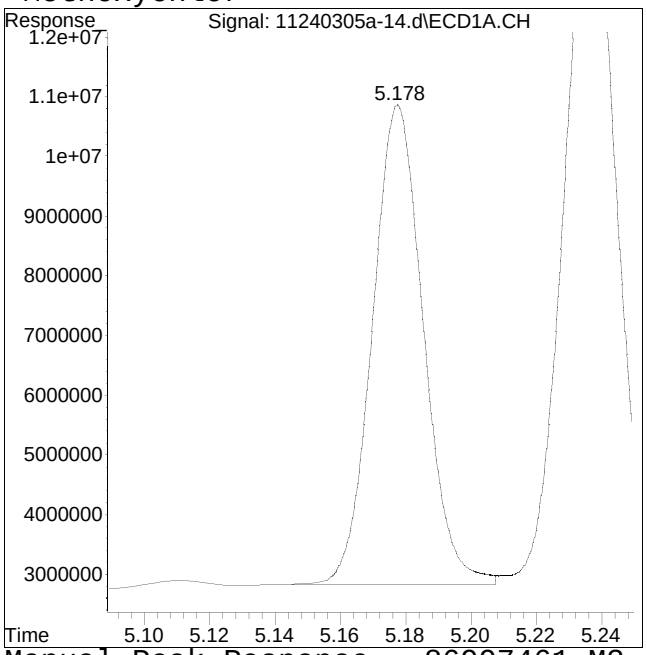
Original Peak Response = 193372326 Manual Peak Response = 187966280 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-14.d Operator : PEST11:mmg
Date Inj'd : 3/5/2024 10:02 am Instrument : Pest 11
Sample : WG1892124-4,42,, ms Quant Date : 3/5/2024 10:54 am

Compound #23: Methoxychlor



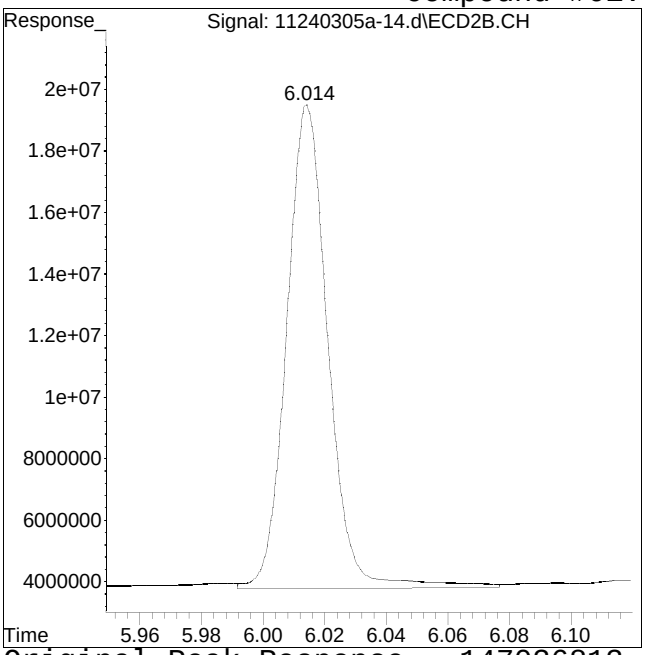


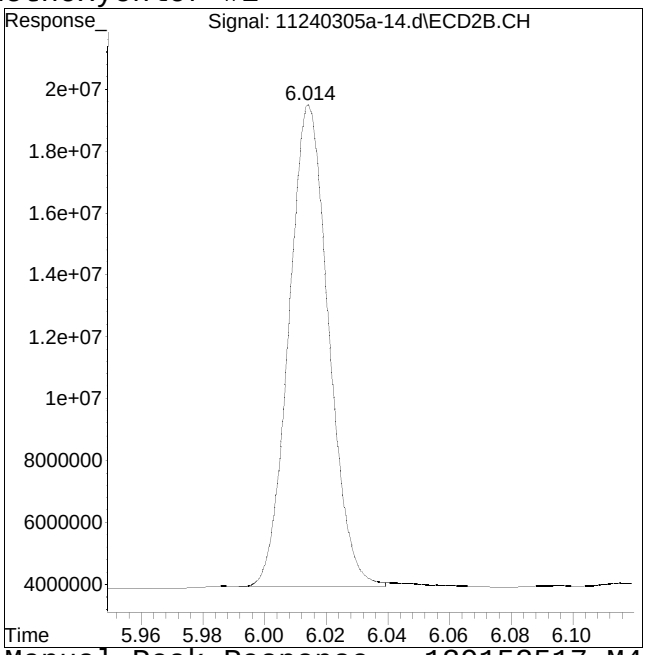
Original Peak Response = 97186963 Manual Peak Response = 86997461 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-14.d Operator : PEST11:mmg
Date Inj'd : 3/5/2024 10:02 am Instrument : Pest 11
Sample : WG1892124-4,42,, ms Quant Date : 3/5/2024 10:54 am

Compound #61: Methoxychlor #2



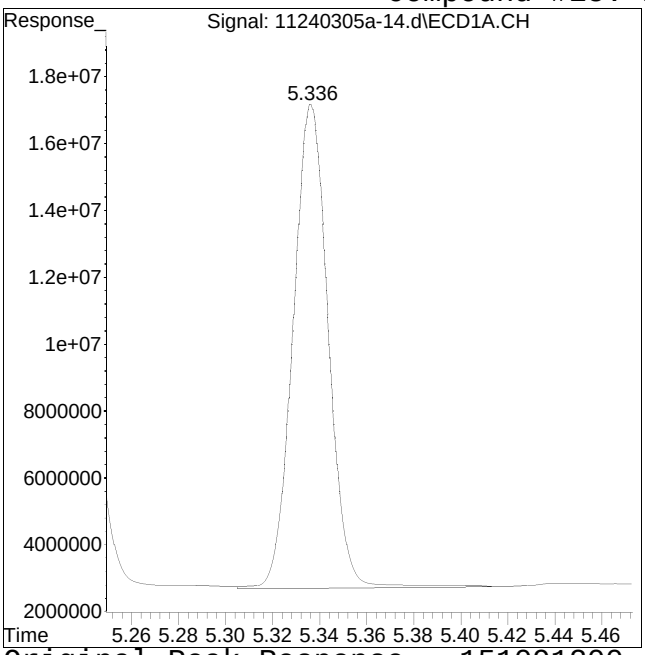


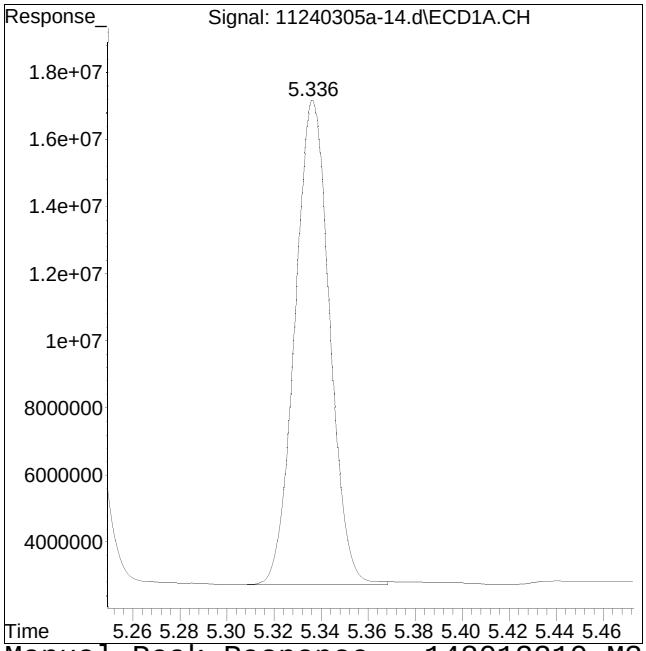
Original Peak Response = 147036813 Manual Peak Response = 139152517 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-14.d Operator : PEST11:mmg
Date Inj'd : 3/5/2024 10:02 am Instrument : Pest 11
Sample : WG1892124-4,42,, ms Quant Date : 3/5/2024 10:54 am

Compound #25: Endosulfan Sulfate



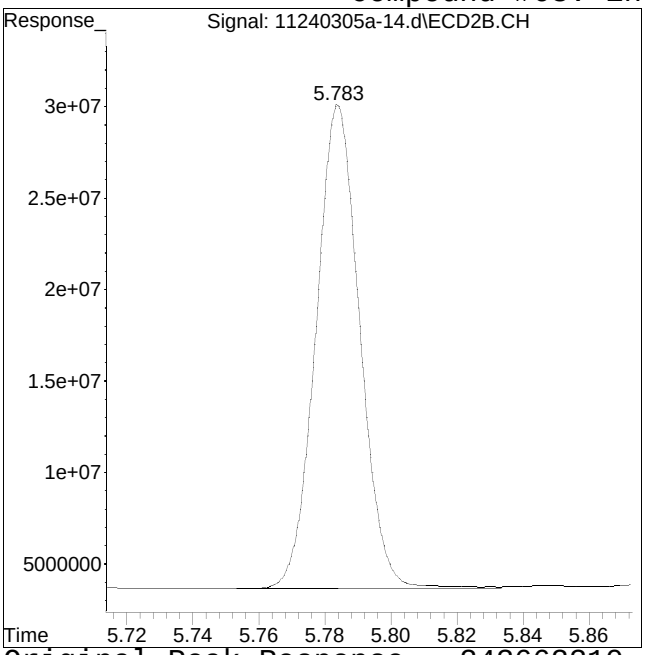


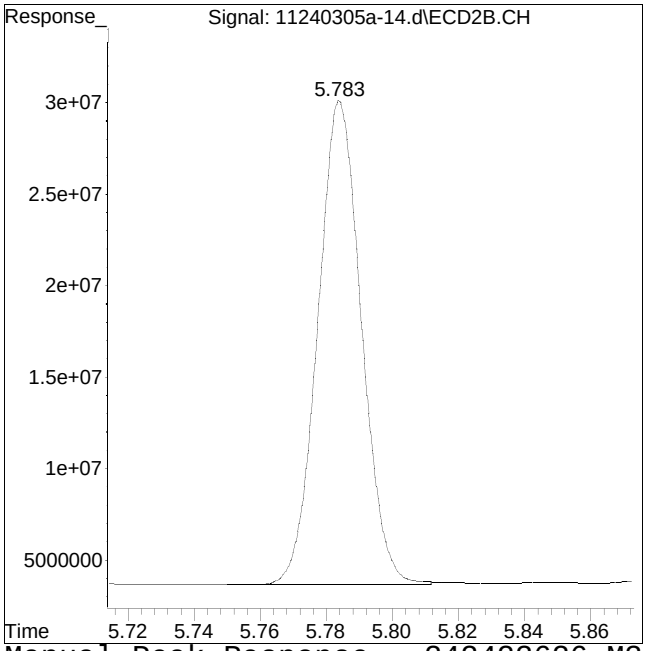
Original Peak Response = 151091200 Manual Peak Response = 148013210 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-14.d Operator : PEST11:mmg
Date Inj'd : 3/5/2024 10:02 am Instrument : Pest 11
Sample : WG1892124-4,42,, ms Quant Date : 3/5/2024 10:54 am

Compound #63: Endosulfan Sulfate #2



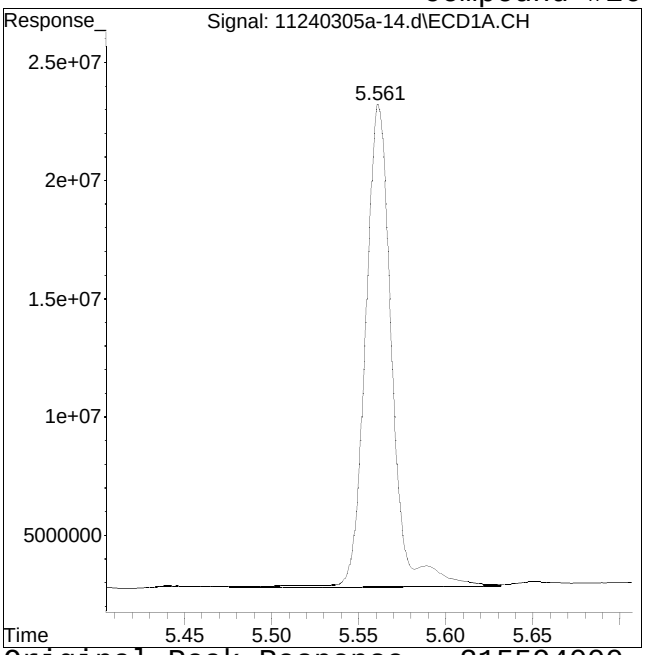


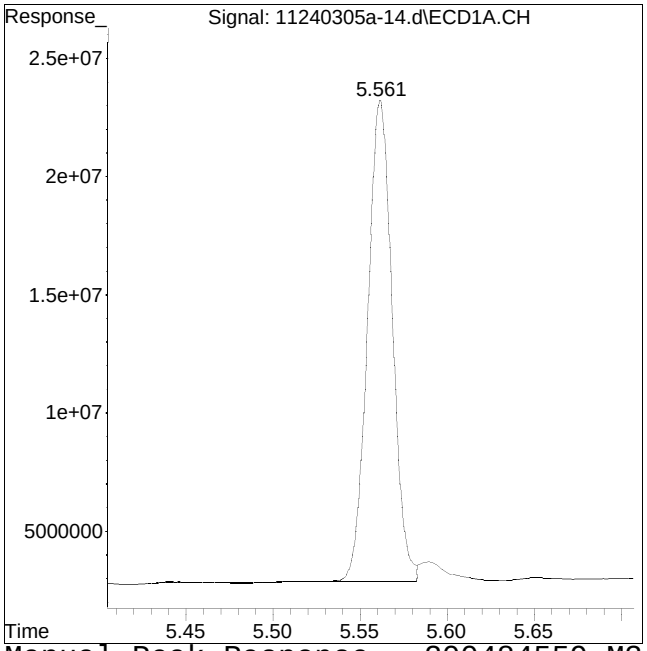
Original Peak Response = 243662310 Manual Peak Response = 242423626 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-14.d Operator : PEST11:mmg
Date Inj'd : 3/5/2024 10:02 am Instrument : Pest 11
Sample : WG1892124-4,42,, ms Quant Date : 3/5/2024 10:54 am

Compound #26: Endrin Ketone



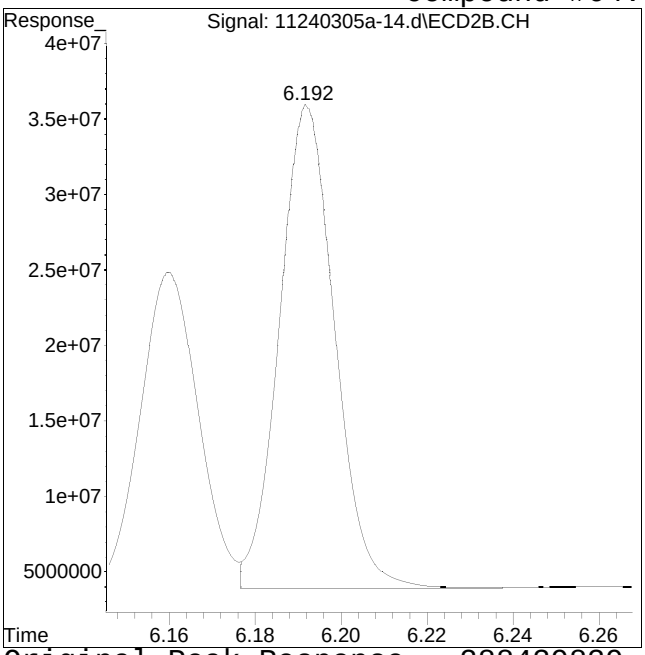


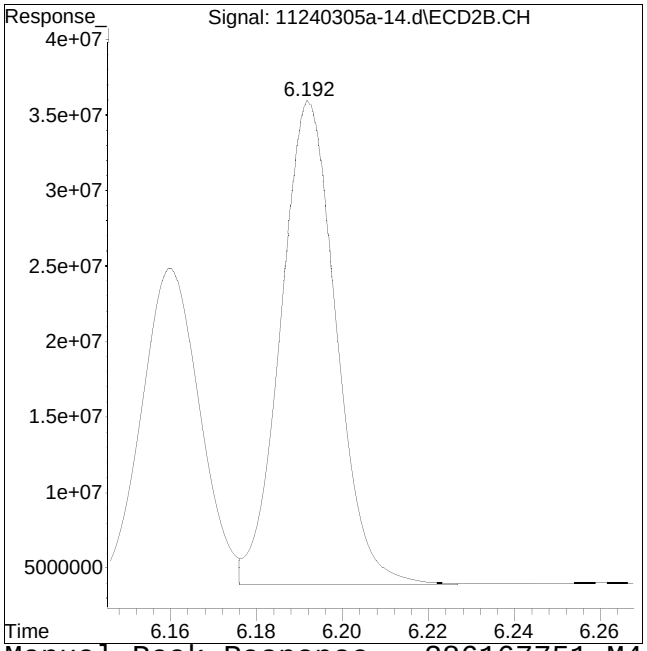
Original Peak Response = 215594000 Manual Peak Response = 200484559 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-14.d Operator : PEST11:mmg
Date Inj'd : 3/5/2024 10:02 am Instrument : Pest 11
Sample : WG1892124-4,42,, ms Quant Date : 3/5/2024 10:54 am

Compound #64: Endrin Ketone #2



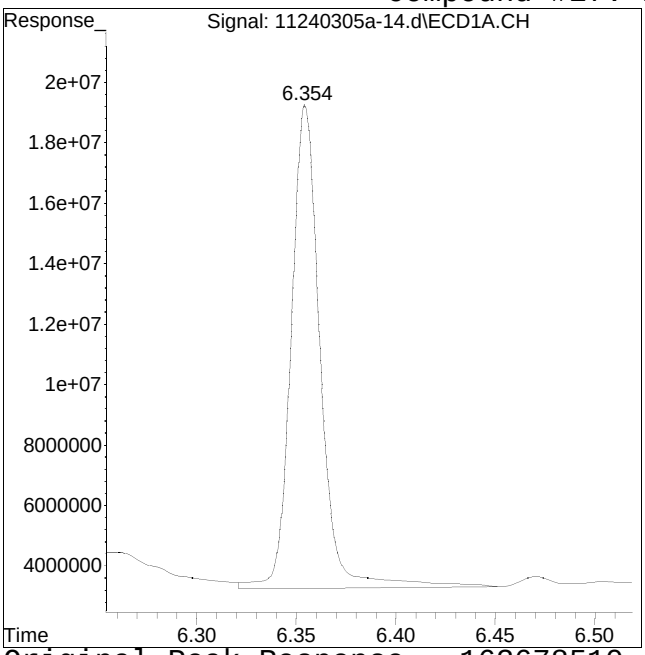


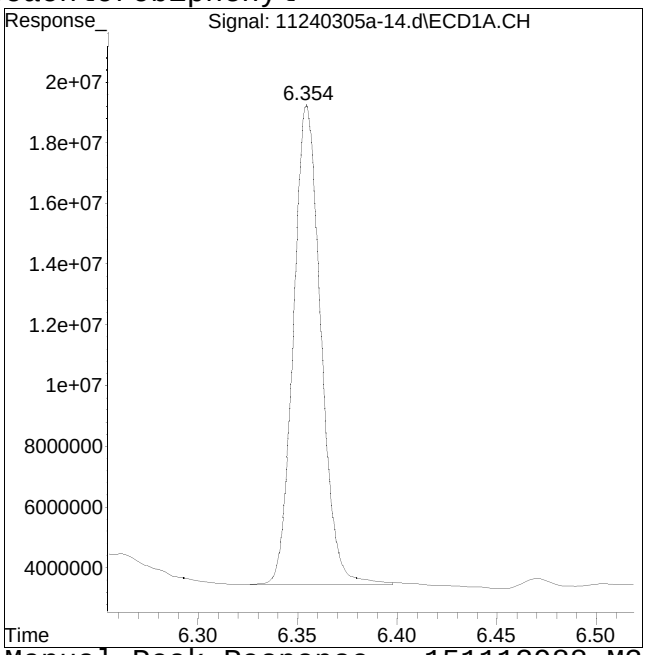
Original Peak Response = 288439839 Manual Peak Response = 286167751 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-14.d Operator : PEST11:mmg
Date Inj'd : 3/5/2024 10:02 am Instrument : Pest 11
Sample : WG1892124-4,42,, ms Quant Date : 3/5/2024 10:54 am

Compound #27: Decachlorobiphenyl



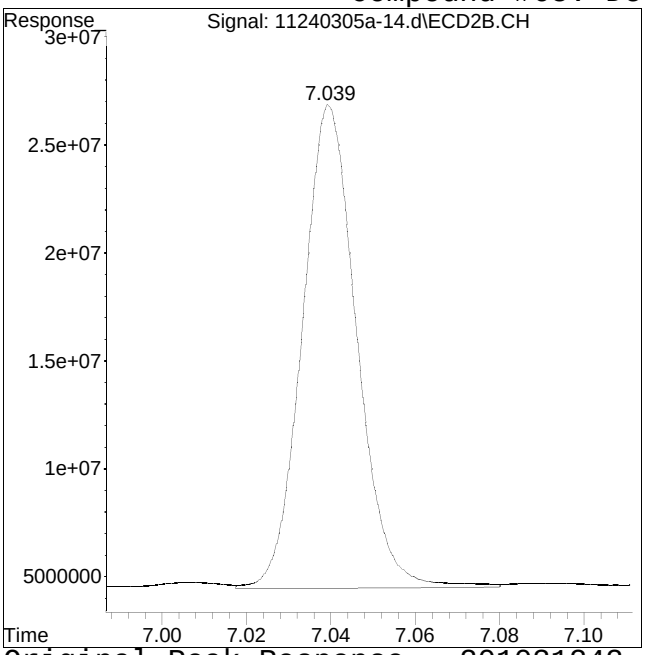


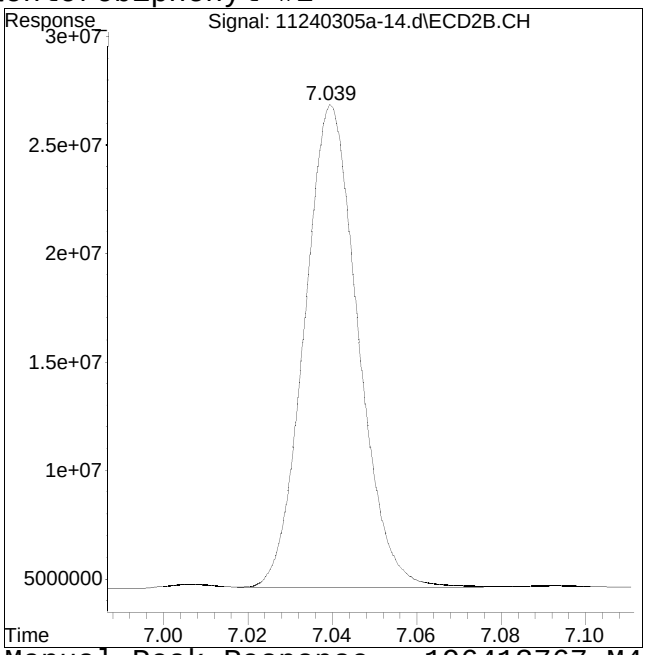
Original Peak Response = 163678510 Manual Peak Response = 151112988 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-14.d Operator : PEST11:mmg
Date Inj'd : 3/5/2024 10:02 am Instrument : Pest 11
Sample : WG1892124-4,42,, ms Quant Date : 3/5/2024 10:54 am

Compound #65: Decachlorobiphenyl #2





Original Peak Response = 201031242 Manual Peak Response = 196413767 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240305A\
Data File : 11240305a-15.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 05 Mar 2024 10:14 am
Operator : PEST11:mmg
Sample : WG1892124-5,42,, msd
Misc : wg1892239,WG1892124,ical20697
ALS Vial : 15 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 05 11:23:15 2024
Quant Method : I:\PEST\Pest11\2024\240305A\pest11_12_19_23_ugL_ICAL20697.M
Quant Title : pest
QLast Update : Tue Mar 05 08:15:23 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest11\2024\240305A\11240305a-03.d
Sub List : LCS_MS - spk only

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards							
1) i	1-br-2-nb_Pe	1.354	1.454	135.5E6	205.2E6	25.000M4	25.000M3
	Standard Area 1 : #1 = 83711596				Recovery = 161.85%		
	Standard Area 1 : #2 = 125546766				Recovery = 163.41%		
System Monitoring Compounds							
2) s	2,4,5,6-Tetr	1.704	1.951	142.5E6	224.0E6	27.449M4	27.425M4
	Spiked Amount 50.000	Range 30 - 150		Recovery = 54.90%		54.85%	
27) s	Decachlorobi	6.354	7.039	164.5E6	210.4E6	33.396M4	32.814M4
	Spiked Amount 50.000	Range 30 - 150		Recovery = 66.79%		65.63%	
Target Compounds							
4) t	alpha-BHC	2.023	2.386	214.0E6	348.8E6	29.513M3	30.608M4
5) t	gamma-BHC (l	2.229	2.684	200.8E6	324.2E6	28.995M4	30.036M4
6) t	beta-BHC	2.287	2.752	93826177	152.7E6	30.332M4	33.128M4
7) t	delta-BHC	2.418	3.030	162.6E6	260.0E6	23.174M4	24.204M4
8) t	Heptachlor	2.584	3.098	198.5E6	314.8E6	27.975M3	28.281M4
9) t	Aldrin	2.832	3.430	168.5E6	284.1E6	26.195M4	28.218M3
12) t	Heptachlor E	3.387	4.065	167.6E6	286.7E6	25.826M3	30.260M3
13) t	gamma-Chlord	3.514	4.287	167.0E6	315.4E6	28.238M4	34.777M4
14) t	alpha-Chlord	3.650	4.448	160.4E6	289.8E6	23.863M3	30.479M4
15) t	4,4'-DDE	3.748	4.634	148.1E6	277.4E6	24.265M4	30.001M4
16) t	Endosulfan I	3.789	4.508	153.6E6	269.3E6	24.173M4	29.135M4
17) t	Dieldrin	4.052	4.788	165.9E6	302.9E6	26.217M3	32.758M3
18) t	Endrin	4.306	5.077	158.3E6	289.1E6	24.643M4	31.182M4
19) t	4,4'-DDD	4.412	5.191	123.9E6	245.8E6	24.480M4	33.406M3
20) t	Endosulfan I	4.540	5.270	144.0E6	261.8E6	24.272M4	31.347M4
21) t	4,4'-DDT	4.698	5.462	136.6E6	267.3E6	22.671M3	31.779M4

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240305A\
Data File : 11240305a-15.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 05 Mar 2024 10:14 am
Operator : PEST11:mmg
Sample : WG1892124-5,42,, msd
Misc : wg1892239,WG1892124,ical20697
ALS Vial : 15 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 05 11:23:15 2024
Quant Method : I:\PEST\Pest11\2024\240305A\pest11_12_19_23_ugL_ICAL20697.M
Quant Title : pest
QLast Update : Tue Mar 05 08:15:23 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest11\2024\240305A\11240305a-03.d
Sub List : LCS_MS - spk only

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
22) t Endrin Aldeh	4.949	5.559	102.0E6	201.5E6	21.175M4	30.107M3
23) t Methoxychlor	5.178	6.014	90234465	147.3E6	27.817M4	34.685M3
25) t Endosulfan S	5.336	5.784	149.6E6	251.4E6	25.648M4	30.821M3
26) t Endrin Keton	5.561	6.192	209.4E6	297.8E6	31.815M4	33.975M4
Sum chlordane-1			0	0	N.D.	N.D.
Average chlordane-1					0.000	0.000
Sum toxaphene-2			0	0	N.D.	N.D.
Average toxaphene-2					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument						
Sum toxaphene-2			0	0	N.D.	N.D.
Average toxaphene-2					0.000	0.000

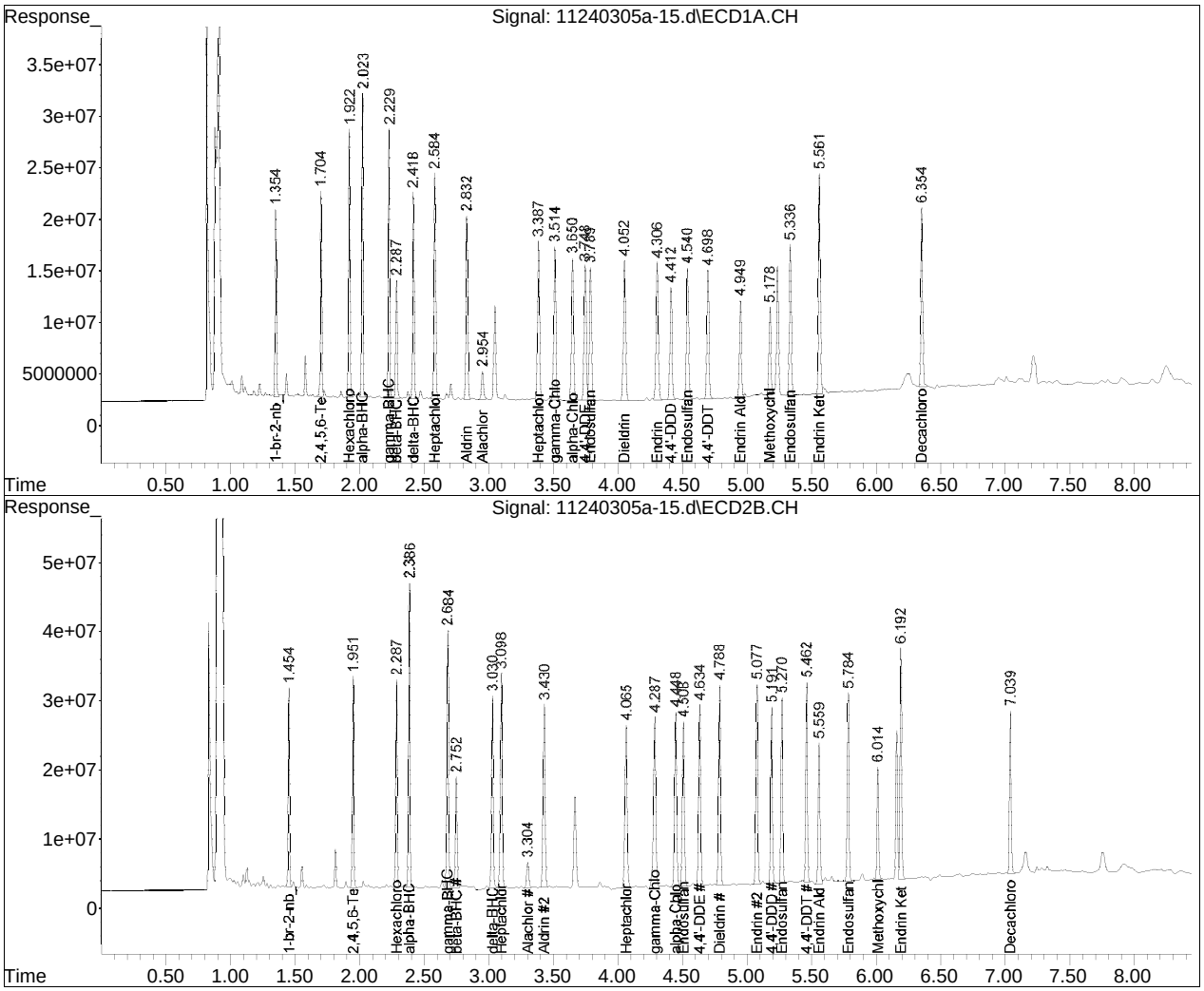
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : LCS_MS - spk only1\2024\240305A\11240305a-03.d••

Data Path : I:\PEST\Pest11\2024\240305A\
Data File : 11240305a-15.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 05 Mar 2024 10:14 am
Operator : PEST11:mmg
Sample : WG1892124-5,42,, msd
Misc : wg1892239,WG1892124,ical20697
ALS Vial : 15 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 05 11:23:15 2024
Quant Method : I:\PEST\Pest11\2024\240305A\pest11_12_19_23_ugL_ICAL20697.M
Quant Title : pest
QLast Update : Tue Mar 05 08:15:23 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

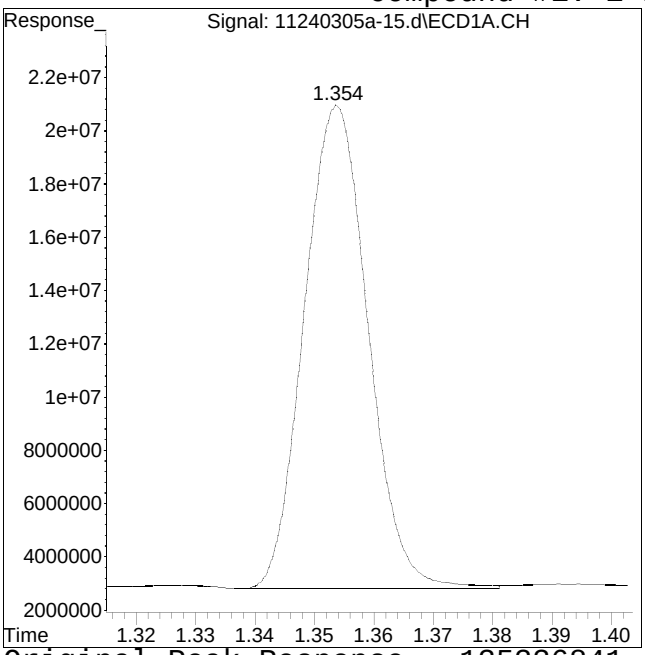
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

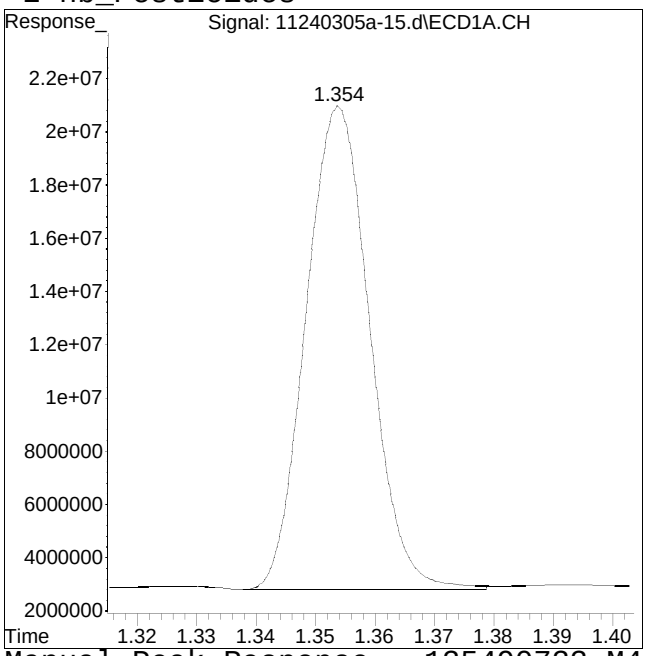


Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-15.d Operator : PEST11:mmg
Date Inj'd : 3/5/2024 10:14 am Instrument : Pest 11
Sample : WG1892124-5,42,, msd Quant Date : 3/5/2024 10:54 am

Compound #1: 1-br-2-nb_Pesticides



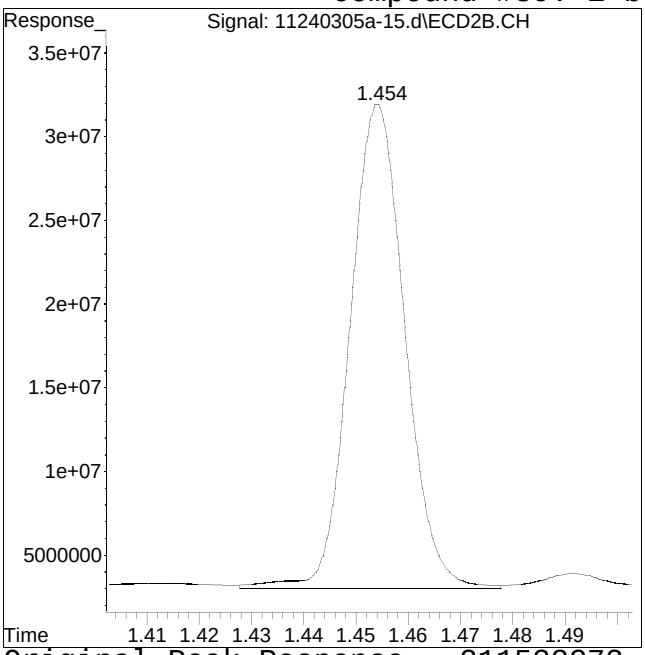


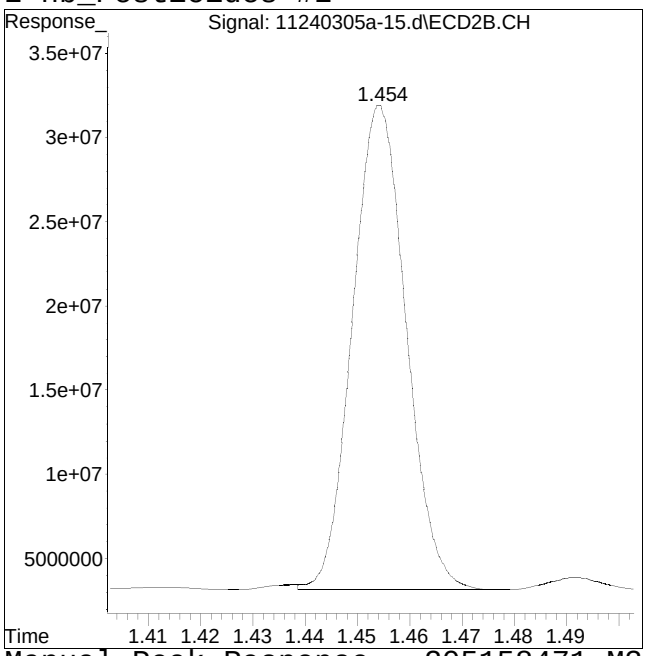
Original Peak Response = 135336841 Manual Peak Response = 135490733 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-15.d Operator : PEST11:mmg
Date Inj'd : 3/5/2024 10:14 am Instrument : Pest 11
Sample : WG1892124-5,42,, msd Quant Date : 3/5/2024 10:54 am

Compound #39: 1-br-2-nb_Pesticides #2



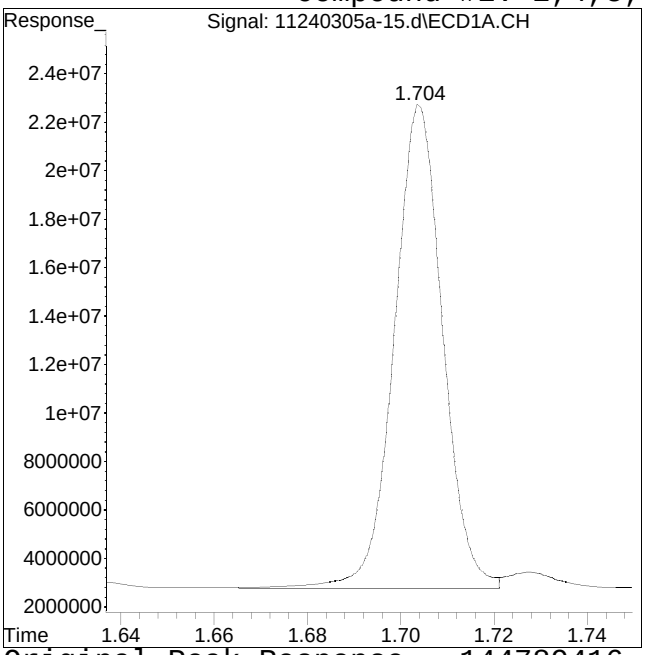


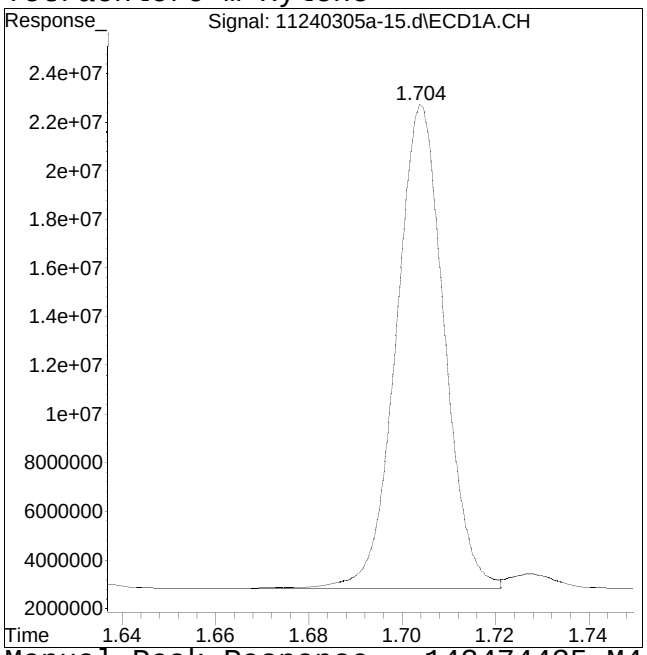
Original Peak Response = 211532272 Manual Peak Response = 205158471 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-15.d Operator : PEST11:mmg
Date Inj'd : 3/5/2024 10:14 am Instrument : Pest 11
Sample : WG1892124-5,42,, msd Quant Date : 3/5/2024 10:54 am

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



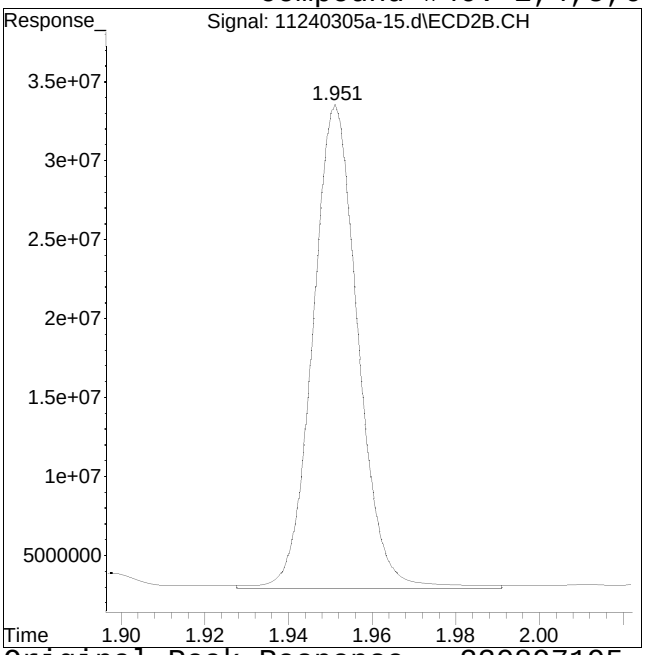


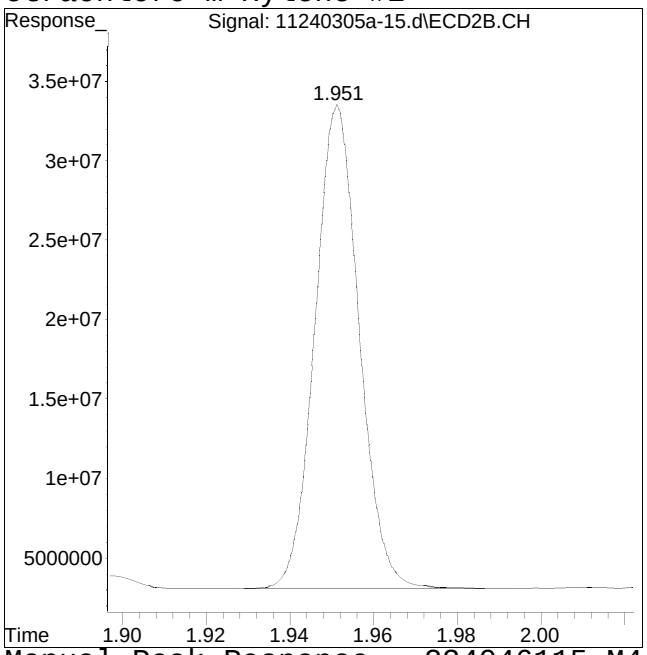
Original Peak Response = 144789416 Manual Peak Response = 142474435 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-15.d Operator : PEST11:mmg
Date Inj'd : 3/5/2024 10:14 am Instrument : Pest 11
Sample : WG1892124-5,42,, msd Quant Date : 3/5/2024 10:54 am

Compound #40: 2,4,5,6-Tetrachloro-m-xylene #2



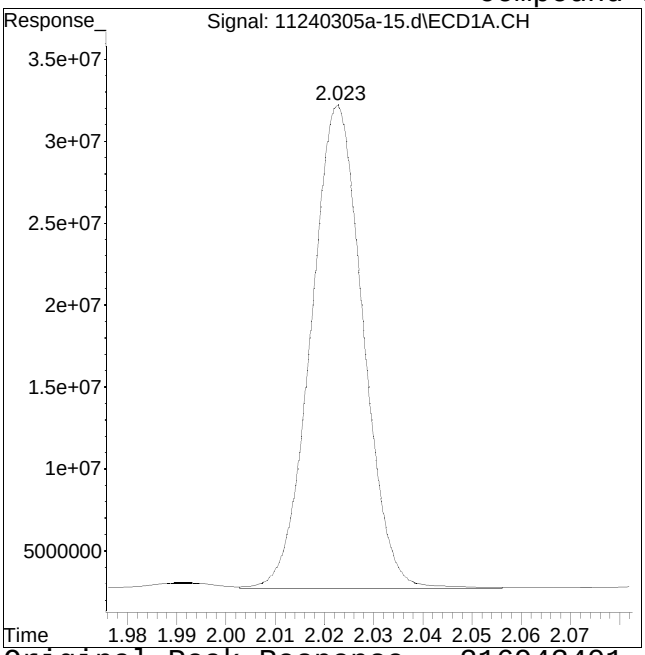


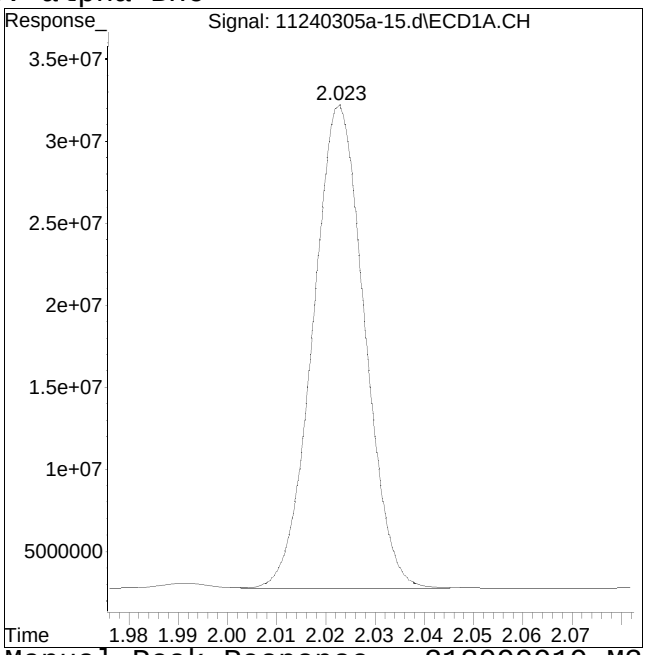
Original Peak Response = 230897195 Manual Peak Response = 224046115 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-15.d Operator : PEST11:mmg
Date Inj'd : 3/5/2024 10:14 am Instrument : Pest 11
Sample : WG1892124-5,42,, msd Quant Date : 3/5/2024 10:54 am

Compound #4: alpha-BHC



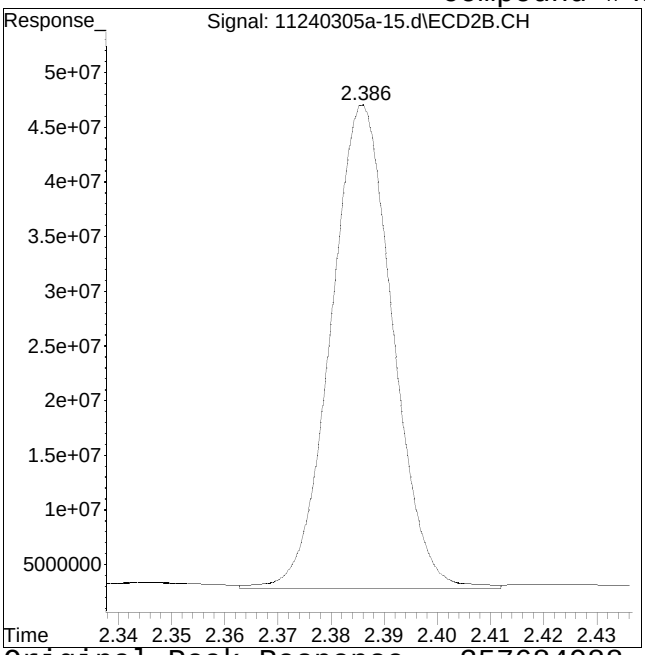


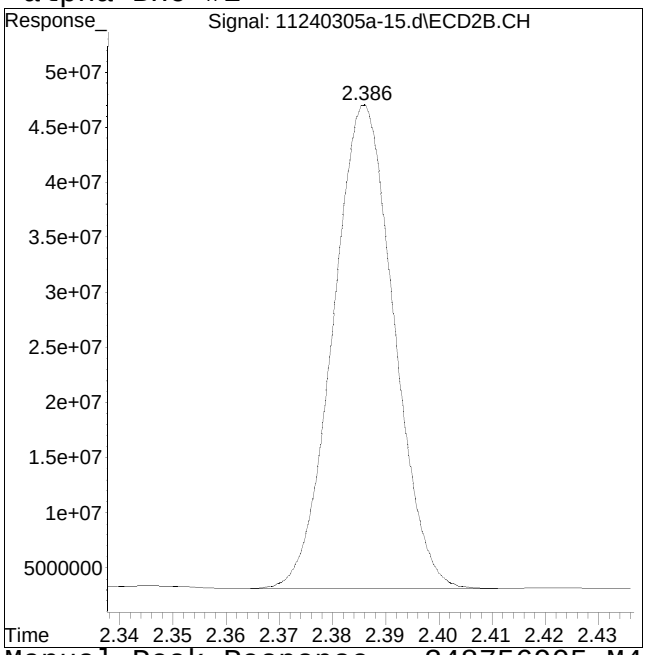
Original Peak Response = 216943401 Manual Peak Response = 213999919 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-15.d Operator : PEST11:mmg
Date Inj'd : 3/5/2024 10:14 am Instrument : Pest 11
Sample : WG1892124-5,42,, msd Quant Date : 3/5/2024 10:54 am

Compound #42: alpha-BHC #2



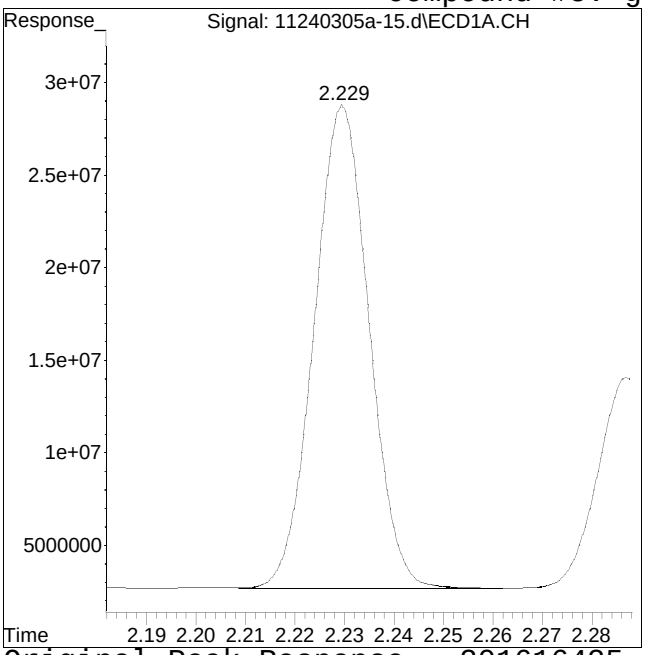


Original Peak Response = 357684988 Manual Peak Response = 348756905 M4
M4 = Poor automated baseline construction.

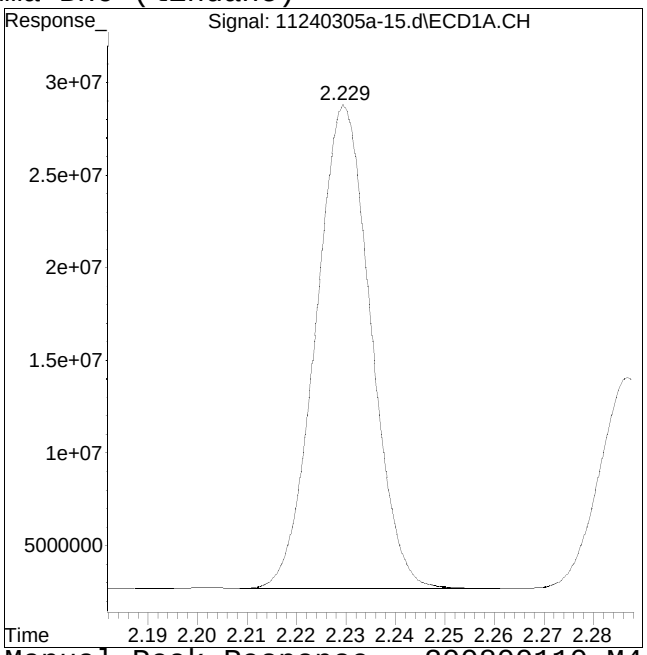
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-15.d Operator : PEST11:mmg
Date Inj'd : 3/5/2024 10:14 am Instrument : Pest 11
Sample : WG1892124-5,42,, msd Quant Date : 3/5/2024 10:54 am

Compound #5: gamma-BHC (lindane)



Original Peak Response = 201616425

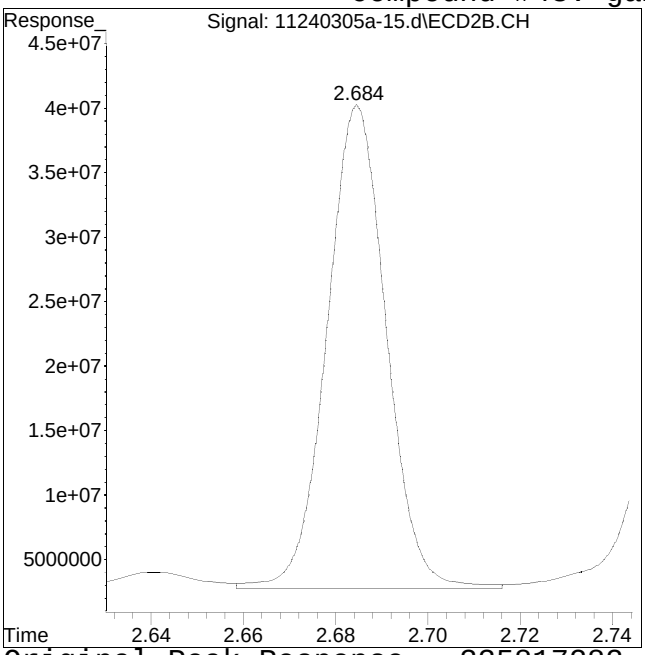


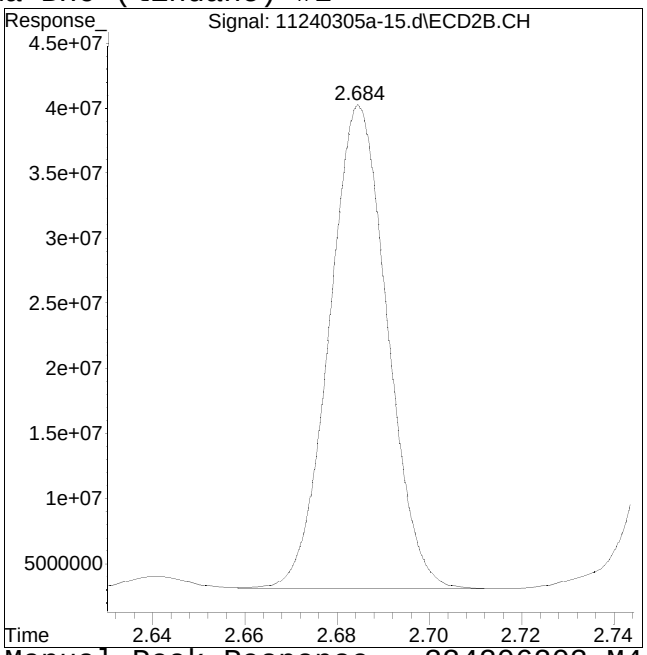
Manual Peak Response = 200800110 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-15.d Operator : PEST11:mmg
Date Inj'd : 3/5/2024 10:14 am Instrument : Pest 11
Sample : WG1892124-5,42,, msd Quant Date : 3/5/2024 10:54 am

Compound #43: gamma-BHC (lindane) #2



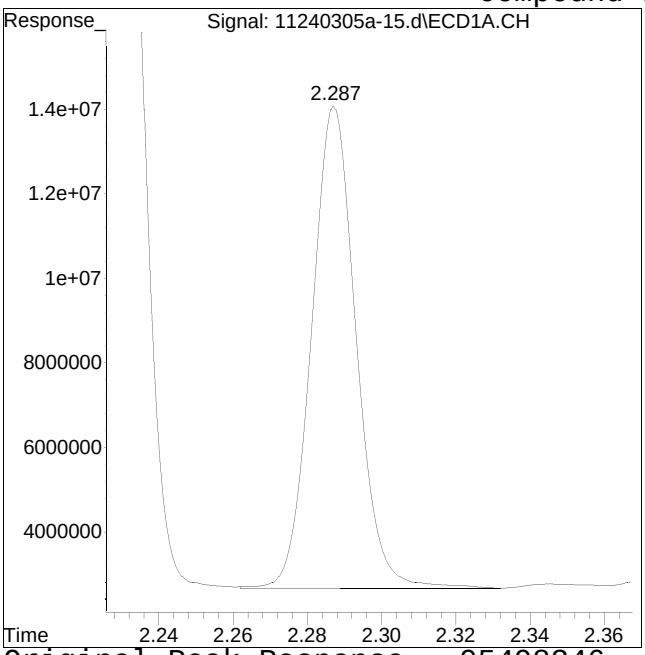


Original Peak Response = 335817282 Manual Peak Response = 324206203 M4
M4 = Poor automated baseline construction.

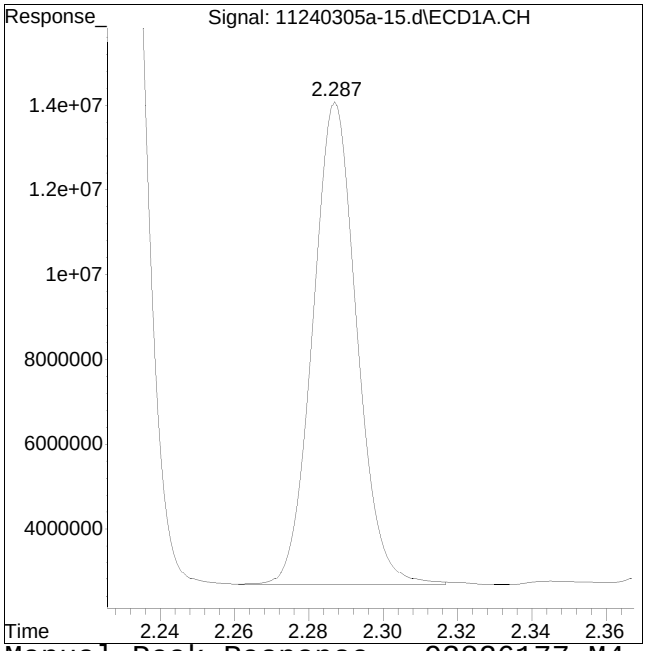
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-15.d Operator : PEST11:mmg
Date Inj'd : 3/5/2024 10:14 am Instrument : Pest 11
Sample : WG1892124-5,42,, msd Quant Date : 3/5/2024 10:54 am

Compound #6: beta-BHC



Original Peak Response = 95498346



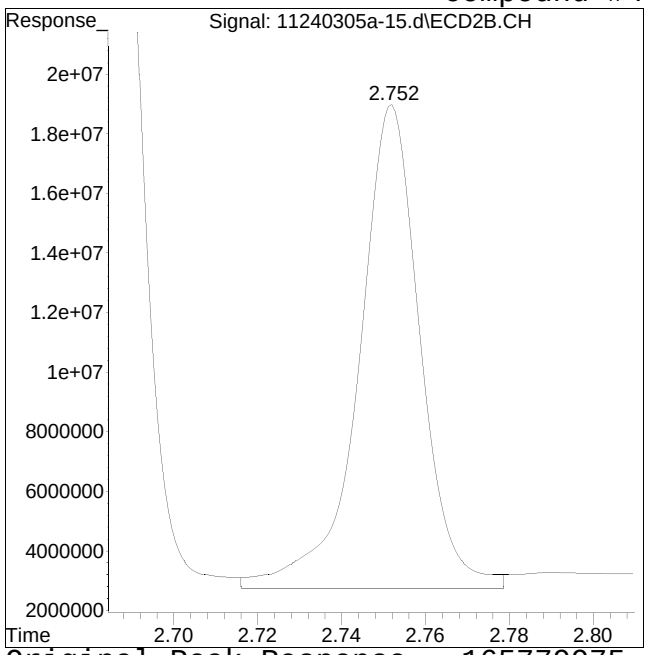
Manual Peak Response = 93826177 M4

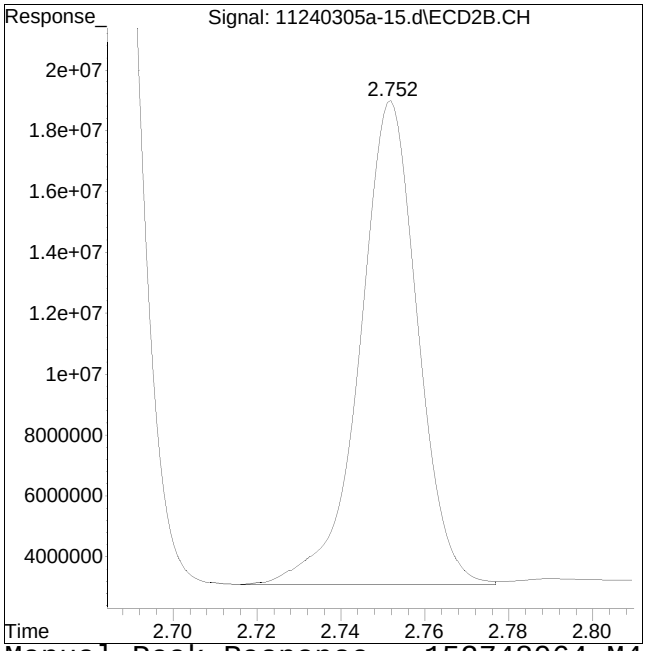
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-15.d Operator : PEST11:mmg
Date Inj'd : 3/5/2024 10:14 am Instrument : Pest 11
Sample : WG1892124-5,42,, msd Quant Date : 3/5/2024 10:54 am

Compound #44: beta-BHC #2



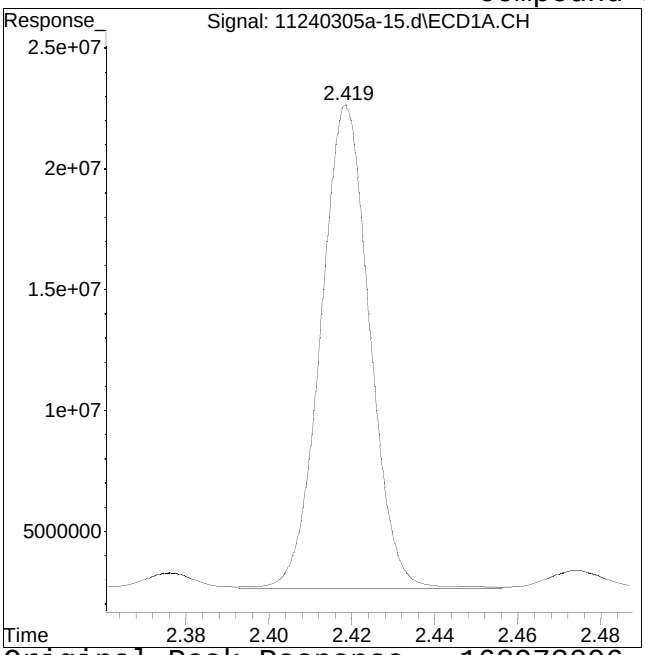


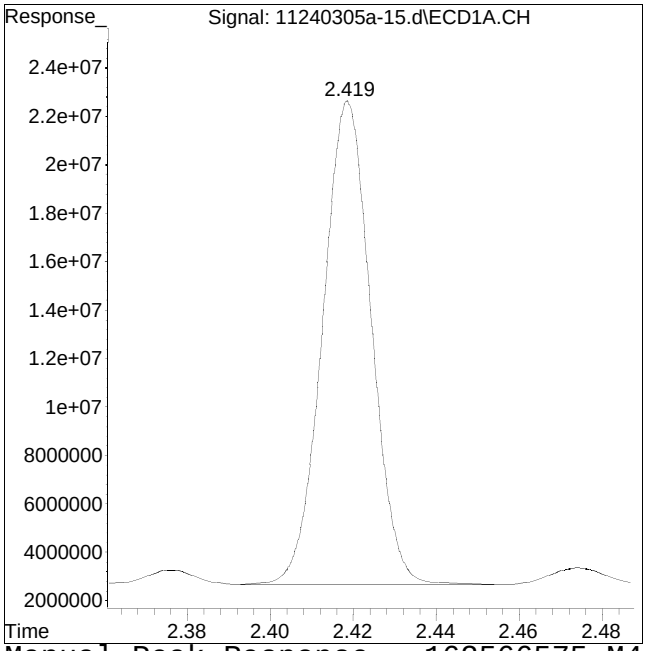
Original Peak Response = 165779975 Manual Peak Response = 152748064 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-15.d Operator : PEST11:mmg
Date Inj'd : 3/5/2024 10:14 am Instrument : Pest 11
Sample : WG1892124-5,42,, msd Quant Date : 3/5/2024 10:54 am

Compound #7: delta-BHC



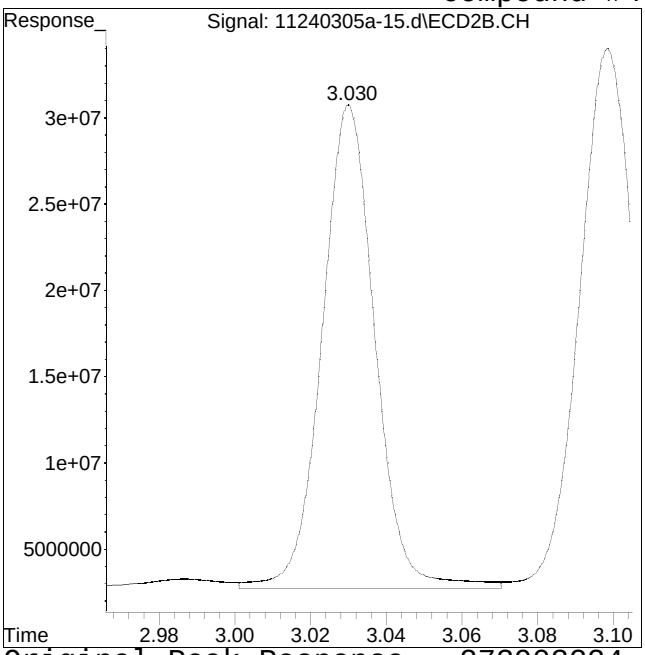


Original Peak Response = 163973006 Manual Peak Response = 162566575 M4
M4 = Poor automated baseline construction.

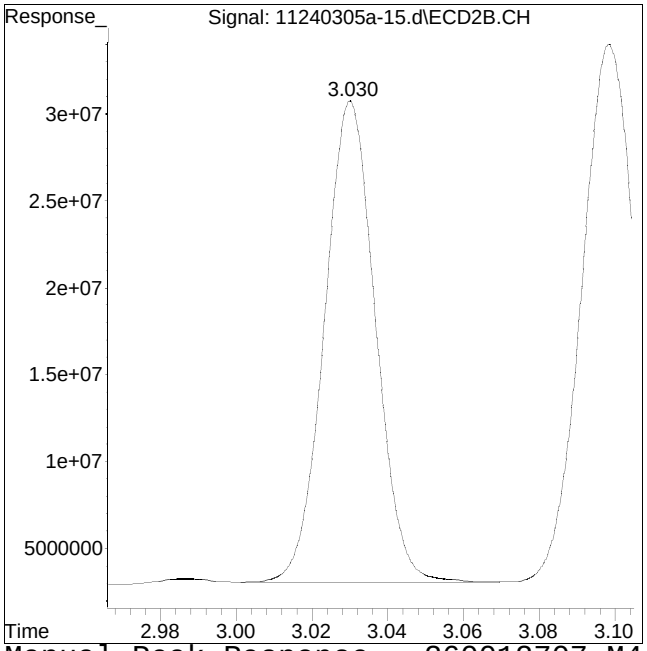
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-15.d Operator : PEST11:mmg
Date Inj'd : 3/5/2024 10:14 am Instrument : Pest 11
Sample : WG1892124-5,42,, msd Quant Date : 3/5/2024 10:54 am

Compound #45: delta-BHC #2



Original Peak Response = 273903224

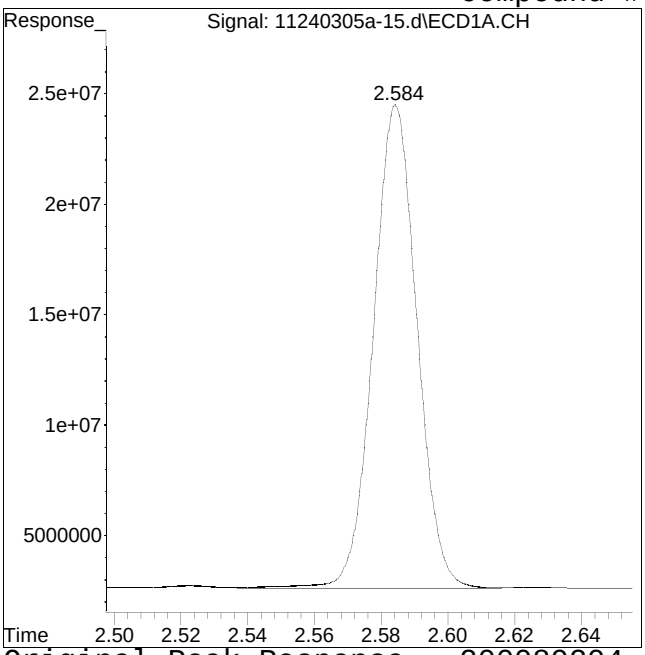


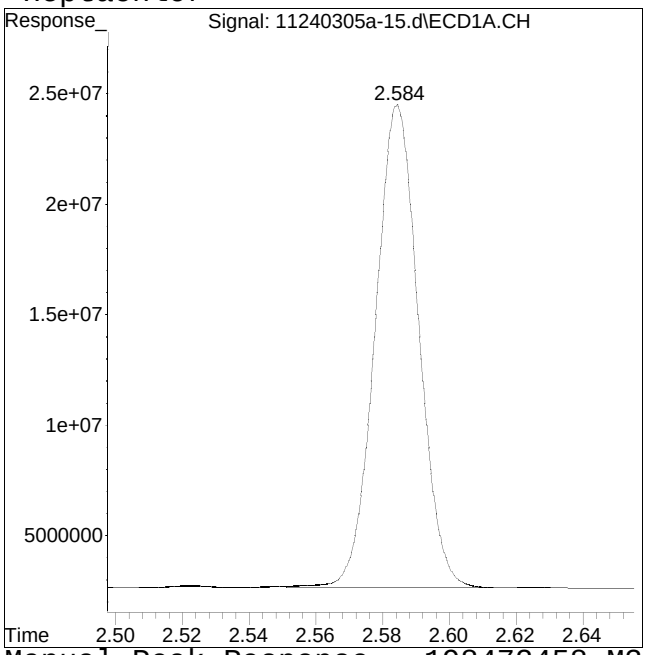
Manual Peak Response = 260012707 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-15.d Operator : PEST11:mmg
Date Inj'd : 3/5/2024 10:14 am Instrument : Pest 11
Sample : WG1892124-5,42,, msd Quant Date : 3/5/2024 10:54 am

Compound #8: Heptachlor



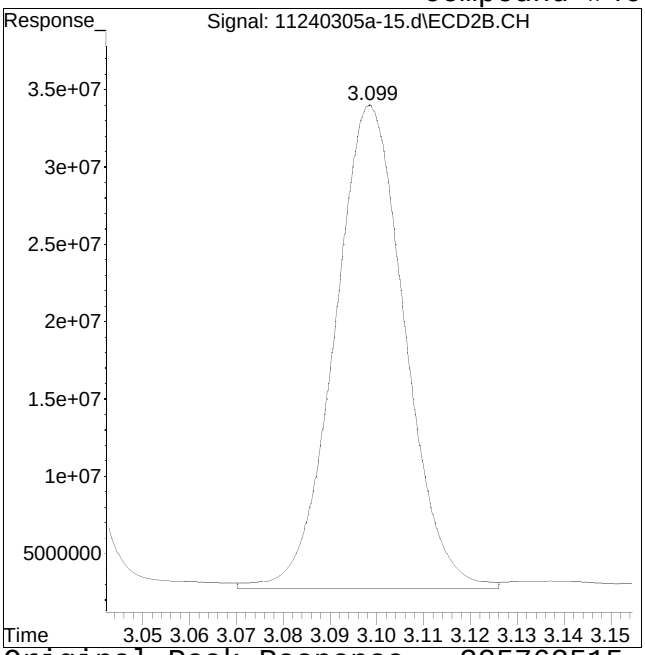


Original Peak Response = 200089204 Manual Peak Response = 198472458 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

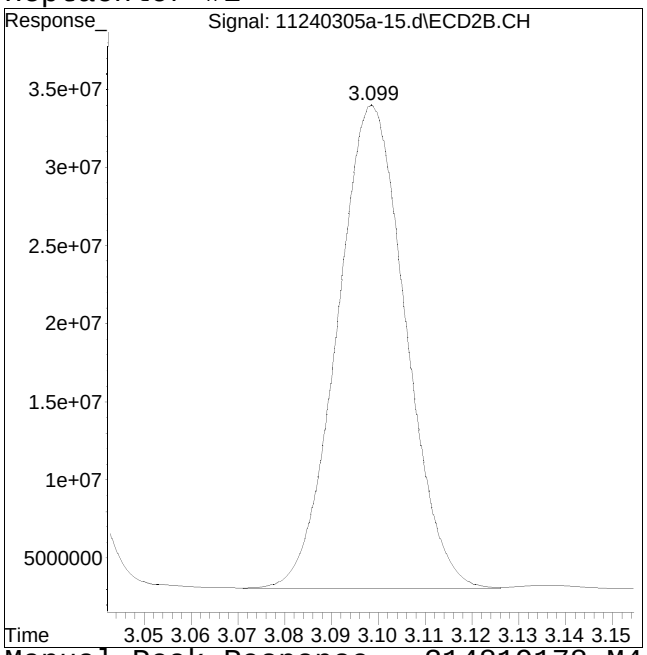
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-15.d Operator : PEST11:mmg
Date Inj'd : 3/5/2024 10:14 am Instrument : Pest 11
Sample : WG1892124-5,42,, msd Quant Date : 3/5/2024 10:54 am

Compound #46: Heptachlor #2



Original Peak Response = 325762515

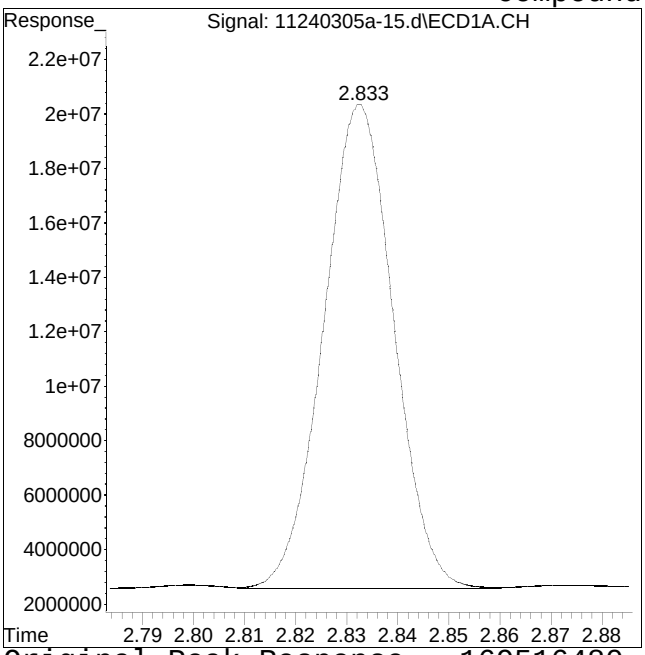


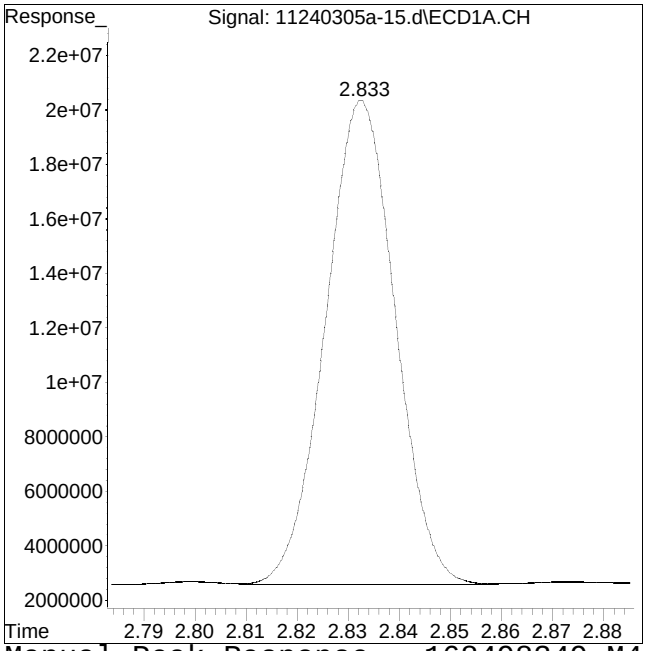
Manual Peak Response = 314819178 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-15.d Operator : PEST11:mmg
Date Inj'd : 3/5/2024 10:14 am Instrument : Pest 11
Sample : WG1892124-5,42,, msd Quant Date : 3/5/2024 10:54 am

Compound #9: Aldrin



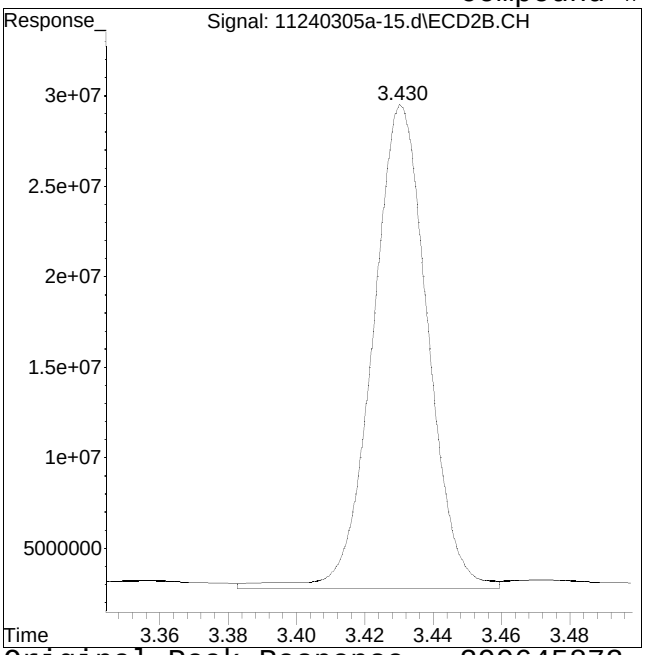


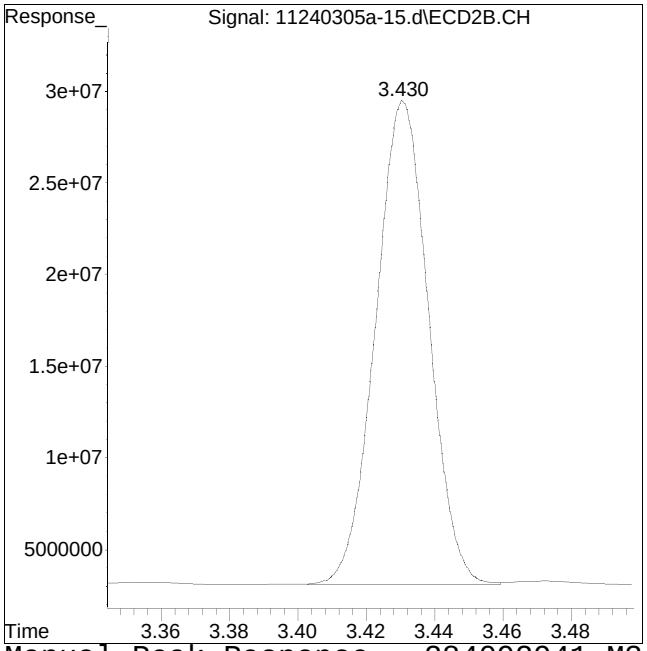
Original Peak Response = 169516480 Manual Peak Response = 168498349 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-15.d Operator : PEST11:mmg
Date Inj'd : 3/5/2024 10:14 am Instrument : Pest 11
Sample : WG1892124-5,42,, msd Quant Date : 3/5/2024 10:54 am

Compound #47: Aldrin #2



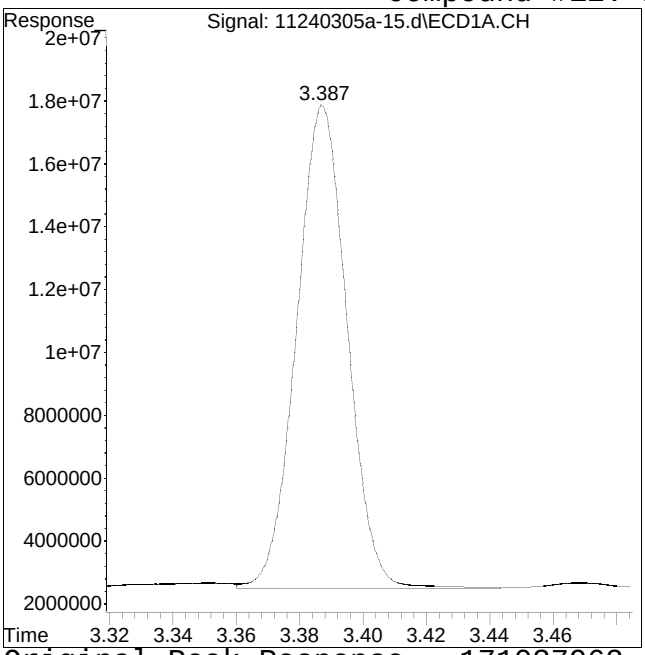


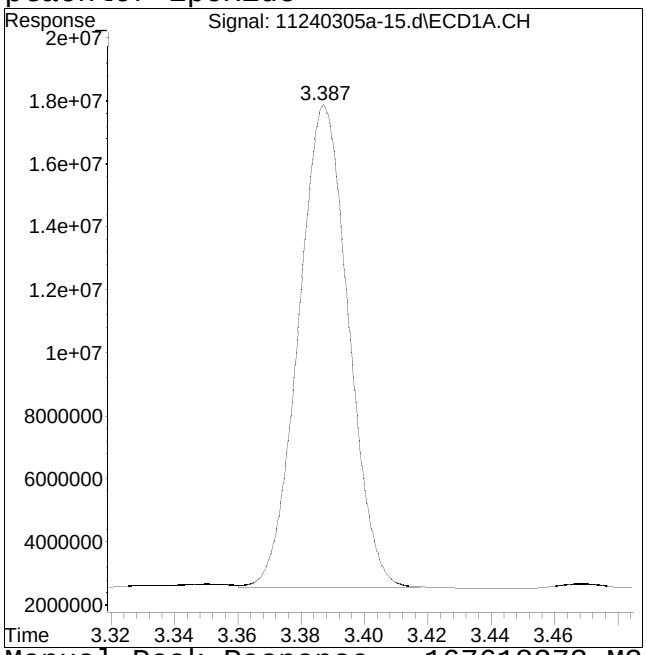
Original Peak Response = 299645872 Manual Peak Response = 284092941 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-15.d Operator : PEST11:mmg
Date Inj'd : 3/5/2024 10:14 am Instrument : Pest 11
Sample : WG1892124-5,42,, msd Quant Date : 3/5/2024 10:54 am

Compound #12: Heptachlor Epoxide



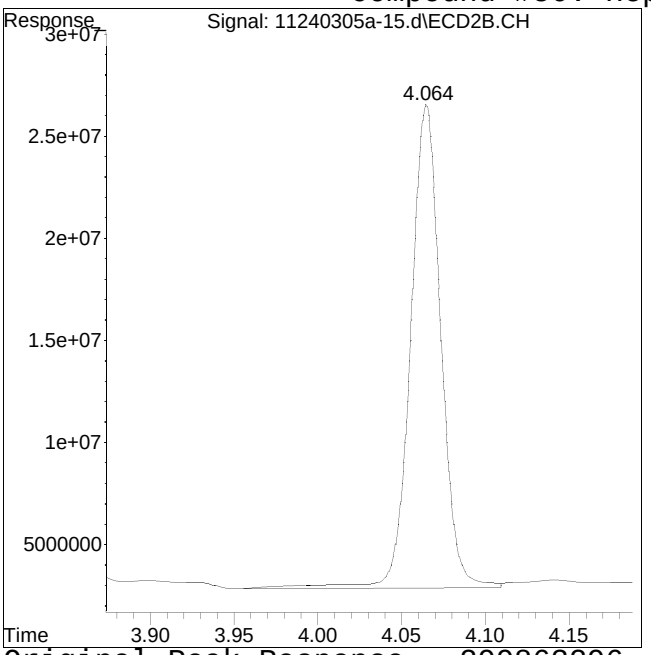


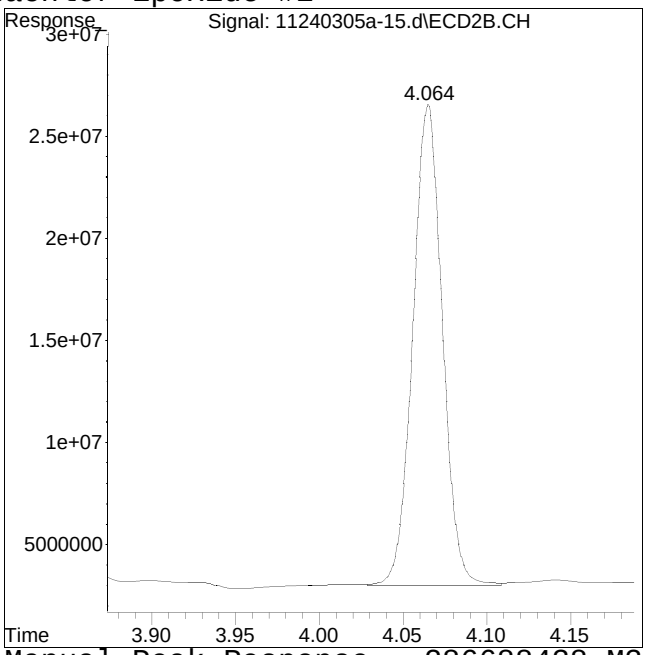
Original Peak Response = 171037962 Manual Peak Response = 167618273 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-15.d Operator : PEST11:mmg
Date Inj'd : 3/5/2024 10:14 am Instrument : Pest 11
Sample : WG1892124-5,42,, msd Quant Date : 3/5/2024 10:54 am

Compound #50: Heptachlor Epoxide #2



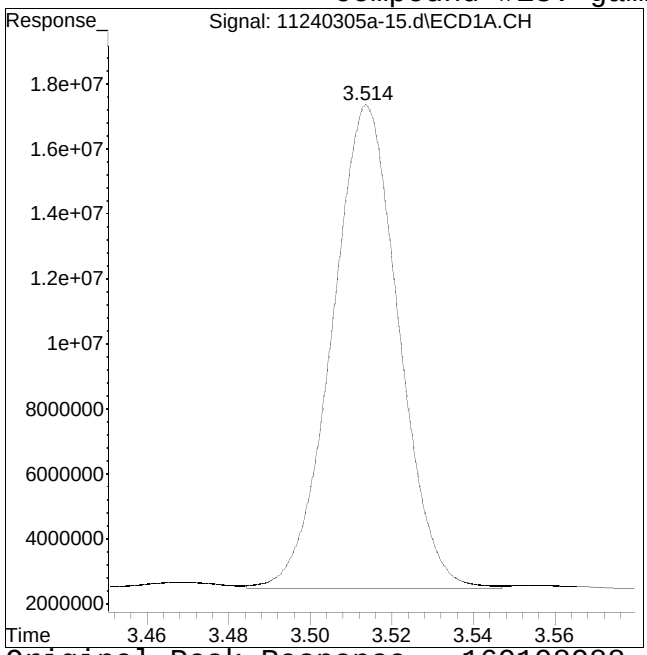


Original Peak Response = 299863296 Manual Peak Response = 286688438 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

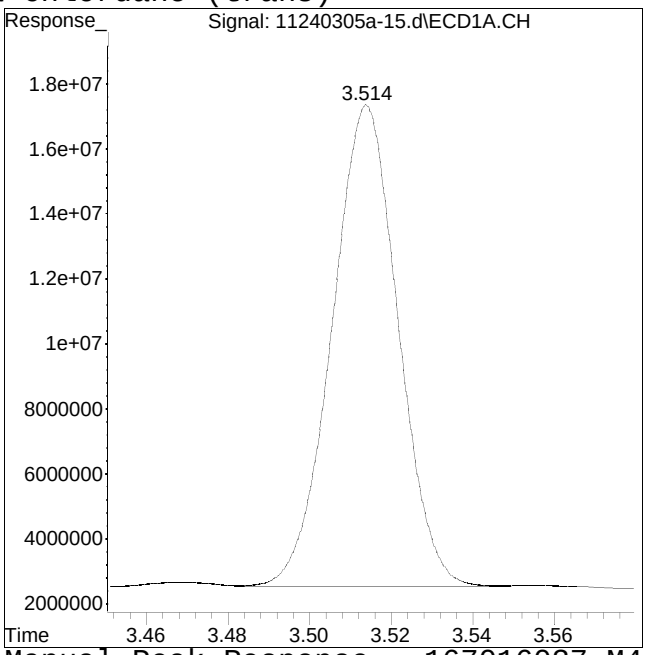
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-15.d Operator : PEST11:mmg
Date Inj'd : 3/5/2024 10:14 am Instrument : Pest 11
Sample : WG1892124-5,42,, msd Quant Date : 3/5/2024 10:54 am

Compound #13: gamma-Chlordane (trans)



Original Peak Response = 169198988



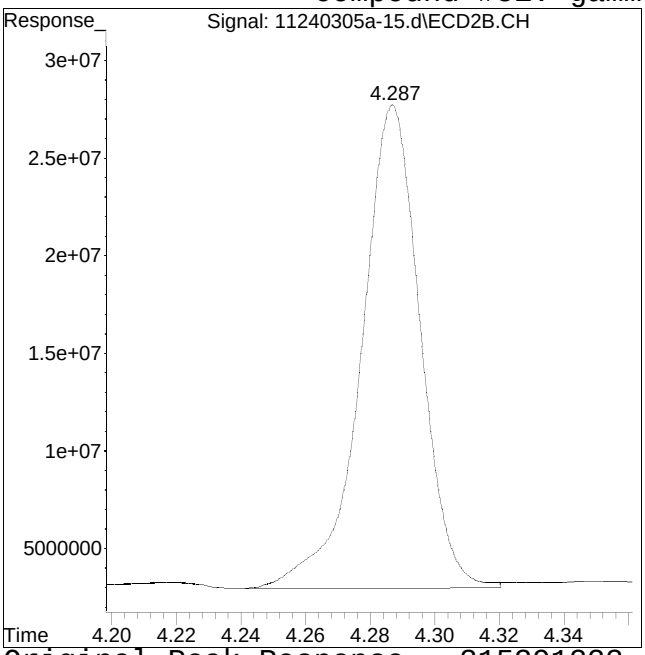
Manual Peak Response = 167016037 M4

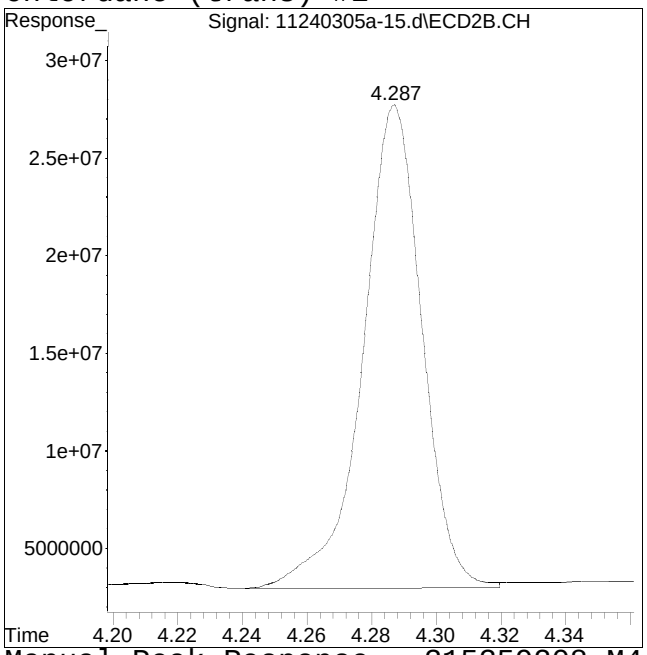
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-15.d Operator : PEST11:mmg
Date Inj'd : 3/5/2024 10:14 am Instrument : Pest 11
Sample : WG1892124-5,42,, msd Quant Date : 3/5/2024 10:54 am

Compound #51: gamma-Chlordane (trans) #2



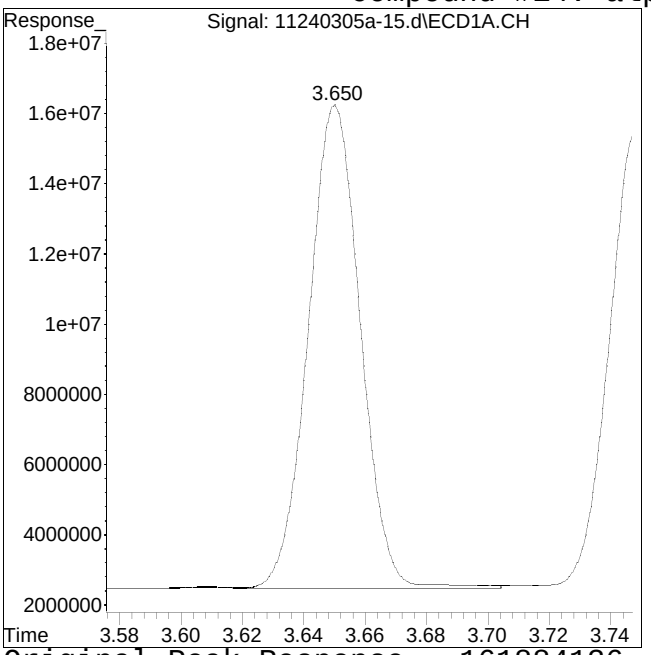


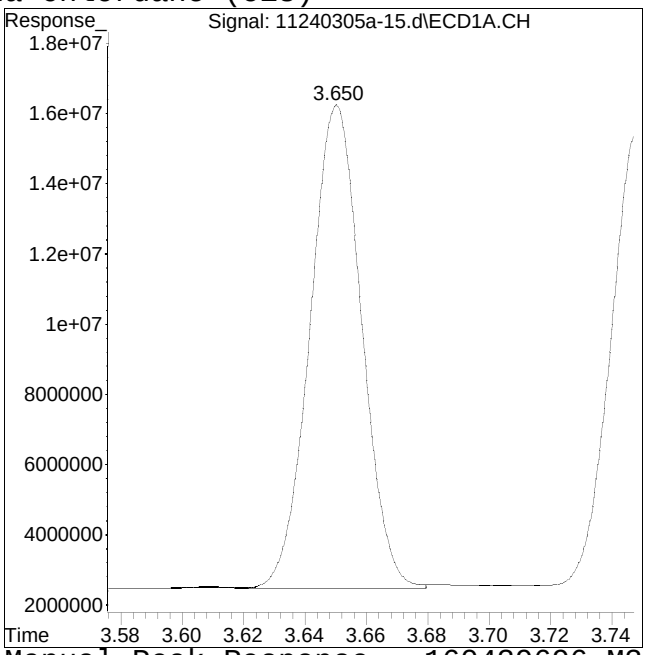
Original Peak Response = 315391223 Manual Peak Response = 315359208 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-15.d Operator : PEST11:mmg
Date Inj'd : 3/5/2024 10:14 am Instrument : Pest 11
Sample : WG1892124-5,42,, msd Quant Date : 3/5/2024 10:54 am

Compound #14: alpha-Chlordane (cis)



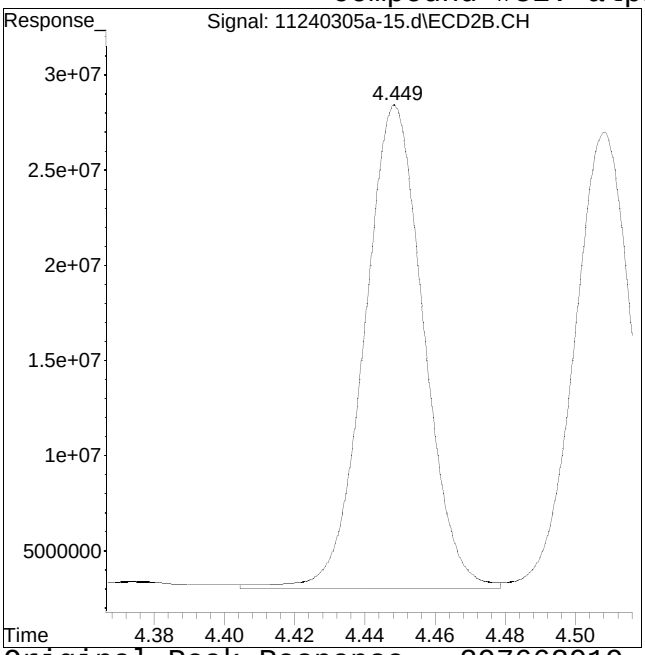


Original Peak Response = 161884136 Manual Peak Response = 160439696 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

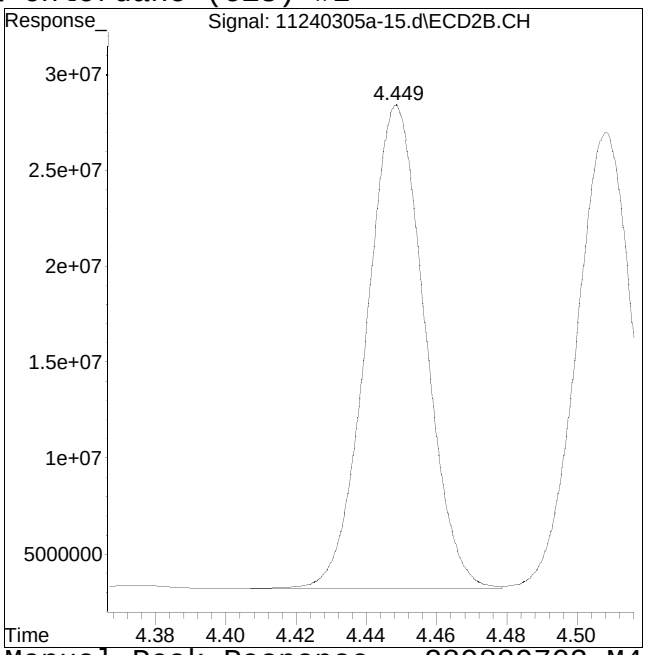
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-15.d Operator : PEST11:mmg
Date Inj'd : 3/5/2024 10:14 am Instrument : Pest 11
Sample : WG1892124-5,42,, msd Quant Date : 3/5/2024 10:54 am

Compound #52: alpha-Chlordane (cis) #2



Original Peak Response = 297662919



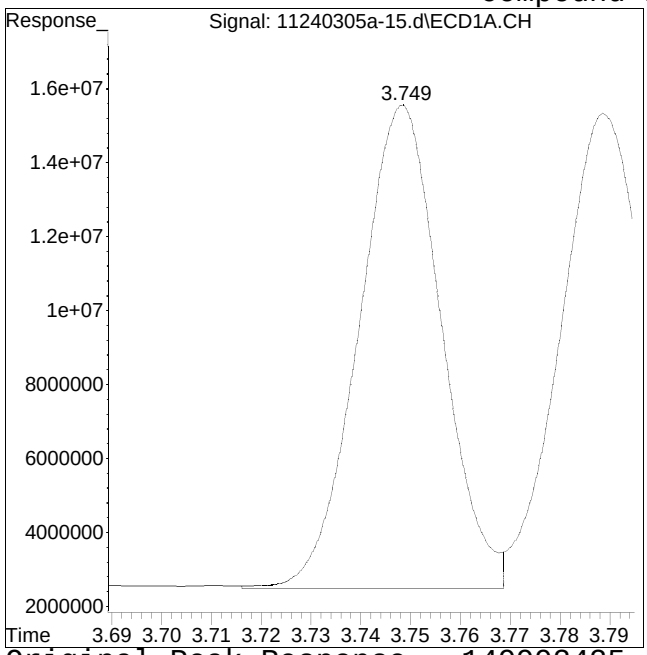
Manual Peak Response = 289839703 M4

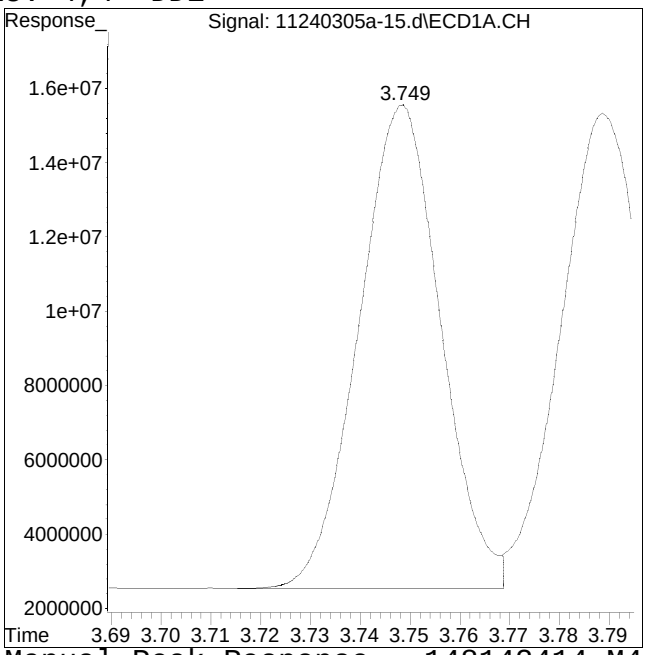
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-15.d Operator : PEST11:mmg
Date Inj'd : 3/5/2024 10:14 am Instrument : Pest 11
Sample : WG1892124-5,42,, msd Quant Date : 3/5/2024 10:54 am

Compound #15: 4,4'-DDE



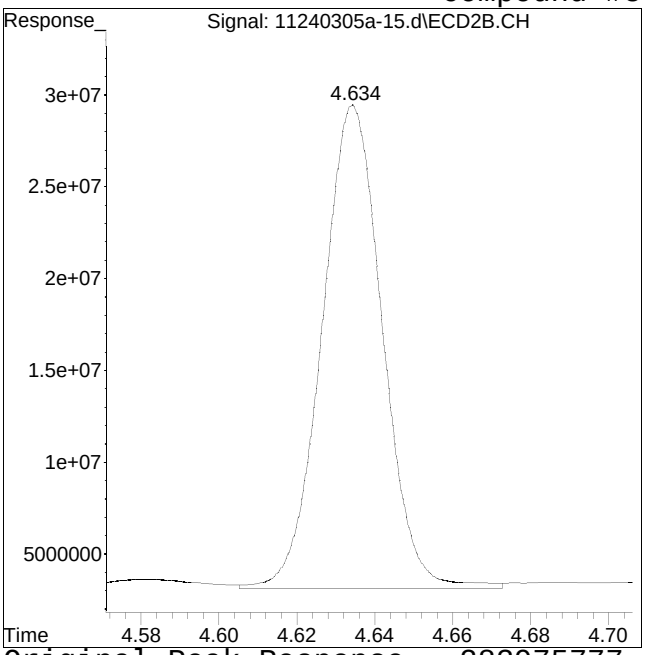


Original Peak Response = 149992425 Manual Peak Response = 148142414 M4
M4 = Poor automated baseline construction.

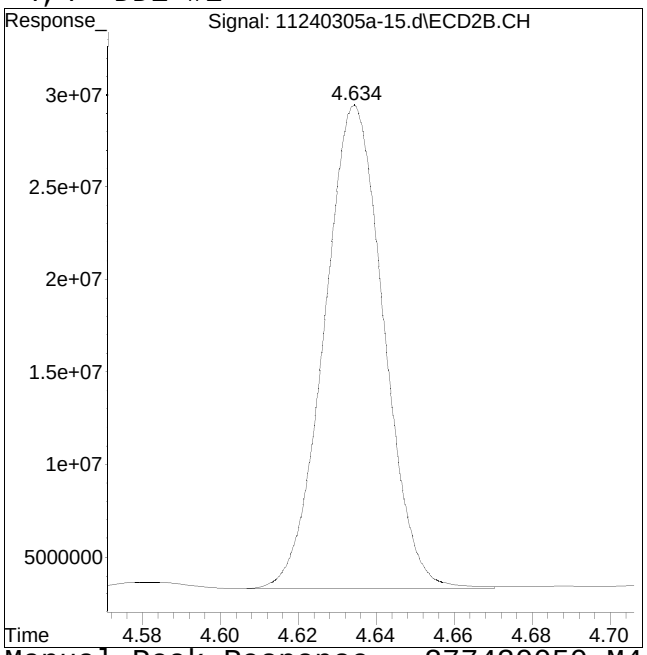
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-15.d Operator : PEST11:mmg
Date Inj'd : 3/5/2024 10:14 am Instrument : Pest 11
Sample : WG1892124-5,42,, msd Quant Date : 3/5/2024 10:54 am

Compound #53: 4,4'-DDE #2



Original Peak Response = 283975777

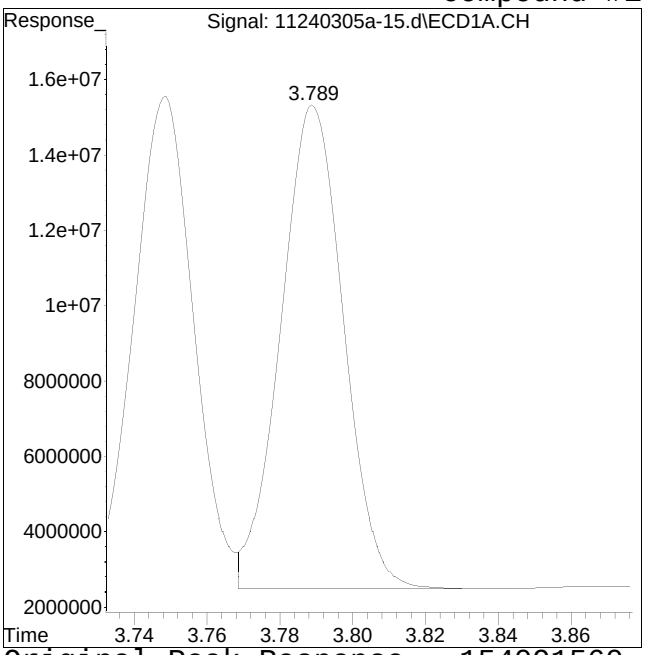


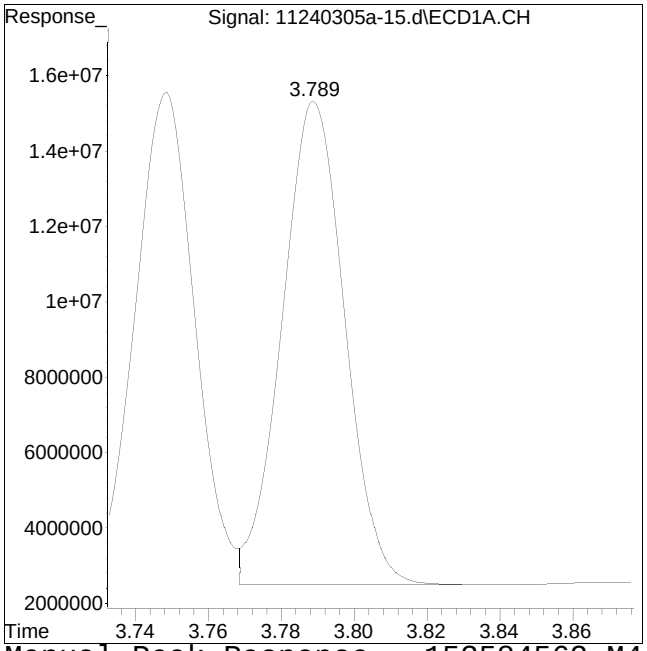
Manual Peak Response = 277430050 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-15.d Operator : PEST11:mmg
Date Inj'd : 3/5/2024 10:14 am Instrument : Pest 11
Sample : WG1892124-5,42,, msd Quant Date : 3/5/2024 10:54 am

Compound #16: Endosulfan I



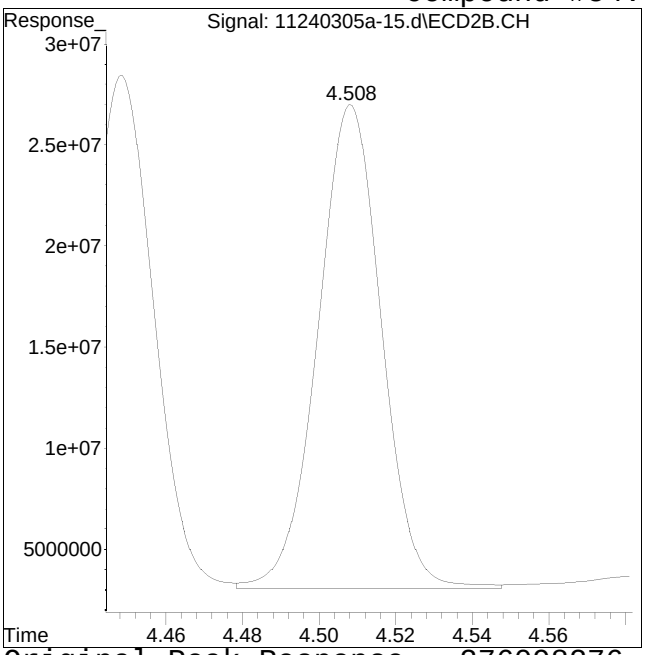


Original Peak Response = 154091560 Manual Peak Response = 153584562 M4
M4 = Poor automated baseline construction.

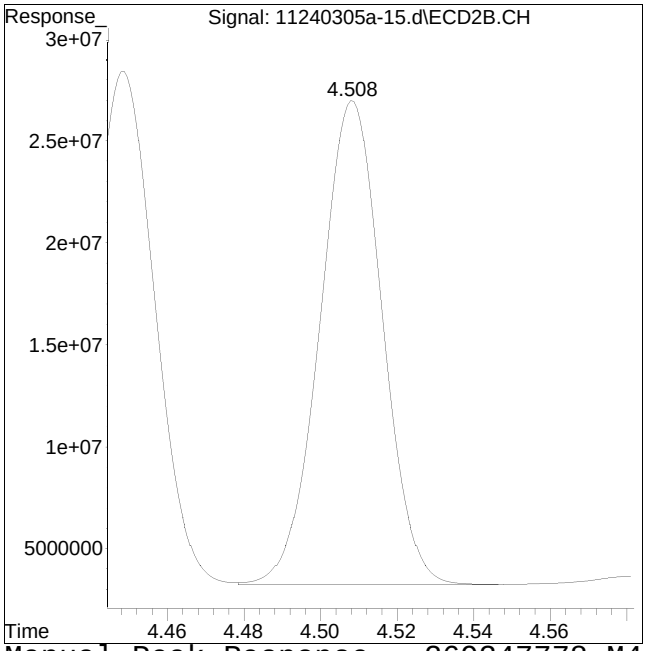
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-15.d Operator : PEST11:mmg
Date Inj'd : 3/5/2024 10:14 am Instrument : Pest 11
Sample : WG1892124-5,42,, msd Quant Date : 3/5/2024 10:54 am

Compound #54: Endosulfan I #2



Original Peak Response = 276098276



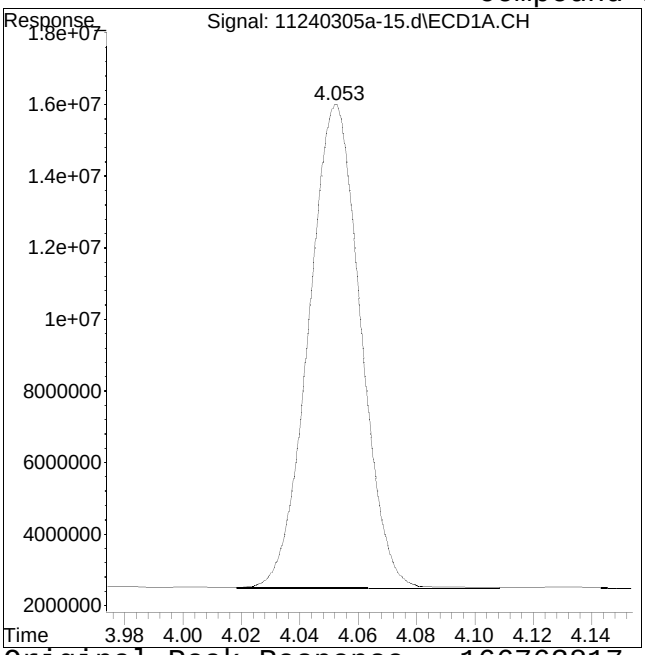
Manual Peak Response = 269347778 M4

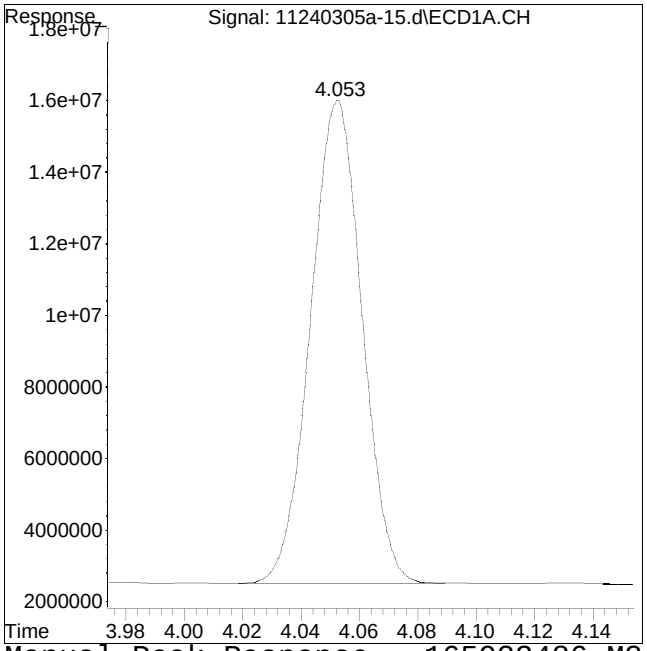
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-15.d Operator : PEST11:mmg
Date Inj'd : 3/5/2024 10:14 am Instrument : Pest 11
Sample : WG1892124-5,42,, msd Quant Date : 3/5/2024 10:54 am

Compound #17: Dieldrin



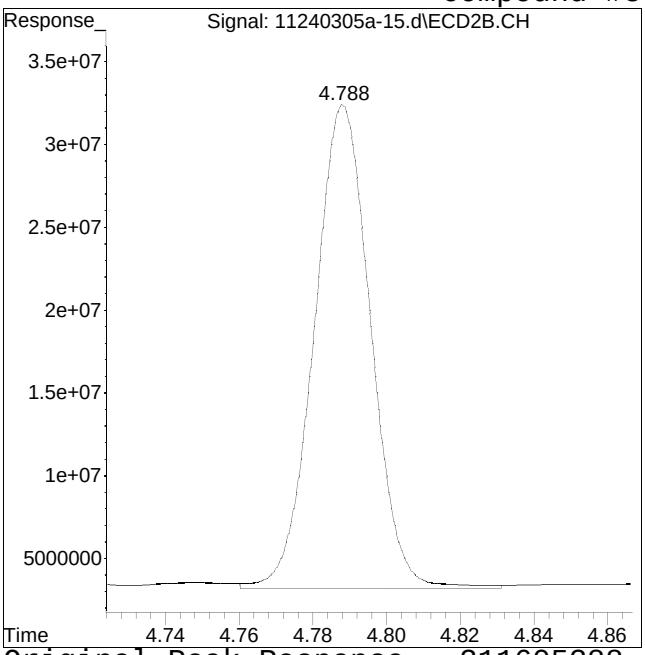


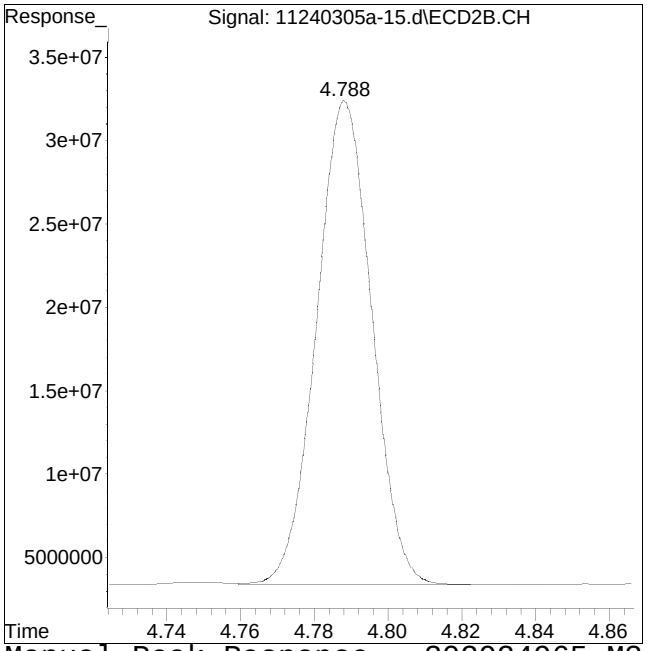
Original Peak Response = 166763817 Manual Peak Response = 165923486 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-15.d Operator : PEST11:mmg
Date Inj'd : 3/5/2024 10:14 am Instrument : Pest 11
Sample : WG1892124-5,42,, msd Quant Date : 3/5/2024 10:54 am

Compound #55: Dieldrin #2



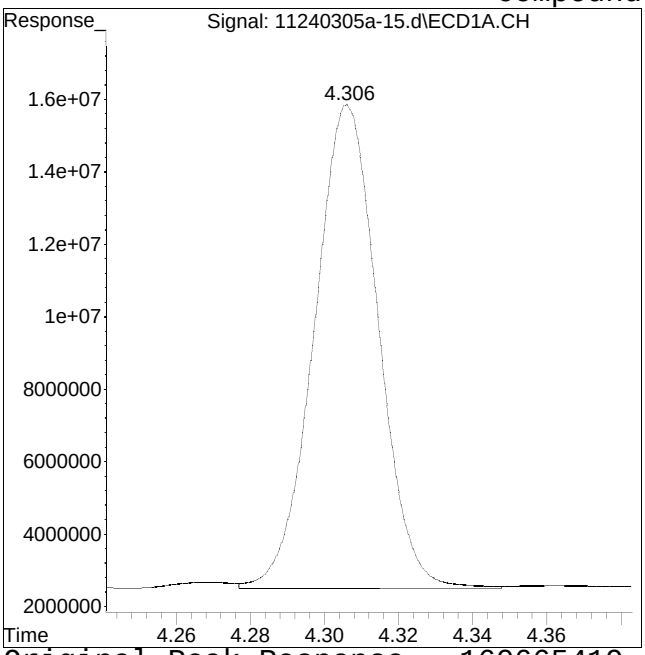


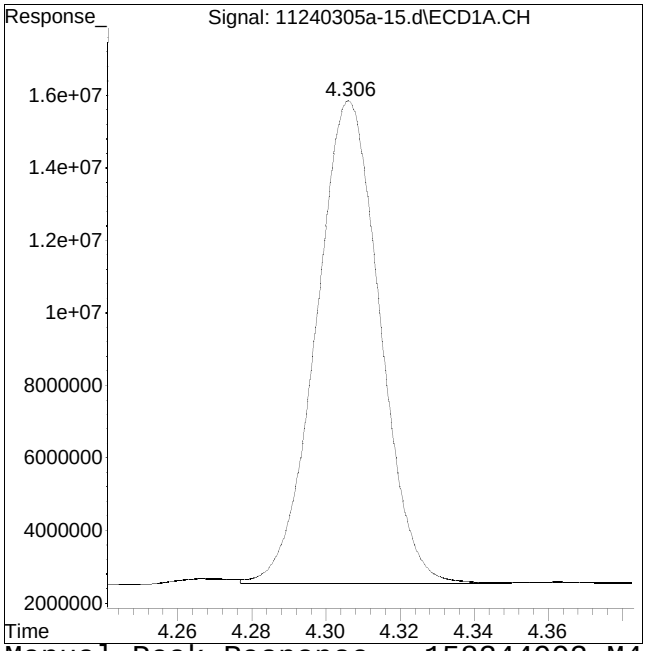
Original Peak Response = 311605388 Manual Peak Response = 302924965 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-15.d Operator : PEST11:mmg
Date Inj'd : 3/5/2024 10:14 am Instrument : Pest 11
Sample : WG1892124-5,42,, msd Quant Date : 3/5/2024 10:54 am

Compound #18: Endrin



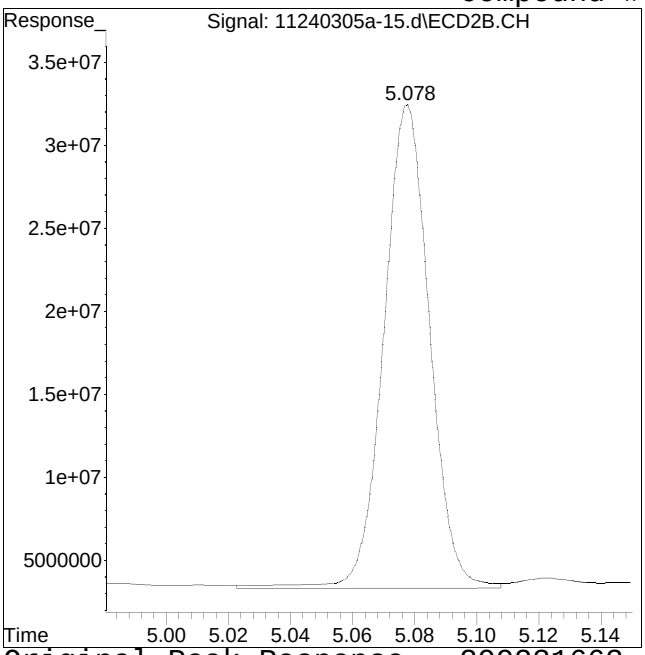


Original Peak Response = 160665419 Manual Peak Response = 158344993 M4
M4 = Poor automated baseline construction.

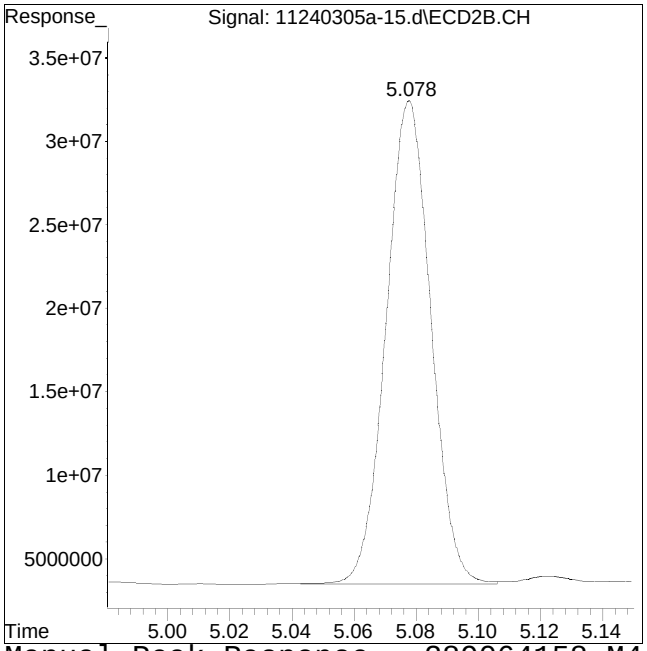
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-15.d Operator : PEST11:mmg
Date Inj'd : 3/5/2024 10:14 am Instrument : Pest 11
Sample : WG1892124-5,42,, msd Quant Date : 3/5/2024 10:54 am

Compound #56: Endrin #2



Original Peak Response = 299231663



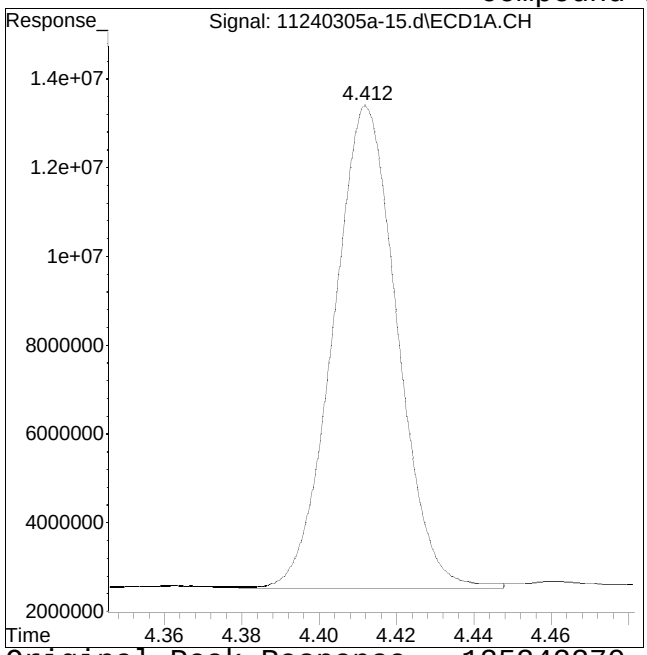
Manual Peak Response = 289064158 M4

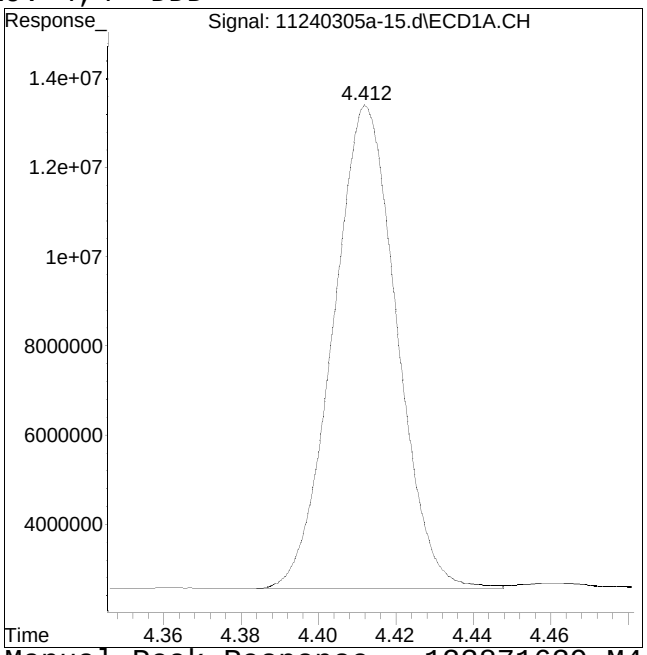
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-15.d Operator : PEST11:mmg
Date Inj'd : 3/5/2024 10:14 am Instrument : Pest 11
Sample : WG1892124-5,42,, msd Quant Date : 3/5/2024 10:54 am

Compound #19: 4,4'-DDD



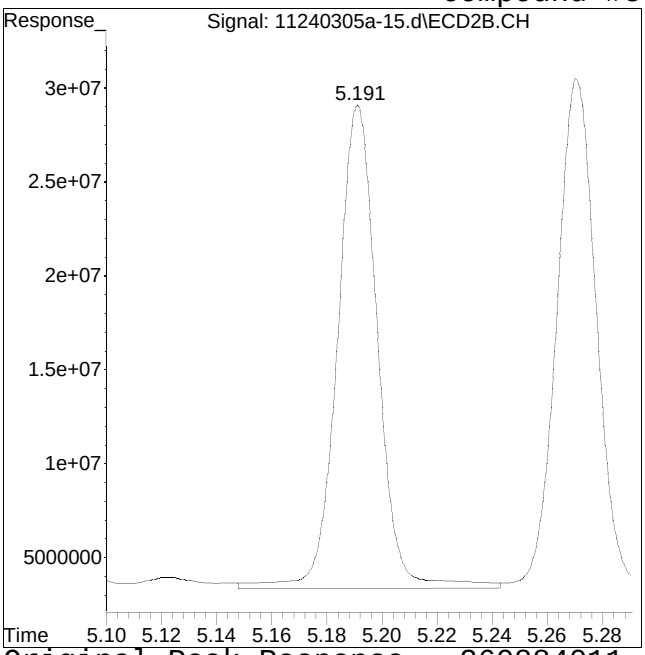


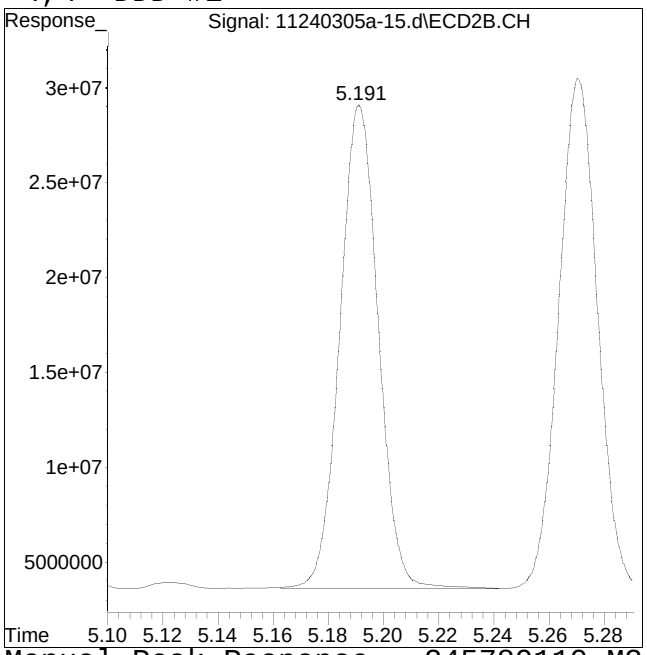
Original Peak Response = 125242270 Manual Peak Response = 123871639 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-15.d Operator : PEST11:mmg
Date Inj'd : 3/5/2024 10:14 am Instrument : Pest 11
Sample : WG1892124-5,42,, msd Quant Date : 3/5/2024 10:54 am

Compound #57: 4,4'-DDD #2



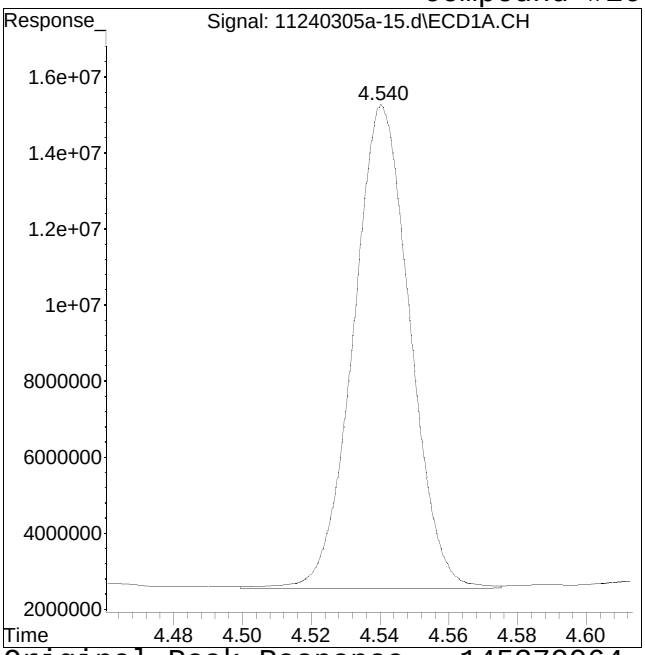


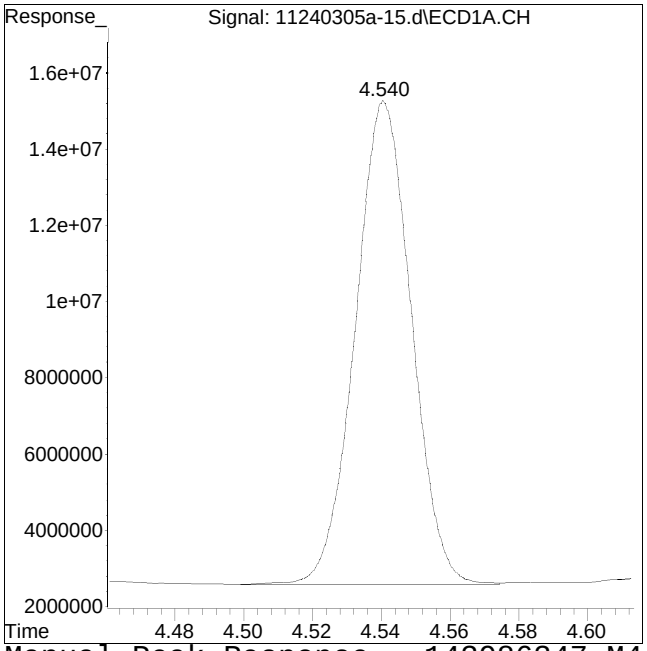
Original Peak Response = 260884011 Manual Peak Response = 245789110 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-15.d Operator : PEST11:mmg
Date Inj'd : 3/5/2024 10:14 am Instrument : Pest 11
Sample : WG1892124-5,42,, msd Quant Date : 3/5/2024 10:54 am

Compound #20: Endosulfan II



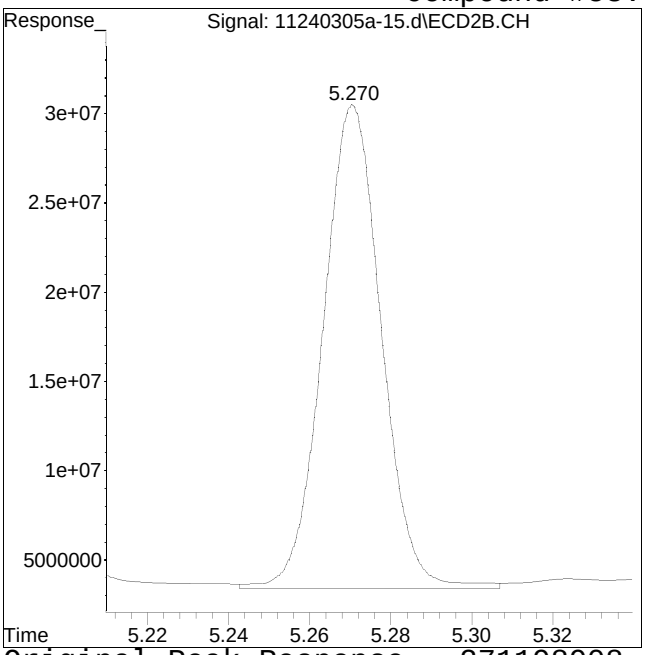


Original Peak Response = 145379964 Manual Peak Response = 143986347 M4
M4 = Poor automated baseline construction.

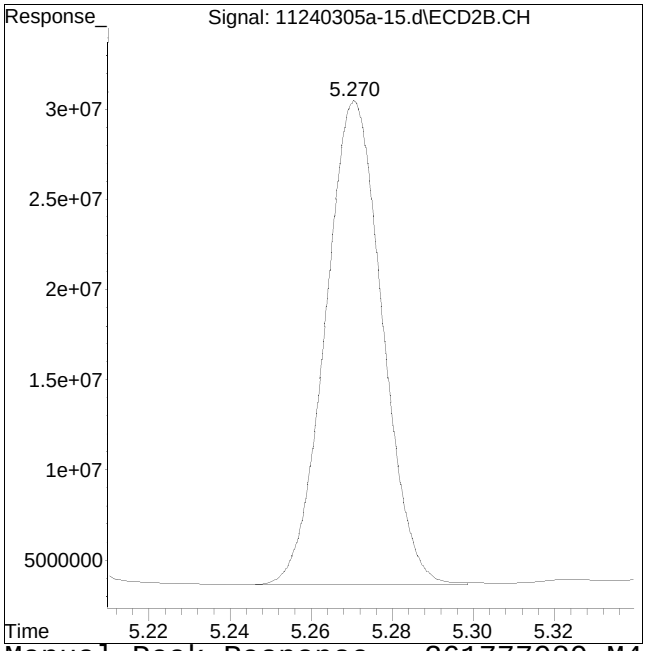
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-15.d Operator : PEST11:mmg
Date Inj'd : 3/5/2024 10:14 am Instrument : Pest 11
Sample : WG1892124-5,42,, msd Quant Date : 3/5/2024 10:54 am

Compound #58: Endosulfan II #2



Original Peak Response = 271198908

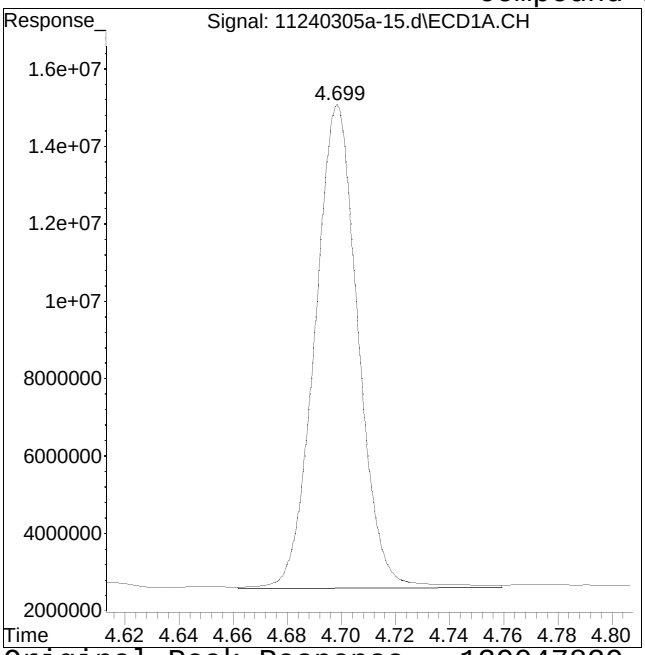


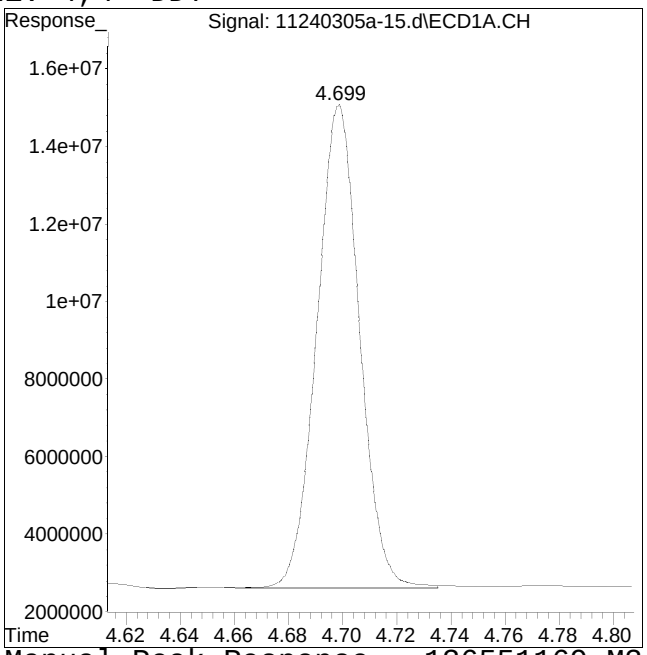
Manual Peak Response = 261777080 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-15.d Operator : PEST11:mmg
Date Inj'd : 3/5/2024 10:14 am Instrument : Pest 11
Sample : WG1892124-5,42,, msd Quant Date : 3/5/2024 10:54 am

Compound #21: 4,4'-DDT



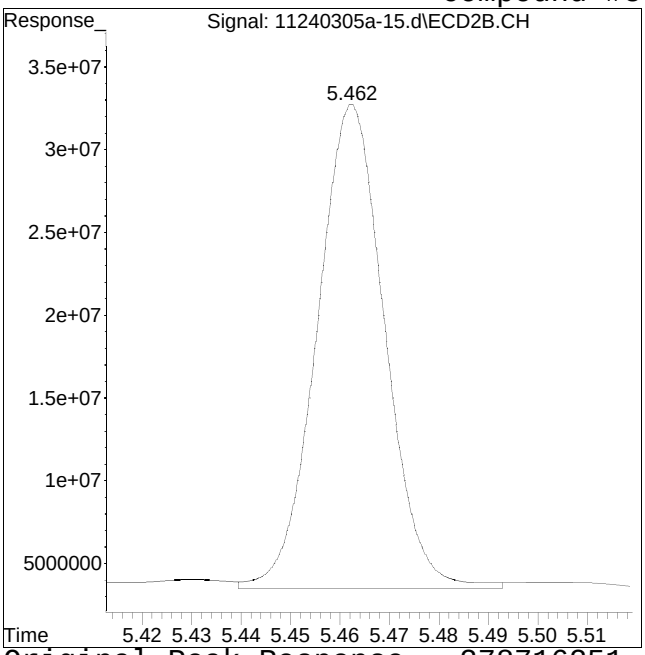


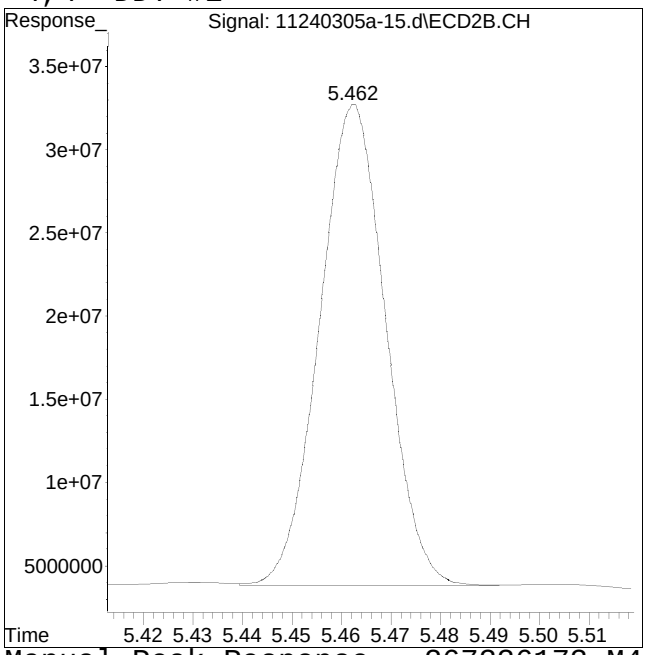
Original Peak Response = 139047829 Manual Peak Response = 136551169 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-15.d Operator : PEST11:mmg
Date Inj'd : 3/5/2024 10:14 am Instrument : Pest 11
Sample : WG1892124-5,42,, msd Quant Date : 3/5/2024 10:54 am

Compound #59: 4,4'-DDT #2



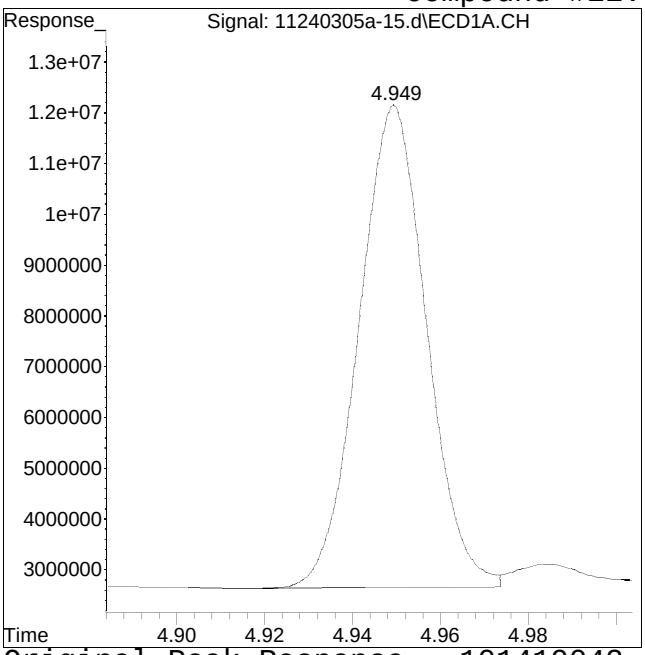


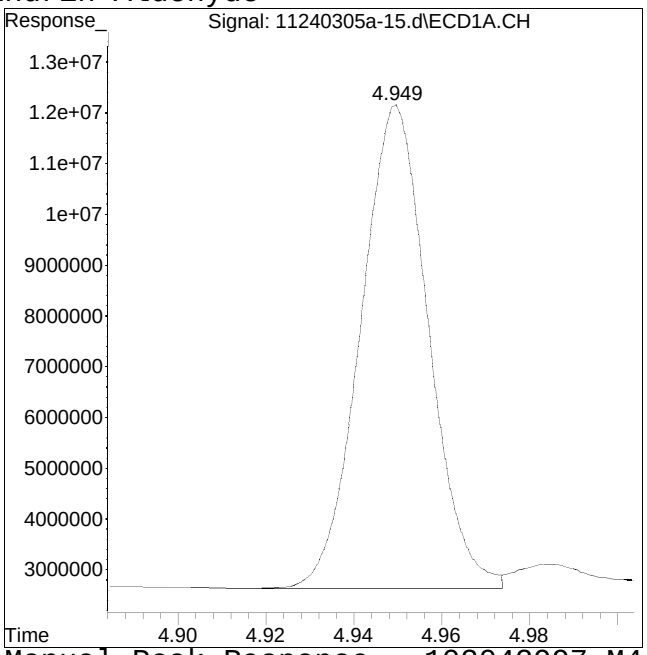
Original Peak Response = 278716251 Manual Peak Response = 267336173 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-15.d Operator : PEST11:mmg
Date Inj'd : 3/5/2024 10:14 am Instrument : Pest 11
Sample : WG1892124-5,42,, msd Quant Date : 3/5/2024 10:54 am

Compound #22: Endrin Aldehyde



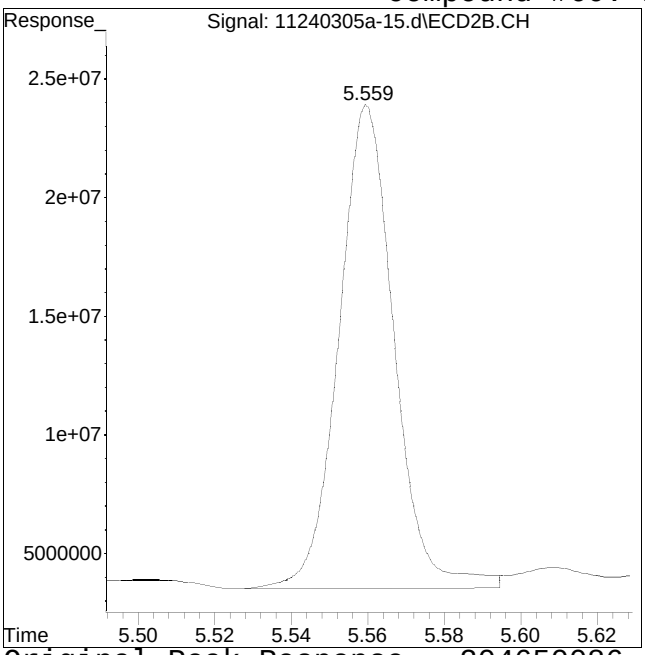


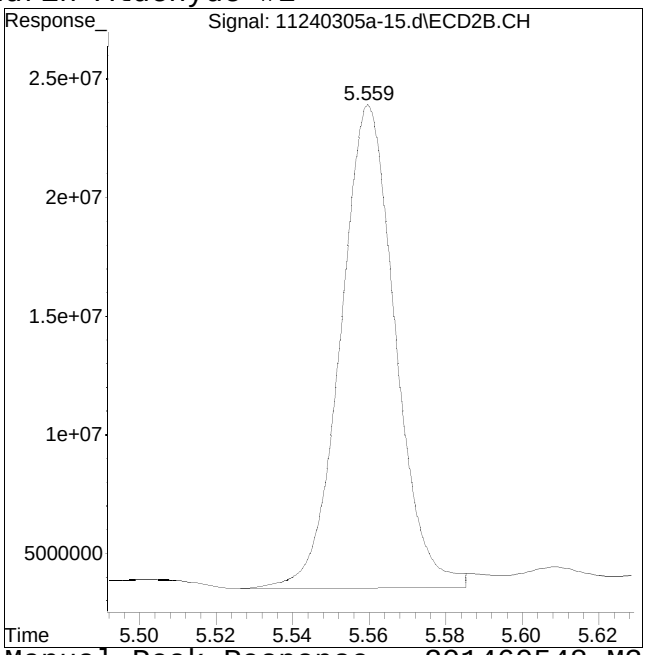
Original Peak Response = 101419042 Manual Peak Response = 102042997 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-15.d Operator : PEST11:mmg
Date Inj'd : 3/5/2024 10:14 am Instrument : Pest 11
Sample : WG1892124-5,42,, msd Quant Date : 3/5/2024 10:54 am

Compound #60: Endrin Aldehyde #2



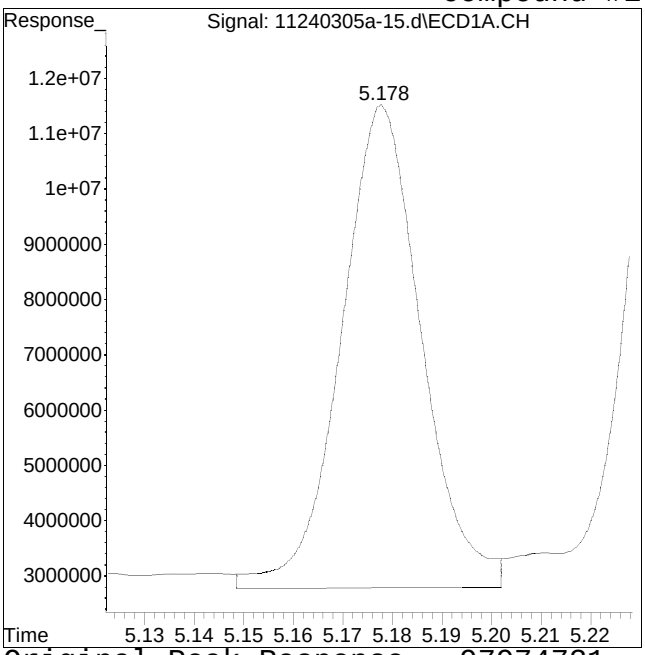


Original Peak Response = 204650086 Manual Peak Response = 201460548 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

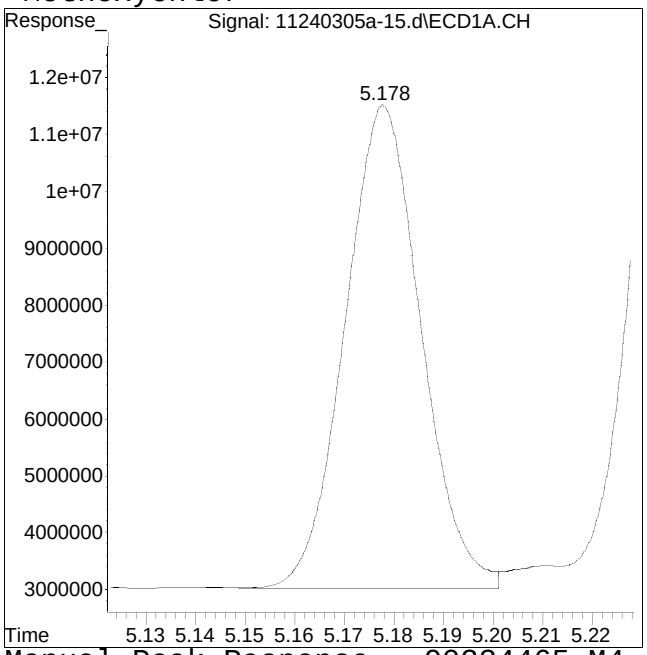
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-15.d Operator : PEST11:mmg
Date Inj'd : 3/5/2024 10:14 am Instrument : Pest 11
Sample : WG1892124-5,42,, msd Quant Date : 3/5/2024 10:54 am

Compound #23: Methoxychlor



Original Peak Response = 97974731



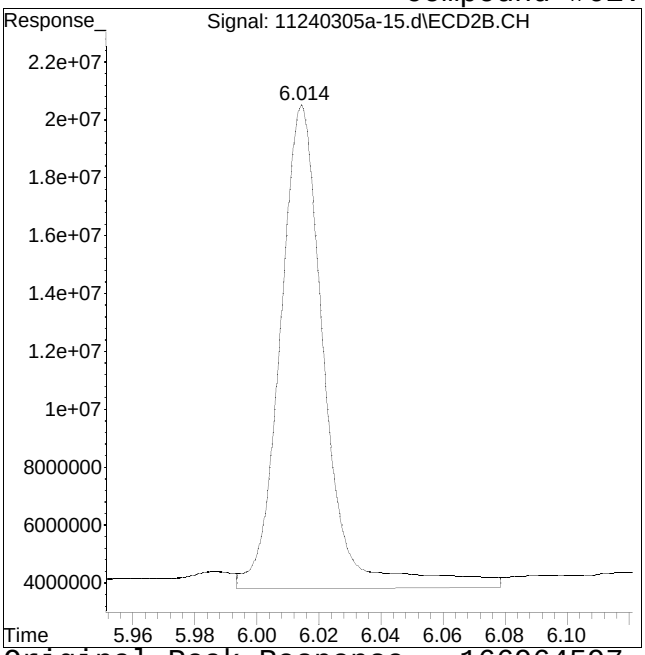
Manual Peak Response = 90234465 M4

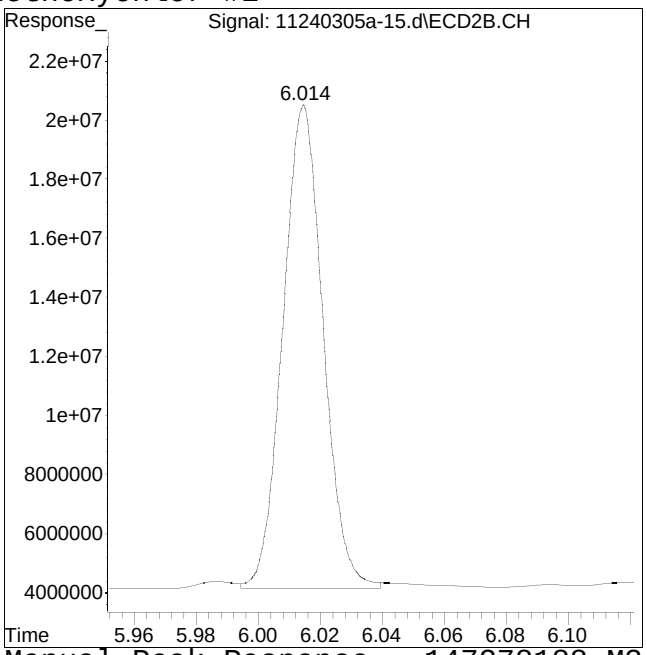
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-15.d Operator : PEST11:mmg
Date Inj'd : 3/5/2024 10:14 am Instrument : Pest 11
Sample : WG1892124-5,42,, msd Quant Date : 3/5/2024 10:54 am

Compound #61: Methoxychlor #2



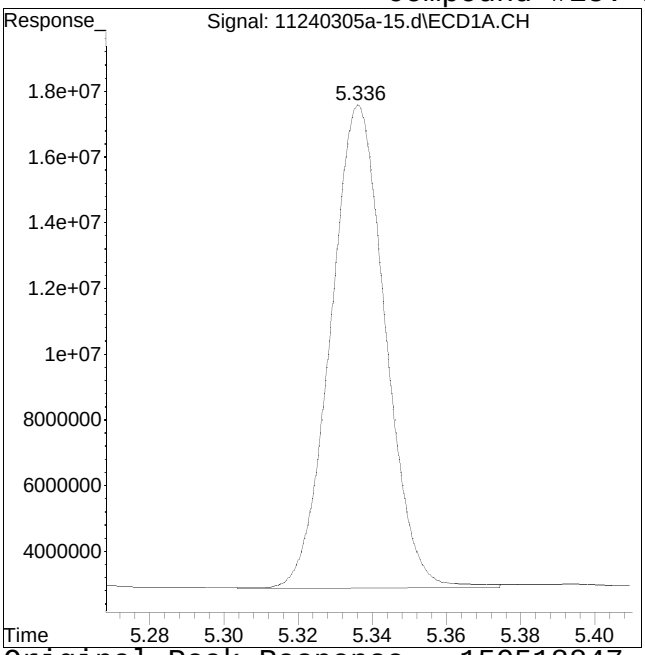


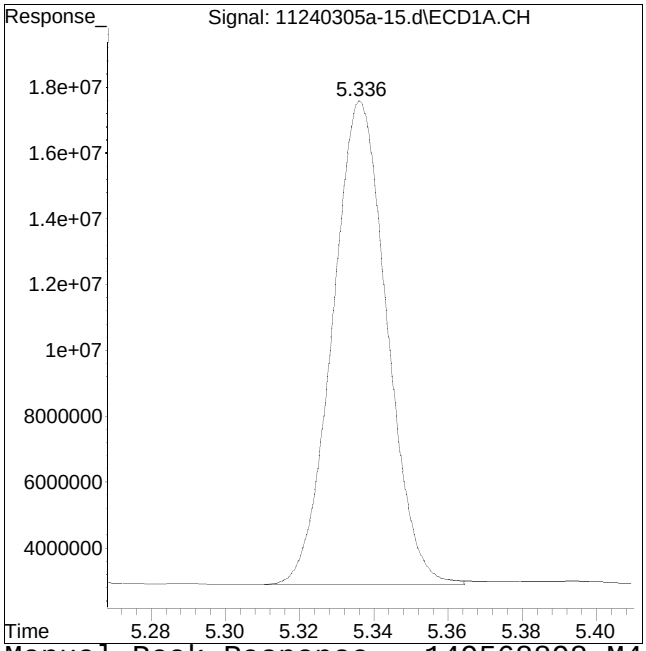
Original Peak Response = 166964597 Manual Peak Response = 147278188 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-15.d Operator : PEST11:mmg
Date Inj'd : 3/5/2024 10:14 am Instrument : Pest 11
Sample : WG1892124-5,42,, msd Quant Date : 3/5/2024 10:54 am

Compound #25: Endosulfan Sulfate



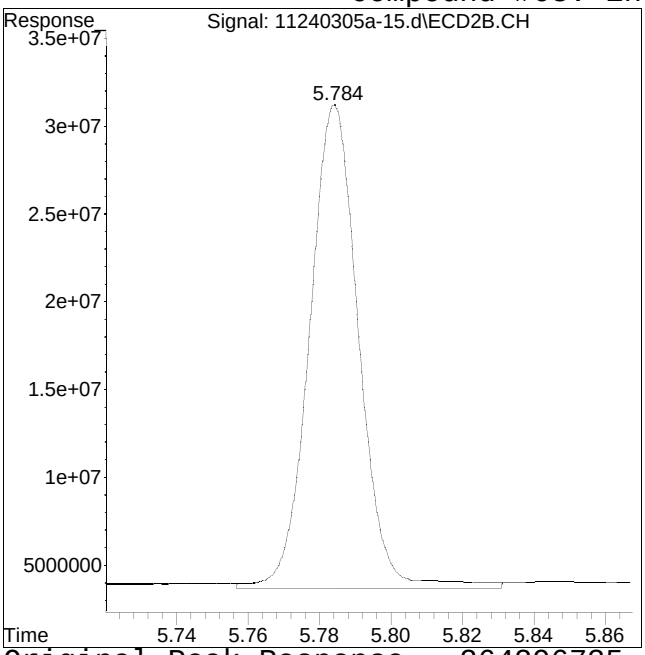


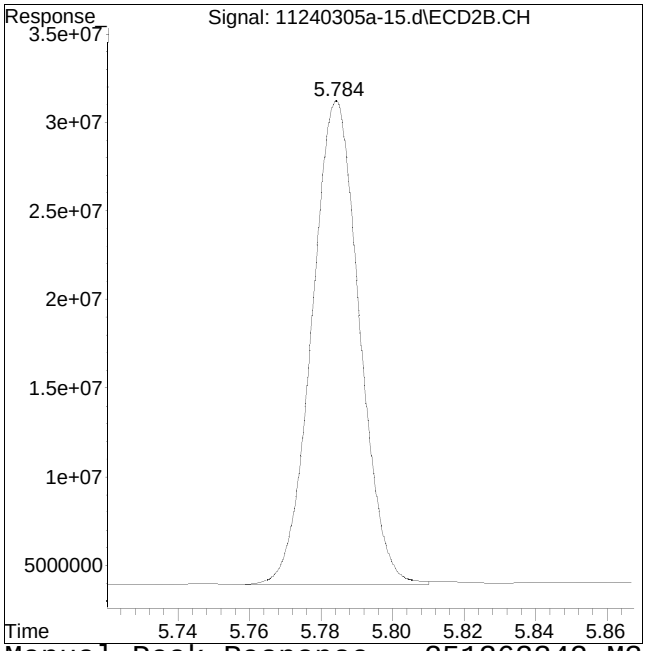
Original Peak Response = 150518847 Manual Peak Response = 149568898 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-15.d Operator : PEST11:mmg
Date Inj'd : 3/5/2024 10:14 am Instrument : Pest 11
Sample : WG1892124-5,42,, msd Quant Date : 3/5/2024 10:54 am

Compound #63: Endosulfan Sulfate #2



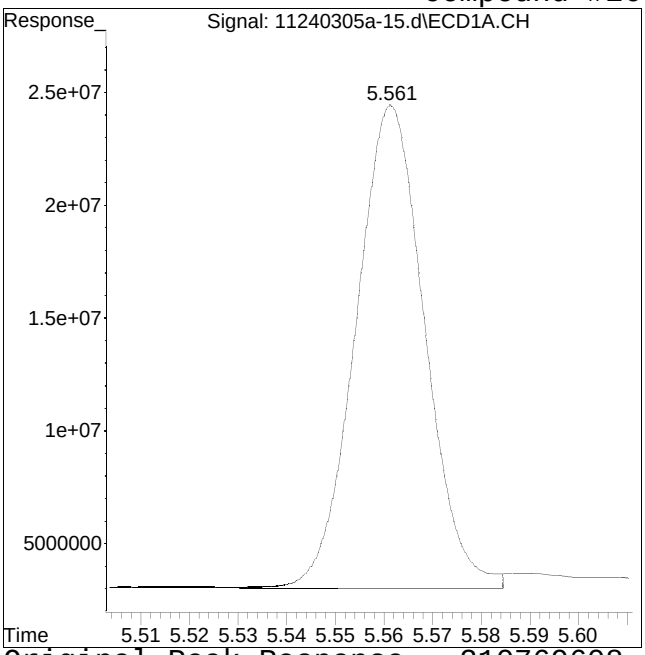


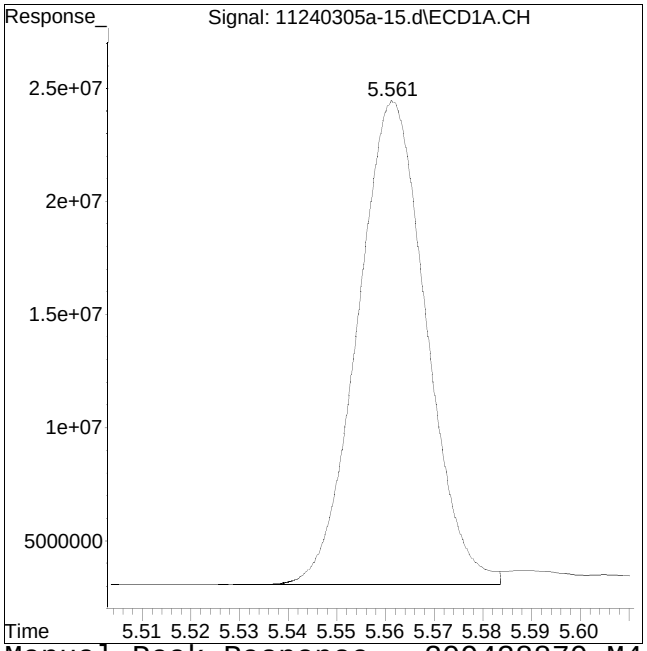
Original Peak Response = 264296735 Manual Peak Response = 251363342 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-15.d Operator : PEST11:mmg
Date Inj'd : 3/5/2024 10:14 am Instrument : Pest 11
Sample : WG1892124-5,42,, msd Quant Date : 3/5/2024 10:54 am

Compound #26: Endrin Ketone



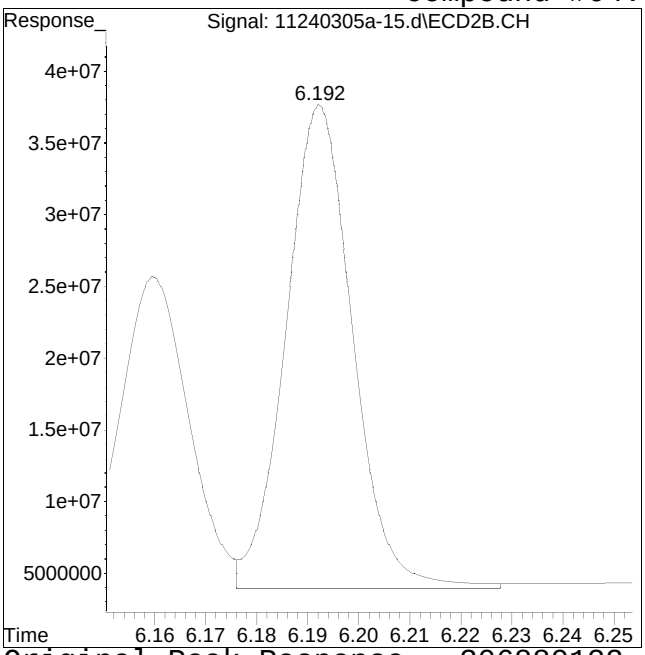


Original Peak Response = 210769608 Manual Peak Response = 209438870 M4
M4 = Poor automated baseline construction.

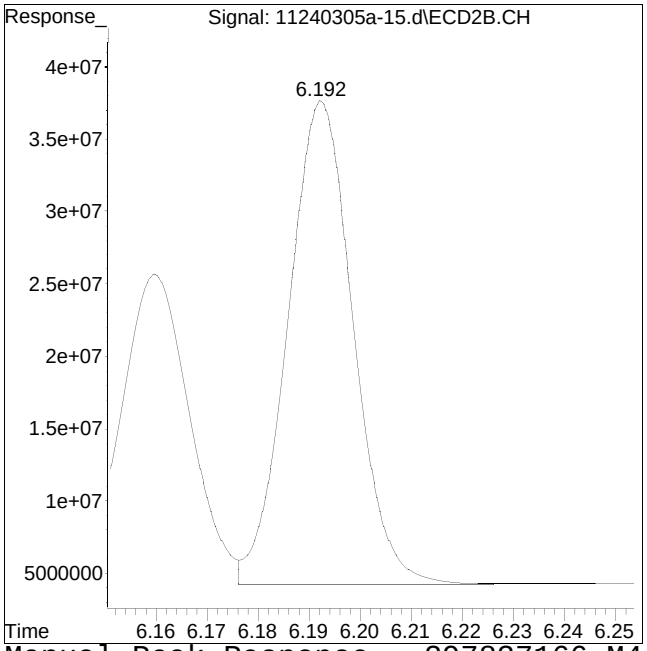
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-15.d Operator : PEST11:mmg
Date Inj'd : 3/5/2024 10:14 am Instrument : Pest 11
Sample : WG1892124-5,42,, msd Quant Date : 3/5/2024 10:54 am

Compound #64: Endrin Ketone #2



Original Peak Response = 306880122

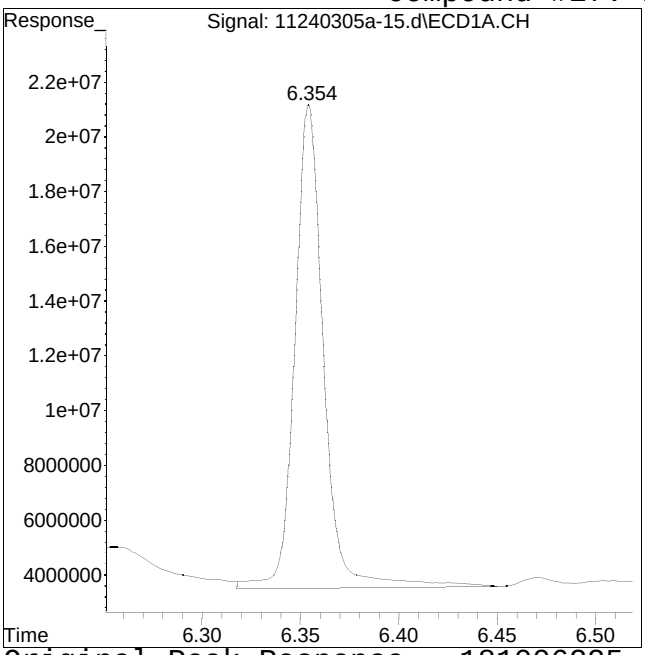


Manual Peak Response = 297837166 M4
M4 = Poor automated baseline construction.

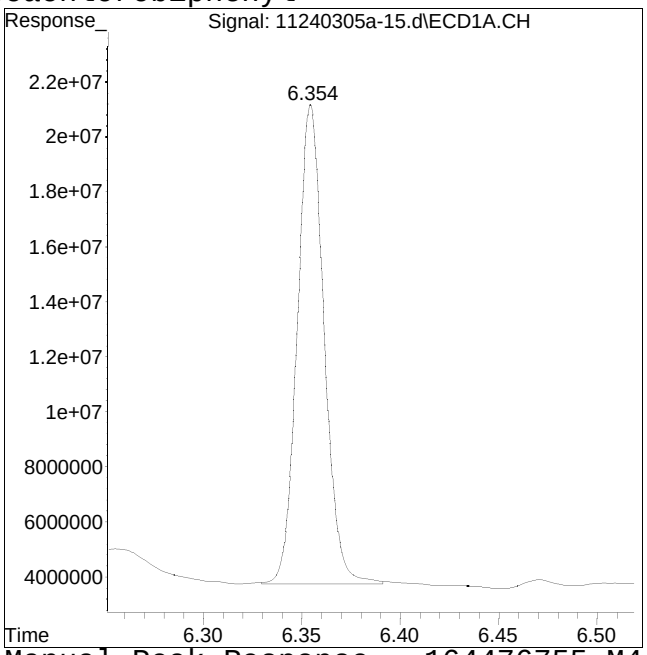
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-15.d Operator : PEST11:mmg
Date Inj'd : 3/5/2024 10:14 am Instrument : Pest 11
Sample : WG1892124-5,42,, msd Quant Date : 3/5/2024 10:54 am

Compound #27: Decachlorobiphenyl



Original Peak Response = 181006225



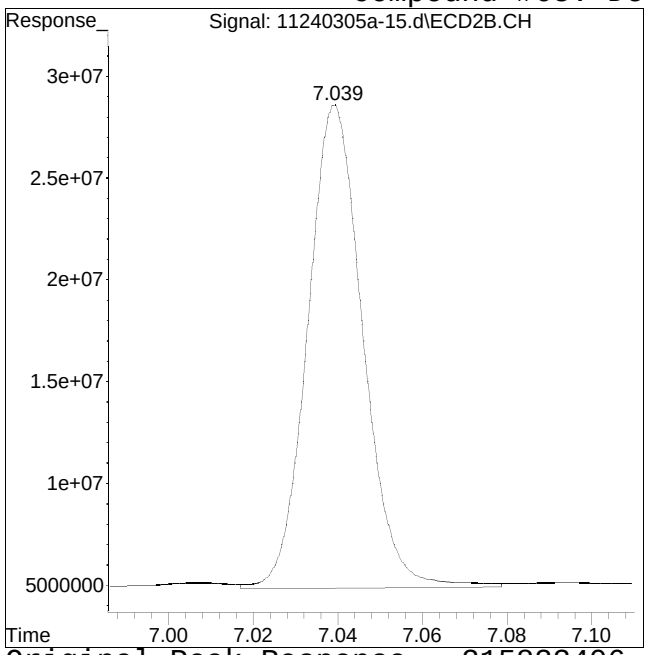
Manual Peak Response = 164476755 M4

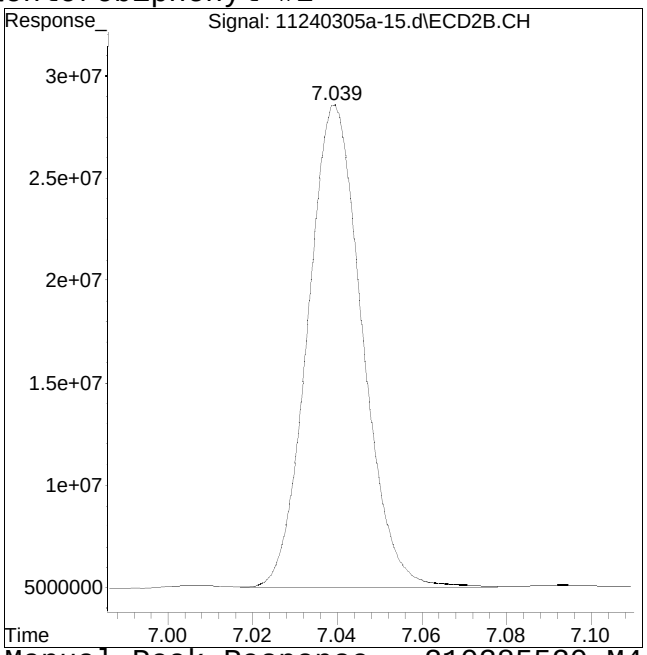
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240305QMethod : pest11_12_19_23_ugL_ICAL
Data File : 11240305a-15.d Operator : PEST11:mmg
Date Inj'd : 3/5/2024 10:14 am Instrument : Pest 11
Sample : WG1892124-5,42,, msd Quant Date : 3/5/2024 10:54 am

Compound #65: Decachlorobiphenyl #2





Original Peak Response = 215833406 Manual Peak Response = 210385520 M4
M4 = Poor automated baseline construction.

Calculation of PCB Aroclors & Pesticides

Aqueous Concentration Formula:
Amt * DF*(Vt/Vp)*(1000/Vo)*(Ve/1000)

Where:
DF = Dilution Factor
Vt = Extract Final Volume (mL)
Vp = Aliquot Cleaned (mL)
Vo = Volume of Sample (mL)
Ve = Extraction Lab Final Volume (mL)

Soil Concentration Formula:
Amt * DF * (Vt/Vp)*(1000/Wt)*(Ve/1000)* (100/TS)

Where:
DF = Dilution Factor
Vt = Extract Final Volume (mL)
Vp = Aliquot Cleaned (mL)
Wt = Weight of Sample (g)
Ve = Extraction Lab Final Volume (mL)
TS = Total Solids

231215ical **2023** Pest_20

ical **ical** 12/15/23

Dep.: PEST

Inst: Pest_20

Date: **12/15/23**

Run: **ical**

Method

GC: pest

seq: WG1865714

pp11380

Vial	Data File	Sample	CCAL	notes	initials
1	20231215i-01	Blank,42e,,pp 11380			
2	20231215i-02	pem-01,42e,,pp 11372			EJL 12/18
3	20231215i-03	il1pest,42e,,pp 11406 L0.0005			EJL 12/18
4	20231215i-04	il2pest,42e,,pp 11405 L0.001			EJL 12/18
5	20231215i-05	il3pest,42e,,pp 11404 L0.002			EJL 12/18
6	20231215i-06	il4pest,42e,,pp 11403 L0.003			EJL 12/18
7	20231215i-07	il5pest,42e,,pp 11402 L0.004			EJL 12/18
8	20231215i-08	il7pest,42e,,pp 11401 L0.01			EJL 12/18
9	20231215i-09	il8pest,42e,,pp 11400 L0.05			EJL 12/18
10	20231215i-10	il9pest,42e,,pp 11399 L0.1			EJL 12/18
11	20231215i-11	il10pest,42e,,pp 11398 L0.2			EJL 12/18
12	20231215i-12	il11pest,42e,,pp 11397 L0.4			EJL 12/18
13	20231215i-13	cicvpest,42e,,pp 11430 L0.05ICV			EJL 12/18
14	20231215i-14	il3chlor,42e,,pp 11325 L0.01			EJL 12/18
15	20231215i-15	il4chlor,42e,,pp 11324 L0.02			EJL 12/18
16	20231215i-16	il5chlor,42e,,pp 11323 L0.1			EJL 12/18
17	20231215i-17	il7chlor,42e,,pp 11322 L0.5			EJL 12/18
18	20231215i-18	il8chlor,42e,,pp 11321 L1.0			EJL 12/18
19	20231215i-19	il9chlor,42e,,pp 11320 L2.0			EJL 12/18
20	20231215i-20	il10chlor,42e,,pp 11319 L5.0			EJL 12/18
21	20231215i-21	cicvchlor,42e,,pp 11437 L1.0ICV			EJL 12/18
22	20231215i-22	il3tox,42e,,pp 11328 L0.02			EJL 12/18
23	20231215i-23	il8tox,42e,,pp 11327 L2.0			EJL 12/18
24	20231215i-24	il9tox,42e,,pp 11326 L5.0			EJL 12/18
25	20231215i-25	cicvtox,42e,,pp 11438 L2.0ICV			EJL 12/18

Dep.: PEST
Inst: Pest_11
Date: **12/19/23**
Run: **ical**

Method
GC: PEST

Seq: WG1866910
IS: pp11380

Vial	Data File	Sample	CCAL	notes	initials
1	11231219i-01	Blank,42e,,pp 11380 --			
2	11231219i-02	pem-01,42e,,pp 11372 --			EJL 12/20
3	11231219i-03	il1pest,42e,,pp 11406 L0.0005			EJL 12/20
4	11231219i-04	il2pest,42e,,pp 11405 L0.001			EJL 12/20
5	11231219i-05	il3pest,42e,,pp 11404 L0.002			EJL 12/20
6	11231219i-06	il4pest,42e,,pp 11403 L0.003			EJL 12/20
7	11231219i-07	il5pest,42e,,pp 11402 L0.004			EJL 12/20
8	11231219i-08	il7pest,42e,,pp 11401 L0.01			EJL 12/20
9	11231219i-09	il8pest,42e,,pp 11400 L0.05			EJL 12/20
10	11231219i-10	il9pest,42e,,pp 11399 L0.1			EJL 12/20
11	11231219i-11	il10pest,42e,,pp 11398 L0.2			EJL 12/20
12	11231219i-12	il11pest,42e,,pp 11397 L0.4			EJL 12/20
13	11231219i-13	cicvpest,42e,,pp 11430 L0.05ICV			EJL 12/20
14	11231219i-14	il3chlor,42e,,pp 11325 L0.01			EJL 12/20
15	11231219i-15	il4chlor,42e,,pp 11324 L0.02			EJL 12/20
16	11231219i-16	il5chlor,42e,,pp 11323 L0.1			EJL 12/20
17	11231219i-17	il7chlor,42e,,pp 11322 L0.5			EJL 12/20
18	11231219i-18	il8chlor,42e,,pp 11321 L1.0			EJL 12/20
19	11231219i-19	il9chlor,42e,,pp 11320 L2.0			EJL 12/20
20	11231219i-20	il10chlor,42e,,pp 11319 L5.0			EJL 12/20
21	11231219i-21	cicvchlor,42e,,pp 11437 L1.0ICV			EJL 12/20
22	11231219i-22	il3tox,42e,,pp 11328 L0.02			EJL 12/20
23	11231219i-23	il8tox,42e,,pp 11327 L2.0			EJL 12/20
24	11231219i-24	il9tox,42e,,pp 11326 L5.0			EJL 12/20
25	11231219i-25	cicvtox,42e,,pp 11438 L2.0ICV			EJL 12/20

Dep.: Pest
Inst: Pest_15
Date: **01/08/24**
Run: **ical**

Method
GC: 8081/608.3

Seq: WG1874875
IS: pp11380

Vial	Data File	Sample	CCAL	notes	initials
1	15240108i-01	Blank,42e,,pp 11380 --			
2	15240108i-02	pem-01,42e,,pp 11372 --			AKM 1/12
3	15240108i-03	il1pest,42e,,pp 11406 L0.0005			AKM 1/12
4	15240108i-04	il2pest,42e,,pp 11405 L0.001			AKM 1/12
5	15240108i-05	il3pest,42e,,pp 11404 L0.002			AKM 1/12
6	15240108i-06	il4pest,42e,,pp 11403 L0.003			AKM 1/12
7	15240108i-07	il5pest,42e,,pp 11402 L0.004			AKM 1/12
8	15240108i-08	il7pest,42e,,pp 11401 L0.01			AKM 1/12
9	15240108i-09	il8pest,42e,,pp 11400 L0.05			AKM 1/12
10	15240108i-10	il9pest,42e,,pp 11399 L0.1			AKM 1/12
11	15240108i-11	il10pest,42e,,pp 11398 L0.2			AKM 1/12
12	15240108i-12	il11pest,42e,,pp 11397 L0.4			AKM 1/12
13	15240108i-13	cicvpest,42e,,pp 11430 L0.05ICV			AKM 1/12
14	15240108i-14	il3chlor,42e,,pp 11325 L0.01			AKM 1/12
15	15240108i-15	il4chlor,42e,,pp 11324 L0.02			AKM 1/12
16	15240108i-16	il5chlor,42e,,pp 11323 L0.1			AKM 1/12
17	15240108i-17	il7chlor,42e,,pp 11322 L0.5			AKM 1/12
18	15240108i-18	il8chlor,42e,,pp 11321 L1.0			AKM 1/12
19	15240108i-19	il9chlor,42e,,pp 11320 L2.0			AKM 1/12
20	15240108i-20	il10chlor,42e,,pp 11319 L5.0			AKM 1/12
21	15240108i-21	cicvchlor,42e,,pp 117437 L1.0ICV			AKM 1/12
22	15240108i-22	il3tox,42e,,pp 11328 L0.02			AKM 1/12
23	15240108i-23	il8tox,42e,,pp 11327 L2.0			AKM 1/12
24	15240108i-24	il9tox,42e,,pp 11326 L5.0			AKM 1/12
25	15240108i-25	cicvtox,42e,,pp 11438 L2.0ICV			AKM 1/12

240302a **2024** Pest_20

a **a** 03/02/24

Dep.: PEST Method

Inst: Pest_20 GC: pest

Date: **03/02/24**

Run: **a** seq: wg1891472

pp11450

Vial	Data File	Sample	CCAL	notes	initials
1	20240302a-01	blank			
2	20240302a-02	deg11372	6:43		JAG 03/02
3	20240302a-03	pest11430	a: methoxy high		JAG 03/02
4	20240302a-04	chlor11437	15%		JAG 03/02
5	20240302a-05	tox11438	a: high b: 15%		JAG 03/02
6	20240302a-06	blank			
7	20240302a-07	WG1890861-1,42,,			JAG 03/02
8	20240302a-08	WG1890861-2,42,,			JAG 03/02
9	20240302a-09	WG1890861-3,42,,			JAG 03/02
10	20240302a-10	L2410207-01,42,,			JAG 03/02
11	20240302a-11	L2410207-02,42,,			JAG 03/02
12	20240302a-12	L2410207-06,42,,			JAG 03/02
13	20240302a-13	L2410207-09,42,,			JAG 03/02
14	20240302a-14	L2410207-12,42,,			JAG 03/02
15	20240302a-15	L2410207-13,42,,	20x dde ddt		JAG 03/02
16	20240302a-16	L2410230-01,42,,			JAG 03/02
17	20240302a-17	L2410230-03,42,,			JAG 03/02
18	20240302a-18	WG1891333-1,42,,			JAG 03/02
19	20240302a-19	WG1891333-2,42,,			JAG 03/02
20	20240302a-20	WG1891333-3,42,,			JAG 03/02
21	20240302a-21	L2410287-15,42,,			JAG 03/02
22	20240302a-22	L2401337-60,42,, p			JAG 03/02
23	20240302a-23	WG1891324-1,42,,			JAG 03/02
24	20240302a-24	WG1891324-2,42,,			JAG 03/02
25	20240302a-25	WG1891324-3,42,,			JAG 03/02
26	20240302a-26	L2410579-09,42,,			JAG 03/02
27	20240302a-27	pest11430	a: methoxy high		
28	20240302a-28	WG1891333-4,42,, ms			
29	20240302a-29	L2410230-05,42,,			
30	20240302a-30	L2410230-07,42,,			
31	20240302a-31	L2410230-09,42,,			
32	20240302a-32	WG1890860-1,42,,			
33	20240302a-33	WG1890860-2,42,,			
34	20240302a-34	WG1890860-3,42,,			
35	20240302a-35	L2410265-01,42,,			
36	20240302a-36	L2410265-02,42,,			
37	20240302a-37	WG1891333-5,42,, dup			

Dep.: Pest
Inst: Pest_15
Date: **03/02/24**
Run: **a**

Method
GC: 8081/608.3

Seq: wg1891515
IS: pp11450

Vial	Data File	Sample	CCAL	notes	initials
1	15240302a-01	blank			
2	15240302a-02	deg11372	14:55		JAG 3/2
3	15240302a-03	pest11430	b: methoxy high		JAG 3/2
4	15240302a-04	chlor11437			
5	15240302a-05	tox11438	20%		JAG 3/2
6	15240302a-06	chlor11437	a: very high b: 20%		JAG 3/2
7	15240302a-07	blank			
8	15240302a-08	L2410207-13d,42,20, dde ddt			JAG 3/2
9	15240302a-09	L2410277-04,42,,			
10	15240302a-10	L2410277-05,42,,			
11	15240302a-11	L2410277-06,42,,			
12	15240302a-12	L2410277-07,42,,			
13	15240302a-13	L2410277-08,42,,			
14	15240302a-14	L2410277-09,42,,			
15	15240302a-15	L2410277-11,42,,			
16	15240302a-16	L2410277-12,42,,			
17	15240302a-17	L2410744-01,42,,,R2F			
18	15240302a-18	L2410744-02,42,,,R2F			
19	15240302a-19	L2410744-03,42,,,R2F			
20	15240302a-20	L2410579-01,42,,			
21	15240302a-21	L2410579-02,42,,			
22	15240302a-22	L2410579-03,42,,			
23	15240302a-23	L2410579-06,42,,			
24	15240302a-24	L2410579-07,42,,			
25	15240302a-25	L2410516-21,42,,			

Dep.: PEST
Inst: Pest_11
Date: **03/05/24**
Run: **a**

Method
GC: PEST

Seq: wg1892239
IS: pp11450

Vial	Data File	Sample	CCAL	notes	initials
1	11240305a-01	blank			
2	11240305a-02	deg11372			
3	11240305a-03	pest11430			
4	11240305a-04	chlor11437			
5	11240305a-05	tox11438			
6	11240305a-06	blank			
7	11240305a-07	WG1892124-1,42,,			
8	11240305a-08	WG1892124-2,42,,			
9	11240305a-09	WG1892124-3,42,,			
10	11240305a-10	L2410504-09,42,,,R3E			
11	11240305a-11	L2410579-04,42,,			
12	11240305a-12	L2410579-05,42,,			
13	11240305a-13	L2410579-08,42,, p			
14	11240305a-14	WG1892124-4,42,, ms			
15	11240305a-15	WG1892124-5,42,, msd			
16	11240305a-16	L2410579-10,42,,			
17	11240305a-17	blank			
18	11240305a-18	L2410579-10,42,, rv			

ALPHA ANALYTICAL LABORATORIES, INC.

Alpha WORK GROUP REPORT (wk02)

Nov 04 2024, 04:13 pm

Work Group: WG1891324 for Department: 2 Organic Preparation

Created: 01-MAR-24 Due: Operator: KCW/JCG

Sample	Client ID	C	Product	Matrix	Stat	UA	HOLD	DUE	PR	Location
L2410516-21	BM-7A-EQB-MACRO	S	NYTCL-8081	WATER	DONE	U	0304	0318	S0	Amber-A.120
L2410579-01	MW-1S	S	NYTCL-8081	WATER	DONE	U	0304	0305	S0	Amber-A.120
L2410579-02	MW-2S	S	NYTCL-8081	WATER	DONE	U	0304	0305	S0	Amber-A.120
L2410579-03	MW-3S	S	NYTCL-8081	WATER	DONE	U	0304	0305	S0	Amber-A.120
L2410579-06	MW-6D	S	NYTCL-8081	WATER	DONE	U	0304	0305	S0	Amber-A.120
L2410579-07	MW-7S	S	NYTCL-8081	WATER	DONE	U	0304	0305	S0	Amber-A.120
L2410579-09	DUP	S	NYTCL-8081	WATER	DONE	U	0304	0305	S0	Amber-A.120
WG1891324-1	Laboratory Method Bl	S	NYTCL-8081	WATER	DONE	U				
WG1891324-2	Laboratory Control S	S	NYTCL-8081	WATER	DONE	U				
WG1891324-3	LCS Duplicate	S	NYTCL-8081	WATER	DONE	U				

Comments:

WG1891324-3 WG1891324-2

ALPHA ANALYTICAL LABORATORIES, INC.

Alpha WORK GROUP REPORT (wk02)

Nov 04 2024, 04:13 pm

Work Group: WG1892124 for Department: 2 Organic Preparation

Created: 05-MAR-24 Due: Operator: HEO

Sample	Client ID	C	Product	Matrix	Stat	UA	HOLD	DUE	PR	Location
L2410504-09	EB-022724	S	NYTCL-8081	WATER	DONE	U	0305	0305	3E	Amber-A.120
L2410579-04	MW-4D	S	NYTCL-8081	WATER	DONE	U	0305	0305	S0	Amber-A.120
L2410579-05	MW-5S	S	NYTCL-8081	WATER	DONE	U	0305	0305	S0	Amber-A.120
L2410579-08	MW-8S	S	NYTCL-8081	WATER	DONE	U	0305	0305	S0	Amber-A.120
L2410579-10	EB	S	NYTCL-8081	WATER	DONE	U	0305	0305	S0	Amber-A.120
WG1892124-1	Laboratory Method Bl	S	NYTCL-8081	WATER	DONE	U				
WG1892124-2	Laboratory Control S	S	NYTCL-8081	WATER	DONE	U				
WG1892124-3	LCS Duplicate	S	NYTCL-8081	WATER	DONE	U				
WG1892124-4	Matrix Spike	S	NYTCL-8081	WATER	DONE	U				
WG1892124-5	Matrix Spike Duplica	S	NYTCL-8081	WATER	DONE	U				

Comments:

WG1892124-3	WG1892124-2
WG1892124-4	L2410579-08
WG1892124-5	L2410579-08

ORGANIC ELN REPORT

Workgroup: WG1892124

Prep Method: EPA 3510C
Solvent Type: DCM **Lot #:** EH976
Surrogate Type: Pesticide/PCB **Lot #:** PP11469b-062924,
Spike Type: Pesticide **Lot #:** PP11415e-052924,
Spike Verify by: HEO
Lims Spikelot: PEST_LVI

Additional Reagents/Stds

Na2SO4	23F1561004

Conc.Method: S-EVAP/N-EVAP
Solvent Type: Hexane
Lot #: EH929

Additional Reagents/Stds

Cleanup 1

Cleanup Method 1:
Cleanup Method 2:
Solvent Type: **Lot #:**

Additional Reagents/Stds

Sample/ Type	Extraction						Concentration			
	Extract Date	Analyst	Sample Vol ml	Ph	Surr Amt ml	Spike Amt ml	Conc Date	Analyst	Final Vol ml	Conc Unit
L2410504-09 WATER	03/05/24 03:03	Henry Otoo	140	>5,<9	.25		03/05/24 06:52	Rabbi Kyei-Baffour	1	H / K / #3
L2410579-04 WATER	03/05/24 03:03	Henry Otoo	140	>5,<9	.25		03/05/24 06:52	Rabbi Kyei-Baffour	1	H / K / #3
L2410579-05 WATER	03/05/24 03:03	Henry Otoo	140	>5,<9	.25		03/05/24 06:52	Rabbi Kyei-Baffour	1	H / K / #3
L2410579-08 WATER	03/05/24 03:03	Henry Otoo	140	>5,<9	.25		03/05/24 06:52	Rabbi Kyei-Baffour	1	H / K / #3
L2410579-10 WATER	03/05/24 03:03	Henry Otoo	140	>5,<9	.25		03/05/24 06:52	Rabbi Kyei-Baffour	1	H / K / #3
WG1892124-1 BLANK	03/05/24 03:03	Henry Otoo	140	>5,<9	.25		03/05/24 06:52	Rabbi Kyei-Baffour	1	H / K / #3

Reported: 04-NOV-24 04:13 PM

ORGANIC ELN REPORT

Workgroup: WG1892124

Sample/ Type	Extraction						Concentration			
	Extract Date	Analyst	Sample Vol **ml**	Ph	Surr Amt **ml**	Spike Amt **ml**	Conc Date	Analyst	Final Vol **ml**	Conc Unit
WG1892124-2 LCS	03/05/24 03:03	Henry Otoo	140	>5,<9	.25	.25	03/05/24 06:52	Rabbi Kyei-Baffour	1	H / K / #3
WG1892124-3 LCSD	03/05/24 03:03	Henry Otoo	140	>5,<9	.25	.25	03/05/24 06:52	Rabbi Kyei-Baffour	1	H / K / #3
WG1892124-4 MS	03/05/24 03:03	Henry Otoo	140	>5,<9	.25	.25	03/05/24 06:52	Rabbi Kyei-Baffour	1	H / K / #3
WG1892124-5 MSD	03/05/24 03:03	Henry Otoo	140	>5,<9	.25	.25	03/05/24 06:52	Rabbi Kyei-Baffour	1	H / K / #3

Reported: 04-NOV-24 04:13 PM

ORGANIC ELN REPORT

Workgroup: WG1891324

Prep Method: EPA 3510C
Solvent Type: DCM **Lot #:** EH976
Surrogate Type: Pesticide/PCB **Lot #:** PP11469e-062924,
Spike Type: Pesticide **Lot #:** PP11415e-052924,
Spike Verify by: KCW
Lims Spikelot: PEST_LVI

Additional Reagents/Stds

Na2SO4	23F1561004

Conc.Method: S-EVAP/N-EVAP
Solvent Type: Hexane
Lot #: EH827

Additional Reagents/Stds

Cleanup 1

Cleanup Method 1:
Cleanup Method 2:
Solvent Type: **Lot #:**

Additional Reagents/Stds

Sample/ Type	Extraction						Concentration			
	Extract Date	Analyst	Sample Vol ml	Ph	Surr Amt ml	Spike Amt ml	Conc Date	Analyst	Final Vol ml	Conc Unit
L2410516-21 WATER	03/01/24 21:24	Kevin Wehbe	140	>5, <9	.25		03/02/24 09:56	Amanda Patterson	1	H&K, N#3
L2410579-01 WATER	03/01/24 21:24	Kevin Wehbe	140	>5, <9	.25		03/02/24 09:56	Amanda Patterson	1	H&K, N#3
L2410579-02 WATER	03/01/24 21:24	Kevin Wehbe	140	>5, <9	.25		03/02/24 09:56	Amanda Patterson	1	H&K, N#3
L2410579-03 WATER	03/01/24 21:24	Kevin Wehbe	140	>5, <9	.25		03/02/24 09:56	Amanda Patterson	1	H&K, N#3
L2410579-06 WATER	03/01/24 21:24	Kevin Wehbe	140	>5, <9	.25		03/02/24 09:56	Amanda Patterson	1	H&K, N#3
L2410579-07 WATER	03/01/24 21:24	Kevin Wehbe	140	>5, <9	.25		03/02/24 09:56	Amanda Patterson	1	H&K, N#3
L2410579-09 WATER	03/01/24 21:24	Kevin Wehbe	140	>5, <9	.25		03/02/24 09:57	Amanda Patterson	1	H&K, N#3

Reported: 04-NOV-24 04:13 PM

ORGANIC ELN REPORT

Workgroup: WG1891324

Sample/ Type	Extraction						Concentration			
	Extract Date	Analyst	Sample Vol **ml**	Ph	Surr Amt **ml**	Spike Amt **ml**	Conc Date	Analyst	Final Vol **ml**	Conc Unit
WG1891324-1 BLANK	03/01/24 21:24	Kevin Wehbe	140	>5, <9	.25		03/02/24 09:56	Amanda Patterson	1	H&K, N#3
WG1891324-2 LCS	03/01/24 21:24	Kevin Wehbe	140	>5, <9	.25	.25	03/02/24 09:56	Amanda Patterson	1	H&K, N#3
WG1891324-3 LCSD	03/01/24 21:24	Kevin Wehbe	140	>5, <9	.25	.25	03/02/24 09:56	Amanda Patterson	1	H&K, N#3

Reported: 04-NOV-24 04:13 PM

Metals

Inorganic Data
(ICPMS Analysis)

Form 1
METALS

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2410579-01	**Date Collected**	: 02/26/24 14:10
Client ID	: MW-1S	**Date Received**	: 02/27/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 03/04/24 16:11
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,6020B	**Analyst**	: EJF
Lab File ID	: WG1891741.pdf	**Instrument ID**	: ICPMSQ
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 03/01/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7429-90-5	Aluminum, Dissolved	0.0443	0.0100	0.00327	
7440-36-0	Antimony, Dissolved	0.00055	0.00400	0.00042	J
7440-38-2	Arsenic, Dissolved	0.00450	0.00050	0.00016	
7440-39-3	Barium, Dissolved	0.01452	0.00050	0.00017	
7440-41-7	Beryllium, Dissolved	ND	0.00050	0.00010	U
7440-43-9	Cadmium, Dissolved	ND	0.00020	0.00005	U
7440-70-2	Calcium, Dissolved	68.3	0.100	0.0394	
7440-47-3	Chromium, Dissolved	0.00029	0.00100	0.00017	J
7440-48-4	Cobalt, Dissolved	0.00046	0.00050	0.00016	J
7440-50-8	Copper, Dissolved	0.00058	0.00100	0.00038	J
7439-89-6	Iron, Dissolved	0.659	0.0500	0.0191	
7439-92-1	Lead, Dissolved	ND	0.00100	0.00034	U
7439-95-4	Magnesium, Dissolved	0.520	0.0700	0.0242	
7439-96-5	Manganese, Dissolved	0.4940	0.00100	0.00044	
7440-02-0	Nickel, Dissolved	0.00279	0.00200	0.00055	
7440-09-7	Potassium, Dissolved	16.1	0.100	0.0309	
7782-49-2	Selenium, Dissolved	ND	0.00500	0.00173	U
7440-22-4	Silver, Dissolved	ND	0.00040	0.00016	U
7440-23-5	Sodium, Dissolved	39.5	0.100	0.0293	
7440-28-0	Thallium, Dissolved	ND	0.00100	0.00014	U
7440-62-2	Vanadium, Dissolved	0.00548	0.00500	0.00157	
7440-66-6	Zinc, Dissolved	ND	0.01000	0.00341	U

Form 1
METALS

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2410579-02	**Date Collected**	: 02/26/24 15:25
Client ID	: MW-2S	**Date Received**	: 02/27/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 03/04/24 16:15
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,6020B	**Analyst**	: EJF
Lab File ID	: WG1891741.pdf	**Instrument ID**	: ICPMSQ
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 03/01/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7429-90-5	Aluminum, Dissolved	ND	0.0100	0.00327	U
7440-36-0	Antimony, Dissolved	0.00044	0.00400	0.00042	J
7440-38-2	Arsenic, Dissolved	0.00026	0.00050	0.00016	J
7440-39-3	Barium, Dissolved	0.03167	0.00050	0.00017	
7440-41-7	Beryllium, Dissolved	ND	0.00050	0.00010	U
7440-43-9	Cadmium, Dissolved	ND	0.00020	0.00005	U
7440-70-2	Calcium, Dissolved	79.4	0.100	0.0394	
7440-47-3	Chromium, Dissolved	0.00185	0.00100	0.00017	
7440-48-4	Cobalt, Dissolved	0.00048	0.00050	0.00016	J
7440-50-8	Copper, Dissolved	0.00178	0.00100	0.00038	
7439-89-6	Iron, Dissolved	ND	0.0500	0.0191	U
7439-92-1	Lead, Dissolved	ND	0.00100	0.00034	U
7439-95-4	Magnesium, Dissolved	6.80	0.0700	0.0242	
7439-96-5	Manganese, Dissolved	ND	0.00100	0.00044	U
7440-02-0	Nickel, Dissolved	ND	0.00200	0.00055	U
7440-09-7	Potassium, Dissolved	13.0	0.100	0.0309	
7782-49-2	Selenium, Dissolved	ND	0.00500	0.00173	U
7440-22-4	Silver, Dissolved	ND	0.00040	0.00016	U
7440-23-5	Sodium, Dissolved	7.45	0.100	0.0293	
7440-28-0	Thallium, Dissolved	ND	0.00100	0.00014	U
7440-62-2	Vanadium, Dissolved	ND	0.00500	0.00157	U
7440-66-6	Zinc, Dissolved	ND	0.01000	0.00341	U

Form 1
METALS

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2410579-03	**Date Collected**	: 02/26/24 16:30
Client ID	: MW-3S	**Date Received**	: 02/27/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 03/04/24 16:20
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,6020B	**Analyst**	: EJF
Lab File ID	: WG1891741.pdf	**Instrument ID**	: ICPMSQ
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 03/01/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7429-90-5	Aluminum, Dissolved	ND	0.0100	0.00327	U
7440-36-0	Antimony, Dissolved	0.00059	0.00400	0.00042	J
7440-38-2	Arsenic, Dissolved	0.00036	0.00050	0.00016	J
7440-39-3	Barium, Dissolved	0.1061	0.00050	0.00017	
7440-41-7	Beryllium, Dissolved	ND	0.00050	0.00010	U
7440-43-9	Cadmium, Dissolved	ND	0.00020	0.00005	U
7440-70-2	Calcium, Dissolved	106.	0.100	0.0394	
7440-47-3	Chromium, Dissolved	0.00194	0.00100	0.00017	
7440-48-4	Cobalt, Dissolved	0.00053	0.00050	0.00016	
7440-50-8	Copper, Dissolved	0.00182	0.00100	0.00038	
7439-89-6	Iron, Dissolved	ND	0.0500	0.0191	U
7439-92-1	Lead, Dissolved	ND	0.00100	0.00034	U
7439-95-4	Magnesium, Dissolved	9.94	0.0700	0.0242	
7439-96-5	Manganese, Dissolved	ND	0.00100	0.00044	U
7440-02-0	Nickel, Dissolved	0.00057	0.00200	0.00055	J
7440-09-7	Potassium, Dissolved	21.2	0.100	0.0309	
7782-49-2	Selenium, Dissolved	ND	0.00500	0.00173	U
7440-22-4	Silver, Dissolved	ND	0.00040	0.00016	U
7440-23-5	Sodium, Dissolved	14.6	0.100	0.0293	
7440-28-0	Thallium, Dissolved	ND	0.00100	0.00014	U
7440-62-2	Vanadium, Dissolved	ND	0.00500	0.00157	U
7440-66-6	Zinc, Dissolved	ND	0.01000	0.00341	U

Form 1
METALS

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2410579-04	**Date Collected**	: 02/27/24 09:05
Client ID	: MW-4D	**Date Received**	: 02/27/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 03/04/24 17:21
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,6020B	**Analyst**	: EJF
Lab File ID	: WG1891741.pdf	**Instrument ID**	: ICPMSQ
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 03/01/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7429-90-5	Aluminum, Dissolved	0.0158	0.0100	0.00327	
7440-36-0	Antimony, Dissolved	ND	0.00400	0.00042	U
7440-38-2	Arsenic, Dissolved	0.00052	0.00050	0.00016	
7440-39-3	Barium, Dissolved	0.04091	0.00050	0.00017	
7440-41-7	Beryllium, Dissolved	ND	0.00050	0.00010	U
7440-43-9	Cadmium, Dissolved	0.00008	0.00020	0.00005	J
7440-70-2	Calcium, Dissolved	47.0	0.100	0.0394	
7440-47-3	Chromium, Dissolved	0.00118	0.00100	0.00017	
7440-48-4	Cobalt, Dissolved	0.00032	0.00050	0.00016	J
7440-50-8	Copper, Dissolved	0.00052	0.00100	0.00038	J
7439-89-6	Iron, Dissolved	0.0448	0.0500	0.0191	J
7439-92-1	Lead, Dissolved	ND	0.00100	0.00034	U
7439-95-4	Magnesium, Dissolved	8.85	0.0700	0.0242	
7439-96-5	Manganese, Dissolved	0.00513	0.00100	0.00044	
7440-02-0	Nickel, Dissolved	0.00423	0.00200	0.00055	
7440-09-7	Potassium, Dissolved	7.39	0.100	0.0309	
7782-49-2	Selenium, Dissolved	0.00322	0.00500	0.00173	J
7440-22-4	Silver, Dissolved	ND	0.00040	0.00016	U
7440-23-5	Sodium, Dissolved	19.9	0.100	0.0293	
7440-28-0	Thallium, Dissolved	ND	0.00100	0.00014	U
7440-62-2	Vanadium, Dissolved	ND	0.00500	0.00157	U
7440-66-6	Zinc, Dissolved	ND	0.01000	0.00341	U

Form 1
METALS

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2410579-05	**Date Collected**	: 02/27/24 08:40
Client ID	: MW-5S	**Date Received**	: 02/27/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 03/04/24 17:26
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,6020B	**Analyst**	: EJF
Lab File ID	: WG1891741.pdf	**Instrument ID**	: ICPMSQ
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 03/01/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7429-90-5	Aluminum, Dissolved	ND	0.0100	0.00327	U
7440-36-0	Antimony, Dissolved	ND	0.00400	0.00042	U
7440-38-2	Arsenic, Dissolved	ND	0.00050	0.00016	U
7440-39-3	Barium, Dissolved	0.06375	0.00050	0.00017	
7440-41-7	Beryllium, Dissolved	ND	0.00050	0.00010	U
7440-43-9	Cadmium, Dissolved	ND	0.00020	0.00005	U
7440-70-2	Calcium, Dissolved	19.9	0.100	0.0394	
7440-47-3	Chromium, Dissolved	0.00117	0.00100	0.00017	
7440-48-4	Cobalt, Dissolved	ND	0.00050	0.00016	U
7440-50-8	Copper, Dissolved	ND	0.00100	0.00038	U
7439-89-6	Iron, Dissolved	ND	0.0500	0.0191	U
7439-92-1	Lead, Dissolved	ND	0.00100	0.00034	U
7439-95-4	Magnesium, Dissolved	12.7	0.0700	0.0242	
7439-96-5	Manganese, Dissolved	0.00057	0.00100	0.00044	J
7440-02-0	Nickel, Dissolved	ND	0.00200	0.00055	U
7440-09-7	Potassium, Dissolved	1.31	0.100	0.0309	
7782-49-2	Selenium, Dissolved	ND	0.00500	0.00173	U
7440-22-4	Silver, Dissolved	ND	0.00040	0.00016	U
7440-23-5	Sodium, Dissolved	59.5	0.100	0.0293	
7440-28-0	Thallium, Dissolved	ND	0.00100	0.00014	U
7440-62-2	Vanadium, Dissolved	ND	0.00500	0.00157	U
7440-66-6	Zinc, Dissolved	ND	0.01000	0.00341	U

Form 1
METALS

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2410579-06	**Date Collected**	: 02/26/24 16:35
Client ID	: MW-6D	**Date Received**	: 02/27/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 03/04/24 17:31
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,6020B	**Analyst**	: EJF
Lab File ID	: WG1891741.pdf	**Instrument ID**	: ICPMSQ
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 03/01/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7429-90-5	Aluminum, Dissolved	ND	0.0100	0.00327	U
7440-36-0	Antimony, Dissolved	ND	0.00400	0.00042	U
7440-38-2	Arsenic, Dissolved	0.00035	0.00050	0.00016	J
7440-39-3	Barium, Dissolved	0.09771	0.00050	0.00017	
7440-41-7	Beryllium, Dissolved	ND	0.00050	0.00010	U
7440-43-9	Cadmium, Dissolved	0.00007	0.00020	0.00005	J
7440-70-2	Calcium, Dissolved	117.	0.100	0.0394	
7440-47-3	Chromium, Dissolved	0.00024	0.00100	0.00017	J
7440-48-4	Cobalt, Dissolved	0.00055	0.00050	0.00016	
7440-50-8	Copper, Dissolved	0.00136	0.00100	0.00038	
7439-89-6	Iron, Dissolved	ND	0.0500	0.0191	U
7439-92-1	Lead, Dissolved	ND	0.00100	0.00034	U
7439-95-4	Magnesium, Dissolved	27.4	0.0700	0.0242	
7439-96-5	Manganese, Dissolved	4.821	0.00100	0.00044	
7440-02-0	Nickel, Dissolved	0.00071	0.00200	0.00055	J
7440-09-7	Potassium, Dissolved	48.5	0.100	0.0309	
7782-49-2	Selenium, Dissolved	ND	0.00500	0.00173	U
7440-22-4	Silver, Dissolved	ND	0.00040	0.00016	U
7440-23-5	Sodium, Dissolved	38.5	0.100	0.0293	
7440-28-0	Thallium, Dissolved	0.00016	0.00100	0.00014	J
7440-62-2	Vanadium, Dissolved	ND	0.00500	0.00157	U
7440-66-6	Zinc, Dissolved	ND	0.01000	0.00341	U

Form 1
METALS

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2410579-07	**Date Collected**	: 02/26/24 14:45
Client ID	: MW-7S	**Date Received**	: 02/27/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 03/04/24 18:26
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,6020B	**Analyst**	: EJF
Lab File ID	: WG1891741.pdf	**Instrument ID**	: ICPMSQ
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 03/01/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7429-90-5	Aluminum, Dissolved	ND	0.0100	0.00327	U
7440-36-0	Antimony, Dissolved	ND	0.00400	0.00042	U
7440-38-2	Arsenic, Dissolved	0.00030	0.00050	0.00016	J
7440-39-3	Barium, Dissolved	0.07759	0.00050	0.00017	
7440-41-7	Beryllium, Dissolved	ND	0.00050	0.00010	U
7440-43-9	Cadmium, Dissolved	ND	0.00020	0.00005	U
7440-70-2	Calcium, Dissolved	113.	0.100	0.0394	
7440-47-3	Chromium, Dissolved	0.00036	0.00100	0.00017	J
7440-48-4	Cobalt, Dissolved	0.00034	0.00050	0.00016	J
7440-50-8	Copper, Dissolved	0.00174	0.00100	0.00038	
7439-89-6	Iron, Dissolved	ND	0.0500	0.0191	U
7439-92-1	Lead, Dissolved	ND	0.00100	0.00034	U
7439-95-4	Magnesium, Dissolved	11.9	0.0700	0.0242	
7439-96-5	Manganese, Dissolved	0.1049	0.00100	0.00044	
7440-02-0	Nickel, Dissolved	ND	0.00200	0.00055	U
7440-09-7	Potassium, Dissolved	12.0	0.100	0.0309	
7782-49-2	Selenium, Dissolved	ND	0.00500	0.00173	U
7440-22-4	Silver, Dissolved	ND	0.00040	0.00016	U
7440-23-5	Sodium, Dissolved	22.5	0.100	0.0293	
7440-28-0	Thallium, Dissolved	0.00044	0.00100	0.00014	J
7440-62-2	Vanadium, Dissolved	ND	0.00500	0.00157	U
7440-66-6	Zinc, Dissolved	ND	0.01000	0.00341	U

Form 1
METALS

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2410579-08	**Date Collected**	: 02/27/24 10:25
Client ID	: MW-8S	**Date Received**	: 02/27/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 03/04/24 16:06
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,6020B	**Analyst**	: EJF
Lab File ID	: WG1891741.pdf	**Instrument ID**	: ICPMSQ
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 03/01/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7429-90-5	Aluminum, Dissolved	0.00346	0.0100	0.00327	J
7440-36-0	Antimony, Dissolved	ND	0.00400	0.00042	U
7440-38-2	Arsenic, Dissolved	0.00033	0.00050	0.00016	J
7440-39-3	Barium, Dissolved	0.07223	0.00050	0.00017	
7440-41-7	Beryllium, Dissolved	ND	0.00050	0.00010	U
7440-43-9	Cadmium, Dissolved	ND	0.00020	0.00005	U
7440-70-2	Calcium, Dissolved	36.7	0.100	0.0394	
7440-47-3	Chromium, Dissolved	0.00086	0.00100	0.00017	J
7440-48-4	Cobalt, Dissolved	0.00030	0.00050	0.00016	J
7440-50-8	Copper, Dissolved	0.00335	0.00100	0.00038	
7439-89-6	Iron, Dissolved	ND	0.0500	0.0191	U
7439-92-1	Lead, Dissolved	ND	0.00100	0.00034	U
7439-95-4	Magnesium, Dissolved	4.50	0.0700	0.0242	
7439-96-5	Manganese, Dissolved	0.00918	0.00100	0.00044	
7440-02-0	Nickel, Dissolved	0.00183	0.00200	0.00055	J
7440-09-7	Potassium, Dissolved	27.6	0.100	0.0309	
7782-49-2	Selenium, Dissolved	ND	0.00500	0.00173	U
7440-22-4	Silver, Dissolved	ND	0.00040	0.00016	U
7440-23-5	Sodium, Dissolved	38.6	0.100	0.0293	
7440-28-0	Thallium, Dissolved	0.00034	0.00100	0.00014	J
7440-62-2	Vanadium, Dissolved	ND	0.00500	0.00157	U
7440-66-6	Zinc, Dissolved	ND	0.01000	0.00341	U

Form 1
METALS

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2410579-09	**Date Collected**	: 02/26/24 00:00
Client ID	: DUP	**Date Received**	: 02/27/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 03/04/24 18:31
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,6020B	**Analyst**	: EJF
Lab File ID	: WG1891741.pdf	**Instrument ID**	: ICPMSQ
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 03/01/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7429-90-5	Aluminum, Dissolved	ND	0.0100	0.00327	U
7440-36-0	Antimony, Dissolved	ND	0.00400	0.00042	U
7440-38-2	Arsenic, Dissolved	0.00035	0.00050	0.00016	J
7440-39-3	Barium, Dissolved	0.08401	0.00050	0.00017	
7440-41-7	Beryllium, Dissolved	ND	0.00050	0.00010	U
7440-43-9	Cadmium, Dissolved	0.00006	0.00020	0.00005	J
7440-70-2	Calcium, Dissolved	106.	0.100	0.0394	
7440-47-3	Chromium, Dissolved	0.00032	0.00100	0.00017	J
7440-48-4	Cobalt, Dissolved	0.00056	0.00050	0.00016	
7440-50-8	Copper, Dissolved	0.00143	0.00100	0.00038	
7439-89-6	Iron, Dissolved	ND	0.0500	0.0191	U
7439-92-1	Lead, Dissolved	ND	0.00100	0.00034	U
7439-95-4	Magnesium, Dissolved	24.3	0.0700	0.0242	
7439-96-5	Manganese, Dissolved	4.578	0.00100	0.00044	
7440-02-0	Nickel, Dissolved	0.00073	0.00200	0.00055	J
7440-09-7	Potassium, Dissolved	44.7	0.100	0.0309	
7782-49-2	Selenium, Dissolved	ND	0.00500	0.00173	U
7440-22-4	Silver, Dissolved	ND	0.00040	0.00016	U
7440-23-5	Sodium, Dissolved	35.6	0.100	0.0293	
7440-28-0	Thallium, Dissolved	0.00019	0.00100	0.00014	J
7440-62-2	Vanadium, Dissolved	ND	0.00500	0.00157	U
7440-66-6	Zinc, Dissolved	ND	0.01000	0.00341	U

Form 1
METALS

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2410579-10	**Date Collected**	: 02/27/24 09:15
Client ID	: EB	**Date Received**	: 02/27/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 03/04/24 17:17
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,6020B	**Analyst**	: EJF
Lab File ID	: WG1891741.pdf	**Instrument ID**	: ICPMSQ
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 03/01/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7429-90-5	Aluminum, Dissolved	ND	0.0100	0.00327	U
7440-36-0	Antimony, Dissolved	ND	0.00400	0.00042	U
7440-38-2	Arsenic, Dissolved	ND	0.00050	0.00016	U
7440-39-3	Barium, Dissolved	ND	0.00050	0.00017	U
7440-41-7	Beryllium, Dissolved	ND	0.00050	0.00010	U
7440-43-9	Cadmium, Dissolved	ND	0.00020	0.00005	U
7440-70-2	Calcium, Dissolved	ND	0.100	0.0394	U
7440-47-3	Chromium, Dissolved	0.00021	0.00100	0.00017	J
7440-48-4	Cobalt, Dissolved	ND	0.00050	0.00016	U
7440-50-8	Copper, Dissolved	ND	0.00100	0.00038	U
7439-89-6	Iron, Dissolved	ND	0.0500	0.0191	U
7439-92-1	Lead, Dissolved	ND	0.00100	0.00034	U
7439-95-4	Magnesium, Dissolved	ND	0.0700	0.0242	U
7439-96-5	Manganese, Dissolved	ND	0.00100	0.00044	U
7440-02-0	Nickel, Dissolved	ND	0.00200	0.00055	U
7440-09-7	Potassium, Dissolved	ND	0.100	0.0309	U
7782-49-2	Selenium, Dissolved	ND	0.00500	0.00173	U
7440-22-4	Silver, Dissolved	ND	0.00040	0.00016	U
7440-23-5	Sodium, Dissolved	ND	0.100	0.0293	U
7440-28-0	Thallium, Dissolved	ND	0.00100	0.00014	U
7440-62-2	Vanadium, Dissolved	ND	0.00500	0.00157	U
7440-66-6	Zinc, Dissolved	ND	0.01000	0.00341	U

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Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: WG1891325-1	**Date Collected**	: NA
Client ID	: WG1891325-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 03/04/24 17:12
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,6020B	**Analyst**	: EJF
Lab File ID	: WG1891741.pdf	**Instrument ID**	: ICPMSQ
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 03/01/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7429-90-5	Aluminum, Dissolved	ND	0.0100	0.00327	U
7440-36-0	Antimony, Dissolved	ND	0.00400	0.00042	U
7440-38-2	Arsenic, Dissolved	ND	0.00050	0.00016	U
7440-39-3	Barium, Dissolved	ND	0.00050	0.00017	U
7440-41-7	Beryllium, Dissolved	ND	0.00050	0.00010	U
7440-43-9	Cadmium, Dissolved	ND	0.00020	0.00005	U
7440-70-2	Calcium, Dissolved	ND	0.100	0.0394	U
7440-47-3	Chromium, Dissolved	ND	0.00100	0.00017	U
7440-48-4	Cobalt, Dissolved	ND	0.00050	0.00016	U
7440-50-8	Copper, Dissolved	ND	0.00100	0.00038	U
7439-89-6	Iron, Dissolved	ND	0.0500	0.0191	U
7439-92-1	Lead, Dissolved	ND	0.00100	0.00034	U
7439-95-4	Magnesium, Dissolved	ND	0.0700	0.0242	U
7439-96-5	Manganese, Dissolved	ND	0.00100	0.00044	U
7440-02-0	Nickel, Dissolved	ND	0.00200	0.00055	U
7440-09-7	Potassium, Dissolved	ND	0.100	0.0309	U
7782-49-2	Selenium, Dissolved	ND	0.00500	0.00173	U
7440-22-4	Silver, Dissolved	ND	0.00040	0.00016	U
7440-23-5	Sodium, Dissolved	ND	0.100	0.0293	U
7440-28-0	Thallium, Dissolved	ND	0.00100	0.00014	U
7440-62-2	Vanadium, Dissolved	ND	0.00500	0.00157	U
7440-66-6	Zinc, Dissolved	ND	0.01000	0.00341	U

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Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: WG1891325-6	**Date Collected**	:
Client ID	: Serial Dilution	**Date Received**	:
Sample Location	:	**Date Analyzed**	: 03/04/24 16:01
Sample Matrix	: WATER	**Dilution Factor**	: 5
Analytical Method	: 1,6020B	**Analyst**	: EJF
Lab File ID	: WG1891741.pdf	**Instrument ID**	: ICPMSQ
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 03/01/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7440-39-3	Barium, Dissolved	0.06834	0.00250	0.0009	
7440-70-2	Calcium, Dissolved	34.3	0.500	0.197	
7439-95-4	Magnesium, Dissolved	4.10	0.350	0.121	
7440-09-7	Potassium, Dissolved	25.9	0.500	0.154	
7440-23-5	Sodium, Dissolved	34.0	0.500	0.146	

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Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2410579-01	**Date Collected**	: 02/26/24 14:10
Client ID	: MW-1S	**Date Received**	: 02/27/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 03/05/24 10:47
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,6020B	**Analyst**	: EJF
Lab File ID	: WG1892142.pdf	**Instrument ID**	: ICPMSQ2
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 03/01/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7429-90-5	Aluminum, Total	0.0364	0.0100	0.00327	
7440-36-0	Antimony, Total	ND	0.00400	0.00042	U
7440-38-2	Arsenic, Total	0.00448	0.00100	0.00016	
7440-39-3	Barium, Total	0.01484	0.00050	0.00017	
7440-41-7	Beryllium, Total	ND	0.00050	0.00010	U
7440-43-9	Cadmium, Total	ND	0.00020	0.00005	U
7440-47-3	Chromium, Total	0.00032	0.00100	0.00017	J
7440-48-4	Cobalt, Total	0.00050	0.00050	0.00016	
7440-50-8	Copper, Total	0.00062	0.00100	0.00038	J
7439-89-6	Iron, Total	0.646	0.0500	0.0191	
7439-92-1	Lead, Total	ND	0.00100	0.00034	U
7439-95-4	Magnesium, Total	0.495	0.0700	0.0242	
7439-96-5	Manganese, Total	0.4634	0.00100	0.00044	
7440-02-0	Nickel, Total	0.00248	0.00200	0.00055	
7440-09-7	Potassium, Total	15.6	0.100	0.0309	
7782-49-2	Selenium, Total	ND	0.00500	0.00173	U
7440-22-4	Silver, Total	ND	0.00040	0.00016	U
7440-23-5	Sodium, Total	36.0	0.100	0.0293	
7440-28-0	Thallium, Total	ND	0.00100	0.00014	U
7440-62-2	Vanadium, Total	0.00513	0.00500	0.00157	
7440-66-6	Zinc, Total	ND	0.01000	0.00341	U

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Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2410579-01	**Date Collected**	: 02/26/24 14:10
Client ID	: MW-1S	**Date Received**	: 02/27/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 03/05/24 11:18
Sample Matrix	: WATER	**Dilution Factor**	: 10
Analytical Method	: 1,6020B	**Analyst**	: EJF
Lab File ID	: WG1892142.pdf	**Instrument ID**	: ICPMSQ2
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 03/01/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7440-70-2	Calcium, Total	68.6	1.00	0.394	

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Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2410579-02	**Date Collected**	: 02/26/24 15:25
Client ID	: MW-2S	**Date Received**	: 02/27/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 03/05/24 13:03
Sample Matrix	: WATER	**Dilution Factor**	: 10
Analytical Method	: 1,6020B	**Analyst**	: EJF
Lab File ID	: WG1892142.pdf	**Instrument ID**	: ICPMSQ2
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 03/01/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7440-70-2	Calcium, Total	66.9	1.00	0.394	

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Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2410579-02	**Date Collected**	: 02/26/24 15:25
Client ID	: MW-2S	**Date Received**	: 02/27/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 03/05/24 11:22
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,6020B	**Analyst**	: EJF
Lab File ID	: WG1892142.pdf	**Instrument ID**	: ICPMSQ2
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 03/01/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7429-90-5	Aluminum, Total	0.00393	0.0100	0.00327	J
7440-36-0	Antimony, Total	ND	0.00400	0.00042	U
7440-38-2	Arsenic, Total	0.00025	0.00100	0.00016	J
7440-39-3	Barium, Total	0.03157	0.00050	0.00017	
7440-41-7	Beryllium, Total	ND	0.00050	0.00010	U
7440-43-9	Cadmium, Total	ND	0.00020	0.00005	U
7440-47-3	Chromium, Total	0.00189	0.00100	0.00017	
7440-48-4	Cobalt, Total	0.00049	0.00050	0.00016	J
7440-50-8	Copper, Total	0.00149	0.00100	0.00038	
7439-89-6	Iron, Total	ND	0.0500	0.0191	U
7439-92-1	Lead, Total	ND	0.00100	0.00034	U
7439-95-4	Magnesium, Total	6.46	0.0700	0.0242	
7439-96-5	Manganese, Total	0.00049	0.00100	0.00044	J
7440-02-0	Nickel, Total	ND	0.00200	0.00055	U
7440-09-7	Potassium, Total	12.0	0.100	0.0309	
7782-49-2	Selenium, Total	ND	0.00500	0.00173	U
7440-22-4	Silver, Total	ND	0.00040	0.00016	U
7440-23-5	Sodium, Total	7.09	0.100	0.0293	
7440-28-0	Thallium, Total	ND	0.00100	0.00014	U
7440-62-2	Vanadium, Total	ND	0.00500	0.00157	U
7440-66-6	Zinc, Total	ND	0.01000	0.00341	U

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Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2410579-03	**Date Collected**	: 02/26/24 16:30
Client ID	: MW-3S	**Date Received**	: 02/27/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 03/05/24 11:27
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,6020B	**Analyst**	: EJF
Lab File ID	: WG1892142.pdf	**Instrument ID**	: ICPMSQ2
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 03/01/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7429-90-5	Aluminum, Total	ND	0.0100	0.00327	U
7440-36-0	Antimony, Total	ND	0.00400	0.00042	U
7440-38-2	Arsenic, Total	0.00035	0.00100	0.00016	J
7440-39-3	Barium, Total	0.1061	0.00050	0.00017	
7440-41-7	Beryllium, Total	ND	0.00050	0.00010	U
7440-43-9	Cadmium, Total	ND	0.00020	0.00005	U
7440-47-3	Chromium, Total	0.00219	0.00100	0.00017	
7440-48-4	Cobalt, Total	0.00059	0.00050	0.00016	
7440-50-8	Copper, Total	0.00169	0.00100	0.00038	
7439-89-6	Iron, Total	0.0194	0.0500	0.0191	J
7439-92-1	Lead, Total	ND	0.00100	0.00034	U
7439-95-4	Magnesium, Total	9.53	0.0700	0.0242	
7439-96-5	Manganese, Total	0.00163	0.00100	0.00044	
7440-02-0	Nickel, Total	0.00058	0.00200	0.00055	J
7782-49-2	Selenium, Total	ND	0.00500	0.00173	U
7440-22-4	Silver, Total	ND	0.00040	0.00016	U
7440-23-5	Sodium, Total	13.6	0.100	0.0293	
7440-28-0	Thallium, Total	ND	0.00100	0.00014	U
7440-62-2	Vanadium, Total	ND	0.00500	0.00157	U
7440-66-6	Zinc, Total	ND	0.01000	0.00341	U

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Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2410579-03	**Date Collected**	: 02/26/24 16:30
Client ID	: MW-3S	**Date Received**	: 02/27/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 03/05/24 13:07
Sample Matrix	: WATER	**Dilution Factor**	: 10
Analytical Method	: 1,6020B	**Analyst**	: EJF
Lab File ID	: WG1892142.pdf	**Instrument ID**	: ICPMSQ2
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 03/01/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7440-70-2	Calcium, Total	101.	1.00	0.394	
7440-09-7	Potassium, Total	19.8	1.00	0.309	

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Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2410579-04	**Date Collected**	: 02/27/24 09:05
Client ID	: MW-4D	**Date Received**	: 02/27/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 03/05/24 11:31
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,6020B	**Analyst**	: EJF
Lab File ID	: WG1892142.pdf	**Instrument ID**	: ICPMSQ2
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 03/01/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7429-90-5	Aluminum, Total	0.0987	0.0100	0.00327	
7440-36-0	Antimony, Total	ND	0.00400	0.00042	U
7440-38-2	Arsenic, Total	0.00077	0.00100	0.00016	J
7440-39-3	Barium, Total	0.03753	0.00050	0.00017	
7440-41-7	Beryllium, Total	ND	0.00050	0.00010	U
7440-43-9	Cadmium, Total	0.00007	0.00020	0.00005	J
7440-70-2	Calcium, Total	40.6	0.100	0.0394	
7440-47-3	Chromium, Total	0.01479	0.00100	0.00017	
7440-48-4	Cobalt, Total	0.00054	0.00050	0.00016	
7440-50-8	Copper, Total	0.00150	0.00100	0.00038	
7439-89-6	Iron, Total	0.584	0.0500	0.0191	
7439-92-1	Lead, Total	0.00040	0.00100	0.00034	J
7439-95-4	Magnesium, Total	7.77	0.0700	0.0242	
7439-96-5	Manganese, Total	0.02318	0.00100	0.00044	
7440-02-0	Nickel, Total	0.01271	0.00200	0.00055	
7440-09-7	Potassium, Total	6.36	0.100	0.0309	
7782-49-2	Selenium, Total	0.00222	0.00500	0.00173	J
7440-22-4	Silver, Total	ND	0.00040	0.00016	U
7440-23-5	Sodium, Total	16.4	0.100	0.0293	
7440-28-0	Thallium, Total	ND	0.00100	0.00014	U
7440-62-2	Vanadium, Total	ND	0.00500	0.00157	U
7440-66-6	Zinc, Total	ND	0.01000	0.00341	U

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METALS

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2410579-05	**Date Collected**	: 02/27/24 08:40
Client ID	: MW-5S	**Date Received**	: 02/27/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 03/05/24 11:36
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,6020B	**Analyst**	: EJF
Lab File ID	: WG1892142.pdf	**Instrument ID**	: ICPMSQ2
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 03/01/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7429-90-5	Aluminum, Total	0.00532	0.0100	0.00327	J
7440-36-0	Antimony, Total	ND	0.00400	0.00042	U
7440-38-2	Arsenic, Total	ND	0.00100	0.00016	U
7440-39-3	Barium, Total	0.06062	0.00050	0.00017	
7440-41-7	Beryllium, Total	ND	0.00050	0.00010	U
7440-43-9	Cadmium, Total	ND	0.00020	0.00005	U
7440-70-2	Calcium, Total	18.0	0.100	0.0394	
7440-47-3	Chromium, Total	0.00115	0.00100	0.00017	
7440-48-4	Cobalt, Total	ND	0.00050	0.00016	U
7440-50-8	Copper, Total	ND	0.00100	0.00038	U
7439-89-6	Iron, Total	ND	0.0500	0.0191	U
7439-92-1	Lead, Total	ND	0.00100	0.00034	U
7439-95-4	Magnesium, Total	11.2	0.0700	0.0242	
7439-96-5	Manganese, Total	0.00203	0.00100	0.00044	
7440-02-0	Nickel, Total	ND	0.00200	0.00055	U
7440-09-7	Potassium, Total	1.18	0.100	0.0309	
7782-49-2	Selenium, Total	ND	0.00500	0.00173	U
7440-22-4	Silver, Total	ND	0.00040	0.00016	U
7440-23-5	Sodium, Total	49.4	0.100	0.0293	
7440-28-0	Thallium, Total	ND	0.00100	0.00014	U
7440-62-2	Vanadium, Total	ND	0.00500	0.00157	U
7440-66-6	Zinc, Total	ND	0.01000	0.00341	U

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METALS

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2410579-05	**Date Collected**	: 02/27/24 08:40
Client ID	: MW-5S	**Date Received**	: 02/27/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 03/05/24 13:12
Sample Matrix	: WATER	**Dilution Factor**	: 10
Analytical Method	: 1,6020B	**Analyst**	: EJF
Lab File ID	: WG1892142.pdf	**Instrument ID**	: ICPMSQ2
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 03/01/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7440-23-5	Sodium, Total	49.8	1.00	0.293	

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Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2410579-06	**Date Collected**	: 02/26/24 16:35
Client ID	: MW-6D	**Date Received**	: 02/27/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 03/05/24 13:16
Sample Matrix	: WATER	**Dilution Factor**	: 10
Analytical Method	: 1,6020B	**Analyst**	: EJF
Lab File ID	: WG1892142.pdf	**Instrument ID**	: ICPMSQ2
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 03/01/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7440-70-2	Calcium, Total	97.6	1.00	0.394	
7439-95-4	Magnesium, Total	21.7	0.700	0.242	
7439-96-5	Manganese, Total	3.769	0.01000	0.00440	
7440-09-7	Potassium, Total	38.1	1.00	0.309	

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Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2410579-06	**Date Collected**	: 02/26/24 16:35
Client ID	: MW-6D	**Date Received**	: 02/27/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 03/05/24 11:40
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,6020B	**Analyst**	: EJF
Lab File ID	: WG1892142.pdf	**Instrument ID**	: ICPMSQ2
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 03/01/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7429-90-5	Aluminum, Total	0.0130	0.0100	0.00327	
7440-36-0	Antimony, Total	ND	0.00400	0.00042	U
7440-38-2	Arsenic, Total	0.00031	0.00100	0.00016	J
7440-39-3	Barium, Total	0.08334	0.00050	0.00017	
7440-41-7	Beryllium, Total	ND	0.00050	0.00010	U
7440-43-9	Cadmium, Total	ND	0.00020	0.00005	U
7440-47-3	Chromium, Total	0.00041	0.00100	0.00017	J
7440-48-4	Cobalt, Total	0.00049	0.00050	0.00016	J
7440-50-8	Copper, Total	0.00135	0.00100	0.00038	
7439-89-6	Iron, Total	0.0387	0.0500	0.0191	J
7439-92-1	Lead, Total	ND	0.00100	0.00034	U
7440-02-0	Nickel, Total	0.00062	0.00200	0.00055	J
7782-49-2	Selenium, Total	ND	0.00500	0.00173	U
7440-22-4	Silver, Total	ND	0.00040	0.00016	U
7440-23-5	Sodium, Total	31.7	0.100	0.0293	
7440-28-0	Thallium, Total	0.00014	0.00100	0.00014	J
7440-62-2	Vanadium, Total	ND	0.00500	0.00157	U
7440-66-6	Zinc, Total	ND	0.01000	0.00341	U

Form 1
METALS

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2410579-07	**Date Collected**	: 02/26/24 14:45
Client ID	: MW-7S	**Date Received**	: 02/27/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 03/05/24 13:21
Sample Matrix	: WATER	**Dilution Factor**	: 10
Analytical Method	: 1,6020B	**Analyst**	: EJF
Lab File ID	: WG1892142.pdf	**Instrument ID**	: ICPMSQ2
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 03/01/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7440-70-2	Calcium, Total	93.3	1.00	0.394	

Form 1
METALS

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2410579-07	**Date Collected**	: 02/26/24 14:45
Client ID	: MW-7S	**Date Received**	: 02/27/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 03/05/24 11:45
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,6020B	**Analyst**	: EJF
Lab File ID	: WG1892142.pdf	**Instrument ID**	: ICPMSQ2
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 03/01/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7429-90-5	Aluminum, Total	ND	0.0100	0.00327	U
7440-36-0	Antimony, Total	ND	0.00400	0.00042	U
7440-38-2	Arsenic, Total	0.00030	0.00100	0.00016	J
7440-39-3	Barium, Total	0.08481	0.00050	0.00017	
7440-41-7	Beryllium, Total	ND	0.00050	0.00010	U
7440-43-9	Cadmium, Total	ND	0.00020	0.00005	U
7440-47-3	Chromium, Total	0.00039	0.00100	0.00017	J
7440-48-4	Cobalt, Total	0.00034	0.00050	0.00016	J
7440-50-8	Copper, Total	0.00191	0.00100	0.00038	
7439-89-6	Iron, Total	ND	0.0500	0.0191	U
7439-92-1	Lead, Total	ND	0.00100	0.00034	U
7439-95-4	Magnesium, Total	12.1	0.0700	0.0242	
7439-96-5	Manganese, Total	0.1035	0.00100	0.00044	
7440-02-0	Nickel, Total	ND	0.00200	0.00055	U
7440-09-7	Potassium, Total	12.0	0.100	0.0309	
7782-49-2	Selenium, Total	ND	0.00500	0.00173	U
7440-22-4	Silver, Total	ND	0.00040	0.00016	U
7440-23-5	Sodium, Total	22.1	0.100	0.0293	
7440-28-0	Thallium, Total	0.00036	0.00100	0.00014	J
7440-62-2	Vanadium, Total	ND	0.00500	0.00157	U
7440-66-6	Zinc, Total	ND	0.01000	0.00341	U

Form 1
METALS

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2410579-08	**Date Collected**	: 02/27/24 10:25
Client ID	: MW-8S	**Date Received**	: 02/27/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 03/05/24 11:09
Sample Matrix	: WATER	**Dilution Factor**	: 10
Analytical Method	: 1,6020B	**Analyst**	: EJF
Lab File ID	: WG1892142.pdf	**Instrument ID**	: ICPMSQ2
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 03/01/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7440-09-7	Potassium, Total	25.4	1.00	0.309	

Form 1
METALS

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2410579-08	**Date Collected**	: 02/27/24 10:25
Client ID	: MW-8S	**Date Received**	: 02/27/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 03/05/24 10:33
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,6020B	**Analyst**	: EJF
Lab File ID	: WG1892142.pdf	**Instrument ID**	: ICPMSQ2
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 03/01/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7429-90-5	Aluminum, Total	0.00964	0.0100	0.00327	J
7440-36-0	Antimony, Total	ND	0.00400	0.00042	U
7440-38-2	Arsenic, Total	0.00031	0.00100	0.00016	J
7440-39-3	Barium, Total	0.06621	0.00050	0.00017	
7440-41-7	Beryllium, Total	ND	0.00050	0.00010	U
7440-43-9	Cadmium, Total	ND	0.00020	0.00005	U
7440-70-2	Calcium, Total	33.8	0.100	0.0394	
7440-47-3	Chromium, Total	0.00483	0.00100	0.00017	
7440-48-4	Cobalt, Total	0.00034	0.00050	0.00016	J
7440-50-8	Copper, Total	0.00310	0.00100	0.00038	
7439-89-6	Iron, Total	0.0436	0.0500	0.0191	J
7439-92-1	Lead, Total	ND	0.00100	0.00034	U
7439-95-4	Magnesium, Total	4.17	0.0700	0.0242	
7439-96-5	Manganese, Total	0.01204	0.00100	0.00044	
7440-02-0	Nickel, Total	0.00332	0.00200	0.00055	
7782-49-2	Selenium, Total	ND	0.00500	0.00173	U
7440-22-4	Silver, Total	ND	0.00040	0.00016	U
7440-23-5	Sodium, Total	33.8	0.100	0.0293	
7440-28-0	Thallium, Total	0.00033	0.00100	0.00014	J
7440-62-2	Vanadium, Total	ND	0.00500	0.00157	U
7440-66-6	Zinc, Total	ND	0.01000	0.00341	U

Form 1
METALS

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2410579-09	**Date Collected**	: 02/26/24 00:00
Client ID	: DUP	**Date Received**	: 02/27/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 03/05/24 13:25
Sample Matrix	: WATER	**Dilution Factor**	: 10
Analytical Method	: 1,6020B	**Analyst**	: EJF
Lab File ID	: WG1892142.pdf	**Instrument ID**	: ICPMSQ2
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 03/01/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7440-70-2	Calcium, Total	94.1	1.00	0.394	
7439-95-4	Magnesium, Total	21.1	0.700	0.242	
7439-96-5	Manganese, Total	3.609	0.01000	0.00440	
7440-09-7	Potassium, Total	37.4	1.00	0.309	

Form 1
METALS

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2410579-09	**Date Collected**	: 02/26/24 00:00
Client ID	: DUP	**Date Received**	: 02/27/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 03/05/24 11:49
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,6020B	**Analyst**	: EJF
Lab File ID	: WG1892142.pdf	**Instrument ID**	: ICPMSQ2
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 03/01/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7429-90-5	Aluminum, Total	0.0136	0.0100	0.00327	
7440-36-0	Antimony, Total	ND	0.00400	0.00042	U
7440-38-2	Arsenic, Total	0.00033	0.00100	0.00016	J
7440-39-3	Barium, Total	0.08488	0.00050	0.00017	
7440-41-7	Beryllium, Total	ND	0.00050	0.00010	U
7440-43-9	Cadmium, Total	0.00007	0.00020	0.00005	J
7440-47-3	Chromium, Total	0.00060	0.00100	0.00017	J
7440-48-4	Cobalt, Total	0.00047	0.00050	0.00016	J
7440-50-8	Copper, Total	0.00184	0.00100	0.00038	
7439-89-6	Iron, Total	0.0480	0.0500	0.0191	J
7439-92-1	Lead, Total	ND	0.00100	0.00034	U
7440-02-0	Nickel, Total	0.00082	0.00200	0.00055	J
7782-49-2	Selenium, Total	ND	0.00500	0.00173	U
7440-22-4	Silver, Total	ND	0.00040	0.00016	U
7440-23-5	Sodium, Total	31.0	0.100	0.0293	
7440-28-0	Thallium, Total	ND	0.00100	0.00014	U
7440-62-2	Vanadium, Total	ND	0.00500	0.00157	U
7440-66-6	Zinc, Total	ND	0.01000	0.00341	U

Form 1
METALS

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2410579-10	**Date Collected**	: 02/27/24 09:15
Client ID	: EB	**Date Received**	: 02/27/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 03/05/24 12:58
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,6020B	**Analyst**	: EJF
Lab File ID	: WG1892142.pdf	**Instrument ID**	: ICPMSQ2
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 03/01/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7429-90-5	Aluminum, Total	0.00920	0.0100	0.00327	J
7440-36-0	Antimony, Total	ND	0.00400	0.00042	U
7440-38-2	Arsenic, Total	ND	0.00100	0.00016	U
7440-39-3	Barium, Total	ND	0.00050	0.00017	U
7440-41-7	Beryllium, Total	ND	0.00050	0.00010	U
7440-43-9	Cadmium, Total	ND	0.00020	0.00005	U
7440-70-2	Calcium, Total	0.102	0.100	0.0394	
7440-47-3	Chromium, Total	0.00037	0.00100	0.00017	J
7440-48-4	Cobalt, Total	ND	0.00050	0.00016	U
7440-50-8	Copper, Total	ND	0.00100	0.00038	U
7439-89-6	Iron, Total	ND	0.0500	0.0191	U
7439-92-1	Lead, Total	ND	0.00100	0.00034	U
7439-95-4	Magnesium, Total	ND	0.0700	0.0242	U
7439-96-5	Manganese, Total	0.00070	0.00100	0.00044	J
7440-02-0	Nickel, Total	ND	0.00200	0.00055	U
7440-09-7	Potassium, Total	0.0780	0.100	0.0309	J
7782-49-2	Selenium, Total	ND	0.00500	0.00173	U
7440-22-4	Silver, Total	ND	0.00040	0.00016	U
7440-23-5	Sodium, Total	ND	0.100	0.0293	U
7440-28-0	Thallium, Total	ND	0.00100	0.00014	U
7440-62-2	Vanadium, Total	ND	0.00500	0.00157	U
7440-66-6	Zinc, Total	ND	0.01000	0.00341	U

Form 1
METALS

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: WG1891173-1	**Date Collected**	: NA
Client ID	: WG1891173-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 03/05/24 10:06
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,6020B	**Analyst**	: EJF
Lab File ID	: WG1892142.pdf	**Instrument ID**	: ICPMSQ2
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 03/01/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7429-90-5	Aluminum, Total	ND	0.0100	0.00327	U
7440-36-0	Antimony, Total	ND	0.00400	0.00042	U
7440-38-2	Arsenic, Total	ND	0.00100	0.00016	U
7440-39-3	Barium, Total	ND	0.00050	0.00017	U
7440-41-7	Beryllium, Total	ND	0.00050	0.00010	U
7440-43-9	Cadmium, Total	ND	0.00020	0.00005	U
7440-70-2	Calcium, Total	ND	0.100	0.0394	U
7440-47-3	Chromium, Total	ND	0.00100	0.00017	U
7440-48-4	Cobalt, Total	ND	0.00050	0.00016	U
7440-50-8	Copper, Total	ND	0.00100	0.00038	U
7439-89-6	Iron, Total	ND	0.0500	0.0191	U
7439-92-1	Lead, Total	ND	0.00100	0.00034	U
7439-95-4	Magnesium, Total	ND	0.0700	0.0242	U
7439-96-5	Manganese, Total	ND	0.00100	0.00044	U
7440-02-0	Nickel, Total	ND	0.00200	0.00055	U
7440-09-7	Potassium, Total	ND	0.100	0.0309	U
7782-49-2	Selenium, Total	ND	0.00500	0.00173	U
7440-22-4	Silver, Total	ND	0.00040	0.00016	U
7440-23-5	Sodium, Total	ND	0.100	0.0293	U
7440-28-0	Thallium, Total	ND	0.00100	0.00014	U
7440-62-2	Vanadium, Total	ND	0.00500	0.00157	U
7440-66-6	Zinc, Total	ND	0.01000	0.00341	U

Form 2A
Initial and Continuing Calibration Verification

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Instrument ID	: ICPMSQ	**Units**	: ug/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :	R1800987-1									
Date Analyzed :	03/04/24 05:51									
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Aluminum	50.0	49.0000	98							
Antimony	50.0	54.3000	109							
Arsenic	50.0	53.3000	107							
Barium	50.0	53.1000	106							
Beryllium	50.0	53.3000	107							
Cadmium	50.0	54.1000	108							
Calcium	5000	5130.0000	103							
Chromium	50.0	52.5000	105							
Cobalt	50.0	54.2000	108							
Copper	50.0	54.3000	109							
Iron	5000	5310.0000	106							
Lead	50.0	57.5000	115							
Magnesium	5000	5330.0000	107							
Manganese	50.0	53.1000	106							
Nickel	50.0	55.0000	110							
Potassium	5000	5030.0000	101							
Selenium	50.0	52.1000	104							
Silver	50.0	54.7000	109							
Sodium	5000	5200.0000	104							
Thallium	50.0	55.2000	110							
Vanadium	50.0	52.3000	105							
Zinc	50.0	52.3000	105							

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	85-115%	(Method 1631)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Methods 200.8, 1631)
	80-120%	(Methods 7470, 7471)

Form 2A
Initial and Continuing Calibration Verification

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Instrument ID	: ICPMSQ	**Units**	: ug/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :	R1800987-3			R1800987-6			R1800987-8		R1800987-10	
Date Analyzed:	03/04/24 06:03			03/04/24 06:26			03/04/24 07:28		03/04/24 08:29	
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Aluminum	50.0	49.2000	98	60.0000	66.0	110	55.2	92	61.7	103
Antimony	50.0	49.7000	99	60.0000	64.1	107	61.9	103	60.5	101
Arsenic	50.0	51.3000	103	60.0000	63.4	106	62.3	104	62.1	104
Barium	50.0	51.0000	102	60.0000	65.3	109	62.2	104	63.0	105
Beryllium	50.0	53.0000	106	60.0000	62.7	104	62.6	104	63.1	105
Cadmium	50.0	52.0000	104	60.0000	62.8	105	63.4	106	62.6	104
Calcium	5000	5140.0000	103	6000.0000	6520	109	5880	98	6010	100
Chromium	50.0	51.0000	102	60.0000	63.4	106	60.0	100	60.7	101
Cobalt	50.0	51.6000	103	60.0000	65.7	110	62.8	105	63.8	106
Copper	50.0	52.2000	104	60.0000	65.9	110	64.7	108	64.4	107
Iron	5000	5140.0000	103	6000.0000	6520	109	6160	103	6280	105
Lead	50.0	52.4000	105	60.0000	66.0	110	64.7	108	63.0	105
Magnesium	5000	4940.0000	99	6000.0000	6570	110	5820	97	6190	103
Manganese	50.0	50.3000	101	60.0000	64.4	107	59.9	100	61.0	102
Nickel	50.0	52.2000	104	60.0000	66.1	110	63.6	106	64.3	107
Potassium	5000	4830.0000	97	6000.0000	6630	110	5810	97	6200	103
Selenium	50.0	48.6000	97	60.0000	63.0	105	59.4	99	59.8	100
Silver	50.0	51.3000	103	60.0000	65.9	110	62.8	105	62.5	104
Sodium	5000	4910.0000	98	6000.0000	6610	110	5840	97	6200	103
Thallium	50.0	50.9000	102	60.0000	65.6	109	64.3	107	63.1	105
Vanadium	50.0	50.6000	101	60.0000	62.8	105	60.1	100	60.5	101
Zinc	50.0	50.0000	100	60.0000	64.0	107	61.2	102	61.4	102

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	85-115%	(Method 1631)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Methods 200.8, 1631)
	80-120%	(Methods 7470, 7471)

Form 2A
Initial and Continuing Calibration Verification

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Instrument ID	: ICPMSQ	**Units**	: ug/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :				R1800987-12			R1800987-15		R1800987-17	
Date Analyzed :				03/04/24 09:25			03/04/24 10:31		03/04/24 11:28	
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Aluminum				60.0000	57.6	96	62.7	104	57.0	95
Antimony				60.0000	61.3	102	62.1	104	61.3	102
Arsenic				60.0000	61.4	102	63.2	105	64.0	107
Barium				60.0000	61.3	102	62.8	105	62.8	105
Beryllium				60.0000	63.8	106	64.2	107	63.5	106
Cadmium				60.0000	62.4	104	63.6	106	64.3	107
Calcium				6000.0000	5910	98	5900	98	5900	98
Chromium				60.0000	59.9	100	61.1	102	60.2	100
Cobalt				60.0000	63.0	105	63.7	106	64.0	107
Copper				60.0000	63.0	105	63.8	106	64.7	108
Iron				6000.0000	6150	102	6220	104	6250	104
Lead				60.0000	63.7	106	64.4	107	66.0	110
Magnesium				6000.0000	5900	98	6180	103	6140	102
Manganese				60.0000	59.5	99	62.4	104	61.3	102
Nickel				60.0000	63.4	106	63.9	106	63.4	106
Potassium				6000.0000	5800	97	6110	102	5910	98
Selenium				60.0000	59.7	100	61.0	102	59.9	100
Silver				60.0000	62.3	104	63.4	106	64.1	107
Sodium				6000.0000	5900	98	6130	102	6080	101
Thallium				60.0000	63.5	106	63.9	106	64.8	108
Vanadium				60.0000	59.7	100	61.7	103	60.1	100
Zinc				60.0000	60.4	101	62.0	103	62.3	104

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	85-115%	(Method 1631)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Methods 200.8, 1631)
	80-120%	(Methods 7470, 7471)

Form 2A
Initial and Continuing Calibration Verification

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Instrument ID	: ICPMSQ	**Units**	: ug/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :				R1800987-19			R1800987-21		R1800987-23	
Date Analyzed:				03/04/24 12:27			03/04/24 13:26		03/04/24 14:21	
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Aluminum				60.0000	57.1	95	57.7	96	56.4	94
Antimony				60.0000	61.3	102	60.6	101	60.7	101
Arsenic				60.0000	61.6	103	60.3	100	60.5	101
Barium				60.0000	61.2	102	60.0	100	61.4	102
Beryllium				60.0000	62.8	105	62.9	105	63.0	105
Cadmium				60.0000	62.9	105	63.0	105	62.0	103
Calcium				6000.0000	5660	94	5870	98	5460	91
Chromium				60.0000	59.4	99	58.4	97	58.4	97
Cobalt				60.0000	62.7	104	61.6	103	60.9	102
Copper				60.0000	63.8	106	62.2	104	61.2	102
Iron				6000.0000	6150	102	6030	100	6010	100
Lead				60.0000	64.3	107	64.3	107	63.6	106
Magnesium				6000.0000	5810	97	5940	99	5800	97
Manganese				60.0000	60.2	100	58.3	97	58.9	98
Nickel				60.0000	63.0	105	62.5	104	60.7	101
Potassium				6000.0000	5820	97	5870	98	5570	93
Selenium				60.0000	59.9	100	58.2	97	57.4	96
Silver				60.0000	62.8	105	63.2	105	61.5	102
Sodium				6000.0000	5760	96	6030	100	5740	96
Thallium				60.0000	63.7	106	64.5	108	62.9	105
Vanadium				60.0000	58.3	97	56.9	95	56.5	94
Zinc				60.0000	60.8	101	60.1	100	60.4	101

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	85-115%	(Method 1631)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Methods 200.8, 1631)
	80-120%	(Methods 7470, 7471)

Form 2A
Initial and Continuing Calibration Verification

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Instrument ID	: ICPMSQ	**Units**	: ug/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :				R1800987-25			R1800987-27		R1800987-29	
Date Analyzed:				03/04/24 15:06			03/04/24 16:25		03/04/24 16:49	
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Aluminum				60.0000	59.7	100	65.1	108	58.8	98
Antimony				60.0000	61.7	103	67.2	112	57.5	96
Arsenic				60.0000	61.8	103	65.5	109	61.0	102
Barium				60.0000	62.6	104	66.2	110	59.3	99
Beryllium				60.0000	63.0	105	64.6	108	62.5	104
Cadmium				60.0000	63.7	106	69.0	115	60.7	101
Calcium				6000.0000	5960	99	6050	101	5850	98
Chromium				60.0000	60.6	101	63.3	106	59.9	100
Cobalt				60.0000	62.8	105	67.4	112	62.0	103
Copper				60.0000	63.2	105	68.6	114	61.9	103
Iron				6000.0000	6190	103	6660	111	6180	103
Lead				60.0000	64.4	107	69.8	116	61.8	103
Magnesium				6000.0000	6150	102	6430	107	5840	97
Manganese				60.0000	61.3	102	64.2	107	60.1	100
Nickel				60.0000	63.6	106	68.2	114	61.5	102
Potassium				6000.0000	6090	102	6240	104	5870	98
Selenium				60.0000	63.3	106	64.0	107	61.6	103
Silver				60.0000	63.6	106	68.4	114	61.7	103
Sodium				6000.0000	6170	103	6450	108	5900	98
Thallium				60.0000	63.9	106	69.1	115	61.9	103
Vanadium				60.0000	60.4	101	62.1	104	59.8	100
Zinc				60.0000	62.4	104	65.7	110	64.6	108

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	85-115%	(Method 1631)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Methods 200.8, 1631)
	80-120%	(Methods 7470, 7471)

Form 2A
Initial and Continuing Calibration Verification

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Instrument ID	: ICPMSQ	**Units**	: ug/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :				R1800987-31			R1800987-33		R1800987-35	
Date Analyzed:				03/04/24 18:14			03/04/24 18:49		03/04/24 19:45	
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Aluminum				60.0000	64.3	107	58.7	98	58.3	97
Antimony				60.0000	57.1	95	59.8	100	61.7	103
Arsenic				60.0000	62.9	105	61.3	102	62.2	104
Barium				60.0000	58.9	98	61.0	102	62.5	104
Beryllium				60.0000	60.2	100	62.6	104	66.9	112
Cadmium				60.0000	63.6	106	62.6	104	64.0	107
Calcium				6000.0000	6180	103	5810	97	5830	97
Chromium				60.0000	62.4	104	58.7	98	60.0	100
Cobalt				60.0000	64.8	108	62.8	105	63.7	106
Copper				60.0000	65.4	109	63.1	105	65.6	109
Iron				6000.0000	6450	108	6150	102	6220	104
Lead				60.0000	58.3	97	65.3	109	65.0	108
Magnesium				6000.0000	6330	106	5990	100	5920	99
Manganese				60.0000	63.8	106	59.3	99	60.3	100
Nickel				60.0000	65.3	109	63.8	106	64.1	107
Potassium				6000.0000	6320	105	5930	99	5960	99
Selenium				60.0000	61.0	102	58.4	97	60.1	100
Silver				60.0000	57.0	95	63.0	105	63.8	106
Sodium				6000.0000	6310	105	6020	100	5950	99
Thallium				60.0000	58.0	97	65.6	109	64.5	108
Vanadium				60.0000	62.3	104	59.0	98	59.6	99
Zinc				60.0000	65.4	109	64.9	108	67.4	112

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	85-115%	(Method 1631)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Methods 200.8, 1631)
	80-120%	(Methods 7470, 7471)

Form 2A
Initial and Continuing Calibration Verification

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Instrument ID	: ICPMSQ	**Units**	: ug/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :				R1800987-37			R1800987-39		R1800987-41	
Date Analyzed:				03/04/24 20:02			03/04/24 20:37		03/04/24 21:15	
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Aluminum				60.0000	57.4	96	61.3	102	56.4	94
Antimony				60.0000	58.1	97	60.8	101	64.0	107
Arsenic				60.0000	61.5	102	61.4	102	63.5	106
Barium				60.0000	58.5	98	61.9	103	64.4	107
Beryllium				60.0000	63.4	106	63.7	106	63.4	106
Cadmium				60.0000	61.5	102	62.8	105	64.6	108
Calcium				6000.0000	5800	97	5820	97	5770	96
Chromium				60.0000	60.0	100	58.9	98	60.5	101
Cobalt				60.0000	63.0	105	62.2	104	63.0	105
Copper				60.0000	64.1	107	63.0	105	64.7	108
Iron				6000.0000	6140	102	6160	103	6150	102
Lead				60.0000	63.2	105	64.2	107	66.9	112
Magnesium				6000.0000	5990	100	5950	99	5820	97
Manganese				60.0000	60.1	100	61.5	102	59.7	100
Nickel				60.0000	64.3	107	63.1	105	62.3	104
Potassium				6000.0000	5830	97	5870	98	5820	97
Selenium				60.0000	58.0	97	61.6	103	62.2	104
Silver				60.0000	62.4	104	62.9	105	64.4	107
Sodium				6000.0000	5990	100	5970	100	5790	96
Thallium				60.0000	62.9	105	64.3	107	67.4	112
Vanadium				60.0000	59.3	99	58.6	98	59.9	100
Zinc				60.0000	65.3	109	65.5	109	66.9	112

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	85-115%	(Method 1631)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Methods 200.8, 1631)
	80-120%	(Methods 7470, 7471)

Form 2A
Initial and Continuing Calibration Verification

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Instrument ID	: ICPMSQ	**Units**	: ug/l

		Initial Calibration			Continuing Calibration(s)						
Lab ID	:	R1801364-1			R1801364-4			R1801364-6			
Date Analyzed	:	03/05/24 05:43			03/05/24 06:13			03/05/24 07:14			
Parameter		**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Iron		5000	4980.0000	100	6000.0000	6150	102	5970	100		

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	85-115%	(Method 1631)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Methods 200.8, 1631)
	80-120%	(Methods 7470, 7471)

Form 2A
Initial and Continuing Calibration Verification

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Instrument ID	: ICPMSQ2	**Units**	: ug/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :	R1801421-1			R1801421-4			R1801421-7		R1801421-9	
Date Analyzed:	03/05/24 06:09			03/05/24 06:35			03/05/24 06:56		03/05/24 08:06	
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Aluminum	50.0	54.1000	108	60.0000	59.5	99	56.7	94	57.8	96
Antimony	50.0	52.3000	105	60.0000	56.0	93	56.6	94	56.7	94
Arsenic	50.0	54.2000	108	60.0000	62.1	104	61.4	102	63.1	105
Barium	50.0	50.6000	101	60.0000	58.0	97	59.5	99	58.7	98
Beryllium	50.0	54.0000	108	60.0000	62.9	105	62.8	105	64.4	107
Cadmium	50.0	53.4000	107	60.0000	61.0	102	62.0	103	61.0	102
Calcium	5000	5160.0000	103	6000.0000	6170	103	5900	98	5960	99
Chromium	50.0	52.9000	106	60.0000	62.5	104	59.7	100	61.4	102
Cobalt	50.0	53.7000	107	60.0000	63.2	105	60.9	102	63.0	105
Copper	50.0	54.3000	109	60.0000	64.3	107	60.6	101	63.7	106
Iron	5000	5340.0000	107	6000.0000	6180	103	6020	100	6070	101
Lead	50.0	52.2000	104	60.0000	59.6	99	60.4	101	59.9	100
Magnesium	5000	5150.0000	103	6000.0000	5980	100	5800	97	5890	98
Manganese	50.0	52.2000	104	60.0000	60.8	101	58.9	98	60.4	101
Nickel	50.0	54.8000	110	60.0000	63.2	105	61.6	103	65.2	109
Potassium	5000	5050.0000	101	6000.0000	5960	99	5690	95	5820	97
Selenium	50.0	54.4000	109	60.0000	60.7	101	59.9	100	62.2	104
Silver	50.0	52.3000	105	60.0000	61.1	102	61.8	103	61.8	103
Sodium	5000	5110.0000	102	6000.0000	5920	99	5790	96	5830	97
Thallium	50.0	50.9000	102	60.0000	58.8	98	60.4	101	59.0	98
Vanadium	50.0	54.3000	109	60.0000	62.2	104	59.1	98	61.7	103
Zinc	50.0	53.9000	108	60.0000	64.1	107	61.9	103	62.6	104

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	85-115%	(Method 1631)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Methods 200.8, 1631)
	80-120%	(Methods 7470, 7471)

Form 2A
Initial and Continuing Calibration Verification

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Instrument ID	: ICPMSQ2	**Units**	: ug/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :				R1801421-11			R1801421-13		R1801421-16	
Date Analyzed :				03/05/24 09:04			03/05/24 09:30		03/05/24 09:52	
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Aluminum				60.0000	61.8	103	59.2	99	61.2	102
Antimony				60.0000	56.0	93	56.0	93	56.9	95
Arsenic				60.0000	62.6	104	63.4	106	62.7	104
Barium				60.0000	59.5	99	59.1	98	59.9	100
Beryllium				60.0000	62.6	104	63.1	105	63.9	106
Cadmium				60.0000	60.3	100	60.1	100	61.2	102
Calcium				6000.0000	6280	105	5880	98	6010	100
Chromium				60.0000	61.4	102	61.4	102	61.5	102
Cobalt				60.0000	63.0	105	62.3	104	63.2	105
Copper				60.0000	63.3	106	63.6	106	64.0	107
Iron				6000.0000	6180	103	6030	100	6180	103
Lead				60.0000	60.6	101	61.1	102	62.6	104
Magnesium				6000.0000	6060	101	5900	98	5910	98
Manganese				60.0000	62.2	104	60.1	100	61.8	103
Nickel				60.0000	64.1	107	63.4	106	64.0	107
Potassium				6000.0000	5890	98	5800	97	5790	96
Selenium				60.0000	64.5	108	62.2	104	62.2	104
Silver				60.0000	60.6	101	60.4	101	61.0	102
Sodium				6000.0000	6030	100	5810	97	5820	97
Thallium				60.0000	60.1	100	60.4	101	61.5	102
Vanadium				60.0000	62.0	103	61.6	103	61.2	102
Zinc				60.0000	62.9	105	63.2	105	64.8	108

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	85-115%	(Method 1631)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Methods 200.8, 1631)
	80-120%	(Methods 7470, 7471)

Form 2A
Initial and Continuing Calibration Verification

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Instrument ID	: ICPMSQ2	**Units**	: ug/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :				R1801421-18			R1801421-20		R1801421-22	
Date Analyzed :				03/05/24 10:51			03/05/24 11:57		03/05/24 12:45	
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Aluminum				60.0000	58.2	97	55.3	92	58.9	98
Antimony				60.0000	57.2	95	57.4	96	56.7	94
Arsenic				60.0000	61.6	103	62.6	104	60.3	100
Barium				60.0000	59.0	98	58.6	98	58.6	98
Beryllium				60.0000	61.3	102	61.6	103	61.3	102
Cadmium				60.0000	61.1	102	61.2	102	60.8	101
Calcium				6000.0000	5720	95	5510	92	5840	97
Chromium				60.0000	59.5	99	57.9	96	58.5	98
Cobalt				60.0000	62.3	104	60.6	101	59.0	98
Copper				60.0000	62.6	104	62.3	104	60.2	100
Iron				6000.0000	6080	101	5910	98	5910	98
Lead				60.0000	62.1	104	62.7	104	63.4	106
Magnesium				6000.0000	5790	96	5520	92	5650	94
Manganese				60.0000	59.4	99	58.4	97	58.3	97
Nickel				60.0000	61.8	103	61.6	103	60.5	101
Potassium				6000.0000	5440	91	5820	97	5630	94
Selenium				60.0000	60.4	101	62.4	104	60.8	101
Silver				60.0000	60.7	101	60.3	100	60.4	101
Sodium				6000.0000	5780	96	5500	92	5580	93
Thallium				60.0000	61.3	102	61.3	102	62.4	104
Vanadium				60.0000	59.1	98	56.2	94	57.5	96
Zinc				60.0000	61.5	102	61.4	102	61.6	103

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	85-115%	(Method 1631)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Methods 200.8, 1631)
	80-120%	(Methods 7470, 7471)

Form 2A
Initial and Continuing Calibration Verification

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Instrument ID	: ICPMSQ2	**Units**	: ug/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :				R1801421-24						
Date Analyzed :				03/05/24 13:30						
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Aluminum				60.0000	60.6	101				
Antimony				60.0000	56.9	95				
Arsenic				60.0000	61.3	102				
Barium				60.0000	58.6	98				
Beryllium				60.0000	61.2	102				
Cadmium				60.0000	60.4	101				
Calcium				6000.0000	5840	97				
Chromium				60.0000	60.3	100				
Cobalt				60.0000	61.4	102				
Copper				60.0000	62.5	104				
Iron				6000.0000	6060	101				
Lead				60.0000	63.3	106				
Magnesium				6000.0000	5910	98				
Manganese				60.0000	61.0	102				
Nickel				60.0000	60.7	101				
Potassium				6000.0000	5860	98				
Selenium				60.0000	63.8	106				
Silver				60.0000	59.8	100				
Sodium				6000.0000	5870	98				
Thallium				60.0000	62.1	104				
Vanadium				60.0000	60.7	101				
Zinc				60.0000	62.6	104				

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	85-115%	(Method 1631)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Methods 200.8, 1631)
	80-120%	(Methods 7470, 7471)

Form 3
Blanks

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Instrument ID	: ICPMSQ		

	Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID :	R1800987-2		R1800987-7		R1800987-9		R1800987-11		WG1891325-1	
Date Analyzed :	03/04/24 05:56		03/04/24 06:31		03/04/24 07:33		03/04/24 08:34		03/04/24 17:12	
Parameter	ug/l	Q	ug/l	Q	ug/l	Q	ug/l	Q	mg/l	Q
Aluminum	3.27	U	3.27	U	3.27	U	3.27	U	0.00327	U
Antimony	0.429	U	0.429	U	0.429	U	0.429	U	0.00042	U
Arsenic	0.165	U	0.165	U	0.165	U	0.165	U	0.00016	U
Barium	0.173	U	0.173	U	0.173	U	0.173	U	0.00017	U
Beryllium	0.107	U	0.107	U	0.107	U	0.107	U	0.00010	U
Cadmium	0.0599	U	0.0599	U	0.0599	U	0.0599	U	0.00005	U
Calcium	39.4	U	39.4	U	39.4	U	39.4	U	0.0394	U
Chromium	0.178	U	0.178	U	0.178	U	0.178	U	0.00017	U
Cobalt	0.163	U	0.163	U	0.163	U	0.163	U	0.00016	U
Copper	0.384	U	0.384	U	0.384	U	0.384	U	0.00038	U
Iron	19.1	U	20.7	J	19.1	U	24.0	J	0.0191	U
Lead	0.343	U	0.343	U	0.343	U	0.343	U	0.00034	U
Magnesium	24.2	U	24.2	U	24.2	U	24.2	U	0.0242	U
Manganese	0.440	U	0.440	U	0.440	U	0.440	U	0.00044	U
Nickel	0.556	U	0.556	U	0.556	U	0.556	U	0.00055	U
Potassium	30.9	U	30.9	U	30.9	U	30.9	U	0.0309	U
Selenium	1.73	U	1.73	U	1.73	U	1.73	U	0.00173	U
Silver	0.163	U	0.163	U	0.163	U	0.163	U	0.00016	U
Sodium	29.3	U	29.3	U	29.3	U	29.3	U	0.0293	U
Thallium	0.417	J	0.409	J	0.412	J	0.450	J	0.00014	U
Vanadium	1.57	U	1.57	U	1.57	U	1.57	U	0.00157	U
Zinc	3.41	U	3.41	U	3.41	U	3.41	U	0.00341	U

Form 3
Blanks

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Instrument ID	: ICPMSQ		

	Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID :	R1800987-4		R1800987-13		R1800987-16		R1800987-18			
Date Analyzed :	03/04/24 06:08		03/04/24 09:30		03/04/24 10:36		03/04/24 11:33			
Parameter	ug/l	Q	ug/l	Q	ug/l	Q	ug/l	Q		Q
Aluminum	3.27	U	3.27	U	3.27	U	3.27	U		
Antimony	0.429	U	0.429	U	0.429	U	0.429	U		
Arsenic	0.165	U	0.165	U	0.165	U	0.165	U		
Barium	0.173	U	0.173	U	0.173	U	0.173	U		
Beryllium	0.107	U	0.107	U	0.107	U	0.107	U		
Cadmium	0.0599	U	0.0599	U	0.0599	U	0.0599	U		
Calcium	39.4	U	39.4	U	39.4	U	39.4	U		
Chromium	0.178	U	0.178	U	0.178	U	0.178	U		
Cobalt	0.163	U	0.163	U	0.163	U	0.163	U		
Copper	0.384	U	0.384	U	0.384	U	0.384	U		
Iron	19.1	U	19.3	J	19.1	U	19.1	U		
Lead	0.343	U	0.343	U	0.343	U	0.343	U		
Magnesium	24.2	U	24.2	U	24.2	U	24.2	U		
Manganese	0.440	U	0.440	U	0.440	U	0.440	U		
Nickel	0.556	U	0.556	U	0.556	U	0.556	U		
Potassium	30.9	U	30.9	U	30.9	U	30.9	U		
Selenium	1.73	U	1.73	U	1.73	U	1.73	U		
Silver	0.163	U	0.163	U	0.163	U	0.163	U		
Sodium	29.3	U	29.3	U	29.3	U	29.3	U		
Thallium	0.402	J	0.451	J	0.411	J	0.384	J		
Vanadium	1.57	U	1.57	U	1.57	U	1.57	U		
Zinc	3.41	U	3.41	U	3.41	U	3.41	U		

Form 3
Blanks

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Instrument ID	: ICPMSQ		

	Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID :			R1800987-20		R1800987-22		R1800987-24			
Date Analyzed :			03/04/24 12:32		03/04/24 13:31		03/04/24 14:26			
Parameter	**ug/l**	**Q**	**ug/l**	**Q**	**ug/l**	**Q**	**ug/l**	**Q**		**Q**
Aluminum			3.27	U	3.27	U	3.27	U		
Antimony			0.429	U	0.429	U	0.429	U		
Arsenic			0.165	U	0.165	U	0.165	U		
Barium			0.173	U	0.173	U	0.173	U		
Beryllium			0.107	U	0.107	U	0.107	U		
Cadmium			0.0599	U	0.0599	U	0.0599	U		
Calcium			39.4	U	39.4	U	39.4	U		
Chromium			0.178	U	0.178	U	0.178	U		
Cobalt			0.163	U	0.163	U	0.163	U		
Copper			0.384	U	0.384	U	0.384	U		
Iron			19.1	U	19.1	U	19.1	U		
Lead			0.343	U	0.343	U	0.343	U		
Magnesium			24.2	U	24.2	U	24.2	U		
Manganese			0.440	U	0.440	U	0.440	U		
Nickel			0.556	U	0.556	U	0.556	U		
Potassium			30.9	U	30.9	U	30.9	U		
Selenium			1.73	U	1.73	U	1.73	U		
Silver			0.163	U	0.163	U	0.163	U		
Sodium			29.3	U	29.3	U	29.3	U		
Thallium			0.394	J	0.302	J	0.441	J		
Vanadium			1.57	U	1.57	U	1.57	U		
Zinc			3.41	U	3.41	U	3.41	U		

Form 3
Blanks

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Instrument ID	: ICPMSQ		

	Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID :			R1800987-26		R1800987-28		R1800987-30			
Date Analyzed:			03/04/24 15:11		03/04/24 16:29		03/04/24 16:54			
Parameter	ug/l	Q	ug/l	Q	ug/l	Q	ug/l	Q		Q
Aluminum			3.27	U	3.27	U	3.27	U		
Antimony			0.429	U	0.429	U	0.429	U		
Arsenic			0.165	U	0.165	U	0.165	U		
Barium			0.173	U	0.173	U	0.173	U		
Beryllium			0.107	U	0.107	U	0.107	U		
Cadmium			0.0599	U	0.0599	U	0.0599	U		
Calcium			39.4	U	39.4	U	39.4	U		
Chromium			0.178	U	0.178	U	0.178	U		
Cobalt			0.163	U	0.163	U	0.163	U		
Copper			0.384	U	0.384	U	0.384	U		
Iron			19.1	U	19.1	U	19.1	U		
Lead			0.343	U	0.343	U	0.343	U		
Magnesium			24.2	U	24.2	U	24.2	U		
Manganese			0.440	U	0.440	U	0.440	U		
Nickel			0.556	U	0.556	U	0.556	U		
Potassium			30.9	U	30.9	U	30.9	U		
Selenium			1.73	U	1.73	U	1.73	U		
Silver			0.163	U	0.163	U	0.163	U		
Sodium			29.3	U	29.3	U	29.3	U		
Thallium			0.406	J	0.466	J	0.492	J		
Vanadium			1.57	U	1.57	U	1.57	U		
Zinc			3.41	U	3.41	U	3.41	U		

Form 3
Blanks

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Instrument ID	: ICPMSQ		

	Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID :			R1800987-32		R1800987-34		R1800987-36			
Date Analyzed:			03/04/24 18:19		03/04/24 18:53		03/04/24 19:50			
Parameter	ug/l	Q	ug/l	Q	ug/l	Q	ug/l	Q		Q
Aluminum			3.27	U	3.27	U	3.27	U		
Antimony			0.429	U	0.429	U	0.429	U		
Arsenic			0.165	U	0.165	U	0.165	U		
Barium			0.173	U	0.173	U	0.173	U		
Beryllium			0.107	U	0.107	U	0.107	U		
Cadmium			0.0599	U	0.0599	U	0.0599	U		
Calcium			39.4	U	39.4	U	39.4	U		
Chromium			0.178	U	0.178	U	0.178	U		
Cobalt			0.163	U	0.163	U	0.163	U		
Copper			0.384	U	0.384	U	0.384	U		
Iron			19.1	U	20.5	J	19.1	U		
Lead			0.343	U	0.343	U	0.343	U		
Magnesium			24.2	U	24.2	U	24.2	U		
Manganese			0.440	U	0.440	U	0.440	U		
Nickel			0.556	U	0.556	U	0.556	U		
Potassium			30.9	U	30.9	U	30.9	U		
Selenium			1.73	U	1.73	U	1.73	U		
Silver			0.163	U	0.163	U	0.163	U		
Sodium			29.3	U	29.3	U	29.3	U		
Thallium			0.443	J	0.436	J	0.458	J		
Vanadium			1.57	U	1.57	U	1.57	U		
Zinc			3.41	U	3.41	U	3.41	U		

Form 3
Blanks

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Instrument ID	: ICPMSQ		

	Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID :			R1800987-38		R1800987-40		R1800987-42			
Date Analyzed :			03/04/24 20:07		03/04/24 20:42		03/04/24 21:20			
Parameter	ug/l	Q	ug/l	Q	ug/l	Q	ug/l	Q		Q
Aluminum			3.27	U	3.27	U	3.27	U		
Antimony			0.429	U	0.429	U	0.572	J		
Arsenic			0.165	U	0.165	U	0.165	U		
Barium			0.173	U	0.173	U	0.173	U		
Beryllium			0.107	U	0.107	U	0.107	U		
Cadmium			0.0599	U	0.0599	U	0.0599	U		
Calcium			39.4	U	39.4	U	39.4	U		
Chromium			0.178	U	0.178	U	0.178	U		
Cobalt			0.163	U	0.163	U	0.163	U		
Copper			0.384	U	0.384	U	0.384	U		
Iron			19.1	U	19.1	U	19.1	U		
Lead			0.343	U	0.343	U	0.343	U		
Magnesium			24.2	U	24.2	U	24.2	U		
Manganese			0.440	U	0.440	U	0.440	U		
Nickel			0.556	U	0.556	U	0.556	U		
Potassium			30.9	U	30.9	U	30.9	U		
Selenium			1.73	U	1.73	U	1.73	U		
Silver			0.163	U	0.163	U	0.163	U		
Sodium			29.3	U	29.3	U	29.3	U		
Thallium			0.483	J	0.456	J	0.456	J		
Vanadium			1.57	U	1.57	U	1.57	U		
Zinc			3.41	U	3.41	U	3.41	U		

Form 3
Blanks

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Instrument ID	: ICPMSQ		

		Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID	:	R1801364-2		R1801364-5		R1801364-7					
Date Analyzed	:	03/05/24 05:48		03/05/24 06:18		03/05/24 07:19					
Parameter		ug/l	Q	ug/l	Q	ug/l	Q	ug/l	Q		Q
Iron		19.1	U	19.1	U	19.1	U				

Form 3
Blanks

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Instrument ID	: ICPMSQ2		

	Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID :	R1801421-2		R1801421-5		R1801421-8		R1801421-10		WG1891173-1	
Date Analyzed :	03/05/24 06:13		03/05/24 06:39		03/05/24 07:00		03/05/24 08:10		03/05/24 10:06	
Parameter	ug/l	Q	ug/l	Q	ug/l	Q	ug/l	Q	mg/l	Q
Aluminum	3.27	U	3.27	U	3.27	U	3.27	U	0.00327	U
Antimony	0.429	U	0.429	U	0.429	U	0.429	U	0.00042	U
Arsenic	0.165	U	0.165	U	0.165	U	0.165	U	0.00016	U
Barium	0.173	U	0.173	U	0.173	U	0.173	U	0.00017	U
Beryllium	0.107	U	0.107	U	0.107	U	0.107	U	0.00010	U
Cadmium	0.0599	U	0.0599	U	0.0599	U	0.0599	U	0.00005	U
Calcium	39.4	U	39.4	U	39.4	U	39.4	U	0.0394	U
Chromium	0.178	U	0.178	U	0.178	U	0.178	U	0.00017	U
Cobalt	0.163	U	0.163	U	0.163	U	0.163	U	0.00016	U
Copper	0.384	U	0.384	U	0.384	U	0.384	U	0.00038	U
Iron	19.1	U	19.1	U	19.1	U	19.1	U	0.0191	U
Lead	0.343	U	0.343	U	0.343	U	0.343	U	0.00034	U
Magnesium	24.2	U	24.2	U	24.2	U	24.2	U	0.0242	U
Manganese	0.440	U	0.440	U	0.440	U	0.440	U	0.00044	U
Nickel	0.556	U	0.556	U	0.556	U	0.556	U	0.00055	U
Potassium	30.9	U	30.9	U	30.9	U	30.9	U	0.0309	U
Selenium	1.73	U	1.73	U	1.73	U	1.73	U	0.00173	U
Silver	0.163	U	0.163	U	0.163	U	0.163	U	0.00016	U
Sodium	29.3	U	29.3	U	29.3	U	29.3	U	0.0293	U
Thallium	0.237	J	0.206	J	0.211	J	0.206	J	0.00014	U
Vanadium	1.57	U	1.57	U	1.57	U	1.57	U	0.00157	U
Zinc	3.41	U	3.41	U	3.41	U	3.41	U	0.00341	U

Form 3
Blanks

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Instrument ID	: ICPMSQ2		

	Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID :			R1801421-12		R1801421-14		R1801421-17			
Date Analyzed :			03/05/24 09:08		03/05/24 09:35		03/05/24 09:57			
Parameter	ug/l	Q	ug/l	Q	ug/l	Q	ug/l	Q		Q
Aluminum			3.27	U	3.27	U	3.27	U		
Antimony			0.429	U	0.429	U	0.429	U		
Arsenic			0.289	J	0.646		0.217	J		
Barium			0.173	U	0.173	U	0.173	U		
Beryllium			0.107	U	0.107	U	0.107	U		
Cadmium			0.0599	U	0.0599	U	0.0599	U		
Calcium			39.4	U	39.4	U	39.4	U		
Chromium			0.178	U	0.178	U	0.178	U		
Cobalt			0.163	U	0.163	U	0.163	U		
Copper			0.384	U	0.384	U	0.384	U		
Iron			19.1	U	19.1	U	19.1	U		
Lead			0.343	U	0.343	U	0.343	U		
Magnesium			24.2	U	24.2	U	24.2	U		
Manganese			0.440	U	0.440	U	0.440	U		
Nickel			0.556	U	0.556	U	0.556	U		
Potassium			30.9	U	30.9	U	30.9	U		
Selenium			1.73	U	1.73	U	1.73	U		
Silver			0.163	U	0.163	U	0.163	U		
Sodium			29.3	U	29.3	U	29.3	U		
Thallium			0.232	J	0.251	J	0.147	J		
Vanadium			1.57	U	1.57	U	1.57	U		
Zinc			3.41	U	3.41	U	3.41	U		

Form 3
Blanks

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Instrument ID	: ICPMSQ2		

	Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID :			R1801421-19		R1801421-21		R1801421-23			
Date Analyzed :			03/05/24 10:56		03/05/24 12:04		03/05/24 12:50			
Parameter	ug/l	Q	ug/l	Q	ug/l	Q	ug/l	Q		Q
Aluminum			3.27	U	3.27	U	3.27	U		
Antimony			0.429	U	0.429	U	0.429	U		
Arsenic			0.165	U	0.165	U	0.165	U		
Barium			0.173	U	0.173	U	0.173	U		
Beryllium			0.107	U	0.107	U	0.107	U		
Cadmium			0.0599	U	0.0599	U	0.0599	U		
Calcium			39.4	U	39.4	U	39.4	U		
Chromium			0.178	U	0.178	U	0.178	U		
Cobalt			0.163	U	0.163	U	0.163	U		
Copper			0.384	U	0.384	U	0.384	U		
Iron			19.1	U	19.1	U	19.1	U		
Lead			0.343	U	0.343	U	0.343	U		
Magnesium			24.2	U	24.2	U	24.2	U		
Manganese			0.440	U	0.440	U	0.440	U		
Nickel			0.556	U	0.556	U	0.556	U		
Potassium			30.9	U	30.9	U	30.9	U		
Selenium			1.73	U	1.73	U	1.73	U		
Silver			0.163	U	0.163	U	0.163	U		
Sodium			29.3	U	29.3	U	29.3	U		
Thallium			0.242	J	0.143	U	0.251	J		
Vanadium			1.57	U	1.57	U	1.57	U		
Zinc			3.41	U	3.41	U	3.41	U		

Form 3
Blanks

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Instrument ID	: ICPMSQ2		

	Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID :			R1801421-25							
Date Analyzed :			03/05/24 13:34							
Parameter	ug/l	Q	ug/l	Q	ug/l	Q	ug/l	Q		Q
Aluminum			3.27	U						
Antimony			0.429	U						
Arsenic			0.165	U						
Barium			0.173	U						
Beryllium			0.107	U						
Cadmium			0.0599	U						
Calcium			39.4	U						
Chromium			0.178	U						
Cobalt			0.163	U						
Copper			0.384	U						
Iron			19.1	U						
Lead			0.343	U						
Magnesium			24.2	U						
Manganese			0.440	U						
Nickel			0.556	U						
Potassium			30.9	U						
Selenium			1.73	U						
Silver			0.163	U						
Sodium			29.3	U						
Thallium			0.246	J						
Vanadium			1.57	U						
Zinc			3.41	U						

Form 4a
Interference Check Sample

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Instrument ID	: ICPMSQ	**Concentration Units**	: ug/l

	True		Initial Found				Final Found			
Lab ID :			R1800987-5							
Analysis Date :			03/04/24 06:12							
Analyte	**Sol. A**	**Sol. AB**	**Sol. A**	**%R**	**Sol. AB**	**%R**	**Sol. A**	**%R**	**Sol. AB**	**%R**
Aluminum	20000		19800	99						
Antimony			0.0698							
Arsenic			0.116							
Barium			0.216							
Beryllium			0.0176							
Cadmium			0.0766							
Calcium	60000		56600	94						
Chromium			0.287							
Cobalt			0.423							
Copper			0.278							
Iron	50000		50200	100						
Lead			0.395							
Magnesium	20000		20000	100						
Manganese			1.08							
Nickel			0.633							
Potassium	20000		19100	96						
Selenium			0.900							
Silver			0.00587							
Sodium	50000		51200	102						
Thallium			0.122							
Vanadium			0.000575							
Zinc			1.31							

Acceptance Criteria: Methods 200.7, 200.8, 6010, 6020

ICSA: 80-120%

ICSAB: 80-120%

Form 4a
Interference Check Sample

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Instrument ID	: ICPMSQ	**Concentration Units**	: ug/l

		Initial Found				Final Found			
Lab ID :		R1801364-3							
Analysis Date :		03/05/24 05:53							
Analyte	**True Sol. A**	**True Sol. AB**	**Sol. A**	**%R**	**Sol. AB**	**%R**	**Sol. A**	**%R**	**Sol. AB**	**%R**
Iron	50000		48400	97						

Acceptance Criteria: Methods 200.7, 200.8, 6010, 6020

ICSA: 80-120%

ICSAB: 80-120%

Form 4a
Interference Check Sample

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Instrument ID	: ICPMSQ2	**Concentration Units**	: ug/l

	True		Initial Found				Final Found			
Lab ID :			R1801421-6							
Analysis Date :			03/05/24 06:47							
Analyte	**Sol. A**	**Sol. AB**	**Sol. A**	**%R**	**Sol. AB**	**%R**	**Sol. A**	**%R**	**Sol. AB**	**%R**
Aluminum	20000		18300	92						
Antimony			0.0468							
Arsenic			0.0684							
Barium			0.320							
Beryllium			0.00888							
Cadmium			0.0882							
Calcium	60000		59100	98						
Chromium			0.315							
Cobalt			0.469							
Copper			0.241							
Iron	50000		49400	99						
Lead			0.416							
Magnesium	20000		20500	102						
Manganese			1.04							
Nickel			0.613							
Potassium	20000		20300	102						
Selenium			0.866							
Silver			0.00391							
Sodium	50000		50100	100						
Thallium			0.0389							
Vanadium			0.0112							
Zinc			1.08							

Acceptance Criteria: Methods 200.7, 200.8, 6010, 6020

ICSA: 80-120%

ICSAB: 80-120%

Form 5a
Matrix Spike

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Client Sample ID	: MW-8S	**Matrix**	: WATER
Lab Sample ID	: L2410579-08		
Matrix Spike	: WG1891325-3	**MS Analysis Date**	: 03/04/24 15:48
Matrix Spike Dup	: WG1891325-4	**MSD Analysis Date**	: 03/04/24 15:52

		Matrix Spike Sample				Matrix Spike Duplicate						
Parameter	Sample Conc. (mg/l)	Spike Added (mg/l)	Spike Conc. (mg/l)	%R		Spike Added (mg/l)	Spike Conc. (mg/l)	%R		RPD	Recovery Limits	RPD Limit
Aluminum, Dissolved	0.00346J	2	1.95	98		2	1.82	91		7	75-125	20
Antimony, Dissolved	ND	0.5	0.4574	91		0.5	0.4367	87		5	75-125	20
Arsenic, Dissolved	0.00033J	0.12	0.1146	96		0.12	0.1119	93		2	75-125	20
Barium, Dissolved	0.07223	2	1.953	94		2	1.883	90		4	75-125	20
Beryllium, Dissolved	ND	0.05	0.05009	100		0.05	0.04892	98		2	75-125	20
Cadmium, Dissolved	ND	0.053	0.05016	95		0.053	0.04867	92		3	75-125	20
Calcium, Dissolved	36.7	10	42.0	53	Q	10	40.4	37	Q	4	75-125	20
Chromium, Dissolved	0.00086J	0.2	0.1849	92		0.2	0.1778	89		4	75-125	20
Cobalt, Dissolved	0.00030J	0.5	0.4806	96		0.5	0.4703	94		2	75-125	20
Copper, Dissolved	0.00335	0.25	0.2486	98		0.25	0.2395	94		4	75-125	20
Iron, Dissolved	ND	1	1.19	119		1	1.13	113		5	75-125	20
Lead, Dissolved	ND	0.53	0.5132	97		0.53	0.5051	95		2	75-125	20
Magnesium, Dissolved	4.50	10	13.4	89		10	12.6	81		6	75-125	20
Manganese, Dissolved	0.00918	0.5	0.4918	96		0.5	0.4656	91		5	75-125	20
Nickel, Dissolved	0.00183J	0.5	0.4909	98		0.5	0.4727	94		4	75-125	20
Potassium, Dissolved	27.6	10	34.7	71	Q	10	32.8	52	Q	6	75-125	20
Selenium, Dissolved	ND	0.12	0.105	88		0.12	0.106	88		1	75-125	20
Silver, Dissolved	ND	0.05	0.04690	94		0.05	0.04577	92		2	75-125	20
Sodium, Dissolved	38.6	10	43.3	47	Q	10	40.6	20	Q	6	75-125	20
Thallium, Dissolved	0.00034J	0.12	0.1124	94		0.12	0.1110	92		1	75-125	20
Vanadium, Dissolved	ND	0.5	0.4609	92		0.5	0.4388	88		5	75-125	20
Zinc, Dissolved	ND	0.5	0.4635	93		0.5	0.4502	90		3	75-125	20

Form 5a
Matrix Spike

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Client Sample ID	: MW-8S	**Matrix**	: WATER
Lab Sample ID	: L2410579-08		
Matrix Spike	: WG1891173-3	**MS Analysis Date**	: 03/05/24 10:15
Matrix Spike Dup	: WG1891173-4	**MSD Analysis Date**	: 03/05/24 10:20

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	Sample Conc. (mg/l)	Spike Added (mg/l)	Spike Conc. (mg/l)	%R	Spike Added (mg/l)	Spike Conc. (mg/l)	%R	RPD	Recovery Limits	RPD Limit
Aluminum, Total	0.00964J	2	2.09	104	2	1.88	94	11	75-125	20
Antimony, Total	ND	0.5	0.4908	98	0.5	0.4628	92	6	75-125	20
Arsenic, Total	0.00031J	0.12	0.1259	105	0.12	0.1186	99	6	75-125	20
Barium, Total	0.06621	2	2.061	100	2	1.941	94	6	75-125	20
Beryllium, Total	ND	0.05	0.05480	110	0.05	0.05144	103	6	75-125	20
Cadmium, Total	ND	0.053	0.05238	99	0.053	0.05038	95	4	75-125	20
Calcium, Total	33.8	10	45.6	108	10	40.5	57 Q	12	75-125	20
Chromium, Total	0.00483	0.2	0.2064	101	0.2	0.1923	94	7	75-125	20
Cobalt, Total	0.00034J	0.5	0.5205	104	0.5	0.4828	96	8	75-125	20
Copper, Total	0.00310	0.25	0.2648	105	0.25	0.2528	100	5	75-125	20
Iron, Total	0.0436J	1	1.15	115	1	1.09	109	5	75-125	20
Lead, Total	ND	0.53	0.5431	102	0.53	0.5079	96	7	75-125	20
Magnesium, Total	4.17	10	14.6	104	10	12.5	83	15	75-125	20
Manganese, Total	0.01204	0.5	0.5282	103	0.5	0.4847	94	9	75-125	20
Nickel, Total	0.00332	0.5	0.5358	106	0.5	0.4965	99	8	75-125	20
Potassium, Total	25.4	10	36.8	114	10	33.3	79	10	75-125	20
Selenium, Total	ND	0.12	0.113	94	0.12	0.113	94	0	75-125	20
Silver, Total	ND	0.05	0.05194	104	0.05	0.04728	94	9	75-125	20
Sodium, Total	33.8	10	46.6	128 Q	10	40.6	68 Q	14	75-125	20
Thallium, Total	0.00033J	0.12	0.1208	101	0.12	0.1135	94	6	75-125	20
Vanadium, Total	ND	0.5	0.5257	105	0.5	0.4804	96	9	75-125	20
Zinc, Total	ND	0.5	0.5178	104	0.5	0.5024	100	3	75-125	20

Form 5b
Post Digest Spike Recovery

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Client Sample ID	: MW-8S	**Matrix**	: WATER
Lab Sample ID	: L2410579-08		
Post Spike	: WG1891325-5	**PS Analysis Date**	: 03/04/24 15:57

		Post Spike Sample			
	Sample	Spike	Spike		
	Conc.	Added	Conc.	%R	Recovery
Parameter	(mg/l)	(mg/l)	(mg/l)		Limits
Calcium, Dissolved	36.7	50	87.6	102	75-125
Potassium, Dissolved	27.6	50	79.0	103	75-125
Sodium, Dissolved	38.6	50	89.2	101	75-125

Form 5b
Post Digest Spike Recovery

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Client Sample ID	: MW-8S	**Matrix**	: WATER
Lab Sample ID	: L2410579-08		
Post Spike	: WG1891173-5	**PS Analysis Date**	: 03/05/24 10:24

		Post Spike Sample			
	Sample Conc.	Spike Added	Spike Conc.	%R	Recovery
Parameter	(mg/l)	(mg/l)	(mg/l)		Limits
Calcium, Total	33.8	50	80.6	92	75-125
Sodium, Total	33.8	50	78.8	90	75-125

Form 7
Laboratory Control Sample

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: WG1891325-2	**LCS Analysis Date**	: 03/04/24 15:43
Dup Sample ID	:	**LCSD Analysis Date**	:

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	True (mg/l)	Found (mg/l)	%R	True (mg/l)	Found (mg/l)	%R	RPD	Recovery Limits	RPD Limit
Aluminum, Dissolved	2.00	2.06	103.					80-120	20
Arsenic, Dissolved	0.120	0.123	102.					80-120	20
Barium, Dissolved	2.00	2.04	102.					80-120	20
Beryllium, Dissolved	0.0500	0.0536	107.					80-120	20
Cadmium, Dissolved	0.0530	0.0537	101.					80-120	20
Calcium, Dissolved	10.0	9.24	92.					80-120	20
Chromium, Dissolved	0.200	0.202	101.					80-120	20
Cobalt, Dissolved	0.500	0.520	104.					80-120	20
Copper, Dissolved	0.250	0.260	104.					80-120	20
Lead, Dissolved	0.530	0.556	105.					80-120	20
Magnesium, Dissolved	10.0	10.1	101.					80-120	20
Manganese, Dissolved	0.500	0.525	105.					80-120	20
Nickel, Dissolved	0.500	0.517	103.					80-120	20
Potassium, Dissolved	10.0	10.0	100.					80-120	20
Selenium, Dissolved	0.120	0.117	98.					80-120	20
Silver, Dissolved	0.0500	0.0506	101.					80-120	20
Sodium, Dissolved	10.0	10.6	106.					80-120	20
Thallium, Dissolved	0.120	0.121	101.					80-120	20
Vanadium, Dissolved	0.500	0.496	99.					80-120	20
Zinc, Dissolved	0.500	0.501	100.					80-120	20

Form 7
Laboratory Control Sample

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: WG1891325-2	**LCS Analysis Date**	: 03/04/24 21:07
Dup Sample ID	:	**LCSD Analysis Date**	:

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	True (mg/l)	Found (mg/l)	%R	True (mg/l)	Found (mg/l)	%R	RPD	Recovery Limits	RPD Limit
Antimony, Dissolved	0.500	0.414	83.					80-120	20

Form 7
Laboratory Control Sample

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: WG1891325-2	**LCS Analysis Date**	: 03/05/24 06:42
Dup Sample ID	:	**LCSD Analysis Date**	:

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	**True (mg/l)**	**Found (mg/l)**	**%R**	**True (mg/l)**	**Found (mg/l)**	**%R**	**RPD**	**Recovery Limits**	**RPD Limit**
Iron, Dissolved	**1.00**	**1.14**	**114.**					**80-120**	**20**

Form 7
Laboratory Control Sample

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: WG1891173-2	**LCS Analysis Date**	: 03/05/24 10:10
Dup Sample ID	:	**LCSD Analysis Date**	:

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	True (mg/l)	Found (mg/l)	%R	True (mg/l)	Found (mg/l)	%R	RPD	Recovery Limits	RPD Limit
Aluminum, Total	2.00	2.04	102.					80-120	20
Antimony, Total	0.500	0.402	80.					80-120	20
Arsenic, Total	0.120	0.122	102.					80-120	20
Barium, Total	2.00	1.94	97.					80-120	20
Beryllium, Total	0.0500	0.0544	109.					80-120	20
Cadmium, Total	0.0530	0.0534	101.					80-120	20
Calcium, Total	10.0	8.92	89.					80-120	20
Chromium, Total	0.200	0.197	99.					80-120	20
Cobalt, Total	0.500	0.512	102.					80-120	20
Copper, Total	0.250	0.263	105.					80-120	20
Iron, Total	1.00	1.10	110.					80-120	20
Lead, Total	0.530	0.537	101.					80-120	20
Magnesium, Total	10.0	9.60	96.					80-120	20
Manganese, Total	0.500	0.515	103.					80-120	20
Nickel, Total	0.500	0.536	107.					80-120	20
Potassium, Total	10.0	9.52	95.					80-120	20
Selenium, Total	0.120	0.126	105.					80-120	20
Silver, Total	0.0500	0.0508	102.					80-120	20
Sodium, Total	10.0	9.83	98.					80-120	20
Thallium, Total	0.120	0.119	99.					80-120	20
Vanadium, Total	0.500	0.512	102.					80-120	20
Zinc, Total	0.500	0.525	105.					80-120	20

Form 8
Serial Dilutions

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Client Sample ID	: MW-8S	**Matrix**	: WATER
Lab Sample ID	: L2410579-08	**Analysis Date**	: 03/04/24 16:06
Serial Dilution ID	: WG1891325-6	**Analysis Date**	: 03/04/24 16:01

Parameter	Initial Sample Result (mg/l)	Serial Dilution Result (mg/l)	% Difference	%D Limit
Barium, Dissolved	0.07223	0.06834	5	20
Calcium, Dissolved	36.7	34.3	7	20
Magnesium, Dissolved	4.50	4.10	9	20
Potassium, Dissolved	27.6	25.9	6	20
Sodium, Dissolved	38.6	34.0	12	20

Form 12
Preparation Log

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Matrix	: WATER	**Prep Method**	: EPA 3005A

Sample Number	Preparation Date	Weight (gram)	Volume (mL)
L2410579-01	03/01/24 23:45	-	50
L2410579-02	03/01/24 23:45	-	50
L2410579-03	03/01/24 23:45	-	50
L2410579-04	03/01/24 23:45	-	50
L2410579-05	03/01/24 23:45	-	50
L2410579-06	03/01/24 23:45	-	50
L2410579-07	03/01/24 23:45	-	50
L2410579-08	03/01/24 23:45	-	50
L2410579-09	03/01/24 23:45	-	50
L2410579-10	03/01/24 23:45	-	50
WG1891325-1	03/01/24 23:45	-	50
WG1891325-2	03/01/24 23:45	-	50
WG1891325-3	03/01/24 23:45	-	50
WG1891325-4	03/01/24 23:45	-	50
WG1891325-5	03/01/24 23:45	-	50
WG1891325-6	03/01/24 23:45	-	50

Form 12
Preparation Log

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Matrix	: WATER	**Prep Method**	: EPA 3005A

Sample Number	Preparation Date	Weight (gram)	Volume (mL)
WG1891325-2	03/01/24 23:45	-	50

Form 12
Preparation Log

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Matrix	: WATER	**Prep Method**	: EPA 3005A

Sample Number	Preparation Date	Weight (gram)	Volume (mL)
L2410579-01	03/01/24 13:15	-	50
L2410579-02	03/01/24 13:15	-	50
L2410579-03	03/01/24 13:15	-	50
L2410579-04	03/01/24 13:15	-	50
L2410579-05	03/01/24 13:15	-	50
L2410579-06	03/01/24 13:15	-	50
L2410579-07	03/01/24 13:15	-	50
L2410579-08	03/01/24 13:15	-	50
L2410579-09	03/01/24 13:15	-	50
L2410579-10	03/01/24 13:15	-	50
WG1891173-1	03/01/24 13:15	-	50
WG1891173-2	03/01/24 13:15	-	50
WG1891173-3	03/01/24 13:15	-	50
WG1891173-4	03/01/24 13:15	-	50
WG1891173-5	03/01/24 13:15	-	50

Form 13
Analysis Run Log

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Instrument ID	: ICPMSQ	**Analysis Method**	: 1,6020B
Start Date	: 03/04/24 04:53	**End Date**	: 03/04/24 21:20

Sample Number	Dilution Factor	Analysis Time	Aluminum, Dissolved	Antimony, Dissolved	Arsenic, Dissolved	Barium, Dissolved	Beryllium, Dissolved	Cadmium, Dissolved	Calcium, Dissolved	Chromium, Dissolved	Cobalt, Dissolved	Copper, Dissolved	Iron, Dissolved	Lead, Dissolved	Magnesium, Dissolved	Manganese, Dissolved	Nickel, Dissolved	Potassium, Dissolved	Selenium, Dissolved	Silver, Dissolved	Sodium, Dissolved	Thallium, Dissolved	Vanadium, Dissolved	Zinc, Dissolved
R1800987-14 TUNE		04:53:00																						
R1800987-1 ICV	1	05:51:40	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1800987-2 ICB	1	05:56:20	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1800987-3 ICV	1	06:03:29	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1800987-4 ICB	1	06:08:09	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1800987-5 ICSA	1	06:12:50	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1800987-6 CCV	1	06:26:48	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1800987-7 CCB	1	06:31:30	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1800987-8 CCV	1	07:28:30	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1800987-9 CCB	1	07:33:12	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1800987-10 CCV	1	08:29:22	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1800987-11 CCB	1	08:34:03	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1800987-12 CCV	1	09:25:39	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1800987-13 CCB	1	09:30:21	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1800987-15 CCV	1	10:31:39	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1800987-16 CCB	1	10:36:21	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1800987-17 CCV	1	11:28:47	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1800987-18 CCB	1	11:33:29	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1800987-19 CCV	1	12:27:52	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1800987-20 CCB	1	12:32:34	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1800987-21 CCV	1	13:26:04	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1800987-22 CCB	1	13:31:45	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1800987-23 CCV	1	14:21:46	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1800987-24 CCB	1	14:26:28	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1800987-25 CCV	1	15:06:34	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1800987-26 CCB	1	15:11:17	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
WG1891325-2 LCS	10	15:43:22	X		X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X

Form 13
Analysis Run Log

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Instrument ID	: ICPMSQ	**Analysis Method**	: 1,6020B
Start Date	: 03/04/24 04:53	**End Date**	: 03/04/24 21:20

Sample Number	Dilution Factor	Analysis Time	Aluminum, Dissolved	Antimony, Dissolved	Arsenic, Dissolved	Barium, Dissolved	Beryllium, Dissolved	Cadmium, Dissolved	Calcium, Dissolved	Chromium, Dissolved	Cobalt, Dissolved	Copper, Dissolved	Iron, Dissolved	Lead, Dissolved	Magnesium, Dissolved	Manganese, Dissolved	Nickel, Dissolved	Potassium, Dissolved	Selenium, Dissolved	Silver, Dissolved	Sodium, Dissolved	Thallium, Dissolved	Vanadium, Dissolved	Zinc, Dissolved
WG1891325-3 MS	10	15:48:01	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
WG1891325-4 MSD	10	15:52:40	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
WG1891325-5 PS	10	15:57:19							X									X			X			
WG1891325-6 SERDIL	5	16:01:58				X			X						X			X			X			
L2410579-08	1	16:06:37	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
L2410579-01	1	16:11:16	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
L2410579-02	1	16:15:55	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
L2410579-03	1	16:20:34	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1800987-27 CCV	1	16:25:14	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1800987-28 CCB	1	16:29:56	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1800987-29 CCV	1	16:49:21	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1800987-30 CCB	1	16:54:02	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
WG1891325-1 BLANK	1	17:12:33	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
L2410579-10	1	17:17:13	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
L2410579-04	1	17:21:52	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
L2410579-05	1	17:26:32	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
L2410579-06	1	17:31:12	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1800987-31 CCV	1	18:14:41	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1800987-32 CCB	1	18:19:22	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
L2410579-07	1	18:26:20	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
L2410579-09	1	18:31:00	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1800987-33 CCV	1	18:49:05	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1800987-34 CCB	1	18:53:48	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1800987-35 CCV	1	19:45:55	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1800987-36 CCB	1	19:50:38	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1800987-37 CCV	1	20:02:56	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1800987-38 CCB	1	20:07:38	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

Form 13
Analysis Run Log

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Instrument ID	: ICPMSQ	**Analysis Method**	: 1,6020B
Start Date	: 03/04/24 04:53	**End Date**	: 03/04/24 21:20

Sample Number	Dilution Factor	Analysis Time	Aluminum, Dissolved	Antimony, Dissolved	Arsenic, Dissolved	Barium, Dissolved	Beryllium, Dissolved	Cadmium, Dissolved	Calcium, Dissolved	Chromium, Dissolved	Cobalt, Dissolved	Copper, Dissolved	Iron, Dissolved	Lead, Dissolved	Magnesium, Dissolved	Manganese, Dissolved	Nickel, Dissolved	Potassium, Dissolved	Selenium, Dissolved	Silver, Dissolved	Sodium, Dissolved	Thallium, Dissolved	Vanadium, Dissolved	Zinc, Dissolved
R1800987-39 CCV	1	20:37:51	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1800987-40 CCB	1	20:42:34	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
WG1891325-2 LCS	10	21:07:10		X																				
R1800987-41 CCV	1	21:15:32	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1800987-42 CCB	1	21:20:15	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

Form 13
Analysis Run Log

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Instrument ID	:	**Analysis Method**	:
Start Date	: 03/05/24 04:50	**End Date**	: 03/05/24 07:19

Sample Number	Dilution Factor	Analysis Time	Iron, Dissolved
R1801364-8 TUNE		04:50:00	
R1801364-1 ICV	1	05:43:49	X
R1801364-2 ICB	1	05:48:28	X
R1801364-3 ICSA	1	05:53:22	X
R1801364-4 CCV	1	06:13:54	X
R1801364-5 CCB	1	06:18:35	X
WG1891325-2 LCS	20	06:42:15	X
R1801364-6 CCV	1	07:14:40	X
R1801364-7 CCB	1	07:19:22	X

Form 13
Analysis Run Log

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Instrument ID	: ICPMSQ2	**Analysis Method**	: 1,6020B
Start Date	: 03/05/24 04:56	**End Date**	: 03/05/24 13:34

Sample Number	Dilution Factor	Analysis Time	Aluminum, Total	Antimony, Total	Arsenic, Total	Barium, Total	Beryllium, Total	Cadmium, Total	Calcium, Total	Chromium, Total	Cobalt, Total	Copper, Total	Iron, Total	Lead, Total	Magnesium, Total	Manganese, Total	Nickel, Total	Potassium, Total	Selenium, Total	Silver, Total	Sodium, Total	Thallium, Total	Vanadium, Total	Zinc, Total
R1801421-15 TUNE		04:56:00																						
R1801421-1 ICV	1	06:09:22	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1801421-2 ICB	1	06:13:51	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1801421-4 CCV	1	06:35:02	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1801421-5 CCB	1	06:39:32	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1801421-6 ICSA	1	06:47:18	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1801421-7 CCV	1	06:56:10	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1801421-8 CCB	1	07:00:40	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1801421-9 CCV	1	08:06:16	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1801421-10 CCB	1	08:10:47	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1801421-11 CCV	1	09:04:25	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1801421-12 CCB	1	09:08:56	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1801421-13 CCV	1	09:30:34	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1801421-14 CCB	1	09:35:05	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1801421-16 CCV	1	09:52:12	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1801421-17 CCB	1	09:57:58	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
WG1891173-1 BLANK	1	10:06:27	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
WG1891173-2 LCS	10	10:10:54	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
WG1891173-3 MS	10	10:15:53	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
WG1891173-4 MSD	10	10:20:20	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
WG1891173-5 PS	10	10:24:48							X												X			
L2410579-08	1	10:33:44	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
L2410579-01	1	10:47:09	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1801421-18 CCV	1	10:51:38	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1801421-19 CCB	1	10:56:09	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
L2410579-08	10	11:09:33																X						
L2410579-01	10	11:18:30							X															

Form 13
Analysis Run Log

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Instrument ID	: ICPMSQ2	**Analysis Method**	: 1,6020B
Start Date	: 03/05/24 04:56	**End Date**	: 03/05/24 13:34

Sample Number	Dilution Factor	Analysis Time	Aluminum, Total	Antimony, Total	Arsenic, Total	Barium, Total	Beryllium, Total	Cadmium, Total	Calcium, Total	Chromium, Total	Cobalt, Total	Copper, Total	Iron, Total	Lead, Total	Magnesium, Total	Manganese, Total	Nickel, Total	Potassium, Total	Selenium, Total	Silver, Total	Sodium, Total	Thallium, Total	Vanadium, Total	Zinc, Total
L2410579-02	1	11:22:58	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
L2410579-03	1	11:27:25	X	X	X	X	X	X		X	X	X	X	X	X	X	X		X	X	X	X	X	X
L2410579-04	1	11:31:52	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
L2410579-05	1	11:36:19	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
L2410579-06	1	11:40:46	X	X	X	X	X	X		X	X	X	X	X			X		X	X	X	X	X	X
L2410579-07	1	11:45:14	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
L2410579-09	1	11:49:41	X	X	X	X	X	X		X	X	X	X	X			X		X	X	X	X	X	X
R1801421-20 CCV	1	11:57:48	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1801421-21 CCB	1	12:04:49	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1801421-22 CCV	1	12:45:34	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1801421-23 CCB	1	12:50:05	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
L2410579-10	1	12:58:40	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
L2410579-02	10	13:03:08							X															
L2410579-03	10	13:07:38							X									X						
L2410579-05	10	13:12:07																			X			
L2410579-06	10	13:16:36							X						X	X		X						
L2410579-07	10	13:21:04							X															
L2410579-09	10	13:25:32							X						X	X		X						
R1801421-24 CCV	1	13:30:00	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1801421-25 CCB	1	13:34:31	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

Form 14
ICP-MS Tune

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab Sample ID	: R1800987-14	**Analysis Date**	: 03/04/24 04:53
ICP-MS Instrument	: iCAP Q		

Mass Element	Avg Measured Mass (amu)	Avg. Peak Width at 10% Peak Height (amu)	%RSD
59 Co	58.9339	0.689	0.5
115 In	114.9246	0.696	2.2
7 Li	6.9958	0.721	1.4
238 U	238.0971	0.695	0.7

Form 14
ICP-MS Tune

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab Sample ID	: R1801364-8	**Analysis Date**	: 03/05/24 04:50
ICP-MS Instrument	: iCAP Q		

Mass Element	Avg Measured Mass (amu)	Avg. Peak Width at 10% Peak Height (amu)	%RSD
59 Co	58.9311	0.687	0.5
115 In	114.9229	0.692	2
7 Li	6.9902	0.725	0.9
238 U	238.0934	0.7	1

Form 14
ICP-MS Tune

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab Sample ID	: R1801421-15	**Analysis Date**	: 03/05/24 04:56
ICP-MS Instrument	: iCAP Q		

Mass Element	Avg Measured Mass (amu)	Avg. Peak Width at 10% Peak Height (amu)	%RSD
59 Co	58.9154	0.709	0.7
115 In	114.8722	0.739	1
7 Li	7.0288	0.658	0.5
238 U	238.0348	0.757	1.2

Form 15
ICP-MS Internal Standards Relative Intensity Summary

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Instrument ID	: ICPMSQ	**Analysis Method**	: 1,6020B
Start Date	: 03/04/24	**End Date**	: 03/04/24

Sample #	Time	Internal Standards %RI For:			
		Lithium	Scandium	Ge	In
R1800987-1 ICV	05:51:40	91	102	94	96
R1800987-2 ICB	05:56:20	88	91	92	93
R1800987-3 ICV	06:03:29	89	111	96	103
R1800987-4 ICB	06:08:09	88	92	91	95
R1800987-5 ICSA	06:12:50	77	107	92	99
R1800987-6 CCV	06:26:48	88	103	103	104
R1800987-7 CCB	06:31:30	86	105	96	108
R1800987-8 CCV	07:28:30	81	104	92	99
R1800987-9 CCB	07:33:12	80	98	92	99
R1800987-10 CCV	08:29:22	81	108	105	110
R1800987-11 CCB	08:34:03	81	103	101	115
R1800987-12 CCV	09:25:39	76	103	101	106
R1800987-13 CCB	09:30:21	76	80	93	102
R1800987-15 CCV	10:31:39	76	92	97	105
R1800987-16 CCB	10:36:21	76	86	96	103
R1800987-17 CCV	11:28:47	76	101	94	102
R1800987-18 CCB	11:33:29	74	92	92	105
R1800987-19 CCV	12:27:52	77	98	92	97
R1800987-20 CCB	12:32:34	77	85	87	93
R1800987-21 CCV	13:26:04	75	98	97	101
R1800987-22 CCB	13:31:45	75	89	92	99
R1800987-23 CCV	14:21:46	71	99	91	100
R1800987-24 CCB	14:26:28	70	77	86	93
R1800987-25 CCV	15:06:34	76	97	95	103
R1800987-26 CCB	15:11:17	75	87	94	104
WG1891325-2 LCS	15:43:22	80	108	97	108
WG1891325-3 MS	15:48:01	78	100	96	106

Form 15
ICP-MS Internal Standards Relative Intensity Summary

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Instrument ID	: ICPMSQ	**Analysis Method**	: 1,6020B
Start Date	: 03/04/24	**End Date**	: 03/04/24

Sample #	Time	Internal Standards %RI For:			
		Lithium	Scandium	Ge	In
WG1891325-4 MSD	15:52:40	78	99	96	106
WG1891325-5 PS	15:57:19	75	85	88	89
WG1891325-6 SERDIL	16:01:58	77	83	90	98
L2410579-08	16:06:37	77	97	94	100
L2410579-01	16:11:16	75	96	92	97
L2410579-02	16:15:55	79	96	93	104
L2410579-03	16:20:34	76	97	96	102
R1800987-27 CCV	16:25:14	74	88	90	95
R1800987-28 CCB	16:29:56	74	87	90	97
R1800987-29 CCV	16:49:21	74	110	96	109
R1800987-30 CCB	16:54:02	73	86	91	103
WG1891325-1 BLANK	17:12:33	82	101	97	108
L2410579-10	17:17:13	78	94	96	105
L2410579-04	17:21:52	79	97	96	104
L2410579-05	17:26:32	77	101	96	102
L2410579-06	17:31:12	74	86	91	93
R1800987-31 CCV	18:14:41	90	136	98	137
R1800987-32 CCB	18:19:22	82	100	95	104
L2410579-07	18:26:20	84	108	96	104
L2410579-09	18:31:00	80	102	92	100
R1800987-33 CCV	18:49:05	77	109	100	106
R1800987-34 CCB	18:53:48	74	92	99	108
R1800987-35 CCV	19:45:55	69	95	90	97
R1800987-36 CCB	19:50:38	68	78	88	96
R1800987-37 CCV	20:02:56	72	104	90	102
R1800987-38 CCB	20:07:38	71	83	87	95
R1800987-39 CCV	20:37:51	71	97	92	101

Form 15
ICP-MS Internal Standards Relative Intensity Summary

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Instrument ID	: ICPMSQ	**Analysis Method**	: 1,6020B
Start Date	: 03/04/24	**End Date**	: 03/04/24

Sample #	Time	Internal Standards %RI For:			
		Lithium	Scandium	Ge	In
R1800987-40 CCB	20:42:34	69	85	88	99
WG1891325-2 LCS	21:07:10	76	90	93	100
R1800987-41 CCV	21:15:32	74	95	89	96
R1800987-42 CCB	21:20:15	72	83	88	96

Form 15
ICP-MS Internal Standards Relative Intensity Summary

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Instrument ID	:	**Analysis Method**	:
Start Date	: 03/05/24	**End Date**	: 03/05/24

Sample #	Time	Internal Standards %RI For:			
		Lithium	Scandium	Ge	In
R1801364-1 ICV	05:43:49	86	88	89	89
R1801364-2 ICB	05:48:28	86	87	88	89
R1801364-3 ICSA	05:53:22	76	88	85	83
R1801364-4 CCV	06:13:54	87	97	97	100
R1801364-5 CCB	06:18:35	87	88	88	94
WG1891325-2 LCS	06:42:15	83	87	89	88
R1801364-6 CCV	07:14:40	80	84	89	85
R1801364-7 CCB	07:19:22	81	72	85	86

Form 15
ICP-MS Internal Standards Relative Intensity Summary

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Instrument ID	: ICPMSQ2	**Analysis Method**	: 1,6020B
Start Date	: 03/05/24	**End Date**	: 03/05/24

Sample #	Time	Internal Standards %RI For:				
		Lithium	Scandium	Ge	In	Bismuth
R1801421-1 ICV	06:09:22	99	90	97	93	106
R1801421-2 ICB	06:13:51	95	90	94	90	101
R1801421-4 CCV	06:35:02	103	98	106	103	117
R1801421-5 CCB	06:39:32	97	95	97	98	108
R1801421-6 ICSA	06:47:18	99	77	107	103	116
R1801421-7 CCV	06:56:10	97	90	99	93	106
R1801421-8 CCB	07:00:40	90	84	83	82	92
R1801421-9 CCV	08:06:16	93	86	93	90	104
R1801421-10 CCB	08:10:47	88	81	83	82	92
R1801421-11 CCV	09:04:25	96	91	98	96	104
R1801421-12 CCB	09:08:56	91	89	91	89	100
R1801421-13 CCV	09:30:34	94	89	93	92	103
R1801421-14 CCB	09:35:05	88	86	88	86	94
R1801421-16 CCV	09:52:12	92	88	94	92	101
R1801421-17 CCB	09:57:58	86	81	80	78	86
WG1891173-1 BLANK	10:06:27	87	80	90	92	101
WG1891173-2 LCS	10:10:54	90	83	88	84	94
WG1891173-3 MS	10:15:53	92	83	91	86	96
WG1891173-4 MSD	10:20:20	93	84	88	84	94
WG1891173-5 PS	10:24:48	86	74	89	86	94
L2410579-08	10:33:44	91	70	91	82	87
L2410579-01	10:47:09	97	69	97	93	99
R1801421-18 CCV	10:51:38	93	84	87	83	91
R1801421-19 CCB	10:56:09	88	78	83	82	88
L2410579-08	11:09:33	97	88	93	93	104
L2410579-01	11:18:30	95	84	94	90	98
L2410579-02	11:22:58	98	72	99	91	96

Form 15
ICP-MS Internal Standards Relative Intensity Summary

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Instrument ID	: ICPMSQ2	**Analysis Method**	: 1,6020B
Start Date	: 03/05/24	**End Date**	: 03/05/24

Sample #	Time	Internal Standards %RI For:				
		Lithium	Scandium	Ge	In	Bismuth
L2410579-03	11:27:25	99	73	100	94	98
L2410579-04	11:31:52	96	71	88	85	88
L2410579-05	11:36:19	96	75	87	85	88
L2410579-06	11:40:46	99	69	98	92	95
L2410579-07	11:45:14	101	73	96	94	97
L2410579-09	11:49:41	93	59	96	90	93
R1801421-20 CCV	11:57:48	96	88	91	85	94
R1801421-21 CCB	12:04:49	89	80	85	84	90
R1801421-22 CCV	12:45:34	93	84	89	85	89
R1801421-23 CCB	12:50:05	92	84	87	86	90
L2410579-10	12:58:40	92	86	88	84	90
L2410579-02	13:03:08	93	79	85	84	90
L2410579-03	13:07:38	95	76	88	85	88
L2410579-05	13:12:07	94	85	87	86	92
L2410579-06	13:16:36	94	80	88	86	90
L2410579-07	13:21:04	96	83	96	91	94
L2410579-09	13:25:32	96	81	94	91	94
R1801421-24 CCV	13:30:00	93	89	90	89	93
R1801421-25 CCB	13:34:31	89	84	85	88	90

Date Created: 01/22/21
Created By: Jason Hebert
File: PM9836-1
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METALS by 6020B (WATER)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria	Holding Time	Container/Sample Preservation
Aluminum, Total	7429-90-5	0.01	0.00327	mg/l	80-120		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Antimony, Total	7440-36-0	0.004	0.000429	mg/l	80-120		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Arsenic, Total	7440-38-2	0.0005	0.000165	mg/l	80-120		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Barium, Total	7440-39-3	0.0005	0.000173	mg/l	80-120		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Beryllium, Total	7440-41-7	0.0005	0.000107	mg/l	80-120		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Cadmium, Total	7440-43-9	0.0002	0.0000599	mg/l	80-120		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Calcium, Total	7440-70-2	0.1	0.0394	mg/l	80-120		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Chromium, Total	7440-47-3	0.001	0.000178	mg/l	80-120		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Cobalt, Total	7440-48-4	0.0005	0.000163	mg/l	80-120		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Copper, Total	7440-50-8	0.001	0.000384	mg/l	80-120		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Lithium, Total	7439-93-2	0.001	0.000083	mg/l	80-120		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Iron, Total	7439-89-6	0.05	0.0191	mg/l	80-120		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Lead, Total	7439-92-1	0.001	0.000343	mg/l	80-120		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Magnesium, Total	7439-95-4	0.07	0.0242	mg/l	80-120		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Manganese, Total	7439-96-5	0.001	0.00044	mg/l	80-120		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Nickel, Total	7440-02-0	0.002	0.000556	mg/l	80-120		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Potassium, Total	7440-09-7	0.1	0.0309	mg/l	80-120		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Selenium, Total	7782-49-2	0.005	0.00173	mg/l	80-120		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Silver, Total	7440-22-4	0.0004	0.000163	mg/l	80-120		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Sodium, Total	7440-23-5	0.1	0.0293	mg/l	80-120		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Thallium, Total	7440-28-0	0.0005	0.000143	mg/l	80-120		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Vanadium, Total	7440-62-2	0.005	0.00157	mg/l	80-120		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Zinc, Total	7440-66-6	0.01	0.00341	mg/l	80-120		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

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File: PM9837-1
Page: 1

METALS by 6020B (SOIL)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria	Holding Time	Container/Sample Preservation
Aluminum, Total	7429-90-5	10	1.48	mg/kg	48-151	20	75-125	20	20		180 days	Metals Only-Glass 60mL/2oz unpreserv
Antimony, Total	7440-36-0	0.16	0.01352	mg/kg	1-208	20	75-125	20	20		180 days	Metals Only-Glass 60mL/2oz unpreserv
Arsenic, Total	7440-38-2	0.05	0.0066	mg/kg	79-121	20	75-125	20	20		180 days	Metals Only-Glass 60mL/2oz unpreserv
Barium, Total	7440-39-3	0.3	0.02112	mg/kg	83-117	20	75-125	20	20		180 days	Metals Only-Glass 60mL/2oz unpreserv
Beryllium, Total	7440-41-7	0.03	0.00872	mg/kg	83-117	20	75-125	20	20		180 days	Metals Only-Glass 60mL/2oz unpreserv
Cadmium, Total	7440-43-9	0.02	0.00264	mg/kg	83-117	20	75-125	20	20		180 days	Metals Only-Glass 60mL/2oz unpreserv
Calcium, Total	7440-70-2	50	6.08	mg/kg	81-119	20	75-125	20	20		180 days	Metals Only-Glass 60mL/2oz unpreserv
Chromium, Total	7440-47-3	0.2	0.0468	mg/kg	80-120	20	75-125	20	20		180 days	Metals Only-Glass 60mL/2oz unpreserv
Cobalt, Total	7440-48-4	0.05	0.00532	mg/kg	84-115	20	75-125	20	20		180 days	Metals Only-Glass 60mL/2oz unpreserv
Copper, Total	7440-50-8	0.2	0.0194	mg/kg	81-118	20	75-125	20	20		180 days	Metals Only-Glass 60mL/2oz unpreserv
Iron, Total	7439-89-6	20	2.06	mg/kg	45-155	20	75-125	20	20		180 days	Metals Only-Glass 60mL/2oz unpreserv
Lead, Total	7439-92-1	0.06	0.0146	mg/kg	81-117	20	75-125	20	20		180 days	Metals Only-Glass 60mL/2oz unpreserv
Magnesium, Total	7439-95-4	10	1.232	mg/kg	76-124	20	75-125	20	20		180 days	Metals Only-Glass 60mL/2oz unpreserv
Manganese, Total	7439-96-5	0.2	0.0444	mg/kg	81-117	20	75-125	20	20		180 days	Metals Only-Glass 60mL/2oz unpreserv
Nickel, Total	7440-02-0	0.1	0.02672	mg/kg	83-117	20	75-125	20	20		180 days	Metals Only-Glass 60mL/2oz unpreserv
Potassium, Total	7440-09-7	10	1.588	mg/kg	71-129	20	75-125	20	20		180 days	Metals Only-Glass 60mL/2oz unpreserv
Selenium, Total	7782-49-2	0.2	0.0756	mg/kg	78-122	20	75-125	20	20		180 days	Metals Only-Glass 60mL/2oz unpreserv
Silver, Total	7440-22-4	0.05	0.00488	mg/kg	75-124	20	75-125	20	20		180 days	Metals Only-Glass 60mL/2oz unpreserv
Sodium, Total	7440-23-5	15	1.172	mg/kg	72-127	20	75-125	20	20		180 days	Metals Only-Glass 60mL/2oz unpreserv
Thallium, Total	7440-28-0	0.02	0.00516	mg/kg	80-120	20	75-125	20	20		180 days	Metals Only-Glass 60mL/2oz unpreserv
Vanadium, Total	7440-62-2	0.1	0.03792	mg/kg	78-122	20	75-125	20	20		180 days	Metals Only-Glass 60mL/2oz unpreserv
Zinc, Total	7440-66-6	1	0.26	mg/kg	82-118	20	75-125	20	20		180 days	Metals Only-Glass 60mL/2oz unpreserv

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

Performance Report

System

Start time:	3/4/2024 4:53:44 AM
Instrument:	iCAP Q
Operator:	ALPHALAB\Metals-Instrument
Template:	STD AGD
Instrument Serial Number:	03031R
Last Autotune:	Autotune-SourceTune High Matrix-20231126-105338396.imatdat
Solution:	1 ppb Tune B in 2% HNO3 and 0.5% HCl.

Sensitivity & Stability Test

Result	Runs	Sweeps
Passed	5	10

Sensitivity

Analyte	Result	Value	Condition	Limit
Bkg4.5	Passed	2.2 CPS	Less than	5.0 CPS
Bkg220.7	Passed	0.0 CPS	Less than	5.0 CPS
7Li	Passed	30,961.0 CPS	Greater than	10,000.0 CPS
59Co	Passed	32,416.0 CPS	Greater than	1,000.0 CPS
238U	Passed	77,104.0 CPS	Greater than	20,000.0 CPS
140Ce.16O/140Ce	Passed	0.0099	Less than	0.025
137Ba++/137Ba	Passed	0.0072	Less than	0.034
115In	Passed	63,474.0 CPS	Greater than	5,000.0 CPS

Stability

Analyte	Value	Limit
7Li	1.4%	5
59Co	0.5%	5
238U	0.7%	5
140Ce.16O	1.5%	2
140Ce	1.0%	2
115In	2.2%	5

Mass Calibration Test

Result	Channels	Dwell	MeasureWidth	PointSpacing	Sweeps
Passed	75	0.04	1.5	0.02	10

Analyte	Result	Centroid Mass [u]	Offset	Peak width [u]	Peak width min [u]	Peak width max [u]
7Li	Passed	6.9958	0.0202	0.721	0.600	0.900
59Co	Passed	58.9339	0.0007	0.689	0.600	0.900
115In	Passed	114.9246	0.0207	0.696	0.600	0.900
238U	Passed	238.0971	0.0463	0.695	0.600	0.900

Tune Settings

Parameter	Value
Additional Gas Flow 1	37.00
Additional Gas Flow 2	0.00
Additional Gas Flow 3	0.00
Angular Deflection	-374.00
Auxilliary Flow	0.80
CCT Bias	0.56
CCT Entry Lens	-89.99
CCT Exit Lens	-160.01
CCT Focus Lens	-4.57
CCT1 Flow	0.00
CCT1 Shut-Off Valve	0.00
CCT2 Flow	0.00
CCT2 Shut-Off Valve	0.00
Cool Flow	14.00
D1 Lens	-198.39
D2 Lens	-80.00
Deflection Entry Lens	-35.00
Dry Pump Speed	0.00
Extraction Lens 1 Negative	0.00
Extraction Lens 1 Polarity	0.00
Extraction Lens 1 Positive	0.00
Extraction Lens 2	-120.10
Focus Lens	21.00
Nebulizer Flow	0.39
Peristaltic Pump Speed	17.00
Plasma Power	1550.00
Pole Bias	3.01
Quad Entry Lens	-25.20
Sampling Depth	5.00
Spray Chamber Temperature	2.70
Torch Horizontal Position	-0.39
Torch Vertical Position	1.30
Virtual CCT Mass Maximum Dac Limit Set	4095.00
Virtual CCT Mass parameter b	1.00
Virtual CCT Mass to Dac Factor	60.00
Virtual CCT Mass to Dac Offset	80.00

Vacuum Check

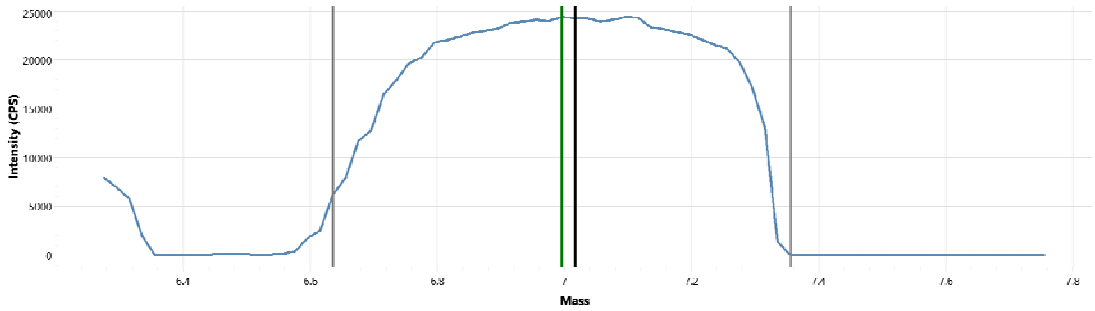
Parameter	Result	Value
Analyzer Pressure	Vacuum ok	1.498e-7
Interface Pressure		1.654e+0

Detector Voltages

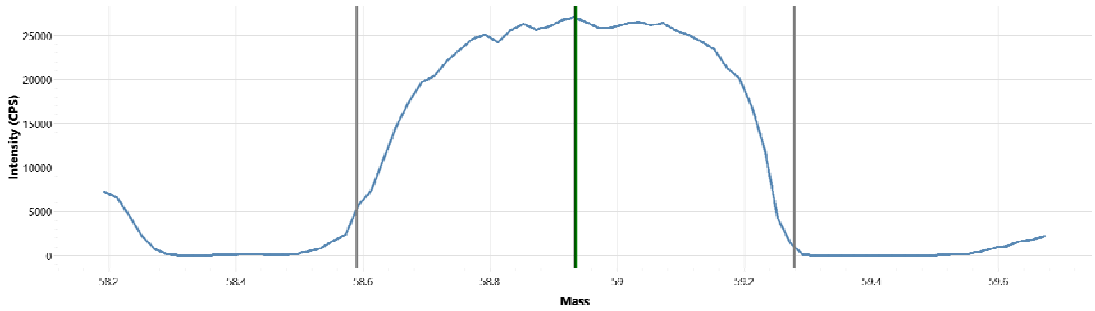
Analog	Counting
-2350.00	1750.00

Mass Calibration Peaks

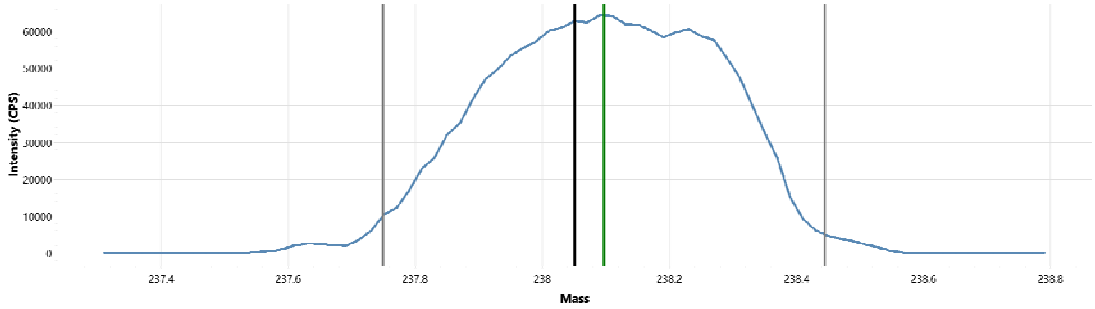
Analyte: 7Li



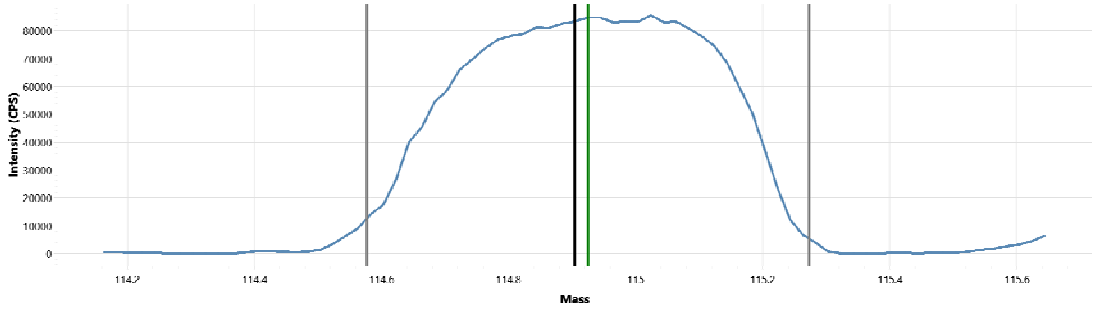
Analyte: 59Co



Analyte: 238U



Analyte: 115In



Performance Report

System

Start time:	3/5/2024 4:50:45 AM
Instrument:	iCAP Q
Operator:	ALPHALAB\Metals-Instrument
Template:	STD AGD
Instrument Serial Number:	03031R
Last Autotune:	Autotune-SourceTune High Matrix-20231126-105338396.imatdat
Solution:	1 ppb Tune B in 2% HNO3 and 0.5% HCl.

Sensitivity & Stability Test

Result	Runs	Sweeps
Passed	5	10

Sensitivity

Analyte	Result	Value	Condition	Limit
Bkg4.5	Passed	1.0 CPS	Less than	5.0 CPS
Bkg220.7	Passed	0.0 CPS	Less than	5.0 CPS
7Li	Passed	27,390.0 CPS	Greater than	10,000.0 CPS
59Co	Passed	31,352.0 CPS	Greater than	1,000.0 CPS
238U	Passed	82,792.0 CPS	Greater than	20,000.0 CPS
140Ce.16O/140Ce	Passed	0.0098	Less than	0.025
137Ba++/137Ba	Passed	0.0069	Less than	0.034
115In	Passed	63,480.0 CPS	Greater than	5,000.0 CPS

Stability

Analyte	Value	Limit
7Li	0.9%	5
59Co	0.5%	5
238U	1.0%	5
140Ce.16O	6.7%	2
140Ce	1.2%	2
115In	2.0%	5

Mass Calibration Test

Result	Channels	Dwell	MeasureWidth	PointSpacing	Sweeps
Passed	75	0.04	1.5	0.02	10

Analyte	Result	Centroid Mass [u]	Offset	Peak width [u]	Peak width min [u]	Peak width max [u]
7Li	Passed	6.9902	0.0258	0.725	0.600	0.900
59Co	Passed	58.9311	0.0021	0.687	0.600	0.900
115In	Passed	114.9229	0.0190	0.692	0.600	0.900
238U	Passed	238.0934	0.0426	0.700	0.600	0.900

Tune Settings

Parameter	Value
Additional Gas Flow 1	37.00
Additional Gas Flow 2	0.00
Additional Gas Flow 3	0.00
Angular Deflection	-374.00
Auxilliary Flow	0.80
CCT Bias	0.56
CCT Entry Lens	-89.99
CCT Exit Lens	-160.01
CCT Focus Lens	-4.57
CCT1 Flow	0.00
CCT1 Shut-Off Valve	0.00
CCT2 Flow	0.00
CCT2 Shut-Off Valve	0.00
Cool Flow	14.00
D1 Lens	-198.39
D2 Lens	-80.00
Deflection Entry Lens	-35.00
Dry Pump Speed	0.00
Extraction Lens 1 Negative	0.00
Extraction Lens 1 Polarity	0.00
Extraction Lens 1 Positive	0.00
Extraction Lens 2	-120.10
Focus Lens	21.00
Nebulizer Flow	0.39
Peristaltic Pump Speed	17.00
Plasma Power	1550.00
Pole Bias	3.01
Quad Entry Lens	-25.20
Sampling Depth	5.00
Spray Chamber Temperature	2.70
Torch Horizontal Position	-0.39
Torch Vertical Position	1.30
Virtual CCT Mass Maximum Dac Limit Set	4095.00
Virtual CCT Mass parameter b	1.00
Virtual CCT Mass to Dac Factor	60.00
Virtual CCT Mass to Dac Offset	80.00

Vacuum Check

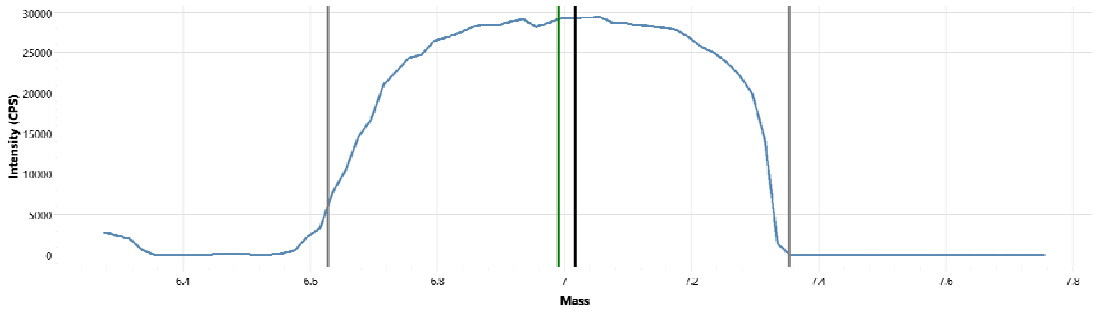
Parameter	Result	Value
Analyzer Pressure	Vacuum ok	1.464e-7
Interface Pressure		1.691e+0

Detector Voltages

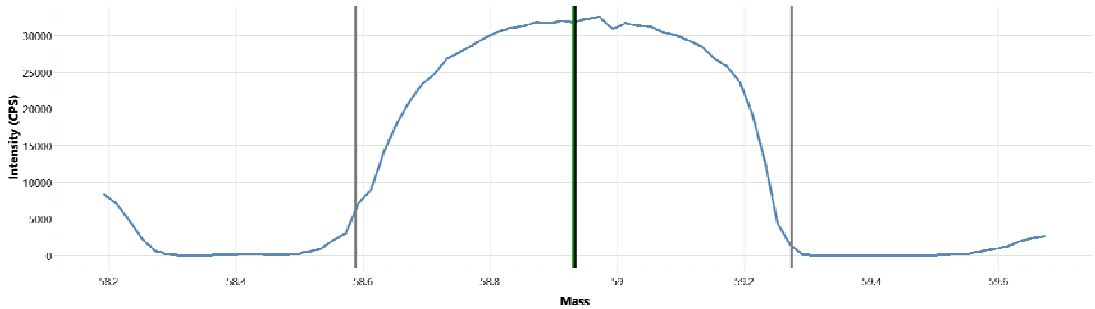
Analog	Counting
-2350.00	1750.00

Mass Calibration Peaks

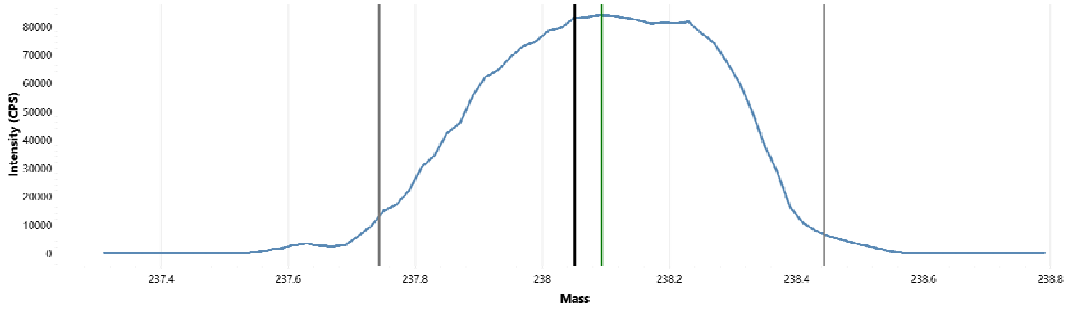
Analyte: 7Li



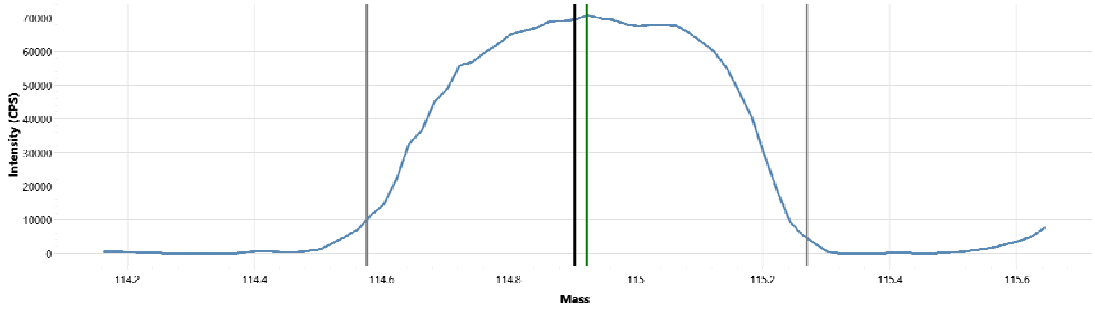
Analyte: 59Co



Analyte: 238U



Analyte: 115In



Performance Report

System

Start time:	3/5/2024 4:56:15 AM
Instrument:	iCAP Q
Operator:	ALPHALAB\a2-icpmsq2
Template:	STD AGD
Instrument Serial Number:	Q01717
Last Autotune:	Autotune-SourceTune High Matrix-20240220-111838576.imatdat
Solution:	1 ppb Tune B in 2% HNO3 and 0.5% HCl.

Sensitivity & Stability Test

Result	Runs	Sweeps
Passed	5	10

Sensitivity

Analyte	Result	Value	Condition	Limit
Bkg4.5	Passed	0.2 CPS	Less than	1.0 CPS
Bkg220.7	Passed	0.0 CPS	Less than	5.0 CPS
7Li	Passed	20,141.0 CPS	Greater than	10,000.0 CPS
59Co	Passed	14,366.0 CPS	Greater than	1,000.0 CPS
238U	Passed	26,559.0 CPS	Greater than	20,000.0 CPS
140Ce.16O/140Ce	Passed	0.0132	Less than	0.025
137Ba++/137Ba	Passed	0.0171	Less than	0.034
115In	Passed	15,600.0 CPS	Greater than	5,000.0 CPS

Stability

Analyte	Value	Limit
7Li	0.5%	5
59Co	0.7%	5
238U	1.2%	5
140Ce.16O	6.5%	2
140Ce	1.5%	2
115In	1.0%	5

Mass Calibration Test

Result	Channels	Dwell	MeasureWidth	PointSpacing	Sweeps
Passed	75	0.04	1.5	0.02	10

Analyte	Result	Centroid Mass [u]	Offset	Peak width [u]	Peak width min [u]	Peak width max [u]
7Li	Passed	7.0288	0.0128	0.658	0.650	0.850
59Co	Passed	58.9154	0.0178	0.709	0.650	0.850
115In	Passed	114.8722	0.0317	0.739	0.650	0.850
238U	Passed	238.0348	0.0159	0.757	0.650	0.850

Tune Settings

Parameter	Value
Additional Gas Flow 1	41.23
Additional Gas Flow 2	0.00
Additional Gas Flow 3	0.00
Angular Deflection	-384.97
Auxilliary Flow	0.80
CCT Bias	-3.21
CCT Entry Lens	-70.02
CCT Exit Lens	-160.01
CCT Focus Lens	-13.96
CCT1 Flow	0.00
CCT1 Shut-Off Valve	0.00
CCT2 Flow	0.00
CCT2 Shut-Off Valve	0.00
Cool Flow	14.00
D1 Lens	-200.05
D2 Lens	-90.01
Deflection Entry Lens	-35.01
Dry Pump Speed	0.00
Extraction Lens 1 Negative	0.00
Extraction Lens 1 Polarity	0.00
Extraction Lens 1 Positive	0.00
Extraction Lens 2	-111.40
Focus Lens	21.00
Nebulizer Flow	0.25
Peristaltic Pump Speed	17.00
Plasma Power	1550.00
Pole Bias	-0.96
Quad Entry Lens	-20.00
Sampling Depth	5.00
Spray Chamber Temperature	2.70
Torch Horizontal Position	1.13
Torch Vertical Position	-0.74
Virtual CCT Mass Maximum Dac Limit Set	4095.00
Virtual CCT Mass parameter b	0.65
Virtual CCT Mass to Dac Factor	130.00
Virtual CCT Mass to Dac Offset	0.01

Vacuum Check

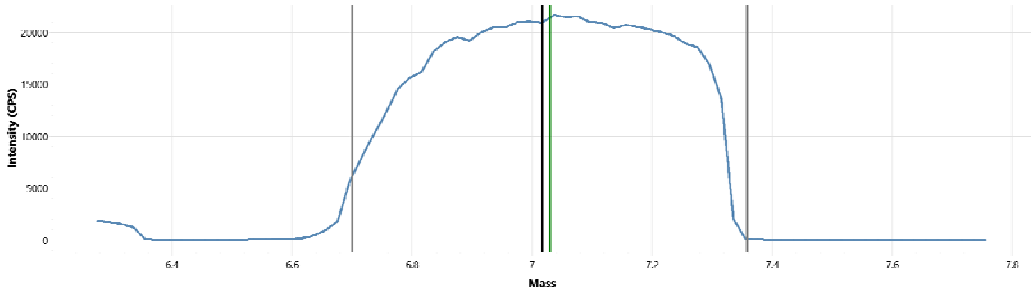
Parameter	Result	Value
Analyzer Pressure	Vacuum ok	3.368e-7
Interface Pressure		2.118e+0

Detector Voltages

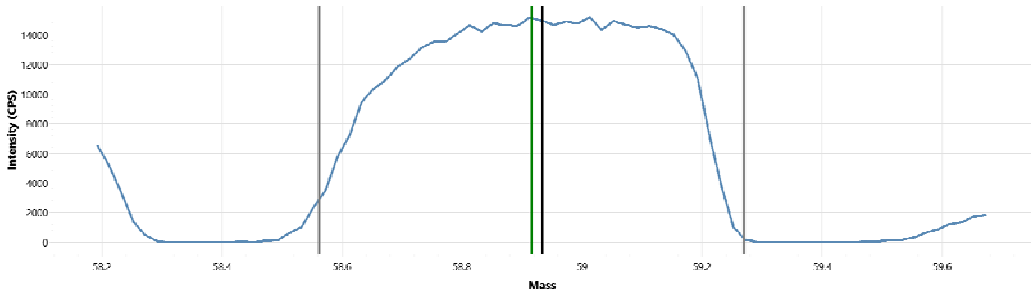
Analog	Counting
-1962.50	1537.50

Mass Calibration Peaks

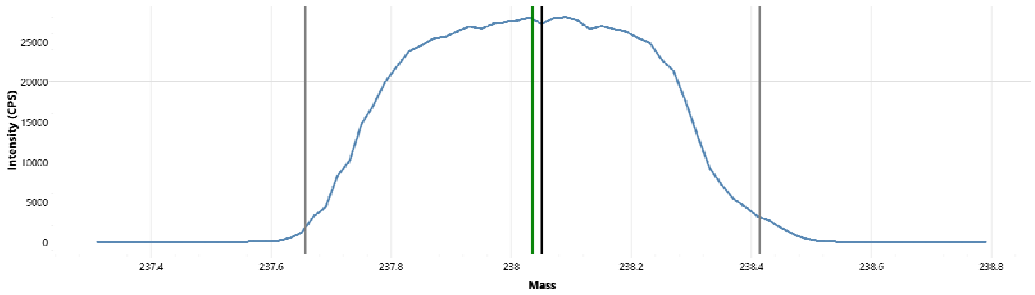
Analyte: 7Li



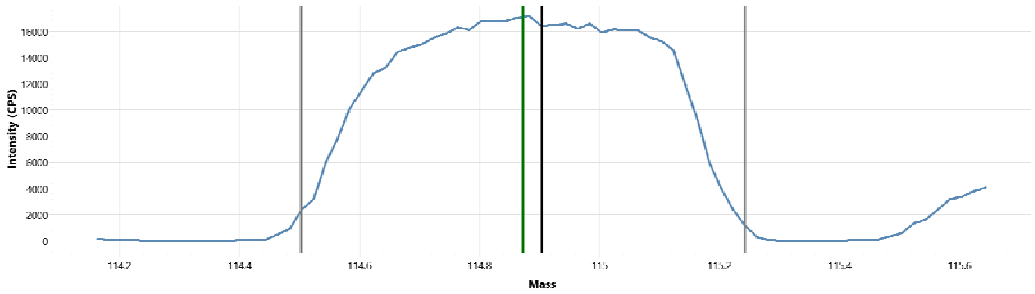
Analyte: 59Co



Analyte: 238U

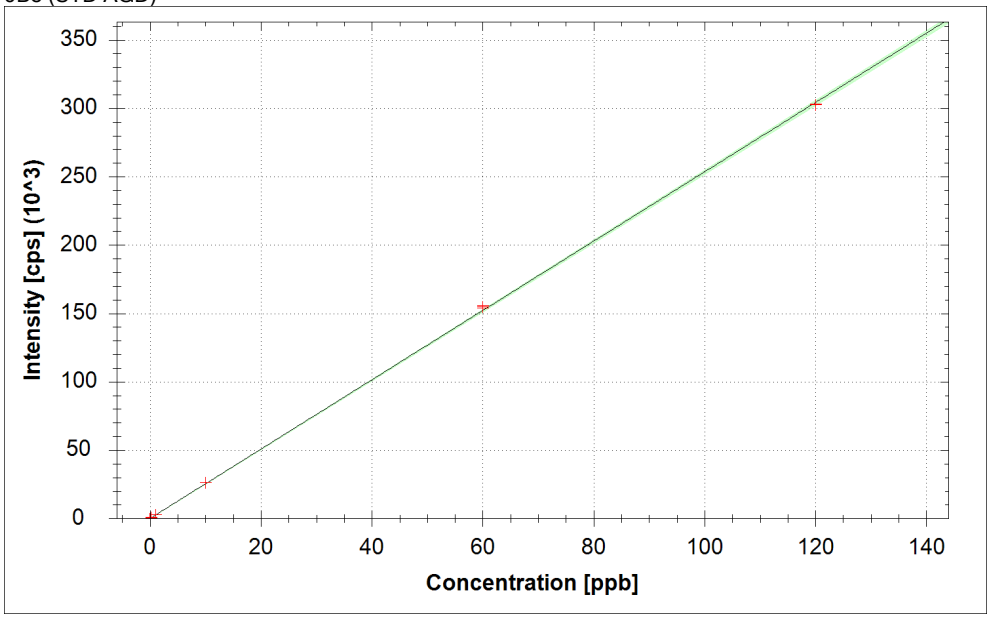


Analyte: 115In



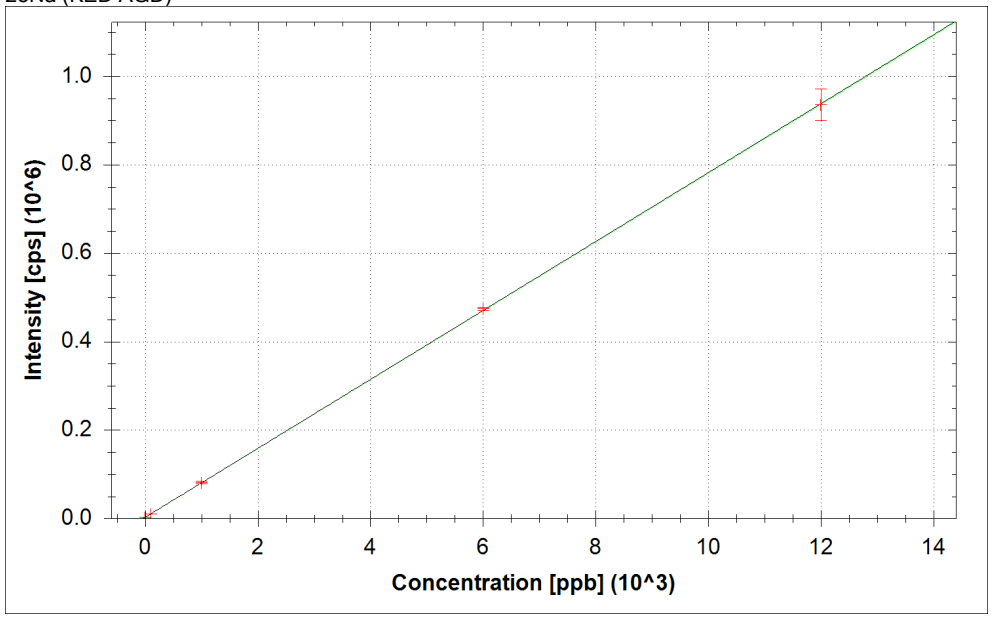
Calibration Curves:

9Be (STD AGD)



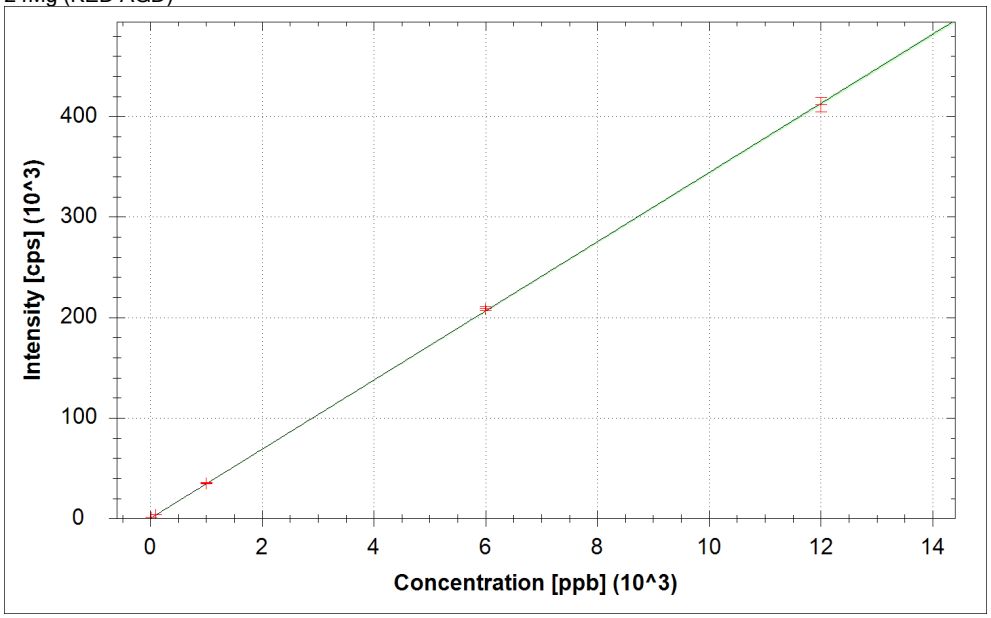
f(x) = 2534.3966*x + 32.3840
R² = 0.9999
BEC = 0.013 ppb
LoD = 0.0069 ppb

23Na (KED AGD)



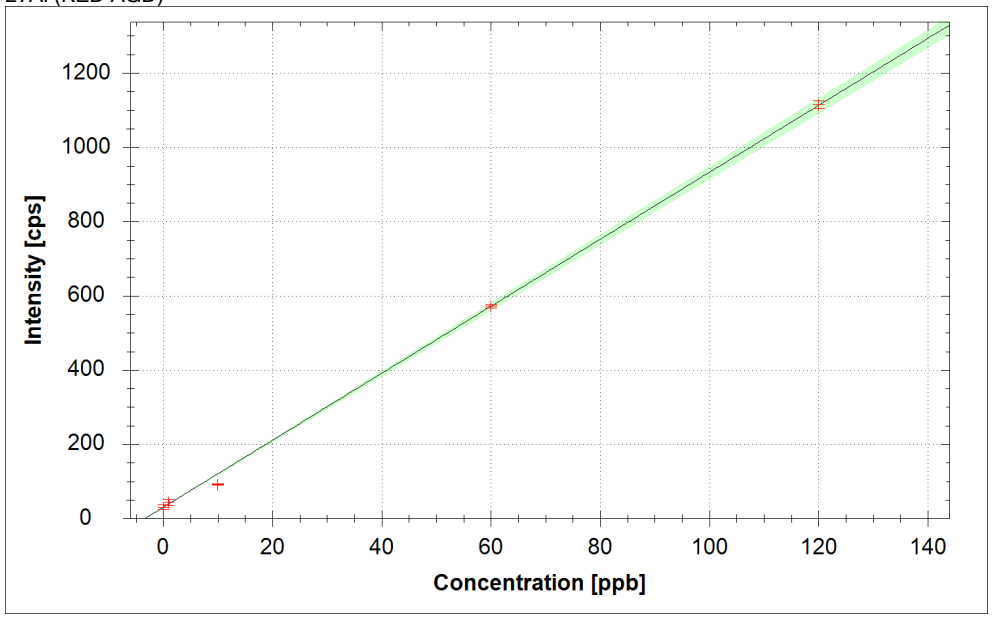
f(x) = 77.9164*x + 2623.3431
R² = 1.0000
BEC = 33.669 ppb
LoD = 6.3991 ppb

24Mg (KED AGD)



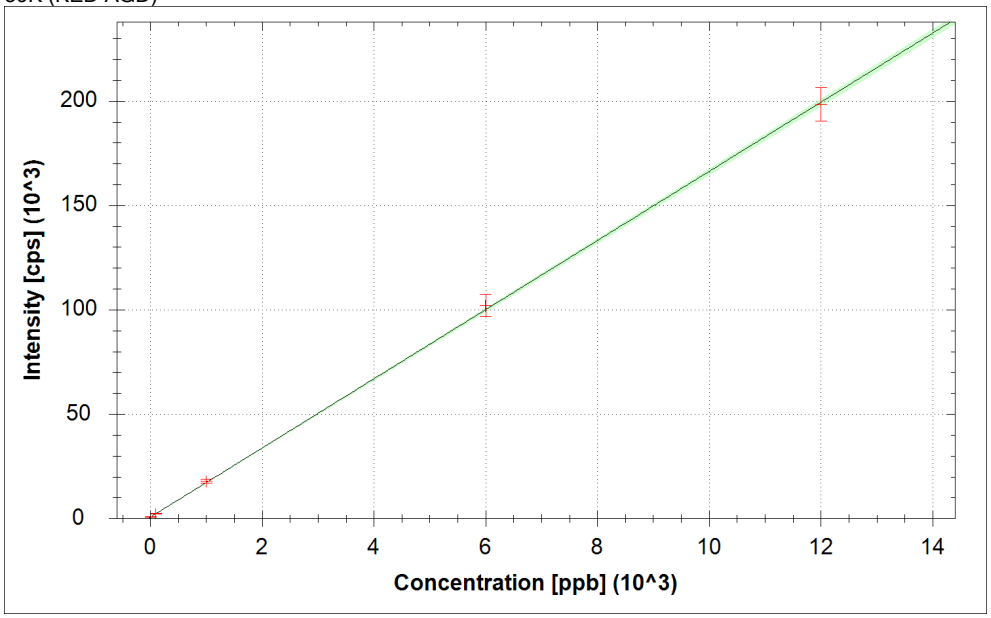
f(x) = 34.4000*x + 20.1159
R² = 1.0000
BEC = 0.585 ppb
LoD = 0.5944 ppb

27Al (KED AGD)



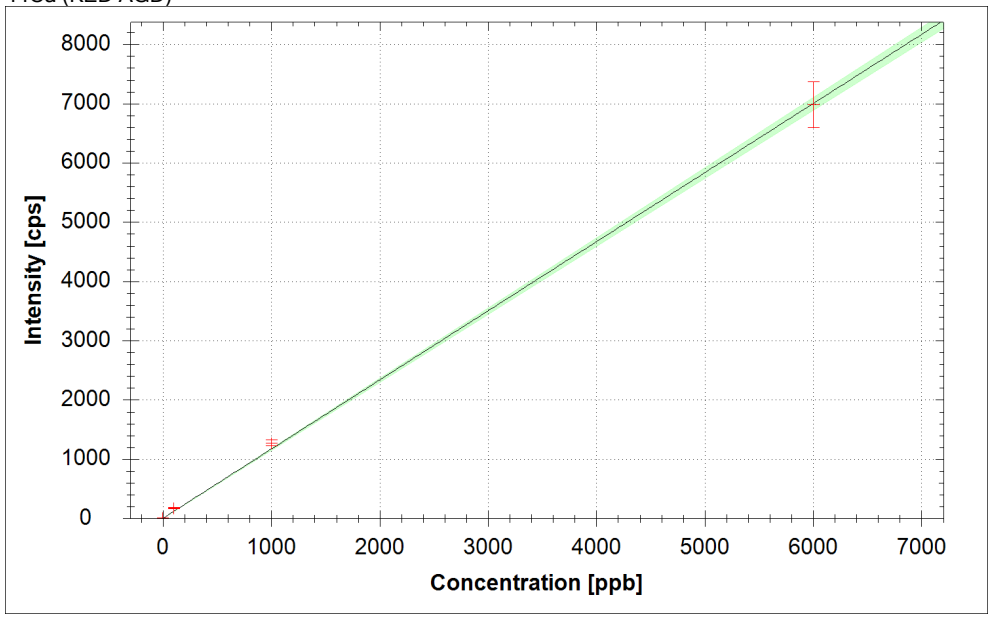
f(x) = 9.0202*x + 30.1367
R² = 0.9990
BEC = 3.341 ppb
LoD = 2.1065 ppb

39K (KED AGD)



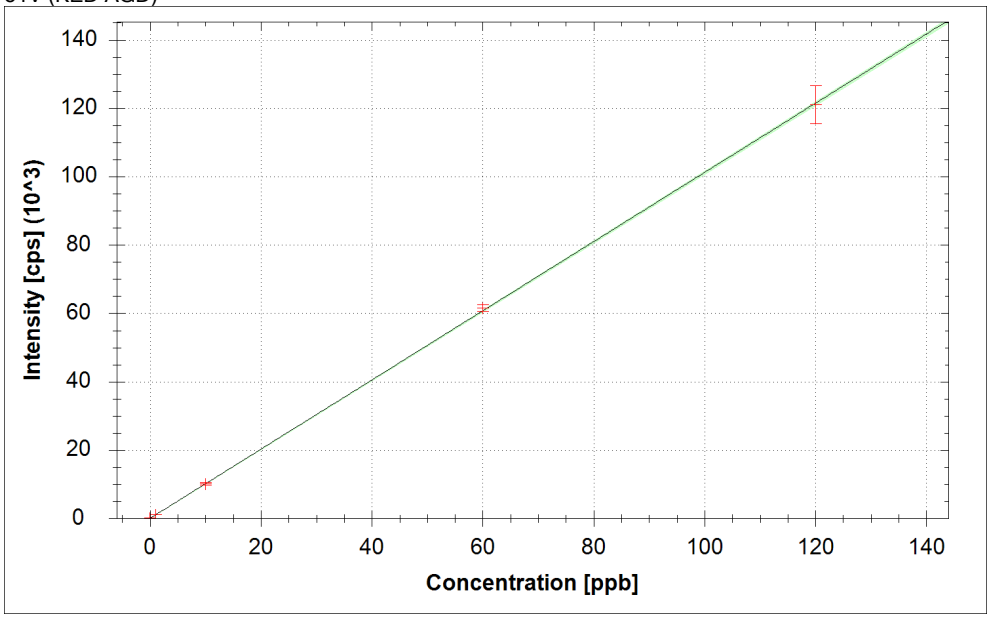
f(x) = 16.5589*x + 622.1787
R² = 0.9998
BEC = 37.574 ppb
LoD = 16.4782 ppb

44Ca (KED AGD)



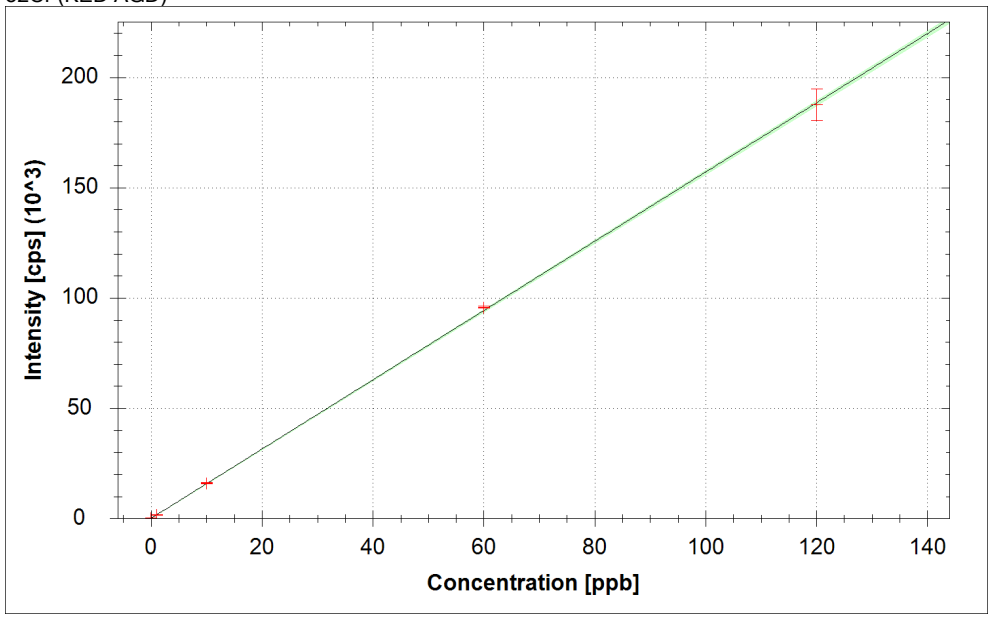
f(x) = 1.1658*x + 4.9846
R² = 0.9996
BEC = 4.276 ppb
LoD = 5.1518 ppb

51V (KED AGD)



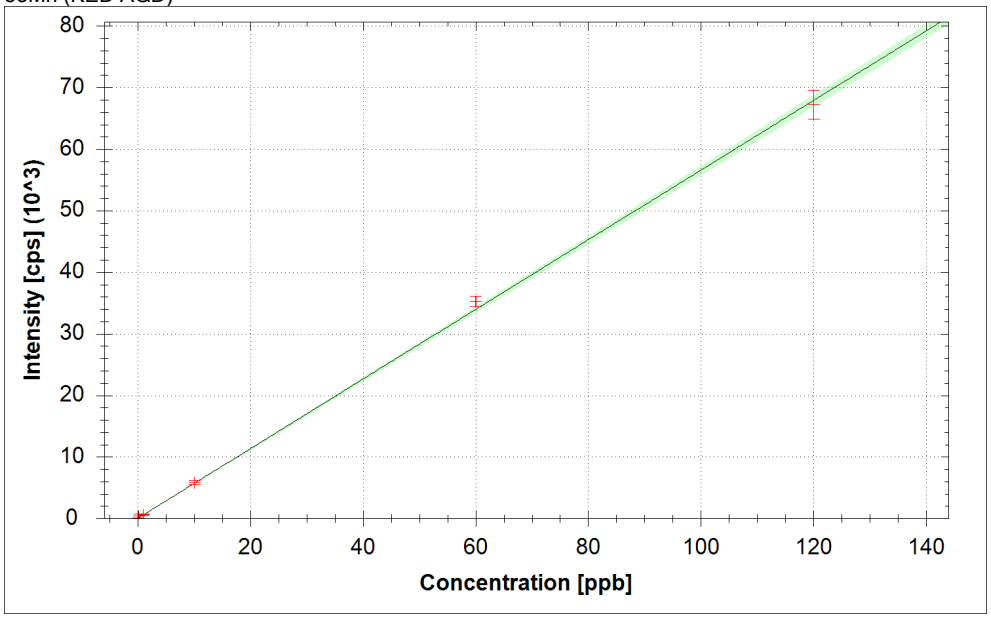
f(x) = 1011.6121*x + 43.1284
R² = 0.9999
BEC = 0.043 ppb
LoD = 0.0632 ppb

52Cr (KED AGD)



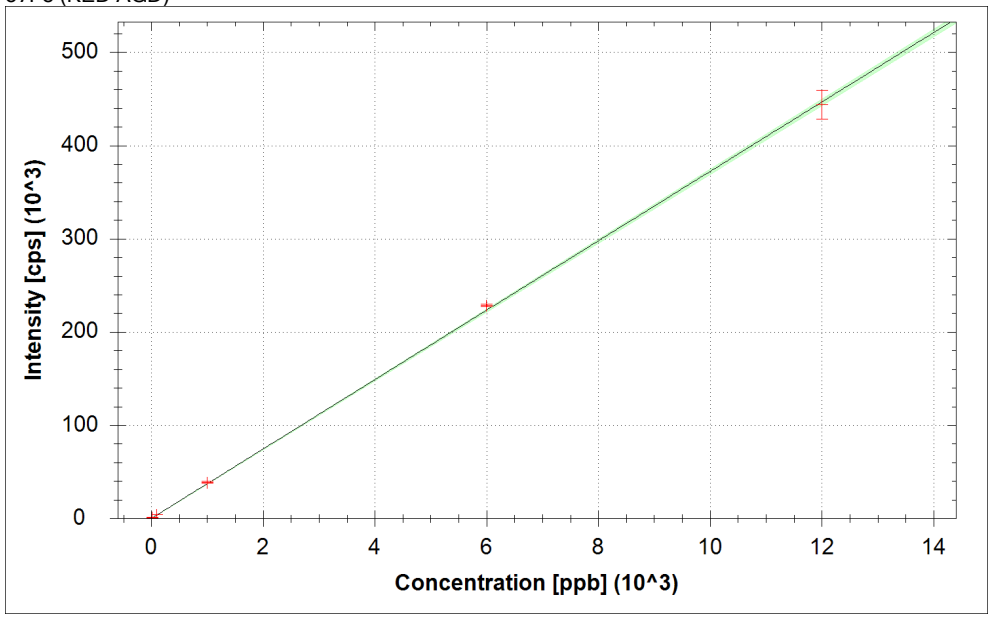
f(x) = 1569.5987*x + 64.8494
R² = 0.9999
BEC = 0.041 ppb
LoD = 0.0561 ppb

55Mn (KED AGD)



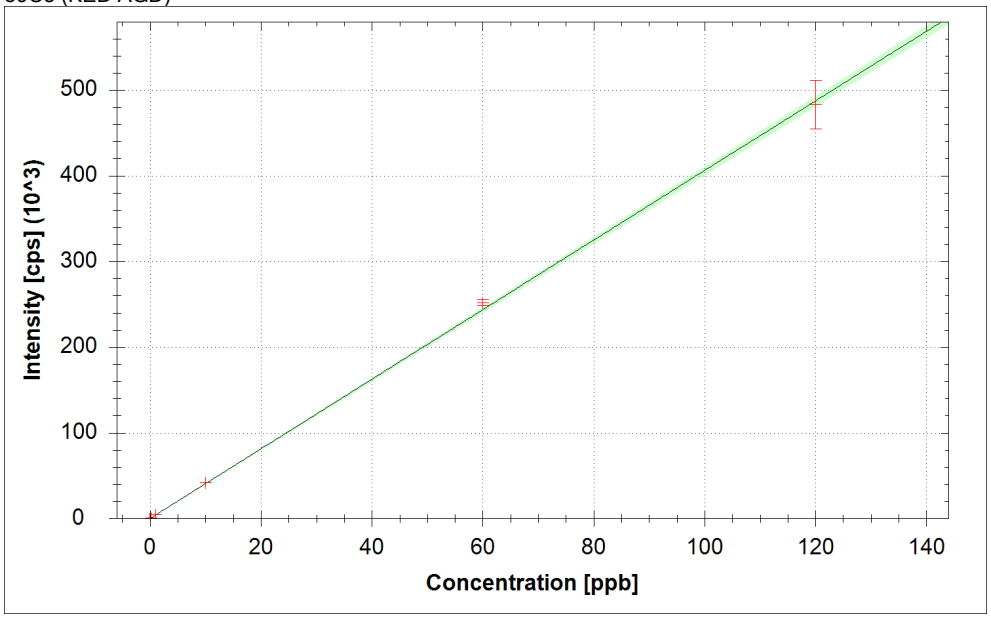
f(x) = 565.4068*x + 27.0604
R² = 0.9994
BEC = 0.048 ppb
LoD = 0.0464 ppb

57Fe (KED AGD)



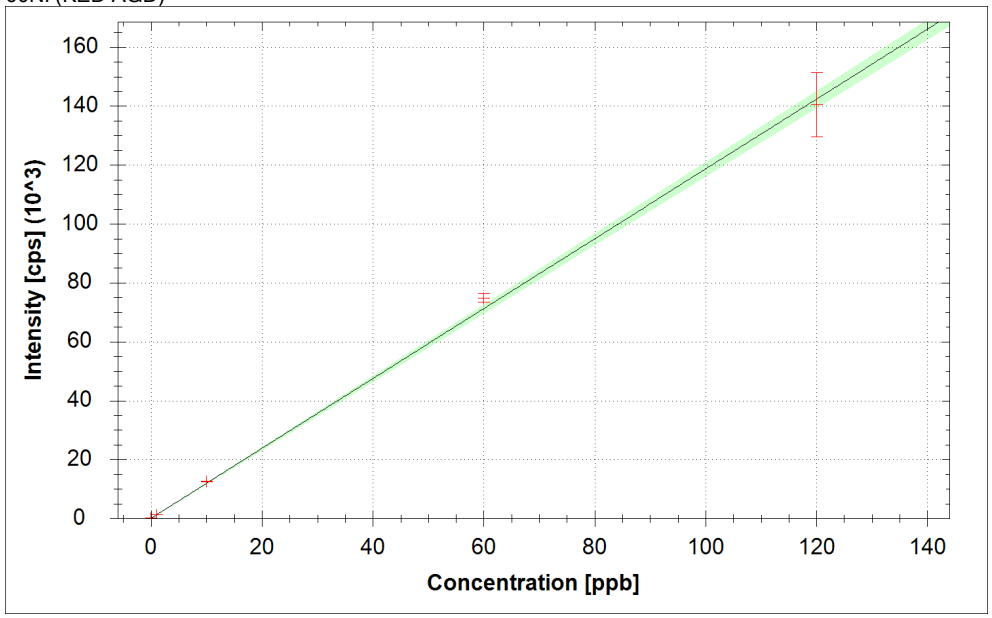
f(x) = 37.2066*x + 17.3727
R² = 0.9998
BEC = 0.467 ppb
LoD = 0.7603 ppb

59Co (KED AGD)



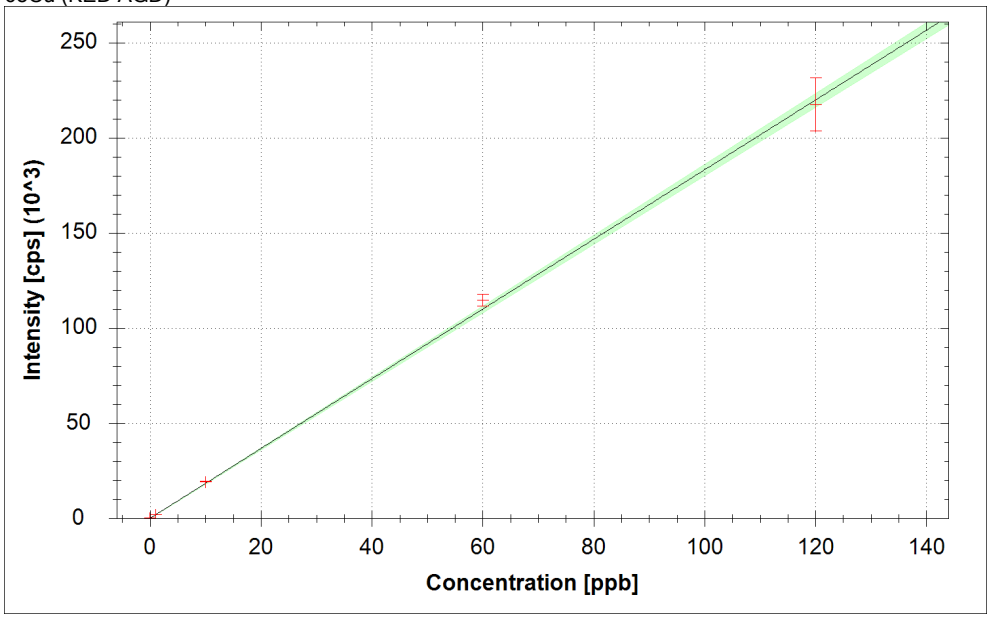
f(x) = 4059.4885*x + 8.7777
R² = 0.9995
BEC = 0.002 ppb
LoD = 0.0024 ppb

60Ni (KED AGD)



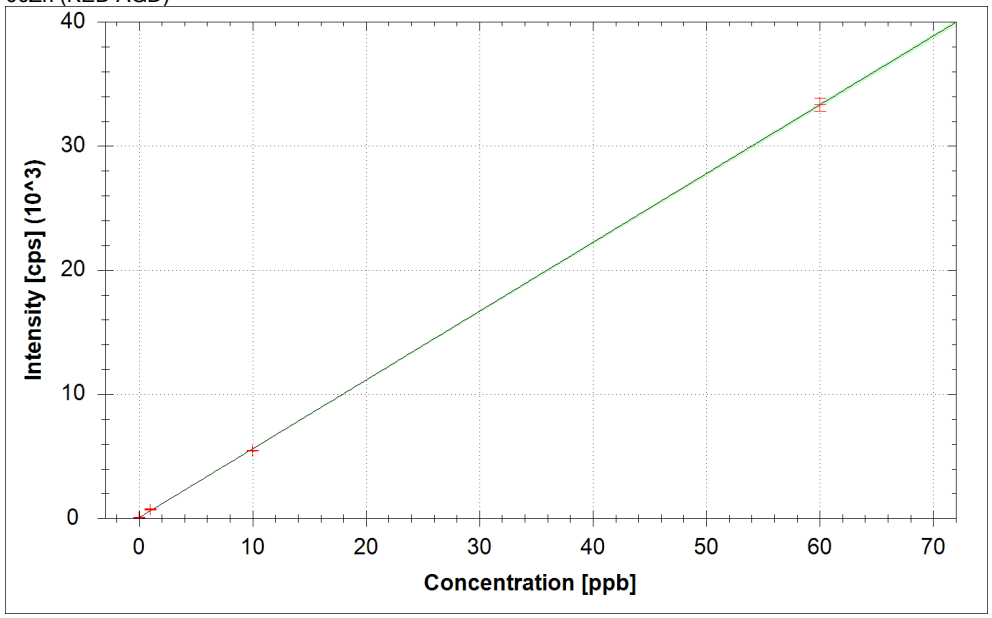
f(x) = 1185.4388*x + 80.0185
R² = 0.9989
BEC = 0.068 ppb
LoD = 0.0041 ppb

65Cu (KED AGD)



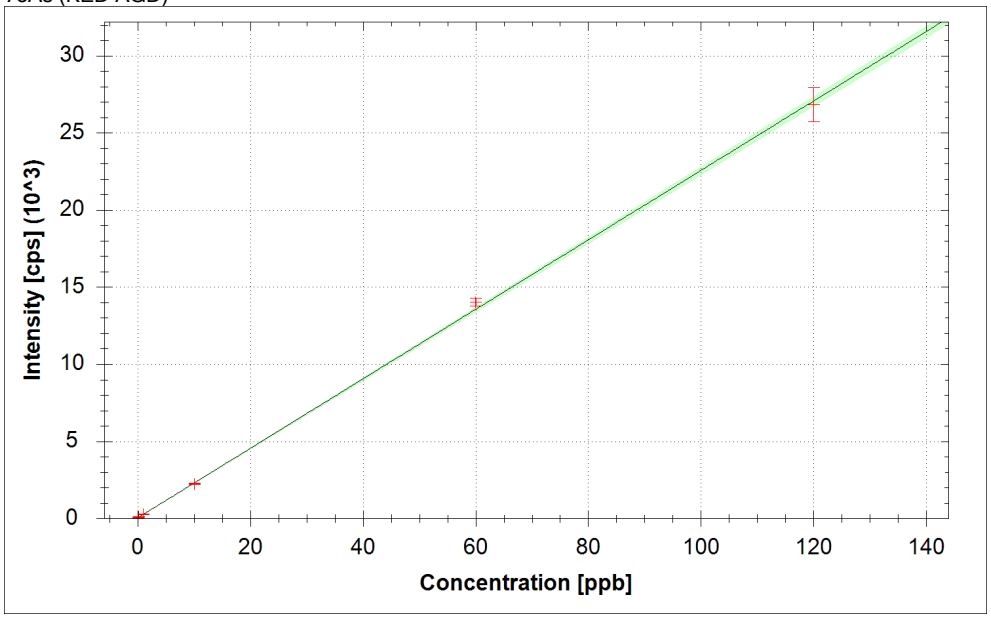
f(x) = 1831.0755*x + 102.9810
R² = 0.9992
BEC = 0.056 ppb
LoD = 0.0216 ppb

66Zn (KED AGD)



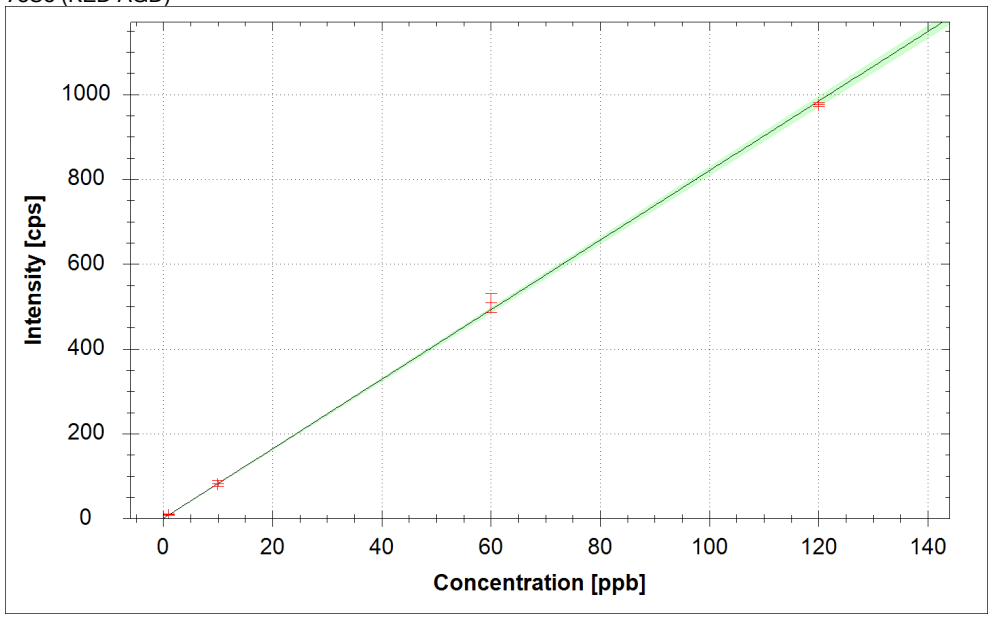
f(x) = 554.1417*x + 64.7143
R² = 1.0000
BEC = 0.117 ppb
LoD = 0.0264 ppb

75As (KED AGD)



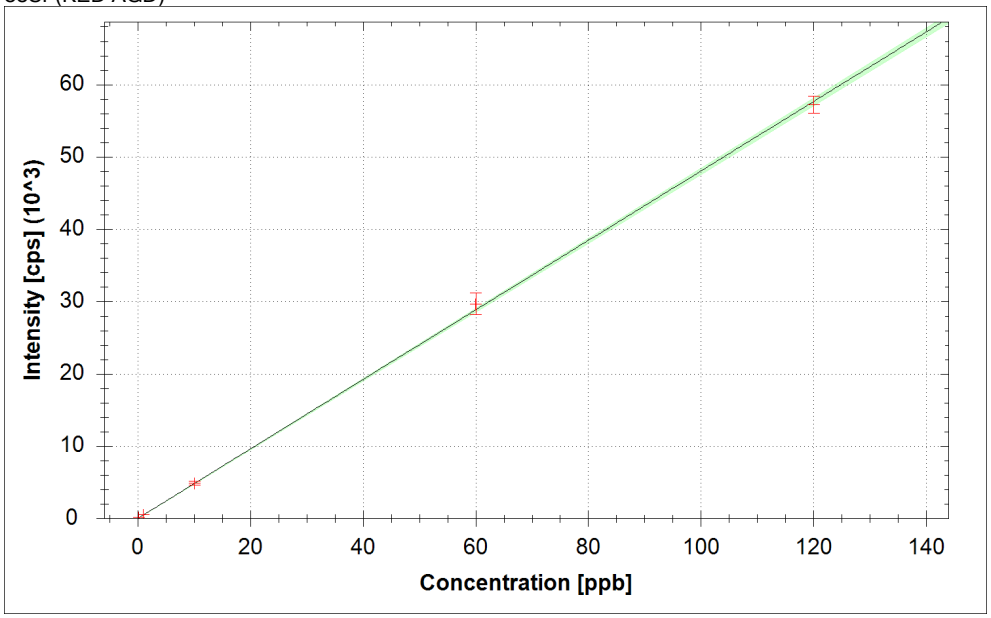
f(x) = 225.0322*x + 48.6640
R² = 0.9996
BEC = 0.216 ppb
LoD = 0.1623 ppb

78Se (KED AGD)



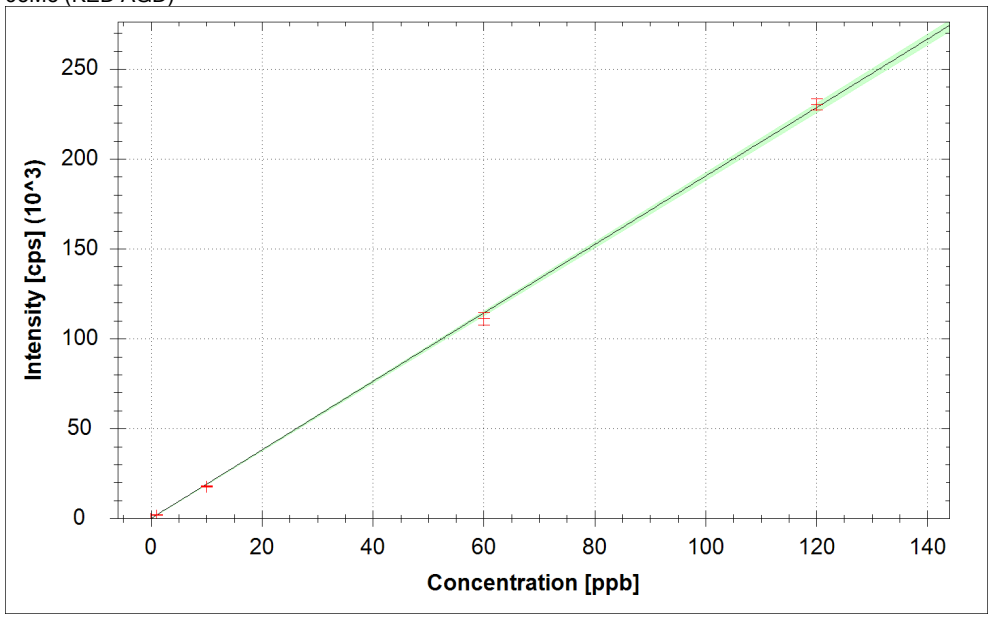
f(x) = 8.1984*x + 0.0214
R² = 0.9996
BEC = 0.003 ppb
LoD = 0.0749 ppb

88Sr (KED AGD)



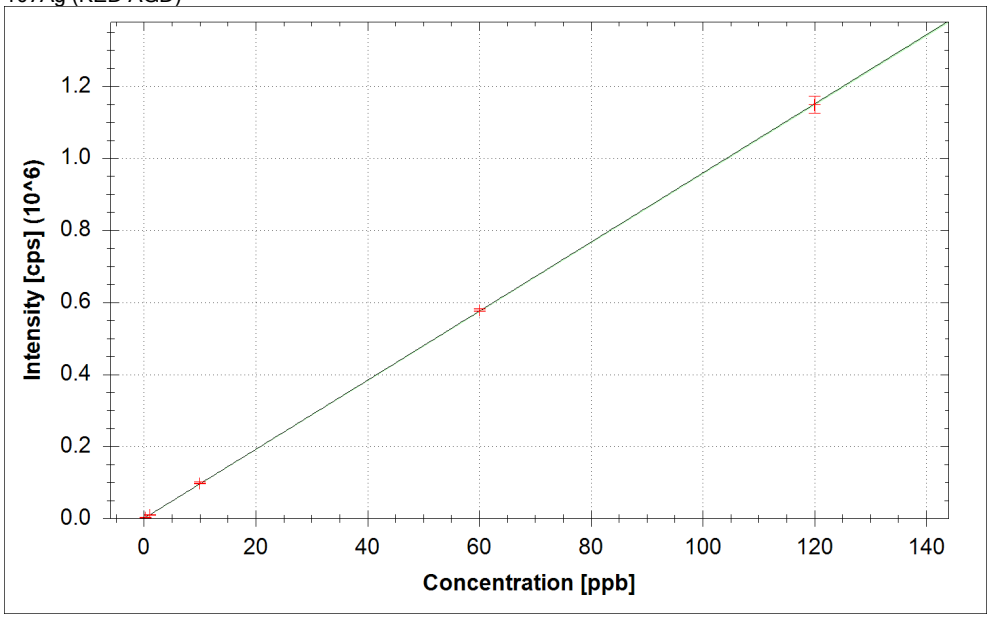
f(x) = 480.1879*x + 14.0186
R² = 0.9997
BEC = 0.029 ppb
LoD = 0.0086 ppb

95Mo (KED AGD)



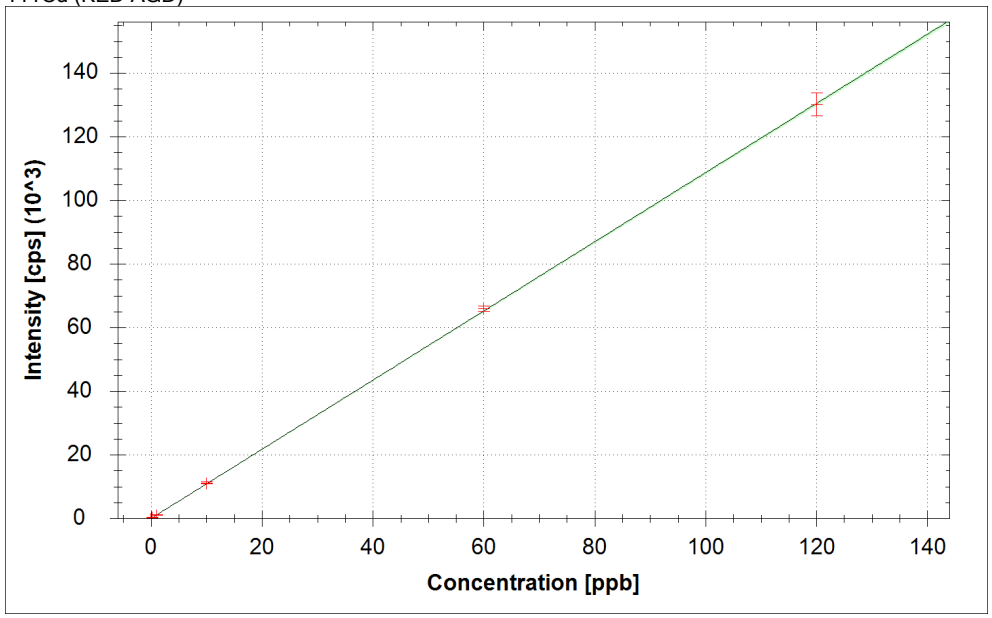
f(x) = 1903.9107*x + 23.6958
R² = 0.9996
BEC = 0.012 ppb
LoD = 0.0241 ppb

107Ag (KED AGD)



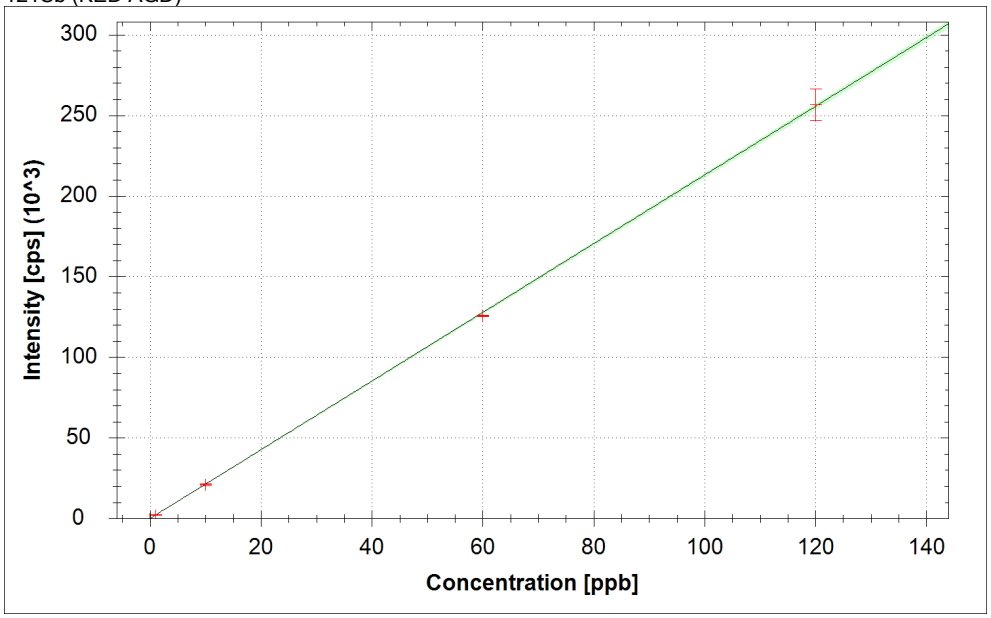
f(x) = 9586.0706*x + 30.1464
R² = 1.0000
BEC = 0.003 ppb
LoD = 0.0038 ppb

111Cd (KED AGD)



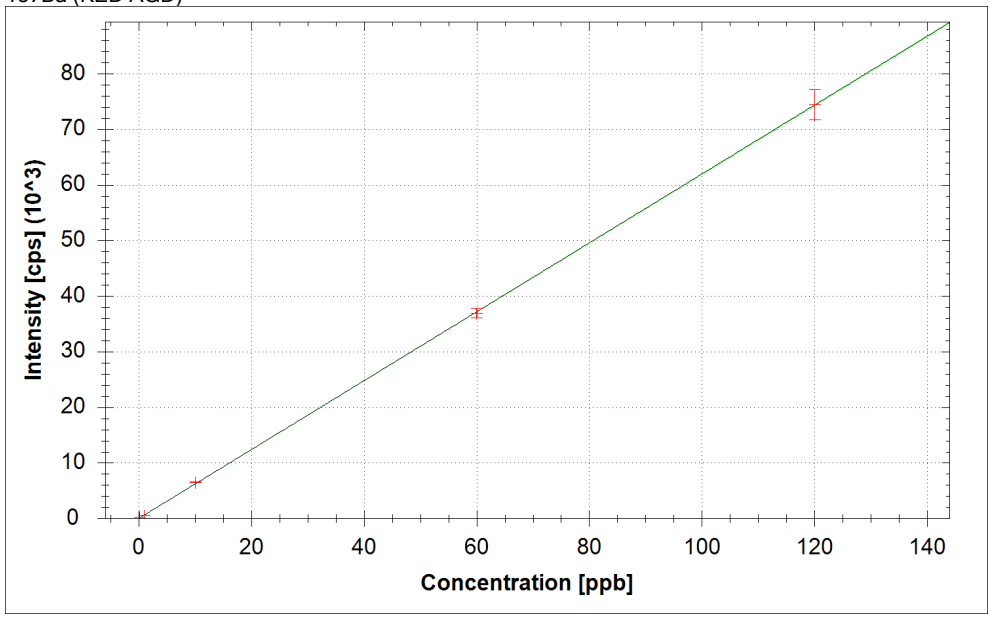
f(x) = 1086.6379*x + 0.4150
R² = 1.0000
BEC = 0.000 ppb
LoD = 0.0020 ppb

121Sb (KED AGD)



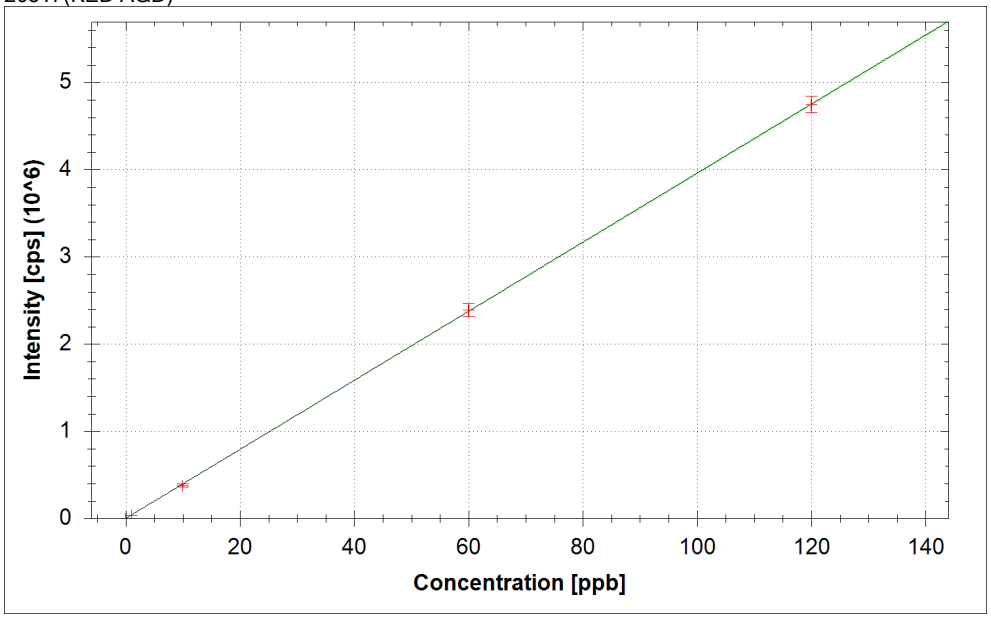
f(x) = 2129.3807*x + 25.1662
R² = 0.9999
BEC = 0.012 ppb
LoD = 0.0056 ppb

137Ba (KED AGD)



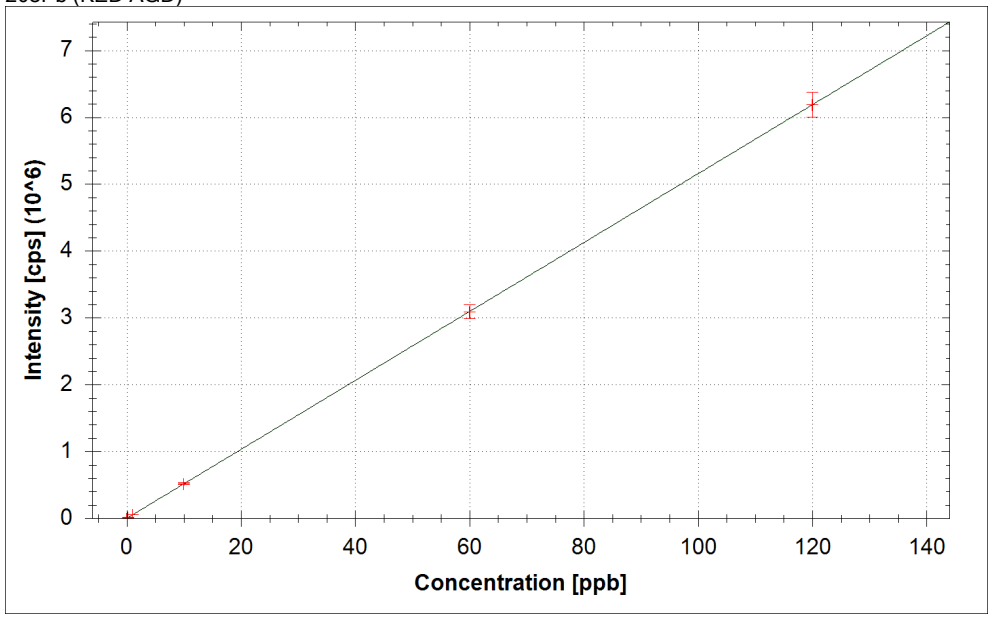
f(x) = 619.3282*x + 10.0406
R² = 1.0000
BEC = 0.016 ppb
LoD = 0.0038 ppb

205Tl (KED AGD)



f(x) = 39591.4527*x + 253.4424
R² = 1.0000
BEC = 0.006 ppb
LoD = 0.0047 ppb

208Pb (KED AGD)



f(x) = 51547.6050*x + 1270.2924
R² = 1.0000
BEC = 0.025 ppb
LoD = 0.0097 ppb

Standards:

Analysis Index: 4
Analysis Name: 0.2/20 Cal
Analysis Type: STD
Analysis Started at: 3/4/2024 5:20:51 AM
Total Dilution Factor 1
Rack 0
Vial 2

Category	Concentration average	Concentration RSD	Standard Concentration	Standard Relative Difference
6Li (STD AGD)	97.738 %	0.3 %		0.000 %
6Li (KED AGD)	100.923 %	7.9 %		0.000 %
9Be (STD AGD)	0.218 ppb	3.2 %	0.200 ppb	8.844 %
23Na (KED AGD)	N/A	N/A	N/A	N/A
24Mg (KED AGD)	24.900 ppb	3.0 %	20.000 ppb	24.498 %
27Al (KED AGD)	N/A	N/A	N/A	N/A
39K (KED AGD)	N/A	N/A	N/A	N/A
44Ca (KED AGD)	N/A	N/A	N/A	N/A
45Sc (STD AGD)	101.275 %	0.8 %		0.000 %
51V (KED AGD)	N/A	N/A	N/A	N/A
52Cr (KED AGD)	N/A	N/A	N/A	N/A
55Mn (KED AGD)	0.624 ppb	101.9 %	0.200 ppb	211.847 %
57Fe (KED AGD)	22.963 ppb	11.6 %	20.000 ppb	14.815 %
59Co (KED AGD)	0.202 ppb	11.1 %	0.200 ppb	0.854 %
60Ni (KED AGD)	N/A	N/A	N/A	N/A
65Cu (KED AGD)	N/A	N/A	N/A	N/A
66Zn (KED AGD)	N/A	N/A	N/A	N/A
74Ge (KED AGD)	102.846 %	7.2 %		0.000 %
75As (KED AGD)	0.215 ppb	16.4 %	0.200 ppb	7.732 %
78Se (KED AGD)	N/A	N/A	N/A	N/A
88Sr (KED AGD)	0.269 ppb	2.7 %	0.200 ppb	34.334 %
95Mo (KED AGD)	N/A	N/A	N/A	N/A
103Rh (KED AGD)	99.907 %	6.5 %		0.000 %
107Ag (KED AGD)	0.241 ppb	10.6 %	0.200 ppb	20.293 %
111Cd (KED AGD)	0.250 ppb	10.8 %	0.200 ppb	25.045 %
115In (KED AGD)	104.373 %	10.1 %		0.000 %
121Sb (KED AGD)	N/A	N/A	N/A	N/A
137Ba (KED AGD)	0.240 ppb	6.0 %	0.200 ppb	20.070 %
159Tb (KED AGD)	101.793 %	7.2 %		0.000 %
175Lu (KED AGD)	102.232 %	7.9 %		0.000 %
205Tl (KED AGD)	N/A	N/A	N/A	N/A
208Pb (KED AGD)	0.222 ppb	11.8 %	0.200 ppb	10.972 %

Standards:

Analysis Index: 5
Analysis Name: 1/100 Cal
Analysis Type: STD
Analysis Started at: 3/4/2024 5:25:28 AM
Total Dilution Factor 10000
Rack 0
Vial 3

Category	Concentration average	Concentration RSD	Standard Concentration	Standard Relative Difference
6Li (STD AGD)	97.241 %	1.0 %		0.000 %
6Li (KED AGD)	103.430 %	4.4 %		0.000 %
9Be (STD AGD)	0.998 ppb	1.7 %	1.000 ppb	0.225 %
23Na (KED AGD)	96.287 ppb	3.8 %	100.000 ppb	3.713 %
24Mg (KED AGD)	106.788 ppb	4.6 %	100.000 ppb	6.788 %
27Al (KED AGD)	1.444 ppb	63.1 %	1.000 ppb	44.437 %
39K (KED AGD)	97.695 ppb	7.2 %	100.000 ppb	2.305 %
44Ca (KED AGD)	144.122 ppb	6.1 %	100.000 ppb	44.122 %
45Sc (STD AGD)	109.086 %	0.6 %		0.000 %
51V (KED AGD)	1.031 ppb	0.3 %	1.000 ppb	3.120 %
52Cr (KED AGD)	1.021 ppb	8.3 %	1.000 ppb	2.111 %
55Mn (KED AGD)	0.984 ppb	14.7 %	1.000 ppb	1.579 %
57Fe (KED AGD)	102.340 ppb	1.7 %	100.000 ppb	2.340 %
59Co (KED AGD)	1.058 ppb	1.5 %	1.000 ppb	5.761 %
60Ni (KED AGD)	0.980 ppb	4.8 %	1.000 ppb	2.015 %
65Cu (KED AGD)	1.047 ppb	2.1 %	1.000 ppb	4.717 %
66Zn (KED AGD)	1.156 ppb	8.2 %	1.000 ppb	15.593 %
74Ge (KED AGD)	102.947 %	4.1 %		0.000 %
75As (KED AGD)	0.991 ppb	4.5 %	1.000 ppb	0.924 %
78Se (KED AGD)	1.098 ppb	14.5 %	1.000 ppb	9.767 %
88Sr (KED AGD)	1.005 ppb	2.4 %	1.000 ppb	0.517 %
95Mo (KED AGD)	0.973 ppb	4.7 %	1.000 ppb	2.699 %
103Rh (KED AGD)	106.487 %	2.3 %		0.000 %
107Ag (KED AGD)	0.996 ppb	2.7 %	1.000 ppb	0.367 %
111Cd (KED AGD)	0.968 ppb	8.1 %	1.000 ppb	3.249 %
115In (KED AGD)	111.918 %	4.1 %		0.000 %
121Sb (KED AGD)	0.976 ppb	3.4 %	1.000 ppb	2.432 %
137Ba (KED AGD)	0.923 ppb	2.7 %	1.000 ppb	7.679 %
159Tb (KED AGD)	109.757 %	3.0 %		0.000 %
175Lu (KED AGD)	109.165 %	3.7 %		0.000 %
205Tl (KED AGD)	0.929 ppb	0.6 %	1.000 ppb	7.060 %
208Pb (KED AGD)	1.004 ppb	3.3 %	1.000 ppb	0.415 %

Standards:

Analysis Index: 6
Analysis Name: 10/1000 Cal
Analysis Type: STD
Analysis Started at: 3/4/2024 5:30:06 AM
Total Dilution Factor 1000
Rack 0
Vial 4

Category	Concentration average	Concentration RSD	Standard Concentration	Standard Relative Difference
6Li (STD AGD)	95.712 %	1.3 %		0.000 %
6Li (KED AGD)	101.121 %	1.1 %		0.000 %
9Be (STD AGD)	10.373 ppb	0.6 %	10.000 ppb	3.725 %
23Na (KED AGD)	1,008.073 ppb	4.5 %	1,000.000 ppb	0.807 %
24Mg (KED AGD)	1,014.596 ppb	1.8 %	1,000.000 ppb	1.460 %
27Al (KED AGD)	6.783 ppb	4.1 %	10.000 ppb	32.169 %
39K (KED AGD)	1,033.549 ppb	5.1 %	1,000.000 ppb	3.355 %
44Ca (KED AGD)	1,088.907 ppb	4.0 %	1,000.000 ppb	8.891 %
45Sc (STD AGD)	118.641 %	0.3 %		0.000 %
51V (KED AGD)	9.961 ppb	3.5 %	10.000 ppb	0.393 %
52Cr (KED AGD)	10.154 ppb	2.0 %	10.000 ppb	1.539 %
55Mn (KED AGD)	10.240 ppb	6.2 %	10.000 ppb	2.403 %
57Fe (KED AGD)	1,038.922 ppb	3.0 %	1,000.000 ppb	3.892 %
59Co (KED AGD)	10.290 ppb	0.7 %	10.000 ppb	2.898 %
60Ni (KED AGD)	10.511 ppb	0.8 %	10.000 ppb	5.111 %
65Cu (KED AGD)	10.497 ppb	0.8 %	10.000 ppb	4.965 %
66Zn (KED AGD)	9.734 ppb	0.7 %	10.000 ppb	2.662 %
74Ge (KED AGD)	105.448 %	1.8 %		0.000 %
75As (KED AGD)	9.797 ppb	2.3 %	10.000 ppb	2.028 %
78Se (KED AGD)	10.007 ppb	8.6 %	10.000 ppb	0.067 %
88Sr (KED AGD)	10.137 ppb	4.9 %	10.000 ppb	1.371 %
95Mo (KED AGD)	9.336 ppb	2.1 %	10.000 ppb	6.635 %
103Rh (KED AGD)	106.321 %	1.2 %		0.000 %
107Ag (KED AGD)	10.239 ppb	2.5 %	10.000 ppb	2.386 %
111Cd (KED AGD)	10.239 ppb	2.9 %	10.000 ppb	2.386 %
115In (KED AGD)	112.373 %	2.8 %		0.000 %
121Sb (KED AGD)	9.787 ppb	2.3 %	10.000 ppb	2.132 %
137Ba (KED AGD)	10.453 ppb	0.7 %	10.000 ppb	4.530 %
159Tb (KED AGD)	110.952 %	3.2 %		0.000 %
175Lu (KED AGD)	110.751 %	3.3 %		0.000 %
205Tl (KED AGD)	9.530 ppb	4.2 %	10.000 ppb	4.704 %
208Pb (KED AGD)	10.048 ppb	2.6 %	10.000 ppb	0.484 %

Alpha ICPMSQ Data with SRD

3/5/2024 5:01:37 AM

Standards:

Analysis Index: 7
Analysis Name: 60/6000 Cal
Analysis Type: STD
Analysis Started at: 3/4/2024 5:34:44 AM
Total Dilution Factor 166.6666666
Rack 0
Vial 5

Category	Concentration average	Concentration RSD	Standard Concentration	Standard Relative Difference
6Li (STD AGD)	90.182 %	1.3 %		0.000 %
6Li (KED AGD)	98.549 %	2.3 %		0.000 %
9Be (STD AGD)	61.125 ppb	0.7 %	60.000 ppb	1.875 %
23Na (KED AGD)	6,043.814 ppb	0.9 %	6,000.000 ppb	0.730 %
24Mg (KED AGD)	6,062.963 ppb	1.0 %	6,000.000 ppb	1.049 %
27Al (KED AGD)	60.038 ppb	0.8 %	60.000 ppb	0.063 %
39K (KED AGD)	6,126.915 ppb	5.2 %	6,000.000 ppb	2.115 %
44Ca (KED AGD)	5,984.447 ppb	5.6 %	6,000.000 ppb	0.259 %
45Sc (STD AGD)	126.552 %	1.2 %		0.000 %
51V (KED AGD)	60.784 ppb	1.7 %	60.000 ppb	1.307 %
52Cr (KED AGD)	60.986 ppb	0.6 %	60.000 ppb	1.644 %
55Mn (KED AGD)	62.270 ppb	2.5 %	60.000 ppb	3.784 %
57Fe (KED AGD)	6,139.912 ppb	0.7 %	6,000.000 ppb	2.332 %
59Co (KED AGD)	62.065 ppb	1.3 %	60.000 ppb	3.441 %
60Ni (KED AGD)	63.045 ppb	2.0 %	60.000 ppb	5.076 %
65Cu (KED AGD)	62.555 ppb	2.8 %	60.000 ppb	4.258 %
66Zn (KED AGD)	60.042 ppb	1.5 %	60.000 ppb	0.070 %
74Ge (KED AGD)	95.613 %	2.4 %		0.000 %
75As (KED AGD)	62.072 ppb	1.8 %	60.000 ppb	3.453 %
78Se (KED AGD)	61.957 ppb	4.5 %	60.000 ppb	3.261 %
88Sr (KED AGD)	61.703 ppb	5.0 %	60.000 ppb	2.839 %
95Mo (KED AGD)	58.333 ppb	3.2 %	60.000 ppb	2.779 %
103Rh (KED AGD)	101.204 %	1.6 %		0.000 %
107Ag (KED AGD)	60.314 ppb	0.7 %	60.000 ppb	0.523 %
111Cd (KED AGD)	60.608 ppb	1.2 %	60.000 ppb	1.013 %
115In (KED AGD)	106.458 %	5.4 %		0.000 %
121Sb (KED AGD)	59.029 ppb	0.4 %	60.000 ppb	1.619 %
137Ba (KED AGD)	59.582 ppb	2.3 %	60.000 ppb	0.697 %
159Tb (KED AGD)	108.145 %	2.8 %		0.000 %
175Lu (KED AGD)	108.628 %	5.2 %		0.000 %
205Tl (KED AGD)	60.369 ppb	3.2 %	60.000 ppb	0.615 %
208Pb (KED AGD)	59.946 ppb	3.3 %	60.000 ppb	0.090 %

Alpha ICPMSQ Data with SRD

3/5/2024 5:01:37 AM

Standards:

Analysis Index: 8
Analysis Name: 120/12000 Cal
Analysis Type: STD
Analysis Started at: 3/4/2024 5:39:22 AM
Total Dilution Factor 83.33333333
Rack 0
Vial 6

Category	Concentration average	Concentration RSD	Standard Concentration	Standard Relative Difference
6Li (STD AGD)	88.449 %	1.6 %		0.000 %
6Li (KED AGD)	93.536 %	6.7 %		0.000 %
9Be (STD AGD)	119.406 ppb	0.1 %	120.000 ppb	0.495 %
23Na (KED AGD)	11,977.451 ppb	3.9 %	12,000.000 ppb	0.188 %
24Mg (KED AGD)	11,967.237 ppb	1.7 %	12,000.000 ppb	0.273 %
27Al (KED AGD)	120.246 ppb	1.0 %	120.000 ppb	0.205 %
39K (KED AGD)	11,933.766 ppb	4.1 %	12,000.000 ppb	0.552 %
44Ca (KED AGD)	11,636.109 ppb	5.5 %	12,000.000 ppb	3.032 %
45Sc (STD AGD)	128.536 %	1.1 %		0.000 %
51V (KED AGD)	119.611 ppb	4.6 %	120.000 ppb	0.324 %
52Cr (KED AGD)	119.494 ppb	3.8 %	120.000 ppb	0.422 %
55Mn (KED AGD)	118.844 ppb	3.5 %	120.000 ppb	0.963 %
57Fe (KED AGD)	11,926.776 ppb	3.5 %	12,000.000 ppb	0.610 %
59Co (KED AGD)	118.943 ppb	5.9 %	120.000 ppb	0.881 %
60Ni (KED AGD)	118.435 ppb	7.8 %	120.000 ppb	1.304 %
65Cu (KED AGD)	118.681 ppb	6.4 %	120.000 ppb	1.099 %
66Zn (KED AGD)	113.547 ppb	5.9 %	120.000 ppb	5.377 %
74Ge (KED AGD)	95.907 %	6.8 %		0.000 %
75As (KED AGD)	118.981 ppb	4.1 %	120.000 ppb	0.849 %
78Se (KED AGD)	119.020 ppb	0.5 %	120.000 ppb	0.816 %
88Sr (KED AGD)	119.137 ppb	2.1 %	120.000 ppb	0.719 %
95Mo (KED AGD)	120.889 ppb	1.3 %	120.000 ppb	0.741 %
103Rh (KED AGD)	96.746 %	2.6 %		0.000 %
107Ag (KED AGD)	119.823 ppb	2.1 %	120.000 ppb	0.147 %
111Cd (KED AGD)	119.677 ppb	2.8 %	120.000 ppb	0.270 %
115In (KED AGD)	102.290 %	5.9 %		0.000 %
121Sb (KED AGD)	120.504 ppb	3.8 %	120.000 ppb	0.420 %
137Ba (KED AGD)	120.172 ppb	3.7 %	120.000 ppb	0.143 %
159Tb (KED AGD)	105.805 %	3.6 %		0.000 %
175Lu (KED AGD)	106.402 %	4.3 %		0.000 %
205Tl (KED AGD)	119.855 ppb	2.0 %	120.000 ppb	0.121 %
208Pb (KED AGD)	120.023 ppb	3.1 %	120.000 ppb	0.019 %

Alpha ICPMSQ Data with SRD

3/5/2024 5:01:37 AM

Analysis index:	1	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	Rinse	Rack	0		
Analysis started at:	3/4/2024 5:06:56 AM	Vial	1		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	103.683 %	104.024 %	0.006 ppb	12.744 ppb	1.329 ppb	-1.481 ppb	12.570 ppb	10.826 ppb	108.624 %
Concentration per Run 1	105.800 %	100.330 %	0.003 ppb	14.230 ppb	1.160 ppb	-1.343 ppb	15.762 ppb	11.367 ppb	109.285 %
Concentration per Run 2	104.312 %	102.507 %	0.008 ppb	13.910 ppb	0.543 ppb	-1.336 ppb	11.370 ppb	11.836 ppb	108.473 %
Concentration per Run 3	100.936 %	109.235 %	0.006 ppb	10.093 ppb	2.286 ppb	-1.765 ppb	10.577 ppb	9.274 ppb	108.115 %
Concentration RSD	2.4 %	4.5 %	45.5 %	18.1 %	66.5 %	16.6 %	22.2 %	12.6 %	0.6 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.000 ppb	0.023 ppb	0.108 ppb	4.572 ppb	0.009 ppb	0.119 ppb	0.071 ppb	1.744 ppb	102.822 %
Concentration per Run 1	-0.003 ppb	0.046 ppb	0.095 ppb	4.587 ppb	0.011 ppb	0.091 ppb	0.080 ppb	1.792 ppb	98.915 %
Concentration per Run 2	0.014 ppb	0.010 ppb	0.122 ppb	4.516 ppb	0.006 ppb	0.148 ppb	0.073 ppb	1.758 ppb	104.865 %
Concentration per Run 3	-0.012 ppb	0.013 ppb	0.108 ppb	4.613 ppb	0.010 ppb	0.119 ppb	0.061 ppb	1.683 ppb	104.688 %
Concentration RSD	38,067.8 %	88.8 %	12.6 %	1.1 %	32.1 %	23.8 %	13.0 %	3.2 %	3.3 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.042 ppb	0.024 ppb	0.019 ppb	0.019 ppb	107.178 %	0.003 ppb	0.001 ppb	113.905 %	0.006 ppb
Concentration per Run 1	0.049 ppb	0.110 ppb	0.022 ppb	0.032 ppb	104.669 %	0.002 ppb	0.000 ppb	115.328 %	0.009 ppb
Concentration per Run 2	0.059 ppb	-0.012 ppb	0.018 ppb	0.020 ppb	108.385 %	0.004 ppb	0.000 ppb	111.379 %	0.006 ppb
Concentration per Run 3	0.017 ppb	-0.026 ppb	0.016 ppb	0.004 ppb	108.478 %	0.003 ppb	0.004 ppb	115.007 %	0.004 ppb
Concentration RSD	52.7 %	312.8 %	15.4 %	75.4 %	2.0 %	21.1 %	235.1 %	1.9 %	40.3 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	0.035 ppb	109.091 %	110.982 %	0.003 ppb	0.043 ppb
Concentration per Run 1	0.037 ppb	108.553 %	106.894 %	0.001 ppb	0.056 ppb
Concentration per Run 2	0.033 ppb	108.023 %	110.369 %	0.005 ppb	0.038 ppb
Concentration per Run 3	0.036 ppb	110.697 %	115.682 %	0.003 ppb	0.034 ppb
Concentration RSD	5.9 %	1.3 %	4.0 %	51.8 %	27.2 %

Alpha ICPMSQ Data with SRD

3/5/2024 5:01:37 AM

Analysis index:	2	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	CAL LOT #M24-1045	Rack	0		
Analysis started at:	3/4/2024 5:11:33 AM	Vial	1		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	101.415 %	105.805 %	0.011 ppb	10.860 ppb	1.734 ppb	-1.735 ppb	20.751 ppb	11.326 ppb	115.214 %
Concentration per Run 1	102.222 %	98.945 %	0.008 ppb	13.280 ppb	1.354 ppb	-1.126 ppb	24.754 ppb	11.194 ppb	114.272 %
Concentration per Run 2	101.425 %	110.224 %	0.011 ppb	7.669 ppb	2.098 ppb	-2.042 ppb	15.945 ppb	10.445 ppb	116.043 %
Concentration per Run 3	100.599 %	108.245 %	0.016 ppb	11.630 ppb	1.750 ppb	-2.039 ppb	21.554 ppb	12.338 ppb	115.327 %
Concentration RSD	0.8 %	5.7 %	35.6 %	26.6 %	21.4 %	30.4 %	21.5 %	8.4 %	0.8 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.015 ppb	0.017 ppb	0.120 ppb	3.579 ppb	0.008 ppb	0.090 ppb	0.091 ppb	1.754 ppb	104.276 %
Concentration per Run 1	-0.017 ppb	0.017 ppb	0.033 ppb	3.230 ppb	0.004 ppb	0.120 ppb	0.061 ppb	1.846 ppb	102.711 %
Concentration per Run 2	-0.030 ppb	0.023 ppb	0.154 ppb	3.630 ppb	0.007 ppb	0.061 ppb	0.094 ppb	1.722 ppb	103.222 %
Concentration per Run 3	0.000 ppb	0.010 ppb	0.172 ppb	3.878 ppb	0.013 ppb	0.090 ppb	0.117 ppb	1.695 ppb	106.893 %
Concentration RSD	98.7 %	38.6 %	62.9 %	9.1 %	54.9 %	32.4 %	30.9 %	4.6 %	2.2 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	-0.020 ppb	0.013 ppb	0.015 ppb	0.016 ppb	107.440 %	0.003 ppb	0.000 ppb	116.146 %	0.003 ppb
Concentration per Run 1	-0.025 ppb	-0.012 ppb	0.014 ppb	0.004 ppb	107.498 %	0.003 ppb	0.001 ppb	114.230 %	-0.001 ppb
Concentration per Run 2	-0.019 ppb	-0.005 ppb	0.012 ppb	0.011 ppb	106.570 %	0.003 ppb	0.001 ppb	113.396 %	0.009 ppb
Concentration per Run 3	-0.015 ppb	0.057 ppb	0.019 ppb	0.033 ppb	108.252 %	0.003 ppb	0.000 ppb	120.811 %	0.001 ppb
Concentration RSD	25.4 %	286.1 %	27.0 %	95.1 %	0.8 %	2.5 %	180.7 %	3.5 %	163.8 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	0.040 ppb	110.787 %	112.002 %	0.002 ppb	0.030 ppb
Concentration per Run 1	0.008 ppb	109.671 %	110.845 %	-0.001 ppb	0.034 ppb
Concentration per Run 2	0.037 ppb	110.448 %	111.272 %	0.003 ppb	0.030 ppb
Concentration per Run 3	0.076 ppb	112.242 %	113.889 %	0.003 ppb	0.027 ppb
Concentration RSD	85.3 %	1.2 %	1.5 %	118.1 %	11.4 %

Alpha ICPMSQ Data with SRD

3/5/2024 5:01:37 AM

Analysis index:	3	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	Blank EJF ICPMSQ	Rack	4		
Analysis started at:	3/4/2024 5:16:09 AM	Vial	49		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	100.000 %	100.000 %	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	100.000 %
Concentration per Run	100.000 %	100.000 %	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	100.000 %
Concentration RSD	0.0 %	0.1 %	0.2 %	0.1 %	0.3 %	0.2 %	0.1 %	0.4 %	0.0 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	100.000 %
Concentration per Run	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	100.000 %
Concentration RSD	0.5 %	0.5 %	0.3 %	0.5 %	0.4 %	0.0 %	0.1 %	0.1 %	0.1 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	100.000 %	0.000 ppb	0.000 ppb	100.000 %	0.000 ppb
Concentration per Run	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	100.000 %	0.000 ppb	0.000 ppb	100.000 %	0.000 ppb
Concentration RSD	0.3 %	9.6 %	0.1 %	0.6 %	0.1 %	0.4 %	1.7 %	0.1 %	0.2 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	0.000 ppb	100.000 %	100.000 %	0.000 ppb	0.000 ppb
Concentration per Run	0.000 ppb	100.000 %	100.000 %	0.000 ppb	0.000 ppb
Concentration RSD	0.1 %	0.1 %	0.1 %	0.2 %	0.1 %

Alpha ICPMSQ Data with SRD

3/5/2024 5:01:37 AM

Analysis index: 4
Analysis label: 0.2/20 Cal
Analysis started at: 3/4/2024 5:20:51 AM
User name ALPHALAB\Metals-Instrument
Rack 0
Vial 2
Comment <Comment>

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	97.738 %	100.923 %	0.218 ppb	N/A	24.900 ppb	N/A	N/A	N/A	101.275 %
Concentration per Run 1	98.031 %	93.008 %	0.218 ppb	N/A	24.578 ppb	N/A	N/A	N/A	100.449 %
Concentration per Run 2	97.483 %	100.726 %	0.225 ppb	N/A	25.764 ppb	N/A	N/A	N/A	101.309 %
Concentration per Run 3	97.701 %	109.037 %	0.210 ppb	N/A	24.357 ppb	N/A	N/A	N/A	102.066 %
Concentration RSD	0.3 %	7.9 %	3.2 %	N/A	3.0 %	N/A	N/A	N/A	0.8 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	N/A	N/A	0.624 ppb	22.963 ppb	0.202 ppb	N/A	N/A	N/A	102.846 %
Concentration per Run 1	N/A	N/A	0.211 ppb	22.932 ppb	0.227 ppb	N/A	N/A	N/A	96.627 %
Concentration per Run 2	N/A	N/A	1.356 ppb	20.321 ppb	0.187 ppb	N/A	N/A	N/A	100.891 %
Concentration per Run 3	N/A	N/A	0.304 ppb	25.635 ppb	0.191 ppb	N/A	N/A	N/A	111.020 %
Concentration RSD	N/A	N/A	101.9 %	11.6 %	11.1 %	N/A	N/A	N/A	7.2 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.215 ppb	N/A	0.269 ppb	N/A	99.907 %	0.241 ppb	0.250 ppb	104.373 %	N/A
Concentration per Run 1	0.237 ppb	N/A	0.273 ppb	N/A	92.559 %	0.270 ppb	0.280 ppb	93.025 %	N/A
Concentration per Run 2	0.235 ppb	N/A	0.260 ppb	N/A	102.359 %	0.225 ppb	0.244 ppb	106.258 %	N/A
Concentration per Run 3	0.175 ppb	N/A	0.273 ppb	N/A	104.802 %	0.227 ppb	0.227 ppb	113.835 %	N/A
Concentration RSD	16.4 %	N/A	2.7 %	N/A	6.5 %	10.6 %	10.8 %	10.1 %	N/A

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	0.240 ppb	101.793 %	102.232 %	N/A	0.222 ppb
Concentration per Run 1	0.254 ppb	93.881 %	94.310 %	N/A	0.250 ppb
Concentration per Run 2	0.226 ppb	103.043 %	102.013 %	N/A	0.217 ppb
Concentration per Run 3	0.240 ppb	108.456 %	110.372 %	N/A	0.199 ppb
Concentration RSD	6.0 %	7.2 %	7.9 %	N/A	11.8 %

Alpha ICPMSQ Data with SRD

3/5/2024 5:01:37 AM

Analysis index:	5	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	1/100 Cal	Rack	0		
Analysis started at:	3/4/2024 5:25:28 AM	Vial	3		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	97.241 %	103.430 %	0.998 ppb	96.287 ppb	106.788 ppb	1.444 ppb	97.695 ppb	144.122 ppb	109.086 %
Concentration per Run 1	98.307 %	100.132 %	1.017 ppb	98.017 ppb	102.552 ppb	1.783 ppb	89.921 ppb	149.558 ppb	109.782 %
Concentration per Run 2	97.097 %	101.517 %	0.989 ppb	98.713 ppb	112.170 ppb	0.412 ppb	103.655 ppb	148.850 ppb	108.456 %
Concentration per Run 3	96.320 %	108.641 %	0.987 ppb	92.130 ppb	105.644 ppb	2.138 ppb	99.510 ppb	133.959 ppb	109.021 %
Concentration RSD	1.0 %	4.4 %	1.7 %	3.8 %	4.6 %	63.1 %	7.2 %	6.1 %	0.6 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	1.031 ppb	1.021 ppb	0.984 ppb	102.340 ppb	1.058 ppb	0.980 ppb	1.047 ppb	1.156 ppb	102.947 %
Concentration per Run 1	1.031 ppb	1.109 ppb	0.872 ppb	104.184 ppb	1.069 ppb	1.028 ppb	1.072 ppb	1.255 ppb	98.137 %
Concentration per Run 2	1.034 ppb	1.014 ppb	1.147 ppb	102.197 ppb	1.065 ppb	0.978 ppb	1.036 ppb	1.067 ppb	104.412 %
Concentration per Run 3	1.028 ppb	0.941 ppb	0.933 ppb	100.639 ppb	1.039 ppb	0.933 ppb	1.033 ppb	1.145 ppb	106.294 %
Concentration RSD	0.3 %	8.3 %	14.7 %	1.7 %	1.5 %	4.8 %	2.1 %	8.2 %	4.1 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.991 ppb	1.098 ppb	1.005 ppb	0.973 ppb	106.487 %	0.996 ppb	0.968 ppb	111.918 %	0.976 ppb
Concentration per Run 1	0.993 ppb	1.064 ppb	1.019 ppb	1.026 ppb	103.782 %	1.027 ppb	1.043 ppb	106.883 %	1.012 ppb
Concentration per Run 2	0.946 ppb	0.959 ppb	0.978 ppb	0.947 ppb	108.376 %	0.976 ppb	0.972 ppb	112.919 %	0.968 ppb
Concentration per Run 3	1.034 ppb	1.271 ppb	1.019 ppb	0.946 ppb	107.301 %	0.987 ppb	0.887 ppb	115.953 %	0.947 ppb
Concentration RSD	4.5 %	14.5 %	2.4 %	4.7 %	2.3 %	2.7 %	8.1 %	4.1 %	3.4 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	0.923 ppb	109.757 %	109.165 %	0.929 ppb	1.004 ppb
Concentration per Run 1	0.950 ppb	105.955 %	104.644 %	0.927 ppb	1.042 ppb
Concentration per Run 2	0.920 ppb	111.319 %	110.581 %	0.925 ppb	0.984 ppb
Concentration per Run 3	0.900 ppb	111.997 %	112.270 %	0.936 ppb	0.987 ppb
Concentration RSD	2.7 %	3.0 %	3.7 %	0.6 %	3.3 %

Alpha ICPMSQ Data with SRD

3/5/2024 5:01:37 AM

Analysis index:	6	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	10/1000 Cal	Rack	0		
Analysis started at:	3/4/2024 5:30:06 AM	Vial	4		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	95.712 %	101.121 %	10.373 ppb	1,008.073 ppb	1,014.596 ppb	6.783 ppb	1,033.549 ppb	1,088.907 ppb	118.641 %
Concentration per Run 1	96.639 %	102.111 %	10.434 ppb	964.127 ppb	997.476 ppb	6.480 ppb	977.498 ppb	1,060.863 ppb	118.893 %
Concentration per Run 2	96.164 %	99.934 %	10.309 ppb	1,055.384 ppb	1,033.346 ppb	6.852 ppb	1,081.784 ppb	1,139.272 ppb	118.241 %
Concentration per Run 3	94.333 %	101.319 %	10.375 ppb	1,004.707 ppb	1,012.966 ppb	7.018 ppb	1,041.365 ppb	1,066.587 ppb	118.788 %
Concentration RSD	1.3 %	1.1 %	0.6 %	4.5 %	1.8 %	4.1 %	5.1 %	4.0 %	0.3 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	9.961 ppb	10.154 ppb	10.240 ppb	1,038.922 ppb	10.290 ppb	10.511 ppb	10.497 ppb	9.734 ppb	105.448 %
Concentration per Run 1	9.780 ppb	9.974 ppb	9.970 ppb	1,002.405 ppb	10.364 ppb	10.609 ppb	10.413 ppb	9.661 ppb	105.327 %
Concentration per Run 2	10.361 ppb	10.371 ppb	10.960 ppb	1,055.792 ppb	10.229 ppb	10.435 ppb	10.572 ppb	9.740 ppb	107.407 %
Concentration per Run 3	9.741 ppb	10.116 ppb	9.791 ppb	1,058.570 ppb	10.276 ppb	10.489 ppb	10.504 ppb	9.800 ppb	103.608 %
Concentration RSD	3.5 %	2.0 %	6.2 %	3.0 %	0.7 %	0.8 %	0.8 %	0.7 %	1.8 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	9.797 ppb	10.007 ppb	10.137 ppb	9.336 ppb	106.321 %	10.239 ppb	10.239 ppb	112.373 %	9.787 ppb
Concentration per Run 1	9.537 ppb	9.126 ppb	9.714 ppb	9.177 ppb	106.631 %	9.951 ppb	9.907 ppb	111.363 %	9.522 ppb
Concentration per Run 2	9.959 ppb	10.051 ppb	10.687 ppb	9.275 ppb	107.374 %	10.421 ppb	10.336 ppb	115.877 %	9.906 ppb
Concentration per Run 3	9.895 ppb	10.843 ppb	10.010 ppb	9.557 ppb	104.957 %	10.344 ppb	10.473 ppb	109.879 %	9.933 ppb
Concentration RSD	2.3 %	8.6 %	4.9 %	2.1 %	1.2 %	2.5 %	2.9 %	2.8 %	2.3 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	10.453 ppb	110.952 %	110.751 %	9.530 ppb	10.048 ppb
Concentration per Run 1	10.451 ppb	111.666 %	110.765 %	9.191 ppb	9.899 ppb
Concentration per Run 2	10.523 ppb	114.105 %	114.428 %	9.430 ppb	9.891 ppb
Concentration per Run 3	10.386 ppb	107.085 %	107.060 %	9.967 ppb	10.355 ppb
Concentration RSD	0.7 %	3.2 %	3.3 %	4.2 %	2.6 %

Alpha ICPMSQ Data with SRD

3/5/2024 5:01:37 AM

Analysis index: 7
Analysis label: 60/6000 Cal
Analysis started at: 3/4/2024 5:34:44 AM
User name ALPHALAB\Metals-Instrument
Rack 0
Vial 5
Comment <Comment>

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	90.182 %	98.549 %	61.125 ppb	6,043.814 ppb	6,062.963 ppb	60.038 ppb	6,126.915 ppb	5,984.447 ppb	126.552 %
Concentration per Run 1	91.524 %	96.966 %	60.645 ppb	6,080.561 ppb	6,048.807 ppb	59.511 ppb	5,950.019 ppb	5,686.540 ppb	128.262 %
Concentration per Run 2	89.758 %	101.121 %	61.404 ppb	6,069.316 ppb	6,127.804 ppb	60.322 ppb	6,492.027 ppb	6,343.239 ppb	125.385 %
Concentration per Run 3	89.264 %	97.559 %	61.327 ppb	5,981.565 ppb	6,012.278 ppb	60.279 ppb	5,938.700 ppb	5,923.561 ppb	126.009 %
Concentration RSD	1.3 %	2.3 %	0.7 %	0.9 %	1.0 %	0.8 %	5.2 %	5.6 %	1.2 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	60.784 ppb	60.986 ppb	62.270 ppb	6,139.912 ppb	62.065 ppb	63.045 ppb	62.555 ppb	60.042 ppb	95.613 %
Concentration per Run 1	60.545 ppb	60.707 ppb	61.846 ppb	6,100.872 ppb	62.780 ppb	64.432 ppb	63.527 ppb	58.975 ppb	95.982 %
Concentration per Run 2	61.924 ppb	61.362 ppb	64.008 ppb	6,136.424 ppb	61.222 ppb	62.043 ppb	60.521 ppb	60.514 ppb	97.728 %
Concentration per Run 3	59.884 ppb	60.890 ppb	60.957 ppb	6,182.440 ppb	62.191 ppb	62.661 ppb	63.617 ppb	60.636 ppb	93.128 %
Concentration RSD	1.7 %	0.6 %	2.5 %	0.7 %	1.3 %	2.0 %	2.8 %	1.5 %	2.4 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	62.072 ppb	61.957 ppb	61.703 ppb	58.333 ppb	101.204 %	60.314 ppb	60.608 ppb	106.458 %	59.029 ppb
Concentration per Run 1	60.810 ppb	59.715 ppb	59.484 ppb	56.275 ppb	100.932 %	60.812 ppb	61.365 ppb	103.840 %	59.233 ppb
Concentration per Run 2	62.851 ppb	65.036 ppb	65.242 ppb	59.898 ppb	102.964 %	60.088 ppb	60.528 ppb	113.081 %	59.048 ppb
Concentration per Run 3	62.555 ppb	61.119 ppb	60.384 ppb	58.826 ppb	99.715 %	60.042 ppb	59.930 ppb	102.455 %	58.804 ppb
Concentration RSD	1.8 %	4.5 %	5.0 %	3.2 %	1.6 %	0.7 %	1.2 %	5.4 %	0.4 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	59.582 ppb	108.145 %	108.628 %	60.369 ppb	59.946 ppb
Concentration per Run 1	60.750 ppb	106.605 %	104.824 %	60.851 ppb	61.382 ppb
Concentration per Run 2	59.911 ppb	111.581 %	115.145 %	58.254 ppb	57.707 ppb
Concentration per Run 3	58.085 ppb	106.251 %	105.915 %	62.002 ppb	60.749 ppb
Concentration RSD	2.3 %	2.8 %	5.2 %	3.2 %	3.3 %

Alpha ICPMSQ Data with SRD

3/5/2024 5:01:37 AM

Analysis index:	8	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	120/12000 Cal	Rack	0		
Analysis started at:	3/4/2024 5:39:22 AM	Vial	6		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	88.449 %	93.536 %	119.406 ppb	11,977.451 ppb	11,967.237 ppb	120.246 ppb	11,933.766 ppb	11,636.109 ppb	128.536 %
Concentration per Run 1	90.082 %	88.061 %	119.338 ppb	12,272.777 ppb	12,201.915 ppb	121.005 ppb	12,481.764 ppb	12,219.065 ppb	130.169 %
Concentration per Run 2	87.522 %	100.330 %	119.399 ppb	11,444.708 ppb	11,835.413 ppb	120.888 ppb	11,752.541 ppb	11,733.623 ppb	127.648 %
Concentration per Run 3	87.742 %	92.216 %	119.482 ppb	12,214.868 ppb	11,864.384 ppb	118.844 ppb	11,566.992 ppb	10,955.637 ppb	127.791 %
Concentration RSD	1.6 %	6.7 %	0.1 %	3.9 %	1.7 %	1.0 %	4.1 %	5.5 %	1.1 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	119.611 ppb	119.494 ppb	118.844 ppb	11,926.776 ppb	118.943 ppb	118.435 ppb	118.681 ppb	113.547 ppb	95.907 %
Concentration per Run 1	125.566 ppb	124.190 ppb	123.643 ppb	12,295.512 ppb	125.723 ppb	128.012 ppb	126.443 ppb	121.021 ppb	90.081 %
Concentration per Run 2	114.833 ppb	115.084 ppb	115.811 ppb	11,473.343 ppb	111.756 ppb	109.545 ppb	111.215 ppb	107.981 ppb	102.966 %
Concentration per Run 3	118.433 ppb	119.208 ppb	117.078 ppb	12,011.473 ppb	119.350 ppb	117.747 ppb	118.384 ppb	111.640 ppb	94.674 %
Concentration RSD	4.6 %	3.8 %	3.5 %	3.5 %	5.9 %	7.8 %	6.4 %	5.5 %	6.8 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	118.981 ppb	119.020 ppb	119.137 ppb	120.889 ppb	96.746 %	119.823 ppb	119.677 ppb	102.290 %	120.504 ppb
Concentration per Run 1	124.626 ppb	119.417 ppb	119.836 ppb	121.454 ppb	94.521 %	122.330 ppb	123.163 ppb	97.216 %	125.449 ppb
Concentration per Run 2	115.835 ppb	119.322 ppb	121.205 ppb	119.069 ppb	99.461 %	117.393 ppb	116.617 ppb	108.998 %	119.678 ppb
Concentration per Run 3	116.482 ppb	118.321 ppb	116.369 ppb	122.145 ppb	96.256 %	119.746 ppb	119.250 ppb	100.654 %	116.384 ppb
Concentration RSD	4.1 %	0.5 %	2.1 %	1.3 %	2.6 %	2.1 %	2.8 %	5.9 %	3.8 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	120.172 ppb	105.805 %	106.402 %	119.855 ppb	120.023 ppb
Concentration per Run 1	124.716 ppb	101.531 %	102.233 %	120.928 ppb	124.084 ppb
Concentration per Run 2	119.957 ppb	108.979 %	111.326 %	117.161 ppb	116.923 ppb
Concentration per Run 3	115.842 ppb	106.904 %	105.648 %	121.477 ppb	119.062 ppb
Concentration RSD	3.7 %	3.6 %	4.3 %	2.0 %	3.1 %

Alpha ICPMSQ Data with SRD

3/5/2024 5:01:37 AM

Analysis index:	9	User name	ALPHALAB\Metals-Instrument	Comment	Sr Inteference Check
Analysis label:	Sr 200ppb	Rack	4		
Analysis started at:	3/4/2024 5:46:58 AM	Vial	55		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	88.482 %	94.525 %	0.007 ppb	1.632 ppb	2.082 ppb	-1.958 ppb	-5.178 ppb	-0.035 ppb	98.748 %
Concentration per Run 1	89.626 %	92.414 %	0.014 ppb	2.047 ppb	1.743 ppb	-2.129 ppb	-4.345 ppb	-2.942 ppb	100.048 %
Concentration per Run 2	88.593 %	95.580 %	-0.003 ppb	1.257 ppb	2.061 ppb	-1.866 ppb	-5.774 ppb	-1.474 ppb	98.510 %
Concentration per Run 3	87.227 %	95.580 %	0.009 ppb	1.593 ppb	2.443 ppb	-1.880 ppb	-5.414 ppb	4.311 ppb	97.685 %
Concentration RSD	1.4 %	1.9 %	134.9 %	24.3 %	16.8 %	7.6 %	14.4 %	10,870.2 %	1.2 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.029 ppb	0.034 ppb	0.098 ppb	11.812 ppb	0.002 ppb	0.164 ppb	0.056 ppb	0.535 ppb	93.599 %
Concentration per Run 1	-0.035 ppb	0.032 ppb	0.083 ppb	14.062 ppb	0.003 ppb	0.158 ppb	0.045 ppb	0.546 ppb	89.236 %
Concentration per Run 2	-0.008 ppb	0.028 ppb	0.102 ppb	12.221 ppb	0.003 ppb	0.111 ppb	0.063 ppb	0.505 ppb	94.296 %
Concentration per Run 3	-0.043 ppb	0.042 ppb	0.110 ppb	9.154 ppb	0.000 ppb	0.223 ppb	0.060 ppb	0.555 ppb	97.265 %
Concentration RSD	64.1 %	21.4 %	14.3 %	21.0 %	107.4 %	34.3 %	17.1 %	5.0 %	4.3 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.041 ppb	0.227 ppb	191.388 ppb	0.635 ppb	98.047 %	0.007 ppb	0.005 ppb	100.208 %	0.048 ppb
Concentration per Run 1	0.078 ppb	0.308 ppb	190.221 ppb	0.578 ppb	94.565 %	0.011 ppb	0.006 ppb	93.538 %	0.033 ppb
Concentration per Run 2	0.007 ppb	0.254 ppb	192.016 ppb	0.739 ppb	99.869 %	0.005 ppb	0.002 ppb	103.555 %	0.052 ppb
Concentration per Run 3	0.039 ppb	0.117 ppb	191.927 ppb	0.589 ppb	99.708 %	0.006 ppb	0.006 ppb	103.530 %	0.060 ppb
Concentration RSD	85.9 %	43.4 %	0.5 %	14.2 %	3.1 %	35.7 %	49.0 %	5.8 %	28.3 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	0.044 ppb	103.064 %	101.871 %	0.295 ppb	0.018 ppb
Concentration per Run 1	0.045 ppb	99.699 %	97.713 %	0.289 ppb	0.023 ppb
Concentration per Run 2	0.030 ppb	104.852 %	103.901 %	0.319 ppb	0.017 ppb
Concentration per Run 3	0.056 ppb	104.641 %	103.999 %	0.277 ppb	0.014 ppb
Concentration RSD	29.6 %	2.8 %	3.5 %	7.4 %	26.4 %

Alpha ICPMSQ Data with SRD

3/5/2024 5:01:37 AM

Analysis index:	10	User name	ALPHALAB\Metals-Instrument	Comment	ICV
Analysis label:	ICV	Rack	0		
Analysis started at:	3/4/2024 5:51:40 AM	Vial	7		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	90.773 %	93.799 %	53.263 ppb	5,195.774 ppb	5,327.078 ppb	48.963 ppb	5,033.190 ppb	5,132.175 ppb	102.410 %
Concentration per Run 1	92.589 %	83.311 %	52.950 ppb	5,650.126 ppb	5,821.497 ppb	53.460 ppb	5,426.969 ppb	5,566.925 ppb	102.189 %
Concentration per Run 2	90.111 %	104.090 %	53.805 ppb	4,802.042 ppb	4,881.546 ppb	41.843 ppb	4,739.712 ppb	4,859.777 ppb	102.309 %
Concentration per Run 3	89.620 %	93.997 %	53.034 ppb	5,135.155 ppb	5,278.192 ppb	51.585 ppb	4,932.887 ppb	4,969.823 ppb	102.733 %
Recovery Percentage 1			106.526 %	103.915 %	106.542 %	97.926 %	100.664 %	102.644 %	
Concentration RSD	1.8 %	11.1 %	0.9 %	8.2 %	8.9 %	12.7 %	7.0 %	7.4 %	0.3 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	52.346 ppb	52.480 ppb	53.108 ppb	5,314.137 ppb	54.163 ppb	55.019 ppb	54.317 ppb	52.301 ppb	93.870 %
Concentration per Run 1	57.557 ppb	57.225 ppb	56.830 ppb	5,787.494 ppb	59.524 ppb	60.741 ppb	59.851 ppb	56.484 ppb	84.885 %
Concentration per Run 2	50.084 ppb	49.363 ppb	50.546 ppb	4,967.541 ppb	50.716 ppb	51.657 ppb	51.232 ppb	50.266 ppb	98.609 %
Concentration per Run 3	49.396 ppb	50.852 ppb	51.947 ppb	5,187.377 ppb	52.248 ppb	52.657 ppb	51.869 ppb	50.154 ppb	98.117 %
Recovery Percentage 1	104.692 %	104.960 %	106.215 %	106.283 %	108.325 %	110.037 %	108.635 %	104.602 %	
Concentration RSD	8.6 %	8.0 %	6.2 %	8.0 %	8.7 %	9.1 %	8.8 %	6.9 %	8.3 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	53.272 ppb	52.106 ppb	49.146 ppb	52.579 ppb	95.154 %	54.666 ppb	54.130 ppb	95.554 %	54.286 ppb
Concentration per Run 1	57.855 ppb	56.685 ppb	51.891 ppb	55.323 ppb	87.594 %	59.733 ppb	58.879 ppb	86.658 %	57.393 ppb
Concentration per Run 2	50.663 ppb	50.036 ppb	47.761 ppb	51.223 ppb	98.605 %	52.694 ppb	52.518 ppb	99.118 %	53.290 ppb
Concentration per Run 3	51.297 ppb	49.598 ppb	47.786 ppb	51.190 ppb	99.263 %	51.572 ppb	50.994 ppb	100.886 %	52.175 ppb
Recovery Percentage 1	106.544 %	104.213 %	98.292 %	105.158 %		109.333 %	108.261 %		108.572 %
Concentration RSD	7.5 %	7.6 %	4.8 %	4.5 %	6.9 %	8.1 %	7.7 %	8.1 %	5.1 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	53.125 ppb	100.105 %	99.061 %	55.210 ppb	57.482 ppb
Concentration per Run 1	55.590 ppb	90.095 %	88.168 %	57.871 ppb	63.677 ppb
Concentration per Run 2	52.470 ppb	104.158 %	103.520 %	53.547 ppb	54.538 ppb
Concentration per Run 3	51.316 ppb	106.063 %	105.495 %	54.212 ppb	54.230 ppb
Recovery Percentage 1	106.251 %			110.420 %	114.963 %
Concentration RSD	4.2 %	8.7 %	9.6 %	4.2 %	9.3 %

Alpha ICPMSQ Data with SRD

3/5/2024 5:01:37 AM

Analysis index:	11	User name	ALPHALAB\Metals-Instrument	Comment	ICB
Analysis label:	ICB	Rack	0		
Analysis started at:	3/4/2024 5:56:20 AM	Vial	10		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	88.197 %	90.831 %	0.010 ppb	2.466 ppb	0.261 ppb	-2.966 ppb	-5.324 ppb	3.007 ppb	91.455 %
Concentration per Run 1	89.302 %	81.530 %	0.011 ppb	6.109 ppb	0.127 ppb	-3.070 ppb	-4.589 ppb	3.804 ppb	91.054 %
Concentration per Run 2	87.915 %	92.414 %	0.004 ppb	0.936 ppb	0.447 ppb	-2.792 ppb	-6.290 ppb	3.811 ppb	91.560 %
Concentration per Run 3	87.374 %	98.549 %	0.015 ppb	0.354 ppb	0.210 ppb	-3.037 ppb	-5.092 ppb	1.406 ppb	91.752 %
Recovery Percentage 1			1.966 %	2.466 %	0.373 %	-29.663 %	-5.324 %	3.007 %	
Concentration RSD	1.1 %	9.5 %	56.0 %	128.5 %	63.4 %	5.1 %	16.4 %	46.1 %	0.4 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.022 ppb	0.000 ppb	0.001 ppb	10.473 ppb	-0.001 ppb	0.037 ppb	-0.017 ppb	0.246 ppb	91.660 %
Concentration per Run 1	-0.035 ppb	-0.023 ppb	0.024 ppb	11.126 ppb	-0.002 ppb	0.035 ppb	-0.007 ppb	0.271 ppb	82.048 %
Concentration per Run 2	-0.002 ppb	0.014 ppb	-0.011 ppb	10.272 ppb	-0.002 ppb	0.060 ppb	-0.034 ppb	0.214 ppb	98.232 %
Concentration per Run 3	-0.029 ppb	0.010 ppb	-0.011 ppb	10.022 ppb	0.001 ppb	0.015 ppb	-0.010 ppb	0.255 ppb	94.700 %
Recovery Percentage 1	-0.434 %	0.007 %	0.065 %	20.947 %	-0.203 %	1.840 %	-1.719 %	4.929 %	
Concentration RSD	81.4 %	27,432.8 %	3,127.9 %	5.5 %	195.3 %	61.3 %	84.3 %	11.9 %	9.3 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.054 ppb	0.489 ppb	0.003 ppb	0.913 ppb	95.122 %	0.008 ppb	0.005 ppb	93.264 %	0.091 ppb
Concentration per Run 1	0.068 ppb	0.567 ppb	0.006 ppb	0.986 ppb	86.462 %	0.011 ppb	0.010 ppb	82.884 %	0.082 ppb
Concentration per Run 2	0.036 ppb	0.405 ppb	0.003 ppb	0.861 ppb	99.823 %	0.007 ppb	0.005 ppb	98.380 %	0.098 ppb
Concentration per Run 3	0.057 ppb	0.494 ppb	0.000 ppb	0.893 ppb	99.080 %	0.006 ppb	0.001 ppb	98.528 %	0.094 ppb
Recovery Percentage 1	10.719 %	9.772 %	0.032 %	45.666 %		2.011 %	2.546 %		2.286 %
Concentration RSD	29.8 %	16.5 %	90.8 %	7.1 %	7.9 %	33.3 %	88.5 %	9.6 %	9.2 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	-0.002 ppb	96.668 %	96.297 %	0.417 ppb	0.015 ppb
Concentration per Run 1	-0.010 ppb	87.128 %	84.534 %	0.374 ppb	0.021 ppb
Concentration per Run 2	-0.005 ppb	100.392 %	102.827 %	0.457 ppb	0.014 ppb
Concentration per Run 3	0.011 ppb	102.486 %	101.531 %	0.418 ppb	0.008 ppb
Recovery Percentage 1	-0.313 %			41.666 %	1.453 %
Concentration RSD	685.9 %	8.6 %	10.6 %	9.9 %	44.6 %

Alpha ICPMSQ Data with SRD

3/5/2024 5:01:37 AM

Analysis index:	12	User name	ALPHALAB\Metals-Instrument	Comment	ICV
Analysis label:	ICV	Rack	0		
Analysis started at:	3/4/2024 6:03:29 AM	Vial	7		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	88.703 %	96.900 %	53.048 ppb	4,912.145 ppb	4,940.711 ppb	49.169 ppb	4,829.057 ppb	5,139.800 ppb	111.309 %
Concentration per Run 1	89.943 %	99.538 %	53.151 ppb	4,852.904 ppb	4,826.178 ppb	47.174 ppb	4,854.104 ppb	5,200.332 ppb	111.603 %
Concentration per Run 2	89.169 %	99.340 %	52.697 ppb	4,729.554 ppb	4,780.741 ppb	47.201 ppb	4,748.822 ppb	5,009.728 ppb	110.735 %
Concentration per Run 3	86.995 %	91.820 %	53.296 ppb	5,153.977 ppb	5,215.215 ppb	53.131 ppb	4,884.246 ppb	5,209.340 ppb	111.590 %
Recovery Percentage 1			106.096 %	98.243 %	98.814 %	98.337 %	96.581 %	102.796 %	
Concentration RSD	1.7 %	4.5 %	0.6 %	4.4 %	4.8 %	7.0 %	1.5 %	2.2 %	0.4 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	50.609 ppb	50.959 ppb	50.349 ppb	5,138.659 ppb	51.624 ppb	52.223 ppb	52.229 ppb	50.054 ppb	95.994 %
Concentration per Run 1	51.348 ppb	51.172 ppb	50.916 ppb	5,167.745 ppb	52.362 ppb	52.732 ppb	52.908 ppb	50.058 ppb	93.701 %
Concentration per Run 2	49.455 ppb	49.842 ppb	49.923 ppb	5,085.709 ppb	51.569 ppb	52.073 ppb	51.906 ppb	49.958 ppb	96.342 %
Concentration per Run 3	51.024 ppb	51.864 ppb	50.208 ppb	5,162.523 ppb	50.942 ppb	51.863 ppb	51.872 ppb	50.147 ppb	97.939 %
Recovery Percentage 1	101.218 %	101.918 %	100.698 %	102.773 %	103.249 %	104.446 %	104.458 %	100.109 %	
Concentration RSD	2.0 %	2.0 %	1.0 %	0.9 %	1.4 %	0.9 %	1.1 %	0.2 %	2.2 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	51.313 ppb	48.618 ppb	49.706 ppb	49.104 ppb	98.600 %	51.300 ppb	51.985 ppb	103.363 %	49.673 ppb
Concentration per Run 1	52.239 ppb	51.297 ppb	50.234 ppb	48.568 ppb	99.074 %	52.375 ppb	52.078 ppb	101.586 %	50.796 ppb
Concentration per Run 2	51.519 ppb	49.002 ppb	49.581 ppb	49.265 ppb	99.166 %	51.568 ppb	52.631 ppb	102.329 %	49.784 ppb
Concentration per Run 3	50.181 ppb	45.556 ppb	49.303 ppb	49.479 ppb	97.558 %	49.958 ppb	51.247 ppb	106.174 %	48.440 ppb
Recovery Percentage 1	102.626 %	97.237 %	99.411 %	98.208 %		102.600 %	103.970 %		99.346 %
Concentration RSD	2.0 %	5.9 %	1.0 %	1.0 %	0.9 %	2.4 %	1.3 %	2.4 %	2.4 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	50.958 ppb	106.961 %	106.619 %	50.866 ppb	52.424 ppb
Concentration per Run 1	50.382 ppb	106.934 %	104.840 %	49.716 ppb	53.728 ppb
Concentration per Run 2	52.524 ppb	106.400 %	107.227 %	51.632 ppb	52.148 ppb
Concentration per Run 3	49.967 ppb	107.551 %	107.791 %	51.251 ppb	51.396 ppb
Recovery Percentage 1	101.916 %			101.732 %	104.848 %
Concentration RSD	2.7 %	0.5 %	1.5 %	2.0 %	2.3 %

Alpha ICPMSQ Data with SRD

3/5/2024 5:01:37 AM

Analysis index:	13	User name	ALPHALAB\Metals-Instrument	Comment	ICB
Analysis label:	ICB	Rack	0		
Analysis started at:	3/4/2024 6:08:09 AM	Vial	10		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	88.516 %	94.393 %	0.008 ppb	2.300 ppb	0.055 ppb	-2.687 ppb	-5.616 ppb	3.393 ppb	92.588 %
Concentration per Run 1	88.780 %	80.936 %	0.013 ppb	6.761 ppb	0.359 ppb	-2.802 ppb	-0.256 ppb	6.389 ppb	92.220 %
Concentration per Run 2	89.005 %	101.121 %	0.005 ppb	-1.118 ppb	-0.002 ppb	-2.822 ppb	-9.032 ppb	2.396 ppb	92.959 %
Concentration per Run 3	87.762 %	101.121 %	0.006 ppb	1.258 ppb	-0.192 ppb	-2.438 ppb	-7.561 ppb	1.393 ppb	92.585 %
Recovery Percentage 1			1.550 %	2.300 %	0.079 %	-26.873 %	-5.616 %	3.393 %	
Concentration RSD	0.7 %	12.3 %	54.8 %	175.7 %	508.6 %	8.0 %	83.7 %	77.9 %	0.4 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.036 ppb	-0.007 ppb	-0.014 ppb	11.032 ppb	0.001 ppb	0.052 ppb	0.007 ppb	0.255 ppb	91.112 %
Concentration per Run 1	-0.035 ppb	-0.011 ppb	-0.020 ppb	12.296 ppb	0.004 ppb	0.019 ppb	-0.009 ppb	0.286 ppb	85.339 %
Concentration per Run 2	-0.029 ppb	-0.007 ppb	0.013 ppb	9.462 ppb	0.000 ppb	0.077 ppb	0.019 ppb	0.241 ppb	96.222 %
Concentration per Run 3	-0.043 ppb	-0.003 ppb	-0.035 ppb	11.337 ppb	0.000 ppb	0.059 ppb	0.010 ppb	0.238 ppb	91.775 %
Recovery Percentage 1	-0.710 %	-0.692 %	-1.421 %	22.064 %	0.186 %	2.579 %	0.675 %	5.102 %	
Concentration RSD	19.0 %	55.9 %	172.0 %	13.1 %	255.8 %	57.4 %	211.8 %	10.5 %	6.0 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.071 ppb	0.361 ppb	0.006 ppb	0.954 ppb	94.864 %	0.006 ppb	0.004 ppb	95.382 %	0.090 ppb
Concentration per Run 1	0.139 ppb	0.552 ppb	0.006 ppb	1.045 ppb	87.767 %	0.007 ppb	0.008 ppb	91.075 %	0.071 ppb
Concentration per Run 2	0.041 ppb	0.280 ppb	0.007 ppb	0.907 ppb	97.484 %	0.007 ppb	0.001 ppb	93.851 %	0.084 ppb
Concentration per Run 3	0.033 ppb	0.250 ppb	0.006 ppb	0.909 ppb	99.342 %	0.004 ppb	0.004 ppb	101.222 %	0.114 ppb
Recovery Percentage 1	14.261 %	7.212 %	0.062 %	47.686 %		1.482 %	2.201 %		2.238 %
Concentration RSD	82.7 %	46.3 %	13.6 %	8.3 %	6.6 %	31.4 %	78.3 %	5.5 %	24.8 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	0.011 ppb	96.992 %	97.017 %	0.402 ppb	0.013 ppb
Concentration per Run 1	-0.010 ppb	89.190 %	89.838 %	0.359 ppb	0.020 ppb
Concentration per Run 2	0.023 ppb	99.303 %	99.125 %	0.463 ppb	0.011 ppb
Concentration per Run 3	0.021 ppb	102.483 %	102.087 %	0.382 ppb	0.008 ppb
Recovery Percentage 1	2.222 %			40.160 %	1.314 %
Concentration RSD	166.7 %	7.2 %	6.6 %	13.6 %	47.8 %

Alpha ICPMSQ Data with SRD

3/5/2024 5:01:37 AM

Analysis index:	14	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	ICSA	Rack	4		
Analysis started at:	3/4/2024 6:12:50 AM	Vial	53		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	77.373 %	88.720 %	0.018 ppb	51,157.420 ppb	19,962.881 ppb	19,756.590 ppb	19,119.418 ppb	56,554.135 ppb	107.312 %
Concentration per Run 1	77.753 %	88.061 %	0.017 ppb	50,772.218 ppb	19,801.802 ppb	19,222.598 ppb	18,632.663 ppb	55,529.595 ppb	107.156 %
Concentration per Run 2	78.081 %	88.654 %	0.023 ppb	49,802.456 ppb	19,586.364 ppb	19,376.450 ppb	18,996.091 ppb	55,715.749 ppb	107.730 %
Concentration per Run 3	76.285 %	89.446 %	0.013 ppb	52,897.585 ppb	20,500.476 ppb	20,670.721 ppb	19,729.499 ppb	58,417.061 ppb	107.052 %
Recovery Percentage 1			3.513 %	102.315 %	99.814 %	98.783 %	95.597 %	94.257 %	
Concentration RSD	1.2 %	0.8 %	26.6 %	3.1 %	2.4 %	4.0 %	2.9 %	2.9 %	0.3 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.001 ppb	0.287 ppb	1.085 ppb	50,196.250 ppb	0.423 ppb	0.633 ppb	0.279 ppb	1.313 ppb	92.374 %
Concentration per Run 1	0.001 ppb	0.288 ppb	1.051 ppb	47,108.680 ppb	0.438 ppb	0.627 ppb	0.277 ppb	1.350 ppb	92.401 %
Concentration per Run 2	-0.013 ppb	0.329 ppb	1.203 ppb	52,028.585 ppb	0.388 ppb	0.673 ppb	0.317 ppb	1.324 ppb	89.855 %
Concentration per Run 3	0.014 ppb	0.244 ppb	1.001 ppb	51,451.485 ppb	0.443 ppb	0.598 ppb	0.242 ppb	1.265 ppb	94.866 %
Recovery Percentage 1	0.023 %	28.685 %	108.508 %	100.392 %	84.624 %	31.641 %	27.852 %	26.252 %	
Concentration RSD	2,365.9 %	14.9 %	9.7 %	5.4 %	7.2 %	6.0 %	13.6 %	3.3 %	2.7 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.117 ppb	0.900 ppb	0.523 ppb	406.416 ppb	89.301 %	0.006 ppb	0.077 ppb	98.695 %	0.070 ppb
Concentration per Run 1	0.145 ppb	1.128 ppb	0.492 ppb	391.319 ppb	89.102 %	0.006 ppb	0.068 ppb	99.150 %	0.070 ppb
Concentration per Run 2	0.085 ppb	1.071 ppb	0.516 ppb	413.703 ppb	89.089 %	0.005 ppb	0.081 ppb	94.235 %	0.062 ppb
Concentration per Run 3	0.120 ppb	0.500 ppb	0.561 ppb	414.226 ppb	89.714 %	0.008 ppb	0.082 ppb	102.702 %	0.078 ppb
Recovery Percentage 1	23.311 %	17.993 %	104.660 %	101.604 %		1.467 %	38.327 %		1.746 %
Concentration RSD	26.0 %	38.6 %	6.7 %	3.2 %	0.4 %	26.7 %	10.4 %	4.3 %	11.8 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	0.216 ppb	104.121 %	106.610 %	0.122 ppb	0.395 ppb
Concentration per Run 1	0.165 ppb	103.124 %	104.884 %	0.084 ppb	0.402 ppb
Concentration per Run 2	0.251 ppb	103.477 %	104.330 %	0.145 ppb	0.401 ppb
Concentration per Run 3	0.232 ppb	105.762 %	110.615 %	0.136 ppb	0.383 ppb
Recovery Percentage 1	43.130 %			12.176 %	39.519 %
Concentration RSD	20.9 %	1.4 %	3.3 %	26.8 %	2.6 %

Alpha ICPMSQ Data with SRD

3/5/2024 5:01:37 AM

Analysis index: 15
Analysis label: LDR Check - 10ppm
Analysis started at: 3/4/2024 6:17:32 AM
User name ALPHALAB\Metals-Instrument
Rack 4
Vial 1
Comment <Comment>

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	97.718 %	104.683 %	0.008 ppb	3.362 ppb	2.930 ppb	-0.041 ppb	4.241 ppb	10.461 ppb	120.059 %
Concentration per Run 1	98.540 %	98.351 %	0.005 ppb	3.778 ppb	3.458 ppb	-0.050 ppb	2.446 ppb	6.822 ppb	119.794 %
Concentration per Run 2	97.859 %	110.027 %	0.006 ppb	2.072 ppb	2.395 ppb	0.200 ppb	-4.562 ppb	14.167 ppb	120.507 %
Concentration per Run 3	96.754 %	105.673 %	0.014 ppb	4.238 ppb	2.937 ppb	-0.272 ppb	14.838 ppb	10.394 ppb	119.875 %
Concentration RSD	0.9 %	5.6 %	62.9 %	33.9 %	18.1 %	577.4 %	231.6 %	35.1 %	0.3 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.037 ppb	0.018 ppb	10,454.549 ppb	25.894 ppb	0.174 ppb	0.147 ppb	10,369.587 ppb	9,698.952 ppb	113.780 %
Concentration per Run 1	-0.030 ppb	0.010 ppb	10,426.463 ppb	25.316 ppb	0.193 ppb	0.146 ppb	10,607.263 ppb	9,772.687 ppb	107.141 %
Concentration per Run 2	-0.043 ppb	0.022 ppb	10,119.699 ppb	27.334 ppb	0.170 ppb	0.210 ppb	10,260.379 ppb	9,660.451 ppb	111.999 %
Concentration per Run 3	-0.037 ppb	0.022 ppb	10,817.484 ppb	25.031 ppb	0.160 ppb	0.084 ppb	10,241.119 ppb	9,663.718 ppb	122.199 %
Concentration RSD	17.4 %	40.1 %	3.3 %	4.8 %	9.7 %	42.9 %	2.0 %	0.7 %	6.8 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.006 ppb	0.105 ppb	0.218 ppb	4.011 ppb	117.242 %	0.038 ppb	0.015 ppb	120.620 %	0.019 ppb
Concentration per Run 1	-0.019 ppb	0.168 ppb	0.218 ppb	4.026 ppb	109.741 %	0.038 ppb	0.016 ppb	114.953 %	0.017 ppb
Concentration per Run 2	0.011 ppb	0.092 ppb	0.214 ppb	3.953 ppb	119.954 %	0.039 ppb	0.014 ppb	120.741 %	0.015 ppb
Concentration per Run 3	0.026 ppb	0.056 ppb	0.221 ppb	4.054 ppb	122.031 %	0.038 ppb	0.014 ppb	126.167 %	0.024 ppb
Concentration RSD	385.0 %	54.4 %	1.7 %	1.3 %	5.6 %	0.7 %	7.1 %	4.6 %	25.6 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	10,403.720 ppb	117.785 %	116.946 %	0.078 ppb	10,254.522 ppb
Concentration per Run 1	10,358.177 ppb	112.823 %	109.944 %	0.050 ppb	10,824.022 ppb
Concentration per Run 2	10,138.447 ppb	118.320 %	116.734 %	0.093 ppb	10,241.556 ppb
Concentration per Run 3	10,714.537 ppb	122.210 %	124.160 %	0.090 ppb	9,697.988 ppb
Concentration RSD	2.8 %	4.0 %	6.1 %	30.5 %	5.5 %

Alpha ICPMSQ Data with SRD

3/5/2024 5:01:37 AM

Analysis index:	16	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	Rinse	Rack	0		
Analysis started at:	3/4/2024 6:22:12 AM	Vial	1		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	93.587 %	107.652 %	0.021 ppb	11.374 ppb	1.053 ppb	-1.122 ppb	11.032 ppb	7.605 ppb	115.957 %
Concentration per Run 1	95.120 %	105.079 %	0.020 ppb	11.547 ppb	1.082 ppb	-1.080 ppb	17.991 ppb	7.362 ppb	116.598 %
Concentration per Run 2	93.288 %	103.100 %	0.022 ppb	11.315 ppb	1.307 ppb	-1.464 ppb	11.801 ppb	12.120 ppb	116.338 %
Concentration per Run 3	92.352 %	114.776 %	0.022 ppb	11.262 ppb	0.769 ppb	-0.822 ppb	3.303 ppb	3.333 ppb	114.937 %
Concentration RSD	1.5 %	5.8 %	3.7 %	1.3 %	25.6 %	28.8 %	66.8 %	57.8 %	0.8 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.018 ppb	0.016 ppb	0.441 ppb	24.138 ppb	0.004 ppb	0.146 ppb	0.539 ppb	2.866 ppb	105.982 %
Concentration per Run 1	-0.036 ppb	0.014 ppb	0.553 ppb	23.151 ppb	0.003 ppb	0.187 ppb	0.618 ppb	3.073 ppb	103.558 %
Concentration per Run 2	0.003 ppb	0.026 ppb	0.394 ppb	26.776 ppb	0.004 ppb	0.121 ppb	0.546 ppb	2.941 ppb	100.689 %
Concentration per Run 3	-0.020 ppb	0.009 ppb	0.376 ppb	22.488 ppb	0.005 ppb	0.130 ppb	0.452 ppb	2.585 ppb	113.700 %
Concentration RSD	111.1 %	53.2 %	22.1 %	9.6 %	31.8 %	24.4 %	15.4 %	8.8 %	6.4 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.019 ppb	0.062 ppb	0.021 ppb	1.266 ppb	113.413 %	0.006 ppb	0.002 ppb	118.842 %	0.020 ppb
Concentration per Run 1	0.058 ppb	0.066 ppb	0.021 ppb	1.219 ppb	110.984 %	0.005 ppb	0.004 ppb	113.171 %	0.018 ppb
Concentration per Run 2	0.018 ppb	0.097 ppb	0.023 ppb	1.231 ppb	113.353 %	0.006 ppb	0.000 ppb	117.721 %	0.018 ppb
Concentration per Run 3	-0.021 ppb	0.022 ppb	0.018 ppb	1.348 ppb	115.902 %	0.006 ppb	0.003 ppb	125.633 %	0.024 ppb
Concentration RSD	214.3 %	61.0 %	11.1 %	5.7 %	2.2 %	6.1 %	107.6 %	5.3 %	16.5 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	0.289 ppb	113.283 %	113.050 %	0.054 ppb	1.127 ppb
Concentration per Run 1	0.268 ppb	110.315 %	106.890 %	0.035 ppb	1.422 ppb
Concentration per Run 2	0.349 ppb	112.170 %	113.126 %	0.063 ppb	1.083 ppb
Concentration per Run 3	0.250 ppb	117.366 %	119.133 %	0.065 ppb	0.876 ppb
Concentration RSD	18.3 %	3.2 %	5.4 %	30.4 %	24.5 %

Alpha ICPMSQ Data with SRD

3/5/2024 5:01:37 AM

Analysis index:	17	User name	ALPHALAB\Metals-Instrument	Comment	CCV/MCCV
Analysis label:	CCV	Rack	0		
Analysis started at:	3/4/2024 6:26:48 AM	Vial	9		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	87.672 %	94.459 %	62.684 ppb	6,612.471 ppb	6,566.155 ppb	65.994 ppb	6,628.886 ppb	6,525.571 ppb	103.196 %
Concentration per Run 1	89.248 %	88.258 %	62.320 ppb	7,197.399 ppb	7,122.617 ppb	74.997 ppb	7,241.816 ppb	7,357.476 ppb	103.434 %
Concentration per Run 2	87.493 %	93.601 %	62.676 ppb	6,418.535 ppb	6,345.655 ppb	61.142 ppb	6,237.681 ppb	6,194.490 ppb	103.869 %
Concentration per Run 3	86.276 %	101.517 %	63.056 ppb	6,221.479 ppb	6,230.193 ppb	61.843 ppb	6,407.160 ppb	6,024.748 ppb	102.283 %
Recovery Percentage 1			104.473 %	110.208 %	109.436 %	109.990 %	110.481 %	108.760 %	
Concentration RSD	1.7 %	7.1 %	0.6 %	7.8 %	7.4 %	11.8 %	8.1 %	11.1 %	0.8 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	62.786 ppb	63.416 ppb	64.380 ppb	6,515.042 ppb	65.735 ppb	66.115 ppb	65.894 ppb	63.995 ppb	103.353 %
Concentration per Run 1	69.392 ppb	70.112 ppb	70.221 ppb	7,250.318 ppb	74.561 ppb	74.187 ppb	75.143 ppb	71.941 ppb	94.229 %
Concentration per Run 2	61.464 ppb	61.629 ppb	62.434 ppb	6,242.012 ppb	63.089 ppb	63.274 ppb	62.275 ppb	60.674 ppb	105.618 %
Concentration per Run 3	57.501 ppb	58.509 ppb	60.485 ppb	6,052.797 ppb	59.555 ppb	60.884 ppb	60.264 ppb	59.370 ppb	110.213 %
Recovery Percentage 1	104.643 %	105.694 %	107.300 %	108.584 %	109.558 %	110.191 %	109.824 %	106.659 %	
Concentration RSD	9.6 %	9.5 %	8.0 %	9.9 %	11.9 %	10.7 %	12.3 %	10.8 %	8.0 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	63.379 ppb	63.011 ppb	63.423 ppb	63.058 ppb	100.853 %	65.875 ppb	62.804 ppb	103.576 %	64.090 ppb
Concentration per Run 1	70.070 ppb	67.028 ppb	67.745 ppb	67.110 ppb	94.692 %	71.635 ppb	69.366 ppb	95.156 %	69.957 ppb
Concentration per Run 2	60.823 ppb	60.588 ppb	60.067 ppb	61.008 ppb	103.003 %	64.705 ppb	60.600 ppb	103.791 %	61.933 ppb
Concentration per Run 3	59.243 ppb	61.418 ppb	62.456 ppb	61.055 ppb	104.863 %	61.283 ppb	58.447 ppb	111.782 %	60.380 ppb
Recovery Percentage 1	105.631 %	105.019 %	105.705 %	105.096 %		109.791 %	104.674 %		106.817 %
Concentration RSD	9.2 %	5.6 %	6.2 %	5.6 %	5.4 %	8.0 %	9.2 %	8.0 %	8.0 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	65.340 ppb	104.818 %	105.059 %	65.653 ppb	65.977 ppb
Concentration per Run 1	70.693 ppb	96.541 %	96.418 %	71.185 ppb	72.784 ppb
Concentration per Run 2	63.046 ppb	106.717 %	103.836 %	65.389 ppb	65.431 ppb
Concentration per Run 3	62.281 ppb	111.197 %	114.923 %	60.385 ppb	59.716 ppb
Recovery Percentage 1	108.900 %			109.422 %	109.961 %
Concentration RSD	7.1 %	7.2 %	8.9 %	8.2 %	9.9 %

Alpha ICPMSQ Data with SRD

3/5/2024 5:01:37 AM

Analysis index:	18	User name	ALPHALAB\Metals-Instrument	Comment	CCB
Analysis label:	CCB	Rack	0		
Analysis started at:	3/4/2024 6:31:30 AM	Vial	10		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	86.007 %	97.823 %	0.010 ppb	0.131 ppb	0.537 ppb	-2.812 ppb	1.546 ppb	3.650 ppb	104.896 %
Concentration per Run 1	86.378 %	97.361 %	0.012 ppb	-0.545 ppb	0.417 ppb	-2.882 ppb	2.219 ppb	2.530 ppb	104.016 %
Concentration per Run 2	86.606 %	101.715 %	0.009 ppb	-0.789 ppb	0.960 ppb	-2.603 ppb	0.548 ppb	4.578 ppb	105.619 %
Concentration per Run 3	85.038 %	94.393 %	0.009 ppb	1.728 ppb	0.234 ppb	-2.951 ppb	1.870 ppb	3.842 ppb	105.052 %
Recovery Percentage 1			2.015 %	0.131 %	0.767 %	-28.120 %	1.546 %	3.650 %	
Concentration RSD	1.0 %	3.8 %	20.1 %	1,058.1 %	70.3 %	6.5 %	57.0 %	28.4 %	0.8 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.036 ppb	-0.006 ppb	0.067 ppb	20.724 ppb	0.004 ppb	0.014 ppb	0.065 ppb	0.496 ppb	95.662 %
Concentration per Run 1	-0.036 ppb	-0.012 ppb	0.039 ppb	21.499 ppb	0.001 ppb	0.045 ppb	0.078 ppb	0.528 ppb	94.801 %
Concentration per Run 2	-0.029 ppb	-0.002 ppb	0.012 ppb	25.145 ppb	0.005 ppb	0.013 ppb	0.078 ppb	0.494 ppb	96.691 %
Concentration per Run 3	-0.043 ppb	-0.003 ppb	0.150 ppb	15.528 ppb	0.005 ppb	-0.014 ppb	0.039 ppb	0.466 ppb	95.495 %
Recovery Percentage 1	-0.717 %	-0.608 %	6.704 %	41.448 %	0.705 %	0.721 %	6.510 %	9.924 %	
Concentration RSD	18.7 %	90.9 %	109.4 %	23.4 %	55.2 %	204.5 %	34.4 %	6.3 %	1.0 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.059 ppb	0.339 ppb	0.011 ppb	1.189 ppb	103.521 %	0.006 ppb	0.003 ppb	107.500 %	0.050 ppb
Concentration per Run 1	0.033 ppb	0.281 ppb	0.011 ppb	1.103 ppb	103.011 %	0.006 ppb	0.003 ppb	102.717 %	0.037 ppb
Concentration per Run 2	0.097 ppb	0.242 ppb	0.017 ppb	1.149 ppb	104.774 %	0.008 ppb	0.002 ppb	113.355 %	0.051 ppb
Concentration per Run 3	0.047 ppb	0.493 ppb	0.006 ppb	1.315 ppb	102.777 %	0.004 ppb	0.004 ppb	106.428 %	0.063 ppb
Recovery Percentage 1	11.777 %	6.771 %	0.112 %	59.452 %		1.472 %	1.553 %		1.257 %
Concentration RSD	57.1 %	39.9 %	49.6 %	9.4 %	1.1 %	42.1 %	39.4 %	5.0 %	26.7 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	0.015 ppb	108.699 %	108.818 %	0.409 ppb	0.218 ppb
Concentration per Run 1	0.035 ppb	107.436 %	107.920 %	0.322 ppb	0.236 ppb
Concentration per Run 2	0.012 ppb	112.108 %	110.365 %	0.484 ppb	0.222 ppb
Concentration per Run 3	-0.001 ppb	106.552 %	108.168 %	0.419 ppb	0.197 ppb
Recovery Percentage 1	3.093 %			40.861 %	21.835 %
Concentration RSD	117.8 %	2.7 %	1.2 %	19.9 %	8.9 %

Alpha ICPMSQ Data with SRD

3/5/2024 5:01:37 AM

Analysis index:	19	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	L2410277-01d10 6020TL	Rack	1		
Analysis started at:	3/4/2024 6:42:13 AM	Vial	1		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	84.327 %	92.942 %	0.009 ppb	27,762.792 ppb	6,715.947 ppb	-0.135 ppb	2,020.171 ppb	9,210.752 ppb	95.767 %
Concentration per Run 1	86.103 %	92.414 %	0.005 ppb	28,181.483 ppb	6,792.136 ppb	-0.206 ppb	1,990.114 ppb	9,177.367 ppb	97.354 %
Concentration per Run 2	84.578 %	97.361 %	0.008 ppb	26,254.476 ppb	6,443.378 ppb	0.369 ppb	1,941.134 ppb	8,851.303 ppb	94.566 %
Concentration per Run 3	82.299 %	89.050 %	0.014 ppb	28,852.417 ppb	6,912.329 ppb	-0.568 ppb	2,129.266 ppb	9,603.586 ppb	95.381 %
Concentration RSD	2.3 %	4.5 %	46.9 %	4.9 %	3.6 %	351.0 %	4.8 %	4.1 %	1.5 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.009 ppb	0.053 ppb	168.974 ppb	1,546.211 ppb	0.043 ppb	0.131 ppb	0.076 ppb	0.583 ppb	89.339 %
Concentration per Run 1	0.015 ppb	0.042 ppb	172.815 ppb	1,567.933 ppb	0.046 ppb	0.087 ppb	0.076 ppb	0.610 ppb	90.872 %
Concentration per Run 2	-0.007 ppb	0.061 ppb	160.305 ppb	1,482.500 ppb	0.040 ppb	0.205 ppb	0.097 ppb	0.555 ppb	91.687 %
Concentration per Run 3	0.018 ppb	0.054 ppb	173.803 ppb	1,588.199 ppb	0.044 ppb	0.102 ppb	0.054 ppb	0.584 ppb	85.458 %
Concentration RSD	162.4 %	17.9 %	4.5 %	3.6 %	7.2 %	49.0 %	28.7 %	4.7 %	3.8 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.233 ppb	0.040 ppb	67.650 ppb	0.261 ppb	93.860 %	0.001 ppb	0.002 ppb	97.955 %	0.019 ppb
Concentration per Run 1	0.203 ppb	0.026 ppb	67.408 ppb	0.196 ppb	95.095 %	0.003 ppb	0.006 ppb	98.244 %	0.012 ppb
Concentration per Run 2	0.232 ppb	-0.016 ppb	65.669 ppb	0.259 ppb	94.919 %	0.002 ppb	0.000 ppb	98.999 %	0.018 ppb
Concentration per Run 3	0.264 ppb	0.110 ppb	69.872 ppb	0.326 ppb	91.566 %	0.000 ppb	0.001 ppb	96.621 %	0.026 ppb
Concentration RSD	13.1 %	161.1 %	3.1 %	25.0 %	2.1 %	82.9 %	154.9 %	1.2 %	37.7 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	66.125 ppb	102.496 %	102.528 %	0.074 ppb	0.177 ppb
Concentration per Run 1	66.764 ppb	102.304 %	104.200 %	0.052 ppb	0.184 ppb
Concentration per Run 2	64.556 ppb	105.132 %	103.804 %	0.087 ppb	0.174 ppb
Concentration per Run 3	67.054 ppb	100.051 %	99.580 %	0.083 ppb	0.172 ppb
Concentration RSD	2.1 %	2.5 %	2.5 %	26.1 %	3.5 %

Alpha ICPMSQ Data with SRD

3/5/2024 5:01:37 AM

Analysis index: 20
Analysis label: L2410277-02d10 6020TL
Analysis started at: 3/4/2024 6:46:50 AM
User name ALPHALAB\Metals-Instrument
Rack 1
Vial 2
Comment <Comment>

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	86.301 %	94.921 %	0.002 ppb	15,822.633 ppb	11,385.098 ppb	4.452 ppb	2,862.528 ppb	30,398.672 ppb	101.274 %
Concentration per Run 1	87.984 %	95.580 %	0.003 ppb	15,579.302 ppb	11,223.699 ppb	2.851 ppb	2,725.681 ppb	29,602.475 ppb	101.553 %
Concentration per Run 2	85.824 %	97.164 %	0.002 ppb	15,243.012 ppb	10,771.749 ppb	4.815 ppb	2,846.556 ppb	29,473.909 ppb	101.032 %
Concentration per Run 3	85.095 %	92.018 %	0.002 ppb	16,645.585 ppb	12,159.846 ppb	5.689 ppb	3,015.346 ppb	32,119.632 ppb	101.237 %
Concentration RSD	1.7 %	2.8 %	27.4 %	4.6 %	6.2 %	32.6 %	5.1 %	4.9 %	0.3 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.119 ppb	0.048 ppb	443.878 ppb	20.335 ppb	0.203 ppb	0.237 ppb	0.163 ppb	0.228 ppb	97.358 %
Concentration per Run 1	0.106 ppb	0.055 ppb	435.759 ppb	19.691 ppb	0.201 ppb	0.304 ppb	0.126 ppb	0.208 ppb	91.403 %
Concentration per Run 2	0.141 ppb	0.051 ppb	441.257 ppb	21.404 ppb	0.186 ppb	0.270 ppb	0.132 ppb	0.224 ppb	96.513 %
Concentration per Run 3	0.109 ppb	0.037 ppb	454.616 ppb	19.911 ppb	0.223 ppb	0.137 ppb	0.231 ppb	0.251 ppb	104.158 %
Concentration RSD	16.4 %	19.6 %	2.2 %	4.6 %	9.0 %	37.2 %	36.2 %	9.5 %	6.6 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.015 ppb	2.347 ppb	60.108 ppb	0.720 ppb	96.581 %	0.000 ppb	0.014 ppb	104.013 %	0.051 ppb
Concentration per Run 1	0.015 ppb	2.175 ppb	61.545 ppb	0.682 ppb	91.224 %	-0.001 ppb	0.019 ppb	98.945 %	0.049 ppb
Concentration per Run 2	0.002 ppb	2.224 ppb	58.226 ppb	0.754 ppb	97.559 %	-0.001 ppb	0.014 ppb	103.201 %	0.046 ppb
Concentration per Run 3	0.029 ppb	2.642 ppb	60.555 ppb	0.723 ppb	100.959 %	0.001 ppb	0.009 ppb	109.893 %	0.059 ppb
Concentration RSD	87.3 %	10.9 %	2.8 %	5.0 %	5.1 %	7,495.1 %	35.7 %	5.3 %	13.8 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	5.687 ppb	106.777 %	106.482 %	0.050 ppb	0.165 ppb
Concentration per Run 1	5.790 ppb	102.781 %	100.831 %	0.033 ppb	0.174 ppb
Concentration per Run 2	5.872 ppb	106.533 %	106.915 %	0.057 ppb	0.165 ppb
Concentration per Run 3	5.398 ppb	111.019 %	111.701 %	0.058 ppb	0.158 ppb
Concentration RSD	4.5 %	3.9 %	5.1 %	28.7 %	4.8 %

Alpha ICPMSQ Data with SRD

3/5/2024 5:01:37 AM

Analysis index: 21
Analysis label: L2410277-04d10 6020TL
Analysis started at: 3/4/2024 6:51:27 AM
User name ALPHALAB\Metals-Instrument
Rack 1
Vial 3
Comment <Comment>

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	88.957 %	101.847 %	0.006 ppb	12,320.457 ppb	9,026.570 ppb	11.168 ppb	2,412.707 ppb	19,760.780 ppb	104.823 %
Concentration per Run 1	91.131 %	97.559 %	0.007 ppb	12,620.662 ppb	9,047.338 ppb	12.291 ppb	2,449.249 ppb	20,110.364 ppb	105.413 %
Concentration per Run 2	88.813 %	102.309 %	0.005 ppb	12,156.246 ppb	8,952.699 ppb	9.695 ppb	2,373.019 ppb	19,356.310 ppb	104.772 %
Concentration per Run 3	86.926 %	105.673 %	0.007 ppb	12,184.464 ppb	9,079.672 ppb	11.518 ppb	2,415.854 ppb	19,815.665 ppb	104.283 %
Concentration RSD	2.4 %	4.0 %	13.2 %	2.1 %	0.7 %	11.9 %	1.6 %	1.9 %	0.5 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.340 ppb	0.261 ppb	3.837 ppb	32.701 ppb	0.078 ppb	0.077 ppb	0.202 ppb	0.872 ppb	98.734 %
Concentration per Run 1	0.355 ppb	0.252 ppb	3.646 ppb	30.885 ppb	0.075 ppb	0.103 ppb	0.191 ppb	0.853 ppb	95.504 %
Concentration per Run 2	0.365 ppb	0.277 ppb	3.743 ppb	33.813 ppb	0.097 ppb	0.038 ppb	0.200 ppb	0.941 ppb	94.138 %
Concentration per Run 3	0.298 ppb	0.252 ppb	4.123 ppb	33.404 ppb	0.063 ppb	0.091 ppb	0.214 ppb	0.821 ppb	106.558 %
Concentration RSD	10.6 %	5.4 %	6.6 %	4.8 %	22.3 %	44.5 %	5.8 %	7.1 %	6.9 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.131 ppb	1.426 ppb	75.618 ppb	0.833 ppb	101.424 %	0.001 ppb	0.004 ppb	108.863 %	0.355 ppb
Concentration per Run 1	0.140 ppb	1.424 ppb	75.681 ppb	0.812 ppb	96.826 %	0.000 ppb	0.006 ppb	103.063 %	0.383 ppb
Concentration per Run 2	0.117 ppb	1.262 ppb	74.649 ppb	0.870 ppb	102.278 %	0.000 ppb	0.007 ppb	106.084 %	0.357 ppb
Concentration per Run 3	0.135 ppb	1.591 ppb	76.523 ppb	0.817 ppb	105.169 %	0.002 ppb	0.001 ppb	117.442 %	0.324 ppb
Concentration RSD	9.3 %	11.5 %	1.2 %	3.9 %	4.2 %	192.3 %	73.5 %	7.0 %	8.4 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	9.118 ppb	110.003 %	110.428 %	0.038 ppb	0.238 ppb
Concentration per Run 1	9.215 ppb	106.076 %	104.518 %	0.022 ppb	0.250 ppb
Concentration per Run 2	8.926 ppb	109.453 %	109.249 %	0.048 ppb	0.228 ppb
Concentration per Run 3	9.213 ppb	114.481 %	117.519 %	0.046 ppb	0.237 ppb
Concentration RSD	1.8 %	3.8 %	6.0 %	37.0 %	4.6 %

Alpha ICPMSQ Data with SRD

3/5/2024 5:01:37 AM

Analysis index: 22
Analysis label: L2410277-07d50 6020TL
Analysis started at: 3/4/2024 6:56:04 AM
User name ALPHALAB\Metals-Instrument
Rack 1
Vial 4
Comment <Comment>

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	89.647 %	102.968 %	0.005 ppb	22,536.409 ppb	2,304.680 ppb	1.256 ppb	1,433.765 ppb	2,317.703 ppb	109.438 %
Concentration per Run 1	91.806 %	101.319 %	0.001 ppb	22,865.729 ppb	2,363.988 ppb	0.878 ppb	1,400.868 ppb	2,298.161 ppb	110.330 %
Concentration per Run 2	88.670 %	105.673 %	0.008 ppb	22,324.820 ppb	2,253.707 ppb	0.437 ppb	1,438.672 ppb	2,350.263 ppb	108.155 %
Concentration per Run 3	88.465 %	101.913 %	0.005 ppb	22,418.677 ppb	2,296.345 ppb	2.453 ppb	1,461.754 ppb	2,304.685 ppb	109.829 %
Concentration RSD	2.1 %	2.3 %	67.0 %	1.3 %	2.4 %	84.4 %	2.1 %	1.2 %	1.0 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.089 ppb	0.048 ppb	11.976 ppb	526.283 ppb	0.063 ppb	0.034 ppb	0.055 ppb	1.206 ppb	101.273 %
Concentration per Run 1	0.151 ppb	0.040 ppb	12.370 ppb	524.131 ppb	0.072 ppb	0.015 ppb	0.069 ppb	1.202 ppb	102.275 %
Concentration per Run 2	0.081 ppb	0.051 ppb	11.849 ppb	537.184 ppb	0.063 ppb	0.011 ppb	0.053 ppb	1.217 ppb	99.211 %
Concentration per Run 3	0.035 ppb	0.054 ppb	11.710 ppb	517.533 ppb	0.054 ppb	0.076 ppb	0.043 ppb	1.201 ppb	102.332 %
Concentration RSD	66.0 %	15.5 %	2.9 %	1.9 %	14.1 %	107.0 %	23.0 %	0.7 %	1.8 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.057 ppb	0.025 ppb	20.999 ppb	0.141 ppb	104.147 %	0.000 ppb	0.003 ppb	108.735 %	0.009 ppb
Concentration per Run 1	0.099 ppb	0.015 ppb	20.968 ppb	0.120 ppb	103.578 %	0.001 ppb	0.003 ppb	107.318 %	0.008 ppb
Concentration per Run 2	0.056 ppb	-0.003 ppb	21.093 ppb	0.127 ppb	104.676 %	0.000 ppb	0.004 ppb	109.916 %	0.004 ppb
Concentration per Run 3	0.015 ppb	0.062 ppb	20.937 ppb	0.177 ppb	104.188 %	-0.001 ppb	0.002 ppb	108.971 %	0.016 ppb
Concentration RSD	73.8 %	134.0 %	0.4 %	22.0 %	0.5 %	392.2 %	36.9 %	1.2 %	65.9 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	6.157 ppb	109.784 %	108.629 %	0.028 ppb	0.076 ppb
Concentration per Run 1	6.206 ppb	109.298 %	107.178 %	0.015 ppb	0.079 ppb
Concentration per Run 2	6.127 ppb	110.887 %	109.733 %	0.034 ppb	0.078 ppb
Concentration per Run 3	6.138 ppb	109.166 %	108.977 %	0.036 ppb	0.070 ppb
Concentration RSD	0.7 %	0.9 %	1.2 %	41.0 %	6.6 %

Alpha ICPMSQ Data with SRD

3/5/2024 5:01:37 AM

Analysis index:	23	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	L2410277-11d50 6020TL	Rack	1		
Analysis started at:	3/4/2024 7:00:41 AM	Vial	5		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	88.825 %	100.066 %	0.004 ppb	12,620.131 ppb	1,500.639 ppb	16.708 ppb	772.960 ppb	1,335.356 ppb	104.220 %
Concentration per Run 1	90.814 %	103.496 %	0.006 ppb	12,271.244 ppb	1,464.327 ppb	14.775 ppb	801.642 ppb	1,373.669 ppb	104.707 %
Concentration per Run 2	87.935 %	98.549 %	0.002 ppb	12,953.342 ppb	1,512.152 ppb	16.101 ppb	764.486 ppb	1,330.456 ppb	104.183 %
Concentration per Run 3	87.725 %	98.153 %	0.005 ppb	12,635.806 ppb	1,525.438 ppb	19.248 ppb	752.750 ppb	1,301.944 ppb	103.771 %
Concentration RSD	1.9 %	3.0 %	49.2 %	2.7 %	2.1 %	13.8 %	3.3 %	2.7 %	0.5 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.106 ppb	0.112 ppb	11.496 ppb	290.101 ppb	0.037 ppb	0.080 ppb	0.132 ppb	0.354 ppb	100.700 %
Concentration per Run 1	0.122 ppb	0.109 ppb	11.145 ppb	303.473 ppb	0.051 ppb	0.040 ppb	0.127 ppb	0.346 ppb	98.636 %
Concentration per Run 2	0.081 ppb	0.107 ppb	11.724 ppb	280.299 ppb	0.035 ppb	0.070 ppb	0.107 ppb	0.333 ppb	103.185 %
Concentration per Run 3	0.116 ppb	0.121 ppb	11.618 ppb	286.532 ppb	0.024 ppb	0.130 ppb	0.162 ppb	0.384 ppb	100.279 %
Concentration RSD	21.0 %	6.6 %	2.7 %	4.1 %	36.4 %	57.3 %	21.1 %	7.4 %	2.3 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.052 ppb	0.039 ppb	11.808 ppb	0.115 ppb	102.822 %	0.001 ppb	0.001 ppb	106.804 %	0.006 ppb
Concentration per Run 1	0.043 ppb	0.028 ppb	11.977 ppb	0.071 ppb	101.632 %	0.000 ppb	0.001 ppb	104.623 %	0.001 ppb
Concentration per Run 2	0.049 ppb	0.022 ppb	11.640 ppb	0.138 ppb	102.485 %	0.001 ppb	0.001 ppb	106.467 %	0.003 ppb
Concentration per Run 3	0.064 ppb	0.066 ppb	11.808 ppb	0.137 ppb	104.348 %	0.001 ppb	0.001 ppb	109.323 %	0.013 ppb
Concentration RSD	21.1 %	60.4 %	1.4 %	33.2 %	1.4 %	66.0 %	2.9 %	2.2 %	112.3 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	2.750 ppb	108.316 %	107.299 %	0.026 ppb	1.042 ppb
Concentration per Run 1	2.712 ppb	106.444 %	104.918 %	0.016 ppb	1.074 ppb
Concentration per Run 2	2.696 ppb	108.635 %	108.121 %	0.028 ppb	1.031 ppb
Concentration per Run 3	2.842 ppb	109.868 %	108.858 %	0.034 ppb	1.021 ppb
Concentration RSD	2.9 %	1.6 %	2.0 %	35.4 %	2.7 %

Alpha ICPMSQ Data with SRD

3/5/2024 5:01:37 AM

Analysis index:	24	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	L2410277-12d50 6020TL	Rack	1		
Analysis started at:	3/4/2024 7:05:20 AM	Vial	6		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	86.805 %	97.098 %	0.005 ppb	18,662.298 ppb	1,870.078 ppb	0.365 ppb	1,223.411 ppb	1,870.556 ppb	102.684 %
Concentration per Run 1	88.408 %	96.966 %	0.004 ppb	19,045.750 ppb	1,936.086 ppb	0.135 ppb	1,280.273 ppb	1,955.317 ppb	102.896 %
Concentration per Run 2	84.775 %	94.393 %	0.009 ppb	18,427.748 ppb	1,826.147 ppb	0.796 ppb	1,166.399 ppb	1,843.920 ppb	99.950 %
Concentration per Run 3	87.232 %	99.934 %	0.003 ppb	18,513.396 ppb	1,848.001 ppb	0.165 ppb	1,223.562 ppb	1,812.432 ppb	105.207 %
Concentration RSD	2.1 %	2.9 %	64.2 %	1.8 %	3.1 %	102.2 %	4.7 %	4.0 %	2.6 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.040 ppb	0.073 ppb	9.366 ppb	303.320 ppb	0.057 ppb	0.076 ppb	0.095 ppb	2.355 ppb	95.096 %
Concentration per Run 1	0.034 ppb	0.069 ppb	9.504 ppb	298.131 ppb	0.040 ppb	0.113 ppb	0.111 ppb	2.427 ppb	92.786 %
Concentration per Run 2	0.054 ppb	0.066 ppb	9.431 ppb	305.688 ppb	0.048 ppb	0.051 ppb	0.055 ppb	2.213 ppb	95.319 %
Concentration per Run 3	0.031 ppb	0.084 ppb	9.163 ppb	306.143 ppb	0.083 ppb	0.065 ppb	0.119 ppb	2.425 ppb	97.183 %
Concentration RSD	31.5 %	13.4 %	1.9 %	1.5 %	40.6 %	42.7 %	37.0 %	5.2 %	2.3 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.068 ppb	0.070 ppb	16.377 ppb	0.119 ppb	100.911 %	-0.001 ppb	0.002 ppb	102.872 %	0.009 ppb
Concentration per Run 1	0.023 ppb	0.028 ppb	16.883 ppb	0.087 ppb	100.631 %	-0.001 ppb	0.003 ppb	101.849 %	0.007 ppb
Concentration per Run 2	0.059 ppb	0.156 ppb	15.524 ppb	0.140 ppb	100.304 %	-0.001 ppb	0.000 ppb	98.879 %	0.008 ppb
Concentration per Run 3	0.122 ppb	0.026 ppb	16.724 ppb	0.130 ppb	101.798 %	0.000 ppb	0.003 ppb	107.888 %	0.013 ppb
Concentration RSD	74.3 %	106.7 %	4.5 %	23.6 %	0.8 %	41.2 %	103.3 %	4.5 %	36.3 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	4.067 ppb	105.735 %	103.917 %	0.022 ppb	0.080 ppb
Concentration per Run 1	4.444 ppb	103.551 %	101.647 %	0.011 ppb	0.085 ppb
Concentration per Run 2	3.969 ppb	104.800 %	101.939 %	0.026 ppb	0.079 ppb
Concentration per Run 3	3.789 ppb	108.853 %	108.164 %	0.028 ppb	0.076 ppb
Concentration RSD	8.3 %	2.6 %	3.5 %	42.2 %	5.4 %

Alpha ICPMSQ Data with SRD

3/5/2024 5:01:37 AM

Analysis index:	25	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	I2410288-04d10 6020TL	Rack	1		
Analysis started at:	3/4/2024 7:09:58 AM	Vial	7		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	82.151 %	96.900 %	0.006 ppb	39,116.231 ppb	2,943.933 ppb	1.420 ppb	1,108.574 ppb	8,372.205 ppb	96.464 %
Concentration per Run 1	82.143 %	98.945 %	0.011 ppb	40,167.539 ppb	3,033.748 ppb	1.532 ppb	1,111.343 ppb	8,299.686 ppb	95.938 %
Concentration per Run 2	82.890 %	94.591 %	0.004 ppb	38,164.395 ppb	2,895.967 ppb	1.043 ppb	1,133.785 ppb	8,153.557 ppb	96.616 %
Concentration per Run 3	81.419 %	97.164 %	0.003 ppb	39,016.759 ppb	2,902.083 ppb	1.686 ppb	1,080.593 ppb	8,663.371 ppb	96.840 %
Concentration RSD	0.9 %	2.3 %	73.1 %	2.6 %	2.6 %	23.7 %	2.4 %	3.1 %	0.5 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.015 ppb	0.026 ppb	515.030 ppb	1,477.802 ppb	0.019 ppb	0.073 ppb	0.059 ppb	0.238 ppb	92.714 %
Concentration per Run 1	0.006 ppb	0.012 ppb	534.804 ppb	1,523.937 ppb	0.022 ppb	0.076 ppb	0.064 ppb	0.254 ppb	92.836 %
Concentration per Run 2	0.001 ppb	0.017 ppb	504.057 ppb	1,467.411 ppb	0.027 ppb	0.095 ppb	0.078 ppb	0.226 ppb	88.560 %
Concentration per Run 3	0.039 ppb	0.049 ppb	506.229 ppb	1,442.058 ppb	0.008 ppb	0.049 ppb	0.034 ppb	0.234 ppb	96.747 %
Concentration RSD	134.7 %	75.0 %	3.3 %	2.8 %	51.8 %	32.0 %	38.4 %	6.1 %	4.4 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.896 ppb	0.025 ppb	49.950 ppb	0.089 ppb	94.278 %	-0.001 ppb	0.000 ppb	98.415 %	0.011 ppb
Concentration per Run 1	1.028 ppb	0.058 ppb	51.705 ppb	0.082 ppb	93.100 %	-0.001 ppb	0.001 ppb	98.098 %	0.013 ppb
Concentration per Run 2	0.765 ppb	-0.014 ppb	48.190 ppb	0.109 ppb	93.236 %	0.001 ppb	0.000 ppb	96.614 %	0.012 ppb
Concentration per Run 3	0.894 ppb	0.032 ppb	49.955 ppb	0.075 ppb	96.496 %	-0.001 ppb	0.001 ppb	100.533 %	0.007 ppb
Concentration RSD	14.7 %	143.1 %	3.5 %	20.8 %	2.0 %	167.2 %	159.4 %	2.0 %	31.7 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	54.711 ppb	103.334 %	101.726 %	0.021 ppb	0.042 ppb
Concentration per Run 1	57.010 ppb	101.119 %	99.439 %	0.011 ppb	0.049 ppb
Concentration per Run 2	51.972 ppb	102.917 %	99.936 %	0.026 ppb	0.039 ppb
Concentration per Run 3	55.151 ppb	105.966 %	105.803 %	0.026 ppb	0.037 ppb
Concentration RSD	4.7 %	2.4 %	3.5 %	40.6 %	15.4 %

Alpha ICPMSQ Data with SRD

3/5/2024 5:01:37 AM

Analysis index:	26	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	I2410288-05d10 6020TL	Rack	1		
Analysis started at:	3/4/2024 7:14:37 AM	Vial	8		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	85.907 %	95.185 %	0.000 ppb	4,188.961 ppb	1,493.342 ppb	-1.586 ppb	774.807 ppb	15,362.092 ppb	93.266 %
Concentration per Run 1	86.933 %	87.863 %	-0.004 ppb	4,697.898 ppb	1,661.019 ppb	-1.380 ppb	806.954 ppb	16,951.356 ppb	93.267 %
Concentration per Run 2	86.215 %	97.955 %	0.002 ppb	3,896.756 ppb	1,379.334 ppb	-1.743 ppb	717.436 ppb	14,252.714 ppb	93.762 %
Concentration per Run 3	84.572 %	99.736 %	0.000 ppb	3,972.229 ppb	1,439.673 ppb	-1.635 ppb	800.032 ppb	14,882.208 ppb	92.770 %
Concentration RSD	1.4 %	6.7 %	785.1 %	10.6 %	9.9 %	11.8 %	6.4 %	9.2 %	0.5 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.111 ppb	0.050 ppb	17.835 ppb	83.545 ppb	0.209 ppb	0.503 ppb	1.344 ppb	2.869 ppb	92.890 %
Concentration per Run 1	0.089 ppb	0.071 ppb	19.415 ppb	92.112 ppb	0.228 ppb	0.576 ppb	1.516 ppb	3.088 ppb	84.012 %
Concentration per Run 2	0.115 ppb	0.016 ppb	16.434 ppb	86.248 ppb	0.210 ppb	0.420 ppb	1.277 ppb	2.785 ppb	95.200 %
Concentration per Run 3	0.129 ppb	0.063 ppb	17.657 ppb	72.274 ppb	0.189 ppb	0.515 ppb	1.239 ppb	2.732 ppb	99.457 %
Concentration RSD	18.6 %	59.1 %	8.4 %	12.2 %	9.3 %	15.6 %	11.2 %	6.7 %	8.6 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.139 ppb	1.691 ppb	92.235 ppb	0.311 ppb	95.888 %	0.000 ppb	0.108 ppb	96.203 %	0.106 ppb
Concentration per Run 1	0.149 ppb	1.903 ppb	103.012 ppb	0.289 ppb	89.849 %	0.000 ppb	0.124 ppb	92.389 %	0.113 ppb
Concentration per Run 2	0.134 ppb	1.359 ppb	83.906 ppb	0.304 ppb	96.501 %	0.000 ppb	0.099 ppb	92.697 %	0.092 ppb
Concentration per Run 3	0.134 ppb	1.812 ppb	89.786 ppb	0.338 ppb	101.315 %	0.001 ppb	0.100 ppb	103.524 %	0.113 ppb
Concentration RSD	6.3 %	17.2 %	10.6 %	8.1 %	6.0 %	338.7 %	13.4 %	6.6 %	11.7 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	14.883 ppb	99.739 %	97.417 %	0.020 ppb	0.044 ppb
Concentration per Run 1	15.994 ppb	93.518 %	91.093 %	0.014 ppb	0.049 ppb
Concentration per Run 2	14.179 ppb	100.442 %	96.298 %	0.023 ppb	0.043 ppb
Concentration per Run 3	14.477 ppb	105.258 %	104.859 %	0.023 ppb	0.041 ppb
Concentration RSD	6.5 %	5.9 %	7.1 %	26.5 %	9.1 %

Alpha ICPMSQ Data with SRD

3/5/2024 5:01:37 AM

Analysis index:	27	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	I2410288-09d10 6020TL	Rack	1		
Analysis started at:	3/4/2024 7:19:15 AM	Vial	9		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	81.959 %	96.042 %	0.004 ppb	33,295.029 ppb	2,367.358 ppb	-0.923 ppb	660.201 ppb	16,644.790 ppb	99.212 %
Concentration per Run 1	84.012 %	93.404 %	0.006 ppb	34,578.930 ppb	2,430.198 ppb	-0.815 ppb	701.174 ppb	17,139.421 ppb	100.832 %
Concentration per Run 2	81.429 %	95.976 %	0.002 ppb	32,486.136 ppb	2,362.220 ppb	-1.336 ppb	627.359 ppb	16,375.756 ppb	99.183 %
Concentration per Run 3	80.436 %	98.747 %	0.004 ppb	32,820.021 ppb	2,309.655 ppb	-0.617 ppb	652.070 ppb	16,419.192 ppb	97.622 %
Concentration RSD	2.3 %	2.8 %	55.7 %	3.4 %	2.6 %	40.3 %	5.7 %	2.6 %	1.6 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.003 ppb	0.006 ppb	563.993 ppb	1,450.247 ppb	0.027 ppb	0.224 ppb	0.000 ppb	0.149 ppb	91.820 %
Concentration per Run 1	0.018 ppb	0.002 ppb	579.305 ppb	1,523.997 ppb	0.026 ppb	0.284 ppb	-0.010 ppb	0.189 ppb	84.625 %
Concentration per Run 2	-0.001 ppb	0.003 ppb	539.557 ppb	1,382.825 ppb	0.025 ppb	0.209 ppb	0.009 ppb	0.145 ppb	95.546 %
Concentration per Run 3	-0.008 ppb	0.012 ppb	573.118 ppb	1,443.921 ppb	0.029 ppb	0.179 ppb	0.001 ppb	0.112 ppb	95.289 %
Concentration RSD	519.1 %	90.0 %	3.8 %	4.9 %	6.3 %	24.2 %	10,592.7 %	26.1 %	6.8 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.910 ppb	0.103 ppb	59.253 ppb	0.149 ppb	95.107 %	0.000 ppb	0.000 ppb	98.873 %	0.001 ppb
Concentration per Run 1	1.015 ppb	0.117 ppb	61.967 ppb	0.114 ppb	89.862 %	0.001 ppb	0.000 ppb	95.540 %	0.003 ppb
Concentration per Run 2	0.795 ppb	0.122 ppb	57.590 ppb	0.158 ppb	97.181 %	0.000 ppb	0.000 ppb	98.294 %	-0.002 ppb
Concentration per Run 3	0.921 ppb	0.069 ppb	58.202 ppb	0.174 ppb	98.277 %	0.000 ppb	0.000 ppb	102.784 %	0.001 ppb
Concentration RSD	12.1 %	28.3 %	4.0 %	20.9 %	4.8 %	94.2 %	0.0 %	3.7 %	308.6 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	36.813 ppb	103.321 %	101.248 %	0.015 ppb	0.028 ppb
Concentration per Run 1	36.719 ppb	99.177 %	95.021 %	0.007 ppb	0.028 ppb
Concentration per Run 2	36.654 ppb	104.647 %	104.587 %	0.017 ppb	0.028 ppb
Concentration per Run 3	37.065 ppb	106.137 %	104.137 %	0.021 ppb	0.027 ppb
Concentration RSD	0.6 %	3.5 %	5.3 %	45.8 %	1.6 %

Alpha ICPMSQ Data with SRD

3/5/2024 5:01:37 AM

Analysis index: 28
Analysis label: L2410274-01d10 6020TS
Analysis started at: 3/4/2024 7:23:54 AM
User name ALPHALAB\Metals-Instrument
Rack 1
Vial 25
Comment <Comment>

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	93.198 %	93.667 %	0.326 ppb	83.323 ppb	1,419.482 ppb	5,796.002 ppb	522.379 ppb	6,619.206 ppb	134.359 %
Concentration per Run 1	99.382 %	89.248 %	0.307 ppb	87.811 ppb	1,475.814 ppb	5,912.444 ppb	543.487 ppb	7,050.993 ppb	136.535 %
Concentration per Run 2	92.754 %	93.601 %	0.318 ppb	81.940 ppb	1,398.823 ppb	5,874.300 ppb	541.148 ppb	6,479.209 ppb	134.194 %
Concentration per Run 3	87.459 %	98.153 %	0.353 ppb	80.219 ppb	1,383.810 ppb	5,601.263 ppb	482.503 ppb	6,327.418 ppb	132.347 %
Concentration RSD	6.4 %	4.8 %	7.3 %	4.8 %	3.5 %	2.9 %	6.6 %	5.8 %	1.6 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	12.976 ppb	12.130 ppb	175.147 ppb	14,317.708 ppb	3.885 ppb	7.966 ppb	15.751 ppb	70.789 ppb	92.726 %
Concentration per Run 1	14.112 ppb	12.705 ppb	186.431 ppb	15,427.112 ppb	4.257 ppb	8.722 ppb	17.647 ppb	77.740 ppb	81.157 %
Concentration per Run 2	12.811 ppb	12.036 ppb	170.472 ppb	13,996.566 ppb	3.714 ppb	8.058 ppb	15.018 ppb	68.951 ppb	97.191 %
Concentration per Run 3	12.007 ppb	11.648 ppb	168.539 ppb	13,529.445 ppb	3.684 ppb	7.120 ppb	14.587 ppb	65.676 ppb	99.831 %
Concentration RSD	8.2 %	4.4 %	5.6 %	6.9 %	8.3 %	10.1 %	10.5 %	8.8 %	10.9 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	7.927 ppb	1.414 ppb	16.050 ppb	0.491 ppb	95.076 %	0.029 ppb	0.148 ppb	96.045 %	0.497 ppb
Concentration per Run 1	8.638 ppb	1.783 ppb	17.013 ppb	0.528 ppb	85.494 %	0.032 ppb	0.178 ppb	84.265 %	0.567 ppb
Concentration per Run 2	7.401 ppb	1.111 ppb	15.610 ppb	0.415 ppb	99.772 %	0.030 ppb	0.129 ppb	100.624 %	0.473 ppb
Concentration per Run 3	7.741 ppb	1.347 ppb	15.527 ppb	0.531 ppb	99.961 %	0.025 ppb	0.138 ppb	103.246 %	0.450 ppb
Concentration RSD	8.1 %	24.1 %	5.2 %	13.4 %	8.7 %	13.1 %	17.5 %	10.7 %	12.5 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	37.566 ppb	99.548 %	98.508 %	0.098 ppb	55.180 ppb
Concentration per Run 1	41.177 ppb	90.219 %	86.926 %	0.099 ppb	61.039 ppb
Concentration per Run 2	35.320 ppb	104.024 %	102.437 %	0.098 ppb	52.894 ppb
Concentration per Run 3	36.202 ppb	104.403 %	106.161 %	0.097 ppb	51.607 ppb
Concentration RSD	8.4 %	8.1 %	10.4 %	0.8 %	9.3 %

Alpha ICPMSQ Data with SRD

3/5/2024 5:01:37 AM

Analysis index: 29
Analysis label: CCV
Analysis started at: 3/4/2024 7:28:30 AM
User name ALPHALAB\Metals-Instrument
Rack 0
Vial 9
Comment <Comment>

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	80.744 %	96.702 %	62.555 ppb	5,835.172 ppb	5,823.479 ppb	55.169 ppb	5,810.772 ppb	5,877.111 ppb	104.545 %
Concentration per Run 1	82.155 %	88.258 %	62.395 ppb	6,204.103 ppb	6,120.987 ppb	58.780 ppb	6,125.177 ppb	6,332.643 ppb	105.308 %
Concentration per Run 2	81.171 %	98.549 %	62.918 ppb	5,817.705 ppb	5,809.362 ppb	54.725 ppb	5,719.692 ppb	5,711.991 ppb	104.144 %
Concentration per Run 3	78.908 %	103.298 %	62.350 ppb	5,483.709 ppb	5,540.086 ppb	52.003 ppb	5,587.448 ppb	5,586.699 ppb	104.182 %
Recovery Percentage 1			104.258 %	97.253 %	97.058 %	91.949 %	96.846 %	97.952 %	
Concentration RSD	2.1 %	8.0 %	0.5 %	6.2 %	5.0 %	6.2 %	4.8 %	6.8 %	0.6 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	60.099 ppb	60.041 ppb	59.871 ppb	6,163.321 ppb	62.814 ppb	63.619 ppb	64.683 ppb	61.162 ppb	92.520 %
Concentration per Run 1	64.585 ppb	65.087 ppb	64.050 ppb	6,723.472 ppb	68.922 ppb	69.927 ppb	70.634 ppb	66.047 ppb	84.479 %
Concentration per Run 2	59.522 ppb	59.126 ppb	60.091 ppb	6,137.008 ppb	61.736 ppb	61.405 ppb	63.604 ppb	59.643 ppb	94.329 %
Concentration per Run 3	56.189 ppb	55.911 ppb	55.474 ppb	5,629.482 ppb	57.783 ppb	59.526 ppb	59.811 ppb	57.796 ppb	98.753 %
Recovery Percentage 1	100.165 %	100.069 %	99.786 %	102.722 %	104.690 %	106.032 %	107.805 %	101.937 %	
Concentration RSD	7.0 %	7.8 %	7.2 %	8.9 %	9.0 %	8.7 %	8.5 %	7.1 %	7.9 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	62.308 ppb	59.417 ppb	59.275 ppb	59.440 ppb	97.576 %	62.858 ppb	63.440 ppb	98.673 %	61.902 ppb
Concentration per Run 1	67.500 ppb	60.237 ppb	61.104 ppb	61.135 ppb	91.979 %	66.071 ppb	67.085 ppb	92.741 %	63.332 ppb
Concentration per Run 2	60.808 ppb	60.258 ppb	58.963 ppb	58.297 ppb	100.601 %	61.245 ppb	61.188 ppb	102.576 %	60.743 ppb
Concentration per Run 3	58.615 ppb	57.756 ppb	57.759 ppb	58.887 ppb	100.147 %	61.257 ppb	62.046 ppb	100.701 %	61.630 ppb
Recovery Percentage 1	103.846 %	99.028 %	98.792 %	99.066 %		104.763 %	105.733 %		103.170 %
Concentration RSD	7.4 %	2.4 %	2.9 %	2.5 %	5.0 %	4.4 %	5.0 %	5.3 %	2.1 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	62.187 ppb	102.624 %	101.376 %	64.270 ppb	64.700 ppb
Concentration per Run 1	63.429 ppb	96.346 %	93.639 %	66.804 ppb	68.879 ppb
Concentration per Run 2	60.805 ppb	106.063 %	105.329 %	61.528 ppb	62.102 ppb
Concentration per Run 3	62.326 ppb	105.464 %	105.160 %	64.477 ppb	63.119 ppb
Recovery Percentage 1	103.645 %			107.116 %	107.834 %
Concentration RSD	2.1 %	5.3 %	6.6 %	4.1 %	5.6 %

Alpha ICPMSQ Data with SRD

3/5/2024 5:01:37 AM

Analysis index:	30	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	CCB	Rack	0		
Analysis started at:	3/4/2024 7:33:12 AM	Vial	10		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	80.316 %	93.602 %	0.010 ppb	0.704 ppb	0.595 ppb	-2.675 ppb	-3.865 ppb	0.799 ppb	98.059 %
Concentration per Run 1	81.298 %	87.071 %	0.008 ppb	1.985 ppb	0.749 ppb	-2.663 ppb	-2.509 ppb	1.936 ppb	98.177 %
Concentration per Run 2	81.017 %	99.934 %	0.006 ppb	-0.336 ppb	0.792 ppb	-2.890 ppb	0.079 ppb	-0.994 ppb	99.423 %
Concentration per Run 3	78.632 %	93.799 %	0.016 ppb	0.464 ppb	0.243 ppb	-2.473 ppb	-9.164 ppb	1.454 ppb	96.578 %
Recovery Percentage 1			2.051 %	0.704 %	0.850 %	-26.751 %	-3.865 %	0.799 %	
Concentration RSD	1.8 %	6.9 %	50.6 %	167.4 %	51.4 %	7.8 %	123.4 %	196.8 %	1.5 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.014 ppb	-0.003 ppb	0.008 ppb	17.038 ppb	0.000 ppb	0.010 ppb	0.012 ppb	0.256 ppb	91.744 %
Concentration per Run 1	0.003 ppb	-0.002 ppb	0.020 ppb	17.171 ppb	0.003 ppb	-0.003 ppb	0.052 ppb	0.313 ppb	87.468 %
Concentration per Run 2	-0.015 ppb	-0.015 ppb	-0.011 ppb	15.606 ppb	-0.002 ppb	-0.009 ppb	-0.003 ppb	0.199 ppb	94.517 %
Concentration per Run 3	-0.029 ppb	0.009 ppb	0.015 ppb	18.337 ppb	-0.002 ppb	0.041 ppb	-0.013 ppb	0.257 ppb	93.248 %
Recovery Percentage 1	-0.274 %	-0.285 %	0.795 %	34.076 %	-0.057 %	0.485 %	1.200 %	5.127 %	
Concentration RSD	114.0 %	412.5 %	208.5 %	8.0 %	1,150.9 %	280.4 %	292.3 %	22.1 %	4.1 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.059 ppb	0.379 ppb	0.008 ppb	0.874 ppb	99.053 %	0.008 ppb	0.006 ppb	99.317 %	0.038 ppb
Concentration per Run 1	0.016 ppb	0.355 ppb	0.009 ppb	0.883 ppb	97.361 %	0.013 ppb	0.005 ppb	95.334 %	0.024 ppb
Concentration per Run 2	0.061 ppb	0.374 ppb	0.001 ppb	0.904 ppb	100.079 %	0.007 ppb	0.009 ppb	101.582 %	0.042 ppb
Concentration per Run 3	0.101 ppb	0.408 ppb	0.015 ppb	0.835 ppb	99.720 %	0.006 ppb	0.003 ppb	101.034 %	0.047 ppb
Recovery Percentage 1	11.850 %	7.581 %	0.084 %	43.707 %		2.092 %	2.889 %		0.947 %
Concentration RSD	71.8 %	7.1 %	82.0 %	4.1 %	1.5 %	48.7 %	54.7 %	3.5 %	32.3 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	0.019 ppb	103.072 %	101.312 %	0.412 ppb	0.044 ppb
Concentration per Run 1	0.006 ppb	99.773 %	97.194 %	0.347 ppb	0.052 ppb
Concentration per Run 2	0.031 ppb	105.326 %	104.061 %	0.477 ppb	0.042 ppb
Concentration per Run 3	0.021 ppb	104.117 %	102.682 %	0.413 ppb	0.036 ppb
Recovery Percentage 1	3.799 %			41.234 %	4.354 %
Concentration RSD	65.5 %	2.8 %	3.6 %	15.8 %	18.8 %

Alpha ICPMSQ Data with SRD

3/5/2024 5:01:37 AM

Analysis index:	31	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	WG1890528-1d10 6020TS	Rack	1		
Analysis started at:	3/4/2024 7:43:04 AM	Vial	10		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	83.605 %	95.251 %	0.005 ppb	1.135 ppb	2.336 ppb	-0.906 ppb	-3.560 ppb	7.453 ppb	102.255 %
Concentration per Run 1	84.247 %	96.570 %	0.006 ppb	-0.912 ppb	1.439 ppb	-0.636 ppb	-7.519 ppb	3.845 ppb	102.369 %
Concentration per Run 2	83.471 %	92.216 %	0.005 ppb	2.555 ppb	2.544 ppb	-1.037 ppb	-6.576 ppb	10.026 ppb	102.126 %
Concentration per Run 3	83.098 %	96.966 %	0.005 ppb	1.763 ppb	3.027 ppb	-1.044 ppb	3.414 ppb	8.488 ppb	102.269 %
Concentration RSD	0.7 %	2.8 %	9.8 %	160.0 %	34.8 %	25.8 %	170.2 %	43.2 %	0.1 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.010 ppb	0.036 ppb	0.085 ppb	10.174 ppb	0.003 ppb	0.018 ppb	0.035 ppb	0.169 ppb	94.660 %
Concentration per Run 1	-0.008 ppb	0.019 ppb	0.115 ppb	9.792 ppb	0.003 ppb	0.004 ppb	0.052 ppb	0.209 ppb	93.563 %
Concentration per Run 2	-0.001 ppb	0.045 ppb	0.077 ppb	9.612 ppb	0.000 ppb	0.046 ppb	0.028 ppb	0.135 ppb	94.896 %
Concentration per Run 3	-0.022 ppb	0.043 ppb	0.063 ppb	11.120 ppb	0.006 ppb	0.003 ppb	0.024 ppb	0.162 ppb	95.521 %
Concentration RSD	107.8 %	39.6 %	31.4 %	8.1 %	113.1 %	138.4 %	44.0 %	22.0 %	1.1 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.026 ppb	0.070 ppb	0.008 ppb	0.158 ppb	101.563 %	0.002 ppb	0.002 ppb	105.425 %	0.012 ppb
Concentration per Run 1	0.025 ppb	0.073 ppb	0.007 ppb	0.126 ppb	100.843 %	0.001 ppb	0.003 ppb	101.553 %	0.006 ppb
Concentration per Run 2	0.033 ppb	0.067 ppb	0.010 ppb	0.140 ppb	100.669 %	0.004 ppb	0.001 ppb	106.468 %	0.015 ppb
Concentration per Run 3	0.020 ppb	0.071 ppb	0.007 ppb	0.209 ppb	103.178 %	0.001 ppb	0.001 ppb	108.253 %	0.014 ppb
Concentration RSD	26.4 %	4.5 %	16.2 %	28.3 %	1.4 %	98.8 %	88.9 %	3.3 %	41.9 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	0.013 ppb	106.252 %	105.621 %	0.065 ppb	0.038 ppb
Concentration per Run 1	0.015 ppb	104.016 %	101.437 %	0.052 ppb	0.048 ppb
Concentration per Run 2	-0.006 ppb	105.747 %	105.149 %	0.072 ppb	0.034 ppb
Concentration per Run 3	0.028 ppb	108.992 %	110.278 %	0.070 ppb	0.032 ppb
Concentration RSD	139.0 %	2.4 %	4.2 %	17.1 %	23.1 %

Alpha ICPMSQ Data with SRD

3/5/2024 5:01:37 AM

Analysis index:	32	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	xWG1890528-2d10 6020TS	Rack	1		
Analysis started at:	3/4/2024 7:47:44 AM	Vial	11		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	106.656 %	125.000 %	125.281 ppb	1,174.156 ppb	1,014.765 ppb	3,095.666 ppb	782.420 ppb	3,889.601 ppb	106.500 %
Concentration per Run 1	107.249 %	126.056 %	124.815 ppb	1,163.207 ppb	1,000.730 ppb	3,040.280 ppb	762.932 ppb	3,757.529 ppb	105.867 %
Concentration per Run 2	106.800 %	122.296 %	125.303 ppb	1,153.487 ppb	1,007.871 ppb	3,033.968 ppb	787.268 ppb	3,928.698 ppb	106.485 %
Concentration per Run 3	105.921 %	126.650 %	125.725 ppb	1,205.774 ppb	1,035.694 ppb	3,212.749 ppb	797.060 ppb	3,982.575 ppb	107.149 %
Concentration RSD	0.6 %	1.9 %	0.4 %	2.4 %	1.8 %	3.3 %	2.2 %	3.0 %	0.6 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	81.164 ppb	149.275 ppb	438.946 ppb	4,448.095 ppb	71.878 ppb	277.555 ppb	183.442 ppb	139.834 ppb	96.452 %
Concentration per Run 1	82.796 ppb	153.982 ppb	448.410 ppb	4,618.085 ppb	75.186 ppb	289.028 ppb	190.972 ppb	142.434 ppb	91.735 %
Concentration per Run 2	80.253 ppb	145.424 ppb	420.996 ppb	4,312.518 ppb	70.132 ppb	274.273 ppb	181.256 ppb	140.393 ppb	95.920 %
Concentration per Run 3	80.442 ppb	148.420 ppb	447.432 ppb	4,413.681 ppb	70.315 ppb	269.364 ppb	178.099 ppb	136.674 ppb	101.702 %
Concentration RSD	1.7 %	2.9 %	3.5 %	3.5 %	4.0 %	3.7 %	3.7 %	2.1 %	5.2 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	278.784 ppb	148.704 ppb	122.656 ppb	124.558 ppb	100.607 %	72.271 ppb	197.879 ppb	107.567 %	186.448 ppb
Concentration per Run 1	291.066 ppb	153.532 ppb	123.801 ppb	125.693 ppb	96.562 %	76.072 ppb	209.568 ppb	97.941 %	201.260 ppb
Concentration per Run 2	272.221 ppb	142.747 ppb	117.089 ppb	121.989 ppb	101.993 %	71.872 ppb	194.374 ppb	105.671 %	182.865 ppb
Concentration per Run 3	273.065 ppb	149.833 ppb	127.080 ppb	125.992 ppb	103.265 %	68.868 ppb	189.697 ppb	119.089 %	175.219 ppb
Concentration RSD	3.8 %	3.7 %	4.2 %	1.8 %	3.5 %	5.0 %	5.3 %	9.9 %	7.2 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	277.427 ppb	108.454 %	107.839 %	199.971 ppb	85.210 ppb
Concentration per Run 1	289.935 ppb	103.446 %	101.573 %	206.465 ppb	90.283 ppb
Concentration per Run 2	272.363 ppb	107.529 %	106.085 %	200.693 ppb	84.820 ppb
Concentration per Run 3	269.984 ppb	114.386 %	115.857 %	192.754 ppb	80.527 ppb
Concentration RSD	3.9 %	5.1 %	6.8 %	3.4 %	5.7 %

Alpha ICPMSQ Data with SRD

3/5/2024 5:01:37 AM

Analysis index: 33
Analysis label: WG1890528-3d10 6020TS
Analysis started at: 3/4/2024 7:52:24 AM
User name ALPHALAB\Metals-Instrument
Rack 1
Vial 13
Comment <Comment>

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	94.143 %	113.786 %	10.598 ppb	2,097.065 ppb	4,303.529 ppb	28,600.160 ppb	2,966.013 ppb	2,278.299 ppb	153.287 %
Concentration per Run 1	96.133 %	106.464 %	10.516 ppb	2,207.338 ppb	4,485.179 ppb	28,640.674 ppb	3,071.361 ppb	2,471.075 ppb	154.068 %
Concentration per Run 2	93.623 %	112.797 %	10.630 ppb	2,037.746 ppb	4,169.033 ppb	27,866.606 ppb	2,816.512 ppb	2,196.578 ppb	154.030 %
Concentration per Run 3	92.672 %	122.098 %	10.649 ppb	2,046.112 ppb	4,256.376 ppb	29,293.200 ppb	3,010.165 ppb	2,167.243 ppb	151.764 %
Concentration RSD	1.9 %	6.9 %	0.7 %	4.6 %	3.8 %	2.5 %	4.5 %	7.4 %	0.9 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	155.153 ppb	94.624 ppb	546.254 ppb	103,705.602 ppb	119.379 ppb	123.930 ppb	107.509 ppb	159.295 ppb	108.592 %
Concentration per Run 1	159.833 ppb	98.571 ppb	549.918 ppb	107,680.475 ppb	125.210 ppb	130.240 ppb	115.347 ppb	169.274 ppb	101.233 %
Concentration per Run 2	152.367 ppb	94.835 ppb	545.767 ppb	103,354.451 ppb	119.282 ppb	124.050 ppb	106.409 ppb	155.840 ppb	107.393 %
Concentration per Run 3	153.260 ppb	90.467 ppb	543.076 ppb	100,081.879 ppb	113.644 ppb	117.500 ppb	100.773 ppb	152.770 ppb	117.151 %
Concentration RSD	2.6 %	4.3 %	0.6 %	3.7 %	4.8 %	5.1 %	6.8 %	5.5 %	7.4 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	45.530 ppb	23.113 ppb	207.746 ppb	207.427 ppb	107.057 %	10.716 ppb	11.651 ppb	108.888 %	90.101 ppb
Concentration per Run 1	47.267 ppb	23.480 ppb	216.725 ppb	214.113 ppb	98.993 %	11.552 ppb	12.375 ppb	99.963 %	96.054 ppb
Concentration per Run 2	44.705 ppb	22.185 ppb	199.268 ppb	202.822 ppb	109.367 %	10.413 ppb	11.173 ppb	111.246 %	85.728 ppb
Concentration per Run 3	44.616 ppb	23.674 ppb	207.247 ppb	205.346 ppb	112.811 %	10.183 ppb	11.405 ppb	115.455 %	88.521 ppb
Concentration RSD	3.3 %	3.5 %	4.2 %	2.9 %	6.7 %	6.8 %	5.5 %	7.4 %	5.9 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	488.019 ppb	113.900 %	114.679 %	24.062 ppb	148.369 ppb
Concentration per Run 1	510.668 ppb	107.101 %	105.843 %	25.336 ppb	159.480 ppb
Concentration per Run 2	463.191 ppb	112.610 %	115.219 %	23.868 ppb	144.543 ppb
Concentration per Run 3	490.198 ppb	121.988 %	122.976 %	22.981 ppb	141.084 ppb
Concentration RSD	4.9 %	6.6 %	7.5 %	4.9 %	6.6 %

Alpha ICPMSQ Data with SRD

3/5/2024 5:01:37 AM

Analysis index: 34
Analysis label: WG1890528-5d10 6020TS
Analysis started at: 3/4/2024 7:57:00 AM
User name ALPHALAB\Metals-Instrument
Rack 1
Vial 15
Comment <Comment>

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	93.639 %	115.040 %	47.902 ppb	4,931.297 ppb	7,719.196 ppb	25,433.503 ppb	6,454.282 ppb	5,150.293 ppb	144.266 %
Concentration per Run 1	94.600 %	102.111 %	47.811 ppb	5,555.257 ppb	8,549.936 ppb	27,295.459 ppb	7,167.298 ppb	5,665.156 ppb	143.063 %
Concentration per Run 2	92.964 %	118.140 %	47.693 ppb	4,580.481 ppb	7,299.040 ppb	24,041.078 ppb	5,980.875 ppb	4,821.390 ppb	143.849 %
Concentration per Run 3	93.353 %	124.868 %	48.203 ppb	4,658.152 ppb	7,308.611 ppb	24,963.971 ppb	6,214.672 ppb	4,964.333 ppb	145.887 %
Concentration RSD	0.9 %	10.2 %	0.6 %	11.0 %	9.3 %	6.6 %	9.7 %	8.8 %	1.0 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	101.589 ppb	91.269 ppb	411.098 ppb	90,694.533 ppb	67.199 ppb	73.636 ppb	96.120 ppb	114.122 ppb	109.127 %
Concentration per Run 1	113.712 ppb	102.725 ppb	459.201 ppb	101,788.528 ppb	76.239 ppb	82.267 ppb	108.011 ppb	126.811 ppb	97.152 %
Concentration per Run 2	95.555 ppb	85.200 ppb	377.912 ppb	85,133.621 ppb	63.102 ppb	70.723 ppb	91.411 ppb	108.297 ppb	111.512 %
Concentration per Run 3	95.501 ppb	85.883 ppb	396.181 ppb	85,161.449 ppb	62.256 ppb	67.919 ppb	88.937 ppb	107.259 ppb	118.718 %
Concentration RSD	10.3 %	10.9 %	10.4 %	10.6 %	11.7 %	10.3 %	10.8 %	9.6 %	10.1 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	66.969 ppb	52.891 ppb	56.893 ppb	56.015 ppb	107.171 %	0.593 ppb	52.775 ppb	111.278 %	51.869 ppb
Concentration per Run 1	74.290 ppb	55.906 ppb	60.866 ppb	60.832 ppb	98.341 %	0.646 ppb	57.888 ppb	99.740 %	56.818 ppb
Concentration per Run 2	63.035 ppb	49.511 ppb	53.043 ppb	53.954 ppb	109.542 %	0.571 ppb	50.864 ppb	112.867 %	48.757 ppb
Concentration per Run 3	63.581 ppb	53.257 ppb	56.770 ppb	53.258 ppb	113.630 %	0.562 ppb	49.575 ppb	121.229 %	50.033 ppb
Concentration RSD	9.5 %	6.1 %	6.9 %	7.5 %	7.4 %	7.8 %	8.5 %	9.7 %	8.4 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	100.580 ppb	111.859 %	112.216 %	51.252 ppb	81.795 ppb
Concentration per Run 1	108.820 ppb	102.009 %	101.077 %	55.100 ppb	90.494 ppb
Concentration per Run 2	95.781 ppb	113.417 %	113.254 %	49.966 ppb	79.196 ppb
Concentration per Run 3	97.140 ppb	120.151 %	122.318 %	48.690 ppb	75.696 ppb
Concentration RSD	7.1 %	8.2 %	9.5 %	6.6 %	9.5 %

Alpha ICPMSQ Data with SRD

3/5/2024 5:01:37 AM

Analysis index: 35
Analysis label: WG1890528-4d10 6020TS
Analysis started at: 3/4/2024 8:01:36 AM
User name ALPHALAB\Metals-Instrument
Rack 1
Vial 14
Comment <Comment>

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	96.232 %	117.678 %	0.810 ppb	12.612 ppb	1,914.768 ppb	27,159.921 ppb	677.269 ppb	156.501 ppb	159.196 %
Concentration per Run 1	99.972 %	114.776 %	0.795 ppb	11.264 ppb	1,995.712 ppb	28,067.981 ppb	699.134 ppb	149.069 ppb	162.386 %
Concentration per Run 2	94.596 %	121.900 %	0.831 ppb	10.646 ppb	1,792.254 ppb	25,836.677 ppb	664.178 ppb	150.560 ppb	156.849 %
Concentration per Run 3	94.127 %	116.359 %	0.803 ppb	15.927 ppb	1,956.339 ppb	27,575.106 ppb	668.494 ppb	169.874 ppb	158.354 %
Concentration RSD	3.4 %	3.2 %	2.3 %	22.9 %	5.6 %	4.3 %	2.8 %	7.4 %	1.8 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	55.916 ppb	50.999 ppb	352.339 ppb	103,460.164 ppb	11.296 ppb	18.723 ppb	50.468 ppb	60.213 ppb	111.083 %
Concentration per Run 1	57.377 ppb	52.432 ppb	360.297 ppb	106,577.763 ppb	11.882 ppb	19.749 ppb	53.079 ppb	62.757 ppb	105.752 %
Concentration per Run 2	54.601 ppb	49.586 ppb	334.969 ppb	100,262.467 ppb	10.918 ppb	17.807 ppb	49.163 ppb	57.830 ppb	114.143 %
Concentration per Run 3	55.769 ppb	50.981 ppb	361.752 ppb	103,540.263 ppb	11.088 ppb	18.613 ppb	49.164 ppb	60.051 ppb	113.355 %
Concentration RSD	2.5 %	2.8 %	4.3 %	3.1 %	4.6 %	5.2 %	4.5 %	4.1 %	4.2 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	18.858 ppb	2.760 ppb	1.981 ppb	2.953 ppb	113.643 %	0.011 ppb	0.044 ppb	117.386 %	0.468 ppb
Concentration per Run 1	19.526 ppb	2.857 ppb	1.979 ppb	2.900 ppb	108.005 %	0.013 ppb	0.039 ppb	109.600 %	0.445 ppb
Concentration per Run 2	18.234 ppb	2.614 ppb	1.965 ppb	2.965 ppb	114.240 %	0.010 ppb	0.054 ppb	119.772 %	0.455 ppb
Concentration per Run 3	18.812 ppb	2.809 ppb	1.998 ppb	2.994 ppb	118.685 %	0.010 ppb	0.039 ppb	122.784 %	0.506 ppb
Concentration RSD	3.4 %	4.7 %	0.8 %	1.6 %	4.7 %	16.0 %	19.3 %	5.9 %	6.9 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	42.834 ppb	116.829 %	114.970 %	0.618 ppb	30.050 ppb
Concentration per Run 1	43.420 ppb	110.056 %	106.397 %	0.530 ppb	31.895 ppb
Concentration per Run 2	42.771 ppb	118.092 %	117.576 %	0.707 ppb	29.321 ppb
Concentration per Run 3	42.310 ppb	122.341 %	120.937 %	0.617 ppb	28.933 ppb
Concentration RSD	1.3 %	5.3 %	6.6 %	14.3 %	5.4 %

Alpha ICPMSQ Data with SRD

3/5/2024 5:01:37 AM

Analysis index: 36
Analysis label: L2410264-01d10 6020TS
Analysis started at: 3/4/2024 8:06:12 AM
User name ALPHALAB\Metals-Instrument
Rack 1
Vial 12
Comment <Comment>

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	93.557 %	117.217 %	0.787 ppb	8.455 ppb	2,771.298 ppb	24,671.638 ppb	1,289.336 ppb	106.229 ppb	156.486 %
Concentration per Run 1	96.251 %	112.203 %	0.798 ppb	9.052 ppb	2,817.195 ppb	24,958.536 ppb	1,302.867 ppb	117.069 ppb	159.722 %
Concentration per Run 2	93.418 %	121.306 %	0.795 ppb	8.096 ppb	2,730.593 ppb	23,945.801 ppb	1,273.956 ppb	97.471 ppb	155.763 %
Concentration per Run 3	91.002 %	118.140 %	0.769 ppb	8.216 ppb	2,766.108 ppb	25,110.577 ppb	1,291.186 ppb	104.145 ppb	153.974 %
Concentration RSD	2.8 %	3.9 %	2.0 %	6.2 %	1.6 %	2.6 %	1.1 %	9.4 %	1.9 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	50.626 ppb	41.414 ppb	349.624 ppb	84,692.932 ppb	14.923 ppb	22.082 ppb	45.188 ppb	64.075 ppb	111.580 %
Concentration per Run 1	52.089 ppb	42.536 ppb	345.174 ppb	85,818.411 ppb	15.379 ppb	22.710 ppb	47.076 ppb	66.798 ppb	106.318 %
Concentration per Run 2	49.241 ppb	40.544 ppb	346.691 ppb	83,441.118 ppb	14.676 ppb	22.178 ppb	44.138 ppb	62.823 ppb	113.413 %
Concentration per Run 3	50.548 ppb	41.162 ppb	357.006 ppb	84,819.268 ppb	14.715 ppb	21.358 ppb	44.350 ppb	62.605 ppb	115.009 %
Concentration RSD	2.8 %	2.5 %	1.8 %	1.4 %	2.6 %	3.1 %	3.6 %	3.7 %	4.1 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	15.211 ppb	2.699 ppb	2.769 ppb	1.873 ppb	114.324 %	0.009 ppb	0.040 ppb	115.526 %	0.347 ppb
Concentration per Run 1	15.348 ppb	2.846 ppb	2.761 ppb	1.755 ppb	111.337 %	0.012 ppb	0.039 ppb	107.527 %	0.335 ppb
Concentration per Run 2	15.512 ppb	2.684 ppb	2.808 ppb	1.936 ppb	115.445 %	0.008 ppb	0.046 ppb	120.772 %	0.333 ppb
Concentration per Run 3	14.773 ppb	2.567 ppb	2.739 ppb	1.928 ppb	116.190 %	0.008 ppb	0.036 ppb	118.277 %	0.374 ppb
Concentration RSD	2.6 %	5.2 %	1.3 %	5.4 %	2.3 %	24.4 %	12.5 %	6.1 %	6.7 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	46.876 ppb	116.227 %	114.657 %	0.367 ppb	28.062 ppb
Concentration per Run 1	47.719 ppb	111.363 %	106.622 %	0.320 ppb	29.523 ppb
Concentration per Run 2	46.494 ppb	119.589 %	118.956 %	0.385 ppb	27.379 ppb
Concentration per Run 3	46.414 ppb	117.730 %	118.394 %	0.397 ppb	27.283 ppb
Concentration RSD	1.6 %	3.7 %	6.1 %	11.3 %	4.5 %

Alpha ICPMSQ Data with SRD

3/5/2024 5:01:37 AM

Analysis index:	37	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	L2410264-02d10 6020TS	Rack	1		
Analysis started at:	3/4/2024 8:10:52 AM	Vial	17		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	98.292 %	121.900 %	0.942 ppb	16.702 ppb	4,746.714 ppb	40,581.180 ppb	813.925 ppb	868.653 ppb	180.722 %
Concentration per Run 1	100.160 %	111.412 %	0.932 ppb	17.739 ppb	4,985.155 ppb	41,668.711 ppb	845.992 ppb	885.199 ppb	181.062 %
Concentration per Run 2	98.076 %	125.462 %	0.961 ppb	16.642 ppb	4,642.188 ppb	39,989.979 ppb	775.090 ppb	837.095 ppb	179.940 %
Concentration per Run 3	96.639 %	128.826 %	0.934 ppb	15.724 ppb	4,612.799 ppb	40,084.850 ppb	820.693 ppb	883.664 ppb	181.164 %
Concentration RSD	1.8 %	7.6 %	1.7 %	6.0 %	4.4 %	2.3 %	4.4 %	3.1 %	0.4 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	63.804 ppb	39.715 ppb	1,682.778 ppb	95,899.918 ppb	64.144 ppb	34.936 ppb	55.300 ppb	90.684 ppb	115.590 %
Concentration per Run 1	68.563 ppb	41.885 ppb	1,715.456 ppb	99,054.918 ppb	67.026 ppb	36.470 ppb	57.317 ppb	94.007 ppb	109.772 %
Concentration per Run 2	62.017 ppb	39.054 ppb	1,668.686 ppb	94,272.607 ppb	62.445 ppb	34.364 ppb	54.676 ppb	89.056 ppb	118.944 %
Concentration per Run 3	60.833 ppb	38.205 ppb	1,664.193 ppb	94,372.229 ppb	62.961 ppb	33.974 ppb	53.909 ppb	88.989 ppb	118.053 %
Concentration RSD	6.5 %	4.9 %	1.7 %	2.8 %	3.9 %	3.8 %	3.2 %	3.2 %	4.4 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	17.874 ppb	6.775 ppb	8.678 ppb	2.400 ppb	114.309 %	0.012 ppb	0.048 ppb	116.530 %	0.448 ppb
Concentration per Run 1	18.215 ppb	6.631 ppb	8.544 ppb	2.280 ppb	110.095 %	0.013 ppb	0.044 ppb	109.550 %	0.445 ppb
Concentration per Run 2	17.514 ppb	6.836 ppb	8.699 ppb	2.503 ppb	115.994 %	0.013 ppb	0.047 ppb	121.492 %	0.443 ppb
Concentration per Run 3	17.894 ppb	6.857 ppb	8.790 ppb	2.418 ppb	116.839 %	0.010 ppb	0.054 ppb	118.549 %	0.457 ppb
Concentration RSD	2.0 %	1.8 %	1.4 %	4.7 %	3.2 %	15.4 %	10.0 %	5.3 %	1.7 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	80.358 ppb	119.802 %	115.356 %	0.277 ppb	26.217 ppb
Concentration per Run 1	79.568 ppb	116.048 %	109.185 %	0.232 ppb	27.127 ppb
Concentration per Run 2	79.600 ppb	121.903 %	118.247 %	0.292 ppb	25.828 ppb
Concentration per Run 3	81.907 ppb	121.454 %	118.637 %	0.305 ppb	25.695 ppb
Concentration RSD	1.7 %	2.7 %	4.6 %	14.1 %	3.0 %

Alpha ICPMSQ Data with SRD

3/5/2024 5:01:37 AM

Analysis index:	38	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	L2410264-03d10 6020TS	Rack	1		
Analysis started at:	3/4/2024 8:15:30 AM	Vial	18		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	100.034 %	122.560 %	0.920 ppb	24.854 ppb	5,100.316 ppb	47,032.896 ppb	914.770 ppb	941.379 ppb	181.457 %
Concentration per Run 1	101.713 %	110.620 %	0.920 ppb	29.915 ppb	5,436.845 ppb	48,771.104 ppb	984.556 ppb	972.425 ppb	180.878 %
Concentration per Run 2	99.564 %	134.565 %	0.898 ppb	19.828 ppb	4,719.208 ppb	44,479.337 ppb	835.052 ppb	886.986 ppb	181.728 %
Concentration per Run 3	98.825 %	122.494 %	0.941 ppb	24.818 ppb	5,144.895 ppb	47,848.246 ppb	924.701 ppb	964.725 ppb	181.765 %
Concentration RSD	1.5 %	9.8 %	2.4 %	20.3 %	7.1 %	4.8 %	8.2 %	5.0 %	0.3 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	74.051 ppb	39.832 ppb	1,541.207 ppb	104,795.969 ppb	54.774 ppb	37.342 ppb	67.107 ppb	94.644 ppb	113.743 %
Concentration per Run 1	79.879 ppb	42.379 ppb	1,612.274 ppb	111,074.967 ppb	59.162 ppb	40.313 ppb	73.032 ppb	101.465 ppb	103.363 %
Concentration per Run 2	68.009 ppb	37.142 ppb	1,451.965 ppb	99,239.193 ppb	51.320 ppb	34.380 ppb	63.183 ppb	89.127 ppb	120.247 %
Concentration per Run 3	74.265 ppb	39.975 ppb	1,559.384 ppb	104,073.746 ppb	53.841 ppb	37.332 ppb	65.105 ppb	93.342 ppb	117.618 %
Concentration RSD	8.0 %	6.6 %	5.3 %	5.7 %	7.3 %	7.9 %	7.8 %	6.6 %	8.0 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	20.503 ppb	4.536 ppb	7.478 ppb	2.427 ppb	113.375 %	0.016 ppb	0.042 ppb	116.254 %	0.465 ppb
Concentration per Run 1	22.174 ppb	4.272 ppb	7.575 ppb	2.370 ppb	106.561 %	0.018 ppb	0.043 ppb	107.599 %	0.465 ppb
Concentration per Run 2	19.260 ppb	4.635 ppb	7.380 ppb	2.493 ppb	115.964 %	0.016 ppb	0.046 ppb	123.244 %	0.451 ppb
Concentration per Run 3	20.074 ppb	4.701 ppb	7.480 ppb	2.418 ppb	117.600 %	0.013 ppb	0.036 ppb	117.920 %	0.480 ppb
Concentration RSD	7.3 %	5.1 %	1.3 %	2.5 %	5.3 %	15.5 %	12.5 %	6.8 %	3.0 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	83.079 ppb	119.205 %	115.495 %	0.257 ppb	29.047 ppb
Concentration per Run 1	84.791 ppb	110.973 %	106.952 %	0.231 ppb	30.925 ppb
Concentration per Run 2	81.571 ppb	122.624 %	119.428 %	0.269 ppb	28.222 ppb
Concentration per Run 3	82.876 ppb	124.017 %	120.106 %	0.271 ppb	27.993 ppb
Concentration RSD	1.9 %	6.0 %	6.4 %	8.7 %	5.6 %

Alpha ICPMSQ Data with SRD

3/5/2024 5:01:37 AM

Analysis index:	39	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	WG1890528-2d50 6020TS	Rack	1		
Analysis started at:	3/4/2024 8:20:07 AM	Vial	32		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	95.221 %	121.372 %	28.708 ppb	267.618 ppb	236.628 ppb	700.472 ppb	172.103 ppb	883.491 ppb	120.480 %
Concentration per Run 1	98.502 %	115.370 %	28.516 ppb	274.404 ppb	232.965 ppb	702.775 ppb	161.421 ppb	910.898 ppb	124.003 %
Concentration per Run 2	94.266 %	126.847 %	28.781 ppb	256.654 ppb	240.020 ppb	691.699 ppb	177.235 ppb	840.079 ppb	118.490 %
Concentration per Run 3	92.895 %	121.900 %	28.828 ppb	271.795 ppb	236.898 ppb	706.944 ppb	177.654 ppb	899.496 ppb	118.945 %
Concentration RSD	3.1 %	4.7 %	0.6 %	3.6 %	1.5 %	1.1 %	5.4 %	4.3 %	2.5 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	17.652 ppb	31.197 ppb	90.429 ppb	985.601 ppb	15.437 ppb	59.864 ppb	38.494 ppb	27.775 ppb	111.817 %
Concentration per Run 1	17.625 ppb	31.957 ppb	90.188 ppb	1,000.534 ppb	16.217 ppb	61.798 ppb	39.694 ppb	28.433 ppb	110.721 %
Concentration per Run 2	17.431 ppb	30.401 ppb	88.992 ppb	979.560 ppb	14.939 ppb	58.622 ppb	37.026 ppb	26.967 ppb	114.611 %
Concentration per Run 3	17.900 ppb	31.234 ppb	92.107 ppb	976.709 ppb	15.154 ppb	59.173 ppb	38.761 ppb	27.925 ppb	110.118 %
Concentration RSD	1.3 %	2.5 %	1.7 %	1.3 %	4.4 %	2.8 %	3.5 %	2.7 %	2.2 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	56.328 ppb	28.829 ppb	22.654 ppb	23.623 ppb	117.868 %	14.098 ppb	38.244 ppb	118.493 %	35.923 ppb
Concentration per Run 1	56.268 ppb	29.615 ppb	21.968 ppb	23.232 ppb	116.476 %	14.299 ppb	38.727 ppb	114.249 %	36.082 ppb
Concentration per Run 2	55.986 ppb	27.884 ppb	22.744 ppb	23.405 ppb	119.541 %	13.994 ppb	37.809 ppb	120.398 %	36.241 ppb
Concentration per Run 3	56.728 ppb	28.988 ppb	23.249 ppb	24.233 ppb	117.587 %	14.001 ppb	38.197 ppb	120.831 %	35.447 ppb
Concentration RSD	0.7 %	3.0 %	2.8 %	2.3 %	1.3 %	1.2 %	1.2 %	3.1 %	1.2 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	54.970 ppb	116.392 %	114.480 %	36.189 ppb	16.093 ppb
Concentration per Run 1	55.057 ppb	111.583 %	108.847 %	36.816 ppb	16.564 ppb
Concentration per Run 2	54.422 ppb	121.234 %	117.632 %	35.271 ppb	15.732 ppb
Concentration per Run 3	55.432 ppb	116.358 %	116.962 %	36.479 ppb	15.982 ppb
Concentration RSD	0.9 %	4.1 %	4.3 %	2.2 %	2.7 %

Alpha ICPMSQ Data with SRD

3/5/2024 5:01:37 AM

Analysis index:	40	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	WG1890528-6d50 6020TS	Rack	1		
Analysis started at:	3/4/2024 8:24:45 AM	Vial	16		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	92.480 %	115.238 %	0.183 ppb	-6.438 ppb	625.043 ppb	5,454.225 ppb	299.059 ppb	29.962 ppb	132.477 %
Concentration per Run 1	94.979 %	107.256 %	0.181 ppb	-4.840 ppb	652.982 ppb	5,791.824 ppb	304.747 ppb	39.321 ppb	133.781 %
Concentration per Run 2	92.768 %	118.536 %	0.186 ppb	-7.377 ppb	612.425 ppb	5,274.073 ppb	300.096 ppb	28.852 ppb	133.026 %
Concentration per Run 3	89.692 %	119.921 %	0.182 ppb	-7.097 ppb	609.722 ppb	5,296.778 ppb	292.332 ppb	21.713 ppb	130.625 %
Concentration RSD	2.9 %	6.0 %	1.4 %	21.6 %	3.9 %	5.4 %	2.1 %	29.6 %	1.2 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	10.747 ppb	8.929 ppb	75.513 ppb	17,050.163 ppb	3.156 ppb	4.737 ppb	9.797 ppb	13.979 ppb	112.162 %
Concentration per Run 1	11.109 ppb	9.343 ppb	75.806 ppb	17,756.287 ppb	3.236 ppb	4.922 ppb	10.409 ppb	14.597 ppb	107.077 %
Concentration per Run 2	10.779 ppb	8.777 ppb	75.944 ppb	16,758.114 ppb	3.155 ppb	4.708 ppb	9.529 ppb	13.756 ppb	114.623 %
Concentration per Run 3	10.352 ppb	8.669 ppb	74.789 ppb	16,636.088 ppb	3.075 ppb	4.580 ppb	9.452 ppb	13.584 ppb	114.786 %
Concentration RSD	3.5 %	4.1 %	0.8 %	3.6 %	2.5 %	3.6 %	5.4 %	3.9 %	3.9 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	3.135 ppb	1.008 ppb	0.591 ppb	0.773 ppb	118.448 %	0.004 ppb	0.014 ppb	121.349 %	0.128 ppb
Concentration per Run 1	3.304 ppb	1.068 ppb	0.602 ppb	0.729 ppb	113.826 %	0.007 ppb	0.017 ppb	116.145 %	0.104 ppb
Concentration per Run 2	3.080 ppb	0.929 ppb	0.580 ppb	0.791 ppb	120.612 %	0.001 ppb	0.011 ppb	121.676 %	0.135 ppb
Concentration per Run 3	3.020 ppb	1.027 ppb	0.591 ppb	0.798 ppb	120.908 %	0.003 ppb	0.013 ppb	126.225 %	0.146 ppb
Concentration RSD	4.8 %	7.1 %	1.8 %	4.9 %	3.4 %	81.2 %	21.7 %	4.2 %	16.7 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	9.758 ppb	119.275 %	115.411 %	0.355 ppb	5.895 ppb
Concentration per Run 1	9.752 ppb	113.790 %	111.405 %	0.292 ppb	6.105 ppb
Concentration per Run 2	9.777 ppb	118.887 %	117.154 %	0.412 ppb	5.835 ppb
Concentration per Run 3	9.746 ppb	125.146 %	117.675 %	0.361 ppb	5.746 ppb
Concentration RSD	0.2 %	4.8 %	3.0 %	17.0 %	3.2 %

Alpha ICPMSQ Data with SRD

3/5/2024 5:01:37 AM

Analysis index:	41	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	CCV	Rack	0		
Analysis started at:	3/4/2024 8:29:22 AM	Vial	9		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	81.258 %	105.541 %	63.060 ppb	6,198.907 ppb	6,188.604 ppb	61.666 ppb	6,195.082 ppb	6,010.619 ppb	108.020 %
Concentration per Run 1	83.759 %	104.881 %	62.930 ppb	6,459.135 ppb	6,410.903 ppb	61.305 ppb	6,401.055 ppb	6,209.028 ppb	109.477 %
Concentration per Run 2	79.975 %	102.705 %	63.014 ppb	6,309.131 ppb	6,287.112 ppb	63.043 ppb	6,109.055 ppb	6,191.146 ppb	107.414 %
Concentration per Run 3	80.039 %	109.037 %	63.236 ppb	5,828.454 ppb	5,867.795 ppb	60.651 ppb	6,075.134 ppb	5,631.682 ppb	107.170 %
Recovery Percentage 1			105.100 %	103.315 %	103.143 %	102.777 %	103.251 %	100.177 %	
Concentration RSD	2.7 %	3.0 %	0.3 %	5.3 %	4.6 %	2.0 %	2.9 %	5.5 %	1.2 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	60.485 ppb	60.728 ppb	60.952 ppb	6,278.310 ppb	63.837 ppb	64.332 ppb	64.374 ppb	61.391 ppb	104.629 %
Concentration per Run 1	63.410 ppb	62.837 ppb	62.661 ppb	6,428.787 ppb	65.463 ppb	66.277 ppb	65.610 ppb	61.823 ppb	108.082 %
Concentration per Run 2	59.254 ppb	59.714 ppb	59.404 ppb	6,274.823 ppb	63.259 ppb	63.394 ppb	63.037 ppb	60.489 ppb	106.144 %
Concentration per Run 3	58.791 ppb	59.632 ppb	60.789 ppb	6,131.319 ppb	62.788 ppb	63.326 ppb	64.473 ppb	61.859 ppb	99.662 %
Recovery Percentage 1	100.808 %	101.213 %	101.586 %	104.638 %	106.395 %	107.220 %	107.289 %	102.318 %	
Concentration RSD	4.2 %	3.0 %	2.7 %	2.4 %	2.2 %	2.6 %	2.0 %	1.3 %	4.2 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	62.139 ppb	59.852 ppb	59.676 ppb	59.958 ppb	107.159 %	62.498 ppb	62.567 ppb	109.849 %	60.469 ppb
Concentration per Run 1	62.915 ppb	58.429 ppb	60.114 ppb	60.719 ppb	107.321 %	64.500 ppb	64.098 ppb	109.844 %	62.333 ppb
Concentration per Run 2	61.234 ppb	59.082 ppb	58.917 ppb	59.093 ppb	107.884 %	62.343 ppb	62.061 ppb	110.780 %	59.871 ppb
Concentration per Run 3	62.267 ppb	62.046 ppb	59.995 ppb	60.061 ppb	106.273 %	60.651 ppb	61.540 ppb	108.923 %	59.204 ppb
Recovery Percentage 1	103.565 %	99.754 %	99.459 %	99.930 %		104.164 %	104.278 %		100.782 %
Concentration RSD	1.4 %	3.2 %	1.1 %	1.4 %	0.8 %	3.1 %	2.2 %	0.8 %	2.7 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	63.028 ppb	111.108 %	109.225 %	63.111 ppb	63.046 ppb
Concentration per Run 1	64.352 ppb	109.715 %	106.546 %	64.339 ppb	65.008 ppb
Concentration per Run 2	62.983 ppb	112.450 %	109.652 %	62.548 ppb	62.609 ppb
Concentration per Run 3	61.750 ppb	111.158 %	111.478 %	62.447 ppb	61.522 ppb
Recovery Percentage 1	105.047 %			105.186 %	105.077 %
Concentration RSD	2.1 %	1.2 %	2.3 %	1.7 %	2.8 %

Alpha ICPMSQ Data with SRD

3/5/2024 5:01:37 AM

Analysis index:	42	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	CCB	Rack	0		
Analysis started at:	3/4/2024 8:34:03 AM	Vial	10		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	81.283 %	106.728 %	0.016 ppb	-7.444 ppb	0.643 ppb	-1.909 ppb	-6.792 ppb	3.122 ppb	102.687 %
Concentration per Run 1	83.398 %	111.808 %	0.011 ppb	-7.535 ppb	0.660 ppb	-2.046 ppb	-5.455 ppb	0.823 ppb	103.820 %
Concentration per Run 2	81.500 %	104.486 %	0.016 ppb	-7.786 ppb	0.347 ppb	-1.777 ppb	-5.734 ppb	6.411 ppb	103.087 %
Concentration per Run 3	78.953 %	103.892 %	0.020 ppb	-7.012 ppb	0.922 ppb	-1.903 ppb	-9.187 ppb	2.132 ppb	101.153 %
Recovery Percentage 1			3.212 %	-7.444 %	0.918 %	-19.087 %	-6.792 %	3.122 %	
Concentration RSD	2.7 %	4.1 %	28.4 %	5.3 %	44.8 %	7.1 %	30.6 %	93.6 %	1.3 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.028 ppb	-0.011 ppb	0.055 ppb	24.005 ppb	0.003 ppb	0.006 ppb	0.001 ppb	0.267 ppb	101.351 %
Concentration per Run 1	-0.024 ppb	0.001 ppb	0.054 ppb	24.592 ppb	0.003 ppb	0.014 ppb	-0.014 ppb	0.300 ppb	100.974 %
Concentration per Run 2	-0.043 ppb	-0.015 ppb	0.089 ppb	25.391 ppb	0.006 ppb	-0.002 ppb	0.007 ppb	0.250 ppb	102.843 %
Concentration per Run 3	-0.017 ppb	-0.018 ppb	0.022 ppb	22.031 ppb	0.001 ppb	0.005 ppb	0.009 ppb	0.251 ppb	100.234 %
Recovery Percentage 1	-0.554 %	-1.051 %	5.510 %	48.009 %	0.632 %	0.284 %	0.087 %	5.339 %	
Concentration RSD	48.5 %	99.4 %	60.9 %	7.3 %	76.0 %	144.3 %	1,446.8 %	10.6 %	1.3 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.078 ppb	0.362 ppb	0.010 ppb	0.920 ppb	107.472 %	0.007 ppb	0.007 ppb	114.674 %	0.063 ppb
Concentration per Run 1	0.054 ppb	0.356 ppb	0.008 ppb	0.936 ppb	108.876 %	0.007 ppb	0.007 ppb	116.902 %	0.052 ppb
Concentration per Run 2	0.118 ppb	0.216 ppb	0.012 ppb	0.878 ppb	108.036 %	0.008 ppb	0.006 ppb	116.184 %	0.063 ppb
Concentration per Run 3	0.060 ppb	0.514 ppb	0.009 ppb	0.947 ppb	105.503 %	0.006 ppb	0.007 ppb	110.938 %	0.074 ppb
Recovery Percentage 1	15.519 %	7.238 %	0.098 %	46.010 %		1.691 %	3.456 %		1.572 %
Concentration RSD	45.3 %	41.1 %	23.5 %	4.0 %	1.6 %	14.5 %	10.4 %	2.8 %	17.1 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	-0.002 ppb	111.629 %	112.018 %	0.450 ppb	0.026 ppb
Concentration per Run 1	-0.012 ppb	115.313 %	113.773 %	0.352 ppb	0.027 ppb
Concentration per Run 2	-0.007 ppb	110.414 %	111.198 %	0.538 ppb	0.025 ppb
Concentration per Run 3	0.013 ppb	109.161 %	111.083 %	0.459 ppb	0.024 ppb
Recovery Percentage 1	-0.344 %			44.963 %	2.553 %
Concentration RSD	761.6 %	2.9 %	1.4 %	20.7 %	6.7 %

Alpha ICPMSQ Data with SRD

3/5/2024 5:01:37 AM

Analysis index:	43	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	L2410264-04d10 6020TS	Rack	1		
Analysis started at:	3/4/2024 8:39:21 AM	Vial	19		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	93.561 %	124.341 %	1.019 ppb	14.417 ppb	1,873.541 ppb	26,729.279 ppb	692.529 ppb	594.230 ppb	170.034 %
Concentration per Run 1	95.789 %	126.254 %	0.966 ppb	14.323 ppb	1,825.034 ppb	26,956.762 ppb	694.766 ppb	575.853 ppb	169.552 %
Concentration per Run 2	92.300 %	120.713 %	1.016 ppb	14.266 ppb	1,966.843 ppb	27,782.402 ppb	709.705 ppb	645.022 ppb	169.774 %
Concentration per Run 3	92.594 %	126.056 %	1.076 ppb	14.663 ppb	1,828.745 ppb	25,448.672 ppb	673.118 ppb	561.816 ppb	170.777 %
Concentration RSD	2.1 %	2.5 %	5.4 %	1.5 %	4.3 %	4.4 %	2.7 %	7.5 %	0.4 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	57.764 ppb	58.884 ppb	591.044 ppb	100,495.263 ppb	22.266 ppb	17.956 ppb	47.625 ppb	60.521 ppb	115.317 %
Concentration per Run 1	56.748 ppb	58.409 ppb	598.033 ppb	101,735.402 ppb	22.578 ppb	18.205 ppb	47.125 ppb	60.740 ppb	117.957 %
Concentration per Run 2	59.653 ppb	59.838 ppb	598.483 ppb	101,266.810 ppb	22.347 ppb	18.175 ppb	48.082 ppb	60.779 ppb	117.464 %
Concentration per Run 3	56.892 ppb	58.406 ppb	576.616 ppb	98,483.577 ppb	21.873 ppb	17.489 ppb	47.669 ppb	60.043 ppb	110.529 %
Concentration RSD	2.8 %	1.4 %	2.1 %	1.7 %	1.6 %	2.3 %	1.0 %	0.7 %	3.6 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	17.899 ppb	4.945 ppb	5.344 ppb	2.032 ppb	116.500 %	0.010 ppb	0.031 ppb	119.240 %	0.418 ppb
Concentration per Run 1	17.799 ppb	4.841 ppb	5.403 ppb	1.892 ppb	116.611 %	0.010 ppb	0.033 ppb	121.614 %	0.418 ppb
Concentration per Run 2	18.040 ppb	5.144 ppb	5.367 ppb	1.976 ppb	118.231 %	0.009 ppb	0.031 ppb	122.118 %	0.382 ppb
Concentration per Run 3	17.859 ppb	4.849 ppb	5.261 ppb	2.227 ppb	114.659 %	0.011 ppb	0.029 ppb	113.989 %	0.454 ppb
Concentration RSD	0.7 %	3.5 %	1.4 %	8.6 %	1.5 %	8.8 %	7.7 %	3.8 %	8.6 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	66.487 ppb	121.970 %	117.466 %	0.260 ppb	32.132 ppb
Concentration per Run 1	66.861 ppb	121.631 %	119.843 %	0.206 ppb	31.916 ppb
Concentration per Run 2	65.545 ppb	126.043 %	121.193 %	0.281 ppb	31.511 ppb
Concentration per Run 3	67.055 ppb	118.235 %	111.363 %	0.293 ppb	32.969 ppb
Concentration RSD	1.2 %	3.2 %	4.5 %	18.2 %	2.3 %

Alpha ICPMSQ Data with SRD

3/5/2024 5:01:37 AM

Analysis index:	44	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	L2410264-05d10 6020TS	Rack	1		
Analysis started at:	3/4/2024 8:43:59 AM	Vial	20		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	99.982 %	124.737 %	0.898 ppb	14.914 ppb	5,225.746 ppb	38,956.487 ppb	820.390 ppb	955.915 ppb	177.751 %
Concentration per Run 1	102.606 %	129.222 %	0.931 ppb	15.894 ppb	5,284.195 ppb	39,313.201 ppb	807.899 ppb	929.413 ppb	179.992 %
Concentration per Run 2	99.955 %	117.942 %	0.875 ppb	15.514 ppb	5,212.824 ppb	39,178.665 ppb	831.841 ppb	994.407 ppb	177.510 %
Concentration per Run 3	97.385 %	127.045 %	0.887 ppb	13.332 ppb	5,180.221 ppb	38,377.597 ppb	821.430 ppb	943.925 ppb	175.752 %
Concentration RSD	2.6 %	4.8 %	3.3 %	9.3 %	1.0 %	1.3 %	1.5 %	3.6 %	1.2 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	62.956 ppb	43.928 ppb	1,766.636 ppb	97,755.446 ppb	101.946 ppb	39.716 ppb	57.871 ppb	103.181 ppb	115.691 %
Concentration per Run 1	63.062 ppb	43.867 ppb	1,831.706 ppb	98,526.749 ppb	102.450 ppb	39.166 ppb	58.450 ppb	104.199 ppb	115.689 %
Concentration per Run 2	62.522 ppb	43.712 ppb	1,710.426 ppb	96,704.618 ppb	100.899 ppb	39.520 ppb	57.773 ppb	101.354 ppb	116.112 %
Concentration per Run 3	63.286 ppb	44.205 ppb	1,757.776 ppb	98,034.970 ppb	102.488 ppb	40.462 ppb	57.390 ppb	103.991 ppb	115.274 %
Concentration RSD	0.6 %	0.6 %	3.5 %	1.0 %	0.9 %	1.7 %	0.9 %	1.5 %	0.4 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	16.104 ppb	5.121 ppb	5.741 ppb	1.910 ppb	115.947 %	0.011 ppb	0.036 ppb	118.371 %	0.378 ppb
Concentration per Run 1	16.420 ppb	4.929 ppb	5.832 ppb	1.869 ppb	114.259 %	0.010 ppb	0.036 ppb	117.929 %	0.376 ppb
Concentration per Run 2	15.641 ppb	4.686 ppb	5.577 ppb	1.922 ppb	116.008 %	0.012 ppb	0.039 ppb	113.951 %	0.399 ppb
Concentration per Run 3	16.252 ppb	5.749 ppb	5.815 ppb	1.937 ppb	117.572 %	0.011 ppb	0.033 ppb	123.232 %	0.359 ppb
Concentration RSD	2.5 %	10.9 %	2.5 %	1.9 %	1.4 %	8.4 %	8.6 %	3.9 %	5.3 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	74.592 ppb	120.767 %	117.098 %	0.244 ppb	24.505 ppb
Concentration per Run 1	75.268 ppb	120.297 %	115.797 %	0.205 ppb	24.659 ppb
Concentration per Run 2	74.327 ppb	117.684 %	113.655 %	0.264 ppb	25.088 ppb
Concentration per Run 3	74.180 ppb	124.319 %	121.843 %	0.261 ppb	23.768 ppb
Concentration RSD	0.8 %	2.8 %	3.6 %	13.7 %	2.7 %

Alpha ICPMSQ Data with SRD

3/5/2024 5:01:37 AM

Analysis index:	45	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	L2410264-06d10 6020TS	Rack	1		
Analysis started at:	3/4/2024 8:48:37 AM	Vial	21		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	95.950 %	119.196 %	1.097 ppb	22.631 ppb	5,232.227 ppb	30,767.434 ppb	797.773 ppb	1,051.753 ppb	164.210 %
Concentration per Run 1	98.849 %	120.119 %	1.087 ppb	22.890 ppb	5,436.686 ppb	31,857.142 ppb	839.956 ppb	1,078.389 ppb	166.419 %
Concentration per Run 2	95.159 %	109.433 %	1.090 ppb	24.588 ppb	5,318.620 ppb	31,052.491 ppb	794.469 ppb	1,014.683 ppb	162.588 %
Concentration per Run 3	93.842 %	128.035 %	1.113 ppb	20.415 ppb	4,941.374 ppb	29,392.670 ppb	758.895 ppb	1,062.188 ppb	163.624 %
Concentration RSD	2.7 %	7.8 %	1.3 %	9.3 %	4.9 %	4.1 %	5.1 %	3.1 %	1.2 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	57.750 ppb	45.714 ppb	1,595.993 ppb	103,981.732 ppb	60.921 ppb	36.660 ppb	50.773 ppb	107.932 ppb	114.366 %
Concentration per Run 1	59.458 ppb	48.229 ppb	1,680.056 ppb	108,451.716 ppb	62.681 ppb	37.273 ppb	52.994 ppb	113.545 ppb	110.526 %
Concentration per Run 2	57.316 ppb	45.066 ppb	1,560.650 ppb	102,983.714 ppb	61.078 ppb	36.941 ppb	50.395 ppb	105.083 ppb	113.110 %
Concentration per Run 3	56.477 ppb	43.848 ppb	1,547.272 ppb	100,509.767 ppb	59.003 ppb	35.764 ppb	48.931 ppb	105.169 ppb	119.462 %
Concentration RSD	2.7 %	4.9 %	4.6 %	3.9 %	3.0 %	2.2 %	4.1 %	4.5 %	4.0 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	16.299 ppb	5.246 ppb	9.115 ppb	1.747 ppb	114.758 %	0.026 ppb	0.087 ppb	117.199 %	0.474 ppb
Concentration per Run 1	17.259 ppb	5.869 ppb	9.520 ppb	1.711 ppb	112.489 %	0.028 ppb	0.089 ppb	115.592 %	0.494 ppb
Concentration per Run 2	15.767 ppb	5.101 ppb	8.602 ppb	1.719 ppb	114.993 %	0.024 ppb	0.086 ppb	116.845 %	0.465 ppb
Concentration per Run 3	15.872 ppb	4.767 ppb	9.223 ppb	1.811 ppb	116.792 %	0.025 ppb	0.086 ppb	119.161 %	0.463 ppb
Concentration RSD	5.1 %	10.8 %	5.1 %	3.2 %	1.9 %	9.4 %	1.8 %	1.5 %	3.6 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	78.467 ppb	119.918 %	115.952 %	0.302 ppb	36.696 ppb
Concentration per Run 1	81.872 ppb	115.622 %	112.461 %	0.282 ppb	38.316 ppb
Concentration per Run 2	74.271 ppb	120.135 %	115.732 %	0.304 ppb	35.818 ppb
Concentration per Run 3	79.256 ppb	123.996 %	119.664 %	0.321 ppb	35.953 ppb
Concentration RSD	4.9 %	3.5 %	3.1 %	6.5 %	3.8 %

Alpha ICPMSQ Data with SRD

3/5/2024 5:01:37 AM

Analysis index:	46	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	L2410264-07d10 6020TS	Rack	1		
Analysis started at:	3/4/2024 8:53:16 AM	Vial	22		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	92.455 %	119.657 %	0.644 ppb	27.659 ppb	3,616.735 ppb	22,195.888 ppb	517.656 ppb	661.419 ppb	155.841 %
Concentration per Run 1	96.317 %	120.515 %	0.680 ppb	28.360 ppb	3,671.728 ppb	22,783.278 ppb	539.732 ppb	655.139 ppb	159.909 %
Concentration per Run 2	91.326 %	115.568 %	0.614 ppb	26.954 ppb	3,619.685 ppb	21,403.457 ppb	476.562 ppb	652.607 ppb	153.769 %
Concentration per Run 3	89.721 %	122.890 %	0.638 ppb	27.662 ppb	3,558.793 ppb	22,400.930 ppb	536.673 ppb	676.510 ppb	153.846 %
Concentration RSD	3.7 %	3.1 %	5.2 %	2.5 %	1.6 %	3.2 %	6.9 %	2.0 %	2.3 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	48.007 ppb	33.901 ppb	761.817 ppb	73,477.143 ppb	37.034 ppb	24.783 ppb	35.536 ppb	68.543 ppb	112.618 %
Concentration per Run 1	49.952 ppb	35.362 ppb	801.636 ppb	77,108.714 ppb	38.203 ppb	25.813 ppb	36.928 ppb	70.508 ppb	109.540 %
Concentration per Run 2	47.407 ppb	33.109 ppb	722.472 ppb	70,922.130 ppb	36.458 ppb	24.753 ppb	34.500 ppb	66.289 ppb	112.945 %
Concentration per Run 3	46.662 ppb	33.230 ppb	761.344 ppb	72,400.586 ppb	36.439 ppb	23.783 ppb	35.179 ppb	68.831 ppb	115.371 %
Concentration RSD	3.6 %	3.7 %	5.2 %	4.4 %	2.7 %	4.1 %	3.5 %	3.1 %	2.6 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	13.728 ppb	3.740 ppb	4.473 ppb	1.702 ppb	115.214 %	0.015 ppb	0.037 ppb	116.561 %	0.303 ppb
Concentration per Run 1	14.603 ppb	4.727 ppb	4.608 ppb	1.776 ppb	115.405 %	0.012 ppb	0.032 ppb	118.709 %	0.290 ppb
Concentration per Run 2	13.389 ppb	3.099 ppb	4.230 ppb	1.679 ppb	113.657 %	0.016 ppb	0.047 ppb	110.602 %	0.312 ppb
Concentration per Run 3	13.191 ppb	3.395 ppb	4.581 ppb	1.651 ppb	116.581 %	0.016 ppb	0.032 ppb	120.371 %	0.305 ppb
Concentration RSD	5.6 %	23.2 %	4.7 %	3.9 %	1.3 %	14.7 %	23.7 %	4.5 %	3.7 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	50.672 ppb	119.075 %	115.912 %	0.166 ppb	17.500 ppb
Concentration per Run 1	50.987 ppb	119.420 %	114.697 %	0.142 ppb	17.743 ppb
Concentration per Run 2	50.921 ppb	117.250 %	113.458 %	0.179 ppb	17.678 ppb
Concentration per Run 3	50.109 ppb	120.554 %	119.582 %	0.177 ppb	17.080 ppb
Concentration RSD	1.0 %	1.4 %	2.8 %	12.3 %	2.1 %

Alpha ICPMSQ Data with SRD

3/5/2024 5:01:37 AM

Analysis index:	47	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	L2410264-08d10 6020TS	Rack	1		
Analysis started at:	3/4/2024 8:57:54 AM	Vial	23		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	88.075 %	117.019 %	0.671 ppb	8.194 ppb	575.160 ppb	21,857.873 ppb	570.070 ppb	630.777 ppb	160.828 %
Concentration per Run 1	90.877 %	113.984 %	0.652 ppb	12.323 ppb	611.840 ppb	22,923.633 ppb	583.690 ppb	650.609 ppb	164.224 %
Concentration per Run 2	86.985 %	110.620 %	0.697 ppb	6.549 ppb	557.675 ppb	21,079.135 ppb	566.527 ppb	634.004 ppb	158.185 %
Concentration per Run 3	86.362 %	126.452 %	0.665 ppb	5.711 ppb	555.964 ppb	21,570.849 ppb	559.993 ppb	607.717 ppb	160.074 %
Concentration RSD	2.8 %	7.1 %	3.4 %	43.9 %	5.5 %	4.4 %	2.1 %	3.4 %	1.9 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	40.994 ppb	32.023 ppb	619.104 ppb	109,951.104 ppb	35.942 ppb	12.526 ppb	32.147 ppb	41.482 ppb	112.700 %
Concentration per Run 1	42.281 ppb	32.685 ppb	646.393 ppb	115,741.822 ppb	37.477 ppb	13.215 ppb	33.412 ppb	42.714 ppb	109.965 %
Concentration per Run 2	39.994 ppb	31.731 ppb	601.257 ppb	106,658.225 ppb	34.920 ppb	11.923 ppb	30.982 ppb	40.176 ppb	114.460 %
Concentration per Run 3	40.706 ppb	31.653 ppb	609.661 ppb	107,453.266 ppb	35.429 ppb	12.440 ppb	32.047 ppb	41.557 ppb	113.676 %
Concentration RSD	2.9 %	1.8 %	3.9 %	4.6 %	3.8 %	5.2 %	3.8 %	3.1 %	2.1 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	13.409 ppb	3.251 ppb	4.930 ppb	1.484 ppb	113.548 %	0.019 ppb	0.030 ppb	115.380 %	0.444 ppb
Concentration per Run 1	13.947 ppb	3.597 ppb	5.063 ppb	1.554 ppb	114.334 %	0.018 ppb	0.038 ppb	117.309 %	0.429 ppb
Concentration per Run 2	12.538 ppb	2.859 ppb	4.618 ppb	1.461 ppb	110.612 %	0.016 ppb	0.027 ppb	109.890 %	0.448 ppb
Concentration per Run 3	13.743 ppb	3.298 ppb	5.110 ppb	1.435 ppb	115.697 %	0.023 ppb	0.026 ppb	118.942 %	0.454 ppb
Concentration RSD	5.7 %	11.4 %	5.5 %	4.2 %	2.3 %	20.1 %	21.3 %	4.2 %	2.9 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	42.592 ppb	118.906 %	115.599 %	0.186 ppb	12.674 ppb
Concentration per Run 1	43.013 ppb	118.846 %	115.630 %	0.165 ppb	12.843 ppb
Concentration per Run 2	41.737 ppb	114.285 %	113.630 %	0.192 ppb	12.544 ppb
Concentration per Run 3	43.026 ppb	123.585 %	117.538 %	0.199 ppb	12.636 ppb
Concentration RSD	1.7 %	3.9 %	1.7 %	9.6 %	1.2 %

Alpha ICPMSQ Data with SRD

3/5/2024 5:01:37 AM

Analysis index:	48	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	L2410264-09d10 6020TS	Rack	1		
Analysis started at:	3/4/2024 9:02:33 AM	Vial	24		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	87.667 %	111.939 %	1.712 ppb	12.399 ppb	1,537.272 ppb	27,497.381 ppb	542.210 ppb	707.260 ppb	188.682 %
Concentration per Run 1	89.770 %	117.349 %	1.678 ppb	10.760 ppb	1,509.645 ppb	27,214.137 ppb	531.920 ppb	701.932 ppb	191.635 %
Concentration per Run 2	87.417 %	110.620 %	1.703 ppb	11.432 ppb	1,495.677 ppb	26,473.317 ppb	539.651 ppb	692.148 ppb	187.677 %
Concentration per Run 3	85.815 %	107.850 %	1.753 ppb	15.004 ppb	1,606.493 ppb	28,804.689 ppb	555.058 ppb	727.701 ppb	186.734 %
Concentration RSD	2.3 %	4.4 %	2.2 %	18.4 %	3.9 %	4.3 %	2.2 %	2.6 %	1.4 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	55.377 ppb	40.080 ppb	1,003.945 ppb	195,211.661 ppb	59.511 ppb	41.066 ppb	63.836 ppb	201.448 ppb	113.507 %
Concentration per Run 1	54.584 ppb	40.797 ppb	1,023.535 ppb	198,590.971 ppb	60.324 ppb	41.948 ppb	64.669 ppb	205.725 ppb	112.072 %
Concentration per Run 2	54.699 ppb	38.745 ppb	949.957 ppb	189,508.948 ppb	58.439 ppb	40.278 ppb	63.356 ppb	198.322 ppb	112.593 %
Concentration per Run 3	56.847 ppb	40.698 ppb	1,038.343 ppb	197,535.064 ppb	59.771 ppb	40.973 ppb	63.482 ppb	200.297 ppb	115.857 %
Concentration RSD	2.3 %	2.9 %	4.7 %	2.5 %	1.6 %	2.0 %	1.1 %	1.9 %	1.8 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	22.393 ppb	5.391 ppb	5.260 ppb	2.122 ppb	112.301 %	0.029 ppb	0.144 ppb	116.389 %	0.519 ppb
Concentration per Run 1	23.541 ppb	5.409 ppb	5.488 ppb	2.019 ppb	111.605 %	0.027 ppb	0.130 ppb	116.608 %	0.516 ppb
Concentration per Run 2	21.799 ppb	5.696 ppb	5.024 ppb	2.196 ppb	110.647 %	0.027 ppb	0.149 ppb	112.791 %	0.509 ppb
Concentration per Run 3	21.839 ppb	5.068 ppb	5.267 ppb	2.153 ppb	114.652 %	0.033 ppb	0.153 ppb	119.767 %	0.532 ppb
Concentration RSD	4.4 %	5.8 %	4.4 %	4.4 %	1.9 %	13.2 %	8.6 %	3.0 %	2.2 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	68.999 ppb	120.505 %	117.246 %	0.290 ppb	27.108 ppb
Concentration per Run 1	70.074 ppb	119.775 %	115.187 %	0.276 ppb	27.957 ppb
Concentration per Run 2	69.311 ppb	118.117 %	114.459 %	0.305 ppb	27.029 ppb
Concentration per Run 3	67.613 ppb	123.622 %	122.092 %	0.287 ppb	26.337 ppb
Concentration RSD	1.8 %	2.3 %	3.6 %	5.1 %	3.0 %

Alpha ICPMSQ Data with SRD

3/5/2024 5:01:37 AM

Analysis index:	49	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	L2410274-02d10 6020TS	Rack	1		
Analysis started at:	3/4/2024 9:07:12 AM	Vial	26		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	85.101 %	107.784 %	0.425 ppb	65.138 ppb	1,730.576 ppb	6,584.194 ppb	567.634 ppb	5,166.773 ppb	118.226 %
Concentration per Run 1	87.576 %	104.683 %	0.428 ppb	70.442 ppb	1,787.357 ppb	6,795.014 ppb	583.840 ppb	5,267.365 ppb	120.562 %
Concentration per Run 2	84.221 %	102.507 %	0.415 ppb	64.017 ppb	1,697.966 ppb	6,592.728 ppb	572.615 ppb	5,072.210 ppb	115.979 %
Concentration per Run 3	83.505 %	116.161 %	0.432 ppb	60.954 ppb	1,706.404 ppb	6,364.838 ppb	546.448 ppb	5,160.743 ppb	118.136 %
Concentration RSD	2.6 %	6.8 %	2.1 %	7.4 %	2.9 %	3.3 %	3.4 %	1.9 %	1.9 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	13.377 ppb	11.454 ppb	315.565 ppb	15,204.610 ppb	5.175 ppb	9.123 ppb	16.465 ppb	71.329 ppb	107.737 %
Concentration per Run 1	13.531 ppb	11.896 ppb	321.403 ppb	15,680.635 ppb	5.359 ppb	9.410 ppb	17.093 ppb	73.481 ppb	102.270 %
Concentration per Run 2	13.886 ppb	11.699 ppb	312.464 ppb	15,055.864 ppb	4.977 ppb	9.122 ppb	16.437 ppb	69.753 ppb	111.361 %
Concentration per Run 3	12.714 ppb	10.767 ppb	312.827 ppb	14,877.333 ppb	5.188 ppb	8.839 ppb	15.866 ppb	70.754 ppb	109.580 %
Concentration RSD	4.5 %	5.3 %	1.6 %	2.8 %	3.7 %	3.1 %	3.7 %	2.7 %	4.5 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	9.908 ppb	1.739 ppb	12.678 ppb	0.571 ppb	112.967 %	0.039 ppb	0.165 ppb	113.581 %	0.601 ppb
Concentration per Run 1	10.109 ppb	1.826 ppb	12.872 ppb	0.549 ppb	108.205 %	0.034 ppb	0.165 ppb	103.798 %	0.649 ppb
Concentration per Run 2	9.904 ppb	1.549 ppb	12.410 ppb	0.536 ppb	114.423 %	0.040 ppb	0.159 ppb	119.792 %	0.522 ppb
Concentration per Run 3	9.709 ppb	1.843 ppb	12.751 ppb	0.627 ppb	116.272 %	0.042 ppb	0.172 ppb	117.153 %	0.633 ppb
Concentration RSD	2.0 %	9.5 %	1.9 %	8.6 %	3.7 %	11.2 %	4.0 %	7.5 %	11.5 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	43.597 ppb	113.688 %	111.300 %	0.144 ppb	52.583 ppb
Concentration per Run 1	45.809 ppb	105.800 %	102.269 %	0.138 ppb	56.561 ppb
Concentration per Run 2	41.234 ppb	118.461 %	114.928 %	0.147 ppb	50.523 ppb
Concentration per Run 3	43.749 ppb	116.803 %	116.701 %	0.149 ppb	50.665 ppb
Concentration RSD	5.3 %	6.1 %	7.1 %	4.2 %	6.6 %

Alpha ICPMSQ Data with SRD

3/5/2024 5:01:37 AM

Analysis index:	50	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	L2410274-03d10 6020TS	Rack	1		
Analysis started at:	3/4/2024 9:11:49 AM	Vial	27		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	88.158 %	106.794 %	0.538 ppb	96.765 ppb	2,774.331 ppb	12,258.154 ppb	568.107 ppb	5,585.898 ppb	128.213 %
Concentration per Run 1	90.782 %	100.726 %	0.554 ppb	106.422 ppb	2,903.147 ppb	12,516.335 ppb	584.029 ppb	5,736.010 ppb	128.906 %
Concentration per Run 2	88.409 %	112.599 %	0.549 ppb	91.381 ppb	2,648.503 ppb	12,001.476 ppb	574.320 ppb	5,389.455 ppb	130.076 %
Concentration per Run 3	85.282 %	107.058 %	0.512 ppb	92.493 ppb	2,771.343 ppb	12,256.649 ppb	545.974 ppb	5,632.228 ppb	125.658 %
Concentration RSD	3.1 %	5.6 %	4.3 %	8.7 %	4.6 %	2.1 %	3.5 %	3.2 %	1.8 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	22.686 ppb	16.272 ppb	252.352 ppb	21,172.219 ppb	6.255 ppb	12.362 ppb	41.525 ppb	182.554 ppb	110.488 %
Concentration per Run 1	24.026 ppb	17.305 ppb	265.377 ppb	22,531.189 ppb	6.756 ppb	13.622 ppb	44.685 ppb	193.023 ppb	101.594 %
Concentration per Run 2	22.001 ppb	15.709 ppb	247.260 ppb	20,758.369 ppb	6.135 ppb	11.893 ppb	40.272 ppb	176.222 ppb	114.427 %
Concentration per Run 3	22.031 ppb	15.801 ppb	244.419 ppb	20,227.098 ppb	5.874 ppb	11.572 ppb	39.620 ppb	178.418 ppb	115.444 %
Concentration RSD	5.1 %	5.5 %	4.5 %	5.7 %	7.2 %	8.9 %	6.6 %	5.0 %	7.0 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	14.643 ppb	2.660 ppb	14.315 ppb	0.741 ppb	115.937 %	0.114 ppb	0.460 ppb	114.411 %	4.953 ppb
Concentration per Run 1	15.355 ppb	2.795 ppb	14.684 ppb	0.817 ppb	107.566 %	0.117 ppb	0.479 ppb	101.236 %	5.437 ppb
Concentration per Run 2	14.319 ppb	2.647 ppb	14.094 ppb	0.691 ppb	119.916 %	0.113 ppb	0.448 ppb	121.079 %	4.728 ppb
Concentration per Run 3	14.254 ppb	2.537 ppb	14.169 ppb	0.715 ppb	120.328 %	0.112 ppb	0.454 ppb	120.918 %	4.693 ppb
Concentration RSD	4.2 %	4.9 %	2.2 %	9.0 %	6.3 %	2.1 %	3.6 %	10.0 %	8.5 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	87.490 ppb	116.383 %	113.124 %	0.162 ppb	199.334 ppb
Concentration per Run 1	92.727 ppb	106.051 %	101.861 %	0.156 ppb	214.800 ppb
Concentration per Run 2	85.734 ppb	122.153 %	119.519 %	0.167 ppb	191.218 ppb
Concentration per Run 3	84.010 ppb	120.943 %	117.993 %	0.163 ppb	191.982 ppb
Concentration RSD	5.3 %	7.7 %	8.6 %	3.7 %	6.7 %

Alpha ICPMSQ Data with SRD

3/5/2024 5:01:37 AM

Analysis index: 51
Analysis label: L2410274-04d10 6020TS
Analysis started at: 3/4/2024 9:16:25 AM
User name ALPHALAB\Metals-Instrument
Rack 1
Vial 28
Comment <Comment>

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	73.015 %	95.251 %	0.406 ppb	75.667 ppb	2,933.243 ppb	6,704.828 ppb	473.810 ppb	24,062.271 ppb	92.278 %
Concentration per Run 1	73.899 %	84.696 %	0.420 ppb	86.325 ppb	3,253.785 ppb	7,283.709 ppb	524.728 ppb	26,134.014 ppb	91.987 %
Concentration per Run 2	72.781 %	101.517 %	0.380 ppb	71.624 ppb	2,767.683 ppb	6,463.421 ppb	474.239 ppb	23,117.416 ppb	92.464 %
Concentration per Run 3	72.366 %	99.538 %	0.419 ppb	69.053 ppb	2,778.260 ppb	6,367.353 ppb	422.462 ppb	22,935.384 ppb	92.383 %
Concentration RSD	1.1 %	9.7 %	5.7 %	12.3 %	9.5 %	7.5 %	10.8 %	7.5 %	0.3 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	15.067 ppb	17.425 ppb	274.265 ppb	14,907.112 ppb	4.790 ppb	8.967 ppb	24.266 ppb	102.063 ppb	87.639 %
Concentration per Run 1	16.815 ppb	19.039 ppb	289.566 ppb	16,125.603 ppb	5.395 ppb	9.572 ppb	27.220 ppb	111.207 ppb	81.664 %
Concentration per Run 2	14.155 ppb	16.617 ppb	267.288 ppb	14,418.229 ppb	4.543 ppb	8.955 ppb	22.574 ppb	98.381 ppb	89.660 %
Concentration per Run 3	14.232 ppb	16.619 ppb	265.941 ppb	14,177.505 ppb	4.431 ppb	8.375 ppb	23.005 ppb	96.601 ppb	91.592 %
Concentration RSD	10.0 %	8.0 %	4.8 %	7.1 %	11.0 %	6.7 %	10.6 %	7.8 %	6.0 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	7.886 ppb	1.330 ppb	55.719 ppb	0.552 ppb	94.893 %	0.049 ppb	0.246 ppb	94.600 %	0.652 ppb
Concentration per Run 1	8.569 ppb	1.399 ppb	57.781 ppb	0.555 ppb	89.931 %	0.052 ppb	0.266 ppb	88.625 %	0.661 ppb
Concentration per Run 2	7.887 ppb	1.353 ppb	55.356 ppb	0.595 ppb	97.995 %	0.050 ppb	0.239 ppb	95.417 %	0.627 ppb
Concentration per Run 3	7.201 ppb	1.240 ppb	54.021 ppb	0.505 ppb	96.754 %	0.045 ppb	0.232 ppb	99.759 %	0.668 ppb
Concentration RSD	8.7 %	6.1 %	3.4 %	8.1 %	4.6 %	8.0 %	7.2 %	5.9 %	3.3 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	42.689 ppb	101.633 %	99.427 %	0.139 ppb	78.238 ppb
Concentration per Run 1	43.889 ppb	95.125 %	91.063 %	0.133 ppb	83.763 ppb
Concentration per Run 2	43.199 ppb	104.692 %	103.071 %	0.139 ppb	76.514 ppb
Concentration per Run 3	40.979 ppb	105.081 %	104.148 %	0.146 ppb	74.437 ppb
Concentration RSD	3.6 %	5.5 %	7.3 %	4.7 %	6.3 %

Alpha ICPMSQ Data with SRD

3/5/2024 5:01:37 AM

Analysis index:	52	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	L2410274-05d10 6020TS	Rack	1		
Analysis started at:	3/4/2024 9:21:02 AM	Vial	29		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	87.879 %	104.090 %	0.639 ppb	172.599 ppb	2,970.720 ppb	14,982.674 ppb	524.292 ppb	3,434.860 ppb	134.882 %
Concentration per Run 1	90.214 %	94.789 %	0.639 ppb	176.606 ppb	2,982.494 ppb	14,902.294 ppb	513.090 ppb	3,364.325 ppb	137.239 %
Concentration per Run 2	87.840 %	110.818 %	0.624 ppb	164.308 ppb	2,850.061 ppb	14,899.505 ppb	543.731 ppb	3,303.762 ppb	134.557 %
Concentration per Run 3	85.582 %	106.662 %	0.655 ppb	176.883 ppb	3,079.604 ppb	15,146.223 ppb	516.055 ppb	3,636.493 ppb	132.849 %
Concentration RSD	2.6 %	8.0 %	2.4 %	4.2 %	3.9 %	0.9 %	3.2 %	5.2 %	1.6 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	29.054 ppb	152.246 ppb	387.620 ppb	27,572.840 ppb	8.604 ppb	13.920 ppb	79.350 ppb	274.298 ppb	108.544 %
Concentration per Run 1	28.939 ppb	155.439 ppb	391.261 ppb	28,356.880 ppb	8.734 ppb	13.697 ppb	81.803 ppb	280.424 ppb	100.065 %
Concentration per Run 2	28.642 ppb	147.034 ppb	374.628 ppb	26,516.203 ppb	8.392 ppb	13.890 ppb	76.212 ppb	266.985 ppb	112.480 %
Concentration per Run 3	29.580 ppb	154.264 ppb	396.971 ppb	27,845.438 ppb	8.684 ppb	14.173 ppb	80.035 ppb	275.485 ppb	113.089 %
Concentration RSD	1.7 %	3.0 %	3.0 %	3.4 %	2.1 %	1.7 %	3.6 %	2.5 %	6.8 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	25.830 ppb	2.284 ppb	10.463 ppb	0.837 ppb	110.810 %	0.061 ppb	0.317 ppb	114.800 %	5.403 ppb
Concentration per Run 1	25.855 ppb	2.020 ppb	10.416 ppb	0.841 ppb	104.095 %	0.061 ppb	0.336 ppb	104.215 %	5.593 ppb
Concentration per Run 2	25.908 ppb	2.334 ppb	10.361 ppb	0.784 ppb	112.558 %	0.061 ppb	0.314 ppb	119.220 %	5.393 ppb
Concentration per Run 3	25.727 ppb	2.498 ppb	10.612 ppb	0.886 ppb	115.777 %	0.060 ppb	0.301 ppb	120.966 %	5.223 ppb
Concentration RSD	0.4 %	10.6 %	1.3 %	6.1 %	5.4 %	1.3 %	5.6 %	8.0 %	3.4 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	48.385 ppb	117.614 %	113.745 %	0.164 ppb	82.536 ppb
Concentration per Run 1	49.148 ppb	108.797 %	103.589 %	0.161 ppb	87.917 ppb
Concentration per Run 2	48.752 ppb	121.526 %	120.334 %	0.159 ppb	78.521 ppb
Concentration per Run 3	47.254 ppb	122.519 %	117.312 %	0.171 ppb	81.168 ppb
Concentration RSD	2.1 %	6.5 %	7.8 %	3.7 %	5.9 %

Alpha ICPMSQ Data with SRD

3/5/2024 5:01:37 AM

Analysis index:	53	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	CCV	Rack	0		
Analysis started at:	3/4/2024 9:25:39 AM	Vial	9		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	75.915 %	103.166 %	63.791 ppb	5,905.356 ppb	5,901.562 ppb	57.634 ppb	5,801.134 ppb	5,908.106 ppb	102.636 %
Concentration per Run 1	77.305 %	107.850 %	63.450 ppb	5,747.278 ppb	5,734.105 ppb	55.755 ppb	5,699.135 ppb	5,949.655 ppb	102.958 %
Concentration per Run 2	75.408 %	104.288 %	63.954 ppb	5,824.660 ppb	5,828.940 ppb	57.867 ppb	5,780.233 ppb	5,750.399 ppb	102.136 %
Concentration per Run 3	75.033 %	97.361 %	63.969 ppb	6,144.132 ppb	6,141.640 ppb	59.279 ppb	5,924.034 ppb	6,024.264 ppb	102.815 %
Recovery Percentage 1			106.318 %	98.423 %	98.359 %	96.056 %	96.686 %	98.468 %	
Concentration RSD	1.6 %	5.2 %	0.5 %	3.6 %	3.6 %	3.1 %	2.0 %	2.4 %	0.4 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	59.709 ppb	59.944 ppb	59.487 ppb	6,150.158 ppb	62.951 ppb	63.379 ppb	63.006 ppb	60.404 ppb	100.606 %
Concentration per Run 1	59.853 ppb	60.440 ppb	59.608 ppb	6,226.479 ppb	64.792 ppb	64.894 ppb	64.616 ppb	61.379 ppb	100.020 %
Concentration per Run 2	59.820 ppb	58.833 ppb	59.001 ppb	6,049.881 ppb	60.810 ppb	61.240 ppb	61.236 ppb	58.626 ppb	103.248 %
Concentration per Run 3	59.455 ppb	60.558 ppb	59.853 ppb	6,174.116 ppb	63.251 ppb	64.002 ppb	63.167 ppb	61.206 ppb	98.549 %
Recovery Percentage 1	99.516 %	99.906 %	99.145 %	102.503 %	104.918 %	105.631 %	105.010 %	100.673 %	
Concentration RSD	0.4 %	1.6 %	0.7 %	1.5 %	3.2 %	3.0 %	2.7 %	2.6 %	2.4 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	61.448 ppb	59.741 ppb	58.004 ppb	59.249 ppb	104.632 %	62.319 ppb	62.361 ppb	105.694 %	61.281 ppb
Concentration per Run 1	62.393 ppb	58.045 ppb	57.762 ppb	58.513 ppb	107.093 %	62.468 ppb	62.885 ppb	105.929 %	61.542 ppb
Concentration per Run 2	60.259 ppb	59.209 ppb	57.798 ppb	58.127 ppb	104.206 %	62.162 ppb	61.813 ppb	106.962 %	61.092 ppb
Concentration per Run 3	61.691 ppb	61.969 ppb	58.451 ppb	61.108 ppb	102.597 %	62.326 ppb	62.385 ppb	104.190 %	61.210 ppb
Recovery Percentage 1	102.413 %	99.568 %	96.673 %	98.749 %		103.865 %	103.935 %		102.136 %
Concentration RSD	1.8 %	3.4 %	0.7 %	2.7 %	2.2 %	0.2 %	0.9 %	1.3 %	0.4 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	61.278 ppb	109.771 %	107.869 %	63.531 ppb	63.668 ppb
Concentration per Run 1	61.605 ppb	110.167 %	108.021 %	62.184 ppb	63.774 ppb
Concentration per Run 2	59.803 ppb	110.427 %	107.496 %	64.582 ppb	63.923 ppb
Concentration per Run 3	62.426 ppb	108.718 %	108.091 %	63.826 ppb	63.308 ppb
Recovery Percentage 1	102.130 %			105.884 %	106.114 %
Concentration RSD	2.2 %	0.8 %	0.3 %	1.9 %	0.5 %

Alpha ICPMSQ Data with SRD

3/5/2024 5:01:37 AM

Analysis index:	54	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	CCB	Rack	0		
Analysis started at:	3/4/2024 9:30:21 AM	Vial	10		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	76.320 %	97.691 %	0.011 ppb	-9.469 ppb	0.266 ppb	-2.475 ppb	-3.170 ppb	1.834 ppb	79.648 %
Concentration per Run 1	77.713 %	104.881 %	0.010 ppb	-11.705 ppb	0.932 ppb	-2.325 ppb	-6.181 ppb	2.297 ppb	79.595 %
Concentration per Run 2	76.926 %	92.414 %	0.016 ppb	-7.064 ppb	0.039 ppb	-2.707 ppb	-2.819 ppb	0.304 ppb	80.040 %
Concentration per Run 3	74.322 %	95.778 %	0.006 ppb	-9.638 ppb	-0.172 ppb	-2.393 ppb	-0.509 ppb	2.902 ppb	79.308 %
Recovery Percentage 1			2.108 %	-9.469 %	0.380 %	-24.751 %	-3.170 %	1.834 %	
Concentration RSD	2.3 %	6.6 %	46.4 %	24.6 %	220.0 %	8.2 %	90.0 %	74.1 %	0.5 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.014 ppb	-0.010 ppb	0.028 ppb	19.331 ppb	0.005 ppb	0.031 ppb	0.002 ppb	0.306 ppb	92.970 %
Concentration per Run 1	-0.029 ppb	-0.022 ppb	0.025 ppb	20.323 ppb	0.006 ppb	0.020 ppb	-0.007 ppb	0.266 ppb	94.896 %
Concentration per Run 2	-0.015 ppb	-0.010 ppb	0.002 ppb	17.337 ppb	0.005 ppb	0.016 ppb	0.020 ppb	0.347 ppb	95.338 %
Concentration per Run 3	0.001 ppb	0.001 ppb	0.056 ppb	20.334 ppb	0.005 ppb	0.057 ppb	-0.007 ppb	0.305 ppb	88.675 %
Recovery Percentage 1	-0.288 %	-1.032 %	2.759 %	38.662 %	1.079 %	1.540 %	0.197 %	6.123 %	
Concentration RSD	104.4 %	109.3 %	98.6 %	8.9 %	14.8 %	74.7 %	812.0 %	13.1 %	4.0 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.093 ppb	0.339 ppb	0.007 ppb	0.825 ppb	98.810 %	0.005 ppb	0.006 ppb	101.785 %	0.049 ppb
Concentration per Run 1	0.072 ppb	0.365 ppb	0.012 ppb	0.783 ppb	99.990 %	0.007 ppb	0.007 ppb	100.662 %	0.040 ppb
Concentration per Run 2	0.078 ppb	0.267 ppb	0.003 ppb	0.729 ppb	101.864 %	0.004 ppb	0.003 ppb	106.542 %	0.047 ppb
Concentration per Run 3	0.130 ppb	0.384 ppb	0.006 ppb	0.963 ppb	94.577 %	0.004 ppb	0.007 ppb	98.151 %	0.059 ppb
Recovery Percentage 1	18.654 %	6.775 %	0.068 %	41.267 %		1.159 %	2.881 %		1.216 %
Concentration RSD	33.9 %	18.5 %	64.0 %	14.8 %	3.8 %	36.2 %	39.7 %	4.2 %	20.1 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	0.013 ppb	103.771 %	100.797 %	0.451 ppb	0.031 ppb
Concentration per Run 1	0.010 ppb	105.056 %	101.556 %	0.366 ppb	0.039 ppb
Concentration per Run 2	0.029 ppb	107.285 %	104.960 %	0.504 ppb	0.027 ppb
Concentration per Run 3	0.000 ppb	98.972 %	95.875 %	0.483 ppb	0.027 ppb
Recovery Percentage 1	2.614 %			45.114 %	3.107 %
Concentration RSD	112.6 %	4.1 %	4.6 %	16.4 %	22.4 %

Alpha ICPMSQ Data with SRD

3/5/2024 5:01:37 AM

Analysis index:	55	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	L2410274-06d10 6020TS	Rack	1		
Analysis started at:	3/4/2024 9:45:20 AM	Vial	30		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	95.219 %	121.702 %	1.006 ppb	201.335 ppb	4,576.034 ppb	30,179.056 ppb	987.901 ppb	1,865.342 ppb	158.698 %
Concentration per Run 1	97.472 %	117.546 %	0.988 ppb	203.352 ppb	4,599.839 ppb	30,370.794 ppb	1,008.528 ppb	1,993.605 ppb	159.081 %
Concentration per Run 2	94.883 %	129.816 %	1.004 ppb	199.320 ppb	4,540.146 ppb	30,460.021 ppb	998.168 ppb	1,871.427 ppb	158.701 %
Concentration per Run 3	93.303 %	117.744 %	1.026 ppb	201.331 ppb	4,588.116 ppb	29,706.352 ppb	957.007 ppb	1,730.995 ppb	158.313 %
Concentration RSD	2.2 %	5.8 %	1.9 %	1.0 %	0.7 %	1.4 %	2.8 %	7.0 %	0.2 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	49.366 ppb	33.413 ppb	358.568 ppb	41,044.717 ppb	12.476 ppb	22.630 ppb	33.536 ppb	199.845 ppb	120.429 %
Concentration per Run 1	52.640 ppb	35.703 ppb	376.476 ppb	43,979.414 ppb	13.759 ppb	25.360 ppb	36.588 ppb	212.555 ppb	107.795 %
Concentration per Run 2	47.154 ppb	31.386 ppb	350.363 ppb	38,916.549 ppb	11.599 ppb	21.117 ppb	31.476 ppb	191.556 ppb	131.941 %
Concentration per Run 3	48.305 ppb	33.149 ppb	348.866 ppb	40,238.188 ppb	12.069 ppb	21.413 ppb	32.544 ppb	195.423 ppb	121.550 %
Concentration RSD	5.9 %	6.5 %	4.3 %	6.4 %	9.1 %	10.5 %	8.0 %	5.6 %	10.1 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	14.002 ppb	4.848 ppb	11.113 ppb	1.482 ppb	119.613 %	0.057 ppb	0.342 ppb	128.665 %	1.146 ppb
Concentration per Run 1	15.491 ppb	5.697 ppb	11.624 ppb	1.589 ppb	112.949 %	0.056 ppb	0.376 ppb	117.166 %	1.233 ppb
Concentration per Run 2	13.100 ppb	4.414 ppb	11.127 ppb	1.481 ppb	124.236 %	0.051 ppb	0.300 ppb	136.474 %	1.150 ppb
Concentration per Run 3	13.416 ppb	4.434 ppb	10.587 ppb	1.375 ppb	121.653 %	0.064 ppb	0.349 ppb	132.355 %	1.055 ppb
Concentration RSD	9.3 %	15.2 %	4.7 %	7.2 %	4.9 %	11.4 %	11.3 %	7.9 %	7.8 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	109.534 ppb	124.192 %	120.537 %	0.291 ppb	110.533 ppb
Concentration per Run 1	118.119 ppb	115.073 %	109.708 %	0.303 ppb	120.372 ppb
Concentration per Run 2	108.148 ppb	130.786 %	128.477 %	0.287 ppb	106.353 ppb
Concentration per Run 3	102.336 ppb	126.719 %	123.427 %	0.284 ppb	104.874 ppb
Concentration RSD	7.3 %	6.6 %	8.1 %	3.5 %	7.7 %

Alpha ICPMSQ Data with SRD

3/5/2024 5:01:37 AM

Analysis index: 56
Analysis label: L2410274-07d10 6020TS
Analysis started at: 3/4/2024 9:49:58 AM
User name ALPHALAB\Metals-Instrument
Rack 1
Vial 31
Comment <Comment>

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	87.774 %	119.591 %	0.969 ppb	84.692 ppb	1,295.254 ppb	7,667.432 ppb	523.068 ppb	2,285.678 ppb	128.829 %
Concentration per Run 1	90.024 %	118.932 %	0.946 ppb	87.627 ppb	1,330.595 ppb	7,655.914 ppb	523.086 ppb	2,260.699 ppb	129.471 %
Concentration per Run 2	87.414 %	119.723 %	0.956 ppb	82.420 ppb	1,241.272 ppb	7,378.490 ppb	507.326 ppb	2,186.912 ppb	129.425 %
Concentration per Run 3	85.885 %	120.119 %	1.004 ppb	84.027 ppb	1,313.896 ppb	7,967.891 ppb	538.791 ppb	2,409.423 ppb	127.590 %
Concentration RSD	2.4 %	0.5 %	3.2 %	3.1 %	3.7 %	3.8 %	3.0 %	5.0 %	0.8 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	14.711 ppb	9.810 ppb	238.405 ppb	23,735.020 ppb	4.794 ppb	11.788 ppb	16.302 ppb	85.395 ppb	116.858 %
Concentration per Run 1	14.948 ppb	10.142 ppb	241.902 ppb	24,082.806 ppb	5.009 ppb	12.355 ppb	16.785 ppb	87.100 ppb	113.379 %
Concentration per Run 2	14.537 ppb	9.586 ppb	232.771 ppb	23,521.364 ppb	4.750 ppb	11.579 ppb	16.435 ppb	84.819 ppb	114.743 %
Concentration per Run 3	14.647 ppb	9.702 ppb	240.540 ppb	23,600.889 ppb	4.623 ppb	11.430 ppb	15.687 ppb	84.265 ppb	122.453 %
Concentration RSD	1.4 %	3.0 %	2.1 %	1.3 %	4.1 %	4.2 %	3.4 %	1.8 %	4.2 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	12.536 ppb	1.954 ppb	10.946 ppb	0.626 ppb	119.787 %	0.048 ppb	0.198 ppb	123.279 %	0.534 ppb
Concentration per Run 1	13.140 ppb	1.649 ppb	10.916 ppb	0.592 ppb	117.663 %	0.049 ppb	0.207 ppb	114.233 %	0.558 ppb
Concentration per Run 2	12.011 ppb	2.043 ppb	10.609 ppb	0.666 ppb	118.921 %	0.049 ppb	0.192 ppb	122.918 %	0.512 ppb
Concentration per Run 3	12.456 ppb	2.169 ppb	11.314 ppb	0.621 ppb	122.777 %	0.047 ppb	0.195 ppb	132.686 %	0.532 ppb
Concentration RSD	4.5 %	13.9 %	3.2 %	5.9 %	2.2 %	2.5 %	3.9 %	7.5 %	4.3 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	45.985 ppb	121.427 %	118.916 %	0.150 ppb	55.268 ppb
Concentration per Run 1	47.177 ppb	116.635 %	115.027 %	0.137 ppb	56.966 ppb
Concentration per Run 2	43.727 ppb	120.726 %	113.751 %	0.163 ppb	56.503 ppb
Concentration per Run 3	47.052 ppb	126.920 %	127.970 %	0.151 ppb	52.335 ppb
Concentration RSD	4.3 %	4.3 %	6.6 %	8.7 %	4.6 %

Alpha ICPMSQ Data with SRD

3/5/2024 5:01:37 AM

Analysis index:	57	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	WG1865915-2d10 A2-6020T	Rack	1		
Analysis started at:	3/4/2024 9:54:35 AM	Vial	33		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	83.087 %	111.874 %	9.411 ppb	1,855.648 ppb	1,773.636 ppb	361.772 ppb	1,855.346 ppb	1,946.442 ppb	113.466 %
Concentration per Run 1	84.575 %	116.161 %	9.513 ppb	1,844.496 ppb	1,778.617 ppb	367.567 ppb	1,851.339 ppb	2,006.306 ppb	115.066 %
Concentration per Run 2	83.071 %	110.818 %	9.421 ppb	1,871.666 ppb	1,773.770 ppb	364.125 ppb	1,904.224 ppb	1,879.477 ppb	113.086 %
Concentration per Run 3	81.614 %	108.641 %	9.299 ppb	1,850.782 ppb	1,768.523 ppb	353.624 ppb	1,810.474 ppb	1,953.544 ppb	112.246 %
Concentration RSD	1.8 %	3.5 %	1.1 %	0.8 %	0.3 %	2.0 %	2.5 %	3.3 %	1.3 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	91.206 ppb	35.362 ppb	91.362 ppb	235.605 ppb	96.177 ppb	97.276 ppb	47.960 ppb	85.920 ppb	109.421 %
Concentration per Run 1	91.575 ppb	35.870 ppb	92.139 ppb	237.812 ppb	98.802 ppb	100.047 ppb	49.321 ppb	86.497 ppb	107.921 %
Concentration per Run 2	90.965 ppb	34.847 ppb	92.354 ppb	231.608 ppb	95.380 ppb	96.316 ppb	47.821 ppb	86.075 ppb	111.666 %
Concentration per Run 3	91.080 ppb	35.369 ppb	89.592 ppb	237.394 ppb	94.348 ppb	95.464 ppb	46.737 ppb	85.189 ppb	108.676 %
Concentration RSD	0.4 %	1.4 %	1.7 %	1.5 %	2.4 %	2.5 %	2.7 %	0.8 %	1.8 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	21.909 ppb	19.501 ppb	169.092 ppb	176.719 ppb	114.108 %	9.292 ppb	9.764 ppb	116.825 %	74.954 ppb
Concentration per Run 1	22.739 ppb	20.110 ppb	170.567 ppb	176.577 ppb	116.232 %	9.446 ppb	9.899 ppb	116.301 %	75.572 ppb
Concentration per Run 2	21.478 ppb	19.500 ppb	167.863 ppb	175.271 ppb	113.452 %	9.170 ppb	9.735 ppb	117.936 %	73.701 ppb
Concentration per Run 3	21.511 ppb	18.892 ppb	168.847 ppb	178.309 ppb	112.640 %	9.259 ppb	9.659 ppb	116.240 %	75.588 ppb
Concentration RSD	3.3 %	3.1 %	0.8 %	0.9 %	1.7 %	1.5 %	1.3 %	0.8 %	1.4 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	374.011 ppb	116.888 %	115.569 %	21.448 ppb	100.468 ppb
Concentration per Run 1	380.743 ppb	115.307 %	114.689 %	21.764 ppb	99.765 ppb
Concentration per Run 2	375.325 ppb	117.461 %	116.067 %	21.431 ppb	101.025 ppb
Concentration per Run 3	365.965 ppb	117.897 %	115.950 %	21.150 ppb	100.614 ppb
Concentration RSD	2.0 %	1.2 %	0.7 %	1.4 %	0.6 %

Alpha ICPMSQ Data with SRD

3/5/2024 5:01:37 AM

Analysis index:	58	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	WG1865915-3d10 A2-6020T	Rack	1		
Analysis started at:	3/4/2024 9:59:14 AM	Vial	35		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	78.225 %	103.430 %	9.309 ppb	1,966.731 ppb	1,753.446 ppb	355.697 ppb	2,001.926 ppb	11,563.430 ppb	106.151 %
Concentration per Run 1	78.986 %	93.206 %	9.315 ppb	2,211.757 ppb	1,942.933 ppb	384.817 ppb	2,214.913 ppb	12,967.716 ppb	106.595 %
Concentration per Run 2	78.370 %	105.079 %	9.204 ppb	1,861.065 ppb	1,669.713 ppb	339.548 ppb	1,876.386 ppb	11,114.315 ppb	106.756 %
Concentration per Run 3	77.319 %	112.005 %	9.409 ppb	1,827.371 ppb	1,647.691 ppb	342.726 ppb	1,914.478 ppb	10,608.260 ppb	105.103 %
Concentration RSD	1.1 %	9.2 %	1.1 %	10.8 %	9.4 %	7.1 %	9.3 %	10.7 %	0.9 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	86.827 ppb	34.773 ppb	94.992 ppb	227.523 ppb	91.687 ppb	91.598 ppb	51.396 ppb	92.286 ppb	99.644 %
Concentration per Run 1	97.208 ppb	39.260 ppb	106.249 ppb	252.698 ppb	103.247 ppb	103.042 ppb	58.726 ppb	103.661 ppb	87.875 %
Concentration per Run 2	84.448 ppb	34.020 ppb	91.474 ppb	222.608 ppb	89.569 ppb	90.208 ppb	50.357 ppb	90.318 ppb	98.138 %
Concentration per Run 3	78.826 ppb	31.039 ppb	87.253 ppb	207.262 ppb	82.244 ppb	81.544 ppb	45.104 ppb	82.880 ppb	112.920 %
Concentration RSD	10.8 %	12.0 %	10.5 %	10.2 %	11.6 %	11.8 %	13.4 %	11.4 %	12.6 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	21.006 ppb	18.776 ppb	197.002 ppb	177.664 ppb	105.337 %	8.876 ppb	9.495 ppb	111.268 %	75.483 ppb
Concentration per Run 1	23.511 ppb	20.403 ppb	214.173 ppb	196.626 ppb	95.903 %	9.925 ppb	10.706 ppb	96.127 %	82.996 ppb
Concentration per Run 2	20.474 ppb	18.450 ppb	193.776 ppb	180.643 ppb	100.107 %	9.213 ppb	9.835 ppb	100.385 %	78.940 ppb
Concentration per Run 3	19.033 ppb	17.476 ppb	183.057 ppb	155.723 ppb	120.000 %	7.491 ppb	7.944 ppb	137.292 %	64.512 ppb
Concentration RSD	10.9 %	7.9 %	8.0 %	11.6 %	12.2 %	14.1 %	14.9 %	20.3 %	12.9 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	396.751 ppb	112.977 %	113.482 %	20.708 ppb	98.941 ppb
Concentration per Run 1	435.357 ppb	98.766 %	97.573 %	23.753 ppb	115.070 ppb
Concentration per Run 2	411.878 ppb	106.678 %	104.883 %	21.786 ppb	103.147 ppb
Concentration per Run 3	343.018 ppb	133.488 %	137.992 %	16.586 ppb	78.605 ppb
Concentration RSD	12.1 %	16.1 %	19.0 %	17.9 %	18.8 %

Alpha ICPMSQ Data with SRD

3/5/2024 5:01:37 AM

Analysis index:	59	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	WG1865915-5d10 A2-6020T	Rack	1		
Analysis started at:	3/4/2024 10:03:52 AM	Vial	37		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	76.165 %	96.636 %	52.544 ppb	5,275.820 ppb	5,205.563 ppb	56.125 ppb	5,272.343 ppb	10,555.527 ppb	93.005 %
Concentration per Run 1	77.809 %	89.248 %	52.424 ppb	5,701.697 ppb	5,581.377 ppb	58.489 ppb	5,604.833 ppb	11,248.368 ppb	93.419 %
Concentration per Run 2	76.605 %	101.121 %	52.420 ppb	4,878.348 ppb	4,842.815 ppb	54.347 ppb	4,902.411 ppb	9,917.457 ppb	93.484 %
Concentration per Run 3	74.080 %	99.538 %	52.789 ppb	5,247.414 ppb	5,192.496 ppb	55.539 ppb	5,309.785 ppb	10,500.757 ppb	92.111 %
Concentration RSD	2.5 %	6.7 %	0.4 %	7.8 %	7.1 %	3.8 %	6.7 %	6.3 %	0.8 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	50.678 ppb	50.812 ppb	55.349 ppb	5,298.297 ppb	53.020 ppb	53.116 ppb	55.631 ppb	54.592 ppb	97.498 %
Concentration per Run 1	57.811 ppb	57.794 ppb	61.659 ppb	5,910.538 ppb	59.930 ppb	60.049 ppb	63.165 ppb	61.429 ppb	86.300 %
Concentration per Run 2	45.929 ppb	46.963 ppb	50.619 ppb	4,972.545 ppb	50.267 ppb	50.019 ppb	53.285 ppb	51.912 ppb	98.104 %
Concentration per Run 3	48.295 ppb	47.678 ppb	53.768 ppb	5,011.808 ppb	48.865 ppb	49.281 ppb	50.444 ppb	50.434 ppb	108.090 %
Concentration RSD	12.4 %	11.9 %	10.3 %	10.0 %	11.4 %	11.3 %	12.0 %	10.9 %	11.2 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	50.677 ppb	45.126 ppb	67.536 ppb	55.193 ppb	99.012 %	0.607 ppb	53.269 ppb	100.347 %	56.749 ppb
Concentration per Run 1	56.339 ppb	48.646 ppb	72.634 ppb	59.914 ppb	92.389 %	0.626 ppb	57.267 ppb	92.904 %	60.758 ppb
Concentration per Run 2	48.881 ppb	42.296 ppb	63.965 ppb	52.546 ppb	100.297 %	0.606 ppb	51.278 ppb	100.804 %	54.453 ppb
Concentration per Run 3	46.812 ppb	44.434 ppb	66.010 ppb	53.119 ppb	104.349 %	0.588 ppb	51.261 ppb	107.333 %	55.035 ppb
Concentration RSD	9.9 %	7.2 %	6.7 %	7.4 %	6.1 %	3.2 %	6.5 %	7.2 %	6.1 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	69.822 ppb	104.035 %	103.052 %	54.267 ppb	55.399 ppb
Concentration per Run 1	73.201 ppb	98.174 %	96.756 %	58.030 ppb	58.826 ppb
Concentration per Run 2	66.727 ppb	104.695 %	102.973 %	51.926 ppb	54.628 ppb
Concentration per Run 3	69.537 ppb	109.237 %	109.428 %	52.846 ppb	52.743 ppb
Concentration RSD	4.6 %	5.3 %	6.1 %	6.1 %	5.6 %

Alpha ICPMSQ Data with SRD

3/5/2024 5:01:37 AM

Analysis index: 60
Analysis label: WG1865915-4d2 A2-6020T
Analysis started at: 3/4/2024 10:08:29 AM

User name ALPHALAB\Metals-Instrument
Rack 1
Vial 36

Comment <Comment>

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	83.703 %	104.024 %	0.014 ppb	1,533.689 ppb	544.167 ppb	89.588 ppb	1,673.148 ppb	52,013.295 ppb	123.134 %
Concentration per Run 1	85.661 %	95.976 %	0.014 ppb	1,623.967 ppb	584.156 ppb	96.797 ppb	1,765.231 ppb	55,673.197 ppb	124.872 %
Concentration per Run 2	84.400 %	105.871 %	0.017 ppb	1,514.544 ppb	522.326 ppb	88.279 ppb	1,665.738 ppb	49,750.172 ppb	123.690 %
Concentration per Run 3	81.049 %	110.224 %	0.012 ppb	1,462.557 ppb	526.018 ppb	83.688 ppb	1,588.476 ppb	50,616.517 ppb	120.841 %
Concentration RSD	2.8 %	7.0 %	15.8 %	5.4 %	6.4 %	7.4 %	5.3 %	6.2 %	1.7 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.022 ppb	0.276 ppb	46.699 ppb	215.085 ppb	0.289 ppb	0.272 ppb	28.084 ppb	44.558 ppb	102.650 %
Concentration per Run 1	0.027 ppb	0.286 ppb	49.602 ppb	235.163 ppb	0.330 ppb	0.286 ppb	30.199 ppb	48.780 ppb	93.266 %
Concentration per Run 2	0.045 ppb	0.281 ppb	45.051 ppb	207.499 ppb	0.271 ppb	0.290 ppb	27.308 ppb	43.241 ppb	105.251 %
Concentration per Run 3	-0.007 ppb	0.263 ppb	45.445 ppb	202.593 ppb	0.266 ppb	0.240 ppb	26.745 ppb	41.653 ppb	109.433 %
Concentration RSD	119.6 %	4.4 %	5.4 %	8.2 %	12.4 %	10.1 %	6.6 %	8.4 %	8.2 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.466 ppb	0.759 ppb	146.639 ppb	2.122 ppb	106.888 %	0.086 ppb	0.053 ppb	109.078 %	2.511 ppb
Concentration per Run 1	0.552 ppb	0.673 ppb	157.204 ppb	2.626 ppb	99.182 %	0.095 ppb	0.054 ppb	100.536 %	2.915 ppb
Concentration per Run 2	0.381 ppb	0.833 ppb	140.555 ppb	1.862 ppb	109.780 %	0.082 ppb	0.053 ppb	110.940 %	2.400 ppb
Concentration per Run 3	0.463 ppb	0.771 ppb	142.157 ppb	1.876 ppb	111.702 %	0.082 ppb	0.051 ppb	115.758 %	2.217 ppb
Concentration RSD	18.4 %	10.6 %	6.3 %	20.6 %	6.3 %	8.5 %	2.4 %	7.1 %	14.4 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	181.650 ppb	112.548 %	111.308 %	0.401 ppb	0.225 ppb
Concentration per Run 1	195.990 ppb	103.360 %	101.848 %	0.386 ppb	0.254 ppb
Concentration per Run 2	175.979 ppb	115.352 %	117.131 %	0.458 ppb	0.216 ppb
Concentration per Run 3	172.980 ppb	118.931 %	114.945 %	0.360 ppb	0.206 ppb
Concentration RSD	6.9 %	7.2 %	7.4 %	12.6 %	11.2 %

Alpha ICPMSQ Data with SRD

3/5/2024 5:01:37 AM

Analysis index:	61	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	I2366705-122d2 A2-6020T	Rack	1		
Analysis started at:	3/4/2024 10:13:08 AM	Vial	34		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	83.637 %	106.333 %	0.015 ppb	1,148.065 ppb	319.947 ppb	29.445 ppb	1,398.854 ppb	29,600.873 ppb	122.575 %
Concentration per Run 1	84.986 %	105.277 %	0.014 ppb	1,157.507 ppb	318.567 ppb	33.382 ppb	1,395.052 ppb	29,782.923 ppb	122.759 %
Concentration per Run 2	84.145 %	107.652 %	0.013 ppb	1,115.616 ppb	302.070 ppb	27.157 ppb	1,328.295 ppb	28,116.796 ppb	123.413 %
Concentration per Run 3	81.780 %	106.069 %	0.018 ppb	1,171.071 ppb	339.204 ppb	27.797 ppb	1,473.214 ppb	30,902.900 ppb	121.553 %
Concentration RSD	2.0 %	1.1 %	18.3 %	2.5 %	5.8 %	11.6 %	5.2 %	4.7 %	0.8 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.020 ppb	0.290 ppb	18.723 ppb	71.659 ppb	0.124 ppb	0.205 ppb	19.108 ppb	23.216 ppb	104.046 %
Concentration per Run 1	-0.011 ppb	0.309 ppb	18.987 ppb	71.895 ppb	0.144 ppb	0.229 ppb	19.156 ppb	23.565 ppb	103.918 %
Concentration per Run 2	-0.030 ppb	0.287 ppb	18.366 ppb	69.513 ppb	0.116 ppb	0.225 ppb	18.426 ppb	22.703 ppb	105.125 %
Concentration per Run 3	-0.017 ppb	0.275 ppb	18.817 ppb	73.568 ppb	0.112 ppb	0.160 ppb	19.742 ppb	23.379 ppb	103.096 %
Concentration RSD	50.0 %	5.9 %	1.7 %	2.8 %	14.3 %	18.9 %	3.4 %	2.0 %	1.0 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.216 ppb	0.334 ppb	73.572 ppb	0.661 ppb	112.914 %	0.109 ppb	0.018 ppb	114.541 %	0.877 ppb
Concentration per Run 1	0.185 ppb	0.290 ppb	74.603 ppb	0.584 ppb	114.348 %	0.109 ppb	0.019 ppb	114.908 %	0.862 ppb
Concentration per Run 2	0.286 ppb	0.302 ppb	70.124 ppb	0.697 ppb	111.333 %	0.116 ppb	0.023 ppb	110.924 %	0.869 ppb
Concentration per Run 3	0.178 ppb	0.409 ppb	75.989 ppb	0.702 ppb	113.060 %	0.103 ppb	0.013 ppb	117.792 %	0.899 ppb
Concentration RSD	28.1 %	19.7 %	4.2 %	10.0 %	1.3 %	5.9 %	25.9 %	3.0 %	2.2 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	83.712 ppb	117.891 %	115.439 %	0.127 ppb	0.105 ppb
Concentration per Run 1	85.038 ppb	117.631 %	117.348 %	0.082 ppb	0.103 ppb
Concentration per Run 2	81.743 ppb	115.147 %	110.670 %	0.159 ppb	0.109 ppb
Concentration per Run 3	84.353 ppb	120.893 %	118.298 %	0.140 ppb	0.103 ppb
Concentration RSD	2.1 %	2.4 %	3.6 %	31.6 %	3.1 %

Alpha ICPMSQ Data with SRD

3/5/2024 5:01:37 AM

Analysis index:	62	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	I2366705-123d2 A2-6020T	Rack	1		
Analysis started at:	3/4/2024 10:17:47 AM	Vial	39		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	82.078 %	105.673 %	0.017 ppb	2,455.803 ppb	832.406 ppb	753.879 ppb	3,019.032 ppb	78,908.817 ppb	115.242 %
Concentration per Run 1	83.110 %	102.705 %	0.007 ppb	2,595.592 ppb	864.254 ppb	787.974 ppb	3,196.247 ppb	83,889.802 ppb	114.730 %
Concentration per Run 2	82.639 %	106.464 %	0.022 ppb	2,364.936 ppb	820.193 ppb	753.028 ppb	3,011.134 ppb	78,058.508 ppb	116.185 %
Concentration per Run 3	80.486 %	107.850 %	0.023 ppb	2,406.880 ppb	812.773 ppb	720.635 ppb	2,849.714 ppb	74,778.143 ppb	114.810 %
Concentration RSD	1.7 %	2.5 %	51.7 %	5.0 %	3.3 %	4.5 %	5.7 %	5.8 %	0.7 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.012 ppb	0.512 ppb	66.020 ppb	375.561 ppb	0.512 ppb	0.563 ppb	56.346 ppb	64.955 ppb	101.656 %
Concentration per Run 1	-0.009 ppb	0.561 ppb	72.185 ppb	402.150 ppb	0.587 ppb	0.657 ppb	61.391 ppb	70.445 ppb	93.652 %
Concentration per Run 2	0.007 ppb	0.493 ppb	62.668 ppb	368.761 ppb	0.465 ppb	0.489 ppb	54.511 ppb	62.502 ppb	104.808 %
Concentration per Run 3	0.037 ppb	0.483 ppb	63.206 ppb	355.771 ppb	0.484 ppb	0.543 ppb	53.136 ppb	61.918 ppb	106.507 %
Concentration RSD	193.1 %	8.3 %	8.1 %	6.4 %	12.8 %	15.2 %	7.8 %	7.3 %	6.9 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.532 ppb	0.588 ppb	224.692 ppb	0.497 ppb	109.755 %	0.168 ppb	0.075 ppb	111.380 %	0.837 ppb
Concentration per Run 1	0.634 ppb	0.571 ppb	237.915 ppb	0.488 ppb	105.439 %	0.178 ppb	0.077 ppb	107.995 %	0.856 ppb
Concentration per Run 2	0.545 ppb	0.640 ppb	218.205 ppb	0.438 ppb	111.335 %	0.167 ppb	0.086 ppb	115.473 %	0.818 ppb
Concentration per Run 3	0.415 ppb	0.554 ppb	217.955 ppb	0.566 ppb	112.491 %	0.161 ppb	0.061 ppb	110.673 %	0.836 ppb
Concentration RSD	20.7 %	7.7 %	5.1 %	12.9 %	3.4 %	5.2 %	16.5 %	3.4 %	2.3 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	333.100 ppb	116.312 %	114.959 %	0.082 ppb	0.402 ppb
Concentration per Run 1	349.374 ppb	110.682 %	108.229 %	0.054 ppb	0.434 ppb
Concentration per Run 2	327.655 ppb	117.914 %	117.391 %	0.098 ppb	0.391 ppb
Concentration per Run 3	322.272 ppb	120.341 %	119.258 %	0.094 ppb	0.380 ppb
Concentration RSD	4.3 %	4.3 %	5.1 %	29.9 %	7.1 %

Alpha ICPMSQ Data with SRD

3/5/2024 5:01:37 AM

Analysis index:	63	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	WG1865915-6d10 A2-6020T	Rack	1		
Analysis started at:	3/4/2024 10:22:24 AM	Vial	38		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	85.199 %	107.190 %	0.011 ppb	215.386 ppb	63.762 ppb	7.287 ppb	257.617 ppb	5,661.324 ppb	103.580 %
Concentration per Run 1	88.187 %	104.881 %	0.016 ppb	218.243 ppb	63.912 ppb	8.459 ppb	275.258 ppb	5,969.187 ppb	105.128 %
Concentration per Run 2	84.922 %	110.027 %	0.013 ppb	212.079 ppb	65.315 ppb	6.223 ppb	264.568 ppb	5,579.313 ppb	103.476 %
Concentration per Run 3	82.488 %	106.662 %	0.004 ppb	215.835 ppb	62.058 ppb	7.178 ppb	233.025 ppb	5,435.474 ppb	102.135 %
Concentration RSD	3.4 %	2.4 %	55.9 %	1.4 %	2.6 %	15.4 %	8.5 %	4.9 %	1.4 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.008 ppb	0.166 ppb	3.825 ppb	21.385 ppb	0.031 ppb	0.078 ppb	3.579 ppb	4.978 ppb	108.077 %
Concentration per Run 1	0.001 ppb	0.162 ppb	4.058 ppb	19.533 ppb	0.035 ppb	0.065 ppb	3.680 ppb	5.072 ppb	106.003 %
Concentration per Run 2	-0.006 ppb	0.174 ppb	3.647 ppb	21.880 ppb	0.027 ppb	0.090 ppb	3.503 ppb	5.056 ppb	106.583 %
Concentration per Run 3	-0.019 ppb	0.163 ppb	3.770 ppb	22.743 ppb	0.032 ppb	0.080 ppb	3.553 ppb	4.804 ppb	111.644 %
Concentration RSD	127.2 %	3.9 %	5.5 %	7.8 %	13.2 %	15.6 %	2.6 %	3.0 %	2.9 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.093 ppb	0.112 ppb	13.798 ppb	0.143 ppb	113.222 %	0.022 ppb	0.006 ppb	113.520 %	0.161 ppb
Concentration per Run 1	0.111 ppb	0.022 ppb	13.994 ppb	0.140 ppb	112.374 %	0.022 ppb	0.005 ppb	114.113 %	0.166 ppb
Concentration per Run 2	0.078 ppb	0.177 ppb	13.782 ppb	0.121 ppb	114.929 %	0.023 ppb	0.009 ppb	111.981 %	0.150 ppb
Concentration per Run 3	0.089 ppb	0.136 ppb	13.618 ppb	0.169 ppb	112.365 %	0.022 ppb	0.004 ppb	114.464 %	0.166 ppb
Concentration RSD	18.3 %	72.2 %	1.4 %	16.7 %	1.3 %	3.1 %	47.3 %	1.2 %	5.7 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	16.201 ppb	114.422 %	112.870 %	0.048 ppb	0.059 ppb
Concentration per Run 1	16.637 ppb	112.156 %	112.204 %	0.032 ppb	0.067 ppb
Concentration per Run 2	16.235 ppb	115.452 %	112.199 %	0.055 ppb	0.059 ppb
Concentration per Run 3	15.731 ppb	115.656 %	114.206 %	0.055 ppb	0.051 ppb
Concentration RSD	2.8 %	1.7 %	1.0 %	28.0 %	13.5 %

Alpha ICPMSQ Data with SRD

3/5/2024 5:01:37 AM

Analysis index: 64
Analysis label: WG1890892-18d5 6020SL
Analysis started at: 3/4/2024 10:27:01 AM
User name ALPHALAB\Metals-Instrument
Rack 1
Vial 46
Comment <Comment>

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	78.697 %	108.377 %	0.012 ppb	25,130.080 ppb	4,546.014 ppb	0.336 ppb	3,444.029 ppb	24,578.769 ppb	97.177 %
Concentration per Run 1	80.195 %	108.641 %	0.014 ppb	25,091.438 ppb	4,542.370 ppb	0.006 ppb	3,394.858 ppb	24,820.869 ppb	98.230 %
Concentration per Run 2	78.291 %	108.048 %	0.011 ppb	25,385.219 ppb	4,573.922 ppb	1.071 ppb	3,436.930 ppb	24,589.944 ppb	96.984 %
Concentration per Run 3	77.606 %	108.443 %	0.012 ppb	24,913.583 ppb	4,521.751 ppb	-0.070 ppb	3,500.301 ppb	24,325.494 ppb	96.317 %
Concentration RSD	1.7 %	0.3 %	14.0 %	0.9 %	0.6 %	190.1 %	1.5 %	1.0 %	1.0 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.111 ppb	0.037 ppb	253.902 ppb	108.466 ppb	0.145 ppb	0.482 ppb	0.169 ppb	1.728 ppb	100.390 %
Concentration per Run 1	0.105 ppb	0.045 ppb	253.982 ppb	112.280 ppb	0.135 ppb	0.512 ppb	0.224 ppb	1.709 ppb	100.057 %
Concentration per Run 2	0.111 ppb	0.029 ppb	260.584 ppb	107.275 ppb	0.156 ppb	0.530 ppb	0.156 ppb	1.739 ppb	99.931 %
Concentration per Run 3	0.116 ppb	0.037 ppb	247.140 ppb	105.843 ppb	0.145 ppb	0.404 ppb	0.126 ppb	1.737 ppb	101.181 %
Concentration RSD	5.3 %	22.1 %	2.6 %	3.1 %	7.3 %	14.2 %	30.0 %	1.0 %	0.7 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	1.775 ppb	0.618 ppb	97.960 ppb	2.286 ppb	103.298 %	0.003 ppb	0.015 ppb	109.673 %	0.778 ppb
Concentration per Run 1	1.830 ppb	0.792 ppb	97.246 ppb	2.110 ppb	105.443 %	0.001 ppb	0.021 ppb	108.479 %	0.776 ppb
Concentration per Run 2	1.821 ppb	0.434 ppb	99.138 ppb	2.380 ppb	101.646 %	0.004 ppb	0.011 ppb	111.445 %	0.741 ppb
Concentration per Run 3	1.675 ppb	0.627 ppb	97.497 ppb	2.369 ppb	102.804 %	0.003 ppb	0.012 ppb	109.095 %	0.817 ppb
Concentration RSD	4.9 %	29.0 %	1.0 %	6.7 %	1.9 %	44.0 %	38.1 %	1.4 %	4.8 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	18.853 ppb	110.061 %	108.452 %	0.033 ppb	0.082 ppb
Concentration per Run 1	19.072 ppb	110.667 %	108.837 %	0.022 ppb	0.083 ppb
Concentration per Run 2	18.349 ppb	111.752 %	109.037 %	0.040 ppb	0.081 ppb
Concentration per Run 3	19.139 ppb	107.764 %	107.483 %	0.038 ppb	0.083 ppb
Concentration RSD	2.3 %	1.9 %	0.8 %	29.9 %	1.4 %

Alpha ICPMSQ Data with SRD

3/5/2024 5:01:37 AM

Analysis index:	65	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	CCV	Rack	0		
Analysis started at:	3/4/2024 10:31:39 AM	Vial	9		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	76.407 %	100.792 %	64.223 ppb	6,126.684 ppb	6,177.849 ppb	62.668 ppb	6,109.380 ppb	5,902.276 ppb	92.077 %
Concentration per Run 1	78.189 %	94.789 %	64.084 ppb	6,253.450 ppb	6,297.221 ppb	60.884 ppb	6,093.396 ppb	5,840.813 ppb	92.945 %
Concentration per Run 2	76.500 %	102.705 %	63.703 ppb	5,925.429 ppb	6,019.839 ppb	63.977 ppb	5,769.469 ppb	5,692.615 ppb	92.279 %
Concentration per Run 3	74.532 %	104.881 %	64.883 ppb	6,201.173 ppb	6,216.488 ppb	63.145 ppb	6,465.275 ppb	6,173.398 ppb	91.007 %
Recovery Percentage 1			107.039 %	102.111 %	102.964 %	104.447 %	101.823 %	98.371 %	
Concentration RSD	2.4 %	5.3 %	0.9 %	2.9 %	2.3 %	2.6 %	5.7 %	4.2 %	1.1 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	61.676 ppb	61.137 ppb	62.408 ppb	6,217.095 ppb	63.663 ppb	63.865 ppb	63.753 ppb	61.958 ppb	96.929 %
Concentration per Run 1	63.558 ppb	62.202 ppb	62.574 ppb	6,182.443 ppb	64.141 ppb	64.557 ppb	64.303 ppb	61.742 ppb	96.400 %
Concentration per Run 2	60.773 ppb	60.326 ppb	62.006 ppb	6,261.457 ppb	63.151 ppb	62.892 ppb	63.763 ppb	61.471 ppb	95.792 %
Concentration per Run 3	60.696 ppb	60.884 ppb	62.645 ppb	6,207.384 ppb	63.698 ppb	64.147 ppb	63.192 ppb	62.660 ppb	98.594 %
Recovery Percentage 1	102.793 %	101.895 %	104.014 %	103.618 %	106.105 %	106.442 %	106.254 %	103.263 %	
Concentration RSD	2.6 %	1.6 %	0.6 %	0.6 %	0.8 %	1.4 %	0.9 %	1.0 %	1.5 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	63.164 ppb	61.022 ppb	61.173 ppb	60.561 ppb	100.643 %	63.451 ppb	63.640 ppb	105.207 %	62.086 ppb
Concentration per Run 1	63.076 ppb	58.007 ppb	59.855 ppb	58.947 ppb	101.168 %	64.229 ppb	64.098 ppb	101.794 %	62.061 ppb
Concentration per Run 2	62.301 ppb	62.886 ppb	58.677 ppb	59.746 ppb	101.116 %	61.810 ppb	61.728 ppb	105.865 %	60.078 ppb
Concentration per Run 3	64.114 ppb	62.174 ppb	64.986 ppb	62.989 ppb	99.645 %	64.314 ppb	65.092 ppb	107.963 %	64.118 ppb
Recovery Percentage 1	105.273 %	101.704 %	101.954 %	100.935 %		105.752 %	106.066 %		103.477 %
Concentration RSD	1.4 %	4.3 %	5.5 %	3.5 %	0.9 %	2.2 %	2.7 %	3.0 %	3.3 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	62.816 ppb	107.368 %	107.018 %	63.941 ppb	64.424 ppb
Concentration per Run 1	63.140 ppb	108.282 %	106.696 %	63.324 ppb	64.658 ppb
Concentration per Run 2	60.282 ppb	107.325 %	107.048 %	62.889 ppb	63.405 ppb
Concentration per Run 3	65.027 ppb	106.497 %	107.310 %	65.611 ppb	65.209 ppb
Recovery Percentage 1	104.694 %			106.569 %	107.373 %
Concentration RSD	3.8 %	0.8 %	0.3 %	2.3 %	1.4 %

Alpha ICPMSQ Data with SRD

3/5/2024 5:01:37 AM

Analysis index:	66	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	CCB	Rack	0		
Analysis started at:	3/4/2024 10:36:21 AM	Vial	10		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	76.267 %	96.240 %	0.014 ppb	-6.064 ppb	0.416 ppb	-2.839 ppb	-2.171 ppb	1.967 ppb	86.386 %
Concentration per Run 1	77.264 %	94.987 %	0.012 ppb	-6.828 ppb	0.872 ppb	-3.022 ppb	-1.072 ppb	1.681 ppb	86.239 %
Concentration per Run 2	76.109 %	90.435 %	0.016 ppb	-5.036 ppb	-0.159 ppb	-2.936 ppb	-6.402 ppb	-2.104 ppb	86.358 %
Concentration per Run 3	75.427 %	103.298 %	0.013 ppb	-6.328 ppb	0.534 ppb	-2.560 ppb	0.961 ppb	6.324 ppb	86.561 %
Recovery Percentage 1			2.772 %	-6.064 %	0.594 %	-28.394 %	-2.171 %	1.967 %	
Concentration RSD	1.2 %	6.8 %	13.8 %	15.2 %	126.6 %	8.7 %	175.1 %	214.6 %	0.2 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.022 ppb	-0.012 ppb	0.051 ppb	13.528 ppb	0.000 ppb	0.004 ppb	-0.002 ppb	0.287 ppb	95.564 %
Concentration per Run 1	-0.021 ppb	-0.013 ppb	0.083 ppb	12.321 ppb	0.002 ppb	-0.011 ppb	0.001 ppb	0.287 ppb	87.903 %
Concentration per Run 2	-0.014 ppb	-0.002 ppb	0.029 ppb	15.435 ppb	0.000 ppb	0.042 ppb	-0.005 ppb	0.296 ppb	93.052 %
Concentration per Run 3	-0.030 ppb	-0.021 ppb	0.042 ppb	12.828 ppb	-0.002 ppb	-0.019 ppb	-0.001 ppb	0.278 ppb	105.738 %
Recovery Percentage 1	-0.432 %	-1.210 %	5.134 %	27.056 %	-0.069 %	0.194 %	-0.168 %	5.740 %	
Concentration RSD	37.3 %	78.5 %	55.4 %	12.4 %	529.7 %	855.0 %	191.8 %	3.1 %	9.6 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.068 ppb	0.421 ppb	0.008 ppb	0.889 ppb	100.155 %	0.006 ppb	0.003 ppb	103.379 %	0.113 ppb
Concentration per Run 1	0.082 ppb	0.577 ppb	0.009 ppb	0.956 ppb	93.332 %	0.010 ppb	0.006 ppb	96.352 %	0.101 ppb
Concentration per Run 2	0.054 ppb	0.465 ppb	0.006 ppb	0.803 ppb	100.319 %	0.007 ppb	0.003 ppb	100.169 %	0.113 ppb
Concentration per Run 3	0.067 ppb	0.221 ppb	0.009 ppb	0.908 ppb	106.815 %	0.002 ppb	0.001 ppb	113.615 %	0.126 ppb
Recovery Percentage 1	13.546 %	8.418 %	0.083 %	44.457 %		1.585 %	1.677 %		2.833 %
Concentration RSD	21.1 %	43.3 %	19.3 %	8.8 %	6.7 %	67.4 %	79.5 %	8.8 %	10.9 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	0.001 ppb	104.378 %	104.775 %	0.411 ppb	0.028 ppb
Concentration per Run 1	0.006 ppb	96.517 %	95.398 %	0.390 ppb	0.040 ppb
Concentration per Run 2	0.000 ppb	103.101 %	102.524 %	0.468 ppb	0.027 ppb
Concentration per Run 3	-0.002 ppb	113.515 %	116.404 %	0.375 ppb	0.018 ppb
Recovery Percentage 1	0.253 %			41.125 %	2.811 %
Concentration RSD	338.6 %	8.2 %	10.2 %	12.2 %	38.3 %

Alpha ICPMSQ Data with SRD

3/5/2024 5:01:37 AM

Analysis index:	67	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	WG1890892-13 6020SL	Rack	1		
Analysis started at:	3/4/2024 10:42:29 AM	Vial	40		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	80.236 %	102.243 %	0.008 ppb	67.989 ppb	38.867 ppb	-0.756 ppb	11.310 ppb	144.625 ppb	92.320 %
Concentration per Run 1	81.467 %	103.496 %	0.011 ppb	73.862 ppb	41.266 ppb	-0.562 ppb	13.719 ppb	130.279 ppb	93.293 %
Concentration per Run 2	80.390 %	103.298 %	0.005 ppb	64.911 ppb	38.560 ppb	-1.505 ppb	7.121 ppb	153.726 ppb	92.013 %
Concentration per Run 3	78.850 %	99.934 %	0.009 ppb	65.193 ppb	36.775 ppb	-0.202 ppb	13.090 ppb	149.869 ppb	91.653 %
Concentration RSD	1.6 %	2.0 %	33.4 %	7.5 %	5.8 %	89.0 %	32.2 %	8.7 %	0.9 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.027 ppb	0.118 ppb	0.092 ppb	6.333 ppb	0.003 ppb	0.236 ppb	4.073 ppb	0.393 ppb	93.049 %
Concentration per Run 1	-0.023 ppb	0.147 ppb	0.085 ppb	7.610 ppb	0.005 ppb	0.129 ppb	4.166 ppb	0.409 ppb	95.647 %
Concentration per Run 2	-0.029 ppb	0.098 ppb	0.110 ppb	6.382 ppb	0.003 ppb	0.183 ppb	3.883 ppb	0.412 ppb	94.626 %
Concentration per Run 3	-0.028 ppb	0.110 ppb	0.080 ppb	5.008 ppb	0.001 ppb	0.395 ppb	4.169 ppb	0.358 ppb	88.875 %
Concentration RSD	13.6 %	21.4 %	17.5 %	20.6 %	52.7 %	59.6 %	4.0 %	7.7 %	3.9 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.074 ppb	0.054 ppb	0.534 ppb	0.262 ppb	99.666 %	0.000 ppb	0.002 ppb	99.125 %	0.079 ppb
Concentration per Run 1	0.101 ppb	0.104 ppb	0.585 ppb	0.243 ppb	98.210 %	0.001 ppb	0.001 ppb	101.039 %	0.067 ppb
Concentration per Run 2	0.069 ppb	-0.018 ppb	0.523 ppb	0.280 ppb	100.989 %	0.000 ppb	0.002 ppb	101.258 %	0.092 ppb
Concentration per Run 3	0.053 ppb	0.076 ppb	0.494 ppb	0.263 ppb	99.800 %	-0.001 ppb	0.002 ppb	95.078 %	0.079 ppb
Concentration RSD	32.6 %	118.5 %	8.7 %	7.2 %	1.4 %	458,955.1 %	43.3 %	3.5 %	15.7 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	0.185 ppb	101.554 %	99.324 %	0.106 ppb	0.010 ppb
Concentration per Run 1	0.224 ppb	100.972 %	101.465 %	0.068 ppb	0.010 ppb
Concentration per Run 2	0.216 ppb	103.116 %	100.120 %	0.125 ppb	0.010 ppb
Concentration per Run 3	0.116 ppb	100.575 %	96.386 %	0.126 ppb	0.010 ppb
Concentration RSD	32.4 %	1.3 %	2.6 %	31.2 %	1.0 %

Alpha ICPMSQ Data with SRD

3/5/2024 5:01:37 AM

Analysis index:	68	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	WG1890892-14d20 6020SL	Rack	1		
Analysis started at:	3/4/2024 10:47:06 AM	Vial	41		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	68.987 %	104.288 %	3.154 ppb	551.617 ppb	483.694 ppb	95.346 ppb	484.198 ppb	435.717 ppb	85.190 %
Concentration per Run 1	78.829 %	111.808 %	2.629 ppb	531.093 ppb	477.937 ppb	95.615 ppb	480.184 ppb	464.932 ppb	97.062 %
Concentration per Run 2	68.647 %	100.726 %	3.174 ppb	587.598 ppb	508.549 ppb	100.899 ppb	487.283 ppb	384.193 ppb	81.716 %
Concentration per Run 3	59.485 %	100.330 %	3.658 ppb	536.159 ppb	464.595 ppb	89.524 ppb	485.127 ppb	458.026 ppb	76.791 %
Concentration RSD	14.0 %	6.2 %	16.3 %	5.7 %	4.7 %	6.0 %	0.8 %	10.3 %	12.4 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	24.111 ppb	9.853 ppb	24.218 ppb	59.902 ppb	26.116 ppb	26.401 ppb	13.273 ppb	24.859 ppb	96.411 %
Concentration per Run 1	24.005 ppb	9.653 ppb	23.798 ppb	69.632 ppb	25.598 ppb	26.491 ppb	12.756 ppb	24.627 ppb	100.210 %
Concentration per Run 2	23.605 ppb	9.900 ppb	25.125 ppb	55.202 ppb	26.062 ppb	26.286 ppb	13.201 ppb	24.581 ppb	99.674 %
Concentration per Run 3	24.722 ppb	10.004 ppb	23.733 ppb	54.872 ppb	26.688 ppb	26.427 ppb	13.862 ppb	25.369 ppb	89.350 %
Concentration RSD	2.3 %	1.8 %	3.2 %	14.1 %	2.1 %	0.4 %	4.2 %	1.8 %	6.3 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	6.327 ppb	5.732 ppb	47.450 ppb	46.965 ppb	103.054 %	2.526 ppb	2.675 ppb	105.151 %	19.489 ppb
Concentration per Run 1	6.622 ppb	5.996 ppb	49.027 ppb	45.741 ppb	104.370 %	2.507 ppb	2.630 ppb	108.134 %	19.132 ppb
Concentration per Run 2	6.248 ppb	5.697 ppb	46.749 ppb	46.489 ppb	105.066 %	2.546 ppb	2.659 ppb	107.943 %	19.334 ppb
Concentration per Run 3	6.112 ppb	5.503 ppb	46.573 ppb	48.664 ppb	99.727 %	2.524 ppb	2.738 ppb	99.377 %	20.002 ppb
Concentration RSD	4.2 %	4.3 %	2.9 %	3.2 %	2.8 %	0.8 %	2.1 %	4.8 %	2.3 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	101.798 ppb	108.189 %	106.545 %	6.150 ppb	28.177 ppb
Concentration per Run 1	103.686 ppb	110.829 %	110.118 %	5.883 ppb	27.419 ppb
Concentration per Run 2	100.733 ppb	108.841 %	108.188 %	6.152 ppb	28.256 ppb
Concentration per Run 3	100.974 ppb	104.897 %	101.328 %	6.414 ppb	28.857 ppb
Concentration RSD	1.6 %	2.8 %	4.3 %	4.3 %	2.6 %

Alpha ICPMSQ Data with SRD

3/5/2024 5:01:37 AM

Analysis index:	69	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	WG1890892-15d20 6020SL	Rack	1		
Analysis started at:	3/4/2024 10:51:43 AM	Vial	43		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	77.913 %	100.528 %	2.793 ppb	6,410.405 ppb	1,588.479 ppb	94.919 ppb	1,335.458 ppb	6,601.354 ppb	92.306 %
Concentration per Run 1	80.691 %	103.100 %	2.811 ppb	6,556.215 ppb	1,630.426 ppb	97.222 ppb	1,420.975 ppb	6,762.262 ppb	93.710 %
Concentration per Run 2	76.065 %	103.496 %	2.815 ppb	6,320.843 ppb	1,548.149 ppb	94.797 ppb	1,374.962 ppb	6,757.870 ppb	90.325 %
Concentration per Run 3	76.982 %	94.987 %	2.753 ppb	6,354.156 ppb	1,586.864 ppb	92.737 ppb	1,210.438 ppb	6,283.929 ppb	92.882 %
Concentration RSD	3.1 %	4.8 %	1.2 %	2.0 %	2.6 %	2.4 %	8.3 %	4.2 %	1.9 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	25.381 ppb	10.083 ppb	88.976 ppb	83.528 ppb	26.676 ppb	27.167 ppb	13.701 ppb	25.829 ppb	93.804 %
Concentration per Run 1	25.432 ppb	10.347 ppb	91.842 ppb	89.181 ppb	27.363 ppb	28.135 ppb	14.191 ppb	26.656 ppb	91.966 %
Concentration per Run 2	24.768 ppb	9.701 ppb	87.667 ppb	84.515 ppb	26.833 ppb	26.693 ppb	13.109 ppb	26.267 ppb	95.396 %
Concentration per Run 3	25.941 ppb	10.199 ppb	87.419 ppb	76.888 ppb	25.834 ppb	26.674 ppb	13.801 ppb	24.565 ppb	94.051 %
Concentration RSD	2.3 %	3.4 %	2.8 %	7.4 %	2.9 %	3.1 %	4.0 %	4.3 %	1.8 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	6.730 ppb	6.575 ppb	73.390 ppb	51.860 ppb	98.684 %	2.629 ppb	2.803 ppb	101.958 %	23.002 ppb
Concentration per Run 1	7.294 ppb	6.931 ppb	76.881 ppb	52.541 ppb	96.425 %	2.697 ppb	2.896 ppb	98.858 %	24.075 ppb
Concentration per Run 2	6.513 ppb	6.316 ppb	73.361 ppb	50.337 ppb	101.019 %	2.574 ppb	2.772 ppb	106.494 %	22.459 ppb
Concentration per Run 3	6.384 ppb	6.479 ppb	69.928 ppb	52.701 ppb	98.609 %	2.617 ppb	2.739 ppb	100.520 %	22.470 ppb
Concentration RSD	7.3 %	4.8 %	4.7 %	2.5 %	2.3 %	2.4 %	2.9 %	3.9 %	4.0 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	109.761 ppb	105.649 %	103.365 %	6.481 ppb	29.269 ppb
Concentration per Run 1	112.835 ppb	104.454 %	101.651 %	6.637 ppb	30.180 ppb
Concentration per Run 2	109.833 ppb	108.196 %	106.360 %	6.318 ppb	28.558 ppb
Concentration per Run 3	106.614 ppb	104.297 %	102.083 %	6.489 ppb	29.070 ppb
Concentration RSD	2.8 %	2.1 %	2.5 %	2.5 %	2.8 %

Alpha ICPMSQ Data with SRD

3/5/2024 5:01:37 AM

Analysis index:	70	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	WG1890892-16d20 6020SL	Rack	1		
Analysis started at:	3/4/2024 10:56:21 AM	Vial	44		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	77.668 %	96.702 %	2.764 ppb	6,623.579 ppb	1,644.444 ppb	95.844 ppb	1,324.325 ppb	6,573.988 ppb	93.047 %
Concentration per Run 1	78.377 %	96.174 %	2.769 ppb	6,833.137 ppb	1,713.887 ppb	97.805 ppb	1,389.667 ppb	6,952.043 ppb	93.669 %
Concentration per Run 2	77.888 %	102.902 %	2.768 ppb	6,420.806 ppb	1,549.514 ppb	94.198 ppb	1,290.274 ppb	6,409.346 ppb	93.802 %
Concentration per Run 3	76.739 %	91.029 %	2.754 ppb	6,616.793 ppb	1,669.932 ppb	95.530 ppb	1,293.034 ppb	6,360.574 ppb	91.671 %
Concentration RSD	1.1 %	6.2 %	0.3 %	3.1 %	5.2 %	1.9 %	4.3 %	5.0 %	1.3 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	25.725 ppb	10.262 ppb	91.190 ppb	80.753 ppb	27.050 ppb	27.250 ppb	13.525 ppb	25.512 ppb	94.288 %
Concentration per Run 1	25.679 ppb	10.560 ppb	95.559 ppb	81.489 ppb	27.711 ppb	27.644 ppb	13.695 ppb	26.436 ppb	93.304 %
Concentration per Run 2	25.563 ppb	10.061 ppb	91.142 ppb	83.154 ppb	26.734 ppb	27.354 ppb	13.230 ppb	24.940 ppb	96.280 %
Concentration per Run 3	25.932 ppb	10.164 ppb	86.868 ppb	77.617 ppb	26.707 ppb	26.752 ppb	13.650 ppb	25.162 ppb	93.279 %
Concentration RSD	0.7 %	2.6 %	4.8 %	3.5 %	2.1 %	1.7 %	1.9 %	3.2 %	1.8 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	6.930 ppb	5.723 ppb	72.108 ppb	51.398 ppb	100.363 %	2.621 ppb	2.753 ppb	104.181 %	23.293 ppb
Concentration per Run 1	7.332 ppb	5.609 ppb	74.910 ppb	52.021 ppb	98.129 %	2.678 ppb	2.835 ppb	100.724 %	24.224 ppb
Concentration per Run 2	6.720 ppb	5.712 ppb	72.367 ppb	51.433 ppb	101.847 %	2.587 ppb	2.778 ppb	108.072 %	23.199 ppb
Concentration per Run 3	6.739 ppb	5.850 ppb	69.047 ppb	50.739 ppb	101.113 %	2.598 ppb	2.646 ppb	103.746 %	22.457 ppb
Concentration RSD	5.0 %	2.1 %	4.1 %	1.2 %	2.0 %	1.9 %	3.5 %	3.5 %	3.8 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	107.815 ppb	104.781 %	103.363 %	6.440 ppb	28.918 ppb
Concentration per Run 1	113.505 ppb	103.649 %	102.313 %	6.573 ppb	29.337 ppb
Concentration per Run 2	108.757 ppb	105.706 %	106.425 %	6.223 ppb	28.237 ppb
Concentration per Run 3	101.183 ppb	104.989 %	101.352 %	6.523 ppb	29.180 ppb
Concentration RSD	5.8 %	1.0 %	2.6 %	2.9 %	2.1 %

Alpha ICPMSQ Data with SRD

3/5/2024 5:01:37 AM

Analysis index:	71	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	WG1890892-17d10 6020SL	Rack	1		
Analysis started at:	3/4/2024 11:00:59 AM	Vial	45		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	74.450 %	94.657 %	52.921 ppb	17,792.397 ppb	7,207.682 ppb	50.391 ppb	6,472.399 ppb	16,667.076 ppb	93.414 %
Concentration per Run 1	75.811 %	102.902 %	52.345 ppb	16,294.733 ppb	6,596.168 ppb	47.295 ppb	5,975.797 ppb	15,656.399 ppb	94.504 %
Concentration per Run 2	74.608 %	85.884 %	52.804 ppb	19,249.068 ppb	7,687.560 ppb	55.903 ppb	6,982.158 ppb	17,987.364 ppb	93.946 %
Concentration per Run 3	72.931 %	95.185 %	53.614 ppb	17,833.390 ppb	7,339.317 ppb	47.976 ppb	6,459.242 ppb	16,357.465 ppb	91.792 %
Concentration RSD	1.9 %	9.0 %	1.2 %	8.3 %	7.7 %	9.5 %	7.8 %	7.2 %	1.5 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	50.101 ppb	49.636 ppb	177.515 ppb	5,151.335 ppb	51.324 ppb	51.766 ppb	51.055 ppb	50.382 ppb	93.200 %
Concentration per Run 1	48.871 ppb	47.750 ppb	171.771 ppb	5,014.484 ppb	50.656 ppb	50.909 ppb	50.426 ppb	49.454 ppb	94.396 %
Concentration per Run 2	52.011 ppb	52.148 ppb	184.695 ppb	5,351.108 ppb	53.184 ppb	53.333 ppb	52.254 ppb	51.574 ppb	91.370 %
Concentration per Run 3	49.422 ppb	49.010 ppb	176.078 ppb	5,088.412 ppb	50.133 ppb	51.057 ppb	50.484 ppb	50.117 ppb	93.834 %
Concentration RSD	3.3 %	4.6 %	3.7 %	3.4 %	3.2 %	2.6 %	2.0 %	2.2 %	1.7 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	50.992 ppb	49.665 ppb	98.005 ppb	52.915 ppb	97.020 %	0.572 ppb	51.914 ppb	99.916 %	51.809 ppb
Concentration per Run 1	50.515 ppb	45.642 ppb	96.197 ppb	50.908 ppb	99.429 %	0.548 ppb	50.502 ppb	102.103 %	50.897 ppb
Concentration per Run 2	51.613 ppb	51.315 ppb	100.384 ppb	54.543 ppb	94.546 %	0.606 ppb	53.770 ppb	98.118 %	52.302 ppb
Concentration per Run 3	50.848 ppb	52.038 ppb	97.435 ppb	53.293 ppb	97.086 %	0.561 ppb	51.472 ppb	99.526 %	52.228 ppb
Concentration RSD	1.1 %	7.1 %	2.2 %	3.5 %	2.5 %	5.4 %	3.2 %	2.0 %	1.5 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	60.354 ppb	105.749 %	105.465 %	50.518 ppb	52.289 ppb
Concentration per Run 1	56.933 ppb	109.160 %	107.777 %	49.366 ppb	50.983 ppb
Concentration per Run 2	62.687 ppb	102.555 %	102.332 %	52.158 ppb	54.239 ppb
Concentration per Run 3	61.441 ppb	105.532 %	106.287 %	50.031 ppb	51.644 ppb
Concentration RSD	5.0 %	3.1 %	2.7 %	2.9 %	3.3 %

Alpha ICPMSQ Data with SRD

3/5/2024 5:01:37 AM

Analysis index:	72	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	I2410279-03 6020SL	Rack	1		
Analysis started at:	3/4/2024 11:05:37 AM	Vial	42		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	75.319 %	96.372 %	0.013 ppb	122,673.082 ppb	21,986.127 ppb	3.999 ppb	16,138.759 ppb	118,160.244 ppb	101.629 %
Concentration per Run 1	76.404 %	98.549 %	0.017 ppb	117,068.183 ppb	20,931.031 ppb	2.847 ppb	15,687.552 ppb	114,038.016 ppb	101.224 %
Concentration per Run 2	75.968 %	96.570 %	0.009 ppb	123,865.123 ppb	22,482.907 ppb	3.578 ppb	16,334.530 ppb	120,414.857 ppb	102.716 %
Concentration per Run 3	73.585 %	93.997 %	0.012 ppb	127,085.939 ppb	22,544.442 ppb	5.573 ppb	16,394.196 ppb	120,027.860 ppb	100.947 %
Concentration RSD	2.0 %	2.4 %	31.8 %	4.2 %	4.2 %	35.3 %	2.4 %	3.0 %	0.9 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.602 ppb	0.168 ppb	1,214.134 ppb	498.434 ppb	0.577 ppb	1.970 ppb	0.322 ppb	7.325 ppb	93.381 %
Concentration per Run 1	0.653 ppb	0.176 ppb	1,163.035 ppb	481.579 ppb	0.518 ppb	1.837 ppb	0.310 ppb	7.254 ppb	92.723 %
Concentration per Run 2	0.649 ppb	0.170 ppb	1,268.040 ppb	522.591 ppb	0.640 ppb	2.165 ppb	0.326 ppb	7.437 ppb	91.724 %
Concentration per Run 3	0.505 ppb	0.157 ppb	1,211.328 ppb	491.133 ppb	0.573 ppb	1.909 ppb	0.329 ppb	7.285 ppb	95.694 %
Concentration RSD	14.0 %	5.8 %	4.3 %	4.3 %	10.6 %	8.8 %	3.2 %	1.3 %	2.2 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	8.215 ppb	3.084 ppb	467.994 ppb	12.167 ppb	93.107 %	0.003 ppb	0.066 ppb	99.808 %	4.026 ppb
Concentration per Run 1	8.010 ppb	3.711 ppb	458.565 ppb	11.815 ppb	93.161 %	0.002 ppb	0.064 ppb	95.586 %	4.184 ppb
Concentration per Run 2	8.375 ppb	2.909 ppb	476.548 ppb	12.455 ppb	93.162 %	0.003 ppb	0.069 ppb	102.604 %	3.923 ppb
Concentration per Run 3	8.260 ppb	2.632 ppb	468.869 ppb	12.232 ppb	92.997 %	0.003 ppb	0.066 ppb	101.234 %	3.971 ppb
Concentration RSD	2.3 %	18.2 %	1.9 %	2.7 %	0.1 %	19.5 %	3.4 %	3.7 %	3.5 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	91.378 ppb	103.924 %	104.143 %	0.347 ppb	0.205 ppb
Concentration per Run 1	93.220 ppb	103.456 %	104.090 %	0.279 ppb	0.206 ppb
Concentration per Run 2	90.591 ppb	104.153 %	106.172 %	0.410 ppb	0.201 ppb
Concentration per Run 3	90.323 ppb	104.164 %	102.168 %	0.351 ppb	0.208 ppb
Concentration RSD	1.8 %	0.4 %	1.9 %	18.9 %	1.7 %

Alpha ICPMSQ Data with SRD

3/5/2024 5:01:37 AM

Analysis index: 73
Analysis label: xl2410279-01 6020SL
Analysis started at: 3/4/2024 11:10:15 AM
User name ALPHALAB\Metals-Instrument
Rack 1
Vial 47
Comment <Comment>

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	77.337 %	100.330 %	0.011 ppb	91,701.205 ppb	16,445.591 ppb	1.919 ppb	24,735.991 ppb	121,945.118 ppb	97.606 %
Concentration per Run 1	78.275 %	91.623 %	0.012 ppb	100,289.778 ppb	17,809.837 ppb	2.011 ppb	26,933.466 ppb	132,527.004 ppb	97.937 %
Concentration per Run 2	77.554 %	103.298 %	0.008 ppb	88,615.850 ppb	16,012.353 ppb	1.315 ppb	23,245.947 ppb	115,801.534 ppb	97.007 %
Concentration per Run 3	76.181 %	106.069 %	0.012 ppb	86,197.987 ppb	15,514.583 ppb	2.430 ppb	24,028.561 ppb	117,506.817 ppb	97.874 %
Concentration RSD	1.4 %	7.6 %	22.5 %	8.2 %	7.3 %	29.3 %	7.9 %	7.5 %	0.5 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	1.334 ppb	0.139 ppb	173.224 ppb	20.051 ppb	0.288 ppb	1.839 ppb	0.308 ppb	6.128 ppb	92.350 %
Concentration per Run 1	1.369 ppb	0.184 ppb	180.043 ppb	20.331 ppb	0.319 ppb	1.911 ppb	0.307 ppb	6.650 ppb	90.076 %
Concentration per Run 2	1.444 ppb	0.124 ppb	175.294 ppb	20.030 ppb	0.278 ppb	1.908 ppb	0.300 ppb	6.046 ppb	92.616 %
Concentration per Run 3	1.191 ppb	0.108 ppb	164.334 ppb	19.793 ppb	0.267 ppb	1.699 ppb	0.316 ppb	5.690 ppb	94.360 %
Concentration RSD	9.7 %	28.7 %	4.7 %	1.3 %	9.6 %	6.6 %	2.6 %	7.9 %	2.3 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	113.403 ppb	3.791 ppb	863.073 ppb	48.447 ppb	90.931 %	0.000 ppb	0.015 ppb	95.902 %	2.609 ppb
Concentration per Run 1	116.593 ppb	3.750 ppb	903.215 ppb	50.133 ppb	86.605 %	0.000 ppb	0.018 ppb	88.721 %	2.761 ppb
Concentration per Run 2	113.788 ppb	3.857 ppb	859.670 ppb	48.888 ppb	90.510 %	0.001 ppb	0.018 ppb	94.944 %	2.639 ppb
Concentration per Run 3	109.827 ppb	3.766 ppb	826.332 ppb	46.319 ppb	95.678 %	0.000 ppb	0.009 ppb	104.041 %	2.427 ppb
Concentration RSD	3.0 %	1.5 %	4.5 %	4.0 %	5.0 %	185.2 %	32.9 %	8.0 %	6.5 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	114.992 ppb	102.307 %	100.576 %	0.113 ppb	0.241 ppb
Concentration per Run 1	123.913 ppb	94.236 %	95.121 %	0.081 ppb	0.261 ppb
Concentration per Run 2	115.788 ppb	100.819 %	97.431 %	0.137 ppb	0.247 ppb
Concentration per Run 3	105.274 ppb	111.866 %	109.176 %	0.120 ppb	0.215 ppb
Concentration RSD	8.1 %	8.7 %	7.5 %	25.7 %	9.7 %

Alpha ICPMSQ Data with SRD

3/5/2024 5:01:37 AM

Analysis index:	74	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	I2410279-02 6020SL	Rack	1		
Analysis started at:	3/4/2024 11:14:53 AM	Vial	48		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	74.917 %	97.625 %	0.010 ppb	182,084.257 ppb	30,753.819 ppb	-0.676 ppb	31,011.042 ppb	119,155.149 ppb	101.480 %
Concentration per Run 1	77.155 %	92.810 %	0.006 ppb	187,987.837 ppb	32,330.055 ppb	-0.518 ppb	31,705.631 ppb	123,533.941 ppb	103.881 %
Concentration per Run 2	74.508 %	99.340 %	0.015 ppb	180,742.275 ppb	30,312.790 ppb	-0.786 ppb	30,727.031 ppb	117,453.088 ppb	99.481 %
Concentration per Run 3	73.089 %	100.726 %	0.010 ppb	177,522.660 ppb	29,618.611 ppb	-0.725 ppb	30,600.462 ppb	116,478.417 ppb	101.077 %
Concentration RSD	2.8 %	4.3 %	47.1 %	2.9 %	4.6 %	20.8 %	2.0 %	3.2 %	2.2 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.215 ppb	0.209 ppb	996.653 ppb	2,680.428 ppb	0.638 ppb	15.725 ppb	0.177 ppb	1.347 ppb	93.270 %
Concentration per Run 1	0.133 ppb	0.213 ppb	1,022.873 ppb	2,799.140 ppb	0.645 ppb	16.946 ppb	0.127 ppb	1.411 ppb	88.990 %
Concentration per Run 2	0.208 ppb	0.208 ppb	964.547 ppb	2,585.911 ppb	0.634 ppb	14.929 ppb	0.204 ppb	1.265 ppb	96.115 %
Concentration per Run 3	0.305 ppb	0.207 ppb	1,002.540 ppb	2,656.235 ppb	0.634 ppb	15.300 ppb	0.199 ppb	1.366 ppb	94.706 %
Concentration RSD	40.1 %	1.5 %	3.0 %	4.1 %	1.0 %	6.8 %	24.5 %	5.6 %	4.0 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	8.041 ppb	0.292 ppb	484.581 ppb	6.279 ppb	91.580 %	0.002 ppb	0.002 ppb	97.151 %	0.812 ppb
Concentration per Run 1	8.222 ppb	0.175 ppb	501.962 ppb	6.514 ppb	88.329 %	0.004 ppb	0.001 ppb	94.037 %	0.800 ppb
Concentration per Run 2	7.942 ppb	0.287 ppb	469.276 ppb	6.017 ppb	92.957 %	0.002 ppb	0.002 ppb	97.580 %	0.820 ppb
Concentration per Run 3	7.960 ppb	0.414 ppb	482.505 ppb	6.307 ppb	93.453 %	0.000 ppb	0.003 ppb	99.835 %	0.816 ppb
Concentration RSD	1.9 %	41.0 %	3.4 %	4.0 %	3.1 %	84.8 %	56.1 %	3.0 %	1.3 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	199.765 ppb	102.378 %	101.851 %	0.067 ppb	0.064 ppb
Concentration per Run 1	209.191 ppb	98.383 %	97.418 %	0.040 ppb	0.067 ppb
Concentration per Run 2	195.302 ppb	103.135 %	102.846 %	0.083 ppb	0.069 ppb
Concentration per Run 3	194.802 ppb	105.616 %	105.291 %	0.077 ppb	0.057 ppb
Concentration RSD	4.1 %	3.6 %	4.0 %	35.2 %	9.7 %

Alpha ICPMSQ Data with SRD

3/5/2024 5:01:37 AM

Analysis index:	75	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	I2410279-04 6020SL	Rack	1		
Analysis started at:	3/4/2024 11:19:32 AM	Vial	49		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	76.352 %	95.778 %	0.598 ppb	45,004.840 ppb	6,727.378 ppb	-0.111 ppb	9,886.702 ppb	54,407.924 ppb	93.416 %
Concentration per Run 1	77.188 %	89.050 %	0.608 ppb	47,666.622 ppb	7,069.400 ppb	-0.395 ppb	10,226.015 ppb	56,599.909 ppb	93.047 %
Concentration per Run 2	76.134 %	93.404 %	0.598 ppb	45,198.191 ppb	6,841.697 ppb	0.357 ppb	10,135.789 ppb	54,898.859 ppb	93.580 %
Concentration per Run 3	75.734 %	104.881 %	0.586 ppb	42,149.709 ppb	6,271.038 ppb	-0.295 ppb	9,298.301 ppb	51,725.002 ppb	93.621 %
Concentration RSD	1.0 %	8.5 %	1.8 %	6.1 %	6.1 %	368.3 %	5.2 %	4.5 %	0.3 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.733 ppb	0.614 ppb	756.404 ppb	459.060 ppb	0.830 ppb	2.337 ppb	0.792 ppb	1.267 ppb	91.782 %
Concentration per Run 1	0.774 ppb	0.628 ppb	797.863 ppb	490.833 ppb	0.826 ppb	2.494 ppb	0.897 ppb	1.369 ppb	85.004 %
Concentration per Run 2	0.731 ppb	0.547 ppb	753.106 ppb	460.990 ppb	0.840 ppb	2.425 ppb	0.711 ppb	1.239 ppb	95.118 %
Concentration per Run 3	0.693 ppb	0.667 ppb	718.242 ppb	425.357 ppb	0.825 ppb	2.091 ppb	0.766 ppb	1.192 ppb	95.225 %
Concentration RSD	5.5 %	10.0 %	5.3 %	7.1 %	1.1 %	9.2 %	12.1 %	7.3 %	6.4 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	13.795 ppb	0.596 ppb	204.739 ppb	6.514 ppb	92.710 %	0.006 ppb	0.598 ppb	94.169 %	0.980 ppb
Concentration per Run 1	15.011 ppb	0.659 ppb	210.788 ppb	6.672 ppb	87.243 %	0.008 ppb	0.676 ppb	85.965 %	1.048 ppb
Concentration per Run 2	13.273 ppb	0.537 ppb	199.984 ppb	6.402 ppb	96.345 %	0.006 ppb	0.588 ppb	97.088 %	0.943 ppb
Concentration per Run 3	13.100 ppb	0.593 ppb	203.447 ppb	6.467 ppb	94.541 %	0.005 ppb	0.532 ppb	99.454 %	0.947 ppb
Concentration RSD	7.7 %	10.3 %	2.7 %	2.2 %	5.2 %	29.6 %	12.2 %	7.6 %	6.1 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	49.997 ppb	99.965 %	98.145 %	0.653 ppb	0.694 ppb
Concentration per Run 1	51.878 ppb	93.966 %	90.526 %	0.676 ppb	0.745 ppb
Concentration per Run 2	50.448 ppb	101.815 %	100.952 %	0.655 ppb	0.683 ppb
Concentration per Run 3	47.664 ppb	104.113 %	102.958 %	0.630 ppb	0.653 ppb
Concentration RSD	4.3 %	5.3 %	6.8 %	3.5 %	6.7 %

Alpha ICPMSQ Data with SRD

3/5/2024 5:01:37 AM

Analysis index:	76	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	I2410279-05 6020SL	Rack	1		
Analysis started at:	3/4/2024 11:24:10 AM	Vial	50		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	76.951 %	104.749 %	0.008 ppb	123,381.965 ppb	22,414.582 ppb	-0.684 ppb	16,918.523 ppb	122,779.648 ppb	96.777 %
Concentration per Run 1	79.127 %	98.549 %	0.012 ppb	130,438.676 ppb	23,072.237 ppb	-0.613 ppb	17,730.573 ppb	128,165.425 ppb	98.998 %
Concentration per Run 2	76.616 %	106.464 %	0.007 ppb	119,466.366 ppb	22,084.887 ppb	-0.682 ppb	16,394.295 ppb	118,698.957 ppb	95.724 %
Concentration per Run 3	75.110 %	109.235 %	0.004 ppb	120,240.853 ppb	22,086.622 ppb	-0.755 ppb	16,630.701 ppb	121,474.561 ppb	95.610 %
Concentration RSD	2.6 %	5.3 %	50.6 %	5.0 %	2.5 %	10.4 %	4.2 %	4.0 %	2.0 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.494 ppb	0.175 ppb	1,251.617 ppb	432.883 ppb	0.617 ppb	2.044 ppb	0.355 ppb	7.464 ppb	93.073 %
Concentration per Run 1	0.561 ppb	0.196 ppb	1,307.490 ppb	463.786 ppb	0.646 ppb	1.987 ppb	0.386 ppb	8.135 ppb	86.507 %
Concentration per Run 2	0.465 ppb	0.142 ppb	1,228.589 ppb	422.160 ppb	0.643 ppb	2.092 ppb	0.352 ppb	6.975 ppb	94.719 %
Concentration per Run 3	0.456 ppb	0.186 ppb	1,218.773 ppb	412.703 ppb	0.562 ppb	2.052 ppb	0.328 ppb	7.281 ppb	97.992 %
Concentration RSD	11.8 %	16.5 %	3.9 %	6.3 %	7.7 %	2.6 %	8.2 %	8.1 %	6.4 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	8.367 ppb	2.947 ppb	491.610 ppb	11.630 ppb	92.838 %	0.002 ppb	0.005 ppb	97.055 %	3.907 ppb
Concentration per Run 1	9.068 ppb	3.122 ppb	517.534 ppb	12.131 ppb	89.158 %	0.005 ppb	0.005 ppb	90.957 %	4.185 ppb
Concentration per Run 2	8.075 ppb	2.949 ppb	486.480 ppb	11.642 ppb	94.094 %	0.002 ppb	0.007 ppb	99.248 %	3.853 ppb
Concentration per Run 3	7.959 ppb	2.770 ppb	470.817 ppb	11.116 ppb	95.263 %	0.000 ppb	0.002 ppb	100.960 %	3.682 ppb
Concentration RSD	7.3 %	6.0 %	4.8 %	4.4 %	3.5 %	97.8 %	53.4 %	5.5 %	6.5 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	94.146 ppb	103.181 %	102.473 %	0.047 ppb	0.284 ppb
Concentration per Run 1	97.752 ppb	98.868 %	94.572 %	0.032 ppb	0.317 ppb
Concentration per Run 2	93.884 ppb	104.926 %	104.843 %	0.055 ppb	0.273 ppb
Concentration per Run 3	90.802 ppb	105.748 %	108.004 %	0.053 ppb	0.261 ppb
Concentration RSD	3.7 %	3.6 %	6.9 %	26.4 %	10.4 %

Alpha ICPMSQ Data with SRD

3/5/2024 5:01:37 AM

Analysis index:	77	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	CCV	Rack	0		
Analysis started at:	3/4/2024 11:28:47 AM	Vial	9		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	76.101 %	103.166 %	63.517 ppb	6,080.754 ppb	6,138.116 ppb	57.015 ppb	5,906.864 ppb	5,904.086 ppb	100.972 %
Concentration per Run 1	77.066 %	101.319 %	63.135 ppb	6,375.779 ppb	6,445.773 ppb	58.857 ppb	6,234.182 ppb	6,458.301 ppb	100.583 %
Concentration per Run 2	76.117 %	103.694 %	64.056 ppb	5,811.415 ppb	5,847.214 ppb	57.048 ppb	5,652.345 ppb	5,548.907 ppb	101.110 %
Concentration per Run 3	75.120 %	104.486 %	63.359 ppb	6,055.068 ppb	6,121.359 ppb	55.139 ppb	5,834.066 ppb	5,705.051 ppb	101.223 %
Recovery Percentage 1			105.861 %	101.346 %	102.302 %	95.024 %	98.448 %	98.401 %	
Concentration RSD	1.3 %	1.6 %	0.8 %	4.7 %	4.9 %	3.3 %	5.0 %	8.2 %	0.3 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	60.105 ppb	60.257 ppb	61.264 ppb	6,246.724 ppb	63.961 ppb	63.382 ppb	64.696 ppb	62.319 ppb	94.380 %
Concentration per Run 1	64.644 ppb	64.907 ppb	67.445 ppb	6,695.605 ppb	69.683 ppb	69.197 ppb	70.074 ppb	67.516 ppb	89.142 %
Concentration per Run 2	57.088 ppb	56.620 ppb	55.110 ppb	5,919.884 ppb	59.467 ppb	58.489 ppb	59.459 ppb	57.315 ppb	99.633 %
Concentration per Run 3	58.582 ppb	59.242 ppb	61.237 ppb	6,124.682 ppb	62.734 ppb	62.460 ppb	64.554 ppb	62.125 ppb	94.365 %
Recovery Percentage 1	100.175 %	100.428 %	102.107 %	104.112 %	106.602 %	105.637 %	107.826 %	103.864 %	
Concentration RSD	6.7 %	7.0 %	10.1 %	6.4 %	8.2 %	8.5 %	8.2 %	8.2 %	5.6 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	63.960 ppb	59.899 ppb	60.229 ppb	61.618 ppb	99.452 %	64.076 ppb	64.264 ppb	102.565 %	61.284 ppb
Concentration per Run 1	70.508 ppb	67.945 ppb	66.889 ppb	67.794 ppb	90.361 %	72.884 ppb	73.736 ppb	90.196 %	70.252 ppb
Concentration per Run 2	58.853 ppb	54.072 ppb	55.508 ppb	56.462 ppb	106.004 %	58.618 ppb	59.039 ppb	108.620 %	56.493 ppb
Concentration per Run 3	62.518 ppb	57.681 ppb	58.291 ppb	60.597 ppb	101.992 %	60.727 ppb	60.016 ppb	108.879 %	57.106 ppb
Recovery Percentage 1	106.599 %	99.832 %	100.382 %	102.696 %		106.794 %	107.106 %		102.140 %
Concentration RSD	9.3 %	12.0 %	9.9 %	9.3 %	8.2 %	12.0 %	12.8 %	10.4 %	12.7 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	62.755 ppb	105.076 %	103.328 %	64.835 ppb	66.029 ppb
Concentration per Run 1	70.883 ppb	93.614 %	91.064 %	72.626 ppb	76.484 ppb
Concentration per Run 2	58.263 ppb	111.360 %	109.989 %	59.850 ppb	59.895 ppb
Concentration per Run 3	59.119 ppb	110.255 %	108.930 %	62.029 ppb	61.706 ppb
Recovery Percentage 1	104.592 %			108.059 %	110.048 %
Concentration RSD	11.2 %	9.5 %	10.3 %	10.5 %	13.8 %

Alpha ICPMSQ Data with SRD

3/5/2024 5:01:37 AM

Analysis index:	78	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	CCB	Rack	0		
Analysis started at:	3/4/2024 11:33:29 AM	Vial	10		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	74.537 %	102.111 %	0.015 ppb	7.385 ppb	0.992 ppb	-2.968 ppb	-0.294 ppb	8.303 ppb	91.928 %
Concentration per Run 1	74.605 %	100.726 %	0.014 ppb	10.294 ppb	1.205 ppb	-2.883 ppb	-2.722 ppb	11.071 ppb	90.757 %
Concentration per Run 2	74.962 %	106.069 %	0.014 ppb	5.698 ppb	0.167 ppb	-2.909 ppb	3.214 ppb	6.675 ppb	93.079 %
Concentration per Run 3	74.044 %	99.538 %	0.018 ppb	6.163 ppb	1.604 ppb	-3.113 ppb	-1.374 ppb	7.163 ppb	91.946 %
Recovery Percentage 1			3.039 %	7.385 %	1.417 %	-29.683 %	-0.294 %	8.303 %	
Concentration RSD	0.6 %	3.4 %	15.6 %	34.3 %	74.8 %	4.2 %	1,058.3 %	29.0 %	1.3 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.020 ppb	0.002 ppb	0.093 ppb	14.644 ppb	0.005 ppb	0.007 ppb	0.006 ppb	0.104 ppb	91.620 %
Concentration per Run 1	-0.021 ppb	0.005 ppb	0.093 ppb	17.558 ppb	0.009 ppb	0.007 ppb	0.000 ppb	0.084 ppb	88.365 %
Concentration per Run 2	-0.016 ppb	-0.003 ppb	0.096 ppb	14.198 ppb	0.001 ppb	0.002 ppb	0.023 ppb	0.081 ppb	94.972 %
Concentration per Run 3	-0.022 ppb	0.004 ppb	0.090 ppb	12.177 ppb	0.005 ppb	0.011 ppb	-0.005 ppb	0.149 ppb	91.524 %
Recovery Percentage 1	-0.392 %	0.198 %	9.342 %	29.289 %	0.983 %	0.326 %	0.610 %	2.089 %	
Concentration RSD	16.3 %	198.4 %	3.2 %	18.6 %	75.8 %	69.6 %	244.4 %	36.6 %	3.6 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.100 ppb	0.309 ppb	0.034 ppb	0.985 ppb	99.831 %	0.007 ppb	0.006 ppb	105.003 %	0.111 ppb
Concentration per Run 1	0.109 ppb	0.394 ppb	0.030 ppb	0.973 ppb	98.867 %	0.009 ppb	0.006 ppb	102.928 %	0.114 ppb
Concentration per Run 2	0.079 ppb	0.157 ppb	0.031 ppb	0.961 ppb	100.456 %	0.007 ppb	0.006 ppb	106.226 %	0.115 ppb
Concentration per Run 3	0.110 ppb	0.376 ppb	0.040 ppb	1.023 ppb	100.170 %	0.004 ppb	0.008 ppb	105.854 %	0.103 ppb
Recovery Percentage 1	19.947 %	6.179 %	0.340 %	49.269 %		1.757 %	3.173 %		2.775 %
Concentration RSD	17.6 %	42.7 %	16.4 %	3.3 %	0.8 %	35.8 %	21.0 %	1.7 %	5.9 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	0.011 ppb	105.411 %	104.017 %	0.384 ppb	0.020 ppb
Concentration per Run 1	0.015 ppb	104.531 %	102.613 %	0.325 ppb	0.026 ppb
Concentration per Run 2	0.009 ppb	105.186 %	103.468 %	0.456 ppb	0.019 ppb
Concentration per Run 3	0.009 ppb	106.515 %	105.970 %	0.372 ppb	0.015 ppb
Recovery Percentage 1	2.220 %			38.432 %	2.009 %
Concentration RSD	29.8 %	1.0 %	1.7 %	17.3 %	27.5 %

Alpha ICPMSQ Data with SRD

3/5/2024 5:01:37 AM

Analysis index:	79	User name	ALPHALAB\Metals-Instrument	Comment	FB
Analysis label:	I2410279-06 6020SL	Rack	1		
Analysis started at:	3/4/2024 11:38:57 AM	Vial	51		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	78.851 %	105.211 %	0.012 ppb	183.627 ppb	84.721 ppb	2.111 ppb	45.034 ppb	293.826 ppb	97.920 %
Concentration per Run 1	80.172 %	101.715 %	0.012 ppb	192.948 ppb	92.268 ppb	1.637 ppb	57.762 ppb	298.921 ppb	98.347 %
Concentration per Run 2	78.729 %	106.662 %	0.010 ppb	178.160 ppb	76.363 ppb	2.920 ppb	36.815 ppb	273.313 ppb	97.466 %
Concentration per Run 3	77.653 %	107.256 %	0.014 ppb	179.771 ppb	85.533 ppb	1.778 ppb	40.524 ppb	309.243 ppb	97.947 %
Concentration RSD	1.6 %	2.9 %	20.4 %	4.4 %	9.4 %	33.3 %	24.8 %	6.3 %	0.5 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.025 ppb	0.055 ppb	0.257 ppb	8.267 ppb	0.006 ppb	0.044 ppb	0.147 ppb	0.411 ppb	94.637 %
Concentration per Run 1	-0.022 ppb	0.070 ppb	0.218 ppb	6.300 ppb	0.012 ppb	0.030 ppb	0.143 ppb	0.438 ppb	89.666 %
Concentration per Run 2	-0.036 ppb	0.035 ppb	0.270 ppb	9.038 ppb	-0.001 ppb	0.046 ppb	0.150 ppb	0.432 ppb	97.663 %
Concentration per Run 3	-0.016 ppb	0.061 ppb	0.284 ppb	9.462 ppb	0.008 ppb	0.058 ppb	0.148 ppb	0.363 ppb	96.582 %
Concentration RSD	41.6 %	33.1 %	13.4 %	20.8 %	99.2 %	31.1 %	2.4 %	10.2 %	4.6 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.058 ppb	0.083 ppb	1.114 ppb	0.408 ppb	101.786 %	0.002 ppb	0.004 ppb	105.718 %	0.080 ppb
Concentration per Run 1	0.092 ppb	0.062 ppb	1.138 ppb	0.446 ppb	100.725 %	0.003 ppb	0.007 ppb	104.034 %	0.076 ppb
Concentration per Run 2	0.034 ppb	0.036 ppb	1.096 ppb	0.313 ppb	102.641 %	0.000 ppb	0.003 ppb	103.722 %	0.085 ppb
Concentration per Run 3	0.048 ppb	0.152 ppb	1.107 ppb	0.465 ppb	101.992 %	0.002 ppb	0.001 ppb	109.397 %	0.081 ppb
Concentration RSD	52.9 %	72.7 %	2.0 %	20.4 %	1.0 %	92.2 %	84.6 %	3.0 %	5.6 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	0.338 ppb	107.009 %	104.415 %	0.127 ppb	0.024 ppb
Concentration per Run 1	0.373 ppb	106.282 %	102.867 %	0.091 ppb	0.028 ppb
Concentration per Run 2	0.330 ppb	107.619 %	105.368 %	0.150 ppb	0.026 ppb
Concentration per Run 3	0.312 ppb	107.126 %	105.011 %	0.139 ppb	0.018 ppb
Concentration RSD	9.2 %	0.6 %	1.3 %	24.8 %	21.7 %

Alpha ICPMSQ Data with SRD

3/5/2024 5:01:37 AM

Analysis index: 80
Analysis label: I2410279-01d10 6020SL
Analysis started at: 3/4/2024 11:46:08 AM
User name ALPHALAB\Metals-Instrument
Rack 1
Vial 55
Comment <Comment>

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	80.648 %	106.069 %	0.008 ppb	18,426.815 ppb	3,343.593 ppb	-2.043 ppb	4,799.827 ppb	24,048.090 ppb	108.266 %
Concentration per Run 1	82.056 %	102.111 %	0.008 ppb	18,621.613 ppb	3,396.234 ppb	-2.068 ppb	5,031.528 ppb	24,969.763 ppb	108.979 %
Concentration per Run 2	81.221 %	113.193 %	0.010 ppb	17,170.348 ppb	3,084.253 ppb	-2.171 ppb	4,459.565 ppb	22,602.354 ppb	108.455 %
Concentration per Run 3	78.667 %	102.902 %	0.005 ppb	19,488.484 ppb	3,550.293 ppb	-1.891 ppb	4,908.387 ppb	24,572.153 ppb	107.363 %
Concentration RSD	2.2 %	5.8 %	34.5 %	6.4 %	7.1 %	6.9 %	6.3 %	5.3 %	0.8 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.273 ppb	0.035 ppb	34.056 ppb	7.464 ppb	0.046 ppb	0.385 ppb	0.073 ppb	1.712 ppb	95.084 %
Concentration per Run 1	0.291 ppb	0.042 ppb	34.829 ppb	7.357 ppb	0.054 ppb	0.432 ppb	0.073 ppb	1.697 ppb	91.162 %
Concentration per Run 2	0.297 ppb	0.022 ppb	33.246 ppb	6.765 ppb	0.046 ppb	0.287 ppb	0.053 ppb	1.729 ppb	94.411 %
Concentration per Run 3	0.232 ppb	0.041 ppb	34.093 ppb	8.271 ppb	0.037 ppb	0.437 ppb	0.093 ppb	1.711 ppb	99.678 %
Concentration RSD	13.2 %	31.8 %	2.3 %	10.2 %	18.5 %	22.1 %	27.5 %	0.9 %	4.5 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	22.378 ppb	0.661 ppb	165.452 ppb	9.016 ppb	99.793 %	0.002 ppb	0.003 ppb	108.381 %	0.473 ppb
Concentration per Run 1	22.601 ppb	0.777 ppb	170.307 ppb	9.078 ppb	99.137 %	0.003 ppb	0.003 ppb	111.828 %	0.442 ppb
Concentration per Run 2	22.404 ppb	0.499 ppb	160.032 ppb	9.064 ppb	97.361 %	0.002 ppb	0.003 ppb	103.822 %	0.471 ppb
Concentration per Run 3	22.129 ppb	0.706 ppb	166.018 ppb	8.906 ppb	102.879 %	0.002 ppb	0.002 ppb	109.495 %	0.505 ppb
Concentration RSD	1.1 %	21.9 %	3.1 %	1.1 %	2.8 %	19.2 %	26.4 %	3.8 %	6.7 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	21.109 ppb	112.685 %	109.435 %	0.079 ppb	0.056 ppb
Concentration per Run 1	21.024 ppb	117.870 %	115.047 %	0.064 ppb	0.054 ppb
Concentration per Run 2	20.642 ppb	108.006 %	103.686 %	0.091 ppb	0.058 ppb
Concentration per Run 3	21.659 ppb	112.180 %	109.571 %	0.081 ppb	0.056 ppb
Concentration RSD	2.4 %	4.4 %	5.2 %	17.5 %	4.1 %

Alpha ICPMSQ Data with SRD

3/5/2024 5:01:37 AM

Analysis index:	81	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	I2410539-04 6020SL	Rack	1		
Analysis started at:	3/4/2024 11:50:45 AM	Vial	52		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	74.107 %	98.879 %	0.024 ppb	329,743.622 ppb	68,179.655 ppb	3.024 ppb	12,682.316 ppb	274,126.201 ppb	101.392 %
Concentration per Run 1	75.860 %	98.945 %	0.022 ppb	332,639.802 ppb	67,654.272 ppb	3.126 ppb	12,976.167 ppb	282,461.980 ppb	102.547 %
Concentration per Run 2	74.735 %	96.372 %	0.024 ppb	327,976.749 ppb	67,752.494 ppb	3.186 ppb	12,244.555 ppb	264,249.479 ppb	102.419 %
Concentration per Run 3	71.727 %	101.319 %	0.025 ppb	328,614.315 ppb	69,132.201 ppb	2.760 ppb	12,826.228 ppb	275,667.144 ppb	99.209 %
Concentration RSD	2.9 %	2.5 %	7.3 %	0.8 %	1.2 %	7.6 %	3.0 %	3.4 %	1.9 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.078 ppb	0.113 ppb	6,303.926 ppb	11.161 ppb	17.914 ppb	14.866 ppb	0.450 ppb	0.615 ppb	92.210 %
Concentration per Run 1	0.078 ppb	0.122 ppb	6,527.383 ppb	14.561 ppb	18.395 ppb	14.878 ppb	0.373 ppb	0.726 ppb	89.426 %
Concentration per Run 2	0.084 ppb	0.108 ppb	6,084.394 ppb	10.478 ppb	17.756 ppb	14.893 ppb	0.512 ppb	0.545 ppb	92.300 %
Concentration per Run 3	0.073 ppb	0.110 ppb	6,300.000 ppb	8.445 ppb	17.591 ppb	14.828 ppb	0.465 ppb	0.575 ppb	94.903 %
Concentration RSD	7.2 %	6.4 %	3.5 %	27.9 %	2.4 %	0.2 %	15.7 %	15.8 %	3.0 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.649 ppb	0.663 ppb	815.282 ppb	22.055 ppb	92.159 %	0.003 ppb	0.210 ppb	97.392 %	0.170 ppb
Concentration per Run 1	0.653 ppb	0.471 ppb	852.008 ppb	22.647 ppb	91.096 %	0.001 ppb	0.213 ppb	98.615 %	0.158 ppb
Concentration per Run 2	0.635 ppb	0.645 ppb	764.348 ppb	21.778 ppb	91.678 %	0.003 ppb	0.215 ppb	94.097 %	0.184 ppb
Concentration per Run 3	0.658 ppb	0.873 ppb	829.489 ppb	21.742 ppb	93.704 %	0.005 ppb	0.201 ppb	99.464 %	0.168 ppb
Concentration RSD	1.9 %	30.3 %	5.6 %	2.3 %	1.5 %	59.9 %	3.7 %	3.0 %	7.8 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	49.179 ppb	104.044 %	102.588 %	0.094 ppb	0.019 ppb
Concentration per Run 1	50.547 ppb	102.714 %	100.995 %	0.080 ppb	0.021 ppb
Concentration per Run 2	47.806 ppb	102.146 %	100.656 %	0.100 ppb	0.017 ppb
Concentration per Run 3	49.183 ppb	107.272 %	106.114 %	0.102 ppb	0.020 ppb
Concentration RSD	2.8 %	2.7 %	3.0 %	12.8 %	10.8 %

Alpha ICPMSQ Data with SRD

3/5/2024 5:01:37 AM

Analysis index:	82	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	I2410539-06 6020SL	Rack	1		
Analysis started at:	3/4/2024 11:55:23 AM	Vial	53		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	76.226 %	97.559 %	0.017 ppb	756,587.980 ppb	23,354.447 ppb	9.340 ppb	9,669.443 ppb	101,528.409 ppb	103.220 %
Concentration per Run 1	78.374 %	94.591 %	0.027 ppb	788,584.598 ppb	24,331.390 ppb	10.075 ppb	10,371.573 ppb	105,476.368 ppb	104.182 %
Concentration per Run 2	75.841 %	102.111 %	0.013 ppb	729,413.689 ppb	22,721.746 ppb	8.748 ppb	9,177.970 ppb	98,277.143 ppb	103.173 %
Concentration per Run 3	74.464 %	95.976 %	0.012 ppb	751,765.652 ppb	23,010.206 ppb	9.198 ppb	9,458.786 ppb	100,831.717 ppb	102.305 %
Concentration RSD	2.6 %	4.1 %	47.6 %	3.9 %	3.7 %	7.2 %	6.5 %	3.6 %	0.9 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.093 ppb	0.099 ppb	1,315.590 ppb	6.296 ppb	0.389 ppb	0.712 ppb	0.499 ppb	0.839 ppb	94.619 %
Concentration per Run 1	0.140 ppb	0.097 ppb	1,341.796 ppb	6.230 ppb	0.445 ppb	0.708 ppb	0.617 ppb	0.843 ppb	93.337 %
Concentration per Run 2	0.092 ppb	0.091 ppb	1,298.604 ppb	6.507 ppb	0.340 ppb	0.701 ppb	0.428 ppb	0.790 ppb	96.134 %
Concentration per Run 3	0.048 ppb	0.109 ppb	1,306.369 ppb	6.150 ppb	0.381 ppb	0.728 ppb	0.452 ppb	0.883 ppb	94.385 %
Concentration RSD	49.7 %	9.2 %	1.8 %	3.0 %	13.6 %	2.0 %	20.6 %	5.6 %	1.5 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.638 ppb	0.839 ppb	753.191 ppb	21.758 ppb	90.716 %	0.003 ppb	0.007 ppb	96.421 %	0.303 ppb
Concentration per Run 1	0.658 ppb	1.084 ppb	767.901 ppb	21.647 ppb	89.583 %	0.005 ppb	0.005 ppb	95.287 %	0.324 ppb
Concentration per Run 2	0.621 ppb	0.843 ppb	742.567 ppb	21.193 ppb	92.092 %	0.002 ppb	0.015 ppb	97.359 %	0.268 ppb
Concentration per Run 3	0.636 ppb	0.591 ppb	749.104 ppb	22.435 ppb	90.472 %	0.002 ppb	0.002 ppb	96.616 %	0.317 ppb
Concentration RSD	2.9 %	29.4 %	1.7 %	2.9 %	1.4 %	58.0 %	91.7 %	1.1 %	10.0 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	92.145 ppb	101.289 %	100.641 %	0.046 ppb	0.016 ppb
Concentration per Run 1	94.824 ppb	99.985 %	97.985 %	0.033 ppb	0.017 ppb
Concentration per Run 2	91.059 ppb	102.543 %	102.322 %	0.052 ppb	0.015 ppb
Concentration per Run 3	90.551 ppb	101.339 %	101.617 %	0.052 ppb	0.015 ppb
Concentration RSD	2.5 %	1.3 %	2.3 %	24.0 %	6.2 %

Alpha ICPMSQ Data with SRD

3/5/2024 5:01:37 AM

Analysis index:	83	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	I2410792-01 6020SL	Rack	1		
Analysis started at:	3/4/2024 12:00:00 PM	Vial	54		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	74.338 %	93.338 %	0.016 ppb	37,613.695 ppb	13,957.756 ppb	3.606 ppb	16,729.434 ppb	98,655.186 ppb	106.580 %
Concentration per Run 1	75.382 %	95.976 %	0.020 ppb	37,273.250 ppb	13,848.448 ppb	4.024 ppb	16,778.123 ppb	100,103.921 ppb	106.784 %
Concentration per Run 2	73.862 %	91.425 %	0.015 ppb	38,737.154 ppb	14,197.286 ppb	4.308 ppb	16,927.355 ppb	101,007.025 ppb	105.454 %
Concentration per Run 3	73.770 %	92.612 %	0.014 ppb	36,830.681 ppb	13,827.535 ppb	2.488 ppb	16,482.824 ppb	94,854.612 ppb	107.504 %
Concentration RSD	1.2 %	2.5 %	20.9 %	2.7 %	1.5 %	27.2 %	1.4 %	3.4 %	1.0 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.288 ppb	0.458 ppb	1,043.454 ppb	30,158.156 ppb	1.137 ppb	0.793 ppb	0.175 ppb	0.487 ppb	90.546 %
Concentration per Run 1	0.285 ppb	0.400 ppb	1,038.798 ppb	29,793.081 ppb	1.139 ppb	0.834 ppb	0.147 ppb	0.474 ppb	90.644 %
Concentration per Run 2	0.322 ppb	0.504 ppb	1,058.474 ppb	30,556.258 ppb	1.113 ppb	0.858 ppb	0.196 ppb	0.500 ppb	92.635 %
Concentration per Run 3	0.258 ppb	0.470 ppb	1,033.090 ppb	30,125.129 ppb	1.160 ppb	0.689 ppb	0.181 ppb	0.487 ppb	88.358 %
Concentration RSD	11.1 %	11.6 %	1.3 %	1.3 %	2.1 %	11.5 %	14.3 %	2.7 %	2.4 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	4.841 ppb	0.150 ppb	366.851 ppb	0.425 ppb	91.672 %	0.000 ppb	0.004 ppb	95.584 %	0.068 ppb
Concentration per Run 1	4.911 ppb	0.205 ppb	370.442 ppb	0.360 ppb	92.719 %	-0.001 ppb	0.000 ppb	96.802 %	0.068 ppb
Concentration per Run 2	4.863 ppb	0.160 ppb	371.454 ppb	0.468 ppb	91.404 %	-0.001 ppb	0.005 ppb	100.093 %	0.060 ppb
Concentration per Run 3	4.750 ppb	0.086 ppb	358.656 ppb	0.446 ppb	90.893 %	0.002 ppb	0.006 ppb	89.856 %	0.074 ppb
Concentration RSD	1.7 %	39.8 %	1.9 %	13.5 %	1.0 %	574.2 %	99.0 %	5.5 %	10.8 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	87.551 ppb	102.713 %	102.511 %	0.029 ppb	0.008 ppb
Concentration per Run 1	88.013 ppb	102.637 %	102.738 %	0.017 ppb	0.008 ppb
Concentration per Run 2	87.199 ppb	103.238 %	104.369 %	0.035 ppb	0.009 ppb
Concentration per Run 3	87.442 ppb	102.265 %	100.426 %	0.036 ppb	0.006 ppb
Concentration RSD	0.5 %	0.5 %	1.9 %	37.5 %	20.3 %

Alpha ICPMSQ Data with SRD

3/5/2024 5:01:37 AM

Analysis index:	84	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	WG1890463-3d10 2008TL	Rack	1		
Analysis started at:	3/4/2024 12:04:38 PM	Vial	59		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	74.827 %	96.108 %	5.823 ppb	36,465.457 ppb	3,173.473 ppb	529.831 ppb	1,619.641 ppb	7,332.121 ppb	95.754 %
Concentration per Run 1	76.789 %	99.736 %	5.791 ppb	35,613.543 ppb	3,087.796 ppb	525.930 ppb	1,613.927 ppb	7,315.287 ppb	98.040 %
Concentration per Run 2	73.845 %	97.757 %	5.832 ppb	36,388.116 ppb	3,193.704 ppb	546.810 ppb	1,609.879 ppb	7,135.172 ppb	94.043 %
Concentration per Run 3	73.847 %	90.831 %	5.847 ppb	37,394.711 ppb	3,238.920 ppb	516.751 ppb	1,635.117 ppb	7,545.906 ppb	95.179 %
Concentration RSD	2.3 %	4.9 %	0.5 %	2.4 %	2.4 %	2.9 %	0.8 %	2.8 %	2.2 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	51.927 ppb	21.361 ppb	647.686 ppb	668.891 ppb	54.421 ppb	54.776 ppb	27.524 ppb	53.300 ppb	89.538 %
Concentration per Run 1	50.995 ppb	21.116 ppb	632.604 ppb	669.946 ppb	53.315 ppb	54.917 ppb	26.894 ppb	52.246 ppb	92.952 %
Concentration per Run 2	52.000 ppb	21.194 ppb	659.207 ppb	669.284 ppb	54.350 ppb	54.735 ppb	27.963 ppb	53.559 ppb	90.342 %
Concentration per Run 3	52.786 ppb	21.774 ppb	651.247 ppb	667.442 ppb	55.598 ppb	54.676 ppb	27.714 ppb	54.096 ppb	85.322 %
Concentration RSD	1.7 %	1.7 %	2.1 %	0.2 %	2.1 %	0.2 %	2.0 %	1.8 %	4.3 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	13.136 ppb	12.653 ppb	161.780 ppb	102.244 ppb	93.060 %	5.365 ppb	5.756 ppb	97.562 %	49.961 ppb
Concentration per Run 1	12.685 ppb	13.175 ppb	160.945 ppb	97.191 ppb	93.933 %	5.284 ppb	5.623 ppb	100.593 %	48.652 ppb
Concentration per Run 2	13.395 ppb	12.401 ppb	162.070 ppb	103.216 ppb	93.384 %	5.374 ppb	5.965 ppb	97.671 %	49.884 ppb
Concentration per Run 3	13.330 ppb	12.385 ppb	162.326 ppb	106.327 ppb	91.862 %	5.438 ppb	5.680 ppb	94.422 %	51.346 ppb
Concentration RSD	3.0 %	3.6 %	0.5 %	4.5 %	1.2 %	1.4 %	3.2 %	3.2 %	2.7 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	216.601 ppb	103.666 %	101.037 %	12.840 ppb	59.453 ppb
Concentration per Run 1	211.101 ppb	104.280 %	102.924 %	12.452 ppb	58.629 ppb
Concentration per Run 2	218.414 ppb	103.345 %	99.361 %	12.912 ppb	59.797 ppb
Concentration per Run 3	220.289 ppb	103.373 %	100.827 %	13.157 ppb	59.935 ppb
Concentration RSD	2.2 %	0.5 %	1.8 %	2.8 %	1.2 %

Alpha ICPMSQ Data with SRD

3/5/2024 5:01:37 AM

Analysis index:	85	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	WG1890463-4 2008TL	Rack	1		
Analysis started at:	3/4/2024 12:09:18 PM	Vial	60		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	73.334 %	87.005 %	0.149 ppb	350,796.763 ppb	21,513.488 ppb	2,857.972 ppb	6,264.434 ppb	59,791.280 ppb	102.887 %
Concentration per Run 1	76.289 %	76.781 %	0.134 ppb	389,495.899 ppb	23,802.141 ppb	3,174.611 ppb	6,725.650 ppb	62,826.959 ppb	103.684 %
Concentration per Run 2	73.390 %	91.227 %	0.154 ppb	324,016.730 ppb	19,702.055 ppb	2,644.572 ppb	5,802.656 ppb	57,919.937 ppb	102.445 %
Concentration per Run 3	70.322 %	93.008 %	0.159 ppb	338,877.660 ppb	21,036.268 ppb	2,754.734 ppb	6,264.997 ppb	58,626.945 ppb	102.532 %
Concentration RSD	4.1 %	10.2 %	8.9 %	9.8 %	9.7 %	9.8 %	7.4 %	4.4 %	0.7 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	10.034 ppb	7.308 ppb	5,587.114 ppb	5,197.520 ppb	7.686 ppb	8.955 ppb	5.162 ppb	24.613 ppb	83.996 %
Concentration per Run 1	10.782 ppb	7.648 ppb	5,723.566 ppb	5,344.140 ppb	7.947 ppb	8.963 ppb	5.292 ppb	25.412 ppb	85.370 %
Concentration per Run 2	9.847 ppb	7.144 ppb	5,566.168 ppb	5,237.638 ppb	7.769 ppb	9.373 ppb	5.059 ppb	24.825 ppb	78.479 %
Concentration per Run 3	9.473 ppb	7.132 ppb	5,471.608 ppb	5,010.782 ppb	7.343 ppb	8.528 ppb	5.133 ppb	23.603 ppb	88.138 %
Concentration RSD	6.7 %	4.0 %	2.3 %	3.3 %	4.0 %	4.7 %	2.3 %	3.7 %	5.9 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	1.562 ppb	0.880 ppb	609.856 ppb	2.253 ppb	82.914 %	0.050 ppb	0.337 ppb	88.525 %	0.296 ppb
Concentration per Run 1	1.492 ppb	0.958 ppb	625.363 ppb	2.304 ppb	80.841 %	0.047 ppb	0.343 ppb	86.541 %	0.283 ppb
Concentration per Run 2	1.677 ppb	0.987 ppb	597.481 ppb	2.254 ppb	83.410 %	0.055 ppb	0.350 ppb	84.268 %	0.302 ppb
Concentration per Run 3	1.517 ppb	0.695 ppb	606.725 ppb	2.199 ppb	84.490 %	0.046 ppb	0.318 ppb	94.765 %	0.303 ppb
Concentration RSD	6.4 %	18.3 %	2.3 %	2.3 %	2.3 %	10.4 %	5.0 %	6.2 %	3.8 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	62.564 ppb	98.075 %	96.113 %	0.171 ppb	1.604 ppb
Concentration per Run 1	65.432 ppb	95.225 %	93.947 %	0.165 ppb	1.675 ppb
Concentration per Run 2	62.417 ppb	97.342 %	94.899 %	0.189 ppb	1.580 ppb
Concentration per Run 3	59.845 ppb	101.657 %	99.492 %	0.159 ppb	1.558 ppb
Concentration RSD	4.5 %	3.3 %	3.1 %	9.3 %	3.9 %

Alpha ICPMSQ Data with SRD

3/5/2024 5:01:37 AM

Analysis index:	86	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	I2410258-01 2008TL	Rack	1		
Analysis started at:	3/4/2024 12:13:57 PM	Vial	58		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	70.976 %	88.654 %	0.164 ppb	351,300.619 ppb	21,647.746 ppb	3,049.053 ppb	6,403.363 ppb	61,573.756 ppb	99.678 %
Concentration per Run 1	72.505 %	89.050 %	0.164 ppb	357,836.883 ppb	22,197.810 ppb	3,203.301 ppb	6,637.369 ppb	62,767.362 ppb	99.650 %
Concentration per Run 2	70.465 %	87.071 %	0.144 ppb	343,251.977 ppb	20,864.170 ppb	2,833.970 ppb	6,236.918 ppb	60,463.187 ppb	99.651 %
Concentration per Run 3	69.959 %	89.842 %	0.185 ppb	352,812.997 ppb	21,881.257 ppb	3,109.889 ppb	6,335.802 ppb	61,490.720 ppb	99.732 %
Concentration RSD	1.9 %	1.6 %	12.3 %	2.1 %	3.2 %	6.3 %	3.3 %	1.9 %	0.0 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	10.461 ppb	7.871 ppb	5,773.737 ppb	5,576.884 ppb	7.740 ppb	9.292 ppb	5.458 ppb	25.388 ppb	84.785 %
Concentration per Run 1	10.852 ppb	8.057 ppb	5,959.205 ppb	5,705.643 ppb	7.866 ppb	9.569 ppb	5.534 ppb	25.983 ppb	83.880 %
Concentration per Run 2	9.944 ppb	7.866 ppb	5,710.608 ppb	5,580.711 ppb	7.997 ppb	9.588 ppb	5.618 ppb	25.229 ppb	80.886 %
Concentration per Run 3	10.588 ppb	7.690 ppb	5,651.398 ppb	5,444.299 ppb	7.357 ppb	8.719 ppb	5.223 ppb	24.953 ppb	89.590 %
Concentration RSD	4.5 %	2.3 %	2.8 %	2.3 %	4.4 %	5.3 %	3.8 %	2.1 %	5.2 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	1.646 ppb	0.631 ppb	616.224 ppb	0.945 ppb	85.076 %	0.048 ppb	0.303 ppb	91.354 %	0.153 ppb
Concentration per Run 1	1.616 ppb	0.601 ppb	637.029 ppb	0.812 ppb	84.122 %	0.056 ppb	0.291 ppb	91.045 %	0.131 ppb
Concentration per Run 2	1.704 ppb	0.511 ppb	607.088 ppb	1.077 ppb	83.728 %	0.044 ppb	0.321 ppb	88.608 %	0.165 ppb
Concentration per Run 3	1.616 ppb	0.781 ppb	604.555 ppb	0.947 ppb	87.377 %	0.045 ppb	0.297 ppb	94.408 %	0.164 ppb
Concentration RSD	3.1 %	21.8 %	2.9 %	14.0 %	2.4 %	13.5 %	5.2 %	3.2 %	12.6 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	61.834 ppb	98.646 %	97.937 %	0.128 ppb	1.607 ppb
Concentration per Run 1	64.840 ppb	96.423 %	97.389 %	0.117 ppb	1.626 ppb
Concentration per Run 2	60.241 ppb	97.282 %	95.213 %	0.137 ppb	1.629 ppb
Concentration per Run 3	60.421 ppb	102.232 %	101.210 %	0.130 ppb	1.566 ppb
Concentration RSD	4.2 %	3.2 %	3.1 %	7.9 %	2.2 %

Alpha ICPMSQ Data with SRD

3/5/2024 5:01:37 AM

Analysis index:	87	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	I2410258-03 2008TL	Rack	2		
Analysis started at:	3/4/2024 12:18:36 PM	Vial	4		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	77.387 %	99.142 %	3.404 ppb	154,990.105 ppb	26,856.175 ppb	8,803.687 ppb	8,725.112 ppb	80,015.209 ppb	108.982 %
Concentration per Run 1	78.712 %	97.361 %	3.393 ppb	159,753.227 ppb	27,572.676 ppb	9,054.626 ppb	9,089.433 ppb	81,342.558 ppb	109.594 %
Concentration per Run 2	77.717 %	98.351 %	3.399 ppb	150,115.960 ppb	26,001.371 ppb	8,448.625 ppb	8,448.551 ppb	78,128.270 ppb	108.918 %
Concentration per Run 3	75.733 %	101.715 %	3.420 ppb	155,101.127 ppb	26,994.477 ppb	8,907.812 ppb	8,637.352 ppb	80,574.797 ppb	108.434 %
Concentration RSD	2.0 %	2.3 %	0.4 %	3.1 %	3.0 %	3.6 %	3.8 %	2.1 %	0.5 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	5.298 ppb	3.105 ppb	770.464 ppb	7,057.265 ppb	3.348 ppb	31.498 ppb	6.211 ppb	52.312 ppb	93.174 %
Concentration per Run 1	5.286 ppb	3.102 ppb	768.783 ppb	6,978.560 ppb	3.373 ppb	32.098 ppb	6.343 ppb	52.213 ppb	95.299 %
Concentration per Run 2	5.290 ppb	3.128 ppb	767.991 ppb	7,105.892 ppb	3.372 ppb	32.016 ppb	6.284 ppb	53.292 ppb	88.686 %
Concentration per Run 3	5.318 ppb	3.084 ppb	774.618 ppb	7,087.345 ppb	3.298 ppb	30.380 ppb	6.007 ppb	51.429 ppb	95.538 %
Concentration RSD	0.3 %	0.7 %	0.5 %	1.0 %	1.3 %	3.1 %	2.9 %	1.8 %	4.2 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	6.569 ppb	6.045 ppb	799.081 ppb	1.253 ppb	89.086 %	0.413 ppb	0.206 ppb	94.660 %	0.195 ppb
Concentration per Run 1	6.556 ppb	6.012 ppb	811.318 ppb	1.239 ppb	87.769 %	0.402 ppb	0.205 ppb	94.088 %	0.200 ppb
Concentration per Run 2	6.758 ppb	6.193 ppb	780.788 ppb	1.275 ppb	88.333 %	0.438 ppb	0.223 ppb	90.863 %	0.181 ppb
Concentration per Run 3	6.392 ppb	5.929 ppb	805.135 ppb	1.246 ppb	91.155 %	0.398 ppb	0.191 ppb	99.030 %	0.205 ppb
Concentration RSD	2.8 %	2.2 %	2.0 %	1.5 %	2.0 %	5.3 %	7.9 %	4.3 %	6.5 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	292.204 ppb	105.196 %	101.986 %	0.171 ppb	31.430 ppb
Concentration per Run 1	303.348 ppb	103.637 %	102.940 %	0.154 ppb	31.567 ppb
Concentration per Run 2	282.738 ppb	105.118 %	98.897 %	0.183 ppb	31.831 ppb
Concentration per Run 3	290.526 ppb	106.833 %	104.120 %	0.175 ppb	30.892 ppb
Concentration RSD	3.6 %	1.5 %	2.7 %	8.6 %	1.5 %

Alpha ICPMSQ Data with SRD

3/5/2024 5:01:37 AM

Analysis index:	88	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	I2410258-04 2008TL	Rack	2		
Analysis started at:	3/4/2024 12:23:14 PM	Vial	5		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	76.955 %	100.858 %	0.027 ppb	49,620.288 ppb	35,513.733 ppb	123.488 ppb	9,605.275 ppb	95,286.437 ppb	93.039 %
Concentration per Run 1	78.046 %	94.987 %	0.025 ppb	52,812.898 ppb	37,338.696 ppb	132.570 ppb	9,987.191 ppb	100,424.897 ppb	92.459 %
Concentration per Run 2	77.081 %	101.121 %	0.027 ppb	48,892.968 ppb	35,062.132 ppb	122.156 ppb	9,422.257 ppb	93,267.734 ppb	92.492 %
Concentration per Run 3	75.737 %	106.464 %	0.030 ppb	47,154.998 ppb	34,140.372 ppb	115.739 ppb	9,406.375 ppb	92,166.682 ppb	94.165 %
Concentration RSD	1.5 %	5.7 %	9.4 %	5.8 %	4.6 %	6.9 %	3.4 %	4.7 %	1.0 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.717 ppb	0.523 ppb	1,119.930 ppb	302.314 ppb	0.793 ppb	71.618 ppb	0.988 ppb	9.939 ppb	91.915 %
Concentration per Run 1	0.731 ppb	0.522 ppb	1,182.097 ppb	320.970 ppb	0.904 ppb	76.582 ppb	1.104 ppb	10.626 ppb	87.828 %
Concentration per Run 2	0.608 ppb	0.517 ppb	1,089.590 ppb	301.261 ppb	0.699 ppb	71.012 ppb	0.915 ppb	9.836 ppb	92.161 %
Concentration per Run 3	0.813 ppb	0.530 ppb	1,088.102 ppb	284.711 ppb	0.776 ppb	67.259 ppb	0.944 ppb	9.357 ppb	95.756 %
Concentration RSD	14.4 %	1.3 %	4.8 %	6.0 %	13.0 %	6.6 %	10.3 %	6.4 %	4.3 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	2.403 ppb	0.332 ppb	425.174 ppb	5.506 ppb	94.188 %	0.000 ppb	0.079 ppb	97.062 %	0.136 ppb
Concentration per Run 1	2.567 ppb	0.306 ppb	442.846 ppb	5.443 ppb	90.944 %	0.000 ppb	0.086 ppb	92.341 %	0.128 ppb
Concentration per Run 2	2.388 ppb	0.247 ppb	411.558 ppb	5.462 ppb	95.841 %	0.000 ppb	0.076 ppb	98.952 %	0.119 ppb
Concentration per Run 3	2.255 ppb	0.444 ppb	421.118 ppb	5.613 ppb	95.778 %	0.000 ppb	0.076 ppb	99.893 %	0.161 ppb
Concentration RSD	6.5 %	30.4 %	3.8 %	1.7 %	3.0 %	120.6 %	7.7 %	4.2 %	16.2 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	22.429 ppb	103.976 %	102.076 %	0.037 ppb	0.145 ppb
Concentration per Run 1	22.576 ppb	99.779 %	96.979 %	0.030 ppb	0.162 ppb
Concentration per Run 2	21.766 ppb	106.002 %	103.248 %	0.041 ppb	0.135 ppb
Concentration per Run 3	22.943 ppb	106.145 %	106.000 %	0.040 ppb	0.137 ppb
Concentration RSD	2.7 %	3.5 %	4.5 %	16.8 %	10.3 %

Alpha ICPMSQ Data with SRD

3/5/2024 5:01:37 AM

Analysis index:	89	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	CCV	Rack	0		
Analysis started at:	3/4/2024 12:27:52 PM	Vial	9		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	76.842 %	100.198 %	62.752 ppb	5,759.821 ppb	5,812.729 ppb	57.072 ppb	5,821.548 ppb	5,657.181 ppb	98.471 %
Concentration per Run 1	77.683 %	96.966 %	62.660 ppb	6,038.132 ppb	5,968.086 ppb	58.082 ppb	5,835.666 ppb	5,700.289 ppb	98.619 %
Concentration per Run 2	76.618 %	105.079 %	62.323 ppb	5,476.869 ppb	5,501.216 ppb	54.898 ppb	5,861.941 ppb	5,671.388 ppb	98.574 %
Concentration per Run 3	76.225 %	98.549 %	63.272 ppb	5,764.462 ppb	5,968.885 ppb	58.237 ppb	5,767.037 ppb	5,599.867 ppb	98.220 %
Recovery Percentage 1			104.587 %	95.997 %	96.879 %	95.120 %	97.026 %	94.286 %	
Concentration RSD	1.0 %	4.3 %	0.8 %	4.9 %	4.6 %	3.3 %	0.8 %	0.9 %	0.2 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	58.266 ppb	59.372 ppb	60.223 ppb	6,150.667 ppb	62.741 ppb	63.014 ppb	63.802 ppb	60.756 ppb	91.964 %
Concentration per Run 1	60.645 ppb	61.156 ppb	60.082 ppb	6,296.377 ppb	64.847 ppb	64.923 ppb	66.511 ppb	62.315 ppb	89.236 %
Concentration per Run 2	56.895 ppb	57.433 ppb	59.539 ppb	6,009.028 ppb	61.798 ppb	62.248 ppb	63.595 ppb	60.151 ppb	93.573 %
Concentration per Run 3	57.257 ppb	59.528 ppb	61.049 ppb	6,146.596 ppb	61.578 ppb	61.870 ppb	61.300 ppb	59.801 ppb	93.084 %
Recovery Percentage 1	97.109 %	98.954 %	100.372 %	102.511 %	104.568 %	105.023 %	106.337 %	101.260 %	
Concentration RSD	3.5 %	3.1 %	1.3 %	2.3 %	2.9 %	2.6 %	4.1 %	2.2 %	2.6 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	61.551 ppb	59.905 ppb	57.926 ppb	59.342 ppb	97.714 %	62.778 ppb	62.864 ppb	97.346 %	61.320 ppb
Concentration per Run 1	63.660 ppb	60.779 ppb	57.607 ppb	59.400 ppb	94.549 %	65.616 ppb	65.840 ppb	90.992 %	63.591 ppb
Concentration per Run 2	61.586 ppb	63.103 ppb	58.304 ppb	58.818 ppb	99.446 %	61.966 ppb	62.063 ppb	100.810 %	59.513 ppb
Concentration per Run 3	59.406 ppb	55.835 ppb	57.866 ppb	59.807 ppb	99.146 %	60.752 ppb	60.687 ppb	100.235 %	60.854 ppb
Recovery Percentage 1	102.585 %	99.842 %	96.543 %	98.903 %		104.630 %	104.773 %		102.199 %
Concentration RSD	3.5 %	6.2 %	0.6 %	0.8 %	2.8 %	4.0 %	4.2 %	5.7 %	3.4 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	61.205 ppb	104.137 %	102.237 %	63.731 ppb	64.342 ppb
Concentration per Run 1	62.333 ppb	100.299 %	95.555 %	65.953 ppb	68.317 ppb
Concentration per Run 2	58.975 ppb	107.293 %	105.677 %	62.302 ppb	62.883 ppb
Concentration per Run 3	62.306 ppb	104.819 %	105.479 %	62.938 ppb	61.825 ppb
Recovery Percentage 1	102.008 %			106.218 %	107.236 %
Concentration RSD	3.2 %	3.4 %	5.7 %	3.1 %	5.4 %

Alpha ICPMSQ Data with SRD

3/5/2024 5:01:37 AM

Analysis index: 90
Analysis label: CCB
Analysis started at: 3/4/2024 12:32:34 PM
User name ALPHALAB\Metals-Instrument
Rack 0
Vial 10
Comment <Comment>

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	77.117 %	91.952 %	0.013 ppb	11.095 ppb	0.550 ppb	-2.773 ppb	-3.655 ppb	4.122 ppb	85.032 %
Concentration per Run 1	78.604 %	83.509 %	0.015 ppb	13.196 ppb	0.585 ppb	-2.984 ppb	-5.295 ppb	7.852 ppb	84.565 %
Concentration per Run 2	76.879 %	92.018 %	0.010 ppb	11.731 ppb	0.259 ppb	-2.376 ppb	-0.734 ppb	4.177 ppb	85.303 %
Concentration per Run 3	75.867 %	100.330 %	0.013 ppb	8.357 ppb	0.808 ppb	-2.960 ppb	-4.935 ppb	0.335 ppb	85.229 %
Recovery Percentage 1			2.540 %	11.095 %	0.786 %	-27.731 %	-3.655 %	4.122 %	
Concentration RSD	1.8 %	9.1 %	19.2 %	22.4 %	50.2 %	12.4 %	69.4 %	91.2 %	0.5 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.013 ppb	-0.016 ppb	0.056 ppb	14.569 ppb	0.002 ppb	0.020 ppb	-0.019 ppb	0.069 ppb	87.315 %
Concentration per Run 1	-0.010 ppb	-0.013 ppb	0.111 ppb	15.768 ppb	0.000 ppb	0.029 ppb	-0.012 ppb	0.070 ppb	81.062 %
Concentration per Run 2	-0.021 ppb	-0.018 ppb	0.029 ppb	16.145 ppb	0.000 ppb	0.006 ppb	-0.009 ppb	0.049 ppb	91.573 %
Concentration per Run 3	-0.007 ppb	-0.016 ppb	0.029 ppb	11.794 ppb	0.007 ppb	0.025 ppb	-0.036 ppb	0.088 ppb	89.312 %
Recovery Percentage 1	-0.258 %	-1.570 %	5.627 %	29.138 %	0.418 %	0.996 %	-1.875 %	1.373 %	
Concentration RSD	56.2 %	17.3 %	83.9 %	16.5 %	194.9 %	61.0 %	80.9 %	28.5 %	6.3 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.049 ppb	0.325 ppb	0.006 ppb	0.886 ppb	94.471 %	0.005 ppb	0.003 ppb	93.388 %	0.091 ppb
Concentration per Run 1	0.098 ppb	0.329 ppb	0.017 ppb	0.865 ppb	88.731 %	0.007 ppb	0.000 ppb	86.970 %	0.087 ppb
Concentration per Run 2	0.038 ppb	0.248 ppb	0.002 ppb	0.808 ppb	97.092 %	0.003 ppb	0.002 ppb	96.782 %	0.087 ppb
Concentration per Run 3	0.011 ppb	0.399 ppb	0.000 ppb	0.983 ppb	97.589 %	0.004 ppb	0.007 ppb	96.411 %	0.100 ppb
Recovery Percentage 1	9.800 %	6.509 %	0.064 %	44.275 %		1.140 %	1.499 %		2.280 %
Concentration RSD	90.8 %	23.2 %	142.8 %	10.1 %	5.3 %	41.2 %	129.2 %	6.0 %	8.0 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	0.013 ppb	98.530 %	97.409 %	0.394 ppb	0.012 ppb
Concentration per Run 1	0.002 ppb	91.996 %	89.102 %	0.355 ppb	0.018 ppb
Concentration per Run 2	0.027 ppb	101.375 %	100.846 %	0.465 ppb	0.012 ppb
Concentration per Run 3	0.011 ppb	102.220 %	102.279 %	0.361 ppb	0.006 ppb
Recovery Percentage 1	2.664 %			39.363 %	1.185 %
Concentration RSD	96.7 %	5.8 %	7.4 %	15.7 %	49.4 %

Alpha ICPMSQ Data with SRD

3/5/2024 5:01:37 AM

Analysis index:	91	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	WG1890463-1 2008TL	Rack	1		
Analysis started at:	3/4/2024 12:39:39 PM	Vial	56		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	79.840 %	95.976 %	0.011 ppb	7.646 ppb	1.719 ppb	-1.603 ppb	-0.129 ppb	4.299 ppb	89.482 %
Concentration per Run 1	81.223 %	98.747 %	0.010 ppb	8.276 ppb	1.615 ppb	-1.811 ppb	-6.347 ppb	0.191 ppb	90.592 %
Concentration per Run 2	79.305 %	96.372 %	0.012 ppb	8.073 ppb	1.805 ppb	-1.673 ppb	1.010 ppb	4.653 ppb	88.740 %
Concentration per Run 3	78.991 %	92.810 %	0.011 ppb	6.590 ppb	1.738 ppb	-1.324 ppb	4.949 ppb	8.052 ppb	89.114 %
Concentration RSD	1.5 %	3.1 %	8.5 %	12.0 %	5.6 %	15.7 %	4,438.9 %	91.7 %	1.1 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.029 ppb	0.036 ppb	0.091 ppb	5.351 ppb	-0.001 ppb	0.070 ppb	0.034 ppb	0.367 ppb	93.546 %
Concentration per Run 1	-0.029 ppb	0.020 ppb	0.090 ppb	4.128 ppb	0.001 ppb	0.053 ppb	0.050 ppb	0.397 ppb	91.870 %
Concentration per Run 2	-0.023 ppb	0.051 ppb	0.047 ppb	6.409 ppb	-0.002 ppb	0.069 ppb	0.024 ppb	0.369 ppb	99.906 %
Concentration per Run 3	-0.035 ppb	0.036 ppb	0.136 ppb	5.516 ppb	-0.002 ppb	0.089 ppb	0.029 ppb	0.336 ppb	88.863 %
Concentration RSD	22.1 %	44.1 %	48.3 %	21.5 %	205.1 %	25.8 %	39.1 %	8.4 %	6.1 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.020 ppb	0.007 ppb	0.011 ppb	0.202 ppb	98.726 %	-0.001 ppb	0.000 ppb	105.517 %	0.034 ppb
Concentration per Run 1	0.025 ppb	0.069 ppb	0.013 ppb	0.156 ppb	94.376 %	-0.002 ppb	0.000 ppb	101.784 %	0.029 ppb
Concentration per Run 2	0.013 ppb	-0.040 ppb	0.014 ppb	0.175 ppb	101.356 %	0.000 ppb	0.000 ppb	109.686 %	0.029 ppb
Concentration per Run 3	0.020 ppb	-0.008 ppb	0.004 ppb	0.276 ppb	100.445 %	0.000 ppb	0.000 ppb	105.080 %	0.045 ppb
Concentration RSD	30.4 %	776.4 %	51.5 %	31.9 %	3.8 %	144.2 %	0.0 %	3.8 %	26.5 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	0.011 ppb	104.948 %	105.512 %	0.072 ppb	-0.006 ppb
Concentration per Run 1	0.005 ppb	101.917 %	99.727 %	0.051 ppb	-0.003 ppb
Concentration per Run 2	0.018 ppb	107.936 %	111.736 %	0.079 ppb	-0.007 ppb
Concentration per Run 3	0.009 ppb	104.991 %	105.074 %	0.085 ppb	-0.007 ppb
Concentration RSD	62.9 %	2.9 %	5.7 %	25.6 %	36.4 %

Alpha ICPMSQ Data with SRD

3/5/2024 5:01:37 AM

Analysis index:	92	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	WG1890463-2d10 2008TL	Rack	1		
Analysis started at:	3/4/2024 12:44:18 PM	Vial	57		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	78.815 %	97.691 %	5.435 ppb	1,075.970 ppb	1,020.904 ppb	206.347 ppb	1,037.531 ppb	945.011 ppb	91.423 %
Concentration per Run 1	80.615 %	95.383 %	5.327 ppb	1,067.860 ppb	1,020.048 ppb	204.458 ppb	1,028.553 ppb	866.228 ppb	92.525 %
Concentration per Run 2	79.294 %	101.121 %	5.511 ppb	1,093.942 ppb	1,021.232 ppb	220.634 ppb	1,103.783 ppb	964.978 ppb	92.356 %
Concentration per Run 3	76.537 %	96.570 %	5.467 ppb	1,066.107 ppb	1,021.433 ppb	193.950 ppb	980.258 ppb	1,003.828 ppb	89.389 %
Concentration RSD	2.6 %	3.1 %	1.8 %	1.4 %	0.1 %	6.5 %	6.0 %	7.5 %	1.9 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	49.505 ppb	20.053 ppb	52.198 ppb	110.244 ppb	52.419 ppb	52.419 ppb	26.249 ppb	50.020 ppb	95.721 %
Concentration per Run 1	50.131 ppb	19.942 ppb	53.171 ppb	111.368 ppb	53.529 ppb	54.135 ppb	26.864 ppb	51.147 ppb	94.050 %
Concentration per Run 2	49.568 ppb	20.323 ppb	52.495 ppb	109.749 ppb	51.994 ppb	51.302 ppb	25.331 ppb	49.481 ppb	98.323 %
Concentration per Run 3	48.817 ppb	19.895 ppb	50.928 ppb	109.615 ppb	51.733 ppb	51.820 ppb	26.553 ppb	49.431 ppb	94.790 %
Concentration RSD	1.3 %	1.2 %	2.2 %	0.9 %	1.9 %	2.9 %	3.1 %	2.0 %	2.4 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	12.666 ppb	12.330 ppb	100.321 ppb	98.548 ppb	97.461 %	5.265 ppb	5.634 ppb	102.813 %	36.971 ppb
Concentration per Run 1	12.518 ppb	11.804 ppb	99.798 ppb	96.785 ppb	95.813 %	5.428 ppb	5.618 ppb	100.096 %	36.773 ppb
Concentration per Run 2	13.071 ppb	12.206 ppb	102.665 ppb	99.480 ppb	99.554 %	5.173 ppb	5.624 ppb	105.829 %	36.907 ppb
Concentration per Run 3	12.409 ppb	12.979 ppb	98.499 ppb	99.379 ppb	97.017 %	5.193 ppb	5.660 ppb	102.514 %	37.232 ppb
Concentration RSD	2.8 %	4.8 %	2.1 %	1.5 %	2.0 %	2.7 %	0.4 %	2.8 %	0.6 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	211.745 ppb	104.677 %	104.579 %	12.872 ppb	58.799 ppb
Concentration per Run 1	216.136 ppb	101.355 %	97.173 %	13.608 ppb	62.255 ppb
Concentration per Run 2	213.539 ppb	107.498 %	111.269 %	12.289 ppb	56.026 ppb
Concentration per Run 3	205.560 ppb	105.178 %	105.295 %	12.719 ppb	58.115 ppb
Concentration RSD	2.6 %	3.0 %	6.8 %	5.2 %	5.4 %

Alpha ICPMSQ Data with SRD

3/5/2024 5:01:37 AM

Analysis index:	93	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	WG1890463-5d10 2008TL	Rack	2		
Analysis started at:	3/4/2024 12:48:57 PM	Vial	2		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	78.746 %	99.406 %	5.691 ppb	8,085.325 ppb	3,478.068 ppb	284.315 ppb	2,059.092 ppb	14,297.406 ppb	96.894 %
Concentration per Run 1	80.315 %	94.393 %	5.619 ppb	8,360.744 ppb	3,595.691 ppb	289.463 ppb	2,080.565 ppb	14,485.911 ppb	98.625 %
Concentration per Run 2	79.048 %	102.111 %	5.733 ppb	8,223.690 ppb	3,541.961 ppb	293.942 ppb	2,136.205 ppb	14,925.648 ppb	96.689 %
Concentration per Run 3	76.874 %	101.715 %	5.720 ppb	7,671.539 ppb	3,296.551 ppb	269.539 ppb	1,960.507 ppb	13,480.660 ppb	95.368 %
Concentration RSD	2.2 %	4.4 %	1.1 %	4.5 %	4.6 %	4.6 %	4.4 %	5.2 %	1.7 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	49.961 ppb	19.996 ppb	89.682 ppb	233.834 ppb	50.978 ppb	51.172 ppb	26.123 ppb	53.882 ppb	97.404 %
Concentration per Run 1	52.324 ppb	20.472 ppb	89.081 ppb	233.392 ppb	51.976 ppb	52.146 ppb	26.652 ppb	54.609 ppb	93.312 %
Concentration per Run 2	49.267 ppb	20.153 ppb	92.676 ppb	239.458 ppb	50.652 ppb	51.049 ppb	25.949 ppb	54.339 ppb	100.439 %
Concentration per Run 3	48.292 ppb	19.362 ppb	87.289 ppb	228.652 ppb	50.306 ppb	50.321 ppb	25.767 ppb	52.697 ppb	98.461 %
Concentration RSD	4.2 %	2.9 %	3.1 %	2.3 %	1.7 %	1.8 %	1.8 %	1.9 %	3.8 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	13.157 ppb	11.565 ppb	177.932 ppb	101.603 ppb	96.883 %	5.219 ppb	5.683 ppb	102.603 %	50.730 ppb
Concentration per Run 1	13.534 ppb	11.593 ppb	176.635 ppb	100.768 ppb	94.625 %	5.237 ppb	5.699 ppb	99.753 %	49.924 ppb
Concentration per Run 2	13.639 ppb	12.882 ppb	182.603 ppb	101.709 ppb	98.652 %	5.200 ppb	5.694 ppb	108.244 %	50.824 ppb
Concentration per Run 3	12.299 ppb	10.219 ppb	174.559 ppb	102.332 ppb	97.374 %	5.221 ppb	5.655 ppb	99.811 %	51.441 ppb
Concentration RSD	5.7 %	11.5 %	2.3 %	0.8 %	2.1 %	0.4 %	0.4 %	4.8 %	1.5 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	215.608 ppb	105.902 %	105.465 %	12.424 ppb	56.952 ppb
Concentration per Run 1	214.904 ppb	103.328 %	101.710 %	12.589 ppb	58.555 ppb
Concentration per Run 2	217.330 ppb	108.706 %	110.798 %	12.125 ppb	55.465 ppb
Concentration per Run 3	214.591 ppb	105.672 %	103.886 %	12.559 ppb	56.836 ppb
Concentration RSD	0.7 %	2.5 %	4.5 %	2.1 %	2.7 %

Alpha ICPMSQ Data with SRD

3/5/2024 5:01:37 AM

Analysis index: 94
Analysis label: WG1890463-6 2008TL
Analysis started at: 3/4/2024 12:53:35 PM
User name ALPHALAB\Metals-Instrument
Rack 2
Vial 3
Comment <Comment>

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	73.900 %	92.348 %	0.048 ppb	75,186.036 ppb	24,901.314 ppb	760.730 ppb	10,845.592 ppb	138,711.139 ppb	96.781 %
Concentration per Run 1	74.815 %	86.675 %	0.050 ppb	77,641.933 ppb	25,927.408 ppb	783.219 ppb	10,993.402 ppb	141,805.275 ppb	96.475 %
Concentration per Run 2	74.395 %	95.382 %	0.049 ppb	76,384.871 ppb	25,323.830 ppb	784.569 ppb	10,934.645 ppb	142,724.551 ppb	97.132 %
Concentration per Run 3	72.488 %	94.987 %	0.045 ppb	71,531.306 ppb	23,452.705 ppb	714.402 ppb	10,608.728 ppb	131,603.592 ppb	96.736 %
Concentration RSD	1.7 %	5.3 %	5.3 %	4.3 %	5.2 %	5.3 %	1.9 %	4.4 %	0.3 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	2.139 ppb	2.488 ppb	385.982 ppb	1,252.421 ppb	1.526 ppb	6.261 ppb	4.320 ppb	45.646 ppb	90.962 %
Concentration per Run 1	2.200 ppb	2.722 ppb	401.803 ppb	1,294.789 ppb	1.567 ppb	6.735 ppb	4.531 ppb	47.155 ppb	86.247 %
Concentration per Run 2	2.293 ppb	2.352 ppb	382.348 ppb	1,227.309 ppb	1.489 ppb	6.160 ppb	4.155 ppb	46.120 ppb	95.395 %
Concentration per Run 3	1.924 ppb	2.389 ppb	373.794 ppb	1,235.164 ppb	1.521 ppb	5.887 ppb	4.275 ppb	43.662 ppb	91.244 %
Concentration RSD	9.0 %	8.2 %	3.7 %	2.9 %	2.6 %	6.9 %	4.4 %	3.9 %	5.0 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	6.807 ppb	0.599 ppb	801.831 ppb	5.051 ppb	91.459 %	0.008 ppb	0.041 ppb	99.068 %	1.367 ppb
Concentration per Run 1	7.379 ppb	0.621 ppb	801.024 ppb	5.164 ppb	90.580 %	0.010 ppb	0.040 ppb	97.327 %	1.345 ppb
Concentration per Run 2	6.768 ppb	0.666 ppb	825.401 ppb	4.958 ppb	93.572 %	0.006 ppb	0.049 ppb	102.428 %	1.390 ppb
Concentration per Run 3	6.272 ppb	0.511 ppb	779.066 ppb	5.031 ppb	90.224 %	0.009 ppb	0.033 ppb	97.450 %	1.366 ppb
Concentration RSD	8.1 %	13.3 %	2.9 %	2.1 %	2.0 %	27.5 %	19.5 %	2.9 %	1.7 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	43.492 ppb	104.105 %	104.649 %	0.104 ppb	1.997 ppb
Concentration per Run 1	44.126 ppb	103.198 %	103.448 %	0.092 ppb	1.994 ppb
Concentration per Run 2	44.076 ppb	107.208 %	108.916 %	0.115 ppb	1.949 ppb
Concentration per Run 3	42.274 ppb	101.910 %	101.583 %	0.106 ppb	2.046 ppb
Concentration RSD	2.4 %	2.7 %	3.6 %	11.0 %	2.4 %

Alpha ICPMSQ Data with SRD

3/5/2024 5:01:37 AM

Analysis index:	95	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	I2410258-02 2008TL	Rack	2		
Analysis started at:	3/4/2024 12:58:13 PM	Vial	1		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	73.644 %	99.011 %	0.052 ppb	70,771.831 ppb	23,472.970 ppb	778.935 ppb	10,253.020 ppb	134,208.340 ppb	93.352 %
Concentration per Run 1	74.759 %	90.039 %	0.054 ppb	76,135.609 ppb	25,144.724 ppb	841.149 ppb	10,399.995 ppb	138,373.285 ppb	93.780 %
Concentration per Run 2	73.301 %	99.934 %	0.052 ppb	69,239.630 ppb	23,448.134 ppb	767.796 ppb	10,227.078 ppb	133,441.508 ppb	93.292 %
Concentration per Run 3	72.872 %	107.058 %	0.049 ppb	66,940.256 ppb	21,826.053 ppb	727.859 ppb	10,131.988 ppb	130,810.228 ppb	92.985 %
Concentration RSD	1.3 %	8.6 %	4.6 %	6.8 %	7.1 %	7.4 %	1.3 %	2.9 %	0.4 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	2.124 ppb	2.786 ppb	381.168 ppb	1,350.505 ppb	1.486 ppb	6.269 ppb	4.384 ppb	45.913 ppb	88.869 %
Concentration per Run 1	2.152 ppb	2.918 ppb	400.727 ppb	1,415.608 ppb	1.567 ppb	6.252 ppb	4.539 ppb	47.588 ppb	87.848 %
Concentration per Run 2	2.177 ppb	2.731 ppb	372.609 ppb	1,365.960 ppb	1.477 ppb	6.532 ppb	4.365 ppb	45.286 ppb	89.376 %
Concentration per Run 3	2.045 ppb	2.708 ppb	370.167 ppb	1,269.946 ppb	1.412 ppb	6.022 ppb	4.248 ppb	44.865 ppb	89.382 %
Concentration RSD	3.3 %	4.1 %	4.5 %	5.5 %	5.3 %	4.1 %	3.3 %	3.2 %	1.0 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	7.080 ppb	0.509 ppb	799.741 ppb	3.800 ppb	89.338 %	0.007 ppb	0.042 ppb	97.804 %	0.662 ppb
Concentration per Run 1	7.163 ppb	0.383 ppb	808.606 ppb	3.805 ppb	88.537 %	0.008 ppb	0.032 ppb	96.643 %	0.625 ppb
Concentration per Run 2	7.048 ppb	0.529 ppb	791.501 ppb	3.738 ppb	89.362 %	0.005 ppb	0.045 ppb	97.636 %	0.678 ppb
Concentration per Run 3	7.028 ppb	0.614 ppb	799.117 ppb	3.856 ppb	90.116 %	0.008 ppb	0.048 ppb	99.132 %	0.682 ppb
Concentration RSD	1.0 %	23.0 %	1.1 %	1.6 %	0.9 %	25.4 %	20.1 %	1.3 %	4.8 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	45.169 ppb	100.234 %	101.683 %	0.062 ppb	2.064 ppb
Concentration per Run 1	46.475 ppb	97.696 %	99.803 %	0.044 ppb	2.082 ppb
Concentration per Run 2	44.558 ppb	100.438 %	101.603 %	0.070 ppb	2.081 ppb
Concentration per Run 3	44.473 ppb	102.567 %	103.643 %	0.070 ppb	2.029 ppb
Concentration RSD	2.5 %	2.4 %	1.9 %	24.3 %	1.4 %

Alpha ICPMSQ Data with SRD

3/5/2024 5:01:37 AM

Analysis index: 96
Analysis label: I2410258-05 2008TL
Analysis started at: 3/4/2024 1:02:51 PM
User name ALPHALAB\Metals-Instrument
Rack 2
Vial 6
Comment <Comment>

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	76.528 %	95.053 %	0.019 ppb	6,247.361 ppb	3,195.253 ppb	33.315 ppb	2,394.214 ppb	16,020.951 ppb	89.360 %
Concentration per Run 1	78.781 %	93.997 %	0.019 ppb	6,506.659 ppb	3,320.950 ppb	35.160 ppb	2,563.856 ppb	16,903.117 ppb	90.964 %
Concentration per Run 2	76.204 %	89.842 %	0.021 ppb	6,277.814 ppb	3,193.115 ppb	31.679 ppb	2,326.800 ppb	15,978.570 ppb	88.521 %
Concentration per Run 3	74.599 %	101.319 %	0.019 ppb	5,957.610 ppb	3,071.693 ppb	33.107 ppb	2,291.986 ppb	15,181.165 ppb	88.596 %
Concentration RSD	2.8 %	6.1 %	5.9 %	4.4 %	3.9 %	5.3 %	6.2 %	5.4 %	1.6 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.124 ppb	0.105 ppb	200.753 ppb	448.936 ppb	0.267 ppb	0.712 ppb	0.276 ppb	0.456 ppb	88.961 %
Concentration per Run 1	0.153 ppb	0.097 ppb	202.940 ppb	459.721 ppb	0.294 ppb	0.755 ppb	0.260 ppb	0.454 ppb	89.236 %
Concentration per Run 2	0.108 ppb	0.088 ppb	201.994 ppb	446.480 ppb	0.282 ppb	0.762 ppb	0.319 ppb	0.496 ppb	85.952 %
Concentration per Run 3	0.110 ppb	0.131 ppb	197.325 ppb	440.606 ppb	0.225 ppb	0.617 ppb	0.249 ppb	0.417 ppb	91.694 %
Concentration RSD	20.5 %	21.8 %	1.5 %	2.2 %	13.7 %	11.5 %	13.5 %	8.6 %	3.2 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	25.020 ppb	0.030 ppb	192.767 ppb	2.324 ppb	93.129 %	0.002 ppb	0.002 ppb	96.564 %	0.328 ppb
Concentration per Run 1	26.023 ppb	0.024 ppb	201.049 ppb	2.448 ppb	90.235 %	0.001 ppb	0.000 ppb	95.645 %	0.326 ppb
Concentration per Run 2	24.506 ppb	-0.014 ppb	187.946 ppb	2.301 ppb	92.888 %	0.003 ppb	0.001 ppb	94.820 %	0.303 ppb
Concentration per Run 3	24.531 ppb	0.080 ppb	189.305 ppb	2.221 ppb	96.264 %	0.002 ppb	0.006 ppb	99.226 %	0.356 ppb
Concentration RSD	3.5 %	158.6 %	3.7 %	4.9 %	3.2 %	52.2 %	154.4 %	2.4 %	8.1 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	1.708 ppb	101.873 %	98.861 %	0.033 ppb	0.174 ppb
Concentration per Run 1	1.885 ppb	99.119 %	98.356 %	0.020 ppb	0.180 ppb
Concentration per Run 2	1.666 ppb	100.378 %	95.828 %	0.040 ppb	0.173 ppb
Concentration per Run 3	1.572 ppb	106.123 %	102.400 %	0.041 ppb	0.170 ppb
Concentration RSD	9.4 %	3.7 %	3.4 %	34.8 %	2.9 %

Alpha ICPMSQ Data with SRD

3/5/2024 5:01:37 AM

Analysis index: 97
Analysis label: I2410258-06 2008TL
Analysis started at: 3/4/2024 1:07:29 PM
User name ALPHALAB\Metals-Instrument
Rack 2
Vial 7
Comment <Comment>

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	82.801 %	110.818 %	2.210 ppb	10,256.471 ppb	21,973.537 ppb	30,110.777 ppb	14,613.879 ppb	24,595.118 ppb	164.557 %
Concentration per Run 1	84.525 %	114.380 %	2.201 ppb	10,067.459 ppb	21,436.228 ppb	29,859.000 ppb	14,302.833 ppb	24,362.716 ppb	165.006 %
Concentration per Run 2	83.287 %	105.277 %	2.237 ppb	10,252.443 ppb	21,750.115 ppb	29,742.081 ppb	14,616.850 ppb	24,286.789 ppb	165.825 %
Concentration per Run 3	80.591 %	112.797 %	2.192 ppb	10,449.512 ppb	22,734.268 ppb	30,731.249 ppb	14,921.955 ppb	25,135.850 ppb	162.841 %
Concentration RSD	2.4 %	4.4 %	1.1 %	1.9 %	3.1 %	1.8 %	2.1 %	1.9 %	0.9 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	131.778 ppb	228.952 ppb	340.446 ppb	55,764.092 ppb	29.648 ppb	53.538 ppb	58.532 ppb	124.724 ppb	97.837 %
Concentration per Run 1	133.640 ppb	230.624 ppb	343.258 ppb	56,185.512 ppb	29.733 ppb	53.979 ppb	59.931 ppb	126.329 ppb	96.535 %
Concentration per Run 2	127.923 ppb	224.430 ppb	327.055 ppb	54,925.205 ppb	29.778 ppb	53.058 ppb	58.501 ppb	123.695 ppb	95.526 %
Concentration per Run 3	133.772 ppb	231.803 ppb	351.025 ppb	56,181.560 ppb	29.434 ppb	53.577 ppb	57.165 ppb	124.148 ppb	101.450 %
Concentration RSD	2.5 %	1.7 %	3.6 %	1.3 %	0.6 %	0.9 %	2.4 %	1.1 %	3.2 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	8.355 ppb	3.699 ppb	216.063 ppb	1.929 ppb	98.474 %	0.063 ppb	0.064 ppb	101.694 %	0.266 ppb
Concentration per Run 1	8.397 ppb	3.909 ppb	221.301 ppb	1.892 ppb	96.298 %	0.063 ppb	0.047 ppb	101.890 %	0.265 ppb
Concentration per Run 2	8.124 ppb	3.289 ppb	208.395 ppb	1.963 ppb	97.784 %	0.059 ppb	0.068 ppb	99.358 %	0.272 ppb
Concentration per Run 3	8.545 ppb	3.898 ppb	218.492 ppb	1.933 ppb	101.339 %	0.067 ppb	0.076 ppb	103.834 %	0.260 ppb
Concentration RSD	2.6 %	9.6 %	3.1 %	1.8 %	2.6 %	6.8 %	23.0 %	2.2 %	2.3 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	254.269 ppb	108.666 %	106.676 %	0.823 ppb	11.018 ppb
Concentration per Run 1	264.350 ppb	106.567 %	103.817 %	0.818 ppb	11.443 ppb
Concentration per Run 2	255.191 ppb	105.042 %	103.516 %	0.837 ppb	11.009 ppb
Concentration per Run 3	243.267 ppb	114.389 %	112.694 %	0.813 ppb	10.602 ppb
Concentration RSD	4.2 %	4.6 %	4.9 %	1.6 %	3.8 %

Alpha ICPMSQ Data with SRD

3/5/2024 5:01:37 AM

Analysis index: 98
Analysis label: I2410258-07 2008TL
Analysis started at: 3/4/2024 1:12:08 PM
User name ALPHALAB\Metals-Instrument
Rack 2
Vial 8
Comment <Comment>

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	82.084 %	107.322 %	0.023 ppb	5,042.913 ppb	2,336.265 ppb	243.872 ppb	1,303.202 ppb	4,932.638 ppb	101.608 %
Concentration per Run 1	83.750 %	96.768 %	0.029 ppb	5,487.191 ppb	2,555.050 ppb	270.139 ppb	1,427.070 ppb	5,335.678 ppb	102.324 %
Concentration per Run 2	82.140 %	110.422 %	0.021 ppb	4,802.386 ppb	2,193.169 ppb	218.627 ppb	1,242.120 ppb	4,751.574 ppb	101.237 %
Concentration per Run 3	80.360 %	114.776 %	0.021 ppb	4,839.162 ppb	2,260.575 ppb	242.851 ppb	1,240.417 ppb	4,710.662 ppb	101.263 %
Concentration RSD	2.1 %	8.8 %	19.0 %	7.6 %	8.2 %	10.6 %	8.2 %	7.1 %	0.6 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.991 ppb	1.122 ppb	6.243 ppb	400.388 ppb	0.270 ppb	1.149 ppb	0.508 ppb	1.810 ppb	102.244 %
Concentration per Run 1	1.051 ppb	1.137 ppb	6.812 ppb	445.844 ppb	0.267 ppb	1.170 ppb	0.510 ppb	1.842 ppb	100.854 %
Concentration per Run 2	0.908 ppb	1.139 ppb	5.756 ppb	365.422 ppb	0.293 ppb	1.170 ppb	0.433 ppb	1.738 ppb	100.715 %
Concentration per Run 3	1.015 ppb	1.091 ppb	6.163 ppb	389.898 ppb	0.249 ppb	1.108 ppb	0.580 ppb	1.850 ppb	105.162 %
Concentration RSD	7.5 %	2.4 %	8.5 %	10.3 %	8.3 %	3.1 %	14.5 %	3.5 %	2.5 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.270 ppb	0.442 ppb	39.323 ppb	0.465 ppb	104.179 %	-0.001 ppb	0.005 ppb	107.652 %	0.161 ppb
Concentration per Run 1	0.254 ppb	0.381 ppb	40.840 ppb	0.499 ppb	100.691 %	-0.002 ppb	0.006 ppb	104.850 %	0.150 ppb
Concentration per Run 2	0.316 ppb	0.497 ppb	37.772 ppb	0.420 ppb	104.765 %	-0.002 ppb	0.006 ppb	101.812 %	0.167 ppb
Concentration per Run 3	0.241 ppb	0.448 ppb	39.356 ppb	0.477 ppb	107.081 %	0.001 ppb	0.004 ppb	116.294 %	0.167 ppb
Concentration RSD	14.8 %	13.2 %	3.9 %	8.7 %	3.1 %	212.2 %	18.5 %	7.1 %	6.0 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	8.421 ppb	108.391 %	106.759 %	0.037 ppb	0.115 ppb
Concentration per Run 1	8.475 ppb	105.627 %	104.544 %	0.028 ppb	0.117 ppb
Concentration per Run 2	8.581 ppb	106.465 %	104.912 %	0.043 ppb	0.112 ppb
Concentration per Run 3	8.208 ppb	113.081 %	110.822 %	0.041 ppb	0.117 ppb
Concentration RSD	2.3 %	3.8 %	3.3 %	20.8 %	2.6 %

Alpha ICPMSQ Data with SRD

3/5/2024 5:01:37 AM

Analysis index:	99	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	I2410258-08 2008TL	Rack	2		
Analysis started at:	3/4/2024 1:16:46 PM	Vial	9		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	76.543 %	101.517 %	0.396 ppb	28,213.334 ppb	8,877.362 ppb	5,010.593 ppb	5,806.350 ppb	22,212.724 ppb	105.772 %
Concentration per Run 1	77.972 %	100.330 %	0.395 ppb	29,427.401 ppb	9,332.658 ppb	5,306.446 ppb	6,096.833 ppb	23,370.857 ppb	106.371 %
Concentration per Run 2	76.459 %	105.475 %	0.392 ppb	28,355.991 ppb	8,728.599 ppb	4,962.118 ppb	5,706.221 ppb	22,029.188 ppb	106.574 %
Concentration per Run 3	75.197 %	98.747 %	0.401 ppb	26,856.610 ppb	8,570.829 ppb	4,763.216 ppb	5,615.997 ppb	21,238.126 ppb	104.371 %
Concentration RSD	1.8 %	3.5 %	1.2 %	4.6 %	4.5 %	5.5 %	4.4 %	4.9 %	1.2 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	24.624 ppb	16.226 ppb	775.252 ppb	7,986.898 ppb	6.837 ppb	12.294 ppb	10.494 ppb	29.583 ppb	96.596 %
Concentration per Run 1	25.332 ppb	16.624 ppb	794.049 ppb	8,100.715 ppb	6.781 ppb	12.685 ppb	10.511 ppb	29.662 ppb	99.066 %
Concentration per Run 2	24.404 ppb	15.958 ppb	769.762 ppb	7,922.169 ppb	6.796 ppb	12.109 ppb	10.295 ppb	28.874 ppb	99.167 %
Concentration per Run 3	24.135 ppb	16.096 ppb	761.945 ppb	7,937.809 ppb	6.933 ppb	12.089 ppb	10.676 ppb	30.213 ppb	91.555 %
Concentration RSD	2.6 %	2.2 %	2.2 %	1.2 %	1.2 %	2.8 %	1.8 %	2.3 %	4.5 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	13.869 ppb	0.617 ppb	171.638 ppb	22.752 ppb	98.521 %	0.009 ppb	0.028 ppb	104.623 %	0.415 ppb
Concentration per Run 1	13.921 ppb	0.588 ppb	174.518 ppb	22.433 ppb	99.399 %	0.011 ppb	0.025 ppb	104.805 %	0.398 ppb
Concentration per Run 2	14.038 ppb	0.630 ppb	170.806 ppb	23.164 ppb	100.251 %	0.007 ppb	0.031 ppb	106.008 %	0.426 ppb
Concentration per Run 3	13.648 ppb	0.632 ppb	169.590 ppb	22.659 ppb	95.913 %	0.009 ppb	0.028 ppb	103.055 %	0.421 ppb
Concentration RSD	1.4 %	4.1 %	1.5 %	1.6 %	2.3 %	17.8 %	12.2 %	1.4 %	3.6 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	38.138 ppb	107.720 %	106.727 %	0.162 ppb	2.821 ppb
Concentration per Run 1	38.041 ppb	109.668 %	109.319 %	0.146 ppb	2.777 ppb
Concentration per Run 2	37.496 ppb	109.338 %	109.257 %	0.162 ppb	2.805 ppb
Concentration per Run 3	38.876 ppb	104.152 %	101.604 %	0.176 ppb	2.880 ppb
Concentration RSD	1.8 %	2.9 %	4.2 %	9.3 %	1.9 %

Alpha ICPMSQ Data with SRD

3/5/2024 5:01:37 AM

Analysis index:	100	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	I2410258-09 2008TL	Rack	2		
Analysis started at:	3/4/2024 1:21:25 PM	Vial	10		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	79.821 %	106.333 %	0.075 ppb	2,857.538 ppb	2,460.794 ppb	1,095.336 ppb	1,087.502 ppb	6,932.796 ppb	94.875 %
Concentration per Run 1	80.352 %	103.892 %	0.068 ppb	3,078.019 ppb	2,715.926 ppb	1,252.738 ppb	1,235.128 ppb	7,791.224 ppb	93.760 %
Concentration per Run 2	80.082 %	107.454 %	0.074 ppb	2,791.751 ppb	2,354.162 ppb	1,053.274 ppb	1,045.238 ppb	6,421.433 ppb	95.237 %
Concentration per Run 3	79.030 %	107.652 %	0.082 ppb	2,702.844 ppb	2,312.292 ppb	979.997 ppb	982.140 ppb	6,585.731 ppb	95.627 %
Concentration RSD	0.9 %	2.0 %	9.1 %	6.9 %	9.0 %	12.9 %	12.1 %	10.8 %	1.0 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	3.767 ppb	2.533 ppb	25.429 ppb	1,602.053 ppb	0.905 ppb	2.068 ppb	1.809 ppb	4.390 ppb	96.499 %
Concentration per Run 1	4.070 ppb	2.798 ppb	28.049 ppb	1,704.624 ppb	0.918 ppb	2.050 ppb	1.890 ppb	4.542 ppb	95.845 %
Concentration per Run 2	3.833 ppb	2.428 ppb	24.350 ppb	1,529.057 ppb	0.884 ppb	1.953 ppb	1.720 ppb	4.275 ppb	100.796 %
Concentration per Run 3	3.399 ppb	2.373 ppb	23.889 ppb	1,572.478 ppb	0.914 ppb	2.202 ppb	1.818 ppb	4.353 ppb	92.856 %
Concentration RSD	9.0 %	9.1 %	9.0 %	5.7 %	2.0 %	6.1 %	4.7 %	3.1 %	4.2 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.756 ppb	0.367 ppb	47.808 ppb	0.570 ppb	101.877 %	0.002 ppb	0.004 ppb	102.990 %	0.119 ppb
Concentration per Run 1	0.821 ppb	0.485 ppb	53.135 ppb	0.561 ppb	100.132 %	0.004 ppb	0.004 ppb	103.086 %	0.115 ppb
Concentration per Run 2	0.709 ppb	0.256 ppb	45.780 ppb	0.659 ppb	104.108 %	0.002 ppb	0.004 ppb	106.863 %	0.113 ppb
Concentration per Run 3	0.738 ppb	0.360 ppb	44.510 ppb	0.490 ppb	101.392 %	0.000 ppb	0.003 ppb	99.020 %	0.127 ppb
Concentration RSD	7.8 %	31.2 %	9.7 %	15.0 %	2.0 %	82.9 %	15.1 %	3.8 %	6.4 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	13.583 ppb	104.685 %	104.502 %	0.050 ppb	0.499 ppb
Concentration per Run 1	14.076 ppb	102.775 %	104.175 %	0.043 ppb	0.520 ppb
Concentration per Run 2	13.262 ppb	108.612 %	107.674 %	0.049 ppb	0.475 ppb
Concentration per Run 3	13.411 ppb	102.668 %	101.657 %	0.057 ppb	0.504 ppb
Concentration RSD	3.2 %	3.2 %	2.9 %	13.4 %	4.6 %

Alpha ICPMSQ Data with SRD

3/5/2024 5:01:37 AM

Analysis index:	101	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	CCV	Rack	0		
Analysis started at:	3/4/2024 1:26:04 PM	Vial	9		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	75.254 %	98.285 %	62.899 ppb	6,030.049 ppb	5,941.537 ppb	57.699 ppb	5,866.662 ppb	5,874.856 ppb	98.068 %
Concentration per Run 1	75.760 %	95.185 %	62.327 ppb	6,456.851 ppb	6,334.343 ppb	64.554 ppb	6,395.101 ppb	6,402.629 ppb	98.859 %
Concentration per Run 2	75.855 %	106.267 %	62.891 ppb	5,825.623 ppb	5,752.469 ppb	53.205 ppb	5,499.226 ppb	5,543.528 ppb	98.395 %
Concentration per Run 3	74.148 %	93.404 %	63.479 ppb	5,807.674 ppb	5,737.797 ppb	55.337 ppb	5,705.658 ppb	5,678.413 ppb	96.949 %
Recovery Percentage 1			104.832 %	100.501 %	99.026 %	96.165 %	97.778 %	97.914 %	
Concentration RSD	1.3 %	7.1 %	0.9 %	6.1 %	5.7 %	10.5 %	8.0 %	7.9 %	1.0 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	56.917 ppb	58.405 ppb	58.262 ppb	6,032.743 ppb	61.603 ppb	62.464 ppb	62.163 ppb	60.140 ppb	96.698 %
Concentration per Run 1	61.062 ppb	60.847 ppb	60.569 ppb	6,331.559 ppb	63.856 ppb	65.271 ppb	65.604 ppb	62.954 ppb	95.401 %
Concentration per Run 2	54.489 ppb	56.681 ppb	58.088 ppb	5,843.877 ppb	60.030 ppb	61.662 ppb	59.716 ppb	58.770 ppb	99.062 %
Concentration per Run 3	55.199 ppb	57.687 ppb	56.129 ppb	5,922.795 ppb	60.922 ppb	60.460 ppb	61.168 ppb	58.695 ppb	95.630 %
Recovery Percentage 1	94.861 %	97.342 %	97.104 %	100.546 %	102.671 %	104.107 %	103.605 %	100.233 %	
Concentration RSD	6.3 %	3.7 %	3.8 %	4.3 %	3.2 %	4.0 %	4.9 %	4.1 %	2.1 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	60.290 ppb	58.200 ppb	57.399 ppb	59.376 ppb	99.190 %	63.200 ppb	62.972 ppb	101.055 %	60.655 ppb
Concentration per Run 1	62.705 ppb	59.430 ppb	59.366 ppb	59.478 ppb	100.017 %	64.270 ppb	64.387 ppb	101.363 %	61.590 ppb
Concentration per Run 2	59.792 ppb	60.304 ppb	57.665 ppb	59.833 ppb	99.246 %	63.571 ppb	63.205 ppb	101.944 %	61.700 ppb
Concentration per Run 3	58.373 ppb	54.867 ppb	55.167 ppb	58.818 ppb	98.308 %	61.757 ppb	61.324 ppb	99.857 %	58.674 ppb
Recovery Percentage 1	100.484 %	97.001 %	95.666 %	98.961 %		105.333 %	104.954 %		101.091 %
Concentration RSD	3.7 %	5.0 %	3.7 %	0.9 %	0.9 %	2.1 %	2.5 %	1.1 %	2.8 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	60.059 ppb	105.098 %	103.155 %	64.481 ppb	64.344 ppb
Concentration per Run 1	61.546 ppb	102.152 %	102.859 %	63.850 ppb	64.493 ppb
Concentration per Run 2	61.351 ppb	107.235 %	107.199 %	62.476 ppb	62.605 ppb
Concentration per Run 3	57.280 ppb	105.907 %	99.407 %	67.116 ppb	65.935 ppb
Recovery Percentage 1	100.098 %			107.468 %	107.241 %
Concentration RSD	4.0 %	2.5 %	3.8 %	3.7 %	2.6 %

Alpha ICPMSQ Data with SRD

3/5/2024 5:01:37 AM

Analysis index: 102
Analysis label: CCB
Analysis started at: 3/4/2024 1:31:45 PM
User name ALPHALAB\Metals-Instrument
Rack 0
Vial 10
Comment <Comment>

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	74.938 %	100.528 %	0.011 ppb	-2.355 ppb	0.600 ppb	-2.485 ppb	-7.832 ppb	4.927 ppb	89.118 %
Concentration per Run 1	76.761 %	101.121 %	0.008 ppb	-1.695 ppb	0.594 ppb	-2.514 ppb	0.758 ppb	7.353 ppb	90.763 %
Concentration per Run 2	74.804 %	100.726 %	0.012 ppb	-2.006 ppb	0.200 ppb	-2.591 ppb	-8.168 ppb	2.458 ppb	88.158 %
Concentration per Run 3	73.249 %	99.736 %	0.013 ppb	-3.364 ppb	1.006 ppb	-2.351 ppb	-16.087 ppb	4.972 ppb	88.432 %
Recovery Percentage 1			2.157 %	-2.355 %	0.857 %	-24.852 %	-7.832 %	4.927 %	
Concentration RSD	2.3 %	0.7 %	21.6 %	37.7 %	67.2 %	4.9 %	107.6 %	49.7 %	1.6 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.003 ppb	-0.007 ppb	0.060 ppb	13.029 ppb	0.004 ppb	0.028 ppb	-0.020 ppb	0.083 ppb	92.161 %
Concentration per Run 1	0.013 ppb	0.006 ppb	0.015 ppb	11.328 ppb	0.003 ppb	0.034 ppb	-0.001 ppb	0.095 ppb	91.870 %
Concentration per Run 2	-0.001 ppb	-0.010 ppb	0.088 ppb	14.012 ppb	0.005 ppb	0.009 ppb	-0.037 ppb	0.067 ppb	93.481 %
Concentration per Run 3	-0.022 ppb	-0.016 ppb	0.078 ppb	13.747 ppb	0.005 ppb	0.041 ppb	-0.021 ppb	0.087 ppb	91.131 %
Recovery Percentage 1	-0.068 %	-0.701 %	6.023 %	26.058 %	0.849 %	1.423 %	-1.973 %	1.661 %	
Concentration RSD	511.3 %	163.0 %	66.2 %	11.3 %	23.7 %	59.1 %	90.0 %	17.7 %	1.3 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.050 ppb	0.169 ppb	0.012 ppb	0.731 ppb	97.884 %	0.004 ppb	0.002 ppb	98.729 %	0.095 ppb
Concentration per Run 1	0.082 ppb	0.028 ppb	0.006 ppb	0.805 ppb	94.591 %	0.005 ppb	0.006 ppb	98.991 %	0.094 ppb
Concentration per Run 2	0.041 ppb	0.364 ppb	0.014 ppb	0.701 ppb	99.984 %	0.003 ppb	0.000 ppb	102.148 %	0.090 ppb
Concentration per Run 3	0.027 ppb	0.116 ppb	0.017 ppb	0.689 ppb	99.078 %	0.004 ppb	0.001 ppb	95.047 %	0.102 ppb
Recovery Percentage 1	9.945 %	3.389 %	0.124 %	36.573 %		0.959 %	1.070 %		2.381 %
Concentration RSD	57.4 %	102.8 %	44.6 %	8.7 %	3.0 %	23.3 %	155.5 %	3.6 %	6.1 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	0.014 ppb	103.403 %	101.348 %	0.302 ppb	0.005 ppb
Concentration per Run 1	0.011 ppb	102.056 %	99.005 %	0.282 ppb	0.010 ppb
Concentration per Run 2	0.010 ppb	105.389 %	105.501 %	0.324 ppb	0.004 ppb
Concentration per Run 3	0.022 ppb	102.764 %	99.537 %	0.300 ppb	0.002 ppb
Recovery Percentage 1	2.811 %			30.194 %	0.546 %
Concentration RSD	48.3 %	1.7 %	3.6 %	6.9 %	77.7 %

Alpha ICPMSQ Data with SRD

3/5/2024 5:01:37 AM

Analysis index:	103	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	I2410258-10 2008TL	Rack	2		
Analysis started at:	3/4/2024 1:39:55 PM	Vial	11		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	78.105 %	101.517 %	1.039 ppb	29,584.959 ppb	14,892.826 ppb	12,934.868 ppb	10,778.915 ppb	46,850.534 ppb	112.362 %
Concentration per Run 1	79.307 %	105.277 %	1.063 ppb	27,889.538 ppb	13,945.346 ppb	12,278.473 ppb	10,336.107 ppb	44,577.074 ppb	113.835 %
Concentration per Run 2	77.776 %	108.641 %	1.019 ppb	29,241.864 ppb	14,818.311 ppb	13,088.894 ppb	11,023.125 ppb	48,304.230 ppb	111.050 %
Concentration per Run 3	77.231 %	90.633 %	1.035 ppb	31,623.474 ppb	15,914.822 ppb	13,437.239 ppb	10,977.514 ppb	47,670.298 ppb	112.200 %
Concentration RSD	1.4 %	9.4 %	2.1 %	6.4 %	6.6 %	4.6 %	3.6 %	4.3 %	1.2 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	57.042 ppb	38.418 ppb	550.678 ppb	18,976.853 ppb	11.112 ppb	32.630 ppb	8.867 ppb	67.480 ppb	94.784 %
Concentration per Run 1	57.232 ppb	38.308 ppb	544.836 ppb	19,207.489 ppb	11.307 ppb	34.025 ppb	9.096 ppb	68.733 ppb	90.056 %
Concentration per Run 2	55.023 ppb	37.786 ppb	548.279 ppb	18,476.547 ppb	10.642 ppb	30.312 ppb	8.584 ppb	65.366 ppb	101.031 %
Concentration per Run 3	58.872 ppb	39.160 ppb	558.920 ppb	19,246.523 ppb	11.387 ppb	33.553 ppb	8.922 ppb	68.341 ppb	93.266 %
Concentration RSD	3.4 %	1.8 %	1.3 %	2.3 %	3.7 %	6.2 %	2.9 %	2.7 %	6.0 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	19.471 ppb	0.629 ppb	275.256 ppb	12.575 ppb	94.409 %	0.025 ppb	0.019 ppb	101.657 %	0.181 ppb
Concentration per Run 1	19.735 ppb	0.413 ppb	273.761 ppb	12.237 ppb	94.256 %	0.027 ppb	0.019 ppb	98.998 %	0.165 ppb
Concentration per Run 2	19.341 ppb	0.654 ppb	280.766 ppb	12.406 ppb	96.283 %	0.025 ppb	0.023 ppb	107.987 %	0.190 ppb
Concentration per Run 3	19.338 ppb	0.818 ppb	271.242 ppb	13.082 ppb	92.690 %	0.024 ppb	0.016 ppb	97.986 %	0.187 ppb
Concentration RSD	1.2 %	32.4 %	1.8 %	3.6 %	1.9 %	5.3 %	18.5 %	5.4 %	7.8 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	85.771 ppb	107.804 %	108.412 %	0.409 ppb	3.496 ppb
Concentration per Run 1	84.584 ppb	106.570 %	105.871 %	0.392 ppb	3.552 ppb
Concentration per Run 2	85.932 ppb	110.977 %	112.325 %	0.411 ppb	3.429 ppb
Concentration per Run 3	86.797 ppb	105.866 %	107.041 %	0.425 ppb	3.506 ppb
Concentration RSD	1.3 %	2.6 %	3.2 %	4.1 %	1.8 %

Alpha ICPMSQ Data with SRD

3/5/2024 5:01:37 AM

Analysis index:	104	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	I2410258-11 2008TL	Rack	2		
Analysis started at:	3/4/2024 1:44:34 PM	Vial	12		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	72.135 %	101.055 %	0.024 ppb	4,941.645 ppb	11,761.302 ppb	7.870 ppb	6,236.156 ppb	28,270.142 ppb	89.022 %
Concentration per Run 1	72.966 %	100.726 %	0.023 ppb	4,951.810 ppb	11,844.654 ppb	6.637 ppb	6,327.912 ppb	28,576.920 ppb	88.863 %
Concentration per Run 2	72.251 %	101.517 %	0.019 ppb	4,905.643 ppb	11,501.626 ppb	8.634 ppb	6,175.407 ppb	28,002.286 ppb	89.313 %
Concentration per Run 3	71.188 %	100.923 %	0.029 ppb	4,967.484 ppb	11,937.626 ppb	8.341 ppb	6,205.148 ppb	28,231.221 ppb	88.890 %
Concentration RSD	1.2 %	0.4 %	22.7 %	0.7 %	2.0 %	13.7 %	1.3 %	1.0 %	0.3 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.001 ppb	0.076 ppb	7,171.201 ppb	98.736 ppb	0.744 ppb	0.566 ppb	0.593 ppb	0.540 ppb	92.352 %
Concentration per Run 1	0.014 ppb	0.073 ppb	7,415.132 ppb	102.640 ppb	0.756 ppb	0.574 ppb	0.681 ppb	0.585 ppb	88.781 %
Concentration per Run 2	0.019 ppb	0.086 ppb	6,926.079 ppb	97.788 ppb	0.712 ppb	0.554 ppb	0.516 ppb	0.511 ppb	94.560 %
Concentration per Run 3	-0.036 ppb	0.069 ppb	7,172.392 ppb	95.779 ppb	0.763 ppb	0.571 ppb	0.582 ppb	0.524 ppb	93.715 %
Concentration RSD	2,971.2 %	11.4 %	3.4 %	3.6 %	3.7 %	1.9 %	14.0 %	7.3 %	3.4 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.818 ppb	0.412 ppb	255.237 ppb	0.370 ppb	94.595 %	0.001 ppb	0.096 ppb	99.889 %	0.059 ppb
Concentration per Run 1	0.788 ppb	0.616 ppb	263.876 ppb	0.317 ppb	92.450 %	0.002 ppb	0.108 ppb	98.275 %	0.056 ppb
Concentration per Run 2	0.848 ppb	0.279 ppb	248.681 ppb	0.437 ppb	96.413 %	0.001 ppb	0.077 ppb	99.873 %	0.063 ppb
Concentration per Run 3	0.819 ppb	0.340 ppb	253.153 ppb	0.358 ppb	94.922 %	-0.001 ppb	0.102 ppb	101.520 %	0.059 ppb
Concentration RSD	3.7 %	43.6 %	3.1 %	16.4 %	2.1 %	180.0 %	17.4 %	1.6 %	6.0 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	34.128 ppb	104.876 %	103.764 %	0.114 ppb	0.001 ppb
Concentration per Run 1	34.956 ppb	103.144 %	102.095 %	0.094 ppb	0.001 ppb
Concentration per Run 2	33.843 ppb	104.246 %	103.674 %	0.121 ppb	0.004 ppb
Concentration per Run 3	33.587 ppb	107.237 %	105.523 %	0.127 ppb	0.000 ppb
Concentration RSD	2.1 %	2.0 %	1.7 %	15.3 %	153.4 %

Alpha ICPMSQ Data with SRD

3/5/2024 5:01:37 AM

Analysis index:	105	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	I2410258-12 2008TL	Rack	2		
Analysis started at:	3/4/2024 1:49:14 PM	Vial	13		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	71.189 %	96.108 %	0.024 ppb	5,769.555 ppb	13,888.755 ppb	78.644 ppb	10,806.890 ppb	30,636.127 ppb	84.386 %
Concentration per Run 1	72.691 %	96.768 %	0.021 ppb	5,662.260 ppb	13,588.847 ppb	74.714 ppb	10,848.455 ppb	30,613.813 ppb	86.350 %
Concentration per Run 2	70.835 %	99.538 %	0.022 ppb	5,675.079 ppb	13,708.265 ppb	77.209 ppb	10,768.464 ppb	30,554.095 ppb	83.082 %
Concentration per Run 3	70.041 %	92.018 %	0.029 ppb	5,971.326 ppb	14,369.153 ppb	84.008 ppb	10,803.752 ppb	30,740.474 ppb	83.724 %
Concentration RSD	1.9 %	4.0 %	17.8 %	3.0 %	3.0 %	6.1 %	0.4 %	0.3 %	2.1 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.436 ppb	0.248 ppb	7,942.946 ppb	6,184.502 ppb	62.371 ppb	10.158 ppb	2.314 ppb	6.121 ppb	88.080 %
Concentration per Run 1	0.365 ppb	0.224 ppb	7,858.520 ppb	6,215.141 ppb	62.065 ppb	10.607 ppb	2.251 ppb	6.311 ppb	87.277 %
Concentration per Run 2	0.483 ppb	0.281 ppb	8,092.881 ppb	6,187.615 ppb	63.137 ppb	9.952 ppb	2.433 ppb	6.093 ppb	85.629 %
Concentration per Run 3	0.461 ppb	0.237 ppb	7,877.438 ppb	6,150.751 ppb	61.913 ppb	9.915 ppb	2.258 ppb	5.959 ppb	91.333 %
Concentration RSD	14.3 %	12.1 %	1.6 %	0.5 %	1.1 %	3.8 %	4.5 %	2.9 %	3.3 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	1.494 ppb	0.131 ppb	314.189 ppb	0.169 ppb	91.292 %	0.004 ppb	0.056 ppb	94.797 %	0.082 ppb
Concentration per Run 1	1.398 ppb	0.114 ppb	315.867 ppb	0.178 ppb	91.386 %	0.003 ppb	0.057 ppb	96.052 %	0.088 ppb
Concentration per Run 2	1.631 ppb	0.266 ppb	320.121 ppb	0.153 ppb	90.370 %	0.004 ppb	0.055 ppb	94.959 %	0.071 ppb
Concentration per Run 3	1.454 ppb	0.012 ppb	306.580 ppb	0.178 ppb	92.120 %	0.005 ppb	0.058 ppb	93.380 %	0.087 ppb
Concentration RSD	8.2 %	97.8 %	2.2 %	8.6 %	1.0 %	25.5 %	2.6 %	1.4 %	11.3 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	27.278 ppb	100.904 %	101.422 %	0.214 ppb	0.031 ppb
Concentration per Run 1	26.828 ppb	101.132 %	99.410 %	0.195 ppb	0.031 ppb
Concentration per Run 2	28.206 ppb	99.659 %	99.832 %	0.239 ppb	0.032 ppb
Concentration per Run 3	26.799 ppb	101.922 %	105.023 %	0.209 ppb	0.029 ppb
Concentration RSD	2.9 %	1.1 %	3.1 %	10.4 %	6.2 %

Alpha ICPMSQ Data with SRD

3/5/2024 5:01:37 AM

Analysis index:	106	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	I2410258-13 2008TL	Rack	2		
Analysis started at:	3/4/2024 1:53:53 PM	Vial	14		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	73.729 %	98.219 %	0.149 ppb	34,670.563 ppb	4,956.267 ppb	20.317 ppb	1,377.932 ppb	10,980.539 ppb	93.287 %
Concentration per Run 1	76.196 %	97.757 %	0.146 ppb	35,292.619 ppb	5,007.591 ppb	18.850 ppb	1,400.551 ppb	11,470.888 ppb	95.148 %
Concentration per Run 2	73.199 %	101.121 %	0.156 ppb	33,426.119 ppb	4,896.897 ppb	18.855 ppb	1,343.982 ppb	10,542.592 ppb	92.455 %
Concentration per Run 3	71.792 %	95.778 %	0.146 ppb	35,292.951 ppb	4,964.312 ppb	23.246 ppb	1,389.263 ppb	10,928.137 ppb	92.259 %
Concentration RSD	3.1 %	2.8 %	3.7 %	3.1 %	1.1 %	12.5 %	2.2 %	4.2 %	1.7 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.037 ppb	0.217 ppb	31.386 ppb	153.401 ppb	0.305 ppb	1.211 ppb	0.559 ppb	1.012 ppb	91.871 %
Concentration per Run 1	0.037 ppb	0.256 ppb	32.296 ppb	150.977 ppb	0.318 ppb	1.263 ppb	0.558 ppb	1.006 ppb	87.487 %
Concentration per Run 2	0.047 ppb	0.179 ppb	30.308 ppb	149.662 ppb	0.270 ppb	1.217 ppb	0.463 ppb	1.040 ppb	92.830 %
Concentration per Run 3	0.026 ppb	0.217 ppb	31.555 ppb	159.566 ppb	0.327 ppb	1.153 ppb	0.654 ppb	0.991 ppb	95.295 %
Concentration RSD	27.9 %	17.7 %	3.2 %	3.5 %	10.0 %	4.6 %	17.1 %	2.5 %	4.3 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.042 ppb	0.189 ppb	118.079 ppb	0.166 ppb	96.085 %	0.000 ppb	0.012 ppb	99.788 %	0.043 ppb
Concentration per Run 1	0.029 ppb	0.256 ppb	121.283 ppb	0.109 ppb	94.377 %	0.000 ppb	0.012 ppb	98.392 %	0.044 ppb
Concentration per Run 2	0.055 ppb	0.020 ppb	116.448 ppb	0.156 ppb	96.535 %	-0.001 ppb	0.015 ppb	99.309 %	0.038 ppb
Concentration per Run 3	0.044 ppb	0.290 ppb	116.504 ppb	0.234 ppb	97.343 %	0.000 ppb	0.009 ppb	101.665 %	0.046 ppb
Concentration RSD	30.9 %	78.1 %	2.4 %	37.9 %	1.6 %	117.6 %	21.4 %	1.7 %	9.5 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	16.818 ppb	106.094 %	105.252 %	0.033 ppb	0.000 ppb
Concentration per Run 1	16.986 ppb	104.993 %	101.412 %	0.021 ppb	-0.001 ppb
Concentration per Run 2	16.918 ppb	106.798 %	107.897 %	0.037 ppb	-0.001 ppb
Concentration per Run 3	16.549 ppb	106.492 %	106.446 %	0.041 ppb	0.000 ppb
Concentration RSD	1.4 %	0.9 %	3.2 %	31.2 %	156.4 %

Alpha ICPMSQ Data with SRD

3/5/2024 5:01:37 AM

Analysis index: 107
Analysis label: I2410258-14 2008TL
Analysis started at: 3/4/2024 1:58:31 PM
User name ALPHALAB\Metals-Instrument
Rack 2
Vial 15
Comment <Comment>

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	73.913 %	99.802 %	0.068 ppb	13,561.731 ppb	4,943.197 ppb	532.379 ppb	2,887.578 ppb	17,887.611 ppb	85.120 %
Concentration per Run 1	75.161 %	90.633 %	0.061 ppb	15,191.320 ppb	5,485.848 ppb	597.064 ppb	3,181.149 ppb	19,483.500 ppb	84.591 %
Concentration per Run 2	74.021 %	104.683 %	0.069 ppb	12,399.765 ppb	4,658.369 ppb	510.283 ppb	2,792.224 ppb	17,132.736 ppb	85.100 %
Concentration per Run 3	72.558 %	104.090 %	0.075 ppb	13,094.110 ppb	4,685.373 ppb	489.792 ppb	2,689.363 ppb	17,046.597 ppb	85.669 %
Concentration RSD	1.8 %	8.0 %	10.6 %	10.7 %	9.5 %	10.7 %	9.0 %	7.7 %	0.6 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	2.177 ppb	1.550 ppb	1,101.563 ppb	1,113.975 ppb	1.021 ppb	1.445 ppb	1.258 ppb	2.992 ppb	91.596 %
Concentration per Run 1	2.574 ppb	1.688 ppb	1,211.179 ppb	1,244.343 ppb	1.133 ppb	1.592 ppb	1.399 ppb	3.317 ppb	85.357 %
Concentration per Run 2	2.009 ppb	1.479 ppb	1,051.181 ppb	1,047.355 ppb	0.972 ppb	1.306 ppb	1.210 ppb	2.973 ppb	94.074 %
Concentration per Run 3	1.948 ppb	1.484 ppb	1,042.328 ppb	1,050.226 ppb	0.957 ppb	1.438 ppb	1.166 ppb	2.684 ppb	95.357 %
Concentration RSD	15.9 %	7.7 %	8.6 %	10.1 %	9.6 %	9.9 %	9.8 %	10.6 %	5.9 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	1.376 ppb	0.210 ppb	151.386 ppb	2.106 ppb	93.082 %	0.002 ppb	0.004 ppb	95.526 %	0.041 ppb
Concentration per Run 1	1.419 ppb	0.173 ppb	165.192 ppb	2.238 ppb	86.331 %	0.003 ppb	0.005 ppb	90.767 %	0.042 ppb
Concentration per Run 2	1.294 ppb	0.294 ppb	145.681 ppb	2.052 ppb	96.027 %	0.002 ppb	0.002 ppb	97.498 %	0.034 ppb
Concentration per Run 3	1.414 ppb	0.162 ppb	143.286 ppb	2.028 ppb	96.888 %	0.001 ppb	0.003 ppb	98.312 %	0.047 ppb
Concentration RSD	5.1 %	34.8 %	7.9 %	5.5 %	6.3 %	42.6 %	42.0 %	4.3 %	15.8 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	8.310 ppb	100.370 %	99.249 %	0.042 ppb	0.217 ppb
Concentration per Run 1	8.522 ppb	93.725 %	93.392 %	0.032 ppb	0.236 ppb
Concentration per Run 2	7.991 ppb	102.841 %	103.002 %	0.045 ppb	0.210 ppb
Concentration per Run 3	8.418 ppb	104.543 %	101.352 %	0.049 ppb	0.204 ppb
Concentration RSD	3.4 %	5.8 %	5.2 %	20.8 %	7.9 %

Alpha ICPMSQ Data with SRD

3/5/2024 5:01:37 AM

Analysis index:	108	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	I2410258-15 2008TL	Rack	2		
Analysis started at:	3/4/2024 2:03:10 PM	Vial	16		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	76.368 %	104.156 %	0.600 ppb	3,135.783 ppb	5,836.663 ppb	10,061.356 ppb	4,583.670 ppb	7,124.919 ppb	116.462 %
Concentration per Run 1	78.021 %	103.298 %	0.603 ppb	3,154.686 ppb	5,806.497 ppb	9,751.752 ppb	4,488.184 ppb	7,338.420 ppb	116.299 %
Concentration per Run 2	75.850 %	97.757 %	0.605 ppb	3,243.656 ppb	6,102.211 ppb	10,757.847 ppb	4,740.828 ppb	7,211.560 ppb	115.732 %
Concentration per Run 3	75.232 %	111.412 %	0.593 ppb	3,009.006 ppb	5,601.282 ppb	9,674.469 ppb	4,521.996 ppb	6,824.779 ppb	117.354 %
Concentration RSD	1.9 %	6.6 %	1.1 %	3.8 %	4.3 %	6.0 %	3.0 %	3.8 %	0.7 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	34.297 ppb	26.337 ppb	260.518 ppb	17,149.810 ppb	8.589 ppb	18.255 ppb	21.211 ppb	37.406 ppb	96.527 %
Concentration per Run 1	36.248 ppb	27.715 ppb	263.415 ppb	17,767.692 ppb	9.148 ppb	19.756 ppb	23.275 ppb	40.069 ppb	86.844 %
Concentration per Run 2	33.788 ppb	25.675 ppb	261.721 ppb	17,030.035 ppb	8.440 ppb	17.738 ppb	20.117 ppb	36.444 ppb	102.080 %
Concentration per Run 3	32.854 ppb	25.619 ppb	256.419 ppb	16,651.704 ppb	8.180 ppb	17.271 ppb	20.240 ppb	35.705 ppb	100.658 %
Concentration RSD	5.1 %	4.5 %	1.4 %	3.3 %	5.8 %	7.2 %	8.4 %	6.2 %	8.7 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	10.384 ppb	1.388 ppb	61.009 ppb	0.609 ppb	99.840 %	0.020 ppb	0.027 ppb	103.385 %	0.051 ppb
Concentration per Run 1	11.251 ppb	1.312 ppb	63.446 ppb	0.587 ppb	94.331 %	0.022 ppb	0.039 ppb	96.691 %	0.041 ppb
Concentration per Run 2	10.186 ppb	1.374 ppb	59.486 ppb	0.649 ppb	103.045 %	0.021 ppb	0.026 ppb	106.297 %	0.064 ppb
Concentration per Run 3	9.716 ppb	1.478 ppb	60.094 ppb	0.590 ppb	102.146 %	0.016 ppb	0.016 ppb	107.168 %	0.048 ppb
Concentration RSD	7.6 %	6.0 %	3.5 %	5.7 %	4.8 %	14.7 %	43.0 %	5.6 %	23.6 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	73.665 ppb	108.592 %	105.028 %	0.270 ppb	4.316 ppb
Concentration per Run 1	74.465 ppb	103.012 %	97.189 %	0.282 ppb	4.648 ppb
Concentration per Run 2	72.611 ppb	111.054 %	110.429 %	0.259 ppb	4.104 ppb
Concentration per Run 3	73.917 ppb	111.708 %	107.466 %	0.270 ppb	4.198 ppb
Concentration RSD	1.3 %	4.5 %	6.6 %	4.4 %	6.7 %

Alpha ICPMSQ Data with SRD

3/5/2024 5:01:37 AM

Analysis index:	109	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	I2410258-16 2008TL	Rack	2		
Analysis started at:	3/4/2024 2:07:49 PM	Vial	17		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	70.965 %	96.570 %	0.010 ppb	46,926.412 ppb	8,362.955 ppb	68.951 ppb	3,764.664 ppb	26,150.973 ppb	89.744 %
Concentration per Run 1	72.235 %	90.831 %	0.013 ppb	47,717.455 ppb	8,544.177 ppb	66.469 ppb	3,786.053 ppb	27,064.469 ppb	90.911 %
Concentration per Run 2	70.786 %	97.757 %	0.011 ppb	47,157.722 ppb	8,361.558 ppb	71.675 ppb	3,842.678 ppb	25,563.733 ppb	89.088 %
Concentration per Run 3	69.874 %	101.121 %	0.007 ppb	45,904.058 ppb	8,183.128 ppb	68.710 ppb	3,665.262 ppb	25,824.717 ppb	89.233 %
Concentration RSD	1.7 %	5.4 %	28.6 %	2.0 %	2.2 %	3.8 %	2.4 %	3.1 %	1.1 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.261 ppb	0.322 ppb	127.596 ppb	425.503 ppb	0.303 ppb	0.988 ppb	2.933 ppb	3.539 ppb	91.011 %
Concentration per Run 1	0.291 ppb	0.374 ppb	131.704 ppb	436.127 ppb	0.369 ppb	1.074 ppb	3.025 ppb	3.659 ppb	85.029 %
Concentration per Run 2	0.224 ppb	0.289 ppb	122.198 ppb	420.963 ppb	0.271 ppb	1.020 ppb	2.772 ppb	3.379 ppb	95.781 %
Concentration per Run 3	0.269 ppb	0.303 ppb	128.886 ppb	419.419 ppb	0.270 ppb	0.871 ppb	3.000 ppb	3.578 ppb	92.224 %
Concentration RSD	13.1 %	14.2 %	3.8 %	2.2 %	18.8 %	10.6 %	4.8 %	4.1 %	6.0 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.351 ppb	0.088 ppb	178.490 ppb	0.179 ppb	93.350 %	0.000 ppb	0.009 ppb	98.825 %	0.071 ppb
Concentration per Run 1	0.371 ppb	-0.020 ppb	178.371 ppb	0.161 ppb	90.021 %	0.002 ppb	0.006 ppb	90.608 %	0.067 ppb
Concentration per Run 2	0.302 ppb	0.160 ppb	176.970 ppb	0.150 ppb	94.830 %	0.000 ppb	0.018 ppb	101.531 %	0.077 ppb
Concentration per Run 3	0.381 ppb	0.124 ppb	180.129 ppb	0.225 ppb	95.199 %	-0.001 ppb	0.003 ppb	104.337 %	0.070 ppb
Concentration RSD	12.2 %	108.2 %	0.9 %	22.7 %	3.1 %	2,333.6 %	84.7 %	7.3 %	7.4 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	20.530 ppb	102.638 %	102.030 %	0.026 ppb	0.182 ppb
Concentration per Run 1	20.959 ppb	97.110 %	95.175 %	0.016 ppb	0.202 ppb
Concentration per Run 2	20.585 ppb	104.923 %	106.953 %	0.030 ppb	0.168 ppb
Concentration per Run 3	20.046 ppb	105.882 %	103.961 %	0.033 ppb	0.175 ppb
Concentration RSD	2.2 %	4.7 %	6.0 %	35.3 %	9.8 %

Alpha ICPMSQ Data with SRD

3/5/2024 5:01:37 AM

Analysis index: 110
Analysis label: I2410258-17 2008TL
Analysis started at: 3/4/2024 2:12:27 PM
User name ALPHALAB\Metals-Instrument
Rack 2
Vial 18
Comment <Comment>

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	71.972 %	103.034 %	0.019 ppb	27,451.380 ppb	4,794.444 ppb	56.042 ppb	2,673.396 ppb	16,451.699 ppb	94.092 %
Concentration per Run 1	74.081 %	91.029 %	0.020 ppb	31,394.859 ppb	5,487.569 ppb	62.522 ppb	3,131.647 ppb	19,086.169 ppb	96.407 %
Concentration per Run 2	70.938 %	98.945 %	0.019 ppb	27,294.690 ppb	4,754.430 ppb	54.319 ppb	2,601.587 ppb	15,946.958 ppb	93.175 %
Concentration per Run 3	70.896 %	119.130 %	0.018 ppb	23,664.592 ppb	4,141.332 ppb	51.283 ppb	2,286.955 ppb	14,321.970 ppb	92.693 %
Concentration RSD	2.5 %	14.1 %	5.9 %	14.1 %	14.1 %	10.4 %	16.0 %	14.7 %	2.1 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.186 ppb	0.234 ppb	230.064 ppb	765.425 ppb	0.365 ppb	0.717 ppb	0.377 ppb	1.576 ppb	91.624 %
Concentration per Run 1	0.239 ppb	0.244 ppb	264.500 ppb	867.058 ppb	0.439 ppb	0.964 ppb	0.440 ppb	1.899 ppb	80.784 %
Concentration per Run 2	0.157 ppb	0.252 ppb	227.500 ppb	751.214 ppb	0.361 ppb	0.655 ppb	0.328 ppb	1.405 ppb	93.999 %
Concentration per Run 3	0.162 ppb	0.207 ppb	198.191 ppb	678.002 ppb	0.297 ppb	0.533 ppb	0.362 ppb	1.423 ppb	100.089 %
Concentration RSD	24.8 %	10.4 %	14.4 %	12.5 %	19.4 %	31.0 %	15.2 %	17.8 %	10.8 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.361 ppb	0.094 ppb	109.193 ppb	0.140 ppb	96.568 %	0.001 ppb	0.005 ppb	102.990 %	0.066 ppb
Concentration per Run 1	0.556 ppb	0.181 ppb	125.214 ppb	0.146 ppb	88.371 %	0.001 ppb	0.008 ppb	90.290 %	0.074 ppb
Concentration per Run 2	0.323 ppb	0.027 ppb	104.739 ppb	0.128 ppb	98.004 %	0.001 ppb	0.003 ppb	101.422 %	0.067 ppb
Concentration per Run 3	0.205 ppb	0.073 ppb	97.626 ppb	0.145 ppb	103.329 %	0.000 ppb	0.004 ppb	117.258 %	0.057 ppb
Concentration RSD	49.4 %	84.0 %	13.1 %	7.0 %	7.9 %	60.0 %	48.6 %	13.2 %	13.1 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	14.825 ppb	106.072 %	105.764 %	0.022 ppb	0.114 ppb
Concentration per Run 1	17.381 ppb	92.183 %	93.516 %	0.017 ppb	0.137 ppb
Concentration per Run 2	14.698 ppb	105.914 %	105.355 %	0.025 ppb	0.108 ppb
Concentration per Run 3	12.395 ppb	120.120 %	118.422 %	0.023 ppb	0.098 ppb
Concentration RSD	16.8 %	13.2 %	11.8 %	18.8 %	17.8 %

Alpha ICPMSQ Data with SRD

3/5/2024 5:01:37 AM

Analysis index: 111
Analysis label: I2410258-06d10 2008TL
Analysis started at: 3/4/2024 2:17:06 PM
User name ALPHALAB\Metals-Instrument
Rack 2
Vial 19
Comment <Comment>

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	73.360 %	103.760 %	0.223 ppb	1,012.818 ppb	2,187.583 ppb	3,041.645 ppb	1,444.391 ppb	2,331.536 ppb	93.869 %
Concentration per Run 1	75.281 %	107.454 %	0.239 ppb	1,046.883 ppb	2,285.346 ppb	3,237.458 ppb	1,490.439 ppb	2,431.732 ppb	94.729 %
Concentration per Run 2	73.400 %	106.662 %	0.215 ppb	984.003 ppb	2,117.560 ppb	2,873.217 ppb	1,404.123 ppb	2,259.173 ppb	93.859 %
Concentration per Run 3	71.400 %	97.164 %	0.215 ppb	1,007.569 ppb	2,159.844 ppb	3,014.261 ppb	1,438.612 ppb	2,303.702 ppb	93.019 %
Concentration RSD	2.6 %	5.5 %	6.2 %	3.1 %	4.0 %	6.0 %	3.0 %	3.8 %	0.9 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	12.678 ppb	22.491 ppb	32.557 ppb	4,936.402 ppb	2.935 ppb	5.200 ppb	5.717 ppb	13.006 ppb	92.818 %
Concentration per Run 1	13.103 ppb	22.939 ppb	34.290 ppb	5,023.036 ppb	2.978 ppb	5.275 ppb	5.956 ppb	13.659 ppb	93.867 %
Concentration per Run 2	12.218 ppb	21.795 ppb	30.975 ppb	4,711.420 ppb	2.834 ppb	4.966 ppb	5.308 ppb	12.239 ppb	94.922 %
Concentration per Run 3	12.715 ppb	22.740 ppb	32.406 ppb	5,074.751 ppb	2.993 ppb	5.360 ppb	5.886 ppb	13.120 ppb	89.666 %
Concentration RSD	3.5 %	2.7 %	5.1 %	4.0 %	3.0 %	4.0 %	6.2 %	5.5 %	3.0 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.814 ppb	0.423 ppb	20.486 ppb	0.169 ppb	98.190 %	0.006 ppb	0.004 ppb	102.684 %	0.031 ppb
Concentration per Run 1	0.946 ppb	0.455 ppb	22.286 ppb	0.175 ppb	98.089 %	0.007 ppb	0.005 ppb	108.803 %	0.027 ppb
Concentration per Run 2	0.715 ppb	0.488 ppb	19.791 ppb	0.159 ppb	99.182 %	0.005 ppb	0.006 ppb	104.497 %	0.026 ppb
Concentration per Run 3	0.780 ppb	0.326 ppb	19.381 ppb	0.171 ppb	97.299 %	0.004 ppb	0.002 ppb	94.751 %	0.038 ppb
Concentration RSD	14.6 %	20.2 %	7.7 %	5.1 %	1.0 %	31.3 %	43.7 %	7.0 %	22.3 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	24.036 ppb	104.743 %	104.990 %	0.087 ppb	1.058 ppb
Concentration per Run 1	25.119 ppb	105.338 %	109.828 %	0.076 ppb	1.032 ppb
Concentration per Run 2	23.539 ppb	106.125 %	106.113 %	0.085 ppb	1.045 ppb
Concentration per Run 3	23.449 ppb	102.765 %	99.028 %	0.100 ppb	1.099 ppb
Concentration RSD	3.9 %	1.7 %	5.2 %	13.9 %	3.4 %

Alpha ICPMSQ Data with SRD

3/5/2024 5:01:37 AM

Analysis index:	112	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	CCV	Rack	0		
Analysis started at:	3/4/2024 2:21:46 PM	Vial	9		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	71.281 %	100.462 %	62.967 ppb	5,736.919 ppb	5,798.034 ppb	56.440 ppb	5,573.871 ppb	5,458.350 ppb	98.835 %
Concentration per Run 1	72.057 %	100.726 %	62.427 ppb	5,938.041 ppb	6,024.873 ppb	60.936 ppb	6,016.084 ppb	5,582.966 ppb	98.747 %
Concentration per Run 2	71.732 %	103.892 %	63.086 ppb	5,656.618 ppb	5,704.894 ppb	55.560 ppb	5,447.558 ppb	5,522.026 ppb	100.231 %
Concentration per Run 3	70.056 %	96.768 %	63.389 ppb	5,616.100 ppb	5,664.336 ppb	52.823 ppb	5,257.973 ppb	5,270.058 ppb	97.526 %
Recovery Percentage 1			104.945 %	95.615 %	96.634 %	94.067 %	92.898 %	90.973 %	
Concentration RSD	1.5 %	3.6 %	0.8 %	3.1 %	3.4 %	7.3 %	7.1 %	3.0 %	1.4 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	56.491 ppb	58.395 ppb	58.882 ppb	6,012.829 ppb	60.878 ppb	60.697 ppb	61.151 ppb	60.369 ppb	91.352 %
Concentration per Run 1	58.128 ppb	59.124 ppb	60.499 ppb	6,035.884 ppb	60.701 ppb	59.933 ppb	60.482 ppb	59.896 ppb	95.519 %
Concentration per Run 2	55.363 ppb	57.823 ppb	58.683 ppb	5,954.801 ppb	59.646 ppb	59.944 ppb	60.224 ppb	60.660 ppb	91.719 %
Concentration per Run 3	55.983 ppb	58.236 ppb	57.463 ppb	6,047.802 ppb	62.287 ppb	62.215 ppb	62.746 ppb	60.551 ppb	86.817 %
Recovery Percentage 1	94.152 %	97.324 %	98.136 %	100.214 %	101.463 %	101.162 %	101.918 %	100.615 %	
Concentration RSD	2.6 %	1.1 %	2.6 %	0.8 %	2.2 %	2.2 %	2.3 %	0.7 %	4.8 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	60.545 ppb	57.390 ppb	57.845 ppb	59.339 ppb	97.684 %	61.484 ppb	61.996 ppb	99.722 %	60.695 ppb
Concentration per Run 1	60.563 ppb	61.327 ppb	61.633 ppb	57.468 ppb	99.741 %	60.455 ppb	61.252 ppb	106.948 %	61.056 ppb
Concentration per Run 2	60.027 ppb	56.387 ppb	56.804 ppb	58.977 ppb	97.871 %	62.134 ppb	62.453 ppb	99.876 %	60.337 ppb
Concentration per Run 3	61.043 ppb	54.456 ppb	55.100 ppb	61.571 ppb	95.439 %	61.863 ppb	62.283 ppb	92.342 %	60.692 ppb
Recovery Percentage 1	100.908 %	95.650 %	96.409 %	98.898 %		102.474 %	103.326 %		101.158 %
Concentration RSD	0.8 %	6.2 %	5.9 %	3.5 %	2.2 %	1.5 %	1.0 %	7.3 %	0.6 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	61.419 ppb	105.272 %	104.637 %	62.861 ppb	63.586 ppb
Concentration per Run 1	62.263 ppb	108.915 %	110.521 %	59.076 ppb	60.935 ppb
Concentration per Run 2	61.327 ppb	105.528 %	105.615 %	63.579 ppb	62.907 ppb
Concentration per Run 3	60.666 ppb	101.374 %	97.776 %	65.927 ppb	66.916 ppb
Recovery Percentage 1	102.365 %			104.768 %	105.976 %
Concentration RSD	1.3 %	3.6 %	6.1 %	5.5 %	4.8 %

Alpha ICPMSQ Data with SRD

3/5/2024 5:01:37 AM

Analysis index: 113
Analysis label: CCB
Analysis started at: 3/4/2024 2:26:28 PM
User name ALPHALAB\Metals-Instrument
Rack 0
Vial 10
Comment <Comment>

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	70.138 %	92.942 %	0.011 ppb	-1.673 ppb	0.131 ppb	-2.815 ppb	-3.698 ppb	2.321 ppb	77.266 %
Concentration per Run 1	71.514 %	88.654 %	0.012 ppb	0.272 ppb	0.304 ppb	-2.662 ppb	2.646 ppb	4.800 ppb	78.413 %
Concentration per Run 2	69.543 %	101.913 %	0.017 ppb	-2.908 ppb	0.001 ppb	-3.042 ppb	-6.434 ppb	2.636 ppb	76.922 %
Concentration per Run 3	69.357 %	88.258 %	0.004 ppb	-2.383 ppb	0.087 ppb	-2.741 ppb	-7.307 ppb	-0.473 ppb	76.464 %
Recovery Percentage 1			2.204 %	-1.673 %	0.187 %	-28.149 %	-3.698 %	2.321 %	
Concentration RSD	1.7 %	8.4 %	61.6 %	101.9 %	119.3 %	7.1 %	149.0 %	114.2 %	1.3 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.014 ppb	-0.006 ppb	0.033 ppb	13.361 ppb	0.002 ppb	0.001 ppb	-0.017 ppb	0.080 ppb	85.637 %
Concentration per Run 1	-0.012 ppb	0.004 ppb	0.022 ppb	17.306 ppb	0.000 ppb	-0.001 ppb	-0.022 ppb	0.087 ppb	83.367 %
Concentration per Run 2	-0.036 ppb	-0.017 ppb	0.039 ppb	12.078 ppb	0.003 ppb	0.016 ppb	-0.021 ppb	0.070 ppb	91.725 %
Concentration per Run 3	0.004 ppb	-0.006 ppb	0.037 ppb	10.701 ppb	0.002 ppb	-0.013 ppb	-0.008 ppb	0.084 ppb	81.820 %
Recovery Percentage 1	-0.286 %	-0.633 %	3.259 %	26.723 %	0.310 %	0.035 %	-1.681 %	1.604 %	
Concentration RSD	141.1 %	160.8 %	29.4 %	26.1 %	107.4 %	2,126.2 %	46.5 %	11.5 %	6.2 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.064 ppb	0.264 ppb	0.000 ppb	0.929 ppb	93.222 %	0.004 ppb	0.005 ppb	93.140 %	0.074 ppb
Concentration per Run 1	0.058 ppb	0.329 ppb	0.002 ppb	1.015 ppb	90.670 %	0.005 ppb	0.013 ppb	92.018 %	0.073 ppb
Concentration per Run 2	0.066 ppb	0.433 ppb	-0.002 ppb	0.964 ppb	94.831 %	0.006 ppb	0.003 ppb	96.412 %	0.067 ppb
Concentration per Run 3	0.067 ppb	0.031 ppb	-0.001 ppb	0.809 ppb	94.164 %	0.002 ppb	0.000 ppb	90.990 %	0.081 ppb
Recovery Percentage 1	12.784 %	5.289 %	-0.004 %	46.464 %		1.046 %	2.682 %		1.844 %
Concentration RSD	7.7 %	78.9 %	484.4 %	11.5 %	2.4 %	52.9 %	128.6 %	3.1 %	9.3 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	-0.003 ppb	96.064 %	95.063 %	0.441 ppb	0.010 ppb
Concentration per Run 1	-0.005 ppb	94.897 %	94.356 %	0.367 ppb	0.013 ppb
Concentration per Run 2	0.000 ppb	96.913 %	96.579 %	0.525 ppb	0.011 ppb
Concentration per Run 3	-0.005 ppb	96.382 %	94.256 %	0.432 ppb	0.005 ppb
Recovery Percentage 1	-0.595 %			44.125 %	0.951 %
Concentration RSD	100.9 %	1.1 %	1.4 %	18.0 %	43.9 %

Alpha ICPMSQ Data with SRD

3/5/2024 5:01:37 AM

Analysis index:	114	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	WG1889936-1 2008TL	Rack	2		
Analysis started at:	3/4/2024 2:35:54 PM	Vial	20		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	75.153 %	97.757 %	0.006 ppb	136.940 ppb	1.676 ppb	-0.838 ppb	-5.938 ppb	7.267 ppb	83.216 %
Concentration per Run 1	77.126 %	92.216 %	0.006 ppb	151.857 ppb	2.195 ppb	-1.460 ppb	-0.621 ppb	6.908 ppb	83.351 %
Concentration per Run 2	74.998 %	95.976 %	0.004 ppb	135.572 ppb	1.882 ppb	-0.589 ppb	-8.534 ppb	5.245 ppb	83.701 %
Concentration per Run 3	73.335 %	105.079 %	0.009 ppb	123.391 ppb	0.951 ppb	-0.465 ppb	-8.660 ppb	9.647 ppb	82.597 %
Concentration RSD	2.5 %	6.8 %	37.2 %	10.4 %	38.6 %	64.7 %	77.6 %	30.6 %	0.7 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.011 ppb	0.047 ppb	0.008 ppb	3.500 ppb	0.003 ppb	0.028 ppb	0.039 ppb	0.417 ppb	88.436 %
Concentration per Run 1	0.017 ppb	0.029 ppb	-0.034 ppb	5.249 ppb	0.003 ppb	0.042 ppb	0.044 ppb	0.475 ppb	86.293 %
Concentration per Run 2	-0.028 ppb	0.056 ppb	0.042 ppb	1.301 ppb	0.007 ppb	0.025 ppb	0.032 ppb	0.376 ppb	89.616 %
Concentration per Run 3	-0.022 ppb	0.055 ppb	0.015 ppb	3.949 ppb	0.000 ppb	0.017 ppb	0.039 ppb	0.400 ppb	89.400 %
Concentration RSD	223.2 %	33.6 %	508.4 %	57.5 %	109.7 %	43.9 %	15.4 %	12.4 %	2.1 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.077 ppb	0.019 ppb	0.014 ppb	0.137 ppb	97.225 %	0.000 ppb	0.000 ppb	95.954 %	0.019 ppb
Concentration per Run 1	0.135 ppb	0.035 ppb	0.017 ppb	0.122 ppb	93.102 %	0.001 ppb	0.000 ppb	95.317 %	0.025 ppb
Concentration per Run 2	0.051 ppb	0.037 ppb	0.015 ppb	0.126 ppb	98.320 %	-0.001 ppb	0.000 ppb	91.384 %	0.013 ppb
Concentration per Run 3	0.044 ppb	-0.016 ppb	0.010 ppb	0.164 ppb	100.254 %	0.000 ppb	0.001 ppb	101.162 %	0.020 ppb
Concentration RSD	65.9 %	161.9 %	25.1 %	16.8 %	3.8 %	445.8 %	2,971.1 %	5.1 %	30.1 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	0.002 ppb	100.516 %	98.190 %	0.066 ppb	0.462 ppb
Concentration per Run 1	0.001 ppb	96.662 %	92.549 %	0.050 ppb	0.491 ppb
Concentration per Run 2	0.001 ppb	98.655 %	96.976 %	0.080 ppb	0.463 ppb
Concentration per Run 3	0.005 ppb	106.231 %	105.045 %	0.067 ppb	0.431 ppb
Concentration RSD	112.5 %	5.0 %	6.5 %	22.8 %	6.5 %

Alpha ICPMSQ Data with SRD

3/5/2024 5:01:37 AM

Analysis index: 115
Analysis label: WG1889936-2d20 2008TL
Analysis started at: 3/4/2024 2:45:01 PM
User name ALPHALAB\Metals-Instrument
Rack 2
Vial 21
Comment <Comment>

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	72.015 %	98.813 %	2.706 ppb	498.507 ppb	495.799 ppb	95.235 ppb	491.545 ppb	453.690 ppb	86.630 %
Concentration per Run 1	73.576 %	101.319 %	2.693 ppb	508.331 ppb	518.794 ppb	99.151 ppb	480.919 ppb	485.847 ppb	87.766 %
Concentration per Run 2	72.754 %	90.237 %	2.657 ppb	515.010 ppb	519.046 ppb	92.160 ppb	518.615 ppb	426.792 ppb	86.718 %
Concentration per Run 3	69.716 %	104.881 %	2.769 ppb	472.181 ppb	449.558 ppb	94.393 ppb	475.101 ppb	448.429 ppb	85.406 %
Concentration RSD	2.8 %	7.7 %	2.1 %	4.6 %	8.1 %	3.7 %	4.8 %	6.6 %	1.4 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	24.554 ppb	10.063 ppb	25.070 ppb	56.522 ppb	26.331 ppb	26.972 ppb	13.391 ppb	25.115 ppb	88.208 %
Concentration per Run 1	24.729 ppb	10.209 ppb	25.356 ppb	57.991 ppb	26.505 ppb	27.472 ppb	13.361 ppb	25.457 ppb	89.408 %
Concentration per Run 2	24.798 ppb	10.063 ppb	24.932 ppb	54.824 ppb	26.839 ppb	27.850 ppb	13.692 ppb	25.033 ppb	85.731 %
Concentration per Run 3	24.136 ppb	9.917 ppb	24.921 ppb	56.751 ppb	25.650 ppb	25.593 ppb	13.119 ppb	24.854 ppb	89.483 %
Concentration RSD	1.5 %	1.5 %	1.0 %	2.8 %	2.3 %	4.5 %	2.1 %	1.2 %	2.4 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	6.293 ppb	6.364 ppb	47.380 ppb	51.255 ppb	96.956 %	2.634 ppb	2.798 ppb	97.945 %	21.807 ppb
Concentration per Run 1	6.184 ppb	6.456 ppb	48.290 ppb	52.100 ppb	95.662 %	2.682 ppb	2.850 ppb	97.200 %	22.736 ppb
Concentration per Run 2	6.295 ppb	6.550 ppb	45.594 ppb	50.212 ppb	96.830 %	2.625 ppb	2.804 ppb	95.738 %	21.448 ppb
Concentration per Run 3	6.399 ppb	6.085 ppb	48.256 ppb	51.452 ppb	98.375 %	2.596 ppb	2.741 ppb	100.899 %	21.236 ppb
Concentration RSD	1.7 %	3.9 %	3.3 %	1.9 %	1.4 %	1.7 %	2.0 %	2.7 %	3.7 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	102.045 ppb	102.728 %	101.241 %	6.477 ppb	29.353 ppb
Concentration per Run 1	104.533 ppb	101.563 %	99.074 %	6.693 ppb	30.373 ppb
Concentration per Run 2	100.079 ppb	99.860 %	99.144 %	6.425 ppb	29.330 ppb
Concentration per Run 3	101.523 ppb	106.761 %	105.506 %	6.314 ppb	28.357 ppb
Concentration RSD	2.2 %	3.5 %	3.6 %	3.0 %	3.4 %

Alpha ICPMSQ Data with SRD

3/5/2024 5:01:37 AM

Analysis index: 116
Analysis label: WG1889936-3d20 2008TL
Analysis started at: 3/4/2024 2:49:38 PM
User name ALPHALAB\Metals-Instrument
Rack 2
Vial 23
Comment <Comment>

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	71.472 %	97.427 %	2.695 ppb	17,597.860 ppb	1,927.791 ppb	249.096 ppb	1,366.814 ppb	4,058.033 ppb	90.757 %
Concentration per Run 1	72.195 %	102.507 %	2.645 ppb	17,212.070 ppb	1,866.507 ppb	251.745 ppb	1,347.556 ppb	4,084.530 ppb	89.914 %
Concentration per Run 2	72.008 %	91.821 %	2.744 ppb	17,982.949 ppb	1,993.989 ppb	246.226 ppb	1,322.856 ppb	4,040.459 ppb	92.582 %
Concentration per Run 3	70.213 %	97.955 %	2.695 ppb	17,598.562 ppb	1,922.877 ppb	249.318 ppb	1,430.030 ppb	4,049.111 ppb	89.776 %
Concentration RSD	1.5 %	5.5 %	1.8 %	2.2 %	3.3 %	1.1 %	4.1 %	0.6 %	1.7 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	24.237 ppb	9.946 ppb	38.032 ppb	279.442 ppb	25.715 ppb	25.980 ppb	13.669 ppb	26.153 ppb	89.321 %
Concentration per Run 1	24.587 ppb	10.155 ppb	38.807 ppb	276.555 ppb	25.753 ppb	26.337 ppb	13.744 ppb	25.685 ppb	90.064 %
Concentration per Run 2	24.203 ppb	10.156 ppb	37.938 ppb	283.886 ppb	26.588 ppb	26.249 ppb	14.082 ppb	26.182 ppb	86.136 %
Concentration per Run 3	23.922 ppb	9.526 ppb	37.350 ppb	277.883 ppb	24.805 ppb	25.354 ppb	13.181 ppb	26.591 ppb	91.763 %
Concentration RSD	1.4 %	3.7 %	1.9 %	1.4 %	3.5 %	2.1 %	3.3 %	1.7 %	3.2 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	6.223 ppb	6.034 ppb	73.375 ppb	49.754 ppb	95.908 %	2.512 ppb	2.685 ppb	99.619 %	25.082 ppb
Concentration per Run 1	6.146 ppb	6.374 ppb	74.396 ppb	48.215 ppb	96.419 %	2.490 ppb	2.689 ppb	99.143 %	25.757 ppb
Concentration per Run 2	6.365 ppb	5.856 ppb	71.089 ppb	50.047 ppb	94.670 %	2.549 ppb	2.731 ppb	97.345 %	24.753 ppb
Concentration per Run 3	6.157 ppb	5.870 ppb	74.641 ppb	51.001 ppb	96.634 %	2.497 ppb	2.635 ppb	102.368 %	24.736 ppb
Concentration RSD	2.0 %	4.9 %	2.7 %	2.8 %	1.1 %	1.3 %	1.8 %	2.6 %	2.3 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	100.970 ppb	103.579 %	103.919 %	5.857 ppb	28.018 ppb
Concentration per Run 1	103.990 ppb	102.842 %	102.994 %	5.853 ppb	28.549 ppb
Concentration per Run 2	98.804 ppb	102.760 %	102.594 %	5.889 ppb	28.254 ppb
Concentration per Run 3	100.117 ppb	105.137 %	106.170 %	5.829 ppb	27.252 ppb
Concentration RSD	2.7 %	1.3 %	1.9 %	0.5 %	2.4 %

Alpha ICPMSQ Data with SRD

3/5/2024 5:01:37 AM

Analysis index:	117	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	WG1889936-4 2008TL	Rack	2		
Analysis started at:	3/4/2024 2:54:17 PM	Vial	24		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	70.281 %	88.456 %	0.206 ppb	357,615.800 ppb	30,275.778 ppb	3,913.238 ppb	18,600.242 ppb	76,291.245 ppb	85.592 %
Concentration per Run 1	70.916 %	86.477 %	0.229 ppb	346,097.808 ppb	29,422.646 ppb	3,724.580 ppb	18,028.619 ppb	75,003.997 ppb	85.251 %
Concentration per Run 2	70.365 %	94.987 %	0.195 ppb	338,297.763 ppb	28,569.194 ppb	3,721.215 ppb	17,763.987 ppb	72,815.081 ppb	85.282 %
Concentration per Run 3	69.562 %	83.905 %	0.194 ppb	388,451.830 ppb	32,835.494 ppb	4,293.918 ppb	20,008.120 ppb	81,054.659 ppb	86.242 %
Concentration RSD	1.0 %	6.6 %	9.5 %	7.5 %	7.5 %	8.4 %	6.6 %	5.6 %	0.7 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	9.552 ppb	8.396 ppb	269.585 ppb	5,613.677 ppb	3.112 ppb	8.674 ppb	6.703 ppb	27.079 ppb	84.457 %
Concentration per Run 1	9.687 ppb	8.499 ppb	260.549 ppb	5,503.454 ppb	2.986 ppb	8.447 ppb	6.610 ppb	26.980 ppb	81.835 %
Concentration per Run 2	8.552 ppb	7.812 ppb	255.844 ppb	5,376.761 ppb	3.026 ppb	8.712 ppb	6.435 ppb	25.337 ppb	88.338 %
Concentration per Run 3	10.418 ppb	8.875 ppb	292.362 ppb	5,960.817 ppb	3.323 ppb	8.863 ppb	7.063 ppb	28.920 ppb	83.199 %
Concentration RSD	9.8 %	6.4 %	7.4 %	5.5 %	5.9 %	2.4 %	4.8 %	6.6 %	4.1 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	2.354 ppb	0.659 ppb	589.180 ppb	14.651 ppb	81.640 %	0.009 ppb	0.057 ppb	84.711 %	0.887 ppb
Concentration per Run 1	2.194 ppb	0.662 ppb	567.113 ppb	13.747 ppb	79.412 %	0.008 ppb	0.064 ppb	82.813 %	0.882 ppb
Concentration per Run 2	2.397 ppb	0.814 ppb	564.321 ppb	14.265 ppb	86.357 %	0.012 ppb	0.049 ppb	89.920 %	0.831 ppb
Concentration per Run 3	2.472 ppb	0.500 ppb	636.107 ppb	15.943 ppb	79.152 %	0.008 ppb	0.057 ppb	81.399 %	0.949 ppb
Concentration RSD	6.1 %	23.9 %	6.9 %	7.8 %	5.0 %	23.2 %	13.0 %	5.4 %	6.7 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	53.689 ppb	93.344 %	93.431 %	0.191 ppb	8.030 ppb
Concentration per Run 1	52.935 ppb	90.633 %	87.872 %	0.186 ppb	8.410 ppb
Concentration per Run 2	51.246 ppb	99.362 %	100.332 %	0.187 ppb	7.467 ppb
Concentration per Run 3	56.885 ppb	90.036 %	92.089 %	0.200 ppb	8.213 ppb
Concentration RSD	5.4 %	5.6 %	6.8 %	4.0 %	6.2 %

Alpha ICPMSQ Data with SRD

3/5/2024 5:01:37 AM

Analysis index: 118
Analysis label: I2410272-02 2008TL
Analysis started at: 3/4/2024 2:58:57 PM
User name ALPHALAB\Metals-Instrument
Rack 2
Vial 22
Comment <Comment>

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	72.624 %	98.417 %	0.168 ppb	342,673.759 ppb	28,582.017 ppb	2,576.856 ppb	17,415.080 ppb	73,217.765 ppb	100.087 %
Concentration per Run 1	74.589 %	100.726 %	0.159 ppb	329,381.437 ppb	27,788.758 ppb	2,413.889 ppb	16,324.270 ppb	71,843.469 ppb	101.970 %
Concentration per Run 2	72.765 %	100.528 %	0.172 ppb	341,572.954 ppb	28,512.153 ppb	2,594.638 ppb	17,926.870 ppb	74,633.469 ppb	100.161 %
Concentration per Run 3	70.519 %	93.997 %	0.171 ppb	357,066.886 ppb	29,445.138 ppb	2,722.041 ppb	17,994.099 ppb	73,176.356 ppb	98.130 %
Concentration RSD	2.8 %	3.9 %	4.2 %	4.0 %	2.9 %	6.0 %	5.4 %	1.9 %	1.9 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	6.959 ppb	5.860 ppb	242.356 ppb	3,995.056 ppb	2.470 ppb	6.696 ppb	5.850 ppb	22.637 ppb	88.502 %
Concentration per Run 1	7.120 ppb	6.014 ppb	240.650 ppb	4,047.303 ppb	2.501 ppb	6.877 ppb	6.076 ppb	23.313 ppb	82.725 %
Concentration per Run 2	6.859 ppb	5.756 ppb	242.542 ppb	3,953.203 ppb	2.451 ppb	6.811 ppb	5.904 ppb	22.960 ppb	88.762 %
Concentration per Run 3	6.899 ppb	5.809 ppb	243.878 ppb	3,984.663 ppb	2.458 ppb	6.401 ppb	5.569 ppb	21.639 ppb	94.018 %
Concentration RSD	2.0 %	2.3 %	0.7 %	1.2 %	1.1 %	3.9 %	4.4 %	3.9 %	6.4 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	1.835 ppb	0.635 ppb	580.262 ppb	12.750 ppb	87.390 %	0.008 ppb	0.063 ppb	92.627 %	0.577 ppb
Concentration per Run 1	1.747 ppb	0.690 ppb	577.404 ppb	12.660 ppb	85.349 %	0.008 ppb	0.069 ppb	89.019 %	0.553 ppb
Concentration per Run 2	1.974 ppb	0.848 ppb	585.604 ppb	12.888 ppb	89.277 %	0.007 ppb	0.070 ppb	92.990 %	0.569 ppb
Concentration per Run 3	1.786 ppb	0.369 ppb	577.777 ppb	12.703 ppb	87.543 %	0.009 ppb	0.050 ppb	95.873 %	0.607 ppb
Concentration RSD	6.6 %	38.4 %	0.8 %	1.0 %	2.3 %	9.7 %	18.5 %	3.7 %	4.8 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	45.505 ppb	100.028 %	99.422 %	0.116 ppb	7.388 ppb
Concentration per Run 1	45.562 ppb	98.707 %	95.387 %	0.099 ppb	7.622 ppb
Concentration per Run 2	46.350 ppb	100.292 %	100.982 %	0.124 ppb	7.224 ppb
Concentration per Run 3	44.602 ppb	101.085 %	101.898 %	0.124 ppb	7.317 ppb
Concentration RSD	1.9 %	1.2 %	3.5 %	12.2 %	2.8 %

Alpha ICPMSQ Data with SRD

3/5/2024 5:01:37 AM

Analysis index:	119	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	CCV	Rack	0		
Analysis started at:	3/4/2024 3:06:34 PM	Vial	9		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	76.032 %	101.649 %	62.994 ppb	6,171.561 ppb	6,152.669 ppb	59.738 ppb	6,091.631 ppb	5,955.139 ppb	96.692 %
Concentration per Run 1	77.217 %	97.955 %	62.575 ppb	6,724.659 ppb	6,821.818 ppb	65.936 ppb	6,832.275 ppb	6,622.045 ppb	97.599 %
Concentration per Run 2	76.913 %	96.768 %	62.832 ppb	6,257.539 ppb	6,114.036 ppb	59.468 ppb	5,927.282 ppb	5,825.353 ppb	97.420 %
Concentration per Run 3	73.967 %	110.224 %	63.577 ppb	5,532.486 ppb	5,522.153 ppb	53.811 ppb	5,515.335 ppb	5,418.019 ppb	95.058 %
Recovery Percentage 1			104.991 %	102.859 %	102.544 %	99.564 %	101.527 %	99.252 %	
Concentration RSD	2.4 %	7.3 %	0.8 %	9.7 %	10.6 %	10.2 %	11.1 %	10.3 %	1.5 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	60.402 ppb	60.642 ppb	61.320 ppb	6,186.793 ppb	62.850 ppb	63.580 ppb	63.199 ppb	62.425 ppb	95.191 %
Concentration per Run 1	63.821 ppb	64.376 ppb	66.780 ppb	6,558.687 ppb	65.793 ppb	66.576 ppb	66.089 ppb	65.231 ppb	96.522 %
Concentration per Run 2	60.693 ppb	61.092 ppb	59.594 ppb	6,231.061 ppb	63.450 ppb	63.316 ppb	63.520 ppb	63.090 ppb	93.209 %
Concentration per Run 3	56.692 ppb	56.459 ppb	57.588 ppb	5,770.630 ppb	59.306 ppb	60.849 ppb	59.987 ppb	58.952 ppb	95.843 %
Recovery Percentage 1	100.670 %	101.070 %	102.201 %	103.113 %	104.749 %	105.967 %	105.331 %	104.041 %	
Concentration RSD	5.9 %	6.6 %	7.9 %	6.4 %	5.2 %	4.5 %	4.8 %	5.1 %	1.8 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	61.784 ppb	63.262 ppb	60.652 ppb	60.457 ppb	99.537 %	63.572 ppb	63.660 ppb	102.781 %	61.730 ppb
Concentration per Run 1	64.729 ppb	67.291 ppb	66.082 ppb	61.678 ppb	96.189 %	66.589 ppb	66.276 ppb	104.066 %	64.484 ppb
Concentration per Run 2	61.217 ppb	61.730 ppb	58.418 ppb	59.787 ppb	101.118 %	62.270 ppb	62.523 ppb	102.532 %	60.462 ppb
Concentration per Run 3	59.405 ppb	60.765 ppb	57.455 ppb	59.907 ppb	101.305 %	61.856 ppb	62.182 ppb	101.745 %	60.245 ppb
Recovery Percentage 1	102.973 %	105.437 %	101.087 %	100.762 %		105.953 %	106.100 %		102.883 %
Concentration RSD	4.4 %	5.6 %	7.8 %	1.8 %	2.9 %	4.1 %	3.6 %	1.1 %	3.9 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	62.653 ppb	105.373 %	105.361 %	63.907 ppb	64.374 ppb
Concentration per Run 1	64.881 ppb	102.603 %	103.651 %	66.042 ppb	67.299 ppb
Concentration per Run 2	60.646 ppb	106.209 %	104.734 %	63.617 ppb	63.455 ppb
Concentration per Run 3	62.431 ppb	107.307 %	107.698 %	62.061 ppb	62.368 ppb
Recovery Percentage 1	104.421 %			106.511 %	107.290 %
Concentration RSD	3.4 %	2.3 %	2.0 %	3.1 %	4.0 %

Alpha ICPMSQ Data with SRD

3/5/2024 5:01:37 AM

Analysis index:	120	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	CCB	Rack	0		
Analysis started at:	3/4/2024 3:11:17 PM	Vial	10		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	75.338 %	103.034 %	0.018 ppb	25.508 ppb	2.990 ppb	-2.330 ppb	0.064 ppb	7.118 ppb	87.394 %
Concentration per Run 1	76.503 %	95.383 %	0.018 ppb	30.127 ppb	3.580 ppb	-2.304 ppb	2.179 ppb	11.225 ppb	88.158 %
Concentration per Run 2	75.331 %	102.902 %	0.020 ppb	24.388 ppb	3.459 ppb	-2.309 ppb	-4.143 ppb	3.110 ppb	86.570 %
Concentration per Run 3	74.179 %	110.818 %	0.016 ppb	22.010 ppb	1.931 ppb	-2.377 ppb	2.157 ppb	7.019 ppb	87.456 %
Recovery Percentage 1			3.605 %	25.508 %	4.271 %	-23.302 %	0.064 %	7.118 %	
Concentration RSD	1.5 %	7.5 %	12.4 %	16.4 %	30.7 %	1.8 %	5,661.9 %	57.0 %	0.9 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.003 ppb	-0.004 ppb	0.172 ppb	14.283 ppb	0.009 ppb	0.003 ppb	-0.024 ppb	0.079 ppb	93.549 %
Concentration per Run 1	0.001 ppb	-0.003 ppb	0.151 ppb	15.062 ppb	0.013 ppb	0.009 ppb	-0.027 ppb	0.042 ppb	86.665 %
Concentration per Run 2	0.018 ppb	-0.004 ppb	0.184 ppb	15.132 ppb	0.008 ppb	0.003 ppb	-0.010 ppb	0.118 ppb	94.353 %
Concentration per Run 3	-0.030 ppb	-0.004 ppb	0.182 ppb	12.653 ppb	0.007 ppb	-0.001 ppb	-0.035 ppb	0.076 ppb	99.628 %
Recovery Percentage 1	-0.067 %	-0.393 %	17.199 %	28.565 %	1.882 %	0.170 %	-2.411 %	1.577 %	
Concentration RSD	731.6 %	13.0 %	10.8 %	9.9 %	30.1 %	149.2 %	51.3 %	48.0 %	7.0 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.103 ppb	0.327 ppb	0.067 ppb	1.013 ppb	100.754 %	0.009 ppb	0.007 ppb	104.299 %	0.153 ppb
Concentration per Run 1	0.086 ppb	0.491 ppb	0.079 ppb	1.007 ppb	96.961 %	0.014 ppb	0.010 ppb	95.554 %	0.149 ppb
Concentration per Run 2	0.109 ppb	0.110 ppb	0.063 ppb	1.008 ppb	101.494 %	0.009 ppb	0.005 ppb	106.308 %	0.166 ppb
Concentration per Run 3	0.114 ppb	0.381 ppb	0.060 ppb	1.025 ppb	103.806 %	0.003 ppb	0.005 ppb	111.036 %	0.143 ppb
Recovery Percentage 1	20.575 %	6.545 %	0.673 %	50.660 %		2.241 %	3.431 %		3.819 %
Concentration RSD	14.5 %	60.0 %	15.1 %	1.0 %	3.5 %	60.1 %	37.6 %	7.6 %	8.0 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	0.009 ppb	104.894 %	104.501 %	0.406 ppb	0.013 ppb
Concentration per Run 1	0.006 ppb	96.932 %	94.379 %	0.369 ppb	0.023 ppb
Concentration per Run 2	0.004 ppb	107.472 %	107.000 %	0.466 ppb	0.009 ppb
Concentration per Run 3	0.018 ppb	110.277 %	112.125 %	0.382 ppb	0.007 ppb
Recovery Percentage 1	1.861 %			40.595 %	1.283 %
Concentration RSD	80.3 %	6.7 %	8.7 %	12.9 %	66.5 %

Alpha ICPMSQ Data with SRD

3/5/2024 5:01:37 AM

Analysis index:	121	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	zWG1891325-1 6020SL	Rack	2		
Analysis started at:	3/4/2024 3:38:44 PM	Vial	25		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	81.463 %	101.517 %	0.002 ppb	10.836 ppb	1.803 ppb	-1.653 ppb	-4.633 ppb	15.863 ppb	138.486 %
Concentration per Run 1	82.784 %	93.997 %	0.005 ppb	13.528 ppb	1.517 ppb	-1.412 ppb	-8.292 ppb	17.997 ppb	140.497 %
Concentration per Run 2	80.567 %	106.860 %	0.000 ppb	9.881 ppb	2.371 ppb	-0.938 ppb	-1.704 ppb	10.976 ppb	136.135 %
Concentration per Run 3	81.039 %	103.694 %	0.002 ppb	9.100 ppb	1.520 ppb	-2.608 ppb	-3.903 ppb	18.615 ppb	138.826 %
Concentration RSD	1.4 %	6.6 %	123.8 %	21.8 %	27.3 %	52.1 %	72.4 %	26.8 %	1.6 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.034 ppb	0.008 ppb	0.017 ppb	8.572 ppb	0.000 ppb	0.000 ppb	0.027 ppb	0.184 ppb	93.761 %
Concentration per Run 1	-0.043 ppb	0.009 ppb	0.018 ppb	13.831 ppb	0.002 ppb	-0.010 ppb	0.022 ppb	0.186 ppb	87.303 %
Concentration per Run 2	-0.023 ppb	-0.006 ppb	0.033 ppb	6.431 ppb	0.001 ppb	0.033 ppb	0.013 ppb	0.135 ppb	99.451 %
Concentration per Run 3	-0.036 ppb	0.022 ppb	0.001 ppb	5.455 ppb	-0.002 ppb	-0.021 ppb	0.046 ppb	0.231 ppb	94.529 %
Concentration RSD	29.0 %	169.7 %	93.7 %	53.4 %	1,310.8 %	5,749.9 %	64.3 %	26.0 %	6.5 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.069 ppb	0.112 ppb	0.016 ppb	0.629 ppb	105.721 %	-0.002 ppb	0.000 ppb	169.968 %	0.084 ppb
Concentration per Run 1	0.066 ppb	0.063 ppb	0.030 ppb	0.891 ppb	105.314 %	-0.002 ppb	0.001 ppb	240.487 %	0.052 ppb
Concentration per Run 2	0.096 ppb	0.071 ppb	0.010 ppb	0.487 ppb	108.338 %	-0.001 ppb	0.000 ppb	150.258 %	0.088 ppb
Concentration per Run 3	0.045 ppb	0.202 ppb	0.008 ppb	0.507 ppb	103.512 %	-0.002 ppb	0.001 ppb	119.159 %	0.112 ppb
Concentration RSD	36.6 %	69.7 %	76.8 %	36.2 %	2.3 %	23.5 %	171.7 %	37.1 %	35.4 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	0.002 ppb	131.371 %	125.857 %	0.132 ppb	0.000 ppb
Concentration per Run 1	-0.003 ppb	161.998 %	148.879 %	0.120 ppb	-0.002 ppb
Concentration per Run 2	0.016 ppb	119.864 %	119.476 %	0.158 ppb	0.001 ppb
Concentration per Run 3	-0.007 ppb	112.250 %	109.216 %	0.119 ppb	0.001 ppb
Concentration RSD	610.1 %	20.4 %	16.4 %	16.9 %	439.5 %

Alpha ICPMSQ Data with SRD

3/5/2024 5:01:37 AM

Analysis index:	122	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	WG1891325-2d10 6020SL	Rack	2		
Analysis started at:	3/4/2024 3:43:22 PM	Vial	26		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	80.201 %	100.198 %	5.358 ppb	1,058.064 ppb	1,013.131 ppb	205.687 ppb	1,005.868 ppb	923.923 ppb	107.557 %
Concentration per Run 1	81.720 %	94.987 %	5.275 ppb	1,134.280 ppb	1,091.244 ppb	231.981 ppb	1,076.301 ppb	971.060 ppb	108.691 %
Concentration per Run 2	79.395 %	109.037 %	5.371 ppb	972.923 ppb	925.603 ppb	181.776 ppb	910.032 ppb	879.712 ppb	106.842 %
Concentration per Run 3	79.489 %	96.570 %	5.429 ppb	1,066.987 ppb	1,022.546 ppb	203.305 ppb	1,031.271 ppb	920.998 ppb	107.139 %
Concentration RSD	1.6 %	7.7 %	1.5 %	7.7 %	8.2 %	12.2 %	8.5 %	5.0 %	0.9 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	49.591 ppb	20.151 ppb	52.517 ppb	130.172 ppb	51.982 ppb	51.711 ppb	26.046 ppb	50.102 ppb	97.273 %
Concentration per Run 1	51.680 ppb	20.942 ppb	53.925 ppb	131.204 ppb	53.697 ppb	54.357 ppb	26.639 ppb	51.328 ppb	98.639 %
Concentration per Run 2	45.525 ppb	18.787 ppb	49.982 ppb	119.533 ppb	48.840 ppb	48.115 ppb	24.547 ppb	47.658 ppb	100.652 %
Concentration per Run 3	51.568 ppb	20.724 ppb	53.644 ppb	139.779 ppb	53.409 ppb	52.661 ppb	26.953 ppb	51.320 ppb	92.528 %
Concentration RSD	7.1 %	5.9 %	4.2 %	7.8 %	5.2 %	6.2 %	5.0 %	4.2 %	4.3 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	12.255 ppb	11.725 ppb	96.760 ppb	96.377 ppb	101.426 %	5.059 ppb	5.368 ppb	108.480 %	37.351 ppb
Concentration per Run 1	12.670 ppb	12.937 ppb	103.034 ppb	98.036 ppb	98.558 %	5.210 ppb	5.484 ppb	109.941 %	39.221 ppb
Concentration per Run 2	11.300 ppb	10.861 ppb	90.525 ppb	92.495 ppb	105.402 %	5.006 ppb	5.314 ppb	108.458 %	35.241 ppb
Concentration per Run 3	12.795 ppb	11.375 ppb	96.722 ppb	98.598 ppb	100.319 %	4.960 ppb	5.307 ppb	107.042 %	37.590 ppb
Concentration RSD	6.8 %	9.2 %	6.5 %	3.5 %	3.5 %	2.6 %	1.9 %	1.3 %	5.4 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	204.231 ppb	107.595 %	107.795 %	12.135 ppb	55.593 ppb
Concentration per Run 1	218.382 ppb	104.288 %	106.380 %	12.418 ppb	57.810 ppb
Concentration per Run 2	195.344 ppb	111.904 %	112.020 %	11.719 ppb	52.787 ppb
Concentration per Run 3	198.967 ppb	106.594 %	104.986 %	12.267 ppb	56.181 ppb
Concentration RSD	6.1 %	3.6 %	3.5 %	3.0 %	4.6 %

Alpha ICPMSQ Data with SRD

3/5/2024 5:01:37 AM

Analysis index: 123
Analysis label: WG1891325-3d10 6020SL
Analysis started at: 3/4/2024 3:48:01 PM
User name ALPHALAB\Metals-Instrument
Rack 2
Vial 28
Comment <Comment>

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	78.411 %	97.493 %	5.009 ppb	4,330.555 ppb	1,335.197 ppb	194.943 ppb	3,467.115 ppb	4,205.970 ppb	99.775 %
Concentration per Run 1	79.944 %	97.559 %	4.937 ppb	4,530.221 ppb	1,397.991 ppb	206.697 ppb	3,647.691 ppb	4,477.499 ppb	100.242 %
Concentration per Run 2	78.551 %	97.164 %	5.042 ppb	4,253.990 ppb	1,309.584 ppb	186.914 ppb	3,333.555 ppb	3,999.529 ppb	100.074 %
Concentration per Run 3	76.737 %	97.757 %	5.048 ppb	4,207.456 ppb	1,298.017 ppb	191.218 ppb	3,420.100 ppb	4,140.882 ppb	99.009 %
Concentration RSD	2.1 %	0.3 %	1.2 %	4.0 %	4.1 %	5.3 %	4.7 %	5.8 %	0.7 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	46.095 ppb	18.488 ppb	49.175 ppb	118.922 ppb	48.057 ppb	49.091 ppb	24.859 ppb	46.352 ppb	95.677 %
Concentration per Run 1	47.156 ppb	18.561 ppb	49.599 ppb	124.043 ppb	47.624 ppb	48.956 ppb	24.642 ppb	46.076 ppb	97.981 %
Concentration per Run 2	45.610 ppb	18.472 ppb	49.231 ppb	117.023 ppb	48.294 ppb	48.383 ppb	24.702 ppb	45.466 ppb	94.519 %
Concentration per Run 3	45.517 ppb	18.431 ppb	48.696 ppb	115.701 ppb	48.253 ppb	49.936 ppb	25.233 ppb	47.513 ppb	94.531 %
Concentration RSD	2.0 %	0.4 %	0.9 %	3.8 %	0.8 %	1.6 %	1.3 %	2.3 %	2.1 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	11.462 ppb	10.511 ppb	102.248 ppb	91.455 ppb	99.595 %	4.690 ppb	5.016 ppb	106.594 %	45.737 ppb
Concentration per Run 1	11.717 ppb	11.476 ppb	107.635 ppb	89.310 ppb	100.750 %	4.762 ppb	5.002 ppb	110.980 %	46.482 ppb
Concentration per Run 2	11.301 ppb	10.108 ppb	98.419 ppb	91.567 ppb	99.893 %	4.601 ppb	5.022 ppb	105.297 %	44.771 ppb
Concentration per Run 3	11.369 ppb	9.948 ppb	100.689 ppb	93.487 ppb	98.142 %	4.706 ppb	5.024 ppb	103.506 %	45.957 ppb
Concentration RSD	1.9 %	8.0 %	4.7 %	2.3 %	1.3 %	1.7 %	0.2 %	3.7 %	1.9 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	195.329 ppb	107.054 %	107.068 %	11.236 ppb	51.325 ppb
Concentration per Run 1	205.666 ppb	110.067 %	113.108 %	10.832 ppb	49.735 ppb
Concentration per Run 2	186.816 ppb	106.596 %	104.512 %	11.384 ppb	51.775 ppb
Concentration per Run 3	193.506 ppb	104.500 %	103.585 %	11.492 ppb	52.467 ppb
Concentration RSD	4.9 %	2.6 %	4.9 %	3.1 %	2.8 %

Alpha ICPMSQ Data with SRD

3/5/2024 5:01:37 AM

Analysis index:	124	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	WG1891325-4d10 6020SL	Rack	2		
Analysis started at:	3/4/2024 3:52:40 PM	Vial	29		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	77.887 %	98.615 %	4.892 ppb	4,064.493 ppb	1,265.139 ppb	182.049 ppb	3,278.207 ppb	4,045.575 ppb	98.608 %
Concentration per Run 1	79.702 %	105.475 %	4.825 ppb	4,107.288 ppb	1,283.219 ppb	189.810 ppb	3,444.009 ppb	4,132.438 ppb	98.971 %
Concentration per Run 2	77.629 %	102.507 %	5.028 ppb	3,988.200 ppb	1,247.323 ppb	176.703 ppb	3,278.191 ppb	4,063.698 ppb	98.169 %
Concentration per Run 3	76.329 %	87.863 %	4.822 ppb	4,097.992 ppb	1,264.875 ppb	179.634 ppb	3,112.420 ppb	3,940.588 ppb	98.684 %
Concentration RSD	2.2 %	9.6 %	2.4 %	1.6 %	1.4 %	3.8 %	5.1 %	2.4 %	0.4 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	43.876 ppb	17.785 ppb	46.556 ppb	113.388 ppb	47.028 ppb	47.272 ppb	23.951 ppb	45.025 ppb	95.701 %
Concentration per Run 1	43.309 ppb	17.490 ppb	46.872 ppb	115.304 ppb	46.273 ppb	46.733 ppb	22.905 ppb	44.817 ppb	101.476 %
Concentration per Run 2	44.683 ppb	17.884 ppb	45.209 ppb	113.124 ppb	47.665 ppb	46.821 ppb	24.470 ppb	45.656 ppb	92.674 %
Concentration per Run 3	43.638 ppb	17.980 ppb	47.587 ppb	111.735 ppb	47.145 ppb	48.261 ppb	24.478 ppb	44.601 ppb	92.952 %
Concentration RSD	1.6 %	1.5 %	2.6 %	1.6 %	1.5 %	1.8 %	3.8 %	1.2 %	5.2 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	11.186 ppb	10.596 ppb	96.085 ppb	88.560 ppb	100.267 %	4.577 ppb	4.867 ppb	106.173 %	43.668 ppb
Concentration per Run 1	10.980 ppb	10.588 ppb	101.169 ppb	86.004 ppb	102.676 %	4.510 ppb	4.882 ppb	113.222 %	43.144 ppb
Concentration per Run 2	11.531 ppb	10.679 ppb	95.796 ppb	89.224 ppb	98.650 %	4.532 ppb	4.851 ppb	104.204 %	43.731 ppb
Concentration per Run 3	11.048 ppb	10.522 ppb	91.291 ppb	90.452 ppb	99.474 %	4.690 ppb	4.870 ppb	101.094 %	44.128 ppb
Concentration RSD	2.7 %	0.7 %	5.1 %	2.6 %	2.1 %	2.1 %	0.3 %	5.9 %	1.1 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	188.309 ppb	105.854 %	104.186 %	11.097 ppb	50.513 ppb
Concentration per Run 1	190.458 ppb	108.601 %	109.313 %	10.713 ppb	49.541 ppb
Concentration per Run 2	186.671 ppb	106.444 %	103.766 %	11.215 ppb	50.530 ppb
Concentration per Run 3	187.799 ppb	102.519 %	99.481 %	11.363 ppb	51.467 ppb
Concentration RSD	1.0 %	2.9 %	4.7 %	3.1 %	1.9 %

Alpha ICPMSQ Data with SRD

3/5/2024 5:01:37 AM

Analysis index:	125	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	WG1891325-5d10 6020SL	Rack	2		
Analysis started at:	3/4/2024 3:57:19 PM	Vial	30		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	75.480 %	92.480 %	52.709 ppb	8,916.425 ppb	5,616.329 ppb	56.512 ppb	7,898.649 ppb	8,758.554 ppb	84.921 %
Concentration per Run 1	76.088 %	92.810 %	52.984 ppb	9,837.213 ppb	6,299.387 ppb	66.307 ppb	9,112.891 ppb	10,302.153 ppb	85.324 %
Concentration per Run 2	76.121 %	93.404 %	52.637 ppb	8,545.790 ppb	5,280.976 ppb	52.385 ppb	7,500.935 ppb	8,005.729 ppb	85.281 %
Concentration per Run 3	74.232 %	91.227 %	52.507 ppb	8,366.270 ppb	5,268.624 ppb	50.846 ppb	7,082.122 ppb	7,967.778 ppb	84.157 %
Concentration RSD	1.4 %	1.2 %	0.5 %	9.0 %	10.5 %	15.1 %	13.6 %	15.3 %	0.8 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	51.134 ppb	51.679 ppb	53.480 ppb	5,328.245 ppb	53.788 ppb	54.038 ppb	54.047 ppb	51.809 ppb	88.563 %
Concentration per Run 1	56.937 ppb	58.643 ppb	60.984 ppb	6,036.938 ppb	59.948 ppb	59.584 ppb	59.222 ppb	58.573 ppb	85.049 %
Concentration per Run 2	47.486 ppb	48.401 ppb	49.997 ppb	4,980.297 ppb	50.617 ppb	50.627 ppb	50.762 ppb	48.707 ppb	92.873 %
Concentration per Run 3	48.979 ppb	47.993 ppb	49.459 ppb	4,967.500 ppb	50.799 ppb	51.904 ppb	52.157 ppb	48.146 ppb	87.769 %
Concentration RSD	9.9 %	11.7 %	12.2 %	11.5 %	9.9 %	9.0 %	8.4 %	11.3 %	4.5 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	53.737 ppb	52.294 ppb	67.762 ppb	55.994 ppb	89.913 %	0.620 ppb	57.612 ppb	89.183 %	56.317 ppb
Concentration per Run 1	61.704 ppb	61.914 ppb	80.442 ppb	61.383 ppb	84.718 %	0.685 ppb	63.462 ppb	88.025 %	62.409 ppb
Concentration per Run 2	49.825 ppb	46.402 ppb	62.398 ppb	53.067 ppb	94.647 %	0.575 ppb	55.584 ppb	91.702 %	53.339 ppb
Concentration per Run 3	49.683 ppb	48.567 ppb	60.447 ppb	53.531 ppb	90.374 %	0.599 ppb	53.790 ppb	87.822 %	53.203 ppb
Concentration RSD	12.8 %	16.1 %	16.3 %	8.3 %	5.5 %	9.3 %	8.9 %	2.4 %	9.4 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	64.801 ppb	94.515 %	94.615 %	56.278 ppb	58.247 ppb
Concentration per Run 1	73.234 ppb	90.075 %	90.316 %	61.066 ppb	63.518 ppb
Concentration per Run 2	60.808 ppb	97.900 %	98.521 %	52.456 ppb	55.399 ppb
Concentration per Run 3	60.361 ppb	95.570 %	95.007 %	55.311 ppb	55.824 ppb
Concentration RSD	11.3 %	4.3 %	4.4 %	7.8 %	7.8 %

Alpha ICPMSQ Data with SRD

3/5/2024 5:01:37 AM

Analysis index: 126
Analysis label: WG1891325-6d5 6020SL
Analysis started at: 3/4/2024 4:01:58 PM
User name ALPHALAB\Metals-Instrument
Rack 2
Vial 31
Comment <Comment>

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	76.651 %	95.185 %	0.014 ppb	6,791.950 ppb	821.000 ppb	2.233 ppb	5,187.993 ppb	6,862.687 ppb	83.124 %
Concentration per Run 1	77.474 %	90.633 %	0.017 ppb	7,429.228 ppb	890.515 ppb	2.252 ppb	5,414.627 ppb	7,399.106 ppb	83.435 %
Concentration per Run 2	76.485 %	101.715 %	0.015 ppb	6,171.466 ppb	743.976 ppb	2.301 ppb	4,665.654 ppb	6,214.260 ppb	82.914 %
Concentration per Run 3	75.994 %	93.206 %	0.009 ppb	6,775.156 ppb	828.508 ppb	2.146 ppb	5,483.699 ppb	6,974.696 ppb	83.022 %
Concentration RSD	1.0 %	6.1 %	29.1 %	9.3 %	9.0 %	3.5 %	8.7 %	8.7 %	0.3 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.017 ppb	0.169 ppb	1.815 ppb	26.585 ppb	0.064 ppb	0.339 ppb	0.669 ppb	0.299 ppb	90.272 %
Concentration per Run 1	0.009 ppb	0.123 ppb	1.877 ppb	29.015 ppb	0.074 ppb	0.377 ppb	0.635 ppb	0.308 ppb	88.105 %
Concentration per Run 2	0.032 ppb	0.173 ppb	1.586 ppb	25.718 ppb	0.047 ppb	0.248 ppb	0.652 ppb	0.261 ppb	94.745 %
Concentration per Run 3	0.009 ppb	0.210 ppb	1.983 ppb	25.023 ppb	0.072 ppb	0.394 ppb	0.720 ppb	0.329 ppb	87.967 %
Concentration RSD	79.7 %	25.7 %	11.3 %	8.0 %	22.9 %	23.4 %	6.7 %	11.6 %	4.3 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.155 ppb	0.356 ppb	24.778 ppb	1.420 ppb	94.546 %	-0.002 ppb	0.006 ppb	97.878 %	0.485 ppb
Concentration per Run 1	0.216 ppb	0.397 ppb	26.593 ppb	1.412 ppb	91.329 %	-0.002 ppb	0.009 ppb	99.051 %	0.465 ppb
Concentration per Run 2	0.088 ppb	0.457 ppb	22.910 ppb	1.281 ppb	97.433 %	-0.001 ppb	0.005 ppb	99.795 %	0.447 ppb
Concentration per Run 3	0.162 ppb	0.215 ppb	24.830 ppb	1.566 ppb	94.877 %	-0.001 ppb	0.005 ppb	94.788 %	0.543 ppb
Concentration RSD	41.3 %	35.4 %	7.4 %	10.1 %	3.2 %	46.2 %	37.2 %	2.8 %	10.5 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	13.668 ppb	99.599 %	99.675 %	0.424 ppb	0.030 ppb
Concentration per Run 1	14.090 ppb	97.508 %	97.269 %	0.361 ppb	0.037 ppb
Concentration per Run 2	12.868 ppb	103.033 %	104.534 %	0.467 ppb	0.024 ppb
Concentration per Run 3	14.046 ppb	98.258 %	97.221 %	0.445 ppb	0.029 ppb
Concentration RSD	5.1 %	3.0 %	4.2 %	13.1 %	22.5 %

Alpha ICPMSQ Data with SRD

3/5/2024 5:01:37 AM

Analysis index:	127	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	I2410579-08 6020SL	Rack	2		
Analysis started at:	3/4/2024 4:06:37 PM	Vial	27		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	77.232 %	95.251 %	0.014 ppb	38,572.721 ppb	4,501.624 ppb	3.464 ppb	27,656.154 ppb	36,723.773 ppb	96.725 %
Concentration per Run 1	79.604 %	90.831 %	0.007 ppb	40,601.342 ppb	4,749.534 ppb	2.552 ppb	28,514.416 ppb	38,134.895 ppb	98.236 %
Concentration per Run 2	77.197 %	95.778 %	0.018 ppb	38,072.257 ppb	4,411.708 ppb	3.040 ppb	26,281.945 ppb	36,156.302 ppb	97.127 %
Concentration per Run 3	74.895 %	99.142 %	0.018 ppb	37,044.563 ppb	4,343.629 ppb	4.802 ppb	28,172.100 ppb	35,880.120 ppb	94.813 %
Concentration RSD	3.0 %	4.4 %	42.1 %	4.7 %	4.8 %	34.2 %	4.3 %	3.3 %	1.8 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.299 ppb	0.868 ppb	9.185 ppb	17.902 ppb	0.302 ppb	1.839 ppb	3.351 ppb	0.574 ppb	93.862 %
Concentration per Run 1	0.384 ppb	0.977 ppb	9.627 ppb	19.745 ppb	0.308 ppb	1.951 ppb	3.490 ppb	0.589 ppb	89.110 %
Concentration per Run 2	0.224 ppb	0.810 ppb	9.546 ppb	15.848 ppb	0.280 ppb	1.927 ppb	3.251 ppb	0.557 ppb	96.943 %
Concentration per Run 3	0.291 ppb	0.817 ppb	8.381 ppb	18.114 ppb	0.318 ppb	1.638 ppb	3.312 ppb	0.575 ppb	95.534 %
Concentration RSD	26.8 %	10.9 %	7.6 %	10.9 %	6.6 %	9.5 %	3.7 %	2.8 %	4.4 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.336 ppb	0.423 ppb	130.569 ppb	0.929 ppb	95.593 %	0.000 ppb	0.018 ppb	100.418 %	0.331 ppb
Concentration per Run 1	0.295 ppb	0.436 ppb	136.212 ppb	0.884 ppb	90.600 %	-0.002 ppb	0.019 ppb	96.215 %	0.319 ppb
Concentration per Run 2	0.360 ppb	0.430 ppb	126.019 ppb	0.893 ppb	98.728 %	0.002 ppb	0.024 ppb	103.956 %	0.310 ppb
Concentration per Run 3	0.353 ppb	0.404 ppb	129.476 ppb	1.010 ppb	97.452 %	0.002 ppb	0.012 ppb	101.082 %	0.364 ppb
Concentration RSD	10.7 %	4.0 %	4.0 %	7.6 %	4.6 %	653.3 %	32.5 %	3.9 %	8.8 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	72.228 ppb	104.755 %	104.714 %	0.349 ppb	0.039 ppb
Concentration per Run 1	73.978 ppb	98.927 %	98.856 %	0.330 ppb	0.043 ppb
Concentration per Run 2	69.083 ppb	108.278 %	107.083 %	0.364 ppb	0.038 ppb
Concentration per Run 3	73.624 ppb	107.061 %	108.202 %	0.354 ppb	0.034 ppb
Concentration RSD	3.8 %	4.9 %	4.9 %	5.0 %	11.6 %

Alpha ICPMSQ Data with SRD

3/5/2024 5:01:37 AM

Analysis index:	128	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	I2410579-01 6020SL	Rack	2		
Analysis started at:	3/4/2024 4:11:16 PM	Vial	32		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	74.932 %	99.604 %	0.008 ppb	39,514.310 ppb	519.643 ppb	44.280 ppb	16,067.117 ppb	68,270.634 ppb	95.768 %
Concentration per Run 1	75.775 %	94.987 %	0.012 ppb	42,417.956 ppb	563.875 ppb	50.931 ppb	17,293.725 ppb	76,049.752 ppb	95.240 %
Concentration per Run 2	74.749 %	93.206 %	0.000 ppb	40,915.348 ppb	535.309 ppb	44.099 ppb	16,506.333 ppb	67,834.372 ppb	95.551 %
Concentration per Run 3	74.272 %	110.620 %	0.010 ppb	35,209.627 ppb	459.744 ppb	37.811 ppb	14,401.294 ppb	60,927.777 ppb	96.514 %
Concentration RSD	1.0 %	9.6 %	84.4 %	9.6 %	10.4 %	14.8 %	9.3 %	11.1 %	0.7 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	5.480 ppb	0.295 ppb	493.979 ppb	659.328 ppb	0.467 ppb	2.797 ppb	0.586 ppb	0.951 ppb	92.441 %
Concentration per Run 1	5.667 ppb	0.320 ppb	531.481 ppb	715.819 ppb	0.515 ppb	2.988 ppb	0.616 ppb	1.039 ppb	85.951 %
Concentration per Run 2	5.798 ppb	0.276 ppb	489.011 ppb	638.430 ppb	0.467 ppb	2.706 ppb	0.653 ppb	0.966 ppb	94.088 %
Concentration per Run 3	4.976 ppb	0.289 ppb	461.445 ppb	623.736 ppb	0.419 ppb	2.699 ppb	0.488 ppb	0.847 ppb	97.285 %
Concentration RSD	8.1 %	7.6 %	7.1 %	7.5 %	10.3 %	5.9 %	14.8 %	10.2 %	6.3 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	4.504 ppb	0.546 ppb	634.844 ppb	35.987 ppb	94.180 %	-0.002 ppb	0.003 ppb	97.438 %	0.551 ppb
Concentration per Run 1	4.957 ppb	0.697 ppb	703.234 ppb	38.878 ppb	84.702 %	-0.002 ppb	0.001 ppb	85.476 %	0.623 ppb
Concentration per Run 2	4.366 ppb	0.417 ppb	620.412 ppb	35.562 ppb	93.617 %	-0.002 ppb	0.005 ppb	94.249 %	0.544 ppb
Concentration per Run 3	4.189 ppb	0.525 ppb	580.887 ppb	33.521 ppb	104.221 %	-0.002 ppb	0.002 ppb	112.589 %	0.485 ppb
Concentration RSD	8.9 %	25.9 %	9.8 %	7.5 %	10.4 %	14.8 %	77.1 %	14.2 %	12.6 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	14.523 ppb	102.377 %	102.946 %	0.072 ppb	0.009 ppb
Concentration per Run 1	17.128 ppb	90.525 %	91.423 %	0.055 ppb	0.014 ppb
Concentration per Run 2	14.282 ppb	101.560 %	102.257 %	0.086 ppb	0.009 ppb
Concentration per Run 3	12.160 ppb	115.046 %	115.157 %	0.075 ppb	0.005 ppb
Concentration RSD	17.2 %	12.0 %	11.5 %	22.3 %	50.6 %

Alpha ICPMSQ Data with SRD

3/5/2024 5:01:37 AM

Analysis index:	129	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	I2410579-02 6020SL	Rack	2		
Analysis started at:	3/4/2024 4:15:55 PM	Vial	33		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	78.690 %	103.628 %	0.008 ppb	7,451.959 ppb	6,805.382 ppb	-0.774 ppb	12,964.771 ppb	79,408.957 ppb	95.594 %
Concentration per Run 1	79.797 %	101.913 %	0.009 ppb	7,787.178 ppb	7,105.591 ppb	-0.124 ppb	13,683.469 ppb	82,701.861 ppb	95.974 %
Concentration per Run 2	78.929 %	101.121 %	0.008 ppb	7,509.877 ppb	6,825.727 ppb	-0.894 ppb	12,932.838 ppb	79,279.710 ppb	95.684 %
Concentration per Run 3	77.345 %	107.850 %	0.008 ppb	7,058.823 ppb	6,484.827 ppb	-1.304 ppb	12,278.008 ppb	76,245.300 ppb	95.126 %
Concentration RSD	1.6 %	3.5 %	11.1 %	4.9 %	4.6 %	77.3 %	5.4 %	4.1 %	0.5 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.341 ppb	1.859 ppb	0.189 ppb	6.255 ppb	0.487 ppb	0.251 ppb	1.783 ppb	0.393 ppb	93.395 %
Concentration per Run 1	0.439 ppb	1.940 ppb	0.190 ppb	5.790 ppb	0.536 ppb	0.252 ppb	2.006 ppb	0.448 ppb	84.397 %
Concentration per Run 2	0.240 ppb	1.929 ppb	0.169 ppb	7.790 ppb	0.473 ppb	0.256 ppb	1.672 ppb	0.352 ppb	96.490 %
Concentration per Run 3	0.344 ppb	1.709 ppb	0.207 ppb	5.186 ppb	0.454 ppb	0.244 ppb	1.670 ppb	0.380 ppb	99.299 %
Concentration RSD	29.2 %	7.0 %	10.1 %	21.8 %	8.8 %	2.4 %	10.8 %	12.6 %	8.5 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.264 ppb	0.857 ppb	326.370 ppb	7.475 ppb	98.109 %	-0.001 ppb	0.006 ppb	103.912 %	0.447 ppb
Concentration per Run 1	0.369 ppb	0.840 ppb	351.938 ppb	7.877 ppb	93.694 %	-0.002 ppb	0.006 ppb	99.377 %	0.476 ppb
Concentration per Run 2	0.221 ppb	0.732 ppb	315.482 ppb	7.216 ppb	100.116 %	-0.001 ppb	0.003 ppb	105.218 %	0.420 ppb
Concentration per Run 3	0.201 ppb	0.999 ppb	311.689 ppb	7.332 ppb	100.516 %	-0.001 ppb	0.008 ppb	107.140 %	0.445 ppb
Concentration RSD	34.9 %	15.7 %	6.8 %	4.7 %	3.9 %	39.8 %	41.3 %	3.9 %	6.3 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	31.674 ppb	106.487 %	104.739 %	0.071 ppb	0.047 ppb
Concentration per Run 1	32.592 ppb	102.849 %	100.917 %	0.053 ppb	0.053 ppb
Concentration per Run 2	31.089 ppb	106.816 %	106.422 %	0.080 ppb	0.046 ppb
Concentration per Run 3	31.340 ppb	109.797 %	106.878 %	0.081 ppb	0.041 ppb
Concentration RSD	2.5 %	3.3 %	3.2 %	22.4 %	12.7 %

Alpha ICPMSQ Data with SRD

3/5/2024 5:01:37 AM

Analysis index:	130	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	I2410579-03 6020SL	Rack	2		
Analysis started at:	3/4/2024 4:20:34 PM	Vial	34		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	75.941 %	103.892 %	0.008 ppb	14,638.065 ppb	9,945.608 ppb	0.082 ppb	21,220.370 ppb	105,542.070 ppb	96.864 %
Concentration per Run 1	77.068 %	104.288 %	0.008 ppb	14,616.082 ppb	10,070.861 ppb	-0.549 ppb	21,810.059 ppb	107,238.056 ppb	96.639 %
Concentration per Run 2	76.240 %	105.277 %	0.003 ppb	14,378.590 ppb	9,723.435 ppb	0.903 ppb	20,803.482 ppb	105,001.906 ppb	97.779 %
Concentration per Run 3	74.516 %	102.111 %	0.013 ppb	14,919.523 ppb	10,042.529 ppb	-0.108 ppb	21,047.570 ppb	104,386.248 ppb	96.175 %
Concentration RSD	1.7 %	1.6 %	58.0 %	1.9 %	1.9 %	907.1 %	2.5 %	1.4 %	0.9 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	1.098 ppb	1.948 ppb	0.289 ppb	6.882 ppb	0.535 ppb	0.580 ppb	1.820 ppb	1.284 ppb	95.517 %
Concentration per Run 1	1.209 ppb	1.919 ppb	0.223 ppb	7.614 ppb	0.546 ppb	0.567 ppb	1.956 ppb	1.369 ppb	92.356 %
Concentration per Run 2	1.040 ppb	1.931 ppb	0.225 ppb	7.307 ppb	0.544 ppb	0.667 ppb	1.777 ppb	1.172 ppb	97.056 %
Concentration per Run 3	1.044 ppb	1.993 ppb	0.419 ppb	5.725 ppb	0.516 ppb	0.505 ppb	1.727 ppb	1.311 ppb	97.139 %
Concentration RSD	8.8 %	2.1 %	38.9 %	14.7 %	3.1 %	14.1 %	6.6 %	7.9 %	2.9 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.366 ppb	0.784 ppb	489.933 ppb	2.986 ppb	95.926 %	-0.002 ppb	0.004 ppb	102.277 %	0.600 ppb
Concentration per Run 1	0.341 ppb	0.872 ppb	506.527 ppb	3.140 ppb	92.599 %	-0.003 ppb	0.003 ppb	98.518 %	0.642 ppb
Concentration per Run 2	0.402 ppb	0.906 ppb	479.145 ppb	2.871 ppb	96.879 %	-0.002 ppb	0.008 ppb	104.243 %	0.559 ppb
Concentration per Run 3	0.355 ppb	0.572 ppb	484.126 ppb	2.947 ppb	98.301 %	-0.001 ppb	0.001 ppb	104.069 %	0.598 ppb
Concentration RSD	8.7 %	23.5 %	3.0 %	4.7 %	3.1 %	65.2 %	89.3 %	3.2 %	6.9 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	106.131 ppb	104.407 %	102.687 %	0.111 ppb	0.011 ppb
Concentration per Run 1	111.958 ppb	100.680 %	98.492 %	0.096 ppb	0.015 ppb
Concentration per Run 2	101.606 ppb	105.151 %	102.945 %	0.120 ppb	0.011 ppb
Concentration per Run 3	104.827 ppb	107.390 %	106.624 %	0.116 ppb	0.008 ppb
Concentration RSD	5.0 %	3.3 %	4.0 %	11.7 %	29.8 %

Alpha ICPMSQ Data with SRD

3/5/2024 5:01:37 AM

Analysis index:	131	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	CCV	Rack	0		
Analysis started at:	3/4/2024 4:25:14 PM	Vial	9		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	74.452 %	96.570 %	64.597 ppb	6,450.977 ppb	6,432.072 ppb	65.118 ppb	6,238.825 ppb	6,046.960 ppb	88.343 %
Concentration per Run 1	76.676 %	96.768 %	64.083 ppb	6,533.337 ppb	6,444.700 ppb	68.093 ppb	6,244.663 ppb	5,991.344 ppb	89.501 %
Concentration per Run 2	73.929 %	104.288 %	64.216 ppb	5,794.038 ppb	5,873.218 ppb	54.187 ppb	5,687.174 ppb	5,675.703 ppb	87.284 %
Concentration per Run 3	72.750 %	88.654 %	65.492 ppb	7,025.556 ppb	6,978.297 ppb	73.073 ppb	6,784.637 ppb	6,473.833 ppb	88.246 %
Recovery Percentage 1			107.662 %	107.516 %	107.201 %	108.530 %	103.980 %	100.783 %	
Concentration RSD	2.7 %	8.1 %	1.2 %	9.6 %	8.6 %	15.0 %	8.8 %	6.6 %	1.3 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	62.107 ppb	63.295 ppb	64.217 ppb	6,656.599 ppb	67.380 ppb	68.204 ppb	68.605 ppb	65.721 ppb	90.497 %
Concentration per Run 1	64.382 ppb	64.486 ppb	65.112 ppb	6,752.467 ppb	70.777 ppb	70.930 ppb	71.579 ppb	68.020 ppb	85.287 %
Concentration per Run 2	56.319 ppb	57.080 ppb	58.910 ppb	5,931.939 ppb	59.074 ppb	60.875 ppb	60.614 ppb	58.292 ppb	100.240 %
Concentration per Run 3	65.620 ppb	68.319 ppb	68.628 ppb	7,285.392 ppb	72.290 ppb	72.807 ppb	73.620 ppb	70.851 ppb	85.965 %
Recovery Percentage 1	103.512 %	105.492 %	107.028 %	110.943 %	112.300 %	113.674 %	114.341 %	109.535 %	
Concentration RSD	8.1 %	9.0 %	7.7 %	10.2 %	10.7 %	9.4 %	10.2 %	10.0 %	9.3 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	65.472 ppb	64.008 ppb	62.083 ppb	64.649 ppb	94.891 %	68.383 ppb	68.978 ppb	94.974 %	67.244 ppb
Concentration per Run 1	67.292 ppb	66.692 ppb	62.523 ppb	64.734 ppb	91.236 %	69.331 ppb	69.769 ppb	91.813 %	67.073 ppb
Concentration per Run 2	59.619 ppb	56.951 ppb	57.845 ppb	60.283 ppb	101.506 %	63.998 ppb	63.046 ppb	102.313 %	62.357 ppb
Concentration per Run 3	69.505 ppb	68.382 ppb	65.883 ppb	68.930 ppb	91.930 %	71.821 ppb	74.120 ppb	90.796 %	72.301 ppb
Recovery Percentage 1	109.120 %	106.681 %	103.472 %	107.748 %		113.972 %	114.963 %		112.073 %
Concentration RSD	7.9 %	9.6 %	6.5 %	6.7 %	6.0 %	5.8 %	8.1 %	6.7 %	7.4 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	66.238 ppb	99.714 %	98.555 %	69.142 ppb	69.800 ppb
Concentration per Run 1	66.991 ppb	97.280 %	93.457 %	70.274 ppb	73.086 ppb
Concentration per Run 2	61.024 ppb	106.568 %	106.918 %	63.932 ppb	63.318 ppb
Concentration per Run 3	70.699 ppb	95.295 %	95.291 %	73.222 ppb	72.997 ppb
Recovery Percentage 1	110.397 %			115.237 %	116.333 %
Concentration RSD	7.4 %	6.0 %	7.4 %	6.9 %	8.0 %

Alpha ICPMSQ Data with SRD

3/5/2024 5:01:37 AM

Analysis index:	132	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	CCB	Rack	0		
Analysis started at:	3/4/2024 4:29:56 PM	Vial	10		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	73.922 %	101.385 %	0.018 ppb	-0.032 ppb	0.464 ppb	-2.876 ppb	-2.275 ppb	4.555 ppb	87.397 %
Concentration per Run 1	76.525 %	92.414 %	0.022 ppb	5.091 ppb	0.490 ppb	-2.600 ppb	-4.258 ppb	5.576 ppb	87.917 %
Concentration per Run 2	73.546 %	101.319 %	0.008 ppb	-1.615 ppb	0.388 ppb	-2.969 ppb	2.586 ppb	5.823 ppb	86.741 %
Concentration per Run 3	71.694 %	110.422 %	0.024 ppb	-3.573 ppb	0.515 ppb	-3.059 ppb	-5.154 ppb	2.265 ppb	87.532 %
Recovery Percentage 1			3.620 %	-0.032 %	0.663 %	-28.761 %	-2.275 %	4.555 %	
Concentration RSD	3.3 %	8.9 %	46.8 %	13,984.0 %	14.5 %	8.5 %	186.1 %	43.6 %	0.7 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.026 ppb	-0.005 ppb	0.020 ppb	11.014 ppb	0.005 ppb	0.015 ppb	-0.009 ppb	0.107 ppb	90.494 %
Concentration per Run 1	-0.020 ppb	0.008 ppb	0.034 ppb	11.210 ppb	0.009 ppb	0.011 ppb	-0.005 ppb	0.150 ppb	83.766 %
Concentration per Run 2	-0.022 ppb	-0.013 ppb	0.025 ppb	13.078 ppb	0.001 ppb	0.008 ppb	-0.014 ppb	0.104 ppb	94.992 %
Concentration per Run 3	-0.036 ppb	-0.009 ppb	0.000 ppb	8.755 ppb	0.003 ppb	0.026 ppb	-0.006 ppb	0.066 ppb	92.723 %
Recovery Percentage 1	-0.520 %	-0.469 %	1.997 %	22.029 %	0.901 %	0.761 %	-0.856 %	2.135 %	
Concentration RSD	33.4 %	233.4 %	87.7 %	19.7 %	94.7 %	61.3 %	60.3 %	39.4 %	6.6 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.120 ppb	0.282 ppb	0.023 ppb	0.969 ppb	97.166 %	0.007 ppb	0.006 ppb	97.432 %	0.126 ppb
Concentration per Run 1	0.119 ppb	0.277 ppb	0.042 ppb	0.906 ppb	90.722 %	0.008 ppb	0.006 ppb	91.365 %	0.107 ppb
Concentration per Run 2	0.083 ppb	0.282 ppb	0.022 ppb	0.911 ppb	99.902 %	0.009 ppb	0.006 ppb	100.373 %	0.128 ppb
Concentration per Run 3	0.158 ppb	0.287 ppb	0.006 ppb	1.088 ppb	100.875 %	0.004 ppb	0.004 ppb	100.559 %	0.143 ppb
Recovery Percentage 1	24.013 %	5.640 %	0.230 %	48.435 %		1.758 %	2.764 %		3.154 %
Concentration RSD	31.1 %	1.9 %	77.8 %	10.7 %	5.8 %	36.2 %	17.1 %	5.4 %	14.1 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	0.009 ppb	102.102 %	99.546 %	0.466 ppb	0.010 ppb
Concentration per Run 1	-0.005 ppb	94.883 %	92.081 %	0.419 ppb	0.019 ppb
Concentration per Run 2	0.020 ppb	106.505 %	103.372 %	0.536 ppb	0.007 ppb
Concentration per Run 3	0.010 ppb	104.917 %	103.186 %	0.444 ppb	0.005 ppb
Recovery Percentage 1	1.703 %			46.588 %	1.049 %
Concentration RSD	146.8 %	6.2 %	6.5 %	13.2 %	70.3 %

Alpha ICPMSQ Data with SRD

3/5/2024 5:01:37 AM

Analysis index:	133	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	CCV	Rack	0		
Analysis started at:	3/4/2024 4:49:21 PM	Vial	9		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	73.843 %	101.187 %	62.502 ppb	5,902.817 ppb	5,842.246 ppb	58.800 ppb	5,866.705 ppb	5,849.841 ppb	110.537 %
Concentration per Run 1	75.872 %	99.142 %	62.032 ppb	5,992.595 ppb	5,921.560 ppb	59.081 ppb	6,021.507 ppb	6,196.205 ppb	112.693 %
Concentration per Run 2	73.452 %	105.673 %	62.766 ppb	5,883.789 ppb	5,889.378 ppb	61.308 ppb	5,744.919 ppb	5,645.485 ppb	110.004 %
Concentration per Run 3	72.204 %	98.747 %	62.708 ppb	5,832.066 ppb	5,715.801 ppb	56.012 ppb	5,833.689 ppb	5,707.834 ppb	108.915 %
Recovery Percentage 1			104.170 %	98.380 %	97.371 %	98.000 %	97.778 %	97.497 %	
Concentration RSD	2.5 %	3.8 %	0.7 %	1.4 %	1.9 %	4.5 %	2.4 %	5.2 %	1.8 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	59.829 ppb	59.920 ppb	60.073 ppb	6,180.665 ppb	62.013 ppb	61.480 ppb	61.904 ppb	64.593 ppb	95.513 %
Concentration per Run 1	61.226 ppb	62.342 ppb	62.133 ppb	6,507.590 ppb	66.213 ppb	65.700 ppb	67.036 ppb	68.443 ppb	88.663 %
Concentration per Run 2	59.689 ppb	59.936 ppb	60.840 ppb	6,172.976 ppb	62.004 ppb	60.763 ppb	60.816 ppb	65.576 ppb	96.298 %
Concentration per Run 3	58.572 ppb	57.483 ppb	57.247 ppb	5,861.430 ppb	57.821 ppb	57.977 ppb	57.861 ppb	59.760 ppb	101.578 %
Recovery Percentage 1	99.715 %	99.867 %	100.122 %	103.011 %	103.354 %	102.467 %	103.173 %	107.655 %	
Concentration RSD	2.2 %	4.1 %	4.2 %	5.2 %	6.8 %	6.4 %	7.6 %	6.8 %	6.8 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	60.960 ppb	61.618 ppb	59.229 ppb	60.185 ppb	99.448 %	61.667 ppb	60.702 ppb	108.677 %	57.530 ppb
Concentration per Run 1	65.049 ppb	62.791 ppb	61.944 ppb	62.581 ppb	92.595 %	65.976 ppb	63.197 ppb	105.065 %	58.679 ppb
Concentration per Run 2	60.483 ppb	63.609 ppb	60.339 ppb	61.425 ppb	101.995 %	60.431 ppb	60.056 ppb	111.928 %	58.260 ppb
Concentration per Run 3	57.347 ppb	58.453 ppb	55.404 ppb	56.550 ppb	103.755 %	58.593 ppb	58.853 ppb	109.039 %	55.651 ppb
Recovery Percentage 1	101.600 %	102.696 %	98.715 %	100.309 %		102.778 %	101.170 %		95.883 %
Concentration RSD	6.4 %	4.5 %	5.8 %	5.3 %	6.0 %	6.2 %	3.7 %	3.2 %	2.9 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	59.264 ppb	111.314 %	109.683 %	61.895 ppb	61.807 ppb
Concentration per Run 1	60.604 ppb	109.470 %	106.245 %	61.781 ppb	64.193 ppb
Concentration per Run 2	60.280 ppb	111.055 %	109.041 %	62.896 ppb	62.438 ppb
Concentration per Run 3	56.907 ppb	113.416 %	113.763 %	61.009 ppb	58.790 ppb
Recovery Percentage 1	98.773 %			103.158 %	103.012 %
Concentration RSD	3.5 %	1.8 %	3.5 %	1.5 %	4.5 %

Alpha ICPMSQ Data with SRD

3/5/2024 5:01:37 AM

Analysis index: 134
Analysis label: CCB
Analysis started at: 3/4/2024 4:54:02 PM
User name ALPHALAB\Metals-Instrument
Rack 0
Vial 10
Comment <Comment>

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	73.321 %	95.778 %	0.018 ppb	-3.980 ppb	0.433 ppb	-3.039 ppb	-1.519 ppb	3.186 ppb	86.295 %
Concentration per Run 1	74.816 %	86.477 %	0.014 ppb	-0.520 ppb	0.318 ppb	-3.255 ppb	-0.318 ppb	2.144 ppb	86.779 %
Concentration per Run 2	73.511 %	101.121 %	0.021 ppb	-5.535 ppb	0.576 ppb	-2.750 ppb	-5.989 ppb	3.558 ppb	87.014 %
Concentration per Run 3	71.637 %	99.736 %	0.019 ppb	-5.884 ppb	0.406 ppb	-3.114 ppb	1.752 ppb	3.856 ppb	85.092 %
Recovery Percentage 1			3.586 %	-3.980 %	0.619 %	-30.395 %	-1.519 %	3.186 %	
Concentration RSD	2.2 %	8.4 %	21.6 %	75.4 %	30.3 %	8.6 %	263.9 %	28.7 %	1.2 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.016 ppb	-0.011 ppb	0.033 ppb	13.122 ppb	0.002 ppb	0.023 ppb	-0.020 ppb	0.098 ppb	91.454 %
Concentration per Run 1	-0.004 ppb	-0.024 ppb	0.049 ppb	15.386 ppb	0.002 ppb	0.052 ppb	-0.022 ppb	0.103 ppb	84.202 %
Concentration per Run 2	-0.016 ppb	0.002 ppb	0.024 ppb	11.721 ppb	0.003 ppb	0.024 ppb	-0.034 ppb	0.072 ppb	97.632 %
Concentration per Run 3	-0.029 ppb	-0.012 ppb	0.027 ppb	12.260 ppb	0.001 ppb	-0.008 ppb	-0.006 ppb	0.120 ppb	92.527 %
Recovery Percentage 1	-0.324 %	-1.145 %	3.343 %	26.244 %	0.392 %	1.139 %	-2.045 %	1.967 %	
Concentration RSD	76.9 %	111.6 %	41.7 %	15.1 %	40.2 %	131.1 %	69.6 %	24.7 %	7.4 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.065 ppb	0.403 ppb	0.000 ppb	0.911 ppb	98.178 %	0.007 ppb	0.005 ppb	102.942 %	0.098 ppb
Concentration per Run 1	0.086 ppb	0.652 ppb	0.004 ppb	0.935 ppb	93.457 %	0.009 ppb	0.005 ppb	95.986 %	0.093 ppb
Concentration per Run 2	0.079 ppb	0.316 ppb	-0.001 ppb	0.826 ppb	101.276 %	0.005 ppb	0.006 ppb	111.190 %	0.090 ppb
Concentration per Run 3	0.031 ppb	0.242 ppb	-0.002 ppb	0.972 ppb	99.801 %	0.006 ppb	0.003 ppb	101.649 %	0.109 ppb
Recovery Percentage 1	13.100 %	8.069 %	0.004 %	45.554 %		1.641 %	2.413 %		2.438 %
Concentration RSD	45.6 %	54.1 %	720.1 %	8.4 %	4.2 %	29.5 %	33.0 %	7.5 %	10.4 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	0.013 ppb	103.325 %	102.954 %	0.492 ppb	0.010 ppb
Concentration per Run 1	0.006 ppb	97.694 %	96.091 %	0.435 ppb	0.018 ppb
Concentration per Run 2	0.038 ppb	108.151 %	109.423 %	0.542 ppb	0.007 ppb
Concentration per Run 3	-0.006 ppb	104.130 %	103.347 %	0.499 ppb	0.004 ppb
Recovery Percentage 1	2.536 %			49.184 %	0.990 %
Concentration RSD	177.5 %	5.1 %	6.5 %	10.9 %	74.8 %

Alpha ICPMSQ Data with SRD

3/5/2024 5:01:37 AM

Analysis index:	135	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	WG1891325-1 6020SL	Rack	2		
Analysis started at:	3/4/2024 5:12:33 PM	Vial	25		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	81.663 %	107.256 %	0.005 ppb	-0.076 ppb	1.659 ppb	-1.787 ppb	-3.665 ppb	19.581 ppb	101.176 %
Concentration per Run 1	84.288 %	101.319 %	0.003 ppb	1.743 ppb	2.329 ppb	-1.187 ppb	5.769 ppb	26.884 ppb	102.471 %
Concentration per Run 2	80.658 %	109.037 %	0.006 ppb	-0.563 ppb	1.794 ppb	-1.798 ppb	-11.459 ppb	19.924 ppb	99.398 %
Concentration per Run 3	80.042 %	111.412 %	0.005 ppb	-1.408 ppb	0.853 ppb	-2.376 ppb	-5.306 ppb	11.936 ppb	101.660 %
Concentration RSD	2.8 %	4.9 %	38.1 %	2,145.2 %	45.0 %	33.3 %	238.2 %	38.2 %	1.6 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.029 ppb	0.005 ppb	0.015 ppb	2.114 ppb	-0.002 ppb	0.009 ppb	0.009 ppb	0.182 ppb	96.815 %
Concentration per Run 1	-0.009 ppb	0.004 ppb	0.013 ppb	2.122 ppb	0.000 ppb	0.037 ppb	-0.003 ppb	0.204 ppb	95.440 %
Concentration per Run 2	-0.043 ppb	0.015 ppb	-0.001 ppb	1.501 ppb	-0.002 ppb	0.000 ppb	0.017 ppb	0.186 ppb	97.202 %
Concentration per Run 3	-0.036 ppb	-0.006 ppb	0.033 ppb	2.720 ppb	-0.002 ppb	-0.012 ppb	0.013 ppb	0.157 ppb	97.804 %
Concentration RSD	61.5 %	230.6 %	114.3 %	28.8 %	61.4 %	295.5 %	119.8 %	13.0 %	1.3 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.072 ppb	0.057 ppb	0.012 ppb	0.079 ppb	101.394 %	0.000 ppb	0.000 ppb	107.880 %	0.031 ppb
Concentration per Run 1	0.086 ppb	0.064 ppb	0.012 ppb	0.064 ppb	96.319 %	0.000 ppb	0.001 ppb	106.134 %	0.026 ppb
Concentration per Run 2	0.122 ppb	0.031 ppb	0.015 ppb	0.084 ppb	103.240 %	0.000 ppb	0.000 ppb	108.572 %	0.029 ppb
Concentration per Run 3	0.007 ppb	0.075 ppb	0.009 ppb	0.090 ppb	104.623 %	0.000 ppb	0.001 ppb	108.934 %	0.038 ppb
Concentration RSD	82.5 %	39.9 %	25.8 %	17.0 %	4.4 %	401.4 %	170.2 %	1.4 %	19.2 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	0.012 ppb	105.196 %	106.375 %	0.070 ppb	-0.004 ppb
Concentration per Run 1	0.010 ppb	101.299 %	102.999 %	0.061 ppb	-0.002 ppb
Concentration per Run 2	-0.001 ppb	106.391 %	106.296 %	0.079 ppb	-0.005 ppb
Concentration per Run 3	0.028 ppb	107.898 %	109.831 %	0.069 ppb	-0.006 ppb
Concentration RSD	121.6 %	3.3 %	3.2 %	12.5 %	52.7 %

Alpha ICPMSQ Data with SRD

3/5/2024 5:01:37 AM

Analysis index:	136	User name	ALPHALAB\Metals-Instrument	Comment	eb
Analysis label:	I2410579-10 6020SL	Rack	2		
Analysis started at:	3/4/2024 5:17:13 PM	Vial	40		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	78.520 %	102.573 %	0.006 ppb	-2.996 ppb	1.480 ppb	-1.095 ppb	-3.010 ppb	16.660 ppb	94.446 %
Concentration per Run 1	79.397 %	95.383 %	0.009 ppb	-0.288 ppb	1.860 ppb	-0.699 ppb	3.985 ppb	26.547 ppb	93.782 %
Concentration per Run 2	78.728 %	113.589 %	0.007 ppb	-6.011 ppb	1.201 ppb	-1.419 ppb	-10.155 ppb	14.228 ppb	94.646 %
Concentration per Run 3	77.436 %	98.747 %	0.003 ppb	-2.690 ppb	1.380 ppb	-1.168 ppb	-2.862 ppb	9.205 ppb	94.909 %
Concentration RSD	1.3 %	9.4 %	44.6 %	95.9 %	23.0 %	33.4 %	234.9 %	53.6 %	0.6 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.016 ppb	0.219 ppb	0.075 ppb	3.587 ppb	0.021 ppb	0.100 ppb	0.193 ppb	0.236 ppb	95.749 %
Concentration per Run 1	-0.008 ppb	0.250 ppb	0.189 ppb	4.263 ppb	0.022 ppb	0.069 ppb	0.236 ppb	0.239 ppb	94.474 %
Concentration per Run 2	-0.010 ppb	0.212 ppb	-0.001 ppb	3.328 ppb	0.016 ppb	0.093 ppb	0.180 ppb	0.242 ppb	94.352 %
Concentration per Run 3	-0.029 ppb	0.194 ppb	0.036 ppb	3.171 ppb	0.026 ppb	0.138 ppb	0.162 ppb	0.228 ppb	98.421 %
Concentration RSD	75.1 %	13.2 %	134.4 %	16.5 %	23.5 %	35.1 %	20.1 %	3.2 %	2.4 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.055 ppb	0.017 ppb	0.024 ppb	0.080 ppb	102.993 %	-0.001 ppb	0.002 ppb	105.359 %	0.037 ppb
Concentration per Run 1	0.069 ppb	-0.003 ppb	0.031 ppb	0.048 ppb	99.542 %	-0.001 ppb	0.001 ppb	104.383 %	0.039 ppb
Concentration per Run 2	0.034 ppb	0.035 ppb	0.020 ppb	0.094 ppb	104.625 %	0.000 ppb	0.001 ppb	103.931 %	0.037 ppb
Concentration per Run 3	0.062 ppb	0.018 ppb	0.022 ppb	0.096 ppb	104.810 %	-0.001 ppb	0.003 ppb	107.764 %	0.036 ppb
Concentration RSD	33.8 %	111.1 %	24.4 %	34.2 %	2.9 %	65.2 %	83.8 %	2.0 %	4.7 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	0.018 ppb	105.986 %	104.832 %	0.046 ppb	-0.002 ppb
Concentration per Run 1	0.031 ppb	102.545 %	102.748 %	0.028 ppb	-0.001 ppb
Concentration per Run 2	0.015 ppb	106.232 %	103.388 %	0.054 ppb	-0.003 ppb
Concentration per Run 3	0.009 ppb	109.181 %	108.359 %	0.056 ppb	-0.003 ppb
Concentration RSD	63.6 %	3.1 %	2.9 %	33.6 %	41.9 %

Alpha ICPMSQ Data with SRD

3/5/2024 5:01:37 AM

Analysis index:	137	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	I2410579-04 6020SL	Rack	2		
Analysis started at:	3/4/2024 5:21:52 PM	Vial	35		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	78.758 %	98.813 %	0.092 ppb	19,861.867 ppb	8,848.264 ppb	15.850 ppb	7,393.967 ppb	47,039.670 ppb	96.683 %
Concentration per Run 1	81.555 %	93.601 %	0.098 ppb	20,816.337 ppb	9,428.867 ppb	16.084 ppb	7,775.389 ppb	50,104.242 ppb	97.883 %
Concentration per Run 2	78.045 %	100.726 %	0.091 ppb	19,534.811 ppb	8,620.137 ppb	16.324 ppb	6,995.483 ppb	45,151.502 ppb	95.962 %
Concentration per Run 3	76.674 %	102.111 %	0.088 ppb	19,234.454 ppb	8,495.789 ppb	15.143 ppb	7,411.030 ppb	45,863.265 ppb	96.205 %
Concentration RSD	3.2 %	4.6 %	5.8 %	4.2 %	5.7 %	3.9 %	5.3 %	5.7 %	1.1 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.082 ppb	1.186 ppb	5.135 ppb	44.819 ppb	0.328 ppb	4.233 ppb	0.522 ppb	1.658 ppb	96.539 %
Concentration per Run 1	0.092 ppb	1.225 ppb	5.383 ppb	45.939 ppb	0.367 ppb	4.493 ppb	0.577 ppb	1.764 ppb	92.365 %
Concentration per Run 2	0.063 ppb	1.147 ppb	5.267 ppb	47.467 ppb	0.325 ppb	4.201 ppb	0.477 ppb	1.651 ppb	99.510 %
Concentration per Run 3	0.090 ppb	1.186 ppb	4.754 ppb	41.052 ppb	0.291 ppb	4.004 ppb	0.510 ppb	1.561 ppb	97.741 %
Concentration RSD	20.1 %	3.3 %	6.5 %	7.5 %	11.6 %	5.8 %	9.8 %	6.1 %	3.9 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.522 ppb	3.220 ppb	257.969 ppb	0.260 ppb	98.033 %	-0.001 ppb	0.088 ppb	104.319 %	0.062 ppb
Concentration per Run 1	0.545 ppb	2.971 ppb	270.937 ppb	0.221 ppb	93.020 %	-0.002 ppb	0.086 ppb	99.925 %	0.063 ppb
Concentration per Run 2	0.387 ppb	3.345 ppb	250.389 ppb	0.288 ppb	99.041 %	0.000 ppb	0.090 ppb	105.547 %	0.062 ppb
Concentration per Run 3	0.635 ppb	3.344 ppb	252.581 ppb	0.272 ppb	102.039 %	-0.002 ppb	0.088 ppb	107.484 %	0.059 ppb
Concentration RSD	24.1 %	6.7 %	4.4 %	13.3 %	4.7 %	86.1 %	2.0 %	3.8 %	3.2 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	40.911 ppb	108.628 %	105.354 %	0.061 ppb	0.001 ppb
Concentration per Run 1	43.226 ppb	101.354 %	100.097 %	0.047 ppb	0.003 ppb
Concentration per Run 2	39.859 ppb	112.243 %	107.126 %	0.068 ppb	0.001 ppb
Concentration per Run 3	39.647 ppb	112.286 %	108.837 %	0.069 ppb	-0.001 ppb
Concentration RSD	4.9 %	5.8 %	4.4 %	20.2 %	209.6 %

Alpha ICPMSQ Data with SRD

3/5/2024 5:01:37 AM

Analysis index:	138	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	I2410579-05 6020SL	Rack	2		
Analysis started at:	3/4/2024 5:26:32 PM	Vial	36		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	77.133 %	101.055 %	0.013 ppb	59,484.235 ppb	12,728.262 ppb	0.127 ppb	1,314.240 ppb	19,902.738 ppb	101.127 %
Concentration per Run 1	79.307 %	92.612 %	0.013 ppb	66,219.007 ppb	14,307.762 ppb	0.648 ppb	1,456.332 ppb	22,182.577 ppb	103.354 %
Concentration per Run 2	76.273 %	106.267 %	0.015 ppb	55,638.026 ppb	11,682.406 ppb	-0.207 ppb	1,243.171 ppb	18,686.559 ppb	99.885 %
Concentration per Run 3	75.820 %	104.288 %	0.011 ppb	56,595.671 ppb	12,194.617 ppb	-0.061 ppb	1,243.217 ppb	18,839.078 ppb	100.140 %
Concentration RSD	2.5 %	7.3 %	15.2 %	9.8 %	10.9 %	360.7 %	9.4 %	9.9 %	1.9 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.112 ppb	1.173 ppb	0.574 ppb	3.222 ppb	0.029 ppb	0.213 ppb	0.100 ppb	0.591 ppb	95.684 %
Concentration per Run 1	0.099 ppb	1.241 ppb	0.793 ppb	3.191 ppb	0.022 ppb	0.240 ppb	0.156 ppb	0.613 ppb	86.697 %
Concentration per Run 2	0.134 ppb	1.190 ppb	0.563 ppb	2.932 ppb	0.044 ppb	0.186 ppb	0.080 ppb	0.592 ppb	98.125 %
Concentration per Run 3	0.105 ppb	1.090 ppb	0.365 ppb	3.544 ppb	0.022 ppb	0.212 ppb	0.065 ppb	0.569 ppb	102.231 %
Concentration RSD	16.8 %	6.6 %	37.3 %	9.5 %	43.2 %	12.6 %	49.0 %	3.7 %	8.4 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.068 ppb	0.278 ppb	102.683 ppb	0.054 ppb	95.989 %	-0.001 ppb	0.013 ppb	101.819 %	0.032 ppb
Concentration per Run 1	0.113 ppb	0.256 ppb	114.549 ppb	0.052 ppb	86.917 %	0.000 ppb	0.022 ppb	90.832 %	0.040 ppb
Concentration per Run 2	0.052 ppb	0.269 ppb	98.088 ppb	0.033 ppb	99.549 %	-0.001 ppb	0.007 ppb	104.022 %	0.029 ppb
Concentration per Run 3	0.041 ppb	0.309 ppb	95.411 ppb	0.077 ppb	101.500 %	0.000 ppb	0.010 ppb	110.604 %	0.029 ppb
Concentration RSD	56.5 %	9.9 %	10.1 %	40.4 %	8.2 %	57.8 %	61.0 %	9.9 %	19.4 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	63.754 ppb	105.322 %	105.066 %	0.034 ppb	-0.001 ppb
Concentration per Run 1	73.785 ppb	92.775 %	92.228 %	0.022 ppb	0.004 ppb
Concentration per Run 2	61.381 ppb	107.376 %	108.322 %	0.039 ppb	-0.001 ppb
Concentration per Run 3	56.096 ppb	115.815 %	114.649 %	0.041 ppb	-0.006 ppb
Concentration RSD	14.2 %	11.1 %	11.0 %	30.5 %	422.8 %

Alpha ICPMSQ Data with SRD

3/5/2024 5:01:37 AM

Analysis index:	139	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	I2410579-06 6020SL	Rack	2		
Analysis started at:	3/4/2024 5:31:12 PM	Vial	37		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	74.314 %	95.778 %	0.012 ppb	38,490.426 ppb	27,430.131 ppb	-0.419 ppb	48,513.533 ppb	116,801.255 ppb	86.595 %
Concentration per Run 1	76.456 %	86.082 %	0.012 ppb	42,342.873 ppb	29,446.375 ppb	0.066 ppb	52,846.114 ppb	127,064.893 ppb	88.209 %
Concentration per Run 2	73.733 %	98.351 %	0.017 ppb	38,355.965 ppb	28,534.735 ppb	-0.716 ppb	49,266.274 ppb	118,388.537 ppb	87.200 %
Concentration per Run 3	72.755 %	102.902 %	0.007 ppb	34,772.440 ppb	24,309.282 ppb	-0.606 ppb	43,428.213 ppb	104,950.335 ppb	84.375 %
Concentration RSD	2.6 %	9.1 %	44.0 %	9.8 %	10.0 %	101.1 %	9.8 %	9.5 %	2.3 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.333 ppb	0.248 ppb	4,821.153 ppb	5.675 ppb	0.558 ppb	0.716 ppb	1.366 ppb	0.669 ppb	91.237 %
Concentration per Run 1	0.363 ppb	0.284 ppb	5,348.306 ppb	4.529 ppb	0.638 ppb	0.876 ppb	1.535 ppb	0.806 ppb	81.289 %
Concentration per Run 2	0.318 ppb	0.234 ppb	4,671.972 ppb	6.603 ppb	0.480 ppb	0.638 ppb	1.272 ppb	0.576 ppb	99.016 %
Concentration per Run 3	0.319 ppb	0.225 ppb	4,443.182 ppb	5.894 ppb	0.557 ppb	0.634 ppb	1.290 ppb	0.624 ppb	93.406 %
Concentration RSD	7.7 %	12.9 %	9.8 %	18.6 %	14.2 %	19.3 %	10.7 %	18.1 %	9.9 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.358 ppb	0.444 ppb	252.789 ppb	0.186 ppb	88.775 %	0.000 ppb	0.077 ppb	93.208 %	0.063 ppb
Concentration per Run 1	0.344 ppb	0.527 ppb	273.890 ppb	0.209 ppb	80.497 %	-0.001 ppb	0.096 ppb	86.174 %	0.062 ppb
Concentration per Run 2	0.390 ppb	0.483 ppb	247.013 ppb	0.169 ppb	95.211 %	-0.001 ppb	0.054 ppb	102.150 %	0.055 ppb
Concentration per Run 3	0.339 ppb	0.323 ppb	237.462 ppb	0.179 ppb	90.617 %	0.001 ppb	0.082 ppb	91.298 %	0.071 ppb
Concentration RSD	7.9 %	24.1 %	7.5 %	11.0 %	8.5 %	2,333.3 %	27.8 %	8.8 %	13.2 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	97.706 ppb	97.330 %	99.022 %	0.169 ppb	0.002 ppb
Concentration per Run 1	106.792 ppb	87.541 %	88.503 %	0.166 ppb	0.003 ppb
Concentration per Run 2	94.068 ppb	103.833 %	106.582 %	0.170 ppb	0.002 ppb
Concentration per Run 3	92.260 ppb	100.616 %	101.981 %	0.173 ppb	0.002 ppb
Concentration RSD	8.1 %	8.9 %	9.5 %	2.2 %	12.4 %

Alpha ICPMSQ Data with SRD

3/5/2024 5:01:37 AM

Analysis index:	140	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	xl2410579-07 6020SL	Rack	2		
Analysis started at:	3/4/2024 5:35:52 PM	Vial	38		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	116.159 %	155.938 %	-0.005 ppb	9,397.606 ppb	5,030.410 ppb	-1.809 ppb	4,999.519 ppb	47,436.633 ppb	129.203 %
Concentration per Run 1	117.774 %	175.727 %	-0.003 ppb	7,841.060 ppb	4,166.979 ppb	-1.911 ppb	4,323.576 ppb	40,838.909 ppb	130.968 %
Concentration per Run 2	116.561 %	151.386 %	-0.005 ppb	10,285.619 ppb	5,609.280 ppb	-1.537 ppb	5,577.903 ppb	53,313.072 ppb	129.578 %
Concentration per Run 3	114.142 %	140.700 %	-0.006 ppb	10,066.139 ppb	5,314.970 ppb	-1.980 ppb	5,097.076 ppb	48,157.918 ppb	127.064 %
Concentration RSD	1.6 %	11.5 %	31.8 %	14.4 %	15.1 %	13.2 %	12.7 %	13.2 %	1.5 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.099 ppb	0.143 ppb	43.940 ppb	2.986 ppb	0.132 ppb	0.115 ppb	0.651 ppb	0.437 ppb	151.096 %
Concentration per Run 1	0.077 ppb	0.105 ppb	38.464 ppb	2.059 ppb	0.126 ppb	0.137 ppb	0.594 ppb	0.501 ppb	158.946 %
Concentration per Run 2	0.122 ppb	0.164 ppb	47.489 ppb	3.073 ppb	0.128 ppb	0.084 ppb	0.687 ppb	0.425 ppb	152.004 %
Concentration per Run 3	0.097 ppb	0.159 ppb	45.869 ppb	3.825 ppb	0.141 ppb	0.123 ppb	0.671 ppb	0.386 ppb	142.339 %
Concentration RSD	22.8 %	23.2 %	11.0 %	29.7 %	6.4 %	23.7 %	7.6 %	13.4 %	5.5 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.075 ppb	0.150 ppb	192.711 ppb	0.089 ppb	150.598 %	-0.001 ppb	0.006 ppb	162.070 %	0.027 ppb
Concentration per Run 1	0.038 ppb	0.194 ppb	169.075 ppb	0.055 ppb	162.327 %	-0.002 ppb	0.007 ppb	174.597 %	0.015 ppb
Concentration per Run 2	0.096 ppb	0.154 ppb	212.260 ppb	0.111 ppb	145.264 %	-0.001 ppb	0.002 ppb	157.734 %	0.036 ppb
Concentration per Run 3	0.091 ppb	0.103 ppb	196.797 ppb	0.100 ppb	144.202 %	-0.001 ppb	0.009 ppb	153.878 %	0.030 ppb
Concentration RSD	43.3 %	30.4 %	11.4 %	33.7 %	6.8 %	64.1 %	61.6 %	6.8 %	40.0 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	33.158 ppb	163.781 %	164.838 %	0.142 ppb	-0.006 ppb
Concentration per Run 1	29.228 ppb	173.650 %	174.036 %	0.116 ppb	-0.008 ppb
Concentration per Run 2	36.464 ppb	159.694 %	164.603 %	0.154 ppb	-0.005 ppb
Concentration per Run 3	33.784 ppb	157.998 %	155.875 %	0.156 ppb	-0.006 ppb
Concentration RSD	11.0 %	5.2 %	5.5 %	15.8 %	23.6 %

Alpha ICPMSQ Data with SRD

3/5/2024 5:01:37 AM

Analysis index: 141
Analysis label: xl2410579-09 6020SL
Analysis started at: 3/4/2024 5:40:31 PM
User name ALPHALAB\Metals-Instrument
Rack 2
Vial 39
Comment <Comment>

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	75.226 %	239.057 %	-0.005 ppb	-15.993 ppb	1.017 ppb	-3.304 ppb	-25.614 ppb	10.925 ppb	14.346 %
Concentration per Run 1	37.234 %	323.363 %	0.002 ppb	-20.820 ppb	0.632 ppb	-3.318 ppb	-28.361 ppb	7.662 ppb	7.597 %
Concentration per Run 2	62.304 %	124.276 %	-0.008 ppb	-8.488 ppb	0.831 ppb	-3.281 ppb	-22.109 ppb	10.291 ppb	11.706 %
Concentration per Run 3	126.142 %	269.532 %	-0.010 ppb	-18.671 ppb	1.588 ppb	-3.313 ppb	-26.373 ppb	14.822 ppb	23.735 %
Concentration RSD	60.9 %	43.1 %	124.5 %	41.2 %	49.6 %	0.6 %	12.5 %	33.2 %	58.5 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.038 ppb	-0.028 ppb	0.026 ppb	-0.402 ppb	-0.002 ppb	-0.051 ppb	-0.039 ppb	-0.089 ppb	229.330 %
Concentration per Run 1	-0.043 ppb	-0.032 ppb	-0.014 ppb	-0.409 ppb	-0.002 ppb	-0.062 ppb	-0.046 ppb	-0.096 ppb	305.420 %
Concentration per Run 2	-0.032 ppb	-0.024 ppb	0.078 ppb	-0.467 ppb	-0.002 ppb	-0.040 ppb	-0.035 ppb	-0.089 ppb	120.334 %
Concentration per Run 3	-0.040 ppb	-0.028 ppb	0.015 ppb	-0.331 ppb	-0.002 ppb	-0.050 ppb	-0.037 ppb	-0.082 ppb	262.235 %
Concentration RSD	14.9 %	14.2 %	178.4 %	16.9 %	18.4 %	22.1 %	14.3 %	8.1 %	42.2 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	-0.129 ppb	0.025 ppb	0.041 ppb	0.003 ppb	192.480 %	0.003 ppb	0.002 ppb	67.119 %	0.013 ppb
Concentration per Run 1	-0.139 ppb	-0.007 ppb	0.034 ppb	0.005 ppb	249.797 %	-0.002 ppb	0.000 ppb	98.605 %	0.000 ppb
Concentration per Run 2	-0.092 ppb	0.056 ppb	0.030 ppb	0.002 ppb	85.940 %	0.010 ppb	0.005 ppb	24.824 %	0.025 ppb
Concentration per Run 3	-0.157 ppb	0.026 ppb	0.060 ppb	0.003 ppb	241.703 %	0.001 ppb	0.001 ppb	77.928 %	0.014 ppb
Concentration RSD	25.9 %	126.4 %	40.6 %	37.6 %	48.0 %	222.8 %	167.3 %	56.7 %	100.6 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	0.009 ppb	152.009 %	156.342 %	-0.003 ppb	-0.008 ppb
Concentration per Run 1	0.006 ppb	185.930 %	189.098 %	-0.005 ppb	-0.016 ppb
Concentration per Run 2	-0.004 ppb	64.294 %	68.354 %	0.001 ppb	0.004 ppb
Concentration per Run 3	0.026 ppb	205.802 %	211.574 %	-0.004 ppb	-0.013 ppb
Concentration RSD	161.7 %	50.4 %	49.3 %	117.8 %	131.6 %

Alpha ICPMSQ Data with SRD

3/5/2024 5:01:37 AM

Analysis index: 142
Analysis label: xtube popped off
Analysis started at: 3/4/2024 5:45:11 PM
User name ALPHALAB\Metals-Instrument
Rack 0
Vial 9
Comment <Comment>

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	191.509 %	223.754 %	-0.010 ppb	-14.545 ppb	-0.096 ppb	-3.203 ppb	-23.304 ppb	1.394 ppb	78.535 %
Concentration per Run 1	125.358 %	366.902 %	-0.010 ppb	-22.813 ppb	-0.367 ppb	-3.257 ppb	-28.505 ppb	0.100 ppb	56.907 %
Concentration per Run 2	225.456 %	102.309 %	-0.010 ppb	-2.846 ppb	0.187 ppb	-3.119 ppb	-12.715 ppb	2.428 ppb	90.069 %
Concentration per Run 3	223.713 %	202.050 %	-0.011 ppb	-17.975 ppb	-0.108 ppb	-3.232 ppb	-28.692 ppb	1.655 ppb	88.628 %
Recovery Percentage 1			-0.017 %	-0.242 %	-0.002 %	-5.338 %	-0.388 %	0.023 %	
Concentration RSD	29.9 %	59.7 %	5.9 %	71.6 %	289.8 %	2.3 %	39.4 %	85.0 %	23.9 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.035 ppb	-0.019 ppb	-0.013 ppb	-0.366 ppb	-0.002 ppb	-0.052 ppb	-0.035 ppb	-0.086 ppb	208.517 %
Concentration per Run 1	-0.039 ppb	-0.033 ppb	-0.034 ppb	-0.253 ppb	-0.002 ppb	-0.047 ppb	-0.050 ppb	-0.093 ppb	324.424 %
Concentration per Run 2	-0.029 ppb	-0.006 ppb	0.013 ppb	-0.467 ppb	-0.002 ppb	-0.062 ppb	-0.030 ppb	-0.084 ppb	95.069 %
Concentration per Run 3	-0.036 ppb	-0.017 ppb	-0.019 ppb	-0.380 ppb	-0.001 ppb	-0.048 ppb	-0.024 ppb	-0.082 ppb	206.057 %
Recovery Percentage 1	-0.058 %	-0.031 %	-0.022 %	-0.006 %	-0.003 %	-0.087 %	-0.058 %	-0.144 %	
Concentration RSD	14.4 %	69.6 %	178.7 %	29.3 %	23.3 %	15.3 %	38.5 %	6.7 %	55.0 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	-0.121 ppb	-0.028 ppb	0.004 ppb	0.004 ppb	203.588 %	0.000 ppb	0.001 ppb	142.540 %	0.001 ppb
Concentration per Run 1	-0.154 ppb	-0.038 ppb	0.007 ppb	0.007 ppb	332.340 %	-0.003 ppb	0.000 ppb	240.958 %	-0.006 ppb
Concentration per Run 2	-0.064 ppb	-0.023 ppb	0.006 ppb	0.007 ppb	88.393 %	0.001 ppb	0.001 ppb	60.585 %	0.005 ppb
Concentration per Run 3	-0.144 ppb	-0.023 ppb	-0.001 ppb	-0.002 ppb	190.032 %	0.000 ppb	0.000 ppb	126.078 %	0.003 ppb
Recovery Percentage 1	-0.201 %	-0.047 %	0.006 %	0.007 %		-0.001 %	0.001 %		0.001 %
Concentration RSD	40.8 %	31.9 %	120.4 %	122.3 %	60.2 %	393.3 %	106.2 %	64.1 %	1,071.6 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	-0.012 ppb	212.477 %	216.770 %	-0.005 ppb	-0.013 ppb
Concentration per Run 1	-0.014 ppb	347.883 %	347.379 %	-0.006 ppb	-0.019 ppb
Concentration per Run 2	-0.016 ppb	92.201 %	99.793 %	-0.005 ppb	-0.006 ppb
Concentration per Run 3	-0.006 ppb	197.347 %	203.138 %	-0.005 ppb	-0.014 ppb
Recovery Percentage 1	-0.020 %			-0.009 %	-0.021 %
Concentration RSD	43.3 %	60.5 %	57.4 %	9.8 %	52.0 %

Alpha ICPMSQ Data with SRD

3/5/2024 5:01:37 AM

Analysis index: 143
Analysis label: xtube popped off
Analysis started at: 3/4/2024 5:49:53 PM
User name ALPHALAB\Metals-Instrument
Rack 0
Vial 10
Comment <Comment>

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	137.994 %	279.956 %	-0.009 ppb	-21.625 ppb	-0.448 ppb	-3.275 ppb	-28.599 ppb	-2.953 ppb	106.372 %
Concentration per Run 1	165.814 %	368.089 %	-0.009 ppb	-24.469 ppb	-0.423 ppb	-3.300 ppb	-28.705 ppb	-3.837 ppb	125.725 %
Concentration per Run 2	149.837 %	233.713 %	-0.012 ppb	-19.778 ppb	-0.418 ppb	-3.277 ppb	-27.777 ppb	-2.505 ppb	120.623 %
Concentration per Run 3	98.332 %	238.068 %	-0.008 ppb	-20.629 ppb	-0.503 ppb	-3.247 ppb	-29.316 ppb	-2.515 ppb	72.768 %
Recovery Percentage 1			-1.877 %	-21.625 %	-0.640 %	-32.746 %	-28.599 %	-2.953 %	
Concentration RSD	25.6 %	27.3 %	21.8 %	11.6 %	10.6 %	0.8 %	2.7 %	26.0 %	27.5 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.041 ppb	-0.030 ppb	-0.040 ppb	-0.397 ppb	-0.002 ppb	-0.055 ppb	-0.050 ppb	-0.088 ppb	265.120 %
Concentration per Run 1	-0.043 ppb	-0.035 ppb	-0.041 ppb	-0.415 ppb	-0.002 ppb	-0.050 ppb	-0.050 ppb	-0.088 ppb	339.276 %
Concentration per Run 2	-0.040 ppb	-0.027 ppb	-0.043 ppb	-0.310 ppb	-0.002 ppb	-0.055 ppb	-0.053 ppb	-0.082 ppb	226.370 %
Concentration per Run 3	-0.040 ppb	-0.027 ppb	-0.038 ppb	-0.467 ppb	-0.002 ppb	-0.060 ppb	-0.047 ppb	-0.094 ppb	229.715 %
Recovery Percentage 1	-0.815 %	-2.957 %	-4.049 %	-0.795 %	-0.432 %	-2.749 %	-4.990 %	-1.758 %	
Concentration RSD	4.1 %	14.8 %	6.3 %	20.1 %	0.0 %	9.7 %	6.3 %	6.8 %	24.2 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	-0.149 ppb	-0.020 ppb	-0.004 ppb	0.002 ppb	279.075 %	-0.002 ppb	0.000 ppb	231.245 %	-0.003 ppb
Concentration per Run 1	-0.152 ppb	0.007 ppb	-0.004 ppb	-0.006 ppb	369.284 %	-0.002 ppb	0.000 ppb	314.704 %	-0.005 ppb
Concentration per Run 2	-0.131 ppb	-0.033 ppb	-0.003 ppb	0.004 ppb	233.933 %	-0.002 ppb	0.000 ppb	188.917 %	-0.002 ppb
Concentration per Run 3	-0.163 ppb	-0.033 ppb	-0.005 ppb	0.009 ppb	234.007 %	-0.002 ppb	0.000 ppb	190.113 %	-0.002 ppb
Recovery Percentage 1	-29.762 %	-0.393 %	-0.043 %	0.119 %		-0.477 %	0.032 %		-0.078 %
Concentration RSD	10.9 %	119.1 %	29.1 %	307.5 %	28.0 %	25.0 %	616.2 %	31.3 %	64.2 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	-0.010 ppb	292.239 %	292.178 %	-0.005 ppb	-0.018 ppb
Concentration per Run 1	-0.008 ppb	379.963 %	358.803 %	-0.006 ppb	-0.020 ppb
Concentration per Run 2	-0.014 ppb	250.117 %	259.694 %	-0.005 ppb	-0.017 ppb
Concentration per Run 3	-0.009 ppb	246.638 %	258.039 %	-0.005 ppb	-0.016 ppb
Recovery Percentage 1	-2.069 %			-0.550 %	-1.760 %
Concentration RSD	28.6 %	26.0 %	19.7 %	6.1 %	12.0 %

Alpha ICPMSQ Data with SRD

3/5/2024 5:01:37 AM

Analysis index:	144	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	CCV	Rack	0		
Analysis started at:	3/4/2024 6:14:41 PM	Vial	9		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	89.685 %	100.660 %	60.178 ppb	6,313.229 ppb	6,331.573 ppb	64.268 ppb	6,316.373 ppb	6,176.869 ppb	136.148 %
Concentration per Run 1	91.192 %	104.881 %	60.252 ppb	6,149.305 ppb	6,157.276 ppb	61.782 ppb	6,227.454 ppb	6,042.939 ppb	137.919 %
Concentration per Run 2	89.495 %	100.330 %	60.000 ppb	6,203.451 ppb	6,250.730 ppb	65.784 ppb	6,217.257 ppb	6,131.406 ppb	136.154 %
Concentration per Run 3	88.368 %	96.768 %	60.283 ppb	6,586.931 ppb	6,586.713 ppb	65.239 ppb	6,504.407 ppb	6,356.263 ppb	134.371 %
Recovery Percentage 1			100.297 %	105.220 %	105.526 %	107.114 %	105.273 %	102.948 %	
Concentration RSD	1.6 %	4.0 %	0.3 %	3.8 %	3.6 %	3.4 %	2.6 %	2.6 %	1.3 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	62.277 ppb	62.358 ppb	63.784 ppb	6,453.861 ppb	64.757 ppb	65.282 ppb	65.402 ppb	65.382 ppb	98.347 %
Concentration per Run 1	59.106 ppb	59.750 ppb	60.387 ppb	6,218.516 ppb	63.105 ppb	64.467 ppb	63.781 ppb	59.882 ppb	101.161 %
Concentration per Run 2	62.034 ppb	62.155 ppb	64.479 ppb	6,367.799 ppb	63.501 ppb	63.056 ppb	64.748 ppb	64.451 ppb	99.172 %
Concentration per Run 3	65.691 ppb	65.170 ppb	66.487 ppb	6,775.267 ppb	67.665 ppb	68.321 ppb	67.677 ppb	71.813 ppb	94.708 %
Recovery Percentage 1	103.795 %	103.931 %	106.307 %	107.564 %	107.928 %	108.803 %	109.004 %	108.970 %	
Concentration RSD	5.3 %	4.4 %	4.9 %	4.5 %	3.9 %	4.2 %	3.1 %	9.2 %	3.4 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	62.869 ppb	61.041 ppb	58.779 ppb	58.427 ppb	108.284 %	56.983 ppb	63.609 ppb	137.021 %	57.066 ppb
Concentration per Run 1	60.636 ppb	55.685 ppb	55.919 ppb	53.358 ppb	116.514 %	47.928 ppb	62.135 ppb	183.271 %	52.439 ppb
Concentration per Run 2	62.435 ppb	61.964 ppb	57.142 ppb	57.262 ppb	109.324 %	57.568 ppb	62.179 ppb	122.334 %	56.724 ppb
Concentration per Run 3	65.536 ppb	65.475 ppb	63.277 ppb	64.660 ppb	99.013 %	65.452 ppb	66.513 ppb	105.457 %	62.036 ppb
Recovery Percentage 1	104.782 %	101.735 %	97.965 %	97.378 %		94.971 %	106.015 %		95.110 %
Concentration RSD	3.9 %	8.1 %	6.7 %	9.8 %	8.1 %	15.4 %	4.0 %	29.9 %	8.4 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	58.890 ppb	130.439 %	124.946 %	58.053 ppb	58.309 ppb
Concentration per Run 1	53.525 ppb	165.096 %	152.485 %	44.715 ppb	46.070 ppb
Concentration per Run 2	57.175 ppb	123.039 %	120.255 %	58.652 ppb	59.472 ppb
Concentration per Run 3	65.971 ppb	103.183 %	102.099 %	70.792 ppb	69.384 ppb
Recovery Percentage 1	98.151 %			96.755 %	97.181 %
Concentration RSD	10.9 %	24.2 %	20.4 %	22.5 %	20.1 %

Alpha ICPMSQ Data with SRD

3/5/2024 5:01:37 AM

Analysis index: 145
Analysis label: CCB
Analysis started at: 3/4/2024 6:19:22 PM
User name ALPHALAB\Metals-Instrument
Rack 0
Vial 10
Comment <Comment>

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	81.917 %	96.900 %	0.015 ppb	-9.365 ppb	0.014 ppb	-3.008 ppb	0.502 ppb	3.364 ppb	100.156 %
Concentration per Run 1	83.168 %	100.528 %	0.019 ppb	-10.836 ppb	0.197 ppb	-3.192 ppb	5.966 ppb	4.780 ppb	100.665 %
Concentration per Run 2	81.909 %	97.164 %	0.012 ppb	-10.188 ppb	0.016 ppb	-2.806 ppb	-6.261 ppb	1.356 ppb	99.619 %
Concentration per Run 3	80.673 %	93.008 %	0.013 ppb	-7.072 ppb	-0.171 ppb	-3.025 ppb	1.800 ppb	3.956 ppb	100.185 %
Recovery Percentage 1			2.911 %	-9.365 %	0.020 %	-30.077 %	0.502 %	3.364 %	
Concentration RSD	1.5 %	3.9 %	26.5 %	21.5 %	1,299.0 %	6.4 %	1,239.1 %	53.1 %	0.5 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.017 ppb	-0.005 ppb	0.010 ppb	11.125 ppb	0.000 ppb	0.011 ppb	0.063 ppb	0.287 ppb	95.408 %
Concentration per Run 1	-0.036 ppb	0.009 ppb	0.013 ppb	12.696 ppb	0.001 ppb	0.026 ppb	0.084 ppb	0.391 ppb	95.357 %
Concentration per Run 2	-0.015 ppb	-0.019 ppb	0.001 ppb	10.355 ppb	0.001 ppb	0.038 ppb	0.058 ppb	0.213 ppb	95.660 %
Concentration per Run 3	-0.001 ppb	-0.005 ppb	0.014 ppb	10.323 ppb	-0.002 ppb	-0.032 ppb	0.047 ppb	0.258 ppb	95.206 %
Recovery Percentage 1	-0.346 %	-0.519 %	0.958 %	22.249 %	0.023 %	0.532 %	6.302 %	5.748 %	
Concentration RSD	102.0 %	272.3 %	75.9 %	12.2 %	1,746.2 %	350.9 %	30.0 %	32.3 %	0.2 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.113 ppb	0.322 ppb	0.005 ppb	0.940 ppb	101.052 %	0.001 ppb	0.005 ppb	104.292 %	0.074 ppb
Concentration per Run 1	0.156 ppb	0.363 ppb	0.008 ppb	0.994 ppb	100.136 %	0.003 ppb	0.008 ppb	103.646 %	0.071 ppb
Concentration per Run 2	0.073 ppb	0.248 ppb	0.006 ppb	0.844 ppb	101.264 %	0.002 ppb	0.003 ppb	102.352 %	0.070 ppb
Concentration per Run 3	0.110 ppb	0.355 ppb	0.001 ppb	0.983 ppb	101.755 %	0.000 ppb	0.005 ppb	106.877 %	0.082 ppb
Recovery Percentage 1	22.608 %	6.439 %	0.050 %	47.017 %		0.351 %	2.658 %		1.859 %
Concentration RSD	36.5 %	20.0 %	76.5 %	8.9 %	0.8 %	101.1 %	47.7 %	2.2 %	8.6 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	0.106 ppb	105.432 %	105.154 %	0.443 ppb	0.009 ppb
Concentration per Run 1	0.115 ppb	101.295 %	102.314 %	0.381 ppb	0.015 ppb
Concentration per Run 2	0.099 ppb	105.547 %	104.404 %	0.524 ppb	0.009 ppb
Concentration per Run 3	0.103 ppb	109.453 %	108.745 %	0.425 ppb	0.004 ppb
Recovery Percentage 1	21.172 %			44.338 %	0.922 %
Concentration RSD	8.0 %	3.9 %	3.1 %	16.5 %	55.8 %

Alpha ICPMSQ Data with SRD

3/5/2024 5:01:37 AM

Analysis index: 146
Analysis label: I2410579-07 6020SL
Analysis started at: 3/4/2024 6:26:20 PM
User name ALPHALAB\Metals-Instrument
Rack 2
Vial 38
Comment <Comment>

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	84.150 %	100.462 %	0.022 ppb	22,499.172 ppb	11,875.541 ppb	0.386 ppb	11,959.242 ppb	112,943.464 ppb	108.544 %
Concentration per Run 1	84.854 %	91.623 %	0.024 ppb	24,469.923 ppb	12,937.693 ppb	0.426 ppb	12,866.625 ppb	122,451.308 ppb	108.441 %
Concentration per Run 2	83.915 %	110.224 %	0.023 ppb	20,373.275 ppb	10,690.796 ppb	0.423 ppb	10,944.291 ppb	103,294.507 ppb	108.734 %
Concentration per Run 3	83.680 %	99.538 %	0.019 ppb	22,654.318 ppb	11,998.135 ppb	0.310 ppb	12,066.808 ppb	113,084.576 ppb	108.456 %
Concentration RSD	0.7 %	9.3 %	13.1 %	9.1 %	9.5 %	17.1 %	8.1 %	8.5 %	0.2 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.242 ppb	0.366 ppb	104.920 ppb	12.117 ppb	0.349 ppb	0.365 ppb	1.749 ppb	1.189 ppb	96.190 %
Concentration per Run 1	0.199 ppb	0.375 ppb	110.912 ppb	14.747 ppb	0.324 ppb	0.367 ppb	1.958 ppb	1.302 ppb	93.514 %
Concentration per Run 2	0.211 ppb	0.352 ppb	98.011 ppb	10.996 ppb	0.357 ppb	0.368 ppb	1.675 ppb	1.032 ppb	96.642 %
Concentration per Run 3	0.318 ppb	0.371 ppb	105.836 ppb	10.608 ppb	0.366 ppb	0.360 ppb	1.614 ppb	1.233 ppb	98.415 %
Concentration RSD	26.9 %	3.4 %	6.2 %	18.9 %	6.3 %	1.2 %	10.5 %	11.8 %	2.6 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.309 ppb	0.373 ppb	458.100 ppb	0.281 ppb	97.859 %	0.000 ppb	0.008 ppb	104.090 %	0.080 ppb
Concentration per Run 1	0.270 ppb	0.371 ppb	476.062 ppb	0.254 ppb	97.047 %	0.001 ppb	0.013 ppb	104.309 %	0.082 ppb
Concentration per Run 2	0.351 ppb	0.357 ppb	438.195 ppb	0.317 ppb	98.064 %	-0.001 ppb	0.008 ppb	102.627 %	0.075 ppb
Concentration per Run 3	0.307 ppb	0.390 ppb	460.044 ppb	0.272 ppb	98.466 %	-0.001 ppb	0.003 ppb	105.334 %	0.084 ppb
Concentration RSD	13.0 %	4.4 %	4.1 %	11.7 %	0.7 %	465.9 %	60.0 %	1.3 %	5.9 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	77.592 ppb	107.053 %	104.816 %	0.441 ppb	0.013 ppb
Concentration per Run 1	80.105 ppb	107.904 %	105.171 %	0.401 ppb	0.015 ppb
Concentration per Run 2	75.808 ppb	105.881 %	103.854 %	0.459 ppb	0.012 ppb
Concentration per Run 3	76.865 ppb	107.374 %	105.423 %	0.463 ppb	0.012 ppb
Concentration RSD	2.9 %	1.0 %	0.8 %	7.9 %	14.5 %

Alpha ICPMSQ Data with SRD

3/5/2024 5:01:37 AM

Analysis index: 147
Analysis label: I2410579-09 6020SL
Analysis started at: 3/4/2024 6:31:00 PM
User name ALPHALAB\Metals-Instrument
Rack 2
Vial 39
Comment <Comment>

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	80.500 %	97.427 %	0.016 ppb	35,586.404 ppb	24,301.188 ppb	-0.862 ppb	44,698.473 ppb	105,858.744 ppb	102.316 %
Concentration per Run 1	82.897 %	102.111 %	0.015 ppb	35,323.681 ppb	24,196.819 ppb	-1.252 ppb	45,367.603 ppb	105,431.825 ppb	104.768 %
Concentration per Run 2	80.015 %	89.050 %	0.014 ppb	36,442.251 ppb	24,802.455 ppb	-0.518 ppb	43,257.216 ppb	104,067.554 ppb	100.364 %
Concentration per Run 3	78.589 %	101.121 %	0.019 ppb	34,993.280 ppb	23,904.290 ppb	-0.816 ppb	45,470.600 ppb	108,076.853 ppb	101.817 %
Concentration RSD	2.7 %	7.5 %	15.3 %	2.1 %	1.9 %	42.8 %	2.8 %	1.9 %	2.2 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.308 ppb	0.321 ppb	4,578.009 ppb	12.813 ppb	0.563 ppb	0.731 ppb	1.435 ppb	1.317 ppb	92.388 %
Concentration per Run 1	0.302 ppb	0.299 ppb	4,641.972 ppb	15.614 ppb	0.593 ppb	0.821 ppb	1.349 ppb	1.676 ppb	92.243 %
Concentration per Run 2	0.328 ppb	0.324 ppb	4,452.084 ppb	12.420 ppb	0.550 ppb	0.704 ppb	1.478 ppb	1.235 ppb	88.971 %
Concentration per Run 3	0.295 ppb	0.339 ppb	4,639.972 ppb	10.404 ppb	0.546 ppb	0.669 ppb	1.477 ppb	1.039 ppb	95.952 %
Concentration RSD	5.6 %	6.3 %	2.4 %	20.5 %	4.6 %	10.9 %	5.2 %	24.8 %	3.8 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.351 ppb	0.301 ppb	225.931 ppb	0.209 ppb	94.809 %	0.000 ppb	0.060 ppb	100.167 %	0.049 ppb
Concentration per Run 1	0.409 ppb	0.023 ppb	231.682 ppb	0.200 ppb	94.724 %	0.000 ppb	0.073 ppb	100.596 %	0.046 ppb
Concentration per Run 2	0.266 ppb	0.483 ppb	219.786 ppb	0.205 ppb	93.129 %	-0.001 ppb	0.062 ppb	97.536 %	0.058 ppb
Concentration per Run 3	0.378 ppb	0.398 ppb	226.324 ppb	0.224 ppb	96.574 %	0.000 ppb	0.045 ppb	102.367 %	0.045 ppb
Concentration RSD	21.5 %	81.4 %	2.6 %	6.0 %	1.8 %	42.0 %	23.7 %	2.4 %	14.6 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	84.009 ppb	104.487 %	101.999 %	0.196 ppb	0.004 ppb
Concentration per Run 1	85.491 ppb	104.420 %	103.132 %	0.165 ppb	0.005 ppb
Concentration per Run 2	83.121 ppb	102.160 %	98.683 %	0.213 ppb	0.004 ppb
Concentration per Run 3	83.416 ppb	106.880 %	104.182 %	0.209 ppb	0.001 ppb
Concentration RSD	1.5 %	2.3 %	2.9 %	13.8 %	58.4 %

Alpha ICPMSQ Data with SRD

3/5/2024 5:01:37 AM

Analysis index:	148	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	LDR Check (ICSA 10x)	Rack	4		
Analysis started at:	3/4/2024 6:35:39 PM	Vial	1		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	63.381 %	93.536 %	0.040 ppb	250,951.993 ppb	101,512.580 ppb	95,108.168 ppb	97,925.607 ppb	272,506.394 ppb	106.116 %
Concentration per Run 1	65.645 %	91.623 %	0.048 ppb	254,341.204 ppb	104,011.363 ppb	97,404.506 ppb	98,999.984 ppb	278,113.778 ppb	108.137 %
Concentration per Run 2	63.425 %	86.873 %	0.042 ppb	264,466.810 ppb	106,606.447 ppb	98,608.235 ppb	99,801.573 ppb	278,955.686 ppb	105.996 %
Concentration per Run 3	61.074 %	102.111 %	0.031 ppb	234,047.963 ppb	93,919.929 ppb	89,311.762 ppb	94,975.266 ppb	260,449.718 ppb	104.215 %
Concentration RSD	3.6 %	8.3 %	22.4 %	6.2 %	6.6 %	5.3 %	2.6 %	3.8 %	1.9 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.070 ppb	1.488 ppb	4.276 ppb	246,399.506 ppb	2.045 ppb	2.705 ppb	1.015 ppb	2.844 ppb	96.936 %
Concentration per Run 1	0.066 ppb	1.600 ppb	4.751 ppb	256,449.334 ppb	2.139 ppb	2.951 ppb	0.983 ppb	2.856 ppb	90.999 %
Concentration per Run 2	0.109 ppb	1.486 ppb	4.307 ppb	247,220.557 ppb	2.088 ppb	2.521 ppb	1.029 ppb	2.868 ppb	100.078 %
Concentration per Run 3	0.036 ppb	1.379 ppb	3.769 ppb	235,528.627 ppb	1.907 ppb	2.643 ppb	1.032 ppb	2.809 ppb	99.730 %
Concentration RSD	52.2 %	7.4 %	11.5 %	4.3 %	6.0 %	8.2 %	2.7 %	1.1 %	5.3 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.564 ppb	3.275 ppb	2.366 ppb	2,380.754 ppb	85.786 %	0.024 ppb	0.325 ppb	93.639 %	0.204 ppb
Concentration per Run 1	0.621 ppb	3.648 ppb	2.516 ppb	2,423.477 ppb	82.827 %	0.020 ppb	0.322 ppb	89.927 %	0.217 ppb
Concentration per Run 2	0.568 ppb	2.800 ppb	2.264 ppb	2,337.248 ppb	86.631 %	0.024 ppb	0.320 ppb	96.395 %	0.193 ppb
Concentration per Run 3	0.503 ppb	3.378 ppb	2.318 ppb	2,381.537 ppb	87.900 %	0.028 ppb	0.334 ppb	94.594 %	0.201 ppb
Concentration RSD	10.4 %	13.2 %	5.6 %	1.8 %	3.1 %	17.7 %	2.4 %	3.6 %	5.9 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	1.388 ppb	102.041 %	101.954 %	0.054 ppb	1.495 ppb
Concentration per Run 1	1.371 ppb	97.038 %	98.954 %	0.038 ppb	1.534 ppb
Concentration per Run 2	1.390 ppb	104.225 %	102.455 %	0.061 ppb	1.464 ppb
Concentration per Run 3	1.403 ppb	104.859 %	104.453 %	0.062 ppb	1.486 ppb
Concentration RSD	1.2 %	4.3 %	2.7 %	25.3 %	2.4 %

Alpha ICPMSQ Data with SRD

3/5/2024 5:01:37 AM

Analysis index: 149
Analysis label: CCV
Analysis started at: 3/4/2024 6:49:05 PM
User name ALPHALAB\Metals-Instrument
Rack 0
Vial 9
Comment <Comment>

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	77.491 %	104.815 %	62.636 ppb	6,023.574 ppb	5,992.619 ppb	58.720 ppb	5,926.931 ppb	5,814.806 ppb	109.174 %
Concentration per Run 1	78.830 %	105.871 %	62.624 ppb	5,967.769 ppb	5,803.898 ppb	58.338 ppb	5,827.523 ppb	5,800.411 ppb	109.702 %
Concentration per Run 2	78.329 %	102.111 %	62.553 ppb	6,067.409 ppb	6,146.737 ppb	59.606 ppb	6,059.592 ppb	5,754.924 ppb	110.323 %
Concentration per Run 3	75.314 %	106.464 %	62.731 ppb	6,035.544 ppb	6,027.223 ppb	58.214 ppb	5,893.678 ppb	5,889.083 ppb	107.498 %
Recovery Percentage 1			104.393 %	100.393 %	99.877 %	97.866 %	98.782 %	96.913 %	
Concentration RSD	2.5 %	2.3 %	0.1 %	0.8 %	2.9 %	1.3 %	2.0 %	1.2 %	1.4 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	58.969 ppb	58.706 ppb	59.334 ppb	6,148.955 ppb	62.801 ppb	63.828 ppb	63.064 ppb	64.925 ppb	99.923 %
Concentration per Run 1	59.378 ppb	58.798 ppb	59.085 ppb	6,184.150 ppb	63.327 ppb	64.444 ppb	63.516 ppb	65.914 ppb	99.073 %
Concentration per Run 2	58.797 ppb	59.284 ppb	59.344 ppb	6,152.741 ppb	62.898 ppb	63.963 ppb	62.072 ppb	64.518 ppb	100.721 %
Concentration per Run 3	58.731 ppb	58.037 ppb	59.574 ppb	6,109.973 ppb	62.179 ppb	63.077 ppb	63.602 ppb	64.342 ppb	99.976 %
Recovery Percentage 1	98.281 %	97.844 %	98.890 %	102.483 %	104.669 %	106.380 %	105.106 %	108.208 %	
Concentration RSD	0.6 %	1.1 %	0.4 %	0.6 %	0.9 %	1.1 %	1.4 %	1.3 %	0.8 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	61.272 ppb	58.394 ppb	57.872 ppb	60.396 ppb	103.279 %	63.054 ppb	62.627 ppb	106.282 %	59.776 ppb
Concentration per Run 1	61.172 ppb	58.826 ppb	57.539 ppb	58.889 ppb	102.142 %	63.761 ppb	62.399 ppb	106.462 %	60.221 ppb
Concentration per Run 2	61.066 ppb	58.428 ppb	57.991 ppb	60.844 ppb	103.934 %	62.713 ppb	62.986 ppb	105.159 %	60.118 ppb
Concentration per Run 3	61.577 ppb	57.928 ppb	58.085 ppb	61.457 ppb	103.760 %	62.687 ppb	62.496 ppb	107.226 %	58.989 ppb
Recovery Percentage 1	102.119 %	97.323 %	96.453 %	100.661 %		105.089 %	104.378 %		99.627 %
Concentration RSD	0.4 %	0.8 %	0.5 %	2.2 %	1.0 %	1.0 %	0.5 %	1.0 %	1.1 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	60.966 ppb	109.582 %	106.706 %	65.584 ppb	65.341 ppb
Concentration per Run 1	61.170 ppb	107.285 %	105.429 %	64.416 ppb	66.024 ppb
Concentration per Run 2	61.640 ppb	109.817 %	107.244 %	65.576 ppb	64.756 ppb
Concentration per Run 3	60.089 ppb	111.643 %	107.444 %	66.759 ppb	65.242 ppb
Recovery Percentage 1	101.611 %			109.306 %	108.901 %
Concentration RSD	1.3 %	2.0 %	1.0 %	1.8 %	1.0 %

Alpha ICPMSQ Data with SRD

3/5/2024 5:01:37 AM

Analysis index: 150
Analysis label: CCB
Analysis started at: 3/4/2024 6:53:48 PM
User name ALPHALAB\Metals-Instrument
Rack 0
Vial 10
Comment <Comment>

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	73.567 %	108.180 %	0.017 ppb	-8.214 ppb	0.223 ppb	-2.826 ppb	-7.630 ppb	-0.376 ppb	92.564 %
Concentration per Run 1	75.428 %	103.298 %	0.013 ppb	-6.730 ppb	0.758 ppb	-2.827 ppb	-11.575 ppb	2.426 ppb	93.625 %
Concentration per Run 2	73.705 %	111.808 %	0.019 ppb	-8.315 ppb	-0.230 ppb	-2.798 ppb	-1.929 ppb	-2.395 ppb	93.354 %
Concentration per Run 3	71.570 %	109.433 %	0.019 ppb	-9.595 ppb	0.142 ppb	-2.854 ppb	-9.388 ppb	-1.160 ppb	90.713 %
Recovery Percentage 1			3.390 %	-8.214 %	0.319 %	-28.263 %	-7.630 %	-0.376 %	
Concentration RSD	2.6 %	4.1 %	19.0 %	17.5 %	223.5 %	1.0 %	66.3 %	665.4 %	1.7 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.028 ppb	-0.005 ppb	0.003 ppb	20.492 ppb	0.001 ppb	0.005 ppb	0.023 ppb	0.175 ppb	98.664 %
Concentration per Run 1	-0.036 ppb	-0.009 ppb	0.025 ppb	22.481 ppb	0.000 ppb	0.067 ppb	0.050 ppb	0.152 ppb	94.663 %
Concentration per Run 2	-0.030 ppb	0.001 ppb	-0.025 ppb	20.212 ppb	0.003 ppb	-0.030 ppb	0.014 ppb	0.194 ppb	102.528 %
Concentration per Run 3	-0.017 ppb	-0.008 ppb	0.010 ppb	18.783 ppb	-0.001 ppb	-0.023 ppb	0.006 ppb	0.179 ppb	98.801 %
Recovery Percentage 1	-0.553 %	-0.526 %	0.322 %	40.984 %	0.103 %	0.231 %	2.321 %	3.505 %	
Concentration RSD	35.2 %	102.3 %	805.0 %	9.1 %	341.1 %	1,164.6 %	102.2 %	12.2 %	4.0 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.103 ppb	0.292 ppb	0.000 ppb	1.482 ppb	104.739 %	0.002 ppb	0.006 ppb	108.393 %	0.061 ppb
Concentration per Run 1	0.092 ppb	0.189 ppb	0.002 ppb	1.408 ppb	104.181 %	0.003 ppb	0.004 ppb	102.454 %	0.061 ppb
Concentration per Run 2	0.119 ppb	0.451 ppb	0.003 ppb	1.452 ppb	107.273 %	0.001 ppb	0.007 ppb	112.777 %	0.068 ppb
Concentration per Run 3	0.098 ppb	0.235 ppb	-0.005 ppb	1.586 ppb	102.764 %	0.001 ppb	0.008 ppb	109.948 %	0.056 ppb
Recovery Percentage 1	20.599 %	5.834 %	-0.001 %	74.095 %		0.420 %	3.224 %		1.536 %
Concentration RSD	13.9 %	48.0 %	6,373.7 %	6.2 %	2.2 %	47.6 %	27.8 %	4.9 %	9.8 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	0.078 ppb	108.977 %	106.773 %	0.436 ppb	0.008 ppb
Concentration per Run 1	0.061 ppb	105.512 %	100.956 %	0.383 ppb	0.012 ppb
Concentration per Run 2	0.085 ppb	110.075 %	113.588 %	0.489 ppb	0.006 ppb
Concentration per Run 3	0.086 ppb	111.345 %	105.775 %	0.437 ppb	0.007 ppb
Recovery Percentage 1	15.506 %			43.614 %	0.840 %
Concentration RSD	18.0 %	2.8 %	6.0 %	12.2 %	33.5 %

Alpha ICPMSQ Data with SRD

3/5/2024 5:01:37 AM

Analysis index: 151
Analysis label: WG1890895-1 6020TL
Analysis started at: 3/4/2024 6:59:18 PM
User name ALPHALAB\Metals-Instrument
Rack 2
Vial 41
Comment <Comment>

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	75.889 %	105.079 %	0.017 ppb	-6.927 ppb	0.672 ppb	-1.536 ppb	-2.329 ppb	13.337 ppb	93.198 %
Concentration per Run 1	78.123 %	108.443 %	0.014 ppb	-8.311 ppb	0.692 ppb	-1.945 ppb	-2.097 ppb	12.947 ppb	94.590 %
Concentration per Run 2	75.776 %	97.955 %	0.016 ppb	-3.788 ppb	0.990 ppb	-0.940 ppb	-2.940 ppb	13.763 ppb	93.415 %
Concentration per Run 3	73.769 %	108.839 %	0.019 ppb	-8.683 ppb	0.333 ppb	-1.723 ppb	-1.951 ppb	13.299 ppb	91.589 %
Concentration RSD	2.9 %	5.9 %	15.6 %	39.3 %	49.0 %	34.4 %	22.9 %	3.1 %	1.6 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.036 ppb	-0.005 ppb	0.065 ppb	6.200 ppb	0.001 ppb	-0.011 ppb	0.025 ppb	0.914 ppb	98.782 %
Concentration per Run 1	-0.023 ppb	-0.008 ppb	0.090 ppb	6.370 ppb	0.004 ppb	0.004 ppb	0.026 ppb	0.885 ppb	100.127 %
Concentration per Run 2	-0.043 ppb	-0.003 ppb	0.035 ppb	8.557 ppb	-0.002 ppb	-0.039 ppb	0.024 ppb	0.983 ppb	99.723 %
Concentration per Run 3	-0.043 ppb	-0.003 ppb	0.070 ppb	3.672 ppb	-0.001 ppb	0.001 ppb	0.025 ppb	0.873 ppb	96.495 %
Concentration RSD	30.6 %	63.8 %	42.6 %	39.5 %	623.1 %	211.2 %	4.4 %	6.6 %	2.0 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.044 ppb	0.094 ppb	0.020 ppb	0.532 ppb	104.520 %	-0.002 ppb	0.003 ppb	105.571 %	0.022 ppb
Concentration per Run 1	0.020 ppb	0.187 ppb	0.020 ppb	0.429 ppb	103.206 %	-0.002 ppb	0.004 ppb	105.667 %	0.023 ppb
Concentration per Run 2	0.069 ppb	0.101 ppb	0.023 ppb	0.508 ppb	105.965 %	-0.002 ppb	0.003 ppb	107.747 %	0.021 ppb
Concentration per Run 3	0.044 ppb	-0.008 ppb	0.016 ppb	0.659 ppb	104.390 %	-0.002 ppb	0.001 ppb	103.299 %	0.022 ppb
Concentration RSD	55.0 %	104.3 %	17.4 %	22.0 %	1.3 %	19.4 %	65.2 %	2.1 %	2.9 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	0.009 ppb	106.636 %	104.020 %	0.113 ppb	-0.004 ppb
Concentration per Run 1	-0.006 ppb	105.942 %	102.680 %	0.072 ppb	-0.004 ppb
Concentration per Run 2	-0.006 ppb	108.423 %	108.366 %	0.127 ppb	-0.004 ppb
Concentration per Run 3	0.040 ppb	105.544 %	101.014 %	0.140 ppb	-0.004 ppb
Concentration RSD	286.5 %	1.5 %	3.7 %	31.8 %	8.4 %

Alpha ICPMSQ Data with SRD

3/5/2024 5:01:37 AM

Analysis index: 152
Analysis label: WG1890895-2d10 6020TL
Analysis started at: 3/4/2024 7:03:58 PM
User name ALPHALAB\Metals-Instrument
Rack 2
Vial 42
Comment <Comment>

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	74.878 %	106.860 %	5.207 ppb	967.420 ppb	931.336 ppb	182.993 ppb	919.244 ppb	896.238 ppb	93.510 %
Concentration per Run 1	76.813 %	109.829 %	5.186 ppb	973.923 ppb	943.832 ppb	187.087 ppb	919.349 ppb	932.452 ppb	94.823 %
Concentration per Run 2	74.934 %	100.726 %	5.178 ppb	979.125 ppb	957.199 ppb	183.716 ppb	945.818 ppb	917.169 ppb	93.596 %
Concentration per Run 3	72.886 %	110.027 %	5.257 ppb	949.212 ppb	892.979 ppb	178.178 ppb	892.566 ppb	839.092 ppb	92.110 %
Concentration RSD	2.6 %	5.0 %	0.8 %	1.7 %	3.6 %	2.5 %	2.9 %	5.6 %	1.5 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	46.220 ppb	19.264 ppb	47.942 ppb	121.779 ppb	51.270 ppb	52.140 ppb	26.104 ppb	48.953 ppb	95.702 %
Concentration per Run 1	47.125 ppb	19.566 ppb	49.036 ppb	124.193 ppb	53.332 ppb	53.939 ppb	26.851 ppb	51.573 ppb	93.539 %
Concentration per Run 2	45.964 ppb	19.262 ppb	46.998 ppb	123.728 ppb	50.445 ppb	51.836 ppb	26.063 ppb	47.182 ppb	96.870 %
Concentration per Run 3	45.571 ppb	18.964 ppb	47.791 ppb	117.417 ppb	50.034 ppb	50.646 ppb	25.397 ppb	48.104 ppb	96.698 %
Concentration RSD	1.7 %	1.6 %	2.1 %	3.1 %	3.5 %	3.2 %	2.8 %	4.7 %	2.0 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	12.038 ppb	11.137 ppb	91.363 ppb	94.476 ppb	103.728 %	5.065 ppb	5.479 ppb	103.149 %	42.492 ppb
Concentration per Run 1	12.642 ppb	10.931 ppb	95.537 ppb	96.313 ppb	101.422 %	5.221 ppb	5.690 ppb	103.814 %	43.485 ppb
Concentration per Run 2	11.785 ppb	11.755 ppb	86.714 ppb	92.383 ppb	103.131 %	5.092 ppb	5.362 ppb	98.793 %	42.168 ppb
Concentration per Run 3	11.687 ppb	10.725 ppb	91.838 ppb	94.732 ppb	106.632 %	4.881 ppb	5.384 ppb	106.842 %	41.823 ppb
Concentration RSD	4.4 %	4.9 %	4.8 %	2.1 %	2.6 %	3.4 %	3.3 %	3.9 %	2.1 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	202.168 ppb	107.198 %	103.976 %	12.305 ppb	56.355 ppb
Concentration per Run 1	207.983 ppb	105.285 %	102.177 %	12.571 ppb	58.305 ppb
Concentration per Run 2	201.231 ppb	104.872 %	100.142 %	12.465 ppb	57.243 ppb
Concentration per Run 3	197.289 ppb	111.436 %	109.610 %	11.877 ppb	53.518 ppb
Concentration RSD	2.7 %	3.4 %	4.8 %	3.0 %	4.5 %

Alpha ICPMSQ Data with SRD

3/5/2024 5:01:37 AM

Analysis index: 153
Analysis label: WG1890895-3d10 6020TL
Analysis started at: 3/4/2024 7:08:37 PM
User name ALPHALAB\Metals-Instrument
Rack 2
Vial 44
Comment <Comment>

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	75.743 %	105.277 %	5.204 ppb	8,760.931 ppb	5,395.439 ppb	194.261 ppb	1,406.180 ppb	9,948.905 ppb	98.676 %
Concentration per Run 1	76.461 %	99.736 %	5.293 ppb	9,059.248 ppb	5,711.368 ppb	203.349 ppb	1,408.695 ppb	10,164.183 ppb	99.447 %
Concentration per Run 2	75.755 %	105.277 %	5.129 ppb	8,561.020 ppb	5,192.266 ppb	179.743 ppb	1,392.256 ppb	9,951.742 ppb	99.262 %
Concentration per Run 3	75.013 %	110.818 %	5.190 ppb	8,662.525 ppb	5,282.683 ppb	199.691 ppb	1,417.588 ppb	9,730.790 ppb	97.319 %
Concentration RSD	1.0 %	5.3 %	1.6 %	3.0 %	5.1 %	6.5 %	0.9 %	2.2 %	1.2 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	47.648 ppb	18.764 ppb	49.347 ppb	145.448 ppb	50.189 ppb	50.644 ppb	25.273 ppb	47.931 ppb	97.464 %
Concentration per Run 1	48.830 ppb	19.712 ppb	49.845 ppb	151.312 ppb	50.559 ppb	52.151 ppb	25.751 ppb	48.830 ppb	96.956 %
Concentration per Run 2	47.376 ppb	18.657 ppb	50.143 ppb	146.205 ppb	51.548 ppb	51.430 ppb	25.733 ppb	47.985 ppb	93.938 %
Concentration per Run 3	46.737 ppb	17.924 ppb	48.052 ppb	138.827 ppb	48.459 ppb	48.352 ppb	24.336 ppb	46.979 ppb	101.499 %
Concentration RSD	2.3 %	4.8 %	2.3 %	4.3 %	3.1 %	4.0 %	3.2 %	1.9 %	3.9 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	12.422 ppb	11.308 ppb	117.110 ppb	97.523 ppb	103.311 %	4.965 ppb	5.297 ppb	102.351 %	43.969 ppb
Concentration per Run 1	12.817 ppb	11.572 ppb	120.982 ppb	96.622 ppb	101.091 %	5.040 ppb	5.390 ppb	102.276 %	43.888 ppb
Concentration per Run 2	12.205 ppb	11.065 ppb	112.482 ppb	98.365 ppb	102.202 %	4.942 ppb	5.260 ppb	98.977 %	43.827 ppb
Concentration per Run 3	12.245 ppb	11.288 ppb	117.865 ppb	97.582 ppb	106.641 %	4.913 ppb	5.242 ppb	105.800 %	44.192 ppb
Concentration RSD	2.8 %	2.2 %	3.7 %	0.9 %	2.8 %	1.3 %	1.5 %	3.3 %	0.4 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	204.001 ppb	108.000 %	106.571 %	11.876 ppb	54.386 ppb
Concentration per Run 1	207.581 ppb	106.149 %	105.462 %	11.909 ppb	55.861 ppb
Concentration per Run 2	196.296 ppb	105.840 %	103.438 %	12.060 ppb	54.604 ppb
Concentration per Run 3	208.126 ppb	112.011 %	110.811 %	11.658 ppb	52.693 ppb
Concentration RSD	3.3 %	3.2 %	3.6 %	1.7 %	2.9 %

Alpha ICPMSQ Data with SRD

3/5/2024 5:01:37 AM

Analysis index:	154	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	WG1890895-5d10 6020TL	Rack	2		
Analysis started at:	3/4/2024 7:13:17 PM	Vial	46		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	71.241 %	101.121 %	56.707 ppb	13,125.551 ppb	9,285.263 ppb	58.332 ppb	5,500.702 ppb	13,388.200 ppb	95.020 %
Concentration per Run 1	72.690 %	101.715 %	56.249 ppb	13,479.227 ppb	9,479.030 ppb	57.895 ppb	5,619.399 ppb	13,645.885 ppb	95.565 %
Concentration per Run 2	71.160 %	99.736 %	57.203 ppb	12,686.400 ppb	9,015.295 ppb	54.127 ppb	5,339.199 ppb	13,011.315 ppb	95.175 %
Concentration per Run 3	69.873 %	101.913 %	56.668 ppb	13,211.027 ppb	9,361.462 ppb	62.973 ppb	5,543.507 ppb	13,507.400 ppb	94.319 %
Concentration RSD	2.0 %	1.2 %	0.8 %	3.1 %	2.6 %	7.6 %	2.6 %	2.5 %	0.7 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	52.498 ppb	51.500 ppb	52.703 ppb	5,316.843 ppb	54.064 ppb	54.564 ppb	53.534 ppb	52.330 ppb	95.496 %
Concentration per Run 1	52.311 ppb	52.423 ppb	54.800 ppb	5,396.875 ppb	54.625 ppb	55.655 ppb	54.597 ppb	53.114 ppb	96.347 %
Concentration per Run 2	52.588 ppb	51.458 ppb	51.638 ppb	5,346.972 ppb	54.379 ppb	55.330 ppb	53.902 ppb	52.479 ppb	91.618 %
Concentration per Run 3	52.595 ppb	50.619 ppb	51.671 ppb	5,206.683 ppb	53.187 ppb	52.707 ppb	52.102 ppb	51.395 ppb	98.523 %
Concentration RSD	0.3 %	1.8 %	3.4 %	1.9 %	1.4 %	3.0 %	2.4 %	1.7 %	3.7 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	53.713 ppb	50.911 ppb	77.446 ppb	55.805 ppb	99.491 %	0.635 ppb	55.228 ppb	99.175 %	57.188 ppb
Concentration per Run 1	53.972 ppb	52.948 ppb	79.644 ppb	55.717 ppb	99.763 %	0.636 ppb	56.025 ppb	100.716 %	58.474 ppb
Concentration per Run 2	54.346 ppb	49.305 ppb	74.309 ppb	55.744 ppb	98.153 %	0.634 ppb	55.427 ppb	94.898 %	56.333 ppb
Concentration per Run 3	52.821 ppb	50.480 ppb	78.385 ppb	55.955 ppb	100.557 %	0.635 ppb	54.231 ppb	101.912 %	56.757 ppb
Concentration RSD	1.5 %	3.7 %	3.6 %	0.2 %	1.2 %	0.2 %	1.7 %	3.8 %	2.0 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	61.932 ppb	106.282 %	104.099 %	56.099 ppb	57.804 ppb
Concentration per Run 1	62.153 ppb	104.859 %	103.640 %	54.364 ppb	58.996 ppb
Concentration per Run 2	60.915 ppb	104.207 %	100.182 %	58.323 ppb	58.766 ppb
Concentration per Run 3	62.729 ppb	109.781 %	108.476 %	55.611 ppb	55.650 ppb
Concentration RSD	1.5 %	2.9 %	4.0 %	3.6 %	3.2 %

Alpha ICPMSQ Data with SRD

3/5/2024 5:01:37 AM

Analysis index:	155	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	WG1890895-4 6020TL	Rack	2		
Analysis started at:	3/4/2024 7:17:57 PM	Vial	45		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	70.945 %	101.253 %	0.032 ppb	84,010.320 ppb	48,170.257 ppb	68.284 ppb	4,507.743 ppb	93,581.567 ppb	93.527 %
Concentration per Run 1	71.572 %	94.195 %	0.027 ppb	90,280.054 ppb	51,908.271 ppb	71.032 ppb	4,745.683 ppb	97,105.086 ppb	93.571 %
Concentration per Run 2	71.268 %	106.069 %	0.028 ppb	78,502.979 ppb	44,344.809 ppb	63.615 ppb	4,266.140 ppb	87,941.607 ppb	94.404 %
Concentration per Run 3	69.994 %	103.496 %	0.040 ppb	83,247.927 ppb	48,257.689 ppb	70.206 ppb	4,511.407 ppb	95,698.008 ppb	92.605 %
Concentration RSD	1.2 %	6.2 %	22.8 %	7.1 %	7.9 %	6.0 %	5.3 %	5.3 %	1.0 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	1.996 ppb	1.675 ppb	16.977 ppb	199.667 ppb	0.240 ppb	1.445 ppb	0.930 ppb	2.546 ppb	94.531 %
Concentration per Run 1	2.044 ppb	1.646 ppb	17.300 ppb	197.967 ppb	0.229 ppb	1.443 ppb	0.976 ppb	2.714 ppb	97.463 %
Concentration per Run 2	1.875 ppb	1.576 ppb	16.074 ppb	193.968 ppb	0.237 ppb	1.444 ppb	0.844 ppb	2.456 ppb	94.309 %
Concentration per Run 3	2.070 ppb	1.803 ppb	17.555 ppb	207.067 ppb	0.255 ppb	1.449 ppb	0.969 ppb	2.468 ppb	91.819 %
Concentration RSD	5.3 %	6.9 %	4.7 %	3.4 %	5.7 %	0.2 %	8.0 %	5.7 %	3.0 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	1.690 ppb	2.410 ppb	272.375 ppb	2.149 ppb	94.241 %	0.015 ppb	0.031 ppb	98.155 %	0.776 ppb
Concentration per Run 1	1.674 ppb	2.630 ppb	278.309 ppb	2.069 ppb	94.149 %	0.016 ppb	0.031 ppb	98.875 %	0.745 ppb
Concentration per Run 2	1.641 ppb	2.236 ppb	259.591 ppb	2.194 ppb	93.818 %	0.013 ppb	0.028 ppb	95.640 %	0.785 ppb
Concentration per Run 3	1.754 ppb	2.365 ppb	279.226 ppb	2.183 ppb	94.757 %	0.015 ppb	0.033 ppb	99.950 %	0.797 ppb
Concentration RSD	3.4 %	8.4 %	4.1 %	3.2 %	0.5 %	10.6 %	8.7 %	2.3 %	3.5 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	79.406 ppb	105.398 %	103.755 %	0.454 ppb	0.355 ppb
Concentration per Run 1	82.426 ppb	105.095 %	103.335 %	0.367 ppb	0.359 ppb
Concentration per Run 2	78.859 ppb	103.034 %	100.860 %	0.554 ppb	0.366 ppb
Concentration per Run 3	76.932 ppb	108.064 %	107.069 %	0.442 ppb	0.339 ppb
Concentration RSD	3.5 %	2.4 %	3.0 %	20.7 %	3.9 %

Alpha ICPMSQ Data with SRD

3/5/2024 5:01:37 AM

Analysis index: 156
Analysis label: I2410492-01 6020TL
Analysis started at: 3/4/2024 7:22:36 PM
User name ALPHALAB\Metals-Instrument
Rack 2
Vial 43
Comment <Comment>

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	69.459 %	97.757 %	0.018 ppb	83,112.035 ppb	47,528.993 ppb	68.284 ppb	4,493.562 ppb	94,168.943 ppb	87.275 %
Concentration per Run 1	70.585 %	97.955 %	0.026 ppb	83,138.569 ppb	47,410.848 ppb	67.875 ppb	4,456.143 ppb	93,552.028 ppb	88.115 %
Concentration per Run 2	68.633 %	97.757 %	0.011 ppb	82,850.882 ppb	48,052.206 ppb	70.700 ppb	4,584.287 ppb	95,631.488 ppb	85.924 %
Concentration per Run 3	69.158 %	97.559 %	0.016 ppb	83,346.653 ppb	47,123.924 ppb	66.276 ppb	4,440.257 ppb	93,323.311 ppb	87.785 %
Concentration RSD	1.5 %	0.2 %	42.6 %	0.3 %	1.0 %	3.3 %	1.8 %	1.4 %	1.4 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	1.935 ppb	1.718 ppb	16.789 ppb	195.313 ppb	0.137 ppb	1.272 ppb	0.907 ppb	2.241 ppb	90.853 %
Concentration per Run 1	1.809 ppb	1.775 ppb	17.351 ppb	210.186 ppb	0.149 ppb	1.242 ppb	0.998 ppb	2.303 ppb	86.576 %
Concentration per Run 2	1.917 ppb	1.710 ppb	16.618 ppb	187.366 ppb	0.137 ppb	1.208 ppb	0.856 ppb	2.283 ppb	91.839 %
Concentration per Run 3	2.081 ppb	1.669 ppb	16.399 ppb	188.386 ppb	0.126 ppb	1.367 ppb	0.868 ppb	2.138 ppb	94.144 %
Concentration RSD	7.1 %	3.1 %	3.0 %	6.6 %	8.4 %	6.6 %	8.7 %	4.0 %	4.3 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	1.507 ppb	2.020 ppb	274.350 ppb	1.030 ppb	89.101 %	0.002 ppb	0.021 ppb	94.980 %	0.399 ppb
Concentration per Run 1	1.593 ppb	2.765 ppb	272.201 ppb	0.970 ppb	86.101 %	0.002 ppb	0.017 ppb	91.071 %	0.371 ppb
Concentration per Run 2	1.490 ppb	1.444 ppb	276.628 ppb	1.018 ppb	90.781 %	0.003 ppb	0.019 ppb	98.043 %	0.424 ppb
Concentration per Run 3	1.438 ppb	1.851 ppb	274.222 ppb	1.102 ppb	90.421 %	0.001 ppb	0.027 ppb	95.825 %	0.403 ppb
Concentration RSD	5.2 %	33.5 %	0.8 %	6.5 %	2.9 %	42.1 %	24.5 %	3.8 %	6.7 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	79.245 ppb	101.283 %	99.929 %	0.137 ppb	0.221 ppb
Concentration per Run 1	81.038 ppb	96.132 %	91.803 %	0.096 ppb	0.244 ppb
Concentration per Run 2	77.758 ppb	102.412 %	102.483 %	0.162 ppb	0.206 ppb
Concentration per Run 3	78.938 ppb	105.304 %	105.500 %	0.153 ppb	0.213 ppb
Concentration RSD	2.1 %	4.6 %	7.2 %	26.2 %	9.1 %

Alpha ICPMSQ Data with SRD

3/5/2024 5:01:37 AM

Analysis index:	157	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	I2410492-02 6020TL	Rack	2		
Analysis started at:	3/4/2024 7:27:15 PM	Vial	48		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	68.908 %	95.383 %	0.011 ppb	88,148.829 ppb	44,785.342 ppb	27.005 ppb	4,343.218 ppb	89,665.549 ppb	86.870 %
Concentration per Run 1	70.359 %	83.509 %	0.006 ppb	94,577.006 ppb	47,934.386 ppb	27.474 ppb	4,479.513 ppb	92,514.605 ppb	86.902 %
Concentration per Run 2	68.775 %	99.538 %	0.014 ppb	84,767.388 ppb	42,932.349 ppb	28.102 ppb	4,352.459 ppb	89,469.829 ppb	87.346 %
Concentration per Run 3	67.591 %	103.100 %	0.013 ppb	85,102.092 ppb	43,489.292 ppb	25.440 ppb	4,197.683 ppb	87,012.214 ppb	86.363 %
Concentration RSD	2.0 %	10.9 %	40.8 %	6.3 %	6.1 %	5.2 %	3.2 %	3.1 %	0.6 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	1.458 ppb	1.286 ppb	6.967 ppb	84.812 ppb	0.132 ppb	3.068 ppb	0.785 ppb	0.746 ppb	86.779 %
Concentration per Run 1	1.512 ppb	1.292 ppb	7.339 ppb	88.929 ppb	0.139 ppb	3.219 ppb	0.823 ppb	0.765 ppb	84.152 %
Concentration per Run 2	1.613 ppb	1.321 ppb	6.606 ppb	84.011 ppb	0.123 ppb	3.053 ppb	0.759 ppb	0.819 ppb	89.287 %
Concentration per Run 3	1.249 ppb	1.245 ppb	6.956 ppb	81.496 ppb	0.134 ppb	2.931 ppb	0.774 ppb	0.655 ppb	86.900 %
Concentration RSD	12.9 %	3.0 %	5.3 %	4.5 %	5.9 %	4.7 %	4.3 %	11.2 %	3.0 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	1.172 ppb	2.176 ppb	192.767 ppb	0.624 ppb	88.327 %	0.000 ppb	0.012 ppb	93.419 %	0.257 ppb
Concentration per Run 1	1.173 ppb	2.001 ppb	189.169 ppb	0.570 ppb	86.644 %	0.000 ppb	0.008 ppb	87.649 %	0.235 ppb
Concentration per Run 2	1.198 ppb	2.121 ppb	192.033 ppb	0.642 ppb	90.201 %	-0.001 ppb	0.011 ppb	97.168 %	0.246 ppb
Concentration per Run 3	1.147 ppb	2.406 ppb	197.098 ppb	0.662 ppb	88.135 %	0.001 ppb	0.017 ppb	95.440 %	0.290 ppb
Concentration RSD	2.2 %	9.6 %	2.1 %	7.7 %	2.0 %	664.1 %	36.7 %	5.4 %	11.5 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	77.194 ppb	100.200 %	99.368 %	0.085 ppb	0.214 ppb
Concentration per Run 1	78.931 ppb	96.542 %	94.837 %	0.051 ppb	0.219 ppb
Concentration per Run 2	74.345 ppb	103.535 %	100.466 %	0.102 ppb	0.211 ppb
Concentration per Run 3	78.306 ppb	100.522 %	102.802 %	0.101 ppb	0.213 ppb
Concentration RSD	3.2 %	3.5 %	4.1 %	34.4 %	2.1 %

Alpha ICPMSQ Data with SRD

3/5/2024 5:01:37 AM

Analysis index:	158	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	I2410492-03 6020TL	Rack	2		
Analysis started at:	3/4/2024 7:31:56 PM	Vial	49		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	65.757 %	95.844 %	0.019 ppb	131,155.546 ppb	8,165.971 ppb	44.019 ppb	16,115.174 ppb	66,539.415 ppb	87.211 %
Concentration per Run 1	66.346 %	84.301 %	0.015 ppb	138,038.013 ppb	8,575.341 ppb	47.295 ppb	15,858.463 ppb	67,070.633 ppb	87.597 %
Concentration per Run 2	66.222 %	109.235 %	0.018 ppb	117,387.584 ppb	7,270.585 ppb	39.395 ppb	15,619.237 ppb	63,686.350 ppb	87.291 %
Concentration per Run 3	64.705 %	93.997 %	0.023 ppb	138,041.041 ppb	8,651.986 ppb	45.367 ppb	16,867.822 ppb	68,861.261 ppb	86.743 %
Concentration RSD	1.4 %	13.1 %	21.3 %	9.1 %	9.5 %	9.4 %	4.1 %	3.9 %	0.5 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	1.111 ppb	0.708 ppb	4,469.457 ppb	257.216 ppb	2.778 ppb	6.325 ppb	0.918 ppb	2.111 ppb	85.779 %
Concentration per Run 1	1.092 ppb	0.680 ppb	4,420.910 ppb	257.313 ppb	2.899 ppb	6.623 ppb	0.972 ppb	2.207 ppb	85.933 %
Concentration per Run 2	0.951 ppb	0.696 ppb	4,409.133 ppb	253.109 ppb	2.666 ppb	5.917 ppb	0.867 ppb	1.988 ppb	86.483 %
Concentration per Run 3	1.291 ppb	0.749 ppb	4,578.327 ppb	261.226 ppb	2.770 ppb	6.433 ppb	0.916 ppb	2.139 ppb	84.921 %
Concentration RSD	15.4 %	5.1 %	2.1 %	1.6 %	4.2 %	5.8 %	5.7 %	5.3 %	0.9 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.580 ppb	0.512 ppb	377.710 ppb	10.455 ppb	88.091 %	0.000 ppb	0.056 ppb	92.694 %	0.302 ppb
Concentration per Run 1	0.513 ppb	0.357 ppb	361.144 ppb	10.214 ppb	84.081 %	0.001 ppb	0.058 ppb	86.701 %	0.293 ppb
Concentration per Run 2	0.652 ppb	0.448 ppb	381.722 ppb	10.186 ppb	90.422 %	0.000 ppb	0.054 ppb	96.630 %	0.322 ppb
Concentration per Run 3	0.576 ppb	0.731 ppb	390.264 ppb	10.964 ppb	89.769 %	0.001 ppb	0.056 ppb	94.751 %	0.290 ppb
Concentration RSD	12.0 %	38.2 %	4.0 %	4.2 %	4.0 %	45.2 %	3.7 %	5.7 %	5.8 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	108.100 ppb	99.922 %	99.100 %	0.131 ppb	0.366 ppb
Concentration per Run 1	107.970 ppb	95.768 %	92.171 %	0.114 ppb	0.390 ppb
Concentration per Run 2	111.025 ppb	101.155 %	102.251 %	0.136 ppb	0.358 ppb
Concentration per Run 3	105.305 ppb	102.844 %	102.879 %	0.143 ppb	0.351 ppb
Concentration RSD	2.6 %	3.7 %	6.1 %	11.5 %	5.7 %

Alpha ICPMSQ Data with SRD

3/5/2024 5:01:37 AM

Analysis index:	159	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	I2410492-04 6020TL	Rack	2		
Analysis started at:	3/4/2024 7:36:35 PM	Vial	50		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	66.990 %	100.726 %	0.009 ppb	188,248.546 ppb	60,995.217 ppb	2.957 ppb	14,436.428 ppb	81,825.497 ppb	91.216 %
Concentration per Run 1	68.970 %	99.736 %	0.007 ppb	187,895.498 ppb	61,416.963 ppb	3.806 ppb	14,167.090 ppb	80,147.582 ppb	92.525 %
Concentration per Run 2	66.755 %	97.559 %	0.012 ppb	195,826.102 ppb	62,430.768 ppb	2.187 ppb	14,667.417 ppb	83,219.419 ppb	90.968 %
Concentration per Run 3	65.245 %	104.881 %	0.008 ppb	181,024.038 ppb	59,137.918 ppb	2.877 ppb	14,474.777 ppb	82,109.490 ppb	90.154 %
Concentration RSD	2.8 %	3.7 %	30.1 %	3.9 %	2.8 %	27.5 %	1.7 %	1.9 %	1.3 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.293 ppb	0.314 ppb	5,027.510 ppb	2,248.792 ppb	1.816 ppb	4.204 ppb	0.421 ppb	1.723 ppb	88.929 %
Concentration per Run 1	0.273 ppb	0.312 ppb	5,049.171 ppb	2,266.982 ppb	1.880 ppb	4.110 ppb	0.376 ppb	1.692 ppb	84.852 %
Concentration per Run 2	0.298 ppb	0.302 ppb	4,994.369 ppb	2,256.517 ppb	1.757 ppb	4.212 ppb	0.471 ppb	1.732 ppb	93.367 %
Concentration per Run 3	0.308 ppb	0.330 ppb	5,038.991 ppb	2,222.876 ppb	1.810 ppb	4.289 ppb	0.417 ppb	1.745 ppb	88.567 %
Concentration RSD	6.2 %	4.5 %	0.6 %	1.0 %	3.4 %	2.1 %	11.3 %	1.6 %	4.8 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	4.044 ppb	0.136 ppb	450.706 ppb	3.864 ppb	88.554 %	-0.001 ppb	0.054 ppb	92.587 %	0.137 ppb
Concentration per Run 1	4.158 ppb	-0.020 ppb	451.365 ppb	3.868 ppb	86.838 %	-0.002 ppb	0.065 ppb	87.996 %	0.154 ppb
Concentration per Run 2	3.865 ppb	0.209 ppb	440.260 ppb	3.765 ppb	88.371 %	-0.002 ppb	0.047 ppb	96.744 %	0.117 ppb
Concentration per Run 3	4.108 ppb	0.221 ppb	460.495 ppb	3.960 ppb	90.454 %	0.000 ppb	0.050 ppb	93.022 %	0.141 ppb
Concentration RSD	3.9 %	99.4 %	2.2 %	2.5 %	2.0 %	58.2 %	18.5 %	4.7 %	13.9 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	179.880 ppb	101.023 %	98.818 %	0.055 ppb	0.050 ppb
Concentration per Run 1	181.504 ppb	98.061 %	94.744 %	0.036 ppb	0.051 ppb
Concentration per Run 2	179.802 ppb	101.862 %	100.973 %	0.062 ppb	0.049 ppb
Concentration per Run 3	178.336 ppb	103.146 %	100.736 %	0.067 ppb	0.049 ppb
Concentration RSD	0.9 %	2.6 %	3.6 %	30.4 %	2.1 %

Alpha ICPMSQ Data with SRD

3/5/2024 5:01:37 AM

Analysis index: 160
Analysis label: WG1890895-6d5 6020TL
Analysis started at: 3/4/2024 7:41:15 PM
User name ALPHALAB\Metals-Instrument
Rack 2
Vial 47
Comment <Comment>

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	73.299 %	101.913 %	0.017 ppb	16,294.107 ppb	8,986.236 ppb	15.099 ppb	865.547 ppb	17,729.289 ppb	94.058 %
Concentration per Run 1	75.006 %	106.860 %	0.015 ppb	15,952.317 ppb	8,743.481 ppb	13.716 ppb	838.656 ppb	17,694.491 ppb	95.378 %
Concentration per Run 2	73.264 %	100.132 %	0.019 ppb	16,396.056 ppb	9,023.532 ppb	15.317 ppb	877.694 ppb	17,584.454 ppb	93.370 %
Concentration per Run 3	71.628 %	98.747 %	0.016 ppb	16,533.947 ppb	9,191.696 ppb	16.265 ppb	880.290 ppb	17,908.922 ppb	93.426 %
Concentration RSD	2.3 %	4.3 %	13.0 %	1.9 %	2.5 %	8.5 %	2.7 %	0.9 %	1.2 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.386 ppb	0.381 ppb	3.385 ppb	56.518 ppb	0.073 ppb	0.326 ppb	0.205 ppb	0.658 ppb	96.696 %
Concentration per Run 1	0.334 ppb	0.402 ppb	3.509 ppb	56.211 ppb	0.086 ppb	0.313 ppb	0.215 ppb	0.775 ppb	93.373 %
Concentration per Run 2	0.415 ppb	0.401 ppb	3.309 ppb	56.870 ppb	0.064 ppb	0.312 ppb	0.230 ppb	0.579 ppb	99.136 %
Concentration per Run 3	0.408 ppb	0.340 ppb	3.337 ppb	56.474 ppb	0.070 ppb	0.352 ppb	0.171 ppb	0.619 ppb	97.581 %
Concentration RSD	11.6 %	9.3 %	3.2 %	0.6 %	15.9 %	7.1 %	14.9 %	15.7 %	3.1 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.342 ppb	0.363 ppb	50.809 ppb	0.407 ppb	99.544 %	0.004 ppb	0.008 ppb	105.105 %	0.142 ppb
Concentration per Run 1	0.401 ppb	0.421 ppb	52.071 ppb	0.367 ppb	99.349 %	0.004 ppb	0.009 ppb	104.376 %	0.133 ppb
Concentration per Run 2	0.292 ppb	0.477 ppb	49.776 ppb	0.365 ppb	99.490 %	0.003 ppb	0.003 ppb	106.615 %	0.141 ppb
Concentration per Run 3	0.334 ppb	0.192 ppb	50.580 ppb	0.489 ppb	99.795 %	0.005 ppb	0.013 ppb	104.322 %	0.151 ppb
Concentration RSD	16.1 %	41.5 %	2.3 %	17.4 %	0.2 %	26.7 %	58.0 %	1.2 %	6.4 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	14.746 ppb	107.844 %	104.042 %	0.049 ppb	0.099 ppb
Concentration per Run 1	14.519 ppb	105.655 %	100.690 %	0.032 ppb	0.105 ppb
Concentration per Run 2	14.575 ppb	107.181 %	104.583 %	0.058 ppb	0.097 ppb
Concentration per Run 3	15.144 ppb	110.695 %	106.855 %	0.057 ppb	0.096 ppb
Concentration RSD	2.3 %	2.4 %	3.0 %	30.8 %	4.8 %

Alpha ICPMSQ Data with SRD

3/5/2024 5:01:37 AM

Analysis index:	161	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	CCV	Rack	0		
Analysis started at:	3/4/2024 7:45:55 PM	Vial	9		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	69.312 %	97.889 %	66.912 ppb	5,954.334 ppb	5,924.366 ppb	58.293 ppb	5,963.605 ppb	5,834.787 ppb	95.291 %
Concentration per Run 1	70.703 %	96.768 %	68.115 ppb	5,984.683 ppb	5,982.141 ppb	58.379 ppb	5,972.966 ppb	5,866.544 ppb	96.118 %
Concentration per Run 2	69.311 %	100.923 %	66.378 ppb	5,933.245 ppb	5,863.393 ppb	55.553 ppb	5,899.087 ppb	5,893.176 ppb	95.027 %
Concentration per Run 3	67.923 %	95.976 %	66.243 ppb	5,945.073 ppb	5,927.565 ppb	60.947 ppb	6,018.762 ppb	5,744.642 ppb	94.728 %
Recovery Percentage 1			111.520 %	99.239 %	98.739 %	97.156 %	99.393 %	97.246 %	
Concentration RSD	2.0 %	2.7 %	1.6 %	0.5 %	1.0 %	4.6 %	1.0 %	1.4 %	0.8 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	59.588 ppb	59.953 ppb	60.325 ppb	6,219.217 ppb	63.664 ppb	64.100 ppb	65.658 ppb	67.456 ppb	89.729 %
Concentration per Run 1	59.466 ppb	61.008 ppb	60.263 ppb	6,329.786 ppb	65.979 ppb	66.730 ppb	67.350 ppb	69.118 ppb	87.814 %
Concentration per Run 2	59.947 ppb	60.656 ppb	62.645 ppb	6,283.815 ppb	64.776 ppb	64.792 ppb	65.974 ppb	67.302 ppb	89.054 %
Concentration per Run 3	59.352 ppb	58.195 ppb	58.068 ppb	6,044.052 ppb	60.238 ppb	60.779 ppb	63.649 ppb	65.949 ppb	92.319 %
Recovery Percentage 1	99.314 %	99.922 %	100.542 %	103.654 %	106.107 %	106.834 %	109.429 %	112.427 %	
Concentration RSD	0.5 %	2.6 %	3.8 %	2.5 %	4.8 %	4.7 %	2.8 %	2.4 %	2.6 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	62.246 ppb	60.101 ppb	57.535 ppb	60.052 ppb	96.207 %	63.790 ppb	63.984 ppb	96.721 %	61.740 ppb
Concentration per Run 1	63.254 ppb	58.768 ppb	56.839 ppb	59.655 ppb	94.033 %	65.370 ppb	64.586 ppb	93.297 %	62.468 ppb
Concentration per Run 2	63.822 ppb	61.775 ppb	58.407 ppb	59.995 ppb	97.429 %	63.247 ppb	63.445 ppb	97.117 %	61.594 ppb
Concentration per Run 3	59.662 ppb	59.760 ppb	57.360 ppb	60.505 ppb	97.158 %	62.752 ppb	63.922 ppb	99.750 %	61.158 ppb
Recovery Percentage 1	103.744 %	100.168 %	95.892 %	100.086 %		106.316 %	106.640 %		102.900 %
Concentration RSD	3.6 %	2.5 %	1.4 %	0.7 %	2.0 %	2.2 %	0.9 %	3.4 %	1.1 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	62.520 ppb	102.770 %	100.167 %	64.506 ppb	64.985 ppb
Concentration per Run 1	62.665 ppb	98.511 %	94.570 %	65.840 ppb	67.434 ppb
Concentration per Run 2	62.007 ppb	104.017 %	102.677 %	63.736 ppb	64.295 ppb
Concentration per Run 3	62.886 ppb	105.781 %	103.254 %	63.944 ppb	63.228 ppb
Recovery Percentage 1	104.199 %			107.511 %	108.309 %
Concentration RSD	0.7 %	3.7 %	4.8 %	1.8 %	3.4 %

Alpha ICPMSQ Data with SRD

3/5/2024 5:01:37 AM

Analysis index: 162
Analysis label: CCB
Analysis started at: 3/4/2024 7:50:38 PM
User name ALPHALAB\Metals-Instrument
Rack 0
Vial 10
Comment <Comment>

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	67.762 %	96.570 %	0.016 ppb	-8.110 ppb	0.227 ppb	-2.917 ppb	-4.184 ppb	0.845 ppb	77.701 %
Concentration per Run 1	67.888 %	94.195 %	0.016 ppb	-8.398 ppb	-0.167 ppb	-2.941 ppb	-3.671 ppb	1.746 ppb	77.587 %
Concentration per Run 2	68.129 %	104.486 %	0.014 ppb	-9.874 ppb	0.574 ppb	-3.044 ppb	-6.392 ppb	1.470 ppb	77.603 %
Concentration per Run 3	67.267 %	91.029 %	0.017 ppb	-6.057 ppb	0.275 ppb	-2.767 ppb	-2.488 ppb	-0.682 ppb	77.914 %
Recovery Percentage 1			3.171 %	-8.110 %	0.325 %	-29.174 %	-4.184 %	0.845 %	
Concentration RSD	0.7 %	7.3 %	8.7 %	23.7 %	163.9 %	4.8 %	47.8 %	157.4 %	0.2 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.023 ppb	-0.009 ppb	0.070 ppb	14.073 ppb	0.002 ppb	0.043 ppb	0.003 ppb	0.100 ppb	88.379 %
Concentration per Run 1	-0.028 ppb	-0.023 ppb	0.044 ppb	15.870 ppb	0.003 ppb	0.033 ppb	-0.007 ppb	0.072 ppb	88.521 %
Concentration per Run 2	-0.022 ppb	0.002 ppb	0.041 ppb	12.875 ppb	0.003 ppb	0.030 ppb	0.004 ppb	0.120 ppb	88.725 %
Concentration per Run 3	-0.020 ppb	-0.005 ppb	0.125 ppb	13.476 ppb	0.000 ppb	0.066 ppb	0.014 ppb	0.109 ppb	87.889 %
Recovery Percentage 1	-0.467 %	-0.877 %	6.977 %	28.147 %	0.413 %	2.151 %	0.348 %	2.008 %	
Concentration RSD	17.6 %	141.7 %	68.4 %	11.3 %	99.6 %	46.1 %	303.8 %	25.0 %	0.5 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.118 ppb	0.265 ppb	0.000 ppb	0.892 ppb	95.651 %	0.004 ppb	0.006 ppb	96.384 %	0.100 ppb
Concentration per Run 1	0.097 ppb	0.151 ppb	0.001 ppb	0.885 ppb	95.578 %	0.003 ppb	0.007 ppb	95.466 %	0.090 ppb
Concentration per Run 2	0.096 ppb	0.212 ppb	-0.001 ppb	0.825 ppb	97.814 %	0.004 ppb	0.008 ppb	96.825 %	0.102 ppb
Concentration per Run 3	0.162 ppb	0.431 ppb	0.000 ppb	0.966 ppb	93.562 %	0.003 ppb	0.002 ppb	96.863 %	0.109 ppb
Recovery Percentage 1	23.629 %	5.297 %	0.000 %	44.605 %		0.904 %	2.994 %		2.510 %
Concentration RSD	32.2 %	55.5 %	5,706.1 %	7.9 %	2.2 %	17.9 %	55.9 %	0.8 %	9.8 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	0.000 ppb	100.029 %	98.828 %	0.458 ppb	0.006 ppb
Concentration per Run 1	-0.011 ppb	99.784 %	97.557 %	0.371 ppb	0.008 ppb
Concentration per Run 2	-0.005 ppb	100.880 %	100.522 %	0.530 ppb	0.004 ppb
Concentration per Run 3	0.017 ppb	99.423 %	98.405 %	0.471 ppb	0.005 ppb
Recovery Percentage 1	0.045 %			45.765 %	0.566 %
Concentration RSD	6,491.5 %	0.8 %	1.5 %	17.5 %	34.7 %

Alpha ICPMSQ Data with SRD

3/5/2024 5:01:37 AM

Analysis index:	163	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	CCV	Rack	0		
Analysis started at:	3/4/2024 8:02:56 PM	Vial	9		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	71.952 %	96.438 %	63.387 ppb	5,991.304 ppb	5,987.564 ppb	57.447 ppb	5,831.044 ppb	5,798.390 ppb	103.557 %
Concentration per Run 1	72.960 %	101.121 %	63.163 ppb	5,891.012 ppb	5,882.564 ppb	54.403 ppb	5,850.645 ppb	5,899.069 ppb	104.469 %
Concentration per Run 2	72.228 %	92.612 %	63.548 ppb	6,071.090 ppb	6,087.564 ppb	55.084 ppb	5,696.299 ppb	5,589.575 ppb	103.628 %
Concentration per Run 3	70.666 %	95.580 %	63.451 ppb	6,011.811 ppb	5,992.564 ppb	62.854 ppb	5,946.190 ppb	5,906.528 ppb	102.574 %
Recovery Percentage 1			105.646 %	99.855 %	99.793 %	95.745 %	97.184 %	96.640 %	
Concentration RSD	1.6 %	4.5 %	0.3 %	1.5 %	1.7 %	8.2 %	2.2 %	3.1 %	0.9 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	59.275 ppb	60.034 ppb	60.080 ppb	6,145.626 ppb	62.981 ppb	64.349 ppb	64.073 ppb	65.264 ppb	89.546 %
Concentration per Run 1	59.520 ppb	61.087 ppb	61.269 ppb	6,210.635 ppb	63.623 ppb	65.520 ppb	64.324 ppb	65.047 ppb	88.669 %
Concentration per Run 2	59.664 ppb	59.259 ppb	57.901 ppb	6,067.341 ppb	63.024 ppb	64.509 ppb	64.942 ppb	66.102 ppb	87.658 %
Concentration per Run 3	58.640 ppb	59.757 ppb	61.070 ppb	6,158.903 ppb	62.296 ppb	63.020 ppb	62.953 ppb	64.644 ppb	92.312 %
Recovery Percentage 1	98.791 %	100.057 %	100.133 %	102.427 %	104.969 %	107.249 %	106.788 %	108.774 %	
Concentration RSD	0.9 %	1.6 %	3.1 %	1.2 %	1.1 %	2.0 %	1.6 %	1.2 %	2.7 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	61.539 ppb	58.049 ppb	57.530 ppb	59.107 ppb	97.383 %	62.376 ppb	61.519 ppb	102.008 %	58.111 ppb
Concentration per Run 1	62.481 ppb	56.203 ppb	57.981 ppb	57.736 ppb	98.652 %	61.341 ppb	59.343 ppb	108.226 %	54.913 ppb
Concentration per Run 2	60.625 ppb	57.231 ppb	56.371 ppb	59.781 ppb	95.268 %	63.477 ppb	62.707 ppb	95.622 %	59.763 ppb
Concentration per Run 3	61.510 ppb	60.712 ppb	58.238 ppb	59.802 ppb	98.228 %	62.311 ppb	62.507 ppb	102.175 %	59.655 ppb
Recovery Percentage 1	102.564 %	96.748 %	95.883 %	98.511 %		103.961 %	102.532 %		96.851 %
Concentration RSD	1.5 %	4.1 %	1.8 %	2.0 %	1.9 %	1.7 %	3.1 %	6.2 %	4.8 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	58.524 ppb	107.840 %	106.645 %	62.933 ppb	63.187 ppb
Concentration per Run 1	55.664 ppb	116.305 %	115.243 %	56.767 ppb	59.101 ppb
Concentration per Run 2	59.580 ppb	101.967 %	101.436 %	65.393 ppb	64.823 ppb
Concentration per Run 3	60.329 ppb	105.247 %	103.257 %	66.637 ppb	65.636 ppb
Recovery Percentage 1	97.540 %			104.888 %	105.311 %
Concentration RSD	4.3 %	7.0 %	7.0 %	8.5 %	5.6 %

Alpha ICPMSQ Data with SRD

3/5/2024 5:01:37 AM

Analysis index:	164	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	CCB	Rack	0		
Analysis started at:	3/4/2024 8:07:38 PM	Vial	10		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	70.833 %	100.594 %	0.019 ppb	-11.969 ppb	-0.376 ppb	-2.706 ppb	-7.809 ppb	2.490 ppb	82.920 %
Concentration per Run 1	71.899 %	93.404 %	0.015 ppb	-8.769 ppb	-0.157 ppb	-2.686 ppb	2.019 ppb	4.564 ppb	83.664 %
Concentration per Run 2	70.593 %	109.433 %	0.022 ppb	-14.267 ppb	-0.585 ppb	-2.475 ppb	-17.108 ppb	2.618 ppb	82.224 %
Concentration per Run 3	70.006 %	98.945 %	0.021 ppb	-12.870 ppb	-0.385 ppb	-2.958 ppb	-8.340 ppb	0.288 ppb	82.874 %
Recovery Percentage 1			3.804 %	-11.969 %	-0.537 %	-27.062 %	-7.809 %	2.490 %	
Concentration RSD	1.4 %	8.1 %	20.0 %	23.9 %	56.9 %	8.9 %	122.6 %	86.0 %	0.9 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.023 ppb	-0.002 ppb	-0.013 ppb	13.202 ppb	0.001 ppb	0.004 ppb	-0.011 ppb	0.090 ppb	86.907 %
Concentration per Run 1	-0.005 ppb	0.000 ppb	-0.020 ppb	14.991 ppb	-0.002 ppb	0.012 ppb	-0.013 ppb	0.114 ppb	83.235 %
Concentration per Run 2	-0.043 ppb	-0.012 ppb	-0.010 ppb	13.701 ppb	0.003 ppb	0.013 ppb	-0.003 ppb	0.091 ppb	86.615 %
Concentration per Run 3	-0.022 ppb	0.004 ppb	-0.010 ppb	10.914 ppb	0.003 ppb	-0.013 ppb	-0.017 ppb	0.067 ppb	90.871 %
Recovery Percentage 1	-0.458 %	-0.247 %	-1.339 %	26.404 %	0.280 %	0.189 %	-1.109 %	1.809 %	
Concentration RSD	83.1 %	340.1 %	45.8 %	15.8 %	220.2 %	380.0 %	61.7 %	26.2 %	4.4 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.115 ppb	0.387 ppb	0.002 ppb	0.933 ppb	95.340 %	0.003 ppb	0.011 ppb	94.837 %	0.087 ppb
Concentration per Run 1	0.125 ppb	0.413 ppb	0.005 ppb	0.975 ppb	92.244 %	0.003 ppb	0.013 ppb	91.439 %	0.083 ppb
Concentration per Run 2	0.099 ppb	0.361 ppb	-0.004 ppb	0.919 ppb	96.782 %	0.006 ppb	0.011 ppb	95.742 %	0.077 ppb
Concentration per Run 3	0.121 ppb	0.386 ppb	0.004 ppb	0.906 ppb	96.993 %	0.000 ppb	0.008 ppb	97.330 %	0.101 ppb
Recovery Percentage 1	23.007 %	7.733 %	0.018 %	46.665 %		0.766 %	5.427 %		2.177 %
Concentration RSD	12.3 %	6.7 %	269.8 %	3.9 %	2.8 %	95.8 %	21.0 %	3.2 %	14.6 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	-0.003 ppb	99.349 %	97.849 %	0.483 ppb	0.008 ppb
Concentration per Run 1	-0.005 ppb	95.952 %	93.962 %	0.416 ppb	0.014 ppb
Concentration per Run 2	-0.011 ppb	99.598 %	97.974 %	0.572 ppb	0.007 ppb
Concentration per Run 3	0.005 ppb	102.497 %	101.611 %	0.461 ppb	0.002 ppb
Recovery Percentage 1	-0.673 %			48.297 %	0.754 %
Concentration RSD	241.0 %	3.3 %	3.9 %	16.7 %	77.8 %

Alpha ICPMSQ Data with SRD

3/5/2024 5:01:37 AM

Analysis index:	165	User name	ALPHALAB\Metals-Instrument	Comment	fb
Analysis label:	I2410492-07 6020TL	Rack	2		
Analysis started at:	3/4/2024 8:20:17 PM	Vial	53		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	74.993 %	102.441 %	0.010 ppb	227.323 ppb	8.999 ppb	-1.513 ppb	-5.606 ppb	54.816 ppb	89.369 %
Concentration per Run 1	76.248 %	101.913 %	0.014 ppb	231.762 ppb	9.018 ppb	-1.463 ppb	-6.240 ppb	50.279 ppb	89.885 %
Concentration per Run 2	74.696 %	104.881 %	0.007 ppb	221.958 ppb	9.597 ppb	-1.645 ppb	-5.790 ppb	58.001 ppb	88.986 %
Concentration per Run 3	74.035 %	100.528 %	0.010 ppb	228.249 ppb	8.381 ppb	-1.431 ppb	-4.790 ppb	56.168 ppb	89.237 %
Concentration RSD	1.5 %	2.2 %	34.7 %	2.2 %	6.8 %	7.6 %	13.2 %	7.4 %	0.5 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.024 ppb	0.280 ppb	0.091 ppb	2.882 ppb	0.003 ppb	0.006 ppb	0.191 ppb	0.113 ppb	89.488 %
Concentration per Run 1	-0.015 ppb	0.322 ppb	0.128 ppb	2.988 ppb	0.001 ppb	-0.007 ppb	0.154 ppb	0.095 ppb	90.486 %
Concentration per Run 2	-0.029 ppb	0.273 ppb	0.078 ppb	2.790 ppb	0.001 ppb	0.005 ppb	0.218 ppb	0.117 ppb	89.747 %
Concentration per Run 3	-0.028 ppb	0.244 ppb	0.068 ppb	2.869 ppb	0.005 ppb	0.019 ppb	0.203 ppb	0.127 ppb	88.232 %
Concentration RSD	33.4 %	14.0 %	35.6 %	3.5 %	82.1 %	224.7 %	17.6 %	14.4 %	1.3 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.046 ppb	0.029 ppb	0.183 ppb	0.146 ppb	99.524 %	-0.001 ppb	0.002 ppb	101.153 %	0.037 ppb
Concentration per Run 1	0.033 ppb	-0.021 ppb	0.175 ppb	0.121 ppb	99.571 %	-0.001 ppb	0.001 ppb	101.146 %	0.030 ppb
Concentration per Run 2	0.034 ppb	-0.008 ppb	0.184 ppb	0.167 ppb	100.713 %	-0.001 ppb	0.002 ppb	106.305 %	0.042 ppb
Concentration per Run 3	0.072 ppb	0.117 ppb	0.189 ppb	0.149 ppb	98.287 %	-0.001 ppb	0.002 ppb	96.008 %	0.040 ppb
Concentration RSD	48.3 %	262.0 %	3.9 %	15.8 %	1.2 %	37.8 %	43.1 %	5.1 %	18.0 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	0.353 ppb	102.855 %	101.744 %	0.076 ppb	-0.004 ppb
Concentration per Run 1	0.341 ppb	103.713 %	102.533 %	0.056 ppb	-0.004 ppb
Concentration per Run 2	0.360 ppb	105.332 %	104.642 %	0.086 ppb	-0.003 ppb
Concentration per Run 3	0.358 ppb	99.521 %	98.056 %	0.086 ppb	-0.005 ppb
Concentration RSD	3.0 %	2.9 %	3.3 %	22.8 %	24.0 %

Alpha ICPMSQ Data with SRD

3/5/2024 5:01:37 AM

Analysis index: 166
Analysis label: I2410492-05 6020TL
Analysis started at: 3/4/2024 8:24:58 PM
User name ALPHALAB\Metals-Instrument
Rack 2
Vial 51
Comment <Comment>

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	70.366 %	94.195 %	0.018 ppb	162,215.335 ppb	53,610.382 ppb	45.816 ppb	8,120.540 ppb	88,270.926 ppb	90.528 %
Concentration per Run 1	72.086 %	83.509 %	0.019 ppb	179,171.190 ppb	58,585.822 ppb	50.412 ppb	8,764.902 ppb	94,409.770 ppb	91.977 %
Concentration per Run 2	70.166 %	99.340 %	0.020 ppb	153,273.308 ppb	50,313.088 ppb	44.149 ppb	7,721.733 ppb	85,812.264 ppb	89.700 %
Concentration per Run 3	68.846 %	99.736 %	0.015 ppb	154,201.506 ppb	51,932.235 ppb	42.888 ppb	7,874.984 ppb	84,590.744 ppb	89.909 %
Concentration RSD	2.3 %	9.8 %	14.8 %	9.1 %	8.2 %	8.8 %	6.9 %	6.1 %	1.4 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	1.090 ppb	0.767 ppb	922.887 ppb	760.224 ppb	0.434 ppb	1.810 ppb	0.389 ppb	3.839 ppb	85.928 %
Concentration per Run 1	1.148 ppb	0.789 ppb	947.441 ppb	776.267 ppb	0.493 ppb	1.809 ppb	0.495 ppb	3.910 ppb	87.808 %
Concentration per Run 2	1.101 ppb	0.774 ppb	918.776 ppb	770.617 ppb	0.432 ppb	1.774 ppb	0.408 ppb	3.928 ppb	81.542 %
Concentration per Run 3	1.022 ppb	0.738 ppb	902.444 ppb	733.788 ppb	0.375 ppb	1.847 ppb	0.264 ppb	3.679 ppb	88.434 %
Concentration RSD	5.9 %	3.4 %	2.5 %	3.0 %	13.6 %	2.0 %	30.0 %	3.6 %	4.4 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	2.164 ppb	0.364 ppb	388.154 ppb	2.253 ppb	87.094 %	0.000 ppb	0.010 ppb	91.728 %	0.079 ppb
Concentration per Run 1	2.167 ppb	0.171 ppb	392.923 ppb	2.387 ppb	87.466 %	0.000 ppb	0.009 ppb	92.048 %	0.061 ppb
Concentration per Run 2	2.205 ppb	0.574 ppb	386.309 ppb	2.125 ppb	85.239 %	-0.001 ppb	0.012 ppb	88.007 %	0.078 ppb
Concentration per Run 3	2.120 ppb	0.346 ppb	385.229 ppb	2.246 ppb	88.576 %	0.000 ppb	0.008 ppb	95.128 %	0.098 ppb
Concentration RSD	2.0 %	55.5 %	1.1 %	5.8 %	2.0 %	142.4 %	25.1 %	3.9 %	23.4 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	95.277 ppb	98.306 %	96.756 %	0.054 ppb	1.298 ppb
Concentration per Run 1	94.770 ppb	97.599 %	96.919 %	0.035 ppb	1.315 ppb
Concentration per Run 2	96.123 ppb	97.169 %	93.945 %	0.064 ppb	1.332 ppb
Concentration per Run 3	94.938 ppb	100.152 %	99.405 %	0.063 ppb	1.247 ppb
Concentration RSD	0.8 %	1.6 %	2.8 %	31.3 %	3.5 %

Alpha ICPMSQ Data with SRD

3/5/2024 5:01:37 AM

Analysis index: 167
Analysis label: I2410492-06 6020TL
Analysis started at: 3/4/2024 8:29:38 PM
User name ALPHALAB\Metals-Instrument
Rack 2
Vial 52
Comment <Comment>

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	70.512 %	93.008 %	0.047 ppb	70,732.191 ppb	12,312.853 ppb	345.945 ppb	10,575.567 ppb	137,781.837 ppb	91.211 %
Concentration per Run 1	72.195 %	90.237 %	0.043 ppb	72,764.423 ppb	12,876.273 ppb	370.307 ppb	11,088.154 ppb	139,777.952 ppb	92.279 %
Concentration per Run 2	70.062 %	96.966 %	0.057 ppb	66,908.404 ppb	11,440.484 ppb	314.957 ppb	9,716.871 ppb	127,682.928 ppb	90.830 %
Concentration per Run 3	69.278 %	91.820 %	0.040 ppb	72,523.745 ppb	12,621.802 ppb	352.569 ppb	10,921.678 ppb	145,884.632 ppb	90.524 %
Concentration RSD	2.1 %	3.8 %	19.6 %	4.7 %	6.2 %	8.2 %	7.1 %	6.7 %	1.0 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	1.780 ppb	1.244 ppb	1,501.859 ppb	2,123.730 ppb	4.612 ppb	32.454 ppb	3.792 ppb	27.265 ppb	85.831 %
Concentration per Run 1	1.861 ppb	1.223 ppb	1,545.066 ppb	2,162.685 ppb	4.846 ppb	32.941 ppb	4.036 ppb	27.784 ppb	86.235 %
Concentration per Run 2	1.712 ppb	1.245 ppb	1,421.668 ppb	2,046.609 ppb	4.548 ppb	32.476 ppb	3.554 ppb	26.541 ppb	84.966 %
Concentration per Run 3	1.766 ppb	1.263 ppb	1,538.841 ppb	2,161.897 ppb	4.442 ppb	31.943 ppb	3.785 ppb	27.470 ppb	86.293 %
Concentration RSD	4.2 %	1.6 %	4.6 %	3.1 %	4.5 %	1.5 %	6.4 %	2.4 %	0.9 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	1.631 ppb	1.205 ppb	460.477 ppb	4.257 ppb	88.176 %	0.017 ppb	0.116 ppb	93.263 %	0.280 ppb
Concentration per Run 1	1.682 ppb	1.104 ppb	474.551 ppb	4.227 ppb	85.692 %	0.015 ppb	0.122 ppb	92.289 %	0.284 ppb
Concentration per Run 2	1.560 ppb	1.359 ppb	436.624 ppb	4.308 ppb	87.543 %	0.021 ppb	0.107 ppb	90.242 %	0.280 ppb
Concentration per Run 3	1.651 ppb	1.152 ppb	470.256 ppb	4.238 ppb	91.294 %	0.015 ppb	0.119 ppb	97.258 %	0.276 ppb
Concentration RSD	3.9 %	11.2 %	4.5 %	1.0 %	3.2 %	20.0 %	7.1 %	3.9 %	1.5 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	65.268 ppb	99.940 %	99.319 %	0.065 ppb	11.033 ppb
Concentration per Run 1	66.787 ppb	96.732 %	97.715 %	0.049 ppb	11.240 ppb
Concentration per Run 2	64.346 ppb	96.676 %	96.266 %	0.071 ppb	11.160 ppb
Concentration per Run 3	64.670 ppb	106.413 %	103.975 %	0.075 ppb	10.699 ppb
Concentration RSD	2.0 %	5.6 %	4.1 %	21.9 %	2.6 %

Alpha ICPMSQ Data with SRD

3/5/2024 5:01:37 AM

Analysis index:	168	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	CCV	Rack	0		
Analysis started at:	3/4/2024 8:37:51 PM	Vial	9		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	71.348 %	98.219 %	63.661 ppb	5,966.843 ppb	5,948.902 ppb	61.270 ppb	5,874.388 ppb	5,822.994 ppb	96.943 %
Concentration per Run 1	71.936 %	107.058 %	63.421 ppb	5,896.945 ppb	5,868.803 ppb	55.849 ppb	5,760.285 ppb	5,881.909 ppb	97.481 %
Concentration per Run 2	71.969 %	95.976 %	63.721 ppb	5,934.832 ppb	5,897.635 ppb	60.426 ppb	5,983.436 ppb	5,781.157 ppb	96.648 %
Concentration per Run 3	70.139 %	91.623 %	63.842 ppb	6,068.753 ppb	6,080.269 ppb	67.535 ppb	5,879.442 ppb	5,805.917 ppb	96.701 %
Recovery Percentage 1			106.102 %	99.447 %	99.148 %	102.116 %	97.906 %	97.050 %	
Concentration RSD	1.5 %	8.1 %	0.3 %	1.5 %	1.9 %	9.6 %	1.9 %	0.9 %	0.5 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	58.557 ppb	58.896 ppb	61.486 ppb	6,157.108 ppb	62.195 ppb	63.114 ppb	63.007 ppb	65.479 ppb	91.659 %
Concentration per Run 1	57.851 ppb	56.909 ppb	59.918 ppb	5,944.367 ppb	60.040 ppb	60.731 ppb	60.513 ppb	64.176 ppb	96.802 %
Concentration per Run 2	58.828 ppb	60.435 ppb	62.260 ppb	6,299.310 ppb	64.558 ppb	66.458 ppb	65.918 ppb	66.879 ppb	88.448 %
Concentration per Run 3	58.994 ppb	59.343 ppb	62.280 ppb	6,227.645 ppb	61.988 ppb	62.153 ppb	62.589 ppb	65.382 ppb	89.727 %
Recovery Percentage 1	97.596 %	98.160 %	102.477 %	102.618 %	103.659 %	105.190 %	105.011 %	109.132 %	
Concentration RSD	1.1 %	3.1 %	2.2 %	3.0 %	3.6 %	4.7 %	4.3 %	2.1 %	4.9 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	61.432 ppb	61.555 ppb	60.158 ppb	59.734 ppb	95.761 %	62.868 ppb	62.795 ppb	100.740 %	60.838 ppb
Concentration per Run 1	60.888 ppb	61.498 ppb	62.591 ppb	58.150 ppb	98.353 %	62.472 ppb	63.064 ppb	106.017 %	59.748 ppb
Concentration per Run 2	62.524 ppb	61.609 ppb	59.536 ppb	60.161 ppb	94.332 %	63.773 ppb	62.950 ppb	96.725 %	62.224 ppb
Concentration per Run 3	60.884 ppb	61.558 ppb	58.347 ppb	60.892 ppb	94.598 %	62.359 ppb	62.370 ppb	99.478 %	60.544 ppb
Recovery Percentage 1	102.387 %	102.592 %	100.263 %	99.557 %		104.781 %	104.658 %		101.397 %
Concentration RSD	1.5 %	0.1 %	3.6 %	2.4 %	2.3 %	1.2 %	0.6 %	4.7 %	2.1 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	61.919 ppb	104.562 %	104.174 %	64.260 ppb	64.242 ppb
Concentration per Run 1	63.225 ppb	108.086 %	110.548 %	59.585 ppb	61.116 ppb
Concentration per Run 2	61.943 ppb	102.733 %	101.389 %	65.992 ppb	65.784 ppb
Concentration per Run 3	60.589 ppb	102.866 %	100.585 %	67.204 ppb	65.825 ppb
Recovery Percentage 1	103.198 %			107.100 %	107.069 %
Concentration RSD	2.1 %	2.9 %	5.3 %	6.4 %	4.2 %

Alpha ICPMSQ Data with SRD

3/5/2024 5:01:37 AM

Analysis index: 169
Analysis label: CCB
Analysis started at: 3/4/2024 8:42:34 PM
User name ALPHALAB\Metals-Instrument
Rack 0
Vial 10
Comment <Comment>

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	68.611 %	98.219 %	0.018 ppb	-9.607 ppb	-0.047 ppb	-2.662 ppb	-5.729 ppb	0.412 ppb	84.906 %
Concentration per Run 1	67.487 %	101.517 %	0.020 ppb	-10.254 ppb	0.205 ppb	-2.887 ppb	-8.884 ppb	0.309 ppb	85.246 %
Concentration per Run 2	69.517 %	94.789 %	0.017 ppb	-10.015 ppb	-0.166 ppb	-2.380 ppb	-5.219 ppb	-0.697 ppb	85.199 %
Concentration per Run 3	68.827 %	98.351 %	0.018 ppb	-8.551 ppb	-0.180 ppb	-2.720 ppb	-3.085 ppb	1.624 ppb	84.274 %
Recovery Percentage 1			3.636 %	-9.607 %	-0.067 %	-26.622 %	-5.729 %	0.412 %	
Concentration RSD	1.5 %	3.4 %	9.5 %	9.6 %	463.5 %	9.7 %	51.2 %	282.6 %	0.6 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.026 ppb	-0.014 ppb	0.017 ppb	13.127 ppb	0.000 ppb	0.018 ppb	-0.001 ppb	0.077 ppb	87.911 %
Concentration per Run 1	-0.028 ppb	-0.003 ppb	-0.010 ppb	13.735 ppb	0.001 ppb	0.031 ppb	0.012 ppb	0.048 ppb	88.964 %
Concentration per Run 2	-0.021 ppb	-0.013 ppb	0.045 ppb	13.070 ppb	-0.002 ppb	0.028 ppb	-0.015 ppb	0.089 ppb	86.645 %
Concentration per Run 3	-0.028 ppb	-0.027 ppb	0.017 ppb	12.574 ppb	0.001 ppb	-0.005 ppb	0.001 ppb	0.093 ppb	88.124 %
Recovery Percentage 1	-0.515 %	-1.422 %	1.743 %	26.253 %	0.049 %	0.894 %	-0.065 %	1.538 %	
Concentration RSD	17.6 %	87.9 %	156.6 %	4.4 %	858.7 %	111.9 %	2,062.7 %	32.5 %	1.3 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.092 ppb	0.347 ppb	0.001 ppb	0.817 ppb	96.907 %	0.003 ppb	0.004 ppb	99.365 %	0.066 ppb
Concentration per Run 1	0.087 ppb	0.376 ppb	0.002 ppb	0.780 ppb	96.767 %	0.005 ppb	0.003 ppb	98.061 %	0.056 ppb
Concentration per Run 2	0.090 ppb	0.261 ppb	-0.003 ppb	0.818 ppb	95.750 %	0.002 ppb	0.007 ppb	100.219 %	0.068 ppb
Concentration per Run 3	0.098 ppb	0.403 ppb	0.003 ppb	0.854 ppb	98.203 %	0.001 ppb	0.002 ppb	99.815 %	0.074 ppb
Recovery Percentage 1	18.315 %	6.937 %	0.006 %	40.847 %		0.668 %	2.092 %		1.656 %
Concentration RSD	6.1 %	21.8 %	542.6 %	4.5 %	1.3 %	78.1 %	61.8 %	1.2 %	14.1 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	0.003 ppb	101.689 %	100.206 %	0.457 ppb	0.006 ppb
Concentration per Run 1	-0.006 ppb	103.005 %	100.522 %	0.394 ppb	0.011 ppb
Concentration per Run 2	0.000 ppb	99.386 %	97.530 %	0.547 ppb	0.005 ppb
Concentration per Run 3	0.016 ppb	102.675 %	102.566 %	0.428 ppb	0.001 ppb
Recovery Percentage 1	0.676 %			45.656 %	0.578 %
Concentration RSD	325.2 %	2.0 %	2.5 %	17.6 %	86.4 %

Alpha ICPMSQ Data with SRD

3/5/2024 5:01:37 AM

Analysis index:	170	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	WG1891325-2d10 6020SL	Rack	2		
Analysis started at:	3/4/2024 9:07:10 PM	Vial	26		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	76.074 %	97.361 %	5.373 ppb	981.278 ppb	975.685 ppb	204.383 ppb	971.248 ppb	870.638 ppb	90.044 %
Concentration per Run 1	77.455 %	98.549 %	5.357 ppb	943.670 ppb	975.409 ppb	200.117 ppb	965.157 ppb	853.408 ppb	89.849 %
Concentration per Run 2	76.584 %	95.580 %	5.333 ppb	998.392 ppb	982.147 ppb	210.508 ppb	961.138 ppb	934.525 ppb	90.840 %
Concentration per Run 3	74.183 %	97.955 %	5.429 ppb	1,001.771 ppb	969.499 ppb	202.525 ppb	987.448 ppb	823.980 ppb	89.442 %
Concentration RSD	2.2 %	1.6 %	0.9 %	3.3 %	0.6 %	2.7 %	1.5 %	6.6 %	0.8 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	47.866 ppb	19.494 ppb	50.269 ppb	145.030 ppb	51.429 ppb	51.957 ppb	26.150 ppb	49.435 ppb	93.331 %
Concentration per Run 1	47.913 ppb	19.823 ppb	52.033 ppb	146.116 ppb	52.191 ppb	53.412 ppb	26.809 ppb	48.894 ppb	92.347 %
Concentration per Run 2	47.011 ppb	19.438 ppb	48.349 ppb	149.253 ppb	51.774 ppb	51.543 ppb	26.156 ppb	50.495 ppb	92.629 %
Concentration per Run 3	48.674 ppb	19.222 ppb	50.425 ppb	139.722 ppb	50.323 ppb	50.917 ppb	25.485 ppb	48.916 ppb	95.017 %
Concentration RSD	1.7 %	1.6 %	3.7 %	3.3 %	1.9 %	2.5 %	2.5 %	1.9 %	1.6 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	12.267 ppb	11.754 ppb	93.797 ppb	100.478 ppb	96.772 %	5.146 ppb	5.569 ppb	100.141 %	41.391 ppb
Concentration per Run 1	12.600 ppb	11.084 ppb	94.826 ppb	103.173 ppb	95.030 %	5.390 ppb	5.868 ppb	97.964 %	41.601 ppb
Concentration per Run 2	12.110 ppb	12.815 ppb	93.128 ppb	100.168 ppb	97.070 %	5.122 ppb	5.353 ppb	99.450 %	41.825 ppb
Concentration per Run 3	12.090 ppb	11.362 ppb	93.437 ppb	98.092 ppb	98.217 %	4.928 ppb	5.486 ppb	103.010 %	40.747 ppb
Concentration RSD	2.4 %	7.9 %	1.0 %	2.5 %	1.7 %	4.5 %	4.8 %	2.6 %	1.4 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	207.172 ppb	103.015 %	102.920 %	12.652 ppb	57.568 ppb
Concentration per Run 1	213.752 ppb	100.375 %	101.173 %	13.010 ppb	58.940 ppb
Concentration per Run 2	207.028 ppb	103.831 %	102.310 %	12.640 ppb	56.792 ppb
Concentration per Run 3	200.734 ppb	104.838 %	105.275 %	12.306 ppb	56.971 ppb
Concentration RSD	3.1 %	2.3 %	2.1 %	2.8 %	2.1 %

Alpha ICPMSQ Data with SRD

3/5/2024 5:01:37 AM

Analysis index:	171	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	CCV	Rack	0		
Analysis started at:	3/4/2024 9:15:32 PM	Vial	9		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	74.123 %	99.604 %	63.459 ppb	5,790.808 ppb	5,818.499 ppb	56.427 ppb	5,823.152 ppb	5,768.734 ppb	95.377 %
Concentration per Run 1	75.685 %	98.153 %	63.220 ppb	5,954.623 ppb	5,983.521 ppb	60.904 ppb	5,898.167 ppb	5,753.647 ppb	96.207 %
Concentration per Run 2	73.669 %	94.789 %	63.263 ppb	5,894.350 ppb	6,021.671 ppb	55.699 ppb	5,872.306 ppb	5,920.680 ppb	95.277 %
Concentration per Run 3	73.016 %	105.871 %	63.895 ppb	5,523.452 ppb	5,450.304 ppb	52.679 ppb	5,698.983 ppb	5,631.875 ppb	94.648 %
Recovery Percentage 1			105.765 %	96.513 %	96.975 %	94.045 %	97.053 %	96.146 %	
Concentration RSD	1.9 %	5.7 %	0.6 %	4.0 %	5.5 %	7.4 %	1.9 %	2.5 %	0.8 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	59.914 ppb	60.465 ppb	59.746 ppb	6,153.635 ppb	63.048 ppb	62.342 ppb	64.747 ppb	66.880 ppb	88.635 %
Concentration per Run 1	62.927 ppb	62.501 ppb	63.083 ppb	6,479.961 ppb	66.368 ppb	65.084 ppb	67.926 ppb	69.893 ppb	85.419 %
Concentration per Run 2	59.405 ppb	60.020 ppb	57.241 ppb	5,956.385 ppb	60.879 ppb	60.471 ppb	62.698 ppb	64.828 ppb	91.471 %
Concentration per Run 3	57.408 ppb	58.875 ppb	58.914 ppb	6,024.558 ppb	61.896 ppb	61.470 ppb	63.617 ppb	65.918 ppb	89.014 %
Recovery Percentage 1	99.856 %	100.775 %	99.577 %	102.561 %	105.080 %	103.903 %	107.911 %	111.466 %	
Concentration RSD	4.7 %	3.1 %	5.0 %	4.6 %	4.6 %	3.9 %	4.3 %	4.0 %	3.4 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	63.510 ppb	62.227 ppb	59.438 ppb	62.100 ppb	95.435 %	64.385 ppb	64.629 ppb	96.200 %	63.955 ppb
Concentration per Run 1	66.443 ppb	65.338 ppb	61.252 ppb	63.838 ppb	93.139 %	67.610 ppb	67.274 ppb	92.632 %	66.255 ppb
Concentration per Run 2	61.807 ppb	60.442 ppb	58.198 ppb	59.897 ppb	96.772 %	63.172 ppb	62.620 ppb	96.699 %	64.105 ppb
Concentration per Run 3	62.281 ppb	60.903 ppb	58.864 ppb	62.563 ppb	96.396 %	62.372 ppb	63.994 ppb	99.270 %	61.504 ppb
Recovery Percentage 1	105.851 %	103.712 %	99.063 %	103.499 %		107.308 %	107.715 %		106.591 %
Concentration RSD	4.0 %	4.3 %	2.7 %	3.2 %	2.1 %	4.4 %	3.7 %	3.5 %	3.7 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	64.380 ppb	101.371 %	99.650 %	67.362 ppb	66.924 ppb
Concentration per Run 1	67.014 ppb	97.069 %	94.197 %	71.163 ppb	70.791 ppb
Concentration per Run 2	65.008 ppb	103.672 %	101.931 %	65.378 ppb	65.137 ppb
Concentration per Run 3	61.119 ppb	103.372 %	102.822 %	65.544 ppb	64.844 ppb
Recovery Percentage 1	107.300 %			112.270 %	111.540 %
Concentration RSD	4.7 %	3.7 %	4.8 %	4.9 %	5.0 %

Alpha ICPMSQ Data with SRD

3/5/2024 5:01:37 AM

Analysis index: 172
Analysis label: CCB
Analysis started at: 3/4/2024 9:20:15 PM
User name ALPHALAB\Metals-Instrument
Rack 0
Vial 10
Comment <Comment>

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	71.585 %	93.008 %	0.014 ppb	-12.080 ppb	-0.092 ppb	-2.937 ppb	-7.824 ppb	3.482 ppb	83.222 %
Concentration per Run 1	71.262 %	93.601 %	0.017 ppb	-11.675 ppb	-0.585 ppb	-3.260 ppb	-1.191 ppb	6.875 ppb	82.724 %
Concentration per Run 2	72.026 %	95.185 %	0.011 ppb	-12.520 ppb	0.248 ppb	-2.783 ppb	-11.577 ppb	1.738 ppb	83.185 %
Concentration per Run 3	71.467 %	90.237 %	0.015 ppb	-12.045 ppb	0.061 ppb	-2.766 ppb	-10.704 ppb	1.832 ppb	83.756 %
Recovery Percentage 1			2.866 %	-12.080 %	-0.131 %	-29.367 %	-7.824 %	3.482 %	
Concentration RSD	0.6 %	2.7 %	21.4 %	3.5 %	474.7 %	9.6 %	73.6 %	84.4 %	0.6 %

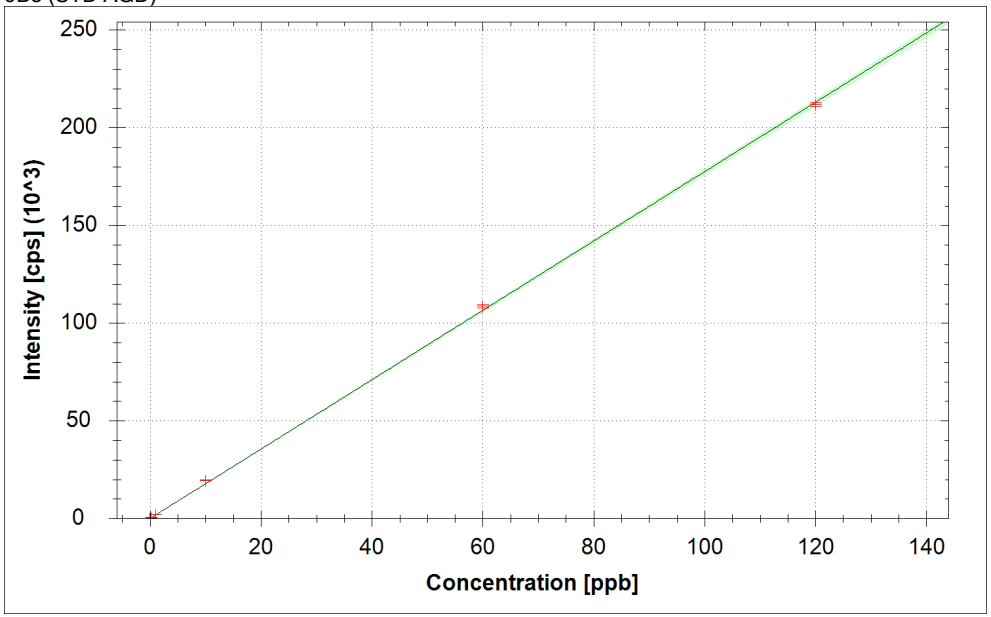
Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.021 ppb	-0.007 ppb	0.005 ppb	11.428 ppb	0.002 ppb	0.014 ppb	-0.004 ppb	0.099 ppb	88.195 %
Concentration per Run 1	-0.021 ppb	-0.015 ppb	0.005 ppb	13.196 ppb	0.002 ppb	-0.004 ppb	-0.003 ppb	0.134 ppb	87.707 %
Concentration per Run 2	-0.021 ppb	-0.004 ppb	0.005 ppb	10.971 ppb	0.002 ppb	0.027 ppb	-0.011 ppb	0.050 ppb	87.328 %
Concentration per Run 3	-0.021 ppb	-0.001 ppb	0.005 ppb	10.118 ppb	0.001 ppb	0.020 ppb	0.001 ppb	0.114 ppb	89.551 %
Recovery Percentage 1	-0.412 %	-0.662 %	0.481 %	22.856 %	0.304 %	0.723 %	-0.435 %	1.982 %	
Concentration RSD	0.2 %	114.4 %	2.4 %	13.9 %	1.0 %	114.7 %	136.4 %	44.4 %	1.3 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.109 ppb	0.362 ppb	0.002 ppb	1.057 ppb	93.639 %	0.003 ppb	0.006 ppb	95.775 %	0.572 ppb
Concentration per Run 1	0.142 ppb	0.251 ppb	0.000 ppb	1.019 ppb	91.734 %	0.004 ppb	0.007 ppb	95.097 %	0.558 ppb
Concentration per Run 2	0.071 ppb	0.446 ppb	0.004 ppb	1.022 ppb	95.256 %	0.001 ppb	0.005 ppb	95.434 %	0.582 ppb
Concentration per Run 3	0.114 ppb	0.390 ppb	0.000 ppb	1.128 ppb	93.927 %	0.004 ppb	0.006 ppb	96.793 %	0.577 ppb
Recovery Percentage 1	21.819 %	7.246 %	0.017 %	52.829 %		0.721 %	3.039 %		14.308 %
Concentration RSD	32.7 %	27.6 %	136.1 %	5.9 %	1.9 %	49.7 %	22.1 %	0.9 %	2.3 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	0.002 ppb	98.787 %	97.735 %	0.456 ppb	0.008 ppb
Concentration per Run 1	0.012 ppb	96.853 %	96.018 %	0.399 ppb	0.012 ppb
Concentration per Run 2	0.000 ppb	100.608 %	98.468 %	0.535 ppb	0.007 ppb
Concentration per Run 3	-0.005 ppb	98.899 %	98.720 %	0.433 ppb	0.004 ppb
Recovery Percentage 1	0.458 %			45.565 %	0.762 %
Concentration RSD	379.5 %	1.9 %	1.5 %	15.6 %	58.1 %

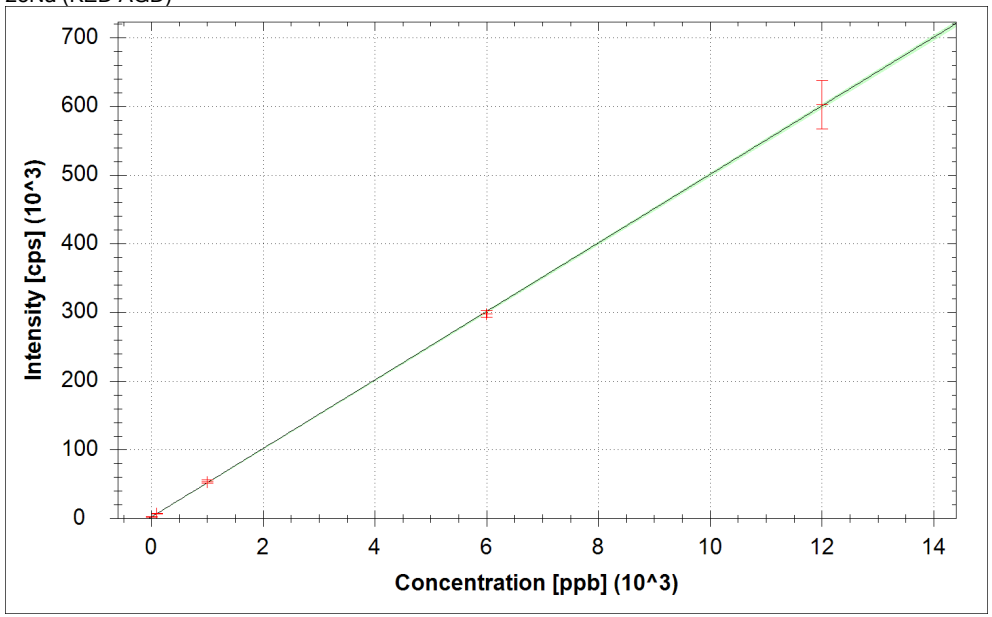
Calibration Curves:

9Be (STD AGD)



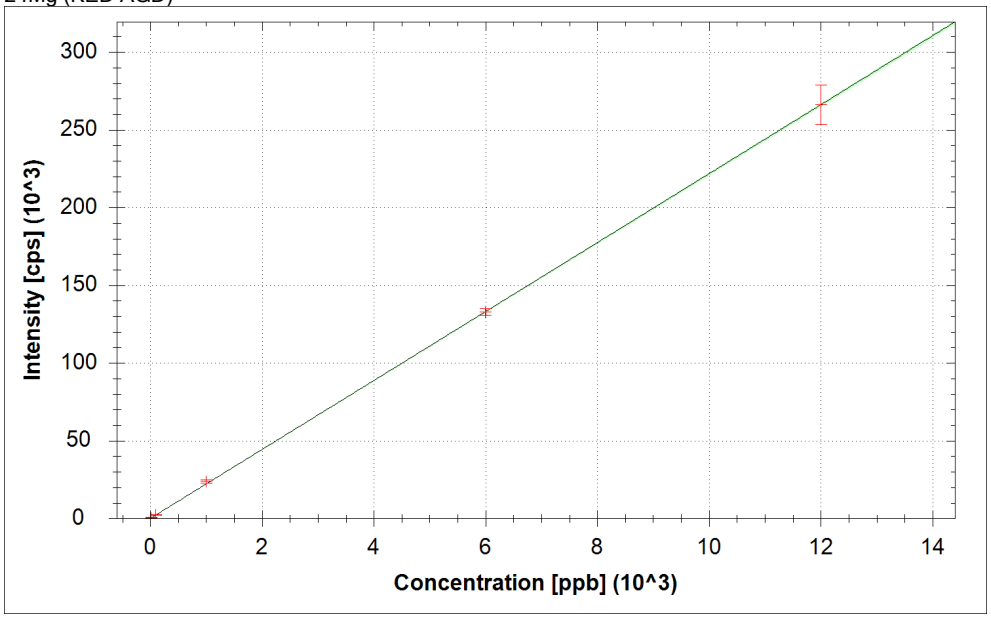
f(x) = 1774.5175*x + 8.4332
R² = 0.9998
BEC = 0.005 ppb
LoD = 0.0068 ppb

23Na (KED AGD)



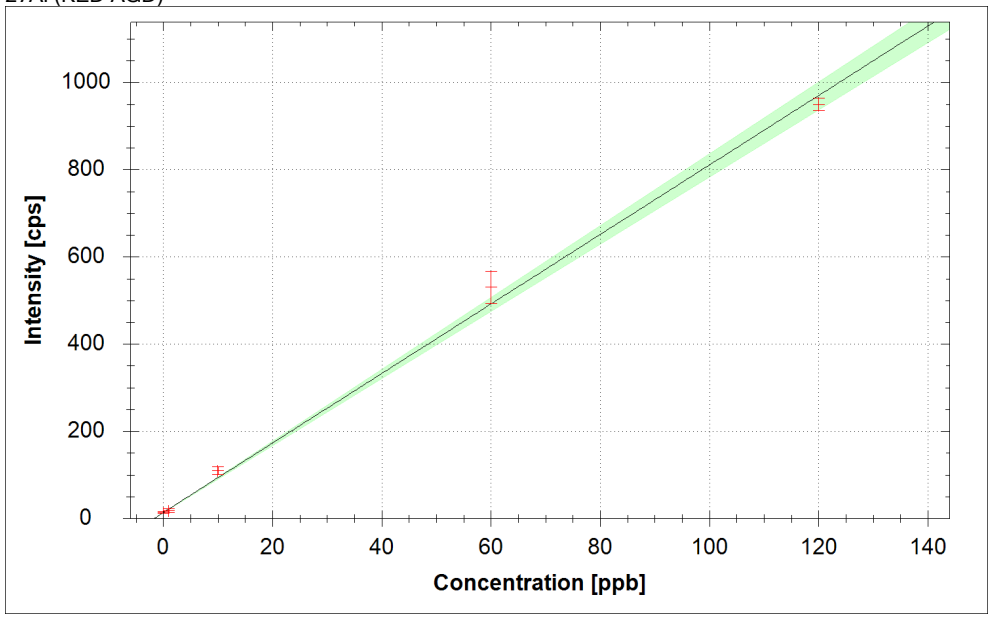
f(x) = 49.8676*x + 2085.5545
R² = 0.9999
BEC = 41.822 ppb
LoD = 11.6700 ppb

24Mg (KED AGD)



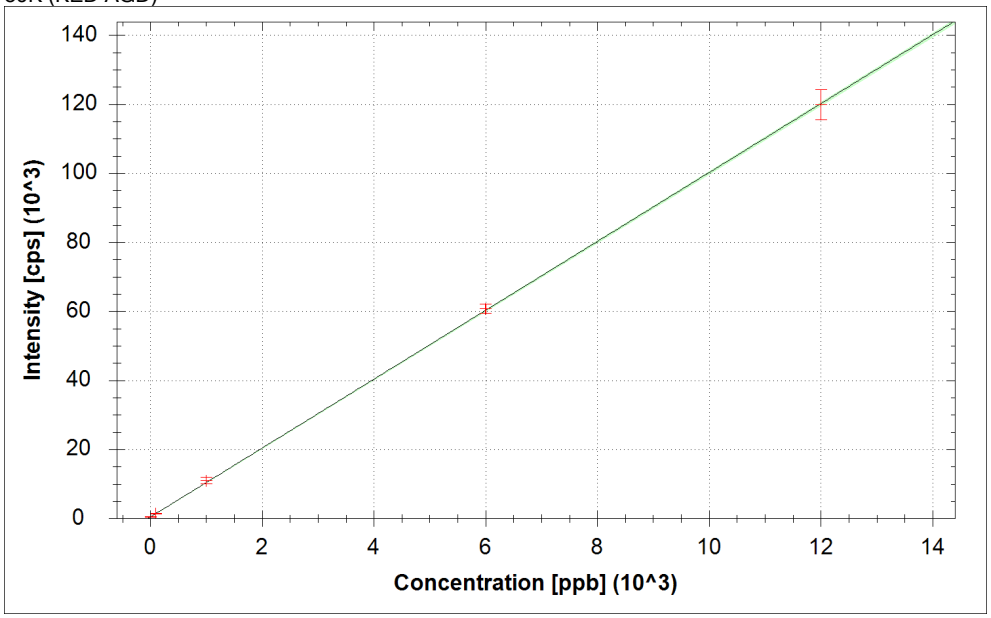
f(x) = 22.1714*x + 29.5962
R² = 1.0000
BEC = 1.335 ppb
LoD = 1.6451 ppb

27Al (KED AGD)



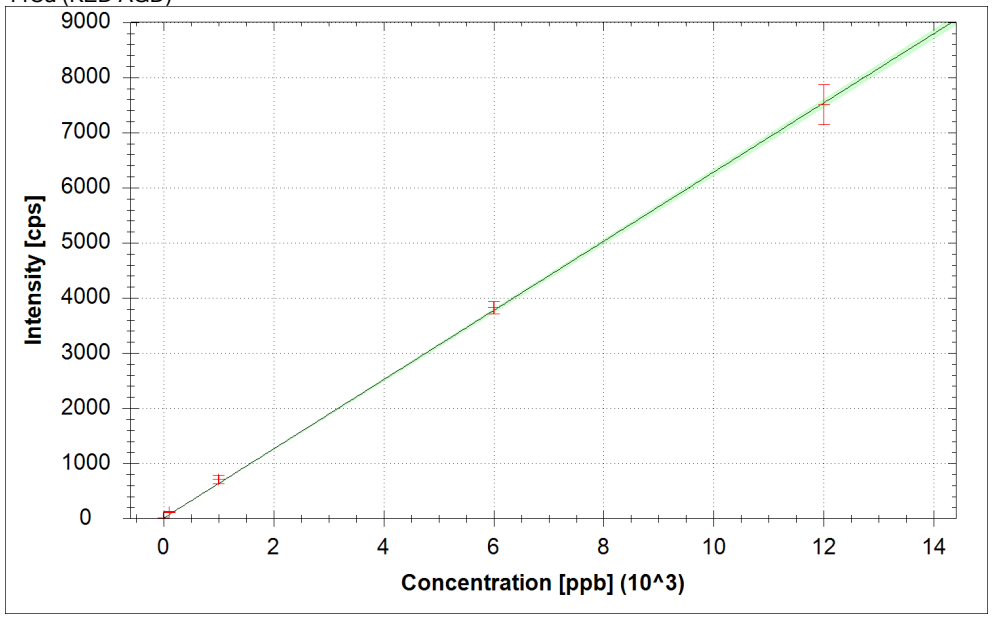
f(x) = 7.9665*x + 13.5193
R² = 0.9967
BEC = 1.697 ppb
LoD = 0.9432 ppb

39K (KED AGD)



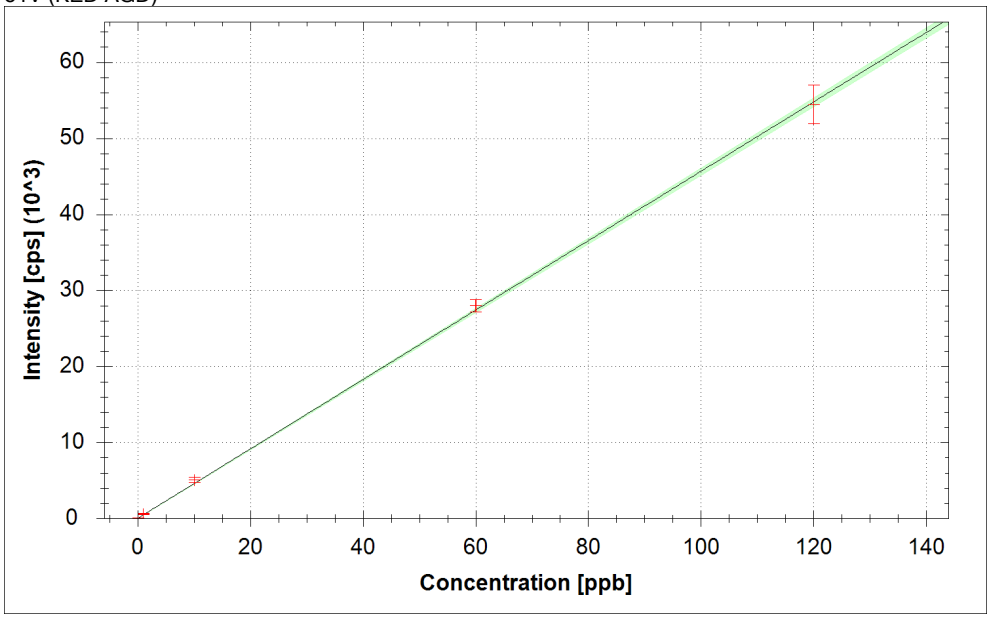
f(x) = 9.9747*x + 421.2549
R² = 0.9999
BEC = 42.232 ppb
LoD = 6.5155 ppb

44Ca (KED AGD)



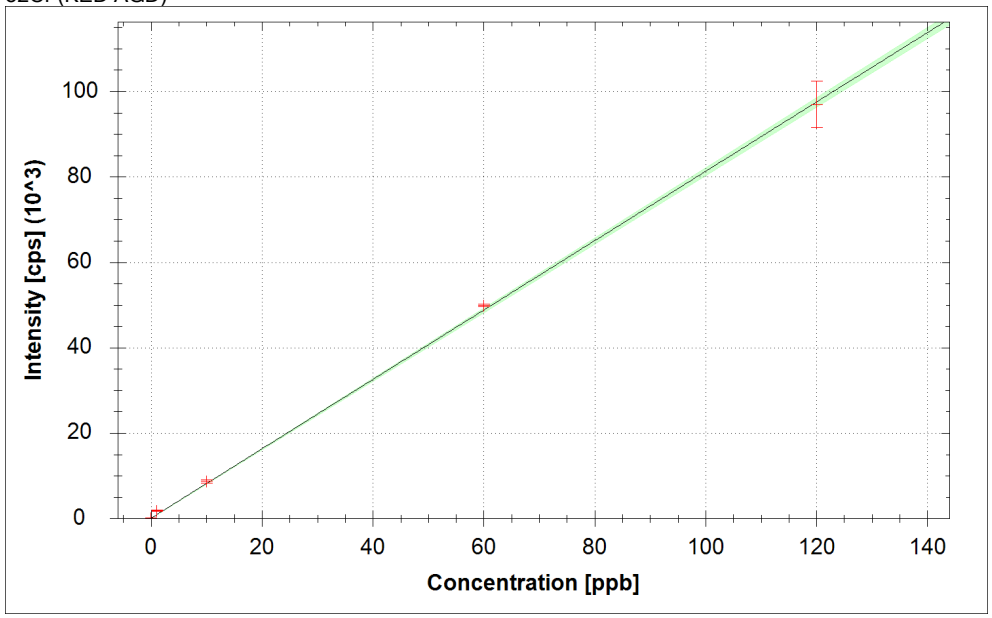
f(x) = 0.6278*x + 4.8017
R² = 0.9997
BEC = 7.649 ppb
LoD = 21.5168 ppb

51V (KED AGD)



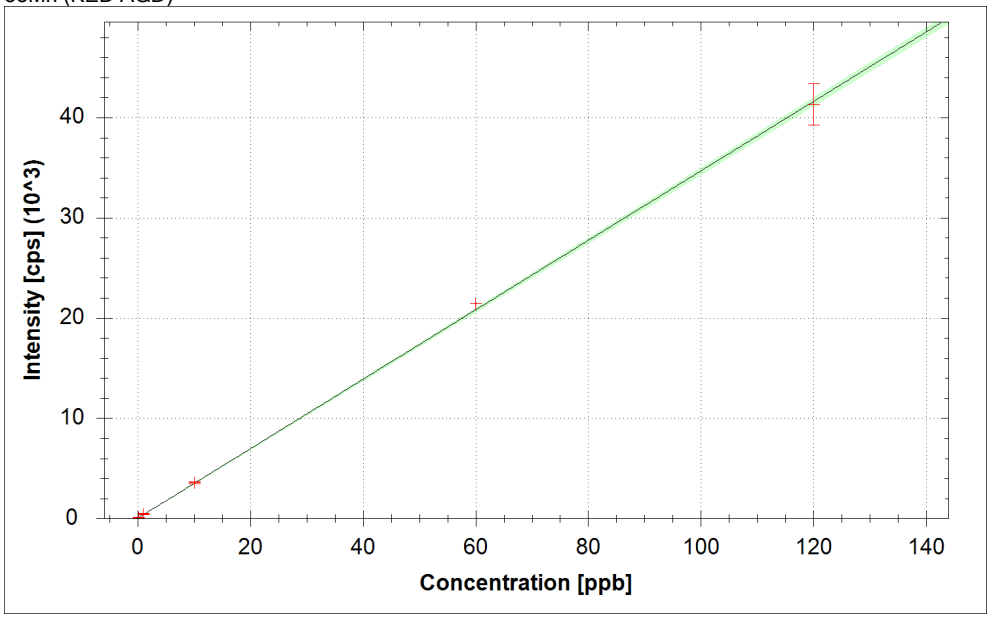
f(x) = 456.0987*x + 28.4136
R² = 0.9997
BEC = 0.062 ppb
LoD = 0.0973 ppb

52Cr (KED AGD)



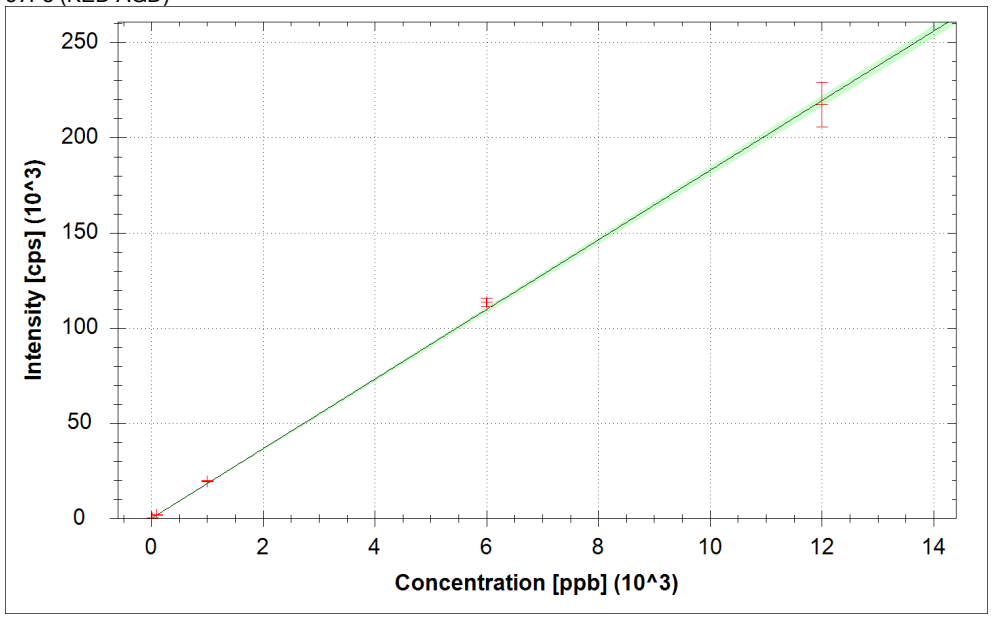
f(x) = 811.9181*x + 62.1862
R² = 0.9996
BEC = 0.077 ppb
LoD = 0.0403 ppb

55Mn (KED AGD)



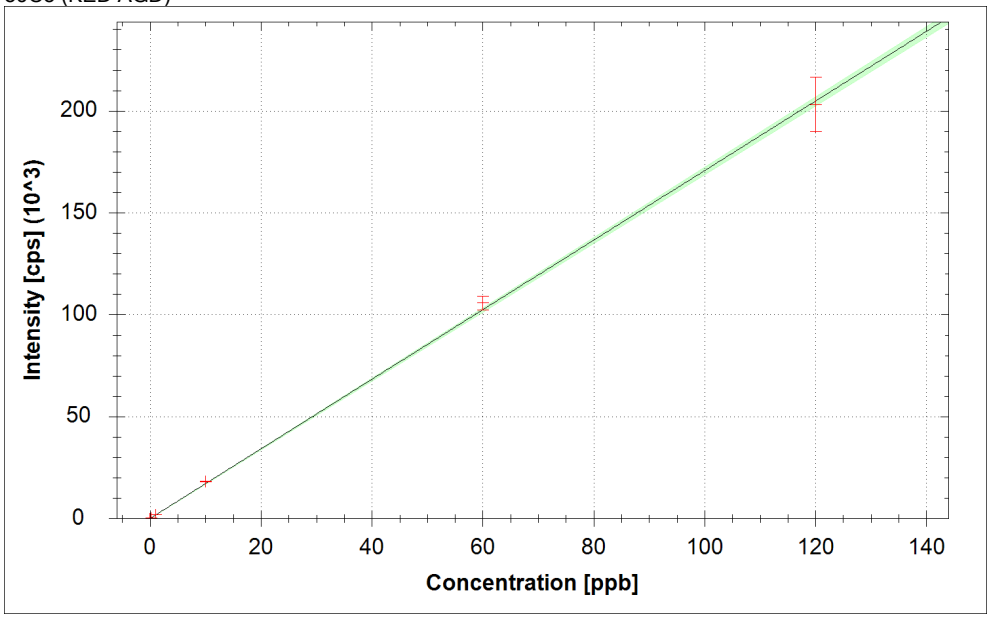
f(x) = 346.3791*x + 33.4922
R² = 0.9997
BEC = 0.097 ppb
LoD = 0.1039 ppb

57Fe (KED AGD)



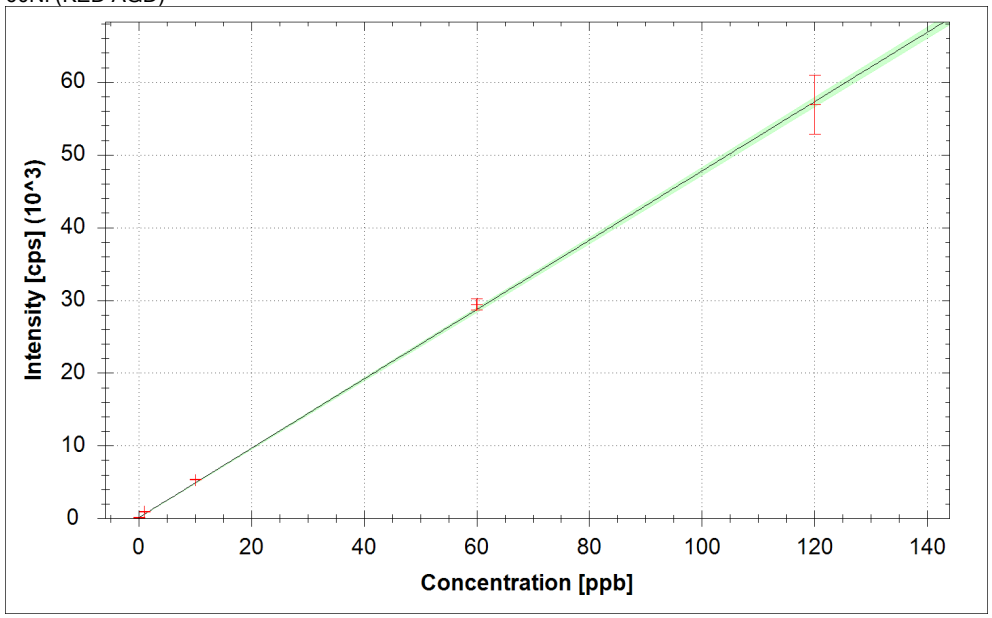
f(x) = 18.2737*x + 13.6650
R² = 0.9995
BEC = 0.748 ppb
LoD = 1.2390 ppb

59Co (KED AGD)



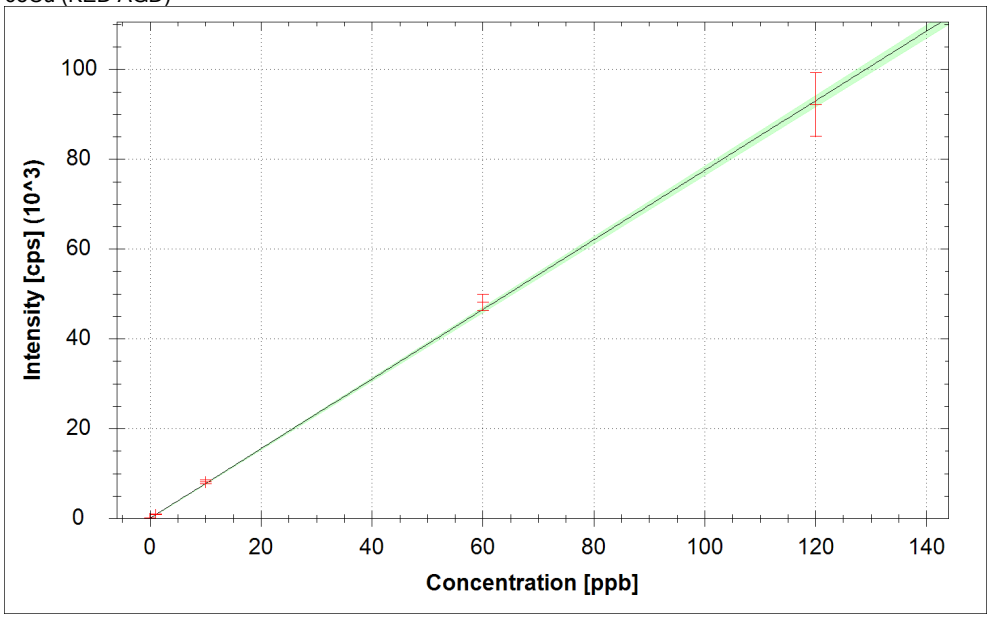
f(x) = 1706.2677*x + 11.1329
R² = 0.9996
BEC = 0.007 ppb
LoD = 0.0069 ppb

60Ni (KED AGD)



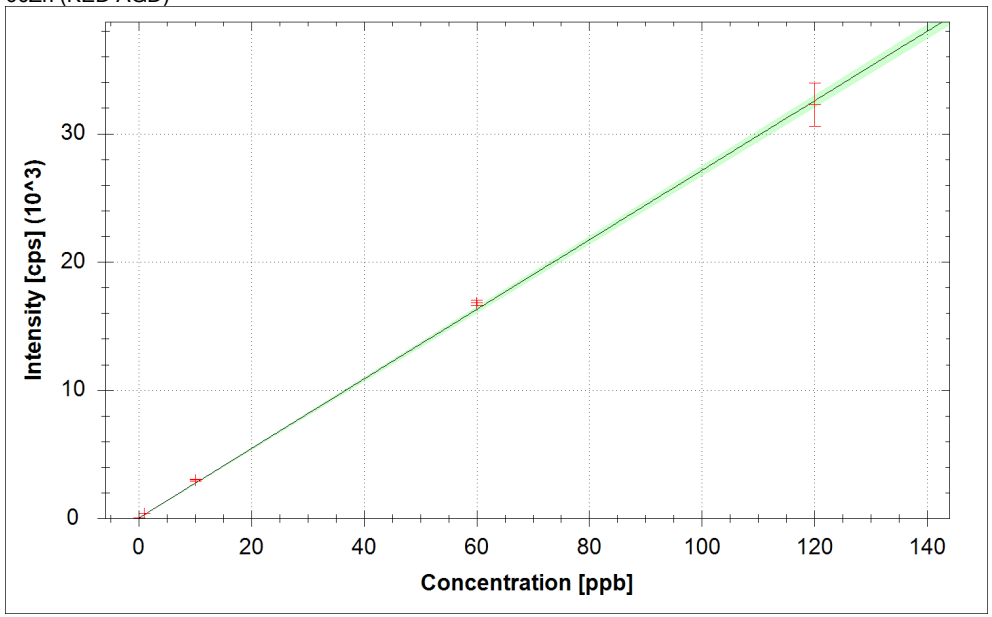
f(x) = 476.3646*x + 116.7672
R² = 0.9996
BEC = 0.245 ppb
LoD = 0.3269 ppb

65Cu (KED AGD)



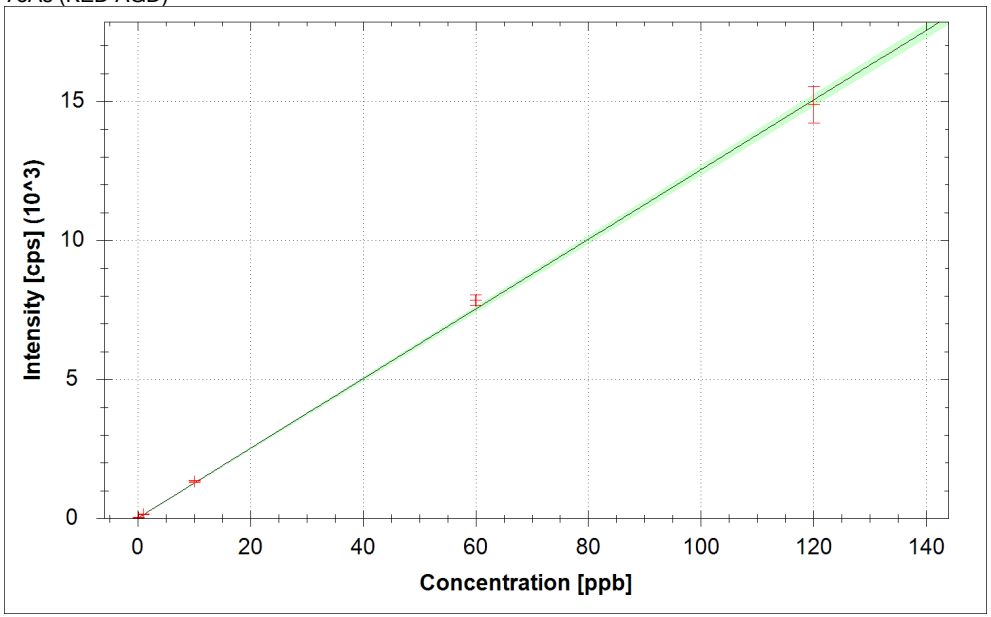
f(x) = 774.2568*x + 28.7123
R² = 0.9995
BEC = 0.037 ppb
LoD = 0.0347 ppb

66Zn (KED AGD)



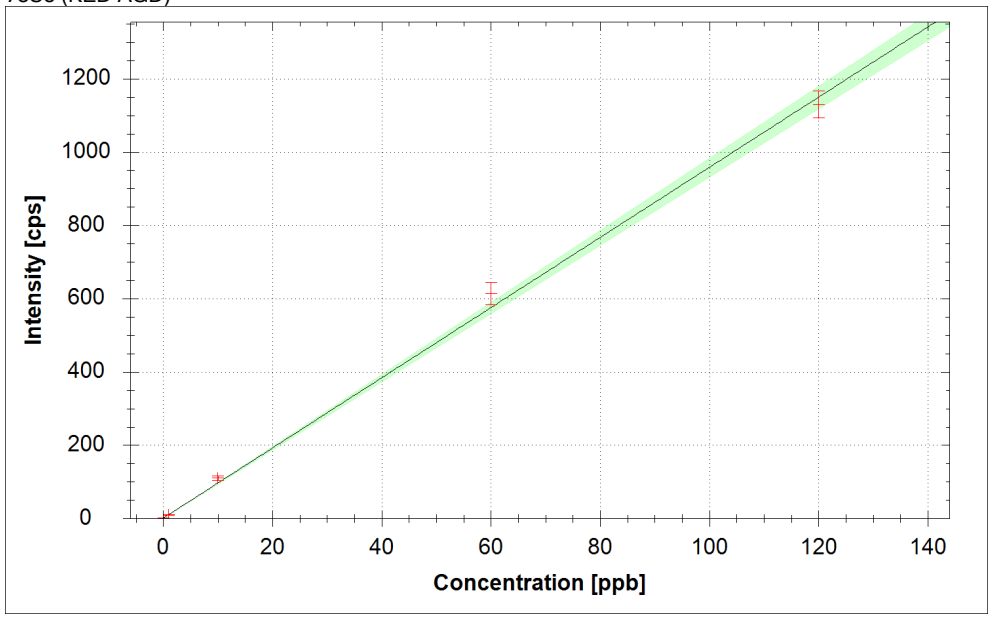
f(x) = 271.0394*x + 30.2454
R² = 0.9994
BEC = 0.112 ppb
LoD = 0.0605 ppb

75As (KED AGD)



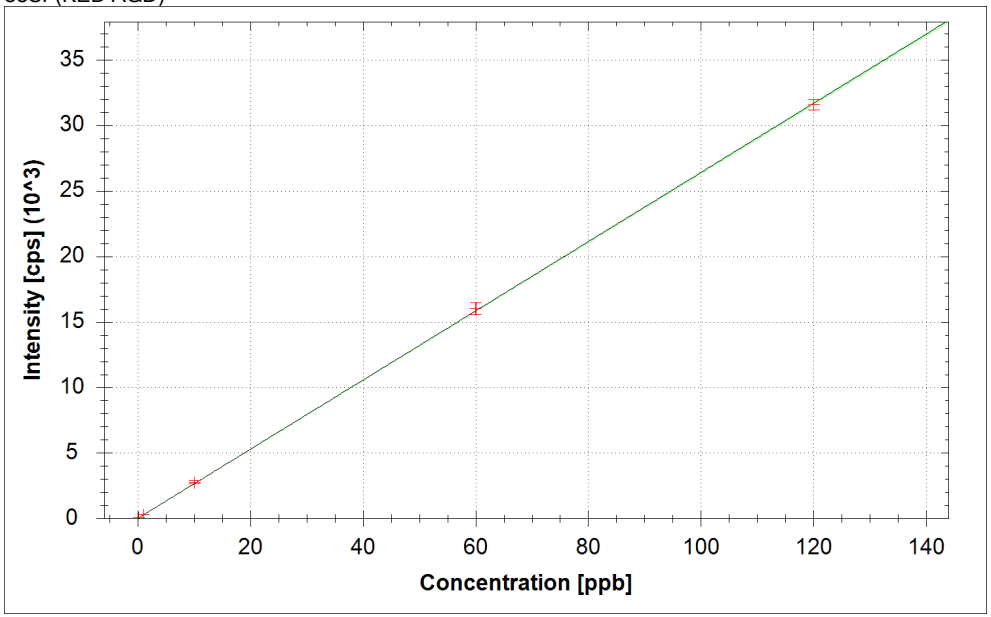
f(x) = 125.2091*x + 15.2462
R² = 0.9993
BEC = 0.122 ppb
LoD = 0.0261 ppb

78Se (KED AGD)



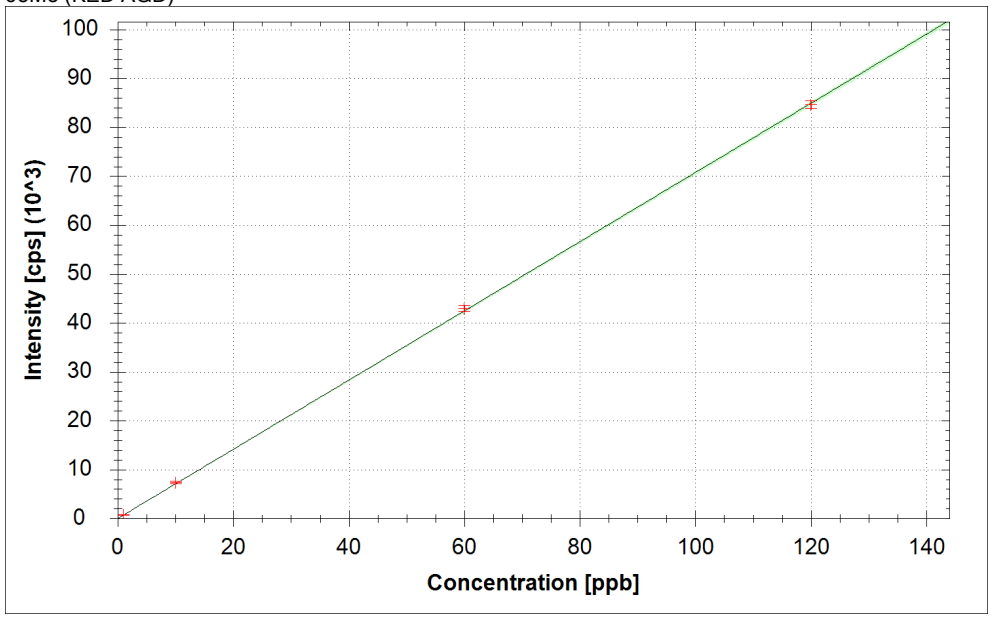
f(x) = 9.5714*x + 0.8305
R² = 0.9979
BEC = 0.087 ppb
LoD = 0.2048 ppb

88Sr (KED AGD)



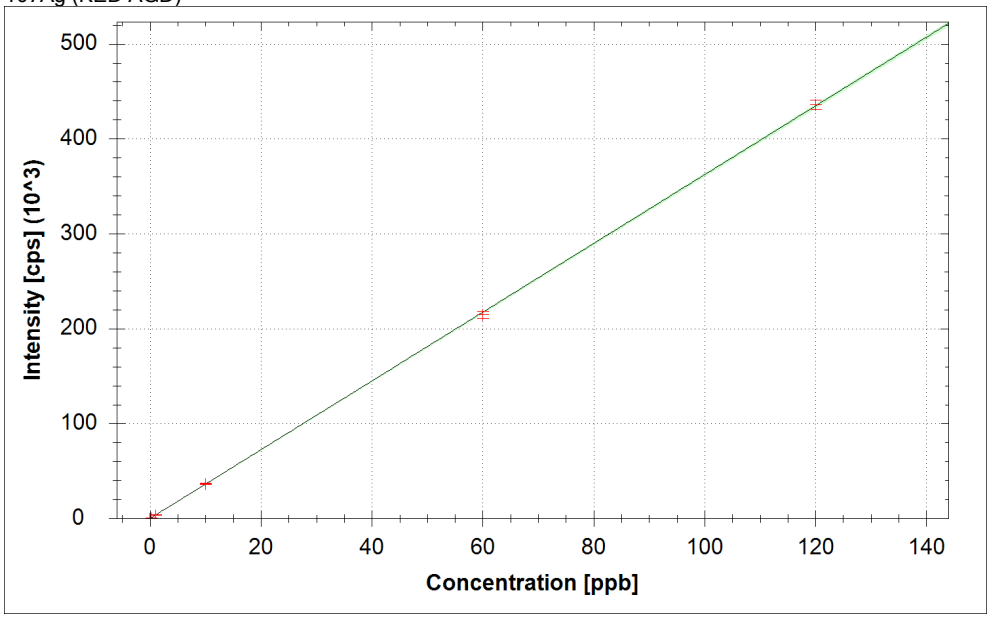
f(x) = 263.8944*x + 9.3709
R² = 0.9999
BEC = 0.036 ppb
LoD = 0.0044 ppb

95Mo (KED AGD)



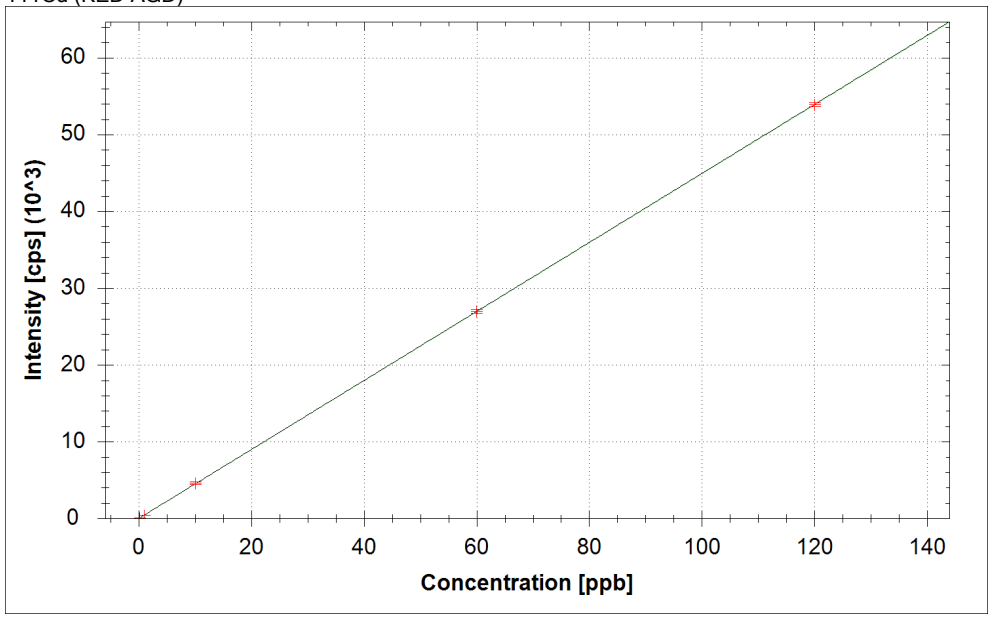
f(x) = 707.4969*x
R² = 0.9999
BEC = 0.000 ppb
LoD = 0.0000 ppb

107Ag (KED AGD)



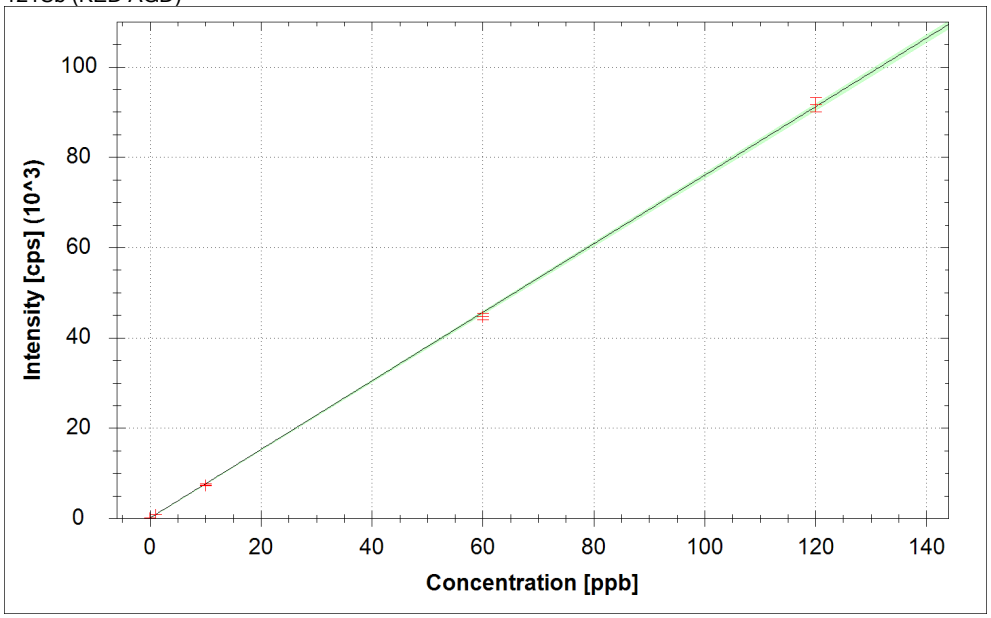
f(x) = 3620.8716*x + 5.5129
R² = 0.9999
BEC = 0.002 ppb
LoD = 0.0015 ppb

111Cd (KED AGD)



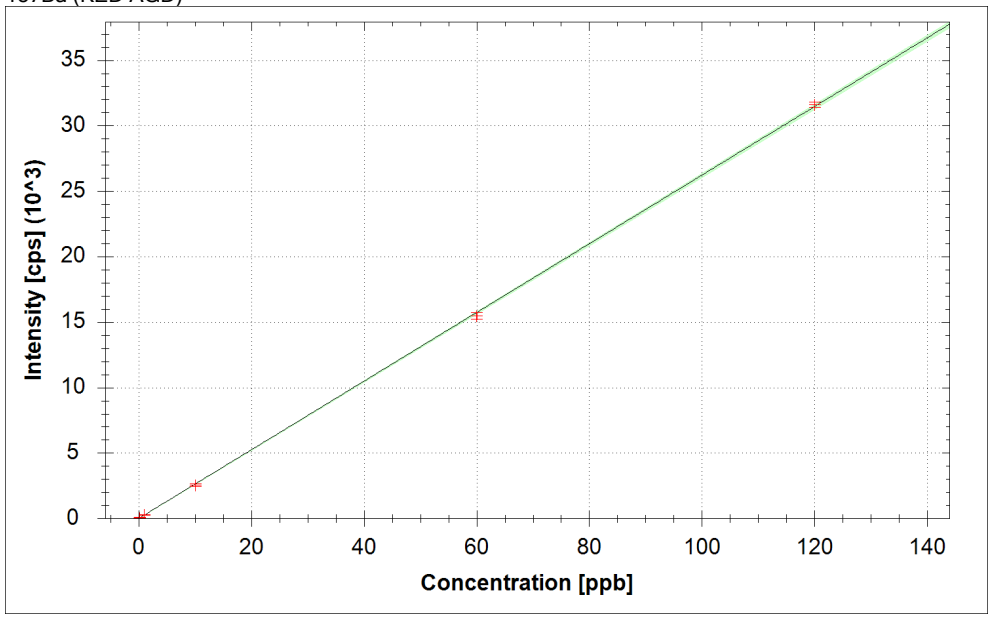
f(x) = 449.3262*x + 0.4246
R² = 1.0000
BEC = 0.001 ppb
LoD = 0.0049 ppb

121Sb (KED AGD)



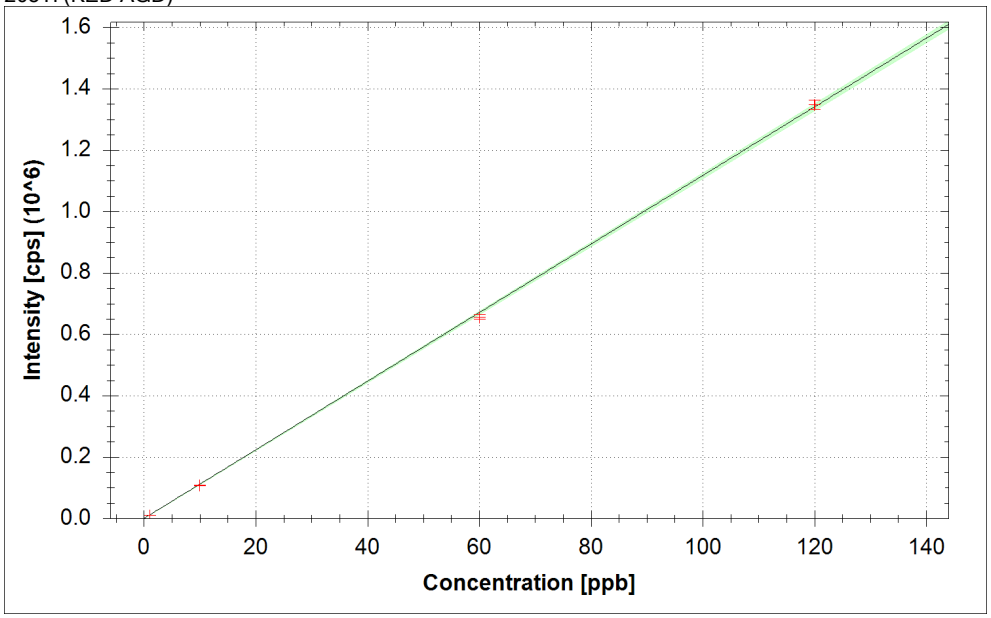
f(x) = 758.7003*x + 97.3986
R² = 0.9998
BEC = 0.128 ppb
LoD = 0.0573 ppb

137Ba (KED AGD)



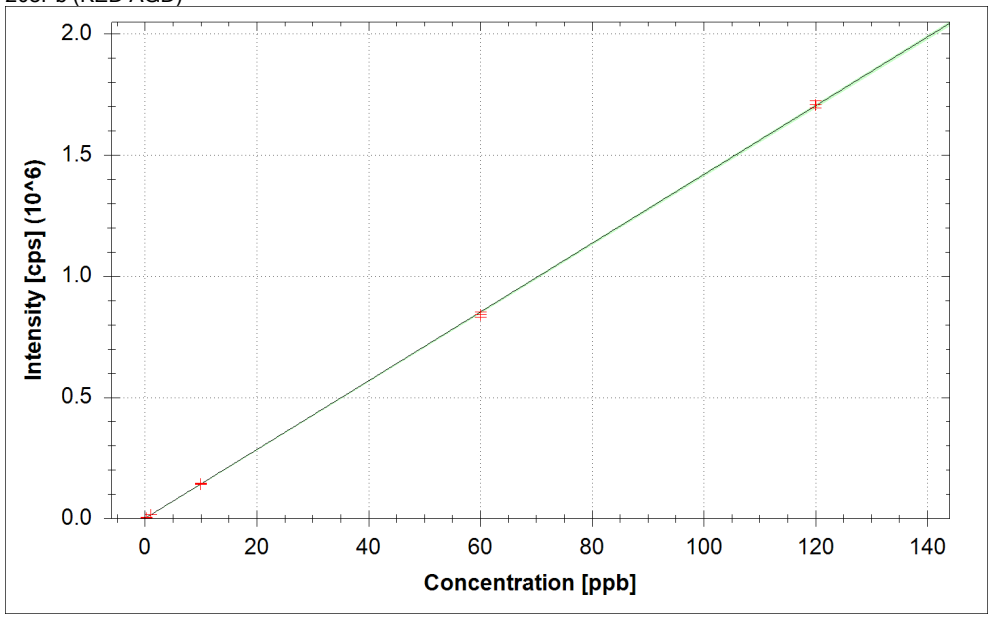
f(x) = 262.0642*x + 6.8398
R² = 0.9999
BEC = 0.026 ppb
LoD = 0.0710 ppb

205Tl (KED AGD)



f(x) = 11169.5830*x + 103.7069
R² = 0.9998
BEC = 0.009 ppb
LoD = 0.0124 ppb

208Pb (KED AGD)



f(x) = 14186.8281*x + 389.4141
R² = 0.9999
BEC = 0.027 ppb
LoD = 0.0104 ppb

Standards:

Analysis Index: 4
Analysis Name: 0.2/20 Cal
Analysis Type: STD
Analysis Started at: 3/5/2024 5:31:58 AM
Total Dilution Factor 1
Rack 0
Vial 2

Category	Concentration average	Concentration RSD	Standard Concentration	Standard Relative Difference
6Li (STD AGD)	107.836 %	0.5 %		0.000 %
6Li (KED AGD)	113.915 %	5.1 %		0.000 %
9Be (STD AGD)	0.217 ppb	5.5 %	0.200 ppb	8.328 %
23Na (KED AGD)	N/A	N/A	N/A	N/A
24Mg (KED AGD)	20.960 ppb	5.8 %	20.000 ppb	4.800 %
27Al (KED AGD)	N/A	N/A	N/A	N/A
39K (KED AGD)	N/A	N/A	N/A	N/A
44Ca (KED AGD)	N/A	N/A	N/A	N/A
45Sc (STD AGD)	106.144 %	0.6 %		0.000 %
51V (KED AGD)	N/A	N/A	N/A	N/A
52Cr (KED AGD)	N/A	N/A	N/A	N/A
55Mn (KED AGD)	0.232 ppb	25.1 %	0.200 ppb	15.910 %
57Fe (KED AGD)	20.497 ppb	2.9 %	20.000 ppb	2.485 %
59Co (KED AGD)	0.178 ppb	8.8 %	0.200 ppb	11.051 %
60Ni (KED AGD)	N/A	N/A	N/A	N/A
65Cu (KED AGD)	N/A	N/A	N/A	N/A
66Zn (KED AGD)	N/A	N/A	N/A	N/A
74Ge (KED AGD)	110.079 %	3.9 %		0.000 %
75As (KED AGD)	0.220 ppb	21.1 %	0.200 ppb	10.191 %
78Se (KED AGD)	N/A	N/A	N/A	N/A
88Sr (KED AGD)	0.254 ppb	2.4 %	0.200 ppb	26.892 %
95Mo (KED AGD)	N/A	N/A	N/A	N/A
103Rh (KED AGD)	106.137 %	3.3 %		0.000 %
107Ag (KED AGD)	0.199 ppb	1.5 %	0.200 ppb	0.357 %
111Cd (KED AGD)	0.198 ppb	13.0 %	0.200 ppb	1.085 %
115In (KED AGD)	105.531 %	2.8 %		0.000 %
121Sb (KED AGD)	N/A	N/A	N/A	N/A
137Ba (KED AGD)	0.191 ppb	24.3 %	0.200 ppb	4.648 %
159Tb (KED AGD)	105.382 %	1.9 %		0.000 %
175Lu (KED AGD)	105.926 %	2.2 %		0.000 %
205Tl (KED AGD)	N/A	N/A	N/A	N/A
208Pb (KED AGD)	0.203 ppb	3.6 %	0.200 ppb	1.592 %
209Bi (KED AGD)	110.335 %	1.6 %		0.000 %

Standards:

Analysis Index: 5
Analysis Name: 1/100 Cal
Analysis Type: STD
Analysis Started at: 3/5/2024 5:36:24 AM
Total Dilution Factor 10000
Rack 0
Vial 3

Category	Concentration average	Concentration RSD	Standard Concentration	Standard Relative Difference
6Li (STD AGD)	103.254 %	0.9 %		0.000 %
6Li (KED AGD)	110.761 %	8.9 %		0.000 %
9Be (STD AGD)	1.028 ppb	0.7 %	1.000 ppb	2.826 %
23Na (KED AGD)	96.545 ppb	14.5 %	100.000 ppb	3.455 %
24Mg (KED AGD)	101.006 ppb	12.9 %	100.000 ppb	1.006 %
27Al (KED AGD)	0.582 ppb	95.1 %	1.000 ppb	41.823 %
39K (KED AGD)	96.502 ppb	15.6 %	100.000 ppb	3.498 %
44Ca (KED AGD)	175.846 ppb	6.8 %	100.000 ppb	75.846 %
45Sc (STD AGD)	99.418 %	1.2 %		0.000 %
51V (KED AGD)	1.238 ppb	17.0 %	1.000 ppb	23.768 %
52Cr (KED AGD)	2.145 ppb	7.6 %	1.000 ppb	114.520 %
55Mn (KED AGD)	1.181 ppb	12.1 %	1.000 ppb	18.119 %
57Fe (KED AGD)	105.549 ppb	10.2 %	100.000 ppb	5.549 %
59Co (KED AGD)	1.070 ppb	4.8 %	1.000 ppb	6.975 %
60Ni (KED AGD)	1.691 ppb	10.7 %	1.000 ppb	69.078 %
65Cu (KED AGD)	1.096 ppb	10.4 %	1.000 ppb	9.605 %
66Zn (KED AGD)	1.335 ppb	3.6 %	1.000 ppb	33.502 %
74Ge (KED AGD)	104.530 %	2.9 %		0.000 %
75As (KED AGD)	1.050 ppb	14.8 %	1.000 ppb	4.962 %
78Se (KED AGD)	0.930 ppb	9.9 %	1.000 ppb	7.001 %
88Sr (KED AGD)	1.051 ppb	8.0 %	1.000 ppb	5.065 %
95Mo (KED AGD)	1.023 ppb	9.6 %	1.000 ppb	2.266 %
103Rh (KED AGD)	101.484 %	3.1 %		0.000 %
107Ag (KED AGD)	0.993 ppb	2.3 %	1.000 ppb	0.723 %
111Cd (KED AGD)	0.972 ppb	1.2 %	1.000 ppb	2.780 %
115In (KED AGD)	99.897 %	3.3 %		0.000 %
121Sb (KED AGD)	0.933 ppb	5.4 %	1.000 ppb	6.712 %
137Ba (KED AGD)	0.988 ppb	6.2 %	1.000 ppb	1.246 %
159Tb (KED AGD)	100.059 %	1.7 %		0.000 %
175Lu (KED AGD)	100.497 %	2.5 %		0.000 %
205Tl (KED AGD)	0.972 ppb	1.0 %	1.000 ppb	2.768 %
208Pb (KED AGD)	1.045 ppb	2.8 %	1.000 ppb	4.482 %
209Bi (KED AGD)	103.974 %	1.1 %		0.000 %

Standards:

Analysis Index: 6
Analysis Name: 10/1000 Cal
Analysis Type: STD
Analysis Started at: 3/5/2024 5:40:51 AM
Total Dilution Factor 1000
Rack 0
Vial 4

Category	Concentration average	Concentration RSD	Standard Concentration	Standard Relative Difference
6Li (STD AGD)	106.286 %	0.6 %		0.000 %
6Li (KED AGD)	111.410 %	3.3 %		0.000 %
9Be (STD AGD)	10.958 ppb	0.6 %	10.000 ppb	9.583 %
23Na (KED AGD)	1,029.388 ppb	4.5 %	1,000.000 ppb	2.939 %
24Mg (KED AGD)	1,069.244 ppb	3.8 %	1,000.000 ppb	6.924 %
27Al (KED AGD)	12.082 ppb	9.7 %	10.000 ppb	20.820 %
39K (KED AGD)	1,055.681 ppb	9.1 %	1,000.000 ppb	5.568 %
44Ca (KED AGD)	1,115.992 ppb	11.3 %	1,000.000 ppb	11.599 %
45Sc (STD AGD)	104.759 %	0.9 %		0.000 %
51V (KED AGD)	11.094 ppb	7.0 %	10.000 ppb	10.941 %
52Cr (KED AGD)	10.576 ppb	5.0 %	10.000 ppb	5.756 %
55Mn (KED AGD)	10.148 ppb	2.0 %	10.000 ppb	1.476 %
57Fe (KED AGD)	1,067.229 ppb	1.3 %	1,000.000 ppb	6.723 %
59Co (KED AGD)	10.599 ppb	1.1 %	10.000 ppb	5.994 %
60Ni (KED AGD)	10.913 ppb	1.2 %	10.000 ppb	9.131 %
65Cu (KED AGD)	10.497 ppb	5.0 %	10.000 ppb	4.968 %
66Zn (KED AGD)	10.904 ppb	2.9 %	10.000 ppb	9.039 %
74Ge (KED AGD)	110.780 %	2.0 %		0.000 %
75As (KED AGD)	10.471 ppb	2.3 %	10.000 ppb	4.708 %
78Se (KED AGD)	11.380 ppb	5.8 %	10.000 ppb	13.799 %
88Sr (KED AGD)	10.406 ppb	4.1 %	10.000 ppb	4.061 %
95Mo (KED AGD)	10.302 ppb	3.7 %	10.000 ppb	3.018 %
103Rh (KED AGD)	108.153 %	0.7 %		0.000 %
107Ag (KED AGD)	10.043 ppb	2.3 %	10.000 ppb	0.428 %
111Cd (KED AGD)	10.229 ppb	3.3 %	10.000 ppb	2.286 %
115In (KED AGD)	109.905 %	3.3 %		0.000 %
121Sb (KED AGD)	9.656 ppb	2.4 %	10.000 ppb	3.440 %
137Ba (KED AGD)	9.624 ppb	3.6 %	10.000 ppb	3.756 %
159Tb (KED AGD)	109.212 %	1.3 %		0.000 %
175Lu (KED AGD)	109.358 %	1.4 %		0.000 %
205Tl (KED AGD)	9.652 ppb	0.8 %	10.000 ppb	3.484 %
208Pb (KED AGD)	10.076 ppb	1.6 %	10.000 ppb	0.762 %
209Bi (KED AGD)	118.657 %	1.1 %		0.000 %

Standards:

Analysis Index: 7
Analysis Name: 60/6000 Cal
Analysis Type: STD
Analysis Started at: 3/5/2024 5:45:18 AM
Total Dilution Factor 166.6666666
Rack 0
Vial 5

Category	Concentration average	Concentration RSD	Standard Concentration	Standard Relative Difference
6Li (STD AGD)	104.646 %	0.6 %		0.000 %
6Li (KED AGD)	113.080 %	4.9 %		0.000 %
9Be (STD AGD)	61.151 ppb	0.7 %	60.000 ppb	1.918 %
23Na (KED AGD)	5,919.941 ppb	1.6 %	6,000.000 ppb	1.334 %
24Mg (KED AGD)	5,982.027 ppb	1.7 %	6,000.000 ppb	0.300 %
27Al (KED AGD)	64.846 ppb	7.2 %	60.000 ppb	8.076 %
39K (KED AGD)	6,043.379 ppb	2.2 %	6,000.000 ppb	0.723 %
44Ca (KED AGD)	6,082.881 ppb	2.9 %	6,000.000 ppb	1.381 %
45Sc (STD AGD)	101.020 %	0.5 %		0.000 %
51V (KED AGD)	61.295 ppb	2.9 %	60.000 ppb	2.159 %
52Cr (KED AGD)	61.377 ppb	0.7 %	60.000 ppb	2.295 %
55Mn (KED AGD)	61.758 ppb	0.0 %	60.000 ppb	2.930 %
57Fe (KED AGD)	6,209.689 ppb	1.9 %	6,000.000 ppb	3.495 %
59Co (KED AGD)	61.936 ppb	3.2 %	60.000 ppb	3.226 %
60Ni (KED AGD)	61.480 ppb	2.5 %	60.000 ppb	2.467 %
65Cu (KED AGD)	62.058 ppb	3.7 %	60.000 ppb	3.429 %
66Zn (KED AGD)	61.988 ppb	1.2 %	60.000 ppb	3.313 %
74Ge (KED AGD)	107.041 %	5.2 %		0.000 %
75As (KED AGD)	62.495 ppb	2.4 %	60.000 ppb	4.158 %
78Se (KED AGD)	63.989 ppb	5.0 %	60.000 ppb	6.649 %
88Sr (KED AGD)	60.607 ppb	2.9 %	60.000 ppb	1.012 %
95Mo (KED AGD)	60.678 ppb	1.5 %	60.000 ppb	1.130 %
103Rh (KED AGD)	105.690 %	3.7 %		0.000 %
107Ag (KED AGD)	59.204 ppb	1.8 %	60.000 ppb	1.327 %
111Cd (KED AGD)	60.053 ppb	1.1 %	60.000 ppb	0.088 %
115In (KED AGD)	105.909 %	4.3 %		0.000 %
121Sb (KED AGD)	58.792 ppb	1.7 %	60.000 ppb	2.013 %
137Ba (KED AGD)	58.909 ppb	1.6 %	60.000 ppb	1.818 %
159Tb (KED AGD)	100.577 %	2.4 %		0.000 %
175Lu (KED AGD)	98.034 %	4.6 %		0.000 %
205Tl (KED AGD)	58.711 ppb	1.2 %	60.000 ppb	2.148 %
208Pb (KED AGD)	59.250 ppb	1.2 %	60.000 ppb	1.251 %
209Bi (KED AGD)	116.442 %	2.8 %		0.000 %

Standards:

Analysis Index: 8
Analysis Name: 120/12000 Cal
Analysis Type: STD
Analysis Started at: 3/5/2024 5:49:46 AM
Total Dilution Factor 83.33333333
Rack 0
Vial 6

Category	Concentration average	Concentration RSD	Standard Concentration	Standard Relative Difference
6Li (STD AGD)	91.855 %	0.8 %		0.000 %
6Li (KED AGD)	91.373 %	4.6 %		0.000 %
9Be (STD AGD)	119.344 ppb	0.4 %	120.000 ppb	0.546 %
23Na (KED AGD)	12,037.609 ppb	5.9 %	12,000.000 ppb	0.313 %
24Mg (KED AGD)	12,003.206 ppb	4.7 %	12,000.000 ppb	0.027 %
27Al (KED AGD)	117.407 ppb	1.5 %	120.000 ppb	2.161 %
39K (KED AGD)	11,973.699 ppb	3.7 %	12,000.000 ppb	0.219 %
44Ca (KED AGD)	11,948.261 ppb	4.8 %	12,000.000 ppb	0.431 %
45Sc (STD AGD)	82.672 %	0.6 %		0.000 %
51V (KED AGD)	119.259 ppb	4.7 %	120.000 ppb	0.617 %
52Cr (KED AGD)	119.254 ppb	5.6 %	120.000 ppb	0.622 %
55Mn (KED AGD)	119.107 ppb	5.0 %	120.000 ppb	0.744 %
57Fe (KED AGD)	11,889.506 ppb	5.4 %	12,000.000 ppb	0.921 %
59Co (KED AGD)	118.982 ppb	6.6 %	120.000 ppb	0.849 %
60Ni (KED AGD)	119.178 ppb	7.2 %	120.000 ppb	0.685 %
65Cu (KED AGD)	118.929 ppb	7.7 %	120.000 ppb	0.893 %
66Zn (KED AGD)	118.928 ppb	5.3 %	120.000 ppb	0.893 %
74Ge (KED AGD)	91.623 %	3.3 %		0.000 %
75As (KED AGD)	118.713 ppb	4.4 %	120.000 ppb	1.073 %
78Se (KED AGD)	117.891 ppb	3.3 %	120.000 ppb	1.757 %
88Sr (KED AGD)	119.662 ppb	1.3 %	120.000 ppb	0.282 %
95Mo (KED AGD)	119.636 ppb	1.0 %	120.000 ppb	0.304 %
103Rh (KED AGD)	85.605 %	5.7 %		0.000 %
107Ag (KED AGD)	120.395 ppb	1.1 %	120.000 ppb	0.329 %
111Cd (KED AGD)	119.955 ppb	0.5 %	120.000 ppb	0.038 %
115In (KED AGD)	85.594 %	3.5 %		0.000 %
121Sb (KED AGD)	120.633 ppb	1.8 %	120.000 ppb	0.528 %
137Ba (KED AGD)	120.577 ppb	0.7 %	120.000 ppb	0.481 %
159Tb (KED AGD)	77.455 %	4.6 %		0.000 %
175Lu (KED AGD)	75.876 %	2.5 %		0.000 %
205Tl (KED AGD)	120.674 ppb	1.1 %	120.000 ppb	0.561 %
208Pb (KED AGD)	120.368 ppb	0.9 %	120.000 ppb	0.307 %
209Bi (KED AGD)	95.346 %	5.4 %		0.000 %

Alpha ICPMSQ2 Data with SRD

3/5/2024 9:03:09 PM

Analysis index:	1	User name	ALPHALAB\a2-icpmsq2	Comment	<Comment>
Analysis label:	Rinse	Rack	0		
Analysis started at:	3/5/2024 5:18:36 AM	Vial	1		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	109.836 %	129.407 %	0.024 ppb	15.887 ppb	5.205 ppb	0.374 ppb	17.767 ppb	45.073 ppb	108.059 %
Concentration per Run 1	109.791 %	121.614 %	0.031 ppb	15.835 ppb	6.905 ppb	-0.096 ppb	21.002 ppb	55.780 ppb	106.526 %
Concentration per Run 2	110.508 %	130.798 %	0.027 ppb	21.181 ppb	4.801 ppb	0.810 ppb	18.928 ppb	41.303 ppb	109.066 %
Concentration per Run 3	109.210 %	135.807 %	0.016 ppb	10.646 ppb	3.909 ppb	0.407 ppb	13.370 ppb	38.135 ppb	108.586 %
Concentration RSD	0.6 %	5.6 %	31.6 %	33.2 %	29.6 %	121.5 %	22.2 %	20.9 %	1.2 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.009 ppb	0.004 ppb	0.278 ppb	6.574 ppb	0.033 ppb	0.482 ppb	0.249 ppb	3.603 ppb	118.706 %
Concentration per Run 1	-0.025 ppb	0.017 ppb	0.293 ppb	7.890 ppb	0.027 ppb	0.597 ppb	0.212 ppb	3.442 ppb	117.134 %
Concentration per Run 2	-0.003 ppb	-0.003 ppb	0.299 ppb	4.972 ppb	0.039 ppb	0.451 ppb	0.287 ppb	3.758 ppb	117.987 %
Concentration per Run 3	0.054 ppb	-0.002 ppb	0.242 ppb	6.859 ppb	0.034 ppb	0.398 ppb	0.250 ppb	3.608 ppb	120.998 %
Concentration RSD	472.8 %	258.6 %	11.4 %	22.5 %	18.6 %	21.3 %	15.1 %	4.4 %	1.7 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.039 ppb	0.005 ppb	0.054 ppb	0.027 ppb	112.653 %	0.018 ppb	0.019 ppb	116.336 %	0.065 ppb
Concentration per Run 1	0.066 ppb	0.069 ppb	0.044 ppb	0.033 ppb	114.745 %	0.013 ppb	0.014 ppb	117.292 %	0.028 ppb
Concentration per Run 2	0.008 ppb	-0.049 ppb	0.059 ppb	0.017 ppb	110.316 %	0.020 ppb	0.012 ppb	111.180 %	0.066 ppb
Concentration per Run 3	0.044 ppb	-0.004 ppb	0.058 ppb	0.033 ppb	112.899 %	0.022 ppb	0.029 ppb	120.534 %	0.103 ppb
Concentration RSD	74.0 %	1,154.2 %	15.8 %	33.6 %	2.0 %	25.9 %	49.3 %	4.1 %	57.5 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.047 ppb	115.724 %	117.772 %	0.022 ppb	0.054 ppb	102.876 %
Concentration per Run 1	0.061 ppb	116.286 %	117.432 %	0.018 ppb	0.048 ppb	106.179 %
Concentration per Run 2	0.053 ppb	113.006 %	114.993 %	0.021 ppb	0.062 ppb	100.341 %
Concentration per Run 3	0.027 ppb	117.881 %	120.890 %	0.027 ppb	0.052 ppb	102.107 %
Concentration RSD	37.5 %	2.1 %	2.5 %	21.9 %	13.1 %	2.9 %

Alpha ICPMSQ2 Data with SRD

3/5/2024 9:03:09 PM

Analysis index: 2
Analysis label: CAL LOT #M24-1045
Analysis started at: 3/5/2024 5:23:01 AM
User name ALPHALAB\a2-icpmsq2
Rack 0
Vial 1
Comment <Comment>

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	110.992 %	124.490 %	0.025 ppb	11.131 ppb	3.678 ppb	0.345 ppb	21.340 ppb	44.359 ppb	110.158 %
Concentration per Run 1	110.245 %	107.143 %	0.026 ppb	15.965 ppb	5.266 ppb	-0.019 ppb	25.715 ppb	50.283 ppb	109.672 %
Concentration per Run 2	110.705 %	131.911 %	0.018 ppb	7.677 ppb	3.637 ppb	0.292 ppb	20.844 ppb	37.003 ppb	110.577 %
Concentration per Run 3	112.025 %	134.416 %	0.030 ppb	9.752 ppb	2.132 ppb	0.761 ppb	17.461 ppb	45.791 ppb	110.227 %
Concentration RSD	0.8 %	12.1 %	25.9 %	38.7 %	42.6 %	113.8 %	19.4 %	15.2 %	0.4 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.007 ppb	0.017 ppb	0.201 ppb	6.717 ppb	0.027 ppb	0.451 ppb	0.309 ppb	3.665 ppb	115.647 %
Concentration per Run 1	-0.023 ppb	0.022 ppb	0.210 ppb	8.587 ppb	0.021 ppb	0.370 ppb	0.317 ppb	3.702 ppb	115.412 %
Concentration per Run 2	0.048 ppb	0.006 ppb	0.114 ppb	5.744 ppb	0.040 ppb	0.352 ppb	0.297 ppb	3.575 ppb	113.376 %
Concentration per Run 3	-0.003 ppb	0.023 ppb	0.280 ppb	5.819 ppb	0.019 ppb	0.630 ppb	0.314 ppb	3.719 ppb	118.152 %
Concentration RSD	520.3 %	56.4 %	41.3 %	24.1 %	43.3 %	34.5 %	3.4 %	2.1 %	2.1 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.013 ppb	0.026 ppb	0.055 ppb	0.026 ppb	110.442 %	0.023 ppb	0.020 ppb	110.894 %	0.020 ppb
Concentration per Run 1	-0.035 ppb	-0.051 ppb	0.063 ppb	0.051 ppb	108.011 %	0.019 ppb	0.021 ppb	110.043 %	0.021 ppb
Concentration per Run 2	0.043 ppb	0.098 ppb	0.051 ppb	0.017 ppb	107.819 %	0.029 ppb	0.016 ppb	102.830 %	0.011 ppb
Concentration per Run 3	0.030 ppb	0.032 ppb	0.050 ppb	0.008 ppb	115.496 %	0.021 ppb	0.024 ppb	119.808 %	0.028 ppb
Concentration RSD	328.5 %	283.3 %	13.7 %	89.2 %	4.0 %	23.6 %	19.8 %	7.7 %	41.7 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.048 ppb	110.181 %	110.694 %	0.018 ppb	0.041 ppb	109.551 %
Concentration per Run 1	0.032 ppb	107.495 %	107.687 %	0.015 ppb	0.040 ppb	107.299 %
Concentration per Run 2	0.083 ppb	106.105 %	106.933 %	0.018 ppb	0.040 ppb	107.210 %
Concentration per Run 3	0.028 ppb	116.942 %	117.463 %	0.021 ppb	0.044 ppb	114.144 %
Concentration RSD	64.8 %	5.4 %	5.3 %	19.1 %	5.6 %	3.6 %

Alpha ICPMSQ2 Data with SRD

3/5/2024 9:03:09 PM

Analysis index:	3	User name	ALPHALAB\a2-icpmsq2	Comment	<Comment>
Analysis label:	Blank EJF ICPMSQ2	Rack	4		
Analysis started at:	3/5/2024 5:27:27 AM	Vial	49		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	100.000 %	100.000 %	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	100.000 %
Concentration per Run	100.000 %	100.000 %	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	100.000 %
Concentration RSD	0.0 %	0.1 %	0.5 %	0.1 %	0.4 %	0.2 %	0.1 %	0.9 %	0.0 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	100.000 %
Concentration per Run	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	100.000 %
Concentration RSD	0.5 %	0.2 %	0.4 %	0.6 %	0.4 %	0.4 %	0.3 %	0.2 %	0.0 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	100.000 %	0.000 ppb	0.000 ppb	100.000 %	0.000 ppb
Concentration per Run	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	100.000 %	0.000 ppb	0.000 ppb	100.000 %	0.000 ppb
Concentration RSD	0.1 %	0.8 %	0.0 %		0.0 %	0.3 %	1.7 %	0.1 %	0.1 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.000 ppb	100.000 %	100.000 %	0.000 ppb	0.000 ppb	100.000 %
Concentration per Run	0.000 ppb	100.000 %	100.000 %	0.000 ppb	0.000 ppb	100.000 %
Concentration RSD	0.9 %	0.0 %	0.0 %	0.4 %	0.1 %	0.0 %

Alpha ICPMSQ2 Data with SRD

3/5/2024 9:03:09 PM

Analysis index:	4	User name	ALPHALAB\a2-icpmsq2	Comment	<Comment>
Analysis label:	0.2/20 Cal	Rack	0		
Analysis started at:	3/5/2024 5:31:58 AM	Vial	2		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	107.836 %	113.915 %	0.217 ppb	N/A	20.960 ppb	N/A	N/A	N/A	106.144 %
Concentration per Run 1	108.346 %	109.648 %	0.213 ppb	N/A	22.228 ppb	N/A	N/A	N/A	105.455 %
Concentration per Run 2	107.254 %	120.501 %	0.230 ppb	N/A	20.842 ppb	N/A	N/A	N/A	106.791 %
Concentration per Run 3	107.909 %	111.596 %	0.207 ppb	N/A	19.810 ppb	N/A	N/A	N/A	106.185 %
Concentration RSD	0.5 %	5.1 %	5.5 %	N/A	5.8 %	N/A	N/A	N/A	0.6 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	N/A	N/A	0.232 ppb	20.497 ppb	0.178 ppb	N/A	N/A	N/A	110.079 %
Concentration per Run 1	N/A	N/A	0.166 ppb	19.829 ppb	0.196 ppb	N/A	N/A	N/A	110.023 %
Concentration per Run 2	N/A	N/A	0.254 ppb	20.915 ppb	0.169 ppb	N/A	N/A	N/A	105.789 %
Concentration per Run 3	N/A	N/A	0.276 ppb	20.747 ppb	0.169 ppb	N/A	N/A	N/A	114.426 %
Concentration RSD	N/A	N/A	25.1 %	2.9 %	8.8 %	N/A	N/A	N/A	3.9 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.220 ppb	N/A	0.254 ppb	N/A	106.137 %	0.199 ppb	0.198 ppb	105.531 %	N/A
Concentration per Run 1	0.230 ppb	N/A	0.256 ppb	N/A	105.033 %	0.199 ppb	0.209 ppb	106.228 %	N/A
Concentration per Run 2	0.261 ppb	N/A	0.259 ppb	N/A	110.045 %	0.196 ppb	0.168 ppb	108.042 %	N/A
Concentration per Run 3	0.170 ppb	N/A	0.247 ppb	N/A	103.332 %	0.202 ppb	0.216 ppb	102.323 %	N/A
Concentration RSD	21.1 %	N/A	2.4 %	N/A	3.3 %	1.5 %	13.0 %	2.8 %	N/A

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.191 ppb	105.382 %	105.926 %	N/A	0.203 ppb	110.335 %
Concentration per Run 1	0.239 ppb	104.703 %	105.031 %	N/A	0.210 ppb	108.876 %
Concentration per Run 2	0.186 ppb	107.658 %	108.613 %	N/A	0.205 ppb	112.270 %
Concentration per Run 3	0.147 ppb	103.786 %	104.133 %	N/A	0.195 ppb	109.861 %
Concentration RSD	24.3 %	1.9 %	2.2 %	N/A	3.6 %	1.6 %

Alpha ICPMSQ2 Data with SRD

3/5/2024 9:03:09 PM

Analysis index:	5	User name	ALPHALAB\a2-icpmsq2	Comment	<Comment>
Analysis label:	1/100 Cal	Rack	0		
Analysis started at:	3/5/2024 5:36:24 AM	Vial	3		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	103.254 %	110.761 %	1.028 ppb	96.545 ppb	101.006 ppb	0.582 ppb	96.502 ppb	175.846 ppb	99.418 %
Concentration per Run 1	102.433 %	103.247 %	1.031 ppb	111.145 ppb	115.486 ppb	0.994 ppb	108.096 ppb	184.750 ppb	98.285 %
Concentration per Run 2	103.011 %	121.893 %	1.034 ppb	83.283 ppb	90.149 ppb	0.799 ppb	79.487 ppb	162.227 ppb	99.371 %
Concentration per Run 3	104.317 %	107.143 %	1.020 ppb	95.207 ppb	97.383 ppb	-0.047 ppb	101.922 ppb	180.560 ppb	100.599 %
Concentration RSD	0.9 %	8.9 %	0.7 %	14.5 %	12.9 %	95.1 %	15.6 %	6.8 %	1.2 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	1.238 ppb	2.145 ppb	1.181 ppb	105.549 ppb	1.070 ppb	1.691 ppb	1.096 ppb	1.335 ppb	104.530 %
Concentration per Run 1	1.028 ppb	2.329 ppb	1.340 ppb	117.969 ppb	1.127 ppb	1.848 ppb	1.227 ppb	1.362 ppb	101.222 %
Concentration per Run 2	1.449 ppb	2.017 ppb	1.062 ppb	99.283 ppb	1.027 ppb	1.494 ppb	1.020 ppb	1.279 ppb	107.209 %
Concentration per Run 3	1.236 ppb	2.089 ppb	1.141 ppb	99.396 ppb	1.055 ppb	1.730 ppb	1.041 ppb	1.363 ppb	105.159 %
Concentration RSD	17.0 %	7.6 %	12.1 %	10.2 %	4.8 %	10.7 %	10.4 %	3.6 %	2.9 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	1.050 ppb	0.930 ppb	1.051 ppb	1.023 ppb	101.484 %	0.993 ppb	0.972 ppb	99.897 %	0.933 ppb
Concentration per Run 1	1.194 ppb	1.025 ppb	1.147 ppb	0.987 ppb	98.561 %	0.968 ppb	0.982 ppb	97.820 %	0.990 ppb
Concentration per Run 2	0.885 ppb	0.922 ppb	0.992 ppb	0.947 ppb	104.767 %	1.012 ppb	0.974 ppb	103.702 %	0.900 ppb
Concentration per Run 3	1.070 ppb	0.842 ppb	1.014 ppb	1.134 ppb	101.123 %	0.999 ppb	0.960 ppb	98.170 %	0.908 ppb
Concentration RSD	14.8 %	9.9 %	8.0 %	9.6 %	3.1 %	2.3 %	1.2 %	3.3 %	5.4 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.988 ppb	100.059 %	100.497 %	0.972 ppb	1.045 ppb	103.974 %
Concentration per Run 1	1.038 ppb	98.134 %	97.735 %	0.983 ppb	1.073 ppb	102.892 %
Concentration per Run 2	1.004 ppb	101.292 %	102.773 %	0.966 ppb	1.046 ppb	105.116 %
Concentration per Run 3	0.920 ppb	100.751 %	100.983 %	0.967 ppb	1.016 ppb	103.914 %
Concentration RSD	6.2 %	1.7 %	2.5 %	1.0 %	2.8 %	1.1 %

Alpha ICPMSQ2 Data with SRD

3/5/2024 9:03:09 PM

Analysis index:	6	User name	ALPHALAB\a2-icpmsq2	Comment	<Comment>
Analysis label:	10/1000 Cal	Rack	0		
Analysis started at:	3/5/2024 5:40:51 AM	Vial	4		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	106.286 %	111.410 %	10.958 ppb	1,029.388 ppb	1,069.244 ppb	12.082 ppb	1,055.681 ppb	1,115.992 ppb	104.759 %
Concentration per Run 1	106.362 %	107.700 %	11.022 ppb	1,078.593 ppb	1,112.774 ppb	13.230 ppb	1,167.163 ppb	1,245.012 ppb	105.402 %
Concentration per Run 2	106.851 %	114.935 %	10.967 ppb	986.242 ppb	1,031.586 ppb	12.126 ppb	998.315 ppb	994.207 ppb	105.260 %
Concentration per Run 3	105.644 %	111.596 %	10.886 ppb	1,023.328 ppb	1,063.370 ppb	10.891 ppb	1,001.565 ppb	1,108.759 ppb	103.615 %
Concentration RSD	0.6 %	3.3 %	0.6 %	4.5 %	3.8 %	9.7 %	9.1 %	11.3 %	0.9 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	11.094 ppb	10.576 ppb	10.148 ppb	1,067.229 ppb	10.599 ppb	10.913 ppb	10.497 ppb	10.904 ppb	110.780 %
Concentration per Run 1	11.134 ppb	10.950 ppb	10.212 ppb	1,066.336 ppb	10.713 ppb	11.057 ppb	11.087 ppb	11.195 ppb	109.322 %
Concentration per Run 2	10.302 ppb	9.973 ppb	9.923 ppb	1,053.998 ppb	10.602 ppb	10.868 ppb	10.064 ppb	10.577 ppb	113.274 %
Concentration per Run 3	11.846 ppb	10.803 ppb	10.309 ppb	1,081.353 ppb	10.483 ppb	10.814 ppb	10.339 ppb	10.940 ppb	109.744 %
Concentration RSD	7.0 %	5.0 %	2.0 %	1.3 %	1.1 %	1.2 %	5.0 %	2.9 %	2.0 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	10.471 ppb	11.380 ppb	10.406 ppb	10.302 ppb	108.153 %	10.043 ppb	10.229 ppb	109.905 %	9.656 ppb
Concentration per Run 1	10.741 ppb	11.435 ppb	10.894 ppb	10.716 ppb	108.859 %	9.931 ppb	9.885 ppb	114.047 %	9.545 ppb
Concentration per Run 2	10.368 ppb	10.690 ppb	10.131 ppb	10.227 ppb	107.421 %	10.304 ppb	10.252 ppb	107.040 %	9.925 ppb
Concentration per Run 3	10.303 ppb	12.014 ppb	10.193 ppb	9.963 ppb	108.179 %	9.893 ppb	10.549 ppb	108.627 %	9.499 ppb
Concentration RSD	2.3 %	5.8 %	4.1 %	3.7 %	0.7 %	2.3 %	3.3 %	3.3 %	2.4 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	9.624 ppb	109.212 %	109.358 %	9.652 ppb	10.076 ppb	118.657 %
Concentration per Run 1	9.840 ppb	110.822 %	110.591 %	9.618 ppb	9.891 ppb	117.248 %
Concentration per Run 2	9.804 ppb	108.547 %	107.698 %	9.596 ppb	10.139 ppb	118.854 %
Concentration per Run 3	9.229 ppb	108.268 %	109.784 %	9.741 ppb	10.199 ppb	119.868 %
Concentration RSD	3.6 %	1.3 %	1.4 %	0.8 %	1.6 %	1.1 %

Alpha ICPMSQ2 Data with SRD

3/5/2024 9:03:09 PM

Analysis index:	7	User name	ALPHALAB\a2-icpmsq2	Comment	<Comment>
Analysis label:	60/6000 Cal	Rack	0		
Analysis started at:	3/5/2024 5:45:18 AM	Vial	5		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	104.646 %	113.080 %	61.151 ppb	5,919.941 ppb	5,982.027 ppb	64.846 ppb	6,043.379 ppb	6,082.881 ppb	101.020 %
Concentration per Run 1	104.813 %	106.865 %	60.782 ppb	5,954.555 ppb	5,930.169 ppb	66.418 ppb	6,030.320 ppb	5,894.920 ppb	100.482 %
Concentration per Run 2	105.203 %	117.440 %	61.020 ppb	5,992.493 ppb	6,096.658 ppb	68.517 ppb	6,179.786 ppb	6,241.665 ppb	101.254 %
Concentration per Run 3	103.921 %	114.935 %	61.651 ppb	5,812.775 ppb	5,919.254 ppb	59.603 ppb	5,920.032 ppb	6,112.059 ppb	101.323 %
Concentration RSD	0.6 %	4.9 %	0.7 %	1.6 %	1.7 %	7.2 %	2.2 %	2.9 %	0.5 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	61.295 ppb	61.377 ppb	61.758 ppb	6,209.689 ppb	61.936 ppb	61.480 ppb	62.058 ppb	61.988 ppb	107.041 %
Concentration per Run 1	61.751 ppb	61.792 ppb	61.751 ppb	6,345.831 ppb	63.779 ppb	61.188 ppb	63.094 ppb	61.346 ppb	103.755 %
Concentration per Run 2	59.321 ppb	60.924 ppb	61.740 ppb	6,125.467 ppb	59.844 ppb	60.080 ppb	59.416 ppb	61.806 ppb	113.444 %
Concentration per Run 3	62.814 ppb	61.416 ppb	61.783 ppb	6,157.769 ppb	62.184 ppb	63.174 ppb	63.663 ppb	62.811 ppb	103.924 %
Concentration RSD	2.9 %	0.7 %	0.0 %	1.9 %	3.2 %	2.5 %	3.7 %	1.2 %	5.2 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	62.495 ppb	63.989 ppb	60.607 ppb	60.678 ppb	105.690 %	59.204 ppb	60.053 ppb	105.909 %	58.792 ppb
Concentration per Run 1	62.044 ppb	60.429 ppb	59.903 ppb	61.595 ppb	101.234 %	60.384 ppb	59.877 ppb	102.865 %	57.667 ppb
Concentration per Run 2	61.276 ppb	66.557 ppb	62.617 ppb	60.620 ppb	107.929 %	58.339 ppb	59.526 ppb	111.087 %	59.223 ppb
Concentration per Run 3	64.165 ppb	64.981 ppb	59.302 ppb	59.818 ppb	107.907 %	58.889 ppb	60.756 ppb	103.774 %	59.486 ppb
Concentration RSD	2.4 %	5.0 %	2.9 %	1.5 %	3.7 %	1.8 %	1.1 %	4.3 %	1.7 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	58.909 ppb	100.577 %	98.034 %	58.711 ppb	59.250 ppb	116.442 %
Concentration per Run 1	57.857 ppb	98.323 %	94.189 %	59.454 ppb	59.858 ppb	112.761 %
Concentration per Run 2	59.120 ppb	103.203 %	102.943 %	58.642 ppb	59.459 ppb	117.797 %
Concentration per Run 3	59.750 ppb	100.206 %	96.971 %	58.037 ppb	58.432 ppb	118.768 %
Concentration RSD	1.6 %	2.4 %	4.6 %	1.2 %	1.2 %	2.8 %

Alpha ICPMSQ2 Data with SRD

3/5/2024 9:03:09 PM

Analysis index:	8	User name	ALPHALAB\a2-icpmsq2	Comment	<Comment>
Analysis label:	120/12000 Cal	Rack	0		
Analysis started at:	3/5/2024 5:49:46 AM	Vial	6		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	91.855 %	91.373 %	119.344 ppb	12,037.609 ppb	12,003.206 ppb	117.407 ppb	11,973.699 ppb	11,948.261 ppb	82.672 %
Concentration per Run 1	92.709 %	86.549 %	118.768 ppb	12,815.359 ppb	12,624.369 ppb	119.427 ppb	12,382.804 ppb	12,608.667 ppb	83.236 %
Concentration per Run 2	91.522 %	93.785 %	119.802 ppb	11,430.267 ppb	11,507.426 ppb	116.003 ppb	11,511.248 ppb	11,557.072 ppb	82.605 %
Concentration per Run 3	91.334 %	93.785 %	119.463 ppb	11,867.202 ppb	11,877.824 ppb	116.791 ppb	12,027.046 ppb	11,679.045 ppb	82.176 %
Concentration RSD	0.8 %	4.6 %	0.4 %	5.9 %	4.7 %	1.5 %	3.7 %	4.8 %	0.6 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	119.259 ppb	119.254 ppb	119.107 ppb	11,889.506 ppb	118.982 ppb	119.178 ppb	118.929 ppb	118.928 ppb	91.623 %
Concentration per Run 1	123.295 ppb	126.044 ppb	124.530 ppb	12,546.094 ppb	126.847 ppb	126.737 ppb	125.572 ppb	125.362 ppb	88.187 %
Concentration per Run 2	112.897 ppb	112.639 ppb	112.689 ppb	11,269.985 ppb	111.228 ppb	109.892 ppb	108.501 ppb	112.866 ppb	94.008 %
Concentration per Run 3	121.586 ppb	119.078 ppb	120.103 ppb	11,852.439 ppb	118.870 ppb	120.904 ppb	122.714 ppb	118.555 ppb	92.673 %
Concentration RSD	4.7 %	5.6 %	5.0 %	5.4 %	6.6 %	7.2 %	7.7 %	5.3 %	3.3 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	118.713 ppb	117.891 ppb	119.662 ppb	119.636 ppb	85.605 %	120.395 ppb	119.955 ppb	85.594 %	120.633 ppb
Concentration per Run 1	124.217 ppb	119.229 ppb	121.106 ppb	120.936 ppb	86.783 %	121.849 ppb	120.635 ppb	85.300 %	120.335 ppb
Concentration per Run 2	113.728 ppb	113.541 ppb	119.873 ppb	118.645 ppb	80.210 %	119.456 ppb	119.712 ppb	82.731 %	122.902 ppb
Concentration per Run 3	118.194 ppb	120.903 ppb	118.007 ppb	119.327 ppb	89.821 %	119.879 ppb	119.518 ppb	88.750 %	118.662 ppb
Concentration RSD	4.4 %	3.3 %	1.3 %	1.0 %	5.7 %	1.1 %	0.5 %	3.5 %	1.8 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	120.577 ppb	77.455 %	75.876 %	120.674 ppb	120.368 ppb	95.346 %
Concentration per Run 1	120.677 ppb	77.718 %	76.217 %	120.607 ppb	119.861 ppb	96.050 %
Concentration per Run 2	121.308 ppb	73.790 %	73.863 %	119.383 ppb	121.566 ppb	89.850 %
Concentration per Run 3	119.746 ppb	80.856 %	77.547 %	122.031 ppb	119.678 ppb	100.138 %
Concentration RSD	0.7 %	4.6 %	2.5 %	1.1 %	0.9 %	5.4 %

Alpha ICPMSQ2 Data with SRD

3/5/2024 9:03:09 PM

Analysis index:	9	User name	ALPHALAB\a2-icpmsq2	Comment	Sr Inteference Check
Analysis label:	Sr 200ppb	Rack	4		
Analysis started at:	3/5/2024 6:04:51 AM	Vial	55		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	97.581 %	106.865 %	0.010 ppb	-0.419 ppb	2.492 ppb	0.360 ppb	0.345 ppb	-0.268 ppb	93.618 %
Concentration per Run 1	97.728 %	106.308 %	0.012 ppb	-0.938 ppb	1.335 ppb	0.301 ppb	-0.307 ppb	-19.036 ppb	94.589 %
Concentration per Run 2	98.174 %	101.020 %	0.010 ppb	1.539 ppb	4.463 ppb	0.179 ppb	4.194 ppb	11.869 ppb	93.165 %
Concentration per Run 3	96.840 %	113.265 %	0.008 ppb	-1.857 ppb	1.677 ppb	0.601 ppb	-2.851 ppb	6.362 ppb	93.101 %
Concentration RSD	0.7 %	5.7 %	22.7 %	419.5 %	68.9 %	60.3 %	1,032.6 %	6,139.6 %	0.9 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.022 ppb	0.004 ppb	0.094 ppb	25.889 ppb	0.007 ppb	0.160 ppb	0.064 ppb	0.692 ppb	93.145 %
Concentration per Run 1	-0.016 ppb	-0.011 ppb	0.173 ppb	2.414 ppb	0.006 ppb	0.183 ppb	0.106 ppb	0.650 ppb	87.631 %
Concentration per Run 2	-0.031 ppb	0.028 ppb	-0.015 ppb	5.076 ppb	0.002 ppb	0.174 ppb	0.065 ppb	0.700 ppb	91.614 %
Concentration per Run 3	-0.020 ppb	-0.006 ppb	0.126 ppb	70.176 ppb	0.012 ppb	0.122 ppb	0.022 ppb	0.725 ppb	100.190 %
Concentration RSD	36.1 %	577.5 %	103.4 %	148.2 %	78.0 %	20.6 %	65.4 %	5.6 %	6.9 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	-0.001 ppb	-0.001 ppb	196.527 ppb	0.040 ppb	93.051 %	0.010 ppb	0.011 ppb	93.232 %	-0.038 ppb
Concentration per Run 1	-0.023 ppb	-0.011 ppb	193.433 ppb	0.022 ppb	86.854 %	0.013 ppb	0.009 ppb	85.160 %	-0.042 ppb
Concentration per Run 2	-0.006 ppb	-0.126 ppb	193.272 ppb	0.041 ppb	92.660 %	0.010 ppb	0.009 ppb	92.570 %	-0.037 ppb
Concentration per Run 3	0.024 ppb	0.133 ppb	202.878 ppb	0.057 ppb	99.639 %	0.006 ppb	0.014 ppb	101.966 %	-0.033 ppb
Concentration RSD	1,724.6 %	10,856.8 %	2.8 %	44.2 %	6.9 %	38.8 %	25.6 %	9.0 %	11.7 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.033 ppb	93.121 %	93.589 %	0.071 ppb	0.005 ppb	102.429 %
Concentration per Run 1	0.018 ppb	87.233 %	86.554 %	0.061 ppb	0.006 ppb	97.476 %
Concentration per Run 2	0.042 ppb	93.159 %	92.470 %	0.077 ppb	0.004 ppb	102.404 %
Concentration per Run 3	0.037 ppb	98.972 %	101.742 %	0.075 ppb	0.006 ppb	107.409 %
Concentration RSD	39.1 %	6.3 %	8.2 %	12.1 %	28.2 %	4.8 %

Alpha ICPMSQ2 Data with SRD

3/5/2024 9:03:09 PM

Analysis index:	10	User name	ALPHALAB\a2-icpmsq2	Comment	ICV
Analysis label:	ICV	Rack	0		
Analysis started at:	3/5/2024 6:09:22 AM	Vial	7		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	99.188 %	105.380 %	54.041 ppb	5,107.694 ppb	5,150.280 ppb	54.078 ppb	5,052.209 ppb	5,158.816 ppb	90.271 %
Concentration per Run 1	99.299 %	94.898 %	54.540 ppb	5,424.918 ppb	5,463.552 ppb	55.436 ppb	5,342.450 ppb	5,258.643 ppb	90.090 %
Concentration per Run 2	98.323 %	111.596 %	54.167 ppb	4,891.744 ppb	4,903.181 ppb	51.941 ppb	4,822.915 ppb	5,048.255 ppb	89.527 %
Concentration per Run 3	99.943 %	109.648 %	53.417 ppb	5,006.418 ppb	5,084.108 ppb	54.857 ppb	4,991.262 ppb	5,169.550 ppb	91.196 %
Recovery Percentage 1			108.082 %	102.154 %	103.006 %	108.156 %	101.044 %	103.176 %	
Concentration RSD	0.8 %	8.7 %	1.1 %	5.5 %	5.6 %	3.5 %	5.2 %	2.0 %	0.9 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	54.326 ppb	52.878 ppb	52.151 ppb	5,335.113 ppb	53.703 ppb	54.817 ppb	54.298 ppb	53.928 ppb	97.287 %
Concentration per Run 1	55.545 ppb	54.199 ppb	52.576 ppb	5,471.776 ppb	55.577 ppb	55.605 ppb	55.709 ppb	54.239 ppb	95.901 %
Concentration per Run 2	54.008 ppb	51.506 ppb	52.079 ppb	5,248.758 ppb	52.081 ppb	53.787 ppb	52.911 ppb	53.884 ppb	97.814 %
Concentration per Run 3	53.423 ppb	52.929 ppb	51.799 ppb	5,284.805 ppb	53.451 ppb	55.061 ppb	54.273 ppb	53.662 ppb	98.145 %
Recovery Percentage 1	108.651 %	105.756 %	104.302 %	106.702 %	107.406 %	109.635 %	108.595 %	107.857 %	
Concentration RSD	2.0 %	2.5 %	0.8 %	2.2 %	3.3 %	1.7 %	2.6 %	0.5 %	1.2 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	54.192 ppb	54.357 ppb	49.019 ppb	53.272 ppb	95.427 %	52.272 ppb	53.371 ppb	93.441 %	52.310 ppb
Concentration per Run 1	53.368 ppb	51.425 ppb	49.235 ppb	52.664 ppb	92.823 %	52.633 ppb	52.775 ppb	90.125 %	52.361 ppb
Concentration per Run 2	53.925 ppb	53.998 ppb	49.297 ppb	53.095 ppb	95.714 %	52.590 ppb	53.929 ppb	92.744 %	53.632 ppb
Concentration per Run 3	55.284 ppb	57.648 ppb	48.525 ppb	54.055 ppb	97.743 %	51.591 ppb	53.408 ppb	97.453 %	50.936 ppb
Recovery Percentage 1	108.385 %	108.713 %	98.038 %	106.543 %		104.543 %	106.742 %		104.619 %
Concentration RSD	1.8 %	5.8 %	0.9 %	1.3 %	2.6 %	1.1 %	1.1 %	4.0 %	2.6 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	50.568 ppb	89.639 %	87.713 %	50.910 ppb	52.249 ppb	105.790 %
Concentration per Run 1	52.275 ppb	85.206 %	83.187 %	51.388 ppb	52.917 ppb	101.964 %
Concentration per Run 2	49.883 ppb	90.636 %	89.726 %	50.673 ppb	52.216 ppb	107.289 %
Concentration per Run 3	49.547 ppb	93.075 %	90.227 %	50.667 ppb	51.613 ppb	108.116 %
Recovery Percentage 1	101.136 %			101.819 %	104.497 %	
Concentration RSD	2.9 %	4.5 %	4.5 %	0.8 %	1.2 %	3.2 %

Alpha ICPMSQ2 Data with SRD

3/5/2024 9:03:09 PM

Analysis index: 11 User name ALPHALAB\a2-icpmsq2 Comment ICB
Analysis label: ICB Rack 0
Analysis started at: 3/5/2024 6:13:51 AM Vial 10

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	95.167 %	96.289 %	0.005 ppb	-1.121 ppb	-0.515 ppb	-1.128 ppb	-1.546 ppb	-1.993 ppb	90.295 %
Concentration per Run 1	94.555 %	94.620 %	0.010 ppb	-2.342 ppb	-1.335 ppb	-1.249 ppb	1.775 ppb	-5.624 ppb	90.214 %
Concentration per Run 2	95.676 %	89.610 %	0.002 ppb	0.782 ppb	-0.343 ppb	-1.422 ppb	1.320 ppb	3.433 ppb	90.456 %
Concentration per Run 3	95.269 %	104.638 %	0.003 ppb	-1.803 ppb	0.132 ppb	-0.714 ppb	-7.734 ppb	-3.786 ppb	90.216 %
Recovery Percentage 1			1.008 %	-1.121 %	-0.736 %	-11.282 %	-1.546 %	-1.993 %	
Concentration RSD	0.6 %	7.9 %	93.4 %	149.0 %	145.2 %	32.7 %	346.9 %	240.3 %	0.2 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.004 ppb	-0.028 ppb	0.000 ppb	4.904 ppb	-0.001 ppb	0.003 ppb	0.012 ppb	0.117 ppb	93.953 %
Concentration per Run 1	-0.015 ppb	-0.027 ppb	0.029 ppb	6.424 ppb	0.006 ppb	0.076 ppb	0.010 ppb	0.148 ppb	90.550 %
Concentration per Run 2	0.016 ppb	-0.037 ppb	0.027 ppb	2.376 ppb	-0.002 ppb	-0.066 ppb	0.027 ppb	0.118 ppb	94.696 %
Concentration per Run 3	0.011 ppb	-0.019 ppb	-0.058 ppb	5.911 ppb	-0.007 ppb	-0.003 ppb	-0.002 ppb	0.085 ppb	96.612 %
Recovery Percentage 1	0.087 %	-2.766 %	-0.046 %	9.807 %	-0.172 %	0.128 %	1.179 %	2.342 %	
Concentration RSD	382.8 %	33.0 %	10,795.3 %	44.9 %	759.9 %	2,789.0 %	122.9 %	26.8 %	3.3 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.048 ppb	0.029 ppb	0.001 ppb	0.069 ppb	90.947 %	0.004 ppb	0.002 ppb	89.934 %	-0.054 ppb
Concentration per Run 1	0.047 ppb	0.091 ppb	-0.007 ppb	0.074 ppb	88.164 %	0.009 ppb	0.009 ppb	85.800 %	-0.051 ppb
Concentration per Run 2	-0.016 ppb	0.002 ppb	0.005 ppb	0.082 ppb	90.762 %	0.002 ppb	-0.001 ppb	89.490 %	-0.052 ppb
Concentration per Run 3	0.113 ppb	-0.007 ppb	0.005 ppb	0.050 ppb	93.917 %	0.001 ppb	-0.001 ppb	94.512 %	-0.060 ppb
Recovery Percentage 1	9.596 %	0.571 %	0.011 %	3.435 %		0.997 %	1.241 %		-1.353 %
Concentration RSD	134.3 %	189.5 %	595.6 %	24.5 %	3.2 %	109.2 %	239.1 %	4.9 %	8.9 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.006 ppb	91.195 %	90.435 %	0.237 ppb	-0.004 ppb	101.319 %
Concentration per Run 1	-0.026 ppb	87.633 %	86.579 %	0.188 ppb	-0.008 ppb	98.966 %
Concentration per Run 2	0.030 ppb	91.001 %	93.169 %	0.292 ppb	-0.001 ppb	100.891 %
Concentration per Run 3	0.014 ppb	94.950 %	91.555 %	0.231 ppb	-0.004 ppb	104.100 %
Recovery Percentage 1	1.224 %			23.690 %	-0.421 %	
Concentration RSD	474.5 %	4.0 %	3.8 %	21.9 %	76.3 %	2.6 %

Alpha ICPMSQ2 Data with SRD

3/5/2024 9:03:09 PM

Analysis index: 12
Analysis label: ICSA
Analysis started at: 3/5/2024 6:20:12 AM
User name ALPHALAB\a2-icpmsq2
Rack 4
Vial 53
Comment <Comment>

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	98.507 %	103.061 %	0.007 ppb	48,273.642 ppb	19,655.382 ppb	17,895.512 ppb	19,548.240 ppb	58,224.138 ppb	75.492 %
Concentration per Run 1	97.856 %	109.369 %	0.006 ppb	46,989.097 ppb	19,136.239 ppb	18,415.552 ppb	19,829.396 ppb	60,439.765 ppb	75.886 %
Concentration per Run 2	99.777 %	97.124 %	0.008 ppb	50,254.779 ppb	20,602.746 ppb	18,442.750 ppb	19,698.804 ppb	57,885.489 ppb	76.040 %
Concentration per Run 3	97.887 %	102.690 %	0.008 ppb	47,577.050 ppb	19,227.160 ppb	16,828.234 ppb	19,116.520 ppb	56,347.159 ppb	74.550 %
Recovery Percentage 1			1.482 %	96.547 %	98.277 %	89.478 %	97.741 %	97.040 %	
Concentration RSD	1.1 %	5.9 %	14.8 %	3.6 %	4.2 %	5.2 %	1.9 %	3.6 %	1.1 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.019 ppb	0.313 ppb	1.002 ppb	49,025.103 ppb	0.438 ppb	0.755 ppb	0.292 ppb	1.075 ppb	100.434 %
Concentration per Run 1	-0.034 ppb	0.299 ppb	1.069 ppb	48,784.145 ppb	0.450 ppb	0.856 ppb	0.313 ppb	0.928 ppb	99.665 %
Concentration per Run 2	-0.032 ppb	0.341 ppb	1.068 ppb	50,465.539 ppb	0.442 ppb	0.846 ppb	0.237 ppb	1.129 ppb	97.601 %
Concentration per Run 3	0.008 ppb	0.300 ppb	0.869 ppb	47,825.626 ppb	0.423 ppb	0.564 ppb	0.328 ppb	1.167 ppb	104.036 %
Recovery Percentage 1	-0.772 %	31.306 %	100.204 %	98.050 %	87.692 %	37.768 %	29.230 %	21.493 %	
Concentration RSD	123.7 %	7.6 %	11.5 %	2.7 %	3.2 %	21.9 %	16.7 %	12.0 %	3.3 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.119 ppb	0.609 ppb	0.521 ppb	412.954 ppb	93.618 %	0.004 ppb	0.087 ppb	96.262 %	-0.007 ppb
Concentration per Run 1	0.072 ppb	0.662 ppb	0.542 ppb	417.012 ppb	94.180 %	0.004 ppb	0.076 ppb	97.178 %	-0.011 ppb
Concentration per Run 2	0.117 ppb	0.470 ppb	0.514 ppb	414.308 ppb	92.031 %	0.001 ppb	0.094 ppb	94.324 %	-0.010 ppb
Concentration per Run 3	0.167 ppb	0.696 ppb	0.506 ppb	407.542 ppb	94.643 %	0.005 ppb	0.091 ppb	97.285 %	0.002 ppb
Recovery Percentage 1	23.777 %	12.184 %	104.145 %	103.239 %		0.913 %	43.632 %		-0.163 %
Concentration RSD	39.9 %	20.0 %	3.6 %	1.2 %	1.5 %	53.7 %	11.1 %	1.7 %	107.2 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.255 ppb	66.989 %	61.911 %	0.069 ppb	0.407 ppb	106.638 %
Concentration per Run 1	0.363 ppb	66.098 %	62.211 %	0.057 ppb	0.388 ppb	105.235 %
Concentration per Run 2	0.243 ppb	66.450 %	61.142 %	0.075 ppb	0.427 ppb	105.956 %
Concentration per Run 3	0.158 ppb	68.420 %	62.380 %	0.074 ppb	0.406 ppb	108.724 %
Recovery Percentage 1	50.958 %			6.861 %	40.696 %	
Concentration RSD	40.5 %	1.9 %	1.1 %	15.1 %	4.9 %	1.7 %

Alpha ICPMSQ2 Data with SRD

3/5/2024 9:03:09 PM

Analysis index:	13	User name	ALPHALAB\a2-icpmsq2	Comment	<Comment>
Analysis label:	LDR Check - 1ppm	Rack	4		
Analysis started at:	3/5/2024 6:24:42 AM	Vial	1		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	102.195 %	105.751 %	0.003 ppb	8.239 ppb	2.487 ppb	2.167 ppb	1.860 ppb	18.625 ppb	101.685 %
Concentration per Run 1	101.739 %	110.482 %	0.003 ppb	3.949 ppb	2.004 ppb	2.034 ppb	3.146 ppb	11.829 ppb	101.833 %
Concentration per Run 2	103.305 %	96.011 %	0.005 ppb	12.871 ppb	2.680 ppb	2.419 ppb	5.943 ppb	15.216 ppb	102.143 %
Concentration per Run 3	101.541 %	110.761 %	0.003 ppb	7.896 ppb	2.778 ppb	2.049 ppb	-3.509 ppb	28.829 ppb	101.080 %
Concentration RSD	0.9 %	8.0 %	35.9 %	54.3 %	16.9 %	10.1 %	261.0 %	48.3 %	0.5 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.006 ppb	0.033 ppb	1,029.783 ppb	15.723 ppb	0.057 ppb	0.113 ppb	1,069.472 ppb	1,062.806 ppb	103.028 %
Concentration per Run 1	-0.020 ppb	0.034 ppb	1,016.518 ppb	17.911 ppb	0.043 ppb	0.107 ppb	1,076.828 ppb	1,065.407 ppb	101.341 %
Concentration per Run 2	-0.003 ppb	0.039 ppb	1,071.825 ppb	16.788 ppb	0.079 ppb	0.230 ppb	1,102.859 ppb	1,092.385 ppb	101.148 %
Concentration per Run 3	0.005 ppb	0.026 ppb	1,001.008 ppb	12.471 ppb	0.048 ppb	0.002 ppb	1,028.727 ppb	1,030.627 ppb	106.596 %
Concentration RSD	212.4 %	19.6 %	3.6 %	18.3 %	35.1 %	100.7 %	3.5 %	2.9 %	3.0 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.031 ppb	0.002 ppb	0.038 ppb	0.547 ppb	103.726 %	0.005 ppb	0.010 ppb	102.039 %	0.058 ppb
Concentration per Run 1	0.016 ppb	-0.068 ppb	0.036 ppb	0.403 ppb	100.256 %	0.004 ppb	0.005 ppb	98.154 %	-0.080 ppb
Concentration per Run 2	0.023 ppb	-0.039 ppb	0.039 ppb	0.647 ppb	104.378 %	0.005 ppb	0.008 ppb	102.510 %	0.326 ppb
Concentration per Run 3	0.053 ppb	0.112 ppb	0.040 ppb	0.592 ppb	106.543 %	0.006 ppb	0.016 ppb	105.454 %	-0.073 ppb
Concentration RSD	64.0 %	6,021.3 %	5.5 %	23.4 %	3.1 %	23.2 %	59.2 %	3.6 %	404.4 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	938.250 ppb	102.717 %	102.120 %	0.035 ppb	926.870 ppb	115.747 %
Concentration per Run 1	959.331 ppb	101.013 %	100.367 %	0.017 ppb	924.852 ppb	113.251 %
Concentration per Run 2	929.847 ppb	102.256 %	101.724 %	0.040 ppb	925.756 ppb	116.057 %
Concentration per Run 3	925.573 ppb	104.881 %	104.269 %	0.048 ppb	930.004 ppb	117.934 %
Concentration RSD	2.0 %	1.9 %	1.9 %	45.1 %	0.3 %	2.0 %

Alpha ICPMSQ2 Data with SRD

3/5/2024 9:03:09 PM

Analysis index:	14	User name	ALPHALAB\a2-icpmsq2	Comment	<Comment>
Analysis label:	Rinse	Rack	0		
Analysis started at:	3/5/2024 6:30:36 AM	Vial	1		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	100.258 %	110.946 %	0.026 ppb	12.501 ppb	4.820 ppb	0.217 ppb	11.260 ppb	52.233 ppb	96.935 %
Concentration per Run 1	100.155 %	114.657 %	0.016 ppb	13.550 ppb	3.297 ppb	0.669 ppb	15.987 ppb	68.057 ppb	96.562 %
Concentration per Run 2	100.195 %	109.369 %	0.027 ppb	12.820 ppb	2.567 ppb	0.091 ppb	12.301 ppb	45.509 ppb	96.994 %
Concentration per Run 3	100.424 %	108.813 %	0.033 ppb	11.133 ppb	8.595 ppb	-0.111 ppb	5.493 ppb	43.132 ppb	97.250 %
Concentration RSD	0.1 %	2.9 %	33.9 %	9.9 %	68.2 %	186.9 %	47.3 %	26.3 %	0.4 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.036 ppb	0.021 ppb	0.189 ppb	11.890 ppb	0.016 ppb	0.473 ppb	0.274 ppb	3.883 ppb	100.085 %
Concentration per Run 1	0.107 ppb	0.022 ppb	0.221 ppb	7.798 ppb	0.024 ppb	0.470 ppb	0.263 ppb	3.920 ppb	98.394 %
Concentration per Run 2	0.048 ppb	0.021 ppb	0.232 ppb	14.868 ppb	0.008 ppb	0.596 ppb	0.251 ppb	3.687 ppb	103.722 %
Concentration per Run 3	-0.048 ppb	0.020 ppb	0.113 ppb	13.004 ppb	0.017 ppb	0.355 ppb	0.309 ppb	4.041 ppb	98.140 %
Concentration RSD	218.7 %	5.2 %	35.0 %	30.8 %	48.0 %	25.4 %	11.1 %	4.6 %	3.1 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	-0.022 ppb	0.041 ppb	0.049 ppb	0.120 ppb	103.309 %	0.016 ppb	0.020 ppb	101.734 %	-0.063 ppb
Concentration per Run 1	0.007 ppb	-0.053 ppb	0.044 ppb	0.121 ppb	102.017 %	0.017 ppb	0.019 ppb	101.875 %	-0.068 ppb
Concentration per Run 2	-0.051 ppb	0.163 ppb	0.050 ppb	0.117 ppb	105.315 %	0.014 ppb	0.019 ppb	103.109 %	-0.071 ppb
Concentration per Run 3	-0.020 ppb	0.011 ppb	0.052 ppb	0.121 ppb	102.595 %	0.017 ppb	0.023 ppb	100.219 %	-0.051 ppb
Concentration RSD	133.9 %	273.5 %	9.1 %	2.1 %	1.7 %	11.0 %	9.4 %	1.4 %	16.4 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.028 ppb	102.428 %	103.766 %	0.037 ppb	0.053 ppb	117.001 %
Concentration per Run 1	0.037 ppb	101.133 %	102.096 %	0.034 ppb	0.049 ppb	115.631 %
Concentration per Run 2	0.011 ppb	104.566 %	104.305 %	0.036 ppb	0.059 ppb	119.831 %
Concentration per Run 3	0.037 ppb	101.585 %	104.899 %	0.041 ppb	0.052 ppb	115.541 %
Concentration RSD	53.7 %	1.8 %	1.4 %	8.9 %	9.3 %	2.1 %

Alpha ICPMSQ2 Data with SRD

3/5/2024 9:03:09 PM

Analysis index:	15	User name	ALPHALAB\a2-icpmsq2	Comment	CCV/MCCV
Analysis label:	CCV	Rack	0		
Analysis started at:	3/5/2024 6:35:02 AM	Vial	9		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	102.681 %	112.523 %	62.942 ppb	5,923.248 ppb	5,975.617 ppb	59.501 ppb	5,957.754 ppb	6,166.295 ppb	97.998 %
Concentration per Run 1	102.748 %	111.874 %	63.039 ppb	6,019.986 ppb	6,122.530 ppb	64.119 ppb	6,218.494 ppb	6,291.671 ppb	97.764 %
Concentration per Run 2	102.575 %	110.204 %	63.440 ppb	5,957.805 ppb	5,964.876 ppb	58.206 ppb	5,901.627 ppb	6,034.096 ppb	96.938 %
Concentration per Run 3	102.721 %	115.492 %	62.348 ppb	5,791.953 ppb	5,839.443 ppb	56.179 ppb	5,753.141 ppb	6,173.120 ppb	99.292 %
Recovery Percentage 1			104.904 %	98.721 %	99.594 %	99.169 %	99.296 %	102.772 %	
Concentration RSD	0.1 %	2.4 %	0.9 %	2.0 %	2.4 %	6.9 %	4.0 %	2.1 %	1.2 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	62.240 ppb	62.494 ppb	60.812 ppb	6,184.373 ppb	63.249 ppb	63.246 ppb	64.323 ppb	64.125 ppb	105.843 %
Concentration per Run 1	63.190 ppb	62.344 ppb	62.253 ppb	6,169.974 ppb	62.348 ppb	63.070 ppb	63.602 ppb	64.458 ppb	107.813 %
Concentration per Run 2	60.940 ppb	62.860 ppb	61.421 ppb	6,265.526 ppb	64.603 ppb	64.156 ppb	64.855 ppb	64.439 ppb	103.935 %
Concentration per Run 3	62.589 ppb	62.279 ppb	58.763 ppb	6,117.620 ppb	62.796 ppb	62.512 ppb	64.510 ppb	63.477 ppb	105.780 %
Recovery Percentage 1	103.733 %	104.157 %	101.354 %	103.073 %	105.415 %	105.410 %	107.204 %	106.874 %	
Concentration RSD	1.9 %	0.5 %	3.0 %	1.2 %	1.9 %	1.3 %	1.0 %	0.9 %	1.8 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	62.067 ppb	60.726 ppb	60.114 ppb	61.040 ppb	104.585 %	61.113 ppb	61.048 ppb	102.863 %	56.018 ppb
Concentration per Run 1	61.755 ppb	61.223 ppb	63.831 ppb	62.189 ppb	104.707 %	60.689 ppb	60.177 ppb	105.640 %	56.407 ppb
Concentration per Run 2	62.801 ppb	63.992 ppb	59.453 ppb	61.607 ppb	106.671 %	60.179 ppb	61.582 ppb	103.989 %	56.301 ppb
Concentration per Run 3	61.646 ppb	56.963 ppb	57.057 ppb	59.323 ppb	102.376 %	62.471 ppb	61.384 ppb	98.962 %	55.345 ppb
Recovery Percentage 1	103.446 %	101.210 %	100.190 %	101.733 %		101.855 %	101.746 %		93.363 %
Concentration RSD	1.0 %	5.8 %	5.7 %	2.5 %	2.1 %	2.0 %	1.2 %	3.4 %	1.0 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	57.959 ppb	98.873 %	96.846 %	58.854 ppb	59.627 ppb	117.388 %
Concentration per Run 1	57.826 ppb	99.136 %	99.170 %	58.289 ppb	59.342 ppb	117.580 %
Concentration per Run 2	57.894 ppb	99.401 %	96.740 %	58.353 ppb	60.052 ppb	115.778 %
Concentration per Run 3	58.157 ppb	98.083 %	94.626 %	59.919 ppb	59.486 ppb	118.806 %
Recovery Percentage 1	96.598 %			98.090 %	99.378 %	
Concentration RSD	0.3 %	0.7 %	2.3 %	1.6 %	0.6 %	1.3 %

Alpha ICPMSQ2 Data with SRD

3/5/2024 9:03:09 PM

Analysis index: 16 User name ALPHALAB\a2-icpmsq2 Comment CCB
Analysis label: CCB Rack 0
Analysis started at: 3/5/2024 6:39:32 AM Vial 10

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	96.853 %	100.186 %	0.004 ppb	-3.552 ppb	-1.137 ppb	-0.682 ppb	4.138 ppb	-1.474 ppb	94.669 %
Concentration per Run 1	98.191 %	93.785 %	0.003 ppb	-3.613 ppb	-1.335 ppb	-0.733 ppb	10.414 ppb	-1.397 ppb	95.078 %
Concentration per Run 2	96.402 %	107.421 %	0.006 ppb	-6.042 ppb	-1.048 ppb	-0.815 ppb	2.076 ppb	-1.701 ppb	94.093 %
Concentration per Run 3	95.966 %	99.351 %	0.004 ppb	-1.000 ppb	-1.028 ppb	-0.498 ppb	-0.077 ppb	-1.324 ppb	94.836 %
Recovery Percentage 1			0.864 %	-3.552 %	-1.624 %	-6.818 %	4.138 %	-1.474 %	
Concentration RSD	1.2 %	6.8 %	38.8 %	71.0 %	15.1 %	24.2 %	133.9 %	13.6 %	0.5 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.032 ppb	-0.035 ppb	-0.005 ppb	6.382 ppb	-0.001 ppb	-0.039 ppb	-0.005 ppb	0.050 ppb	96.902 %
Concentration per Run 1	-0.032 ppb	-0.035 ppb	0.002 ppb	5.211 ppb	-0.003 ppb	-0.074 ppb	0.015 ppb	0.068 ppb	99.352 %
Concentration per Run 2	-0.048 ppb	-0.040 ppb	0.019 ppb	4.728 ppb	0.005 ppb	-0.048 ppb	-0.020 ppb	0.078 ppb	97.436 %
Concentration per Run 3	-0.017 ppb	-0.029 ppb	-0.036 ppb	9.208 ppb	-0.007 ppb	0.005 ppb	-0.010 ppb	0.003 ppb	93.919 %
Recovery Percentage 1	-0.644 %	-3.459 %	-0.532 %	12.765 %	-0.255 %	-1.951 %	-0.471 %	0.991 %	
Concentration RSD	48.6 %	15.2 %	527.1 %	38.5 %	468.9 %	103.6 %	382.6 %	82.2 %	2.8 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.043 ppb	0.093 ppb	-0.004 ppb	0.140 ppb	99.159 %	0.003 ppb	0.003 ppb	97.680 %	0.109 ppb
Concentration per Run 1	-0.008 ppb	0.023 ppb	-0.003 ppb	0.086 ppb	97.884 %	0.002 ppb	0.008 ppb	100.524 %	0.074 ppb
Concentration per Run 2	0.076 ppb	0.105 ppb	-0.003 ppb	0.180 ppb	100.300 %	0.003 ppb	-0.001 ppb	96.839 %	0.144 ppb
Concentration per Run 3	0.062 ppb	0.151 ppb	-0.006 ppb	0.154 ppb	99.292 %	0.002 ppb	0.002 ppb	95.678 %	0.110 ppb
Recovery Percentage 1	8.694 %	1.856 %	-0.042 %	7.006 %		0.630 %	1.527 %		2.728 %
Concentration RSD	103.5 %	70.0 %	39.8 %	34.5 %	1.2 %	20.7 %	148.7 %	2.6 %	32.1 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.022 ppb	97.045 %	97.629 %	0.206 ppb	0.000 ppb	107.739 %
Concentration per Run 1	0.000 ppb	96.515 %	96.010 %	0.154 ppb	-0.001 ppb	106.606 %
Concentration per Run 2	0.000 ppb	96.939 %	97.579 %	0.260 ppb	0.000 ppb	108.243 %
Concentration per Run 3	0.066 ppb	97.679 %	99.299 %	0.202 ppb	0.001 ppb	108.368 %
Recovery Percentage 1	4.392 %			20.568 %	-0.026 %	
Concentration RSD	173.7 %	0.6 %	1.7 %	25.7 %	329.1 %	0.9 %

Alpha ICPMSQ2 Data with SRD

3/5/2024 9:03:09 PM

Analysis index: 17 User name ALPHALAB\a2-icpmsq2 Comment <Comment>
Analysis label: ICSA Rack 4
Analysis started at: 3/5/2024 6:47:18 AM Vial 53

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	99.038 %	101.113 %	0.009 ppb	50,063.629 ppb	20,511.665 ppb	18,290.441 ppb	20,319.849 ppb	59,123.022 ppb	76.912 %
Concentration per Run 1	99.791 %	99.072 %	0.009 ppb	49,570.012 ppb	20,109.593 ppb	17,853.227 ppb	19,860.797 ppb	57,276.860 ppb	77.648 %
Concentration per Run 2	98.719 %	101.299 %	0.009 ppb	49,648.869 ppb	19,985.248 ppb	17,928.392 ppb	20,434.750 ppb	58,838.821 ppb	76.698 %
Concentration per Run 3	98.604 %	102.968 %	0.008 ppb	50,972.005 ppb	21,440.154 ppb	19,089.705 ppb	20,663.999 ppb	61,253.384 ppb	76.391 %
Recovery Percentage 1			1.777 %	100.127 %	102.558 %	91.452 %	101.599 %	98.538 %	
Concentration RSD	0.7 %	1.9 %	4.5 %	1.6 %	3.9 %	3.8 %	2.0 %	3.4 %	0.9 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.011 ppb	0.315 ppb	1.039 ppb	49,444.568 ppb	0.469 ppb	0.613 ppb	0.241 ppb	1.080 ppb	107.410 %
Concentration per Run 1	0.008 ppb	0.293 ppb	0.998 ppb	48,770.857 ppb	0.470 ppb	0.762 ppb	0.169 ppb	1.076 ppb	105.533 %
Concentration per Run 2	-0.005 ppb	0.328 ppb	1.060 ppb	50,332.528 ppb	0.444 ppb	0.527 ppb	0.319 ppb	1.017 ppb	101.584 %
Concentration per Run 3	0.030 ppb	0.326 ppb	1.058 ppb	49,230.320 ppb	0.494 ppb	0.550 ppb	0.236 ppb	1.148 ppb	115.113 %
Recovery Percentage 1	0.448 %	31.545 %	103.856 %	98.889 %	93.855 %	30.655 %	24.121 %	21.607 %	
Concentration RSD	155.7 %	6.3 %	3.4 %	1.6 %	5.3 %	21.1 %	31.3 %	6.0 %	6.5 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.068 ppb	0.866 ppb	0.507 ppb	412.538 ppb	100.983 %	0.004 ppb	0.088 ppb	103.289 %	0.047 ppb
Concentration per Run 1	0.043 ppb	1.008 ppb	0.489 ppb	408.124 ppb	97.589 %	0.001 ppb	0.072 ppb	97.471 %	0.038 ppb
Concentration per Run 2	0.081 ppb	0.752 ppb	0.511 ppb	421.808 ppb	101.560 %	0.008 ppb	0.125 ppb	100.805 %	0.077 ppb
Concentration per Run 3	0.081 ppb	0.838 ppb	0.520 ppb	407.683 ppb	103.801 %	0.002 ppb	0.067 ppb	111.591 %	0.025 ppb
Recovery Percentage 1	13.684 %	17.319 %	101.331 %	103.135 %		0.977 %	44.088 %		1.170 %
Concentration RSD	32.6 %	15.1 %	3.1 %	1.9 %	3.1 %	101.5 %	36.6 %	7.1 %	57.5 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.320 ppb	71.872 %	67.188 %	0.039 ppb	0.416 ppb	115.701 %
Concentration per Run 1	0.398 ppb	70.390 %	64.708 %	0.024 ppb	0.397 ppb	113.010 %
Concentration per Run 2	0.314 ppb	71.015 %	65.506 %	0.046 ppb	0.431 ppb	113.444 %
Concentration per Run 3	0.248 ppb	74.212 %	71.349 %	0.046 ppb	0.421 ppb	120.647 %
Recovery Percentage 1	64.022 %			3.889 %	41.648 %	
Concentration RSD	23.6 %	2.9 %	5.4 %	32.6 %	4.3 %	3.7 %

Alpha ICPMSQ2 Data with SRD

3/5/2024 9:03:09 PM

Analysis index:	18	User name	ALPHALAB\a2-icpmsq2	Comment	<Comment>
Analysis label:	Rinse	Rack	0		
Analysis started at:	3/5/2024 6:51:45 AM	Vial	1		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	92.770 %	95.918 %	0.023 ppb	22.802 ppb	3.872 ppb	0.309 ppb	20.397 ppb	42.026 ppb	88.705 %
Concentration per Run 1	91.467 %	90.167 %	0.020 ppb	22.934 ppb	3.720 ppb	0.276 ppb	18.980 ppb	25.261 ppb	88.734 %
Concentration per Run 2	93.438 %	92.950 %	0.026 ppb	25.024 ppb	2.644 ppb	0.249 ppb	12.717 ppb	51.727 ppb	89.163 %
Concentration per Run 3	93.405 %	104.638 %	0.023 ppb	20.450 ppb	5.252 ppb	0.401 ppb	29.495 ppb	49.090 ppb	88.218 %
Concentration RSD	1.2 %	8.0 %	13.1 %	10.0 %	33.9 %	26.3 %	41.6 %	34.7 %	0.5 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.009 ppb	-0.003 ppb	0.126 ppb	20.955 ppb	0.021 ppb	0.399 ppb	0.273 ppb	3.758 ppb	86.570 %
Concentration per Run 1	-0.029 ppb	0.003 ppb	0.167 ppb	18.848 ppb	0.020 ppb	0.396 ppb	0.210 ppb	3.642 ppb	86.613 %
Concentration per Run 2	-0.012 ppb	0.018 ppb	0.059 ppb	26.659 ppb	0.025 ppb	0.437 ppb	0.285 ppb	3.708 ppb	84.384 %
Concentration per Run 3	0.015 ppb	-0.028 ppb	0.151 ppb	17.357 ppb	0.019 ppb	0.363 ppb	0.323 ppb	3.923 ppb	88.712 %
Concentration RSD	261.4 %	891.0 %	46.6 %	23.8 %	15.4 %	9.3 %	21.1 %	3.9 %	2.5 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.063 ppb	0.098 ppb	0.057 ppb	0.570 ppb	86.179 %	0.019 ppb	0.020 ppb	85.806 %	-0.044 ppb
Concentration per Run 1	0.048 ppb	0.157 ppb	0.050 ppb	0.539 ppb	82.829 %	0.017 ppb	0.021 ppb	82.465 %	-0.082 ppb
Concentration per Run 2	0.099 ppb	0.141 ppb	0.055 ppb	0.539 ppb	83.741 %	0.018 ppb	0.021 ppb	82.612 %	-0.044 ppb
Concentration per Run 3	0.043 ppb	-0.005 ppb	0.065 ppb	0.631 ppb	91.967 %	0.021 ppb	0.018 ppb	92.341 %	-0.007 ppb
Concentration RSD	49.3 %	91.6 %	14.0 %	9.3 %	5.8 %	11.2 %	6.4 %	6.6 %	84.9 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.043 ppb	87.336 %	87.695 %	0.041 ppb	0.034 ppb	100.498 %
Concentration per Run 1	0.051 ppb	83.207 %	82.928 %	0.034 ppb	0.036 ppb	96.413 %
Concentration per Run 2	0.035 ppb	85.035 %	84.328 %	0.043 ppb	0.030 ppb	97.376 %
Concentration per Run 3	0.042 ppb	93.766 %	95.831 %	0.045 ppb	0.036 ppb	107.706 %
Concentration RSD	18.9 %	6.5 %	8.1 %	14.8 %	9.2 %	6.2 %

Alpha ICPMSQ2 Data with SRD

3/5/2024 9:03:09 PM

Analysis index:	19	User name	ALPHALAB\a2-icpmsq2	Comment	CCV/MCCV
Analysis label:	CCV	Rack	0		
Analysis started at:	3/5/2024 6:56:10 AM	Vial	9		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	96.851 %	102.412 %	62.825 ppb	5,786.184 ppb	5,804.273 ppb	56.674 ppb	5,689.064 ppb	5,895.407 ppb	89.773 %
Concentration per Run 1	98.257 %	99.072 %	62.849 ppb	5,865.686 ppb	5,878.798 ppb	57.982 ppb	5,813.350 ppb	5,954.850 ppb	91.972 %
Concentration per Run 2	96.149 %	105.751 %	62.374 ppb	5,552.317 ppb	5,574.090 ppb	54.185 ppb	5,391.371 ppb	5,602.389 ppb	88.759 %
Concentration per Run 3	96.146 %	102.412 %	63.253 ppb	5,940.548 ppb	5,959.932 ppb	57.855 ppb	5,862.472 ppb	6,128.981 ppb	88.588 %
Recovery Percentage 1			104.709 %	96.436 %	96.738 %	94.457 %	94.818 %	98.257 %	
Concentration RSD	1.3 %	3.3 %	0.7 %	3.6 %	3.5 %	3.8 %	4.6 %	4.6 %	2.1 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	59.128 ppb	59.738 ppb	58.936 ppb	6,018.036 ppb	60.894 ppb	61.566 ppb	60.555 ppb	61.893 ppb	98.791 %
Concentration per Run 1	60.995 ppb	62.404 ppb	61.946 ppb	6,296.372 ppb	63.082 ppb	63.649 ppb	63.137 ppb	63.646 ppb	93.383 %
Concentration per Run 2	57.513 ppb	56.958 ppb	56.356 ppb	5,829.432 ppb	59.171 ppb	59.407 ppb	58.906 ppb	60.226 ppb	102.755 %
Concentration per Run 3	58.876 ppb	59.851 ppb	58.507 ppb	5,928.304 ppb	60.430 ppb	61.642 ppb	59.622 ppb	61.807 ppb	100.234 %
Recovery Percentage 1	98.547 %	99.563 %	98.227 %	100.301 %	101.490 %	102.610 %	100.925 %	103.155 %	
Concentration RSD	3.0 %	4.6 %	4.8 %	4.1 %	3.3 %	3.4 %	3.7 %	2.8 %	4.9 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	61.457 ppb	59.920 ppb	59.453 ppb	60.829 ppb	93.904 %	61.833 ppb	62.011 ppb	93.077 %	56.587 ppb
Concentration per Run 1	62.858 ppb	59.543 ppb	59.811 ppb	59.784 ppb	93.680 %	61.163 ppb	61.807 ppb	91.426 %	56.830 ppb
Concentration per Run 2	59.094 ppb	60.951 ppb	58.420 ppb	59.554 ppb	95.104 %	61.675 ppb	61.373 ppb	94.548 %	55.701 ppb
Concentration per Run 3	62.418 ppb	59.267 ppb	60.128 ppb	63.149 ppb	92.928 %	62.660 ppb	62.853 ppb	93.257 %	57.228 ppb
Recovery Percentage 1	102.428 %	99.867 %	99.088 %	101.381 %		103.055 %	103.352 %		94.311 %
Concentration RSD	3.3 %	1.5 %	1.5 %	3.3 %	1.2 %	1.2 %	1.2 %	1.7 %	1.4 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	59.483 ppb	89.473 %	87.609 %	60.355 ppb	60.360 ppb	105.590 %
Concentration per Run 1	59.524 ppb	87.451 %	85.609 %	59.714 ppb	59.910 ppb	103.421 %
Concentration per Run 2	58.266 ppb	89.674 %	86.973 %	60.329 ppb	61.266 ppb	105.243 %
Concentration per Run 3	60.660 ppb	91.295 %	90.243 %	61.022 ppb	59.904 ppb	108.106 %
Recovery Percentage 1	99.139 %			100.592 %	100.600 %	
Concentration RSD	2.0 %	2.2 %	2.7 %	1.1 %	1.3 %	2.2 %

Alpha ICPMSQ2 Data with SRD

3/5/2024 9:03:09 PM

Analysis index:	20	User name	ALPHALAB\a2-icpmsq2	Comment	CCB
Analysis label:	CCB	Rack	0		
Analysis started at:	3/5/2024 7:00:40 AM	Vial	10		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	89.798 %	91.744 %	0.006 ppb	1.214 ppb	-0.680 ppb	-1.224 ppb	8.628 ppb	0.247 ppb	83.535 %
Concentration per Run 1	89.568 %	83.766 %	0.006 ppb	4.003 ppb	-1.335 ppb	-1.390 ppb	9.981 ppb	-0.013 ppb	84.035 %
Concentration per Run 2	90.041 %	90.723 %	0.003 ppb	1.511 ppb	0.008 ppb	-0.760 ppb	4.570 ppb	4.101 ppb	83.009 %
Concentration per Run 3	89.785 %	100.742 %	0.008 ppb	-1.872 ppb	-0.714 ppb	-1.523 ppb	11.333 ppb	-3.348 ppb	83.561 %
Recovery Percentage 1			1.125 %	1.214 %	-0.972 %	-12.244 %	8.628 %	0.247 %	
Concentration RSD	0.3 %	9.3 %	45.9 %	242.9 %	98.9 %	33.3 %	41.5 %	1,510.6 %	0.6 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.022 ppb	-0.027 ppb	-0.043 ppb	7.202 ppb	0.009 ppb	-0.008 ppb	-0.004 ppb	0.035 ppb	83.182 %
Concentration per Run 1	-0.007 ppb	-0.030 ppb	-0.024 ppb	5.722 ppb	0.008 ppb	0.022 ppb	-0.015 ppb	0.002 ppb	77.334 %
Concentration per Run 2	-0.062 ppb	-0.020 ppb	-0.053 ppb	10.529 ppb	0.007 ppb	-0.052 ppb	-0.017 ppb	0.042 ppb	86.226 %
Concentration per Run 3	0.002 ppb	-0.031 ppb	-0.054 ppb	5.355 ppb	0.011 ppb	0.006 ppb	0.022 ppb	0.062 ppb	85.986 %
Recovery Percentage 1	-0.450 %	-2.728 %	-4.346 %	14.404 %	1.751 %	-0.404 %	-0.355 %	0.704 %	
Concentration RSD	154.6 %	21.9 %	39.4 %	40.1 %	23.6 %	484.1 %	616.2 %	87.3 %	6.1 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.009 ppb	0.017 ppb	-0.004 ppb	0.188 ppb	83.366 %	0.002 ppb	0.000 ppb	81.733 %	0.086 ppb
Concentration per Run 1	0.025 ppb	0.052 ppb	-0.003 ppb	0.171 ppb	76.801 %	0.002 ppb	-0.001 ppb	75.175 %	0.068 ppb
Concentration per Run 2	-0.045 ppb	0.007 ppb	-0.006 ppb	0.196 ppb	86.374 %	0.002 ppb	0.003 ppb	83.766 %	0.083 ppb
Concentration per Run 3	0.048 ppb	-0.010 ppb	-0.004 ppb	0.196 ppb	86.924 %	0.002 ppb	-0.001 ppb	86.259 %	0.107 ppb
Recovery Percentage 1	1.896 %	0.333 %	-0.041 %	9.394 %		0.456 %	0.112 %		2.149 %
Concentration RSD	509.6 %	192.8 %	35.6 %	7.6 %	6.8 %	13.2 %	904.3 %	7.1 %	23.0 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.012 ppb	83.201 %	82.753 %	0.211 ppb	-0.003 ppb	91.916 %
Concentration per Run 1	0.058 ppb	75.871 %	75.506 %	0.181 ppb	-0.006 ppb	84.096 %
Concentration per Run 2	-0.011 ppb	84.991 %	84.545 %	0.252 ppb	-0.002 ppb	94.185 %
Concentration per Run 3	-0.012 ppb	88.740 %	88.208 %	0.200 ppb	-0.001 ppb	97.468 %
Recovery Percentage 1	2.368 %			21.100 %	-0.324 %	
Concentration RSD	338.4 %	8.0 %	7.9 %	17.3 %	87.1 %	7.6 %

Alpha ICPMSQ2 Data with SRD

3/5/2024 9:03:09 PM

Analysis index: 21
Analysis label: WG1891910-1 6020TL
Analysis started at: 3/5/2024 7:14:08 AM
User name ALPHALAB\a2-icpmsq2
Rack 1
Vial 1
Comment <Comment>

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	95.120 %	103.896 %	0.003 ppb	24.184 ppb	1.501 ppb	0.053 ppb	-1.306 ppb	7.871 ppb	89.083 %
Concentration per Run 1	93.778 %	114.935 %	0.004 ppb	15.328 ppb	0.059 ppb	0.028 ppb	-0.953 ppb	6.787 ppb	90.113 %
Concentration per Run 2	95.911 %	96.568 %	0.001 ppb	26.341 ppb	3.335 ppb	0.036 ppb	-4.872 ppb	11.729 ppb	87.797 %
Concentration per Run 3	95.672 %	100.186 %	0.003 ppb	30.883 ppb	1.110 ppb	0.094 ppb	1.907 ppb	5.097 ppb	89.341 %
Concentration RSD	1.2 %	9.4 %	64.2 %	33.1 %	111.4 %	68.5 %	260.5 %	43.8 %	1.3 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.012 ppb	-0.035 ppb	0.044 ppb	1.285 ppb	0.000 ppb	0.040 ppb	0.060 ppb	0.453 ppb	92.790 %
Concentration per Run 1	-0.047 ppb	-0.038 ppb	0.024 ppb	0.789 ppb	0.006 ppb	0.083 ppb	0.019 ppb	0.470 ppb	88.290 %
Concentration per Run 2	0.013 ppb	-0.017 ppb	0.023 ppb	1.895 ppb	-0.002 ppb	0.045 ppb	0.088 ppb	0.428 ppb	96.643 %
Concentration per Run 3	-0.001 ppb	-0.051 ppb	0.085 ppb	1.170 ppb	-0.002 ppb	-0.009 ppb	0.072 ppb	0.463 ppb	93.439 %
Concentration RSD	270.1 %	48.1 %	81.0 %	43.7 %	1,403.6 %	116.9 %	60.2 %	4.9 %	4.5 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.037 ppb	-0.036 ppb	0.011 ppb	0.040 ppb	94.013 %	0.001 ppb	0.002 ppb	91.498 %	-0.057 ppb
Concentration per Run 1	0.081 ppb	-0.012 ppb	0.012 ppb	0.041 ppb	92.427 %	0.003 ppb	-0.001 ppb	88.524 %	-0.057 ppb
Concentration per Run 2	0.002 ppb	-0.052 ppb	0.006 ppb	0.020 ppb	94.790 %	0.000 ppb	0.005 ppb	92.155 %	-0.060 ppb
Concentration per Run 3	0.028 ppb	-0.044 ppb	0.013 ppb	0.060 ppb	94.823 %	0.001 ppb	0.002 ppb	93.815 %	-0.053 ppb
Concentration RSD	108.8 %	58.5 %	36.3 %	49.8 %	1.5 %	71.7 %	142.9 %	3.0 %	5.5 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.006 ppb	91.688 %	91.840 %	0.021 ppb	-0.010 ppb	107.029 %
Concentration per Run 1	-0.012 ppb	89.969 %	89.224 %	0.010 ppb	-0.011 ppb	102.928 %
Concentration per Run 2	0.015 ppb	91.326 %	91.716 %	0.027 ppb	-0.011 ppb	109.273 %
Concentration per Run 3	0.015 ppb	93.768 %	94.579 %	0.025 ppb	-0.009 ppb	108.886 %
Concentration RSD	255.5 %	2.1 %	2.9 %	46.5 %	6.7 %	3.3 %

Alpha ICPMSQ2 Data with SRD

3/5/2024 9:03:09 PM

Analysis index:	22	User name	ALPHALAB\a2-icpmsq2	Comment	<Comment>
Analysis label:	WG1891910-2d20 6020TL	Rack	1		
Analysis started at:	3/5/2024 7:18:34 AM	Vial	2		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	94.951 %	99.443 %	2.897 ppb	512.242 ppb	493.453 ppb	108.191 ppb	497.352 ppb	510.258 ppb	89.945 %
Concentration per Run 1	94.012 %	91.837 %	2.921 ppb	533.897 ppb	508.278 ppb	117.727 ppb	531.887 ppb	598.263 ppb	88.771 %
Concentration per Run 2	95.446 %	102.134 %	2.872 ppb	492.489 ppb	493.007 ppb	107.646 ppb	467.327 ppb	464.025 ppb	90.350 %
Concentration per Run 3	95.396 %	104.360 %	2.899 ppb	510.340 ppb	479.075 ppb	99.199 ppb	492.842 ppb	468.485 ppb	90.714 %
Concentration RSD	0.9 %	6.7 %	0.8 %	4.1 %	3.0 %	8.6 %	6.5 %	14.9 %	1.1 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	26.742 ppb	10.370 ppb	25.639 ppb	54.883 ppb	26.216 ppb	27.453 ppb	13.754 ppb	27.240 ppb	95.062 %
Concentration per Run 1	27.942 ppb	10.616 ppb	26.057 ppb	54.475 ppb	27.411 ppb	27.448 ppb	14.440 ppb	28.174 ppb	88.307 %
Concentration per Run 2	25.873 ppb	10.046 ppb	25.739 ppb	55.801 ppb	25.216 ppb	27.626 ppb	13.048 ppb	26.674 ppb	99.292 %
Concentration per Run 3	26.410 ppb	10.448 ppb	25.122 ppb	54.374 ppb	26.022 ppb	27.283 ppb	13.774 ppb	26.872 ppb	97.587 %
Concentration RSD	4.0 %	2.8 %	1.9 %	1.5 %	4.2 %	0.6 %	5.1 %	3.0 %	6.2 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	6.331 ppb	5.965 ppb	47.917 ppb	49.613 ppb	92.386 %	2.563 ppb	2.781 ppb	90.225 %	19.634 ppb
Concentration per Run 1	6.871 ppb	6.323 ppb	46.938 ppb	50.140 ppb	86.128 %	2.619 ppb	2.711 ppb	82.813 %	19.990 ppb
Concentration per Run 2	6.023 ppb	5.465 ppb	47.877 ppb	49.702 ppb	94.123 %	2.522 ppb	2.916 ppb	94.837 %	19.262 ppb
Concentration per Run 3	6.100 ppb	6.107 ppb	48.937 ppb	48.998 ppb	96.907 %	2.547 ppb	2.714 ppb	93.026 %	19.651 ppb
Concentration RSD	7.4 %	7.5 %	2.1 %	1.2 %	6.1 %	2.0 %	4.2 %	7.2 %	1.9 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	97.211 ppb	90.381 %	89.365 %	5.829 ppb	26.220 ppb	103.835 %
Concentration per Run 1	97.223 ppb	84.909 %	85.007 %	5.809 ppb	26.297 ppb	97.382 %
Concentration per Run 2	95.792 ppb	92.886 %	90.069 %	5.830 ppb	26.089 ppb	106.307 %
Concentration per Run 3	98.619 ppb	93.348 %	93.018 %	5.847 ppb	26.275 ppb	107.817 %
Concentration RSD	1.5 %	5.2 %	4.5 %	0.3 %	0.4 %	5.4 %

Alpha ICPMSQ2 Data with SRD

3/5/2024 9:03:09 PM

Analysis index:	23	User name	ALPHALAB\a2-icpmsq2	Comment	<Comment>
Analysis label:	WG1891910-3d20 6020TL	Rack	1		
Analysis started at:	3/5/2024 7:23:01 AM	Vial	4		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	95.942 %	97.774 %	2.801 ppb	7,432.548 ppb	2,740.839 ppb	108.375 ppb	717.007 ppb	2,027.910 ppb	88.370 %
Concentration per Run 1	95.758 %	107.143 %	2.839 ppb	6,909.486 ppb	2,542.912 ppb	103.857 ppb	678.208 ppb	2,006.300 ppb	88.908 %
Concentration per Run 2	95.855 %	92.393 %	2.736 ppb	7,740.364 ppb	2,842.731 ppb	106.664 ppb	745.385 ppb	2,082.761 ppb	88.643 %
Concentration per Run 3	96.214 %	93.785 %	2.829 ppb	7,647.793 ppb	2,836.874 ppb	114.605 ppb	727.429 ppb	1,994.669 ppb	87.560 %
Concentration RSD	0.3 %	8.3 %	2.0 %	6.1 %	6.3 %	5.1 %	4.9 %	2.4 %	0.8 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	26.442 ppb	11.363 ppb	34.077 ppb	64.970 ppb	26.664 ppb	28.246 ppb	13.878 ppb	27.240 ppb	96.197 %
Concentration per Run 1	25.326 ppb	11.124 ppb	32.846 ppb	60.690 ppb	25.787 ppb	28.710 ppb	13.818 ppb	26.222 ppb	96.512 %
Concentration per Run 2	26.027 ppb	11.745 ppb	34.054 ppb	71.040 ppb	27.114 ppb	28.880 ppb	13.436 ppb	27.501 ppb	99.309 %
Concentration per Run 3	27.972 ppb	11.221 ppb	35.331 ppb	63.181 ppb	27.090 ppb	27.147 ppb	14.381 ppb	27.997 ppb	92.769 %
Concentration RSD	5.2 %	2.9 %	3.6 %	8.3 %	2.8 %	3.4 %	3.4 %	3.4 %	3.4 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	5.715 ppb	5.920 ppb	52.975 ppb	50.461 ppb	95.036 %	2.578 ppb	2.824 ppb	93.204 %	18.940 ppb
Concentration per Run 1	5.668 ppb	5.855 ppb	51.976 ppb	50.454 ppb	94.740 %	2.504 ppb	2.854 ppb	90.941 %	19.008 ppb
Concentration per Run 2	5.464 ppb	5.488 ppb	52.662 ppb	48.562 ppb	94.444 %	2.646 ppb	2.837 ppb	94.234 %	19.022 ppb
Concentration per Run 3	6.012 ppb	6.418 ppb	54.287 ppb	52.367 ppb	95.922 %	2.585 ppb	2.781 ppb	94.438 %	18.789 ppb
Concentration RSD	4.9 %	7.9 %	2.2 %	3.8 %	0.8 %	2.8 %	1.3 %	2.1 %	0.7 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	105.963 ppb	91.088 %	89.374 %	5.947 ppb	26.639 ppb	106.031 %
Concentration per Run 1	107.595 ppb	89.077 %	86.391 %	5.986 ppb	26.726 ppb	104.902 %
Concentration per Run 2	104.313 ppb	91.471 %	90.014 %	5.912 ppb	26.543 ppb	105.912 %
Concentration per Run 3	105.983 ppb	92.718 %	91.716 %	5.943 ppb	26.649 ppb	107.278 %
Concentration RSD	1.5 %	2.0 %	3.0 %	0.6 %	0.3 %	1.1 %

Alpha ICPMSQ2 Data with SRD

3/5/2024 9:03:09 PM

Analysis index:	24	User name	ALPHALAB\a2-icpmsq2	Comment	<Comment>
Analysis label:	WG1891910-4d20 6020TL	Rack	1		
Analysis started at:	3/5/2024 7:27:29 AM	Vial	5		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	97.296 %	101.299 %	2.801 ppb	7,375.858 ppb	2,774.285 ppb	107.207 ppb	723.842 ppb	1,953.895 ppb	90.893 %
Concentration per Run 1	96.588 %	89.610 %	2.803 ppb	8,372.282 ppb	3,212.666 ppb	127.213 ppb	786.774 ppb	2,223.738 ppb	90.695 %
Concentration per Run 2	97.236 %	106.030 %	2.795 ppb	6,968.169 ppb	2,612.839 ppb	99.316 ppb	716.098 ppb	1,849.554 ppb	90.288 %
Concentration per Run 3	98.064 %	108.256 %	2.803 ppb	6,787.122 ppb	2,497.352 ppb	95.091 ppb	668.654 ppb	1,788.393 ppb	91.696 %
Concentration RSD	0.8 %	10.1 %	0.2 %	11.8 %	13.8 %	16.3 %	8.2 %	12.1 %	0.8 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	26.662 ppb	11.860 ppb	34.583 ppb	62.191 ppb	26.472 ppb	28.321 ppb	13.546 ppb	27.165 ppb	96.250 %
Concentration per Run 1	28.427 ppb	12.342 ppb	37.943 ppb	70.483 ppb	28.688 ppb	29.994 ppb	14.068 ppb	28.340 ppb	93.741 %
Concentration per Run 2	25.624 ppb	11.267 ppb	32.601 ppb	57.751 ppb	25.020 ppb	26.622 ppb	13.187 ppb	26.459 ppb	99.369 %
Concentration per Run 3	25.934 ppb	11.971 ppb	33.205 ppb	58.338 ppb	25.708 ppb	28.348 ppb	13.383 ppb	26.695 ppb	95.641 %
Concentration RSD	5.8 %	4.6 %	8.5 %	11.6 %	7.4 %	6.0 %	3.4 %	3.8 %	3.0 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	5.874 ppb	6.255 ppb	54.667 ppb	51.848 ppb	94.141 %	2.564 ppb	2.856 ppb	94.060 %	18.884 ppb
Concentration per Run 1	6.149 ppb	7.063 ppb	58.717 ppb	52.854 ppb	90.095 %	2.421 ppb	2.837 ppb	92.189 %	19.229 ppb
Concentration per Run 2	5.791 ppb	5.912 ppb	52.144 ppb	50.436 ppb	93.620 %	2.674 ppb	2.834 ppb	92.011 %	18.992 ppb
Concentration per Run 3	5.683 ppb	5.792 ppb	53.139 ppb	52.254 ppb	98.708 %	2.597 ppb	2.896 ppb	97.980 %	18.431 ppb
Concentration RSD	4.2 %	11.2 %	6.5 %	2.4 %	4.6 %	5.1 %	1.2 %	3.6 %	2.2 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	105.597 ppb	90.073 %	88.509 %	5.911 ppb	26.668 ppb	105.860 %
Concentration per Run 1	106.492 ppb	88.928 %	89.353 %	5.833 ppb	26.612 ppb	103.142 %
Concentration per Run 2	105.360 ppb	88.873 %	85.373 %	5.925 ppb	26.653 ppb	104.868 %
Concentration per Run 3	104.940 ppb	92.418 %	90.800 %	5.975 ppb	26.740 ppb	109.571 %
Concentration RSD	0.8 %	2.3 %	3.2 %	1.2 %	0.2 %	3.1 %

Alpha ICPMSQ2 Data with SRD

3/5/2024 9:03:09 PM

Analysis index:	25	User name	ALPHALAB\a2-icpmsq2	Comment	<Comment>
Analysis label:	WG1891910-5d10 6020TL	Rack	1		
Analysis started at:	3/5/2024 7:31:56 AM	Vial	6		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	96.162 %	98.609 %	49.133 ppb	19,151.501 ppb	9,694.913 ppb	50.785 ppb	5,245.967 ppb	7,963.621 ppb	88.144 %
Concentration per Run 1	95.910 %	101.020 %	48.985 ppb	19,576.009 ppb	9,880.856 ppb	54.181 ppb	5,656.060 ppb	8,532.605 ppb	88.843 %
Concentration per Run 2	96.812 %	90.167 %	49.679 ppb	19,930.549 ppb	10,026.323 ppb	51.319 ppb	5,126.576 ppb	7,797.983 ppb	88.322 %
Concentration per Run 3	95.765 %	104.638 %	48.734 ppb	17,947.945 ppb	9,177.558 ppb	46.855 ppb	4,955.267 ppb	7,560.275 ppb	87.266 %
Concentration RSD	0.6 %	7.6 %	1.0 %	5.5 %	4.7 %	7.3 %	7.0 %	6.4 %	0.9 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	49.655 ppb	50.340 ppb	62.874 ppb	4,929.635 ppb	49.298 ppb	52.221 ppb	49.380 ppb	49.599 ppb	101.323 %
Concentration per Run 1	51.050 ppb	52.491 ppb	66.377 ppb	5,172.278 ppb	51.549 ppb	53.171 ppb	50.702 ppb	51.621 ppb	97.853 %
Concentration per Run 2	49.467 ppb	49.998 ppb	61.021 ppb	4,822.753 ppb	48.637 ppb	52.397 ppb	49.171 ppb	48.916 ppb	104.876 %
Concentration per Run 3	48.447 ppb	48.531 ppb	61.225 ppb	4,793.874 ppb	47.709 ppb	51.096 ppb	48.266 ppb	48.260 ppb	101.241 %
Concentration RSD	2.6 %	4.0 %	4.8 %	4.3 %	4.1 %	2.0 %	2.5 %	3.6 %	3.5 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	48.984 ppb	50.198 ppb	57.071 ppb	50.439 ppb	94.666 %	0.522 ppb	49.307 ppb	94.047 %	48.938 ppb
Concentration per Run 1	52.068 ppb	53.976 ppb	61.845 ppb	51.707 ppb	96.670 %	0.524 ppb	48.726 ppb	97.527 %	49.372 ppb
Concentration per Run 2	47.954 ppb	47.729 ppb	56.010 ppb	49.388 ppb	96.559 %	0.513 ppb	49.900 ppb	94.945 %	48.335 ppb
Concentration per Run 3	46.930 ppb	48.888 ppb	53.356 ppb	50.222 ppb	90.770 %	0.528 ppb	49.295 ppb	89.668 %	49.105 ppb
Concentration RSD	5.6 %	6.6 %	7.6 %	2.3 %	3.6 %	1.4 %	1.2 %	4.3 %	1.1 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	58.635 ppb	86.577 %	85.366 %	47.400 ppb	49.186 ppb	105.697 %
Concentration per Run 1	60.099 ppb	86.033 %	86.776 %	47.394 ppb	49.406 ppb	104.410 %
Concentration per Run 2	58.575 ppb	88.260 %	87.151 %	46.934 ppb	49.270 ppb	107.474 %
Concentration per Run 3	57.229 ppb	85.438 %	82.170 %	47.872 ppb	48.884 ppb	105.208 %
Concentration RSD	2.4 %	1.7 %	3.2 %	1.0 %	0.6 %	1.5 %

Alpha ICPMSQ2 Data with SRD

3/5/2024 9:03:09 PM

Analysis index:	26	User name	ALPHALAB\a2-icpmsq2	Comment	<Comment>
Analysis label:	WG1891910-6d5 6020TL	Rack	1		
Analysis started at:	3/5/2024 7:36:25 AM	Vial	7		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	96.428 %	103.154 %	0.008 ppb	26,926.878 ppb	9,038.432 ppb	2.154 ppb	862.579 ppb	6,082.804 ppb	84.174 %
Concentration per Run 1	96.661 %	97.959 %	0.009 ppb	28,226.093 ppb	9,505.247 ppb	2.590 ppb	887.623 ppb	6,287.937 ppb	84.821 %
Concentration per Run 2	96.736 %	107.700 %	0.007 ppb	25,511.128 ppb	8,663.563 ppb	1.381 ppb	846.966 ppb	6,079.827 ppb	84.294 %
Concentration per Run 3	95.886 %	103.803 %	0.007 ppb	27,043.413 ppb	8,946.486 ppb	2.491 ppb	853.150 ppb	5,880.649 ppb	83.406 %
Concentration RSD	0.5 %	4.8 %	17.0 %	5.1 %	4.7 %	31.2 %	2.5 %	3.3 %	0.8 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.215 ppb	7.186 ppb	32.073 ppb	29.172 ppb	0.087 ppb	4.918 ppb	0.286 ppb	0.736 ppb	98.090 %
Concentration per Run 1	0.327 ppb	3.208 ppb	31.535 ppb	25.770 ppb	0.089 ppb	5.105 ppb	0.383 ppb	0.704 ppb	103.095 %
Concentration per Run 2	0.086 ppb	14.666 ppb	32.765 ppb	32.697 ppb	0.078 ppb	4.572 ppb	0.216 ppb	0.746 ppb	93.544 %
Concentration per Run 3	0.231 ppb	3.685 ppb	31.919 ppb	29.050 ppb	0.092 ppb	5.076 ppb	0.260 ppb	0.759 ppb	97.629 %
Concentration RSD	56.4 %	90.2 %	2.0 %	11.9 %	8.4 %	6.1 %	30.3 %	3.9 %	4.9 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.138 ppb	0.484 ppb	16.326 ppb	0.892 ppb	94.539 %	0.002 ppb	0.026 ppb	95.804 %	0.086 ppb
Concentration per Run 1	0.111 ppb	0.468 ppb	16.595 ppb	0.843 ppb	94.942 %	0.001 ppb	0.023 ppb	98.517 %	0.089 ppb
Concentration per Run 2	0.077 ppb	0.560 ppb	16.291 ppb	0.923 ppb	94.024 %	0.001 ppb	0.021 ppb	93.143 %	0.087 ppb
Concentration per Run 3	0.226 ppb	0.424 ppb	16.092 ppb	0.908 ppb	94.651 %	0.003 ppb	0.033 ppb	95.752 %	0.084 ppb
Concentration RSD	56.4 %	14.3 %	1.6 %	4.8 %	0.5 %	55.0 %	24.6 %	2.8 %	3.0 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	19.594 ppb	86.980 %	84.932 %	0.258 ppb	0.008 ppb	102.146 %
Concentration per Run 1	20.240 ppb	88.553 %	87.149 %	0.201 ppb	0.006 ppb	103.138 %
Concentration per Run 2	19.285 ppb	85.645 %	85.786 %	0.304 ppb	0.008 ppb	101.821 %
Concentration per Run 3	19.256 ppb	86.741 %	81.862 %	0.268 ppb	0.009 ppb	101.478 %
Concentration RSD	2.9 %	1.7 %	3.2 %	20.3 %	14.7 %	0.9 %

Alpha ICPMSQ2 Data with SRD

3/5/2024 9:03:09 PM

Analysis index: 27 User name ALPHALAB\a2-icpmsq2 Comment <Comment>
Analysis label: I2410449-01 6020TL Rack 1
Analysis started at: 3/5/2024 7:40:53 AM Vial 3

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	93.579 %	104.731 %	0.004 ppb	133,065.359 ppb	43,872.840 ppb	9.762 ppb	4,147.953 ppb	27,844.765 ppb	70.517 %
Concentration per Run 1	93.425 %	104.638 %	0.005 ppb	134,780.521 ppb	45,129.834 ppb	9.826 ppb	4,433.826 ppb	29,102.303 ppb	69.629 %
Concentration per Run 2	93.892 %	104.638 %	0.001 ppb	133,516.062 ppb	43,081.047 ppb	9.701 ppb	4,051.632 ppb	27,477.832 ppb	71.940 %
Concentration per Run 3	93.420 %	104.917 %	0.005 ppb	130,899.494 ppb	43,407.640 ppb	9.760 ppb	3,958.402 ppb	26,954.159 ppb	69.981 %
Concentration RSD	0.3 %	0.2 %	64.4 %	1.5 %	2.5 %	0.6 %	6.1 %	4.0 %	1.8 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	1.143 ppb	18.167 ppb	155.251 ppb	108.822 ppb	0.502 ppb	27.142 ppb	0.989 ppb	2.982 ppb	94.288 %
Concentration per Run 1	1.083 ppb	18.710 ppb	159.742 ppb	108.224 ppb	0.544 ppb	32.702 ppb	1.072 ppb	3.112 ppb	95.027 %
Concentration per Run 2	1.032 ppb	18.521 ppb	152.930 ppb	106.920 ppb	0.513 ppb	23.691 ppb	1.038 ppb	3.016 ppb	93.889 %
Concentration per Run 3	1.315 ppb	17.269 ppb	153.081 ppb	111.321 ppb	0.448 ppb	25.034 ppb	0.856 ppb	2.817 ppb	93.949 %
Concentration RSD	13.2 %	4.3 %	2.5 %	2.1 %	9.9 %	17.9 %	11.7 %	5.0 %	0.7 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.609 ppb	1.914 ppb	80.787 ppb	3.807 ppb	89.669 %	0.002 ppb	0.112 ppb	92.175 %	0.056 ppb
Concentration per Run 1	0.615 ppb	1.971 ppb	83.491 ppb	3.717 ppb	90.558 %	0.002 ppb	0.100 ppb	95.256 %	0.046 ppb
Concentration per Run 2	0.560 ppb	2.011 ppb	80.831 ppb	3.937 ppb	89.837 %	0.004 ppb	0.133 ppb	91.255 %	0.057 ppb
Concentration per Run 3	0.652 ppb	1.761 ppb	78.039 ppb	3.766 ppb	88.610 %	0.000 ppb	0.102 ppb	90.014 %	0.066 ppb
Concentration RSD	7.6 %	7.0 %	3.4 %	3.0 %	1.1 %	113.4 %	16.5 %	3.0 %	17.1 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	108.352 ppb	74.559 %	73.100 %	0.093 ppb	0.035 ppb	98.406 %
Concentration per Run 1	110.013 ppb	74.871 %	75.591 %	0.069 ppb	0.031 ppb	99.143 %
Concentration per Run 2	108.660 ppb	74.961 %	72.272 %	0.101 ppb	0.036 ppb	98.928 %
Concentration per Run 3	106.382 ppb	73.846 %	71.437 %	0.110 ppb	0.039 ppb	97.148 %
Concentration RSD	1.7 %	0.8 %	3.0 %	23.1 %	11.3 %	1.1 %

Alpha ICPMSQ2 Data with SRD

3/5/2024 9:03:09 PM

Analysis index:	28	User name	ALPHALAB\a2-icpmsq2	Comment	<Comment>
Analysis label:	I2410504-09 6020TL	Rack	1		
Analysis started at:	3/5/2024 7:45:21 AM	Vial	13		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	91.345 %	90.538 %	0.005 ppb	9.305 ppb	19.324 ppb	6.254 ppb	4.607 ppb	95.028 ppb	82.314 %
Concentration per Run 1	90.598 %	89.332 %	0.004 ppb	6.044 ppb	19.745 ppb	5.601 ppb	1.211 ppb	87.859 ppb	80.870 %
Concentration per Run 2	90.706 %	91.280 %	0.005 ppb	13.264 ppb	22.749 ppb	7.614 ppb	1.459 ppb	92.653 ppb	82.524 %
Concentration per Run 3	92.731 %	91.002 %	0.004 ppb	8.605 ppb	15.477 ppb	5.548 ppb	11.150 ppb	104.571 ppb	83.547 %
Concentration RSD	1.3 %	1.2 %	11.7 %	39.3 %	18.9 %	18.8 %	123.0 %	9.1 %	1.6 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.076 ppb	0.008 ppb	0.526 ppb	14.922 ppb	0.003 ppb	0.088 ppb	0.051 ppb	0.641 ppb	91.084 %
Concentration per Run 1	0.022 ppb	0.037 ppb	0.590 ppb	16.905 ppb	0.002 ppb	0.062 ppb	0.053 ppb	0.623 ppb	85.955 %
Concentration per Run 2	0.093 ppb	-0.007 ppb	0.475 ppb	15.866 ppb	0.002 ppb	0.080 ppb	0.090 ppb	0.619 ppb	95.474 %
Concentration per Run 3	0.113 ppb	-0.005 ppb	0.513 ppb	11.995 ppb	0.006 ppb	0.121 ppb	0.010 ppb	0.682 ppb	91.822 %
Concentration RSD	63.4 %	294.6 %	11.2 %	17.3 %	69.4 %	34.7 %	78.9 %	5.5 %	5.3 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.035 ppb	-0.018 ppb	0.137 ppb	0.050 ppb	85.727 %	0.000 ppb	0.000 ppb	83.705 %	-0.030 ppb
Concentration per Run 1	0.049 ppb	0.008 ppb	0.139 ppb	0.034 ppb	80.875 %	0.000 ppb	-0.001 ppb	78.706 %	-0.050 ppb
Concentration per Run 2	0.032 ppb	0.027 ppb	0.149 ppb	0.095 ppb	87.493 %	0.000 ppb	0.002 ppb	87.612 %	-0.014 ppb
Concentration per Run 3	0.023 ppb	-0.088 ppb	0.125 ppb	0.021 ppb	88.814 %	0.000 ppb	-0.001 ppb	84.797 %	-0.027 ppb
Concentration RSD	37.4 %	353.3 %	8.7 %	78.4 %	5.0 %	12.7 %	1,059.5 %	5.4 %	60.5 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.131 ppb	84.178 %	85.290 %	0.041 ppb	0.022 ppb	91.255 %
Concentration per Run 1	0.151 ppb	78.982 %	79.633 %	0.024 ppb	0.021 ppb	88.697 %
Concentration per Run 2	0.149 ppb	86.571 %	88.194 %	0.044 ppb	0.019 ppb	92.823 %
Concentration per Run 3	0.092 ppb	86.981 %	88.044 %	0.055 ppb	0.026 ppb	92.246 %
Concentration RSD	25.5 %	5.4 %	5.7 %	37.7 %	16.7 %	2.4 %

Alpha ICPMSQ2 Data with SRD

3/5/2024 9:03:09 PM

Analysis index:	29	User name	ALPHALAB\a2-icpmsq2	Comment	<Comment>
Analysis label:	I2410677-02 6020TL	Rack	1		
Analysis started at:	3/5/2024 7:49:47 AM	Vial	14		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	100.289 %	107.421 %	0.015 ppb	248,946.663 ppb	22,130.215 ppb	146.752 ppb	72,939.095 ppb	131,404.229 ppb	69.357 %
Concentration per Run 1	100.339 %	108.813 %	0.015 ppb	236,217.504 ppb	20,974.732 ppb	136.403 ppb	70,440.358 ppb	126,887.865 ppb	69.390 %
Concentration per Run 2	99.905 %	107.978 %	0.016 ppb	256,422.127 ppb	23,068.889 ppb	159.867 ppb	76,306.704 ppb	134,668.342 ppb	68.863 %
Concentration per Run 3	100.624 %	105.473 %	0.013 ppb	254,200.358 ppb	22,347.022 ppb	143.987 ppb	72,070.222 ppb	132,656.478 ppb	69.817 %
Concentration RSD	0.4 %	1.6 %	10.6 %	4.5 %	4.8 %	8.2 %	4.2 %	3.1 %	0.7 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	3.018 ppb	5.482 ppb	526.306 ppb	1,142.281 ppb	0.477 ppb	1.712 ppb	0.750 ppb	2.550 ppb	94.527 %
Concentration per Run 1	2.660 ppb	2.474 ppb	521.654 ppb	1,148.945 ppb	0.458 ppb	1.585 ppb	0.800 ppb	2.393 ppb	91.223 %
Concentration per Run 2	3.438 ppb	11.413 ppb	533.501 ppb	1,134.593 ppb	0.448 ppb	1.755 ppb	0.641 ppb	2.505 ppb	100.669 %
Concentration per Run 3	2.957 ppb	2.558 ppb	523.763 ppb	1,143.305 ppb	0.526 ppb	1.798 ppb	0.810 ppb	2.751 ppb	91.688 %
Concentration RSD	13.0 %	93.7 %	1.2 %	0.6 %	8.9 %	6.6 %	12.7 %	7.2 %	5.6 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	11.350 ppb	0.228 ppb	1,009.032 ppb	5.627 ppb	90.203 %	0.001 ppb	0.000 ppb	93.127 %	0.079 ppb
Concentration per Run 1	11.415 ppb	0.096 ppb	992.522 ppb	5.963 ppb	89.223 %	0.001 ppb	0.002 ppb	88.849 %	0.041 ppb
Concentration per Run 2	10.982 ppb	0.168 ppb	1,032.971 ppb	5.402 ppb	91.266 %	0.002 ppb	-0.001 ppb	96.922 %	0.084 ppb
Concentration per Run 3	11.653 ppb	0.418 ppb	1,001.604 ppb	5.516 ppb	90.119 %	-0.001 ppb	-0.001 ppb	93.609 %	0.113 ppb
Concentration RSD	3.0 %	74.3 %	2.1 %	5.3 %	1.1 %	181.9 %	1,154.0 %	4.4 %	45.6 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	98.195 ppb	70.170 %	67.550 %	0.031 ppb	0.344 ppb	98.335 %
Concentration per Run 1	96.678 ppb	68.448 %	64.873 %	0.014 ppb	0.341 ppb	95.679 %
Concentration per Run 2	100.104 ppb	72.554 %	71.217 %	0.045 ppb	0.336 ppb	100.586 %
Concentration per Run 3	97.804 ppb	69.507 %	66.561 %	0.034 ppb	0.354 ppb	98.739 %
Concentration RSD	1.8 %	3.0 %	4.9 %	49.5 %	2.8 %	2.5 %

Alpha ICPMSQ2 Data with SRD

3/5/2024 9:03:09 PM

Analysis index: 30
Analysis label: I2410449-01d10 6020TL
Analysis started at: 3/5/2024 7:58:35 AM
User name ALPHALAB\a2-icpmsq2
Rack 1
Vial 24
Comment <Comment>

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	101.291 %	109.740 %	0.003 ppb	13,650.187 ppb	4,487.798 ppb	3.407 ppb	412.684 ppb	3,037.311 ppb	90.517 %
Concentration per Run 1	100.353 %	105.751 %	0.004 ppb	13,811.507 ppb	4,582.999 ppb	3.187 ppb	397.620 ppb	2,960.568 ppb	90.862 %
Concentration per Run 2	102.596 %	116.048 %	0.006 ppb	12,727.245 ppb	4,148.659 ppb	3.127 ppb	364.189 ppb	2,946.769 ppb	91.446 %
Concentration per Run 3	100.925 %	107.421 %	0.000 ppb	14,411.808 ppb	4,731.737 ppb	3.905 ppb	476.244 ppb	3,204.597 ppb	89.244 %
Concentration RSD	1.2 %	5.0 %	99.9 %	6.3 %	6.8 %	12.7 %	13.9 %	4.8 %	1.3 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.116 ppb	2.053 ppb	15.553 ppb	21.088 ppb	0.048 ppb	2.504 ppb	1.151 ppb	1.533 ppb	106.596 %
Concentration per Run 1	0.179 ppb	1.860 ppb	16.599 ppb	24.465 ppb	0.039 ppb	2.484 ppb	1.327 ppb	1.621 ppb	101.732 %
Concentration per Run 2	0.085 ppb	2.456 ppb	13.834 ppb	21.204 ppb	0.062 ppb	2.501 ppb	1.132 ppb	1.457 ppb	105.353 %
Concentration per Run 3	0.083 ppb	1.843 ppb	16.225 ppb	17.595 ppb	0.043 ppb	2.526 ppb	0.993 ppb	1.521 ppb	112.704 %
Concentration RSD	47.4 %	17.0 %	9.6 %	16.3 %	26.1 %	0.8 %	14.6 %	5.4 %	5.2 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.035 ppb	0.200 ppb	8.174 ppb	0.399 ppb	99.559 %	0.003 ppb	0.012 ppb	100.802 %	-0.046 ppb
Concentration per Run 1	0.068 ppb	0.186 ppb	8.122 ppb	0.415 ppb	96.012 %	0.002 ppb	0.008 ppb	95.621 %	-0.058 ppb
Concentration per Run 2	0.018 ppb	0.179 ppb	7.948 ppb	0.375 ppb	98.788 %	0.004 ppb	0.014 ppb	99.109 %	-0.039 ppb
Concentration per Run 3	0.020 ppb	0.234 ppb	8.452 ppb	0.408 ppb	103.878 %	0.003 ppb	0.013 ppb	107.675 %	-0.041 ppb
Concentration RSD	80.7 %	15.0 %	3.1 %	5.4 %	4.0 %	29.0 %	25.7 %	6.2 %	22.8 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	9.725 ppb	95.655 %	94.242 %	0.018 ppb	0.235 ppb	111.768 %
Concentration per Run 1	10.192 ppb	92.366 %	90.770 %	0.011 ppb	0.245 ppb	108.337 %
Concentration per Run 2	9.272 ppb	94.064 %	92.913 %	0.019 ppb	0.219 ppb	111.228 %
Concentration per Run 3	9.713 ppb	100.534 %	99.042 %	0.023 ppb	0.242 ppb	115.740 %
Concentration RSD	4.7 %	4.5 %	4.6 %	33.8 %	6.0 %	3.3 %

Alpha ICPMSQ2 Data with SRD

3/5/2024 9:03:09 PM

Analysis index: 31 User name ALPHALAB\a2-icpmsq2 Comment <Comment>
Analysis label: CCV Rack 0
Analysis started at: 3/5/2024 8:06:16 AM Vial 9

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	93.156 %	102.968 %	64.366 ppb	5,831.627 ppb	5,889.225 ppb	57.819 ppb	5,820.798 ppb	5,965.068 ppb	86.499 %
Concentration per Run 1	93.152 %	103.247 %	64.242 ppb	5,775.608 ppb	5,864.760 ppb	56.524 ppb	5,894.333 ppb	6,130.511 ppb	85.897 %
Concentration per Run 2	94.077 %	101.577 %	64.393 ppb	5,942.390 ppb	5,898.289 ppb	58.576 ppb	5,740.878 ppb	5,977.616 ppb	87.703 %
Concentration per Run 3	92.239 %	104.082 %	64.463 ppb	5,776.883 ppb	5,904.624 ppb	58.356 ppb	5,827.183 ppb	5,787.076 ppb	85.896 %
Recovery Percentage 1			107.277 %	97.194 %	98.154 %	96.365 %	97.013 %	99.418 %	
Concentration RSD	1.0 %	1.2 %	0.2 %	1.6 %	0.4 %	1.9 %	1.3 %	2.9 %	1.2 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	61.695 ppb	61.418 ppb	60.405 ppb	6,068.625 ppb	63.030 ppb	65.202 ppb	63.716 ppb	62.569 ppb	92.616 %
Concentration per Run 1	61.244 ppb	62.870 ppb	59.567 ppb	6,194.491 ppb	62.954 ppb	66.179 ppb	65.357 ppb	61.101 ppb	87.739 %
Concentration per Run 2	59.829 ppb	59.228 ppb	60.027 ppb	5,947.041 ppb	62.704 ppb	64.699 ppb	62.095 ppb	63.593 ppb	95.462 %
Concentration per Run 3	64.011 ppb	62.157 ppb	61.621 ppb	6,064.345 ppb	63.433 ppb	64.728 ppb	63.698 ppb	63.015 ppb	94.649 %
Recovery Percentage 1	102.825 %	102.364 %	100.675 %	101.144 %	105.050 %	108.670 %	106.194 %	104.282 %	
Concentration RSD	3.4 %	3.1 %	1.8 %	2.0 %	0.6 %	1.3 %	2.6 %	2.1 %	4.6 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	63.075 ppb	62.247 ppb	59.498 ppb	61.315 ppb	90.398 %	61.839 ppb	61.015 ppb	90.043 %	56.733 ppb
Concentration per Run 1	63.550 ppb	60.417 ppb	58.250 ppb	60.845 ppb	88.559 %	62.041 ppb	60.393 ppb	87.934 %	56.698 ppb
Concentration per Run 2	62.816 ppb	62.108 ppb	58.808 ppb	59.202 ppb	93.145 %	60.838 ppb	60.486 ppb	92.391 %	56.027 ppb
Concentration per Run 3	62.859 ppb	64.215 ppb	61.434 ppb	63.899 ppb	89.491 %	62.637 ppb	62.166 ppb	89.803 %	57.475 ppb
Recovery Percentage 1	105.125 %	103.745 %	99.163 %	102.192 %		103.065 %	101.692 %		94.555 %
Concentration RSD	0.7 %	3.1 %	2.9 %	3.9 %	2.7 %	1.5 %	1.6 %	2.5 %	1.3 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	58.736 ppb	86.700 %	84.080 %	59.027 ppb	59.945 ppb	104.188 %
Concentration per Run 1	60.479 ppb	84.164 %	81.119 %	58.063 ppb	59.441 ppb	102.429 %
Concentration per Run 2	56.130 ppb	89.861 %	85.461 %	60.003 ppb	60.101 ppb	105.046 %
Concentration per Run 3	59.598 ppb	86.074 %	85.659 %	59.017 ppb	60.294 ppb	105.090 %
Recovery Percentage 1	97.893 %			98.379 %	99.909 %	
Concentration RSD	3.9 %	3.3 %	3.1 %	1.6 %	0.7 %	1.5 %

Alpha ICPMSQ2 Data with SRD

3/5/2024 9:03:09 PM

Analysis index:	32	User name	ALPHALAB\a2-icpmsq2	Comment	<Comment>
Analysis label:	CCB	Rack	0		
Analysis started at:	3/5/2024 8:10:47 AM	Vial	10		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	88.222 %	93.692 %	0.006 ppb	-1.366 ppb	-0.772 ppb	-1.087 ppb	4.553 ppb	-3.889 ppb	81.359 %
Concentration per Run 1	87.349 %	88.775 %	0.007 ppb	-2.003 ppb	-0.292 ppb	-1.405 ppb	4.377 ppb	-2.935 ppb	80.957 %
Concentration per Run 2	88.165 %	94.620 %	0.005 ppb	-0.584 ppb	-1.009 ppb	-0.787 ppb	5.066 ppb	-3.197 ppb	81.897 %
Concentration per Run 3	89.153 %	97.681 %	0.005 ppb	-1.511 ppb	-1.014 ppb	-1.069 ppb	4.216 ppb	-5.534 ppb	81.223 %
Recovery Percentage 1			1.164 %	-1.366 %	-1.103 %	-10.870 %	4.553 %	-3.889 %	
Concentration RSD	1.0 %	4.8 %	23.8 %	52.7 %	53.8 %	28.5 %	9.9 %	36.8 %	0.6 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.022 ppb	-0.025 ppb	-0.030 ppb	4.161 ppb	0.001 ppb	0.018 ppb	-0.007 ppb	0.086 ppb	83.127 %
Concentration per Run 1	0.043 ppb	-0.042 ppb	-0.027 ppb	1.468 ppb	-0.002 ppb	0.045 ppb	-0.026 ppb	0.082 ppb	80.179 %
Concentration per Run 2	0.003 ppb	-0.016 ppb	-0.031 ppb	5.460 ppb	0.002 ppb	-0.054 ppb	-0.027 ppb	0.126 ppb	86.000 %
Concentration per Run 3	0.021 ppb	-0.016 ppb	-0.031 ppb	5.555 ppb	0.003 ppb	0.063 ppb	0.034 ppb	0.051 ppb	83.201 %
Recovery Percentage 1	0.449 %	-2.477 %	-2.956 %	8.322 %	0.208 %	0.913 %	-0.666 %	1.725 %	
Concentration RSD	88.9 %	60.1 %	8.3 %	56.1 %	233.6 %	345.2 %	525.4 %	43.8 %	3.5 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.033 ppb	0.082 ppb	-0.004 ppb	0.071 ppb	84.052 %	0.001 ppb	0.001 ppb	81.631 %	0.128 ppb
Concentration per Run 1	0.011 ppb	0.038 ppb	0.000 ppb	0.090 ppb	84.569 %	-0.002 ppb	-0.001 ppb	80.883 %	0.086 ppb
Concentration per Run 2	-0.006 ppb	0.170 ppb	-0.006 ppb	0.044 ppb	84.317 %	0.004 ppb	-0.001 ppb	82.868 %	0.148 ppb
Concentration per Run 3	0.094 ppb	0.037 ppb	-0.008 ppb	0.079 ppb	83.270 %	0.002 ppb	0.006 ppb	81.141 %	0.148 ppb
Recovery Percentage 1	6.627 %	1.640 %	-0.044 %	3.569 %		0.356 %	0.736 %		3.189 %
Concentration RSD	161.5 %	93.2 %	90.6 %	33.6 %	0.8 %	194.5 %	284.4 %	1.3 %	28.3 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.005 ppb	83.541 %	82.781 %	0.206 ppb	-0.005 ppb	91.609 %
Concentration per Run 1	0.020 ppb	83.283 %	82.134 %	0.178 ppb	-0.001 ppb	87.123 %
Concentration per Run 2	-0.011 ppb	85.263 %	84.255 %	0.241 ppb	-0.007 ppb	94.896 %
Concentration per Run 3	0.005 ppb	82.078 %	81.954 %	0.199 ppb	-0.008 ppb	92.808 %
Recovery Percentage 1	0.966 %			20.589 %	-0.541 %	
Concentration RSD	324.6 %	1.9 %	1.5 %	15.5 %	67.8 %	4.4 %

Alpha ICPMSQ2 Data with SRD

3/5/2024 9:03:09 PM

Analysis index:	33	User name	ALPHALAB\a2-icpmsq2	Comment	<Comment>
Analysis label:	WG1892073-1d10 6020TS	Rack	1		
Analysis started at:	3/5/2024 8:15:23 AM	Vial	26		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	88.042 %	89.703 %	0.004 ppb	7.961 ppb	1.752 ppb	2.296 ppb	9.773 ppb	10.799 ppb	82.370 %
Concentration per Run 1	87.574 %	90.167 %	0.004 ppb	5.869 ppb	3.130 ppb	2.242 ppb	1.614 ppb	24.402 ppb	82.832 %
Concentration per Run 2	88.244 %	91.837 %	0.006 ppb	7.094 ppb	1.038 ppb	1.719 ppb	15.208 ppb	-0.853 ppb	81.914 %
Concentration per Run 3	88.308 %	87.106 %	0.002 ppb	10.919 ppb	1.088 ppb	2.928 ppb	12.497 ppb	8.847 ppb	82.365 %
Concentration RSD	0.5 %	2.7 %	44.9 %	33.1 %	68.2 %	26.4 %	73.6 %	118.0 %	0.6 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.018 ppb	-0.006 ppb	0.094 ppb	11.245 ppb	0.014 ppb	0.024 ppb	0.028 ppb	0.332 ppb	82.194 %
Concentration per Run 1	-0.010 ppb	-0.037 ppb	0.135 ppb	6.748 ppb	0.008 ppb	0.078 ppb	-0.005 ppb	0.293 ppb	80.267 %
Concentration per Run 2	0.042 ppb	0.002 ppb	0.088 ppb	15.080 ppb	0.022 ppb	0.077 ppb	0.047 ppb	0.360 ppb	80.028 %
Concentration per Run 3	0.022 ppb	0.018 ppb	0.059 ppb	11.907 ppb	0.012 ppb	-0.083 ppb	0.043 ppb	0.344 ppb	86.286 %
Concentration RSD	144.6 %	496.7 %	40.8 %	37.4 %	53.4 %	386.8 %	103.6 %	10.5 %	4.3 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.042 ppb	-0.007 ppb	0.032 ppb	0.052 ppb	82.172 %	0.002 ppb	-0.001 ppb	79.546 %	0.011 ppb
Concentration per Run 1	0.036 ppb	-0.047 ppb	0.026 ppb	0.024 ppb	78.438 %	0.002 ppb	-0.001 ppb	73.998 %	-0.014 ppb
Concentration per Run 2	0.003 ppb	0.068 ppb	0.037 ppb	0.035 ppb	82.638 %	0.002 ppb	-0.001 ppb	82.155 %	0.023 ppb
Concentration per Run 3	0.087 ppb	-0.043 ppb	0.032 ppb	0.099 ppb	85.441 %	0.001 ppb	-0.001 ppb	82.486 %	0.024 ppb
Concentration RSD	101.0 %	884.3 %	16.4 %	77.5 %	4.3 %	49.7 %	0.0 %	6.0 %	198.6 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.047 ppb	80.526 %	79.951 %	0.059 ppb	0.005 ppb	91.970 %
Concentration per Run 1	0.025 ppb	74.056 %	73.303 %	0.040 ppb	0.006 ppb	85.988 %
Concentration per Run 2	0.005 ppb	82.206 %	80.295 %	0.071 ppb	0.005 ppb	93.343 %
Concentration per Run 3	0.110 ppb	85.316 %	86.255 %	0.067 ppb	0.005 ppb	96.580 %
Concentration RSD	119.3 %	7.2 %	8.1 %	28.2 %	10.9 %	5.9 %

Alpha ICPMSQ2 Data with SRD

3/5/2024 9:03:09 PM

Analysis index:	34	User name	ALPHALAB\a2-icpmsq2	Comment	<Comment>
Analysis label:	WG1892073-2d50 6020TS	Rack	1		
Analysis started at:	3/5/2024 8:19:50 AM	Vial	27		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	96.127 %	92.764 %	26.768 ppb	278.728 ppb	232.894 ppb	658.969 ppb	144.926 ppb	765.036 ppb	82.775 %
Concentration per Run 1	95.273 %	91.837 %	26.999 ppb	270.556 ppb	228.734 ppb	660.847 ppb	159.974 ppb	766.875 ppb	82.716 %
Concentration per Run 2	97.286 %	94.620 %	26.649 ppb	277.793 ppb	227.468 ppb	644.631 ppb	147.457 ppb	748.953 ppb	83.795 %
Concentration per Run 3	95.820 %	91.837 %	26.656 ppb	287.836 ppb	242.481 ppb	671.429 ppb	127.348 ppb	779.280 ppb	81.813 %
Concentration RSD	1.1 %	1.7 %	0.7 %	3.1 %	3.6 %	2.0 %	11.4 %	2.0 %	1.2 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	16.888 ppb	28.645 ppb	97.444 ppb	871.641 ppb	13.797 ppb	53.047 ppb	34.062 ppb	27.386 ppb	88.285 %
Concentration per Run 1	17.183 ppb	28.583 ppb	100.757 ppb	874.634 ppb	14.458 ppb	53.212 ppb	34.926 ppb	28.147 ppb	85.144 %
Concentration per Run 2	16.941 ppb	29.402 ppb	97.940 ppb	907.065 ppb	14.029 ppb	54.115 ppb	34.651 ppb	28.075 ppb	86.249 %
Concentration per Run 3	16.539 ppb	27.950 ppb	93.635 ppb	833.225 ppb	12.904 ppb	51.814 ppb	32.608 ppb	25.934 ppb	93.462 %
Concentration RSD	1.9 %	2.5 %	3.7 %	4.2 %	5.8 %	2.2 %	3.7 %	4.6 %	5.1 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	50.737 ppb	28.189 ppb	20.518 ppb	21.609 ppb	88.004 %	12.864 ppb	34.316 ppb	85.847 %	27.551 ppb
Concentration per Run 1	51.131 ppb	28.151 ppb	20.354 ppb	22.463 ppb	87.312 %	12.786 ppb	33.829 ppb	84.656 %	27.135 ppb
Concentration per Run 2	52.317 ppb	29.025 ppb	21.174 ppb	20.800 ppb	87.323 %	12.822 ppb	33.847 ppb	86.214 %	27.806 ppb
Concentration per Run 3	48.764 ppb	27.391 ppb	20.026 ppb	21.564 ppb	89.377 %	12.985 ppb	35.273 ppb	86.670 %	27.713 ppb
Concentration RSD	3.6 %	2.9 %	2.9 %	3.9 %	1.4 %	0.8 %	2.4 %	1.2 %	1.3 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	49.923 ppb	83.178 %	81.015 %	30.936 ppb	15.866 ppb	98.249 %
Concentration per Run 1	48.852 ppb	81.543 %	79.012 %	30.995 ppb	15.826 ppb	94.889 %
Concentration per Run 2	49.594 ppb	83.812 %	82.151 %	30.804 ppb	16.030 ppb	100.160 %
Concentration per Run 3	51.322 ppb	84.180 %	81.881 %	31.010 ppb	15.742 ppb	99.699 %
Concentration RSD	2.5 %	1.7 %	2.1 %	0.4 %	0.9 %	3.0 %

Alpha ICPMSQ2 Data with SRD

3/5/2024 9:03:09 PM

Analysis index:	35	User name	ALPHALAB\a2-icpmsq2	Comment	<Comment>
Analysis label:	WG1892073-3d50 6020TS	Rack	1		
Analysis started at:	3/5/2024 8:24:16 AM	Vial	29		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	92.162 %	98.609 %	2.484 ppb	422.784 ppb	1,943.746 ppb	1,920.386 ppb	508.897 ppb	73,528.606 ppb	71.557 %
Concentration per Run 1	92.248 %	91.002 %	2.524 ppb	441.149 ppb	2,021.430 ppb	1,980.150 ppb	467.735 ppb	75,379.700 ppb	71.864 %
Concentration per Run 2	92.253 %	103.803 %	2.479 ppb	403.634 ppb	1,885.888 ppb	1,846.001 ppb	442.666 ppb	71,928.619 ppb	72.661 %
Concentration per Run 3	91.985 %	101.020 %	2.449 ppb	423.567 ppb	1,923.921 ppb	1,935.007 ppb	616.289 ppb	73,277.499 ppb	70.145 %
Concentration RSD	0.2 %	6.8 %	1.5 %	4.4 %	3.6 %	3.6 %	18.4 %	2.4 %	1.8 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	20.729 ppb	9.641 ppb	248.939 ppb	7,035.020 ppb	24.035 ppb	32.181 ppb	17.075 ppb	48.313 ppb	87.820 %
Concentration per Run 1	20.766 ppb	9.771 ppb	253.599 ppb	7,181.587 ppb	24.109 ppb	32.601 ppb	17.054 ppb	49.041 ppb	86.616 %
Concentration per Run 2	19.699 ppb	9.449 ppb	246.936 ppb	7,011.779 ppb	24.385 ppb	33.234 ppb	17.527 ppb	49.516 ppb	86.482 %
Concentration per Run 3	21.723 ppb	9.703 ppb	246.282 ppb	6,911.694 ppb	23.612 ppb	30.708 ppb	16.643 ppb	46.384 ppb	90.361 %
Concentration RSD	4.9 %	1.8 %	1.6 %	1.9 %	1.6 %	4.1 %	2.6 %	3.5 %	2.5 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	7.321 ppb	5.537 ppb	210.260 ppb	41.108 ppb	85.780 %	2.141 ppb	2.332 ppb	85.558 %	18.765 ppb
Concentration per Run 1	7.739 ppb	6.551 ppb	212.572 ppb	41.652 ppb	84.307 %	2.174 ppb	2.381 ppb	84.154 %	19.005 ppb
Concentration per Run 2	7.228 ppb	5.150 ppb	215.610 ppb	41.405 ppb	86.412 %	2.104 ppb	2.204 ppb	85.613 %	18.689 ppb
Concentration per Run 3	6.996 ppb	4.910 ppb	202.598 ppb	40.268 ppb	86.620 %	2.146 ppb	2.412 ppb	86.907 %	18.600 ppb
Concentration RSD	5.2 %	16.0 %	3.2 %	1.8 %	1.5 %	1.6 %	4.8 %	1.6 %	1.1 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	99.902 ppb	66.153 %	62.769 %	5.128 ppb	27.528 ppb	96.967 %
Concentration per Run 1	102.110 ppb	64.327 %	60.914 %	5.042 ppb	27.439 ppb	94.528 %
Concentration per Run 2	99.476 ppb	66.518 %	62.058 %	5.139 ppb	27.604 ppb	97.854 %
Concentration per Run 3	98.119 ppb	67.615 %	65.336 %	5.203 ppb	27.540 ppb	98.518 %
Concentration RSD	2.0 %	2.5 %	3.7 %	1.6 %	0.3 %	2.2 %

Alpha ICPMSQ2 Data with SRD

3/5/2024 9:03:09 PM

Analysis index:	36	User name	ALPHALAB\a2-icpmsq2	Comment	<Comment>
Analysis label:	WG1892073-5d50 6020TS	Rack	1		
Analysis started at:	3/5/2024 8:28:43 AM	Vial	31		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	93.044 %	93.692 %	30.242 ppb	5,167.373 ppb	6,208.004 ppb	2,235.622 ppb	5,433.738 ppb	40,555.603 ppb	80.880 %
Concentration per Run 1	93.756 %	85.158 %	30.320 ppb	6,821.065 ppb	7,843.467 ppb	2,397.342 ppb	7,151.393 ppb	43,285.802 ppb	81.401 %
Concentration per Run 2	92.881 %	95.176 %	30.471 ppb	4,943.915 ppb	6,033.589 ppb	2,176.543 ppb	5,112.744 ppb	39,586.478 ppb	81.941 %
Concentration per Run 3	92.496 %	100.742 %	29.936 ppb	3,737.140 ppb	4,746.957 ppb	2,132.981 ppb	4,037.077 ppb	38,794.527 ppb	79.299 %
Concentration RSD	0.7 %	8.4 %	0.9 %	30.1 %	25.1 %	6.3 %	29.1 %	5.9 %	1.7 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	49.133 ppb	48.636 ppb	344.866 ppb	17,663.323 ppb	52.364 ppb	63.468 ppb	55.952 ppb	88.213 ppb	95.981 %
Concentration per Run 1	60.788 ppb	60.497 ppb	362.350 ppb	19,032.085 ppb	63.048 ppb	74.873 ppb	66.030 ppb	98.375 ppb	98.373 %
Concentration per Run 2	48.710 ppb	47.351 ppb	338.309 ppb	17,269.733 ppb	52.265 ppb	62.916 ppb	56.316 ppb	87.019 ppb	95.219 %
Concentration per Run 3	37.901 ppb	38.061 ppb	333.939 ppb	16,688.151 ppb	41.778 ppb	52.616 ppb	45.511 ppb	79.245 ppb	94.351 %
Concentration RSD	23.3 %	23.2 %	4.4 %	6.9 %	20.3 %	17.6 %	18.3 %	10.9 %	2.2 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	80.083 ppb	51.540 ppb	147.092 ppb	48.345 ppb	89.725 %	0.568 ppb	48.144 ppb	89.500 %	48.890 ppb
Concentration per Run 1	89.774 ppb	61.944 ppb	157.596 ppb	58.105 ppb	88.662 %	0.697 ppb	59.931 ppb	86.744 %	61.700 ppb
Concentration per Run 2	79.667 ppb	51.980 ppb	145.979 ppb	49.163 ppb	90.193 %	0.556 ppb	47.237 ppb	91.186 %	47.069 ppb
Concentration per Run 3	70.808 ppb	40.696 ppb	137.702 ppb	37.768 ppb	90.319 %	0.452 ppb	37.263 ppb	90.569 %	37.903 ppb
Concentration RSD	11.8 %	20.6 %	6.8 %	21.1 %	1.0 %	21.7 %	23.6 %	2.7 %	24.5 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	61.900 ppb	72.372 %	69.133 %	49.754 ppb	56.690 ppb	100.690 %
Concentration per Run 1	74.898 ppb	70.347 %	67.139 %	62.346 ppb	68.811 ppb	95.381 %
Concentration per Run 2	61.047 ppb	72.885 %	69.078 %	49.073 ppb	55.937 ppb	101.726 %
Concentration per Run 3	49.757 ppb	73.885 %	71.183 %	37.842 ppb	45.322 ppb	104.964 %
Concentration RSD	20.3 %	2.5 %	2.9 %	24.7 %	20.7 %	4.8 %

Alpha ICPMSQ2 Data with SRD

3/5/2024 9:03:09 PM

Analysis index:	37	User name	ALPHALAB\a2-icpmsq2	Comment	<Comment>
Analysis label:	xWG1892073-4d10 6020TS	Rack	1		
Analysis started at:	3/5/2024 8:33:11 AM	Vial	30		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	95.903 %	96.939 %	4.022 ppb	65.682 ppb	6,337.233 ppb	9,144.012 ppb	516.959 ppb	169,470.726 ppb	87.244 %
Concentration per Run 1	96.469 %	98.516 %	4.020 ppb	62.056 ppb	6,262.299 ppb	9,050.836 ppb	601.080 ppb	166,515.121 ppb	88.048 %
Concentration per Run 2	94.978 %	94.341 %	4.010 ppb	68.074 ppb	6,561.131 ppb	9,437.532 ppb	537.690 ppb	177,718.784 ppb	85.635 %
Concentration per Run 3	96.260 %	97.959 %	4.037 ppb	66.915 ppb	6,188.269 ppb	8,943.669 ppb	412.107 ppb	164,178.272 ppb	88.048 %
Concentration RSD	0.8 %	2.3 %	0.3 %	4.9 %	3.1 %	2.8 %	18.6 %	4.3 %	1.6 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	8.191 ppb	11.792 ppb	1,495.282 ppb	63,111.834 ppb	19.451 ppb	74.529 ppb	42.647 ppb	185.742 ppb	96.309 %
Concentration per Run 1	8.328 ppb	11.383 ppb	1,435.296 ppb	61,879.499 ppb	19.149 ppb	73.975 ppb	41.431 ppb	182.239 ppb	95.769 %
Concentration per Run 2	8.681 ppb	12.601 ppb	1,594.758 ppb	66,256.165 ppb	20.841 ppb	79.281 ppb	45.519 ppb	198.822 ppb	89.979 %
Concentration per Run 3	7.563 ppb	11.392 ppb	1,455.791 ppb	61,199.840 ppb	18.364 ppb	70.332 ppb	40.990 ppb	176.164 ppb	103.179 %
Concentration RSD	7.0 %	5.9 %	5.8 %	4.3 %	6.5 %	6.0 %	5.9 %	6.3 %	6.9 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	159.400 ppb	4.500 ppb	487.180 ppb	3.610 ppb	87.900 %	0.210 ppb	0.649 ppb	90.276 %	0.857 ppb
Concentration per Run 1	158.318 ppb	4.791 ppb	485.020 ppb	3.488 ppb	85.516 %	0.231 ppb	0.678 ppb	87.692 %	0.914 ppb
Concentration per Run 2	168.683 ppb	4.493 ppb	506.490 ppb	3.887 ppb	87.917 %	0.206 ppb	0.557 ppb	89.271 %	0.859 ppb
Concentration per Run 3	151.197 ppb	4.216 ppb	470.029 ppb	3.455 ppb	90.267 %	0.193 ppb	0.713 ppb	93.865 %	0.799 ppb
Concentration RSD	5.5 %	6.4 %	3.8 %	6.7 %	2.7 %	9.3 %	12.6 %	3.6 %	6.7 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	52.433 ppb	62.256 %	56.581 %	0.539 ppb	34.669 ppb	101.304 %
Concentration per Run 1	53.969 ppb	61.760 %	55.175 %	0.472 ppb	34.268 ppb	99.961 %
Concentration per Run 2	51.761 ppb	62.325 %	56.815 %	0.613 ppb	35.214 ppb	101.191 %
Concentration per Run 3	51.569 ppb	62.683 %	57.754 %	0.532 ppb	34.524 ppb	102.760 %
Concentration RSD	2.5 %	0.7 %	2.3 %	13.2 %	1.4 %	1.4 %

Alpha ICPMSQ2 Data with SRD

3/5/2024 9:03:09 PM

Analysis index: 38
Analysis label: WG1892073-6d50 6020TS
Analysis started at: 3/5/2024 8:37:38 AM
User name ALPHALAB\a2-icpmsq2
Rack 1
Vial 32
Comment <Comment>

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	90.685 %	100.371 %	0.921 ppb	7.196 ppb	1,288.135 ppb	2,045.586 ppb	79.898 ppb	27,363.232 ppb	74.956 %
Concentration per Run 1	89.895 %	96.011 %	0.953 ppb	8.195 ppb	1,327.298 ppb	2,103.737 ppb	58.750 ppb	27,410.697 ppb	74.418 %
Concentration per Run 2	91.112 %	102.134 %	0.925 ppb	6.466 ppb	1,289.487 ppb	2,016.500 ppb	95.368 ppb	26,729.995 ppb	75.591 %
Concentration per Run 3	91.048 %	102.968 %	0.883 ppb	6.926 ppb	1,247.618 ppb	2,016.522 ppb	85.576 ppb	27,949.006 ppb	74.857 %
Concentration RSD	0.8 %	3.8 %	3.8 %	12.4 %	3.1 %	2.5 %	23.7 %	2.2 %	0.8 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	2.032 ppb	7.070 ppb	267.832 ppb	13,407.831 ppb	3.585 ppb	14.791 ppb	7.020 ppb	44.172 ppb	89.753 %
Concentration per Run 1	1.932 ppb	7.018 ppb	269.270 ppb	13,207.194 ppb	3.535 ppb	14.775 ppb	7.045 ppb	43.876 ppb	90.476 %
Concentration per Run 2	1.915 ppb	7.046 ppb	259.902 ppb	13,053.914 ppb	3.610 ppb	14.531 ppb	7.196 ppb	43.003 ppb	91.868 %
Concentration per Run 3	2.249 ppb	7.145 ppb	274.325 ppb	13,962.385 ppb	3.610 ppb	15.069 ppb	6.820 ppb	45.637 ppb	86.916 %
Concentration RSD	9.2 %	1.0 %	2.7 %	3.6 %	1.2 %	1.8 %	2.7 %	3.0 %	2.8 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	19.782 ppb	0.871 ppb	87.979 ppb	1.035 ppb	85.751 %	0.050 ppb	0.175 ppb	83.326 %	0.077 ppb
Concentration per Run 1	19.060 ppb	0.967 ppb	88.443 ppb	0.889 ppb	87.059 %	0.061 ppb	0.177 ppb	83.936 %	0.071 ppb
Concentration per Run 2	19.698 ppb	0.548 ppb	84.035 ppb	1.109 ppb	83.553 %	0.035 ppb	0.196 ppb	80.478 %	0.086 ppb
Concentration per Run 3	20.588 ppb	1.097 ppb	91.460 ppb	1.108 ppb	86.641 %	0.055 ppb	0.151 ppb	85.564 %	0.073 ppb
Concentration RSD	3.9 %	33.0 %	4.2 %	12.3 %	2.2 %	26.4 %	12.8 %	3.1 %	10.4 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	9.237 ppb	69.462 %	65.873 %	0.159 ppb	6.307 ppb	96.050 %
Concentration per Run 1	9.070 ppb	69.334 %	64.264 %	0.110 ppb	6.339 ppb	94.586 %
Concentration per Run 2	9.010 ppb	67.614 %	65.403 %	0.188 ppb	6.255 ppb	95.398 %
Concentration per Run 3	9.631 ppb	71.438 %	67.954 %	0.179 ppb	6.327 ppb	98.167 %
Concentration RSD	3.7 %	2.8 %	2.9 %	26.8 %	0.7 %	2.0 %

Alpha ICPMSQ2 Data with SRD

3/5/2024 9:03:09 PM

Analysis index:	39	User name	ALPHALAB\a2-icpmsq2	Comment	<Comment>
Analysis label:	I2408641-56d10 6020TS	Rack	1		
Analysis started at:	3/5/2024 8:42:06 AM	Vial	28		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	93.021 %	96.289 %	3.854 ppb	36.770 ppb	6,500.628 ppb	9,030.824 ppb	473.577 ppb	132,314.329 ppb	80.787 %
Concentration per Run 1	92.214 %	98.516 %	3.847 ppb	33.953 ppb	6,392.751 ppb	8,956.225 ppb	465.565 ppb	132,333.130 ppb	80.986 %
Concentration per Run 2	92.862 %	93.228 %	3.830 ppb	40.643 ppb	6,625.055 ppb	9,128.195 ppb	401.407 ppb	134,469.521 ppb	80.642 %
Concentration per Run 3	93.987 %	97.124 %	3.885 ppb	35.714 ppb	6,484.078 ppb	9,008.052 ppb	553.757 ppb	130,140.334 ppb	80.735 %
Concentration RSD	1.0 %	2.8 %	0.7 %	9.4 %	1.8 %	1.0 %	16.2 %	1.6 %	0.2 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	9.414 ppb	34.242 ppb	1,300.982 ppb	63,922.023 ppb	16.982 ppb	69.160 ppb	31.598 ppb	194.919 ppb	94.294 %
Concentration per Run 1	9.568 ppb	33.738 ppb	1,288.512 ppb	63,197.166 ppb	16.686 ppb	68.874 ppb	31.514 ppb	193.451 ppb	94.625 %
Concentration per Run 2	9.257 ppb	34.341 ppb	1,313.069 ppb	64,678.175 ppb	17.301 ppb	70.278 ppb	32.549 ppb	196.173 ppb	93.628 %
Concentration per Run 3	9.416 ppb	34.647 ppb	1,301.365 ppb	63,890.729 ppb	16.958 ppb	68.327 ppb	30.730 ppb	195.132 ppb	94.628 %
Concentration RSD	1.7 %	1.4 %	0.9 %	1.2 %	1.8 %	1.5 %	2.9 %	0.7 %	0.6 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	92.067 ppb	4.133 ppb	435.288 ppb	4.427 ppb	84.852 %	0.207 ppb	0.835 ppb	85.709 %	0.602 ppb
Concentration per Run 1	90.801 ppb	3.902 ppb	433.289 ppb	4.326 ppb	83.077 %	0.210 ppb	0.810 ppb	84.093 %	0.631 ppb
Concentration per Run 2	91.930 ppb	3.987 ppb	435.224 ppb	4.208 ppb	85.246 %	0.181 ppb	0.860 ppb	85.572 %	0.559 ppb
Concentration per Run 3	93.469 ppb	4.509 ppb	437.351 ppb	4.747 ppb	86.234 %	0.229 ppb	0.834 ppb	87.461 %	0.617 ppb
Concentration RSD	1.5 %	8.0 %	0.5 %	6.4 %	1.9 %	11.8 %	3.0 %	2.0 %	6.4 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	50.593 ppb	60.275 %	55.457 %	0.334 ppb	30.925 ppb	95.415 %
Concentration per Run 1	50.106 ppb	59.710 %	55.474 %	0.288 ppb	30.614 ppb	94.469 %
Concentration per Run 2	51.059 ppb	59.884 %	55.347 %	0.356 ppb	31.102 ppb	94.985 %
Concentration per Run 3	50.614 ppb	61.232 %	55.550 %	0.358 ppb	31.060 ppb	96.792 %
Concentration RSD	0.9 %	1.4 %	0.2 %	12.0 %	0.9 %	1.3 %

Alpha ICPMSQ2 Data with SRD

3/5/2024 9:03:09 PM

Analysis index:	40	User name	ALPHALAB\a2-icpmsq2	Comment	<Comment>
Analysis label:	I2406395-102d10 6020TS	Rack	1		
Analysis started at:	3/5/2024 8:46:33 AM	Vial	33		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	96.294 %	98.516 %	1.542 ppb	110.094 ppb	7,912.242 ppb	16,559.204 ppb	1,206.481 ppb	131,022.104 ppb	82.562 %
Concentration per Run 1	95.739 %	101.020 %	1.517 ppb	107.337 ppb	7,731.233 ppb	16,181.724 ppb	1,238.585 ppb	129,684.396 ppb	82.071 %
Concentration per Run 2	96.769 %	100.186 %	1.537 ppb	108.604 ppb	7,719.549 ppb	16,209.954 ppb	1,246.005 ppb	127,554.821 ppb	82.766 %
Concentration per Run 3	96.375 %	94.341 %	1.572 ppb	114.342 ppb	8,285.943 ppb	17,285.935 ppb	1,134.853 ppb	135,827.095 ppb	82.849 %
Concentration RSD	0.5 %	3.7 %	1.8 %	3.4 %	4.1 %	3.8 %	5.2 %	3.3 %	0.5 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	34.258 ppb	29.714 ppb	1,577.647 ppb	68,501.904 ppb	30.201 ppb	41.453 ppb	67.431 ppb	248.300 ppb	93.084 %
Concentration per Run 1	34.981 ppb	29.707 ppb	1,573.066 ppb	68,268.167 ppb	30.875 ppb	41.263 ppb	68.224 ppb	248.914 ppb	90.269 %
Concentration per Run 2	32.557 ppb	29.485 ppb	1,545.081 ppb	67,552.802 ppb	28.945 ppb	40.014 ppb	66.266 ppb	245.558 ppb	93.442 %
Concentration per Run 3	35.236 ppb	29.951 ppb	1,614.795 ppb	69,684.743 ppb	30.783 ppb	43.084 ppb	67.804 ppb	250.430 ppb	95.540 %
Concentration RSD	4.3 %	0.8 %	2.2 %	1.6 %	3.6 %	3.7 %	1.5 %	1.0 %	2.9 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	17.653 ppb	3.566 ppb	608.142 ppb	2.478 ppb	83.570 %	0.163 ppb	1.050 ppb	84.310 %	1.035 ppb
Concentration per Run 1	17.793 ppb	3.405 ppb	626.270 ppb	2.490 ppb	82.156 %	0.155 ppb	1.120 ppb	84.056 %	0.995 ppb
Concentration per Run 2	17.325 ppb	3.616 ppb	609.313 ppb	2.549 ppb	84.368 %	0.163 ppb	1.082 ppb	85.241 %	1.045 ppb
Concentration per Run 3	17.843 ppb	3.678 ppb	588.842 ppb	2.396 ppb	84.187 %	0.172 ppb	0.948 ppb	83.632 %	1.064 ppb
Concentration RSD	1.6 %	4.0 %	3.1 %	3.1 %	1.5 %	5.0 %	8.6 %	1.0 %	3.4 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	167.990 ppb	57.010 %	50.996 %	1.056 ppb	111.385 ppb	95.684 %
Concentration per Run 1	170.342 ppb	56.184 %	50.555 %	1.033 ppb	110.637 ppb	94.040 %
Concentration per Run 2	170.651 ppb	57.480 %	51.681 %	1.061 ppb	111.911 ppb	96.137 %
Concentration per Run 3	162.978 ppb	57.366 %	50.752 %	1.072 ppb	111.608 ppb	96.875 %
Concentration RSD	2.6 %	1.3 %	1.2 %	1.9 %	0.6 %	1.5 %

Alpha ICPMSQ2 Data with SRD

3/5/2024 9:03:09 PM

Analysis index:	41	User name	ALPHALAB\a2-icpmsq2	Comment	<Comment>
Analysis label:	I2408641-57d10 6020TS	Rack	1		
Analysis started at:	3/5/2024 8:51:01 AM	Vial	34		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	96.158 %	98.980 %	3.424 ppb	80.415 ppb	7,757.457 ppb	12,650.638 ppb	703.125 ppb	144,351.354 ppb	83.411 %
Concentration per Run 1	95.154 %	98.794 %	3.524 ppb	82.776 ppb	7,973.960 ppb	13,470.767 ppb	785.568 ppb	153,357.800 ppb	83.446 %
Concentration per Run 2	96.481 %	96.846 %	3.384 ppb	78.282 ppb	7,609.637 ppb	12,294.610 ppb	666.500 ppb	138,470.197 ppb	84.478 %
Concentration per Run 3	96.839 %	101.299 %	3.364 ppb	80.186 ppb	7,688.775 ppb	12,186.538 ppb	657.308 ppb	141,226.065 ppb	82.308 %
Concentration RSD	0.9 %	2.3 %	2.5 %	2.8 %	2.5 %	5.6 %	10.2 %	5.5 %	1.3 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	15.247 ppb	13.256 ppb	1,478.680 ppb	58,284.742 ppb	20.262 ppb	60.436 ppb	42.370 ppb	207.185 ppb	99.836 %
Concentration per Run 1	15.495 ppb	13.598 ppb	1,541.186 ppb	59,735.658 ppb	20.624 ppb	62.902 ppb	43.569 ppb	211.139 ppb	99.763 %
Concentration per Run 2	15.157 ppb	12.939 ppb	1,426.304 ppb	57,280.237 ppb	20.230 ppb	58.875 ppb	41.377 ppb	206.519 ppb	101.189 %
Concentration per Run 3	15.090 ppb	13.231 ppb	1,468.550 ppb	57,838.332 ppb	19.931 ppb	59.532 ppb	42.165 ppb	203.897 ppb	98.555 %
Concentration RSD	1.4 %	2.5 %	3.9 %	2.2 %	1.7 %	3.6 %	2.6 %	1.8 %	1.3 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	18.783 ppb	3.854 ppb	583.730 ppb	1.793 ppb	89.721 %	0.197 ppb	0.999 ppb	90.244 %	0.881 ppb
Concentration per Run 1	19.886 ppb	4.135 ppb	615.728 ppb	1.592 ppb	90.335 %	0.194 ppb	0.986 ppb	94.132 %	0.850 ppb
Concentration per Run 2	18.526 ppb	3.765 ppb	579.040 ppb	1.808 ppb	88.843 %	0.207 ppb	0.922 ppb	88.728 %	0.893 ppb
Concentration per Run 3	17.938 ppb	3.661 ppb	556.421 ppb	1.980 ppb	89.983 %	0.190 ppb	1.088 ppb	87.874 %	0.900 ppb
Concentration RSD	5.3 %	6.5 %	5.1 %	10.8 %	0.9 %	4.4 %	8.4 %	3.8 %	3.1 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	109.457 ppb	62.529 %	57.285 %	0.475 ppb	64.788 ppb	99.887 %
Concentration per Run 1	110.078 ppb	62.533 %	59.941 %	0.468 ppb	64.063 ppb	99.901 %
Concentration per Run 2	111.056 ppb	62.497 %	56.143 %	0.474 ppb	64.642 ppb	99.512 %
Concentration per Run 3	107.239 ppb	62.557 %	55.771 %	0.481 ppb	65.659 ppb	100.248 %
Concentration RSD	1.8 %	0.0 %	4.0 %	1.4 %	1.2 %	0.4 %

Alpha ICPMSQ2 Data with SRD

3/5/2024 9:03:09 PM

Analysis index:	42	User name	ALPHALAB\a2-icpmsq2	Comment	<Comment>
Analysis label:	xLDR Check - As 1 ppm	Rack	1		
Analysis started at:	3/5/2024 8:55:30 AM	Vial	36		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	85.755 %	90.352 %	0.003 ppb	7.593 ppb	0.840 ppb	0.810 ppb	5.161 ppb	17.840 ppb	81.103 %
Concentration per Run 1	85.548 %	99.072 %	0.003 ppb	7.784 ppb	1.779 ppb	0.305 ppb	10.117 ppb	16.475 ppb	81.299 %
Concentration per Run 2	84.578 %	82.931 %	0.005 ppb	9.050 ppb	0.072 ppb	1.224 ppb	2.757 ppb	13.073 ppb	79.600 %
Concentration per Run 3	87.137 %	89.054 %	0.000 ppb	5.945 ppb	0.668 ppb	0.900 ppb	2.610 ppb	23.974 ppb	82.411 %
Concentration RSD	1.5 %	9.0 %	80.2 %	20.6 %	103.2 %	57.6 %	83.2 %	31.3 %	1.7 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.007 ppb	-0.023 ppb	0.079 ppb	18.283 ppb	0.006 ppb	0.132 ppb	0.392 ppb	0.614 ppb	91.722 %
Concentration per Run 1	0.032 ppb	-0.015 ppb	0.028 ppb	13.929 ppb	0.015 ppb	0.229 ppb	0.408 ppb	0.669 ppb	89.607 %
Concentration per Run 2	0.003 ppb	-0.008 ppb	0.117 ppb	18.257 ppb	0.002 ppb	0.048 ppb	0.368 ppb	0.609 ppb	92.660 %
Concentration per Run 3	-0.014 ppb	-0.045 ppb	0.092 ppb	22.665 ppb	0.002 ppb	0.120 ppb	0.401 ppb	0.564 ppb	92.900 %
Concentration RSD	338.0 %	88.5 %	57.7 %	23.9 %	117.1 %	68.8 %	5.5 %	8.6 %	2.0 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	576.918 ppb	0.032 ppb	0.056 ppb	0.028 ppb	88.250 %	0.000 ppb	-0.001 ppb	89.242 %	-0.089 ppb
Concentration per Run 1	644.586 ppb	0.059 ppb	0.049 ppb	0.022 ppb	86.372 %	0.001 ppb	-0.001 ppb	88.156 %	-0.098 ppb
Concentration per Run 2	551.908 ppb	-0.003 ppb	0.053 ppb	0.031 ppb	90.339 %	-0.002 ppb	-0.001 ppb	90.671 %	-0.090 ppb
Concentration per Run 3	534.260 ppb	0.041 ppb	0.064 ppb	0.032 ppb	88.039 %	0.001 ppb	-0.001 ppb	88.901 %	-0.079 ppb
Concentration RSD	10.3 %	99.7 %	13.9 %	20.1 %	2.3 %	994.4 %	0.0 %	1.4 %	10.9 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.017 ppb	88.453 %	87.769 %	0.036 ppb	0.099 ppb	98.074 %
Concentration per Run 1	0.032 ppb	86.005 %	87.299 %	0.021 ppb	0.104 ppb	95.246 %
Concentration per Run 2	0.016 ppb	89.523 %	88.372 %	0.049 ppb	0.094 ppb	98.914 %
Concentration per Run 3	0.002 ppb	89.833 %	87.637 %	0.038 ppb	0.097 ppb	100.063 %
Concentration RSD	88.3 %	2.4 %	0.6 %	38.8 %	5.2 %	2.6 %

Alpha ICPMSQ2 Data with SRD

3/5/2024 9:03:09 PM

Analysis index:	43	User name	ALPHALAB\a2-icpmsq2	Comment	<Comment>
Analysis label:	WG1891910-6d50 6020TL	Rack	1		
Analysis started at:	3/5/2024 8:59:59 AM	Vial	25		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	93.428 %	91.466 %	0.005 ppb	2,814.464 ppb	917.521 ppb	1.499 ppb	81.409 ppb	570.042 ppb	89.943 %
Concentration per Run 1	92.949 %	92.115 %	-0.002 ppb	2,774.816 ppb	903.784 ppb	1.372 ppb	98.565 ppb	562.527 ppb	89.233 %
Concentration per Run 2	94.070 %	90.723 %	0.014 ppb	2,852.787 ppb	932.770 ppb	1.683 ppb	71.671 ppb	608.204 ppb	90.346 %
Concentration per Run 3	93.267 %	91.558 %	0.005 ppb	2,815.790 ppb	916.010 ppb	1.442 ppb	73.989 ppb	539.393 ppb	90.249 %
Concentration RSD	0.6 %	0.8 %	147.4 %	1.4 %	1.6 %	10.9 %	18.3 %	6.1 %	0.7 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.002 ppb	0.344 ppb	3.096 ppb	12.339 ppb	0.020 ppb	0.459 ppb	0.474 ppb	0.375 ppb	97.900 %
Concentration per Run 1	0.026 ppb	0.304 ppb	2.969 ppb	7.266 ppb	0.025 ppb	0.311 ppb	0.498 ppb	0.363 ppb	102.839 %
Concentration per Run 2	0.001 ppb	0.380 ppb	3.076 ppb	12.605 ppb	0.027 ppb	0.597 ppb	0.480 ppb	0.353 ppb	93.618 %
Concentration per Run 3	-0.032 ppb	0.349 ppb	3.244 ppb	17.147 ppb	0.010 ppb	0.469 ppb	0.445 ppb	0.408 ppb	97.242 %
Concentration RSD	1,843.5 %	11.1 %	4.5 %	40.1 %	45.8 %	31.2 %	5.7 %	7.9 %	4.7 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	1.117 ppb	0.082 ppb	1.596 ppb	0.080 ppb	94.040 %	0.000 ppb	0.003 ppb	94.402 %	-0.087 ppb
Concentration per Run 1	1.183 ppb	-0.024 ppb	1.626 ppb	0.039 ppb	94.197 %	-0.001 ppb	-0.001 ppb	95.772 %	-0.095 ppb
Concentration per Run 2	1.023 ppb	0.179 ppb	1.631 ppb	0.121 ppb	93.213 %	-0.002 ppb	0.002 ppb	92.821 %	-0.083 ppb
Concentration per Run 3	1.146 ppb	0.090 ppb	1.531 ppb	0.079 ppb	94.711 %	0.003 ppb	0.008 ppb	94.612 %	-0.082 ppb
Concentration RSD	7.5 %	124.4 %	3.5 %	51.5 %	0.8 %	609.6 %	147.0 %	1.6 %	8.6 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	1.900 ppb	94.077 %	94.691 %	0.020 ppb	0.089 ppb	104.723 %
Concentration per Run 1	1.877 ppb	95.389 %	95.981 %	0.013 ppb	0.092 ppb	103.882 %
Concentration per Run 2	2.017 ppb	93.926 %	94.294 %	0.023 ppb	0.089 ppb	103.807 %
Concentration per Run 3	1.805 ppb	92.917 %	93.799 %	0.025 ppb	0.086 ppb	106.481 %
Concentration RSD	5.7 %	1.3 %	1.2 %	30.7 %	3.5 %	1.5 %

Alpha ICPMSQ2 Data with SRD

3/5/2024 9:03:09 PM

Analysis index:	44	User name	ALPHALAB\a2-icpmsq2	Comment	<Comment>
Analysis label:	CCV	Rack	0		
Analysis started at:	3/5/2024 9:04:25 AM	Vial	9		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	95.574 %	95.733 %	62.648 ppb	6,027.500 ppb	6,057.662 ppb	61.812 ppb	5,892.876 ppb	6,280.771 ppb	90.692 %
Concentration per Run 1	94.621 %	100.186 %	62.886 ppb	5,745.291 ppb	5,754.670 ppb	57.184 ppb	5,651.341 ppb	6,033.415 ppb	89.869 %
Concentration per Run 2	95.678 %	96.289 %	62.317 ppb	6,113.997 ppb	6,234.582 ppb	64.812 ppb	6,132.567 ppb	6,500.781 ppb	91.158 %
Concentration per Run 3	96.422 %	90.723 %	62.741 ppb	6,223.212 ppb	6,183.733 ppb	63.440 ppb	5,894.720 ppb	6,308.119 ppb	91.048 %
Recovery Percentage 1			104.413 %	100.458 %	100.961 %	103.020 %	98.215 %	104.680 %	
Concentration RSD	0.9 %	5.0 %	0.5 %	4.2 %	4.4 %	6.6 %	4.1 %	3.7 %	0.8 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	62.026 ppb	61.409 ppb	62.257 ppb	6,178.160 ppb	62.969 ppb	64.101 ppb	63.263 ppb	62.946 ppb	97.841 %
Concentration per Run 1	61.096 ppb	61.741 ppb	62.292 ppb	6,207.484 ppb	64.926 ppb	65.371 ppb	65.293 ppb	63.699 ppb	91.020 %
Concentration per Run 2	61.180 ppb	61.779 ppb	62.289 ppb	6,118.786 ppb	62.292 ppb	62.708 ppb	62.060 ppb	63.176 ppb	103.519 %
Concentration per Run 3	63.802 ppb	60.708 ppb	62.191 ppb	6,208.211 ppb	61.688 ppb	64.224 ppb	62.437 ppb	61.962 ppb	98.983 %
Recovery Percentage 1	103.377 %	102.349 %	103.762 %	102.969 %	104.948 %	106.835 %	105.439 %	104.910 %	
Concentration RSD	2.5 %	1.0 %	0.1 %	0.8 %	2.7 %	2.1 %	2.8 %	1.4 %	6.5 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	62.566 ppb	64.544 ppb	60.245 ppb	61.167 ppb	95.519 %	60.633 ppb	60.326 ppb	95.530 %	56.039 ppb
Concentration per Run 1	64.890 ppb	65.545 ppb	59.863 ppb	62.798 ppb	92.410 %	61.415 ppb	60.574 ppb	91.467 %	57.149 ppb
Concentration per Run 2	61.335 ppb	65.858 ppb	62.344 ppb	61.204 ppb	97.615 %	60.188 ppb	60.513 ppb	99.750 %	55.635 ppb
Concentration per Run 3	61.474 ppb	62.230 ppb	58.529 ppb	59.500 ppb	96.532 %	60.297 ppb	59.890 ppb	95.373 %	55.335 ppb
Recovery Percentage 1	104.277 %	107.574 %	100.409 %	101.945 %		101.056 %	100.543 %		93.399 %
Concentration RSD	3.2 %	3.1 %	3.2 %	2.7 %	2.9 %	1.1 %	0.6 %	4.3 %	1.7 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	59.482 ppb	90.118 %	88.968 %	60.102 ppb	60.559 ppb	103.987 %
Concentration per Run 1	59.372 ppb	86.797 %	83.482 %	59.644 ppb	59.969 ppb	102.224 %
Concentration per Run 2	59.936 ppb	92.295 %	93.463 %	59.402 ppb	60.405 ppb	106.065 %
Concentration per Run 3	59.137 ppb	91.262 %	89.959 %	61.260 ppb	61.303 ppb	103.671 %
Recovery Percentage 1	99.136 %			100.170 %	100.932 %	
Concentration RSD	0.7 %	3.2 %	5.7 %	1.7 %	1.1 %	1.9 %

Alpha ICPMSQ2 Data with SRD

3/5/2024 9:03:09 PM

Analysis index:	45	User name	ALPHALAB\a2-icpmsq2	Comment	<Comment>
Analysis label:	CCB	Rack	0		
Analysis started at:	3/5/2024 9:08:56 AM	Vial	10		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	91.452 %	101.020 %	0.004 ppb	-5.567 ppb	-0.724 ppb	-1.041 ppb	-1.412 ppb	0.885 ppb	89.430 %
Concentration per Run 1	90.992 %	105.195 %	0.004 ppb	-8.327 ppb	-0.740 ppb	-1.114 ppb	-10.112 ppb	5.310 ppb	90.191 %
Concentration per Run 2	91.283 %	97.959 %	0.004 ppb	-3.457 ppb	-0.712 ppb	-1.089 ppb	4.746 ppb	-3.594 ppb	89.458 %
Concentration per Run 3	92.082 %	99.907 %	0.003 ppb	-4.917 ppb	-0.718 ppb	-0.922 ppb	1.130 ppb	0.940 ppb	88.641 %
Recovery Percentage 1			0.806 %	-5.567 %	-1.034 %	-10.415 %	-1.412 %	0.885 %	
Concentration RSD	0.6 %	3.7 %	12.8 %	44.9 %	2.1 %	10.0 %	548.8 %	503.0 %	0.9 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.000 ppb	-0.024 ppb	-0.062 ppb	7.045 ppb	-0.001 ppb	0.005 ppb	-0.009 ppb	0.063 ppb	91.144 %
Concentration per Run 1	-0.016 ppb	-0.012 ppb	-0.056 ppb	2.754 ppb	-0.002 ppb	-0.005 ppb	-0.009 ppb	0.087 ppb	89.952 %
Concentration per Run 2	-0.016 ppb	-0.042 ppb	-0.097 ppb	11.298 ppb	0.002 ppb	-0.051 ppb	-0.009 ppb	0.057 ppb	92.526 %
Concentration per Run 3	0.031 ppb	-0.020 ppb	-0.035 ppb	7.082 ppb	-0.002 ppb	0.072 ppb	-0.009 ppb	0.043 ppb	90.955 %
Recovery Percentage 1	-0.007 %	-2.439 %	-6.248 %	14.089 %	-0.190 %	0.269 %	-0.914 %	1.251 %	
Concentration RSD	8,121.4 %	63.8 %	50.3 %	60.6 %	252.1 %	1,148.3 %	2.3 %	35.4 %	1.4 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.289 ppb	0.064 ppb	0.000 ppb	0.108 ppb	89.964 %	0.002 ppb	0.000 ppb	89.201 %	0.026 ppb
Concentration per Run 1	0.197 ppb	0.065 ppb	-0.011 ppb	0.137 ppb	89.008 %	0.003 ppb	-0.001 ppb	87.484 %	-0.006 ppb
Concentration per Run 2	0.382 ppb	0.030 ppb	0.009 ppb	0.103 ppb	90.779 %	0.000 ppb	0.002 ppb	92.304 %	0.053 ppb
Concentration per Run 3	0.288 ppb	0.099 ppb	0.003 ppb	0.083 ppb	90.105 %	0.002 ppb	-0.001 ppb	87.815 %	0.031 ppb
Recovery Percentage 1	57.782 %	1.288 %	0.001 %	5.399 %		0.392 %	0.066 %		0.649 %
Concentration RSD	32.1 %	53.7 %	9,146.7 %	25.2 %	1.0 %	68.4 %	1,406.6 %	3.0 %	114.7 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.012 ppb	89.953 %	90.380 %	0.232 ppb	-0.007 ppb	99.790 %
Concentration per Run 1	0.017 ppb	88.652 %	87.695 %	0.176 ppb	-0.008 ppb	98.498 %
Concentration per Run 2	0.002 ppb	90.882 %	92.708 %	0.272 ppb	-0.008 ppb	101.554 %
Concentration per Run 3	0.017 ppb	90.325 %	90.736 %	0.248 ppb	-0.004 ppb	99.317 %
Recovery Percentage 1	2.376 %			23.207 %	-0.651 %	
Concentration RSD	74.4 %	1.3 %	2.8 %	21.7 %	34.1 %	1.6 %

Alpha ICPMSQ2 Data with SRD

3/5/2024 9:03:09 PM

Analysis index:	46	User name	ALPHALAB\a2-icpmsq2	Comment	<Comment>
Analysis label:	xLDR Check - As 1 ppm	Rack	1		
Analysis started at:	3/5/2024 9:19:27 AM	Vial	37		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	89.515 %	90.816 %	0.003 ppb	2.358 ppb	2.040 ppb	0.587 ppb	6.571 ppb	11.028 ppb	83.237 %
Concentration per Run 1	89.787 %	89.054 %	0.002 ppb	6.261 ppb	2.443 ppb	0.028 ppb	6.550 ppb	11.393 ppb	83.711 %
Concentration per Run 2	89.005 %	89.610 %	0.003 ppb	-1.013 ppb	2.067 ppb	1.055 ppb	2.136 ppb	13.609 ppb	82.316 %
Concentration per Run 3	89.752 %	93.785 %	0.005 ppb	1.825 ppb	1.609 ppb	0.678 ppb	11.027 ppb	8.084 ppb	83.683 %
Concentration RSD	0.5 %	2.8 %	51.2 %	155.5 %	20.5 %	88.5 %	67.7 %	25.2 %	1.0 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.012 ppb	0.007 ppb	0.044 ppb	8.235 ppb	0.006 ppb	-0.001 ppb	0.548 ppb	0.467 ppb	85.043 %
Concentration per Run 1	0.006 ppb	-0.009 ppb	0.039 ppb	9.575 ppb	0.012 ppb	0.020 ppb	0.485 ppb	0.491 ppb	83.412 %
Concentration per Run 2	-0.012 ppb	0.014 ppb	0.037 ppb	4.334 ppb	0.003 ppb	0.015 ppb	0.607 ppb	0.492 ppb	84.998 %
Concentration per Run 3	-0.029 ppb	0.016 ppb	0.055 ppb	10.797 ppb	0.002 ppb	-0.039 ppb	0.552 ppb	0.417 ppb	86.719 %
Concentration RSD	153.5 %	205.6 %	22.6 %	41.7 %	97.8 %	2,614.3 %	11.1 %	9.3 %	1.9 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	1,408.357 ppb	0.141 ppb	0.042 ppb	0.037 ppb	86.976 %	0.002 ppb	-0.001 ppb	85.608 %	-0.051 ppb
Concentration per Run 1	1,484.901 ppb	0.159 ppb	0.040 ppb	0.066 ppb	86.214 %	0.005 ppb	-0.001 ppb	84.554 %	-0.064 ppb
Concentration per Run 2	1,370.800 ppb	0.137 ppb	0.038 ppb	0.022 ppb	84.726 %	-0.002 ppb	-0.001 ppb	84.530 %	-0.054 ppb
Concentration per Run 3	1,369.370 ppb	0.126 ppb	0.049 ppb	0.021 ppb	89.988 %	0.003 ppb	-0.001 ppb	87.740 %	-0.036 ppb
Concentration RSD	4.7 %	11.8 %	13.5 %	70.3 %	3.1 %	163.1 %	0.0 %	2.2 %	27.0 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.048 ppb	86.243 %	86.594 %	0.033 ppb	0.091 ppb	96.875 %
Concentration per Run 1	0.034 ppb	84.116 %	83.627 %	0.016 ppb	0.083 ppb	95.960 %
Concentration per Run 2	0.079 ppb	85.213 %	86.980 %	0.045 ppb	0.095 ppb	95.722 %
Concentration per Run 3	0.031 ppb	89.401 %	89.176 %	0.038 ppb	0.096 ppb	98.942 %
Concentration RSD	55.3 %	3.2 %	3.2 %	45.2 %	7.7 %	1.9 %

Alpha ICPMSQ2 Data with SRD

3/5/2024 9:03:09 PM

Analysis index:	47	User name	ALPHALAB\a2-icpmsq2	Comment	<Comment>
Analysis label:	WG1892073-4d50 6020TS	Rack	1		
Analysis started at:	3/5/2024 9:25:17 AM	Vial	38		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	93.499 %	103.154 %	0.982 ppb	8.682 ppb	1,190.199 ppb	1,966.981 ppb	79.528 ppb	33,511.253 ppb	79.679 %
Concentration per Run 1	94.271 %	97.959 %	0.963 ppb	8.600 ppb	1,178.952 ppb	1,932.168 ppb	71.811 ppb	32,917.679 ppb	80.794 %
Concentration per Run 2	93.124 %	106.308 %	0.992 ppb	6.802 ppb	1,164.888 ppb	1,925.035 ppb	95.670 ppb	33,048.559 ppb	79.590 %
Concentration per Run 3	93.102 %	105.195 %	0.993 ppb	10.645 ppb	1,226.756 ppb	2,043.741 ppb	71.102 ppb	34,567.521 ppb	78.652 %
Concentration RSD	0.7 %	4.4 %	1.7 %	22.1 %	2.7 %	3.4 %	17.6 %	2.7 %	1.3 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	1.897 ppb	2.395 ppb	289.543 ppb	12,456.543 ppb	3.834 ppb	15.128 ppb	9.093 ppb	40.945 ppb	90.911 %
Concentration per Run 1	1.809 ppb	2.484 ppb	294.991 ppb	12,656.369 ppb	3.963 ppb	15.730 ppb	9.310 ppb	41.536 ppb	83.293 %
Concentration per Run 2	1.885 ppb	2.243 ppb	286.410 ppb	12,339.621 ppb	3.789 ppb	15.001 ppb	9.008 ppb	39.763 ppb	91.991 %
Concentration per Run 3	1.997 ppb	2.458 ppb	287.227 ppb	12,373.640 ppb	3.750 ppb	14.652 ppb	8.963 ppb	41.538 ppb	97.450 %
Concentration RSD	5.0 %	5.5 %	1.6 %	1.4 %	3.0 %	3.6 %	2.1 %	2.5 %	7.9 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	35.976 ppb	1.025 ppb	98.866 ppb	0.738 ppb	87.624 %	0.040 ppb	0.134 ppb	88.816 %	0.125 ppb
Concentration per Run 1	36.064 ppb	1.159 ppb	101.057 ppb	0.833 ppb	85.470 %	0.036 ppb	0.167 ppb	84.834 %	0.091 ppb
Concentration per Run 2	35.562 ppb	1.159 ppb	97.268 ppb	0.753 ppb	85.923 %	0.043 ppb	0.115 ppb	87.931 %	0.130 ppb
Concentration per Run 3	36.303 ppb	0.757 ppb	98.272 ppb	0.627 ppb	91.479 %	0.041 ppb	0.120 ppb	93.683 %	0.155 ppb
Concentration RSD	1.1 %	22.6 %	2.0 %	14.0 %	3.8 %	8.9 %	21.2 %	5.1 %	25.8 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	9.477 ppb	71.766 %	67.672 %	0.078 ppb	7.002 ppb	99.963 %
Concentration per Run 1	9.596 ppb	68.516 %	63.987 %	0.067 ppb	7.045 ppb	95.847 %
Concentration per Run 2	8.971 ppb	70.980 %	68.219 %	0.084 ppb	6.896 ppb	99.655 %
Concentration per Run 3	9.866 ppb	75.803 %	70.810 %	0.084 ppb	7.065 ppb	104.386 %
Concentration RSD	4.8 %	5.2 %	5.1 %	12.9 %	1.3 %	4.3 %

Alpha ICPMSQ2 Data with SRD

3/5/2024 9:03:09 PM

Analysis index:	48	User name	ALPHALAB\a2-icpmsq2	Comment	<Comment>
Analysis label:	CCV	Rack	0		
Analysis started at:	3/5/2024 9:30:34 AM	Vial	9		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	93.513 %	99.907 %	63.137 ppb	5,811.248 ppb	5,901.024 ppb	59.170 ppb	5,804.438 ppb	5,879.864 ppb	89.033 %
Concentration per Run 1	94.125 %	100.742 %	63.311 ppb	5,551.498 ppb	5,604.320 ppb	58.898 ppb	5,697.519 ppb	5,755.303 ppb	89.904 %
Concentration per Run 2	93.828 %	98.516 %	62.954 ppb	5,992.520 ppb	6,076.890 ppb	61.606 ppb	5,907.928 ppb	5,963.189 ppb	89.683 %
Concentration per Run 3	92.586 %	100.464 %	63.145 ppb	5,889.726 ppb	6,021.863 ppb	57.005 ppb	5,807.868 ppb	5,921.100 ppb	87.511 %
Recovery Percentage 1			105.228 %	96.854 %	98.350 %	98.616 %	96.741 %	97.998 %	
Concentration RSD	0.9 %	1.2 %	0.3 %	4.0 %	4.4 %	3.9 %	1.8 %	1.9 %	1.5 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	61.646 ppb	61.390 ppb	60.093 ppb	6,033.692 ppb	62.291 ppb	63.450 ppb	63.627 ppb	63.187 ppb	92.751 %
Concentration per Run 1	60.813 ppb	59.409 ppb	58.117 ppb	5,875.242 ppb	61.361 ppb	61.148 ppb	63.076 ppb	60.240 ppb	95.616 %
Concentration per Run 2	60.124 ppb	62.303 ppb	60.893 ppb	6,033.804 ppb	63.189 ppb	64.790 ppb	64.007 ppb	63.935 ppb	89.433 %
Concentration per Run 3	64.001 ppb	62.456 ppb	61.271 ppb	6,192.030 ppb	62.323 ppb	64.412 ppb	63.797 ppb	65.387 ppb	93.204 %
Recovery Percentage 1	102.743 %	102.316 %	100.155 %	100.562 %	103.818 %	105.750 %	106.044 %	105.312 %	
Concentration RSD	3.4 %	2.8 %	2.9 %	2.6 %	1.5 %	3.2 %	0.8 %	4.2 %	3.4 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	63.388 ppb	62.224 ppb	59.101 ppb	60.360 ppb	93.998 %	60.384 ppb	60.107 ppb	92.376 %	56.026 ppb
Concentration per Run 1	60.852 ppb	59.124 ppb	58.651 ppb	60.401 ppb	93.023 %	59.603 ppb	58.820 ppb	92.697 %	54.628 ppb
Concentration per Run 2	63.752 ppb	61.731 ppb	59.115 ppb	62.127 ppb	90.542 %	61.820 ppb	60.599 ppb	90.380 %	56.089 ppb
Concentration per Run 3	65.560 ppb	65.818 ppb	59.537 ppb	58.553 ppb	98.430 %	59.730 ppb	60.902 ppb	94.050 %	57.362 ppb
Recovery Percentage 1	105.647 %	103.707 %	98.502 %	100.601 %		100.640 %	100.178 %		93.377 %
Concentration RSD	3.7 %	5.4 %	0.7 %	3.0 %	4.3 %	2.1 %	1.9 %	2.0 %	2.4 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	59.067 ppb	88.998 %	87.414 %	60.361 ppb	61.129 ppb	103.261 %
Concentration per Run 1	56.909 ppb	88.805 %	86.181 %	59.579 ppb	60.664 ppb	102.367 %
Concentration per Run 2	58.859 ppb	88.353 %	87.153 %	61.386 ppb	62.341 ppb	102.195 %
Concentration per Run 3	61.433 ppb	89.836 %	88.908 %	60.119 ppb	60.381 ppb	105.222 %
Recovery Percentage 1	98.445 %			100.602 %	101.881 %	
Concentration RSD	3.8 %	0.9 %	1.6 %	1.5 %	1.7 %	1.6 %

Alpha ICPMSQ2 Data with SRD

3/5/2024 9:03:09 PM

Analysis index:	49	User name	ALPHALAB\a2-icpmsq2	Comment	<Comment>
Analysis label:	CCB	Rack	0		
Analysis started at:	3/5/2024 9:35:05 AM	Vial	10		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	88.586 %	93.414 %	0.006 ppb	-5.790 ppb	-0.782 ppb	-1.084 ppb	-1.716 ppb	-4.110 ppb	85.908 %
Concentration per Run 1	88.502 %	96.011 %	0.006 ppb	-8.570 ppb	-1.015 ppb	-1.251 ppb	3.248 ppb	-1.080 ppb	85.421 %
Concentration per Run 2	89.125 %	95.176 %	0.006 ppb	-5.316 ppb	-1.010 ppb	-1.151 ppb	0.772 ppb	-5.602 ppb	87.667 %
Concentration per Run 3	88.131 %	89.054 %	0.006 ppb	-3.484 ppb	-0.321 ppb	-0.851 ppb	-9.169 ppb	-5.648 ppb	84.637 %
Recovery Percentage 1			1.260 %	-5.790 %	-1.117 %	-10.843 %	-1.716 %	-4.110 %	
Concentration RSD	0.6 %	4.1 %	1.2 %	44.5 %	51.0 %	19.2 %	382.9 %	63.8 %	1.8 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.008 ppb	-0.026 ppb	-0.032 ppb	6.907 ppb	-0.005 ppb	0.038 ppb	0.005 ppb	0.078 ppb	87.527 %
Concentration per Run 1	-0.030 ppb	-0.036 ppb	-0.054 ppb	5.285 ppb	-0.007 ppb	0.080 ppb	-0.008 ppb	0.042 ppb	88.948 %
Concentration per Run 2	0.020 ppb	-0.016 ppb	-0.009 ppb	5.514 ppb	-0.007 ppb	-0.004 ppb	0.013 ppb	0.094 ppb	84.803 %
Concentration per Run 3	-0.013 ppb	-0.026 ppb	-0.032 ppb	9.924 ppb	-0.002 ppb	0.038 ppb	0.011 ppb	0.099 ppb	88.829 %
Recovery Percentage 1	-0.152 %	-2.598 %	-3.167 %	13.815 %	-1.012 %	1.911 %	0.530 %	1.566 %	
Concentration RSD	339.3 %	38.6 %	71.8 %	37.9 %	50.2 %	109.4 %	223.5 %	40.4 %	2.7 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.646 ppb	0.039 ppb	0.002 ppb	0.112 ppb	87.308 %	0.002 ppb	0.001 ppb	85.981 %	0.053 ppb
Concentration per Run 1	0.522 ppb	0.037 ppb	0.001 ppb	0.084 ppb	89.823 %	0.004 ppb	0.006 ppb	87.663 %	0.062 ppb
Concentration per Run 2	0.600 ppb	0.076 ppb	0.000 ppb	0.100 ppb	85.108 %	0.002 ppb	-0.001 ppb	81.246 %	0.037 ppb
Concentration per Run 3	0.815 ppb	0.002 ppb	0.004 ppb	0.151 ppb	86.992 %	0.000 ppb	-0.001 ppb	89.033 %	0.061 ppb
Recovery Percentage 1	129.145 %	0.772 %	0.017 %	5.578 %		0.412 %	0.647 %		1.331 %
Concentration RSD	23.6 %	95.3 %	139.6 %	31.2 %	2.7 %	125.1 %	299.7 %	4.8 %	26.3 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.004 ppb	87.918 %	87.192 %	0.251 ppb	-0.006 ppb	94.465 %
Concentration per Run 1	0.003 ppb	89.400 %	88.731 %	0.204 ppb	-0.007 ppb	94.506 %
Concentration per Run 2	0.035 ppb	85.200 %	84.103 %	0.300 ppb	-0.004 ppb	92.896 %
Concentration per Run 3	-0.026 ppb	89.155 %	88.743 %	0.250 ppb	-0.007 ppb	95.993 %
Recovery Percentage 1	0.771 %			25.145 %	-0.591 %	
Concentration RSD	793.0 %	2.7 %	3.1 %	19.3 %	22.8 %	1.6 %

Alpha ICPMSQ2 Data with SRD

3/5/2024 9:03:09 PM

Analysis index:	50	User name	ALPHALAB\a2-icpmsq2	Comment	<Comment>
Analysis label:	WG1891910-2d20 6020TL	Rack	1		
Analysis started at:	3/5/2024 9:46:47 AM	Vial	2		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	93.413 %	107.143 %	2.875 ppb	460.741 ppb	450.802 ppb	97.903 ppb	452.075 ppb	431.058 ppb	90.424 %
Concentration per Run 1	93.400 %	107.143 %	2.863 ppb	457.385 ppb	444.854 ppb	99.386 ppb	447.763 ppb	412.142 ppb	89.323 %
Concentration per Run 2	93.390 %	107.421 %	2.813 ppb	458.377 ppb	450.743 ppb	95.547 ppb	479.168 ppb	446.700 ppb	91.007 %
Concentration per Run 3	93.449 %	106.865 %	2.948 ppb	466.462 ppb	456.808 ppb	98.776 ppb	429.296 ppb	434.332 ppb	90.943 %
Concentration RSD	0.0 %	0.3 %	2.4 %	1.1 %	1.3 %	2.1 %	5.6 %	4.1 %	1.1 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	24.721 ppb	10.168 ppb	24.974 ppb	53.341 ppb	25.653 ppb	26.155 ppb	13.379 ppb	26.410 ppb	96.644 %
Concentration per Run 1	25.304 ppb	10.190 ppb	25.561 ppb	58.056 ppb	25.535 ppb	25.560 ppb	13.582 ppb	26.523 ppb	96.643 %
Concentration per Run 2	25.582 ppb	10.266 ppb	24.655 ppb	56.477 ppb	26.404 ppb	27.206 ppb	12.983 ppb	26.577 ppb	94.252 %
Concentration per Run 3	23.277 ppb	10.048 ppb	24.706 ppb	45.491 ppb	25.019 ppb	25.700 ppb	13.572 ppb	26.131 ppb	99.038 %
Concentration RSD	5.1 %	1.1 %	2.0 %	12.8 %	2.7 %	3.5 %	2.6 %	0.9 %	2.5 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	6.391 ppb	6.336 ppb	47.936 ppb	49.693 ppb	94.044 %	2.566 ppb	2.754 ppb	92.984 %	20.309 ppb
Concentration per Run 1	6.395 ppb	5.846 ppb	47.737 ppb	49.494 ppb	92.997 %	2.598 ppb	2.682 ppb	91.026 %	19.834 ppb
Concentration per Run 2	6.480 ppb	6.724 ppb	48.199 ppb	50.159 ppb	94.711 %	2.519 ppb	2.724 ppb	94.598 %	21.036 ppb
Concentration per Run 3	6.300 ppb	6.437 ppb	47.872 ppb	49.427 ppb	94.423 %	2.580 ppb	2.856 ppb	93.327 %	20.058 ppb
Concentration RSD	1.4 %	7.1 %	0.5 %	0.8 %	1.0 %	1.6 %	3.3 %	1.9 %	3.1 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	97.556 ppb	93.685 %	92.774 %	5.898 ppb	26.669 ppb	105.011 %
Concentration per Run 1	97.155 ppb	93.433 %	91.414 %	5.854 ppb	26.530 ppb	104.068 %
Concentration per Run 2	95.261 ppb	92.858 %	93.061 %	5.858 ppb	26.564 ppb	105.542 %
Concentration per Run 3	100.253 ppb	94.763 %	93.848 %	5.983 ppb	26.914 ppb	105.423 %
Concentration RSD	2.6 %	1.0 %	1.3 %	1.3 %	0.8 %	0.8 %

Alpha ICPMSQ2 Data with SRD

3/5/2024 9:03:09 PM

Analysis index:	51	User name	ALPHALAB\a2-icpmsq2	Comment	<Comment>
Analysis label:	CCV	Rack	0		
Analysis started at:	3/5/2024 9:52:12 AM	Vial	9		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	92.213 %	102.319 %	63.945 ppb	5,822.534 ppb	5,911.219 ppb	61.156 ppb	5,792.657 ppb	6,011.852 ppb	88.440 %
Concentration per Run 1	92.398 %	97.403 %	64.343 ppb	6,222.286 ppb	6,351.538 ppb	67.664 ppb	6,256.702 ppb	6,601.285 ppb	90.173 %
Concentration per Run 2	92.505 %	104.360 %	63.962 ppb	5,557.584 ppb	5,636.174 ppb	59.036 ppb	5,564.138 ppb	5,752.971 ppb	87.771 %
Concentration per Run 3	91.735 %	105.195 %	63.532 ppb	5,687.733 ppb	5,745.946 ppb	56.769 ppb	5,557.132 ppb	5,681.300 ppb	87.376 %
Recovery Percentage 1			106.576 %	97.042 %	98.520 %	101.927 %	96.544 %	100.198 %	
Concentration RSD	0.5 %	4.2 %	0.6 %	6.0 %	6.5 %	9.4 %	6.9 %	8.5 %	1.7 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	61.193 ppb	61.465 ppb	61.798 ppb	6,183.579 ppb	63.207 ppb	64.052 ppb	64.022 ppb	64.820 ppb	94.495 %
Concentration per Run 1	63.410 ppb	64.474 ppb	65.263 ppb	6,463.115 ppb	64.915 ppb	65.959 ppb	65.298 ppb	65.144 ppb	94.548 %
Concentration per Run 2	60.247 ppb	60.250 ppb	60.625 ppb	6,013.100 ppb	62.882 ppb	61.475 ppb	63.424 ppb	64.327 ppb	94.376 %
Concentration per Run 3	59.924 ppb	59.670 ppb	59.507 ppb	6,074.521 ppb	61.824 ppb	64.722 ppb	63.345 ppb	64.990 ppb	94.560 %
Recovery Percentage 1	101.989 %	102.441 %	102.997 %	103.060 %	105.345 %	106.753 %	106.704 %	108.034 %	
Concentration RSD	3.1 %	4.3 %	4.9 %	3.9 %	2.5 %	3.6 %	1.7 %	0.7 %	0.1 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	62.680 ppb	62.224 ppb	61.122 ppb	62.852 ppb	92.974 %	61.040 ppb	61.208 ppb	91.985 %	56.870 ppb
Concentration per Run 1	63.010 ppb	64.153 ppb	66.124 ppb	64.262 ppb	93.414 %	60.472 ppb	60.417 ppb	95.944 %	57.179 ppb
Concentration per Run 2	61.792 ppb	62.125 ppb	59.867 ppb	61.444 ppb	93.784 %	61.310 ppb	62.186 ppb	91.013 %	56.989 ppb
Concentration per Run 3	63.238 ppb	60.395 ppb	57.376 ppb	62.850 ppb	91.725 %	61.337 ppb	61.021 ppb	88.998 %	56.443 ppb
Recovery Percentage 1	104.467 %	103.707 %	101.871 %	104.754 %		101.733 %	102.013 %		94.784 %
Concentration RSD	1.2 %	3.0 %	7.4 %	2.2 %	1.2 %	0.8 %	1.5 %	3.9 %	0.7 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	59.940 ppb	86.152 %	86.486 %	61.500 ppb	62.618 ppb	100.953 %
Concentration per Run 1	59.669 ppb	84.929 %	87.822 %	61.167 ppb	62.207 ppb	100.612 %
Concentration per Run 2	61.943 ppb	87.785 %	86.165 %	61.221 ppb	62.154 ppb	102.195 %
Concentration per Run 3	58.209 ppb	85.741 %	85.469 %	62.112 ppb	63.492 ppb	100.052 %
Recovery Percentage 1	99.901 %			102.500 %	104.363 %	
Concentration RSD	3.1 %	1.7 %	1.4 %	0.9 %	1.2 %	1.1 %

Alpha ICPMSQ2 Data with SRD

3/5/2024 9:03:09 PM

Analysis index:	52	User name	ALPHALAB\a2-icpmsq2	Comment	<Comment>
Analysis label:	CCB	Rack	0		
Analysis started at:	3/5/2024 9:57:58 AM	Vial	10		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	86.412 %	87.013 %	0.002 ppb	-4.250 ppb	-0.634 ppb	-1.075 ppb	0.798 ppb	-0.289 ppb	81.094 %
Concentration per Run 1	86.737 %	89.332 %	0.002 ppb	-3.760 ppb	0.055 ppb	-1.114 ppb	2.216 ppb	7.338 ppb	81.105 %
Concentration per Run 2	86.346 %	85.992 %	0.003 ppb	-4.221 ppb	-0.622 ppb	-1.498 ppb	0.415 ppb	-7.890 ppb	80.920 %
Concentration per Run 3	86.153 %	85.714 %	0.001 ppb	-4.769 ppb	-1.335 ppb	-0.612 ppb	-0.236 ppb	-0.314 ppb	81.256 %
Recovery Percentage 1			0.389 %	-4.250 %	-0.906 %	-10.746 %	0.798 %	-0.289 %	
Concentration RSD	0.3 %	2.3 %	68.3 %	11.9 %	109.6 %	41.3 %	159.1 %	2,638.4 %	0.2 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.027 ppb	-0.015 ppb	-0.034 ppb	4.432 ppb	0.001 ppb	0.035 ppb	0.005 ppb	0.079 ppb	80.542 %
Concentration per Run 1	-0.062 ppb	-0.017 ppb	-0.002 ppb	4.630 ppb	0.003 ppb	0.083 ppb	0.006 ppb	0.011 ppb	78.771 %
Concentration per Run 2	-0.027 ppb	-0.021 ppb	-0.073 ppb	4.178 ppb	-0.002 ppb	0.031 ppb	-0.005 ppb	0.108 ppb	79.954 %
Concentration per Run 3	0.007 ppb	-0.008 ppb	-0.028 ppb	4.489 ppb	0.003 ppb	-0.010 ppb	0.015 ppb	0.119 ppb	82.901 %
Recovery Percentage 1	-0.543 %	-1.537 %	-3.443 %	8.864 %	0.282 %	1.727 %	0.513 %	1.588 %	
Concentration RSD	128.3 %	44.3 %	103.9 %	5.2 %	192.5 %	136.2 %	192.4 %	74.5 %	2.6 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.217 ppb	0.075 ppb	-0.008 ppb	0.059 ppb	78.416 %	0.002 ppb	-0.001 ppb	77.874 %	0.108 ppb
Concentration per Run 1	0.208 ppb	0.029 ppb	-0.004 ppb	0.012 ppb	74.782 %	0.002 ppb	-0.001 ppb	73.915 %	0.076 ppb
Concentration per Run 2	0.220 ppb	0.146 ppb	-0.010 ppb	0.095 ppb	78.637 %	0.003 ppb	-0.001 ppb	77.844 %	0.102 ppb
Concentration per Run 3	0.224 ppb	0.051 ppb	-0.011 ppb	0.069 ppb	81.829 %	0.000 ppb	-0.001 ppb	81.863 %	0.146 ppb
Recovery Percentage 1	43.444 %	1.505 %	-0.083 %	2.945 %		0.414 %	-0.472 %		2.703 %
Concentration RSD	3.7 %	82.6 %	45.8 %	72.0 %	4.5 %	111.5 %	0.0 %	5.1 %	32.7 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	-0.004 ppb	77.903 %	78.646 %	0.147 ppb	-0.011 ppb	85.652 %
Concentration per Run 1	-0.009 ppb	74.222 %	75.291 %	0.094 ppb	-0.011 ppb	81.231 %
Concentration per Run 2	0.007 ppb	76.849 %	78.041 %	0.170 ppb	-0.011 ppb	85.832 %
Concentration per Run 3	-0.011 ppb	82.639 %	82.604 %	0.176 ppb	-0.011 ppb	89.893 %
Recovery Percentage 1	-0.851 %			14.660 %	-1.087 %	
Concentration RSD	225.6 %	5.5 %	4.7 %	31.1 %	2.8 %	5.1 %

Alpha ICPMSQ2 Data with SRD

3/5/2024 9:03:09 PM

Analysis index:	53	User name	ALPHALAB\a2-icpmsq2	Comment	<Comment>
Analysis label:	WG1891173-1 6020TL	Rack	1		
Analysis started at:	3/5/2024 10:06:27 AM	Vial	39		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	86.822 %	94.527 %	0.006 ppb	-6.841 ppb	1.253 ppb	0.523 ppb	2.314 ppb	4.839 ppb	79.863 %
Concentration per Run 1	89.466 %	93.228 %	0.005 ppb	-8.081 ppb	1.909 ppb	-0.070 ppb	5.590 ppb	5.804 ppb	85.220 %
Concentration per Run 2	81.987 %	87.941 %	0.007 ppb	-6.118 ppb	1.063 ppb	0.878 ppb	2.775 ppb	-3.265 ppb	71.591 %
Concentration per Run 3	89.013 %	102.412 %	0.006 ppb	-6.325 ppb	0.786 ppb	0.761 ppb	-1.425 ppb	11.979 ppb	82.778 %
Concentration RSD	4.8 %	7.7 %	23.2 %	15.8 %	46.7 %	98.9 %	152.6 %	158.4 %	9.1 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.026 ppb	-0.004 ppb	0.031 ppb	2.453 ppb	-0.005 ppb	-0.040 ppb	0.042 ppb	0.295 ppb	89.657 %
Concentration per Run 1	-0.046 ppb	-0.005 ppb	-0.013 ppb	3.231 ppb	-0.007 ppb	-0.047 ppb	0.048 ppb	0.276 ppb	91.195 %
Concentration per Run 2	-0.046 ppb	0.013 ppb	0.079 ppb	1.756 ppb	-0.002 ppb	-0.053 ppb	0.042 ppb	0.271 ppb	87.272 %
Concentration per Run 3	0.015 ppb	-0.020 ppb	0.026 ppb	2.374 ppb	-0.007 ppb	-0.019 ppb	0.038 ppb	0.338 ppb	90.505 %
Concentration RSD	137.3 %	390.4 %	149.3 %	30.2 %	51.3 %	45.2 %	11.8 %	12.6 %	2.3 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.150 ppb	-0.076 ppb	0.005 ppb	0.041 ppb	91.740 %	0.000 ppb	0.001 ppb	92.443 %	-0.043 ppb
Concentration per Run 1	0.134 ppb	-0.102 ppb	0.004 ppb	0.031 ppb	90.444 %	0.002 ppb	0.006 ppb	89.864 %	-0.033 ppb
Concentration per Run 2	0.152 ppb	-0.111 ppb	0.011 ppb	0.021 ppb	91.319 %	-0.002 ppb	-0.001 ppb	91.235 %	-0.040 ppb
Concentration per Run 3	0.165 ppb	-0.016 ppb	0.000 ppb	0.071 ppb	93.458 %	0.000 ppb	-0.001 ppb	96.230 %	-0.057 ppb
Concentration RSD	10.4 %	68.5 %	116.9 %	64.7 %	1.7 %	1,048.5 %	303.9 %	3.6 %	29.1 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.001 ppb	91.138 %	90.566 %	0.036 ppb	-0.006 ppb	101.124 %
Concentration per Run 1	-0.012 ppb	90.151 %	89.598 %	0.023 ppb	-0.006 ppb	101.436 %
Concentration per Run 2	-0.012 ppb	89.370 %	89.039 %	0.041 ppb	-0.007 ppb	98.156 %
Concentration per Run 3	0.027 ppb	93.892 %	93.060 %	0.044 ppb	-0.004 ppb	103.780 %
Concentration RSD	1,984.6 %	2.7 %	2.4 %	32.2 %	24.1 %	2.8 %

Alpha ICPMSQ2 Data with SRD

3/5/2024 9:03:09 PM

Analysis index:	54	User name	ALPHALAB\a2-icpmsq2	Comment	<Comment>
Analysis label:	WG1891173-2d10 6020TL	Rack	1		
Analysis started at:	3/5/2024 10:10:54 AM	Vial	40		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	90.465 %	94.249 %	5.435 ppb	982.959 ppb	960.101 ppb	204.365 ppb	951.954 ppb	892.213 ppb	82.799 %
Concentration per Run 1	90.426 %	97.959 %	5.490 ppb	941.762 ppb	933.327 ppb	201.315 ppb	903.824 ppb	800.520 ppb	83.282 %
Concentration per Run 2	90.435 %	94.341 %	5.383 ppb	978.559 ppb	933.951 ppb	196.222 ppb	929.945 ppb	915.620 ppb	83.565 %
Concentration per Run 3	90.535 %	90.445 %	5.432 ppb	1,028.556 ppb	1,013.026 ppb	215.557 ppb	1,022.094 ppb	960.501 ppb	81.551 %
Concentration RSD	0.1 %	4.0 %	1.0 %	4.4 %	4.8 %	4.9 %	6.5 %	9.2 %	1.3 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	51.152 ppb	19.745 ppb	51.538 ppb	109.668 ppb	51.236 ppb	53.649 ppb	26.344 ppb	52.508 ppb	87.740 %
Concentration per Run 1	51.047 ppb	19.308 ppb	48.552 ppb	98.807 ppb	49.636 ppb	52.982 ppb	24.630 ppb	51.486 ppb	88.039 %
Concentration per Run 2	50.677 ppb	19.442 ppb	51.407 ppb	116.933 ppb	51.083 ppb	52.296 ppb	26.956 ppb	52.691 ppb	88.846 %
Concentration per Run 3	51.733 ppb	20.485 ppb	54.655 ppb	113.265 ppb	52.990 ppb	55.670 ppb	27.446 ppb	53.348 ppb	86.334 %
Concentration RSD	1.0 %	3.3 %	5.9 %	8.7 %	3.3 %	3.3 %	5.7 %	1.8 %	1.5 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	12.178 ppb	12.620 ppb	94.085 ppb	98.088 ppb	85.294 %	5.078 ppb	5.338 ppb	84.018 %	40.194 ppb
Concentration per Run 1	11.778 ppb	12.514 ppb	94.751 ppb	97.068 ppb	84.856 %	5.123 ppb	5.172 ppb	83.215 %	39.898 ppb
Concentration per Run 2	12.586 ppb	12.442 ppb	90.327 ppb	94.068 ppb	83.842 %	5.050 ppb	5.528 ppb	82.875 %	38.518 ppb
Concentration per Run 3	12.171 ppb	12.903 ppb	97.177 ppb	103.129 ppb	87.183 %	5.061 ppb	5.315 ppb	85.962 %	42.166 ppb
Concentration RSD	3.3 %	2.0 %	3.7 %	4.7 %	2.0 %	0.8 %	3.4 %	2.0 %	4.6 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	193.699 ppb	83.383 %	81.959 %	11.923 ppb	53.677 ppb	93.575 %
Concentration per Run 1	196.767 ppb	81.182 %	79.883 %	11.828 ppb	53.465 ppb	92.437 %
Concentration per Run 2	190.099 ppb	82.892 %	81.314 %	11.822 ppb	53.138 ppb	93.548 %
Concentration per Run 3	194.231 ppb	86.075 %	84.680 %	12.118 ppb	54.426 ppb	94.741 %
Concentration RSD	1.7 %	3.0 %	3.0 %	1.4 %	1.2 %	1.2 %

Alpha ICPMSQ2 Data with SRD

3/5/2024 9:03:09 PM

Analysis index: 55
Analysis label: WG1891173-3d10 6020TL
Analysis started at: 3/5/2024 10:15:53 AM
User name ALPHALAB\a2-icpmsq2
Rack 1
Vial 42
Comment <Comment>

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	91.962 %	89.889 %	5.480 ppb	4,664.636 ppb	1,458.178 ppb	209.244 ppb	3,675.182 ppb	4,557.678 ppb	83.292 %
Concentration per Run 1	91.341 %	94.063 %	5.562 ppb	4,518.538 ppb	1,407.229 ppb	200.264 ppb	3,674.759 ppb	4,642.624 ppb	83.247 %
Concentration per Run 2	91.942 %	78.478 %	5.528 ppb	4,997.072 ppb	1,527.422 ppb	224.241 ppb	3,883.517 ppb	4,603.906 ppb	83.827 %
Concentration per Run 3	92.605 %	97.124 %	5.351 ppb	4,478.299 ppb	1,439.883 ppb	203.228 ppb	3,467.268 ppb	4,426.502 ppb	82.803 %
Concentration RSD	0.7 %	11.1 %	2.1 %	6.2 %	4.3 %	6.2 %	5.7 %	2.5 %	0.6 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	52.568 ppb	20.644 ppb	52.826 ppb	115.422 ppb	52.050 ppb	53.576 ppb	26.482 ppb	51.778 ppb	90.747 %
Concentration per Run 1	53.298 ppb	21.009 ppb	54.722 ppb	117.496 ppb	53.865 ppb	54.496 ppb	27.052 ppb	50.601 ppb	85.074 %
Concentration per Run 2	53.796 ppb	21.197 ppb	52.015 ppb	120.636 ppb	53.155 ppb	54.127 ppb	27.100 ppb	53.755 ppb	90.867 %
Concentration per Run 3	50.609 ppb	19.727 ppb	51.741 ppb	108.135 ppb	49.129 ppb	52.104 ppb	25.293 ppb	50.979 ppb	96.298 %
Concentration RSD	3.3 %	3.9 %	3.1 %	5.6 %	4.9 %	2.4 %	3.9 %	3.3 %	6.2 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	12.592 ppb	11.303 ppb	111.094 ppb	101.490 ppb	87.197 %	5.194 ppb	5.238 ppb	86.168 %	49.080 ppb
Concentration per Run 1	12.536 ppb	11.024 ppb	113.509 ppb	102.856 ppb	86.812 %	5.163 ppb	4.905 ppb	86.891 %	48.167 ppb
Concentration per Run 2	12.735 ppb	11.807 ppb	110.722 ppb	99.298 ppb	85.986 %	5.115 ppb	5.366 ppb	82.238 %	49.616 ppb
Concentration per Run 3	12.506 ppb	11.080 ppb	109.050 ppb	102.314 ppb	88.791 %	5.305 ppb	5.443 ppb	89.374 %	49.458 ppb
Concentration RSD	1.0 %	3.9 %	2.0 %	1.9 %	1.7 %	1.9 %	5.6 %	4.2 %	1.6 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	206.086 ppb	82.530 %	79.848 %	12.083 ppb	54.310 ppb	96.217 %
Concentration per Run 1	210.232 ppb	81.912 %	79.646 %	11.904 ppb	53.273 ppb	95.761 %
Concentration per Run 2	201.764 ppb	78.434 %	75.810 %	11.988 ppb	54.357 ppb	94.712 %
Concentration per Run 3	206.263 ppb	87.245 %	84.086 %	12.357 ppb	55.301 ppb	98.177 %
Concentration RSD	2.1 %	5.4 %	5.2 %	2.0 %	1.9 %	1.8 %

Alpha ICPMSQ2 Data with SRD

3/5/2024 9:03:09 PM

Analysis index:	56	User name	ALPHALAB\a2-icpmsq2	Comment	<Comment>
Analysis label:	WG1891173-4d10 6020TL	Rack	1		
Analysis started at:	3/5/2024 10:20:20 AM	Vial	43		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	92.691 %	96.382 %	5.144 ppb	4,058.073 ppb	1,246.842 ppb	188.398 ppb	3,326.908 ppb	4,048.137 ppb	83.575 %
Concentration per Run 1	92.116 %	93.506 %	5.152 ppb	3,920.250 ppb	1,221.458 ppb	185.437 ppb	3,271.005 ppb	3,890.078 ppb	84.076 %
Concentration per Run 2	92.660 %	99.629 %	5.224 ppb	3,987.630 ppb	1,217.894 ppb	182.554 ppb	3,284.423 ppb	4,128.097 ppb	83.707 %
Concentration per Run 3	93.296 %	96.011 %	5.057 ppb	4,266.338 ppb	1,301.175 ppb	197.204 ppb	3,425.296 ppb	4,126.237 ppb	82.942 %
Concentration RSD	0.6 %	3.2 %	1.6 %	4.5 %	3.8 %	4.1 %	2.6 %	3.4 %	0.7 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	48.044 ppb	19.227 ppb	48.471 ppb	109.440 ppb	48.283 ppb	49.652 ppb	25.278 ppb	50.235 ppb	87.585 %
Concentration per Run 1	47.006 ppb	19.040 ppb	48.097 ppb	110.522 ppb	48.085 ppb	49.642 ppb	26.067 ppb	49.159 ppb	84.687 %
Concentration per Run 2	48.356 ppb	19.152 ppb	48.269 ppb	111.864 ppb	47.979 ppb	49.321 ppb	24.931 ppb	51.290 ppb	85.585 %
Concentration per Run 3	48.770 ppb	19.488 ppb	49.045 ppb	105.934 ppb	48.784 ppb	49.993 ppb	24.835 ppb	50.257 ppb	92.484 %
Concentration RSD	1.9 %	1.2 %	1.0 %	2.8 %	0.9 %	0.7 %	2.7 %	2.1 %	4.9 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	11.865 ppb	11.270 ppb	101.796 ppb	92.797 ppb	86.724 %	4.729 ppb	5.038 ppb	83.939 %	46.276 ppb
Concentration per Run 1	12.192 ppb	10.937 ppb	102.022 ppb	92.508 ppb	81.897 %	4.606 ppb	4.874 ppb	80.047 %	46.000 ppb
Concentration per Run 2	11.608 ppb	11.365 ppb	98.283 ppb	92.386 ppb	86.770 %	4.723 ppb	5.299 ppb	82.360 %	46.175 ppb
Concentration per Run 3	11.793 ppb	11.508 ppb	105.083 ppb	93.495 ppb	91.506 %	4.857 ppb	4.943 ppb	89.409 %	46.654 ppb
Concentration RSD	2.5 %	2.6 %	3.3 %	0.7 %	5.5 %	2.7 %	4.5 %	5.8 %	0.7 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	194.075 ppb	80.280 %	78.410 %	11.349 ppb	50.788 ppb	94.264 %
Concentration per Run 1	196.221 ppb	74.909 %	74.356 %	11.323 ppb	50.272 ppb	88.822 %
Concentration per Run 2	192.491 ppb	80.108 %	76.540 %	11.366 ppb	51.140 ppb	93.487 %
Concentration per Run 3	193.513 ppb	85.824 %	84.334 %	11.357 ppb	50.952 ppb	100.482 %
Concentration RSD	1.0 %	6.8 %	6.7 %	0.2 %	0.9 %	6.2 %

Alpha ICPMSQ2 Data with SRD

3/5/2024 9:03:09 PM

Analysis index:	57	User name	ALPHALAB\a2-icpmsq2	Comment	<Comment>
Analysis label:	WG1891173-5d10 6020TL	Rack	1		
Analysis started at:	3/5/2024 10:24:48 AM	Vial	44		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	86.250 %	97.959 %	50.235 ppb	7,880.950 ppb	5,006.873 ppb	46.094 ppb	7,017.657 ppb	8,065.099 ppb	74.408 %
Concentration per Run 1	81.815 %	92.672 %	50.268 ppb	8,083.546 ppb	5,128.343 ppb	48.549 ppb	7,256.026 ppb	8,465.048 ppb	66.392 %
Concentration per Run 2	87.332 %	98.794 %	50.183 ppb	7,780.229 ppb	4,994.103 ppb	45.186 ppb	6,854.235 ppb	7,903.274 ppb	77.361 %
Concentration per Run 3	89.604 %	102.412 %	50.254 ppb	7,779.075 ppb	4,898.173 ppb	44.546 ppb	6,942.711 ppb	7,826.975 ppb	79.470 %
Concentration RSD	4.6 %	5.0 %	0.1 %	2.2 %	2.3 %	4.7 %	3.0 %	4.3 %	9.4 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	48.252 ppb	48.874 ppb	50.251 ppb	4,887.097 ppb	49.668 ppb	52.026 ppb	51.910 ppb	51.271 ppb	88.941 %
Concentration per Run 1	48.030 ppb	49.960 ppb	50.410 ppb	4,882.706 ppb	49.708 ppb	51.305 ppb	51.691 ppb	51.204 ppb	89.745 %
Concentration per Run 2	48.969 ppb	48.343 ppb	50.999 ppb	4,901.062 ppb	49.110 ppb	51.804 ppb	51.998 ppb	51.186 ppb	89.270 %
Concentration per Run 3	47.759 ppb	48.318 ppb	49.344 ppb	4,877.523 ppb	50.187 ppb	52.968 ppb	52.041 ppb	51.422 ppb	87.809 %
Concentration RSD	1.3 %	1.9 %	1.7 %	0.3 %	1.1 %	1.6 %	0.4 %	0.3 %	1.1 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	49.990 ppb	50.567 ppb	62.527 ppb	50.622 ppb	86.459 %	0.502 ppb	49.437 ppb	85.997 %	48.322 ppb
Concentration per Run 1	49.474 ppb	49.725 ppb	62.261 ppb	50.481 ppb	86.185 %	0.559 ppb	49.214 ppb	86.004 %	48.871 ppb
Concentration per Run 2	49.080 ppb	50.148 ppb	62.250 ppb	50.273 ppb	84.587 %	0.475 ppb	49.588 ppb	82.785 %	48.242 ppb
Concentration per Run 3	51.415 ppb	51.828 ppb	63.069 ppb	51.111 ppb	88.605 %	0.471 ppb	49.510 ppb	89.201 %	47.852 ppb
Concentration RSD	2.5 %	2.2 %	0.8 %	0.9 %	2.3 %	9.8 %	0.4 %	3.7 %	1.1 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	53.904 ppb	80.401 %	78.060 %	49.103 ppb	51.077 ppb	93.843 %
Concentration per Run 1	52.924 ppb	79.916 %	77.717 %	47.434 ppb	49.659 ppb	94.944 %
Concentration per Run 2	52.885 ppb	78.016 %	76.064 %	50.047 ppb	51.839 ppb	90.568 %
Concentration per Run 3	55.903 ppb	83.270 %	80.398 %	49.829 ppb	51.732 ppb	96.018 %
Concentration RSD	3.2 %	3.3 %	2.8 %	3.0 %	2.4 %	3.1 %

Alpha ICPMSQ2 Data with SRD

3/5/2024 9:03:09 PM

Analysis index:	58	User name	ALPHALAB\a2-icpmsq2	Comment	<Comment>
Analysis label:	WG1891173-6d5 6020TL	Rack	1		
Analysis started at:	3/5/2024 10:29:16 AM	Vial	45		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	91.108 %	90.352 %	0.005 ppb	6,646.107 ppb	790.740 ppb	1.885 ppb	4,911.457 ppb	6,834.869 ppb	80.883 %
Concentration per Run 1	91.147 %	95.455 %	0.000 ppb	6,496.473 ppb	765.039 ppb	2.212 ppb	4,740.463 ppb	6,678.348 ppb	80.774 %
Concentration per Run 2	90.824 %	88.219 %	0.005 ppb	6,844.797 ppb	827.908 ppb	2.174 ppb	5,140.400 ppb	7,100.060 ppb	81.219 %
Concentration per Run 3	91.353 %	87.384 %	0.010 ppb	6,597.049 ppb	779.275 ppb	1.270 ppb	4,853.508 ppb	6,726.199 ppb	80.656 %
Concentration RSD	0.3 %	4.9 %	95.2 %	2.7 %	4.2 %	28.3 %	4.2 %	3.4 %	0.4 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.052 ppb	0.953 ppb	2.604 ppb	14.876 ppb	0.050 ppb	0.765 ppb	0.603 ppb	0.297 ppb	89.487 %
Concentration per Run 1	0.001 ppb	0.898 ppb	2.628 ppb	13.069 ppb	0.032 ppb	0.650 ppb	0.703 ppb	0.269 ppb	91.403 %
Concentration per Run 2	0.085 ppb	0.997 ppb	2.839 ppb	14.792 ppb	0.059 ppb	0.978 ppb	0.502 ppb	0.340 ppb	89.547 %
Concentration per Run 3	0.071 ppb	0.965 ppb	2.346 ppb	16.768 ppb	0.060 ppb	0.667 ppb	0.603 ppb	0.282 ppb	87.512 %
Concentration RSD	86.4 %	5.3 %	9.5 %	12.4 %	32.4 %	24.1 %	16.6 %	12.7 %	2.2 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.236 ppb	0.188 ppb	24.468 ppb	0.291 ppb	88.136 %	0.000 ppb	0.000 ppb	87.807 %	0.011 ppb
Concentration per Run 1	0.192 ppb	0.200 ppb	23.998 ppb	0.256 ppb	86.979 %	0.002 ppb	-0.001 ppb	86.511 %	-0.010 ppb
Concentration per Run 2	0.295 ppb	0.150 ppb	24.695 ppb	0.298 ppb	88.324 %	0.000 ppb	-0.001 ppb	88.142 %	0.004 ppb
Concentration per Run 3	0.220 ppb	0.214 ppb	24.710 ppb	0.319 ppb	89.105 %	-0.002 ppb	0.002 ppb	88.767 %	0.039 ppb
Concentration RSD	22.5 %	17.7 %	1.7 %	10.9 %	1.2 %	1,415.5 %	1,147.1 %	1.3 %	221.9 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	12.180 ppb	82.727 %	80.987 %	0.330 ppb	0.004 ppb	94.025 %
Concentration per Run 1	12.898 ppb	81.210 %	79.675 %	0.267 ppb	0.006 ppb	93.808 %
Concentration per Run 2	11.074 ppb	82.610 %	80.291 %	0.401 ppb	0.009 ppb	95.717 %
Concentration per Run 3	12.568 ppb	84.361 %	82.997 %	0.323 ppb	-0.003 ppb	92.551 %
Concentration RSD	8.0 %	1.9 %	2.2 %	20.5 %	153.8 %	1.7 %

Alpha ICPMSQ2 Data with SRD

3/5/2024 9:03:09 PM

Analysis index:	59	User name	ALPHALAB\a2-icpmsq2	Comment	<Comment>
Analysis label:	L2410579-08 6020TL	Rack	1		
Analysis started at:	3/5/2024 10:33:44 AM	Vial	41		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	90.726 %	87.848 %	0.005 ppb	33,779.268 ppb	4,166.652 ppb	9.638 ppb	25,502.714 ppb	33,784.468 ppb	69.718 %
Concentration per Run 1	90.568 %	88.219 %	0.005 ppb	33,446.324 ppb	4,132.765 ppb	9.735 ppb	25,285.309 ppb	33,496.340 ppb	69.940 %
Concentration per Run 2	90.202 %	81.818 %	0.004 ppb	35,334.582 ppb	4,362.737 ppb	10.188 ppb	26,048.126 ppb	34,475.260 ppb	69.672 %
Concentration per Run 3	91.408 %	93.506 %	0.005 ppb	32,556.896 ppb	4,004.455 ppb	8.991 ppb	25,174.706 ppb	33,381.803 ppb	69.543 %
Concentration RSD	0.7 %	6.7 %	17.4 %	4.2 %	4.4 %	6.3 %	1.9 %	1.8 %	0.3 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.220 ppb	4.831 ppb	12.039 ppb	43.575 ppb	0.348 ppb	3.321 ppb	3.107 ppb	0.907 ppb	90.710 %
Concentration per Run 1	0.180 ppb	4.868 ppb	12.714 ppb	42.616 ppb	0.371 ppb	3.245 ppb	3.331 ppb	0.793 ppb	91.748 %
Concentration per Run 2	0.188 ppb	4.719 ppb	12.319 ppb	43.451 ppb	0.338 ppb	3.163 ppb	2.845 ppb	0.961 ppb	90.491 %
Concentration per Run 3	0.291 ppb	4.906 ppb	11.084 ppb	44.658 ppb	0.334 ppb	3.554 ppb	3.146 ppb	0.967 ppb	89.892 %
Concentration RSD	28.1 %	2.0 %	7.1 %	2.4 %	6.0 %	6.2 %	7.9 %	10.9 %	1.0 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.315 ppb	0.412 ppb	120.545 ppb	0.562 ppb	82.384 %	0.000 ppb	0.016 ppb	81.622 %	0.011 ppb
Concentration per Run 1	0.294 ppb	0.333 ppb	123.359 ppb	0.713 ppb	80.010 %	0.000 ppb	0.021 ppb	81.966 %	-0.013 ppb
Concentration per Run 2	0.313 ppb	0.550 ppb	121.313 ppb	0.417 ppb	84.189 %	0.000 ppb	0.017 ppb	83.940 %	0.014 ppb
Concentration per Run 3	0.339 ppb	0.352 ppb	116.961 ppb	0.555 ppb	82.952 %	0.001 ppb	0.010 ppb	78.959 %	0.032 ppb
Concentration RSD	7.2 %	29.2 %	2.7 %	26.4 %	2.6 %	2,594.8 %	34.2 %	3.1 %	201.5 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	66.211 ppb	68.510 %	66.794 %	0.331 ppb	0.026 ppb	87.405 %
Concentration per Run 1	64.835 ppb	66.227 %	65.211 %	0.299 ppb	0.024 ppb	85.361 %
Concentration per Run 2	64.958 ppb	69.039 %	66.477 %	0.344 ppb	0.029 ppb	87.935 %
Concentration per Run 3	68.839 ppb	70.263 %	68.695 %	0.349 ppb	0.024 ppb	88.918 %
Concentration RSD	3.4 %	3.0 %	2.6 %	8.4 %	10.9 %	2.1 %

Alpha ICPMSQ2 Data with SRD

3/5/2024 9:03:09 PM

Analysis index:	60	User name	ALPHALAB\a2-icpmsq2	Comment	<Comment>
Analysis label:	L2410507-01 6020TL	Rack	1		
Analysis started at:	3/5/2024 10:38:11 AM	Vial	46		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	89.642 %	99.165 %	0.007 ppb	24,657.050 ppb	13,475.029 ppb	1.417 ppb	3,752.275 ppb	41,682.511 ppb	67.547 %
Concentration per Run 1	86.837 %	104.082 %	0.010 ppb	24,842.548 ppb	13,873.039 ppb	1.699 ppb	3,961.314 ppb	44,333.103 ppb	63.998 %
Concentration per Run 2	91.244 %	96.289 %	0.006 ppb	25,828.891 ppb	14,132.855 ppb	1.498 ppb	3,786.292 ppb	42,093.329 ppb	69.302 %
Concentration per Run 3	90.846 %	97.124 %	0.005 ppb	23,299.710 ppb	12,419.191 ppb	1.054 ppb	3,509.219 ppb	38,621.101 ppb	69.341 %
Concentration RSD	2.7 %	4.3 %	36.5 %	5.2 %	6.9 %	23.3 %	6.1 %	6.9 %	4.6 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.040 ppb	0.035 ppb	0.458 ppb	3.167 ppb	0.031 ppb	1.341 ppb	0.479 ppb	3.942 ppb	87.422 %
Concentration per Run 1	0.058 ppb	0.041 ppb	0.518 ppb	2.647 ppb	0.022 ppb	1.325 ppb	0.504 ppb	3.957 ppb	94.248 %
Concentration per Run 2	-0.015 ppb	0.048 ppb	0.491 ppb	3.640 ppb	0.053 ppb	1.305 ppb	0.523 ppb	4.259 ppb	89.846 %
Concentration per Run 3	0.076 ppb	0.016 ppb	0.364 ppb	3.212 ppb	0.017 ppb	1.392 ppb	0.411 ppb	3.608 ppb	78.173 %
Concentration RSD	120.9 %	48.5 %	17.9 %	15.7 %	63.9 %	3.4 %	12.5 %	8.3 %	9.5 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	6.845 ppb	-0.022 ppb	212.110 ppb	5.749 ppb	82.325 %	0.000 ppb	0.001 ppb	83.903 %	4.207 ppb
Concentration per Run 1	7.311 ppb	0.022 ppb	221.323 ppb	5.618 ppb	85.027 %	0.002 ppb	0.002 ppb	89.624 %	4.224 ppb
Concentration per Run 2	6.573 ppb	-0.067 ppb	208.750 ppb	5.872 ppb	85.019 %	0.001 ppb	0.003 ppb	86.514 %	4.142 ppb
Concentration per Run 3	6.651 ppb	-0.022 ppb	206.256 ppb	5.756 ppb	76.930 %	-0.002 ppb	-0.001 ppb	75.570 %	4.254 ppb
Concentration RSD	5.9 %	199.8 %	3.8 %	2.2 %	5.7 %	629.2 %	148.3 %	8.8 %	1.4 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	29.292 ppb	69.239 %	67.962 %	0.080 ppb	0.103 ppb	86.331 %
Concentration per Run 1	29.031 ppb	71.470 %	71.380 %	0.055 ppb	0.104 ppb	90.852 %
Concentration per Run 2	28.738 ppb	71.607 %	69.847 %	0.098 ppb	0.106 ppb	88.710 %
Concentration per Run 3	30.107 ppb	64.642 %	62.658 %	0.089 ppb	0.098 ppb	79.432 %
Concentration RSD	2.5 %	5.8 %	6.9 %	28.3 %	3.9 %	7.0 %

Alpha ICPMSQ2 Data with SRD

3/5/2024 9:03:09 PM

Analysis index:	61	User name	ALPHALAB\a2-icpmsq2	Comment	<Comment>
Analysis label:	L2410507-03 6020TL	Rack	1		
Analysis started at:	3/5/2024 10:42:40 AM	Vial	47		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	92.028 %	97.774 %	0.005 ppb	25,823.861 ppb	14,119.730 ppb	0.898 ppb	3,970.938 ppb	43,509.878 ppb	67.818 %
Concentration per Run 1	92.189 %	100.742 %	0.003 ppb	26,286.483 ppb	14,323.837 ppb	1.227 ppb	4,251.151 ppb	45,456.373 ppb	68.031 %
Concentration per Run 2	91.018 %	93.506 %	0.001 ppb	26,456.293 ppb	14,541.298 ppb	0.802 ppb	3,925.701 ppb	44,386.559 ppb	67.637 %
Concentration per Run 3	92.876 %	99.072 %	0.011 ppb	24,728.806 ppb	13,494.055 ppb	0.667 ppb	3,735.961 ppb	40,686.702 ppb	67.785 %
Concentration RSD	1.0 %	3.9 %	99.7 %	3.7 %	3.9 %	32.5 %	6.6 %	5.8 %	0.3 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.174 ppb	0.094 ppb	133.531 ppb	28.438 ppb	1.245 ppb	3.523 ppb	1.222 ppb	3.841 ppb	86.983 %
Concentration per Run 1	0.172 ppb	0.095 ppb	135.984 ppb	31.221 ppb	1.241 ppb	3.134 ppb	1.201 ppb	3.793 ppb	89.667 %
Concentration per Run 2	0.156 ppb	0.084 ppb	134.981 ppb	23.422 ppb	1.324 ppb	3.516 ppb	1.191 ppb	3.866 ppb	83.546 %
Concentration per Run 3	0.193 ppb	0.103 ppb	129.627 ppb	30.671 ppb	1.171 ppb	3.919 ppb	1.275 ppb	3.865 ppb	87.737 %
Concentration RSD	10.6 %	10.0 %	2.6 %	15.3 %	6.1 %	11.1 %	3.8 %	1.1 %	3.6 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	9.384 ppb	0.045 ppb	223.316 ppb	8.444 ppb	80.629 %	0.002 ppb	0.003 ppb	80.940 %	4.486 ppb
Concentration per Run 1	9.657 ppb	-0.105 ppb	235.685 ppb	8.552 ppb	80.891 %	0.002 ppb	0.003 ppb	83.755 %	4.406 ppb
Concentration per Run 2	9.600 ppb	0.220 ppb	218.497 ppb	9.046 ppb	80.971 %	0.004 ppb	0.003 ppb	82.022 %	4.612 ppb
Concentration per Run 3	8.895 ppb	0.019 ppb	215.764 ppb	7.732 ppb	80.024 %	0.000 ppb	0.003 ppb	77.043 %	4.441 ppb
Concentration RSD	4.5 %	366.4 %	4.8 %	7.9 %	0.7 %	119.7 %	4.2 %	4.3 %	2.5 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	31.345 ppb	68.270 %	66.888 %	0.071 ppb	0.312 ppb	85.919 %
Concentration per Run 1	33.290 ppb	70.014 %	68.780 %	0.049 ppb	0.313 ppb	86.739 %
Concentration per Run 2	30.525 ppb	68.661 %	66.918 %	0.078 ppb	0.319 ppb	87.107 %
Concentration per Run 3	30.221 ppb	66.134 %	64.965 %	0.087 ppb	0.305 ppb	83.911 %
Concentration RSD	5.4 %	2.9 %	2.9 %	28.1 %	2.3 %	2.0 %

Alpha ICPMSQ2 Data with SRD

3/5/2024 9:03:09 PM

Analysis index: 62 User name ALPHALAB\a2-icpmsq2 Comment <Comment>
Analysis label: L2410579-01 6020TL Rack 1
Analysis started at: 3/5/2024 10:47:09 AM Vial 48

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	96.694 %	101.763 %	0.005 ppb	35,980.994 ppb	494.720 ppb	36.424 ppb	15,623.456 ppb	67,320.781 ppb	69.363 %
Concentration per Run 1	95.021 %	95.454 %	0.010 ppb	37,781.295 ppb	509.665 ppb	38.380 ppb	16,791.782 ppb	72,901.590 ppb	68.955 %
Concentration per Run 2	97.436 %	96.846 %	0.005 ppb	37,082.233 ppb	505.644 ppb	37.312 ppb	15,491.027 ppb	67,250.260 ppb	69.058 %
Concentration per Run 3	97.625 %	112.987 %	0.002 ppb	33,079.453 ppb	468.851 ppb	33.580 ppb	14,587.561 ppb	61,810.494 ppb	70.078 %
Concentration RSD	1.5 %	9.6 %	69.3 %	7.1 %	4.5 %	6.9 %	7.1 %	8.2 %	0.9 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	5.134 ppb	0.326 ppb	463.430 ppb	646.394 ppb	0.506 ppb	2.489 ppb	0.628 ppb	0.302 ppb	97.436 %
Concentration per Run 1	5.527 ppb	0.330 ppb	493.641 ppb	678.658 ppb	0.545 ppb	2.411 ppb	0.590 ppb	0.335 ppb	94.682 %
Concentration per Run 2	4.972 ppb	0.365 ppb	460.543 ppb	626.019 ppb	0.477 ppb	2.720 ppb	0.738 ppb	0.271 ppb	97.929 %
Concentration per Run 3	4.904 ppb	0.283 ppb	436.107 ppb	634.505 ppb	0.496 ppb	2.337 ppb	0.557 ppb	0.301 ppb	99.697 %
Concentration RSD	6.7 %	12.7 %	6.2 %	4.4 %	6.9 %	8.2 %	15.3 %	10.6 %	2.6 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	4.484 ppb	0.498 ppb	629.101 ppb	33.590 ppb	91.622 %	-0.001 ppb	0.009 ppb	93.065 %	0.281 ppb
Concentration per Run 1	4.747 ppb	0.660 ppb	659.154 ppb	33.392 ppb	92.056 %	-0.002 ppb	0.005 ppb	96.261 %	0.218 ppb
Concentration per Run 2	4.300 ppb	0.309 ppb	615.755 ppb	32.983 ppb	90.947 %	0.000 ppb	0.022 ppb	91.986 %	0.335 ppb
Concentration per Run 3	4.403 ppb	0.523 ppb	612.393 ppb	34.395 ppb	91.865 %	-0.001 ppb	-0.001 ppb	90.948 %	0.289 ppb
Concentration RSD	5.2 %	35.6 %	4.1 %	2.2 %	0.6 %	195.8 %	134.6 %	3.0 %	20.9 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	14.837 ppb	72.651 %	70.684 %	0.037 ppb	0.016 ppb	99.248 %
Concentration per Run 1	14.319 ppb	74.171 %	71.814 %	0.024 ppb	0.012 ppb	100.213 %
Concentration per Run 2	15.141 ppb	71.390 %	69.338 %	0.038 ppb	0.021 ppb	98.410 %
Concentration per Run 3	15.051 ppb	72.390 %	70.900 %	0.048 ppb	0.015 ppb	99.120 %
Concentration RSD	3.0 %	1.9 %	1.8 %	32.9 %	29.8 %	0.9 %

Alpha ICPMSQ2 Data with SRD

3/5/2024 9:03:09 PM

Analysis index: 63 User name ALPHALAB\a2-icpmsq2 Comment <Comment>
Analysis label: CCV Rack 0
Analysis started at: 3/5/2024 10:51:38 AM Vial 9

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	92.676 %	96.660 %	61.279 ppb	5,775.989 ppb	5,789.399 ppb	58.232 ppb	5,436.889 ppb	5,716.317 ppb	84.106 %
Concentration per Run 1	91.720 %	99.629 %	61.636 ppb	5,509.622 ppb	5,569.159 ppb	54.701 ppb	5,263.969 ppb	5,583.155 ppb	84.025 %
Concentration per Run 2	93.518 %	97.124 %	61.114 ppb	5,912.445 ppb	6,039.503 ppb	59.958 ppb	5,516.902 ppb	5,856.859 ppb	84.943 %
Concentration per Run 3	92.791 %	93.228 %	61.087 ppb	5,905.902 ppb	5,759.533 ppb	60.037 ppb	5,529.798 ppb	5,708.938 ppb	83.350 %
Recovery Percentage 1			102.131 %	96.266 %	96.490 %	97.053 %	90.615 %	95.272 %	
Concentration RSD	1.0 %	3.3 %	0.5 %	4.0 %	4.1 %	5.3 %	2.8 %	2.4 %	1.0 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	59.104 ppb	59.507 ppb	59.389 ppb	6,078.256 ppb	62.337 ppb	61.848 ppb	62.638 ppb	61.506 ppb	87.121 %
Concentration per Run 1	57.604 ppb	59.386 ppb	57.821 ppb	6,165.646 ppb	63.312 ppb	61.497 ppb	62.436 ppb	59.912 ppb	87.404 %
Concentration per Run 2	62.205 ppb	62.048 ppb	62.108 ppb	6,161.998 ppb	63.256 ppb	63.600 ppb	63.883 ppb	64.680 ppb	83.688 %
Concentration per Run 3	57.502 ppb	57.089 ppb	58.238 ppb	5,907.122 ppb	60.441 ppb	60.446 ppb	61.593 ppb	59.927 ppb	90.270 %
Recovery Percentage 1	98.506 %	99.179 %	98.981 %	101.304 %	103.894 %	103.080 %	104.396 %	102.510 %	
Concentration RSD	4.5 %	4.2 %	4.0 %	2.4 %	2.6 %	2.6 %	1.8 %	4.5 %	3.8 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	61.618 ppb	60.399 ppb	58.033 ppb	59.078 ppb	85.616 %	60.743 ppb	61.062 ppb	82.781 %	57.195 ppb
Concentration per Run 1	60.463 ppb	59.988 ppb	57.711 ppb	59.269 ppb	84.155 %	60.294 ppb	61.132 ppb	81.038 %	57.402 ppb
Concentration per Run 2	64.466 ppb	62.357 ppb	59.188 ppb	60.758 ppb	86.925 %	60.133 ppb	60.884 ppb	84.324 %	56.963 ppb
Concentration per Run 3	59.925 ppb	58.853 ppb	57.200 ppb	57.207 ppb	85.769 %	61.804 ppb	61.171 ppb	82.982 %	57.222 ppb
Recovery Percentage 1	102.696 %	100.666 %	96.722 %	98.463 %		101.239 %	101.771 %		95.326 %
Concentration RSD	4.0 %	3.0 %	1.8 %	3.0 %	1.6 %	1.5 %	0.3 %	2.0 %	0.4 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	59.049 ppb	80.053 %	78.105 %	61.305 ppb	62.081 ppb	91.217 %
Concentration per Run 1	61.711 ppb	78.384 %	77.115 %	60.936 ppb	62.091 ppb	89.404 %
Concentration per Run 2	55.113 ppb	81.200 %	79.030 %	60.588 ppb	62.006 ppb	92.056 %
Concentration per Run 3	60.322 ppb	80.574 %	78.171 %	62.389 ppb	62.147 ppb	92.190 %
Recovery Percentage 1	98.414 %			102.174 %	103.469 %	
Concentration RSD	5.9 %	1.8 %	1.2 %	1.6 %	0.1 %	1.7 %

Alpha ICPMSQ2 Data with SRD

3/5/2024 9:03:09 PM

Analysis index:	64	User name	ALPHALAB\a2-icpmsq2	Comment	<Comment>
Analysis label:	CCB	Rack	0		
Analysis started at:	3/5/2024 10:56:09 AM	Vial	10		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	87.622 %	94.434 %	0.005 ppb	-8.001 ppb	-0.550 ppb	-0.900 ppb	0.201 ppb	-3.147 ppb	78.539 %
Concentration per Run 1	87.737 %	98.516 %	0.005 ppb	-10.737 ppb	-1.335 ppb	-0.810 ppb	-0.076 ppb	-5.670 ppb	78.889 %
Concentration per Run 2	86.624 %	92.950 %	0.006 ppb	-6.160 ppb	0.348 ppb	-1.131 ppb	-1.186 ppb	-3.014 ppb	77.586 %
Concentration per Run 3	88.506 %	91.837 %	0.004 ppb	-7.107 ppb	-0.664 ppb	-0.760 ppb	1.866 ppb	-0.757 ppb	79.143 %
Recovery Percentage 1			0.953 %	-8.001 %	-0.786 %	-9.004 %	0.201 %	-3.147 %	
Concentration RSD	1.1 %	3.8 %	20.3 %	30.2 %	154.0 %	22.4 %	768.2 %	78.1 %	1.1 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.005 ppb	-0.026 ppb	0.000 ppb	4.803 ppb	0.004 ppb	0.002 ppb	0.003 ppb	0.115 ppb	82.662 %
Concentration per Run 1	0.003 ppb	-0.017 ppb	-0.010 ppb	2.967 ppb	-0.007 ppb	0.010 ppb	0.042 ppb	0.110 ppb	84.997 %
Concentration per Run 2	-0.010 ppb	-0.028 ppb	-0.050 ppb	4.106 ppb	0.012 ppb	0.011 ppb	-0.005 ppb	0.126 ppb	79.250 %
Concentration per Run 3	0.022 ppb	-0.034 ppb	0.060 ppb	7.334 ppb	0.007 ppb	-0.016 ppb	-0.027 ppb	0.109 ppb	83.740 %
Recovery Percentage 1	0.101 %	-2.607 %	-0.012 %	9.605 %	0.875 %	0.082 %	0.338 %	2.299 %	
Concentration RSD	320.8 %	32.8 %	45,529.0 %	47.2 %	224.0 %	918.9 %	1,047.7 %	8.1 %	3.7 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.102 ppb	0.079 ppb	0.005 ppb	0.127 ppb	81.331 %	0.001 ppb	0.001 ppb	81.885 %	0.073 ppb
Concentration per Run 1	0.051 ppb	-0.008 ppb	0.004 ppb	0.148 ppb	81.622 %	0.002 ppb	0.003 ppb	80.392 %	0.083 ppb
Concentration per Run 2	0.155 ppb	0.098 ppb	0.002 ppb	0.106 ppb	80.722 %	0.002 ppb	-0.001 ppb	81.915 %	0.077 ppb
Concentration per Run 3	0.101 ppb	0.148 ppb	0.008 ppb	0.126 ppb	81.647 %	0.001 ppb	0.003 ppb	83.349 %	0.060 ppb
Recovery Percentage 1	20.460 %	1.585 %	0.045 %	6.334 %		0.373 %	0.737 %		1.837 %
Concentration RSD	51.1 %	100.9 %	68.6 %	16.9 %	0.6 %	45.0 %	142.1 %	1.8 %	16.4 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	-0.011 ppb	81.901 %	82.250 %	0.242 ppb	-0.007 ppb	87.503 %
Concentration per Run 1	-0.010 ppb	82.075 %	81.887 %	0.170 ppb	-0.008 ppb	88.784 %
Concentration per Run 2	-0.011 ppb	82.514 %	83.072 %	0.297 ppb	-0.006 ppb	86.142 %
Concentration per Run 3	-0.011 ppb	81.115 %	81.790 %	0.258 ppb	-0.006 ppb	87.583 %
Recovery Percentage 1	-2.113 %			24.155 %	-0.700 %	
Concentration RSD	1.0 %	0.9 %	0.9 %	26.9 %	17.0 %	1.5 %

Alpha ICPMSQ2 Data with SRD

3/5/2024 9:03:09 PM

Analysis index:	65	User name	ALPHALAB\a2-icpmsq2	Comment	<Comment>
Analysis label:	L2410579-08d10 6020TL	Rack	1		
Analysis started at:	3/5/2024 11:09:33 AM	Vial	60		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	96.932 %	97.774 %	0.003 ppb	3,350.942 ppb	400.857 ppb	0.703 ppb	2,545.909 ppb	3,480.053 ppb	87.895 %
Concentration per Run 1	96.094 %	101.020 %	0.003 ppb	3,292.777 ppb	396.884 ppb	0.510 ppb	2,480.361 ppb	3,458.381 ppb	87.160 %
Concentration per Run 2	97.886 %	98.516 %	0.004 ppb	3,369.182 ppb	401.424 ppb	1.121 ppb	2,579.713 ppb	3,544.273 ppb	88.670 %
Concentration per Run 3	96.816 %	93.785 %	0.001 ppb	3,390.866 ppb	404.264 ppb	0.478 ppb	2,577.652 ppb	3,437.505 ppb	87.856 %
Concentration RSD	0.9 %	3.8 %	63.2 %	1.5 %	0.9 %	51.6 %	2.2 %	1.6 %	0.9 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.020 ppb	0.494 ppb	1.388 ppb	6.513 ppb	0.032 ppb	0.381 ppb	0.390 ppb	0.204 ppb	93.040 %
Concentration per Run 1	-0.032 ppb	0.498 ppb	1.316 ppb	4.236 ppb	0.043 ppb	0.139 ppb	0.374 ppb	0.192 ppb	93.199 %
Concentration per Run 2	0.058 ppb	0.467 ppb	1.348 ppb	6.757 ppb	0.022 ppb	0.490 ppb	0.371 ppb	0.203 ppb	96.791 %
Concentration per Run 3	0.034 ppb	0.517 ppb	1.500 ppb	8.545 ppb	0.032 ppb	0.516 ppb	0.423 ppb	0.218 ppb	89.128 %
Concentration RSD	230.8 %	5.0 %	7.1 %	33.2 %	32.9 %	55.2 %	7.5 %	6.4 %	4.1 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.124 ppb	0.137 ppb	12.519 ppb	0.061 ppb	93.768 %	0.001 ppb	0.001 ppb	93.081 %	-0.054 ppb
Concentration per Run 1	0.143 ppb	0.050 ppb	12.428 ppb	0.061 ppb	92.552 %	0.001 ppb	0.002 ppb	91.614 %	-0.076 ppb
Concentration per Run 2	0.099 ppb	0.161 ppb	12.293 ppb	0.040 ppb	93.838 %	0.001 ppb	-0.001 ppb	92.782 %	-0.047 ppb
Concentration per Run 3	0.132 ppb	0.199 ppb	12.835 ppb	0.081 ppb	94.914 %	0.001 ppb	0.002 ppb	94.848 %	-0.039 ppb
Concentration RSD	18.5 %	56.7 %	2.3 %	33.8 %	1.3 %	2.9 %	156.4 %	1.8 %	36.2 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	6.270 ppb	90.846 %	90.173 %	0.058 ppb	0.008 ppb	104.099 %
Concentration per Run 1	6.738 ppb	87.403 %	85.633 %	0.042 ppb	0.006 ppb	101.759 %
Concentration per Run 2	6.163 ppb	92.594 %	91.993 %	0.063 ppb	0.010 ppb	104.414 %
Concentration per Run 3	5.907 ppb	92.540 %	92.892 %	0.067 ppb	0.009 ppb	106.125 %
Concentration RSD	6.8 %	3.3 %	4.4 %	23.4 %	26.8 %	2.1 %

Alpha ICPMSQ2 Data with SRD

3/5/2024 9:03:09 PM

Analysis index: 66
Analysis label: WG1891173-6d10 6020TL
Analysis started at: 3/5/2024 11:14:02 AM
User name ALPHALAB\a2-icpmsq2
Rack 2
Vial 1
Comment <Comment>

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	95.179 %	93.135 %	0.003 ppb	662.052 ppb	77.996 ppb	-0.182 ppb	485.205 ppb	701.287 ppb	88.812 %
Concentration per Run 1	94.173 %	95.733 %	0.002 ppb	669.733 ppb	78.267 ppb	-0.715 ppb	515.370 ppb	704.428 ppb	89.473 %
Concentration per Run 2	94.483 %	93.785 %	0.003 ppb	644.242 ppb	83.785 ppb	-0.170 ppb	437.348 ppb	706.321 ppb	87.711 %
Concentration per Run 3	96.880 %	89.889 %	0.003 ppb	672.181 ppb	71.936 ppb	0.341 ppb	502.897 ppb	693.114 ppb	89.252 %
Concentration RSD	1.6 %	3.2 %	14.1 %	2.3 %	7.6 %	290.6 %	8.6 %	1.0 %	1.1 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.002 ppb	0.077 ppb	0.226 ppb	3.110 ppb	0.009 ppb	0.061 ppb	0.124 ppb	0.101 ppb	90.884 %
Concentration per Run 1	-0.046 ppb	0.067 ppb	0.283 ppb	3.261 ppb	0.011 ppb	0.017 ppb	0.154 ppb	0.090 ppb	89.427 %
Concentration per Run 2	-0.015 ppb	0.048 ppb	0.237 ppb	2.809 ppb	0.002 ppb	0.058 ppb	0.122 ppb	0.108 ppb	91.822 %
Concentration per Run 3	0.066 ppb	0.118 ppb	0.157 ppb	3.260 ppb	0.015 ppb	0.108 ppb	0.095 ppb	0.104 ppb	91.403 %
Concentration RSD	3,394.0 %	46.6 %	28.2 %	8.4 %	72.1 %	74.5 %	23.7 %	9.1 %	1.4 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.037 ppb	-0.087 ppb	2.415 ppb	0.042 ppb	89.752 %	0.000 ppb	-0.001 ppb	87.765 %	-0.060 ppb
Concentration per Run 1	-0.018 ppb	-0.100 ppb	2.567 ppb	0.074 ppb	89.809 %	0.002 ppb	-0.001 ppb	90.616 %	-0.078 ppb
Concentration per Run 2	0.067 ppb	-0.081 ppb	2.398 ppb	0.020 ppb	92.266 %	0.000 ppb	-0.001 ppb	89.438 %	-0.064 ppb
Concentration per Run 3	0.061 ppb	-0.079 ppb	2.280 ppb	0.032 ppb	87.182 %	-0.002 ppb	-0.001 ppb	83.242 %	-0.038 ppb
Concentration RSD	128.6 %	13.4 %	6.0 %	66.5 %	2.8 %	908.6 %	0.0 %	4.5 %	33.3 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	1.255 ppb	88.986 %	87.884 %	0.028 ppb	0.004 ppb	96.642 %
Concentration per Run 1	1.338 ppb	88.380 %	89.794 %	0.016 ppb	0.004 ppb	97.053 %
Concentration per Run 2	1.193 ppb	90.042 %	89.363 %	0.031 ppb	0.004 ppb	97.877 %
Concentration per Run 3	1.233 ppb	88.536 %	84.494 %	0.037 ppb	0.005 ppb	94.996 %
Concentration RSD	6.0 %	1.0 %	3.3 %	40.0 %	14.2 %	1.5 %

Alpha ICPMSQ2 Data with SRD

3/5/2024 9:03:09 PM

Analysis index:	67	User name	ALPHALAB\a2-icpmsq2	Comment	<Comment>
Analysis label:	L2410579-01d10 6020TL	Rack	2		
Analysis started at:	3/5/2024 11:18:30 AM	Vial	2		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	94.676 %	93.599 %	0.000 ppb	3,656.241 ppb	49.500 ppb	4.140 ppb	1,581.089 ppb	6,865.244 ppb	83.731 %
Concentration per Run 1	94.474 %	93.785 %	0.001 ppb	3,796.624 ppb	49.080 ppb	3.981 ppb	1,684.571 ppb	7,238.060 ppb	83.734 %
Concentration per Run 2	95.828 %	88.497 %	0.000 ppb	3,735.287 ppb	51.150 ppb	3.351 ppb	1,520.687 ppb	6,881.368 ppb	83.764 %
Concentration per Run 3	93.727 %	98.516 %	-0.001 ppb	3,436.811 ppb	48.271 ppb	5.087 ppb	1,538.007 ppb	6,476.303 ppb	83.695 %
Concentration RSD	1.1 %	5.4 %	1,561.5 %	5.3 %	3.0 %	21.2 %	5.7 %	5.6 %	0.0 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.590 ppb	-0.014 ppb	44.414 ppb	56.225 ppb	0.049 ppb	0.222 ppb	0.079 ppb	0.184 ppb	94.123 %
Concentration per Run 1	0.769 ppb	-0.012 ppb	46.193 ppb	67.174 ppb	0.043 ppb	0.152 ppb	0.080 ppb	0.224 ppb	95.506 %
Concentration per Run 2	0.486 ppb	-0.013 ppb	44.503 ppb	49.373 ppb	0.054 ppb	0.277 ppb	0.095 ppb	0.157 ppb	91.822 %
Concentration per Run 3	0.515 ppb	-0.017 ppb	42.546 ppb	52.127 ppb	0.051 ppb	0.237 ppb	0.062 ppb	0.172 ppb	95.041 %
Concentration RSD	26.4 %	18.7 %	4.1 %	17.0 %	11.4 %	28.8 %	20.7 %	19.0 %	2.1 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.547 ppb	0.004 ppb	59.623 ppb	3.210 ppb	89.758 %	0.000 ppb	0.002 ppb	89.943 %	-0.045 ppb
Concentration per Run 1	0.521 ppb	-0.099 ppb	64.156 ppb	3.530 ppb	90.069 %	-0.001 ppb	0.002 ppb	93.134 %	-0.065 ppb
Concentration per Run 2	0.589 ppb	0.089 ppb	59.096 ppb	3.228 ppb	91.224 %	-0.001 ppb	0.002 ppb	91.278 %	-0.029 ppb
Concentration per Run 3	0.531 ppb	0.021 ppb	55.618 ppb	2.871 ppb	87.981 %	0.000 ppb	0.002 ppb	85.416 %	-0.041 ppb
Concentration RSD	6.7 %	2,673.9 %	7.2 %	10.3 %	1.8 %	5.4 %	5.0 %	4.5 %	40.6 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	1.192 ppb	84.244 %	84.318 %	0.020 ppb	0.001 ppb	98.275 %
Concentration per Run 1	1.493 ppb	86.076 %	86.454 %	0.009 ppb	-0.002 ppb	100.441 %
Concentration per Run 2	1.029 ppb	84.797 %	84.774 %	0.026 ppb	-0.001 ppb	96.249 %
Concentration per Run 3	1.054 ppb	81.858 %	81.724 %	0.025 ppb	0.006 ppb	98.134 %
Concentration RSD	21.9 %	2.6 %	2.8 %	48.4 %	473.8 %	2.1 %

Alpha ICPMSQ2 Data with SRD

3/5/2024 9:03:09 PM

Analysis index: 68 User name ALPHALAB\a2-icpmsq2 Comment <Comment>
Analysis label: L2410579-02 6020TL Rack 1
Analysis started at: 3/5/2024 11:22:58 AM Vial 49

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	98.402 %	97.681 %	0.004 ppb	7,091.409 ppb	6,464.611 ppb	3.928 ppb	12,005.867 ppb	73,503.003 ppb	72.455 %
Concentration per Run 1	98.369 %	99.907 %	-0.001 ppb	7,210.186 ppb	6,511.226 ppb	4.601 ppb	12,575.462 ppb	77,234.583 ppb	73.440 %
Concentration per Run 2	97.624 %	94.898 %	0.005 ppb	7,070.059 ppb	6,441.628 ppb	3.323 ppb	11,822.910 ppb	70,965.171 ppb	71.258 %
Concentration per Run 3	99.212 %	98.237 %	0.008 ppb	6,993.982 ppb	6,440.979 ppb	3.860 ppb	11,619.231 ppb	72,309.256 ppb	72.668 %
Concentration RSD	0.8 %	2.6 %	112.9 %	1.5 %	0.6 %	16.3 %	4.2 %	4.5 %	1.5 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.402 ppb	1.892 ppb	0.496 ppb	10.105 ppb	0.491 ppb	0.285 ppb	1.492 ppb	0.486 ppb	98.937 %
Concentration per Run 1	0.511 ppb	2.081 ppb	0.407 ppb	12.114 ppb	0.509 ppb	0.305 ppb	1.439 ppb	0.583 ppb	99.067 %
Concentration per Run 2	0.412 ppb	1.789 ppb	0.545 ppb	7.709 ppb	0.516 ppb	0.219 ppb	1.488 ppb	0.415 ppb	100.669 %
Concentration per Run 3	0.283 ppb	1.807 ppb	0.536 ppb	10.493 ppb	0.447 ppb	0.330 ppb	1.548 ppb	0.460 ppb	97.076 %
Concentration RSD	28.6 %	8.6 %	15.5 %	22.0 %	7.8 %	20.4 %	3.7 %	17.9 %	1.8 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.253 ppb	0.636 ppb	305.231 ppb	6.266 ppb	90.526 %	-0.001 ppb	0.004 ppb	91.386 %	0.209 ppb
Concentration per Run 1	0.289 ppb	1.070 ppb	316.779 ppb	6.383 ppb	93.986 %	0.000 ppb	0.005 ppb	96.350 %	0.188 ppb
Concentration per Run 2	0.270 ppb	0.489 ppb	294.611 ppb	6.480 ppb	89.594 %	-0.002 ppb	0.006 ppb	91.234 %	0.226 ppb
Concentration per Run 3	0.202 ppb	0.348 ppb	304.303 ppb	5.936 ppb	87.997 %	0.000 ppb	0.002 ppb	86.574 %	0.213 ppb
Concentration RSD	18.1 %	60.2 %	3.6 %	4.6 %	3.4 %	185.5 %	38.8 %	5.4 %	9.3 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	31.573 ppb	72.745 %	71.465 %	0.040 ppb	0.023 ppb	95.940 %
Concentration per Run 1	32.066 ppb	74.437 %	74.371 %	0.024 ppb	0.022 ppb	96.473 %
Concentration per Run 2	31.413 ppb	73.466 %	71.969 %	0.049 ppb	0.020 ppb	96.898 %
Concentration per Run 3	31.240 ppb	70.332 %	68.055 %	0.045 ppb	0.026 ppb	94.449 %
Concentration RSD	1.4 %	2.9 %	4.5 %	34.3 %	13.6 %	1.4 %

Alpha ICPMSQ2 Data with SRD

3/5/2024 9:03:09 PM

Analysis index: 69
Analysis label: L2410579-03 6020TL
Analysis started at: 3/5/2024 11:27:25 AM
User name ALPHALAB\a2-icpmsq2
Rack 1
Vial 50
Comment <Comment>

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	99.401 %	101.484 %	0.004 ppb	13,564.450 ppb	9,526.476 ppb	1.528 ppb	20,979.128 ppb	103,011.191 ppb	73.197 %
Concentration per Run 1	99.555 %	102.690 %	0.001 ppb	13,539.275 ppb	9,511.322 ppb	2.105 ppb	21,191.071 ppb	102,400.770 ppb	73.485 %
Concentration per Run 2	100.037 %	102.134 %	0.010 ppb	13,403.056 ppb	9,482.572 ppb	0.885 ppb	20,548.011 ppb	102,069.425 ppb	72.051 %
Concentration per Run 3	98.610 %	99.629 %	0.001 ppb	13,751.018 ppb	9,585.533 ppb	1.594 ppb	21,198.302 ppb	104,563.376 ppb	74.054 %
Concentration RSD	0.7 %	1.6 %	114.5 %	1.3 %	0.6 %	40.1 %	1.8 %	1.3 %	1.4 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.966 ppb	2.194 ppb	1.637 ppb	19.455 ppb	0.596 ppb	0.583 ppb	1.696 ppb	0.362 ppb	100.015 %
Concentration per Run 1	0.947 ppb	2.186 ppb	1.525 ppb	20.896 ppb	0.531 ppb	0.571 ppb	1.705 ppb	0.330 ppb	105.114 %
Concentration per Run 2	1.005 ppb	2.116 ppb	1.744 ppb	19.703 ppb	0.580 ppb	0.556 ppb	1.791 ppb	0.393 ppb	96.777 %
Concentration per Run 3	0.945 ppb	2.280 ppb	1.641 ppb	17.767 ppb	0.676 ppb	0.622 ppb	1.591 ppb	0.364 ppb	98.154 %
Concentration RSD	3.5 %	3.7 %	6.7 %	8.1 %	12.3 %	6.0 %	5.9 %	8.8 %	4.5 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.353 ppb	0.767 ppb	477.916 ppb	2.511 ppb	92.977 %	0.000 ppb	0.011 ppb	93.939 %	0.407 ppb
Concentration per Run 1	0.323 ppb	1.016 ppb	480.800 ppb	2.594 ppb	93.390 %	-0.002 ppb	0.012 ppb	94.658 %	0.381 ppb
Concentration per Run 2	0.381 ppb	0.761 ppb	477.765 ppb	2.534 ppb	92.026 %	-0.002 ppb	0.005 ppb	93.339 %	0.434 ppb
Concentration per Run 3	0.354 ppb	0.523 ppb	475.184 ppb	2.406 ppb	93.515 %	0.003 ppb	0.015 ppb	93.820 %	0.405 ppb
Concentration RSD	8.2 %	32.1 %	0.6 %	3.8 %	0.9 %	2,438.7 %	45.0 %	0.7 %	6.6 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	106.089 ppb	74.608 %	73.293 %	0.090 ppb	0.012 ppb	97.567 %
Concentration per Run 1	107.875 ppb	73.786 %	74.241 %	0.078 ppb	0.010 ppb	99.134 %
Concentration per Run 2	106.543 ppb	75.389 %	73.188 %	0.098 ppb	0.011 ppb	97.022 %
Concentration per Run 3	103.848 ppb	74.648 %	72.452 %	0.094 ppb	0.016 ppb	96.545 %
Concentration RSD	1.9 %	1.1 %	1.2 %	11.7 %	26.8 %	1.4 %

Alpha ICPMSQ2 Data with SRD

3/5/2024 9:03:09 PM

Analysis index:	70	User name	ALPHALAB\a2-icpmsq2	Comment	<Comment>
Analysis label:	L2410579-04 6020TL	Rack	1		
Analysis started at:	3/5/2024 11:31:52 AM	Vial	51		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	96.232 %	100.835 %	0.085 ppb	16,419.308 ppb	7,767.850 ppb	98.671 ppb	6,361.177 ppb	40,650.558 ppb	70.690 %
Concentration per Run 1	95.314 %	96.846 %	0.084 ppb	16,530.846 ppb	7,864.799 ppb	94.384 ppb	6,363.863 ppb	39,997.802 ppb	70.622 %
Concentration per Run 2	97.120 %	110.204 %	0.078 ppb	15,902.730 ppb	7,591.859 ppb	101.388 ppb	6,446.910 ppb	40,955.724 ppb	71.493 %
Concentration per Run 3	96.262 %	95.454 %	0.092 ppb	16,824.348 ppb	7,846.892 ppb	100.241 ppb	6,272.759 ppb	40,998.149 ppb	69.955 %
Concentration RSD	0.9 %	8.1 %	8.1 %	2.9 %	2.0 %	3.8 %	1.4 %	1.4 %	1.1 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.557 ppb	14.795 ppb	23.179 ppb	583.785 ppb	0.545 ppb	12.709 ppb	1.503 ppb	1.804 ppb	88.483 %
Concentration per Run 1	0.501 ppb	14.559 ppb	22.402 ppb	578.516 ppb	0.533 ppb	12.770 ppb	1.713 ppb	1.748 ppb	87.845 %
Concentration per Run 2	0.602 ppb	15.079 ppb	22.578 ppb	582.169 ppb	0.590 ppb	12.517 ppb	1.478 ppb	1.691 ppb	93.245 %
Concentration per Run 3	0.568 ppb	14.746 ppb	24.558 ppb	590.670 ppb	0.511 ppb	12.841 ppb	1.317 ppb	1.973 ppb	84.359 %
Concentration RSD	9.3 %	1.8 %	5.2 %	1.1 %	7.5 %	1.3 %	13.3 %	8.3 %	5.1 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.775 ppb	2.219 ppb	241.638 ppb	0.786 ppb	83.194 %	0.002 ppb	0.075 ppb	84.912 %	-0.037 ppb
Concentration per Run 1	0.676 ppb	1.773 ppb	236.177 ppb	0.729 ppb	80.792 %	0.000 ppb	0.079 ppb	81.750 %	-0.023 ppb
Concentration per Run 2	0.809 ppb	2.483 ppb	248.680 ppb	0.801 ppb	86.322 %	0.003 ppb	0.072 ppb	91.898 %	-0.045 ppb
Concentration per Run 3	0.842 ppb	2.400 ppb	240.056 ppb	0.829 ppb	82.467 %	0.003 ppb	0.075 ppb	81.088 %	-0.042 ppb
Concentration RSD	11.3 %	17.5 %	2.6 %	6.6 %	3.4 %	106.2 %	5.1 %	7.1 %	31.9 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	37.535 ppb	68.592 %	65.919 %	0.039 ppb	0.403 ppb	88.137 %
Concentration per Run 1	37.735 ppb	66.640 %	64.071 %	0.032 ppb	0.399 ppb	88.299 %
Concentration per Run 2	35.924 ppb	71.600 %	68.709 %	0.045 ppb	0.393 ppb	90.214 %
Concentration per Run 3	38.945 ppb	67.536 %	64.978 %	0.041 ppb	0.418 ppb	85.897 %
Concentration RSD	4.1 %	3.9 %	3.7 %	16.2 %	3.2 %	2.5 %

Alpha ICPMSQ2 Data with SRD

3/5/2024 9:03:09 PM

Analysis index:	71	User name	ALPHALAB\a2-icpmsq2	Comment	<Comment>
Analysis label:	L2410579-05 6020TL	Rack	1		
Analysis started at:	3/5/2024 11:36:19 AM	Vial	52		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	96.041 %	102.968 %	0.002 ppb	49,381.383 ppb	11,157.196 ppb	5.321 ppb	1,184.892 ppb	17,956.734 ppb	75.126 %
Concentration per Run 1	95.836 %	101.577 %	0.002 ppb	46,665.641 ppb	10,488.745 ppb	5.543 ppb	1,098.781 ppb	16,715.212 ppb	75.970 %
Concentration per Run 2	96.768 %	109.091 %	0.004 ppb	49,109.394 ppb	11,277.564 ppb	4.364 ppb	1,251.420 ppb	18,634.165 ppb	75.458 %
Concentration per Run 3	95.520 %	98.237 %	-0.002 ppb	52,369.114 ppb	11,705.279 ppb	6.056 ppb	1,204.473 ppb	18,520.826 ppb	73.951 %
Concentration RSD	0.7 %	5.4 %	176.9 %	5.8 %	5.5 %	16.3 %	6.6 %	6.0 %	1.4 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.177 ppb	1.159 ppb	2.038 ppb	10.398 ppb	0.022 ppb	0.366 ppb	0.102 ppb	1.018 ppb	87.302 %
Concentration per Run 1	0.072 ppb	1.169 ppb	2.082 ppb	8.688 ppb	0.026 ppb	0.471 ppb	0.120 ppb	0.918 ppb	79.549 %
Concentration per Run 2	0.193 ppb	1.194 ppb	2.125 ppb	10.696 ppb	0.030 ppb	0.360 ppb	0.073 ppb	1.075 ppb	91.149 %
Concentration per Run 3	0.266 ppb	1.114 ppb	1.907 ppb	11.810 ppb	0.010 ppb	0.268 ppb	0.112 ppb	1.059 ppb	91.209 %
Concentration RSD	55.3 %	3.5 %	5.7 %	15.2 %	47.5 %	27.6 %	24.4 %	8.5 %	7.7 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.085 ppb	0.280 ppb	97.631 ppb	0.044 ppb	83.719 %	-0.002 ppb	0.011 ppb	84.813 %	-0.069 ppb
Concentration per Run 1	0.046 ppb	0.087 ppb	95.682 ppb	0.036 ppb	77.601 %	-0.002 ppb	0.015 ppb	74.642 %	-0.078 ppb
Concentration per Run 2	0.076 ppb	0.365 ppb	101.130 ppb	0.042 ppb	88.589 %	-0.002 ppb	0.009 ppb	89.880 %	-0.069 ppb
Concentration per Run 3	0.134 ppb	0.386 ppb	96.081 ppb	0.054 ppb	84.967 %	-0.002 ppb	0.009 ppb	89.917 %	-0.059 ppb
Concentration RSD	52.9 %	59.6 %	3.1 %	20.9 %	6.7 %	0.0 %	29.9 %	10.4 %	14.4 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	60.618 ppb	74.113 %	72.557 %	0.015 ppb	0.065 ppb	88.379 %
Concentration per Run 1	61.762 ppb	67.504 %	65.708 %	0.007 ppb	0.067 ppb	82.207 %
Concentration per Run 2	61.523 ppb	78.218 %	78.419 %	0.019 ppb	0.066 ppb	91.812 %
Concentration per Run 3	58.569 ppb	76.617 %	73.543 %	0.021 ppb	0.062 ppb	91.118 %
Concentration RSD	2.9 %	7.8 %	8.8 %	49.5 %	4.0 %	6.1 %

Alpha ICPMSQ2 Data with SRD

3/5/2024 9:03:09 PM

Analysis index: 72 User name ALPHALAB\a2-icpmsq2 Comment <Comment>
Analysis label: L2410579-06 6020TL Rack 1
Analysis started at: 3/5/2024 11:40:46 AM Vial 53

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	98.990 %	103.711 %	0.004 ppb	31,690.747 ppb	23,678.408 ppb	12.983 ppb	40,631.768 ppb	97,799.244 ppb	69.222 %
Concentration per Run 1	99.097 %	104.917 %	0.004 ppb	30,126.797 ppb	22,586.725 ppb	15.841 ppb	39,217.263 ppb	95,589.607 ppb	69.224 %
Concentration per Run 2	98.956 %	99.351 %	0.005 ppb	33,320.025 ppb	24,889.561 ppb	9.759 ppb	42,761.000 ppb	100,958.060 ppb	69.570 %
Concentration per Run 3	98.917 %	106.865 %	0.002 ppb	31,625.419 ppb	23,558.939 ppb	13.349 ppb	39,917.041 ppb	96,850.066 ppb	68.874 %
Concentration RSD	0.1 %	3.8 %	41.0 %	5.0 %	4.9 %	23.5 %	4.6 %	2.9 %	0.5 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.380 ppb	0.418 ppb	3,892.928 ppb	38.743 ppb	0.494 ppb	0.621 ppb	1.359 ppb	0.881 ppb	97.900 %
Concentration per Run 1	0.308 ppb	0.383 ppb	3,884.977 ppb	31.649 ppb	0.498 ppb	0.539 ppb	1.212 ppb	0.884 ppb	89.652 %
Concentration per Run 2	0.359 ppb	0.428 ppb	3,881.217 ppb	39.690 ppb	0.508 ppb	0.795 ppb	1.473 ppb	0.918 ppb	106.431 %
Concentration per Run 3	0.475 ppb	0.442 ppb	3,912.589 ppb	44.890 ppb	0.476 ppb	0.528 ppb	1.392 ppb	0.840 ppb	97.615 %
Concentration RSD	22.5 %	7.3 %	0.4 %	17.2 %	3.3 %	24.3 %	9.8 %	4.4 %	8.6 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.318 ppb	0.200 ppb	226.909 ppb	0.127 ppb	91.622 %	0.003 ppb	0.047 ppb	91.991 %	-0.069 ppb
Concentration per Run 1	0.376 ppb	-0.017 ppb	227.103 ppb	0.118 ppb	87.281 %	0.002 ppb	0.036 ppb	87.160 %	-0.073 ppb
Concentration per Run 2	0.330 ppb	0.270 ppb	231.109 ppb	0.146 ppb	93.521 %	0.001 ppb	0.049 ppb	96.823 %	-0.082 ppb
Concentration per Run 3	0.247 ppb	0.347 ppb	222.516 ppb	0.119 ppb	94.065 %	0.005 ppb	0.057 ppb	91.989 %	-0.051 ppb
Concentration RSD	20.6 %	96.0 %	1.9 %	12.3 %	4.1 %	79.5 %	21.5 %	5.3 %	23.6 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	83.346 ppb	69.864 %	68.008 %	0.144 ppb	0.073 ppb	94.796 %
Concentration per Run 1	81.810 ppb	66.239 %	64.910 %	0.140 ppb	0.073 ppb	91.640 %
Concentration per Run 2	83.926 ppb	72.693 %	71.926 %	0.136 ppb	0.075 ppb	96.684 %
Concentration per Run 3	84.300 ppb	70.659 %	67.189 %	0.155 ppb	0.071 ppb	96.063 %
Concentration RSD	1.6 %	4.7 %	5.3 %	6.7 %	2.7 %	2.9 %

Alpha ICPMSQ2 Data with SRD

3/5/2024 9:03:09 PM

Analysis index:	73	User name	ALPHALAB\a2-icpmsq2	Comment	<Comment>
Analysis label:	L2410579-07 6020TL	Rack	1		
Analysis started at:	3/5/2024 11:45:14 AM	Vial	54		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	100.641 %	99.351 %	0.004 ppb	22,063.165 ppb	12,148.214 ppb	1.589 ppb	11,991.993 ppb	113,976.916 ppb	72.886 %
Concentration per Run 1	100.397 %	98.794 %	0.006 ppb	21,452.883 ppb	11,787.877 ppb	1.776 ppb	11,645.292 ppb	112,881.428 ppb	72.026 %
Concentration per Run 2	100.910 %	94.620 %	0.004 ppb	23,387.179 ppb	12,818.917 ppb	1.331 ppb	12,902.991 ppb	118,962.054 ppb	73.413 %
Concentration per Run 3	100.614 %	104.638 %	0.002 ppb	21,349.432 ppb	11,837.846 ppb	1.660 ppb	11,427.696 ppb	110,087.268 ppb	73.219 %
Concentration RSD	0.3 %	5.1 %	49.8 %	5.2 %	4.8 %	14.5 %	6.6 %	4.0 %	1.0 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.298 ppb	0.392 ppb	103.472 ppb	5.394 ppb	0.343 ppb	0.323 ppb	1.910 ppb	0.749 ppb	96.392 %
Concentration per Run 1	0.281 ppb	0.406 ppb	102.961 ppb	5.533 ppb	0.381 ppb	0.359 ppb	1.834 ppb	0.713 ppb	90.984 %
Concentration per Run 2	0.351 ppb	0.383 ppb	104.623 ppb	4.009 ppb	0.275 ppb	0.259 ppb	1.925 ppb	0.847 ppb	101.401 %
Concentration per Run 3	0.261 ppb	0.386 ppb	102.831 ppb	6.641 ppb	0.374 ppb	0.352 ppb	1.970 ppb	0.689 ppb	96.791 %
Concentration RSD	15.8 %	3.2 %	1.0 %	24.5 %	17.3 %	17.4 %	3.6 %	11.4 %	5.4 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.302 ppb	0.148 ppb	471.159 ppb	0.158 ppb	92.560 %	0.000 ppb	0.017 ppb	93.925 %	-0.025 ppb
Concentration per Run 1	0.369 ppb	0.162 ppb	465.428 ppb	0.168 ppb	89.106 %	0.004 ppb	0.026 ppb	89.457 %	-0.021 ppb
Concentration per Run 2	0.280 ppb	0.224 ppb	481.935 ppb	0.157 ppb	94.111 %	-0.002 ppb	0.005 ppb	96.838 %	-0.020 ppb
Concentration per Run 3	0.257 ppb	0.059 ppb	466.113 ppb	0.149 ppb	94.464 %	-0.002 ppb	0.021 ppb	95.480 %	-0.033 ppb
Concentration RSD	19.6 %	56.4 %	2.0 %	6.2 %	3.2 %	1,511.1 %	61.8 %	4.2 %	30.1 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	84.810 ppb	73.488 %	72.393 %	0.363 ppb	0.011 ppb	97.004 %
Concentration per Run 1	85.004 ppb	72.029 %	71.001 %	0.335 ppb	0.009 ppb	96.261 %
Concentration per Run 2	85.134 ppb	74.512 %	74.515 %	0.387 ppb	0.009 ppb	98.317 %
Concentration per Run 3	84.292 ppb	73.923 %	71.662 %	0.368 ppb	0.013 ppb	96.436 %
Concentration RSD	0.5 %	1.8 %	2.6 %	7.2 %	21.0 %	1.2 %

Alpha ICPMSQ2 Data with SRD

3/5/2024 9:03:09 PM

Analysis index:	74	User name	ALPHALAB\a2-icpmsq2	Comment	<Comment>
Analysis label:	L2410579-09 6020TL	Rack	1		
Analysis started at:	3/5/2024 11:49:41 AM	Vial	55		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	93.086 %	107.143 %	0.002 ppb	30,967.204 ppb	23,062.291 ppb	13.610 ppb	41,373.163 ppb	97,095.838 ppb	58.972 %
Concentration per Run 1	92.959 %	101.020 %	-0.001 ppb	32,021.822 ppb	24,063.655 ppb	13.282 ppb	41,706.860 ppb	99,536.099 ppb	58.388 %
Concentration per Run 2	93.048 %	106.308 %	-0.001 ppb	31,213.250 ppb	22,981.022 ppb	14.972 ppb	41,663.988 ppb	97,431.922 ppb	58.676 %
Concentration per Run 3	93.251 %	114.100 %	0.007 ppb	29,666.540 ppb	22,142.196 ppb	12.578 ppb	40,748.642 ppb	94,319.494 ppb	59.852 %
Concentration RSD	0.2 %	6.1 %	245.9 %	3.9 %	4.2 %	9.0 %	1.3 %	2.7 %	1.3 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.359 ppb	0.607 ppb	3,888.358 ppb	48.053 ppb	0.474 ppb	0.823 ppb	1.843 ppb	1.101 ppb	95.595 %
Concentration per Run 1	0.432 ppb	0.639 ppb	3,968.205 ppb	51.426 ppb	0.513 ppb	1.140 ppb	1.951 ppb	1.132 ppb	95.925 %
Concentration per Run 2	0.303 ppb	0.572 ppb	3,852.227 ppb	44.813 ppb	0.455 ppb	0.675 ppb	1.813 ppb	1.087 ppb	96.957 %
Concentration per Run 3	0.344 ppb	0.610 ppb	3,844.642 ppb	47.919 ppb	0.454 ppb	0.654 ppb	1.764 ppb	1.084 ppb	93.904 %
Concentration RSD	18.3 %	5.5 %	1.8 %	6.9 %	7.1 %	33.4 %	5.3 %	2.4 %	1.6 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.334 ppb	0.242 ppb	228.384 ppb	0.161 ppb	90.255 %	0.003 ppb	0.076 ppb	90.397 %	-0.048 ppb
Concentration per Run 1	0.358 ppb	0.118 ppb	225.558 ppb	0.153 ppb	90.737 %	0.004 ppb	0.074 ppb	91.802 %	-0.066 ppb
Concentration per Run 2	0.284 ppb	0.268 ppb	224.889 ppb	0.149 ppb	94.061 %	0.007 ppb	0.082 ppb	92.596 %	-0.017 ppb
Concentration per Run 3	0.362 ppb	0.341 ppb	234.703 ppb	0.182 ppb	85.967 %	0.000 ppb	0.071 ppb	86.795 %	-0.060 ppb
Concentration RSD	13.1 %	46.9 %	2.4 %	11.0 %	4.5 %	112.2 %	7.5 %	3.5 %	56.8 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	84.883 ppb	68.510 %	66.014 %	0.141 ppb	0.095 ppb	93.117 %
Concentration per Run 1	85.908 ppb	70.436 %	66.373 %	0.123 ppb	0.092 ppb	95.092 %
Concentration per Run 2	82.842 ppb	70.603 %	68.686 %	0.142 ppb	0.092 ppb	98.145 %
Concentration per Run 3	85.899 ppb	64.490 %	62.981 %	0.158 ppb	0.099 ppb	86.115 %
Concentration RSD	2.1 %	5.1 %	4.3 %	12.4 %	4.5 %	6.7 %

Alpha ICPMSQ2 Data with SRD

3/5/2024 9:03:09 PM

Analysis index:	75	User name	ALPHALAB\a2-icpmsq2	Comment	<Comment>
Analysis label:	CCV	Rack	0		
Analysis started at:	3/5/2024 11:57:48 AM	Vial	9		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	96.570 %	108.256 %	61.615 ppb	5,503.270 ppb	5,519.891 ppb	55.301 ppb	5,818.939 ppb	5,508.494 ppb	87.632 %
Concentration per Run 1	96.703 %	107.699 %	62.159 ppb	5,615.651 ppb	5,678.225 ppb	58.989 ppb	6,145.989 ppb	5,697.323 ppb	87.045 %
Concentration per Run 2	97.317 %	107.700 %	61.094 ppb	5,400.384 ppb	5,356.816 ppb	54.317 ppb	5,603.351 ppb	5,378.701 ppb	88.654 %
Concentration per Run 3	95.691 %	109.369 %	61.593 ppb	5,493.774 ppb	5,524.633 ppb	52.599 ppb	5,707.477 ppb	5,449.458 ppb	87.197 %
Recovery Percentage 1			102.692 %	91.721 %	91.998 %	92.169 %	96.982 %	91.808 %	
Concentration RSD	0.9 %	0.9 %	0.9 %	2.0 %	2.9 %	6.0 %	4.9 %	3.0 %	1.0 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	56.233 ppb	57.912 ppb	58.362 ppb	5,910.263 ppb	60.583 ppb	61.631 ppb	62.289 ppb	61.429 ppb	90.796 %
Concentration per Run 1	58.811 ppb	58.498 ppb	59.008 ppb	6,033.124 ppb	62.941 ppb	62.966 ppb	65.531 ppb	61.847 ppb	88.939 %
Concentration per Run 2	53.750 ppb	57.446 ppb	57.763 ppb	5,890.136 ppb	58.768 ppb	63.135 ppb	60.600 ppb	61.694 ppb	89.854 %
Concentration per Run 3	56.138 ppb	57.791 ppb	58.316 ppb	5,807.528 ppb	60.041 ppb	58.794 ppb	60.734 ppb	60.746 ppb	93.594 %
Recovery Percentage 1	93.722 %	96.519 %	97.271 %	98.504 %	100.972 %	102.719 %	103.814 %	102.382 %	
Concentration RSD	4.5 %	0.9 %	1.1 %	1.9 %	3.5 %	4.0 %	4.5 %	1.0 %	2.7 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	62.614 ppb	62.368 ppb	58.536 ppb	58.983 ppb	87.897 %	60.296 ppb	61.229 ppb	84.867 %	57.428 ppb
Concentration per Run 1	62.825 ppb	63.563 ppb	59.122 ppb	61.166 ppb	89.167 %	61.111 ppb	61.905 ppb	85.021 %	57.280 ppb
Concentration per Run 2	63.229 ppb	63.283 ppb	58.348 ppb	57.028 ppb	85.167 %	60.257 ppb	60.406 ppb	81.621 %	57.313 ppb
Concentration per Run 3	61.788 ppb	60.257 ppb	58.137 ppb	58.754 ppb	89.356 %	59.519 ppb	61.378 ppb	87.958 %	57.692 ppb
Recovery Percentage 1	104.357 %	103.946 %	97.560 %	98.305 %		100.493 %	102.049 %		95.714 %
Concentration RSD	1.2 %	2.9 %	0.9 %	3.5 %	2.7 %	1.3 %	1.2 %	3.7 %	0.4 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	58.606 ppb	82.049 %	80.595 %	61.332 ppb	62.699 ppb	94.015 %
Concentration per Run 1	57.738 ppb	81.312 %	80.720 %	60.796 ppb	62.527 ppb	95.295 %
Concentration per Run 2	58.781 ppb	79.083 %	78.157 %	61.443 ppb	62.638 ppb	91.462 %
Concentration per Run 3	59.301 ppb	85.754 %	82.907 %	61.757 ppb	62.933 ppb	95.288 %
Recovery Percentage 1	97.677 %			102.219 %	104.499 %	
Concentration RSD	1.4 %	4.1 %	3.0 %	0.8 %	0.3 %	2.4 %

Alpha ICPMSQ2 Data with SRD

3/5/2024 9:03:09 PM

Analysis index:	76	User name	ALPHALAB\a2-icpmsq2	Comment	<Comment>
Analysis label:	CCB	Rack	0		
Analysis started at:	3/5/2024 12:04:49 PM	Vial	10		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	89.248 %	95.918 %	0.001 ppb	-6.566 ppb	-0.571 ppb	-0.862 ppb	2.164 ppb	4.308 ppb	79.686 %
Concentration per Run 1	89.266 %	96.568 %	0.002 ppb	-9.287 ppb	-0.699 ppb	-1.075 ppb	-5.540 ppb	1.281 ppb	79.400 %
Concentration per Run 2	90.019 %	89.610 %	-0.001 ppb	-5.203 ppb	-0.291 ppb	-1.015 ppb	7.235 ppb	15.070 ppb	81.079 %
Concentration per Run 3	88.458 %	101.577 %	0.001 ppb	-5.208 ppb	-0.722 ppb	-0.496 ppb	4.798 ppb	-3.428 ppb	78.578 %
Recovery Percentage 1			0.183 %	-6.566 %	-0.815 %	-8.621 %	2.164 %	4.308 %	
Concentration RSD	0.9 %	6.3 %	145.2 %	35.9 %	42.5 %	37.0 %	313.4 %	223.2 %	1.6 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.009 ppb	-0.029 ppb	0.105 ppb	3.930 ppb	-0.007 ppb	0.023 ppb	-0.017 ppb	0.084 ppb	85.017 %
Concentration per Run 1	-0.014 ppb	-0.036 ppb	0.115 ppb	2.463 ppb	-0.007 ppb	0.002 ppb	-0.018 ppb	0.074 ppb	89.008 %
Concentration per Run 2	0.009 ppb	-0.031 ppb	0.046 ppb	6.496 ppb	-0.007 ppb	0.052 ppb	-0.015 ppb	0.088 ppb	77.574 %
Concentration per Run 3	0.032 ppb	-0.019 ppb	0.154 ppb	2.831 ppb	-0.007 ppb	0.016 ppb	-0.018 ppb	0.091 ppb	88.470 %
Recovery Percentage 1	0.180 %	-2.882 %	10.484 %	7.860 %	-1.305 %	1.167 %	-1.709 %	1.685 %	
Concentration RSD	258.3 %	30.7 %	52.1 %	56.7 %	0.0 %	110.6 %	8.9 %	10.2 %	7.6 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.116 ppb	0.004 ppb	-0.003 ppb	0.044 ppb	83.746 %	0.001 ppb	0.002 ppb	84.236 %	0.010 ppb
Concentration per Run 1	0.088 ppb	-0.015 ppb	-0.007 ppb	0.064 ppb	87.986 %	0.000 ppb	-0.001 ppb	85.771 %	-0.004 ppb
Concentration per Run 2	0.170 ppb	-0.016 ppb	0.001 ppb	0.036 ppb	79.358 %	0.001 ppb	0.007 ppb	78.672 %	0.010 ppb
Concentration per Run 3	0.089 ppb	0.043 ppb	-0.004 ppb	0.033 ppb	83.896 %	0.002 ppb	-0.001 ppb	88.265 %	0.024 ppb
Recovery Percentage 1	23.110 %	0.080 %	-0.032 %	2.218 %		0.171 %	0.781 %		0.248 %
Concentration RSD	40.6 %	841.3 %	128.5 %	38.5 %	5.2 %	160.3 %	277.9 %	5.9 %	138.0 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	-0.006 ppb	84.140 %	84.354 %	0.107 ppb	-0.007 ppb	89.808 %
Concentration per Run 1	0.003 ppb	87.325 %	85.406 %	0.064 ppb	-0.009 ppb	93.056 %
Concentration per Run 2	0.006 ppb	80.132 %	79.745 %	0.128 ppb	-0.005 ppb	85.031 %
Concentration per Run 3	-0.026 ppb	84.965 %	87.910 %	0.128 ppb	-0.007 ppb	91.338 %
Recovery Percentage 1	-1.124 %			10.656 %	-0.695 %	
Concentration RSD	316.3 %	4.4 %	5.0 %	34.4 %	28.4 %	4.7 %

Alpha ICPMSQ2 Data with SRD

3/5/2024 9:03:09 PM

Analysis index: 77
Analysis label: WG1892179-1 6020TL
Analysis started at: 3/5/2024 12:09:43 PM
User name ALPHALAB\a2-icpmsq2
Rack 2
Vial 3
Comment <Comment>

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	91.915 %	93.970 %	0.001 ppb	7.142 ppb	0.751 ppb	1.482 ppb	7.009 ppb	15.643 ppb	80.492 %
Concentration per Run 1	91.537 %	90.167 %	0.004 ppb	8.256 ppb	1.092 ppb	1.605 ppb	3.982 ppb	14.907 ppb	80.699 %
Concentration per Run 2	91.126 %	96.568 %	-0.001 ppb	6.017 ppb	0.259 ppb	1.687 ppb	4.741 ppb	17.266 ppb	79.324 %
Concentration per Run 3	93.082 %	95.176 %	0.002 ppb	7.154 ppb	0.903 ppb	1.155 ppb	12.304 ppb	14.756 ppb	81.452 %
Concentration RSD	1.1 %	3.6 %	194.2 %	15.7 %	58.1 %	19.3 %	65.6 %	9.0 %	1.3 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.017 ppb	1.503 ppb	0.129 ppb	35.913 ppb	0.002 ppb	0.104 ppb	0.199 ppb	0.469 ppb	85.451 %
Concentration per Run 1	0.063 ppb	1.472 ppb	0.118 ppb	35.983 ppb	-0.002 ppb	0.123 ppb	0.203 ppb	0.507 ppb	77.214 %
Concentration per Run 2	0.018 ppb	1.455 ppb	0.095 ppb	36.035 ppb	-0.002 ppb	0.144 ppb	0.223 ppb	0.446 ppb	88.156 %
Concentration per Run 3	-0.031 ppb	1.582 ppb	0.175 ppb	35.723 ppb	0.010 ppb	0.044 ppb	0.170 ppb	0.453 ppb	90.984 %
Concentration RSD	278.8 %	4.6 %	32.0 %	0.5 %	323.0 %	50.6 %	13.6 %	7.1 %	8.5 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.056 ppb	-0.042 ppb	0.017 ppb	0.041 ppb	83.730 %	-0.001 ppb	0.000 ppb	81.334 %	-0.041 ppb
Concentration per Run 1	0.068 ppb	-0.094 ppb	0.017 ppb	0.036 ppb	80.162 %	-0.002 ppb	0.003 ppb	77.233 %	-0.058 ppb
Concentration per Run 2	0.060 ppb	0.045 ppb	0.020 ppb	0.065 ppb	86.193 %	-0.002 ppb	-0.001 ppb	84.245 %	-0.029 ppb
Concentration per Run 3	0.040 ppb	-0.079 ppb	0.015 ppb	0.022 ppb	84.834 %	0.001 ppb	-0.001 ppb	82.522 %	-0.035 ppb
Concentration RSD	26.0 %	179.7 %	13.1 %	54.3 %	3.8 %	159.6 %	684.9 %	4.5 %	37.9 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.139 ppb	82.911 %	82.952 %	0.054 ppb	0.009 ppb	85.242 %
Concentration per Run 1	0.155 ppb	77.073 %	77.227 %	0.031 ppb	-0.006 ppb	83.504 %
Concentration per Run 2	0.153 ppb	86.003 %	85.623 %	0.066 ppb	0.038 ppb	85.731 %
Concentration per Run 3	0.110 ppb	85.657 %	86.004 %	0.065 ppb	-0.006 ppb	86.489 %
Concentration RSD	18.3 %	6.1 %	6.0 %	36.8 %	293.9 %	1.8 %

Alpha ICPMSQ2 Data with SRD

3/5/2024 9:03:09 PM

Analysis index:	78	User name	ALPHALAB\a2-icpmsq2	Comment	FB
Analysis label:	L2411614-09 6020TL	Rack	2		
Analysis started at:	3/5/2024 12:14:11 PM	Vial	10		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	89.393 %	100.371 %	0.003 ppb	-6.638 ppb	0.024 ppb	1.408 ppb	0.638 ppb	9.674 ppb	80.612 %
Concentration per Run 1	89.357 %	96.568 %	0.000 ppb	-6.498 ppb	0.283 ppb	1.567 ppb	12.815 ppb	8.644 ppb	79.973 %
Concentration per Run 2	88.991 %	103.803 %	0.004 ppb	-6.509 ppb	0.187 ppb	1.294 ppb	-9.719 ppb	16.936 ppb	80.512 %
Concentration per Run 3	89.833 %	100.742 %	0.005 ppb	-6.908 ppb	-0.399 ppb	1.364 ppb	-1.182 ppb	3.443 ppb	81.351 %
Concentration RSD	0.5 %	3.6 %	77.7 %	3.5 %	1,549.5 %	10.1 %	1,783.4 %	70.3 %	0.9 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.024 ppb	0.140 ppb	0.026 ppb	1.192 ppb	-0.002 ppb	-0.010 ppb	0.046 ppb	0.429 ppb	83.954 %
Concentration per Run 1	-0.029 ppb	0.126 ppb	-0.030 ppb	1.369 ppb	-0.007 ppb	-0.016 ppb	0.044 ppb	0.431 ppb	82.722 %
Concentration per Run 2	-0.030 ppb	0.118 ppb	0.074 ppb	0.067 ppb	0.007 ppb	0.007 ppb	0.042 ppb	0.369 ppb	84.758 %
Concentration per Run 3	-0.014 ppb	0.175 ppb	0.033 ppb	2.139 ppb	-0.007 ppb	-0.022 ppb	0.052 ppb	0.487 ppb	84.384 %
Concentration RSD	38.3 %	22.3 %	203.7 %	87.9 %	356.7 %	151.7 %	12.0 %	13.7 %	1.3 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.013 ppb	-0.019 ppb	0.018 ppb	0.026 ppb	82.683 %	-0.001 ppb	0.000 ppb	80.418 %	-0.056 ppb
Concentration per Run 1	0.039 ppb	-0.041 ppb	0.013 ppb	0.023 ppb	81.152 %	0.000 ppb	0.003 ppb	76.760 %	-0.064 ppb
Concentration per Run 2	0.004 ppb	-0.032 ppb	0.019 ppb	0.022 ppb	84.709 %	0.000 ppb	-0.001 ppb	82.533 %	-0.067 ppb
Concentration per Run 3	-0.003 ppb	0.017 ppb	0.020 ppb	0.034 ppb	82.189 %	-0.002 ppb	-0.001 ppb	81.962 %	-0.038 ppb
Concentration RSD	172.0 %	169.1 %	21.9 %	25.0 %	2.2 %	84.3 %	685.2 %	4.0 %	28.0 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.000 ppb	80.552 %	80.881 %	0.030 ppb	-0.012 ppb	87.112 %
Concentration per Run 1	-0.010 ppb	77.432 %	78.670 %	0.012 ppb	-0.013 ppb	86.752 %
Concentration per Run 2	0.005 ppb	82.789 %	82.616 %	0.039 ppb	-0.013 ppb	89.346 %
Concentration per Run 3	0.005 ppb	81.434 %	81.357 %	0.038 ppb	-0.010 ppb	85.239 %
Concentration RSD	22,168.1 %	3.5 %	2.5 %	52.7 %	17.5 %	2.4 %

Alpha ICPMSQ2 Data with SRD

3/5/2024 9:03:09 PM

Analysis index:	79	User name	ALPHALAB\a2-icpmsq2	Comment	<Comment>
Analysis label:	WG1892179-2d10 6020TL	Rack	2		
Analysis started at:	3/5/2024 12:18:40 PM	Vial	4		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	93.672 %	101.206 %	5.313 ppb	891.446 ppb	866.099 ppb	182.490 ppb	881.359 ppb	862.240 ppb	83.297 %
Concentration per Run 1	93.795 %	106.030 %	5.364 ppb	826.153 ppb	817.924 ppb	170.997 ppb	835.459 ppb	829.640 ppb	83.589 %
Concentration per Run 2	94.578 %	99.629 %	5.276 ppb	898.966 ppb	858.847 ppb	183.811 ppb	866.954 ppb	796.030 ppb	83.822 %
Concentration per Run 3	92.643 %	97.959 %	5.300 ppb	949.220 ppb	921.527 ppb	192.664 ppb	941.665 ppb	961.051 ppb	82.480 %
Concentration RSD	1.0 %	4.2 %	0.9 %	6.9 %	6.0 %	6.0 %	6.2 %	10.1 %	0.9 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	44.950 ppb	18.318 ppb	45.874 ppb	97.122 ppb	47.776 ppb	49.675 ppb	24.883 ppb	50.262 ppb	82.231 %
Concentration per Run 1	42.718 ppb	17.474 ppb	45.910 ppb	98.934 ppb	46.610 ppb	49.142 ppb	24.002 ppb	49.342 ppb	79.823 %
Concentration per Run 2	44.347 ppb	18.203 ppb	43.886 ppb	84.057 ppb	46.713 ppb	46.974 ppb	24.334 ppb	48.672 ppb	84.954 %
Concentration per Run 3	47.785 ppb	19.277 ppb	47.825 ppb	108.374 ppb	50.003 ppb	52.910 ppb	26.312 ppb	52.774 ppb	81.915 %
Concentration RSD	5.8 %	5.0 %	4.3 %	12.6 %	4.0 %	6.0 %	5.0 %	4.4 %	3.1 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	11.899 ppb	11.780 ppb	92.595 ppb	96.831 ppb	79.351 %	4.771 ppb	5.263 ppb	77.964 %	35.156 ppb
Concentration per Run 1	12.321 ppb	11.304 ppb	88.261 ppb	96.459 ppb	74.739 %	4.837 ppb	5.053 ppb	72.736 %	35.292 ppb
Concentration per Run 2	11.519 ppb	11.915 ppb	92.048 ppb	94.959 ppb	80.209 %	4.676 ppb	5.311 ppb	76.634 %	35.699 ppb
Concentration per Run 3	11.857 ppb	12.120 ppb	97.476 ppb	99.075 ppb	83.104 %	4.799 ppb	5.426 ppb	84.522 %	34.477 ppb
Concentration RSD	3.4 %	3.6 %	5.0 %	2.2 %	5.4 %	1.8 %	3.6 %	7.7 %	1.8 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	184.586 ppb	78.090 %	75.940 %	11.996 ppb	54.376 ppb	84.858 %
Concentration per Run 1	183.224 ppb	74.227 %	72.847 %	12.144 ppb	54.360 ppb	80.820 %
Concentration per Run 2	187.087 ppb	77.789 %	75.441 %	11.663 ppb	54.206 ppb	84.911 %
Concentration per Run 3	183.446 ppb	82.254 %	79.533 %	12.181 ppb	54.563 ppb	88.844 %
Concentration RSD	1.2 %	5.2 %	4.4 %	2.4 %	0.3 %	4.7 %

Alpha ICPMSQ2 Data with SRD

3/5/2024 9:03:09 PM

Analysis index:	80	User name	ALPHALAB\a2-icpmsq2	Comment	<Comment>
Analysis label:	WG1892179-3d10 6020TL	Rack	2		
Analysis started at:	3/5/2024 12:23:08 PM	Vial	6		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	95.460 %	99.443 %	5.163 ppb	2,059.180 ppb	1,307.487 ppb	287.543 ppb	1,231.347 ppb	1,905.919 ppb	84.247 %
Concentration per Run 1	95.760 %	94.341 %	5.035 ppb	2,094.512 ppb	1,312.610 ppb	293.351 ppb	1,256.051 ppb	2,007.065 ppb	84.391 %
Concentration per Run 2	96.404 %	99.351 %	5.151 ppb	2,059.487 ppb	1,313.268 ppb	284.251 ppb	1,245.991 ppb	1,826.910 ppb	85.778 %
Concentration per Run 3	94.216 %	104.638 %	5.305 ppb	2,023.541 ppb	1,296.583 ppb	285.028 ppb	1,191.999 ppb	1,883.782 ppb	82.572 %
Concentration RSD	1.2 %	5.2 %	2.6 %	1.7 %	0.7 %	1.8 %	2.8 %	4.8 %	1.9 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	47.200 ppb	18.827 ppb	49.862 ppb	107.870 ppb	49.282 ppb	50.368 ppb	25.312 ppb	51.778 ppb	90.674 %
Concentration per Run 1	45.558 ppb	18.246 ppb	48.475 ppb	107.722 ppb	48.450 ppb	47.776 ppb	24.463 ppb	49.325 ppb	92.783 %
Concentration per Run 2	48.811 ppb	19.365 ppb	51.366 ppb	103.512 ppb	50.020 ppb	52.585 ppb	25.969 ppb	54.594 ppb	87.261 %
Concentration per Run 3	47.230 ppb	18.869 ppb	49.747 ppb	112.375 ppb	49.376 ppb	50.743 ppb	25.503 ppb	51.414 ppb	91.980 %
Concentration RSD	3.4 %	3.0 %	2.9 %	4.1 %	1.6 %	4.8 %	3.0 %	5.1 %	3.3 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	10.811 ppb	11.885 ppb	102.418 ppb	94.200 ppb	90.936 %	4.768 ppb	5.229 ppb	90.585 %	32.932 ppb
Concentration per Run 1	10.739 ppb	11.352 ppb	100.391 ppb	92.660 ppb	89.246 %	4.752 ppb	5.102 ppb	89.707 %	32.435 ppb
Concentration per Run 2	11.036 ppb	12.541 ppb	104.541 ppb	95.794 ppb	91.016 %	4.843 ppb	5.273 ppb	89.462 %	33.530 ppb
Concentration per Run 3	10.658 ppb	11.762 ppb	102.323 ppb	94.145 ppb	92.546 %	4.711 ppb	5.311 ppb	92.585 %	32.830 ppb
Concentration RSD	1.8 %	5.1 %	2.0 %	1.7 %	1.8 %	1.4 %	2.1 %	1.9 %	1.7 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	192.626 ppb	85.718 %	83.602 %	11.809 ppb	53.651 ppb	96.970 %
Concentration per Run 1	192.800 ppb	84.373 %	81.420 %	11.545 ppb	52.612 ppb	96.673 %
Concentration per Run 2	194.773 ppb	84.794 %	83.831 %	11.834 ppb	53.850 ppb	96.551 %
Concentration per Run 3	190.306 ppb	87.987 %	85.556 %	12.048 ppb	54.491 ppb	97.687 %
Concentration RSD	1.2 %	2.3 %	2.5 %	2.1 %	1.8 %	0.6 %

Alpha ICPMSQ2 Data with SRD

3/5/2024 9:03:09 PM

Analysis index:	81	User name	ALPHALAB\a2-icpmsq2	Comment	<Comment>
Analysis label:	WG1892179-5d10 6020TL	Rack	2		
Analysis started at:	3/5/2024 12:27:36 PM	Vial	8		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	94.759 %	95.733 %	49.427 ppb	5,919.902 ppb	5,242.353 ppb	146.968 ppb	5,058.843 ppb	5,807.774 ppb	85.001 %
Concentration per Run 1	95.166 %	93.785 %	49.472 ppb	5,893.561 ppb	5,282.239 ppb	142.796 ppb	4,867.771 ppb	5,684.374 ppb	86.158 %
Concentration per Run 2	94.200 %	101.577 %	49.827 ppb	5,822.241 ppb	5,098.509 ppb	148.426 ppb	5,320.666 ppb	5,962.024 ppb	84.266 %
Concentration per Run 3	94.910 %	91.837 %	48.982 ppb	6,043.905 ppb	5,346.312 ppb	149.682 ppb	4,988.092 ppb	5,776.925 ppb	84.580 %
Concentration RSD	0.5 %	5.4 %	0.9 %	1.9 %	2.5 %	2.5 %	4.6 %	2.4 %	1.2 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	48.568 ppb	49.018 ppb	50.644 ppb	4,951.922 ppb	50.029 ppb	49.878 ppb	50.182 ppb	52.460 ppb	90.701 %
Concentration per Run 1	48.622 ppb	47.313 ppb	48.879 ppb	4,777.063 ppb	50.139 ppb	48.730 ppb	50.589 ppb	52.127 ppb	89.418 %
Concentration per Run 2	48.083 ppb	50.335 ppb	52.097 ppb	5,158.758 ppb	50.998 ppb	50.193 ppb	50.767 ppb	53.923 ppb	89.453 %
Concentration per Run 3	49.001 ppb	49.407 ppb	50.955 ppb	4,919.946 ppb	48.949 ppb	50.710 ppb	49.189 ppb	51.330 ppb	93.232 %
Concentration RSD	0.9 %	3.2 %	3.2 %	3.9 %	2.1 %	2.1 %	1.7 %	2.5 %	2.4 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	50.018 ppb	51.018 ppb	59.699 ppb	48.755 ppb	88.659 %	0.529 ppb	48.166 ppb	89.962 %	49.423 ppb
Concentration per Run 1	49.463 ppb	48.044 ppb	57.662 ppb	47.983 ppb	87.356 %	0.514 ppb	48.057 ppb	87.709 %	49.302 ppb
Concentration per Run 2	52.016 ppb	55.550 ppb	63.081 ppb	49.885 ppb	90.979 %	0.552 ppb	48.111 ppb	93.099 %	49.810 ppb
Concentration per Run 3	48.576 ppb	49.461 ppb	58.356 ppb	48.397 ppb	87.641 %	0.520 ppb	48.330 ppb	89.077 %	49.157 ppb
Concentration RSD	3.6 %	7.8 %	4.9 %	2.1 %	2.3 %	3.8 %	0.3 %	3.1 %	0.7 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	52.454 ppb	83.852 %	81.647 %	49.788 ppb	51.638 ppb	94.735 %
Concentration per Run 1	51.485 ppb	82.354 %	80.408 %	49.897 ppb	51.042 ppb	92.837 %
Concentration per Run 2	53.218 ppb	86.206 %	84.828 %	49.645 ppb	52.444 ppb	95.274 %
Concentration per Run 3	52.658 ppb	82.998 %	79.707 %	49.823 ppb	51.428 ppb	96.095 %
Concentration RSD	1.7 %	2.5 %	3.4 %	0.3 %	1.4 %	1.8 %

Alpha ICPMSQ2 Data with SRD

3/5/2024 9:03:09 PM

Analysis index: 82
Analysis label: WG1892179-4 6020TL
Analysis started at: 3/5/2024 12:32:04 PM
User name ALPHALAB\a2-icpmsq2
Rack 2
Vial 7
Comment <Comment>

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	96.061 %	103.618 %	0.048 ppb	10,665.004 ppb	3,488.859 ppb	933.580 ppb	2,960.882 ppb	10,471.701 ppb	73.789 %
Concentration per Run 1	95.947 %	109.369 %	0.055 ppb	9,832.863 ppb	3,250.320 ppb	852.734 ppb	2,725.796 ppb	9,718.451 ppb	73.648 %
Concentration per Run 2	95.730 %	107.143 %	0.046 ppb	10,748.790 ppb	3,540.020 ppb	954.711 ppb	3,067.377 ppb	10,653.664 ppb	74.133 %
Concentration per Run 3	96.507 %	94.341 %	0.044 ppb	11,413.359 ppb	3,676.238 ppb	993.294 ppb	3,089.474 ppb	11,042.987 ppb	73.588 %
Concentration RSD	0.4 %	7.8 %	12.1 %	7.4 %	6.2 %	7.8 %	6.9 %	6.5 %	0.4 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.230 ppb	1.819 ppb	16.644 ppb	198.874 ppb	2.175 ppb	4.673 ppb	0.501 ppb	13.610 ppb	92.371 %
Concentration per Run 1	0.224 ppb	1.746 ppb	16.335 ppb	213.931 ppb	2.104 ppb	4.144 ppb	0.609 ppb	13.478 ppb	90.910 %
Concentration per Run 2	0.324 ppb	1.749 ppb	16.947 ppb	196.100 ppb	2.255 ppb	4.862 ppb	0.475 ppb	13.426 ppb	94.038 %
Concentration per Run 3	0.142 ppb	1.961 ppb	16.649 ppb	186.591 ppb	2.166 ppb	5.014 ppb	0.419 ppb	13.926 ppb	92.167 %
Concentration RSD	39.5 %	6.8 %	1.8 %	7.0 %	3.5 %	9.9 %	19.4 %	2.0 %	1.7 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.329 ppb	1.934 ppb	88.632 ppb	0.208 ppb	87.770 %	0.000 ppb	0.047 ppb	87.190 %	0.240 ppb
Concentration per Run 1	0.399 ppb	1.927 ppb	85.424 ppb	0.138 ppb	87.623 %	-0.002 ppb	0.054 ppb	86.326 %	0.243 ppb
Concentration per Run 2	0.304 ppb	2.229 ppb	92.534 ppb	0.229 ppb	89.176 %	0.002 ppb	0.042 ppb	90.073 %	0.249 ppb
Concentration per Run 3	0.283 ppb	1.646 ppb	87.938 ppb	0.257 ppb	86.511 %	0.000 ppb	0.044 ppb	85.170 %	0.226 ppb
Concentration RSD	18.7 %	15.1 %	4.1 %	29.8 %	1.5 %	1,143.2 %	13.4 %	2.9 %	5.0 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	47.001 ppb	74.412 %	71.484 %	0.326 ppb	0.136 ppb	94.796 %
Concentration per Run 1	46.440 ppb	73.704 %	69.145 %	0.262 ppb	0.143 ppb	94.160 %
Concentration per Run 2	46.611 ppb	74.828 %	73.895 %	0.409 ppb	0.131 ppb	94.390 %
Concentration per Run 3	47.950 ppb	74.705 %	71.412 %	0.308 ppb	0.135 ppb	95.837 %
Concentration RSD	1.8 %	0.8 %	3.3 %	22.9 %	4.4 %	1.0 %

Alpha ICPMSQ2 Data with SRD

3/5/2024 9:03:09 PM

Analysis index:	83	User name	ALPHALAB\a2-icpmsq2	Comment	<Comment>
Analysis label:	L2411174-04 6020TL	Rack	2		
Analysis started at:	3/5/2024 12:36:32 PM	Vial	5		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	91.702 %	101.948 %	0.063 ppb	10,369.251 ppb	3,483.459 ppb	850.719 ppb	2,944.959 ppb	10,139.247 ppb	67.251 %
Concentration per Run 1	90.967 %	99.907 %	0.065 ppb	10,740.346 ppb	3,584.813 ppb	869.436 ppb	2,991.322 ppb	10,164.428 ppb	67.449 %
Concentration per Run 2	92.689 %	101.299 %	0.062 ppb	9,966.350 ppb	3,415.732 ppb	828.113 ppb	2,886.552 ppb	10,253.661 ppb	68.132 %
Concentration per Run 3	91.451 %	104.638 %	0.062 ppb	10,401.057 ppb	3,449.832 ppb	854.609 ppb	2,957.005 ppb	9,999.652 ppb	66.171 %
Concentration RSD	1.0 %	2.4 %	3.1 %	3.7 %	2.6 %	2.5 %	1.8 %	1.3 %	1.5 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.261 ppb	1.658 ppb	17.641 ppb	198.213 ppb	2.355 ppb	4.755 ppb	0.550 ppb	13.325 ppb	86.829 %
Concentration per Run 1	0.261 ppb	1.704 ppb	17.600 ppb	208.465 ppb	2.384 ppb	4.482 ppb	0.600 ppb	13.620 ppb	92.301 %
Concentration per Run 2	0.214 ppb	1.616 ppb	17.232 ppb	149.358 ppb	2.330 ppb	4.573 ppb	0.421 ppb	12.899 ppb	84.205 %
Concentration per Run 3	0.307 ppb	1.653 ppb	18.091 ppb	236.816 ppb	2.350 ppb	5.211 ppb	0.628 ppb	13.456 ppb	83.982 %
Concentration RSD	17.9 %	2.7 %	2.4 %	22.5 %	1.2 %	8.4 %	20.4 %	2.8 %	5.5 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.280 ppb	1.359 ppb	89.952 ppb	0.119 ppb	80.933 %	0.002 ppb	0.038 ppb	82.790 %	0.129 ppb
Concentration per Run 1	0.305 ppb	1.830 ppb	88.059 ppb	0.097 ppb	85.542 %	0.001 ppb	0.041 ppb	85.216 %	0.134 ppb
Concentration per Run 2	0.274 ppb	0.994 ppb	89.927 ppb	0.141 ppb	78.816 %	0.002 ppb	0.047 ppb	80.736 %	0.115 ppb
Concentration per Run 3	0.259 ppb	1.253 ppb	91.869 ppb	0.118 ppb	78.442 %	0.002 ppb	0.025 ppb	82.418 %	0.138 ppb
Concentration RSD	8.3 %	31.5 %	2.1 %	18.5 %	4.9 %	50.3 %	30.9 %	2.7 %	9.6 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	45.817 ppb	69.835 %	66.349 %	0.126 ppb	0.116 ppb	88.073 %
Concentration per Run 1	47.080 ppb	74.046 %	69.292 %	0.089 ppb	0.121 ppb	94.282 %
Concentration per Run 2	45.414 ppb	66.661 %	63.282 %	0.154 ppb	0.104 ppb	82.748 %
Concentration per Run 3	44.956 ppb	68.798 %	66.473 %	0.136 ppb	0.122 ppb	87.189 %
Concentration RSD	2.4 %	5.4 %	4.5 %	26.3 %	8.8 %	6.6 %

Alpha ICPMSQ2 Data with SRD

3/5/2024 9:03:09 PM

Analysis index:	84	User name	ALPHALAB\a2-icpmsq2	Comment	<Comment>
Analysis label:	WG1892179-6d5 6020TL	Rack	2		
Analysis started at:	3/5/2024 12:41:00 PM	Vial	9		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	92.471 %	96.753 %	0.013 ppb	2,218.519 ppb	746.261 ppb	195.912 ppb	615.801 ppb	2,180.203 ppb	75.631 %
Concentration per Run 1	92.567 %	92.672 %	0.011 ppb	2,301.147 ppb	760.154 ppb	186.608 ppb	641.975 ppb	2,142.483 ppb	75.684 %
Concentration per Run 2	92.269 %	98.516 %	0.015 ppb	2,114.884 ppb	698.352 ppb	189.592 ppb	577.674 ppb	2,092.217 ppb	75.272 %
Concentration per Run 3	92.577 %	99.072 %	0.013 ppb	2,239.527 ppb	780.278 ppb	211.535 ppb	627.754 ppb	2,305.909 ppb	75.938 %
Concentration RSD	0.2 %	3.7 %	16.4 %	4.3 %	5.7 %	6.9 %	5.5 %	5.1 %	0.4 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.090 ppb	0.311 ppb	3.512 ppb	38.867 ppb	0.461 ppb	0.920 ppb	0.190 ppb	2.963 ppb	86.165 %
Concentration per Run 1	0.092 ppb	0.304 ppb	3.468 ppb	59.308 ppb	0.472 ppb	0.888 ppb	0.242 ppb	3.208 ppb	81.704 %
Concentration per Run 2	0.117 ppb	0.322 ppb	3.272 ppb	33.779 ppb	0.396 ppb	0.850 ppb	0.150 ppb	2.895 ppb	85.507 %
Concentration per Run 3	0.062 ppb	0.309 ppb	3.796 ppb	23.514 ppb	0.514 ppb	1.020 ppb	0.177 ppb	2.786 ppb	91.283 %
Concentration RSD	30.2 %	2.9 %	7.5 %	47.4 %	13.0 %	9.7 %	24.9 %	7.4 %	5.6 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.126 ppb	0.417 ppb	18.310 ppb	0.033 ppb	83.212 %	0.001 ppb	0.010 ppb	82.851 %	0.025 ppb
Concentration per Run 1	0.123 ppb	0.409 ppb	18.500 ppb	0.023 ppb	80.401 %	-0.002 ppb	0.010 ppb	78.417 %	0.005 ppb
Concentration per Run 2	0.135 ppb	0.322 ppb	17.661 ppb	0.034 ppb	81.719 %	0.002 ppb	0.010 ppb	80.829 %	0.031 ppb
Concentration per Run 3	0.119 ppb	0.521 ppb	18.770 ppb	0.043 ppb	87.516 %	0.002 ppb	0.009 ppb	89.305 %	0.038 ppb
Concentration RSD	6.8 %	24.0 %	3.2 %	28.9 %	4.5 %	289.2 %	6.5 %	6.9 %	71.9 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	9.113 ppb	79.063 %	78.239 %	0.049 ppb	0.028 ppb	84.430 %
Concentration per Run 1	9.604 ppb	75.074 %	74.406 %	0.033 ppb	0.019 ppb	82.214 %
Concentration per Run 2	8.227 ppb	78.238 %	75.479 %	0.055 ppb	0.032 ppb	82.635 %
Concentration per Run 3	9.508 ppb	83.876 %	84.831 %	0.061 ppb	0.032 ppb	88.442 %
Concentration RSD	8.4 %	5.6 %	7.3 %	29.0 %	26.3 %	4.1 %

Alpha ICPMSQ2 Data with SRD

3/5/2024 9:03:09 PM

Analysis index:	85	User name	ALPHALAB\a2-icpmsq2	Comment	<Comment>
Analysis label:	CCV	Rack	0		
Analysis started at:	3/5/2024 12:45:34 PM	Vial	9		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	92.676 %	99.443 %	61.341 ppb	5,576.405 ppb	5,652.185 ppb	58.922 ppb	5,633.673 ppb	5,840.486 ppb	83.769 %
Concentration per Run 1	91.865 %	98.237 %	61.552 ppb	5,398.306 ppb	5,446.061 ppb	53.401 ppb	5,407.517 ppb	5,548.788 ppb	83.638 %
Concentration per Run 2	93.074 %	100.464 %	61.251 ppb	5,518.745 ppb	5,510.046 ppb	59.272 ppb	5,522.788 ppb	6,054.269 ppb	83.022 %
Concentration per Run 3	93.090 %	99.629 %	61.220 ppb	5,812.163 ppb	6,000.449 ppb	64.093 ppb	5,970.714 ppb	5,918.400 ppb	84.646 %
Recovery Percentage 1			102.235 %	92.940 %	94.203 %	98.203 %	93.895 %	97.341 %	
Concentration RSD	0.8 %	1.1 %	0.3 %	3.8 %	5.4 %	9.1 %	5.3 %	4.5 %	1.0 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	57.535 ppb	58.470 ppb	58.310 ppb	5,906.046 ppb	59.041 ppb	60.461 ppb	60.188 ppb	61.552 ppb	88.868 %
Concentration per Run 1	56.801 ppb	57.831 ppb	56.965 ppb	5,853.278 ppb	59.330 ppb	60.261 ppb	59.657 ppb	60.830 ppb	88.006 %
Concentration per Run 2	58.637 ppb	60.090 ppb	58.090 ppb	5,938.385 ppb	59.904 ppb	61.165 ppb	61.526 ppb	63.278 ppb	83.601 %
Concentration per Run 3	57.168 ppb	57.490 ppb	59.876 ppb	5,926.475 ppb	57.890 ppb	59.957 ppb	59.379 ppb	60.549 ppb	94.997 %
Recovery Percentage 1	95.892 %	97.450 %	97.184 %	98.434 %	98.402 %	100.769 %	100.313 %	102.587 %	
Concentration RSD	1.7 %	2.4 %	2.5 %	0.8 %	1.8 %	1.0 %	1.9 %	2.4 %	6.5 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	60.286 ppb	60.775 ppb	59.312 ppb	59.299 ppb	85.397 %	60.401 ppb	60.819 ppb	85.006 %	56.689 ppb
Concentration per Run 1	58.152 ppb	57.157 ppb	57.166 ppb	57.454 ppb	83.866 %	60.857 ppb	60.120 ppb	80.417 %	57.386 ppb
Concentration per Run 2	63.145 ppb	61.846 ppb	59.480 ppb	59.863 ppb	85.443 %	59.952 ppb	61.397 ppb	83.539 %	56.891 ppb
Concentration per Run 3	59.560 ppb	63.324 ppb	61.290 ppb	60.581 ppb	86.882 %	60.393 ppb	60.940 ppb	91.064 %	55.789 ppb
Recovery Percentage 1	100.476 %	101.292 %	98.853 %	98.832 %		100.668 %	101.365 %		94.481 %
Concentration RSD	4.3 %	5.3 %	3.5 %	2.8 %	1.8 %	0.7 %	1.1 %	6.4 %	1.4 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	58.615 ppb	79.444 %	77.156 %	62.367 ppb	63.433 ppb	88.829 %
Concentration per Run 1	59.627 ppb	77.404 %	73.835 %	62.429 ppb	63.129 ppb	86.860 %
Concentration per Run 2	58.840 ppb	79.334 %	76.917 %	62.735 ppb	63.825 ppb	87.709 %
Concentration per Run 3	57.377 ppb	81.593 %	80.716 %	61.936 ppb	63.345 ppb	91.917 %
Recovery Percentage 1	97.691 %			103.944 %	105.721 %	
Concentration RSD	1.9 %	2.6 %	4.5 %	0.6 %	0.6 %	3.0 %

Alpha ICPMSQ2 Data with SRD

3/5/2024 9:03:09 PM

Analysis index: 86 User name ALPHALAB\a2-icpmsq2 Comment <Comment>
Analysis label: CCB Rack 0
Analysis started at: 3/5/2024 12:50:05 PM Vial 10

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	92.215 %	93.970 %	0.005 ppb	-9.250 ppb	-0.919 ppb	-0.646 ppb	-1.538 ppb	-2.484 ppb	83.571 %
Concentration per Run 1	91.649 %	88.497 %	0.003 ppb	-8.390 ppb	-1.335 ppb	-0.149 ppb	0.854 ppb	-2.983 ppb	84.160 %
Concentration per Run 2	92.721 %	92.950 %	0.009 ppb	-11.043 ppb	-1.007 ppb	-0.690 ppb	-9.036 ppb	-0.942 ppb	83.457 %
Concentration per Run 3	92.277 %	100.464 %	0.003 ppb	-8.318 ppb	-0.416 ppb	-1.098 ppb	3.568 ppb	-3.528 ppb	83.096 %
Recovery Percentage 1			0.962 %	-9.250 %	-1.313 %	-6.458 %	-1.538 %	-2.484 %	
Concentration RSD	0.6 %	6.4 %	77.7 %	16.8 %	50.6 %	73.8 %	431.4 %	54.9 %	0.6 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.035 ppb	-0.029 ppb	-0.009 ppb	3.895 ppb	0.002 ppb	0.070 ppb	-0.005 ppb	0.133 ppb	87.322 %
Concentration per Run 1	0.025 ppb	-0.038 ppb	0.018 ppb	4.054 ppb	-0.002 ppb	0.091 ppb	-0.016 ppb	0.079 ppb	81.944 %
Concentration per Run 2	0.019 ppb	-0.012 ppb	-0.011 ppb	3.337 ppb	0.002 ppb	0.022 ppb	0.021 ppb	0.105 ppb	88.110 %
Concentration per Run 3	0.061 ppb	-0.038 ppb	-0.035 ppb	4.295 ppb	0.006 ppb	0.098 ppb	-0.019 ppb	0.217 ppb	91.914 %
Recovery Percentage 1	0.698 %	-2.920 %	-0.931 %	7.790 %	0.425 %	3.522 %	-0.458 %	2.668 %	
Concentration RSD	65.3 %	49.5 %	288.4 %	12.8 %	184.0 %	59.9 %	486.8 %	54.9 %	5.8 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.107 ppb	0.110 ppb	0.000 ppb	0.117 ppb	84.755 %	0.003 ppb	0.003 ppb	86.446 %	0.085 ppb
Concentration per Run 1	0.106 ppb	0.042 ppb	0.000 ppb	0.081 ppb	80.977 %	0.001 ppb	0.006 ppb	80.296 %	0.073 ppb
Concentration per Run 2	0.090 ppb	0.164 ppb	0.002 ppb	0.120 ppb	86.035 %	0.005 ppb	-0.001 ppb	86.247 %	0.073 ppb
Concentration per Run 3	0.125 ppb	0.124 ppb	-0.001 ppb	0.149 ppb	87.252 %	0.004 ppb	0.002 ppb	92.794 %	0.109 ppb
Recovery Percentage 1	21.368 %	2.199 %	0.003 %	5.831 %		0.774 %	1.300 %		2.132 %
Concentration RSD	16.4 %	56.6 %	444.7 %	29.2 %	3.9 %	68.5 %	142.1 %	7.2 %	24.4 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	-0.016 ppb	85.327 %	86.332 %	0.251 ppb	0.002 ppb	90.347 %
Concentration per Run 1	-0.010 ppb	79.561 %	80.458 %	0.189 ppb	0.002 ppb	86.971 %
Concentration per Run 2	-0.011 ppb	86.270 %	84.259 %	0.310 ppb	0.001 ppb	91.250 %
Concentration per Run 3	-0.026 ppb	90.148 %	94.280 %	0.253 ppb	0.004 ppb	92.821 %
Recovery Percentage 1	-3.176 %			25.075 %	0.196 %	
Concentration RSD	55.9 %	6.3 %	8.3 %	24.1 %	78.8 %	3.4 %

Alpha ICPMSQ2 Data with SRD

3/5/2024 9:03:09 PM

Analysis index:	87	User name	ALPHALAB\a2-icpmsq2	Comment	<Comment>
Analysis label:	L2410579-10 6020TL	Rack	1		
Analysis started at:	3/5/2024 12:58:40 PM	Vial	56		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	91.670 %	98.887 %	0.003 ppb	14.057 ppb	1.400 ppb	9.203 ppb	78.007 ppb	102.561 ppb	86.220 %
Concentration per Run 1	91.918 %	90.445 %	-0.001 ppb	18.539 ppb	1.730 ppb	10.863 ppb	85.229 ppb	123.223 ppb	87.495 %
Concentration per Run 2	92.314 %	105.751 %	0.003 ppb	10.671 ppb	0.436 ppb	7.149 ppb	71.609 ppb	70.465 ppb	86.502 %
Concentration per Run 3	90.778 %	100.464 %	0.005 ppb	12.963 ppb	2.034 ppb	9.598 ppb	77.184 ppb	113.996 ppb	84.662 %
Concentration RSD	0.9 %	7.9 %	112.9 %	28.8 %	60.6 %	20.5 %	8.8 %	27.5 %	1.7 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.017 ppb	0.374 ppb	0.704 ppb	7.916 ppb	0.019 ppb	0.277 ppb	0.115 ppb	1.117 ppb	88.425 %
Concentration per Run 1	0.006 ppb	0.426 ppb	0.699 ppb	7.467 ppb	0.003 ppb	0.321 ppb	0.159 ppb	1.252 ppb	82.363 %
Concentration per Run 2	-0.017 ppb	0.305 ppb	0.753 ppb	8.878 ppb	0.031 ppb	0.216 ppb	0.083 ppb	1.012 ppb	91.089 %
Concentration per Run 3	0.061 ppb	0.392 ppb	0.659 ppb	7.404 ppb	0.023 ppb	0.293 ppb	0.102 ppb	1.086 ppb	91.822 %
Concentration RSD	235.5 %	16.7 %	6.7 %	10.5 %	76.9 %	19.7 %	34.4 %	11.0 %	6.0 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.021 ppb	0.091 ppb	0.243 ppb	0.043 ppb	85.737 %	0.001 ppb	0.005 ppb	83.599 %	-0.009 ppb
Concentration per Run 1	0.008 ppb	0.089 ppb	0.240 ppb	0.046 ppb	81.516 %	0.001 ppb	0.007 ppb	78.331 %	-0.007 ppb
Concentration per Run 2	0.010 ppb	0.139 ppb	0.236 ppb	0.022 ppb	85.577 %	0.001 ppb	0.003 ppb	84.126 %	-0.014 ppb
Concentration per Run 3	0.045 ppb	0.045 ppb	0.254 ppb	0.062 ppb	90.117 %	0.002 ppb	0.006 ppb	88.340 %	-0.005 ppb
Concentration RSD	100.4 %	51.9 %	3.8 %	47.3 %	5.0 %	50.5 %	42.5 %	6.0 %	48.4 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.095 ppb	84.789 %	85.231 %	0.052 ppb	0.006 ppb	89.977 %
Concentration per Run 1	0.103 ppb	79.462 %	79.313 %	0.042 ppb	0.007 ppb	84.648 %
Concentration per Run 2	0.110 ppb	84.692 %	85.340 %	0.054 ppb	0.010 ppb	86.734 %
Concentration per Run 3	0.074 ppb	90.212 %	91.040 %	0.059 ppb	0.001 ppb	98.549 %
Concentration RSD	20.0 %	6.3 %	6.9 %	16.8 %	74.2 %	8.3 %

Alpha ICPMSQ2 Data with SRD

3/5/2024 9:03:09 PM

Analysis index:	88	User name	ALPHALAB\a2-icpmsq2	Comment	<Comment>
Analysis label:	L2410579-02d10 6020TL	Rack	2		
Analysis started at:	3/5/2024 1:03:08 PM	Vial	11		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	93.200 %	100.742 %	0.000 ppb	619.310 ppb	578.823 ppb	-0.189 ppb	1,084.804 ppb	6,694.267 ppb	78.972 %
Concentration per Run 1	92.810 %	101.020 %	-0.002 ppb	622.146 ppb	588.913 ppb	0.206 ppb	1,100.170 ppb	6,724.609 ppb	79.668 %
Concentration per Run 2	93.070 %	108.256 %	0.003 ppb	581.170 ppb	562.058 ppb	-0.296 ppb	1,054.301 ppb	6,371.488 ppb	78.974 %
Concentration per Run 3	93.720 %	92.950 %	-0.002 ppb	654.613 ppb	585.498 ppb	-0.478 ppb	1,099.941 ppb	6,986.705 ppb	78.275 %
Concentration RSD	0.5 %	7.6 %	656.0 %	5.9 %	2.5 %	187.1 %	2.4 %	4.6 %	0.9 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.012 ppb	0.129 ppb	0.011 ppb	4.019 ppb	0.038 ppb	0.052 ppb	0.205 ppb	0.155 ppb	84.888 %
Concentration per Run 1	-0.015 ppb	0.094 ppb	0.030 ppb	2.070 ppb	0.058 ppb	0.081 ppb	0.176 ppb	0.127 ppb	87.152 %
Concentration per Run 2	0.062 ppb	0.143 ppb	-0.014 ppb	6.389 ppb	0.023 ppb	-0.015 ppb	0.204 ppb	0.181 ppb	86.599 %
Concentration per Run 3	-0.011 ppb	0.151 ppb	0.017 ppb	3.599 ppb	0.031 ppb	0.091 ppb	0.234 ppb	0.157 ppb	80.912 %
Concentration RSD	351.1 %	24.0 %	198.3 %	54.5 %	49.1 %	111.0 %	14.3 %	17.5 %	4.1 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.107 ppb	0.147 ppb	29.588 ppb	0.611 ppb	86.101 %	-0.001 ppb	0.000 ppb	84.036 %	-0.013 ppb
Concentration per Run 1	0.069 ppb	0.080 ppb	28.973 ppb	0.563 ppb	84.601 %	0.001 ppb	-0.001 ppb	81.415 %	-0.020 ppb
Concentration per Run 2	0.086 ppb	0.165 ppb	29.326 ppb	0.696 ppb	86.753 %	-0.002 ppb	0.003 ppb	83.841 %	0.013 ppb
Concentration per Run 3	0.165 ppb	0.196 ppb	30.465 ppb	0.575 ppb	86.948 %	-0.002 ppb	-0.001 ppb	86.853 %	-0.033 ppb
Concentration RSD	48.1 %	41.0 %	2.6 %	12.0 %	1.5 %	161.5 %	912.3 %	3.2 %	174.3 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	2.976 ppb	81.214 %	79.378 %	0.034 ppb	0.004 ppb	89.874 %
Concentration per Run 1	3.132 ppb	79.687 %	78.065 %	0.015 ppb	0.002 ppb	87.805 %
Concentration per Run 2	2.634 ppb	81.593 %	80.139 %	0.044 ppb	0.010 ppb	89.703 %
Concentration per Run 3	3.161 ppb	82.363 %	79.932 %	0.043 ppb	0.000 ppb	92.112 %
Concentration RSD	10.0 %	1.7 %	1.4 %	48.6 %	140.5 %	2.4 %

Alpha ICPMSQ2 Data with SRD

3/5/2024 9:03:09 PM

Analysis index: 89
Analysis label: L2410579-03d10 6020TL
Analysis started at: 3/5/2024 1:07:38 PM
User name ALPHALAB\a2-icpmsq2
Rack 2
Vial 12
Comment <Comment>

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	94.944 %	96.475 %	0.003 ppb	1,250.411 ppb	896.457 ppb	0.085 ppb	1,978.854 ppb	10,080.260 ppb	75.588 %
Concentration per Run 1	95.124 %	94.620 %	0.003 ppb	1,332.942 ppb	940.456 ppb	0.085 ppb	2,202.259 ppb	10,737.737 ppb	77.067 %
Concentration per Run 2	95.164 %	91.837 %	0.002 ppb	1,280.449 ppb	937.712 ppb	-0.035 ppb	1,985.936 ppb	10,019.882 ppb	75.170 %
Concentration per Run 3	94.545 %	102.968 %	0.003 ppb	1,137.842 ppb	811.204 ppb	0.205 ppb	1,748.366 ppb	9,483.161 ppb	74.527 %
Concentration RSD	0.4 %	6.0 %	15.8 %	8.1 %	8.2 %	141.7 %	11.5 %	6.2 %	1.7 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.110 ppb	0.230 ppb	0.122 ppb	3.302 ppb	0.054 ppb	0.072 ppb	0.227 ppb	0.127 ppb	87.766 %
Concentration per Run 1	0.048 ppb	0.228 ppb	0.214 ppb	3.569 ppb	0.061 ppb	0.086 ppb	0.269 ppb	0.127 ppb	92.421 %
Concentration per Run 2	0.134 ppb	0.250 ppb	0.098 ppb	3.764 ppb	0.055 ppb	0.086 ppb	0.216 ppb	0.100 ppb	87.976 %
Concentration per Run 3	0.150 ppb	0.213 ppb	0.056 ppb	2.572 ppb	0.047 ppb	0.044 ppb	0.194 ppb	0.154 ppb	82.902 %
Concentration RSD	49.8 %	8.2 %	66.9 %	19.4 %	12.6 %	33.5 %	17.0 %	21.3 %	5.4 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.070 ppb	0.042 ppb	46.823 ppb	0.239 ppb	86.442 %	0.000 ppb	0.003 ppb	85.290 %	-0.005 ppb
Concentration per Run 1	0.088 ppb	0.079 ppb	49.336 ppb	0.261 ppb	84.359 %	0.000 ppb	0.003 ppb	85.474 %	-0.022 ppb
Concentration per Run 2	0.060 ppb	0.040 ppb	45.440 ppb	0.227 ppb	86.822 %	0.001 ppb	0.003 ppb	84.063 %	0.002 ppb
Concentration per Run 3	0.062 ppb	0.005 ppb	45.693 ppb	0.228 ppb	88.144 %	0.000 ppb	0.002 ppb	86.332 %	0.005 ppb
Concentration RSD	21.9 %	89.0 %	4.7 %	8.1 %	2.2 %	650.5 %	1.7 %	1.3 %	291.5 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	9.689 ppb	79.595 %	78.615 %	0.038 ppb	0.006 ppb	87.797 %
Concentration per Run 1	10.221 ppb	76.157 %	76.256 %	0.018 ppb	0.006 ppb	86.959 %
Concentration per Run 2	9.894 ppb	79.812 %	78.476 %	0.053 ppb	0.013 ppb	86.630 %
Concentration per Run 3	8.953 ppb	82.817 %	81.114 %	0.045 ppb	-0.001 ppb	89.802 %
Concentration RSD	6.8 %	4.2 %	3.1 %	47.5 %	120.7 %	2.0 %

Alpha ICPMSQ2 Data with SRD

3/5/2024 9:03:09 PM

Analysis index:	90	User name	ALPHALAB\a2-icpmsq2	Comment	<Comment>
Analysis label:	L2410579-05d10 6020TL	Rack	2		
Analysis started at:	3/5/2024 1:12:07 PM	Vial	13		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	93.569 %	98.794 %	0.001 ppb	4,982.729 ppb	1,124.432 ppb	0.558 ppb	124.068 ppb	1,826.284 ppb	84.827 %
Concentration per Run 1	93.214 %	104.082 %	0.001 ppb	4,933.438 ppb	1,117.932 ppb	0.680 ppb	120.962 ppb	1,928.258 ppb	84.910 %
Concentration per Run 2	93.666 %	97.403 %	0.002 ppb	4,946.497 ppb	1,091.717 ppb	0.520 ppb	113.624 ppb	1,829.375 ppb	84.389 %
Concentration per Run 3	93.827 %	94.898 %	-0.001 ppb	5,068.250 ppb	1,163.645 ppb	0.475 ppb	137.619 ppb	1,721.219 ppb	85.182 %
Concentration RSD	0.3 %	4.8 %	193.7 %	1.5 %	3.2 %	19.3 %	9.9 %	5.7 %	0.5 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.045 ppb	0.078 ppb	0.188 ppb	1.689 ppb	0.001 ppb	0.037 ppb	0.060 ppb	0.234 ppb	86.933 %
Concentration per Run 1	0.017 ppb	0.115 ppb	0.199 ppb	1.665 ppb	-0.002 ppb	0.019 ppb	0.080 ppb	0.200 ppb	86.254 %
Concentration per Run 2	0.066 ppb	0.055 ppb	0.202 ppb	1.278 ppb	-0.002 ppb	0.020 ppb	0.050 ppb	0.288 ppb	87.571 %
Concentration per Run 3	0.052 ppb	0.066 ppb	0.162 ppb	2.123 ppb	0.007 ppb	0.071 ppb	0.051 ppb	0.213 ppb	86.973 %
Concentration RSD	56.5 %	41.2 %	11.7 %	25.0 %	661.1 %	79.6 %	27.8 %	20.2 %	0.8 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.014 ppb	0.007 ppb	9.476 ppb	0.011 ppb	87.456 %	0.001 ppb	0.004 ppb	86.246 %	-0.072 ppb
Concentration per Run 1	0.025 ppb	0.018 ppb	10.273 ppb	0.000 ppb	89.550 %	0.002 ppb	0.006 ppb	90.907 %	-0.074 ppb
Concentration per Run 2	0.000 ppb	-0.039 ppb	9.316 ppb	0.011 ppb	87.460 %	-0.002 ppb	0.002 ppb	86.477 %	-0.082 ppb
Concentration per Run 3	0.016 ppb	0.042 ppb	8.840 ppb	0.022 ppb	85.359 %	0.002 ppb	0.003 ppb	81.355 %	-0.059 ppb
Concentration RSD	93.2 %	591.2 %	7.7 %	100.7 %	2.4 %	308.4 %	49.4 %	5.5 %	15.8 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	5.750 ppb	86.516 %	84.435 %	0.019 ppb	0.010 ppb	92.135 %
Concentration per Run 1	5.482 ppb	89.224 %	86.915 %	0.008 ppb	0.014 ppb	92.471 %
Concentration per Run 2	6.253 ppb	87.339 %	85.639 %	0.025 ppb	0.008 ppb	93.255 %
Concentration per Run 3	5.516 ppb	82.985 %	80.751 %	0.024 ppb	0.008 ppb	90.679 %
Concentration RSD	7.6 %	3.7 %	3.9 %	50.3 %	30.2 %	1.4 %

Alpha ICPMSQ2 Data with SRD

3/5/2024 9:03:09 PM

Analysis index:	91	User name	ALPHALAB\a2-icpmsq2	Comment	<Comment>
Analysis label:	L2410579-06d10 6020TL	Rack	2		
Analysis started at:	3/5/2024 1:16:36 PM	Vial	14		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	94.392 %	107.328 %	0.001 ppb	2,861.708 ppb	2,170.631 ppb	1.272 ppb	3,812.564 ppb	9,758.272 ppb	80.223 %
Concentration per Run 1	94.275 %	105.195 %	0.002 ppb	2,929.205 ppb	2,226.993 ppb	0.865 ppb	3,911.100 ppb	9,887.433 ppb	78.995 %
Concentration per Run 2	94.598 %	108.813 %	0.000 ppb	2,775.164 ppb	2,103.032 ppb	2.176 ppb	3,789.637 ppb	9,882.404 ppb	80.407 %
Concentration per Run 3	94.301 %	107.978 %	0.002 ppb	2,880.755 ppb	2,181.868 ppb	0.775 ppb	3,736.955 ppb	9,504.978 ppb	81.268 %
Concentration RSD	0.2 %	1.8 %	87.0 %	2.8 %	2.9 %	61.7 %	2.3 %	2.2 %	1.4 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.098 ppb	0.003 ppb	376.861 ppb	4.882 ppb	0.057 ppb	0.133 ppb	0.201 ppb	0.220 ppb	88.310 %
Concentration per Run 1	0.059 ppb	-0.009 ppb	376.729 ppb	3.829 ppb	0.080 ppb	0.211 ppb	0.274 ppb	0.208 ppb	92.481 %
Concentration per Run 2	0.141 ppb	0.007 ppb	372.605 ppb	4.454 ppb	0.050 ppb	0.127 ppb	0.109 ppb	0.168 ppb	85.296 %
Concentration per Run 3	0.093 ppb	0.011 ppb	381.249 ppb	6.362 ppb	0.040 ppb	0.061 ppb	0.221 ppb	0.284 ppb	87.152 %
Concentration RSD	42.7 %	322.7 %	1.1 %	27.0 %	36.3 %	56.5 %	41.8 %	26.8 %	4.2 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.098 ppb	-0.050 ppb	22.500 ppb	0.022 ppb	87.074 %	0.000 ppb	0.012 ppb	86.333 %	-0.073 ppb
Concentration per Run 1	0.051 ppb	-0.090 ppb	22.748 ppb	0.021 ppb	86.752 %	0.001 ppb	0.002 ppb	87.243 %	-0.079 ppb
Concentration per Run 2	0.112 ppb	-0.030 ppb	22.127 ppb	0.022 ppb	87.239 %	0.000 ppb	0.016 ppb	85.738 %	-0.077 ppb
Concentration per Run 3	0.130 ppb	-0.029 ppb	22.626 ppb	0.022 ppb	87.230 %	-0.002 ppb	0.016 ppb	86.017 %	-0.062 ppb
Concentration RSD	42.2 %	70.7 %	1.5 %	1.0 %	0.3 %	228.9 %	68.3 %	0.9 %	12.5 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	7.801 ppb	79.995 %	78.905 %	0.029 ppb	0.007 ppb	90.391 %
Concentration per Run 1	8.298 ppb	78.719 %	78.435 %	0.017 ppb	0.008 ppb	89.950 %
Concentration per Run 2	7.615 ppb	80.732 %	78.153 %	0.036 ppb	0.005 ppb	89.941 %
Concentration per Run 3	7.489 ppb	80.534 %	80.126 %	0.035 ppb	0.009 ppb	91.283 %
Concentration RSD	5.6 %	1.4 %	1.4 %	37.3 %	26.5 %	0.9 %

Alpha ICPMSQ2 Data with SRD

3/5/2024 9:03:09 PM

Analysis index:	92	User name	ALPHALAB\a2-icpmsq2	Comment	<Comment>
Analysis label:	L2410579-07d10 6020TL	Rack	2		
Analysis started at:	3/5/2024 1:21:04 PM	Vial	15		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	96.204 %	105.473 %	0.002 ppb	1,687.971 ppb	952.067 ppb	-0.365 ppb	943.809 ppb	9,333.152 ppb	83.210 %
Concentration per Run 1	96.896 %	105.473 %	0.002 ppb	1,708.268 ppb	962.840 ppb	-0.710 ppb	987.169 ppb	9,525.596 ppb	83.667 %
Concentration per Run 2	96.226 %	101.855 %	0.000 ppb	1,723.494 ppb	981.677 ppb	-0.201 ppb	962.634 ppb	9,271.924 ppb	84.217 %
Concentration per Run 3	95.491 %	109.091 %	0.004 ppb	1,632.151 ppb	911.684 ppb	-0.184 ppb	881.625 ppb	9,201.937 ppb	81.747 %
Concentration RSD	0.7 %	3.4 %	110.8 %	2.9 %	3.8 %	81.9 %	5.9 %	1.8 %	1.6 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.041 ppb	0.027 ppb	8.598 ppb	0.744 ppb	0.035 ppb	-0.031 ppb	0.188 ppb	0.181 ppb	95.809 %
Concentration per Run 1	0.013 ppb	0.046 ppb	9.198 ppb	1.524 ppb	0.026 ppb	-0.070 ppb	0.208 ppb	0.195 ppb	93.319 %
Concentration per Run 2	0.026 ppb	0.043 ppb	8.352 ppb	-0.379 ppb	0.049 ppb	0.095 ppb	0.173 ppb	0.178 ppb	98.049 %
Concentration per Run 3	0.083 ppb	-0.007 ppb	8.244 ppb	1.089 ppb	0.029 ppb	-0.118 ppb	0.183 ppb	0.171 ppb	96.059 %
Concentration RSD	92.2 %	108.8 %	6.1 %	133.9 %	35.7 %	360.4 %	9.6 %	6.8 %	2.5 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.057 ppb	-0.017 ppb	40.040 ppb	0.038 ppb	90.320 %	0.000 ppb	0.001 ppb	90.822 %	-0.075 ppb
Concentration per Run 1	0.093 ppb	0.025 ppb	41.546 ppb	0.052 ppb	89.207 %	-0.001 ppb	0.006 ppb	92.615 %	-0.088 ppb
Concentration per Run 2	0.028 ppb	-0.073 ppb	39.188 ppb	0.041 ppb	91.067 %	0.001 ppb	-0.001 ppb	89.681 %	-0.077 ppb
Concentration per Run 3	0.052 ppb	-0.002 ppb	39.387 ppb	0.020 ppb	90.685 %	-0.001 ppb	-0.001 ppb	90.171 %	-0.060 ppb
Concentration RSD	56.9 %	303.4 %	3.3 %	42.5 %	1.1 %	351.7 %	307.6 %	1.7 %	19.0 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	6.561 ppb	84.892 %	83.863 %	0.047 ppb	0.005 ppb	94.131 %
Concentration per Run 1	6.412 ppb	82.825 %	82.922 %	0.041 ppb	0.006 ppb	94.013 %
Concentration per Run 2	6.626 ppb	85.869 %	84.741 %	0.048 ppb	0.001 ppb	94.337 %
Concentration per Run 3	6.646 ppb	85.982 %	83.927 %	0.051 ppb	0.007 ppb	94.044 %
Concentration RSD	2.0 %	2.1 %	1.1 %	10.6 %	77.7 %	0.2 %

Alpha ICPMSQ2 Data with SRD

3/5/2024 9:03:09 PM

Analysis index:	93	User name	ALPHALAB\a2-icpmsq2	Comment	<Comment>
Analysis label:	L2410579-09d10 6020TL	Rack	2		
Analysis started at:	3/5/2024 1:25:32 PM	Vial	16		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	95.957 %	104.360 %	0.000 ppb	2,884.842 ppb	2,107.288 ppb	0.257 ppb	3,743.194 ppb	9,412.084 ppb	81.122 %
Concentration per Run 1	96.420 %	109.369 %	-0.003 ppb	2,725.769 ppb	1,969.542 ppb	-0.641 ppb	3,525.365 ppb	9,196.651 ppb	80.289 %
Concentration per Run 2	96.693 %	107.421 %	0.002 ppb	2,842.265 ppb	2,037.013 ppb	0.286 ppb	3,789.366 ppb	9,264.331 ppb	82.192 %
Concentration per Run 3	94.758 %	96.289 %	0.002 ppb	3,086.493 ppb	2,315.309 ppb	1.127 ppb	3,914.851 ppb	9,775.269 ppb	80.885 %
Concentration RSD	1.1 %	6.8 %	1,094.4 %	6.4 %	8.7 %	343.9 %	5.3 %	3.4 %	1.2 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.049 ppb	0.039 ppb	360.913 ppb	4.060 ppb	0.034 ppb	0.040 ppb	0.261 ppb	0.291 ppb	93.893 %
Concentration per Run 1	0.075 ppb	0.044 ppb	353.280 ppb	3.909 ppb	0.035 ppb	0.086 ppb	0.245 ppb	0.363 ppb	88.888 %
Concentration per Run 2	0.008 ppb	0.043 ppb	353.112 ppb	3.512 ppb	0.032 ppb	0.069 ppb	0.275 ppb	0.221 ppb	101.222 %
Concentration per Run 3	0.063 ppb	0.029 ppb	376.346 ppb	4.759 ppb	0.036 ppb	-0.033 ppb	0.262 ppb	0.289 ppb	91.568 %
Concentration RSD	72.7 %	21.0 %	3.7 %	15.7 %	6.6 %	159.6 %	5.8 %	24.3 %	6.9 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.042 ppb	-0.041 ppb	21.205 ppb	0.027 ppb	91.555 %	0.001 ppb	0.007 ppb	91.208 %	-0.077 ppb
Concentration per Run 1	0.050 ppb	-0.105 ppb	21.097 ppb	0.031 ppb	90.401 %	0.000 ppb	0.009 ppb	87.321 %	-0.094 ppb
Concentration per Run 2	0.017 ppb	0.025 ppb	21.561 ppb	0.020 ppb	93.081 %	0.002 ppb	0.008 ppb	95.323 %	-0.072 ppb
Concentration per Run 3	0.060 ppb	-0.043 ppb	20.957 ppb	0.031 ppb	91.185 %	0.002 ppb	0.002 ppb	90.981 %	-0.066 ppb
Concentration RSD	53.7 %	158.2 %	1.5 %	24.1 %	1.5 %	130.1 %	56.6 %	4.4 %	18.8 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	7.612 ppb	84.092 %	83.594 %	0.025 ppb	0.014 ppb	94.376 %
Concentration per Run 1	6.939 ppb	79.973 %	79.925 %	0.014 ppb	0.011 ppb	91.833 %
Concentration per Run 2	7.884 ppb	87.993 %	88.145 %	0.027 ppb	0.011 ppb	97.733 %
Concentration per Run 3	8.014 ppb	84.309 %	82.712 %	0.033 ppb	0.020 ppb	93.562 %
Concentration RSD	7.7 %	4.8 %	5.0 %	39.1 %	34.8 %	3.2 %

Alpha ICPMSQ2 Data with SRD

3/5/2024 9:03:09 PM

Analysis index:	94	User name	ALPHALAB\a2-icpmsq2	Comment	<Comment>
Analysis label:	CCV	Rack	0		
Analysis started at:	3/5/2024 1:30:00 PM	Vial	9		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	92.813 %	94.991 %	61.168 ppb	5,870.481 ppb	5,906.454 ppb	60.624 ppb	5,860.488 ppb	5,840.856 ppb	88.731 %
Concentration per Run 1	92.430 %	99.072 %	61.815 ppb	5,624.434 ppb	5,574.361 ppb	55.305 ppb	5,695.327 ppb	5,778.119 ppb	87.683 %
Concentration per Run 2	93.512 %	96.289 %	60.998 ppb	5,914.137 ppb	6,070.153 ppb	62.905 ppb	6,051.513 ppb	5,917.417 ppb	89.902 %
Concentration per Run 3	92.498 %	89.610 %	60.692 ppb	6,072.872 ppb	6,074.848 ppb	63.661 ppb	5,834.624 ppb	5,827.032 ppb	88.608 %
Recovery Percentage 1			101.947 %	97.841 %	98.441 %	101.040 %	97.675 %	97.348 %	
Concentration RSD	0.7 %	5.1 %	0.9 %	3.9 %	4.9 %	7.6 %	3.1 %	1.2 %	1.3 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	60.723 ppb	60.294 ppb	61.018 ppb	6,065.572 ppb	61.379 ppb	60.695 ppb	62.467 ppb	62.561 ppb	90.532 %
Concentration per Run 1	60.267 ppb	61.090 ppb	62.919 ppb	6,160.381 ppb	63.093 ppb	62.507 ppb	65.068 ppb	63.013 ppb	85.361 %
Concentration per Run 2	60.248 ppb	59.173 ppb	57.875 ppb	5,938.842 ppb	58.581 ppb	58.108 ppb	60.139 ppb	61.952 ppb	96.152 %
Concentration per Run 3	61.654 ppb	60.620 ppb	62.259 ppb	6,097.492 ppb	62.462 ppb	61.469 ppb	62.195 ppb	62.716 ppb	90.084 %
Recovery Percentage 1	101.205 %	100.490 %	101.696 %	101.093 %	102.298 %	101.158 %	104.112 %	104.268 %	
Concentration RSD	1.3 %	1.7 %	4.5 %	1.9 %	4.0 %	3.8 %	4.0 %	0.9 %	6.0 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	61.326 ppb	63.802 ppb	59.842 ppb	59.744 ppb	88.369 %	59.821 ppb	60.403 ppb	89.343 %	56.863 ppb
Concentration per Run 1	62.748 ppb	63.105 ppb	59.807 ppb	59.062 ppb	86.538 %	60.296 ppb	62.342 ppb	83.023 %	57.933 ppb
Concentration per Run 2	60.195 ppb	63.400 ppb	60.741 ppb	59.870 ppb	89.955 %	59.070 ppb	59.364 ppb	95.389 %	56.840 ppb
Concentration per Run 3	61.037 ppb	64.901 ppb	58.979 ppb	60.300 ppb	88.614 %	60.097 ppb	59.503 ppb	89.615 %	55.817 ppb
Recovery Percentage 1	102.211 %	106.337 %	99.737 %	99.574 %		99.702 %	100.671 %		94.772 %
Concentration RSD	2.1 %	1.5 %	1.5 %	1.1 %	1.9 %	1.1 %	2.8 %	6.9 %	1.9 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	58.646 ppb	83.347 %	82.467 %	62.109 ppb	63.287 ppb	92.841 %
Concentration per Run 1	58.611 ppb	80.182 %	78.255 %	61.513 ppb	62.136 ppb	90.628 %
Concentration per Run 2	60.195 ppb	86.484 %	87.269 %	61.417 ppb	63.388 ppb	94.070 %
Concentration per Run 3	57.133 ppb	83.377 %	81.878 %	63.397 ppb	64.338 ppb	93.825 %
Recovery Percentage 1	97.744 %			103.515 %	105.479 %	
Concentration RSD	2.6 %	3.8 %	5.5 %	1.8 %	1.7 %	2.1 %

Alpha ICPMSQ2 Data with SRD

3/5/2024 9:03:09 PM

Analysis index:	95	User name	ALPHALAB\a2-icpmsq2	Comment	CCB
Analysis label:	CCB	Rack	0		
Analysis started at:	3/5/2024 1:34:31 PM	Vial	10		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	88.987 %	94.063 %	0.005 ppb	-8.511 ppb	-1.110 ppb	-1.212 ppb	4.017 ppb	-2.473 ppb	83.698 %
Concentration per Run 1	87.629 %	88.219 %	0.006 ppb	-8.869 ppb	-0.988 ppb	-1.213 ppb	5.448 ppb	-3.156 ppb	81.838 %
Concentration per Run 2	90.242 %	92.672 %	0.008 ppb	-7.609 ppb	-1.006 ppb	-1.422 ppb	2.926 ppb	-3.202 ppb	84.390 %
Concentration per Run 3	89.091 %	101.299 %	0.001 ppb	-9.056 ppb	-1.335 ppb	-1.001 ppb	3.678 ppb	-1.061 ppb	84.866 %
Recovery Percentage 1			1.028 %	-8.511 %	-1.585 %	-12.118 %	4.017 %	-2.473 %	
Concentration RSD	1.5 %	7.1 %	68.1 %	9.2 %	17.6 %	17.4 %	32.2 %	49.5 %	1.9 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.007 ppb	-0.028 ppb	-0.046 ppb	5.916 ppb	0.001 ppb	0.040 ppb	0.013 ppb	0.102 ppb	84.978 %
Concentration per Run 1	-0.010 ppb	-0.028 ppb	-0.074 ppb	4.462 ppb	0.003 ppb	0.089 ppb	-0.006 ppb	0.131 ppb	82.634 %
Concentration per Run 2	0.036 ppb	0.002 ppb	-0.032 ppb	5.812 ppb	0.002 ppb	0.023 ppb	0.012 ppb	0.106 ppb	87.751 %
Concentration per Run 3	-0.046 ppb	-0.058 ppb	-0.032 ppb	7.475 ppb	-0.002 ppb	0.009 ppb	0.032 ppb	0.070 ppb	84.549 %
Recovery Percentage 1	-0.138 %	-2.826 %	-4.591 %	11.833 %	0.198 %	2.020 %	1.263 %	2.044 %	
Concentration RSD	594.2 %	105.9 %	52.7 %	25.5 %	271.5 %	105.4 %	152.5 %	29.6 %	3.0 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.060 ppb	-0.029 ppb	0.004 ppb	0.102 ppb	86.373 %	0.000 ppb	-0.001 ppb	87.772 %	0.041 ppb
Concentration per Run 1	-0.001 ppb	-0.044 ppb	0.016 ppb	0.056 ppb	84.641 %	0.002 ppb	-0.001 ppb	84.567 %	-0.002 ppb
Concentration per Run 2	0.106 ppb	-0.048 ppb	-0.007 ppb	0.108 ppb	87.306 %	-0.002 ppb	-0.001 ppb	92.306 %	0.077 ppb
Concentration per Run 3	0.075 ppb	0.004 ppb	0.002 ppb	0.142 ppb	87.173 %	0.001 ppb	-0.001 ppb	86.442 %	0.049 ppb
Recovery Percentage 1	11.972 %	-0.589 %	0.036 %	5.092 %		0.068 %	-0.472 %		1.033 %
Concentration RSD	91.9 %	98.2 %	316.6 %	42.4 %	1.7 %	610.1 %	0.0 %	4.6 %	96.4 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	-0.007 ppb	85.894 %	86.669 %	0.246 ppb	0.006 ppb	90.540 %
Concentration per Run 1	-0.026 ppb	85.092 %	84.462 %	0.190 ppb	0.003 ppb	88.307 %
Concentration per Run 2	-0.012 ppb	87.134 %	88.349 %	0.291 ppb	0.008 ppb	92.783 %
Concentration per Run 3	0.018 ppb	85.457 %	87.197 %	0.258 ppb	0.007 ppb	90.530 %
Recovery Percentage 1	-1.315 %			24.622 %	0.603 %	
Concentration RSD	344.9 %	1.3 %	2.3 %	20.8 %	40.9 %	2.5 %

Alpha ICPMSQ2 Data with SRD

3/5/2024 9:03:09 PM

Analysis index:	96	User name	ALPHALAB\a2-icpmsq2	Comment	<Comment>
Analysis label:	WG1890948-1 6020TL	Rack	2		
Analysis started at:	3/5/2024 1:53:06 PM	Vial	17		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	85.332 %	101.763 %	0.001 ppb	-11.351 ppb	0.705 ppb	0.464 ppb	-1.889 ppb	9.842 ppb	72.485 %
Concentration per Run 1	85.653 %	101.020 %	0.005 ppb	-11.135 ppb	0.798 ppb	0.687 ppb	1.298 ppb	11.897 ppb	73.213 %
Concentration per Run 2	85.763 %	102.412 %	0.001 ppb	-11.440 ppb	-0.430 ppb	0.328 ppb	-2.410 ppb	5.143 ppb	72.458 %
Concentration per Run 3	84.581 %	101.855 %	-0.002 ppb	-11.479 ppb	1.747 ppb	0.376 ppb	-4.555 ppb	12.485 ppb	71.785 %
Concentration RSD	0.8 %	0.7 %	240.5 %	1.7 %	154.8 %	42.0 %	156.7 %	41.5 %	1.0 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.026 ppb	-0.021 ppb	-0.014 ppb	1.480 ppb	-0.004 ppb	0.004 ppb	0.032 ppb	0.672 ppb	89.952 %
Concentration per Run 1	-0.062 ppb	-0.016 ppb	-0.015 ppb	0.412 ppb	-0.007 ppb	-0.052 ppb	0.018 ppb	0.733 ppb	92.181 %
Concentration per Run 2	-0.016 ppb	-0.034 ppb	-0.036 ppb	2.338 ppb	-0.007 ppb	-0.052 ppb	0.064 ppb	0.638 ppb	91.973 %
Concentration per Run 3	0.002 ppb	-0.013 ppb	0.010 ppb	1.691 ppb	0.002 ppb	0.116 ppb	0.012 ppb	0.646 ppb	85.702 %
Concentration RSD	129.0 %	52.0 %	167.0 %	66.2 %	140.1 %	2,236.8 %	90.8 %	7.8 %	4.1 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	-0.001 ppb	-0.025 ppb	0.008 ppb	0.018 ppb	88.951 %	0.001 ppb	-0.001 ppb	89.489 %	-0.083 ppb
Concentration per Run 1	0.008 ppb	-0.037 ppb	0.002 ppb	0.032 ppb	86.897 %	0.002 ppb	-0.001 ppb	87.419 %	-0.102 ppb
Concentration per Run 2	0.009 ppb	-0.034 ppb	0.008 ppb	0.010 ppb	90.978 %	-0.001 ppb	-0.001 ppb	90.356 %	-0.068 ppb
Concentration per Run 3	-0.021 ppb	-0.005 ppb	0.014 ppb	0.011 ppb	88.978 %	0.001 ppb	-0.001 ppb	90.691 %	-0.080 ppb
Concentration RSD	1,290.1 %	70.4 %	73.0 %	70.2 %	2.3 %	193.3 %	0.0 %	2.0 %	20.8 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	-0.002 ppb	90.014 %	91.317 %	0.020 ppb	-0.011 ppb	97.057 %
Concentration per Run 1	0.032 ppb	88.648 %	88.729 %	0.013 ppb	-0.008 ppb	96.201 %
Concentration per Run 2	-0.026 ppb	89.586 %	89.964 %	0.021 ppb	-0.014 ppb	97.180 %
Concentration per Run 3	-0.012 ppb	91.807 %	95.259 %	0.026 ppb	-0.011 ppb	97.789 %
Concentration RSD	1,378.2 %	1.8 %	3.8 %	34.3 %	27.0 %	0.8 %

Alpha ICPMSQ2 Data with SRD

3/5/2024 9:03:09 PM

Analysis index:	97	User name	ALPHALAB\a2-icpmsq2	Comment	<Comment>
Analysis label:	WG1890948-2d10 6020TL	Rack	2		
Analysis started at:	3/5/2024 1:57:34 PM	Vial	18		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	90.083 %	96.660 %	5.423 ppb	945.419 ppb	944.393 ppb	205.808 ppb	959.750 ppb	880.952 ppb	78.117 %
Concentration per Run 1	89.653 %	90.445 %	5.547 ppb	1,023.607 ppb	1,006.700 ppb	233.101 ppb	1,002.773 ppb	989.006 ppb	76.369 %
Concentration per Run 2	90.698 %	92.672 %	5.337 ppb	947.093 ppb	962.435 ppb	197.813 ppb	965.344 ppb	836.364 ppb	79.580 %
Concentration per Run 3	89.899 %	106.865 %	5.385 ppb	865.558 ppb	864.042 ppb	186.508 ppb	911.132 ppb	817.486 ppb	78.402 %
Concentration RSD	0.6 %	9.2 %	2.0 %	8.4 %	7.7 %	11.8 %	4.8 %	10.7 %	2.1 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	48.829 ppb	20.151 ppb	51.658 ppb	113.165 ppb	50.859 ppb	51.743 ppb	26.089 ppb	53.201 ppb	83.664 %
Concentration per Run 1	50.422 ppb	20.507 ppb	51.161 ppb	117.587 ppb	52.153 ppb	52.292 ppb	26.370 ppb	54.204 ppb	84.958 %
Concentration per Run 2	51.251 ppb	20.771 ppb	55.602 ppb	114.422 ppb	52.085 ppb	54.768 ppb	26.857 ppb	55.653 ppb	78.506 %
Concentration per Run 3	44.815 ppb	19.174 ppb	48.209 ppb	107.485 ppb	48.339 ppb	48.167 ppb	25.041 ppb	49.744 ppb	87.529 %
Concentration RSD	7.2 %	4.2 %	7.2 %	4.6 %	4.3 %	6.4 %	3.6 %	5.8 %	5.6 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	11.897 ppb	13.160 ppb	98.935 ppb	99.330 ppb	82.606 %	5.029 ppb	5.486 ppb	81.866 %	40.508 ppb
Concentration per Run 1	12.298 ppb	13.971 ppb	102.398 ppb	100.481 ppb	82.882 %	5.142 ppb	5.595 ppb	81.869 %	39.960 ppb
Concentration per Run 2	12.254 ppb	14.268 ppb	99.407 ppb	100.521 ppb	82.135 %	5.079 ppb	5.463 ppb	80.169 %	42.763 ppb
Concentration per Run 3	11.138 ppb	11.241 ppb	95.001 ppb	96.989 ppb	82.803 %	4.865 ppb	5.399 ppb	83.561 %	38.801 ppb
Concentration RSD	5.5 %	12.7 %	3.8 %	2.0 %	0.5 %	2.9 %	1.8 %	2.1 %	5.0 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	195.305 ppb	81.159 %	79.934 %	12.277 ppb	56.338 ppb	86.210 %
Concentration per Run 1	204.465 ppb	80.037 %	80.655 %	12.070 ppb	55.760 ppb	86.476 %
Concentration per Run 2	190.778 ppb	80.869 %	77.388 %	12.375 ppb	56.352 ppb	84.744 %
Concentration per Run 3	190.673 ppb	82.570 %	81.760 %	12.386 ppb	56.902 ppb	87.409 %
Concentration RSD	4.1 %	1.6 %	2.8 %	1.5 %	1.0 %	1.6 %

Alpha ICPMSQ2 Data with SRD

3/5/2024 9:03:09 PM

Analysis index:	98	User name	ALPHALAB\a2-icpmsq2	Comment	<Comment>
Analysis label:	WG1890948-3d10 6020TL	Rack	2		
Analysis started at:	3/5/2024 2:02:51 PM	Vial	20		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	89.091 %	92.022 %	5.598 ppb	962.834 ppb	945.761 ppb	207.959 ppb	924.924 ppb	788.839 ppb	79.540 %
Concentration per Run 1	89.801 %	88.775 %	5.649 ppb	1,048.811 ppb	1,022.094 ppb	232.873 ppb	1,038.501 ppb	821.567 ppb	80.788 %
Concentration per Run 2	88.214 %	92.672 %	5.594 ppb	924.683 ppb	923.833 ppb	196.505 ppb	894.457 ppb	786.310 ppb	78.561 %
Concentration per Run 3	89.257 %	94.620 %	5.551 ppb	915.008 ppb	891.355 ppb	194.499 ppb	841.814 ppb	758.640 ppb	79.271 %
Concentration RSD	0.9 %	3.2 %	0.9 %	7.7 %	7.2 %	10.4 %	11.0 %	4.0 %	1.4 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	48.872 ppb	19.784 ppb	50.278 ppb	101.336 ppb	50.125 ppb	51.384 ppb	26.552 ppb	52.724 ppb	79.473 %
Concentration per Run 1	49.002 ppb	20.125 ppb	51.790 ppb	102.122 ppb	49.333 ppb	50.391 ppb	25.985 ppb	51.905 ppb	83.429 %
Concentration per Run 2	49.576 ppb	19.885 ppb	49.530 ppb	109.086 ppb	51.284 ppb	52.340 ppb	26.999 ppb	53.402 ppb	76.291 %
Concentration per Run 3	48.038 ppb	19.342 ppb	49.514 ppb	92.800 ppb	49.759 ppb	51.420 ppb	26.673 ppb	52.865 ppb	78.700 %
Concentration RSD	1.6 %	2.0 %	2.6 %	8.1 %	2.0 %	1.9 %	2.0 %	1.4 %	4.6 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	10.152 ppb	12.290 ppb	98.791 ppb	99.244 ppb	79.969 %	4.999 ppb	5.594 ppb	79.359 %	35.075 ppb
Concentration per Run 1	10.391 ppb	11.900 ppb	101.652 ppb	98.268 ppb	80.140 %	4.830 ppb	5.393 ppb	82.065 %	35.243 ppb
Concentration per Run 2	10.559 ppb	12.635 ppb	97.484 ppb	98.205 ppb	77.555 %	5.074 ppb	5.611 ppb	76.785 %	35.062 ppb
Concentration per Run 3	9.505 ppb	12.336 ppb	97.237 ppb	101.259 ppb	82.212 %	5.094 ppb	5.777 ppb	79.229 %	34.920 ppb
Concentration RSD	5.6 %	3.0 %	2.5 %	1.8 %	2.9 %	2.9 %	3.4 %	3.3 %	0.5 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	193.769 ppb	77.707 %	77.068 %	12.350 ppb	56.440 ppb	84.006 %
Concentration per Run 1	194.878 ppb	77.367 %	77.504 %	12.080 ppb	55.703 ppb	85.073 %
Concentration per Run 2	195.904 ppb	74.816 %	73.370 %	12.412 ppb	56.608 ppb	80.280 %
Concentration per Run 3	190.526 ppb	80.938 %	80.332 %	12.557 ppb	57.009 ppb	86.665 %
Concentration RSD	1.5 %	4.0 %	4.5 %	2.0 %	1.2 %	4.0 %

Alpha ICPMSQ2 Data with SRD

3/5/2024 9:03:09 PM

Analysis index:	99	User name	ALPHALAB\a2-icpmsq2	Comment	<Comment>
Analysis label:	WG1890948-5d10 6020TL	Rack	2		
Analysis started at:	3/5/2024 2:07:20 PM	Vial	22		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	87.650 %	95.083 %	50.036 ppb	4,415.166 ppb	4,552.424 ppb	46.671 ppb	4,423.282 ppb	4,505.886 ppb	75.354 %
Concentration per Run 1	88.009 %	96.568 %	49.870 ppb	4,485.695 ppb	4,724.906 ppb	48.338 ppb	4,658.227 ppb	4,644.716 ppb	75.509 %
Concentration per Run 2	86.944 %	91.837 %	50.311 ppb	4,566.029 ppb	4,652.963 ppb	44.990 ppb	4,565.609 ppb	4,522.983 ppb	74.845 %
Concentration per Run 3	87.996 %	96.846 %	49.928 ppb	4,193.774 ppb	4,279.402 ppb	46.686 ppb	4,046.009 ppb	4,349.958 ppb	75.709 %
Concentration RSD	0.7 %	3.0 %	0.5 %	4.4 %	5.3 %	3.6 %	7.5 %	3.3 %	0.6 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	47.955 ppb	46.811 ppb	46.507 ppb	4,776.865 ppb	47.939 ppb	49.537 ppb	48.434 ppb	49.640 ppb	83.202 %
Concentration per Run 1	47.532 ppb	46.337 ppb	46.595 ppb	4,759.708 ppb	47.864 ppb	48.885 ppb	46.942 ppb	49.292 ppb	86.073 %
Concentration per Run 2	48.352 ppb	47.770 ppb	47.466 ppb	4,840.323 ppb	48.233 ppb	49.655 ppb	49.991 ppb	50.367 ppb	81.766 %
Concentration per Run 3	47.981 ppb	46.324 ppb	45.459 ppb	4,730.562 ppb	47.718 ppb	50.072 ppb	48.369 ppb	49.262 ppb	81.766 %
Concentration RSD	0.9 %	1.8 %	2.2 %	1.2 %	0.6 %	1.2 %	3.1 %	1.3 %	3.0 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	49.750 ppb	51.228 ppb	50.640 ppb	48.427 ppb	80.300 %	0.556 ppb	49.358 ppb	80.185 %	49.714 ppb
Concentration per Run 1	48.949 ppb	51.160 ppb	52.712 ppb	50.215 ppb	79.467 %	0.556 ppb	50.544 ppb	79.511 %	51.064 ppb
Concentration per Run 2	51.026 ppb	53.451 ppb	49.665 ppb	47.077 ppb	80.116 %	0.558 ppb	48.491 ppb	81.034 %	48.544 ppb
Concentration per Run 3	49.273 ppb	49.074 ppb	49.543 ppb	47.989 ppb	81.317 %	0.555 ppb	49.039 ppb	80.009 %	49.535 ppb
Concentration RSD	2.2 %	4.3 %	3.5 %	3.3 %	1.2 %	0.3 %	2.2 %	1.0 %	2.6 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	47.822 ppb	75.967 %	74.966 %	52.052 ppb	54.739 ppb	80.260 %
Concentration per Run 1	49.944 ppb	75.313 %	76.073 %	51.497 ppb	54.441 ppb	81.307 %
Concentration per Run 2	47.216 ppb	75.884 %	73.791 %	51.364 ppb	54.553 ppb	81.165 %
Concentration per Run 3	46.304 ppb	76.703 %	75.035 %	53.294 ppb	55.224 ppb	78.307 %
Concentration RSD	4.0 %	0.9 %	1.5 %	2.1 %	0.8 %	2.1 %

Alpha ICPMSQ2 Data with SRD

3/5/2024 9:03:09 PM

Analysis index: 100
Analysis label: WG1890948-4 6020TL
Analysis started at: 3/5/2024 2:11:49 PM
User name ALPHALAB\a2-icpmsq2
Rack 2
Vial 21
Comment <Comment>

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	85.321 %	92.672 %	0.003 ppb	-4.091 ppb	0.820 ppb	3.226 ppb	4.451 ppb	16.526 ppb	75.844 %
Concentration per Run 1	84.690 %	86.827 %	0.003 ppb	-1.911 ppb	1.101 ppb	2.762 ppb	2.818 ppb	16.437 ppb	76.574 %
Concentration per Run 2	85.279 %	101.020 %	0.003 ppb	-8.324 ppb	-0.082 ppb	2.876 ppb	-0.729 ppb	13.108 ppb	75.424 %
Concentration per Run 3	85.994 %	90.167 %	0.001 ppb	-2.039 ppb	1.441 ppb	4.040 ppb	11.264 ppb	20.033 ppb	75.533 %
Concentration RSD	0.8 %	8.0 %	40.2 %	89.6 %	97.5 %	21.9 %	138.4 %	21.0 %	0.8 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.040 ppb	0.766 ppb	1.436 ppb	10.498 ppb	0.000 ppb	0.016 ppb	0.068 ppb	0.963 ppb	81.360 %
Concentration per Run 1	-0.028 ppb	0.790 ppb	1.409 ppb	10.330 ppb	0.007 ppb	0.082 ppb	0.064 ppb	1.098 ppb	85.222 %
Concentration per Run 2	-0.029 ppb	0.710 ppb	1.468 ppb	11.447 ppb	-0.007 ppb	-0.001 ppb	0.034 ppb	0.986 ppb	82.003 %
Concentration per Run 3	-0.062 ppb	0.799 ppb	1.432 ppb	9.717 ppb	-0.002 ppb	-0.034 ppb	0.105 ppb	0.804 ppb	76.855 %
Concentration RSD	48.6 %	6.3 %	2.1 %	8.4 %	2,124.0 %	381.0 %	52.7 %	15.4 %	5.2 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.106 ppb	0.114 ppb	0.294 ppb	0.174 ppb	77.099 %	0.002 ppb	0.000 ppb	77.669 %	0.147 ppb
Concentration per Run 1	0.098 ppb	0.343 ppb	0.295 ppb	0.106 ppb	77.982 %	0.002 ppb	-0.001 ppb	79.737 %	0.114 ppb
Concentration per Run 2	0.065 ppb	-0.073 ppb	0.274 ppb	0.176 ppb	79.894 %	0.001 ppb	-0.001 ppb	81.083 %	0.167 ppb
Concentration per Run 3	0.156 ppb	0.071 ppb	0.313 ppb	0.241 ppb	73.422 %	0.002 ppb	0.003 ppb	72.187 %	0.158 ppb
Concentration RSD	43.3 %	185.8 %	6.6 %	38.7 %	4.3 %	47.4 %	565.1 %	6.2 %	19.3 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.368 ppb	77.219 %	77.970 %	0.288 ppb	0.012 ppb	80.487 %
Concentration per Run 1	0.327 ppb	78.948 %	79.792 %	0.230 ppb	0.010 ppb	83.049 %
Concentration per Run 2	0.243 ppb	79.537 %	79.688 %	0.354 ppb	0.010 ppb	81.898 %
Concentration per Run 3	0.534 ppb	73.172 %	74.431 %	0.278 ppb	0.016 ppb	76.513 %
Concentration RSD	40.7 %	4.6 %	3.9 %	21.8 %	26.3 %	4.3 %

Alpha ICPMSQ2 Data with SRD

3/5/2024 9:03:09 PM

Analysis index:	101	User name	ALPHALAB\a2-icpmsq2	Comment	<Comment>
Analysis label:	L2409285-04 6020TL	Rack	2		
Analysis started at:	3/5/2024 2:16:17 PM	Vial	19		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	86.459 %	95.362 %	0.005 ppb	-5.884 ppb	0.736 ppb	1.387 ppb	6.288 ppb	8.009 ppb	78.849 %
Concentration per Run 1	85.202 %	96.011 %	0.004 ppb	-6.241 ppb	0.628 ppb	1.697 ppb	2.331 ppb	4.340 ppb	78.013 %
Concentration per Run 2	87.090 %	96.289 %	0.007 ppb	-5.168 ppb	0.938 ppb	1.397 ppb	13.775 ppb	13.350 ppb	79.363 %
Concentration per Run 3	87.086 %	93.785 %	0.004 ppb	-6.244 ppb	0.642 ppb	1.067 ppb	2.757 ppb	6.335 ppb	79.169 %
Concentration RSD	1.3 %	1.4 %	29.8 %	10.5 %	23.8 %	22.7 %	103.2 %	59.1 %	0.9 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.034 ppb	0.818 ppb	0.180 ppb	11.179 ppb	0.007 ppb	-0.037 ppb	0.117 ppb	0.963 ppb	82.338 %
Concentration per Run 1	-0.045 ppb	0.859 ppb	0.198 ppb	10.925 ppb	0.017 ppb	-0.061 ppb	0.140 ppb	0.880 ppb	80.507 %
Concentration per Run 2	-0.029 ppb	0.737 ppb	0.216 ppb	9.457 ppb	-0.007 ppb	-0.064 ppb	0.086 ppb	1.049 ppb	82.303 %
Concentration per Run 3	-0.029 ppb	0.859 ppb	0.125 ppb	13.154 ppb	0.012 ppb	0.015 ppb	0.124 ppb	0.961 ppb	84.204 %
Concentration RSD	27.7 %	8.7 %	26.9 %	16.7 %	168.1 %	121.1 %	24.0 %	8.7 %	2.2 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.045 ppb	-0.026 ppb	0.275 ppb	0.059 ppb	78.904 %	0.002 ppb	0.000 ppb	78.557 %	0.050 ppb
Concentration per Run 1	0.019 ppb	-0.050 ppb	0.257 ppb	0.037 ppb	76.266 %	0.001 ppb	-0.001 ppb	74.233 %	0.013 ppb
Concentration per Run 2	0.056 ppb	0.004 ppb	0.297 ppb	0.094 ppb	79.830 %	0.004 ppb	-0.001 ppb	79.730 %	0.039 ppb
Concentration per Run 3	0.060 ppb	-0.034 ppb	0.271 ppb	0.046 ppb	80.617 %	0.002 ppb	0.003 ppb	81.708 %	0.100 ppb
Concentration RSD	50.3 %	105.7 %	7.2 %	52.0 %	2.9 %	72.9 %	776.8 %	4.9 %	87.8 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.309 ppb	79.668 %	79.573 %	0.091 ppb	0.016 ppb	82.553 %
Concentration per Run 1	0.245 ppb	75.687 %	75.978 %	0.050 ppb	0.017 ppb	80.829 %
Concentration per Run 2	0.242 ppb	81.359 %	79.930 %	0.109 ppb	0.016 ppb	82.829 %
Concentration per Run 3	0.440 ppb	81.957 %	82.810 %	0.115 ppb	0.016 ppb	84.002 %
Concentration RSD	36.6 %	4.3 %	4.3 %	39.4 %	5.1 %	1.9 %

Alpha ICPMSQ2 Data with SRD

3/5/2024 9:03:09 PM

Analysis index:	102	User name	ALPHALAB\a2-icpmsq2	Comment	<Comment>
Analysis label:	L2409137-10 6020TL	Rack	2		
Analysis started at:	3/5/2024 2:20:45 PM	Vial	24		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	90.727 %	93.785 %	0.003 ppb	-7.300 ppb	0.066 ppb	0.176 ppb	-0.180 ppb	6.880 ppb	84.161 %
Concentration per Run 1	91.377 %	92.950 %	0.004 ppb	-8.736 ppb	-0.352 ppb	-0.051 ppb	-6.137 ppb	13.472 ppb	84.710 %
Concentration per Run 2	90.741 %	91.002 %	0.001 ppb	-6.553 ppb	0.006 ppb	0.267 ppb	9.817 ppb	-3.041 ppb	84.588 %
Concentration per Run 3	90.063 %	97.403 %	0.005 ppb	-6.610 ppb	0.543 ppb	0.311 ppb	-4.220 ppb	10.208 ppb	83.186 %
Concentration RSD	0.7 %	3.5 %	64.5 %	17.0 %	683.6 %	112.7 %	4,832.3 %	127.1 %	1.0 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.047 ppb	0.113 ppb	0.039 ppb	2.217 ppb	0.005 ppb	-0.032 ppb	0.049 ppb	0.857 ppb	88.929 %
Concentration per Run 1	-0.046 ppb	0.088 ppb	0.075 ppb	2.105 ppb	0.007 ppb	-0.041 ppb	0.050 ppb	0.724 ppb	88.381 %
Concentration per Run 2	-0.062 ppb	0.172 ppb	0.035 ppb	2.178 ppb	0.007 ppb	-0.020 ppb	0.042 ppb	0.899 ppb	86.060 %
Concentration per Run 3	-0.031 ppb	0.081 ppb	0.006 ppb	2.370 ppb	0.002 ppb	-0.035 ppb	0.055 ppb	0.947 ppb	92.347 %
Concentration RSD	33.4 %	44.6 %	89.4 %	6.2 %	55.6 %	34.0 %	13.4 %	13.7 %	3.6 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.023 ppb	0.029 ppb	0.223 ppb	0.036 ppb	85.069 %	0.000 ppb	-0.001 ppb	85.399 %	-0.009 ppb
Concentration per Run 1	0.044 ppb	-0.058 ppb	0.218 ppb	0.022 ppb	82.529 %	0.001 ppb	-0.001 ppb	81.930 %	-0.064 ppb
Concentration per Run 2	0.025 ppb	0.091 ppb	0.236 ppb	0.033 ppb	85.581 %	0.002 ppb	-0.001 ppb	86.339 %	0.028 ppb
Concentration per Run 3	0.001 ppb	0.054 ppb	0.215 ppb	0.053 ppb	87.097 %	-0.002 ppb	-0.001 ppb	87.928 %	0.008 ppb
Concentration RSD	92.3 %	268.5 %	5.1 %	43.3 %	2.7 %	558.2 %	0.0 %	3.6 %	515.7 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.253 ppb	84.923 %	83.765 %	0.049 ppb	-0.010 ppb	87.706 %
Concentration per Run 1	0.272 ppb	79.951 %	79.347 %	0.025 ppb	-0.009 ppb	83.230 %
Concentration per Run 2	0.267 ppb	87.284 %	85.915 %	0.059 ppb	-0.013 ppb	89.997 %
Concentration per Run 3	0.220 ppb	87.535 %	86.034 %	0.064 ppb	-0.009 ppb	89.891 %
Concentration RSD	11.3 %	5.1 %	4.6 %	43.1 %	21.3 %	4.4 %

Alpha ICPMSQ2 Data with SRD

3/5/2024 9:03:09 PM

Analysis index:	103	User name	ALPHALAB\a2-icpmsq2	Comment	<Comment>
Analysis label:	WG1890948-6d5 6020TL	Rack	2		
Analysis started at:	3/5/2024 2:25:15 PM	Vial	23		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	88.670 %	95.083 %	0.001 ppb	-10.148 ppb	-0.490 ppb	0.365 ppb	-1.434 ppb	0.835 ppb	81.000 %
Concentration per Run 1	88.645 %	90.445 %	0.000 ppb	-8.836 ppb	-0.998 ppb	-0.006 ppb	6.978 ppb	3.568 ppb	81.409 %
Concentration per Run 2	88.525 %	99.629 %	0.000 ppb	-13.054 ppb	-0.101 ppb	0.199 ppb	-4.512 ppb	-3.979 ppb	81.423 %
Concentration per Run 3	88.840 %	95.176 %	0.002 ppb	-8.555 ppb	-0.371 ppb	0.902 ppb	-6.770 ppb	2.916 ppb	80.166 %
Concentration RSD	0.2 %	4.8 %	104.8 %	24.8 %	93.9 %	130.5 %	514.0 %	500.9 %	0.9 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.002 ppb	0.188 ppb	0.016 ppb	3.282 ppb	-0.002 ppb	-0.011 ppb	0.043 ppb	0.241 ppb	88.945 %
Concentration per Run 1	0.005 ppb	0.210 ppb	-0.008 ppb	3.022 ppb	-0.002 ppb	0.013 ppb	0.052 ppb	0.241 ppb	85.986 %
Concentration per Run 2	0.000 ppb	0.203 ppb	0.026 ppb	3.153 ppb	0.002 ppb	-0.080 ppb	0.037 ppb	0.245 ppb	91.494 %
Concentration per Run 3	0.002 ppb	0.153 ppb	0.030 ppb	3.671 ppb	-0.007 ppb	0.033 ppb	0.039 ppb	0.238 ppb	89.353 %
Concentration RSD	120.5 %	16.4 %	132.5 %	10.5 %	187.6 %	526.6 %	19.0 %	1.4 %	3.1 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	-0.002 ppb	0.076 ppb	0.058 ppb	0.015 ppb	85.074 %	0.000 ppb	0.000 ppb	83.383 %	-0.027 ppb
Concentration per Run 1	0.010 ppb	0.106 ppb	0.056 ppb	0.011 ppb	81.320 %	0.000 ppb	-0.001 ppb	78.167 %	-0.048 ppb
Concentration per Run 2	-0.020 ppb	0.048 ppb	0.050 ppb	0.000 ppb	87.150 %	0.002 ppb	0.003 ppb	85.170 %	-0.017 ppb
Concentration per Run 3	0.005 ppb	0.073 ppb	0.069 ppb	0.032 ppb	86.753 %	-0.002 ppb	-0.001 ppb	86.812 %	-0.015 ppb
Concentration RSD	1,016.9 %	38.5 %	16.3 %	112.5 %	3.8 %	2,132.8 %	961.6 %	5.5 %	69.1 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.045 ppb	83.895 %	83.520 %	0.027 ppb	0.004 ppb	87.430 %
Concentration per Run 1	0.070 ppb	79.895 %	79.975 %	0.014 ppb	0.002 ppb	85.077 %
Concentration per Run 2	0.019 ppb	85.507 %	85.154 %	0.032 ppb	0.005 ppb	88.328 %
Concentration per Run 3	0.047 ppb	86.281 %	85.431 %	0.034 ppb	0.005 ppb	88.884 %
Concentration RSD	57.1 %	4.2 %	3.7 %	41.1 %	43.2 %	2.4 %

Alpha ICPMSQ2 Data with SRD

3/5/2024 9:03:09 PM

Analysis index:	104	User name	ALPHALAB\a2-icpmsq2	Comment	<Comment>
Analysis label:	CCV	Rack	0		
Analysis started at:	3/5/2024 2:29:44 PM	Vial	9		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	89.001 %	89.981 %	61.367 ppb	5,848.797 ppb	5,883.782 ppb	61.389 ppb	5,714.303 ppb	5,913.128 ppb	84.687 %
Concentration per Run 1	88.524 %	85.992 %	61.924 ppb	5,907.853 ppb	5,929.947 ppb	60.802 ppb	5,597.581 ppb	5,784.605 ppb	85.490 %
Concentration per Run 2	89.827 %	97.959 %	61.080 ppb	5,523.492 ppb	5,601.653 ppb	58.635 ppb	5,582.237 ppb	5,839.448 ppb	84.179 %
Concentration per Run 3	88.653 %	85.992 %	61.095 ppb	6,115.045 ppb	6,119.745 ppb	64.731 ppb	5,963.092 ppb	6,115.332 ppb	84.394 %
Recovery Percentage 1			102.278 %	97.480 %	98.063 %	102.315 %	95.238 %	98.552 %	
Concentration RSD	0.8 %	7.7 %	0.8 %	5.1 %	4.5 %	5.0 %	3.8 %	3.0 %	0.8 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	61.618 ppb	60.492 ppb	60.692 ppb	6,116.146 ppb	61.663 ppb	62.531 ppb	62.010 ppb	62.357 ppb	84.703 %
Concentration per Run 1	62.234 ppb	60.188 ppb	60.053 ppb	6,066.317 ppb	61.932 ppb	62.092 ppb	61.407 ppb	61.422 ppb	84.594 %
Concentration per Run 2	60.007 ppb	60.006 ppb	62.054 ppb	6,174.016 ppb	62.332 ppb	63.835 ppb	62.812 ppb	64.506 ppb	82.134 %
Concentration per Run 3	62.613 ppb	61.283 ppb	59.970 ppb	6,108.104 ppb	60.726 ppb	61.666 ppb	61.812 ppb	61.143 ppb	87.382 %
Recovery Percentage 1	102.697 %	100.820 %	101.154 %	101.936 %	102.772 %	104.218 %	103.350 %	103.929 %	
Concentration RSD	2.3 %	1.1 %	1.9 %	0.9 %	1.4 %	1.8 %	1.2 %	3.0 %	3.1 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	62.355 ppb	61.939 ppb	60.544 ppb	60.392 ppb	83.825 %	60.820 ppb	61.227 ppb	82.720 %	57.454 ppb
Concentration per Run 1	60.666 ppb	59.186 ppb	60.426 ppb	59.085 ppb	79.102 %	62.194 ppb	61.091 ppb	77.048 %	58.249 ppb
Concentration per Run 2	65.904 ppb	63.487 ppb	61.845 ppb	61.943 ppb	85.392 %	59.771 ppb	60.382 ppb	85.221 %	57.306 ppb
Concentration per Run 3	60.494 ppb	63.145 ppb	59.363 ppb	60.148 ppb	86.981 %	60.494 ppb	62.208 ppb	85.891 %	56.806 ppb
Recovery Percentage 1	103.924 %	103.232 %	100.907 %	100.653 %		101.366 %	102.045 %		95.757 %
Concentration RSD	4.9 %	3.9 %	2.1 %	2.4 %	5.0 %	2.0 %	1.5 %	6.0 %	1.3 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	58.315 ppb	78.439 %	76.623 %	64.563 ppb	64.958 ppb	85.899 %
Concentration per Run 1	58.641 ppb	73.620 %	71.742 %	63.798 ppb	64.597 ppb	81.721 %
Concentration per Run 2	58.642 ppb	80.326 %	78.261 %	63.394 ppb	64.351 ppb	88.666 %
Concentration per Run 3	57.660 ppb	81.371 %	79.866 %	66.497 ppb	65.925 ppb	87.309 %
Recovery Percentage 1	97.191 %			107.605 %	108.263 %	
Concentration RSD	1.0 %	5.4 %	5.6 %	2.6 %	1.3 %	4.3 %

Alpha ICPMSQ2 Data with SRD

3/5/2024 9:03:09 PM

Analysis index:	105	User name	ALPHALAB\a2-icpmsq2	Comment	<Comment>
Analysis label:	CCB	Rack	0		
Analysis started at:	3/5/2024 2:34:16 PM	Vial	10		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	87.701 %	85.621 %	0.005 ppb	-10.502 ppb	-0.723 ppb	-0.962 ppb	-0.301 ppb	-1.108 ppb	81.534 %
Concentration per Run 1	87.054 %	79.035 %	0.004 ppb	-8.985 ppb	-0.198 ppb	-1.064 ppb	2.284 ppb	-7.956 ppb	81.365 %
Concentration per Run 2	88.029 %	83.488 %	0.006 ppb	-10.175 ppb	-0.968 ppb	-0.774 ppb	2.593 ppb	5.309 ppb	81.829 %
Concentration per Run 3	88.018 %	94.341 %	0.005 ppb	-12.346 ppb	-1.004 ppb	-1.048 ppb	-5.778 ppb	-0.679 ppb	81.407 %
Recovery Percentage 1			0.944 %	-10.502 %	-1.033 %	-9.623 %	-0.301 %	-1.108 %	
Concentration RSD	0.6 %	9.2 %	17.2 %	16.2 %	63.0 %	17.0 %	1,579.0 %	599.3 %	0.3 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.044 ppb	-0.028 ppb	0.013 ppb	5.357 ppb	-0.002 ppb	0.032 ppb	0.002 ppb	0.105 ppb	79.599 %
Concentration per Run 1	-0.044 ppb	-0.035 ppb	0.000 ppb	3.820 ppb	-0.002 ppb	0.088 ppb	0.006 ppb	0.054 ppb	80.148 %
Concentration per Run 2	-0.044 ppb	-0.040 ppb	0.001 ppb	4.801 ppb	-0.002 ppb	0.004 ppb	0.007 ppb	0.140 ppb	77.365 %
Concentration per Run 3	-0.045 ppb	-0.009 ppb	0.039 ppb	7.450 ppb	-0.002 ppb	0.005 ppb	-0.006 ppb	0.120 ppb	81.285 %
Recovery Percentage 1	-0.887 %	-2.839 %	1.323 %	10.714 %	-0.339 %	1.609 %	0.232 %	2.099 %	
Concentration RSD	1.7 %	58.7 %	170.6 %	35.1 %	9.9 %	149.2 %	309.6 %	42.8 %	2.5 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.065 ppb	0.071 ppb	-0.002 ppb	0.111 ppb	79.017 %	0.003 ppb	0.002 ppb	77.186 %	0.060 ppb
Concentration per Run 1	0.045 ppb	0.048 ppb	-0.004 ppb	0.145 ppb	76.952 %	0.003 ppb	-0.001 ppb	76.419 %	0.039 ppb
Concentration per Run 2	0.102 ppb	0.063 ppb	-0.004 ppb	0.072 ppb	79.294 %	0.007 ppb	0.003 ppb	76.620 %	0.052 ppb
Concentration per Run 3	0.050 ppb	0.102 ppb	0.003 ppb	0.116 ppb	80.804 %	0.000 ppb	0.003 ppb	78.518 %	0.088 ppb
Recovery Percentage 1	13.098 %	1.415 %	-0.018 %	5.558 %		0.800 %	0.789 %		1.496 %
Concentration RSD	48.1 %	39.0 %	207.9 %	33.3 %	2.5 %	110.5 %	138.5 %	1.5 %	42.2 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	-0.005 ppb	78.655 %	78.427 %	0.268 ppb	0.008 ppb	82.408 %
Concentration per Run 1	-0.009 ppb	76.450 %	76.282 %	0.203 ppb	0.005 ppb	80.739 %
Concentration per Run 2	-0.026 ppb	79.397 %	79.040 %	0.342 ppb	0.011 ppb	81.918 %
Concentration per Run 3	0.022 ppb	80.119 %	79.961 %	0.260 ppb	0.009 ppb	84.567 %
Recovery Percentage 1	-0.903 %			26.836 %	0.841 %	
Concentration RSD	541.0 %	2.5 %	2.4 %	26.1 %	38.6 %	2.4 %

Alpha ICPMSQ2 Data with SRD

3/5/2024 9:03:09 PM

Analysis index:	106	User name	ALPHALAB\a2-icpmsq2	Comment	<Comment>
Analysis label:	I2410677-03 6020TL	Rack	1		
Analysis started at:	3/5/2024 2:43:26 PM	Vial	15		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	86.088 %	91.466 %	0.006 ppb	187.377 ppb	8.206 ppb	2.291 ppb	3.035 ppb	55.050 ppb	78.014 %
Concentration per Run 1	86.570 %	94.063 %	0.006 ppb	181.003 ppb	8.172 ppb	2.609 ppb	-0.543 ppb	59.583 ppb	79.521 %
Concentration per Run 2	85.987 %	85.714 %	0.009 ppb	193.908 ppb	6.909 ppb	3.009 ppb	8.078 ppb	52.473 ppb	77.217 %
Concentration per Run 3	85.708 %	94.620 %	0.003 ppb	187.221 ppb	9.536 ppb	1.255 ppb	1.571 ppb	53.095 ppb	77.304 %
Concentration RSD	0.5 %	5.5 %	50.7 %	3.4 %	16.0 %	40.1 %	148.0 %	7.2 %	1.7 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.034 ppb	0.073 ppb	0.129 ppb	1.563 ppb	0.005 ppb	0.023 ppb	0.142 ppb	0.282 ppb	82.019 %
Concentration per Run 1	-0.029 ppb	0.073 ppb	0.189 ppb	0.921 ppb	-0.007 ppb	-0.036 ppb	0.112 ppb	0.231 ppb	85.236 %
Concentration per Run 2	-0.044 ppb	0.070 ppb	0.094 ppb	1.517 ppb	0.013 ppb	0.086 ppb	0.082 ppb	0.333 ppb	78.816 %
Concentration per Run 3	-0.028 ppb	0.076 ppb	0.106 ppb	2.251 ppb	0.007 ppb	0.020 ppb	0.230 ppb	0.283 ppb	82.003 %
Concentration RSD	26.4 %	3.9 %	39.8 %	42.6 %	219.1 %	263.8 %	55.5 %	18.2 %	3.9 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.067 ppb	0.063 ppb	0.191 ppb	0.024 ppb	80.229 %	0.000 ppb	0.000 ppb	78.421 %	-0.044 ppb
Concentration per Run 1	0.027 ppb	0.036 ppb	0.170 ppb	0.012 ppb	79.032 %	0.001 ppb	0.003 ppb	79.099 %	-0.039 ppb
Concentration per Run 2	0.157 ppb	-0.036 ppb	0.190 ppb	0.048 ppb	78.897 %	0.001 ppb	-0.001 ppb	76.375 %	-0.064 ppb
Concentration per Run 3	0.016 ppb	0.189 ppb	0.214 ppb	0.011 ppb	82.758 %	0.000 ppb	-0.001 ppb	79.791 %	-0.027 ppb
Concentration RSD	117.5 %	182.9 %	11.5 %	88.6 %	2.7 %	169.4 %	708.0 %	2.3 %	43.0 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.275 ppb	79.459 %	80.181 %	0.047 ppb	-0.007 ppb	84.751 %
Concentration per Run 1	0.248 ppb	78.530 %	79.285 %	0.027 ppb	-0.008 ppb	86.065 %
Concentration per Run 2	0.303 ppb	78.263 %	78.767 %	0.057 ppb	-0.009 ppb	82.437 %
Concentration per Run 3	0.273 ppb	81.584 %	82.491 %	0.057 ppb	-0.004 ppb	85.752 %
Concentration RSD	10.0 %	2.3 %	2.5 %	36.3 %	37.4 %	2.4 %

Alpha ICPMSQ2 Data with SRD

3/5/2024 9:03:09 PM

Analysis index:	107	User name	ALPHALAB\a2-icpmsq2	Comment	<Comment>
Analysis label:	WG1891910-7d20 6020TL	Rack	1		
Analysis started at:	3/5/2024 2:47:53 PM	Vial	9		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	89.683 %	96.382 %	2.621 ppb	10,412.928 ppb	1,400.455 ppb	106.143 ppb	3,803.702 ppb	6,158.988 ppb	75.465 %
Concentration per Run 1	89.593 %	92.115 %	2.672 ppb	10,895.860 ppb	1,467.046 ppb	113.305 ppb	3,969.090 ppb	6,385.852 ppb	76.354 %
Concentration per Run 2	89.950 %	94.898 %	2.577 ppb	10,293.883 ppb	1,379.570 ppb	102.028 ppb	3,716.353 ppb	6,104.269 ppb	75.912 %
Concentration per Run 3	89.507 %	102.134 %	2.612 ppb	10,049.039 ppb	1,354.749 ppb	103.095 ppb	3,725.665 ppb	5,986.844 ppb	74.130 %
Concentration RSD	0.3 %	5.4 %	1.8 %	4.2 %	4.2 %	5.9 %	3.8 %	3.3 %	1.6 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	24.025 ppb	9.729 ppb	46.094 ppb	110.194 ppb	24.517 ppb	25.320 ppb	12.852 ppb	25.559 ppb	86.714 %
Concentration per Run 1	24.696 ppb	9.857 ppb	46.129 ppb	111.967 ppb	25.985 ppb	25.771 ppb	13.150 ppb	25.828 ppb	83.666 %
Concentration per Run 2	24.165 ppb	9.821 ppb	46.057 ppb	116.223 ppb	24.622 ppb	25.260 ppb	13.022 ppb	25.928 ppb	86.479 %
Concentration per Run 3	23.215 ppb	9.507 ppb	46.095 ppb	102.394 ppb	22.945 ppb	24.927 ppb	12.384 ppb	24.920 ppb	89.997 %
Concentration RSD	3.1 %	2.0 %	0.1 %	6.4 %	6.2 %	1.7 %	3.2 %	2.2 %	3.7 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	6.490 ppb	6.366 ppb	87.720 ppb	48.967 ppb	83.810 %	2.505 ppb	2.768 ppb	81.646 %	24.206 ppb
Concentration per Run 1	6.546 ppb	6.396 ppb	91.006 ppb	50.026 ppb	83.339 %	2.561 ppb	2.757 ppb	80.022 %	24.963 ppb
Concentration per Run 2	6.420 ppb	5.904 ppb	84.206 ppb	48.153 ppb	80.681 %	2.497 ppb	2.803 ppb	77.610 %	23.914 ppb
Concentration per Run 3	6.504 ppb	6.798 ppb	87.950 ppb	48.722 ppb	87.410 %	2.458 ppb	2.744 ppb	87.306 %	23.742 ppb
Concentration RSD	1.0 %	7.0 %	3.9 %	2.0 %	4.0 %	2.1 %	1.1 %	6.2 %	2.7 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	102.708 ppb	78.243 %	76.308 %	6.217 ppb	28.399 ppb	86.189 %
Concentration per Run 1	106.422 ppb	75.951 %	73.828 %	6.201 ppb	28.250 ppb	85.644 %
Concentration per Run 2	104.203 ppb	77.091 %	74.401 %	6.349 ppb	28.744 ppb	84.156 %
Concentration per Run 3	97.498 ppb	81.686 %	80.694 %	6.100 ppb	28.203 ppb	88.766 %
Concentration RSD	4.5 %	3.9 %	5.0 %	2.0 %	1.1 %	2.7 %

Alpha ICPMSQ2 Data with SRD

3/5/2024 9:03:09 PM

Analysis index:	108	User name	ALPHALAB\a2-icpmsq2	Comment	<Comment>
Analysis label:	WG1891910-8d20 6020TL	Rack	1		
Analysis started at:	3/5/2024 2:52:22 PM	Vial	10		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	84.357 %	90.723 %	2.550 ppb	11,002.510 ppb	1,472.501 ppb	110.275 ppb	3,969.980 ppb	6,255.351 ppb	68.338 %
Concentration per Run 1	83.729 %	87.106 %	2.568 ppb	11,313.784 ppb	1,527.988 ppb	108.193 ppb	4,117.504 ppb	6,255.666 ppb	68.386 %
Concentration per Run 2	85.174 %	97.124 %	2.587 ppb	10,663.435 ppb	1,407.225 ppb	107.237 ppb	3,815.510 ppb	6,089.774 ppb	68.845 %
Concentration per Run 3	84.166 %	87.941 %	2.494 ppb	11,030.311 ppb	1,482.291 ppb	115.395 ppb	3,976.924 ppb	6,420.612 ppb	67.783 %
Concentration RSD	0.9 %	6.1 %	1.9 %	3.0 %	4.1 %	4.0 %	3.8 %	2.6 %	0.8 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	25.376 ppb	10.111 ppb	47.632 ppb	103.337 ppb	26.062 ppb	26.004 ppb	13.181 ppb	26.277 ppb	84.631 %
Concentration per Run 1	26.687 ppb	10.176 ppb	48.834 ppb	99.325 ppb	26.335 ppb	26.514 ppb	12.756 ppb	25.986 ppb	86.659 %
Concentration per Run 2	24.597 ppb	10.049 ppb	47.213 ppb	97.789 ppb	25.389 ppb	25.752 ppb	13.498 ppb	25.959 ppb	86.109 %
Concentration per Run 3	24.843 ppb	10.110 ppb	46.848 ppb	112.898 ppb	26.463 ppb	25.745 ppb	13.288 ppb	26.886 ppb	81.124 %
Concentration RSD	4.5 %	0.6 %	2.2 %	8.0 %	2.3 %	1.7 %	2.9 %	2.0 %	3.6 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	6.579 ppb	6.287 ppb	90.926 ppb	49.389 ppb	83.108 %	2.481 ppb	2.813 ppb	82.743 %	24.296 ppb
Concentration per Run 1	6.177 ppb	6.300 ppb	89.819 ppb	48.653 ppb	83.118 %	2.463 ppb	2.893 ppb	80.576 %	24.445 ppb
Concentration per Run 2	6.942 ppb	6.395 ppb	92.306 ppb	48.856 ppb	83.673 %	2.510 ppb	2.769 ppb	83.365 %	24.744 ppb
Concentration per Run 3	6.618 ppb	6.167 ppb	90.652 ppb	50.659 ppb	82.534 %	2.469 ppb	2.779 ppb	84.290 %	23.699 ppb
Concentration RSD	5.8 %	1.8 %	1.4 %	2.2 %	0.7 %	1.0 %	2.5 %	2.3 %	2.2 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	103.743 ppb	78.358 %	77.050 %	6.352 ppb	28.715 ppb	86.160 %
Concentration per Run 1	102.515 ppb	76.695 %	74.901 %	6.161 ppb	27.591 ppb	87.660 %
Concentration per Run 2	105.777 ppb	80.353 %	79.438 %	6.388 ppb	29.608 ppb	84.343 %
Concentration per Run 3	102.936 ppb	78.028 %	76.811 %	6.509 ppb	28.946 ppb	86.477 %
Concentration RSD	1.7 %	2.4 %	3.0 %	2.8 %	3.6 %	2.0 %

Alpha ICPMSQ2 Data with SRD

3/5/2024 9:03:09 PM

Analysis index: 109
Analysis label: WG1891910-9d10 6020TL
Analysis started at: 3/5/2024 2:56:52 PM
User name ALPHALAB\a2-icpmsq2
Rack 1
Vial 11
Comment <Comment>

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	86.145 %	93.877 %	46.067 ppb	24,118.337 ppb	6,311.154 ppb	60.230 ppb	11,258.196 ppb	15,754.449 ppb	71.954 %
Concentration per Run 1	85.162 %	91.558 %	46.024 ppb	24,285.503 ppb	6,466.407 ppb	61.979 ppb	11,999.179 ppb	16,591.851 ppb	71.590 %
Concentration per Run 2	86.163 %	95.454 %	45.790 ppb	23,941.567 ppb	6,164.193 ppb	58.441 ppb	10,725.792 ppb	15,148.923 ppb	71.876 %
Concentration per Run 3	87.110 %	94.620 %	46.388 ppb	24,127.941 ppb	6,302.861 ppb	60.270 ppb	11,049.617 ppb	15,522.575 ppb	72.395 %
Concentration RSD	1.1 %	2.2 %	0.7 %	0.7 %	2.4 %	2.9 %	5.9 %	4.8 %	0.6 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	45.044 ppb	46.353 ppb	91.212 ppb	4,750.968 ppb	47.748 ppb	48.311 ppb	48.057 ppb	50.167 ppb	78.044 %
Concentration per Run 1	44.935 ppb	45.685 ppb	93.575 ppb	4,750.574 ppb	47.141 ppb	48.157 ppb	47.227 ppb	50.037 ppb	78.505 %
Concentration per Run 2	43.817 ppb	46.439 ppb	90.967 ppb	4,641.775 ppb	47.191 ppb	47.705 ppb	47.712 ppb	49.501 ppb	78.347 %
Concentration per Run 3	46.380 ppb	46.936 ppb	89.095 ppb	4,860.554 ppb	48.911 ppb	49.072 ppb	49.233 ppb	50.964 ppb	77.280 %
Concentration RSD	2.9 %	1.4 %	2.5 %	2.3 %	2.1 %	1.4 %	2.2 %	1.5 %	0.9 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	51.509 ppb	51.505 ppb	134.956 ppb	49.750 ppb	75.730 %	0.477 ppb	47.463 ppb	76.969 %	47.497 ppb
Concentration per Run 1	51.382 ppb	50.400 ppb	140.329 ppb	49.900 ppb	74.463 %	0.512 ppb	46.926 ppb	79.104 %	46.339 ppb
Concentration per Run 2	50.753 ppb	51.061 ppb	135.624 ppb	51.056 ppb	77.727 %	0.463 ppb	48.476 ppb	76.512 %	48.402 ppb
Concentration per Run 3	52.391 ppb	53.054 ppb	128.913 ppb	48.294 ppb	74.998 %	0.457 ppb	46.988 ppb	75.290 %	47.752 ppb
Concentration RSD	1.6 %	2.7 %	4.3 %	2.8 %	2.3 %	6.3 %	1.8 %	2.5 %	2.2 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	55.896 ppb	68.612 %	67.601 %	49.928 ppb	51.747 ppb	80.230 %
Concentration per Run 1	54.518 ppb	66.547 %	66.185 %	47.608 ppb	50.546 ppb	79.159 %
Concentration per Run 2	57.443 ppb	70.973 %	69.629 %	51.044 ppb	52.412 ppb	81.442 %
Concentration per Run 3	55.726 ppb	68.315 %	66.989 %	51.131 ppb	52.282 ppb	80.088 %
Concentration RSD	2.6 %	3.2 %	2.7 %	4.0 %	2.0 %	1.4 %

Alpha ICPMSQ2 Data with SRD

3/5/2024 9:03:09 PM

Analysis index: 110
Analysis label: WG1891910-10d5 6020TL
Analysis started at: 3/5/2024 3:01:22 PM
User name ALPHALAB\a2-icpmsq2
Rack 1
Vial 12
Comment <Comment>

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	86.143 %	87.013 %	0.008 ppb	42,062.193 ppb	4,001.968 ppb	31.989 ppb	14,418.670 ppb	23,927.389 ppb	63.417 %
Concentration per Run 1	85.652 %	88.219 %	0.012 ppb	43,154.382 ppb	4,066.077 ppb	35.442 ppb	14,913.125 ppb	25,310.459 ppb	64.022 %
Concentration per Run 2	86.061 %	82.096 %	0.004 ppb	43,405.196 ppb	4,131.049 ppb	32.329 ppb	14,675.333 ppb	24,072.456 ppb	62.997 %
Concentration per Run 3	86.717 %	90.724 %	0.007 ppb	39,627.002 ppb	3,808.777 ppb	28.198 ppb	13,667.551 ppb	22,399.251 ppb	63.232 %
Concentration RSD	0.6 %	5.1 %	54.3 %	5.0 %	4.3 %	11.4 %	4.6 %	6.1 %	0.8 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.544 ppb	0.540 ppb	91.622 ppb	213.638 ppb	0.106 ppb	0.263 ppb	0.157 ppb	0.816 ppb	80.543 %
Concentration per Run 1	0.563 ppb	0.559 ppb	93.920 ppb	221.955 ppb	0.120 ppb	0.225 ppb	0.129 ppb	0.852 ppb	82.004 %
Concentration per Run 2	0.536 ppb	0.565 ppb	88.994 ppb	204.771 ppb	0.120 ppb	0.312 ppb	0.221 ppb	0.852 ppb	79.866 %
Concentration per Run 3	0.533 ppb	0.495 ppb	91.954 ppb	214.188 ppb	0.079 ppb	0.250 ppb	0.122 ppb	0.744 ppb	79.760 %
Concentration RSD	3.1 %	7.2 %	2.7 %	4.0 %	22.2 %	17.1 %	35.0 %	7.6 %	1.6 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	2.063 ppb	0.146 ppb	176.677 ppb	1.230 ppb	75.477 %	0.001 ppb	0.007 ppb	75.522 %	-0.018 ppb
Concentration per Run 1	1.930 ppb	0.263 ppb	186.264 ppb	1.226 ppb	74.884 %	0.000 ppb	0.007 ppb	77.020 %	-0.028 ppb
Concentration per Run 2	2.180 ppb	0.190 ppb	169.801 ppb	1.538 ppb	77.892 %	0.000 ppb	0.014 ppb	78.006 %	-0.025 ppb
Concentration per Run 3	2.079 ppb	-0.016 ppb	173.967 ppb	0.926 ppb	73.656 %	0.002 ppb	-0.001 ppb	71.540 %	-0.001 ppb
Concentration RSD	6.1 %	99.4 %	4.8 %	24.9 %	2.9 %	277.0 %	113.2 %	4.6 %	84.1 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	16.733 ppb	65.380 %	64.866 %	0.313 ppb	0.088 ppb	73.651 %
Concentration per Run 1	16.333 ppb	63.400 %	65.344 %	0.240 ppb	0.081 ppb	74.485 %
Concentration per Run 2	17.541 ppb	67.300 %	66.413 %	0.392 ppb	0.095 ppb	73.892 %
Concentration per Run 3	16.323 ppb	65.440 %	62.841 %	0.306 ppb	0.088 ppb	72.577 %
Concentration RSD	4.2 %	3.0 %	2.8 %	24.4 %	8.2 %	1.3 %

Alpha ICPMSQ2 Data with SRD

3/5/2024 9:03:09 PM

Analysis index:	111	User name	ALPHALAB\a2-icpmsq2	Comment	<Comment>
Analysis label:	I2410677-01 6020TL	Rack	1		
Analysis started at:	3/5/2024 3:05:53 PM	Vial	8		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	89.601 %	94.620 %	0.014 ppb	194,244.532 ppb	18,363.693 ppb	140.123 ppb	67,576.184 ppb	109,299.922 ppb	57.630 %
Concentration per Run 1	89.544 %	93.228 %	0.015 ppb	200,590.583 ppb	19,098.081 ppb	143.329 ppb	71,553.310 ppb	116,384.862 ppb	58.127 %
Concentration per Run 2	88.792 %	92.115 %	0.015 ppb	193,845.913 ppb	18,116.565 ppb	127.155 ppb	64,974.497 ppb	105,406.195 ppb	57.391 %
Concentration per Run 3	90.468 %	98.516 %	0.012 ppb	188,297.100 ppb	17,876.432 ppb	149.885 ppb	66,200.745 ppb	106,108.708 ppb	57.372 %
Concentration RSD	0.9 %	3.6 %	11.7 %	3.2 %	3.5 %	8.3 %	5.2 %	5.6 %	0.7 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	2.844 ppb	2.662 ppb	428.568 ppb	955.170 ppb	0.494 ppb	1.503 ppb	0.779 ppb	2.702 ppb	79.824 %
Concentration per Run 1	2.883 ppb	2.702 ppb	456.173 ppb	1,017.050 ppb	0.494 ppb	1.674 ppb	0.856 ppb	2.879 ppb	76.855 %
Concentration per Run 2	2.544 ppb	2.646 ppb	412.514 ppb	904.406 ppb	0.473 ppb	1.394 ppb	0.692 ppb	2.621 ppb	82.588 %
Concentration per Run 3	3.106 ppb	2.640 ppb	417.018 ppb	944.055 ppb	0.514 ppb	1.441 ppb	0.788 ppb	2.605 ppb	80.028 %
Concentration RSD	9.9 %	1.3 %	5.6 %	6.0 %	4.1 %	10.0 %	10.6 %	5.7 %	3.6 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	9.724 ppb	0.204 ppb	866.537 ppb	5.561 ppb	73.699 %	0.001 ppb	0.000 ppb	76.495 %	0.106 ppb
Concentration per Run 1	10.117 ppb	0.229 ppb	915.635 ppb	5.749 ppb	72.594 %	0.002 ppb	-0.001 ppb	77.506 %	0.054 ppb
Concentration per Run 2	9.146 ppb	0.187 ppb	828.694 ppb	5.340 ppb	74.304 %	0.001 ppb	-0.001 ppb	75.090 %	0.164 ppb
Concentration per Run 3	9.909 ppb	0.197 ppb	855.282 ppb	5.594 ppb	74.200 %	-0.002 ppb	0.003 ppb	76.887 %	0.101 ppb
Concentration RSD	5.3 %	10.7 %	5.1 %	3.7 %	1.3 %	350.1 %	631.9 %	1.6 %	52.0 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	84.056 ppb	56.589 %	55.565 %	0.102 ppb	0.449 ppb	73.330 %
Concentration per Run 1	85.633 ppb	56.550 %	55.634 %	0.058 ppb	0.435 ppb	73.108 %
Concentration per Run 2	83.018 ppb	55.784 %	54.883 %	0.129 ppb	0.447 ppb	73.185 %
Concentration per Run 3	83.518 ppb	57.433 %	56.179 %	0.120 ppb	0.467 ppb	73.697 %
Concentration RSD	1.7 %	1.5 %	1.2 %	38.1 %	3.6 %	0.4 %

Alpha ICPMSQ2 Data with SRD

3/5/2024 9:03:09 PM

Analysis index:	112	User name	ALPHALAB\a2-icpmsq2	Comment	<Comment>
Analysis label:	L2410744-01 6020TL	Rack	1		
Analysis started at:	3/5/2024 3:10:22 PM	Vial	57		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	87.095 %	91.929 %	0.008 ppb	65,607.812 ppb	31,636.126 ppb	15.288 ppb	2,885.005 ppb	17,522.018 ppb	64.868 %
Concentration per Run 1	87.031 %	85.714 %	0.007 ppb	67,205.319 ppb	32,788.232 ppb	15.735 ppb	2,831.953 ppb	17,831.955 ppb	64.594 %
Concentration per Run 2	86.814 %	94.898 %	0.007 ppb	64,547.367 ppb	31,556.557 ppb	16.642 ppb	2,967.803 ppb	17,097.642 ppb	64.323 %
Concentration per Run 3	87.441 %	95.176 %	0.009 ppb	65,070.750 ppb	30,563.588 ppb	13.487 ppb	2,855.258 ppb	17,636.457 ppb	65.687 %
Concentration RSD	0.4 %	5.9 %	16.8 %	2.1 %	3.5 %	10.6 %	2.5 %	2.2 %	1.1 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.995 ppb	39.106 ppb	134.068 ppb	346.345 ppb	1.186 ppb	41.138 ppb	2.196 ppb	1.359 ppb	81.400 %
Concentration per Run 1	0.913 ppb	39.287 ppb	137.093 ppb	376.886 ppb	1.228 ppb	41.253 ppb	2.243 ppb	1.527 ppb	73.982 %
Concentration per Run 2	1.024 ppb	40.220 ppb	135.493 ppb	317.508 ppb	1.246 ppb	42.246 ppb	2.255 ppb	1.390 ppb	81.644 %
Concentration per Run 3	1.048 ppb	37.811 ppb	129.618 ppb	344.642 ppb	1.083 ppb	39.915 ppb	2.090 ppb	1.160 ppb	88.575 %
Concentration RSD	7.3 %	3.1 %	2.9 %	8.6 %	7.5 %	2.8 %	4.2 %	13.6 %	9.0 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.559 ppb	1.989 ppb	57.040 ppb	5.533 ppb	73.587 %	0.000 ppb	0.041 ppb	74.561 %	-0.009 ppb
Concentration per Run 1	0.546 ppb	2.009 ppb	58.481 ppb	5.922 ppb	68.722 %	-0.002 ppb	0.021 ppb	68.691 %	-0.008 ppb
Concentration per Run 2	0.597 ppb	1.818 ppb	57.343 ppb	5.216 ppb	75.676 %	0.001 ppb	0.042 ppb	76.709 %	-0.005 ppb
Concentration per Run 3	0.535 ppb	2.141 ppb	55.297 ppb	5.461 ppb	76.362 %	0.001 ppb	0.060 ppb	78.284 %	-0.014 ppb
Concentration RSD	6.0 %	8.2 %	2.8 %	6.5 %	5.7 %	1,698.5 %	48.4 %	6.9 %	52.5 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	67.231 ppb	61.132 %	59.823 %	0.065 ppb	0.067 ppb	74.673 %
Concentration per Run 1	67.124 ppb	56.082 %	56.302 %	0.039 ppb	0.059 ppb	71.161 %
Concentration per Run 2	68.638 ppb	62.387 %	60.756 %	0.089 ppb	0.076 ppb	74.265 %
Concentration per Run 3	65.931 ppb	64.927 %	62.412 %	0.068 ppb	0.065 ppb	78.594 %
Concentration RSD	2.0 %	7.4 %	5.3 %	38.3 %	12.5 %	5.0 %

Alpha ICPMSQ2 Data with SRD

3/5/2024 9:03:09 PM

Analysis index: 113 User name ALPHALAB\a2-icpmsq2 Comment <Comment>
Analysis label: L2410744-02 6020TL Rack 1
Analysis started at: 3/5/2024 3:14:51 PM Vial 58

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	85.528 %	89.239 %	0.009 ppb	149,377.096 ppb	34,351.172 ppb	50.519 ppb	5,577.664 ppb	52,459.714 ppb	63.602 %
Concentration per Run 1	84.871 %	88.775 %	0.009 ppb	147,714.578 ppb	33,768.085 ppb	48.547 ppb	5,440.708 ppb	52,238.658 ppb	63.773 %
Concentration per Run 2	85.609 %	85.436 %	0.010 ppb	157,585.944 ppb	36,436.469 ppb	54.203 ppb	5,857.332 ppb	55,556.450 ppb	63.186 %
Concentration per Run 3	86.105 %	93.506 %	0.009 ppb	142,830.766 ppb	32,848.963 ppb	48.805 ppb	5,434.952 ppb	49,584.034 ppb	63.845 %
Concentration RSD	0.7 %	4.5 %	8.9 %	5.0 %	5.4 %	6.3 %	4.3 %	5.7 %	0.6 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.692 ppb	124.521 ppb	2,074.533 ppb	6,806.343 ppb	1.678 ppb	69.499 ppb	5.276 ppb	1.533 ppb	82.233 %
Concentration per Run 1	0.612 ppb	129.235 ppb	2,142.457 ppb	7,162.638 ppb	1.747 ppb	73.348 ppb	5.627 ppb	1.523 ppb	75.823 %
Concentration per Run 2	0.946 ppb	124.189 ppb	2,100.469 ppb	6,706.810 ppb	1.665 ppb	69.506 ppb	4.925 ppb	1.619 ppb	85.581 %
Concentration per Run 3	0.519 ppb	120.140 ppb	1,980.673 ppb	6,549.582 ppb	1.622 ppb	65.645 ppb	5.276 ppb	1.457 ppb	85.296 %
Concentration RSD	32.5 %	3.7 %	4.0 %	4.7 %	3.8 %	5.5 %	6.7 %	5.3 %	6.8 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	4.022 ppb	0.110 ppb	218.422 ppb	4.545 ppb	75.199 %	0.011 ppb	0.019 ppb	78.032 %	-0.008 ppb
Concentration per Run 1	4.132 ppb	-0.097 ppb	220.687 ppb	4.574 ppb	73.265 %	0.011 ppb	0.007 ppb	74.772 %	-0.006 ppb
Concentration per Run 2	4.063 ppb	0.211 ppb	223.911 ppb	4.535 ppb	75.859 %	0.008 ppb	0.025 ppb	80.878 %	0.002 ppb
Concentration per Run 3	3.872 ppb	0.214 ppb	210.667 ppb	4.526 ppb	76.473 %	0.014 ppb	0.026 ppb	78.446 %	-0.019 ppb
Concentration RSD	3.3 %	163.1 %	3.2 %	0.6 %	2.3 %	27.4 %	55.1 %	3.9 %	137.0 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	188.223 ppb	59.728 %	57.993 %	0.045 ppb	2.423 ppb	75.758 %
Concentration per Run 1	187.710 ppb	57.140 %	54.909 %	0.034 ppb	2.427 ppb	73.378 %
Concentration per Run 2	187.302 ppb	61.133 %	60.125 %	0.051 ppb	2.399 ppb	76.426 %
Concentration per Run 3	189.656 ppb	60.910 %	58.945 %	0.049 ppb	2.442 ppb	77.470 %
Concentration RSD	0.7 %	3.8 %	4.7 %	20.8 %	0.9 %	2.8 %

Alpha ICPMSQ2 Data with SRD

3/5/2024 9:03:09 PM

Analysis index:	114	User name	ALPHALAB\a2-icpmsq2	Comment	<Comment>
Analysis label:	L2410744-03 6020TL	Rack	1		
Analysis started at:	3/5/2024 3:19:20 PM	Vial	59		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	83.955 %	91.280 %	0.008 ppb	70,765.083 ppb	34,122.458 ppb	18.302 ppb	3,059.919 ppb	18,740.348 ppb	58.630 %
Concentration per Run 1	83.503 %	84.044 %	0.002 ppb	72,376.837 ppb	35,034.455 ppb	19.259 ppb	3,079.912 ppb	19,064.371 ppb	58.525 %
Concentration per Run 2	83.725 %	98.794 %	0.010 ppb	68,993.035 ppb	33,155.331 ppb	18.772 ppb	3,101.390 ppb	18,835.963 ppb	57.872 %
Concentration per Run 3	84.636 %	91.002 %	0.013 ppb	70,925.378 ppb	34,177.588 ppb	16.874 ppb	2,998.455 ppb	18,320.710 ppb	59.494 %
Concentration RSD	0.7 %	8.1 %	64.5 %	2.4 %	2.8 %	6.9 %	1.8 %	2.0 %	1.4 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.949 ppb	39.038 ppb	135.310 ppb	306.553 ppb	1.133 ppb	38.241 ppb	2.085 ppb	1.140 ppb	81.237 %
Concentration per Run 1	1.006 ppb	40.397 ppb	138.312 ppb	295.358 ppb	1.247 ppb	39.695 ppb	2.284 ppb	1.096 ppb	76.975 %
Concentration per Run 2	0.867 ppb	37.402 ppb	132.054 ppb	311.153 ppb	1.024 ppb	37.350 ppb	1.891 ppb	1.192 ppb	87.335 %
Concentration per Run 3	0.973 ppb	39.314 ppb	135.563 ppb	313.148 ppb	1.128 ppb	37.678 ppb	2.080 ppb	1.131 ppb	79.401 %
Concentration RSD	7.6 %	3.9 %	2.3 %	3.2 %	9.9 %	3.3 %	9.4 %	4.3 %	6.7 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.544 ppb	1.997 ppb	58.810 ppb	5.336 ppb	74.871 %	0.000 ppb	0.076 ppb	76.953 %	-0.012 ppb
Concentration per Run 1	0.519 ppb	1.999 ppb	58.222 ppb	5.096 ppb	72.307 %	0.001 ppb	0.040 ppb	72.615 %	-0.029 ppb
Concentration per Run 2	0.513 ppb	2.353 ppb	59.568 ppb	5.268 ppb	77.157 %	0.000 ppb	0.084 ppb	81.992 %	-0.002 ppb
Concentration per Run 3	0.600 ppb	1.638 ppb	58.640 ppb	5.643 ppb	75.149 %	0.000 ppb	0.105 ppb	76.251 %	-0.004 ppb
Concentration RSD	8.9 %	17.9 %	1.2 %	5.2 %	3.3 %	644.1 %	43.3 %	6.1 %	130.3 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	70.463 ppb	61.944 %	61.034 %	0.042 ppb	0.051 ppb	74.657 %
Concentration per Run 1	72.015 ppb	57.825 %	57.545 %	0.025 ppb	0.050 ppb	72.755 %
Concentration per Run 2	68.823 ppb	64.958 %	64.126 %	0.047 ppb	0.044 ppb	76.756 %
Concentration per Run 3	70.551 ppb	63.050 %	61.431 %	0.055 ppb	0.059 ppb	74.460 %
Concentration RSD	2.3 %	6.0 %	5.4 %	36.7 %	15.0 %	2.7 %

Alpha ICPMSQ2 Data with SRD

3/5/2024 9:03:09 PM

Analysis index:	115	User name	ALPHALAB\a2-icpmsq2	Comment	<Comment>
Analysis label:	CCV	Rack	0		
Analysis started at:	3/5/2024 3:23:50 PM	Vial	9		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	89.203 %	95.269 %	58.472 ppb	5,229.983 ppb	5,723.802 ppb	54.029 ppb	5,458.340 ppb	5,567.902 ppb	77.843 %
Concentration per Run 1	88.387 %	87.662 %	58.598 ppb	5,412.751 ppb	6,091.367 ppb	57.253 ppb	5,793.055 ppb	5,886.947 ppb	77.714 %
Concentration per Run 2	89.852 %	92.393 %	58.098 ppb	5,516.349 ppb	5,610.771 ppb	53.495 ppb	5,428.587 ppb	5,424.999 ppb	77.784 %
Concentration per Run 3	89.371 %	105.751 %	58.722 ppb	4,760.849 ppb	5,469.267 ppb	51.340 ppb	5,153.377 ppb	5,391.759 ppb	78.030 %
Recovery Percentage 1			97.454 %	87.166 %	95.397 %	90.049 %	90.972 %	92.798 %	
Concentration RSD	0.8 %	9.8 %	0.6 %	7.8 %	5.7 %	5.5 %	5.9 %	5.0 %	0.2 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	54.110 ppb	54.865 ppb	55.643 ppb	5,561.395 ppb	55.725 ppb	56.345 ppb	57.023 ppb	57.017 ppb	86.474 %
Concentration per Run 1	56.346 ppb	57.323 ppb	58.785 ppb	5,949.501 ppb	60.104 ppb	58.595 ppb	61.373 ppb	60.630 ppb	77.307 %
Concentration per Run 2	52.273 ppb	55.526 ppb	54.727 ppb	5,550.601 ppb	54.553 ppb	56.438 ppb	55.355 ppb	55.883 ppb	89.763 %
Concentration per Run 3	53.712 ppb	51.746 ppb	53.417 ppb	5,184.084 ppb	52.519 ppb	54.000 ppb	54.341 ppb	54.538 ppb	92.351 %
Recovery Percentage 1	90.184 %	91.442 %	92.739 %	92.690 %	92.876 %	93.908 %	95.038 %	95.029 %	
Concentration RSD	3.8 %	5.2 %	5.0 %	6.9 %	7.0 %	4.1 %	6.7 %	5.6 %	9.3 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	56.559 ppb	58.032 ppb	57.900 ppb	56.533 ppb	81.391 %	57.085 ppb	58.408 ppb	81.458 %	53.851 ppb
Concentration per Run 1	60.554 ppb	57.829 ppb	58.045 ppb	58.314 ppb	79.185 %	57.724 ppb	58.247 ppb	76.578 %	53.921 ppb
Concentration per Run 2	55.282 ppb	58.880 ppb	59.884 ppb	56.024 ppb	80.928 %	56.568 ppb	58.168 ppb	84.657 %	54.132 ppb
Concentration per Run 3	53.843 ppb	57.385 ppb	55.772 ppb	55.260 ppb	84.060 %	56.964 ppb	58.808 ppb	83.139 %	53.498 ppb
Recovery Percentage 1	94.266 %	96.719 %	96.500 %	94.221 %		95.142 %	97.346 %		89.751 %
Concentration RSD	6.2 %	1.3 %	3.6 %	2.8 %	3.0 %	1.0 %	0.6 %	5.3 %	0.6 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	56.372 ppb	76.377 %	76.431 %	63.175 ppb	64.311 ppb	80.401 %
Concentration per Run 1	56.118 ppb	70.923 %	70.077 %	62.326 ppb	62.990 ppb	78.410 %
Concentration per Run 2	56.829 ppb	77.661 %	80.329 %	62.690 ppb	64.554 ppb	80.881 %
Concentration per Run 3	56.167 ppb	80.547 %	78.887 %	64.508 ppb	65.389 ppb	81.912 %
Recovery Percentage 1	93.953 %			105.291 %	107.185 %	
Concentration RSD	0.7 %	6.5 %	7.3 %	1.8 %	1.9 %	2.2 %

Alpha ICPMSQ2 Data with SRD

3/5/2024 9:03:09 PM

Analysis index:	116	User name	ALPHALAB\a2-icpmsq2	Comment	<Comment>
Analysis label:	CCB	Rack	0		
Analysis started at:	3/5/2024 3:28:21 PM	Vial	10		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	78.629 %	85.714 %	0.005 ppb	-5.152 ppb	-0.975 ppb	-1.078 ppb	7.261 ppb	0.504 ppb	66.699 %
Concentration per Run 1	79.256 %	78.200 %	0.006 ppb	-4.433 ppb	-0.951 ppb	-0.628 ppb	-4.666 ppb	-2.521 ppb	66.967 %
Concentration per Run 2	78.236 %	89.054 %	0.001 ppb	-7.070 ppb	-0.638 ppb	-1.405 ppb	10.339 ppb	0.125 ppb	66.306 %
Concentration per Run 3	78.394 %	89.889 %	0.007 ppb	-3.954 ppb	-1.335 ppb	-1.201 ppb	16.109 ppb	3.910 ppb	66.823 %
Recovery Percentage 1			0.902 %	-5.152 %	-1.392 %	-10.778 %	7.261 %	0.504 %	
Concentration RSD	0.7 %	7.6 %	68.1 %	32.6 %	35.8 %	37.4 %	147.7 %	640.8 %	0.5 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.048 ppb	-0.030 ppb	0.010 ppb	5.124 ppb	0.003 ppb	0.072 ppb	0.003 ppb	0.117 ppb	76.407 %
Concentration per Run 1	0.124 ppb	-0.035 ppb	0.002 ppb	4.842 ppb	-0.002 ppb	0.130 ppb	0.018 ppb	0.133 ppb	78.352 %
Concentration per Run 2	0.027 ppb	-0.042 ppb	-0.026 ppb	5.083 ppb	0.003 ppb	-0.003 ppb	0.017 ppb	0.098 ppb	78.771 %
Concentration per Run 3	-0.006 ppb	-0.013 ppb	0.053 ppb	5.448 ppb	0.009 ppb	0.087 ppb	-0.026 ppb	0.120 ppb	72.097 %
Recovery Percentage 1	0.965 %	-2.985 %	0.960 %	10.249 %	0.698 %	3.577 %	0.300 %	2.342 %	
Concentration RSD	140.7 %	49.4 %	418.4 %	6.0 %	149.6 %	94.9 %	823.4 %	15.5 %	4.9 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.068 ppb	0.070 ppb	-0.004 ppb	0.065 ppb	77.468 %	0.005 ppb	0.000 ppb	75.881 %	0.085 ppb
Concentration per Run 1	0.090 ppb	-0.047 ppb	-0.001 ppb	0.047 ppb	80.238 %	0.003 ppb	-0.001 ppb	77.104 %	0.088 ppb
Concentration per Run 2	0.022 ppb	0.134 ppb	0.000 ppb	0.081 ppb	82.767 %	0.005 ppb	-0.001 ppb	81.472 %	0.094 ppb
Concentration per Run 3	0.091 ppb	0.123 ppb	-0.010 ppb	0.067 ppb	69.400 %	0.006 ppb	0.003 ppb	69.067 %	0.075 ppb
Recovery Percentage 1	13.525 %	1.405 %	-0.038 %	3.254 %		1.230 %	0.242 %		2.136 %
Concentration RSD	58.9 %	144.4 %	138.3 %	25.9 %	9.2 %	34.1 %	510.7 %	8.3 %	11.3 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.024 ppb	76.595 %	76.646 %	0.258 ppb	0.002 ppb	78.092 %
Concentration per Run 1	-0.010 ppb	78.229 %	77.602 %	0.209 ppb	0.000 ppb	81.373 %
Concentration per Run 2	0.052 ppb	81.603 %	81.160 %	0.322 ppb	0.005 ppb	83.616 %
Concentration per Run 3	0.029 ppb	69.953 %	71.176 %	0.242 ppb	0.002 ppb	69.286 %
Recovery Percentage 1	4.732 %			25.768 %	0.233 %	
Concentration RSD	131.6 %	7.8 %	6.6 %	22.6 %	110.8 %	9.9 %

Alpha ICPMSQ2 Data with SRD

3/5/2024 9:03:09 PM

Analysis index:	117	User name	ALPHALAB\a2-icpmsq2	Comment	<Comment>
Analysis label:	CCV	Rack	0		
Analysis started at:	3/5/2024 3:43:21 PM	Vial	9		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	89.255 %	96.197 %	61.362 ppb	5,727.312 ppb	5,753.459 ppb	56.438 ppb	5,816.139 ppb	6,051.289 ppb	81.354 %
Concentration per Run 1	89.518 %	96.846 %	61.397 ppb	5,663.486 ppb	5,686.715 ppb	53.883 ppb	5,888.078 ppb	6,058.792 ppb	80.716 %
Concentration per Run 2	89.952 %	91.558 %	60.944 ppb	5,952.955 ppb	5,969.496 ppb	59.086 ppb	5,834.804 ppb	6,057.251 ppb	82.474 %
Concentration per Run 3	88.295 %	100.186 %	61.746 ppb	5,565.495 ppb	5,604.167 ppb	56.345 ppb	5,725.533 ppb	6,037.824 ppb	80.871 %
Recovery Percentage 1			102.271 %	95.455 %	95.891 %	94.064 %	96.936 %	100.855 %	
Concentration RSD	1.0 %	4.5 %	0.7 %	3.5 %	3.3 %	4.6 %	1.4 %	0.2 %	1.2 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	59.570 ppb	59.160 ppb	59.568 ppb	5,996.725 ppb	60.246 ppb	61.566 ppb	62.335 ppb	60.744 ppb	84.369 %
Concentration per Run 1	59.677 ppb	59.467 ppb	57.597 ppb	6,125.013 ppb	61.129 ppb	63.282 ppb	63.267 ppb	55.580 ppb	81.136 %
Concentration per Run 2	60.166 ppb	59.169 ppb	63.401 ppb	5,948.535 ppb	60.374 ppb	60.202 ppb	61.292 ppb	63.493 ppb	86.199 %
Concentration per Run 3	58.866 ppb	58.845 ppb	57.706 ppb	5,916.627 ppb	59.235 ppb	61.213 ppb	62.447 ppb	63.158 ppb	85.772 %
Recovery Percentage 1	99.283 %	98.601 %	99.280 %	99.945 %	100.410 %	102.609 %	103.892 %	101.240 %	
Concentration RSD	1.1 %	0.5 %	5.6 %	1.9 %	1.6 %	2.6 %	1.6 %	7.4 %	3.3 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	60.622 ppb	59.906 ppb	59.040 ppb	59.393 ppb	85.087 %	60.346 ppb	58.731 ppb	84.657 %	54.893 ppb
Concentration per Run 1	57.942 ppb	53.586 ppb	61.078 ppb	60.404 ppb	84.229 %	61.410 ppb	56.524 ppb	83.341 %	52.939 ppb
Concentration per Run 2	61.399 ppb	61.115 ppb	56.089 ppb	58.547 ppb	84.081 %	59.789 ppb	58.944 ppb	85.186 %	55.013 ppb
Concentration per Run 3	62.524 ppb	65.018 ppb	59.953 ppb	59.228 ppb	86.952 %	59.840 ppb	60.726 ppb	85.443 %	56.727 ppb
Recovery Percentage 1	101.036 %	99.844 %	98.400 %	98.988 %		100.577 %	97.885 %		91.489 %
Concentration RSD	3.9 %	9.7 %	4.4 %	1.6 %	1.9 %	1.5 %	3.6 %	1.4 %	3.5 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	58.174 ppb	80.665 %	78.376 %	65.330 ppb	65.892 ppb	88.309 %
Concentration per Run 1	58.996 ppb	78.193 %	75.725 %	64.341 ppb	64.497 ppb	88.385 %
Concentration per Run 2	57.156 ppb	80.791 %	79.585 %	66.256 ppb	67.605 ppb	87.320 %
Concentration per Run 3	58.371 ppb	83.011 %	79.817 %	65.393 ppb	65.573 ppb	89.221 %
Recovery Percentage 1	96.957 %			108.883 %	109.820 %	
Concentration RSD	1.6 %	3.0 %	2.9 %	1.5 %	2.4 %	1.1 %

Alpha ICPMSQ2 Data with SRD

3/5/2024 9:03:09 PM

Analysis index:	118	User name	ALPHALAB\a2-icpmsq2	Comment	<Comment>
Analysis label:	CCB	Rack	0		
Analysis started at:	3/5/2024 3:47:51 PM	Vial	10		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	82.991 %	79.128 %	0.005 ppb	-6.720 ppb	-0.441 ppb	-1.119 ppb	6.359 ppb	0.471 ppb	73.485 %
Concentration per Run 1	82.013 %	79.870 %	0.006 ppb	-8.009 ppb	0.213 ppb	-1.048 ppb	13.260 ppb	0.478 ppb	73.770 %
Concentration per Run 2	83.234 %	84.044 %	0.003 ppb	-7.681 ppb	-0.200 ppb	-1.059 ppb	0.165 ppb	0.560 ppb	72.661 %
Concentration per Run 3	83.725 %	73.469 %	0.004 ppb	-4.470 ppb	-1.335 ppb	-1.249 ppb	5.652 ppb	0.377 ppb	74.025 %
Recovery Percentage 1			0.939 %	-6.720 %	-0.629 %	-11.185 %	6.359 %	0.471 %	
Concentration RSD	1.1 %	6.7 %	31.5 %	29.1 %	182.0 %	10.1 %	103.4 %	19.4 %	1.0 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.016 ppb	-0.017 ppb	0.051 ppb	4.564 ppb	0.015 ppb	0.061 ppb	0.019 ppb	0.091 ppb	71.941 %
Concentration per Run 1	0.036 ppb	-0.016 ppb	0.007 ppb	3.707 ppb	0.025 ppb	0.098 ppb	-0.002 ppb	0.119 ppb	71.647 %
Concentration per Run 2	-0.042 ppb	-0.009 ppb	0.065 ppb	6.436 ppb	0.005 ppb	0.073 ppb	0.063 ppb	0.074 ppb	66.784 %
Concentration per Run 3	0.053 ppb	-0.028 ppb	0.080 ppb	3.549 ppb	0.014 ppb	0.011 ppb	-0.003 ppb	0.080 ppb	77.394 %
Recovery Percentage 1	0.311 %	-1.746 %	5.063 %	9.128 %	2.922 %	3.038 %	1.920 %	1.822 %	
Concentration RSD	325.8 %	56.5 %	75.4 %	35.6 %	71.5 %	74.3 %	196.1 %	26.5 %	7.4 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.123 ppb	0.066 ppb	0.002 ppb	0.094 ppb	75.108 %	0.002 ppb	0.002 ppb	72.911 %	0.106 ppb
Concentration per Run 1	0.101 ppb	0.074 ppb	0.000 ppb	0.114 ppb	75.218 %	0.001 ppb	-0.001 ppb	73.260 %	0.080 ppb
Concentration per Run 2	0.176 ppb	-0.018 ppb	0.002 ppb	0.117 ppb	74.511 %	0.004 ppb	-0.001 ppb	70.454 %	0.120 ppb
Concentration per Run 3	0.093 ppb	0.143 ppb	0.004 ppb	0.050 ppb	75.596 %	0.001 ppb	0.007 ppb	75.018 %	0.116 ppb
Recovery Percentage 1	24.681 %	1.323 %	0.021 %	4.683 %		0.448 %	0.843 %		2.643 %
Concentration RSD	37.0 %	122.4 %	110.4 %	40.8 %	0.7 %	83.0 %	270.3 %	3.2 %	20.7 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	-0.015 ppb	74.238 %	74.003 %	0.261 ppb	0.008 ppb	76.291 %
Concentration per Run 1	-0.009 ppb	72.833 %	70.744 %	0.191 ppb	0.012 ppb	75.962 %
Concentration per Run 2	-0.026 ppb	72.116 %	73.386 %	0.332 ppb	0.006 ppb	74.926 %
Concentration per Run 3	-0.009 ppb	77.763 %	77.879 %	0.260 ppb	0.006 ppb	77.985 %
Recovery Percentage 1	-2.949 %			26.102 %	0.791 %	
Concentration RSD	66.7 %	4.1 %	4.9 %	27.0 %	40.5 %	2.0 %

Alpha ICPMSQ2 Data with SRD

3/5/2024 9:03:09 PM

Analysis index: 119
Analysis label: I2410792-01 6020TL
Analysis started at: 3/5/2024 3:58:40 PM
User name ALPHALAB\a2-icpmsq2
Rack 1
Vial 16
Comment <Comment>

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	78.231 %	90.538 %	0.008 ppb	33,728.311 ppb	13,358.895 ppb	7.216 ppb	16,371.219 ppb	99,638.744 ppb	55.729 %
Concentration per Run 1	78.332 %	102.412 %	0.006 ppb	29,794.960 ppb	11,797.301 ppb	4.719 ppb	15,130.704 ppb	92,747.195 ppb	55.319 %
Concentration per Run 2	77.762 %	85.436 %	0.011 ppb	35,147.520 ppb	13,644.955 ppb	8.251 ppb	16,705.972 ppb	100,480.704 ppb	56.108 %
Concentration per Run 3	78.598 %	83.766 %	0.009 ppb	36,242.455 ppb	14,634.430 ppb	8.677 ppb	17,276.982 ppb	105,688.333 ppb	55.759 %
Concentration RSD	0.5 %	11.4 %	29.4 %	10.2 %	10.8 %	30.1 %	6.8 %	6.5 %	0.7 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.241 ppb	0.475 ppb	1,034.812 ppb	30,189.690 ppb	1.304 ppb	0.726 ppb	0.176 ppb	1.260 ppb	83.461 %
Concentration per Run 1	0.159 ppb	0.426 ppb	960.356 ppb	27,729.061 ppb	1.258 ppb	0.759 ppb	0.175 ppb	1.150 ppb	87.529 %
Concentration per Run 2	0.319 ppb	0.483 ppb	1,065.061 ppb	30,823.143 ppb	1.353 ppb	0.735 ppb	0.270 ppb	1.398 ppb	83.905 %
Concentration per Run 3	0.246 ppb	0.515 ppb	1,079.018 ppb	32,016.868 ppb	1.302 ppb	0.683 ppb	0.082 ppb	1.231 ppb	78.950 %
Concentration RSD	33.2 %	9.5 %	6.3 %	7.3 %	3.6 %	5.4 %	53.6 %	10.0 %	5.2 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	4.892 ppb	-0.007 ppb	374.792 ppb	0.038 ppb	80.515 %	0.002 ppb	0.000 ppb	82.159 %	-0.029 ppb
Concentration per Run 1	4.338 ppb	-0.131 ppb	361.139 ppb	0.034 ppb	81.124 %	0.000 ppb	0.003 ppb	80.937 %	-0.040 ppb
Concentration per Run 2	5.310 ppb	0.138 ppb	375.213 ppb	0.069 ppb	81.355 %	0.005 ppb	-0.001 ppb	84.666 %	-0.033 ppb
Concentration per Run 3	5.029 ppb	-0.028 ppb	388.024 ppb	0.012 ppb	79.067 %	0.001 ppb	-0.001 ppb	80.875 %	-0.013 ppb
Concentration RSD	10.2 %	1,941.7 %	3.6 %	75.0 %	1.6 %	157.7 %	765.5 %	2.6 %	47.8 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	87.771 ppb	64.306 %	62.576 %	0.049 ppb	0.032 ppb	83.553 %
Concentration per Run 1	88.711 ppb	63.850 %	61.574 %	0.031 ppb	0.032 ppb	84.955 %
Concentration per Run 2	87.271 ppb	65.315 %	62.950 %	0.055 ppb	0.031 ppb	84.159 %
Concentration per Run 3	87.331 ppb	63.753 %	63.203 %	0.062 ppb	0.032 ppb	81.544 %
Concentration RSD	0.9 %	1.4 %	1.4 %	33.2 %	3.3 %	2.1 %

Alpha ICPMSQ2 Data with SRD

3/5/2024 9:03:09 PM

Analysis index:	120	User name	ALPHALAB\a2-icpmsq2	Comment	<Comment>
Analysis label:	I2410812-01 6020TL	Rack	1		
Analysis started at:	3/5/2024 4:03:07 PM	Vial	17		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	89.692 %	92.950 %	0.089 ppb	5,481.366 ppb	23,469.603 ppb	1,570.272 ppb	2,035.300 ppb	115,661.642 ppb	61.528 %
Concentration per Run 1	88.496 %	94.063 %	0.092 ppb	5,330.892 ppb	23,046.812 ppb	1,554.869 ppb	2,053.687 ppb	112,443.630 ppb	61.540 %
Concentration per Run 2	90.447 %	86.271 %	0.079 ppb	5,810.402 ppb	24,401.231 ppb	1,642.220 ppb	2,103.103 ppb	118,480.076 ppb	62.000 %
Concentration per Run 3	90.133 %	98.516 %	0.096 ppb	5,302.805 ppb	22,960.766 ppb	1,513.725 ppb	1,949.111 ppb	116,061.219 ppb	61.043 %
Concentration RSD	1.2 %	6.7 %	10.0 %	5.2 %	3.4 %	4.2 %	3.9 %	2.6 %	0.8 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	3.047 ppb	4.588 ppb	2,387.629 ppb	10,117.481 ppb	2.789 ppb	6.141 ppb	4.591 ppb	26.382 ppb	80.413 %
Concentration per Run 1	3.418 ppb	4.380 ppb	2,280.210 ppb	9,591.894 ppb	2.798 ppb	6.350 ppb	4.526 ppb	25.220 ppb	83.306 %
Concentration per Run 2	2.901 ppb	4.798 ppb	2,451.257 ppb	10,339.788 ppb	2.836 ppb	5.733 ppb	4.337 ppb	26.681 ppb	79.640 %
Concentration per Run 3	2.822 ppb	4.584 ppb	2,431.419 ppb	10,420.761 ppb	2.732 ppb	6.341 ppb	4.908 ppb	27.244 ppb	78.292 %
Concentration RSD	10.6 %	4.6 %	3.9 %	4.5 %	1.9 %	5.8 %	6.3 %	4.0 %	3.2 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	15.573 ppb	0.484 ppb	370.947 ppb	1.177 ppb	76.239 %	0.012 ppb	0.036 ppb	77.874 %	0.023 ppb
Concentration per Run 1	14.587 ppb	0.323 ppb	365.544 ppb	1.167 ppb	74.228 %	0.008 ppb	0.043 ppb	75.319 %	-0.002 ppb
Concentration per Run 2	15.964 ppb	0.453 ppb	371.742 ppb	1.232 ppb	76.376 %	0.016 ppb	0.029 ppb	79.163 %	0.034 ppb
Concentration per Run 3	16.168 ppb	0.676 ppb	375.555 ppb	1.133 ppb	78.112 %	0.011 ppb	0.037 ppb	79.140 %	0.039 ppb
Concentration RSD	5.5 %	36.9 %	1.4 %	4.2 %	2.6 %	33.5 %	18.3 %	2.8 %	95.9 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	66.144 ppb	56.349 %	53.186 %	0.066 ppb	4.296 ppb	77.796 %
Concentration per Run 1	66.620 ppb	54.421 %	51.607 %	0.052 ppb	4.234 ppb	76.442 %
Concentration per Run 2	64.812 ppb	56.644 %	52.984 %	0.071 ppb	4.271 ppb	77.969 %
Concentration per Run 3	67.000 ppb	57.981 %	54.968 %	0.075 ppb	4.382 ppb	78.975 %
Concentration RSD	1.8 %	3.2 %	3.2 %	18.3 %	1.8 %	1.6 %

Alpha ICPMSQ2 Data with SRD

3/5/2024 9:03:09 PM

Analysis index:	121	User name	ALPHALAB\a2-icpmsq2	Comment	<Comment>
Analysis label:	I2410812-02 6020TL	Rack	1		
Analysis started at:	3/5/2024 4:07:34 PM	Vial	18		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	89.705 %	92.486 %	0.595 ppb	7,988.411 ppb	65,514.975 ppb	7,794.198 ppb	4,149.352 ppb	891,056.173 ppb	66.565 %
Concentration per Run 1	89.890 %	85.992 %	0.585 ppb	8,133.672 ppb	66,590.993 ppb	8,005.210 ppb	4,273.896 ppb	898,701.686 ppb	66.953 %
Concentration per Run 2	90.210 %	94.341 %	0.602 ppb	8,023.113 ppb	66,137.032 ppb	7,817.821 ppb	4,162.378 ppb	899,787.767 ppb	66.988 %
Concentration per Run 3	89.016 %	97.124 %	0.597 ppb	7,808.449 ppb	63,816.900 ppb	7,559.564 ppb	4,011.780 ppb	874,679.066 ppb	65.752 %
Concentration RSD	0.7 %	6.3 %	1.5 %	2.1 %	2.3 %	2.9 %	3.2 %	1.6 %	1.1 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	17.672 ppb	15.488 ppb	7,586.215 ppb	39,950.694 ppb	32.947 ppb	36.403 ppb	49.668 ppb	71.910 ppb	86.881 %
Concentration per Run 1	17.710 ppb	15.121 ppb	7,626.695 ppb	39,538.723 ppb	33.158 ppb	36.294 ppb	50.004 ppb	71.129 ppb	84.841 %
Concentration per Run 2	17.443 ppb	16.311 ppb	7,685.857 ppb	40,829.811 ppb	33.821 ppb	38.547 ppb	51.308 ppb	74.828 ppb	85.186 %
Concentration per Run 3	17.864 ppb	15.033 ppb	7,446.092 ppb	39,483.549 ppb	31.861 ppb	34.368 ppb	47.693 ppb	69.773 ppb	90.617 %
Concentration RSD	1.2 %	4.6 %	1.6 %	1.9 %	3.0 %	5.7 %	3.7 %	3.6 %	3.7 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	11.645 ppb	3.741 ppb	1,607.499 ppb	0.317 ppb	78.510 %	0.089 ppb	0.409 ppb	82.260 %	0.036 ppb
Concentration per Run 1	11.286 ppb	3.997 ppb	1,585.956 ppb	0.240 ppb	76.102 %	0.090 ppb	0.390 ppb	77.966 %	-0.004 ppb
Concentration per Run 2	12.322 ppb	3.854 ppb	1,651.753 ppb	0.341 ppb	78.073 %	0.097 ppb	0.456 ppb	83.808 %	0.057 ppb
Concentration per Run 3	11.326 ppb	3.373 ppb	1,584.787 ppb	0.371 ppb	81.354 %	0.080 ppb	0.382 ppb	85.006 %	0.054 ppb
Concentration RSD	5.0 %	8.7 %	2.4 %	21.6 %	3.4 %	9.9 %	9.9 %	4.6 %	97.5 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	621.574 ppb	46.906 %	41.472 %	0.207 ppb	16.638 ppb	76.279 %
Concentration per Run 1	627.333 ppb	45.016 %	39.966 %	0.175 ppb	16.196 ppb	74.619 %
Concentration per Run 2	618.941 ppb	47.780 %	42.437 %	0.222 ppb	16.677 ppb	77.474 %
Concentration per Run 3	618.448 ppb	47.921 %	42.014 %	0.223 ppb	17.042 ppb	76.743 %
Concentration RSD	0.8 %	3.5 %	3.2 %	13.2 %	2.6 %	1.9 %

Alpha ICPMSQ2 Data with SRD

3/5/2024 9:03:09 PM

Analysis index:	122	User name	ALPHALAB\a2-icpmsq2	Comment	<Comment>
Analysis label:	I2410812-03 6020TL	Rack	1		
Analysis started at:	3/5/2024 4:12:01 PM	Vial	19		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	93.243 %	99.443 %	0.853 ppb	10,345.745 ppb	49,067.578 ppb	7,818.843 ppb	5,647.140 ppb	179,969.168 ppb	68.677 %
Concentration per Run 1	93.358 %	97.959 %	0.867 ppb	10,292.193 ppb	49,005.053 ppb	7,908.677 ppb	5,593.141 ppb	178,954.160 ppb	68.775 %
Concentration per Run 2	92.952 %	102.690 %	0.822 ppb	10,073.197 ppb	47,516.470 ppb	7,618.568 ppb	5,710.849 ppb	181,012.292 ppb	68.685 %
Concentration per Run 3	93.418 %	97.681 %	0.871 ppb	10,671.845 ppb	50,681.212 ppb	7,929.284 ppb	5,637.432 ppb	179,941.052 ppb	68.571 %
Concentration RSD	0.3 %	2.8 %	3.2 %	2.9 %	3.2 %	2.2 %	1.1 %	0.6 %	0.1 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	23.574 ppb	22.737 ppb	2,507.116 ppb	56,603.308 ppb	22.167 ppb	50.692 ppb	238.139 ppb	246.724 ppb	82.853 %
Concentration per Run 1	23.143 ppb	22.938 ppb	2,470.970 ppb	55,777.487 ppb	21.812 ppb	49.849 ppb	235.247 ppb	242.133 ppb	83.715 %
Concentration per Run 2	23.794 ppb	22.981 ppb	2,534.807 ppb	57,464.912 ppb	22.747 ppb	51.014 ppb	247.136 ppb	255.843 ppb	78.939 %
Concentration per Run 3	23.785 ppb	22.292 ppb	2,515.572 ppb	56,567.524 ppb	21.942 ppb	51.213 ppb	232.035 ppb	242.198 ppb	85.904 %
Concentration RSD	1.6 %	1.7 %	1.3 %	1.5 %	2.3 %	1.5 %	3.3 %	3.2 %	4.3 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	28.031 ppb	2.540 ppb	949.579 ppb	2.102 ppb	76.118 %	0.480 ppb	0.578 ppb	76.642 %	2.600 ppb
Concentration per Run 1	26.661 ppb	2.667 ppb	942.091 ppb	2.108 ppb	75.508 %	0.423 ppb	0.558 ppb	75.402 %	2.528 ppb
Concentration per Run 2	29.383 ppb	2.589 ppb	969.606 ppb	2.056 ppb	75.641 %	0.517 ppb	0.624 ppb	75.412 %	2.620 ppb
Concentration per Run 3	28.050 ppb	2.365 ppb	937.040 ppb	2.143 ppb	77.206 %	0.500 ppb	0.551 ppb	79.112 %	2.653 ppb
Concentration RSD	4.9 %	6.2 %	1.8 %	2.1 %	1.2 %	10.5 %	7.0 %	2.8 %	2.5 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	272.833 ppb	51.093 %	46.117 %	0.664 ppb	360.570 ppb	76.762 %
Concentration per Run 1	274.585 ppb	50.796 %	46.163 %	0.646 ppb	346.102 ppb	76.246 %
Concentration per Run 2	274.548 ppb	50.556 %	45.485 %	0.659 ppb	365.380 ppb	76.487 %
Concentration per Run 3	269.365 ppb	51.926 %	46.703 %	0.687 ppb	370.229 ppb	77.554 %
Concentration RSD	1.1 %	1.4 %	1.3 %	3.1 %	3.5 %	0.9 %

Alpha ICPMSQ2 Data with SRD

3/5/2024 9:03:09 PM

Analysis index:	123	User name	ALPHALAB\a2-icpmsq2	Comment	<Comment>
Analysis label:	I2410812-04 6020TL	Rack	1		
Analysis started at:	3/5/2024 4:16:29 PM	Vial	20		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	92.431 %	95.176 %	0.970 ppb	13,862.339 ppb	45,125.223 ppb	9,932.317 ppb	4,920.732 ppb	197,189.282 ppb	63.163 %
Concentration per Run 1	90.893 %	96.846 %	1.002 ppb	13,898.060 ppb	44,465.802 ppb	9,927.189 ppb	4,959.298 ppb	201,147.448 ppb	61.835 %
Concentration per Run 2	93.008 %	93.228 %	0.972 ppb	13,785.334 ppb	45,125.241 ppb	9,946.129 ppb	4,912.197 ppb	194,383.595 ppb	63.917 %
Concentration per Run 3	93.393 %	95.454 %	0.936 ppb	13,903.622 ppb	45,784.626 ppb	9,923.634 ppb	4,890.702 ppb	196,036.803 ppb	63.736 %
Concentration RSD	1.5 %	1.9 %	3.4 %	0.5 %	1.5 %	0.1 %	0.7 %	1.8 %	1.8 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	27.638 ppb	31.096 ppb	1,479.538 ppb	67,405.784 ppb	18.983 ppb	47.933 ppb	100.799 ppb	656.376 ppb	77.465 %
Concentration per Run 1	28.289 ppb	31.179 ppb	1,484.961 ppb	68,904.110 ppb	19.926 ppb	50.082 ppb	105.059 ppb	660.188 ppb	72.238 %
Concentration per Run 2	26.335 ppb	31.397 ppb	1,478.213 ppb	66,395.648 ppb	18.530 ppb	46.920 ppb	98.520 ppb	655.115 ppb	79.330 %
Concentration per Run 3	28.289 ppb	30.712 ppb	1,475.441 ppb	66,917.592 ppb	18.495 ppb	46.796 ppb	98.819 ppb	653.825 ppb	80.827 %
Concentration RSD	4.1 %	1.1 %	0.3 %	2.0 %	4.3 %	3.9 %	3.7 %	0.5 %	5.9 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	23.139 ppb	3.748 ppb	779.948 ppb	2.410 ppb	71.609 %	0.281 ppb	1.325 ppb	72.150 %	1.259 ppb
Concentration per Run 1	23.770 ppb	4.272 ppb	785.496 ppb	2.574 ppb	69.059 %	0.302 ppb	1.266 ppb	71.228 %	1.358 ppb
Concentration per Run 2	22.785 ppb	3.033 ppb	777.958 ppb	2.355 ppb	72.559 %	0.277 ppb	1.404 ppb	72.420 %	1.176 ppb
Concentration per Run 3	22.863 ppb	3.940 ppb	776.390 ppb	2.302 ppb	73.207 %	0.264 ppb	1.305 ppb	72.802 %	1.243 ppb
Concentration RSD	2.4 %	17.1 %	0.6 %	6.0 %	3.1 %	6.8 %	5.4 %	1.1 %	7.3 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	341.960 ppb	48.451 %	43.449 %	0.367 ppb	224.079 ppb	70.665 %
Concentration per Run 1	339.395 ppb	46.794 %	41.910 %	0.333 ppb	220.941 ppb	70.134 %
Concentration per Run 2	342.416 ppb	48.732 %	43.803 %	0.381 ppb	227.767 ppb	70.376 %
Concentration per Run 3	344.069 ppb	49.829 %	44.633 %	0.387 ppb	223.530 ppb	71.485 %
Concentration RSD	0.7 %	3.2 %	3.2 %	8.0 %	1.5 %	1.0 %

Alpha ICPMSQ2 Data with SRD

3/5/2024 9:03:09 PM

Analysis index:	124	User name	ALPHALAB\a2-icpmsq2	Comment	<Comment>
Analysis label:	CCV	Rack	0		
Analysis started at:	3/5/2024 4:21:19 PM	Vial	9		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	90.799 %	87.848 %	59.886 ppb	5,653.469 ppb	5,672.175 ppb	60.547 ppb	5,595.393 ppb	5,595.906 ppb	80.891 %
Concentration per Run 1	90.369 %	85.992 %	60.324 ppb	5,383.519 ppb	5,464.100 ppb	59.863 ppb	5,463.643 ppb	5,334.556 ppb	80.182 %
Concentration per Run 2	91.080 %	89.054 %	59.429 ppb	5,669.024 ppb	5,634.446 ppb	59.845 ppb	5,422.306 ppb	5,620.876 ppb	80.743 %
Concentration per Run 3	90.947 %	88.497 %	59.906 ppb	5,907.864 ppb	5,917.980 ppb	61.934 ppb	5,900.228 ppb	5,832.286 ppb	81.747 %
Recovery Percentage 1			99.810 %	94.224 %	94.536 %	100.912 %	93.257 %	93.265 %	
Concentration RSD	0.4 %	1.9 %	0.7 %	4.6 %	4.0 %	2.0 %	4.7 %	4.5 %	1.0 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	57.667 ppb	58.443 ppb	57.595 ppb	5,875.187 ppb	60.985 ppb	61.214 ppb	61.524 ppb	60.250 ppb	79.322 %
Concentration per Run 1	55.993 ppb	57.508 ppb	56.952 ppb	5,764.284 ppb	60.765 ppb	60.731 ppb	62.226 ppb	58.391 ppb	70.329 %
Concentration per Run 2	56.940 ppb	56.620 ppb	55.991 ppb	5,641.866 ppb	58.616 ppb	59.687 ppb	58.939 ppb	59.792 ppb	82.931 %
Concentration per Run 3	60.068 ppb	61.200 ppb	59.842 ppb	6,219.411 ppb	63.576 ppb	63.225 ppb	63.409 ppb	62.566 ppb	84.706 %
Recovery Percentage 1	96.111 %	97.405 %	95.992 %	97.920 %	101.642 %	102.024 %	102.541 %	100.417 %	
Concentration RSD	3.7 %	4.2 %	3.5 %	5.2 %	4.1 %	3.0 %	3.8 %	3.5 %	9.9 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	60.546 ppb	60.703 ppb	58.184 ppb	59.755 ppb	79.096 %	59.335 ppb	59.562 ppb	78.584 %	55.020 ppb
Concentration per Run 1	59.604 ppb	58.198 ppb	58.378 ppb	61.065 ppb	73.618 %	59.777 ppb	59.942 ppb	71.868 %	54.762 ppb
Concentration per Run 2	60.996 ppb	62.716 ppb	56.525 ppb	57.539 ppb	81.159 %	57.957 ppb	58.576 ppb	81.287 %	53.960 ppb
Concentration per Run 3	61.039 ppb	61.194 ppb	59.650 ppb	60.661 ppb	82.510 %	60.270 ppb	60.168 ppb	82.598 %	56.339 ppb
Recovery Percentage 1	100.911 %	101.171 %	96.974 %	99.591 %		98.891 %	99.270 %		91.701 %
Concentration RSD	1.3 %	3.8 %	2.7 %	3.2 %	6.1 %	2.1 %	1.4 %	7.4 %	2.2 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	58.315 ppb	73.833 %	72.413 %	63.692 ppb	64.395 ppb	78.928 %
Concentration per Run 1	58.597 ppb	68.659 %	64.833 %	63.878 ppb	63.869 ppb	73.248 %
Concentration per Run 2	56.920 ppb	75.627 %	74.064 %	64.145 ppb	65.115 ppb	79.084 %
Concentration per Run 3	59.426 ppb	77.212 %	78.342 %	63.053 ppb	64.201 ppb	84.452 %
Recovery Percentage 1	97.191 %			106.154 %	107.325 %	
Concentration RSD	2.2 %	6.2 %	9.5 %	0.9 %	1.0 %	7.1 %

Alpha ICPMSQ2 Data with SRD

3/5/2024 9:03:09 PM

Analysis index:	125	User name	ALPHALAB\a2-icpmsq2	Comment	<Comment>
Analysis label:	CCB	Rack	0		
Analysis started at:	3/5/2024 4:25:49 PM	Vial	10		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	89.406 %	88.312 %	0.007 ppb	-7.747 ppb	-0.901 ppb	-0.568 ppb	-1.585 ppb	-2.766 ppb	82.160 %
Concentration per Run 1	88.989 %	75.974 %	0.005 ppb	-6.733 ppb	-1.335 ppb	-0.712 ppb	14.399 ppb	0.262 ppb	83.024 %
Concentration per Run 2	90.071 %	90.445 %	0.010 ppb	-7.336 ppb	-0.994 ppb	-0.555 ppb	-7.445 ppb	-2.957 ppb	82.543 %
Concentration per Run 3	89.159 %	98.516 %	0.006 ppb	-9.171 ppb	-0.373 ppb	-0.437 ppb	-11.709 ppb	-5.603 ppb	80.912 %
Recovery Percentage 1			1.416 %	-7.747 %	-1.287 %	-5.677 %	-1.585 %	-2.766 %	
Concentration RSD	0.7 %	12.9 %	30.5 %	16.4 %	54.2 %	24.3 %	883.5 %	106.2 %	1.3 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.001 ppb	-0.010 ppb	0.044 ppb	7.939 ppb	-0.002 ppb	0.036 ppb	0.002 ppb	0.108 ppb	80.079 %
Concentration per Run 1	-0.024 ppb	0.009 ppb	0.053 ppb	6.348 ppb	-0.001 ppb	0.081 ppb	0.019 ppb	0.156 ppb	77.499 %
Concentration per Run 2	0.006 ppb	-0.004 ppb	0.085 ppb	8.775 ppb	0.003 ppb	0.022 ppb	-0.016 ppb	0.072 ppb	82.229 %
Concentration per Run 3	0.022 ppb	-0.034 ppb	-0.007 ppb	8.693 ppb	-0.007 ppb	0.004 ppb	0.004 ppb	0.097 ppb	80.510 %
Recovery Percentage 1	0.028 %	-0.971 %	4.397 %	15.878 %	-0.347 %	1.785 %	0.222 %	2.161 %	
Concentration RSD	1,666.9 %	224.6 %	106.3 %	17.4 %	267.9 %	113.2 %	793.3 %	39.9 %	3.0 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.086 ppb	0.117 ppb	-0.001 ppb	0.081 ppb	81.937 %	0.004 ppb	-0.001 ppb	80.811 %	0.065 ppb
Concentration per Run 1	0.067 ppb	0.077 ppb	0.002 ppb	0.070 ppb	81.229 %	0.004 ppb	-0.001 ppb	80.852 %	0.059 ppb
Concentration per Run 2	0.073 ppb	0.255 ppb	-0.008 ppb	0.107 ppb	78.356 %	0.008 ppb	-0.001 ppb	77.032 %	0.065 ppb
Concentration per Run 3	0.117 ppb	0.018 ppb	0.003 ppb	0.067 ppb	86.226 %	0.000 ppb	-0.001 ppb	84.551 %	0.072 ppb
Recovery Percentage 1	17.136 %	2.335 %	-0.010 %	4.068 %		0.970 %	-0.472 %		1.635 %
Concentration RSD	32.2 %	105.8 %	583.2 %	27.2 %	4.9 %	108.2 %	0.0 %	4.7 %	10.2 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.021 ppb	81.948 %	81.528 %	0.252 ppb	0.015 ppb	81.838 %
Concentration per Run 1	0.022 ppb	78.900 %	78.349 %	0.202 ppb	0.016 ppb	79.770 %
Concentration per Run 2	0.023 ppb	79.888 %	81.411 %	0.302 ppb	0.015 ppb	80.475 %
Concentration per Run 3	0.018 ppb	87.057 %	84.824 %	0.253 ppb	0.016 ppb	85.270 %
Recovery Percentage 1	4.172 %			25.246 %	1.533 %	
Concentration RSD	10.5 %	5.4 %	4.0 %	19.9 %	4.4 %	3.7 %

Alpha ICPMSQ2 Data with SRD

3/5/2024 9:03:09 PM

Analysis index:	126	User name	ALPHALAB\a2-icpmsq2	Comment	<Comment>
Analysis label:	WG1890905-3d20 6020TL	Rack	2		
Analysis started at:	3/5/2024 4:30:45 PM	Vial	26		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	84.714 %	84.415 %	2.401 ppb	381,267.226 ppb	1,448.182 ppb	600.106 ppb	1,831.733 ppb	5,425.398 ppb	69.967 %
Concentration per Run 1	84.870 %	84.044 %	2.380 ppb	365,811.613 ppb	1,416.710 ppb	582.325 ppb	1,771.106 ppb	5,033.056 ppb	70.216 %
Concentration per Run 2	84.980 %	74.582 %	2.377 ppb	411,667.541 ppb	1,510.489 ppb	640.932 ppb	1,907.396 ppb	5,607.184 ppb	69.543 %
Concentration per Run 3	84.291 %	94.620 %	2.445 ppb	366,322.525 ppb	1,417.346 ppb	577.060 ppb	1,816.698 ppb	5,635.956 ppb	70.144 %
Concentration RSD	0.4 %	11.9 %	1.6 %	6.9 %	3.7 %	5.9 %	3.8 %	6.3 %	0.5 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	27.111 ppb	12.506 ppb	70.425 ppb	3,976.696 ppb	25.406 ppb	34.640 ppb	16.316 ppb	303.760 ppb	74.591 %
Concentration per Run 1	26.602 ppb	12.216 ppb	68.798 ppb	3,803.449 ppb	24.985 ppb	33.812 ppb	15.716 ppb	296.093 ppb	71.812 %
Concentration per Run 2	28.184 ppb	13.186 ppb	72.621 ppb	4,297.386 ppb	27.047 ppb	37.499 ppb	17.156 ppb	321.777 ppb	71.946 %
Concentration per Run 3	26.548 ppb	12.117 ppb	69.856 ppb	3,829.254 ppb	24.187 ppb	32.609 ppb	16.077 ppb	293.409 ppb	80.014 %
Concentration RSD	3.4 %	4.7 %	2.8 %	7.0 %	5.8 %	7.4 %	4.6 %	5.2 %	6.3 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	6.054 ppb	0.833 ppb	91.285 ppb	51.936 ppb	71.526 %	2.268 ppb	2.634 ppb	71.955 %	22.984 ppb
Concentration per Run 1	6.217 ppb	0.846 ppb	88.381 ppb	51.941 ppb	65.981 %	2.254 ppb	2.551 ppb	64.349 %	23.436 ppb
Concentration per Run 2	5.923 ppb	0.749 ppb	94.040 ppb	52.162 ppb	73.685 %	2.342 ppb	2.806 ppb	75.281 %	22.666 ppb
Concentration per Run 3	6.022 ppb	0.902 ppb	91.433 ppb	51.705 ppb	74.910 %	2.208 ppb	2.544 ppb	76.234 %	22.849 ppb
Concentration RSD	2.5 %	9.3 %	3.1 %	0.4 %	6.8 %	3.0 %	5.7 %	9.2 %	1.8 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	130.012 ppb	68.036 %	65.918 %	6.590 ppb	42.181 ppb	68.759 %
Concentration per Run 1	132.108 ppb	62.192 %	59.834 %	6.315 ppb	41.159 ppb	64.885 %
Concentration per Run 2	128.823 ppb	70.963 %	68.121 %	6.726 ppb	42.906 ppb	68.933 %
Concentration per Run 3	129.106 ppb	70.952 %	69.798 %	6.729 ppb	42.477 ppb	72.460 %
Concentration RSD	1.4 %	7.4 %	8.1 %	3.6 %	2.2 %	5.5 %

Alpha ICPMSQ2 Data with SRD

3/5/2024 9:03:09 PM

Analysis index:	127	User name	ALPHALAB\a2-icpmsq2	Comment	<Comment>
Analysis label:	xWG1890905-5d10 6020TL	Rack	2		
Analysis started at:	3/5/2024 4:36:23 PM	Vial	28		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	79.175 %	88.033 %	41.917 ppb	749,928.797 ppb	6,227.880 ppb	991.749 ppb	7,004.762 ppb	14,020.506 ppb	62.778 %
Concentration per Run 1	79.886 %	82.096 %	41.948 ppb	748,494.272 ppb	6,254.129 ppb	989.447 ppb	7,074.473 ppb	13,866.748 ppb	64.693 %
Concentration per Run 2	77.070 %	87.384 %	42.309 ppb	757,531.773 ppb	6,348.043 ppb	1,008.052 ppb	6,924.278 ppb	14,108.689 ppb	59.145 %
Concentration per Run 3	80.570 %	94.620 %	41.494 ppb	743,760.345 ppb	6,081.467 ppb	977.747 ppb	7,015.536 ppb	14,086.080 ppb	64.495 %
Concentration RSD	2.3 %	7.1 %	1.0 %	0.9 %	2.2 %	1.5 %	1.1 %	1.0 %	5.0 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	49.807 ppb	52.141 ppb	136.134 ppb	11,957.756 ppb	47.819 ppb	64.797 ppb	52.285 ppb	549.348 ppb	73.331 %
Concentration per Run 1	49.108 ppb	52.184 ppb	131.913 ppb	11,770.145 ppb	48.466 ppb	64.852 ppb	52.534 ppb	550.858 ppb	69.649 %
Concentration per Run 2	51.188 ppb	52.927 ppb	139.532 ppb	12,110.770 ppb	47.364 ppb	65.319 ppb	52.662 ppb	555.576 ppb	72.343 %
Concentration per Run 3	49.126 ppb	51.311 ppb	136.959 ppb	11,992.354 ppb	47.626 ppb	64.221 ppb	51.658 ppb	541.611 ppb	78.002 %
Concentration RSD	2.4 %	1.6 %	2.8 %	1.4 %	1.2 %	0.9 %	1.0 %	1.3 %	5.8 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	47.072 ppb	40.490 ppb	139.931 ppb	54.327 ppb	69.489 %	0.515 ppb	42.010 ppb	71.658 %	46.097 ppb
Concentration per Run 1	46.848 ppb	41.694 ppb	137.963 ppb	53.633 ppb	66.973 %	0.489 ppb	41.128 ppb	66.649 %	46.151 ppb
Concentration per Run 2	47.700 ppb	40.768 ppb	141.639 ppb	54.728 ppb	69.055 %	0.550 ppb	43.182 ppb	72.319 %	47.014 ppb
Concentration per Run 3	46.666 ppb	39.009 ppb	140.191 ppb	54.619 ppb	72.440 %	0.507 ppb	41.719 ppb	76.005 %	45.125 ppb
Concentration RSD	1.2 %	3.4 %	1.3 %	1.1 %	4.0 %	6.1 %	2.5 %	6.6 %	2.1 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	117.989 ppb	63.985 %	62.477 %	55.251 ppb	82.290 ppb	66.535 %
Concentration per Run 1	116.106 ppb	61.398 %	59.037 %	53.146 ppb	79.596 ppb	64.052 %
Concentration per Run 2	119.835 ppb	63.095 %	62.187 %	56.211 ppb	83.718 ppb	65.821 %
Concentration per Run 3	118.026 ppb	67.463 %	66.208 %	56.395 ppb	83.556 ppb	69.732 %
Concentration RSD	1.6 %	4.9 %	5.8 %	3.3 %	2.8 %	4.4 %

Alpha ICPMSQ2 Data with SRD

3/5/2024 9:03:09 PM

Analysis index:	128	User name	ALPHALAB\a2-icpmsq2	Comment	<Comment>
Analysis label:	I2410566-02d10 6020TL	Rack	2		
Analysis started at:	3/5/2024 4:44:36 PM	Vial	30		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	88.916 %	85.992 %	0.056 ppb	36,335.166 ppb	2,813.550 ppb	366.504 ppb	936.507 ppb	15,615.562 ppb	73.542 %
Concentration per Run 1	89.045 %	82.375 %	0.052 ppb	37,250.528 ppb	2,875.723 ppb	373.033 ppb	937.387 ppb	15,768.307 ppb	72.956 %
Concentration per Run 2	88.271 %	84.601 %	0.058 ppb	36,759.647 ppb	2,811.676 ppb	369.114 ppb	937.699 ppb	16,005.243 ppb	73.889 %
Concentration per Run 3	89.433 %	91.002 %	0.057 ppb	34,995.323 ppb	2,753.250 ppb	357.364 ppb	934.434 ppb	15,073.136 ppb	73.780 %
Concentration RSD	0.7 %	5.2 %	6.3 %	3.3 %	2.2 %	2.2 %	0.2 %	3.1 %	0.7 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	1.658 ppb	0.441 ppb	509.261 ppb	5,491.151 ppb	3.432 ppb	1.056 ppb	0.750 ppb	11.882 ppb	83.251 %
Concentration per Run 1	1.784 ppb	0.447 ppb	508.617 ppb	5,491.134 ppb	3.363 ppb	1.152 ppb	0.749 ppb	11.601 ppb	85.895 %
Concentration per Run 2	1.392 ppb	0.468 ppb	530.085 ppb	5,674.673 ppb	3.574 ppb	0.985 ppb	0.787 ppb	12.607 ppb	79.820 %
Concentration per Run 3	1.799 ppb	0.409 ppb	489.082 ppb	5,307.646 ppb	3.359 ppb	1.032 ppb	0.713 ppb	11.437 ppb	84.039 %
Concentration RSD	13.9 %	6.8 %	4.0 %	3.3 %	3.6 %	8.2 %	4.9 %	5.3 %	3.7 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	1.076 ppb	0.448 ppb	106.064 ppb	0.145 ppb	84.590 %	0.001 ppb	0.050 ppb	85.653 %	-0.068 ppb
Concentration per Run 1	1.127 ppb	0.566 ppb	106.062 ppb	0.146 ppb	83.215 %	0.002 ppb	0.038 ppb	84.061 %	-0.065 ppb
Concentration per Run 2	0.919 ppb	0.526 ppb	103.347 ppb	0.102 ppb	84.278 %	0.001 ppb	0.041 ppb	84.667 %	-0.063 ppb
Concentration per Run 3	1.184 ppb	0.252 ppb	108.782 ppb	0.187 ppb	86.276 %	0.002 ppb	0.070 ppb	88.231 %	-0.076 ppb
Concentration RSD	13.0 %	38.1 %	2.6 %	29.3 %	1.8 %	45.1 %	35.6 %	2.6 %	10.2 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	69.835 ppb	75.140 %	72.884 %	0.068 ppb	3.340 ppb	86.849 %
Concentration per Run 1	71.743 ppb	73.655 %	70.909 %	0.047 ppb	3.308 ppb	86.826 %
Concentration per Run 2	69.040 ppb	74.983 %	73.070 %	0.079 ppb	3.391 ppb	85.589 %
Concentration per Run 3	68.723 ppb	76.783 %	74.673 %	0.077 ppb	3.320 ppb	88.131 %
Concentration RSD	2.4 %	2.1 %	2.6 %	26.4 %	1.4 %	1.5 %

Alpha ICPMSQ2 Data with SRD

3/5/2024 9:03:09 PM

Analysis index:	129	User name	ALPHALAB\a2-icpmsq2	Comment	<Comment>
Analysis label:	LDR Check (ICSA 10x)	Rack	4		
Analysis started at:	3/5/2024 4:51:35 PM	Vial	60		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	85.256 %	90.260 %	0.026 ppb	225,774.586 ppb	81,657.858 ppb	71,208.554 ppb	90,743.662 ppb	258,931.835 ppb	54.328 %
Concentration per Run 1	84.867 %	80.983 %	0.032 ppb	230,905.554 ppb	82,890.490 ppb	71,360.336 ppb	83,646.729 ppb	243,450.709 ppb	54.190 %
Concentration per Run 2	85.155 %	86.271 %	0.020 ppb	229,144.585 ppb	82,565.407 ppb	71,282.172 ppb	89,667.502 ppb	258,969.512 ppb	54.402 %
Concentration per Run 3	85.748 %	103.525 %	0.026 ppb	217,273.620 ppb	79,517.678 ppb	70,983.155 ppb	98,916.754 ppb	274,375.286 ppb	54.394 %
Concentration RSD	0.5 %	13.1 %	23.1 %	3.3 %	2.3 %	0.3 %	8.5 %	6.0 %	0.2 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.078 ppb	1.472 ppb	4.678 ppb	207,713.371 ppb	2.030 ppb	2.560 ppb	1.039 ppb	2.972 ppb	88.076 %
Concentration per Run 1	0.247 ppb	1.494 ppb	4.540 ppb	207,005.479 ppb	2.041 ppb	2.408 ppb	1.019 ppb	2.839 ppb	87.272 %
Concentration per Run 2	-0.011 ppb	1.515 ppb	4.820 ppb	209,202.392 ppb	2.083 ppb	2.907 ppb	0.974 ppb	3.101 ppb	84.983 %
Concentration per Run 3	-0.001 ppb	1.408 ppb	4.675 ppb	206,932.241 ppb	1.965 ppb	2.366 ppb	1.123 ppb	2.977 ppb	91.973 %
Concentration RSD	186.9 %	3.9 %	3.0 %	0.6 %	2.9 %	11.8 %	7.4 %	4.4 %	4.0 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.421 ppb	2.949 ppb	2.495 ppb	2,056.254 ppb	76.906 %	0.024 ppb	0.401 ppb	82.023 %	0.107 ppb
Concentration per Run 1	0.461 ppb	3.049 ppb	2.366 ppb	2,028.290 ppb	73.675 %	0.027 ppb	0.378 ppb	75.862 %	0.099 ppb
Concentration per Run 2	0.444 ppb	2.807 ppb	2.485 ppb	2,046.960 ppb	77.663 %	0.023 ppb	0.361 ppb	81.536 %	0.106 ppb
Concentration per Run 3	0.358 ppb	2.989 ppb	2.636 ppb	2,093.514 ppb	79.379 %	0.021 ppb	0.464 ppb	88.672 %	0.115 ppb
Concentration RSD	13.1 %	4.3 %	5.4 %	1.6 %	3.8 %	13.2 %	13.7 %	7.8 %	7.6 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	1.398 ppb	49.119 %	43.729 %	0.054 ppb	1.775 ppb	74.970 %
Concentration per Run 1	1.656 ppb	46.599 %	41.197 %	0.032 ppb	1.718 ppb	73.143 %
Concentration per Run 2	1.007 ppb	48.917 %	43.440 %	0.067 ppb	1.801 ppb	74.551 %
Concentration per Run 3	1.531 ppb	51.841 %	46.549 %	0.063 ppb	1.805 ppb	77.215 %
Concentration RSD	24.6 %	5.3 %	6.1 %	35.0 %	2.7 %	2.8 %

Alpha ICPMSQ2 Data with SRD

3/5/2024 9:03:09 PM

Analysis index:	130	User name	ALPHALAB\a2-icpmsq2	Comment	<Comment>
Analysis label:	WG1890905-4d20 6020TL	Rack	2		
Analysis started at:	3/5/2024 4:57:19 PM	Vial	27		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	88.308 %	89.425 %	0.050 ppb	415,486.323 ppb	1,120.260 ppb	583.312 ppb	1,522.728 ppb	5,597.283 ppb	73.112 %
Concentration per Run 1	87.948 %	88.219 %	0.039 ppb	420,791.248 ppb	1,167.390 ppb	592.605 ppb	1,583.787 ppb	5,698.162 ppb	73.468 %
Concentration per Run 2	88.907 %	89.332 %	0.048 ppb	411,335.756 ppb	1,105.173 ppb	579.698 ppb	1,501.830 ppb	5,571.099 ppb	72.968 %
Concentration per Run 3	88.068 %	90.723 %	0.063 ppb	414,331.964 ppb	1,088.218 ppb	577.634 ppb	1,482.568 ppb	5,522.588 ppb	72.900 %
Concentration RSD	0.6 %	1.4 %	23.7 %	1.2 %	3.7 %	1.4 %	3.5 %	1.6 %	0.4 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	3.381 ppb	3.675 ppb	49.755 ppb	4,187.200 ppb	0.997 ppb	10.903 ppb	5.090 ppb	290.603 ppb	82.374 %
Concentration per Run 1	3.511 ppb	3.599 ppb	50.321 ppb	4,081.950 ppb	0.987 ppb	11.142 ppb	4.868 ppb	270.679 ppb	83.472 %
Concentration per Run 2	3.265 ppb	3.633 ppb	47.837 ppb	4,183.203 ppb	1.066 ppb	10.801 ppb	4.939 ppb	295.537 ppb	83.113 %
Concentration per Run 3	3.366 ppb	3.793 ppb	51.106 ppb	4,296.448 ppb	0.937 ppb	10.765 ppb	5.463 ppb	305.592 ppb	80.538 %
Concentration RSD	3.7 %	2.8 %	3.4 %	2.6 %	6.5 %	1.9 %	6.4 %	6.2 %	1.9 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.283 ppb	0.086 ppb	45.641 ppb	2.699 ppb	78.393 %	0.005 ppb	0.350 ppb	80.100 %	0.121 ppb
Concentration per Run 1	0.278 ppb	0.111 ppb	46.925 ppb	2.797 ppb	77.989 %	0.006 ppb	0.367 ppb	79.443 %	0.131 ppb
Concentration per Run 2	0.247 ppb	0.088 ppb	44.776 ppb	2.575 ppb	78.994 %	0.003 ppb	0.255 ppb	80.717 %	0.104 ppb
Concentration per Run 3	0.325 ppb	0.060 ppb	45.221 ppb	2.725 ppb	78.196 %	0.007 ppb	0.428 ppb	80.140 %	0.130 ppb
Concentration RSD	13.8 %	29.0 %	2.5 %	4.2 %	0.7 %	35.6 %	25.2 %	0.8 %	12.7 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	32.935 ppb	75.955 %	73.099 %	0.033 ppb	13.832 ppb	75.353 %
Concentration per Run 1	33.940 ppb	73.908 %	72.239 %	0.018 ppb	13.695 ppb	74.196 %
Concentration per Run 2	32.651 ppb	77.593 %	73.666 %	0.042 ppb	13.814 ppb	76.047 %
Concentration per Run 3	32.215 ppb	76.365 %	73.392 %	0.038 ppb	13.988 ppb	75.816 %
Concentration RSD	2.7 %	2.5 %	1.0 %	39.3 %	1.1 %	1.3 %

Alpha ICPMSQ2 Data with SRD

3/5/2024 9:03:09 PM

Analysis index:	131	User name	ALPHALAB\a2-icpmsq2	Comment	<Comment>
Analysis label:	I2410566-01d20 6020TL	Rack	2		
Analysis started at:	3/5/2024 5:01:46 PM	Vial	25		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	87.407 %	94.991 %	0.042 ppb	393,226.119 ppb	1,038.845 ppb	539.965 ppb	1,469.899 ppb	5,432.646 ppb	71.287 %
Concentration per Run 1	87.279 %	95.454 %	0.039 ppb	381,537.841 ppb	1,013.968 ppb	518.137 ppb	1,414.678 ppb	5,319.141 ppb	70.955 %
Concentration per Run 2	86.904 %	99.072 %	0.046 ppb	392,605.138 ppb	1,032.261 ppb	542.233 ppb	1,527.302 ppb	5,515.420 ppb	72.039 %
Concentration per Run 3	88.038 %	90.445 %	0.042 ppb	405,535.378 ppb	1,070.307 ppb	559.523 ppb	1,467.717 ppb	5,463.377 ppb	70.867 %
Concentration RSD	0.7 %	4.6 %	8.5 %	3.1 %	2.8 %	3.8 %	3.8 %	1.9 %	0.9 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	3.422 ppb	3.460 ppb	49.568 ppb	4,136.682 ppb	1.099 ppb	10.867 ppb	4.360 ppb	298.429 ppb	78.551 %
Concentration per Run 1	3.535 ppb	3.292 ppb	48.517 ppb	4,159.474 ppb	1.195 ppb	10.966 ppb	4.395 ppb	302.294 ppb	75.238 %
Concentration per Run 2	3.267 ppb	3.491 ppb	51.137 ppb	4,128.612 ppb	1.093 ppb	10.387 ppb	3.922 ppb	300.364 ppb	81.405 %
Concentration per Run 3	3.465 ppb	3.597 ppb	49.051 ppb	4,121.960 ppb	1.009 ppb	11.247 ppb	4.765 ppb	292.630 ppb	79.010 %
Concentration RSD	4.1 %	4.5 %	2.8 %	0.5 %	8.4 %	4.0 %	9.7 %	1.7 %	4.0 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.319 ppb	0.101 ppb	47.168 ppb	1.758 ppb	75.904 %	0.012 ppb	0.382 ppb	78.029 %	0.104 ppb
Concentration per Run 1	0.418 ppb	-0.001 ppb	46.720 ppb	1.734 ppb	74.157 %	0.006 ppb	0.405 ppb	73.536 %	0.092 ppb
Concentration per Run 2	0.271 ppb	0.092 ppb	49.048 ppb	1.812 ppb	76.697 %	0.014 ppb	0.376 ppb	83.409 %	0.110 ppb
Concentration per Run 3	0.266 ppb	0.213 ppb	45.738 ppb	1.728 ppb	76.858 %	0.015 ppb	0.365 ppb	77.142 %	0.111 ppb
Concentration RSD	27.1 %	106.1 %	3.6 %	2.7 %	2.0 %	42.8 %	5.5 %	6.4 %	10.3 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	33.765 ppb	75.078 %	71.675 %	0.026 ppb	13.657 ppb	71.566 %
Concentration per Run 1	34.441 ppb	72.051 %	68.923 %	0.011 ppb	13.542 ppb	70.666 %
Concentration per Run 2	33.531 ppb	77.501 %	73.718 %	0.038 ppb	13.782 ppb	72.081 %
Concentration per Run 3	33.325 ppb	75.681 %	72.383 %	0.031 ppb	13.647 ppb	71.951 %
Concentration RSD	1.8 %	3.7 %	3.5 %	53.4 %	0.9 %	1.1 %

Alpha ICPMSQ2 Data with SRD

3/5/2024 9:03:09 PM

Analysis index:	132	User name	ALPHALAB\a2-icpmsq2	Comment	<Comment>
Analysis label:	WG1890905-6d100 6020TL	Rack	2		
Analysis started at:	3/5/2024 5:06:14 PM	Vial	29		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	89.836 %	89.796 %	0.015 ppb	81,269.341 ppb	213.381 ppb	117.184 ppb	315.870 ppb	1,170.559 ppb	79.358 %
Concentration per Run 1	89.828 %	85.992 %	0.010 ppb	81,348.262 ppb	227.394 ppb	118.987 ppb	317.283 ppb	1,142.789 ppb	80.456 %
Concentration per Run 2	90.497 %	90.167 %	0.015 ppb	82,798.422 ppb	203.304 ppb	120.339 ppb	306.328 ppb	1,199.699 ppb	79.811 %
Concentration per Run 3	89.183 %	93.228 %	0.020 ppb	79,661.339 ppb	209.444 ppb	112.225 ppb	323.998 ppb	1,169.190 ppb	77.807 %
Concentration RSD	0.7 %	4.0 %	35.2 %	1.9 %	5.9 %	3.7 %	2.8 %	2.4 %	1.7 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.686 ppb	0.689 ppb	10.081 ppb	807.808 ppb	0.200 ppb	2.231 ppb	1.125 ppb	63.725 ppb	86.449 %
Concentration per Run 1	0.839 ppb	0.751 ppb	9.757 ppb	824.526 ppb	0.212 ppb	2.420 ppb	1.237 ppb	65.104 ppb	83.500 %
Concentration per Run 2	0.590 ppb	0.684 ppb	10.307 ppb	789.442 ppb	0.220 ppb	2.257 ppb	0.945 ppb	64.232 ppb	89.308 %
Concentration per Run 3	0.629 ppb	0.632 ppb	10.180 ppb	809.456 ppb	0.167 ppb	2.015 ppb	1.194 ppb	61.840 ppb	86.539 %
Concentration RSD	19.5 %	8.7 %	2.9 %	2.2 %	14.5 %	9.1 %	14.0 %	2.7 %	3.4 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.115 ppb	0.058 ppb	8.756 ppb	0.348 ppb	81.355 %	0.001 ppb	0.092 ppb	81.465 %	-0.037 ppb
Concentration per Run 1	0.118 ppb	0.072 ppb	8.636 ppb	0.271 ppb	78.755 %	0.001 ppb	0.124 ppb	77.964 %	-0.032 ppb
Concentration per Run 2	0.117 ppb	0.133 ppb	9.040 ppb	0.359 ppb	81.812 %	0.001 ppb	0.067 ppb	84.381 %	-0.030 ppb
Concentration per Run 3	0.109 ppb	-0.031 ppb	8.592 ppb	0.413 ppb	83.497 %	0.002 ppb	0.085 ppb	82.050 %	-0.049 ppb
Concentration RSD	4.2 %	141.9 %	2.8 %	20.7 %	3.0 %	54.3 %	32.0 %	4.0 %	28.5 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	6.360 ppb	81.360 %	79.273 %	0.020 ppb	2.672 ppb	78.235 %
Concentration per Run 1	6.660 ppb	78.427 %	76.097 %	0.011 ppb	2.640 ppb	76.458 %
Concentration per Run 2	6.115 ppb	83.404 %	82.723 %	0.025 ppb	2.693 ppb	78.568 %
Concentration per Run 3	6.307 ppb	82.249 %	79.000 %	0.025 ppb	2.683 ppb	79.680 %
Concentration RSD	4.3 %	3.2 %	4.2 %	38.2 %	1.1 %	2.1 %

Alpha ICPMSQ2 Data with SRD

3/5/2024 9:03:09 PM

Analysis index:	133	User name	ALPHALAB\a2-icpmsq2	Comment	<Comment>
Analysis label:	WG1890905-3d200 6020TL	Rack	2		
Analysis started at:	3/5/2024 5:17:21 PM	Vial	32		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	93.052 %	97.774 %	0.277 ppb	37,862.008 ppb	149.539 ppb	62.846 ppb	197.690 ppb	610.788 ppb	86.397 %
Concentration per Run 1	92.492 %	97.403 %	0.264 ppb	37,401.455 ppb	152.404 ppb	63.973 ppb	192.710 ppb	603.432 ppb	85.599 %
Concentration per Run 2	93.572 %	104.082 %	0.285 ppb	36,012.256 ppb	135.422 ppb	60.685 ppb	194.076 ppb	651.867 ppb	87.589 %
Concentration per Run 3	93.091 %	91.837 %	0.282 ppb	40,172.313 ppb	160.790 ppb	63.880 ppb	206.286 ppb	577.066 ppb	86.005 %
Concentration RSD	0.6 %	6.3 %	4.1 %	5.6 %	8.6 %	3.0 %	3.8 %	6.2 %	1.2 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	2.558 ppb	1.309 ppb	7.149 ppb	408.334 ppb	2.436 ppb	3.804 ppb	1.747 ppb	35.601 ppb	86.779 %
Concentration per Run 1	2.431 ppb	1.207 ppb	7.374 ppb	396.054 ppb	2.553 ppb	3.676 ppb	1.923 ppb	35.779 ppb	84.877 %
Concentration per Run 2	2.266 ppb	1.439 ppb	6.688 ppb	404.008 ppb	2.383 ppb	3.814 ppb	1.725 ppb	34.744 ppb	87.198 %
Concentration per Run 3	2.977 ppb	1.282 ppb	7.386 ppb	424.938 ppb	2.372 ppb	3.922 ppb	1.593 ppb	36.279 ppb	88.261 %
Concentration RSD	14.5 %	9.0 %	5.6 %	3.7 %	4.2 %	3.3 %	9.5 %	2.2 %	2.0 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.604 ppb	0.124 ppb	9.086 ppb	4.927 ppb	87.099 %	0.237 ppb	0.304 ppb	87.139 %	2.218 ppb
Concentration per Run 1	0.560 ppb	0.167 ppb	8.965 ppb	5.469 ppb	86.647 %	0.246 ppb	0.297 ppb	85.109 %	2.213 ppb
Concentration per Run 2	0.603 ppb	0.173 ppb	9.116 ppb	4.564 ppb	87.105 %	0.248 ppb	0.314 ppb	86.598 %	2.245 ppb
Concentration per Run 3	0.648 ppb	0.033 ppb	9.177 ppb	4.747 ppb	87.545 %	0.218 ppb	0.303 ppb	89.709 %	2.196 ppb
Concentration RSD	7.3 %	63.9 %	1.2 %	9.7 %	0.5 %	7.3 %	2.8 %	2.7 %	1.1 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	11.912 ppb	88.764 %	87.554 %	0.602 ppb	4.017 ppb	88.276 %
Concentration per Run 1	12.008 ppb	87.403 %	85.756 %	0.578 ppb	3.996 ppb	87.541 %
Concentration per Run 2	11.826 ppb	89.000 %	88.047 %	0.583 ppb	3.960 ppb	89.080 %
Concentration per Run 3	11.902 ppb	89.891 %	88.859 %	0.646 ppb	4.094 ppb	88.206 %
Concentration RSD	0.8 %	1.4 %	1.8 %	6.2 %	1.7 %	0.9 %

Alpha ICPMSQ2 Data with SRD

3/5/2024 9:03:09 PM

Analysis index:	134	User name	ALPHALAB\a2-icpmsq2	Comment	<Comment>
Analysis label:	WG1890905-4d200 6020TL	Rack	2		
Analysis started at:	3/5/2024 5:21:49 PM	Vial	33		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	91.060 %	94.527 %	0.009 ppb	39,479.960 ppb	110.597 ppb	58.662 ppb	166.542 ppb	537.980 ppb	83.560 %
Concentration per Run 1	90.711 %	89.610 %	0.009 ppb	40,224.286 ppb	105.483 ppb	64.343 ppb	158.166 ppb	615.146 ppb	84.376 %
Concentration per Run 2	91.540 %	97.403 %	0.007 ppb	38,451.173 ppb	107.899 ppb	55.607 ppb	169.750 ppb	528.101 ppb	83.589 %
Concentration per Run 3	90.930 %	96.568 %	0.011 ppb	39,764.421 ppb	118.409 ppb	56.036 ppb	171.710 ppb	470.693 ppb	82.716 %
Concentration RSD	0.5 %	4.5 %	23.5 %	2.3 %	6.2 %	8.4 %	4.4 %	13.5 %	1.0 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.346 ppb	0.363 ppb	5.361 ppb	423.260 ppb	0.113 ppb	1.134 ppb	0.519 ppb	33.939 ppb	86.524 %
Concentration per Run 1	0.275 ppb	0.360 ppb	5.144 ppb	428.652 ppb	0.121 ppb	1.187 ppb	0.546 ppb	33.790 ppb	85.028 %
Concentration per Run 2	0.331 ppb	0.380 ppb	5.120 ppb	423.391 ppb	0.145 ppb	1.368 ppb	0.429 ppb	35.026 ppb	85.117 %
Concentration per Run 3	0.431 ppb	0.349 ppb	5.819 ppb	417.737 ppb	0.075 ppb	0.848 ppb	0.582 ppb	33.001 ppb	89.427 %
Concentration RSD	22.8 %	4.3 %	7.4 %	1.3 %	31.2 %	23.3 %	15.4 %	3.0 %	2.9 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.052 ppb	0.005 ppb	4.377 ppb	0.242 ppb	85.139 %	0.002 ppb	0.047 ppb	84.619 %	-0.070 ppb
Concentration per Run 1	0.050 ppb	-0.003 ppb	4.458 ppb	0.178 ppb	84.690 %	0.001 ppb	0.031 ppb	83.488 %	-0.080 ppb
Concentration per Run 2	0.042 ppb	-0.030 ppb	4.417 ppb	0.310 ppb	85.006 %	0.001 ppb	0.070 ppb	82.497 %	-0.071 ppb
Concentration per Run 3	0.065 ppb	0.046 ppb	4.256 ppb	0.239 ppb	85.721 %	0.004 ppb	0.040 ppb	87.873 %	-0.058 ppb
Concentration RSD	21.3 %	850.9 %	2.4 %	27.4 %	0.6 %	106.0 %	43.9 %	3.4 %	15.5 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	3.060 ppb	85.836 %	84.936 %	0.021 ppb	1.340 ppb	84.047 %
Concentration per Run 1	3.102 ppb	84.029 %	82.870 %	0.010 ppb	1.291 ppb	84.191 %
Concentration per Run 2	3.126 ppb	84.543 %	85.220 %	0.026 ppb	1.347 ppb	83.587 %
Concentration per Run 3	2.952 ppb	88.935 %	86.717 %	0.026 ppb	1.382 ppb	84.363 %
Concentration RSD	3.1 %	3.1 %	2.3 %	43.6 %	3.4 %	0.5 %

Alpha ICPMSQ2 Data with SRD

3/5/2024 9:03:09 PM

Analysis index:	135	User name	ALPHALAB\a2-icpmsq2	Comment	<Comment>
Analysis label:	I2410566-01d200 6020TL	Rack	2		
Analysis started at:	3/5/2024 5:26:17 PM	Vial	31		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	89.636 %	87.755 %	0.008 ppb	42,131.715 ppb	117.133 ppb	61.288 ppb	160.421 ppb	616.400 ppb	82.932 %
Concentration per Run 1	89.350 %	84.879 %	0.005 ppb	41,652.381 ppb	122.165 ppb	60.835 ppb	164.727 ppb	629.971 ppb	83.902 %
Concentration per Run 2	90.295 %	98.794 %	0.011 ppb	39,294.771 ppb	112.273 ppb	59.492 ppb	136.072 ppb	577.217 ppb	83.810 %
Concentration per Run 3	89.262 %	79.592 %	0.008 ppb	45,447.992 ppb	116.961 ppb	63.536 ppb	180.463 ppb	642.013 ppb	81.085 %
Concentration RSD	0.6 %	11.3 %	41.9 %	7.4 %	4.2 %	3.4 %	14.0 %	5.6 %	1.9 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.391 ppb	0.317 ppb	4.663 ppb	410.350 ppb	0.115 ppb	1.138 ppb	0.430 ppb	34.128 ppb	86.679 %
Concentration per Run 1	0.284 ppb	0.259 ppb	4.232 ppb	410.075 ppb	0.109 ppb	1.081 ppb	0.320 ppb	34.036 ppb	84.338 %
Concentration per Run 2	0.386 ppb	0.365 ppb	5.209 ppb	405.898 ppb	0.106 ppb	1.281 ppb	0.572 ppb	34.858 ppb	87.557 %
Concentration per Run 3	0.504 ppb	0.327 ppb	4.550 ppb	415.076 ppb	0.129 ppb	1.051 ppb	0.398 ppb	33.491 ppb	88.142 %
Concentration RSD	28.2 %	17.0 %	10.7 %	1.1 %	10.9 %	11.0 %	30.0 %	2.0 %	2.4 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.022 ppb	0.028 ppb	4.508 ppb	0.195 ppb	84.298 %	0.000 ppb	0.047 ppb	86.898 %	-0.072 ppb
Concentration per Run 1	0.013 ppb	-0.098 ppb	4.389 ppb	0.103 ppb	81.618 %	-0.002 ppb	0.045 ppb	84.345 %	-0.082 ppb
Concentration per Run 2	0.007 ppb	-0.011 ppb	4.707 ppb	0.184 ppb	86.803 %	0.000 ppb	0.053 ppb	89.591 %	-0.079 ppb
Concentration per Run 3	0.045 ppb	0.192 ppb	4.427 ppb	0.298 ppb	84.472 %	0.002 ppb	0.044 ppb	86.758 %	-0.053 ppb
Concentration RSD	93.4 %	537.9 %	3.8 %	50.2 %	3.1 %	1,783.7 %	9.9 %	3.0 %	22.3 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	2.979 ppb	85.786 %	84.795 %	0.014 ppb	1.305 ppb	83.893 %
Concentration per Run 1	3.035 ppb	83.521 %	81.583 %	0.004 ppb	1.324 ppb	81.925 %
Concentration per Run 2	3.081 ppb	88.089 %	88.349 %	0.019 ppb	1.270 ppb	85.717 %
Concentration per Run 3	2.820 ppb	85.747 %	84.453 %	0.019 ppb	1.322 ppb	84.038 %
Concentration RSD	4.7 %	2.7 %	4.0 %	61.0 %	2.4 %	2.3 %

Alpha ICPMSQ2 Data with SRD

3/5/2024 9:03:09 PM

Analysis index:	136	User name	ALPHALAB\a2-icpmsq2	Comment	<Comment>
Analysis label:	CCV	Rack	0		
Analysis started at:	3/5/2024 5:30:45 PM	Vial	9		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	89.324 %	98.701 %	60.401 ppb	5,526.923 ppb	5,606.051 ppb	58.714 ppb	5,570.729 ppb	5,709.605 ppb	84.593 %
Concentration per Run 1	88.470 %	94.620 %	60.860 ppb	5,643.181 ppb	5,654.965 ppb	57.361 ppb	5,331.250 ppb	5,791.232 ppb	84.101 %
Concentration per Run 2	89.433 %	102.134 %	60.685 ppb	5,483.008 ppb	5,539.549 ppb	60.607 ppb	5,775.611 ppb	5,653.219 ppb	83.983 %
Concentration per Run 3	90.071 %	99.351 %	59.658 ppb	5,454.580 ppb	5,623.638 ppb	58.174 ppb	5,605.325 ppb	5,684.365 ppb	85.697 %
Recovery Percentage 1			100.668 %	92.115 %	93.434 %	97.857 %	92.845 %	95.160 %	
Concentration RSD	0.9 %	3.8 %	1.1 %	1.8 %	1.1 %	2.9 %	4.0 %	1.3 %	1.1 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	57.319 ppb	58.488 ppb	59.852 ppb	5,925.976 ppb	60.486 ppb	61.174 ppb	62.083 ppb	62.371 ppb	87.178 %
Concentration per Run 1	58.651 ppb	60.006 ppb	59.787 ppb	6,211.067 ppb	63.955 ppb	65.035 ppb	66.309 ppb	65.335 ppb	79.131 %
Concentration per Run 2	57.543 ppb	58.321 ppb	60.649 ppb	5,885.298 ppb	59.507 ppb	59.534 ppb	60.762 ppb	62.952 ppb	90.652 %
Concentration per Run 3	55.764 ppb	57.137 ppb	59.120 ppb	5,681.563 ppb	57.995 ppb	58.952 ppb	59.177 ppb	58.826 ppb	91.750 %
Recovery Percentage 1	95.532 %	97.480 %	99.753 %	98.766 %	100.810 %	101.956 %	103.471 %	103.952 %	
Concentration RSD	2.5 %	2.5 %	1.3 %	4.5 %	5.1 %	5.5 %	6.0 %	5.3 %	8.0 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	61.904 ppb	64.720 ppb	60.269 ppb	58.876 ppb	84.602 %	59.502 ppb	59.482 ppb	86.023 %	55.740 ppb
Concentration per Run 1	65.003 ppb	63.757 ppb	60.815 ppb	60.437 ppb	81.474 %	61.215 ppb	60.127 ppb	81.063 %	56.735 ppb
Concentration per Run 2	61.558 ppb	68.654 ppb	61.682 ppb	58.449 ppb	87.000 %	57.679 ppb	58.876 ppb	90.546 %	55.000 ppb
Concentration per Run 3	59.150 ppb	61.749 ppb	58.311 ppb	57.743 ppb	85.332 %	59.614 ppb	59.445 ppb	86.459 %	55.484 ppb
Recovery Percentage 1	103.173 %	107.866 %	100.449 %	98.127 %		99.171 %	99.137 %		92.899 %
Concentration RSD	4.8 %	5.5 %	2.9 %	2.4 %	3.4 %	3.0 %	1.1 %	5.5 %	1.6 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	58.535 ppb	80.672 %	79.167 %	64.923 ppb	66.248 ppb	83.893 %
Concentration per Run 1	60.031 ppb	78.367 %	76.297 %	64.525 ppb	65.668 ppb	82.800 %
Concentration per Run 2	57.873 ppb	81.599 %	81.345 %	65.260 ppb	66.890 ppb	83.505 %
Concentration per Run 3	57.702 ppb	82.049 %	79.858 %	64.986 ppb	66.186 ppb	85.374 %
Recovery Percentage 1	97.559 %			108.206 %	110.414 %	
Concentration RSD	2.2 %	2.5 %	3.3 %	0.6 %	0.9 %	1.6 %

Alpha ICPMSQ2 Data with SRD

3/5/2024 9:03:09 PM

Analysis index:	137	User name	ALPHALAB\a2-icpmsq2	Comment	<Comment>
Analysis label:	CCB	Rack	0		
Analysis started at:	3/5/2024 5:35:16 PM	Vial	10		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	81.878 %	81.911 %	0.006 ppb	5.122 ppb	-0.464 ppb	-0.838 ppb	8.480 ppb	2.015 ppb	77.355 %
Concentration per Run 1	81.838 %	74.026 %	0.008 ppb	8.523 ppb	-0.521 ppb	-0.225 ppb	1.212 ppb	6.386 ppb	78.963 %
Concentration per Run 2	82.607 %	87.384 %	0.007 ppb	1.492 ppb	-0.980 ppb	-1.399 ppb	11.294 ppb	5.056 ppb	76.652 %
Concentration per Run 3	81.190 %	84.323 %	0.003 ppb	5.352 ppb	0.110 ppb	-0.891 ppb	12.935 ppb	-5.396 ppb	76.450 %
Recovery Percentage 1			1.197 %	5.122 %	-0.663 %	-8.384 %	8.480 %	2.015 %	
Concentration RSD	0.9 %	8.5 %	48.5 %	68.7 %	117.9 %	70.2 %	74.9 %	320.2 %	1.8 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.017 ppb	-0.035 ppb	0.040 ppb	6.526 ppb	0.002 ppb	-0.014 ppb	0.018 ppb	0.136 ppb	77.040 %
Concentration per Run 1	-0.003 ppb	-0.032 ppb	-0.045 ppb	5.683 ppb	0.004 ppb	-0.074 ppb	-0.002 ppb	0.095 ppb	73.654 %
Concentration per Run 2	-0.008 ppb	-0.056 ppb	0.072 ppb	6.118 ppb	0.003 ppb	-0.016 ppb	0.018 ppb	0.133 ppb	77.140 %
Concentration per Run 3	0.063 ppb	-0.016 ppb	0.092 ppb	7.775 ppb	-0.002 ppb	0.048 ppb	0.037 ppb	0.181 ppb	80.327 %
Recovery Percentage 1	0.348 %	-3.483 %	3.986 %	13.051 %	0.378 %	-0.696 %	1.773 %	2.729 %	
Concentration RSD	227.2 %	57.8 %	185.1 %	16.9 %	166.2 %	439.3 %	111.4 %	31.3 %	4.3 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.052 ppb	0.069 ppb	-0.001 ppb	0.113 ppb	76.534 %	0.003 ppb	0.000 ppb	76.558 %	0.051 ppb
Concentration per Run 1	0.077 ppb	0.036 ppb	0.000 ppb	0.051 ppb	73.387 %	0.007 ppb	-0.001 ppb	73.576 %	0.025 ppb
Concentration per Run 2	0.033 ppb	0.119 ppb	-0.004 ppb	0.166 ppb	80.394 %	0.003 ppb	-0.001 ppb	77.647 %	0.086 ppb
Concentration per Run 3	0.044 ppb	0.053 ppb	0.000 ppb	0.122 ppb	75.821 %	0.000 ppb	0.003 ppb	78.451 %	0.042 ppb
Recovery Percentage 1	10.309 %	1.388 %	-0.013 %	5.659 %		0.837 %	0.165 %		1.269 %
Concentration RSD	44.2 %	62.6 %	191.9 %	51.1 %	4.6 %	113.3 %	668.8 %	3.4 %	61.9 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.002 ppb	77.081 %	78.211 %	0.299 ppb	0.009 ppb	74.863 %
Concentration per Run 1	0.009 ppb	72.497 %	73.446 %	0.229 ppb	0.006 ppb	72.974 %
Concentration per Run 2	-0.026 ppb	80.202 %	80.805 %	0.375 ppb	0.011 ppb	76.753 %
Concentration per Run 3	0.023 ppb	78.543 %	80.384 %	0.294 ppb	0.012 ppb	74.861 %
Recovery Percentage 1	0.343 %			29.936 %	0.949 %	
Concentration RSD	1,461.3 %	5.3 %	5.3 %	24.5 %	35.2 %	2.5 %

Alpha ICPMSQ2 Data with SRD

3/5/2024 9:03:09 PM

Analysis index:	138	User name	ALPHALAB\a2-icpmsq2	Comment	<Comment>
Analysis label:	WG1890905-5d20 6020TL	Rack	2		
Analysis started at:	3/5/2024 5:41:38 PM	Vial	35		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	84.829 %	86.456 %	23.002 ppb	388,559.430 ppb	3,278.570 ppb	530.603 ppb	3,653.841 ppb	7,506.733 ppb	74.578 %
Concentration per Run 1	84.390 %	84.044 %	23.169 ppb	398,932.520 ppb	3,285.414 ppb	553.455 ppb	3,933.900 ppb	7,986.479 ppb	75.397 %
Concentration per Run 2	85.508 %	90.167 %	22.800 ppb	370,773.758 ppb	3,177.391 ppb	508.115 ppb	3,518.255 ppb	7,101.312 ppb	75.285 %
Concentration per Run 3	84.589 %	85.158 %	23.038 ppb	395,972.013 ppb	3,372.904 ppb	530.239 ppb	3,509.369 ppb	7,432.407 ppb	73.050 %
Concentration RSD	0.7 %	3.8 %	0.8 %	4.0 %	3.0 %	4.3 %	6.6 %	6.0 %	1.8 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	25.812 ppb	26.524 ppb	69.752 ppb	6,179.095 ppb	24.257 ppb	33.395 ppb	26.418 ppb	290.964 ppb	74.467 %
Concentration per Run 1	27.731 ppb	28.111 ppb	73.495 ppb	6,536.866 ppb	25.436 ppb	33.426 ppb	26.419 ppb	277.379 ppb	71.365 %
Concentration per Run 2	23.785 ppb	25.279 ppb	67.010 ppb	5,843.823 ppb	23.416 ppb	32.776 ppb	26.112 ppb	295.066 ppb	78.717 %
Concentration per Run 3	25.921 ppb	26.181 ppb	68.753 ppb	6,156.598 ppb	23.920 ppb	33.985 ppb	26.724 ppb	300.448 ppb	73.319 %
Concentration RSD	7.7 %	5.5 %	4.8 %	5.6 %	4.3 %	1.8 %	1.2 %	4.1 %	5.1 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	22.763 ppb	19.946 ppb	69.204 ppb	27.360 ppb	70.907 %	0.272 ppb	21.894 ppb	71.064 %	23.372 ppb
Concentration per Run 1	21.707 ppb	16.813 ppb	72.024 ppb	28.096 ppb	69.247 %	0.271 ppb	20.011 ppb	71.521 %	21.985 ppb
Concentration per Run 2	22.593 ppb	21.941 ppb	67.590 ppb	26.772 ppb	70.778 %	0.270 ppb	22.628 ppb	70.898 %	23.965 ppb
Concentration per Run 3	23.988 ppb	21.082 ppb	67.997 ppb	27.211 ppb	72.694 %	0.274 ppb	23.043 ppb	70.772 %	24.167 ppb
Concentration RSD	5.1 %	13.8 %	3.5 %	2.5 %	2.4 %	0.9 %	7.5 %	0.6 %	5.2 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	58.080 ppb	67.073 %	65.353 %	26.886 ppb	40.871 ppb	69.028 %
Concentration per Run 1	56.562 ppb	65.150 %	62.936 %	25.837 ppb	39.479 ppb	66.613 %
Concentration per Run 2	59.028 ppb	67.741 %	67.193 %	26.780 ppb	40.321 ppb	70.313 %
Concentration per Run 3	58.649 ppb	68.329 %	65.930 %	28.040 ppb	42.811 ppb	70.158 %
Concentration RSD	2.3 %	2.5 %	3.3 %	4.1 %	4.2 %	3.0 %

Alpha ICPMSQ2 Data with SRD

3/5/2024 9:03:09 PM

Analysis index: 139
Analysis label: WG1890905-6d1000 6020TL
Analysis started at: 3/5/2024 5:46:06 PM
User name ALPHALAB\a2-icpmsq2
Rack 2
Vial 34
Comment <Comment>

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	89.069 %	88.961 %	0.005 ppb	8,334.424 ppb	23.700 ppb	12.909 ppb	34.243 ppb	130.175 ppb	83.536 %
Concentration per Run 1	88.361 %	90.167 %	0.009 ppb	8,561.815 ppb	25.927 ppb	14.103 ppb	43.403 ppb	167.780 ppb	81.891 %
Concentration per Run 2	89.595 %	79.313 %	0.002 ppb	8,846.947 ppb	23.966 ppb	13.684 ppb	22.104 ppb	116.894 ppb	83.962 %
Concentration per Run 3	89.252 %	97.403 %	0.003 ppb	7,594.511 ppb	21.208 ppb	10.941 ppb	37.221 ppb	105.849 ppb	84.755 %
Concentration RSD	0.7 %	10.2 %	82.4 %	7.9 %	10.0 %	13.3 %	32.0 %	25.4 %	1.8 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.075 ppb	0.071 ppb	1.013 ppb	94.729 ppb	0.026 ppb	0.296 ppb	0.127 ppb	7.148 ppb	83.351 %
Concentration per Run 1	0.023 ppb	0.068 ppb	1.105 ppb	97.454 ppb	0.021 ppb	0.252 ppb	0.158 ppb	7.114 ppb	82.887 %
Concentration per Run 2	0.114 ppb	0.042 ppb	0.919 ppb	83.942 ppb	0.040 ppb	0.356 ppb	0.116 ppb	7.233 ppb	84.997 %
Concentration per Run 3	0.088 ppb	0.103 ppb	1.017 ppb	102.792 ppb	0.016 ppb	0.280 ppb	0.106 ppb	7.095 ppb	82.169 %
Concentration RSD	62.0 %	43.0 %	9.2 %	10.3 %	48.6 %	18.1 %	21.7 %	1.0 %	1.8 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.035 ppb	0.117 ppb	0.915 ppb	0.098 ppb	82.685 %	0.001 ppb	0.003 ppb	82.485 %	-0.079 ppb
Concentration per Run 1	-0.001 ppb	0.185 ppb	0.970 ppb	0.091 ppb	83.219 %	0.003 ppb	0.003 ppb	84.257 %	-0.076 ppb
Concentration per Run 2	0.050 ppb	0.126 ppb	0.878 ppb	0.110 ppb	85.748 %	0.002 ppb	0.006 ppb	84.022 %	-0.080 ppb
Concentration per Run 3	0.057 ppb	0.040 ppb	0.896 ppb	0.094 ppb	79.088 %	0.000 ppb	-0.001 ppb	79.175 %	-0.080 ppb
Concentration RSD	90.3 %	62.6 %	5.3 %	10.5 %	4.1 %	116.1 %	136.4 %	3.5 %	2.9 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.638 ppb	83.362 %	83.350 %	0.104 ppb	0.276 ppb	82.031 %
Concentration per Run 1	0.673 ppb	83.051 %	83.933 %	0.068 ppb	0.268 ppb	82.615 %
Concentration per Run 2	0.666 ppb	84.966 %	85.370 %	0.120 ppb	0.271 ppb	81.790 %
Concentration per Run 3	0.573 ppb	82.069 %	80.748 %	0.126 ppb	0.289 ppb	81.687 %
Concentration RSD	8.7 %	1.8 %	2.8 %	30.4 %	4.0 %	0.6 %

Alpha ICPMSQ2 Data with SRD

3/5/2024 9:03:09 PM

Analysis index:	140	User name	ALPHALAB\a2-icpmsq2	Comment	<Comment>
Analysis label:	CCV	Rack	0		
Analysis started at:	3/5/2024 5:51:01 PM	Vial	9		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	88.788 %	88.404 %	60.938 ppb	5,887.203 ppb	5,947.540 ppb	62.973 ppb	5,761.728 ppb	5,831.630 ppb	84.001 %
Concentration per Run 1	88.590 %	83.766 %	61.076 ppb	6,157.542 ppb	6,218.860 ppb	64.658 ppb	5,951.681 ppb	5,952.271 ppb	84.158 %
Concentration per Run 2	88.893 %	90.445 %	60.619 ppb	5,717.176 ppb	5,736.130 ppb	61.144 ppb	5,656.795 ppb	5,946.740 ppb	84.125 %
Concentration per Run 3	88.882 %	91.002 %	61.117 ppb	5,786.892 ppb	5,887.631 ppb	63.117 ppb	5,676.708 ppb	5,595.880 ppb	83.719 %
Recovery Percentage 1			101.563 %	98.120 %	99.126 %	104.955 %	96.029 %	97.194 %	
Concentration RSD	0.2 %	4.6 %	0.5 %	4.0 %	4.2 %	2.8 %	2.9 %	3.5 %	0.3 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	59.714 ppb	59.220 ppb	59.039 ppb	5,994.700 ppb	60.108 ppb	62.332 ppb	61.425 ppb	63.056 ppb	85.659 %
Concentration per Run 1	61.282 ppb	60.127 ppb	59.887 ppb	6,125.450 ppb	60.401 ppb	63.382 ppb	61.946 ppb	62.726 ppb	86.139 %
Concentration per Run 2	59.522 ppb	58.920 ppb	58.976 ppb	5,815.910 ppb	60.563 ppb	61.522 ppb	60.822 ppb	63.231 ppb	85.195 %
Concentration per Run 3	58.338 ppb	58.613 ppb	58.254 ppb	6,042.741 ppb	59.359 ppb	62.093 ppb	61.507 ppb	63.212 ppb	85.643 %
Recovery Percentage 1	99.524 %	98.700 %	98.398 %	99.912 %	100.180 %	103.887 %	102.375 %	105.094 %	
Concentration RSD	2.5 %	1.4 %	1.4 %	2.7 %	1.1 %	1.5 %	0.9 %	0.5 %	0.6 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	60.851 ppb	63.571 ppb	58.862 ppb	58.325 ppb	84.857 %	59.334 ppb	59.945 ppb	84.218 %	55.519 ppb
Concentration per Run 1	60.222 ppb	59.913 ppb	58.979 ppb	59.390 ppb	83.936 %	59.641 ppb	61.186 ppb	82.155 %	55.727 ppb
Concentration per Run 2	61.189 ppb	66.471 ppb	58.350 ppb	57.952 ppb	84.851 %	58.587 ppb	59.663 ppb	83.985 %	55.888 ppb
Concentration per Run 3	61.144 ppb	64.328 ppb	59.256 ppb	57.633 ppb	85.783 %	59.775 ppb	58.985 ppb	86.513 %	54.944 ppb
Recovery Percentage 1	101.419 %	105.951 %	98.103 %	97.208 %		98.891 %	99.908 %		92.532 %
Concentration RSD	0.9 %	5.3 %	0.8 %	1.6 %	1.1 %	1.1 %	1.9 %	2.6 %	0.9 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	57.957 ppb	79.462 %	77.759 %	64.787 ppb	57.341 ppb	83.096 %
Concentration per Run 1	58.124 ppb	78.868 %	76.260 %	62.761 ppb	57.201 ppb	84.022 %
Concentration per Run 2	58.112 ppb	78.869 %	77.813 %	64.475 ppb	57.164 ppb	82.122 %
Concentration per Run 3	57.634 ppb	80.648 %	79.205 %	67.126 ppb	57.658 ppb	83.144 %
Recovery Percentage 1	96.594 %			107.979 %	95.569 %	
Concentration RSD	0.5 %	1.3 %	1.9 %	3.4 %	0.5 %	1.1 %

Alpha ICPMSQ2 Data with SRD

3/5/2024 9:03:09 PM

Analysis index: 141 User name ALPHALAB\a2-icpmsq2 Comment <Comment>
Analysis label: CCB Rack 0
Analysis started at: 3/5/2024 5:55:32 PM Vial 10

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	80.003 %	86.271 %	0.007 ppb	5.159 ppb	-0.514 ppb	-0.881 ppb	11.230 ppb	5.931 ppb	68.974 %
Concentration per Run 1	82.174 %	74.582 %	0.007 ppb	9.225 ppb	-0.923 ppb	-0.777 ppb	17.446 ppb	3.836 ppb	72.791 %
Concentration per Run 2	79.154 %	92.672 %	0.008 ppb	3.144 ppb	-0.661 ppb	-0.943 ppb	3.356 ppb	11.724 ppb	66.041 %
Concentration per Run 3	78.681 %	91.558 %	0.007 ppb	3.109 ppb	0.044 ppb	-0.923 ppb	12.887 ppb	2.235 ppb	68.091 %
Recovery Percentage 1			1.454 %	5.159 %	-0.734 %	-8.809 %	11.230 %	5.931 %	
Concentration RSD	2.4 %	11.8 %	6.3 %	68.2 %	97.3 %	10.3 %	64.0 %	85.6 %	5.0 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.014 ppb	-0.031 ppb	0.085 ppb	7.051 ppb	0.004 ppb	-0.045 ppb	0.046 ppb	0.289 ppb	74.615 %
Concentration per Run 1	-0.021 ppb	-0.036 ppb	0.095 ppb	7.060 ppb	-0.001 ppb	-0.065 ppb	0.062 ppb	0.258 ppb	68.594 %
Concentration per Run 2	0.024 ppb	-0.038 ppb	0.065 ppb	9.784 ppb	-0.002 ppb	-0.076 ppb	0.047 ppb	0.275 ppb	79.954 %
Concentration per Run 3	-0.044 ppb	-0.021 ppb	0.096 ppb	4.309 ppb	0.013 ppb	0.004 ppb	0.030 ppb	0.334 ppb	75.298 %
Recovery Percentage 1	-0.271 %	-3.130 %	8.528 %	14.102 %	0.703 %	-2.273 %	4.637 %	5.779 %	
Concentration RSD	257.5 %	29.9 %	21.0 %	38.8 %	241.0 %	95.0 %	35.2 %	13.9 %	7.7 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.092 ppb	0.094 ppb	0.013 ppb	0.145 ppb	75.165 %	0.005 ppb	0.000 ppb	74.390 %	0.076 ppb
Concentration per Run 1	0.072 ppb	0.113 ppb	0.010 ppb	0.092 ppb	72.621 %	0.007 ppb	-0.001 ppb	71.987 %	0.045 ppb
Concentration per Run 2	0.087 ppb	0.070 ppb	0.018 ppb	0.160 ppb	75.597 %	0.002 ppb	0.003 ppb	75.101 %	0.085 ppb
Concentration per Run 3	0.117 ppb	0.099 ppb	0.010 ppb	0.184 ppb	77.278 %	0.004 ppb	-0.001 ppb	76.082 %	0.099 ppb
Recovery Percentage 1	18.353 %	1.879 %	0.127 %	7.266 %		1.165 %	0.185 %		1.911 %
Concentration RSD	24.9 %	23.2 %	38.4 %	32.8 %	3.1 %	56.3 %	616.3 %	2.9 %	36.8 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.008 ppb	74.761 %	74.967 %	0.285 ppb	0.010 ppb	73.535 %
Concentration per Run 1	-0.008 ppb	71.578 %	70.960 %	0.219 ppb	0.008 ppb	71.119 %
Concentration per Run 2	0.042 ppb	74.506 %	75.567 %	0.345 ppb	0.014 ppb	73.883 %
Concentration per Run 3	-0.010 ppb	78.200 %	78.374 %	0.290 ppb	0.009 ppb	75.601 %
Recovery Percentage 1	1.595 %			28.459 %	1.013 %	
Concentration RSD	368.6 %	4.4 %	5.0 %	22.2 %	31.5 %	3.1 %

Alpha ICPMSQ2 Data with SRD

3/5/2024 9:03:09 PM

Analysis index:	142	User name	ALPHALAB\a2-icpmsq2	Comment	<Comment>
Analysis label:	I2410812-05d10 6020TL	Rack	1		
Analysis started at:	3/5/2024 6:13:26 PM	Vial	21		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	93.621 %	96.382 %	0.797 ppb	1,241.914 ppb	7,451.626 ppb	8,374.295 ppb	547.824 ppb	22,446.599 ppb	72.196 %
Concentration per Run 1	92.695 %	103.247 %	0.750 ppb	1,168.868 ppb	7,134.464 ppb	7,928.477 ppb	547.612 ppb	21,967.433 ppb	72.249 %
Concentration per Run 2	93.048 %	89.610 %	0.814 ppb	1,305.860 ppb	7,828.130 ppb	8,883.065 ppb	597.336 ppb	23,336.538 ppb	71.924 %
Concentration per Run 3	95.119 %	96.289 %	0.827 ppb	1,251.014 ppb	7,392.285 ppb	8,311.343 ppb	498.525 ppb	22,035.824 ppb	72.414 %
Concentration RSD	1.4 %	7.1 %	5.2 %	5.6 %	4.7 %	5.7 %	9.0 %	3.4 %	0.3 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	17.251 ppb	13.359 ppb	712.175 ppb	32,881.363 ppb	14.478 ppb	27.635 ppb	19.870 ppb	99.887 ppb	84.814 %
Concentration per Run 1	17.011 ppb	13.237 ppb	709.958 ppb	33,149.706 ppb	14.703 ppb	27.184 ppb	20.499 ppb	101.292 ppb	80.126 %
Concentration per Run 2	17.164 ppb	14.025 ppb	729.461 ppb	33,101.264 ppb	15.123 ppb	28.363 ppb	20.177 ppb	101.108 ppb	84.373 %
Concentration per Run 3	17.577 ppb	12.816 ppb	697.107 ppb	32,393.117 ppb	13.607 ppb	27.359 ppb	18.933 ppb	97.261 ppb	89.944 %
Concentration RSD	1.7 %	4.6 %	2.3 %	1.3 %	5.4 %	2.3 %	4.2 %	2.3 %	5.8 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	13.479 ppb	2.775 ppb	166.013 ppb	0.214 ppb	82.456 %	0.019 ppb	0.252 ppb	83.134 %	-0.037 ppb
Concentration per Run 1	14.397 ppb	2.507 ppb	169.534 ppb	0.131 ppb	79.132 %	0.015 ppb	0.260 ppb	78.246 %	-0.050 ppb
Concentration per Run 2	13.247 ppb	2.418 ppb	165.598 ppb	0.259 ppb	83.477 %	0.023 ppb	0.304 ppb	83.760 %	-0.030 ppb
Concentration per Run 3	12.795 ppb	3.401 ppb	162.908 ppb	0.251 ppb	84.760 %	0.019 ppb	0.191 ppb	87.395 %	-0.030 ppb
Concentration RSD	6.1 %	19.6 %	2.0 %	33.7 %	3.6 %	21.0 %	22.6 %	5.5 %	31.6 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	126.377 ppb	61.663 %	57.335 %	0.109 ppb	21.109 ppb	83.181 %
Concentration per Run 1	131.528 ppb	58.792 %	55.319 %	0.100 ppb	20.734 ppb	82.152 %
Concentration per Run 2	122.471 ppb	62.993 %	57.790 %	0.113 ppb	21.329 ppb	82.046 %
Concentration per Run 3	125.132 ppb	63.203 %	58.895 %	0.115 ppb	21.264 ppb	85.345 %
Concentration RSD	3.7 %	4.0 %	3.2 %	7.6 %	1.5 %	2.3 %

Alpha ICPMSQ2 Data with SRD

3/5/2024 9:03:09 PM

Analysis index: 143
Analysis label: I2410812-06 6020TL
Analysis started at: 3/5/2024 6:17:54 PM
User name ALPHALAB\a2-icpmsq2
Rack 1
Vial 22
Comment <Comment>

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	90.272 %	94.898 %	0.457 ppb	18,640.785 ppb	42,569.835 ppb	5,475.332 ppb	5,676.613 ppb	181,699.088 ppb	65.938 %
Concentration per Run 1	89.861 %	93.506 %	0.472 ppb	18,429.158 ppb	42,345.789 ppb	5,390.713 ppb	5,673.033 ppb	177,733.085 ppb	65.773 %
Concentration per Run 2	89.605 %	95.454 %	0.437 ppb	17,981.997 ppb	40,784.067 ppb	5,234.255 ppb	5,348.009 ppb	175,137.193 ppb	65.197 %
Concentration per Run 3	91.350 %	95.733 %	0.462 ppb	19,511.202 ppb	44,579.649 ppb	5,801.028 ppb	6,008.796 ppb	192,226.985 ppb	66.844 %
Concentration RSD	1.0 %	1.3 %	4.0 %	4.2 %	4.5 %	5.3 %	5.8 %	5.1 %	1.3 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	13.900 ppb	16.453 ppb	1,117.353 ppb	33,113.746 ppb	9.408 ppb	25.130 ppb	53.880 ppb	270.418 ppb	84.626 %
Concentration per Run 1	13.865 ppb	16.428 ppb	1,112.052 ppb	33,580.698 ppb	9.495 ppb	25.532 ppb	56.445 ppb	273.396 ppb	80.538 %
Concentration per Run 2	14.164 ppb	16.150 ppb	1,097.536 ppb	32,166.567 ppb	9.485 ppb	24.741 ppb	52.631 ppb	264.417 ppb	85.539 %
Concentration per Run 3	13.672 ppb	16.782 ppb	1,142.471 ppb	33,593.974 ppb	9.244 ppb	25.116 ppb	52.564 ppb	273.443 ppb	87.800 %
Concentration RSD	1.8 %	1.9 %	2.1 %	2.5 %	1.5 %	1.6 %	4.1 %	1.9 %	4.4 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	13.246 ppb	2.104 ppb	865.809 ppb	1.936 ppb	78.062 %	0.150 ppb	0.565 ppb	81.717 %	1.197 ppb
Concentration per Run 1	13.617 ppb	1.831 ppb	858.670 ppb	2.005 ppb	75.758 %	0.152 ppb	0.534 ppb	76.876 %	1.203 ppb
Concentration per Run 2	12.715 ppb	2.534 ppb	839.866 ppb	1.877 ppb	76.945 %	0.145 ppb	0.595 ppb	81.738 %	1.130 ppb
Concentration per Run 3	13.406 ppb	1.948 ppb	898.891 ppb	1.925 ppb	81.483 %	0.153 ppb	0.566 ppb	86.536 %	1.257 ppb
Concentration RSD	3.6 %	17.9 %	3.5 %	3.3 %	3.9 %	3.0 %	5.4 %	5.9 %	5.3 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	224.369 ppb	56.261 %	52.181 %	0.203 ppb	115.567 ppb	78.174 %
Concentration per Run 1	226.104 ppb	54.458 %	50.294 %	0.193 ppb	112.156 ppb	78.487 %
Concentration per Run 2	221.793 ppb	56.456 %	51.825 %	0.210 ppb	116.701 ppb	76.976 %
Concentration per Run 3	225.209 ppb	57.868 %	54.422 %	0.208 ppb	117.845 ppb	79.059 %
Concentration RSD	1.0 %	3.0 %	4.0 %	4.6 %	2.6 %	1.4 %

Alpha ICPMSQ2 Data with SRD

3/5/2024 9:03:09 PM

Analysis index:	144	User name	ALPHALAB\a2-icpmsq2	Comment	<Comment>
Analysis label:	xICSA	Rack	4		
Analysis started at:	3/5/2024 6:22:23 PM	Vial	53		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	243.074 %	135.344 %	-0.003 ppb	27,736.589 ppb	11,305.902 ppb	10,051.761 ppb	10,971.190 ppb	32,727.328 ppb	89.504 %
Concentration per Run 1	245.483 %	84.601 %	-0.003 ppb	46,181.162 ppb	18,678.934 ppb	16,447.293 ppb	18,090.906 ppb	54,344.798 ppb	117.308 %
Concentration per Run 2	245.717 %	94.341 %	-0.002 ppb	35,180.232 ppb	14,460.867 ppb	12,965.168 ppb	14,063.217 ppb	41,430.034 ppb	82.963 %
Concentration per Run 3	238.022 %	227.090 %	-0.004 ppb	1,848.373 ppb	777.905 ppb	742.822 ppb	759.445 ppb	2,407.150 ppb	68.240 %
Recovery Percentage 1			-0.585 %	55.473 %	56.530 %	50.259 %	54.856 %	54.546 %	
Concentration RSD	1.8 %	58.8 %	44.2 %	83.2 %	82.8 %	82.1 %	82.7 %	82.6 %	28.1 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.020 ppb	0.148 ppb	0.491 ppb	28,899.218 ppb	0.240 ppb	0.292 ppb	0.190 ppb	0.700 ppb	123.867 %
Concentration per Run 1	-0.027 ppb	0.284 ppb	0.890 ppb	48,144.940 ppb	0.410 ppb	0.663 ppb	0.365 ppb	1.220 ppb	80.866 %
Concentration per Run 2	0.000 ppb	0.200 ppb	0.604 ppb	36,664.676 ppb	0.295 ppb	0.354 ppb	0.221 ppb	0.907 ppb	93.111 %
Concentration per Run 3	-0.034 ppb	-0.041 ppb	-0.022 ppb	1,888.038 ppb	0.015 ppb	-0.142 ppb	-0.016 ppb	-0.026 ppb	197.624 %
Recovery Percentage 1	-0.808 %	14.755 %	49.062 %	57.798 %	47.924 %	14.598 %	19.025 %	14.000 %	
Concentration RSD	89.4 %	114.2 %	95.1 %	83.3 %	84.8 %	139.2 %	101.1 %	92.6 %	51.8 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.060 ppb	0.497 ppb	0.336 ppb	228.117 ppb	120.143 %	0.005 ppb	0.043 ppb	120.019 %	-0.060 ppb
Concentration per Run 1	0.109 ppb	0.846 ppb	0.556 ppb	390.294 ppb	75.938 %	0.008 ppb	0.061 ppb	77.708 %	-0.020 ppb
Concentration per Run 2	0.150 ppb	0.704 ppb	0.420 ppb	278.284 ppb	94.910 %	0.006 ppb	0.062 ppb	93.844 %	-0.064 ppb
Concentration per Run 3	-0.078 ppb	-0.059 ppb	0.033 ppb	15.772 ppb	189.583 %	0.000 ppb	0.005 ppb	188.506 %	-0.097 ppb
Recovery Percentage 1	12.061 %	9.945 %	67.233 %	57.029 %		1.192 %	21.337 %		-1.511 %
Concentration RSD	201.3 %	97.9 %	80.8 %	84.3 %	50.7 %	89.8 %	75.8 %	49.9 %	63.9 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.180 ppb	95.554 %	92.044 %	0.015 ppb	0.276 ppb	89.458 %
Concentration per Run 1	0.376 ppb	55.173 %	50.547 %	0.016 ppb	0.460 ppb	76.550 %
Concentration per Run 2	0.162 ppb	68.479 %	63.111 %	0.028 ppb	0.338 ppb	86.461 %
Concentration per Run 3	0.003 ppb	163.009 %	162.474 %	0.000 ppb	0.029 ppb	105.364 %
Recovery Percentage 1	36.047 %			1.474 %	27.592 %	
Concentration RSD	103.9 %	61.5 %	66.6 %	96.7 %	80.5 %	16.4 %

Alpha ICPMSQ2 Data with SRD

3/5/2024 9:03:09 PM

Analysis index:	145	User name	ALPHALAB\a2-icpmsq2	Comment	<Comment>
Analysis label:	ICSA	Rack	4		
Analysis started at:	3/5/2024 6:27:11 PM	Vial	53		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	86.179 %	90.538 %	0.006 ppb	45,179.966 ppb	**18,516.896 ppb**	16,582.589 ppb	**18,114.627 ppb**	53,977.663 ppb	60.263 %
Concentration per Run 1	86.759 %	94.063 %	0.003 ppb	43,054.672 ppb	17,782.304 ppb	15,744.508 ppb	17,422.203 ppb	52,886.659 ppb	59.762 %
Concentration per Run 2	85.914 %	87.941 %	0.005 ppb	45,320.626 ppb	18,332.069 ppb	16,405.206 ppb	17,900.077 ppb	53,858.851 ppb	60.634 %
Concentration per Run 3	85.865 %	89.610 %	0.009 ppb	47,164.598 ppb	19,436.316 ppb	17,598.053 ppb	19,021.600 ppb	55,187.478 ppb	60.395 %
Recovery Percentage 1			1.134 %	90.360 %	92.584 %	82.913 %	90.573 %	89.963 %	
Concentration RSD	0.6 %	3.5 %	48.9 %	4.6 %	4.5 %	5.7 %	4.5 %	2.1 %	0.7 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.012 ppb	0.290 ppb	0.982 ppb	**48,003.309 ppb**	0.409 ppb	0.635 ppb	0.262 ppb	0.942 ppb	83.047 %
Concentration per Run 1	-0.044 ppb	0.286 ppb	0.808 ppb	49,419.139 ppb	0.449 ppb	0.653 ppb	0.327 ppb	1.014 ppb	75.658 %
Concentration per Run 2	0.094 ppb	0.358 ppb	0.983 ppb	48,266.889 ppb	0.476 ppb	0.712 ppb	0.212 ppb	0.903 ppb	82.200 %
Concentration per Run 3	-0.014 ppb	0.227 ppb	1.154 ppb	46,323.899 ppb	0.303 ppb	0.540 ppb	0.247 ppb	0.909 ppb	91.283 %
Recovery Percentage 1	0.475 %	29.008 %	98.164 %	96.007 %	81.856 %	31.743 %	26.179 %	18.841 %	
Concentration RSD	612.6 %	22.7 %	17.6 %	3.3 %	22.7 %	13.8 %	22.5 %	6.6 %	9.4 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.121 ppb	0.581 ppb	0.489 ppb	**396.141 ppb**	79.560 %	0.003 ppb	0.069 ppb	81.884 %	-0.033 ppb
Concentration per Run 1	0.160 ppb	0.561 ppb	0.515 ppb	413.372 ppb	76.154 %	0.006 ppb	0.076 ppb	78.075 %	-0.053 ppb
Concentration per Run 2	0.121 ppb	0.599 ppb	0.481 ppb	389.619 ppb	80.635 %	0.000 ppb	0.053 ppb	82.740 %	-0.022 ppb
Concentration per Run 3	0.083 ppb	0.582 ppb	0.469 ppb	385.431 ppb	81.889 %	0.003 ppb	0.077 ppb	84.837 %	-0.023 ppb
Recovery Percentage 1	24.272 %	11.612 %	97.715 %	99.035 %		0.683 %	34.320 %		-0.815 %
Concentration RSD	31.5 %	3.3 %	4.8 %	3.8 %	3.8 %	111.0 %	19.4 %	4.2 %	55.4 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.280 ppb	57.338 %	53.067 %	0.027 ppb	0.473 ppb	77.834 %
Concentration per Run 1	0.315 ppb	56.008 %	51.157 %	0.018 ppb	0.453 ppb	77.809 %
Concentration per Run 2	0.302 ppb	56.771 %	52.747 %	0.029 ppb	0.485 ppb	76.053 %
Concentration per Run 3	0.221 ppb	59.235 %	55.296 %	0.032 ppb	0.480 ppb	79.640 %
Recovery Percentage 1	55.905 %			2.666 %	47.269 %	
Concentration RSD	18.3 %	2.9 %	3.9 %	27.7 %	3.6 %	2.3 %

Alpha ICPMSQ2 Data with SRD

3/5/2024 9:03:09 PM

Analysis index:	146	User name	ALPHALAB\a2-icpmsq2	Comment	<Comment>
Analysis label:	I2410871-01 6020TL	Rack	1		
Analysis started at:	3/5/2024 6:36:03 PM	Vial	23		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	80.720 %	96.382 %	0.005 ppb	9.260 ppb	81.227 ppb	13.429 ppb	8.866 ppb	214.644 ppb	67.734 %
Concentration per Run 1	79.772 %	94.620 %	0.007 ppb	8.823 ppb	79.791 ppb	14.078 ppb	8.863 ppb	219.744 ppb	68.109 %
Concentration per Run 2	81.182 %	89.610 %	0.001 ppb	12.775 ppb	89.700 ppb	14.739 ppb	9.590 ppb	250.658 ppb	67.994 %
Concentration per Run 3	81.205 %	104.917 %	0.007 ppb	6.181 ppb	74.189 ppb	11.469 ppb	8.146 ppb	173.532 ppb	67.097 %
Concentration RSD	1.0 %	8.1 %	72.8 %	35.8 %	9.7 %	12.9 %	8.1 %	18.1 %	0.8 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.017 ppb	0.061 ppb	0.739 ppb	36.584 ppb	0.013 ppb	0.121 ppb	0.373 ppb	0.996 ppb	81.116 %
Concentration per Run 1	0.006 ppb	0.073 ppb	0.794 ppb	32.761 ppb	0.012 ppb	0.209 ppb	0.361 ppb	1.005 ppb	80.239 %
Concentration per Run 2	0.023 ppb	0.078 ppb	0.811 ppb	36.309 ppb	0.007 ppb	0.103 ppb	0.466 ppb	1.068 ppb	83.021 %
Concentration per Run 3	0.020 ppb	0.031 ppb	0.611 ppb	40.683 ppb	0.021 ppb	0.051 ppb	0.293 ppb	0.914 ppb	80.088 %
Concentration RSD	54.2 %	43.0 %	15.0 %	10.8 %	50.8 %	66.8 %	23.3 %	7.8 %	2.0 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.048 ppb	-0.046 ppb	0.338 ppb	0.209 ppb	76.927 %	0.000 ppb	0.000 ppb	75.976 %	-0.097 ppb
Concentration per Run 1	0.003 ppb	-0.053 ppb	0.321 ppb	0.207 ppb	76.212 %	0.000 ppb	0.003 ppb	73.732 %	-0.098 ppb
Concentration per Run 2	0.031 ppb	-0.060 ppb	0.359 ppb	0.222 ppb	79.618 %	0.001 ppb	-0.001 ppb	78.029 %	-0.104 ppb
Concentration per Run 3	0.111 ppb	-0.026 ppb	0.334 ppb	0.197 ppb	74.951 %	0.001 ppb	-0.001 ppb	76.169 %	-0.089 ppb
Concentration RSD	116.6 %	39.1 %	5.7 %	6.0 %	3.1 %	142.1 %	601.9 %	2.8 %	7.4 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.220 ppb	78.559 %	78.290 %	0.013 ppb	0.173 ppb	76.498 %
Concentration per Run 1	0.210 ppb	76.813 %	74.617 %	0.005 ppb	0.182 ppb	77.420 %
Concentration per Run 2	0.263 ppb	80.183 %	80.873 %	0.018 ppb	0.182 ppb	76.895 %
Concentration per Run 3	0.187 ppb	78.681 %	79.381 %	0.016 ppb	0.154 ppb	75.180 %
Concentration RSD	17.6 %	2.1 %	4.2 %	51.5 %	9.6 %	1.5 %

Alpha ICPMSQ2 Data with SRD

3/5/2024 9:03:09 PM

Analysis index: 147
Analysis label: I2410677-02 6020TL
Analysis started at: 3/5/2024 6:40:32 PM
User name ALPHALAB\a2-icpmsq2
Rack 1
Vial 14
Comment <Comment>

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	92.162 %	89.239 %	0.015 ppb	230,341.118 ppb	20,510.388 ppb	132.630 ppb	67,237.804 ppb	122,026.180 ppb	59.593 %
Concentration per Run 1	92.389 %	85.436 %	0.015 ppb	237,864.403 ppb	20,998.504 ppb	133.035 ppb	69,130.310 ppb	125,714.014 ppb	59.286 %
Concentration per Run 2	91.807 %	84.601 %	0.016 ppb	238,091.745 ppb	21,155.847 ppb	136.519 ppb	70,470.460 ppb	127,495.707 ppb	59.447 %
Concentration per Run 3	92.290 %	97.681 %	0.013 ppb	215,067.208 ppb	19,376.812 ppb	128.338 ppb	62,112.642 ppb	112,868.818 ppb	60.047 %
Concentration RSD	0.3 %	8.2 %	12.1 %	5.7 %	4.8 %	3.1 %	6.7 %	6.5 %	0.7 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	2.779 ppb	2.407 ppb	480.185 ppb	1,083.927 ppb	0.521 ppb	1.548 ppb	0.639 ppb	2.705 ppb	75.768 %
Concentration per Run 1	2.786 ppb	2.372 ppb	492.196 ppb	1,130.131 ppb	0.527 ppb	1.539 ppb	0.716 ppb	2.860 ppb	72.665 %
Concentration per Run 2	2.973 ppb	2.540 ppb	498.710 ppb	1,091.515 ppb	0.597 ppb	1.701 ppb	0.620 ppb	2.800 ppb	73.175 %
Concentration per Run 3	2.577 ppb	2.310 ppb	449.651 ppb	1,030.134 ppb	0.439 ppb	1.405 ppb	0.581 ppb	2.455 ppb	81.465 %
Concentration RSD	7.1 %	5.0 %	5.5 %	4.7 %	15.2 %	9.6 %	10.9 %	8.1 %	6.5 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	11.062 ppb	0.115 ppb	941.843 ppb	5.588 ppb	71.896 %	0.001 ppb	0.000 ppb	73.128 %	0.042 ppb
Concentration per Run 1	10.783 ppb	-0.065 ppb	914.987 ppb	5.822 ppb	70.004 %	0.000 ppb	-0.001 ppb	69.370 %	0.036 ppb
Concentration per Run 2	11.647 ppb	0.356 ppb	978.656 ppb	5.241 ppb	71.705 %	-0.002 ppb	0.003 ppb	74.726 %	0.054 ppb
Concentration per Run 3	10.755 ppb	0.055 ppb	931.885 ppb	5.701 ppb	73.979 %	0.003 ppb	-0.001 ppb	75.287 %	0.036 ppb
Concentration RSD	4.6 %	188.2 %	3.5 %	5.5 %	2.8 %	452.3 %	585.5 %	4.5 %	25.1 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	93.123 ppb	55.280 %	53.281 %	0.015 ppb	0.379 ppb	69.892 %
Concentration per Run 1	91.404 ppb	53.426 %	51.118 %	0.008 ppb	0.359 ppb	69.544 %
Concentration per Run 2	93.058 ppb	55.381 %	53.983 %	0.018 ppb	0.368 ppb	71.088 %
Concentration per Run 3	94.908 ppb	57.034 %	54.741 %	0.017 ppb	0.408 ppb	69.043 %
Concentration RSD	1.9 %	3.3 %	3.6 %	36.5 %	6.9 %	1.5 %

Alpha ICPMSQ2 Data with SRD

3/5/2024 9:03:09 PM

Analysis index:	148	User name	ALPHALAB\a2-icpmsq2	Comment	<Comment>
Analysis label:	I2410677-02d10 6020TL	Rack	1		
Analysis started at:	3/5/2024 6:44:58 PM	Vial	35		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	87.975 %	88.404 %	0.002 ppb	23,002.338 ppb	2,037.715 ppb	16.378 ppb	6,457.184 ppb	11,955.942 ppb	70.915 %
Concentration per Run 1	87.588 %	87.106 %	0.003 ppb	22,708.182 ppb	2,023.615 ppb	15.730 ppb	6,196.504 ppb	11,418.924 ppb	71.751 %
Concentration per Run 2	88.067 %	90.167 %	0.004 ppb	22,966.261 ppb	2,059.858 ppb	16.727 ppb	6,447.305 ppb	11,927.693 ppb	69.916 %
Concentration per Run 3	88.271 %	87.941 %	-0.002 ppb	23,332.571 ppb	2,029.673 ppb	16.676 ppb	6,727.743 ppb	12,521.210 ppb	71.077 %
Concentration RSD	0.4 %	1.8 %	204.3 %	1.4 %	1.0 %	3.4 %	4.1 %	4.6 %	1.3 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.253 ppb	0.227 ppb	46.390 ppb	113.027 ppb	0.067 ppb	0.262 ppb	0.450 ppb	0.710 ppb	78.990 %
Concentration per Run 1	0.252 ppb	0.228 ppb	43.086 ppb	119.487 ppb	0.092 ppb	0.329 ppb	0.443 ppb	0.598 ppb	81.824 %
Concentration per Run 2	0.322 ppb	0.238 ppb	46.837 ppb	114.416 ppb	0.059 ppb	0.240 ppb	0.468 ppb	0.795 ppb	74.700 %
Concentration per Run 3	0.184 ppb	0.216 ppb	49.248 ppb	105.177 ppb	0.051 ppb	0.216 ppb	0.439 ppb	0.735 ppb	80.447 %
Concentration RSD	27.2 %	4.8 %	6.7 %	6.4 %	33.0 %	22.8 %	3.5 %	14.2 %	4.8 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	1.127 ppb	0.005 ppb	87.037 ppb	0.577 ppb	75.114 %	0.002 ppb	-0.001 ppb	73.455 %	-0.082 ppb
Concentration per Run 1	1.062 ppb	-0.029 ppb	86.379 ppb	0.638 ppb	72.925 %	0.001 ppb	-0.001 ppb	70.917 %	-0.088 ppb
Concentration per Run 2	1.224 ppb	0.077 ppb	86.449 ppb	0.506 ppb	74.358 %	0.003 ppb	-0.001 ppb	72.646 %	-0.089 ppb
Concentration per Run 3	1.096 ppb	-0.034 ppb	88.283 ppb	0.587 ppb	78.060 %	0.002 ppb	-0.001 ppb	76.803 %	-0.068 ppb
Concentration RSD	7.6 %	1,386.8 %	1.2 %	11.5 %	3.5 %	56.4 %	0.0 %	4.1 %	14.7 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	8.231 ppb	68.152 %	66.552 %	0.011 ppb	0.129 ppb	72.568 %
Concentration per Run 1	8.631 ppb	66.907 %	65.617 %	0.003 ppb	0.134 ppb	71.877 %
Concentration per Run 2	8.014 ppb	68.152 %	66.126 %	0.013 ppb	0.127 ppb	71.449 %
Concentration per Run 3	8.048 ppb	69.398 %	67.912 %	0.017 ppb	0.126 ppb	74.378 %
Concentration RSD	4.2 %	1.8 %	1.8 %	66.1 %	3.3 %	2.2 %

Alpha ICPMSQ2 Data with SRD

3/5/2024 9:03:09 PM

Analysis index: 149 User name ALPHALAB\a2-icpmsq2 Comment <Comment>
Analysis label: CCV Rack 0
Analysis started at: 3/5/2024 6:49:27 PM Vial 9

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	86.329 %	82.838 %	60.267 ppb	5,775.477 ppb	5,862.462 ppb	59.101 ppb	5,615.402 ppb	5,748.366 ppb	76.335 %
Concentration per Run 1	85.364 %	80.705 %	60.505 ppb	5,854.230 ppb	5,947.879 ppb	59.330 ppb	5,690.333 ppb	5,897.997 ppb	74.390 %
Concentration per Run 2	85.526 %	89.889 %	59.755 ppb	5,284.424 ppb	5,463.274 ppb	51.988 ppb	5,261.114 ppb	5,515.450 ppb	77.141 %
Concentration per Run 3	88.096 %	77.922 %	60.541 ppb	6,187.778 ppb	6,176.233 ppb	65.985 ppb	5,894.759 ppb	5,831.651 ppb	77.475 %
Recovery Percentage 1			100.445 %	96.258 %	97.708 %	98.502 %	93.590 %	95.806 %	
Concentration RSD	1.8 %	7.6 %	0.7 %	7.9 %	6.2 %	11.8 %	5.8 %	3.6 %	2.2 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	58.593 ppb	59.100 ppb	60.024 ppb	6,057.524 ppb	62.612 ppb	62.127 ppb	63.458 ppb	63.081 ppb	75.348 %
Concentration per Run 1	59.025 ppb	61.055 ppb	63.008 ppb	6,207.318 ppb	64.563 ppb	64.701 ppb	64.146 ppb	65.151 ppb	71.582 %
Concentration per Run 2	55.981 ppb	56.661 ppb	59.184 ppb	5,944.293 ppb	61.951 ppb	59.820 ppb	63.542 ppb	62.346 ppb	75.423 %
Concentration per Run 3	60.772 ppb	59.584 ppb	57.880 ppb	6,020.961 ppb	61.322 ppb	61.859 ppb	62.685 ppb	61.746 ppb	79.040 %
Recovery Percentage 1	97.655 %	98.500 %	100.041 %	100.959 %	104.353 %	103.545 %	105.763 %	105.135 %	
Concentration RSD	4.1 %	3.8 %	4.4 %	2.2 %	2.7 %	3.9 %	1.2 %	2.9 %	4.9 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	62.105 ppb	62.369 ppb	58.997 ppb	59.124 ppb	74.628 %	59.678 ppb	59.616 ppb	73.718 %	55.264 ppb
Concentration per Run 1	63.074 ppb	61.846 ppb	60.099 ppb	62.218 ppb	72.096 %	60.070 ppb	60.108 ppb	71.283 %	57.083 ppb
Concentration per Run 2	61.851 ppb	63.528 ppb	58.430 ppb	58.153 ppb	72.222 %	60.056 ppb	59.841 ppb	70.383 %	55.526 ppb
Concentration per Run 3	61.391 ppb	61.734 ppb	58.461 ppb	57.000 ppb	79.564 %	58.907 ppb	58.898 ppb	79.489 %	53.184 ppb
Recovery Percentage 1	103.508 %	103.949 %	98.328 %	98.540 %		99.463 %	99.359 %		92.107 %
Concentration RSD	1.4 %	1.6 %	1.6 %	4.6 %	5.7 %	1.1 %	1.1 %	6.8 %	3.6 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	57.694 ppb	69.985 %	68.460 %	56.891 ppb	57.744 ppb	72.583 %
Concentration per Run 1	58.198 ppb	67.714 %	65.870 %	57.096 ppb	57.622 ppb	70.799 %
Concentration per Run 2	57.992 ppb	68.585 %	66.725 %	56.386 ppb	58.154 ppb	70.036 %
Concentration per Run 3	56.892 ppb	73.656 %	72.786 %	57.190 ppb	57.455 ppb	76.914 %
Recovery Percentage 1	96.157 %			94.818 %	96.240 %	
Concentration RSD	1.2 %	4.6 %	5.5 %	0.8 %	0.6 %	5.2 %

Alpha ICPMSQ2 Data with SRD

3/5/2024 9:03:09 PM

Analysis index: 150
Analysis label: CCB
Analysis started at: 3/5/2024 6:53:58 PM
User name ALPHALAB\a2-icpmsq2
Rack 0
Vial 10
Comment <Comment>

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	80.437 %	84.879 %	0.007 ppb	1.801 ppb	0.126 ppb	-0.591 ppb	14.607 ppb	4.701 ppb	72.105 %
Concentration per Run 1	81.497 %	84.879 %	0.009 ppb	0.795 ppb	0.861 ppb	-0.673 ppb	26.352 ppb	-2.667 ppb	72.743 %
Concentration per Run 2	79.057 %	79.035 %	0.003 ppb	5.542 ppb	-0.558 ppb	-0.394 ppb	14.951 ppb	8.725 ppb	72.762 %
Concentration per Run 3	80.757 %	90.723 %	0.007 ppb	-0.932 ppb	0.076 ppb	-0.705 ppb	2.517 ppb	8.046 ppb	70.812 %
Recovery Percentage 1			1.303 %	1.801 %	0.181 %	-5.906 %	14.607 %	4.701 %	
Concentration RSD	1.6 %	6.9 %	49.9 %	186.1 %	561.7 %	28.9 %	81.6 %	135.9 %	1.6 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.014 ppb	0.004 ppb	0.021 ppb	6.214 ppb	0.004 ppb	0.070 ppb	0.025 ppb	0.299 ppb	72.445 %
Concentration per Run 1	-0.025 ppb	-0.008 ppb	0.052 ppb	3.505 ppb	0.009 ppb	0.229 ppb	0.020 ppb	0.323 ppb	74.640 %
Concentration per Run 2	-0.004 ppb	0.028 ppb	0.007 ppb	10.545 ppb	0.009 ppb	0.038 ppb	0.021 ppb	0.263 ppb	72.725 %
Concentration per Run 3	0.071 ppb	-0.007 ppb	0.005 ppb	4.591 ppb	-0.007 ppb	-0.057 ppb	0.034 ppb	0.310 ppb	69.971 %
Recovery Percentage 1	0.280 %	0.421 %	2.130 %	12.428 %	0.766 %	3.514 %	2.499 %	5.973 %	
Concentration RSD	358.1 %	484.8 %	126.2 %	61.0 %	234.3 %	207.0 %	31.3 %	10.5 %	3.2 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.062 ppb	0.157 ppb	0.011 ppb	0.175 ppb	74.133 %	0.001 ppb	0.002 ppb	72.751 %	0.030 ppb
Concentration per Run 1	0.074 ppb	0.144 ppb	0.005 ppb	0.174 ppb	76.131 %	0.001 ppb	-0.001 ppb	74.301 %	0.020 ppb
Concentration per Run 2	0.052 ppb	0.042 ppb	0.016 ppb	0.188 ppb	75.890 %	0.001 ppb	0.003 ppb	74.768 %	0.036 ppb
Concentration per Run 3	0.059 ppb	0.284 ppb	0.011 ppb	0.161 ppb	70.379 %	0.000 ppb	0.003 ppb	69.184 %	0.034 ppb
Recovery Percentage 1	12.337 %	3.131 %	0.110 %	8.726 %		0.135 %	0.897 %		0.754 %
Concentration RSD	18.6 %	77.7 %	49.4 %	7.9 %	4.4 %	119.7 %	132.5 %	4.3 %	28.0 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.020 ppb	73.360 %	73.542 %	0.245 ppb	0.011 ppb	71.822 %
Concentration per Run 1	0.059 ppb	74.911 %	74.428 %	0.181 ppb	0.007 ppb	73.648 %
Concentration per Run 2	0.008 ppb	75.472 %	74.906 %	0.306 ppb	0.016 ppb	74.268 %
Concentration per Run 3	-0.008 ppb	69.697 %	71.291 %	0.247 ppb	0.010 ppb	67.551 %
Recovery Percentage 1	3.942 %			24.498 %	1.119 %	
Concentration RSD	177.7 %	4.3 %	2.7 %	25.6 %	42.0 %	5.2 %

Alpha ICPMSQ2 Data with SRD

3/5/2024 9:03:09 PM

Analysis index:	151	User name	ALPHALAB\a2-icpmsq2	Comment	<Comment>
Analysis label:	xLCS check	Rack	2		
Analysis started at:	3/5/2024 6:59:23 PM	Vial	36		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	86.205 %	92.022 %	5.314 ppb	905.897 ppb	872.200 ppb	188.301 ppb	869.992 ppb	812.135 ppb	78.640 %
Concentration per Run 1	86.336 %	90.724 %	5.398 ppb	872.753 ppb	849.782 ppb	183.698 ppb	854.232 ppb	855.078 ppb	78.306 %
Concentration per Run 2	85.966 %	92.672 %	5.262 ppb	916.395 ppb	880.751 ppb	190.540 ppb	833.258 ppb	806.287 ppb	78.870 %
Concentration per Run 3	86.314 %	92.672 %	5.283 ppb	928.542 ppb	886.067 ppb	190.665 ppb	922.486 ppb	775.040 ppb	78.743 %
Concentration RSD	0.2 %	1.2 %	1.4 %	3.2 %	2.2 %	2.1 %	5.4 %	5.0 %	0.4 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	46.485 ppb	18.503 ppb	48.732 ppb	234.400 ppb	47.959 ppb	50.790 ppb	25.567 ppb	53.747 ppb	83.004 %
Concentration per Run 1	47.650 ppb	18.335 ppb	49.700 ppb	238.939 ppb	48.429 ppb	51.938 ppb	26.041 ppb	53.782 ppb	77.739 %
Concentration per Run 2	44.029 ppb	18.077 ppb	46.634 ppb	226.939 ppb	46.181 ppb	49.641 ppb	24.403 ppb	51.849 ppb	88.338 %
Concentration per Run 3	47.776 ppb	19.096 ppb	49.861 ppb	237.322 ppb	49.267 ppb	50.791 ppb	26.255 ppb	55.611 ppb	82.933 %
Concentration RSD	4.6 %	2.9 %	3.7 %	2.8 %	3.3 %	2.3 %	4.0 %	3.5 %	6.4 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	7.231 ppb	11.749 ppb	94.213 ppb	92.430 ppb	82.171 %	4.918 ppb	5.208 ppb	81.934 %	27.506 ppb
Concentration per Run 1	8.097 ppb	12.583 ppb	95.800 ppb	94.759 ppb	80.273 %	5.044 ppb	5.352 ppb	79.278 %	28.052 ppb
Concentration per Run 2	6.561 ppb	11.117 ppb	91.643 ppb	91.881 ppb	82.734 %	4.803 ppb	5.279 ppb	81.806 %	27.711 ppb
Concentration per Run 3	7.035 ppb	11.548 ppb	95.195 ppb	90.650 ppb	83.506 %	4.908 ppb	4.994 ppb	84.718 %	26.756 ppb
Concentration RSD	10.9 %	6.4 %	2.4 %	2.3 %	2.1 %	2.5 %	3.6 %	3.3 %	2.4 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	191.489 ppb	80.500 %	79.378 %	13.000 ppb	58.569 ppb	81.278 %
Concentration per Run 1	195.768 ppb	78.137 %	76.394 %	12.956 ppb	58.226 ppb	79.658 %
Concentration per Run 2	190.368 ppb	81.198 %	79.317 %	12.946 ppb	58.992 ppb	81.564 %
Concentration per Run 3	188.329 ppb	82.165 %	82.422 %	13.097 ppb	58.487 ppb	82.613 %
Concentration RSD	2.0 %	2.6 %	3.8 %	0.7 %	0.7 %	1.8 %

Alpha ICPMSQ2 Data with SRD

3/5/2024 9:03:09 PM

Analysis index:	152	User name	ALPHALAB\a2-icpmsq2	Comment	<Comment>
Analysis label:	L2410744-01d10 6020TL	Rack	2		
Analysis started at:	3/5/2024 7:12:26 PM	Vial	37		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	84.895 %	88.033 %	0.004 ppb	7,040.504 ppb	3,365.933 ppb	1.491 ppb	307.290 ppb	1,984.011 ppb	73.516 %
Concentration per Run 1	84.527 %	89.332 %	0.007 ppb	6,959.214 ppb	3,325.371 ppb	0.521 ppb	277.444 ppb	2,121.384 ppb	74.278 %
Concentration per Run 2	85.219 %	90.445 %	0.002 ppb	7,002.885 ppb	3,312.512 ppb	2.538 ppb	327.573 ppb	1,977.512 ppb	73.265 %
Concentration per Run 3	84.938 %	84.323 %	0.002 ppb	7,159.412 ppb	3,459.914 ppb	1.413 ppb	316.853 ppb	1,853.136 ppb	73.005 %
Concentration RSD	0.4 %	3.7 %	80.6 %	1.5 %	2.4 %	67.8 %	8.6 %	6.8 %	0.9 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.052 ppb	4.043 ppb	13.639 ppb	36.165 ppb	0.138 ppb	4.545 ppb	0.272 ppb	3.318 ppb	83.420 %
Concentration per Run 1	0.025 ppb	4.190 ppb	14.174 ppb	37.439 ppb	0.102 ppb	4.609 ppb	0.204 ppb	3.445 ppb	81.046 %
Concentration per Run 2	0.043 ppb	4.060 ppb	14.219 ppb	33.527 ppb	0.166 ppb	4.531 ppb	0.390 ppb	3.367 ppb	79.130 %
Concentration per Run 3	0.087 ppb	3.880 ppb	12.523 ppb	37.528 ppb	0.147 ppb	4.494 ppb	0.223 ppb	3.140 ppb	90.086 %
Concentration RSD	61.6 %	3.9 %	7.1 %	6.3 %	23.8 %	1.3 %	37.6 %	4.8 %	7.0 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.068 ppb	0.248 ppb	5.974 ppb	0.656 ppb	80.570 %	0.002 ppb	0.008 ppb	81.022 %	0.120 ppb
Concentration per Run 1	0.043 ppb	0.012 ppb	6.154 ppb	0.596 ppb	78.281 %	0.005 ppb	0.014 ppb	79.496 %	0.082 ppb
Concentration per Run 2	0.105 ppb	0.405 ppb	6.058 ppb	0.735 ppb	81.394 %	0.001 ppb	0.006 ppb	81.574 %	0.116 ppb
Concentration per Run 3	0.056 ppb	0.327 ppb	5.711 ppb	0.637 ppb	82.034 %	0.001 ppb	0.003 ppb	81.997 %	0.162 ppb
Concentration RSD	48.4 %	83.8 %	3.9 %	10.9 %	2.5 %	118.7 %	75.6 %	1.7 %	33.4 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	6.383 ppb	78.370 %	77.036 %	0.025 ppb	0.009 ppb	80.631 %
Concentration per Run 1	6.137 ppb	77.358 %	74.529 %	0.012 ppb	0.006 ppb	79.846 %
Concentration per Run 2	6.496 ppb	78.741 %	77.172 %	0.032 ppb	0.010 ppb	80.101 %
Concentration per Run 3	6.515 ppb	79.011 %	79.409 %	0.032 ppb	0.011 ppb	81.945 %
Concentration RSD	3.3 %	1.1 %	3.2 %	45.2 %	32.0 %	1.4 %

Alpha ICPMSQ2 Data with SRD

3/5/2024 9:03:09 PM

Analysis index:	153	User name	ALPHALAB\a2-icpmsq2	Comment	<Comment>
Analysis label:	L2410744-02d10 6020TL	Rack	2		
Analysis started at:	3/5/2024 7:16:55 PM	Vial	38		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	83.097 %	84.694 %	0.004 ppb	15,562.643 ppb	3,556.216 ppb	5.923 ppb	579.665 ppb	5,720.047 ppb	72.018 %
Concentration per Run 1	83.165 %	89.332 %	0.003 ppb	14,737.353 ppb	3,321.527 ppb	5.587 ppb	595.127 ppb	5,608.495 ppb	71.555 %
Concentration per Run 2	83.087 %	80.983 %	0.006 ppb	16,056.145 ppb	3,657.462 ppb	5.298 ppb	561.003 ppb	5,850.559 ppb	72.744 %
Concentration per Run 3	83.039 %	83.766 %	0.003 ppb	15,894.431 ppb	3,689.660 ppb	6.885 ppb	582.864 ppb	5,701.088 ppb	71.757 %
Concentration RSD	0.1 %	5.0 %	46.5 %	4.6 %	5.7 %	14.3 %	3.0 %	2.1 %	0.9 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.066 ppb	13.327 ppb	218.704 ppb	734.834 ppb	0.213 ppb	7.838 ppb	0.533 ppb	0.441 ppb	77.130 %
Concentration per Run 1	0.047 ppb	12.999 ppb	217.164 ppb	721.402 ppb	0.203 ppb	8.218 ppb	0.588 ppb	0.400 ppb	75.344 %
Concentration per Run 2	0.048 ppb	13.412 ppb	218.402 ppb	731.380 ppb	0.241 ppb	8.063 ppb	0.609 ppb	0.345 ppb	78.292 %
Concentration per Run 3	0.103 ppb	13.569 ppb	220.545 ppb	751.721 ppb	0.196 ppb	7.232 ppb	0.401 ppb	0.578 ppb	77.753 %
Concentration RSD	47.8 %	2.2 %	0.8 %	2.1 %	11.4 %	6.8 %	21.4 %	27.6 %	2.0 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.424 ppb	0.053 ppb	22.868 ppb	0.511 ppb	76.631 %	0.001 ppb	0.002 ppb	77.718 %	0.003 ppb
Concentration per Run 1	0.347 ppb	0.247 ppb	23.113 ppb	0.492 ppb	74.527 %	0.002 ppb	-0.001 ppb	75.643 %	-0.023 ppb
Concentration per Run 2	0.380 ppb	-0.100 ppb	22.668 ppb	0.439 ppb	76.957 %	0.001 ppb	0.003 ppb	77.619 %	-0.003 ppb
Concentration per Run 3	0.546 ppb	0.012 ppb	22.824 ppb	0.602 ppb	78.408 %	0.001 ppb	0.003 ppb	79.892 %	0.036 ppb
Concentration RSD	25.1 %	335.1 %	1.0 %	16.3 %	2.6 %	59.9 %	138.5 %	2.7 %	904.4 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	18.301 ppb	73.156 %	71.037 %	0.020 ppb	0.241 ppb	76.910 %
Concentration per Run 1	19.008 ppb	71.658 %	69.530 %	0.008 ppb	0.231 ppb	76.724 %
Concentration per Run 2	17.793 ppb	74.014 %	71.100 %	0.027 ppb	0.248 ppb	76.217 %
Concentration per Run 3	18.101 ppb	73.795 %	72.480 %	0.026 ppb	0.245 ppb	77.789 %
Concentration RSD	3.5 %	1.8 %	2.1 %	53.8 %	3.9 %	1.0 %

Alpha ICPMSQ2 Data with SRD

3/5/2024 9:03:09 PM

Analysis index: 154
Analysis label: L2410744-03d10 6020TL
Analysis started at: 3/5/2024 7:21:23 PM
User name ALPHALAB\a2-icpmsq2
Rack 2
Vial 39
Comment <Comment>

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	81.619 %	77.365 %	0.003 ppb	7,872.021 ppb	3,774.540 ppb	1.112 ppb	342.115 ppb	2,139.350 ppb	70.629 %
Concentration per Run 1	81.812 %	74.304 %	0.000 ppb	7,996.978 ppb	3,808.852 ppb	1.210 ppb	365.227 ppb	2,281.528 ppb	70.309 %
Concentration per Run 2	81.692 %	82.931 %	0.011 ppb	7,523.235 ppb	3,642.757 ppb	1.639 ppb	296.522 ppb	1,972.273 ppb	70.925 %
Concentration per Run 3	81.354 %	74.861 %	-0.001 ppb	8,095.849 ppb	3,872.011 ppb	0.486 ppb	364.597 ppb	2,164.249 ppb	70.655 %
Concentration RSD	0.3 %	6.2 %	203.3 %	3.9 %	3.1 %	52.4 %	11.5 %	7.3 %	0.4 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.153 ppb	4.179 ppb	13.948 ppb	36.731 ppb	0.143 ppb	4.623 ppb	0.277 ppb	0.326 ppb	79.724 %
Concentration per Run 1	0.131 ppb	4.374 ppb	13.868 ppb	38.347 ppb	0.143 ppb	3.824 ppb	0.236 ppb	0.343 ppb	76.017 %
Concentration per Run 2	0.203 ppb	3.817 ppb	14.127 ppb	39.917 ppb	0.178 ppb	4.165 ppb	0.266 ppb	0.389 ppb	82.408 %
Concentration per Run 3	0.123 ppb	4.345 ppb	13.848 ppb	31.927 ppb	0.107 ppb	5.879 ppb	0.329 ppb	0.245 ppb	80.746 %
Concentration RSD	28.8 %	7.5 %	1.1 %	11.5 %	25.1 %	23.8 %	17.2 %	22.7 %	4.2 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.057 ppb	0.233 ppb	6.162 ppb	0.612 ppb	75.944 %	0.000 ppb	0.006 ppb	76.021 %	-0.014 ppb
Concentration per Run 1	0.062 ppb	0.122 ppb	6.231 ppb	0.608 ppb	73.761 %	-0.002 ppb	0.003 ppb	72.465 %	-0.026 ppb
Concentration per Run 2	0.064 ppb	0.439 ppb	6.067 ppb	0.613 ppb	76.954 %	0.001 ppb	0.007 ppb	76.024 %	0.015 ppb
Concentration per Run 3	0.043 ppb	0.139 ppb	6.188 ppb	0.615 ppb	77.115 %	0.001 ppb	0.007 ppb	79.574 %	-0.030 ppb
Concentration RSD	20.5 %	76.4 %	1.4 %	0.6 %	2.5 %	2,093.6 %	37.6 %	4.7 %	183.1 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	6.268 ppb	73.225 %	71.844 %	0.016 ppb	0.008 ppb	73.557 %
Concentration per Run 1	5.884 ppb	70.016 %	68.863 %	0.007 ppb	0.003 ppb	71.719 %
Concentration per Run 2	6.625 ppb	75.058 %	72.620 %	0.021 ppb	0.008 ppb	73.904 %
Concentration per Run 3	6.294 ppb	74.601 %	74.047 %	0.021 ppb	0.014 ppb	75.049 %
Concentration RSD	5.9 %	3.8 %	3.7 %	46.9 %	65.8 %	2.3 %

Alpha ICPMSQ2 Data with SRD

3/5/2024 9:03:09 PM

Analysis index:	155	User name	ALPHALAB\a2-icpmsq2	Comment	<Comment>
Analysis label:	I2410677-01d10 6020TL	Rack	2		
Analysis started at:	3/5/2024 7:28:08 PM	Vial	40		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	79.803 %	85.992 %	0.004 ppb	19,549.392 ppb	1,838.924 ppb	15.226 ppb	6,653.325 ppb	11,091.742 ppb	64.463 %
Concentration per Run 1	79.504 %	84.044 %	0.000 ppb	20,095.146 ppb	1,874.935 ppb	15.459 ppb	6,895.077 ppb	11,357.075 ppb	63.394 %
Concentration per Run 2	79.821 %	90.167 %	0.009 ppb	18,975.454 ppb	1,795.954 ppb	16.627 ppb	6,728.949 ppb	11,181.459 ppb	64.889 %
Concentration per Run 3	80.084 %	83.766 %	0.002 ppb	19,577.576 ppb	1,845.883 ppb	13.591 ppb	6,335.948 ppb	10,736.691 ppb	65.107 %
Concentration RSD	0.4 %	4.2 %	127.8 %	2.9 %	2.2 %	10.1 %	4.3 %	2.9 %	1.4 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.264 ppb	0.228 ppb	43.107 ppb	100.244 ppb	0.059 ppb	0.119 ppb	0.093 ppb	0.503 ppb	73.174 %
Concentration per Run 1	0.240 ppb	0.263 ppb	45.043 ppb	99.304 ppb	0.070 ppb	0.122 ppb	0.168 ppb	0.490 ppb	74.087 %
Concentration per Run 2	0.264 ppb	0.216 ppb	44.009 ppb	103.060 ppb	0.068 ppb	0.175 ppb	0.059 ppb	0.502 ppb	68.819 %
Concentration per Run 3	0.289 ppb	0.204 ppb	40.268 ppb	98.370 ppb	0.038 ppb	0.060 ppb	0.052 ppb	0.517 ppb	76.615 %
Concentration RSD	9.4 %	13.7 %	5.8 %	2.5 %	30.1 %	48.7 %	70.2 %	2.7 %	5.4 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.996 ppb	0.069 ppb	84.677 ppb	0.504 ppb	69.437 %	0.001 ppb	0.003 ppb	70.714 %	-0.045 ppb
Concentration per Run 1	0.904 ppb	0.086 ppb	84.508 ppb	0.482 ppb	71.566 %	0.002 ppb	-0.001 ppb	71.438 %	-0.041 ppb
Concentration per Run 2	1.203 ppb	0.091 ppb	88.063 ppb	0.544 ppb	69.397 %	0.000 ppb	0.003 ppb	72.817 %	-0.050 ppb
Concentration per Run 3	0.881 ppb	0.029 ppb	81.459 ppb	0.485 ppb	67.349 %	0.000 ppb	0.008 ppb	67.886 %	-0.045 ppb
Concentration RSD	18.0 %	49.7 %	3.9 %	6.9 %	3.0 %	223.1 %	130.6 %	3.6 %	9.9 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	8.133 ppb	64.739 %	63.628 %	0.011 ppb	0.044 ppb	68.817 %
Concentration per Run 1	8.977 ppb	64.766 %	62.969 %	0.004 ppb	0.042 ppb	70.576 %
Concentration per Run 2	7.836 ppb	65.669 %	65.147 %	0.011 ppb	0.037 ppb	69.089 %
Concentration per Run 3	7.587 ppb	63.782 %	62.768 %	0.018 ppb	0.054 ppb	66.787 %
Concentration RSD	9.1 %	1.5 %	2.1 %	64.7 %	20.4 %	2.8 %

Alpha ICPMSQ2 Data with SRD

3/5/2024 9:03:09 PM

Analysis index:	156	User name	ALPHALAB\a2-icpmsq2	Comment	<Comment>
Analysis label:	I2410677-02d10 6020TL	Rack	2		
Analysis started at:	3/5/2024 7:32:37 PM	Vial	42		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	79.398 %	82.653 %	0.004 ppb	23,764.796 ppb	2,113.992 ppb	14.488 ppb	6,750.625 ppb	12,735.820 ppb	63.540 %
Concentration per Run 1	79.641 %	81.818 %	0.010 ppb	24,082.515 ppb	2,077.846 ppb	14.485 ppb	6,729.698 ppb	13,281.450 ppb	64.203 %
Concentration per Run 2	78.917 %	79.870 %	0.000 ppb	23,948.239 ppb	2,177.430 ppb	14.595 ppb	6,960.865 ppb	12,736.847 ppb	63.102 %
Concentration per Run 3	79.638 %	86.271 %	0.003 ppb	23,263.635 ppb	2,086.698 ppb	14.383 ppb	6,561.311 ppb	12,189.163 ppb	63.316 %
Concentration RSD	0.5 %	4.0 %	116.4 %	1.8 %	2.6 %	0.7 %	3.0 %	4.3 %	0.9 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.392 ppb	0.228 ppb	48.564 ppb	111.751 ppb	0.067 ppb	0.128 ppb	0.035 ppb	0.449 ppb	74.555 %
Concentration per Run 1	0.386 ppb	0.231 ppb	50.509 ppb	114.606 ppb	0.089 ppb	0.078 ppb	0.022 ppb	0.464 ppb	71.407 %
Concentration per Run 2	0.449 ppb	0.232 ppb	48.196 ppb	111.907 ppb	0.044 ppb	0.194 ppb	0.019 ppb	0.495 ppb	75.717 %
Concentration per Run 3	0.341 ppb	0.222 ppb	46.988 ppb	108.741 ppb	0.068 ppb	0.111 ppb	0.062 ppb	0.389 ppb	76.541 %
Concentration RSD	13.9 %	2.4 %	3.7 %	2.6 %	33.1 %	46.5 %	69.7 %	12.2 %	3.7 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	1.113 ppb	-0.092 ppb	94.014 ppb	0.553 ppb	71.322 %	0.001 ppb	-0.001 ppb	70.120 %	-0.030 ppb
Concentration per Run 1	1.174 ppb	-0.080 ppb	94.746 ppb	0.623 ppb	70.987 %	0.004 ppb	-0.001 ppb	68.012 %	-0.027 ppb
Concentration per Run 2	1.049 ppb	-0.098 ppb	92.540 ppb	0.582 ppb	71.759 %	-0.002 ppb	-0.001 ppb	69.755 %	-0.035 ppb
Concentration per Run 3	1.116 ppb	-0.098 ppb	94.755 ppb	0.454 ppb	71.220 %	0.000 ppb	-0.001 ppb	72.594 %	-0.028 ppb
Concentration RSD	5.6 %	11.6 %	1.4 %	16.0 %	0.6 %	416.1 %	0.0 %	3.3 %	13.9 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	8.491 ppb	65.768 %	64.009 %	0.012 ppb	0.040 ppb	69.796 %
Concentration per Run 1	8.872 ppb	64.077 %	63.403 %	0.003 ppb	0.036 ppb	68.934 %
Concentration per Run 2	8.217 ppb	66.351 %	63.415 %	0.013 ppb	0.042 ppb	69.560 %
Concentration per Run 3	8.383 ppb	66.876 %	65.211 %	0.020 ppb	0.042 ppb	70.895 %
Concentration RSD	4.0 %	2.3 %	1.6 %	67.6 %	8.0 %	1.4 %

Alpha ICPMSQ2 Data with SRD

3/5/2024 9:03:09 PM

Analysis index: 157
Analysis label: I2410792-01d10 6020TL
Analysis started at: 3/5/2024 7:37:05 PM
User name ALPHALAB\a2-icpmsq2
Rack 2
Vial 43
Comment <Comment>

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	80.130 %	90.352 %	0.003 ppb	3,143.709 ppb	1,265.411 ppb	0.122 ppb	1,549.889 ppb	9,515.841 ppb	69.209 %
Concentration per Run 1	79.972 %	91.280 %	0.004 ppb	3,228.439 ppb	1,300.225 ppb	0.568 ppb	1,699.339 ppb	10,113.030 ppb	69.609 %
Concentration per Run 2	80.138 %	89.054 %	0.003 ppb	3,113.849 ppb	1,231.673 ppb	0.248 ppb	1,462.595 ppb	8,941.337 ppb	69.016 %
Concentration per Run 3	80.281 %	90.723 %	0.002 ppb	3,088.838 ppb	1,264.336 ppb	-0.449 ppb	1,487.731 ppb	9,493.155 ppb	69.002 %
Concentration RSD	0.2 %	1.3 %	33.9 %	2.4 %	2.7 %	425.0 %	8.4 %	6.2 %	0.5 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.008 ppb	0.038 ppb	102.895 ppb	2,976.967 ppb	0.115 ppb	0.128 ppb	0.159 ppb	0.549 ppb	80.453 %
Concentration per Run 1	-0.028 ppb	0.039 ppb	103.816 ppb	2,995.622 ppb	0.113 ppb	0.152 ppb	0.219 ppb	0.569 ppb	82.888 %
Concentration per Run 2	0.008 ppb	0.038 ppb	103.088 ppb	3,087.896 ppb	0.113 ppb	0.099 ppb	0.166 ppb	0.518 ppb	79.341 %
Concentration per Run 3	0.043 ppb	0.037 ppb	101.781 ppb	2,847.383 ppb	0.118 ppb	0.133 ppb	0.091 ppb	0.561 ppb	79.130 %
Concentration RSD	455.1 %	1.5 %	1.0 %	4.1 %	2.3 %	20.9 %	40.6 %	5.0 %	2.6 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.438 ppb	0.015 ppb	37.292 ppb	0.025 ppb	75.592 %	0.000 ppb	-0.001 ppb	76.851 %	-0.059 ppb
Concentration per Run 1	0.491 ppb	0.018 ppb	38.580 ppb	0.012 ppb	74.621 %	0.001 ppb	-0.001 ppb	77.554 %	-0.073 ppb
Concentration per Run 2	0.349 ppb	0.104 ppb	36.526 ppb	0.037 ppb	75.810 %	0.000 ppb	-0.001 ppb	75.790 %	-0.047 ppb
Concentration per Run 3	0.476 ppb	-0.078 ppb	36.770 ppb	0.024 ppb	76.345 %	-0.002 ppb	-0.001 ppb	77.208 %	-0.057 ppb
Concentration RSD	17.8 %	611.8 %	3.0 %	50.1 %	1.2 %	398.1 %	0.0 %	1.2 %	22.8 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	8.854 ppb	71.632 %	70.563 %	0.012 ppb	0.010 ppb	73.870 %
Concentration per Run 1	9.330 ppb	71.449 %	71.373 %	0.003 ppb	0.014 ppb	73.482 %
Concentration per Run 2	8.574 ppb	71.822 %	69.825 %	0.015 ppb	0.007 ppb	73.313 %
Concentration per Run 3	8.657 ppb	71.626 %	70.490 %	0.018 ppb	0.010 ppb	74.814 %
Concentration RSD	4.7 %	0.3 %	1.1 %	69.7 %	30.8 %	1.1 %

Alpha ICPMSQ2 Data with SRD

3/5/2024 9:03:09 PM

Analysis index:	158	User name	ALPHALAB\a2-icpmsq2	Comment	<Comment>
Analysis label:	I2410812-01d10 6020TL	Rack	2		
Analysis started at:	3/5/2024 7:41:33 PM	Vial	44		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	80.414 %	80.055 %	0.013 ppb	560.846 ppb	2,413.342 ppb	195.420 ppb	221.954 ppb	12,034.173 ppb	67.235 %
Concentration per Run 1	80.027 %	84.044 %	0.013 ppb	551.408 ppb	2,314.997 ppb	191.722 ppb	211.298 ppb	11,848.436 ppb	66.681 %
Concentration per Run 2	80.952 %	77.087 %	0.017 ppb	550.272 ppb	2,429.628 ppb	187.624 ppb	232.480 ppb	11,618.386 ppb	67.517 %
Concentration per Run 3	80.262 %	79.035 %	0.009 ppb	580.860 ppb	2,495.402 ppb	206.915 ppb	222.084 ppb	12,635.698 ppb	67.506 %
Concentration RSD	0.6 %	4.5 %	32.5 %	3.1 %	3.8 %	5.2 %	4.8 %	4.4 %	0.7 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.374 ppb	0.492 ppb	239.481 ppb	1,043.271 ppb	0.245 ppb	0.708 ppb	0.455 ppb	2.984 ppb	75.992 %
Concentration per Run 1	0.326 ppb	0.495 ppb	235.460 ppb	1,000.398 ppb	0.253 ppb	0.579 ppb	0.451 ppb	2.881 ppb	76.556 %
Concentration per Run 2	0.470 ppb	0.433 ppb	242.823 ppb	1,099.771 ppb	0.216 ppb	0.972 ppb	0.492 ppb	3.249 ppb	72.664 %
Concentration per Run 3	0.327 ppb	0.548 ppb	240.159 ppb	1,029.643 ppb	0.266 ppb	0.572 ppb	0.422 ppb	2.823 ppb	78.756 %
Concentration RSD	22.1 %	11.7 %	1.6 %	4.9 %	10.5 %	32.4 %	7.7 %	7.8 %	4.1 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	1.532 ppb	0.091 ppb	37.592 ppb	0.118 ppb	74.039 %	0.001 ppb	0.003 ppb	74.687 %	-0.070 ppb
Concentration per Run 1	1.367 ppb	0.098 ppb	37.367 ppb	0.064 ppb	72.794 %	0.001 ppb	0.003 ppb	73.867 %	-0.092 ppb
Concentration per Run 2	1.717 ppb	0.019 ppb	37.931 ppb	0.177 ppb	75.198 %	0.002 ppb	-0.001 ppb	73.563 %	-0.056 ppb
Concentration per Run 3	1.513 ppb	0.156 ppb	37.478 ppb	0.112 ppb	74.126 %	0.001 ppb	0.007 ppb	76.629 %	-0.061 ppb
Concentration RSD	11.5 %	76.1 %	0.8 %	48.2 %	1.6 %	51.2 %	130.1 %	2.3 %	28.2 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	6.708 ppb	68.150 %	64.877 %	0.012 ppb	0.463 ppb	73.393 %
Concentration per Run 1	6.457 ppb	67.008 %	63.449 %	0.001 ppb	0.460 ppb	73.719 %
Concentration per Run 2	7.101 ppb	67.786 %	65.496 %	0.019 ppb	0.465 ppb	72.429 %
Concentration per Run 3	6.565 ppb	69.656 %	65.685 %	0.017 ppb	0.464 ppb	74.031 %
Concentration RSD	5.1 %	2.0 %	1.9 %	77.0 %	0.6 %	1.2 %

Alpha ICPMSQ2 Data with SRD

3/5/2024 9:03:09 PM

Analysis index:	159	User name	ALPHALAB\a2-icpmsq2	Comment	<Comment>
Analysis label:	WG1891910-10d10 6020TL	Rack	2		
Analysis started at:	3/5/2024 7:46:01 PM	Vial	41		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	78.966 %	81.632 %	0.005 ppb	4,217.384 ppb	405.461 ppb	3.603 ppb	1,384.329 ppb	2,495.913 ppb	71.003 %
Concentration per Run 1	78.849 %	80.148 %	0.006 ppb	4,278.161 ppb	413.193 ppb	5.086 ppb	1,372.260 ppb	2,461.622 ppb	70.348 %
Concentration per Run 2	79.330 %	84.044 %	0.009 ppb	4,037.231 ppb	380.198 ppb	2.879 ppb	1,328.278 ppb	2,381.737 ppb	70.908 %
Concentration per Run 3	78.718 %	80.705 %	-0.001 ppb	4,336.760 ppb	422.993 ppb	2.843 ppb	1,452.450 ppb	2,644.379 ppb	71.753 %
Concentration RSD	0.4 %	2.6 %	108.6 %	3.8 %	5.5 %	35.6 %	4.5 %	5.4 %	1.0 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.095 ppb	0.006 ppb	8.969 ppb	22.332 ppb	0.011 ppb	0.046 ppb	0.054 ppb	0.293 ppb	75.553 %
Concentration per Run 1	0.113 ppb	0.017 ppb	9.463 ppb	22.340 ppb	0.015 ppb	0.020 ppb	0.104 ppb	0.312 ppb	72.305 %
Concentration per Run 2	0.083 ppb	0.031 ppb	8.379 ppb	18.460 ppb	0.003 ppb	0.036 ppb	0.050 ppb	0.312 ppb	78.352 %
Concentration per Run 3	0.088 ppb	-0.029 ppb	9.065 ppb	26.196 ppb	0.014 ppb	0.082 ppb	0.008 ppb	0.255 ppb	76.003 %
Concentration RSD	16.8 %	502.9 %	6.1 %	17.3 %	59.7 %	69.8 %	89.2 %	11.2 %	4.0 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.291 ppb	-0.024 ppb	17.323 ppb	0.146 ppb	75.214 %	0.002 ppb	-0.001 ppb	74.980 %	-0.082 ppb
Concentration per Run 1	0.228 ppb	-0.037 ppb	17.414 ppb	0.142 ppb	73.516 %	0.002 ppb	-0.001 ppb	73.104 %	-0.092 ppb
Concentration per Run 2	0.329 ppb	0.040 ppb	17.031 ppb	0.172 ppb	76.046 %	0.002 ppb	-0.001 ppb	74.965 %	-0.084 ppb
Concentration per Run 3	0.316 ppb	-0.074 ppb	17.525 ppb	0.124 ppb	76.079 %	0.001 ppb	-0.001 ppb	76.871 %	-0.071 ppb
Concentration RSD	18.9 %	244.5 %	1.5 %	16.7 %	2.0 %	42.8 %	0.0 %	2.5 %	12.8 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	1.391 ppb	75.018 %	74.238 %	0.007 ppb	0.011 ppb	72.833 %
Concentration per Run 1	1.269 ppb	72.308 %	70.179 %	-0.002 ppb	0.010 ppb	71.764 %
Concentration per Run 2	1.500 ppb	75.037 %	75.912 %	0.010 ppb	0.012 ppb	73.180 %
Concentration per Run 3	1.406 ppb	77.709 %	76.622 %	0.013 ppb	0.012 ppb	73.555 %
Concentration RSD	8.4 %	3.6 %	4.8 %	115.7 %	7.8 %	1.3 %

Alpha ICPMSQ2 Data with SRD

3/5/2024 9:03:09 PM

Analysis index:	160	User name	ALPHALAB\a2-icpmsq2	Comment	<Comment>
Analysis label:	I2410812-02d50 6020TL	Rack	2		
Analysis started at:	3/5/2024 7:51:31 PM	Vial	45		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	80.202 %	80.612 %	0.021 ppb	149.078 ppb	1,332.461 ppb	234.960 ppb	78.622 ppb	18,246.093 ppb	67.270 %
Concentration per Run 1	79.366 %	79.870 %	0.030 ppb	140.960 ppb	1,315.670 ppb	230.312 ppb	70.082 ppb	17,440.270 ppb	67.741 %
Concentration per Run 2	80.378 %	85.714 %	0.016 ppb	144.729 ppb	1,223.215 ppb	210.690 ppb	72.193 ppb	16,719.293 ppb	66.872 %
Concentration per Run 3	80.864 %	76.252 %	0.016 ppb	161.545 ppb	1,458.498 ppb	263.879 ppb	93.590 ppb	20,578.718 ppb	67.196 %
Concentration RSD	1.0 %	5.9 %	38.4 %	7.4 %	8.9 %	11.4 %	16.5 %	11.2 %	0.7 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.374 ppb	0.314 ppb	161.642 ppb	817.908 ppb	0.681 ppb	0.739 ppb	1.105 ppb	2.016 ppb	80.393 %
Concentration per Run 1	0.305 ppb	0.269 ppb	156.672 ppb	808.738 ppb	0.661 ppb	0.686 ppb	1.163 ppb	1.902 ppb	79.609 %
Concentration per Run 2	0.344 ppb	0.341 ppb	156.524 ppb	794.084 ppb	0.721 ppb	0.862 ppb	1.058 ppb	1.935 ppb	81.211 %
Concentration per Run 3	0.474 ppb	0.334 ppb	171.729 ppb	850.900 ppb	0.662 ppb	0.670 ppb	1.096 ppb	2.210 ppb	80.359 %
Concentration RSD	23.8 %	12.7 %	5.4 %	3.6 %	5.0 %	14.4 %	4.8 %	8.4 %	1.0 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.277 ppb	0.141 ppb	31.650 ppb	0.045 ppb	75.203 %	0.000 ppb	0.009 ppb	77.050 %	-0.075 ppb
Concentration per Run 1	0.322 ppb	0.088 ppb	30.692 ppb	0.062 ppb	73.897 %	0.000 ppb	0.015 ppb	74.497 %	-0.056 ppb
Concentration per Run 2	0.248 ppb	0.229 ppb	30.528 ppb	0.025 ppb	74.523 %	0.001 ppb	0.007 ppb	75.066 %	-0.100 ppb
Concentration per Run 3	0.260 ppb	0.107 ppb	33.728 ppb	0.048 ppb	77.190 %	0.001 ppb	0.006 ppb	81.587 %	-0.069 ppb
Concentration RSD	14.4 %	53.8 %	5.7 %	42.3 %	2.3 %	136.3 %	50.6 %	5.1 %	29.7 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	11.684 ppb	67.310 %	65.978 %	0.010 ppb	0.328 ppb	74.942 %
Concentration per Run 1	11.416 ppb	65.351 %	63.785 %	0.006 ppb	0.325 ppb	74.661 %
Concentration per Run 2	12.317 ppb	66.124 %	65.512 %	0.011 ppb	0.335 ppb	74.375 %
Concentration per Run 3	11.319 ppb	70.456 %	68.637 %	0.015 ppb	0.325 ppb	75.790 %
Concentration RSD	4.7 %	4.1 %	3.7 %	42.8 %	1.7 %	1.0 %

Alpha ICPMSQ2 Data with SRD

3/5/2024 9:03:09 PM

Analysis index:	161	User name	ALPHALAB\a2-icpmsq2	Comment	<Comment>
Analysis label:	CCV	Rack	0		
Analysis started at:	3/5/2024 7:56:00 PM	Vial	9		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	78.728 %	79.963 %	60.564 ppb	5,579.590 ppb	5,647.318 ppb	55.864 ppb	5,563.769 ppb	5,598.737 ppb	75.632 %
Concentration per Run 1	78.630 %	80.705 %	60.447 ppb	5,489.352 ppb	5,549.623 ppb	54.210 ppb	5,561.346 ppb	5,564.624 ppb	75.265 %
Concentration per Run 2	78.676 %	75.696 %	60.488 ppb	5,778.942 ppb	5,873.719 ppb	60.028 ppb	5,581.653 ppb	5,709.791 ppb	76.121 %
Concentration per Run 3	78.877 %	83.488 %	60.756 ppb	5,470.477 ppb	5,518.611 ppb	53.353 ppb	5,548.309 ppb	5,521.797 ppb	75.509 %
Recovery Percentage 1			100.940 %	92.993 %	94.122 %	93.106 %	92.729 %	93.312 %	
Concentration RSD	0.2 %	4.9 %	0.3 %	3.1 %	3.5 %	6.5 %	0.3 %	1.8 %	0.6 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	57.696 ppb	57.009 ppb	56.762 ppb	5,740.697 ppb	57.119 ppb	59.375 ppb	57.742 ppb	59.928 ppb	79.155 %
Concentration per Run 1	58.273 ppb	58.116 ppb	59.442 ppb	5,896.828 ppb	57.459 ppb	60.593 ppb	59.542 ppb	61.341 ppb	76.261 %
Concentration per Run 2	56.478 ppb	55.587 ppb	55.138 ppb	5,509.232 ppb	57.301 ppb	57.557 ppb	56.716 ppb	58.561 ppb	81.262 %
Concentration per Run 3	58.335 ppb	57.323 ppb	55.705 ppb	5,816.031 ppb	56.597 ppb	59.973 ppb	56.968 ppb	59.882 ppb	79.941 %
Recovery Percentage 1	96.160 %	95.014 %	94.603 %	95.678 %	95.198 %	98.958 %	96.237 %	99.880 %	
Concentration RSD	1.8 %	2.3 %	4.1 %	3.6 %	0.8 %	2.7 %	2.7 %	2.3 %	3.3 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	57.921 ppb	60.196 ppb	58.228 ppb	58.745 ppb	74.933 %	59.354 ppb	59.278 ppb	75.254 %	55.645 ppb
Concentration per Run 1	59.189 ppb	58.691 ppb	57.633 ppb	59.825 ppb	73.503 %	60.461 ppb	58.855 ppb	72.986 %	55.367 ppb
Concentration per Run 2	56.090 ppb	60.430 ppb	57.373 ppb	57.300 ppb	74.158 %	60.164 ppb	61.214 ppb	72.442 %	56.782 ppb
Concentration per Run 3	58.483 ppb	61.467 ppb	59.677 ppb	59.110 ppb	77.138 %	57.437 ppb	57.764 ppb	80.333 %	54.787 ppb
Recovery Percentage 1	96.535 %	100.327 %	97.046 %	97.908 %		98.924 %	98.796 %		92.742 %
Concentration RSD	2.8 %	2.3 %	2.2 %	2.2 %	2.6 %	2.8 %	3.0 %	5.9 %	1.8 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	57.712 ppb	71.946 %	70.627 %	65.660 ppb	56.537 ppb	72.787 %
Concentration per Run 1	57.094 ppb	70.437 %	68.640 %	64.358 ppb	56.677 ppb	72.880 %
Concentration per Run 2	59.434 ppb	72.445 %	71.125 %	66.707 ppb	55.881 ppb	71.387 %
Concentration per Run 3	56.607 ppb	72.956 %	72.116 %	65.914 ppb	57.053 ppb	74.095 %
Recovery Percentage 1	96.186 %			109.433 %	94.228 %	
Concentration RSD	2.6 %	1.9 %	2.5 %	1.8 %	1.1 %	1.9 %

Alpha ICPMSQ2 Data with SRD

3/5/2024 9:03:09 PM

Analysis index: 162 User name ALPHALAB\a2-icpmsq2 Comment <Comment>
Analysis label: CCB Rack 0
Analysis started at: 3/5/2024 8:00:31 PM Vial 10

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	74.876 %	80.983 %	0.004 ppb	-4.989 ppb	0.441 ppb	-0.915 ppb	-1.392 ppb	8.858 ppb	68.997 %
Concentration per Run 1	74.331 %	76.809 %	0.006 ppb	-4.889 ppb	1.788 ppb	-0.621 ppb	-5.004 ppb	19.645 ppb	67.784 %
Concentration per Run 2	75.366 %	86.271 %	0.005 ppb	-5.240 ppb	-1.001 ppb	-0.935 ppb	6.432 ppb	1.727 ppb	70.068 %
Concentration per Run 3	74.930 %	79.870 %	0.000 ppb	-4.838 ppb	0.536 ppb	-1.188 ppb	-5.603 ppb	5.202 ppb	69.140 %
Recovery Percentage 1			0.795 %	-4.989 %	0.630 %	-9.147 %	-1.392 %	8.858 %	
Concentration RSD	0.7 %	6.0 %	82.2 %	4.4 %	316.8 %	31.1 %	487.3 %	107.3 %	1.7 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.024 ppb	-0.021 ppb	0.029 ppb	7.202 ppb	-0.001 ppb	-0.030 ppb	0.021 ppb	0.332 ppb	69.133 %
Concentration per Run 1	0.015 ppb	-0.008 ppb	0.119 ppb	7.269 ppb	-0.006 ppb	0.014 ppb	0.000 ppb	0.312 ppb	63.506 %
Concentration per Run 2	-0.045 ppb	-0.035 ppb	-0.015 ppb	8.998 ppb	0.004 ppb	-0.029 ppb	0.011 ppb	0.333 ppb	71.048 %
Concentration per Run 3	-0.043 ppb	-0.021 ppb	-0.018 ppb	5.339 ppb	-0.001 ppb	-0.074 ppb	0.053 ppb	0.352 ppb	72.844 %
Recovery Percentage 1	-0.487 %	-2.119 %	2.862 %	14.404 %	-0.197 %	-1.484 %	2.136 %	6.649 %	
Concentration RSD	139.6 %	63.3 %	272.3 %	25.4 %	526.3 %	148.4 %	130.1 %	6.1 %	7.2 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.085 ppb	0.060 ppb	0.009 ppb	0.148 ppb	71.399 %	0.005 ppb	0.000 ppb	71.343 %	0.049 ppb
Concentration per Run 1	0.058 ppb	0.055 ppb	0.006 ppb	0.161 ppb	69.111 %	0.008 ppb	-0.001 ppb	68.400 %	0.046 ppb
Concentration per Run 2	0.133 ppb	0.043 ppb	0.014 ppb	0.170 ppb	70.975 %	0.006 ppb	0.003 ppb	71.768 %	0.052 ppb
Concentration per Run 3	0.063 ppb	0.081 ppb	0.007 ppb	0.113 ppb	74.111 %	0.002 ppb	-0.001 ppb	73.861 %	0.048 ppb
Recovery Percentage 1	16.916 %	1.198 %	0.090 %	7.387 %		1.356 %	0.219 %		1.222 %
Concentration RSD	49.7 %	32.7 %	47.3 %	20.8 %	3.5 %	53.4 %	546.4 %	3.9 %	6.1 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.004 ppb	71.578 %	72.780 %	0.236 ppb	0.012 ppb	68.615 %
Concentration per Run 1	0.011 ppb	68.137 %	70.030 %	0.175 ppb	0.013 ppb	67.558 %
Concentration per Run 2	0.009 ppb	73.567 %	72.912 %	0.304 ppb	0.012 ppb	67.672 %
Concentration per Run 3	-0.009 ppb	73.029 %	75.398 %	0.228 ppb	0.009 ppb	70.616 %
Recovery Percentage 1	0.753 %			23.574 %	1.153 %	
Concentration RSD	290.2 %	4.2 %	3.7 %	27.4 %	16.8 %	2.5 %

Alpha ICPMSQ2 Data with SRD

3/5/2024 9:03:09 PM

Analysis index: 163
Analysis label: I2410812-03d10 6020TL
Analysis started at: 3/5/2024 8:06:55 PM
User name ALPHALAB\a2-icpmsq2
Rack 2
Vial 46
Comment <Comment>

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	77.194 %	82.375 %	0.123 ppb	1,083.539 ppb	5,340.585 ppb	1,056.781 ppb	633.020 ppb	20,408.075 ppb	64.685 %
Concentration per Run 1	76.519 %	84.044 %	0.133 ppb	1,020.622 ppb	5,050.806 ppb	1,004.954 ppb	624.431 ppb	19,503.637 ppb	63.532 %
Concentration per Run 2	77.893 %	79.313 %	0.121 ppb	1,150.618 ppb	5,608.269 ppb	1,128.073 ppb	664.929 ppb	21,024.730 ppb	65.604 %
Concentration per Run 3	77.171 %	83.766 %	0.116 ppb	1,079.377 ppb	5,362.681 ppb	1,037.316 ppb	609.700 ppb	20,695.858 ppb	64.918 %
Concentration RSD	0.9 %	3.2 %	7.0 %	6.0 %	5.2 %	6.0 %	4.5 %	3.9 %	1.6 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	2.497 ppb	2.327 ppb	264.426 ppb	5,963.930 ppb	2.344 ppb	5.281 ppb	25.352 ppb	28.635 ppb	76.382 %
Concentration per Run 1	2.445 ppb	2.102 ppb	256.749 ppb	5,898.954 ppb	2.215 ppb	4.894 ppb	25.767 ppb	29.005 ppb	75.957 %
Concentration per Run 2	2.446 ppb	2.557 ppb	271.733 ppb	6,088.007 ppb	2.484 ppb	6.032 ppb	25.906 ppb	28.909 ppb	76.587 %
Concentration per Run 3	2.601 ppb	2.322 ppb	264.796 ppb	5,904.828 ppb	2.333 ppb	4.918 ppb	24.382 ppb	27.990 ppb	76.601 %
Concentration RSD	3.6 %	9.8 %	2.8 %	1.8 %	5.8 %	12.3 %	3.3 %	2.0 %	0.5 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	3.033 ppb	0.303 ppb	100.122 ppb	0.193 ppb	73.966 %	0.049 ppb	0.065 ppb	75.415 %	0.219 ppb
Concentration per Run 1	3.099 ppb	0.264 ppb	97.146 ppb	0.141 ppb	72.261 %	0.053 ppb	0.079 ppb	70.133 %	0.213 ppb
Concentration per Run 2	2.999 ppb	0.293 ppb	102.493 ppb	0.211 ppb	75.624 %	0.047 ppb	0.059 ppb	80.298 %	0.195 ppb
Concentration per Run 3	3.001 ppb	0.352 ppb	100.728 ppb	0.227 ppb	74.012 %	0.047 ppb	0.058 ppb	75.813 %	0.248 ppb
Concentration RSD	1.9 %	14.8 %	2.7 %	23.6 %	2.3 %	6.6 %	17.5 %	6.8 %	12.3 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	28.158 ppb	63.160 %	61.806 %	0.129 ppb	37.771 ppb	74.900 %
Concentration per Run 1	28.717 ppb	60.966 %	58.121 %	0.110 ppb	37.481 ppb	73.343 %
Concentration per Run 2	27.164 ppb	64.746 %	64.348 %	0.147 ppb	37.636 ppb	76.887 %
Concentration per Run 3	28.592 ppb	63.769 %	62.948 %	0.131 ppb	38.197 ppb	74.470 %
Concentration RSD	3.1 %	3.1 %	5.3 %	14.2 %	1.0 %	2.4 %

Alpha ICPMSQ2 Data with SRD

3/5/2024 9:03:09 PM

Analysis index: 164
Analysis label: I2410812-04d10 6020TL
Analysis started at: 3/5/2024 8:11:24 PM
User name ALPHALAB\a2-icpmsq2
Rack 2
Vial 47
Comment <Comment>

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	74.896 %	77.736 %	0.132 ppb	1,502.799 ppb	5,059.896 ppb	1,343.558 ppb	511.150 ppb	22,099.114 ppb	58.970 %
Concentration per Run 1	74.117 %	80.705 %	0.118 ppb	1,432.971 ppb	4,788.328 ppb	1,265.182 ppb	464.500 ppb	21,178.276 ppb	58.374 %
Concentration per Run 2	75.174 %	72.078 %	0.143 ppb	1,568.140 ppb	5,241.262 ppb	1,354.590 ppb	533.162 ppb	22,148.339 ppb	59.336 %
Concentration per Run 3	75.398 %	80.427 %	0.136 ppb	1,507.287 ppb	5,150.100 ppb	1,410.902 ppb	535.786 ppb	22,970.729 ppb	59.200 %
Concentration RSD	0.9 %	6.3 %	9.7 %	4.5 %	4.7 %	5.5 %	7.9 %	4.1 %	0.9 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	3.065 ppb	3.389 ppb	159.281 ppb	7,050.147 ppb	2.004 ppb	5.202 ppb	10.619 ppb	75.454 ppb	76.856 %
Concentration per Run 1	3.012 ppb	3.328 ppb	159.043 ppb	6,905.706 ppb	2.066 ppb	4.999 ppb	11.119 ppb	73.687 ppb	75.869 %
Concentration per Run 2	3.334 ppb	3.487 ppb	157.330 ppb	7,304.364 ppb	2.004 ppb	5.209 ppb	11.289 ppb	77.655 ppb	74.372 %
Concentration per Run 3	2.848 ppb	3.352 ppb	161.469 ppb	6,940.371 ppb	1.944 ppb	5.399 ppb	9.450 ppb	75.021 ppb	80.327 %
Concentration RSD	8.1 %	2.5 %	1.3 %	3.1 %	3.0 %	3.8 %	9.6 %	2.7 %	4.0 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	2.433 ppb	0.483 ppb	80.461 ppb	0.338 ppb	72.113 %	0.035 ppb	0.143 ppb	72.958 %	0.065 ppb
Concentration per Run 1	2.286 ppb	0.577 ppb	78.322 ppb	0.426 ppb	71.863 %	0.038 ppb	0.128 ppb	70.976 %	0.031 ppb
Concentration per Run 2	2.557 ppb	0.540 ppb	80.192 ppb	0.246 ppb	72.124 %	0.033 ppb	0.149 ppb	73.879 %	0.042 ppb
Concentration per Run 3	2.456 ppb	0.331 ppb	82.868 ppb	0.341 ppb	72.350 %	0.033 ppb	0.153 ppb	74.020 %	0.122 ppb
Concentration RSD	5.6 %	27.4 %	2.8 %	26.7 %	0.3 %	9.6 %	9.2 %	2.4 %	76.4 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	34.581 ppb	61.018 %	58.850 %	0.075 ppb	22.758 ppb	70.990 %
Concentration per Run 1	33.602 ppb	60.905 %	57.995 %	0.054 ppb	22.143 ppb	71.604 %
Concentration per Run 2	34.753 ppb	60.517 %	58.033 %	0.090 ppb	22.833 ppb	71.081 %
Concentration per Run 3	35.388 ppb	61.632 %	60.521 %	0.082 ppb	23.299 ppb	70.286 %
Concentration RSD	2.6 %	0.9 %	2.5 %	25.2 %	2.6 %	0.9 %

Alpha ICPMSQ2 Data with SRD

3/5/2024 9:03:09 PM

Analysis index: 165
Analysis label: I2410812-06d10 6020TL
Analysis started at: 3/5/2024 8:15:53 PM
User name ALPHALAB\a2-icpmsq2
Rack 2
Vial 48
Comment <Comment>

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	75.963 %	81.354 %	0.063 ppb	1,823.635 ppb	4,239.318 ppb	648.446 ppb	537.962 ppb	18,046.355 ppb	61.685 %
Concentration per Run 1	76.017 %	78.200 %	0.069 ppb	1,809.269 ppb	4,162.751 ppb	646.624 ppb	549.362 ppb	17,830.456 ppb	62.041 %
Concentration per Run 2	75.778 %	77.365 %	0.064 ppb	1,878.408 ppb	4,346.397 ppb	658.212 ppb	574.832 ppb	18,784.709 ppb	60.973 %
Concentration per Run 3	76.094 %	88.497 %	0.057 ppb	1,783.226 ppb	4,208.805 ppb	640.502 ppb	489.692 ppb	17,523.902 ppb	62.041 %
Concentration RSD	0.2 %	7.6 %	9.5 %	2.7 %	2.3 %	1.4 %	8.1 %	3.6 %	1.0 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	1.293 ppb	1.568 ppb	107.163 ppb	3,174.204 ppb	0.923 ppb	2.537 ppb	5.537 ppb	28.587 ppb	77.744 %
Concentration per Run 1	1.308 ppb	1.551 ppb	108.693 ppb	3,284.472 ppb	0.886 ppb	2.508 ppb	5.604 ppb	28.787 ppb	74.460 %
Concentration per Run 2	1.375 ppb	1.522 ppb	108.398 ppb	3,246.744 ppb	0.985 ppb	2.578 ppb	5.791 ppb	29.730 ppb	74.207 %
Concentration per Run 3	1.197 ppb	1.631 ppb	104.398 ppb	2,991.396 ppb	0.899 ppb	2.525 ppb	5.216 ppb	27.244 ppb	84.564 %
Concentration RSD	6.9 %	3.6 %	2.2 %	5.0 %	5.8 %	1.4 %	5.3 %	4.4 %	7.6 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	1.070 ppb	0.091 ppb	83.105 ppb	0.167 ppb	71.696 %	0.014 ppb	0.053 ppb	73.500 %	0.054 ppb
Concentration per Run 1	1.034 ppb	0.094 ppb	81.601 ppb	0.198 ppb	70.169 %	0.012 ppb	0.041 ppb	71.460 %	0.073 ppb
Concentration per Run 2	1.136 ppb	0.053 ppb	83.452 ppb	0.118 ppb	71.051 %	0.014 ppb	0.069 ppb	72.876 %	0.012 ppb
Concentration per Run 3	1.040 ppb	0.124 ppb	84.263 ppb	0.184 ppb	73.868 %	0.016 ppb	0.050 ppb	76.163 %	0.079 ppb
Concentration RSD	5.3 %	39.2 %	1.6 %	25.7 %	2.7 %	15.5 %	26.8 %	3.3 %	68.1 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	22.006 ppb	62.578 %	60.457 %	0.047 ppb	11.608 ppb	70.397 %
Concentration per Run 1	21.151 ppb	60.210 %	56.701 %	0.032 ppb	11.266 ppb	70.536 %
Concentration per Run 2	22.163 ppb	62.655 %	61.005 %	0.065 ppb	11.816 ppb	69.635 %
Concentration per Run 3	22.704 ppb	64.871 %	63.665 %	0.044 ppb	11.741 ppb	71.019 %
Concentration RSD	3.6 %	3.7 %	5.8 %	35.1 %	2.6 %	1.0 %

Alpha ICPMSQ2 Data with SRD

3/5/2024 9:03:09 PM

Analysis index:	166	User name	ALPHALAB\a2-icpmsq2	Comment	<Comment>
Analysis label:	CCV	Rack	0		
Analysis started at:	3/5/2024 8:20:27 PM	Vial	9		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	73.359 %	74.211 %	60.179 ppb	5,656.065 ppb	5,728.436 ppb	57.217 ppb	5,525.326 ppb	5,578.997 ppb	63.078 %
Concentration per Run 1	73.305 %	68.460 %	60.487 ppb	5,872.091 ppb	5,969.662 ppb	61.683 ppb	5,658.185 ppb	5,570.874 ppb	63.201 %
Concentration per Run 2	75.125 %	74.582 %	59.699 ppb	5,535.720 ppb	5,503.066 ppb	54.528 ppb	5,375.652 ppb	5,421.529 ppb	65.498 %
Concentration per Run 3	71.645 %	79.592 %	60.351 ppb	5,560.383 ppb	5,712.580 ppb	55.440 ppb	5,542.142 ppb	5,744.588 ppb	60.535 %
Recovery Percentage 1			100.298 %	94.268 %	95.474 %	95.362 %	92.089 %	92.983 %	
Concentration RSD	2.4 %	7.5 %	0.7 %	3.3 %	4.1 %	6.8 %	2.6 %	2.9 %	3.9 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	58.035 ppb	57.553 ppb	57.868 ppb	5,773.835 ppb	58.380 ppb	58.485 ppb	58.349 ppb	59.717 ppb	71.557 %
Concentration per Run 1	60.860 ppb	60.856 ppb	59.520 ppb	5,977.552 ppb	60.435 ppb	62.715 ppb	61.438 ppb	61.865 ppb	66.965 %
Concentration per Run 2	56.470 ppb	55.816 ppb	56.674 ppb	5,641.483 ppb	57.440 ppb	57.246 ppb	56.880 ppb	59.540 ppb	71.163 %
Concentration per Run 3	56.774 ppb	55.986 ppb	57.409 ppb	5,702.470 ppb	57.264 ppb	55.493 ppb	56.729 ppb	57.744 ppb	76.543 %
Recovery Percentage 1	96.725 %	95.921 %	96.446 %	96.231 %	97.300 %	97.475 %	97.249 %	99.528 %	
Concentration RSD	4.2 %	5.0 %	2.6 %	3.1 %	3.1 %	6.4 %	4.6 %	3.5 %	6.7 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	59.257 ppb	61.876 ppb	59.695 ppb	58.314 ppb	67.728 %	59.037 ppb	59.316 ppb	69.218 %	56.295 ppb
Concentration per Run 1	60.731 ppb	61.040 ppb	60.010 ppb	58.589 ppb	63.960 %	60.937 ppb	60.398 ppb	64.186 %	58.026 ppb
Concentration per Run 2	58.468 ppb	58.940 ppb	57.948 ppb	58.130 ppb	67.778 %	58.652 ppb	58.795 ppb	69.310 %	55.274 ppb
Concentration per Run 3	58.571 ppb	65.647 ppb	61.129 ppb	58.223 ppb	71.445 %	57.522 ppb	58.754 ppb	74.158 %	55.585 ppb
Recovery Percentage 1	98.761 %	103.126 %	99.492 %	97.189 %		98.394 %	98.860 %		93.825 %
Concentration RSD	2.2 %	5.5 %	2.7 %	0.4 %	5.5 %	2.9 %	1.6 %	7.2 %	2.7 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	58.048 ppb	64.913 %	64.435 %	66.406 ppb	68.038 ppb	66.658 %
Concentration per Run 1	58.971 ppb	61.813 %	59.829 %	65.809 ppb	66.458 ppb	65.645 %
Concentration per Run 2	55.091 ppb	64.773 %	65.041 %	67.593 ppb	69.988 ppb	64.945 %
Concentration per Run 3	60.081 ppb	68.152 %	68.435 %	65.816 ppb	67.669 ppb	69.384 %
Recovery Percentage 1	96.746 %			110.676 %	113.397 %	
Concentration RSD	4.5 %	4.9 %	6.7 %	1.5 %	2.6 %	3.6 %

Alpha ICPMSQ2 Data with SRD

3/5/2024 9:03:09 PM

Analysis index: 167 User name ALPHALAB\a2-icpmsq2 Comment <Comment>
Analysis label: CCB Rack 0
Analysis started at: 3/5/2024 8:24:58 PM Vial 10

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	69.971 %	69.944 %	0.005 ppb	1.873 ppb	-0.459 ppb	-0.747 ppb	10.879 ppb	14.944 ppb	60.399 %
Concentration per Run 1	68.837 %	62.616 %	0.004 ppb	2.741 ppb	-0.383 ppb	-0.374 ppb	22.924 ppb	28.514 ppb	58.598 %
Concentration per Run 2	70.197 %	69.573 %	0.007 ppb	2.198 ppb	-0.455 ppb	-0.837 ppb	8.424 ppb	-1.766 ppb	60.920 %
Concentration per Run 3	70.879 %	77.644 %	0.004 ppb	0.680 ppb	-0.538 ppb	-1.029 ppb	1.288 ppb	18.082 ppb	61.679 %
Recovery Percentage 1			1.003 %	1.873 %	-0.655 %	-7.466 %	10.879 %	14.944 %	
Concentration RSD	1.5 %	10.8 %	36.9 %	57.0 %	17.0 %	45.1 %	101.3 %	102.9 %	2.7 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.009 ppb	-0.015 ppb	0.018 ppb	6.456 ppb	0.005 ppb	0.000 ppb	0.032 ppb	0.284 ppb	66.354 %
Concentration per Run 1	0.029 ppb	-0.032 ppb	-0.007 ppb	6.078 ppb	-0.007 ppb	0.016 ppb	0.043 ppb	0.331 ppb	64.643 %
Concentration per Run 2	-0.040 ppb	0.029 ppb	0.078 ppb	5.881 ppb	0.017 ppb	0.031 ppb	0.042 ppb	0.219 ppb	64.868 %
Concentration per Run 3	0.039 ppb	-0.042 ppb	-0.016 ppb	7.408 ppb	0.004 ppb	-0.049 ppb	0.012 ppb	0.300 ppb	69.551 %
Recovery Percentage 1	0.184 %	-1.520 %	1.831 %	12.911 %	1.006 %	-0.017 %	3.222 %	5.672 %	
Concentration RSD	468.7 %	251.7 %	282.6 %	12.9 %	235.9 %	12,362.1 %	55.2 %	20.4 %	4.2 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.043 ppb	0.154 ppb	0.011 ppb	0.094 ppb	66.057 %	0.006 ppb	0.006 ppb	67.520 %	0.037 ppb
Concentration per Run 1	0.022 ppb	-0.007 ppb	0.013 ppb	0.059 ppb	64.207 %	0.007 ppb	-0.001 ppb	64.381 %	0.025 ppb
Concentration per Run 2	0.083 ppb	0.399 ppb	0.012 ppb	0.085 ppb	67.081 %	0.008 ppb	0.017 ppb	67.205 %	0.037 ppb
Concentration per Run 3	0.022 ppb	0.072 ppb	0.009 ppb	0.139 ppb	66.885 %	0.003 ppb	0.003 ppb	70.972 %	0.050 ppb
Recovery Percentage 1	8.505 %	3.090 %	0.113 %	4.717 %		1.473 %	3.184 %		0.929 %
Concentration RSD	82.8 %	139.3 %	19.3 %	43.6 %	2.4 %	50.2 %	144.8 %	4.9 %	34.5 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.018 ppb	66.758 %	67.447 %	0.317 ppb	0.016 ppb	64.418 %
Concentration per Run 1	0.033 ppb	63.886 %	63.819 %	0.220 ppb	0.018 ppb	63.701 %
Concentration per Run 2	0.012 ppb	66.429 %	66.310 %	0.407 ppb	0.019 ppb	63.746 %
Concentration per Run 3	0.010 ppb	69.961 %	72.211 %	0.325 ppb	0.011 ppb	65.805 %
Recovery Percentage 1	3.692 %			31.729 %	1.595 %	
Concentration RSD	70.3 %	4.6 %	6.4 %	29.5 %	27.4 %	1.9 %

Alpha ICPMSQ2 Data with SRD

3/5/2024 9:03:09 PM

Analysis index:	168	User name	ALPHALAB\a2-icpmsq2	Comment	<Comment>
Analysis label:	CCV	Rack	0		
Analysis started at:	3/5/2024 8:30:19 PM	Vial	9		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	77.191 %	83.766 %	60.627 ppb	5,399.567 ppb	5,605.489 ppb	56.625 ppb	5,561.546 ppb	5,678.553 ppb	71.348 %
Concentration per Run 1	77.089 %	79.035 %	60.769 ppb	5,486.366 ppb	5,597.149 ppb	58.633 ppb	5,629.721 ppb	5,617.527 ppb	70.414 %
Concentration per Run 2	77.149 %	82.375 %	60.529 ppb	5,672.582 ppb	5,908.295 ppb	62.256 ppb	5,923.618 ppb	6,172.595 ppb	71.565 %
Concentration per Run 3	77.334 %	89.889 %	60.583 ppb	5,039.752 ppb	5,311.021 ppb	48.985 ppb	5,131.299 ppb	5,245.538 ppb	72.064 %
Recovery Percentage 1			101.045 %	89.993 %	93.425 %	94.374 %	92.692 %	94.643 %	
Concentration RSD	0.2 %	6.6 %	0.2 %	6.0 %	5.3 %	12.1 %	7.2 %	8.2 %	1.2 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	57.758 ppb	57.267 ppb	57.788 ppb	5,714.288 ppb	58.601 ppb	60.980 ppb	59.584 ppb	60.521 ppb	75.647 %
Concentration per Run 1	57.477 ppb	58.543 ppb	56.843 ppb	5,750.444 ppb	60.859 ppb	61.807 ppb	61.667 ppb	60.024 ppb	73.740 %
Concentration per Run 2	61.417 ppb	60.184 ppb	62.685 ppb	6,085.593 ppb	60.605 ppb	63.119 ppb	61.322 ppb	63.929 ppb	73.681 %
Concentration per Run 3	54.381 ppb	53.075 ppb	53.835 ppb	5,306.827 ppb	54.338 ppb	58.012 ppb	55.764 ppb	57.610 ppb	79.519 %
Recovery Percentage 1	96.264 %	95.445 %	96.313 %	95.238 %	97.668 %	101.633 %	99.307 %	100.868 %	
Concentration RSD	6.1 %	6.5 %	7.8 %	6.8 %	6.3 %	4.3 %	5.6 %	5.3 %	4.4 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	59.912 ppb	63.782 ppb	60.659 ppb	60.260 ppb	73.636 %	58.279 ppb	58.922 ppb	77.408 %	54.470 ppb
Concentration per Run 1	60.786 ppb	61.237 ppb	59.203 ppb	62.129 ppb	71.584 %	59.203 ppb	59.150 ppb	74.288 %	54.455 ppb
Concentration per Run 2	63.518 ppb	72.469 ppb	64.946 ppb	60.757 ppb	75.017 %	57.690 ppb	58.454 ppb	80.730 %	54.023 ppb
Concentration per Run 3	55.432 ppb	57.640 ppb	57.829 ppb	57.894 ppb	74.308 %	57.942 ppb	59.162 ppb	77.207 %	54.933 ppb
Recovery Percentage 1	99.853 %	106.303 %	101.099 %	100.434 %		97.131 %	98.203 %		90.784 %
Concentration RSD	6.9 %	12.1 %	6.2 %	3.6 %	2.5 %	1.4 %	0.7 %	4.2 %	0.8 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	56.322 ppb	71.265 %	70.046 %	65.212 ppb	67.063 ppb	73.673 %
Concentration per Run 1	55.385 ppb	68.134 %	65.831 %	64.390 ppb	65.670 ppb	72.862 %
Concentration per Run 2	56.978 ppb	73.301 %	74.386 %	64.606 ppb	67.485 ppb	74.632 %
Concentration per Run 3	56.603 ppb	72.358 %	69.920 %	66.641 ppb	68.034 ppb	73.524 %
Recovery Percentage 1	93.870 %			108.687 %	111.771 %	
Concentration RSD	1.5 %	3.9 %	6.1 %	1.9 %	1.8 %	1.2 %

Alpha ICPMSQ2 Data with SRD

3/5/2024 9:03:09 PM

Analysis index: 169
Analysis label: CCB
Analysis started at: 3/5/2024 8:34:50 PM
User name ALPHALAB\a2-icpmsq2
Rack 0
Vial 10
Comment <Comment>

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	73.375 %	71.985 %	0.005 ppb	-1.778 ppb	-0.776 ppb	-0.726 ppb	12.122 ppb	6.739 ppb	67.015 %
Concentration per Run 1	73.145 %	72.913 %	0.010 ppb	-3.477 ppb	-0.919 ppb	-1.002 ppb	12.625 ppb	-2.047 ppb	65.708 %
Concentration per Run 2	73.571 %	71.799 %	0.001 ppb	0.763 ppb	-0.916 ppb	-0.183 ppb	11.711 ppb	12.578 ppb	67.164 %
Concentration per Run 3	73.408 %	71.243 %	0.003 ppb	-2.619 ppb	-0.492 ppb	-0.993 ppb	12.032 ppb	9.686 ppb	68.172 %
Recovery Percentage 1			0.976 %	-1.778 %	-1.108 %	-7.261 %	12.122 %	6.739 %	
Concentration RSD	0.3 %	1.2 %	88.8 %	126.1 %	31.7 %	64.8 %	3.8 %	114.9 %	1.8 %

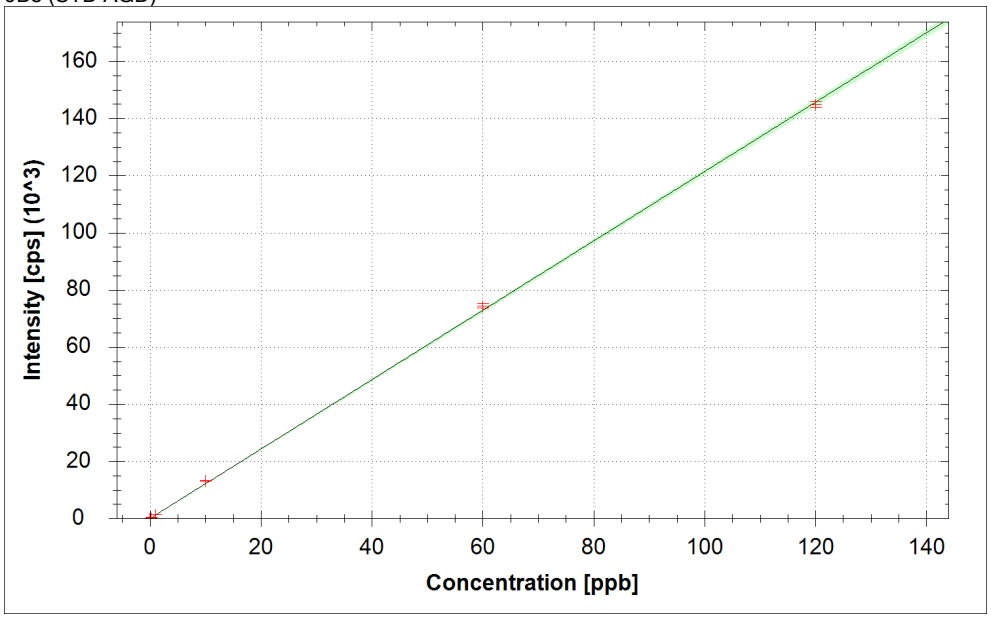
Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.021 ppb	-0.017 ppb	-0.043 ppb	5.700 ppb	0.004 ppb	0.055 ppb	0.063 ppb	0.363 ppb	71.458 %
Concentration per Run 1	-0.021 ppb	-0.025 ppb	0.011 ppb	3.344 ppb	0.010 ppb	-0.049 ppb	0.120 ppb	0.401 ppb	70.794 %
Concentration per Run 2	-0.042 ppb	-0.019 ppb	-0.070 ppb	8.893 ppb	-0.001 ppb	0.027 ppb	-0.001 ppb	0.449 ppb	71.932 %
Concentration per Run 3	-0.001 ppb	-0.008 ppb	-0.070 ppb	4.861 ppb	0.004 ppb	0.185 ppb	0.071 ppb	0.239 ppb	71.647 %
Recovery Percentage 1	-0.429 %	-1.736 %	-4.285 %	11.399 %	0.882 %	2.730 %	6.347 %	7.260 %	
Concentration RSD	95.5 %	50.6 %	109.1 %	50.3 %	124.9 %	218.3 %	96.3 %	30.4 %	0.8 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.012 ppb	0.120 ppb	0.008 ppb	0.145 ppb	69.020 %	0.003 ppb	-0.001 ppb	71.443 %	0.042 ppb
Concentration per Run 1	-0.028 ppb	0.029 ppb	-0.001 ppb	0.169 ppb	65.503 %	0.005 ppb	-0.001 ppb	68.359 %	0.024 ppb
Concentration per Run 2	0.054 ppb	0.263 ppb	0.011 ppb	0.106 ppb	70.465 %	0.000 ppb	-0.001 ppb	73.116 %	0.050 ppb
Concentration per Run 3	0.008 ppb	0.066 ppb	0.015 ppb	0.159 ppb	71.092 %	0.004 ppb	-0.001 ppb	72.855 %	0.051 ppb
Recovery Percentage 1	2.331 %	2.391 %	0.082 %	7.232 %		0.732 %	-0.472 %		1.041 %
Concentration RSD	351.2 %	105.2 %	104.1 %	23.2 %	4.4 %	98.3 %	0.0 %	3.7 %	36.5 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.022 ppb	69.339 %	71.342 %	0.343 ppb	0.011 ppb	67.148 %
Concentration per Run 1	0.012 ppb	65.791 %	67.274 %	0.247 ppb	0.012 ppb	64.964 %
Concentration per Run 2	0.027 ppb	70.856 %	73.475 %	0.413 ppb	0.013 ppb	67.817 %
Concentration per Run 3	0.027 ppb	71.370 %	73.277 %	0.369 ppb	0.009 ppb	68.663 %
Recovery Percentage 1	4.370 %			34.312 %	1.133 %	
Concentration RSD	39.7 %	4.4 %	4.9 %	25.0 %	15.8 %	2.9 %

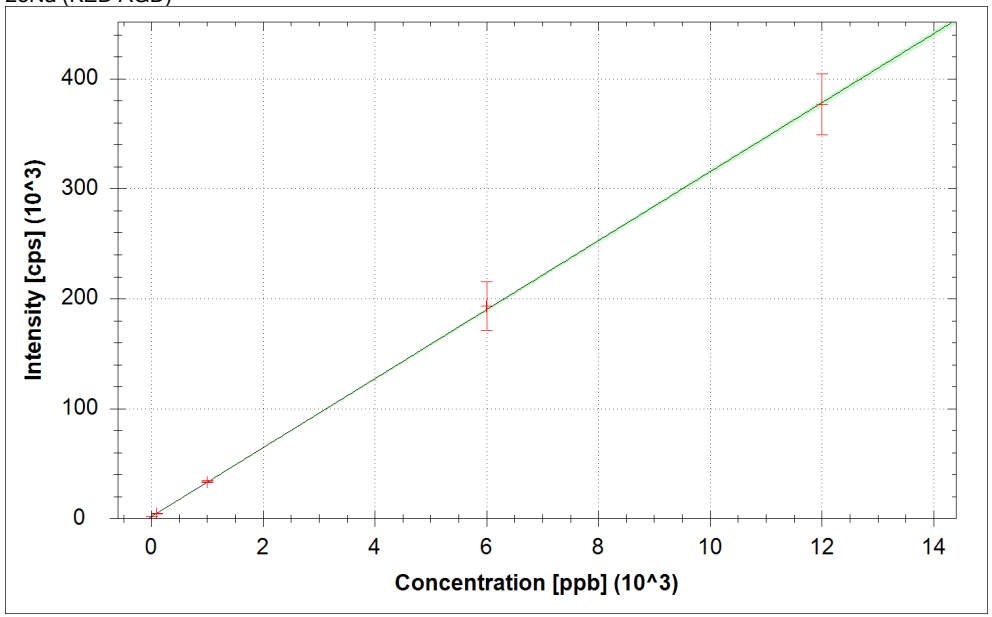
Calibration Curves:

9Be (STD AGD)



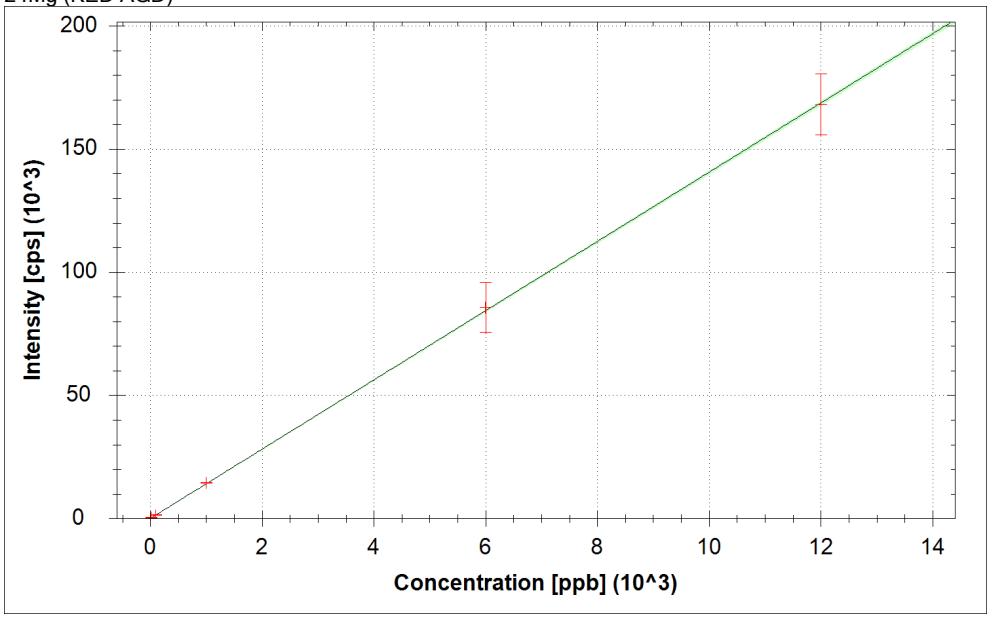
f(x) = 1213.5810*x + 13.2060
R² = 0.9998
BEC = 0.011 ppb
LoD = 0.0140 ppb

23Na (KED AGD)



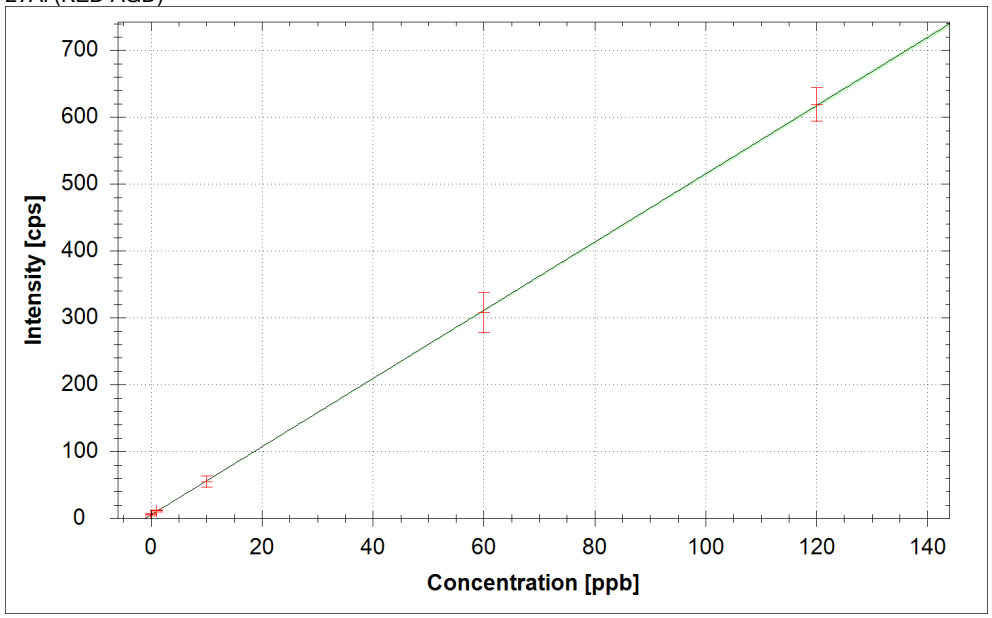
f(x) = 31.3751*x + 1602.0128
R² = 0.9999
BEC = 51.060 ppb
LoD = 17.1512 ppb

24Mg (KED AGD)



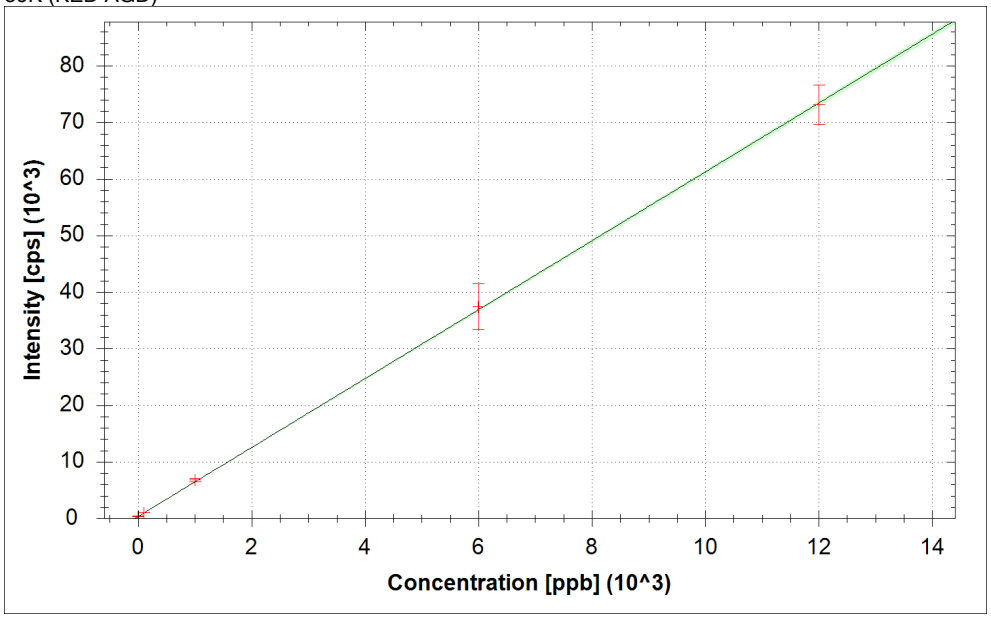
f(x) = 14.0514*x + 25.6326
R² = 0.9999
BEC = 1.824 ppb
LoD = 3.6370 ppb

27Al (KED AGD)



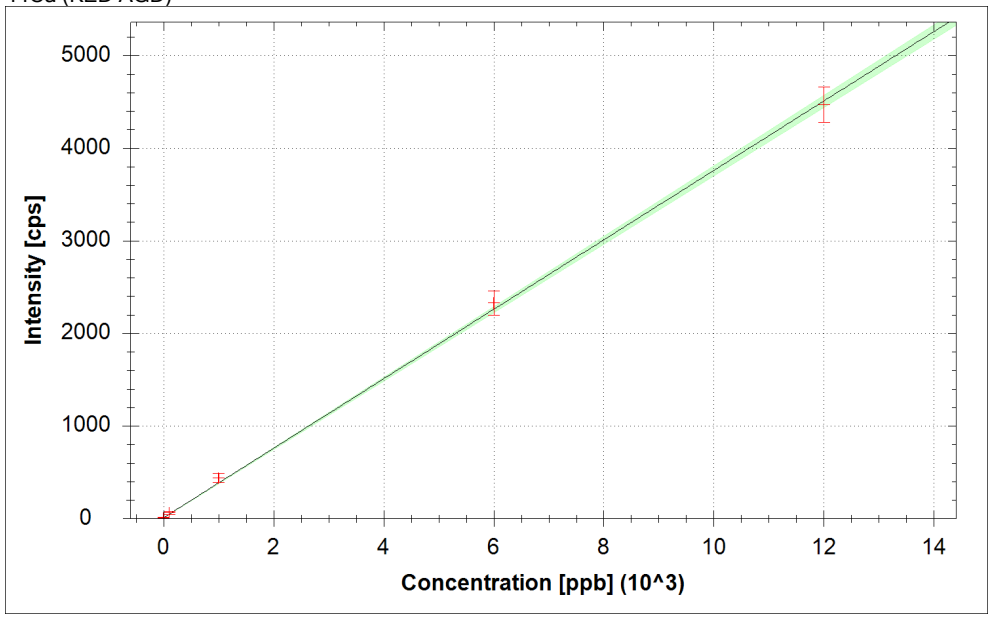
f(x) = 5.0977*x + 5.2266
R² = 0.9999
BEC = 1.025 ppb
LoD = 1.1627 ppb

39K (KED AGD)



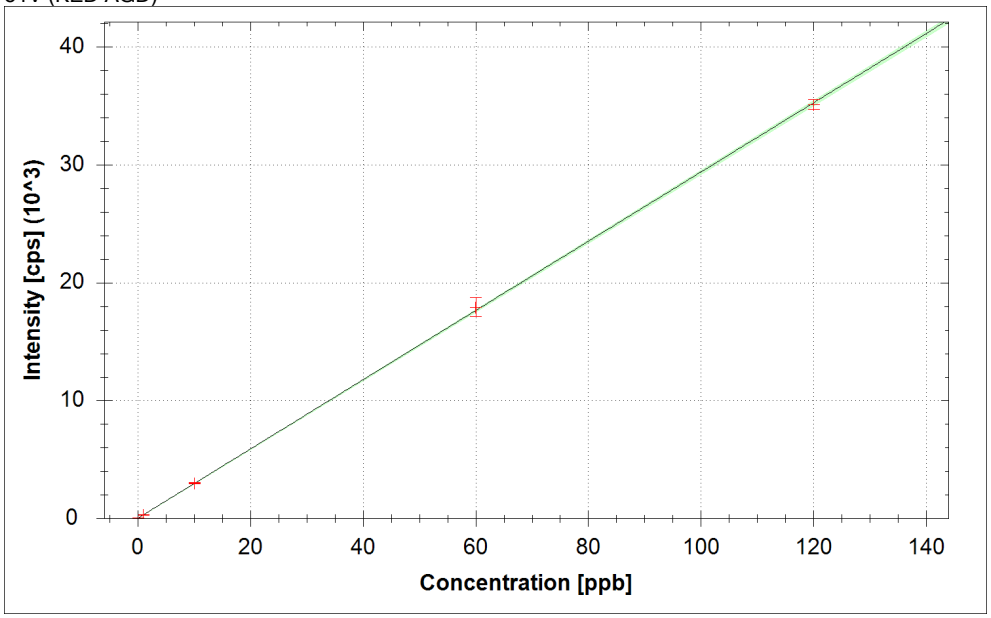
f(x) = 6.0877*x + 354.0750
R² = 0.9999
BEC = 58.162 ppb
LoD = 40.4970 ppb

44Ca (KED AGD)



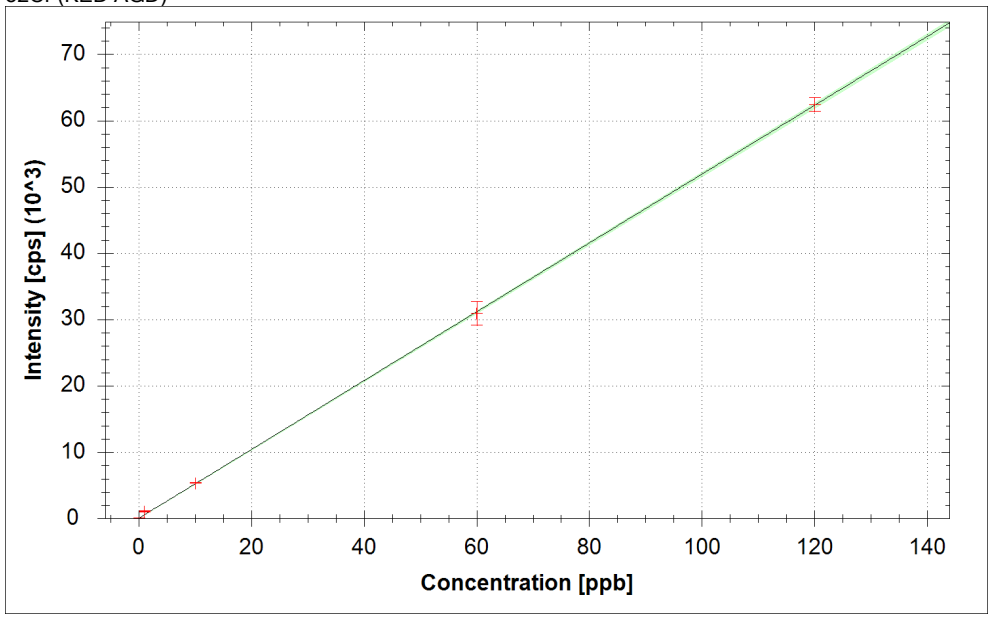
f(x) = 0.3750*x + 7.5873
R² = 0.9994
BEC = 20.232 ppb
LoD = 15.8635 ppb

51V (KED AGD)



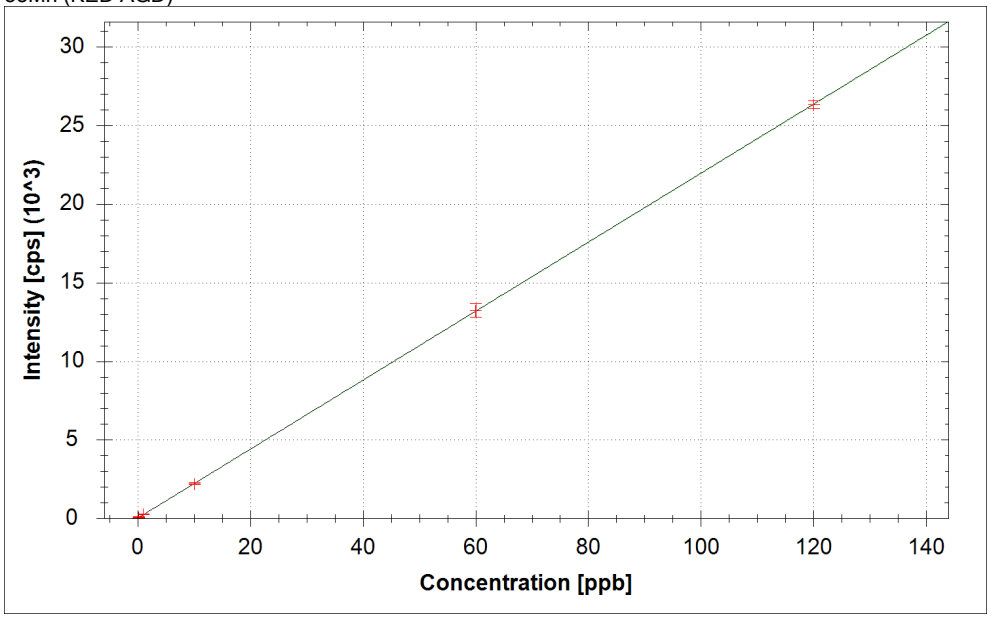
f(x) = 293.5583*x + 24.2260
R² = 0.9999
BEC = 0.083 ppb
LoD = 0.0609 ppb

52Cr (KED AGD)



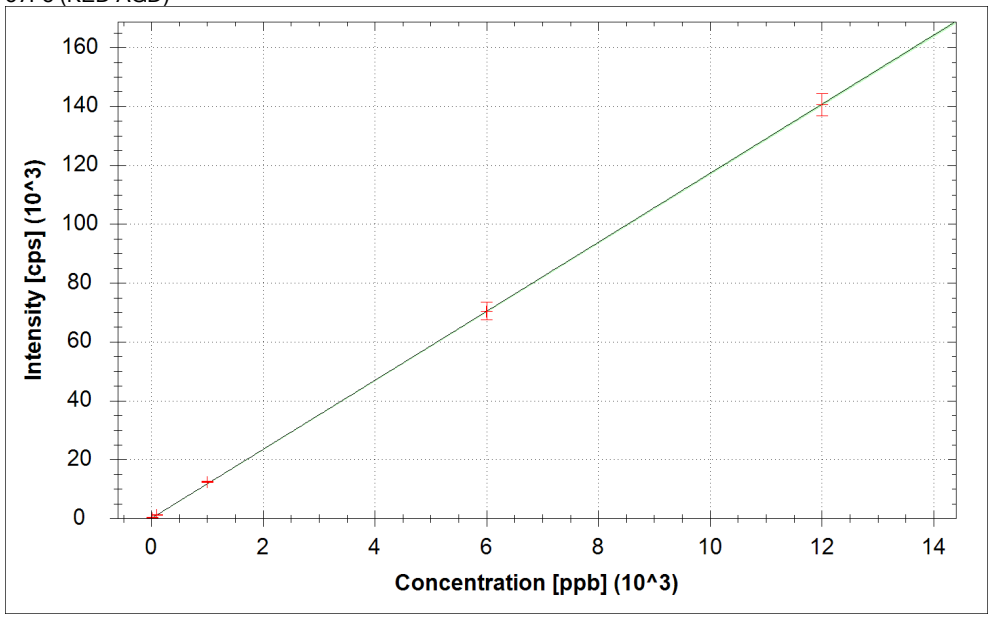
f(x) = 518.6805*x + 32.5052
R² = 0.9999
BEC = 0.063 ppb
LoD = 0.0919 ppb

55Mn (KED AGD)



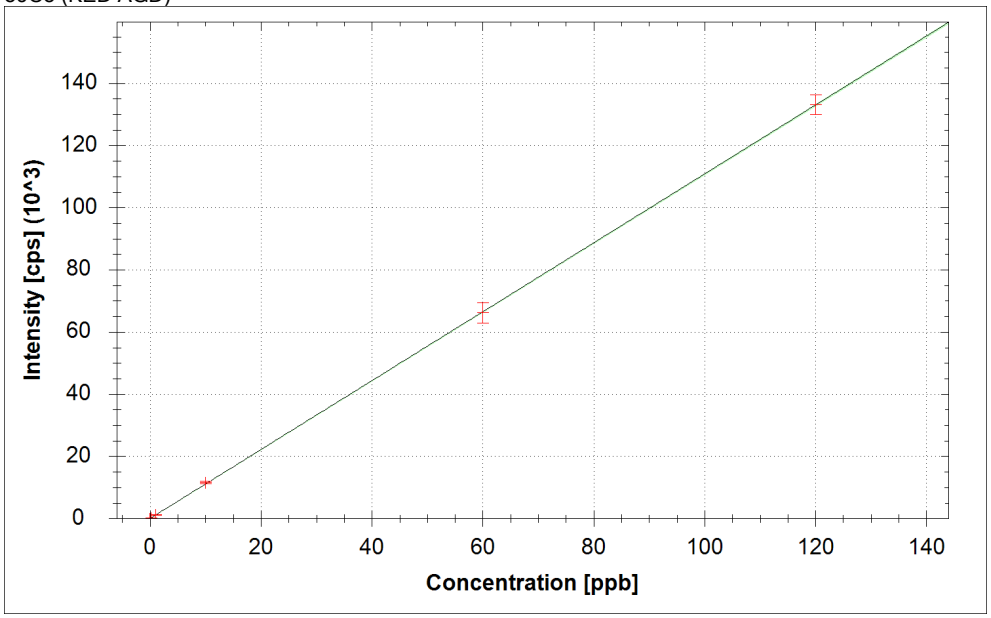
f(x) = 219.3912*x + 24.7371
R² = 1.0000
BEC = 0.113 ppb
LoD = 0.2184 ppb

57Fe (KED AGD)



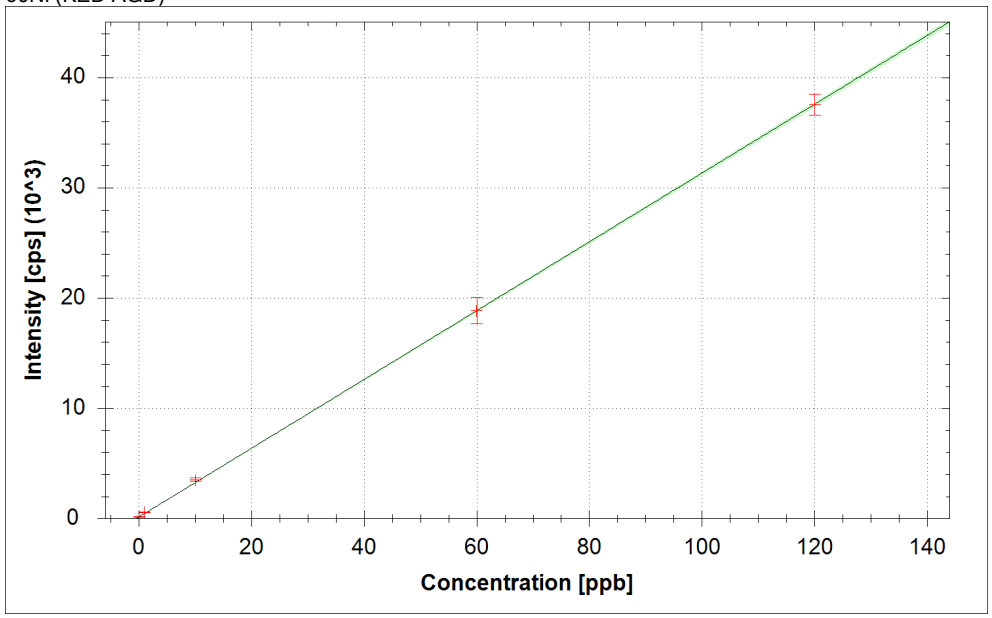
f(x) = 11.7209*x + 17.7499
R² = 1.0000
BEC = 1.514 ppb
LoD = 1.8849 ppb

59Co (KED AGD)



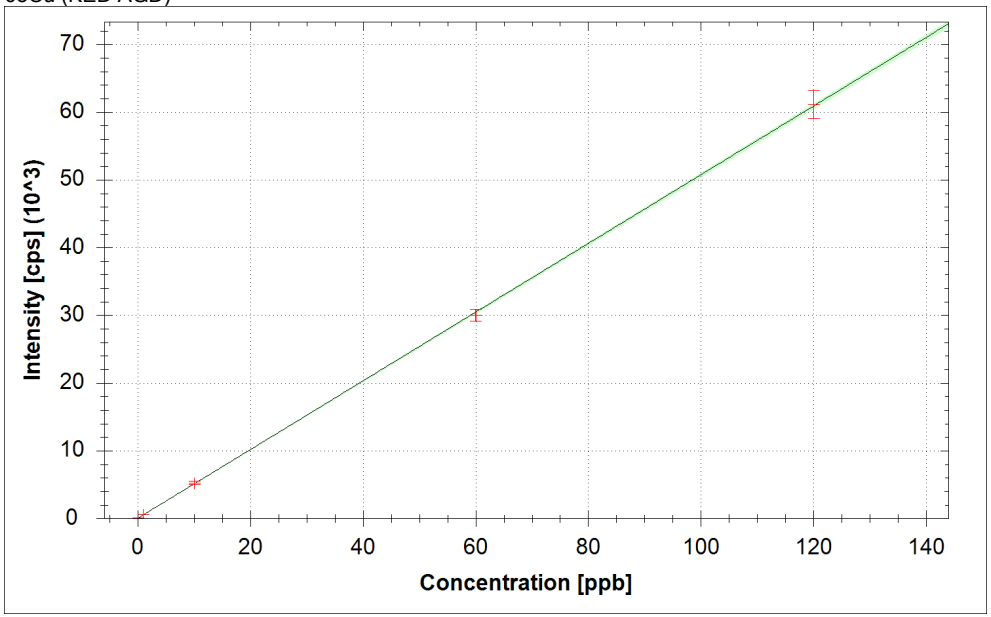
f(x) = 1108.0680*x + 4.5165
R² = 1.0000
BEC = 0.004 ppb
LoD = 0.0107 ppb

60Ni (KED AGD)



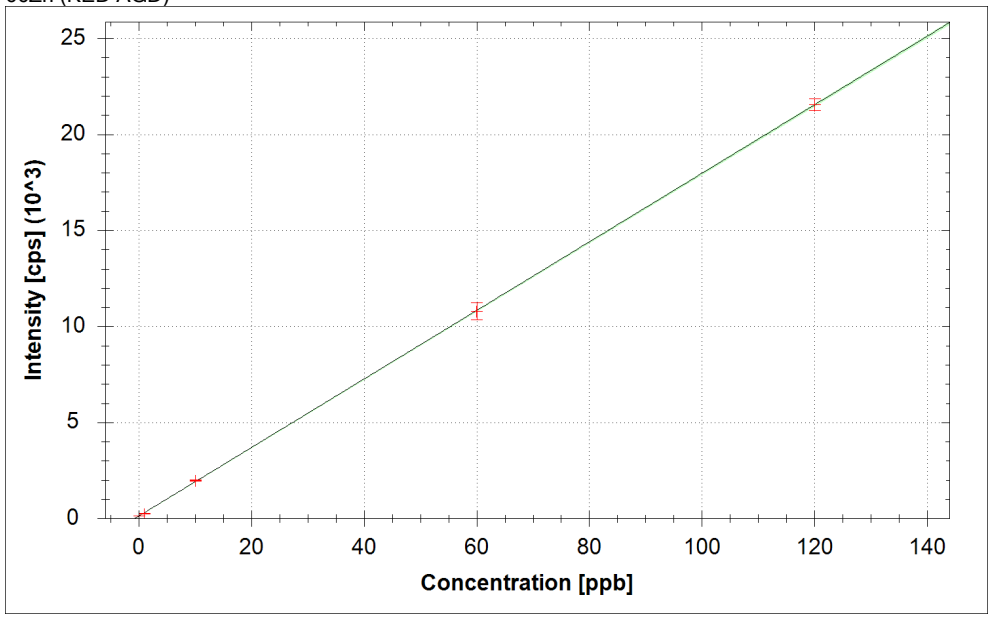
f(x) = 311.9453*x + 127.2458
R² = 0.9999
BEC = 0.408 ppb
LoD = 0.2013 ppb

65Cu (KED AGD)



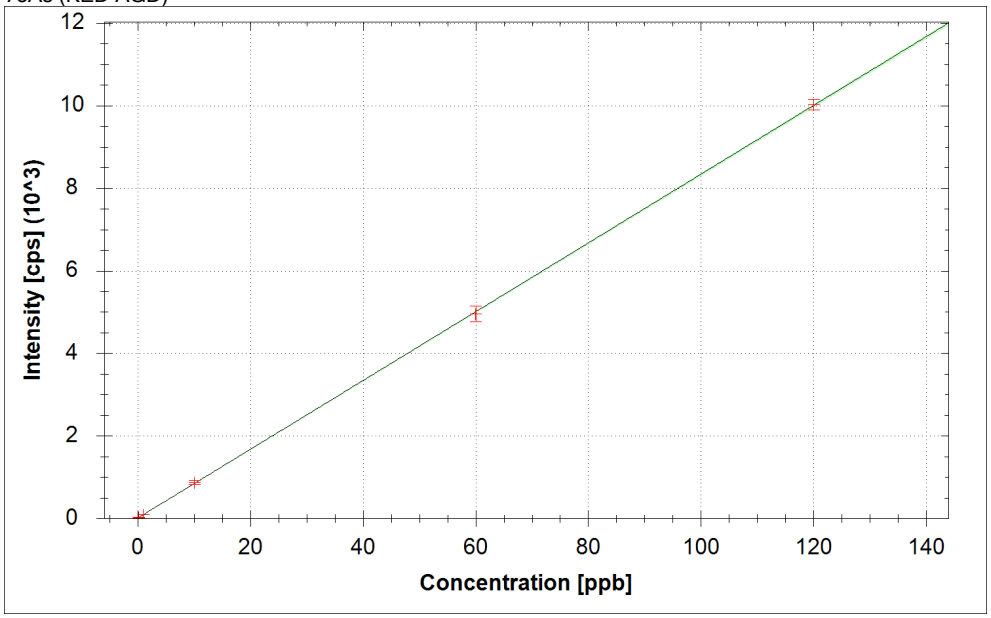
f(x) = 506.9397*x + 39.4724
R² = 0.9999
BEC = 0.078 ppb
LoD = 0.0902 ppb

66Zn (KED AGD)



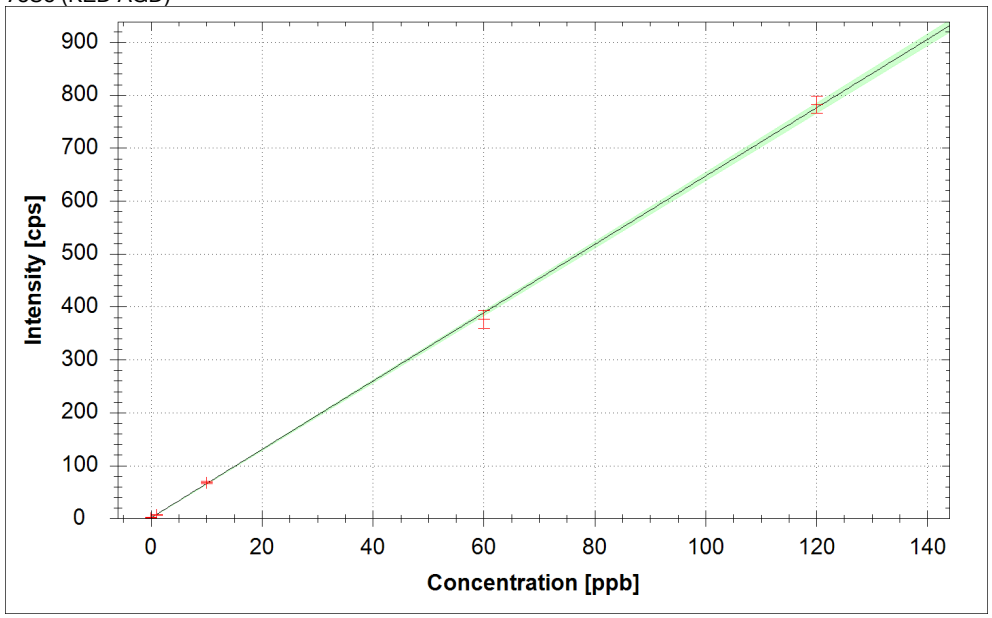
f(x) = 178.3671*x + 127.6119
R² = 1.0000
BEC = 0.715 ppb
LoD = 0.1906 ppb

75As (KED AGD)



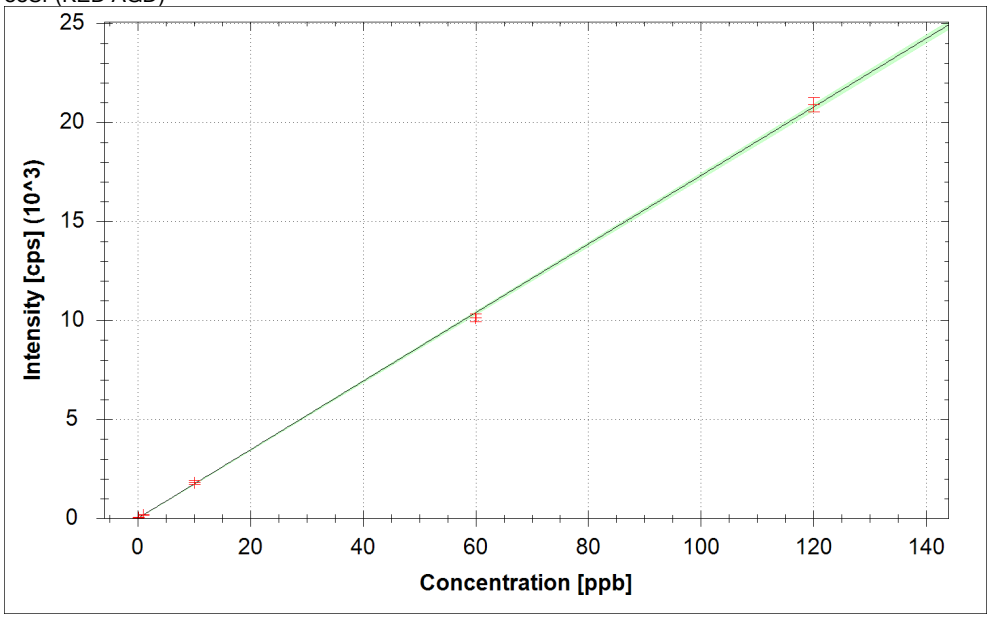
f(x) = 83.2447*x + 11.3616
R² = 1.0000
BEC = 0.136 ppb
LoD = 0.1593 ppb

78Se (KED AGD)



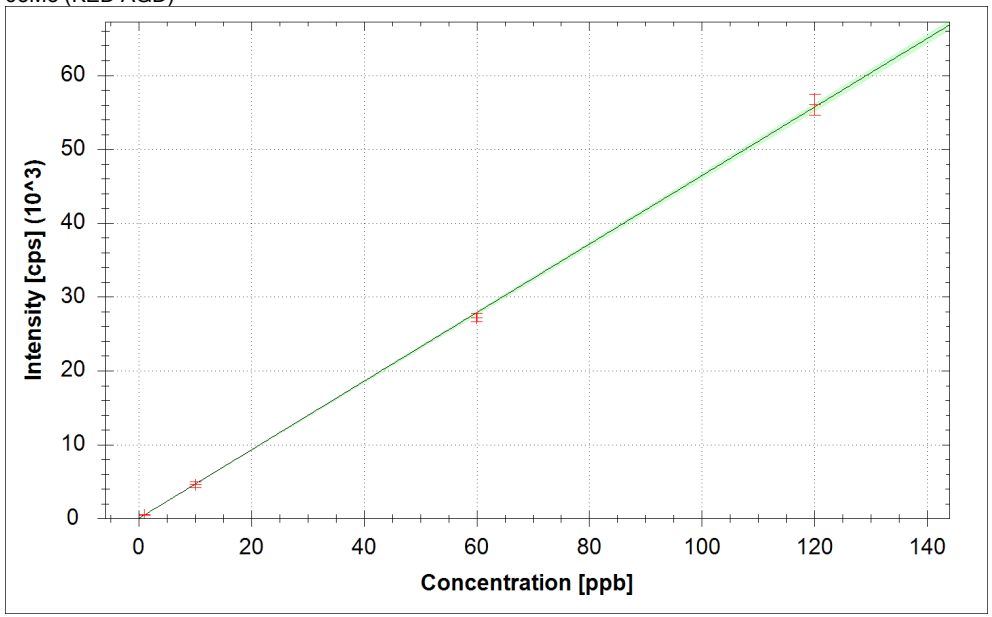
f(x) = 6.4569*x + 1.1684
R² = 0.9996
BEC = 0.181 ppb
LoD = 0.2127 ppb

88Sr (KED AGD)



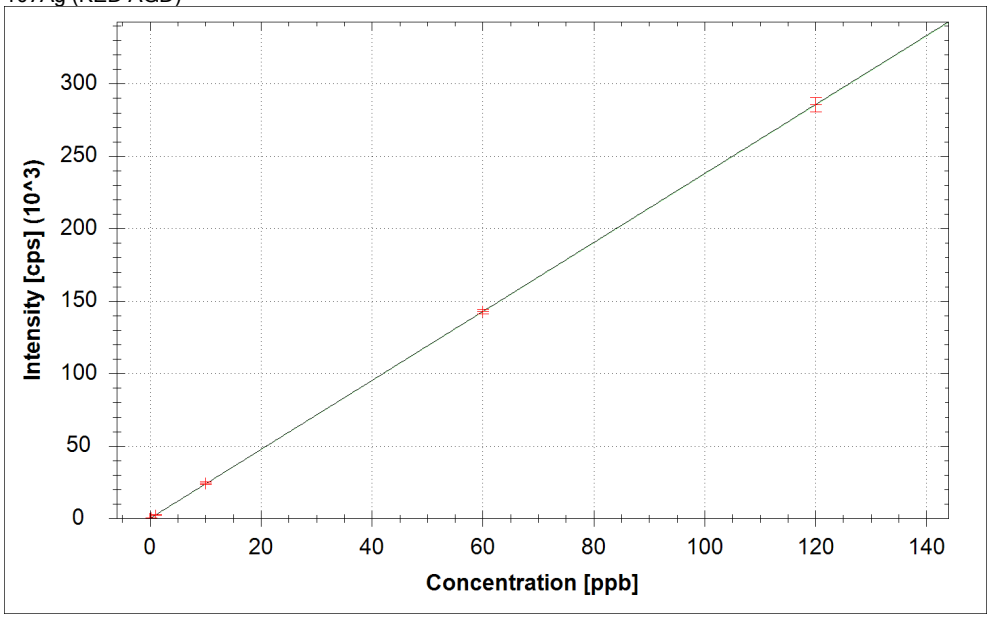
f(x) = 173.0115*x + 8.5424
R² = 0.9997
BEC = 0.049 ppb
LoD = 0.0054 ppb

95Mo (KED AGD)



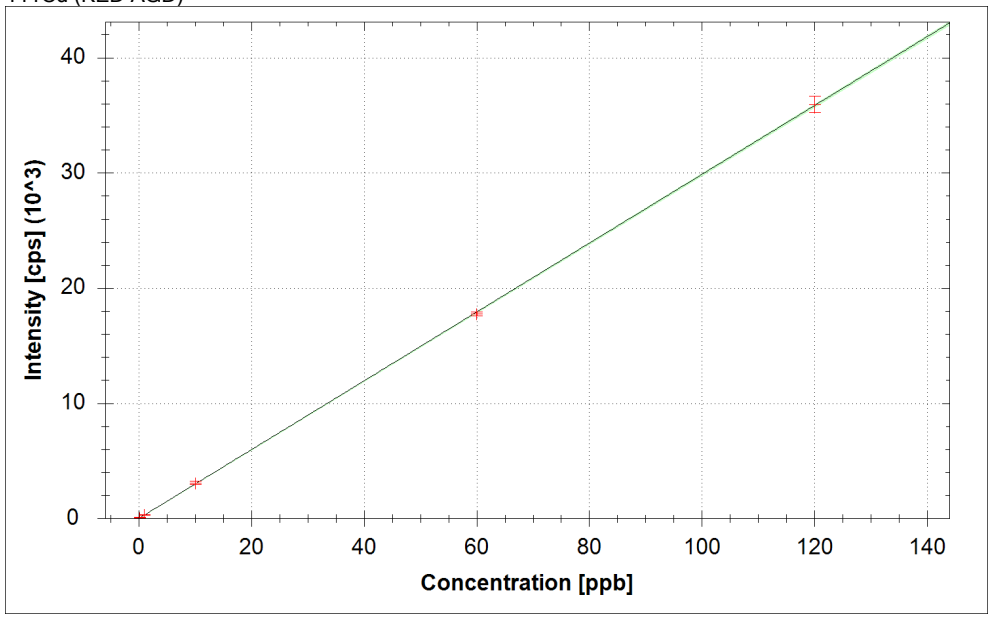
f(x) = 463.9045*x + 11.2464
R² = 0.9998
BEC = 0.024 ppb
LoD = 0.0276 ppb

107Ag (KED AGD)



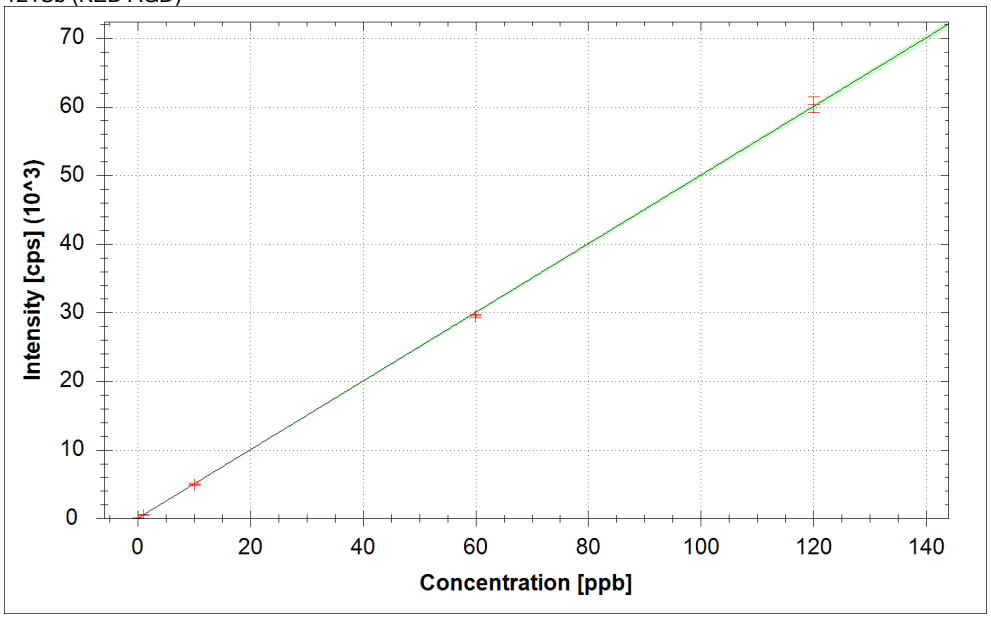
f(x) = 2379.3534*x + 5.5051
R² = 1.0000
BEC = 0.002 ppb
LoD = 0.0022 ppb

111Cd (KED AGD)



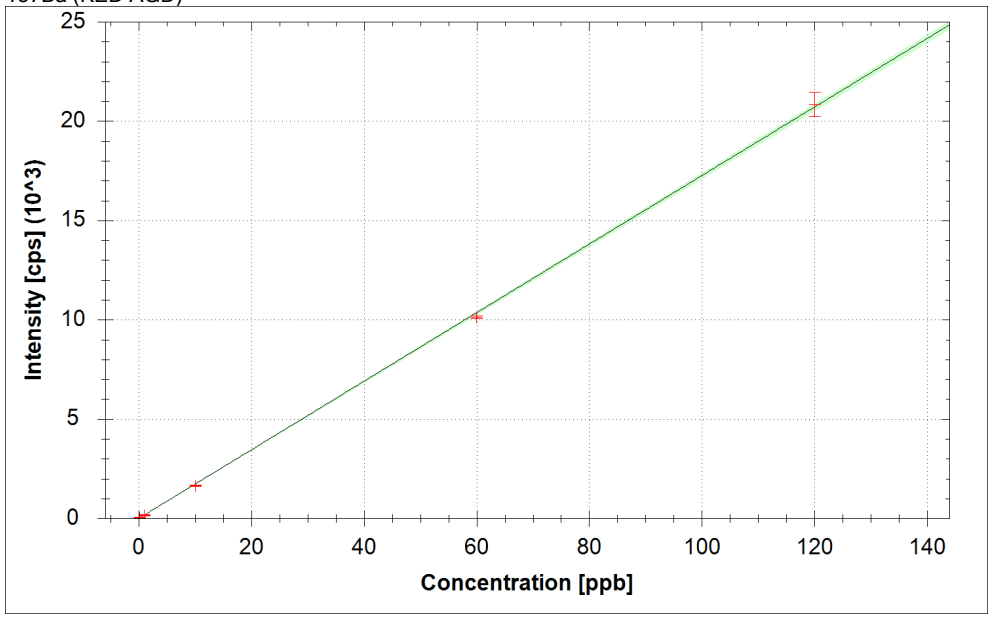
f(x) = 298.5754*x + 1.3564
R² = 1.0000
BEC = 0.005 ppb
LoD = 0.0134 ppb

121Sb (KED AGD)



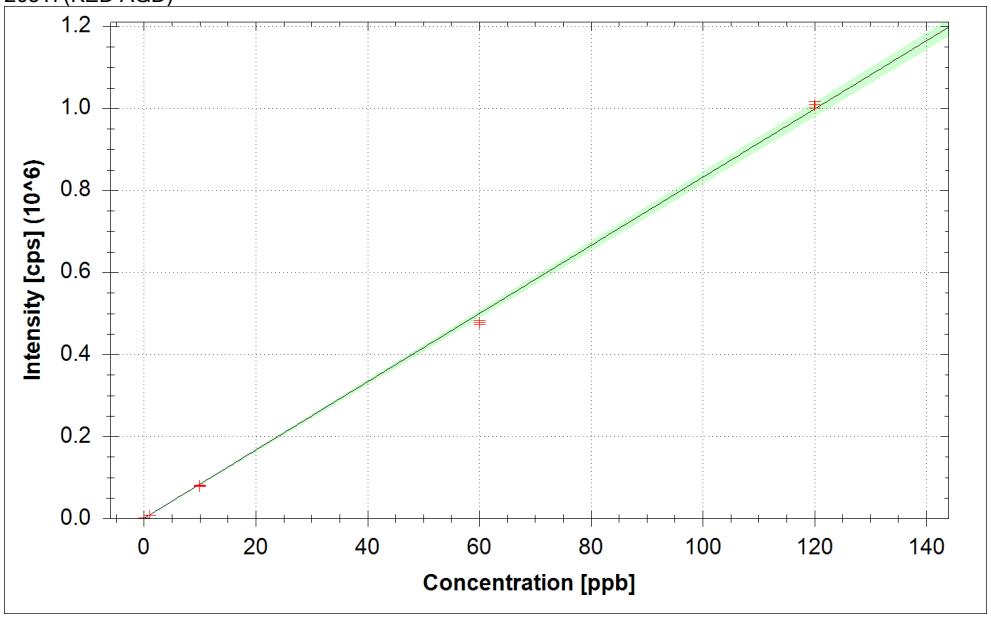
f(x) = 499.9751*x + 25.7515
R² = 0.9999
BEC = 0.052 ppb
LoD = 0.0128 ppb

137Ba (KED AGD)



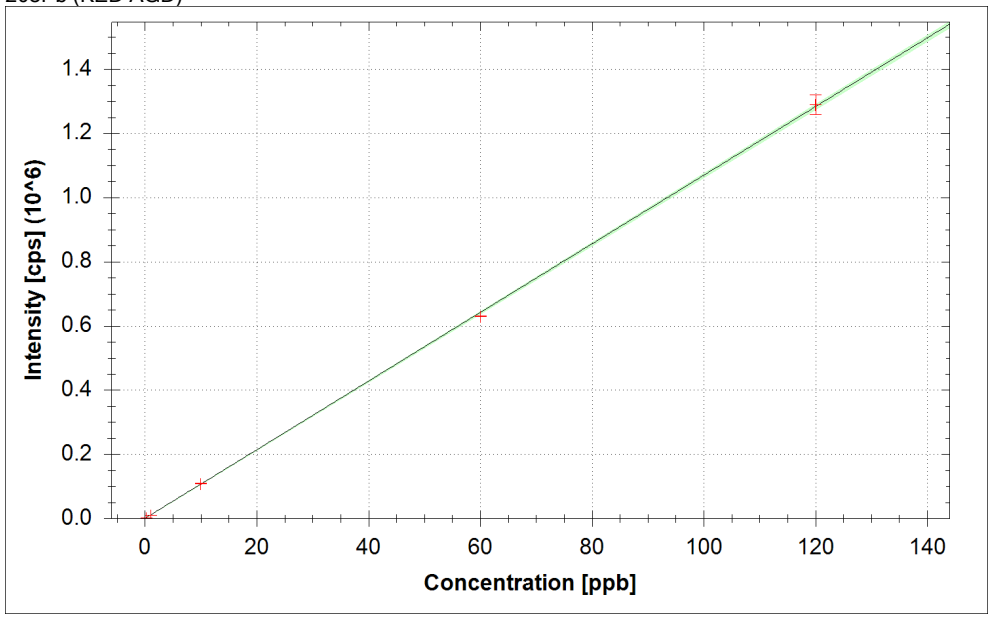
f(x) = 172.4914*x + 7.7412
R² = 0.9998
BEC = 0.045 ppb
LoD = 0.0281 ppb

205Tl (KED AGD)



f(x) = 8312.6986*x + 392.2742
R² = 0.9992
BEC = 0.047 ppb
LoD = 0.0643 ppb

208Pb (KED AGD)



f(x) = 10689.8047*x + 258.6292
R² = 0.9999
BEC = 0.024 ppb
LoD = 0.0073 ppb

Standards:

Analysis Index: 4
Analysis Name: 0.2/20 Cal
Analysis Type: STD
Analysis Started at: 3/5/2024 8:53:16 PM
Total Dilution Factor 1
Rack 0
Vial 2

Category	Concentration average	Concentration RSD	Standard Concentration	Standard Relative Difference
6Li (STD AGD)	105.065 %	0.6 %		0.000 %
6Li (KED AGD)	102.806 %	6.3 %		0.000 %
9Be (STD AGD)	0.216 ppb	5.1 %	0.200 ppb	8.111 %
23Na (KED AGD)	N/A	N/A	N/A	N/A
24Mg (KED AGD)	23.256 ppb	20.3 %	20.000 ppb	16.279 %
27Al (KED AGD)	N/A	N/A	N/A	N/A
39K (KED AGD)	N/A	N/A	N/A	N/A
44Ca (KED AGD)	N/A	N/A	N/A	N/A
45Sc (STD AGD)	101.859 %	0.8 %		0.000 %
51V (KED AGD)	N/A	N/A	N/A	N/A
52Cr (KED AGD)	N/A	N/A	N/A	N/A
55Mn (KED AGD)	0.228 ppb	52.2 %	0.200 ppb	13.757 %
57Fe (KED AGD)	21.460 ppb	37.7 %	20.000 ppb	7.299 %
59Co (KED AGD)	0.180 ppb	11.4 %	0.200 ppb	10.146 %
60Ni (KED AGD)	N/A	N/A	N/A	N/A
65Cu (KED AGD)	N/A	N/A	N/A	N/A
66Zn (KED AGD)	N/A	N/A	N/A	N/A
74Ge (KED AGD)	101.699 %	6.1 %		0.000 %
75As (KED AGD)	0.155 ppb	79.8 %	0.200 ppb	22.585 %
78Se (KED AGD)	N/A	N/A	N/A	N/A
88Sr (KED AGD)	0.249 ppb	2.1 %	0.200 ppb	24.379 %
95Mo (KED AGD)	N/A	N/A	N/A	N/A
103Rh (KED AGD)	102.075 %	4.0 %		0.000 %
107Ag (KED AGD)	0.189 ppb	4.9 %	0.200 ppb	5.739 %
111Cd (KED AGD)	0.220 ppb	6.4 %	0.200 ppb	10.125 %
115In (KED AGD)	102.976 %	8.5 %		0.000 %
121Sb (KED AGD)	N/A	N/A	N/A	N/A
137Ba (KED AGD)	0.162 ppb	55.6 %	0.200 ppb	19.101 %
159Tb (KED AGD)	103.226 %	5.9 %		0.000 %
175Lu (KED AGD)	103.310 %	7.9 %		0.000 %
205Tl (KED AGD)	N/A	N/A	N/A	N/A
208Pb (KED AGD)	0.185 ppb	1.4 %	0.200 ppb	7.407 %
209Bi (KED AGD)	100.873 %	3.6 %		0.000 %

Standards:

Analysis Index: 5
Analysis Name: 1/100 Cal
Analysis Type: STD
Analysis Started at: 3/5/2024 8:57:42 PM
Total Dilution Factor 10000
Rack 0
Vial 3

Category	Concentration average	Concentration RSD	Standard Concentration	Standard Relative Difference
6Li (STD AGD)	99.751 %	0.1 %		0.000 %
6Li (KED AGD)	102.551 %	9.2 %		0.000 %
9Be (STD AGD)	1.054 ppb	4.3 %	1.000 ppb	5.363 %
23Na (KED AGD)	86.591 ppb	12.3 %	100.000 ppb	13.409 %
24Mg (KED AGD)	94.694 ppb	5.6 %	100.000 ppb	5.306 %
27Al (KED AGD)	1.201 ppb	22.2 %	1.000 ppb	20.073 %
39K (KED AGD)	102.816 ppb	3.7 %	100.000 ppb	2.816 %
44Ca (KED AGD)	135.213 ppb	32.8 %	100.000 ppb	35.213 %
45Sc (STD AGD)	91.562 %	0.7 %		0.000 %
51V (KED AGD)	0.968 ppb	7.3 %	1.000 ppb	3.239 %
52Cr (KED AGD)	1.954 ppb	9.7 %	1.000 ppb	95.422 %
55Mn (KED AGD)	1.083 ppb	5.4 %	1.000 ppb	8.348 %
57Fe (KED AGD)	103.586 ppb	9.0 %	100.000 ppb	3.586 %
59Co (KED AGD)	0.995 ppb	9.3 %	1.000 ppb	0.522 %
60Ni (KED AGD)	1.425 ppb	6.0 %	1.000 ppb	42.498 %
65Cu (KED AGD)	1.045 ppb	3.5 %	1.000 ppb	4.522 %
66Zn (KED AGD)	0.646 ppb	4.4 %	1.000 ppb	35.363 %
74Ge (KED AGD)	98.714 %	3.9 %		0.000 %
75As (KED AGD)	0.970 ppb	6.2 %	1.000 ppb	2.982 %
78Se (KED AGD)	0.846 ppb	3.5 %	1.000 ppb	15.429 %
88Sr (KED AGD)	0.992 ppb	5.2 %	1.000 ppb	0.802 %
95Mo (KED AGD)	1.049 ppb	7.2 %	1.000 ppb	4.914 %
103Rh (KED AGD)	97.979 %	5.7 %		0.000 %
107Ag (KED AGD)	0.956 ppb	4.2 %	1.000 ppb	4.405 %
111Cd (KED AGD)	1.030 ppb	4.3 %	1.000 ppb	3.032 %
115In (KED AGD)	99.168 %	2.6 %		0.000 %
121Sb (KED AGD)	0.968 ppb	3.2 %	1.000 ppb	3.178 %
137Ba (KED AGD)	0.891 ppb	18.2 %	1.000 ppb	10.904 %
159Tb (KED AGD)	97.648 %	3.4 %		0.000 %
175Lu (KED AGD)	99.436 %	3.5 %		0.000 %
205Tl (KED AGD)	0.848 ppb	1.1 %	1.000 ppb	15.214 %
208Pb (KED AGD)	0.966 ppb	0.3 %	1.000 ppb	3.358 %
209Bi (KED AGD)	95.817 %	4.1 %		0.000 %

Standards:

Analysis Index: 6
Analysis Name: 10/1000 Cal
Analysis Type: STD
Analysis Started at: 3/5/2024 9:02:09 PM
Total Dilution Factor 1000
Rack 0
Vial 4

Category	Concentration average	Concentration RSD	Standard Concentration	Standard Relative Difference
6Li (STD AGD)	102.183 %	0.4 %		0.000 %
6Li (KED AGD)	104.337 %	8.1 %		0.000 %
9Be (STD AGD)	10.836 ppb	0.5 %	10.000 ppb	8.358 %
23Na (KED AGD)	1,012.654 ppb	2.9 %	1,000.000 ppb	1.265 %
24Mg (KED AGD)	1,029.156 ppb	0.8 %	1,000.000 ppb	2.916 %
27Al (KED AGD)	9.781 ppb	16.8 %	10.000 ppb	2.195 %
39K (KED AGD)	1,050.723 ppb	4.8 %	1,000.000 ppb	5.072 %
44Ca (KED AGD)	1,148.334 ppb	11.5 %	1,000.000 ppb	14.833 %
45Sc (STD AGD)	94.515 %	1.5 %		0.000 %
51V (KED AGD)	10.127 ppb	2.3 %	10.000 ppb	1.267 %
52Cr (KED AGD)	10.249 ppb	1.3 %	10.000 ppb	2.494 %
55Mn (KED AGD)	10.000 ppb	3.6 %	10.000 ppb	0.004 %
57Fe (KED AGD)	1,056.439 ppb	2.2 %	1,000.000 ppb	5.644 %
59Co (KED AGD)	10.371 ppb	3.4 %	10.000 ppb	3.713 %
60Ni (KED AGD)	10.883 ppb	4.1 %	10.000 ppb	8.827 %
65Cu (KED AGD)	10.258 ppb	4.2 %	10.000 ppb	2.582 %
66Zn (KED AGD)	10.345 ppb	1.1 %	10.000 ppb	3.451 %
74Ge (KED AGD)	98.957 %	5.0 %		0.000 %
75As (KED AGD)	10.332 ppb	5.3 %	10.000 ppb	3.317 %
78Se (KED AGD)	10.410 ppb	3.7 %	10.000 ppb	4.095 %
88Sr (KED AGD)	10.408 ppb	5.4 %	10.000 ppb	4.085 %
95Mo (KED AGD)	9.811 ppb	9.2 %	10.000 ppb	1.888 %
103Rh (KED AGD)	97.296 %	3.5 %		0.000 %
107Ag (KED AGD)	10.174 ppb	3.4 %	10.000 ppb	1.744 %
111Cd (KED AGD)	10.307 ppb	4.3 %	10.000 ppb	3.068 %
115In (KED AGD)	98.834 %	10.1 %		0.000 %
121Sb (KED AGD)	9.863 ppb	4.2 %	10.000 ppb	1.372 %
137Ba (KED AGD)	9.481 ppb	2.6 %	10.000 ppb	5.190 %
159Tb (KED AGD)	96.031 %	6.0 %		0.000 %
175Lu (KED AGD)	96.909 %	5.6 %		0.000 %
205Tl (KED AGD)	9.461 ppb	1.9 %	10.000 ppb	5.389 %
208Pb (KED AGD)	10.136 ppb	1.4 %	10.000 ppb	1.361 %
209Bi (KED AGD)	95.391 %	4.9 %		0.000 %

Standards:

Analysis Index: 7
Analysis Name: 60/6000 Cal
Analysis Type: STD
Analysis Started at: 3/5/2024 9:06:37 PM
Total Dilution Factor 166.6666666
Rack 0
Vial 5

Category	Concentration average	Concentration RSD	Standard Concentration	Standard Relative Difference
6Li (STD AGD)	101.484 %	0.9 %		0.000 %
6Li (KED AGD)	101.403 %	15.1 %		0.000 %
9Be (STD AGD)	61.243 ppb	1.1 %	60.000 ppb	2.072 %
23Na (KED AGD)	6,103.650 ppb	11.4 %	6,000.000 ppb	1.728 %
24Mg (KED AGD)	6,087.504 ppb	11.8 %	6,000.000 ppb	1.458 %
27Al (KED AGD)	59.387 ppb	10.0 %	60.000 ppb	1.021 %
39K (KED AGD)	6,081.093 ppb	11.0 %	6,000.000 ppb	1.352 %
44Ca (KED AGD)	6,181.497 ppb	5.6 %	6,000.000 ppb	3.025 %
45Sc (STD AGD)	98.888 %	1.2 %		0.000 %
51V (KED AGD)	60.982 ppb	4.4 %	60.000 ppb	1.637 %
52Cr (KED AGD)	59.477 ppb	5.8 %	60.000 ppb	0.872 %
55Mn (KED AGD)	60.221 ppb	3.4 %	60.000 ppb	0.368 %
57Fe (KED AGD)	6,008.079 ppb	4.2 %	6,000.000 ppb	0.135 %
59Co (KED AGD)	59.703 ppb	5.0 %	60.000 ppb	0.495 %
60Ni (KED AGD)	59.975 ppb	6.4 %	60.000 ppb	0.042 %
65Cu (KED AGD)	59.069 ppb	2.8 %	60.000 ppb	1.551 %
66Zn (KED AGD)	59.800 ppb	4.2 %	60.000 ppb	0.333 %
74Ge (KED AGD)	100.971 %	3.3 %		0.000 %
75As (KED AGD)	59.426 ppb	3.9 %	60.000 ppb	0.957 %
78Se (KED AGD)	58.084 ppb	4.5 %	60.000 ppb	3.193 %
88Sr (KED AGD)	58.465 ppb	2.1 %	60.000 ppb	2.559 %
95Mo (KED AGD)	58.553 ppb	2.2 %	60.000 ppb	2.412 %
103Rh (KED AGD)	96.273 %	4.1 %		0.000 %
107Ag (KED AGD)	59.981 ppb	1.1 %	60.000 ppb	0.031 %
111Cd (KED AGD)	59.375 ppb	1.0 %	60.000 ppb	1.042 %
115In (KED AGD)	97.132 %	3.6 %		0.000 %
121Sb (KED AGD)	58.897 ppb	0.9 %	60.000 ppb	1.839 %
137Ba (KED AGD)	58.648 ppb	0.7 %	60.000 ppb	2.253 %
159Tb (KED AGD)	91.609 %	3.5 %		0.000 %
175Lu (KED AGD)	89.991 %	3.4 %		0.000 %
205Tl (KED AGD)	57.454 ppb	1.0 %	60.000 ppb	4.244 %
208Pb (KED AGD)	58.808 ppb	0.2 %	60.000 ppb	1.987 %
209Bi (KED AGD)	95.927 %	3.2 %		0.000 %

Standards:

Analysis Index: 8
Analysis Name: 120/12000 Cal
Analysis Type: STD
Analysis Started at: 3/5/2024 9:11:05 PM
Total Dilution Factor 83.33333333
Rack 0
Vial 6

Category	Concentration average	Concentration RSD	Standard Concentration	Standard Relative Difference
6Li (STD AGD)	96.310 %	0.8 %		0.000 %
6Li (KED AGD)	101.658 %	10.4 %		0.000 %
9Be (STD AGD)	119.308 ppb	0.7 %	120.000 ppb	0.576 %
23Na (KED AGD)	11,947.232 ppb	7.4 %	12,000.000 ppb	0.440 %
24Mg (KED AGD)	11,953.857 ppb	7.4 %	12,000.000 ppb	0.385 %
27Al (KED AGD)	120.323 ppb	4.1 %	120.000 ppb	0.269 %
39K (KED AGD)	11,955.203 ppb	4.8 %	12,000.000 ppb	0.373 %
44Ca (KED AGD)	11,896.597 ppb	4.3 %	12,000.000 ppb	0.862 %
45Sc (STD AGD)	86.290 %	1.5 %		0.000 %
51V (KED AGD)	119.499 ppb	1.2 %	120.000 ppb	0.418 %
52Cr (KED AGD)	120.233 ppb	1.7 %	120.000 ppb	0.194 %
55Mn (KED AGD)	119.889 ppb	0.9 %	120.000 ppb	0.093 %
57Fe (KED AGD)	11,991.225 ppb	2.7 %	12,000.000 ppb	0.073 %
59Co (KED AGD)	120.118 ppb	2.4 %	120.000 ppb	0.098 %
60Ni (KED AGD)	119.935 ppb	2.5 %	120.000 ppb	0.054 %
65Cu (KED AGD)	120.443 ppb	3.4 %	120.000 ppb	0.370 %
66Zn (KED AGD)	120.074 ppb	1.5 %	120.000 ppb	0.062 %
74Ge (KED AGD)	95.600 %	2.7 %		0.000 %
75As (KED AGD)	120.260 ppb	1.3 %	120.000 ppb	0.216 %
78Se (KED AGD)	120.925 ppb	2.1 %	120.000 ppb	0.771 %
88Sr (KED AGD)	120.734 ppb	1.8 %	120.000 ppb	0.611 %
95Mo (KED AGD)	120.739 ppb	2.5 %	120.000 ppb	0.616 %
103Rh (KED AGD)	91.590 %	2.1 %		0.000 %
107Ag (KED AGD)	119.995 ppb	1.7 %	120.000 ppb	0.004 %
111Cd (KED AGD)	120.287 ppb	2.0 %	120.000 ppb	0.239 %
115In (KED AGD)	92.405 %	2.7 %		0.000 %
121Sb (KED AGD)	120.563 ppb	1.9 %	120.000 ppb	0.469 %
137Ba (KED AGD)	120.720 ppb	2.9 %	120.000 ppb	0.600 %
159Tb (KED AGD)	85.319 %	1.8 %		0.000 %
175Lu (KED AGD)	82.723 %	2.0 %		0.000 %
205Tl (KED AGD)	121.319 ppb	0.8 %	120.000 ppb	1.099 %
208Pb (KED AGD)	120.585 ppb	2.4 %	120.000 ppb	0.487 %
209Bi (KED AGD)	90.542 %	0.0 %		0.000 %

Alpha ICPMSQ2 Data with SRD

3/6/2024 5:39:21 AM

Analysis index:	1	User name	ALPHALAB\a2-icpmsq2	Comment	<Comment>
Analysis label:	Rinse	Rack	0		
Analysis started at:	3/5/2024 8:39:56 PM	Vial	1		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	102.977 %	107.526 %	0.017 ppb	5.013 ppb	2.729 ppb	1.186 ppb	0.816 ppb	35.832 ppb	99.360 %
Concentration per Run 1	102.158 %	98.342 %	0.020 ppb	12.061 ppb	3.081 ppb	1.008 ppb	8.424 ppb	63.979 ppb	98.533 %
Concentration per Run 2	103.287 %	103.699 %	0.015 ppb	1.193 ppb	2.331 ppb	1.014 ppb	-10.907 ppb	44.601 ppb	100.063 %
Concentration per Run 3	103.486 %	120.536 %	0.016 ppb	1.785 ppb	2.774 ppb	1.536 ppb	4.930 ppb	-1.084 ppb	99.483 %
Concentration RSD	0.7 %	10.8 %	17.9 %	121.9 %	13.8 %	25.6 %	1,262.6 %	93.2 %	0.8 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.044 ppb	0.026 ppb	0.086 ppb	7.955 ppb	0.025 ppb	0.349 ppb	0.233 ppb	2.849 ppb	95.433 %
Concentration per Run 1	-0.058 ppb	0.019 ppb	0.243 ppb	9.403 ppb	0.034 ppb	0.346 ppb	0.219 ppb	2.814 ppb	92.260 %
Concentration per Run 2	0.097 ppb	0.039 ppb	-0.053 ppb	7.494 ppb	0.014 ppb	0.270 ppb	0.288 ppb	2.875 ppb	100.131 %
Concentration per Run 3	0.094 ppb	0.019 ppb	0.067 ppb	6.969 ppb	0.026 ppb	0.431 ppb	0.192 ppb	2.859 ppb	93.908 %
Concentration RSD	201.4 %	44.8 %	173.3 %	16.1 %	42.0 %	23.0 %	21.3 %	1.1 %	4.3 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.033 ppb	0.045 ppb	0.047 ppb	0.033 ppb	102.834 %	0.018 ppb	0.011 ppb	101.730 %	0.056 ppb
Concentration per Run 1	0.101 ppb	-0.031 ppb	0.070 ppb	0.063 ppb	100.971 %	0.026 ppb	0.000 ppb	99.019 %	0.045 ppb
Concentration per Run 2	-0.037 ppb	-0.061 ppb	0.051 ppb	0.004 ppb	103.607 %	0.010 ppb	0.009 ppb	102.173 %	0.050 ppb
Concentration per Run 3	0.033 ppb	0.226 ppb	0.021 ppb	0.033 ppb	103.923 %	0.019 ppb	0.026 ppb	103.997 %	0.074 ppb
Concentration RSD	210.8 %	353.1 %	52.3 %	89.6 %	1.6 %	43.3 %	115.0 %	2.5 %	27.6 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.056 ppb	103.615 %	102.917 %	0.070 ppb	0.032 ppb	104.255 %
Concentration per Run 1	0.090 ppb	100.865 %	100.085 %	0.031 ppb	0.020 ppb	103.380 %
Concentration per Run 2	0.048 ppb	106.211 %	104.306 %	0.094 ppb	0.040 ppb	104.671 %
Concentration per Run 3	0.030 ppb	103.767 %	104.359 %	0.086 ppb	0.034 ppb	104.715 %
Concentration RSD	55.9 %	2.6 %	2.4 %	49.0 %	32.2 %	0.7 %

Alpha ICPMSQ2 Data with SRD

3/6/2024 5:39:21 AM

Analysis index:	2	User name	ALPHALAB\a2-icpmsq2	Comment	<Comment>
Analysis label:	CAL LOT #M24-1045	Rack	0		
Analysis started at:	3/5/2024 8:44:20 PM	Vial	1		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	100.829 %	103.571 %	0.020 ppb	6.067 ppb	1.745 ppb	1.538 ppb	6.315 ppb	21.578 ppb	97.817 %
Concentration per Run 1	100.283 %	101.020 %	0.022 ppb	8.001 ppb	1.032 ppb	2.920 ppb	12.974 ppb	21.992 ppb	97.981 %
Concentration per Run 2	101.440 %	99.872 %	0.018 ppb	7.164 ppb	3.402 ppb	0.546 ppb	-1.124 ppb	17.693 ppb	99.776 %
Concentration per Run 3	100.765 %	109.821 %	0.021 ppb	3.036 ppb	0.799 ppb	1.149 ppb	7.096 ppb	25.050 ppb	95.695 %
Concentration RSD	0.6 %	5.3 %	9.1 %	43.8 %	82.6 %	80.2 %	112.1 %	17.1 %	2.1 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.058 ppb	0.022 ppb	0.136 ppb	9.403 ppb	0.018 ppb	0.197 ppb	0.171 ppb	2.615 ppb	100.173 %
Concentration per Run 1	-0.013 ppb	0.003 ppb	0.137 ppb	11.364 ppb	0.015 ppb	-0.011 ppb	0.222 ppb	2.779 ppb	95.881 %
Concentration per Run 2	0.099 ppb	0.040 ppb	0.039 ppb	8.172 ppb	0.020 ppb	0.406 ppb	0.120 ppb	2.513 ppb	99.804 %
Concentration per Run 3	0.088 ppb	0.022 ppb	0.231 ppb	8.673 ppb	0.019 ppb	0.198 ppb	0.171 ppb	2.553 ppb	104.835 %
Concentration RSD	106.0 %	85.1 %	70.4 %	18.3 %	16.1 %	105.5 %	29.8 %	5.5 %	4.5 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.043 ppb	-0.040 ppb	0.029 ppb	0.023 ppb	101.741 %	0.017 ppb	0.018 ppb	104.366 %	0.011 ppb
Concentration per Run 1	0.030 ppb	-0.066 ppb	0.030 ppb	0.020 ppb	98.943 %	0.014 ppb	0.013 ppb	104.679 %	-0.005 ppb
Concentration per Run 2	0.064 ppb	-0.122 ppb	0.029 ppb	0.019 ppb	100.949 %	0.020 ppb	0.022 ppb	101.770 %	0.022 ppb
Concentration per Run 3	0.035 ppb	0.066 ppb	0.029 ppb	0.030 ppb	105.329 %	0.016 ppb	0.021 ppb	106.649 %	0.016 ppb
Concentration RSD	42.0 %	239.2 %	1.5 %	28.5 %	3.2 %	16.6 %	26.6 %	2.4 %	131.2 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.030 ppb	101.521 %	101.359 %	0.029 ppb	0.032 ppb	102.302 %
Concentration per Run 1	0.031 ppb	98.912 %	100.217 %	0.004 ppb	0.031 ppb	99.932 %
Concentration per Run 2	0.050 ppb	100.933 %	100.289 %	0.035 ppb	0.035 ppb	101.515 %
Concentration per Run 3	0.010 ppb	104.717 %	103.572 %	0.048 ppb	0.031 ppb	105.459 %
Concentration RSD	66.4 %	2.9 %	1.9 %	77.1 %	8.6 %	2.8 %

Alpha ICPMSQ2 Data with SRD

3/6/2024 5:39:21 AM

Analysis index:	3	User name	ALPHALAB\a2-icpmsq2	Comment	<Comment>
Analysis label:	Blank WKP ICPMSQ2	Rack	4		
Analysis started at:	3/5/2024 8:48:45 PM	Vial	49		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	100.000 %	100.000 %	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	100.000 %
Concentration per Run	100.000 %	100.000 %	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	100.000 %
Concentration RSD	0.0 %	0.1 %	0.4 %	0.1 %	0.7 %	0.4 %	0.2 %	0.3 %	0.0 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	100.000 %
Concentration per Run	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	100.000 %
Concentration RSD	0.2 %	0.5 %	0.6 %	0.4 %	0.9 %	0.2 %	0.4 %	0.1 %	0.1 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	100.000 %	0.000 ppb	0.000 ppb	100.000 %	0.000 ppb
Concentration per Run	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	100.000 %	0.000 ppb	0.000 ppb	100.000 %	0.000 ppb
Concentration RSD	0.4 %	0.4 %	0.0 %	0.4 %	0.1 %	0.3 %	1.0 %	0.0 %	0.1 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.000 ppb	100.000 %	100.000 %	0.000 ppb	0.000 ppb	100.000 %
Concentration per Run	0.000 ppb	100.000 %	100.000 %	0.000 ppb	0.000 ppb	100.000 %
Concentration RSD	0.2 %	0.0 %	0.0 %	0.5 %	0.1 %	0.0 %

Alpha ICPMSQ2 Data with SRD

3/6/2024 5:39:21 AM

Analysis index:	4	User name	ALPHALAB\a2-icpmsq2	Comment	<Comment>
Analysis label:	0.2/20 Cal	Rack	0		
Analysis started at:	3/5/2024 8:53:16 PM	Vial	2		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	105.065 %	102.806 %	0.216 ppb	N/A	23.256 ppb	N/A	N/A	N/A	101.859 %
Concentration per Run 1	104.380 %	96.046 %	0.220 ppb	N/A	24.307 ppb	N/A	N/A	N/A	101.060 %
Concentration per Run 2	105.168 %	103.316 %	0.204 ppb	N/A	18.107 ppb	N/A	N/A	N/A	101.749 %
Concentration per Run 3	105.648 %	109.056 %	0.225 ppb	N/A	27.353 ppb	N/A	N/A	N/A	102.767 %
Concentration RSD	0.6 %	6.3 %	5.1 %	N/A	20.3 %	N/A	N/A	N/A	0.8 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	N/A	N/A	0.228 ppb	21.460 ppb	0.180 ppb	N/A	N/A	N/A	101.699 %
Concentration per Run 1	N/A	N/A	0.359 ppb	17.922 ppb	0.195 ppb	N/A	N/A	N/A	96.749 %
Concentration per Run 2	N/A	N/A	0.129 ppb	30.713 ppb	0.188 ppb	N/A	N/A	N/A	99.697 %
Concentration per Run 3	N/A	N/A	0.195 ppb	15.745 ppb	0.156 ppb	N/A	N/A	N/A	108.651 %
Concentration RSD	N/A	N/A	52.2 %	37.7 %	11.4 %	N/A	N/A	N/A	6.1 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.155 ppb	N/A	0.249 ppb	N/A	102.075 %	0.189 ppb	0.220 ppb	102.976 %	N/A
Concentration per Run 1	0.039 ppb	N/A	0.243 ppb	N/A	99.004 %	0.185 ppb	0.234 ppb	96.559 %	N/A
Concentration per Run 2	0.285 ppb	N/A	0.250 ppb	N/A	100.512 %	0.199 ppb	0.206 ppb	99.382 %	N/A
Concentration per Run 3	0.140 ppb	N/A	0.253 ppb	N/A	106.709 %	0.182 ppb	0.221 ppb	112.987 %	N/A
Concentration RSD	79.8 %	N/A	2.1 %	N/A	4.0 %	4.9 %	6.4 %	8.5 %	N/A

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.162 ppb	103.226 %	103.310 %	N/A	0.185 ppb	100.873 %
Concentration per Run 1	0.251 ppb	99.240 %	97.432 %	N/A	0.185 ppb	97.307 %
Concentration per Run 2	0.071 ppb	100.151 %	99.810 %	N/A	0.188 ppb	100.837 %
Concentration per Run 3	0.163 ppb	110.288 %	112.689 %	N/A	0.182 ppb	104.476 %
Concentration RSD	55.6 %	5.9 %	7.9 %	N/A	1.4 %	3.6 %

Alpha ICPMSQ2 Data with SRD

3/6/2024 5:39:21 AM

Analysis index:	5	User name	ALPHALAB\a2-icpmsq2	Comment	<Comment>
Analysis label:	1/100 Cal	Rack	0		
Analysis started at:	3/5/2024 8:57:42 PM	Vial	3		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	99.751 %	102.551 %	1.054 ppb	86.591 ppb	94.694 ppb	1.201 ppb	102.816 ppb	135.213 ppb	91.562 %
Concentration per Run 1	99.695 %	91.837 %	1.057 ppb	98.387 ppb	97.267 ppb	0.930 ppb	103.824 ppb	97.463 ppb	90.973 %
Concentration per Run 2	99.793 %	106.378 %	1.097 ppb	77.581 ppb	88.589 ppb	1.210 ppb	106.004 ppb	124.143 ppb	91.524 %
Concentration per Run 3	99.766 %	109.439 %	1.007 ppb	83.805 ppb	98.228 ppb	1.462 ppb	98.620 ppb	184.034 ppb	92.188 %
Concentration RSD	0.1 %	9.2 %	4.3 %	12.3 %	5.6 %	22.2 %	3.7 %	32.8 %	0.7 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.968 ppb	1.954 ppb	1.083 ppb	103.586 ppb	0.995 ppb	1.425 ppb	1.045 ppb	0.646 ppb	98.714 %
Concentration per Run 1	0.891 ppb	2.065 ppb	1.027 ppb	100.792 ppb	1.101 ppb	1.498 ppb	1.063 ppb	0.672 ppb	97.636 %
Concentration per Run 2	1.030 ppb	2.061 ppb	1.144 ppb	95.991 ppb	0.941 ppb	1.447 ppb	1.003 ppb	0.651 ppb	102.993 %
Concentration per Run 3	0.982 ppb	1.736 ppb	1.079 ppb	113.976 ppb	0.942 ppb	1.330 ppb	1.070 ppb	0.616 ppb	95.514 %
Concentration RSD	7.3 %	9.7 %	5.4 %	9.0 %	9.3 %	6.0 %	3.5 %	4.4 %	3.9 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.970 ppb	0.846 ppb	0.992 ppb	1.049 ppb	97.979 %	0.956 ppb	1.030 ppb	99.168 %	0.968 ppb
Concentration per Run 1	1.032 ppb	0.822 ppb	0.990 ppb	0.962 ppb	97.607 %	1.001 ppb	0.984 ppb	98.930 %	0.937 ppb
Concentration per Run 2	0.913 ppb	0.837 ppb	0.941 ppb	1.086 ppb	103.783 %	0.943 ppb	1.072 ppb	101.840 %	0.970 ppb
Concentration per Run 3	0.965 ppb	0.878 ppb	1.045 ppb	1.099 ppb	92.547 %	0.924 ppb	1.035 ppb	96.734 %	0.998 ppb
Concentration RSD	6.2 %	3.5 %	5.2 %	7.2 %	5.7 %	4.2 %	4.3 %	2.6 %	3.2 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.891 ppb	97.648 %	99.436 %	0.848 ppb	0.966 ppb	95.817 %
Concentration per Run 1	0.709 ppb	95.899 %	96.905 %	0.848 ppb	0.963 ppb	95.809 %
Concentration per Run 2	0.944 ppb	101.450 %	103.353 %	0.839 ppb	0.970 ppb	99.742 %
Concentration per Run 3	1.020 ppb	95.595 %	98.050 %	0.857 ppb	0.966 ppb	91.900 %
Concentration RSD	18.2 %	3.4 %	3.5 %	1.1 %	0.3 %	4.1 %

Alpha ICPMSQ2 Data with SRD

3/6/2024 5:39:21 AM

Analysis index:	6	User name	ALPHALAB\a2-icpmsq2	Comment	<Comment>
Analysis label:	10/1000 Cal	Rack	0		
Analysis started at:	3/5/2024 9:02:09 PM	Vial	4		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	102.183 %	104.337 %	10.836 ppb	1,012.654 ppb	1,029.156 ppb	9.781 ppb	1,050.723 ppb	1,148.334 ppb	94.515 %
Concentration per Run 1	101.974 %	103.316 %	10.779 ppb	992.796 ppb	1,020.494 ppb	9.152 ppb	994.167 ppb	1,294.245 ppb	94.723 %
Concentration per Run 2	102.632 %	96.429 %	10.836 ppb	1,045.915 ppb	1,035.415 ppb	8.548 ppb	1,090.591 ppb	1,038.590 ppb	95.808 %
Concentration per Run 3	101.943 %	113.265 %	10.892 ppb	999.250 ppb	1,031.560 ppb	11.642 ppb	1,067.409 ppb	1,112.168 ppb	93.013 %
Concentration RSD	0.4 %	8.1 %	0.5 %	2.9 %	0.8 %	16.8 %	4.8 %	11.5 %	1.5 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	10.127 ppb	10.249 ppb	10.000 ppb	1,056.439 ppb	10.371 ppb	10.883 ppb	10.258 ppb	10.345 ppb	98.957 %
Concentration per Run 1	9.969 ppb	10.142 ppb	10.321 ppb	1,073.922 ppb	10.732 ppb	11.356 ppb	10.567 ppb	10.478 ppb	93.330 %
Concentration per Run 2	10.398 ppb	10.213 ppb	10.065 ppb	1,029.573 ppb	10.033 ppb	10.829 ppb	9.764 ppb	10.307 ppb	102.671 %
Concentration per Run 3	10.013 ppb	10.393 ppb	9.616 ppb	1,065.822 ppb	10.349 ppb	10.463 ppb	10.444 ppb	10.250 ppb	100.870 %
Concentration RSD	2.3 %	1.3 %	3.6 %	2.2 %	3.4 %	4.1 %	4.2 %	1.1 %	5.0 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	10.332 ppb	10.410 ppb	10.408 ppb	9.811 ppb	97.296 %	10.174 ppb	10.307 ppb	98.834 %	9.863 ppb
Concentration per Run 1	10.793 ppb	10.463 ppb	10.429 ppb	10.842 ppb	93.406 %	10.541 ppb	10.736 ppb	90.767 %	10.117 ppb
Concentration per Run 2	9.725 ppb	10.001 ppb	9.840 ppb	9.446 ppb	98.594 %	10.117 ppb	10.335 ppb	95.773 %	10.087 ppb
Concentration per Run 3	10.477 ppb	10.764 ppb	10.956 ppb	9.146 ppb	99.887 %	9.865 ppb	9.849 ppb	109.962 %	9.384 ppb
Concentration RSD	5.3 %	3.7 %	5.4 %	9.2 %	3.5 %	3.4 %	4.3 %	10.1 %	4.2 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	9.481 ppb	96.031 %	96.909 %	9.461 ppb	10.136 ppb	95.391 %
Concentration per Run 1	9.591 ppb	90.140 %	91.306 %	9.643 ppb	10.190 ppb	91.438 %
Concentration per Run 2	9.656 ppb	96.282 %	97.243 %	9.462 ppb	10.248 ppb	94.229 %
Concentration per Run 3	9.196 ppb	101.671 %	102.177 %	9.278 ppb	9.971 ppb	100.506 %
Concentration RSD	2.6 %	6.0 %	5.6 %	1.9 %	1.4 %	4.9 %

Alpha ICPMSQ2 Data with SRD

3/6/2024 5:39:21 AM

Analysis index:	7	User name	ALPHALAB\a2-icpmsq2	Comment	<Comment>
Analysis label:	60/6000 Cal	Rack	0		
Analysis started at:	3/5/2024 9:06:37 PM	Vial	5		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	101.484 %	101.403 %	61.243 ppb	6,103.650 ppb	6,087.504 ppb	59.387 ppb	6,081.093 ppb	6,181.497 ppb	98.888 %
Concentration per Run 1	100.405 %	83.801 %	61.878 ppb	6,908.267 ppb	6,897.220 ppb	65.149 ppb	6,845.820 ppb	6,547.927 ppb	98.804 %
Concentration per Run 2	102.189 %	108.674 %	60.581 ppb	5,690.882 ppb	5,846.443 ppb	53.298 ppb	5,624.157 ppb	5,862.435 ppb	97.728 %
Concentration per Run 3	101.859 %	111.735 %	61.271 ppb	5,711.801 ppb	5,518.849 ppb	59.714 ppb	5,773.302 ppb	6,134.127 ppb	100.133 %
Concentration RSD	0.9 %	15.1 %	1.1 %	11.4 %	11.8 %	10.0 %	11.0 %	5.6 %	1.2 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	60.982 ppb	59.477 ppb	60.221 ppb	6,008.079 ppb	59.703 ppb	59.975 ppb	59.069 ppb	59.800 ppb	100.971 %
Concentration per Run 1	64.015 ppb	63.390 ppb	62.111 ppb	6,301.710 ppb	63.021 ppb	64.102 ppb	60.882 ppb	62.191 ppb	97.221 %
Concentration per Run 2	58.929 ppb	57.008 ppb	58.017 ppb	5,852.862 ppb	57.344 ppb	56.579 ppb	57.642 ppb	57.201 ppb	103.680 %
Concentration per Run 3	60.004 ppb	58.032 ppb	60.533 ppb	5,869.664 ppb	58.745 ppb	59.244 ppb	58.684 ppb	60.008 ppb	102.011 %
Concentration RSD	4.4 %	5.8 %	3.4 %	4.2 %	5.0 %	6.4 %	2.8 %	4.2 %	3.3 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	59.426 ppb	58.084 ppb	58.465 ppb	58.553 ppb	96.273 %	59.981 ppb	59.375 ppb	97.132 %	58.897 ppb
Concentration per Run 1	61.992 ppb	60.780 ppb	59.526 ppb	59.860 ppb	91.812 %	60.648 ppb	60.022 ppb	93.599 %	59.029 ppb
Concentration per Run 2	57.565 ppb	57.870 ppb	57.156 ppb	57.332 ppb	97.665 %	59.285 ppb	59.138 ppb	97.180 %	59.366 ppb
Concentration per Run 3	58.720 ppb	55.604 ppb	58.712 ppb	58.468 ppb	99.344 %	60.012 ppb	58.965 ppb	100.616 %	58.296 ppb
Concentration RSD	3.9 %	4.5 %	2.1 %	2.2 %	4.1 %	1.1 %	1.0 %	3.6 %	0.9 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	58.648 ppb	91.609 %	89.991 %	57.454 ppb	58.808 ppb	95.927 %
Concentration per Run 1	58.359 ppb	87.920 %	86.857 %	57.182 ppb	58.874 ppb	92.586 %
Concentration per Run 2	59.149 ppb	93.484 %	90.144 %	57.076 ppb	58.698 ppb	96.538 %
Concentration per Run 3	58.438 ppb	93.423 %	92.971 %	58.103 ppb	58.852 ppb	98.656 %
Concentration RSD	0.7 %	3.5 %	3.4 %	1.0 %	0.2 %	3.2 %

Alpha ICPMSQ2 Data with SRD

3/6/2024 5:39:21 AM

Analysis index:	8	User name	ALPHALAB\a2-icpmsq2	Comment	<Comment>
Analysis label:	120/12000 Cal	Rack	0		
Analysis started at:	3/5/2024 9:11:05 PM	Vial	6		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	96.310 %	101.658 %	119.308 ppb	11,947.232 ppb	11,953.857 ppb	120.323 ppb	11,955.203 ppb	11,896.597 ppb	86.290 %
Concentration per Run 1	96.361 %	111.735 %	118.839 ppb	11,150.098 ppb	11,126.370 ppb	114.982 ppb	11,488.041 ppb	11,790.956 ppb	87.081 %
Concentration per Run 2	97.082 %	90.689 %	118.797 ppb	12,895.238 ppb	12,884.759 ppb	124.637 ppb	12,595.710 ppb	12,454.276 ppb	87.038 %
Concentration per Run 3	95.486 %	102.551 %	120.289 ppb	11,796.360 ppb	11,850.442 ppb	121.351 ppb	11,781.858 ppb	11,444.559 ppb	84.752 %
Concentration RSD	0.8 %	10.4 %	0.7 %	7.4 %	7.4 %	4.1 %	4.8 %	4.3 %	1.5 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	119.499 ppb	120.233 ppb	119.889 ppb	11,991.225 ppb	120.118 ppb	119.935 ppb	120.443 ppb	120.074 ppb	95.600 %
Concentration per Run 1	119.172 ppb	118.421 ppb	120.135 ppb	12,306.288 ppb	121.529 ppb	123.304 ppb	125.097 ppb	121.302 ppb	92.705 %
Concentration per Run 2	121.037 ppb	122.395 ppb	120.836 ppb	11,996.949 ppb	121.981 ppb	117.383 ppb	117.525 ppb	120.890 ppb	97.637 %
Concentration per Run 3	118.286 ppb	119.882 ppb	118.696 ppb	11,670.438 ppb	116.843 ppb	119.119 ppb	118.709 ppb	118.031 ppb	96.459 %
Concentration RSD	1.2 %	1.7 %	0.9 %	2.7 %	2.4 %	2.5 %	3.4 %	1.5 %	2.7 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	120.260 ppb	120.925 ppb	120.734 ppb	120.739 ppb	91.590 %	119.995 ppb	120.287 ppb	92.405 %	120.563 ppb
Concentration per Run 1	121.553 ppb	123.783 ppb	123.163 ppb	123.970 ppb	90.572 %	122.349 ppb	122.852 ppb	89.486 %	123.209 ppb
Concentration per Run 2	118.503 ppb	118.860 ppb	119.189 ppb	117.963 ppb	93.767 %	118.501 ppb	118.118 ppb	94.018 %	119.241 ppb
Concentration per Run 3	120.723 ppb	120.132 ppb	119.849 ppb	120.283 ppb	90.432 %	119.136 ppb	119.890 ppb	93.711 %	119.239 ppb
Concentration RSD	1.3 %	2.1 %	1.8 %	2.5 %	2.1 %	1.7 %	2.0 %	2.7 %	1.9 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	120.720 ppb	85.319 %	82.723 %	121.319 ppb	120.585 ppb	90.542 %
Concentration per Run 1	124.414 ppb	83.797 %	81.181 %	120.265 ppb	117.445 ppb	90.543 %
Concentration per Run 2	120.437 ppb	86.881 %	84.444 %	122.241 ppb	122.973 ppb	90.529 %
Concentration per Run 3	117.309 ppb	85.280 %	82.543 %	121.453 ppb	121.336 ppb	90.554 %
Concentration RSD	2.9 %	1.8 %	2.0 %	0.8 %	2.4 %	0.0 %

Alpha ICPMSQ2 Data with SRD

3/6/2024 5:39:21 AM

Analysis index:	9	User name	ALPHALAB\a2-icpmsq2	Comment	Sr Inteference Check
Analysis label:	Sr 200ppb	Rack	4		
Analysis started at:	3/5/2024 9:15:34 PM	Vial	55		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	96.629 %	94.133 %	0.004 ppb	-8.778 ppb	2.786 ppb	1.578 ppb	-7.203 ppb	-1,251.546 ppb	85.943 %
Concentration per Run 1	96.722 %	87.627 %	0.001 ppb	-8.083 ppb	4.133 ppb	1.214 ppb	-8.158 ppb	-1,316.999 ppb	85.406 %
Concentration per Run 2	96.102 %	96.046 %	-0.002 ppb	-7.610 ppb	2.660 ppb	2.138 ppb	-2.558 ppb	-1,180.519 ppb	85.327 %
Concentration per Run 3	97.063 %	98.724 %	0.012 ppb	-10.640 ppb	1.566 ppb	1.381 ppb	-10.892 ppb	-1,257.120 ppb	87.096 %
Concentration RSD	0.5 %	6.2 %	201.3 %	18.6 %	46.2 %	31.2 %	59.0 %	5.5 %	1.2 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.009 ppb	0.009 ppb	0.111 ppb	8.303 ppb	0.011 ppb	-0.024 ppb	0.017 ppb	0.081 ppb	92.101 %
Concentration per Run 1	-0.005 ppb	0.018 ppb	0.269 ppb	8.226 ppb	0.003 ppb	-0.042 ppb	-0.003 ppb	0.181 ppb	87.576 %
Concentration per Run 2	-0.058 ppb	-0.022 ppb	0.114 ppb	7.590 ppb	0.015 ppb	-0.042 ppb	0.063 ppb	0.046 ppb	92.933 %
Concentration per Run 3	0.035 ppb	0.030 ppb	-0.050 ppb	9.092 ppb	0.015 ppb	0.013 ppb	-0.010 ppb	0.015 ppb	95.795 %
Concentration RSD	495.4 %	304.5 %	143.6 %	9.1 %	64.4 %	135.3 %	237.0 %	109.2 %	4.5 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.051 ppb	-0.003 ppb	195.962 ppb	0.168 ppb	91.856 %	0.006 ppb	0.002 ppb	91.134 %	0.014 ppb
Concentration per Run 1	-0.011 ppb	0.021 ppb	198.058 ppb	0.134 ppb	91.813 %	0.005 ppb	0.000 ppb	87.230 %	-0.009 ppb
Concentration per Run 2	0.101 ppb	0.067 ppb	194.878 ppb	0.210 ppb	91.544 %	0.005 ppb	0.005 ppb	91.024 %	0.030 ppb
Concentration per Run 3	0.062 ppb	-0.096 ppb	194.950 ppb	0.161 ppb	92.211 %	0.008 ppb	0.000 ppb	95.149 %	0.021 ppb
Concentration RSD	111.9 %	3,296.6 %	0.9 %	22.9 %	0.4 %	25.6 %	143.3 %	4.3 %	142.9 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.005 ppb	92.335 %	91.651 %	0.512 ppb	0.007 ppb	88.128 %
Concentration per Run 1	0.022 ppb	87.366 %	87.711 %	0.384 ppb	0.012 ppb	85.028 %
Concentration per Run 2	-0.003 ppb	94.382 %	92.092 %	0.633 ppb	0.004 ppb	88.696 %
Concentration per Run 3	-0.004 ppb	95.258 %	95.151 %	0.518 ppb	0.005 ppb	90.660 %
Concentration RSD	311.4 %	4.7 %	4.1 %	24.4 %	63.8 %	3.2 %

Alpha ICPMSQ2 Data with SRD

3/6/2024 5:39:21 AM

Analysis index:	10	User name	ALPHALAB\a2-icpmsq2	Comment	ICV
Analysis label:	ICV	Rack	0		
Analysis started at:	3/5/2024 9:20:04 PM	Vial	7		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	96.406 %	105.612 %	50.855 ppb	4,824.019 ppb	4,870.656 ppb	50.654 ppb	4,979.606 ppb	5,053.509 ppb	85.023 %
Concentration per Run 1	95.794 %	110.969 %	50.776 ppb	4,570.201 ppb	4,658.248 ppb	47.162 ppb	4,870.290 ppb	5,025.056 ppb	82.231 %
Concentration per Run 2	95.990 %	105.230 %	50.736 ppb	4,860.923 ppb	4,931.934 ppb	49.878 ppb	5,003.095 ppb	5,092.853 ppb	82.925 %
Concentration per Run 3	97.434 %	100.638 %	51.053 ppb	5,040.932 ppb	5,021.785 ppb	54.924 ppb	5,065.435 ppb	5,042.617 ppb	89.913 %
Recovery Percentage 1			101.710 %	96.480 %	97.413 %	101.309 %	99.592 %	101.070 %	
Concentration RSD	0.9 %	4.9 %	0.3 %	4.9 %	3.9 %	7.8 %	2.0 %	0.7 %	5.0 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	51.143 ppb	49.719 ppb	50.670 ppb	5,147.190 ppb	51.513 ppb	51.727 ppb	64.654 ppb	52.314 ppb	95.118 %
Concentration per Run 1	49.277 ppb	48.411 ppb	47.691 ppb	4,955.521 ppb	50.349 ppb	51.024 ppb	64.537 ppb	52.368 ppb	94.375 %
Concentration per Run 2	52.253 ppb	51.311 ppb	52.390 ppb	5,409.656 ppb	52.120 ppb	52.911 ppb	65.535 ppb	53.694 ppb	92.262 %
Concentration per Run 3	51.898 ppb	49.434 ppb	51.927 ppb	5,076.392 ppb	52.069 ppb	51.247 ppb	63.891 ppb	50.882 ppb	98.716 %
Recovery Percentage 1	102.286 %	99.437 %	101.339 %	102.944 %	103.026 %	103.454 %	129.309 %	104.629 %	
Concentration RSD	3.2 %	3.0 %	5.1 %	4.6 %	2.0 %	2.0 %	1.3 %	2.7 %	3.5 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	51.657 ppb	50.500 ppb	49.669 ppb	49.922 ppb	96.107 %	48.575 ppb	49.456 ppb	96.023 %	49.729 ppb
Concentration per Run 1	50.096 ppb	49.966 ppb	49.087 ppb	48.747 ppb	94.411 %	48.507 ppb	50.479 ppb	92.699 %	49.641 ppb
Concentration per Run 2	52.990 ppb	51.560 ppb	50.415 ppb	50.574 ppb	97.974 %	48.506 ppb	48.826 ppb	97.933 %	49.272 ppb
Concentration per Run 3	51.885 ppb	49.974 ppb	49.505 ppb	50.444 ppb	95.937 %	48.713 ppb	49.062 ppb	97.438 %	50.273 ppb
Recovery Percentage 1	103.314 %	101.000 %	99.338 %	99.843 %		97.151 %	98.911 %		99.457 %
Concentration RSD	2.8 %	1.8 %	1.4 %	2.0 %	1.9 %	0.2 %	1.8 %	3.0 %	1.0 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	47.581 ppb	91.865 %	90.427 %	47.662 ppb	49.426 ppb	94.964 %
Concentration per Run 1	47.130 ppb	89.889 %	86.610 %	46.831 ppb	48.655 ppb	94.176 %
Concentration per Run 2	46.508 ppb	93.657 %	92.086 %	47.825 ppb	49.640 ppb	94.915 %
Concentration per Run 3	49.106 ppb	92.050 %	92.586 %	48.329 ppb	49.981 ppb	95.800 %
Recovery Percentage 1	95.163 %			95.324 %	98.851 %	
Concentration RSD	2.9 %	2.1 %	3.7 %	1.6 %	1.4 %	0.9 %

Alpha ICPMSQ2 Data with SRD

3/6/2024 5:39:21 AM

Analysis index:	11	User name	ALPHALAB\a2-icpmsq2	Comment	ICB
Analysis label:	ICB	Rack	0		
Analysis started at:	3/5/2024 9:24:34 PM	Vial	10		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	97.140 %	92.730 %	0.001 ppb	-6.683 ppb	-0.934 ppb	-0.169 ppb	0.452 ppb	-5.141 ppb	89.819 %
Concentration per Run 1	96.908 %	85.714 %	0.002 ppb	-2.326 ppb	-0.166 ppb	0.041 ppb	-10.993 ppb	3.881 ppb	89.191 %
Concentration per Run 2	96.808 %	94.133 %	-0.003 ppb	-9.961 ppb	-0.811 ppb	-0.606 ppb	6.418 ppb	-13.228 ppb	89.792 %
Concentration per Run 3	97.706 %	98.342 %	0.005 ppb	-7.761 ppb	-1.824 ppb	0.057 ppb	5.930 ppb	-6.077 ppb	90.473 %
Recovery Percentage 1			0.248 %	-6.683 %	-1.334 %	-1.692 %	0.452 %	-5.141 %	
Concentration RSD	0.5 %	6.9 %	317.3 %	58.8 %	89.5 %	223.6 %	2,194.9 %	167.1 %	0.7 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.026 ppb	0.010 ppb	-0.013 ppb	7.019 ppb	0.000 ppb	-0.117 ppb	0.009 ppb	-0.256 ppb	90.438 %
Concentration per Run 1	-0.083 ppb	0.020 ppb	-0.007 ppb	6.422 ppb	-0.004 ppb	-0.085 ppb	-0.001 ppb	-0.246 ppb	86.102 %
Concentration per Run 2	-0.009 ppb	0.006 ppb	-0.047 ppb	8.906 ppb	-0.004 ppb	-0.108 ppb	0.036 ppb	-0.247 ppb	92.346 %
Concentration per Run 3	0.013 ppb	0.005 ppb	0.016 ppb	5.729 ppb	0.009 ppb	-0.158 ppb	-0.008 ppb	-0.276 ppb	92.867 %
Recovery Percentage 1	-0.522 %	1.043 %	-1.268 %	14.038 %	0.038 %	-5.850 %	0.890 %	-5.128 %	
Concentration RSD	191.9 %	76.0 %	253.0 %	23.8 %	3,936.6 %	31.8 %	263.6 %	6.6 %	4.2 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.034 ppb	-0.018 ppb	-0.005 ppb	0.151 ppb	93.386 %	0.003 ppb	-0.005 ppb	93.866 %	0.003 ppb
Concentration per Run 1	0.084 ppb	-0.057 ppb	-0.006 ppb	0.088 ppb	90.430 %	0.002 ppb	-0.005 ppb	89.589 %	-0.013 ppb
Concentration per Run 2	-0.017 ppb	0.116 ppb	-0.010 ppb	0.128 ppb	95.082 %	0.006 ppb	-0.005 ppb	96.497 %	0.018 ppb
Concentration per Run 3	0.036 ppb	-0.114 ppb	0.000 ppb	0.235 ppb	94.647 %	0.001 ppb	-0.005 ppb	95.512 %	0.004 ppb
Recovery Percentage 1	6.837 %	-0.365 %	-0.052 %	7.530 %		0.789 %	-2.271 %		0.078 %
Concentration RSD	148.4 %	654.6 %	95.0 %	50.4 %	2.8 %	95.2 %	0.0 %	4.0 %	493.3 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	-0.017 ppb	93.118 %	93.484 %	0.355 ppb	0.012 ppb	90.479 %
Concentration per Run 1	-0.001 ppb	88.586 %	88.527 %	0.265 ppb	0.010 ppb	89.670 %
Concentration per Run 2	-0.025 ppb	94.157 %	95.587 %	0.435 ppb	0.010 ppb	90.336 %
Concentration per Run 3	-0.025 ppb	96.610 %	96.338 %	0.364 ppb	0.015 ppb	91.430 %
Recovery Percentage 1	-3.391 %			35.468 %	1.160 %	
Concentration RSD	79.0 %	4.4 %	4.6 %	24.2 %	22.7 %	1.0 %

Alpha ICPMSQ2 Data with SRD

3/6/2024 5:39:21 AM

Analysis index:	12	User name	ALPHALAB\a2-icpmsq2	Comment	<Comment>
Analysis label:	ICSA	Rack	4		
Analysis started at:	3/5/2024 9:31:06 PM	Vial	53		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	101.037 %	107.015 %	0.009 ppb	47,985.002 ppb	19,640.956 ppb	17,202.483 ppb	19,956.670 ppb	61,250.853 ppb	79.422 %
Concentration per Run 1	100.422 %	114.796 %	0.011 ppb	44,759.715 ppb	18,280.215 ppb	15,952.798 ppb	19,068.580 ppb	58,483.465 ppb	79.245 %
Concentration per Run 2	100.721 %	102.934 %	0.008 ppb	49,989.697 ppb	20,426.194 ppb	18,140.525 ppb	21,040.191 ppb	64,604.458 ppb	79.310 %
Concentration per Run 3	101.968 %	103.316 %	0.007 ppb	49,205.595 ppb	20,216.458 ppb	17,514.126 ppb	19,761.238 ppb	60,664.635 ppb	79.711 %
Recovery Percentage 1			1.732 %	95.970 %	98.205 %	86.012 %	99.783 %	102.085 %	
Concentration RSD	0.8 %	6.3 %	28.0 %	5.9 %	6.0 %	6.5 %	5.0 %	5.1 %	0.3 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.017 ppb	0.357 ppb	0.958 ppb	49,775.005 ppb	0.436 ppb	0.365 ppb	0.195 ppb	0.337 ppb	101.280 %
Concentration per Run 1	-0.041 ppb	0.291 ppb	0.811 ppb	46,911.001 ppb	0.391 ppb	0.324 ppb	0.106 ppb	0.163 ppb	106.202 %
Concentration per Run 2	-0.035 ppb	0.400 ppb	1.131 ppb	53,154.556 ppb	0.479 ppb	0.383 ppb	0.231 ppb	0.411 ppb	92.346 %
Concentration per Run 3	0.026 ppb	0.379 ppb	0.932 ppb	49,259.458 ppb	0.438 ppb	0.387 ppb	0.248 ppb	0.437 ppb	105.293 %
Recovery Percentage 1	-0.668 %	35.699 %	95.767 %	99.550 %	87.181 %	18.243 %	19.478 %	6.740 %	
Concentration RSD	222.2 %	16.2 %	16.9 %	6.3 %	10.1 %	9.6 %	39.8 %	44.9 %	7.7 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.125 ppb	0.530 ppb	0.488 ppb	406.523 ppb	99.141 %	0.007 ppb	0.082 ppb	101.875 %	0.030 ppb
Concentration per Run 1	0.081 ppb	0.440 ppb	0.485 ppb	386.912 ppb	97.841 %	0.005 ppb	0.080 ppb	102.241 %	0.006 ppb
Concentration per Run 2	0.155 ppb	0.553 ppb	0.514 ppb	426.794 ppb	99.269 %	0.009 ppb	0.079 ppb	102.508 %	0.033 ppb
Concentration per Run 3	0.140 ppb	0.597 ppb	0.466 ppb	405.863 ppb	100.312 %	0.006 ppb	0.089 ppb	100.877 %	0.050 ppb
Recovery Percentage 1	25.069 %	10.596 %	97.616 %	101.631 %		1.637 %	41.226 %		0.738 %
Concentration RSD	31.3 %	15.3 %	4.9 %	4.9 %	1.3 %	32.1 %	6.5 %	0.9 %	75.9 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.372 ppb	71.381 %	67.568 %	0.109 ppb	0.413 ppb	100.019 %
Concentration per Run 1	0.472 ppb	69.578 %	65.588 %	0.068 ppb	0.403 ppb	100.124 %
Concentration per Run 2	0.331 ppb	72.178 %	67.270 %	0.124 ppb	0.410 ppb	99.304 %
Concentration per Run 3	0.312 ppb	72.388 %	69.847 %	0.136 ppb	0.425 ppb	100.630 %
Recovery Percentage 1	74.378 %			10.921 %	41.272 %	
Concentration RSD	23.6 %	2.2 %	3.2 %	33.1 %	2.6 %	0.7 %

Alpha ICPMSQ2 Data with SRD

3/6/2024 5:39:21 AM

Analysis index:	13	User name	ALPHALAB\a2-icpmsq2	Comment	<Comment>
Analysis label:	LDR Check 1ppm	Rack	4		
Analysis started at:	3/5/2024 9:35:36 PM	Vial	1		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	101.688 %	96.684 %	0.002 ppb	3.594 ppb	2.554 ppb	3.865 ppb	-2.033 ppb	10.743 ppb	99.000 %
Concentration per Run 1	102.034 %	88.775 %	0.000 ppb	7.627 ppb	3.367 ppb	3.817 ppb	-1.984 ppb	16.137 ppb	99.225 %
Concentration per Run 2	101.239 %	92.985 %	0.002 ppb	2.294 ppb	2.133 ppb	4.401 ppb	-4.712 ppb	7.294 ppb	98.959 %
Concentration per Run 3	101.790 %	108.291 %	0.003 ppb	0.860 ppb	2.160 ppb	3.375 ppb	0.596 ppb	8.800 ppb	98.816 %
Concentration RSD	0.4 %	10.6 %	95.6 %	99.2 %	27.6 %	13.3 %	130.5 %	44.0 %	0.2 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.008 ppb	0.076 ppb	1,077.759 ppb	17.910 ppb	0.057 ppb	-0.027 ppb	1,065.748 ppb	1,077.056 ppb	102.248 %
Concentration per Run 1	-0.035 ppb	0.079 ppb	1,105.247 ppb	20.366 ppb	0.033 ppb	-0.010 ppb	1,102.273 ppb	1,105.029 ppb	98.657 %
Concentration per Run 2	0.008 ppb	0.046 ppb	1,077.495 ppb	17.020 ppb	0.049 ppb	-0.030 ppb	1,067.484 ppb	1,075.052 ppb	104.034 %
Concentration per Run 3	0.004 ppb	0.102 ppb	1,050.533 ppb	16.343 ppb	0.088 ppb	-0.041 ppb	1,027.486 ppb	1,051.086 ppb	104.054 %
Concentration RSD	304.7 %	37.1 %	2.5 %	12.0 %	49.2 %	59.2 %	3.5 %	2.5 %	3.0 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.018 ppb	-0.003 ppb	0.026 ppb	0.576 ppb	101.127 %	0.010 ppb	0.007 ppb	99.909 %	-0.017 ppb
Concentration per Run 1	0.077 ppb	0.000 ppb	0.032 ppb	0.550 ppb	97.196 %	0.014 ppb	0.005 ppb	92.947 %	-0.034 ppb
Concentration per Run 2	0.018 ppb	-0.050 ppb	0.021 ppb	0.664 ppb	101.566 %	0.007 ppb	0.004 ppb	101.345 %	0.001 ppb
Concentration per Run 3	-0.040 ppb	0.040 ppb	0.026 ppb	0.512 ppb	104.618 %	0.010 ppb	0.012 ppb	105.436 %	-0.016 ppb
Concentration RSD	324.9 %	1,351.4 %	20.2 %	13.8 %	3.7 %	31.6 %	63.0 %	6.4 %	106.9 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	962.150 ppb	102.012 %	102.272 %	0.046 ppb	957.052 ppb	99.876 %
Concentration per Run 1	949.516 ppb	96.999 %	96.192 %	0.012 ppb	944.003 ppb	97.627 %
Concentration per Run 2	961.064 ppb	104.281 %	104.736 %	0.068 ppb	976.454 ppb	98.525 %
Concentration per Run 3	975.870 ppb	104.755 %	105.889 %	0.060 ppb	950.700 ppb	103.476 %
Concentration RSD	1.4 %	4.3 %	5.2 %	65.4 %	1.8 %	3.2 %

Alpha ICPMSQ2 Data with SRD

3/6/2024 5:39:21 AM

Analysis index:	14	User name	ALPHALAB\a2-icpmsq2	Comment	<Comment>
Analysis label:	Rinse	Rack	0		
Analysis started at:	3/5/2024 9:40:05 PM	Vial	1		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	102.566 %	95.536 %	0.017 ppb	5.392 ppb	4.208 ppb	0.917 ppb	3.717 ppb	16.246 ppb	97.236 %
Concentration per Run 1	102.344 %	85.332 %	0.020 ppb	11.003 ppb	3.000 ppb	1.325 ppb	1.900 ppb	9.127 ppb	97.036 %
Concentration per Run 2	102.149 %	104.082 %	0.014 ppb	1.502 ppb	4.127 ppb	1.374 ppb	5.472 ppb	9.703 ppb	97.850 %
Concentration per Run 3	103.204 %	97.194 %	0.018 ppb	3.672 ppb	5.496 ppb	0.051 ppb	3.779 ppb	29.909 ppb	96.822 %
Concentration RSD	0.5 %	9.9 %	18.7 %	92.3 %	29.7 %	81.8 %	48.1 %	72.9 %	0.6 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.003 ppb	0.018 ppb	0.215 ppb	12.318 ppb	0.016 ppb	0.215 ppb	0.228 ppb	2.657 ppb	99.010 %
Concentration per Run 1	0.039 ppb	-0.001 ppb	0.081 ppb	8.734 ppb	0.002 ppb	0.448 ppb	0.169 ppb	3.048 ppb	97.356 %
Concentration per Run 2	0.006 ppb	0.012 ppb	0.271 ppb	14.530 ppb	0.002 ppb	-0.033 ppb	0.268 ppb	2.382 ppb	102.386 %
Concentration per Run 3	-0.036 ppb	0.043 ppb	0.293 ppb	13.690 ppb	0.045 ppb	0.229 ppb	0.247 ppb	2.543 ppb	97.290 %
Concentration RSD	1,242.3 %	123.9 %	54.2 %	25.4 %	151.9 %	112.3 %	22.8 %	13.1 %	3.0 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	-0.002 ppb	0.043 ppb	0.026 ppb	0.137 ppb	100.500 %	0.017 ppb	0.015 ppb	101.271 %	0.007 ppb
Concentration per Run 1	-0.003 ppb	0.026 ppb	0.043 ppb	0.035 ppb	96.324 %	0.011 ppb	0.014 ppb	97.461 %	-0.002 ppb
Concentration per Run 2	0.010 ppb	-0.048 ppb	0.020 ppb	0.158 ppb	102.781 %	0.028 ppb	0.004 ppb	103.069 %	0.008 ppb
Concentration per Run 3	-0.013 ppb	0.149 ppb	0.015 ppb	0.218 ppb	102.395 %	0.013 ppb	0.026 ppb	103.283 %	0.015 ppb
Concentration RSD	602.2 %	234.6 %	58.3 %	67.9 %	3.6 %	54.4 %	74.4 %	3.3 %	126.6 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.061 ppb	102.575 %	102.635 %	0.038 ppb	0.076 ppb	99.781 %
Concentration per Run 1	-0.005 ppb	97.246 %	97.603 %	0.005 ppb	0.072 ppb	98.359 %
Concentration per Run 2	0.066 ppb	105.512 %	106.380 %	0.054 ppb	0.081 ppb	102.626 %
Concentration per Run 3	0.122 ppb	104.968 %	103.923 %	0.053 ppb	0.074 ppb	98.358 %
Concentration RSD	104.5 %	4.5 %	4.4 %	74.0 %	5.7 %	2.5 %

Alpha ICPMSQ2 Data with SRD

3/6/2024 5:39:21 AM

Analysis index:	15	User name	ALPHALAB\a2-icpmsq2	Comment	CCV/MCCV
Analysis label:	CCV	Rack	0		
Analysis started at:	3/5/2024 9:44:31 PM	Vial	9		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	106.613 %	111.352 %	61.323 ppb	6,014.830 ppb	6,002.036 ppb	61.545 ppb	6,155.353 ppb	6,310.475 ppb	102.455 %
Concentration per Run 1	106.644 %	115.944 %	61.873 ppb	6,020.349 ppb	6,049.931 ppb	66.602 ppb	6,410.227 ppb	6,569.541 ppb	103.057 %
Concentration per Run 2	106.742 %	110.587 %	61.061 ppb	5,991.329 ppb	5,950.660 ppb	59.003 ppb	5,990.376 ppb	6,110.911 ppb	102.694 %
Concentration per Run 3	106.453 %	107.526 %	61.036 ppb	6,032.811 ppb	6,005.517 ppb	59.032 ppb	6,065.455 ppb	6,250.973 ppb	101.615 %
Recovery Percentage 1			102.205 %	100.247 %	100.034 %	102.576 %	102.589 %	105.175 %	
Concentration RSD	0.1 %	3.8 %	0.8 %	0.4 %	0.8 %	7.1 %	3.6 %	3.7 %	0.7 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	60.226 ppb	60.124 ppb	60.037 ppb	6,040.172 ppb	60.299 ppb	59.965 ppb	60.742 ppb	61.498 ppb	108.408 %
Concentration per Run 1	59.085 ppb	60.927 ppb	60.488 ppb	6,014.781 ppb	60.411 ppb	60.854 ppb	61.142 ppb	61.368 ppb	108.082 %
Concentration per Run 2	59.528 ppb	58.825 ppb	58.493 ppb	5,892.088 ppb	59.317 ppb	58.867 ppb	60.003 ppb	60.168 ppb	109.463 %
Concentration per Run 3	62.066 ppb	60.620 ppb	61.129 ppb	6,213.647 ppb	61.169 ppb	60.174 ppb	61.081 ppb	62.958 ppb	107.678 %
Recovery Percentage 1	100.377 %	100.206 %	100.061 %	100.670 %	100.499 %	99.942 %	101.236 %	102.497 %	
Concentration RSD	2.7 %	1.9 %	2.3 %	2.7 %	1.5 %	1.7 %	1.1 %	2.3 %	0.9 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	60.932 ppb	63.710 ppb	61.532 ppb	59.444 ppb	105.128 %	59.775 ppb	59.560 ppb	106.662 %	57.005 ppb
Concentration per Run 1	62.007 ppb	63.845 ppb	64.767 ppb	59.588 ppb	106.712 %	59.018 ppb	59.427 ppb	110.911 %	57.688 ppb
Concentration per Run 2	60.153 ppb	63.869 ppb	60.064 ppb	61.297 ppb	105.114 %	60.124 ppb	59.824 ppb	106.952 %	56.703 ppb
Concentration per Run 3	60.637 ppb	63.418 ppb	59.766 ppb	57.446 ppb	103.558 %	60.182 ppb	59.430 ppb	102.124 %	56.624 ppb
Recovery Percentage 1	101.554 %	106.184 %	102.554 %	99.073 %		99.625 %	99.267 %		95.008 %
Concentration RSD	1.6 %	0.4 %	4.6 %	3.2 %	1.5 %	1.1 %	0.4 %	4.1 %	1.0 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	58.788 ppb	99.012 %	95.999 %	59.878 ppb	61.186 ppb	101.079 %
Concentration per Run 1	60.801 ppb	100.257 %	97.416 %	58.936 ppb	59.762 ppb	103.130 %
Concentration per Run 2	58.256 ppb	100.430 %	97.031 %	60.586 ppb	62.408 ppb	100.011 %
Concentration per Run 3	57.308 ppb	96.349 %	93.551 %	60.111 ppb	61.388 ppb	100.097 %
Recovery Percentage 1	97.981 %			99.796 %	101.977 %	
Concentration RSD	3.1 %	2.3 %	2.2 %	1.4 %	2.2 %	1.8 %

Alpha ICPMSQ2 Data with SRD

3/6/2024 5:39:21 AM

Analysis index:	16	User name	ALPHALAB\a2-icpmsq2	Comment	CCB
Analysis label:	CCB	Rack	0		
Analysis started at:	3/5/2024 9:49:01 PM	Vial	10		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	101.912 %	104.975 %	0.001 ppb	-6.664 ppb	-0.316 ppb	-0.070 ppb	5.141 ppb	-1.441 ppb	99.031 %
Concentration per Run 1	101.562 %	99.490 %	0.001 ppb	-2.951 ppb	-0.420 ppb	-0.125 ppb	14.220 ppb	10.065 ppb	99.170 %
Concentration per Run 2	102.767 %	114.413 %	-0.002 ppb	-11.153 ppb	-0.100 ppb	0.170 ppb	-3.655 ppb	-7.293 ppb	99.559 %
Concentration per Run 3	101.408 %	101.020 %	0.004 ppb	-5.887 ppb	-0.427 ppb	-0.256 ppb	4.859 ppb	-7.094 ppb	98.363 %
Recovery Percentage 1			0.203 %	-6.664 %	-0.451 %	-0.700 %	5.141 %	-1.441 %	
Concentration RSD	0.7 %	7.8 %	325.8 %	62.4 %	59.1 %	311.9 %	173.9 %	691.7 %	0.6 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.031 ppb	-0.001 ppb	0.132 ppb	8.175 ppb	0.008 ppb	-0.063 ppb	-0.010 ppb	-0.308 ppb	102.891 %
Concentration per Run 1	-0.039 ppb	0.017 ppb	0.091 ppb	9.890 ppb	0.007 ppb	0.019 ppb	0.009 ppb	-0.326 ppb	106.483 %
Concentration per Run 2	-0.039 ppb	-0.025 ppb	0.183 ppb	2.940 ppb	0.020 ppb	0.013 ppb	-0.012 ppb	-0.185 ppb	98.070 %
Concentration per Run 3	-0.016 ppb	0.006 ppb	0.123 ppb	11.695 ppb	-0.004 ppb	-0.222 ppb	-0.027 ppb	-0.413 ppb	104.120 %
Recovery Percentage 1	-0.627 %	-0.066 %	13.225 %	16.350 %	1.527 %	-3.154 %	-1.002 %	-6.159 %	
Concentration RSD	41.2 %	3,354.7 %	35.6 %	56.5 %	155.0 %	218.3 %	183.1 %	37.4 %	4.2 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.028 ppb	0.050 ppb	-0.008 ppb	0.107 ppb	101.791 %	0.001 ppb	-0.002 ppb	102.542 %	0.105 ppb
Concentration per Run 1	0.014 ppb	0.159 ppb	-0.009 ppb	0.087 ppb	102.412 %	0.000 ppb	-0.005 ppb	107.425 %	0.106 ppb
Concentration per Run 2	-0.004 ppb	0.015 ppb	-0.012 ppb	0.075 ppb	103.097 %	0.003 ppb	0.004 ppb	100.441 %	0.136 ppb
Concentration per Run 3	0.075 ppb	-0.024 ppb	-0.005 ppb	0.161 ppb	99.863 %	0.000 ppb	-0.005 ppb	99.761 %	0.071 ppb
Recovery Percentage 1	5.697 %	0.999 %	-0.085 %	5.369 %		0.337 %	-0.802 %		2.614 %
Concentration RSD	146.0 %	192.2 %	41.2 %	43.3 %	1.7 %	117.3 %	317.1 %	4.1 %	31.2 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	-0.007 ppb	101.980 %	103.014 %	0.292 ppb	0.015 ppb	99.108 %
Concentration per Run 1	-0.008 ppb	102.333 %	105.688 %	0.185 ppb	0.009 ppb	100.868 %
Concentration per Run 2	0.012 ppb	102.453 %	101.783 %	0.383 ppb	0.014 ppb	97.569 %
Concentration per Run 3	-0.026 ppb	101.156 %	101.570 %	0.307 ppb	0.023 ppb	98.885 %
Recovery Percentage 1	-1.427 %			29.189 %	1.534 %	
Concentration RSD	265.9 %	0.7 %	2.3 %	34.2 %	46.9 %	1.7 %

Alpha ICPMSQ2 Data with SRD

3/6/2024 5:39:21 AM

Analysis index:	17	User name	ALPHALAB\a2-icpmsq2	Comment	<Comment>
Analysis label:	WG1891954-1D2 A2-6020T	Rack	2		
Analysis started at:	3/5/2024 9:55:15 PM	Vial	49		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	104.760 %	108.163 %	0.047 ppb	41,014.946 ppb	1,291.256 ppb	1,232.253 ppb	1,271.997 ppb	3,287.328 ppb	89.931 %
Concentration per Run 1	103.819 %	115.179 %	0.058 ppb	38,185.969 ppb	1,168.825 ppb	1,123.351 ppb	1,105.594 ppb	3,062.434 ppb	88.780 %
Concentration per Run 2	105.206 %	106.378 %	0.046 ppb	41,598.352 ppb	1,332.329 ppb	1,250.247 ppb	1,316.449 ppb	3,101.280 ppb	90.955 %
Concentration per Run 3	105.255 %	102.934 %	0.038 ppb	43,260.517 ppb	1,372.614 ppb	1,323.159 ppb	1,393.950 ppb	3,698.271 ppb	90.060 %
Concentration RSD	0.8 %	5.8 %	21.2 %	6.3 %	8.4 %	8.2 %	11.7 %	10.8 %	1.2 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.107 ppb	2.009 ppb	1.250 ppb	48.790 ppb	0.053 ppb	0.289 ppb	3.038 ppb	7.219 ppb	108.268 %
Concentration per Run 1	0.150 ppb	1.909 ppb	0.969 ppb	42.870 ppb	0.036 ppb	0.258 ppb	2.979 ppb	7.516 ppb	103.427 %
Concentration per Run 2	0.080 ppb	1.960 ppb	0.998 ppb	47.556 ppb	0.055 ppb	0.312 ppb	3.135 ppb	6.872 ppb	114.461 %
Concentration per Run 3	0.090 ppb	2.158 ppb	1.783 ppb	55.946 ppb	0.070 ppb	0.297 ppb	3.000 ppb	7.270 ppb	106.916 %
Concentration RSD	35.6 %	6.5 %	36.9 %	13.6 %	32.0 %	9.6 %	2.8 %	4.5 %	5.2 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	-0.004 ppb	-0.015 ppb	6.316 ppb	0.117 ppb	102.910 %	0.463 ppb	-0.002 ppb	105.814 %	0.093 ppb
Concentration per Run 1	-0.030 ppb	0.002 ppb	6.105 ppb	0.059 ppb	103.019 %	0.476 ppb	0.000 ppb	103.178 %	0.080 ppb
Concentration per Run 2	0.004 ppb	-0.031 ppb	6.214 ppb	0.219 ppb	103.051 %	0.446 ppb	-0.005 ppb	106.899 %	0.070 ppb
Concentration per Run 3	0.014 ppb	-0.016 ppb	6.629 ppb	0.073 ppb	102.659 %	0.467 ppb	0.000 ppb	107.366 %	0.128 ppb
Concentration RSD	547.4 %	109.1 %	4.4 %	75.8 %	0.2 %	3.3 %	145.9 %	2.2 %	33.3 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	5.865 ppb	93.068 %	91.106 %	0.058 ppb	0.492 ppb	103.270 %
Concentration per Run 1	6.113 ppb	92.024 %	89.865 %	0.012 ppb	0.493 ppb	105.430 %
Concentration per Run 2	5.657 ppb	93.049 %	90.401 %	0.079 ppb	0.499 ppb	102.361 %
Concentration per Run 3	5.825 ppb	94.130 %	93.053 %	0.081 ppb	0.485 ppb	102.019 %
Concentration RSD	3.9 %	1.1 %	1.9 %	68.0 %	1.4 %	1.8 %

Alpha ICPMSQ2 Data with SRD

3/6/2024 5:39:21 AM

Analysis index: 18
Analysis label: WG1891954-2d10 A2-6020T
Analysis started at: 3/5/2024 9:59:43 PM
User name ALPHALAB\a2-icpmsq2
Rack 2
Vial 50
Comment <Comment>

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	102.860 %	100.128 %	10.696 ppb	10,944.672 ppb	2,329.225 ppb	705.429 ppb	2,362.147 ppb	1,728.925 ppb	91.863 %
Concentration per Run 1	101.798 %	99.107 %	10.739 ppb	11,151.002 ppb	2,328.158 ppb	709.333 ppb	2,532.649 ppb	1,858.471 ppb	91.147 %
Concentration per Run 2	102.818 %	94.515 %	10.636 ppb	10,826.790 ppb	2,320.248 ppb	699.184 ppb	2,200.409 ppb	1,410.642 ppb	91.970 %
Concentration per Run 3	103.965 %	106.760 %	10.713 ppb	10,856.222 ppb	2,339.269 ppb	707.769 ppb	2,353.383 ppb	1,917.662 ppb	92.472 %
Concentration RSD	1.1 %	6.2 %	0.5 %	1.6 %	0.4 %	0.8 %	7.0 %	16.0 %	0.7 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	101.789 ppb	41.356 ppb	103.792 ppb	212.844 ppb	100.280 ppb	102.663 ppb	51.281 ppb	102.751 ppb	102.848 %
Concentration per Run 1	102.903 ppb	41.952 ppb	107.918 ppb	216.188 ppb	104.333 ppb	105.238 ppb	53.248 ppb	105.628 ppb	100.747 %
Concentration per Run 2	98.632 ppb	39.873 ppb	98.583 ppb	201.403 ppb	95.172 ppb	97.975 ppb	48.337 ppb	96.796 ppb	105.299 %
Concentration per Run 3	103.832 ppb	42.243 ppb	104.874 ppb	220.941 ppb	101.335 ppb	104.777 ppb	52.258 ppb	105.829 ppb	102.498 %
Concentration RSD	2.7 %	3.1 %	4.6 %	4.8 %	4.7 %	4.0 %	5.1 %	5.0 %	2.2 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	15.913 ppb	23.911 ppb	198.910 ppb	195.745 ppb	102.230 %	9.786 ppb	10.680 ppb	102.302 %	29.142 ppb
Concentration per Run 1	17.916 ppb	24.283 ppb	199.254 ppb	195.453 ppb	102.917 %	9.736 ppb	10.301 ppb	101.380 %	28.815 ppb
Concentration per Run 2	14.797 ppb	21.914 ppb	194.164 ppb	194.016 ppb	99.951 %	10.063 ppb	11.091 ppb	99.647 %	29.652 ppb
Concentration per Run 3	15.025 ppb	25.537 ppb	203.311 ppb	197.767 ppb	103.822 %	9.559 ppb	10.648 ppb	105.878 %	28.959 ppb
Concentration RSD	10.9 %	7.7 %	2.3 %	1.0 %	2.0 %	2.6 %	3.7 %	3.1 %	1.5 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	392.602 ppb	96.326 %	93.233 %	23.462 ppb	106.713 ppb	101.676 %
Concentration per Run 1	397.421 ppb	95.602 %	90.275 %	22.493 ppb	101.854 ppb	103.972 %
Concentration per Run 2	390.833 ppb	96.272 %	93.778 %	23.950 ppb	109.062 ppb	98.871 %
Concentration per Run 3	389.553 ppb	97.105 %	95.645 %	23.942 ppb	109.223 ppb	102.185 %
Concentration RSD	1.1 %	0.8 %	2.9 %	3.6 %	3.9 %	2.5 %

Alpha ICPMSQ2 Data with SRD

3/6/2024 5:39:21 AM

Analysis index:	19	User name	ALPHALAB\a2-icpmsq2	Comment	<Comment>
Analysis label:	WG1891954-3d10 A2-6020T	Rack	2		
Analysis started at:	3/5/2024 10:04:11 PM	Vial	52		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	106.328 %	105.357 %	10.347 ppb	11,982.372 ppb	2,136.821 ppb	2,334.919 ppb	5,446.628 ppb	1,875.020 ppb	91.631 %
Concentration per Run 1	106.010 %	104.082 %	10.170 ppb	12,193.319 ppb	2,207.753 ppb	2,409.632 ppb	5,738.540 ppb	2,001.216 ppb	91.235 %
Concentration per Run 2	106.072 %	93.367 %	10.369 ppb	12,539.568 ppb	2,209.833 ppb	2,398.505 ppb	5,451.423 ppb	1,930.570 ppb	90.566 %
Concentration per Run 3	106.901 %	118.623 %	10.503 ppb	11,214.229 ppb	1,992.879 ppb	2,196.619 ppb	5,149.921 ppb	1,693.273 ppb	93.093 %
Concentration RSD	0.5 %	12.0 %	1.6 %	5.7 %	5.8 %	5.1 %	5.4 %	8.6 %	1.4 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	98.642 ppb	39.931 ppb	100.383 ppb	289.808 ppb	96.908 ppb	98.539 ppb	77.507 ppb	4,249.531 ppb	106.774 %
Concentration per Run 1	105.113 ppb	41.301 ppb	106.746 ppb	306.254 ppb	100.961 ppb	102.485 ppb	82.357 ppb	4,486.383 ppb	98.880 %
Concentration per Run 2	95.191 ppb	40.409 ppb	98.213 ppb	289.200 ppb	96.531 ppb	97.161 ppb	76.052 ppb	4,123.850 ppb	108.727 %
Concentration per Run 3	95.621 ppb	38.085 ppb	96.190 ppb	273.972 ppb	93.231 ppb	95.971 ppb	74.112 ppb	4,138.361 ppb	112.715 %
Concentration RSD	5.7 %	4.2 %	5.6 %	5.6 %	4.0 %	3.5 %	5.6 %	4.8 %	6.7 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	18.052 ppb	22.143 ppb	279.431 ppb	190.927 ppb	104.288 %	9.688 ppb	10.130 ppb	104.525 %	32.198 ppb
Concentration per Run 1	20.554 ppb	22.162 ppb	290.484 ppb	197.687 ppb	100.898 %	9.791 ppb	9.859 ppb	101.416 %	32.597 ppb
Concentration per Run 2	16.824 ppb	22.107 ppb	268.590 ppb	190.315 ppb	107.009 %	9.640 ppb	10.193 ppb	105.873 %	31.871 ppb
Concentration per Run 3	16.779 ppb	22.160 ppb	279.219 ppb	184.778 ppb	104.958 %	9.633 ppb	10.338 ppb	106.286 %	32.126 ppb
Concentration RSD	12.0 %	0.1 %	3.9 %	3.4 %	3.0 %	0.9 %	2.4 %	2.6 %	1.1 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	6,146.675 ppb	90.306 %	87.633 %	23.446 ppb	107.203 ppb	102.492 %
Concentration per Run 1	6,201.559 ppb	87.508 %	84.984 %	23.185 ppb	105.408 ppb	101.313 %
Concentration per Run 2	6,099.684 ppb	91.401 %	88.909 %	23.527 ppb	107.893 ppb	102.010 %
Concentration per Run 3	6,138.782 ppb	92.009 %	89.005 %	23.626 ppb	108.308 ppb	104.151 %
Concentration RSD	0.8 %	2.7 %	2.6 %	1.0 %	1.5 %	1.4 %

Alpha ICPMSQ2 Data with SRD

3/6/2024 5:39:21 AM

Analysis index:	20	User name	ALPHALAB\a2-icpmsq2	Comment	<Comment>
Analysis label:	WG1891954-5d10 A2-6020T	Rack	2		
Analysis started at:	3/5/2024 10:08:39 PM	Vial	54		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	100.964 %	100.128 %	47.116 ppb	11,955.445 ppb	4,814.160 ppb	878.038 ppb	7,041.093 ppb	5,234.169 ppb	86.506 %
Concentration per Run 1	99.722 %	97.194 %	47.645 ppb	12,716.145 ppb	4,994.049 ppb	954.309 ppb	7,474.545 ppb	5,704.784 ppb	84.755 %
Concentration per Run 2	101.342 %	91.071 %	46.400 ppb	12,046.918 ppb	4,939.937 ppb	859.589 ppb	6,881.528 ppb	4,923.802 ppb	86.302 %
Concentration per Run 3	101.826 %	112.117 %	47.302 ppb	11,103.272 ppb	4,508.495 ppb	820.215 ppb	6,767.206 ppb	5,073.922 ppb	88.460 %
Concentration RSD	1.1 %	10.8 %	1.4 %	6.8 %	5.5 %	7.8 %	5.4 %	7.9 %	2.2 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	45.145 ppb	46.276 ppb	47.458 ppb	4,670.236 ppb	45.266 ppb	46.613 ppb	70.563 ppb	2,819.048 ppb	99.856 %
Concentration per Run 1	48.235 ppb	48.484 ppb	52.298 ppb	4,912.722 ppb	47.444 ppb	49.111 ppb	74.820 ppb	2,962.981 ppb	104.394 %
Concentration per Run 2	42.922 ppb	46.638 ppb	44.468 ppb	4,609.321 ppb	45.517 ppb	46.245 ppb	69.553 ppb	2,773.405 ppb	91.014 %
Concentration per Run 3	44.277 ppb	43.705 ppb	45.609 ppb	4,488.667 ppb	42.839 ppb	44.483 ppb	67.315 ppb	2,720.759 ppb	104.159 %
Concentration RSD	6.1 %	5.2 %	8.9 %	4.7 %	5.1 %	5.0 %	5.5 %	4.5 %	7.7 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	44.081 ppb	43.780 ppb	103.693 ppb	45.985 ppb	95.695 %	0.530 ppb	44.739 ppb	95.752 %	46.173 ppb
Concentration per Run 1	45.927 ppb	45.222 ppb	107.682 ppb	45.987 ppb	100.703 %	0.566 ppb	45.851 ppb	102.356 %	45.587 ppb
Concentration per Run 2	43.356 ppb	40.745 ppb	100.505 ppb	46.357 ppb	88.566 %	0.528 ppb	43.877 ppb	86.872 %	46.612 ppb
Concentration per Run 3	42.960 ppb	45.374 ppb	102.892 ppb	45.610 ppb	97.814 %	0.497 ppb	44.490 ppb	98.029 %	46.320 ppb
Concentration RSD	3.7 %	6.0 %	3.5 %	0.8 %	6.6 %	6.5 %	2.3 %	8.3 %	1.1 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	3,812.315 ppb	86.275 %	83.793 %	45.656 ppb	48.715 ppb	91.430 %
Concentration per Run 1	3,914.323 ppb	91.182 %	87.621 %	45.107 ppb	47.805 ppb	99.982 %
Concentration per Run 2	3,722.902 ppb	78.832 %	77.380 %	46.336 ppb	49.425 ppb	81.932 %
Concentration per Run 3	3,799.721 ppb	88.812 %	86.377 %	45.525 ppb	48.914 ppb	92.377 %
Concentration RSD	2.5 %	7.6 %	6.7 %	1.4 %	1.7 %	9.9 %

Alpha ICPMSQ2 Data with SRD

3/6/2024 5:39:21 AM

Analysis index:	21	User name	ALPHALAB\a2-icpmsq2	Comment	<Comment>
Analysis label:	WG1891954-4D2 A2-6020T	Rack	2		
Analysis started at:	3/5/2024 10:13:07 PM	Vial	53		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	100.283 %	96.556 %	0.058 ppb	29,688.849 ppb	535.953 ppb	2,848.550 ppb	9,786.688 ppb	3,320.943 ppb	83.940 %
Concentration per Run 1	101.805 %	93.750 %	0.058 ppb	29,211.341 ppb	565.810 ppb	2,887.605 ppb	9,914.104 ppb	3,113.194 ppb	88.451 %
Concentration per Run 2	98.669 %	94.898 %	0.058 ppb	30,384.286 ppb	528.140 ppb	2,824.008 ppb	9,649.234 ppb	3,419.409 ppb	78.809 %
Concentration per Run 3	100.377 %	101.020 %	0.058 ppb	29,470.920 ppb	513.909 ppb	2,834.036 ppb	9,796.726 ppb	3,430.226 ppb	84.560 %
Concentration RSD	1.6 %	4.0 %	0.3 %	2.1 %	5.0 %	1.2 %	1.4 %	5.4 %	5.8 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.448 ppb	4.700 ppb	6.859 ppb	407.449 ppb	0.197 ppb	1.227 ppb	136.657 ppb	10,132.484 ppb	101.076 %
Concentration per Run 1	0.372 ppb	4.932 ppb	6.729 ppb	400.462 ppb	0.224 ppb	1.456 ppb	138.873 ppb	9,559.485 ppb	95.555 %
Concentration per Run 2	0.526 ppb	4.638 ppb	7.357 ppb	387.198 ppb	0.203 ppb	1.143 ppb	135.496 ppb	10,434.385 ppb	103.794 %
Concentration per Run 3	0.447 ppb	4.532 ppb	6.491 ppb	434.688 ppb	0.165 ppb	1.082 ppb	135.601 ppb	10,403.583 ppb	103.881 %
Concentration RSD	17.2 %	4.4 %	6.5 %	6.0 %	15.1 %	16.3 %	1.4 %	4.9 %	4.7 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.847 ppb	0.150 ppb	214.057 ppb	4.406 ppb	96.664 %	0.083 ppb	0.063 ppb	96.379 %	1.095 ppb
Concentration per Run 1	0.776 ppb	0.223 ppb	218.855 ppb	4.521 ppb	93.725 %	0.085 ppb	0.067 ppb	92.958 %	1.164 ppb
Concentration per Run 2	1.014 ppb	0.188 ppb	204.684 ppb	4.245 ppb	95.289 %	0.087 ppb	0.047 ppb	95.348 %	0.962 ppb
Concentration per Run 3	0.751 ppb	0.038 ppb	218.633 ppb	4.452 ppb	100.977 %	0.078 ppb	0.075 ppb	100.832 %	1.159 ppb
Concentration RSD	17.2 %	65.6 %	3.8 %	3.3 %	3.9 %	5.6 %	23.0 %	4.2 %	10.5 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	13,537.663 ppb	85.289 %	82.139 %	0.370 ppb	6.358 ppb	94.842 %
Concentration per Run 1	14,375.143 ppb	82.210 %	79.367 %	0.268 ppb	6.169 ppb	93.122 %
Concentration per Run 2	12,891.355 ppb	85.179 %	80.374 %	0.470 ppb	6.423 ppb	94.190 %
Concentration per Run 3	13,346.491 ppb	88.477 %	86.677 %	0.371 ppb	6.482 ppb	97.213 %
Concentration RSD	5.6 %	3.7 %	4.8 %	27.3 %	2.6 %	2.2 %

Alpha ICPMSQ2 Data with SRD

3/6/2024 5:39:21 AM

Analysis index:	22	User name	ALPHALAB\a2-icpmsq2	Comment	<Comment>
Analysis label:	I2410713-01D2 A2-6020T	Rack	2		
Analysis started at:	3/5/2024 10:17:34 PM	Vial	51		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	105.092 %	102.041 %	0.068 ppb	37,342.015 ppb	648.630 ppb	4,260.811 ppb	12,978.757 ppb	4,491.895 ppb	87.213 %
Concentration per Run 1	104.761 %	97.959 %	0.061 ppb	37,531.375 ppb	640.931 ppb	4,373.480 ppb	13,401.056 ppb	4,149.325 ppb	85.808 %
Concentration per Run 2	104.796 %	109.439 %	0.068 ppb	35,605.001 ppb	630.791 ppb	4,082.258 ppb	12,569.361 ppb	4,408.626 ppb	87.160 %
Concentration per Run 3	105.719 %	98.724 %	0.074 ppb	38,889.668 ppb	674.167 ppb	4,326.694 ppb	12,965.854 ppb	4,917.734 ppb	88.670 %
Concentration RSD	0.5 %	6.3 %	9.5 %	4.4 %	3.5 %	3.7 %	3.2 %	8.7 %	1.6 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.554 ppb	6.068 ppb	7.006 ppb	367.026 ppb	0.159 ppb	0.748 ppb	129.318 ppb	12,828.978 ppb	104.409 %
Concentration per Run 1	0.592 ppb	7.811 ppb	7.046 ppb	377.270 ppb	0.125 ppb	0.665 ppb	131.682 ppb	12,962.021 ppb	97.509 %
Concentration per Run 2	0.701 ppb	5.045 ppb	6.927 ppb	368.663 ppb	0.170 ppb	0.873 ppb	125.934 ppb	12,722.718 ppb	106.136 %
Concentration per Run 3	0.368 ppb	5.349 ppb	7.046 ppb	355.146 ppb	0.181 ppb	0.707 ppb	130.337 ppb	12,802.196 ppb	109.584 %
Concentration RSD	30.7 %	25.0 %	1.0 %	3.0 %	18.6 %	14.7 %	2.3 %	1.0 %	6.0 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	1.151 ppb	0.105 ppb	291.408 ppb	4.429 ppb	100.213 %	0.101 ppb	0.096 ppb	99.102 %	1.189 ppb
Concentration per Run 1	1.055 ppb	0.295 ppb	298.801 ppb	4.476 ppb	95.604 %	0.087 ppb	0.094 ppb	94.354 %	1.277 ppb
Concentration per Run 2	1.308 ppb	-0.006 ppb	296.741 ppb	4.080 ppb	103.179 %	0.106 ppb	0.108 ppb	103.169 %	1.133 ppb
Concentration per Run 3	1.091 ppb	0.028 ppb	278.681 ppb	4.730 ppb	101.857 %	0.108 ppb	0.084 ppb	99.782 %	1.157 ppb
Concentration RSD	11.9 %	156.4 %	3.8 %	7.4 %	4.0 %	11.5 %	12.4 %	4.5 %	6.5 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	18,306.713 ppb	83.670 %	81.256 %	0.151 ppb	6.916 ppb	96.251 %
Concentration per Run 1	18,446.928 ppb	78.188 %	75.784 %	0.096 ppb	6.847 ppb	93.027 %
Concentration per Run 2	18,321.620 ppb	86.256 %	85.271 %	0.183 ppb	6.902 ppb	98.267 %
Concentration per Run 3	18,151.592 ppb	86.567 %	82.713 %	0.174 ppb	6.998 ppb	97.459 %
Concentration RSD	0.8 %	5.7 %	6.0 %	31.7 %	1.1 %	2.9 %

Alpha ICPMSQ2 Data with SRD

3/6/2024 5:39:21 AM

Analysis index:	23	User name	ALPHALAB\a2-icpmsq2	Comment	<Comment>
Analysis label:	I2410713-02D2 A2-6020T	Rack	2		
Analysis started at:	3/5/2024 10:22:02 PM	Vial	56		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	105.193 %	106.378 %	0.100 ppb	69,908.292 ppb	1,331.969 ppb	4,714.266 ppb	14,535.472 ppb	6,092.147 ppb	88.001 %
Concentration per Run 1	104.673 %	102.551 %	0.101 ppb	70,474.503 ppb	1,349.442 ppb	4,868.904 ppb	15,086.040 ppb	5,944.582 ppb	87.759 %
Concentration per Run 2	106.234 %	105.230 %	0.097 ppb	70,589.404 ppb	1,352.535 ppb	4,765.349 ppb	14,703.994 ppb	6,293.806 ppb	89.288 %
Concentration per Run 3	104.672 %	111.352 %	0.103 ppb	68,660.969 ppb	1,293.929 ppb	4,508.545 ppb	13,816.380 ppb	6,038.053 ppb	86.955 %
Concentration RSD	0.9 %	4.2 %	3.0 %	1.5 %	2.5 %	3.9 %	4.5 %	3.0 %	1.3 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	1.404 ppb	7.528 ppb	17.590 ppb	1,015.318 ppb	0.482 ppb	1.906 ppb	166.432 ppb	14,387.824 ppb	100.384 %
Concentration per Run 1	1.372 ppb	7.128 ppb	16.764 ppb	996.131 ppb	0.414 ppb	2.095 ppb	158.090 ppb	13,608.147 ppb	105.681 %
Concentration per Run 2	1.421 ppb	7.906 ppb	18.337 ppb	1,044.341 ppb	0.502 ppb	1.435 ppb	170.726 ppb	14,737.175 ppb	96.815 %
Concentration per Run 3	1.417 ppb	7.549 ppb	17.670 ppb	1,005.483 ppb	0.530 ppb	2.188 ppb	170.480 ppb	14,818.151 ppb	98.657 %
Concentration RSD	2.0 %	5.2 %	4.5 %	2.5 %	12.5 %	21.5 %	4.3 %	4.7 %	4.7 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	2.017 ppb	0.178 ppb	345.302 ppb	5.230 ppb	98.041 %	0.132 ppb	0.416 ppb	97.716 %	2.204 ppb
Concentration per Run 1	1.858 ppb	-0.027 ppb	337.382 ppb	4.679 ppb	96.878 %	0.124 ppb	0.392 ppb	100.062 %	2.151 ppb
Concentration per Run 2	2.108 ppb	0.298 ppb	347.664 ppb	5.230 ppb	95.704 %	0.133 ppb	0.435 ppb	97.002 %	2.190 ppb
Concentration per Run 3	2.083 ppb	0.263 ppb	350.860 ppb	5.782 ppb	101.540 %	0.138 ppb	0.420 ppb	96.085 %	2.272 ppb
Concentration RSD	6.8 %	100.3 %	2.0 %	10.5 %	3.1 %	5.6 %	5.2 %	2.1 %	2.8 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	20,394.403 ppb	80.692 %	77.826 %	0.110 ppb	20.086 ppb	94.093 %
Concentration per Run 1	20,015.821 ppb	80.118 %	77.697 %	0.077 ppb	19.326 ppb	95.702 %
Concentration per Run 2	20,624.357 ppb	80.998 %	78.494 %	0.128 ppb	20.529 ppb	93.357 %
Concentration per Run 3	20,543.032 ppb	80.959 %	77.285 %	0.124 ppb	20.401 ppb	93.219 %
Concentration RSD	1.6 %	0.6 %	0.8 %	25.9 %	3.3 %	1.5 %

Alpha ICPMSQ2 Data with SRD

3/6/2024 5:39:21 AM

Analysis index:	24	User name	ALPHALAB\a2-icpmsq2	Comment	<Comment>
Analysis label:	I2410713-03D2 A2-6020T	Rack	2		
Analysis started at:	3/5/2024 10:26:30 PM	Vial	57		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	105.083 %	100.255 %	0.082 ppb	43,711.651 ppb	721.835 ppb	4,920.964 ppb	14,764.420 ppb	4,585.090 ppb	88.219 %
Concentration per Run 1	105.299 %	105.230 %	0.088 ppb	43,891.248 ppb	719.319 ppb	5,058.137 ppb	15,461.357 ppb	4,895.668 ppb	88.387 %
Concentration per Run 2	105.689 %	93.750 %	0.084 ppb	45,884.347 ppb	746.009 ppb	5,153.972 ppb	14,867.871 ppb	4,774.126 ppb	88.427 %
Concentration per Run 3	104.262 %	101.786 %	0.074 ppb	41,359.358 ppb	700.177 ppb	4,550.783 ppb	13,964.031 ppb	4,085.476 ppb	87.844 %
Concentration RSD	0.7 %	5.9 %	8.7 %	5.2 %	3.2 %	6.6 %	5.1 %	9.5 %	0.4 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.430 ppb	5.955 ppb	7.508 ppb	356.375 ppb	0.189 ppb	1.410 ppb	257.659 ppb	14,416.330 ppb	102.920 %
Concentration per Run 1	0.434 ppb	5.664 ppb	8.288 ppb	346.874 ppb	0.235 ppb	1.331 ppb	246.125 ppb	14,219.184 ppb	105.789 %
Concentration per Run 2	0.486 ppb	6.245 ppb	7.388 ppb	360.439 ppb	0.139 ppb	1.261 ppb	263.271 ppb	14,601.417 ppb	103.080 %
Concentration per Run 3	0.369 ppb	5.955 ppb	6.847 ppb	361.813 ppb	0.194 ppb	1.638 ppb	263.580 ppb	14,428.390 ppb	99.891 %
Concentration RSD	13.6 %	4.9 %	9.7 %	2.3 %	25.5 %	14.2 %	3.9 %	1.3 %	2.9 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	1.421 ppb	-0.055 ppb	336.141 ppb	3.303 ppb	103.750 %	0.201 ppb	0.075 ppb	106.108 %	0.950 ppb
Concentration per Run 1	1.370 ppb	-0.117 ppb	348.599 ppb	3.268 ppb	101.383 %	0.195 ppb	0.101 ppb	107.853 %	1.046 ppb
Concentration per Run 2	1.630 ppb	-0.095 ppb	326.647 ppb	3.101 ppb	104.898 %	0.190 ppb	0.072 ppb	105.344 %	0.770 ppb
Concentration per Run 3	1.264 ppb	0.048 ppb	333.178 ppb	3.542 ppb	104.967 %	0.218 ppb	0.051 ppb	105.127 %	1.033 ppb
Concentration RSD	13.2 %	162.8 %	3.4 %	6.7 %	2.0 %	7.4 %	33.9 %	1.4 %	16.4 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	20,358.622 ppb	85.585 %	81.739 %	0.094 ppb	7.964 ppb	99.495 %
Concentration per Run 1	20,604.422 ppb	84.775 %	82.224 %	0.054 ppb	7.743 ppb	100.672 %
Concentration per Run 2	20,361.881 ppb	87.557 %	83.316 %	0.113 ppb	7.940 ppb	101.559 %
Concentration per Run 3	20,109.565 ppb	84.424 %	79.678 %	0.114 ppb	8.209 ppb	96.255 %
Concentration RSD	1.2 %	2.0 %	2.3 %	36.6 %	2.9 %	2.9 %

Alpha ICPMSQ2 Data with SRD

3/6/2024 5:39:21 AM

Analysis index:	25	User name	ALPHALAB\a2-icpmsq2	Comment	<Comment>
Analysis label:	I2410713-04D2 A2-6020T	Rack	2		
Analysis started at:	3/5/2024 10:30:58 PM	Vial	58		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	105.805 %	103.061 %	0.088 ppb	45,319.713 ppb	932.896 ppb	5,844.123 ppb	16,456.897 ppb	5,393.954 ppb	84.126 %
Concentration per Run 1	105.557 %	101.403 %	0.080 ppb	45,832.025 ppb	958.536 ppb	5,947.493 ppb	16,610.088 ppb	5,201.540 ppb	83.725 %
Concentration per Run 2	105.066 %	102.551 %	0.093 ppb	45,853.313 ppb	942.172 ppb	5,898.172 ppb	16,766.412 ppb	5,572.172 ppb	83.117 %
Concentration per Run 3	106.791 %	105.230 %	0.089 ppb	44,273.799 ppb	897.978 ppb	5,686.704 ppb	15,994.192 ppb	5,408.152 ppb	85.537 %
Concentration RSD	0.8 %	1.9 %	7.7 %	2.0 %	3.4 %	2.4 %	2.5 %	3.4 %	1.5 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.370 ppb	5.603 ppb	7.248 ppb	287.768 ppb	0.116 ppb	0.723 ppb	68.112 ppb	16,143.708 ppb	101.959 %
Concentration per Run 1	0.281 ppb	5.434 ppb	6.920 ppb	316.052 ppb	0.108 ppb	0.528 ppb	64.742 ppb	15,423.406 ppb	108.803 %
Concentration per Run 2	0.388 ppb	6.042 ppb	8.282 ppb	288.078 ppb	0.122 ppb	0.938 ppb	71.725 ppb	17,217.226 ppb	93.366 %
Concentration per Run 3	0.440 ppb	5.335 ppb	6.541 ppb	259.174 ppb	0.117 ppb	0.702 ppb	67.869 ppb	15,790.492 ppb	103.707 %
Concentration RSD	22.0 %	6.8 %	12.6 %	9.9 %	6.1 %	28.5 %	5.1 %	5.9 %	7.7 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	1.585 ppb	0.130 ppb	387.758 ppb	2.029 ppb	98.943 %	0.054 ppb	0.115 ppb	103.067 %	0.978 ppb
Concentration per Run 1	1.600 ppb	0.381 ppb	391.627 ppb	1.968 ppb	96.994 %	0.050 ppb	0.130 ppb	105.673 %	0.971 ppb
Concentration per Run 2	1.747 ppb	-0.005 ppb	392.559 ppb	2.235 ppb	97.980 %	0.057 ppb	0.107 ppb	101.372 %	1.008 ppb
Concentration per Run 3	1.409 ppb	0.014 ppb	379.088 ppb	1.885 ppb	101.855 %	0.054 ppb	0.109 ppb	102.156 %	0.956 ppb
Concentration RSD	10.7 %	167.3 %	1.9 %	9.0 %	2.6 %	7.0 %	11.1 %	2.2 %	2.7 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	23,676.657 ppb	79.247 %	77.033 %	0.093 ppb	6.762 ppb	90.307 %
Concentration per Run 1	24,334.609 ppb	80.722 %	77.779 %	0.067 ppb	6.576 ppb	93.082 %
Concentration per Run 2	23,367.778 ppb	79.825 %	77.974 %	0.104 ppb	6.861 ppb	89.683 %
Concentration per Run 3	23,327.582 ppb	77.194 %	75.346 %	0.107 ppb	6.850 ppb	88.157 %
Concentration RSD	2.4 %	2.3 %	1.9 %	24.3 %	2.4 %	2.8 %

Alpha ICPMSQ2 Data with SRD

3/6/2024 5:39:21 AM

Analysis index:	26	User name	ALPHALAB\a2-icpmsq2	Comment	<Comment>
Analysis label:	WG1891954-6d10 A2-6020T	Rack	2		
Analysis started at:	3/5/2024 10:35:26 PM	Vial	55		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	107.174 %	107.015 %	0.019 ppb	7,525.419 ppb	135.903 ppb	916.609 ppb	2,696.079 ppb	852.056 ppb	97.938 %
Concentration per Run 1	106.879 %	106.378 %	0.015 ppb	7,490.832 ppb	149.023 ppb	903.471 ppb	2,720.023 ppb	771.579 ppb	96.381 %
Concentration per Run 2	107.643 %	107.908 %	0.020 ppb	7,519.533 ppb	130.140 ppb	916.657 ppb	2,635.598 ppb	1,008.012 ppb	98.926 %
Concentration per Run 3	106.999 %	106.760 %	0.022 ppb	7,565.893 ppb	128.547 ppb	929.699 ppb	2,732.615 ppb	776.575 ppb	98.508 %
Concentration RSD	0.4 %	0.7 %	19.2 %	0.5 %	8.4 %	1.4 %	2.0 %	15.9 %	1.4 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.253 ppb	1.077 ppb	1.417 ppb	79.660 ppb	0.038 ppb	0.127 ppb	27.961 ppb	2,937.313 ppb	109.164 %
Concentration per Run 1	0.247 ppb	1.092 ppb	1.427 ppb	72.498 ppb	0.050 ppb	0.305 ppb	26.573 ppb	2,897.391 ppb	112.099 %
Concentration per Run 2	0.208 ppb	1.074 ppb	1.410 ppb	74.616 ppb	0.018 ppb	0.078 ppb	25.574 ppb	2,880.672 ppb	110.472 %
Concentration per Run 3	0.305 ppb	1.064 ppb	1.415 ppb	91.865 ppb	0.047 ppb	-0.002 ppb	31.735 ppb	3,033.876 ppb	104.921 %
Concentration RSD	19.3 %	1.3 %	0.6 %	13.3 %	46.6 %	125.4 %	11.8 %	2.9 %	3.4 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.212 ppb	-0.090 ppb	61.374 ppb	0.894 ppb	106.891 %	0.012 ppb	0.013 ppb	109.524 %	0.232 ppb
Concentration per Run 1	0.248 ppb	-0.180 ppb	62.348 ppb	0.947 ppb	104.486 %	0.014 ppb	0.016 ppb	107.858 %	0.201 ppb
Concentration per Run 2	0.154 ppb	-0.083 ppb	60.184 ppb	0.858 ppb	106.456 %	0.011 ppb	0.012 ppb	110.330 %	0.230 ppb
Concentration per Run 3	0.235 ppb	-0.006 ppb	61.589 ppb	0.877 ppb	109.731 %	0.012 ppb	0.012 ppb	110.384 %	0.266 ppb
Concentration RSD	24.1 %	97.0 %	1.8 %	5.2 %	2.5 %	12.3 %	20.1 %	1.3 %	14.0 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	3,805.904 ppb	100.817 %	99.215 %	0.008 ppb	1.355 ppb	103.942 %
Concentration per Run 1	3,910.319 ppb	99.944 %	97.916 %	-0.017 ppb	1.339 ppb	103.446 %
Concentration per Run 2	3,749.993 ppb	100.129 %	98.973 %	0.021 ppb	1.337 ppb	102.726 %
Concentration per Run 3	3,757.399 ppb	102.378 %	100.756 %	0.022 ppb	1.387 ppb	105.652 %
Concentration RSD	2.4 %	1.3 %	1.4 %	262.4 %	2.1 %	1.5 %

Alpha ICPMSQ2 Data with SRD

3/6/2024 5:39:21 AM

Analysis index:	27	User name	ALPHALAB\a2-icpmsq2	Comment	<Comment>
Analysis label:	CCV	Rack	0		
Analysis started at:	3/5/2024 10:39:54 PM	Vial	9		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	107.371 %	110.459 %	61.697 ppb	6,184.682 ppb	6,205.113 ppb	63.943 ppb	6,300.432 ppb	6,426.297 ppb	105.570 %
Concentration per Run 1	107.525 %	107.143 %	61.250 ppb	6,216.309 ppb	6,233.542 ppb	69.426 ppb	6,288.955 ppb	6,529.631 ppb	106.049 %
Concentration per Run 2	107.499 %	112.117 %	61.846 ppb	6,322.092 ppb	6,380.860 ppb	65.775 ppb	6,713.496 ppb	6,563.884 ppb	105.905 %
Concentration per Run 3	107.090 %	112.117 %	61.996 ppb	6,015.646 ppb	6,000.938 ppb	56.627 ppb	5,898.845 ppb	6,185.377 ppb	104.756 %
Recovery Percentage 1			102.829 %	103.078 %	103.419 %	106.571 %	105.007 %	107.105 %	
Concentration RSD	0.2 %	2.6 %	0.6 %	2.5 %	3.1 %	10.3 %	6.5 %	3.3 %	0.7 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	61.338 ppb	61.838 ppb	64.480 ppb	6,270.071 ppb	62.080 ppb	63.491 ppb	63.154 ppb	63.369 ppb	109.262 %
Concentration per Run 1	62.747 ppb	63.890 ppb	66.510 ppb	6,621.289 ppb	65.532 ppb	68.542 ppb	67.921 ppb	67.118 ppb	101.021 %
Concentration per Run 2	61.143 ppb	62.376 ppb	68.245 ppb	6,290.636 ppb	61.571 ppb	63.896 ppb	63.076 ppb	64.142 ppb	110.422 %
Concentration per Run 3	60.125 ppb	59.249 ppb	58.685 ppb	5,898.288 ppb	59.135 ppb	58.034 ppb	58.463 ppb	58.847 ppb	116.342 %
Recovery Percentage 1	102.230 %	103.064 %	107.467 %	104.501 %	103.466 %	105.818 %	105.256 %	105.616 %	
Concentration RSD	2.2 %	3.8 %	7.9 %	5.8 %	5.2 %	8.3 %	7.5 %	6.6 %	7.1 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	61.877 ppb	62.696 ppb	61.779 ppb	60.245 ppb	109.051 %	59.722 ppb	59.983 ppb	109.375 %	57.398 ppb
Concentration per Run 1	64.393 ppb	62.871 ppb	62.210 ppb	59.600 ppb	105.305 %	60.869 ppb	61.139 ppb	102.339 %	58.844 ppb
Concentration per Run 2	62.564 ppb	65.807 ppb	64.745 ppb	61.894 ppb	112.042 %	58.970 ppb	59.205 ppb	116.588 %	56.743 ppb
Concentration per Run 3	58.674 ppb	59.410 ppb	58.382 ppb	59.240 ppb	109.805 %	59.327 ppb	59.606 ppb	109.198 %	56.606 ppb
Recovery Percentage 1	103.128 %	104.493 %	102.965 %	100.408 %		99.537 %	99.972 %		95.663 %
Concentration RSD	4.7 %	5.1 %	5.2 %	2.4 %	3.1 %	1.7 %	1.7 %	6.5 %	2.2 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	61.157 ppb	103.478 %	101.985 %	60.586 ppb	61.986 ppb	102.502 %
Concentration per Run 1	61.540 ppb	99.010 %	95.466 %	59.847 ppb	60.494 ppb	100.806 %
Concentration per Run 2	61.764 ppb	108.000 %	107.447 %	61.831 ppb	63.135 ppb	102.558 %
Concentration per Run 3	60.167 ppb	103.423 %	103.040 %	60.079 ppb	62.328 ppb	104.143 %
Recovery Percentage 1	101.929 %			100.976 %	103.310 %	
Concentration RSD	1.4 %	4.3 %	5.9 %	1.8 %	2.2 %	1.6 %

Alpha ICPMSQ2 Data with SRD

3/6/2024 5:39:21 AM

Analysis index:	28	User name	ALPHALAB\a2-icpmsq2	Comment	<Comment>
Analysis label:	CCB	Rack	0		
Analysis started at:	3/5/2024 10:44:24 PM	Vial	10		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	102.829 %	104.337 %	0.004 ppb	-5.624 ppb	-0.757 ppb	0.295 ppb	-3.857 ppb	-1.011 ppb	101.859 %
Concentration per Run 1	103.524 %	102.551 %	0.008 ppb	-6.341 ppb	-0.410 ppb	-0.243 ppb	-3.976 ppb	-10.185 ppb	102.582 %
Concentration per Run 2	103.599 %	106.378 %	0.003 ppb	-7.698 ppb	-0.950 ppb	0.897 ppb	-9.512 ppb	7.895 ppb	101.819 %
Concentration per Run 3	101.364 %	104.082 %	0.000 ppb	-2.834 ppb	-0.912 ppb	0.233 ppb	1.917 ppb	-0.743 ppb	101.176 %
Recovery Percentage 1			0.741 %	-5.624 %	-1.082 %	2.954 %	-3.857 %	-1.011 %	
Concentration RSD	1.2 %	1.8 %	113.2 %	44.6 %	39.8 %	193.8 %	148.2 %	894.5 %	0.7 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.005 ppb	0.018 ppb	-0.018 ppb	5.581 ppb	0.006 ppb	-0.053 ppb	-0.003 ppb	-0.081 ppb	104.488 %
Concentration per Run 1	0.034 ppb	0.043 ppb	-0.019 ppb	4.343 ppb	0.015 ppb	-0.077 ppb	0.004 ppb	-0.117 ppb	95.295 %
Concentration per Run 2	-0.001 ppb	0.018 ppb	0.050 ppb	4.050 ppb	0.007 ppb	-0.086 ppb	0.015 ppb	-0.116 ppb	114.462 %
Concentration per Run 3	-0.017 ppb	-0.007 ppb	-0.083 ppb	8.349 ppb	-0.004 ppb	0.004 ppb	-0.027 ppb	-0.009 ppb	103.707 %
Recovery Percentage 1	0.103 %	1.782 %	-1.761 %	11.161 %	1.139 %	-2.643 %	-0.271 %	-1.615 %	
Concentration RSD	500.5 %	139.2 %	378.4 %	43.0 %	164.2 %	93.4 %	805.9 %	76.6 %	9.2 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.022 ppb	-0.057 ppb	0.004 ppb	0.086 ppb	105.378 %	0.005 ppb	0.000 ppb	107.156 %	0.126 ppb
Concentration per Run 1	-0.011 ppb	-0.072 ppb	0.001 ppb	0.093 ppb	98.968 %	0.008 ppb	0.004 ppb	99.064 %	0.118 ppb
Concentration per Run 2	0.039 ppb	0.027 ppb	-0.004 ppb	0.054 ppb	109.468 %	0.005 ppb	-0.005 ppb	114.471 %	0.092 ppb
Concentration per Run 3	0.037 ppb	-0.127 ppb	0.016 ppb	0.111 ppb	107.699 %	0.003 ppb	0.000 ppb	107.932 %	0.168 ppb
Recovery Percentage 1	4.343 %	-1.149 %	0.041 %	4.287 %		1.311 %	-0.078 %		3.148 %
Concentration RSD	128.9 %	135.5 %	250.7 %	34.1 %	5.3 %	44.9 %	2,882.5 %	7.2 %	31.0 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.148 ppb	105.735 %	105.844 %	0.284 ppb	0.012 ppb	99.840 %
Concentration per Run 1	0.129 ppb	101.135 %	98.478 %	0.196 ppb	0.016 ppb	95.416 %
Concentration per Run 2	0.146 ppb	108.373 %	111.592 %	0.362 ppb	0.010 ppb	102.020 %
Concentration per Run 3	0.170 ppb	107.696 %	107.462 %	0.295 ppb	0.011 ppb	102.083 %
Recovery Percentage 1	29.665 %			28.411 %	1.205 %	
Concentration RSD	14.0 %	3.8 %	6.3 %	29.4 %	26.3 %	3.8 %

Alpha ICPMSQ2 Data with SRD

3/6/2024 5:39:21 AM

Analysis index:	29	User name	ALPHALAB\a2-icpmsq2	Comment	<Comment>
Analysis label:	I2410713-05D2 A2-6020T	Rack	2		
Analysis started at:	3/5/2024 10:48:55 PM	Vial	59		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	105.457 %	112.628 %	0.097 ppb	50,304.218 ppb	1,010.950 ppb	6,296.070 ppb	17,330.483 ppb	5,671.921 ppb	86.015 %
Concentration per Run 1	105.054 %	103.699 %	0.097 ppb	51,890.555 ppb	1,038.815 ppb	6,526.643 ppb	17,879.451 ppb	6,236.875 ppb	87.598 %
Concentration per Run 2	106.209 %	119.771 %	0.106 ppb	49,293.542 ppb	989.976 ppb	6,267.880 ppb	17,390.967 ppb	5,076.225 ppb	85.582 %
Concentration per Run 3	105.106 %	114.413 %	0.088 ppb	49,728.557 ppb	1,004.059 ppb	6,093.687 ppb	16,721.031 ppb	5,702.662 ppb	84.864 %
Concentration RSD	0.6 %	7.3 %	9.2 %	2.8 %	2.5 %	3.5 %	3.4 %	10.2 %	1.6 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.539 ppb	7.285 ppb	9.820 ppb	474.909 ppb	0.222 ppb	1.633 ppb	114.624 ppb	17,411.443 ppb	109.150 %
Concentration per Run 1	0.667 ppb	8.545 ppb	10.692 ppb	481.664 ppb	0.206 ppb	1.566 ppb	118.809 ppb	18,102.432 ppb	102.646 %
Concentration per Run 2	0.485 ppb	6.643 ppb	9.630 ppb	476.030 ppb	0.204 ppb	1.594 ppb	110.379 ppb	17,234.498 ppb	114.160 %
Concentration per Run 3	0.465 ppb	6.666 ppb	9.138 ppb	467.034 ppb	0.255 ppb	1.740 ppb	114.684 ppb	16,897.399 ppb	110.645 %
Concentration RSD	20.6 %	15.0 %	8.1 %	1.6 %	12.9 %	5.7 %	3.7 %	3.6 %	5.4 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	1.750 ppb	0.195 ppb	422.883 ppb	3.407 ppb	103.405 %	0.129 ppb	0.452 ppb	107.998 %	2.099 ppb
Concentration per Run 1	1.678 ppb	0.258 ppb	415.783 ppb	3.301 ppb	101.739 %	0.137 ppb	0.429 ppb	102.159 %	2.168 ppb
Concentration per Run 2	1.895 ppb	-0.115 ppb	438.451 ppb	3.304 ppb	104.993 %	0.119 ppb	0.425 ppb	115.802 %	1.971 ppb
Concentration per Run 3	1.677 ppb	0.441 ppb	414.415 ppb	3.614 ppb	103.483 %	0.131 ppb	0.501 ppb	106.033 %	2.157 ppb
Concentration RSD	7.2 %	145.3 %	3.2 %	5.3 %	1.6 %	7.0 %	9.4 %	6.5 %	5.3 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	25,717.510 ppb	86.541 %	82.723 %	0.159 ppb	65.993 ppb	101.121 %
Concentration per Run 1	25,599.802 ppb	82.663 %	78.439 %	0.109 ppb	63.254 ppb	101.381 %
Concentration per Run 2	25,593.991 ppb	90.358 %	86.379 %	0.185 ppb	67.488 ppb	100.853 %
Concentration per Run 3	25,958.737 ppb	86.601 %	83.352 %	0.185 ppb	67.238 ppb	101.130 %
Concentration RSD	0.8 %	4.4 %	4.8 %	27.5 %	3.6 %	0.3 %

Alpha ICPMSQ2 Data with SRD

3/6/2024 5:39:21 AM

Analysis index:	30	User name	ALPHALAB\a2-icpmsq2	Comment	<Comment>
Analysis label:	I2410713-06D2 A2-6020T	Rack	2		
Analysis started at:	3/5/2024 10:53:24 PM	Vial	60		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	105.060 %	100.255 %	0.085 ppb	46,878.066 ppb	879.451 ppb	5,685.959 ppb	16,597.372 ppb	5,368.017 ppb	87.335 %
Concentration per Run 1	104.530 %	95.281 %	0.071 ppb	48,170.793 ppb	928.761 ppb	5,778.934 ppb	16,630.881 ppb	5,460.667 ppb	86.450 %
Concentration per Run 2	105.796 %	103.699 %	0.093 ppb	46,171.705 ppb	866.067 ppb	5,566.548 ppb	16,636.823 ppb	5,258.914 ppb	87.754 %
Concentration per Run 3	104.854 %	101.786 %	0.091 ppb	46,291.701 ppb	843.524 ppb	5,712.397 ppb	16,524.411 ppb	5,384.470 ppb	87.802 %
Concentration RSD	0.6 %	4.4 %	14.3 %	2.4 %	5.0 %	1.9 %	0.4 %	1.9 %	0.9 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.327 ppb	5.580 ppb	6.344 ppb	233.768 ppb	0.080 ppb	0.895 ppb	238.676 ppb	16,121.882 ppb	106.584 %
Concentration per Run 1	0.218 ppb	5.614 ppb	6.190 ppb	261.316 ppb	0.094 ppb	0.978 ppb	249.224 ppb	16,622.817 ppb	99.544 %
Concentration per Run 2	0.376 ppb	5.237 ppb	5.798 ppb	217.208 ppb	0.089 ppb	0.737 ppb	232.124 ppb	15,840.173 ppb	111.773 %
Concentration per Run 3	0.388 ppb	5.888 ppb	7.044 ppb	222.780 ppb	0.058 ppb	0.969 ppb	234.681 ppb	15,902.657 ppb	108.436 %
Concentration RSD	28.9 %	5.9 %	10.0 %	10.3 %	24.3 %	15.3 %	3.9 %	2.7 %	5.9 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	1.517 ppb	0.085 ppb	378.582 ppb	2.243 ppb	105.458 %	0.156 ppb	0.623 ppb	108.964 %	0.629 ppb
Concentration per Run 1	1.792 ppb	0.018 ppb	376.227 ppb	2.152 ppb	102.520 %	0.160 ppb	0.656 ppb	102.910 %	0.609 ppb
Concentration per Run 2	1.334 ppb	0.006 ppb	384.595 ppb	2.289 ppb	107.535 %	0.141 ppb	0.629 ppb	114.299 %	0.615 ppb
Concentration per Run 3	1.425 ppb	0.232 ppb	374.925 ppb	2.288 ppb	106.320 %	0.166 ppb	0.584 ppb	109.683 %	0.662 ppb
Concentration RSD	16.0 %	149.5 %	1.4 %	3.5 %	2.5 %	8.5 %	5.9 %	5.3 %	4.6 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	22,899.534 ppb	87.965 %	84.445 %	0.105 ppb	26.391 ppb	100.677 %
Concentration per Run 1	22,975.241 ppb	85.288 %	79.485 %	0.063 ppb	25.463 ppb	100.861 %
Concentration per Run 2	22,972.298 ppb	88.837 %	88.496 %	0.134 ppb	26.749 ppb	100.575 %
Concentration per Run 3	22,751.064 ppb	89.771 %	85.355 %	0.117 ppb	26.960 ppb	100.594 %
Concentration RSD	0.6 %	2.7 %	5.4 %	35.5 %	3.1 %	0.2 %

Alpha ICPMSQ2 Data with SRD

3/6/2024 5:39:21 AM

Analysis index:	31	User name	ALPHALAB\a2-icpmsq2	Comment	<Comment>
Analysis label:	I2410713-07D2 A2-6020T	Rack	3		
Analysis started at:	3/5/2024 10:57:52 PM	Vial	1		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	107.281 %	108.163 %	0.066 ppb	37,050.128 ppb	600.916 ppb	4,246.495 ppb	13,312.573 ppb	4,253.343 ppb	90.484 %
Concentration per Run 1	106.770 %	104.082 %	0.059 ppb	37,316.104 ppb	608.953 ppb	4,150.756 ppb	13,308.223 ppb	4,265.753 ppb	90.029 %
Concentration per Run 2	107.869 %	105.230 %	0.080 ppb	37,246.538 ppb	605.573 ppb	4,210.231 ppb	12,791.742 ppb	4,270.842 ppb	90.074 %
Concentration per Run 3	107.203 %	115.179 %	0.061 ppb	36,587.743 ppb	588.222 ppb	4,378.497 ppb	13,837.754 ppb	4,223.434 ppb	91.350 %
Concentration RSD	0.5 %	5.6 %	17.5 %	1.1 %	1.9 %	2.8 %	3.9 %	0.6 %	0.8 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.408 ppb	4.340 ppb	5.363 ppb	142.362 ppb	0.114 ppb	0.632 ppb	102.893 ppb	13,072.746 ppb	112.395 %
Concentration per Run 1	0.385 ppb	4.323 ppb	5.161 ppb	143.744 ppb	0.086 ppb	0.586 ppb	101.902 ppb	13,007.396 ppb	108.370 %
Concentration per Run 2	0.410 ppb	4.192 ppb	5.104 ppb	136.736 ppb	0.098 ppb	0.566 ppb	102.918 ppb	12,979.358 ppb	113.594 %
Concentration per Run 3	0.430 ppb	4.506 ppb	5.822 ppb	146.605 ppb	0.158 ppb	0.742 ppb	103.860 ppb	13,231.484 ppb	115.221 %
Concentration RSD	5.6 %	3.6 %	7.4 %	3.6 %	33.9 %	15.2 %	1.0 %	1.1 %	3.2 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	1.137 ppb	0.127 ppb	308.115 ppb	3.664 ppb	108.340 %	0.102 ppb	0.144 ppb	109.486 %	1.036 ppb
Concentration per Run 1	1.232 ppb	-0.039 ppb	300.999 ppb	3.463 ppb	105.530 %	0.109 ppb	0.143 ppb	106.315 %	1.006 ppb
Concentration per Run 2	1.082 ppb	-0.029 ppb	296.710 ppb	3.974 ppb	108.632 %	0.112 ppb	0.138 ppb	105.918 %	1.042 ppb
Concentration per Run 3	1.099 ppb	0.448 ppb	326.636 ppb	3.554 ppb	110.857 %	0.085 ppb	0.152 ppb	116.226 %	1.061 ppb
Concentration RSD	7.2 %	219.6 %	5.3 %	7.4 %	2.5 %	14.7 %	4.9 %	5.3 %	2.7 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	19,073.726 ppb	91.227 %	88.231 %	0.080 ppb	7.629 ppb	108.259 %
Concentration per Run 1	18,728.537 ppb	88.583 %	83.840 %	0.049 ppb	7.524 ppb	105.655 %
Concentration per Run 2	19,144.037 ppb	89.379 %	86.657 %	0.099 ppb	7.618 ppb	109.290 %
Concentration per Run 3	19,348.602 ppb	95.721 %	94.195 %	0.092 ppb	7.746 ppb	109.831 %
Concentration RSD	1.7 %	4.3 %	6.1 %	33.9 %	1.5 %	2.1 %

Alpha ICPMSQ2 Data with SRD

3/6/2024 5:39:21 AM

Analysis index:	32	User name	ALPHALAB\a2-icpmsq2	Comment	<Comment>
Analysis label:	I2410713-08D2 A2-6020T	Rack	3		
Analysis started at:	3/5/2024 11:02:21 PM	Vial	2		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	106.495 %	115.561 %	0.086 ppb	41,130.598 ppb	716.247 ppb	4,792.962 ppb	15,029.296 ppb	5,012.966 ppb	89.735 %
Concentration per Run 1	106.976 %	100.638 %	0.094 ppb	43,533.608 ppb	757.667 ppb	5,014.934 ppb	15,383.723 ppb	5,267.221 ppb	91.208 %
Concentration per Run 2	105.466 %	109.056 %	0.079 ppb	42,098.582 ppb	695.800 ppb	4,817.484 ppb	14,954.320 ppb	5,195.880 ppb	89.559 %
Concentration per Run 3	107.042 %	136.990 %	0.084 ppb	37,759.605 ppb	695.275 ppb	4,546.469 ppb	14,749.844 ppb	4,575.798 ppb	88.439 %
Concentration RSD	0.8 %	16.5 %	9.1 %	7.3 %	5.0 %	4.9 %	2.2 %	7.6 %	1.6 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.573 ppb	6.028 ppb	8.554 ppb	465.097 ppb	0.282 ppb	1.359 ppb	90.837 ppb	14,677.527 ppb	115.893 %
Concentration per Run 1	0.661 ppb	6.618 ppb	8.801 ppb	479.847 ppb	0.291 ppb	1.391 ppb	95.999 ppb	15,170.845 ppb	110.018 %
Concentration per Run 2	0.473 ppb	5.802 ppb	8.343 ppb	484.218 ppb	0.267 ppb	1.367 ppb	88.463 ppb	14,435.625 ppb	117.323 %
Concentration per Run 3	0.585 ppb	5.663 ppb	8.518 ppb	431.225 ppb	0.287 ppb	1.319 ppb	88.051 ppb	14,426.112 ppb	120.338 %
Concentration RSD	16.6 %	8.6 %	2.7 %	6.3 %	4.6 %	2.7 %	4.9 %	2.9 %	4.6 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	1.457 ppb	0.137 ppb	354.273 ppb	3.063 ppb	106.840 %	0.087 ppb	0.077 ppb	109.398 %	1.757 ppb
Concentration per Run 1	1.551 ppb	0.182 ppb	353.033 ppb	2.826 ppb	102.926 %	0.075 ppb	0.051 ppb	104.247 %	1.692 ppb
Concentration per Run 2	1.481 ppb	0.087 ppb	339.745 ppb	3.032 ppb	107.270 %	0.095 ppb	0.084 ppb	105.193 %	1.869 ppb
Concentration per Run 3	1.340 ppb	0.142 ppb	370.042 ppb	3.331 ppb	110.322 %	0.091 ppb	0.096 ppb	118.754 %	1.708 ppb
Concentration RSD	7.4 %	34.6 %	4.3 %	8.3 %	3.5 %	12.1 %	29.8 %	7.4 %	5.5 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	22,171.714 ppb	89.170 %	84.881 %	0.082 ppb	6.044 ppb	102.228 %
Concentration per Run 1	22,156.685 ppb	86.621 %	81.800 %	0.055 ppb	5.841 ppb	101.752 %
Concentration per Run 2	22,324.570 ppb	88.464 %	83.612 %	0.095 ppb	6.184 ppb	100.110 %
Concentration per Run 3	22,033.888 ppb	92.426 %	89.232 %	0.097 ppb	6.107 ppb	104.823 %
Concentration RSD	0.7 %	3.3 %	4.6 %	28.8 %	3.0 %	2.3 %

Alpha ICPMSQ2 Data with SRD

3/6/2024 5:39:21 AM

Analysis index:	33	User name	ALPHALAB\a2-icpmsq2	Comment	<Comment>
Analysis label:	I2410713-09D2 A2-6020T	Rack	3		
Analysis started at:	3/5/2024 11:06:49 PM	Vial	3		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	107.388 %	108.418 %	0.074 ppb	37,712.470 ppb	643.242 ppb	4,636.600 ppb	13,630.547 ppb	4,384.583 ppb	91.271 %
Concentration per Run 1	107.583 %	106.760 %	0.069 ppb	37,941.322 ppb	662.400 ppb	4,663.079 ppb	13,523.145 ppb	4,672.419 ppb	89.952 %
Concentration per Run 2	107.053 %	107.908 %	0.071 ppb	36,670.132 ppb	621.570 ppb	4,535.921 ppb	13,226.261 ppb	4,238.945 ppb	92.681 %
Concentration per Run 3	107.529 %	110.587 %	0.083 ppb	38,525.956 ppb	645.756 ppb	4,710.801 ppb	14,142.234 ppb	4,242.385 ppb	91.180 %
Concentration RSD	0.3 %	1.8 %	10.4 %	2.5 %	3.2 %	1.9 %	3.4 %	5.7 %	1.5 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.349 ppb	5.287 ppb	9.070 ppb	288.467 ppb	0.299 ppb	6.206 ppb	245.330 ppb	13,786.530 ppb	110.067 %
Concentration per Run 1	0.653 ppb	5.442 ppb	9.199 ppb	310.767 ppb	0.323 ppb	6.874 ppb	263.022 ppb	14,606.633 ppb	99.458 %
Concentration per Run 2	0.167 ppb	5.084 ppb	9.018 ppb	263.785 ppb	0.292 ppb	5.984 ppb	241.252 ppb	13,618.228 ppb	110.125 %
Concentration per Run 3	0.227 ppb	5.337 ppb	8.993 ppb	290.849 ppb	0.280 ppb	5.758 ppb	231.715 ppb	13,134.730 ppb	120.619 %
Concentration RSD	75.9 %	3.5 %	1.2 %	8.2 %	7.4 %	9.5 %	6.5 %	5.4 %	9.6 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	1.262 ppb	0.070 ppb	322.982 ppb	2.602 ppb	107.466 %	0.184 ppb	0.095 ppb	110.736 %	1.393 ppb
Concentration per Run 1	1.411 ppb	0.175 ppb	325.354 ppb	2.766 ppb	103.680 %	0.185 ppb	0.110 ppb	106.133 %	1.380 ppb
Concentration per Run 2	1.246 ppb	0.097 ppb	316.035 ppb	2.315 ppb	107.361 %	0.191 ppb	0.111 ppb	108.607 %	1.374 ppb
Concentration per Run 3	1.128 ppb	-0.063 ppb	327.556 ppb	2.726 ppb	111.357 %	0.174 ppb	0.065 ppb	117.468 %	1.426 ppb
Concentration RSD	11.3 %	174.6 %	1.9 %	9.6 %	3.6 %	4.7 %	27.5 %	5.4 %	2.0 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	19,345.017 ppb	91.901 %	88.747 %	0.060 ppb	14.250 ppb	103.590 %
Concentration per Run 1	19,544.611 ppb	88.886 %	83.948 %	0.041 ppb	14.169 ppb	101.117 %
Concentration per Run 2	19,148.833 ppb	88.745 %	87.127 %	0.071 ppb	14.478 ppb	101.812 %
Concentration per Run 3	19,341.607 ppb	98.073 %	95.166 %	0.067 ppb	14.102 ppb	107.840 %
Concentration RSD	1.0 %	5.8 %	6.5 %	26.6 %	1.4 %	3.6 %

Alpha ICPMSQ2 Data with SRD

3/6/2024 5:39:21 AM

Analysis index:	34	User name	ALPHALAB\a2-icpmsq2	Comment	<Comment>
Analysis label:	I2410713-10D2 A2-6020T	Rack	3		
Analysis started at:	3/5/2024 11:11:18 PM	Vial	4		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	102.554 %	108.929 %	0.081 ppb	41,662.250 ppb	670.072 ppb	5,300.214 ppb	15,595.944 ppb	5,043.450 ppb	78.489 %
Concentration per Run 1	98.626 %	110.969 %	0.067 ppb	41,763.098 ppb	670.330 ppb	5,359.357 ppb	15,908.449 ppb	5,516.967 ppb	74.627 %
Concentration per Run 2	103.742 %	109.821 %	0.089 ppb	42,064.539 ppb	697.625 ppb	5,250.843 ppb	15,352.090 ppb	4,967.895 ppb	78.428 %
Concentration per Run 3	105.292 %	105.995 %	0.085 ppb	41,159.115 ppb	642.260 ppb	5,290.442 ppb	15,527.295 ppb	4,645.489 ppb	82.410 %
Concentration RSD	3.4 %	2.4 %	14.4 %	1.1 %	4.1 %	1.0 %	1.8 %	8.7 %	5.0 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.281 ppb	5.547 ppb	7.126 ppb	326.465 ppb	0.079 ppb	1.324 ppb	118.833 ppb	15,894.208 ppb	104.481 %
Concentration per Run 1	0.247 ppb	5.946 ppb	7.469 ppb	348.917 ppb	0.061 ppb	1.398 ppb	125.161 ppb	16,742.736 ppb	99.371 %
Concentration per Run 2	0.334 ppb	5.196 ppb	6.923 ppb	308.027 ppb	0.101 ppb	1.282 ppb	117.405 ppb	15,650.545 ppb	108.456 %
Concentration per Run 3	0.261 ppb	5.499 ppb	6.987 ppb	322.451 ppb	0.076 ppb	1.291 ppb	113.932 ppb	15,289.342 ppb	105.615 %
Concentration RSD	16.7 %	6.8 %	4.2 %	6.4 %	25.7 %	4.9 %	4.8 %	4.8 %	4.4 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	1.601 ppb	0.047 ppb	368.808 ppb	1.354 ppb	102.766 %	0.072 ppb	0.143 ppb	101.456 %	0.895 ppb
Concentration per Run 1	1.646 ppb	0.061 ppb	383.556 ppb	1.554 ppb	100.433 %	0.080 ppb	0.147 ppb	95.346 %	0.938 ppb
Concentration per Run 2	1.470 ppb	0.196 ppb	357.403 ppb	1.172 ppb	107.942 %	0.068 ppb	0.156 ppb	104.983 %	0.921 ppb
Concentration per Run 3	1.687 ppb	-0.115 ppb	365.465 ppb	1.335 ppb	99.924 %	0.067 ppb	0.126 ppb	104.039 %	0.826 ppb
Concentration RSD	7.2 %	332.0 %	3.6 %	14.2 %	4.4 %	10.0 %	10.7 %	5.2 %	6.8 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	23,273.447 ppb	84.829 %	81.244 %	0.078 ppb	10.315 ppb	92.277 %
Concentration per Run 1	25,080.832 ppb	79.704 %	76.662 %	0.064 ppb	10.384 ppb	92.728 %
Concentration per Run 2	22,544.616 ppb	89.356 %	84.386 %	0.090 ppb	10.294 ppb	94.784 %
Concentration per Run 3	22,194.894 ppb	85.428 %	82.685 %	0.081 ppb	10.268 ppb	89.318 %
Concentration RSD	6.8 %	5.7 %	5.0 %	17.3 %	0.6 %	3.0 %

Alpha ICPMSQ2 Data with SRD

3/6/2024 5:39:21 AM

Analysis index:	35	User name	ALPHALAB\a2-icpmsq2	Comment	<Comment>
Analysis label:	I2410713-11D2 A2-6020T	Rack	3		
Analysis started at:	3/5/2024 11:15:46 PM	Vial	5		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	101.989 %	101.658 %	0.101 ppb	47,174.194 ppb	776.172 ppb	6,141.240 ppb	16,461.205 ppb	5,310.719 ppb	83.551 %
Concentration per Run 1	102.484 %	108.674 %	0.109 ppb	43,572.068 ppb	735.519 ppb	5,731.641 ppb	15,216.839 ppb	5,254.907 ppb	83.948 %
Concentration per Run 2	102.225 %	89.923 %	0.101 ppb	52,127.018 ppb	868.729 ppb	6,764.963 ppb	18,001.290 ppb	5,561.732 ppb	83.162 %
Concentration per Run 3	101.258 %	106.378 %	0.093 ppb	45,823.495 ppb	724.267 ppb	5,927.117 ppb	16,165.485 ppb	5,115.517 ppb	83.543 %
Concentration RSD	0.6 %	10.1 %	8.0 %	9.4 %	10.4 %	8.9 %	8.6 %	4.3 %	0.5 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.517 ppb	6.139 ppb	8.719 ppb	444.880 ppb	0.131 ppb	1.064 ppb	30.480 ppb	17,356.663 ppb	100.673 %
Concentration per Run 1	0.327 ppb	5.409 ppb	8.385 ppb	402.679 ppb	0.151 ppb	0.979 ppb	28.717 ppb	16,491.013 ppb	103.773 %
Concentration per Run 2	0.734 ppb	6.811 ppb	9.811 ppb	512.145 ppb	0.122 ppb	1.182 ppb	34.001 ppb	18,329.091 ppb	96.881 %
Concentration per Run 3	0.490 ppb	6.197 ppb	7.960 ppb	419.816 ppb	0.119 ppb	1.032 ppb	28.721 ppb	17,249.883 ppb	101.365 %
Concentration RSD	39.7 %	11.4 %	11.1 %	13.2 %	13.4 %	9.9 %	10.0 %	5.3 %	3.5 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	1.877 ppb	0.059 ppb	394.364 ppb	1.069 ppb	98.266 %	0.031 ppb	0.125 ppb	98.860 %	1.379 ppb
Concentration per Run 1	1.914 ppb	0.003 ppb	388.208 ppb	1.080 ppb	95.209 %	0.032 ppb	0.103 ppb	95.228 %	1.390 ppb
Concentration per Run 2	1.857 ppb	0.046 ppb	405.971 ppb	1.010 ppb	97.445 %	0.028 ppb	0.116 ppb	101.112 %	1.344 ppb
Concentration per Run 3	1.858 ppb	0.129 ppb	388.913 ppb	1.118 ppb	102.143 %	0.035 ppb	0.155 ppb	100.240 %	1.402 ppb
Concentration RSD	1.7 %	107.2 %	2.6 %	5.1 %	3.6 %	11.9 %	21.5 %	3.2 %	2.2 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	24,770.400 ppb	80.493 %	76.772 %	0.083 ppb	7.685 ppb	93.402 %
Concentration per Run 1	25,221.922 ppb	78.121 %	73.894 %	0.065 ppb	7.407 ppb	93.917 %
Concentration per Run 2	24,617.593 ppb	81.153 %	76.898 %	0.098 ppb	7.866 ppb	91.544 %
Concentration per Run 3	24,471.687 ppb	82.205 %	79.524 %	0.086 ppb	7.781 ppb	94.744 %
Concentration RSD	1.6 %	2.6 %	3.7 %	20.1 %	3.2 %	1.8 %

Alpha ICPMSQ2 Data with SRD

3/6/2024 5:39:21 AM

Analysis index:	36	User name	ALPHALAB\a2-icpmsq2	Comment	<Comment>
Analysis label:	I2410713-12D2 A2-6020T	Rack	3		
Analysis started at:	3/5/2024 11:20:15 PM	Vial	6		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	99.587 %	101.148 %	0.100 ppb	46,924.247 ppb	848.119 ppb	6,174.389 ppb	16,940.717 ppb	5,821.538 ppb	81.543 %
Concentration per Run 1	99.503 %	100.638 %	0.091 ppb	45,716.849 ppb	805.141 ppb	6,060.433 ppb	16,417.711 ppb	5,718.278 ppb	81.765 %
Concentration per Run 2	99.127 %	94.515 %	0.091 ppb	49,162.413 ppb	883.462 ppb	6,474.292 ppb	17,512.822 ppb	5,895.571 ppb	81.698 %
Concentration per Run 3	100.132 %	108.291 %	0.118 ppb	45,893.479 ppb	855.755 ppb	5,988.441 ppb	16,891.618 ppb	5,850.765 ppb	81.168 %
Concentration RSD	0.5 %	6.8 %	15.6 %	4.1 %	4.7 %	4.2 %	3.2 %	1.6 %	0.4 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	12.011 ppb	6.361 ppb	10.542 ppb	469.851 ppb	0.255 ppb	5.118 ppb	73.702 ppb	17,777.857 ppb	97.463 %
Concentration per Run 1	11.488 ppb	5.739 ppb	10.633 ppb	457.585 ppb	0.287 ppb	5.522 ppb	74.003 ppb	17,454.254 ppb	95.989 %
Concentration per Run 2	13.189 ppb	6.880 ppb	10.426 ppb	488.293 ppb	0.231 ppb	5.181 ppb	72.700 ppb	18,113.436 ppb	97.810 %
Concentration per Run 3	11.355 ppb	6.464 ppb	10.567 ppb	463.676 ppb	0.247 ppb	4.649 ppb	74.403 ppb	17,765.882 ppb	98.590 %
Concentration RSD	8.5 %	9.1 %	1.0 %	3.5 %	11.3 %	8.6 %	1.2 %	1.9 %	1.4 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	1.953 ppb	0.134 ppb	407.095 ppb	2.585 ppb	95.101 %	0.325 ppb	0.115 ppb	95.703 %	1.423 ppb
Concentration per Run 1	1.900 ppb	0.297 ppb	400.412 ppb	2.917 ppb	92.322 %	0.301 ppb	0.100 ppb	94.299 %	1.385 ppb
Concentration per Run 2	2.005 ppb	0.101 ppb	410.713 ppb	2.255 ppb	95.099 %	0.332 ppb	0.118 ppb	95.060 %	1.470 ppb
Concentration per Run 3	1.956 ppb	0.003 ppb	410.160 ppb	2.584 ppb	97.883 %	0.341 ppb	0.128 ppb	97.751 %	1.413 ppb
Concentration RSD	2.7 %	111.7 %	1.4 %	12.8 %	2.9 %	6.6 %	12.1 %	1.9 %	3.0 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	25,289.942 ppb	78.391 %	75.209 %	0.082 ppb	9.423 ppb	91.232 %
Concentration per Run 1	24,997.119 ppb	75.277 %	73.023 %	0.055 ppb	9.053 ppb	91.214 %
Concentration per Run 2	25,388.134 ppb	79.211 %	75.285 %	0.099 ppb	9.578 ppb	90.382 %
Concentration per Run 3	25,484.572 ppb	80.684 %	77.320 %	0.094 ppb	9.637 ppb	92.099 %
Concentration RSD	1.0 %	3.6 %	2.9 %	29.4 %	3.4 %	0.9 %

Alpha ICPMSQ2 Data with SRD

3/6/2024 5:39:21 AM

Analysis index:	37	User name	ALPHALAB\a2-icpmsq2	Comment	<Comment>
Analysis label:	I2410713-13D2 A2-6020T	Rack	3		
Analysis started at:	3/5/2024 11:24:43 PM	Vial	7		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	98.374 %	101.020 %	0.105 ppb	44,718.649 ppb	800.179 ppb	5,967.270 ppb	16,479.734 ppb	5,511.199 ppb	75.752 %
Concentration per Run 1	98.006 %	99.872 %	0.115 ppb	45,589.208 ppb	833.772 ppb	6,049.449 ppb	16,979.074 ppb	5,970.340 ppb	75.485 %
Concentration per Run 2	98.137 %	107.908 %	0.092 ppb	41,169.294 ppb	729.062 ppb	5,531.946 ppb	15,110.591 ppb	4,725.548 ppb	77.045 %
Concentration per Run 3	98.978 %	95.281 %	0.108 ppb	47,397.444 ppb	837.702 ppb	6,320.413 ppb	17,349.539 ppb	5,837.709 ppb	74.727 %
Concentration RSD	0.5 %	6.3 %	11.3 %	7.2 %	7.7 %	6.7 %	7.3 %	12.4 %	1.6 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	3.117 ppb	6.276 ppb	10.931 ppb	468.260 ppb	0.159 ppb	1.544 ppb	59.953 ppb	17,102.828 ppb	92.608 %
Concentration per Run 1	3.096 ppb	6.395 ppb	10.110 ppb	470.693 ppb	0.139 ppb	1.906 ppb	60.297 ppb	17,527.162 ppb	90.397 %
Concentration per Run 2	2.939 ppb	5.877 ppb	11.311 ppb	441.214 ppb	0.162 ppb	1.368 ppb	59.370 ppb	16,486.743 ppb	94.754 %
Concentration per Run 3	3.316 ppb	6.556 ppb	11.373 ppb	492.871 ppb	0.177 ppb	1.358 ppb	60.190 ppb	17,294.580 ppb	92.673 %
Concentration RSD	6.1 %	5.7 %	6.5 %	5.5 %	11.9 %	20.3 %	0.8 %	3.2 %	2.4 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	2.123 ppb	0.149 ppb	395.866 ppb	2.184 ppb	90.922 %	0.221 ppb	0.135 ppb	89.276 %	1.251 ppb
Concentration per Run 1	2.246 ppb	0.129 ppb	411.715 ppb	2.272 ppb	88.313 %	0.244 ppb	0.147 ppb	88.208 %	1.362 ppb
Concentration per Run 2	1.915 ppb	0.101 ppb	381.375 ppb	1.946 ppb	91.829 %	0.176 ppb	0.146 ppb	87.230 %	1.142 ppb
Concentration per Run 3	2.208 ppb	0.217 ppb	394.508 ppb	2.334 ppb	92.623 %	0.243 ppb	0.111 ppb	92.389 %	1.249 ppb
Concentration RSD	8.5 %	40.7 %	3.8 %	9.5 %	2.5 %	17.6 %	15.2 %	3.1 %	8.8 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	25,018.814 ppb	76.024 %	72.324 %	0.069 ppb	9.499 ppb	82.938 %
Concentration per Run 1	25,580.577 ppb	73.752 %	70.276 %	0.052 ppb	9.107 ppb	85.463 %
Concentration per Run 2	24,981.596 ppb	74.918 %	71.739 %	0.078 ppb	9.779 ppb	79.257 %
Concentration per Run 3	24,494.267 ppb	79.404 %	74.958 %	0.076 ppb	9.612 ppb	84.095 %
Concentration RSD	2.2 %	3.9 %	3.3 %	21.2 %	3.7 %	3.9 %

Alpha ICPMSQ2 Data with SRD

3/6/2024 5:39:21 AM

Analysis index:	38	User name	ALPHALAB\a2-icpmsq2	Comment	<Comment>
Analysis label:	I2410713-14D2 A2-6020T	Rack	3		
Analysis started at:	3/5/2024 11:29:11 PM	Vial	8		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	102.970 %	94.898 %	0.095 ppb	45,212.908 ppb	779.425 ppb	5,732.388 ppb	16,041.589 ppb	5,190.244 ppb	87.632 %
Concentration per Run 1	103.097 %	88.775 %	0.107 ppb	46,767.641 ppb	865.341 ppb	6,101.642 ppb	17,061.388 ppb	5,600.481 ppb	87.927 %
Concentration per Run 2	102.714 %	104.082 %	0.098 ppb	42,008.960 ppb	687.288 ppb	5,269.280 ppb	15,068.846 ppb	4,532.747 ppb	89.215 %
Concentration per Run 3	103.098 %	91.837 %	0.080 ppb	46,862.124 ppb	785.647 ppb	5,826.242 ppb	15,994.533 ppb	5,437.503 ppb	85.753 %
Concentration RSD	0.2 %	8.5 %	14.5 %	6.1 %	11.4 %	7.4 %	6.2 %	11.1 %	2.0 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	2.387 ppb	5.889 ppb	8.054 ppb	362.312 ppb	0.147 ppb	1.450 ppb	210.843 ppb	15,632.658 ppb	105.702 %
Concentration per Run 1	2.467 ppb	6.081 ppb	7.920 ppb	380.763 ppb	0.150 ppb	1.189 ppb	223.415 ppb	16,343.453 ppb	99.978 %
Concentration per Run 2	1.883 ppb	5.703 ppb	7.734 ppb	338.970 ppb	0.137 ppb	1.794 ppb	201.744 ppb	15,455.105 ppb	107.436 %
Concentration per Run 3	2.810 ppb	5.882 ppb	8.508 ppb	367.202 ppb	0.155 ppb	1.366 ppb	207.370 ppb	15,099.415 ppb	109.691 %
Concentration RSD	19.6 %	3.2 %	5.0 %	5.9 %	6.4 %	21.5 %	5.3 %	4.1 %	4.8 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	1.535 ppb	0.255 ppb	359.920 ppb	2.809 ppb	98.957 %	0.271 ppb	0.092 ppb	99.187 %	1.034 ppb
Concentration per Run 1	1.517 ppb	0.430 ppb	366.962 ppb	2.944 ppb	96.978 %	0.268 ppb	0.092 ppb	96.524 %	1.077 ppb
Concentration per Run 2	1.685 ppb	0.328 ppb	356.412 ppb	2.557 ppb	99.777 %	0.256 ppb	0.088 ppb	101.657 %	0.998 ppb
Concentration per Run 3	1.401 ppb	0.008 ppb	356.386 ppb	2.927 ppb	100.117 %	0.288 ppb	0.094 ppb	99.381 %	1.025 ppb
Concentration RSD	9.3 %	86.3 %	1.7 %	7.8 %	1.7 %	6.0 %	3.3 %	2.6 %	3.9 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	22,815.959 ppb	83.019 %	79.786 %	0.064 ppb	8.297 ppb	94.470 %
Concentration per Run 1	22,550.735 ppb	79.961 %	76.994 %	0.056 ppb	8.053 ppb	93.719 %
Concentration per Run 2	22,486.612 ppb	84.862 %	81.157 %	0.073 ppb	8.353 ppb	93.911 %
Concentration per Run 3	23,410.530 ppb	84.234 %	81.207 %	0.064 ppb	8.485 ppb	95.781 %
Concentration RSD	2.3 %	3.2 %	3.0 %	13.9 %	2.7 %	1.2 %

Alpha ICPMSQ2 Data with SRD

3/6/2024 5:39:21 AM

Analysis index:	39	User name	ALPHALAB\a2-icpmsq2	Comment	<Comment>
Analysis label:	CCV	Rack	0		
Analysis started at:	3/5/2024 11:33:40 PM	Vial	9		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	98.088 %	92.219 %	60.726 ppb	6,428.621 ppb	6,467.869 ppb	65.365 ppb	6,241.426 ppb	5,993.125 ppb	99.063 %
Concentration per Run 1	98.524 %	89.158 %	60.675 ppb	6,482.453 ppb	6,548.635 ppb	67.946 ppb	6,397.505 ppb	5,999.226 ppb	101.657 %
Concentration per Run 2	98.757 %	92.602 %	60.866 ppb	6,268.082 ppb	6,378.937 ppb	67.717 ppb	6,007.037 ppb	5,847.037 ppb	98.457 %
Concentration per Run 3	96.983 %	94.898 %	60.638 ppb	6,535.328 ppb	6,476.036 ppb	60.432 ppb	6,319.735 ppb	6,133.112 ppb	97.075 %
Recovery Percentage 1			101.211 %	107.144 %	107.798 %	108.942 %	104.024 %	99.885 %	
Concentration RSD	1.0 %	3.1 %	0.2 %	2.2 %	1.3 %	6.5 %	3.3 %	2.4 %	2.4 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	59.040 ppb	61.044 ppb	61.904 ppb	6,197.218 ppb	62.619 ppb	62.117 ppb	60.817 ppb	62.317 ppb	97.801 %
Concentration per Run 1	58.380 ppb	61.266 ppb	60.741 ppb	6,151.840 ppb	62.820 ppb	63.344 ppb	61.036 ppb	62.785 ppb	96.400 %
Concentration per Run 2	58.849 ppb	60.070 ppb	60.369 ppb	6,128.898 ppb	60.342 ppb	59.904 ppb	59.371 ppb	60.238 ppb	101.384 %
Concentration per Run 3	59.891 ppb	61.796 ppb	64.603 ppb	6,310.916 ppb	64.693 ppb	63.102 ppb	62.045 ppb	63.929 ppb	95.619 %
Recovery Percentage 1	98.400 %	101.740 %	103.173 %	103.287 %	104.364 %	103.528 %	101.362 %	103.862 %	
Concentration RSD	1.3 %	1.4 %	3.8 %	1.6 %	3.5 %	3.1 %	2.2 %	3.0 %	3.2 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	59.348 ppb	61.822 ppb	57.719 ppb	58.008 ppb	93.921 %	59.760 ppb	58.907 ppb	92.471 %	57.073 ppb
Concentration per Run 1	59.422 ppb	59.729 ppb	56.628 ppb	58.125 ppb	88.483 %	60.490 ppb	59.508 ppb	85.135 %	57.339 ppb
Concentration per Run 2	57.341 ppb	62.262 ppb	56.791 ppb	57.416 ppb	96.365 %	59.822 ppb	58.932 ppb	95.904 %	56.571 ppb
Concentration per Run 3	61.281 ppb	63.474 ppb	59.738 ppb	58.484 ppb	96.914 %	58.969 ppb	58.282 ppb	96.373 %	57.309 ppb
Recovery Percentage 1	98.913 %	103.036 %	96.199 %	96.680 %		99.601 %	98.179 %		95.121 %
Concentration RSD	3.3 %	3.1 %	3.0 %	0.9 %	5.0 %	1.3 %	1.0 %	6.9 %	0.8 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	59.276 ppb	90.720 %	88.258 %	59.448 ppb	61.149 ppb	88.473 %
Concentration per Run 1	59.505 ppb	85.428 %	83.555 %	58.716 ppb	59.498 ppb	86.443 %
Concentration per Run 2	60.034 ppb	91.757 %	91.382 %	59.750 ppb	61.973 ppb	88.013 %
Concentration per Run 3	58.291 ppb	94.974 %	89.837 %	59.877 ppb	61.976 ppb	90.962 %
Recovery Percentage 1	98.794 %			99.079 %	101.915 %	
Concentration RSD	1.5 %	5.4 %	4.7 %	1.1 %	2.3 %	2.6 %

Alpha ICPMSQ2 Data with SRD

3/6/2024 5:39:21 AM

Analysis index:	40	User name	ALPHALAB\a2-icpmsq2	Comment	<Comment>
Analysis label:	CCB	Rack	0		
Analysis started at:	3/5/2024 11:38:10 PM	Vial	10		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	102.745 %	95.153 %	0.008 ppb	-3.266 ppb	-0.673 ppb	0.522 ppb	7.070 ppb	3.145 ppb	98.418 %
Concentration per Run 1	101.877 %	85.332 %	0.009 ppb	-0.432 ppb	-0.741 ppb	0.610 ppb	22.611 ppb	-5.509 ppb	98.477 %
Concentration per Run 2	103.684 %	100.638 %	0.003 ppb	-3.857 ppb	-0.405 ppb	-0.112 ppb	4.272 ppb	7.535 ppb	99.654 %
Concentration per Run 3	102.674 %	99.490 %	0.013 ppb	-5.508 ppb	-0.874 ppb	1.069 ppb	-5.674 ppb	7.409 ppb	97.121 %
Recovery Percentage 1			1.618 %	-3.266 %	-0.962 %	5.224 %	7.070 %	3.145 %	
Concentration RSD	0.9 %	9.0 %	60.9 %	79.3 %	35.9 %	114.0 %	203.0 %	238.3 %	1.3 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.073 ppb	-0.009 ppb	-0.010 ppb	5.293 ppb	0.014 ppb	-0.048 ppb	-0.028 ppb	0.022 ppb	98.005 %
Concentration per Run 1	0.067 ppb	0.022 ppb	-0.046 ppb	4.685 ppb	0.016 ppb	0.033 ppb	-0.007 ppb	0.097 ppb	93.887 %
Concentration per Run 2	0.054 ppb	-0.005 ppb	0.040 ppb	7.050 ppb	0.008 ppb	-0.150 ppb	-0.038 ppb	0.066 ppb	99.284 %
Concentration per Run 3	0.098 ppb	-0.043 ppb	-0.022 ppb	4.145 ppb	0.020 ppb	-0.025 ppb	-0.039 ppb	-0.099 ppb	100.845 %
Recovery Percentage 1	1.465 %	-0.872 %	-0.955 %	10.586 %	2.894 %	-2.381 %	-2.795 %	0.430 %	
Concentration RSD	31.1 %	377.2 %	464.4 %	29.2 %	41.5 %	196.6 %	65.0 %	491.3 %	3.7 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.033 ppb	0.086 ppb	0.001 ppb	0.098 ppb	102.513 %	0.003 ppb	-0.005 ppb	100.309 %	0.096 ppb
Concentration per Run 1	0.002 ppb	0.078 ppb	0.014 ppb	0.051 ppb	96.837 %	0.001 ppb	-0.005 ppb	95.691 %	0.094 ppb
Concentration per Run 2	0.045 ppb	0.201 ppb	-0.005 ppb	0.171 ppb	104.649 %	0.006 ppb	-0.005 ppb	102.140 %	0.082 ppb
Concentration per Run 3	0.052 ppb	-0.021 ppb	-0.005 ppb	0.072 ppb	106.054 %	0.002 ppb	-0.005 ppb	103.096 %	0.113 ppb
Recovery Percentage 1	6.562 %	1.714 %	0.012 %	4.888 %		0.672 %	-2.271 %		2.407 %
Concentration RSD	82.1 %	129.5 %	913.7 %	65.6 %	4.8 %	101.9 %	0.0 %	4.0 %	16.3 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.340 ppb	100.549 %	100.802 %	0.299 ppb	0.016 ppb	91.928 %
Concentration per Run 1	0.385 ppb	93.308 %	92.359 %	0.212 ppb	0.022 ppb	85.671 %
Concentration per Run 2	0.222 ppb	100.653 %	103.309 %	0.374 ppb	0.015 ppb	93.195 %
Concentration per Run 3	0.414 ppb	107.685 %	106.737 %	0.310 ppb	0.012 ppb	96.916 %
Recovery Percentage 1	68.002 %			29.873 %	1.615 %	
Concentration RSD	30.4 %	7.1 %	7.4 %	27.3 %	30.9 %	6.2 %

Alpha ICPMSQ2 Data with SRD

3/6/2024 5:39:21 AM

Analysis index:	41	User name	ALPHALAB\a2-icpmsq2	Comment	<Comment>
Analysis label:	I2410713-15D2 A2-6020T	Rack	3		
Analysis started at:	3/5/2024 11:42:41 PM	Vial	9		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	101.836 %	98.724 %	0.089 ppb	46,300.641 ppb	902.206 ppb	5,804.734 ppb	16,617.680 ppb	5,796.953 ppb	85.706 %
Concentration per Run 1	101.877 %	86.862 %	0.109 ppb	49,200.840 ppb	930.801 ppb	6,173.487 ppb	17,511.396 ppb	6,304.180 ppb	86.947 %
Concentration per Run 2	101.426 %	101.786 %	0.069 ppb	45,445.984 ppb	879.269 ppb	5,763.724 ppb	16,401.423 ppb	5,719.580 ppb	84.033 %
Concentration per Run 3	102.205 %	107.526 %	0.089 ppb	44,255.100 ppb	896.548 ppb	5,476.992 ppb	15,940.222 ppb	5,367.100 ppb	86.137 %
Concentration RSD	0.4 %	10.8 %	22.3 %	5.6 %	2.9 %	6.0 %	4.9 %	8.2 %	1.8 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	2.369 ppb	6.810 ppb	10.658 ppb	581.857 ppb	0.277 ppb	2.457 ppb	153.204 ppb	16,678.533 ppb	104.278 %
Concentration per Run 1	2.420 ppb	6.971 ppb	11.330 ppb	601.798 ppb	0.306 ppb	2.308 ppb	156.173 ppb	16,882.109 ppb	102.319 %
Concentration per Run 2	2.602 ppb	6.759 ppb	11.737 ppb	565.108 ppb	0.263 ppb	2.668 ppb	151.436 ppb	16,896.287 ppb	103.967 %
Concentration per Run 3	2.085 ppb	6.698 ppb	8.906 ppb	578.664 ppb	0.261 ppb	2.395 ppb	152.002 ppb	16,257.204 ppb	106.548 %
Concentration RSD	11.1 %	2.1 %	14.4 %	3.2 %	9.2 %	7.6 %	1.7 %	2.2 %	2.0 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	1.894 ppb	0.397 ppb	379.703 ppb	7.085 ppb	97.429 %	0.124 ppb	0.446 ppb	98.774 %	1.827 ppb
Concentration per Run 1	1.934 ppb	0.274 ppb	367.010 ppb	7.315 ppb	93.266 %	0.102 ppb	0.486 ppb	91.256 %	1.877 ppb
Concentration per Run 2	1.831 ppb	0.358 ppb	387.199 ppb	6.990 ppb	98.766 %	0.125 ppb	0.414 ppb	102.489 %	1.849 ppb
Concentration per Run 3	1.916 ppb	0.559 ppb	384.899 ppb	6.951 ppb	100.254 %	0.143 ppb	0.439 ppb	102.576 %	1.754 ppb
Concentration RSD	2.9 %	36.9 %	2.9 %	2.8 %	3.8 %	16.7 %	8.2 %	6.6 %	3.5 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	24,206.937 ppb	81.511 %	76.961 %	0.157 ppb	22.580 ppb	94.921 %
Concentration per Run 1	23,803.193 ppb	77.157 %	72.945 %	0.103 ppb	21.934 ppb	92.979 %
Concentration per Run 2	24,295.445 ppb	83.635 %	78.575 %	0.195 ppb	22.830 ppb	96.089 %
Concentration per Run 3	24,522.172 ppb	83.740 %	79.363 %	0.174 ppb	22.976 ppb	95.697 %
Concentration RSD	1.5 %	4.6 %	4.5 %	30.5 %	2.5 %	1.8 %

Alpha ICPMSQ2 Data with SRD

3/6/2024 5:39:21 AM

Analysis index:	42	User name	ALPHALAB\a2-icpmsq2	Comment	<Comment>
Analysis label:	I2410713-16D2 A2-6020T	Rack	3		
Analysis started at:	3/5/2024 11:47:10 PM	Vial	10		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	102.811 %	104.975 %	0.080 ppb	38,512.742 ppb	706.900 ppb	4,798.145 ppb	13,859.966 ppb	4,645.852 ppb	85.628 %
Concentration per Run 1	101.571 %	101.403 %	0.092 ppb	37,323.405 ppb	733.589 ppb	4,632.439 ppb	13,313.512 ppb	4,549.917 ppb	85.267 %
Concentration per Run 2	103.149 %	110.969 %	0.074 ppb	37,764.460 ppb	648.448 ppb	4,718.139 ppb	13,700.696 ppb	4,469.866 ppb	85.917 %
Concentration per Run 3	103.714 %	102.551 %	0.075 ppb	40,450.360 ppb	738.664 ppb	5,043.858 ppb	14,565.692 ppb	4,917.775 ppb	85.699 %
Concentration RSD	1.1 %	5.0 %	12.5 %	4.4 %	7.2 %	4.5 %	4.6 %	5.1 %	0.4 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	1.581 ppb	5.804 ppb	8.648 ppb	424.501 ppb	0.265 ppb	2.828 ppb	331.109 ppb	14,388.881 ppb	103.693 %
Concentration per Run 1	1.493 ppb	5.563 ppb	8.372 ppb	415.943 ppb	0.184 ppb	2.739 ppb	337.141 ppb	14,241.988 ppb	102.840 %
Concentration per Run 2	1.455 ppb	5.699 ppb	8.945 ppb	429.766 ppb	0.280 ppb	3.200 ppb	339.908 ppb	14,699.347 ppb	101.779 %
Concentration per Run 3	1.797 ppb	6.151 ppb	8.626 ppb	427.795 ppb	0.332 ppb	2.545 ppb	316.279 ppb	14,225.309 ppb	106.462 %
Concentration RSD	11.9 %	5.3 %	3.3 %	1.8 %	28.4 %	11.9 %	3.9 %	1.9 %	2.4 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	1.461 ppb	0.268 ppb	334.381 ppb	4.456 ppb	98.698 %	0.193 ppb	0.104 ppb	96.952 %	1.276 ppb
Concentration per Run 1	1.416 ppb	0.065 ppb	328.862 ppb	4.613 ppb	93.497 %	0.197 ppb	0.114 ppb	89.139 %	1.308 ppb
Concentration per Run 2	1.428 ppb	0.383 ppb	340.444 ppb	4.462 ppb	100.142 %	0.217 ppb	0.093 ppb	100.931 %	1.221 ppb
Concentration per Run 3	1.539 ppb	0.356 ppb	333.836 ppb	4.292 ppb	102.456 %	0.164 ppb	0.106 ppb	100.784 %	1.299 ppb
Concentration RSD	4.7 %	65.7 %	1.7 %	3.6 %	4.7 %	13.8 %	10.0 %	7.0 %	3.8 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	20,934.416 ppb	82.128 %	77.941 %	0.107 ppb	8.425 ppb	93.560 %
Concentration per Run 1	20,795.143 ppb	75.755 %	72.581 %	0.067 ppb	8.174 ppb	88.205 %
Concentration per Run 2	21,072.579 ppb	84.868 %	79.757 %	0.129 ppb	8.642 ppb	94.896 %
Concentration per Run 3	20,935.525 ppb	85.760 %	81.485 %	0.124 ppb	8.460 ppb	97.580 %
Concentration RSD	0.7 %	6.7 %	6.1 %	32.4 %	2.8 %	5.2 %

Alpha ICPMSQ2 Data with SRD

3/6/2024 5:39:21 AM

Analysis index:	43	User name	ALPHALAB\a2-icpmsq2	Comment	<Comment>
Analysis label:	CCV	Rack	0		
Analysis started at:	3/5/2024 11:51:38 PM	Vial	9		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	101.853 %	106.633 %	61.393 ppb	6,021.654 ppb	6,056.138 ppb	62.816 ppb	5,971.185 ppb	5,928.009 ppb	97.615 %
Concentration per Run 1	101.835 %	102.934 %	60.967 ppb	6,182.545 ppb	6,060.466 ppb	65.049 ppb	6,306.782 ppb	6,100.630 ppb	99.691 %
Concentration per Run 2	102.309 %	109.056 %	61.270 ppb	5,785.671 ppb	5,934.906 ppb	60.790 ppb	5,774.291 ppb	5,785.143 ppb	101.185 %
Concentration per Run 3	101.415 %	107.908 %	61.943 ppb	6,096.747 ppb	6,173.040 ppb	62.608 ppb	5,832.481 ppb	5,898.253 ppb	91.969 %
Recovery Percentage 1			102.322 %	100.361 %	100.936 %	104.693 %	99.520 %	98.800 %	
Concentration RSD	0.4 %	3.1 %	0.8 %	3.5 %	2.0 %	3.4 %	4.9 %	2.7 %	5.1 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	58.219 ppb	60.125 ppb	61.812 ppb	6,056.434 ppb	62.157 ppb	62.687 ppb	61.329 ppb	63.274 ppb	102.295 %
Concentration per Run 1	59.770 ppb	62.013 ppb	63.966 ppb	6,227.858 ppb	63.647 ppb	65.164 ppb	62.686 ppb	66.281 ppb	97.771 %
Concentration per Run 2	56.883 ppb	59.148 ppb	61.727 ppb	6,088.763 ppb	63.535 ppb	63.119 ppb	60.996 ppb	62.209 ppb	102.566 %
Concentration per Run 3	58.004 ppb	59.213 ppb	59.742 ppb	5,852.681 ppb	59.287 ppb	59.777 ppb	60.305 ppb	61.333 ppb	106.546 %
Recovery Percentage 1	97.032 %	100.208 %	103.020 %	100.941 %	103.594 %	104.478 %	102.215 %	105.457 %	
Concentration RSD	2.5 %	2.7 %	3.4 %	3.1 %	4.0 %	4.3 %	2.0 %	4.2 %	4.3 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	61.657 ppb	59.516 ppb	58.375 ppb	59.793 ppb	100.718 %	60.435 ppb	60.171 ppb	96.962 %	58.366 ppb
Concentration per Run 1	62.171 ppb	61.840 ppb	60.238 ppb	60.594 ppb	99.098 %	61.182 ppb	60.406 ppb	95.587 %	59.029 ppb
Concentration per Run 2	63.331 ppb	59.102 ppb	56.258 ppb	58.672 ppb	99.232 %	60.447 ppb	59.976 ppb	95.535 %	57.910 ppb
Concentration per Run 3	59.468 ppb	57.607 ppb	58.630 ppb	60.112 ppb	103.825 %	59.674 ppb	60.132 ppb	99.764 %	58.159 ppb
Recovery Percentage 1	102.761 %	99.194 %	97.292 %	99.654 %		100.724 %	100.285 %		97.277 %
Concentration RSD	3.2 %	3.6 %	3.4 %	1.7 %	2.7 %	1.2 %	0.4 %	2.5 %	1.0 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	59.909 ppb	96.134 %	94.379 %	61.228 ppb	62.491 ppb	94.088 %
Concentration per Run 1	63.170 ppb	93.351 %	90.851 %	60.661 ppb	61.711 ppb	94.045 %
Concentration per Run 2	57.123 ppb	94.853 %	92.559 %	61.619 ppb	63.291 ppb	91.967 %
Concentration per Run 3	59.434 ppb	100.198 %	99.728 %	61.405 ppb	62.472 ppb	96.252 %
Recovery Percentage 1	99.848 %			102.047 %	104.152 %	
Concentration RSD	5.1 %	3.7 %	5.0 %	0.8 %	1.3 %	2.3 %

Alpha ICPMSQ2 Data with SRD

3/6/2024 5:39:21 AM

Analysis index:	44	User name	ALPHALAB\a2-icpmsq2	Comment	<Comment>
Analysis label:	CCB	Rack	0		
Analysis started at:	3/5/2024 11:56:09 PM	Vial	10		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	96.248 %	94.133 %	0.011 ppb	-0.513 ppb	-0.137 ppb	0.114 ppb	8.831 ppb	-5.492 ppb	91.289 %
Concentration per Run 1	94.912 %	88.010 %	0.004 ppb	4.138 ppb	-0.741 ppb	0.469 ppb	10.869 ppb	-16.756 ppb	90.757 %
Concentration per Run 2	97.534 %	97.959 %	0.019 ppb	-2.127 ppb	0.653 ppb	0.346 ppb	5.961 ppb	5.716 ppb	92.968 %
Concentration per Run 3	96.298 %	96.429 %	0.011 ppb	-3.549 ppb	-0.325 ppb	-0.473 ppb	9.663 ppb	-5.436 ppb	90.142 %
Recovery Percentage 1			2.242 %	-0.513 %	-0.196 %	1.139 %	8.831 %	-5.492 %	
Concentration RSD	1.4 %	5.7 %	63.8 %	797.8 %	520.5 %	449.2 %	29.0 %	204.6 %	1.6 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.108 ppb	0.001 ppb	0.024 ppb	9.333 ppb	0.003 ppb	-0.029 ppb	0.025 ppb	0.034 ppb	88.935 %
Concentration per Run 1	0.022 ppb	-0.018 ppb	0.132 ppb	5.035 ppb	0.003 ppb	-0.088 ppb	0.013 ppb	0.070 ppb	86.449 %
Concentration per Run 2	0.089 ppb	-0.007 ppb	-0.080 ppb	13.367 ppb	0.003 ppb	-0.010 ppb	0.053 ppb	0.142 ppb	89.658 %
Concentration per Run 3	0.212 ppb	0.028 ppb	0.019 ppb	9.598 ppb	0.002 ppb	0.011 ppb	0.008 ppb	-0.110 ppb	90.698 %
Recovery Percentage 1	2.153 %	0.076 %	2.376 %	18.667 %	0.521 %	-1.454 %	2.472 %	0.680 %	
Concentration RSD	89.3 %	3,148.9 %	446.0 %	44.7 %	8.3 %	178.4 %	98.0 %	382.1 %	2.5 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.032 ppb	0.021 ppb	-0.012 ppb	0.101 ppb	93.037 %	0.000 ppb	-0.005 ppb	91.781 %	0.080 ppb
Concentration per Run 1	0.048 ppb	0.043 ppb	-0.012 ppb	0.055 ppb	92.644 %	0.001 ppb	-0.005 ppb	89.558 %	0.038 ppb
Concentration per Run 2	-0.025 ppb	0.060 ppb	-0.003 ppb	0.116 ppb	93.364 %	-0.002 ppb	-0.005 ppb	91.493 %	0.106 ppb
Concentration per Run 3	0.073 ppb	-0.038 ppb	-0.020 ppb	0.131 ppb	93.102 %	0.002 ppb	-0.005 ppb	94.293 %	0.096 ppb
Recovery Percentage 1	6.425 %	0.429 %	-0.118 %	5.030 %		0.051 %	-2.271 %		1.997 %
Concentration RSD	158.7 %	245.3 %	72.2 %	40.2 %	0.4 %	1,125.0 %	0.0 %	2.6 %	46.1 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.370 ppb	91.336 %	91.046 %	0.302 ppb	0.016 ppb	85.256 %
Concentration per Run 1	0.321 ppb	90.009 %	89.545 %	0.203 ppb	0.016 ppb	87.122 %
Concentration per Run 2	0.381 ppb	90.221 %	89.568 %	0.389 ppb	0.016 ppb	82.198 %
Concentration per Run 3	0.407 ppb	93.778 %	94.025 %	0.315 ppb	0.015 ppb	86.449 %
Recovery Percentage 1	73.917 %			30.225 %	1.584 %	
Concentration RSD	11.9 %	2.3 %	2.8 %	31.0 %	2.9 %	3.1 %

Alpha ICPMSQ2 Data with SRD

3/6/2024 5:39:21 AM

Analysis index:	45	User name	ALPHALAB\a2-icpmsq2	Comment	<Comment>
Analysis label:	CCV	Rack	0		
Analysis started at:	3/6/2024 12:00:40 AM	Vial	9		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	98.352 %	98.214 %	61.715 ppb	6,045.986 ppb	6,054.608 ppb	63.517 ppb	5,961.432 ppb	5,809.886 ppb	95.293 %
Concentration per Run 1	97.509 %	104.847 %	62.027 ppb	5,810.910 ppb	5,918.434 ppb	60.402 ppb	5,782.944 ppb	5,720.834 ppb	93.711 %
Concentration per Run 2	98.244 %	89.541 %	61.824 ppb	6,237.235 ppb	6,120.676 ppb	64.046 ppb	6,001.038 ppb	5,880.248 ppb	95.458 %
Concentration per Run 3	99.304 %	100.255 %	61.294 ppb	6,089.814 ppb	6,124.713 ppb	66.103 ppb	6,100.312 ppb	5,828.574 ppb	96.710 %
Recovery Percentage 1			102.858 %	100.766 %	100.910 %	105.862 %	99.357 %	96.831 %	
Concentration RSD	0.9 %	8.0 %	0.6 %	3.6 %	1.9 %	4.5 %	2.7 %	1.4 %	1.6 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	57.602 ppb	59.706 ppb	60.817 ppb	6,004.152 ppb	59.937 ppb	61.120 ppb	61.032 ppb	61.614 ppb	94.413 %
Concentration per Run 1	54.338 ppb	58.029 ppb	60.211 ppb	5,976.285 ppb	58.868 ppb	60.250 ppb	59.435 ppb	62.201 ppb	93.492 %
Concentration per Run 2	59.012 ppb	61.655 ppb	61.074 ppb	6,035.690 ppb	62.562 ppb	62.400 ppb	63.879 ppb	62.055 ppb	90.503 %
Concentration per Run 3	59.455 ppb	59.434 ppb	61.166 ppb	6,000.481 ppb	58.383 ppb	60.710 ppb	59.781 ppb	60.586 ppb	99.245 %
Recovery Percentage 1	96.003 %	99.510 %	101.362 %	100.069 %	99.896 %	101.867 %	101.720 %	102.690 %	
Concentration RSD	4.9 %	3.1 %	0.9 %	0.5 %	3.8 %	1.9 %	4.1 %	1.4 %	4.7 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	60.653 ppb	61.850 ppb	58.628 ppb	58.846 ppb	94.745 %	58.721 ppb	59.982 ppb	92.704 %	57.683 ppb
Concentration per Run 1	62.543 ppb	63.105 ppb	58.862 ppb	60.709 ppb	94.116 %	59.295 ppb	61.608 ppb	93.025 %	57.105 ppb
Concentration per Run 2	59.921 ppb	61.076 ppb	58.170 ppb	58.803 ppb	94.556 %	58.045 ppb	58.759 ppb	92.919 %	57.493 ppb
Concentration per Run 3	59.494 ppb	61.370 ppb	58.851 ppb	57.025 ppb	95.562 %	58.824 ppb	59.578 ppb	92.167 %	58.451 ppb
Recovery Percentage 1	101.088 %	103.084 %	97.713 %	98.076 %		97.869 %	99.969 %		96.139 %
Concentration RSD	2.7 %	1.8 %	0.7 %	3.1 %	0.8 %	1.1 %	2.4 %	0.5 %	1.2 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	58.567 ppb	90.437 %	89.121 %	60.516 ppb	61.619 ppb	88.668 %
Concentration per Run 1	58.476 ppb	88.131 %	86.391 %	60.072 ppb	60.704 ppb	89.183 %
Concentration per Run 2	57.759 ppb	91.223 %	90.345 %	60.572 ppb	61.877 ppb	87.628 %
Concentration per Run 3	59.466 ppb	91.957 %	90.626 %	60.905 ppb	62.277 ppb	89.194 %
Recovery Percentage 1	97.611 %			100.861 %	102.699 %	
Concentration RSD	1.5 %	2.2 %	2.7 %	0.7 %	1.3 %	1.0 %

Alpha ICPMSQ2 Data with SRD

3/6/2024 5:39:21 AM

Analysis index:	46	User name	ALPHALAB\a2-icpmsq2	Comment	<Comment>
Analysis label:	CCB	Rack	0		
Analysis started at:	3/6/2024 12:05:10 AM	Vial	10		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	97.414 %	93.750 %	0.021 ppb	-2.620 ppb	-0.985 ppb	0.090 ppb	2.575 ppb	-4.605 ppb	93.507 %
Concentration per Run 1	96.686 %	97.194 %	0.011 ppb	-4.533 ppb	-1.327 ppb	0.212 ppb	-5.731 ppb	-5.755 ppb	92.292 %
Concentration per Run 2	97.474 %	88.393 %	0.008 ppb	-0.366 ppb	-1.303 ppb	0.119 ppb	11.153 ppb	-9.777 ppb	94.120 %
Concentration per Run 3	98.082 %	95.663 %	0.044 ppb	-2.963 ppb	-0.324 ppb	-0.059 ppb	2.303 ppb	1.718 ppb	94.107 %
Recovery Percentage 1			4.220 %	-2.620 %	-1.407 %	0.905 %	2.575 %	-4.605 %	
Concentration RSD	0.7 %	5.0 %	94.9 %	80.3 %	58.1 %	151.8 %	327.9 %	126.7 %	1.1 %

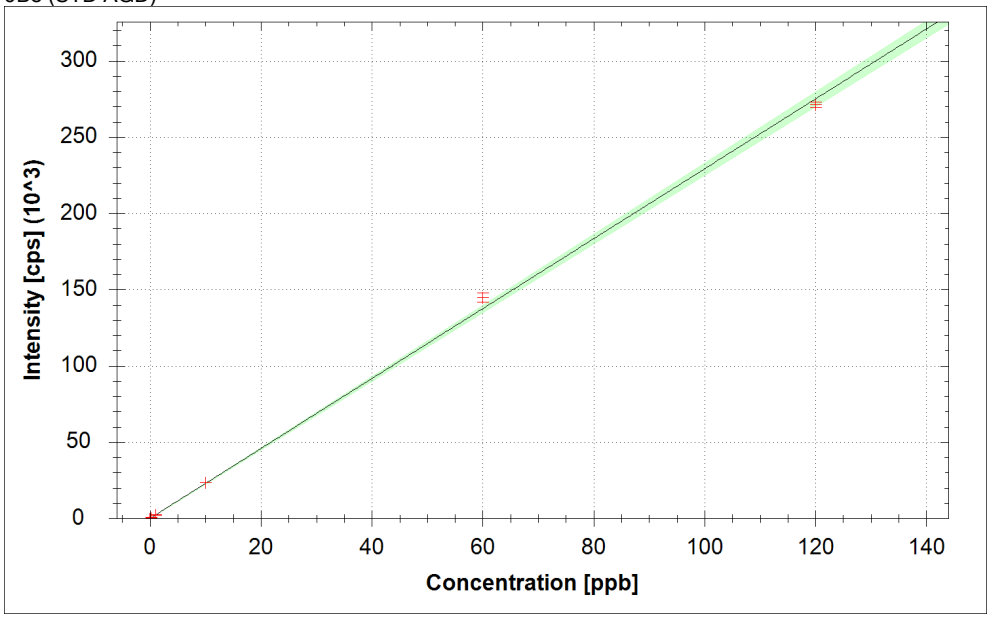
Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.127 ppb	-0.024 ppb	0.059 ppb	5.937 ppb	0.015 ppb	-0.127 ppb	-0.017 ppb	-0.187 ppb	93.843 %
Concentration per Run 1	0.040 ppb	-0.035 ppb	-0.014 ppb	2.802 ppb	0.016 ppb	-0.152 ppb	0.008 ppb	-0.159 ppb	90.591 %
Concentration per Run 2	0.157 ppb	-0.009 ppb	0.110 ppb	7.387 ppb	0.021 ppb	-0.164 ppb	-0.037 ppb	-0.154 ppb	98.330 %
Concentration per Run 3	0.184 ppb	-0.028 ppb	0.082 ppb	7.623 ppb	0.009 ppb	-0.064 ppb	-0.021 ppb	-0.249 ppb	92.607 %
Recovery Percentage 1	2.538 %	-2.397 %	5.935 %	11.875 %	3.021 %	-6.335 %	-1.670 %	-3.747 %	
Concentration RSD	60.4 %	57.2 %	109.7 %	45.8 %	40.2 %	43.0 %	138.6 %	28.6 %	4.3 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.067 ppb	-0.045 ppb	0.001 ppb	0.115 ppb	92.992 %	0.008 ppb	-0.003 ppb	89.080 %	0.120 ppb
Concentration per Run 1	0.062 ppb	-0.086 ppb	-0.002 ppb	0.134 ppb	90.528 %	0.004 ppb	0.001 ppb	87.551 %	0.091 ppb
Concentration per Run 2	0.037 ppb	-0.008 ppb	0.006 ppb	0.175 ppb	92.239 %	0.004 ppb	-0.005 ppb	85.245 %	0.128 ppb
Concentration per Run 3	0.101 ppb	-0.042 ppb	-0.002 ppb	0.036 ppb	96.210 %	0.015 ppb	-0.005 ppb	94.442 %	0.140 ppb
Recovery Percentage 1	13.360 %	-0.905 %	0.009 %	5.755 %		1.928 %	-1.431 %		2.995 %
Concentration RSD	48.3 %	87.0 %	537.3 %	61.9 %	3.1 %	84.9 %	101.7 %	5.4 %	21.1 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.357 ppb	92.282 %	91.772 %	0.329 ppb	0.012 ppb	86.214 %
Concentration per Run 1	0.329 ppb	88.362 %	87.626 %	0.208 ppb	0.007 ppb	85.644 %
Concentration per Run 2	0.282 ppb	92.015 %	91.159 %	0.417 ppb	0.018 ppb	84.968 %
Concentration per Run 3	0.461 ppb	96.470 %	96.530 %	0.361 ppb	0.009 ppb	88.029 %
Recovery Percentage 1	71.470 %			32.858 %	1.158 %	
Concentration RSD	26.0 %	4.4 %	4.9 %	32.9 %	48.1 %	1.9 %

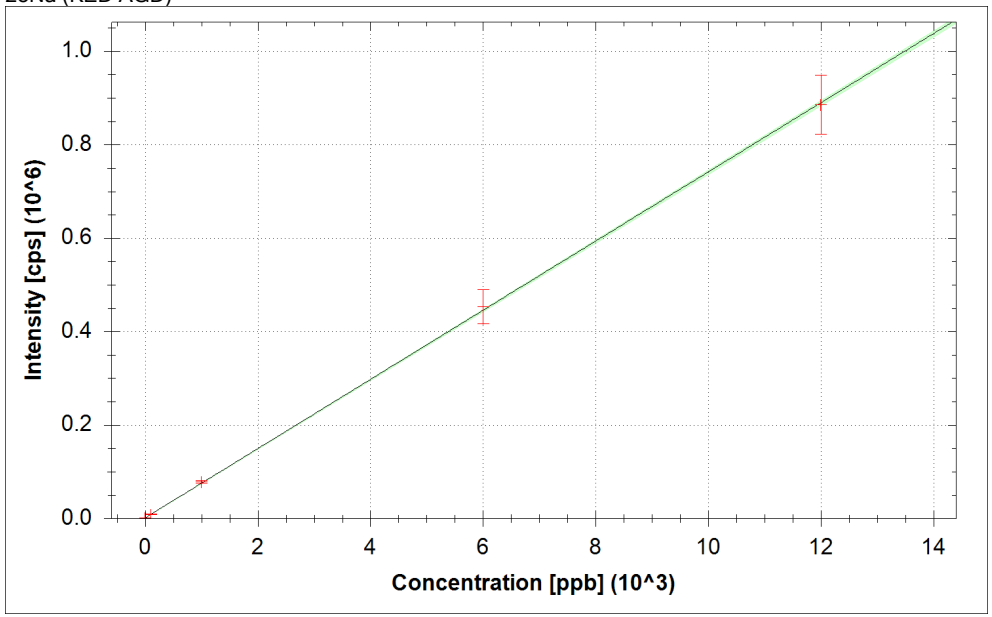
Calibration Curves:

9Be (STD AGD)



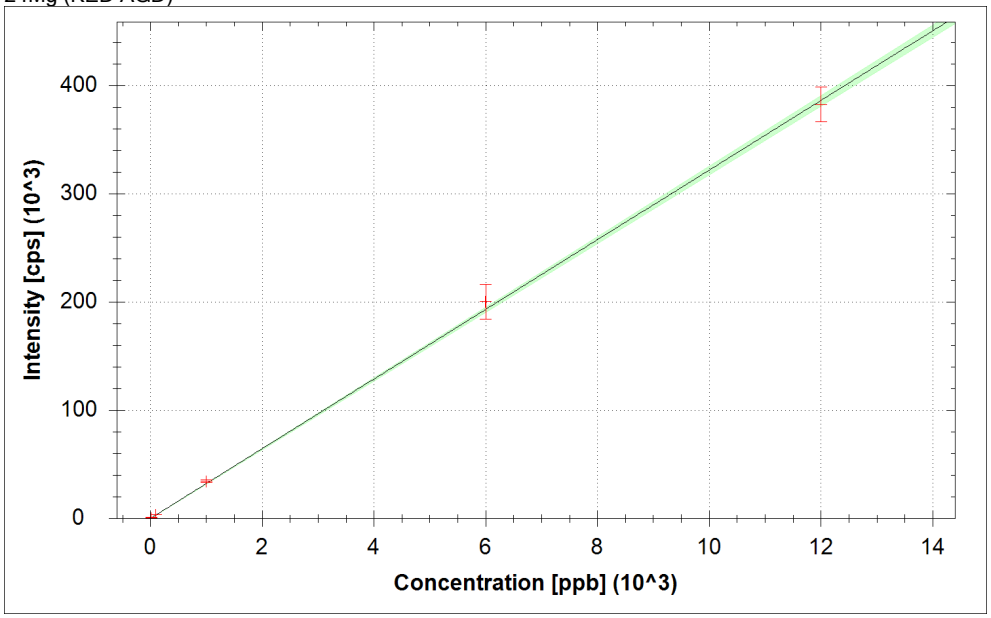
f(x) = 2291.8738*x + 36.0372
R² = 0.9989
BEC = 0.016 ppb
LoD = 0.0125 ppb

23Na (KED AGD)



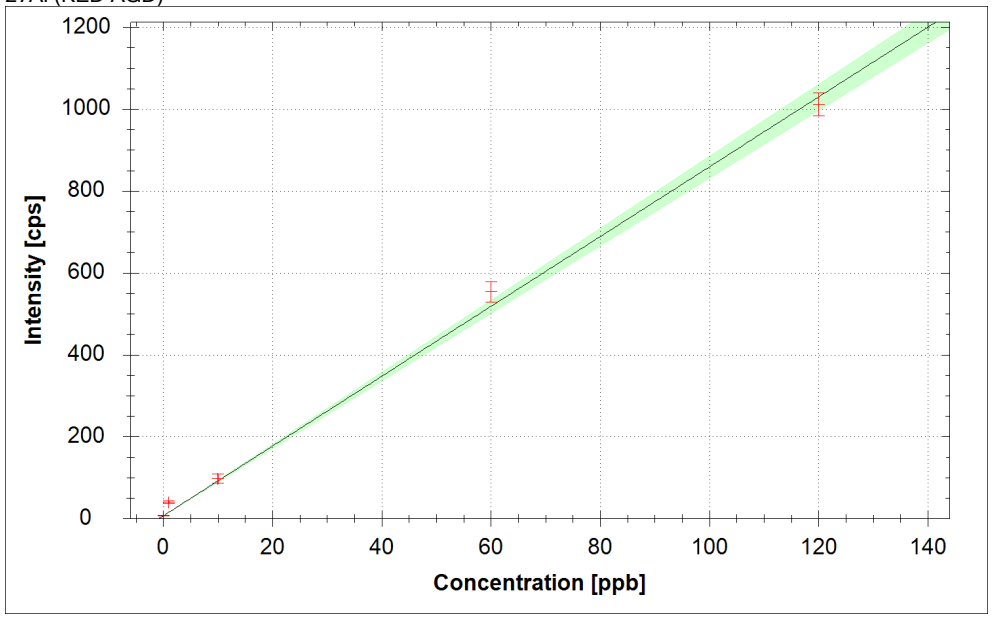
f(x) = 73.9918*x + 1462.9934
R² = 0.9999
BEC = 19.772 ppb
LoD = 3.9146 ppb

24Mg (KED AGD)



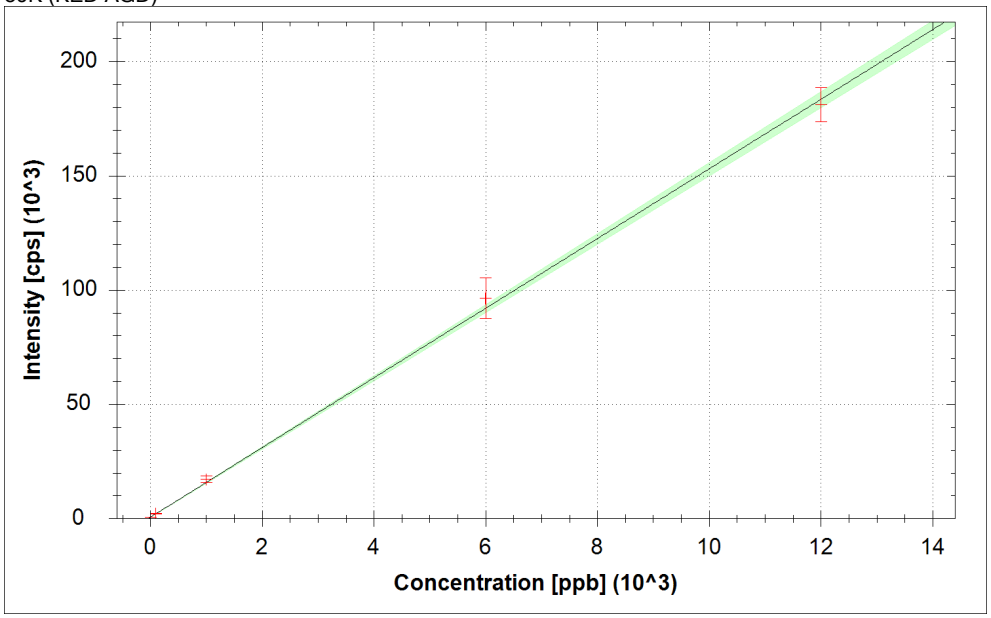
f(x) = 32.1792*x + 26.5761
R² = 0.9994
BEC = 0.826 ppb
LoD = 1.6349 ppb

27Al (KED AGD)



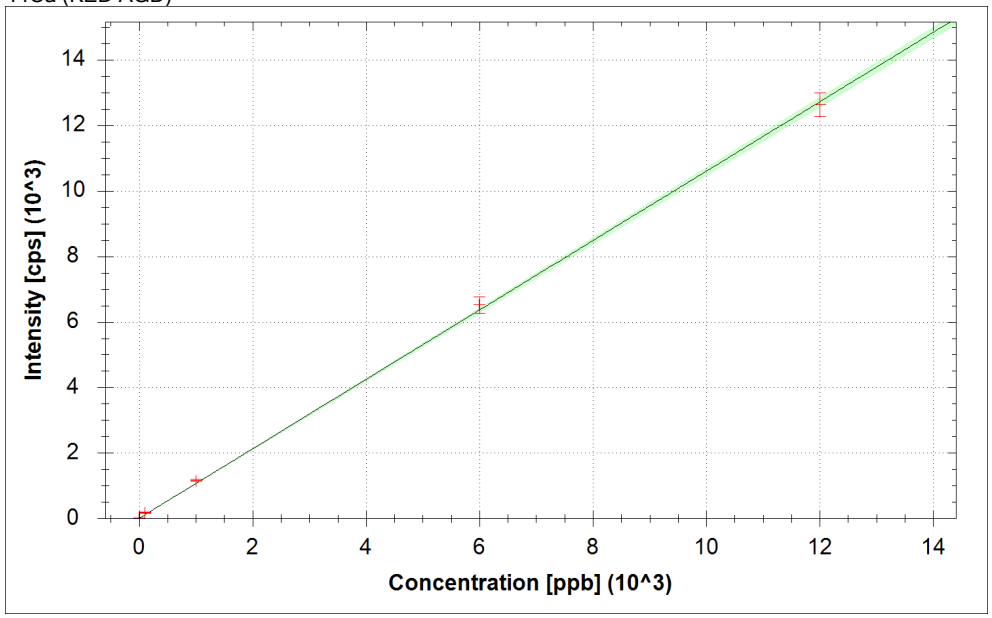
f(x) = 8.5237*x + 6.2267
R² = 0.9971
BEC = 0.731 ppb
LoD = 0.2876 ppb

39K (KED AGD)



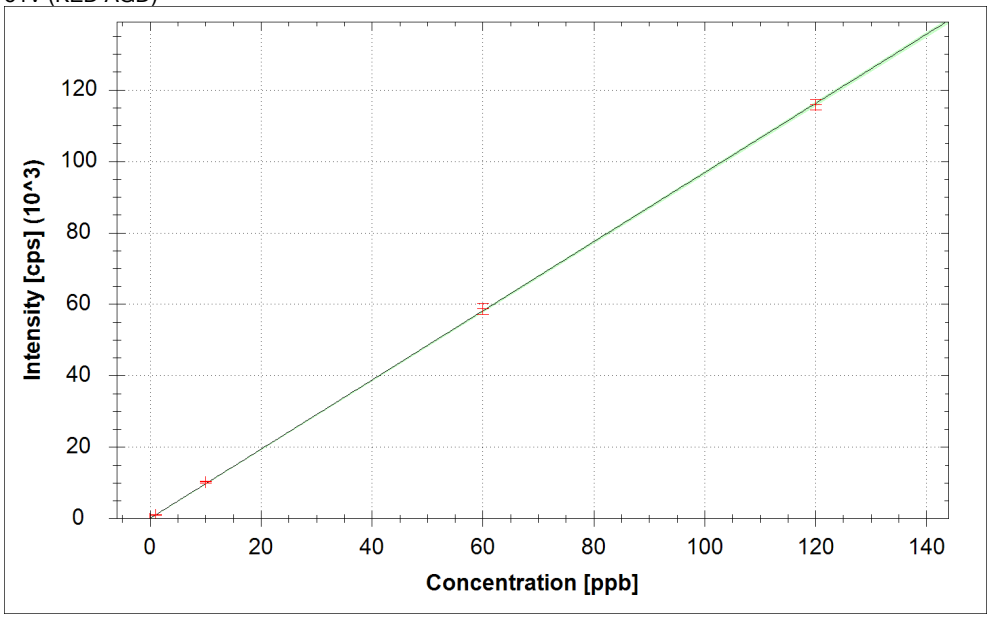
f(x) = 15.2364*x + 513.4850
R² = 0.9989
BEC = 33.701 ppb
LoD = 6.6536 ppb

44Ca (KED AGD)



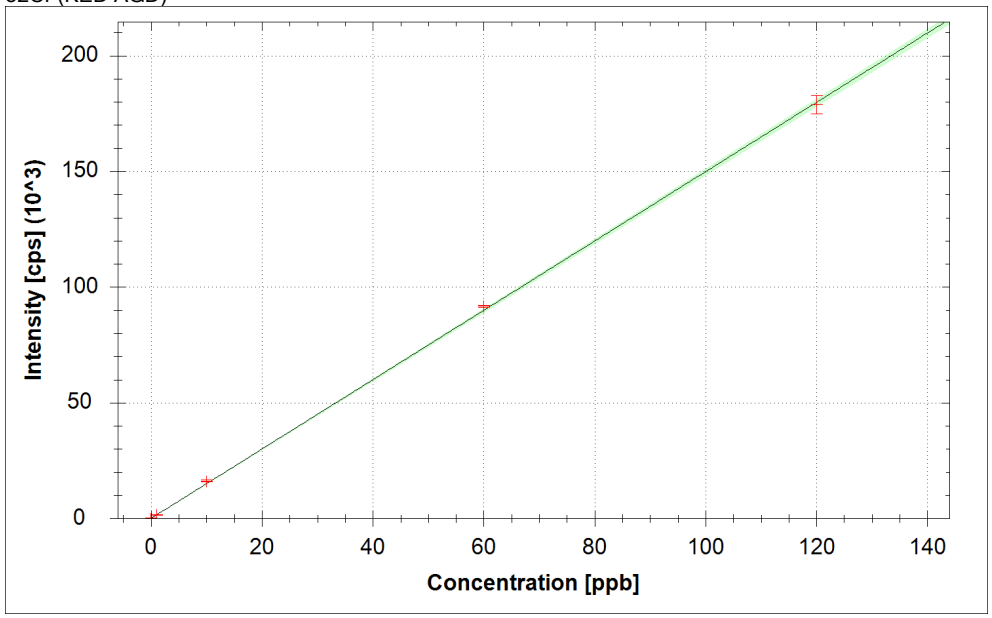
f(x) = 1.0593*x + 5.4728
R² = 0.9996
BEC = 5.166 ppb
LoD = 7.6651 ppb

51V (KED AGD)



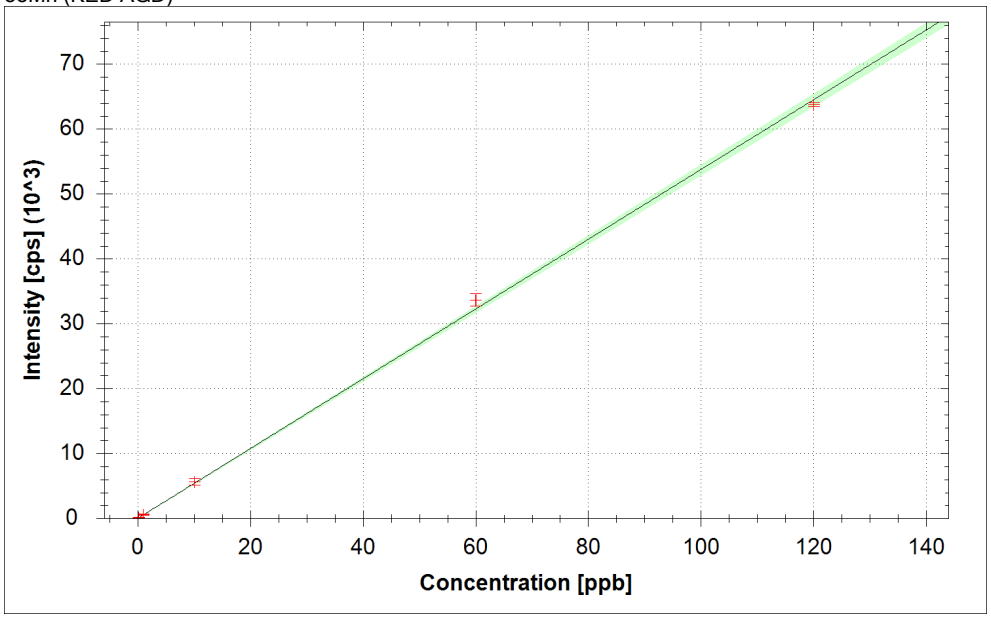
f(x) = 967.7586*x + 22.1913
R² = 0.9999
BEC = 0.023 ppb
LoD = 0.0314 ppb

52Cr (KED AGD)



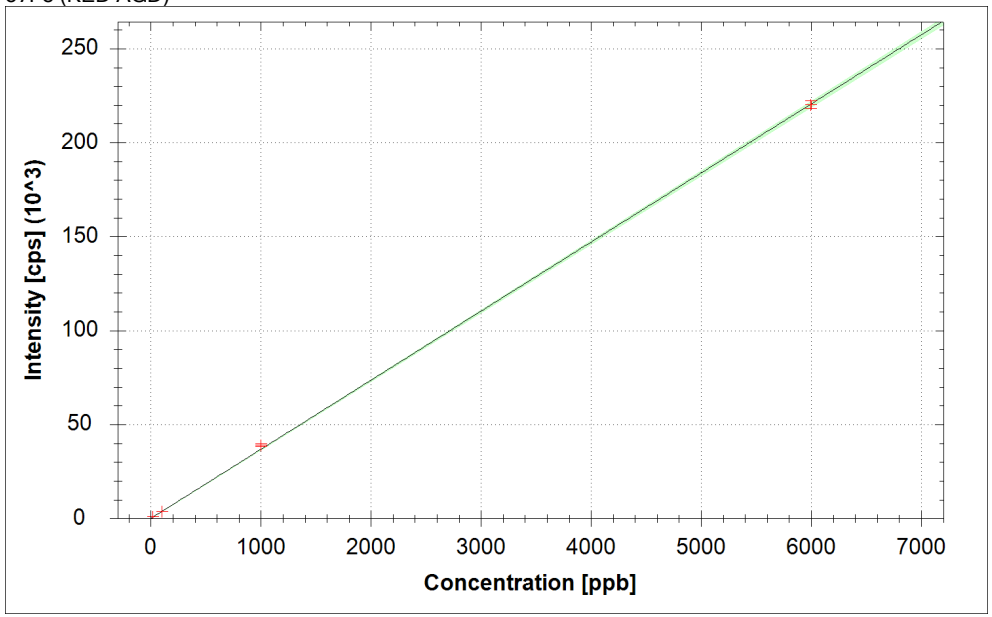
f(x) = 1497.6328*x + 47.7823
R² = 0.9998
BEC = 0.032 ppb
LoD = 0.0270 ppb

55Mn (KED AGD)



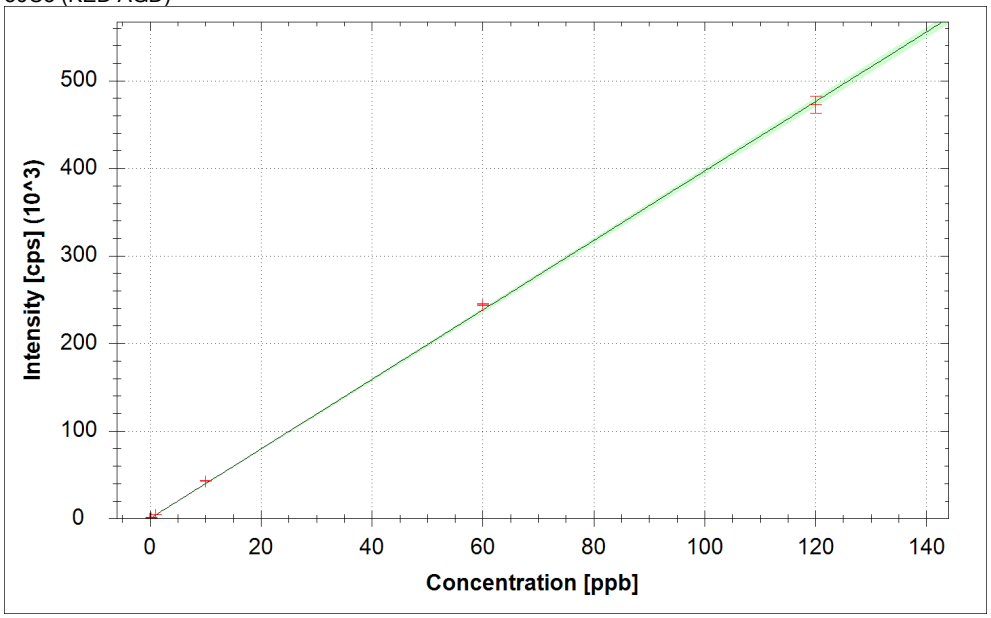
f(x) = 537.1641*x + 19.9701
R² = 0.9992
BEC = 0.037 ppb
LoD = 0.0367 ppb

57Fe (KED AGD)



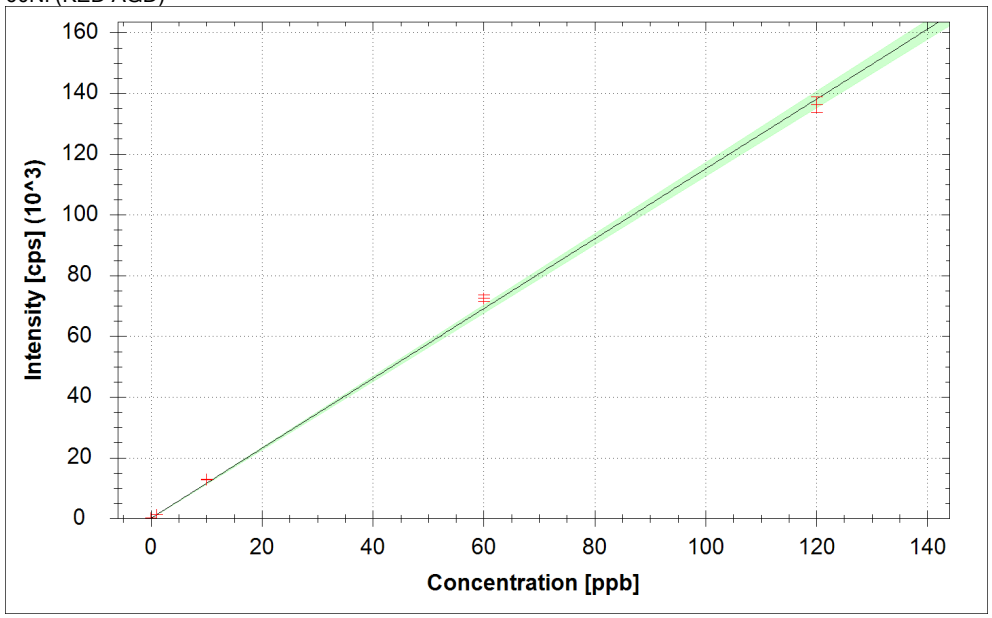
f(x) = 36.7490*x + 35.6555
R² = 0.9999
BEC = 0.970 ppb
LoD = 1.3848 ppb

59Co (KED AGD)



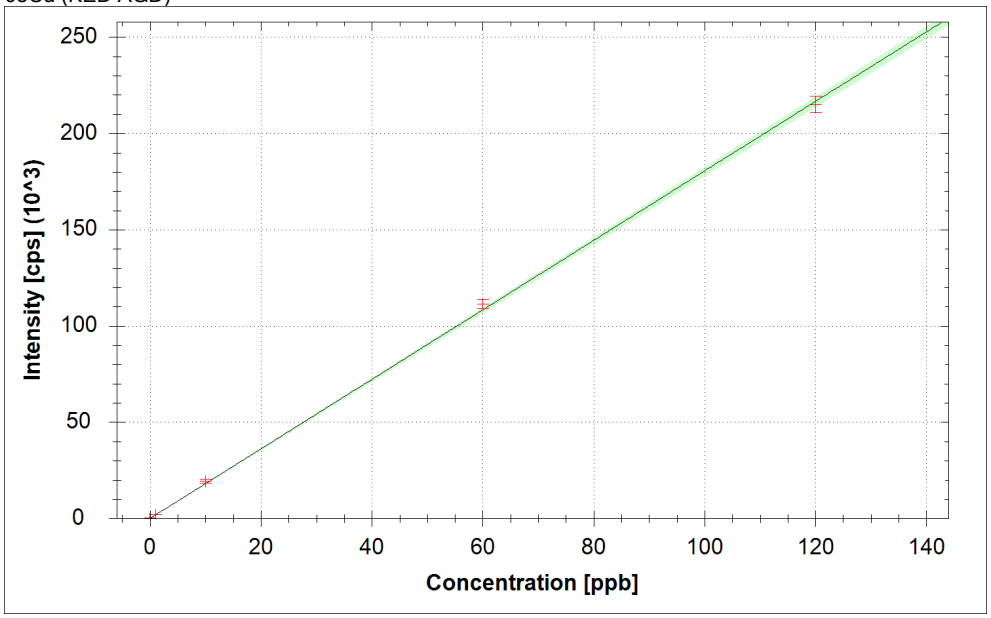
f(x) = 3966.5601*x + 8.8961
R² = 0.9997
BEC = 0.002 ppb
LoD = 0.0029 ppb

60Ni (KED AGD)



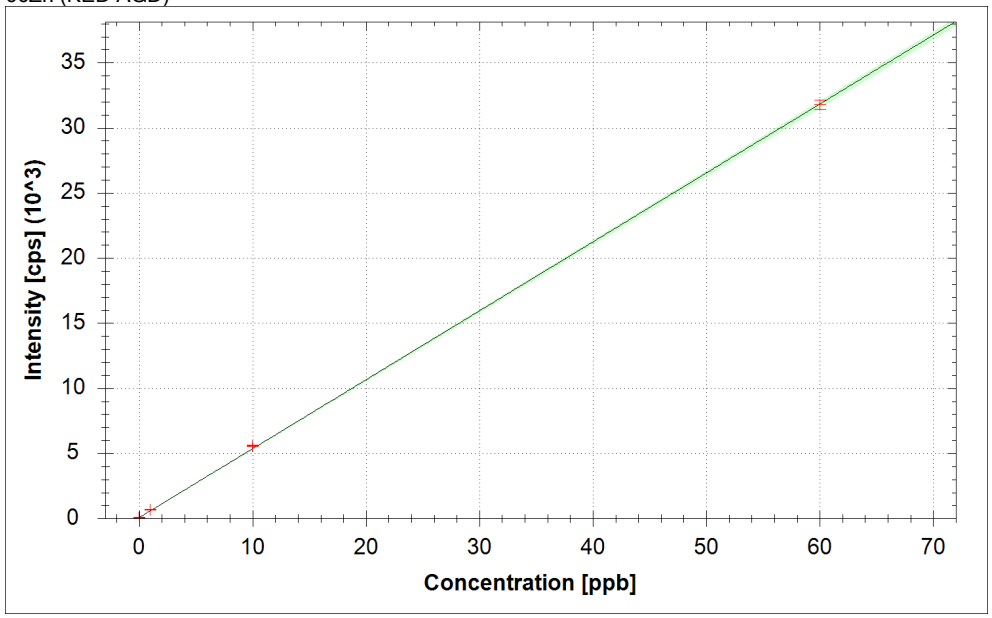
f(x) = 1149.8348*x + 75.6879
R² = 0.9989
BEC = 0.066 ppb
LoD = 0.0464 ppb

65Cu (KED AGD)



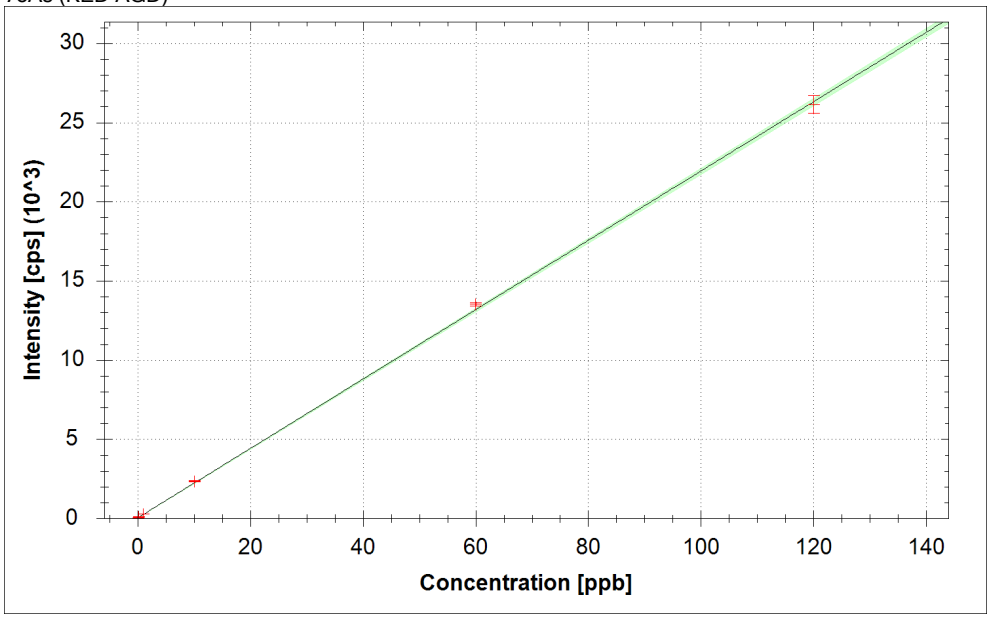
f(x) = 1804.2995*x + 55.5782
R² = 0.9996
BEC = 0.031 ppb
LoD = 0.0359 ppb

66Zn (KED AGD)



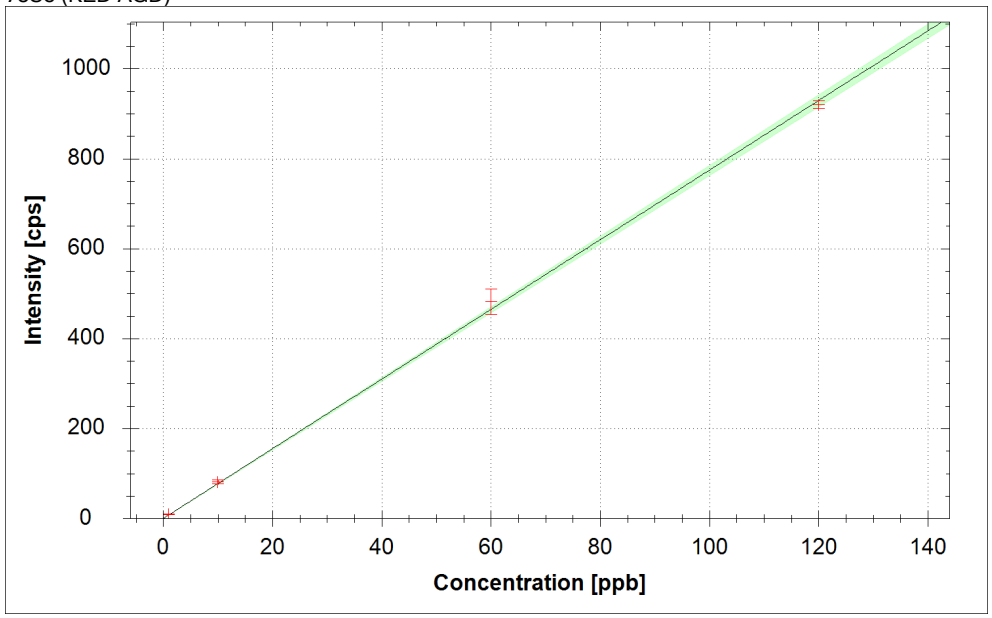
f(x) = 529.2669*x + 61.4851
R² = 0.9999
BEC = 0.116 ppb
LoD = 0.0536 ppb

75As (KED AGD)



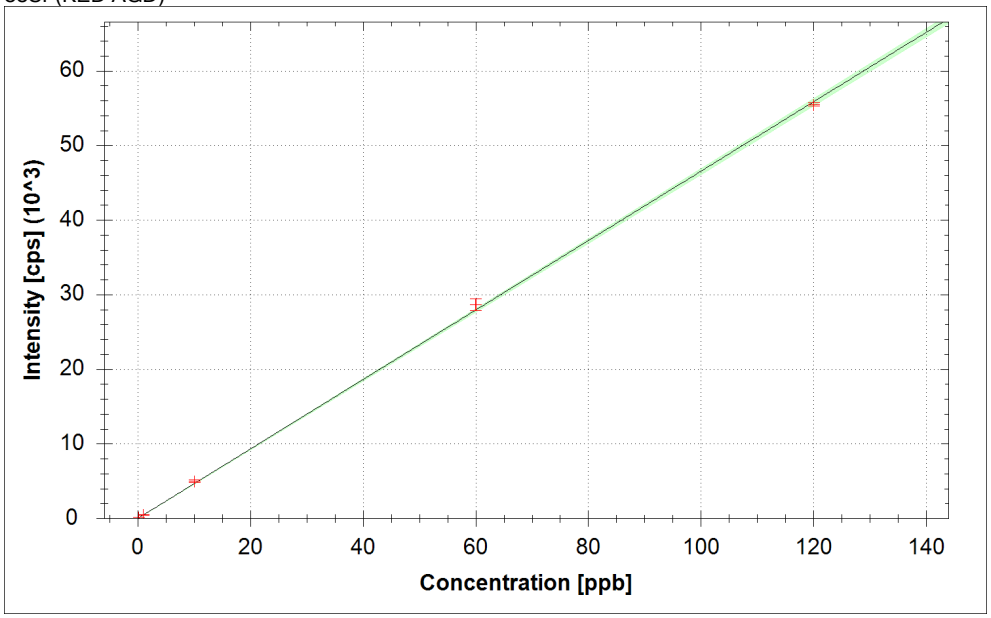
f(x) = 218.8684*x + 45.0107
R² = 0.9997
BEC = 0.206 ppb
LoD = 0.0338 ppb

78Se (KED AGD)



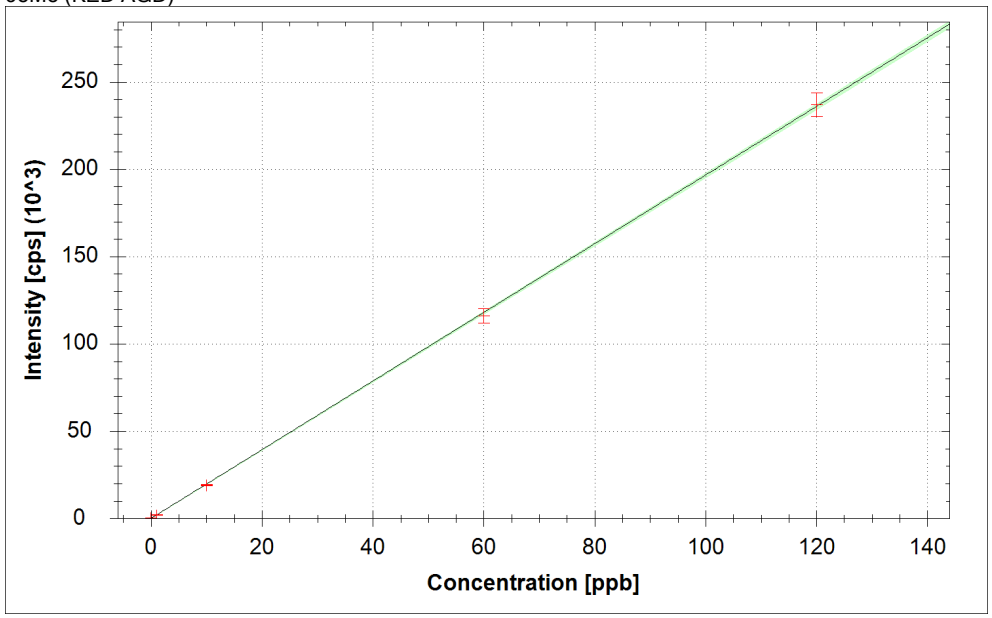
f(x) = 7.7400*x + 0.0206
R² = 0.9994
BEC = 0.003 ppb
LoD = 0.0622 ppb

88Sr (KED AGD)



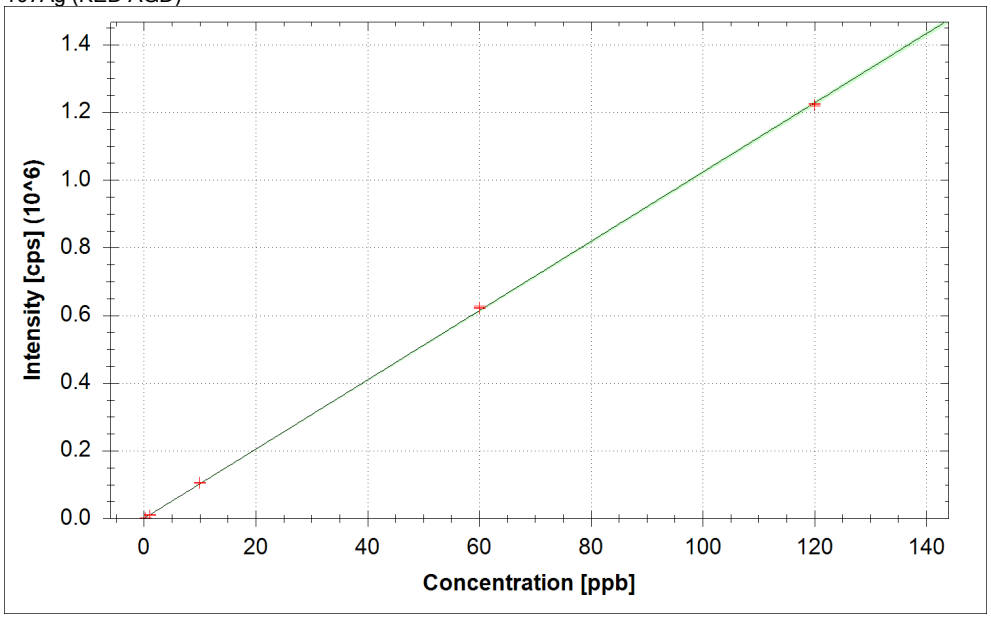
f(x) = 465.1564*x + 14.5593
R² = 0.9997
BEC = 0.031 ppb
LoD = 0.0132 ppb

95Mo (KED AGD)



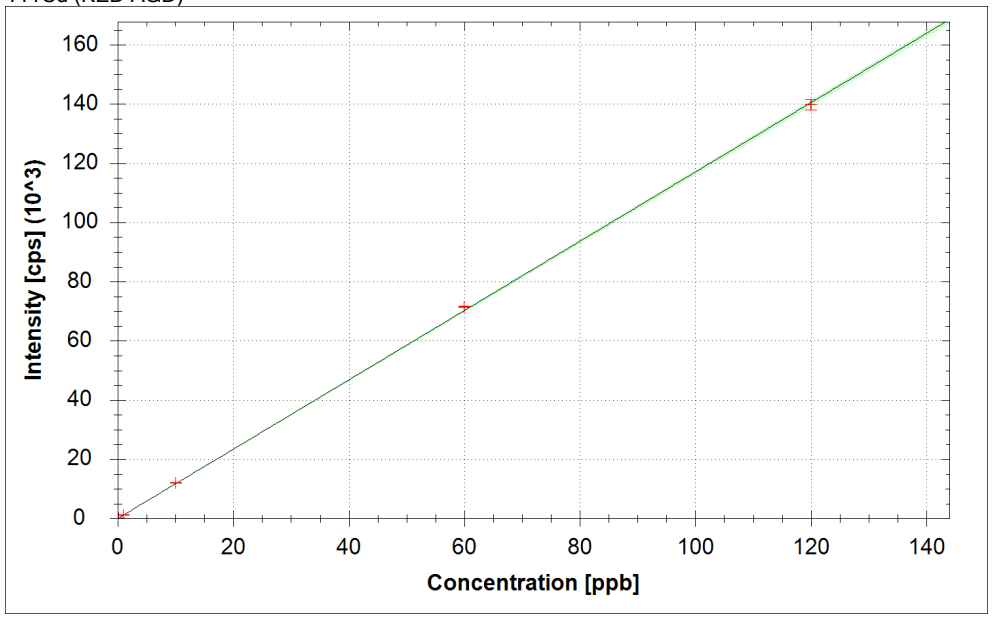
f(x) = 1964.9187*x + 84.3409
R² = 0.9999
BEC = 0.043 ppb
LoD = 0.0731 ppb

107Ag (KED AGD)



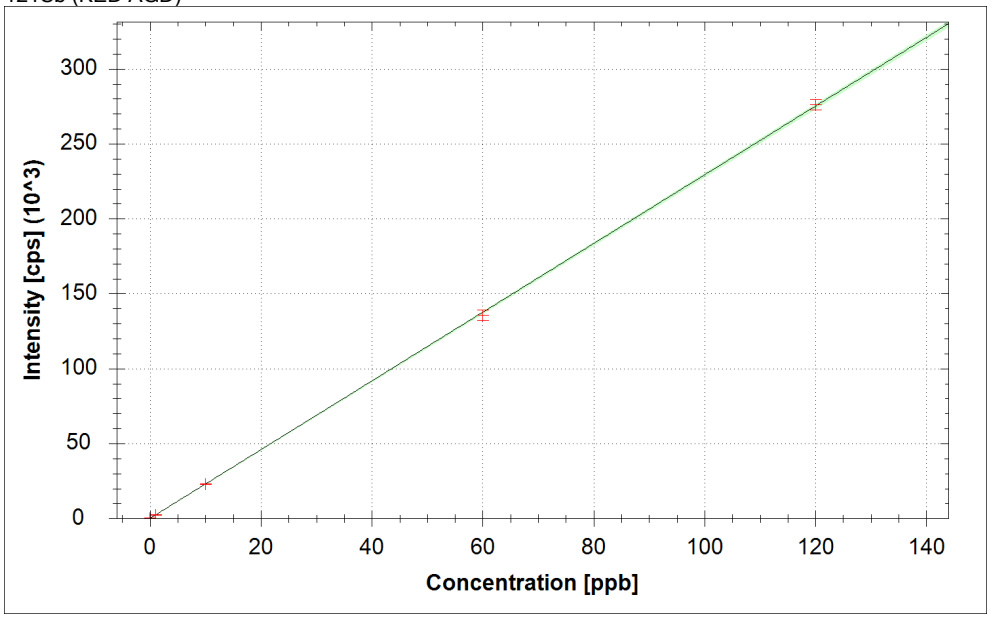
f(x) = 10227.8412*x + 10.0172
R² = 0.9999
BEC = 0.001 ppb
LoD = 0.0026 ppb

111Cd (KED AGD)



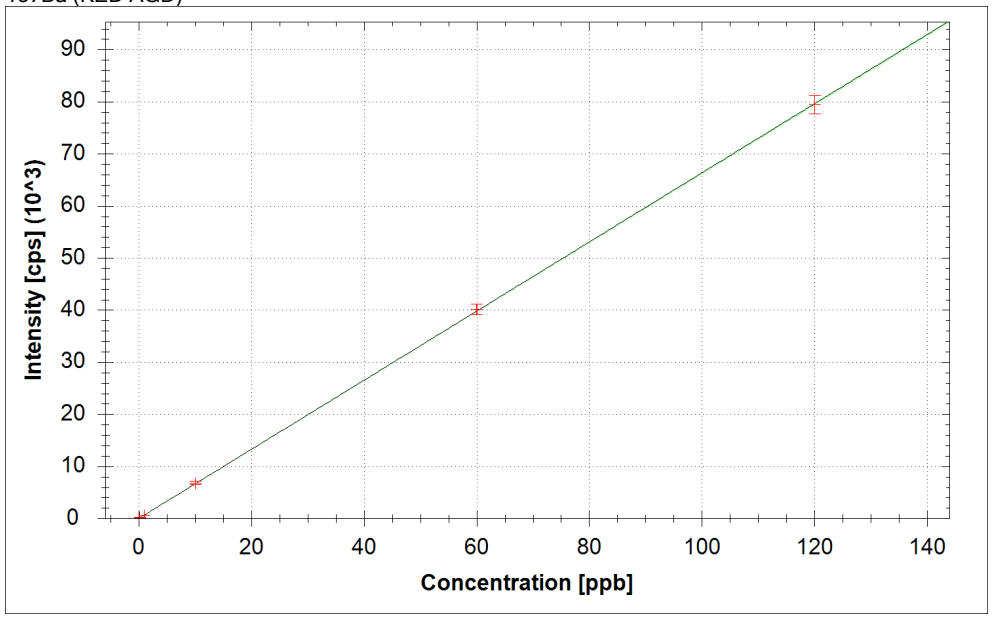
f(x) = 1170.2987*x
R² = 0.9999
BEC = 0.000 ppb
LoD = 0.0000 ppb

121Sb (KED AGD)



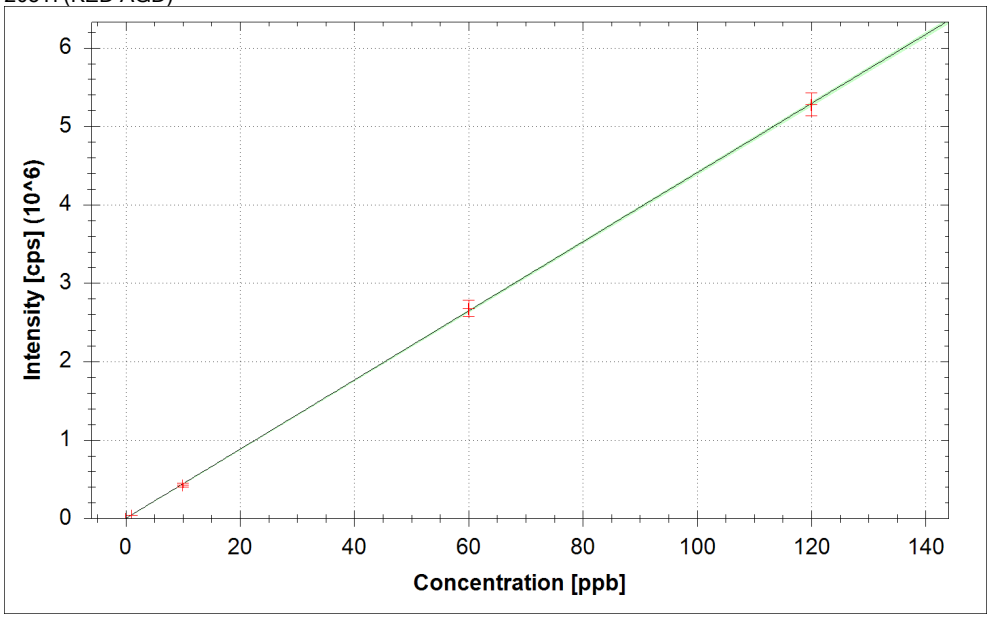
f(x) = 2291.5895*x + 97.7549
R² = 0.9999
BEC = 0.043 ppb
LoD = 0.0144 ppb

137Ba (KED AGD)



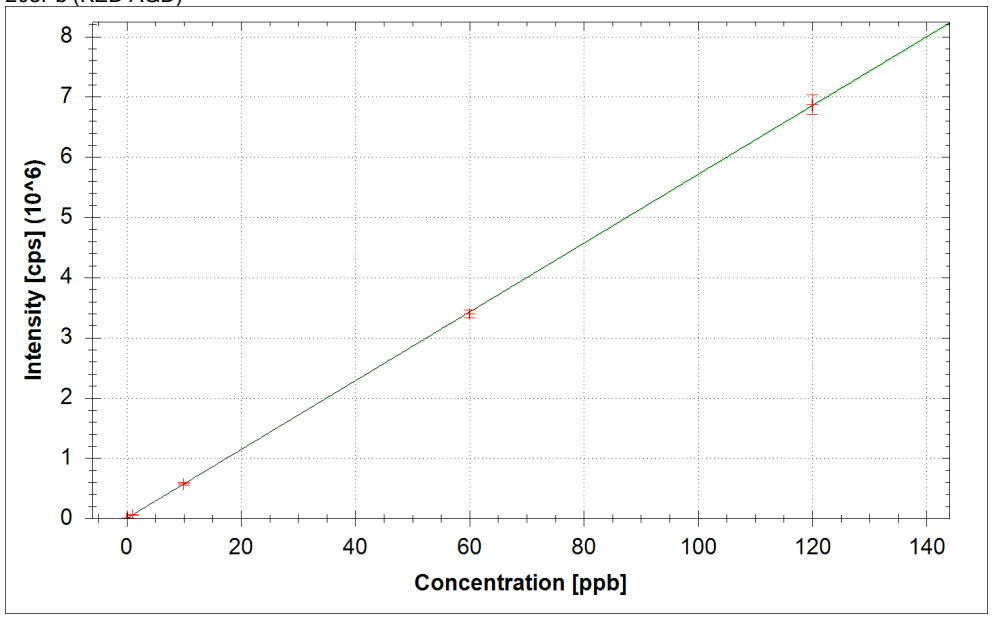
f(x) = 663.1738*x + 5.5505
R² = 1.0000
BEC = 0.008 ppb
LoD = 0.0313 ppb

205Tl (KED AGD)



f(x) = 44066.4006*x + 556.7516
R² = 0.9999
BEC = 0.013 ppb
LoD = 0.0082 ppb

208Pb (KED AGD)



f(x) = 57114.3288*x + 747.7512
R² = 1.0000
BEC = 0.013 ppb
LoD = 0.0022 ppb

Standards:

Analysis Index: 4
Analysis Name: 0.2/20 Cal
Analysis Type: STD
Analysis Started at: 3/5/2024 5:15:40 AM
Total Dilution Factor 1
Rack 0
Vial 2

Category	Concentration average	Concentration RSD	Standard Concentration	Standard Relative Difference
6Li (STD AGD)	97.845 %	1.4 %		0.000 %
6Li (KED AGD)	98.688 %	0.5 %		0.000 %
9Be (STD AGD)	0.211 ppb	7.9 %	0.200 ppb	5.437 %
23Na (KED AGD)	N/A	N/A	N/A	N/A
24Mg (KED AGD)	21.510 ppb	4.6 %	20.000 ppb	7.550 %
27Al (KED AGD)	N/A	N/A	N/A	N/A
39K (KED AGD)	N/A	N/A	N/A	N/A
44Ca (KED AGD)	N/A	N/A	N/A	N/A
45Sc (STD AGD)	98.341 %	1.3 %		0.000 %
51V (KED AGD)	N/A	N/A	N/A	N/A
52Cr (KED AGD)	N/A	N/A	N/A	N/A
55Mn (KED AGD)	0.248 ppb	28.8 %	0.200 ppb	24.229 %
57Fe (KED AGD)	22.680 ppb	6.1 %	20.000 ppb	13.398 %
59Co (KED AGD)	0.219 ppb	12.9 %	0.200 ppb	9.289 %
60Ni (KED AGD)	N/A	N/A	N/A	N/A
65Cu (KED AGD)	N/A	N/A	N/A	N/A
66Zn (KED AGD)	N/A	N/A	N/A	N/A
74Ge (KED AGD)	100.855 %	2.8 %		0.000 %
75As (KED AGD)	0.237 ppb	15.8 %	0.200 ppb	18.337 %
78Se (KED AGD)	N/A	N/A	N/A	N/A
88Sr (KED AGD)	0.275 ppb	8.2 %	0.200 ppb	37.645 %
95Mo (KED AGD)	N/A	N/A	N/A	N/A
103Rh (KED AGD)	98.987 %	1.0 %		0.000 %
107Ag (KED AGD)	0.208 ppb	1.5 %	0.200 ppb	4.192 %
111Cd (KED AGD)	0.214 ppb	4.1 %	0.200 ppb	7.124 %
115In (KED AGD)	101.562 %	1.9 %		0.000 %
121Sb (KED AGD)	N/A	N/A	N/A	N/A
137Ba (KED AGD)	0.237 ppb	12.4 %	0.200 ppb	18.645 %
159Tb (KED AGD)	100.276 %	1.4 %		0.000 %
175Lu (KED AGD)	100.920 %	1.0 %		0.000 %
205Tl (KED AGD)	N/A	N/A	N/A	N/A
208Pb (KED AGD)	0.205 ppb	1.0 %	0.200 ppb	2.541 %

Standards:

Analysis Index: 5
Analysis Name: 1/100 Cal
Analysis Type: STD
Analysis Started at: 3/5/2024 5:20:16 AM
Total Dilution Factor 10000
Rack 0
Vial 3

Category	Concentration average	Concentration RSD	Standard Concentration	Standard Relative Difference
6Li (STD AGD)	96.570 %	0.9 %		0.000 %
6Li (KED AGD)	104.696 %	5.7 %		0.000 %
9Be (STD AGD)	0.978 ppb	3.4 %	1.000 ppb	2.237 %
23Na (KED AGD)	97.362 ppb	2.4 %	100.000 ppb	2.638 %
24Mg (KED AGD)	104.093 ppb	4.5 %	100.000 ppb	4.093 %
27Al (KED AGD)	3.868 ppb	9.1 %	1.000 ppb	286.807 %
39K (KED AGD)	103.803 ppb	10.7 %	100.000 ppb	3.803 %
44Ca (KED AGD)	160.863 ppb	15.1 %	100.000 ppb	60.863 %
45Sc (STD AGD)	99.077 %	0.5 %		0.000 %
51V (KED AGD)	1.045 ppb	9.4 %	1.000 ppb	4.548 %
52Cr (KED AGD)	0.992 ppb	6.5 %	1.000 ppb	0.814 %
55Mn (KED AGD)	1.024 ppb	10.8 %	1.000 ppb	2.386 %
57Fe (KED AGD)	101.800 ppb	3.5 %	100.000 ppb	1.800 %
59Co (KED AGD)	1.070 ppb	3.1 %	1.000 ppb	7.039 %
60Ni (KED AGD)	0.994 ppb	6.3 %	1.000 ppb	0.640 %
65Cu (KED AGD)	1.088 ppb	1.6 %	1.000 ppb	8.827 %
66Zn (KED AGD)	1.163 ppb	3.6 %	1.000 ppb	16.322 %
74Ge (KED AGD)	99.035 %	6.2 %		0.000 %
75As (KED AGD)	1.046 ppb	3.7 %	1.000 ppb	4.647 %
78Se (KED AGD)	1.197 ppb	8.0 %	1.000 ppb	19.676 %
88Sr (KED AGD)	1.002 ppb	6.3 %	1.000 ppb	0.159 %
95Mo (KED AGD)	0.899 ppb	11.3 %	1.000 ppb	10.079 %
103Rh (KED AGD)	99.429 %	3.5 %		0.000 %
107Ag (KED AGD)	0.962 ppb	4.1 %	1.000 ppb	3.820 %
111Cd (KED AGD)	0.976 ppb	3.0 %	1.000 ppb	2.433 %
115In (KED AGD)	100.682 %	7.3 %		0.000 %
121Sb (KED AGD)	0.968 ppb	4.3 %	1.000 ppb	3.245 %
137Ba (KED AGD)	0.901 ppb	8.1 %	1.000 ppb	9.858 %
159Tb (KED AGD)	100.987 %	3.6 %		0.000 %
175Lu (KED AGD)	101.476 %	6.4 %		0.000 %
205Tl (KED AGD)	0.892 ppb	6.0 %	1.000 ppb	10.848 %
208Pb (KED AGD)	0.986 ppb	3.8 %	1.000 ppb	1.358 %

Standards:

Analysis Index: 6
Analysis Name: 10/1000 Cal
Analysis Type: STD
Analysis Started at: 3/5/2024 5:24:53 AM
Total Dilution Factor 1000
Rack 0
Vial 4

Category	Concentration average	Concentration RSD	Standard Concentration	Standard Relative Difference
6Li (STD AGD)	94.962 %	2.5 %		0.000 %
6Li (KED AGD)	99.862 %	2.8 %		0.000 %
9Be (STD AGD)	10.253 ppb	0.9 %	10.000 ppb	2.534 %
23Na (KED AGD)	1,034.319 ppb	3.9 %	1,000.000 ppb	3.432 %
24Mg (KED AGD)	1,066.826 ppb	3.1 %	1,000.000 ppb	6.683 %
27Al (KED AGD)	10.619 ppb	12.3 %	10.000 ppb	6.193 %
39K (KED AGD)	1,088.967 ppb	9.3 %	1,000.000 ppb	8.897 %
44Ca (KED AGD)	1,093.520 ppb	3.2 %	1,000.000 ppb	9.352 %
45Sc (STD AGD)	99.344 %	2.3 %		0.000 %
51V (KED AGD)	10.513 ppb	2.6 %	10.000 ppb	5.129 %
52Cr (KED AGD)	10.756 ppb	2.9 %	10.000 ppb	7.564 %
55Mn (KED AGD)	10.461 ppb	8.4 %	10.000 ppb	4.607 %
57Fe (KED AGD)	1,057.622 ppb	1.7 %	1,000.000 ppb	5.762 %
59Co (KED AGD)	10.800 ppb	1.7 %	10.000 ppb	8.003 %
60Ni (KED AGD)	11.058 ppb	1.6 %	10.000 ppb	10.583 %
65Cu (KED AGD)	10.695 ppb	5.2 %	10.000 ppb	6.951 %
66Zn (KED AGD)	10.453 ppb	0.8 %	10.000 ppb	4.527 %
74Ge (KED AGD)	97.103 %	6.7 %		0.000 %
75As (KED AGD)	10.537 ppb	1.4 %	10.000 ppb	5.375 %
78Se (KED AGD)	10.437 ppb	5.5 %	10.000 ppb	4.371 %
88Sr (KED AGD)	10.679 ppb	2.9 %	10.000 ppb	6.791 %
95Mo (KED AGD)	9.639 ppb	2.7 %	10.000 ppb	3.614 %
103Rh (KED AGD)	98.443 %	3.7 %		0.000 %
107Ag (KED AGD)	10.333 ppb	0.8 %	10.000 ppb	3.334 %
111Cd (KED AGD)	10.284 ppb	0.7 %	10.000 ppb	2.836 %
115In (KED AGD)	99.521 %	7.5 %		0.000 %
121Sb (KED AGD)	9.957 ppb	1.5 %	10.000 ppb	0.433 %
137Ba (KED AGD)	10.255 ppb	4.1 %	10.000 ppb	2.553 %
159Tb (KED AGD)	100.505 %	4.8 %		0.000 %
175Lu (KED AGD)	101.430 %	7.2 %		0.000 %
205Tl (KED AGD)	9.532 ppb	5.8 %	10.000 ppb	4.684 %
208Pb (KED AGD)	10.051 ppb	3.9 %	10.000 ppb	0.511 %

Standards:

Analysis Index: 7
Analysis Name: 60/6000 Cal
Analysis Type: STD
Analysis Started at: 3/5/2024 5:29:31 AM
Total Dilution Factor 166.6666666
Rack 0
Vial 5

Category	Concentration average	Concentration RSD	Standard Concentration	Standard Relative Difference
6Li (STD AGD)	87.496 %	1.3 %		0.000 %
6Li (KED AGD)	93.025 %	5.1 %		0.000 %
9Be (STD AGD)	63.204 ppb	2.1 %	60.000 ppb	5.341 %
23Na (KED AGD)	6,097.063 ppb	8.1 %	6,000.000 ppb	1.618 %
24Mg (KED AGD)	6,222.052 ppb	8.1 %	6,000.000 ppb	3.701 %
27Al (KED AGD)	64.165 ppb	4.5 %	60.000 ppb	6.942 %
39K (KED AGD)	6,287.725 ppb	9.2 %	6,000.000 ppb	4.795 %
44Ca (KED AGD)	6,145.009 ppb	3.9 %	6,000.000 ppb	2.417 %
45Sc (STD AGD)	97.660 %	2.0 %		0.000 %
51V (KED AGD)	60.560 ppb	2.7 %	60.000 ppb	0.934 %
52Cr (KED AGD)	61.159 ppb	0.5 %	60.000 ppb	1.931 %
55Mn (KED AGD)	62.640 ppb	2.8 %	60.000 ppb	4.400 %
57Fe (KED AGD)	5,990.357 ppb	0.9 %	6,000.000 ppb	0.161 %
59Co (KED AGD)	61.598 ppb	0.3 %	60.000 ppb	2.663 %
60Ni (KED AGD)	62.939 ppb	1.5 %	60.000 ppb	4.899 %
65Cu (KED AGD)	61.698 ppb	2.1 %	60.000 ppb	2.829 %
66Zn (KED AGD)	59.922 ppb	1.1 %	60.000 ppb	0.130 %
74Ge (KED AGD)	93.436 %	5.9 %		0.000 %
75As (KED AGD)	61.553 ppb	0.7 %	60.000 ppb	2.588 %
78Se (KED AGD)	62.239 ppb	5.9 %	60.000 ppb	3.731 %
88Sr (KED AGD)	61.464 ppb	2.7 %	60.000 ppb	2.440 %
95Mo (KED AGD)	58.981 ppb	3.6 %	60.000 ppb	1.698 %
103Rh (KED AGD)	92.378 %	3.2 %		0.000 %
107Ag (KED AGD)	60.884 ppb	0.6 %	60.000 ppb	1.474 %
111Cd (KED AGD)	61.063 ppb	0.4 %	60.000 ppb	1.772 %
115In (KED AGD)	92.995 %	4.5 %		0.000 %
121Sb (KED AGD)	59.108 ppb	2.6 %	60.000 ppb	1.487 %
137Ba (KED AGD)	60.446 ppb	2.5 %	60.000 ppb	0.744 %
159Tb (KED AGD)	97.244 %	3.0 %		0.000 %
175Lu (KED AGD)	98.407 %	4.2 %		0.000 %
205Tl (KED AGD)	60.692 ppb	4.0 %	60.000 ppb	1.154 %
208Pb (KED AGD)	59.427 ppb	2.0 %	60.000 ppb	0.954 %

Standards:

Analysis Index: 8
Analysis Name: 120/12000 Cal
Analysis Type: STD
Analysis Started at: 3/5/2024 5:34:10 AM
Total Dilution Factor 83.33333333
Rack 0
Vial 6

Category	Concentration average	Concentration RSD	Standard Concentration	Standard Relative Difference
6Li (STD AGD)	85.836 %	1.8 %		0.000 %
6Li (KED AGD)	88.950 %	8.1 %		0.000 %
9Be (STD AGD)	118.377 ppb	0.6 %	120.000 ppb	1.353 %
23Na (KED AGD)	11,948.630 ppb	7.1 %	12,000.000 ppb	0.428 %
24Mg (KED AGD)	11,883.369 ppb	4.2 %	12,000.000 ppb	0.972 %
27Al (KED AGD)	117.842 ppb	2.8 %	120.000 ppb	1.798 %
39K (KED AGD)	11,848.692 ppb	4.1 %	12,000.000 ppb	1.261 %
44Ca (KED AGD)	11,919.195 ppb	2.8 %	12,000.000 ppb	0.673 %
45Sc (STD AGD)	103.148 %	1.2 %		0.000 %
51V (KED AGD)	119.677 ppb	1.3 %	120.000 ppb	0.269 %
52Cr (KED AGD)	119.358 ppb	2.2 %	120.000 ppb	0.535 %
55Mn (KED AGD)	118.641 ppb	0.5 %	120.000 ppb	1.132 %
57Fe (KED AGD)	11,506.782 ppb	1.6 %	12,000.000 ppb	4.110 %
59Co (KED AGD)	119.134 ppb	2.1 %	120.000 ppb	0.722 %
60Ni (KED AGD)	118.442 ppb	1.9 %	120.000 ppb	1.298 %
65Cu (KED AGD)	119.093 ppb	2.0 %	120.000 ppb	0.756 %
66Zn (KED AGD)	116.735 ppb	2.5 %	120.000 ppb	2.721 %
74Ge (KED AGD)	89.841 %	6.7 %		0.000 %
75As (KED AGD)	119.178 ppb	2.2 %	120.000 ppb	0.685 %
78Se (KED AGD)	118.843 ppb	1.0 %	120.000 ppb	0.965 %
88Sr (KED AGD)	119.211 ppb	0.4 %	120.000 ppb	0.657 %
95Mo (KED AGD)	120.540 ppb	2.8 %	120.000 ppb	0.450 %
103Rh (KED AGD)	88.101 %	2.6 %		0.000 %
107Ag (KED AGD)	119.530 ppb	0.3 %	120.000 ppb	0.391 %
111Cd (KED AGD)	119.445 ppb	1.2 %	120.000 ppb	0.463 %
115In (KED AGD)	88.654 %	4.7 %		0.000 %
121Sb (KED AGD)	120.450 ppb	1.3 %	120.000 ppb	0.375 %
137Ba (KED AGD)	119.756 ppb	2.2 %	120.000 ppb	0.203 %
159Tb (KED AGD)	93.257 %	2.2 %		0.000 %
175Lu (KED AGD)	95.116 %	3.7 %		0.000 %
205Tl (KED AGD)	119.694 ppb	2.8 %	120.000 ppb	0.255 %
208Pb (KED AGD)	120.282 ppb	2.4 %	120.000 ppb	0.235 %

Alpha ICPMSQ Data with SRD

3/5/2024 4:47:09 PM

Analysis index:	1	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	Rinse	Rack	0		
Analysis started at:	3/5/2024 5:01:45 AM	Vial	1		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	104.240 %	105.594 %	0.011 ppb	20.037 ppb	2.794 ppb	1.509 ppb	18.677 ppb	10.566 ppb	96.861 %
Concentration per Run 1	105.763 %	103.384 %	0.015 ppb	21.986 ppb	2.977 ppb	1.612 ppb	19.517 ppb	16.277 ppb	97.752 %
Concentration per Run 2	104.843 %	105.456 %	0.015 ppb	19.322 ppb	1.747 ppb	0.990 ppb	20.541 ppb	4.131 ppb	97.787 %
Concentration per Run 3	102.114 %	107.942 %	0.004 ppb	18.803 ppb	3.659 ppb	1.927 ppb	15.975 ppb	11.289 ppb	95.044 %
Concentration RSD	1.8 %	2.2 %	57.5 %	8.5 %	34.7 %	31.6 %	12.8 %	57.8 %	1.6 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.008 ppb	0.053 ppb	0.151 ppb	4.938 ppb	0.009 ppb	0.168 ppb	0.097 ppb	2.666 ppb	102.640 %
Concentration per Run 1	0.024 ppb	0.041 ppb	0.166 ppb	4.977 ppb	0.006 ppb	0.141 ppb	0.112 ppb	2.783 ppb	103.828 %
Concentration per Run 2	0.004 ppb	0.056 ppb	0.083 ppb	4.825 ppb	0.012 ppb	0.170 ppb	0.109 ppb	2.594 ppb	102.584 %
Concentration per Run 3	-0.003 ppb	0.063 ppb	0.203 ppb	5.011 ppb	0.009 ppb	0.194 ppb	0.070 ppb	2.623 ppb	101.508 %
Concentration RSD	171.0 %	20.8 %	40.9 %	2.0 %	35.8 %	15.7 %	23.9 %	3.8 %	1.1 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.073 ppb	0.073 ppb	0.017 ppb	0.026 ppb	101.801 %	0.005 ppb	0.000 ppb	102.167 %	0.033 ppb
Concentration per Run 1	0.081 ppb	0.070 ppb	0.017 ppb	0.036 ppb	102.428 %	0.003 ppb	0.000 ppb	102.900 %	0.040 ppb
Concentration per Run 2	0.062 ppb	0.029 ppb	0.015 ppb	0.014 ppb	101.258 %	0.007 ppb	0.000 ppb	102.329 %	0.029 ppb
Concentration per Run 3	0.076 ppb	0.119 ppb	0.020 ppb	0.027 ppb	101.718 %	0.005 ppb	0.000 ppb	101.271 %	0.030 ppb
Concentration RSD	13.4 %	61.9 %	12.7 %	43.8 %	0.6 %	44.3 %	N/A	0.8 %	18.8 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	0.059 ppb	102.286 %	103.636 %	0.007 ppb	0.042 ppb
Concentration per Run 1	0.045 ppb	103.346 %	101.929 %	0.003 ppb	0.042 ppb
Concentration per Run 2	0.046 ppb	101.938 %	103.964 %	0.009 ppb	0.041 ppb
Concentration per Run 3	0.086 ppb	101.575 %	105.016 %	0.008 ppb	0.041 ppb
Concentration RSD	39.5 %	0.9 %	1.5 %	48.2 %	1.8 %

Alpha ICPMSQ Data with SRD

3/5/2024 4:47:09 PM

Analysis index:	2	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	CAL LOT #M24-1045	Rack	0		
Analysis started at:	3/5/2024 5:06:21 AM	Vial	1		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	102.001 %	105.801 %	0.012 ppb	18.149 ppb	3.941 ppb	1.973 ppb	14.776 ppb	12.795 ppb	100.748 %
Concentration per Run 1	103.729 %	106.077 %	0.010 ppb	19.425 ppb	3.753 ppb	1.682 ppb	14.582 ppb	19.124 ppb	102.118 %
Concentration per Run 2	101.369 %	106.285 %	0.012 ppb	18.247 ppb	2.924 ppb	1.883 ppb	16.005 ppb	9.002 ppb	100.254 %
Concentration per Run 3	100.906 %	105.042 %	0.014 ppb	16.776 ppb	5.145 ppb	2.355 ppb	13.741 ppb	10.257 ppb	99.871 %
Concentration RSD	1.5 %	0.6 %	17.9 %	7.3 %	28.5 %	17.5 %	7.7 %	43.1 %	1.2 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.009 ppb	0.042 ppb	0.146 ppb	4.076 ppb	0.012 ppb	0.193 ppb	0.123 ppb	2.678 ppb	100.426 %
Concentration per Run 1	0.011 ppb	0.052 ppb	0.172 ppb	3.547 ppb	0.008 ppb	0.230 ppb	0.140 ppb	2.773 ppb	98.510 %
Concentration per Run 2	-0.010 ppb	0.033 ppb	0.144 ppb	4.867 ppb	0.014 ppb	0.212 ppb	0.107 ppb	2.613 ppb	101.319 %
Concentration per Run 3	0.024 ppb	0.042 ppb	0.120 ppb	3.816 ppb	0.013 ppb	0.138 ppb	0.121 ppb	2.649 ppb	101.449 %
Concentration RSD	198.3 %	22.4 %	17.9 %	17.1 %	28.6 %	25.0 %	13.5 %	3.1 %	1.7 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.002 ppb	0.078 ppb	0.020 ppb	0.014 ppb	99.814 %	0.004 ppb	0.001 ppb	102.036 %	0.021 ppb
Concentration per Run 1	0.026 ppb	0.110 ppb	0.019 ppb	-0.002 ppb	100.266 %	0.005 ppb	0.002 ppb	101.893 %	0.017 ppb
Concentration per Run 2	0.005 ppb	0.067 ppb	0.019 ppb	0.015 ppb	100.037 %	0.004 ppb	0.000 ppb	101.264 %	0.026 ppb
Concentration per Run 3	-0.025 ppb	0.057 ppb	0.023 ppb	0.028 ppb	99.138 %	0.003 ppb	0.000 ppb	102.952 %	0.020 ppb
Concentration RSD	1,378.7 %	36.1 %	11.0 %	112.4 %	0.6 %	29.9 %	173.2 %	0.8 %	22.1 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	0.060 ppb	100.499 %	101.486 %	0.004 ppb	0.039 ppb
Concentration per Run 1	0.036 ppb	101.268 %	101.378 %	0.000 ppb	0.035 ppb
Concentration per Run 2	0.071 ppb	100.533 %	102.661 %	0.007 ppb	0.040 ppb
Concentration per Run 3	0.071 ppb	99.696 %	100.417 %	0.004 ppb	0.042 ppb
Concentration RSD	34.0 %	0.8 %	1.1 %	85.7 %	9.4 %

Alpha ICPMSQ Data with SRD

3/5/2024 4:47:09 PM

Analysis index:	3	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	Blank EJF ICPMSQ	Rack	4		
Analysis started at:	3/5/2024 5:10:58 AM	Vial	49		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	100.000 %	100.000 %	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	100.000 %
Concentration per Run	100.000 %	100.000 %	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	100.000 %
Concentration RSD	0.0 %	0.0 %	0.3 %	0.1 %	0.7 %	0.1 %	0.1 %	0.5 %	0.0 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	100.000 %
Concentration per Run	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	100.000 %
Concentration RSD	0.5 %	0.3 %	0.3 %	0.5 %	0.4 %	0.2 %	0.4 %	0.2 %	0.0 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	100.000 %	0.000 ppb	0.000 ppb	100.000 %	0.000 ppb
Concentration per Run	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	100.000 %	0.000 ppb	0.000 ppb	100.000 %	0.000 ppb
Concentration RSD	0.1 %	7.8 %	0.1 %	0.6 %	0.0 %	0.9 %		0.0 %	0.1 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	0.000 ppb	100.000 %	100.000 %	0.000 ppb	0.000 ppb
Concentration per Run	0.000 ppb	100.000 %	100.000 %	0.000 ppb	0.000 ppb
Concentration RSD	1.2 %	0.0 %	0.0 %	0.2 %	0.1 %

Alpha ICPMSQ Data with SRD

3/5/2024 4:47:09 PM

Analysis index:	4	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	0.2/20 Cal	Rack	0		
Analysis started at:	3/5/2024 5:15:40 AM	Vial	2		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	97.845 %	98.688 %	0.211 ppb	N/A	21.510 ppb	N/A	N/A	N/A	98.341 %
Concentration per Run 1	99.396 %	98.412 %	0.196 ppb	N/A	20.786 ppb	N/A	N/A	N/A	99.581 %
Concentration per Run 2	97.439 %	99.240 %	0.209 ppb	N/A	22.648 ppb	N/A	N/A	N/A	98.481 %
Concentration per Run 3	96.699 %	98.412 %	0.228 ppb	N/A	21.096 ppb	N/A	N/A	N/A	96.960 %
Concentration RSD	1.4 %	0.5 %	7.9 %	N/A	4.6 %	N/A	N/A	N/A	1.3 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	N/A	N/A	0.248 ppb	22.680 ppb	0.219 ppb	N/A	N/A	N/A	100.855 %
Concentration per Run 1	N/A	N/A	0.194 ppb	21.429 ppb	0.187 ppb	N/A	N/A	N/A	103.267 %
Concentration per Run 2	N/A	N/A	0.329 ppb	24.170 ppb	0.241 ppb	N/A	N/A	N/A	97.775 %
Concentration per Run 3	N/A	N/A	0.222 ppb	22.440 ppb	0.228 ppb	N/A	N/A	N/A	101.521 %
Concentration RSD	N/A	N/A	28.8 %	6.1 %	12.9 %	N/A	N/A	N/A	2.8 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.237 ppb	N/A	0.275 ppb	N/A	98.987 %	0.208 ppb	0.214 ppb	101.562 %	N/A
Concentration per Run 1	0.245 ppb	N/A	0.251 ppb	N/A	97.792 %	0.211 ppb	0.224 ppb	101.398 %	N/A
Concentration per Run 2	0.269 ppb	N/A	0.279 ppb	N/A	99.624 %	0.209 ppb	0.207 ppb	103.562 %	N/A
Concentration per Run 3	0.196 ppb	N/A	0.296 ppb	N/A	99.545 %	0.205 ppb	0.211 ppb	99.725 %	N/A
Concentration RSD	15.8 %	N/A	8.2 %	N/A	1.0 %	1.5 %	4.1 %	1.9 %	N/A

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	0.237 ppb	100.276 %	100.920 %	N/A	0.205 ppb
Concentration per Run 1	0.208 ppb	98.636 %	99.879 %	N/A	0.207 ppb
Concentration per Run 2	0.237 ppb	100.875 %	100.991 %	N/A	0.205 ppb
Concentration per Run 3	0.267 ppb	101.316 %	101.889 %	N/A	0.203 ppb
Concentration RSD	12.4 %	1.4 %	1.0 %	N/A	1.0 %

Alpha ICPMSQ Data with SRD

3/5/2024 4:47:09 PM

Analysis index:	5	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	1/100 Cal	Rack	0		
Analysis started at:	3/5/2024 5:20:16 AM	Vial	3		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	96.570 %	104.696 %	0.978 ppb	97.362 ppb	104.093 ppb	3.868 ppb	103.803 ppb	160.863 ppb	99.077 %
Concentration per Run 1	96.969 %	109.807 %	0.980 ppb	94.906 ppb	104.127 ppb	3.960 ppb	111.937 ppb	155.738 ppb	98.656 %
Concentration per Run 2	97.129 %	106.077 %	1.010 ppb	97.556 ppb	99.407 ppb	4.164 ppb	108.307 ppb	187.229 ppb	99.594 %
Concentration per Run 3	95.612 %	98.204 %	0.944 ppb	99.623 ppb	108.744 ppb	3.480 ppb	91.166 ppb	139.622 ppb	98.982 %
Concentration RSD	0.9 %	5.7 %	3.4 %	2.4 %	4.5 %	9.1 %	10.7 %	15.1 %	0.5 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	1.045 ppb	0.992 ppb	1.024 ppb	101.800 ppb	1.070 ppb	0.994 ppb	1.088 ppb	1.163 ppb	99.035 %
Concentration per Run 1	0.964 ppb	1.036 ppb	0.930 ppb	105.325 ppb	1.033 ppb	0.923 ppb	1.108 ppb	1.118 ppb	105.189 %
Concentration per Run 2	1.017 ppb	0.918 ppb	0.996 ppb	98.286 ppb	1.097 ppb	1.014 ppb	1.075 ppb	1.172 ppb	98.935 %
Concentration per Run 3	1.155 ppb	1.021 ppb	1.146 ppb	101.789 ppb	1.082 ppb	1.044 ppb	1.082 ppb	1.200 ppb	92.980 %
Concentration RSD	9.4 %	6.5 %	10.8 %	3.5 %	3.1 %	6.3 %	1.6 %	3.6 %	6.2 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	1.046 ppb	1.197 ppb	1.002 ppb	0.899 ppb	99.429 %	0.962 ppb	0.976 ppb	100.682 %	0.968 ppb
Concentration per Run 1	1.062 ppb	1.224 ppb	1.071 ppb	0.782 ppb	103.034 %	0.924 ppb	1.009 ppb	107.685 %	0.958 ppb
Concentration per Run 2	1.003 ppb	1.276 ppb	0.986 ppb	0.950 ppb	99.158 %	0.960 ppb	0.953 ppb	101.274 %	0.932 ppb
Concentration per Run 3	1.075 ppb	1.090 ppb	0.948 ppb	0.965 ppb	96.094 %	1.002 ppb	0.965 ppb	93.087 %	1.013 ppb
Concentration RSD	3.7 %	8.0 %	6.3 %	11.3 %	3.5 %	4.1 %	3.0 %	7.3 %	4.3 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	0.901 ppb	100.987 %	101.476 %	0.892 ppb	0.986 ppb
Concentration per Run 1	0.984 ppb	104.132 %	107.084 %	0.852 ppb	0.965 ppb
Concentration per Run 2	0.878 ppb	101.797 %	102.961 %	0.870 ppb	0.964 ppb
Concentration per Run 3	0.843 ppb	97.033 %	94.383 %	0.952 ppb	1.030 ppb
Concentration RSD	8.1 %	3.6 %	6.4 %	6.0 %	3.8 %

Alpha ICPMSQ Data with SRD

3/5/2024 4:47:09 PM

Analysis index:	6	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	10/1000 Cal	Rack	0		
Analysis started at:	3/5/2024 5:24:53 AM	Vial	4		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	94.962 %	99.862 %	10.253 ppb	1,034.319 ppb	1,066.826 ppb	10.619 ppb	1,088.967 ppb	1,093.520 ppb	99.344 %
Concentration per Run 1	95.686 %	102.141 %	10.274 ppb	1,058.845 ppb	1,099.652 ppb	12.064 ppb	1,177.728 ppb	1,132.674 ppb	99.721 %
Concentration per Run 2	96.862 %	96.754 %	10.158 ppb	1,056.721 ppb	1,066.697 ppb	10.276 ppb	1,110.562 ppb	1,083.679 ppb	101.396 %
Concentration per Run 3	92.338 %	100.691 %	10.329 ppb	987.391 ppb	1,034.129 ppb	9.518 ppb	978.612 ppb	1,064.207 ppb	96.916 %
Concentration RSD	2.5 %	2.8 %	0.9 %	3.9 %	3.1 %	12.3 %	9.3 %	3.2 %	2.3 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	10.513 ppb	10.756 ppb	10.461 ppb	1,057.622 ppb	10.800 ppb	11.058 ppb	10.695 ppb	10.453 ppb	97.103 %
Concentration per Run 1	10.781 ppb	10.726 ppb	10.451 ppb	1,040.436 ppb	10.639 ppb	11.118 ppb	10.252 ppb	10.540 ppb	103.954 %
Concentration per Run 2	10.245 ppb	11.087 ppb	11.348 ppb	1,076.544 ppb	10.997 ppb	11.203 ppb	10.517 ppb	10.364 ppb	96.394 %
Concentration per Run 3	10.513 ppb	10.456 ppb	9.583 ppb	1,055.885 ppb	10.764 ppb	10.853 ppb	11.317 ppb	10.454 ppb	90.961 %
Concentration RSD	2.6 %	2.9 %	8.4 %	1.7 %	1.7 %	1.6 %	5.2 %	0.8 %	6.7 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	10.537 ppb	10.437 ppb	10.679 ppb	9.639 ppb	98.443 %	10.333 ppb	10.284 ppb	99.521 %	9.957 ppb
Concentration per Run 1	10.551 ppb	10.655 ppb	10.994 ppb	9.508 ppb	102.330 %	10.272 ppb	10.220 ppb	107.540 %	10.058 ppb
Concentration per Run 2	10.383 ppb	10.871 ppb	10.670 ppb	9.937 ppb	97.983 %	10.425 ppb	10.267 ppb	98.324 %	10.021 ppb
Concentration per Run 3	10.678 ppb	9.785 ppb	10.373 ppb	9.471 ppb	95.015 %	10.303 ppb	10.364 ppb	92.700 %	9.791 ppb
Concentration RSD	1.4 %	5.5 %	2.9 %	2.7 %	3.7 %	0.8 %	0.7 %	7.5 %	1.5 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	10.255 ppb	100.505 %	101.430 %	9.532 ppb	10.051 ppb
Concentration per Run 1	10.721 ppb	105.211 %	109.259 %	8.896 ppb	9.605 ppb
Concentration per Run 2	10.133 ppb	100.780 %	100.239 %	9.772 ppb	10.234 ppb
Concentration per Run 3	9.912 ppb	95.523 %	94.794 %	9.927 ppb	10.315 ppb
Concentration RSD	4.1 %	4.8 %	7.2 %	5.8 %	3.9 %

Alpha ICPMSQ Data with SRD

3/5/2024 4:47:09 PM

Analysis index:	7	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	60/6000 Cal	Rack	0		
Analysis started at:	3/5/2024 5:29:31 AM	Vial	5		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	87.496 %	93.025 %	63.204 ppb	6,097.063 ppb	6,222.052 ppb	64.165 ppb	6,287.725 ppb	6,145.009 ppb	97.660 %
Concentration per Run 1	86.445 %	90.953 %	64.625 ppb	6,670.360 ppb	6,796.297 ppb	67.502 ppb	6,954.891 ppb	6,393.583 ppb	99.576 %
Concentration per Run 2	88.657 %	98.412 %	62.932 ppb	5,824.643 ppb	6,004.578 ppb	62.599 ppb	5,921.204 ppb	6,131.432 ppb	97.798 %
Concentration per Run 3	87.387 %	89.710 %	62.057 ppb	5,796.187 ppb	5,865.281 ppb	62.395 ppb	5,987.079 ppb	5,910.012 ppb	95.606 %
Concentration RSD	1.3 %	5.1 %	2.1 %	8.1 %	8.1 %	4.5 %	9.2 %	3.9 %	2.0 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	60.560 ppb	61.159 ppb	62.640 ppb	5,990.357 ppb	61.598 ppb	62.939 ppb	61.698 ppb	59.922 ppb	93.436 %
Concentration per Run 1	61.860 ppb	61.519 ppb	63.892 ppb	6,051.433 ppb	61.747 ppb	62.592 ppb	60.400 ppb	59.384 ppb	99.327 %
Concentration per Run 2	58.719 ppb	61.057 ppb	60.601 ppb	5,947.417 ppb	61.378 ppb	62.216 ppb	61.668 ppb	60.634 ppb	92.485 %
Concentration per Run 3	61.102 ppb	60.900 ppb	63.427 ppb	5,972.222 ppb	61.669 ppb	64.010 ppb	63.025 ppb	59.747 ppb	88.495 %
Concentration RSD	2.7 %	0.5 %	2.8 %	0.9 %	0.3 %	1.5 %	2.1 %	1.1 %	5.9 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	61.553 ppb	62.239 ppb	61.464 ppb	58.981 ppb	92.378 %	60.884 ppb	61.063 ppb	92.995 %	59.108 ppb
Concentration per Run 1	61.160 ppb	66.193 ppb	63.216 ppb	56.580 ppb	94.616 %	61.210 ppb	61.226 ppb	96.248 %	60.818 ppb
Concentration per Run 2	62.046 ppb	61.605 ppb	61.327 ppb	60.512 ppb	93.437 %	60.453 ppb	61.156 ppb	94.475 %	57.936 ppb
Concentration per Run 3	61.451 ppb	58.918 ppb	59.849 ppb	59.852 ppb	89.079 %	60.990 ppb	60.808 ppb	88.262 %	58.570 ppb
Concentration RSD	0.7 %	5.9 %	2.7 %	3.6 %	3.2 %	0.6 %	0.4 %	4.5 %	2.6 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	60.446 ppb	97.244 %	98.407 %	60.692 ppb	59.427 ppb
Concentration per Run 1	62.134 ppb	100.250 %	101.298 %	58.724 ppb	59.284 ppb
Concentration per Run 2	60.018 ppb	97.019 %	100.225 %	59.989 ppb	58.343 ppb
Concentration per Run 3	59.187 ppb	94.464 %	93.697 %	63.365 ppb	60.655 ppb
Concentration RSD	2.5 %	3.0 %	4.2 %	4.0 %	2.0 %

Alpha ICPMSQ Data with SRD

3/5/2024 4:47:09 PM

Analysis index:	8	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	120/12000 Cal	Rack	0		
Analysis started at:	3/5/2024 5:34:10 AM	Vial	6		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	85.836 %	88.950 %	118.377 ppb	11,948.630 ppb	11,883.369 ppb	117.842 ppb	11,848.692 ppb	11,919.195 ppb	103.148 %
Concentration per Run 1	86.853 %	97.168 %	119.008 ppb	11,318.440 ppb	11,604.249 ppb	115.990 ppb	11,362.742 ppb	11,537.848 ppb	102.566 %
Concentration per Run 2	86.580 %	83.909 %	117.543 ppb	12,920.692 ppb	12,456.158 ppb	121.604 ppb	12,334.226 ppb	12,054.201 ppb	104.533 %
Concentration per Run 3	84.076 %	85.773 %	118.580 ppb	11,606.759 ppb	11,589.698 ppb	115.931 ppb	11,849.107 ppb	12,165.536 ppb	102.345 %
Concentration RSD	1.8 %	8.1 %	0.6 %	7.1 %	4.2 %	2.8 %	4.1 %	2.8 %	1.2 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	119.677 ppb	119.358 ppb	118.641 ppb	11,305.782 ppb	119.134 ppb	118.442 ppb	119.093 ppb	116.735 ppb	89.841 %
Concentration per Run 1	117.945 ppb	116.920 ppb	118.442 ppb	11,297.936 ppb	116.813 ppb	117.491 ppb	117.650 ppb	114.503 ppb	93.909 %
Concentration per Run 2	120.466 ppb	119.073 ppb	119.320 ppb	11,577.972 ppb	118.816 ppb	116.824 ppb	117.784 ppb	115.661 ppb	92.735 %
Concentration per Run 3	120.620 ppb	122.080 ppb	118.162 ppb	11,644.439 ppb	121.772 ppb	121.012 ppb	121.843 ppb	120.042 ppb	82.878 %
Concentration RSD	1.3 %	2.2 %	0.5 %	1.5 %	2.1 %	1.9 %	2.0 %	2.5 %	6.7 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	119.178 ppb	118.843 ppb	119.211 ppb	120.540 ppb	88.101 %	119.530 ppb	119.445 ppb	88.654 %	120.450 ppb
Concentration per Run 1	118.836 ppb	117.603 ppb	119.533 ppb	116.885 ppb	89.248 %	119.475 ppb	118.122 ppb	92.096 %	119.260 ppb
Concentration per Run 2	116.778 ppb	119.101 ppb	118.662 ppb	121.131 ppb	89.636 %	119.210 ppb	119.205 ppb	89.864 %	119.898 ppb
Concentration per Run 3	121.921 ppb	119.823 ppb	119.439 ppb	123.605 ppb	85.419 %	119.906 ppb	121.007 ppb	84.000 %	122.191 ppb
Concentration RSD	2.2 %	1.0 %	0.4 %	2.8 %	2.6 %	0.3 %	1.2 %	4.7 %	1.3 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	119.756 ppb	93.257 %	95.116 %	119.694 ppb	120.282 ppb
Concentration per Run 1	121.921 ppb	94.226 %	96.812 %	116.704 ppb	118.248 ppb
Concentration per Run 2	120.472 ppb	94.670 %	97.503 %	119.059 ppb	118.994 ppb
Concentration per Run 3	116.876 ppb	90.875 %	91.034 %	123.318 ppb	123.605 ppb
Concentration RSD	2.2 %	2.2 %	3.7 %	2.8 %	2.4 %

Alpha ICPMSQ Data with SRD

3/5/2024 4:47:09 PM

Analysis index: 9
Analysis label: Sr 200ppb
Analysis started at: 3/5/2024 5:39:07 AM
User name ALPHALAB\Metals-Instrument
Rack 4
Vial 55
Comment Sr Inteference Check

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	87.967 %	91.298 %	0.018 ppb	4.607 ppb	1.757 ppb	0.853 ppb	-3.558 ppb	-0.012 ppb	88.746 %
Concentration per Run 1	88.903 %	94.475 %	0.018 ppb	6.235 ppb	1.175 ppb	0.531 ppb	-0.932 ppb	-48.843 ppb	89.531 %
Concentration per Run 2	88.350 %	93.025 %	0.020 ppb	2.677 ppb	3.041 ppb	1.079 ppb	-7.292 ppb	37.227 ppb	89.435 %
Concentration per Run 3	86.649 %	86.395 %	0.016 ppb	4.911 ppb	1.054 ppb	0.950 ppb	-2.450 ppb	11.580 ppb	87.271 %
Concentration RSD	1.3 %	4.7 %	9.1 %	39.0 %	63.4 %	33.6 %	93.4 %	367,665.2 %	1.4 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.015 ppb	0.039 ppb	0.129 ppb	17.049 ppb	0.000 ppb	0.141 ppb	0.085 ppb	0.640 ppb	89.455 %
Concentration per Run 1	-0.008 ppb	0.039 ppb	0.126 ppb	19.197 ppb	0.001 ppb	0.164 ppb	0.117 ppb	0.576 ppb	89.650 %
Concentration per Run 2	-0.015 ppb	0.059 ppb	0.147 ppb	16.440 ppb	0.000 ppb	0.180 ppb	0.076 ppb	0.710 ppb	85.695 %
Concentration per Run 3	-0.023 ppb	0.020 ppb	0.113 ppb	15.511 ppb	0.000 ppb	0.080 ppb	0.061 ppb	0.632 ppb	93.019 %
Concentration RSD	49.4 %	50.5 %	13.3 %	11.2 %	428.8 %	38.2 %	33.8 %	10.5 %	4.1 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.087 ppb	0.761 ppb	193.441 ppb	1.222 ppb	91.165 %	0.006 ppb	0.012 ppb	90.442 %	0.037 ppb
Concentration per Run 1	0.087 ppb	0.797 ppb	196.301 ppb	1.115 ppb	91.290 %	0.007 ppb	0.011 ppb	90.911 %	0.024 ppb
Concentration per Run 2	0.060 ppb	0.575 ppb	187.721 ppb	1.231 ppb	90.218 %	0.007 ppb	0.008 ppb	85.898 %	0.032 ppb
Concentration per Run 3	0.114 ppb	0.911 ppb	196.300 ppb	1.321 ppb	91.985 %	0.003 ppb	0.017 ppb	94.518 %	0.055 ppb
Concentration RSD	30.6 %	22.5 %	2.6 %	8.5 %	1.0 %	44.1 %	38.6 %	4.8 %	44.3 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	0.054 ppb	93.481 %	93.159 %	0.591 ppb	0.023 ppb
Concentration per Run 1	0.040 ppb	94.461 %	92.504 %	0.545 ppb	0.027 ppb
Concentration per Run 2	0.066 ppb	90.409 %	88.656 %	0.693 ppb	0.023 ppb
Concentration per Run 3	0.055 ppb	95.572 %	98.317 %	0.534 ppb	0.020 ppb
Concentration RSD	23.6 %	2.9 %	5.2 %	15.0 %	14.7 %

Alpha ICPMSQ Data with SRD

3/5/2024 4:47:09 PM

Analysis index:	10	User name	ALPHALAB\Metals-Instrument	Comment	ICV
Analysis label:	ICV	Rack	0		
Analysis started at:	3/5/2024 5:43:49 AM	Vial	7		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	86.565 %	91.022 %	51.130 ppb	4,962.579 ppb	5,043.643 ppb	50.937 ppb	5,011.071 ppb	5,072.010 ppb	88.248 %
Concentration per Run 1	88.576 %	93.025 %	50.694 ppb	5,033.298 ppb	5,086.592 ppb	49.263 ppb	5,193.063 ppb	5,156.867 ppb	89.600 %
Concentration per Run 2	86.666 %	87.638 %	51.578 ppb	4,927.122 ppb	4,949.773 ppb	50.195 ppb	4,803.682 ppb	5,018.709 ppb	89.552 %
Concentration per Run 3	84.453 %	92.403 %	51.119 ppb	4,927.318 ppb	5,094.565 ppb	53.352 ppb	5,036.468 ppb	5,040.455 ppb	85.593 %
Recovery Percentage 1			102.260 %	99.252 %	100.873 %	101.874 %	100.221 %	101.440 %	
Concentration RSD	2.4 %	3.2 %	0.9 %	1.2 %	1.6 %	4.2 %	3.9 %	1.5 %	2.6 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	50.037 ppb	50.590 ppb	50.100 ppb	4,985.409 ppb	51.206 ppb	52.008 ppb	51.815 ppb	51.707 ppb	89.342 %
Concentration per Run 1	50.151 ppb	50.702 ppb	51.564 ppb	5,015.414 ppb	51.464 ppb	52.116 ppb	51.815 ppb	51.999 ppb	90.190 %
Concentration per Run 2	49.460 ppb	50.636 ppb	48.892 ppb	4,961.219 ppb	51.622 ppb	52.907 ppb	52.693 ppb	51.648 ppb	86.338 %
Concentration per Run 3	50.501 ppb	50.432 ppb	49.845 ppb	4,979.595 ppb	50.532 ppb	51.002 ppb	50.936 ppb	51.476 ppb	91.497 %
Recovery Percentage 1	100.075 %	101.181 %	100.201 %	99.708 %	102.412 %	104.017 %	103.630 %	103.415 %	
Concentration RSD	1.1 %	0.3 %	2.7 %	0.6 %	1.2 %	1.8 %	1.7 %	0.5 %	3.0 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	51.627 ppb	52.963 ppb	50.700 ppb	49.916 ppb	89.424 %	51.449 ppb	51.631 ppb	88.843 %	50.693 ppb
Concentration per Run 1	52.154 ppb	54.651 ppb	51.427 ppb	48.844 ppb	88.595 %	52.562 ppb	52.581 ppb	87.772 %	51.540 ppb
Concentration per Run 2	51.947 ppb	50.688 ppb	49.466 ppb	50.076 ppb	89.179 %	50.857 ppb	50.583 ppb	86.900 %	50.427 ppb
Concentration per Run 3	50.781 ppb	53.549 ppb	51.207 ppb	50.829 ppb	90.497 %	50.928 ppb	51.729 ppb	91.858 %	50.111 ppb
Recovery Percentage 1	103.255 %	105.925 %	101.400 %	99.832 %		102.898 %	103.262 %		101.386 %
Concentration RSD	1.4 %	3.9 %	2.1 %	2.0 %	1.1 %	1.9 %	1.9 %	3.0 %	1.5 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	51.128 ppb	92.783 %	94.991 %	50.289 ppb	51.605 ppb
Concentration per Run 1	52.325 ppb	91.249 %	91.976 %	51.011 ppb	52.753 ppb
Concentration per Run 2	50.827 ppb	90.660 %	93.377 %	49.440 ppb	52.033 ppb
Concentration per Run 3	50.234 ppb	96.441 %	99.619 %	50.417 ppb	50.030 ppb
Recovery Percentage 1	102.257 %			100.579 %	103.211 %
Concentration RSD	2.1 %	3.4 %	4.3 %	1.6 %	2.7 %

Alpha ICPMSQ Data with SRD

3/5/2024 4:47:09 PM

Analysis index: 11
Analysis label: ICB
Analysis started at: 3/5/2024 5:48:28 AM
User name ALPHALAB\Metals-Instrument
Rack 0
Vial 10
Comment ICB

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	86.288 %	91.298 %	0.011 ppb	0.413 ppb	-0.441 ppb	-0.321 ppb	-1.350 ppb	-0.254 ppb	86.955 %
Concentration per Run 1	87.961 %	90.539 %	0.014 ppb	-1.587 ppb	-0.127 ppb	-0.201 ppb	2.792 ppb	1.833 ppb	88.185 %
Concentration per Run 2	85.740 %	94.061 %	0.007 ppb	1.794 ppb	-0.603 ppb	-0.646 ppb	-6.643 ppb	1.422 ppb	86.011 %
Concentration per Run 3	85.163 %	89.295 %	0.011 ppb	1.032 ppb	-0.593 ppb	-0.115 ppb	-0.200 ppb	-4.017 ppb	86.668 %
Recovery Percentage 1			2.105 %	0.413 %	-0.630 %	-3.209 %	-1.350 %	-0.254 %	
Concentration RSD	1.7 %	2.7 %	35.1 %	429.5 %	61.7 %	88.8 %	357.1 %	1,284.9 %	1.3 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.013 ppb	-0.004 ppb	-0.004 ppb	10.617 ppb	0.000 ppb	0.015 ppb	0.000 ppb	0.041 ppb	87.603 %
Concentration per Run 1	-0.007 ppb	-0.006 ppb	0.021 ppb	10.436 ppb	0.000 ppb	0.043 ppb	-0.005 ppb	0.056 ppb	84.334 %
Concentration per Run 2	-0.015 ppb	-0.003 ppb	-0.037 ppb	12.963 ppb	0.001 ppb	0.011 ppb	0.006 ppb	0.026 ppb	90.171 %
Concentration per Run 3	-0.015 ppb	-0.004 ppb	0.005 ppb	8.454 ppb	0.000 ppb	-0.007 ppb	-0.002 ppb	0.041 ppb	88.302 %
Recovery Percentage 1	-0.250 %	-0.437 %	-0.394 %	21.235 %	0.055 %	0.772 %	-0.015 %	0.812 %	
Concentration RSD	38.2 %	39.4 %	757.2 %	21.3 %	370.6 %	162.2 %	3,564.4 %	37.0 %	3.4 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.073 ppb	0.407 ppb	-0.002 ppb	0.865 ppb	90.490 %	0.002 ppb	0.010 ppb	89.158 %	0.058 ppb
Concentration per Run 1	0.060 ppb	0.131 ppb	-0.005 ppb	0.856 ppb	89.804 %	0.003 ppb	0.009 ppb	88.239 %	0.043 ppb
Concentration per Run 2	0.103 ppb	0.418 ppb	-0.001 ppb	0.854 ppb	90.543 %	0.002 ppb	0.011 ppb	91.969 %	0.057 ppb
Concentration per Run 3	0.057 ppb	0.671 ppb	-0.001 ppb	0.885 ppb	91.125 %	0.001 ppb	0.009 ppb	87.266 %	0.075 ppb
Recovery Percentage 1	14.650 %	8.134 %	-0.021 %	43.247 %		0.570 %	4.866 %		1.458 %
Concentration RSD	34.7 %	66.5 %	114.2 %	2.0 %	0.7 %	48.3 %	13.1 %	2.8 %	28.2 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	0.010 ppb	93.336 %	92.731 %	0.453 ppb	0.015 ppb
Concentration per Run 1	0.025 ppb	90.856 %	91.143 %	0.397 ppb	0.020 ppb
Concentration per Run 2	0.002 ppb	95.294 %	92.549 %	0.537 ppb	0.013 ppb
Concentration per Run 3	0.003 ppb	93.857 %	94.500 %	0.426 ppb	0.012 ppb
Recovery Percentage 1	2.027 %			45.329 %	1.494 %
Concentration RSD	129.7 %	2.4 %	1.8 %	16.3 %	27.9 %

Alpha ICPMSQ Data with SRD

3/5/2024 4:47:09 PM

Analysis index:	12	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	ICSA	Rack	4		
Analysis started at:	3/5/2024 5:53:22 AM	Vial	53		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	75.999 %	86.809 %	0.013 ppb	48,130.432 ppb	18,601.588 ppb	18,664.693 ppb	18,633.787 ppb	56,390.330 ppb	87.614 %
Concentration per Run 1	77.110 %	85.152 %	0.017 ppb	48,978.104 ppb	19,002.496 ppb	18,913.698 ppb	18,754.529 ppb	57,028.891 ppb	88.915 %
Concentration per Run 2	76.145 %	91.367 %	0.022 ppb	46,751.229 ppb	18,014.166 ppb	17,893.981 ppb	18,046.548 ppb	55,432.301 ppb	87.052 %
Concentration per Run 3	74.743 %	83.909 %	0.000 ppb	48,661.964 ppb	18,788.103 ppb	19,186.400 ppb	19,100.285 ppb	56,709.797 ppb	86.875 %
Recovery Percentage 1			2.587 %	96.261 %	93.008 %	93.323 %	93.169 %	93.984 %	
Concentration RSD	1.6 %	4.6 %	91.0 %	2.5 %	2.8 %	3.6 %	2.9 %	1.5 %	1.3 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.009 ppb	0.298 ppb	1.197 ppb	48,357.186 ppb	0.435 ppb	0.732 ppb	0.242 ppb	1.391 ppb	84.925 %
Concentration per Run 1	0.018 ppb	0.342 ppb	1.227 ppb	47,430.658 ppb	0.404 ppb	0.759 ppb	0.237 ppb	1.441 ppb	84.165 %
Concentration per Run 2	-0.015 ppb	0.322 ppb	1.238 ppb	50,796.890 ppb	0.450 ppb	0.682 ppb	0.284 ppb	1.407 ppb	84.738 %
Concentration per Run 3	0.026 ppb	0.229 ppb	1.127 ppb	46,844.009 ppb	0.452 ppb	0.755 ppb	0.207 ppb	1.325 ppb	85.871 %
Recovery Percentage 1	0.379 %	29.768 %	119.728 %	96.714 %	87.096 %	36.592 %	24.247 %	27.822 %	
Concentration RSD	227.6 %	20.2 %	5.1 %	4.4 %	6.2 %	5.9 %	16.2 %	4.3 %	1.0 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.163 ppb	0.829 ppb	0.523 ppb	407.139 ppb	80.274 %	0.007 ppb	0.074 ppb	82.983 %	0.054 ppb
Concentration per Run 1	0.234 ppb	1.012 ppb	0.529 ppb	390.593 ppb	80.341 %	0.007 ppb	0.067 ppb	84.935 %	0.048 ppb
Concentration per Run 2	0.123 ppb	0.484 ppb	0.531 ppb	412.751 ppb	80.139 %	0.005 ppb	0.070 ppb	81.932 %	0.049 ppb
Concentration per Run 3	0.132 ppb	0.991 ppb	0.508 ppb	418.072 ppb	80.341 %	0.009 ppb	0.084 ppb	82.082 %	0.065 ppb
Recovery Percentage 1	32.593 %	16.579 %	104.504 %	101.785 %		1.795 %	36.808 %		1.346 %
Concentration RSD	37.8 %	36.0 %	2.4 %	3.6 %	0.1 %	33.6 %	12.3 %	2.0 %	18.4 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	0.299 ppb	92.425 %	93.995 %	0.155 ppb	0.398 ppb
Concentration per Run 1	0.249 ppb	90.860 %	92.766 %	0.114 ppb	0.393 ppb
Concentration per Run 2	0.301 ppb	93.311 %	94.041 %	0.183 ppb	0.406 ppb
Concentration per Run 3	0.347 ppb	93.104 %	95.178 %	0.169 ppb	0.396 ppb
Recovery Percentage 1	59.853 %			15.529 %	39.828 %
Concentration RSD	16.5 %	1.5 %	1.3 %	23.5 %	1.8 %

Analysis index:	13	User name	ALPHALAB\Metals-Instrument	Comment	WRONG SPOT
Analysis label:	xLDR Check - 10ppm	Rack	1		
Analysis started at:	3/5/2024 5:58:03 AM	Vial	1		

Alpha ICPMSQ Data with SRD

3/5/2024 4:47:09 PM

Analysis index:	14	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	LDR Check - 10ppm	Rack	4		
Analysis started at:	3/5/2024 6:04:38 AM	Vial	1		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	101.985 %	108.564 %	0.008 ppb	6.101 ppb	2.142 ppb	2.067 ppb	2.737 ppb	1.897 ppb	107.107 %
Concentration per Run 1	102.988 %	109.807 %	0.008 ppb	5.061 ppb	2.038 ppb	1.509 ppb	0.522 ppb	-0.280 ppb	107.011 %
Concentration per Run 2	102.890 %	103.177 %	0.007 ppb	7.859 ppb	1.515 ppb	2.347 ppb	2.508 ppb	8.791 ppb	109.062 %
Concentration per Run 3	100.075 %	112.707 %	0.007 ppb	5.384 ppb	2.874 ppb	2.345 ppb	5.180 ppb	-2.821 ppb	105.249 %
Concentration RSD	1.6 %	4.5 %	4.1 %	25.1 %	32.0 %	23.4 %	85.4 %	321.8 %	1.8 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.006 ppb	0.027 ppb	10,306.733 ppb	11.046 ppb	0.208 ppb	0.239 ppb	10,032.440 ppb	9,656.956 ppb	109.853 %
Concentration per Run 1	-0.010 ppb	0.029 ppb	10,287.035 ppb	9.632 ppb	0.236 ppb	0.252 ppb	10,020.859 ppb	9,682.129 ppb	104.844 %
Concentration per Run 2	0.039 ppb	0.034 ppb	10,288.516 ppb	10.875 ppb	0.176 ppb	0.234 ppb	9,837.606 ppb	9,499.139 ppb	114.678 %
Concentration per Run 3	-0.011 ppb	0.018 ppb	10,344.649 ppb	12.631 ppb	0.214 ppb	0.233 ppb	10,238.855 ppb	9,789.600 ppb	110.038 %
Concentration RSD	457.5 %	30.0 %	0.3 %	13.6 %	14.5 %	4.5 %	2.0 %	1.5 %	4.5 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.045 ppb	0.091 ppb	0.219 ppb	0.691 ppb	107.089 %	0.035 ppb	0.018 ppb	111.380 %	0.000 ppb
Concentration per Run 1	0.063 ppb	0.139 ppb	0.224 ppb	0.584 ppb	104.328 %	0.034 ppb	0.021 ppb	111.205 %	-0.002 ppb
Concentration per Run 2	-0.003 ppb	0.064 ppb	0.209 ppb	0.646 ppb	107.932 %	0.038 ppb	0.019 ppb	112.070 %	-0.002 ppb
Concentration per Run 3	0.075 ppb	0.071 ppb	0.224 ppb	0.842 ppb	109.006 %	0.034 ppb	0.013 ppb	110.864 %	0.003 ppb
Concentration RSD	92.7 %	45.6 %	4.0 %	19.5 %	2.3 %	7.3 %	21.7 %	0.6 %	700.9 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	10,153.211 ppb	106.646 %	109.437 %	0.061 ppb	9,655.155 ppb
Concentration per Run 1	10,054.166 ppb	105.889 %	110.381 %	0.047 ppb	9,555.349 ppb
Concentration per Run 2	10,166.587 ppb	105.762 %	109.438 %	0.069 ppb	9,561.721 ppb
Concentration per Run 3	10,238.880 ppb	108.287 %	108.494 %	0.066 ppb	9,848.394 ppb
Concentration RSD	0.9 %	1.3 %	0.9 %	19.4 %	1.7 %

Alpha ICPMSQ Data with SRD

3/5/2024 4:47:09 PM

Analysis index:	15	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	Rinse	Rack	0		
Analysis started at:	3/5/2024 6:09:18 AM	Vial	1		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	95.218 %	103.729 %	0.021 ppb	21.289 ppb	2.746 ppb	1.928 ppb	20.095 ppb	11.389 ppb	103.533 %
Concentration per Run 1	96.442 %	108.771 %	0.019 ppb	20.294 ppb	3.598 ppb	2.033 ppb	13.397 ppb	3.709 ppb	103.572 %
Concentration per Run 2	94.998 %	103.591 %	0.020 ppb	22.555 ppb	2.572 ppb	1.911 ppb	28.338 ppb	10.092 ppb	104.818 %
Concentration per Run 3	94.215 %	98.826 %	0.023 ppb	21.019 ppb	2.069 ppb	1.840 ppb	18.550 ppb	20.366 ppb	102.209 %
Concentration RSD	1.2 %	4.8 %	10.3 %	5.4 %	28.4 %	5.1 %	37.8 %	73.8 %	1.3 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.010 ppb	0.051 ppb	0.268 ppb	15.772 ppb	0.010 ppb	0.237 ppb	0.333 ppb	3.158 ppb	104.184 %
Concentration per Run 1	-0.023 ppb	0.052 ppb	0.326 ppb	14.636 ppb	0.006 ppb	0.275 ppb	0.390 ppb	3.328 ppb	104.791 %
Concentration per Run 2	-0.003 ppb	0.060 ppb	0.250 ppb	16.869 ppb	0.012 ppb	0.230 ppb	0.343 ppb	3.084 ppb	103.775 %
Concentration per Run 3	-0.003 ppb	0.042 ppb	0.229 ppb	15.812 ppb	0.012 ppb	0.205 ppb	0.266 ppb	3.062 ppb	103.985 %
Concentration RSD	121.3 %	17.8 %	19.0 %	7.1 %	38.0 %	15.0 %	18.8 %	4.7 %	0.5 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.032 ppb	0.098 ppb	0.028 ppb	0.428 ppb	105.009 %	0.004 ppb	0.002 ppb	104.827 %	0.001 ppb
Concentration per Run 1	0.048 ppb	0.031 ppb	0.035 ppb	0.399 ppb	107.617 %	0.003 ppb	0.000 ppb	106.650 %	-0.007 ppb
Concentration per Run 2	0.000 ppb	0.158 ppb	0.028 ppb	0.406 ppb	104.493 %	0.004 ppb	0.002 ppb	105.453 %	-0.001 ppb
Concentration per Run 3	0.047 ppb	0.104 ppb	0.020 ppb	0.480 ppb	102.917 %	0.005 ppb	0.004 ppb	102.377 %	0.011 ppb
Concentration RSD	87.3 %	65.4 %	26.7 %	10.5 %	2.3 %	22.7 %	100.8 %	2.1 %	1,081.5 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	0.165 ppb	103.273 %	104.122 %	0.044 ppb	0.635 ppb
Concentration per Run 1	0.196 ppb	104.675 %	103.902 %	0.028 ppb	0.745 ppb
Concentration per Run 2	0.156 ppb	102.411 %	104.323 %	0.053 ppb	0.618 ppb
Concentration per Run 3	0.144 ppb	102.733 %	104.142 %	0.053 ppb	0.540 ppb
Concentration RSD	16.6 %	1.2 %	0.2 %	32.6 %	16.3 %

Alpha ICPMSQ Data with SRD

3/5/2024 4:47:09 PM

Analysis index:	16	User name	ALPHALAB\Metals-Instrument	Comment	CCV/MCCV
Analysis label:	CCV	Rack	0		
Analysis started at:	3/5/2024 6:13:54 AM	Vial	9		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	87.115 %	99.171 %	60.573 ppb	6,214.946 ppb	6,400.782 ppb	64.445 ppb	6,421.590 ppb	6,555.393 ppb	97.432 %
Concentration per Run 1	88.895 %	103.591 %	60.677 ppb	6,249.692 ppb	6,463.376 ppb	60.172 ppb	6,349.321 ppb	6,639.233 ppb	97.648 %
Concentration per Run 2	87.354 %	99.655 %	60.048 ppb	6,124.740 ppb	6,335.770 ppb	64.283 ppb	5,894.910 ppb	6,252.258 ppb	98.350 %
Concentration per Run 3	85.097 %	94.268 %	60.994 ppb	6,270.406 ppb	6,403.199 ppb	68.881 ppb	7,020.541 ppb	6,774.686 ppb	96.297 %
Recovery Percentage 1			100.955 %	103.582 %	106.680 %	107.408 %	107.027 %	109.257 %	
Concentration RSD	2.2 %	4.7 %	0.8 %	1.3 %	1.0 %	6.8 %	8.8 %	4.1 %	1.1 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	63.318 ppb	62.302 ppb	63.110 ppb	6,151.389 ppb	63.009 ppb	64.265 ppb	63.203 ppb	65.326 ppb	97.382 %
Concentration per Run 1	64.391 ppb	62.311 ppb	61.914 ppb	6,153.416 ppb	64.662 ppb	65.907 ppb	64.752 ppb	68.727 ppb	96.682 %
Concentration per Run 2	62.413 ppb	61.720 ppb	62.318 ppb	6,116.267 ppb	62.447 ppb	63.708 ppb	63.608 ppb	65.533 ppb	97.185 %
Concentration per Run 3	63.151 ppb	62.876 ppb	65.098 ppb	6,184.483 ppb	61.917 ppb	63.179 ppb	61.250 ppb	61.716 ppb	98.280 %
Recovery Percentage 1	105.531 %	103.837 %	105.183 %	102.523 %	105.015 %	107.108 %	105.339 %	108.876 %	
Concentration RSD	1.6 %	0.9 %	2.7 %	0.6 %	2.3 %	2.3 %	2.8 %	5.4 %	0.8 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	63.320 ppb	63.296 ppb	63.442 ppb	58.993 ppb	97.154 %	61.161 ppb	61.179 ppb	99.785 %	59.826 ppb
Concentration per Run 1	65.166 ppb	61.836 ppb	62.930 ppb	59.091 ppb	97.968 %	62.369 ppb	62.829 ppb	97.553 %	61.092 ppb
Concentration per Run 2	61.662 ppb	62.894 ppb	61.319 ppb	58.875 ppb	96.754 %	62.069 ppb	61.464 ppb	97.764 %	59.820 ppb
Concentration per Run 3	63.132 ppb	65.158 ppb	66.078 ppb	59.013 ppb	96.741 %	59.045 ppb	59.245 ppb	104.037 %	58.566 ppb
Recovery Percentage 1	105.533 %	105.493 %	105.737 %	98.322 %		101.935 %	101.966 %		99.710 %
Concentration RSD	2.8 %	2.7 %	3.8 %	0.2 %	0.7 %	3.0 %	3.0 %	3.7 %	2.1 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	61.244 ppb	100.602 %	101.878 %	60.722 ppb	60.735 ppb
Concentration per Run 1	61.927 ppb	100.546 %	101.018 %	60.817 ppb	61.828 ppb
Concentration per Run 2	60.810 ppb	99.313 %	100.444 %	61.577 ppb	60.894 ppb
Concentration per Run 3	60.996 ppb	101.947 %	104.171 %	59.772 ppb	59.482 ppb
Recovery Percentage 1	102.074 %			101.204 %	101.224 %
Concentration RSD	1.0 %	1.3 %	2.0 %	1.5 %	1.9 %

Alpha ICPMSQ Data with SRD

3/5/2024 4:47:09 PM

Analysis index:	17	User name	ALPHALAB\Metals-Instrument	Comment	CCB
Analysis label:	CCB	Rack	0		
Analysis started at:	3/5/2024 6:18:35 AM	Vial	10		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	86.650 %	97.514 %	0.010 ppb	-0.791 ppb	-0.463 ppb	-0.126 ppb	-0.326 ppb	-0.895 ppb	88.140 %
Concentration per Run 1	86.604 %	98.204 %	0.012 ppb	-0.111 ppb	0.036 ppb	0.086 ppb	0.603 ppb	-2.764 ppb	88.243 %
Concentration per Run 2	87.258 %	93.232 %	0.012 ppb	-1.846 ppb	-0.599 ppb	-0.215 ppb	1.371 ppb	-1.215 ppb	88.470 %
Concentration per Run 3	86.089 %	101.105 %	0.005 ppb	-0.417 ppb	-0.826 ppb	-0.249 ppb	-2.952 ppb	1.292 ppb	87.708 %
Recovery Percentage 1			1.904 %	-0.791 %	-0.661 %	-1.260 %	-0.326 %	-0.895 %	
Concentration RSD	0.7 %	4.1 %	39.4 %	117.0 %	96.5 %	146.4 %	706.8 %	228.6 %	0.4 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.001 ppb	-0.001 ppb	0.003 ppb	12.075 ppb	-0.002 ppb	0.011 ppb	0.034 ppb	0.189 ppb	88.595 %
Concentration per Run 1	0.014 ppb	0.009 ppb	0.016 ppb	12.197 ppb	-0.002 ppb	0.004 ppb	0.014 ppb	0.152 ppb	90.341 %
Concentration per Run 2	-0.015 ppb	-0.002 ppb	-0.009 ppb	11.815 ppb	0.000 ppb	-0.013 ppb	0.050 ppb	0.234 ppb	86.216 %
Concentration per Run 3	-0.001 ppb	-0.010 ppb	0.003 ppb	12.213 ppb	-0.002 ppb	0.042 ppb	0.038 ppb	0.181 ppb	89.227 %
Recovery Percentage 1	-0.012 %	-0.109 %	0.350 %	24.151 %	-0.321 %	0.538 %	3.393 %	3.779 %	
Concentration RSD	2,416.1 %	881.8 %	364.5 %	1.9 %	68.9 %	260.1 %	54.4 %	22.1 %	2.4 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.125 ppb	0.285 ppb	-0.002 ppb	0.936 ppb	92.613 %	0.002 ppb	0.007 ppb	94.130 %	0.018 ppb
Concentration per Run 1	0.110 ppb	0.464 ppb	0.002 ppb	0.868 ppb	91.610 %	0.003 ppb	0.010 ppb	93.758 %	0.010 ppb
Concentration per Run 2	0.138 ppb	0.125 ppb	0.001 ppb	0.949 ppb	91.821 %	0.002 ppb	0.004 ppb	90.489 %	0.022 ppb
Concentration per Run 3	0.127 ppb	0.267 ppb	-0.007 ppb	0.990 ppb	94.407 %	0.002 ppb	0.007 ppb	98.145 %	0.023 ppb
Recovery Percentage 1	24.990 %	5.709 %	-0.015 %	46.787 %		0.571 %	3.435 %		0.455 %
Concentration RSD	11.2 %	59.8 %	333.3 %	6.6 %	1.7 %	30.9 %	44.0 %	4.1 %	38.7 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	0.007 ppb	95.389 %	95.254 %	0.426 ppb	0.127 ppb
Concentration per Run 1	0.002 ppb	93.918 %	93.953 %	0.404 ppb	0.139 ppb
Concentration per Run 2	0.008 ppb	94.119 %	93.478 %	0.486 ppb	0.125 ppb
Concentration per Run 3	0.012 ppb	98.130 %	98.330 %	0.387 ppb	0.118 ppb
Recovery Percentage 1	1.495 %			42.586 %	12.740 %
Concentration RSD	65.6 %	2.5 %	2.8 %	12.5 %	8.6 %

Alpha ICPMSQ Data with SRD

3/5/2024 4:47:09 PM

Analysis index:	18	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	WG1891871-1 6020SL	Rack	1		
Analysis started at:	3/5/2024 6:28:23 AM	Vial	1		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	92.679 %	94.337 %	0.004 ppb	7.148 ppb	1.907 ppb	1.670 ppb	1.591 ppb	14.485 ppb	97.866 %
Concentration per Run 1	95.627 %	98.619 %	0.004 ppb	5.443 ppb	0.886 ppb	2.187 ppb	-0.188 ppb	14.319 ppb	100.784 %
Concentration per Run 2	92.277 %	93.854 %	0.007 ppb	8.339 ppb	2.015 ppb	1.576 ppb	7.494 ppb	15.460 ppb	97.053 %
Concentration per Run 3	90.134 %	90.539 %	0.002 ppb	7.664 ppb	2.820 ppb	1.246 ppb	-2.534 ppb	13.676 ppb	95.759 %
Concentration RSD	3.0 %	4.3 %	61.8 %	21.2 %	50.9 %	28.6 %	329.8 %	6.2 %	2.7 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.013 ppb	0.064 ppb	0.072 ppb	3.917 ppb	0.001 ppb	0.041 ppb	0.186 ppb	0.542 ppb	93.753 %
Concentration per Run 1	-0.016 ppb	0.079 ppb	0.016 ppb	4.462 ppb	0.003 ppb	0.040 ppb	0.228 ppb	0.499 ppb	91.800 %
Concentration per Run 2	-0.001 ppb	0.054 ppb	0.143 ppb	4.103 ppb	-0.001 ppb	0.060 ppb	0.179 ppb	0.572 ppb	97.442 %
Concentration per Run 3	-0.023 ppb	0.060 ppb	0.058 ppb	3.187 ppb	0.001 ppb	0.023 ppb	0.150 ppb	0.556 ppb	92.016 %
Concentration RSD	81.9 %	20.7 %	89.8 %	16.8 %	134.8 %	45.8 %	21.2 %	7.1 %	3.4 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.026 ppb	0.030 ppb	0.016 ppb	0.180 ppb	97.211 %	0.002 ppb	0.004 ppb	96.798 %	-0.008 ppb
Concentration per Run 1	0.084 ppb	0.082 ppb	0.018 ppb	0.169 ppb	97.429 %	-0.001 ppb	0.007 ppb	99.098 %	-0.013 ppb
Concentration per Run 2	0.025 ppb	-0.019 ppb	0.012 ppb	0.167 ppb	97.029 %	0.003 ppb	0.004 ppb	96.207 %	-0.001 ppb
Concentration per Run 3	-0.032 ppb	0.027 ppb	0.018 ppb	0.205 ppb	97.176 %	0.003 ppb	0.001 ppb	95.089 %	-0.009 ppb
Concentration RSD	227.1 %	168.3 %	21.9 %	11.9 %	0.2 %	121.5 %	74.3 %	2.1 %	79.3 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	0.029 ppb	98.746 %	98.335 %	0.081 ppb	0.075 ppb
Concentration per Run 1	0.027 ppb	99.301 %	99.430 %	0.057 ppb	0.079 ppb
Concentration per Run 2	0.028 ppb	98.744 %	99.310 %	0.098 ppb	0.074 ppb
Concentration per Run 3	0.033 ppb	98.194 %	96.265 %	0.087 ppb	0.071 ppb
Concentration RSD	11.5 %	0.6 %	1.8 %	26.1 %	5.6 %

Alpha ICPMSQ Data with SRD

3/5/2024 4:47:09 PM

Analysis index: 19
Analysis label: WG1891871-2d10 6020SL
Analysis started at: 3/5/2024 6:32:59 AM

User name ALPHALAB\Metals-Instrument
Rack 1
Vial 2

Comment <Comment>

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	86.694 %	91.091 %	5.340 ppb	1,058.931 ppb	1,043.959 ppb	207.128 ppb	1,087.055 ppb	985.431 ppb	88.811 %
Concentration per Run 1	86.760 %	96.754 %	5.279 ppb	1,040.646 ppb	1,030.050 ppb	202.735 ppb	1,039.758 ppb	912.630 ppb	87.871 %
Concentration per Run 2	87.332 %	83.909 %	5.353 ppb	1,080.885 ppb	1,071.703 ppb	211.830 ppb	1,143.607 ppb	1,000.561 ppb	89.529 %
Concentration per Run 3	85.990 %	92.610 %	5.388 ppb	1,055.262 ppb	1,030.124 ppb	206.818 ppb	1,077.802 ppb	1,043.102 ppb	89.032 %
Concentration RSD	0.8 %	7.2 %	1.0 %	1.9 %	2.3 %	2.2 %	4.8 %	6.8 %	1.0 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	52.264 ppb	21.278 ppb	54.077 ppb	112.450 ppb	53.640 ppb	54.986 ppb	27.342 ppb	52.419 ppb	91.172 %
Concentration per Run 1	52.938 ppb	21.126 ppb	52.085 ppb	112.881 ppb	53.405 ppb	54.304 ppb	27.060 ppb	52.654 ppb	93.542 %
Concentration per Run 2	52.234 ppb	21.425 ppb	55.213 ppb	121.585 ppb	54.458 ppb	56.763 ppb	27.647 ppb	51.682 ppb	89.483 %
Concentration per Run 3	51.619 ppb	21.284 ppb	54.934 ppb	102.883 ppb	53.058 ppb	53.892 ppb	27.319 ppb	52.920 ppb	90.491 %
Concentration RSD	1.3 %	0.7 %	3.2 %	8.3 %	1.4 %	2.8 %	1.1 %	1.2 %	2.3 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	12.545 ppb	11.913 ppb	100.457 ppb	97.921 ppb	91.780 %	5.177 ppb	5.602 ppb	91.423 %	34.968 ppb
Concentration per Run 1	12.601 ppb	12.775 ppb	100.905 ppb	95.816 ppb	94.375 %	5.104 ppb	5.446 ppb	95.664 %	32.665 ppb
Concentration per Run 2	12.304 ppb	10.856 ppb	97.590 ppb	98.224 ppb	89.678 %	5.222 ppb	5.591 ppb	87.319 %	35.213 ppb
Concentration per Run 3	12.730 ppb	12.107 ppb	102.878 ppb	99.723 ppb	91.289 %	5.207 ppb	5.770 ppb	91.287 %	37.026 ppb
Concentration RSD	1.7 %	8.2 %	2.7 %	2.0 %	2.6 %	1.2 %	2.9 %	4.6 %	6.3 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	210.673 ppb	96.060 %	96.820 %	12.035 ppb	55.574 ppb
Concentration per Run 1	204.661 ppb	98.114 %	97.576 %	11.928 ppb	55.150 ppb
Concentration per Run 2	207.692 ppb	94.515 %	94.201 %	12.264 ppb	56.463 ppb
Concentration per Run 3	219.667 ppb	95.550 %	98.685 %	11.913 ppb	55.107 ppb
Concentration RSD	3.8 %	1.9 %	2.4 %	1.6 %	1.4 %

Alpha ICPMSQ Data with SRD

3/5/2024 4:47:09 PM

Analysis index:	20	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	WG1890895-2d20 6020TL	Rack	1		
Analysis started at:	3/5/2024 6:37:37 AM	Vial	23		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	84.665 %	91.298 %	2.551 ppb	495.427 ppb	492.101 ppb	93.817 ppb	488.359 ppb	457.961 ppb	85.949 %
Concentration per Run 1	86.041 %	96.754 %	2.553 ppb	476.280 ppb	481.376 ppb	88.680 ppb	474.733 ppb	454.478 ppb	86.946 %
Concentration per Run 2	84.805 %	84.945 %	2.553 ppb	503.790 ppb	492.759 ppb	101.299 ppb	491.612 ppb	434.439 ppb	85.931 %
Concentration per Run 3	83.149 %	92.196 %	2.545 ppb	506.213 ppb	502.169 ppb	91.472 ppb	498.732 ppb	484.965 ppb	84.971 %
Concentration RSD	1.7 %	6.5 %	0.2 %	3.4 %	2.1 %	7.1 %	2.5 %	5.6 %	1.1 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	25.046 ppb	10.105 ppb	24.980 ppb	53.933 ppb	25.734 ppb	25.917 ppb	13.075 ppb	25.442 ppb	87.855 %
Concentration per Run 1	24.534 ppb	10.030 ppb	25.367 ppb	52.204 ppb	25.969 ppb	26.088 ppb	12.769 ppb	25.436 ppb	89.665 %
Concentration per Run 2	25.003 ppb	10.096 ppb	24.502 ppb	54.905 ppb	25.801 ppb	26.065 ppb	13.667 ppb	25.316 ppb	84.679 %
Concentration per Run 3	25.600 ppb	10.189 ppb	25.072 ppb	54.688 ppb	25.432 ppb	25.597 ppb	12.790 ppb	25.574 ppb	89.222 %
Concentration RSD	2.1 %	0.8 %	1.8 %	2.8 %	1.1 %	1.1 %	3.9 %	0.5 %	3.1 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	6.176 ppb	5.843 ppb	48.797 ppb	48.387 ppb	89.641 %	2.487 ppb	2.657 ppb	87.898 %	24.007 ppb
Concentration per Run 1	6.418 ppb	6.460 ppb	49.331 ppb	47.426 ppb	90.013 %	2.496 ppb	2.652 ppb	90.289 %	23.836 ppb
Concentration per Run 2	5.898 ppb	5.389 ppb	47.431 ppb	48.324 ppb	89.346 %	2.504 ppb	2.674 ppb	83.998 %	24.357 ppb
Concentration per Run 3	6.212 ppb	5.678 ppb	49.629 ppb	49.412 ppb	89.565 %	2.461 ppb	2.647 ppb	89.408 %	23.830 ppb
Concentration RSD	4.2 %	9.5 %	2.4 %	2.1 %	0.4 %	0.9 %	0.5 %	3.9 %	1.3 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	101.566 ppb	93.927 %	94.571 %	5.835 ppb	27.199 ppb
Concentration per Run 1	100.871 ppb	95.114 %	95.427 %	5.718 ppb	27.217 ppb
Concentration per Run 2	103.350 ppb	91.502 %	93.674 %	5.887 ppb	27.176 ppb
Concentration per Run 3	100.478 ppb	95.163 %	94.612 %	5.899 ppb	27.206 ppb
Concentration RSD	1.5 %	2.2 %	0.9 %	1.7 %	0.1 %

Alpha ICPMSQ Data with SRD

3/5/2024 4:47:09 PM

Analysis index:	21	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	WG1891325-2d20 6020SL	Rack	1		
Analysis started at:	3/5/2024 6:42:15 AM	Vial	24		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	83.040 %	89.365 %	2.518 ppb	483.980 ppb	479.913 ppb	97.253 ppb	485.621 ppb	440.075 ppb	86.815 %
Concentration per Run 1	84.973 %	89.917 %	2.503 ppb	485.324 ppb	488.043 ppb	96.022 ppb	508.347 ppb	415.115 ppb	88.128 %
Concentration per Run 2	82.560 %	89.295 %	2.567 ppb	478.250 ppb	478.790 ppb	96.563 ppb	483.503 ppb	453.366 ppb	86.159 %
Concentration per Run 3	81.586 %	88.881 %	2.484 ppb	488.367 ppb	472.906 ppb	99.174 ppb	465.013 ppb	451.745 ppb	86.158 %
Concentration RSD	2.1 %	0.6 %	1.7 %	1.1 %	1.6 %	1.7 %	4.5 %	4.9 %	1.3 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	24.011 ppb	9.836 ppb	25.209 ppb	56.996 ppb	24.966 ppb	25.544 ppb	12.524 ppb	25.194 ppb	89.236 %
Concentration per Run 1	25.387 ppb	10.325 ppb	25.712 ppb	60.116 ppb	25.526 ppb	26.340 ppb	13.106 ppb	25.831 ppb	85.658 %
Concentration per Run 2	23.245 ppb	9.166 ppb	24.388 ppb	55.545 ppb	24.333 ppb	24.837 ppb	12.117 ppb	25.091 ppb	92.223 %
Concentration per Run 3	23.401 ppb	10.018 ppb	25.528 ppb	55.327 ppb	25.038 ppb	25.454 ppb	12.349 ppb	24.659 ppb	89.826 %
Concentration RSD	5.0 %	6.1 %	2.8 %	4.7 %	2.4 %	3.0 %	4.1 %	2.4 %	3.7 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	5.799 ppb	6.298 ppb	48.435 ppb	47.479 ppb	88.474 %	2.491 ppb	2.782 ppb	88.000 %	20.074 ppb
Concentration per Run 1	6.060 ppb	6.045 ppb	49.216 ppb	48.484 ppb	88.386 %	2.547 ppb	2.893 ppb	87.415 %	19.922 ppb
Concentration per Run 2	5.692 ppb	6.379 ppb	47.511 ppb	46.798 ppb	87.832 %	2.462 ppb	2.732 ppb	86.899 %	20.556 ppb
Concentration per Run 3	5.645 ppb	6.470 ppb	48.578 ppb	47.155 ppb	89.205 %	2.462 ppb	2.721 ppb	89.686 %	19.744 ppb
Concentration RSD	3.9 %	3.6 %	1.8 %	1.9 %	0.8 %	2.0 %	3.5 %	1.7 %	2.1 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	100.398 ppb	93.270 %	94.018 %	5.787 ppb	26.514 ppb
Concentration per Run 1	100.442 ppb	90.926 %	92.969 %	5.844 ppb	27.112 ppb
Concentration per Run 2	102.578 ppb	93.166 %	93.350 %	5.826 ppb	26.504 ppb
Concentration per Run 3	98.174 ppb	95.718 %	95.735 %	5.692 ppb	25.928 ppb
Concentration RSD	2.2 %	2.6 %	1.6 %	1.4 %	2.2 %

Alpha ICPMSQ Data with SRD

3/5/2024 4:47:09 PM

Analysis index:	22	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	WG1891871-3d10 6020SL	Rack	1		
Analysis started at:	3/5/2024 6:46:54 AM	Vial	4		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	81.014 %	86.257 %	5.564 ppb	3,903.269 ppb	1,354.341 ppb	566.419 ppb	1,279.663 ppb	1,574.150 ppb	82.080 %
Concentration per Run 1	83.222 %	84.116 %	5.606 ppb	3,994.606 ppb	1,388.364 ppb	582.113 ppb	1,317.374 ppb	1,641.906 ppb	83.619 %
Concentration per Run 2	81.360 %	93.646 %	5.553 ppb	3,632.942 ppb	1,290.331 ppb	530.877 ppb	1,228.866 ppb	1,503.094 ppb	82.687 %
Concentration per Run 3	78.460 %	81.008 %	5.532 ppb	4,082.258 ppb	1,384.327 ppb	586.266 ppb	1,292.750 ppb	1,577.451 ppb	79.934 %
Concentration RSD	3.0 %	7.6 %	0.7 %	6.1 %	4.1 %	5.4 %	3.6 %	4.4 %	2.3 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	51.536 ppb	21.235 ppb	54.034 ppb	335.263 ppb	54.376 ppb	55.400 ppb	41.123 ppb	63.994 ppb	86.893 %
Concentration per Run 1	51.820 ppb	21.606 ppb	54.310 ppb	341.927 ppb	55.625 ppb	56.496 ppb	40.896 ppb	64.146 ppb	88.759 %
Concentration per Run 2	50.345 ppb	20.752 ppb	52.763 ppb	324.402 ppb	53.289 ppb	55.228 ppb	41.325 ppb	63.375 ppb	85.546 %
Concentration per Run 3	52.443 ppb	21.347 ppb	55.029 ppb	339.461 ppb	54.214 ppb	54.475 ppb	41.149 ppb	64.460 ppb	86.374 %
Concentration RSD	2.1 %	2.1 %	2.1 %	2.8 %	2.2 %	1.8 %	0.5 %	0.9 %	1.9 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	12.511 ppb	12.896 ppb	106.648 ppb	99.987 ppb	86.481 %	5.132 ppb	5.620 ppb	87.726 %	44.570 ppb
Concentration per Run 1	12.268 ppb	12.837 ppb	106.773 ppb	98.744 ppb	86.509 %	5.104 ppb	5.694 ppb	88.394 %	43.621 ppb
Concentration per Run 2	12.882 ppb	13.650 ppb	106.482 ppb	99.368 ppb	86.992 %	5.167 ppb	5.548 ppb	86.533 %	45.422 ppb
Concentration per Run 3	12.383 ppb	12.200 ppb	106.689 ppb	101.848 ppb	85.942 %	5.126 ppb	5.618 ppb	88.250 %	44.666 ppb
Concentration RSD	2.6 %	5.6 %	0.1 %	1.6 %	0.6 %	0.6 %	1.3 %	1.2 %	2.0 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	232.792 ppb	93.598 %	93.976 %	12.056 ppb	55.618 ppb
Concentration per Run 1	228.474 ppb	92.892 %	93.217 %	12.165 ppb	55.950 ppb
Concentration per Run 2	237.218 ppb	94.138 %	93.529 %	11.976 ppb	55.481 ppb
Concentration per Run 3	232.684 ppb	93.764 %	95.183 %	12.028 ppb	55.424 ppb
Concentration RSD	1.9 %	0.7 %	1.1 %	0.8 %	0.5 %

Alpha ICPMSQ Data with SRD

3/5/2024 4:47:09 PM

Analysis index: 23
Analysis label: WG1891871-5d10 6020SL
Analysis started at: 3/5/2024 6:51:32 AM
User name ALPHALAB\Metals-Instrument
Rack 1
Vial 6
Comment <Comment>

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	79.282 %	81.492 %	49.658 ppb	7,826.706 ppb	5,421.944 ppb	421.135 ppb	5,147.316 ppb	5,618.204 ppb	83.418 %
Concentration per Run 1	79.971 %	82.666 %	49.971 ppb	7,674.425 ppb	5,308.972 ppb	411.825 ppb	5,086.651 ppb	5,523.318 ppb	84.311 %
Concentration per Run 2	79.431 %	81.837 %	49.541 ppb	7,908.382 ppb	5,499.422 ppb	413.479 ppb	5,243.982 ppb	5,674.681 ppb	83.664 %
Concentration per Run 3	78.445 %	79.972 %	49.462 ppb	7,897.312 ppb	5,457.437 ppb	438.102 ppb	5,111.316 ppb	5,656.612 ppb	82.279 %
Concentration RSD	1.0 %	1.7 %	0.6 %	1.7 %	1.8 %	3.5 %	1.6 %	1.5 %	1.2 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	49.066 ppb	49.299 ppb	51.195 ppb	5,024.131 ppb	50.647 ppb	51.853 ppb	63.928 ppb	60.977 ppb	85.057 %
Concentration per Run 1	49.778 ppb	49.287 ppb	49.907 ppb	5,057.231 ppb	50.818 ppb	53.557 ppb	63.874 ppb	62.046 ppb	85.130 %
Concentration per Run 2	49.861 ppb	50.056 ppb	50.666 ppb	5,009.244 ppb	50.738 ppb	51.167 ppb	65.274 ppb	61.303 ppb	84.378 %
Concentration per Run 3	47.560 ppb	48.555 ppb	53.011 ppb	5,005.918 ppb	50.386 ppb	50.836 ppb	62.637 ppb	59.582 ppb	85.662 %
Concentration RSD	2.7 %	1.5 %	3.2 %	0.6 %	0.5 %	2.9 %	2.1 %	2.1 %	0.8 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	48.608 ppb	50.665 ppb	55.784 ppb	50.072 ppb	83.886 %	0.497 ppb	49.550 ppb	86.144 %	50.982 ppb
Concentration per Run 1	48.345 ppb	54.317 ppb	56.209 ppb	49.518 ppb	83.453 %	0.517 ppb	49.878 ppb	86.734 %	51.146 ppb
Concentration per Run 2	48.610 ppb	49.132 ppb	55.190 ppb	50.353 ppb	85.002 %	0.481 ppb	49.100 ppb	85.345 %	50.632 ppb
Concentration per Run 3	48.869 ppb	48.545 ppb	55.953 ppb	50.344 ppb	83.204 %	0.492 ppb	49.672 ppb	86.352 %	51.168 ppb
Concentration RSD	0.5 %	6.3 %	1.0 %	1.0 %	1.2 %	3.7 %	0.8 %	0.8 %	0.6 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	67.449 ppb	91.843 %	91.503 %	47.216 ppb	50.150 ppb
Concentration per Run 1	67.425 ppb	90.756 %	91.843 %	45.814 ppb	49.869 ppb
Concentration per Run 2	67.209 ppb	92.912 %	92.906 %	47.159 ppb	49.538 ppb
Concentration per Run 3	67.712 ppb	91.861 %	89.758 %	48.675 ppb	51.043 ppb
Concentration RSD	0.4 %	1.2 %	1.8 %	3.0 %	1.6 %

Alpha ICPMSQ Data with SRD

3/5/2024 4:47:09 PM

Analysis index:	24	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	WG1891871-4 6020SL	Rack	1		
Analysis started at:	3/5/2024 6:56:10 AM	Vial	5		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	80.270 %	84.876 %	1.625 ppb	28,706.869 ppb	3,157.664 ppb	3,475.270 ppb	2,364.970 ppb	6,390.965 ppb	85.916 %
Concentration per Run 1	80.786 %	84.945 %	1.610 ppb	28,578.124 ppb	3,162.075 ppb	3,489.784 ppb	2,370.086 ppb	6,433.905 ppb	86.911 %
Concentration per Run 2	81.039 %	83.909 %	1.656 ppb	28,651.873 ppb	3,150.592 ppb	3,487.126 ppb	2,380.306 ppb	6,534.958 ppb	86.159 %
Concentration per Run 3	78.986 %	85.773 %	1.609 ppb	28,890.611 ppb	3,160.325 ppb	3,448.901 ppb	2,344.518 ppb	6,204.032 ppb	84.678 %
Concentration RSD	1.4 %	1.1 %	1.7 %	0.6 %	0.2 %	0.7 %	0.8 %	2.7 %	1.3 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	1.008 ppb	0.107 ppb	12.338 ppb	2,243.621 ppb	14.644 ppb	19.704 ppb	142.881 ppb	110.252 ppb	84.244 %
Concentration per Run 1	1.116 ppb	0.098 ppb	12.312 ppb	2,302.076 ppb	15.372 ppb	20.766 ppb	148.570 ppb	112.205 ppb	80.889 %
Concentration per Run 2	1.057 ppb	0.118 ppb	12.296 ppb	2,264.267 ppb	14.745 ppb	19.558 ppb	144.933 ppb	112.968 ppb	82.425 %
Concentration per Run 3	0.852 ppb	0.104 ppb	12.405 ppb	2,164.521 ppb	13.816 ppb	18.788 ppb	135.140 ppb	105.582 ppb	89.417 %
Concentration RSD	13.7 %	9.8 %	0.5 %	3.2 %	5.3 %	5.1 %	4.9 %	3.7 %	5.4 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.349 ppb	2.850 ppb	41.403 ppb	1.534 ppb	80.861 %	0.001 ppb	0.121 ppb	84.119 %	1.166 ppb
Concentration per Run 1	0.383 ppb	3.239 ppb	41.913 ppb	1.596 ppb	78.106 %	0.000 ppb	0.134 ppb	79.782 %	1.148 ppb
Concentration per Run 2	0.340 ppb	2.456 ppb	40.859 ppb	1.483 ppb	81.314 %	0.000 ppb	0.100 ppb	86.001 %	1.128 ppb
Concentration per Run 3	0.324 ppb	2.856 ppb	41.435 ppb	1.524 ppb	83.163 %	0.002 ppb	0.131 ppb	86.575 %	1.222 ppb
Concentration RSD	8.9 %	13.7 %	1.3 %	3.7 %	3.2 %	118.3 %	15.4 %	4.5 %	4.3 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	179.558 ppb	92.663 %	93.416 %	0.415 ppb	0.420 ppb
Concentration per Run 1	185.123 ppb	88.410 %	90.604 %	0.391 ppb	0.434 ppb
Concentration per Run 2	179.111 ppb	93.251 %	94.721 %	0.479 ppb	0.408 ppb
Concentration per Run 3	174.440 ppb	96.327 %	94.922 %	0.376 ppb	0.418 ppb
Concentration RSD	3.0 %	4.3 %	2.6 %	13.5 %	3.2 %

Alpha ICPMSQ Data with SRD

3/5/2024 4:47:09 PM

Analysis index:	25	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	L2411412-01 6020SL	Rack	1		
Analysis started at:	3/5/2024 7:00:48 AM	Vial	3		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	82.039 %	89.503 %	1.599 ppb	28,444.267 ppb	3,187.962 ppb	3,545.117 ppb	2,373.087 ppb	6,298.662 ppb	90.750 %
Concentration per Run 1	82.077 %	89.295 %	1.566 ppb	27,559.693 ppb	3,052.579 ppb	3,471.048 ppb	2,345.265 ppb	6,420.223 ppb	88.880 %
Concentration per Run 2	82.459 %	92.610 %	1.624 ppb	27,663.261 ppb	3,103.972 ppb	3,312.266 ppb	2,309.571 ppb	5,947.636 ppb	92.780 %
Concentration per Run 3	81.582 %	86.602 %	1.608 ppb	30,109.846 ppb	3,407.335 ppb	3,852.036 ppb	2,464.426 ppb	6,528.126 ppb	90.590 %
Concentration RSD	0.5 %	3.4 %	1.9 %	5.1 %	6.0 %	7.8 %	3.4 %	4.9 %	2.2 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.947 ppb	0.112 ppb	12.853 ppb	2,263.136 ppb	14.809 ppb	19.888 ppb	144.647 ppb	109.178 ppb	86.242 %
Concentration per Run 1	1.003 ppb	0.099 ppb	12.327 ppb	2,229.810 ppb	15.018 ppb	19.673 ppb	145.786 ppb	109.392 ppb	85.201 %
Concentration per Run 2	0.900 ppb	0.108 ppb	12.138 ppb	2,266.786 ppb	14.680 ppb	20.586 ppb	147.161 ppb	110.470 ppb	82.381 %
Concentration per Run 3	0.938 ppb	0.127 ppb	14.093 ppb	2,292.810 ppb	14.731 ppb	19.405 ppb	140.993 ppb	107.671 ppb	91.145 %
Concentration RSD	5.5 %	12.6 %	8.4 %	1.4 %	1.2 %	3.1 %	2.2 %	1.3 %	5.2 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.354 ppb	2.319 ppb	41.760 ppb	0.527 ppb	84.399 %	0.001 ppb	0.101 ppb	90.657 %	0.605 ppb
Concentration per Run 1	0.380 ppb	2.462 ppb	40.634 ppb	0.419 ppb	83.167 %	0.002 ppb	0.101 ppb	90.271 %	0.571 ppb
Concentration per Run 2	0.330 ppb	1.818 ppb	41.879 ppb	0.555 ppb	83.779 %	0.002 ppb	0.091 ppb	87.153 %	0.608 ppb
Concentration per Run 3	0.351 ppb	2.677 ppb	42.765 ppb	0.608 ppb	86.252 %	-0.001 ppb	0.109 ppb	94.547 %	0.638 ppb
Concentration RSD	7.1 %	19.3 %	2.6 %	18.5 %	1.9 %	138.3 %	8.9 %	4.1 %	5.5 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	174.624 ppb	95.379 %	97.295 %	0.128 ppb	0.394 ppb
Concentration per Run 1	170.595 ppb	94.732 %	96.099 %	0.092 ppb	0.399 ppb
Concentration per Run 2	174.898 ppb	94.482 %	93.766 %	0.156 ppb	0.410 ppb
Concentration per Run 3	178.380 ppb	96.924 %	102.020 %	0.136 ppb	0.373 ppb
Concentration RSD	2.2 %	1.4 %	4.4 %	25.5 %	4.8 %

Alpha ICPMSQ Data with SRD

3/5/2024 4:47:09 PM

Analysis index:	26	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	L2411412-02 6020SL	Rack	1		
Analysis started at:	3/5/2024 7:05:25 AM	Vial	17		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	82.540 %	88.812 %	0.033 ppb	29,535.102 ppb	24,929.215 ppb	8.468 ppb	17,372.238 ppb	57,980.240 ppb	90.242 %
Concentration per Run 1	84.542 %	90.331 %	0.036 ppb	29,259.681 ppb	24,528.677 ppb	7.256 ppb	17,416.185 ppb	58,715.599 ppb	91.993 %
Concentration per Run 2	82.687 %	85.773 %	0.028 ppb	30,358.747 ppb	25,977.485 ppb	8.910 ppb	17,345.634 ppb	58,901.492 ppb	90.099 %
Concentration per Run 3	80.392 %	90.331 %	0.035 ppb	28,986.879 ppb	24,281.483 ppb	9.237 ppb	17,354.895 ppb	56,323.630 ppb	88.634 %
Concentration RSD	2.5 %	3.0 %	12.0 %	2.5 %	3.7 %	12.5 %	0.2 %	2.5 %	1.9 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.112 ppb	0.554 ppb	77.933 ppb	4,315.496 ppb	4.310 ppb	2.891 ppb	0.966 ppb	50.069 ppb	87.644 %
Concentration per Run 1	0.063 ppb	0.580 ppb	75.298 ppb	4,361.232 ppb	4.339 ppb	2.999 ppb	0.926 ppb	51.170 ppb	86.406 %
Concentration per Run 2	0.121 ppb	0.595 ppb	82.152 ppb	4,417.782 ppb	4.418 ppb	2.902 ppb	1.021 ppb	50.889 ppb	86.497 %
Concentration per Run 3	0.153 ppb	0.487 ppb	76.349 ppb	4,167.473 ppb	4.173 ppb	2.773 ppb	0.950 ppb	48.148 ppb	90.028 %
Concentration RSD	40.3 %	10.6 %	4.7 %	3.0 %	2.9 %	3.9 %	5.2 %	3.3 %	2.4 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	2.770 ppb	0.280 ppb	387.906 ppb	0.456 ppb	84.883 %	0.007 ppb	0.554 ppb	86.400 %	0.450 ppb
Concentration per Run 1	2.814 ppb	0.129 ppb	384.037 ppb	0.387 ppb	85.834 %	0.008 ppb	0.531 ppb	87.323 %	0.411 ppb
Concentration per Run 2	2.813 ppb	0.391 ppb	392.377 ppb	0.476 ppb	83.483 %	0.005 ppb	0.607 ppb	84.353 %	0.473 ppb
Concentration per Run 3	2.684 ppb	0.320 ppb	387.305 ppb	0.505 ppb	85.332 %	0.007 ppb	0.522 ppb	87.524 %	0.465 ppb
Concentration RSD	2.7 %	48.5 %	1.1 %	13.5 %	1.5 %	23.3 %	8.4 %	2.1 %	7.5 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	348.504 ppb	93.737 %	93.665 %	0.109 ppb	0.078 ppb
Concentration per Run 1	341.469 ppb	93.132 %	94.061 %	0.082 ppb	0.073 ppb
Concentration per Run 2	361.767 ppb	91.827 %	92.594 %	0.127 ppb	0.083 ppb
Concentration per Run 3	342.275 ppb	96.253 %	94.339 %	0.118 ppb	0.077 ppb
Concentration RSD	3.3 %	2.4 %	1.0 %	22.1 %	6.2 %

Alpha ICPMSQ Data with SRD

3/5/2024 4:47:09 PM

Analysis index:	27	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	WG1891871-6d5 6020SL	Rack	1		
Analysis started at:	3/5/2024 7:10:02 AM	Vial	7		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	82.535 %	90.262 %	0.336 ppb	5,482.942 ppb	650.483 ppb	718.207 ppb	469.351 ppb	1,303.226 ppb	83.058 %
Concentration per Run 1	82.665 %	91.782 %	0.319 ppb	5,497.017 ppb	633.986 ppb	706.164 ppb	504.433 ppb	1,340.839 ppb	82.654 %
Concentration per Run 2	82.744 %	91.574 %	0.357 ppb	5,412.171 ppb	657.890 ppb	722.928 ppb	446.277 ppb	1,309.140 ppb	83.332 %
Concentration per Run 3	82.195 %	87.431 %	0.331 ppb	5,539.638 ppb	659.571 ppb	725.529 ppb	457.344 ppb	1,259.699 ppb	83.187 %
Concentration RSD	0.4 %	2.7 %	5.9 %	1.2 %	2.2 %	1.5 %	6.6 %	3.1 %	0.4 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.241 ppb	0.042 ppb	2.686 ppb	484.900 ppb	3.160 ppb	4.281 ppb	31.256 ppb	23.785 ppb	85.374 %
Concentration per Run 1	0.274 ppb	0.036 ppb	2.636 ppb	498.099 ppb	3.209 ppb	4.632 ppb	32.389 ppb	24.781 ppb	82.985 %
Concentration per Run 2	0.221 ppb	0.054 ppb	2.322 ppb	480.919 ppb	3.197 ppb	4.185 ppb	31.076 ppb	23.168 ppb	85.696 %
Concentration per Run 3	0.229 ppb	0.037 ppb	3.100 ppb	475.682 ppb	3.075 ppb	4.026 ppb	30.304 ppb	23.407 ppb	87.441 %
Concentration RSD	11.8 %	25.1 %	14.6 %	2.4 %	2.4 %	7.3 %	3.4 %	3.7 %	2.6 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.097 ppb	0.572 ppb	8.310 ppb	0.176 ppb	86.696 %	0.001 ppb	0.026 ppb	88.131 %	0.214 ppb
Concentration per Run 1	0.069 ppb	0.320 ppb	8.492 ppb	0.095 ppb	87.444 %	0.002 ppb	0.029 ppb	87.273 %	0.209 ppb
Concentration per Run 2	0.110 ppb	0.625 ppb	8.229 ppb	0.213 ppb	86.581 %	0.001 ppb	0.021 ppb	87.343 %	0.201 ppb
Concentration per Run 3	0.112 ppb	0.769 ppb	8.209 ppb	0.220 ppb	86.063 %	0.001 ppb	0.028 ppb	89.776 %	0.232 ppb
Concentration RSD	25.0 %	40.1 %	1.9 %	40.0 %	0.8 %	58.7 %	16.8 %	1.6 %	7.5 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	36.897 ppb	93.295 %	94.148 %	0.050 ppb	0.134 ppb
Concentration per Run 1	37.978 ppb	94.041 %	93.968 %	0.034 ppb	0.140 ppb
Concentration per Run 2	36.537 ppb	93.599 %	94.960 %	0.060 ppb	0.135 ppb
Concentration per Run 3	36.176 ppb	92.245 %	93.516 %	0.056 ppb	0.128 ppb
Concentration RSD	2.6 %	1.0 %	0.8 %	27.7 %	4.5 %

Alpha ICPMSQ Data with SRD

3/5/2024 4:47:09 PM

Analysis index:	28	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	CCV	Rack	0		
Analysis started at:	3/5/2024 7:14:40 AM	Vial	9		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	80.479 %	88.260 %	61.586 ppb	5,955.188 ppb	6,125.511 ppb	65.404 ppb	6,196.916 ppb	6,138.487 ppb	84.331 %
Concentration per Run 1	81.610 %	84.323 %	61.680 ppb	6,248.509 ppb	6,401.098 ppb	68.229 ppb	6,437.217 ppb	6,426.553 ppb	85.485 %
Concentration per Run 2	80.661 %	88.260 %	61.645 ppb	5,775.175 ppb	5,854.137 ppb	60.922 ppb	6,042.793 ppb	6,036.957 ppb	84.570 %
Concentration per Run 3	79.166 %	92.196 %	61.435 ppb	5,841.880 ppb	6,121.297 ppb	67.062 ppb	6,110.737 ppb	5,951.951 ppb	82.936 %
Recovery Percentage 1			102.644 %	99.253 %	102.092 %	109.007 %	103.282 %	102.308 %	
Concentration RSD	1.5 %	4.5 %	0.2 %	4.3 %	4.5 %	6.0 %	3.4 %	4.1 %	1.5 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	60.124 ppb	61.377 ppb	62.946 ppb	5,970.865 ppb	60.648 ppb	60.914 ppb	60.682 ppb	65.692 ppb	88.707 %
Concentration per Run 1	64.447 ppb	66.160 ppb	67.220 ppb	6,489.065 ppb	66.230 ppb	65.818 ppb	66.164 ppb	70.971 ppb	79.752 %
Concentration per Run 2	57.916 ppb	58.759 ppb	60.488 ppb	5,706.910 ppb	58.334 ppb	59.954 ppb	58.528 ppb	63.200 ppb	90.848 %
Concentration per Run 3	58.009 ppb	59.212 ppb	61.130 ppb	5,716.619 ppb	57.380 ppb	56.970 ppb	57.355 ppb	62.904 ppb	95.521 %
Recovery Percentage 1	100.206 %	102.295 %	104.910 %	99.514 %	101.080 %	101.523 %	101.137 %	109.486 %	
Concentration RSD	6.2 %	6.8 %	5.9 %	7.5 %	8.0 %	7.4 %	7.9 %	7.0 %	9.1 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	61.418 ppb	64.685 ppb	63.121 ppb	60.424 ppb	84.109 %	63.476 ppb	64.140 ppb	85.309 %	63.703 ppb
Concentration per Run 1	67.197 ppb	69.207 ppb	65.320 ppb	61.915 ppb	82.915 %	64.768 ppb	65.539 ppb	82.075 %	64.514 ppb
Concentration per Run 2	58.578 ppb	60.912 ppb	60.439 ppb	59.411 ppb	84.203 %	63.779 ppb	64.046 ppb	83.579 %	64.113 ppb
Concentration per Run 3	58.480 ppb	63.935 ppb	63.603 ppb	59.945 ppb	85.209 %	61.880 ppb	62.835 ppb	90.273 %	62.483 ppb
Recovery Percentage 1	102.364 %	107.808 %	105.201 %	100.706 %		105.793 %	106.900 %		106.172 %
Concentration RSD	8.1 %	6.5 %	3.9 %	2.2 %	1.4 %	2.3 %	2.1 %	5.1 %	1.7 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	64.532 ppb	90.134 %	92.665 %	62.537 ppb	63.187 ppb
Concentration per Run 1	64.727 ppb	87.594 %	89.857 %	62.323 ppb	64.432 ppb
Concentration per Run 2	63.565 ppb	89.082 %	91.350 %	62.840 ppb	63.749 ppb
Concentration per Run 3	65.305 ppb	93.726 %	96.788 %	62.448 ppb	61.380 ppb
Recovery Percentage 1	107.554 %			104.228 %	105.312 %
Concentration RSD	1.4 %	3.5 %	3.9 %	0.4 %	2.5 %

Alpha ICPMSQ Data with SRD

3/5/2024 4:47:09 PM

Analysis index:	29	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	CCB	Rack	0		
Analysis started at:	3/5/2024 7:19:22 AM	Vial	10		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	80.601 %	87.016 %	0.013 ppb	1.077 ppb	-0.513 ppb	-0.399 ppb	1.709 ppb	0.196 ppb	72.286 %
Concentration per Run 1	81.157 %	88.674 %	0.011 ppb	1.805 ppb	-0.356 ppb	-0.287 ppb	5.194 ppb	-5.362 ppb	72.818 %
Concentration per Run 2	81.386 %	87.845 %	0.013 ppb	0.758 ppb	-0.356 ppb	-0.464 ppb	0.950 ppb	-2.591 ppb	72.462 %
Concentration per Run 3	79.261 %	84.530 %	0.014 ppb	0.667 ppb	-0.826 ppb	-0.447 ppb	-1.018 ppb	8.543 ppb	71.577 %
Recovery Percentage 1			2.532 %	1.077 %	-0.732 %	-3.993 %	1.709 %	0.196 %	
Concentration RSD	1.4 %	2.5 %	11.7 %	58.7 %	52.9 %	24.6 %	185.8 %	3,749.0 %	0.9 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.007 ppb	-0.002 ppb	-0.013 ppb	11.211 ppb	0.000 ppb	-0.011 ppb	0.013 ppb	0.108 ppb	84.788 %
Concentration per Run 1	-0.007 ppb	0.004 ppb	-0.009 ppb	11.298 ppb	0.000 ppb	-0.033 ppb	0.033 ppb	0.150 ppb	86.765 %
Concentration per Run 2	-0.015 ppb	-0.007 ppb	-0.023 ppb	11.303 ppb	0.000 ppb	0.000 ppb	-0.006 ppb	0.097 ppb	88.973 %
Concentration per Run 3	0.003 ppb	-0.004 ppb	-0.006 ppb	11.033 ppb	0.002 ppb	0.000 ppb	0.011 ppb	0.078 ppb	78.628 %
Recovery Percentage 1	-0.131 %	-0.243 %	-1.273 %	22.423 %	0.087 %	-0.559 %	1.271 %	2.162 %	
Concentration RSD	136.8 %	226.2 %	71.8 %	1.4 %	305.9 %	165.8 %	152.8 %	34.9 %	6.4 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.115 ppb	0.385 ppb	-0.004 ppb	0.887 ppb	85.206 %	0.002 ppb	0.009 ppb	86.414 %	0.169 ppb
Concentration per Run 1	0.049 ppb	0.342 ppb	-0.009 ppb	0.800 ppb	86.990 %	0.001 ppb	0.009 ppb	88.317 %	0.120 ppb
Concentration per Run 2	0.132 ppb	0.185 ppb	-0.001 ppb	0.823 ppb	90.599 %	0.002 ppb	0.010 ppb	94.477 %	0.154 ppb
Concentration per Run 3	0.162 ppb	0.629 ppb	-0.003 ppb	1.038 ppb	78.028 %	0.002 ppb	0.007 ppb	76.449 %	0.232 ppb
Recovery Percentage 1	22.901 %	7.699 %	-0.041 %	44.342 %		0.418 %	4.376 %		4.222 %
Concentration RSD	51.4 %	58.5 %	98.4 %	14.8 %	7.6 %	29.3 %	14.0 %	10.6 %	34.0 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	0.007 ppb	88.333 %	90.569 %	0.499 ppb	0.049 ppb
Concentration per Run 1	0.003 ppb	90.419 %	91.064 %	0.458 ppb	0.050 ppb
Concentration per Run 2	0.008 ppb	95.138 %	99.947 %	0.511 ppb	0.045 ppb
Concentration per Run 3	0.011 ppb	79.441 %	80.696 %	0.529 ppb	0.051 ppb
Recovery Percentage 1	1.426 %			49.945 %	4.879 %
Concentration RSD	57.0 %	9.1 %	10.6 %	7.4 %	6.8 %

Alpha ICPMSQ Data with SRD

3/5/2024 4:47:09 PM

Analysis index:	30	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	L2411412-03 6020SL	Rack	1		
Analysis started at:	3/5/2024 7:25:22 AM	Vial	18		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	80.112 %	84.116 %	0.007 ppb	30,391.125 ppb	3,334.132 ppb	2.353 ppb	3,383.804 ppb	4,664.951 ppb	91.725 %
Concentration per Run 1	80.961 %	82.873 %	0.004 ppb	30,665.595 ppb	3,444.162 ppb	3.004 ppb	3,445.700 ppb	4,828.869 ppb	92.817 %
Concentration per Run 2	80.217 %	78.108 %	0.004 ppb	31,742.919 ppb	3,474.235 ppb	1.896 ppb	3,435.789 ppb	4,677.754 ppb	91.141 %
Concentration per Run 3	79.157 %	91.367 %	0.013 ppb	28,764.862 ppb	3,083.999 ppb	2.159 ppb	3,269.922 ppb	4,488.230 ppb	91.216 %
Concentration RSD	1.1 %	8.0 %	71.8 %	5.0 %	6.5 %	24.6 %	2.9 %	3.7 %	1.0 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.007 ppb	0.035 ppb	29.444 ppb	5,899.933 ppb	2.490 ppb	46.949 ppb	0.195 ppb	2.164 ppb	85.373 %
Concentration per Run 1	0.001 ppb	0.018 ppb	30.204 ppb	5,801.106 ppb	2.534 ppb	47.314 ppb	0.220 ppb	2.109 ppb	85.827 %
Concentration per Run 2	-0.015 ppb	0.051 ppb	29.272 ppb	5,971.357 ppb	2.487 ppb	46.784 ppb	0.205 ppb	2.139 ppb	85.541 %
Concentration per Run 3	-0.007 ppb	0.037 ppb	28.856 ppb	5,927.335 ppb	2.449 ppb	46.747 ppb	0.159 ppb	2.243 ppb	84.751 %
Concentration RSD	118.8 %	47.0 %	2.3 %	1.5 %	1.7 %	0.7 %	16.3 %	3.3 %	0.7 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.160 ppb	0.087 ppb	96.991 ppb	0.312 ppb	84.131 %	0.000 ppb	0.024 ppb	86.468 %	0.215 ppb
Concentration per Run 1	0.158 ppb	0.079 ppb	97.632 ppb	0.304 ppb	84.860 %	0.000 ppb	0.021 ppb	88.129 %	0.229 ppb
Concentration per Run 2	0.146 ppb	0.134 ppb	96.226 ppb	0.327 ppb	82.634 %	-0.001 ppb	0.029 ppb	84.007 %	0.199 ppb
Concentration per Run 3	0.176 ppb	0.048 ppb	97.114 ppb	0.305 ppb	84.901 %	0.001 ppb	0.022 ppb	87.267 %	0.218 ppb
Concentration RSD	9.4 %	49.7 %	0.7 %	4.2 %	1.5 %	459.0 %	17.0 %	2.5 %	6.9 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	77.029 ppb	91.646 %	91.707 %	0.230 ppb	0.032 ppb
Concentration per Run 1	76.403 ppb	93.009 %	93.518 %	0.197 ppb	0.032 ppb
Concentration per Run 2	78.891 ppb	89.223 %	90.568 %	0.260 ppb	0.031 ppb
Concentration per Run 3	75.794 ppb	92.706 %	91.035 %	0.234 ppb	0.033 ppb
Concentration RSD	2.1 %	2.3 %	1.7 %	13.9 %	2.6 %

Alpha ICPMSQ Data with SRD

3/5/2024 4:47:09 PM

Analysis index:	31	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	L2411412-04 6020SL	Rack	1		
Analysis started at:	3/5/2024 7:29:59 AM	Vial	19		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	79.912 %	85.359 %	0.009 ppb	2,710.274 ppb	3,467.881 ppb	1.979 ppb	5,709.481 ppb	11,080.693 ppb	81.964 %
Concentration per Run 1	79.592 %	90.331 %	0.011 ppb	2,580.834 ppb	3,301.015 ppb	1.551 ppb	5,614.127 ppb	10,973.883 ppb	82.084 %
Concentration per Run 2	80.086 %	81.215 %	0.003 ppb	2,722.491 ppb	3,495.494 ppb	1.633 ppb	5,534.003 ppb	10,576.593 ppb	81.448 %
Concentration per Run 3	80.059 %	84.530 %	0.014 ppb	2,827.496 ppb	3,607.133 ppb	2.752 ppb	5,980.314 ppb	11,691.604 ppb	82.361 %
Concentration RSD	0.3 %	5.4 %	59.7 %	4.6 %	4.5 %	33.9 %	4.2 %	5.1 %	0.6 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.041 ppb	0.068 ppb	37.938 ppb	390.338 ppb	0.681 ppb	6.108 ppb	0.779 ppb	3.410 ppb	86.566 %
Concentration per Run 1	0.063 ppb	0.085 ppb	36.284 ppb	395.584 ppb	0.675 ppb	6.056 ppb	0.713 ppb	3.293 ppb	86.451 %
Concentration per Run 2	0.034 ppb	0.044 ppb	36.649 ppb	375.589 ppb	0.632 ppb	6.027 ppb	0.795 ppb	3.413 ppb	86.100 %
Concentration per Run 3	0.025 ppb	0.074 ppb	40.882 ppb	399.840 ppb	0.736 ppb	6.242 ppb	0.829 ppb	3.525 ppb	87.148 %
Concentration RSD	49.1 %	30.8 %	6.7 %	3.3 %	7.6 %	1.9 %	7.7 %	3.4 %	0.6 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.832 ppb	0.267 ppb	29.847 ppb	1.008 ppb	84.840 %	-0.001 ppb	0.020 ppb	87.063 %	0.326 ppb
Concentration per Run 1	0.821 ppb	0.232 ppb	29.853 ppb	1.033 ppb	85.069 %	-0.001 ppb	0.023 ppb	89.166 %	0.310 ppb
Concentration per Run 2	0.848 ppb	0.387 ppb	28.327 ppb	0.925 ppb	83.893 %	0.000 ppb	0.025 ppb	82.674 %	0.332 ppb
Concentration per Run 3	0.826 ppb	0.183 ppb	31.359 ppb	1.066 ppb	85.558 %	-0.001 ppb	0.013 ppb	89.350 %	0.336 ppb
Concentration RSD	1.7 %	39.7 %	5.1 %	7.3 %	1.0 %	65.7 %	31.7 %	4.4 %	4.3 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	36.365 ppb	91.972 %	93.410 %	0.153 ppb	0.042 ppb
Concentration per Run 1	36.264 ppb	91.916 %	92.713 %	0.123 ppb	0.041 ppb
Concentration per Run 2	36.232 ppb	91.041 %	90.369 %	0.171 ppb	0.042 ppb
Concentration per Run 3	36.599 ppb	92.960 %	97.149 %	0.166 ppb	0.042 ppb
Concentration RSD	0.6 %	1.0 %	3.7 %	17.1 %	1.1 %

Alpha ICPMSQ Data with SRD

3/5/2024 4:47:09 PM

Analysis index:	32	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	L2411412-05 6020SL	Rack	1		
Analysis started at:	3/5/2024 7:34:36 AM	Vial	20		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	83.110 %	89.710 %	0.010 ppb	3,489.918 ppb	2,433.117 ppb	27.681 ppb	4,841.106 ppb	6,154.181 ppb	85.859 %
Concentration per Run 1	84.473 %	93.232 %	0.008 ppb	3,438.290 ppb	2,439.200 ppb	29.050 ppb	4,836.578 ppb	6,328.439 ppb	85.735 %
Concentration per Run 2	83.092 %	90.746 %	0.012 ppb	3,378.989 ppb	2,331.598 ppb	24.845 ppb	4,493.172 ppb	5,830.729 ppb	86.151 %
Concentration per Run 3	81.764 %	85.152 %	0.011 ppb	3,652.476 ppb	2,528.554 ppb	29.149 ppb	5,193.567 ppb	6,303.376 ppb	85.692 %
Concentration RSD	1.6 %	4.6 %	15.9 %	4.1 %	4.1 %	8.9 %	7.2 %	4.6 %	0.3 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.085 ppb	0.159 ppb	16.242 ppb	315.163 ppb	0.971 ppb	1.418 ppb	1.289 ppb	4.863 ppb	85.750 %
Concentration per Run 1	0.120 ppb	0.188 ppb	16.654 ppb	314.107 ppb	1.064 ppb	1.603 ppb	1.271 ppb	4.994 ppb	83.891 %
Concentration per Run 2	0.072 ppb	0.145 ppb	15.535 ppb	313.988 ppb	0.925 ppb	1.373 ppb	1.222 ppb	4.591 ppb	85.072 %
Concentration per Run 3	0.064 ppb	0.144 ppb	16.537 ppb	317.394 ppb	0.925 ppb	1.277 ppb	1.374 ppb	5.005 ppb	88.288 %
Concentration RSD	35.2 %	15.9 %	3.8 %	0.6 %	8.3 %	11.8 %	6.0 %	4.8 %	2.7 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.081 ppb	0.082 ppb	23.691 ppb	0.228 ppb	86.068 %	0.001 ppb	0.059 ppb	87.117 %	0.217 ppb
Concentration per Run 1	0.062 ppb	0.084 ppb	24.649 ppb	0.196 ppb	85.517 %	0.002 ppb	0.071 ppb	87.110 %	0.204 ppb
Concentration per Run 2	0.081 ppb	0.023 ppb	22.626 ppb	0.275 ppb	85.549 %	-0.001 ppb	0.060 ppb	82.841 %	0.223 ppb
Concentration per Run 3	0.101 ppb	0.138 ppb	23.798 ppb	0.213 ppb	87.139 %	0.001 ppb	0.047 ppb	91.399 %	0.223 ppb
Concentration RSD	23.9 %	70.1 %	4.3 %	18.1 %	1.1 %	171.5 %	20.4 %	4.9 %	5.1 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	60.440 ppb	92.930 %	91.764 %	0.084 ppb	0.088 ppb
Concentration per Run 1	61.302 ppb	93.567 %	90.374 %	0.068 ppb	0.093 ppb
Concentration per Run 2	59.758 ppb	90.413 %	87.744 %	0.093 ppb	0.085 ppb
Concentration per Run 3	60.260 ppb	94.810 %	97.173 %	0.090 ppb	0.084 ppb
Concentration RSD	1.3 %	2.4 %	5.3 %	16.2 %	5.8 %

Alpha ICPMSQ Data with SRD

3/5/2024 4:47:09 PM

Analysis index:	33	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	L2411412-06 6020SL	Rack	1		
Analysis started at:	3/5/2024 7:39:14 AM	Vial	21		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	82.407 %	87.500 %	0.009 ppb	14,687.731 ppb	9,256.447 ppb	2.055 ppb	9,325.413 ppb	12,640.239 ppb	84.664 %
Concentration per Run 1	83.375 %	91.782 %	0.009 ppb	14,551.994 ppb	9,158.643 ppb	2.239 ppb	9,286.519 ppb	12,687.731 ppb	84.570 %
Concentration per Run 2	82.006 %	82.666 %	0.007 ppb	14,938.584 ppb	9,352.686 ppb	2.195 ppb	9,395.973 ppb	12,496.985 ppb	84.161 %
Concentration per Run 3	81.838 %	88.052 %	0.011 ppb	14,572.616 ppb	9,258.011 ppb	1.731 ppb	9,293.747 ppb	12,736.001 ppb	85.260 %
Concentration RSD	1.0 %	5.2 %	23.4 %	1.5 %	1.0 %	13.7 %	0.7 %	1.0 %	0.7 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.075 ppb	0.074 ppb	105.984 ppb	1,824.405 ppb	1.981 ppb	13.054 ppb	3.760 ppb	40.422 ppb	86.315 %
Concentration per Run 1	0.072 ppb	0.065 ppb	107.382 ppb	1,869.602 ppb	1.941 ppb	13.327 ppb	3.789 ppb	41.087 ppb	84.582 %
Concentration per Run 2	0.085 ppb	0.075 ppb	109.576 ppb	1,875.624 ppb	2.017 ppb	13.205 ppb	3.637 ppb	41.082 ppb	83.318 %
Concentration per Run 3	0.069 ppb	0.082 ppb	100.994 ppb	1,727.989 ppb	1.986 ppb	12.630 ppb	3.855 ppb	39.096 ppb	91.045 %
Concentration RSD	11.2 %	11.1 %	4.2 %	4.6 %	1.9 %	2.9 %	3.0 %	2.8 %	4.8 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.473 ppb	0.668 ppb	82.433 ppb	0.774 ppb	83.039 %	0.000 ppb	0.089 ppb	83.428 %	0.236 ppb
Concentration per Run 1	0.615 ppb	0.777 ppb	86.044 ppb	0.724 ppb	80.737 %	0.000 ppb	0.084 ppb	81.940 %	0.234 ppb
Concentration per Run 2	0.316 ppb	0.850 ppb	80.163 ppb	0.779 ppb	81.642 %	0.002 ppb	0.090 ppb	81.287 %	0.233 ppb
Concentration per Run 3	0.490 ppb	0.377 ppb	81.091 ppb	0.818 ppb	86.738 %	-0.001 ppb	0.094 ppb	87.056 %	0.242 ppb
Concentration RSD	31.7 %	38.2 %	3.8 %	6.1 %	3.9 %	469.4 %	5.9 %	3.8 %	1.9 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	92.745 ppb	88.955 %	89.367 %	0.147 ppb	0.060 ppb
Concentration per Run 1	97.188 ppb	87.691 %	87.767 %	0.135 ppb	0.065 ppb
Concentration per Run 2	89.901 ppb	86.851 %	85.527 %	0.155 ppb	0.059 ppb
Concentration per Run 3	91.145 ppb	92.325 %	94.808 %	0.150 ppb	0.056 ppb
Concentration RSD	4.2 %	3.3 %	5.4 %	7.3 %	7.6 %

Alpha ICPMSQ Data with SRD

3/5/2024 4:47:09 PM

Analysis index:	34	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	L2411412-07 6020SL	Rack	1		
Analysis started at:	3/5/2024 7:43:52 AM	Vial	22		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	78.664 %	83.011 %	0.011 ppb	17,384.240 ppb	6,238.337 ppb	4.260 ppb	5,687.477 ppb	26,739.344 ppb	89.438 %
Concentration per Run 1	79.820 %	83.494 %	0.010 ppb	17,610.811 ppb	6,303.226 ppb	3.928 ppb	5,842.263 ppb	27,250.225 ppb	89.417 %
Concentration per Run 2	78.821 %	81.008 %	0.011 ppb	16,863.291 ppb	6,088.456 ppb	4.037 ppb	5,285.688 ppb	25,294.061 ppb	90.529 %
Concentration per Run 3	77.352 %	84.530 %	0.012 ppb	17,678.618 ppb	6,323.327 ppb	4.816 ppb	5,934.481 ppb	27,673.745 ppb	88.367 %
Concentration RSD	1.6 %	2.2 %	7.5 %	2.6 %	2.1 %	11.4 %	6.2 %	4.7 %	1.2 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.034 ppb	0.063 ppb	200.681 ppb	13,153.899 ppb	5.742 ppb	30.049 ppb	0.751 ppb	6.228 ppb	84.680 %
Concentration per Run 1	0.026 ppb	0.055 ppb	196.573 ppb	13,019.983 ppb	5.750 ppb	30.038 ppb	0.828 ppb	6.331 ppb	84.973 %
Concentration per Run 2	0.052 ppb	0.083 ppb	198.285 ppb	13,118.914 ppb	5.682 ppb	30.010 ppb	0.701 ppb	6.064 ppb	84.283 %
Concentration per Run 3	0.026 ppb	0.050 ppb	207.186 ppb	13,322.799 ppb	5.795 ppb	30.098 ppb	0.723 ppb	6.290 ppb	84.783 %
Concentration RSD	43.0 %	28.8 %	2.8 %	1.2 %	1.0 %	0.2 %	9.0 %	2.3 %	0.4 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.283 ppb	0.258 ppb	142.298 ppb	6.747 ppb	82.450 %	0.000 ppb	0.243 ppb	84.785 %	0.211 ppb
Concentration per Run 1	0.297 ppb	0.249 ppb	141.691 ppb	6.649 ppb	82.643 %	0.000 ppb	0.234 ppb	83.532 %	0.192 ppb
Concentration per Run 2	0.260 ppb	0.190 ppb	138.810 ppb	6.521 ppb	81.931 %	0.001 ppb	0.273 ppb	83.112 %	0.231 ppb
Concentration per Run 3	0.293 ppb	0.335 ppb	146.393 ppb	7.069 ppb	82.777 %	0.000 ppb	0.222 ppb	87.712 %	0.211 ppb
Concentration RSD	7.1 %	28.4 %	2.7 %	4.3 %	0.6 %	185.9 %	10.8 %	3.0 %	9.2 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	84.519 ppb	90.853 %	90.217 %	0.086 ppb	0.048 ppb
Concentration per Run 1	85.632 ppb	90.887 %	91.008 %	0.069 ppb	0.049 ppb
Concentration per Run 2	83.564 ppb	91.720 %	87.728 %	0.096 ppb	0.049 ppb
Concentration per Run 3	84.361 ppb	89.950 %	91.915 %	0.092 ppb	0.045 ppb
Concentration RSD	1.2 %	1.0 %	2.4 %	16.5 %	4.4 %

Alpha ICPMSQ Data with SRD

3/5/2024 4:47:09 PM

Analysis index:	35	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	L2410731-03 6020SL	Rack	1		
Analysis started at:	3/5/2024 7:48:30 AM	Vial	9		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	80.007 %	81.768 %	0.011 ppb	267,983.608 ppb	25,978.064 ppb	2.703 ppb	4,332.141 ppb	139,470.184 ppb	91.027 %
Concentration per Run 1	81.444 %	83.080 %	0.010 ppb	263,622.326 ppb	25,180.370 ppb	2.935 ppb	4,306.855 ppb	138,401.524 ppb	91.383 %
Concentration per Run 2	79.758 %	84.530 %	0.012 ppb	263,350.579 ppb	25,916.642 ppb	2.790 ppb	4,288.286 ppb	139,861.394 ppb	91.259 %
Concentration per Run 3	78.820 %	77.693 %	0.011 ppb	276,977.919 ppb	26,837.181 ppb	2.385 ppb	4,401.283 ppb	140,147.633 ppb	90.438 %
Concentration RSD	1.7 %	4.4 %	9.1 %	2.9 %	3.2 %	10.5 %	1.4 %	0.7 %	0.6 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.022 ppb	0.094 ppb	1,476.944 ppb	7,797.451 ppb	1.628 ppb	0.771 ppb	0.386 ppb	5.128 ppb	82.341 %
Concentration per Run 1	0.030 ppb	0.090 ppb	1,480.962 ppb	8,034.440 ppb	1.611 ppb	0.849 ppb	0.403 ppb	5.429 ppb	76.609 %
Concentration per Run 2	-0.007 ppb	0.084 ppb	1,474.750 ppb	7,731.833 ppb	1.598 ppb	0.733 ppb	0.338 ppb	5.030 ppb	84.173 %
Concentration per Run 3	0.043 ppb	0.107 ppb	1,475.119 ppb	7,626.080 ppb	1.674 ppb	0.730 ppb	0.416 ppb	4.927 ppb	86.242 %
Concentration RSD	116.7 %	12.5 %	0.2 %	2.7 %	2.5 %	8.8 %	10.9 %	5.2 %	6.2 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	1.442 ppb	0.145 ppb	544.844 ppb	0.472 ppb	78.961 %	0.002 ppb	0.039 ppb	81.329 %	0.375 ppb
Concentration per Run 1	1.426 ppb	0.107 ppb	549.703 ppb	0.434 ppb	74.938 %	0.002 ppb	0.043 ppb	74.907 %	0.407 ppb
Concentration per Run 2	1.552 ppb	0.142 ppb	548.802 ppb	0.533 ppb	80.214 %	0.003 ppb	0.035 ppb	82.644 %	0.360 ppb
Concentration per Run 3	1.347 ppb	0.186 ppb	536.025 ppb	0.448 ppb	81.731 %	0.002 ppb	0.040 ppb	86.436 %	0.359 ppb
Concentration RSD	7.2 %	27.5 %	1.4 %	11.4 %	4.5 %	44.4 %	10.2 %	7.2 %	7.3 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	207.151 ppb	89.734 %	90.715 %	0.033 ppb	0.072 ppb
Concentration per Run 1	214.253 ppb	84.479 %	83.195 %	0.023 ppb	0.084 ppb
Concentration per Run 2	203.631 ppb	92.306 %	94.788 %	0.037 ppb	0.065 ppb
Concentration per Run 3	203.571 ppb	92.417 %	94.161 %	0.039 ppb	0.065 ppb
Concentration RSD	3.0 %	5.1 %	7.2 %	25.5 %	15.3 %

Alpha ICPMSQ Data with SRD

3/5/2024 4:47:09 PM

Analysis index:	36	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	L2410731-04 6020SL	Rack	1		
Analysis started at:	3/5/2024 7:53:09 AM	Vial	10		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	82.313 %	83.218 %	0.009 ppb	216,766.078 ppb	13,593.315 ppb	4.037 ppb	5,891.631 ppb	82,635.395 ppb	92.858 %
Concentration per Run 1	83.678 %	81.215 %	0.004 ppb	221,191.092 ppb	13,894.323 ppb	4.661 ppb	5,888.369 ppb	84,600.866 ppb	93.807 %
Concentration per Run 2	82.726 %	92.403 %	0.012 ppb	198,864.045 ppb	12,595.336 ppb	3.786 ppb	5,599.053 ppb	77,612.816 ppb	93.028 %
Concentration per Run 3	80.534 %	76.036 %	0.011 ppb	230,243.097 ppb	14,290.287 ppb	3.664 ppb	6,187.472 ppb	85,692.504 ppb	91.738 %
Concentration RSD	2.0 %	10.1 %	46.5 %	7.5 %	6.5 %	13.5 %	5.0 %	5.3 %	1.1 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.086 ppb	0.130 ppb	1,080.648 ppb	145.066 ppb	0.343 ppb	0.707 ppb	0.981 ppb	1.639 ppb	88.518 %
Concentration per Run 1	0.091 ppb	0.158 ppb	1,080.820 ppb	141.961 ppb	0.370 ppb	0.698 ppb	1.082 ppb	1.697 ppb	85.995 %
Concentration per Run 2	0.083 ppb	0.125 ppb	1,052.313 ppb	150.560 ppb	0.344 ppb	0.637 ppb	0.927 ppb	1.549 ppb	90.379 %
Concentration per Run 3	0.083 ppb	0.107 ppb	1,108.812 ppb	142.677 ppb	0.315 ppb	0.786 ppb	0.933 ppb	1.669 ppb	89.181 %
Concentration RSD	5.7 %	19.9 %	2.6 %	3.3 %	7.9 %	10.6 %	8.9 %	4.8 %	2.6 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	2.606 ppb	0.112 ppb	487.579 ppb	5.325 ppb	83.519 %	0.003 ppb	0.003 ppb	87.548 %	0.228 ppb
Concentration per Run 1	2.530 ppb	0.074 ppb	490.796 ppb	5.299 ppb	82.183 %	0.003 ppb	0.004 ppb	85.347 %	0.213 ppb
Concentration per Run 2	2.653 ppb	0.127 ppb	482.079 ppb	5.116 ppb	84.125 %	0.002 ppb	0.004 ppb	89.057 %	0.234 ppb
Concentration per Run 3	2.635 ppb	0.134 ppb	489.861 ppb	5.559 ppb	84.248 %	0.003 ppb	0.001 ppb	88.240 %	0.235 ppb
Concentration RSD	2.5 %	29.7 %	1.0 %	4.2 %	1.4 %	7.7 %	49.9 %	2.2 %	5.5 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	136.234 ppb	94.070 %	94.492 %	0.023 ppb	0.099 ppb
Concentration per Run 1	139.478 ppb	93.047 %	94.679 %	0.012 ppb	0.098 ppb
Concentration per Run 2	132.369 ppb	94.435 %	94.411 %	0.030 ppb	0.096 ppb
Concentration per Run 3	136.855 ppb	94.728 %	94.385 %	0.027 ppb	0.101 ppb
Concentration RSD	2.6 %	1.0 %	0.2 %	42.0 %	2.5 %

Alpha ICPMSQ Data with SRD

3/5/2024 4:47:09 PM

Analysis index:	37	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	L2410731-05 6020SL	Rack	1		
Analysis started at:	3/5/2024 7:57:49 AM	Vial	11		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	87.821 %	91.160 %	0.010 ppb	224,221.696 ppb	621.924 ppb	153.184 ppb	6,308.985 ppb	57,850.438 ppb	95.378 %
Concentration per Run 1	88.696 %	94.268 %	0.005 ppb	214,999.047 ppb	601.905 ppb	147.337 ppb	5,993.663 ppb	55,070.916 ppb	96.630 %
Concentration per Run 2	87.389 %	85.359 %	0.009 ppb	237,026.058 ppb	645.426 ppb	161.796 ppb	6,686.976 ppb	61,154.184 ppb	94.159 %
Concentration per Run 3	87.378 %	93.854 %	0.017 ppb	220,639.984 ppb	618.443 ppb	150.417 ppb	6,246.315 ppb	57,326.213 ppb	95.345 %
Concentration RSD	0.9 %	5.5 %	58.0 %	5.1 %	3.5 %	5.0 %	5.6 %	5.3 %	1.3 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	3.396 ppb	1.001 ppb	4.479 ppb	18.119 ppb	0.053 ppb	0.843 ppb	8.674 ppb	2.017 ppb	95.175 %
Concentration per Run 1	3.422 ppb	1.015 ppb	4.483 ppb	20.477 ppb	0.054 ppb	0.807 ppb	8.860 ppb	2.087 ppb	92.641 %
Concentration per Run 2	3.506 ppb	1.030 ppb	4.286 ppb	17.571 ppb	0.046 ppb	0.849 ppb	8.436 ppb	1.985 ppb	96.790 %
Concentration per Run 3	3.258 ppb	0.960 ppb	4.669 ppb	16.310 ppb	0.059 ppb	0.874 ppb	8.726 ppb	1.979 ppb	96.094 %
Concentration RSD	3.7 %	3.7 %	4.3 %	11.8 %	12.7 %	4.0 %	2.5 %	3.0 %	2.3 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	1.291 ppb	0.183 ppb	681.711 ppb	4.683 ppb	89.992 %	0.009 ppb	0.013 ppb	93.108 %	1.130 ppb
Concentration per Run 1	1.424 ppb	0.176 ppb	673.114 ppb	4.633 ppb	89.894 %	0.011 ppb	0.011 ppb	92.241 %	1.119 ppb
Concentration per Run 2	1.325 ppb	0.206 ppb	688.565 ppb	4.630 ppb	89.403 %	0.006 ppb	0.012 ppb	92.700 %	1.137 ppb
Concentration per Run 3	1.124 ppb	0.167 ppb	683.453 ppb	4.784 ppb	90.679 %	0.011 ppb	0.016 ppb	94.382 %	1.134 ppb
Concentration RSD	11.8 %	11.1 %	1.2 %	1.9 %	0.7 %	29.3 %	18.4 %	1.2 %	0.8 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	55.092 ppb	96.583 %	97.768 %	0.020 ppb	0.194 ppb
Concentration per Run 1	55.576 ppb	95.168 %	96.627 %	0.011 ppb	0.195 ppb
Concentration per Run 2	54.674 ppb	97.413 %	99.165 %	0.023 ppb	0.192 ppb
Concentration per Run 3	55.027 ppb	97.169 %	97.513 %	0.027 ppb	0.194 ppb
Concentration RSD	0.8 %	1.3 %	1.3 %	42.8 %	1.0 %

Alpha ICPMSQ Data with SRD

3/5/2024 4:47:09 PM

Analysis index: 38 User name ALPHALAB\Metals-Instrument Comment <Comment>
Analysis label: L2410731-06 6020SL Rack 1
Analysis started at: 3/5/2024 8:02:28 AM Vial 12

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	94.189 %	106.077 %	0.008 ppb	68,394.341 ppb	2,453.745 ppb	55.039 ppb	7,177.036 ppb	10,304.330 ppb	95.741 %
Concentration per Run 1	95.532 %	104.834 %	0.003 ppb	69,848.464 ppb	2,475.201 ppb	54.210 ppb	7,222.019 ppb	10,284.496 ppb	96.264 %
Concentration per Run 2	93.081 %	108.564 %	0.012 ppb	67,316.161 ppb	2,428.034 ppb	55.126 ppb	7,010.646 ppb	10,155.415 ppb	94.984 %
Concentration per Run 3	93.955 %	104.834 %	0.010 ppb	68,018.397 ppb	2,458.001 ppb	55.781 ppb	7,298.442 ppb	10,473.080 ppb	95.974 %
Concentration RSD	1.3 %	2.0 %	54.8 %	1.9 %	1.0 %	1.4 %	2.1 %	1.6 %	0.7 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.662 ppb	0.674 ppb	11.306 ppb	80.077 ppb	0.072 ppb	1.309 ppb	10.790 ppb	10.289 ppb	97.284 %
Concentration per Run 1	0.605 ppb	0.731 ppb	11.441 ppb	80.627 ppb	0.069 ppb	1.248 ppb	11.016 ppb	10.377 ppb	97.280 %
Concentration per Run 2	0.707 ppb	0.642 ppb	11.190 ppb	78.624 ppb	0.076 ppb	1.393 ppb	10.715 ppb	10.110 ppb	98.452 %
Concentration per Run 3	0.672 ppb	0.647 ppb	11.286 ppb	80.980 ppb	0.070 ppb	1.284 ppb	10.640 ppb	10.381 ppb	96.119 %
Concentration RSD	7.9 %	7.4 %	1.1 %	1.6 %	5.5 %	5.8 %	1.8 %	1.5 %	1.2 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.458 ppb	0.329 ppb	218.207 ppb	2.604 ppb	93.847 %	0.029 ppb	0.018 ppb	95.228 %	1.461 ppb
Concentration per Run 1	0.492 ppb	0.343 ppb	219.647 ppb	2.609 ppb	92.816 %	0.033 ppb	0.023 ppb	93.603 %	1.413 ppb
Concentration per Run 2	0.418 ppb	0.292 ppb	215.205 ppb	2.588 ppb	95.000 %	0.029 ppb	0.014 ppb	96.804 %	1.454 ppb
Concentration per Run 3	0.464 ppb	0.352 ppb	219.769 ppb	2.614 ppb	93.725 %	0.025 ppb	0.017 ppb	95.278 %	1.516 ppb
Concentration RSD	8.2 %	9.8 %	1.2 %	0.5 %	1.2 %	15.0 %	25.5 %	1.7 %	3.5 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	24.880 ppb	99.755 %	99.313 %	0.020 ppb	0.445 ppb
Concentration per Run 1	25.291 ppb	97.565 %	97.267 %	0.011 ppb	0.451 ppb
Concentration per Run 2	24.339 ppb	100.810 %	99.848 %	0.026 ppb	0.442 ppb
Concentration per Run 3	25.011 ppb	100.890 %	100.825 %	0.022 ppb	0.441 ppb
Concentration RSD	2.0 %	1.9 %	1.9 %	38.8 %	1.3 %

Alpha ICPMSQ Data with SRD

3/5/2024 4:47:09 PM

Analysis index:	39	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	L2410731-07 6020SL	Rack	1		
Analysis started at:	3/5/2024 8:07:08 AM	Vial	13		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	85.339 %	91.229 %	0.010 ppb	159,719.244 ppb	33,622.149 ppb	3.353 ppb	7,369.476 ppb	173,610.048 ppb	86.835 %
Concentration per Run 1	86.804 %	91.989 %	0.009 ppb	151,272.907 ppb	31,128.263 ppb	2.573 ppb	6,815.004 ppb	163,658.009 ppb	88.005 %
Concentration per Run 2	85.524 %	95.718 %	0.003 ppb	160,359.483 ppb	35,349.618 ppb	3.148 ppb	7,728.113 ppb	178,105.420 ppb	86.613 %
Concentration per Run 3	83.689 %	85.981 %	0.018 ppb	167,525.341 ppb	34,388.565 ppb	4.338 ppb	7,565.311 ppb	179,066.716 ppb	85.887 %
Concentration RSD	1.8 %	5.4 %	72.0 %	5.1 %	6.6 %	26.9 %	6.6 %	5.0 %	1.2 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	1.221 ppb	0.240 ppb	1,342.569 ppb	9.128 ppb	0.472 ppb	4.402 ppb	1.305 ppb	1.230 ppb	91.088 %
Concentration per Run 1	1.284 ppb	0.234 ppb	1,278.684 ppb	9.579 ppb	0.461 ppb	4.078 ppb	1.209 ppb	1.105 ppb	93.156 %
Concentration per Run 2	1.197 ppb	0.248 ppb	1,349.917 ppb	11.065 ppb	0.464 ppb	4.700 ppb	1.334 ppb	1.310 ppb	92.707 %
Concentration per Run 3	1.182 ppb	0.237 ppb	1,399.107 ppb	6.741 ppb	0.490 ppb	4.428 ppb	1.372 ppb	1.273 ppb	87.402 %
Concentration RSD	4.5 %	3.1 %	4.5 %	24.1 %	3.4 %	7.1 %	6.5 %	8.9 %	3.5 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.487 ppb	0.305 ppb	334.995 ppb	0.744 ppb	85.212 %	0.002 ppb	0.045 ppb	90.021 %	0.147 ppb
Concentration per Run 1	0.450 ppb	0.231 ppb	315.966 ppb	0.738 ppb	86.386 %	0.000 ppb	0.042 ppb	89.615 %	0.138 ppb
Concentration per Run 2	0.510 ppb	0.460 ppb	351.171 ppb	0.738 ppb	87.105 %	0.002 ppb	0.040 ppb	96.890 %	0.139 ppb
Concentration per Run 3	0.502 ppb	0.225 ppb	337.849 ppb	0.757 ppb	82.145 %	0.003 ppb	0.052 ppb	83.557 %	0.163 ppb
Concentration RSD	6.7 %	44.0 %	5.3 %	1.5 %	3.1 %	79.9 %	14.1 %	7.4 %	9.7 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	154.635 ppb	93.822 %	97.027 %	0.021 ppb	0.069 ppb
Concentration per Run 1	145.553 ppb	95.861 %	95.260 %	0.010 ppb	0.064 ppb
Concentration per Run 2	156.297 ppb	96.678 %	104.550 %	0.025 ppb	0.061 ppb
Concentration per Run 3	162.054 ppb	88.926 %	91.271 %	0.029 ppb	0.082 ppb
Concentration RSD	5.4 %	4.5 %	7.0 %	47.4 %	16.0 %

Alpha ICPMSQ Data with SRD

3/5/2024 4:47:09 PM

Analysis index:	40	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	CCV	Rack	0		
Analysis started at:	3/5/2024 8:11:44 AM	Vial	9		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	84.277 %	93.923 %	60.928 ppb	6,178.524 ppb	6,270.787 ppb	66.128 ppb	6,416.202 ppb	6,404.787 ppb	94.087 %
Concentration per Run 1	85.950 %	88.052 %	60.675 ppb	6,418.387 ppb	6,488.866 ppb	71.650 ppb	6,248.181 ppb	6,244.352 ppb	94.348 %
Concentration per Run 2	84.842 %	99.655 %	61.050 ppb	6,081.542 ppb	6,255.265 ppb	65.256 ppb	6,689.144 ppb	6,662.764 ppb	95.778 %
Concentration per Run 3	82.038 %	94.061 %	61.060 ppb	6,035.642 ppb	6,068.229 ppb	61.477 ppb	6,311.281 ppb	6,307.245 ppb	92.133 %
Recovery Percentage 1			101.547 %	102.975 %	104.513 %	110.213 %	106.937 %	106.746 %	
Concentration RSD	2.4 %	6.2 %	0.4 %	3.4 %	3.4 %	7.8 %	3.7 %	3.5 %	2.0 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	61.529 ppb	61.346 ppb	62.528 ppb	5,998.043 ppb	61.638 ppb	62.200 ppb	61.920 ppb	66.661 ppb	92.550 %
Concentration per Run 1	62.328 ppb	62.270 ppb	61.505 ppb	5,994.746 ppb	62.916 ppb	62.211 ppb	62.380 ppb	65.186 ppb	93.155 %
Concentration per Run 2	60.494 ppb	60.656 ppb	64.018 ppb	5,975.556 ppb	59.719 ppb	60.573 ppb	60.605 ppb	67.102 ppb	96.064 %
Concentration per Run 3	61.765 ppb	61.113 ppb	62.062 ppb	6,023.828 ppb	62.280 ppb	63.815 ppb	62.774 ppb	67.695 ppb	88.430 %
Recovery Percentage 1	102.548 %	102.244 %	104.213 %	99.967 %	102.731 %	103.666 %	103.200 %	111.101 %	
Concentration RSD	1.5 %	1.4 %	2.1 %	0.4 %	2.7 %	2.6 %	1.9 %	2.0 %	4.2 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	61.223 ppb	65.332 ppb	62.304 ppb	58.955 ppb	90.438 %	61.314 ppb	61.267 ppb	92.271 %	60.321 ppb
Concentration per Run 1	59.192 ppb	63.940 ppb	60.608 ppb	57.540 ppb	91.041 %	62.221 ppb	61.694 ppb	90.405 %	60.144 ppb
Concentration per Run 2	61.982 ppb	66.978 ppb	64.366 ppb	58.696 ppb	91.652 %	59.900 ppb	60.071 ppb	97.182 %	60.180 ppb
Concentration per Run 3	62.497 ppb	65.078 ppb	61.938 ppb	60.631 ppb	88.622 %	61.821 ppb	62.036 ppb	89.227 %	60.640 ppb
Recovery Percentage 1	102.039 %	108.886 %	103.840 %	98.259 %		102.190 %	102.112 %		100.536 %
Concentration RSD	2.9 %	2.3 %	3.1 %	2.6 %	1.8 %	2.0 %	1.7 %	4.7 %	0.5 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	61.550 ppb	95.986 %	96.527 %	60.346 ppb	61.178 ppb
Concentration per Run 1	62.089 ppb	95.127 %	93.803 %	61.059 ppb	62.521 ppb
Concentration per Run 2	61.179 ppb	97.954 %	99.946 %	59.193 ppb	60.253 ppb
Concentration per Run 3	61.381 ppb	94.879 %	95.834 %	60.786 ppb	60.760 ppb
Recovery Percentage 1	102.583 %			100.577 %	101.963 %
Concentration RSD	0.8 %	1.8 %	3.2 %	1.7 %	1.9 %

Alpha ICPMSQ Data with SRD

3/5/2024 4:47:09 PM

Analysis index:	41	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	CCB	Rack	0		
Analysis started at:	3/5/2024 8:16:26 AM	Vial	10		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	82.683 %	93.025 %	0.009 ppb	5.366 ppb	-0.229 ppb	-0.367 ppb	-4.133 ppb	1.378 ppb	81.333 %
Concentration per Run 1	82.972 %	88.674 %	0.003 ppb	6.065 ppb	-0.125 ppb	-0.378 ppb	-5.110 ppb	-4.015 ppb	82.977 %
Concentration per Run 2	83.733 %	100.069 %	0.009 ppb	4.805 ppb	-0.198 ppb	-0.255 ppb	-0.204 ppb	3.609 ppb	81.583 %
Concentration per Run 3	81.343 %	90.331 %	0.016 ppb	5.227 ppb	-0.363 ppb	-0.468 ppb	-7.086 ppb	4.540 ppb	79.440 %
Recovery Percentage 1			1.843 %	5.366 %	-0.327 %	-3.670 %	-4.133 %	1.378 %	
Concentration RSD	1.5 %	6.6 %	72.1 %	12.0 %	53.3 %	29.1 %	85.7 %	340.6 %	2.2 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.013 ppb	0.013 ppb	0.026 ppb	11.134 ppb	0.001 ppb	-0.002 ppb	0.027 ppb	0.071 ppb	90.576 %
Concentration per Run 1	0.000 ppb	0.016 ppb	0.005 ppb	12.716 ppb	0.000 ppb	-0.001 ppb	0.048 ppb	0.068 ppb	88.856 %
Concentration per Run 2	-0.016 ppb	0.019 ppb	0.040 ppb	9.897 ppb	-0.001 ppb	-0.012 ppb	0.004 ppb	0.046 ppb	95.742 %
Concentration per Run 3	-0.023 ppb	0.006 ppb	0.033 ppb	10.790 ppb	0.003 ppb	0.007 ppb	0.028 ppb	0.100 ppb	87.130 %
Recovery Percentage 1	-0.256 %	1.339 %	2.590 %	22.268 %	0.176 %	-0.092 %	2.674 %	1.427 %	
Concentration RSD	93.1 %	49.2 %	71.8 %	12.9 %	257.4 %	507.9 %	83.4 %	37.8 %	5.0 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.074 ppb	0.244 ppb	-0.002 ppb	0.857 ppb	90.991 %	0.006 ppb	0.004 ppb	91.844 %	0.033 ppb
Concentration per Run 1	0.060 ppb	0.230 ppb	-0.001 ppb	0.809 ppb	91.006 %	0.008 ppb	0.005 ppb	92.168 %	0.024 ppb
Concentration per Run 2	0.101 ppb	0.263 ppb	-0.002 ppb	0.871 ppb	91.679 %	0.005 ppb	0.005 ppb	95.248 %	0.027 ppb
Concentration per Run 3	0.061 ppb	0.237 ppb	-0.003 ppb	0.891 ppb	90.289 %	0.007 ppb	0.003 ppb	88.116 %	0.047 ppb
Recovery Percentage 1	14.759 %	4.871 %	-0.019 %	42.845 %		1.602 %	2.063 %		0.820 %
Concentration RSD	31.9 %	7.2 %	57.2 %	5.0 %	0.8 %	20.5 %	32.8 %	3.9 %	38.7 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	0.006 ppb	93.577 %	96.216 %	0.439 ppb	0.066 ppb
Concentration per Run 1	-0.003 ppb	91.851 %	93.611 %	0.432 ppb	0.076 ppb
Concentration per Run 2	0.007 ppb	96.970 %	101.690 %	0.475 ppb	0.060 ppb
Concentration per Run 3	0.014 ppb	91.911 %	93.348 %	0.410 ppb	0.062 ppb
Recovery Percentage 1	1.225 %			43.901 %	6.599 %
Concentration RSD	138.7 %	3.1 %	4.9 %	7.5 %	12.8 %

Alpha ICPMSQ Data with SRD

3/5/2024 4:47:09 PM

Analysis index: 42
Analysis label: CCV
Analysis started at: 3/5/2024 8:35:04 AM
User name ALPHALAB\Metals-Instrument
Rack 0
Vial 9
Comment <Comment>

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	80.163 %	92.334 %	59.770 ppb	5,673.015 ppb	5,807.957 ppb	57.785 ppb	5,781.715 ppb	5,767.023 ppb	92.136 %
Concentration per Run 1	80.937 %	95.304 %	59.942 ppb	6,074.005 ppb	6,180.877 ppb	64.953 ppb	6,419.667 ppb	6,389.785 ppb	92.734 %
Concentration per Run 2	79.058 %	90.746 %	59.941 ppb	5,570.847 ppb	5,685.732 ppb	52.426 ppb	5,584.823 ppb	5,427.427 ppb	90.618 %
Concentration per Run 3	80.494 %	90.953 %	59.427 ppb	5,374.192 ppb	5,557.262 ppb	55.977 ppb	5,340.655 ppb	5,483.858 ppb	93.054 %
Recovery Percentage 1			99.616 %	94.550 %	96.799 %	96.309 %	96.362 %	96.117 %	
Concentration RSD	1.2 %	2.8 %	0.5 %	6.4 %	5.7 %	11.2 %	9.8 %	9.4 %	1.4 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	58.760 ppb	58.693 ppb	58.635 ppb	5,773.431 ppb	58.857 ppb	59.476 ppb	59.175 ppb	58.190 ppb	89.161 %
Concentration per Run 1	61.894 ppb	62.181 ppb	63.965 ppb	6,131.320 ppb	61.339 ppb	62.096 ppb	62.053 ppb	61.650 ppb	89.389 %
Concentration per Run 2	58.732 ppb	58.346 ppb	58.052 ppb	5,574.595 ppb	57.674 ppb	57.558 ppb	56.893 ppb	56.002 ppb	91.354 %
Concentration per Run 3	55.653 ppb	55.553 ppb	53.886 ppb	5,614.379 ppb	57.560 ppb	58.775 ppb	58.581 ppb	56.917 ppb	86.742 %
Recovery Percentage 1	97.933 %	97.822 %	97.724 %	96.224 %	98.096 %	99.127 %	98.625 %	96.983 %	
Concentration RSD	5.3 %	5.7 %	8.6 %	5.4 %	3.7 %	3.9 %	4.4 %	5.2 %	2.6 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	59.183 ppb	63.130 ppb	62.063 ppb	62.552 ppb	88.220 %	60.069 ppb	60.342 ppb	90.391 %	60.931 ppb
Concentration per Run 1	64.771 ppb	69.277 ppb	70.799 ppb	66.849 ppb	85.169 %	64.139 ppb	65.841 ppb	89.950 %	66.052 ppb
Concentration per Run 2	56.883 ppb	62.236 ppb	58.484 ppb	60.264 ppb	91.097 %	57.346 ppb	57.790 ppb	91.971 %	58.411 ppb
Concentration per Run 3	55.896 ppb	57.877 ppb	56.907 ppb	60.543 ppb	88.392 %	58.721 ppb	57.393 ppb	89.252 %	58.332 ppb
Recovery Percentage 1	98.639 %	105.217 %	103.439 %	104.254 %		100.114 %	100.569 %		101.552 %
Concentration RSD	8.2 %	9.1 %	12.3 %	6.0 %	3.4 %	6.0 %	7.9 %	1.6 %	7.3 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	59.787 ppb	96.560 %	96.207 %	61.911 ppb	59.437 ppb
Concentration per Run 1	65.615 ppb	94.177 %	93.894 %	66.078 ppb	63.810 ppb
Concentration per Run 2	57.469 ppb	99.246 %	100.009 %	58.719 ppb	55.801 ppb
Concentration per Run 3	56.277 ppb	96.257 %	94.719 %	60.935 ppb	58.700 ppb
Recovery Percentage 1	99.645 %			103.185 %	99.061 %
Concentration RSD	8.5 %	2.6 %	3.4 %	6.1 %	6.8 %

Alpha ICPMSQ Data with SRD

3/5/2024 4:47:09 PM

Analysis index: 43
Analysis label: CCB
Analysis started at: 3/5/2024 8:39:45 AM
User name ALPHALAB\Metals-Instrument
Rack 0
Vial 10
Comment <Comment>

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	85.458 %	88.329 %	0.016 ppb	2.175 ppb	-0.267 ppb	-0.430 ppb	-2.464 ppb	-2.445 ppb	83.289 %
Concentration per Run 1	82.020 %	86.602 %	0.012 ppb	4.386 ppb	0.137 ppb	-0.367 ppb	-9.163 ppb	-3.903 ppb	80.229 %
Concentration per Run 2	85.040 %	86.395 %	0.022 ppb	2.040 ppb	-0.345 ppb	-0.458 ppb	-1.692 ppb	0.486 ppb	86.318 %
Concentration per Run 3	89.316 %	91.989 %	0.014 ppb	0.099 ppb	-0.592 ppb	-0.464 ppb	3.464 ppb	-3.917 ppb	83.320 %
Recovery Percentage 1			3.172 %	2.175 %	-0.381 %	-4.298 %	-2.464 %	-2.445 %	
Concentration RSD	4.3 %	3.6 %	33.2 %	98.7 %	139.0 %	12.8 %	257.7 %	103.8 %	3.7 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.018 ppb	-0.007 ppb	-0.023 ppb	11.329 ppb	-0.001 ppb	-0.001 ppb	0.000 ppb	0.132 ppb	83.294 %
Concentration per Run 1	-0.023 ppb	-0.008 ppb	-0.037 ppb	11.616 ppb	-0.002 ppb	0.002 ppb	-0.005 ppb	0.160 ppb	84.522 %
Concentration per Run 2	-0.015 ppb	0.004 ppb	0.006 ppb	11.269 ppb	0.002 ppb	-0.039 ppb	0.012 ppb	0.110 ppb	85.825 %
Concentration per Run 3	-0.015 ppb	-0.016 ppb	-0.037 ppb	11.102 ppb	-0.002 ppb	0.033 ppb	-0.008 ppb	0.126 ppb	79.534 %
Recovery Percentage 1	-0.350 %	-0.666 %	-2.274 %	22.658 %	-0.188 %	-0.056 %	-0.017 %	2.642 %	
Concentration RSD	26.8 %	153.6 %	109.9 %	2.3 %	240.4 %	3,212.1 %	6,570.3 %	19.5 %	4.0 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.143 ppb	0.585 ppb	-0.007 ppb	1.110 ppb	87.264 %	0.003 ppb	0.010 ppb	86.634 %	0.357 ppb
Concentration per Run 1	0.159 ppb	0.442 ppb	-0.007 ppb	0.948 ppb	86.487 %	0.004 ppb	0.007 ppb	86.910 %	0.321 ppb
Concentration per Run 2	0.127 ppb	0.740 ppb	-0.009 ppb	1.249 ppb	88.771 %	0.003 ppb	0.017 ppb	87.946 %	0.354 ppb
Concentration per Run 3	0.143 ppb	0.573 ppb	-0.004 ppb	1.132 ppb	86.532 %	0.002 ppb	0.008 ppb	85.046 %	0.397 ppb
Recovery Percentage 1	28.558 %	11.702 %	-0.067 %	55.494 %		0.846 %	5.224 %		8.930 %
Concentration RSD	11.3 %	25.6 %	37.6 %	13.7 %	1.5 %	27.5 %	53.0 %	1.7 %	10.6 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	-0.001 ppb	89.549 %	90.368 %	0.624 ppb	0.048 ppb
Concentration per Run 1	-0.003 ppb	89.859 %	91.357 %	0.566 ppb	0.054 ppb
Concentration per Run 2	-0.003 ppb	91.079 %	91.735 %	0.698 ppb	0.047 ppb
Concentration per Run 3	0.003 ppb	87.709 %	88.012 %	0.608 ppb	0.043 ppb
Recovery Percentage 1	-0.145 %			62.412 %	4.825 %
Concentration RSD	478.3 %	1.9 %	2.3 %	10.7 %	11.1 %

Alpha ICPMSQ Data with SRD

3/5/2024 4:47:09 PM

Analysis index:	44	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	WG1890897-1 6020SL	Rack	1		
Analysis started at:	3/5/2024 8:49:07 AM	Vial	25		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	85.373 %	93.094 %	0.008 ppb	4.224 ppb	0.908 ppb	1.266 ppb	-3.562 ppb	9.955 ppb	88.056 %
Concentration per Run 1	85.809 %	94.889 %	0.006 ppb	5.483 ppb	1.385 ppb	1.863 ppb	-2.549 ppb	10.889 ppb	88.205 %
Concentration per Run 2	84.814 %	91.574 %	0.009 ppb	2.986 ppb	1.039 ppb	1.305 ppb	-7.422 ppb	10.658 ppb	87.533 %
Concentration per Run 3	85.496 %	92.818 %	0.008 ppb	4.203 ppb	0.299 ppb	0.630 ppb	-0.715 ppb	8.318 ppb	88.430 %
Concentration RSD	0.6 %	1.8 %	20.1 %	29.6 %	61.2 %	48.8 %	97.3 %	14.3 %	0.5 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.005 ppb	0.062 ppb	0.108 ppb	4.968 ppb	0.001 ppb	0.159 ppb	0.122 ppb	0.298 ppb	87.274 %
Concentration per Run 1	0.000 ppb	0.080 ppb	0.098 ppb	4.779 ppb	0.001 ppb	0.156 ppb	0.144 ppb	0.297 ppb	90.379 %
Concentration per Run 2	0.010 ppb	0.047 ppb	0.125 ppb	5.303 ppb	-0.002 ppb	0.164 ppb	0.099 ppb	0.321 ppb	81.285 %
Concentration per Run 3	-0.023 ppb	0.059 ppb	0.099 ppb	4.822 ppb	0.003 ppb	0.158 ppb	0.124 ppb	0.276 ppb	90.159 %
Concentration RSD	361.9 %	26.8 %	14.1 %	5.9 %	338.2 %	2.4 %	18.4 %	7.4 %	5.9 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.023 ppb	0.086 ppb	0.004 ppb	0.208 ppb	89.863 %	0.002 ppb	0.004 ppb	88.788 %	0.194 ppb
Concentration per Run 1	-0.020 ppb	0.081 ppb	0.003 ppb	0.157 ppb	91.986 %	0.002 ppb	0.003 ppb	88.276 %	0.185 ppb
Concentration per Run 2	0.079 ppb	0.093 ppb	0.005 ppb	0.260 ppb	87.994 %	0.001 ppb	0.007 ppb	86.240 %	0.188 ppb
Concentration per Run 3	0.010 ppb	0.084 ppb	0.003 ppb	0.207 ppb	89.609 %	0.002 ppb	0.004 ppb	91.849 %	0.209 ppb
Concentration RSD	223.4 %	7.0 %	19.5 %	24.8 %	2.2 %	28.3 %	48.1 %	3.2 %	6.7 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	0.021 ppb	93.544 %	93.657 %	0.150 ppb	0.030 ppb
Concentration per Run 1	0.019 ppb	93.815 %	92.202 %	0.115 ppb	0.033 ppb
Concentration per Run 2	0.014 ppb	91.062 %	91.426 %	0.175 ppb	0.032 ppb
Concentration per Run 3	0.029 ppb	95.756 %	97.342 %	0.160 ppb	0.027 ppb
Concentration RSD	36.1 %	2.5 %	3.4 %	20.7 %	10.9 %

Alpha ICPMSQ Data with SRD

3/5/2024 4:47:09 PM

Analysis index:	45	User name	ALPHALAB\Metals-Instrument	Comment	FB
Analysis label:	L2410731-02 6020SL	Rack	1		
Analysis started at:	3/5/2024 8:53:44 AM	Vial	8		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	87.182 %	95.373 %	0.013 ppb	36.237 ppb	1.464 ppb	2.309 ppb	5.165 ppb	3.218 ppb	90.947 %
Concentration per Run 1	88.250 %	97.168 %	0.015 ppb	35.635 ppb	1.795 ppb	2.250 ppb	2.557 ppb	9.065 ppb	91.816 %
Concentration per Run 2	86.684 %	86.602 %	0.008 ppb	40.039 ppb	1.334 ppb	2.713 ppb	5.415 ppb	-0.130 ppb	90.486 %
Concentration per Run 3	86.611 %	102.348 %	0.016 ppb	33.038 ppb	1.262 ppb	1.964 ppb	7.524 ppb	0.719 ppb	90.537 %
Concentration RSD	1.1 %	8.4 %	32.6 %	9.8 %	19.8 %	16.4 %	48.3 %	157.9 %	0.8 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.013 ppb	0.105 ppb	0.023 ppb	4.681 ppb	0.012 ppb	0.019 ppb	0.196 ppb	0.812 ppb	88.176 %
Concentration per Run 1	-0.008 ppb	0.119 ppb	0.058 ppb	5.637 ppb	0.018 ppb	0.005 ppb	0.192 ppb	0.872 ppb	88.419 %
Concentration per Run 2	-0.023 ppb	0.098 ppb	0.035 ppb	4.522 ppb	0.010 ppb	0.049 ppb	0.202 ppb	0.798 ppb	85.637 %
Concentration per Run 3	-0.008 ppb	0.098 ppb	-0.024 ppb	3.883 ppb	0.007 ppb	0.003 ppb	0.194 ppb	0.767 ppb	90.471 %
Concentration RSD	65.7 %	11.9 %	183.1 %	19.0 %	51.9 %	138.1 %	2.7 %	6.7 %	2.8 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.022 ppb	0.114 ppb	0.057 ppb	0.130 ppb	92.331 %	0.000 ppb	0.003 ppb	91.980 %	0.331 ppb
Concentration per Run 1	0.027 ppb	-0.020 ppb	0.060 ppb	0.077 ppb	91.855 %	0.000 ppb	0.002 ppb	93.333 %	0.313 ppb
Concentration per Run 2	-0.002 ppb	0.237 ppb	0.059 ppb	0.171 ppb	92.076 %	0.000 ppb	0.004 ppb	88.020 %	0.358 ppb
Concentration per Run 3	0.042 ppb	0.125 ppb	0.052 ppb	0.141 ppb	93.062 %	0.001 ppb	0.004 ppb	94.588 %	0.321 ppb
Concentration RSD	99.5 %	113.3 %	8.2 %	37.3 %	0.7 %	77.0 %	22.5 %	3.8 %	7.3 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	0.031 ppb	94.909 %	94.299 %	0.097 ppb	0.033 ppb
Concentration per Run 1	0.023 ppb	95.996 %	94.018 %	0.067 ppb	0.036 ppb
Concentration per Run 2	0.042 ppb	93.043 %	90.610 %	0.116 ppb	0.032 ppb
Concentration per Run 3	0.029 ppb	95.689 %	98.268 %	0.108 ppb	0.032 ppb
Concentration RSD	29.9 %	1.7 %	4.1 %	27.4 %	5.5 %

Alpha ICPMSQ Data with SRD

3/5/2024 4:47:09 PM

Analysis index:	46	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	WG1890897-2d20 6020SL	Rack	1		
Analysis started at:	3/5/2024 8:58:23 AM	Vial	26		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	84.326 %	89.019 %	2.623 ppb	513.071 ppb	498.190 ppb	104.727 ppb	508.346 ppb	507.513 ppb	86.821 %
Concentration per Run 1	85.710 %	84.737 %	2.641 ppb	549.483 ppb	539.882 ppb	114.615 ppb	548.051 ppb	544.947 ppb	87.910 %
Concentration per Run 2	84.903 %	95.718 %	2.639 ppb	463.647 ppb	445.359 ppb	89.625 ppb	443.350 ppb	476.906 ppb	87.001 %
Concentration per Run 3	82.364 %	86.602 %	2.588 ppb	526.084 ppb	509.329 ppb	109.942 ppb	533.636 ppb	500.685 ppb	85.553 %
Concentration RSD	2.1 %	6.6 %	1.1 %	8.6 %	9.7 %	12.7 %	11.2 %	6.8 %	1.4 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	25.501 ppb	10.325 ppb	26.195 ppb	57.288 ppb	25.786 ppb	26.470 ppb	13.014 ppb	25.402 ppb	90.000 %
Concentration per Run 1	27.071 ppb	11.059 ppb	28.742 ppb	55.064 ppb	27.394 ppb	28.243 ppb	13.893 ppb	26.977 ppb	87.018 %
Concentration per Run 2	23.915 ppb	9.555 ppb	24.612 ppb	54.450 ppb	24.245 ppb	25.303 ppb	12.499 ppb	24.158 ppb	90.745 %
Concentration per Run 3	25.517 ppb	10.360 ppb	25.232 ppb	62.350 ppb	25.719 ppb	25.866 ppb	12.649 ppb	25.071 ppb	92.237 %
Concentration RSD	6.2 %	7.3 %	8.5 %	7.7 %	6.1 %	5.9 %	5.9 %	5.7 %	3.0 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	5.914 ppb	6.116 ppb	48.366 ppb	46.960 ppb	89.808 %	2.568 ppb	2.727 ppb	89.395 %	17.216 ppb
Concentration per Run 1	6.341 ppb	6.447 ppb	51.651 ppb	48.836 ppb	88.531 %	2.708 ppb	3.006 ppb	86.701 %	18.536 ppb
Concentration per Run 2	5.503 ppb	5.487 ppb	44.643 ppb	44.415 ppb	91.531 %	2.460 ppb	2.524 ppb	89.351 %	15.940 ppb
Concentration per Run 3	5.898 ppb	6.413 ppb	48.805 ppb	47.630 ppb	89.363 %	2.535 ppb	2.651 ppb	92.133 %	17.171 ppb
Concentration RSD	7.1 %	8.9 %	7.3 %	4.9 %	1.7 %	5.0 %	9.2 %	3.0 %	7.5 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	101.236 ppb	92.857 %	94.709 %	5.826 ppb	26.842 ppb
Concentration per Run 1	108.561 ppb	90.904 %	92.160 %	6.046 ppb	28.527 ppb
Concentration per Run 2	94.414 ppb	93.204 %	92.667 %	5.699 ppb	26.057 ppb
Concentration per Run 3	100.734 ppb	94.463 %	99.301 %	5.732 ppb	25.943 ppb
Concentration RSD	7.0 %	1.9 %	4.2 %	3.3 %	5.4 %

Alpha ICPMSQ Data with SRD

3/5/2024 4:47:09 PM

Analysis index:	47	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	L2410731-08 6020SL	Rack	1		
Analysis started at:	3/5/2024 9:02:59 AM	Vial	14		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	77.639 %	87.016 %	0.015 ppb	212,579.562 ppb	70,406.130 ppb	2.089 ppb	16,519.711 ppb	338,591.510 ppb	92.539 %
Concentration per Run 1	78.369 %	88.260 %	0.019 ppb	211,708.117 ppb	70,252.956 ppb	1.984 ppb	16,703.273 ppb	348,535.124 ppb	93.007 %
Concentration per Run 2	77.954 %	84.323 %	0.011 ppb	210,585.133 ppb	70,324.951 ppb	1.930 ppb	15,766.185 ppb	322,282.821 ppb	92.584 %
Concentration per Run 3	76.594 %	88.467 %	0.015 ppb	215,445.436 ppb	70,640.485 ppb	2.352 ppb	17,089.675 ppb	344,956.587 ppb	92.028 %
Concentration RSD	1.2 %	2.7 %	23.9 %	1.2 %	0.3 %	11.0 %	4.1 %	4.2 %	0.5 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.500 ppb	0.073 ppb	3,479.488 ppb	212.261 ppb	2.881 ppb	2.140 ppb	0.660 ppb	4.298 ppb	86.428 %
Concentration per Run 1	0.508 ppb	0.076 ppb	3,559.625 ppb	219.092 ppb	2.965 ppb	2.292 ppb	0.680 ppb	4.617 ppb	82.393 %
Concentration per Run 2	0.536 ppb	0.063 ppb	3,459.856 ppb	205.068 ppb	2.922 ppb	2.014 ppb	0.654 ppb	4.113 ppb	87.324 %
Concentration per Run 3	0.456 ppb	0.078 ppb	3,418.984 ppb	212.622 ppb	2.757 ppb	2.115 ppb	0.647 ppb	4.163 ppb	89.565 %
Concentration RSD	8.1 %	10.9 %	2.1 %	3.3 %	3.8 %	6.6 %	2.7 %	6.5 %	4.2 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	1.214 ppb	0.694 ppb	903.557 ppb	3.476 ppb	81.679 %	0.004 ppb	0.029 ppb	86.451 %	1.807 ppb
Concentration per Run 1	1.256 ppb	0.832 ppb	915.952 ppb	3.538 ppb	79.338 %	0.003 ppb	0.021 ppb	84.285 %	1.850 ppb
Concentration per Run 2	1.114 ppb	0.688 ppb	879.289 ppb	3.574 ppb	82.053 %	0.004 ppb	0.034 ppb	86.019 %	1.819 ppb
Concentration per Run 3	1.273 ppb	0.562 ppb	915.429 ppb	3.316 ppb	83.647 %	0.005 ppb	0.031 ppb	89.049 %	1.752 ppb
Concentration RSD	7.2 %	19.4 %	2.3 %	4.0 %	2.7 %	22.4 %	24.2 %	2.8 %	2.8 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	60.946 ppb	92.884 %	92.692 %	0.090 ppb	0.096 ppb
Concentration per Run 1	62.010 ppb	90.155 %	88.417 %	0.082 ppb	0.088 ppb
Concentration per Run 2	60.781 ppb	92.542 %	94.355 %	0.096 ppb	0.094 ppb
Concentration per Run 3	60.048 ppb	95.954 %	95.305 %	0.092 ppb	0.105 ppb
Concentration RSD	1.6 %	3.1 %	4.0 %	8.2 %	9.5 %

Alpha ICPMSQ Data with SRD

3/5/2024 4:47:09 PM

Analysis index:	48	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	L2410731-09 6020SL	Rack	1		
Analysis started at:	3/5/2024 9:07:35 AM	Vial	15		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	85.776 %	104.006 %	0.010 ppb	74,048.331 ppb	66.235 ppb	763.472 ppb	2,062.438 ppb	110,991.125 ppb	95.835 %
Concentration per Run 1	87.916 %	102.348 %	0.013 ppb	75,072.149 ppb	64.188 ppb	751.926 ppb	2,006.062 ppb	110,119.645 ppb	96.839 %
Concentration per Run 2	84.993 %	107.113 %	0.013 ppb	70,909.080 ppb	69.992 ppb	744.091 ppb	2,047.772 ppb	106,476.773 ppb	95.084 %
Concentration per Run 3	84.419 %	102.555 %	0.005 ppb	76,163.763 ppb	64.524 ppb	794.399 ppb	2,133.481 ppb	116,376.956 ppb	95.582 %
Concentration RSD	2.2 %	2.6 %	47.3 %	3.7 %	4.9 %	3.5 %	3.1 %	4.5 %	0.9 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	22.044 ppb	9.607 ppb	0.101 ppb	5.086 ppb	0.225 ppb	0.505 ppb	6.851 ppb	0.338 ppb	97.840 %
Concentration per Run 1	21.719 ppb	9.802 ppb	0.115 ppb	4.601 ppb	0.232 ppb	0.506 ppb	7.152 ppb	0.383 ppb	96.139 %
Concentration per Run 2	21.402 ppb	9.025 ppb	0.046 ppb	6.377 ppb	0.220 ppb	0.450 ppb	6.533 ppb	0.304 ppb	102.570 %
Concentration per Run 3	23.011 ppb	9.994 ppb	0.142 ppb	4.280 ppb	0.222 ppb	0.560 ppb	6.866 ppb	0.326 ppb	94.810 %
Concentration RSD	3.9 %	5.3 %	48.7 %	22.2 %	2.9 %	10.9 %	4.5 %	12.1 %	4.2 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	1.454 ppb	1.268 ppb	107.610 ppb	1.932 ppb	92.895 %	0.003 ppb	0.003 ppb	92.544 %	0.914 ppb
Concentration per Run 1	1.448 ppb	0.976 ppb	105.094 ppb	1.854 ppb	93.065 %	0.002 ppb	0.001 ppb	89.553 %	0.855 ppb
Concentration per Run 2	1.411 ppb	1.437 ppb	105.886 ppb	1.854 ppb	92.601 %	0.003 ppb	0.001 ppb	94.184 %	0.913 ppb
Concentration per Run 3	1.502 ppb	1.393 ppb	111.851 ppb	2.087 ppb	93.018 %	0.003 ppb	0.006 ppb	93.894 %	0.973 ppb
Concentration RSD	3.2 %	20.0 %	3.4 %	7.0 %	0.3 %	13.0 %	98.2 %	2.8 %	6.4 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	16.127 ppb	98.460 %	97.325 %	0.057 ppb	0.085 ppb
Concentration per Run 1	15.789 ppb	97.619 %	94.146 %	0.038 ppb	0.094 ppb
Concentration per Run 2	16.252 ppb	99.155 %	99.235 %	0.066 ppb	0.084 ppb
Concentration per Run 3	16.339 ppb	98.606 %	98.594 %	0.066 ppb	0.077 ppb
Concentration RSD	1.8 %	0.8 %	2.8 %	28.0 %	10.0 %

Alpha ICPMSQ Data with SRD

3/5/2024 4:47:09 PM

Analysis index:	49	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	WG1890897-3d20 6020SL	Rack	1		
Analysis started at:	3/5/2024 9:12:11 AM	Vial	28		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	87.642 %	99.171 %	2.830 ppb	7,849.378 ppb	2,966.451 ppb	112.381 ppb	790.299 ppb	2,092.902 ppb	88.294 %
Concentration per Run 1	88.815 %	105.249 %	2.792 ppb	7,585.049 ppb	2,818.918 ppb	108.894 ppb	820.802 ppb	2,000.547 ppb	88.266 %
Concentration per Run 2	87.798 %	96.133 %	2.835 ppb	7,910.555 ppb	3,006.406 ppb	113.016 ppb	785.739 ppb	2,105.934 ppb	88.394 %
Concentration per Run 3	86.313 %	96.133 %	2.863 ppb	8,052.529 ppb	3,074.029 ppb	115.233 ppb	764.356 ppb	2,172.226 ppb	88.221 %
Concentration RSD	1.4 %	5.3 %	1.3 %	3.1 %	4.5 %	2.9 %	3.6 %	4.1 %	0.1 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	26.351 ppb	10.912 ppb	36.516 ppb	59.699 ppb	27.815 ppb	28.709 ppb	14.098 ppb	27.155 ppb	97.686 %
Concentration per Run 1	26.174 ppb	10.992 ppb	36.260 ppb	67.684 ppb	28.355 ppb	29.338 ppb	14.460 ppb	27.217 ppb	95.287 %
Concentration per Run 2	25.874 ppb	10.829 ppb	35.541 ppb	57.912 ppb	27.089 ppb	27.702 ppb	14.086 ppb	26.864 ppb	101.475 %
Concentration per Run 3	27.004 ppb	10.914 ppb	37.748 ppb	53.502 ppb	28.000 ppb	29.088 ppb	13.749 ppb	27.385 ppb	96.295 %
Concentration RSD	2.2 %	0.7 %	3.1 %	12.2 %	2.3 %	3.1 %	2.5 %	1.0 %	3.4 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	6.679 ppb	7.238 ppb	57.217 ppb	50.752 ppb	95.636 %	2.707 ppb	2.925 ppb	95.533 %	22.278 ppb
Concentration per Run 1	6.739 ppb	6.776 ppb	58.541 ppb	50.723 ppb	93.956 %	2.767 ppb	2.909 ppb	94.518 %	22.006 ppb
Concentration per Run 2	6.534 ppb	7.635 ppb	55.618 ppb	50.379 ppb	96.558 %	2.714 ppb	2.941 ppb	93.564 %	22.771 ppb
Concentration per Run 3	6.765 ppb	7.304 ppb	57.492 ppb	51.153 ppb	96.394 %	2.641 ppb	2.924 ppb	98.517 %	22.057 ppb
Concentration RSD	1.9 %	6.0 %	2.6 %	0.8 %	1.5 %	2.3 %	0.6 %	2.8 %	1.9 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	118.108 ppb	97.469 %	98.368 %	6.187 ppb	28.540 ppb
Concentration per Run 1	117.823 ppb	95.906 %	94.790 %	6.325 ppb	29.507 ppb
Concentration per Run 2	118.424 ppb	98.681 %	100.451 %	6.067 ppb	27.966 ppb
Concentration per Run 3	118.077 ppb	97.819 %	99.862 %	6.169 ppb	28.148 ppb
Concentration RSD	0.3 %	1.5 %	3.2 %	2.1 %	3.0 %

Alpha ICPMSQ Data with SRD

3/5/2024 4:47:09 PM

Analysis index:	50	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	WG1890897-4d20 6020SL	Rack	1		
Analysis started at:	3/5/2024 9:16:48 AM	Vial	29		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	86.840 %	98.964 %	2.666 ppb	7,308.955 ppb	2,743.819 ppb	101.146 ppb	754.145 ppb	2,035.566 ppb	85.777 %
Concentration per Run 1	88.056 %	97.376 %	2.685 ppb	7,612.017 ppb	2,824.617 ppb	103.617 ppb	768.920 ppb	2,143.253 ppb	85.819 %
Concentration per Run 2	86.494 %	102.348 %	2.659 ppb	7,206.069 ppb	2,736.015 ppb	103.661 ppb	766.119 ppb	2,063.476 ppb	86.119 %
Concentration per Run 3	85.971 %	97.168 %	2.652 ppb	7,108.780 ppb	2,670.826 ppb	96.160 ppb	727.396 ppb	1,899.969 ppb	85.393 %
Concentration RSD	1.2 %	3.0 %	0.6 %	3.7 %	2.8 %	4.3 %	3.1 %	6.1 %	0.4 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	25.235 ppb	10.139 ppb	33.279 ppb	54.469 ppb	26.244 ppb	27.204 ppb	12.967 ppb	25.919 ppb	94.108 %
Concentration per Run 1	25.025 ppb	9.969 ppb	31.872 ppb	55.891 ppb	26.251 ppb	27.394 ppb	12.934 ppb	25.927 ppb	98.572 %
Concentration per Run 2	25.427 ppb	10.109 ppb	33.976 ppb	53.074 ppb	25.903 ppb	26.730 ppb	12.916 ppb	25.791 ppb	94.342 %
Concentration per Run 3	25.254 ppb	10.340 ppb	33.989 ppb	54.440 ppb	26.578 ppb	27.488 ppb	13.050 ppb	26.039 ppb	89.409 %
Concentration RSD	0.8 %	1.8 %	3.7 %	2.6 %	1.3 %	1.5 %	0.6 %	0.5 %	4.9 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	6.363 ppb	6.638 ppb	54.157 ppb	49.620 ppb	92.288 %	2.591 ppb	2.761 ppb	93.358 %	22.446 ppb
Concentration per Run 1	6.270 ppb	6.388 ppb	53.190 ppb	47.444 ppb	96.033 %	2.566 ppb	2.718 ppb	96.805 %	22.077 ppb
Concentration per Run 2	6.504 ppb	7.090 ppb	55.885 ppb	50.091 ppb	91.870 %	2.595 ppb	2.839 ppb	95.345 %	22.293 ppb
Concentration per Run 3	6.316 ppb	6.436 ppb	53.397 ppb	51.325 ppb	88.962 %	2.612 ppb	2.725 ppb	87.925 %	22.969 ppb
Concentration RSD	1.9 %	5.9 %	2.8 %	4.0 %	3.9 %	0.9 %	2.5 %	5.1 %	2.1 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	109.349 ppb	95.395 %	95.678 %	5.972 ppb	27.567 ppb
Concentration per Run 1	107.161 ppb	99.405 %	98.509 %	5.802 ppb	26.927 ppb
Concentration per Run 2	110.911 ppb	95.206 %	97.270 %	5.966 ppb	27.601 ppb
Concentration per Run 3	109.974 ppb	91.573 %	91.255 %	6.148 ppb	28.173 ppb
Concentration RSD	1.8 %	4.1 %	4.1 %	2.9 %	2.3 %

Alpha ICPMSQ Data with SRD

3/5/2024 4:47:09 PM

Analysis index: 51
Analysis label: WG1890897-5d10 6020SL
Analysis started at: 3/5/2024 9:21:26 AM
User name ALPHALAB\Metals-Instrument
Rack 1
Vial 30
Comment <Comment>

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	81.890 %	91.989 %	49.240 ppb	18,767.188 ppb	9,229.300 ppb	51.132 ppb	5,369.778 ppb	7,916.966 ppb	88.203 %
Concentration per Run 1	83.172 %	87.016 %	49.488 ppb	20,738.773 ppb	10,108.123 ppb	54.243 ppb	5,907.052 ppb	8,574.304 ppb	89.110 %
Concentration per Run 2	81.341 %	97.583 %	49.341 ppb	17,138.922 ppb	8,557.185 ppb	48.259 ppb	5,058.437 ppb	7,513.461 ppb	87.746 %
Concentration per Run 3	81.158 %	91.367 %	48.891 ppb	18,423.868 ppb	9,022.593 ppb	50.896 ppb	5,143.844 ppb	7,663.133 ppb	87.752 %
Concentration RSD	1.4 %	5.8 %	0.6 %	9.7 %	8.6 %	5.9 %	8.7 %	7.3 %	0.9 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	48.725 ppb	48.607 ppb	62.518 ppb	4,741.797 ppb	47.814 ppb	50.276 ppb	47.472 ppb	48.918 ppb	91.567 %
Concentration per Run 1	50.662 ppb	49.759 ppb	65.216 ppb	4,896.025 ppb	48.516 ppb	50.569 ppb	47.962 ppb	50.380 ppb	94.576 %
Concentration per Run 2	47.090 ppb	47.226 ppb	59.809 ppb	4,571.459 ppb	46.727 ppb	49.549 ppb	46.579 ppb	47.839 ppb	90.756 %
Concentration per Run 3	48.425 ppb	48.835 ppb	62.530 ppb	4,757.906 ppb	48.198 ppb	50.710 ppb	47.874 ppb	48.535 ppb	89.367 %
Concentration RSD	3.7 %	2.6 %	4.3 %	3.4 %	2.0 %	1.3 %	1.6 %	2.7 %	2.9 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	49.264 ppb	50.020 ppb	60.110 ppb	49.618 ppb	88.710 %	0.509 ppb	49.322 ppb	91.152 %	49.967 ppb
Concentration per Run 1	49.146 ppb	51.846 ppb	63.732 ppb	48.981 ppb	89.284 %	0.527 ppb	50.012 ppb	93.386 %	52.522 ppb
Concentration per Run 2	48.728 ppb	51.008 ppb	58.328 ppb	49.287 ppb	88.154 %	0.511 ppb	48.776 ppb	90.549 %	49.266 ppb
Concentration per Run 3	49.917 ppb	47.208 ppb	58.270 ppb	50.587 ppb	88.693 %	0.489 ppb	49.178 ppb	89.520 %	48.113 ppb
Concentration RSD	1.2 %	4.9 %	5.2 %	1.7 %	0.6 %	3.7 %	1.3 %	2.2 %	4.6 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	58.189 ppb	95.180 %	96.217 %	45.096 ppb	48.541 ppb
Concentration per Run 1	61.351 ppb	95.415 %	99.271 %	43.954 ppb	47.819 ppb
Concentration per Run 2	56.358 ppb	94.885 %	94.433 %	45.858 ppb	48.904 ppb
Concentration per Run 3	56.859 ppb	95.241 %	94.948 %	45.475 ppb	48.901 ppb
Concentration RSD	4.7 %	0.3 %	2.8 %	2.2 %	1.3 %

Alpha ICPMSQ Data with SRD

3/5/2024 4:47:09 PM

Analysis index:	52	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	I2410449-01 6020SL	Rack	1		
Analysis started at:	3/5/2024 9:26:04 AM	Vial	27		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	80.290 %	87.500 %	0.013 ppb	141,504.143 ppb	47,703.241 ppb	3.094 ppb	4,149.968 ppb	29,237.623 ppb	85.011 %
Concentration per Run 1	80.311 %	84.945 %	0.012 ppb	141,247.953 ppb	48,044.905 ppb	3.259 ppb	4,128.336 ppb	28,073.344 ppb	85.191 %
Concentration per Run 2	81.476 %	87.638 %	0.016 ppb	146,263.731 ppb	49,213.269 ppb	3.366 ppb	4,339.265 ppb	31,053.940 ppb	86.391 %
Concentration per Run 3	79.082 %	89.917 %	0.010 ppb	137,000.745 ppb	45,851.549 ppb	2.657 ppb	3,982.304 ppb	28,585.586 ppb	83.452 %
Concentration RSD	1.5 %	2.8 %	24.9 %	3.3 %	3.6 %	12.4 %	4.3 %	5.5 %	1.7 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.764 ppb	1.186 ppb	141.709 ppb	16.471 ppb	0.339 ppb	18.661 ppb	0.486 ppb	1.350 ppb	89.233 %
Concentration per Run 1	0.778 ppb	1.139 ppb	140.209 ppb	16.736 ppb	0.333 ppb	18.852 ppb	0.528 ppb	1.293 ppb	89.174 %
Concentration per Run 2	0.736 ppb	1.296 ppb	147.556 ppb	17.156 ppb	0.347 ppb	18.850 ppb	0.485 ppb	1.376 ppb	88.217 %
Concentration per Run 3	0.779 ppb	1.123 ppb	137.361 ppb	15.520 ppb	0.337 ppb	18.281 ppb	0.444 ppb	1.380 ppb	90.308 %
Concentration RSD	3.2 %	8.0 %	3.7 %	5.2 %	2.1 %	1.8 %	8.6 %	3.6 %	1.2 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.569 ppb	2.245 ppb	80.923 ppb	5.560 ppb	81.599 %	0.002 ppb	0.115 ppb	86.311 %	0.714 ppb
Concentration per Run 1	0.531 ppb	2.477 ppb	76.890 ppb	5.384 ppb	82.457 %	0.001 ppb	0.115 ppb	86.456 %	0.634 ppb
Concentration per Run 2	0.660 ppb	2.494 ppb	86.366 ppb	5.733 ppb	81.060 %	0.001 ppb	0.118 ppb	85.861 %	0.750 ppb
Concentration per Run 3	0.518 ppb	1.763 ppb	79.514 ppb	5.565 ppb	81.280 %	0.005 ppb	0.113 ppb	86.616 %	0.759 ppb
Concentration RSD	13.8 %	18.6 %	6.0 %	3.1 %	0.9 %	99.1 %	2.1 %	0.5 %	9.7 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	94.665 ppb	92.209 %	92.415 %	0.460 ppb	0.064 ppb
Concentration per Run 1	91.111 ppb	93.003 %	92.244 %	0.420 ppb	0.063 ppb
Concentration per Run 2	100.262 ppb	92.182 %	95.575 %	0.525 ppb	0.063 ppb
Concentration per Run 3	92.621 ppb	91.444 %	89.427 %	0.433 ppb	0.065 ppb
Concentration RSD	5.2 %	0.8 %	3.3 %	12.4 %	1.1 %

Alpha ICPMSQ Data with SRD

3/5/2024 4:47:09 PM

Analysis index: 53
Analysis label: I2410449-01d10 6020SL
Analysis started at: 3/5/2024 9:32:30 AM
User name ALPHALAB\Metals-Instrument
Rack 1
Vial 35
Comment <Comment>

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	88.033 %	97.859 %	0.009 ppb	13,413.160 ppb	4,361.074 ppb	0.528 ppb	403.963 ppb	2,822.348 ppb	93.274 %
Concentration per Run 1	90.167 %	99.240 %	0.012 ppb	13,917.942 ppb	4,542.634 ppb	0.364 ppb	432.321 ppb	3,016.679 ppb	93.831 %
Concentration per Run 2	88.106 %	110.014 %	0.007 ppb	12,102.916 ppb	4,069.366 ppb	0.604 ppb	389.691 ppb	2,621.842 ppb	93.381 %
Concentration per Run 3	85.826 %	84.323 %	0.009 ppb	14,218.621 ppb	4,471.222 ppb	0.616 ppb	389.878 ppb	2,828.523 ppb	92.611 %
Concentration RSD	2.5 %	13.2 %	24.7 %	8.5 %	5.9 %	26.9 %	6.1 %	7.0 %	0.7 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.132 ppb	0.118 ppb	14.198 ppb	3.510 ppb	0.034 ppb	1.721 ppb	0.115 ppb	0.231 ppb	96.845 %
Concentration per Run 1	0.154 ppb	0.127 ppb	14.269 ppb	2.974 ppb	0.038 ppb	1.600 ppb	0.111 ppb	0.246 ppb	101.821 %
Concentration per Run 2	0.142 ppb	0.126 ppb	14.078 ppb	4.347 ppb	0.030 ppb	1.804 ppb	0.140 ppb	0.258 ppb	95.259 %
Concentration per Run 3	0.099 ppb	0.101 ppb	14.248 ppb	3.208 ppb	0.035 ppb	1.758 ppb	0.093 ppb	0.189 ppb	93.455 %
Concentration RSD	22.1 %	12.5 %	0.7 %	20.9 %	10.9 %	6.2 %	20.6 %	15.9 %	4.5 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.051 ppb	0.179 ppb	7.655 ppb	0.822 ppb	92.744 %	0.004 ppb	0.013 ppb	96.130 %	0.285 ppb
Concentration per Run 1	0.086 ppb	0.197 ppb	7.986 ppb	0.853 ppb	97.156 %	0.007 ppb	0.013 ppb	106.264 %	0.280 ppb
Concentration per Run 2	0.043 ppb	0.219 ppb	7.744 ppb	0.779 ppb	91.481 %	0.002 ppb	0.016 ppb	94.204 %	0.287 ppb
Concentration per Run 3	0.023 ppb	0.119 ppb	7.235 ppb	0.833 ppb	89.597 %	0.002 ppb	0.009 ppb	87.922 %	0.287 ppb
Concentration RSD	64.4 %	29.3 %	5.0 %	4.7 %	4.2 %	75.1 %	27.2 %	9.7 %	1.4 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	9.159 ppb	97.788 %	97.842 %	0.134 ppb	0.062 ppb
Concentration per Run 1	8.891 ppb	107.179 %	111.012 %	0.112 ppb	0.065 ppb
Concentration per Run 2	9.520 ppb	93.743 %	93.381 %	0.156 ppb	0.064 ppb
Concentration per Run 3	9.067 ppb	92.442 %	89.135 %	0.134 ppb	0.058 ppb
Concentration RSD	3.5 %	8.3 %	11.9 %	16.5 %	6.1 %

Alpha ICPMSQ Data with SRD

3/5/2024 4:47:09 PM

Analysis index:	54	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	CCV	Rack	0		
Analysis started at:	3/5/2024 9:37:08 AM	Vial	9		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	79.704 %	90.746 %	59.755 ppb	6,047.564 ppb	6,077.202 ppb	60.749 ppb	5,949.537 ppb	6,101.914 ppb	91.563 %
Concentration per Run 1	81.680 %	101.105 %	59.130 ppb	5,857.209 ppb	5,861.484 ppb	56.541 ppb	5,922.590 ppb	5,956.785 ppb	92.733 %
Concentration per Run 2	79.397 %	93.025 %	59.680 ppb	5,708.066 ppb	5,792.957 ppb	61.844 ppb	5,837.840 ppb	5,912.229 ppb	91.311 %
Concentration per Run 3	78.034 %	78.108 %	60.454 ppb	6,577.417 ppb	6,577.164 ppb	63.862 ppb	6,088.181 ppb	6,436.729 ppb	90.645 %
Recovery Percentage 1			99.592 %	100.793 %	101.287 %	101.248 %	99.159 %	101.699 %	
Concentration RSD	2.3 %	12.9 %	1.1 %	7.7 %	7.1 %	6.2 %	2.1 %	4.8 %	1.2 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	58.860 ppb	59.744 ppb	59.528 ppb	5,753.993 ppb	58.891 ppb	59.285 ppb	58.927 ppb	58.013 ppb	90.426 %
Concentration per Run 1	56.756 ppb	57.509 ppb	58.092 ppb	5,581.682 ppb	57.525 ppb	58.583 ppb	57.046 ppb	56.097 ppb	95.657 %
Concentration per Run 2	57.666 ppb	58.146 ppb	58.708 ppb	5,702.510 ppb	58.533 ppb	59.366 ppb	58.727 ppb	57.470 ppb	89.292 %
Concentration per Run 3	62.157 ppb	63.577 ppb	61.783 ppb	5,977.787 ppb	60.615 ppb	59.907 ppb	61.009 ppb	60.471 ppb	86.329 %
Recovery Percentage 1	98.099 %	99.573 %	99.213 %	95.900 %	98.152 %	98.809 %	98.212 %	96.688 %	
Concentration RSD	4.9 %	5.6 %	3.3 %	3.5 %	2.7 %	1.1 %	3.4 %	3.9 %	5.3 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	59.742 ppb	59.978 ppb	60.238 ppb	57.951 ppb	87.722 %	59.657 ppb	60.203 ppb	89.975 %	54.189 ppb
Concentration per Run 1	60.788 ppb	62.093 ppb	60.725 ppb	55.661 ppb	91.311 %	59.876 ppb	60.318 ppb	93.170 %	54.356 ppb
Concentration per Run 2	58.567 ppb	58.031 ppb	59.459 ppb	58.118 ppb	86.285 %	59.676 ppb	60.522 ppb	89.675 %	53.345 ppb
Concentration per Run 3	59.870 ppb	59.811 ppb	60.532 ppb	60.072 ppb	85.569 %	59.417 ppb	59.769 ppb	87.079 %	54.865 ppb
Recovery Percentage 1	99.570 %	99.964 %	100.397 %	96.584 %		99.428 %	100.338 %		90.314 %
Concentration RSD	1.9 %	3.4 %	1.1 %	3.8 %	3.6 %	0.4 %	0.6 %	3.4 %	1.4 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	60.535 ppb	94.281 %	94.890 %	59.963 ppb	59.882 ppb
Concentration per Run 1	61.326 ppb	96.167 %	98.345 %	57.810 ppb	58.165 ppb
Concentration per Run 2	59.471 ppb	93.073 %	94.684 %	59.834 ppb	59.856 ppb
Concentration per Run 3	60.810 ppb	93.602 %	91.640 %	62.244 ppb	61.624 ppb
Recovery Percentage 1	100.892 %			99.938 %	99.803 %
Concentration RSD	1.6 %	1.8 %	3.5 %	3.7 %	2.9 %

Alpha ICPMSQ Data with SRD

3/5/2024 4:47:09 PM

Analysis index:	55	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	CCB	Rack	0		
Analysis started at:	3/5/2024 9:41:49 AM	Vial	10		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	79.589 %	90.953 %	0.012 ppb	2.320 ppb	-0.445 ppb	-0.438 ppb	-2.158 ppb	-1.589 ppb	78.987 %
Concentration per Run 1	80.653 %	88.881 %	0.010 ppb	1.838 ppb	-0.826 ppb	-0.554 ppb	-3.077 ppb	-3.964 ppb	80.230 %
Concentration per Run 2	78.925 %	90.331 %	0.015 ppb	3.124 ppb	-0.358 ppb	-0.199 ppb	-0.515 ppb	0.425 ppb	78.318 %
Concentration per Run 3	79.190 %	93.646 %	0.009 ppb	1.998 ppb	-0.151 ppb	-0.560 ppb	-2.884 ppb	-1.228 ppb	78.413 %
Recovery Percentage 1			2.319 %	2.320 %	-0.636 %	-4.377 %	-2.158 %	-1.589 %	
Concentration RSD	1.2 %	2.7 %	27.7 %	30.2 %	77.7 %	47.3 %	66.1 %	139.5 %	1.4 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.006 ppb	0.001 ppb	-0.004 ppb	11.378 ppb	-0.001 ppb	0.012 ppb	0.019 ppb	0.084 ppb	86.566 %
Concentration per Run 1	0.016 ppb	-0.007 ppb	0.019 ppb	10.724 ppb	0.000 ppb	0.019 ppb	0.003 ppb	0.083 ppb	88.269 %
Concentration per Run 2	-0.007 ppb	0.002 ppb	-0.023 ppb	11.591 ppb	-0.002 ppb	0.016 ppb	0.026 ppb	0.108 ppb	83.506 %
Concentration per Run 3	0.008 ppb	0.008 ppb	-0.009 ppb	11.820 ppb	0.000 ppb	-0.001 ppb	0.028 ppb	0.060 ppb	87.924 %
Recovery Percentage 1	0.112 %	0.096 %	-0.438 %	22.757 %	-0.196 %	0.580 %	1.876 %	1.677 %	
Concentration RSD	206.1 %	763.3 %	485.3 %	5.1 %	111.4 %	93.3 %	74.4 %	28.5 %	3.1 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.047 ppb	0.237 ppb	-0.004 ppb	0.905 ppb	86.025 %	0.005 ppb	0.007 ppb	86.733 %	0.942 ppb
Concentration per Run 1	0.058 ppb	0.236 ppb	-0.006 ppb	0.902 ppb	87.835 %	0.006 ppb	0.012 ppb	88.721 %	0.907 ppb
Concentration per Run 2	0.072 ppb	0.396 ppb	-0.005 ppb	0.966 ppb	86.121 %	0.005 ppb	0.003 ppb	84.735 %	0.987 ppb
Concentration per Run 3	0.011 ppb	0.081 ppb	-0.003 ppb	0.845 ppb	84.119 %	0.004 ppb	0.005 ppb	86.742 %	0.932 ppb
Recovery Percentage 1	9.392 %	4.747 %	-0.044 %	45.233 %		1.262 %	3.263 %		23.547 %
Concentration RSD	67.8 %	66.3 %	37.2 %	6.7 %	2.2 %	27.7 %	70.2 %	2.3 %	4.4 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	0.012 ppb	91.044 %	91.639 %	0.414 ppb	0.041 ppb
Concentration per Run 1	0.031 ppb	90.860 %	92.006 %	0.380 ppb	0.046 ppb
Concentration per Run 2	-0.003 ppb	91.856 %	91.953 %	0.472 ppb	0.038 ppb
Concentration per Run 3	0.009 ppb	90.414 %	90.959 %	0.391 ppb	0.039 ppb
Recovery Percentage 1	2.453 %			41.441 %	4.089 %
Concentration RSD	138.9 %	0.8 %	0.6 %	12.0 %	11.1 %

Alpha ICPMSQ Data with SRD

3/5/2024 4:47:09 PM

Analysis index:	56	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	WG1890419-1 6020TL	Rack	1		
Analysis started at:	3/5/2024 9:50:19 AM	Vial	36		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	82.463 %	91.505 %	0.005 ppb	47.866 ppb	4.019 ppb	1.172 ppb	12.437 ppb	14.083 ppb	79.780 %
Concentration per Run 1	81.589 %	97.376 %	0.007 ppb	47.724 ppb	3.126 ppb	1.519 ppb	13.939 ppb	19.199 ppb	79.281 %
Concentration per Run 2	82.597 %	88.467 %	0.008 ppb	45.612 ppb	4.624 ppb	0.614 ppb	11.787 ppb	10.372 ppb	79.960 %
Concentration per Run 3	83.203 %	88.674 %	0.000 ppb	50.262 ppb	4.307 ppb	1.383 ppb	11.585 ppb	12.677 ppb	80.097 %
Concentration RSD	1.0 %	5.6 %	79.8 %	4.9 %	19.6 %	41.7 %	10.5 %	32.5 %	0.5 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.013 ppb	0.030 ppb	0.520 ppb	3.163 ppb	0.000 ppb	0.150 ppb	0.287 ppb	0.433 ppb	86.556 %
Concentration per Run 1	0.000 ppb	0.033 ppb	0.422 ppb	2.297 ppb	0.005 ppb	0.125 ppb	0.311 ppb	0.449 ppb	85.982 %
Concentration per Run 2	-0.023 ppb	0.028 ppb	0.644 ppb	3.271 ppb	-0.002 ppb	0.138 ppb	0.299 ppb	0.441 ppb	84.563 %
Concentration per Run 3	-0.015 ppb	0.031 ppb	0.493 ppb	3.921 ppb	-0.002 ppb	0.188 ppb	0.251 ppb	0.410 ppb	89.122 %
Concentration RSD	92.3 %	8.1 %	21.8 %	25.8 %	1,515.0 %	22.3 %	11.0 %	4.8 %	2.7 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.043 ppb	0.085 ppb	0.031 ppb	0.190 ppb	87.510 %	0.001 ppb	0.002 ppb	87.228 %	0.245 ppb
Concentration per Run 1	0.024 ppb	0.132 ppb	0.033 ppb	0.133 ppb	87.264 %	0.001 ppb	0.001 ppb	88.483 %	0.214 ppb
Concentration per Run 2	0.028 ppb	0.042 ppb	0.027 ppb	0.187 ppb	88.095 %	0.001 ppb	0.003 ppb	83.918 %	0.254 ppb
Concentration per Run 3	0.077 ppb	0.082 ppb	0.033 ppb	0.251 ppb	87.172 %	0.002 ppb	0.003 ppb	89.284 %	0.268 ppb
Concentration RSD	67.5 %	52.9 %	10.9 %	31.1 %	0.6 %	77.7 %	35.3 %	3.3 %	11.6 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	0.012 ppb	91.415 %	92.292 %	0.085 ppb	0.036 ppb
Concentration per Run 1	0.008 ppb	90.791 %	92.657 %	0.062 ppb	0.039 ppb
Concentration per Run 2	0.020 ppb	90.440 %	89.156 %	0.096 ppb	0.037 ppb
Concentration per Run 3	0.008 ppb	93.015 %	95.062 %	0.095 ppb	0.032 ppb
Concentration RSD	56.7 %	1.5 %	3.2 %	22.8 %	9.8 %

Alpha ICPMSQ Data with SRD

3/5/2024 4:47:09 PM

Analysis index:	57	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	WG1890419-2d20 6020TL	Rack	1		
Analysis started at:	3/5/2024 9:54:59 AM	Vial	37		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	82.081 %	89.295 %	2.593 ppb	511.579 ppb	498.035 ppb	103.111 ppb	510.520 ppb	432.403 ppb	80.631 %
Concentration per Run 1	82.863 %	85.773 %	2.614 ppb	531.502 ppb	504.423 ppb	110.185 ppb	537.701 ppb	448.438 ppb	80.712 %
Concentration per Run 2	83.126 %	92.196 %	2.592 ppb	492.606 ppb	485.209 ppb	100.300 ppb	518.992 ppb	439.274 ppb	81.358 %
Concentration per Run 3	80.254 %	89.917 %	2.574 ppb	510.630 ppb	504.473 ppb	98.848 ppb	474.866 ppb	409.496 ppb	79.825 %
Concentration RSD	1.9 %	3.6 %	0.8 %	3.8 %	2.2 %	6.0 %	6.3 %	4.7 %	1.0 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	25.240 ppb	10.306 ppb	25.398 ppb	53.499 ppb	25.775 ppb	26.313 ppb	12.993 ppb	25.690 ppb	87.245 %
Concentration per Run 1	25.301 ppb	10.364 ppb	25.854 ppb	56.754 ppb	26.144 ppb	26.681 ppb	13.178 ppb	25.210 ppb	87.070 %
Concentration per Run 2	25.499 ppb	10.270 ppb	24.399 ppb	53.757 ppb	26.122 ppb	26.179 ppb	13.183 ppb	26.128 ppb	85.957 %
Concentration per Run 3	24.920 ppb	10.283 ppb	25.942 ppb	49.986 ppb	25.059 ppb	26.079 ppb	12.619 ppb	25.732 ppb	88.707 %
Concentration RSD	1.2 %	0.5 %	3.4 %	6.3 %	2.4 %	1.2 %	2.5 %	1.8 %	1.6 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	6.211 ppb	6.368 ppb	49.570 ppb	47.849 ppb	87.209 %	2.585 ppb	2.714 ppb	86.750 %	18.969 ppb
Concentration per Run 1	5.904 ppb	5.620 ppb	49.974 ppb	47.112 ppb	86.886 %	2.568 ppb	2.684 ppb	85.382 %	18.929 ppb
Concentration per Run 2	6.378 ppb	6.633 ppb	49.639 ppb	48.433 ppb	87.172 %	2.620 ppb	2.773 ppb	87.570 %	18.834 ppb
Concentration per Run 3	6.352 ppb	6.852 ppb	49.097 ppb	48.000 ppb	87.567 %	2.567 ppb	2.686 ppb	87.299 %	19.145 ppb
Concentration RSD	4.3 %	10.3 %	0.9 %	1.4 %	0.4 %	1.2 %	1.9 %	1.4 %	0.8 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	104.585 ppb	92.173 %	93.564 %	5.913 ppb	27.233 ppb
Concentration per Run 1	106.161 ppb	90.252 %	90.974 %	5.946 ppb	27.866 ppb
Concentration per Run 2	105.955 ppb	93.468 %	93.570 %	5.959 ppb	27.325 ppb
Concentration per Run 3	101.639 ppb	92.800 %	96.148 %	5.834 ppb	26.507 ppb
Concentration RSD	2.4 %	1.8 %	2.8 %	1.2 %	2.5 %

Alpha ICPMSQ Data with SRD

3/5/2024 4:47:09 PM

Analysis index:	58	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	WG1890897-2d5 6020SL	Rack	1		
Analysis started at:	3/5/2024 10:03:46 AM	Vial	58		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	81.927 %	91.851 %	10.518 ppb	1,961.321 ppb	1,929.745 ppb	382.989 ppb	1,943.485 ppb	1,702.220 ppb	82.993 %
Concentration per Run 1	83.363 %	91.989 %	10.436 ppb	1,987.300 ppb	1,959.398 ppb	381.942 ppb	2,007.919 ppb	1,743.676 ppb	82.715 %
Concentration per Run 2	82.306 %	97.583 %	10.465 ppb	1,896.797 ppb	1,882.488 ppb	373.077 ppb	1,889.004 ppb	1,689.622 ppb	83.745 %
Concentration per Run 3	80.113 %	85.981 %	10.654 ppb	1,999.867 ppb	1,947.350 ppb	393.948 ppb	1,933.533 ppb	1,673.363 ppb	82.520 %
Concentration RSD	2.0 %	6.3 %	1.1 %	2.9 %	2.1 %	2.7 %	3.1 %	2.2 %	0.8 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	98.480 ppb	40.082 ppb	101.813 ppb	204.391 ppb	100.683 ppb	102.460 ppb	51.157 ppb	100.369 ppb	85.395 %
Concentration per Run 1	101.098 ppb	40.112 ppb	103.463 ppb	209.417 ppb	101.498 ppb	103.645 ppb	51.718 ppb	100.291 ppb	85.026 %
Concentration per Run 2	96.661 ppb	39.627 ppb	97.922 ppb	198.035 ppb	98.854 ppb	101.297 ppb	50.217 ppb	99.879 ppb	86.859 %
Concentration per Run 3	97.681 ppb	40.507 ppb	104.055 ppb	205.722 ppb	101.697 ppb	102.438 ppb	51.536 ppb	100.936 ppb	84.299 %
Concentration RSD	2.4 %	1.1 %	3.3 %	2.8 %	1.6 %	1.1 %	1.6 %	0.5 %	1.5 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	24.172 ppb	24.229 ppb	197.612 ppb	202.321 ppb	85.362 %	10.304 ppb	11.108 ppb	84.406 %	92.167 ppb
Concentration per Run 1	24.489 ppb	26.141 ppb	201.719 ppb	205.245 ppb	84.712 %	10.652 ppb	11.346 ppb	85.042 %	92.813 ppb
Concentration per Run 2	24.315 ppb	23.493 ppb	199.339 ppb	204.063 ppb	86.474 %	10.128 ppb	11.002 ppb	84.802 %	92.250 ppb
Concentration per Run 3	23.713 ppb	23.054 ppb	191.779 ppb	197.655 ppb	84.899 %	10.133 ppb	10.976 ppb	83.376 %	91.439 ppb
Concentration RSD	1.7 %	6.9 %	2.6 %	2.0 %	1.1 %	2.9 %	1.9 %	1.1 %	0.7 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	415.155 ppb	90.915 %	92.051 %	24.032 ppb	112.466 ppb
Concentration per Run 1	425.181 ppb	91.090 %	91.500 %	24.296 ppb	114.153 ppb
Concentration per Run 2	419.563 ppb	91.655 %	94.594 %	23.432 ppb	109.327 ppb
Concentration per Run 3	400.721 ppb	90.001 %	90.058 %	24.367 ppb	113.918 ppb
Concentration RSD	3.1 %	0.9 %	2.5 %	2.2 %	2.4 %

Alpha ICPMSQ Data with SRD

3/5/2024 4:47:09 PM

Analysis index:	59	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	WG1890419-3d20 6020TL	Rack	1		
Analysis started at:	3/5/2024 10:08:23 AM	Vial	39		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	79.347 %	89.779 %	2.779 ppb	9,843.603 ppb	1,189.349 ppb	107.358 ppb	913.985 ppb	4,764.076 ppb	81.705 %
Concentration per Run 1	82.139 %	83.080 %	2.732 ppb	11,041.388 ppb	1,356.641 ppb	127.064 ppb	1,055.777 ppb	5,391.055 ppb	83.883 %
Concentration per Run 2	79.724 %	94.061 %	2.756 ppb	9,546.671 ppb	1,151.952 ppb	100.148 ppb	875.882 ppb	4,539.903 ppb	82.182 %
Concentration per Run 3	76.177 %	92.196 %	2.850 ppb	8,942.751 ppb	1,059.455 ppb	94.863 ppb	810.297 ppb	4,361.271 ppb	79.050 %
Concentration RSD	3.8 %	6.5 %	2.2 %	11.0 %	12.8 %	16.1 %	13.9 %	11.6 %	3.0 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	25.427 ppb	10.191 ppb	34.089 ppb	58.407 ppb	25.830 ppb	26.401 ppb	13.374 ppb	26.034 ppb	87.670 %
Concentration per Run 1	27.690 ppb	10.619 ppb	36.924 ppb	59.901 ppb	26.566 ppb	27.376 ppb	13.492 ppb	27.554 ppb	90.334 %
Concentration per Run 2	25.234 ppb	10.266 ppb	34.653 ppb	60.048 ppb	26.006 ppb	26.898 ppb	14.144 ppb	26.578 ppb	85.990 %
Concentration per Run 3	23.358 ppb	9.689 ppb	30.689 ppb	55.272 ppb	24.918 ppb	24.928 ppb	12.486 ppb	23.969 ppb	86.686 %
Concentration RSD	8.5 %	4.6 %	9.3 %	4.7 %	3.2 %	4.9 %	6.2 %	7.1 %	2.7 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	6.159 ppb	7.104 ppb	64.622 ppb	52.077 ppb	85.044 %	2.540 ppb	2.787 ppb	90.054 %	25.662 ppb
Concentration per Run 1	6.321 ppb	7.092 ppb	69.148 ppb	52.350 ppb	84.633 %	2.577 ppb	2.857 ppb	93.050 %	26.599 ppb
Concentration per Run 2	6.263 ppb	7.653 ppb	66.762 ppb	53.673 ppb	81.230 %	2.703 ppb	2.993 ppb	82.789 %	27.576 ppb
Concentration per Run 3	5.894 ppb	6.566 ppb	57.956 ppb	50.208 ppb	89.269 %	2.339 ppb	2.512 ppb	94.325 %	22.809 ppb
Concentration RSD	3.8 %	7.7 %	9.1 %	3.4 %	4.7 %	7.3 %	8.9 %	7.0 %	9.8 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	110.719 ppb	91.349 %	94.651 %	6.005 ppb	27.479 ppb
Concentration per Run 1	118.311 ppb	92.787 %	97.342 %	5.978 ppb	27.239 ppb
Concentration per Run 2	116.845 ppb	83.822 %	86.612 %	6.474 ppb	29.800 ppb
Concentration per Run 3	97.002 ppb	97.438 %	100.000 %	5.564 ppb	25.397 ppb
Concentration RSD	10.7 %	7.6 %	7.5 %	7.6 %	8.0 %

Alpha ICPMSQ Data with SRD

3/5/2024 4:47:09 PM

Analysis index:	60	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	WG1890419-4d20 6020TL	Rack	1		
Analysis started at:	3/5/2024 10:13:00 AM	Vial	40		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	81.834 %	91.920 %	2.674 ppb	9,544.071 ppb	1,133.289 ppb	107.454 ppb	903.404 ppb	4,781.916 ppb	81.937 %
Concentration per Run 1	83.919 %	98.204 %	2.644 ppb	8,954.341 ppb	1,071.164 ppb	102.425 ppb	893.384 ppb	4,756.725 ppb	84.003 %
Concentration per Run 2	80.869 %	89.503 %	2.734 ppb	9,734.645 ppb	1,123.236 ppb	105.653 ppb	934.704 ppb	4,887.353 ppb	80.053 %
Concentration per Run 3	80.714 %	88.052 %	2.645 ppb	9,943.227 ppb	1,205.466 ppb	114.284 ppb	882.123 ppb	4,701.669 ppb	81.753 %
Concentration RSD	2.2 %	6.0 %	1.9 %	5.5 %	6.0 %	5.7 %	3.1 %	2.0 %	2.4 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	24.993 ppb	10.025 ppb	33.606 ppb	61.377 ppb	25.224 ppb	25.618 ppb	13.239 ppb	25.284 ppb	89.084 %
Concentration per Run 1	24.917 ppb	9.833 ppb	33.862 ppb	52.595 ppb	24.750 ppb	25.772 ppb	12.982 ppb	24.619 ppb	90.550 %
Concentration per Run 2	25.447 ppb	9.863 ppb	32.500 ppb	62.648 ppb	25.268 ppb	25.489 ppb	13.326 ppb	25.321 ppb	87.278 %
Concentration per Run 3	24.616 ppb	10.380 ppb	34.456 ppb	68.888 ppb	25.656 ppb	25.595 ppb	13.408 ppb	25.912 ppb	89.423 %
Concentration RSD	1.7 %	3.1 %	3.0 %	13.4 %	1.8 %	0.6 %	1.7 %	2.6 %	1.9 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	6.291 ppb	6.479 ppb	63.638 ppb	49.520 ppb	86.999 %	2.530 ppb	2.740 ppb	89.647 %	22.650 ppb
Concentration per Run 1	6.456 ppb	7.236 ppb	64.424 ppb	47.896 ppb	88.369 %	2.481 ppb	2.727 ppb	90.682 %	22.725 ppb
Concentration per Run 2	6.265 ppb	6.156 ppb	63.616 ppb	50.517 ppb	87.045 %	2.487 ppb	2.670 ppb	89.328 %	22.496 ppb
Concentration per Run 3	6.152 ppb	6.044 ppb	62.874 ppb	50.145 ppb	85.585 %	2.621 ppb	2.823 ppb	88.929 %	22.730 ppb
Concentration RSD	2.4 %	10.2 %	1.2 %	2.9 %	1.6 %	3.1 %	2.8 %	1.0 %	0.6 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	109.653 ppb	93.756 %	94.604 %	5.936 ppb	27.220 ppb
Concentration per Run 1	109.932 ppb	93.889 %	94.825 %	5.897 ppb	27.357 ppb
Concentration per Run 2	109.801 ppb	94.681 %	94.091 %	5.997 ppb	27.159 ppb
Concentration per Run 3	109.227 ppb	92.699 %	94.894 %	5.915 ppb	27.142 ppb
Concentration RSD	0.3 %	1.1 %	0.5 %	0.9 %	0.4 %

Alpha ICPMSQ Data with SRD

3/5/2024 4:47:09 PM

Analysis index: 61
Analysis label: WG1890419-5d10 6020TL
Analysis started at: 3/5/2024 10:17:37 AM
User name ALPHALAB\Metals-Instrument
Rack 1
Vial 41
Comment <Comment>

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	78.433 %	85.083 %	49.599 ppb	24,638.440 ppb	6,329.360 ppb	64.195 ppb	5,623.207 ppb	13,593.777 ppb	84.609 %
Concentration per Run 1	79.337 %	89.088 %	49.245 ppb	25,632.143 ppb	6,572.606 ppb	67.183 ppb	5,848.241 ppb	14,122.011 ppb	84.964 %
Concentration per Run 2	79.525 %	85.773 %	49.703 ppb	24,074.134 ppb	6,127.425 ppb	62.439 ppb	5,525.795 ppb	13,322.041 ppb	86.359 %
Concentration per Run 3	76.437 %	80.387 %	49.850 ppb	24,209.043 ppb	6,288.049 ppb	62.963 ppb	5,495.584 ppb	13,337.280 ppb	82.503 %
Concentration RSD	2.2 %	5.2 %	0.6 %	3.5 %	3.6 %	4.1 %	3.5 %	3.4 %	2.3 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	49.097 ppb	48.980 ppb	64.557 ppb	4,712.495 ppb	48.197 ppb	48.588 ppb	47.771 ppb	47.628 ppb	86.882 %
Concentration per Run 1	48.379 ppb	48.666 ppb	66.004 ppb	4,684.319 ppb	47.363 ppb	47.513 ppb	46.261 ppb	46.875 ppb	92.242 %
Concentration per Run 2	49.645 ppb	48.603 ppb	63.750 ppb	4,713.183 ppb	48.449 ppb	49.057 ppb	48.444 ppb	47.087 ppb	85.877 %
Concentration per Run 3	49.268 ppb	49.672 ppb	63.916 ppb	4,739.983 ppb	48.779 ppb	49.193 ppb	48.607 ppb	48.923 ppb	82.528 %
Concentration RSD	1.3 %	1.2 %	1.9 %	0.6 %	1.5 %	1.9 %	2.7 %	2.4 %	5.7 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	48.263 ppb	49.869 ppb	77.936 ppb	49.274 ppb	83.902 %	0.512 ppb	49.254 ppb	86.372 %	50.982 ppb
Concentration per Run 1	48.407 ppb	50.834 ppb	80.724 ppb	47.224 ppb	87.826 %	0.507 ppb	48.102 ppb	96.754 %	48.749 ppb
Concentration per Run 2	48.236 ppb	51.409 ppb	78.527 ppb	50.273 ppb	82.030 %	0.495 ppb	50.437 ppb	82.410 %	53.486 ppb
Concentration per Run 3	48.147 ppb	47.364 ppb	74.557 ppb	50.325 ppb	81.850 %	0.533 ppb	49.223 ppb	79.953 %	50.710 ppb
Concentration RSD	0.3 %	4.4 %	4.0 %	3.6 %	4.1 %	3.8 %	2.4 %	10.5 %	4.7 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	62.174 ppb	91.790 %	93.732 %	45.596 ppb	48.639 ppb
Concentration per Run 1	61.147 ppb	97.079 %	102.144 %	41.406 ppb	45.279 ppb
Concentration per Run 2	63.318 ppb	89.620 %	91.486 %	46.496 ppb	49.682 ppb
Concentration per Run 3	62.058 ppb	88.671 %	87.565 %	48.886 ppb	50.955 ppb
Concentration RSD	1.8 %	5.0 %	8.0 %	8.4 %	6.1 %

Alpha ICPMSQ Data with SRD

3/5/2024 4:47:09 PM

Analysis index:	62	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	I2410453-06 6020TL	Rack	1		
Analysis started at:	3/5/2024 10:22:15 AM	Vial	38		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	78.570 %	85.083 %	0.026 ppb	192,081.818 ppb	12,986.120 ppb	113.034 ppb	8,091.964 ppb	86,491.417 ppb	87.450 %
Concentration per Run 1	79.546 %	90.539 %	0.035 ppb	187,513.657 ppb	12,808.809 ppb	119.253 ppb	8,155.847 ppb	88,606.488 ppb	87.052 %
Concentration per Run 2	78.784 %	83.494 %	0.024 ppb	199,739.053 ppb	13,408.694 ppb	109.486 ppb	8,200.126 ppb	86,678.034 ppb	88.605 %
Concentration per Run 3	77.381 %	81.215 %	0.019 ppb	188,992.743 ppb	12,740.856 ppb	110.362 ppb	7,919.919 ppb	84,189.731 ppb	86.693 %
Concentration RSD	1.4 %	5.7 %	32.8 %	3.5 %	2.8 %	4.8 %	1.9 %	2.6 %	1.2 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.853 ppb	0.695 ppb	157.718 ppb	185.350 ppb	0.446 ppb	1.414 ppb	1.766 ppb	2.078 ppb	85.544 %
Concentration per Run 1	0.875 ppb	0.683 ppb	157.768 ppb	188.180 ppb	0.417 ppb	1.400 ppb	1.858 ppb	2.034 ppb	90.570 %
Concentration per Run 2	0.952 ppb	0.718 ppb	163.351 ppb	187.659 ppb	0.453 ppb	1.478 ppb	1.689 ppb	1.993 ppb	83.371 %
Concentration per Run 3	0.731 ppb	0.683 ppb	152.035 ppb	180.211 ppb	0.467 ppb	1.363 ppb	1.752 ppb	2.207 ppb	82.692 %
Concentration RSD	13.1 %	2.9 %	3.6 %	2.4 %	5.8 %	4.1 %	4.9 %	5.5 %	5.1 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.512 ppb	1.921 ppb	280.185 ppb	2.516 ppb	79.926 %	0.017 ppb	0.038 ppb	85.154 %	1.020 ppb
Concentration per Run 1	0.592 ppb	1.765 ppb	293.135 ppb	2.575 ppb	81.140 %	0.015 ppb	0.039 ppb	91.730 %	0.963 ppb
Concentration per Run 2	0.434 ppb	1.907 ppb	279.221 ppb	2.356 ppb	80.965 %	0.019 ppb	0.031 ppb	84.851 %	1.059 ppb
Concentration per Run 3	0.510 ppb	2.092 ppb	268.200 ppb	2.618 ppb	77.673 %	0.016 ppb	0.045 ppb	78.879 %	1.038 ppb
Concentration RSD	15.4 %	8.5 %	4.5 %	5.6 %	2.4 %	12.5 %	17.8 %	7.6 %	5.0 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	120.486 ppb	90.810 %	92.048 %	0.425 ppb	0.199 ppb
Concentration per Run 1	125.635 ppb	93.520 %	97.022 %	0.364 ppb	0.194 ppb
Concentration per Run 2	119.102 ppb	90.738 %	91.841 %	0.502 ppb	0.198 ppb
Concentration per Run 3	116.721 ppb	88.174 %	87.279 %	0.409 ppb	0.204 ppb
Concentration RSD	3.8 %	2.9 %	5.3 %	16.6 %	2.6 %

Alpha ICPMSQ Data with SRD

3/5/2024 4:47:09 PM

Analysis index:	63	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	L2410731-10 6020SL	Rack	1		
Analysis started at:	3/5/2024 10:26:52 AM	Vial	16		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	81.120 %	85.773 %	0.009 ppb	421,124.044 ppb	1,161.681 ppb	3.680 ppb	10,566.956 ppb	98,375.247 ppb	92.245 %
Concentration per Run 1	82.412 %	87.016 %	0.005 ppb	427,360.950 ppb	1,212.892 ppb	4.491 ppb	11,122.886 ppb	103,135.128 ppb	91.920 %
Concentration per Run 2	81.607 %	83.494 %	0.012 ppb	431,161.776 ppb	1,150.433 ppb	4.386 ppb	10,837.186 ppb	100,698.199 ppb	92.890 %
Concentration per Run 3	79.341 %	86.809 %	0.010 ppb	404,849.406 ppb	1,121.718 ppb	2.163 ppb	9,740.796 ppb	91,292.415 ppb	91.925 %
Concentration RSD	2.0 %	2.3 %	42.9 %	3.4 %	4.0 %	35.7 %	6.9 %	6.4 %	0.6 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	1.583 ppb	12.404 ppb	0.024 ppb	31.890 ppb	0.091 ppb	0.328 ppb	1.991 ppb	0.392 ppb	87.538 %
Concentration per Run 1	1.463 ppb	12.429 ppb	0.059 ppb	36.190 ppb	0.094 ppb	0.242 ppb	2.052 ppb	0.424 ppb	91.422 %
Concentration per Run 2	1.830 ppb	12.848 ppb	0.036 ppb	36.414 ppb	0.085 ppb	0.391 ppb	1.909 ppb	0.440 ppb	85.402 %
Concentration per Run 3	1.457 ppb	11.937 ppb	-0.023 ppb	23.066 ppb	0.094 ppb	0.352 ppb	2.012 ppb	0.312 ppb	85.789 %
Concentration RSD	13.5 %	3.7 %	175.1 %	24.0 %	5.8 %	23.6 %	3.7 %	17.8 %	3.8 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.955 ppb	0.132 ppb	235.105 ppb	2.301 ppb	82.467 %	0.003 ppb	0.003 ppb	85.217 %	1.138 ppb
Concentration per Run 1	1.010 ppb	0.176 ppb	243.646 ppb	2.214 ppb	83.925 %	0.002 ppb	0.003 ppb	89.868 %	1.095 ppb
Concentration per Run 2	0.946 ppb	0.134 ppb	237.224 ppb	2.291 ppb	82.936 %	0.004 ppb	0.004 ppb	86.592 %	1.125 ppb
Concentration per Run 3	0.911 ppb	0.086 ppb	224.444 ppb	2.399 ppb	80.541 %	0.002 ppb	0.003 ppb	79.192 %	1.194 ppb
Concentration RSD	5.3 %	34.1 %	4.2 %	4.0 %	2.1 %	52.2 %	23.8 %	6.4 %	4.5 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	36.936 ppb	90.443 %	91.586 %	0.137 ppb	0.073 ppb
Concentration per Run 1	39.240 ppb	89.926 %	93.235 %	0.095 ppb	0.065 ppb
Concentration per Run 2	35.379 ppb	91.676 %	93.065 %	0.161 ppb	0.073 ppb
Concentration per Run 3	36.188 ppb	89.728 %	88.458 %	0.154 ppb	0.080 ppb
Concentration RSD	5.5 %	1.2 %	3.0 %	26.3 %	10.2 %

Alpha ICPMSQ Data with SRD

3/5/2024 4:47:09 PM

Analysis index:	64	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	I2410403-01 6020TL	Rack	1		
Analysis started at:	3/5/2024 10:31:29 AM	Vial	43		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	84.747 %	96.133 %	0.040 ppb	11,565.391 ppb	1,852.656 ppb	221.905 ppb	987.254 ppb	11,463.975 ppb	84.931 %
Concentration per Run 1	86.717 %	99.862 %	0.033 ppb	11,613.371 ppb	1,855.469 ppb	224.025 ppb	1,018.788 ppb	11,452.704 ppb	85.926 %
Concentration per Run 2	84.432 %	96.133 %	0.054 ppb	11,410.031 ppb	1,831.934 ppb	225.446 ppb	988.791 ppb	11,578.084 ppb	84.578 %
Concentration per Run 3	83.092 %	92.403 %	0.034 ppb	11,672.772 ppb	1,870.564 ppb	216.242 ppb	954.183 ppb	11,361.137 ppb	84.290 %
Concentration RSD	2.2 %	3.9 %	29.7 %	1.2 %	1.1 %	2.2 %	3.3 %	1.0 %	1.0 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	5.887 ppb	0.330 ppb	84.588 ppb	284.474 ppb	0.115 ppb	0.260 ppb	1.243 ppb	3.361 ppb	89.114 %
Concentration per Run 1	5.869 ppb	0.270 ppb	85.405 ppb	278.474 ppb	0.125 ppb	0.263 ppb	1.356 ppb	3.338 ppb	91.923 %
Concentration per Run 2	6.117 ppb	0.369 ppb	83.931 ppb	286.848 ppb	0.099 ppb	0.272 ppb	1.201 ppb	3.312 ppb	91.794 %
Concentration per Run 3	5.674 ppb	0.352 ppb	84.427 ppb	288.101 ppb	0.122 ppb	0.246 ppb	1.172 ppb	3.434 ppb	83.624 %
Concentration RSD	3.8 %	16.1 %	0.9 %	1.8 %	12.2 %	5.0 %	8.0 %	1.9 %	5.3 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.558 ppb	0.708 ppb	65.774 ppb	0.473 ppb	87.920 %	0.007 ppb	5.452 ppb	89.967 %	0.414 ppb
Concentration per Run 1	0.445 ppb	0.769 ppb	65.874 ppb	0.427 ppb	91.586 %	0.006 ppb	5.304 ppb	95.304 %	0.368 ppb
Concentration per Run 2	0.592 ppb	0.764 ppb	67.008 ppb	0.438 ppb	86.698 %	0.008 ppb	5.609 ppb	90.175 %	0.433 ppb
Concentration per Run 3	0.636 ppb	0.592 ppb	64.440 ppb	0.552 ppb	85.474 %	0.008 ppb	5.444 ppb	84.422 %	0.440 ppb
Concentration RSD	18.0 %	14.2 %	2.0 %	14.6 %	3.7 %	11.6 %	2.8 %	6.1 %	9.6 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	18.297 ppb	91.568 %	92.530 %	0.146 ppb	0.450 ppb
Concentration per Run 1	17.427 ppb	94.639 %	96.383 %	0.107 ppb	0.441 ppb
Concentration per Run 2	18.477 ppb	90.831 %	91.676 %	0.163 ppb	0.464 ppb
Concentration per Run 3	18.988 ppb	89.234 %	89.529 %	0.168 ppb	0.445 ppb
Concentration RSD	4.3 %	3.0 %	3.8 %	23.1 %	2.7 %

Alpha ICPMSQ Data with SRD

3/5/2024 4:47:09 PM

Analysis index:	65	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	WG1890897-6d5 6020SL	Rack	1		
Analysis started at:	3/5/2024 10:36:07 AM	Vial	31		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	84.356 %	92.127 %	0.009 ppb	27,331.430 ppb	8,716.780 ppb	1.346 ppb	840.583 ppb	5,624.920 ppb	86.752 %
Concentration per Run 1	85.327 %	88.467 %	0.010 ppb	28,644.484 ppb	9,058.144 ppb	1.654 ppb	848.716 ppb	5,793.152 ppb	87.252 %
Concentration per Run 2	84.574 %	89.710 %	0.012 ppb	27,342.353 ppb	8,702.408 ppb	1.564 ppb	865.752 ppb	5,661.032 ppb	87.192 %
Concentration per Run 3	83.166 %	98.204 %	0.006 ppb	26,007.454 ppb	8,389.788 ppb	0.819 ppb	807.281 ppb	5,420.576 ppb	85.810 %
Concentration RSD	1.3 %	5.8 %	34.8 %	4.8 %	3.8 %	34.1 %	3.6 %	3.4 %	0.9 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.187 ppb	0.234 ppb	29.110 ppb	5.993 ppb	0.073 ppb	3.908 ppb	0.161 ppb	0.368 ppb	88.554 %
Concentration per Run 1	0.132 ppb	0.254 ppb	28.449 ppb	4.963 ppb	0.074 ppb	4.158 ppb	0.144 ppb	0.367 ppb	88.745 %
Concentration per Run 2	0.253 ppb	0.210 ppb	30.223 ppb	6.740 ppb	0.071 ppb	3.824 ppb	0.161 ppb	0.346 ppb	86.178 %
Concentration per Run 3	0.177 ppb	0.238 ppb	28.658 ppb	6.278 ppb	0.074 ppb	3.742 ppb	0.179 ppb	0.390 ppb	90.738 %
Concentration RSD	32.6 %	9.5 %	3.3 %	15.4 %	2.1 %	5.6 %	10.7 %	5.9 %	2.6 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.079 ppb	0.641 ppb	15.357 ppb	1.014 ppb	85.045 %	0.006 ppb	0.032 ppb	87.594 %	0.291 ppb
Concentration per Run 1	0.061 ppb	0.856 ppb	15.540 ppb	1.052 ppb	84.739 %	0.008 ppb	0.022 ppb	89.217 %	0.259 ppb
Concentration per Run 2	0.099 ppb	0.643 ppb	14.980 ppb	0.969 ppb	83.914 %	0.007 ppb	0.029 ppb	82.894 %	0.303 ppb
Concentration per Run 3	0.076 ppb	0.424 ppb	15.552 ppb	1.022 ppb	86.481 %	0.003 ppb	0.045 ppb	90.670 %	0.312 ppb
Concentration RSD	24.8 %	33.6 %	2.1 %	4.2 %	1.5 %	41.6 %	36.5 %	4.7 %	9.7 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	18.421 ppb	92.854 %	92.028 %	0.056 ppb	0.047 ppb
Concentration per Run 1	18.364 ppb	94.114 %	92.544 %	0.034 ppb	0.050 ppb
Concentration per Run 2	18.291 ppb	90.830 %	88.764 %	0.068 ppb	0.045 ppb
Concentration per Run 3	18.607 ppb	93.617 %	94.777 %	0.066 ppb	0.045 ppb
Concentration RSD	0.9 %	1.9 %	3.3 %	34.5 %	6.1 %

Alpha ICPMSQ Data with SRD

3/5/2024 4:47:09 PM

Analysis index:	66	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	CCV	Rack	0		
Analysis started at:	3/5/2024 10:40:45 AM	Vial	9		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	80.020 %	88.398 %	60.912 ppb	5,814.694 ppb	5,881.329 ppb	57.763 ppb	5,723.732 ppb	5,837.865 ppb	91.239 %
Concentration per Run 1	80.817 %	94.268 %	61.641 ppb	5,680.490 ppb	5,826.176 ppb	58.835 ppb	5,621.704 ppb	5,780.813 ppb	91.837 %
Concentration per Run 2	80.219 %	83.287 %	60.637 ppb	5,900.961 ppb	5,911.746 ppb	57.069 ppb	5,680.870 ppb	5,900.398 ppb	91.406 %
Concentration per Run 3	79.023 %	87.638 %	60.457 ppb	5,862.632 ppb	5,906.065 ppb	57.385 ppb	5,868.623 ppb	5,832.385 ppb	90.473 %
Recovery Percentage 1			101.520 %	96.912 %	98.022 %	96.272 %	95.396 %	97.298 %	
Concentration RSD	1.1 %	6.3 %	1.0 %	2.0 %	0.8 %	1.6 %	2.3 %	1.0 %	0.8 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	58.956 ppb	59.296 ppb	59.538 ppb	5,702.212 ppb	59.410 ppb	61.109 ppb	60.021 ppb	59.271 ppb	86.315 %
Concentration per Run 1	57.272 ppb	57.060 ppb	58.172 ppb	5,487.826 ppb	57.898 ppb	58.830 ppb	58.476 ppb	57.884 ppb	90.053 %
Concentration per Run 2	60.105 ppb	61.430 ppb	59.836 ppb	5,795.681 ppb	61.392 ppb	62.136 ppb	61.121 ppb	60.399 ppb	82.203 %
Concentration per Run 3	59.491 ppb	59.399 ppb	60.605 ppb	5,823.128 ppb	58.939 ppb	62.363 ppb	60.467 ppb	59.529 ppb	86.691 %
Recovery Percentage 1	98.260 %	98.827 %	99.229 %	95.037 %	99.016 %	101.849 %	100.035 %	98.785 %	
Concentration RSD	2.5 %	3.7 %	2.1 %	3.3 %	3.0 %	3.2 %	2.3 %	2.2 %	4.6 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	59.309 ppb	61.638 ppb	58.945 ppb	57.979 ppb	84.932 %	61.272 ppb	62.414 ppb	84.380 %	55.639 ppb
Concentration per Run 1	57.679 ppb	62.057 ppb	59.132 ppb	56.191 ppb	86.556 %	61.837 ppb	63.615 ppb	85.234 %	56.651 ppb
Concentration per Run 2	60.288 ppb	62.613 ppb	57.915 ppb	58.607 ppb	82.066 %	61.865 ppb	62.772 ppb	79.650 %	55.906 ppb
Concentration per Run 3	59.961 ppb	60.243 ppb	59.788 ppb	59.138 ppb	86.175 %	60.116 ppb	60.854 ppb	88.256 %	54.360 ppb
Recovery Percentage 1	98.849 %	102.729 %	98.241 %	96.632 %		102.121 %	104.023 %		92.732 %
Concentration RSD	2.4 %	2.0 %	1.6 %	2.7 %	2.9 %	1.6 %	2.3 %	5.2 %	2.1 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	60.154 ppb	90.991 %	90.493 %	62.026 ppb	61.668 ppb
Concentration per Run 1	59.093 ppb	92.406 %	93.120 %	60.307 ppb	60.707 ppb
Concentration per Run 2	60.725 ppb	86.017 %	84.456 %	64.621 ppb	64.191 ppb
Concentration per Run 3	60.644 ppb	94.549 %	93.903 %	61.150 ppb	60.107 ppb
Recovery Percentage 1	100.257 %			103.377 %	102.780 %
Concentration RSD	1.5 %	4.9 %	5.8 %	3.7 %	3.6 %

Alpha ICPMSQ Data with SRD

3/5/2024 4:47:09 PM

Analysis index: 67
Analysis label: CCB
Analysis started at: 3/5/2024 10:45:27 AM
User name ALPHALAB\Metals-Instrument
Rack 0
Vial 10
Comment <Comment>

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	79.228 %	83.563 %	0.014 ppb	4.969 ppb	-0.499 ppb	-0.375 ppb	0.673 ppb	-2.382 ppb	78.258 %
Concentration per Run 1	79.017 %	79.765 %	0.007 ppb	7.370 ppb	-0.309 ppb	-0.244 ppb	-0.594 ppb	-3.860 ppb	77.930 %
Concentration per Run 2	79.767 %	93.439 %	0.014 ppb	0.817 ppb	-0.362 ppb	-0.642 ppb	-0.644 ppb	-0.954 ppb	78.439 %
Concentration per Run 3	78.900 %	77.486 %	0.020 ppb	6.721 ppb	-0.826 ppb	-0.238 ppb	3.258 ppb	-2.331 ppb	78.406 %
Recovery Percentage 1			2.735 %	4.969 %	-0.713 %	-3.747 %	0.673 %	-2.382 %	
Concentration RSD	0.6 %	10.3 %	46.1 %	72.7 %	56.9 %	61.9 %	332.5 %	61.0 %	0.4 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.011 ppb	-0.001 ppb	0.033 ppb	12.947 ppb	0.002 ppb	0.003 ppb	0.012 ppb	0.077 ppb	81.140 %
Concentration per Run 1	-0.006 ppb	-0.010 ppb	0.009 ppb	15.138 ppb	0.004 ppb	-0.009 ppb	0.028 ppb	0.057 ppb	81.527 %
Concentration per Run 2	0.010 ppb	0.003 ppb	0.068 ppb	13.189 ppb	0.002 ppb	0.005 ppb	0.011 ppb	0.104 ppb	78.185 %
Concentration per Run 3	0.028 ppb	0.004 ppb	0.023 ppb	10.513 ppb	0.000 ppb	0.012 ppb	-0.004 ppb	0.069 ppb	83.708 %
Recovery Percentage 1	0.213 %	-0.116 %	3.345 %	25.893 %	0.377 %	0.139 %	1.163 %	1.538 %	
Concentration RSD	158.0 %	651.0 %	92.6 %	17.9 %	110.8 %	373.3 %	139.2 %	31.8 %	3.4 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.075 ppb	0.355 ppb	-0.002 ppb	0.914 ppb	83.757 %	0.006 ppb	0.006 ppb	83.580 %	1.006 ppb
Concentration per Run 1	0.051 ppb	0.461 ppb	-0.003 ppb	0.900 ppb	84.674 %	0.008 ppb	0.007 ppb	84.069 %	1.002 ppb
Concentration per Run 2	0.076 ppb	0.370 ppb	-0.003 ppb	0.940 ppb	82.245 %	0.004 ppb	0.007 ppb	80.201 %	1.026 ppb
Concentration per Run 3	0.099 ppb	0.236 ppb	-0.001 ppb	0.900 ppb	84.352 %	0.005 ppb	0.004 ppb	86.470 %	0.989 ppb
Recovery Percentage 1	15.079 %	7.109 %	-0.022 %	45.679 %		1.405 %	2.965 %		25.140 %
Concentration RSD	31.9 %	31.9 %	50.3 %	2.5 %	1.6 %	41.8 %	28.5 %	3.8 %	1.9 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	0.002 ppb	87.349 %	87.355 %	0.420 ppb	0.042 ppb
Concentration per Run 1	0.003 ppb	87.888 %	88.346 %	0.371 ppb	0.047 ppb
Concentration per Run 2	0.010 ppb	86.260 %	84.541 %	0.494 ppb	0.041 ppb
Concentration per Run 3	-0.008 ppb	87.899 %	89.179 %	0.396 ppb	0.037 ppb
Recovery Percentage 1	0.313 %			42.042 %	4.172 %
Concentration RSD	586.2 %	1.1 %	2.8 %	15.5 %	12.4 %

Alpha ICPMSQ Data with SRD

3/5/2024 4:47:09 PM

Analysis index: 68
Analysis label: WG1890419-2d5 6020TL
Analysis started at: 3/5/2024 11:02:32 AM
User name ALPHALAB\Metals-Instrument
Rack 1
Vial 59
Comment <Comment>

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	84.211 %	94.959 %	10.309 ppb	1,903.869 ppb	1,899.736 ppb	380.469 ppb	1,863.922 ppb	1,694.609 ppb	83.450 %
Concentration per Run 1	84.510 %	97.583 %	10.343 ppb	1,849.578 ppb	1,832.271 ppb	373.106 ppb	1,768.806 ppb	1,607.960 ppb	82.912 %
Concentration per Run 2	84.099 %	95.718 %	10.270 ppb	1,848.511 ppb	1,862.647 ppb	373.252 ppb	1,853.599 ppb	1,689.928 ppb	83.545 %
Concentration per Run 3	84.023 %	91.575 %	10.314 ppb	2,013.518 ppb	2,004.291 ppb	395.048 ppb	1,969.362 ppb	1,785.939 ppb	83.892 %
Concentration RSD	0.3 %	3.2 %	0.4 %	5.0 %	4.8 %	3.3 %	5.4 %	5.3 %	0.6 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	96.531 ppb	39.834 ppb	101.908 ppb	212.261 ppb	100.441 ppb	102.093 ppb	50.417 ppb	100.565 ppb	85.539 %
Concentration per Run 1	95.280 ppb	38.311 ppb	98.624 ppb	208.380 ppb	99.471 ppb	100.750 ppb	49.564 ppb	98.681 ppb	86.971 %
Concentration per Run 2	97.828 ppb	40.461 ppb	101.386 ppb	214.849 ppb	100.265 ppb	102.914 ppb	50.552 ppb	100.656 ppb	85.132 %
Concentration per Run 3	96.485 ppb	40.729 ppb	105.715 ppb	213.554 ppb	101.587 ppb	102.615 ppb	51.134 ppb	102.357 ppb	84.513 %
Concentration RSD	1.3 %	3.3 %	3.5 %	1.6 %	1.1 %	1.1 %	1.6 %	1.8 %	1.5 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	24.885 ppb	25.097 ppb	200.716 ppb	204.032 ppb	85.351 %	10.324 ppb	11.015 ppb	84.950 %	92.631 ppb
Concentration per Run 1	24.279 ppb	24.082 ppb	194.789 ppb	201.043 ppb	86.173 %	10.060 ppb	11.105 ppb	85.763 %	91.917 ppb
Concentration per Run 2	24.613 ppb	24.542 ppb	200.129 ppb	202.074 ppb	85.946 %	10.288 ppb	10.805 ppb	85.924 %	91.166 ppb
Concentration per Run 3	25.764 ppb	26.668 ppb	207.230 ppb	208.978 ppb	83.933 %	10.625 ppb	11.136 ppb	83.163 %	94.808 ppb
Concentration RSD	3.1 %	5.5 %	3.1 %	2.1 %	1.4 %	2.8 %	1.7 %	1.8 %	2.1 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	418.815 ppb	91.860 %	94.025 %	23.871 ppb	110.538 ppb
Concentration per Run 1	414.156 ppb	92.553 %	94.037 %	23.870 ppb	110.607 ppb
Concentration per Run 2	416.988 ppb	92.657 %	93.817 %	24.015 ppb	110.591 ppb
Concentration per Run 3	425.300 ppb	90.369 %	94.221 %	23.728 ppb	110.416 ppb
Concentration RSD	1.4 %	1.4 %	0.2 %	0.6 %	0.1 %

Alpha ICPMSQ Data with SRD

3/5/2024 4:47:09 PM

Analysis index:	69	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	I2410403-02 6020TL	Rack	1		
Analysis started at:	3/5/2024 11:07:09 AM	Vial	44		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	81.895 %	83.356 %	0.113 ppb	22,772.647 ppb	1,995.088 ppb	1,014.477 ppb	2,655.824 ppb	5,169.630 ppb	84.974 %
Concentration per Run 1	81.802 %	83.080 %	0.117 ppb	23,119.017 ppb	2,008.305 ppb	1,040.408 ppb	2,692.402 ppb	5,180.793 ppb	84.234 %
Concentration per Run 2	82.262 %	84.737 %	0.112 ppb	22,500.355 ppb	1,961.011 ppb	1,017.507 ppb	2,792.511 ppb	5,272.653 ppb	85.347 %
Concentration per Run 3	81.621 %	82.251 %	0.109 ppb	22,698.569 ppb	2,015.946 ppb	985.516 ppb	2,482.559 ppb	5,055.442 ppb	85.341 %
Concentration RSD	0.4 %	1.5 %	3.5 %	1.4 %	1.5 %	2.7 %	6.0 %	2.1 %	0.8 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	1.718 ppb	1.298 ppb	276.208 ppb	2,019.380 ppb	9.331 ppb	2.130 ppb	1.447 ppb	21.083 ppb	83.818 %
Concentration per Run 1	1.614 ppb	1.240 ppb	281.762 ppb	2,016.476 ppb	9.352 ppb	2.146 ppb	1.526 ppb	21.645 ppb	84.738 %
Concentration per Run 2	1.768 ppb	1.387 ppb	281.631 ppb	2,066.620 ppb	9.500 ppb	2.206 ppb	1.375 ppb	20.995 ppb	82.810 %
Concentration per Run 3	1.771 ppb	1.268 ppb	265.229 ppb	1,975.045 ppb	9.141 ppb	2.037 ppb	1.440 ppb	20.609 ppb	83.905 %
Concentration RSD	5.2 %	6.0 %	3.4 %	2.3 %	1.9 %	4.0 %	5.2 %	2.5 %	1.2 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.924 ppb	0.428 ppb	23.068 ppb	3.128 ppb	83.178 %	0.004 ppb	10.715 ppb	84.278 %	4.932 ppb
Concentration per Run 1	0.972 ppb	0.284 ppb	23.234 ppb	3.076 ppb	83.860 %	0.004 ppb	10.844 ppb	85.127 %	5.149 ppb
Concentration per Run 2	0.994 ppb	0.498 ppb	23.748 ppb	3.113 ppb	83.687 %	0.005 ppb	10.592 ppb	87.690 %	4.863 ppb
Concentration per Run 3	0.807 ppb	0.503 ppb	22.223 ppb	3.194 ppb	81.986 %	0.002 ppb	10.708 ppb	80.018 %	4.782 ppb
Concentration RSD	11.0 %	29.1 %	3.4 %	1.9 %	1.2 %	43.3 %	1.2 %	4.6 %	3.9 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	113.644 ppb	90.338 %	92.783 %	0.118 ppb	0.807 ppb
Concentration per Run 1	112.511 ppb	92.602 %	94.686 %	0.107 ppb	0.809 ppb
Concentration per Run 2	113.713 ppb	90.371 %	95.311 %	0.128 ppb	0.783 ppb
Concentration per Run 3	114.709 ppb	88.041 %	88.352 %	0.121 ppb	0.830 ppb
Concentration RSD	1.0 %	2.5 %	4.1 %	9.1 %	3.0 %

Alpha ICPMSQ Data with SRD

3/5/2024 4:47:09 PM

Analysis index:	70	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	I2410403-03 6020TL	Rack	1		
Analysis started at:	3/5/2024 11:11:47 AM	Vial	45		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	81.285 %	84.599 %	0.254 ppb	20,705.498 ppb	1,711.731 ppb	604.857 ppb	1,225.169 ppb	6,802.995 ppb	82.700 %
Concentration per Run 1	81.093 %	89.917 %	0.259 ppb	20,176.487 ppb	1,711.107 ppb	598.775 ppb	1,229.757 ppb	6,603.578 ppb	81.964 %
Concentration per Run 2	81.316 %	74.378 %	0.254 ppb	23,022.426 ppb	1,836.454 ppb	661.557 ppb	1,308.755 ppb	7,270.871 ppb	82.430 %
Concentration per Run 3	81.445 %	89.503 %	0.249 ppb	18,917.582 ppb	1,587.632 ppb	554.239 ppb	1,136.997 ppb	6,534.536 ppb	83.705 %
Concentration RSD	0.2 %	10.5 %	1.8 %	10.2 %	7.3 %	8.9 %	7.0 %	6.0 %	1.1 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	6.197 ppb	0.812 ppb	64.102 ppb	1,681.747 ppb	1.031 ppb	0.799 ppb	1.374 ppb	96.111 ppb	85.526 %
Concentration per Run 1	6.265 ppb	0.757 ppb	61.423 ppb	1,626.226 ppb	1.057 ppb	0.797 ppb	1.240 ppb	94.570 ppb	87.514 %
Concentration per Run 2	6.210 ppb	0.806 ppb	68.670 ppb	1,775.973 ppb	1.061 ppb	0.778 ppb	1.439 ppb	98.592 ppb	85.434 %
Concentration per Run 3	6.117 ppb	0.874 ppb	62.212 ppb	1,643.043 ppb	0.976 ppb	0.823 ppb	1.445 ppb	95.173 ppb	83.630 %
Concentration RSD	1.2 %	7.2 %	6.2 %	4.9 %	4.7 %	2.8 %	8.5 %	2.3 %	2.3 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	1.145 ppb	0.612 ppb	36.912 ppb	0.955 ppb	83.307 %	0.004 ppb	20.793 ppb	84.471 %	1.628 ppb
Concentration per Run 1	1.201 ppb	0.665 ppb	37.126 ppb	0.760 ppb	85.122 %	0.003 ppb	20.696 ppb	87.489 %	1.560 ppb
Concentration per Run 2	1.195 ppb	0.583 ppb	38.079 ppb	1.029 ppb	82.869 %	0.004 ppb	21.112 ppb	84.342 %	1.694 ppb
Concentration per Run 3	1.038 ppb	0.589 ppb	35.531 ppb	1.077 ppb	81.929 %	0.004 ppb	20.570 ppb	81.583 %	1.630 ppb
Concentration RSD	8.1 %	7.5 %	3.5 %	17.9 %	2.0 %	20.9 %	1.4 %	3.5 %	4.1 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	38.713 ppb	90.367 %	91.957 %	0.055 ppb	0.905 ppb
Concentration per Run 1	38.915 ppb	91.246 %	93.085 %	0.036 ppb	0.904 ppb
Concentration per Run 2	40.014 ppb	90.267 %	92.828 %	0.064 ppb	0.910 ppb
Concentration per Run 3	37.211 ppb	89.589 %	89.957 %	0.063 ppb	0.900 ppb
Concentration RSD	3.6 %	0.9 %	1.9 %	29.1 %	0.5 %

Alpha ICPMSQ Data with SRD

3/5/2024 4:47:09 PM

Analysis index:	71	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	I2410403-04 6020TL	Rack	1		
Analysis started at:	3/5/2024 11:16:26 AM	Vial	46		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	79.323 %	81.975 %	0.101 ppb	38,609.590 ppb	1,017.448 ppb	759.641 ppb	1,983.634 ppb	9,831.259 ppb	84.473 %
Concentration per Run 1	80.171 %	89.295 %	0.110 ppb	36,854.766 ppb	969.580 ppb	714.182 ppb	1,831.169 ppb	9,492.122 ppb	85.195 %
Concentration per Run 2	79.969 %	77.693 %	0.091 ppb	38,721.930 ppb	1,019.261 ppb	774.520 ppb	2,064.119 ppb	9,698.126 ppb	84.638 %
Concentration per Run 3	77.829 %	78.936 %	0.102 ppb	40,252.074 ppb	1,063.504 ppb	790.223 ppb	2,055.613 ppb	10,303.529 ppb	83.586 %
Concentration RSD	1.6 %	7.8 %	9.6 %	4.4 %	4.6 %	5.3 %	6.7 %	4.3 %	1.0 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	1.407 ppb	0.967 ppb	63.123 ppb	4,251.592 ppb	1.547 ppb	2.901 ppb	9.035 ppb	88.368 ppb	83.273 %
Concentration per Run 1	1.336 ppb	0.918 ppb	61.286 ppb	4,106.971 ppb	1.575 ppb	2.722 ppb	8.830 ppb	84.474 ppb	86.875 %
Concentration per Run 2	1.482 ppb	0.995 ppb	62.810 ppb	4,293.925 ppb	1.534 ppb	3.100 ppb	9.008 ppb	90.288 ppb	81.345 %
Concentration per Run 3	1.403 ppb	0.988 ppb	65.273 ppb	4,353.881 ppb	1.531 ppb	2.882 ppb	9.265 ppb	90.342 ppb	81.599 %
Concentration RSD	5.2 %	4.4 %	3.2 %	3.0 %	1.6 %	6.5 %	2.4 %	3.8 %	3.7 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.472 ppb	1.270 ppb	71.476 ppb	0.495 ppb	80.980 %	0.006 ppb	14.549 ppb	83.471 %	0.910 ppb
Concentration per Run 1	0.440 ppb	1.382 ppb	71.190 ppb	0.467 ppb	81.682 %	0.004 ppb	14.920 ppb	83.410 %	0.885 ppb
Concentration per Run 2	0.502 ppb	1.236 ppb	69.740 ppb	0.475 ppb	79.472 %	0.010 ppb	14.309 ppb	81.921 %	0.886 ppb
Concentration per Run 3	0.476 ppb	1.192 ppb	73.498 ppb	0.542 ppb	81.785 %	0.003 ppb	14.417 ppb	85.082 %	0.959 ppb
Concentration RSD	6.6 %	7.8 %	2.7 %	8.4 %	1.6 %	72.4 %	2.2 %	1.9 %	4.7 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	110.592 ppb	90.514 %	91.761 %	0.049 ppb	1.174 ppb
Concentration per Run 1	115.060 ppb	91.558 %	91.500 %	0.036 ppb	1.200 ppb
Concentration per Run 2	106.987 ppb	87.821 %	87.877 %	0.058 ppb	1.200 ppb
Concentration per Run 3	109.728 ppb	92.162 %	95.908 %	0.054 ppb	1.120 ppb
Concentration RSD	3.7 %	2.6 %	4.4 %	23.8 %	3.9 %

Alpha ICPMSQ Data with SRD

3/5/2024 4:47:09 PM

Analysis index:	72	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	I2410403-05 6020TL	Rack	1		
Analysis started at:	3/5/2024 11:21:05 AM	Vial	47		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	81.849 %	92.956 %	0.008 ppb	28.841 ppb	0.624 ppb	1.588 ppb	-3.916 ppb	0.605 ppb	82.123 %
Concentration per Run 1	82.809 %	95.718 %	0.009 ppb	30.601 ppb	-0.163 ppb	1.613 ppb	-3.313 ppb	1.396 ppb	83.422 %
Concentration per Run 2	81.267 %	89.296 %	0.011 ppb	29.091 ppb	1.064 ppb	1.417 ppb	-9.380 ppb	0.337 ppb	81.154 %
Concentration per Run 3	81.472 %	93.854 %	0.004 ppb	26.831 ppb	0.971 ppb	1.735 ppb	0.945 ppb	0.081 ppb	81.794 %
Concentration RSD	1.0 %	3.6 %	44.6 %	6.6 %	109.5 %	10.1 %	132.5 %	115.3 %	1.4 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.002 ppb	0.033 ppb	0.028 ppb	10.925 ppb	-0.002 ppb	0.011 ppb	0.063 ppb	0.195 ppb	86.481 %
Concentration per Run 1	0.007 ppb	0.027 ppb	0.031 ppb	10.694 ppb	-0.002 ppb	0.012 ppb	0.048 ppb	0.152 ppb	88.373 %
Concentration per Run 2	0.009 ppb	0.036 ppb	-0.023 ppb	12.087 ppb	-0.002 ppb	0.023 ppb	0.084 ppb	0.199 ppb	83.240 %
Concentration per Run 3	-0.023 ppb	0.038 ppb	0.074 ppb	9.995 ppb	0.000 ppb	-0.001 ppb	0.057 ppb	0.234 ppb	87.832 %
Concentration RSD	882.5 %	17.0 %	175.3 %	9.7 %	67.4 %	105.7 %	29.7 %	21.1 %	3.3 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.008 ppb	0.033 ppb	0.008 ppb	0.289 ppb	86.001 %	0.001 ppb	0.004 ppb	85.213 %	0.507 ppb
Concentration per Run 1	0.018 ppb	0.083 ppb	0.005 ppb	0.233 ppb	88.641 %	0.001 ppb	0.007 ppb	86.525 %	0.477 ppb
Concentration per Run 2	0.055 ppb	0.037 ppb	0.011 ppb	0.268 ppb	82.706 %	0.000 ppb	0.001 ppb	80.938 %	0.516 ppb
Concentration per Run 3	-0.050 ppb	-0.021 ppb	0.006 ppb	0.367 ppb	86.657 %	0.001 ppb	0.004 ppb	88.177 %	0.529 ppb
Concentration RSD	664.4 %	157.4 %	40.7 %	24.0 %	3.5 %	62.1 %	65.1 %	4.5 %	5.3 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	0.017 ppb	89.718 %	91.492 %	0.026 ppb	0.026 ppb
Concentration per Run 1	0.020 ppb	91.830 %	93.896 %	0.011 ppb	0.028 ppb
Concentration per Run 2	0.016 ppb	85.489 %	86.668 %	0.034 ppb	0.025 ppb
Concentration per Run 3	0.014 ppb	91.836 %	93.911 %	0.032 ppb	0.024 ppb
Concentration RSD	18.1 %	4.1 %	4.6 %	49.7 %	6.9 %

Alpha ICPMSQ Data with SRD

3/5/2024 4:47:09 PM

Analysis index:	73	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	I2410453-02 6020TL	Rack	1		
Analysis started at:	3/5/2024 11:25:43 AM	Vial	48		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	82.973 %	90.884 %	0.007 ppb	2.398 ppb	0.636 ppb	1.633 ppb	-0.343 ppb	2.016 ppb	81.674 %
Concentration per Run 1	83.313 %	95.097 %	0.007 ppb	2.491 ppb	1.419 ppb	1.229 ppb	3.760 ppb	4.144 ppb	81.697 %
Concentration per Run 2	83.316 %	91.367 %	0.010 ppb	0.999 ppb	0.110 ppb	1.579 ppb	-1.695 ppb	0.308 ppb	81.695 %
Concentration per Run 3	82.292 %	86.188 %	0.003 ppb	3.704 ppb	0.379 ppb	2.091 ppb	-3.093 ppb	1.596 ppb	81.630 %
Concentration RSD	0.7 %	4.9 %	50.4 %	56.5 %	108.6 %	26.6 %	1,057.2 %	96.8 %	0.0 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.001 ppb	0.191 ppb	0.103 ppb	4.790 ppb	0.000 ppb	0.030 ppb	0.030 ppb	0.879 ppb	83.455 %
Concentration per Run 1	-0.023 ppb	0.229 ppb	0.091 ppb	3.819 ppb	0.002 ppb	0.061 ppb	0.034 ppb	0.830 ppb	84.464 %
Concentration per Run 2	0.010 ppb	0.164 ppb	0.126 ppb	6.219 ppb	0.000 ppb	0.032 ppb	0.032 ppb	0.878 ppb	80.570 %
Concentration per Run 3	0.009 ppb	0.179 ppb	0.093 ppb	4.331 ppb	0.000 ppb	-0.005 ppb	0.025 ppb	0.928 ppb	85.330 %
Concentration RSD	1,444.3 %	17.9 %	19.1 %	26.4 %	286.4 %	112.0 %	14.6 %	5.5 %	3.0 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.024 ppb	0.033 ppb	0.201 ppb	0.170 ppb	86.681 %	0.002 ppb	0.001 ppb	86.433 %	0.351 ppb
Concentration per Run 1	-0.075 ppb	0.137 ppb	0.206 ppb	0.154 ppb	86.891 %	0.003 ppb	0.000 ppb	87.072 %	0.317 ppb
Concentration per Run 2	0.082 ppb	-0.025 ppb	0.195 ppb	0.148 ppb	84.814 %	0.001 ppb	0.000 ppb	81.904 %	0.358 ppb
Concentration per Run 3	0.066 ppb	-0.012 ppb	0.202 ppb	0.209 ppb	88.339 %	0.003 ppb	0.003 ppb	90.323 %	0.377 ppb
Concentration RSD	354.4 %	270.1 %	3.0 %	19.9 %	2.0 %	64.2 %	173.2 %	4.9 %	8.7 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	0.223 ppb	90.474 %	89.587 %	0.025 ppb	0.023 ppb
Concentration per Run 1	0.224 ppb	90.377 %	90.362 %	0.016 ppb	0.023 ppb
Concentration per Run 2	0.227 ppb	88.837 %	86.006 %	0.030 ppb	0.025 ppb
Concentration per Run 3	0.217 ppb	92.209 %	92.392 %	0.030 ppb	0.022 ppb
Concentration RSD	2.2 %	1.9 %	3.6 %	32.5 %	5.6 %

Alpha ICPMSQ Data with SRD

3/5/2024 4:47:09 PM

Analysis index:	74	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	I2410453-03 6020TL	Rack	1		
Analysis started at:	3/5/2024 11:30:23 AM	Vial	49		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	82.383 %	84.461 %	0.006 ppb	45,789.172 ppb	523.681 ppb	1,982.333 ppb	996.753 ppb	30,012.646 ppb	82.684 %
Concentration per Run 1	84.349 %	89.710 %	0.006 ppb	43,993.161 ppb	491.232 ppb	1,901.164 ppb	957.965 ppb	29,690.336 ppb	84.096 %
Concentration per Run 2	81.514 %	79.351 %	0.008 ppb	46,271.919 ppb	522.041 ppb	1,948.398 ppb	1,018.551 ppb	30,435.429 ppb	80.947 %
Concentration per Run 3	81.287 %	84.323 %	0.006 ppb	47,102.437 ppb	557.769 ppb	2,097.436 ppb	1,013.743 ppb	29,912.174 ppb	83.010 %
Concentration RSD	2.1 %	6.1 %	19.4 %	3.5 %	6.4 %	5.2 %	3.4 %	1.3 %	1.9 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	12.682 ppb	0.701 ppb	498.246 ppb	337.290 ppb	0.202 ppb	0.973 ppb	9.933 ppb	1.172 ppb	85.068 %
Concentration per Run 1	12.328 ppb	0.697 ppb	485.984 ppb	333.418 ppb	0.181 ppb	1.057 ppb	9.814 ppb	1.164 ppb	86.607 %
Concentration per Run 2	12.882 ppb	0.716 ppb	492.111 ppb	333.691 ppb	0.208 ppb	0.924 ppb	10.321 ppb	1.206 ppb	81.213 %
Concentration per Run 3	12.835 ppb	0.689 ppb	516.644 ppb	344.760 ppb	0.219 ppb	0.937 ppb	9.665 ppb	1.146 ppb	87.382 %
Concentration RSD	2.4 %	2.0 %	3.3 %	1.9 %	9.7 %	7.6 %	3.5 %	2.6 %	4.0 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	2.482 ppb	0.212 ppb	41.263 ppb	0.540 ppb	81.620 %	0.001 ppb	0.022 ppb	83.868 %	0.453 ppb
Concentration per Run 1	2.422 ppb	0.243 ppb	41.566 ppb	0.509 ppb	79.822 %	0.000 ppb	0.026 ppb	83.130 %	0.439 ppb
Concentration per Run 2	2.499 ppb	0.299 ppb	40.464 ppb	0.519 ppb	81.619 %	0.001 ppb	0.021 ppb	81.638 %	0.464 ppb
Concentration per Run 3	2.526 ppb	0.094 ppb	41.760 ppb	0.591 ppb	83.420 %	0.002 ppb	0.017 ppb	86.836 %	0.456 ppb
Concentration RSD	2.2 %	50.2 %	1.7 %	8.3 %	2.2 %	84.3 %	21.3 %	3.2 %	2.8 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	12.412 ppb	88.829 %	90.385 %	0.030 ppb	2.245 ppb
Concentration per Run 1	13.353 ppb	86.732 %	88.641 %	0.021 ppb	2.305 ppb
Concentration per Run 2	12.038 ppb	86.978 %	88.756 %	0.034 ppb	2.232 ppb
Concentration per Run 3	11.844 ppb	92.778 %	93.758 %	0.036 ppb	2.198 ppb
Concentration RSD	6.6 %	3.9 %	3.2 %	26.3 %	2.4 %

Alpha ICPMSQ Data with SRD

3/5/2024 4:47:09 PM

Analysis index:	75	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	I2410453-04 6020TL	Rack	1		
Analysis started at:	3/5/2024 11:35:00 AM	Vial	50		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	77.653 %	87.016 %	0.098 ppb	59,090.903 ppb	16,649.902 ppb	1,422.394 ppb	2,294.787 ppb	97,747.370 ppb	81.242 %
Concentration per Run 1	78.999 %	88.674 %	0.097 ppb	56,861.622 ppb	16,058.293 ppb	1,366.669 ppb	2,203.345 ppb	96,580.605 ppb	81.912 %
Concentration per Run 2	77.523 %	88.881 %	0.085 ppb	58,607.009 ppb	16,296.055 ppb	1,416.348 ppb	2,216.475 ppb	93,631.463 ppb	80.332 %
Concentration per Run 3	76.438 %	83.494 %	0.112 ppb	61,804.079 ppb	17,595.359 ppb	1,484.163 ppb	2,464.540 ppb	103,030.042 ppb	81.483 %
Concentration RSD	1.7 %	3.5 %	13.8 %	4.2 %	5.0 %	4.1 %	6.4 %	4.9 %	1.0 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	4.846 ppb	2.271 ppb	128.974 ppb	1,749.521 ppb	1.306 ppb	2.897 ppb	2.558 ppb	7.876 ppb	82.764 %
Concentration per Run 1	4.866 ppb	2.220 ppb	130.057 ppb	1,741.303 ppb	1.328 ppb	2.811 ppb	2.579 ppb	8.168 ppb	80.309 %
Concentration per Run 2	4.495 ppb	2.228 ppb	122.383 ppb	1,717.495 ppb	1.193 ppb	2.713 ppb	2.653 ppb	7.456 ppb	87.064 %
Concentration per Run 3	5.175 ppb	2.364 ppb	134.484 ppb	1,789.764 ppb	1.396 ppb	3.166 ppb	2.443 ppb	8.005 ppb	80.920 %
Concentration RSD	7.0 %	3.6 %	4.7 %	2.1 %	7.9 %	8.2 %	4.2 %	4.7 %	4.5 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	1.242 ppb	0.748 ppb	154.386 ppb	0.336 ppb	78.265 %	0.007 ppb	0.022 ppb	81.648 %	0.330 ppb
Concentration per Run 1	1.286 ppb	1.047 ppb	152.337 ppb	0.320 ppb	76.434 %	0.005 ppb	0.027 ppb	77.242 %	0.333 ppb
Concentration per Run 2	1.154 ppb	0.376 ppb	153.198 ppb	0.277 ppb	79.554 %	0.007 ppb	0.015 ppb	84.140 %	0.332 ppb
Concentration per Run 3	1.287 ppb	0.819 ppb	157.623 ppb	0.410 ppb	78.805 %	0.009 ppb	0.025 ppb	83.561 %	0.325 ppb
Concentration RSD	6.1 %	45.6 %	1.8 %	20.2 %	2.1 %	29.6 %	27.9 %	4.7 %	1.4 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	197.281 ppb	88.159 %	89.513 %	0.047 ppb	1.237 ppb
Concentration per Run 1	198.208 ppb	84.033 %	83.546 %	0.038 ppb	1.301 ppb
Concentration per Run 2	198.840 ppb	89.467 %	92.761 %	0.054 ppb	1.209 ppb
Concentration per Run 3	194.797 ppb	90.978 %	92.232 %	0.049 ppb	1.202 ppb
Concentration RSD	1.1 %	4.1 %	5.8 %	17.0 %	4.4 %

Alpha ICPMSQ Data with SRD

3/5/2024 4:47:09 PM

Analysis index:	76	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	I2410453-05 6020TL	Rack	1		
Analysis started at:	3/5/2024 11:39:38 AM	Vial	51		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	78.864 %	85.773 %	0.010 ppb	43,416.402 ppb	516.819 ppb	1,812.369 ppb	933.603 ppb	28,134.859 ppb	81.602 %
Concentration per Run 1	80.791 %	91.160 %	0.007 ppb	40,186.764 ppb	488.727 ppb	1,657.477 ppb	841.826 ppb	26,574.474 ppb	83.080 %
Concentration per Run 2	78.489 %	85.566 %	0.013 ppb	43,411.665 ppb	515.266 ppb	1,843.959 ppb	916.543 ppb	28,074.849 ppb	81.029 %
Concentration per Run 3	77.313 %	80.594 %	0.009 ppb	46,650.778 ppb	546.464 ppb	1,935.670 ppb	1,042.440 ppb	29,755.253 ppb	80.699 %
Concentration RSD	2.2 %	6.2 %	34.7 %	7.4 %	5.6 %	7.8 %	10.9 %	5.7 %	1.6 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	12.458 ppb	0.777 ppb	487.246 ppb	337.213 ppb	0.187 ppb	0.841 ppb	8.297 ppb	1.287 ppb	84.825 %
Concentration per Run 1	11.858 ppb	0.740 ppb	471.418 ppb	331.387 ppb	0.180 ppb	0.905 ppb	8.599 ppb	1.368 ppb	80.934 %
Concentration per Run 2	12.992 ppb	0.753 ppb	492.092 ppb	332.581 ppb	0.178 ppb	0.881 ppb	7.999 ppb	1.237 ppb	87.338 %
Concentration per Run 3	12.525 ppb	0.839 ppb	498.228 ppb	347.669 ppb	0.203 ppb	0.739 ppb	8.292 ppb	1.256 ppb	86.204 %
Concentration RSD	4.6 %	6.9 %	2.9 %	2.7 %	7.7 %	10.7 %	3.6 %	5.5 %	4.0 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	2.579 ppb	0.137 ppb	38.555 ppb	0.414 ppb	80.482 %	0.003 ppb	0.016 ppb	81.589 %	0.367 ppb
Concentration per Run 1	2.685 ppb	0.094 ppb	37.554 ppb	0.382 ppb	79.323 %	0.001 ppb	0.013 ppb	79.094 %	0.342 ppb
Concentration per Run 2	2.503 ppb	0.181 ppb	38.344 ppb	0.357 ppb	81.653 %	0.003 ppb	0.016 ppb	84.115 %	0.382 ppb
Concentration per Run 3	2.548 ppb	0.136 ppb	39.767 ppb	0.503 ppb	80.471 %	0.003 ppb	0.020 ppb	81.559 %	0.377 ppb
Concentration RSD	3.7 %	31.7 %	2.9 %	18.9 %	1.4 %	50.3 %	20.5 %	3.1 %	5.9 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	11.629 ppb	88.427 %	90.519 %	0.025 ppb	1.730 ppb
Concentration per Run 1	10.959 ppb	86.572 %	86.522 %	0.018 ppb	1.790 ppb
Concentration per Run 2	11.881 ppb	89.186 %	94.637 %	0.025 ppb	1.643 ppb
Concentration per Run 3	12.047 ppb	89.522 %	90.397 %	0.031 ppb	1.758 ppb
Concentration RSD	5.0 %	1.8 %	4.5 %	25.6 %	4.4 %

Alpha ICPMSQ Data with SRD

3/5/2024 4:47:09 PM

Analysis index:	77	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	WG1890419-6d5 6020TL	Rack	1		
Analysis started at:	3/5/2024 11:44:15 AM	Vial	42		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	76.592 %	89.641 %	0.011 ppb	38,890.407 ppb	2,645.083 ppb	22.390 ppb	1,597.209 ppb	17,248.033 ppb	77.936 %
Concentration per Run 1	76.969 %	85.566 %	0.010 ppb	39,338.315 ppb	2,651.004 ppb	21.487 ppb	1,609.139 ppb	17,149.844 ppb	77.207 %
Concentration per Run 2	75.534 %	97.790 %	0.016 ppb	35,899.921 ppb	2,449.046 ppb	19.860 ppb	1,444.404 ppb	16,131.772 ppb	76.631 %
Concentration per Run 3	77.273 %	85.566 %	0.008 ppb	41,432.984 ppb	2,835.199 ppb	25.823 ppb	1,738.082 ppb	18,462.482 ppb	79.971 %
Concentration RSD	1.2 %	7.9 %	34.7 %	7.2 %	7.3 %	13.8 %	9.2 %	6.8 %	2.3 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.128 ppb	0.160 ppb	31.836 ppb	40.245 ppb	0.084 ppb	0.348 ppb	0.396 ppb	0.648 ppb	84.287 %
Concentration per Run 1	0.103 ppb	0.145 ppb	31.995 ppb	37.215 ppb	0.099 ppb	0.357 ppb	0.442 ppb	0.676 ppb	79.800 %
Concentration per Run 2	0.163 ppb	0.151 ppb	29.874 ppb	35.767 ppb	0.069 ppb	0.276 ppb	0.343 ppb	0.613 ppb	89.872 %
Concentration per Run 3	0.116 ppb	0.183 ppb	33.641 ppb	47.751 ppb	0.084 ppb	0.412 ppb	0.403 ppb	0.653 ppb	83.187 %
Concentration RSD	24.6 %	12.7 %	5.9 %	16.3 %	17.8 %	19.6 %	12.5 %	4.9 %	6.1 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.176 ppb	0.416 ppb	55.362 ppb	0.256 ppb	83.484 %	0.004 ppb	0.006 ppb	85.792 %	0.178 ppb
Concentration per Run 1	0.109 ppb	0.521 ppb	55.753 ppb	0.268 ppb	79.616 %	0.005 ppb	0.007 ppb	78.508 %	0.179 ppb
Concentration per Run 2	0.185 ppb	0.280 ppb	53.203 ppb	0.174 ppb	86.781 %	0.004 ppb	0.008 ppb	91.211 %	0.174 ppb
Concentration per Run 3	0.234 ppb	0.447 ppb	57.128 ppb	0.325 ppb	84.056 %	0.004 ppb	0.004 ppb	87.657 %	0.180 ppb
Concentration RSD	35.6 %	29.6 %	3.6 %	29.9 %	4.3 %	14.0 %	32.1 %	7.6 %	1.7 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	24.356 ppb	91.903 %	92.181 %	0.017 ppb	0.056 ppb
Concentration per Run 1	25.850 ppb	87.007 %	85.512 %	0.010 ppb	0.060 ppb
Concentration per Run 2	23.194 ppb	95.544 %	95.678 %	0.019 ppb	0.052 ppb
Concentration per Run 3	24.023 ppb	93.158 %	95.353 %	0.022 ppb	0.057 ppb
Concentration RSD	5.6 %	4.8 %	6.3 %	36.0 %	6.9 %

Alpha ICPMSQ Data with SRD

3/5/2024 4:47:09 PM

Analysis index:	78	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	CCV	Rack	0		
Analysis started at:	3/5/2024 11:48:53 AM	Vial	9		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	78.995 %	88.190 %	60.425 ppb	5,676.125 ppb	5,822.998 ppb	57.220 ppb	5,744.129 ppb	5,859.293 ppb	85.764 %
Concentration per Run 1	79.096 %	83.909 %	60.442 ppb	5,832.362 ppb	5,901.252 ppb	56.010 ppb	5,716.548 ppb	5,938.102 ppb	85.877 %
Concentration per Run 2	78.725 %	90.746 %	60.241 ppb	5,631.150 ppb	5,823.929 ppb	59.971 ppb	5,743.352 ppb	5,772.115 ppb	85.762 %
Concentration per Run 3	79.165 %	89.917 %	60.591 ppb	5,564.862 ppb	5,743.812 ppb	55.677 ppb	5,772.488 ppb	5,867.663 ppb	85.654 %
Recovery Percentage 1			100.708 %	94.602 %	97.050 %	95.366 %	95.735 %	97.655 %	
Concentration RSD	0.3 %	4.2 %	0.3 %	2.5 %	1.4 %	4.2 %	0.5 %	1.4 %	0.1 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	58.331 ppb	60.391 ppb	60.512 ppb	5,860.980 ppb	59.400 ppb	61.231 ppb	60.897 ppb	59.374 ppb	81.122 %
Concentration per Run 1	60.190 ppb	62.737 ppb	62.978 ppb	6,060.541 ppb	61.455 ppb	63.815 ppb	63.479 ppb	61.469 ppb	77.785 %
Concentration per Run 2	57.479 ppb	59.102 ppb	60.325 ppb	5,705.726 ppb	57.727 ppb	58.970 ppb	59.254 ppb	56.766 ppb	83.957 %
Concentration per Run 3	57.322 ppb	59.333 ppb	58.234 ppb	5,816.673 ppb	59.019 ppb	60.908 ppb	59.957 ppb	59.887 ppb	81.622 %
Recovery Percentage 1	97.218 %	100.651 %	100.854 %	97.683 %	99.000 %	102.052 %	101.495 %	98.957 %	
Concentration RSD	2.8 %	3.4 %	3.9 %	3.1 %	3.2 %	4.0 %	3.7 %	4.0 %	3.8 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	60.680 ppb	63.998 ppb	60.838 ppb	58.111 ppb	81.506 %	61.402 ppb	61.676 ppb	82.850 %	55.967 ppb
Concentration per Run 1	62.398 ppb	64.349 ppb	60.678 ppb	58.123 ppb	80.926 %	62.799 ppb	63.437 ppb	79.187 %	57.547 ppb
Concentration per Run 2	59.618 ppb	63.894 ppb	59.907 ppb	57.051 ppb	82.155 %	60.400 ppb	59.934 ppb	85.698 %	53.588 ppb
Concentration per Run 3	60.024 ppb	63.750 ppb	61.928 ppb	59.158 ppb	81.438 %	61.007 ppb	61.656 ppb	83.665 %	56.767 ppb
Recovery Percentage 1	101.133 %	106.663 %	101.396 %	96.851 %		102.337 %	102.793 %		93.279 %
Concentration RSD	2.5 %	0.5 %	1.7 %	1.8 %	0.8 %	2.0 %	2.8 %	4.0 %	3.7 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	60.358 ppb	88.113 %	89.117 %	61.739 ppb	61.356 ppb
Concentration per Run 1	61.283 ppb	87.239 %	86.416 %	62.077 ppb	62.611 ppb
Concentration per Run 2	59.595 ppb	87.755 %	89.388 %	61.747 ppb	61.588 ppb
Concentration per Run 3	60.197 ppb	89.344 %	91.547 %	61.394 ppb	59.871 ppb
Recovery Percentage 1	100.597 %			102.899 %	102.261 %
Concentration RSD	1.4 %	1.2 %	2.9 %	0.6 %	2.3 %

Alpha ICPMSQ Data with SRD

3/5/2024 4:47:09 PM

Analysis index:	79	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	CCB	Rack	0		
Analysis started at:	3/5/2024 11:53:34 AM	Vial	10		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	77.334 %	90.539 %	0.012 ppb	2.287 ppb	0.122 ppb	-0.371 ppb	-3.858 ppb	-1.456 ppb	76.079 %
Concentration per Run 1	76.782 %	93.439 %	0.013 ppb	2.114 ppb	0.552 ppb	-0.469 ppb	-6.216 ppb	-1.028 ppb	75.621 %
Concentration per Run 2	77.604 %	85.359 %	0.014 ppb	3.374 ppb	0.410 ppb	-0.263 ppb	3.388 ppb	-0.798 ppb	75.767 %
Concentration per Run 3	77.617 %	92.818 %	0.011 ppb	1.374 ppb	-0.596 ppb	-0.381 ppb	-8.746 ppb	-2.541 ppb	76.850 %
Recovery Percentage 1			2.480 %	2.287 %	0.174 %	-3.709 %	-3.858 %	-1.456 %	
Concentration RSD	0.6 %	5.0 %	13.2 %	44.2 %	513.2 %	27.9 %	165.9 %	65.1 %	0.9 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.012 ppb	-0.005 ppb	0.032 ppb	9.592 ppb	0.000 ppb	-0.017 ppb	0.011 ppb	0.101 ppb	81.053 %
Concentration per Run 1	-0.015 ppb	-0.001 ppb	0.051 ppb	11.504 ppb	0.002 ppb	-0.017 ppb	0.018 ppb	0.085 ppb	81.319 %
Concentration per Run 2	-0.006 ppb	-0.013 ppb	0.009 ppb	7.981 ppb	0.000 ppb	-0.023 ppb	0.001 ppb	0.088 ppb	79.637 %
Concentration per Run 3	-0.015 ppb	-0.001 ppb	0.036 ppb	9.291 ppb	-0.002 ppb	-0.011 ppb	0.013 ppb	0.131 ppb	82.205 %
Recovery Percentage 1	-0.239 %	-0.469 %	3.169 %	19.184 %	-0.043 %	-0.851 %	1.099 %	2.026 %	
Concentration RSD	42.8 %	149.4 %	67.3 %	18.6 %	925.5 %	35.1 %	78.9 %	25.8 %	1.6 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.102 ppb	0.391 ppb	-0.002 ppb	0.855 ppb	81.574 %	0.003 ppb	0.009 ppb	82.465 %	0.857 ppb
Concentration per Run 1	0.090 ppb	0.247 ppb	-0.004 ppb	0.785 ppb	79.347 %	0.004 ppb	0.016 ppb	81.194 %	0.837 ppb
Concentration per Run 2	0.138 ppb	0.473 ppb	-0.004 ppb	0.893 ppb	80.813 %	0.004 ppb	0.007 ppb	81.966 %	0.874 ppb
Concentration per Run 3	0.077 ppb	0.454 ppb	0.001 ppb	0.887 ppb	84.561 %	0.002 ppb	0.005 ppb	84.236 %	0.859 ppb
Recovery Percentage 1	20.305 %	7.829 %	-0.024 %	42.755 %		0.823 %	4.656 %		21.421 %
Concentration RSD	32.1 %	32.1 %	135.6 %	7.1 %	3.3 %	42.0 %	58.6 %	1.9 %	2.2 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	0.012 ppb	86.324 %	88.741 %	0.380 ppb	0.038 ppb
Concentration per Run 1	0.028 ppb	85.417 %	87.815 %	0.362 ppb	0.042 ppb
Concentration per Run 2	-0.002 ppb	85.268 %	87.415 %	0.434 ppb	0.038 ppb
Concentration per Run 3	0.009 ppb	88.286 %	90.993 %	0.345 ppb	0.034 ppb
Recovery Percentage 1	2.306 %			38.008 %	3.777 %
Concentration RSD	132.2 %	2.0 %	2.2 %	12.4 %	10.0 %

Alpha ICPMSQ Data with SRD

3/5/2024 4:47:09 PM

Analysis index:	80	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	WG1891188-1 6020SL	Rack	1		
Analysis started at:	3/5/2024 11:59:32 AM	Vial	60		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	80.226 %	89.710 %	0.005 ppb	40.040 ppb	0.980 ppb	2.729 ppb	8.108 ppb	11.013 ppb	80.920 %
Concentration per Run 1	80.670 %	89.088 %	0.004 ppb	43.423 ppb	1.509 ppb	2.621 ppb	6.869 ppb	12.874 ppb	80.802 %
Concentration per Run 2	80.852 %	89.088 %	0.004 ppb	37.137 ppb	0.125 ppb	3.232 ppb	13.850 ppb	9.197 ppb	81.461 %
Concentration per Run 3	79.155 %	90.953 %	0.006 ppb	39.561 ppb	1.307 ppb	2.333 ppb	3.604 ppb	10.968 ppb	80.497 %
Concentration RSD	1.2 %	1.2 %	20.1 %	7.9 %	76.3 %	16.8 %	64.6 %	16.7 %	0.6 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.004 ppb	0.076 ppb	0.263 ppb	6.165 ppb	0.013 ppb	0.049 ppb	0.082 ppb	0.496 ppb	82.384 %
Concentration per Run 1	0.001 ppb	0.082 ppb	0.230 ppb	5.620 ppb	0.003 ppb	0.053 ppb	0.083 ppb	0.480 ppb	87.748 %
Concentration per Run 2	-0.007 ppb	0.055 ppb	0.259 ppb	5.101 ppb	0.022 ppb	0.045 ppb	0.076 ppb	0.493 ppb	81.852 %
Concentration per Run 3	-0.006 ppb	0.090 ppb	0.299 ppb	7.775 ppb	0.012 ppb	0.050 ppb	0.086 ppb	0.514 ppb	77.553 %
Concentration RSD	97.4 %	24.1 %	13.1 %	23.0 %	73.2 %	7.4 %	5.9 %	3.5 %	6.2 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.028 ppb	0.074 ppb	0.022 ppb	0.260 ppb	85.588 %	0.001 ppb	0.001 ppb	88.732 %	0.918 ppb
Concentration per Run 1	0.042 ppb	0.040 ppb	0.024 ppb	0.204 ppb	88.172 %	0.001 ppb	0.002 ppb	93.054 %	0.897 ppb
Concentration per Run 2	0.031 ppb	0.093 ppb	0.020 ppb	0.255 ppb	83.658 %	0.001 ppb	0.000 ppb	88.427 %	0.934 ppb
Concentration per Run 3	0.010 ppb	0.090 ppb	0.022 ppb	0.321 ppb	84.935 %	0.000 ppb	0.000 ppb	84.714 %	0.924 ppb
Concentration RSD	59.2 %	39.6 %	9.2 %	22.7 %	2.7 %	74.1 %	173.2 %	4.7 %	2.1 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	0.055 ppb	91.887 %	92.446 %	0.100 ppb	0.037 ppb
Concentration per Run 1	0.051 ppb	94.502 %	96.532 %	0.070 ppb	0.034 ppb
Concentration per Run 2	0.070 ppb	90.301 %	90.264 %	0.121 ppb	0.040 ppb
Concentration per Run 3	0.043 ppb	90.857 %	90.542 %	0.108 ppb	0.038 ppb
Concentration RSD	25.7 %	2.5 %	3.8 %	27.0 %	7.3 %

Alpha ICPMSQ Data with SRD

3/5/2024 4:47:09 PM

Analysis index:	81	User name	ALPHALAB\Metals-Instrument	Comment	FB
Analysis label:	I2410521-02 6020TL	Rack	1		
Analysis started at:	3/5/2024 12:04:11 PM	Vial	56		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	80.067 %	90.884 %	0.003 ppb	58.559 ppb	5.801 ppb	4.694 ppb	95.301 ppb	45.647 ppb	77.511 %
Concentration per Run 1	80.721 %	93.025 %	0.003 ppb	60.721 ppb	5.564 ppb	4.806 ppb	92.275 ppb	40.854 ppb	77.496 %
Concentration per Run 2	79.904 %	88.467 %	0.004 ppb	57.302 ppb	5.302 ppb	4.347 ppb	108.457 ppb	42.810 ppb	77.642 %
Concentration per Run 3	79.576 %	91.160 %	0.002 ppb	57.653 ppb	6.538 ppb	4.928 ppb	85.172 ppb	53.278 ppb	77.394 %
Concentration RSD	0.7 %	2.5 %	35.8 %	3.2 %	11.2 %	6.5 %	12.5 %	14.6 %	0.2 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.019 ppb	0.121 ppb	0.086 ppb	7.419 ppb	0.005 ppb	0.054 ppb	0.152 ppb	7.882 ppb	85.917 %
Concentration per Run 1	0.001 ppb	0.136 ppb	0.048 ppb	8.238 ppb	0.009 ppb	0.062 ppb	0.180 ppb	7.911 ppb	84.568 %
Concentration per Run 2	0.017 ppb	0.104 ppb	0.120 ppb	5.087 ppb	0.004 ppb	0.028 ppb	0.157 ppb	7.949 ppb	86.308 %
Concentration per Run 3	0.039 ppb	0.122 ppb	0.090 ppb	8.931 ppb	0.003 ppb	0.073 ppb	0.117 ppb	7.785 ppb	86.875 %
Concentration RSD	102.9 %	13.6 %	41.7 %	27.6 %	61.9 %	43.5 %	21.2 %	1.1 %	1.4 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.025 ppb	0.019 ppb	0.432 ppb	0.090 ppb	85.671 %	0.011 ppb	0.001 ppb	87.391 %	0.185 ppb
Concentration per Run 1	0.006 ppb	0.030 ppb	0.430 ppb	0.088 ppb	85.998 %	0.014 ppb	0.000 ppb	87.679 %	0.171 ppb
Concentration per Run 2	0.019 ppb	-0.009 ppb	0.430 ppb	0.064 ppb	85.588 %	0.011 ppb	0.003 ppb	87.493 %	0.172 ppb
Concentration per Run 3	0.049 ppb	0.035 ppb	0.436 ppb	0.119 ppb	85.426 %	0.009 ppb	0.001 ppb	87.001 %	0.211 ppb
Concentration RSD	88.9 %	128.1 %	0.8 %	30.7 %	0.3 %	21.8 %	99.9 %	0.4 %	12.1 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	0.433 ppb	91.009 %	92.604 %	0.056 ppb	0.032 ppb
Concentration per Run 1	0.448 ppb	90.748 %	92.276 %	0.037 ppb	0.031 ppb
Concentration per Run 2	0.441 ppb	91.372 %	92.181 %	0.066 ppb	0.032 ppb
Concentration per Run 3	0.410 ppb	90.907 %	93.355 %	0.066 ppb	0.031 ppb
Concentration RSD	4.7 %	0.4 %	0.7 %	29.0 %	1.4 %

Alpha ICPMSQ Data with SRD

3/5/2024 4:47:09 PM

Analysis index:	82	User name	ALPHALAB\Metals-Instrument	Comment	FB
Analysis label:	I2410563-05 6020TL	Rack	1		
Analysis started at:	3/5/2024 12:08:50 PM	Vial	57		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	81.799 %	91.091 %	0.010 ppb	304.953 ppb	7.024 ppb	1.979 ppb	2.232 ppb	56.463 ppb	78.040 %
Concentration per Run 1	82.755 %	96.961 %	0.012 ppb	282.688 ppb	6.146 ppb	2.010 ppb	-1.909 ppb	44.550 ppb	78.611 %
Concentration per Run 2	81.969 %	92.196 %	0.006 ppb	307.445 ppb	8.626 ppb	2.154 ppb	7.602 ppb	65.741 ppb	78.151 %
Concentration per Run 3	80.672 %	84.116 %	0.011 ppb	324.726 ppb	6.300 ppb	1.773 ppb	1.005 ppb	59.099 ppb	77.360 %
Concentration RSD	1.3 %	7.1 %	30.3 %	6.9 %	19.8 %	9.7 %	218.3 %	19.2 %	0.8 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.034 ppb	0.142 ppb	0.016 ppb	3.194 ppb	0.000 ppb	0.024 ppb	0.194 ppb	0.190 ppb	82.306 %
Concentration per Run 1	0.042 ppb	0.121 ppb	0.007 ppb	4.914 ppb	0.002 ppb	0.005 ppb	0.197 ppb	0.180 ppb	78.667 %
Concentration per Run 2	0.041 ppb	0.177 ppb	0.021 ppb	1.997 ppb	-0.002 ppb	0.057 ppb	0.231 ppb	0.221 ppb	83.402 %
Concentration per Run 3	0.018 ppb	0.129 ppb	0.021 ppb	2.672 ppb	0.000 ppb	0.009 ppb	0.152 ppb	0.169 ppb	84.849 %
Concentration RSD	40.7 %	21.5 %	48.5 %	47.8 %	897.6 %	122.2 %	20.5 %	14.4 %	3.9 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.016 ppb	0.022 ppb	0.109 ppb	0.093 ppb	84.094 %	0.001 ppb	0.001 ppb	84.610 %	0.158 ppb
Concentration per Run 1	0.031 ppb	-0.013 ppb	0.100 ppb	0.056 ppb	83.931 %	0.001 ppb	0.001 ppb	83.402 %	0.144 ppb
Concentration per Run 2	0.000 ppb	0.039 ppb	0.112 ppb	0.078 ppb	84.439 %	0.002 ppb	0.001 ppb	84.986 %	0.151 ppb
Concentration per Run 3	0.019 ppb	0.039 ppb	0.113 ppb	0.147 ppb	83.911 %	0.001 ppb	0.000 ppb	85.443 %	0.180 ppb
Concentration RSD	95.6 %	136.2 %	6.6 %	50.6 %	0.4 %	28.0 %	86.6 %	1.3 %	11.9 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	0.170 ppb	89.690 %	90.215 %	0.042 ppb	0.018 ppb
Concentration per Run 1	0.144 ppb	88.133 %	87.386 %	0.030 ppb	0.018 ppb
Concentration per Run 2	0.141 ppb	90.575 %	91.249 %	0.050 ppb	0.018 ppb
Concentration per Run 3	0.226 ppb	90.362 %	92.010 %	0.047 ppb	0.019 ppb
Concentration RSD	28.5 %	1.5 %	2.7 %	25.9 %	4.3 %

Alpha ICPMSQ Data with SRD

3/5/2024 4:47:09 PM

Analysis index:	83	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	WG1891188-2d10 6020SL	Rack	2		
Analysis started at:	3/5/2024 12:19:42 PM	Vial	1		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	79.988 %	93.163 %	5.091 ppb	975.758 ppb	961.838 ppb	198.462 ppb	1,019.244 ppb	878.382 ppb	80.363 %
Concentration per Run 1	81.481 %	95.304 %	5.079 ppb	954.765 ppb	925.410 ppb	189.090 ppb	966.382 ppb	794.438 ppb	81.309 %
Concentration per Run 2	79.746 %	93.439 %	5.092 ppb	996.731 ppb	992.128 ppb	209.529 ppb	1,081.838 ppb	962.479 ppb	79.406 %
Concentration per Run 3	78.737 %	90.746 %	5.103 ppb	975.779 ppb	967.975 ppb	196.766 ppb	1,009.511 ppb	878.230 ppb	80.375 %
Concentration RSD	1.7 %	2.5 %	0.2 %	2.2 %	3.5 %	5.2 %	5.7 %	9.6 %	1.2 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	49.123 ppb	20.046 ppb	52.056 ppb	104.954 ppb	50.315 ppb	50.680 ppb	25.591 ppb	50.512 ppb	85.771 %
Concentration per Run 1	48.440 ppb	20.430 ppb	51.040 ppb	103.607 ppb	51.089 ppb	52.349 ppb	27.137 ppb	51.111 ppb	81.579 %
Concentration per Run 2	49.021 ppb	20.056 ppb	53.204 ppb	106.323 ppb	49.913 ppb	49.958 ppb	24.690 ppb	50.273 ppb	89.256 %
Concentration per Run 3	49.909 ppb	19.652 ppb	51.925 ppb	104.934 ppb	49.944 ppb	49.732 ppb	24.947 ppb	50.152 ppb	86.478 %
Concentration RSD	1.5 %	1.9 %	2.1 %	1.3 %	1.3 %	2.9 %	5.3 %	1.0 %	4.5 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	12.377 ppb	12.765 ppb	102.587 ppb	101.419 ppb	86.767 %	5.049 ppb	5.484 ppb	89.014 %	44.672 ppb
Concentration per Run 1	12.766 ppb	11.473 ppb	101.692 ppb	103.593 ppb	85.829 %	5.028 ppb	5.415 ppb	87.650 %	43.912 ppb
Concentration per Run 2	12.572 ppb	14.170 ppb	105.127 ppb	101.112 ppb	89.171 %	4.952 ppb	5.542 ppb	93.493 %	43.961 ppb
Concentration per Run 3	11.794 ppb	12.652 ppb	100.944 ppb	99.553 ppb	85.300 %	5.167 ppb	5.496 ppb	85.900 %	46.142 ppb
Concentration RSD	4.2 %	10.6 %	2.2 %	2.0 %	2.4 %	2.2 %	1.2 %	4.5 %	2.9 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	205.900 ppb	93.959 %	96.830 %	11.630 ppb	52.622 ppb
Concentration per Run 1	201.211 ppb	91.640 %	93.769 %	11.852 ppb	53.653 ppb
Concentration per Run 2	206.867 ppb	97.661 %	102.935 %	11.244 ppb	50.692 ppb
Concentration per Run 3	209.623 ppb	92.575 %	93.784 %	11.793 ppb	53.522 ppb
Concentration RSD	2.1 %	3.4 %	5.5 %	2.9 %	3.2 %

Alpha ICPMSQ Data with SRD

3/5/2024 4:47:09 PM

Analysis index:	84	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	I2410453-07 6020TL	Rack	1		
Analysis started at:	3/5/2024 12:26:26 PM	Vial	52		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	77.216 %	80.387 %	0.028 ppb	215,453.959 ppb	42,772.187 ppb	127.773 ppb	9,839.652 ppb	188,116.803 ppb	94.389 %
Concentration per Run 1	78.016 %	80.594 %	0.035 ppb	207,363.452 ppb	40,077.182 ppb	121.107 ppb	9,515.367 ppb	181,186.456 ppb	94.581 %
Concentration per Run 2	78.015 %	83.494 %	0.022 ppb	213,431.967 ppb	43,638.650 ppb	128.293 ppb	9,782.474 ppb	185,661.823 ppb	95.247 %
Concentration per Run 3	75.618 %	77.072 %	0.026 ppb	225,566.459 ppb	44,600.727 ppb	133.919 ppb	10,221.116 ppb	197,502.129 ppb	93.340 %
Concentration RSD	1.8 %	4.0 %	23.3 %	4.3 %	5.6 %	5.0 %	3.6 %	4.5 %	1.0 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.485 ppb	0.503 ppb	8,134.581 ppb	18,752.739 ppb	0.289 ppb	2.082 ppb	0.693 ppb	8.204 ppb	79.190 %
Concentration per Run 1	0.488 ppb	0.496 ppb	7,961.180 ppb	18,717.842 ppb	0.287 ppb	2.168 ppb	0.707 ppb	8.336 ppb	74.895 %
Concentration per Run 2	0.502 ppb	0.458 ppb	8,307.504 ppb	18,952.913 ppb	0.297 ppb	2.083 ppb	0.647 ppb	8.123 ppb	80.295 %
Concentration per Run 3	0.464 ppb	0.556 ppb	8,135.058 ppb	18,587.464 ppb	0.283 ppb	1.996 ppb	0.725 ppb	8.153 ppb	82.379 %
Concentration RSD	3.9 %	9.8 %	2.1 %	1.0 %	2.4 %	4.1 %	5.9 %	1.4 %	4.9 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	3.158 ppb	0.276 ppb	657.136 ppb	1.719 ppb	75.312 %	0.004 ppb	0.047 ppb	80.853 %	2.723 ppb
Concentration per Run 1	3.126 ppb	0.271 ppb	634.942 ppb	1.895 ppb	73.966 %	0.003 ppb	0.032 ppb	80.241 %	2.785 ppb
Concentration per Run 2	3.138 ppb	0.473 ppb	674.066 ppb	1.657 ppb	76.359 %	0.003 ppb	0.050 ppb	82.374 %	2.693 ppb
Concentration per Run 3	3.210 ppb	0.084 ppb	662.399 ppb	1.604 ppb	75.609 %	0.005 ppb	0.060 ppb	79.942 %	2.691 ppb
Concentration RSD	1.4 %	70.6 %	3.1 %	9.0 %	1.6 %	24.8 %	29.5 %	1.6 %	2.0 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	881.404 ppb	88.947 %	89.818 %	0.056 ppb	0.577 ppb
Concentration per Run 1	822.179 ppb	89.471 %	88.318 %	0.062 ppb	0.578 ppb
Concentration per Run 2	891.380 ppb	88.961 %	90.338 %	0.059 ppb	0.578 ppb
Concentration per Run 3	930.653 ppb	88.410 %	90.799 %	0.046 ppb	0.575 ppb
Concentration RSD	6.2 %	0.6 %	1.5 %	15.5 %	0.2 %

Alpha ICPMSQ Data with SRD

3/5/2024 4:47:09 PM

Analysis index:	85	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	I2410453-08 6020TL	Rack	1		
Analysis started at:	3/5/2024 12:31:03 PM	Vial	53		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	78.769 %	82.182 %	0.018 ppb	166,924.108 ppb	13,824.825 ppb	70.561 ppb	7,826.614 ppb	88,506.581 ppb	88.192 %
Concentration per Run 1	79.677 %	72.928 %	0.010 ppb	176,325.534 ppb	14,758.389 ppb	74.978 ppb	8,008.778 ppb	92,135.755 ppb	87.856 %
Concentration per Run 2	78.123 %	89.917 %	0.020 ppb	153,083.255 ppb	12,492.895 ppb	64.922 ppb	7,252.720 ppb	82,748.204 ppb	88.465 %
Concentration per Run 3	78.508 %	83.701 %	0.022 ppb	171,363.536 ppb	14,223.191 ppb	71.783 ppb	8,218.343 ppb	90,635.785 ppb	88.255 %
Concentration RSD	1.0 %	10.5 %	36.5 %	7.3 %	8.6 %	7.3 %	6.5 %	5.7 %	0.4 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	4.379 ppb	3.594 ppb	324.409 ppb	1,021.312 ppb	0.123 ppb	0.557 ppb	1.118 ppb	1.588 ppb	85.601 %
Concentration per Run 1	4.855 ppb	4.010 ppb	341.119 ppb	1,086.747 ppb	0.118 ppb	0.530 ppb	1.336 ppb	1.746 ppb	77.978 %
Concentration per Run 2	4.148 ppb	3.280 ppb	298.056 ppb	930.350 ppb	0.128 ppb	0.572 ppb	0.977 ppb	1.428 ppb	92.328 %
Concentration per Run 3	4.133 ppb	3.492 ppb	334.051 ppb	1,046.838 ppb	0.123 ppb	0.569 ppb	1.042 ppb	1.591 ppb	86.497 %
Concentration RSD	9.4 %	10.4 %	7.1 %	8.0 %	4.0 %	4.2 %	17.1 %	10.0 %	8.4 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.975 ppb	0.874 ppb	312.780 ppb	0.906 ppb	79.903 %	0.004 ppb	0.008 ppb	82.632 %	1.108 ppb
Concentration per Run 1	0.929 ppb	0.817 ppb	324.741 ppb	0.784 ppb	74.551 %	0.005 ppb	0.011 ppb	74.408 %	1.146 ppb
Concentration per Run 2	0.940 ppb	0.774 ppb	294.378 ppb	0.865 ppb	84.089 %	0.004 ppb	0.005 ppb	88.902 %	1.074 ppb
Concentration per Run 3	1.056 ppb	1.031 ppb	319.222 ppb	1.071 ppb	81.070 %	0.005 ppb	0.010 ppb	84.586 %	1.103 ppb
Concentration RSD	7.2 %	15.7 %	5.2 %	16.3 %	6.1 %	14.3 %	34.1 %	9.0 %	3.2 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	78.387 ppb	89.868 %	91.245 %	0.023 ppb	0.091 ppb
Concentration per Run 1	83.111 ppb	80.743 %	82.547 %	0.017 ppb	0.101 ppb
Concentration per Run 2	73.795 ppb	96.069 %	98.145 %	0.024 ppb	0.084 ppb
Concentration per Run 3	78.257 ppb	92.792 %	93.044 %	0.029 ppb	0.089 ppb
Concentration RSD	5.9 %	9.0 %	8.7 %	24.5 %	9.7 %

Alpha ICPMSQ Data with SRD

3/5/2024 4:47:09 PM

Analysis index:	86	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	I2410453-09 6020TL	Rack	1		
Analysis started at:	3/5/2024 12:35:40 PM	Vial	54		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	81.130 %	88.329 %	0.006 ppb	70,287.586 ppb	13,790.985 ppb	26.377 ppb	9,341.542 ppb	149,294.662 ppb	86.774 %
Concentration per Run 1	81.868 %	90.124 %	0.001 ppb	66,913.428 ppb	13,103.068 ppb	25.048 ppb	8,955.327 ppb	144,901.679 ppb	87.292 %
Concentration per Run 2	81.604 %	95.097 %	0.009 ppb	66,750.904 ppb	13,126.629 ppb	23.711 ppb	9,232.111 ppb	148,290.399 ppb	86.913 %
Concentration per Run 3	79.919 %	79.765 %	0.007 ppb	77,198.427 ppb	15,143.258 ppb	30.372 ppb	9,837.190 ppb	154,691.908 ppb	86.116 %
Concentration RSD	1.3 %	8.9 %	69.9 %	8.5 %	8.5 %	13.4 %	4.8 %	3.3 %	0.7 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	1.790 ppb	1.409 ppb	1,205.145 ppb	2,880.176 ppb	1.134 ppb	0.683 ppb	0.654 ppb	5.953 ppb	87.154 %
Concentration per Run 1	1.759 ppb	1.348 ppb	1,187.248 ppb	2,901.860 ppb	1.160 ppb	0.749 ppb	0.665 ppb	6.259 ppb	84.193 %
Concentration per Run 2	1.918 ppb	1.398 ppb	1,187.799 ppb	2,812.052 ppb	1.091 ppb	0.610 ppb	0.592 ppb	5.768 ppb	88.699 %
Concentration per Run 3	1.692 ppb	1.479 ppb	1,240.388 ppb	2,926.618 ppb	1.152 ppb	0.689 ppb	0.705 ppb	5.833 ppb	88.569 %
Concentration RSD	6.5 %	4.7 %	2.5 %	2.1 %	3.3 %	10.2 %	8.7 %	4.5 %	2.9 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	1.237 ppb	0.153 ppb	518.150 ppb	0.380 ppb	80.850 %	0.004 ppb	0.044 ppb	84.538 %	0.618 ppb
Concentration per Run 1	1.313 ppb	0.036 ppb	504.518 ppb	0.278 ppb	78.781 %	0.004 ppb	0.047 ppb	80.090 %	0.610 ppb
Concentration per Run 2	1.133 ppb	0.142 ppb	524.034 ppb	0.414 ppb	80.949 %	0.004 ppb	0.050 ppb	85.727 %	0.626 ppb
Concentration per Run 3	1.264 ppb	0.280 ppb	525.899 ppb	0.447 ppb	82.820 %	0.004 ppb	0.034 ppb	87.799 %	0.619 ppb
Concentration RSD	7.5 %	80.0 %	2.3 %	23.6 %	2.5 %	2.9 %	19.0 %	4.7 %	1.3 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	154.342 ppb	90.024 %	92.578 %	0.019 ppb	0.350 ppb
Concentration per Run 1	154.611 ppb	86.724 %	88.952 %	0.011 ppb	0.358 ppb
Concentration per Run 2	153.209 ppb	91.723 %	94.038 %	0.024 ppb	0.355 ppb
Concentration per Run 3	155.207 ppb	91.625 %	94.744 %	0.022 ppb	0.335 ppb
Concentration RSD	0.7 %	3.2 %	3.4 %	38.6 %	3.5 %

Alpha ICPMSQ Data with SRD

3/5/2024 4:47:09 PM

Analysis index:	87	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	I2410453-10 6020TL	Rack	1		
Analysis started at:	3/5/2024 12:40:18 PM	Vial	55		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	73.977 %	83.287 %	0.036 ppb	242,252.425 ppb	18,764.298 ppb	440.361 ppb	9,339.319 ppb	90,269.435 ppb	87.164 %
Concentration per Run 1	75.652 %	85.152 %	0.026 ppb	235,791.158 ppb	18,469.748 ppb	425.470 ppb	9,117.166 ppb	90,122.835 ppb	88.218 %
Concentration per Run 2	73.207 %	88.260 %	0.042 ppb	233,155.639 ppb	17,738.638 ppb	410.955 ppb	9,041.061 ppb	86,382.516 ppb	85.909 %
Concentration per Run 3	73.073 %	76.450 %	0.041 ppb	257,810.480 ppb	20,084.506 ppb	484.658 ppb	9,859.730 ppb	94,302.953 ppb	87.366 %
Concentration RSD	2.0 %	7.3 %	24.2 %	5.6 %	6.4 %	8.9 %	4.8 %	4.4 %	1.3 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	1.290 ppb	1.047 ppb	3,510.166 ppb	23,123.778 ppb	0.719 ppb	1.241 ppb	1.821 ppb	4.382 ppb	80.139 %
Concentration per Run 1	1.528 ppb	1.064 ppb	3,490.610 ppb	23,179.050 ppb	0.705 ppb	1.179 ppb	1.876 ppb	4.531 ppb	79.950 %
Concentration per Run 2	1.095 ppb	0.973 ppb	3,328.803 ppb	22,106.920 ppb	0.731 ppb	1.233 ppb	1.795 ppb	4.396 ppb	80.563 %
Concentration per Run 3	1.246 ppb	1.104 ppb	3,711.086 ppb	24,085.364 ppb	0.720 ppb	1.311 ppb	1.792 ppb	4.219 ppb	79.904 %
Concentration RSD	17.0 %	6.4 %	5.5 %	4.3 %	1.9 %	5.3 %	2.6 %	3.6 %	0.5 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	9.180 ppb	0.260 ppb	521.147 ppb	0.603 ppb	74.679 %	0.010 ppb	0.011 ppb	80.676 %	0.367 ppb
Concentration per Run 1	9.005 ppb	0.361 ppb	514.742 ppb	0.485 ppb	75.178 %	0.011 ppb	0.015 ppb	80.224 %	0.348 ppb
Concentration per Run 2	9.115 ppb	0.102 ppb	521.934 ppb	0.598 ppb	74.532 %	0.008 ppb	0.009 ppb	81.226 %	0.349 ppb
Concentration per Run 3	9.420 ppb	0.317 ppb	526.766 ppb	0.726 ppb	74.328 %	0.012 ppb	0.010 ppb	80.578 %	0.405 ppb
Concentration RSD	2.3 %	53.3 %	1.2 %	20.0 %	0.6 %	22.5 %	27.4 %	0.6 %	8.8 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	416.774 ppb	87.438 %	89.168 %	0.020 ppb	1.155 ppb
Concentration per Run 1	416.112 ppb	87.843 %	88.600 %	0.012 ppb	1.168 ppb
Concentration per Run 2	408.332 ppb	88.549 %	89.840 %	0.020 ppb	1.152 ppb
Concentration per Run 3	425.878 ppb	85.921 %	89.063 %	0.028 ppb	1.145 ppb
Concentration RSD	2.1 %	1.6 %	0.7 %	39.8 %	1.0 %

Alpha ICPMSQ Data with SRD

3/5/2024 4:47:09 PM

Analysis index:	88	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	L2408819-04 6020SL	Rack	2		
Analysis started at:	3/5/2024 12:44:56 PM	Vial	7		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	80.942 %	88.743 %	0.003 ppb	5,573.221 ppb	12,020.766 ppb	5.741 ppb	1,667.587 ppb	76,923.744 ppb	84.682 %
Concentration per Run 1	82.024 %	93.439 %	0.001 ppb	5,421.694 ppb	11,530.944 ppb	6.221 ppb	1,632.860 ppb	76,700.255 ppb	84.833 %
Concentration per Run 2	80.829 %	87.845 %	0.005 ppb	5,486.668 ppb	12,078.983 ppb	4.836 ppb	1,608.573 ppb	74,360.066 ppb	84.201 %
Concentration per Run 3	79.974 %	84.945 %	0.004 ppb	5,811.299 ppb	12,452.370 ppb	6.165 ppb	1,761.328 ppb	79,710.910 ppb	85.012 %
Concentration RSD	1.3 %	4.9 %	74.3 %	3.7 %	3.9 %	13.7 %	4.9 %	3.5 %	0.5 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.014 ppb	0.189 ppb	848.381 ppb	7,884.569 ppb	3.726 ppb	29.117 ppb	0.255 ppb	42.610 ppb	85.606 %
Concentration per Run 1	0.000 ppb	0.190 ppb	837.074 ppb	7,800.411 ppb	3.686 ppb	28.759 ppb	0.271 ppb	43.708 ppb	85.982 %
Concentration per Run 2	0.001 ppb	0.200 ppb	863.887 ppb	7,972.738 ppb	3.819 ppb	28.681 ppb	0.262 ppb	42.208 ppb	85.468 %
Concentration per Run 3	0.042 ppb	0.177 ppb	844.182 ppb	7,880.558 ppb	3.673 ppb	29.910 ppb	0.233 ppb	41.914 ppb	85.370 %
Concentration RSD	164.5 %	6.2 %	1.6 %	1.1 %	2.2 %	2.4 %	7.7 %	2.3 %	0.4 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.213 ppb	0.135 ppb	276.370 ppb	1.169 ppb	81.361 %	0.009 ppb	0.018 ppb	85.831 %	0.507 ppb
Concentration per Run 1	0.243 ppb	0.074 ppb	278.929 ppb	1.133 ppb	80.435 %	0.011 ppb	0.015 ppb	83.095 %	0.496 ppb
Concentration per Run 2	0.205 ppb	0.184 ppb	274.619 ppb	1.118 ppb	82.865 %	0.008 ppb	0.017 ppb	86.826 %	0.498 ppb
Concentration per Run 3	0.192 ppb	0.147 ppb	275.563 ppb	1.256 ppb	80.782 %	0.008 ppb	0.023 ppb	87.572 %	0.528 ppb
Concentration RSD	12.4 %	41.6 %	0.8 %	6.5 %	1.6 %	25.0 %	20.9 %	2.8 %	3.5 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	133.902 ppb	90.611 %	92.273 %	0.016 ppb	0.085 ppb
Concentration per Run 1	140.203 ppb	88.272 %	90.405 %	0.009 ppb	0.090 ppb
Concentration per Run 2	131.968 ppb	90.082 %	93.238 %	0.020 ppb	0.080 ppb
Concentration per Run 3	129.535 ppb	93.479 %	93.176 %	0.018 ppb	0.085 ppb
Concentration RSD	4.2 %	2.9 %	1.8 %	38.4 %	5.4 %

Alpha ICPMSQ Data with SRD

3/5/2024 4:47:09 PM

Analysis index: 89
Analysis label: WG1891188-6d5 6020SL
Analysis started at: 3/5/2024 12:49:35 PM

User name ALPHALAB\Metals-Instrument
Rack 2
Vial 6

Comment <Comment>

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	80.310 %	88.605 %	0.050 ppb	9,414.512 ppb	2,212.836 ppb	134.467 ppb	635.224 ppb	20,977.484 ppb	81.256 %
Concentration per Run 1	82.867 %	92.403 %	0.050 ppb	9,110.750 ppb	2,078.708 ppb	134.327 ppb	645.021 ppb	21,678.673 ppb	83.677 %
Concentration per Run 2	80.072 %	90.331 %	0.050 ppb	9,082.534 ppb	2,134.743 ppb	130.825 ppb	624.735 ppb	20,111.431 ppb	80.542 %
Concentration per Run 3	77.991 %	83.080 %	0.050 ppb	10,050.252 ppb	2,425.057 ppb	138.250 ppb	635.916 ppb	21,142.348 ppb	79.547 %
Concentration RSD	3.0 %	5.5 %	0.3 %	5.8 %	8.4 %	2.8 %	1.6 %	3.8 %	2.7 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.263 ppb	0.243 ppb	225.795 ppb	1,304.118 ppb	0.820 ppb	3.754 ppb	0.611 ppb	4.731 ppb	83.196 %
Concentration per Run 1	0.180 ppb	0.252 ppb	223.970 ppb	1,321.448 ppb	0.802 ppb	3.794 ppb	0.646 ppb	4.958 ppb	80.862 %
Concentration per Run 2	0.308 ppb	0.190 ppb	228.902 ppb	1,285.335 ppb	0.807 ppb	3.614 ppb	0.586 ppb	4.630 ppb	82.953 %
Concentration per Run 3	0.302 ppb	0.288 ppb	224.514 ppb	1,305.571 ppb	0.852 ppb	3.854 ppb	0.601 ppb	4.604 ppb	85.775 %
Concentration RSD	27.3 %	20.4 %	1.2 %	1.4 %	3.4 %	3.3 %	5.2 %	4.2 %	3.0 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.442 ppb	0.171 ppb	121.732 ppb	1.764 ppb	82.791 %	0.002 ppb	0.002 ppb	87.417 %	0.416 ppb
Concentration per Run 1	0.401 ppb	0.150 ppb	124.020 ppb	1.841 ppb	82.128 %	0.001 ppb	0.001 ppb	87.335 %	0.377 ppb
Concentration per Run 2	0.478 ppb	0.186 ppb	121.903 ppb	1.722 ppb	82.574 %	0.000 ppb	0.001 ppb	89.043 %	0.443 ppb
Concentration per Run 3	0.447 ppb	0.177 ppb	119.273 ppb	1.729 ppb	83.672 %	0.003 ppb	0.003 ppb	85.873 %	0.428 ppb
Concentration RSD	8.7 %	10.9 %	2.0 %	3.8 %	1.0 %	97.7 %	44.1 %	1.8 %	8.4 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	18.848 ppb	90.595 %	93.187 %	0.012 ppb	0.166 ppb
Concentration per Run 1	19.117 ppb	90.828 %	92.431 %	0.005 ppb	0.173 ppb
Concentration per Run 2	18.567 ppb	90.599 %	93.309 %	0.014 ppb	0.164 ppb
Concentration per Run 3	18.859 ppb	90.357 %	93.822 %	0.017 ppb	0.162 ppb
Concentration RSD	1.5 %	0.3 %	0.8 %	49.6 %	3.3 %

Alpha ICPMSQ Data with SRD

3/5/2024 4:47:09 PM

Analysis index:	90	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	CCV	Rack	0		
Analysis started at:	3/5/2024 12:54:13 PM	Vial	9		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	78.642 %	87.707 %	61.567 ppb	5,842.816 ppb	5,975.588 ppb	62.912 ppb	5,896.273 ppb	5,964.785 ppb	83.568 %
Concentration per Run 1	80.140 %	85.152 %	61.383 ppb	5,872.865 ppb	5,899.353 ppb	62.269 ppb	5,885.365 ppb	5,871.665 ppb	84.664 %
Concentration per Run 2	77.926 %	85.359 %	61.485 ppb	6,103.205 ppb	6,275.196 ppb	66.222 ppb	6,142.730 ppb	6,095.438 ppb	83.374 %
Concentration per Run 3	77.860 %	92.610 %	61.833 ppb	5,552.378 ppb	5,752.215 ppb	60.245 ppb	5,660.726 ppb	5,927.251 ppb	82.665 %
Recovery Percentage 1			102.612 %	97.380 %	99.593 %	104.854 %	98.271 %	99.413 %	
Concentration RSD	1.7 %	4.8 %	0.4 %	4.7 %	4.5 %	4.8 %	4.1 %	2.0 %	1.2 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	60.653 ppb	60.741 ppb	60.915 ppb	5,876.984 ppb	60.288 ppb	62.024 ppb	61.040 ppb	60.779 ppb	84.273 %
Concentration per Run 1	60.329 ppb	60.391 ppb	58.569 ppb	5,732.347 ppb	59.828 ppb	61.316 ppb	59.330 ppb	59.579 ppb	86.811 %
Concentration per Run 2	61.990 ppb	62.642 ppb	65.484 ppb	6,097.702 ppb	62.588 ppb	64.300 ppb	63.444 ppb	63.189 ppb	81.696 %
Concentration per Run 3	59.639 ppb	59.190 ppb	58.692 ppb	5,800.904 ppb	58.448 ppb	60.457 ppb	60.347 ppb	59.569 ppb	84.312 %
Recovery Percentage 1	101.088 %	101.235 %	101.525 %	97.950 %	100.480 %	103.374 %	101.734 %	101.298 %	
Concentration RSD	2.0 %	2.9 %	6.5 %	3.3 %	3.5 %	3.3 %	3.5 %	3.4 %	3.0 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	60.896 ppb	62.434 ppb	62.462 ppb	60.038 ppb	82.708 %	62.140 ppb	62.620 ppb	83.877 %	56.896 ppb
Concentration per Run 1	59.686 ppb	61.791 ppb	60.501 ppb	57.827 ppb	84.374 %	61.762 ppb	61.873 ppb	86.094 %	55.781 ppb
Concentration per Run 2	63.669 ppb	62.852 ppb	64.255 ppb	62.127 ppb	80.456 %	62.898 ppb	63.565 ppb	82.942 %	56.938 ppb
Concentration per Run 3	59.334 ppb	62.660 ppb	62.630 ppb	60.160 ppb	83.294 %	61.761 ppb	62.422 ppb	82.595 %	57.970 ppb
Recovery Percentage 1	101.493 %	104.057 %	104.103 %	100.063 %		103.567 %	104.366 %		94.827 %
Concentration RSD	4.0 %	0.9 %	3.0 %	3.6 %	2.4 %	1.1 %	1.4 %	2.3 %	1.9 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	61.642 ppb	89.122 %	91.725 %	61.665 ppb	61.297 ppb
Concentration per Run 1	62.386 ppb	88.665 %	92.847 %	60.319 ppb	60.837 ppb
Concentration per Run 2	61.207 ppb	88.217 %	90.048 %	63.155 ppb	62.690 ppb
Concentration per Run 3	61.332 ppb	90.484 %	92.281 %	61.522 ppb	60.364 ppb
Recovery Percentage 1	102.736 %			102.775 %	102.162 %
Concentration RSD	1.1 %	1.3 %	1.6 %	2.3 %	2.0 %

Alpha ICPMSQ Data with SRD

3/5/2024 4:47:09 PM

Analysis index:	91	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	CCB	Rack	0		
Analysis started at:	3/5/2024 12:58:55 PM	Vial	10		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	78.601 %	85.083 %	0.009 ppb	7.287 ppb	-0.250 ppb	-0.020 ppb	-0.427 ppb	-0.963 ppb	72.120 %
Concentration per Run 1	79.359 %	82.458 %	0.012 ppb	6.986 ppb	-0.064 ppb	0.038 ppb	3.104 ppb	0.793 ppb	72.646 %
Concentration per Run 2	78.447 %	82.873 %	0.009 ppb	7.425 ppb	-0.321 ppb	-0.063 ppb	-5.245 ppb	-3.903 ppb	71.946 %
Concentration per Run 3	77.996 %	89.917 %	0.005 ppb	7.450 ppb	-0.365 ppb	-0.034 ppb	0.861 ppb	0.222 ppb	71.768 %
Recovery Percentage 1			1.767 %	7.287 %	-0.357 %	-0.198 %	-0.427 %	-0.963 %	
Concentration RSD	0.9 %	4.9 %	39.8 %	3.6 %	65.0 %	262.1 %	1,012.4 %	266.1 %	0.6 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.012 ppb	-0.007 ppb	-0.002 ppb	13.027 ppb	0.000 ppb	0.011 ppb	0.004 ppb	0.094 ppb	83.005 %
Concentration per Run 1	-0.014 ppb	0.004 ppb	0.025 ppb	13.323 ppb	0.002 ppb	0.043 ppb	-0.008 ppb	0.134 ppb	79.129 %
Concentration per Run 2	-0.006 ppb	-0.013 ppb	-0.022 ppb	11.387 ppb	-0.002 ppb	0.042 ppb	0.006 ppb	0.081 ppb	80.034 %
Concentration per Run 3	-0.015 ppb	-0.012 ppb	-0.010 ppb	14.372 ppb	0.000 ppb	-0.053 ppb	0.014 ppb	0.066 ppb	89.852 %
Recovery Percentage 1	-0.237 %	-0.686 %	-0.218 %	26.055 %	-0.043 %	0.538 %	0.427 %	1.876 %	
Concentration RSD	43.5 %	139.3 %	1,108.1 %	11.6 %	974.7 %	512.7 %	260.2 %	38.1 %	7.2 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.079 ppb	0.279 ppb	-0.001 ppb	0.925 ppb	82.684 %	0.006 ppb	0.004 ppb	84.299 %	0.846 ppb
Concentration per Run 1	0.140 ppb	0.181 ppb	0.002 ppb	0.948 ppb	81.978 %	0.007 ppb	0.003 ppb	82.614 %	0.854 ppb
Concentration per Run 2	0.051 ppb	0.293 ppb	0.002 ppb	0.953 ppb	81.483 %	0.006 ppb	0.004 ppb	82.845 %	0.830 ppb
Concentration per Run 3	0.045 ppb	0.363 ppb	-0.006 ppb	0.876 ppb	84.590 %	0.005 ppb	0.005 ppb	87.437 %	0.852 ppb
Recovery Percentage 1	15.754 %	5.584 %	-0.008 %	46.274 %		1.489 %	2.030 %		21.138 %
Concentration RSD	67.8 %	32.9 %	542.2 %	4.6 %	2.0 %	18.9 %	30.9 %	3.2 %	1.6 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	0.005 ppb	86.413 %	89.133 %	0.375 ppb	0.047 ppb
Concentration per Run 1	0.004 ppb	85.611 %	85.236 %	0.374 ppb	0.052 ppb
Concentration per Run 2	0.004 ppb	84.120 %	87.697 %	0.427 ppb	0.047 ppb
Concentration per Run 3	0.009 ppb	89.507 %	94.467 %	0.322 ppb	0.041 ppb
Recovery Percentage 1	1.062 %			37.458 %	4.674 %
Concentration RSD	54.9 %	3.2 %	5.4 %	14.0 %	11.0 %

Alpha ICPMSQ Data with SRD

3/5/2024 4:47:09 PM

Analysis index:	92	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	WG1891188-3d10 6020SL	Rack	2		
Analysis started at:	3/5/2024 1:05:34 PM	Vial	3		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	80.166 %	85.566 %	5.190 ppb	5,694.812 ppb	2,099.335 ppb	258.671 ppb	1,306.225 ppb	11,217.947 ppb	79.600 %
Concentration per Run 1	81.366 %	84.737 %	5.182 ppb	5,782.290 ppb	2,127.776 ppb	257.337 ppb	1,350.687 ppb	11,380.070 ppb	79.843 %
Concentration per Run 2	79.813 %	82.044 %	5.278 ppb	5,736.369 ppb	2,097.161 ppb	269.389 ppb	1,292.036 ppb	11,213.488 ppb	79.359 %
Concentration per Run 3	79.319 %	89.917 %	5.109 ppb	5,565.776 ppb	2,073.067 ppb	249.287 ppb	1,275.951 ppb	11,060.284 ppb	79.598 %
Concentration RSD	1.3 %	4.7 %	1.6 %	2.0 %	1.3 %	3.9 %	3.0 %	1.4 %	0.3 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	49.355 ppb	19.893 ppb	161.760 ppb	747.950 ppb	49.711 ppb	52.223 ppb	25.562 ppb	51.750 ppb	82.944 %
Concentration per Run 1	48.739 ppb	20.067 ppb	161.425 ppb	735.067 ppb	50.142 ppb	52.060 ppb	25.284 ppb	51.291 ppb	83.293 %
Concentration per Run 2	51.056 ppb	20.172 ppb	163.643 ppb	760.006 ppb	50.826 ppb	53.409 ppb	26.719 ppb	53.540 ppb	79.581 %
Concentration per Run 3	48.271 ppb	19.442 ppb	160.212 ppb	748.776 ppb	48.164 ppb	51.201 ppb	24.685 ppb	50.420 ppb	85.958 %
Concentration RSD	3.0 %	2.0 %	1.1 %	1.7 %	2.8 %	2.1 %	4.1 %	3.1 %	3.9 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	12.523 ppb	12.837 ppb	156.855 ppb	96.652 ppb	81.919 %	5.092 ppb	5.367 ppb	83.287 %	46.987 ppb
Concentration per Run 1	12.913 ppb	12.326 ppb	161.317 ppb	96.610 ppb	81.073 %	5.179 ppb	5.373 ppb	83.437 %	48.428 ppb
Concentration per Run 2	12.667 ppb	12.813 ppb	151.895 ppb	96.172 ppb	81.894 %	4.993 ppb	5.276 ppb	81.912 %	44.907 ppb
Concentration per Run 3	11.987 ppb	13.371 ppb	157.353 ppb	97.174 ppb	82.789 %	5.105 ppb	5.452 ppb	84.511 %	47.626 ppb
Concentration RSD	3.8 %	4.1 %	3.0 %	0.5 %	1.0 %	1.8 %	1.6 %	1.6 %	3.9 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	208.722 ppb	89.361 %	88.736 %	11.860 ppb	54.647 ppb
Concentration per Run 1	216.388 ppb	87.093 %	88.188 %	11.927 ppb	55.296 ppb
Concentration per Run 2	198.148 ppb	88.858 %	86.556 %	11.947 ppb	54.908 ppb
Concentration per Run 3	211.631 ppb	92.132 %	91.465 %	11.705 ppb	53.736 ppb
Concentration RSD	4.5 %	2.9 %	2.8 %	1.1 %	1.5 %

Alpha ICPMSQ Data with SRD

3/5/2024 4:47:09 PM

Analysis index: 93
Analysis label: WG1891188-5d10 6020SL
Analysis started at: 3/5/2024 1:10:12 PM
User name ALPHALAB\Metals-Instrument
Rack 2
Vial 5
Comment <Comment>

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	77.293 %	89.779 %	49.656 ppb	9,052.010 ppb	5,629.059 ppb	109.127 ppb	4,950.685 ppb	14,821.796 ppb	82.108 %
Concentration per Run 1	77.869 %	90.331 %	49.393 ppb	9,040.215 ppb	5,747.266 ppb	111.179 ppb	4,982.757 ppb	14,875.585 ppb	81.708 %
Concentration per Run 2	77.441 %	91.782 %	49.528 ppb	8,712.215 ppb	5,318.188 ppb	104.329 ppb	4,766.125 ppb	14,222.170 ppb	82.167 %
Concentration per Run 3	76.569 %	87.224 %	50.048 ppb	9,403.601 ppb	5,821.723 ppb	111.873 ppb	5,103.175 ppb	15,367.632 ppb	82.450 %
Concentration RSD	0.9 %	2.6 %	0.7 %	3.8 %	4.8 %	3.8 %	3.4 %	3.9 %	0.5 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	47.903 ppb	47.290 ppb	153.043 ppb	5,257.830 ppb	47.633 ppb	49.297 ppb	47.590 ppb	49.616 ppb	83.182 %
Concentration per Run 1	47.952 ppb	46.403 ppb	145.906 ppb	5,085.267 ppb	46.455 ppb	48.218 ppb	46.232 ppb	47.889 ppb	87.516 %
Concentration per Run 2	47.462 ppb	47.319 ppb	151.441 ppb	5,230.524 ppb	48.062 ppb	50.178 ppb	49.738 ppb	50.493 ppb	78.566 %
Concentration per Run 3	48.295 ppb	48.148 ppb	161.782 ppb	5,457.699 ppb	48.382 ppb	49.496 ppb	46.802 ppb	50.465 ppb	83.464 %
Concentration RSD	0.9 %	1.8 %	5.3 %	3.6 %	2.2 %	2.0 %	4.0 %	3.0 %	5.4 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	48.527 ppb	49.423 ppb	110.339 ppb	50.266 ppb	80.552 %	0.534 ppb	49.900 ppb	82.305 %	50.224 ppb
Concentration per Run 1	48.205 ppb	47.824 ppb	110.706 ppb	49.067 ppb	81.524 %	0.506 ppb	50.072 ppb	84.529 %	50.729 ppb
Concentration per Run 2	48.568 ppb	50.454 ppb	107.174 ppb	50.026 ppb	78.593 %	0.542 ppb	49.942 ppb	78.972 %	49.437 ppb
Concentration per Run 3	48.808 ppb	49.992 ppb	113.138 ppb	51.706 ppb	81.540 %	0.553 ppb	49.687 ppb	83.414 %	50.507 ppb
Concentration RSD	0.6 %	2.8 %	2.7 %	2.7 %	2.1 %	4.6 %	0.4 %	3.6 %	1.4 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	58.327 ppb	87.509 %	89.326 %	47.122 ppb	50.313 ppb
Concentration per Run 1	58.713 ppb	89.265 %	90.833 %	46.606 ppb	50.263 ppb
Concentration per Run 2	55.121 ppb	85.894 %	86.326 %	47.403 ppb	50.669 ppb
Concentration per Run 3	61.148 ppb	87.367 %	90.819 %	47.358 ppb	50.007 ppb
Concentration RSD	5.2 %	1.9 %	2.9 %	1.0 %	0.7 %

Alpha ICPMSQ Data with SRD

3/5/2024 4:47:09 PM

Analysis index:	94	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	WG1891188-4 6020SL	Rack	2		
Analysis started at:	3/5/2024 1:14:50 PM	Vial	4		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	75.821 %	79.972 %	0.221 ppb	50,706.216 ppb	11,158.005 ppb	653.081 ppb	3,224.006 ppb	105,456.375 ppb	87.347 %
Concentration per Run 1	76.737 %	76.864 %	0.220 ppb	52,414.902 ppb	11,638.388 ppb	664.074 ppb	3,250.492 ppb	106,931.287 ppb	88.057 %
Concentration per Run 2	75.731 %	81.008 %	0.229 ppb	48,863.427 ppb	10,603.533 ppb	610.582 ppb	3,128.942 ppb	102,338.810 ppb	87.518 %
Concentration per Run 3	74.996 %	82.044 %	0.214 ppb	50,840.318 ppb	11,232.095 ppb	684.588 ppb	3,292.582 ppb	107,099.029 ppb	86.466 %
Concentration RSD	1.2 %	3.4 %	3.3 %	3.5 %	4.7 %	5.9 %	2.6 %	2.6 %	0.9 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	1.458 ppb	1.018 ppb	1,098.931 ppb	6,288.455 ppb	3.704 ppb	17.627 ppb	2.663 ppb	22.079 ppb	82.799 %
Concentration per Run 1	1.519 ppb	1.034 ppb	1,137.465 ppb	6,496.984 ppb	3.835 ppb	18.428 ppb	2.600 ppb	22.175 ppb	84.289 %
Concentration per Run 2	1.387 ppb	0.992 ppb	1,047.902 ppb	6,110.520 ppb	3.536 ppb	17.499 ppb	2.588 ppb	21.617 ppb	81.156 %
Concentration per Run 3	1.469 ppb	1.029 ppb	1,111.424 ppb	6,257.862 ppb	3.741 ppb	16.954 ppb	2.802 ppb	22.447 ppb	82.953 %
Concentration RSD	4.6 %	2.3 %	4.2 %	3.1 %	4.1 %	4.2 %	4.5 %	1.9 %	1.9 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	2.057 ppb	0.711 ppb	602.266 ppb	9.552 ppb	76.635 %	0.006 ppb	0.016 ppb	81.088 %	1.688 ppb
Concentration per Run 1	2.110 ppb	0.751 ppb	610.558 ppb	9.276 ppb	76.806 %	0.003 ppb	0.014 ppb	81.359 %	1.680 ppb
Concentration per Run 2	1.952 ppb	0.720 ppb	574.613 ppb	9.532 ppb	76.262 %	0.010 ppb	0.016 ppb	77.754 %	1.726 ppb
Concentration per Run 3	2.109 ppb	0.660 ppb	621.625 ppb	9.849 ppb	76.837 %	0.006 ppb	0.017 ppb	84.151 %	1.658 ppb
Concentration RSD	4.4 %	6.5 %	4.1 %	3.0 %	0.4 %	57.5 %	8.3 %	4.0 %	2.1 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	95.117 ppb	87.711 %	89.719 %	0.425 ppb	0.726 ppb
Concentration per Run 1	95.566 ppb	87.518 %	89.447 %	0.382 ppb	0.728 ppb
Concentration per Run 2	93.845 ppb	85.511 %	86.456 %	0.512 ppb	0.737 ppb
Concentration per Run 3	95.941 ppb	90.104 %	93.253 %	0.383 ppb	0.713 ppb
Concentration RSD	1.2 %	2.6 %	3.8 %	17.5 %	1.7 %

Alpha ICPMSQ Data with SRD

3/5/2024 4:47:09 PM

Analysis index: 95
Analysis label: L2408819-02 6020SL
Analysis started at: 3/5/2024 1:19:29 PM
User name ALPHALAB\Metals-Instrument
Rack 2
Vial 2
Comment <Comment>

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	77.420 %	85.842 %	0.212 ppb	49,905.133 ppb	11,043.525 ppb	646.298 ppb	3,272.921 ppb	107,640.947 ppb	82.503 %
Concentration per Run 1	78.275 %	81.422 %	0.208 ppb	53,328.911 ppb	11,554.223 ppb	695.053 ppb	3,382.918 ppb	111,744.641 ppb	82.293 %
Concentration per Run 2	77.724 %	84.945 %	0.224 ppb	48,361.265 ppb	10,691.571 ppb	611.618 ppb	3,094.189 ppb	103,737.530 ppb	82.815 %
Concentration per Run 3	76.262 %	91.160 %	0.203 ppb	48,025.222 ppb	10,884.782 ppb	632.223 ppb	3,341.654 ppb	107,440.671 ppb	82.399 %
Concentration RSD	1.3 %	5.7 %	5.3 %	6.0 %	4.1 %	6.7 %	4.8 %	3.7 %	0.3 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	1.384 ppb	1.056 ppb	1,145.623 ppb	6,555.002 ppb	3.926 ppb	18.586 ppb	2.786 ppb	22.921 ppb	79.154 %
Concentration per Run 1	1.339 ppb	1.133 ppb	1,203.947 ppb	6,878.538 ppb	4.034 ppb	19.177 ppb	2.829 ppb	23.355 ppb	79.169 %
Concentration per Run 2	1.410 ppb	1.008 ppb	1,130.851 ppb	6,493.168 ppb	3.811 ppb	18.868 ppb	2.783 ppb	23.057 ppb	76.492 %
Concentration per Run 3	1.404 ppb	1.028 ppb	1,102.071 ppb	6,293.298 ppb	3.932 ppb	17.715 ppb	2.746 ppb	22.349 ppb	81.800 %
Concentration RSD	2.8 %	6.3 %	4.6 %	4.5 %	2.8 %	4.1 %	1.5 %	2.3 %	3.4 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	2.230 ppb	0.603 ppb	628.274 ppb	9.040 ppb	77.421 %	0.005 ppb	0.011 ppb	79.303 %	1.525 ppb
Concentration per Run 1	2.266 ppb	0.696 ppb	649.057 ppb	9.422 ppb	74.996 %	0.004 ppb	0.013 ppb	76.515 %	1.662 ppb
Concentration per Run 2	2.212 ppb	0.545 ppb	604.922 ppb	8.700 ppb	77.990 %	0.007 ppb	0.013 ppb	78.600 %	1.439 ppb
Concentration per Run 3	2.213 ppb	0.566 ppb	630.841 ppb	8.999 ppb	79.278 %	0.004 ppb	0.007 ppb	82.795 %	1.473 ppb
Concentration RSD	1.4 %	13.6 %	3.5 %	4.0 %	2.8 %	26.3 %	32.6 %	4.0 %	7.9 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	101.623 ppb	85.363 %	88.159 %	0.145 ppb	0.715 ppb
Concentration per Run 1	110.677 ppb	82.762 %	84.073 %	0.111 ppb	0.761 ppb
Concentration per Run 2	97.682 ppb	83.540 %	88.799 %	0.168 ppb	0.696 ppb
Concentration per Run 3	96.510 ppb	89.787 %	91.606 %	0.156 ppb	0.689 ppb
Concentration RSD	7.7 %	4.5 %	4.3 %	20.9 %	5.6 %

Alpha ICPMSQ Data with SRD

3/5/2024 4:47:09 PM

Analysis index:	96	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	L2408819-04d10 6020SL	Rack	2		
Analysis started at:	3/5/2024 1:24:07 PM	Vial	8		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	81.014 %	84.047 %	0.005 ppb	588.133 ppb	1,241.363 ppb	0.604 ppb	170.719 ppb	7,961.054 ppb	74.352 %
Concentration per Run 1	82.015 %	81.215 %	0.004 ppb	607.079 ppb	1,254.144 ppb	0.616 ppb	181.810 ppb	7,919.719 ppb	74.325 %
Concentration per Run 2	80.827 %	87.224 %	0.008 ppb	575.067 ppb	1,195.682 ppb	0.365 ppb	168.628 ppb	7,872.507 ppb	74.479 %
Concentration per Run 3	80.199 %	83.701 %	0.004 ppb	582.253 ppb	1,274.264 ppb	0.831 ppb	161.719 ppb	8,090.935 ppb	74.253 %
Concentration RSD	1.1 %	3.6 %	42.7 %	2.9 %	3.3 %	38.6 %	6.0 %	1.4 %	0.2 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.001 ppb	0.019 ppb	86.302 ppb	824.952 ppb	0.387 ppb	2.933 ppb	0.093 ppb	4.537 ppb	84.082 %
Concentration per Run 1	0.002 ppb	0.017 ppb	88.170 ppb	824.402 ppb	0.435 ppb	3.098 ppb	0.105 ppb	4.540 ppb	81.644 %
Concentration per Run 2	0.002 ppb	0.019 ppb	85.638 ppb	826.827 ppb	0.391 ppb	2.874 ppb	0.041 ppb	4.543 ppb	82.191 %
Concentration per Run 3	-0.007 ppb	0.022 ppb	85.098 ppb	823.627 ppb	0.336 ppb	2.825 ppb	0.133 ppb	4.526 ppb	88.413 %
Concentration RSD	540.7 %	12.4 %	1.9 %	0.2 %	12.7 %	5.0 %	51.2 %	0.2 %	4.5 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.083 ppb	0.103 ppb	27.100 ppb	0.342 ppb	81.668 %	0.002 ppb	0.003 ppb	79.092 %	0.157 ppb
Concentration per Run 1	0.051 ppb	0.037 ppb	27.294 ppb	0.347 ppb	78.201 %	0.002 ppb	0.002 ppb	74.719 %	0.145 ppb
Concentration per Run 2	0.128 ppb	0.086 ppb	27.286 ppb	0.381 ppb	82.663 %	0.003 ppb	0.003 ppb	81.007 %	0.151 ppb
Concentration per Run 3	0.070 ppb	0.185 ppb	26.719 ppb	0.299 ppb	84.139 %	0.003 ppb	0.004 ppb	81.549 %	0.174 ppb
Concentration RSD	47.9 %	72.9 %	1.2 %	12.0 %	3.8 %	30.3 %	47.0 %	4.8 %	9.6 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	14.824 ppb	84.799 %	85.890 %	0.077 ppb	0.036 ppb
Concentration per Run 1	15.507 ppb	78.957 %	80.754 %	0.055 ppb	0.041 ppb
Concentration per Run 2	14.407 ppb	86.272 %	86.157 %	0.089 ppb	0.035 ppb
Concentration per Run 3	14.559 ppb	89.167 %	90.760 %	0.086 ppb	0.031 ppb
Concentration RSD	4.0 %	6.2 %	5.8 %	24.7 %	13.0 %

Alpha ICPMSQ Data with SRD

3/5/2024 4:47:09 PM

Analysis index: 97
Analysis label: WG1891188-4d10 6020SL
Analysis started at: 3/5/2024 1:28:46 PM
User name ALPHALAB\Metals-Instrument
Rack 2
Vial 9
Comment <Comment>

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	78.467 %	85.014 %	0.027 ppb	4,948.712 ppb	1,154.548 ppb	64.893 ppb	325.573 ppb	10,816.471 ppb	79.095 %
Concentration per Run 1	79.864 %	83.080 %	0.027 ppb	4,926.679 ppb	1,170.566 ppb	66.319 ppb	330.586 ppb	10,819.993 ppb	80.190 %
Concentration per Run 2	78.796 %	89.088 %	0.025 ppb	4,827.915 ppb	1,121.505 ppb	62.299 ppb	310.834 ppb	10,640.161 ppb	79.960 %
Concentration per Run 3	76.742 %	82.873 %	0.030 ppb	5,091.543 ppb	1,171.574 ppb	66.061 ppb	335.299 ppb	10,989.259 ppb	77.134 %
Concentration RSD	2.0 %	4.2 %	9.2 %	2.7 %	2.5 %	3.5 %	4.0 %	1.6 %	2.2 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.126 ppb	0.125 ppb	114.966 ppb	657.145 ppb	0.423 ppb	1.938 ppb	0.414 ppb	2.482 ppb	82.536 %
Concentration per Run 1	0.148 ppb	0.112 ppb	114.435 ppb	671.909 ppb	0.434 ppb	2.057 ppb	0.409 ppb	2.495 ppb	79.227 %
Concentration per Run 2	0.106 ppb	0.135 ppb	115.828 ppb	645.763 ppb	0.428 ppb	1.921 ppb	0.390 ppb	2.494 ppb	83.494 %
Concentration per Run 3	0.124 ppb	0.129 ppb	114.635 ppb	653.762 ppb	0.406 ppb	1.836 ppb	0.441 ppb	2.455 ppb	84.887 %
Concentration RSD	16.7 %	9.6 %	0.7 %	2.0 %	3.6 %	5.8 %	6.2 %	0.9 %	3.6 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.268 ppb	0.174 ppb	61.131 ppb	0.935 ppb	83.105 %	0.002 ppb	0.002 ppb	85.219 %	0.218 ppb
Concentration per Run 1	0.265 ppb	0.252 ppb	60.202 ppb	0.957 ppb	81.353 %	0.003 ppb	0.000 ppb	81.751 %	0.217 ppb
Concentration per Run 2	0.268 ppb	0.184 ppb	61.718 ppb	0.817 ppb	84.822 %	0.002 ppb	0.001 ppb	88.183 %	0.211 ppb
Concentration per Run 3	0.270 ppb	0.087 ppb	61.475 ppb	1.032 ppb	83.141 %	0.001 ppb	0.004 ppb	85.723 %	0.226 ppb
Concentration RSD	1.0 %	47.6 %	1.3 %	11.7 %	2.1 %	65.5 %	115.5 %	3.8 %	3.5 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	9.710 ppb	89.263 %	91.148 %	0.048 ppb	0.094 ppb
Concentration per Run 1	9.627 ppb	85.325 %	87.361 %	0.032 ppb	0.099 ppb
Concentration per Run 2	9.508 ppb	92.286 %	93.560 %	0.056 ppb	0.092 ppb
Concentration per Run 3	9.995 ppb	90.177 %	92.524 %	0.057 ppb	0.091 ppb
Concentration RSD	2.6 %	4.0 %	3.6 %	29.9 %	4.4 %

Alpha ICPMSQ Data with SRD

3/5/2024 4:47:09 PM

Analysis index:	98	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	L2408819-02d10 6020SL	Rack	2		
Analysis started at:	3/5/2024 1:33:24 PM	Vial	10		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	78.504 %	88.398 %	0.026 ppb	4,659.648 ppb	1,105.947 ppb	66.385 ppb	310.304 ppb	10,502.733 ppb	76.585 %
Concentration per Run 1	79.780 %	87.224 %	0.024 ppb	4,644.605 ppb	1,082.367 ppb	65.968 ppb	308.759 ppb	10,275.442 ppb	76.897 %
Concentration per Run 2	77.926 %	93.025 %	0.036 ppb	4,573.953 ppb	1,100.488 ppb	62.609 ppb	297.477 ppb	10,485.962 ppb	76.300 %
Concentration per Run 3	77.806 %	84.945 %	0.019 ppb	4,760.385 ppb	1,134.986 ppb	70.578 ppb	324.675 ppb	10,746.795 ppb	76.557 %
Concentration RSD	1.4 %	4.7 %	33.8 %	2.0 %	2.4 %	6.0 %	4.4 %	2.2 %	0.4 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.137 ppb	0.087 ppb	115.264 ppb	651.525 ppb	0.406 ppb	1.835 ppb	0.342 ppb	2.487 ppb	83.663 %
Concentration per Run 1	0.086 ppb	0.082 ppb	115.535 ppb	671.109 ppb	0.427 ppb	1.804 ppb	0.390 ppb	2.463 ppb	79.703 %
Concentration per Run 2	0.210 ppb	0.064 ppb	113.240 ppb	627.787 ppb	0.382 ppb	1.749 ppb	0.282 ppb	2.465 ppb	86.497 %
Concentration per Run 3	0.115 ppb	0.115 ppb	117.017 ppb	655.679 ppb	0.408 ppb	1.951 ppb	0.353 ppb	2.534 ppb	84.790 %
Concentration RSD	47.4 %	30.0 %	1.7 %	3.4 %	5.6 %	5.7 %	16.1 %	1.6 %	4.2 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.237 ppb	0.104 ppb	60.141 ppb	0.846 ppb	82.899 %	0.002 ppb	0.001 ppb	83.029 %	0.200 ppb
Concentration per Run 1	0.296 ppb	-0.022 ppb	59.357 ppb	0.836 ppb	81.650 %	0.004 ppb	0.001 ppb	79.670 %	0.213 ppb
Concentration per Run 2	0.222 ppb	0.041 ppb	60.052 ppb	0.836 ppb	83.849 %	0.001 ppb	0.001 ppb	83.812 %	0.180 ppb
Concentration per Run 3	0.194 ppb	0.294 ppb	61.015 ppb	0.866 ppb	83.199 %	0.003 ppb	0.001 ppb	85.607 %	0.208 ppb
Concentration RSD	22.1 %	160.4 %	1.4 %	2.1 %	1.4 %	75.2 %	2.9 %	3.7 %	8.9 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	9.758 ppb	87.662 %	87.874 %	0.039 ppb	0.094 ppb
Concentration per Run 1	10.008 ppb	84.965 %	84.655 %	0.026 ppb	0.094 ppb
Concentration per Run 2	9.765 ppb	88.818 %	88.040 %	0.044 ppb	0.094 ppb
Concentration per Run 3	9.500 ppb	89.202 %	90.928 %	0.046 ppb	0.095 ppb
Concentration RSD	2.6 %	2.7 %	3.6 %	28.9 %	0.8 %

Alpha ICPMSQ Data with SRD

3/5/2024 4:47:09 PM

Analysis index: 99
Analysis label: CCV
Analysis started at: 3/5/2024 1:38:04 PM
User name ALPHALAB\Metals-Instrument
Rack 0
Vial 9
Comment <Comment>

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	85.576 %	82.804 %	53.877 ppb	6,019.530 ppb	6,066.018 ppb	62.126 ppb	6,061.680 ppb	6,066.789 ppb	91.073 %
Concentration per Run 1	88.419 %	85.773 %	52.319 ppb	6,010.609 ppb	5,981.639 ppb	63.933 ppb	5,970.714 ppb	5,689.853 ppb	91.144 %
Concentration per Run 2	86.240 %	84.530 %	53.308 ppb	5,796.329 ppb	5,818.899 ppb	59.542 ppb	5,967.866 ppb	6,120.838 ppb	91.295 %
Concentration per Run 3	82.069 %	78.108 %	56.004 ppb	6,251.653 ppb	6,397.517 ppb	62.901 ppb	6,246.462 ppb	6,389.677 ppb	90.780 %
Recovery Percentage 1			89.795 %	100.326 %	101.100 %	103.543 %	101.028 %	101.113 %	
Concentration RSD	3.8 %	5.0 %	3.5 %	3.8 %	4.9 %	3.7 %	2.6 %	5.8 %	0.3 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	60.984 ppb	62.370 ppb	61.953 ppb	5,993.210 ppb	61.555 ppb	62.282 ppb	62.282 ppb	60.686 ppb	82.804 %
Concentration per Run 1	59.392 ppb	62.447 ppb	62.364 ppb	5,945.902 ppb	60.184 ppb	60.670 ppb	61.346 ppb	59.363 ppb	83.375 %
Concentration per Run 2	59.514 ppb	60.001 ppb	58.447 ppb	5,828.264 ppb	60.443 ppb	61.299 ppb	61.194 ppb	59.305 ppb	83.524 %
Concentration per Run 3	64.045 ppb	64.662 ppb	65.047 ppb	6,205.465 ppb	64.037 ppb	64.878 ppb	64.306 ppb	63.389 ppb	81.514 %
Recovery Percentage 1	101.640 %	103.950 %	103.255 %	99.887 %	102.591 %	103.803 %	103.803 %	101.143 %	
Concentration RSD	4.3 %	3.7 %	5.4 %	3.2 %	3.5 %	3.6 %	2.8 %	3.9 %	1.4 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	60.854 ppb	64.789 ppb	62.095 ppb	59.292 ppb	82.074 %	62.067 ppb	62.834 ppb	82.655 %	57.432 ppb
Concentration per Run 1	60.366 ppb	60.109 ppb	62.007 ppb	56.861 ppb	81.189 %	61.981 ppb	62.378 ppb	82.593 %	56.639 ppb
Concentration per Run 2	60.012 ppb	67.344 ppb	61.140 ppb	58.417 ppb	84.265 %	60.302 ppb	61.206 ppb	85.924 %	54.977 ppb
Concentration per Run 3	62.185 ppb	66.914 ppb	63.139 ppb	62.596 ppb	80.768 %	63.919 ppb	64.919 ppb	79.450 %	60.681 ppb
Recovery Percentage 1	101.423 %	107.981 %	103.492 %	98.819 %		103.445 %	104.724 %		95.720 %
Concentration RSD	1.9 %	6.3 %	1.6 %	5.0 %	2.3 %	2.9 %	3.0 %	3.9 %	5.1 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	62.578 ppb	89.419 %	89.241 %	62.435 ppb	61.673 ppb
Concentration per Run 1	61.081 ppb	89.479 %	90.665 %	61.008 ppb	60.393 ppb
Concentration per Run 2	59.870 ppb	93.149 %	90.452 %	61.179 ppb	60.991 ppb
Concentration per Run 3	66.784 ppb	85.630 %	86.607 %	65.119 ppb	63.636 ppb
Recovery Percentage 1	104.297 %			104.058 %	102.789 %
Concentration RSD	5.9 %	4.2 %	2.6 %	3.7 %	2.8 %

Alpha ICPMSQ Data with SRD

3/5/2024 4:47:09 PM

Analysis index:	100	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	CCB	Rack	0		
Analysis started at:	3/5/2024 1:42:46 PM	Vial	10		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	77.103 %	85.083 %	0.016 ppb	3.373 ppb	0.153 ppb	-0.207 ppb	0.918 ppb	-1.946 ppb	77.121 %
Concentration per Run 1	78.406 %	83.494 %	0.012 ppb	4.632 ppb	0.169 ppb	-0.355 ppb	-0.006 ppb	-2.423 ppb	76.421 %
Concentration per Run 2	76.794 %	85.981 %	0.019 ppb	2.680 ppb	-0.340 ppb	-0.179 ppb	-2.129 ppb	-2.432 ppb	77.837 %
Concentration per Run 3	76.110 %	85.773 %	0.018 ppb	2.808 ppb	0.630 ppb	-0.089 ppb	4.889 ppb	-0.984 ppb	77.106 %
Recovery Percentage 1			3.250 %	3.373 %	0.219 %	-2.074 %	0.918 %	-1.946 %	
Concentration RSD	1.5 %	1.6 %	24.1 %	32.4 %	316.5 %	65.2 %	392.0 %	42.8 %	0.9 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.012 ppb	0.000 ppb	0.017 ppb	15.799 ppb	0.001 ppb	-0.013 ppb	0.010 ppb	0.072 ppb	83.324 %
Concentration per Run 1	-0.015 ppb	0.011 ppb	0.008 ppb	18.945 ppb	-0.002 ppb	0.018 ppb	0.009 ppb	0.066 ppb	82.698 %
Concentration per Run 2	-0.007 ppb	0.000 ppb	0.007 ppb	15.492 ppb	0.002 ppb	-0.031 ppb	0.000 ppb	0.026 ppb	83.013 %
Concentration per Run 3	-0.015 ppb	-0.011 ppb	0.036 ppb	12.962 ppb	0.004 ppb	-0.025 ppb	0.022 ppb	0.123 ppb	84.262 %
Recovery Percentage 1	-0.240 %	0.001 %	1.702 %	31.599 %	0.217 %	-0.628 %	1.042 %	1.432 %	
Concentration RSD	39.4 %	113,133.1 %	97.1 %	19.0 %	280.6 %	213.1 %	103.5 %	67.8 %	1.0 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.076 ppb	0.414 ppb	0.000 ppb	0.836 ppb	83.039 %	0.006 ppb	0.004 ppb	84.051 %	0.739 ppb
Concentration per Run 1	0.098 ppb	0.508 ppb	0.002 ppb	0.849 ppb	83.035 %	0.007 ppb	0.006 ppb	81.661 %	0.727 ppb
Concentration per Run 2	0.014 ppb	0.302 ppb	-0.002 ppb	0.788 ppb	83.478 %	0.005 ppb	0.001 ppb	85.633 %	0.715 ppb
Concentration per Run 3	0.115 ppb	0.431 ppb	0.000 ppb	0.872 ppb	82.602 %	0.007 ppb	0.005 ppb	84.860 %	0.774 ppb
Recovery Percentage 1	15.202 %	8.273 %	-0.002 %	41.809 %		1.581 %	2.052 %		18.469 %
Concentration RSD	71.0 %	25.2 %	1,166.3 %	5.2 %	0.5 %	15.2 %	58.3 %	2.5 %	4.3 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	0.009 ppb	88.297 %	90.130 %	0.385 ppb	0.043 ppb
Concentration per Run 1	0.004 ppb	87.513 %	90.706 %	0.353 ppb	0.046 ppb
Concentration per Run 2	0.003 ppb	87.547 %	90.358 %	0.440 ppb	0.040 ppb
Concentration per Run 3	0.020 ppb	89.830 %	89.328 %	0.363 ppb	0.042 ppb
Recovery Percentage 1	1.811 %			38.539 %	4.261 %
Concentration RSD	108.6 %	1.5 %	0.8 %	12.3 %	7.3 %

Alpha ICPMSQ Data with SRD

3/5/2024 4:47:09 PM

Analysis index:	101	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	WG1890975-1d10 6020TS	Rack	2		
Analysis started at:	3/5/2024 1:55:40 PM	Vial	19		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	81.219 %	83.771 %	0.009 ppb	3.923 ppb	2.005 ppb	3.451 ppb	1.542 ppb	6.085 ppb	76.168 %
Concentration per Run 1	81.529 %	85.566 %	0.001 ppb	5.426 ppb	1.862 ppb	2.596 ppb	3.752 ppb	10.939 ppb	76.928 %
Concentration per Run 2	81.551 %	79.558 %	0.011 ppb	2.869 ppb	2.572 ppb	4.306 ppb	-1.579 ppb	5.559 ppb	75.855 %
Concentration per Run 3	80.578 %	86.188 %	0.015 ppb	3.473 ppb	1.582 ppb	3.452 ppb	2.454 ppb	1.758 ppb	75.721 %
Concentration RSD	0.7 %	4.4 %	75.6 %	34.1 %	25.5 %	24.8 %	180.3 %	75.8 %	0.9 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.006 ppb	0.042 ppb	0.377 ppb	47.783 ppb	0.005 ppb	0.073 ppb	0.093 ppb	0.121 ppb	82.216 %
Concentration per Run 1	-0.006 ppb	0.045 ppb	0.409 ppb	51.721 ppb	0.012 ppb	0.101 ppb	0.098 ppb	0.087 ppb	82.577 %
Concentration per Run 2	-0.014 ppb	0.044 ppb	0.310 ppb	48.820 ppb	0.000 ppb	0.082 ppb	0.101 ppb	0.166 ppb	78.420 %
Concentration per Run 3	0.001 ppb	0.036 ppb	0.411 ppb	42.807 ppb	0.004 ppb	0.036 ppb	0.081 ppb	0.110 ppb	85.650 %
Concentration RSD	118.0 %	13.0 %	15.4 %	9.5 %	119.4 %	46.4 %	11.4 %	33.4 %	4.4 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.067 ppb	0.015 ppb	0.016 ppb	0.117 ppb	83.894 %	0.003 ppb	0.002 ppb	82.907 %	0.229 ppb
Concentration per Run 1	0.080 ppb	-0.012 ppb	0.015 ppb	0.106 ppb	81.980 %	0.003 ppb	0.001 ppb	83.314 %	0.224 ppb
Concentration per Run 2	0.008 ppb	0.012 ppb	0.018 ppb	0.098 ppb	83.277 %	0.003 ppb	0.003 ppb	80.779 %	0.220 ppb
Concentration per Run 3	0.114 ppb	0.045 ppb	0.015 ppb	0.146 ppb	86.425 %	0.004 ppb	0.001 ppb	84.630 %	0.245 ppb
Concentration RSD	81.0 %	192.5 %	10.2 %	22.1 %	2.7 %	19.8 %	45.2 %	2.4 %	5.9 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	0.043 ppb	88.334 %	89.195 %	0.054 ppb	0.028 ppb
Concentration per Run 1	0.068 ppb	87.929 %	88.521 %	0.043 ppb	0.031 ppb
Concentration per Run 2	0.040 ppb	86.645 %	87.191 %	0.059 ppb	0.028 ppb
Concentration per Run 3	0.020 ppb	90.426 %	91.873 %	0.061 ppb	0.024 ppb
Concentration RSD	56.1 %	2.2 %	2.7 %	17.5 %	12.1 %

Alpha ICPMSQ Data with SRD

3/5/2024 4:47:09 PM

Analysis index:	102	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	WG1891188-6d50 6020SL	Rack	2		
Analysis started at:	3/5/2024 2:00:42 PM	Vial	28		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	80.813 %	92.127 %	0.013 ppb	868.465 ppb	203.601 ppb	12.226 ppb	64.856 ppb	1,897.242 ppb	80.801 %
Concentration per Run 1	81.224 %	97.997 %	0.009 ppb	860.955 ppb	192.903 ppb	12.102 ppb	57.166 ppb	1,832.671 ppb	81.224 %
Concentration per Run 2	81.884 %	88.674 %	0.008 ppb	872.825 ppb	214.176 ppb	14.329 ppb	60.576 ppb	1,959.542 ppb	81.823 %
Concentration per Run 3	79.332 %	89.710 %	0.022 ppb	871.617 ppb	203.725 ppb	10.248 ppb	76.826 ppb	1,899.513 ppb	79.355 %
Concentration RSD	1.6 %	5.5 %	58.8 %	0.8 %	5.2 %	16.7 %	16.2 %	3.3 %	1.6 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.027 ppb	0.044 ppb	21.020 ppb	125.308 ppb	0.099 ppb	0.360 ppb	0.115 ppb	0.577 ppb	85.980 %
Concentration per Run 1	0.008 ppb	0.043 ppb	20.553 ppb	124.877 ppb	0.092 ppb	0.366 ppb	0.119 ppb	0.585 ppb	84.595 %
Concentration per Run 2	0.041 ppb	0.058 ppb	21.002 ppb	139.805 ppb	0.118 ppb	0.371 ppb	0.106 ppb	0.504 ppb	85.755 %
Concentration per Run 3	0.032 ppb	0.031 ppb	21.505 ppb	111.243 ppb	0.087 ppb	0.343 ppb	0.121 ppb	0.641 ppb	87.591 %
Concentration RSD	63.0 %	30.5 %	2.3 %	11.4 %	16.9 %	4.2 %	6.7 %	11.9 %	1.8 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.029 ppb	0.097 ppb	11.170 ppb	0.203 ppb	85.927 %	0.004 ppb	0.001 ppb	88.067 %	0.153 ppb
Concentration per Run 1	0.015 ppb	0.083 ppb	11.282 ppb	0.195 ppb	85.803 %	0.007 ppb	0.001 ppb	89.512 %	0.150 ppb
Concentration per Run 2	0.034 ppb	0.189 ppb	11.156 ppb	0.209 ppb	86.210 %	0.003 ppb	0.001 ppb	84.819 %	0.150 ppb
Concentration per Run 3	0.038 ppb	0.020 ppb	11.072 ppb	0.205 ppb	85.770 %	0.002 ppb	0.000 ppb	89.869 %	0.158 ppb
Concentration RSD	42.9 %	87.8 %	0.9 %	3.5 %	0.3 %	63.4 %	86.6 %	3.2 %	2.9 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	1.835 ppb	91.222 %	92.370 %	0.035 ppb	0.050 ppb
Concentration per Run 1	1.758 ppb	92.591 %	92.343 %	0.022 ppb	0.051 ppb
Concentration per Run 2	1.870 ppb	90.766 %	91.444 %	0.041 ppb	0.048 ppb
Concentration per Run 3	1.878 ppb	90.308 %	93.325 %	0.041 ppb	0.049 ppb
Concentration RSD	3.6 %	1.3 %	1.0 %	31.6 %	3.2 %

Alpha ICPMSQ Data with SRD

3/5/2024 4:47:09 PM

Analysis index:	103	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	CCV	Rack	0		
Analysis started at:	3/5/2024 2:05:22 PM	Vial	9		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	78.310 %	88.190 %	61.178 ppb	5,756.465 ppb	5,895.458 ppb	60.913 ppb	5,763.442 ppb	5,882.334 ppb	82.661 %
Concentration per Run 1	78.588 %	90.746 %	61.401 ppb	5,838.834 ppb	6,046.667 ppb	58.957 ppb	5,823.383 ppb	6,010.981 ppb	81.772 %
Concentration per Run 2	78.247 %	90.539 %	60.970 ppb	5,515.158 ppb	5,619.314 ppb	57.856 ppb	5,379.549 ppb	5,592.804 ppb	82.995 %
Concentration per Run 3	78.094 %	83.287 %	61.165 ppb	5,915.403 ppb	6,020.394 ppb	65.925 ppb	6,087.393 ppb	6,043.217 ppb	83.216 %
Recovery Percentage 1			101.964 %	95.941 %	98.258 %	101.521 %	96.057 %	98.039 %	
Concentration RSD	0.3 %	4.8 %	0.4 %	3.7 %	4.1 %	7.2 %	6.2 %	4.3 %	0.9 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	59.027 ppb	60.567 ppb	60.391 ppb	5,847.564 ppb	60.240 ppb	60.398 ppb	60.930 ppb	60.422 ppb	82.217 %
Concentration per Run 1	60.055 ppb	62.143 ppb	60.793 ppb	5,958.007 ppb	61.075 ppb	61.147 ppb	61.900 ppb	60.870 ppb	81.622 %
Concentration per Run 2	57.044 ppb	59.076 ppb	58.685 ppb	5,820.568 ppb	60.011 ppb	60.241 ppb	61.369 ppb	60.195 ppb	80.517 %
Concentration per Run 3	59.981 ppb	60.482 ppb	61.696 ppb	5,764.117 ppb	59.632 ppb	59.806 ppb	59.521 ppb	60.202 ppb	84.514 %
Recovery Percentage 1	98.378 %	100.945 %	100.652 %	97.459 %	100.399 %	100.664 %	101.550 %	100.704 %	
Concentration RSD	2.9 %	2.5 %	2.6 %	1.7 %	1.2 %	1.1 %	2.0 %	0.6 %	2.5 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	60.835 ppb	64.119 ppb	61.178 ppb	59.866 ppb	81.521 %	62.340 ppb	63.159 ppb	81.814 %	57.702 ppb
Concentration per Run 1	62.194 ppb	63.522 ppb	62.851 ppb	59.067 ppb	82.524 %	62.764 ppb	63.313 ppb	84.947 %	56.381 ppb
Concentration per Run 2	60.719 ppb	63.293 ppb	59.837 ppb	61.195 ppb	79.205 %	63.677 ppb	64.867 ppb	76.228 %	59.094 ppb
Concentration per Run 3	59.591 ppb	65.542 ppb	60.845 ppb	59.338 ppb	82.835 %	60.580 ppb	61.297 ppb	84.266 %	57.631 ppb
Recovery Percentage 1	101.391 %	106.865 %	101.963 %	99.777 %		103.901 %	105.265 %		96.170 %
Concentration RSD	2.1 %	1.9 %	2.5 %	1.9 %	2.5 %	2.6 %	2.8 %	5.9 %	2.4 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	62.938 ppb	86.566 %	88.395 %	62.442 ppb	62.114 ppb
Concentration per Run 1	61.357 ppb	87.584 %	88.352 %	61.992 ppb	61.726 ppb
Concentration per Run 2	63.872 ppb	83.060 %	85.157 %	64.229 ppb	63.539 ppb
Concentration per Run 3	63.585 ppb	89.053 %	91.674 %	61.104 ppb	61.077 ppb
Recovery Percentage 1	104.897 %			104.070 %	103.523 %
Concentration RSD	2.2 %	3.6 %	3.7 %	2.6 %	2.1 %

Alpha ICPMSQ Data with SRD

3/5/2024 4:47:09 PM

Analysis index:	104	User name	ALPHALAB\Metals-Instrument	Comment	CCB
Analysis label:	CCB	Rack	0		
Analysis started at:	3/5/2024 2:10:04 PM	Vial	10		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	76.998 %	80.663 %	0.014 ppb	3.925 ppb	-0.400 ppb	-0.311 ppb	-0.099 ppb	2.823 ppb	75.683 %
Concentration per Run 1	77.973 %	85.152 %	0.014 ppb	5.330 ppb	-0.330 ppb	-0.355 ppb	0.836 ppb	2.254 ppb	75.763 %
Concentration per Run 2	76.949 %	77.486 %	0.017 ppb	3.541 ppb	-0.300 ppb	-0.235 ppb	2.476 ppb	0.852 ppb	75.554 %
Concentration per Run 3	76.073 %	79.351 %	0.010 ppb	2.905 ppb	-0.568 ppb	-0.343 ppb	-3.610 ppb	5.362 ppb	75.732 %
Recovery Percentage 1			2.703 %	3.925 %	-0.571 %	-3.111 %	-0.099 %	2.823 %	
Concentration RSD	1.2 %	5.0 %	27.4 %	32.0 %	36.8 %	21.2 %	3,170.4 %	81.8 %	0.1 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.017 ppb	-0.008 ppb	0.039 ppb	11.055 ppb	0.001 ppb	0.010 ppb	0.016 ppb	0.076 ppb	81.774 %
Concentration per Run 1	-0.023 ppb	-0.010 ppb	0.055 ppb	11.824 ppb	0.004 ppb	0.042 ppb	0.011 ppb	0.085 ppb	79.377 %
Concentration per Run 2	-0.023 ppb	-0.013 ppb	0.055 ppb	10.885 ppb	-0.002 ppb	-0.009 ppb	0.014 ppb	0.066 ppb	82.309 %
Concentration per Run 3	-0.006 ppb	-0.002 ppb	0.008 ppb	10.455 ppb	0.002 ppb	-0.003 ppb	0.023 ppb	0.078 ppb	83.636 %
Recovery Percentage 1	-0.347 %	-0.825 %	3.918 %	22.110 %	0.239 %	0.510 %	1.590 %	1.524 %	
Concentration RSD	55.8 %	66.1 %	68.9 %	6.3 %	265.2 %	273.0 %	38.2 %	13.0 %	2.7 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.074 ppb	0.332 ppb	-0.002 ppb	0.775 ppb	84.172 %	0.004 ppb	0.005 ppb	83.817 %	0.690 ppb
Concentration per Run 1	0.091 ppb	0.460 ppb	-0.001 ppb	0.801 ppb	83.021 %	0.007 ppb	0.004 ppb	83.574 %	0.666 ppb
Concentration per Run 2	0.049 ppb	0.242 ppb	-0.002 ppb	0.790 ppb	83.971 %	0.004 ppb	0.007 ppb	81.639 %	0.706 ppb
Concentration per Run 3	0.081 ppb	0.293 ppb	-0.003 ppb	0.735 ppb	85.524 %	0.002 ppb	0.004 ppb	86.238 %	0.698 ppb
Recovery Percentage 1	14.719 %	6.632 %	-0.022 %	38.774 %		1.117 %	2.497 %		17.251 %
Concentration RSD	30.3 %	34.3 %	57.5 %	4.5 %	1.5 %	55.7 %	33.3 %	2.8 %	3.1 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	0.001 ppb	88.443 %	89.131 %	0.381 ppb	0.043 ppb
Concentration per Run 1	0.009 ppb	87.655 %	90.840 %	0.349 ppb	0.046 ppb
Concentration per Run 2	-0.002 ppb	86.277 %	84.175 %	0.440 ppb	0.042 ppb
Concentration per Run 3	-0.003 ppb	91.398 %	92.377 %	0.355 ppb	0.041 ppb
Recovery Percentage 1	0.277 %			38.138 %	4.292 %
Concentration RSD	492.2 %	3.0 %	4.9 %	13.4 %	6.6 %

Alpha ICPMSQ Data with SRD

3/5/2024 4:47:09 PM

Analysis index:	105	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	WG1890975-2d50 6020TS	Rack	2		
Analysis started at:	3/5/2024 2:17:05 PM	Vial	20		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	82.333 %	88.190 %	24.699 ppb	268.764 ppb	248.438 ppb	772.280 ppb	173.008 ppb	802.939 ppb	78.968 %
Concentration per Run 1	83.218 %	91.160 %	24.838 ppb	254.669 ppb	234.177 ppb	708.878 ppb	157.242 ppb	759.282 ppb	79.065 %
Concentration per Run 2	82.468 %	89.088 %	24.540 ppb	276.333 ppb	257.378 ppb	797.721 ppb	195.310 ppb	794.904 ppb	79.360 %
Concentration per Run 3	81.313 %	84.323 %	24.720 ppb	275.291 ppb	253.760 ppb	810.242 ppb	166.472 ppb	854.630 ppb	78.481 %
Concentration RSD	1.2 %	4.0 %	0.6 %	4.5 %	5.0 %	7.2 %	11.5 %	6.0 %	0.6 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	15.866 ppb	27.627 ppb	84.542 ppb	982.731 ppb	12.826 ppb	48.790 ppb	37.848 ppb	30.216 ppb	84.942 %
Concentration per Run 1	15.451 ppb	26.833 ppb	80.530 ppb	978.402 ppb	12.857 ppb	49.059 ppb	38.408 ppb	29.686 ppb	83.237 %
Concentration per Run 2	15.902 ppb	27.292 ppb	86.922 ppb	966.053 ppb	12.328 ppb	46.527 ppb	36.187 ppb	29.398 ppb	89.394 %
Concentration per Run 3	16.245 ppb	28.757 ppb	86.174 ppb	1,003.737 ppb	13.292 ppb	50.783 ppb	38.950 ppb	31.564 ppb	82.194 %
Concentration RSD	2.5 %	3.6 %	4.1 %	2.0 %	3.8 %	4.4 %	3.9 %	3.9 %	4.6 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	49.773 ppb	27.563 ppb	21.585 ppb	20.155 ppb	85.283 %	12.432 ppb	33.322 ppb	87.277 %	27.167 ppb
Concentration per Run 1	50.147 ppb	26.457 ppb	20.762 ppb	19.785 ppb	87.214 %	12.274 ppb	32.730 ppb	86.107 %	27.016 ppb
Concentration per Run 2	49.345 ppb	29.694 ppb	22.001 ppb	19.792 ppb	87.579 %	12.083 ppb	32.481 ppb	91.970 %	26.217 ppb
Concentration per Run 3	49.828 ppb	26.538 ppb	21.991 ppb	20.887 ppb	81.058 %	12.938 ppb	34.755 ppb	83.752 %	28.269 ppb
Concentration RSD	0.8 %	6.7 %	3.3 %	3.1 %	4.3 %	3.6 %	3.7 %	4.8 %	3.8 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	47.120 ppb	91.916 %	94.758 %	30.475 ppb	15.625 ppb
Concentration per Run 1	46.264 ppb	93.019 %	94.046 %	29.892 ppb	15.747 ppb
Concentration per Run 2	47.017 ppb	95.304 %	98.050 %	29.622 ppb	15.213 ppb
Concentration per Run 3	48.077 ppb	87.424 %	92.177 %	31.911 ppb	15.915 ppb
Concentration RSD	1.9 %	4.4 %	3.2 %	4.1 %	2.3 %

Alpha ICPMSQ Data with SRD

3/5/2024 4:47:09 PM

Analysis index: 106
Analysis label: WG1890975-3d50 6020TS
Analysis started at: 3/5/2024 2:21:44 PM
User name ALPHALAB\Metals-Instrument
Rack 2
Vial 22
Comment <Comment>

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	75.185 %	85.981 %	2.281 ppb	548.121 ppb	2,464.803 ppb	3,041.387 ppb	918.727 ppb	12,346.605 ppb	85.948 %
Concentration per Run 1	76.071 %	82.873 %	2.213 ppb	541.887 ppb	2,389.892 ppb	2,962.749 ppb	928.230 ppb	12,496.513 ppb	86.082 %
Concentration per Run 2	74.742 %	83.702 %	2.252 ppb	584.181 ppb	2,601.505 ppb	3,239.694 ppb	950.826 ppb	12,976.333 ppb	85.232 %
Concentration per Run 3	74.742 %	91.367 %	2.376 ppb	518.293 ppb	2,403.011 ppb	2,921.719 ppb	877.126 ppb	11,566.970 ppb	86.529 %
Concentration RSD	1.0 %	5.4 %	3.7 %	6.1 %	4.8 %	5.7 %	4.1 %	5.8 %	0.8 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	30.783 ppb	22.764 ppb	172.889 ppb	17,793.517 ppb	22.413 ppb	30.132 ppb	215.417 ppb	427.894 ppb	84.494 %
Concentration per Run 1	31.522 ppb	22.423 ppb	170.329 ppb	17,736.657 ppb	22.629 ppb	30.453 ppb	216.730 ppb	426.305 ppb	83.996 %
Concentration per Run 2	31.132 ppb	23.125 ppb	176.943 ppb	17,956.035 ppb	21.960 ppb	29.654 ppb	212.445 ppb	426.441 ppb	87.332 %
Concentration per Run 3	29.696 ppb	22.745 ppb	171.394 ppb	17,687.859 ppb	22.650 ppb	30.287 ppb	217.078 ppb	430.935 ppb	82.152 %
Concentration RSD	3.1 %	1.5 %	2.1 %	0.8 %	1.8 %	1.4 %	1.2 %	0.6 %	3.1 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	7.092 ppb	5.128 ppb	102.234 ppb	38.139 ppb	83.280 %	2.123 ppb	2.700 ppb	86.672 %	18.835 ppb
Concentration per Run 1	6.924 ppb	5.369 ppb	98.300 ppb	36.895 ppb	82.844 %	2.140 ppb	2.681 ppb	83.900 %	18.977 ppb
Concentration per Run 2	7.298 ppb	5.686 ppb	106.491 ppb	38.651 ppb	85.818 %	2.096 ppb	2.682 ppb	90.775 %	18.864 ppb
Concentration per Run 3	7.056 ppb	4.330 ppb	101.910 ppb	38.870 ppb	81.178 %	2.132 ppb	2.738 ppb	85.341 %	18.665 ppb
Concentration RSD	2.7 %	13.8 %	4.0 %	2.8 %	2.8 %	1.1 %	1.2 %	4.2 %	0.8 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	166.330 ppb	91.268 %	94.357 %	4.412 ppb	140.276 ppb
Concentration per Run 1	162.552 ppb	89.723 %	91.199 %	4.385 ppb	142.035 ppb
Concentration per Run 2	171.039 ppb	93.846 %	99.179 %	4.277 ppb	136.703 ppb
Concentration per Run 3	165.398 ppb	90.236 %	92.692 %	4.573 ppb	142.090 ppb
Concentration RSD	2.6 %	2.5 %	4.5 %	3.4 %	2.2 %

Alpha ICPMSQ Data with SRD

3/5/2024 4:47:09 PM

Analysis index:	107	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	WG1890975-4d50 6020TS	Rack	2		
Analysis started at:	3/5/2024 2:26:23 PM	Vial	23		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	74.869 %	81.215 %	2.257 ppb	562.919 ppb	2,335.093 ppb	3,260.073 ppb	947.981 ppb	11,726.488 ppb	74.570 %
Concentration per Run 1	75.757 %	75.828 %	2.270 ppb	568.033 ppb	2,353.061 ppb	3,332.350 ppb	951.936 ppb	11,668.256 ppb	74.918 %
Concentration per Run 2	75.390 %	88.052 %	2.227 ppb	548.733 ppb	2,292.453 ppb	3,188.513 ppb	904.289 ppb	11,553.081 ppb	74.161 %
Concentration per Run 3	73.459 %	79.765 %	2.275 ppb	571.991 ppb	2,359.766 ppb	3,259.356 ppb	987.716 ppb	11,958.126 ppb	74.629 %
Concentration RSD	1.6 %	7.7 %	1.2 %	2.2 %	1.6 %	2.2 %	4.4 %	1.8 %	0.5 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	37.519 ppb	18.915 ppb	168.311 ppb	13,811.259 ppb	23.832 ppb	30.589 ppb	242.520 ppb	432.136 ppb	82.693 %
Concentration per Run 1	37.027 ppb	18.936 ppb	167.931 ppb	13,928.398 ppb	24.193 ppb	31.041 ppb	247.049 ppb	433.435 ppb	81.383 %
Concentration per Run 2	36.135 ppb	17.953 ppb	162.368 ppb	13,035.709 ppb	22.071 ppb	28.644 ppb	225.546 ppb	407.259 ppb	89.149 %
Concentration per Run 3	39.397 ppb	19.857 ppb	174.634 ppb	14,469.671 ppb	25.233 ppb	32.081 ppb	254.964 ppb	455.715 ppb	77.547 %
Concentration RSD	4.5 %	5.0 %	3.6 %	5.2 %	6.8 %	5.8 %	6.3 %	5.6 %	7.1 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	7.657 ppb	5.666 ppb	95.065 ppb	39.292 ppb	80.054 %	2.184 ppb	2.972 ppb	83.850 %	18.923 ppb
Concentration per Run 1	7.720 ppb	4.853 ppb	92.429 ppb	36.762 ppb	80.162 %	2.212 ppb	2.920 ppb	82.821 %	18.734 ppb
Concentration per Run 2	7.141 ppb	5.331 ppb	94.334 ppb	38.867 ppb	83.194 %	2.072 ppb	2.853 ppb	89.204 %	18.597 ppb
Concentration per Run 3	8.110 ppb	6.814 ppb	98.432 ppb	42.246 ppb	76.805 %	2.267 ppb	3.142 ppb	79.524 %	19.439 ppb
Concentration RSD	6.4 %	18.0 %	3.2 %	7.0 %	4.0 %	4.6 %	5.1 %	5.9 %	2.4 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	164.612 ppb	89.070 %	92.048 %	4.437 ppb	150.187 ppb
Concentration per Run 1	160.498 ppb	87.673 %	90.462 %	4.287 ppb	148.630 ppb
Concentration per Run 2	160.467 ppb	94.726 %	99.339 %	4.161 ppb	142.800 ppb
Concentration per Run 3	172.873 ppb	84.812 %	86.342 %	4.863 ppb	159.130 ppb
Concentration RSD	4.3 %	5.7 %	7.2 %	8.4 %	5.5 %

Alpha ICPMSQ Data with SRD

3/5/2024 4:47:09 PM

Analysis index: 108
Analysis label: WG1890975-5d50 6020TS
Analysis started at: 3/5/2024 2:31:03 PM
User name ALPHALAB\Metals-Instrument
Rack 2
Vial 24
Comment <Comment>

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	72.991 %	82.804 %	51.620 ppb	4,953.265 ppb	7,168.730 ppb	2,897.655 ppb	5,529.600 ppb	17,910.747 ppb	81.134 %
Concentration per Run 1	73.582 %	81.837 %	51.692 ppb	4,952.516 ppb	7,162.417 ppb	2,763.884 ppb	5,375.958 ppb	17,598.988 ppb	81.673 %
Concentration per Run 2	73.332 %	92.196 %	51.584 ppb	4,715.801 ppb	6,837.717 ppb	2,931.913 ppb	5,637.590 ppb	18,110.492 ppb	80.847 %
Concentration per Run 3	72.059 %	74.378 %	51.583 ppb	5,191.477 ppb	7,506.057 ppb	2,997.170 ppb	5,575.252 ppb	18,022.763 ppb	80.883 %
Concentration RSD	1.1 %	10.8 %	0.1 %	4.8 %	4.7 %	4.2 %	2.5 %	1.5 %	0.6 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	60.112 ppb	62.370 ppb	160.196 ppb	11,994.392 ppb	52.058 ppb	67.641 ppb	1,806.126 ppb	693.347 ppb	80.123 %
Concentration per Run 1	61.653 ppb	62.481 ppb	165.120 ppb	12,166.113 ppb	52.979 ppb	67.700 ppb	1,826.792 ppb	688.621 ppb	78.777 %
Concentration per Run 2	58.687 ppb	62.438 ppb	157.463 ppb	11,978.437 ppb	52.457 ppb	68.984 ppb	1,824.558 ppb	715.274 ppb	79.363 %
Concentration per Run 3	59.996 ppb	62.192 ppb	158.004 ppb	11,838.626 ppb	50.738 ppb	66.238 ppb	1,767.028 ppb	676.146 ppb	82.230 %
Concentration RSD	2.5 %	0.3 %	2.7 %	1.4 %	2.3 %	2.0 %	1.9 %	2.9 %	2.3 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	52.994 ppb	56.752 ppb	120.337 ppb	50.996 ppb	80.014 %	1.096 ppb	52.369 ppb	83.201 %	53.254 ppb
Concentration per Run 1	53.365 ppb	55.976 ppb	116.491 ppb	49.691 ppb	80.276 %	1.052 ppb	50.906 ppb	81.564 %	53.524 ppb
Concentration per Run 2	53.862 ppb	62.389 ppb	129.180 ppb	52.023 ppb	80.666 %	1.097 ppb	53.032 ppb	86.512 %	53.312 ppb
Concentration per Run 3	51.755 ppb	51.891 ppb	115.340 ppb	51.276 ppb	79.100 %	1.141 ppb	53.171 ppb	81.528 %	52.926 ppb
Concentration RSD	2.1 %	9.3 %	6.4 %	2.3 %	1.0 %	4.1 %	2.4 %	3.4 %	0.6 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	114.606 ppb	90.499 %	92.408 %	47.471 ppb	561.706 ppb
Concentration per Run 1	111.958 ppb	89.245 %	90.199 %	47.704 ppb	569.295 ppb
Concentration per Run 2	117.992 ppb	92.934 %	95.767 %	46.075 ppb	550.941 ppb
Concentration per Run 3	113.869 ppb	89.317 %	91.259 %	48.634 ppb	564.882 ppb
Concentration RSD	2.7 %	2.3 %	3.2 %	2.7 %	1.7 %

Alpha ICPMSQ Data with SRD

3/5/2024 4:47:09 PM

Analysis index: 109
Analysis label: WG1890975-6d50 6020TS
Analysis started at: 3/5/2024 2:35:43 PM
User name ALPHALAB\Metals-Instrument
Rack 2
Vial 25
Comment <Comment>

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	72.742 %	83.149 %	0.135 ppb	134.235 ppb	2,161.244 ppb	2,809.887 ppb	463.306 ppb	12,590.867 ppb	76.578 %
Concentration per Run 1	73.673 %	84.945 %	0.146 ppb	129.377 ppb	2,133.708 ppb	2,776.948 ppb	467.496 ppb	12,725.703 ppb	76.882 %
Concentration per Run 2	72.974 %	81.837 %	0.140 ppb	139.659 ppb	2,222.354 ppb	2,929.821 ppb	482.268 ppb	12,586.254 ppb	76.912 %
Concentration per Run 3	71.579 %	82.666 %	0.121 ppb	133.668 ppb	2,127.669 ppb	2,722.893 ppb	440.153 ppb	12,460.642 ppb	75.941 %
Concentration RSD	1.5 %	1.9 %	9.5 %	3.8 %	2.5 %	3.8 %	4.6 %	1.1 %	0.7 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	8.209 ppb	10.368 ppb	105.010 ppb	6,856.843 ppb	2.242 ppb	16.359 ppb	1,709.680 ppb	625.299 ppb	82.940 %
Concentration per Run 1	8.354 ppb	10.001 ppb	104.711 ppb	6,759.710 ppb	2.259 ppb	15.907 ppb	1,644.351 ppb	599.288 ppb	86.973 %
Concentration per Run 2	8.254 ppb	10.702 ppb	105.935 ppb	7,078.082 ppb	2.228 ppb	17.945 ppb	1,771.436 ppb	656.703 ppb	79.950 %
Concentration per Run 3	8.020 ppb	10.400 ppb	104.385 ppb	6,732.738 ppb	2.239 ppb	15.226 ppb	1,713.252 ppb	619.905 ppb	81.898 %
Concentration RSD	2.1 %	3.4 %	0.8 %	2.8 %	0.7 %	8.6 %	3.7 %	4.7 %	4.4 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	2.228 ppb	0.813 ppb	63.539 ppb	1.385 ppb	81.691 %	0.577 ppb	0.794 ppb	84.502 %	2.649 ppb
Concentration per Run 1	2.108 ppb	0.570 ppb	62.855 ppb	1.425 ppb	84.330 %	0.553 ppb	0.784 ppb	88.797 %	2.560 ppb
Concentration per Run 2	2.400 ppb	1.003 ppb	65.453 ppb	1.241 ppb	79.029 %	0.606 ppb	0.821 ppb	82.060 %	2.728 ppb
Concentration per Run 3	2.175 ppb	0.866 ppb	62.308 ppb	1.488 ppb	81.713 %	0.573 ppb	0.776 ppb	82.649 %	2.659 ppb
Concentration RSD	6.9 %	27.2 %	2.6 %	9.3 %	3.2 %	4.6 %	3.0 %	4.4 %	3.2 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	63.139 ppb	89.455 %	91.741 %	0.455 ppb	513.545 ppb
Concentration per Run 1	61.915 ppb	92.800 %	95.729 %	0.386 ppb	497.482 ppb
Concentration per Run 2	65.016 ppb	86.639 %	88.584 %	0.541 ppb	530.917 ppb
Concentration per Run 3	62.487 ppb	88.925 %	90.911 %	0.438 ppb	512.236 ppb
Concentration RSD	2.6 %	3.5 %	4.0 %	17.3 %	3.3 %

Alpha ICPMSQ Data with SRD

3/5/2024 4:47:09 PM

Analysis index:	110	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	I2410383-01d10 6020TS	Rack	2		
Analysis started at:	3/5/2024 2:40:22 PM	Vial	21		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	72.318 %	83.425 %	0.613 ppb	635.837 ppb	10,015.538 ppb	12,962.659 ppb	2,242.770 ppb	58,841.994 ppb	87.772 %
Concentration per Run 1	74.243 %	90.953 %	0.592 ppb	603.874 ppb	9,589.326 ppb	12,169.699 ppb	2,153.003 ppb	58,181.700 ppb	90.072 %
Concentration per Run 2	71.993 %	80.801 %	0.609 ppb	658.783 ppb	10,206.852 ppb	13,263.121 ppb	2,264.776 ppb	59,530.995 ppb	87.853 %
Concentration per Run 3	70.719 %	78.522 %	0.639 ppb	644.852 ppb	10,250.436 ppb	13,455.156 ppb	2,310.530 ppb	58,813.287 ppb	85.391 %
Concentration RSD	2.5 %	7.9 %	3.9 %	4.5 %	3.7 %	5.3 %	3.6 %	1.1 %	2.7 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	41.506 ppb	50.727 ppb	507.502 ppb	33,373.706 ppb	10.906 ppb	79.128 ppb	8,332.551 ppb	2,965.432 ppb	79.398 %
Concentration per Run 1	40.741 ppb	50.410 ppb	503.711 ppb	33,037.295 ppb	10.841 ppb	78.586 ppb	8,390.326 ppb	2,968.015 ppb	77.934 %
Concentration per Run 2	42.432 ppb	51.014 ppb	522.311 ppb	33,962.040 ppb	11.109 ppb	81.937 ppb	8,537.193 ppb	3,064.409 ppb	77.234 %
Concentration per Run 3	41.346 ppb	50.758 ppb	496.485 ppb	33,121.783 ppb	10.767 ppb	76.860 ppb	8,070.136 ppb	2,863.872 ppb	83.026 %
Concentration RSD	2.1 %	0.6 %	2.6 %	1.5 %	1.7 %	3.3 %	2.9 %	3.4 %	4.0 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	10.604 ppb	3.052 ppb	307.402 ppb	2.042 ppb	77.855 %	2.752 ppb	3.948 ppb	79.862 %	12.162 ppb
Concentration per Run 1	10.905 ppb	3.069 ppb	313.319 ppb	1.980 ppb	76.848 %	2.779 ppb	4.075 ppb	78.065 %	12.122 ppb
Concentration per Run 2	10.440 ppb	3.179 ppb	308.770 ppb	2.073 ppb	78.897 %	2.778 ppb	3.911 ppb	80.995 %	12.355 ppb
Concentration per Run 3	10.467 ppb	2.907 ppb	300.118 ppb	2.072 ppb	77.820 %	2.698 ppb	3.858 ppb	80.526 %	12.008 ppb
Concentration RSD	2.5 %	4.5 %	2.2 %	2.6 %	1.3 %	1.7 %	2.9 %	2.0 %	1.5 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	308.914 ppb	88.462 %	89.833 %	0.294 ppb	2,456.136 ppb
Concentration per Run 1	316.682 ppb	88.312 %	89.715 %	0.241 ppb	2,449.691 ppb
Concentration per Run 2	301.565 ppb	88.942 %	89.878 %	0.323 ppb	2,461.197 ppb
Concentration per Run 3	308.496 ppb	88.132 %	89.907 %	0.318 ppb	2,457.521 ppb
Concentration RSD	2.4 %	0.5 %	0.1 %	15.5 %	0.2 %

Alpha ICPMSQ Data with SRD

3/5/2024 4:47:09 PM

Analysis index:	111	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	I2407990-01d10 6020TS	Rack	2		
Analysis started at:	3/5/2024 2:45:01 PM	Vial	26		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	72.375 %	81.146 %	2.312 ppb	461.074 ppb	15,617.149 ppb	19,072.266 ppb	1,427.599 ppb	66,908.521 ppb	95.637 %
Concentration per Run 1	73.619 %	83.080 %	2.325 ppb	478.129 ppb	16,163.468 ppb	20,332.673 ppb	1,546.686 ppb	70,692.375 ppb	96.245 %
Concentration per Run 2	72.386 %	82.044 %	2.324 ppb	444.994 ppb	15,338.982 ppb	18,337.895 ppb	1,401.939 ppb	64,779.129 ppb	95.813 %
Concentration per Run 3	71.120 %	78.315 %	2.286 ppb	460.098 ppb	15,348.998 ppb	18,546.229 ppb	1,334.170 ppb	65,254.060 ppb	94.851 %
Concentration RSD	1.7 %	3.1 %	1.0 %	3.6 %	3.0 %	5.7 %	7.6 %	4.9 %	0.7 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	79.325 ppb	57.180 ppb	2,710.228 ppb	62,631.414 ppb	17.644 ppb	59.357 ppb	261.005 ppb	520.350 ppb	80.956 %
Concentration per Run 1	81.037 ppb	57.828 ppb	2,871.871 ppb	64,228.643 ppb	17.532 ppb	59.694 ppb	259.464 ppb	526.294 ppb	82.779 %
Concentration per Run 2	76.862 ppb	55.672 ppb	2,601.600 ppb	61,602.506 ppb	17.309 ppb	59.052 ppb	261.397 ppb	510.291 ppb	81.289 %
Concentration per Run 3	80.077 ppb	58.041 ppb	2,657.214 ppb	62,063.094 ppb	18.091 ppb	59.324 ppb	262.156 ppb	524.467 ppb	78.799 %
Concentration RSD	2.8 %	2.3 %	5.3 %	2.2 %	2.3 %	0.5 %	0.5 %	1.7 %	2.5 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	244.939 ppb	5.328 ppb	158.352 ppb	4.265 ppb	78.436 %	0.541 ppb	2.152 ppb	83.258 %	10.941 ppb
Concentration per Run 1	251.017 ppb	5.411 ppb	165.149 ppb	4.189 ppb	79.538 %	0.513 ppb	2.160 ppb	86.662 %	11.004 ppb
Concentration per Run 2	242.117 ppb	5.347 ppb	154.314 ppb	4.214 ppb	77.792 %	0.538 ppb	2.211 ppb	81.763 %	10.826 ppb
Concentration per Run 3	241.681 ppb	5.225 ppb	155.594 ppb	4.392 ppb	77.978 %	0.573 ppb	2.084 ppb	81.349 %	10.993 ppb
Concentration RSD	2.2 %	1.8 %	3.7 %	2.6 %	1.2 %	5.6 %	3.0 %	3.5 %	0.9 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	270.760 ppb	91.984 %	93.650 %	0.327 ppb	546.148 ppb
Concentration per Run 1	275.566 ppb	93.010 %	98.061 %	0.279 ppb	526.763 ppb
Concentration per Run 2	269.432 ppb	91.913 %	94.029 %	0.339 ppb	540.413 ppb
Concentration per Run 3	267.283 ppb	91.027 %	88.860 %	0.364 ppb	571.268 ppb
Concentration RSD	1.6 %	1.1 %	4.9 %	13.4 %	4.2 %

Alpha ICPMSQ Data with SRD

3/5/2024 4:47:09 PM

Analysis index: 112
Analysis label: I2410383-02d10 6020TS
Analysis started at: 3/5/2024 2:49:40 PM
User name ALPHALAB\Metals-Instrument
Rack 2
Vial 27
Comment <Comment>

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	72.825 %	84.876 %	0.829 ppb	856.689 ppb	10,103.501 ppb	14,883.827 ppb	2,649.605 ppb	53,779.673 ppb	94.988 %
Concentration per Run 1	73.150 %	86.188 %	0.847 ppb	917.172 ppb	10,902.695 ppb	16,304.944 ppb	2,950.479 ppb	56,938.942 ppb	94.990 %
Concentration per Run 2	73.119 %	81.422 %	0.802 ppb	872.671 ppb	10,334.911 ppb	14,722.724 ppb	2,630.698 ppb	53,895.154 ppb	95.593 %
Concentration per Run 3	72.205 %	87.016 %	0.838 ppb	780.224 ppb	9,072.899 ppb	13,623.813 ppb	2,367.638 ppb	50,504.922 ppb	94.380 %
Concentration RSD	0.7 %	3.6 %	2.9 %	8.2 %	9.3 %	9.1 %	11.0 %	6.0 %	0.6 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	61.234 ppb	76.774 ppb	797.930 ppb	88,170.714 ppb	17.600 ppb	79.001 ppb	6,360.140 ppb	5,196.885 ppb	82.459 %
Concentration per Run 1	63.931 ppb	80.055 ppb	844.158 ppb	90,803.117 ppb	17.833 ppb	79.193 ppb	6,333.744 ppb	5,307.439 ppb	84.142 %
Concentration per Run 2	61.238 ppb	76.196 ppb	785.561 ppb	87,202.096 ppb	17.421 ppb	79.235 ppb	6,307.486 ppb	5,155.505 ppb	83.679 %
Concentration per Run 3	58.534 ppb	74.070 ppb	764.071 ppb	86,506.930 ppb	17.546 ppb	78.576 ppb	6,439.190 ppb	5,127.711 ppb	79.556 %
Concentration RSD	4.4 %	4.0 %	5.2 %	2.6 %	1.2 %	0.5 %	1.1 %	1.9 %	3.1 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	15.803 ppb	3.194 ppb	279.466 ppb	3.035 ppb	80.636 %	1.211 ppb	6.504 ppb	86.701 %	4.279 ppb
Concentration per Run 1	16.318 ppb	2.700 ppb	300.119 ppb	2.919 ppb	80.746 %	1.216 ppb	6.783 ppb	89.256 %	4.489 ppb
Concentration per Run 2	15.330 ppb	3.517 ppb	274.645 ppb	2.954 ppb	80.091 %	1.222 ppb	6.522 ppb	85.230 %	4.237 ppb
Concentration per Run 3	15.761 ppb	3.364 ppb	263.636 ppb	3.231 ppb	81.071 %	1.193 ppb	6.205 ppb	85.617 %	4.110 ppb
Concentration RSD	3.1 %	13.6 %	6.7 %	5.6 %	0.6 %	1.3 %	4.5 %	2.6 %	4.5 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	370.622 ppb	92.126 %	95.510 %	0.234 ppb	1,209.712 ppb
Concentration per Run 1	390.347 ppb	91.372 %	97.524 %	0.206 ppb	1,209.611 ppb
Concentration per Run 2	361.446 ppb	95.092 %	93.697 %	0.252 ppb	1,226.074 ppb
Concentration per Run 3	360.071 ppb	89.915 %	95.308 %	0.244 ppb	1,193.450 ppb
Concentration RSD	4.6 %	2.9 %	2.0 %	10.5 %	1.3 %

Alpha ICPMSQ Data with SRD

3/5/2024 4:47:09 PM

Analysis index:	113	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	CCV	Rack	0		
Analysis started at:	3/5/2024 2:54:42 PM	Vial	9		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	71.240 %	81.699 %	62.022 ppb	5,851.821 ppb	5,955.687 ppb	58.795 ppb	5,888.285 ppb	6,025.570 ppb	76.228 %
Concentration per Run 1	72.971 %	88.052 %	62.833 ppb	5,708.379 ppb	5,885.383 ppb	55.285 ppb	5,868.611 ppb	6,238.165 ppb	77.783 %
Concentration per Run 2	70.621 %	81.630 %	61.171 ppb	5,756.602 ppb	5,815.014 ppb	58.283 ppb	5,714.579 ppb	5,874.545 ppb	75.454 %
Concentration per Run 3	70.127 %	75.414 %	62.061 ppb	6,090.484 ppb	6,166.664 ppb	62.819 ppb	6,081.665 ppb	5,964.001 ppb	75.448 %
Recovery Percentage 1			103.369 %	97.530 %	99.261 %	97.992 %	98.138 %	100.426 %	
Concentration RSD	2.1 %	7.7 %	1.3 %	3.6 %	3.1 %	6.5 %	3.1 %	3.1 %	1.8 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	61.795 ppb	61.550 ppb	59.197 ppb	5,877.621 ppb	60.352 ppb	62.644 ppb	61.899 ppb	60.671 ppb	81.282 %
Concentration per Run 1	61.670 ppb	62.178 ppb	59.023 ppb	5,908.549 ppb	60.511 ppb	63.287 ppb	63.839 ppb	61.632 ppb	80.087 %
Concentration per Run 2	61.382 ppb	60.284 ppb	58.441 ppb	5,811.045 ppb	59.135 ppb	60.660 ppb	59.994 ppb	58.115 ppb	84.251 %
Concentration per Run 3	62.333 ppb	62.189 ppb	60.129 ppb	5,913.269 ppb	61.410 ppb	63.986 ppb	61.863 ppb	62.266 ppb	79.507 %
Recovery Percentage 1	102.992 %	102.584 %	98.662 %	97.960 %	100.587 %	104.407 %	103.165 %	101.118 %	
Concentration RSD	0.8 %	1.8 %	1.4 %	1.0 %	1.9 %	2.8 %	3.1 %	3.7 %	3.2 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	61.249 ppb	61.747 ppb	60.646 ppb	61.008 ppb	80.840 %	62.728 ppb	63.403 ppb	80.509 %	58.888 ppb
Concentration per Run 1	63.448 ppb	66.875 ppb	63.415 ppb	61.914 ppb	80.249 %	64.833 ppb	65.160 ppb	80.992 %	61.235 ppb
Concentration per Run 2	59.214 ppb	59.175 ppb	58.115 ppb	60.785 ppb	81.192 %	61.630 ppb	62.845 ppb	79.303 %	58.271 ppb
Concentration per Run 3	61.086 ppb	59.191 ppb	60.408 ppb	60.325 ppb	81.079 %	61.722 ppb	62.206 ppb	81.234 %	57.160 ppb
Recovery Percentage 1	102.082 %	102.912 %	101.076 %	101.680 %		104.547 %	105.672 %		98.147 %
Concentration RSD	3.5 %	7.2 %	4.4 %	1.3 %	0.6 %	2.9 %	2.5 %	1.3 %	3.6 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	62.856 ppb	86.683 %	87.774 %	63.324 ppb	63.488 ppb
Concentration per Run 1	65.175 ppb	85.239 %	86.907 %	63.955 ppb	66.055 ppb
Concentration per Run 2	61.804 ppb	87.043 %	86.255 %	64.565 ppb	63.462 ppb
Concentration per Run 3	61.589 ppb	87.768 %	90.161 %	61.453 ppb	60.947 ppb
Recovery Percentage 1	104.760 %			105.540 %	105.814 %
Concentration RSD	3.2 %	1.5 %	2.4 %	2.6 %	4.0 %

Alpha ICPMSQ Data with SRD

3/5/2024 4:47:09 PM

Analysis index: 114
Analysis label: CCB
Analysis started at: 3/5/2024 2:59:24 PM
User name ALPHALAB\Metals-Instrument
Rack 0
Vial 10
Comment <Comment>

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	70.096 %	80.594 %	0.010 ppb	0.238 ppb	-0.324 ppb	0.099 ppb	-1.870 ppb	0.226 ppb	75.336 %
Concentration per Run 1	71.835 %	86.188 %	0.005 ppb	-0.348 ppb	-0.097 ppb	0.280 ppb	-3.173 ppb	3.480 ppb	76.418 %
Concentration per Run 2	69.650 %	73.964 %	0.020 ppb	1.268 ppb	-0.551 ppb	-0.005 ppb	-2.188 ppb	1.119 ppb	75.447 %
Concentration per Run 3	68.804 %	81.630 %	0.006 ppb	-0.205 ppb	-0.325 ppb	0.024 ppb	-0.248 ppb	-3.920 ppb	74.142 %
Recovery Percentage 1			2.088 %	0.238 %	-0.463 %	0.994 %	-1.870 %	0.226 %	
Concentration RSD	2.2 %	7.7 %	79.1 %	375.0 %	69.9 %	157.8 %	79.6 %	1,670.1 %	1.5 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.012 ppb	0.000 ppb	0.003 ppb	19.305 ppb	0.001 ppb	0.007 ppb	0.050 ppb	0.260 ppb	82.558 %
Concentration per Run 1	-0.023 ppb	-0.005 ppb	0.007 ppb	16.590 ppb	-0.002 ppb	0.004 ppb	0.045 ppb	0.311 ppb	82.842 %
Concentration per Run 2	-0.005 ppb	-0.003 ppb	-0.021 ppb	25.188 ppb	0.004 ppb	0.001 ppb	0.040 ppb	0.247 ppb	78.914 %
Concentration per Run 3	-0.007 ppb	0.008 ppb	0.021 ppb	16.135 ppb	0.000 ppb	0.016 ppb	0.064 ppb	0.223 ppb	85.917 %
Recovery Percentage 1	-0.231 %	-0.030 %	0.251 %	38.609 %	0.115 %	0.346 %	4.969 %	5.206 %	
Concentration RSD	85.6 %	2,285.7 %	865.5 %	26.4 %	576.2 %	115.0 %	26.1 %	17.4 %	4.3 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.119 ppb	0.352 ppb	0.000 ppb	0.731 ppb	84.070 %	0.003 ppb	0.006 ppb	83.853 %	0.621 ppb
Concentration per Run 1	0.130 ppb	0.250 ppb	0.005 ppb	0.624 ppb	84.432 %	0.003 ppb	0.012 ppb	83.955 %	0.602 ppb
Concentration per Run 2	0.117 ppb	0.368 ppb	-0.001 ppb	0.780 ppb	81.540 %	0.003 ppb	0.004 ppb	81.260 %	0.657 ppb
Concentration per Run 3	0.109 ppb	0.439 ppb	-0.003 ppb	0.788 ppb	86.238 %	0.003 ppb	0.003 ppb	86.345 %	0.603 ppb
Recovery Percentage 1	23.722 %	7.047 %	0.003 %	36.529 %		0.724 %	3.172 %		15.523 %
Concentration RSD	8.8 %	27.1 %	1,506.1 %	12.7 %	2.8 %	9.6 %	80.8 %	3.0 %	5.1 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	0.009 ppb	88.212 %	89.766 %	0.391 ppb	0.155 ppb
Concentration per Run 1	0.003 ppb	88.235 %	88.804 %	0.360 ppb	0.167 ppb
Concentration per Run 2	0.016 ppb	87.135 %	87.549 %	0.451 ppb	0.157 ppb
Concentration per Run 3	0.009 ppb	89.266 %	92.947 %	0.362 ppb	0.142 ppb
Recovery Percentage 1	1.841 %			39.124 %	15.510 %
Concentration RSD	66.4 %	1.2 %	3.1 %	13.3 %	8.2 %

Alpha ICPMSQ Data with SRD

3/5/2024 4:47:09 PM

Analysis index:	115	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	I2410383-01d100 6020TS	Rack	2		
Analysis started at:	3/5/2024 3:04:09 PM	Vial	29		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	71.274 %	77.831 %	0.077 ppb	69.111 ppb	1,087.900 ppb	1,371.877 ppb	235.431 ppb	6,110.263 ppb	76.521 %
Concentration per Run 1	71.283 %	76.243 %	0.087 ppb	73.585 ppb	1,127.093 ppb	1,449.169 ppb	239.069 ppb	6,409.090 ppb	75.922 %
Concentration per Run 2	71.129 %	76.036 %	0.075 ppb	67.653 ppb	1,094.927 ppb	1,335.017 ppb	234.004 ppb	5,934.342 ppb	75.960 %
Concentration per Run 3	71.411 %	81.215 %	0.068 ppb	66.096 ppb	1,041.680 ppb	1,331.443 ppb	233.220 ppb	5,987.356 ppb	77.682 %
Concentration RSD	0.2 %	3.8 %	12.5 %	5.7 %	4.0 %	4.9 %	1.3 %	4.3 %	1.3 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	4.154 ppb	5.236 ppb	50.806 ppb	3,358.219 ppb	1.145 ppb	8.222 ppb	852.381 ppb	310.876 ppb	82.086 %
Concentration per Run 1	4.147 ppb	5.432 ppb	52.765 ppb	3,463.429 ppb	1.228 ppb	8.070 ppb	866.189 ppb	316.924 ppb	83.109 %
Concentration per Run 2	4.248 ppb	5.221 ppb	50.525 ppb	3,352.427 ppb	1.148 ppb	8.551 ppb	872.987 ppb	314.029 ppb	77.670 %
Concentration per Run 3	4.068 ppb	5.056 ppb	49.128 ppb	3,258.800 ppb	1.060 ppb	8.044 ppb	817.968 ppb	301.675 ppb	85.480 %
Concentration RSD	2.2 %	3.6 %	3.6 %	3.1 %	7.3 %	3.5 %	3.5 %	2.6 %	4.9 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	1.051 ppb	0.400 ppb	29.922 ppb	0.434 ppb	82.768 %	0.273 ppb	0.391 ppb	82.669 %	1.467 ppb
Concentration per Run 1	1.168 ppb	0.444 ppb	30.372 ppb	0.376 ppb	84.696 %	0.270 ppb	0.376 ppb	83.967 %	1.452 ppb
Concentration per Run 2	0.979 ppb	0.367 ppb	29.427 ppb	0.421 ppb	80.400 %	0.264 ppb	0.405 ppb	78.431 %	1.433 ppb
Concentration per Run 3	1.007 ppb	0.390 ppb	29.968 ppb	0.503 ppb	83.207 %	0.285 ppb	0.391 ppb	85.609 %	1.518 ppb
Concentration RSD	9.7 %	9.9 %	1.6 %	14.9 %	2.6 %	4.0 %	3.7 %	4.5 %	3.0 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	30.414 ppb	89.277 %	90.214 %	0.138 ppb	254.693 ppb
Concentration per Run 1	30.892 ppb	89.947 %	91.695 %	0.101 ppb	254.105 ppb
Concentration per Run 2	29.499 ppb	87.490 %	87.619 %	0.160 ppb	255.565 ppb
Concentration per Run 3	30.851 ppb	90.394 %	91.328 %	0.152 ppb	254.410 ppb
Concentration RSD	2.6 %	1.8 %	2.5 %	23.1 %	0.3 %

Alpha ICPMSQ Data with SRD

3/5/2024 4:47:09 PM

Analysis index:	116	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	I2407990-01d100 6020TS	Rack	2		
Analysis started at:	3/5/2024 3:08:48 PM	Vial	31		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	71.085 %	82.389 %	0.242 ppb	45.119 ppb	1,500.962 ppb	1,779.270 ppb	132.975 ppb	6,425.142 ppb	79.905 %
Concentration per Run 1	71.050 %	80.801 %	0.229 ppb	47.135 ppb	1,528.056 ppb	1,832.441 ppb	146.286 ppb	6,932.588 ppb	79.479 %
Concentration per Run 2	72.279 %	82.458 %	0.274 ppb	42.270 ppb	1,447.834 ppb	1,682.754 ppb	129.022 ppb	6,039.888 ppb	80.719 %
Concentration per Run 3	69.925 %	83.909 %	0.221 ppb	45.953 ppb	1,526.996 ppb	1,822.615 ppb	123.618 ppb	6,302.950 ppb	79.517 %
Concentration RSD	1.7 %	1.9 %	11.7 %	5.6 %	3.1 %	4.7 %	8.9 %	7.1 %	0.9 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	7.257 ppb	5.556 ppb	252.318 ppb	5,680.884 ppb	1.730 ppb	6.001 ppb	27.121 ppb	53.415 ppb	81.336 %
Concentration per Run 1	6.851 ppb	5.694 ppb	256.703 ppb	5,755.437 ppb	1.809 ppb	6.304 ppb	27.832 ppb	54.913 ppb	80.627 %
Concentration per Run 2	7.105 ppb	5.521 ppb	248.871 ppb	5,595.901 ppb	1.687 ppb	6.083 ppb	26.615 ppb	52.429 ppb	80.999 %
Concentration per Run 3	7.815 ppb	5.454 ppb	251.381 ppb	5,691.313 ppb	1.695 ppb	5.614 ppb	26.916 ppb	52.904 ppb	82.381 %
Concentration RSD	6.9 %	2.2 %	1.6 %	1.4 %	3.9 %	5.9 %	2.3 %	2.5 %	1.1 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	24.106 ppb	0.385 ppb	15.018 ppb	0.515 ppb	80.853 %	0.056 ppb	0.214 ppb	82.265 %	1.204 ppb
Concentration per Run 1	24.866 ppb	0.185 ppb	15.288 ppb	0.509 ppb	81.411 %	0.052 ppb	0.206 ppb	84.443 %	1.168 ppb
Concentration per Run 2	23.412 ppb	0.357 ppb	14.331 ppb	0.444 ppb	79.821 %	0.059 ppb	0.212 ppb	78.589 %	1.198 ppb
Concentration per Run 3	24.041 ppb	0.613 ppb	15.436 ppb	0.593 ppb	81.327 %	0.057 ppb	0.223 ppb	83.762 %	1.248 ppb
Concentration RSD	3.0 %	56.0 %	4.0 %	14.5 %	1.1 %	5.6 %	3.9 %	3.9 %	3.4 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	26.835 ppb	89.108 %	90.705 %	0.099 ppb	53.746 ppb
Concentration per Run 1	26.617 ppb	89.534 %	92.798 %	0.071 ppb	52.666 ppb
Concentration per Run 2	26.550 ppb	87.532 %	88.106 %	0.116 ppb	54.472 ppb
Concentration per Run 3	27.339 ppb	90.259 %	91.213 %	0.110 ppb	54.100 ppb
Concentration RSD	1.6 %	1.6 %	2.6 %	24.8 %	1.8 %

Alpha ICPMSQ Data with SRD

3/5/2024 4:47:09 PM

Analysis index:	117	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	WG1890975-6d500 6020TS	Rack	2		
Analysis started at:	3/5/2024 3:13:27 PM	Vial	30		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	71.161 %	84.461 %	0.025 ppb	13.725 ppb	203.758 ppb	252.224 ppb	37.853 ppb	1,145.606 ppb	74.990 %
Concentration per Run 1	72.217 %	86.602 %	0.030 ppb	11.145 ppb	194.823 ppb	248.038 ppb	33.955 ppb	1,095.371 ppb	75.629 %
Concentration per Run 2	71.874 %	86.602 %	0.029 ppb	14.070 ppb	194.041 ppb	245.681 ppb	49.480 ppb	1,130.643 ppb	75.711 %
Concentration per Run 3	69.392 %	80.179 %	0.017 ppb	15.958 ppb	222.410 ppb	262.953 ppb	30.124 ppb	1,210.803 ppb	73.629 %
Concentration RSD	2.2 %	4.4 %	29.3 %	17.7 %	7.9 %	3.7 %	27.1 %	5.2 %	1.6 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.830 ppb	1.084 ppb	10.445 ppb	655.156 ppb	0.259 ppb	1.849 ppb	163.488 ppb	60.452 ppb	82.212 %
Concentration per Run 1	0.891 ppb	1.124 ppb	10.500 ppb	667.659 ppb	0.259 ppb	1.832 ppb	167.185 ppb	61.285 ppb	78.732 %
Concentration per Run 2	0.840 ppb	0.977 ppb	10.248 ppb	636.247 ppb	0.250 ppb	1.792 ppb	159.735 ppb	57.735 ppb	84.835 %
Concentration per Run 3	0.758 ppb	1.152 ppb	10.586 ppb	661.563 ppb	0.267 ppb	1.924 ppb	163.543 ppb	62.337 ppb	83.071 %
Concentration RSD	8.1 %	8.7 %	1.7 %	2.5 %	3.2 %	3.7 %	2.3 %	4.0 %	3.8 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.252 ppb	0.288 ppb	5.911 ppb	0.161 ppb	82.763 %	0.061 ppb	0.079 ppb	83.238 %	0.351 ppb
Concentration per Run 1	0.359 ppb	0.368 ppb	5.805 ppb	0.121 ppb	81.452 %	0.057 ppb	0.073 ppb	79.343 %	0.337 ppb
Concentration per Run 2	0.185 ppb	0.290 ppb	5.882 ppb	0.171 ppb	83.890 %	0.061 ppb	0.095 ppb	82.724 %	0.344 ppb
Concentration per Run 3	0.211 ppb	0.205 ppb	6.046 ppb	0.190 ppb	82.946 %	0.065 ppb	0.069 ppb	87.649 %	0.372 ppb
Concentration RSD	37.3 %	28.5 %	2.1 %	22.2 %	1.5 %	6.5 %	17.7 %	5.0 %	5.4 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	6.185 ppb	87.954 %	88.919 %	0.061 ppb	48.469 ppb
Concentration per Run 1	6.390 ppb	85.658 %	85.478 %	0.040 ppb	49.362 ppb
Concentration per Run 2	6.223 ppb	88.788 %	90.200 %	0.072 ppb	48.009 ppb
Concentration per Run 3	5.942 ppb	89.417 %	91.079 %	0.073 ppb	48.037 ppb
Concentration RSD	3.7 %	2.3 %	3.4 %	30.5 %	1.6 %

Alpha ICPMSQ Data with SRD

3/5/2024 4:47:09 PM

Analysis index:	118	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	CCV	Rack	0		
Analysis started at:	3/5/2024 3:18:06 PM	Vial	9		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	69.731 %	79.558 %	61.875 ppb	5,987.278 ppb	6,171.539 ppb	62.461 ppb	5,935.916 ppb	5,946.999 ppb	69.074 %
Concentration per Run 1	69.654 %	81.630 %	61.810 ppb	5,793.040 ppb	5,935.245 ppb	56.238 ppb	5,695.286 ppb	5,724.272 ppb	69.298 %
Concentration per Run 2	70.272 %	80.594 %	61.347 ppb	5,940.570 ppb	6,153.782 ppb	63.337 ppb	5,829.699 ppb	6,113.393 ppb	69.410 %
Concentration per Run 3	69.269 %	76.450 %	62.470 ppb	6,228.224 ppb	6,425.589 ppb	67.809 ppb	6,282.763 ppb	6,003.333 ppb	68.513 %
Recovery Percentage 1			103.126 %	99.788 %	102.859 %	104.102 %	98.932 %	99.117 %	
Concentration RSD	0.7 %	3.4 %	0.9 %	3.7 %	4.0 %	9.3 %	5.2 %	3.4 %	0.7 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	61.354 ppb	61.787 ppb	61.358 ppb	5,986.172 ppb	61.694 ppb	62.500 ppb	62.837 ppb	61.469 ppb	80.285 %
Concentration per Run 1	58.995 ppb	59.755 ppb	59.496 ppb	5,909.565 ppb	62.379 ppb	61.854 ppb	63.463 ppb	60.224 ppb	80.049 %
Concentration per Run 2	60.082 ppb	60.669 ppb	60.541 ppb	5,824.167 ppb	59.735 ppb	61.842 ppb	61.885 ppb	60.672 ppb	82.113 %
Concentration per Run 3	64.985 ppb	64.939 ppb	64.037 ppb	6,224.784 ppb	62.967 ppb	63.803 ppb	63.162 ppb	63.512 ppb	78.693 %
Recovery Percentage 1	102.257 %	102.979 %	102.264 %	99.770 %	102.823 %	104.166 %	104.728 %	102.449 %	
Concentration RSD	5.2 %	4.5 %	3.9 %	3.5 %	2.8 %	1.8 %	1.3 %	2.9 %	2.1 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	62.550 ppb	63.609 ppb	61.976 ppb	60.974 ppb	80.273 %	63.881 ppb	64.189 ppb	79.914 %	58.252 ppb
Concentration per Run 1	60.638 ppb	58.942 ppb	60.104 ppb	58.322 ppb	78.509 %	65.169 ppb	65.323 ppb	75.232 %	59.579 ppb
Concentration per Run 2	61.972 ppb	61.618 ppb	61.146 ppb	59.963 ppb	83.629 %	61.840 ppb	62.459 ppb	82.807 %	57.331 ppb
Concentration per Run 3	65.041 ppb	70.267 ppb	64.679 ppb	64.637 ppb	78.680 %	64.634 ppb	64.785 ppb	81.702 %	57.847 ppb
Recovery Percentage 1	104.250 %	106.015 %	103.294 %	101.623 %		106.468 %	106.982 %		97.087 %
Concentration RSD	3.6 %	9.3 %	3.9 %	5.4 %	3.6 %	2.8 %	2.4 %	5.1 %	2.0 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	63.780 ppb	85.782 %	86.653 %	63.946 ppb	63.677 ppb
Concentration per Run 1	64.676 ppb	83.340 %	85.666 %	64.059 ppb	63.497 ppb
Concentration per Run 2	61.111 ppb	89.299 %	90.061 %	60.605 ppb	60.791 ppb
Concentration per Run 3	65.553 ppb	84.707 %	84.234 %	67.174 ppb	66.743 ppb
Recovery Percentage 1	106.300 %			106.577 %	106.128 %
Concentration RSD	3.7 %	3.6 %	3.5 %	5.1 %	4.7 %

Alpha ICPMSQ Data with SRD

3/5/2024 4:47:09 PM

Analysis index:	119	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	CCB	Rack	0		
Analysis started at:	3/5/2024 3:22:49 PM	Vial	10		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	71.006 %	82.666 %	0.010 ppb	-0.516 ppb	0.090 ppb	-0.223 ppb	-0.366 ppb	1.694 ppb	74.941 %
Concentration per Run 1	72.069 %	77.486 %	0.006 ppb	0.247 ppb	-0.029 ppb	-0.129 ppb	-1.886 ppb	2.584 ppb	75.175 %
Concentration per Run 2	70.738 %	84.737 %	0.008 ppb	-0.205 ppb	0.154 ppb	-0.268 ppb	4.160 ppb	-2.446 ppb	74.799 %
Concentration per Run 3	70.210 %	85.773 %	0.015 ppb	-1.590 ppb	0.144 ppb	-0.272 ppb	-3.371 ppb	4.945 ppb	74.850 %
Recovery Percentage 1			1.920 %	-0.516 %	0.129 %	-2.231 %	-0.366 %	1.694 %	
Concentration RSD	1.3 %	5.5 %	47.9 %	185.5 %	114.5 %	36.4 %	1,091.1 %	222.8 %	0.3 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.009 ppb	0.002 ppb	-0.006 ppb	14.684 ppb	0.001 ppb	0.026 ppb	0.047 ppb	0.133 ppb	82.581 %
Concentration per Run 1	-0.014 ppb	-0.006 ppb	0.026 ppb	14.207 ppb	0.002 ppb	0.066 ppb	0.044 ppb	0.081 ppb	79.357 %
Concentration per Run 2	0.010 ppb	0.002 ppb	-0.008 ppb	14.119 ppb	0.000 ppb	-0.004 ppb	0.035 ppb	0.175 ppb	83.969 %
Concentration per Run 3	-0.023 ppb	0.010 ppb	-0.037 ppb	15.725 ppb	0.000 ppb	0.016 ppb	0.061 ppb	0.143 ppb	84.418 %
Recovery Percentage 1	-0.182 %	0.201 %	-0.636 %	29.367 %	0.101 %	1.314 %	4.666 %	2.658 %	
Concentration RSD	185.9 %	410.6 %	495.6 %	6.1 %	259.9 %	137.4 %	28.1 %	35.7 %	3.4 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.127 ppb	0.284 ppb	-0.002 ppb	0.735 ppb	83.522 %	0.003 ppb	0.005 ppb	82.973 %	0.657 ppb
Concentration per Run 1	0.149 ppb	0.251 ppb	-0.002 ppb	0.702 ppb	82.954 %	0.003 ppb	0.006 ppb	81.717 %	0.652 ppb
Concentration per Run 2	0.130 ppb	0.299 ppb	-0.001 ppb	0.720 ppb	84.038 %	0.003 ppb	0.005 ppb	82.803 %	0.629 ppb
Concentration per Run 3	0.101 ppb	0.304 ppb	-0.002 ppb	0.783 ppb	83.574 %	0.003 ppb	0.005 ppb	84.398 %	0.689 ppb
Recovery Percentage 1	25.325 %	5.688 %	-0.015 %	36.760 %		0.700 %	2.740 %		16.420 %
Concentration RSD	19.0 %	10.3 %	52.7 %	5.8 %	0.7 %	7.0 %	1.2 %	1.6 %	4.6 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	0.003 ppb	89.269 %	89.351 %	0.393 ppb	0.088 ppb
Concentration per Run 1	-0.002 ppb	87.452 %	85.017 %	0.365 ppb	0.098 ppb
Concentration per Run 2	0.003 ppb	90.164 %	90.966 %	0.450 ppb	0.087 ppb
Concentration per Run 3	0.009 ppb	90.192 %	92.071 %	0.363 ppb	0.079 ppb
Recovery Percentage 1	0.649 %			39.258 %	8.796 %
Concentration RSD	174.7 %	1.8 %	4.2 %	12.7 %	10.7 %

Alpha ICPMSQ Data with SRD

3/5/2024 4:47:09 PM

Analysis index:	120	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	WG1890905-1 6020TL	Rack	2		
Analysis started at:	3/5/2024 3:35:35 PM	Vial	11		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	77.904 %	84.254 %	0.006 ppb	1.384 ppb	0.874 ppb	1.139 ppb	-2.428 ppb	5.278 ppb	77.806 %
Concentration per Run 1	78.753 %	81.008 %	0.006 ppb	1.484 ppb	0.430 ppb	1.349 ppb	-1.820 ppb	5.031 ppb	78.019 %
Concentration per Run 2	77.790 %	86.602 %	0.002 ppb	2.033 ppb	0.365 ppb	0.708 ppb	-0.607 ppb	1.732 ppb	76.339 %
Concentration per Run 3	77.169 %	85.152 %	0.010 ppb	0.635 ppb	1.828 ppb	1.361 ppb	-4.858 ppb	9.071 ppb	79.062 %
Concentration RSD	1.0 %	3.4 %	61.6 %	50.9 %	94.5 %	32.8 %	90.2 %	69.6 %	1.8 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.020 ppb	0.124 ppb	0.039 ppb	3.072 ppb	-0.002 ppb	0.006 ppb	0.058 ppb	0.254 ppb	87.477 %
Concentration per Run 1	-0.015 ppb	0.118 ppb	0.050 ppb	2.437 ppb	-0.002 ppb	0.029 ppb	0.064 ppb	0.239 ppb	86.596 %
Concentration per Run 2	-0.023 ppb	0.123 ppb	0.062 ppb	2.756 ppb	0.000 ppb	-0.006 ppb	0.070 ppb	0.268 ppb	87.963 %
Concentration per Run 3	-0.023 ppb	0.132 ppb	0.006 ppb	4.023 ppb	-0.002 ppb	-0.006 ppb	0.041 ppb	0.255 ppb	87.872 %
Concentration RSD	23.2 %	5.7 %	75.8 %	27.3 %	69.0 %	364.6 %	26.4 %	5.9 %	0.9 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.054 ppb	0.040 ppb	0.001 ppb	0.045 ppb	87.174 %	0.001 ppb	0.000 ppb	87.167 %	0.119 ppb
Concentration per Run 1	0.028 ppb	-0.009 ppb	0.000 ppb	0.040 ppb	84.969 %	0.001 ppb	0.000 ppb	86.573 %	0.110 ppb
Concentration per Run 2	0.080 ppb	0.089 ppb	0.004 ppb	0.023 ppb	87.969 %	0.001 ppb	0.000 ppb	87.323 %	0.115 ppb
Concentration per Run 3	0.054 ppb	0.040 ppb	0.001 ppb	0.072 ppb	88.582 %	0.000 ppb	0.001 ppb	87.604 %	0.131 ppb
Concentration RSD	48.7 %	121.6 %	139.6 %	55.7 %	2.2 %	45.3 %	173.2 %	0.6 %	9.2 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	0.007 ppb	91.815 %	92.441 %	0.058 ppb	0.049 ppb
Concentration per Run 1	0.015 ppb	88.100 %	90.001 %	0.043 ppb	0.053 ppb
Concentration per Run 2	0.003 ppb	92.207 %	94.216 %	0.065 ppb	0.048 ppb
Concentration per Run 3	0.003 ppb	95.139 %	93.106 %	0.066 ppb	0.046 ppb
Concentration RSD	102.7 %	3.9 %	2.4 %	22.5 %	6.7 %

Alpha ICPMSQ Data with SRD

3/5/2024 4:47:09 PM

Analysis index:	121	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	WG1890905-2d20 6020TL	Rack	2		
Analysis started at:	3/5/2024 3:40:14 PM	Vial	12		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	76.393 %	89.295 %	2.661 ppb	507.494 ppb	499.211 ppb	102.730 ppb	513.334 ppb	448.430 ppb	78.502 %
Concentration per Run 1	78.782 %	85.359 %	2.637 ppb	531.842 ppb	527.820 ppb	103.406 ppb	555.441 ppb	421.424 ppb	80.203 %
Concentration per Run 2	75.142 %	89.088 %	2.627 ppb	503.237 ppb	489.912 ppb	100.617 ppb	487.578 ppb	493.574 ppb	77.374 %
Concentration per Run 3	75.255 %	93.439 %	2.719 ppb	487.403 ppb	479.903 ppb	104.168 ppb	496.983 ppb	430.291 ppb	77.928 %
Concentration RSD	2.7 %	4.5 %	1.9 %	4.4 %	5.1 %	1.8 %	7.2 %	8.8 %	1.9 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	25.455 ppb	10.299 ppb	25.829 ppb	56.544 ppb	25.902 ppb	26.419 ppb	13.336 ppb	25.813 ppb	87.506 %
Concentration per Run 1	26.136 ppb	10.683 ppb	26.040 ppb	56.952 ppb	26.666 ppb	27.330 ppb	13.953 ppb	26.378 ppb	85.977 %
Concentration per Run 2	26.037 ppb	10.257 ppb	26.219 ppb	58.729 ppb	26.143 ppb	26.867 ppb	13.134 ppb	26.083 ppb	87.001 %
Concentration per Run 3	24.191 ppb	9.957 ppb	25.227 ppb	53.949 ppb	24.898 ppb	25.060 ppb	12.921 ppb	24.979 ppb	89.539 %
Concentration RSD	4.3 %	3.5 %	2.0 %	4.3 %	3.5 %	4.5 %	4.1 %	2.9 %	2.1 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	6.370 ppb	6.259 ppb	50.477 ppb	48.432 ppb	87.927 %	2.573 ppb	2.821 ppb	88.300 %	22.019 ppb
Concentration per Run 1	6.883 ppb	6.260 ppb	51.337 ppb	48.066 ppb	88.099 %	2.574 ppb	2.866 ppb	86.731 %	22.094 ppb
Concentration per Run 2	6.181 ppb	6.205 ppb	50.514 ppb	49.183 ppb	88.207 %	2.566 ppb	2.770 ppb	89.736 %	21.862 ppb
Concentration per Run 3	6.046 ppb	6.312 ppb	49.582 ppb	48.048 ppb	87.474 %	2.579 ppb	2.828 ppb	88.434 %	22.101 ppb
Concentration RSD	7.1 %	0.9 %	1.7 %	1.3 %	0.4 %	0.3 %	1.7 %	1.7 %	0.6 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	104.079 ppb	93.194 %	93.816 %	5.853 ppb	27.656 ppb
Concentration per Run 1	105.640 ppb	90.992 %	92.897 %	5.803 ppb	27.778 ppb
Concentration per Run 2	101.309 ppb	93.949 %	93.567 %	5.878 ppb	27.587 ppb
Concentration per Run 3	105.289 ppb	94.642 %	94.983 %	5.877 ppb	27.604 ppb
Concentration RSD	2.3 %	2.1 %	1.1 %	0.7 %	0.4 %

Alpha ICPMSQ Data with SRD

3/5/2024 4:47:09 PM

Analysis index:	122	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	WG1890905-3d20 6020TL	Rack	2		
Analysis started at:	3/5/2024 3:44:54 PM	Vial	14		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	66.389 %	79.351 %	2.666 ppb	428,229.164 ppb	1,595.936 ppb	651.400 ppb	1,963.023 ppb	5,753.856 ppb	75.295 %
Concentration per Run 1	67.421 %	81.422 %	2.645 ppb	434,504.481 ppb	1,615.070 ppb	679.739 ppb	2,034.348 ppb	6,070.940 ppb	75.806 %
Concentration per Run 2	66.142 %	78.936 %	2.638 ppb	420,963.158 ppb	1,585.685 ppb	624.365 ppb	1,840.456 ppb	5,583.755 ppb	74.812 %
Concentration per Run 3	65.605 %	77.693 %	2.715 ppb	429,219.854 ppb	1,587.053 ppb	650.096 ppb	2,014.266 ppb	5,606.872 ppb	75.266 %
Concentration RSD	1.4 %	2.4 %	1.6 %	1.6 %	1.0 %	4.3 %	5.4 %	4.8 %	0.7 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	26.272 ppb	12.193 ppb	66.236 ppb	3,810.126 ppb	24.561 ppb	33.919 ppb	16.417 ppb	317.560 ppb	80.115 %
Concentration per Run 1	25.712 ppb	12.214 ppb	64.971 ppb	3,773.748 ppb	23.976 ppb	33.530 ppb	16.209 ppb	311.474 ppb	85.912 %
Concentration per Run 2	26.193 ppb	12.059 ppb	65.984 ppb	3,732.616 ppb	24.500 ppb	33.289 ppb	16.008 ppb	313.561 ppb	79.032 %
Concentration per Run 3	26.911 ppb	12.307 ppb	67.754 ppb	3,924.014 ppb	25.207 ppb	34.937 ppb	17.033 ppb	327.646 ppb	75.402 %
Concentration RSD	2.3 %	1.0 %	2.1 %	2.6 %	2.5 %	2.6 %	3.3 %	2.8 %	6.7 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	6.223 ppb	0.961 ppb	96.201 ppb	51.768 ppb	73.838 %	2.384 ppb	2.933 ppb	79.169 %	24.694 ppb
Concentration per Run 1	6.049 ppb	1.362 ppb	97.145 ppb	50.215 ppb	76.679 %	2.341 ppb	2.887 ppb	85.337 %	23.679 ppb
Concentration per Run 2	6.189 ppb	0.793 ppb	94.452 ppb	51.848 ppb	73.275 %	2.412 ppb	3.066 ppb	76.454 %	25.740 ppb
Concentration per Run 3	6.431 ppb	0.728 ppb	97.007 ppb	53.241 ppb	71.559 %	2.400 ppb	2.845 ppb	75.717 %	24.663 ppb
Concentration RSD	3.1 %	36.3 %	1.6 %	2.9 %	3.5 %	1.6 %	4.0 %	6.8 %	4.2 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	135.318 ppb	86.092 %	88.929 %	5.268 ppb	35.425 ppb
Concentration per Run 1	131.171 ppb	89.182 %	92.006 %	5.078 ppb	34.663 ppb
Concentration per Run 2	139.293 ppb	85.077 %	88.126 %	5.305 ppb	35.776 ppb
Concentration per Run 3	135.490 ppb	84.017 %	86.654 %	5.420 ppb	35.835 ppb
Concentration RSD	3.0 %	3.2 %	3.1 %	3.3 %	1.9 %

Alpha ICPMSQ Data with SRD

3/5/2024 4:47:09 PM

Analysis index:	123	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	WG1890905-5d10 6020TL	Rack	2		
Analysis started at:	3/5/2024 3:49:33 PM	Vial	16		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	63.566 %	71.547 %	50.094 ppb	863,994.101 ppb	7,128.399 ppb	1,190.187 ppb	7,565.769 ppb	14,797.110 ppb	71.879 %
Concentration per Run 1	65.115 %	83.909 %	49.686 ppb	802,988.010 ppb	6,606.556 ppb	1,123.557 ppb	7,402.144 ppb	14,232.959 ppb	72.000 %
Concentration per Run 2	63.392 %	62.362 %	49.971 ppb	944,585.763 ppb	7,784.415 ppb	1,305.161 ppb	7,959.286 ppb	15,990.787 ppb	72.027 %
Concentration per Run 3	62.190 %	68.370 %	50.625 ppb	844,408.531 ppb	6,994.227 ppb	1,141.843 ppb	7,335.877 ppb	14,167.584 ppb	71.612 %
Concentration RSD	2.3 %	15.5 %	1.0 %	8.4 %	8.4 %	8.4 %	4.5 %	7.0 %	0.3 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	49.855 ppb	48.410 ppb	123.499 ppb	11,964.049 ppb	48.110 ppb	64.995 ppb	52.409 ppb	615.890 ppb	74.342 %
Concentration per Run 1	48.289 ppb	46.942 ppb	125.933 ppb	11,959.490 ppb	47.247 ppb	64.030 ppb	52.611 ppb	610.552 ppb	77.246 %
Concentration per Run 2	52.501 ppb	50.744 ppb	124.794 ppb	12,456.359 ppb	50.530 ppb	67.954 ppb	55.160 ppb	644.569 ppb	70.159 %
Concentration per Run 3	48.777 ppb	47.544 ppb	119.771 ppb	11,476.299 ppb	46.553 ppb	63.001 ppb	49.456 ppb	592.549 ppb	75.623 %
Concentration RSD	4.6 %	4.2 %	2.7 %	4.1 %	4.4 %	4.0 %	5.5 %	4.3 %	5.0 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	47.858 ppb	42.996 ppb	145.730 ppb	54.502 ppb	67.158 %	0.536 ppb	44.494 ppb	72.115 %	49.794 ppb
Concentration per Run 1	48.711 ppb	43.494 ppb	152.090 ppb	53.763 ppb	69.594 %	0.524 ppb	44.525 ppb	75.962 %	49.624 ppb
Concentration per Run 2	49.744 ppb	46.307 ppb	144.609 ppb	55.051 ppb	67.019 %	0.525 ppb	44.442 ppb	70.686 %	49.489 ppb
Concentration per Run 3	45.117 ppb	39.187 ppb	140.490 ppb	54.692 ppb	64.861 %	0.558 ppb	44.514 ppb	69.697 %	50.269 ppb
Concentration RSD	5.1 %	8.3 %	4.0 %	1.2 %	3.5 %	3.6 %	0.1 %	4.7 %	0.8 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	114.783 ppb	79.957 %	84.060 %	42.860 ppb	65.603 ppb
Concentration per Run 1	114.702 ppb	83.566 %	87.177 %	42.604 ppb	65.167 ppb
Concentration per Run 2	114.534 ppb	78.555 %	82.236 %	43.402 ppb	67.112 ppb
Concentration per Run 3	115.114 ppb	77.750 %	82.767 %	42.572 ppb	64.530 ppb
Concentration RSD	0.3 %	3.9 %	3.2 %	1.1 %	2.0 %

Alpha ICPMSQ Data with SRD

3/5/2024 4:47:09 PM

Analysis index:	124	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	WG1890905-4d10 6020TL	Rack	2		
Analysis started at:	3/5/2024 3:54:12 PM	Vial	15		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	64.988 %	61.602 %	0.115 ppb	922,108.413 ppb	2,441.202 ppb	1,230.616 ppb	3,170.973 ppb	11,286.951 ppb	69.743 %
Concentration per Run 1	65.919 %	64.019 %	0.120 ppb	933,780.617 ppb	2,480.097 ppb	1,232.974 ppb	3,167.273 ppb	11,127.022 ppb	70.873 %
Concentration per Run 2	65.326 %	60.911 %	0.105 ppb	921,756.020 ppb	2,427.823 ppb	1,227.400 ppb	3,077.377 ppb	11,149.772 ppb	70.255 %
Concentration per Run 3	63.718 %	59.875 %	0.121 ppb	910,788.602 ppb	2,415.686 ppb	1,231.474 ppb	3,268.269 ppb	11,584.059 ppb	68.101 %
Concentration RSD	1.8 %	3.5 %	8.1 %	1.2 %	1.4 %	0.2 %	3.0 %	2.3 %	2.1 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	6.618 ppb	7.004 ppb	90.460 ppb	8,114.041 ppb	2.218 ppb	22.301 ppb	9.977 ppb	611.694 ppb	66.909 %
Concentration per Run 1	6.302 ppb	7.240 ppb	90.616 ppb	8,412.926 ppb	2.382 ppb	22.009 ppb	10.405 ppb	639.514 ppb	66.375 %
Concentration per Run 2	7.053 ppb	6.885 ppb	88.378 ppb	7,878.500 ppb	2.107 ppb	22.518 ppb	9.809 ppb	597.350 ppb	67.742 %
Concentration per Run 3	6.500 ppb	6.886 ppb	92.386 ppb	8,050.698 ppb	2.166 ppb	22.378 ppb	9.717 ppb	598.217 ppb	66.610 %
Concentration RSD	5.9 %	2.9 %	2.2 %	3.4 %	6.5 %	1.2 %	3.7 %	3.9 %	1.1 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.629 ppb	0.749 ppb	94.885 ppb	4.242 ppb	63.350 %	0.016 ppb	0.732 ppb	67.392 %	0.636 ppb
Concentration per Run 1	0.599 ppb	0.734 ppb	96.686 ppb	4.249 ppb	63.042 %	0.015 ppb	0.746 ppb	65.422 %	0.627 ppb
Concentration per Run 2	0.595 ppb	0.821 ppb	94.470 ppb	4.192 ppb	62.502 %	0.015 ppb	0.693 ppb	67.845 %	0.605 ppb
Concentration per Run 3	0.693 ppb	0.692 ppb	93.499 ppb	4.285 ppb	64.507 %	0.017 ppb	0.756 ppb	68.910 %	0.677 ppb
Concentration RSD	8.8 %	8.8 %	1.7 %	1.1 %	1.6 %	8.3 %	4.7 %	2.7 %	5.8 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	64.128 ppb	76.098 %	78.204 %	0.158 ppb	22.939 ppb
Concentration per Run 1	65.599 ppb	74.926 %	77.651 %	0.141 ppb	23.514 ppb
Concentration per Run 2	64.020 ppb	76.217 %	76.642 %	0.186 ppb	23.343 ppb
Concentration per Run 3	62.764 ppb	77.150 %	80.320 %	0.148 ppb	21.962 ppb
Concentration RSD	2.2 %	1.5 %	2.4 %	15.4 %	3.7 %

Alpha ICPMSQ Data with SRD

3/5/2024 4:47:09 PM

Analysis index:	125	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	I2410566-01d10 6020TL	Rack	2		
Analysis started at:	3/5/2024 3:58:51 PM	Vial	13		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	61.571 %	62.154 %	0.110 ppb	883,786.779 ppb	2,327.397 ppb	1,195.898 ppb	3,209.939 ppb	11,208.842 ppb	62.924 %
Concentration per Run 1	61.693 %	62.776 %	0.112 ppb	863,557.385 ppb	2,267.754 ppb	1,187.144 ppb	3,181.727 ppb	10,841.008 ppb	63.126 %
Concentration per Run 2	60.576 %	62.983 %	0.120 ppb	864,484.510 ppb	2,255.016 ppb	1,136.087 ppb	3,082.942 ppb	10,933.418 ppb	62.068 %
Concentration per Run 3	62.444 %	60.704 %	0.099 ppb	923,318.443 ppb	2,459.422 ppb	1,264.464 ppb	3,365.147 ppb	11,852.101 ppb	63.579 %
Concentration RSD	1.5 %	2.0 %	9.9 %	3.9 %	4.9 %	5.4 %	4.5 %	5.0 %	1.2 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	6.165 ppb	6.621 ppb	90.530 ppb	7,882.571 ppb	2.154 ppb	20.710 ppb	8.170 ppb	598.711 ppb	66.130 %
Concentration per Run 1	6.391 ppb	6.659 ppb	87.483 ppb	7,870.717 ppb	2.071 ppb	21.423 ppb	8.412 ppb	605.760 ppb	65.151 %
Concentration per Run 2	5.829 ppb	6.355 ppb	88.715 ppb	7,617.180 ppb	2.235 ppb	20.149 ppb	7.781 ppb	586.433 ppb	66.902 %
Concentration per Run 3	6.276 ppb	6.849 ppb	95.394 ppb	8,159.817 ppb	2.154 ppb	20.559 ppb	8.315 ppb	603.939 ppb	66.336 %
Concentration RSD	4.8 %	3.8 %	4.7 %	3.4 %	3.8 %	3.1 %	4.2 %	1.8 %	1.4 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.511 ppb	0.191 ppb	97.765 ppb	3.133 ppb	61.804 %	0.016 ppb	0.716 ppb	67.775 %	0.456 ppb
Concentration per Run 1	0.374 ppb	-0.027 ppb	95.583 ppb	3.051 ppb	61.354 %	0.016 ppb	0.756 ppb	64.452 %	0.445 ppb
Concentration per Run 2	0.490 ppb	0.222 ppb	93.473 ppb	3.075 ppb	62.127 %	0.020 ppb	0.721 ppb	66.962 %	0.433 ppb
Concentration per Run 3	0.669 ppb	0.379 ppb	104.238 ppb	3.273 ppb	61.930 %	0.013 ppb	0.671 ppb	71.912 %	0.489 ppb
Concentration RSD	29.0 %	107.0 %	5.8 %	3.9 %	0.6 %	21.3 %	5.9 %	5.6 %	6.4 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	66.491 ppb	73.799 %	78.278 %	0.066 ppb	21.180 ppb
Concentration per Run 1	67.114 ppb	71.427 %	75.599 %	0.048 ppb	21.865 ppb
Concentration per Run 2	63.582 ppb	74.022 %	78.508 %	0.073 ppb	21.033 ppb
Concentration per Run 3	68.776 ppb	75.948 %	80.728 %	0.078 ppb	20.642 ppb
Concentration RSD	4.0 %	3.1 %	3.3 %	23.8 %	3.0 %

Alpha ICPMSQ Data with SRD

3/5/2024 4:47:09 PM

Analysis index: 126
Analysis label: I2410566-02d10 6020TL
Analysis started at: 3/5/2024 4:03:32 PM
User name ALPHALAB\Metals-Instrument
Rack 2
Vial 18
Comment <Comment>

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	73.422 %	65.124 %	0.064 ppb	40,583.716 ppb	2,794.124 ppb	390.777 ppb	967.785 ppb	16,018.503 ppb	72.478 %
Concentration per Run 1	73.549 %	61.533 %	0.061 ppb	43,299.566 ppb	2,947.675 ppb	400.894 ppb	974.276 ppb	16,434.519 ppb	72.083 %
Concentration per Run 2	73.181 %	67.956 %	0.070 ppb	37,791.858 ppb	2,675.365 ppb	376.883 ppb	957.813 ppb	15,582.303 ppb	72.286 %
Concentration per Run 3	73.537 %	65.884 %	0.059 ppb	40,659.725 ppb	2,759.332 ppb	394.554 ppb	971.268 ppb	16,038.688 ppb	73.066 %
Concentration RSD	0.3 %	5.0 %	9.1 %	6.8 %	5.0 %	3.2 %	0.9 %	2.7 %	0.7 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	1.623 ppb	0.449 ppb	518.131 ppb	5,386.729 ppb	3.491 ppb	0.950 ppb	0.785 ppb	11.763 ppb	73.028 %
Concentration per Run 1	1.738 ppb	0.489 ppb	536.211 ppb	5,627.688 ppb	3.658 ppb	0.952 ppb	0.872 ppb	12.047 ppb	69.411 %
Concentration per Run 2	1.639 ppb	0.432 ppb	491.303 ppb	5,079.063 ppb	3.312 ppb	1.061 ppb	0.688 ppb	11.032 ppb	73.137 %
Concentration per Run 3	1.493 ppb	0.426 ppb	526.879 ppb	5,453.437 ppb	3.504 ppb	0.839 ppb	0.796 ppb	12.211 ppb	76.537 %
Concentration RSD	7.6 %	7.8 %	4.6 %	5.2 %	5.0 %	11.7 %	11.7 %	5.4 %	4.9 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.893 ppb	0.525 ppb	117.908 ppb	0.339 ppb	70.832 %	0.009 ppb	0.052 ppb	74.646 %	0.103 ppb
Concentration per Run 1	0.914 ppb	0.643 ppb	119.342 ppb	0.321 ppb	68.778 %	0.010 ppb	0.045 ppb	70.919 %	0.103 ppb
Concentration per Run 2	0.894 ppb	0.386 ppb	112.644 ppb	0.302 ppb	71.291 %	0.006 ppb	0.052 ppb	72.350 %	0.108 ppb
Concentration per Run 3	0.871 ppb	0.547 ppb	121.739 ppb	0.395 ppb	72.429 %	0.010 ppb	0.057 ppb	80.668 %	0.097 ppb
Concentration RSD	2.4 %	24.7 %	4.0 %	14.5 %	2.6 %	27.1 %	11.3 %	7.1 %	5.6 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	74.262 ppb	79.715 %	82.913 %	0.047 ppb	3.093 ppb
Concentration per Run 1	76.013 ppb	76.865 %	78.102 %	0.033 ppb	3.283 ppb
Concentration per Run 2	73.319 ppb	79.282 %	83.923 %	0.053 ppb	3.005 ppb
Concentration per Run 3	73.454 ppb	82.999 %	86.714 %	0.055 ppb	2.992 ppb
Concentration RSD	2.0 %	3.9 %	5.3 %	25.6 %	5.3 %

Alpha ICPMSQ Data with SRD

3/5/2024 4:47:09 PM

Analysis index:	127	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	WG1890905-6d50 6020TL	Rack	2		
Analysis started at:	3/5/2024 4:08:11 PM	Vial	17		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	70.944 %	63.190 %	0.030 ppb	182,246.154 ppb	473.188 ppb	253.876 ppb	659.246 ppb	2,540.004 ppb	71.681 %
Concentration per Run 1	71.230 %	61.947 %	0.031 ppb	182,363.182 ppb	452.099 ppb	253.227 ppb	611.165 ppb	2,524.356 ppb	71.019 %
Concentration per Run 2	70.424 %	65.677 %	0.026 ppb	174,847.223 ppb	459.454 ppb	234.438 ppb	649.437 ppb	2,445.652 ppb	71.717 %
Concentration per Run 3	71.178 %	61.947 %	0.035 ppb	189,528.057 ppb	508.011 ppb	273.964 ppb	717.135 ppb	2,650.004 ppb	72.308 %
Concentration RSD	0.6 %	3.4 %	15.4 %	4.0 %	6.4 %	7.8 %	8.1 %	4.1 %	0.9 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	1.347 ppb	1.622 ppb	21.109 ppb	1,672.616 ppb	0.408 ppb	4.415 ppb	2.115 ppb	129.214 ppb	71.106 %
Concentration per Run 1	1.249 ppb	1.748 ppb	20.274 ppb	1,617.972 ppb	0.378 ppb	4.271 ppb	2.016 ppb	129.028 ppb	71.494 %
Concentration per Run 2	1.510 ppb	1.539 ppb	20.798 ppb	1,692.744 ppb	0.425 ppb	4.735 ppb	2.188 ppb	128.134 ppb	68.303 %
Concentration per Run 3	1.284 ppb	1.579 ppb	22.255 ppb	1,707.134 ppb	0.422 ppb	4.238 ppb	2.141 ppb	130.481 ppb	73.520 %
Concentration RSD	10.5 %	6.8 %	4.9 %	2.9 %	6.4 %	6.3 %	4.2 %	0.9 %	3.7 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.099 ppb	0.099 ppb	19.327 ppb	0.651 ppb	68.771 %	0.005 ppb	0.161 ppb	75.521 %	0.122 ppb
Concentration per Run 1	0.104 ppb	0.036 ppb	18.513 ppb	0.605 ppb	68.950 %	0.006 ppb	0.170 ppb	75.027 %	0.112 ppb
Concentration per Run 2	0.129 ppb	0.104 ppb	19.578 ppb	0.615 ppb	68.653 %	0.005 ppb	0.165 ppb	74.346 %	0.117 ppb
Concentration per Run 3	0.064 ppb	0.157 ppb	19.892 ppb	0.732 ppb	68.709 %	0.004 ppb	0.148 ppb	77.189 %	0.136 ppb
Concentration RSD	32.9 %	61.3 %	3.7 %	10.9 %	0.2 %	24.5 %	7.0 %	2.0 %	10.4 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	13.416 ppb	78.675 %	84.804 %	0.029 ppb	4.429 ppb
Concentration per Run 1	12.544 ppb	78.457 %	82.125 %	0.017 ppb	4.535 ppb
Concentration per Run 2	13.946 ppb	78.350 %	84.030 %	0.036 ppb	4.493 ppb
Concentration per Run 3	13.756 ppb	79.218 %	88.258 %	0.034 ppb	4.258 ppb
Concentration RSD	5.7 %	0.6 %	3.7 %	35.6 %	3.4 %

Alpha ICPMSQ Data with SRD

3/5/2024 4:47:09 PM

Analysis index: 128
Analysis label: CCV
Analysis started at: 3/5/2024 4:17:30 PM
User name ALPHALAB\Metals-Instrument
Rack 0
Vial 9
Comment <Comment>

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	79.016 %	69.613 %	60.720 ppb	6,136.889 ppb	6,407.052 ppb	62.701 ppb	6,247.299 ppb	6,240.545 ppb	85.002 %
Concentration per Run 1	79.393 %	70.649 %	60.521 ppb	5,830.691 ppb	6,098.367 ppb	56.984 ppb	6,080.937 ppb	5,967.643 ppb	84.676 %
Concentration per Run 2	79.025 %	73.342 %	60.689 ppb	6,212.472 ppb	6,491.700 ppb	65.024 ppb	6,312.184 ppb	6,259.084 ppb	85.632 %
Concentration per Run 3	78.630 %	64.848 %	60.950 ppb	6,367.503 ppb	6,631.090 ppb	66.096 ppb	6,348.777 ppb	6,494.908 ppb	84.698 %
Recovery Percentage 1			101.200 %	102.281 %	106.784 %	104.502 %	104.122 %	104.009 %	
Concentration RSD	0.5 %	6.2 %	0.4 %	4.5 %	4.3 %	7.9 %	2.3 %	4.2 %	0.6 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	63.429 ppb	63.300 ppb	62.408 ppb	5,937.943 ppb	60.056 ppb	61.335 ppb	59.989 ppb	59.385 ppb	78.209 %
Concentration per Run 1	61.226 ppb	60.737 ppb	59.176 ppb	5,738.782 ppb	58.199 ppb	59.825 ppb	58.918 ppb	57.086 ppb	80.424 %
Concentration per Run 2	64.853 ppb	63.753 ppb	64.388 ppb	6,068.262 ppb	60.402 ppb	61.105 ppb	59.600 ppb	59.867 ppb	79.445 %
Concentration per Run 3	64.210 ppb	65.409 ppb	63.661 ppb	6,006.784 ppb	61.565 ppb	63.074 ppb	61.450 ppb	61.203 ppb	74.756 %
Recovery Percentage 1	105.716 %	105.500 %	104.013 %	98.966 %	100.093 %	102.225 %	99.982 %	98.975 %	
Concentration RSD	3.1 %	3.7 %	4.5 %	3.0 %	2.8 %	2.7 %	2.2 %	3.5 %	3.9 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	60.278 ppb	64.999 ppb	63.672 ppb	57.657 ppb	76.654 %	59.378 ppb	59.524 ppb	82.719 %	55.044 ppb
Concentration per Run 1	58.232 ppb	63.569 ppb	60.774 ppb	55.337 ppb	76.706 %	60.158 ppb	59.578 ppb	80.679 %	55.284 ppb
Concentration per Run 2	61.174 ppb	67.327 ppb	67.310 ppb	58.685 ppb	77.533 %	58.882 ppb	60.104 ppb	85.821 %	56.534 ppb
Concentration per Run 3	61.429 ppb	64.101 ppb	62.933 ppb	58.949 ppb	75.725 %	59.093 ppb	58.890 ppb	81.657 %	53.313 ppb
Recovery Percentage 1	100.464 %	108.331 %	106.121 %	96.095 %		98.963 %	99.207 %		91.739 %
Concentration RSD	2.9 %	3.1 %	5.2 %	3.5 %	1.2 %	1.2 %	1.0 %	3.3 %	2.9 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	60.607 ppb	84.235 %	88.339 %	56.600 ppb	57.853 ppb
Concentration per Run 1	60.914 ppb	82.697 %	85.289 %	56.639 ppb	60.236 ppb
Concentration per Run 2	61.322 ppb	86.352 %	93.194 %	54.355 ppb	55.166 ppb
Concentration per Run 3	59.586 ppb	83.654 %	86.533 %	58.805 ppb	58.158 ppb
Recovery Percentage 1	101.012 %			94.333 %	96.422 %
Concentration RSD	1.5 %	2.3 %	4.8 %	3.9 %	4.4 %

Alpha ICPMSQ Data with SRD

3/5/2024 4:47:09 PM

Analysis index:	129	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	CCB	Rack	0		
Analysis started at:	3/5/2024 4:22:13 PM	Vial	10		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	77.687 %	72.721 %	0.013 ppb	34.055 ppb	-0.536 ppb	-0.288 ppb	7.398 ppb	-0.776 ppb	63.171 %
Concentration per Run 1	78.375 %	72.721 %	0.016 ppb	36.469 ppb	-0.263 ppb	-0.423 ppb	-2.469 ppb	1.312 ppb	62.592 %
Concentration per Run 2	78.492 %	76.864 %	0.006 ppb	32.512 ppb	-0.826 ppb	-0.543 ppb	0.403 ppb	-3.829 ppb	64.145 %
Concentration per Run 3	76.195 %	68.577 %	0.015 ppb	33.183 ppb	-0.520 ppb	0.104 ppb	24.262 ppb	0.189 ppb	62.776 %
Recovery Percentage 1			2.517 %	34.055 %	-0.766 %	-2.876 %	7.398 %	-0.776 %	
Concentration RSD	1.7 %	5.7 %	42.5 %	6.2 %	52.6 %	119.7 %	198.4 %	348.3 %	1.3 %

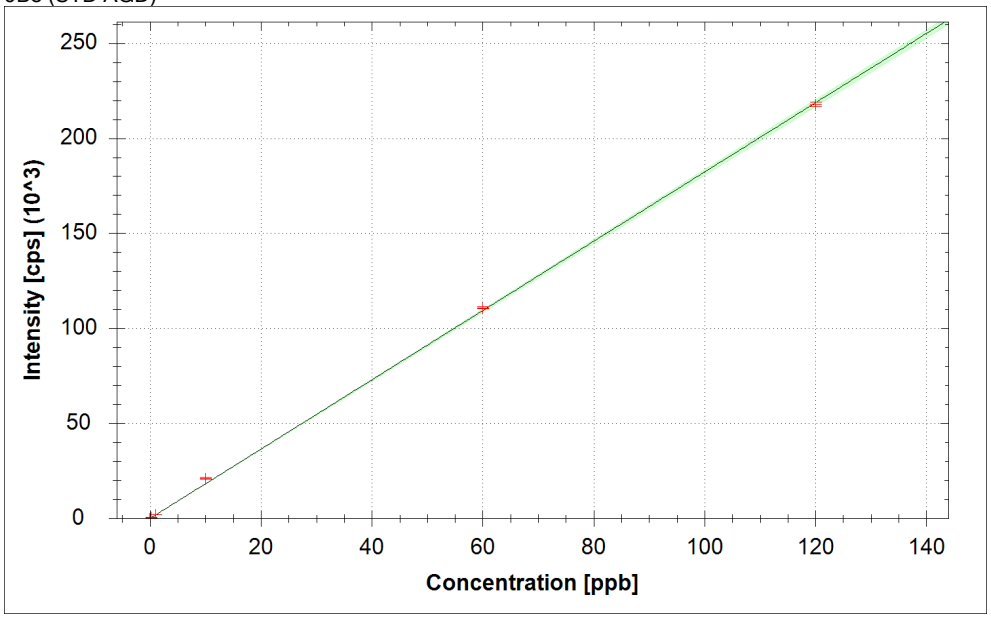
Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.000 ppb	-0.003 ppb	0.019 ppb	12.552 ppb	0.003 ppb	-0.009 ppb	0.123 ppb	0.137 ppb	74.661 %
Concentration per Run 1	0.014 ppb	-0.020 ppb	-0.021 ppb	12.559 ppb	0.009 ppb	-0.020 ppb	0.106 ppb	0.167 ppb	75.879 %
Concentration per Run 2	-0.023 ppb	0.007 ppb	0.040 ppb	10.227 ppb	0.000 ppb	-0.002 ppb	0.091 ppb	0.084 ppb	82.393 %
Concentration per Run 3	0.008 ppb	0.005 ppb	0.037 ppb	14.870 ppb	0.000 ppb	-0.005 ppb	0.170 ppb	0.158 ppb	65.710 %
Recovery Percentage 1	-0.006 %	-0.281 %	1.880 %	25.104 %	0.604 %	-0.430 %	12.271 %	2.734 %	
Concentration RSD	6,153.0 %	531.8 %	181.7 %	18.5 %	170.0 %	112.0 %	34.2 %	33.4 %	11.3 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.052 ppb	0.360 ppb	-0.001 ppb	0.869 ppb	73.865 %	0.011 ppb	0.001 ppb	78.273 %	0.604 ppb
Concentration per Run 1	0.010 ppb	0.380 ppb	0.000 ppb	0.722 ppb	77.046 %	0.012 ppb	0.000 ppb	79.063 %	0.550 ppb
Concentration per Run 2	0.063 ppb	0.199 ppb	-0.004 ppb	0.895 ppb	77.504 %	0.009 ppb	0.003 ppb	84.693 %	0.555 ppb
Concentration per Run 3	0.084 ppb	0.500 ppb	0.002 ppb	0.990 ppb	67.045 %	0.011 ppb	0.002 ppb	71.064 %	0.708 ppb
Recovery Percentage 1	10.452 %	7.192 %	-0.008 %	43.456 %		2.686 %	0.734 %		15.108 %
Concentration RSD	72.8 %	42.2 %	374.2 %	15.6 %	8.0 %	12.3 %	94.8 %	8.7 %	14.8 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	0.002 ppb	79.816 %	83.597 %	0.359 ppb	0.075 ppb
Concentration per Run 1	0.010 ppb	82.125 %	84.054 %	0.312 ppb	0.078 ppb
Concentration per Run 2	0.003 ppb	84.777 %	91.109 %	0.392 ppb	0.071 ppb
Concentration per Run 3	-0.008 ppb	72.546 %	75.628 %	0.372 ppb	0.076 ppb
Recovery Percentage 1	0.364 %			35.865 %	7.493 %
Concentration RSD	519.7 %	8.1 %	9.3 %	11.5 %	4.9 %

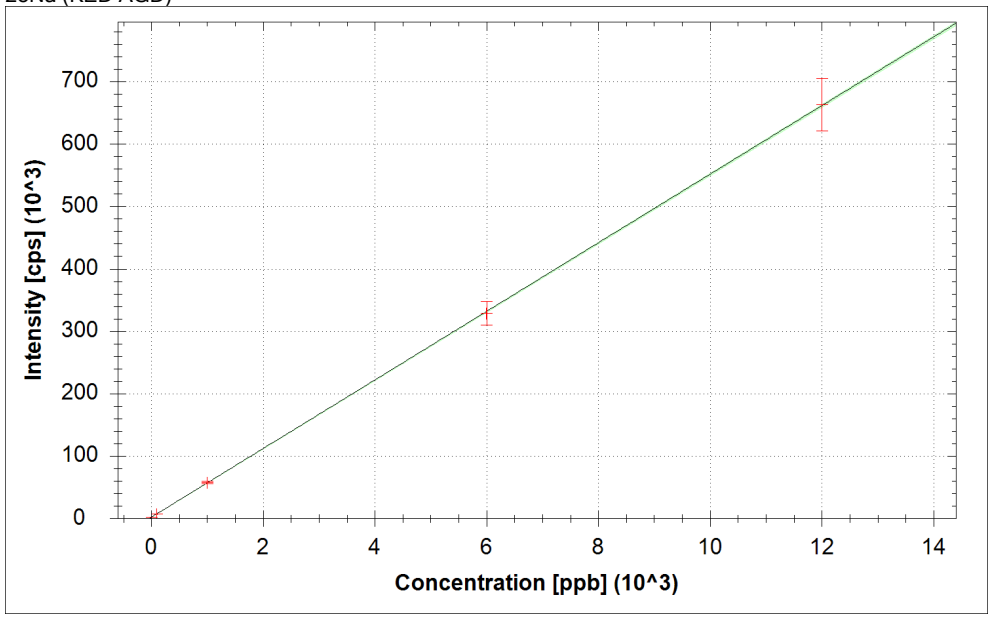
Calibration Curves:

9Be (STD AGD)



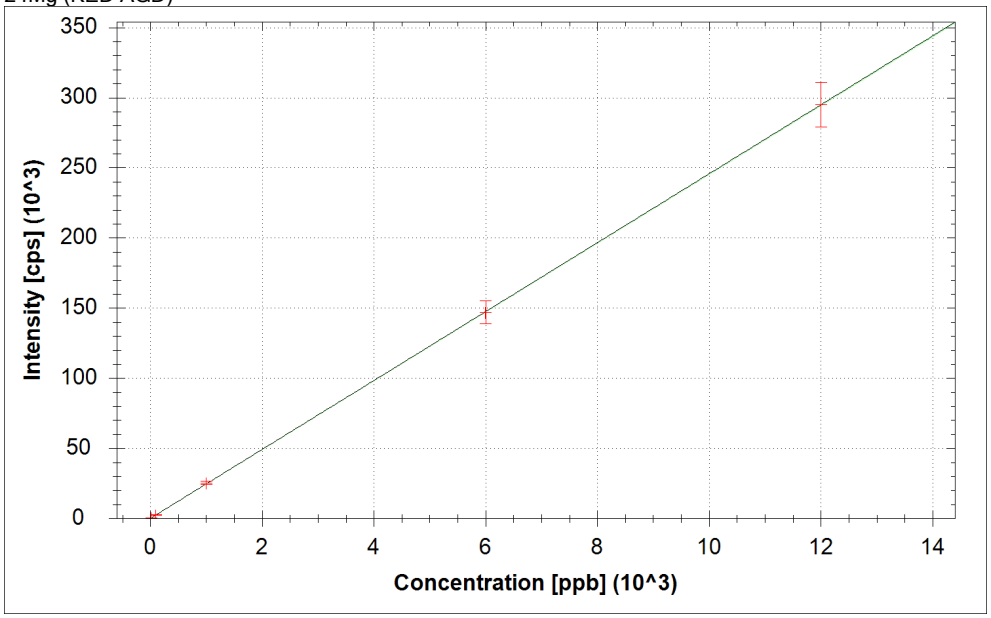
f(x) = 1821.5999*x + 42.7398
R² = 0.9997
BEC = 0.023 ppb
LoD = 0.0182 ppb

23Na (KED AGD)



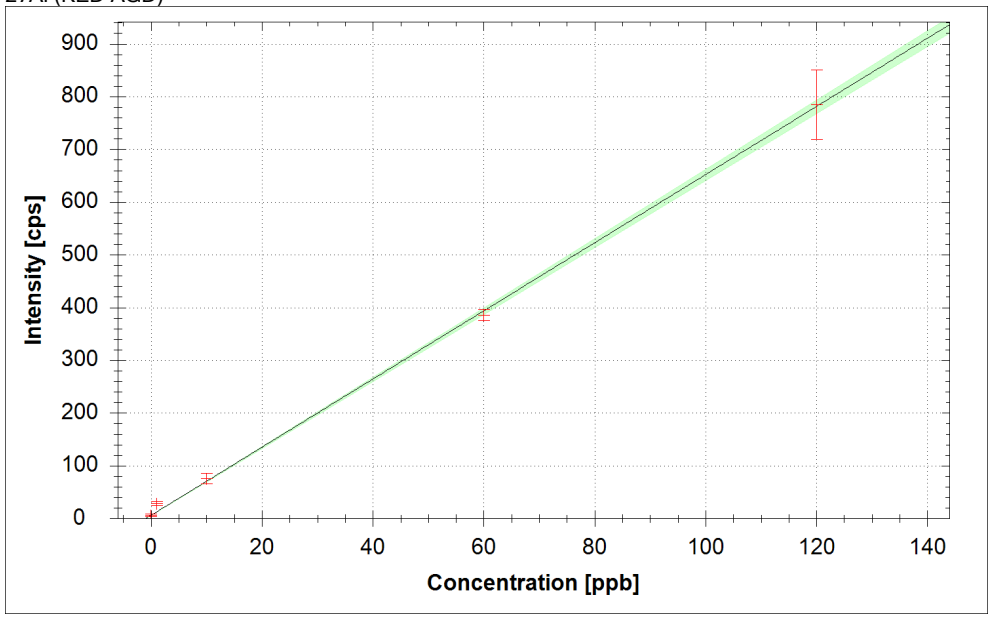
f(x) = 54.9379*x + 2050.6356
R² = 1.0000
BEC = 37.326 ppb
LoD = 10.1811 ppb

24Mg (KED AGD)



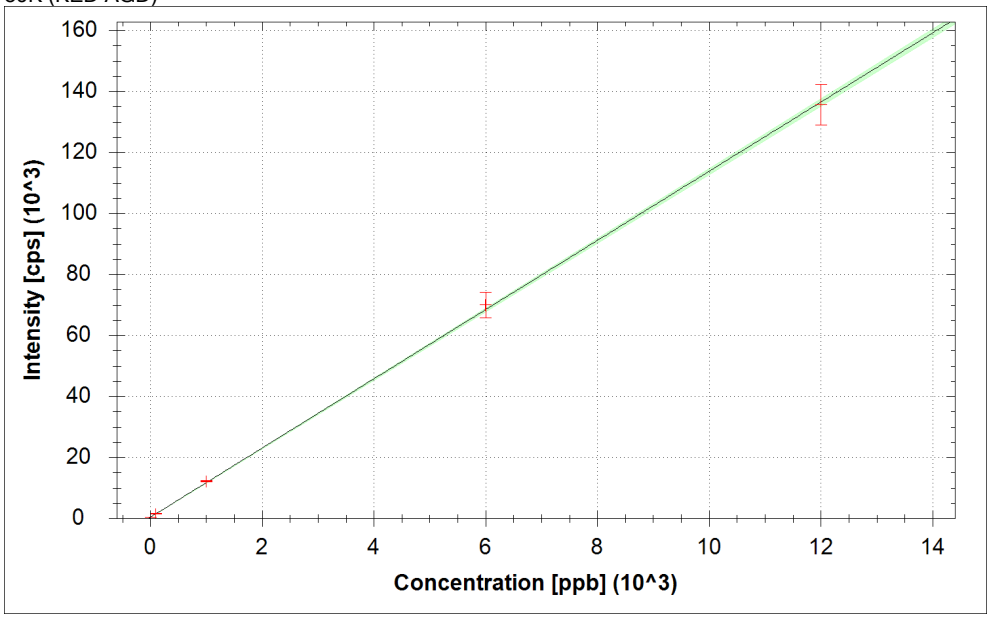
f(x) = 24.5612*x + 35.6396
R² = 1.0000
BEC = 1.451 ppb
LoD = 0.4950 ppb

27Al (KED AGD)



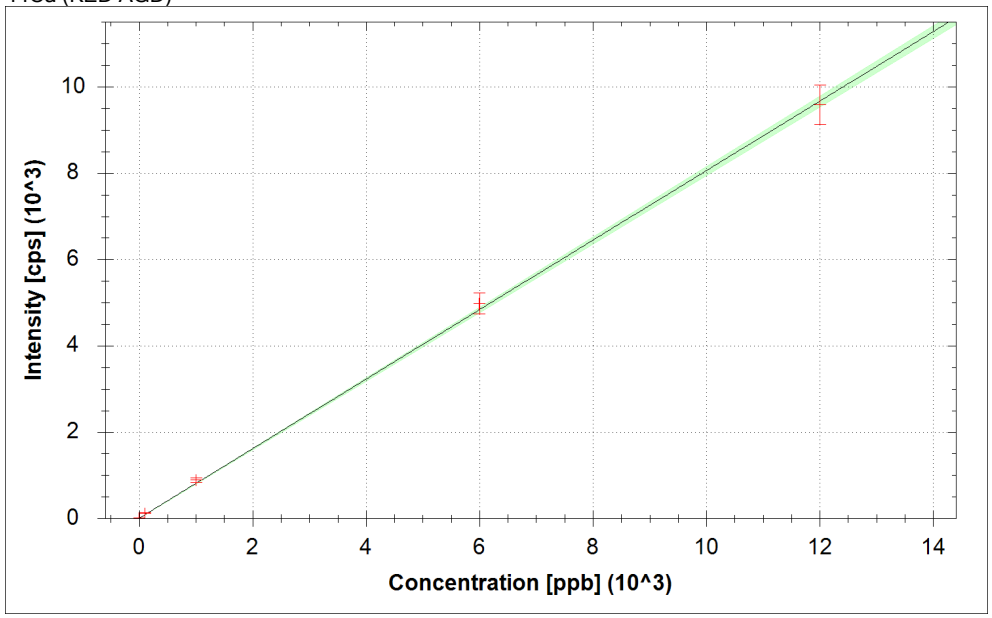
f(x) = 6.4600*x + 5.8892
R² = 0.9992
BEC = 0.912 ppb
LoD = 1.3659 ppb

39K (KED AGD)



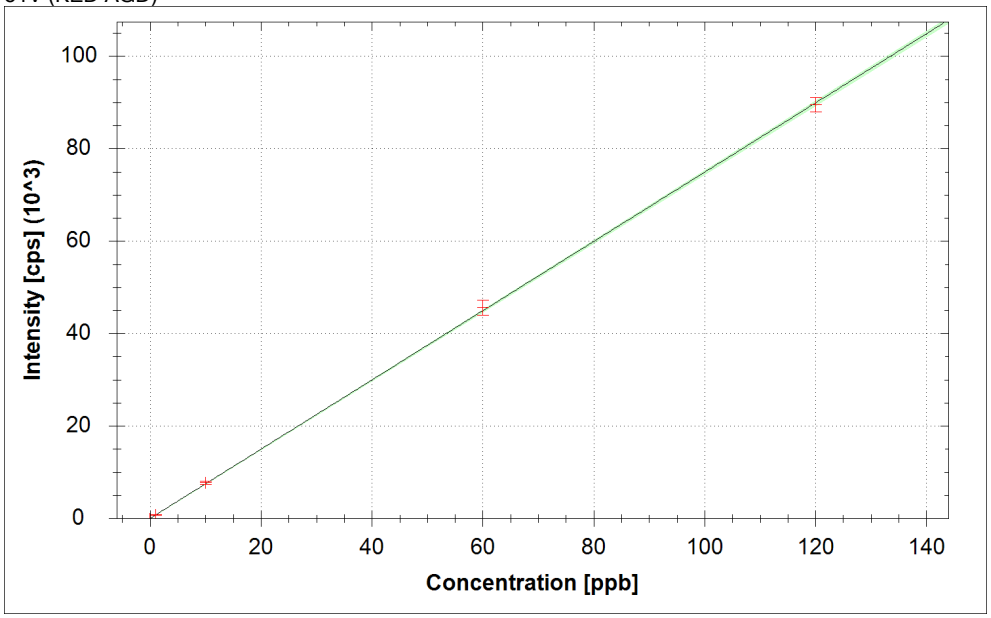
f(x) = 11.3406*x + 394.8377
R² = 0.9998
BEC = 34.816 ppb
LoD = 21.4230 ppb

44Ca (KED AGD)



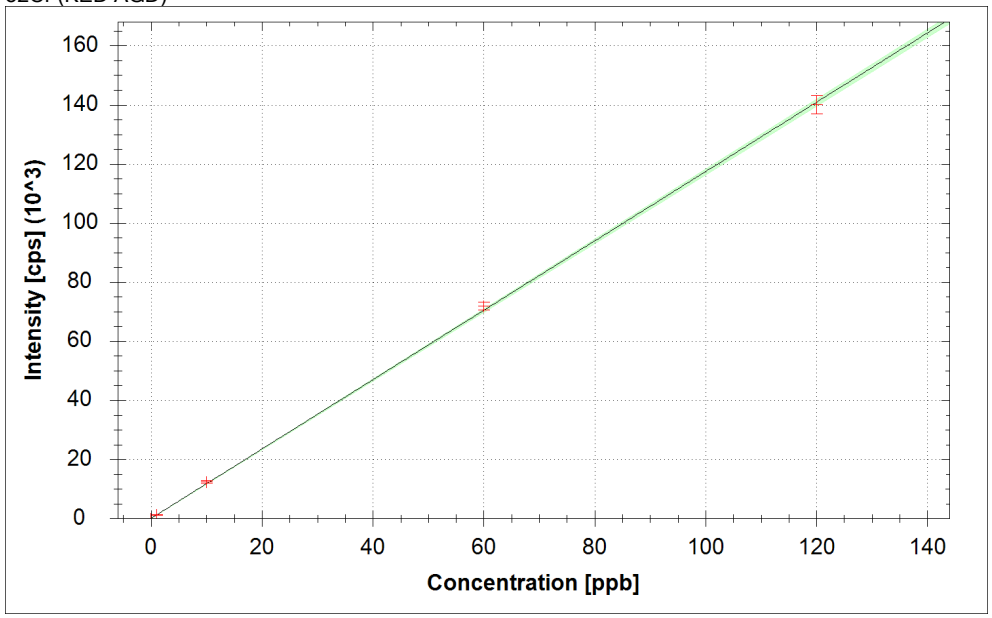
f(x) = 0.8050*x + 4.6887
R² = 0.9995
BEC = 5.825 ppb
LoD = 3.5518 ppb

51V (KED AGD)



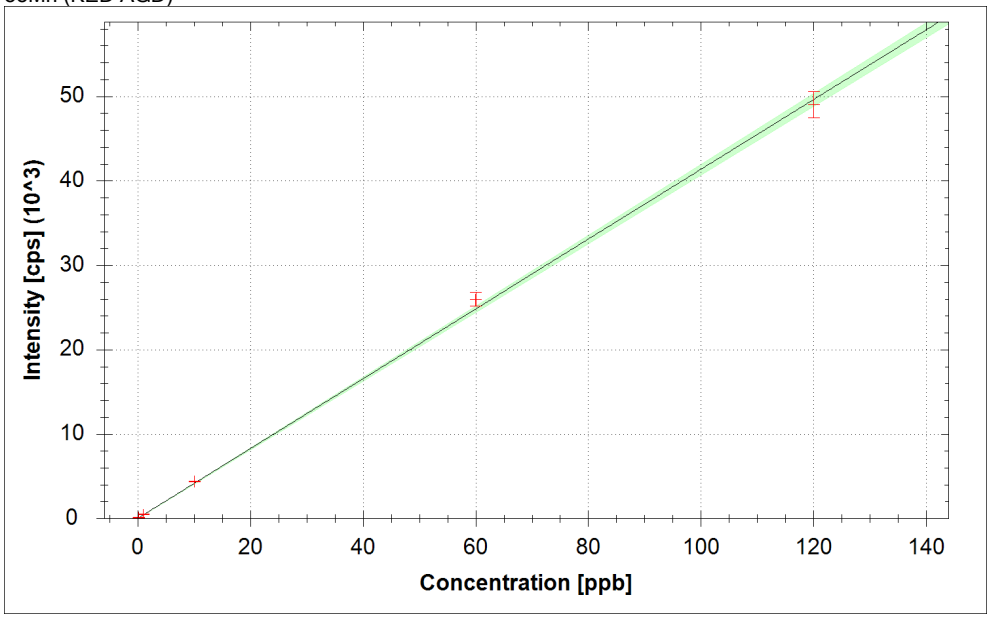
f(x) = 748.6870*x + 6.5664
R² = 0.9999
BEC = 0.009 ppb
LoD = 0.0257 ppb

52Cr (KED AGD)



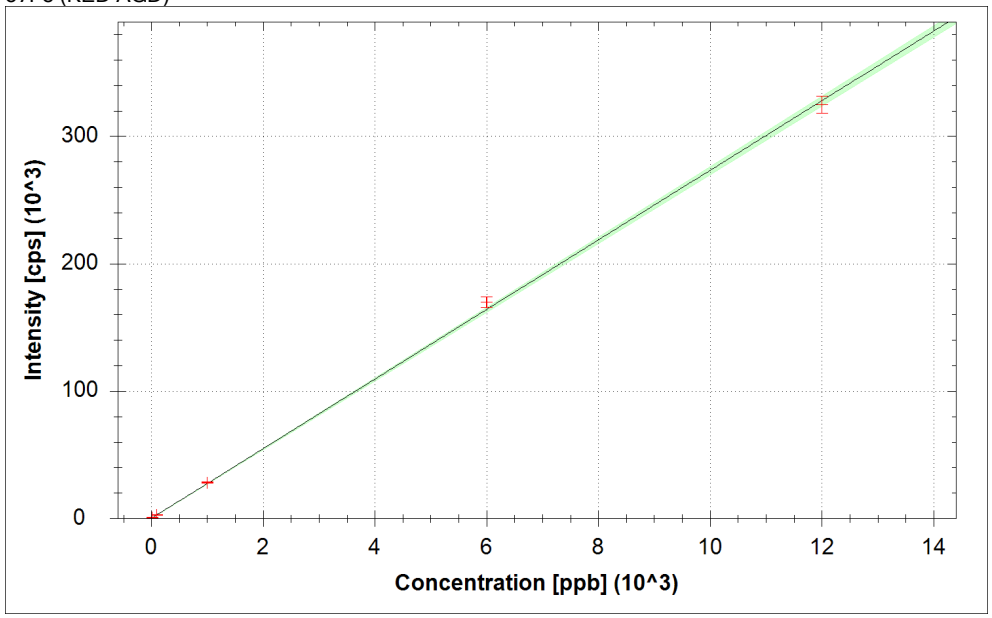
f(x) = 1173.3939*x + 28.7188
R² = 0.9998
BEC = 0.024 ppb
LoD = 0.0235 ppb

55Mn (KED AGD)



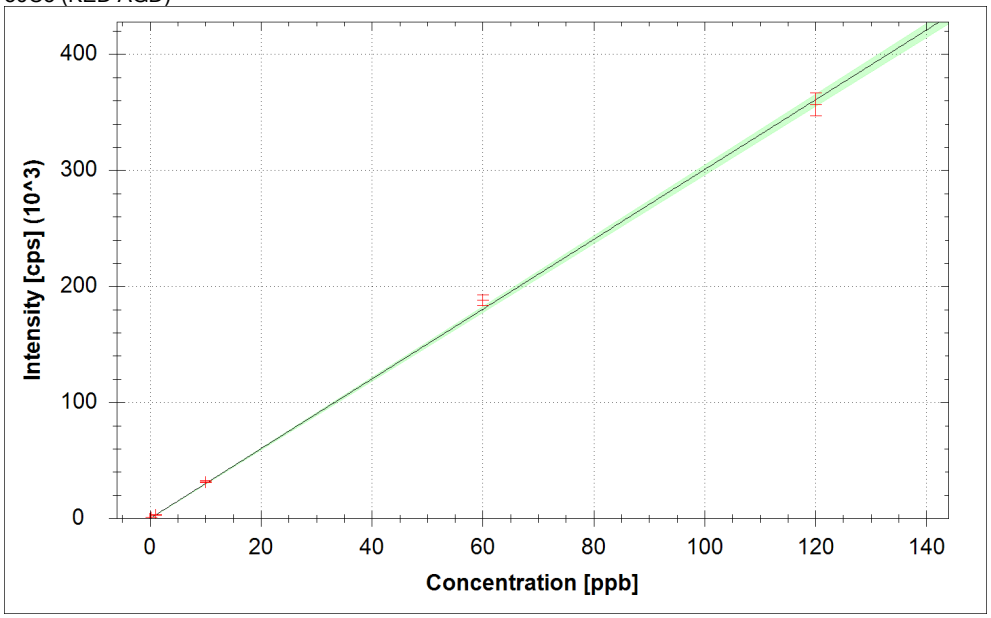
f(x) = 413.2295*x + 17.9529
R² = 0.9992
BEC = 0.043 ppb
LoD = 0.1050 ppb

57Fe (KED AGD)



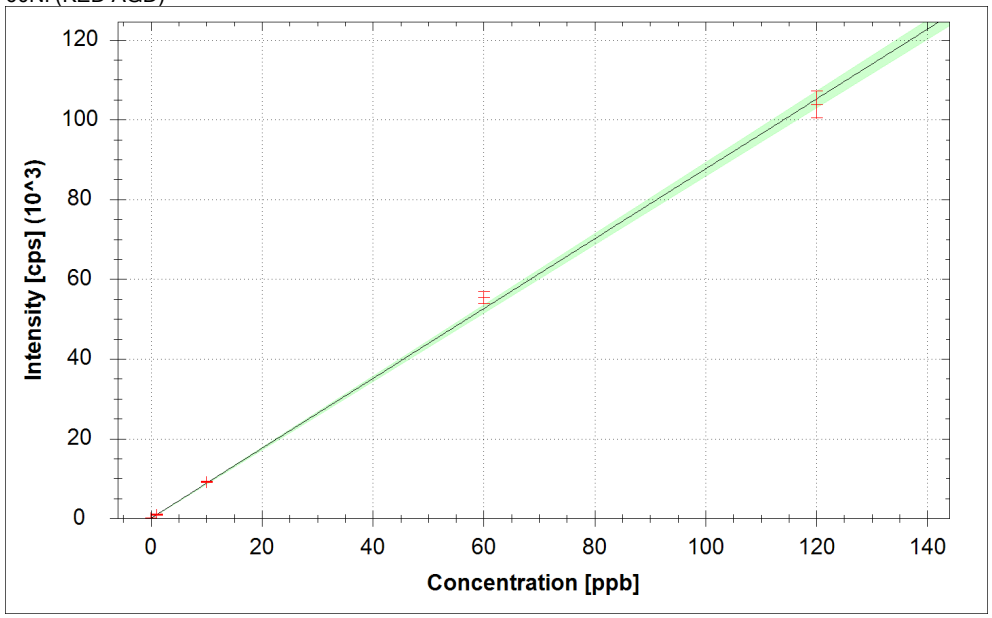
f(x) = 27.3032*x + 86.2133
R² = 0.9995
BEC = 3.158 ppb
LoD = 2.3017 ppb

59Co (KED AGD)



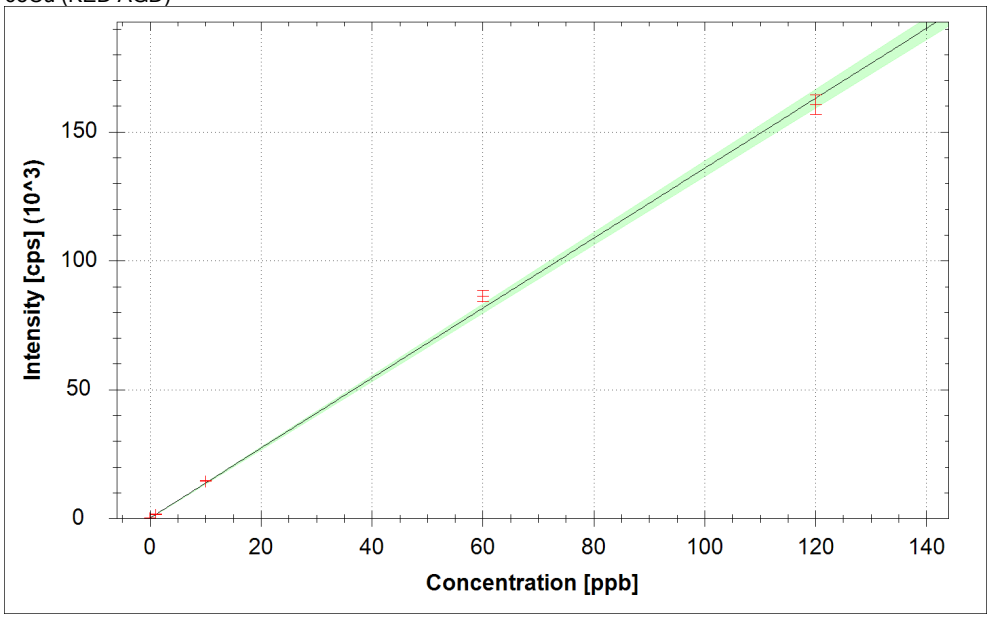
f(x) = 3004.7855*x + 2.2704
R² = 0.9993
BEC = 0.001 ppb
LoD = 0.0039 ppb

60Ni (KED AGD)



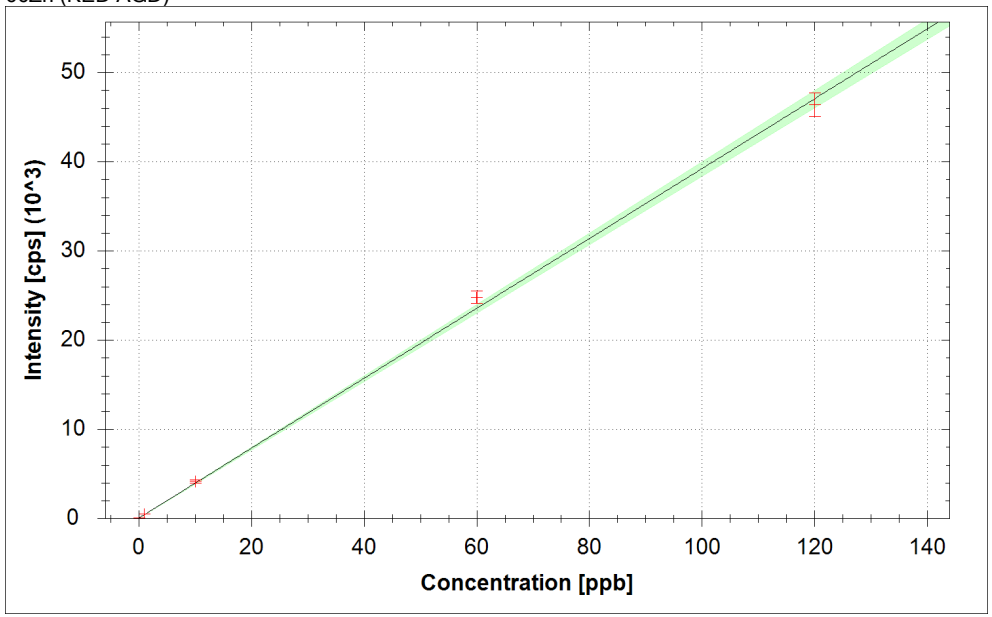
f(x) = 875.8307*x + 58.1084
R² = 0.9989
BEC = 0.066 ppb
LoD = 0.0620 ppb

65Cu (KED AGD)



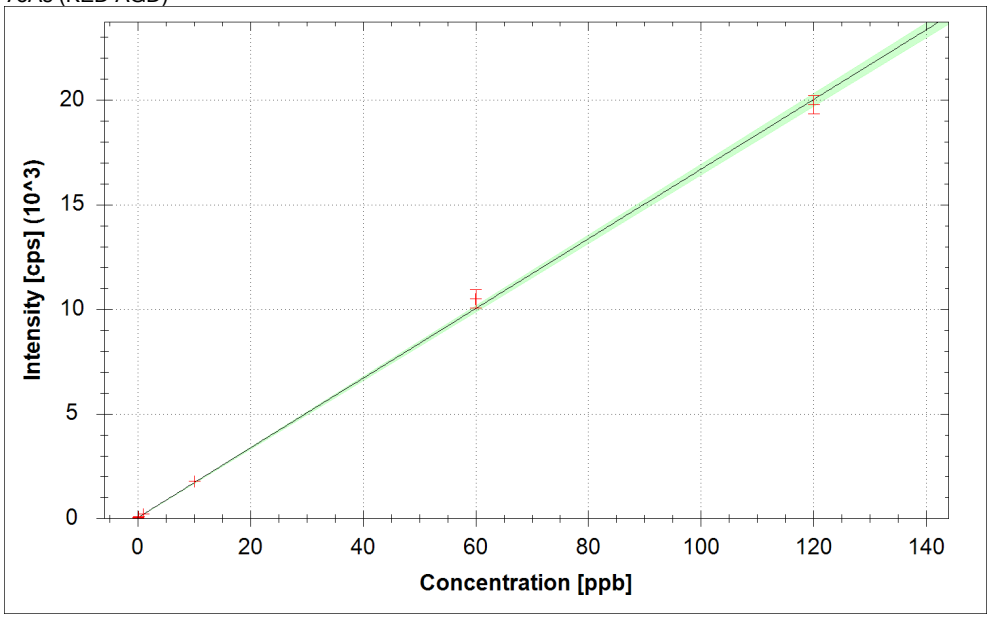
f(x) = 1356.6886*x + 143.0046
R² = 0.9986
BEC = 0.105 ppb
LoD = 0.1045 ppb

66Zn (KED AGD)



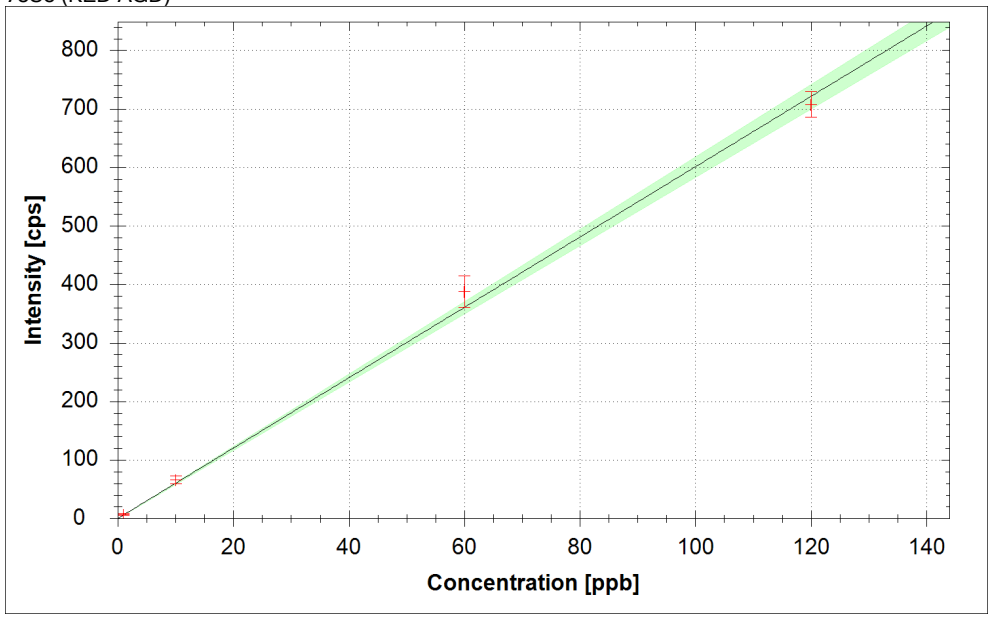
f(x) = 391.5411*x + 43.9824
R² = 0.9988
BEC = 0.112 ppb
LoD = 0.0514 ppb

75As (KED AGD)



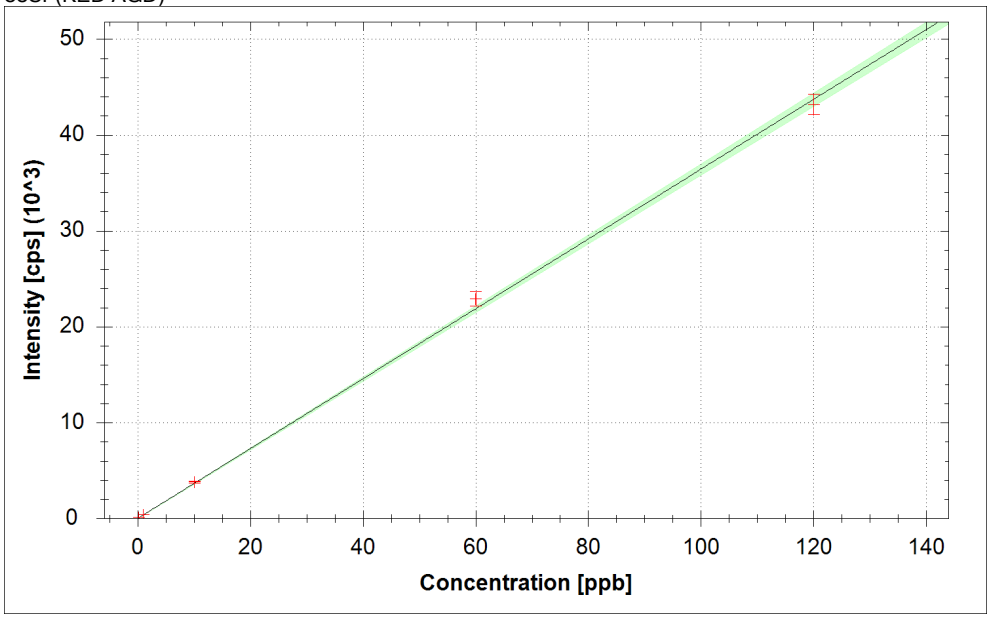
f(x) = 166.4305*x + 42.2242
R² = 0.9992
BEC = 0.254 ppb
LoD = 0.1460 ppb

78Se (KED AGD)



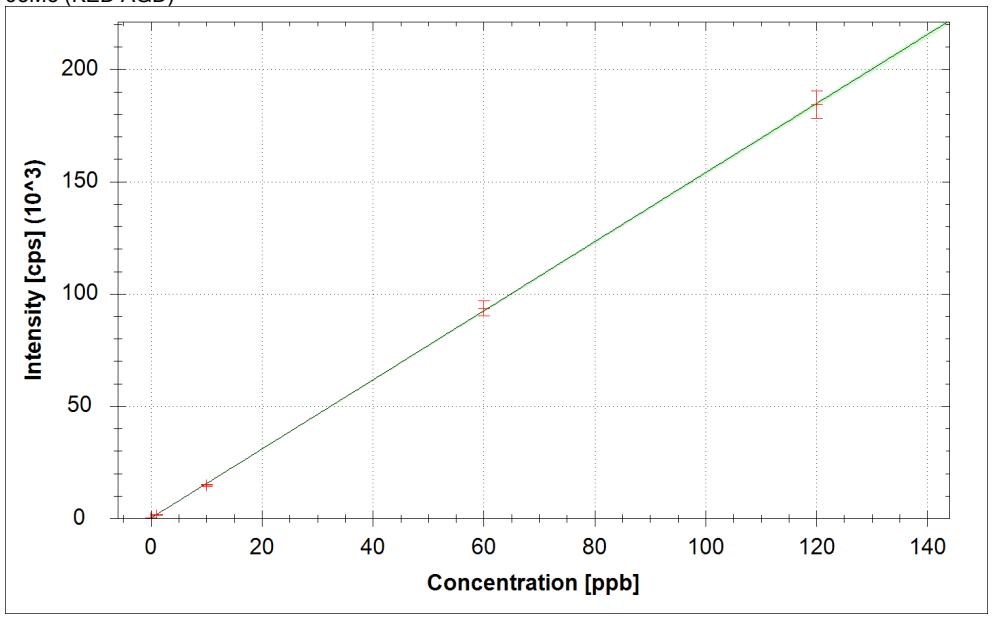
f(x) = 6.0091*x + -0.0144
R² = 0.9975
BEC = -0.002 ppb
LoD = 0.0891 ppb

88Sr (KED AGD)



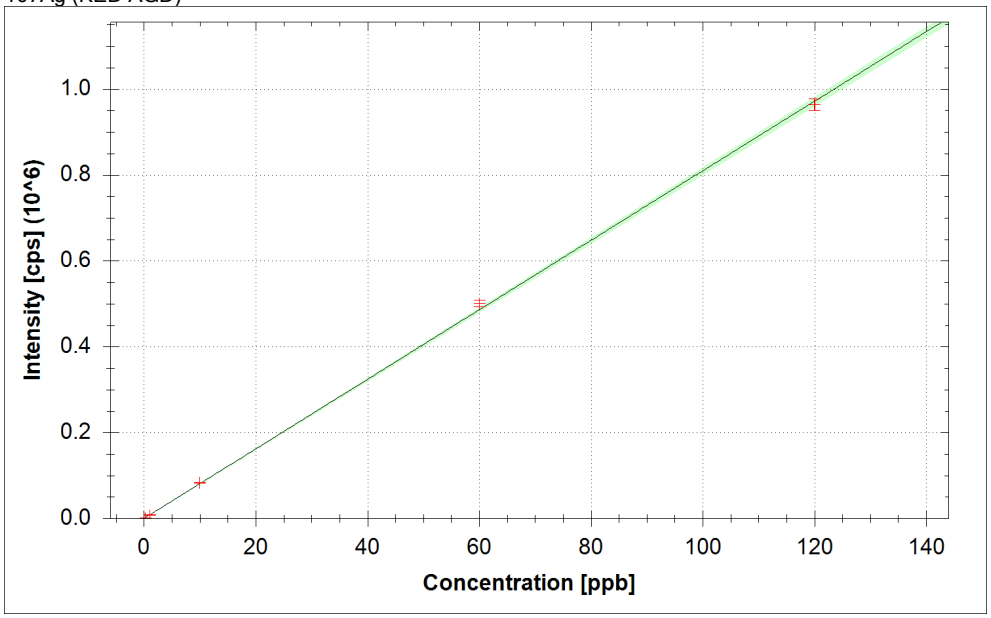
f(x) = 364.0799*x + 12.5381
R² = 0.9991
BEC = 0.034 ppb
LoD = 0.0038 ppb

95Mo (KED AGD)



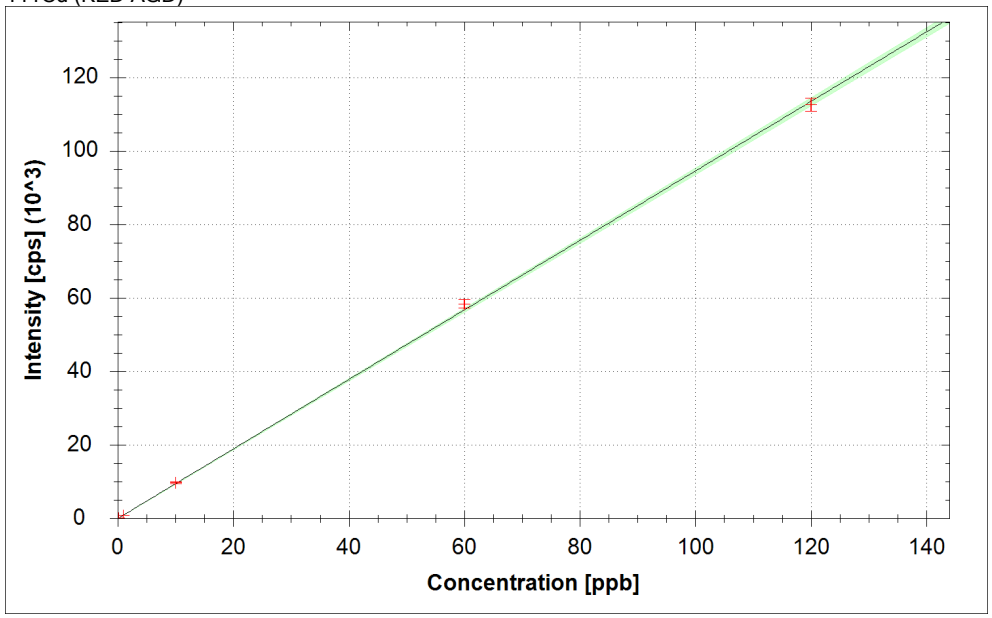
f(x) = 1537.3914*x + 171.1929
R² = 0.9999
BEC = 0.111 ppb
LoD = 0.0405 ppb

107Ag (KED AGD)



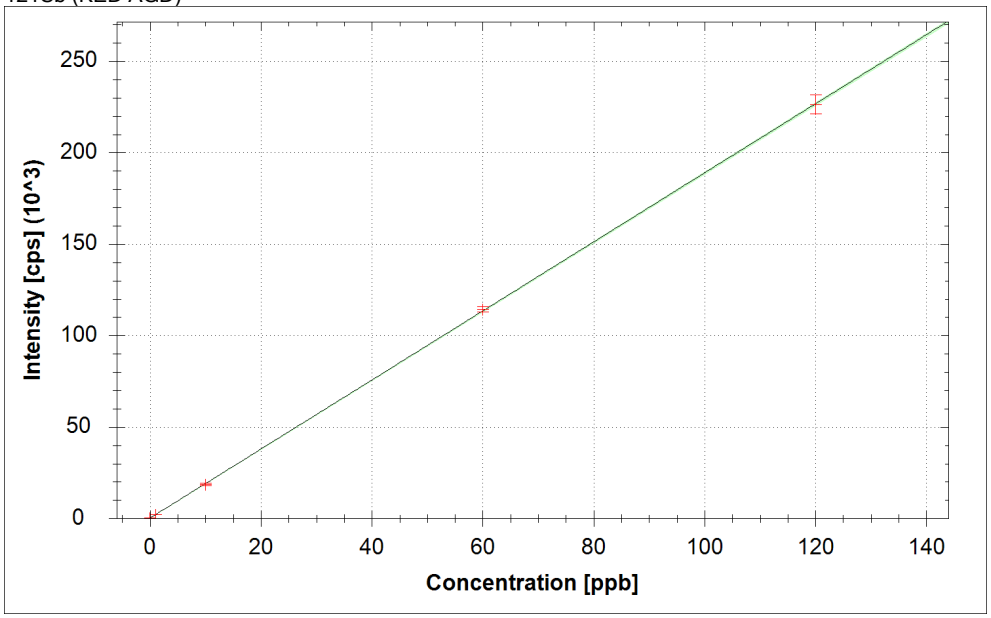
f(x) = 8095.5387*x + 31.0853
R² = 0.9996
BEC = 0.004 ppb
LoD = 0.0061 ppb

111Cd (KED AGD)



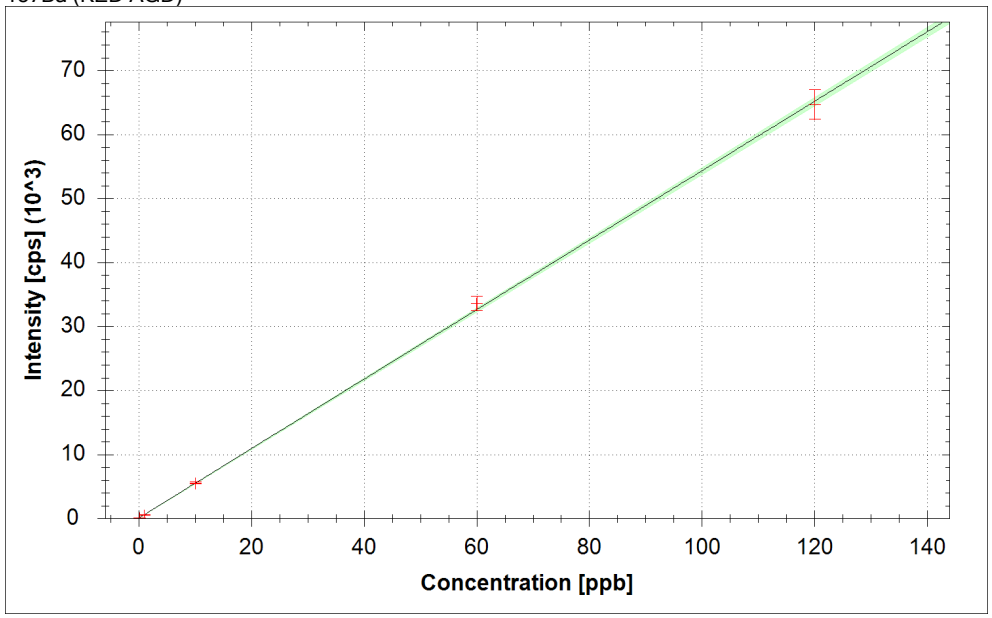
f(x) = 945.6604*x
R² = 0.9997
BEC = 0.000 ppb
LoD = 0.0000 ppb

121Sb (KED AGD)



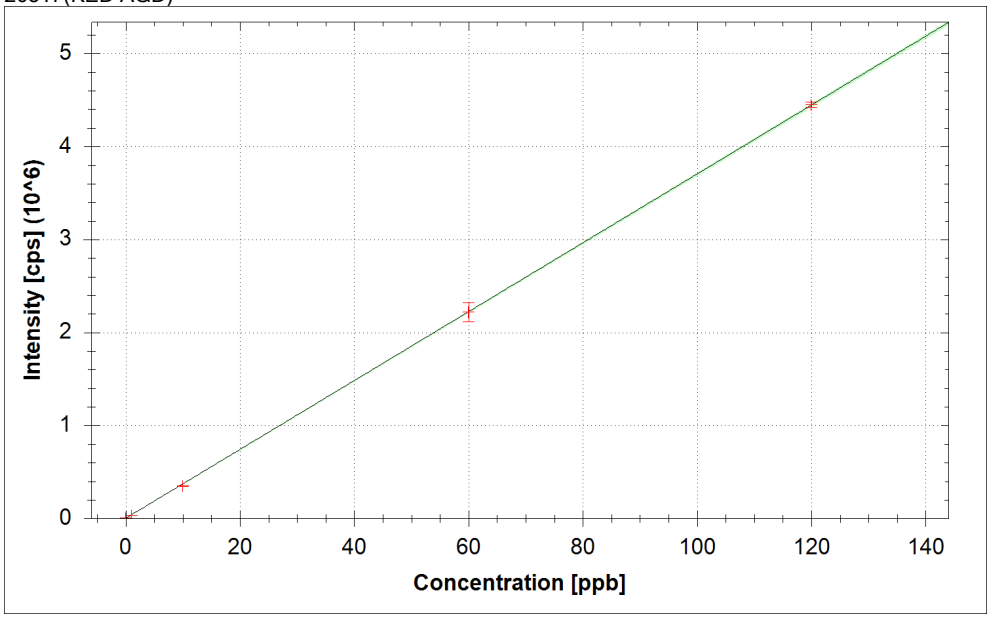
f(x) = 1887.1212*x + 214.4428
R² = 1.0000
BEC = 0.114 ppb
LoD = 0.0310 ppb

137Ba (KED AGD)



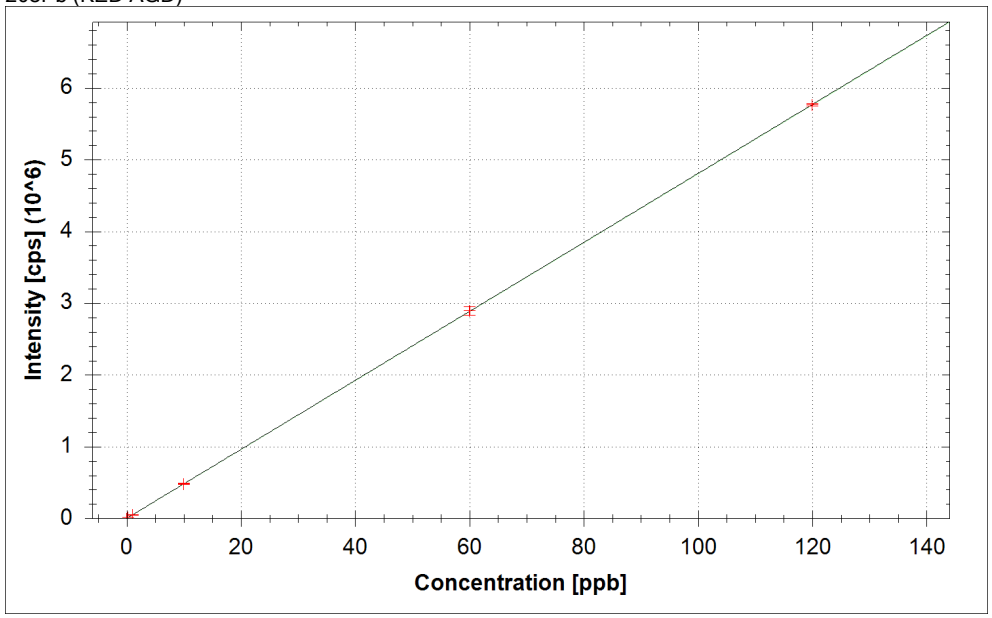
f(x) = 542.2931*x + 70.2635
R² = 0.9996
BEC = 0.130 ppb
LoD = 0.0837 ppb

205Tl (KED AGD)



f(x) = 37029.4534*x + 1923.8660
R² = 1.0000
BEC = 0.052 ppb
LoD = 0.0376 ppb

208Pb (KED AGD)



f(x) = 48059.6883*x + 1715.5606
R² = 1.0000
BEC = 0.036 ppb
LoD = 0.0041 ppb

Standards:

Analysis Index: 4
Analysis Name: 0.2/20 Cal
Analysis Type: STD
Analysis Started at: 3/5/2024 4:41:48 PM
Total Dilution Factor 1
Rack 0
Vial 2

Category	Concentration average	Concentration RSD	Standard Concentration	Standard Relative Difference
6Li (STD AGD)	100.270 %	0.9 %		0.000 %
6Li (KED AGD)	97.687 %	3.9 %		0.000 %
9Be (STD AGD)	0.215 ppb	7.6 %	0.200 ppb	7.509 %
23Na (KED AGD)	N/A	N/A	N/A	N/A
24Mg (KED AGD)	18.376 ppb	3.3 %	20.000 ppb	8.119 %
27Al (KED AGD)	N/A	N/A	N/A	N/A
39K (KED AGD)	N/A	N/A	N/A	N/A
44Ca (KED AGD)	N/A	N/A	N/A	N/A
45Sc (STD AGD)	103.354 %	0.3 %		0.000 %
51V (KED AGD)	N/A	N/A	N/A	N/A
52Cr (KED AGD)	N/A	N/A	N/A	N/A
55Mn (KED AGD)	0.224 ppb	32.6 %	0.200 ppb	11.975 %
57Fe (KED AGD)	20.738 ppb	5.7 %	20.000 ppb	3.690 %
59Co (KED AGD)	0.246 ppb	3.9 %	0.200 ppb	23.217 %
60Ni (KED AGD)	N/A	N/A	N/A	N/A
65Cu (KED AGD)	N/A	N/A	N/A	N/A
66Zn (KED AGD)	N/A	N/A	N/A	N/A
74Ge (KED AGD)	99.520 %	4.0 %		0.000 %
75As (KED AGD)	0.233 ppb	28.9 %	0.200 ppb	16.527 %
78Se (KED AGD)	N/A	N/A	N/A	N/A
88Sr (KED AGD)	0.271 ppb	2.0 %	0.200 ppb	35.531 %
95Mo (KED AGD)	N/A	N/A	N/A	N/A
103Rh (KED AGD)	99.209 %	2.0 %		0.000 %
107Ag (KED AGD)	0.207 ppb	4.9 %	0.200 ppb	3.280 %
111Cd (KED AGD)	0.210 ppb	6.5 %	0.200 ppb	5.208 %
115In (KED AGD)	98.581 %	2.9 %		0.000 %
121Sb (KED AGD)	N/A	N/A	N/A	N/A
137Ba (KED AGD)	0.081 ppb	23.1 %	0.200 ppb	59.640 %
159Tb (KED AGD)	99.977 %	1.5 %		0.000 %
175Lu (KED AGD)	98.953 %	1.4 %		0.000 %
205Tl (KED AGD)	N/A	N/A	N/A	N/A
208Pb (KED AGD)	0.207 ppb	3.2 %	0.200 ppb	3.734 %

Standards:

Analysis Index: 5
Analysis Name: 1/100 Cal
Analysis Type: STD
Analysis Started at: 3/5/2024 4:46:25 PM
Total Dilution Factor 10000
Rack 0
Vial 3

Category	Concentration average	Concentration RSD	Standard Concentration	Standard Relative Difference
6Li (STD AGD)	100.500 %	1.0 %		0.000 %
6Li (KED AGD)	99.260 %	4.9 %		0.000 %
9Be (STD AGD)	0.989 ppb	2.0 %	1.000 ppb	1.094 %
23Na (KED AGD)	91.582 ppb	7.9 %	100.000 ppb	8.418 %
24Mg (KED AGD)	94.018 ppb	9.3 %	100.000 ppb	5.982 %
27Al (KED AGD)	3.479 ppb	15.0 %	1.000 ppb	247.881 %
39K (KED AGD)	101.227 ppb	12.6 %	100.000 ppb	1.227 %
44Ca (KED AGD)	145.494 ppb	9.1 %	100.000 ppb	45.494 %
45Sc (STD AGD)	104.926 %	0.4 %		0.000 %
51V (KED AGD)	1.019 ppb	8.0 %	1.000 ppb	1.941 %
52Cr (KED AGD)	0.992 ppb	6.7 %	1.000 ppb	0.777 %
55Mn (KED AGD)	1.045 ppb	9.0 %	1.000 ppb	4.460 %
57Fe (KED AGD)	101.560 ppb	7.0 %	100.000 ppb	1.560 %
59Co (KED AGD)	0.999 ppb	2.1 %	1.000 ppb	0.115 %
60Ni (KED AGD)	0.982 ppb	16.4 %	1.000 ppb	1.776 %
65Cu (KED AGD)	1.019 ppb	4.1 %	1.000 ppb	1.899 %
66Zn (KED AGD)	1.156 ppb	6.1 %	1.000 ppb	15.564 %
74Ge (KED AGD)	105.628 %	7.4 %		0.000 %
75As (KED AGD)	0.947 ppb	1.7 %	1.000 ppb	5.251 %
78Se (KED AGD)	1.159 ppb	22.4 %	1.000 ppb	15.921 %
88Sr (KED AGD)	1.008 ppb	2.9 %	1.000 ppb	0.847 %
95Mo (KED AGD)	0.878 ppb	10.3 %	1.000 ppb	12.235 %
103Rh (KED AGD)	103.289 %	4.0 %		0.000 %
107Ag (KED AGD)	0.971 ppb	1.8 %	1.000 ppb	2.915 %
111Cd (KED AGD)	0.956 ppb	1.7 %	1.000 ppb	4.430 %
115In (KED AGD)	104.239 %	3.8 %		0.000 %
121Sb (KED AGD)	0.916 ppb	2.9 %	1.000 ppb	8.385 %
137Ba (KED AGD)	0.824 ppb	17.5 %	1.000 ppb	17.624 %
159Tb (KED AGD)	104.853 %	4.7 %		0.000 %
175Lu (KED AGD)	104.466 %	4.9 %		0.000 %
205Tl (KED AGD)	0.840 ppb	5.8 %	1.000 ppb	15.963 %
208Pb (KED AGD)	0.958 ppb	3.0 %	1.000 ppb	4.196 %

Standards:

Analysis Index: 6
Analysis Name: 10/1000 Cal
Analysis Type: STD
Analysis Started at: 3/5/2024 4:51:03 PM
Total Dilution Factor 1000
Rack 0
Vial 4

Category	Concentration average	Concentration RSD	Standard Concentration	Standard Relative Difference
6Li (STD AGD)	92.595 %	1.7 %		0.000 %
6Li (KED AGD)	100.277 %	2.0 %		0.000 %
9Be (STD AGD)	11.491 ppb	2.5 %	10.000 ppb	14.912 %
23Na (KED AGD)	1,008.779 ppb	4.4 %	1,000.000 ppb	0.878 %
24Mg (KED AGD)	1,029.527 ppb	4.6 %	1,000.000 ppb	2.953 %
27Al (KED AGD)	10.755 ppb	13.9 %	10.000 ppb	7.548 %
39K (KED AGD)	1,042.573 ppb	1.6 %	1,000.000 ppb	4.257 %
44Ca (KED AGD)	1,101.378 ppb	5.9 %	1,000.000 ppb	10.138 %
45Sc (STD AGD)	98.390 %	2.1 %		0.000 %
51V (KED AGD)	10.332 ppb	4.6 %	10.000 ppb	3.316 %
52Cr (KED AGD)	10.500 ppb	3.2 %	10.000 ppb	5.001 %
55Mn (KED AGD)	10.531 ppb	1.4 %	10.000 ppb	5.309 %
57Fe (KED AGD)	1,028.112 ppb	2.0 %	1,000.000 ppb	2.811 %
59Co (KED AGD)	10.511 ppb	2.7 %	10.000 ppb	5.108 %
60Ni (KED AGD)	10.415 ppb	1.4 %	10.000 ppb	4.153 %
65Cu (KED AGD)	10.554 ppb	0.9 %	10.000 ppb	5.543 %
66Zn (KED AGD)	10.514 ppb	4.4 %	10.000 ppb	5.136 %
74Ge (KED AGD)	103.619 %	1.6 %		0.000 %
75As (KED AGD)	10.466 ppb	0.5 %	10.000 ppb	4.660 %
78Se (KED AGD)	11.035 ppb	10.2 %	10.000 ppb	10.353 %
88Sr (KED AGD)	10.382 ppb	2.4 %	10.000 ppb	3.816 %
95Mo (KED AGD)	9.437 ppb	2.9 %	10.000 ppb	5.629 %
103Rh (KED AGD)	100.742 %	0.4 %		0.000 %
107Ag (KED AGD)	10.250 ppb	0.5 %	10.000 ppb	2.504 %
111Cd (KED AGD)	10.250 ppb	3.4 %	10.000 ppb	2.496 %
115In (KED AGD)	100.133 %	3.4 %		0.000 %
121Sb (KED AGD)	9.695 ppb	3.6 %	10.000 ppb	3.051 %
137Ba (KED AGD)	10.079 ppb	2.5 %	10.000 ppb	0.794 %
159Tb (KED AGD)	103.698 %	1.5 %		0.000 %
175Lu (KED AGD)	102.236 %	1.9 %		0.000 %
205Tl (KED AGD)	9.339 ppb	0.7 %	10.000 ppb	6.605 %
208Pb (KED AGD)	9.978 ppb	1.8 %	10.000 ppb	0.225 %

Standards:

Analysis Index: 7
Analysis Name: 60/6000 Cal
Analysis Type: STD
Analysis Started at: 3/5/2024 4:55:41 PM
Total Dilution Factor 166.6666666
Rack 0
Vial 5

Category	Concentration average	Concentration RSD	Standard Concentration	Standard Relative Difference
6Li (STD AGD)	98.146 %	1.3 %		0.000 %
6Li (KED AGD)	99.167 %	4.0 %		0.000 %
9Be (STD AGD)	60.814 ppb	0.3 %	60.000 ppb	1.357 %
23Na (KED AGD)	5,940.484 ppb	5.7 %	6,000.000 ppb	0.992 %
24Mg (KED AGD)	5,979.645 ppb	5.4 %	6,000.000 ppb	0.339 %
27Al (KED AGD)	58.744 ppb	2.8 %	60.000 ppb	2.094 %
39K (KED AGD)	6,136.186 ppb	5.9 %	6,000.000 ppb	2.270 %
44Ca (KED AGD)	6,177.609 ppb	4.9 %	6,000.000 ppb	2.960 %
45Sc (STD AGD)	109.335 %	1.1 %		0.000 %
51V (KED AGD)	60.879 ppb	3.6 %	60.000 ppb	1.465 %
52Cr (KED AGD)	61.259 ppb	1.8 %	60.000 ppb	2.099 %
55Mn (KED AGD)	62.763 ppb	3.1 %	60.000 ppb	4.604 %
57Fe (KED AGD)	6,214.690 ppb	2.5 %	6,000.000 ppb	3.578 %
59Co (KED AGD)	62.595 ppb	2.3 %	60.000 ppb	4.325 %
60Ni (KED AGD)	63.094 ppb	2.7 %	60.000 ppb	5.157 %
65Cu (KED AGD)	63.460 ppb	2.5 %	60.000 ppb	5.766 %
66Zn (KED AGD)	63.195 ppb	2.7 %	60.000 ppb	5.324 %
74Ge (KED AGD)	97.493 %	1.9 %		0.000 %
75As (KED AGD)	62.771 ppb	4.2 %	60.000 ppb	4.618 %
78Se (KED AGD)	64.459 ppb	6.9 %	60.000 ppb	7.432 %
88Sr (KED AGD)	62.898 ppb	3.3 %	60.000 ppb	4.829 %
95Mo (KED AGD)	60.657 ppb	3.6 %	60.000 ppb	1.095 %
103Rh (KED AGD)	96.460 %	2.4 %		0.000 %
107Ag (KED AGD)	61.877 ppb	1.6 %	60.000 ppb	3.128 %
111Cd (KED AGD)	61.769 ppb	2.1 %	60.000 ppb	2.948 %
115In (KED AGD)	95.523 %	3.5 %		0.000 %
121Sb (KED AGD)	60.520 ppb	1.2 %	60.000 ppb	0.867 %
137Ba (KED AGD)	61.839 ppb	3.3 %	60.000 ppb	3.066 %
159Tb (KED AGD)	99.960 %	1.6 %		0.000 %
175Lu (KED AGD)	100.373 %	2.1 %		0.000 %
205Tl (KED AGD)	59.834 ppb	4.7 %	60.000 ppb	0.276 %
208Pb (KED AGD)	60.113 ppb	2.1 %	60.000 ppb	0.189 %

Standards:

Analysis Index: 8
Analysis Name: 120/12000 Cal
Analysis Type: STD
Analysis Started at: 3/5/2024 5:00:20 PM
Total Dilution Factor 83.33333333
Rack 0
Vial 6

Category	Concentration average	Concentration RSD	Standard Concentration	Standard Relative Difference
6Li (STD AGD)	94.093 %	1.5 %		0.000 %
6Li (KED AGD)	91.397 %	8.3 %		0.000 %
9Be (STD AGD)	119.469 ppb	0.6 %	120.000 ppb	0.443 %
23Na (KED AGD)	12,029.096 ppb	6.3 %	12,000.000 ppb	0.242 %
24Mg (KED AGD)	12,007.770 ppb	5.4 %	12,000.000 ppb	0.065 %
27Al (KED AGD)	120.545 ppb	8.5 %	120.000 ppb	0.454 %
39K (KED AGD)	11,928.349 ppb	5.0 %	12,000.000 ppb	0.597 %
44Ca (KED AGD)	11,902.368 ppb	4.7 %	12,000.000 ppb	0.814 %
45Sc (STD AGD)	115.646 %	0.7 %		0.000 %
51V (KED AGD)	119.533 ppb	1.8 %	120.000 ppb	0.389 %
52Cr (KED AGD)	119.329 ppb	2.2 %	120.000 ppb	0.559 %
55Mn (KED AGD)	118.574 ppb	3.2 %	120.000 ppb	1.188 %
57Fe (KED AGD)	11,890.298 ppb	2.1 %	12,000.000 ppb	0.914 %
59Co (KED AGD)	118.660 ppb	2.8 %	120.000 ppb	1.117 %
60Ni (KED AGD)	118.418 ppb	3.3 %	120.000 ppb	1.318 %
65Cu (KED AGD)	118.224 ppb	2.4 %	120.000 ppb	1.480 %
66Zn (KED AGD)	118.359 ppb	2.8 %	120.000 ppb	1.368 %
74Ge (KED AGD)	98.912 %	2.0 %		0.000 %
75As (KED AGD)	118.576 ppb	2.2 %	120.000 ppb	1.187 %
78Se (KED AGD)	117.683 ppb	3.1 %	120.000 ppb	1.931 %
88Sr (KED AGD)	118.519 ppb	2.4 %	120.000 ppb	1.234 %
95Mo (KED AGD)	119.719 ppb	3.4 %	120.000 ppb	0.234 %
103Rh (KED AGD)	95.194 %	1.8 %		0.000 %
107Ag (KED AGD)	119.041 ppb	1.5 %	120.000 ppb	0.799 %
111Cd (KED AGD)	119.095 ppb	1.6 %	120.000 ppb	0.754 %
115In (KED AGD)	92.795 %	2.5 %		0.000 %
121Sb (KED AGD)	119.766 ppb	2.3 %	120.000 ppb	0.195 %
137Ba (KED AGD)	119.075 ppb	3.6 %	120.000 ppb	0.771 %
159Tb (KED AGD)	100.233 %	1.1 %		0.000 %
175Lu (KED AGD)	99.690 %	1.3 %		0.000 %
205Tl (KED AGD)	120.139 ppb	0.6 %	120.000 ppb	0.116 %
208Pb (KED AGD)	119.946 ppb	0.3 %	120.000 ppb	0.045 %

Alpha ICPMSQ Data with SRD

3/6/2024 5:52:11 AM

Analysis index:	1	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	Rinse	Rack	0		
Analysis started at:	3/5/2024 4:27:55 PM	Vial	1		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	99.844 %	96.577 %	0.006 ppb	30.965 ppb	2.729 ppb	2.128 ppb	23.240 ppb	13.905 ppb	105.241 %
Concentration per Run 1	101.279 %	98.242 %	0.003 ppb	39.201 ppb	3.501 ppb	1.806 ppb	25.141 ppb	20.419 ppb	107.480 %
Concentration per Run 2	100.172 %	95.190 %	0.009 ppb	27.577 ppb	1.638 ppb	2.497 ppb	24.057 ppb	13.882 ppb	104.418 %
Concentration per Run 3	98.082 %	96.300 %	0.006 ppb	26.117 ppb	3.049 ppb	2.082 ppb	20.522 ppb	7.414 ppb	103.824 %
Concentration RSD	1.6 %	1.6 %	45.4 %	23.2 %	35.6 %	16.3 %	10.4 %	46.8 %	1.9 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.003 ppb	0.058 ppb	0.219 ppb	10.720 ppb	0.013 ppb	0.196 ppb	0.193 ppb	3.009 ppb	99.206 %
Concentration per Run 1	0.000 ppb	0.070 ppb	0.200 ppb	10.345 ppb	0.019 ppb	0.263 ppb	0.215 ppb	3.089 ppb	99.864 %
Concentration per Run 2	0.000 ppb	0.044 ppb	0.217 ppb	10.857 ppb	0.015 ppb	0.125 ppb	0.175 ppb	2.887 ppb	100.689 %
Concentration per Run 3	-0.009 ppb	0.061 ppb	0.240 ppb	10.957 ppb	0.004 ppb	0.201 ppb	0.189 ppb	3.052 ppb	97.066 %
Concentration RSD	186.8 %	22.1 %	9.1 %	3.1 %	63.0 %	35.2 %	10.6 %	3.6 %	1.9 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	-0.003 ppb	0.212 ppb	0.024 ppb	0.178 ppb	98.943 %	0.007 ppb	0.000 ppb	99.748 %	0.187 ppb
Concentration per Run 1	-0.043 ppb	0.038 ppb	0.024 ppb	0.196 ppb	100.514 %	0.009 ppb	0.000 ppb	103.165 %	0.181 ppb
Concentration per Run 2	0.020 ppb	0.203 ppb	0.028 ppb	0.168 ppb	99.065 %	0.007 ppb	0.000 ppb	96.999 %	0.170 ppb
Concentration per Run 3	0.015 ppb	0.395 ppb	0.021 ppb	0.170 ppb	97.250 %	0.006 ppb	0.000 ppb	99.081 %	0.210 ppb
Concentration RSD	1,206.8 %	84.4 %	13.4 %	8.8 %	1.7 %	17.3 %	N/A	3.1 %	11.0 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	-0.068 ppb	100.467 %	101.492 %	0.061 ppb	0.084 ppb
Concentration per Run 1	-0.094 ppb	105.568 %	107.967 %	0.035 ppb	0.083 ppb
Concentration per Run 2	-0.017 ppb	99.061 %	98.563 %	0.077 ppb	0.084 ppb
Concentration per Run 3	-0.092 ppb	96.771 %	97.946 %	0.070 ppb	0.086 ppb
Concentration RSD	65.2 %	4.5 %	5.5 %	36.5 %	1.9 %

Alpha ICPMSQ Data with SRD

3/6/2024 5:52:11 AM

Analysis index: 2
Analysis label: CAL LOT #M24-1045
Analysis started at: 3/5/2024 4:32:30 PM
User name ALPHALAB\Metals-Instrument
Rack 0
Vial 1
Comment <Comment>

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	101.181 %	97.687 %	0.018 ppb	21.718 ppb	1.829 ppb	1.570 ppb	16.870 ppb	10.802 ppb	104.151 %
Concentration per Run 1	101.168 %	104.903 %	0.010 ppb	21.092 ppb	1.398 ppb	1.255 ppb	12.355 ppb	14.351 ppb	103.059 %
Concentration per Run 2	101.928 %	98.797 %	0.015 ppb	19.682 ppb	3.473 ppb	1.686 ppb	21.851 ppb	10.397 ppb	105.262 %
Concentration per Run 3	100.446 %	89.362 %	0.028 ppb	24.380 ppb	0.615 ppb	1.769 ppb	16.404 ppb	7.659 ppb	104.131 %
Concentration RSD	0.7 %	8.0 %	52.2 %	11.1 %	80.7 %	17.6 %	28.2 %	31.1 %	1.1 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.009 ppb	0.058 ppb	0.207 ppb	6.895 ppb	0.010 ppb	0.178 ppb	0.174 ppb	3.049 ppb	101.350 %
Concentration per Run 1	0.017 ppb	0.071 ppb	0.296 ppb	7.584 ppb	0.010 ppb	0.188 ppb	0.172 ppb	3.071 ppb	104.455 %
Concentration per Run 2	0.009 ppb	0.049 ppb	0.150 ppb	4.898 ppb	0.008 ppb	0.154 ppb	0.164 ppb	3.074 ppb	100.435 %
Concentration per Run 3	0.001 ppb	0.052 ppb	0.174 ppb	8.204 ppb	0.013 ppb	0.192 ppb	0.186 ppb	3.001 ppb	99.159 %
Concentration RSD	92.5 %	19.9 %	37.8 %	25.5 %	23.9 %	11.8 %	6.3 %	1.4 %	2.7 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	-0.011 ppb	0.120 ppb	0.017 ppb	0.071 ppb	99.989 %	0.007 ppb	0.003 ppb	100.146 %	0.087 ppb
Concentration per Run 1	-0.024 ppb	0.036 ppb	0.014 ppb	0.026 ppb	104.569 %	0.006 ppb	0.001 ppb	107.480 %	0.052 ppb
Concentration per Run 2	0.001 ppb	0.096 ppb	0.013 ppb	0.122 ppb	97.704 %	0.007 ppb	0.001 ppb	95.534 %	0.108 ppb
Concentration per Run 3	-0.011 ppb	0.227 ppb	0.023 ppb	0.065 ppb	97.694 %	0.009 ppb	0.006 ppb	97.425 %	0.101 ppb
Concentration RSD	107.6 %	81.3 %	31.5 %	68.3 %	4.0 %	26.3 %	88.7 %	6.4 %	34.8 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	0.093 ppb	101.870 %	103.158 %	0.020 ppb	0.076 ppb
Concentration per Run 1	-0.061 ppb	106.190 %	109.946 %	-0.005 ppb	0.069 ppb
Concentration per Run 2	-0.047 ppb	99.051 %	99.187 %	0.035 ppb	0.080 ppb
Concentration per Run 3	0.386 ppb	100.371 %	100.340 %	0.031 ppb	0.079 ppb
Concentration RSD	274.0 %	3.7 %	5.7 %	109.6 %	8.4 %

Alpha ICPMSQ Data with SRD

3/6/2024 5:52:11 AM

Analysis index:	3	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	Blank WKP ICPMSQ	Rack	4		
Analysis started at:	3/5/2024 4:37:06 PM	Vial	49		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	100.000 %	100.000 %	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	100.000 %
Concentration per Run	100.000 %	100.000 %	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	100.000 %
Concentration RSD	0.0 %	0.1 %	0.3 %	0.1 %	0.1 %	0.5 %	0.2 %	0.2 %	0.0 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	100.000 %
Concentration per Run	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	100.000 %
Concentration RSD	1.0 %	0.3 %	0.8 %	0.2 %	1.7 %	0.3 %	0.3 %	0.2 %	0.0 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	100.000 %	0.000 ppb	0.000 ppb	100.000 %	0.000 ppb
Concentration per Run	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	100.000 %	0.000 ppb	0.000 ppb	100.000 %	0.000 ppb
Concentration RSD	0.2 %	-12.4 %	0.0 %	0.1 %	0.0 %	0.5 %		0.0 %	0.1 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	0.000 ppb	100.000 %	100.000 %	0.000 ppb	0.000 ppb
Concentration per Run	0.000 ppb	100.000 %	100.000 %	0.000 ppb	0.000 ppb
Concentration RSD	0.2 %	0.0 %	0.0 %	0.2 %	0.0 %

Alpha ICPMSQ Data with SRD

3/6/2024 5:52:11 AM

Analysis index:	4	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	0.2/20 Cal	Rack	0		
Analysis started at:	3/5/2024 4:41:48 PM	Vial	2		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	100.270 %	97.687 %	0.215 ppb	N/A	18.376 ppb	N/A	N/A	N/A	103.354 %
Concentration per Run 1	100.697 %	95.190 %	0.212 ppb	N/A	18.356 ppb	N/A	N/A	N/A	103.105 %
Concentration per Run 2	99.187 %	102.128 %	0.233 ppb	N/A	17.786 ppb	N/A	N/A	N/A	103.241 %
Concentration per Run 3	100.927 %	95.745 %	0.200 ppb	N/A	18.986 ppb	N/A	N/A	N/A	103.716 %
Concentration RSD	0.9 %	3.9 %	7.6 %	N/A	3.3 %	N/A	N/A	N/A	0.3 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	N/A	N/A	0.224 ppb	20.738 ppb	0.246 ppb	N/A	N/A	N/A	99.520 %
Concentration per Run 1	N/A	N/A	0.228 ppb	20.254 ppb	0.242 ppb	N/A	N/A	N/A	103.162 %
Concentration per Run 2	N/A	N/A	0.149 ppb	22.084 ppb	0.240 ppb	N/A	N/A	N/A	100.101 %
Concentration per Run 3	N/A	N/A	0.295 ppb	19.876 ppb	0.257 ppb	N/A	N/A	N/A	95.297 %
Concentration RSD	N/A	N/A	32.6 %	5.7 %	3.9 %	N/A	N/A	N/A	4.0 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.233 ppb	N/A	0.271 ppb	N/A	99.209 %	0.207 ppb	0.210 ppb	98.581 %	N/A
Concentration per Run 1	0.174 ppb	N/A	0.266 ppb	N/A	99.716 %	0.198 ppb	0.219 ppb	99.853 %	N/A
Concentration per Run 2	0.306 ppb	N/A	0.270 ppb	N/A	100.847 %	0.218 ppb	0.195 ppb	100.555 %	N/A
Concentration per Run 3	0.219 ppb	N/A	0.277 ppb	N/A	97.064 %	0.204 ppb	0.218 ppb	95.336 %	N/A
Concentration RSD	28.9 %	N/A	2.0 %	N/A	2.0 %	4.9 %	6.5 %	2.9 %	N/A

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	0.081 ppb	99.977 %	98.953 %	N/A	0.207 ppb
Concentration per Run 1	0.098 ppb	100.215 %	97.768 %	N/A	0.215 ppb
Concentration per Run 2	0.084 ppb	101.357 %	100.493 %	N/A	0.205 ppb
Concentration per Run 3	0.061 ppb	98.358 %	98.599 %	N/A	0.203 ppb
Concentration RSD	23.1 %	1.5 %	1.4 %	N/A	3.2 %

Alpha ICPMSQ Data with SRD

3/6/2024 5:52:11 AM

Analysis index:	5	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	1/100 Cal	Rack	0		
Analysis started at:	3/5/2024 4:46:25 PM	Vial	3		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	100.500 %	99.260 %	0.989 ppb	91.582 ppb	94.018 ppb	3.479 ppb	101.227 ppb	145.494 ppb	104.926 %
Concentration per Run 1	101.547 %	96.300 %	0.966 ppb	98.870 ppb	102.247 ppb	3.648 ppb	112.434 ppb	142.690 ppb	105.377 %
Concentration per Run 2	100.448 %	104.903 %	0.998 ppb	84.490 ppb	94.950 ppb	2.893 ppb	87.319 ppb	159.914 ppb	104.860 %
Concentration per Run 3	99.506 %	96.577 %	1.002 ppb	91.388 ppb	84.857 ppb	3.895 ppb	103.928 ppb	133.880 ppb	104.542 %
Concentration RSD	1.0 %	4.9 %	2.0 %	7.9 %	9.3 %	15.0 %	12.6 %	9.1 %	0.4 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	1.019 ppb	0.992 ppb	1.045 ppb	101.560 ppb	0.999 ppb	0.982 ppb	1.019 ppb	1.156 ppb	105.628 %
Concentration per Run 1	1.094 ppb	0.916 ppb	1.035 ppb	94.299 ppb	0.983 ppb	0.925 ppb	0.997 ppb	1.075 ppb	114.239 %
Concentration per Run 2	1.032 ppb	1.020 ppb	1.143 ppb	101.826 ppb	0.990 ppb	1.164 ppb	0.993 ppb	1.189 ppb	99.015 %
Concentration per Run 3	0.932 ppb	1.041 ppb	0.956 ppb	108.556 ppb	1.023 ppb	0.857 ppb	1.067 ppb	1.203 ppb	103.631 %
Concentration RSD	8.0 %	6.7 %	9.0 %	7.0 %	2.1 %	16.4 %	4.1 %	6.1 %	7.4 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.947 ppb	1.159 ppb	1.008 ppb	0.878 ppb	103.289 %	0.971 ppb	0.956 ppb	104.239 %	0.916 ppb
Concentration per Run 1	0.958 ppb	0.877 ppb	0.992 ppb	0.773 ppb	108.084 %	0.978 ppb	0.972 ppb	108.776 %	0.927 ppb
Concentration per Run 2	0.929 ppb	1.212 ppb	1.042 ppb	0.925 ppb	100.395 %	0.984 ppb	0.938 ppb	101.493 %	0.935 ppb
Concentration per Run 3	0.955 ppb	1.388 ppb	0.991 ppb	0.934 ppb	101.387 %	0.951 ppb	0.957 ppb	102.446 %	0.886 ppb
Concentration RSD	1.7 %	22.4 %	2.9 %	10.3 %	4.0 %	1.8 %	1.7 %	3.8 %	2.9 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	0.824 ppb	104.853 %	104.466 %	0.840 ppb	0.958 ppb
Concentration per Run 1	0.701 ppb	110.389 %	110.175 %	0.784 ppb	0.931 ppb
Concentration per Run 2	0.982 ppb	103.132 %	100.403 %	0.872 ppb	0.988 ppb
Concentration per Run 3	0.789 ppb	101.037 %	102.820 %	0.864 ppb	0.954 ppb
Concentration RSD	17.5 %	4.7 %	4.9 %	5.8 %	3.0 %

Alpha ICPMSQ Data with SRD

3/6/2024 5:52:11 AM

Analysis index:	6	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	10/1000 Cal	Rack	0		
Analysis started at:	3/5/2024 4:51:03 PM	Vial	4		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	92.595 %	100.277 %	11.491 ppb	1,008.779 ppb	1,029.527 ppb	10.755 ppb	1,042.573 ppb	1,101.378 ppb	98.390 %
Concentration per Run 1	90.819 %	101.573 %	11.787 ppb	990.935 ppb	1,004.227 ppb	11.666 ppb	1,039.366 ppb	1,160.151 ppb	96.794 %
Concentration per Run 2	93.074 %	101.295 %	11.473 ppb	975.675 ppb	999.864 ppb	11.566 ppb	1,027.222 ppb	1,031.370 ppb	100.711 %
Concentration per Run 3	93.893 %	97.965 %	11.214 ppb	1,059.727 ppb	1,084.490 ppb	9.033 ppb	1,061.131 ppb	1,112.615 ppb	97.665 %
Concentration RSD	1.7 %	2.0 %	2.5 %	4.4 %	4.6 %	13.9 %	1.6 %	5.9 %	2.1 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	10.332 ppb	10.500 ppb	10.531 ppb	1,028.112 ppb	10.511 ppb	10.415 ppb	10.554 ppb	10.514 ppb	103.619 %
Concentration per Run 1	10.293 ppb	10.452 ppb	10.448 ppb	1,031.094 ppb	10.468 ppb	10.466 ppb	10.614 ppb	10.940 ppb	102.128 %
Concentration per Run 2	9.874 ppb	10.190 ppb	10.699 ppb	1,006.110 ppb	10.249 ppb	10.254 ppb	10.441 ppb	10.572 ppb	105.393 %
Concentration per Run 3	10.827 ppb	10.858 ppb	10.446 ppb	1,047.134 ppb	10.815 ppb	10.526 ppb	10.607 ppb	10.029 ppb	103.337 %
Concentration RSD	4.6 %	3.2 %	1.4 %	2.0 %	2.7 %	1.4 %	0.9 %	4.4 %	1.6 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	10.466 ppb	11.035 ppb	10.382 ppb	9.437 ppb	100.742 %	10.250 ppb	10.250 ppb	100.133 %	9.695 ppb
Concentration per Run 1	10.490 ppb	11.642 ppb	10.673 ppb	9.126 ppb	100.483 %	10.308 ppb	10.648 ppb	96.762 %	10.029 ppb
Concentration per Run 2	10.411 ppb	9.736 ppb	10.213 ppb	9.560 ppb	100.493 %	10.225 ppb	10.029 ppb	103.609 %	9.327 ppb
Concentration per Run 3	10.497 ppb	11.728 ppb	10.259 ppb	9.625 ppb	101.252 %	10.219 ppb	10.072 ppb	100.030 %	9.729 ppb
Concentration RSD	0.5 %	10.2 %	2.4 %	2.9 %	0.4 %	0.5 %	3.4 %	3.4 %	3.6 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	10.079 ppb	103.698 %	102.236 %	9.339 ppb	9.978 ppb
Concentration per Run 1	10.197 ppb	102.460 %	100.148 %	9.269 ppb	10.134 ppb
Concentration per Run 2	9.791 ppb	103.143 %	102.464 %	9.352 ppb	10.012 ppb
Concentration per Run 3	10.251 ppb	105.489 %	104.097 %	9.397 ppb	9.787 ppb
Concentration RSD	2.5 %	1.5 %	1.9 %	0.7 %	1.8 %

Alpha ICPMSQ Data with SRD

3/6/2024 5:52:11 AM

Analysis index:	7	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	60/6000 Cal	Rack	0		
Analysis started at:	3/5/2024 4:55:41 PM	Vial	5		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	98.146 %	99.167 %	60.814 ppb	5,940.484 ppb	5,979.645 ppb	58.744 ppb	6,136.186 ppb	6,177.609 ppb	109.335 %
Concentration per Run 1	99.017 %	101.850 %	61.040 ppb	5,931.231 ppb	5,981.759 ppb	58.393 ppb	6,240.314 ppb	6,088.075 ppb	110.086 %
Concentration per Run 2	98.784 %	101.018 %	60.684 ppb	5,604.883 ppb	5,653.952 ppb	57.322 ppb	5,730.427 ppb	5,927.492 ppb	109.948 %
Concentration per Run 3	96.637 %	94.635 %	60.720 ppb	6,285.338 ppb	6,303.224 ppb	60.516 ppb	6,437.817 ppb	6,517.259 ppb	107.969 %
Concentration RSD	1.3 %	4.0 %	0.3 %	5.7 %	5.4 %	2.8 %	5.9 %	4.9 %	1.1 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	60.879 ppb	61.259 ppb	62.763 ppb	6,214.690 ppb	62.595 ppb	63.094 ppb	63.460 ppb	63.195 ppb	97.493 %
Concentration per Run 1	60.793 ppb	61.488 ppb	62.193 ppb	6,098.031 ppb	61.423 ppb	61.474 ppb	61.646 ppb	62.510 ppb	99.436 %
Concentration per Run 2	58.725 ppb	60.035 ppb	61.159 ppb	6,153.055 ppb	62.130 ppb	62.938 ppb	64.548 ppb	61.927 ppb	95.841 %
Concentration per Run 3	63.119 ppb	62.255 ppb	64.936 ppb	6,392.983 ppb	64.232 ppb	64.871 ppb	64.186 ppb	65.147 ppb	97.201 %
Concentration RSD	3.6 %	1.8 %	3.1 %	2.5 %	2.3 %	2.7 %	2.5 %	2.7 %	1.9 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	62.771 ppb	64.459 ppb	62.898 ppb	60.657 ppb	96.460 %	61.877 ppb	61.769 ppb	95.523 %	60.520 ppb
Concentration per Run 1	61.584 ppb	66.968 ppb	62.547 ppb	58.840 ppb	99.126 %	60.912 ppb	60.821 ppb	98.792 %	59.738 ppb
Concentration per Run 2	60.916 ppb	59.305 ppb	61.041 ppb	60.017 ppb	95.399 %	61.846 ppb	61.257 ppb	92.185 %	61.232 ppb
Concentration per Run 3	65.812 ppb	67.104 ppb	65.105 ppb	63.115 ppb	94.855 %	62.874 ppb	63.229 ppb	95.591 %	60.591 ppb
Concentration RSD	4.2 %	6.9 %	3.3 %	3.6 %	2.4 %	1.6 %	2.1 %	3.5 %	1.2 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	61.839 ppb	99.960 %	100.373 %	59.834 ppb	60.113 ppb
Concentration per Run 1	60.128 ppb	101.693 %	102.789 %	59.020 ppb	59.055 ppb
Concentration per Run 2	61.282 ppb	98.617 %	99.354 %	57.527 ppb	59.805 ppb
Concentration per Run 3	64.109 ppb	99.571 %	98.974 %	62.955 ppb	61.480 ppb
Concentration RSD	3.3 %	1.6 %	2.1 %	4.7 %	2.1 %

Alpha ICPMSQ Data with SRD

3/6/2024 5:52:11 AM

Analysis index:	8	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	120/12000 Cal	Rack	0		
Analysis started at:	3/5/2024 5:00:20 PM	Vial	6		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	94.093 %	91.397 %	119.469 ppb	12,029.096 ppb	12,007.770 ppb	120.545 ppb	11,928.349 ppb	11,902.368 ppb	115.646 %
Concentration per Run 1	95.701 %	85.199 %	119.103 ppb	12,629.549 ppb	12,473.469 ppb	125.907 ppb	12,130.943 ppb	12,222.071 ppb	116.137 %
Concentration per Run 2	93.329 %	99.907 %	120.261 ppb	11,175.531 ppb	11,267.692 ppb	108.793 ppb	11,261.825 ppb	11,252.955 ppb	114.781 %
Concentration per Run 3	93.248 %	89.084 %	119.042 ppb	12,282.209 ppb	12,282.147 ppb	126.934 ppb	12,392.279 ppb	12,232.079 ppb	116.021 %
Concentration RSD	1.5 %	8.3 %	0.6 %	6.3 %	5.4 %	8.5 %	5.0 %	4.7 %	0.7 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	119.533 ppb	119.329 ppb	118.574 ppb	11,890.298 ppb	118.660 ppb	118.418 ppb	118.224 ppb	118.359 ppb	98.912 %
Concentration per Run 1	120.693 ppb	120.998 ppb	121.132 ppb	12,016.679 ppb	121.021 ppb	121.763 ppb	121.495 ppb	121.750 ppb	99.181 %
Concentration per Run 2	117.115 ppb	116.245 ppb	114.266 ppb	11,605.326 ppb	114.936 ppb	114.211 ppb	116.177 ppb	115.112 ppb	96.852 %
Concentration per Run 3	120.789 ppb	120.743 ppb	120.325 ppb	12,048.889 ppb	120.023 ppb	119.281 ppb	117.000 ppb	118.215 ppb	100.704 %
Concentration RSD	1.8 %	2.2 %	3.2 %	2.1 %	2.8 %	3.3 %	2.4 %	2.8 %	2.0 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	118.576 ppb	117.683 ppb	118.519 ppb	119.719 ppb	95.194 %	119.041 ppb	119.095 ppb	92.795 %	119.766 ppb
Concentration per Run 1	118.605 ppb	113.757 ppb	115.263 ppb	115.263 ppb	94.153 %	119.604 ppb	119.058 ppb	91.795 %	117.482 ppb
Concentration per Run 2	121.192 ppb	118.371 ppb	120.737 ppb	120.825 ppb	94.234 %	120.422 ppb	121.008 ppb	91.159 %	122.826 ppb
Concentration per Run 3	115.931 ppb	120.921 ppb	119.557 ppb	123.071 ppb	97.194 %	117.096 ppb	117.220 ppb	95.432 %	118.990 ppb
Concentration RSD	2.2 %	3.1 %	2.4 %	3.4 %	1.8 %	1.5 %	1.6 %	2.5 %	2.3 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	119.075 ppb	100.233 %	99.690 %	120.139 ppb	119.946 ppb
Concentration per Run 1	114.193 ppb	99.119 %	99.143 %	119.494 ppb	119.526 ppb
Concentration per Run 2	121.275 ppb	100.162 %	98.733 %	119.991 ppb	120.241 ppb
Concentration per Run 3	121.758 ppb	101.419 %	101.193 %	120.932 ppb	120.069 ppb
Concentration RSD	3.6 %	1.1 %	1.3 %	0.6 %	0.3 %

Alpha ICPMSQ Data with SRD

3/6/2024 5:52:11 AM

Analysis index: 9
Analysis label: Sr 200ppb
Analysis started at: 3/5/2024 5:05:00 PM
User name ALPHALAB\Metals-Instrument
Rack 4
Vial 55
Comment Sr Inteference Check

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	95.837 %	96.115 %	0.006 ppb	-1.903 ppb	0.483 ppb	0.619 ppb	1.591 ppb	-0.744 ppb	99.047 %
Concentration per Run 1	96.548 %	91.582 %	0.009 ppb	-2.160 ppb	-0.276 ppb	0.984 ppb	1.188 ppb	51.400 ppb	99.427 %
Concentration per Run 2	97.850 %	98.520 %	0.006 ppb	-3.672 ppb	1.805 ppb	0.220 ppb	-0.581 ppb	6.731 ppb	101.561 %
Concentration per Run 3	93.113 %	98.242 %	0.003 ppb	0.123 ppb	-0.079 ppb	0.651 ppb	4.167 ppb	-60.363 ppb	96.153 %
Concentration RSD	2.6 %	4.1 %	49.4 %	100.4 %	237.8 %	61.9 %	150.8 %	7,560.5 %	2.8 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.015 ppb	0.043 ppb	0.088 ppb	19.859 ppb	0.002 ppb	0.183 ppb	0.056 ppb	0.645 ppb	99.938 %
Concentration per Run 1	0.001 ppb	0.054 ppb	0.129 ppb	17.130 ppb	0.006 ppb	0.193 ppb	0.067 ppb	0.639 ppb	94.643 %
Concentration per Run 2	0.017 ppb	0.028 ppb	0.051 ppb	23.436 ppb	-0.001 ppb	0.118 ppb	0.065 ppb	0.696 ppb	104.277 %
Concentration per Run 3	0.027 ppb	0.047 ppb	0.085 ppb	19.012 ppb	-0.001 ppb	0.237 ppb	0.036 ppb	0.599 ppb	100.893 %
Concentration RSD	88.2 %	31.2 %	44.1 %	16.3 %	254.7 %	32.9 %	30.6 %	7.6 %	4.9 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.064 ppb	0.587 ppb	195.211 ppb	1.368 ppb	98.757 %	0.011 ppb	0.006 ppb	94.333 %	0.004 ppb
Concentration per Run 1	0.053 ppb	0.684 ppb	192.643 ppb	1.414 ppb	98.992 %	0.010 ppb	0.003 ppb	92.706 %	-0.012 ppb
Concentration per Run 2	0.049 ppb	0.425 ppb	194.181 ppb	1.359 ppb	98.798 %	0.016 ppb	0.010 ppb	94.450 %	-0.001 ppb
Concentration per Run 3	0.089 ppb	0.654 ppb	198.807 ppb	1.332 ppb	98.481 %	0.007 ppb	0.004 ppb	95.844 %	0.024 ppb
Concentration RSD	34.6 %	24.1 %	1.6 %	3.1 %	0.3 %	42.3 %	66.1 %	1.7 %	523.5 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	-0.092 ppb	99.867 %	98.060 %	0.673 ppb	0.027 ppb
Concentration per Run 1	-0.091 ppb	98.633 %	95.476 %	0.597 ppb	0.037 ppb
Concentration per Run 2	-0.105 ppb	102.321 %	99.629 %	0.783 ppb	0.026 ppb
Concentration per Run 3	-0.079 ppb	98.646 %	99.074 %	0.641 ppb	0.019 ppb
Concentration RSD	14.0 %	2.1 %	2.3 %	14.4 %	34.6 %

Alpha ICPMSQ Data with SRD

3/6/2024 5:52:11 AM

Analysis index:	10	User name	ALPHALAB\Metals-Instrument	Comment	ICV
Analysis label:	ICV	Rack	0		
Analysis started at:	3/5/2024 5:09:41 PM	Vial	7		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	98.132 %	105.365 %	51.111 ppb	4,844.248 ppb	4,827.250 ppb	50.757 ppb	4,979.187 ppb	5,088.495 ppb	105.371 %
Concentration per Run 1	100.083 %	96.855 %	51.215 ppb	5,175.949 ppb	5,157.890 ppb	54.061 ppb	5,163.170 ppb	5,194.871 ppb	106.733 %
Concentration per Run 2	98.830 %	103.515 %	51.064 ppb	4,876.749 ppb	4,886.507 ppb	49.200 ppb	5,105.698 ppb	5,181.130 ppb	105.967 %
Concentration per Run 3	95.481 %	115.726 %	51.052 ppb	4,480.047 ppb	4,437.354 ppb	49.010 ppb	4,668.692 ppb	4,889.484 ppb	103.413 %
Recovery Percentage 1			102.221 %	96.885 %	96.545 %	101.514 %	99.584 %	101.770 %	
Concentration RSD	2.4 %	9.1 %	0.2 %	7.2 %	7.5 %	5.6 %	5.4 %	3.4 %	1.6 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	50.643 ppb	50.178 ppb	51.222 ppb	5,043.758 ppb	50.856 ppb	50.998 ppb	51.925 ppb	52.916 ppb	100.981 %
Concentration per Run 1	50.613 ppb	50.452 ppb	50.849 ppb	4,984.245 ppb	50.063 ppb	49.970 ppb	51.939 ppb	51.576 ppb	105.413 %
Concentration per Run 2	52.024 ppb	50.317 ppb	50.991 ppb	5,070.119 ppb	51.335 ppb	51.494 ppb	52.281 ppb	54.611 ppb	99.750 %
Concentration per Run 3	49.292 ppb	49.766 ppb	51.825 ppb	5,076.910 ppb	51.168 ppb	51.531 ppb	51.555 ppb	52.560 ppb	97.779 %
Recovery Percentage 1	101.286 %	100.356 %	102.443 %	100.875 %	101.711 %	101.996 %	103.851 %	105.831 %	
Concentration RSD	2.7 %	0.7 %	1.0 %	1.0 %	1.4 %	1.7 %	0.7 %	2.9 %	3.9 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	52.465 ppb	53.749 ppb	51.486 ppb	49.731 ppb	97.464 %	50.561 ppb	51.096 ppb	97.159 %	49.957 ppb
Concentration per Run 1	51.239 ppb	50.926 ppb	49.683 ppb	47.106 ppb	98.993 %	50.187 ppb	50.380 ppb	97.387 %	50.650 ppb
Concentration per Run 2	53.136 ppb	52.224 ppb	51.896 ppb	50.390 ppb	97.209 %	50.487 ppb	51.114 ppb	98.428 %	48.999 ppb
Concentration per Run 3	53.020 ppb	58.099 ppb	52.879 ppb	51.697 ppb	96.189 %	51.011 ppb	51.794 ppb	95.661 %	50.222 ppb
Recovery Percentage 1	104.930 %	107.499 %	102.972 %	99.462 %		101.123 %	102.192 %		99.914 %
Concentration RSD	2.0 %	7.1 %	3.2 %	4.8 %	1.5 %	0.8 %	1.4 %	1.4 %	1.7 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	50.335 ppb	102.560 %	101.243 %	48.829 ppb	51.676 ppb
Concentration per Run 1	52.896 ppb	103.298 %	102.015 %	47.305 ppb	51.410 ppb
Concentration per Run 2	48.241 ppb	103.026 %	102.425 %	48.486 ppb	51.229 ppb
Concentration per Run 3	49.868 ppb	101.356 %	99.289 %	50.696 ppb	52.389 ppb
Recovery Percentage 1	100.670 %			97.658 %	103.352 %
Concentration RSD	4.7 %	1.0 %	1.7 %	3.5 %	1.2 %

Alpha ICPMSQ Data with SRD

3/6/2024 5:52:11 AM

Analysis index: 11 User name ALPHALAB\Metals-Instrument Comment ICB
Analysis label: ICB Rack 0
Analysis started at: 3/5/2024 5:14:21 PM Vial 10

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	98.223 %	106.476 %	0.013 ppb	-9.239 ppb	-0.327 ppb	-0.421 ppb	-3.726 ppb	-1.795 ppb	99.276 %
Concentration per Run 1	99.884 %	104.625 %	0.008 ppb	-7.483 ppb	0.387 ppb	-0.312 ppb	-4.949 ppb	-1.180 ppb	100.856 %
Concentration per Run 2	98.351 %	108.233 %	0.017 ppb	-9.664 ppb	-0.947 ppb	-0.432 ppb	-5.228 ppb	-2.955 ppb	99.055 %
Concentration per Run 3	96.435 %	106.568 %	0.014 ppb	-10.569 ppb	-0.420 ppb	-0.519 ppb	-1.001 ppb	-1.251 ppb	97.918 %
Recovery Percentage 1			2.610 %	-9.239 %	-0.467 %	-4.209 %	-3.726 %	-1.795 %	
Concentration RSD	1.8 %	1.7 %	36.3 %	17.2 %	205.5 %	24.8 %	63.4 %	56.0 %	1.5 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.029 ppb	-0.003 ppb	-0.012 ppb	8.934 ppb	0.001 ppb	0.002 ppb	-0.043 ppb	0.108 ppb	102.710 %
Concentration per Run 1	0.035 ppb	-0.002 ppb	-0.012 ppb	8.435 ppb	0.001 ppb	-0.006 ppb	-0.047 ppb	0.108 ppb	99.933 %
Concentration per Run 2	0.008 ppb	-0.011 ppb	-0.013 ppb	8.734 ppb	0.001 ppb	0.005 ppb	-0.050 ppb	0.099 ppb	106.284 %
Concentration per Run 3	0.043 ppb	0.006 ppb	-0.012 ppb	9.634 ppb	-0.001 ppb	0.008 ppb	-0.034 ppb	0.117 ppb	101.914 %
Recovery Percentage 1	0.572 %	-0.251 %	-1.233 %	17.869 %	0.134 %	0.111 %	-4.345 %	2.157 %	
Concentration RSD	64.2 %	337.9 %	6.8 %	7.0 %	184.5 %	326.1 %	20.2 %	8.5 %	3.2 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.057 ppb	0.278 ppb	-0.007 ppb	0.823 ppb	98.706 %	0.004 ppb	0.003 ppb	96.723 %	0.017 ppb
Concentration per Run 1	0.037 ppb	0.434 ppb	-0.006 ppb	0.862 ppb	97.897 %	0.005 ppb	0.009 ppb	98.141 %	0.011 ppb
Concentration per Run 2	0.053 ppb	0.029 ppb	-0.006 ppb	0.735 ppb	98.897 %	0.003 ppb	0.001 ppb	96.591 %	0.011 ppb
Concentration per Run 3	0.081 ppb	0.371 ppb	-0.009 ppb	0.873 ppb	99.322 %	0.004 ppb	0.000 ppb	95.438 %	0.028 ppb
Recovery Percentage 1	11.402 %	5.567 %	-0.069 %	41.163 %		1.000 %	1.679 %		0.422 %
Concentration RSD	38.6 %	78.3 %	20.9 %	9.3 %	0.7 %	32.2 %	137.6 %	1.4 %	56.3 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	-0.113 ppb	101.033 %	100.834 %	0.439 ppb	0.031 ppb
Concentration per Run 1	-0.111 ppb	99.842 %	100.119 %	0.360 ppb	0.036 ppb
Concentration per Run 2	-0.105 ppb	100.878 %	100.283 %	0.522 ppb	0.027 ppb
Concentration per Run 3	-0.123 ppb	102.379 %	102.100 %	0.433 ppb	0.030 ppb
Recovery Percentage 1	-22.597 %			43.864 %	3.078 %
Concentration RSD	8.4 %	1.3 %	1.1 %	18.4 %	14.8 %

Alpha ICPMSQ Data with SRD

3/6/2024 5:52:11 AM

Analysis index:	12	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	ICSA	Rack	4		
Analysis started at:	3/5/2024 5:25:04 PM	Vial	53		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	89.480 %	95.745 %	0.013 ppb	50,363.875 ppb	19,283.097 ppb	19,328.967 ppb	19,153.365 ppb	58,089.387 ppb	103.203 %
Concentration per Run 1	90.586 %	85.754 %	0.015 ppb	53,240.363 ppb	20,242.083 ppb	20,134.156 ppb	19,988.171 ppb	60,205.564 ppb	104.220 %
Concentration per Run 2	89.922 %	96.022 %	0.014 ppb	50,673.203 ppb	19,730.335 ppb	19,775.010 ppb	19,217.135 ppb	57,965.518 ppb	103.195 %
Concentration per Run 3	87.932 %	105.458 %	0.009 ppb	47,178.058 ppb	17,876.874 ppb	18,077.735 ppb	18,254.789 ppb	56,097.078 ppb	102.193 %
Recovery Percentage 1			2.524 %	100.728 %	96.415 %	96.645 %	95.767 %	96.816 %	
Concentration RSD	1.5 %	10.3 %	22.6 %	6.0 %	6.5 %	5.7 %	4.5 %	3.5 %	1.0 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.031 ppb	0.311 ppb	1.127 ppb	48,193.407 ppb	0.453 ppb	0.632 ppb	0.200 ppb	1.540 ppb	96.069 %
Concentration per Run 1	0.021 ppb	0.289 ppb	1.159 ppb	50,395.447 ppb	0.501 ppb	0.768 ppb	0.198 ppb	1.654 ppb	91.454 %
Concentration per Run 2	0.037 ppb	0.363 ppb	1.374 ppb	48,148.669 ppb	0.414 ppb	0.539 ppb	0.214 ppb	1.480 ppb	97.000 %
Concentration per Run 3	0.035 ppb	0.280 ppb	0.848 ppb	46,036.104 ppb	0.445 ppb	0.590 ppb	0.188 ppb	1.485 ppb	99.753 %
Recovery Percentage 1	1.245 %	31.102 %	112.726 %	96.387 %	90.695 %	31.623 %	20.004 %	30.795 %	
Concentration RSD	28.2 %	14.7 %	23.5 %	4.5 %	9.7 %	19.0 %	6.6 %	6.5 %	4.4 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.131 ppb	0.767 ppb	0.518 ppb	410.734 ppb	89.575 %	0.008 ppb	0.068 ppb	88.804 %	-0.009 ppb
Concentration per Run 1	0.130 ppb	0.857 ppb	0.515 ppb	408.343 ppb	87.010 %	0.011 ppb	0.076 ppb	83.851 %	-0.002 ppb
Concentration per Run 2	0.160 ppb	0.688 ppb	0.524 ppb	410.957 ppb	90.019 %	0.004 ppb	0.065 ppb	91.066 %	-0.007 ppb
Concentration per Run 3	0.104 ppb	0.755 ppb	0.514 ppb	412.901 ppb	91.695 %	0.008 ppb	0.062 ppb	91.496 %	-0.019 ppb
Recovery Percentage 1	26.277 %	15.342 %	103.526 %	102.683 %		1.895 %	33.877 %		-0.234 %
Concentration RSD	21.6 %	11.1 %	1.0 %	0.6 %	2.6 %	40.8 %	11.4 %	4.8 %	94.8 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	0.128 ppb	99.661 %	99.931 %	0.069 ppb	0.398 ppb
Concentration per Run 1	0.096 ppb	95.734 %	94.431 %	0.049 ppb	0.419 ppb
Concentration per Run 2	0.112 ppb	102.309 %	102.193 %	0.085 ppb	0.394 ppb
Concentration per Run 3	0.177 ppb	100.939 %	103.168 %	0.071 ppb	0.381 ppb
Recovery Percentage 1	25.696 %			6.856 %	39.809 %
Concentration RSD	33.3 %	3.5 %	4.8 %	26.8 %	4.8 %

Alpha ICPMSQ Data with SRD

3/6/2024 5:52:11 AM

Analysis index:	13	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	LDR Check (ICSA 10x)	Rack	4		
Analysis started at:	3/5/2024 5:29:46 PM	Vial	60		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	81.144 %	88.529 %	0.032 ppb	261,368.723 ppb	103,789.224 ppb	98,450.329 ppb	98,400.513 ppb	291,894.235 ppb	103.057 %
Concentration per Run 1	81.971 %	92.969 %	0.024 ppb	235,278.295 ppb	94,237.323 ppb	89,949.424 ppb	89,081.585 ppb	273,045.963 ppb	102.244 %
Concentration per Run 2	81.128 %	86.586 %	0.026 ppb	278,202.444 ppb	108,081.636 ppb	99,497.062 ppb	105,691.883 ppb	302,604.256 ppb	104.330 %
Concentration per Run 3	80.332 %	86.031 %	0.047 ppb	270,625.431 ppb	109,048.713 ppb	105,904.501 ppb	100,428.070 ppb	300,032.485 ppb	102.597 %
Concentration RSD	1.0 %	4.4 %	39.7 %	8.8 %	8.0 %	8.2 %	8.6 %	5.6 %	1.1 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.116 ppb	1.476 ppb	4.444 ppb	243,986.207 ppb	2.034 ppb	2.629 ppb	0.941 ppb	2.801 ppb	102.554 %
Concentration per Run 1	0.064 ppb	1.360 ppb	4.206 ppb	233,976.198 ppb	1.908 ppb	2.585 ppb	0.952 ppb	2.675 ppb	99.889 %
Concentration per Run 2	0.202 ppb	1.526 ppb	4.681 ppb	248,933.997 ppb	2.126 ppb	2.556 ppb	1.031 ppb	2.899 ppb	102.926 %
Concentration per Run 3	0.082 ppb	1.540 ppb	4.444 ppb	249,048.426 ppb	2.067 ppb	2.746 ppb	0.840 ppb	2.828 ppb	104.847 %
Concentration RSD	64.5 %	6.8 %	5.3 %	3.6 %	5.6 %	3.9 %	10.2 %	4.1 %	2.4 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.436 ppb	3.832 ppb	2.363 ppb	2,341.602 ppb	84.255 %	0.021 ppb	0.345 ppb	87.804 %	0.119 ppb
Concentration per Run 1	0.467 ppb	3.960 ppb	2.248 ppb	2,244.561 ppb	82.710 %	0.023 ppb	0.357 ppb	83.678 %	0.110 ppb
Concentration per Run 2	0.393 ppb	3.588 ppb	2.443 ppb	2,404.766 ppb	83.056 %	0.023 ppb	0.329 ppb	88.851 %	0.114 ppb
Concentration per Run 3	0.448 ppb	3.948 ppb	2.399 ppb	2,375.479 ppb	87.000 %	0.016 ppb	0.349 ppb	90.882 %	0.133 ppb
Concentration RSD	8.9 %	5.5 %	4.3 %	3.6 %	2.8 %	20.6 %	4.1 %	4.2 %	10.1 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	1.173 ppb	97.333 %	97.365 %	0.048 ppb	1.459 ppb
Concentration per Run 1	1.256 ppb	93.810 %	93.890 %	0.019 ppb	1.458 ppb
Concentration per Run 2	1.086 ppb	96.163 %	98.269 %	0.062 ppb	1.450 ppb
Concentration per Run 3	1.177 ppb	102.026 %	99.937 %	0.064 ppb	1.470 ppb
Concentration RSD	7.2 %	4.3 %	3.2 %	52.6 %	0.7 %

Alpha ICPMSQ Data with SRD

3/6/2024 5:52:11 AM

Analysis index:	14	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	LDR Check 10PPM	Rack	4		
Analysis started at:	3/5/2024 5:34:28 PM	Vial	1		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	116.073 %	139.408 %	0.006 ppb	10.451 ppb	2.195 ppb	2.157 ppb	10.932 ppb	8.835 ppb	136.670 %
Concentration per Run 1	117.875 %	134.321 %	-0.001 ppb	16.441 ppb	1.437 ppb	2.158 ppb	15.651 ppb	10.251 ppb	137.101 %
Concentration per Run 2	115.992 %	139.593 %	0.009 ppb	9.799 ppb	1.643 ppb	2.174 ppb	4.380 ppb	5.176 ppb	137.596 %
Concentration per Run 3	114.352 %	144.311 %	0.012 ppb	5.113 ppb	3.504 ppb	2.138 ppb	12.764 ppb	11.079 ppb	135.312 %
Concentration RSD	1.5 %	3.6 %	107.7 %	54.5 %	51.9 %	0.8 %	53.6 %	36.2 %	0.9 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.000 ppb	0.031 ppb	10,015.194 ppb	71.675 ppb	0.175 ppb	0.262 ppb	10,442.031 ppb	10,002.245 ppb	134.539 %
Concentration per Run 1	0.012 ppb	0.031 ppb	9,787.989 ppb	74.022 ppb	0.205 ppb	0.229 ppb	10,678.210 ppb	10,226.073 ppb	123.975 %
Concentration per Run 2	-0.002 ppb	0.030 ppb	9,868.549 ppb	64.206 ppb	0.153 ppb	0.213 ppb	9,910.246 ppb	9,614.522 ppb	142.457 %
Concentration per Run 3	-0.009 ppb	0.033 ppb	10,389.042 ppb	76.798 ppb	0.169 ppb	0.345 ppb	10,737.636 ppb	10,166.138 ppb	137.185 %
Concentration RSD	3,439.7 %	4.5 %	3.3 %	9.2 %	15.3 %	27.5 %	4.4 %	3.4 %	7.1 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.024 ppb	0.117 ppb	0.210 ppb	9.308 ppb	131.064 %	0.037 ppb	0.023 ppb	124.797 %	-0.074 ppb
Concentration per Run 1	0.033 ppb	0.112 ppb	0.214 ppb	9.312 ppb	123.512 %	0.045 ppb	0.025 ppb	115.030 %	-0.087 ppb
Concentration per Run 2	0.000 ppb	0.094 ppb	0.201 ppb	9.052 ppb	135.525 %	0.033 ppb	0.017 ppb	128.886 %	-0.069 ppb
Concentration per Run 3	0.039 ppb	0.145 ppb	0.215 ppb	9.559 ppb	134.156 %	0.034 ppb	0.028 ppb	130.476 %	-0.067 ppb
Concentration RSD	88.1 %	22.1 %	3.8 %	2.7 %	5.0 %	18.2 %	23.6 %	6.8 %	15.3 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	10,167.926 ppb	125.360 %	120.478 %	0.021 ppb	10,055.172 ppb
Concentration per Run 1	10,515.931 ppb	118.826 %	111.558 %	0.005 ppb	10,796.824 ppb
Concentration per Run 2	9,907.341 ppb	127.021 %	124.506 %	0.032 ppb	9,665.321 ppb
Concentration per Run 3	10,080.507 ppb	130.231 %	125.369 %	0.026 ppb	9,703.372 ppb
Concentration RSD	3.1 %	4.7 %	6.4 %	66.7 %	6.4 %

Alpha ICPMSQ Data with SRD

3/6/2024 5:52:11 AM

Analysis index:	15	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	Rinse	Rack	0		
Analysis started at:	3/5/2024 5:39:26 PM	Vial	1		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	110.765 %	135.708 %	0.013 ppb	11.927 ppb	2.611 ppb	1.833 ppb	20.561 ppb	14.023 ppb	126.784 %
Concentration per Run 1	112.244 %	142.646 %	0.002 ppb	10.641 ppb	2.873 ppb	2.169 ppb	17.271 ppb	14.864 ppb	127.430 %
Concentration per Run 2	110.504 %	135.708 %	0.014 ppb	13.004 ppb	3.013 ppb	1.331 ppb	17.226 ppb	15.220 ppb	126.639 %
Concentration per Run 3	109.546 %	128.770 %	0.023 ppb	12.137 ppb	1.946 ppb	1.998 ppb	27.186 ppb	11.985 ppb	126.283 %
Concentration RSD	1.2 %	5.1 %	82.7 %	10.0 %	22.2 %	24.2 %	27.9 %	12.7 %	0.5 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.002 ppb	0.066 ppb	0.307 ppb	41.690 ppb	0.008 ppb	0.179 ppb	0.358 ppb	3.614 ppb	126.367 %
Concentration per Run 1	-0.009 ppb	0.060 ppb	0.303 ppb	42.947 ppb	0.008 ppb	0.205 ppb	0.479 ppb	3.777 ppb	125.463 %
Concentration per Run 2	0.012 ppb	0.067 ppb	0.328 ppb	45.781 ppb	0.008 ppb	0.150 ppb	0.309 ppb	3.705 ppb	128.405 %
Concentration per Run 3	-0.009 ppb	0.072 ppb	0.289 ppb	36.340 ppb	0.010 ppb	0.181 ppb	0.286 ppb	3.360 ppb	125.233 %
Concentration RSD	599.2 %	9.1 %	6.4 %	11.6 %	13.7 %	15.3 %	29.6 %	6.2 %	1.4 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.002 ppb	0.122 ppb	0.021 ppb	2.519 ppb	123.584 %	0.005 ppb	0.002 ppb	115.785 %	-0.052 ppb
Concentration per Run 1	0.034 ppb	0.213 ppb	0.027 ppb	2.356 ppb	124.320 %	0.003 ppb	0.002 ppb	116.186 %	-0.060 ppb
Concentration per Run 2	-0.016 ppb	0.124 ppb	0.009 ppb	2.584 ppb	126.443 %	0.007 ppb	0.004 ppb	117.711 %	-0.046 ppb
Concentration per Run 3	-0.013 ppb	0.028 ppb	0.026 ppb	2.617 ppb	119.988 %	0.005 ppb	0.001 ppb	113.459 %	-0.049 ppb
Concentration RSD	1,838.5 %	76.0 %	48.1 %	5.6 %	2.7 %	39.2 %	48.3 %	1.9 %	14.6 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	0.038 ppb	118.507 %	114.970 %	0.010 ppb	1.113 ppb
Concentration per Run 1	0.058 ppb	119.517 %	115.636 %	-0.010 ppb	1.389 ppb
Concentration per Run 2	0.025 ppb	120.451 %	116.991 %	0.019 ppb	1.056 ppb
Concentration per Run 3	0.031 ppb	115.551 %	112.282 %	0.022 ppb	0.892 ppb
Concentration RSD	45.6 %	2.2 %	2.1 %	172.1 %	22.8 %

Alpha ICPMSQ Data with SRD

3/6/2024 5:52:11 AM

Analysis index: 16
Analysis label: CCV
Analysis started at: 3/5/2024 5:44:03 PM
User name ALPHALAB\Metals-Instrument
Rack 0
Vial 9
Comment CCV/MCCV

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	99.452 %	125.347 %	61.135 ppb	5,846.713 ppb	5,855.847 ppb	58.974 ppb	5,995.168 ppb	5,965.194 ppb	116.780 %
Concentration per Run 1	100.918 %	136.541 %	60.997 ppb	5,677.074 ppb	5,666.861 ppb	57.687 ppb	5,985.287 ppb	5,952.327 ppb	118.324 %
Concentration per Run 2	99.328 %	127.660 %	61.232 ppb	5,625.400 ppb	5,598.154 ppb	54.747 ppb	5,706.264 ppb	5,801.017 ppb	116.772 %
Concentration per Run 3	98.108 %	111.841 %	61.178 ppb	6,237.666 ppb	6,302.525 ppb	64.489 ppb	6,293.953 ppb	6,142.239 ppb	115.244 %
Recovery Percentage 1			101.892 %	97.445 %	97.597 %	98.290 %	99.919 %	99.420 %	
Concentration RSD	1.4 %	10.0 %	0.2 %	5.8 %	6.6 %	8.5 %	4.9 %	2.9 %	1.3 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	58.911 ppb	58.022 ppb	58.786 ppb	6,020.995 ppb	61.526 ppb	62.507 ppb	62.105 ppb	61.539 ppb	121.064 %
Concentration per Run 1	57.992 ppb	57.279 ppb	58.427 ppb	5,939.452 ppb	60.835 ppb	63.622 ppb	62.090 ppb	61.796 ppb	127.248 %
Concentration per Run 2	57.790 ppb	56.474 ppb	57.645 ppb	5,932.863 ppb	61.298 ppb	61.554 ppb	62.359 ppb	60.206 ppb	118.354 %
Concentration per Run 3	60.950 ppb	60.313 ppb	60.285 ppb	6,190.669 ppb	62.443 ppb	62.345 ppb	61.867 ppb	62.616 ppb	117.589 %
Recovery Percentage 1	98.184 %	96.704 %	97.976 %	100.350 %	102.543 %	104.178 %	103.509 %	102.565 %	
Concentration RSD	3.0 %	3.5 %	2.3 %	2.4 %	1.3 %	1.7 %	0.4 %	2.0 %	4.4 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	60.874 ppb	61.743 ppb	58.800 ppb	59.649 ppb	113.906 %	62.099 ppb	61.450 ppb	108.644 %	56.454 ppb
Concentration per Run 1	60.801 ppb	63.088 ppb	59.110 ppb	57.398 ppb	118.170 %	61.268 ppb	58.739 ppb	114.081 %	55.510 ppb
Concentration per Run 2	60.795 ppb	60.240 ppb	56.734 ppb	60.292 ppb	111.408 %	62.998 ppb	63.241 ppb	102.304 %	57.844 ppb
Concentration per Run 3	61.025 ppb	61.902 ppb	60.556 ppb	61.256 ppb	112.140 %	62.031 ppb	62.372 ppb	109.545 %	56.008 ppb
Recovery Percentage 1	101.456 %	102.905 %	98.000 %	99.415 %		103.498 %	102.417 %		94.090 %
Concentration RSD	0.2 %	2.3 %	3.3 %	3.4 %	3.3 %	1.4 %	3.9 %	5.5 %	2.2 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	60.198 ppb	113.081 %	110.436 %	61.650 ppb	61.305 ppb
Concentration per Run 1	59.586 ppb	117.084 %	115.203 %	59.402 ppb	59.601 ppb
Concentration per Run 2	61.283 ppb	109.574 %	104.875 %	63.752 ppb	63.448 ppb
Concentration per Run 3	59.724 ppb	112.583 %	111.229 %	61.796 ppb	60.867 ppb
Recovery Percentage 1	100.329 %			102.750 %	102.176 %
Concentration RSD	1.6 %	3.3 %	4.7 %	3.5 %	3.2 %

Alpha ICPMSQ Data with SRD

3/6/2024 5:52:11 AM

Analysis index:	17	User name	ALPHALAB\Metals-Instrument	Comment	CCB
Analysis label:	CCB	Rack	0		
Analysis started at:	3/5/2024 5:48:44 PM	Vial	10		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	101.528 %	107.586 %	0.009 ppb	-7.354 ppb	-0.710 ppb	-0.468 ppb	-0.873 ppb	5.713 ppb	107.466 %
Concentration per Run 1	99.571 %	110.176 %	0.010 ppb	-7.321 ppb	-0.955 ppb	-0.534 ppb	0.268 ppb	-1.548 ppb	100.789 %
Concentration per Run 2	98.645 %	115.449 %	0.007 ppb	-8.209 ppb	-0.267 ppb	-0.371 ppb	-4.391 ppb	7.060 ppb	101.156 %
Concentration per Run 3	106.367 %	97.132 %	0.011 ppb	-6.532 ppb	-0.907 ppb	-0.500 ppb	1.503 ppb	11.625 ppb	120.455 %
Recovery Percentage 1			1.855 %	-7.354 %	-1.014 %	-4.683 %	-0.873 %	5.713 %	
Concentration RSD	4.2 %	8.8 %	22.2 %	11.4 %	54.1 %	18.4 %	355.9 %	117.1 %	10.5 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.011 ppb	0.022 ppb	0.066 ppb	13.756 ppb	0.003 ppb	0.050 ppb	-0.012 ppb	0.205 ppb	109.048 %
Concentration per Run 1	-0.001 ppb	0.002 ppb	0.046 ppb	17.599 ppb	0.001 ppb	0.053 ppb	0.004 ppb	0.178 ppb	107.577 %
Concentration per Run 2	0.007 ppb	0.033 ppb	0.056 ppb	12.588 ppb	0.005 ppb	0.048 ppb	-0.005 ppb	0.153 ppb	112.459 %
Concentration per Run 3	0.026 ppb	0.030 ppb	0.096 ppb	11.080 ppb	0.001 ppb	0.050 ppb	-0.036 ppb	0.283 ppb	107.109 %
Recovery Percentage 1	0.213 %	2.169 %	6.597 %	27.512 %	0.519 %	2.517 %	-1.237 %	4.096 %	
Concentration RSD	126.4 %	80.0 %	39.9 %	24.8 %	84.6 %	5.4 %	167.6 %	33.6 %	2.7 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.010 ppb	0.262 ppb	-0.002 ppb	1.299 ppb	106.734 %	0.003 ppb	0.001 ppb	99.460 %	0.450 ppb
Concentration per Run 1	-0.035 ppb	0.401 ppb	0.002 ppb	1.205 ppb	104.160 %	0.003 ppb	0.001 ppb	99.071 %	0.455 ppb
Concentration per Run 2	0.023 ppb	0.235 ppb	-0.007 ppb	1.325 ppb	108.927 %	0.002 ppb	0.001 ppb	103.725 %	0.409 ppb
Concentration per Run 3	0.041 ppb	0.151 ppb	-0.001 ppb	1.366 ppb	107.114 %	0.005 ppb	0.001 ppb	95.584 %	0.486 ppb
Recovery Percentage 1	1.916 %	5.250 %	-0.019 %	64.940 %		0.854 %	0.692 %		11.256 %
Concentration RSD	411.4 %	48.4 %	257.7 %	6.5 %	2.3 %	44.1 %	3.1 %	4.1 %	8.6 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	-0.083 ppb	104.947 %	101.961 %	0.357 ppb	0.185 ppb
Concentration per Run 1	-0.081 ppb	102.125 %	100.279 %	0.332 ppb	0.214 ppb
Concentration per Run 2	-0.100 ppb	107.280 %	105.615 %	0.409 ppb	0.170 ppb
Concentration per Run 3	-0.068 ppb	105.435 %	99.990 %	0.330 ppb	0.170 ppb
Recovery Percentage 1	-16.635 %			35.726 %	18.457 %
Concentration RSD	19.4 %	2.5 %	3.1 %	12.6 %	13.9 %

Alpha ICPMSQ Data with SRD

3/6/2024 5:52:11 AM

Analysis index:	18	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	I2410744-01 6020SL	Rack	1		
Analysis started at:	3/5/2024 6:17:13 PM	Vial	32		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	106.901 %	113.506 %	0.003 ppb	81,085.615 ppb	36,237.489 ppb	3.612 ppb	3,339.037 ppb	20,854.726 ppb	118.782 %
Concentration per Run 1	109.080 %	111.286 %	-0.001 ppb	82,390.731 ppb	36,537.346 ppb	3.834 ppb	3,407.667 ppb	21,307.509 ppb	120.272 %
Concentration per Run 2	107.076 %	115.171 %	0.008 ppb	79,290.718 ppb	35,952.814 ppb	3.354 ppb	3,184.059 ppb	20,284.438 ppb	119.332 %
Concentration per Run 3	104.546 %	114.061 %	0.002 ppb	81,575.397 ppb	36,222.306 ppb	3.648 ppb	3,425.385 ppb	20,972.232 ppb	116.742 %
Concentration RSD	2.1 %	1.8 %	182.0 %	2.0 %	0.8 %	6.7 %	4.0 %	2.5 %	1.5 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.693 ppb	0.479 ppb	142.702 ppb	10.556 ppb	0.770 ppb	17.028 ppb	0.446 ppb	1.391 ppb	108.220 %
Concentration per Run 1	0.858 ppb	0.569 ppb	146.920 ppb	12.640 ppb	0.852 ppb	17.430 ppb	0.437 ppb	1.538 ppb	103.044 %
Concentration per Run 2	0.556 ppb	0.458 ppb	137.657 ppb	9.312 ppb	0.712 ppb	16.466 ppb	0.448 ppb	1.351 ppb	110.426 %
Concentration per Run 3	0.666 ppb	0.411 ppb	143.529 ppb	9.716 ppb	0.745 ppb	17.187 ppb	0.454 ppb	1.283 ppb	111.190 %
Concentration RSD	22.1 %	17.0 %	3.3 %	17.2 %	9.5 %	2.9 %	1.9 %	9.5 %	4.2 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.364 ppb	1.823 ppb	64.312 ppb	4.737 ppb	99.373 %	0.000 ppb	0.056 ppb	101.679 %	0.106 ppb
Concentration per Run 1	0.394 ppb	1.727 ppb	65.285 ppb	4.874 ppb	98.074 %	0.000 ppb	0.056 ppb	100.716 %	0.090 ppb
Concentration per Run 2	0.301 ppb	1.780 ppb	63.304 ppb	4.580 ppb	99.136 %	-0.002 ppb	0.059 ppb	101.442 %	0.129 ppb
Concentration per Run 3	0.397 ppb	1.964 ppb	64.347 ppb	4.755 ppb	100.908 %	0.002 ppb	0.054 ppb	102.878 %	0.100 ppb
Concentration RSD	14.9 %	6.8 %	1.5 %	3.1 %	1.4 %	14,246.5 %	4.5 %	1.1 %	18.8 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	70.318 ppb	109.316 %	108.323 %	0.006 ppb	0.082 ppb
Concentration per Run 1	69.750 ppb	107.327 %	106.908 %	0.003 ppb	0.094 ppb
Concentration per Run 2	72.765 ppb	108.471 %	109.217 %	0.011 ppb	0.079 ppb
Concentration per Run 3	68.439 ppb	112.150 %	108.844 %	0.006 ppb	0.072 ppb
Concentration RSD	3.2 %	2.3 %	1.1 %	63.5 %	13.8 %

Alpha ICPMSQ Data with SRD

3/6/2024 5:52:11 AM

Analysis index:	19	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	I2410744-02 6020SL	Rack	1		
Analysis started at:	3/5/2024 6:21:51 PM	Vial	33		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	98.655 %	118.224 %	0.003 ppb	161,911.139 ppb	34,647.597 ppb	1.422 ppb	5,736.586 ppb	55,767.156 ppb	114.434 %
Concentration per Run 1	99.133 %	116.559 %	0.012 ppb	167,711.018 ppb	34,809.105 ppb	1.277 ppb	6,043.433 ppb	58,196.687 ppb	114.180 %
Concentration per Run 2	98.934 %	114.339 %	-0.004 ppb	164,557.636 ppb	36,155.856 ppb	1.197 ppb	5,606.531 ppb	54,519.553 ppb	114.435 %
Concentration per Run 3	97.897 %	123.775 %	0.001 ppb	153,464.764 ppb	32,977.829 ppb	1.791 ppb	5,559.795 ppb	54,585.228 ppb	114.687 %
Concentration RSD	0.7 %	4.2 %	305.9 %	4.6 %	4.6 %	22.7 %	4.7 %	3.8 %	0.2 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.013 ppb	0.108 ppb	1,969.145 ppb	3,010.464 ppb	0.178 ppb	2.824 ppb	0.070 ppb	0.668 ppb	106.826 %
Concentration per Run 1	0.016 ppb	0.087 ppb	2,030.846 ppb	3,110.988 ppb	0.184 ppb	2.645 ppb	0.078 ppb	0.700 ppb	105.570 %
Concentration per Run 2	0.031 ppb	0.130 ppb	1,969.051 ppb	2,994.624 ppb	0.161 ppb	2.914 ppb	0.070 ppb	0.589 ppb	108.657 %
Concentration per Run 3	-0.009 ppb	0.108 ppb	1,907.539 ppb	2,925.781 ppb	0.189 ppb	2.913 ppb	0.062 ppb	0.715 ppb	106.250 %
Concentration RSD	158.5 %	19.6 %	3.1 %	3.1 %	8.4 %	5.5 %	11.6 %	10.3 %	1.5 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	2.957 ppb	0.151 ppb	231.708 ppb	1.300 ppb	96.675 %	-0.001 ppb	0.005 ppb	98.569 %	0.075 ppb
Concentration per Run 1	3.071 ppb	0.149 ppb	232.962 ppb	1.248 ppb	97.259 %	-0.002 ppb	0.003 ppb	96.785 %	0.081 ppb
Concentration per Run 2	2.794 ppb	0.097 ppb	228.495 ppb	1.315 ppb	97.120 %	0.000 ppb	0.004 ppb	99.508 %	0.074 ppb
Concentration per Run 3	3.005 ppb	0.208 ppb	233.668 ppb	1.336 ppb	95.646 %	-0.002 ppb	0.009 ppb	99.414 %	0.072 ppb
Concentration RSD	4.9 %	36.8 %	1.2 %	3.6 %	0.9 %	115.2 %	56.5 %	1.6 %	5.9 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	178.618 ppb	105.632 %	104.448 %	-0.014 ppb	1.041 ppb
Concentration per Run 1	180.214 ppb	104.922 %	105.279 %	-0.023 ppb	1.042 ppb
Concentration per Run 2	178.299 ppb	104.946 %	104.717 %	-0.010 ppb	1.035 ppb
Concentration per Run 3	177.339 ppb	107.027 %	103.347 %	-0.008 ppb	1.046 ppb
Concentration RSD	0.8 %	1.1 %	1.0 %	59.4 %	0.5 %

Alpha ICPMSQ Data with SRD

3/6/2024 5:52:11 AM

Analysis index:	20	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	I2410744-03 6020SL	Rack	1		
Analysis started at:	3/5/2024 6:26:29 PM	Vial	34		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	106.127 %	119.427 %	0.007 ppb	81,733.460 ppb	36,748.157 ppb	24.860 ppb	3,825.738 ppb	22,005.825 ppb	121.565 %
Concentration per Run 1	108.448 %	113.506 %	-0.001 ppb	83,380.734 ppb	36,896.868 ppb	23.825 ppb	3,918.180 ppb	22,769.017 ppb	123.541 %
Concentration per Run 2	105.239 %	123.219 %	0.008 ppb	80,568.325 ppb	36,443.317 ppb	23.093 ppb	3,761.802 ppb	21,579.050 ppb	119.614 %
Concentration per Run 3	104.694 %	121.554 %	0.013 ppb	81,251.321 ppb	36,904.288 ppb	27.661 ppb	3,797.230 ppb	21,669.407 ppb	121.539 %
Concentration RSD	1.9 %	4.3 %	102.7 %	1.8 %	0.7 %	9.9 %	2.1 %	3.0 %	1.6 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.864 ppb	4.058 ppb	146.383 ppb	88.209 ppb	0.838 ppb	18.405 ppb	2.210 ppb	14.355 ppb	112.009 %
Concentration per Run 1	1.044 ppb	4.106 ppb	149.185 ppb	90.463 ppb	0.846 ppb	18.089 ppb	2.289 ppb	14.067 ppb	112.061 %
Concentration per Run 2	0.748 ppb	4.145 ppb	147.671 ppb	81.924 ppb	0.814 ppb	18.779 ppb	2.208 ppb	14.729 ppb	111.234 %
Concentration per Run 3	0.799 ppb	3.923 ppb	142.294 ppb	92.238 ppb	0.853 ppb	18.347 ppb	2.134 ppb	14.268 ppb	112.731 %
Concentration RSD	18.3 %	2.9 %	2.5 %	6.3 %	2.5 %	1.9 %	3.5 %	2.4 %	0.7 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.570 ppb	2.120 ppb	68.445 ppb	4.781 ppb	103.260 %	0.000 ppb	0.093 ppb	104.717 %	0.247 ppb
Concentration per Run 1	0.544 ppb	1.982 ppb	67.800 ppb	4.296 ppb	102.320 %	-0.001 ppb	0.092 ppb	105.431 %	0.254 ppb
Concentration per Run 2	0.612 ppb	2.198 ppb	68.771 ppb	5.045 ppb	104.132 %	0.002 ppb	0.088 ppb	104.463 %	0.229 ppb
Concentration per Run 3	0.553 ppb	2.181 ppb	68.762 ppb	5.004 ppb	103.328 %	-0.001 ppb	0.100 ppb	104.256 %	0.256 ppb
Concentration RSD	6.5 %	5.7 %	0.8 %	8.8 %	0.9 %	23,980.4 %	6.9 %	0.6 %	6.1 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	71.514 ppb	110.608 %	108.676 %	-0.009 ppb	0.210 ppb
Concentration per Run 1	70.310 ppb	109.854 %	106.813 %	-0.021 ppb	0.219 ppb
Concentration per Run 2	72.769 ppb	110.482 %	108.233 %	-0.003 ppb	0.208 ppb
Concentration per Run 3	71.463 ppb	111.490 %	110.980 %	-0.003 ppb	0.204 ppb
Concentration RSD	1.7 %	0.7 %	1.9 %	114.4 %	3.7 %

Alpha ICPMSQ Data with SRD

3/6/2024 5:52:11 AM

Analysis index:	21	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	L2410833-03 6020TL	Rack	2		
Analysis started at:	3/5/2024 6:32:32 PM	Vial	33		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	106.354 %	125.440 %	0.002 ppb	16,202.116 ppb	1,536.103 ppb	23.559 ppb	8,667.225 ppb	49,227.187 ppb	109.919 %
Concentration per Run 1	107.386 %	135.431 %	-0.001 ppb	15,562.784 ppb	1,444.118 ppb	23.675 ppb	8,332.743 ppb	48,152.910 ppb	110.928 %
Concentration per Run 2	106.815 %	122.387 %	0.009 ppb	17,035.988 ppb	1,604.109 ppb	22.399 ppb	8,586.223 ppb	49,512.202 ppb	111.172 %
Concentration per Run 3	104.860 %	118.502 %	-0.001 ppb	16,007.575 ppb	1,560.082 ppb	24.602 ppb	9,082.708 ppb	50,016.448 ppb	107.658 %
Concentration RSD	1.2 %	7.1 %	253.3 %	4.7 %	5.4 %	4.7 %	4.4 %	2.0 %	1.8 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	2.488 ppb	0.615 ppb	0.956 ppb	43.091 ppb	0.055 ppb	0.751 ppb	7.377 ppb	7.954 ppb	114.488 %
Concentration per Run 1	2.325 ppb	0.605 ppb	0.897 ppb	45.487 ppb	0.053 ppb	0.724 ppb	7.439 ppb	8.016 ppb	114.150 %
Concentration per Run 2	2.463 ppb	0.616 ppb	0.819 ppb	38.576 ppb	0.058 ppb	0.764 ppb	7.425 ppb	7.921 ppb	116.013 %
Concentration per Run 3	2.677 ppb	0.625 ppb	1.152 ppb	45.211 ppb	0.054 ppb	0.766 ppb	7.265 ppb	7.924 ppb	113.300 %
Concentration RSD	7.1 %	1.7 %	18.2 %	9.1 %	4.6 %	3.2 %	1.3 %	0.7 %	1.2 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	1.729 ppb	0.083 ppb	964.045 ppb	14.774 ppb	106.625 %	0.002 ppb	0.015 ppb	103.668 %	6.231 ppb
Concentration per Run 1	1.825 ppb	0.031 ppb	963.519 ppb	14.551 ppb	107.453 %	0.002 ppb	0.015 ppb	101.045 %	6.452 ppb
Concentration per Run 2	1.686 ppb	0.082 ppb	968.444 ppb	14.551 ppb	105.677 %	0.000 ppb	0.016 ppb	102.873 %	6.163 ppb
Concentration per Run 3	1.677 ppb	0.138 ppb	960.172 ppb	15.220 ppb	106.745 %	0.002 ppb	0.013 ppb	107.085 %	6.078 ppb
Concentration RSD	4.8 %	64.7 %	0.4 %	2.6 %	0.8 %	62.6 %	10.6 %	3.0 %	3.1 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	12.852 ppb	109.399 %	108.177 %	-0.016 ppb	0.124 ppb
Concentration per Run 1	13.360 ppb	109.077 %	108.524 %	-0.026 ppb	0.120 ppb
Concentration per Run 2	12.760 ppb	108.170 %	106.839 %	-0.012 ppb	0.129 ppb
Concentration per Run 3	12.436 ppb	110.952 %	109.167 %	-0.011 ppb	0.122 ppb
Concentration RSD	3.6 %	1.3 %	1.1 %	49.1 %	4.0 %

Alpha ICPMSQ Data with SRD

3/6/2024 5:52:11 AM

Analysis index:	22	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	L2410833-09 6020TL	Rack	2		
Analysis started at:	3/5/2024 6:37:11 PM	Vial	34		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	100.138 %	118.224 %	0.013 ppb	16,444.088 ppb	1,573.113 ppb	182.327 ppb	9,025.748 ppb	51,279.959 ppb	107.275 %
Concentration per Run 1	100.235 %	121.554 %	0.016 ppb	15,480.139 ppb	1,539.637 ppb	179.964 ppb	8,939.720 ppb	50,927.059 ppb	108.580 %
Concentration per Run 2	100.575 %	120.167 %	0.007 ppb	17,029.042 ppb	1,614.838 ppb	191.277 ppb	9,458.511 ppb	53,129.538 ppb	106.662 %
Concentration per Run 3	99.603 %	112.951 %	0.015 ppb	16,823.083 ppb	1,564.863 ppb	175.741 ppb	8,679.012 ppb	49,783.282 ppb	106.583 %
Concentration RSD	0.5 %	3.9 %	39.7 %	5.1 %	2.4 %	4.4 %	4.4 %	3.3 %	1.1 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	3.124 ppb	1.763 ppb	87.473 ppb	775.923 ppb	0.526 ppb	1.772 ppb	14.488 ppb	26.106 ppb	113.675 %
Concentration per Run 1	3.056 ppb	1.810 ppb	89.255 ppb	798.502 ppb	0.586 ppb	1.833 ppb	14.770 ppb	27.344 ppb	107.815 %
Concentration per Run 2	3.147 ppb	1.747 ppb	87.666 ppb	763.967 ppb	0.504 ppb	1.659 ppb	13.902 ppb	25.784 ppb	121.083 %
Concentration per Run 3	3.168 ppb	1.732 ppb	85.499 ppb	765.301 ppb	0.489 ppb	1.825 ppb	14.790 ppb	25.191 ppb	112.127 %
Concentration RSD	1.9 %	2.4 %	2.2 %	2.5 %	9.9 %	5.5 %	3.5 %	4.3 %	6.0 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	1.626 ppb	0.172 ppb	962.895 ppb	13.952 ppb	106.423 %	0.007 ppb	0.069 ppb	107.362 %	5.994 ppb
Concentration per Run 1	1.778 ppb	0.041 ppb	964.952 ppb	14.102 ppb	104.626 %	0.007 ppb	0.074 ppb	104.963 %	5.997 ppb
Concentration per Run 2	1.573 ppb	0.180 ppb	992.490 ppb	13.643 ppb	108.010 %	0.006 ppb	0.072 ppb	109.932 %	6.036 ppb
Concentration per Run 3	1.527 ppb	0.295 ppb	931.242 ppb	14.112 ppb	106.635 %	0.008 ppb	0.061 ppb	107.192 %	5.950 ppb
Concentration RSD	8.2 %	73.8 %	3.2 %	1.9 %	1.6 %	12.5 %	10.5 %	2.3 %	0.7 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	16.748 ppb	112.148 %	112.386 %	-0.018 ppb	2.079 ppb
Concentration per Run 1	16.410 ppb	108.443 %	107.779 %	-0.029 ppb	2.134 ppb
Concentration per Run 2	17.115 ppb	116.436 %	116.097 %	-0.014 ppb	2.036 ppb
Concentration per Run 3	16.720 ppb	111.566 %	113.282 %	-0.012 ppb	2.068 ppb
Concentration RSD	2.1 %	3.6 %	3.8 %	50.3 %	2.4 %

Alpha ICPMSQ Data with SRD

3/6/2024 5:52:11 AM

Analysis index:	23	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	L2410843-01 6020TL	Rack	2		
Analysis started at:	3/5/2024 6:41:49 PM	Vial	35		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	98.278 %	118.779 %	1.500 ppb	58,676.273 ppb	11,730.023 ppb	27,124.321 ppb	7,127.633 ppb	31,102.173 ppb	180.938 %
Concentration per Run 1	100.476 %	119.889 %	1.551 ppb	57,143.570 ppb	11,297.800 ppb	25,523.328 ppb	6,925.876 ppb	30,369.591 ppb	182.502 %
Concentration per Run 2	98.634 %	121.832 %	1.442 ppb	59,267.476 ppb	12,095.794 ppb	28,886.860 ppb	7,553.746 ppb	32,281.881 ppb	182.354 %
Concentration per Run 3	95.725 %	114.616 %	1.507 ppb	59,617.772 ppb	11,796.475 ppb	26,962.777 ppb	6,903.277 ppb	30,655.048 ppb	177.957 %
Concentration RSD	2.4 %	3.1 %	3.7 %	2.3 %	3.4 %	6.2 %	5.2 %	3.3 %	1.4 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	54.457 ppb	32.893 ppb	2,213.707 ppb	58,298.201 ppb	58.872 ppb	19.415 ppb	58.820 ppb	88.173 ppb	111.795 %
Concentration per Run 1	53.661 ppb	33.289 ppb	2,166.583 ppb	58,271.612 ppb	59.506 ppb	20.097 ppb	60.207 ppb	90.070 ppb	105.741 %
Concentration per Run 2	55.661 ppb	33.332 ppb	2,284.825 ppb	58,570.853 ppb	57.811 ppb	19.169 ppb	56.774 ppb	86.602 ppb	118.430 %
Concentration per Run 3	54.049 ppb	32.058 ppb	2,189.714 ppb	58,052.138 ppb	59.297 ppb	18.978 ppb	59.479 ppb	87.846 ppb	111.213 %
Concentration RSD	1.9 %	2.2 %	2.8 %	0.4 %	1.6 %	3.1 %	3.1 %	2.0 %	5.7 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	8.878 ppb	11.381 ppb	176.169 ppb	0.684 ppb	100.458 %	0.049 ppb	0.510 ppb	102.065 %	0.073 ppb
Concentration per Run 1	9.256 ppb	11.277 ppb	174.836 ppb	0.647 ppb	99.418 %	0.045 ppb	0.524 ppb	98.134 %	0.075 ppb
Concentration per Run 2	8.909 ppb	10.613 ppb	180.114 ppb	0.717 ppb	100.936 %	0.054 ppb	0.502 ppb	105.150 %	0.071 ppb
Concentration per Run 3	8.468 ppb	12.252 ppb	173.558 ppb	0.686 ppb	101.021 %	0.048 ppb	0.506 ppb	102.911 %	0.074 ppb
Concentration RSD	4.4 %	7.2 %	2.0 %	5.1 %	0.9 %	9.9 %	2.3 %	3.5 %	2.8 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	109.614 ppb	116.441 %	111.590 %	0.226 ppb	42.533 ppb
Concentration per Run 1	110.761 ppb	113.323 %	108.385 %	0.228 ppb	43.640 ppb
Concentration per Run 2	109.990 ppb	118.814 %	113.834 %	0.221 ppb	41.781 ppb
Concentration per Run 3	108.092 ppb	117.186 %	112.551 %	0.230 ppb	42.179 ppb
Concentration RSD	1.3 %	2.4 %	2.6 %	2.1 %	2.3 %

Alpha ICPMSQ Data with SRD

3/6/2024 5:52:11 AM

Analysis index:	24	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	L2410843-02 6020TL	Rack	2		
Analysis started at:	3/5/2024 6:46:28 PM	Vial	36		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	93.829 %	117.484 %	0.136 ppb	58,372.078 ppb	8,888.112 ppb	2,114.719 ppb	5,779.573 ppb	28,697.957 ppb	110.802 %
Concentration per Run 1	95.618 %	127.660 %	0.131 ppb	56,587.034 ppb	8,637.368 ppb	2,133.533 ppb	5,992.575 ppb	29,550.244 ppb	111.561 %
Concentration per Run 2	93.388 %	115.726 %	0.136 ppb	58,196.651 ppb	8,881.969 ppb	2,079.256 ppb	5,734.288 ppb	28,042.662 ppb	110.725 %
Concentration per Run 3	92.481 %	109.066 %	0.140 ppb	60,332.549 ppb	9,145.000 ppb	2,131.367 ppb	5,611.855 ppb	28,500.964 ppb	110.121 %
Concentration RSD	1.7 %	8.0 %	3.3 %	3.2 %	2.9 %	1.5 %	3.4 %	2.7 %	0.7 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	6.924 ppb	2.996 ppb	1,956.129 ppb	15,123.383 ppb	32.750 ppb	3.962 ppb	5.008 ppb	15.687 ppb	109.001 %
Concentration per Run 1	7.030 ppb	2.991 ppb	1,951.198 ppb	15,107.064 ppb	32.511 ppb	3.981 ppb	5.292 ppb	16.164 ppb	110.675 %
Concentration per Run 2	7.011 ppb	3.044 ppb	1,953.967 ppb	15,085.473 ppb	33.209 ppb	4.013 ppb	4.867 ppb	15.866 ppb	106.312 %
Concentration per Run 3	6.730 ppb	2.954 ppb	1,963.223 ppb	15,177.611 ppb	32.532 ppb	3.892 ppb	4.864 ppb	15.031 ppb	110.018 %
Concentration RSD	2.4 %	1.5 %	0.3 %	0.3 %	1.2 %	1.6 %	4.9 %	3.7 %	2.2 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	2.930 ppb	1.072 ppb	158.687 ppb	0.378 ppb	101.305 %	0.005 ppb	0.267 ppb	102.353 %	0.009 ppb
Concentration per Run 1	3.163 ppb	0.805 ppb	165.160 ppb	0.434 ppb	101.670 %	0.003 ppb	0.286 ppb	105.177 %	0.017 ppb
Concentration per Run 2	2.852 ppb	1.568 ppb	156.941 ppb	0.371 ppb	99.920 %	0.009 ppb	0.257 ppb	100.463 %	-0.001 ppb
Concentration per Run 3	2.776 ppb	0.843 ppb	153.959 ppb	0.329 ppb	102.326 %	0.001 ppb	0.258 ppb	101.418 %	0.012 ppb
Concentration RSD	7.0 %	40.1 %	3.7 %	14.0 %	1.2 %	87.7 %	6.2 %	2.4 %	101.3 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	37.090 ppb	110.314 %	108.435 %	0.059 ppb	2.934 ppb
Concentration per Run 1	38.477 ppb	112.612 %	111.419 %	0.048 ppb	2.894 ppb
Concentration per Run 2	36.593 ppb	110.385 %	106.059 %	0.069 ppb	2.972 ppb
Concentration per Run 3	36.201 ppb	107.944 %	107.826 %	0.059 ppb	2.936 ppb
Concentration RSD	3.3 %	2.1 %	2.5 %	18.6 %	1.3 %

Alpha ICPMSQ Data with SRD

3/6/2024 5:52:11 AM

Analysis index:	25	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	L2410843-03 6020TL	Rack	2		
Analysis started at:	3/5/2024 6:51:07 PM	Vial	37		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	102.069 %	128.400 %	0.273 ppb	8,110.961 ppb	2,266.660 ppb	1,564.891 ppb	3,912.538 ppb	9,640.516 ppb	113.299 %
Concentration per Run 1	104.014 %	131.545 %	0.271 ppb	8,131.759 ppb	2,292.478 ppb	1,624.142 ppb	4,144.545 ppb	9,898.987 ppb	113.733 %
Concentration per Run 2	101.528 %	125.162 %	0.270 ppb	8,148.178 ppb	2,251.292 ppb	1,532.199 ppb	3,820.159 ppb	9,725.021 ppb	113.491 %
Concentration per Run 3	100.664 %	128.492 %	0.276 ppb	8,052.947 ppb	2,256.210 ppb	1,538.333 ppb	3,772.911 ppb	9,297.541 ppb	112.672 %
Concentration RSD	1.7 %	2.5 %	1.2 %	0.6 %	1.0 %	3.3 %	5.2 %	3.2 %	0.5 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	3.709 ppb	3.206 ppb	378.657 ppb	4,601.824 ppb	10.337 ppb	7.174 ppb	5.360 ppb	33.667 ppb	112.593 %
Concentration per Run 1	3.665 ppb	3.282 ppb	399.352 ppb	4,731.290 ppb	10.356 ppb	7.429 ppb	5.264 ppb	34.304 ppb	117.742 %
Concentration per Run 2	3.635 ppb	3.082 ppb	361.310 ppb	4,456.674 ppb	10.321 ppb	7.400 ppb	5.404 ppb	33.101 ppb	109.960 %
Concentration per Run 3	3.827 ppb	3.254 ppb	375.309 ppb	4,617.506 ppb	10.334 ppb	6.694 ppb	5.412 ppb	33.595 ppb	110.078 %
Concentration RSD	2.8 %	3.4 %	5.1 %	3.0 %	0.2 %	5.8 %	1.6 %	1.8 %	4.0 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	1.249 ppb	0.599 ppb	40.737 ppb	0.101 ppb	105.833 %	0.004 ppb	0.074 ppb	105.941 %	-0.014 ppb
Concentration per Run 1	1.265 ppb	0.632 ppb	42.193 ppb	0.074 ppb	107.271 %	0.002 ppb	0.071 ppb	111.270 %	-0.022 ppb
Concentration per Run 2	1.251 ppb	0.625 ppb	40.230 ppb	0.112 ppb	105.673 %	0.006 ppb	0.084 ppb	105.686 %	-0.011 ppb
Concentration per Run 3	1.232 ppb	0.539 ppb	39.787 ppb	0.118 ppb	104.557 %	0.005 ppb	0.068 ppb	100.865 %	-0.009 ppb
Concentration RSD	1.3 %	8.7 %	3.1 %	23.6 %	1.3 %	44.1 %	11.8 %	4.9 %	49.9 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	24.327 ppb	112.838 %	109.192 %	0.032 ppb	3.895 ppb
Concentration per Run 1	25.042 ppb	115.240 %	114.889 %	0.024 ppb	3.745 ppb
Concentration per Run 2	24.645 ppb	110.992 %	108.834 %	0.034 ppb	3.868 ppb
Concentration per Run 3	23.294 ppb	112.282 %	103.853 %	0.039 ppb	4.072 ppb
Concentration RSD	3.8 %	1.9 %	5.1 %	23.7 %	4.2 %

Alpha ICPMSQ Data with SRD

3/6/2024 5:52:11 AM

Analysis index:	26	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	L2410843-04 6020TL	Rack	2		
Analysis started at:	3/5/2024 6:55:46 PM	Vial	38		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	107.473 %	140.241 %	17.840 ppb	101,826.136 ppb	13,160.651 ppb	63,687.085 ppb	23,755.701 ppb	27,182.867 ppb	282.814 %
Concentration per Run 1	109.880 %	139.316 %	17.676 ppb	104,375.316 ppb	13,620.918 ppb	67,330.482 ppb	25,116.899 ppb	28,845.771 ppb	286.778 %
Concentration per Run 2	107.245 %	146.254 %	17.939 ppb	96,798.003 ppb	12,570.593 ppb	59,691.112 ppb	22,012.942 ppb	25,614.858 ppb	283.012 %
Concentration per Run 3	105.293 %	135.153 %	17.905 ppb	104,305.090 ppb	13,290.441 ppb	64,039.661 ppb	24,137.262 ppb	27,087.973 ppb	278.651 %
Concentration RSD	2.1 %	4.0 %	0.8 %	4.3 %	4.1 %	6.0 %	6.7 %	6.0 %	1.4 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	62.412 ppb	64.276 ppb	14,742.340 ppb	106,650.811 ppb	101.712 ppb	52.020 ppb	52.988 ppb	234.302 ppb	126.061 %
Concentration per Run 1	65.251 ppb	67.365 ppb	15,498.919 ppb	110,532.392 ppb	103.268 ppb	52.121 ppb	53.462 ppb	239.769 ppb	128.014 %
Concentration per Run 2	61.596 ppb	61.681 ppb	14,293.050 ppb	104,310.770 ppb	100.322 ppb	51.880 ppb	52.539 ppb	233.680 ppb	122.710 %
Concentration per Run 3	60.388 ppb	63.783 ppb	14,435.052 ppb	105,109.273 ppb	101.547 ppb	52.059 ppb	52.963 ppb	229.457 ppb	127.459 %
Concentration RSD	4.1 %	4.5 %	4.5 %	3.2 %	1.5 %	0.2 %	0.9 %	2.2 %	2.3 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	6.871 ppb	34.296 ppb	129.486 ppb	0.254 ppb	105.858 %	0.157 ppb	1.381 ppb	106.508 %	0.076 ppb
Concentration per Run 1	6.764 ppb	32.472 ppb	136.880 ppb	0.165 ppb	105.215 %	0.155 ppb	1.400 ppb	107.214 %	0.077 ppb
Concentration per Run 2	6.840 ppb	36.153 ppb	126.286 ppb	0.298 ppb	105.534 %	0.151 ppb	1.282 ppb	105.940 %	0.078 ppb
Concentration per Run 3	7.008 ppb	34.264 ppb	125.293 ppb	0.301 ppb	106.825 %	0.166 ppb	1.461 ppb	106.370 %	0.074 ppb
Concentration RSD	1.8 %	5.4 %	5.0 %	30.5 %	0.8 %	5.1 %	6.6 %	0.6 %	2.6 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	681.707 ppb	141.296 %	123.548 %	1.141 ppb	76.242 ppb
Concentration per Run 1	710.180 ppb	140.239 %	123.954 %	1.147 ppb	77.351 ppb
Concentration per Run 2	675.182 ppb	141.578 %	122.415 %	1.140 ppb	75.515 ppb
Concentration per Run 3	659.761 ppb	142.070 %	124.276 %	1.135 ppb	75.858 ppb
Concentration RSD	3.8 %	0.7 %	0.8 %	0.5 %	1.3 %

Alpha ICPMSQ Data with SRD

3/6/2024 5:52:11 AM

Analysis index: 27
Analysis label: L2410866-01 6020TL
Analysis started at: 3/5/2024 7:00:24 PM
User name ALPHALAB\Metals-Instrument
Rack 2
Vial 45
Comment <Comment>

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	95.440 %	127.937 %	0.012 ppb	210,953.268 ppb	12,683.850 ppb	52.312 ppb	20,620.402 ppb	234,603.317 ppb	115.073 %
Concentration per Run 1	97.369 %	119.612 %	0.014 ppb	214,131.172 ppb	12,855.139 ppb	52.310 ppb	20,886.108 ppb	237,131.261 ppb	115.912 %
Concentration per Run 2	96.073 %	126.550 %	0.009 ppb	220,094.059 ppb	13,310.898 ppb	54.232 ppb	21,190.858 ppb	247,259.543 ppb	115.484 %
Concentration per Run 3	92.876 %	137.651 %	0.013 ppb	198,634.574 ppb	11,885.514 ppb	50.395 ppb	19,784.240 ppb	219,419.148 ppb	113.824 %
Concentration RSD	2.4 %	7.1 %	22.1 %	5.3 %	5.7 %	3.7 %	3.6 %	6.0 %	1.0 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.206 ppb	0.416 ppb	576.004 ppb	463.388 ppb	63.949 ppb	64.511 ppb	4.414 ppb	11.643 ppb	119.153 %
Concentration per Run 1	0.189 ppb	0.444 ppb	573.720 ppb	472.700 ppb	63.853 ppb	65.048 ppb	4.488 ppb	11.408 ppb	115.939 %
Concentration per Run 2	0.289 ppb	0.472 ppb	615.135 ppb	488.455 ppb	66.558 ppb	66.345 ppb	4.527 ppb	12.019 ppb	120.370 %
Concentration per Run 3	0.139 ppb	0.333 ppb	539.158 ppb	429.008 ppb	61.437 ppb	62.140 ppb	4.227 ppb	11.501 ppb	121.150 %
Concentration RSD	37.3 %	17.7 %	6.6 %	6.6 %	4.0 %	3.3 %	3.7 %	2.8 %	2.4 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.704 ppb	1.530 ppb	1,401.317 ppb	4.528 ppb	107.487 %	0.005 ppb	0.047 ppb	110.555 %	3.344 ppb
Concentration per Run 1	0.725 ppb	1.636 ppb	1,347.138 ppb	4.333 ppb	106.259 %	0.005 ppb	0.046 ppb	108.074 %	3.306 ppb
Concentration per Run 2	0.756 ppb	1.426 ppb	1,496.527 ppb	4.713 ppb	109.587 %	0.005 ppb	0.055 ppb	115.781 %	3.375 ppb
Concentration per Run 3	0.630 ppb	1.527 ppb	1,360.284 ppb	4.539 ppb	106.616 %	0.004 ppb	0.042 ppb	107.811 %	3.353 ppb
Concentration RSD	9.3 %	6.9 %	5.9 %	4.2 %	1.7 %	8.4 %	13.5 %	4.1 %	1.1 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	25.632 ppb	115.893 %	115.203 %	-0.006 ppb	0.812 ppb
Concentration per Run 1	25.044 ppb	114.266 %	112.769 %	-0.013 ppb	0.808 ppb
Concentration per Run 2	25.861 ppb	118.369 %	120.124 %	-0.008 ppb	0.789 ppb
Concentration per Run 3	25.991 ppb	115.044 %	112.716 %	0.002 ppb	0.838 ppb
Concentration RSD	2.0 %	1.9 %	3.7 %	119.8 %	3.1 %

Alpha ICPMSQ Data with SRD

3/6/2024 5:52:11 AM

Analysis index:	28	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	CCV	Rack	0		
Analysis started at:	3/5/2024 7:05:03 PM	Vial	9		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	100.008 %	135.153 %	60.516 ppb	6,041.777 ppb	6,006.336 ppb	63.247 ppb	6,027.939 ppb	6,029.573 ppb	118.618 %
Concentration per Run 1	101.163 %	130.990 %	60.457 ppb	6,439.576 ppb	6,340.899 ppb	62.107 ppb	6,427.944 ppb	6,253.880 ppb	120.358 %
Concentration per Run 2	99.291 %	134.320 %	60.451 ppb	5,975.502 ppb	5,996.363 ppb	66.260 ppb	5,863.021 ppb	5,959.934 ppb	117.301 %
Concentration per Run 3	99.568 %	140.149 %	60.641 ppb	5,710.252 ppb	5,681.745 ppb	61.374 ppb	5,792.853 ppb	5,874.905 ppb	118.196 %
Recovery Percentage 1			100.860 %	100.696 %	100.106 %	105.412 %	100.466 %	100.493 %	
Concentration RSD	1.0 %	3.4 %	0.2 %	6.1 %	5.5 %	4.2 %	5.8 %	3.3 %	1.3 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	58.846 ppb	58.206 ppb	60.074 ppb	6,087.653 ppb	61.522 ppb	62.346 ppb	63.395 ppb	62.058 ppb	120.456 %
Concentration per Run 1	60.595 ppb	60.395 ppb	60.949 ppb	6,279.005 ppb	63.846 ppb	65.348 ppb	66.217 ppb	64.183 ppb	121.509 %
Concentration per Run 2	58.848 ppb	57.610 ppb	60.959 ppb	6,061.918 ppb	61.440 ppb	61.364 ppb	62.177 ppb	60.916 ppb	123.243 %
Concentration per Run 3	57.094 ppb	56.612 ppb	58.315 ppb	5,922.037 ppb	59.280 ppb	60.325 ppb	61.790 ppb	61.075 ppb	116.617 %
Recovery Percentage 1	98.076 %	97.010 %	100.123 %	101.461 %	102.537 %	103.909 %	105.658 %	103.430 %	
Concentration RSD	3.0 %	3.4 %	2.5 %	3.0 %	3.7 %	4.3 %	3.9 %	3.0 %	2.9 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	62.468 ppb	64.175 ppb	59.173 ppb	58.842 ppb	119.839 %	61.352 ppb	61.618 ppb	113.192 %	55.962 ppb
Concentration per Run 1	63.561 ppb	65.704 ppb	60.597 ppb	57.697 ppb	121.263 %	62.153 ppb	62.202 ppb	113.909 %	57.159 ppb
Concentration per Run 2	61.770 ppb	61.856 ppb	57.097 ppb	57.522 ppb	121.045 %	60.411 ppb	60.855 ppb	115.049 %	54.266 ppb
Concentration per Run 3	62.075 ppb	64.965 ppb	59.825 ppb	61.308 ppb	117.210 %	61.492 ppb	61.796 ppb	110.617 %	56.462 ppb
Recovery Percentage 1	104.114 %	106.958 %	98.621 %	98.070 %		102.253 %	102.696 %		93.271 %
Concentration RSD	1.5 %	3.2 %	3.1 %	3.6 %	1.9 %	1.4 %	1.1 %	2.0 %	2.7 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	60.977 ppb	119.720 %	113.976 %	62.269 ppb	61.778 ppb
Concentration per Run 1	62.535 ppb	119.547 %	113.304 %	62.470 ppb	63.175 ppb
Concentration per Run 2	59.683 ppb	121.907 %	117.669 %	59.535 ppb	59.232 ppb
Concentration per Run 3	60.714 ppb	117.706 %	110.953 %	64.803 ppb	62.926 ppb
Recovery Percentage 1	101.629 %			103.782 %	102.963 %
Concentration RSD	2.4 %	1.8 %	3.0 %	4.2 %	3.6 %

Alpha ICPMSQ Data with SRD

3/6/2024 5:52:11 AM

Analysis index:	29	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	CCB	Rack	0		
Analysis started at:	3/5/2024 7:09:44 PM	Vial	10		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	97.177 %	125.440 %	0.006 ppb	-2.643 ppb	-0.553 ppb	-0.454 ppb	-0.009 ppb	3.381 ppb	102.656 %
Concentration per Run 1	99.915 %	122.942 %	0.001 ppb	-1.101 ppb	-0.319 ppb	-0.307 ppb	1.748 ppb	-0.433 ppb	104.439 %
Concentration per Run 2	97.602 %	130.435 %	0.007 ppb	-2.392 ppb	-0.809 ppb	-0.585 ppb	-1.571 ppb	1.983 ppb	102.394 %
Concentration per Run 3	94.015 %	122.942 %	0.011 ppb	-4.438 ppb	-0.531 ppb	-0.471 ppb	-0.203 ppb	8.592 ppb	101.135 %
Recovery Percentage 1			1.275 %	-2.643 %	-0.790 %	-4.541 %	-0.009 %	3.381 %	
Concentration RSD	3.1 %	3.4 %	73.3 %	63.6 %	44.4 %	30.8 %	19,193.1 %	138.2 %	1.6 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.012 ppb	0.009 ppb	0.111 ppb	14.572 ppb	0.002 ppb	0.039 ppb	-0.018 ppb	0.112 ppb	110.753 %
Concentration per Run 1	0.014 ppb	0.010 ppb	-0.001 ppb	14.783 ppb	0.001 ppb	0.021 ppb	-0.005 ppb	0.123 ppb	111.455 %
Concentration per Run 2	-0.001 ppb	0.001 ppb	0.171 ppb	13.913 ppb	0.001 ppb	0.036 ppb	-0.039 ppb	0.115 ppb	116.720 %
Concentration per Run 3	0.023 ppb	0.014 ppb	0.163 ppb	15.021 ppb	0.003 ppb	0.061 ppb	-0.009 ppb	0.099 ppb	104.083 %
Recovery Percentage 1	0.243 %	0.852 %	11.085 %	29.145 %	0.375 %	1.945 %	-1.768 %	2.248 %	
Concentration RSD	103.8 %	77.2 %	87.6 %	4.0 %	67.7 %	51.9 %	105.2 %	10.9 %	5.7 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.045 ppb	0.292 ppb	0.004 ppb	0.763 ppb	111.638 %	0.002 ppb	0.001 ppb	105.847 %	0.410 ppb
Concentration per Run 1	0.079 ppb	0.297 ppb	0.003 ppb	0.778 ppb	113.092 %	0.005 ppb	0.001 ppb	108.281 %	0.413 ppb
Concentration per Run 2	0.021 ppb	0.280 ppb	0.003 ppb	0.784 ppb	112.685 %	0.000 ppb	0.001 ppb	107.573 %	0.396 ppb
Concentration per Run 3	0.034 ppb	0.297 ppb	0.006 ppb	0.726 ppb	109.137 %	0.000 ppb	0.000 ppb	101.686 %	0.420 ppb
Recovery Percentage 1	8.947 %	5.834 %	0.040 %	38.134 %		0.440 %	0.429 %		10.241 %
Concentration RSD	67.2 %	3.4 %	52.1 %	4.2 %	1.9 %	178.6 %	86.6 %	3.4 %	3.0 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	-0.103 ppb	112.163 %	106.248 %	0.309 ppb	0.032 ppb
Concentration per Run 1	-0.107 ppb	111.435 %	106.316 %	0.274 ppb	0.039 ppb
Concentration per Run 2	-0.096 ppb	113.362 %	108.719 %	0.361 ppb	0.029 ppb
Concentration per Run 3	-0.107 ppb	111.693 %	103.710 %	0.291 ppb	0.028 ppb
Recovery Percentage 1	-20.659 %			30.865 %	3.217 %
Concentration RSD	6.0 %	0.9 %	2.4 %	14.9 %	17.8 %

Analysis index:	30	User name	ALPHALAB\Metals-Instrument	Comment	fb
Analysis label:	xL2410833-02 6020TL	Rack	2		
Analysis started at:	3/5/2024 7:15:22 PM	Vial	32		

Alpha ICPMSQ Data with SRD

3/6/2024 5:52:11 AM

Analysis index: 31
Analysis label: L2410843-11 6020TL
Analysis started at: 3/5/2024 7:55:54 PM
User name ALPHALAB\Metals-Instrument
Rack 2
Vial 44
Comment fb

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	106.188 %	127.105 %	0.002 ppb	-7.098 ppb	0.538 ppb	1.393 ppb	-5.903 ppb	13.375 ppb	139.301 %
Concentration per Run 1	109.705 %	128.492 %	0.003 ppb	-6.826 ppb	-0.147 ppb	1.164 ppb	-2.989 ppb	18.555 ppb	143.807 %
Concentration per Run 2	107.086 %	126.550 %	0.006 ppb	-7.083 ppb	0.545 ppb	0.954 ppb	-13.563 ppb	10.767 ppb	141.160 %
Concentration per Run 3	101.771 %	126.272 %	-0.003 ppb	-7.384 ppb	1.215 ppb	2.061 ppb	-1.157 ppb	10.802 ppb	132.938 %
Concentration RSD	3.8 %	1.0 %	228.4 %	3.9 %	126.7 %	42.2 %	113.4 %	33.5 %	4.1 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.027 ppb	0.107 ppb	0.077 ppb	4.558 ppb	0.004 ppb	0.035 ppb	0.021 ppb	0.422 ppb	112.192 %
Concentration per Run 1	0.006 ppb	0.092 ppb	0.065 ppb	5.304 ppb	0.003 ppb	0.024 ppb	0.029 ppb	0.411 ppb	114.916 %
Concentration per Run 2	0.030 ppb	0.115 ppb	0.069 ppb	4.075 ppb	0.007 ppb	0.027 ppb	0.008 ppb	0.401 ppb	110.860 %
Concentration per Run 3	0.045 ppb	0.113 ppb	0.097 ppb	4.295 ppb	0.001 ppb	0.054 ppb	0.025 ppb	0.453 ppb	110.800 %
Concentration RSD	72.7 %	11.9 %	22.5 %	14.4 %	79.7 %	46.7 %	55.3 %	6.5 %	2.1 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	-0.079 ppb	0.087 ppb	0.007 ppb	0.078 ppb	81.589 %	-0.002 ppb	0.000 ppb	97.552 %	-0.011 ppb
Concentration per Run 1	-0.086 ppb	-0.010 ppb	0.007 ppb	0.146 ppb	81.654 %	-0.004 ppb	0.000 ppb	116.401 %	-0.033 ppb
Concentration per Run 2	-0.053 ppb	-0.013 ppb	0.008 ppb	0.019 ppb	81.756 %	0.000 ppb	0.000 ppb	91.703 %	0.004 ppb
Concentration per Run 3	-0.099 ppb	0.286 ppb	0.006 ppb	0.068 ppb	81.359 %	-0.003 ppb	0.000 ppb	84.553 %	-0.004 ppb
Concentration RSD	29.6 %	196.2 %	13.7 %	82.6 %	0.3 %	90.7 %	N/A	17.1 %	174.2 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	-0.083 ppb	99.236 %	97.914 %	0.011 ppb	-0.015 ppb
Concentration per Run 1	-0.096 ppb	100.591 %	99.551 %	0.000 ppb	-0.014 ppb
Concentration per Run 2	-0.104 ppb	99.383 %	95.782 %	0.025 ppb	-0.015 ppb
Concentration per Run 3	-0.049 ppb	97.734 %	98.410 %	0.009 ppb	-0.017 ppb
Concentration RSD	36.0 %	1.4 %	2.0 %	115.0 %	9.4 %

Alpha ICPMSQ Data with SRD

3/6/2024 5:52:11 AM

Analysis index:	32	User name	ALPHALAB\Metals-Instrument	Comment	fb
Analysis label:	L2410833-02 6020TL	Rack	2		
Analysis started at:	3/5/2024 8:01:23 PM	Vial	32		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	110.845 %	116.096 %	0.000 ppb	24.175 ppb	1.625 ppb	2.347 ppb	17.229 ppb	77.743 ppb	121.669 %
Concentration per Run 1	110.613 %	111.563 %	0.005 ppb	24.795 ppb	2.690 ppb	2.886 ppb	16.407 ppb	74.430 ppb	120.930 %
Concentration per Run 2	111.692 %	115.171 %	-0.003 ppb	23.444 ppb	1.805 ppb	2.617 ppb	24.464 ppb	62.497 ppb	123.188 %
Concentration per Run 3	110.232 %	121.554 %	-0.002 ppb	24.286 ppb	0.381 ppb	1.537 ppb	10.815 ppb	96.303 ppb	120.889 %
Concentration RSD	0.7 %	4.4 %	3,276.2 %	2.8 %	71.7 %	30.4 %	39.8 %	22.1 %	1.1 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.007 ppb	0.174 ppb	0.078 ppb	5.673 ppb	0.003 ppb	0.050 ppb	0.132 ppb	1.496 ppb	114.032 %
Concentration per Run 1	0.007 ppb	0.190 ppb	0.058 ppb	4.748 ppb	0.003 ppb	0.050 ppb	0.116 ppb	1.408 ppb	111.072 %
Concentration per Run 2	0.014 ppb	0.178 ppb	0.092 ppb	4.399 ppb	0.001 ppb	0.016 ppb	0.156 ppb	1.464 ppb	121.025 %
Concentration per Run 3	-0.001 ppb	0.153 ppb	0.085 ppb	7.873 ppb	0.003 ppb	0.083 ppb	0.124 ppb	1.615 ppb	110.000 %
Concentration RSD	110.2 %	10.9 %	22.7 %	33.7 %	48.7 %	66.9 %	16.2 %	7.2 %	5.3 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	-0.003 ppb	0.098 ppb	0.188 ppb	-0.043 ppb	81.492 %	0.002 ppb	0.002 ppb	80.224 %	-0.032 ppb
Concentration per Run 1	-0.044 ppb	0.038 ppb	0.190 ppb	-0.053 ppb	81.298 %	0.001 ppb	0.000 ppb	77.915 %	-0.027 ppb
Concentration per Run 2	0.010 ppb	0.168 ppb	0.190 ppb	-0.037 ppb	83.370 %	0.000 ppb	0.002 ppb	84.934 %	-0.038 ppb
Concentration per Run 3	0.027 ppb	0.088 ppb	0.184 ppb	-0.038 ppb	79.807 %	0.006 ppb	0.004 ppb	77.822 %	-0.031 ppb
Concentration RSD	1,389.6 %	66.5 %	2.0 %	21.3 %	2.2 %	141.3 %	102.5 %	5.1 %	17.0 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	0.092 ppb	96.737 %	96.059 %	-0.017 ppb	-0.002 ppb
Concentration per Run 1	0.097 ppb	95.629 %	94.051 %	-0.023 ppb	-0.001 ppb
Concentration per Run 2	0.110 ppb	100.054 %	101.602 %	-0.015 ppb	-0.003 ppb
Concentration per Run 3	0.070 ppb	94.529 %	92.525 %	-0.013 ppb	-0.002 ppb
Concentration RSD	21.9 %	3.0 %	5.1 %	31.4 %	43.3 %

Alpha ICPMSQ Data with SRD

3/6/2024 5:52:11 AM

Analysis index: 33
Analysis label: L2410843-05 6020TL
Analysis started at: 3/5/2024 8:06:00 PM
User name ALPHALAB\Metals-Instrument
Rack 2
Vial 39
Comment <Comment>

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	113.075 %	133.395 %	0.778 ppb	27,416.200 ppb	9,570.770 ppb	4,046.752 ppb	12,562.468 ppb	14,327.526 ppb	161.753 %
Concentration per Run 1	115.214 %	137.096 %	0.788 ppb	26,060.716 ppb	8,925.146 ppb	3,763.861 ppb	12,235.257 ppb	14,189.892 ppb	162.227 %
Concentration per Run 2	113.184 %	139.038 %	0.766 ppb	26,815.364 ppb	9,483.405 ppb	4,030.263 ppb	12,517.443 ppb	14,427.209 ppb	160.955 %
Concentration per Run 3	110.827 %	124.052 %	0.778 ppb	29,372.520 ppb	10,303.758 ppb	4,346.130 ppb	12,934.705 ppb	14,365.477 ppb	162.077 %
Concentration RSD	1.9 %	6.1 %	1.4 %	6.3 %	7.2 %	7.2 %	2.8 %	0.9 %	0.4 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	19.386 ppb	14.856 ppb	247.531 ppb	78,529.743 ppb	3.270 ppb	11.243 ppb	22.032 ppb	46.763 ppb	110.388 %
Concentration per Run 1	19.538 ppb	15.144 ppb	249.658 ppb	78,725.366 ppb	3.299 ppb	11.594 ppb	23.089 ppb	47.580 ppb	103.856 %
Concentration per Run 2	19.073 ppb	14.606 ppb	243.546 ppb	79,327.145 ppb	3.221 ppb	10.565 ppb	21.832 ppb	46.749 ppb	111.695 %
Concentration per Run 3	19.547 ppb	14.817 ppb	249.390 ppb	77,536.719 ppb	3.289 ppb	11.569 ppb	21.173 ppb	45.960 ppb	115.615 %
Concentration RSD	1.4 %	1.8 %	1.4 %	1.2 %	1.3 %	5.2 %	4.4 %	1.7 %	5.4 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	9.248 ppb	3.992 ppb	204.351 ppb	0.062 ppb	75.753 %	0.078 ppb	0.294 ppb	72.813 %	0.203 ppb
Concentration per Run 1	9.693 ppb	4.529 ppb	202.848 ppb	0.075 ppb	73.198 %	0.071 ppb	0.294 ppb	68.585 %	0.206 ppb
Concentration per Run 2	9.299 ppb	3.836 ppb	207.228 ppb	0.054 ppb	77.137 %	0.074 ppb	0.277 ppb	74.356 %	0.176 ppb
Concentration per Run 3	8.751 ppb	3.610 ppb	202.977 ppb	0.057 ppb	76.923 %	0.088 ppb	0.312 ppb	75.497 %	0.225 ppb
Concentration RSD	5.1 %	12.0 %	1.2 %	18.1 %	2.9 %	11.9 %	5.9 %	5.1 %	12.2 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	301.754 ppb	95.410 %	92.920 %	0.034 ppb	15.477 ppb
Concentration per Run 1	311.475 ppb	90.381 %	86.914 %	0.030 ppb	16.326 ppb
Concentration per Run 2	301.246 ppb	97.368 %	93.874 %	0.035 ppb	15.591 ppb
Concentration per Run 3	292.540 ppb	98.481 %	97.971 %	0.037 ppb	14.513 ppb
Concentration RSD	3.1 %	4.6 %	6.0 %	10.4 %	5.9 %

Alpha ICPMSQ Data with SRD

3/6/2024 5:52:11 AM

Analysis index:	34	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	L2410843-06 6020TL	Rack	2		
Analysis started at:	3/5/2024 8:10:39 PM	Vial	40		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	122.133 %	151.897 %	5.280 ppb	21,827.069 ppb	15,696.770 ppb	69,891.575 ppb	8,317.709 ppb	43,997.967 ppb	290.397 %
Concentration per Run 1	125.899 %	151.250 %	5.227 ppb	20,962.695 ppb	15,388.496 ppb	67,914.339 ppb	8,059.047 ppb	42,559.177 ppb	295.996 %
Concentration per Run 2	120.701 %	157.078 %	5.294 ppb	21,670.994 ppb	15,615.978 ppb	68,784.496 ppb	8,190.072 ppb	43,675.254 ppb	286.586 %
Concentration per Run 3	119.797 %	147.364 %	5.318 ppb	22,847.520 ppb	16,085.835 ppb	72,975.891 ppb	8,704.008 ppb	45,759.471 ppb	288.609 %
Concentration RSD	2.7 %	3.2 %	0.9 %	4.4 %	2.3 %	3.9 %	4.1 %	3.7 %	1.7 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	105.759 ppb	140.241 ppb	3,849.913 ppb	91,848.622 ppb	94.313 ppb	50.256 ppb	161.510 ppb	331.296 ppb	121.176 %
Concentration per Run 1	106.021 ppb	137.636 ppb	3,681.865 ppb	91,519.969 ppb	93.743 ppb	51.276 ppb	160.636 ppb	328.605 ppb	117.975 %
Concentration per Run 2	104.918 ppb	140.028 ppb	3,863.185 ppb	90,052.073 ppb	93.636 ppb	50.033 ppb	162.315 ppb	330.301 ppb	122.900 %
Concentration per Run 3	106.339 ppb	143.060 ppb	4,004.688 ppb	93,973.825 ppb	95.561 ppb	49.459 ppb	161.578 ppb	334.981 ppb	122.652 %
Concentration RSD	0.7 %	1.9 %	4.2 %	2.2 %	1.1 %	1.8 %	0.5 %	1.0 %	2.3 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	9.325 ppb	17.058 ppb	392.416 ppb	0.346 ppb	77.380 %	0.352 ppb	0.819 ppb	74.967 %	0.126 ppb
Concentration per Run 1	9.641 ppb	16.270 ppb	388.994 ppb	0.411 ppb	76.640 %	0.354 ppb	0.708 ppb	74.598 %	0.113 ppb
Concentration per Run 2	9.210 ppb	17.036 ppb	393.180 ppb	0.352 ppb	77.251 %	0.352 ppb	0.861 ppb	72.932 %	0.139 ppb
Concentration per Run 3	9.123 ppb	17.869 ppb	395.076 ppb	0.277 ppb	78.249 %	0.351 ppb	0.888 ppb	77.370 %	0.126 ppb
Concentration RSD	3.0 %	4.7 %	0.8 %	19.4 %	1.0 %	0.6 %	11.8 %	3.0 %	10.3 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	663.707 ppb	106.677 %	99.121 %	0.537 ppb	129.072 ppb
Concentration per Run 1	643.409 ppb	105.275 %	99.382 %	0.527 ppb	128.581 ppb
Concentration per Run 2	683.494 ppb	107.861 %	100.095 %	0.530 ppb	127.507 ppb
Concentration per Run 3	664.217 ppb	106.894 %	97.885 %	0.555 ppb	131.128 ppb
Concentration RSD	3.0 %	1.2 %	1.1 %	2.9 %	1.4 %

Alpha ICPMSQ Data with SRD

3/6/2024 5:52:11 AM

Analysis index:	35	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	L2410843-07 6020TL	Rack	2		
Analysis started at:	3/5/2024 8:15:17 PM	Vial	41		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	117.819 %	142.369 %	2.376 ppb	3,298.381 ppb	13,208.600 ppb	52,593.660 ppb	3,973.433 ppb	45,785.471 ppb	238.608 %
Concentration per Run 1	120.798 %	145.422 %	2.340 ppb	3,279.429 ppb	13,072.299 ppb	51,616.652 ppb	4,005.712 ppb	46,063.672 ppb	239.052 %
Concentration per Run 2	115.850 %	144.034 %	2.373 ppb	3,219.844 ppb	12,970.486 ppb	52,225.797 ppb	3,979.542 ppb	46,080.541 ppb	236.067 %
Concentration per Run 3	116.808 %	137.651 %	2.415 ppb	3,395.871 ppb	13,583.014 ppb	53,938.532 ppb	3,935.046 ppb	45,212.198 ppb	240.706 %
Concentration RSD	2.2 %	2.9 %	1.6 %	2.7 %	2.5 %	2.3 %	0.9 %	1.1 %	1.0 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	84.989 ppb	77.731 ppb	410.475 ppb	45,476.427 ppb	23.183 ppb	39.823 ppb	2,626.647 ppb	220.598 ppb	119.779 %
Concentration per Run 1	83.956 ppb	77.144 ppb	409.208 ppb	45,840.020 ppb	23.140 ppb	40.187 ppb	2,687.944 ppb	227.030 ppb	116.624 %
Concentration per Run 2	85.601 ppb	77.524 ppb	414.157 ppb	45,347.189 ppb	23.358 ppb	39.865 ppb	2,589.608 ppb	216.829 ppb	120.136 %
Concentration per Run 3	85.412 ppb	78.526 ppb	408.061 ppb	45,242.072 ppb	23.052 ppb	39.418 ppb	2,602.389 ppb	217.934 ppb	122.576 %
Concentration RSD	1.1 %	0.9 %	0.8 %	0.7 %	0.7 %	1.0 %	2.0 %	2.5 %	2.5 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	11.477 ppb	15.449 ppb	260.650 ppb	0.278 ppb	80.509 %	0.390 ppb	0.316 ppb	77.847 %	0.682 ppb
Concentration per Run 1	11.473 ppb	15.566 ppb	264.406 ppb	0.234 ppb	80.593 %	0.372 ppb	0.342 ppb	79.201 %	0.668 ppb
Concentration per Run 2	11.463 ppb	14.919 ppb	258.115 ppb	0.234 ppb	80.644 %	0.388 ppb	0.306 ppb	79.066 %	0.650 ppb
Concentration per Run 3	11.497 ppb	15.862 ppb	259.431 ppb	0.365 ppb	80.289 %	0.409 ppb	0.299 ppb	75.274 %	0.728 ppb
Concentration RSD	0.2 %	3.1 %	1.3 %	27.2 %	0.2 %	4.8 %	7.2 %	2.9 %	6.0 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	237.222 ppb	107.106 %	99.093 %	0.366 ppb	335.200 ppb
Concentration per Run 1	224.098 ppb	108.658 %	101.540 %	0.341 ppb	325.961 ppb
Concentration per Run 2	234.781 ppb	106.947 %	98.784 %	0.372 ppb	332.875 ppb
Concentration per Run 3	252.787 ppb	105.712 %	96.955 %	0.385 ppb	346.764 ppb
Concentration RSD	6.1 %	1.4 %	2.3 %	6.2 %	3.2 %

Alpha ICPMSQ Data with SRD

3/6/2024 5:52:11 AM

Analysis index:	36	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	L2410843-08 6020TL	Rack	2		
Analysis started at:	3/5/2024 8:19:56 PM	Vial	42		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	115.237 %	138.483 %	5.389 ppb	358,351.848 ppb	24,346.434 ppb	51,034.579 ppb	16,684.893 ppb	42,097.347 ppb	293.971 %
Concentration per Run 1	117.661 %	139.871 %	5.340 ppb	354,587.028 ppb	24,212.371 ppb	51,182.671 ppb	16,384.844 ppb	42,081.555 ppb	298.782 %
Concentration per Run 2	114.403 %	142.091 %	5.546 ppb	355,688.363 ppb	24,198.944 ppb	49,494.854 ppb	16,633.579 ppb	42,192.112 ppb	290.726 %
Concentration per Run 3	113.647 %	133.488 %	5.280 ppb	364,780.152 ppb	24,627.988 ppb	52,426.213 ppb	17,036.255 ppb	42,018.375 ppb	292.405 %
Concentration RSD	1.9 %	3.2 %	2.6 %	1.6 %	1.0 %	2.9 %	2.0 %	0.2 %	1.4 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	95.199 ppb	86.136 ppb	6,595.570 ppb	74,241.581 ppb	157.211 ppb	83.952 ppb	53.746 ppb	3,391.034 ppb	123.718 %
Concentration per Run 1	95.073 ppb	86.007 ppb	6,552.793 ppb	74,596.894 ppb	157.941 ppb	84.786 ppb	54.661 ppb	3,427.818 ppb	122.785 %
Concentration per Run 2	94.872 ppb	85.933 ppb	6,624.615 ppb	74,433.781 ppb	156.604 ppb	83.316 ppb	52.792 ppb	3,372.613 ppb	124.561 %
Concentration per Run 3	95.653 ppb	86.468 ppb	6,609.302 ppb	73,694.068 ppb	157.088 ppb	83.754 ppb	53.784 ppb	3,372.672 ppb	123.807 %
Concentration RSD	0.4 %	0.3 %	0.6 %	0.6 %	0.4 %	0.9 %	1.7 %	0.9 %	0.7 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	14.143 ppb	46.710 ppb	395.228 ppb	1.169 ppb	72.155 %	0.106 ppb	9.581 ppb	70.492 %	0.072 ppb
Concentration per Run 1	14.200 ppb	46.574 ppb	396.111 ppb	1.051 ppb	71.748 %	0.103 ppb	9.723 ppb	69.910 %	0.074 ppb
Concentration per Run 2	14.313 ppb	48.022 ppb	393.068 ppb	1.066 ppb	72.559 %	0.100 ppb	9.397 ppb	70.382 %	0.084 ppb
Concentration per Run 3	13.917 ppb	45.534 ppb	396.507 ppb	1.389 ppb	72.158 %	0.114 ppb	9.623 ppb	71.183 %	0.057 ppb
Concentration RSD	1.4 %	2.7 %	0.5 %	16.4 %	0.6 %	6.9 %	1.7 %	0.9 %	19.5 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	396.158 ppb	122.835 %	103.276 %	0.533 ppb	69.393 ppb
Concentration per Run 1	401.537 ppb	121.534 %	102.637 %	0.528 ppb	70.113 ppb
Concentration per Run 2	395.124 ppb	122.414 %	101.305 %	0.541 ppb	70.990 ppb
Concentration per Run 3	391.814 ppb	124.555 %	105.887 %	0.528 ppb	67.076 ppb
Concentration RSD	1.2 %	1.3 %	2.3 %	1.4 %	3.0 %

Alpha ICPMSQ Data with SRD

3/6/2024 5:52:11 AM

Analysis index:	37	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	L2410843-09 6020TL	Rack	2		
Analysis started at:	3/5/2024 8:24:34 PM	Vial	43		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	118.827 %	146.347 %	1.591 ppb	101,616.727 ppb	15,961.412 ppb	11,949.511 ppb	9,321.708 ppb	29,449.858 ppb	170.336 %
Concentration per Run 1	120.659 %	131.545 %	1.528 ppb	110,902.943 ppb	17,131.974 ppb	12,808.848 ppb	9,920.344 ppb	31,402.385 ppb	170.560 %
Concentration per Run 2	118.380 %	152.360 %	1.627 ppb	97,489.472 ppb	15,425.267 ppb	11,557.989 ppb	9,002.221 ppb	28,876.852 ppb	169.863 %
Concentration per Run 3	117.442 %	155.135 %	1.619 ppb	96,457.767 ppb	15,326.996 ppb	11,481.696 ppb	9,042.560 ppb	28,070.336 ppb	170.586 %
Concentration RSD	1.4 %	8.8 %	3.5 %	7.9 %	6.4 %	6.2 %	5.6 %	5.9 %	0.2 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	32.746 ppb	52.172 ppb	687.876 ppb	143,322.158 ppb	19.260 ppb	33.768 ppb	53.572 ppb	148.564 ppb	114.119 %
Concentration per Run 1	34.453 ppb	55.219 ppb	724.355 ppb	149,846.813 ppb	20.305 ppb	35.646 ppb	55.814 ppb	154.580 ppb	111.066 %
Concentration per Run 2	32.266 ppb	51.294 ppb	675.287 ppb	141,254.648 ppb	18.911 ppb	32.675 ppb	52.810 ppb	145.709 ppb	115.139 %
Concentration per Run 3	31.519 ppb	50.004 ppb	663.987 ppb	138,865.013 ppb	18.563 ppb	32.983 ppb	52.092 ppb	145.402 ppb	116.151 %
Concentration RSD	4.7 %	5.2 %	4.7 %	4.0 %	4.8 %	4.8 %	3.7 %	3.5 %	2.4 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	4.609 ppb	4.179 ppb	587.176 ppb	0.073 ppb	75.283 %	0.093 ppb	0.229 ppb	73.977 %	-0.023 ppb
Concentration per Run 1	4.676 ppb	4.153 ppb	596.522 ppb	0.064 ppb	74.097 %	0.096 ppb	0.221 ppb	72.992 %	-0.015 ppb
Concentration per Run 2	4.639 ppb	4.737 ppb	575.200 ppb	0.033 ppb	76.182 %	0.088 ppb	0.232 ppb	74.815 %	-0.038 ppb
Concentration per Run 3	4.511 ppb	3.646 ppb	589.807 ppb	0.124 ppb	75.571 %	0.095 ppb	0.232 ppb	74.126 %	-0.016 ppb
Concentration RSD	1.9 %	13.1 %	1.9 %	62.5 %	1.4 %	4.8 %	2.9 %	1.2 %	58.6 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	526.679 ppb	97.743 %	94.936 %	0.210 ppb	32.671 ppb
Concentration per Run 1	526.019 ppb	97.941 %	93.434 %	0.201 ppb	33.113 ppb
Concentration per Run 2	510.636 ppb	98.403 %	96.329 %	0.214 ppb	32.138 ppb
Concentration per Run 3	543.382 ppb	96.886 %	95.046 %	0.216 ppb	32.761 ppb
Concentration RSD	3.1 %	0.8 %	1.5 %	4.0 %	1.5 %

Alpha ICPMSQ Data with SRD

3/6/2024 5:52:11 AM

Analysis index:	38	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	CCV	Rack	0		
Analysis started at:	3/5/2024 8:29:13 PM	Vial	9		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	104.438 %	128.585 %	60.469 ppb	6,027.477 ppb	6,006.032 ppb	59.055 ppb	6,021.402 ppb	5,741.264 ppb	128.047 %
Concentration per Run 1	106.774 %	126.272 %	60.511 ppb	5,915.764 ppb	5,903.400 ppb	53.281 ppb	5,921.902 ppb	5,530.791 ppb	129.787 %
Concentration per Run 2	104.253 %	120.444 %	60.564 ppb	6,497.110 ppb	6,523.297 ppb	65.745 ppb	6,311.494 ppb	6,130.101 ppb	127.865 %
Concentration per Run 3	102.287 %	139.038 %	60.332 ppb	5,669.556 ppb	5,591.400 ppb	58.139 ppb	5,830.811 ppb	5,562.899 ppb	126.490 %
Recovery Percentage 1			100.782 %	100.458 %	100.101 %	98.425 %	100.357 %	95.688 %	
Concentration RSD	2.2 %	7.4 %	0.2 %	7.0 %	7.9 %	10.6 %	4.2 %	5.9 %	1.3 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	59.951 ppb	59.102 ppb	60.052 ppb	6,173.084 ppb	62.364 ppb	63.243 ppb	62.860 ppb	62.647 ppb	117.750 %
Concentration per Run 1	61.643 ppb	60.720 ppb	59.291 ppb	6,288.932 ppb	64.740 ppb	66.111 ppb	67.029 ppb	65.307 ppb	112.041 %
Concentration per Run 2	59.842 ppb	60.470 ppb	63.036 ppb	6,376.292 ppb	63.478 ppb	63.544 ppb	62.323 ppb	63.260 ppb	119.472 %
Concentration per Run 3	58.367 ppb	56.116 ppb	57.830 ppb	5,854.028 ppb	58.875 ppb	60.075 ppb	59.227 ppb	59.375 ppb	121.738 %
Recovery Percentage 1	99.918 %	98.503 %	100.087 %	102.885 %	103.940 %	105.405 %	104.766 %	104.412 %	
Concentration RSD	2.7 %	4.4 %	4.5 %	4.5 %	5.0 %	4.8 %	6.2 %	4.8 %	4.3 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	61.987 ppb	63.976 ppb	58.082 ppb	60.245 ppb	82.260 %	61.404 ppb	60.771 ppb	75.844 %	63.158 ppb
Concentration per Run 1	63.228 ppb	65.068 ppb	58.847 ppb	62.394 ppb	77.694 %	65.623 ppb	65.169 ppb	66.657 %	68.763 ppb
Concentration per Run 2	62.156 ppb	64.938 ppb	58.755 ppb	60.503 ppb	81.808 %	62.243 ppb	62.089 ppb	74.974 %	65.216 ppb
Concentration per Run 3	60.576 ppb	61.921 ppb	56.644 ppb	57.839 ppb	87.279 %	56.345 ppb	55.056 ppb	85.900 %	55.493 ppb
Recovery Percentage 1	103.312 %	106.626 %	96.803 %	100.409 %		102.340 %	101.285 %		105.263 %
Concentration RSD	2.2 %	2.8 %	2.1 %	3.8 %	5.8 %	7.6 %	8.5 %	12.7 %	10.9 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	65.868 ppb	97.743 %	93.125 %	61.009 ppb	62.439 ppb
Concentration per Run 1	69.156 ppb	90.441 %	85.942 %	64.194 ppb	66.388 ppb
Concentration per Run 2	69.160 ppb	96.125 %	91.832 %	61.873 ppb	63.635 ppb
Concentration per Run 3	59.288 ppb	106.662 %	101.601 %	56.959 ppb	57.295 ppb
Recovery Percentage 1	109.779 %			101.681 %	104.066 %
Concentration RSD	8.7 %	8.4 %	8.5 %	6.1 %	7.5 %

Alpha ICPMSQ Data with SRD

3/6/2024 5:52:11 AM

Analysis index:	39	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	CCB	Rack	0		
Analysis started at:	3/5/2024 8:33:55 PM	Vial	10		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	102.339 %	131.453 %	0.008 ppb	-4.925 ppb	-0.739 ppb	-0.334 ppb	3.573 ppb	0.214 ppb	112.175 %
Concentration per Run 1	103.759 %	130.435 %	0.000 ppb	-4.276 ppb	-0.795 ppb	0.094 ppb	1.735 ppb	-0.461 ppb	111.717 %
Concentration per Run 2	102.044 %	131.268 %	0.014 ppb	-6.415 ppb	-0.393 ppb	-0.427 ppb	2.095 ppb	3.167 ppb	112.085 %
Concentration per Run 3	101.215 %	132.655 %	0.010 ppb	-4.084 ppb	-1.029 ppb	-0.670 ppb	6.888 ppb	-2.064 ppb	112.722 %
Recovery Percentage 1			1.517 %	-4.925 %	-1.056 %	-3.344 %	3.573 %	0.214 %	
Concentration RSD	1.3 %	0.9 %	94.1 %	26.3 %	43.5 %	116.7 %	80.5 %	1,251.3 %	0.5 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.038 ppb	0.018 ppb	0.010 ppb	23.328 ppb	0.005 ppb	0.011 ppb	-0.023 ppb	0.199 ppb	114.922 %
Concentration per Run 1	0.030 ppb	0.035 ppb	-0.015 ppb	27.151 ppb	0.007 ppb	0.022 ppb	-0.021 ppb	0.248 ppb	106.905 %
Concentration per Run 2	0.049 ppb	0.012 ppb	-0.004 ppb	22.482 ppb	0.003 ppb	0.002 ppb	-0.029 ppb	0.160 ppb	120.045 %
Concentration per Run 3	0.035 ppb	0.006 ppb	0.049 ppb	20.351 ppb	0.005 ppb	0.009 ppb	-0.019 ppb	0.190 ppb	117.816 %
Recovery Percentage 1	0.756 %	1.766 %	0.999 %	46.656 %	0.985 %	0.558 %	-2.279 %	3.982 %	
Concentration RSD	25.8 %	87.4 %	343.6 %	14.9 %	43.7 %	91.3 %	22.2 %	22.5 %	6.1 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.055 ppb	0.256 ppb	0.006 ppb	0.687 ppb	82.003 %	0.000 ppb	0.009 ppb	75.110 %	0.408 ppb
Concentration per Run 1	0.025 ppb	0.103 ppb	0.009 ppb	0.658 ppb	79.842 %	0.003 ppb	0.011 ppb	71.119 %	0.417 ppb
Concentration per Run 2	0.008 ppb	0.135 ppb	0.008 ppb	0.652 ppb	83.714 %	-0.002 ppb	0.007 ppb	77.093 %	0.447 ppb
Concentration per Run 3	0.133 ppb	0.531 ppb	0.001 ppb	0.749 ppb	82.453 %	-0.001 ppb	0.007 ppb	77.118 %	0.360 ppb
Recovery Percentage 1	11.033 %	5.129 %	0.058 %	34.328 %		0.043 %	4.281 %		10.202 %
Concentration RSD	122.9 %	92.8 %	75.0 %	7.9 %	2.4 %	1,498.0 %	29.0 %	4.6 %	10.7 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	-0.099 ppb	96.259 %	90.503 %	0.280 ppb	0.024 ppb
Concentration per Run 1	-0.093 ppb	93.326 %	85.734 %	0.256 ppb	0.028 ppb
Concentration per Run 2	-0.102 ppb	98.068 %	93.573 %	0.324 ppb	0.023 ppb
Concentration per Run 3	-0.101 ppb	97.384 %	92.201 %	0.259 ppb	0.022 ppb
Recovery Percentage 1	-19.762 %			27.977 %	2.433 %
Concentration RSD	4.9 %	2.7 %	4.6 %	13.6 %	13.7 %

Alpha ICPMSQ Data with SRD

3/6/2024 5:52:11 AM

Analysis index:	40	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	WG1892091-1 6020TL	Rack	2		
Analysis started at:	3/5/2024 8:42:27 PM	Vial	46		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	109.309 %	133.950 %	-0.001 ppb	-10.181 ppb	1.344 ppb	2.343 ppb	2.803 ppb	16.315 ppb	119.616 %
Concentration per Run 1	111.331 %	132.100 %	-0.003 ppb	-9.006 ppb	1.287 ppb	2.224 ppb	4.773 ppb	9.583 ppb	120.813 %
Concentration per Run 2	108.920 %	135.708 %	-0.007 ppb	-12.397 ppb	2.117 ppb	1.985 ppb	-1.635 ppb	19.485 ppb	119.271 %
Concentration per Run 3	107.676 %	134.043 %	0.006 ppb	-9.140 ppb	0.629 ppb	2.821 ppb	5.271 ppb	19.877 ppb	118.764 %
Concentration RSD	1.7 %	1.3 %	634.8 %	18.9 %	55.5 %	18.4 %	137.4 %	35.8 %	0.9 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.013 ppb	0.052 ppb	0.169 ppb	5.440 ppb	0.001 ppb	0.011 ppb	-0.016 ppb	0.673 ppb	117.443 %
Concentration per Run 1	0.020 ppb	0.037 ppb	0.153 ppb	3.790 ppb	-0.001 ppb	0.008 ppb	-0.021 ppb	0.656 ppb	119.978 %
Concentration per Run 2	0.006 ppb	0.052 ppb	0.229 ppb	3.484 ppb	0.003 ppb	0.012 ppb	-0.011 ppb	0.679 ppb	111.619 %
Concentration per Run 3	0.013 ppb	0.066 ppb	0.125 ppb	9.045 ppb	-0.001 ppb	0.014 ppb	-0.017 ppb	0.684 ppb	120.734 %
Concentration RSD	53.8 %	28.0 %	31.9 %	57.5 %	430.2 %	25.0 %	28.8 %	2.2 %	4.3 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	-0.026 ppb	0.038 ppb	0.032 ppb	0.016 ppb	85.775 %	-0.003 ppb	0.001 ppb	80.373 %	0.037 ppb
Concentration per Run 1	-0.001 ppb	-0.015 ppb	0.032 ppb	0.001 ppb	87.376 %	-0.003 ppb	0.002 ppb	82.077 %	0.023 ppb
Concentration per Run 2	-0.027 ppb	0.090 ppb	0.031 ppb	0.032 ppb	83.026 %	-0.003 ppb	0.000 ppb	77.846 %	0.046 ppb
Concentration per Run 3	-0.049 ppb	0.039 ppb	0.034 ppb	0.015 ppb	86.925 %	-0.002 ppb	0.000 ppb	81.196 %	0.042 ppb
Concentration RSD	93.1 %	139.1 %	4.3 %	96.5 %	2.8 %	21.7 %	173.2 %	2.8 %	34.1 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	-0.091 ppb	99.757 %	93.198 %	0.012 ppb	0.008 ppb
Concentration per Run 1	-0.082 ppb	100.149 %	95.815 %	-0.003 ppb	0.005 ppb
Concentration per Run 2	-0.087 ppb	96.433 %	88.470 %	0.022 ppb	0.010 ppb
Concentration per Run 3	-0.103 ppb	102.688 %	95.309 %	0.018 ppb	0.008 ppb
Concentration RSD	11.8 %	3.2 %	4.4 %	105.6 %	28.0 %

Alpha ICPMSQ Data with SRD

3/6/2024 5:52:11 AM

Analysis index:	41	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	WG1892091-2d10 6020TL	Rack	2		
Analysis started at:	3/5/2024 8:52:38 PM	Vial	47		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	108.999 %	141.351 %	5.283 ppb	1,003.099 ppb	974.644 ppb	196.215 ppb	1,001.220 ppb	1,069.151 ppb	123.702 %
Concentration per Run 1	110.622 %	141.536 %	5.265 ppb	1,000.845 ppb	954.967 ppb	199.610 ppb	1,003.709 ppb	1,094.292 ppb	125.488 %
Concentration per Run 2	109.154 %	137.373 %	5.306 ppb	1,031.657 ppb	1,006.028 ppb	202.174 ppb	1,012.156 ppb	1,123.249 ppb	122.827 %
Concentration per Run 3	107.223 %	145.144 %	5.277 ppb	976.795 ppb	962.937 ppb	186.859 ppb	987.795 ppb	989.912 ppb	122.791 %
Concentration RSD	1.6 %	2.8 %	0.4 %	2.7 %	2.8 %	4.2 %	1.2 %	6.6 %	1.3 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	49.344 ppb	19.986 ppb	52.127 ppb	113.185 ppb	53.938 ppb	54.750 ppb	26.983 ppb	53.354 ppb	123.202 %
Concentration per Run 1	50.183 ppb	19.975 ppb	51.917 ppb	113.449 ppb	54.292 ppb	55.881 ppb	27.384 ppb	54.159 ppb	122.877 %
Concentration per Run 2	50.486 ppb	20.705 ppb	53.337 ppb	115.502 ppb	55.248 ppb	55.657 ppb	27.420 ppb	54.455 ppb	120.226 %
Concentration per Run 3	47.362 ppb	19.278 ppb	51.127 ppb	110.602 ppb	52.274 ppb	52.713 ppb	26.145 ppb	51.448 ppb	126.503 %
Concentration RSD	3.5 %	3.6 %	2.1 %	2.2 %	2.8 %	3.2 %	2.7 %	3.1 %	2.6 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	12.299 ppb	13.118 ppb	96.785 ppb	103.845 ppb	87.142 %	5.038 ppb	5.304 ppb	81.988 %	47.701 ppb
Concentration per Run 1	12.523 ppb	12.191 ppb	96.533 ppb	103.489 ppb	86.347 %	5.072 ppb	5.345 ppb	83.114 %	46.817 ppb
Concentration per Run 2	12.304 ppb	14.077 ppb	98.669 ppb	104.375 ppb	86.883 %	5.128 ppb	5.255 ppb	81.378 %	48.119 ppb
Concentration per Run 3	12.071 ppb	13.084 ppb	95.153 ppb	103.671 ppb	88.196 %	4.915 ppb	5.313 ppb	81.473 %	48.167 ppb
Concentration RSD	1.8 %	7.2 %	1.8 %	0.5 %	1.1 %	2.2 %	0.9 %	1.2 %	1.6 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	243.308 ppb	102.695 %	96.246 %	12.180 ppb	56.185 ppb
Concentration per Run 1	239.199 ppb	102.853 %	95.543 %	12.273 ppb	56.871 ppb
Concentration per Run 2	242.504 ppb	102.795 %	96.228 %	12.219 ppb	56.477 ppb
Concentration per Run 3	248.222 ppb	102.438 %	96.966 %	12.047 ppb	55.207 ppb
Concentration RSD	1.9 %	0.2 %	0.7 %	1.0 %	1.5 %

Alpha ICPMSQ Data with SRD

3/6/2024 5:52:11 AM

Analysis index:	42	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	WG1892091-3d10 6020TL	Rack	2		
Analysis started at:	3/5/2024 8:57:14 PM	Vial	49		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	104.559 %	139.223 %	5.367 ppb	1,290.419 ppb	1,104.622 ppb	207.430 ppb	1,062.225 ppb	1,449.028 ppb	116.529 %
Concentration per Run 1	106.877 %	142.924 %	5.375 ppb	1,254.292 ppb	1,079.795 ppb	205.522 ppb	1,109.971 ppb	1,551.760 ppb	118.103 %
Concentration per Run 2	103.144 %	139.316 %	5.416 ppb	1,291.539 ppb	1,099.085 ppb	205.542 ppb	1,029.417 ppb	1,374.156 ppb	115.666 %
Concentration per Run 3	103.655 %	135.431 %	5.310 ppb	1,325.426 ppb	1,134.986 ppb	211.225 ppb	1,047.287 ppb	1,421.169 ppb	115.820 %
Concentration RSD	1.9 %	2.7 %	1.0 %	2.8 %	2.5 %	1.6 %	4.0 %	6.4 %	1.2 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	50.696 ppb	20.249 ppb	56.205 ppb	173.903 ppb	54.989 ppb	55.647 ppb	29.480 ppb	63.443 ppb	119.417 %
Concentration per Run 1	50.262 ppb	20.644 ppb	58.530 ppb	173.505 ppb	56.363 ppb	58.554 ppb	31.187 ppb	65.652 ppb	116.407 %
Concentration per Run 2	50.603 ppb	20.106 ppb	55.963 ppb	174.829 ppb	55.240 ppb	53.861 ppb	29.309 ppb	62.746 ppb	120.233 %
Concentration per Run 3	51.224 ppb	19.998 ppb	54.123 ppb	173.376 ppb	53.364 ppb	54.526 ppb	27.944 ppb	61.930 ppb	121.610 %
Concentration RSD	1.0 %	1.7 %	3.9 %	0.5 %	2.8 %	4.6 %	5.5 %	3.1 %	2.3 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	12.409 ppb	13.563 ppb	106.308 ppb	100.971 ppb	84.222 %	5.091 ppb	5.480 ppb	78.745 %	47.675 ppb
Concentration per Run 1	12.850 ppb	13.152 ppb	109.932 ppb	101.401 ppb	81.971 %	5.242 ppb	5.625 ppb	78.143 %	48.100 ppb
Concentration per Run 2	12.529 ppb	15.345 ppb	105.294 ppb	99.472 ppb	83.719 %	5.012 ppb	5.482 ppb	79.230 %	47.410 ppb
Concentration per Run 3	11.848 ppb	12.190 ppb	103.698 ppb	102.041 ppb	86.977 %	5.021 ppb	5.334 ppb	78.861 %	47.514 ppb
Concentration RSD	4.1 %	11.9 %	3.0 %	1.3 %	3.0 %	2.6 %	2.7 %	0.7 %	0.8 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	252.709 ppb	102.755 %	95.154 %	12.315 ppb	56.238 ppb
Concentration per Run 1	254.447 ppb	101.072 %	91.914 %	12.871 ppb	58.580 ppb
Concentration per Run 2	253.186 ppb	101.023 %	96.362 %	12.222 ppb	55.346 ppb
Concentration per Run 3	250.495 ppb	106.171 %	97.185 %	11.852 ppb	54.788 ppb
Concentration RSD	0.8 %	2.9 %	3.0 %	4.2 %	3.6 %

Alpha ICPMSQ Data with SRD

3/6/2024 5:52:11 AM

Analysis index: 43
Analysis label: WG1892091-5d10 6020TL
Analysis started at: 3/5/2024 9:01:53 PM
User name ALPHALAB\Metals-Instrument
Rack 2
Vial 51
Comment <Comment>

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	100.797 %	121.554 %	49.762 ppb	5,419.314 ppb	5,270.830 ppb	54.208 ppb	5,063.998 ppb	4,994.704 ppb	115.266 %
Concentration per Run 1	103.449 %	120.444 %	49.925 ppb	5,498.783 ppb	5,320.528 ppb	55.308 ppb	5,183.018 ppb	5,109.396 ppb	116.952 %
Concentration per Run 2	99.051 %	124.052 %	49.021 ppb	5,311.924 ppb	5,131.949 ppb	51.331 ppb	4,746.856 ppb	4,715.866 ppb	113.146 %
Concentration per Run 3	99.892 %	120.167 %	50.340 ppb	5,447.234 ppb	5,360.012 ppb	55.986 ppb	5,262.119 ppb	5,158.851 ppb	115.699 %
Concentration RSD	2.3 %	1.8 %	1.4 %	1.8 %	2.3 %	4.6 %	5.5 %	4.9 %	1.7 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	49.853 ppb	48.974 ppb	53.390 ppb	5,025.879 ppb	51.075 ppb	51.645 ppb	52.844 ppb	59.375 ppb	116.795 %
Concentration per Run 1	51.657 ppb	50.232 ppb	52.674 ppb	5,047.046 ppb	52.713 ppb	53.317 ppb	53.598 ppb	59.729 ppb	116.801 %
Concentration per Run 2	48.371 ppb	47.227 ppb	52.509 ppb	4,915.663 ppb	49.914 ppb	49.856 ppb	51.859 ppb	57.747 ppb	119.589 %
Concentration per Run 3	49.531 ppb	49.463 ppb	54.987 ppb	5,114.929 ppb	50.599 ppb	51.763 ppb	53.074 ppb	60.649 ppb	113.994 %
Concentration RSD	3.3 %	3.2 %	2.6 %	2.0 %	2.9 %	3.4 %	1.7 %	2.5 %	2.4 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	50.484 ppb	53.719 ppb	58.562 ppb	51.252 ppb	82.442 %	0.574 ppb	49.431 ppb	76.985 %	57.492 ppb
Concentration per Run 1	51.200 ppb	53.389 ppb	58.876 ppb	50.686 ppb	81.821 %	0.560 ppb	50.564 ppb	75.676 %	58.826 ppb
Concentration per Run 2	49.351 ppb	52.480 ppb	57.985 ppb	50.739 ppb	83.065 %	0.568 ppb	48.552 ppb	77.620 %	57.359 ppb
Concentration per Run 3	50.899 ppb	55.288 ppb	58.824 ppb	52.332 ppb	82.439 %	0.595 ppb	49.176 ppb	77.660 %	56.290 ppb
Concentration RSD	2.0 %	2.7 %	0.9 %	1.8 %	0.8 %	3.1 %	2.1 %	1.5 %	2.2 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	62.635 ppb	99.001 %	93.233 %	48.498 ppb	51.898 ppb
Concentration per Run 1	63.658 ppb	96.469 %	89.068 %	50.276 ppb	54.420 ppb
Concentration per Run 2	61.252 ppb	99.266 %	95.151 %	47.415 ppb	50.809 ppb
Concentration per Run 3	62.996 ppb	101.268 %	95.481 %	47.802 ppb	50.465 ppb
Concentration RSD	2.0 %	2.4 %	3.9 %	3.2 %	4.2 %

Alpha ICPMSQ Data with SRD

3/6/2024 5:52:11 AM

Analysis index:	44	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	WG1892091-4 6020TL	Rack	2		
Analysis started at:	3/5/2024 9:06:32 PM	Vial	50		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	102.817 %	134.691 %	0.001 ppb	2,485.999 ppb	1,109.657 ppb	16.032 ppb	727.842 ppb	4,619.998 ppb	115.066 %
Concentration per Run 1	104.720 %	137.373 %	0.003 ppb	2,445.595 ppb	1,115.490 ppb	16.230 ppb	685.656 ppb	4,480.874 ppb	115.229 %
Concentration per Run 2	102.662 %	134.598 %	-0.004 ppb	2,474.419 ppb	1,097.880 ppb	15.875 ppb	740.102 ppb	4,647.218 ppb	116.127 %
Concentration per Run 3	101.069 %	132.100 %	0.002 ppb	2,537.984 ppb	1,115.601 ppb	15.991 ppb	757.768 ppb	4,731.901 ppb	113.842 %
Concentration RSD	1.8 %	2.0 %	707.1 %	1.9 %	0.9 %	1.1 %	5.2 %	2.8 %	1.0 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.290 ppb	1.075 ppb	30.528 ppb	580.183 ppb	0.187 ppb	4.666 ppb	18.022 ppb	84.734 ppb	117.292 %
Concentration per Run 1	0.292 ppb	1.110 ppb	30.503 ppb	571.747 ppb	0.223 ppb	4.835 ppb	17.950 ppb	83.682 ppb	117.536 %
Concentration per Run 2	0.270 ppb	1.054 ppb	31.775 ppb	602.646 ppb	0.154 ppb	4.839 ppb	18.420 ppb	86.497 ppb	114.814 %
Concentration per Run 3	0.308 ppb	1.063 ppb	29.306 ppb	566.156 ppb	0.184 ppb	4.323 ppb	17.695 ppb	84.023 ppb	119.525 %
Concentration RSD	6.6 %	2.8 %	4.0 %	3.4 %	18.6 %	6.4 %	2.0 %	1.8 %	2.0 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.403 ppb	0.549 ppb	82.662 ppb	1.929 ppb	83.395 %	0.000 ppb	0.663 ppb	79.563 %	1.177 ppb
Concentration per Run 1	0.348 ppb	0.729 ppb	81.871 ppb	1.767 ppb	85.004 %	0.001 ppb	0.671 ppb	82.866 %	1.074 ppb
Concentration per Run 2	0.442 ppb	0.445 ppb	83.598 ppb	2.119 ppb	82.726 %	0.001 ppb	0.704 ppb	77.860 %	1.210 ppb
Concentration per Run 3	0.420 ppb	0.472 ppb	82.516 ppb	1.901 ppb	82.454 %	-0.001 ppb	0.614 ppb	77.965 %	1.246 ppb
Concentration RSD	12.1 %	28.5 %	1.1 %	9.2 %	1.7 %	500.7 %	6.9 %	3.6 %	7.7 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	35.960 ppb	100.787 %	93.865 %	0.314 ppb	1.523 ppb
Concentration per Run 1	33.756 ppb	102.075 %	95.310 %	0.276 ppb	1.519 ppb
Concentration per Run 2	37.078 ppb	99.637 %	93.460 %	0.372 ppb	1.520 ppb
Concentration per Run 3	37.045 ppb	100.648 %	92.825 %	0.294 ppb	1.529 ppb
Concentration RSD	5.3 %	1.2 %	1.4 %	16.1 %	0.4 %

Alpha ICPMSQ Data with SRD

3/6/2024 5:52:11 AM

Analysis index:	45	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	I2411340-01 6020TL	Rack	2		
Analysis started at:	3/5/2024 9:11:11 PM	Vial	48		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	103.415 %	132.748 %	0.004 ppb	2,571.253 ppb	1,159.286 ppb	17.415 ppb	771.031 ppb	4,651.212 ppb	110.391 %
Concentration per Run 1	105.776 %	124.330 %	0.006 ppb	2,637.707 ppb	1,190.803 ppb	15.643 ppb	787.539 ppb	4,642.690 ppb	112.672 %
Concentration per Run 2	102.496 %	132.378 %	-0.001 ppb	2,574.326 ppb	1,130.155 ppb	15.906 ppb	732.306 ppb	4,475.238 ppb	109.504 %
Concentration per Run 3	101.972 %	141.536 %	0.009 ppb	2,501.724 ppb	1,156.901 ppb	20.698 ppb	793.247 ppb	4,835.706 ppb	108.996 %
Concentration RSD	2.0 %	6.5 %	118.0 %	2.6 %	2.6 %	16.3 %	4.4 %	3.9 %	1.8 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.259 ppb	1.169 ppb	31.680 ppb	584.946 ppb	0.168 ppb	4.746 ppb	17.911 ppb	84.617 ppb	118.951 %
Concentration per Run 1	0.212 ppb	1.133 ppb	30.484 ppb	565.435 ppb	0.178 ppb	4.840 ppb	17.569 ppb	83.151 ppb	119.400 %
Concentration per Run 2	0.264 ppb	1.202 ppb	31.680 ppb	611.960 ppb	0.158 ppb	4.703 ppb	19.094 ppb	86.837 ppb	115.045 %
Concentration per Run 3	0.302 ppb	1.171 ppb	32.876 ppb	577.444 ppb	0.169 ppb	4.694 ppb	17.070 ppb	83.864 ppb	122.410 %
Concentration RSD	17.5 %	3.0 %	3.8 %	4.1 %	5.9 %	1.7 %	5.9 %	2.3 %	3.1 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.379 ppb	0.163 ppb	84.370 ppb	1.280 ppb	83.118 %	0.000 ppb	0.697 ppb	81.137 %	0.713 ppb
Concentration per Run 1	0.420 ppb	0.127 ppb	80.038 ppb	1.113 ppb	84.151 %	0.000 ppb	0.700 ppb	78.748 %	0.687 ppb
Concentration per Run 2	0.322 ppb	0.094 ppb	83.815 ppb	1.333 ppb	83.058 %	-0.002 ppb	0.709 ppb	80.721 %	0.690 ppb
Concentration per Run 3	0.396 ppb	0.267 ppb	89.256 ppb	1.395 ppb	82.145 %	0.001 ppb	0.680 ppb	83.941 %	0.763 ppb
Concentration RSD	13.5 %	56.6 %	5.5 %	11.6 %	1.2 %	428.4 %	2.1 %	3.2 %	6.1 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	36.288 ppb	102.282 %	94.974 %	0.067 ppb	1.478 ppb
Concentration per Run 1	35.492 ppb	102.744 %	93.878 %	0.036 ppb	1.488 ppb
Concentration per Run 2	36.539 ppb	102.673 %	96.271 %	0.086 ppb	1.445 ppb
Concentration per Run 3	36.832 ppb	101.430 %	94.774 %	0.079 ppb	1.500 ppb
Concentration RSD	1.9 %	0.7 %	1.3 %	40.0 %	2.0 %

Alpha ICPMSQ Data with SRD

3/6/2024 5:52:11 AM

Analysis index:	46	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	I2411340-02 6020TL	Rack	2		
Analysis started at:	3/5/2024 9:15:50 PM	Vial	53		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	104.264 %	136.171 %	0.003 ppb	2,520.545 ppb	1,276.561 ppb	4.655 ppb	833.260 ppb	4,698.234 ppb	116.084 %
Concentration per Run 1	105.444 %	139.316 %	0.000 ppb	2,399.489 ppb	1,237.357 ppb	3.926 ppb	779.184 ppb	4,493.413 ppb	117.282 %
Concentration per Run 2	104.888 %	132.655 %	0.007 ppb	2,552.330 ppb	1,256.022 ppb	4.764 ppb	845.878 ppb	4,811.121 ppb	115.569 %
Concentration per Run 3	102.461 %	136.541 %	0.003 ppb	2,609.815 ppb	1,336.304 ppb	5.276 ppb	874.718 ppb	4,790.168 ppb	115.400 %
Concentration RSD	1.5 %	2.5 %	110.6 %	4.3 %	4.1 %	14.6 %	5.9 %	3.8 %	0.9 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.091 ppb	0.405 ppb	0.364 ppb	248.677 ppb	0.038 ppb	1.117 ppb	3.364 ppb	5.649 ppb	121.202 %
Concentration per Run 1	0.099 ppb	0.372 ppb	0.364 ppb	248.667 ppb	0.038 ppb	1.183 ppb	3.443 ppb	5.539 ppb	116.507 %
Concentration per Run 2	0.109 ppb	0.422 ppb	0.373 ppb	255.362 ppb	0.035 ppb	1.195 ppb	3.565 ppb	5.830 ppb	115.265 %
Concentration per Run 3	0.065 ppb	0.421 ppb	0.356 ppb	242.002 ppb	0.041 ppb	0.971 ppb	3.082 ppb	5.578 ppb	131.833 %
Concentration RSD	25.5 %	7.0 %	2.3 %	2.7 %	8.4 %	11.3 %	7.5 %	2.8 %	7.6 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.197 ppb	0.120 ppb	86.224 ppb	0.200 ppb	85.592 %	-0.001 ppb	0.013 ppb	83.189 %	0.335 ppb
Concentration per Run 1	0.189 ppb	0.101 ppb	85.029 ppb	0.197 ppb	85.529 %	-0.001 ppb	0.012 ppb	80.446 %	0.305 ppb
Concentration per Run 2	0.229 ppb	0.128 ppb	86.701 ppb	0.194 ppb	83.743 %	0.001 ppb	0.012 ppb	82.462 %	0.318 ppb
Concentration per Run 3	0.173 ppb	0.129 ppb	86.944 ppb	0.210 ppb	87.506 %	-0.002 ppb	0.015 ppb	86.658 %	0.382 ppb
Concentration RSD	14.6 %	13.3 %	1.2 %	4.4 %	2.2 %	147.9 %	11.9 %	3.8 %	12.2 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	0.069 ppb	104.210 %	96.059 %	0.022 ppb	0.564 ppb
Concentration per Run 1	0.026 ppb	101.813 %	91.860 %	0.001 ppb	0.581 ppb
Concentration per Run 2	0.102 ppb	103.563 %	93.789 %	0.035 ppb	0.573 ppb
Concentration per Run 3	0.080 ppb	107.255 %	102.528 %	0.029 ppb	0.537 ppb
Concentration RSD	56.8 %	2.7 %	5.9 %	82.4 %	4.2 %

Alpha ICPMSQ Data with SRD

3/6/2024 5:52:11 AM

Analysis index: 47
Analysis label: I2411340-03 6020TL
Analysis started at: 3/5/2024 9:20:29 PM
User name ALPHALAB\Metals-Instrument
Rack 2
Vial 54
Comment <Comment>

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	102.770 %	127.567 %	0.005 ppb	2,934.712 ppb	1,372.752 ppb	22.113 ppb	1,121.035 ppb	5,774.818 ppb	113.375 %
Concentration per Run 1	104.814 %	129.880 %	0.006 ppb	2,798.246 ppb	1,314.579 ppb	20.351 ppb	1,095.236 ppb	5,430.337 ppb	114.759 %
Concentration per Run 2	101.649 %	123.219 %	0.002 ppb	2,985.741 ppb	1,405.704 ppb	22.660 ppb	1,117.031 ppb	5,912.633 ppb	112.528 %
Concentration per Run 3	101.846 %	129.603 %	0.006 ppb	3,020.150 ppb	1,397.973 ppb	23.329 ppb	1,150.839 ppb	5,981.483 ppb	112.836 %
Concentration RSD	1.7 %	3.0 %	58.1 %	4.1 %	3.7 %	7.1 %	2.5 %	5.2 %	1.1 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.137 ppb	0.198 ppb	1.258 ppb	204.097 ppb	0.141 ppb	0.750 ppb	0.729 ppb	1.228 ppb	120.040 %
Concentration per Run 1	0.106 ppb	0.186 ppb	1.106 ppb	191.397 ppb	0.129 ppb	0.714 ppb	0.743 ppb	1.112 ppb	121.074 %
Concentration per Run 2	0.186 ppb	0.217 ppb	1.425 ppb	204.809 ppb	0.144 ppb	0.803 ppb	0.662 ppb	1.323 ppb	116.924 %
Concentration per Run 3	0.120 ppb	0.190 ppb	1.242 ppb	216.085 ppb	0.150 ppb	0.734 ppb	0.781 ppb	1.250 ppb	122.122 %
Concentration RSD	31.0 %	8.4 %	12.7 %	6.1 %	7.6 %	6.2 %	8.3 %	8.7 %	2.3 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.094 ppb	0.072 ppb	0.945 ppb	0.122 ppb	81.991 %	-0.002 ppb	0.011 ppb	83.172 %	0.195 ppb
Concentration per Run 1	0.043 ppb	0.039 ppb	0.888 ppb	0.066 ppb	82.321 %	-0.002 ppb	0.009 ppb	81.017 %	0.180 ppb
Concentration per Run 2	0.127 ppb	0.093 ppb	0.938 ppb	0.187 ppb	80.096 %	-0.002 ppb	0.016 ppb	81.568 %	0.174 ppb
Concentration per Run 3	0.111 ppb	0.086 ppb	1.011 ppb	0.114 ppb	83.556 %	-0.002 ppb	0.010 ppb	86.931 %	0.230 ppb
Concentration RSD	47.5 %	40.6 %	6.5 %	49.7 %	2.1 %	14.2 %	32.8 %	3.9 %	15.6 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	2.836 ppb	102.457 %	93.604 %	0.016 ppb	0.424 ppb
Concentration per Run 1	2.870 ppb	101.783 %	90.188 %	0.002 ppb	0.448 ppb
Concentration per Run 2	2.825 ppb	99.429 %	93.057 %	0.024 ppb	0.416 ppb
Concentration per Run 3	2.812 ppb	106.160 %	97.568 %	0.024 ppb	0.408 ppb
Concentration RSD	1.1 %	3.3 %	4.0 %	77.4 %	5.0 %

Alpha ICPMSQ Data with SRD

3/6/2024 5:52:11 AM

Analysis index:	48	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	WG1892091-6d5 6020TL	Rack	2		
Analysis started at:	3/5/2024 9:25:08 PM	Vial	52		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	103.023 %	137.466 %	0.000 ppb	495.044 ppb	231.167 ppb	3.841 ppb	156.237 ppb	941.524 ppb	113.302 %
Concentration per Run 1	105.568 %	145.977 %	0.001 ppb	460.731 ppb	215.230 ppb	2.861 ppb	151.163 ppb	819.278 ppb	114.644 %
Concentration per Run 2	102.642 %	129.880 %	-0.002 ppb	504.473 ppb	235.337 ppb	4.638 ppb	154.582 ppb	983.705 ppb	112.418 %
Concentration per Run 3	100.860 %	136.541 %	0.000 ppb	519.929 ppb	242.934 ppb	4.023 ppb	162.966 ppb	1,021.589 ppb	112.843 %
Concentration RSD	2.3 %	5.9 %	356.9 %	6.2 %	6.2 %	23.5 %	3.9 %	11.4 %	1.0 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.171 ppb	0.254 ppb	6.747 ppb	121.959 ppb	0.032 ppb	1.012 ppb	3.584 ppb	17.252 ppb	118.642 %
Concentration per Run 1	0.111 ppb	0.271 ppb	6.061 ppb	119.526 ppb	0.035 ppb	1.017 ppb	3.590 ppb	17.016 ppb	116.157 %
Concentration per Run 2	0.100 ppb	0.268 ppb	7.014 ppb	121.833 ppb	0.027 ppb	0.877 ppb	3.693 ppb	17.275 ppb	118.745 %
Concentration per Run 3	0.302 ppb	0.223 ppb	7.164 ppb	124.518 ppb	0.035 ppb	1.141 ppb	3.469 ppb	17.465 ppb	121.023 %
Concentration RSD	66.2 %	10.5 %	8.9 %	2.0 %	15.1 %	13.1 %	3.1 %	1.3 %	2.1 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.036 ppb	0.058 ppb	16.756 ppb	0.177 ppb	84.053 %	-0.001 ppb	0.128 ppb	80.819 %	0.175 ppb
Concentration per Run 1	0.034 ppb	0.046 ppb	15.952 ppb	0.164 ppb	84.047 %	0.001 ppb	0.112 ppb	78.938 %	0.154 ppb
Concentration per Run 2	0.019 ppb	0.039 ppb	16.112 ppb	0.169 ppb	82.909 %	-0.002 ppb	0.145 ppb	77.819 %	0.191 ppb
Concentration per Run 3	0.056 ppb	0.089 ppb	18.204 ppb	0.199 ppb	85.201 %	-0.001 ppb	0.127 ppb	85.701 %	0.179 ppb
Concentration RSD	51.1 %	46.6 %	7.5 %	10.6 %	1.4 %	154.7 %	13.1 %	5.3 %	10.9 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	7.212 ppb	103.947 %	93.492 %	-0.011 ppb	0.293 ppb
Concentration per Run 1	7.145 ppb	102.766 %	92.260 %	-0.024 ppb	0.297 ppb
Concentration per Run 2	7.101 ppb	103.799 %	89.984 %	-0.001 ppb	0.302 ppb
Concentration per Run 3	7.391 ppb	105.276 %	98.232 %	-0.007 ppb	0.279 ppb
Concentration RSD	2.2 %	1.2 %	4.6 %	111.3 %	4.1 %

Alpha ICPMSQ Data with SRD

3/6/2024 5:52:11 AM

Analysis index:	49	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	CCV	Rack	0		
Analysis started at:	3/5/2024 9:31:49 PM	Vial	9		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	98.691 %	129.048 %	60.698 ppb	5,889.211 ppb	5,833.357 ppb	59.452 ppb	5,838.960 ppb	5,388.977 ppb	120.529 %
Concentration per Run 1	101.020 %	133.765 %	60.987 ppb	5,647.126 ppb	5,545.725 ppb	57.303 ppb	5,643.078 ppb	5,074.897 ppb	122.457 %
Concentration per Run 2	98.679 %	119.057 %	60.560 ppb	6,294.816 ppb	6,327.352 ppb	63.420 ppb	6,354.401 ppb	5,952.411 ppb	121.009 %
Concentration per Run 3	96.374 %	134.320 %	60.547 ppb	5,725.690 ppb	5,626.995 ppb	57.633 ppb	5,519.402 ppb	5,139.622 ppb	118.119 %
Recovery Percentage 1			101.163 %	98.154 %	97.223 %	99.087 %	97.316 %	89.816 %	
Concentration RSD	2.4 %	6.7 %	0.4 %	6.0 %	7.4 %	5.8 %	7.7 %	9.1 %	1.8 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	58.394 ppb	57.542 ppb	58.590 ppb	5,958.194 ppb	60.080 ppb	60.000 ppb	60.913 ppb	60.502 ppb	115.986 %
Concentration per Run 1	58.570 ppb	58.183 ppb	58.384 ppb	6,028.577 ppb	61.755 ppb	61.365 ppb	62.163 ppb	61.257 ppb	111.053 %
Concentration per Run 2	61.316 ppb	59.508 ppb	61.032 ppb	6,048.966 ppb	60.588 ppb	60.583 ppb	60.781 ppb	61.599 ppb	117.417 %
Concentration per Run 3	55.296 ppb	54.935 ppb	56.355 ppb	5,797.039 ppb	57.898 ppb	58.051 ppb	59.797 ppb	58.648 ppb	119.488 %
Recovery Percentage 1	97.323 %	95.904 %	97.651 %	99.303 %	100.134 %	100.000 %	101.522 %	100.836 %	
Concentration RSD	5.2 %	4.1 %	4.0 %	2.3 %	3.3 %	2.9 %	2.0 %	2.7 %	3.8 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	60.174 ppb	64.826 ppb	59.837 ppb	58.177 ppb	79.962 %	60.170 ppb	59.701 ppb	77.723 %	62.588 ppb
Concentration per Run 1	62.231 ppb	64.304 ppb	58.457 ppb	56.544 ppb	80.093 %	60.563 ppb	60.571 ppb	75.697 %	61.900 ppb
Concentration per Run 2	60.063 ppb	61.872 ppb	62.569 ppb	60.217 ppb	81.145 %	59.757 ppb	58.857 ppb	80.949 %	62.526 ppb
Concentration per Run 3	58.228 ppb	68.303 ppb	58.484 ppb	57.769 ppb	78.648 %	60.190 ppb	59.676 ppb	76.523 %	63.338 ppb
Recovery Percentage 1	100.290 %	108.044 %	99.728 %	96.962 %		100.284 %	99.502 %		104.314 %
Concentration RSD	3.3 %	5.0 %	4.0 %	3.2 %	1.6 %	0.7 %	1.4 %	3.6 %	1.2 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	65.634 ppb	100.178 %	92.405 %	60.117 ppb	62.055 ppb
Concentration per Run 1	64.623 ppb	98.218 %	89.572 %	60.671 ppb	63.231 ppb
Concentration per Run 2	66.766 ppb	104.272 %	95.882 %	58.900 ppb	60.857 ppb
Concentration per Run 3	65.514 ppb	98.043 %	91.763 %	60.780 ppb	62.077 ppb
Recovery Percentage 1	109.390 %			100.195 %	103.425 %
Concentration RSD	1.6 %	3.5 %	3.5 %	1.8 %	1.9 %

Alpha ICPMSQ Data with SRD

3/6/2024 5:52:11 AM

Analysis index:	50	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	CCB	Rack	0		
Analysis started at:	3/5/2024 9:36:31 PM	Vial	10		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	95.467 %	124.792 %	0.008 ppb	-12.744 ppb	-0.851 ppb	-0.228 ppb	0.941 ppb	1.550 ppb	103.816 %
Concentration per Run 1	96.699 %	126.550 %	0.007 ppb	-12.000 ppb	-1.010 ppb	0.100 ppb	-1.050 ppb	2.271 ppb	103.652 %
Concentration per Run 2	94.251 %	124.330 %	0.006 ppb	-13.162 ppb	-1.007 ppb	-0.573 ppb	2.760 ppb	-4.691 ppb	102.726 %
Concentration per Run 3	95.451 %	123.497 %	0.011 ppb	-13.071 ppb	-0.536 ppb	-0.211 ppb	1.112 ppb	7.070 ppb	105.069 %
Recovery Percentage 1			1.602 %	-12.744 %	-1.215 %	-2.280 %	0.941 %	1.550 %	
Concentration RSD	1.3 %	1.3 %	31.5 %	5.1 %	32.1 %	147.6 %	203.1 %	381.6 %	1.1 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.001 ppb	0.012 ppb	0.022 ppb	11.280 ppb	0.005 ppb	0.019 ppb	-0.056 ppb	0.116 ppb	111.569 %
Concentration per Run 1	-0.001 ppb	0.024 ppb	-0.016 ppb	9.614 ppb	0.003 ppb	-0.020 ppb	-0.058 ppb	0.092 ppb	113.318 %
Concentration per Run 2	0.006 ppb	0.002 ppb	0.038 ppb	10.459 ppb	0.001 ppb	0.030 ppb	-0.072 ppb	0.134 ppb	116.362 %
Concentration per Run 3	-0.001 ppb	0.011 ppb	0.044 ppb	13.767 ppb	0.009 ppb	0.046 ppb	-0.037 ppb	0.123 ppb	105.027 %
Recovery Percentage 1	0.028 %	1.233 %	2.224 %	22.560 %	0.906 %	0.926 %	-5.573 %	2.329 %	
Concentration RSD	295.8 %	89.6 %	149.1 %	19.5 %	95.7 %	186.7 %	31.8 %	18.7 %	5.3 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.060 ppb	0.295 ppb	0.004 ppb	0.788 ppb	79.458 %	0.001 ppb	0.006 ppb	76.954 %	0.533 ppb
Concentration per Run 1	0.045 ppb	0.306 ppb	0.002 ppb	0.816 ppb	79.494 %	0.001 ppb	0.005 ppb	76.853 %	0.507 ppb
Concentration per Run 2	0.038 ppb	0.485 ppb	0.002 ppb	0.803 ppb	80.704 %	-0.001 ppb	0.005 ppb	80.918 %	0.527 ppb
Concentration per Run 3	0.097 ppb	0.095 ppb	0.007 ppb	0.745 ppb	78.175 %	0.002 ppb	0.008 ppb	73.090 %	0.564 ppb
Recovery Percentage 1	12.035 %	5.906 %	0.037 %	39.410 %		0.180 %	3.036 %		13.313 %
Concentration RSD	54.0 %	66.1 %	73.6 %	4.8 %	1.6 %	180.8 %	21.0 %	5.1 %	5.5 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	-0.093 ppb	98.305 %	88.612 %	0.316 ppb	0.018 ppb
Concentration per Run 1	-0.082 ppb	97.986 %	87.538 %	0.299 ppb	0.023 ppb
Concentration per Run 2	-0.097 ppb	101.877 %	92.878 %	0.349 ppb	0.013 ppb
Concentration per Run 3	-0.101 ppb	95.053 %	85.422 %	0.301 ppb	0.018 ppb
Recovery Percentage 1	-18.637 %			31.630 %	1.781 %
Concentration RSD	10.4 %	3.5 %	4.3 %	9.0 %	28.3 %

Alpha ICPMSQ Data with SRD

3/6/2024 5:52:11 AM

Analysis index:	51	User name	ALPHALAB\Metals-Instrument	Comment	fb
Analysis label:	L2410843-11 6020SL	Rack	3		
Analysis started at:	3/5/2024 9:42:34 PM	Vial	4		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	101.308 %	121.832 %	-0.001 ppb	547.224 ppb	12.600 ppb	3.593 ppb	7.639 ppb	56.941 ppb	116.983 %
Concentration per Run 1	102.550 %	122.387 %	-0.004 ppb	543.889 ppb	10.144 ppb	4.689 ppb	3.021 ppb	60.426 ppb	116.388 %
Concentration per Run 2	101.151 %	119.334 %	0.000 ppb	531.147 ppb	11.197 ppb	2.668 ppb	3.679 ppb	59.746 ppb	117.961 %
Concentration per Run 3	100.223 %	123.775 %	0.003 ppb	566.636 ppb	16.460 ppb	3.423 ppb	16.216 ppb	50.652 ppb	116.600 %
Concentration RSD	1.2 %	1.9 %	592.7 %	3.3 %	26.9 %	28.4 %	97.3 %	9.6 %	0.7 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.053 ppb	0.227 ppb	0.135 ppb	7.976 ppb	0.008 ppb	0.065 ppb	0.404 ppb	0.771 ppb	111.560 %
Concentration per Run 1	0.035 ppb	0.218 ppb	0.171 ppb	7.782 ppb	0.007 ppb	0.066 ppb	0.348 ppb	0.806 ppb	119.917 %
Concentration per Run 2	0.048 ppb	0.240 ppb	0.162 ppb	8.432 ppb	0.016 ppb	0.052 ppb	0.477 ppb	0.785 ppb	106.293 %
Concentration per Run 3	0.077 ppb	0.223 ppb	0.071 ppb	7.714 ppb	0.003 ppb	0.077 ppb	0.388 ppb	0.721 ppb	108.469 %
Concentration RSD	40.4 %	5.1 %	41.0 %	5.0 %	75.2 %	18.8 %	16.3 %	5.7 %	6.6 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	-0.008 ppb	0.041 ppb	0.102 ppb	0.226 ppb	81.015 %	-0.001 ppb	0.005 ppb	76.708 %	0.447 ppb
Concentration per Run 1	0.012 ppb	0.039 ppb	0.084 ppb	0.174 ppb	82.504 %	-0.002 ppb	0.005 ppb	80.173 %	0.427 ppb
Concentration per Run 2	-0.040 ppb	-0.021 ppb	0.105 ppb	0.260 ppb	78.930 %	-0.001 ppb	0.010 ppb	71.682 %	0.462 ppb
Concentration per Run 3	0.002 ppb	0.105 ppb	0.116 ppb	0.244 ppb	81.611 %	-0.001 ppb	0.000 ppb	78.270 %	0.454 ppb
Concentration RSD	328.6 %	152.9 %	15.8 %	20.3 %	2.3 %	25.2 %	97.0 %	5.8 %	4.1 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	-0.001 ppb	100.099 %	88.626 %	0.072 ppb	0.014 ppb
Concentration per Run 1	0.039 ppb	102.164 %	89.766 %	0.051 ppb	0.015 ppb
Concentration per Run 2	-0.028 ppb	98.197 %	85.226 %	0.093 ppb	0.016 ppb
Concentration per Run 3	-0.012 ppb	99.937 %	90.886 %	0.072 ppb	0.013 ppb
Concentration RSD	6,844.1 %	2.0 %	3.4 %	29.3 %	9.4 %

Alpha ICPMSQ Data with SRD

3/6/2024 5:52:11 AM

Analysis index:	52	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	L2410843-01 6020SL	Rack	2		
Analysis started at:	3/5/2024 9:47:13 PM	Vial	55		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	92.279 %	119.242 %	0.011 ppb	55,697.978 ppb	8,364.889 ppb	5.148 ppb	5,323.266 ppb	24,917.514 ppb	113.538 %
Concentration per Run 1	92.965 %	115.449 %	0.015 ppb	58,809.197 ppb	8,888.228 ppb	6.055 ppb	5,293.544 ppb	25,511.438 ppb	112.171 %
Concentration per Run 2	92.882 %	121.554 %	0.003 ppb	52,424.689 ppb	7,772.233 ppb	4.907 ppb	5,162.628 ppb	23,905.456 ppb	114.725 %
Concentration per Run 3	90.992 %	120.722 %	0.014 ppb	55,860.047 ppb	8,434.206 ppb	4.482 ppb	5,513.626 ppb	25,335.649 ppb	113.719 %
Concentration RSD	1.2 %	2.8 %	63.7 %	5.7 %	6.7 %	15.8 %	3.3 %	3.5 %	1.1 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.035 ppb	0.130 ppb	1,885.492 ppb	7,698.908 ppb	30.439 ppb	2.793 ppb	1.260 ppb	14.170 ppb	105.040 %
Concentration per Run 1	0.024 ppb	0.139 ppb	1,933.520 ppb	7,847.116 ppb	30.439 ppb	2.843 ppb	1.309 ppb	14.527 ppb	106.166 %
Concentration per Run 2	0.057 ppb	0.110 ppb	1,840.262 ppb	7,598.672 ppb	30.883 ppb	2.887 ppb	1.337 ppb	13.842 ppb	101.224 %
Concentration per Run 3	0.023 ppb	0.140 ppb	1,882.694 ppb	7,650.936 ppb	29.995 ppb	2.650 ppb	1.134 ppb	14.141 ppb	107.731 %
Concentration RSD	56.2 %	13.4 %	2.5 %	1.7 %	1.5 %	4.5 %	8.7 %	2.4 %	3.2 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.453 ppb	0.634 ppb	144.838 ppb	0.088 ppb	72.149 %	-0.002 ppb	0.240 ppb	71.673 %	0.242 ppb
Concentration per Run 1	0.428 ppb	0.637 ppb	145.808 ppb	0.071 ppb	74.266 %	-0.003 ppb	0.173 ppb	76.448 %	0.222 ppb
Concentration per Run 2	0.391 ppb	0.625 ppb	141.608 ppb	0.087 ppb	70.106 %	-0.002 ppb	0.271 ppb	65.776 %	0.255 ppb
Concentration per Run 3	0.541 ppb	0.640 ppb	147.099 ppb	0.106 ppb	72.075 %	-0.002 ppb	0.276 ppb	72.794 %	0.247 ppb
Concentration RSD	17.2 %	1.2 %	2.0 %	19.5 %	2.9 %	16.5 %	24.1 %	7.6 %	7.1 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	32.717 ppb	95.561 %	86.192 %	0.086 ppb	0.009 ppb
Concentration per Run 1	32.055 ppb	98.762 %	90.332 %	0.064 ppb	0.007 ppb
Concentration per Run 2	31.395 ppb	92.102 %	83.882 %	0.096 ppb	0.007 ppb
Concentration per Run 3	34.701 ppb	95.819 %	84.361 %	0.099 ppb	0.012 ppb
Concentration RSD	5.3 %	3.5 %	4.2 %	22.3 %	29.9 %

Alpha ICPMSQ Data with SRD

3/6/2024 5:52:11 AM

Analysis index:	53	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	L2410843-02 6020SL	Rack	2		
Analysis started at:	3/5/2024 9:51:52 PM	Vial	56		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	92.662 %	123.867 %	0.010 ppb	54,294.241 ppb	7,969.545 ppb	6.070 ppb	5,057.595 ppb	24,066.074 ppb	111.515 %
Concentration per Run 1	94.221 %	122.387 %	0.000 ppb	53,254.884 ppb	7,812.146 ppb	7.240 ppb	4,894.990 ppb	23,918.767 ppb	113.041 %
Concentration per Run 2	93.170 %	129.603 %	0.010 ppb	52,980.495 ppb	7,845.250 ppb	5.096 ppb	5,032.414 ppb	24,130.399 ppb	111.558 %
Concentration per Run 3	90.595 %	119.612 %	0.020 ppb	56,647.343 ppb	8,251.240 ppb	5.873 ppb	5,245.380 ppb	24,149.057 ppb	109.944 %
Concentration RSD	2.0 %	4.2 %	99.0 %	3.8 %	3.1 %	17.9 %	3.5 %	0.5 %	1.4 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.041 ppb	0.045 ppb	1,823.732 ppb	9,688.687 ppb	29.461 ppb	2.614 ppb	1.051 ppb	8.823 ppb	107.639 %
Concentration per Run 1	0.053 ppb	0.025 ppb	1,735.405 ppb	9,239.878 ppb	28.618 ppb	2.371 ppb	0.940 ppb	8.594 ppb	111.413 %
Concentration per Run 2	0.023 ppb	0.031 ppb	1,858.804 ppb	9,914.221 ppb	29.857 ppb	2.696 ppb	1.140 ppb	8.873 ppb	104.855 %
Concentration per Run 3	0.047 ppb	0.078 ppb	1,876.987 ppb	9,911.963 ppb	29.909 ppb	2.775 ppb	1.074 ppb	9.002 ppb	106.650 %
Concentration RSD	39.4 %	65.2 %	4.2 %	4.0 %	2.5 %	8.2 %	9.7 %	2.4 %	3.1 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.676 ppb	0.423 ppb	143.952 ppb	0.070 ppb	73.669 %	-0.002 ppb	0.241 ppb	72.928 %	0.194 ppb
Concentration per Run 1	0.597 ppb	0.431 ppb	140.013 ppb	0.043 ppb	73.815 %	0.000 ppb	0.234 ppb	73.160 %	0.184 ppb
Concentration per Run 2	0.697 ppb	0.372 ppb	145.952 ppb	0.047 ppb	73.694 %	-0.002 ppb	0.244 ppb	72.418 %	0.213 ppb
Concentration per Run 3	0.733 ppb	0.465 ppb	145.892 ppb	0.120 ppb	73.497 %	-0.003 ppb	0.244 ppb	73.208 %	0.185 ppb
Concentration RSD	10.5 %	11.2 %	2.4 %	61.7 %	0.2 %	69.9 %	2.3 %	0.6 %	8.4 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	32.883 ppb	97.766 %	88.753 %	0.061 ppb	0.001 ppb
Concentration per Run 1	32.218 ppb	98.961 %	88.227 %	0.047 ppb	-0.001 ppb
Concentration per Run 2	32.354 ppb	98.191 %	88.863 %	0.069 ppb	0.000 ppb
Concentration per Run 3	34.077 ppb	96.146 %	89.169 %	0.066 ppb	0.004 ppb
Concentration RSD	3.2 %	1.5 %	0.5 %	19.4 %	423.5 %

Alpha ICPMSQ Data with SRD

3/6/2024 5:52:11 AM

Analysis index:	54	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	L2410843-03 6020SL	Rack	2		
Analysis started at:	3/5/2024 9:56:31 PM	Vial	57		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	102.232 %	127.937 %	0.126 ppb	10,382.415 ppb	2,293.073 ppb	116.974 ppb	3,854.617 ppb	7,703.872 ppb	111.771 %
Concentration per Run 1	102.660 %	133.488 %	0.118 ppb	9,940.476 ppb	2,201.674 ppb	109.870 ppb	3,589.851 ppb	7,286.055 ppb	111.518 %
Concentration per Run 2	102.763 %	124.330 %	0.126 ppb	10,874.847 ppb	2,379.631 ppb	121.416 ppb	4,129.817 ppb	8,062.736 ppb	112.224 %
Concentration per Run 3	101.272 %	125.995 %	0.134 ppb	10,331.922 ppb	2,297.913 ppb	119.634 ppb	3,844.184 ppb	7,762.824 ppb	111.570 %
Concentration RSD	0.8 %	3.8 %	6.1 %	4.5 %	3.9 %	5.3 %	7.0 %	5.1 %	0.4 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.016 ppb	0.182 ppb	435.231 ppb	1,614.289 ppb	12.446 ppb	7.179 ppb	0.860 ppb	34.441 ppb	117.327 %
Concentration per Run 1	0.013 ppb	0.172 ppb	412.386 ppb	1,559.669 ppb	12.327 ppb	6.941 ppb	0.780 ppb	33.766 ppb	117.826 %
Concentration per Run 2	0.013 ppb	0.187 ppb	453.841 ppb	1,634.194 ppb	12.257 ppb	6.991 ppb	0.874 ppb	34.317 ppb	123.321 %
Concentration per Run 3	0.022 ppb	0.187 ppb	439.465 ppb	1,649.005 ppb	12.753 ppb	7.604 ppb	0.927 ppb	35.240 ppb	110.834 %
Concentration RSD	32.9 %	4.7 %	4.8 %	3.0 %	2.2 %	5.1 %	8.6 %	2.2 %	5.3 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.498 ppb	0.170 ppb	37.636 ppb	0.019 ppb	79.988 %	-0.002 ppb	0.108 ppb	80.248 %	0.143 ppb
Concentration per Run 1	0.507 ppb	0.233 ppb	35.797 ppb	0.021 ppb	81.481 %	-0.002 ppb	0.106 ppb	78.841 %	0.136 ppb
Concentration per Run 2	0.432 ppb	0.077 ppb	39.166 ppb	-0.008 ppb	80.958 %	-0.003 ppb	0.109 ppb	83.408 %	0.148 ppb
Concentration per Run 3	0.554 ppb	0.199 ppb	37.944 ppb	0.044 ppb	77.524 %	-0.002 ppb	0.110 ppb	78.496 %	0.144 ppb
Concentration RSD	12.3 %	48.5 %	4.5 %	138.4 %	2.7 %	29.3 %	1.9 %	3.4 %	4.6 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	2.723 ppb	102.705 %	92.084 %	0.034 ppb	0.023 ppb
Concentration per Run 1	2.599 ppb	103.683 %	92.855 %	0.016 ppb	0.022 ppb
Concentration per Run 2	3.008 ppb	106.617 %	95.857 %	0.038 ppb	0.025 ppb
Concentration per Run 3	2.562 ppb	97.816 %	87.541 %	0.047 ppb	0.023 ppb
Concentration RSD	9.1 %	4.4 %	4.6 %	47.2 %	6.1 %

Alpha ICPMSQ Data with SRD

3/6/2024 5:52:11 AM

Analysis index:	55	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	L2410843-04 6020SL	Rack	2		
Analysis started at:	3/5/2024 10:01:10 PM	Vial	58		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	92.914 %	119.889 %	0.018 ppb	128,107.559 ppb	9,148.948 ppb	5.202 ppb	16,816.276 ppb	18,783.287 ppb	100.282 %
Concentration per Run 1	92.846 %	119.057 %	0.016 ppb	129,709.542 ppb	9,195.955 ppb	4.823 ppb	17,205.589 ppb	19,178.674 ppb	99.299 %
Concentration per Run 2	93.915 %	127.937 %	0.018 ppb	121,011.231 ppb	8,740.454 ppb	5.525 ppb	16,405.694 ppb	18,553.168 ppb	101.630 %
Concentration per Run 3	91.983 %	112.674 %	0.019 ppb	133,601.905 ppb	9,510.435 ppb	5.259 ppb	16,837.543 ppb	18,618.020 ppb	99.916 %
Concentration RSD	1.0 %	6.4 %	9.9 %	5.0 %	4.2 %	6.8 %	2.4 %	1.8 %	1.2 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.027 ppb	0.119 ppb	1,850.925 ppb	11.434 ppb	2.103 ppb	2.423 ppb	0.604 ppb	3.962 ppb	112.341 %
Concentration per Run 1	0.044 ppb	0.124 ppb	1,831.857 ppb	11.901 ppb	2.034 ppb	2.398 ppb	0.559 ppb	3.905 ppb	118.141 %
Concentration per Run 2	0.014 ppb	0.129 ppb	1,887.881 ppb	12.378 ppb	2.148 ppb	2.347 ppb	0.613 ppb	3.926 ppb	108.233 %
Concentration per Run 3	0.023 ppb	0.103 ppb	1,833.038 ppb	10.023 ppb	2.127 ppb	2.525 ppb	0.639 ppb	4.055 ppb	110.648 %
Concentration RSD	55.5 %	11.6 %	1.7 %	10.9 %	2.9 %	3.8 %	6.7 %	2.1 %	4.6 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.101 ppb	0.491 ppb	85.919 ppb	0.059 ppb	73.361 %	-0.003 ppb	0.132 ppb	73.168 %	0.241 ppb
Concentration per Run 1	0.059 ppb	0.489 ppb	85.108 ppb	0.036 ppb	77.191 %	-0.004 ppb	0.150 ppb	79.465 %	0.215 ppb
Concentration per Run 2	0.126 ppb	0.743 ppb	88.754 ppb	0.066 ppb	70.339 %	-0.002 ppb	0.111 ppb	69.203 %	0.261 ppb
Concentration per Run 3	0.117 ppb	0.240 ppb	83.893 ppb	0.077 ppb	72.554 %	-0.003 ppb	0.134 ppb	70.836 %	0.249 ppb
Concentration RSD	35.8 %	51.3 %	2.9 %	35.7 %	4.8 %	31.2 %	14.8 %	7.5 %	9.9 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	66.196 ppb	96.180 %	85.693 %	0.135 ppb	0.011 ppb
Concentration per Run 1	63.635 ppb	99.587 %	90.133 %	0.110 ppb	0.008 ppb
Concentration per Run 2	67.572 ppb	92.682 %	81.897 %	0.147 ppb	0.013 ppb
Concentration per Run 3	67.381 ppb	96.271 %	85.048 %	0.148 ppb	0.011 ppb
Concentration RSD	3.4 %	3.6 %	4.8 %	16.3 %	20.9 %

Alpha ICPMSQ Data with SRD

3/6/2024 5:52:11 AM

Analysis index: 56
Analysis label: L2410843-05 6020SL
Analysis started at: 3/5/2024 10:05:49 PM
User name ALPHALAB\Metals-Instrument
Rack 2
Vial 59
Comment <Comment>

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	101.781 %	136.911 %	0.076 ppb	26,845.369 ppb	8,884.818 ppb	52.958 ppb	11,829.147 ppb	12,416.130 ppb	128.658 %
Concentration per Run 1	102.638 %	145.977 %	0.078 ppb	26,089.427 ppb	8,750.475 ppb	53.086 ppb	11,723.092 ppb	12,875.353 ppb	129.413 %
Concentration per Run 2	101.208 %	126.272 %	0.074 ppb	28,139.973 ppb	9,165.451 ppb	52.811 ppb	12,164.185 ppb	12,495.240 ppb	127.745 %
Concentration per Run 3	101.497 %	138.483 %	0.075 ppb	26,306.706 ppb	8,738.527 ppb	52.977 ppb	11,600.165 ppb	11,877.796 ppb	128.817 %
Concentration RSD	0.7 %	7.3 %	2.8 %	4.2 %	2.7 %	0.3 %	2.5 %	4.1 %	0.7 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	1.483 ppb	2.712 ppb	226.118 ppb	56,224.634 ppb	2.393 ppb	8.354 ppb	0.887 ppb	15.738 ppb	114.741 %
Concentration per Run 1	1.392 ppb	2.700 ppb	225.245 ppb	55,430.666 ppb	2.205 ppb	7.649 ppb	0.837 ppb	15.317 ppb	121.348 %
Concentration per Run 2	1.533 ppb	2.696 ppb	231.255 ppb	57,826.884 ppb	2.546 ppb	8.832 ppb	0.984 ppb	15.720 ppb	111.761 %
Concentration per Run 3	1.523 ppb	2.739 ppb	221.855 ppb	55,416.352 ppb	2.430 ppb	8.582 ppb	0.841 ppb	16.178 ppb	111.115 %
Concentration RSD	5.3 %	0.9 %	2.1 %	2.5 %	7.2 %	7.5 %	9.4 %	2.7 %	5.0 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	8.506 ppb	1.912 ppb	186.251 ppb	0.277 ppb	79.239 %	0.002 ppb	0.034 ppb	78.439 %	0.306 ppb
Concentration per Run 1	8.094 ppb	1.601 ppb	190.235 ppb	0.189 ppb	81.401 %	0.003 ppb	0.034 ppb	82.275 %	0.275 ppb
Concentration per Run 2	8.638 ppb	1.990 ppb	185.521 ppb	0.270 ppb	78.421 %	0.002 ppb	0.029 ppb	76.543 %	0.302 ppb
Concentration per Run 3	8.785 ppb	2.145 ppb	182.997 ppb	0.372 ppb	77.895 %	0.001 ppb	0.038 ppb	76.498 %	0.339 ppb
Concentration RSD	4.3 %	14.6 %	2.0 %	33.1 %	2.4 %	40.2 %	13.6 %	4.2 %	10.4 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	219.435 ppb	103.807 %	92.268 %	-0.006 ppb	0.478 ppb
Concentration per Run 1	226.913 ppb	106.177 %	95.441 %	-0.020 ppb	0.470 ppb
Concentration per Run 2	214.150 ppb	104.379 %	92.598 %	-0.003 ppb	0.466 ppb
Concentration per Run 3	217.242 ppb	100.864 %	88.766 %	0.003 ppb	0.498 ppb
Concentration RSD	3.0 %	2.6 %	3.6 %	178.3 %	3.7 %

Alpha ICPMSQ Data with SRD

3/6/2024 5:52:11 AM

Analysis index:	57	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	L2410843-06 6020SL	Rack	2		
Analysis started at:	3/5/2024 10:10:28 PM	Vial	60		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	87.606 %	126.920 %	0.010 ppb	22,425.162 ppb	9,740.182 ppb	69.574 ppb	4,873.572 ppb	34,445.581 ppb	105.314 %
Concentration per Run 1	81.791 %	138.206 %	0.014 ppb	22,266.629 ppb	9,734.576 ppb	67.589 ppb	5,133.326 ppb	35,455.011 ppb	100.503 %
Concentration per Run 2	85.169 %	125.162 %	0.010 ppb	22,684.718 ppb	9,894.336 ppb	71.386 ppb	4,838.006 ppb	33,485.371 ppb	104.837 %
Concentration per Run 3	95.859 %	117.391 %	0.004 ppb	22,324.138 ppb	9,591.635 ppb	69.747 ppb	4,649.384 ppb	34,396.360 ppb	110.603 %
Concentration RSD	8.4 %	8.3 %	51.2 %	1.0 %	1.6 %	2.7 %	5.0 %	2.9 %	4.8 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.302 ppb	0.453 ppb	1,622.517 ppb	4,174.993 ppb	11.217 ppb	2.176 ppb	1.771 ppb	8.664 ppb	115.662 %
Concentration per Run 1	0.324 ppb	0.434 ppb	1,630.642 ppb	4,043.829 ppb	10.858 ppb	1.890 ppb	1.718 ppb	8.638 ppb	123.397 %
Concentration per Run 2	0.374 ppb	0.502 ppb	1,629.297 ppb	4,186.552 ppb	11.341 ppb	2.149 ppb	1.746 ppb	8.911 ppb	115.537 %
Concentration per Run 3	0.207 ppb	0.423 ppb	1,607.611 ppb	4,294.597 ppb	11.451 ppb	2.488 ppb	1.851 ppb	8.443 ppb	108.053 %
Concentration RSD	28.3 %	9.5 %	0.8 %	3.0 %	2.8 %	13.8 %	4.0 %	2.7 %	6.6 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.711 ppb	0.201 ppb	263.347 ppb	0.510 ppb	78.764 %	-0.002 ppb	0.080 ppb	77.167 %	0.285 ppb
Concentration per Run 1	0.641 ppb	0.127 ppb	274.786 ppb	0.561 ppb	81.160 %	-0.003 ppb	0.096 ppb	82.978 %	0.296 ppb
Concentration per Run 2	0.688 ppb	0.238 ppb	260.286 ppb	0.470 ppb	78.641 %	-0.003 ppb	0.097 ppb	76.401 %	0.307 ppb
Concentration per Run 3	0.804 ppb	0.237 ppb	254.970 ppb	0.499 ppb	76.491 %	0.001 ppb	0.046 ppb	72.121 %	0.251 ppb
Concentration RSD	11.8 %	31.9 %	3.9 %	9.2 %	3.0 %	113.3 %	36.6 %	7.1 %	10.4 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	47.405 ppb	102.372 %	89.129 %	0.009 ppb	0.086 ppb
Concentration per Run 1	47.394 ppb	106.211 %	94.937 %	-0.001 ppb	0.081 ppb
Concentration per Run 2	47.690 ppb	101.779 %	88.378 %	0.016 ppb	0.084 ppb
Concentration per Run 3	47.131 ppb	99.125 %	84.073 %	0.011 ppb	0.094 ppb
Concentration RSD	0.6 %	3.5 %	6.1 %	103.9 %	7.4 %

Alpha ICPMSQ Data with SRD

3/6/2024 5:52:11 AM

Analysis index:	58	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	L2410843-07 6020SL	Rack	3		
Analysis started at:	3/5/2024 10:15:07 PM	Vial	1		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	96.986 %	134.783 %	0.055 ppb	3,035.313 ppb	6,483.241 ppb	1,304.668 ppb	1,234.079 ppb	28,156.161 ppb	113.288 %
Concentration per Run 1	99.357 %	137.373 %	0.057 ppb	3,144.989 ppb	6,671.544 ppb	1,385.562 ppb	1,306.642 ppb	29,665.921 ppb	114.663 %
Concentration per Run 2	96.281 %	127.105 %	0.057 ppb	3,124.880 ppb	6,755.674 ppb	1,370.641 ppb	1,266.510 ppb	28,514.721 ppb	112.970 %
Concentration per Run 3	95.320 %	139.871 %	0.050 ppb	2,836.070 ppb	6,022.507 ppb	1,157.800 ppb	1,129.085 ppb	26,287.840 ppb	112.231 %
Concentration RSD	2.2 %	5.0 %	7.5 %	5.7 %	6.2 %	9.8 %	7.5 %	6.1 %	1.1 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	3.630 ppb	2.094 ppb	7.495 ppb	1,128.273 ppb	0.398 ppb	0.852 ppb	52.109 ppb	5.517 ppb	114.503 %
Concentration per Run 1	3.588 ppb	2.049 ppb	7.989 ppb	1,120.450 ppb	0.367 ppb	0.821 ppb	51.074 ppb	5.507 ppb	122.087 %
Concentration per Run 2	3.817 ppb	2.212 ppb	7.342 ppb	1,152.892 ppb	0.443 ppb	0.838 ppb	53.213 ppb	5.692 ppb	112.323 %
Concentration per Run 3	3.486 ppb	2.021 ppb	7.154 ppb	1,111.476 ppb	0.384 ppb	0.896 ppb	52.038 ppb	5.353 ppb	109.100 %
Concentration RSD	4.7 %	4.9 %	5.8 %	1.9 %	10.0 %	4.6 %	2.1 %	3.1 %	5.9 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	1.232 ppb	1.460 ppb	141.038 ppb	2.545 ppb	78.885 %	0.004 ppb	0.010 ppb	78.829 %	0.859 ppb
Concentration per Run 1	1.153 ppb	1.036 ppb	145.388 ppb	2.702 ppb	81.428 %	0.005 ppb	0.005 ppb	82.646 %	0.842 ppb
Concentration per Run 2	1.228 ppb	1.639 ppb	143.007 ppb	2.419 ppb	78.387 %	0.005 ppb	0.011 ppb	79.274 %	0.866 ppb
Concentration per Run 3	1.314 ppb	1.706 ppb	134.720 ppb	2.514 ppb	76.841 %	0.003 ppb	0.013 ppb	74.567 %	0.869 ppb
Concentration RSD	6.5 %	25.3 %	4.0 %	5.7 %	3.0 %	28.7 %	42.3 %	5.1 %	1.7 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	12.067 ppb	101.257 %	89.507 %	-0.006 ppb	7.055 ppb
Concentration per Run 1	12.527 ppb	103.220 %	91.710 %	-0.013 ppb	7.012 ppb
Concentration per Run 2	11.884 ppb	102.822 %	90.633 %	-0.003 ppb	6.985 ppb
Concentration per Run 3	11.789 ppb	97.729 %	86.177 %	-0.002 ppb	7.168 ppb
Concentration RSD	3.3 %	3.0 %	3.3 %	100.7 %	1.4 %

Alpha ICPMSQ Data with SRD

3/6/2024 5:52:11 AM

Analysis index:	59	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	L2410843-08 6020SL	Rack	3		
Analysis started at:	3/5/2024 10:19:47 PM	Vial	2		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	89.047 %	116.189 %	0.104 ppb	409,657.572 ppb	19,334.284 ppb	19.693 ppb	13,512.221 ppb	41,141.481 ppb	107.450 %
Concentration per Run 1	90.805 %	124.052 %	0.109 ppb	392,330.760 ppb	18,466.388 ppb	20.953 ppb	13,571.204 ppb	41,364.546 ppb	108.057 %
Concentration per Run 2	88.503 %	114.339 %	0.095 ppb	426,971.048 ppb	20,141.960 ppb	20.035 ppb	13,687.081 ppb	41,892.056 ppb	107.378 %
Concentration per Run 3	87.834 %	110.176 %	0.108 ppb	409,670.909 ppb	19,394.503 ppb	18.091 ppb	13,278.379 ppb	40,167.840 ppb	106.914 %
Concentration RSD	1.8 %	6.1 %	7.8 %	4.2 %	4.3 %	7.4 %	1.6 %	2.1 %	0.5 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.083 ppb	0.363 ppb	3,576.896 ppb	31.929 ppb	80.496 ppb	38.747 ppb	1.944 ppb	2,941.598 ppb	101.430 %
Concentration per Run 1	0.122 ppb	0.328 ppb	3,585.699 ppb	30.141 ppb	80.686 ppb	38.974 ppb	1.985 ppb	2,982.435 ppb	101.396 %
Concentration per Run 2	0.058 ppb	0.394 ppb	3,728.431 ppb	33.282 ppb	80.530 ppb	38.134 ppb	1.963 ppb	2,934.511 ppb	103.054 %
Concentration per Run 3	0.069 ppb	0.366 ppb	3,416.557 ppb	32.364 ppb	80.273 ppb	39.134 ppb	1.885 ppb	2,907.847 ppb	99.841 %
Concentration RSD	41.3 %	9.0 %	4.4 %	5.1 %	0.3 %	1.4 %	2.7 %	1.3 %	1.6 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.296 ppb	2.398 ppb	359.516 ppb	0.169 ppb	68.835 %	-0.001 ppb	7.814 ppb	69.411 %	0.111 ppb
Concentration per Run 1	0.336 ppb	2.368 ppb	369.186 ppb	0.150 ppb	68.944 %	-0.001 ppb	7.852 ppb	69.512 %	0.124 ppb
Concentration per Run 2	0.336 ppb	2.675 ppb	365.977 ppb	0.220 ppb	69.113 %	0.000 ppb	8.117 ppb	70.417 %	0.091 ppb
Concentration per Run 3	0.218 ppb	2.153 ppb	343.385 ppb	0.136 ppb	68.448 %	-0.001 ppb	7.473 ppb	68.304 %	0.117 ppb
Concentration RSD	23.0 %	10.9 %	3.9 %	26.7 %	0.5 %	117.2 %	4.1 %	1.5 %	15.7 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	90.968 ppb	94.550 %	83.395 %	0.072 ppb	0.057 ppb
Concentration per Run 1	92.965 ppb	93.643 %	82.875 %	0.072 ppb	0.063 ppb
Concentration per Run 2	91.312 ppb	95.767 %	85.729 %	0.072 ppb	0.052 ppb
Concentration per Run 3	88.626 ppb	94.239 %	81.581 %	0.071 ppb	0.056 ppb
Concentration RSD	2.4 %	1.2 %	2.5 %	1.5 %	9.8 %

Alpha ICPMSQ Data with SRD

3/6/2024 5:52:11 AM

Analysis index:	60	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	L2410843-09 6020SL	Rack	3		
Analysis started at:	3/5/2024 10:24:26 PM	Vial	3		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	105.632 %	146.532 %	0.292 ppb	91,942.017 ppb	13,106.703 ppb	355.153 ppb	7,889.917 ppb	26,126.366 ppb	124.948 %
Concentration per Run 1	107.861 %	141.259 %	0.276 ppb	96,358.163 ppb	13,873.780 ppb	372.156 ppb	8,056.981 ppb	26,560.522 ppb	125.837 %
Concentration per Run 2	105.882 %	149.584 %	0.293 ppb	85,697.024 ppb	12,163.883 ppb	341.343 ppb	7,604.065 ppb	24,957.799 ppb	125.033 %
Concentration per Run 3	103.153 %	148.752 %	0.306 ppb	93,770.866 ppb	13,282.446 ppb	351.958 ppb	8,008.707 ppb	26,860.776 ppb	123.975 %
Concentration RSD	2.2 %	3.1 %	5.2 %	6.0 %	6.6 %	4.4 %	3.2 %	3.9 %	0.7 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	1.401 ppb	2.188 ppb	607.723 ppb	107,544.070 ppb	13.506 ppb	24.550 ppb	1.934 ppb	105.847 ppb	110.571 %
Concentration per Run 1	1.401 ppb	2.199 ppb	628.786 ppb	109,710.106 ppb	13.357 ppb	24.688 ppb	1.836 ppb	106.470 ppb	112.059 %
Concentration per Run 2	1.395 ppb	2.277 ppb	591.798 ppb	107,638.975 ppb	13.666 ppb	25.174 ppb	1.969 ppb	106.263 ppb	106.583 %
Concentration per Run 3	1.407 ppb	2.089 ppb	602.585 ppb	105,283.130 ppb	13.494 ppb	23.788 ppb	1.997 ppb	104.809 ppb	113.072 %
Concentration RSD	0.4 %	4.3 %	3.1 %	2.1 %	1.1 %	2.9 %	4.5 %	0.9 %	3.2 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	2.095 ppb	0.824 ppb	534.852 ppb	0.021 ppb	73.711 %	0.004 ppb	0.180 ppb	74.343 %	0.057 ppb
Concentration per Run 1	2.137 ppb	0.908 ppb	536.996 ppb	0.016 ppb	74.988 %	0.004 ppb	0.186 ppb	76.327 %	0.039 ppb
Concentration per Run 2	2.079 ppb	1.018 ppb	527.570 ppb	-0.015 ppb	71.500 %	0.002 ppb	0.196 ppb	69.878 %	0.083 ppb
Concentration per Run 3	2.067 ppb	0.547 ppb	539.990 ppb	0.062 ppb	74.646 %	0.004 ppb	0.159 ppb	76.824 %	0.051 ppb
Concentration RSD	1.8 %	29.9 %	1.2 %	186.2 %	2.6 %	38.8 %	10.5 %	5.2 %	39.6 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	381.217 ppb	99.035 %	88.203 %	0.057 ppb	0.641 ppb
Concentration per Run 1	382.975 ppb	98.624 %	89.741 %	0.049 ppb	0.631 ppb
Concentration per Run 2	381.505 ppb	96.007 %	84.030 %	0.058 ppb	0.649 ppb
Concentration per Run 3	379.172 ppb	102.475 %	90.838 %	0.063 ppb	0.643 ppb
Concentration RSD	0.5 %	3.3 %	4.1 %	12.4 %	1.4 %

Alpha ICPMSQ Data with SRD

3/6/2024 5:52:11 AM

Analysis index:	61	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	CCV	Rack	0		
Analysis started at:	3/5/2024 10:29:06 PM	Vial	9		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	95.082 %	119.242 %	61.338 ppb	6,386.915 ppb	6,219.218 ppb	63.397 ppb	6,077.309 ppb	5,671.812 ppb	108.349 %
Concentration per Run 1	98.072 %	118.502 %	60.575 ppb	6,694.001 ppb	6,550.202 ppb	66.376 ppb	6,410.848 ppb	5,964.871 ppb	110.420 %
Concentration per Run 2	94.714 %	115.726 %	61.260 ppb	6,243.273 ppb	6,005.805 ppb	58.585 ppb	5,880.616 ppb	5,340.058 ppb	107.855 %
Concentration per Run 3	92.460 %	123.497 %	62.179 ppb	6,223.472 ppb	6,101.645 ppb	65.229 ppb	5,940.463 ppb	5,710.507 ppb	106.773 %
Recovery Percentage 1			102.230 %	106.449 %	103.654 %	105.661 %	101.288 %	94.530 %	
Concentration RSD	3.0 %	3.3 %	1.3 %	4.2 %	4.7 %	6.6 %	4.8 %	5.5 %	1.7 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	61.051 ppb	61.006 ppb	61.173 ppb	6,359.329 ppb	64.470 ppb	64.277 ppb	65.094 ppb	64.793 ppb	110.650 %
Concentration per Run 1	61.767 ppb	62.078 ppb	61.411 ppb	6,385.827 ppb	65.911 ppb	65.887 ppb	65.192 ppb	66.802 ppb	109.243 %
Concentration per Run 2	59.110 ppb	59.889 ppb	59.045 ppb	6,220.635 ppb	63.651 ppb	63.162 ppb	64.869 ppb	63.122 ppb	110.572 %
Concentration per Run 3	62.276 ppb	61.049 ppb	63.062 ppb	6,471.525 ppb	63.846 ppb	63.783 ppb	65.222 ppb	64.456 ppb	112.136 %
Recovery Percentage 1	101.752 %	101.676 %	101.954 %	105.989 %	107.449 %	107.129 %	108.491 %	107.989 %	
Concentration RSD	2.8 %	1.8 %	3.3 %	2.0 %	1.9 %	2.2 %	0.3 %	2.9 %	1.3 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	63.642 ppb	65.091 ppb	58.973 ppb	60.244 ppb	79.193 %	62.480 ppb	62.396 ppb	73.556 %	64.770 ppb
Concentration per Run 1	66.186 ppb	67.102 ppb	61.470 ppb	60.161 ppb	78.307 %	63.140 ppb	63.108 ppb	73.285 %	66.805 ppb
Concentration per Run 2	61.010 ppb	60.782 ppb	56.089 ppb	59.355 ppb	78.423 %	62.349 ppb	62.099 ppb	71.323 %	63.331 ppb
Concentration per Run 3	63.731 ppb	67.389 ppb	59.361 ppb	61.217 ppb	80.850 %	61.952 ppb	61.982 ppb	76.060 %	64.173 ppb
Recovery Percentage 1	106.071 %	108.485 %	98.289 %	100.407 %		104.134 %	103.994 %		107.950 %
Concentration RSD	4.1 %	5.7 %	4.6 %	1.6 %	1.8 %	1.0 %	1.0 %	3.2 %	2.8 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	64.373 ppb	98.451 %	85.138 %	57.690 ppb	59.096 ppb
Concentration per Run 1	67.185 ppb	97.191 %	85.292 %	60.753 ppb	61.236 ppb
Concentration per Run 2	63.799 ppb	96.533 %	80.758 %	56.658 ppb	58.683 ppb
Concentration per Run 3	62.136 ppb	101.629 %	89.365 %	55.657 ppb	57.368 ppb
Recovery Percentage 1	107.289 %			96.149 %	98.493 %
Concentration RSD	4.0 %	2.8 %	5.1 %	4.7 %	3.3 %

Alpha ICPMSQ Data with SRD

3/6/2024 5:52:11 AM

Analysis index:	62	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	CCB	Rack	0		
Analysis started at:	3/5/2024 10:33:47 PM	Vial	10		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	93.304 %	132.193 %	0.004 ppb	-8.162 ppb	-0.661 ppb	-0.607 ppb	-0.541 ppb	0.770 ppb	106.915 %
Concentration per Run 1	95.460 %	120.722 %	0.000 ppb	-3.589 ppb	-0.538 ppb	-0.477 ppb	8.760 ppb	-1.835 ppb	108.570 %
Concentration per Run 2	93.473 %	138.206 %	0.007 ppb	-10.465 ppb	-0.410 ppb	-0.912 ppb	-9.670 ppb	-3.333 ppb	106.284 %
Concentration per Run 3	90.979 %	137.651 %	0.004 ppb	-10.432 ppb	-1.034 ppb	-0.432 ppb	-0.713 ppb	7.479 ppb	105.892 %
Recovery Percentage 1			0.744 %	-8.162 %	-0.944 %	-6.067 %	-0.541 %	0.770 %	
Concentration RSD	2.4 %	7.5 %	91.2 %	48.5 %	49.9 %	43.7 %	1,703.0 %	760.8 %	1.4 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.001 ppb	0.001 ppb	0.012 ppb	18.710 ppb	0.003 ppb	0.004 ppb	-0.045 ppb	0.154 ppb	110.766 %
Concentration per Run 1	-0.001 ppb	0.005 ppb	-0.002 ppb	20.301 ppb	0.003 ppb	0.013 ppb	-0.020 ppb	0.149 ppb	113.810 %
Concentration per Run 2	-0.001 ppb	0.000 ppb	0.026 ppb	15.560 ppb	0.003 ppb	-0.013 ppb	-0.066 ppb	0.158 ppb	108.734 %
Concentration per Run 3	-0.001 ppb	-0.001 ppb	0.011 ppb	20.271 ppb	0.003 ppb	0.013 ppb	-0.049 ppb	0.156 ppb	109.754 %
Recovery Percentage 1	-0.024 %	0.129 %	1.178 %	37.421 %	0.617 %	0.206 %	-4.499 %	3.085 %	
Concentration RSD	8.6 %	241.2 %	115.2 %	14.6 %	0.4 %	366.5 %	52.2 %	2.9 %	2.4 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.042 ppb	0.427 ppb	0.004 ppb	0.651 ppb	80.261 %	0.002 ppb	0.008 ppb	78.225 %	0.384 ppb
Concentration per Run 1	0.009 ppb	0.238 ppb	0.004 ppb	0.673 ppb	78.756 %	0.001 ppb	0.005 ppb	76.217 %	0.373 ppb
Concentration per Run 2	0.076 ppb	0.684 ppb	0.001 ppb	0.566 ppb	80.599 %	0.003 ppb	0.007 ppb	77.367 %	0.368 ppb
Concentration per Run 3	0.041 ppb	0.360 ppb	0.007 ppb	0.715 ppb	81.428 %	0.002 ppb	0.012 ppb	81.090 %	0.412 ppb
Recovery Percentage 1	8.383 %	8.545 %	0.041 %	32.564 %		0.462 %	4.139 %		9.609 %
Concentration RSD	80.6 %	53.9 %	66.1 %	11.8 %	1.7 %	53.8 %	41.8 %	3.3 %	6.4 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	-0.102 ppb	99.193 %	87.197 %	0.318 ppb	0.016 ppb
Concentration per Run 1	-0.108 ppb	97.574 %	83.480 %	0.320 ppb	0.023 ppb
Concentration per Run 2	-0.095 ppb	99.032 %	87.260 %	0.349 ppb	0.015 ppb
Concentration per Run 3	-0.103 ppb	100.972 %	90.850 %	0.286 ppb	0.010 ppb
Recovery Percentage 1	-20.375 %			31.817 %	1.614 %
Concentration RSD	6.7 %	1.7 %	4.2 %	9.9 %	41.4 %

Alpha ICPMSQ Data with SRD

3/6/2024 5:52:11 AM

Analysis index: 63
Analysis label: WG1892149-1D2 A2-6020T
Analysis started at: 3/5/2024 10:38:30 PM
User name ALPHALAB\Metals-Instrument
Rack 3
Vial 5
Comment <Comment>

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	94.478 %	125.347 %	0.003 ppb	6.824 ppb	1.734 ppb	1.997 ppb	6.544 ppb	24.146 ppb	118.304 %
Concentration per Run 1	96.046 %	121.554 %	0.003 ppb	7.567 ppb	0.418 ppb	1.774 ppb	5.193 ppb	35.695 ppb	119.065 %
Concentration per Run 2	94.001 %	131.268 %	0.005 ppb	5.003 ppb	1.986 ppb	1.719 ppb	4.141 ppb	22.369 ppb	118.225 %
Concentration per Run 3	93.387 %	123.219 %	0.001 ppb	7.902 ppb	2.797 ppb	2.497 ppb	10.298 ppb	14.375 ppb	117.623 %
Concentration RSD	1.5 %	4.1 %	59.2 %	23.2 %	69.7 %	21.7 %	50.3 %	44.6 %	0.6 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.004 ppb	0.077 ppb	0.143 ppb	28.839 ppb	0.037 ppb	0.064 ppb	0.024 ppb	4.137 ppb	110.058 %
Concentration per Run 1	-0.001 ppb	0.081 ppb	0.077 ppb	34.293 ppb	0.100 ppb	0.064 ppb	0.008 ppb	4.389 ppb	101.182 %
Concentration per Run 2	0.014 ppb	0.064 ppb	0.217 ppb	30.357 ppb	0.005 ppb	0.045 ppb	0.010 ppb	4.051 ppb	112.645 %
Concentration per Run 3	-0.001 ppb	0.086 ppb	0.134 ppb	21.868 ppb	0.005 ppb	0.082 ppb	0.054 ppb	3.972 ppb	116.346 %
Concentration RSD	212.7 %	14.8 %	49.1 %	22.0 %	149.9 %	29.6 %	108.2 %	5.3 %	7.2 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.022 ppb	0.106 ppb	0.053 ppb	0.592 ppb	80.763 %	0.003 ppb	0.002 ppb	77.372 %	0.519 ppb
Concentration per Run 1	0.016 ppb	-0.018 ppb	0.052 ppb	0.738 ppb	77.149 %	0.003 ppb	0.000 ppb	73.115 %	0.565 ppb
Concentration per Run 2	0.033 ppb	0.191 ppb	0.053 ppb	0.525 ppb	82.272 %	0.003 ppb	0.005 ppb	78.741 %	0.516 ppb
Concentration per Run 3	0.016 ppb	0.145 ppb	0.054 ppb	0.515 ppb	82.868 %	0.002 ppb	0.000 ppb	80.260 %	0.476 ppb
Concentration RSD	47.1 %	103.8 %	2.4 %	21.2 %	3.9 %	12.2 %	173.2 %	4.9 %	8.6 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	-0.010 ppb	99.276 %	86.808 %	0.131 ppb	0.007 ppb
Concentration per Run 1	-0.071 ppb	95.010 %	81.150 %	0.113 ppb	0.011 ppb
Concentration per Run 2	0.035 ppb	100.840 %	88.607 %	0.157 ppb	0.007 ppb
Concentration per Run 3	0.005 ppb	101.978 %	90.667 %	0.122 ppb	0.002 ppb
Concentration RSD	529.0 %	3.8 %	5.8 %	17.6 %	63.3 %

Alpha ICPMSQ Data with SRD

3/6/2024 5:52:11 AM

Analysis index: 64
Analysis label: WG1892149-8D2 A2-6020T
Analysis started at: 3/5/2024 10:43:09 PM
User name ALPHALAB\Metals-Instrument
Rack 3
Vial 14
Comment <Comment>

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	92.178 %	129.603 %	0.026 ppb	45,097.001 ppb	2,447.491 ppb	19.711 ppb	28,837.108 ppb	4,943.972 ppb	117.310 %
Concentration per Run 1	92.897 %	123.497 %	0.025 ppb	46,700.907 ppb	2,537.086 ppb	20.939 ppb	28,432.957 ppb	5,115.812 ppb	117.038 %
Concentration per Run 2	93.144 %	127.660 %	0.023 ppb	45,579.647 ppb	2,449.378 ppb	18.156 ppb	29,928.075 ppb	5,038.540 ppb	118.047 %
Concentration per Run 3	90.492 %	137.651 %	0.031 ppb	43,010.449 ppb	2,356.009 ppb	20.038 ppb	28,150.293 ppb	4,677.564 ppb	116.845 %
Concentration RSD	1.6 %	5.6 %	16.4 %	4.2 %	3.7 %	7.2 %	3.3 %	4.7 %	0.6 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	18.232 ppb	2.702 ppb	33.505 ppb	396.040 ppb	2.478 ppb	10.775 ppb	1,078.266 ppb	274.839 ppb	109.893 %
Concentration per Run 1	19.082 ppb	2.523 ppb	35.054 ppb	407.782 ppb	2.682 ppb	11.258 ppb	1,135.753 ppb	286.248 ppb	101.344 %
Concentration per Run 2	18.507 ppb	3.228 ppb	32.852 ppb	421.438 ppb	2.362 ppb	10.540 ppb	1,072.227 ppb	272.352 ppb	112.106 %
Concentration per Run 3	17.108 ppb	2.354 ppb	32.610 ppb	358.900 ppb	2.390 ppb	10.526 ppb	1,026.816 ppb	265.917 ppb	116.227 %
Concentration RSD	5.6 %	17.2 %	4.0 %	8.3 %	7.1 %	3.9 %	5.1 %	3.8 %	7.0 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	137.768 ppb	22.033 ppb	74.089 ppb	7.895 ppb	78.971 %	20.477 ppb	84.231 ppb	77.385 %	0.389 ppb
Concentration per Run 1	145.494 ppb	22.960 ppb	74.567 ppb	7.880 ppb	75.411 %	20.764 ppb	85.913 ppb	73.250 %	0.366 ppb
Concentration per Run 2	136.515 ppb	20.883 ppb	74.352 ppb	8.012 ppb	80.597 %	20.526 ppb	84.473 ppb	79.245 %	0.384 ppb
Concentration per Run 3	131.295 ppb	22.257 ppb	73.350 ppb	7.794 ppb	80.905 %	20.142 ppb	82.306 ppb	79.661 %	0.417 ppb
Concentration RSD	5.2 %	4.8 %	0.9 %	1.4 %	3.9 %	1.5 %	2.2 %	4.6 %	6.6 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	0.586 ppb	105.131 %	91.426 %	0.096 ppb	0.487 ppb
Concentration per Run 1	0.634 ppb	100.679 %	86.596 %	0.070 ppb	0.510 ppb
Concentration per Run 2	0.528 ppb	107.581 %	92.247 %	0.120 ppb	0.478 ppb
Concentration per Run 3	0.594 ppb	107.133 %	95.437 %	0.099 ppb	0.473 ppb
Concentration RSD	9.1 %	3.7 %	4.9 %	26.0 %	4.2 %

Alpha ICPMSQ Data with SRD

3/6/2024 5:52:11 AM

Analysis index:	65	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	WG1892149-2d10 A2-6020T	Rack	3		
Analysis started at:	3/5/2024 10:47:49 PM	Vial	6		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	94.953 %	141.629 %	8.027 ppb	1,511.119 ppb	1,438.840 ppb	285.842 ppb	1,393.221 ppb	1,437.021 ppb	107.181 %
Concentration per Run 1	96.944 %	140.704 %	7.996 ppb	1,488.851 ppb	1,378.389 ppb	277.589 ppb	1,384.889 ppb	1,571.580 ppb	106.113 %
Concentration per Run 2	93.380 %	144.034 %	8.121 ppb	1,473.511 ppb	1,442.589 ppb	290.292 ppb	1,396.363 ppb	1,320.549 ppb	106.218 %
Concentration per Run 3	94.533 %	140.149 %	7.964 ppb	1,570.996 ppb	1,495.543 ppb	289.643 ppb	1,398.412 ppb	1,418.935 ppb	109.211 %
Concentration RSD	1.9 %	1.5 %	1.0 %	3.5 %	4.1 %	2.5 %	0.5 %	8.8 %	1.6 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	72.454 ppb	28.866 ppb	73.371 ppb	152.900 ppb	77.893 ppb	79.458 ppb	39.738 ppb	76.724 ppb	119.555 %
Concentration per Run 1	71.892 ppb	29.311 ppb	71.466 ppb	143.954 ppb	79.430 ppb	80.396 ppb	40.552 ppb	76.211 ppb	116.008 %
Concentration per Run 2	70.795 ppb	27.694 ppb	72.824 ppb	151.886 ppb	75.559 ppb	77.220 ppb	38.619 ppb	74.870 ppb	124.420 %
Concentration per Run 3	74.674 ppb	29.593 ppb	75.823 ppb	162.861 ppb	78.690 ppb	80.759 ppb	40.041 ppb	79.090 ppb	118.238 %
Concentration RSD	2.8 %	3.5 %	3.0 %	6.2 %	2.6 %	2.4 %	2.5 %	2.8 %	3.6 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	18.035 ppb	17.542 ppb	144.143 ppb	149.312 ppb	84.696 %	7.519 ppb	7.996 ppb	82.111 %	55.781 ppb
Concentration per Run 1	18.459 ppb	16.999 ppb	139.257 ppb	144.877 ppb	83.587 %	7.493 ppb	8.035 ppb	78.023 %	51.597 ppb
Concentration per Run 2	17.524 ppb	16.932 ppb	144.222 ppb	149.249 ppb	86.203 %	7.500 ppb	8.077 ppb	83.845 %	57.488 ppb
Concentration per Run 3	18.124 ppb	18.696 ppb	148.951 ppb	153.810 ppb	84.296 %	7.565 ppb	7.876 ppb	84.464 %	58.257 ppb
Concentration RSD	2.6 %	5.7 %	3.4 %	3.0 %	1.6 %	0.5 %	1.3 %	4.3 %	6.5 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	353.248 ppb	105.518 %	92.089 %	19.317 ppb	89.436 ppb
Concentration per Run 1	345.837 ppb	101.939 %	89.364 %	19.546 ppb	89.452 ppb
Concentration per Run 2	362.231 ppb	108.552 %	95.265 %	18.925 ppb	87.781 ppb
Concentration per Run 3	351.676 ppb	106.065 %	91.639 %	19.480 ppb	91.075 ppb
Concentration RSD	2.4 %	3.2 %	3.2 %	1.8 %	1.8 %

Alpha ICPMSQ Data with SRD

3/6/2024 5:52:11 AM

Analysis index:	66	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	WG1892149-4d10 A2-6020T	Rack	3		
Analysis started at:	3/5/2024 10:52:29 PM	Vial	10		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	95.651 %	136.078 %	9.704 ppb	13,119.103 ppb	3,387.851 ppb	419.261 ppb	6,526.283 ppb	3,115.095 ppb	109.305 %
Concentration per Run 1	96.360 %	131.823 %	9.705 ppb	13,589.766 ppb	3,425.404 ppb	409.305 ppb	6,576.051 ppb	3,109.497 ppb	108.902 %
Concentration per Run 2	96.727 %	131.545 %	9.724 ppb	13,337.191 ppb	3,523.002 ppb	433.228 ppb	6,720.059 ppb	3,189.640 ppb	111.219 %
Concentration per Run 3	93.865 %	144.866 %	9.683 ppb	12,430.352 ppb	3,215.149 ppb	415.249 ppb	6,282.740 ppb	3,046.149 ppb	107.794 %
Concentration RSD	1.6 %	5.6 %	0.2 %	4.6 %	4.6 %	3.0 %	3.4 %	2.3 %	1.6 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	91.310 ppb	36.992 ppb	96.438 ppb	379.357 ppb	99.204 ppb	101.404 ppb	54.088 ppb	119.374 ppb	116.838 %
Concentration per Run 1	91.822 ppb	37.536 ppb	94.943 ppb	385.456 ppb	100.747 ppb	103.631 ppb	55.236 ppb	120.953 ppb	113.550 %
Concentration per Run 2	93.577 ppb	38.280 ppb	101.486 ppb	388.458 ppb	101.239 ppb	103.138 ppb	54.499 ppb	121.155 ppb	116.679 %
Concentration per Run 3	88.533 ppb	35.160 ppb	92.884 ppb	364.156 ppb	95.627 ppb	97.443 ppb	52.528 ppb	116.015 ppb	120.286 %
Concentration RSD	2.8 %	4.4 %	4.7 %	3.5 %	3.1 %	3.4 %	2.6 %	2.4 %	2.9 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	27.754 ppb	22.260 ppb	204.869 ppb	197.431 ppb	82.087 %	9.530 ppb	9.853 ppb	79.436 %	104.548 ppb
Concentration per Run 1	27.905 ppb	22.857 ppb	200.538 ppb	197.732 ppb	79.859 %	9.670 ppb	10.091 ppb	76.975 %	105.957 ppb
Concentration per Run 2	28.000 ppb	23.275 ppb	209.400 ppb	197.483 ppb	82.499 %	9.418 ppb	9.835 ppb	80.046 %	105.832 ppb
Concentration per Run 3	27.356 ppb	20.647 ppb	204.671 ppb	197.078 ppb	83.905 %	9.502 ppb	9.632 ppb	81.287 %	101.856 ppb
Concentration RSD	1.3 %	6.3 %	2.2 %	0.2 %	2.5 %	1.3 %	2.3 %	2.8 %	2.2 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	445.212 ppb	103.639 %	91.792 %	23.860 ppb	113.369 ppb
Concentration per Run 1	452.654 ppb	99.717 %	86.822 %	24.517 ppb	118.105 ppb
Concentration per Run 2	447.753 ppb	103.816 %	94.898 %	23.081 ppb	109.812 ppb
Concentration per Run 3	435.229 ppb	107.385 %	93.655 %	23.982 ppb	112.189 ppb
Concentration RSD	2.0 %	3.7 %	4.7 %	3.0 %	3.8 %

Alpha ICPMSQ Data with SRD

3/6/2024 5:52:11 AM

Analysis index:	67	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	WG1892149-5d10 A2-6020T	Rack	3		
Analysis started at:	3/5/2024 10:57:08 PM	Vial	11		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	96.363 %	133.673 %	8.163 ppb	11,467.814 ppb	3,099.301 ppb	371.302 ppb	5,656.254 ppb	2,773.036 ppb	111.745 %
Concentration per Run 1	96.278 %	127.937 %	8.126 ppb	11,831.674 ppb	3,262.495 ppb	380.327 ppb	5,846.351 ppb	2,908.042 ppb	110.652 %
Concentration per Run 2	97.318 %	139.871 %	8.114 ppb	10,988.300 ppb	2,883.227 ppb	356.970 ppb	5,424.256 ppb	2,788.865 ppb	113.031 %
Concentration per Run 3	95.491 %	133.210 %	8.249 ppb	11,583.470 ppb	3,152.182 ppb	376.609 ppb	5,698.155 ppb	2,622.201 ppb	111.552 %
Concentration RSD	1.0 %	4.5 %	0.9 %	3.8 %	6.3 %	3.4 %	3.8 %	5.2 %	1.1 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	77.897 ppb	31.371 ppb	82.077 ppb	351.750 ppb	84.716 ppb	86.604 ppb	46.843 ppb	103.823 ppb	119.327 %
Concentration per Run 1	80.638 ppb	32.634 ppb	83.452 ppb	366.750 ppb	86.789 ppb	90.058 ppb	47.753 ppb	105.241 ppb	118.935 %
Concentration per Run 2	74.847 ppb	30.269 ppb	78.661 ppb	328.916 ppb	81.176 ppb	82.490 ppb	45.142 ppb	101.429 ppb	121.196 %
Concentration per Run 3	78.205 ppb	31.209 ppb	84.117 ppb	359.585 ppb	86.184 ppb	87.265 ppb	47.634 ppb	104.798 ppb	117.852 %
Concentration RSD	3.7 %	3.8 %	3.6 %	5.7 %	3.6 %	4.4 %	3.1 %	2.0 %	1.4 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	23.764 ppb	19.903 ppb	174.584 ppb	165.226 ppb	84.119 %	7.737 ppb	8.447 ppb	82.022 %	83.556 ppb
Concentration per Run 1	23.493 ppb	20.344 ppb	173.355 ppb	164.028 ppb	82.587 %	7.757 ppb	8.349 ppb	81.620 %	83.012 ppb
Concentration per Run 2	23.205 ppb	19.555 ppb	173.455 ppb	164.595 ppb	84.682 %	7.753 ppb	8.446 ppb	81.941 %	84.893 ppb
Concentration per Run 3	24.593 ppb	19.810 ppb	176.943 ppb	167.056 ppb	85.089 %	7.703 ppb	8.547 ppb	82.504 %	82.762 ppb
Concentration RSD	3.1 %	2.0 %	1.2 %	1.0 %	1.6 %	0.4 %	1.2 %	0.5 %	1.4 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	374.748 ppb	105.366 %	92.361 %	20.338 ppb	94.226 ppb
Concentration per Run 1	376.544 ppb	103.633 %	89.766 %	20.319 ppb	94.580 ppb
Concentration per Run 2	375.929 ppb	105.288 %	94.066 %	20.389 ppb	94.174 ppb
Concentration per Run 3	371.770 ppb	107.177 %	93.250 %	20.305 ppb	93.925 ppb
Concentration RSD	0.7 %	1.7 %	2.5 %	0.2 %	0.4 %

Alpha ICPMSQ Data with SRD

3/6/2024 5:52:11 AM

Analysis index:	68	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	WG1892149-6d10 A2-6020T	Rack	3		
Analysis started at:	3/5/2024 11:01:48 PM	Vial	12		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	91.881 %	137.743 %	48.715 ppb	17,644.209 ppb	6,353.625 ppb	107.991 ppb	9,923.653 ppb	5,673.019 ppb	111.544 %
Concentration per Run 1	92.124 %	147.087 %	49.071 ppb	17,006.138 ppb	6,209.353 ppb	106.170 ppb	9,811.628 ppb	5,638.337 ppb	110.251 %
Concentration per Run 2	91.456 %	134.043 %	48.290 ppb	18,260.676 ppb	6,459.332 ppb	109.278 ppb	9,983.016 ppb	5,809.444 ppb	111.058 %
Concentration per Run 3	92.062 %	132.100 %	48.784 ppb	17,665.814 ppb	6,392.189 ppb	108.525 ppb	9,976.314 ppb	5,571.276 ppb	113.324 %
Concentration RSD	0.4 %	5.9 %	0.8 %	3.6 %	2.0 %	1.5 %	1.0 %	2.2 %	1.4 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	46.665 ppb	46.547 ppb	49.045 ppb	5,084.343 ppb	50.299 ppb	51.956 ppb	54.261 ppb	77.556 ppb	113.914 %
Concentration per Run 1	46.035 ppb	46.253 ppb	48.823 ppb	5,030.080 ppb	50.617 ppb	51.817 ppb	55.242 ppb	77.443 ppb	113.017 %
Concentration per Run 2	47.115 ppb	47.056 ppb	48.910 ppb	5,199.132 ppb	50.588 ppb	53.022 ppb	54.299 ppb	78.994 ppb	113.969 %
Concentration per Run 3	46.843 ppb	46.332 ppb	49.401 ppb	5,023.817 ppb	49.693 ppb	51.028 ppb	53.243 ppb	76.231 ppb	114.755 %
Concentration RSD	1.2 %	1.0 %	0.6 %	2.0 %	1.0 %	1.9 %	1.8 %	1.8 %	0.8 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	54.654 ppb	48.174 ppb	75.336 ppb	52.421 ppb	80.498 %	1.674 ppb	47.786 ppb	78.013 %	53.162 ppb
Concentration per Run 1	56.850 ppb	50.964 ppb	76.971 ppb	52.657 ppb	79.343 %	1.677 ppb	47.784 ppb	79.325 %	52.906 ppb
Concentration per Run 2	53.896 ppb	45.573 ppb	74.778 ppb	52.007 ppb	80.900 %	1.710 ppb	48.011 ppb	77.847 %	52.814 ppb
Concentration per Run 3	53.216 ppb	47.984 ppb	74.260 ppb	52.599 ppb	81.250 %	1.637 ppb	47.563 ppb	76.867 %	53.766 ppb
Concentration RSD	3.5 %	5.6 %	1.9 %	0.7 %	1.3 %	2.2 %	0.5 %	1.6 %	1.0 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	57.749 ppb	102.399 %	93.542 %	49.778 ppb	51.839 ppb
Concentration per Run 1	58.937 ppb	102.468 %	93.134 %	49.407 ppb	51.972 ppb
Concentration per Run 2	56.342 ppb	102.897 %	92.537 %	50.008 ppb	52.076 ppb
Concentration per Run 3	57.968 ppb	101.831 %	94.954 %	49.920 ppb	51.468 ppb
Concentration RSD	2.3 %	0.5 %	1.3 %	0.7 %	0.6 %

Alpha ICPMSQ Data with SRD

3/6/2024 5:52:11 AM

Analysis index:	69	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	WG1892149-7d10 A2-6020T	Rack	3		
Analysis started at:	3/5/2024 11:06:27 PM	Vial	13		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	94.914 %	130.250 %	0.009 ppb	13,562.472 ppb	1,896.556 ppb	61.524 ppb	5,693.312 ppb	1,437.281 ppb	102.612 %
Concentration per Run 1	97.660 %	133.488 %	0.003 ppb	13,640.550 ppb	1,860.013 ppb	59.527 ppb	5,484.977 ppb	1,386.906 ppb	105.139 %
Concentration per Run 2	94.306 %	121.554 %	0.012 ppb	14,321.003 ppb	2,015.663 ppb	63.930 ppb	6,046.819 ppb	1,461.202 ppb	101.944 %
Concentration per Run 3	92.776 %	135.708 %	0.011 ppb	12,725.863 ppb	1,813.991 ppb	61.114 ppb	5,548.140 ppb	1,463.735 ppb	100.753 %
Concentration RSD	2.6 %	5.8 %	53.8 %	5.9 %	5.6 %	3.6 %	5.4 %	3.0 %	2.2 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.519 ppb	1.634 ppb	2.816 ppb	253.911 ppb	0.325 ppb	1.918 ppb	4.827 ppb	30.117 ppb	114.089 %
Concentration per Run 1	0.506 ppb	1.344 ppb	2.564 ppb	266.058 ppb	0.328 ppb	1.813 ppb	4.747 ppb	30.254 ppb	114.822 %
Concentration per Run 2	0.564 ppb	1.357 ppb	2.990 ppb	262.001 ppb	0.334 ppb	2.030 ppb	5.172 ppb	31.609 ppb	109.321 %
Concentration per Run 3	0.486 ppb	2.200 ppb	2.894 ppb	233.672 ppb	0.314 ppb	1.910 ppb	4.563 ppb	28.487 ppb	118.124 %
Concentration RSD	7.8 %	30.0 %	7.9 %	6.9 %	3.2 %	5.7 %	6.5 %	5.2 %	3.9 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	6.060 ppb	0.874 ppb	25.820 ppb	1.865 ppb	80.661 %	0.081 ppb	0.070 ppb	79.079 %	0.553 ppb
Concentration per Run 1	5.769 ppb	0.587 ppb	25.137 ppb	1.809 ppb	83.180 %	0.067 ppb	0.060 ppb	82.519 %	0.497 ppb
Concentration per Run 2	6.637 ppb	1.209 ppb	27.260 ppb	1.845 ppb	77.110 %	0.089 ppb	0.078 ppb	77.476 %	0.553 ppb
Concentration per Run 3	5.775 ppb	0.827 ppb	25.063 ppb	1.940 ppb	81.694 %	0.086 ppb	0.072 ppb	77.241 %	0.610 ppb
Concentration RSD	8.2 %	35.9 %	4.8 %	3.6 %	3.9 %	15.2 %	13.6 %	3.8 %	10.2 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	0.430 ppb	100.963 %	88.835 %	0.172 ppb	0.317 ppb
Concentration per Run 1	0.378 ppb	106.380 %	92.340 %	0.140 ppb	0.307 ppb
Concentration per Run 2	0.533 ppb	95.132 %	86.006 %	0.214 ppb	0.330 ppb
Concentration per Run 3	0.380 ppb	101.378 %	88.160 %	0.163 ppb	0.315 ppb
Concentration RSD	20.7 %	5.6 %	3.6 %	21.9 %	3.6 %

Alpha ICPMSQ Data with SRD

3/6/2024 5:52:11 AM

Analysis index: 70
Analysis label: WG1892149-3D2 A2-6020T
Analysis started at: 3/5/2024 11:11:07 PM
User name ALPHALAB\Metals-Instrument
Rack 3
Vial 8
Comment <Comment>

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	93.102 %	134.136 %	0.023 ppb	59,312.443 ppb	8,176.829 ppb	237.745 ppb	18,890.411 ppb	7,090.235 ppb	119.403 %
Concentration per Run 1	94.615 %	134.876 %	0.028 ppb	58,091.471 ppb	7,950.969 ppb	224.562 ppb	18,252.521 ppb	6,871.205 ppb	121.384 %
Concentration per Run 2	92.533 %	137.928 %	0.025 ppb	57,042.095 ppb	7,873.129 ppb	231.191 ppb	18,495.914 ppb	6,935.434 ppb	118.149 %
Concentration per Run 3	92.157 %	129.603 %	0.015 ppb	62,803.764 ppb	8,706.390 ppb	257.481 ppb	19,922.799 ppb	7,464.065 ppb	118.675 %
Concentration RSD	1.4 %	3.1 %	31.3 %	5.2 %	5.6 %	7.3 %	4.8 %	4.6 %	1.5 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	2.967 ppb	18.188 ppb	11.638 ppb	874.808 ppb	1.449 ppb	16.131 ppb	20.655 ppb	106.354 ppb	113.029 %
Concentration per Run 1	2.869 ppb	17.481 ppb	10.926 ppb	828.204 ppb	1.312 ppb	15.022 ppb	19.259 ppb	99.833 ppb	117.146 %
Concentration per Run 2	2.981 ppb	17.604 ppb	11.586 ppb	868.409 ppb	1.444 ppb	16.139 ppb	19.709 ppb	104.718 ppb	114.040 %
Concentration per Run 3	3.051 ppb	19.479 ppb	12.402 ppb	927.811 ppb	1.590 ppb	17.232 ppb	22.998 ppb	114.512 ppb	107.901 %
Concentration RSD	3.1 %	6.2 %	6.4 %	5.7 %	9.6 %	6.8 %	9.9 %	7.0 %	4.2 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	33.626 ppb	2.743 ppb	124.524 ppb	13.134 ppb	79.535 %	0.355 ppb	0.299 ppb	75.777 %	0.793 ppb
Concentration per Run 1	32.157 ppb	2.072 ppb	116.905 ppb	10.939 ppb	80.515 %	0.343 ppb	0.249 ppb	76.849 %	0.756 ppb
Concentration per Run 2	32.546 ppb	3.283 ppb	125.556 ppb	10.954 ppb	80.233 %	0.356 ppb	0.304 ppb	77.364 %	0.748 ppb
Concentration per Run 3	36.176 ppb	2.873 ppb	131.112 ppb	17.509 ppb	77.858 %	0.365 ppb	0.344 ppb	73.117 %	0.874 ppb
Concentration RSD	6.6 %	22.5 %	5.7 %	28.8 %	1.8 %	3.1 %	15.8 %	3.1 %	8.9 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	4.414 ppb	103.819 %	91.903 %	0.079 ppb	1.345 ppb
Concentration per Run 1	4.498 ppb	104.898 %	92.127 %	0.049 ppb	1.319 ppb
Concentration per Run 2	4.324 ppb	106.781 %	94.546 %	0.096 ppb	1.312 ppb
Concentration per Run 3	4.422 ppb	99.779 %	89.036 %	0.093 ppb	1.404 ppb
Concentration RSD	2.0 %	3.5 %	3.0 %	32.7 %	3.8 %

Alpha ICPMSQ Data with SRD

3/6/2024 5:52:11 AM

Analysis index:	71	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	I2404144-02D2 A2-6020T	Rack	3		
Analysis started at:	3/5/2024 11:15:47 PM	Vial	7		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	94.566 %	135.431 %	0.014 ppb	80,544.784 ppb	10,776.276 ppb	248.959 ppb	26,127.880 ppb	8,080.699 ppb	121.450 %
Concentration per Run 1	96.403 %	125.717 %	0.007 ppb	85,499.331 ppb	11,251.213 ppb	249.143 ppb	26,893.235 ppb	8,050.796 ppb	122.355 %
Concentration per Run 2	94.686 %	144.034 %	0.014 ppb	74,435.650 ppb	9,784.153 ppb	230.898 ppb	24,001.656 ppb	7,623.378 ppb	122.963 %
Concentration per Run 3	92.609 %	136.541 %	0.021 ppb	81,699.371 ppb	11,293.461 ppb	266.835 ppb	27,488.748 ppb	8,567.924 ppb	119.032 %
Concentration RSD	2.0 %	6.8 %	48.6 %	7.0 %	8.0 %	7.2 %	7.1 %	5.9 %	1.7 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	3.091 ppb	17.638 ppb	12.520 ppb	893.120 ppb	1.608 ppb	16.240 ppb	21.846 ppb	125.530 ppb	120.514 %
Concentration per Run 1	2.914 ppb	18.188 ppb	12.519 ppb	939.846 ppb	1.756 ppb	17.145 ppb	23.144 ppb	132.073 ppb	114.364 %
Concentration per Run 2	3.067 ppb	16.880 ppb	11.729 ppb	851.852 ppb	1.547 ppb	15.390 ppb	20.826 ppb	120.495 ppb	122.393 %
Concentration per Run 3	3.290 ppb	17.845 ppb	13.313 ppb	887.663 ppb	1.522 ppb	16.186 ppb	21.567 ppb	124.020 ppb	124.786 %
Concentration RSD	6.1 %	3.8 %	6.3 %	5.0 %	8.0 %	5.4 %	5.4 %	4.7 %	4.5 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	39.923 ppb	3.935 ppb	145.405 ppb	11.730 ppb	81.149 %	0.375 ppb	0.335 ppb	79.433 %	0.503 ppb
Concentration per Run 1	41.914 ppb	4.297 ppb	148.982 ppb	12.294 ppb	78.834 %	0.380 ppb	0.361 ppb	79.391 %	0.492 ppb
Concentration per Run 2	38.478 ppb	3.598 ppb	138.574 ppb	11.327 ppb	80.923 %	0.387 ppb	0.340 ppb	77.057 %	0.460 ppb
Concentration per Run 3	39.376 ppb	3.908 ppb	148.659 ppb	11.569 ppb	83.691 %	0.359 ppb	0.304 ppb	81.849 %	0.557 ppb
Concentration RSD	4.5 %	8.9 %	4.1 %	4.3 %	3.0 %	3.8 %	8.6 %	3.0 %	9.8 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	4.278 ppb	108.025 %	95.313 %	0.051 ppb	1.471 ppb
Concentration per Run 1	4.264 ppb	102.494 %	90.291 %	0.032 ppb	1.549 ppb
Concentration per Run 2	4.309 ppb	108.559 %	94.801 %	0.064 ppb	1.463 ppb
Concentration per Run 3	4.262 ppb	113.020 %	100.847 %	0.058 ppb	1.400 ppb
Concentration RSD	0.6 %	4.9 %	5.6 %	33.2 %	5.1 %

Alpha ICPMSQ Data with SRD

3/6/2024 5:52:11 AM

Analysis index:	72	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	I2404144-03D2 A2-6020T	Rack	3		
Analysis started at:	3/5/2024 11:20:26 PM	Vial	9		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	93.940 %	143.756 %	0.020 ppb	67,408.100 ppb	9,434.030 ppb	304.146 ppb	27,714.496 ppb	7,282.780 ppb	123.913 %
Concentration per Run 1	95.597 %	145.422 %	0.019 ppb	65,662.201 ppb	9,288.839 ppb	290.980 ppb	27,665.799 ppb	7,279.868 ppb	124.501 %
Concentration per Run 2	94.065 %	144.034 %	0.019 ppb	65,570.114 ppb	9,042.747 ppb	285.073 ppb	26,202.011 ppb	6,877.543 ppb	125.701 %
Concentration per Run 3	92.159 %	141.814 %	0.022 ppb	70,991.986 ppb	9,970.504 ppb	336.384 ppb	29,275.678 ppb	7,690.930 ppb	121.538 %
Concentration RSD	1.8 %	1.3 %	9.1 %	4.6 %	5.1 %	9.2 %	5.5 %	5.6 %	1.7 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	2.604 ppb	6.708 ppb	13.256 ppb	1,162.907 ppb	1.525 ppb	8.488 ppb	23.518 ppb	136.655 ppb	119.634 %
Concentration per Run 1	2.588 ppb	6.677 ppb	12.801 ppb	1,187.315 ppb	1.554 ppb	8.746 ppb	24.544 ppb	141.062 ppb	114.304 %
Concentration per Run 2	2.656 ppb	6.641 ppb	13.334 ppb	1,106.303 ppb	1.503 ppb	8.078 ppb	22.760 ppb	130.742 ppb	120.768 %
Concentration per Run 3	2.569 ppb	6.806 ppb	13.633 ppb	1,195.102 ppb	1.517 ppb	8.639 ppb	23.249 ppb	138.161 ppb	123.831 %
Concentration RSD	1.8 %	1.3 %	3.2 %	4.2 %	1.7 %	4.2 %	3.9 %	3.9 %	4.1 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	29.374 ppb	3.675 ppb	131.992 ppb	7.141 ppb	83.720 %	0.403 ppb	0.312 ppb	82.230 %	0.588 ppb
Concentration per Run 1	31.160 ppb	2.914 ppb	131.493 ppb	6.934 ppb	81.693 %	0.396 ppb	0.276 ppb	82.506 %	0.533 ppb
Concentration per Run 2	27.758 ppb	3.676 ppb	126.487 ppb	7.414 ppb	83.588 %	0.428 ppb	0.324 ppb	77.839 %	0.635 ppb
Concentration per Run 3	29.203 ppb	4.434 ppb	137.995 ppb	7.074 ppb	85.879 %	0.385 ppb	0.335 ppb	86.345 %	0.596 ppb
Concentration RSD	5.8 %	20.7 %	4.4 %	3.5 %	2.5 %	5.6 %	10.1 %	5.2 %	8.7 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	2.568 ppb	108.043 %	95.782 %	0.032 ppb	1.339 ppb
Concentration per Run 1	2.674 ppb	106.038 %	93.655 %	0.017 ppb	1.347 ppb
Concentration per Run 2	2.607 ppb	105.946 %	95.720 %	0.039 ppb	1.325 ppb
Concentration per Run 3	2.422 ppb	112.147 %	97.972 %	0.041 ppb	1.345 ppb
Concentration RSD	5.1 %	3.3 %	2.3 %	42.1 %	0.9 %

Alpha ICPMSQ Data with SRD

3/6/2024 5:52:11 AM

Analysis index:	73	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	CCV	Rack	0		
Analysis started at:	3/5/2024 11:25:06 PM	Vial	9		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	93.321 %	148.659 %	60.554 ppb	5,740.053 ppb	5,695.222 ppb	59.195 ppb	5,829.394 ppb	5,423.410 ppb	108.537 %
Concentration per Run 1	94.629 %	144.311 %	60.176 ppb	5,832.719 ppb	5,634.536 ppb	60.274 ppb	5,842.408 ppb	5,494.002 ppb	108.689 %
Concentration per Run 2	92.268 %	145.422 %	60.562 ppb	5,762.111 ppb	5,693.133 ppb	58.127 ppb	5,722.799 ppb	5,359.829 ppb	107.332 %
Concentration per Run 3	93.068 %	156.245 %	60.923 ppb	5,625.329 ppb	5,757.998 ppb	59.183 ppb	5,922.976 ppb	5,416.401 ppb	109.591 %
Recovery Percentage 1			100.923 %	95.668 %	94.920 %	98.658 %	97.157 %	90.390 %	
Concentration RSD	1.3 %	4.4 %	0.6 %	1.8 %	1.1 %	1.8 %	1.7 %	1.2 %	1.0 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	56.497 ppb	56.292 ppb	59.286 ppb	5,924.211 ppb	60.004 ppb	59.929 ppb	61.075 ppb	60.620 ppb	122.807 %
Concentration per Run 1	57.246 ppb	57.335 ppb	60.722 ppb	5,992.865 ppb	61.486 ppb	60.517 ppb	62.715 ppb	61.829 ppb	121.047 %
Concentration per Run 2	57.546 ppb	57.349 ppb	58.159 ppb	5,949.391 ppb	61.069 ppb	61.699 ppb	62.465 ppb	61.493 ppb	117.727 %
Concentration per Run 3	54.700 ppb	54.194 ppb	58.977 ppb	5,830.376 ppb	57.457 ppb	57.571 ppb	58.045 ppb	58.539 ppb	129.647 %
Recovery Percentage 1	94.162 %	93.821 %	98.810 %	98.737 %	100.007 %	99.881 %	101.792 %	101.034 %	
Concentration RSD	2.8 %	3.2 %	2.2 %	1.4 %	3.7 %	3.5 %	4.3 %	3.0 %	5.0 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	61.223 ppb	63.628 ppb	59.619 ppb	56.766 ppb	83.745 %	61.056 ppb	59.365 ppb	83.488 %	61.708 ppb
Concentration per Run 1	61.495 ppb	64.730 ppb	59.268 ppb	55.193 ppb	82.162 %	61.082 ppb	58.742 ppb	81.862 %	61.569 ppb
Concentration per Run 2	62.088 ppb	66.096 ppb	58.984 ppb	56.683 ppb	83.576 %	61.905 ppb	60.152 ppb	81.587 %	61.799 ppb
Concentration per Run 3	60.086 ppb	60.058 ppb	60.605 ppb	58.422 ppb	85.495 %	60.180 ppb	59.202 ppb	87.014 %	61.757 ppb
Recovery Percentage 1	102.038 %	106.046 %	99.365 %	94.610 %		101.759 %	98.942 %		102.847 %
Concentration RSD	1.7 %	5.0 %	1.5 %	2.8 %	2.0 %	1.4 %	1.2 %	3.7 %	0.2 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	70.847 ppb	106.616 %	94.649 %	64.391 ppb	64.277 ppb
Concentration per Run 1	69.982 ppb	104.380 %	92.082 %	64.297 ppb	65.573 ppb
Concentration per Run 2	70.921 ppb	104.934 %	91.826 %	65.699 ppb	64.891 ppb
Concentration per Run 3	71.638 ppb	110.534 %	100.038 %	63.176 ppb	62.366 ppb
Recovery Percentage 1	118.079 %			107.318 %	107.128 %
Concentration RSD	1.2 %	3.2 %	4.9 %	2.0 %	2.6 %

Alpha ICPMSQ Data with SRD

3/6/2024 5:52:11 AM

Analysis index:	74	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	CCB	Rack	0		
Analysis started at:	3/5/2024 11:29:48 PM	Vial	10		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	92.479 %	141.814 %	0.010 ppb	-11.228 ppb	-0.988 ppb	-0.404 ppb	1.814 ppb	2.421 ppb	100.615 %
Concentration per Run 1	94.638 %	140.426 %	0.012 ppb	-13.161 ppb	-1.049 ppb	-0.372 ppb	2.189 ppb	-3.506 ppb	101.762 %
Concentration per Run 2	91.725 %	144.311 %	0.010 ppb	-10.932 ppb	-0.664 ppb	-0.158 ppb	1.968 ppb	-0.983 ppb	99.385 %
Concentration per Run 3	91.074 %	140.704 %	0.008 ppb	-9.590 ppb	-1.251 ppb	-0.682 ppb	1.286 ppb	11.752 ppb	100.697 %
Recovery Percentage 1			1.959 %	-11.228 %	-1.411 %	-4.042 %	1.814 %	2.421 %	
Concentration RSD	2.1 %	1.5 %	21.9 %	16.1 %	30.2 %	65.3 %	25.9 %	337.9 %	1.2 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.008 ppb	0.000 ppb	0.012 ppb	12.732 ppb	0.007 ppb	0.017 ppb	-0.041 ppb	0.134 ppb	120.774 %
Concentration per Run 1	0.026 ppb	0.009 ppb	0.034 ppb	13.483 ppb	0.008 ppb	-0.011 ppb	-0.041 ppb	0.147 ppb	119.491 %
Concentration per Run 2	-0.002 ppb	-0.005 ppb	-0.018 ppb	11.924 ppb	0.005 ppb	0.001 ppb	-0.070 ppb	0.101 ppb	120.276 %
Concentration per Run 3	-0.002 ppb	-0.005 ppb	0.020 ppb	12.789 ppb	0.008 ppb	0.060 ppb	-0.011 ppb	0.153 ppb	122.553 %
Recovery Percentage 1	0.151 %	0.006 %	1.183 %	25.463 %	1.382 %	0.829 %	-4.057 %	2.671 %	
Concentration RSD	215.4 %	12,268.0 %	226.5 %	6.1 %	29.7 %	230.7 %	72.2 %	21.4 %	1.3 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.041 ppb	0.298 ppb	-0.001 ppb	0.920 ppb	84.584 %	0.005 ppb	0.008 ppb	82.212 %	0.415 ppb
Concentration per Run 1	0.055 ppb	0.233 ppb	0.005 ppb	0.894 ppb	83.145 %	0.007 ppb	0.012 ppb	78.191 %	0.408 ppb
Concentration per Run 2	0.036 ppb	0.384 ppb	0.000 ppb	0.961 ppb	84.887 %	0.002 ppb	0.003 ppb	83.216 %	0.408 ppb
Concentration per Run 3	0.031 ppb	0.277 ppb	-0.006 ppb	0.906 ppb	85.719 %	0.005 ppb	0.008 ppb	85.229 %	0.430 ppb
Recovery Percentage 1	8.206 %	5.960 %	-0.007 %	46.016 %		1.134 %	3.997 %		10.385 %
Concentration RSD	31.1 %	26.1 %	787.9 %	3.9 %	1.6 %	52.6 %	56.3 %	4.4 %	3.1 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	-0.090 ppb	102.942 %	91.068 %	0.196 ppb	0.024 ppb
Concentration per Run 1	-0.109 ppb	99.816 %	86.663 %	0.195 ppb	0.030 ppb
Concentration per Run 2	-0.090 ppb	104.071 %	91.828 %	0.230 ppb	0.021 ppb
Concentration per Run 3	-0.071 ppb	104.939 %	94.711 %	0.163 ppb	0.021 ppb
Recovery Percentage 1	-18.028 %			19.627 %	2.416 %
Concentration RSD	20.8 %	2.7 %	4.5 %	17.1 %	21.5 %

Alpha ICPMSQ Data with SRD

3/6/2024 5:52:11 AM

Analysis index: 75
Analysis label: I2404144-01D2 A2-6020T
Analysis started at: 3/5/2024 11:34:30 PM
User name ALPHALAB\Metals-Instrument
Rack 3
Vial 15
Comment <Comment>

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	94.450 %	145.607 %	0.011 ppb	69,535.021 ppb	9,071.606 ppb	139.954 ppb	24,650.134 ppb	7,457.671 ppb	129.775 %
Concentration per Run 1	96.533 %	141.259 %	0.016 ppb	69,579.530 ppb	8,920.972 ppb	132.360 ppb	24,378.336 ppb	7,450.373 ppb	130.837 %
Concentration per Run 2	94.582 %	148.752 %	0.009 ppb	70,305.877 ppb	9,162.788 ppb	149.330 ppb	24,701.384 ppb	7,295.862 ppb	129.492 %
Concentration per Run 3	92.235 %	146.809 %	0.007 ppb	68,719.656 ppb	9,131.059 ppb	138.173 ppb	24,870.684 ppb	7,626.779 ppb	128.996 %
Concentration RSD	2.3 %	2.7 %	48.4 %	1.1 %	1.4 %	6.2 %	1.0 %	2.2 %	0.7 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	1.518 ppb	10.545 ppb	8.647 ppb	592.725 ppb	1.383 ppb	10.909 ppb	15.330 ppb	104.326 ppb	122.217 %
Concentration per Run 1	1.692 ppb	10.764 ppb	9.159 ppb	610.103 ppb	1.517 ppb	11.409 ppb	16.405 ppb	108.256 ppb	112.884 %
Concentration per Run 2	1.411 ppb	10.505 ppb	8.495 ppb	593.346 ppb	1.254 ppb	10.414 ppb	14.634 ppb	100.550 ppb	130.627 %
Concentration per Run 3	1.451 ppb	10.366 ppb	8.288 ppb	574.725 ppb	1.379 ppb	10.903 ppb	14.951 ppb	104.171 ppb	123.141 %
Concentration RSD	10.0 %	1.9 %	5.3 %	3.0 %	9.5 %	4.6 %	6.2 %	3.7 %	7.3 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	35.089 ppb	3.412 ppb	134.950 ppb	9.860 ppb	83.501 %	0.239 ppb	0.266 ppb	83.808 %	0.970 ppb
Concentration per Run 1	37.328 ppb	3.836 ppb	137.567 ppb	10.387 ppb	78.039 %	0.248 ppb	0.293 ppb	77.809 %	1.088 ppb
Concentration per Run 2	33.542 ppb	3.112 ppb	135.945 ppb	9.692 ppb	85.852 %	0.230 ppb	0.232 ppb	88.389 %	0.937 ppb
Concentration per Run 3	34.396 ppb	3.287 ppb	131.337 ppb	9.500 ppb	86.612 %	0.238 ppb	0.271 ppb	85.227 %	0.885 ppb
Concentration RSD	5.7 %	11.1 %	2.4 %	4.7 %	5.7 %	3.7 %	11.7 %	6.5 %	10.9 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	4.169 ppb	108.945 %	97.480 %	0.076 ppb	0.855 ppb
Concentration per Run 1	4.315 ppb	103.397 %	90.527 %	0.066 ppb	0.919 ppb
Concentration per Run 2	4.317 ppb	110.717 %	102.529 %	0.087 ppb	0.813 ppb
Concentration per Run 3	3.877 ppb	112.721 %	99.384 %	0.074 ppb	0.833 ppb
Concentration RSD	6.1 %	4.5 %	6.4 %	14.0 %	6.6 %

Alpha ICPMSQ Data with SRD

3/6/2024 5:52:11 AM

Analysis index:	76	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	I2404144-04D2 A2-6020T	Rack	3		
Analysis started at:	3/5/2024 11:39:10 PM	Vial	16		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	95.196 %	139.038 %	0.015 ppb	68,493.784 ppb	7,504.295 ppb	361.561 ppb	24,069.601 ppb	6,625.133 ppb	117.428 %
Concentration per Run 1	95.983 %	129.325 %	0.013 ppb	72,421.005 ppb	7,914.980 ppb	393.664 ppb	25,346.856 ppb	6,929.591 ppb	117.802 %
Concentration per Run 2	96.635 %	142.091 %	0.011 ppb	67,698.787 ppb	7,546.265 ppb	357.435 ppb	24,282.493 ppb	6,708.988 ppb	119.541 %
Concentration per Run 3	92.969 %	145.699 %	0.021 ppb	65,361.561 ppb	7,051.638 ppb	333.584 ppb	22,579.454 ppb	6,236.821 ppb	114.941 %
Concentration RSD	2.1 %	6.2 %	36.7 %	5.3 %	5.8 %	8.4 %	5.8 %	5.3 %	2.0 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	2.774 ppb	33.664 ppb	24.042 ppb	1,100.828 ppb	2.749 ppb	30.107 ppb	19.308 ppb	166.375 ppb	119.213 %
Concentration per Run 1	2.834 ppb	35.844 ppb	29.615 ppb	1,159.421 ppb	2.989 ppb	31.382 ppb	20.370 ppb	177.664 ppb	110.938 %
Concentration per Run 2	2.835 ppb	33.344 ppb	22.112 ppb	1,087.468 ppb	2.678 ppb	29.306 ppb	18.553 ppb	161.002 ppb	126.578 %
Concentration per Run 3	2.654 ppb	31.802 ppb	20.399 ppb	1,055.596 ppb	2.579 ppb	29.632 ppb	19.000 ppb	160.457 ppb	120.123 %
Concentration RSD	3.8 %	6.1 %	20.4 %	4.8 %	7.8 %	3.7 %	4.9 %	5.9 %	6.6 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	43.435 ppb	3.596 ppb	134.863 ppb	15.581 ppb	82.620 %	0.414 ppb	0.287 ppb	82.536 %	0.429 ppb
Concentration per Run 1	46.645 ppb	4.234 ppb	139.863 ppb	16.368 ppb	78.916 %	0.439 ppb	0.303 ppb	74.987 %	0.440 ppb
Concentration per Run 2	41.646 ppb	3.526 ppb	136.433 ppb	14.977 ppb	85.562 %	0.420 ppb	0.231 ppb	90.017 %	0.397 ppb
Concentration per Run 3	42.015 ppb	3.028 ppb	128.293 ppb	15.398 ppb	83.381 %	0.385 ppb	0.328 ppb	82.603 %	0.451 ppb
Concentration RSD	6.4 %	16.9 %	4.4 %	4.6 %	4.1 %	6.6 %	17.6 %	9.1 %	6.7 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	5.874 ppb	108.227 %	96.375 %	0.026 ppb	1.348 ppb
Concentration per Run 1	6.100 ppb	102.047 %	88.542 %	0.014 ppb	1.459 ppb
Concentration per Run 2	6.032 ppb	113.344 %	102.239 %	0.034 ppb	1.281 ppb
Concentration per Run 3	5.490 ppb	109.290 %	98.345 %	0.030 ppb	1.304 ppb
Concentration RSD	5.7 %	5.3 %	7.3 %	40.3 %	7.2 %

Alpha ICPMSQ Data with SRD

3/6/2024 5:52:11 AM

Analysis index:	77	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	I2404144-05D2 A2-6020T	Rack	3		
Analysis started at:	3/5/2024 11:43:50 PM	Vial	17		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	96.152 %	149.492 %	0.011 ppb	56,497.049 ppb	6,379.462 ppb	246.761 ppb	17,297.945 ppb	5,537.416 ppb	122.500 %
Concentration per Run 1	97.839 %	142.924 %	0.015 ppb	58,264.932 ppb	6,372.065 ppb	243.755 ppb	17,842.183 ppb	5,723.029 ppb	123.641 %
Concentration per Run 2	95.155 %	152.082 %	0.003 ppb	57,302.762 ppb	6,617.449 ppb	258.550 ppb	17,357.054 ppb	5,546.910 ppb	120.910 %
Concentration per Run 3	95.463 %	153.470 %	0.014 ppb	53,923.452 ppb	6,148.872 ppb	237.977 ppb	16,694.599 ppb	5,342.308 ppb	122.948 %
Concentration RSD	1.5 %	3.8 %	62.8 %	4.0 %	3.7 %	4.3 %	3.3 %	3.4 %	1.2 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	2.294 ppb	1.999 ppb	15.434 ppb	784.923 ppb	1.594 ppb	5.444 ppb	18.197 ppb	122.508 ppb	120.343 %
Concentration per Run 1	2.414 ppb	2.117 ppb	15.951 ppb	810.918 ppb	1.700 ppb	5.780 ppb	18.764 ppb	124.545 ppb	116.941 %
Concentration per Run 2	2.232 ppb	1.832 ppb	15.971 ppb	789.532 ppb	1.512 ppb	5.427 ppb	17.738 ppb	121.834 ppb	124.094 %
Concentration per Run 3	2.236 ppb	2.047 ppb	14.379 ppb	754.319 ppb	1.571 ppb	5.124 ppb	18.087 ppb	121.146 ppb	119.993 %
Concentration RSD	4.5 %	7.4 %	5.9 %	3.6 %	6.0 %	6.0 %	2.9 %	1.5 %	3.0 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	30.904 ppb	2.369 ppb	119.791 ppb	8.938 ppb	85.389 %	0.412 ppb	0.300 ppb	84.658 %	0.327 ppb
Concentration per Run 1	31.151 ppb	2.647 ppb	118.296 ppb	9.000 ppb	84.655 %	0.449 ppb	0.309 ppb	82.860 %	0.348 ppb
Concentration per Run 2	31.174 ppb	2.494 ppb	124.172 ppb	9.031 ppb	86.284 %	0.401 ppb	0.273 ppb	88.385 %	0.291 ppb
Concentration per Run 3	30.388 ppb	1.965 ppb	116.906 ppb	8.783 ppb	85.229 %	0.387 ppb	0.317 ppb	82.728 %	0.341 ppb
Concentration RSD	1.4 %	15.1 %	3.2 %	1.5 %	1.0 %	7.9 %	7.8 %	3.8 %	9.4 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	5.244 ppb	111.216 %	98.819 %	0.010 ppb	1.400 ppb
Concentration per Run 1	5.185 ppb	107.531 %	93.906 %	0.000 ppb	1.473 ppb
Concentration per Run 2	5.673 ppb	115.893 %	106.225 %	0.013 ppb	1.311 ppb
Concentration per Run 3	4.873 ppb	110.225 %	96.325 %	0.018 ppb	1.415 ppb
Concentration RSD	7.7 %	3.8 %	6.6 %	93.3 %	5.9 %

Alpha ICPMSQ Data with SRD

3/6/2024 5:52:11 AM

Analysis index: 78
Analysis label: I2404144-06D2 A2-6020T
Analysis started at: 3/5/2024 11:48:30 PM
User name ALPHALAB\Metals-Instrument
Rack 3
Vial 18
Comment <Comment>

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	96.556 %	150.787 %	0.008 ppb	55,312.389 ppb	6,213.066 ppb	257.142 ppb	20,629.405 ppb	4,213.103 ppb	125.112 %
Concentration per Run 1	96.972 %	135.708 %	0.010 ppb	59,398.182 ppb	6,755.709 ppb	276.195 ppb	21,615.732 ppb	4,514.088 ppb	123.124 %
Concentration per Run 2	97.750 %	167.901 %	0.011 ppb	52,065.140 ppb	5,775.892 ppb	238.906 ppb	19,650.049 ppb	3,922.094 ppb	127.006 %
Concentration per Run 3	94.944 %	148.752 %	0.002 ppb	54,473.846 ppb	6,107.598 ppb	256.324 ppb	20,622.435 ppb	4,203.127 ppb	125.207 %
Concentration RSD	1.5 %	10.7 %	62.9 %	6.8 %	8.0 %	7.3 %	4.8 %	7.0 %	1.6 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	2.110 ppb	11.863 ppb	17.021 ppb	777.821 ppb	2.070 ppb	13.854 ppb	16.285 ppb	120.444 ppb	123.908 %
Concentration per Run 1	2.525 ppb	13.195 ppb	17.723 ppb	832.678 ppb	2.199 ppb	15.395 ppb	17.268 ppb	129.215 ppb	117.054 %
Concentration per Run 2	1.881 ppb	10.725 ppb	16.201 ppb	704.250 ppb	1.892 ppb	12.110 ppb	14.697 ppb	110.704 ppb	134.956 %
Concentration per Run 3	1.923 ppb	11.669 ppb	17.140 ppb	796.535 ppb	2.118 ppb	14.058 ppb	16.892 ppb	121.414 ppb	119.713 %
Concentration RSD	17.1 %	10.5 %	4.5 %	8.5 %	7.7 %	11.9 %	8.5 %	7.7 %	7.8 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	35.951 ppb	3.083 ppb	103.242 ppb	10.774 ppb	87.227 %	0.317 ppb	0.271 ppb	85.964 %	0.303 ppb
Concentration per Run 1	37.909 ppb	2.759 ppb	111.194 ppb	11.403 ppb	83.636 %	0.353 ppb	0.283 ppb	80.780 %	0.324 ppb
Concentration per Run 2	33.355 ppb	2.993 ppb	96.162 ppb	10.371 ppb	92.235 %	0.278 ppb	0.284 ppb	91.555 %	0.271 ppb
Concentration per Run 3	36.589 ppb	3.496 ppb	102.372 ppb	10.549 ppb	85.810 %	0.320 ppb	0.247 ppb	85.558 %	0.313 ppb
Concentration RSD	6.5 %	12.2 %	7.3 %	5.1 %	5.1 %	11.9 %	7.8 %	6.3 %	9.3 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	4.744 ppb	112.592 %	99.251 %	0.003 ppb	1.192 ppb
Concentration per Run 1	4.600 ppb	106.131 %	95.620 %	-0.004 ppb	1.259 ppb
Concentration per Run 2	4.903 ppb	120.774 %	106.142 %	0.004 ppb	1.100 ppb
Concentration per Run 3	4.728 ppb	110.872 %	95.991 %	0.010 ppb	1.216 ppb
Concentration RSD	3.2 %	6.6 %	6.0 %	199.6 %	6.9 %

Alpha ICPMSQ Data with SRD

3/6/2024 5:52:11 AM

Analysis index:	79	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	I2404144-07D2 A2-6020T	Rack	3		
Analysis started at:	3/5/2024 11:53:10 PM	Vial	19		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	93.694 %	131.730 %	0.073 ppb	93,521.354 ppb	10,641.600 ppb	943.483 ppb	31,071.410 ppb	6,706.590 ppb	129.229 %
Concentration per Run 1	93.834 %	135.431 %	0.065 ppb	96,019.874 ppb	11,059.174 ppb	960.422 ppb	33,369.148 ppb	7,237.205 ppb	128.744 %
Concentration per Run 2	94.326 %	133.210 %	0.076 ppb	89,882.459 ppb	10,220.944 ppb	926.142 ppb	29,906.672 ppb	6,365.681 ppb	130.183 %
Concentration per Run 3	92.922 %	126.550 %	0.077 ppb	94,661.728 ppb	10,644.681 ppb	943.886 ppb	29,938.408 ppb	6,516.882 ppb	128.761 %
Concentration RSD	0.8 %	3.5 %	8.9 %	3.4 %	3.9 %	1.8 %	6.4 %	6.9 %	0.6 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	3.879 ppb	8.897 ppb	38.329 ppb	2,210.446 ppb	2.054 ppb	9.839 ppb	29.306 ppb	196.433 ppb	122.152 %
Concentration per Run 1	3.787 ppb	8.815 ppb	39.851 ppb	2,317.896 ppb	2.109 ppb	10.079 ppb	30.136 ppb	205.965 ppb	121.884 %
Concentration per Run 2	3.934 ppb	9.109 ppb	37.099 ppb	2,174.360 ppb	1.967 ppb	9.351 ppb	29.045 ppb	194.727 ppb	121.354 %
Concentration per Run 3	3.916 ppb	8.765 ppb	38.036 ppb	2,139.081 ppb	2.085 ppb	10.087 ppb	28.737 ppb	188.607 ppb	123.217 %
Concentration RSD	2.1 %	2.1 %	3.6 %	4.3 %	3.7 %	4.3 %	2.5 %	4.5 %	0.8 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	46.394 ppb	4.282 ppb	157.172 ppb	12.863 ppb	83.737 %	0.511 ppb	0.327 ppb	82.248 %	0.583 ppb
Concentration per Run 1	49.187 ppb	4.721 ppb	170.697 ppb	13.445 ppb	80.433 %	0.559 ppb	0.356 ppb	81.625 %	0.621 ppb
Concentration per Run 2	45.782 ppb	4.373 ppb	150.462 ppb	13.082 ppb	85.311 %	0.484 ppb	0.346 ppb	79.514 %	0.568 ppb
Concentration per Run 3	44.213 ppb	3.751 ppb	150.357 ppb	12.063 ppb	85.469 %	0.492 ppb	0.280 ppb	85.605 %	0.560 ppb
Concentration RSD	5.5 %	11.5 %	7.5 %	5.6 %	3.4 %	8.0 %	12.6 %	3.8 %	5.7 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	9.815 ppb	110.291 %	98.642 %	0.041 ppb	9.393 ppb
Concentration per Run 1	11.050 ppb	106.572 %	95.643 %	0.035 ppb	9.949 ppb
Concentration per Run 2	9.329 ppb	111.202 %	100.054 %	0.042 ppb	9.144 ppb
Concentration per Run 3	9.067 ppb	113.097 %	100.228 %	0.046 ppb	9.087 ppb
Concentration RSD	11.0 %	3.0 %	2.6 %	13.6 %	5.1 %

Alpha ICPMSQ Data with SRD

3/6/2024 5:52:11 AM

Analysis index:	80	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	I2404144-08D2 A2-6020T	Rack	3		
Analysis started at:	3/5/2024 11:57:50 PM	Vial	20		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	96.292 %	149.122 %	0.037 ppb	90,739.553 ppb	9,935.355 ppb	502.680 ppb	29,611.175 ppb	8,646.315 ppb	127.708 %
Concentration per Run 1	98.149 %	147.642 %	0.044 ppb	94,289.777 ppb	10,424.283 ppb	525.562 ppb	31,507.461 ppb	9,184.126 ppb	129.102 %
Concentration per Run 2	96.167 %	150.417 %	0.029 ppb	87,694.681 ppb	9,501.807 ppb	504.235 ppb	29,453.874 ppb	8,519.999 ppb	127.683 %
Concentration per Run 3	94.561 %	149.307 %	0.039 ppb	90,234.201 ppb	9,879.974 ppb	478.244 ppb	27,872.188 ppb	8,234.821 ppb	126.339 %
Concentration RSD	1.9 %	0.9 %	20.8 %	3.7 %	4.7 %	4.7 %	6.2 %	5.6 %	1.1 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	2.959 ppb	2.877 ppb	21.888 ppb	1,374.067 ppb	2.066 ppb	6.641 ppb	27.307 ppb	170.255 ppb	123.774 %
Concentration per Run 1	2.780 ppb	2.833 ppb	22.053 ppb	1,377.360 ppb	1.962 ppb	6.537 ppb	26.496 ppb	171.039 ppb	130.593 %
Concentration per Run 2	3.058 ppb	2.860 ppb	21.674 ppb	1,353.553 ppb	2.167 ppb	6.743 ppb	27.932 ppb	172.200 ppb	119.687 %
Concentration per Run 3	3.039 ppb	2.937 ppb	21.938 ppb	1,391.288 ppb	2.069 ppb	6.644 ppb	27.492 ppb	167.525 ppb	121.043 %
Concentration RSD	5.3 %	1.9 %	0.9 %	1.4 %	5.0 %	1.6 %	2.7 %	1.4 %	4.8 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	61.591 ppb	3.655 ppb	167.992 ppb	14.567 ppb	85.655 %	0.498 ppb	0.313 ppb	83.780 %	0.355 ppb
Concentration per Run 1	61.909 ppb	3.949 ppb	175.181 ppb	14.347 ppb	86.877 %	0.516 ppb	0.307 ppb	88.089 %	0.340 ppb
Concentration per Run 2	63.110 ppb	4.008 ppb	166.497 ppb	14.524 ppb	85.200 %	0.497 ppb	0.336 ppb	83.273 %	0.351 ppb
Concentration per Run 3	59.754 ppb	3.008 ppb	162.299 ppb	14.831 ppb	84.887 %	0.480 ppb	0.295 ppb	79.979 %	0.374 ppb
Concentration RSD	2.8 %	15.4 %	3.9 %	1.7 %	1.2 %	3.5 %	6.7 %	4.9 %	4.8 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	6.712 ppb	112.225 %	100.080 %	0.004 ppb	7.545 ppb
Concentration per Run 1	6.991 ppb	113.249 %	101.572 %	-0.007 ppb	7.468 ppb
Concentration per Run 2	6.450 ppb	113.504 %	100.512 %	0.011 ppb	7.541 ppb
Concentration per Run 3	6.695 ppb	109.922 %	98.156 %	0.009 ppb	7.627 ppb
Concentration RSD	4.0 %	1.8 %	1.7 %	220.3 %	1.1 %

Alpha ICPMSQ Data with SRD

3/6/2024 5:52:11 AM

Analysis index: 81
Analysis label: I2404144-09D2 A2-6020T
Analysis started at: 3/6/2024 12:02:30 AM

User name ALPHALAB\Metals-Instrument
Rack 3
Vial 21

Comment <Comment>

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	97.599 %	144.311 %	0.033 ppb	58,199.904 ppb	6,280.513 ppb	566.301 ppb	21,413.316 ppb	7,039.111 ppb	125.723 %
Concentration per Run 1	100.338 %	156.800 %	0.037 ppb	57,380.656 ppb	6,252.874 ppb	593.871 ppb	22,599.711 ppb	7,594.251 ppb	127.841 %
Concentration per Run 2	97.065 %	141.259 %	0.026 ppb	59,139.664 ppb	6,367.871 ppb	557.673 ppb	21,537.466 ppb	6,953.843 ppb	126.379 %
Concentration per Run 3	95.393 %	134.876 %	0.037 ppb	58,079.391 ppb	6,220.793 ppb	547.360 ppb	20,102.770 ppb	6,569.238 ppb	122.950 %
Concentration RSD	2.6 %	7.8 %	19.2 %	1.5 %	1.2 %	4.3 %	5.9 %	7.4 %	2.0 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	2.336 ppb	3.917 ppb	19.834 ppb	1,377.978 ppb	1.433 ppb	5.728 ppb	21.809 ppb	128.526 ppb	124.174 %
Concentration per Run 1	2.162 ppb	3.890 ppb	20.658 ppb	1,391.094 ppb	1.376 ppb	5.918 ppb	21.817 ppb	129.989 ppb	130.611 %
Concentration per Run 2	2.405 ppb	3.754 ppb	19.664 ppb	1,396.879 ppb	1.453 ppb	5.341 ppb	21.433 ppb	125.229 ppb	124.000 %
Concentration per Run 3	2.440 ppb	4.106 ppb	19.181 ppb	1,345.960 ppb	1.470 ppb	5.923 ppb	22.179 ppb	130.362 ppb	117.911 %
Concentration RSD	6.5 %	4.5 %	3.8 %	2.0 %	3.5 %	5.8 %	1.7 %	2.2 %	5.1 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	33.447 ppb	2.626 ppb	116.859 ppb	10.184 ppb	86.762 %	0.373 ppb	0.231 ppb	84.787 %	0.207 ppb
Concentration per Run 1	34.072 ppb	3.054 ppb	124.110 ppb	10.078 ppb	86.543 %	0.356 ppb	0.262 ppb	88.964 %	0.181 ppb
Concentration per Run 2	33.392 ppb	2.208 ppb	113.188 ppb	10.192 ppb	89.011 %	0.366 ppb	0.215 ppb	85.104 %	0.206 ppb
Concentration per Run 3	32.877 ppb	2.616 ppb	113.280 ppb	10.282 ppb	84.733 %	0.397 ppb	0.216 ppb	80.293 %	0.235 ppb
Concentration RSD	1.8 %	16.1 %	5.4 %	1.0 %	2.5 %	5.7 %	11.7 %	5.1 %	13.1 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	6.326 ppb	111.214 %	98.896 %	0.002 ppb	7.102 ppb
Concentration per Run 1	7.184 ppb	110.444 %	101.753 %	-0.008 ppb	7.179 ppb
Concentration per Run 2	6.052 ppb	114.996 %	99.908 %	0.008 ppb	6.970 ppb
Concentration per Run 3	5.741 ppb	108.201 %	95.027 %	0.007 ppb	7.156 ppb
Concentration RSD	12.0 %	3.1 %	3.5 %	407.5 %	1.6 %

Alpha ICPMSQ Data with SRD

3/6/2024 5:52:11 AM

Analysis index:	82	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	I2404144-10D2 A2-6020T	Rack	3		
Analysis started at:	3/6/2024 12:07:10 AM	Vial	22		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	96.791 %	155.690 %	0.039 ppb	48,844.030 ppb	5,812.196 ppb	572.704 ppb	21,526.817 ppb	7,613.062 ppb	122.972 %
Concentration per Run 1	97.916 %	163.183 %	0.039 ppb	49,607.691 ppb	5,997.382 ppb	595.953 ppb	23,188.352 ppb	8,075.390 ppb	122.118 %
Concentration per Run 2	97.050 %	164.848 %	0.041 ppb	45,214.659 ppb	5,295.150 ppb	515.673 ppb	19,365.590 ppb	7,070.360 ppb	125.245 %
Concentration per Run 3	95.406 %	139.038 %	0.037 ppb	51,709.740 ppb	6,144.056 ppb	606.485 ppb	22,026.510 ppb	7,693.436 ppb	121.552 %
Concentration RSD	1.3 %	9.3 %	5.3 %	6.8 %	7.8 %	8.7 %	9.1 %	6.7 %	1.6 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	2.696 ppb	4.640 ppb	22.398 ppb	1,519.298 ppb	1.435 ppb	6.249 ppb	28.089 ppb	143.931 ppb	126.161 %
Concentration per Run 1	2.883 ppb	4.759 ppb	24.006 ppb	1,623.597 ppb	1.498 ppb	6.282 ppb	29.701 ppb	152.084 ppb	123.662 %
Concentration per Run 2	2.530 ppb	4.461 ppb	21.026 ppb	1,425.887 ppb	1.331 ppb	6.142 ppb	27.175 ppb	139.375 ppb	127.759 %
Concentration per Run 3	2.674 ppb	4.700 ppb	22.161 ppb	1,508.410 ppb	1.476 ppb	6.323 ppb	27.392 ppb	140.334 ppb	127.062 %
Concentration RSD	6.6 %	3.4 %	6.7 %	6.5 %	6.3 %	1.5 %	5.0 %	4.9 %	1.7 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	35.825 ppb	3.352 ppb	117.454 ppb	11.859 ppb	87.064 %	0.532 ppb	0.330 ppb	85.938 %	0.211 ppb
Concentration per Run 1	38.572 ppb	3.442 ppb	128.776 ppb	12.055 ppb	85.237 %	0.545 ppb	0.323 ppb	88.373 %	0.204 ppb
Concentration per Run 2	34.227 ppb	2.746 ppb	110.752 ppb	11.889 ppb	88.505 %	0.519 ppb	0.351 ppb	82.750 %	0.238 ppb
Concentration per Run 3	34.676 ppb	3.869 ppb	112.833 ppb	11.635 ppb	87.449 %	0.532 ppb	0.316 ppb	86.690 %	0.191 ppb
Concentration RSD	6.7 %	16.9 %	8.4 %	1.8 %	1.9 %	2.5 %	5.7 %	3.4 %	11.5 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	6.782 ppb	113.116 %	101.155 %	0.002 ppb	7.375 ppb
Concentration per Run 1	7.254 ppb	111.647 %	102.252 %	-0.007 ppb	7.476 ppb
Concentration per Run 2	6.609 ppb	111.942 %	99.878 %	0.008 ppb	7.351 ppb
Concentration per Run 3	6.485 ppb	115.760 %	101.335 %	0.005 ppb	7.299 ppb
Concentration RSD	6.1 %	2.0 %	1.2 %	442.1 %	1.2 %

Alpha ICPMSQ Data with SRD

3/6/2024 5:52:11 AM

Analysis index: 83
Analysis label: I2404144-11D2 A2-6020T
Analysis started at: 3/6/2024 12:11:50 AM

User name ALPHALAB\Metals-Instrument
Rack 3
Vial 23

Comment <Comment>

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	95.152 %	150.139 %	0.047 ppb	57,897.944 ppb	6,915.163 ppb	733.129 ppb	23,249.966 ppb	4,482.868 ppb	126.643 %
Concentration per Run 1	97.464 %	149.862 %	0.055 ppb	59,127.232 ppb	7,109.286 ppb	746.337 ppb	23,470.594 ppb	4,592.095 ppb	127.597 %
Concentration per Run 2	93.996 %	147.364 %	0.044 ppb	58,443.972 ppb	6,869.104 ppb	731.407 ppb	23,078.024 ppb	4,443.375 ppb	126.314 %
Concentration per Run 3	93.995 %	153.192 %	0.043 ppb	56,122.627 ppb	6,767.099 ppb	721.643 ppb	23,201.281 ppb	4,413.134 ppb	126.018 %
Concentration RSD	2.1 %	1.9 %	13.8 %	2.7 %	2.5 %	1.7 %	0.9 %	2.1 %	0.7 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	3.288 ppb	17.886 ppb	31.721 ppb	2,244.012 ppb	2.307 ppb	17.616 ppb	34.247 ppb	160.809 ppb	123.000 %
Concentration per Run 1	3.470 ppb	19.128 ppb	31.706 ppb	2,310.389 ppb	2.397 ppb	17.914 ppb	35.305 ppb	166.801 ppb	119.917 %
Concentration per Run 2	3.026 ppb	17.744 ppb	32.375 ppb	2,184.285 ppb	2.307 ppb	17.432 ppb	34.002 ppb	158.102 ppb	123.788 %
Concentration per Run 3	3.369 ppb	16.787 ppb	31.082 ppb	2,237.361 ppb	2.216 ppb	17.502 ppb	33.433 ppb	157.524 ppb	125.294 %
Concentration RSD	7.1 %	6.6 %	2.0 %	2.8 %	3.9 %	1.5 %	2.8 %	3.2 %	2.3 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	50.320 ppb	4.280 ppb	114.426 ppb	17.827 ppb	85.699 %	0.585 ppb	0.349 ppb	84.050 %	0.253 ppb
Concentration per Run 1	51.297 ppb	4.600 ppb	117.082 ppb	18.169 ppb	84.436 %	0.583 ppb	0.323 ppb	83.529 %	0.244 ppb
Concentration per Run 2	49.876 ppb	3.950 ppb	113.281 ppb	17.542 ppb	86.698 %	0.578 ppb	0.371 ppb	84.873 %	0.261 ppb
Concentration per Run 3	49.787 ppb	4.289 ppb	112.915 ppb	17.769 ppb	85.964 %	0.593 ppb	0.354 ppb	83.747 %	0.253 ppb
Concentration RSD	1.7 %	7.6 %	2.0 %	1.8 %	1.3 %	1.3 %	7.0 %	0.9 %	3.4 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	8.623 ppb	110.775 %	97.691 %	0.011 ppb	9.827 ppb
Concentration per Run 1	8.995 ppb	109.451 %	96.907 %	-0.001 ppb	9.990 ppb
Concentration per Run 2	8.248 ppb	111.812 %	97.833 %	0.016 ppb	9.876 ppb
Concentration per Run 3	8.625 ppb	111.062 %	98.334 %	0.018 ppb	9.615 ppb
Concentration RSD	4.3 %	1.1 %	0.7 %	93.0 %	2.0 %

Alpha ICPMSQ Data with SRD

3/6/2024 5:52:11 AM

Analysis index:	84	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	I2404144-12D2 A2-6020T	Rack	3		
Analysis started at:	3/6/2024 12:16:30 AM	Vial	24		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	91.840 %	151.065 %	0.061 ppb	47,970.176 ppb	6,039.913 ppb	827.088 ppb	20,804.405 ppb	7,658.052 ppb	123.636 %
Concentration per Run 1	85.488 %	149.862 %	0.067 ppb	48,751.284 ppb	6,216.544 ppb	821.590 ppb	20,895.131 ppb	7,726.320 ppb	115.214 %
Concentration per Run 2	93.234 %	154.302 %	0.054 ppb	47,386.697 ppb	5,912.145 ppb	815.449 ppb	20,743.922 ppb	7,565.560 ppb	127.828 %
Concentration per Run 3	96.798 %	149.029 %	0.062 ppb	47,772.546 ppb	5,991.050 ppb	844.226 ppb	20,774.161 ppb	7,682.276 ppb	127.865 %
Concentration RSD	6.3 %	1.9 %	10.8 %	1.5 %	2.6 %	1.8 %	0.4 %	1.1 %	5.9 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	3.505 ppb	21.940 ppb	31.906 ppb	2,277.105 ppb	2.565 ppb	18.381 ppb	32.432 ppb	154.715 ppb	121.469 %
Concentration per Run 1	3.560 ppb	21.512 ppb	30.704 ppb	2,265.359 ppb	2.487 ppb	18.534 ppb	33.102 ppb	157.153 ppb	120.616 %
Concentration per Run 2	3.503 ppb	21.896 ppb	31.426 ppb	2,315.788 ppb	2.589 ppb	18.502 ppb	33.137 ppb	157.201 ppb	119.637 %
Concentration per Run 3	3.451 ppb	22.411 ppb	33.587 ppb	2,250.169 ppb	2.619 ppb	18.107 ppb	31.057 ppb	149.790 ppb	124.154 %
Concentration RSD	1.6 %	2.1 %	4.7 %	1.5 %	2.7 %	1.3 %	3.7 %	2.8 %	2.0 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	39.241 ppb	2.810 ppb	123.285 ppb	12.799 ppb	85.108 %	0.567 ppb	0.364 ppb	82.723 %	0.173 ppb
Concentration per Run 1	39.366 ppb	2.157 ppb	126.032 ppb	12.878 ppb	82.854 %	0.566 ppb	0.377 ppb	80.766 %	0.187 ppb
Concentration per Run 2	39.729 ppb	2.987 ppb	122.575 ppb	12.373 ppb	86.133 %	0.589 ppb	0.379 ppb	84.558 %	0.163 ppb
Concentration per Run 3	38.626 ppb	3.288 ppb	121.248 ppb	13.145 ppb	86.336 %	0.547 ppb	0.336 ppb	82.844 %	0.169 ppb
Concentration RSD	1.4 %	20.9 %	2.0 %	3.1 %	2.3 %	3.7 %	6.8 %	2.3 %	7.3 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	7.367 ppb	111.744 %	99.010 %	0.004 ppb	21.766 ppb
Concentration per Run 1	7.380 ppb	110.659 %	97.475 %	-0.008 ppb	21.890 ppb
Concentration per Run 2	7.303 ppb	110.816 %	99.507 %	0.009 ppb	21.645 ppb
Concentration per Run 3	7.420 ppb	113.757 %	100.048 %	0.010 ppb	21.762 ppb
Concentration RSD	0.8 %	1.6 %	1.4 %	263.9 %	0.6 %

Alpha ICPMSQ Data with SRD

3/6/2024 5:52:11 AM

Analysis index:	85	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	CCV	Rack	0		
Analysis started at:	3/6/2024 12:21:10 AM	Vial	9		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	95.067 %	149.862 %	61.467 ppb	5,849.646 ppb	5,775.867 ppb	57.963 ppb	5,594.461 ppb	5,357.419 ppb	109.487 %
Concentration per Run 1	96.910 %	155.413 %	60.404 ppb	5,784.184 ppb	5,766.796 ppb	56.869 ppb	5,558.316 ppb	5,274.480 ppb	109.686 %
Concentration per Run 2	96.062 %	144.866 %	61.782 ppb	6,023.996 ppb	5,902.082 ppb	60.293 ppb	5,726.154 ppb	5,552.743 ppb	110.038 %
Concentration per Run 3	92.229 %	149.307 %	62.215 ppb	5,740.759 ppb	5,658.724 ppb	56.728 ppb	5,498.913 ppb	5,245.034 ppb	108.737 %
Recovery Percentage 1			102.445 %	97.494 %	96.264 %	96.605 %	93.241 %	89.290 %	
Concentration RSD	2.6 %	3.5 %	1.5 %	2.6 %	2.1 %	3.5 %	2.1 %	3.2 %	0.6 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	55.542 ppb	55.539 ppb	56.934 ppb	5,840.458 ppb	60.154 ppb	59.671 ppb	60.344 ppb	59.503 ppb	129.509 %
Concentration per Run 1	55.636 ppb	55.537 ppb	57.483 ppb	5,878.911 ppb	61.656 ppb	61.991 ppb	61.026 ppb	59.679 ppb	128.150 %
Concentration per Run 2	56.514 ppb	56.041 ppb	58.095 ppb	5,985.501 ppb	60.753 ppb	60.346 ppb	61.636 ppb	61.230 ppb	128.406 %
Concentration per Run 3	54.476 ppb	55.038 ppb	55.223 ppb	5,656.962 ppb	58.053 ppb	56.678 ppb	58.371 ppb	57.600 ppb	131.970 %
Recovery Percentage 1	92.570 %	92.565 %	94.890 %	97.341 %	100.256 %	99.452 %	100.574 %	99.172 %	
Concentration RSD	1.8 %	0.9 %	2.7 %	2.9 %	3.1 %	4.6 %	2.9 %	3.1 %	1.6 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	58.571 ppb	60.310 ppb	56.665 ppb	55.932 ppb	86.486 %	61.304 ppb	59.499 ppb	83.399 %	61.643 ppb
Concentration per Run 1	58.449 ppb	59.090 ppb	57.513 ppb	55.106 ppb	85.661 %	62.461 ppb	60.644 ppb	84.255 %	60.948 ppb
Concentration per Run 2	59.871 ppb	62.685 ppb	56.871 ppb	57.115 ppb	87.121 %	60.677 ppb	59.578 ppb	83.348 %	61.092 ppb
Concentration per Run 3	57.392 ppb	59.156 ppb	55.611 ppb	55.576 ppb	86.676 %	60.774 ppb	58.274 ppb	82.595 %	62.890 ppb
Recovery Percentage 1	97.618 %	100.517 %	94.442 %	93.221 %		102.173 %	99.164 %		102.738 %
Concentration RSD	2.1 %	3.4 %	1.7 %	1.9 %	0.9 %	1.6 %	2.0 %	1.0 %	1.8 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	69.528 ppb	107.134 %	95.354 %	65.868 ppb	64.393 ppb
Concentration per Run 1	72.324 ppb	104.645 %	93.068 %	66.827 ppb	66.204 ppb
Concentration per Run 2	67.699 ppb	108.615 %	96.158 %	65.538 ppb	63.632 ppb
Concentration per Run 3	68.562 ppb	108.143 %	96.837 %	65.238 ppb	63.344 ppb
Recovery Percentage 1	115.881 %			109.779 %	107.322 %
Concentration RSD	3.5 %	2.0 %	2.1 %	1.3 %	2.4 %

Alpha ICPMSQ Data with SRD

3/6/2024 5:52:11 AM

Analysis index:	86	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	CCB	Rack	0		
Analysis started at:	3/6/2024 12:25:52 AM	Vial	10		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	97.422 %	146.347 %	0.006 ppb	-8.430 ppb	-1.065 ppb	0.179 ppb	1.953 ppb	1.371 ppb	119.700 %
Concentration per Run 1	99.788 %	146.532 %	0.007 ppb	-9.262 ppb	-1.255 ppb	0.594 ppb	4.015 ppb	-0.935 ppb	122.218 %
Concentration per Run 2	96.732 %	147.087 %	0.008 ppb	-8.897 ppb	-0.874 ppb	-0.027 ppb	3.650 ppb	6.245 ppb	118.526 %
Concentration per Run 3	95.744 %	145.421 %	0.003 ppb	-7.130 ppb	-1.066 ppb	-0.028 ppb	-1.806 ppb	-1.197 ppb	118.357 %
Recovery Percentage 1			1.161 %	-8.430 %	-1.521 %	1.795 %	1.953 %	1.371 %	
Concentration RSD	2.2 %	0.6 %	45.3 %	13.5 %	17.9 %	199.9 %	167.0 %	308.0 %	1.8 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.007 ppb	0.010 ppb	0.019 ppb	13.931 ppb	0.007 ppb	0.012 ppb	-0.047 ppb	0.175 ppb	122.863 %
Concentration per Run 1	-0.002 ppb	0.007 ppb	0.034 ppb	14.816 ppb	0.005 ppb	0.058 ppb	-0.044 ppb	0.175 ppb	115.988 %
Concentration per Run 2	0.018 ppb	0.006 ppb	-0.019 ppb	13.562 ppb	0.008 ppb	-0.025 ppb	-0.063 ppb	0.159 ppb	124.272 %
Concentration per Run 3	0.005 ppb	0.016 ppb	0.041 ppb	13.415 ppb	0.008 ppb	0.003 ppb	-0.034 ppb	0.191 ppb	128.329 %
Recovery Percentage 1	0.140 %	0.957 %	1.898 %	27.862 %	1.342 %	0.601 %	-4.695 %	3.497 %	
Concentration RSD	145.7 %	57.3 %	173.2 %	5.5 %	26.4 %	352.3 %	31.4 %	9.2 %	5.1 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.006 ppb	0.340 ppb	0.003 ppb	0.956 ppb	85.478 %	0.004 ppb	0.006 ppb	82.128 %	0.359 ppb
Concentration per Run 1	-0.010 ppb	0.239 ppb	0.001 ppb	0.976 ppb	83.010 %	0.003 ppb	0.009 ppb	77.570 %	0.375 ppb
Concentration per Run 2	0.072 ppb	0.408 ppb	0.006 ppb	1.012 ppb	86.511 %	0.002 ppb	0.007 ppb	86.214 %	0.330 ppb
Concentration per Run 3	-0.045 ppb	0.374 ppb	0.003 ppb	0.881 ppb	86.912 %	0.006 ppb	0.002 ppb	82.601 %	0.371 ppb
Recovery Percentage 1	1.193 %	6.803 %	0.035 %	47.810 %		0.911 %	2.849 %		8.974 %
Concentration RSD	1,002.8 %	26.2 %	60.2 %	7.1 %	2.5 %	54.5 %	64.5 %	5.3 %	7.0 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	-0.094 ppb	103.803 %	92.520 %	0.163 ppb	0.027 ppb
Concentration per Run 1	-0.088 ppb	99.849 %	87.643 %	0.178 ppb	0.036 ppb
Concentration per Run 2	-0.084 ppb	103.393 %	94.447 %	0.182 ppb	0.026 ppb
Concentration per Run 3	-0.110 ppb	108.167 %	95.472 %	0.128 ppb	0.019 ppb
Recovery Percentage 1	-18.827 %			16.264 %	2.678 %
Concentration RSD	14.9 %	4.0 %	4.6 %	18.5 %	31.6 %

Alpha ICPMSQ Data with SRD

3/6/2024 5:52:11 AM

Analysis index:	87	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	I2404144-13D2 A2-6020T	Rack	3		
Analysis started at:	3/6/2024 12:30:35 AM	Vial	25		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	93.528 %	147.827 %	0.032 ppb	63,354.929 ppb	6,881.784 ppb	370.501 ppb	20,297.290 ppb	6,186.954 ppb	127.488 %
Concentration per Run 1	94.440 %	132.933 %	0.044 ppb	66,458.082 ppb	7,244.946 ppb	398.764 ppb	20,515.883 ppb	6,488.339 ppb	128.107 %
Concentration per Run 2	92.913 %	151.250 %	0.029 ppb	62,806.746 ppb	6,705.332 ppb	353.382 ppb	20,948.878 ppb	6,311.736 ppb	126.607 %
Concentration per Run 3	93.230 %	159.298 %	0.021 ppb	60,799.959 ppb	6,695.073 ppb	359.357 ppb	19,427.107 ppb	5,760.788 ppb	127.750 %
Concentration RSD	0.9 %	9.1 %	37.9 %	4.5 %	4.6 %	6.7 %	3.9 %	6.1 %	0.6 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	2.733 ppb	4.691 ppb	19.005 ppb	1,157.261 ppb	1.870 ppb	7.497 ppb	21.668 ppb	138.168 ppb	120.215 %
Concentration per Run 1	2.257 ppb	4.859 ppb	19.346 ppb	1,226.265 ppb	1.986 ppb	7.894 ppb	22.724 ppb	141.775 ppb	117.911 %
Concentration per Run 2	3.319 ppb	4.548 ppb	18.409 ppb	1,122.066 ppb	1.733 ppb	7.496 ppb	21.512 ppb	138.040 ppb	119.653 %
Concentration per Run 3	2.623 ppb	4.666 ppb	19.258 ppb	1,123.453 ppb	1.891 ppb	7.102 ppb	20.768 ppb	134.690 ppb	123.081 %
Concentration RSD	19.7 %	3.3 %	2.7 %	5.2 %	6.8 %	5.3 %	4.6 %	2.6 %	2.2 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	42.351 ppb	3.208 ppb	122.701 ppb	11.032 ppb	82.400 %	0.639 ppb	0.312 ppb	78.476 %	1.082 ppb
Concentration per Run 1	43.922 ppb	3.385 ppb	126.519 ppb	11.513 ppb	82.707 %	0.649 ppb	0.315 ppb	78.134 %	1.124 ppb
Concentration per Run 2	42.305 ppb	2.845 ppb	115.252 ppb	10.803 ppb	82.601 %	0.650 ppb	0.359 ppb	78.943 %	1.039 ppb
Concentration per Run 3	40.826 ppb	3.393 ppb	126.333 ppb	10.781 ppb	81.892 %	0.618 ppb	0.262 ppb	78.352 %	1.084 ppb
Concentration RSD	3.7 %	9.8 %	5.3 %	3.8 %	0.5 %	2.8 %	15.5 %	0.5 %	3.9 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	5.731 ppb	107.904 %	95.777 %	0.065 ppb	13.801 ppb
Concentration per Run 1	6.164 ppb	105.918 %	93.487 %	0.053 ppb	13.953 ppb
Concentration per Run 2	5.645 ppb	109.061 %	99.683 %	0.079 ppb	13.305 ppb
Concentration per Run 3	5.385 ppb	108.733 %	94.161 %	0.062 ppb	14.144 ppb
Concentration RSD	6.9 %	1.6 %	3.5 %	19.7 %	3.2 %

Alpha ICPMSQ Data with SRD

3/6/2024 5:52:11 AM

Analysis index:	88	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	I2404144-14D2 A2-6020T	Rack	3		
Analysis started at:	3/6/2024 12:35:15 AM	Vial	26		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	94.658 %	140.981 %	0.039 ppb	52,239.382 ppb	6,334.968 ppb	515.960 ppb	20,220.157 ppb	5,743.765 ppb	122.705 %
Concentration per Run 1	95.951 %	149.862 %	0.041 ppb	49,173.445 ppb	6,040.043 ppb	485.014 ppb	19,618.078 ppb	5,410.256 ppb	124.157 %
Concentration per Run 2	95.761 %	136.818 %	0.041 ppb	54,182.613 ppb	6,548.243 ppb	520.584 ppb	20,451.844 ppb	5,794.770 ppb	123.313 %
Concentration per Run 3	92.261 %	136.263 %	0.035 ppb	53,362.089 ppb	6,416.618 ppb	542.280 ppb	20,590.550 ppb	6,026.268 ppb	120.646 %
Concentration RSD	2.2 %	5.5 %	7.9 %	5.1 %	4.2 %	5.6 %	2.6 %	5.4 %	1.5 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	2.443 ppb	12.394 ppb	20.396 ppb	1,411.478 ppb	1.985 ppb	12.386 ppb	25.860 ppb	136.557 ppb	119.498 %
Concentration per Run 1	2.464 ppb	12.081 ppb	19.832 ppb	1,353.172 ppb	1.892 ppb	12.038 ppb	25.279 ppb	135.048 ppb	120.956 %
Concentration per Run 2	2.457 ppb	12.851 ppb	21.248 ppb	1,440.900 ppb	2.093 ppb	12.031 ppb	26.813 ppb	138.528 ppb	118.318 %
Concentration per Run 3	2.407 ppb	12.248 ppb	20.108 ppb	1,440.363 ppb	1.968 ppb	13.090 ppb	25.487 ppb	136.097 ppb	119.221 %
Concentration RSD	1.3 %	3.3 %	3.7 %	3.6 %	5.1 %	4.9 %	3.2 %	1.3 %	1.1 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	42.992 ppb	3.079 ppb	109.601 ppb	12.529 ppb	83.387 %	0.451 ppb	0.269 ppb	83.122 %	0.363 ppb
Concentration per Run 1	42.063 ppb	3.145 ppb	109.717 ppb	12.859 ppb	81.531 %	0.469 ppb	0.267 ppb	81.410 %	0.390 ppb
Concentration per Run 2	43.852 ppb	3.067 ppb	110.258 ppb	12.600 ppb	83.250 %	0.448 ppb	0.251 ppb	84.787 %	0.327 ppb
Concentration per Run 3	43.062 ppb	3.024 ppb	108.829 ppb	12.130 ppb	85.381 %	0.435 ppb	0.291 ppb	83.169 %	0.371 ppb
Concentration RSD	2.1 %	2.0 %	0.7 %	2.9 %	2.3 %	3.7 %	7.4 %	2.0 %	9.0 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	6.239 ppb	108.327 %	98.589 %	0.017 ppb	13.158 ppb
Concentration per Run 1	6.150 ppb	107.927 %	96.197 %	0.007 ppb	13.462 ppb
Concentration per Run 2	6.623 ppb	107.853 %	96.449 %	0.025 ppb	13.415 ppb
Concentration per Run 3	5.943 ppb	109.201 %	103.119 %	0.019 ppb	12.598 ppb
Concentration RSD	5.6 %	0.7 %	4.0 %	52.3 %	3.7 %

Alpha ICPMSQ Data with SRD

3/6/2024 5:52:11 AM

Analysis index:	89	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	I2404144-15D2 A2-6020T	Rack	3		
Analysis started at:	3/6/2024 12:39:55 AM	Vial	27		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	95.813 %	146.439 %	0.050 ppb	62,168.716 ppb	7,466.026 ppb	648.423 ppb	22,801.297 ppb	7,327.656 ppb	124.475 %
Concentration per Run 1	97.302 %	142.369 %	0.047 ppb	64,342.889 ppb	7,740.304 ppb	666.061 ppb	23,329.343 ppb	7,556.937 ppb	124.914 %
Concentration per Run 2	94.587 %	150.695 %	0.054 ppb	59,978.577 ppb	7,170.827 ppb	644.086 ppb	22,689.591 ppb	7,231.831 ppb	123.594 %
Concentration per Run 3	95.552 %	146.254 %	0.050 ppb	62,184.682 ppb	7,486.947 ppb	635.123 ppb	22,384.956 ppb	7,194.200 ppb	124.917 %
Concentration RSD	1.4 %	2.8 %	7.2 %	3.5 %	3.8 %	2.5 %	2.1 %	2.7 %	0.6 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	2.924 ppb	7.188 ppb	27.754 ppb	1,570.245 ppb	2.201 ppb	8.960 ppb	24.826 ppb	168.300 ppb	121.432 %
Concentration per Run 1	3.346 ppb	7.394 ppb	28.576 ppb	1,569.571 ppb	2.301 ppb	9.697 ppb	25.705 ppb	174.023 ppb	118.957 %
Concentration per Run 2	2.705 ppb	7.005 ppb	28.106 ppb	1,566.384 ppb	2.135 ppb	8.633 ppb	24.447 ppb	166.933 ppb	120.310 %
Concentration per Run 3	2.719 ppb	7.166 ppb	26.581 ppb	1,574.780 ppb	2.169 ppb	8.549 ppb	24.325 ppb	163.944 ppb	125.029 %
Concentration RSD	12.5 %	2.7 %	3.8 %	0.3 %	4.0 %	7.1 %	3.1 %	3.1 %	2.6 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	43.361 ppb	3.880 ppb	128.075 ppb	12.086 ppb	84.505 %	0.461 ppb	0.371 ppb	80.242 %	0.431 ppb
Concentration per Run 1	45.107 ppb	3.876 ppb	130.204 ppb	12.467 ppb	84.453 %	0.468 ppb	0.383 ppb	79.673 %	0.438 ppb
Concentration per Run 2	43.682 ppb	4.065 ppb	127.312 ppb	12.327 ppb	84.585 %	0.455 ppb	0.394 ppb	79.133 %	0.408 ppb
Concentration per Run 3	41.294 ppb	3.698 ppb	126.710 ppb	11.464 ppb	84.477 %	0.462 ppb	0.336 ppb	81.921 %	0.446 ppb
Concentration RSD	4.4 %	4.7 %	1.5 %	4.5 %	0.1 %	1.4 %	8.4 %	1.8 %	4.7 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	8.098 ppb	109.655 %	98.300 %	0.026 ppb	16.872 ppb
Concentration per Run 1	7.730 ppb	109.015 %	97.401 %	0.017 ppb	17.156 ppb
Concentration per Run 2	8.676 ppb	111.065 %	98.758 %	0.028 ppb	16.915 ppb
Concentration per Run 3	7.887 ppb	108.886 %	98.740 %	0.033 ppb	16.544 ppb
Concentration RSD	6.3 %	1.1 %	0.8 %	32.6 %	1.8 %

Alpha ICPMSQ Data with SRD

3/6/2024 5:52:11 AM

Analysis index:	90	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	I2404144-16D2 A2-6020T	Rack	3		
Analysis started at:	3/6/2024 12:44:35 AM	Vial	28		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	94.898 %	144.126 %	0.052 ppb	47,647.045 ppb	6,288.952 ppb	1,024.518 ppb	22,865.333 ppb	8,600.568 ppb	124.931 %
Concentration per Run 1	97.234 %	144.034 %	0.040 ppb	48,110.352 ppb	6,274.312 ppb	1,039.701 ppb	23,439.356 ppb	8,556.163 ppb	126.475 %
Concentration per Run 2	95.285 %	149.584 %	0.061 ppb	46,090.655 ppb	6,135.869 ppb	990.093 ppb	21,617.965 ppb	8,427.937 ppb	125.189 %
Concentration per Run 3	92.177 %	138.761 %	0.055 ppb	48,740.127 ppb	6,456.673 ppb	1,043.760 ppb	23,538.679 ppb	8,817.602 ppb	123.130 %
Concentration RSD	2.7 %	3.8 %	21.2 %	2.9 %	2.6 %	2.9 %	4.7 %	2.3 %	1.4 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	3.997 ppb	7.984 ppb	30.526 ppb	2,560.442 ppb	2.386 ppb	8.323 ppb	34.229 ppb	146.543 ppb	118.762 %
Concentration per Run 1	4.024 ppb	7.961 ppb	29.972 ppb	2,592.304 ppb	2.437 ppb	8.488 ppb	34.054 ppb	148.688 ppb	118.575 %
Concentration per Run 2	3.834 ppb	7.750 ppb	28.836 ppb	2,488.238 ppb	2.342 ppb	8.159 ppb	34.500 ppb	145.237 ppb	118.235 %
Concentration per Run 3	4.133 ppb	8.241 ppb	32.770 ppb	2,600.785 ppb	2.378 ppb	8.322 ppb	34.132 ppb	145.704 ppb	119.477 %
Concentration RSD	3.8 %	3.1 %	6.6 %	2.4 %	2.0 %	2.0 %	0.7 %	1.3 %	0.5 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	46.474 ppb	3.280 ppb	129.771 ppb	12.917 ppb	82.452 %	0.675 ppb	0.391 ppb	80.642 %	0.250 ppb
Concentration per Run 1	46.669 ppb	3.298 ppb	130.247 ppb	13.592 ppb	82.129 %	0.636 ppb	0.407 ppb	78.442 %	0.205 ppb
Concentration per Run 2	46.063 ppb	3.323 ppb	128.133 ppb	12.546 ppb	83.157 %	0.703 ppb	0.377 ppb	81.430 %	0.271 ppb
Concentration per Run 3	46.689 ppb	3.221 ppb	130.933 ppb	12.612 ppb	82.069 %	0.686 ppb	0.388 ppb	82.055 %	0.273 ppb
Concentration RSD	0.8 %	1.6 %	1.1 %	4.5 %	0.7 %	5.2 %	3.9 %	2.4 %	15.5 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	8.848 ppb	108.898 %	97.892 %	0.015 ppb	21.924 ppb
Concentration per Run 1	8.963 ppb	106.839 %	96.398 %	0.008 ppb	22.096 ppb
Concentration per Run 2	8.537 ppb	112.235 %	99.837 %	0.014 ppb	21.283 ppb
Concentration per Run 3	9.044 ppb	107.619 %	97.441 %	0.022 ppb	22.394 ppb
Concentration RSD	3.1 %	2.7 %	1.8 %	47.1 %	2.6 %

Alpha ICPMSQ Data with SRD

3/6/2024 5:52:11 AM

Analysis index:	91	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	I2404144-17D2 A2-6020T	Rack	3		
Analysis started at:	3/6/2024 12:49:16 AM	Vial	29		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	95.474 %	144.959 %	0.038 ppb	47,711.061 ppb	5,762.107 ppb	546.871 ppb	15,541.718 ppb	9,489.107 ppb	120.256 %
Concentration per Run 1	96.751 %	147.642 %	0.041 ppb	47,604.896 ppb	5,741.337 ppb	541.687 ppb	15,945.142 ppb	9,757.403 ppb	120.324 %
Concentration per Run 2	96.580 %	142.369 %	0.037 ppb	47,822.453 ppb	5,757.028 ppb	560.991 ppb	15,519.222 ppb	9,234.438 ppb	121.698 %
Concentration per Run 3	93.092 %	144.866 %	0.034 ppb	47,705.835 ppb	5,787.956 ppb	537.936 ppb	15,160.790 ppb	9,475.479 ppb	118.747 %
Concentration RSD	2.2 %	1.8 %	9.1 %	0.2 %	0.4 %	2.3 %	2.5 %	2.8 %	1.2 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	2.584 ppb	3.057 ppb	22.626 ppb	1,652.505 ppb	1.457 ppb	5.048 ppb	23.167 ppb	113.195 ppb	120.727 %
Concentration per Run 1	2.583 ppb	3.159 ppb	22.574 ppb	1,656.601 ppb	1.511 ppb	5.327 ppb	23.897 ppb	115.525 ppb	119.229 %
Concentration per Run 2	2.622 ppb	2.916 ppb	22.803 ppb	1,663.731 ppb	1.429 ppb	4.603 ppb	22.655 ppb	112.279 ppb	120.582 %
Concentration per Run 3	2.547 ppb	3.096 ppb	22.501 ppb	1,637.183 ppb	1.432 ppb	5.215 ppb	22.950 ppb	111.780 ppb	122.369 %
Concentration RSD	1.5 %	4.1 %	0.7 %	0.8 %	3.2 %	7.7 %	2.8 %	1.8 %	1.3 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	28.055 ppb	3.058 ppb	138.176 ppb	9.127 ppb	84.106 %	0.364 ppb	0.286 ppb	82.567 %	0.191 ppb
Concentration per Run 1	28.830 ppb	3.185 ppb	139.714 ppb	9.338 ppb	83.419 %	0.365 ppb	0.287 ppb	82.849 %	0.200 ppb
Concentration per Run 2	28.036 ppb	2.962 ppb	139.477 ppb	9.093 ppb	83.002 %	0.356 ppb	0.268 ppb	81.699 %	0.184 ppb
Concentration per Run 3	27.300 ppb	3.028 ppb	135.338 ppb	8.949 ppb	85.898 %	0.372 ppb	0.302 ppb	83.153 %	0.187 ppb
Concentration RSD	2.7 %	3.7 %	1.8 %	2.2 %	1.9 %	2.2 %	6.0 %	0.9 %	4.5 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	5.781 ppb	108.538 %	97.276 %	-0.003 ppb	9.530 ppb
Concentration per Run 1	5.769 ppb	107.465 %	95.344 %	-0.011 ppb	9.768 ppb
Concentration per Run 2	5.619 ppb	110.366 %	99.486 %	0.001 ppb	9.261 ppb
Concentration per Run 3	5.956 ppb	107.783 %	97.000 %	0.002 ppb	9.561 ppb
Concentration RSD	2.9 %	1.5 %	2.1 %	274.8 %	2.7 %

Alpha ICPMSQ Data with SRD

3/6/2024 5:52:11 AM

Analysis index:	92	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	I2404144-18D2 A2-6020T	Rack	3		
Analysis started at:	3/6/2024 12:53:56 AM	Vial	30		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	95.590 %	137.003 %	0.028 ppb	70,089.471 ppb	8,065.175 ppb	433.132 ppb	22,200.757 ppb	7,654.996 ppb	115.208 %
Concentration per Run 1	97.155 %	133.210 %	0.020 ppb	69,503.323 ppb	8,114.081 ppb	445.311 ppb	21,711.150 ppb	7,451.133 ppb	115.827 %
Concentration per Run 2	94.559 %	151.527 %	0.034 ppb	66,521.207 ppb	7,598.996 ppb	416.567 ppb	21,565.340 ppb	7,623.141 ppb	114.929 %
Concentration per Run 3	95.056 %	126.272 %	0.031 ppb	74,243.884 ppb	8,482.448 ppb	437.517 ppb	23,325.782 ppb	7,890.713 ppb	114.868 %
Concentration RSD	1.4 %	9.5 %	27.4 %	5.6 %	5.5 %	3.4 %	4.4 %	2.9 %	0.5 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	2.411 ppb	5.428 ppb	22.819 ppb	1,287.054 ppb	1.786 ppb	7.408 ppb	25.400 ppb	159.757 ppb	119.527 %
Concentration per Run 1	2.382 ppb	5.368 ppb	22.037 ppb	1,273.723 ppb	1.738 ppb	7.572 ppb	24.992 ppb	159.229 ppb	120.998 %
Concentration per Run 2	2.348 ppb	5.387 ppb	23.331 ppb	1,302.261 ppb	1.803 ppb	7.322 ppb	25.753 ppb	161.297 ppb	116.704 %
Concentration per Run 3	2.502 ppb	5.528 ppb	23.089 ppb	1,285.179 ppb	1.817 ppb	7.330 ppb	25.455 ppb	158.745 ppb	120.878 %
Concentration RSD	3.4 %	1.6 %	3.0 %	1.1 %	2.4 %	1.9 %	1.5 %	0.8 %	2.0 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	36.739 ppb	3.437 ppb	137.132 ppb	11.925 ppb	81.932 %	0.521 ppb	0.408 ppb	78.685 %	0.278 ppb
Concentration per Run 1	36.729 ppb	3.013 ppb	134.704 ppb	12.101 ppb	82.017 %	0.513 ppb	0.404 ppb	78.325 %	0.245 ppb
Concentration per Run 2	38.307 ppb	3.948 ppb	140.062 ppb	11.906 ppb	80.988 %	0.536 ppb	0.391 ppb	79.084 %	0.298 ppb
Concentration per Run 3	35.181 ppb	3.349 ppb	136.631 ppb	11.767 ppb	82.790 %	0.514 ppb	0.430 ppb	78.646 %	0.291 ppb
Concentration RSD	4.3 %	13.8 %	2.0 %	1.4 %	1.1 %	2.5 %	4.9 %	0.5 %	10.4 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	6.939 ppb	106.004 %	93.778 %	-0.004 ppb	9.827 ppb
Concentration per Run 1	7.303 ppb	105.804 %	93.609 %	-0.011 ppb	9.828 ppb
Concentration per Run 2	7.062 ppb	106.422 %	93.246 %	0.003 ppb	9.922 ppb
Concentration per Run 3	6.451 ppb	105.785 %	94.480 %	-0.003 ppb	9.730 ppb
Concentration RSD	6.3 %	0.3 %	0.7 %	198.9 %	1.0 %

Alpha ICPMSQ Data with SRD

3/6/2024 5:52:11 AM

Analysis index: 93
Analysis label: I2404144-19D2 A2-6020T
Analysis started at: 3/6/2024 12:58:36 AM
User name ALPHALAB\Metals-Instrument
Rack 3
Vial 31
Comment <Comment>

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	97.020 %	146.347 %	0.043 ppb	64,072.613 ppb	6,943.986 ppb	604.008 ppb	20,008.070 ppb	6,159.014 ppb	128.498 %
Concentration per Run 1	98.905 %	139.871 %	0.032 ppb	66,452.041 ppb	7,120.736 ppb	630.582 ppb	20,742.536 ppb	6,427.300 ppb	129.815 %
Concentration per Run 2	96.813 %	144.589 %	0.050 ppb	63,886.951 ppb	7,009.297 ppb	590.558 ppb	20,304.533 ppb	6,047.489 ppb	128.847 %
Concentration per Run 3	95.343 %	154.580 %	0.048 ppb	61,878.847 ppb	6,701.925 ppb	590.885 ppb	18,977.141 ppb	6,002.253 ppb	126.832 %
Concentration RSD	1.8 %	5.1 %	22.1 %	3.6 %	3.1 %	3.8 %	4.6 %	3.8 %	1.2 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	3.102 ppb	5.715 ppb	25.627 ppb	1,756.200 ppb	1.641 ppb	7.498 ppb	23.318 ppb	135.866 ppb	126.331 %
Concentration per Run 1	3.288 ppb	6.118 ppb	25.881 ppb	1,792.699 ppb	1.716 ppb	7.893 ppb	24.245 ppb	142.330 ppb	123.245 %
Concentration per Run 2	2.877 ppb	5.412 ppb	25.560 ppb	1,722.299 ppb	1.611 ppb	7.548 ppb	23.061 ppb	132.012 ppb	128.983 %
Concentration per Run 3	3.143 ppb	5.614 ppb	25.441 ppb	1,753.602 ppb	1.594 ppb	7.054 ppb	22.650 ppb	133.257 ppb	126.764 %
Concentration RSD	6.7 %	6.4 %	0.9 %	2.0 %	4.0 %	5.6 %	3.6 %	4.1 %	2.3 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	39.319 ppb	2.778 ppb	122.147 ppb	10.671 ppb	86.260 %	0.352 ppb	0.291 ppb	84.943 %	0.194 ppb
Concentration per Run 1	40.466 ppb	2.230 ppb	123.685 ppb	10.652 ppb	85.266 %	0.364 ppb	0.288 ppb	83.607 %	0.186 ppb
Concentration per Run 2	38.257 ppb	2.551 ppb	120.645 ppb	10.682 ppb	86.710 %	0.364 ppb	0.295 ppb	86.423 %	0.173 ppb
Concentration per Run 3	39.234 ppb	3.554 ppb	122.110 ppb	10.680 ppb	86.804 %	0.328 ppb	0.289 ppb	84.798 %	0.223 ppb
Concentration RSD	2.8 %	24.9 %	1.2 %	0.2 %	1.0 %	5.9 %	1.3 %	1.7 %	13.3 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	6.107 ppb	110.903 %	100.540 %	-0.006 ppb	14.948 ppb
Concentration per Run 1	6.094 ppb	110.410 %	98.709 %	-0.013 ppb	15.383 ppb
Concentration per Run 2	6.106 ppb	110.580 %	100.867 %	-0.003 ppb	14.948 ppb
Concentration per Run 3	6.121 ppb	111.720 %	102.044 %	-0.002 ppb	14.512 ppb
Concentration RSD	0.2 %	0.6 %	1.7 %	106.8 %	2.9 %

Alpha ICPMSQ Data with SRD

3/6/2024 5:52:11 AM

Analysis index: 94
Analysis label: I2404144-20D2 A2-6020T
Analysis started at: 3/6/2024 1:03:17 AM

User name ALPHALAB\Metals-Instrument
Rack 3
Vial 32

Comment <Comment>

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	96.399 %	145.514 %	0.045 ppb	49,021.692 ppb	5,951.625 ppb	679.665 ppb	20,088.647 ppb	5,892.578 ppb	123.174 %
Concentration per Run 1	97.165 %	143.201 %	0.048 ppb	50,008.939 ppb	6,121.926 ppb	686.350 ppb	20,486.120 ppb	6,068.519 ppb	122.332 %
Concentration per Run 2	96.144 %	150.139 %	0.041 ppb	47,899.726 ppb	5,800.027 ppb	650.747 ppb	19,801.824 ppb	5,693.231 ppb	123.916 %
Concentration per Run 3	95.889 %	143.201 %	0.046 ppb	49,156.410 ppb	5,932.920 ppb	701.899 ppb	19,977.997 ppb	5,915.985 ppb	123.274 %
Concentration RSD	0.7 %	2.8 %	8.7 %	2.2 %	2.7 %	3.9 %	1.8 %	3.2 %	0.6 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	3.119 ppb	4.229 ppb	32.281 ppb	2,068.581 ppb	1.916 ppb	6.587 ppb	40.960 ppb	164.046 ppb	123.298 %
Concentration per Run 1	3.203 ppb	4.340 ppb	33.474 ppb	2,080.122 ppb	1.906 ppb	6.817 ppb	41.175 ppb	167.857 ppb	122.077 %
Concentration per Run 2	3.096 ppb	4.127 ppb	32.482 ppb	2,027.943 ppb	1.953 ppb	6.249 ppb	40.525 ppb	160.106 ppb	126.111 %
Concentration per Run 3	3.057 ppb	4.220 ppb	30.888 ppb	2,097.677 ppb	1.888 ppb	6.695 ppb	41.179 ppb	164.175 ppb	121.705 %
Concentration RSD	2.4 %	2.5 %	4.0 %	1.8 %	1.8 %	4.5 %	0.9 %	2.4 %	2.0 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	43.556 ppb	3.845 ppb	109.556 ppb	13.125 ppb	85.759 %	0.833 ppb	0.392 ppb	82.017 %	0.266 ppb
Concentration per Run 1	44.592 ppb	4.313 ppb	112.165 ppb	13.133 ppb	82.673 %	0.860 ppb	0.420 ppb	81.985 %	0.261 ppb
Concentration per Run 2	42.305 ppb	3.793 ppb	107.799 ppb	13.201 ppb	86.514 %	0.834 ppb	0.378 ppb	80.401 %	0.273 ppb
Concentration per Run 3	43.771 ppb	3.430 ppb	108.704 ppb	13.042 ppb	88.090 %	0.805 ppb	0.379 ppb	83.665 %	0.264 ppb
Concentration RSD	2.7 %	11.5 %	2.1 %	0.6 %	3.2 %	3.3 %	6.1 %	2.0 %	2.2 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	8.627 ppb	110.165 %	99.576 %	-0.002 ppb	14.953 ppb
Concentration per Run 1	9.077 ppb	109.405 %	96.417 %	-0.010 ppb	15.485 ppb
Concentration per Run 2	8.493 ppb	109.276 %	98.865 %	0.005 ppb	14.936 ppb
Concentration per Run 3	8.312 ppb	111.815 %	103.446 %	-0.002 ppb	14.439 ppb
Concentration RSD	4.6 %	1.3 %	3.6 %	339.9 %	3.5 %

Alpha ICPMSQ Data with SRD

3/6/2024 5:52:11 AM

Analysis index:	95	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	WG1892149-8d10 A2-6020T	Rack	3		
Analysis started at:	3/6/2024 1:07:57 AM	Vial	33		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	101.973 %	154.210 %	0.007 ppb	9,122.997 ppb	519.269 ppb	4.944 ppb	6,206.007 ppb	1,018.873 ppb	110.774 %
Concentration per Run 1	103.698 %	164.848 %	0.006 ppb	8,745.225 ppb	489.748 ppb	5.890 ppb	6,036.427 ppb	960.130 ppb	109.499 %
Concentration per Run 2	102.697 %	144.311 %	0.006 ppb	9,523.993 ppb	546.065 ppb	4.767 ppb	6,579.452 ppb	1,048.796 ppb	111.913 %
Concentration per Run 3	99.524 %	153.470 %	0.008 ppb	9,099.771 ppb	521.993 ppb	4.173 ppb	6,002.141 ppb	1,047.692 ppb	110.911 %
Concentration RSD	2.1 %	6.7 %	18.9 %	4.3 %	5.4 %	17.6 %	5.2 %	5.0 %	1.1 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	3.658 ppb	0.554 ppb	7.250 ppb	81.841 ppb	0.532 ppb	2.403 ppb	225.897 ppb	60.749 ppb	129.007 %
Concentration per Run 1	3.631 ppb	0.483 ppb	7.090 ppb	78.692 ppb	0.551 ppb	2.449 ppb	226.664 ppb	61.243 ppb	127.240 %
Concentration per Run 2	3.569 ppb	0.568 ppb	7.731 ppb	79.059 ppb	0.529 ppb	2.486 ppb	229.506 ppb	61.136 ppb	130.108 %
Concentration per Run 3	3.774 ppb	0.610 ppb	6.928 ppb	87.772 ppb	0.517 ppb	2.276 ppb	221.520 ppb	59.866 ppb	129.674 %
Concentration RSD	2.9 %	11.7 %	5.9 %	6.3 %	3.2 %	4.7 %	1.8 %	1.3 %	1.2 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	28.377 ppb	4.719 ppb	14.858 ppb	1.484 ppb	92.031 %	4.221 ppb	17.614 ppb	88.550 %	0.034 ppb
Concentration per Run 1	28.910 ppb	4.845 ppb	15.043 ppb	1.422 ppb	91.306 %	4.328 ppb	18.036 ppb	87.287 %	0.050 ppb
Concentration per Run 2	28.415 ppb	5.050 ppb	14.722 ppb	1.647 ppb	91.793 %	4.165 ppb	17.366 ppb	88.813 %	0.033 ppb
Concentration per Run 3	27.805 ppb	4.262 ppb	14.810 ppb	1.382 ppb	92.993 %	4.169 ppb	17.440 ppb	89.549 %	0.019 ppb
Concentration RSD	2.0 %	8.7 %	1.1 %	9.6 %	0.9 %	2.2 %	2.1 %	1.3 %	45.0 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	0.071 ppb	111.843 %	100.099 %	-0.026 ppb	0.103 ppb
Concentration per Run 1	0.037 ppb	112.224 %	98.376 %	-0.035 ppb	0.105 ppb
Concentration per Run 2	0.115 ppb	112.305 %	102.085 %	-0.022 ppb	0.101 ppb
Concentration per Run 3	0.060 ppb	110.998 %	99.835 %	-0.020 ppb	0.103 ppb
Concentration RSD	56.6 %	0.7 %	1.9 %	30.9 %	2.1 %

Alpha ICPMSQ Data with SRD

3/6/2024 5:52:11 AM

Analysis index: 96
Analysis label: CCV
Analysis started at: 3/6/2024 1:12:38 AM
User name ALPHALAB\Metals-Instrument
Rack 0
Vial 9
Comment <Comment>

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	97.429 %	150.880 %	60.593 ppb	5,998.313 ppb	5,900.556 ppb	59.947 ppb	5,763.736 ppb	5,465.682 ppb	118.641 %
Concentration per Run 1	99.366 %	159.020 %	60.492 ppb	5,959.360 ppb	5,919.344 ppb	56.579 ppb	5,641.278 ppb	5,413.781 ppb	120.194 %
Concentration per Run 2	96.783 %	152.637 %	60.510 ppb	5,869.781 ppb	5,872.437 ppb	60.517 ppb	5,850.521 ppb	5,387.062 ppb	117.560 %
Concentration per Run 3	96.137 %	140.981 %	60.777 ppb	6,165.797 ppb	5,909.888 ppb	62.744 ppb	5,799.410 ppb	5,596.202 ppb	118.170 %
Recovery Percentage 1			100.989 %	99.972 %	98.343 %	99.911 %	96.062 %	91.095 %	
Concentration RSD	1.8 %	6.1 %	0.3 %	2.5 %	0.4 %	5.2 %	1.9 %	2.1 %	1.2 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	57.621 ppb	57.387 ppb	59.376 ppb	6,036.381 ppb	61.948 ppb	61.867 ppb	62.612 ppb	61.463 ppb	127.009 %
Concentration per Run 1	58.819 ppb	57.452 ppb	58.161 ppb	6,016.501 ppb	63.507 ppb	63.335 ppb	65.603 ppb	62.437 ppb	122.472 %
Concentration per Run 2	56.284 ppb	56.143 ppb	60.654 ppb	6,061.757 ppb	61.168 ppb	60.888 ppb	62.039 ppb	61.478 ppb	127.853 %
Concentration per Run 3	57.761 ppb	58.565 ppb	59.313 ppb	6,030.884 ppb	61.168 ppb	61.379 ppb	60.195 ppb	60.475 ppb	130.702 %
Recovery Percentage 1	96.036 %	95.644 %	98.960 %	100.606 %	103.246 %	103.112 %	104.354 %	102.439 %	
Concentration RSD	2.2 %	2.1 %	2.1 %	0.4 %	2.2 %	2.1 %	4.4 %	1.6 %	3.3 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	61.951 ppb	63.720 ppb	58.470 ppb	56.555 ppb	87.537 %	61.238 ppb	59.713 ppb	84.881 %	61.803 ppb
Concentration per Run 1	64.230 ppb	63.623 ppb	60.134 ppb	56.215 ppb	88.882 %	61.471 ppb	59.280 ppb	84.652 %	62.667 ppb
Concentration per Run 2	61.665 ppb	64.510 ppb	57.946 ppb	56.877 ppb	87.213 %	61.270 ppb	59.556 ppb	86.040 %	61.145 ppb
Concentration per Run 3	59.959 ppb	63.027 ppb	57.329 ppb	56.573 ppb	86.515 %	60.973 ppb	60.303 ppb	83.951 %	61.596 ppb
Recovery Percentage 1	103.252 %	106.201 %	97.449 %	94.258 %		102.063 %	99.521 %		103.004 %
Concentration RSD	3.5 %	1.2 %	2.5 %	0.6 %	1.4 %	0.4 %	0.9 %	1.3 %	1.3 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	69.059 ppb	108.899 %	97.620 %	65.440 ppb	64.230 ppb
Concentration per Run 1	71.258 ppb	108.277 %	97.841 %	64.606 ppb	64.828 ppb
Concentration per Run 2	66.125 ppb	108.736 %	97.218 %	65.370 ppb	64.282 ppb
Concentration per Run 3	69.795 ppb	109.684 %	97.800 %	66.345 ppb	63.579 ppb
Recovery Percentage 1	115.099 %			109.067 %	107.050 %
Concentration RSD	3.8 %	0.7 %	0.4 %	1.3 %	1.0 %

Alpha ICPMSQ Data with SRD

3/6/2024 5:52:11 AM

Analysis index: 97
Analysis label: CCB
Analysis started at: 3/6/2024 1:17:20 AM
User name ALPHALAB\Metals-Instrument
Rack 0
Vial 10
Comment <Comment>

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	96.956 %	145.051 %	0.012 ppb	-8.566 ppb	-0.738 ppb	0.188 ppb	-0.851 ppb	2.646 ppb	110.221 %
Concentration per Run 1	99.850 %	150.694 %	0.011 ppb	-7.631 ppb	-0.689 ppb	0.040 ppb	-7.488 ppb	6.328 ppb	112.090 %
Concentration per Run 2	96.412 %	144.034 %	0.017 ppb	-9.871 ppb	-0.672 ppb	-0.242 ppb	2.906 ppb	-2.387 ppb	109.051 %
Concentration per Run 3	94.607 %	140.426 %	0.008 ppb	-8.195 ppb	-0.853 ppb	0.766 ppb	2.028 ppb	3.998 ppb	109.523 %
Recovery Percentage 1			2.378 %	-8.566 %	-1.054 %	1.879 %	-0.851 %	2.646 %	
Concentration RSD	2.7 %	3.6 %	39.9 %	13.6 %	13.5 %	276.7 %	677.0 %	170.5 %	1.5 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.009 ppb	0.012 ppb	0.023 ppb	13.344 ppb	0.004 ppb	0.009 ppb	-0.043 ppb	0.164 ppb	123.331 %
Concentration per Run 1	0.012 ppb	0.006 ppb	0.032 ppb	16.800 ppb	0.008 ppb	0.018 ppb	-0.030 ppb	0.139 ppb	119.423 %
Concentration per Run 2	0.011 ppb	0.010 ppb	-0.019 ppb	13.807 ppb	0.001 ppb	0.010 ppb	-0.052 ppb	0.171 ppb	126.620 %
Concentration per Run 3	0.005 ppb	0.019 ppb	0.057 ppb	9.426 ppb	0.004 ppb	-0.001 ppb	-0.047 ppb	0.183 ppb	123.950 %
Recovery Percentage 1	0.188 %	1.186 %	2.338 %	26.689 %	0.895 %	0.456 %	-4.295 %	3.285 %	
Concentration RSD	40.7 %	57.7 %	165.4 %	27.8 %	79.1 %	103.8 %	27.1 %	13.6 %	2.9 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.043 ppb	0.259 ppb	0.007 ppb	0.984 ppb	88.009 %	0.002 ppb	0.009 ppb	82.967 %	0.356 ppb
Concentration per Run 1	0.038 ppb	0.193 ppb	0.009 ppb	0.973 ppb	86.475 %	-0.001 ppb	0.007 ppb	84.577 %	0.355 ppb
Concentration per Run 2	0.066 ppb	0.311 ppb	0.005 ppb	0.970 ppb	89.710 %	0.004 ppb	0.012 ppb	82.331 %	0.359 ppb
Concentration per Run 3	0.024 ppb	0.274 ppb	0.007 ppb	1.010 ppb	87.843 %	0.004 ppb	0.010 ppb	81.994 %	0.354 ppb
Recovery Percentage 1	8.535 %	5.180 %	0.071 %	49.219 %		0.588 %	4.723 %		8.898 %
Concentration RSD	50.1 %	23.3 %	31.9 %	2.3 %	1.8 %	122.3 %	27.2 %	1.7 %	0.9 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	-0.091 ppb	106.475 %	94.846 %	0.169 ppb	0.024 ppb
Concentration per Run 1	-0.084 ppb	104.912 %	92.300 %	0.172 ppb	0.030 ppb
Concentration per Run 2	-0.110 ppb	107.310 %	97.047 %	0.187 ppb	0.022 ppb
Concentration per Run 3	-0.078 ppb	107.203 %	95.192 %	0.149 ppb	0.018 ppb
Recovery Percentage 1	-18.124 %			16.948 %	2.354 %
Concentration RSD	19.0 %	1.3 %	2.5 %	11.2 %	27.1 %

Alpha ICPMSQ Data with SRD

3/6/2024 5:52:11 AM

Analysis index:	98	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	CCV	Rack	0		
Analysis started at:	3/6/2024 1:22:03 AM	Vial	9		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	96.285 %	150.047 %	60.108 ppb	5,792.620 ppb	5,740.392 ppb	58.540 ppb	5,647.569 ppb	5,387.717 ppb	126.389 %
Concentration per Run 1	98.449 %	157.355 %	59.889 ppb	5,602.214 ppb	5,660.102 ppb	57.488 ppb	5,369.051 ppb	5,168.397 ppb	127.953 %
Concentration per Run 2	96.640 %	153.192 %	60.122 ppb	5,748.216 ppb	5,563.438 ppb	55.991 ppb	5,819.282 ppb	5,370.159 ppb	126.139 %
Concentration per Run 3	93.767 %	139.593 %	60.312 ppb	6,027.429 ppb	5,997.636 ppb	62.142 ppb	5,754.375 ppb	5,624.596 ppb	125.077 %
Recovery Percentage 1			100.180 %	96.544 %	95.673 %	97.567 %	94.126 %	89.795 %	
Concentration RSD	2.5 %	6.2 %	0.4 %	3.7 %	4.0 %	5.5 %	4.3 %	4.2 %	1.2 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	56.546 ppb	56.491 ppb	57.880 ppb	5,972.743 ppb	60.991 ppb	61.717 ppb	62.942 ppb	61.688 ppb	123.015 %
Concentration per Run 1	54.757 ppb	55.149 ppb	55.347 ppb	5,844.824 ppb	59.968 ppb	60.340 ppb	62.146 ppb	60.888 ppb	125.626 %
Concentration per Run 2	55.865 ppb	55.202 ppb	57.052 ppb	5,851.680 ppb	60.393 ppb	60.962 ppb	62.158 ppb	61.101 ppb	122.846 %
Concentration per Run 3	59.016 ppb	59.121 ppb	61.240 ppb	6,221.724 ppb	62.611 ppb	63.847 ppb	64.521 ppb	63.076 ppb	120.573 %
Recovery Percentage 1	94.243 %	94.151 %	96.466 %	99.546 %	101.651 %	102.861 %	104.903 %	102.814 %	
Concentration RSD	3.9 %	4.0 %	5.2 %	3.6 %	2.3 %	3.0 %	2.2 %	2.0 %	2.1 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	61.614 ppb	64.327 ppb	58.154 ppb	56.272 ppb	86.311 %	60.501 ppb	59.307 ppb	83.825 %	61.090 ppb
Concentration per Run 1	59.901 ppb	61.236 ppb	57.367 ppb	54.598 ppb	87.488 %	59.577 ppb	58.329 ppb	84.499 %	61.057 ppb
Concentration per Run 2	61.121 ppb	66.549 ppb	58.329 ppb	56.851 ppb	86.070 %	61.263 ppb	59.793 ppb	83.636 %	61.686 ppb
Concentration per Run 3	63.820 ppb	65.196 ppb	58.765 ppb	57.368 ppb	85.375 %	60.662 ppb	59.800 ppb	83.341 %	60.526 ppb
Recovery Percentage 1	102.690 %	107.212 %	96.923 %	93.787 %		100.834 %	98.845 %		101.816 %
Concentration RSD	3.3 %	4.3 %	1.2 %	2.6 %	1.2 %	1.4 %	1.4 %	0.7 %	1.0 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	67.586 ppb	107.782 %	97.409 %	64.371 ppb	62.857 ppb
Concentration per Run 1	65.879 ppb	109.826 %	97.779 %	63.414 ppb	63.420 ppb
Concentration per Run 2	69.255 ppb	107.864 %	96.419 %	65.904 ppb	63.595 ppb
Concentration per Run 3	67.623 ppb	105.655 %	98.030 %	63.794 ppb	61.557 ppb
Recovery Percentage 1	112.643 %			107.284 %	104.762 %
Concentration RSD	2.5 %	1.9 %	0.9 %	2.1 %	1.8 %

Alpha ICPMSQ Data with SRD

3/6/2024 5:52:11 AM

Analysis index:	99	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	CCB	Rack	0		
Analysis started at:	3/6/2024 1:26:45 AM	Vial	10		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	96.096 %	141.444 %	0.005 ppb	-10.078 ppb	-0.914 ppb	-0.377 ppb	-1.635 ppb	-0.562 ppb	105.073 %
Concentration per Run 1	96.499 %	140.981 %	0.003 ppb	-9.836 ppb	-1.451 ppb	-0.452 ppb	0.660 ppb	1.568 ppb	102.901 %
Concentration per Run 2	96.505 %	145.699 %	0.012 ppb	-9.635 ppb	-1.062 ppb	-0.315 ppb	2.450 ppb	-3.628 ppb	107.084 %
Concentration per Run 3	95.283 %	137.651 %	0.000 ppb	-10.763 ppb	-0.228 ppb	-0.366 ppb	-8.014 ppb	0.374 ppb	105.233 %
Recovery Percentage 1			1.000 %	-10.078 %	-1.305 %	-3.774 %	-1.635 %	-0.562 %	
Concentration RSD	0.7 %	2.9 %	122.5 %	6.0 %	68.4 %	18.3 %	342.3 %	484.3 %	2.0 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.005 ppb	0.004 ppb	0.037 ppb	13.359 ppb	0.003 ppb	0.025 ppb	-0.046 ppb	0.136 ppb	120.888 %
Concentration per Run 1	-0.009 ppb	-0.009 ppb	0.021 ppb	11.834 ppb	0.003 ppb	0.001 ppb	-0.045 ppb	0.185 ppb	120.226 %
Concentration per Run 2	0.026 ppb	0.013 ppb	0.070 ppb	15.764 ppb	0.004 ppb	0.018 ppb	-0.046 ppb	0.123 ppb	121.771 %
Concentration per Run 3	-0.002 ppb	0.007 ppb	0.021 ppb	12.480 ppb	0.003 ppb	0.056 ppb	-0.045 ppb	0.101 ppb	120.666 %
Recovery Percentage 1	0.100 %	0.368 %	3.701 %	26.719 %	0.673 %	1.249 %	-4.577 %	2.726 %	
Concentration RSD	361.7 %	304.0 %	76.2 %	15.8 %	28.8 %	113.6 %	1.2 %	31.7 %	0.7 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.042 ppb	0.393 ppb	0.009 ppb	1.046 ppb	85.509 %	0.004 ppb	0.005 ppb	82.062 %	0.429 ppb
Concentration per Run 1	0.037 ppb	0.234 ppb	0.010 ppb	1.050 ppb	83.629 %	0.007 ppb	0.005 ppb	81.528 %	0.434 ppb
Concentration per Run 2	0.008 ppb	0.518 ppb	0.013 ppb	1.046 ppb	86.621 %	0.006 ppb	0.002 ppb	82.542 %	0.416 ppb
Concentration per Run 3	0.082 ppb	0.427 ppb	0.005 ppb	1.043 ppb	86.278 %	0.001 ppb	0.007 ppb	82.116 %	0.438 ppb
Recovery Percentage 1	8.415 %	7.867 %	0.092 %	52.317 %		1.118 %	2.263 %		10.736 %
Concentration RSD	88.2 %	36.9 %	42.7 %	0.3 %	1.9 %	67.6 %	57.3 %	0.6 %	2.7 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	-0.105 ppb	103.345 %	92.732 %	0.207 ppb	0.025 ppb
Concentration per Run 1	-0.096 ppb	102.980 %	91.406 %	0.202 ppb	0.027 ppb
Concentration per Run 2	-0.110 ppb	103.220 %	92.134 %	0.243 ppb	0.026 ppb
Concentration per Run 3	-0.110 ppb	103.835 %	94.656 %	0.177 ppb	0.023 ppb
Recovery Percentage 1	-21.046 %			20.720 %	2.509 %
Concentration RSD	7.4 %	0.4 %	1.8 %	15.9 %	8.0 %

Interference Check Solutions
(ICP-MS)

Solution Component	Solution A Concentration (ug/L)	Solution AB Concentration (ug/L)
Al	20,000	20,000
Ca	60,000	60,000
Fe	50,000	50,000
Mg	20,000	20,000
Na	50,000	50,000
K	20,000	20,000
Mo	400	400
As	0.0	20
Cd	0.0	20
Cr	0.0	40
Co	0.0	40
Cu	0.0	40
Mn	0.0	40
Ni	0.0	40
Se	0.0	20
Ag	0.0	10
V	0.0	40
Zn	0.0	20

LCS & MS Concentrations
(ICP-MS)

Element	Liquid Concentration (mg/L)
Aluminum	2.00
Antimony	0.5
Arsenic	0.12
Barium	2.00
Beryllium	0.05
Cadmium	0.051
Calcium	10.0
Chromium	0.20
Cobalt	0.50
Copper	0.25
Iron	1.00
Lead	0.51
Magnesium	10.0
Manganese	0.50
Molybdenum	1.00
Nickel	0.50
Potassium	10.0
Selenium	0.12
Silver	0.05
Sodium	10.0
Thallium	0.12
Vanadium	0.50
Zinc	0.50

▪ Certificate of Analysis ▪

Product: Metals in Soil
Catalog Number: 540
Lot No. D102-540
Certificate Issue Date: June 22, 2018
Expiration Date: January 31, 2022
Revision Number: Original

Product use instructions are included as part of the certification packet and are paginated separately from this Certificate of Analysis. Please reference the product use instructions for catalog #540 revision 030512.

CERTIFICATION

Parameter	Certified Value[1]	Reference Value	Uncertainty[2]	QC Performance Acceptance Limits[3]	PT Performance Acceptance Limits[4]
	mg/kg	mg/kg	%	mg/kg	mg/kg
Aluminum	10100	8160	6.36	3960 - 12400	4080 - 12200
Antimony	120	60.9	9.42	0.822 - 121	12.0 - 166
Arsenic	144	135	5.08	112 - 158	94.6 - 176
Barium	469	443	6.77	366 - 521	332 - 554
Beryllium	207	197	5.86	164 - 229	148 - 246
Boron	213	174	12.6	127 - 221	105 - 244
Cadmium	224	204	6.65	169 - 240	153 - 256
Calcium	5190	4830	9.12	3950 - 5700	3510 - 6150
Chromium	138	132	8.56	109 - 155	92.2 - 171
Cobalt	182	179	7.93	151 - 207	134 - 224
Copper	191	184	6.72	155 - 213	138 - 230
Iron	15000	14400	10.7	8770 - 20000	5120 - 23600
Lead	225	216	7.72	178 - 254	159 - 274
Magnesium	2570	2340	6.13	1780 - 2900	1460 - 3230
Manganese	331	323	6.71	266 - 380	242 - 404
Mercury	16.8	13.2	16.0	8.64 - 17.7	7.89 - 18.5
Molybdenum	193	175	2.39	141 - 209	125 - 226
Nickel	163	152	5.95	126 - 178	106 - 197
Potassium	2420	2050	6.31	1440 - 2660	1210 - 2890
Selenium	81.9	74.9	4.13	59.3 - 90.5	47.0 - 103
Silver	57.6	53.9	9.00	43.0 - 64.8	37.8 - 70.0
Sodium	161	149	12.1	111 - 188	57.7 - 241
Strontium	100	96.2	4.04	78.1 - 114	69.0 - 123
Thallium	253	232	3.54	188 - 276	168 - 296

16341 Table Mountain Pkwy ▪ Golden, CO 80403 ▪ T: 800.372.0122 ▪ 303.431.8454 ▪ www.eraqc.com

Parameter	Certified Value[1]	Reference Value	Uncertainty[2]	QC Performance Acceptance Limits[3]	PT Performance Acceptance Limits[4]
	mg/kg	mg/kg	%	mg/kg	mg/kg
Tin	146	134	10.8	106 - 163	79.5 - 189
Titanium	449	340	7.20	70.2 - 609	44.9 - 711
Uranium	114	113	7.10	85.5 - 140	71.9 - 153
Vanadium	180	172	8.85	137 - 207	126 - 218
Zinc	217	211	6.58	171 - 250	147 - 274

ANALYTICAL VERIFICATION

Parameter	Certified Value[1]	Proficiency Testing Study			NIST Traceability	
		Mean	Recovery[5]	n	SRM Number	Recovery
	mg/kg	mg/kg	%			%
Aluminum	10100	8160	80.8	138	-	-
Antimony	120	60.9	50.8	135	-	-
Arsenic	144	135	93.8	184	-	-
Barium	469	443	94.5	158	-	-
Beryllium	207	197	95.0	148	-	-
Boron	213	174	81.8	107	-	-
Cadmium	224	204	91.3	199	-	-
Calcium	5190	4830	93.0	122	-	-
Chromium	138	132	95.5	172	-	-
Cobalt	182	179	98.4	140	-	-
Copper	191	184	96.3	183	-	-
Iron	15000	14400	95.6	133	-	-
Lead	225	216	96.2	204	-	-
Magnesium	2570	2340	91.2	122	-	-
Manganese	331	323	97.6	147	-	-
Mercury	16.8	13.2	78.3	128	-	-
Molybdenum	193	175	90.8	143	-	-
Nickel	163	152	93.1	185	-	-
Potassium	2420	2050	84.7	121	-	-
Selenium	81.9	74.9	91.5	163	-	-

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▪ Certificate of Analysis ▪

Parameter	Certified Value[1]	Proficiency Testing Study			NIST Traceability	
		Mean	Recovery[5]	n	SRM Number	Recovery
	mg/kg	mg/kg	%			%
Silver	57.6	53.9	93.6	150	-	-
Sodium	161	149	92.8	105	-	-
Strontium	100	96.2	96.2	90	-	-
Thallium	253	232	91.6	147	-	-
Tin	146	134	92.0	100	-	-
Titanium	449	340	75.6	93	-	-
Uranium	114	113	98.8	35	-	-
Vanadium	180	172	95.4	139	-	-
Zinc	217	211	97.0	180	-	-

1. The **Certified Values** are the actual "made-to" concentrations confirmed by ERA analytical verification. The certified values are monitored and purchasers will be notified of any significant changes resulting in recertification or withdrawal of this certified reference material during the period of validity of this certificate.

2. The **Uncertainty** is the total propagated uncertainty at the 95% confidence interval. The uncertainty is based on the preparation and internal analytical verification of the product by ERA, multiplied by a coverage factor. The uncertainty applies to the product as supplied and does not take into account any required or optional dilution and/or preparations the laboratory may perform while using this product.

3. The **QC Performance Acceptance Limits (QC PALs™)**are based on actual historical data collected in ERA's Proficiency Testing program. The QC PALs™ reflect any inherent biases in the methods used to establish the limits and closely approximate a 95% confidence interval of the performance that experienced laboratories should achieve using accepted environmental methods. Use the QC PALs™ to realistically evaluate your performance against your peers.

4. The **PT Performance Acceptance Limits (PT PALs™)** are calculated using the regression equations and fixed acceptance criteria specified in the NELAC proficiency testing requirements. Use the PT PALs™ when analyzing this QC standard alongside USEPA and NELAC compliant PT standards. Please note that many PT study acceptance limits are concentration dependent (some non-linearly) and, therefore, the acceptance limits of this QC standard and any PT standard may differ relative to their difference in concentrations.

5. The **PT Data/Traceability** data include the mean value, percent recovery and number of data points reported by the laboratories in our Proficiency Testing study compared to the Certified Values. In addition, where NIST Standard Reference Materials (SRMs) are available, each analyte has been analytically traced to the NIST SRM listed. This product is traceable to the lot numbers of its starting materials. All gravimetric and volumetric measurements related to its manufacture are traceable to NIST through an unbroken chain of comparisons.
Traceability Recovery (%) = [(% recovery certified standard)/(% recovery NIST SRM)]*100
The traceability data shown were compiled by analyzing the ERA standards or their associated stock solutions against the applicable NIST SRMs.

6. For additional information on this product such as intended use, instructions for use, level of homogeneity, and safety information, please refer to the provided Instruction Sheet

If you have any questions or need technical assistance, please call ERA technical assistance at 1-800-372-0122 or send an email to info@eraqc.com.

Certifying Officer

Brian Miller

Quality Officer

Matthew Seebeck

ISO/IEC GUIDE 34:2009 ACCREDITED REFERENCE MATERIAL PRODUCER CERTIFICATE NO. 1539.03

ISO/IEC 17025:2005 ACCREDITED CHEMICAL TESTING LABORATORY CERTIFICATE NO. 1539.02

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ERA
A Waters Company

Reference Material

▪ Certificate of Analysis ▪

Product: Metals in Soil
Catalog Number: 540
Lot No. D105-540
Certificate Issue Date: March 19, 2019
Expiration Date: October 12, 2022
Revision Number: Original

Product use instructions are included as part of the certification packet and are paginated separately from this Certificate of Analysis. Please reference the product use instructions for catalog #540 revision 030512.

CERTIFICATION

Parameter	Certified Value[1]	Reference Value	Uncertainty[2]	QC Performance Acceptance Limits[3]	PT Performance Acceptance Limits[4]
	mg/kg	mg/kg	%	mg/kg	mg/kg
Aluminum	10100	8800	8.32	4600 - 13000	4470 - 13100
Antimony	282	147	7.70	6.17 - 289	28.2 - 366
Arsenic	155	143	6.34	119 - 168	100 - 186
Barium	439	415	5.37	343 - 488	311 - 519
Beryllium	192	179	2.78	149 - 210	134 - 224
Boron	216	160	7.08	113 - 208	96.1 - 238
Cadmium	61.5	56.2	0.528	46.6 - 65.9	42.2 - 70.3
Calcium	5190	4960	6.64	4090 - 5840	3610 - 6310
Chromium	104	101	4.75	83.2 - 118	70.5 - 131
Cobalt	196	189	0.500	158 - 219	141 - 236
Copper	65.0	63.1	2.65	53.1 - 73.1	47.3 - 78.9
Iron	15000	15700	8.94	10100 - 21300	6000 - 25400
Lead	126	125	4.77	103 - 146	89.3 - 160
Magnesium	2570	2410	6.26	1860 - 2970	1520 - 3310
Manganese	387	382	5.37	315 - 449	290 - 474
Mercury	7.76	7.61	13.7	5.53 - 9.69	4.57 - 10.7
Molybdenum	120	107	0.500	86.0 - 128	75.5 - 139
Nickel	117	108	0.514	89.5 - 127	75.7 - 141
Potassium	2420	2110	5.62	1500 - 2720	1260 - 2960
Selenium	84.6	77.9	7.10	61.8 - 94.0	49.2 - 107
Silver	34.6	34.3	8.34	27.8 - 40.9	23.6 - 45.1
Sodium	161	145	6.72	106 - 183	54.3 - 235
Strontium	104	104	3.95	85.1 - 123	74.8 - 133
Thallium	123	113	0.500	91.3 - 134	77.1 - 149

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▪ Certificate of Analysis ▪

Parameter	Certified Value[1]	Reference Value	Uncertainty[2]	QC Performance Acceptance Limits[3]	PT Performance Acceptance Limits[4]
	mg/kg	mg/kg	%	mg/kg	mg/kg
Tin	118	107	0.500	83.5 - 130	61.2 - 152
Titanium	512	421	5.80	114 - 728	0.00 - 854
Uranium	103	104	6.18	79.1 - 128	71.9 - 135
Vanadium	87.3	83.7	8.55	66.8 - 101	54.2 - 113
Zinc	251	240	3.98	194 - 285	168 - 312

ANALYTICAL VERIFICATION

Parameter	Certified Value[1]	Proficiency Testing Study			NIST Traceability	
		Mean	Recovery[5]	n	SRM Number	Recovery
	mg/kg	mg/kg	%			%
Aluminum	10100	8800	87.1	193	-	-
Antimony	282	147	52.3	216	-	-
Arsenic	155	143	92.5	240	-	-
Barium	439	415	94.6	222	-	-
Beryllium	192	179	93.4	220	-	-
Boron	216	160	74.2	152	-	-
Cadmium	61.5	56.2	91.5	239	-	-
Calcium	5190	4960	95.6	175	-	-
Chromium	104	101	96.8	237	-	-
Cobalt	196	189	96.2	215	-	-
Copper	65.0	63.1	97.1	237	-	-
Iron	15000	15700	105	195	-	-
Lead	126	125	99.0	243	-	-
Magnesium	2570	2410	93.9	177	-	-
Manganese	387	382	98.7	215	-	-
Mercury	7.76	7.61	98.0	157	-	-
Molybdenum	120	107	89.4	216	-	-
Nickel	117	108	92.5	235	-	-
Potassium	2420	2110	87.2	181	-	-
Selenium	84.6	77.9	92.1	231	-	-

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▪ Certificate of Analysis ▪

Parameter	Certified Value[1]	Proficiency Testing Study			NIST Traceability	
		Mean	Recovery[5]	n	SRM Number	Recovery
	mg/kg	mg/kg	%			%
Silver	34.6	34.3	99.3	216	-	-
Sodium	161	145	89.8	166	-	-
Strontium	104	104	99.9	148	-	-
Thallium	123	113	91.8	215	-	-
Tin	118	107	90.4	164	-	-
Titanium	512	421	82.2	157	-	-
Uranium	103	104	101	61	-	-
Vanadium	87.3	83.7	95.9	214	-	-
Zinc	251	240	95.5	234	-	-

1. The **Certified Values** are the actual "made-to" concentrations confirmed by ERA analytical verification. The certified values are monitored and purchasers will be notified of any significant changes resulting in recertification or withdrawal of this reference material during the period of validity of this certificate.

2. The **Uncertainty** is the total propagated uncertainty at the 95% confidence interval. The uncertainty is based on the preparation and internal analytical verification of the product by ERA, multiplied by a coverage factor. The uncertainty applies to the product as supplied and does not take into account any required or optional dilution and/or preparations the laboratory may perform while using this product.

3. The **QC Performance Acceptance Limits (QC PALs™)**are based on actual historical data collected in ERA's Proficiency Testing program. The QC PALs™ reflect any inherent biases in the methods used to establish the limits and closely approximate a 95% confidence interval of the performance that experienced laboratories should achieve using accepted environmental methods. Use the QC PALs™ to realistically evaluate your performance against your peers.

4. The **PT Performance Acceptance Limits (PT PALs™)** are calculated using the regression equations and fixed acceptance criteria specified in the NELAC proficiency testing requirements. Use the PT PALs™ when analyzing this QC standard alongside USEPA and NELAC compliant PT standards. Please note that many PT study acceptance limits are concentration dependent (some non-linearly) and, therefore, the acceptance limits of this QC standard and any PT standard may differ relative to their difference in concentrations.

5. The **PT Data/Traceability** data include the mean value, percent recovery and number of data points reported by the laboratories in our Proficiency Testing study compared to the Certified Values. In addition, where NIST Standard Reference Materials (SRMs) are available, each analyte has been analytically traced to the NIST SRM listed. This product is traceable to the lot numbers of its starting materials. All gravimetric and volumetric measurements related to its manufacture are traceable to NIST through an unbroken chain of comparisons.
Traceability Recovery (%) = [(% recovery certified standard)/(% recovery NIST SRM)]*100
The traceability data shown were compiled by analyzing the ERA standards or their associated stock solutions against the applicable NIST SRMs.

6. For additional information on this product such as intended use, instructions for use, level of homogeneity, and safety information, please refer to the provided Instruction Sheet

If you have any questions or need technical assistance, please call ERA technical assistance at 1-800-372-0122 or send an email to info@eraqc.com.

Certifying Officer

Brian Miller

Brian Miller

Quality Officer

Matthew Seebeck

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ERA
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Certified Reference Material

▪ Certificate of Analysis ▪

Product: Metals in Soil
Catalog Number: 540
Lot No. D109-540
Certificate Issue Date: March 24, 2020
Expiration Date: October 03, 2023
Revision Number: Original

Product use instructions are included as part of the certification packet and are paginated separately from this Certificate of Analysis. Please reference the product use instructions for catalog #540 revision 090119.

CERTIFICATION

Parameter	Certified Value[1]	Reference Value[7]	Uncertainty[2]	QC Performance Acceptance Limits[3]	PT Performance Acceptance Limits[4]
	mg/kg	mg/kg	%	mg/kg	mg/kg
Aluminum	10100	8130	2.54	3920 - 12300	4060 - 12200
Antimony	259	134	5.03	4.56 - 264	25.9 - 335
Arsenic	171	156	3.38	129 - 183	109 - 203
Barium	253	239	4.81	197 - 280	179 - 298
Beryllium	179	169	6.59	141 - 198	127 - 212
Boron	114	87.5	10.3	62.5 - 113	52.5 - 125
Cadmium	149	137	5.43	113 - 160	103 - 171
Calcium	5190	4760	3.48	3890 - 5640	3460 - 6070
Chromium	163	154	3.79	126 - 181	108 - 200
Cobalt	127	121	5.07	101 - 141	90.8 - 151
Copper	57.0	54.9	4.13	46.1 - 63.6	41.1 - 68.6
Iron	15000	14100	6.27	8470 - 19700	4920 - 23200
Lead	133	130	3.00	107 - 152	93.3 - 167
Magnesium	2570	2320	3.32	1760 - 2880	1440 - 3200
Manganese	277	269	2.67	221 - 317	199 - 340
Mercury	21.6	20.5	7.72	14.7 - 26.3	12.3 - 28.6
Molybdenum	108	95.4	2.61	76.4 - 114	66.9 - 124
Nickel	58.7	53.9	4.97	44.5 - 63.3	37.7 - 70.0
Potassium	2420	2020	3.06	1410 - 2630	1190 - 2850
Selenium	181	167	5.63	132 - 201	113 - 221
Silver	35.5	33.6	5.20	26.8 - 40.3	23.0 - 44.1
Sodium	161	133	2.76	95.1 - 171	46.5 - 220
Strontium	89.7	87.9	4.59	71.7 - 104	62.8 - 113
Thallium	121	112	5.19	90.3 - 133	76.1 - 147

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▪ Certificate of Analysis ▪

Parameter	Certified Value[1]	Reference Value[7]	Uncertainty[2]	QC Performance Acceptance Limits[3]	PT Performance Acceptance Limits[4]
	mg/kg	mg/kg	%	mg/kg	mg/kg
Tin	83.5	74.0	5.42	57.6 - 90.4	39.7 - 108
Titanium	474	333	7.17	48.6 - 617	46.3 - 620
Uranium	51.9	51.9	3.36	39.6 - 64.3	35.9 - 68.0
Vanadium	68.1	62.6	6.00	49.4 - 75.8	37.0 - 88.3
Zinc	165	158	2.34	128 - 188	111 - 205

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ANALYTICAL VERIFICATION

Parameter	Certified Value[1]	Proficiency Testing Study			NIST Traceability	
		Mean	Recovery[5]	n	SRM Number[6]	Recovery
	mg/kg	mg/kg	%			%
Aluminum	10100	8130	80.5	196	-	-
Antimony	259	134	51.8	217	-	-
Arsenic	171	156	91.3	243	-	-
Barium	253	239	94.3	230	-	-
Beryllium	179	169	94.6	223	-	-
Boron	114	87.5	76.7	150	-	-
Cadmium	149	137	91.8	249	-	-
Calcium	5190	4760	91.8	184	-	-
Chromium	163	154	94.4	245	-	-
Cobalt	127	121	95.3	221	-	-
Copper	57.0	54.9	96.2	243	-	-
Iron	15000	14100	93.9	199	-	-
Lead	133	130	97.7	251	-	-
Magnesium	2570	2320	90.1	182	-	-
Manganese	277	269	97.2	220	-	-
Mercury	21.6	20.5	94.7	172	-	-
Molybdenum	108	95.4	88.3	218	-	-
Nickel	58.7	53.9	91.8	242	-	-
Potassium	2420	2020	83.5	187	-	-
Selenium	181	167	92.2	235	-	-
Silver	35.5	33.6	94.5	222	-	-
Sodium	161	133	82.7	177	-	-
Strontium	89.7	87.9	98.0	151	-	-
Thallium	121	112	92.2	219	-	-
Tin	83.5	74.0	88.6	170	-	-
Titanium	474	333	70.3	157	-	-
Uranium	51.9	51.9	100	60	-	-
Vanadium	68.1	62.6	91.9	213	-	-
Zinc	165	158	95.8	238	-	-

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▪ Certificate of Analysis ▪

1. The **Certified Values** are the actual gravimetric/volumetric "made-to" concentrations confirmed by ERA analytical verification. The certified values are monitored and purchasers will be notified of any significant changes resulting in recertification or withdrawal of this certified reference material during the period of validity of this certificate.

2. The **Uncertainty** represents an expanded uncertainty and approximates a 95% confidence interval. The uncertainty is based on the characterization, homogeneity and stability characteristics of the product, multiplied by a coverage factor (k=2). The uncertainty applies to the product as supplied and does not take into account any required or optional dilution and/or preparations the laboratory may perform while using this product. The formula used to calculate the expanded uncertainty is:
$U_{expanded} = k * SQRT((U_{char}^2) + (U_{homogen}^2) + (U_{LTS}^2) + (U_{STS}^2) + (U_{RSS}^2))$

Where:

$U_{expanded}$ = Expanded uncertainty.
k = Coverage factor.
U_{char} = Combined standard uncertainty of the manufacturing and/or analytical verification assessment.
$U_{homogen}$ = Standard uncertainty of the homogeneity assessment.
U_{LTS} = Standard uncertainty associated with long-term stability.
U_{STS} = Standard uncertainty associated with short-term (transport) stability.
U_{RSS} = Standard uncertainty associated with repeated sampling of the product (where permitted by product use instructions).

3. The **QC Performance Acceptance Limits (QC PALs™)** are based on actual historical data collected in ERA's Proficiency Testing program. The QC PALs™ reflect any inherent biases in the methods used to establish the limits and closely approximate a 95% confidence interval of the performance that experienced laboratories should achieve using accepted environmental methods. Use the QC PALs™ to realistically evaluate your performance against your peers.

4. The **PT Performance Acceptance Limits (PT PALs™)** are calculated using the regression equations and fixed acceptance criteria specified in the NELAC proficiency testing requirements. Use the PT PALs™ when analyzing this certified reference material alongside USEPA and NELAC compliant PT study materials. Please note that many PT study acceptance limits are concentration dependent (some non-linearly) and therefore, the acceptance limits of this certified reference material and any PT study material may differ relative to their difference in concentrations.

5. The **PT Performance Data** include the mean value, percent recovery and number of data points reported by laboratories in our Proficiency Testing study compared to the Certified Values. In the event this lot was not used in a proficiency testing scheme, the data displayed was generated internally by ERA.

6. Where NIST Standard Reference Materials (SRMs) are available, each analyte has been analytically traced to the NIST SRM listed. **Analytical Traceability Recovery (%)** = [(% recovery ERA certified reference material)/(% recovery NIST SRM)]*100
The traceability data shown were compiled by analyzing this ERA certified reference material and/or it's associated stock solution(s) against the applicable NIST SRMs.

7. The **Reference Values** are equal to the mean recoveries for the parameters as determined in an interlaboratory round robin study. The **Reference Values** represent the expected performance for the analytes in this standard. ERA recommends using the **Reference Values** when assessing or evaluating your results.

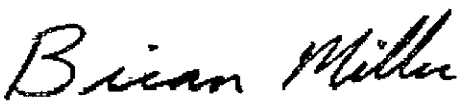
8. **Metrological Traceability**. This certified reference material is metrologically traceable to NIST mass reference materials through an unbroken chain of comparisons.

9. For additional information on this product such as intended use, storage information, instructions for use, minimum sample size, and safety information, please refer to the Product Use Instructions provided.

If you have any questions or need technical assistance, please call ERA technical assistance at 1-800-372-0122 or send an email to info@eraqc.com.

Certifying Officer

Brian Miller



Quality Officer

Matthew Seebeck

ERA
A Waters Company

Certified Reference Material

▪ Certificate of Analysis ▪

Product: Metals in Soil
Catalog Number: 540
Lot No. D113-540
Certificate Issue Date: March 23, 2021
Expiration Date: October 13, 2024
Revision Number: Original

Product use instructions are included as part of the certification packet and are paginated separately from this Certificate of Analysis. Please reference the product use instructions for catalog #540 revision 090119.

CERTIFICATION

Parameter	Certified Value[1]	Reference Value	Uncertainty[2]	QC Performance Acceptance Limits[3]	PT Performance Acceptance Limits[4]
	mg/kg	mg/kg	%	mg/kg	mg/kg
Aluminum	10100	8630	12.0	4420 - 12800	4370 - 12900
Antimony	256	129	16.8	0.742 - 257	25.6 - 323
Arsenic	91.6	84.5	15.1	70.0 - 99.0	59.2 - 110
Barium	259	249	9.94	206 - 292	187 - 311
Beryllium	175	163	3.89	135 - 191	122 - 204
Boron	95.7	76.7	12.8	55.7 - 97.7	48.0 - 107
Cadmium	107	99.0	11.5	82.2 - 116	74.2 - 124
Calcium	5190	4760	11.8	3890 - 5640	3460 - 6070
Chromium	129	122	14.6	101 - 144	85.7 - 159
Cobalt	63.6	61.7	11.5	51.9 - 71.6	46.3 - 77.2
Copper	62.3	61.5	12.3	51.9 - 71.0	46.1 - 76.8
Iron	15000	14500	15.7	8860 - 20100	5190 - 23800
Lead	122	123	13.9	103 - 144	88.3 - 158
Lithium	6.42	7.30	18.7	5.13 - 9.48	3.20 - 11.4
Magnesium	2570	2360	8.87	1810 - 2920	1480 - 3250
Manganese	470	456	13.4	375 - 538	350 - 563
Mercury	22.1	18.9	14.5	13.0 - 24.8	11.3 - 26.4
Molybdenum	80.1	72.8	11.0	58.7 - 87.0	50.5 - 95.2
Nickel	143	135	14.2	112 - 158	94.7 - 176
Potassium	2420	2090	8.21	1480 - 2700	1240 - 2940
Selenium	128	121	11.7	96.9 - 146	80.4 - 162
Silver	45.4	44.1	6.69	35.5 - 52.8	30.7 - 57.6
Sodium	161	136	9.34	97.4 - 174	48.1 - 223
Strontium	82.2	82.3	8.42	67.4 - 97.1	58.6 - 106

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▪ Certificate of Analysis ▪

Parameter	Certified Value[1]	Reference Value	Uncertainty[2]	QC Performance Acceptance Limits[3]	PT Performance Acceptance Limits[4]
	mg/kg	mg/kg	%	mg/kg	mg/kg
Thallium	154	144	7.54	117 - 171	101 - 187
Tin	89.7	79.8	14.0	62.2 - 97.4	43.5 - 116
Titanium	705	546	10.3	123 - 969	118 - 974
Uranium	29.5	30.9	3.38	23.9 - 37.9	21.3 - 40.5
Vanadium	196	186	14.2	148 - 224	138 - 235
Zinc	307	295	10.4	240 - 351	207 - 384

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Calculation of Method 6020 Metals

Aqueous Samples

The instrument will calculate the concentration (µg/L). This value is divided by 1000 to convert the units to mg/L. If the sample is diluted (DF), the result is multiplied by the DF to generate the final result.

$$\text{Result, mg/L} = C_s \times (1\text{mg}/1000\mu\text{g}) \times (DF)$$

Where:

C_s = Concentration of sample (µg/L)

DF = Dilution Factor

Alpha ICPMSQ Seq

3/5/2024 5:02:43 AM

Sample List Summary:

Instrument ID: iCAP Q

Index:	Label:	Rack	Vial	Main Runs:	Survey Runs:	Start Time:
1	Rinse	0	1	3	1	3/4/2024 5:06:56 AM
2	CAL LOT #M24-1045	0	1	3	1	3/4/2024 5:11:33 AM
3	Blank EJF ICPMSQ	4	49	3	1	3/4/2024 5:16:09 AM
4	0.2/20 Cal	0	2	3	1	3/4/2024 5:20:51 AM
5	1/100 Cal	0	3	3	1	3/4/2024 5:25:28 AM
6	10/1000 Cal	0	4	3	1	3/4/2024 5:30:06 AM
7	60/6000 Cal	0	5	3	1	3/4/2024 5:34:44 AM
8	120/12000 Cal	0	6	3	1	3/4/2024 5:39:22 AM
9	Sr 200ppb	4	55	3	1	3/4/2024 5:46:58 AM
10	ICV	0	7	3	1	3/4/2024 5:51:40 AM
11	ICB	0	10	3	1	3/4/2024 5:56:20 AM
12	ICV	0	7	3	1	3/4/2024 6:03:29 AM
13	ICB	0	10	3	1	3/4/2024 6:08:09 AM
14	ICSA	4	53	3	1	3/4/2024 6:12:50 AM
15	LDR Check - 10ppm	4	1	3	1	3/4/2024 6:17:32 AM
16	Rinse	0	1	3	1	3/4/2024 6:22:12 AM
17	CCV	0	9	3	1	3/4/2024 6:26:48 AM
18	CCB	0	10	3	1	3/4/2024 6:31:30 AM
19	L2410277-01d10 6020TL	1	1	3	1	3/4/2024 6:42:13 AM
20	L2410277-02d10 6020TL	1	2	3	1	3/4/2024 6:46:50 AM
21	L2410277-04d10 6020TL	1	3	3	1	3/4/2024 6:51:27 AM
22	L2410277-07d50 6020TL	1	4	3	1	3/4/2024 6:56:04 AM
23	L2410277-11d50 6020TL	1	5	3	1	3/4/2024 7:00:41 AM
24	L2410277-12d50 6020TL	1	6	3	1	3/4/2024 7:05:20 AM
25	l2410288-04d10 6020TL	1	7	3	1	3/4/2024 7:09:58 AM
26	l2410288-05d10 6020TL	1	8	3	1	3/4/2024 7:14:37 AM
27	l2410288-09d10 6020TL	1	9	3	1	3/4/2024 7:19:15 AM
28	L2410274-01d10 6020TS	1	25	3	1	3/4/2024 7:23:54 AM
29	CCV	0	9	3	1	3/4/2024 7:28:30 AM
30	CCB	0	10	3	1	3/4/2024 7:33:12 AM
31	WG1890528-1d10 6020TS	1	10	3	1	3/4/2024 7:43:04 AM
32	xWG1890528-2d10 6020TS	1	11	3	1	3/4/2024 7:47:44 AM
33	WG1890528-3d10 6020TS	1	13	3	1	3/4/2024 7:52:24 AM
34	WG1890528-5d10 6020TS	1	15	3	1	3/4/2024 7:57:00 AM
35	WG1890528-4d10 6020TS	1	14	3	1	3/4/2024 8:01:36 AM
36	L2410264-01d10 6020TS	1	12	3	1	3/4/2024 8:06:12 AM
37	L2410264-02d10 6020TS	1	17	3	1	3/4/2024 8:10:52 AM
38	L2410264-03d10 6020TS	1	18	3	1	3/4/2024 8:15:30 AM
39	WG1890528-2d50 6020TS	1	32	3	1	3/4/2024 8:20:07 AM
40	WG1890528-6d50 6020TS	1	16	3	1	3/4/2024 8:24:45 AM
41	CCV	0	9	3	1	3/4/2024 8:29:22 AM
42	CCB	0	10	3	1	3/4/2024 8:34:03 AM
43	L2410264-04d10 6020TS	1	19	3	1	3/4/2024 8:39:21 AM
44	L2410264-05d10 6020TS	1	20	3	1	3/4/2024 8:43:59 AM
45	L2410264-06d10 6020TS	1	21	3	1	3/4/2024 8:48:37 AM
46	L2410264-07d10 6020TS	1	22	3	1	3/4/2024 8:53:16 AM
47	L2410264-08d10 6020TS	1	23	3	1	3/4/2024 8:57:54 AM
48	L2410264-09d10 6020TS	1	24	3	1	3/4/2024 9:02:33 AM
49	L2410274-02d10 6020TS	1	26	3	1	3/4/2024 9:07:12 AM
50	L2410274-03d10 6020TS	1	27	3	1	3/4/2024 9:11:49 AM
51	L2410274-04d10 6020TS	1	28	3	1	3/4/2024 9:16:25 AM

Alpha ICPMSQ Seq

3/5/2024 5:02:43 AM

Index:	Label:	Rack	Vial	Main Runs:	Survey Runs:	Start Time:
52	L2410274-05d10 6020TS	1	29	3	1	3/4/2024 9:21:02 AM
53	CCV	0	9	3	1	3/4/2024 9:25:39 AM
54	CCB	0	10	3	1	3/4/2024 9:30:21 AM
55	L2410274-06d10 6020TS	1	30	3	1	3/4/2024 9:45:20 AM
56	L2410274-07d10 6020TS	1	31	3	1	3/4/2024 9:49:58 AM
57	WG1865915-2d10 A2-6020T	1	33	3	1	3/4/2024 9:54:35 AM
58	WG1865915-3d10 A2-6020T	1	35	3	1	3/4/2024 9:59:14 AM
59	WG1865915-5d10 A2-6020T	1	37	3	1	3/4/2024 10:03:52 AM
60	WG1865915-4d2 A2-6020T	1	36	3	1	3/4/2024 10:08:29 AM
61	I2366705-122d2 A2-6020T	1	34	3	1	3/4/2024 10:13:08 AM
62	I2366705-123d2 A2-6020T	1	39	3	1	3/4/2024 10:17:47 AM
63	WG1865915-6d10 A2-6020T	1	38	3	1	3/4/2024 10:22:24 AM
64	WG1890892-18d5 6020SL	1	46	3	1	3/4/2024 10:27:01 AM
65	CCV	0	9	3	1	3/4/2024 10:31:39 AM
66	CCB	0	10	3	1	3/4/2024 10:36:21 AM
67	WG1890892-13 6020SL	1	40	3	1	3/4/2024 10:42:29 AM
68	WG1890892-14d20 6020SL	1	41	3	1	3/4/2024 10:47:06 AM
69	WG1890892-15d20 6020SL	1	43	3	1	3/4/2024 10:51:43 AM
70	WG1890892-16d20 6020SL	1	44	3	1	3/4/2024 10:56:21 AM
71	WG1890892-17d10 6020SL	1	45	3	1	3/4/2024 11:00:59 AM
72	I2410279-03 6020SL	1	42	3	1	3/4/2024 11:05:37 AM
73	xl2410279-01 6020SL	1	47	3	1	3/4/2024 11:10:15 AM
74	I2410279-02 6020SL	1	48	3	1	3/4/2024 11:14:53 AM
75	I2410279-04 6020SL	1	49	3	1	3/4/2024 11:19:32 AM
76	I2410279-05 6020SL	1	50	3	1	3/4/2024 11:24:10 AM
77	CCV	0	9	3	1	3/4/2024 11:28:47 AM
78	CCB	0	10	3	1	3/4/2024 11:33:29 AM
79	I2410279-06 6020SL	1	51	3	1	3/4/2024 11:38:57 AM
80	I2410279-01d10 6020SL	1	55	3	1	3/4/2024 11:46:08 AM
81	I2410539-04 6020SL	1	52	3	1	3/4/2024 11:50:45 AM
82	I2410539-06 6020SL	1	53	3	1	3/4/2024 11:55:23 AM
83	I2410792-01 6020SL	1	54	3	1	3/4/2024 12:00:00 PM
84	WG1890463-3d10 2008TL	1	59	3	1	3/4/2024 12:04:38 PM
85	WG1890463-4 2008TL	1	60	3	1	3/4/2024 12:09:18 PM
86	I2410258-01 2008TL	1	58	3	1	3/4/2024 12:13:57 PM
87	I2410258-03 2008TL	2	4	3	1	3/4/2024 12:18:36 PM
88	I2410258-04 2008TL	2	5	3	1	3/4/2024 12:23:14 PM
89	CCV	0	9	3	1	3/4/2024 12:27:52 PM
90	CCB	0	10	3	1	3/4/2024 12:32:34 PM
91	WG1890463-1 2008TL	1	56	3	1	3/4/2024 12:39:39 PM
92	WG1890463-2d10 2008TL	1	57	3	1	3/4/2024 12:44:18 PM
93	WG1890463-5d10 2008TL	2	2	3	1	3/4/2024 12:48:57 PM
94	WG1890463-6 2008TL	2	3	3	1	3/4/2024 12:53:35 PM
95	I2410258-02 2008TL	2	1	3	1	3/4/2024 12:58:13 PM
96	I2410258-05 2008TL	2	6	3	1	3/4/2024 1:02:51 PM
97	I2410258-06 2008TL	2	7	3	1	3/4/2024 1:07:29 PM
98	I2410258-07 2008TL	2	8	3	1	3/4/2024 1:12:08 PM
99	I2410258-08 2008TL	2	9	3	1	3/4/2024 1:16:46 PM
100	I2410258-09 2008TL	2	10	3	1	3/4/2024 1:21:25 PM
101	CCV	0	9	3	1	3/4/2024 1:26:04 PM
102	CCB	0	10	3	1	3/4/2024 1:31:45 PM
103	I2410258-10 2008TL	2	11	3	1	3/4/2024 1:39:55 PM
104	I2410258-11 2008TL	2	12	3	1	3/4/2024 1:44:34 PM
105	I2410258-12 2008TL	2	13	3	1	3/4/2024 1:49:14 PM
106	I2410258-13 2008TL	2	14	3	1	3/4/2024 1:53:53 PM
107	I2410258-14 2008TL	2	15	3	1	3/4/2024 1:58:31 PM

Alpha ICPMSQ Seq

3/5/2024 5:02:43 AM

Index:	Label:	Rack	Vial	Main Runs:	Survey Runs:	Start Time:
108	I2410258-15 2008TL	2	16	3	1	3/4/2024 2:03:10 PM
109	I2410258-16 2008TL	2	17	3	1	3/4/2024 2:07:49 PM
110	I2410258-17 2008TL	2	18	3	1	3/4/2024 2:12:27 PM
111	I2410258-06d10 2008TL	2	19	3	1	3/4/2024 2:17:06 PM
112	CCV	0	9	3	1	3/4/2024 2:21:46 PM
113	CCB	0	10	3	1	3/4/2024 2:26:28 PM
114	WG1889936-1 2008TL	2	20	3	1	3/4/2024 2:35:54 PM
115	WG1889936-2d20 2008TL	2	21	3	1	3/4/2024 2:45:01 PM
116	WG1889936-3d20 2008TL	2	23	3	1	3/4/2024 2:49:38 PM
117	WG1889936-4 2008TL	2	24	3	1	3/4/2024 2:54:17 PM
118	I2410272-02 2008TL	2	22	3	1	3/4/2024 2:58:57 PM
119	CCV	0	9	3	1	3/4/2024 3:06:34 PM
120	CCB	0	10	3	1	3/4/2024 3:11:17 PM
121	zWG1891325-1 6020SL	2	25	3	1	3/4/2024 3:38:44 PM
122	WG1891325-2d10 6020SL	2	26	3	1	3/4/2024 3:43:22 PM
123	WG1891325-3d10 6020SL	2	28	3	1	3/4/2024 3:48:01 PM
124	WG1891325-4d10 6020SL	2	29	3	1	3/4/2024 3:52:40 PM
125	WG1891325-5d10 6020SL	2	30	3	1	3/4/2024 3:57:19 PM
126	WG1891325-6d5 6020SL	2	31	3	1	3/4/2024 4:01:58 PM
127	I2410579-08 6020SL	2	27	3	1	3/4/2024 4:06:37 PM
128	I2410579-01 6020SL	2	32	3	1	3/4/2024 4:11:16 PM
129	I2410579-02 6020SL	2	33	3	1	3/4/2024 4:15:55 PM
130	I2410579-03 6020SL	2	34	3	1	3/4/2024 4:20:34 PM
131	CCV	0	9	3	1	3/4/2024 4:25:14 PM
132	CCB	0	10	3	1	3/4/2024 4:29:56 PM
133	CCV	0	9	3	1	3/4/2024 4:49:21 PM
134	CCB	0	10	3	1	3/4/2024 4:54:02 PM
135	WG1891325-1 6020SL	2	25	3	1	3/4/2024 5:12:33 PM
136	I2410579-10 6020SL	2	40	3	1	3/4/2024 5:17:13 PM
137	I2410579-04 6020SL	2	35	3	1	3/4/2024 5:21:52 PM
138	I2410579-05 6020SL	2	36	3	1	3/4/2024 5:26:32 PM
139	I2410579-06 6020SL	2	37	3	1	3/4/2024 5:31:12 PM
140	xl2410579-07 6020SL	2	38	3	1	3/4/2024 5:35:52 PM
141	xl2410579-09 6020SL	2	39	3	1	3/4/2024 5:40:31 PM
142	xtube popped off	0	9	3	1	3/4/2024 5:45:11 PM
143	xtube popped off	0	10	3	1	3/4/2024 5:49:53 PM
144	CCV	0	9	3	1	3/4/2024 6:14:41 PM
145	CCB	0	10	3	1	3/4/2024 6:19:22 PM
146	I2410579-07 6020SL	2	38	3	1	3/4/2024 6:26:20 PM
147	I2410579-09 6020SL	2	39	3	1	3/4/2024 6:31:00 PM
148	LDR Check (ICSA 10x)	4	1	3	1	3/4/2024 6:35:39 PM
149	CCV	0	9	3	1	3/4/2024 6:49:05 PM
150	CCB	0	10	3	1	3/4/2024 6:53:48 PM
151	WG1890895-1 6020TL	2	41	3	1	3/4/2024 6:59:18 PM
152	WG1890895-2d10 6020TL	2	42	3	1	3/4/2024 7:03:58 PM
153	WG1890895-3d10 6020TL	2	44	3	1	3/4/2024 7:08:37 PM
154	WG1890895-5d10 6020TL	2	46	3	1	3/4/2024 7:13:17 PM
155	WG1890895-4 6020TL	2	45	3	1	3/4/2024 7:17:57 PM
156	I2410492-01 6020TL	2	43	3	1	3/4/2024 7:22:36 PM
157	I2410492-02 6020TL	2	48	3	1	3/4/2024 7:27:15 PM
158	I2410492-03 6020TL	2	49	3	1	3/4/2024 7:31:56 PM
159	I2410492-04 6020TL	2	50	3	1	3/4/2024 7:36:35 PM
160	WG1890895-6d5 6020TL	2	47	3	1	3/4/2024 7:41:15 PM
161	CCV	0	9	3	1	3/4/2024 7:45:55 PM
162	CCB	0	10	3	1	3/4/2024 7:50:38 PM
163	CCV	0	9	3	1	3/4/2024 8:02:56 PM

Alpha ICPMSQ Seq

3/5/2024 5:02:43 AM

Index:	Label:	Rack	Vial	Main Runs:	Survey Runs:	Start Time:
164	CCB	0	10	3	1	3/4/2024 8:07:38 PM
165	I2410492-07 6020TL	2	53	3	1	3/4/2024 8:20:17 PM
166	I2410492-05 6020TL	2	51	3	1	3/4/2024 8:24:58 PM
167	I2410492-06 6020TL	2	52	3	1	3/4/2024 8:29:38 PM
168	CCV	0	9	3	1	3/4/2024 8:37:51 PM
169	CCB	0	10	3	1	3/4/2024 8:42:34 PM
170	WG1891325-2d10 6020SL	2	26	3	1	3/4/2024 9:07:10 PM
171	CCV	0	9	3	1	3/4/2024 9:15:32 PM
172	CCB	0	10	3	1	3/4/2024 9:20:15 PM

Alpha ICPMSQ2 Seq

3/5/2024 9:03:49 PM

Sample List Summary:

Instrument ID: iCAP Q

Index:	Label:	Rack	Vial	Main Runs:	Survey Runs:	Start Time:
1	Rinse	0	1	3	1	3/5/2024 5:18:36 AM
2	CAL LOT #M24-1045	0	1	3	1	3/5/2024 5:23:01 AM
3	Blank EJF ICPMSQ2	4	49	3	1	3/5/2024 5:27:27 AM
4	0.2/20 Cal	0	2	3	1	3/5/2024 5:31:58 AM
5	1/100 Cal	0	3	3	1	3/5/2024 5:36:24 AM
6	10/1000 Cal	0	4	3	1	3/5/2024 5:40:51 AM
7	60/6000 Cal	0	5	3	1	3/5/2024 5:45:18 AM
8	120/12000 Cal	0	6	3	1	3/5/2024 5:49:46 AM
9	Sr 200ppb	4	55	3	1	3/5/2024 6:04:51 AM
10	ICV	0	7	3	1	3/5/2024 6:09:22 AM
11	ICB	0	10	3	1	3/5/2024 6:13:51 AM
12	ICSA	4	53	3	1	3/5/2024 6:20:12 AM
13	LDR Check - 1ppm	4	1	3	1	3/5/2024 6:24:42 AM
14	Rinse	0	1	3	1	3/5/2024 6:30:36 AM
15	CCV	0	9	3	1	3/5/2024 6:35:02 AM
16	CCB	0	10	3	1	3/5/2024 6:39:32 AM
17	ICSA	4	53	3	1	3/5/2024 6:47:18 AM
18	Rinse	0	1	3	1	3/5/2024 6:51:45 AM
19	CCV	0	9	3	1	3/5/2024 6:56:10 AM
20	CCB	0	10	3	1	3/5/2024 7:00:40 AM
21	WG1891910-1 6020TL	1	1	3	1	3/5/2024 7:14:08 AM
22	WG1891910-2d20 6020TL	1	2	3	1	3/5/2024 7:18:34 AM
23	WG1891910-3d20 6020TL	1	4	3	1	3/5/2024 7:23:01 AM
24	WG1891910-4d20 6020TL	1	5	3	1	3/5/2024 7:27:29 AM
25	WG1891910-5d10 6020TL	1	6	3	1	3/5/2024 7:31:56 AM
26	WG1891910-6d5 6020TL	1	7	3	1	3/5/2024 7:36:25 AM
27	I2410449-01 6020TL	1	3	3	1	3/5/2024 7:40:53 AM
28	I2410504-09 6020TL	1	13	3	1	3/5/2024 7:45:21 AM
29	I2410677-02 6020TL	1	14	3	1	3/5/2024 7:49:47 AM
30	I2410449-01d10 6020TL	1	24	3	1	3/5/2024 7:58:35 AM
31	CCV	0	9	3	1	3/5/2024 8:06:16 AM
32	CCB	0	10	3	1	3/5/2024 8:10:47 AM
33	WG1892073-1d10 6020TS	1	26	3	1	3/5/2024 8:15:23 AM
34	WG1892073-2d50 6020TS	1	27	3	1	3/5/2024 8:19:50 AM
35	WG1892073-3d50 6020TS	1	29	3	1	3/5/2024 8:24:16 AM
36	WG1892073-5d50 6020TS	1	31	3	1	3/5/2024 8:28:43 AM
37	xWG1892073-4d10 6020TS	1	30	3	1	3/5/2024 8:33:11 AM
38	WG1892073-6d50 6020TS	1	32	3	1	3/5/2024 8:37:38 AM
39	I2408641-56d10 6020TS	1	28	3	1	3/5/2024 8:42:06 AM
40	I2406395-102d10 6020TS	1	33	3	1	3/5/2024 8:46:33 AM
41	I2408641-57d10 6020TS	1	34	3	1	3/5/2024 8:51:01 AM
42	xLDR Check - As 1 ppm	1	36	3	1	3/5/2024 8:55:30 AM
43	WG1891910-6d50 6020TL	1	25	3	1	3/5/2024 8:59:59 AM
44	CCV	0	9	3	1	3/5/2024 9:04:25 AM
45	CCB	0	10	3	1	3/5/2024 9:08:56 AM
46	xLDR Check - As 1 ppm	1	37	3	1	3/5/2024 9:19:27 AM
47	WG1892073-4d50 6020TS	1	38	3	1	3/5/2024 9:25:17 AM
48	CCV	0	9	3	1	3/5/2024 9:30:34 AM
49	CCB	0	10	3	1	3/5/2024 9:35:05 AM
50	WG1891910-2d20 6020TL	1	2	3	1	3/5/2024 9:46:47 AM
51	CCV	0	9	3	1	3/5/2024 9:52:12 AM

Alpha ICPMSQ2 Seq

3/5/2024 9:03:49 PM

Index:	Label:	Rack	Vial	Main Runs:	Survey Runs:	Start Time:
52	CCB	0	10	3	1	3/5/2024 9:57:58 AM
53	WG1891173-1 6020TL	1	39	3	1	3/5/2024 10:06:27 AM
54	WG1891173-2d10 6020TL	1	40	3	1	3/5/2024 10:10:54 AM
55	WG1891173-3d10 6020TL	1	42	3	1	3/5/2024 10:15:53 AM
56	WG1891173-4d10 6020TL	1	43	3	1	3/5/2024 10:20:20 AM
57	WG1891173-5d10 6020TL	1	44	3	1	3/5/2024 10:24:48 AM
58	WG1891173-6d5 6020TL	1	45	3	1	3/5/2024 10:29:16 AM
59	L2410579-08 6020TL	1	41	3	1	3/5/2024 10:33:44 AM
60	L2410507-01 6020TL	1	46	3	1	3/5/2024 10:38:11 AM
61	L2410507-03 6020TL	1	47	3	1	3/5/2024 10:42:40 AM
62	L2410579-01 6020TL	1	48	3	1	3/5/2024 10:47:09 AM
63	CCV	0	9	3	1	3/5/2024 10:51:38 AM
64	CCB	0	10	3	1	3/5/2024 10:56:09 AM
65	L2410579-08d10 6020TL	1	60	3	1	3/5/2024 11:09:33 AM
66	WG1891173-6d10 6020TL	2	1	3	1	3/5/2024 11:14:02 AM
67	L2410579-01d10 6020TL	2	2	3	1	3/5/2024 11:18:30 AM
68	L2410579-02 6020TL	1	49	3	1	3/5/2024 11:22:58 AM
69	L2410579-03 6020TL	1	50	3	1	3/5/2024 11:27:25 AM
70	L2410579-04 6020TL	1	51	3	1	3/5/2024 11:31:52 AM
71	L2410579-05 6020TL	1	52	3	1	3/5/2024 11:36:19 AM
72	L2410579-06 6020TL	1	53	3	1	3/5/2024 11:40:46 AM
73	L2410579-07 6020TL	1	54	3	1	3/5/2024 11:45:14 AM
74	L2410579-09 6020TL	1	55	3	1	3/5/2024 11:49:41 AM
75	CCV	0	9	3	1	3/5/2024 11:57:48 AM
76	CCB	0	10	3	1	3/5/2024 12:04:49 PM
77	WG1892179-1 6020TL	2	3	3	1	3/5/2024 12:09:43 PM
78	L2411614-09 6020TL	2	10	3	1	3/5/2024 12:14:11 PM
79	WG1892179-2d10 6020TL	2	4	3	1	3/5/2024 12:18:40 PM
80	WG1892179-3d10 6020TL	2	6	3	1	3/5/2024 12:23:08 PM
81	WG1892179-5d10 6020TL	2	8	3	1	3/5/2024 12:27:36 PM
82	WG1892179-4 6020TL	2	7	3	1	3/5/2024 12:32:04 PM
83	L2411174-04 6020TL	2	5	3	1	3/5/2024 12:36:32 PM
84	WG1892179-6d5 6020TL	2	9	3	1	3/5/2024 12:41:00 PM
85	CCV	0	9	3	1	3/5/2024 12:45:34 PM
86	CCB	0	10	3	1	3/5/2024 12:50:05 PM
87	L2410579-10 6020TL	1	56	3	1	3/5/2024 12:58:40 PM
88	L2410579-02d10 6020TL	2	11	3	1	3/5/2024 1:03:08 PM
89	L2410579-03d10 6020TL	2	12	3	1	3/5/2024 1:07:38 PM
90	L2410579-05d10 6020TL	2	13	3	1	3/5/2024 1:12:07 PM
91	L2410579-06d10 6020TL	2	14	3	1	3/5/2024 1:16:36 PM
92	L2410579-07d10 6020TL	2	15	3	1	3/5/2024 1:21:04 PM
93	L2410579-09d10 6020TL	2	16	3	1	3/5/2024 1:25:32 PM
94	CCV	0	9	3	1	3/5/2024 1:30:00 PM
95	CCB	0	10	3	1	3/5/2024 1:34:31 PM
96	WG1890948-1 6020TL	2	17	3	1	3/5/2024 1:53:06 PM
97	WG1890948-2d10 6020TL	2	18	3	1	3/5/2024 1:57:34 PM
98	WG1890948-3d10 6020TL	2	20	3	1	3/5/2024 2:02:51 PM
99	WG1890948-5d10 6020TL	2	22	3	1	3/5/2024 2:07:20 PM
100	WG1890948-4 6020TL	2	21	3	1	3/5/2024 2:11:49 PM
101	L2409285-04 6020TL	2	19	3	1	3/5/2024 2:16:17 PM
102	L2409137-10 6020TL	2	24	3	1	3/5/2024 2:20:45 PM
103	WG1890948-6d5 6020TL	2	23	3	1	3/5/2024 2:25:15 PM
104	CCV	0	9	3	1	3/5/2024 2:29:44 PM
105	CCB	0	10	3	1	3/5/2024 2:34:16 PM
106	I2410677-03 6020TL	1	15	3	1	3/5/2024 2:43:26 PM
107	WG1891910-7d20 6020TL	1	9	3	1	3/5/2024 2:47:53 PM

Alpha ICPMSQ2 Seq

3/5/2024 9:03:49 PM

Index:	Label:	Rack	Vial	Main Runs:	Survey Runs:	Start Time:
108	WG1891910-8d20 6020TL	1	10	3	1	3/5/2024 2:52:22 PM
109	WG1891910-9d10 6020TL	1	11	3	1	3/5/2024 2:56:52 PM
110	WG1891910-10d5 6020TL	1	12	3	1	3/5/2024 3:01:22 PM
111	I2410677-01 6020TL	1	8	3	1	3/5/2024 3:05:53 PM
112	L2410744-01 6020TL	1	57	3	1	3/5/2024 3:10:22 PM
113	L2410744-02 6020TL	1	58	3	1	3/5/2024 3:14:51 PM
114	L2410744-03 6020TL	1	59	3	1	3/5/2024 3:19:20 PM
115	CCV	0	9	3	1	3/5/2024 3:23:50 PM
116	CCB	0	10	3	1	3/5/2024 3:28:21 PM
117	CCV	0	9	3	1	3/5/2024 3:43:21 PM
118	CCB	0	10	3	1	3/5/2024 3:47:51 PM
119	I2410792-01 6020TL	1	16	3	1	3/5/2024 3:58:40 PM
120	I2410812-01 6020TL	1	17	3	1	3/5/2024 4:03:07 PM
121	I2410812-02 6020TL	1	18	3	1	3/5/2024 4:07:34 PM
122	I2410812-03 6020TL	1	19	3	1	3/5/2024 4:12:01 PM
123	I2410812-04 6020TL	1	20	3	1	3/5/2024 4:16:29 PM
124	CCV	0	9	3	1	3/5/2024 4:21:19 PM
125	CCB	0	10	3	1	3/5/2024 4:25:49 PM
126	WG1890905-3d20 6020TL	2	26	3	1	3/5/2024 4:30:45 PM
127	xWG1890905-5d10 6020TL	2	28	3	1	3/5/2024 4:36:23 PM
128	I2410566-02d10 6020TL	2	30	3	1	3/5/2024 4:44:36 PM
129	LDR Check (ICSA 10x)	4	60	3	1	3/5/2024 4:51:35 PM
130	WG1890905-4d20 6020TL	2	27	3	1	3/5/2024 4:57:19 PM
131	I2410566-01d20 6020TL	2	25	3	1	3/5/2024 5:01:46 PM
132	WG1890905-6d100 6020TL	2	29	3	1	3/5/2024 5:06:14 PM
133	WG1890905-3d200 6020TL	2	32	3	1	3/5/2024 5:17:21 PM
134	WG1890905-4d200 6020TL	2	33	3	1	3/5/2024 5:21:49 PM
135	I2410566-01d200 6020TL	2	31	3	1	3/5/2024 5:26:17 PM
136	CCV	0	9	3	1	3/5/2024 5:30:45 PM
137	CCB	0	10	3	1	3/5/2024 5:35:16 PM
138	WG1890905-5d20 6020TL	2	35	3	1	3/5/2024 5:41:38 PM
139	WG1890905-6d1000 6020TL	2	34	3	1	3/5/2024 5:46:06 PM
140	CCV	0	9	3	1	3/5/2024 5:51:01 PM
141	CCB	0	10	3	1	3/5/2024 5:55:32 PM
142	I2410812-05d10 6020TL	1	21	3	1	3/5/2024 6:13:26 PM
143	I2410812-06 6020TL	1	22	3	1	3/5/2024 6:17:54 PM
144	xICSA	4	53	3	1	3/5/2024 6:22:23 PM
145	ICSA	4	53	3	1	3/5/2024 6:27:11 PM
146	I2410871-01 6020TL	1	23	3	1	3/5/2024 6:36:03 PM
147	I2410677-02 6020TL	1	14	3	1	3/5/2024 6:40:32 PM
148	I2410677-02d10 6020TL	1	35	3	1	3/5/2024 6:44:58 PM
149	CCV	0	9	3	1	3/5/2024 6:49:27 PM
150	CCB	0	10	3	1	3/5/2024 6:53:58 PM
151	xLCS check	2	36	3	1	3/5/2024 6:59:23 PM
152	L2410744-01d10 6020TL	2	37	3	1	3/5/2024 7:12:26 PM
153	L2410744-02d10 6020TL	2	38	3	1	3/5/2024 7:16:55 PM
154	L2410744-03d10 6020TL	2	39	3	1	3/5/2024 7:21:23 PM
155	I2410677-01d10 6020TL	2	40	3	1	3/5/2024 7:28:08 PM
156	I2410677-02d10 6020TL	2	42	3	1	3/5/2024 7:32:37 PM
157	I2410792-01d10 6020TL	2	43	3	1	3/5/2024 7:37:05 PM
158	I2410812-01d10 6020TL	2	44	3	1	3/5/2024 7:41:33 PM
159	WG1891910-10d10 6020TL	2	41	3	1	3/5/2024 7:46:01 PM
160	I2410812-02d50 6020TL	2	45	3	1	3/5/2024 7:51:31 PM
161	CCV	0	9	3	1	3/5/2024 7:56:00 PM
162	CCB	0	10	3	1	3/5/2024 8:00:31 PM
163	I2410812-03d10 6020TL	2	46	3	1	3/5/2024 8:06:55 PM

Index:	Label:	Rack	Vial	Main Runs:	Survey Runs:	Start Time:
164	I2410812-04d10 6020TL	2	47	3	1	3/5/2024 8:11:24 PM
165	I2410812-06d10 6020TL	2	48	3	1	3/5/2024 8:15:53 PM
166	CCV	0	9	3	1	3/5/2024 8:20:27 PM
167	CCB	0	10	3	1	3/5/2024 8:24:58 PM
168	CCV	0	9	3	1	3/5/2024 8:30:19 PM
169	CCB	0	10	3	1	3/5/2024 8:34:50 PM

Alpha ICPMSQ2 Seq

3/6/2024 5:40:02 AM

Sample List Summary:

Instrument ID: iCAP Q

Index:	Label:	Rack	Vial	Main Runs:	Survey Runs:	Start Time:
1	Rinse	0	1	3	1	3/5/2024 8:39:56 PM
2	CAL LOT #M24-1045	0	1	3	1	3/5/2024 8:44:20 PM
3	Blank WKP ICPMSQ2	4	49	3	1	3/5/2024 8:48:45 PM
4	0.2/20 Cal	0	2	3	1	3/5/2024 8:53:16 PM
5	1/100 Cal	0	3	3	1	3/5/2024 8:57:42 PM
6	10/1000 Cal	0	4	3	1	3/5/2024 9:02:09 PM
7	60/6000 Cal	0	5	3	1	3/5/2024 9:06:37 PM
8	120/12000 Cal	0	6	3	1	3/5/2024 9:11:05 PM
9	Sr 200ppb	4	55	3	1	3/5/2024 9:15:34 PM
10	ICV	0	7	3	1	3/5/2024 9:20:04 PM
11	ICB	0	10	3	1	3/5/2024 9:24:34 PM
12	ICSA	4	53	3	1	3/5/2024 9:31:06 PM
13	LDR Check 1ppm	4	1	3	1	3/5/2024 9:35:36 PM
14	Rinse	0	1	3	1	3/5/2024 9:40:05 PM
15	CCV	0	9	3	1	3/5/2024 9:44:31 PM
16	CCB	0	10	3	1	3/5/2024 9:49:01 PM
17	WG1891954-1D2 A2-6020T	2	49	3	1	3/5/2024 9:55:15 PM
18	WG1891954-2d10 A2-6020T	2	50	3	1	3/5/2024 9:59:43 PM
19	WG1891954-3d10 A2-6020T	2	52	3	1	3/5/2024 10:04:11 PM
20	WG1891954-5d10 A2-6020T	2	54	3	1	3/5/2024 10:08:39 PM
21	WG1891954-4D2 A2-6020T	2	53	3	1	3/5/2024 10:13:07 PM
22	I2410713-01D2 A2-6020T	2	51	3	1	3/5/2024 10:17:34 PM
23	I2410713-02D2 A2-6020T	2	56	3	1	3/5/2024 10:22:02 PM
24	I2410713-03D2 A2-6020T	2	57	3	1	3/5/2024 10:26:30 PM
25	I2410713-04D2 A2-6020T	2	58	3	1	3/5/2024 10:30:58 PM
26	WG1891954-6d10 A2-6020T	2	55	3	1	3/5/2024 10:35:26 PM
27	CCV	0	9	3	1	3/5/2024 10:39:54 PM
28	CCB	0	10	3	1	3/5/2024 10:44:24 PM
29	I2410713-05D2 A2-6020T	2	59	3	1	3/5/2024 10:48:55 PM
30	I2410713-06D2 A2-6020T	2	60	3	1	3/5/2024 10:53:24 PM
31	I2410713-07D2 A2-6020T	3	1	3	1	3/5/2024 10:57:52 PM
32	I2410713-08D2 A2-6020T	3	2	3	1	3/5/2024 11:02:21 PM
33	I2410713-09D2 A2-6020T	3	3	3	1	3/5/2024 11:06:49 PM
34	I2410713-10D2 A2-6020T	3	4	3	1	3/5/2024 11:11:18 PM
35	I2410713-11D2 A2-6020T	3	5	3	1	3/5/2024 11:15:46 PM
36	I2410713-12D2 A2-6020T	3	6	3	1	3/5/2024 11:20:15 PM
37	I2410713-13D2 A2-6020T	3	7	3	1	3/5/2024 11:24:43 PM
38	I2410713-14D2 A2-6020T	3	8	3	1	3/5/2024 11:29:11 PM
39	CCV	0	9	3	1	3/5/2024 11:33:40 PM
40	CCB	0	10	3	1	3/5/2024 11:38:10 PM
41	I2410713-15D2 A2-6020T	3	9	3	1	3/5/2024 11:42:41 PM
42	I2410713-16D2 A2-6020T	3	10	3	1	3/5/2024 11:47:10 PM
43	CCV	0	9	3	1	3/5/2024 11:51:38 PM
44	CCB	0	10	3	1	3/5/2024 11:56:09 PM
45	CCV	0	9	3	1	3/6/2024 12:00:40 AM
46	CCB	0	10	3	1	3/6/2024 12:05:10 AM
47	CCB	0	10	3	1	

Alpha ICPMSQ Seq

3/5/2024 4:47:52 PM

Sample List Summary:

Instrument ID: iCAP Q

Index:	Label:	Rack	Vial	Main Runs:	Survey Runs:	Start Time:
1	Rinse	0	1	3	1	3/5/2024 5:01:45 AM
2	CAL LOT #M24-1045	0	1	3	1	3/5/2024 5:06:21 AM
3	Blank EJF ICPMSQ	4	49	3	1	3/5/2024 5:10:58 AM
4	0.2/20 Cal	0	2	3	1	3/5/2024 5:15:40 AM
5	1/100 Cal	0	3	3	1	3/5/2024 5:20:16 AM
6	10/1000 Cal	0	4	3	1	3/5/2024 5:24:53 AM
7	60/6000 Cal	0	5	3	1	3/5/2024 5:29:31 AM
8	120/12000 Cal	0	6	3	1	3/5/2024 5:34:10 AM
9	Sr 200ppb	4	55	3	1	3/5/2024 5:39:07 AM
10	ICV	0	7	3	1	3/5/2024 5:43:49 AM
11	ICB	0	10	3	1	3/5/2024 5:48:28 AM
12	ICSA	4	53	3	1	3/5/2024 5:53:22 AM
13	xLDR Check - 10ppm	1	1	3	1	3/5/2024 5:58:03 AM
14	LDR Check - 10ppm	4	1	3	1	3/5/2024 6:04:38 AM
15	Rinse	0	1	3	1	3/5/2024 6:09:18 AM
16	CCV	0	9	3	1	3/5/2024 6:13:54 AM
17	CCB	0	10	3	1	3/5/2024 6:18:35 AM
18	WG1891871-1 6020SL	1	1	3	1	3/5/2024 6:28:23 AM
19	WG1891871-2d10 6020SL	1	2	3	1	3/5/2024 6:32:59 AM
20	WG1890895-2d20 6020TL	1	23	3	1	3/5/2024 6:37:37 AM
21	WG1891325-2d20 6020SL	1	24	3	1	3/5/2024 6:42:15 AM
22	WG1891871-3d10 6020SL	1	4	3	1	3/5/2024 6:46:54 AM
23	WG1891871-5d10 6020SL	1	6	3	1	3/5/2024 6:51:32 AM
24	WG1891871-4 6020SL	1	5	3	1	3/5/2024 6:56:10 AM
25	L2411412-01 6020SL	1	3	3	1	3/5/2024 7:00:48 AM
26	L2411412-02 6020SL	1	17	3	1	3/5/2024 7:05:25 AM
27	WG1891871-6d5 6020SL	1	7	3	1	3/5/2024 7:10:02 AM
28	CCV	0	9	3	1	3/5/2024 7:14:40 AM
29	CCB	0	10	3	1	3/5/2024 7:19:22 AM
30	L2411412-03 6020SL	1	18	3	1	3/5/2024 7:25:22 AM
31	L2411412-04 6020SL	1	19	3	1	3/5/2024 7:29:59 AM
32	L2411412-05 6020SL	1	20	3	1	3/5/2024 7:34:36 AM
33	L2411412-06 6020SL	1	21	3	1	3/5/2024 7:39:14 AM
34	L2411412-07 6020SL	1	22	3	1	3/5/2024 7:43:52 AM
35	L2410731-03 6020SL	1	9	3	1	3/5/2024 7:48:30 AM
36	L2410731-04 6020SL	1	10	3	1	3/5/2024 7:53:09 AM
37	L2410731-05 6020SL	1	11	3	1	3/5/2024 7:57:49 AM
38	L2410731-06 6020SL	1	12	3	1	3/5/2024 8:02:28 AM
39	L2410731-07 6020SL	1	13	3	1	3/5/2024 8:07:08 AM
40	CCV	0	9	3	1	3/5/2024 8:11:44 AM
41	CCB	0	10	3	1	3/5/2024 8:16:26 AM
42	CCV	0	9	3	1	3/5/2024 8:35:04 AM
43	CCB	0	10	3	1	3/5/2024 8:39:45 AM
44	WG1890897-1 6020SL	1	25	3	1	3/5/2024 8:49:07 AM
45	L2410731-02 6020SL	1	8	3	1	3/5/2024 8:53:44 AM
46	WG1890897-2d20 6020SL	1	26	3	1	3/5/2024 8:58:23 AM
47	L2410731-08 6020SL	1	14	3	1	3/5/2024 9:02:59 AM
48	L2410731-09 6020SL	1	15	3	1	3/5/2024 9:07:35 AM
49	WG1890897-3d20 6020SL	1	28	3	1	3/5/2024 9:12:11 AM
50	WG1890897-4d20 6020SL	1	29	3	1	3/5/2024 9:16:48 AM
51	WG1890897-5d10 6020SL	1	30	3	1	3/5/2024 9:21:26 AM

Alpha ICPMSQ Seq

3/5/2024 4:47:52 PM

Index:	Label:	Rack	Vial	Main Runs:	Survey Runs:	Start Time:
52	I2410449-01 6020SL	1	27	3	1	3/5/2024 9:26:04 AM
53	I2410449-01d10 6020SL	1	35	3	1	3/5/2024 9:32:30 AM
54	CCV	0	9	3	1	3/5/2024 9:37:08 AM
55	CCB	0	10	3	1	3/5/2024 9:41:49 AM
56	WG1890419-1 6020TL	1	36	3	1	3/5/2024 9:50:19 AM
57	WG1890419-2d20 6020TL	1	37	3	1	3/5/2024 9:54:59 AM
58	WG1890897-2d5 6020SL	1	58	3	1	3/5/2024 10:03:46 AM
59	WG1890419-3d20 6020TL	1	39	3	1	3/5/2024 10:08:23 AM
60	WG1890419-4d20 6020TL	1	40	3	1	3/5/2024 10:13:00 AM
61	WG1890419-5d10 6020TL	1	41	3	1	3/5/2024 10:17:37 AM
62	I2410453-06 6020TL	1	38	3	1	3/5/2024 10:22:15 AM
63	L2410731-10 6020SL	1	16	3	1	3/5/2024 10:26:52 AM
64	I2410403-01 6020TL	1	43	3	1	3/5/2024 10:31:29 AM
65	WG1890897-6d5 6020SL	1	31	3	1	3/5/2024 10:36:07 AM
66	CCV	0	9	3	1	3/5/2024 10:40:45 AM
67	CCB	0	10	3	1	3/5/2024 10:45:27 AM
68	WG1890419-2d5 6020TL	1	59	3	1	3/5/2024 11:02:32 AM
69	I2410403-02 6020TL	1	44	3	1	3/5/2024 11:07:09 AM
70	I2410403-03 6020TL	1	45	3	1	3/5/2024 11:11:47 AM
71	I2410403-04 6020TL	1	46	3	1	3/5/2024 11:16:26 AM
72	I2410403-05 6020TL	1	47	3	1	3/5/2024 11:21:05 AM
73	I2410453-02 6020TL	1	48	3	1	3/5/2024 11:25:43 AM
74	I2410453-03 6020TL	1	49	3	1	3/5/2024 11:30:23 AM
75	I2410453-04 6020TL	1	50	3	1	3/5/2024 11:35:00 AM
76	I2410453-05 6020TL	1	51	3	1	3/5/2024 11:39:38 AM
77	WG1890419-6d5 6020TL	1	42	3	1	3/5/2024 11:44:15 AM
78	CCV	0	9	3	1	3/5/2024 11:48:53 AM
79	CCB	0	10	3	1	3/5/2024 11:53:34 AM
80	WG1891188-1 6020SL	1	60	3	1	3/5/2024 11:59:32 AM
81	I2410521-02 6020TL	1	56	3	1	3/5/2024 12:04:11 PM
82	I2410563-05 6020TL	1	57	3	1	3/5/2024 12:08:50 PM
83	WG1891188-2d10 6020SL	2	1	3	1	3/5/2024 12:19:42 PM
84	I2410453-07 6020TL	1	52	3	1	3/5/2024 12:26:26 PM
85	I2410453-08 6020TL	1	53	3	1	3/5/2024 12:31:03 PM
86	I2410453-09 6020TL	1	54	3	1	3/5/2024 12:35:40 PM
87	I2410453-10 6020TL	1	55	3	1	3/5/2024 12:40:18 PM
88	L2408819-04 6020SL	2	7	3	1	3/5/2024 12:44:56 PM
89	WG1891188-6d5 6020SL	2	6	3	1	3/5/2024 12:49:35 PM
90	CCV	0	9	3	1	3/5/2024 12:54:13 PM
91	CCB	0	10	3	1	3/5/2024 12:58:55 PM
92	WG1891188-3d10 6020SL	2	3	3	1	3/5/2024 1:05:34 PM
93	WG1891188-5d10 6020SL	2	5	3	1	3/5/2024 1:10:12 PM
94	WG1891188-4 6020SL	2	4	3	1	3/5/2024 1:14:50 PM
95	L2408819-02 6020SL	2	2	3	1	3/5/2024 1:19:29 PM
96	L2408819-04d10 6020SL	2	8	3	1	3/5/2024 1:24:07 PM
97	WG1891188-4d10 6020SL	2	9	3	1	3/5/2024 1:28:46 PM
98	L2408819-02d10 6020SL	2	10	3	1	3/5/2024 1:33:24 PM
99	CCV	0	9	3	1	3/5/2024 1:38:04 PM
100	CCB	0	10	3	1	3/5/2024 1:42:46 PM
101	WG1890975-1d10 6020TS	2	19	3	1	3/5/2024 1:55:40 PM
102	WG1891188-6d50 6020SL	2	28	3	1	3/5/2024 2:00:42 PM
103	CCV	0	9	3	1	3/5/2024 2:05:22 PM
104	CCB	0	10	3	1	3/5/2024 2:10:04 PM
105	WG1890975-2d50 6020TS	2	20	3	1	3/5/2024 2:17:05 PM
106	WG1890975-3d50 6020TS	2	22	3	1	3/5/2024 2:21:44 PM
107	WG1890975-4d50 6020TS	2	23	3	1	3/5/2024 2:26:23 PM

Alpha ICPMSQ Seq

3/5/2024 4:47:52 PM

Index:	Label:	Rack	Vial	Main Runs:	Survey Runs:	Start Time:
108	WG1890975-5d50 6020TS	2	24	3	1	3/5/2024 2:31:03 PM
109	WG1890975-6d50 6020TS	2	25	3	1	3/5/2024 2:35:43 PM
110	I2410383-01d10 6020TS	2	21	3	1	3/5/2024 2:40:22 PM
111	I2407990-01d10 6020TS	2	26	3	1	3/5/2024 2:45:01 PM
112	I2410383-02d10 6020TS	2	27	3	1	3/5/2024 2:49:40 PM
113	CCV	0	9	3	1	3/5/2024 2:54:42 PM
114	CCB	0	10	3	1	3/5/2024 2:59:24 PM
115	I2410383-01d100 6020TS	2	29	3	1	3/5/2024 3:04:09 PM
116	I2407990-01d100 6020TS	2	31	3	1	3/5/2024 3:08:48 PM
117	WG1890975-6d500 6020TS	2	30	3	1	3/5/2024 3:13:27 PM
118	CCV	0	9	3	1	3/5/2024 3:18:06 PM
119	CCB	0	10	3	1	3/5/2024 3:22:49 PM
120	WG1890905-1 6020TL	2	11	3	1	3/5/2024 3:35:35 PM
121	WG1890905-2d20 6020TL	2	12	3	1	3/5/2024 3:40:14 PM
122	WG1890905-3d20 6020TL	2	14	3	1	3/5/2024 3:44:54 PM
123	WG1890905-5d10 6020TL	2	16	3	1	3/5/2024 3:49:33 PM
124	WG1890905-4d10 6020TL	2	15	3	1	3/5/2024 3:54:12 PM
125	I2410566-01d10 6020TL	2	13	3	1	3/5/2024 3:58:51 PM
126	I2410566-02d10 6020TL	2	18	3	1	3/5/2024 4:03:32 PM
127	WG1890905-6d50 6020TL	2	17	3	1	3/5/2024 4:08:11 PM
128	CCV	0	9	3	1	3/5/2024 4:17:30 PM
129	CCB	0	10	3	1	3/5/2024 4:22:13 PM

Alpha ICPMSQ Seq

3/6/2024 5:52:58 AM

Sample List Summary:

Instrument ID: iCAP Q

Index:	Label:	Rack	Vial	Main Runs:	Survey Runs:	Start Time:
1	Rinse	0	1	3	1	3/5/2024 4:27:55 PM
2	CAL LOT #M24-1045	0	1	3	1	3/5/2024 4:32:30 PM
3	Blank WKP ICPMSQ	4	49	3	1	3/5/2024 4:37:06 PM
4	0.2/20 Cal	0	2	3	1	3/5/2024 4:41:48 PM
5	1/100 Cal	0	3	3	1	3/5/2024 4:46:25 PM
6	10/1000 Cal	0	4	3	1	3/5/2024 4:51:03 PM
7	60/6000 Cal	0	5	3	1	3/5/2024 4:55:41 PM
8	120/12000 Cal	0	6	3	1	3/5/2024 5:00:20 PM
9	Sr 200ppb	4	55	3	1	3/5/2024 5:05:00 PM
10	ICV	0	7	3	1	3/5/2024 5:09:41 PM
11	ICB	0	10	3	1	3/5/2024 5:14:21 PM
12	ICSA	4	53	3	1	3/5/2024 5:25:04 PM
13	LDR Check (ICSA 10x)	4	60	3	1	3/5/2024 5:29:46 PM
14	LDR Check 10PPM	4	1	3	1	3/5/2024 5:34:28 PM
15	Rinse	0	1	3	1	3/5/2024 5:39:26 PM
16	CCV	0	9	3	1	3/5/2024 5:44:03 PM
17	CCB	0	10	3	1	3/5/2024 5:48:44 PM
18	I2410744-01 6020SL	1	32	3	1	3/5/2024 6:17:13 PM
19	I2410744-02 6020SL	1	33	3	1	3/5/2024 6:21:51 PM
20	I2410744-03 6020SL	1	34	3	1	3/5/2024 6:26:29 PM
21	L2410833-03 6020TL	2	33	3	1	3/5/2024 6:32:32 PM
22	L2410833-09 6020TL	2	34	3	1	3/5/2024 6:37:11 PM
23	L2410843-01 6020TL	2	35	3	1	3/5/2024 6:41:49 PM
24	L2410843-02 6020TL	2	36	3	1	3/5/2024 6:46:28 PM
25	L2410843-03 6020TL	2	37	3	1	3/5/2024 6:51:07 PM
26	L2410843-04 6020TL	2	38	3	1	3/5/2024 6:55:46 PM
27	L2410866-01 6020TL	2	45	3	1	3/5/2024 7:00:24 PM
28	CCV	0	9	3	1	3/5/2024 7:05:03 PM
29	CCB	0	10	3	1	3/5/2024 7:09:44 PM
30	xL2410833-02 6020TL	2	32	3	1	3/5/2024 7:15:22 PM
31	L2410843-11 6020TL	2	44	3	1	3/5/2024 7:55:54 PM
32	L2410833-02 6020TL	2	32	3	1	3/5/2024 8:01:23 PM
33	L2410843-05 6020TL	2	39	3	1	3/5/2024 8:06:00 PM
34	L2410843-06 6020TL	2	40	3	1	3/5/2024 8:10:39 PM
35	L2410843-07 6020TL	2	41	3	1	3/5/2024 8:15:17 PM
36	L2410843-08 6020TL	2	42	3	1	3/5/2024 8:19:56 PM
37	L2410843-09 6020TL	2	43	3	1	3/5/2024 8:24:34 PM
38	CCV	0	9	3	1	3/5/2024 8:29:13 PM
39	CCB	0	10	3	1	3/5/2024 8:33:55 PM
40	WG1892091-1 6020TL	2	46	3	1	3/5/2024 8:42:27 PM
41	WG1892091-2d10 6020TL	2	47	3	1	3/5/2024 8:52:38 PM
42	WG1892091-3d10 6020TL	2	49	3	1	3/5/2024 8:57:14 PM
43	WG1892091-5d10 6020TL	2	51	3	1	3/5/2024 9:01:53 PM
44	WG1892091-4 6020TL	2	50	3	1	3/5/2024 9:06:32 PM
45	I2411340-01 6020TL	2	48	3	1	3/5/2024 9:11:11 PM
46	I2411340-02 6020TL	2	53	3	1	3/5/2024 9:15:50 PM
47	I2411340-03 6020TL	2	54	3	1	3/5/2024 9:20:29 PM
48	WG1892091-6d5 6020TL	2	52	3	1	3/5/2024 9:25:08 PM
49	CCV	0	9	3	1	3/5/2024 9:31:49 PM
50	CCB	0	10	3	1	3/5/2024 9:36:31 PM
51	L2410843-11 6020SL	3	4	3	1	3/5/2024 9:42:34 PM

Alpha ICPMSQ Seq

3/6/2024 5:52:58 AM

Index:	Label:	Rack	Vial	Main Runs:	Survey Runs:	Start Time:
52	L2410843-01 6020SL	2	55	3	1	3/5/2024 9:47:13 PM
53	L2410843-02 6020SL	2	56	3	1	3/5/2024 9:51:52 PM
54	L2410843-03 6020SL	2	57	3	1	3/5/2024 9:56:31 PM
55	L2410843-04 6020SL	2	58	3	1	3/5/2024 10:01:10 PM
56	L2410843-05 6020SL	2	59	3	1	3/5/2024 10:05:49 PM
57	L2410843-06 6020SL	2	60	3	1	3/5/2024 10:10:28 PM
58	L2410843-07 6020SL	3	1	3	1	3/5/2024 10:15:07 PM
59	L2410843-08 6020SL	3	2	3	1	3/5/2024 10:19:47 PM
60	L2410843-09 6020SL	3	3	3	1	3/5/2024 10:24:26 PM
61	CCV	0	9	3	1	3/5/2024 10:29:06 PM
62	CCB	0	10	3	1	3/5/2024 10:33:47 PM
63	WG1892149-1D2 A2-6020T	3	5	3	1	3/5/2024 10:38:30 PM
64	WG1892149-8D2 A2-6020T	3	14	3	1	3/5/2024 10:43:09 PM
65	WG1892149-2d10 A2-6020T	3	6	3	1	3/5/2024 10:47:49 PM
66	WG1892149-4d10 A2-6020T	3	10	3	1	3/5/2024 10:52:29 PM
67	WG1892149-5d10 A2-6020T	3	11	3	1	3/5/2024 10:57:08 PM
68	WG1892149-6d10 A2-6020T	3	12	3	1	3/5/2024 11:01:48 PM
69	WG1892149-7d10 A2-6020T	3	13	3	1	3/5/2024 11:06:27 PM
70	WG1892149-3D2 A2-6020T	3	8	3	1	3/5/2024 11:11:07 PM
71	I2404144-02D2 A2-6020T	3	7	3	1	3/5/2024 11:15:47 PM
72	I2404144-03D2 A2-6020T	3	9	3	1	3/5/2024 11:20:26 PM
73	CCV	0	9	3	1	3/5/2024 11:25:06 PM
74	CCB	0	10	3	1	3/5/2024 11:29:48 PM
75	I2404144-01D2 A2-6020T	3	15	3	1	3/5/2024 11:34:30 PM
76	I2404144-04D2 A2-6020T	3	16	3	1	3/5/2024 11:39:10 PM
77	I2404144-05D2 A2-6020T	3	17	3	1	3/5/2024 11:43:50 PM
78	I2404144-06D2 A2-6020T	3	18	3	1	3/5/2024 11:48:30 PM
79	I2404144-07D2 A2-6020T	3	19	3	1	3/5/2024 11:53:10 PM
80	I2404144-08D2 A2-6020T	3	20	3	1	3/5/2024 11:57:50 PM
81	I2404144-09D2 A2-6020T	3	21	3	1	3/6/2024 12:02:30 AM
82	I2404144-10D2 A2-6020T	3	22	3	1	3/6/2024 12:07:10 AM
83	I2404144-11D2 A2-6020T	3	23	3	1	3/6/2024 12:11:50 AM
84	I2404144-12D2 A2-6020T	3	24	3	1	3/6/2024 12:16:30 AM
85	CCV	0	9	3	1	3/6/2024 12:21:10 AM
86	CCB	0	10	3	1	3/6/2024 12:25:52 AM
87	I2404144-13D2 A2-6020T	3	25	3	1	3/6/2024 12:30:35 AM
88	I2404144-14D2 A2-6020T	3	26	3	1	3/6/2024 12:35:15 AM
89	I2404144-15D2 A2-6020T	3	27	3	1	3/6/2024 12:39:55 AM
90	I2404144-16D2 A2-6020T	3	28	3	1	3/6/2024 12:44:35 AM
91	I2404144-17D2 A2-6020T	3	29	3	1	3/6/2024 12:49:16 AM
92	I2404144-18D2 A2-6020T	3	30	3	1	3/6/2024 12:53:56 AM
93	I2404144-19D2 A2-6020T	3	31	3	1	3/6/2024 12:58:36 AM
94	I2404144-20D2 A2-6020T	3	32	3	1	3/6/2024 1:03:17 AM
95	WG1892149-8d10 A2-6020T	3	33	3	1	3/6/2024 1:07:57 AM
96	CCV	0	9	3	1	3/6/2024 1:12:38 AM
97	CCB	0	10	3	1	3/6/2024 1:17:20 AM
98	CCV	0	9	3	1	3/6/2024 1:22:03 AM
99	CCB	0	10	3	1	3/6/2024 1:26:45 AM
100	CCB	0	10	3	1	

METALS ELN REPORT

Workgroup: WG1891173

Digestion

Prep Method	Acid Type 1	Acid 1 Lot	Acid Type 2	Acid 2 Lot	Spike Type	Lims Spike Lot	Spike Lot	Post Spike Spikelot	Spike Lot	Pipette Id
EPA 3005A	1:1 HNO3	tHNO324082 00330CLH	1:1 HCl	tHCL240716 2251HCR	METALS	METSPIKE2	IPS, FPS, MIX	METPSMS	IPS, FPS, MIX	140, 326

Additional Reagent/Std

Sample/ Type	Digestion Date	Analyst	Sample Vol ml	Ph	Spike Amt ml	Start Date/Time	Hot Block Unit	Temperature (C)	Stop Date/Time	Final Vol	Comments
L2410507-01 SAMP	03/01/24 13:15	Raldi Cabral	50	<2		03/01/24 13:15	7	95.1	03/01/24 15:15	50	
L2410507-03 SAMP	03/01/24 13:15	Raldi Cabral	50	<2		03/01/24 13:15	7	95.1	03/01/24 15:15	50	
L2410579-01 WATER	03/01/24 13:15	Raldi Cabral	50	<2		03/01/24 13:15	7	95.1	03/01/24 15:15	50	
L2410579-02 WATER	03/01/24 13:15	Raldi Cabral	50	<2		03/01/24 13:15	7	95.1	03/01/24 15:15	50	
L2410579-03 WATER	03/01/24 13:15	Raldi Cabral	50	<2		03/01/24 13:15	7	95.1	03/01/24 15:15	50	
L2410579-04 WATER	03/01/24 13:15	Raldi Cabral	50	<2		03/01/24 13:15	7	95.1	03/01/24 15:15	50	
L2410579-05 WATER	03/01/24 13:15	Raldi Cabral	50	<2		03/01/24 13:15	7	95.1	03/01/24 15:15	50	
L2410579-06 WATER	03/01/24 13:15	Raldi Cabral	50	<2		03/01/24 13:15	7	95.1	03/01/24 15:15	50	
L2410579-07 WATER	03/01/24 13:15	Raldi Cabral	50	<2		03/01/24 13:15	7	95.1	03/01/24 15:15	50	
L2410579-08 WATER	03/01/24 13:15	Raldi Cabral	50	<2		03/01/24 13:15	7	95.1	03/01/24 15:15	50	
L2410579-09 WATER	03/01/24 13:15	Raldi Cabral	50	<2		03/01/24 13:15	7	95.1	03/01/24 15:15	50	
L2410579-10 WATER	03/01/24 13:15	Raldi Cabral	50	<2		03/01/24 13:15	7	95.1	03/01/24 15:15	50	
L2410744-01 SAMP	03/01/24 13:15	Raldi Cabral	50	<2		03/01/24 13:15	7	95.1	03/01/24 15:15	50	
L2410744-02 SAMP	03/01/24 13:15	Raldi Cabral	50	<2		03/01/24 13:15	7	95.1	03/01/24 15:15	50	

Reported: 04-NOV-24 11:55 AM

METALS ELN REPORT

Workgroup: WG1891173

Sample/ Type	Digestion Date	Analyst	Sample Vol ml	Ph	Spike Amt ml	Start Date/Time	Hot Block Unit	Temperature (C)	Stop Date/Time	Final Vol	Comments
L2410744-03 SAMP	03/01/24 13:15	Raldi Cabral	50	<2		03/01/24 13:15	7	95.1	03/01/24 15:15	50	
WG1891173-1 BLANK	03/01/24 13:15	Raldi Cabral	50	<2		03/01/24 13:15	7	95.1	03/01/24 15:15	50	FM2409280715 JDH
WG1891173-2 LCS	03/01/24 13:15	Raldi Cabral	50	<2	0.5	03/01/24 13:15	7	95.1	03/01/24 15:15	50	IPS2405302105CLH
WG1891173-3 MS	03/01/24 13:15	Raldi Cabral	50	<2	0.5	03/01/24 13:15	7	95.1	03/01/24 15:15	50	
WG1891173-4 MSD	03/01/24 13:15	Raldi Cabral	50	<2	0.5	03/01/24 13:15	7	95.1	03/01/24 15:15	50	eln: HCR
WG1891173-5 PS	03/01/24 13:15	Raldi Cabral	50	<2		03/01/24 13:15	7	95.1	03/01/24 15:15	50	
WG1891173-6 SERDIL	03/01/24 13:15	Raldi Cabral	50	<2		03/01/24 13:15	7	95.1	03/01/24 15:15	50	

Reagent	Actual Volume	Units
1:1 Hydrochloric Acid (H	.5	ml
1:1 Nitric Acid (HNO3)	1	ml

Reported: 04-NOV-24 11:55 AM

METALS ELN REPORT

Workgroup: WG1891325

Digestion

Prep Method	Acid Type 1	Acid 1 Lot	Acid Type 2	Acid 2 Lot	Spike Type	Lims Spike Lot	Spike Lot	Post Spike Spikelot	Spike Lot	Pipette Id
EPA 3005A	1:1 HNO3	tHNO324052 91221JWN	1:1 HCl	tHCL240716 2241HCR	METALS	METSPIKE2	IPS, FPS, MIX	METPSMS	IPS, FPS, MIX	140, 326

Additional Reagent/Std

Sample/ Type	Digestion Date	Analyst	Lab Filtration Date	Sample Vol	Ph	Spike Amt ml	Start Date/Time	Hot Block Unit	Temperature (C)	Stop Date/Time	Final Vol ml	Comments
L2410579-01 WATER	03/01/24 23:45	Brandon Siah	NA	50	<2		03/01/24 23:45	10	95	03/02/24 02:45	50	ALL CONTAINER L
L2410579-02 WATER	03/01/24 23:45	Brandon Siah	NA	50	<2		03/01/24 23:45	10	95	03/02/24 02:45	50	
L2410579-03 WATER	03/01/24 23:45	Brandon Siah	NA	50	<2		03/01/24 23:45	10	95	03/02/24 02:45	50	
L2410579-04 WATER	03/01/24 23:45	Brandon Siah	NA	50	<2		03/01/24 23:45	10	95	03/02/24 02:45	50	
L2410579-05 WATER	03/01/24 23:45	Brandon Siah	NA	50	<2		03/01/24 23:45	10	95	03/02/24 02:45	50	
L2410579-06 WATER	03/01/24 23:45	Brandon Siah	NA	50	<2		03/01/24 23:45	10	95	03/02/24 02:45	50	
L2410579-07 WATER	03/01/24 23:45	Brandon Siah	NA	50	<2		03/01/24 23:45	10	95	03/02/24 02:45	50	
L2410579-08 WATER	03/01/24 23:45	Brandon Siah	NA	50	<2		03/01/24 23:45	10	95	03/02/24 02:45	50	
L2410579-09 WATER	03/01/24 23:45	Brandon Siah	NA	50	<2		03/01/24 23:45	10	95	03/02/24 02:45	50	
L2410579-10 WATER	03/01/24 23:45	Brandon Siah	NA	50	<2		03/01/24 23:45	10	95	03/02/24 02:45	50	
WG1891325-1 BLANK	03/01/24 23:45	Brandon Siah	NA	50	<2		03/01/24 23:45	10	95	03/02/24 02:45	50	FM2409280715 JDH
WG1891325-2 LCS	03/01/24 23:45	Brandon Siah	NA	50	<2	.5	03/01/24 23:45	10	95	03/02/24 02:45	50	IPS240530210 5CLH
WG1891325-3 MS	03/01/24 23:45	Brandon Siah	NA	50	<2	.5	03/01/24 23:45	10	95	03/02/24 02:45	50	ELN: HCR

Reported: 04-NOV-24 11:55 AM

METALS ELN REPORT

Workgroup: WG1891325

Sample/ Type	Digestion Date	Analyst	Lab Filtration Date	Sample Vol	Ph	Spike Amt ml	Start Date/Time	Hot Block Unit	Temperature (C)	Stop Date/Time	Final Vol ml	Comments
WG1891325-4 MSD	03/01/24 23:45	Brandon Siah	NA	50	<2	.5	03/01/24 23:45	10	95	03/02/24 02:45	50	
WG1891325-5 PS	03/01/24 23:45	Brandon Siah	NA	50	<2		03/01/24 23:45	10	95	03/02/24 02:45	50	
WG1891325-6 SERDIL	03/01/24 23:45	Brandon Siah	NA	50	<2		03/01/24 23:45	10	95	03/02/24 02:45	50	

Reagent	Actual Volume	Units
1:1 Hydrochloric Acid (H	.5	ml
1:1 Nitric Acid (HNO3)	1	ml

Reported: 04-NOV-24 11:55 AM

Inorganic Data
(Mercury Analysis)

Form 1
METALS

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2410579-01	**Date Collected**	: 02/26/24 14:10
Client ID	: MW-1S	**Date Received**	: 02/27/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 03/01/24 21:35
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,7470A	**Analyst**	: MJR
Lab File ID	: WG1891167.pdf	**Instrument ID**	: NIC3
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 7470A	**Date Digested**	: 03/01/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7439-97-6	Mercury, Total	ND	0.00020	0.00009	U

Form 1
METALS

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2410579-02	**Date Collected**	: 02/26/24 15:25
Client ID	: MW-2S	**Date Received**	: 02/27/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 03/01/24 21:38
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,7470A	**Analyst**	: MJR
Lab File ID	: WG1891167.pdf	**Instrument ID**	: NIC3
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 7470A	**Date Digested**	: 03/01/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7439-97-6	Mercury, Total	ND	0.00020	0.00009	U

Form 1
METALS

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2410579-03	**Date Collected**	: 02/26/24 16:30
Client ID	: MW-3S	**Date Received**	: 02/27/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 03/01/24 21:42
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,7470A	**Analyst**	: MJR
Lab File ID	: WG1891167.pdf	**Instrument ID**	: NIC3
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 7470A	**Date Digested**	: 03/01/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7439-97-6	Mercury, Total	ND	0.00020	0.00009	U

Form 1
METALS

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2410579-04	**Date Collected**	: 02/27/24 09:05
Client ID	: MW-4D	**Date Received**	: 02/27/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 03/01/24 21:59
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,7470A	**Analyst**	: MJR
Lab File ID	: WG1891167.pdf	**Instrument ID**	: NIC3
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 7470A	**Date Digested**	: 03/01/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7439-97-6	Mercury, Total	ND	0.00020	0.00009	U

Form 1
METALS

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2410579-05	**Date Collected**	: 02/27/24 08:40
Client ID	: MW-5S	**Date Received**	: 02/27/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 03/01/24 22:02
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,7470A	**Analyst**	: MJR
Lab File ID	: WG1891167.pdf	**Instrument ID**	: NIC3
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 7470A	**Date Digested**	: 03/01/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7439-97-6	Mercury, Total	ND	0.00020	0.00009	U

Form 1
METALS

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2410579-06	**Date Collected**	: 02/26/24 16:35
Client ID	: MW-6D	**Date Received**	: 02/27/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 03/01/24 22:05
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,7470A	**Analyst**	: MJR
Lab File ID	: WG1891167.pdf	**Instrument ID**	: NIC3
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 7470A	**Date Digested**	: 03/01/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7439-97-6	Mercury, Total	ND	0.00020	0.00009	U

Form 1
METALS

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2410579-07	**Date Collected**	: 02/26/24 14:45
Client ID	: MW-7S	**Date Received**	: 02/27/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 03/01/24 22:09
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,7470A	**Analyst**	: MJR
Lab File ID	: WG1891167.pdf	**Instrument ID**	: NIC3
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 7470A	**Date Digested**	: 03/01/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7439-97-6	Mercury, Total	ND	0.00020	0.00009	U

Form 1
METALS

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2410579-08	**Date Collected**	: 02/27/24 10:25
Client ID	: MW-8S	**Date Received**	: 02/27/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 03/01/24 21:25
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,7470A	**Analyst**	: MJR
Lab File ID	: WG1891167.pdf	**Instrument ID**	: NIC3
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 7470A	**Date Digested**	: 03/01/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7439-97-6	Mercury, Total	ND	0.00020	0.00009	U

Form 1
METALS

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2410579-09	**Date Collected**	: 02/26/24 00:00
Client ID	: DUP	**Date Received**	: 02/27/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 03/01/24 22:12
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,7470A	**Analyst**	: MJR
Lab File ID	: WG1891167.pdf	**Instrument ID**	: NIC3
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 7470A	**Date Digested**	: 03/01/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7439-97-6	Mercury, Total	ND	0.00020	0.00009	U

Form 1
METALS

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2410579-10	**Date Collected**	: 02/27/24 09:15
Client ID	: EB	**Date Received**	: 02/27/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 03/01/24 22:15
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,7470A	**Analyst**	: MJR
Lab File ID	: WG1891167.pdf	**Instrument ID**	: NIC3
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 7470A	**Date Digested**	: 03/01/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7439-97-6	Mercury, Total	ND	0.00020	0.00009	U

Form 1
METALS

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: WG1891175-1	**Date Collected**	: NA
Client ID	: WG1891175-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 03/01/24 21:18
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,7470A	**Analyst**	: MJR
Lab File ID	: WG1891167.pdf	**Instrument ID**	: NIC3
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 7470A	**Date Digested**	: 03/01/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7439-97-6	Mercury, Total	ND	0.00020	0.00009	U

Form 1
METALS

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2410579-01	**Date Collected**	: 02/26/24 14:10
Client ID	: MW-1S	**Date Received**	: 02/27/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 03/05/24 16:06
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,7470A	**Analyst**	: GMG
Lab File ID	: WG1892219.pdf	**Instrument ID**	: NIC1
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 7470A	**Date Digested**	: 03/02/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7439-97-6	Mercury, Dissolved	0.00017	0.00020	0.00009	J

Form 1
METALS

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2410579-02	**Date Collected**	: 02/26/24 15:25
Client ID	: MW-2S	**Date Received**	: 02/27/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 03/05/24 16:10
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,7470A	**Analyst**	: GMG
Lab File ID	: WG1892219.pdf	**Instrument ID**	: NIC1
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 7470A	**Date Digested**	: 03/02/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7439-97-6	Mercury, Dissolved	ND	0.00020	0.00009	U

Form 1
METALS

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2410579-03	**Date Collected**	: 02/26/24 16:30
Client ID	: MW-3S	**Date Received**	: 02/27/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 03/05/24 16:13
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,7470A	**Analyst**	: GMG
Lab File ID	: WG1892219.pdf	**Instrument ID**	: NIC1
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 7470A	**Date Digested**	: 03/02/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7439-97-6	Mercury, Dissolved	ND	0.00020	0.00009	U

Form 1
METALS

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2410579-04	**Date Collected**	: 02/27/24 09:05
Client ID	: MW-4D	**Date Received**	: 02/27/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 03/05/24 16:16
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,7470A	**Analyst**	: GMG
Lab File ID	: WG1892219.pdf	**Instrument ID**	: NIC1
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 7470A	**Date Digested**	: 03/02/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7439-97-6	Mercury, Dissolved	ND	0.00020	0.00009	U

Form 1
METALS

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2410579-05	**Date Collected**	: 02/27/24 08:40
Client ID	: MW-5S	**Date Received**	: 02/27/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 03/05/24 16:28
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,7470A	**Analyst**	: GMG
Lab File ID	: WG1892219.pdf	**Instrument ID**	: NIC1
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 7470A	**Date Digested**	: 03/02/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7439-97-6	Mercury, Dissolved	0.00009	0.00020	0.00009	J

Form 1
METALS

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2410579-06	**Date Collected**	: 02/26/24 16:35
Client ID	: MW-6D	**Date Received**	: 02/27/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 03/05/24 16:31
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,7470A	**Analyst**	: GMG
Lab File ID	: WG1892219.pdf	**Instrument ID**	: NIC1
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 7470A	**Date Digested**	: 03/02/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7439-97-6	Mercury, Dissolved	ND	0.00020	0.00009	U

Form 1
METALS

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2410579-07	**Date Collected**	: 02/26/24 14:45
Client ID	: MW-7S	**Date Received**	: 02/27/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 03/05/24 16:34
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,7470A	**Analyst**	: GMG
Lab File ID	: WG1892219.pdf	**Instrument ID**	: NIC1
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 7470A	**Date Digested**	: 03/02/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7439-97-6	Mercury, Dissolved	0.00009	0.00020	0.00009	J

Form 1
METALS

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2410579-08	**Date Collected**	: 02/27/24 10:25
Client ID	: MW-8S	**Date Received**	: 02/27/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 03/05/24 15:56
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,7470A	**Analyst**	: GMG
Lab File ID	: WG1892219.pdf	**Instrument ID**	: NIC1
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 7470A	**Date Digested**	: 03/02/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7439-97-6	Mercury, Dissolved	ND	0.00020	0.00009	U

Form 1
METALS

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2410579-09	**Date Collected**	: 02/26/24 00:00
Client ID	: DUP	**Date Received**	: 02/27/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 03/05/24 16:38
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,7470A	**Analyst**	: GMG
Lab File ID	: WG1892219.pdf	**Instrument ID**	: NIC1
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 7470A	**Date Digested**	: 03/02/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7439-97-6	Mercury, Dissolved	ND	0.00020	0.00009	U

Form 1
METALS

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2410579-10	**Date Collected**	: 02/27/24 09:15
Client ID	: EB	**Date Received**	: 02/27/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 03/05/24 16:41
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,7470A	**Analyst**	: GMG
Lab File ID	: WG1892219.pdf	**Instrument ID**	: NIC1
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 7470A	**Date Digested**	: 03/02/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7439-97-6	Mercury, Dissolved	ND	0.00020	0.00009	U

Form 1
METALS

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: WG1891326-1	**Date Collected**	: NA
Client ID	: WG1891326-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 03/05/24 15:50
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,7470A	**Analyst**	: GMG
Lab File ID	: WG1892219.pdf	**Instrument ID**	: NIC1
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 7470A	**Date Digested**	: 03/02/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7439-97-6	Mercury, Dissolved	ND	0.00020	0.00009	U

Form 2A
Initial and Continuing Calibration Verification

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Instrument ID	: NIC3	**Units**	: mg/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :	R1800472-1			R1800472-3			R1800472-5		R1800472-7	
Date Analyzed :	03/01/24 12:04			03/01/24 12:46			03/01/24 13:03		03/01/24 13:30	
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Mercury	0.00300	0.0029	97	0.0050	0.00520	104	0.00530	105	0.00520	104

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	85-115%	(Method 1631)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Methods 200.8, 1631)
	80-120%	(Methods 7470, 7471)

Form 2A
Initial and Continuing Calibration Verification

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Instrument ID	: NIC3	**Units**	: mg/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :				R1800472-9			R1800472-11		R1800472-13	
Date Analyzed :				03/01/24 15:32			03/01/24 16:27		03/01/24 17:22	
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Mercury				0.0050	0.00510	103	0.00510	103	0.00510	101

Acceptance Criteria:

ICV:	**95-105%**	**(Methods 200.7, 245.1)**
	90-110%	**(Methods 200.8, 6010, 6020, 7470, 7471, 7474)**
	85-115%	**(Method 1631)**
CCV:	**90-110%**	**(Methods 200.7, 245.1, 6010, 6020, 7474)**
	85-115%	**(Methods 200.8, 1631)**
	80-120%	**(Methods 7470, 7471)**

Form 2A
Initial and Continuing Calibration Verification

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Instrument ID	: NIC3	**Units**	: mg/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :				R1800472-15			R1800472-17		R1800472-19	
Date Analyzed :				03/01/24 19:00			03/01/24 20:43		03/01/24 21:45	
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Mercury				**0.0050**	**0.00530**	**105**	**0.00570**	**113**	**0.00510**	**101**

Acceptance Criteria:

ICV:	**95-105%**	**(Methods 200.7, 245.1)**
	90-110%	**(Methods 200.8, 6010, 6020, 7470, 7471, 7474)**
	85-115%	**(Method 1631)**
CCV:	**90-110%**	**(Methods 200.7, 245.1, 6010, 6020, 7474)**
	85-115%	**(Methods 200.8, 1631)**
	80-120%	**(Methods 7470, 7471)**

Form 2A
Initial and Continuing Calibration Verification

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Instrument ID	: NIC3	**Units**	: mg/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :				R1800472-21						
Date Analyzed :				03/01/24 22:30						
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Mercury				0.0050	0.00500	100				

Acceptance Criteria:

ICV:	**95-105%**	**(Methods 200.7, 245.1)**
	90-110%	**(Methods 200.8, 6010, 6020, 7470, 7471, 7474)**
	85-115%	**(Method 1631)**
CCV:	**90-110%**	**(Methods 200.7, 245.1, 6010, 6020, 7474)**
	85-115%	**(Methods 200.8, 1631)**
	80-120%	**(Methods 7470, 7471)**

Form 2A
Initial and Continuing Calibration Verification

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Instrument ID	: NIC1	**Units**	: mg/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :	R1801515-1			R1801515-3			R1801515-5		R1801515-7	
Date Analyzed :	03/05/24 08:11			03/05/24 09:05			03/05/24 10:32		03/05/24 12:06	
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Mercury	0.00300	0.0030	99	0.0050	0.00500	101	0.00520	104	0.00510	103

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	85-115%	(Method 1631)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Methods 200.8, 1631)
	80-120%	(Methods 7470, 7471)

Form 2A
Initial and Continuing Calibration Verification

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Instrument ID	: NIC1	**Units**	: mg/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :				R1801515-9			R1801515-11		R1801515-13	
Date Analyzed :				03/05/24 12:46			03/05/24 13:30		03/05/24 14:32	
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Mercury				0.0050	0.00510	103	0.00520	103	0.00510	103

Acceptance Criteria:

ICV:	**95-105%**	**(Methods 200.7, 245.1)**
	90-110%	**(Methods 200.8, 6010, 6020, 7470, 7471, 7474)**
	85-115%	**(Method 1631)**
CCV:	**90-110%**	**(Methods 200.7, 245.1, 6010, 6020, 7474)**
	85-115%	**(Methods 200.8, 1631)**
	80-120%	**(Methods 7470, 7471)**

Form 2A
Initial and Continuing Calibration Verification

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Instrument ID	: NIC1	**Units**	: mg/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :				R1801515-15			R1801515-17		R1801515-19	
Date Analyzed :				03/05/24 15:18			03/05/24 16:19		03/05/24 17:01	
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Mercury				0.0050	0.00510	102	0.00510	102	0.00510	103

Acceptance Criteria:

ICV:	**95-105%**	**(Methods 200.7, 245.1)**
	90-110%	**(Methods 200.8, 6010, 6020, 7470, 7471, 7474)**
	85-115%	**(Method 1631)**
CCV:	**90-110%**	**(Methods 200.7, 245.1, 6010, 6020, 7474)**
	85-115%	**(Methods 200.8, 1631)**
	80-120%	**(Methods 7470, 7471)**

Form 3
Blanks

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Instrument ID	: NIC3		

	Initial Calibration Blank	Continuing Calibration Blank(s)			Preparation Blank
Lab ID :	R1800472-2	R1800472-4	R1800472-6	R1800472-8	WG1891175-1
Date Analyzed :	03/01/24 12:07	03/01/24 12:50	03/01/24 13:10	03/01/24 13:33	03/01/24 21:18
Parameter	mg/l Q	mg/l Q	mg/l Q	mg/l Q	mg/l Q
Mercury	0.0000915 U	0.0000915 U	0.0000915 U	0.0000915 U	0.00009 U

Form 3
Blanks

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Instrument ID	: NIC3		

	Initial Calibration Blank	Continuing Calibration Blank(s)						Preparation Blank	
Lab ID :		R1800472-10		R1800472-12		R1800472-14			
Date Analyzed :		03/01/24 15:57		03/01/24 16:46		03/01/24 17:36			
Parameter	mg/l Q	mg/l	Q	mg/l	Q	mg/l	Q		Q
Mercury		0.0000915	U	0.0000915	U	0.0000915	U		

Form 3
Blanks

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Instrument ID	: NIC3		

	Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID :			R1800472-16		R1800472-18		R1800472-20			
Date Analyzed :			03/01/24 20:06		03/01/24 20:53		03/01/24 21:55			
Parameter	mg/l	Q	mg/l	Q	mg/l	Q	mg/l	Q		Q
Mercury			0.0000915	U	0.0000915	U	0.0000915	U		

Form 3
Blanks

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Instrument ID	: NIC3		

	Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID :			R1800472-22							
Date Analyzed :			03/01/24 23:38							
Parameter	mg/l	Q	mg/l	Q	mg/l	Q	mg/l	Q		Q
Mercury			0.0000915	U						

Form 3
Blanks

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Instrument ID	: NIC1		

	Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID :	R1801515-2		R1801515-4		R1801515-6		R1801515-8		WG1891326-1	
Date Analyzed :	03/05/24 08:14		03/05/24 09:18		03/05/24 10:36		03/05/24 12:09		03/05/24 15:50	
Parameter	mg/l	Q	mg/l	Q	mg/l	Q	mg/l	Q	mg/l	Q
Mercury	0.0000915	U	0.0000915	U	0.0000915	U	0.0000915	U	0.00009	U

Form 3
Blanks

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Instrument ID	: NIC1		

	Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID :			R1801515-10		R1801515-12		R1801515-14			
Date Analyzed :			03/05/24 12:52		03/05/24 13:35		03/05/24 14:41			
Parameter	mg/l	Q	mg/l	Q	mg/l	Q	mg/l	Q		Q
Mercury			0.0000915	U	0.0000915	U	0.0000915	U		

Form 3
Blanks

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Instrument ID	: NIC1		

	Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID :			R1801515-16		R1801515-18		R1801515-20			
Date Analyzed :			03/05/24 15:21		03/05/24 16:23		03/05/24 17:06			
Parameter	mg/l	Q	mg/l	Q	mg/l	Q	mg/l	Q		Q
Mercury			0.0000915	U	0.0000915	U	0.0000915	U		

Form 5a
Matrix Spike

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Client Sample ID	: MW-8S	**Matrix**	: WATER
Lab Sample ID	: L2410579-08		
Matrix Spike	: WG1891175-3	**MS Analysis Date**	: 03/01/24 21:28
Matrix Spike Dup	: WG1891175-4	**MSD Analysis Date**	: 03/01/24 21:32

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	Sample Conc. (mg/l)	Spike Added (mg/l)	Spike Conc. (mg/l)	%R	Spike Added (mg/l)	Spike Conc. (mg/l)	%R	RPD	Recovery Limits	RPD Limit
Mercury, Total	ND	0.005	0.00491	98	0.005	0.00476	95	3	75-125	20

Form 5a
Matrix Spike

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Client Sample ID	: MW-8S	**Matrix**	: WATER
Lab Sample ID	: L2410579-08		
Matrix Spike	: WG1891326-3	**MS Analysis Date**	: 03/05/24 16:00
Matrix Spike Dup	: WG1891326-4	**MSD Analysis Date**	: 03/05/24 16:03

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	Sample Conc. (mg/l)	Spike Added (mg/l)	Spike Conc. (mg/l)	%R	Spike Added (mg/l)	Spike Conc. (mg/l)	%R	RPD	Recovery Limits	RPD Limit
Mercury, Dissolved	ND	0.005	0.00489	98	0.005	0.00508	102	4	75-125	20

Form 7
Laboratory Control Sample

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: WG1891175-2	**LCS Analysis Date**	: 03/01/24 21:22
Dup Sample ID	:	**LCSD Analysis Date**	:

	Laboratory Control Sample			Laboratory Control Duplicate					
	True	Found	%R	True	Found	%R	RPD	Recovery	RPD
Parameter	(mg/l)	(mg/l)		(mg/l)	(mg/l)			Limits	Limit
Mercury, Total	0.00100	0.00102	103.					80-120	20

Form 7
Laboratory Control Sample

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: WG1891326-2	**LCS Analysis Date**	: 03/05/24 15:53
Dup Sample ID	:	**LCSD Analysis Date**	:

	Laboratory Control Sample			Laboratory Control Duplicate					
	True	Found	%R	True	Found	%R	RPD	Recovery	RPD
Parameter	(mg/l)	(mg/l)		(mg/l)	(mg/l)			Limits	Limit
Mercury, Dissolved	0.00100	0.000860	86.					80-120	20

Form 12
Preparation Log

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Matrix	: WATER	**Prep Method**	: EPA 7470A

Sample Number	Preparation Date	Weight (gram)	Volume (mL)
L2410579-01	03/01/24 13:48	-	25
L2410579-02	03/01/24 13:48	-	25
L2410579-03	03/01/24 13:48	-	25
L2410579-04	03/01/24 13:48	-	25
L2410579-05	03/01/24 13:48	-	25
L2410579-06	03/01/24 13:48	-	25
L2410579-07	03/01/24 13:48	-	25
L2410579-08	03/01/24 13:48	-	25
L2410579-09	03/01/24 13:48	-	25
L2410579-10	03/01/24 13:48	-	25
WG1891175-1	03/01/24 13:48	-	25
WG1891175-2	03/01/24 13:48	-	25
WG1891175-3	03/01/24 13:48	-	25
WG1891175-4	03/01/24 13:48	-	25

Form 12
Preparation Log

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Matrix	: WATER	**Prep Method**	: EPA 7470A

Sample Number	Preparation Date	Weight (gram)	Volume (mL)
L2410579-01	03/02/24 00:45	-	25
L2410579-02	03/02/24 00:45	-	25
L2410579-03	03/02/24 00:45	-	25
L2410579-04	03/02/24 00:45	-	25
L2410579-05	03/02/24 00:45	-	25
L2410579-06	03/02/24 00:45	-	25
L2410579-07	03/02/24 00:45	-	25
L2410579-08	03/02/24 00:45	-	25
L2410579-09	03/02/24 00:45	-	25
L2410579-10	03/02/24 00:45	-	25
WG1891326-1	03/02/24 00:45	-	25
WG1891326-2	03/02/24 00:45	-	25
WG1891326-3	03/02/24 00:45	-	25
WG1891326-4	03/02/24 00:45	-	25

Form 13
Analysis Run Log

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Instrument ID	: NIC3	**Analysis Method**	: 1,7470A
Start Date	: 03/01/24 12:04	**End Date**	: 03/01/24 23:38

Sample Number	Dilution Factor	Analysis Time	Mercury, Total
R1800472-1 ICV	1	12:04:35	X
R1800472-2 ICB	1	12:07:53	X
R1800472-3 CCV	1	12:46:34	X
R1800472-4 CCB	1	12:50:14	X
R1800472-5 CCV	1	13:03:28	X
R1800472-6 CCB	1	13:10:29	X
R1800472-7 CCV	1	13:30:37	X
R1800472-8 CCB	1	13:33:55	X
R1800472-9 CCV	1	15:32:23	X
R1800472-10 CCB	1	15:57:57	X
R1800472-11 CCV	1	16:27:41	X
R1800472-12 CCB	1	16:46:18	X
R1800472-13 CCV	1	17:22:39	X
R1800472-14 CCB	1	17:36:09	X
R1800472-15 CCV	1	19:00:39	X
R1800472-16 CCB	1	20:06:47	X
R1800472-17 CCV	1	20:43:06	X
R1800472-18 CCB	1	20:53:29	X
WG1891175-1 BLANK	1	21:18:54	X
WG1891175-2 LCS	1	21:22:12	X
L2410579-08	1	21:25:31	X
WG1891175-3 MS	1	21:28:50	X
WG1891175-4 MSD	1	21:32:09	X
L2410579-01	1	21:35:28	X
L2410579-02	1	21:38:46	X
L2410579-03	1	21:42:05	X
R1800472-19 CCV	1	21:45:24	X

Form 13
Analysis Run Log

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Instrument ID	: NIC3	**Analysis Method**	: 1,7470A
Start Date	: 03/01/24 12:04	**End Date**	: 03/01/24 23:38

Sample Number	Dilution Factor	Analysis Time	Mercury, Total
R1800472-20 CCB	1	21:55:45	X
L2410579-04	1	21:59:03	X
L2410579-05	1	22:02:22	X
L2410579-06	1	22:05:41	X
L2410579-07	1	22:09:00	X
L2410579-09	1	22:12:19	X
L2410579-10	1	22:15:37	X
R1800472-21 CCV	1	22:30:44	X
R1800472-22 CCB	1	23:38:27	X

Form 13
Analysis Run Log

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Instrument ID	: NIC1	**Analysis Method**	: 1,7470A
Start Date	: 03/05/24 08:11	**End Date**	: 03/05/24 17:06

Sample Number	Dilution Factor	Analysis Time	Mercury, Dissolved
R1801515-1 ICV	1	08:11:40	X
R1801515-2 ICB	1	08:14:58	X
R1801515-3 CCV	1	09:05:15	X
R1801515-4 CCB	1	09:18:25	X
R1801515-5 CCV	1	10:32:47	X
R1801515-6 CCB	1	10:36:53	X
R1801515-7 CCV	1	12:06:41	X
R1801515-8 CCB	1	12:09:59	X
R1801515-9 CCV	1	12:46:17	X
R1801515-10 CCB	1	12:52:15	X
R1801515-11 CCV	1	13:30:56	X
R1801515-12 CCB	1	13:35:58	X
R1801515-13 CCV	1	14:32:16	X
R1801515-14 CCB	1	14:41:41	X
R1801515-15 CCV	1	15:18:07	X
R1801515-16 CCB	1	15:21:26	X
WG1891326-1 BLANK	1	15:50:10	X
WG1891326-2 LCS	1	15:53:28	X
L2410579-08	1	15:56:47	X
WG1891326-3 MS	1	16:00:04	X
WG1891326-4 MSD	1	16:03:23	X
L2410579-01	1	16:06:42	X
L2410579-02	1	16:10:00	X
L2410579-03	1	16:13:19	X
L2410579-04	1	16:16:37	X
R1801515-17 CCV	1	16:19:56	X
R1801515-18 CCB	1	16:23:14	X

Form 13
Analysis Run Log

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Instrument ID	: NIC1	**Analysis Method**	: 1,7470A
Start Date	: 03/05/24 08:11	**End Date**	: 03/05/24 17:06

Sample Number	Dilution Factor	Analysis Time	Mercury, Dissolved
L2410579-05	1	16:28:17	X
L2410579-06	1	16:31:35	X
L2410579-07	1	16:34:54	X
L2410579-09	1	16:38:12	X
L2410579-10	1	16:41:30	X
R1801515-19 CCV	1	17:01:20	X
R1801515-20 CCB	1	17:06:38	X

Date Created: 03/19/18
Created By: Jason Hebert
File: PM4631-1
Page: 1

MERCURY by 7470A, 245.1 (WATER)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria	Holding Time	Container/Sample Preservation
Mercury, Total	7439-97-6	0.0002	0.0000915	mg/l	80-120	20	75-125	20	20		28 days	1 - Plastic 500ml HNO3 preserved

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. ***(Soil/Solids only)***
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

Date Created: 01/22/21
Created By: Jason Hebert
File: PM9836-1
Page: 1

METALS by 7470A (WATER)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria	Holding Time	Container/Sample Preservation
Mercury, Total	7439-97-6	0.0002	0.0000915	mg/l	80-120		75-125	20	20		28 days	1 - Plastic 500ml HNO3 preserved

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

Date Created: 01/22/21
Created By: Jason Hebert
File: PM9837-1
Page: 1

METALS by 7471B (SOIL)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria	Holding Time	Container/Sample Preservation
Mercury, Total	7439-97-6	0.08	0.05216	mg/kg	72-128		80-120	20	20		28 days	Metals Only-Glass 60mL/2oz unpreserv

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

Title :
Date : 03/01/2024
Name :

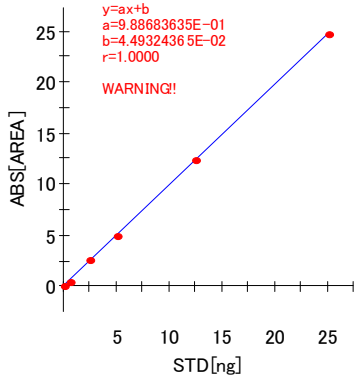
Method

STD
HONH3Cl : 0.0mL
(1+1)H2SO4 : 0.0mL
10w/v% SnCl2 : 0.3mL

SMP
HONH3Cl : 0.0mL
(1+1)H2SO4 : 0.0mL
10w/v% SnCl2 : 0.3mL

Measurement Time(sec) : 120sec

Calib



STD

No.	STD [ug/L]	SVOL [mL]	CVOL [mL]	DVOL [mL]	STD [ng]	AREA [ON]	MEAS [ng]	Dev [%]	M. TIME	Note
1	0.000	2.500	2.500	2.500	0.000	0.0734	0.0288	-	03/01/2024 11:44	MJR,NIC3
2	0.200	2.500	2.500	2.500	0.500	0.5496	0.5104	2.1	03/01/2024 11:48	MJR,NIC3
3	1.000	2.500	2.500	2.500	2.500	2.5544	2.5382	1.5	03/01/2024 11:51	MJR,NIC3
4	2.000	2.500	2.500	2.500	5.000	4.9020	4.9127	1.7	03/01/2024 11:54	MJR,NIC3
5	5.000	2.500	2.500	2.500	12.500	12.3965	12.4929	0.1	03/01/2024 11:57	MJR,NIC3
6	10.000	2.500	2.500	2.500	25.000	24.7788	25.0170	0.1	03/01/2024 12:01	MJR,NIC3

SMP

No.	NAME	SVOL [mL]	CVOL [mL]	DVOL [mL]	AREA [ON]	MEAS [ng]	CONC [ug/L]	Recovery [%]	M. TIME	Note
1	ICV	2.500	2.500	2.500	7.2397	7.2771	2.911	-	03/01/2024 12:04	MJR,NIC3
2	ICB	2.500	2.500	2.500	0.0862	0.0417	0.017	-	03/01/2024 12:07	MJR,NIC3
3	0.2PPB	2.500	2.500	2.500	0.5730	0.5341	0.214	-	03/01/2024 12:11	MJR,NIC3
4	WG1890484-1 WG1890484	2.500	2.500	2.500	0.1300	0.0860	0.034	-	03/01/2024 12:16	MJR,NIC3
5	WG1890484-2 WG1890484	2.500	2.500	2.500	2.6307	2.6154	1.046	-	03/01/2024 12:20	MJR,NIC3
6	L2410048-01 WG1890484	2.500	2.500	2.500	0.1556	0.1119	0.045	-	03/01/2024 12:23	MJR,NIC3

NIC NIPPON INSTRUMENTS CORPORATION

No.	NAME	SVOL [mL]	CVOL [mL]	DVOL [mL]	AREA [ON]	MEAS [ng]	CONC [ug/L]	Recovery [%]	M. TIME	Note
7	WG1890484-3 WG1890484	2.500	2.500	2.500	12.5547	12.6530	5.061	-	03/01/2024 12:26	MJR,NIC3
8	WG1890484-4 WG1890484	2.500	2.500	2.500	0.1919	0.1486	0.059	-	03/01/2024 12:30	MJR,NIC3
9	L2410056-01 WG1890484	2.500	2.500	2.500	0.2650	0.2226	0.089	-	03/01/2024 12:33	MJR,NIC3
10	L2410005-01 WG1890669	2.500	2.500	2.500	0.2275	0.1847	0.074	-	03/01/2024 12:36	MJR,NIC3
11	L2410034-01 WG1890669	2.500	2.500	2.500	0.2800	0.2378	0.095	-	03/01/2024 12:39	MJR,NIC3
12	L2410039-01 WG1890669	2.500	2.500	2.500	0.2760	0.2337	0.093	-	03/01/2024 12:43	MJR,NIC3
13	Check STD(5ug/L)	2.500	2.500	2.500	12.9466	13.0493	5.220	104.4	03/01/2024 12:46	MJR,NIC3
14	Check Blank	2.500	2.500	2.500	0.0958	0.0514	0.021	-	03/01/2024 12:50	MJR,NIC3
15	L2410042-01 WG1890669	2.500	2.500	2.500	0.2754	0.2331	0.093	-	03/01/2024 12:53	MJR,NIC3
16	L2410047-01 WG1890669	2.500	2.500	2.500	0.2322	0.1894	0.076	-	03/01/2024 12:56	MJR,NIC3
17	L2410272-02 WG1890669	2.500	2.500	2.500	0.3300	0.2883	0.115	-	03/01/2024 13:00	MJR,NIC3
18	Check STD(5ug/L)	2.500	2.500	2.500	13.0295	13.1332	5.253	105.1	03/01/2024 13:03	MJR,NIC3
19	Check Blank	2.500	2.500	2.500	0.0904	0.0460	0.018	-	03/01/2024 13:10	MJR,NIC3
20	WG1891051-1 WG1891051	2.500	2.500	2.500	0.1028	0.0585	0.023	-	03/01/2024 13:14	MJR,NIC3
21	WG1891051-2 WG1891051	2.500	2.500	2.500	2.5358	2.5194	1.008	-	03/01/2024 13:17	MJR,NIC3
22	I2410218-01 WG1891051	2.500	2.500	2.500	0.1133	0.0692	0.028	-	03/01/2024 13:20	MJR,NIC3
23	WG1891051-3 WG1891051	2.500	2.500	2.500	12.6799	12.7796	5.112	-	03/01/2024 13:24	MJR,NIC3
24	WG1891051-4 WG1891051	2.500	2.500	2.500	0.1355	0.0916	0.037	-	03/01/2024 13:27	MJR,NIC3
25	Check STD(5ug/L)	2.500	2.500	2.500	12.9317	13.0343	5.214	104.3	03/01/2024 13:30	MJR,NIC3
26	Check Blank	2.500	2.500	2.500	0.0955	0.0511	0.020	-	03/01/2024 13:33	MJR,NIC3
27	Check STD(5ug/L)	2.500	2.500	2.500	12.7584	12.8590	5.144	102.9	03/01/2024 15:32	DJR,NIC3
28	Check Blank	2.500	2.500	2.500	0.0455	0.0006	0.000	-	03/01/2024 15:57	DJR,NIC3
29	WG1890758-1 WG1890758	2.500	2.500	2.500	0.0893	0.0449	0.018	-	03/01/2024 16:01	DJR,NIC3
30	WG1890758-2 WG1890758	2.500	2.500	2.500	2.4791	2.4620	0.985	-	03/01/2024 16:04	DJR,NIC3
31	L2410277-03 WG1890758	2.500	2.500	2.500	0.0895	0.0451	0.018	-	03/01/2024 16:07	DJR,NIC3
32	WG1890758-3 WG1890758	2.500	2.500	2.500	12.6990	12.7989	5.120	-	03/01/2024 16:11	DJR,NIC3
33	WG1890758-4 WG1890758	2.500	2.500	2.500	12.6112	12.7101	5.084	-	03/01/2024 16:14	DJR,NIC3
34	L2410119-01 WG1890758	2.500	2.500	2.500	0.0873	0.0429	0.017	-	03/01/2024 16:17	666666
35	L2410119-02 WG1890758	2.500	2.500	2.500	0.0931	0.0487	0.019	-	03/01/2024 16:21	DJR,NIC3
36	L2410119-03 WG1890758	2.500	2.500	2.500	0.1199	0.0758	0.030	-	03/01/2024 16:24	DJR,NIC3
37	Check STD(5ug/L)	2.500	2.500	2.500	12.7179	12.8180	5.127	102.5	03/01/2024 16:27	DJR,NIC3
38	Check Blank	2.500	2.500	2.500	0.0948	0.0504	0.020	-	03/01/2024 16:46	DJR,NIC3

NIC NIPPON INSTRUMENTS CORPORATION

No.	NAME	SVOL [mL]	CVOL [mL]	DVOL [mL]	AREA [ON]	MEAS [ng]	CONC [ug/L]	Recovery [%]	M. TIME	Note
39	L2410277-01 WG1890758	2.500	2.500	2.500	0.0991	0.0548	0.022	-	03/01/2024 16:49	DJR,NIC3
40	L2410277-02 WG1890758	2.500	2.500	2.500	0.1139	0.0698	0.028	-	03/01/2024 16:52	DJR,NIC3
41	L2410277-04 WG1890758	2.500	2.500	2.500	0.1261	0.0821	0.033	-	03/01/2024 16:56	DJR,NIC3
42	L2410277-05 WG1890758	2.500	2.500	2.500	0.2433	0.2006	0.080	-	03/01/2024 16:59	DJR,NIC3
43	L2410277-06 WG1890758	2.500	2.500	2.500	0.1167	0.0726	0.029	-	03/01/2024 17:02	DJR,NIC3
44	L2410277-07 WG1890758	2.500	2.500	2.500	0.1351	0.0912	0.036	-	03/01/2024 17:06	DJR,NIC3
45	L2410277-08 WG1890758	2.500	2.500	2.500	0.1539	0.1102	0.044	-	03/01/2024 17:09	DJR,NIC3
46	L2410277-09 WG1890758	2.500	2.500	2.500	0.1248	0.0808	0.032	-	03/01/2024 17:12	DJR,NIC3
47	L2410277-11 WG1890758	2.500	2.500	2.500	1.4905	1.4621	0.585	-	03/01/2024 17:16	DJR,NIC3
48	L2410277-12 WG1890758	2.500	2.500	2.500	0.1381	0.0942	0.038	-	03/01/2024 17:19	DJR,NIC3
49	Check STD(5ug/L)	2.500	2.500	2.500	12.5663	12.6647	5.066	101.3	03/01/2024 17:22	DJR,NIC3
50	Check Blank	2.500	2.500	2.500	0.0937	0.0493	0.020	-	03/01/2024 17:36	DJR,NIC3
51	XWG1890468-1 WG1890468	2.500	2.500	2.500	0.3071	0.2652	0.106	-	03/01/2024 18:27	DJR,NIC3
52	XWG1890468-2 WG1890468	2.500	2.500	2.500	3.2257	3.2172	1.287	-	03/01/2024 18:30	DJR,NIC3
53	XL2410258-02 WG1890468	2.500	2.500	2.500	1.0005	0.9665	0.387	-	03/01/2024 18:34	DJR,NIC3
54	XWG1890468-3 WG1890468	2.500	2.500	2.500	12.9297	13.0322	5.213	-	03/01/2024 18:37	DJR,NIC3
55	XWG1890468-4 WG1890468	2.500	2.500	2.500	0.4010	0.3601	0.144	-	03/01/2024 18:40	DJR,NIC3
56	XL2410258-01 WG1890468	2.500	2.500	2.500	0.3435	0.3020	0.121	-	03/01/2024 18:44	DJR,NIC3
57	XL2410258-03 WG1890468	2.500	2.500	2.500	0.2769	0.2346	0.094	-	03/01/2024 18:47	DJR,NIC3
58	XL2410258-04 WG1890468	2.500	2.500	2.500	0.1673	0.1238	0.050	-	03/01/2024 18:50	DJR,NIC3
59	XL2410258-05 WG1890468	2.500	2.500	2.500	0.1976	0.1544	0.062	-	03/01/2024 18:54	DJR,NIC3
60	XL2410258-06 WG1890468	2.500	2.500	2.500	0.2462	0.2036	0.081	-	03/01/2024 18:57	DJR,NIC3
61	Check STD(5ug/L)	2.500	2.500	2.500	13.0268	13.1305	5.252	105.0	03/01/2024 19:00	DJR,NIC3
62	Check Blank	2.500	2.500	2.500	0.0946	0.0502	0.020	-	03/01/2024 20:06	DJR,NIC3
63	XL2410258-07 WG1890468	2.500	2.500	2.500	0.2506	0.2080	0.083	-	03/01/2024 20:10	DJR,NIC3
64	XL2410258-08 WG1890468	2.500	2.500	2.500	0.2056	0.1625	0.065	-	03/01/2024 20:13	DJR,NIC3
65	XL2410258-09 WG1890468	2.500	2.500	2.500	0.1828	0.1394	0.056	-	03/01/2024 20:16	DJR,NIC3
66	XL2410258-10 WG1890468	2.500	2.500	2.500	0.2105	0.1675	0.067	-	03/01/2024 20:20	DJR,NIC3
67	XL2410258-11 WG1890468	2.500	2.500	2.500	0.2147	0.1717	0.069	-	03/01/2024 20:23	DJR,NIC3
68	XL2410258-12 WG1890468	2.500	2.500	2.500	0.2102	0.1672	0.067	-	03/01/2024 20:26	DJR,NIC3
69	XL2410258-13 WG1890468	2.500	2.500	2.500	0.1896	0.1463	0.059	-	03/01/2024 20:29	DJR,NIC3
70	XL2410258-14 WG1890468	2.500	2.500	2.500	0.1951	0.1519	0.061	-	03/01/2024 20:33	DJR,NIC3

No.	NAME	SVOL [mL]	CVOL [mL]	DVOL [mL]	AREA [ON]	MEAS [ng]	CONC [ug/L]	Recovery [%]	M. TIME	Note
71	XL2410258-15 WG1890468	2.500	2.500	2.500	0.3557	0.3143	0.126	-	03/01/2024 20:36	DJR,NIC3
72	XL2410258-16 WG1890468	2.500	2.500	2.500	0.2947	0.2526	0.101	-	03/01/2024 20:39	DJR,NIC3
73	Check STD(5ug/L)	2.500	2.500	2.500	14.0511	14.1665	5.667	113.3	03/01/2024 20:43	DJR,NIC3
74	Check Blank	2.500	2.500	2.500	0.1585	0.1149	0.046	-	03/01/2024 20:53	DJR,NIC3
75	XCheck STD(5ug/L)	2.500	2.500	2.500	10.3006	10.3731	4.149	-	03/01/2024 20:56	DJR,NIC3
76	XCheck Blank	2.500	2.500	2.500	0.0806	0.0361	0.014	-	03/01/2024 21:15	DJR,NIC3
77	WG1891175-1 WG1891175	2.500	2.500	2.500	0.0911	0.0467	0.019	-	03/01/2024 21:18	DJR,NIC3
78	WG1891175-2 WG1891175	2.500	2.500	2.500	2.5837	2.5678	1.027	-	03/01/2024 21:22	DJR,NIC3
79	L2410579-08 WG1891175	2.500	2.500	2.500	0.0855	0.0410	0.016	-	03/01/2024 21:25	DJR,NIC3
80	WG1891175-3 WG1891175	2.500	2.500	2.500	12.1908	12.2849	4.914	-	03/01/2024 21:28	DJR,NIC3
81	WG1891175-4 WG1891175	2.500	2.500	2.500	11.8278	11.9177	4.767	-	03/01/2024 21:32	DJR,NIC3
82	L2410579-01 WG1891175	2.500	2.500	2.500	0.0857	0.0412	0.016	-	03/01/2024 21:35	DJR,NIC3
83	L2410579-02 WG1891175	2.500	2.500	2.500	0.0928	0.0484	0.019	-	03/01/2024 21:38	DJR,NIC3
84	L2410579-03 WG1891175	2.500	2.500	2.500	0.0717	0.0271	0.011	-	03/01/2024 21:42	DJR,NIC3
85	Check STD(5ug/L)	2.500	2.500	2.500	12.5567	12.6550	5.062	101.2	03/01/2024 21:45	DJR,NIC3
86	Check Blank	2.500	2.500	2.500	0.0953	0.0509	0.020	-	03/01/2024 21:55	DJR,NIC3
87	L2410579-04 WG1891175	2.500	2.500	2.500	0.0795	0.0350	0.014	-	03/01/2024 21:59	DJR,NIC3
88	L2410579-05 WG1891175	2.500	2.500	2.500	0.0906	0.0462	0.018	-	03/01/2024 22:02	DJR,NIC3
89	L2410579-06 WG1891175	2.500	2.500	2.500	0.0987	0.0544	0.022	-	03/01/2024 22:05	DJR,NIC3
90	L2410579-07 WG1891175	2.500	2.500	2.500	0.1004	0.0561	0.022	-	03/01/2024 22:09	DJR,NIC3
91	L2410579-09 WG1891175	2.500	2.500	2.500	0.0963	0.0520	0.021	-	03/01/2024 22:12	DJR,NIC3
92	L2410579-10 WG1891175	2.500	2.500	2.500	0.0784	0.0339	0.014	-	03/01/2024 22:15	DJR,NIC3
93	L2410744-01 WG1891175	2.500	2.500	2.500	0.0768	0.0322	0.013	-	03/01/2024 22:18	DJR,NIC3
94	L2410744-02 WG1891175	2.500	2.500	2.500	0.1002	0.0559	0.022	-	03/01/2024 22:22	DJR,NIC3
95	L2410744-03 WG1891175	2.500	2.500	2.500	0.0968	0.0525	0.021	-	03/01/2024 22:25	DJR,NIC3
96	Check STD(5ug/L)	2.500	2.500	2.500	12.3844	12.4807	4.992	99.8	03/01/2024 22:30	DJR,NIC3
97	Check Blank	2.500	2.500	2.500	0.0958	0.0514	0.021	-	03/01/2024 23:38	DJR,NIC3
98	WG1890910-1 WG1890910	2.500	2.500	2.500	0.1049	0.0607	0.024	-	03/01/2024 23:41	DJR,NIC3
99	WG1890910-2 WG1890910	2.500	2.500	2.500	2.5198	2.5032	1.001	-	03/01/2024 23:45	DJR,NIC3
100	I2410566-02 WG1890910	2.500	2.500	2.500	0.0864	0.0419	0.017	-	03/01/2024 23:48	DJR,NIC3
101	WG1890910-3 WG1890910	2.500	2.500	2.500	12.2633	12.3582	4.943	-	03/01/2024 23:51	DJR,NIC3
102	WG1890910-4 WG1890910	2.500	2.500	2.500	0.0900	0.0456	0.018	-	03/01/2024 23:54	DJR,NIC3

NIC NIPPON INSTRUMENTS CORPORATION

No.	NAME	SVOL [mL]	CVOL [mL]	DVOL [mL]	AREA [ON]	MEAS [ng]	CONC [ug/L]	Recovery [%]	M. TIME	Note
103	I2410566-01 WG1890910	2.500	2.500	2.500	0.2388	0.1961	0.078	-	03/01/2024 23:58	DJR,NIC3
104	WG1891067-1 WG1891067	2.500	2.500	2.500	0.0939	0.0495	0.020	-	03/02/2024 00:01	DJR,NIC3
105	WG1891067-2 WG1891067	2.500	2.500	2.500	2.5165	2.4999	1.000	-	03/02/2024 00:04	DJR,NIC3
106	L2410341-01 WG1891067	2.500	2.500	2.500	0.0728	0.0282	0.011	-	03/02/2024 00:08	DJR,NIC3
107	WG1891067-3 WG1891067	2.500	2.500	2.500	12.2409	12.3356	4.934	-	03/02/2024 00:11	DJR,NIC3
108	Check STD(5ug/L)	2.500	2.500	2.500	12.6014	12.7002	5.080	101.6	03/02/2024 00:14	DJR,NIC3
109	Check Blank	2.500	2.500	2.500	0.0931	0.0487	0.019	-	03/02/2024 00:18	DJR,NIC3
110	WG1891067-4 WG1891067	2.500	2.500	2.500	0.0808	0.0363	0.015	-	03/02/2024 00:21	DJR,NIC3
111	L2410341-02 WG1891067	2.500	2.500	2.500	0.0854	0.0409	0.016	-	03/02/2024 00:24	DJR,NIC3
112	L2410426-07 WG1891067	2.500	2.500	2.500	0.1172	0.0731	0.029	-	03/02/2024 00:28	DJR,NIC3
113	Check STD(5ug/L)	2.500	2.500	2.500	12.2879	12.3831	4.953	99.1	03/02/2024 00:31	DJR,NIC3
114	Check Blank	2.500	2.500	2.500	0.0813	0.0368	0.015	-	03/02/2024 00:34	DJR,NIC3

Title :
Date : 3/5/2024
Name :

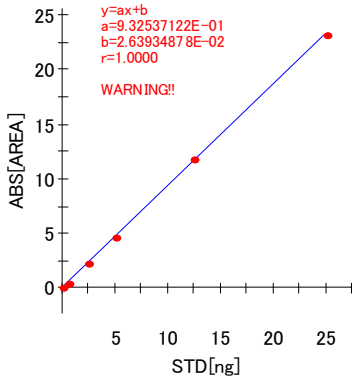
Method

STD
HONH3Cl : 0.0mL
(1+1)H2SO4 : 0.0mL
10w/v% SnCl2 : 0.3mL

SMP
HONH3Cl : 0.0mL
(1+1)H2SO4 : 0.0mL
10w/v% SnCl2 : 0.3mL

Measurement Time(sec) : 120sec

Calib



STD

No.	STD [ug/L]	SVOL [mL]	CVOL [mL]	DVOL [mL]	STD [ng]	AREA [ON]	MEAS [ng]	Dev [%]	M. TIME	Note
1	0.000	2.500	2.500	2.500	0.000	0.0339	0.0080	-	03/05/2024 07:49	GMG,NIC1
2	0.200	2.500	2.500	2.500	0.500	0.4739	0.4799	4.0	03/05/2024 07:52	GMG,NIC1
3	1.000	2.500	2.500	2.500	2.500	2.2769	2.4133	3.5	03/05/2024 07:55	GMG,NIC1
4	2.000	2.500	2.500	2.500	5.000	4.6990	5.0106	0.2	03/05/2024 07:59	GMG,NIC1
5	5.000	2.500	2.500	2.500	12.500	11.8345	12.6623	1.3	03/05/2024 08:02	GMG,NIC1
6	10.000	2.500	2.500	2.500	25.000	23.2706	24.9258	0.3	03/05/2024 08:05	GMG,NIC1

SMP

No.	NAME	SVOL [mL]	CVOL [mL]	DVOL [mL]	AREA [ON]	MEAS [ng]	CONC [ug/L]	Recovery [%]	M. TIME	Note
1	ICV	2.500	2.500	2.500	6.9314	7.4045	2.962	-	03/05/2024 08:11	GMG,NIC1
2	ICB	2.500	2.500	2.500	0.0378	0.0122	0.005	-	03/05/2024 08:14	GMG,NIC1
3	0.2 PPB	2.500	2.500	2.500	0.4805	0.4870	0.195	-	03/05/2024 08:18	GMG,NIC1
4	L2410192-01 WG1890484	2.500	2.500	2.500	0.2007	0.1869	0.075	-	03/05/2024 08:34	GMG,NIC1
5	L2410429-01 WG1890484	2.500	2.500	2.500	0.1714	0.1555	0.062	-	03/05/2024 08:37	GMG,NIC1
6	L2410429-02 WG1890484	2.500	2.500	2.500	0.1608	0.1441	0.058	-	03/05/2024 08:40	GMG,NIC1

NIC NIPPON INSTRUMENTS CORPORATION

No.	NAME	SVOL [mL]	CVOL [mL]	DVOL [mL]	AREA [ON]	MEAS [ng]	CONC [ug/L]	Recovery [%]	M. TIME	Note
7	L2410429-03 WG1890484	2.500	2.500	2.500	0.1901	0.1755	0.070	-	03/05/2024 08:44	GMG,NIC1
8	L2410430-01 WG1890484	2.500	2.500	2.500	0.1699	0.1539	0.062	-	03/05/2024 08:47	GMG,NIC1
9	L2410430-03 WG1890484	2.500	2.500	2.500	0.2027	0.1891	0.076	-	03/05/2024 08:50	GMG,NIC1
10	L2410430-04 WG1890484	2.500	2.500	2.500	0.2122	0.1992	0.080	-	03/05/2024 08:54	GMG,NIC1
11	L2410430-05 WG1890484	2.500	2.500	2.500	0.1677	0.1515	0.061	-	03/05/2024 08:57	GMG,NIC1
12	XL2410430-06 WG1890484	2.500	2.500	2.500	0.1744	0.1587	0.063	-	03/05/2024 09:00	GMG,NIC1
13	Check STD(5ug/L)	2.500	2.500	2.500	11.7867	12.6111	5.044	100.9	03/05/2024 09:05	GMG,NIC1
14	Check Blank	2.500	2.500	2.500	0.0329	0.0070	0.003	-	03/05/2024 09:18	GMG,NIC1
15	XL2410430-07 WG1890484	2.500	2.500	2.500	0.1555	0.1384	0.055	-	03/05/2024 09:23	GMG,NIC1
16	XL2410430-08 WG1890484	2.500	2.500	2.500	0.1390	0.1208	0.048	-	03/05/2024 09:26	GMG,NIC1
17	XL2410430-09 WG1890484	2.500	2.500	2.500	0.1407	0.1226	0.049	-	03/05/2024 09:29	GMG,NIC1
18	XL2410430-10 WG1890484	2.500	2.500	2.500	0.1458	0.1280	0.051	-	03/05/2024 09:32	GMG,NIC1
19	XL2410430-12 WG1890484	2.500	2.500	2.500	0.1915	0.1771	0.071	-	03/05/2024 09:36	GMG,NIC1
20	WG1891933-1 WG1891933	2.500	2.500	2.500	0.0325	0.0065	0.003	-	03/05/2024 10:16	GMG,NIC1
21	WG1891933-2 WG1891933	2.500	2.500	2.500	2.6496	2.8130	1.125	-	03/05/2024 10:19	GMG,NIC1
22	L2410449-01 WG1891933	2.500	2.500	2.500	0.0337	0.0078	0.003	-	03/05/2024 10:22	GMG,NIC1
23	WG1891933-3 WG1891933	2.500	2.500	2.500	13.1726	14.0972	5.639	-	03/05/2024 10:26	GMG,NIC1
24	WG1891933-4 WG1891933	2.500	2.500	2.500	13.3692	14.3081	5.723	-	03/05/2024 10:29	GMG,NIC1
25	Check STD(5ug/L)	2.500	2.500	2.500	12.1301	12.9793	5.192	103.8	03/05/2024 10:32	GMG,NIC1
26	Check Blank	2.500	2.500	2.500	0.0419	0.0166	0.007	-	03/05/2024 10:36	GMG,NIC1
27	L2410677-01 WG1891933	2.500	2.500	2.500	0.0495	0.0248	0.010	-	03/05/2024 10:40	GMG,NIC1
28	WG1891933-5 WG1891933	2.500	2.500	2.500	13.4294	14.3726	5.749	-	03/05/2024 10:43	GMG,NIC1
29	WG1891933-6 WG1891933	2.500	2.500	2.500	13.3723	14.3114	5.725	-	03/05/2024 10:46	GMG,NIC1
30	L2410504-09 WG1891933	2.500	2.500	2.500	0.0403	0.0149	0.006	-	03/05/2024 10:50	GMG,NIC1
31	L2410871-01 WG1891933	2.500	2.500	2.500	0.0294	0.0032	0.001	-	03/05/2024 11:46	GMG,NIC1
32	WG1891191-1 WG1891191	2.500	2.500	2.500	0.0674	0.0440	0.018	-	03/05/2024 11:50	GMG,NIC1
33	WG1891191-2 WG1891191	2.500	2.500	2.500	2.3557	2.4978	0.999	-	03/05/2024 11:53	GMG,NIC1
34	I2408819-02 WG1891191	2.500	2.500	2.500	0.0657	0.0422	0.017	-	03/05/2024 11:56	GMG,NIC1
35	WG1891191-3 WG1891191	2.500	2.500	2.500	11.4205	12.2184	4.887	-	03/05/2024 12:00	GMG,NIC1
36	WG1891191-4 WG1891191	2.500	2.500	2.500	0.0836	0.0613	0.025	-	03/05/2024 12:03	GMG,NIC1
37	Check STD(5ug/L)	2.500	2.500	2.500	11.9839	12.8226	5.129	102.6	03/05/2024 12:06	GMG,NIC1
38	Check Blank	2.500	2.500	2.500	0.0445	0.0194	0.008	-	03/05/2024 12:09	GMG,NIC1

No.	NAME	SVOL [mL]	CVOL [mL]	DVOL [mL]	AREA [ON]	MEAS [ng]	CONC [ug/L]	Recovery [%]	M. TIME	Note
39	I2408819-04 WG1891191	2.500	2.500	2.500	0.1068	0.0862	0.034	-	03/05/2024 12:13	GMG,NIC1
40	WG1891134-1 WG1891134	2.500	2.500	2.500	0.0584	0.0343	0.014	-	03/05/2024 12:16	GMG,NIC1
41	WG1891134-2 WG1891134	2.500	2.500	2.500	2.5610	2.7180	1.087	-	03/05/2024 12:19	GMG,NIC1
42	L2406601-01 WG1891134	2.500	2.500	2.500	0.0862	0.0641	0.026	-	03/05/2024 12:23	GMG,NIC1
43	WG1891134-3 WG1891134	2.500	2.500	2.500	12.2486	13.1064	5.243	-	03/05/2024 12:26	GMG,NIC1
44	WG1891134-4 WG1891134	2.500	2.500	2.500	0.0780	0.0553	0.022	-	03/05/2024 12:29	GMG,NIC1
45	L2410129-01 WG1891134	2.500	2.500	2.500	0.0589	0.0349	0.014	-	03/05/2024 12:33	GMG,NIC1
46	L2410129-02 WG1891134	2.500	2.500	2.500	0.0661	0.0426	0.017	-	03/05/2024 12:36	GMG,NIC1
47	L2410129-03 WG1891134	2.500	2.500	2.500	0.0782	0.0556	0.022	-	03/05/2024 12:39	GMG,NIC1
48	L2410129-04 WG1891134	2.500	2.500	2.500	0.1163	0.0964	0.039	-	03/05/2024 12:43	GMG,NIC1
49	Check STD(5ug/L)	2.500	2.500	2.500	12.0234	12.8649	5.146	102.9	03/05/2024 12:46	GMG,NIC1
50	Check Blank	2.500	2.500	2.500	0.0402	0.0148	0.006	-	03/05/2024 12:52	GMG,NIC1
51	L2410487-01 WG1891134	2.500	2.500	2.500	0.1064	0.0858	0.034	-	03/05/2024 12:55	GMG,NIC1
52	WG1890886-1 WG1890886	2.500	2.500	2.500	0.0698	0.0465	0.019	-	03/05/2024 13:01	GMG,NIC1
53	WG1890886-2 WG1890886	2.500	2.500	2.500	2.5009	2.6535	1.061	-	03/05/2024 13:04	GMG,NIC1
54	I2410747-01 WG1890886	2.500	2.500	2.500	0.0719	0.0488	0.020	-	03/05/2024 13:07	GMG,NIC1
55	WG1890886-3 WG1890886	2.500	2.500	2.500	11.9732	12.8111	5.124	-	03/05/2024 13:11	GMG,NIC1
56	WG1890886-4 WG1890886	2.500	2.500	2.500	0.0718	0.0487	0.019	-	03/05/2024 13:14	GMG,NIC1
57	I2410455-01 WG1890886	2.500	2.500	2.500	0.0654	0.0418	0.017	-	03/05/2024 13:17	GMG,NIC1
58	I2410460-01 WG1890886	2.500	2.500	2.500	0.0838	0.0616	0.025	-	03/05/2024 13:21	GMG,NIC1
59	I2410464-01 WG1890886	2.500	2.500	2.500	0.0953	0.0739	0.030	-	03/05/2024 13:24	GMG,NIC1
60	I2410466-01 WG1890886	2.500	2.500	2.500	0.7224	0.7464	0.299	-	03/05/2024 13:27	GMG,NIC1
61	Check STD(5ug/L)	2.500	2.500	2.500	12.0417	12.8845	5.154	103.1	03/05/2024 13:30	GMG,NIC1
62	Check Blank	2.500	2.500	2.500	0.0389	0.0134	0.005	-	03/05/2024 13:35	GMG,NIC1
63	I2410471-01 WG1890886	2.500	2.500	2.500	0.0720	0.0489	0.020	-	03/05/2024 13:39	GMG,NIC1
64	I2410573-17 WG1890886	2.500	2.500	2.500	0.0737	0.0507	0.020	-	03/05/2024 13:42	GMG,NIC1
65	WG1890902-1 WG1890902	2.500	2.500	2.500	0.0654	0.0418	0.017	-	03/05/2024 14:05	GMG,NIC1
66	WG1890902-2 WG1890902	2.500	2.500	2.500	2.4016	2.5470	1.019	-	03/05/2024 14:09	GMG,NIC1
67	I2410430-01 WG1890902	2.500	2.500	2.500	0.0709	0.0477	0.019	-	03/05/2024 14:12	GMG,NIC1
68	WG1890902-3 WG1890902	2.500	2.500	2.500	12.3985	13.2671	5.307	-	03/05/2024 14:15	GMG,NIC1
69	WG1890902-4 WG1890902	2.500	2.500	2.500	0.0710	0.0478	0.019	-	03/05/2024 14:19	GMG,NIC1
70	I2410429-01 WG1890902	2.500	2.500	2.500	0.0495	0.0248	0.010	-	03/05/2024 14:22	GMG,NIC1

NIC NIPPON INSTRUMENTS CORPORATION

No.	NAME	SVOL [mL]	CVOL [mL]	DVOL [mL]	AREA [ON]	MEAS [ng]	CONC [ug/L]	Recovery [%]	M. TIME	Note
71	I2410429-02 WG1890902	2.500	2.500	2.500	0.1192	0.0995	0.040	-	03/05/2024 14:25	GMG,NIC1
72	I2410429-03 WG1890902	2.500	2.500	2.500	0.1236	0.1042	0.042	-	03/05/2024 14:28	GMG,NIC1
73	Check STD(5ug/L)	2.500	2.500	2.500	12.0050	12.8452	5.138	102.8	03/05/2024 14:32	GMG,NIC1
74	Check Blank	2.500	2.500	2.500	0.0370	0.0114	0.005	-	03/05/2024 14:41	GMG,NIC1
75	I2410430-03 WG1890902	2.500	2.500	2.500	0.0856	0.0635	0.025	-	03/05/2024 14:45	GMG,NIC1
76	I2410430-04 WG1890902	2.500	2.500	2.500	0.0909	0.0692	0.028	-	03/05/2024 14:48	GMG,NIC1
77	I2410430-05 WG1890902	2.500	2.500	2.500	0.1091	0.0887	0.035	-	03/05/2024 14:51	GMG,NIC1
78	I2410430-06 WG1890902	2.500	2.500	2.500	0.0711	0.0479	0.019	-	03/05/2024 14:54	GMG,NIC1
79	I2410430-07 WG1890902	2.500	2.500	2.500	0.0996	0.0785	0.031	-	03/05/2024 14:58	GMG,NIC1
80	I2410430-08 WG1890902	2.500	2.500	2.500	0.0768	0.0541	0.022	-	03/05/2024 15:01	GMG,NIC1
81	WG1891299-1 WG1891299	2.500	2.500	2.500	0.1035	0.0827	0.033	-	03/05/2024 15:04	GMG,NIC1
82	WG1891299-2 WG1891299	2.500	2.500	2.500	2.4462	2.5949	1.038	-	03/05/2024 15:08	GMG,NIC1
83	L2410485-02 WG1891299	2.500	2.500	2.500	0.1823	0.1672	0.067	-	03/05/2024 15:11	GMG,NIC1
84	WG1891299-3 WG1891299	2.500	2.500	2.500	12.0659	12.9105	5.164	-	03/05/2024 15:14	GMG,NIC1
85	Check STD(5ug/L)	2.500	2.500	2.500	11.9092	12.7424	5.097	101.9	03/05/2024 15:18	GMG,NIC1
86	Check Blank	2.500	2.500	2.500	0.0402	0.0148	0.006	-	03/05/2024 15:21	GMG,NIC1
87	WG1891299-4 WG1891299	2.500	2.500	2.500	0.2073	0.1940	0.078	-	03/05/2024 15:25	GMG,NIC1
88	WG1891326-1 WG1891326	2.500	2.500	2.500	0.0985	0.0773	0.031	-	03/05/2024 15:50	GMG,NIC1
89	WG1891326-2 WG1891326	2.500	2.500	2.500	2.0333	2.1521	0.861	-	03/05/2024 15:53	GMG,NIC1
90	I2410579-08 WG1891326	2.500	2.500	2.500	0.1753	0.1597	0.064	-	03/05/2024 15:56	GMG,NIC1
91	WG1891326-3 WG1891326	2.500	2.500	2.500	11.4309	12.2295	4.892	-	03/05/2024 16:00	GMG,NIC1
92	WG1891326-4 WG1891326	2.500	2.500	2.500	11.8881	12.7198	5.088	-	03/05/2024 16:03	GMG,NIC1
93	I2410579-01 WG1891326	2.500	2.500	2.500	0.4379	0.4413	0.177	-	03/05/2024 16:06	GMG,NIC1
94	I2410579-02 WG1891326	2.500	2.500	2.500	0.1596	0.1428	0.057	-	03/05/2024 16:10	GMG,NIC1
95	I2410579-03 WG1891326	2.500	2.500	2.500	0.1713	0.1554	0.062	-	03/05/2024 16:13	GMG,NIC1
96	I2410579-04 WG1891326	2.500	2.500	2.500	0.2044	0.1909	0.076	-	03/05/2024 16:16	GMG,NIC1
97	Check STD(5ug/L)	2.500	2.500	2.500	11.9645	12.8017	5.121	102.4	03/05/2024 16:19	GMG,NIC1
98	Check Blank	2.500	2.500	2.500	0.0391	0.0136	0.005	-	03/05/2024 16:23	GMG,NIC1
99	I2410579-05 WG1891326	2.500	2.500	2.500	0.2528	0.2428	0.097	-	03/05/2024 16:28	GMG,NIC1
100	I2410579-06 WG1891326	2.500	2.500	2.500	0.2388	0.2278	0.091	-	03/05/2024 16:31	GMG,NIC1
101	I2410579-07 WG1891326	2.500	2.500	2.500	0.2583	0.2487	0.099	-	03/05/2024 16:34	GMG,NIC1
102	I2410579-09 WG1891326	2.500	2.500	2.500	0.2153	0.2026	0.081	-	03/05/2024 16:38	GMG,NIC1

No.	NAME	SVOL [mL]	CVOL [mL]	DVOL [mL]	AREA [ON]	MEAS [ng]	CONC [ug/L]	Recovery [%]	M. TIME	Note
103	I2410579-10 WG1891326	2.500	2.500	2.500	0.1773	0.1618	0.065	-	03/05/2024 16:41	GMG,NIC1
104	WG1891915-1 WG1891915	2.500	2.500	2.500	0.0831	0.0608	0.024	-	03/05/2024 16:44	GMG,NIC1
105	WG1891915-2 WG1891915	2.500	2.500	2.500	2.3970	2.5421	1.017	-	03/05/2024 16:48	GMG,NIC1
106	L2410506-01 WG1891915	2.500	2.500	2.500	0.3898	0.3897	0.156	-	03/05/2024 16:51	GMG,NIC1
107	WG1891915-3 WG1891915	2.500	2.500	2.500	11.7633	12.5860	5.034	-	03/05/2024 16:54	GMG,NIC1
108	WG1891915-4 WG1891915	2.500	2.500	2.500	0.3523	0.3495	0.140	-	03/05/2024 16:58	GMG,NIC1
109	Check STD(5ug/L)	2.500	2.500	2.500	12.0018	12.8417	5.137	102.7	03/05/2024 17:01	GMG,NIC1
110	Check Blank	2.500	2.500	2.500	0.0387	0.0132	0.005	-	03/05/2024 17:06	GMG,NIC1
111	L2410415-02 WG1891915	2.500	2.500	2.500	0.0704	0.0472	0.019	-	03/05/2024 17:09	GMG,NIC1
112	L2410506-02 WG1891915	2.500	2.500	2.500	0.2044	0.1909	0.076	-	03/05/2024 17:13	GMG,NIC1
113	L2410793-01 WG1891915	2.500	2.500	2.500	0.0856	0.0635	0.025	-	03/05/2024 17:16	GMG,NIC1
114	WG1891909-1 WG1891909	2.500	2.500	2.500	0.0451	0.0201	0.008	-	03/05/2024 17:19	GMG,NIC1
115	WG1891909-2 WG1891909	2.500	2.500	2.500	2.3249	2.4648	0.986	-	03/05/2024 17:23	GMG,NIC1
116	L2410415-01 WG1891909	2.500	2.500	2.500	0.0556	0.0313	0.013	-	03/05/2024 17:26	GMG,NIC1
117	WG1891909-3 WG1891909	2.500	2.500	2.500	11.3951	12.1912	4.876	-	03/05/2024 17:29	GMG,NIC1
118	WG1891909-4 WG1891909	2.500	2.500	2.500	0.0599	0.0359	0.014	-	03/05/2024 17:33	GMG,NIC1
119	L2410888-03 WG1891909	2.500	2.500	2.500	0.0647	0.0411	0.016	-	03/05/2024 17:36	GMG,NIC1
120	L2410888-06 WG1891909	2.500	2.500	2.500	0.0468	0.0219	0.009	-	03/05/2024 17:39	GMG,NIC1
121	Check STD(5ug/L)	2.500	2.500	2.500	12.0937	12.9403	5.176	103.5	03/05/2024 17:42	GMG,NIC1
122	Check Blank	2.500	2.500	2.500	0.0413	0.0160	0.006	-	03/05/2024 17:46	GMG,NIC1
123	WG1891941-1 WG1891941	2.500	2.500	2.500	0.0398	0.0144	0.006	-	03/05/2024 17:49	GMG,NIC1
124	WG1891941-2 WG1891941	2.500	2.500	2.500	2.4623	2.6121	1.045	-	03/05/2024 17:52	GMG,NIC1
125	I2410745-02 WG1891941	2.500	2.500	2.500	0.0305	0.0044	0.002	-	03/05/2024 17:56	GMG,NIC1
126	WG1891941-3 WG1891941	2.500	2.500	2.500	11.5435	12.3503	4.940	-	03/05/2024 17:59	GMG,NIC1
127	WG1891941-4 WG1891941	2.500	2.500	2.500	0.0302	0.0041	0.002	-	03/05/2024 18:02	GMG,NIC1
128	I2410745-01 WG1891941	2.500	2.500	2.500	0.0448	0.0197	0.008	-	03/05/2024 18:06	GMG,NIC1
129	WG1891941-5 WG1891941	2.500	2.500	2.500	11.6362	12.4497	4.980	-	03/05/2024 18:09	GMG,NIC1
130	WG1891941-6 WG1891941	2.500	2.500	2.500	0.0786	0.0560	0.022	-	03/05/2024 18:12	GMG,NIC1
131	I2410573-17 WG1891941	2.500	2.500	2.500	0.0280	0.0017	0.001	-	03/05/2024 18:15	GMG,NIC1
132	Check STD(5ug/L)	2.500	2.500	2.500	11.7580	12.5803	5.032	100.6	03/05/2024 18:43	GMG,NIC1
133	Check Blank	2.500	2.500	2.500	0.0452	0.0202	0.008	-	03/05/2024 18:46	GMG,NIC1

MERCURY TRUE VALUE CRITERIA

ICV	3 ug/l
LCSW	1 ug/l
MS	1 ug/l
CCV	5 ug/l

As of 6/1/13, Mercury True Value criteria is as follows:

ICV	3 ug/l
LCSW	1 ug/l
MS(aq)	5 ug/l
MS(soil)	1 ug/l
CCV	10 ug/l

▪ Certificate of Analysis ▪

Product: Metals in Soil
Catalog Number: 540
Lot No. D102-540
Certificate Issue Date: June 22, 2018
Expiration Date: January 31, 2022
Revision Number: Original

Product use instructions are included as part of the certification packet and are paginated separately from this Certificate of Analysis. Please reference the product use instructions for catalog #540 revision 030512.

CERTIFICATION

Parameter	Certified Value[1]	Reference Value	Uncertainty[2]	QC Performance Acceptance Limits[3]	PT Performance Acceptance Limits[4]
	mg/kg	mg/kg	%	mg/kg	mg/kg
Aluminum	10100	8160	6.36	3960 - 12400	4080 - 12200
Antimony	120	60.9	9.42	0.822 - 121	12.0 - 166
Arsenic	144	135	5.08	112 - 158	94.6 - 176
Barium	469	443	6.77	366 - 521	332 - 554
Beryllium	207	197	5.86	164 - 229	148 - 246
Boron	213	174	12.6	127 - 221	105 - 244
Cadmium	224	204	6.65	169 - 240	153 - 256
Calcium	5190	4830	9.12	3950 - 5700	3510 - 6150
Chromium	138	132	8.56	109 - 155	92.2 - 171
Cobalt	182	179	7.93	151 - 207	134 - 224
Copper	191	184	6.72	155 - 213	138 - 230
Iron	15000	14400	10.7	8770 - 20000	5120 - 23600
Lead	225	216	7.72	178 - 254	159 - 274
Magnesium	2570	2340	6.13	1780 - 2900	1460 - 3230
Manganese	331	323	6.71	266 - 380	242 - 404
Mercury	16.8	13.2	16.0	8.64 - 17.7	7.89 - 18.5
Molybdenum	193	175	2.39	141 - 209	125 - 226
Nickel	163	152	5.95	126 - 178	106 - 197
Potassium	2420	2050	6.31	1440 - 2660	1210 - 2890
Selenium	81.9	74.9	4.13	59.3 - 90.5	47.0 - 103
Silver	57.6	53.9	9.00	43.0 - 64.8	37.8 - 70.0
Sodium	161	149	12.1	111 - 188	57.7 - 241
Strontium	100	96.2	4.04	78.1 - 114	69.0 - 123
Thallium	253	232	3.54	188 - 276	168 - 296

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Parameter	Certified Value[1]	Reference Value	Uncertainty[2]	QC Performance Acceptance Limits[3]	PT Performance Acceptance Limits[4]
	mg/kg	mg/kg	%	mg/kg	mg/kg
Tin	146	134	10.8	106 - 163	79.5 - 189
Titanium	449	340	7.20	70.2 - 609	44.9 - 711
Uranium	114	113	7.10	85.5 - 140	71.9 - 153
Vanadium	180	172	8.85	137 - 207	126 - 218
Zinc	217	211	6.58	171 - 250	147 - 274

ANALYTICAL VERIFICATION

Parameter	Certified Value[1]	Proficiency Testing Study			NIST Traceability	
		Mean	Recovery[5]	n	SRM Number	Recovery
	mg/kg	mg/kg	%			%
Aluminum	10100	8160	80.8	138	-	-
Antimony	120	60.9	50.8	135	-	-
Arsenic	144	135	93.8	184	-	-
Barium	469	443	94.5	158	-	-
Beryllium	207	197	95.0	148	-	-
Boron	213	174	81.8	107	-	-
Cadmium	224	204	91.3	199	-	-
Calcium	5190	4830	93.0	122	-	-
Chromium	138	132	95.5	172	-	-
Cobalt	182	179	98.4	140	-	-
Copper	191	184	96.3	183	-	-
Iron	15000	14400	95.6	133	-	-
Lead	225	216	96.2	204	-	-
Magnesium	2570	2340	91.2	122	-	-
Manganese	331	323	97.6	147	-	-
Mercury	16.8	13.2	78.3	128	-	-
Molybdenum	193	175	90.8	143	-	-
Nickel	163	152	93.1	185	-	-
Potassium	2420	2050	84.7	121	-	-
Selenium	81.9	74.9	91.5	163	-	-

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▪ Certificate of Analysis ▪

Parameter	Certified Value[1]	Proficiency Testing Study			NIST Traceability	
		Mean	Recovery[5]	n	SRM Number	Recovery
	mg/kg	mg/kg	%			%
Silver	57.6	53.9	93.6	150	-	-
Sodium	161	149	92.8	105	-	-
Strontium	100	96.2	96.2	90	-	-
Thallium	253	232	91.6	147	-	-
Tin	146	134	92.0	100	-	-
Titanium	449	340	75.6	93	-	-
Uranium	114	113	98.8	35	-	-
Vanadium	180	172	95.4	139	-	-
Zinc	217	211	97.0	180	-	-

1. The **Certified Values** are the actual "made-to" concentrations confirmed by ERA analytical verification. The certified values are monitored and purchasers will be notified of any significant changes resulting in recertification or withdrawal of this certified reference material during the period of validity of this certificate.

2. The **Uncertainty** is the total propagated uncertainty at the 95% confidence interval. The uncertainty is based on the preparation and internal analytical verification of the product by ERA, multiplied by a coverage factor. The uncertainty applies to the product as supplied and does not take into account any required or optional dilution and/or preparations the laboratory may perform while using this product.

3. The **QC Performance Acceptance Limits (QC PALs™)**are based on actual historical data collected in ERA's Proficiency Testing program. The QC PALs™ reflect any inherent biases in the methods used to establish the limits and closely approximate a 95% confidence interval of the performance that experienced laboratories should achieve using accepted environmental methods. Use the QC PALs™ to realistically evaluate your performance against your peers.

4. The **PT Performance Acceptance Limits (PT PALs™)** are calculated using the regression equations and fixed acceptance criteria specified in the NELAC proficiency testing requirements. Use the PT PALs™ when analyzing this QC standard alongside USEPA and NELAC compliant PT standards. Please note that many PT study acceptance limits are concentration dependent (some non-linearly) and, therefore, the acceptance limits of this QC standard and any PT standard may differ relative to their difference in concentrations.

5. The **PT Data/Traceability** data include the mean value, percent recovery and number of data points reported by the laboratories in our Proficiency Testing study compared to the Certified Values. In addition, where NIST Standard Reference Materials (SRMs) are available, each analyte has been analytically traced to the NIST SRM listed. This product is traceable to the lot numbers of its starting materials. All gravimetric and volumetric measurements related to its manufacture are traceable to NIST through an unbroken chain of comparisons.
Traceability Recovery (%) = [(% recovery certified standard)/(% recovery NIST SRM)]*100
The traceability data shown were compiled by analyzing the ERA standards or their associated stock solutions against the applicable NIST SRMs.

6. For additional information on this product such as intended use, instructions for use, level of homogeneity, and safety information, please refer to the provided Instruction Sheet

If you have any questions or need technical assistance, please call ERA technical assistance at 1-800-372-0122 or send an email to info@eraqc.com.

Certifying Officer

Brian Miller

Quality Officer

Matthew Seebeck

ERA
A Waters Company

Reference Material

▪ Certificate of Analysis ▪

Product: Metals in Soil
Catalog Number: 540
Lot No. D105-540
Certificate Issue Date: March 19, 2019
Expiration Date: October 12, 2022
Revision Number: Original

Product use instructions are included as part of the certification packet and are paginated separately from this Certificate of Analysis. Please reference the product use instructions for catalog #540 revision 030512.

CERTIFICATION

Parameter	Certified Value[1]	Reference Value	Uncertainty[2]	QC Performance Acceptance Limits[3]	PT Performance Acceptance Limits[4]
	mg/kg	mg/kg	%	mg/kg	mg/kg
Aluminum	10100	8800	8.32	4600 - 13000	4470 - 13100
Antimony	282	147	7.70	6.17 - 289	28.2 - 366
Arsenic	155	143	6.34	119 - 168	100 - 186
Barium	439	415	5.37	343 - 488	311 - 519
Beryllium	192	179	2.78	149 - 210	134 - 224
Boron	216	160	7.08	113 - 208	96.1 - 238
Cadmium	61.5	56.2	0.528	46.6 - 65.9	42.2 - 70.3
Calcium	5190	4960	6.64	4090 - 5840	3610 - 6310
Chromium	104	101	4.75	83.2 - 118	70.5 - 131
Cobalt	196	189	0.500	158 - 219	141 - 236
Copper	65.0	63.1	2.65	53.1 - 73.1	47.3 - 78.9
Iron	15000	15700	8.94	10100 - 21300	6000 - 25400
Lead	126	125	4.77	103 - 146	89.3 - 160
Magnesium	2570	2410	6.26	1860 - 2970	1520 - 3310
Manganese	387	382	5.37	315 - 449	290 - 474
Mercury	7.76	7.61	13.7	5.53 - 9.69	4.57 - 10.7
Molybdenum	120	107	0.500	86.0 - 128	75.5 - 139
Nickel	117	108	0.514	89.5 - 127	75.7 - 141
Potassium	2420	2110	5.62	1500 - 2720	1260 - 2960
Selenium	84.6	77.9	7.10	61.8 - 94.0	49.2 - 107
Silver	34.6	34.3	8.34	27.8 - 40.9	23.6 - 45.1
Sodium	161	145	6.72	106 - 183	54.3 - 235
Strontium	104	104	3.95	85.1 - 123	74.8 - 133
Thallium	123	113	0.500	91.3 - 134	77.1 - 149

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Parameter	Certified Value[1]	Reference Value	Uncertainty[2]	QC Performance Acceptance Limits[3]	PT Performance Acceptance Limits[4]
	mg/kg	mg/kg	%	mg/kg	mg/kg
Tin	118	107	0.500	83.5 - 130	61.2 - 152
Titanium	512	421	5.80	114 - 728	0.00 - 854
Uranium	103	104	6.18	79.1 - 128	71.9 - 135
Vanadium	87.3	83.7	8.55	66.8 - 101	54.2 - 113
Zinc	251	240	3.98	194 - 285	168 - 312

ANALYTICAL VERIFICATION

Parameter	Certified Value[1]	Proficiency Testing Study			NIST Traceability	
		Mean	Recovery[5]	n	SRM Number	Recovery
	mg/kg	mg/kg	%			%
Aluminum	10100	8800	87.1	193	-	-
Antimony	282	147	52.3	216	-	-
Arsenic	155	143	92.5	240	-	-
Barium	439	415	94.6	222	-	-
Beryllium	192	179	93.4	220	-	-
Boron	216	160	74.2	152	-	-
Cadmium	61.5	56.2	91.5	239	-	-
Calcium	5190	4960	95.6	175	-	-
Chromium	104	101	96.8	237	-	-
Cobalt	196	189	96.2	215	-	-
Copper	65.0	63.1	97.1	237	-	-
Iron	15000	15700	105	195	-	-
Lead	126	125	99.0	243	-	-
Magnesium	2570	2410	93.9	177	-	-
Manganese	387	382	98.7	215	-	-
Mercury	7.76	7.61	98.0	157	-	-
Molybdenum	120	107	89.4	216	-	-
Nickel	117	108	92.5	235	-	-
Potassium	2420	2110	87.2	181	-	-
Selenium	84.6	77.9	92.1	231	-	-

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Reference Material

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Parameter	Certified Value[1]	Proficiency Testing Study			NIST Traceability	
		Mean	Recovery[5]	n	SRM Number	Recovery
	mg/kg	mg/kg	%			%
Silver	34.6	34.3	99.3	216	-	-
Sodium	161	145	89.8	166	-	-
Strontium	104	104	99.9	148	-	-
Thallium	123	113	91.8	215	-	-
Tin	118	107	90.4	164	-	-
Titanium	512	421	82.2	157	-	-
Uranium	103	104	101	61	-	-
Vanadium	87.3	83.7	95.9	214	-	-
Zinc	251	240	95.5	234	-	-

1. The **Certified Values** are the actual "made-to" concentrations confirmed by ERA analytical verification. The certified values are monitored and purchasers will be notified of any significant changes resulting in recertification or withdrawal of this reference material during the period of validity of this certificate.

2. The **Uncertainty** is the total propagated uncertainty at the 95% confidence interval. The uncertainty is based on the preparation and internal analytical verification of the product by ERA, multiplied by a coverage factor. The uncertainty applies to the product as supplied and does not take into account any required or optional dilution and/or preparations the laboratory may perform while using this product.

3. The **QC Performance Acceptance Limits (QC PALs™)**are based on actual historical data collected in ERA's Proficiency Testing program. The QC PALs™ reflect any inherent biases in the methods used to establish the limits and closely approximate a 95% confidence interval of the performance that experienced laboratories should achieve using accepted environmental methods. Use the QC PALs™ to realistically evaluate your performance against your peers.

4. The **PT Performance Acceptance Limits (PT PALs™)** are calculated using the regression equations and fixed acceptance criteria specified in the NELAC proficiency testing requirements. Use the PT PALs™ when analyzing this QC standard alongside USEPA and NELAC compliant PT standards. Please note that many PT study acceptance limits are concentration dependent (some non-linearly) and, therefore, the acceptance limits of this QC standard and any PT standard may differ relative to their difference in concentrations.

5. The **PT Data/Traceability** data include the mean value, percent recovery and number of data points reported by the laboratories in our Proficiency Testing study compared to the Certified Values. In addition, where NIST Standard Reference Materials (SRMs) are available, each analyte has been analytically traced to the NIST SRM listed. This product is traceable to the lot numbers of its starting materials. All gravimetric and volumetric measurements related to its manufacture are traceable to NIST through an unbroken chain of comparisons.
Traceability Recovery (%) = [(% recovery certified standard)/(% recovery NIST SRM)]*100
The traceability data shown were compiled by analyzing the ERA standards or their associated stock solutions against the applicable NIST SRMs.

6. For additional information on this product such as intended use, instructions for use, level of homogeneity, and safety information, please refer to the provided Instruction Sheet

If you have any questions or need technical assistance, please call ERA technical assistance at 1-800-372-0122 or send an email to info@eraqc.com.

Certifying Officer

Brian Miller

Brian Miller

Quality Officer

Matthew Seebeck

ACCREDITED ACCREDITED

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Certified Reference Material

▪ Certificate of Analysis ▪

Product: Metals in Soil
Catalog Number: 540
Lot No. D109-540
Certificate Issue Date: March 24, 2020
Expiration Date: October 03, 2023
Revision Number: Original

Product use instructions are included as part of the certification packet and are paginated separately from this Certificate of Analysis. Please reference the product use instructions for catalog #540 revision 090119.

CERTIFICATION

Parameter	Certified Value[1]	Reference Value[7]	Uncertainty[2]	QC Performance Acceptance Limits[3]	PT Performance Acceptance Limits[4]
	mg/kg	mg/kg	%	mg/kg	mg/kg
Aluminum	10100	8130	2.54	3920 - 12300	4060 - 12200
Antimony	259	134	5.03	4.56 - 264	25.9 - 335
Arsenic	171	156	3.38	129 - 183	109 - 203
Barium	253	239	4.81	197 - 280	179 - 298
Beryllium	179	169	6.59	141 - 198	127 - 212
Boron	114	87.5	10.3	62.5 - 113	52.5 - 125
Cadmium	149	137	5.43	113 - 160	103 - 171
Calcium	5190	4760	3.48	3890 - 5640	3460 - 6070
Chromium	163	154	3.79	126 - 181	108 - 200
Cobalt	127	121	5.07	101 - 141	90.8 - 151
Copper	57.0	54.9	4.13	46.1 - 63.6	41.1 - 68.6
Iron	15000	14100	6.27	8470 - 19700	4920 - 23200
Lead	133	130	3.00	107 - 152	93.3 - 167
Magnesium	2570	2320	3.32	1760 - 2880	1440 - 3200
Manganese	277	269	2.67	221 - 317	199 - 340
Mercury	21.6	20.5	7.72	14.7 - 26.3	12.3 - 28.6
Molybdenum	108	95.4	2.61	76.4 - 114	66.9 - 124
Nickel	58.7	53.9	4.97	44.5 - 63.3	37.7 - 70.0
Potassium	2420	2020	3.06	1410 - 2630	1190 - 2850
Selenium	181	167	5.63	132 - 201	113 - 221
Silver	35.5	33.6	5.20	26.8 - 40.3	23.0 - 44.1
Sodium	161	133	2.76	95.1 - 171	46.5 - 220
Strontium	89.7	87.9	4.59	71.7 - 104	62.8 - 113
Thallium	121	112	5.19	90.3 - 133	76.1 - 147

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▪ Certificate of Analysis ▪

Parameter	Certified Value[1]	Reference Value[7]	Uncertainty[2]	QC Performance Acceptance Limits[3]	PT Performance Acceptance Limits[4]
	mg/kg	mg/kg	%	mg/kg	mg/kg
Tin	83.5	74.0	5.42	57.6 - 90.4	39.7 - 108
Titanium	474	333	7.17	48.6 - 617	46.3 - 620
Uranium	51.9	51.9	3.36	39.6 - 64.3	35.9 - 68.0
Vanadium	68.1	62.6	6.00	49.4 - 75.8	37.0 - 88.3
Zinc	165	158	2.34	128 - 188	111 - 205

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ANALYTICAL VERIFICATION

Parameter	Certified Value[1]	Proficiency Testing Study			NIST Traceability	
		Mean	Recovery[5]	n	SRM Number[6]	Recovery
	mg/kg	mg/kg	%			%
Aluminum	10100	8130	80.5	196	-	-
Antimony	259	134	51.8	217	-	-
Arsenic	171	156	91.3	243	-	-
Barium	253	239	94.3	230	-	-
Beryllium	179	169	94.6	223	-	-
Boron	114	87.5	76.7	150	-	-
Cadmium	149	137	91.8	249	-	-
Calcium	5190	4760	91.8	184	-	-
Chromium	163	154	94.4	245	-	-
Cobalt	127	121	95.3	221	-	-
Copper	57.0	54.9	96.2	243	-	-
Iron	15000	14100	93.9	199	-	-
Lead	133	130	97.7	251	-	-
Magnesium	2570	2320	90.1	182	-	-
Manganese	277	269	97.2	220	-	-
Mercury	21.6	20.5	94.7	172	-	-
Molybdenum	108	95.4	88.3	218	-	-
Nickel	58.7	53.9	91.8	242	-	-
Potassium	2420	2020	83.5	187	-	-
Selenium	181	167	92.2	235	-	-
Silver	35.5	33.6	94.5	222	-	-
Sodium	161	133	82.7	177	-	-
Strontium	89.7	87.9	98.0	151	-	-
Thallium	121	112	92.2	219	-	-
Tin	83.5	74.0	88.6	170	-	-
Titanium	474	333	70.3	157	-	-
Uranium	51.9	51.9	100	60	-	-
Vanadium	68.1	62.6	91.9	213	-	-
Zinc	165	158	95.8	238	-	-

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▪ Certificate of Analysis ▪

1. The **Certified Values** are the actual gravimetric/volumetric "made-to" concentrations confirmed by ERA analytical verification. The certified values are monitored and purchasers will be notified of any significant changes resulting in recertification or withdrawal of this certified reference material during the period of validity of this certificate.

2. The **Uncertainty** represents an expanded uncertainty and approximates a 95% confidence interval. The uncertainty is based on the characterization, homogeneity and stability characteristics of the product, multiplied by a coverage factor (k=2). The uncertainty applies to the product as supplied and does not take into account any required or optional dilution and/or preparations the laboratory may perform while using this product. The formula used to calculate the expanded uncertainty is:
$U_{expanded} = k * SQRT((U_{char}^2) + (U_{homogen}^2) + (U_{LTS}^2) + (U_{STS}^2) + (U_{RSS}^2))$

Where:

$U_{expanded}$ = Expanded uncertainty.
k = Coverage factor.
U_{char} = Combined standard uncertainty of the manufacturing and/or analytical verification assessment.
$U_{homogen}$ = Standard uncertainty of the homogeneity assessment.
U_{LTS} = Standard uncertainty associated with long-term stability.
U_{STS} = Standard uncertainty associated with short-term (transport) stability.
U_{RSS} = Standard uncertainty associated with repeated sampling of the product (where permitted by product use instructions).

3. The **QC Performance Acceptance Limits (QC PALs™)** are based on actual historical data collected in ERA's Proficiency Testing program. The QC PALs™ reflect any inherent biases in the methods used to establish the limits and closely approximate a 95% confidence interval of the performance that experienced laboratories should achieve using accepted environmental methods. Use the QC PALs™ to realistically evaluate your performance against your peers.

4. The **PT Performance Acceptance Limits (PT PALs™)** are calculated using the regression equations and fixed acceptance criteria specified in the NELAC proficiency testing requirements. Use the PT PALs™ when analyzing this certified reference material alongside USEPA and NELAC compliant PT study materials. Please note that many PT study acceptance limits are concentration dependent (some non-linearly) and therefore, the acceptance limits of this certified reference material and any PT study material may differ relative to their difference in concentrations.

5. The **PT Performance Data** include the mean value, percent recovery and number of data points reported by laboratories in our Proficiency Testing study compared to the Certified Values. In the event this lot was not used in a proficiency testing scheme, the data displayed was generated internally by ERA.

6. Where NIST Standard Reference Materials (SRMs) are available, each analyte has been analytically traced to the NIST SRM listed. **Analytical Traceability Recovery (%)** = [(% recovery ERA certified reference material)/(% recovery NIST SRM)]*100
The traceability data shown were compiled by analyzing this ERA certified reference material and/or it's associated stock solution(s) against the applicable NIST SRMs.

7. The **Reference Values** are equal to the mean recoveries for the parameters as determined in an interlaboratory round robin study. The **Reference Values** represent the expected performance for the analytes in this standard. ERA recommends using the **Reference Values** when assessing or evaluating your results.

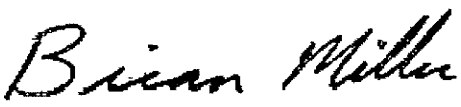
8. **Metrological Traceability**. This certified reference material is metrologically traceable to NIST mass reference materials through an unbroken chain of comparisons.

9. For additional information on this product such as intended use, storage information, instructions for use, minimum sample size, and safety information, please refer to the Product Use Instructions provided.

If you have any questions or need technical assistance, please call ERA technical assistance at 1-800-372-0122 or send an email to info@eraqc.com.

Certifying Officer

Brian Miller



Quality Officer

Matthew Seebeck

ERA
A Waters Company

Certified Reference Material

▪ Certificate of Analysis ▪

Product: Metals in Soil
Catalog Number: 540
Lot No. D113-540
Certificate Issue Date: March 23, 2021
Expiration Date: October 13, 2024
Revision Number: Original

Product use instructions are included as part of the certification packet and are paginated separately from this Certificate of Analysis. Please reference the product use instructions for catalog #540 revision 090119.

CERTIFICATION

Parameter	Certified Value[1]	Reference Value	Uncertainty[2]	QC Performance Acceptance Limits[3]	PT Performance Acceptance Limits[4]
	mg/kg	mg/kg	%	mg/kg	mg/kg
Aluminum	10100	8630	12.0	4420 - 12800	4370 - 12900
Antimony	256	129	16.8	0.742 - 257	25.6 - 323
Arsenic	91.6	84.5	15.1	70.0 - 99.0	59.2 - 110
Barium	259	249	9.94	206 - 292	187 - 311
Beryllium	175	163	3.89	135 - 191	122 - 204
Boron	95.7	76.7	12.8	55.7 - 97.7	48.0 - 107
Cadmium	107	99.0	11.5	82.2 - 116	74.2 - 124
Calcium	5190	4760	11.8	3890 - 5640	3460 - 6070
Chromium	129	122	14.6	101 - 144	85.7 - 159
Cobalt	63.6	61.7	11.5	51.9 - 71.6	46.3 - 77.2
Copper	62.3	61.5	12.3	51.9 - 71.0	46.1 - 76.8
Iron	15000	14500	15.7	8860 - 20100	5190 - 23800
Lead	122	123	13.9	103 - 144	88.3 - 158
Lithium	6.42	7.30	18.7	5.13 - 9.48	3.20 - 11.4
Magnesium	2570	2360	8.87	1810 - 2920	1480 - 3250
Manganese	470	456	13.4	375 - 538	350 - 563
Mercury	22.1	18.9	14.5	13.0 - 24.8	11.3 - 26.4
Molybdenum	80.1	72.8	11.0	58.7 - 87.0	50.5 - 95.2
Nickel	143	135	14.2	112 - 158	94.7 - 176
Potassium	2420	2090	8.21	1480 - 2700	1240 - 2940
Selenium	128	121	11.7	96.9 - 146	80.4 - 162
Silver	45.4	44.1	6.69	35.5 - 52.8	30.7 - 57.6
Sodium	161	136	9.34	97.4 - 174	48.1 - 223
Strontium	82.2	82.3	8.42	67.4 - 97.1	58.6 - 106

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Parameter	Certified Value[1]	Reference Value	Uncertainty[2]	QC Performance Acceptance Limits[3]	PT Performance Acceptance Limits[4]
	mg/kg	mg/kg	%	mg/kg	mg/kg
Thallium	154	144	7.54	117 - 171	101 - 187
Tin	89.7	79.8	14.0	62.2 - 97.4	43.5 - 116
Titanium	705	546	10.3	123 - 969	118 - 974
Uranium	29.5	30.9	3.38	23.9 - 37.9	21.3 - 40.5
Vanadium	196	186	14.2	148 - 224	138 - 235
Zinc	307	295	10.4	240 - 351	207 - 384

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Calculation of 7470A Mercury

Calculate Mercury concentration from the daily calibration curve. The curve is generated utilizing a straight-line equation defined as:

$$A = k1 + k2C$$

Where:

A = Average peak height of the sample/standard integrations
C = Sample/Standard Concentration, µg/L
k1 = y-intercept
k2 = slope

The instrument will plot peak height against concentration (µg/L). The result is generated in µg/L . This value is divided by 1000 to convert the units to mg/L. If the sample is diluted (DF), the result is multiplied by the DF to generate the final result.

Result, mg/L = (concentration, µg/L) x (1mg/1000µg) x (DF)

Calculation of 7471B Mercury

Calculate Mercury concentration from the daily calibration curve. The curve is generated utilizing a straight-line equation defined as:

$$A = k1 + k2C$$

Where:

A = Average peak height of the sample/standard integrations
C = Sample/Standard Concentration, µg/L
k1 = y-intercept
k2 = slope

The instrument will plot peak height against concentration (µg/L). The result is generated in µg/L . This value is divided by 1000 to convert the units to mg/L. If the sample is diluted (DF), the result is multiplied by the DF to generate the final result.

Result, mg/L = (concentration, µg/L) x (1mg/1000µg) x (DF)

The result in mg/kg is calculated on a dry weight basis using the sample weight digested(Wt), the final volume of the digestate(FV), and the percent total solids(%TS).

Result, mg/kg, wet = ((result, mg/L) x (FV)) /Wt

Result, mg/kg, dry wt = (Result, mg/kg wet)/(%TS)

No.	Sample No.	NAME
1	1	STD
2	2	STD
3	3	STD
4	4	STD
5	5	STD
6	6	STD
1	7	ICV
2	8	ICB
3	9	0.2PPB
4	10	WG1890484-1 WG1890484
5	11	WG1890484-2 WG1890484
6	12	L2410048-01 WG1890484
7	13	WG1890484-3 WG1890484
8	14	WG1890484-4 WG1890484
9	15	L2410056-01 WG1890484
10	16	L2410005-01 WG1890669
11	17	L2410034-01 WG1890669
12	18	L2410039-01 WG1890669
13	19	Check STD(5ug/L)
14	20	Check Blank
15	21	L2410042-01 WG1890669
16	22	L2410047-01 WG1890669
17	23	L2410272-02 WG1890669
18	24	Check STD(5ug/L)
19	25	Check Blank
20	26	WG1891051-1 WG1891051
21	27	WG1891051-2 WG1891051
22	28	l2410218-01 WG1891051
23	29	WG1891051-3 WG1891051
24	30	WG1891051-4 WG1891051
25	31	Check STD(5ug/L)
26	32	Check Blank
27	33	Check STD(5ug/L)
28	34	Check Blank
29	35	WG1890758-1 WG1890758
30	36	WG1890758-2 WG1890758
31	37	L2410277-03 WG1890758
32	38	WG1890758-3 WG1890758
33	39	WG1890758-4 WG1890758
34	40	L2410119-01 WG1890758
35	41	L2410119-02 WG1890758
36	42	L2410119-03 WG1890758
37	43	Check STD(5ug/L)

38	44	Check Blank
39	45	L2410277-01 WG1890758
40	46	L2410277-02 WG1890758
41	47	L2410277-04 WG1890758
42	48	L2410277-05 WG1890758
43	49	L2410277-06 WG1890758
44	50	L2410277-07 WG1890758
45	51	L2410277-08 WG1890758
46	52	L2410277-09 WG1890758
47	53	L2410277-11 WG1890758
48	54	L2410277-12 WG1890758
49	55	Check STD(5ug/L)
50	56	Check Blank
51	57	XWG1890468-1 WG1890468
52	58	XWG1890468-2 WG1890468
53	59	XL2410258-02 WG1890468
54	60	XWG1890468-3 WG1890468
55	61	XWG1890468-4 WG1890468
56	62	XL2410258-01 WG1890468
57	63	XL2410258-03 WG1890468
58	64	XL2410258-04 WG1890468
59	65	XL2410258-05 WG1890468
60	66	XL2410258-06 WG1890468
61	67	Check STD(5ug/L)
62	68	Check Blank
63	69	XL2410258-07 WG1890468
64	70	XL2410258-08 WG1890468
65	71	XL2410258-09 WG1890468
66	72	XL2410258-10 WG1890468
67	73	XL2410258-11 WG1890468
68	74	XL2410258-12 WG1890468
69	75	XL2410258-13 WG1890468
70	76	XL2410258-14 WG1890468
71	77	XL2410258-15 WG1890468
72	78	XL2410258-16 WG1890468
73	79	Check STD(5ug/L)
74	80	Check Blank
75	1	XCheck STD(5ug/L)
76	2	XCheck Blank
77	3	WG1891175-1 WG1891175
78	4	WG1891175-2 WG1891175
79	5	L2410579-08 WG1891175
80	6	WG1891175-3 WG1891175
81	7	WG1891175-4 WG1891175

82	8	L2410579-01 WG1891175
83	9	L2410579-02 WG1891175
84	10	L2410579-03 WG1891175
85	11	Check STD(5ug/L)
86	12	Check Blank
87	13	L2410579-04 WG1891175
88	14	L2410579-05 WG1891175
89	15	L2410579-06 WG1891175
90	16	L2410579-07 WG1891175
91	17	L2410579-09 WG1891175
92	18	L2410579-10 WG1891175
93	19	L2410744-01 WG1891175
94	20	L2410744-02 WG1891175
95	21	L2410744-03 WG1891175
96	23	Check STD(5ug/L)
97	24	Check Blank
98	25	WG1890910-1 WG1890910
99	26	WG1890910-2 WG1890910
100	27	l2410566-02 WG1890910
101	28	WG1890910-3 WG1890910
102	29	WG1890910-4 WG1890910
103	30	l2410566-01 WG1890910
104	31	WG1891067-1 WG1891067
105	32	WG1891067-2 WG1891067
106	33	L2410341-01 WG1891067
107	34	WG1891067-3 WG1891067
108	35	Check STD(5ug/L)
109	36	Check Blank
110	37	WG1891067-4 WG1891067
111	38	L2410341-02 WG1891067
112	39	L2410426-07 WG1891067
113	40	Check STD(5ug/L)
114	41	Check Blank

No.	Sample No.	NAME
1	1	STD
2	2	STD
3	3	STD
4	4	STD
5	5	STD
6	6	STD
1	7	ICV
2	8	ICB
3	9	0.2 PPB
4	10	L2410192-01 WG1890484
5	11	L2410429-01 WG1890484
6	12	L2410429-02 WG1890484
7	13	L2410429-03 WG1890484
8	14	L2410430-01 WG1890484
9	15	L2410430-03 WG1890484
10	16	L2410430-04 WG1890484
11	17	L2410430-05 WG1890484
12	18	XL2410430-06 WG1890484
13	19	Check STD(5ug/L)
14	20	Check Blank
15	21	XL2410430-07 WG1890484
16	22	XL2410430-08 WG1890484
17	23	XL2410430-09 WG1890484
18	24	XL2410430-10 WG1890484
19	25	XL2410430-12 WG1890484
20	26	WG1891933-1 WG1891933
21	27	WG1891933-2 WG1891933
22	28	L2410449-01 WG1891933
23	29	WG1891933-3 WG1891933
24	30	WG1891933-4 WG1891933
25	31	Check STD(5ug/L)
26	32	Check Blank
27	33	L2410677-01 WG1891933
28	34	WG1891933-5 WG1891933
29	35	WG1891933-6 WG1891933
30	36	L2410504-09 WG1891933
31	37	L2410871-01 WG1891933
32	38	WG1891191-1 WG1891191
33	39	WG1891191-2 WG1891191
34	40	l2408819-02 WG1891191
35	41	WG1891191-3 WG1891191
36	42	WG1891191-4 WG1891191
37	43	Check STD(5ug/L)

38	44	Check Blank
39	45	l2408819-04 WG1891191
40	46	WG1891134-1 WG1891134
41	47	WG1891134-2 WG1891134
42	48	L2406601-01 WG1891134
43	49	WG1891134-3 WG1891134
44	50	WG1891134-4 WG1891134
45	51	L2410129-01 WG1891134
46	52	L2410129-02 WG1891134
47	53	L2410129-03 WG1891134
48	54	L2410129-04 WG1891134
49	55	Check STD(5ug/L)
50	56	Check Blank
51	57	L2410487-01 WG1891134
52	58	WG1890886-1 WG1890886
53	59	WG1890886-2 WG1890886
54	60	l2410747-01 WG1890886
55	61	WG1890886-3 WG1890886
56	62	WG1890886-4 WG1890886
57	63	l2410455-01 WG1890886
58	64	l2410460-01 WG1890886
59	65	l2410464-01 WG1890886
60	66	l2410466-01 WG1890886
61	67	Check STD(5ug/L)
62	68	Check Blank
63	69	l2410471-01 WG1890886
64	70	l2410573-17 WG1890886
65	71	WG1890902-1 WG1890902
66	72	WG1890902-2 WG1890902
67	73	l2410430-01 WG1890902
68	74	WG1890902-3 WG1890902
69	75	WG1890902-4 WG1890902
70	76	l2410429-01 WG1890902
71	77	l2410429-02 WG1890902
72	78	l2410429-03 WG1890902
73	79	Check STD(5ug/L)
74	80	Check Blank
75	1	l2410430-03 WG1890902
76	2	l2410430-04 WG1890902
77	3	l2410430-05 WG1890902
78	4	l2410430-06 WG1890902
79	5	l2410430-07 WG1890902
80	6	l2410430-08 WG1890902
81	7	WG1891299-1 WG1891299

82	8	WG1891299-2 WG1891299
83	9	L2410485-02 WG1891299
84	10	WG1891299-3 WG1891299
85	11	Check STD(5ug/L)
86	12	Check Blank
87	13	WG1891299-4 WG1891299
88	14	WG1891326-1 WG1891326
89	15	WG1891326-2 WG1891326
90	16	l2410579-08 WG1891326
91	17	WG1891326-3 WG1891326
92	18	WG1891326-4 WG1891326
93	19	l2410579-01 WG1891326
94	20	l2410579-02 WG1891326
95	21	l2410579-03 WG1891326
96	22	l2410579-04 WG1891326
97	23	Check STD(5ug/L)
98	24	Check Blank
99	25	l2410579-05 WG1891326
100	26	l2410579-06 WG1891326
101	27	l2410579-07 WG1891326
102	28	l2410579-09 WG1891326
103	29	l2410579-10 WG1891326
104	30	WG1891915-1 WG1891915
105	31	WG1891915-2 WG1891915
106	32	L2410506-01 WG1891915
107	33	WG1891915-3 WG1891915
108	34	WG1891915-4 WG1891915
109	35	Check STD(5ug/L)
110	36	Check Blank
111	37	L2410415-02 WG1891915
112	38	L2410506-02 WG1891915
113	39	L2410793-01 WG1891915
114	40	WG1891909-1 WG1891909
115	41	WG1891909-2 WG1891909
116	42	L2410415-01 WG1891909
117	43	WG1891909-3 WG1891909
118	44	WG1891909-4 WG1891909
119	45	L2410888-03 WG1891909
120	46	L2410888-06 WG1891909
121	47	Check STD(5ug/L)
122	48	Check Blank
123	49	WG1891941-1 WG1891941
124	50	WG1891941-2 WG1891941
125	51	l2410745-02 WG1891941

126	52	WG1891941-3 WG1891941
127	53	WG1891941-4 WG1891941
128	54	l2410745-01 WG1891941
129	55	WG1891941-5 WG1891941
130	56	WG1891941-6 WG1891941
131	57	l2410573-17 WG1891941
132	59	Check STD(5ug/L)
133	60	Check Blank

METALS ELN REPORT

Workgroup: WG1891175

Digestion

Prep Method	Acid Type 1	Acid 1 Lot	Acid Type 2	Acid 2 Lot	Spike Type	Lims Spike Lot	Spike Lot	Post Spike Spikelot	Spike Lot	Pipette Id
EPA 7470A	HNO3	24006436	H2SO4	22320078	METALS	METSPIKE	HG24071522 05HCRV1	METSPIKE	HG24071522 05HCRV1	320, 344

Additional Reagent/Std	K2O8S2	PS2409291731RC
	KMnO4	PP2409281130JDH
	NaCl-NH2OH.HCl	HH2408231859DJR
		ICV2408211030JDH

Sample/ Type	Digestion Date	Analyst	Sample Vol ml	Spike Amt ml	Start Date/Time	Hot Block Unit	Temperature (C)	Stop Date/Time	Final Vol	Comments
L2410579-01 WATER	03/01/24 13:48	Raldi Cabral	25		03/01/24 13:48	8	96.0	03/01/24 15:48	25	
L2410579-02 WATER	03/01/24 13:48	Raldi Cabral	25		03/01/24 13:48	8	96.0	03/01/24 15:48	25	
L2410579-03 WATER	03/01/24 13:48	Raldi Cabral	25		03/01/24 13:48	8	96.0	03/01/24 15:48	25	
L2410579-04 WATER	03/01/24 13:48	Raldi Cabral	25		03/01/24 13:48	8	96.0	03/01/24 15:48	25	
L2410579-05 WATER	03/01/24 13:48	Raldi Cabral	25		03/01/24 13:48	8	96.0	03/01/24 15:48	25	
L2410579-06 WATER	03/01/24 13:48	Raldi Cabral	25		03/01/24 13:48	8	96.0	03/01/24 15:48	25	
L2410579-07 WATER	03/01/24 13:48	Raldi Cabral	25		03/01/24 13:48	8	96.0	03/01/24 15:48	25	
L2410579-08 WATER	03/01/24 13:48	Raldi Cabral	25		03/01/24 13:48	8	96.0	03/01/24 15:48	25	
L2410579-09 WATER	03/01/24 13:48	Raldi Cabral	25		03/01/24 13:48	8	96.0	03/01/24 15:48	25	
L2410579-10 WATER	03/01/24 13:48	Raldi Cabral	25		03/01/24 13:48	8	96.0	03/01/24 15:48	25	
L2410744-01 SAMP	03/01/24 13:48	Raldi Cabral	25		03/01/24 13:48	8	96.0	03/01/24 15:48	25	
L2410744-02 SAMP	03/01/24 13:48	Raldi Cabral	25		03/01/24 13:48	8	96.0	03/01/24 15:48	25	

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METALS ELN REPORT

Workgroup: WG1891175

Sample/ Type	Digestion Date	Analyst	Sample Vol ml	Spike Amt ml	Start Date/Time	Hot Block Unit	Temperature (C)	Stop Date/Time	Final Vol	Comments
L2410744-03 SAMP	03/01/24 13:48	Raldi Cabral	25		03/01/24 13:48	8	96.0	03/01/24 15:48	25	
WG1891175-1 BLANK	03/01/24 13:48	Raldi Cabral	25		03/01/24 13:48	8	96.0	03/01/24 15:48	25	
WG1891175-2 LCS	03/01/24 13:48	Raldi Cabral	25	.250	03/01/24 13:48	8	96.0	03/01/24 15:48	25	eln: HCR
WG1891175-3 MS	03/01/24 13:48	Raldi Cabral	25	1.25	03/01/24 13:48	8	96.0	03/01/24 15:48	25	
WG1891175-4 MSD	03/01/24 13:48	Raldi Cabral	25	1.25	03/01/24 13:48	8	96.0	03/01/24 15:48	25	

Reagent	Actual Volume	Units
Sulfuric Acid (H2SO4)	1.25	ml
Nitric Acid (HNO3)	.625	ml
Potassium Permanganat	3.75	ml
Potassium Persulfate (K	2	ml
NaCl-Hydroxylamine Hy	1.5	ml

Reported: 04-NOV-24 11:54 AM

METALS ELN REPORT

Workgroup: WG1891326

Digestion

Prep Method	Acid Type 1	Acid 1 Lot	Acid Type 2	Acid 2 Lot	Spike Type	Lims Spike Lot	Spike Lot	Post Spike Spikelot	Spike Lot	Pipette Id
EPA 7470A	HNO3	24006436	H2SO4	22320078	METALS	METSPIKE	HG240715 2205HCRV1	METSPIKE	ICV240821 1030JDH	320, 344

Additional Reagent/Std	K2O8S2	PS2409291731RC
	KMnO4	PP2409011255JDH
	NaCl-NH2OH.HCl	HH2408231859DJR

Sample/ Type	Digestion Date	Analyst	Lab Filtration Date	Sample Vol ml	Spike Amt	Start Date/Time	Hot Block Unit	Temperature (C)	Stop Date/Time	Final Vol	Comments
L2410579-01 WATER	03/02/24 00:45	Brandon Siah	NA	25		03/02/24 00:45	5	95	03/02/24 02:45	25	ALL CONTAINER L
L2410579-02 WATER	03/02/24 00:45	Brandon Siah	NA	25		03/02/24 00:45	5	95	03/02/24 02:45	25	
L2410579-03 WATER	03/02/24 00:45	Brandon Siah	NA	25		03/02/24 00:45	5	95	03/02/24 02:45	25	
L2410579-04 WATER	03/02/24 00:45	Brandon Siah	NA	25		03/02/24 00:45	5	95	03/02/24 02:45	25	
L2410579-05 WATER	03/02/24 00:45	Brandon Siah	NA	25		03/02/24 00:45	5	95	03/02/24 02:45	25	
L2410579-06 WATER	03/02/24 00:45	Brandon Siah	NA	25		03/02/24 00:45	5	95	03/02/24 02:45	25	
L2410579-07 WATER	03/02/24 00:45	Brandon Siah	NA	25		03/02/24 00:45	5	95	03/02/24 02:45	25	
L2410579-08 WATER	03/02/24 00:45	Brandon Siah	NA	25		03/02/24 00:45	5	95	03/02/24 02:45	25	
L2410579-09 WATER	03/02/24 00:45	Brandon Siah	NA	25		03/02/24 00:45	5	95	03/02/24 02:45	25	
L2410579-10 WATER	03/02/24 00:45	Brandon Siah	NA	25		03/02/24 00:45	5	95	03/02/24 02:45	25	
WG1891326-1 BLANK	03/02/24 00:45	Brandon Siah	NA	25		03/02/24 00:45	5	95	03/02/24 02:45	25	ELN: HCR
WG1891326-2 LCS	03/02/24 00:45	Brandon Siah	NA	25	.250	03/02/24 00:45	5	95	03/02/24 02:45	25	

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METALS ELN REPORT

Workgroup: WG1891326

Sample/ Type	Digestion Date	Analyst	Lab Filtration Date	Sample Vol	Spike Amt ml	Start Date/Time	Hot Block Unit	Temperature (C)	Stop Date/Time	Final Vol	Comments
WG1891326-3 MS	03/02/24 00:45	Brandon Siah	NA	25	1.250	03/02/24 00:45	5	95	03/02/24 02:45	25	
WG1891326-4 MSD	03/02/24 00:45	Brandon Siah	NA	25	1.250	03/02/24 00:45	5	95	03/02/24 02:45	25	

Reagent	Actual Volume	Units
Sulfuric Acid (H2SO4)	1.25	ml
Nitric Acid (HNO3)	.625	ml
Potassium Permanganat	3.75	ml
Potassium Persulfate (K:	2	ml
NaCl-Hydroxylamine Hy	1.5	ml

Reported: 04-NOV-24 11:54 AM

Wet Chemistry

Total Nitrogen Analysis

Results

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2410579-01	**Date Collected**	: 02/26/24 14:10
Client ID	: MW-1S	**Date Received**	: 02/27/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 03/05/24 14:45
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 107,-	**Analyst**	: MRM
Lab File ID	: WG1892440.csv	**Instrument ID**	:
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Total Nitrogen	2.1	0.30	0.30	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2410579-02	**Date Collected**	: 02/26/24 15:25
Client ID	: MW-2S	**Date Received**	: 02/27/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 03/05/24 14:45
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 107,-	**Analyst**	: MRM
Lab File ID	: WG1892440.csv	**Instrument ID**	:
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Total Nitrogen	1.8	0.30	0.30	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2410579-03	**Date Collected**	: 02/26/24 16:30
Client ID	: MW-3S	**Date Received**	: 02/27/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 03/05/24 14:45
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 107,-	**Analyst**	: MRM
Lab File ID	: WG1892440.csv	**Instrument ID**	:
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Total Nitrogen	6.9	0.30	0.30	

Form 1
WETCHEM

Client	:	**Alpha Geoscience**	**Lab Number**	:	**L2410579**
Project Name	:	**HUNTINGTON READY MIX**	**Project Number**	:	**20116**
Lab ID	:	**L2410579-04**	**Date Collected**	:	**02/27/24 09:05**
Client ID	:	**MW-4D**	**Date Received**	:	**02/27/24**
Sample Location	:	**SPEONK, NY**	**Date Analyzed**	:	**03/05/24 14:45**
Sample Matrix	:	**WATER**	**Dilution Factor**	:	**1**
Analytical Method	:	**107,-**	**Analyst**	:	**MRM**
Lab File ID	:	**WG1892440.csv**	**Instrument ID**	:	
Sample Amount	:		**%Solids**	:	**N/A**
Digestion Method	:		**Date Digested**	:	

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	**Total Nitrogen**	**0.52**	**0.30**	**0.30**	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2410579-05	**Date Collected**	: 02/27/24 08:40
Client ID	: MW-5S	**Date Received**	: 02/27/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 03/05/24 14:45
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 107,-	**Analyst**	: MRM
Lab File ID	: WG1892440.csv	**Instrument ID**	:
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Total Nitrogen	4.1	0.30	0.30	

Form 1
WETCHEM

Client	:	**Alpha Geoscience**	**Lab Number**	:	**L2410579**
Project Name	:	**HUNTINGTON READY MIX**	**Project Number**	:	**20116**
Lab ID	:	**L2410579-06**	**Date Collected**	:	**02/26/24 16:35**
Client ID	:	**MW-6D**	**Date Received**	:	**02/27/24**
Sample Location	:	**SPEONK, NY**	**Date Analyzed**	:	**03/05/24 14:45**
Sample Matrix	:	**WATER**	**Dilution Factor**	:	**1**
Analytical Method	:	**107,-**	**Analyst**	:	**MRM**
Lab File ID	:	**WG1892440.csv**	**Instrument ID**	:	
Sample Amount	:		**%Solids**	:	**N/A**
Digestion Method	:		**Date Digested**	:	

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	**Total Nitrogen**	**3.4**	**0.30**	**0.30**	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2410579-07	**Date Collected**	: 02/26/24 14:45
Client ID	: MW-7S	**Date Received**	: 02/27/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 03/05/24 14:45
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 107,-	**Analyst**	: MRM
Lab File ID	: WG1892440.csv	**Instrument ID**	:
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Total Nitrogen	6.2	0.30	0.30	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2410579-08	**Date Collected**	: 02/27/24 10:25
Client ID	: MW-8S	**Date Received**	: 02/27/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 03/05/24 14:45
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 107,-	**Analyst**	: MRM
Lab File ID	: WG1892440.csv	**Instrument ID**	:
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Total Nitrogen	0.68	0.30	0.30	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2410579-09	**Date Collected**	: 02/26/24 00:00
Client ID	: DUP	**Date Received**	: 02/27/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 03/05/24 14:45
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 107,-	**Analyst**	: MRM
Lab File ID	: WG1892440.csv	**Instrument ID**	:
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Total Nitrogen	3.5	0.30	0.30	

Sample Raw Data

ALPHA ANALYTICAL LABS

WET CHEMISTRY DEPARTMENT

TOTAL NITROGEN

Last Change 3/5/13 GFF
File tnitrogen.xlt

Sample #: _____

Client: _____

Analysis: Total Nitrogen

Method: *Calculation from TKN & NO3/NO2*

Product: TNITROGEN
Analyte: Total Nitrogen,
Analysis Date: 3/5/2024 14:45
Technician: MRM
Work group: WG1892440
RL: 0.3 mg/L

	Sample Number	TKN (mg/L)	NO3/NO2 (mg/L)	RL Multiplier	Result (mg/L)
SAMP	L2410530-01	0.717	0.55	1.0	1.267
	L2410579-01	2.13	0.08	1.0	2.13
	L2410579-02	0.304	1.5	1.0	1.804
	L2410579-03	0.23	6.9	1.0	6.9
	L2410579-04	0.143	0.52	1.0	0.52
	L2410579-05	0.254	4.1	1.0	4.1
	L2410579-06	3.15	0.29	1.0	3.44
	L2410579-07	0.353	5.8	1.0	6.153
	L2410579-08	0.41	0.27	1.0	0.68
	L2410579-09	3.22	0.26	1.0	3.48

Calculations of Total Nitrogen

Calculate the concentration value based on results for TKN-N and N03/NO2-N.

Aqueous samples:

mgTN-N/L = TKN-N(mg/l) + NO3/NO2-N (mg/l)

Soil samples:

mgTN-N/Kg = TKN-N(mg/Kg) + NO3/NO2-N(mg/Kg)

Total Kjeldahl Nitrogen Analysis

Results

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2410579-01	**Date Collected**	: 02/26/24 14:10
Client ID	: MW-1S	**Date Received**	: 02/27/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 03/01/24 19:54
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500NH3-H	**Analyst**	: AT
Lab File ID	: NH320240301-E2	**Instrument ID**	: LACHAT
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 02/29/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Total Kjeldahl	2.13	0.300	0.066	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2410579-02	**Date Collected**	: 02/26/24 15:25
Client ID	: MW-2S	**Date Received**	: 02/27/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 03/01/24 17:53
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500NH3-H	**Analyst**	: AT
Lab File ID	: NH320240301-C	**Instrument ID**	: LATCHAT5
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 03/01/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Total Kjeldahl	0.304	0.300	0.066	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2410579-03	**Date Collected**	: 02/26/24 16:30
Client ID	: MW-3S	**Date Received**	: 02/27/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 03/01/24 17:56
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500NH3-H	**Analyst**	: AT
Lab File ID	: NH320240301-C	**Instrument ID**	: LATCHAT5
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 03/01/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Total Kjeldahl	0.230	0.300	0.066	J

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2410579-04	**Date Collected**	: 02/27/24 09:05
Client ID	: MW-4D	**Date Received**	: 02/27/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 03/01/24 17:57
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500NH3-H	**Analyst**	: AT
Lab File ID	: NH320240301-C	**Instrument ID**	: LATCHAT5
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 03/01/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Total Kjeldahl	0.143	0.300	0.066	J

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2410579-05	**Date Collected**	: 02/27/24 08:40
Client ID	: MW-5S	**Date Received**	: 02/27/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 03/01/24 17:58
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500NH3-H	**Analyst**	: AT
Lab File ID	: NH320240301-C	**Instrument ID**	: LATCHAT5
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 03/01/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Total Kjeldahl	0.254	0.300	0.066	J

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2410579-06	**Date Collected**	: 02/26/24 16:35
Client ID	: MW-6D	**Date Received**	: 02/27/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 03/01/24 17:59
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500NH3-H	**Analyst**	: AT
Lab File ID	: NH320240301-C	**Instrument ID**	: LATCHAT5
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 03/01/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Total Kjeldahl	3.15	0.300	0.066	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2410579-07	**Date Collected**	: 02/26/24 14:45
Client ID	: MW-7S	**Date Received**	: 02/27/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 03/01/24 18:00
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500NH3-H	**Analyst**	: AT
Lab File ID	: NH320240301-C	**Instrument ID**	: LATCHAT5
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 03/01/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Total Kjeldahl	0.353	0.300	0.066	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2410579-08	**Date Collected**	: 02/27/24 10:25
Client ID	: MW-8S	**Date Received**	: 02/27/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 03/01/24 18:01
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500NH3-H	**Analyst**	: AT
Lab File ID	: NH320240301-C	**Instrument ID**	: LATCHAT5
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 03/01/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Total Kjeldahl	0.410	0.300	0.066	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2410579-09	**Date Collected**	: 02/26/24 00:00
Client ID	: DUP	**Date Received**	: 02/27/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 03/01/24 18:01
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500NH3-H	**Analyst**	: AT
Lab File ID	: NH320240301-C	**Instrument ID**	: LATCHAT5
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 03/01/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Total Kjeldahl	3.22	0.300	0.066	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: WG1890776-1	**Date Collected**	: NA
Client ID	: WG1890776-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 03/01/24 19:29
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500NH3-H	**Analyst**	: AT
Lab File ID	: NH320240301-E	**Instrument ID**	: LACHAT
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 02/29/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Total Kjeldahl	ND	0.300	0.022	U

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: WG1890776-3	**Date Collected**	: 02/26/24 14:10
Client ID	: MW-1SDUP	**Date Received**	: 02/27/24
Sample Location	:	**Date Analyzed**	: 03/01/24 19:56
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500NH3-H	**Analyst**	: AT
Lab File ID	: NH320240301-E2	**Instrument ID**	: LACHAT
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 02/29/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Total Kjeldahl	2.11	0.300	0.066	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: WG1890943-1	**Date Collected**	: NA
Client ID	: WG1890943-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 03/01/24 17:41
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500NH3-H	**Analyst**	: AT
Lab File ID	: NH320240301-C	**Instrument ID**	: LATCHAT5
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 03/01/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Total Kjeldahl	0.150	0.300	0.022	J

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: WG1890943-3	**Date Collected**	: 02/26/24 15:25
Client ID	: MW-2SDUP	**Date Received**	: 02/27/24
Sample Location	:	**Date Analyzed**	: 03/01/24 17:55
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500NH3-H	**Analyst**	: AT
Lab File ID	: NH320240301-C	**Instrument ID**	: LATCHAT5
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 03/01/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Total Kjeldahl	0.454	0.300	0.066	

Sample Raw Data

Author: A1WETCHEMINSTRUMENT

Date : 3/1/2024

Original Run Filename: OM_3-1-2024_03-55-02PM.OMN Created: 3/1/2024 3:55:02 PM
Original Run Author's Signature: [A1WETCHEMINSTRUMENT]
Current Run Filename: OM_3-1-2024_03-55-02PM.OMN Last Modified: 3/1/2024 4:41:40 PM
Current Run Author's Signature: [A1WETCHEMINSTRUMENT]
Description: Default New Run

A

Sample	Rep.	Cup No.	Channel 2 Ammonia (mg N/L)	ADF	MDF	Weight	
STD 1	1	S1	10.00000				
STD 2	1	S2	8.00000				
STD 3	1	S3	4.00000				
STD 4	1	S4	2.00000				
STD 5	1	S5	1.00000				
STD 6	1	S6	0.40000				
STD 7	1	S7	0.20000				
STD 8	1	S8	0.10000				
STD 9	1	S9	0.05000				
STD 10	1	S10	0.00000				
CCV 0.4000	1	S6	0.38843				
	Known Conc:		100.00000				
	Calibration:		Table/Fig. : 1				
CCV 4.0000	1	S3	4.00081				
	Known Conc:		100.00000				
CCB	1	S10	0.03393				
	Known Conc:		100.00000				
HI ICV 8.0	1	1	8.05899				101%
LO ICV 1.0	1	2	0.97928				98%
ICB	1	3	0.01272				
WG1890718-1 T; BLK 2/29	1	4	0.02244				
WG1890718-2 T; HI LCS; 5X	1	5	40.84455		15.00		102%
LO LCS T	1	6	3.98829		3.00		100%
L2410108-01 T	1	7	11.93651		3.00		
L2410108-02 T	1	8	5.10737		3.00		
L2410318-01 T	1	9	10.55241		3.00		
L2410446-04 T	1	10	0.37169		3.00		
CCV 0.4000	1	S6	0.40758				
	Known Conc:		100.00000				
CCV 4.0000	1	S3	4.07455				
	Known Conc:		100.00000				
CCB	1	S10	0.02069				
	Known Conc:		100.00000				
L2410446-05 T	1	11	0.47056		3.00		
L2410106-01 T	1	12	1.22342		3.00		
L2410106-02 T	1	13	8.93569		3.00		
L2410106-03 T	1	14	0.64181		3.00		
L2410107-01 T	1	15	1.22829		3.00		
L2410107-02 T	1	16	0.83186		3.00		
L2410487-01 T	1	17	0.25083		3.00		
L2410530-01 T	1	18	0.71724		3.00		99%
WG1890718-4 T; 10530.1 MS	1	19	8.60356		3.00		96% (LC+HL)
WG1890718-3 T; 10530.1 DUP	1	20	0.93466		3.00		
CCV 0.4000	1	S6	0.40527				
	Known Conc:		100.00000				
CCV 4.0000	1	S3	4.06869				
	Known Conc:		100.00000				
CCB	1	S10	0.02251				
	Known Conc:		100.00000				
L2410109-01 T	1	21	1.37778		3.00		
L2410507-01 T	1	22	0.05388		3.00		
L2410507-03 T	1	23	0.14349		3.00		
CCV 0.4000	1	S6	0.39442				
	Known Conc:		100.00000				
CCV 4.0000	1	S3	4.06512				
	Known Conc:		100.00000				
CCB	1	S10	0.01680				
	Known Conc:		100.00000				

Author: A1WETCHEMINSTRUMENT

Date : 3/1/2024

Channel 2 (Ammonia High) - Current View

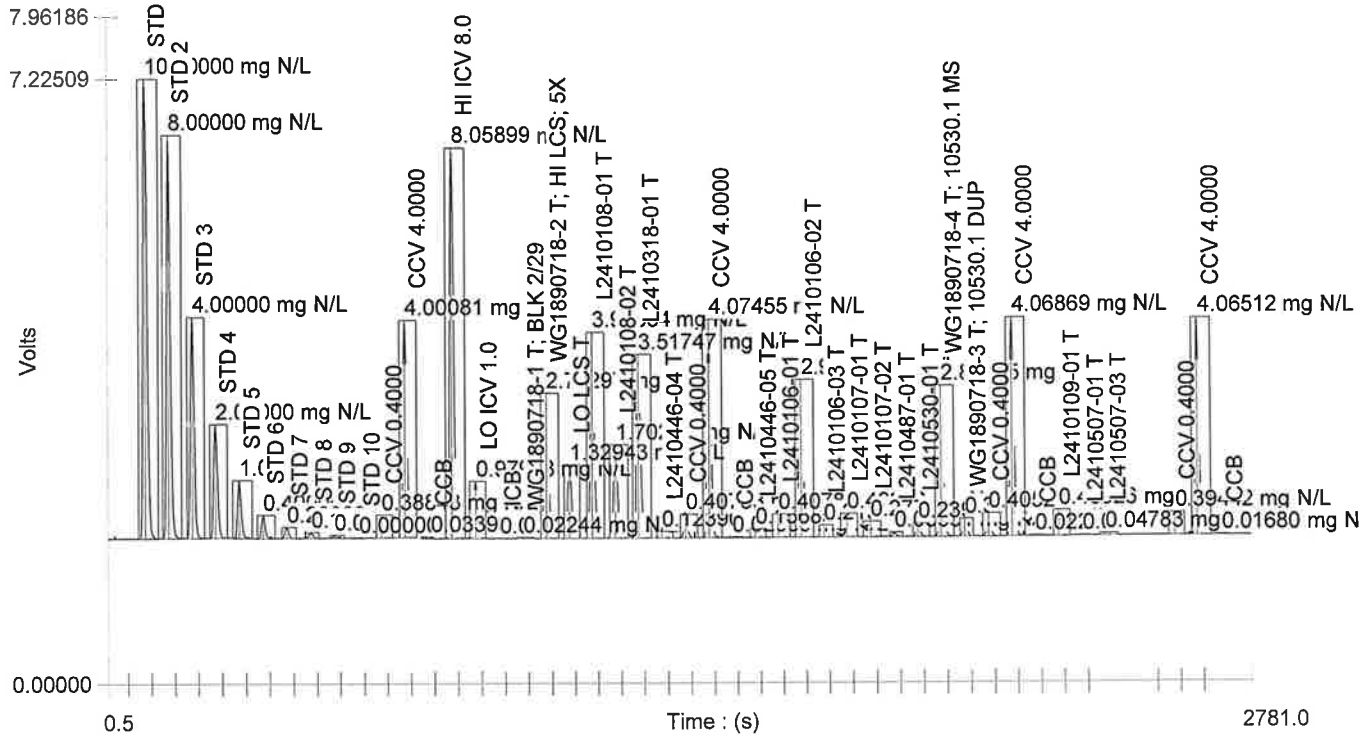


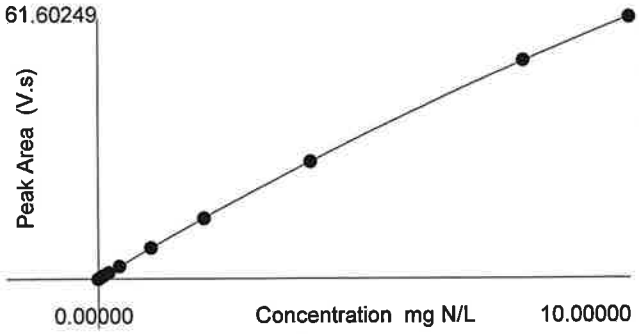
Table : 1 (Ammonia)

	Known Conc. (mg N/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg N/L)	Detection Date	Detection Time
1	10.00000	1	61.60249	5.48110	0.0	0.1	9.94197	3/1/2024	3:56:04 PM
2	8.00000	1	51.49138	4.80787	0.0	-0.3	8.06775	3/1/2024	3:57:00 PM
3	4.00000	1	27.56353	2.64580	0.0	0.2	4.01272	3/1/2024	3:57:58 PM
4	2.00000	1	14.17308	1.36006	0.0	0.8	1.97677	3/1/2024	3:58:55 PM
5	1.00000	1	7.25077	0.69033	0.0	0.1	0.98992	3/1/2024	3:59:53 PM
6	0.40000	1	2.95680	0.27827	0.0	-1.3	0.40025	3/1/2024	4:00:51 PM
7	0.20000	1	1.44765	0.13523	0.0	0.4	0.19710	3/1/2024	4:01:48 PM
8	0.10000	1	0.74642	0.07104	0.0	-4.1	0.10343	3/1/2024	4:02:47 PM
9	0.05000	1	0.39562	0.03662	0.0	-13.8	0.05674	3/1/2024	4:03:45 PM
10	0.00000	1	-0.08440	-0.00477			-0.00696	3/1/2024	4:04:41 PM

Author: A1WETCHEMINSTRUMENT

Date : 3/1/2024

Figure : 1 (Ammonia)



Area = - 0.12334 * Conc^2 + 7.40477 * Conc - 0.02225
Conc = 0.00047 * Area^2 + 0.13256 * Area + 0.00422
Correlation Coefficient (r) = 1.00000

Weighting : 1/x

Author: A1WETCHEMINSTRUMENT

Date : 3/1/2024

Original Run Filename: OM_3-1-2024_04-59-39PM.OMN Created: 3/1/2024 4:59:39 PM
Original Run Author's Signature: [A1WETCHEMINSTRUMENT]
Current Run Filename: OM_3-1-2024_04-59-39PM.OMN Last Modified: 3/1/2024 5:36:41 PM
Current Run Author's Signature: [A1WETCHEMINSTRUMENT]
Description: Default New Run

B

Sample	Rep.	Cup No.	Channel 2 Ammonia (mg N/L)	ADF	MDF	Weight
CCV 0.4000	1	S6	0.37847			
	Known Conc:		100.00000			
	Calibration:		Table/Fig. : 1			
CCV 4.0000	1	S3	4.02346			
	Known Conc:		100.00000			
CCB	1	S10	0.01743			
	Known Conc:		100.00000			
WG1890944-1; BLK 3/1	1	1	0.00819		1.50	
WG1890944-2; HI LCS; 5X	1	2	19.45352		7.50	97%
LO LCS	1	3	1.70327		1.50	85%
L2410653-01	1	4	0.35944		1.50	
L2410653-02	1	5	0.88816		1.50	
L2410653-03	1	6	0.22804		1.50	85%
WG1890945-4; 10653.3 MS	1	7	3.62792		1.50	
WG1890945-3; 10653.3 DUP	1	8	0.27281		1.50	15% (RPD)
L2410717-01	1	9	4.22555		1.50	
L2410717-02	1	10	0.10308		1.50	
CCV 0.4000	1	S6	0.39528			
	Known Conc:		100.00000			
CCV 4.0000	1	S3	4.02736			
	Known Conc:		100.00000			
CCB	1	S10	0.02274			
	Known Conc:		100.00000			
L2411124-01	1	11	0.34706		1.50	
L2410579-01	1	12	1.36709		1.50	
WG1890944-4; 10579.1 MS	1	13	5.18015		1.50	95%
WG1890944-3; 10579.1 DUP	1	14	1.48809		1.50	9%
L2410579-02	1	15	0.05251		1.50	
L2410579-03	1	16	0.09946		1.50	
L2410579-04	1	17	0.03041		1.50	
L2410579-05	1	18	0.01484		1.50	
L2410579-06	1	19	2.89957		1.50	
L2410579-07	1	20	0.04519		1.50	
CCV 0.4000	1	S6	0.39132			
	Known Conc:		100.00000			
CCV 4.0000	1	S3	4.02008			
	Known Conc:		100.00000			
CCB	1	S10	0.02313			
	Known Conc:		100.00000			
L2410579-08	1	21	0.01534		1.50	
L2410579-09	1	22	3.09299		1.50	
L2410892-01	1	23	0.10116		1.50	
CCV 0.4000	1	S6	0.38960			
	Known Conc:		100.00000			
CCV 4.0000	1	S3	4.03350			
	Known Conc:		100.00000			
CCB	1	S10	0.02134			
	Known Conc:		100.00000			

Author: A1WETCHEMINSTRUMENT

Date : 3/1/2024

Channel 2 (Ammonia High) - Current View

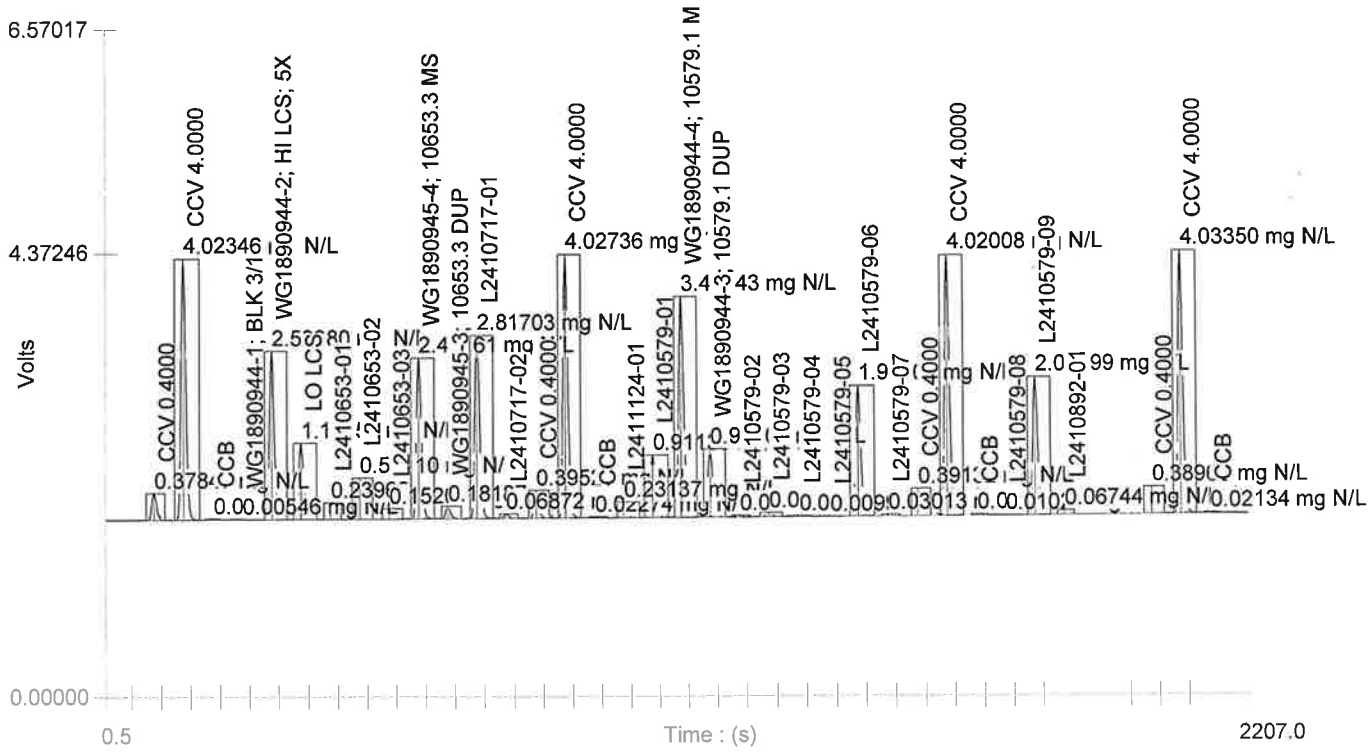
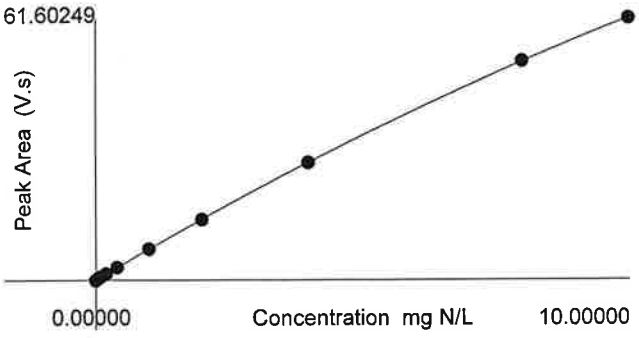


Table : 1 (Ammonia)

	Known Conc. (mg N/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg N/L)	Detection Date	Detection Time
1	10.00000	1	61.60249	5.48110	0.0	0.1	9.94197	3/1/2024	3:56:04 PM
2	8.00000	1	51.49138	4.80787	0.0	-0.3	8.06775	3/1/2024	3:57:00 PM
3	4.00000	1	27.56353	2.64580	0.0	0.2	4.01272	3/1/2024	3:57:58 PM
4	2.00000	1	14.17308	1.36006	0.0	0.8	1.97677	3/1/2024	3:58:55 PM
5	1.00000	1	7.25077	0.69033	0.0	0.1	0.98992	3/1/2024	3:59:53 PM
6	0.40000	1	2.95680	0.27827	0.0	-1.3	0.40025	3/1/2024	4:00:51 PM
7	0.20000	1	1.44765	0.13523	0.0	0.4	0.19710	3/1/2024	4:01:48 PM
8	0.10000	1	0.74642	0.07104	0.0	-4.1	0.10343	3/1/2024	4:02:47 PM
9	0.05000	1	0.39562	0.03662	0.0	-13.8	0.05674	3/1/2024	4:03:45 PM
10	0.00000	1	-0.08440	-0.00477			-0.00696	3/1/2024	4:04:41 PM

Figure : 1 (Ammonia)



Area = - 0.12334 * Conc^2 + 7.40477 * Conc - 0.02225
Conc = 0.00047 * Area^2 + 0.13256 * Area + 0.00422
Correlation Coefficient (r) = 1.00000

Weighting : 1/x

Author: A1WETCHEMINSTRUMENT

Date : 3/1/2024

Original Run Filename: OM_3-1-2024_05-37-18PM.OMN Created: 3/1/2024 5:37:18 PM
Original Run Author's Signature: [A1WETCHEMINSTRUMENT]
Current Run Filename: OM_3-1-2024_05-37-18PM.OMN Last Modified: 3/1/2024 6:08:36 PM
Current Run Author's Signature: [A1WETCHEMINSTRUMENT]
Description: Default New Run

Sample	Rep.	Cup No.	Channel 2 Ammonia (mg N/L)	ADF	MDF	Weight
CCV 0.4000	1	S6	0.38835			
	Known Conc:		100.00000			
CCV 4.0000	1	S3	4.02377			
	Known Conc:		100.00000			
	Calibration:		Table/Fig. : 1			
CCB	1	S10	0.01895			
	Known Conc:		100.00000			
WG1890943-1 T; BLK 3/1	1	1	0.05004			99%
WG1890943-2 T; HI LCS; 5X	1	2	39.77605		15.00	
LO LCS T	1	3	4.16972		3.00	104%
L2410914-01 T	1	4	11.50916		3.00	
L2411052-01 T	1	5	6.39773		15.00	
L2411054-01 T	1	6	4.40090		3.00	
L2410769-01 T	1	7	0.32647		3.00	
L2410769-02 T	1	8	0.12261		3.00	
L2410717-01 T	1	9	8.88326		15.00	
L2410717-02 T	1	10	0.78847		3.00	
CCV 0.4000	1	S6	0.39860			
	Known Conc:		100.00000			
CCV 4.0000	1	S3	4.01352			
	Known Conc:		100.00000			
CCB	1	S10	0.02603			
	Known Conc:		100.00000			
L2410579-02 T	1	11	0.30388		3.00	87%
WG1890943-4 T; 10579.2 MS	1	12	7.21951		3.00	
WG1890943-3 T; 10579.2 DUP	1	13	0.45415		3.00	90% (RPD)
L2410579-03 T	1	14	0.23004		3.00	
L2410579-04 T	1	15	0.14316		3.00	
L2410579-05 T	1	16	0.25369		3.00	
L2410579-06 T	1	17	3.15052		3.00	
L2410579-07 T	1	18	0.35332		3.00	
L2410579-08 T	1	19	0.41007		3.00	
L2410579-09 T	1	20	3.22292		3.00	
CCV 0.4000	1	S6	0.39589			
	Known Conc:		100.00000			
CCV 4.0000	1	S3	3.99265			
	Known Conc:		100.00000			
CCB	1	S10	0.02431			
	Known Conc:		100.00000			

C

Author: A1WETCHEMINSTRUMENT

Date : 3/1/2024

Channel 2 (Ammonia High) - Current View

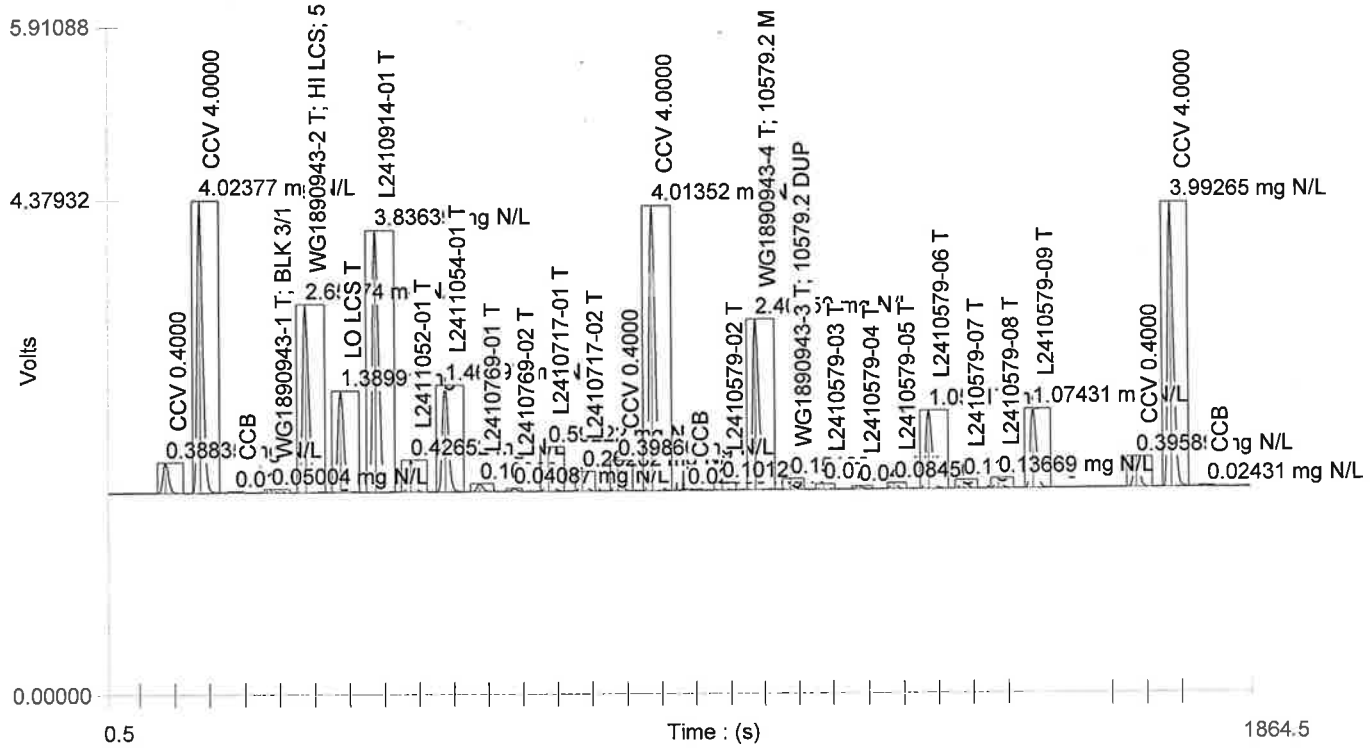
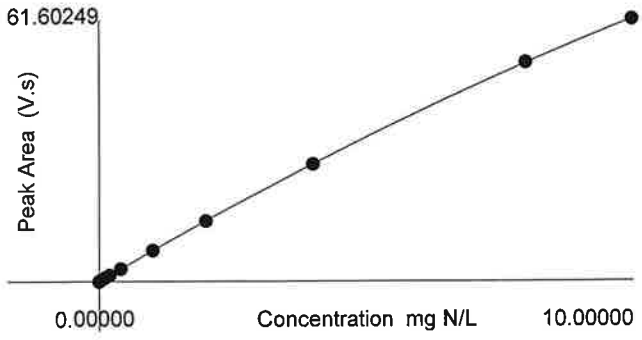


Table : 1 (Ammonia)

	Known Conc. (mg N/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg N/L)	Detection Date	Detection Time
1	10.00000	1	61.60249	5.48110	0.0	0.1	9.94197	3/1/2024	3:56:04 PM
2	8.00000	1	51.49138	4.80787	0.0	-0.3	8.06775	3/1/2024	3:57:00 PM
3	4.00000	1	27.56353	2.64580	0.0	0.2	4.01272	3/1/2024	3:57:58 PM
4	2.00000	1	14.17308	1.36006	0.0	0.8	1.97677	3/1/2024	3:58:55 PM
5	1.00000	1	7.25077	0.69033	0.0	0.1	0.98992	3/1/2024	3:59:53 PM
6	0.40000	1	2.95680	0.27827	0.0	-1.3	0.40025	3/1/2024	4:00:51 PM
7	0.20000	1	1.44765	0.13523	0.0	0.4	0.19710	3/1/2024	4:01:48 PM
8	0.10000	1	0.74642	0.07104	0.0	-4.1	0.10343	3/1/2024	4:02:47 PM
9	0.05000	1	0.39562	0.03662	0.0	-13.8	0.05674	3/1/2024	4:03:45 PM
10	0.00000	1	-0.08440	-0.00477			-0.00696	3/1/2024	4:04:41 PM

Figure : 1 (Ammonia)



Area = - 0.12334 * Conc^2 + 7.40477 * Conc - 0.02225
Conc = 0.00047 * Area^2 + 0.13256 * Area + 0.00422
Correlation Coefficient (r) = 1.00000

Weighting : 1/x

Author: A1WETCHEMINSTRUMENT

Date : 3/1/2024

Original Run Filename: OM_3-1-2024_06-09-18PM.OMN Created: 3/1/2024 6:09:18 PM
Original Run Author's Signature: [A1WETCHEMINSTRUMENT]
Current Run Filename: OM_3-1-2024_06-09-18PM.OMN Last Modified: 3/1/2024 6:37:46 PM
Current Run Author's Signature: [A1WETCHEMINSTRUMENT]
Description: Default New Run

Sample	Rep.	Cup No.	Channel 2 Ammonia (mg N/L)	ADF	MDF	Weight
CCV 0.4000	1	S6	0.39474			
	Known Conc:		100.00000			
CCV 4.0000	1	S3	4.02896			
	Known Conc:		100.00000			
	Calibration:		Table/Fig. : 1			
CCB	1	S10	0.02530			
	Known Conc:		100.00000			
WG1890775-1; BLK 2/29	1	1	0.01407		1.50	99%
WG1890775-2; HI LCS; 5X	1	2	19.77342		7.50	93%
LO LCS	1	3	1.84759		1.50	
L2410403-01	1	4	4.93478		1.50	90%
WG1890775-4; 10403.1 MS	1	5	8.54857		1.50	
WG1890775-3; 10403.1 DUP	1	6	5.09077		1.50	3%
L2410403-03	1	7	0.96012		1.50	
L2410403-05	1	8	0.04228		1.50	
L2410731-02	1	9	0.02144		1.50	
L2410731-03	1	10	0.34737		1.50	
CCV 0.4000	1	S6	0.38757			
	Known Conc:		100.00000			
CCV 4.0000	1	S3	4.00688			
	Known Conc:		100.00000			
CCB	1	S10	0.03023			
	Known Conc:		100.00000			
L2410731-04	1	11	0.59782		1.50	
L2410731-05	1	12	1.14022		1.50	
L2410731-06	1	13	0.69234		1.50	
L2410731-07	1	14	0.03741		1.50	
L2410731-08	1	15	0.13496		1.50	
L2410731-09	1	16	0.09589		1.50	
L2410731-10	1	17	0.93853		1.50	
CCV 0.4000	1	S6	0.39036			
	Known Conc:		100.00000			
CCV 4.0000	1	S3	3.99288			
	Known Conc:		100.00000			
CCB	1	S10	0.02698			
	Known Conc:		100.00000			

Author: A1WETCHEMINSTRUMENT

Date : 3/1/2024

Channel 2 (Ammonia High) - Current View

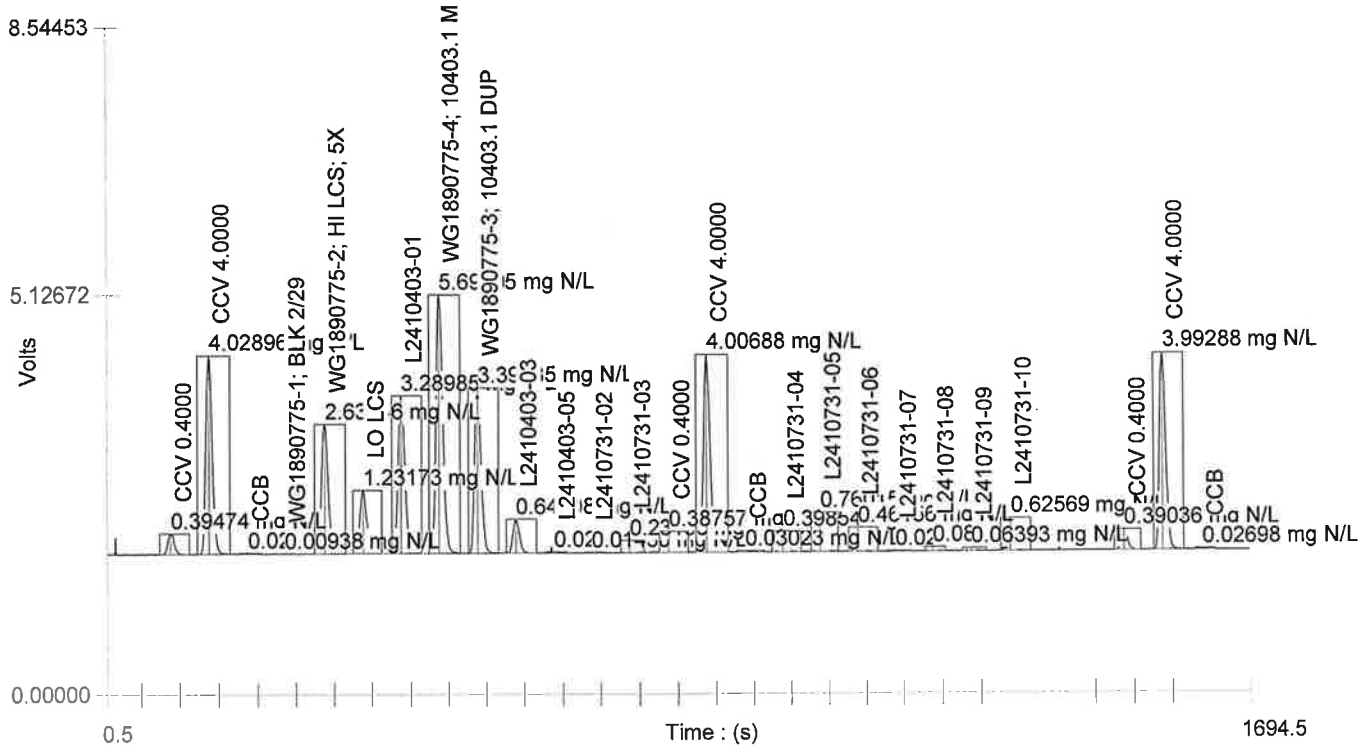
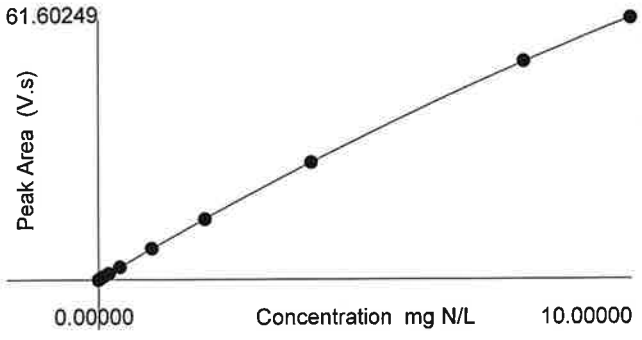


Table : 1 (Ammonia)

	Known Conc. (mg N/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg N/L)	Detection Date	Detection Time
1	10.00000	1	61.60249	5.48110	0.0	0.1	9.94197	3/1/2024	3:56:04 PM
2	8.00000	1	51.49138	4.80787	0.0	-0.3	8.06775	3/1/2024	3:57:00 PM
3	4.00000	1	27.56353	2.64580	0.0	0.2	4.01272	3/1/2024	3:57:58 PM
4	2.00000	1	14.17308	1.36006	0.0	0.8	1.97677	3/1/2024	3:58:55 PM
5	1.00000	1	7.25077	0.69033	0.0	0.1	0.98992	3/1/2024	3:59:53 PM
6	0.40000	1	2.95680	0.27827	0.0	-1.3	0.40025	3/1/2024	4:00:51 PM
7	0.20000	1	1.44765	0.13523	0.0	0.4	0.19710	3/1/2024	4:01:48 PM
8	0.10000	1	0.74642	0.07104	0.0	-4.1	0.10343	3/1/2024	4:02:47 PM
9	0.05000	1	0.39562	0.03662	0.0	-13.8	0.05674	3/1/2024	4:03:45 PM
10	0.00000	1	-0.08440	-0.00477			-0.00696	3/1/2024	4:04:41 PM

Figure : 1 (Ammonia)



Area = - 0.12334 * Conc^2 + 7.40477 * Conc - 0.02225
Conc = 0.00047 * Area^2 + 0.13256 * Area + 0.00422
Correlation Coefficient (r) = 1.00000

Weighting : 1/x

Author: A1WETCHEMINSTRUMENT

Date : 3/1/2024

Original Run Filename: OM_3-1-2024_07-26-01PM.OMN Created: 3/1/2024 7:26:01 PM
Original Run Author's Signature: [A1WETCHEMINSTRUMENT]
Current Run Filename: OM_3-1-2024_07-26-01PM.OMN Last Modified: 3/1/2024 7:41:37 PM
Current Run Author's Signature: [A1WETCHEMINSTRUMENT]
Description: Default New Run

Sample	Rep.	Cup No.	Channel 2 Ammonia (mg N/L)	ADF	MDF	Weight
CCV 0.4000	1	S6	0.38252			
	Known Conc:		100.00000			
CCV 4.0000	1	S3	3.99482			
	Known Conc:		100.00000			
	Calibration:		Table/Fig. : 1			
CCB	1	S10	0.02375			
	Known Conc:		100.00000			
WG1890776-1 T; BLK 2/29	1	1	0.01442			
WG1890776-2 T; HI LCS; 5X	1	2	38.44326		15.00	
LO LCS T	1	3	3.63862		3.00	
L2410644-01 T	1	4	0.14000		3.00	
L2410666-01 T	1	5	1.33066		3.00	
L2410791-01 T	1	6	4.12193		3.00	
L2410628-01 T	1	7	28.49822		3.00	
L2410628-02 T	1	8	1.05674		3.00	
L2410631-01 T	1	9	8.23850		3.00	
L2410631-02 T	1	10	7.42805		3.00	
CCV 0.4000	1	S6	0.45468			
	Known Conc:		100.00000			

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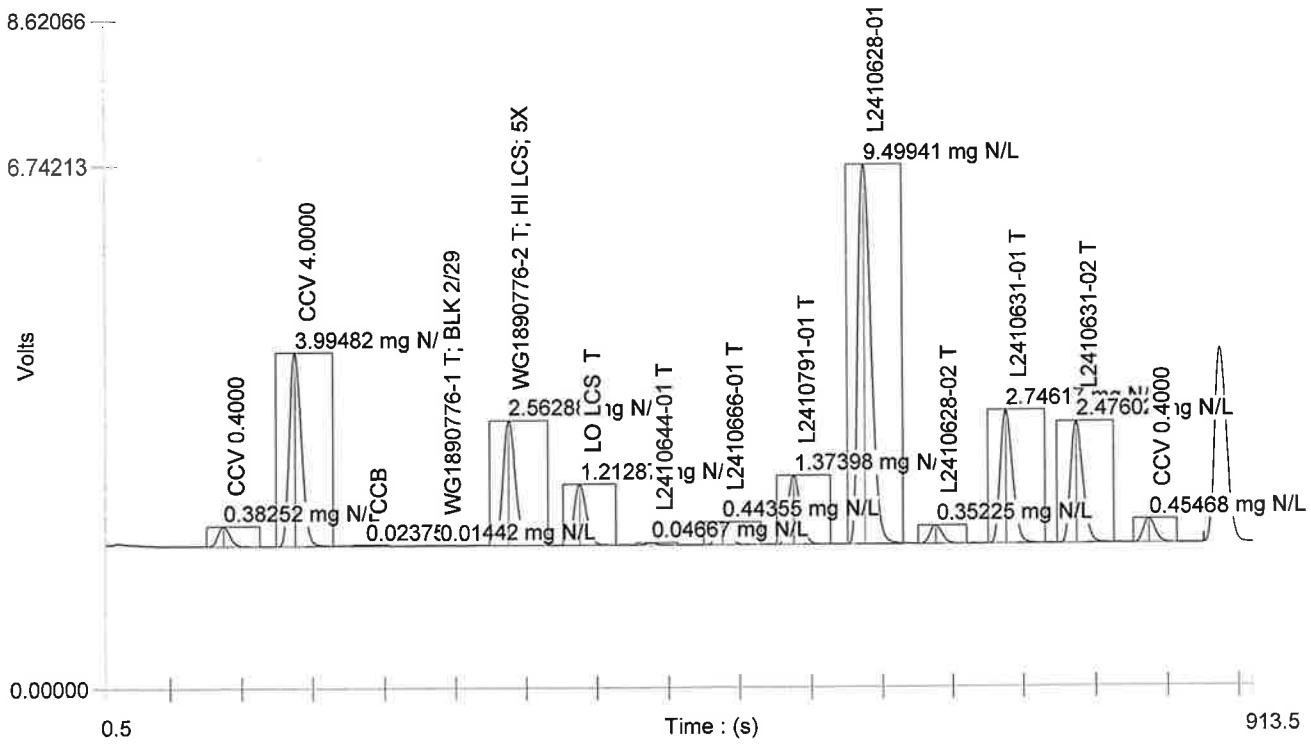
Channel 2 (Ammonia High) - Current View



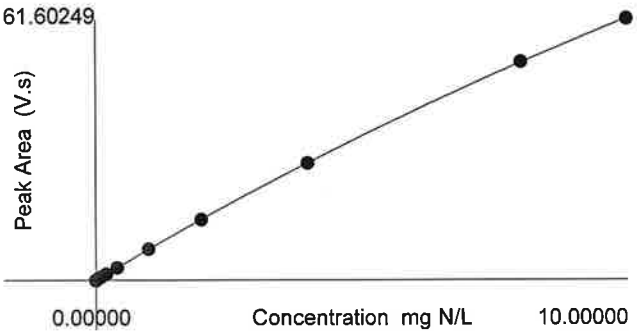
Author: A1WETCHEMINSTRUMENT

Date : 3/1/2024

Table : 1 (Ammonia)

	Known Conc. (mg N/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg N/L)	Detection Date	Detection Time
1	10.00000	1	61.60249	5.48110	0.0	0.1	9.94197	3/1/2024	3:56:04 PM
2	8.00000	1	51.49138	4.80787	0.0	-0.3	8.06775	3/1/2024	3:57:00 PM
3	4.00000	1	27.56353	2.64580	0.0	0.2	4.01272	3/1/2024	3:57:58 PM
4	2.00000	1	14.17308	1.36006	0.0	0.8	1.97677	3/1/2024	3:58:55 PM
5	1.00000	1	7.25077	0.69033	0.0	0.1	0.98992	3/1/2024	3:59:53 PM
6	0.40000	1	2.95680	0.27827	0.0	-1.3	0.40025	3/1/2024	4:00:51 PM
7	0.20000	1	1.44765	0.13523	0.0	0.4	0.19710	3/1/2024	4:01:48 PM
8	0.10000	1	0.74642	0.07104	0.0	-4.1	0.10343	3/1/2024	4:02:47 PM
9	0.05000	1	0.39562	0.03662	0.0	-13.8	0.05674	3/1/2024	4:03:45 PM
10	0.00000	1	-0.08440	-0.00477			-0.00696	3/1/2024	4:04:41 PM

Figure : 1 (Ammonia)



Area = - 0.12334 * Conc^2 + 7.40477 * Conc - 0.02225
Conc = 0.00047 * Area^2 + 0.13256 * Area + 0.00422
Correlation Coefficient (r) = 1.00000

Weighting : 1/x

Author: A1WETCHEMINSTRUMENT

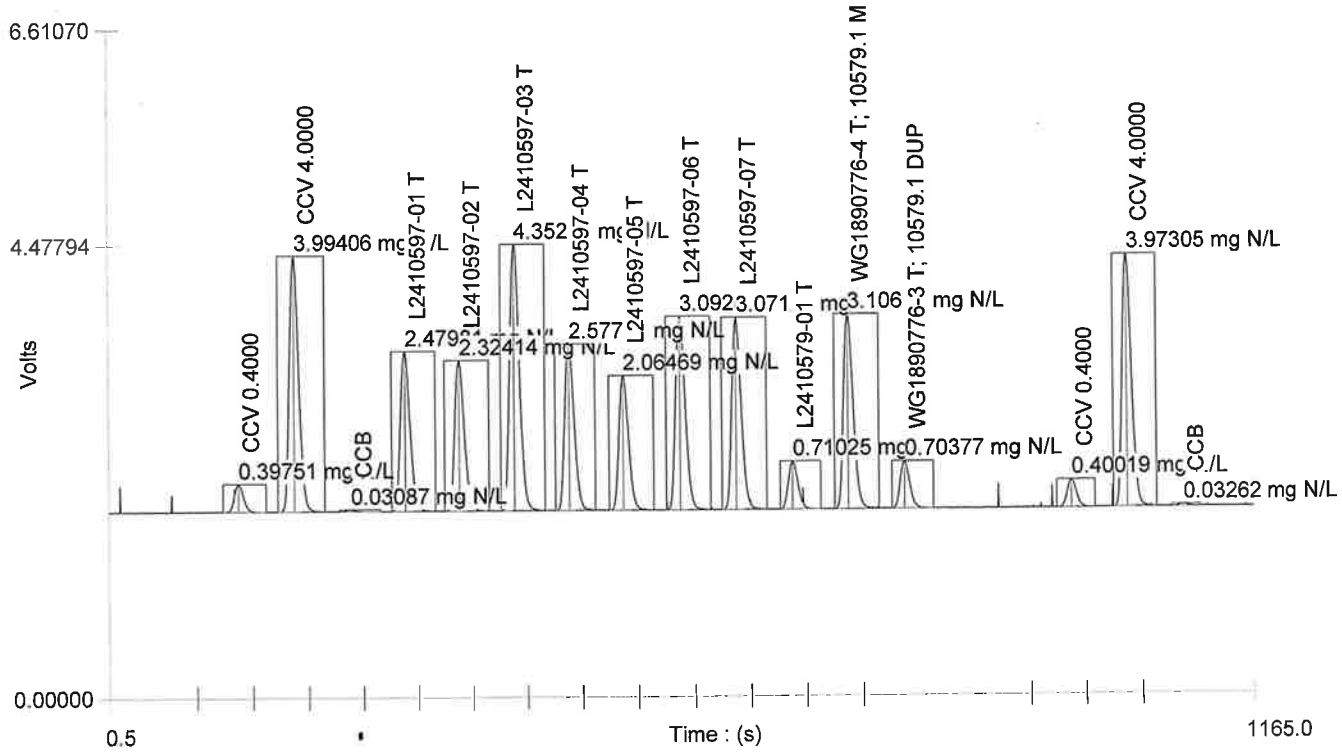
Date : 3/1/2024

Original Run Filename: OM_3-1-2024_07-43-08PM.OMN Created: 3/1/2024 7:43:08 PM
Original Run Author's Signature: [A1WETCHEMINSTRUMENT]
Current Run Filename: OM_3-1-2024_07-43-08PM.OMN Last Modified: 3/1/2024 8:02:46 PM
Current Run Author's Signature: [A1WETCHEMINSTRUMENT]
Description: Default New Run

Sample	Rep.	Cup No.	Channel 2 Ammonia (mg N/L)	ADF	MDF	Weight
CCV 0.4000	1	S6	0.39751			
	Known Conc:		100.00000			
CCV 4.0000	1	S3	3.99406			
	Known Conc:		100.00000			
	Calibration:		Table/Fig. : 1			
CCB	1	S10	0.03087			
	Known Conc:		100.00000			
L2410597-01 T	1	11	7.43943		3.00	
L2410597-02 T	1	12	6.97241		3.00	
L2410597-03 T	1	13	13.05823		3.00	
L2410597-04 T	1	14	7.73238		3.00	
L2410597-05 T	1	15	6.19406		3.00	
L2410597-06 T	1	16	9.27762		3.00	
L2410597-07 T	1	17	9.21361		3.00	
L2410579-01 T	1	18	2.13076		3.00	90%
WG1890776-4 T; 10579.1 MS	1	19	9.32058		3.00	
WG1890776-3 T; 10579.1 DUP	1	20	2.11130		3.00	1%
CCV 0.4000	1	S6	0.40019			
	Known Conc:		100.00000			
CCV 4.0000	1	S3	3.97305			
	Known Conc:		100.00000			
CCB	1	S10	0.03262			
	Known Conc:		100.00000			

E2

Channel 2 (Ammonia High) - Current View



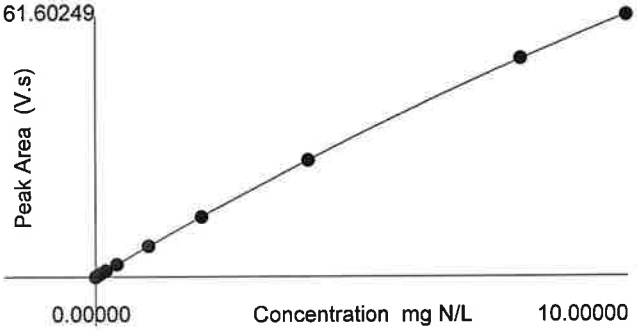
Author: A1WETCHEMINSTRUMENT

Date : 3/1/2024

Table : 1 (Ammonia)

	Known Conc. (mg N/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg N/L)	Detection Date	Detection Time
1	10.00000	1	61.60249	5.48110	0.0	0.1	9.94197	3/1/2024	3:56:04 PM
2	8.00000	1	51.49138	4.80787	0.0	-0.3	8.06775	3/1/2024	3:57:00 PM
3	4.00000	1	27.56353	2.64580	0.0	0.2	4.01272	3/1/2024	3:57:58 PM
4	2.00000	1	14.17308	1.36006	0.0	0.8	1.97677	3/1/2024	3:58:55 PM
5	1.00000	1	7.25077	0.69033	0.0	0.1	0.98992	3/1/2024	3:59:53 PM
6	0.40000	1	2.95680	0.27827	0.0	-1.3	0.40025	3/1/2024	4:00:51 PM
7	0.20000	1	1.44765	0.13523	0.0	0.4	0.19710	3/1/2024	4:01:48 PM
8	0.10000	1	0.74642	0.07104	0.0	-4.1	0.10343	3/1/2024	4:02:47 PM
9	0.05000	1	0.39562	0.03662	0.0	-13.8	0.05674	3/1/2024	4:03:45 PM
10	0.00000	1	-0.08440	-0.00477			-0.00696	3/1/2024	4:04:41 PM

Figure : 1 (Ammonia)



Area = - 0.12334 * Conc^2 + 7.40477 * Conc - 0.02225
Conc = 0.00047 * Area^2 + 0.13256 * Area + 0.00422
Correlation Coefficient (r) = 1.00000

Weighting : 1/x

Author: A1WETCHEMINSTRUMENT

Date : 3/1/2024

Original Run Filename: OM_3-1-2024_08-03-29PM.OMN Created: 3/1/2024 8:03:29 PM
Original Run Author's Signature: [A1WETCHEMINSTRUMENT]
Current Run Filename: OM_3-1-2024_08-03-29PM.OMN Last Modified: 3/1/2024 8:44:15 PM
Current Run Author's Signature: [A1WETCHEMINSTRUMENT]
Description: Default New Run

Sample	Rep.	Cup No.	Channel 2 Ammonia (mg N/L)	ADF	MDF	Weight
CCV 0.4000	1	S6	0.39478			
	Known Conc:		100.00000			
CCV 4.0000	1	S3	3.97105			
	Known Conc:		100.00000			
	Calibration:		Table/Fig. : 1			
CCB	1	S10	0.03463			
	Known Conc:		100.00000			
WG1890773-1; BLK 2/29	1	1	0.03457		1.50	
WG1890773-2; HI LCS; 5X	1	2	20.97366		7.50	
LO LCS	1	3	1.77676		1.50	
L2410048-01	1	4	2.12059		1.50	
WG1890773-4; 10048.1 MS	1	5	6.08025		1.50	
WG1890773-3; 10048.1 DUP	1	6	2.25509		1.50	
L2410654-01	1	7	0.28363		1.50	
L2410654-02	1	8	0.16841		1.50	
L2410654-03	1	9	0.14661		1.50	
L24010654-04	1	10	0.57018		7.50	
CCV 0.4000	1	S6	0.39660			
	Known Conc:		100.00000			
CCV 4.0000	1	S3	3.96774			
	Known Conc:		100.00000			
CCB	1	S10	0.03505			
	Known Conc:		100.00000			
L2410686-01	1	11	9.98203		7.50	
L2410686-02	1	12	1.17488		1.50	
L2410687-01	1	13	12.61607		1.50	
L2410687-02	1	14	4.47679		1.50	
L2410705-01	1	15	2.29898		15.00	
L2410705-02	1	16	2.55772		30.00	
~~L2410792-01~~	~~1~~	~~17~~	~~21.68081~~		~~1.50~~	
~~L2410856-01~~	~~1~~	~~18~~	~~9.29396~~		~~30.00~~	
L2410425-03; 25X	1	19	25.01658		37.50	
L2410425-02	1	20	0.88288		1.50	
CCV 0.4000	1	S6	0.40813			
	Known Conc:		100.00000			
CCV 4.0000	1	S3	3.96688			
	Known Conc:		100.00000			
CCB	1	S10	0.03633			
	Known Conc:		100.00000			
L2410635-01	1	21	0.02643		1.50	
L2410635-02	1	22	0.09662		1.50	
L2410636-01	1	23	0.54844		1.50	
L2410636-02	1	24	0.57304		1.50	
L2410636-03	1	25	0.08368		1.50	
L2410792-01; 10X	1	26	23.86285		15.00	
L2410856-01	1	27	2.57976		30.00	
CCV 0.4000	1	S6	0.39182			
	Known Conc:		100.00000			
CCV 4.0000	1	S3	3.95599			
	Known Conc:		100.00000			
CCB	1	S10	0.03628			
	Known Conc:		100.00000			

F

105%
89%
99%
6%

w/ dilution

Author: A1WETCHEMINSTRUMENT

Date : 3/1/2024

Channel 2 (Ammonia High) - Current View

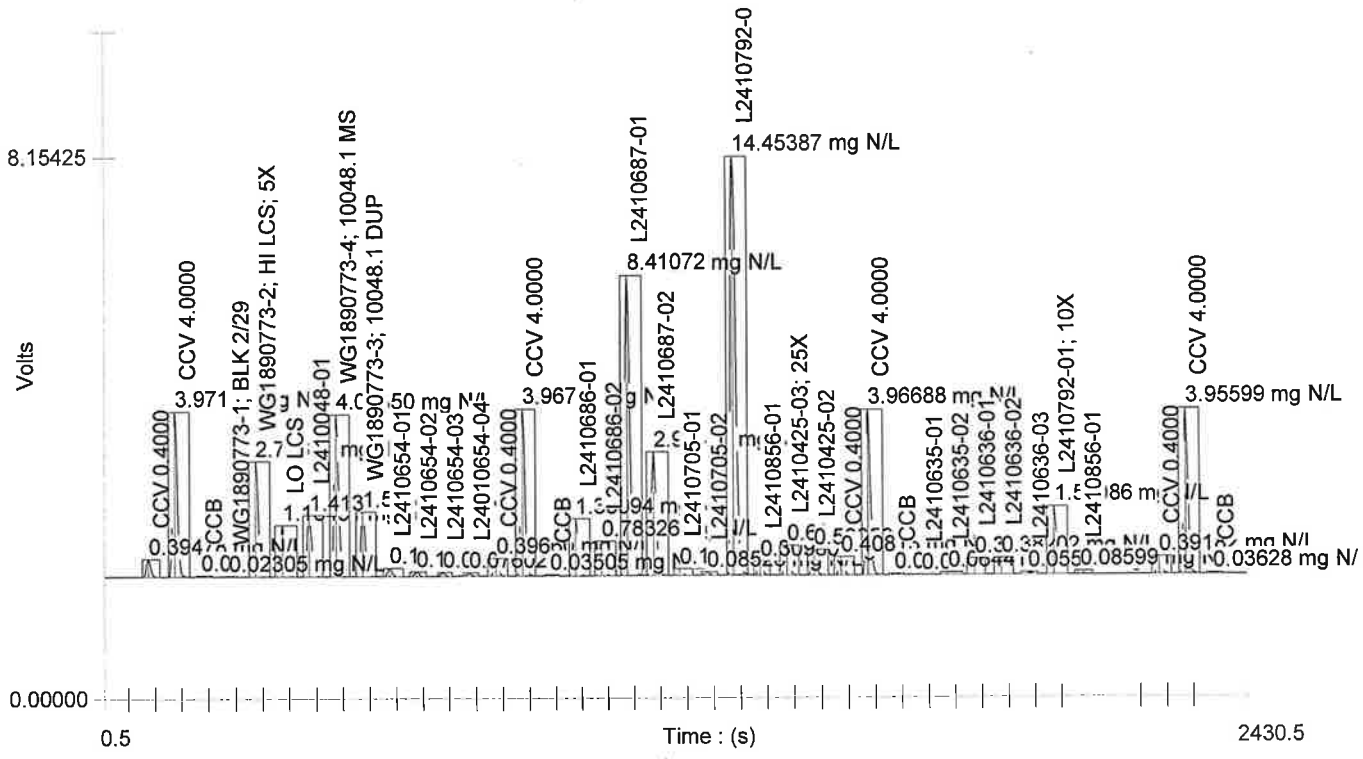
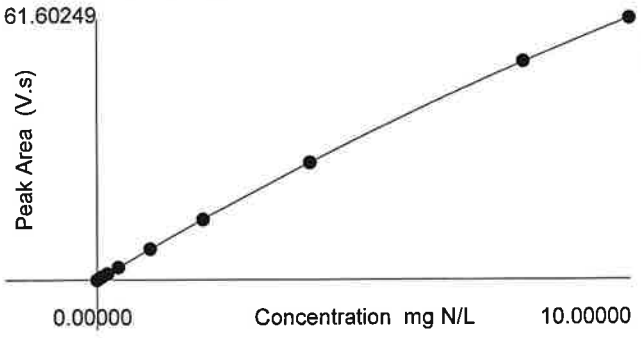


Table : 1 (Ammonia)

	Known Conc. (mg N/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg N/L)	Detection Date	Detection Time
1	10.00000	1	61.60249	5.48110	0.0	0.1	9.94197	3/1/2024	3:56:04 PM
2	8.00000	1	51.49138	4.80787	0.0	-0.3	8.06775	3/1/2024	3:57:00 PM
3	4.00000	1	27.56353	2.64580	0.0	0.2	4.01272	3/1/2024	3:57:58 PM
4	2.00000	1	14.17308	1.36006	0.0	0.8	1.97677	3/1/2024	3:58:55 PM
5	1.00000	1	7.25077	0.69033	0.0	0.1	0.98992	3/1/2024	3:59:53 PM
6	0.40000	1	2.95680	0.27827	0.0	-1.3	0.40025	3/1/2024	4:00:51 PM
7	0.20000	1	1.44765	0.13523	0.0	0.4	0.19710	3/1/2024	4:01:48 PM
8	0.10000	1	0.74642	0.07104	0.0	-4.1	0.10343	3/1/2024	4:02:47 PM
9	0.05000	1	0.39562	0.03662	0.0	-13.8	0.05674	3/1/2024	4:03:45 PM
10	0.00000	1	-0.08440	-0.00477			-0.00696	3/1/2024	4:04:41 PM

Figure : 1 (Ammonia)



Area = - 0.12334 * Conc^2 + 7.40477 * Conc - 0.02225
Conc = 0.00047 * Area^2 + 0.13256 * Area + 0.00422
Correlation Coefficient (r) = 1.00000

Weighting : 1/x

Quality Control

Form 5a
Matrix Spike

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Client Sample ID	: MW-1S	**Matrix**	: WATER
Lab Sample ID	: L2410579-01		
Matrix Spike	: WG1890776-4	**MS Analysis Date**	: 03/01/24 19:55
Matrix Spike Dup	:	**MSD Analysis Date**	:

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	Sample Conc. (mg/l)	Spike Added (mg/l)	Spike Conc. (mg/l)	%R	Spike Added (mg/l)	Spike Conc. (mg/l)	%R	RPD	Recovery Limits	RPD Limit
Nitrogen, Total Kjeldahl	2.13	8	9.32	90					77-111	24

Form 5a
Matrix Spike

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Client Sample ID	: MW-2S	**Matrix**	: WATER
Lab Sample ID	: L2410579-02		
Matrix Spike	: WG1890943-4	**MS Analysis Date**	: 03/01/24 17:54
Matrix Spike Dup	:	**MSD Analysis Date**	:

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	Sample Conc. (mg/l)	Spike Added (mg/l)	Spike Conc. (mg/l)	%R	Spike Added (mg/l)	Spike Conc. (mg/l)	%R	RPD	Recovery Limits	RPD Limit
Nitrogen, Total Kjeldahl	0.304	8	7.22	86					77-111	24

Form 6
Lab Duplicates

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Client Sample ID	: MW-1S	**Matrix**	: WATER
Lab Sample ID	: L2410579-01	**Analysis Date**	: 03/01/24 19:54
Dup Sample ID	: WG1890776-3	**DUP Analysis Date**	: 03/01/24 19:56

Parameter	Sample Concentration (mg/l)	Duplicate Concentration (mg/l)	RPD	RPD Limit
Nitrogen, Total Kjeldahl	2.13	2.11	1	24

Form 6
Lab Duplicates

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Client Sample ID	: MW-2S	**Matrix**	: WATER
Lab Sample ID	: L2410579-02	**Analysis Date**	: 03/01/24 17:53
Dup Sample ID	: WG1890943-3	**DUP Analysis Date**	: 03/01/24 17:55

Parameter	Sample Concentration (mg/l)	Duplicate Concentration (mg/l)	RPD	RPD Limit
Nitrogen, Total Kjeldahl	0.304	0.454	40 Q	24

Form 7
Laboratory Control Sample

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: WG1890776-2	**LCS Analysis Date**	: 03/01/24 19:30
Dup Sample ID	:	**LCSD Analysis Date**	:

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	**True (mg/l)**	**Found (mg/l)**	**%R**	**True (mg/l)**	**Found (mg/l)**	**%R**	**RPD**	**Recovery Limits**	**RPD Limit**
Nitrogen, Total Kjeldahl	**40.0**	**38.4**	**96.**					**78-122**	**24**

Form 7
Laboratory Control Sample

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: WG1890943-2	**LCS Analysis Date**	: 03/01/24 17:42
Dup Sample ID	:	**LCSD Analysis Date**	:

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	**True (mg/l)**	**Found (mg/l)**	**%R**	**True (mg/l)**	**Found (mg/l)**	**%R**	**RPD**	**Recovery Limits**	**RPD Limit**
Nitrogen, Total Kjeldahl	**40.0**	**39.8**	**100.**					**78-122**	**24**

Date Created: 11/11/21
Created By: Jason Hebert
File: PM11467-1
Page: 1

WETCHEM (WATER)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Method	Holding Time	Container/Sample Preservation
Nitrogen, Total Kjeldahl	NONE	0.3	0.066	mg/l	78-122		77-111	24	24	4500NH3-H	28 days	1 - Plastic 500ml H2SO4 preserved
Nitrogen, Total Kjeldahl	NONE	0.3	0.066	mg/l	78-122		77-111	24	24	351.1	28 days	1 - Plastic 500ml H2SO4 preserved

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

Date Created: 11/11/21
Created By: Jason Hebert
File: PM11468-1
Page: 1

WETCHEM (SOIL)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Method	Holding Time	Container/Sample Preservation
Nitrogen, Total Kjeldahl	NONE	150	31.5	mg/kg	81-115	26	43-160	26	26	4500NH3-H	28 days	1 - Glass 250ml/8oz unpreserved

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

Calculations of Nitrogen in TKN

Aqueous samples:

Compute sample TKN –N concentration by comparing sample peak areas with standard curve, as determined by the Lachat instrument software.

If the sample has a concentration of less than 2ppm, calculate results by using the low curve generated on Channel 1.

If the sample concentration is greater than 2ppm, calculate the results by using the high curve generated on Channel 2.

To Compute the final results for aqueous samples, multiply the direct reading by the dilution factor based on the initial preparation volume. (also done using software)

TKN-N mg/L = mg/L direct reading x dilution factor

Sequence Logs

Project No. _____ MHS 3/1/24 (AO)

idential Book No. _____ TITLE _____

Page No. ____

tf: A (03:55:02pm)
Rup 2/29/24 @1743

1 Hi IW 8.0
2 Lo IW 1.0
3 Inv
4 Wk-1890718-1 T; Blk 2/29
5 Wk-1890718-2 T; Hi ms T
6 Lo ms T
7 10108.1 T
8 .2 T
9 10318.1 T
10 10446.4 T
11 .5 T
12 10106.1 T
13 .2 T
14 .3 T
15 10107.1 T
16 .2 T
17 10487.1 T
18 10530.1 T
19 Wk-1890718-4 T; 10530.1 ms
20 Wk-1890718-3 T; 10530.1 Dp
21 10109.1 T
22 10507.1 T
23 .3 T

tf: B (04:59:39pm)
Rup 3/1/24 @1025

1 Wk-1890944-1; Blk 3/1 (1890945)
2 Wk-1890944-2; Hi ms T
3 Lo ms
4 10653.1
5 .2
6 .3
7 Wk-1890945-4; 10653.3 ms
8 Wk-1890945-3; 10653.3 Dp
9 10717.1
10 .2
11 11124.1
12 10579.1
13 Wk-1890944-4; 10579.1 ms
14 Wk-1890944-3; 10579.1 Dp
15 10579.2
16 .3
17 .4
18 .5
19 .6
20 .7
21 .8
22 .9
23 10892.1

Date: 3/1/24
Sodium Phenolate: 2/20/24 R-4065
Sodium Hypochlorate: 3/1/24 drop ship
Sodium Nitropruisside: 2/20/24 R-5967
Borric Acid Soln.: 3/1/24 R-4019
ICV 1.0: 2/24/24 WC-5402
ICV 8.0:
Cal. Std: 2/28/24 WC-3294

To Page No. ____

essed & See Front Page for Instructions: Date | Invented by: | Date

Recorded by:

tg: C (05-37-18pm)
Rep 3/1/24 @1031

1 wh 890943-1 T. Blu 3/1
2 wh 890943-2 T; Hi wgt +
3 6 ws T
4 10914.1 T
5 11052.1 T (5+)
6 11054.1 T
7 10769.1 T
8 .2 T
9 10717.1 T (5+)
10 .2 T
11 10579.2 T
12 wh 890943-4 T; 10579.2 ws
13 wh 890943-3 T. 10579.2 hp
14 10579.3 T
15 .4 T
16 .5 T
17 .6 T
18 .7 T
19 .8 T
20 .9 T

tg: D (06-09-18pm)
Rep 2/29/24 @2216

1 wh 890775-1. Blu 2/29
2 wh 890775-2; Hi wgt +
3 6 ws
4 10403.1
5 wh 890775-4. 10403.1 ws
6 wh 890775-3; 10403.1 hp
7 10403.3
8 .5 —
9 10731.2 —
10 .3
11 .4 —
12 .5
13 .6
14 .7
15 .8
16 .9
17 .10

To Page No.

Witnessed & Understood by me,	Date	Invented by:	Date
		Recorded by:	

tj-E (07-26-01pm)
Rp 2/29/24 @2222

1 Wu 890776.1 T; Blu 2/29
2 Wu 890776.2 T; Hi wg 5+
3 Low T
4 10644.1 T
5 10666.1 T
6 10791.1 T
7 10628.1 T
8 .2 T
9 10631.1 T
10 .2 T
11 10577.1 T
12 .2 T
13 .3 T
14 .4 T
15 .5 T
16 .6 T
17 .7 T
18 10579.1 T
19 Wu 890776.4 T; 10577.1 wg
20 Wu 890776.3 T; 10579.1 Rp

0743-08pm

tj-F (08-03-29pm)
Rp 2/29/24 @1908

1 Wu 890773-1; Blu 2/29
2 Wu 890773-2; Hi wg 5+
3 Low wg
4 10048.1
5 Wu 890773-4; 10048.1 wg
6 Wu 890773-3; 10048.1 Rp
7 10654.1
8 .2
9 .3
10 .4 (5+)
11 10686.1 (5+)
12 .2
13 10687.1
14 .2
15 10705.1 (10+)
16 .2 (20+)
17 10792.1 -10+
18 10856.1 (20+)
19 10425.3 -25+
20 .2
21 10635.1
22 .2
23 10636.1
24 .2
25 .3

itnessed & Understood by me, | Date | Invented by: | Date
Recorded by:

Sample Preparation

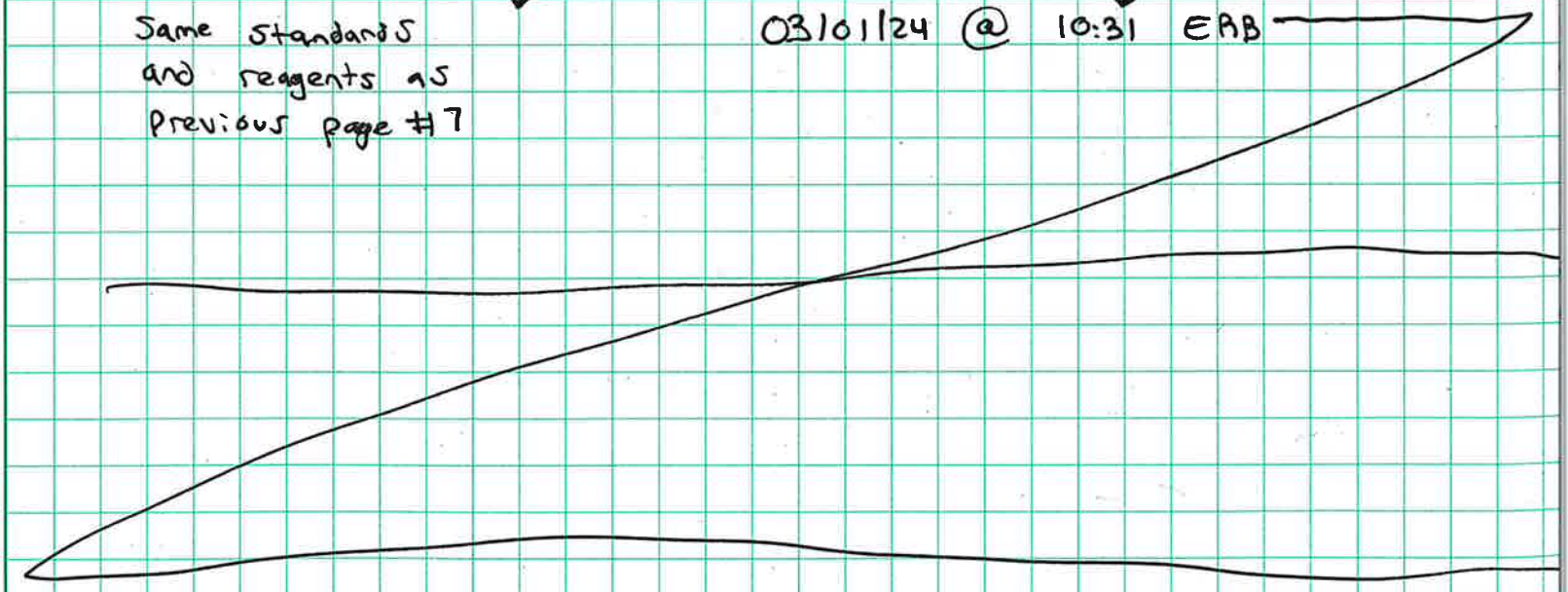
From Page No. ____

WG1890943

Sample	vol. 50mL	Dil. 1x	Final vol 150 mL
Blank			
Low			
High			
L2410579-02 PA			
-02 Dup			
-02 MS			
-03			
-04			
-05			
-06			
-07			
-08			
-09			
0717-01		5X (10/50)	
-02		1X	
0769-01			
-02			
0914-01			
1052-01		5X (10/50)	
1054-01		1X	

Same standards and reagents as Previous page #7

03/01/24 @ 10:31 EAB



To Page No. ____

Sample	Volume	Dilution	final vol
	50ml	1X	150ml
Blank			
Low			
High			
L2410579 - 01 PA			
- 01 DUP			
- 01 MS			
0597 - 01			
- 02			
- 03			
- 04			
- 05			
- 06			
- 07			
0628 - 01			
- 02			
0631 - 01			
- 02			
0644 - 01			
0666 - 01			
0791 - 01			

Same standards as reagents as previous page # 06

02/29/24 @ 22:22 eff

To Page No. ____

Witnessed & Understood by me, | Date | Invented by: | Date | Recorded by:

Ammonia Analysis

Results

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2410579-01	**Date Collected**	: 02/26/24 14:10
Client ID	: MW-1S	**Date Received**	: 02/27/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 03/01/24 17:16
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 44,350.1	**Analyst**	: AT
Lab File ID	: NH320240301-B	**Instrument ID**	: LATCHAT5
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 03/01/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7664-41-7	Nitrogen, Ammonia	1.37	0.075	0.024	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2410579-02	**Date Collected**	: 02/26/24 15:25
Client ID	: MW-2S	**Date Received**	: 02/27/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 03/01/24 17:19
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 44,350.1	**Analyst**	: AT
Lab File ID	: NH320240301-B	**Instrument ID**	: LATCHAT5
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 03/01/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7664-41-7	Nitrogen, Ammonia	0.052	0.075	0.024	J

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2410579-03	**Date Collected**	: 02/26/24 16:30
Client ID	: MW-3S	**Date Received**	: 02/27/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 03/01/24 17:20
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 44,350.1	**Analyst**	: AT
Lab File ID	: NH320240301-B	**Instrument ID**	: LATCHAT5
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 03/01/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7664-41-7	Nitrogen, Ammonia	0.099	0.075	0.024	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2410579-04	**Date Collected**	: 02/27/24 09:05
Client ID	: MW-4D	**Date Received**	: 02/27/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 03/01/24 17:21
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 44,350.1	**Analyst**	: AT
Lab File ID	: NH320240301-B	**Instrument ID**	: LATCHAT5
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 03/01/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7664-41-7	Nitrogen, Ammonia	0.030	0.075	0.024	J

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2410579-05	**Date Collected**	: 02/27/24 08:40
Client ID	: MW-5S	**Date Received**	: 02/27/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 03/01/24 17:22
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 44,350.1	**Analyst**	: AT
Lab File ID	: NH320240301-B	**Instrument ID**	: LATCHAT5
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 03/01/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7664-41-7	Nitrogen, Ammonia	ND	0.075	0.024	U

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2410579-06	**Date Collected**	: 02/26/24 16:35
Client ID	: MW-6D	**Date Received**	: 02/27/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 03/01/24 17:23
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 44,350.1	**Analyst**	: AT
Lab File ID	: NH320240301-B	**Instrument ID**	: LATCHAT5
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 03/01/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7664-41-7	Nitrogen, Ammonia	2.90	0.075	0.024	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2410579-07	**Date Collected**	: 02/26/24 14:45
Client ID	: MW-7S	**Date Received**	: 02/27/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 03/01/24 17:24
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 44,350.1	**Analyst**	: AT
Lab File ID	: NH320240301-B	**Instrument ID**	: LATCHAT5
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 03/01/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7664-41-7	Nitrogen, Ammonia	0.045	0.075	0.024	J

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2410579-08	**Date Collected**	: 02/27/24 10:25
Client ID	: MW-8S	**Date Received**	: 02/27/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 03/01/24 17:28
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 44,350.1	**Analyst**	: AT
Lab File ID	: NH320240301-B	**Instrument ID**	: LATCHAT5
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 03/01/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7664-41-7	Nitrogen, Ammonia	ND	0.075	0.024	U

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2410579-09	**Date Collected**	: 02/26/24 00:00
Client ID	: DUP	**Date Received**	: 02/27/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 03/01/24 17:29
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 44,350.1	**Analyst**	: AT
Lab File ID	: NH320240301-B	**Instrument ID**	: LATCHAT5
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 03/01/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7664-41-7	Nitrogen, Ammonia	3.09	0.075	0.024	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: WG1890944-1	**Date Collected**	: NA
Client ID	: WG1890944-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 03/01/24 17:03
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 44,350.1	**Analyst**	: AT
Lab File ID	: NH320240301-B	**Instrument ID**	: LATCHAT5
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 03/01/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7664-41-7	Nitrogen, Ammonia	ND	0.075	0.024	U

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: WG1890944-3	**Date Collected**	: 02/26/24 14:10
Client ID	: MW-1SDUP	**Date Received**	: 02/27/24
Sample Location	:	**Date Analyzed**	: 03/01/24 17:18
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 44,350.1	**Analyst**	: AT
Lab File ID	: NH320240301-B	**Instrument ID**	: LATCHAT5
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 03/01/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7664-41-7	Nitrogen, Ammonia	1.49	0.075	0.024	

Sample Raw Data

Author: A1WETCHEMINSTRUMENT

Date : 3/1/2024

Original Run Filename: OM_3-1-2024_03-55-02PM.OMN Created: 3/1/2024 3:55:02 PM
Original Run Author's Signature: [A1WETCHEMINSTRUMENT]
Current Run Filename: OM_3-1-2024_03-55-02PM.OMN Last Modified: 3/1/2024 4:41:40 PM
Current Run Author's Signature: [A1WETCHEMINSTRUMENT]
Description: Default New Run

A

Sample	Rep.	Cup No.	Channel 2 Ammonia (mg N/L)	ADF	MDF	Weight	
STD 1	1	S1	10.00000				
STD 2	1	S2	8.00000				
STD 3	1	S3	4.00000				
STD 4	1	S4	2.00000				
STD 5	1	S5	1.00000				
STD 6	1	S6	0.40000				
STD 7	1	S7	0.20000				
STD 8	1	S8	0.10000				
STD 9	1	S9	0.05000				
STD 10	1	S10	0.00000				
CCV 0.4000	1	S6	0.38843				
	Known Conc:		100.00000				
	Calibration:		Table/Fig. : 1				
CCV 4.0000	1	S3	4.00081				
	Known Conc:		100.00000				
CCB	1	S10	0.03393				
	Known Conc:		100.00000				
HI ICV 8.0	1	1	8.05899				101%
LO ICV 1.0	1	2	0.97928				98%
ICB	1	3	0.01272				
WG1890718-1 T; BLK 2/29	1	4	0.02244				
WG1890718-2 T; HI LCS; 5X	1	5	40.84455		15.00		102%
LO LCS T	1	6	3.98829		3.00		100%
L2410108-01 T	1	7	11.93651		3.00		
L2410108-02 T	1	8	5.10737		3.00		
L2410318-01 T	1	9	10.55241		3.00		
L2410446-04 T	1	10	0.37169		3.00		
CCV 0.4000	1	S6	0.40758				
	Known Conc:		100.00000				
CCV 4.0000	1	S3	4.07455				
	Known Conc:		100.00000				
CCB	1	S10	0.02069				
	Known Conc:		100.00000				
L2410446-05 T	1	11	0.47056		3.00		
L2410106-01 T	1	12	1.22342		3.00		
L2410106-02 T	1	13	8.93569		3.00		
L2410106-03 T	1	14	0.64181		3.00		
L2410107-01 T	1	15	1.22829		3.00		
L2410107-02 T	1	16	0.83186		3.00		
L2410487-01 T	1	17	0.25083		3.00		
L2410530-01 T	1	18	0.71724		3.00		99%
WG1890718-4 T; 10530.1 MS	1	19	8.60356		3.00		96% (LC+HL)
WG1890718-3 T; 10530.1 DUP	1	20	0.93466		3.00		
CCV 0.4000	1	S6	0.40527				
	Known Conc:		100.00000				
CCV 4.0000	1	S3	4.06869				
	Known Conc:		100.00000				
CCB	1	S10	0.02251				
	Known Conc:		100.00000				
L2410109-01 T	1	21	1.37778		3.00		
L2410507-01 T	1	22	0.05388		3.00		
L2410507-03 T	1	23	0.14349		3.00		
CCV 0.4000	1	S6	0.39442				
	Known Conc:		100.00000				
CCV 4.0000	1	S3	4.06512				
	Known Conc:		100.00000				
CCB	1	S10	0.01680				
	Known Conc:		100.00000				

Author: A1WETCHEMINSTRUMENT

Date : 3/1/2024

Channel 2 (Ammonia High) - Current View

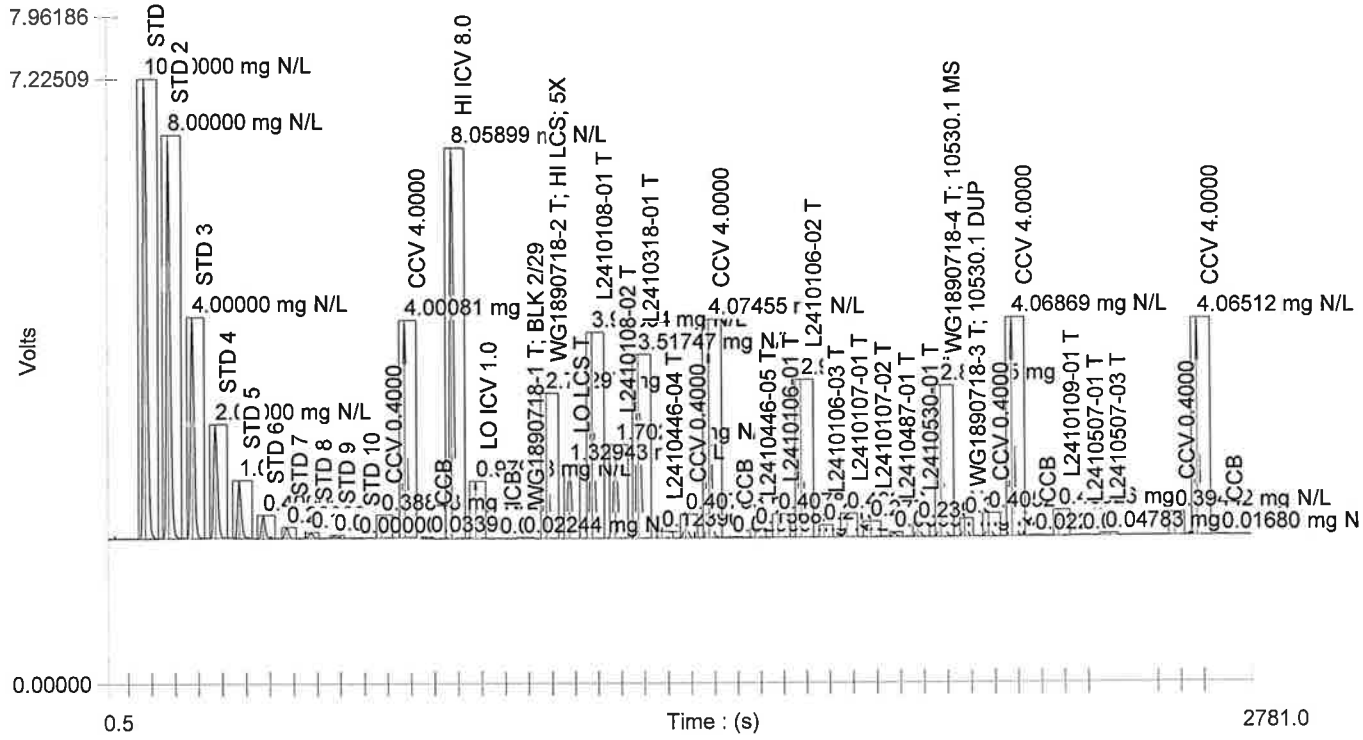


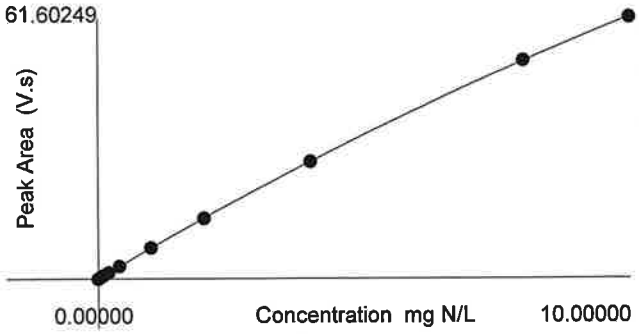
Table : 1 (Ammonia)

	Known Conc. (mg N/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg N/L)	Detection Date	Detection Time
1	10.00000	1	61.60249	5.48110	0.0	0.1	9.94197	3/1/2024	3:56:04 PM
2	8.00000	1	51.49138	4.80787	0.0	-0.3	8.06775	3/1/2024	3:57:00 PM
3	4.00000	1	27.56353	2.64580	0.0	0.2	4.01272	3/1/2024	3:57:58 PM
4	2.00000	1	14.17308	1.36006	0.0	0.8	1.97677	3/1/2024	3:58:55 PM
5	1.00000	1	7.25077	0.69033	0.0	0.1	0.98992	3/1/2024	3:59:53 PM
6	0.40000	1	2.95680	0.27827	0.0	-1.3	0.40025	3/1/2024	4:00:51 PM
7	0.20000	1	1.44765	0.13523	0.0	0.4	0.19710	3/1/2024	4:01:48 PM
8	0.10000	1	0.74642	0.07104	0.0	-4.1	0.10343	3/1/2024	4:02:47 PM
9	0.05000	1	0.39562	0.03662	0.0	-13.8	0.05674	3/1/2024	4:03:45 PM
10	0.00000	1	-0.08440	-0.00477			-0.00696	3/1/2024	4:04:41 PM

Author: A1WETCHEMINSTRUMENT

Date : 3/1/2024

Figure : 1 (Ammonia)



Area = - 0.12334 * Conc^2 + 7.40477 * Conc - 0.02225
Conc = 0.00047 * Area^2 + 0.13256 * Area + 0.00422
Correlation Coefficient (r) = 1.00000

Weighting : 1/x

Author: A1WETCHEMINSTRUMENT

Date : 3/1/2024

Original Run Filename: OM_3-1-2024_04-59-39PM.OMN Created: 3/1/2024 4:59:39 PM
Original Run Author's Signature: [A1WETCHEMINSTRUMENT]
Current Run Filename: OM_3-1-2024_04-59-39PM.OMN Last Modified: 3/1/2024 5:36:41 PM
Current Run Author's Signature: [A1WETCHEMINSTRUMENT]
Description: Default New Run

B

Sample	Rep.	Cup No.	Channel 2 Ammonia (mg N/L)	ADF	MDF	Weight
CCV 0.4000	1	S6	0.37847			
	Known Conc:		100.00000			
	Calibration:		Table/Fig. : 1			
CCV 4.0000	1	S3	4.02346			
	Known Conc:		100.00000			
CCB	1	S10	0.01743			
	Known Conc:		100.00000			
WG1890944-1; BLK 3/1	1	1	0.00819		1.50	
WG1890944-2; HI LCS; 5X	1	2	19.45352		7.50	97%
LO LCS	1	3	1.70327		1.50	85%
L2410653-01	1	4	0.35944		1.50	
L2410653-02	1	5	0.88816		1.50	
L2410653-03	1	6	0.22804		1.50	85%
WG1890945-4; 10653.3 MS	1	7	3.62792		1.50	
WG1890945-3; 10653.3 DUP	1	8	0.27281		1.50	15% (RPD)
L2410717-01	1	9	4.22555		1.50	
L2410717-02	1	10	0.10308		1.50	
CCV 0.4000	1	S6	0.39528			
	Known Conc:		100.00000			
CCV 4.0000	1	S3	4.02736			
	Known Conc:		100.00000			
CCB	1	S10	0.02274			
	Known Conc:		100.00000			
L2411124-01	1	11	0.34706		1.50	
L2410579-01	1	12	1.36709		1.50	
WG1890944-4; 10579.1 MS	1	13	5.18015		1.50	95%
WG1890944-3; 10579.1 DUP	1	14	1.48809		1.50	9%
L2410579-02	1	15	0.05251		1.50	
L2410579-03	1	16	0.09946		1.50	
L2410579-04	1	17	0.03041		1.50	
L2410579-05	1	18	0.01484		1.50	
L2410579-06	1	19	2.89957		1.50	
L2410579-07	1	20	0.04519		1.50	
CCV 0.4000	1	S6	0.39132			
	Known Conc:		100.00000			
CCV 4.0000	1	S3	4.02008			
	Known Conc:		100.00000			
CCB	1	S10	0.02313			
	Known Conc:		100.00000			
L2410579-08	1	21	0.01534		1.50	
L2410579-09	1	22	3.09299		1.50	
L2410892-01	1	23	0.10116		1.50	
CCV 0.4000	1	S6	0.38960			
	Known Conc:		100.00000			
CCV 4.0000	1	S3	4.03350			
	Known Conc:		100.00000			
CCB	1	S10	0.02134			
	Known Conc:		100.00000			

Author: A1WETCHEMINSTRUMENT

Date : 3/1/2024

Channel 2 (Ammonia High) - Current View

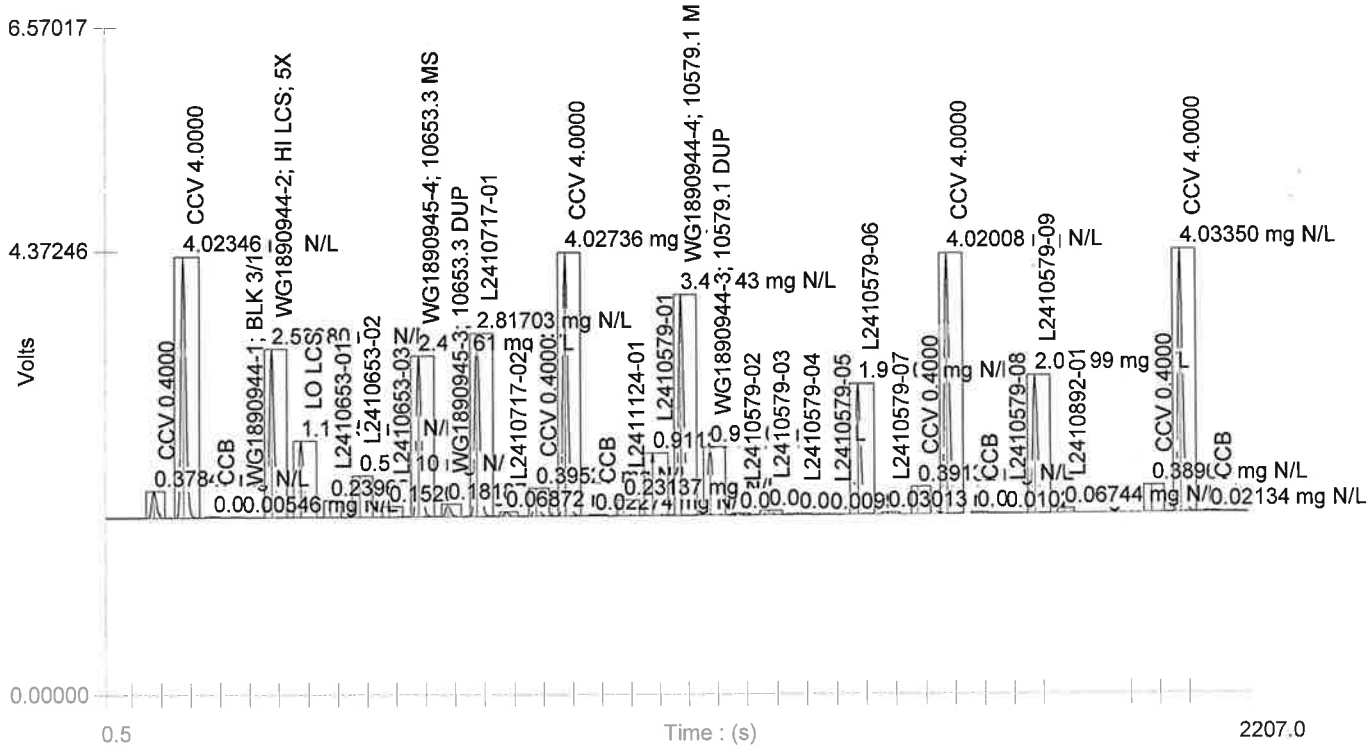
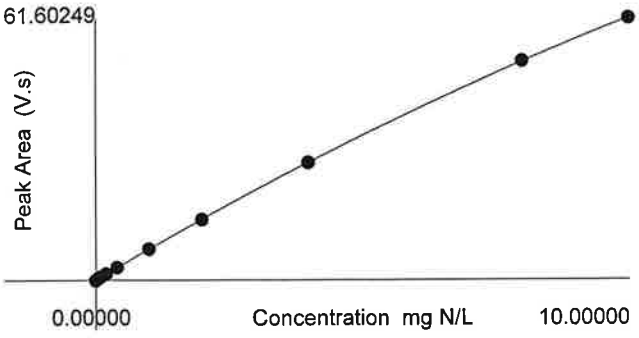


Table : 1 (Ammonia)

	Known Conc. (mg N/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg N/L)	Detection Date	Detection Time
1	10.00000	1	61.60249	5.48110	0.0	0.1	9.94197	3/1/2024	3:56:04 PM
2	8.00000	1	51.49138	4.80787	0.0	-0.3	8.06775	3/1/2024	3:57:00 PM
3	4.00000	1	27.56353	2.64580	0.0	0.2	4.01272	3/1/2024	3:57:58 PM
4	2.00000	1	14.17308	1.36006	0.0	0.8	1.97677	3/1/2024	3:58:55 PM
5	1.00000	1	7.25077	0.69033	0.0	0.1	0.98992	3/1/2024	3:59:53 PM
6	0.40000	1	2.95680	0.27827	0.0	-1.3	0.40025	3/1/2024	4:00:51 PM
7	0.20000	1	1.44765	0.13523	0.0	0.4	0.19710	3/1/2024	4:01:48 PM
8	0.10000	1	0.74642	0.07104	0.0	-4.1	0.10343	3/1/2024	4:02:47 PM
9	0.05000	1	0.39562	0.03662	0.0	-13.8	0.05674	3/1/2024	4:03:45 PM
10	0.00000	1	-0.08440	-0.00477			-0.00696	3/1/2024	4:04:41 PM

Figure : 1 (Ammonia)



Area = - 0.12334 * Conc^2 + 7.40477 * Conc - 0.02225
Conc = 0.00047 * Area^2 + 0.13256 * Area + 0.00422
Correlation Coefficient (r) = 1.00000

Weighting : 1/x

Author: A1WETCHEMINSTRUMENT

Date : 3/1/2024

Original Run Filename: OM_3-1-2024_05-37-18PM.OMN Created: 3/1/2024 5:37:18 PM
Original Run Author's Signature: [A1WETCHEMINSTRUMENT]
Current Run Filename: OM_3-1-2024_05-37-18PM.OMN Last Modified: 3/1/2024 6:08:36 PM
Current Run Author's Signature: [A1WETCHEMINSTRUMENT]
Description: Default New Run

Sample	Rep.	Cup No.	Channel 2 Ammonia (mg N/L)	ADF	MDF	Weight
CCV 0.4000	1	S6	0.38835			
	Known Conc:		100.00000			
CCV 4.0000	1	S3	4.02377			
	Known Conc:		100.00000			
	Calibration:		Table/Fig. : 1			
CCB	1	S10	0.01895			
	Known Conc:		100.00000			
WG1890943-1 T; BLK 3/1	1	1	0.05004			99%
WG1890943-2 T; HI LCS; 5X	1	2	39.77605		15.00	
LO LCS T	1	3	4.16972		3.00	104%
L2410914-01 T	1	4	11.50916		3.00	
L2411052-01 T	1	5	6.39773		15.00	
L2411054-01 T	1	6	4.40090		3.00	
L2410769-01 T	1	7	0.32647		3.00	
L2410769-02 T	1	8	0.12261		3.00	
L2410717-01 T	1	9	8.88326		15.00	
L2410717-02 T	1	10	0.78847		3.00	
CCV 0.4000	1	S6	0.39860			
	Known Conc:		100.00000			
CCV 4.0000	1	S3	4.01352			
	Known Conc:		100.00000			
CCB	1	S10	0.02603			
	Known Conc:		100.00000			
L2410579-02 T	1	11	0.30388		3.00	87%
WG1890943-4 T; 10579.2 MS	1	12	7.21951		3.00	
WG1890943-3 T; 10579.2 DUP	1	13	0.45415		3.00	90% (LCS+MS)
L2410579-03 T	1	14	0.23004		3.00	
L2410579-04 T	1	15	0.14316		3.00	
L2410579-05 T	1	16	0.25369		3.00	
L2410579-06 T	1	17	3.15052		3.00	
L2410579-07 T	1	18	0.35332		3.00	
L2410579-08 T	1	19	0.41007		3.00	
L2410579-09 T	1	20	3.22292		3.00	
CCV 0.4000	1	S6	0.39589			
	Known Conc:		100.00000			
CCV 4.0000	1	S3	3.99265			
	Known Conc:		100.00000			
CCB	1	S10	0.02431			
	Known Conc:		100.00000			

C

Author: A1WETCHEMINSTRUMENT

Date : 3/1/2024

Channel 2 (Ammonia High) - Current View

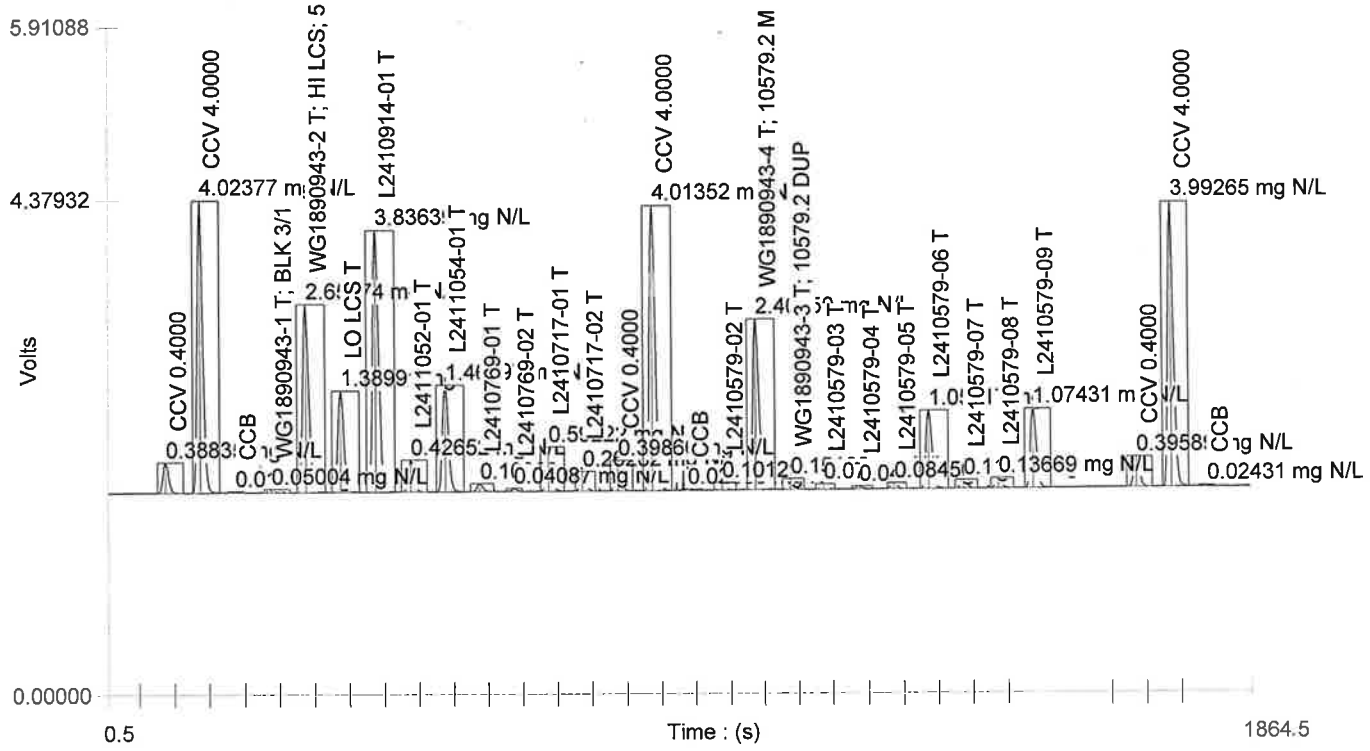
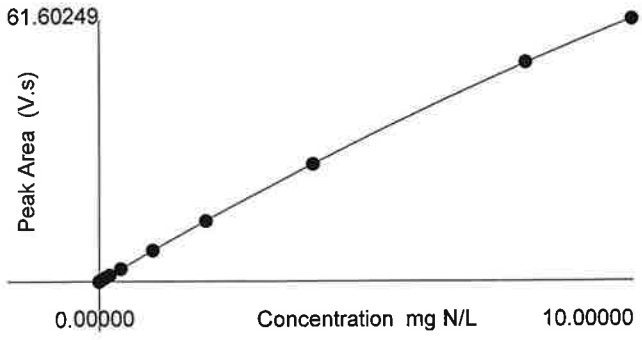


Table : 1 (Ammonia)

	Known Conc. (mg N/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg N/L)	Detection Date	Detection Time
1	10.00000	1	61.60249	5.48110	0.0	0.1	9.94197	3/1/2024	3:56:04 PM
2	8.00000	1	51.49138	4.80787	0.0	-0.3	8.06775	3/1/2024	3:57:00 PM
3	4.00000	1	27.56353	2.64580	0.0	0.2	4.01272	3/1/2024	3:57:58 PM
4	2.00000	1	14.17308	1.36006	0.0	0.8	1.97677	3/1/2024	3:58:55 PM
5	1.00000	1	7.25077	0.69033	0.0	0.1	0.98992	3/1/2024	3:59:53 PM
6	0.40000	1	2.95680	0.27827	0.0	-1.3	0.40025	3/1/2024	4:00:51 PM
7	0.20000	1	1.44765	0.13523	0.0	0.4	0.19710	3/1/2024	4:01:48 PM
8	0.10000	1	0.74642	0.07104	0.0	-4.1	0.10343	3/1/2024	4:02:47 PM
9	0.05000	1	0.39562	0.03662	0.0	-13.8	0.05674	3/1/2024	4:03:45 PM
10	0.00000	1	-0.08440	-0.00477			-0.00696	3/1/2024	4:04:41 PM

Figure : 1 (Ammonia)



Area = - 0.12334 * Conc^2 + 7.40477 * Conc - 0.02225
Conc = 0.00047 * Area^2 + 0.13256 * Area + 0.00422
Correlation Coefficient (r) = 1.00000

Weighting : 1/x

Author: A1WETCHEMINSTRUMENT

Date : 3/1/2024

Original Run Filename: OM_3-1-2024_06-09-18PM.OMN Created: 3/1/2024 6:09:18 PM
Original Run Author's Signature: [A1WETCHEMINSTRUMENT]
Current Run Filename: OM_3-1-2024_06-09-18PM.OMN Last Modified: 3/1/2024 6:37:46 PM
Current Run Author's Signature: [A1WETCHEMINSTRUMENT]
Description: Default New Run

Sample	Rep.	Cup No.	Channel 2 Ammonia (mg N/L)	ADF	MDF	Weight
CCV 0.4000	1	S6	0.39474			
	Known Conc:		100.00000			
CCV 4.0000	1	S3	4.02896			
	Known Conc:		100.00000			
	Calibration:		Table/Fig. : 1			
CCB	1	S10	0.02530			
	Known Conc:		100.00000			
WG1890775-1; BLK 2/29	1	1	0.01407		1.50	
WG1890775-2; HI LCS; 5X	1	2	19.77342		7.50	
LO LCS	1	3	1.84759		1.50	
L2410403-01	1	4	4.93478		1.50	
WG1890775-4; 10403.1 MS	1	5	8.54857		1.50	
WG1890775-3; 10403.1 DUP	1	6	5.09077		1.50	
L2410403-03	1	7	0.96012		1.50	
L2410403-05	1	8	0.04228		1.50	
L2410731-02	1	9	0.02144		1.50	
L2410731-03	1	10	0.34737		1.50	
CCV 0.4000	1	S6	0.38757			
	Known Conc:		100.00000			
CCV 4.0000	1	S3	4.00688			
	Known Conc:		100.00000			
CCB	1	S10	0.03023			
	Known Conc:		100.00000			
L2410731-04	1	11	0.59782		1.50	
L2410731-05	1	12	1.14022		1.50	
L2410731-06	1	13	0.69234		1.50	
L2410731-07	1	14	0.03741		1.50	
L2410731-08	1	15	0.13496		1.50	
L2410731-09	1	16	0.09589		1.50	
L2410731-10	1	17	0.93853		1.50	
CCV 0.4000	1	S6	0.39036			
	Known Conc:		100.00000			
CCV 4.0000	1	S3	3.99288			
	Known Conc:		100.00000			
CCB	1	S10	0.02698			
	Known Conc:		100.00000			

Author: A1WETCHEMINSTRUMENT

Date : 3/1/2024

Channel 2 (Ammonia High) - Current View

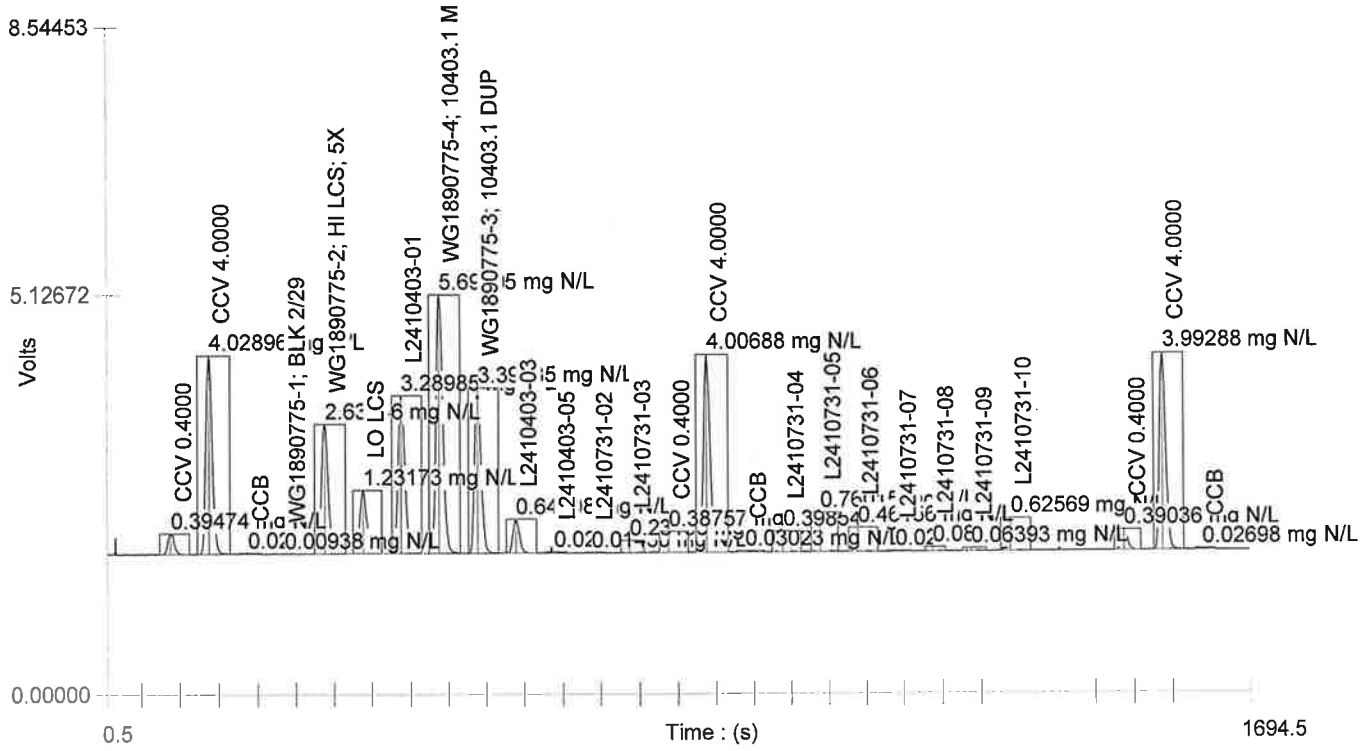
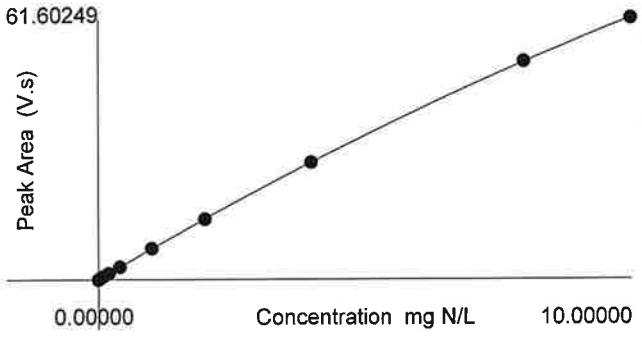


Table : 1 (Ammonia)

	Known Conc. (mg N/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg N/L)	Detection Date	Detection Time
1	10.00000	1	61.60249	5.48110	0.0	0.1	9.94197	3/1/2024	3:56:04 PM
2	8.00000	1	51.49138	4.80787	0.0	-0.3	8.06775	3/1/2024	3:57:00 PM
3	4.00000	1	27.56353	2.64580	0.0	0.2	4.01272	3/1/2024	3:57:58 PM
4	2.00000	1	14.17308	1.36006	0.0	0.8	1.97677	3/1/2024	3:58:55 PM
5	1.00000	1	7.25077	0.69033	0.0	0.1	0.98992	3/1/2024	3:59:53 PM
6	0.40000	1	2.95680	0.27827	0.0	-1.3	0.40025	3/1/2024	4:00:51 PM
7	0.20000	1	1.44765	0.13523	0.0	0.4	0.19710	3/1/2024	4:01:48 PM
8	0.10000	1	0.74642	0.07104	0.0	-4.1	0.10343	3/1/2024	4:02:47 PM
9	0.05000	1	0.39562	0.03662	0.0	-13.8	0.05674	3/1/2024	4:03:45 PM
10	0.00000	1	-0.08440	-0.00477			-0.00696	3/1/2024	4:04:41 PM

Figure : 1 (Ammonia)



Area = - 0.12334 * Conc^2 + 7.40477 * Conc - 0.02225
Conc = 0.00047 * Area^2 + 0.13256 * Area + 0.00422
Correlation Coefficient (r) = 1.00000

Weighting : 1/x

Author: A1WETCHEMINSTRUMENT

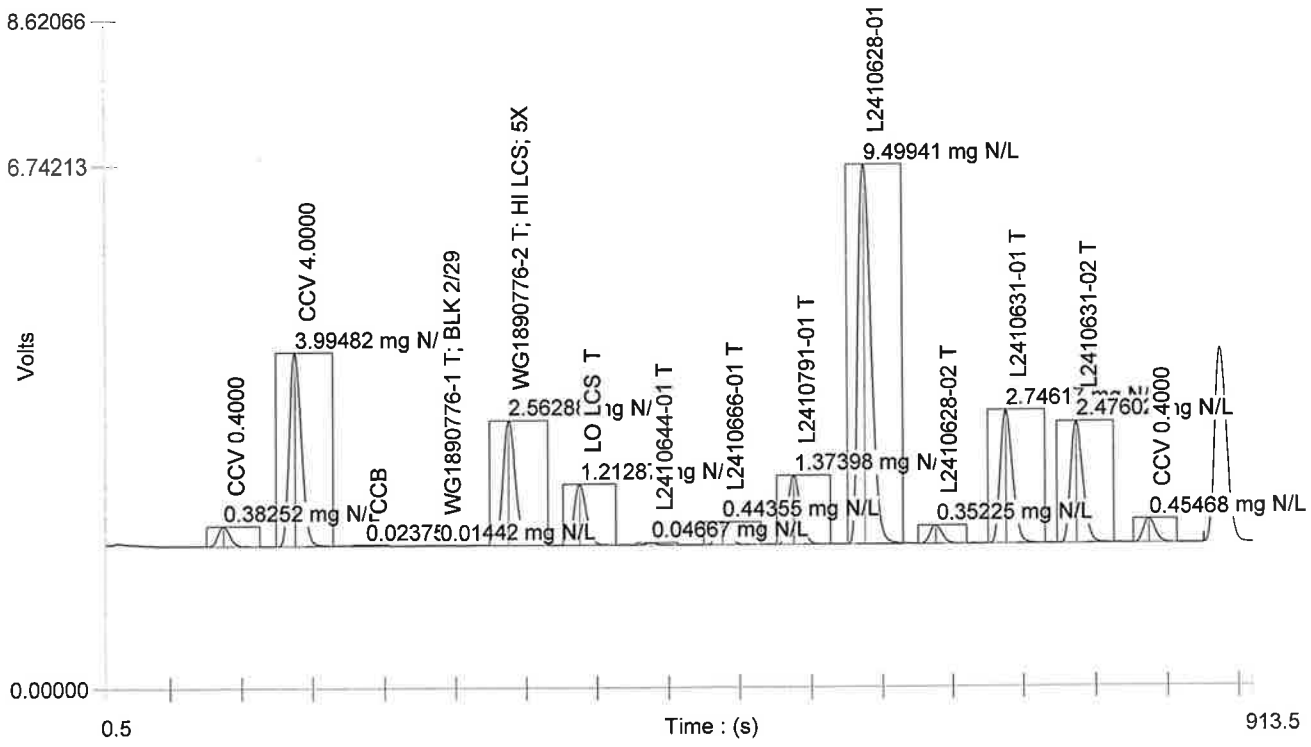
Date : 3/1/2024

Original Run Filename: OM_3-1-2024_07-26-01PM.OMN Created: 3/1/2024 7:26:01 PM
Original Run Author's Signature: [A1WETCHEMINSTRUMENT]
Current Run Filename: OM_3-1-2024_07-26-01PM.OMN Last Modified: 3/1/2024 7:41:37 PM
Current Run Author's Signature: [A1WETCHEMINSTRUMENT]
Description: Default New Run

Sample	Rep.	Cup No.	Channel 2 Ammonia (mg N/L)	ADF	MDF	Weight
CCV 0.4000	1	S6	0.38252			
	Known Conc:		100.00000			
CCV 4.0000	1	S3	3.99482			
	Known Conc:		100.00000			
	Calibration:		Table/Fig. : 1			
CCB	1	S10	0.02375			
	Known Conc:		100.00000			
WG1890776-1 T; BLK 2/29	1	1	0.01442			
WG1890776-2 T; HI LCS; 5X	1	2	38.44326		15.00	
LO LCS T	1	3	3.63862		3.00	
L2410644-01 T	1	4	0.14000		3.00	
L2410666-01 T	1	5	1.33066		3.00	
L2410791-01 T	1	6	4.12193		3.00	
L2410628-01 T	1	7	28.49822		3.00	
L2410628-02 T	1	8	1.05674		3.00	
L2410631-01 T	1	9	8.23850		3.00	
L2410631-02 T	1	10	7.42805		3.00	
CCV 0.4000	1	S6	0.45468			
	Known Conc:		100.00000			

reinject . OK

Channel 2 (Ammonia High) - Current View



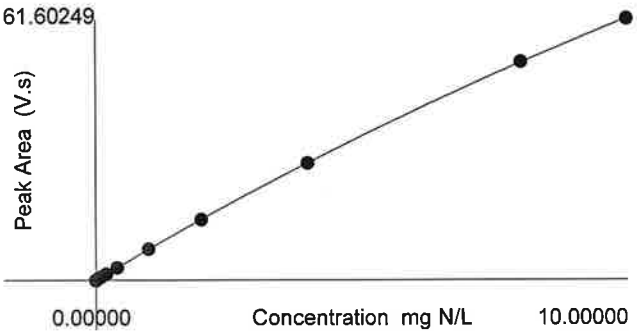
Author: A1WETCHEMINSTRUMENT

Date : 3/1/2024

Table : 1 (Ammonia)

	Known Conc. (mg N/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg N/L)	Detection Date	Detection Time
1	10.00000	1	61.60249	5.48110	0.0	0.1	9.94197	3/1/2024	3:56:04 PM
2	8.00000	1	51.49138	4.80787	0.0	-0.3	8.06775	3/1/2024	3:57:00 PM
3	4.00000	1	27.56353	2.64580	0.0	0.2	4.01272	3/1/2024	3:57:58 PM
4	2.00000	1	14.17308	1.36006	0.0	0.8	1.97677	3/1/2024	3:58:55 PM
5	1.00000	1	7.25077	0.69033	0.0	0.1	0.98992	3/1/2024	3:59:53 PM
6	0.40000	1	2.95680	0.27827	0.0	-1.3	0.40025	3/1/2024	4:00:51 PM
7	0.20000	1	1.44765	0.13523	0.0	0.4	0.19710	3/1/2024	4:01:48 PM
8	0.10000	1	0.74642	0.07104	0.0	-4.1	0.10343	3/1/2024	4:02:47 PM
9	0.05000	1	0.39562	0.03662	0.0	-13.8	0.05674	3/1/2024	4:03:45 PM
10	0.00000	1	-0.08440	-0.00477			-0.00696	3/1/2024	4:04:41 PM

Figure : 1 (Ammonia)



Area = - 0.12334 * Conc^2 + 7.40477 * Conc - 0.02225
Conc = 0.00047 * Area^2 + 0.13256 * Area + 0.00422
Correlation Coefficient (r) = 1.00000

Weighting : 1/x

Author: A1WETCHEMINSTRUMENT

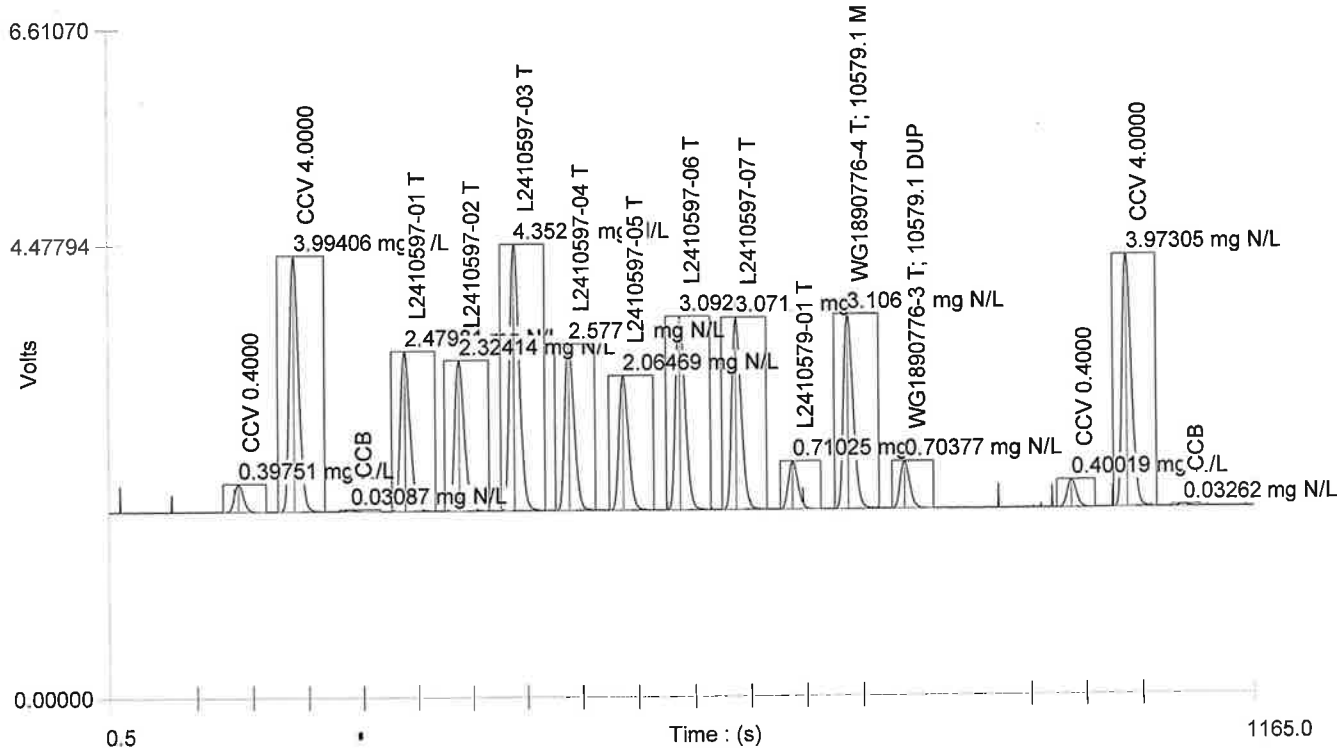
Date : 3/1/2024

Original Run Filename: OM_3-1-2024_07-43-08PM.OMN Created: 3/1/2024 7:43:08 PM
Original Run Author's Signature: [A1WETCHEMINSTRUMENT]
Current Run Filename: OM_3-1-2024_07-43-08PM.OMN Last Modified: 3/1/2024 8:02:46 PM
Current Run Author's Signature: [A1WETCHEMINSTRUMENT]
Description: Default New Run

Sample	Rep.	Cup No.	Channel 2 Ammonia (mg N/L)	ADF	MDF	Weight
CCV 0.4000	1	S6	0.39751			
	Known Conc:		100.00000			
CCV 4.0000	1	S3	3.99406			
	Known Conc:		100.00000			
	Calibration:		Table/Fig. : 1			
CCB	1	S10	0.03087			
	Known Conc:		100.00000			
L2410597-01 T	1	11	7.43943		3.00	
L2410597-02 T	1	12	6.97241		3.00	
L2410597-03 T	1	13	13.05823		3.00	
L2410597-04 T	1	14	7.73238		3.00	
L2410597-05 T	1	15	6.19406		3.00	
L2410597-06 T	1	16	9.27762		3.00	
L2410597-07 T	1	17	9.21361		3.00	
L2410579-01 T	1	18	2.13076		3.00	90%
WG1890776-4 T; 10579.1 MS	1	19	9.32058		3.00	
WG1890776-3 T; 10579.1 DUP	1	20	2.11130		3.00	1%
CCV 0.4000	1	S6	0.40019			
	Known Conc:		100.00000			
CCV 4.0000	1	S3	3.97305			
	Known Conc:		100.00000			
CCB	1	S10	0.03262			
	Known Conc:		100.00000			

E2

Channel 2 (Ammonia High) - Current View



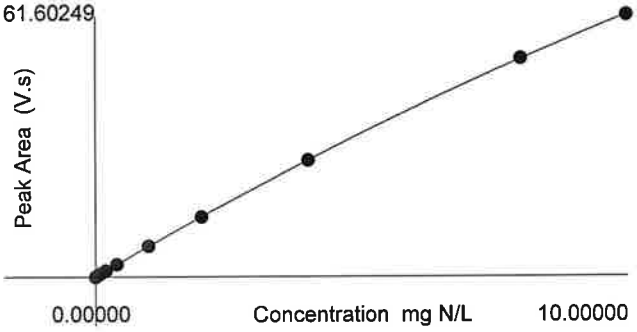
Author: A1WETCHEMINSTRUMENT

Date : 3/1/2024

Table : 1 (Ammonia)

	Known Conc. (mg N/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg N/L)	Detection Date	Detection Time
1	10.00000	1	61.60249	5.48110	0.0	0.1	9.94197	3/1/2024	3:56:04 PM
2	8.00000	1	51.49138	4.80787	0.0	-0.3	8.06775	3/1/2024	3:57:00 PM
3	4.00000	1	27.56353	2.64580	0.0	0.2	4.01272	3/1/2024	3:57:58 PM
4	2.00000	1	14.17308	1.36006	0.0	0.8	1.97677	3/1/2024	3:58:55 PM
5	1.00000	1	7.25077	0.69033	0.0	0.1	0.98992	3/1/2024	3:59:53 PM
6	0.40000	1	2.95680	0.27827	0.0	-1.3	0.40025	3/1/2024	4:00:51 PM
7	0.20000	1	1.44765	0.13523	0.0	0.4	0.19710	3/1/2024	4:01:48 PM
8	0.10000	1	0.74642	0.07104	0.0	-4.1	0.10343	3/1/2024	4:02:47 PM
9	0.05000	1	0.39562	0.03662	0.0	-13.8	0.05674	3/1/2024	4:03:45 PM
10	0.00000	1	-0.08440	-0.00477			-0.00696	3/1/2024	4:04:41 PM

Figure : 1 (Ammonia)



Area = - 0.12334 * Conc^2 + 7.40477 * Conc - 0.02225
Conc = 0.00047 * Area^2 + 0.13256 * Area + 0.00422
Correlation Coefficient (r) = 1.00000

Weighting : 1/x

Author: A1WETCHEMINSTRUMENT

Date : 3/1/2024

Original Run Filename: OM_3-1-2024_08-03-29PM.OMN Created: 3/1/2024 8:03:29 PM
Original Run Author's Signature: [A1WETCHEMINSTRUMENT]
Current Run Filename: OM_3-1-2024_08-03-29PM.OMN Last Modified: 3/1/2024 8:44:15 PM
Current Run Author's Signature: [A1WETCHEMINSTRUMENT]
Description: Default New Run

Sample	Rep.	Cup No.	Channel 2 Ammonia (mg N/L)	ADF	MDF	Weight
CCV 0.4000	1	S6	0.39478			
	Known Conc:		100.00000			
CCV 4.0000	1	S3	3.97105			
	Known Conc:		100.00000			
	Calibration:		Table/Fig. : 1			
CCB	1	S10	0.03463			
	Known Conc:		100.00000			
WG1890773-1; BLK 2/29	1	1	0.03457		1.50	
WG1890773-2; HI LCS; 5X	1	2	20.97366		7.50	
LO LCS	1	3	1.77676		1.50	
L2410048-01	1	4	2.12059		1.50	
WG1890773-4; 10048.1 MS	1	5	6.08025		1.50	
WG1890773-3; 10048.1 DUP	1	6	2.25509		1.50	
L2410654-01	1	7	0.28363		1.50	
L2410654-02	1	8	0.16841		1.50	
L2410654-03	1	9	0.14661		1.50	
L24010654-04	1	10	0.57018		7.50	
CCV 0.4000	1	S6	0.39660			
	Known Conc:		100.00000			
CCV 4.0000	1	S3	3.96774			
	Known Conc:		100.00000			
CCB	1	S10	0.03505			
	Known Conc:		100.00000			
L2410686-01	1	11	9.98203		7.50	
L2410686-02	1	12	1.17488		1.50	
L2410687-01	1	13	12.61607		1.50	
L2410687-02	1	14	4.47679		1.50	
L2410705-01	1	15	2.29898		15.00	
L2410705-02	1	16	2.55772		30.00	
~~L2410792-01~~	~~1~~	~~17~~	~~21.68081~~		~~1.50~~	
~~L2410856-01~~	~~1~~	~~18~~	~~9.29396~~		~~30.00~~	
L2410425-03; 25X	1	19	25.01658		37.50	
L2410425-02	1	20	0.88288		1.50	
CCV 0.4000	1	S6	0.40813			
	Known Conc:		100.00000			
CCV 4.0000	1	S3	3.96688			
	Known Conc:		100.00000			
CCB	1	S10	0.03633			
	Known Conc:		100.00000			
L2410635-01	1	21	0.02643		1.50	
L2410635-02	1	22	0.09662		1.50	
L2410636-01	1	23	0.54844		1.50	
L2410636-02	1	24	0.57304		1.50	
L2410636-03	1	25	0.08368		1.50	
L2410792-01; 10X	1	26	23.86285		15.00	
L2410856-01	1	27	2.57976		30.00	
CCV 0.4000	1	S6	0.39182			
	Known Conc:		100.00000			
CCV 4.0000	1	S3	3.95599			
	Known Conc:		100.00000			
CCB	1	S10	0.03628			
	Known Conc:		100.00000			

F

105%
88%
99%
6%

w/ dilution

Author: A1WETCHEMINSTRUMENT

Date : 3/1/2024

Channel 2 (Ammonia High) - Current View

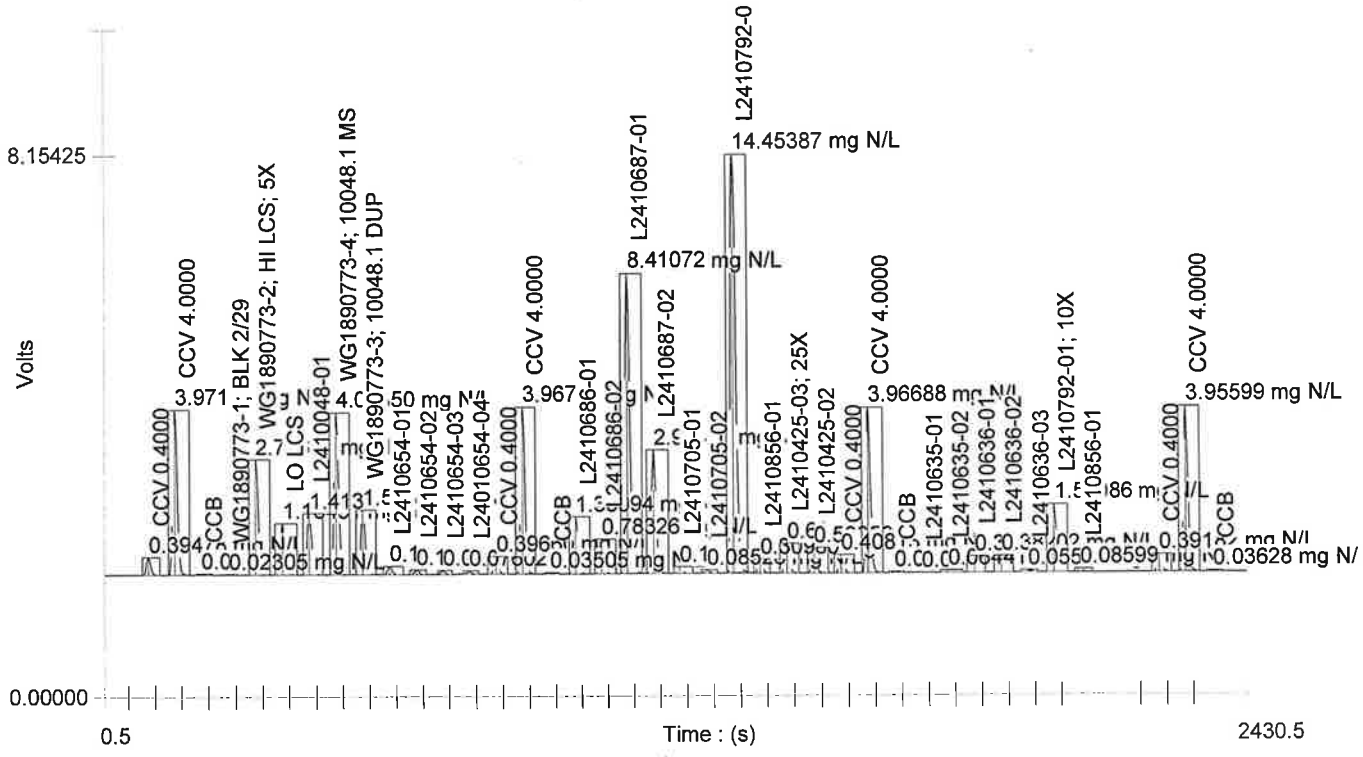
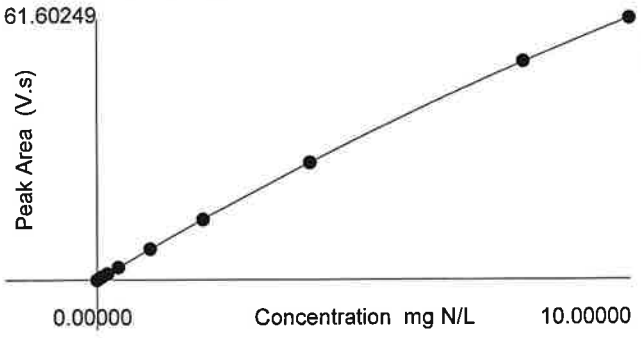


Table : 1 (Ammonia)

	Known Conc. (mg N/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg N/L)	Detection Date	Detection Time
1	10.00000	1	61.60249	5.48110	0.0	0.1	9.94197	3/1/2024	3:56:04 PM
2	8.00000	1	51.49138	4.80787	0.0	-0.3	8.06775	3/1/2024	3:57:00 PM
3	4.00000	1	27.56353	2.64580	0.0	0.2	4.01272	3/1/2024	3:57:58 PM
4	2.00000	1	14.17308	1.36006	0.0	0.8	1.97677	3/1/2024	3:58:55 PM
5	1.00000	1	7.25077	0.69033	0.0	0.1	0.98992	3/1/2024	3:59:53 PM
6	0.40000	1	2.95680	0.27827	0.0	-1.3	0.40025	3/1/2024	4:00:51 PM
7	0.20000	1	1.44765	0.13523	0.0	0.4	0.19710	3/1/2024	4:01:48 PM
8	0.10000	1	0.74642	0.07104	0.0	-4.1	0.10343	3/1/2024	4:02:47 PM
9	0.05000	1	0.39562	0.03662	0.0	-13.8	0.05674	3/1/2024	4:03:45 PM
10	0.00000	1	-0.08440	-0.00477			-0.00696	3/1/2024	4:04:41 PM

Figure : 1 (Ammonia)



Area = - 0.12334 * Conc^2 + 7.40477 * Conc - 0.02225
Conc = 0.00047 * Area^2 + 0.13256 * Area + 0.00422
Correlation Coefficient (r) = 1.00000

Weighting : 1/x

Quality Control

Form 5a
Matrix Spike

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Client Sample ID	: MW-1S	**Matrix**	: WATER
Lab Sample ID	: L2410579-01		
Matrix Spike	: WG1890944-4	**MS Analysis Date**	: 03/01/24 17:17
Matrix Spike Dup	:	**MSD Analysis Date**	:

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	Sample Conc. (mg/l)	Spike Added (mg/l)	Spike Conc. (mg/l)	%R	Spike Added (mg/l)	Spike Conc. (mg/l)	%R	RPD	Recovery Limits	RPD Limit
Nitrogen, Ammonia	1.37	4	5.18	95					90-110	20

Form 6
Lab Duplicates

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Client Sample ID	: MW-1S	**Matrix**	: WATER
Lab Sample ID	: L2410579-01	**Analysis Date**	: 03/01/24 17:16
Dup Sample ID	: WG1890944-3	**DUP Analysis Date**	: 03/01/24 17:18

Parameter	Sample Concentration (mg/l)	Duplicate Concentration (mg/l)	RPD	RPD Limit
Nitrogen, Ammonia	1.37	1.49	8	20

Form 7
Laboratory Control Sample

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: WG1890944-2	**LCS Analysis Date**	: 03/01/24 17:04
Dup Sample ID	:	**LCSD Analysis Date**	:

	Laboratory Control Sample			Laboratory Control Duplicate					
	True	Found	%R	True	Found	%R	RPD	Recovery	RPD
Parameter	(mg/l)	(mg/l)		(mg/l)	(mg/l)			Limits	Limit
Nitrogen, Ammonia	20.0	19.4	97.					90-110	20

Date Created: 11/11/21
Created By: Jason Hebert
File: PM11467-1
Page: 1

WETCHEM (WATER)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Method	Holding Time	Container/Sample Preservation
Nitrogen, Ammonia	7664-41-7	0.075	0.024	mg/l	80-120	20	80-120	20	20	4500NH3-BH	28 days	1 - Plastic 500ml H2SO4 preserved
Nitrogen, Ammonia	7664-41-7	0.075	0.024	mg/l	90-110	20	90-110	20	20	350.1	28 days	1 - Plastic 500ml H2SO4 preserved

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

Date Created: 11/11/21
Created By: Jason Hebert
File: PM11468-1
Page: 1

WETCHEM (SOIL)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Method	Holding Time	Container/Sample Preservation
Nitrogen, Ammonia	7664-41-7	7.5	2.79	mg/kg	83-115	20	55-144	20	20	4500NH3-BH	28 days	1 - Glass 250ml/8oz unpreserved

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

Calculations of Nitrogen in Ammonia

Aqueous samples:

Compute sample NH_3 –N concentration by comparing sample peak areas with standard curve, as determined by the Lachat instrument software.

If the sample has a concentration of less than 2ppm, calculate results by using the low curve generated on Channel 1.

If the sample concentration is greater than 2ppm, calculate the results by using the high curve generated on Channel 2.

To Compute the final results for aqueous samples, multiply the direct reading by the dilution factor based on the initial preparation volume. (also done using software)

NH_3-N mg/L = mg/L direct reading x dilution factor

Sequence Logs

Project No. _____ MH 3/1/24 (AO)

idential Book No. _____ TITLE _____

Page No. ____

tf: A (03:55:02pm)
Rup 2/29/24 @1743

1 Hi IW 8.0
2 Lo IW 1.0
3 Eng
4 Wk-1890718-1 T; Blk 2/29
5 Wk-1890718-2 T; Hi ws T
6 Lo ws T
7 10108.1 T
8 .2 T
9 10318.1 T
10 10446.4 T
11 .5 T
12 10106.1 T
13 .2 T
14 .3 T
15 10107.1 T
16 .2 T
17 10487.1 T
18 10530.1 T
19 Wk-1890718-4 T; 10530.1 ws
20 Wk-1890718-3 T; 10530.1 Bp
21 10109.1 T
22 10507.1 T
23 .3 T

tf: B (04:59:39pm)
Rup 3/1/24 @1025

1 Wk-1890944-1; Blk 3/1 (1890945)
2 Wk-1890944-2; Hi ws T
3 Lo ws
4 10653.1
5 .2
6 .3
7 Wk-1890945-4; 10653.3 ws
8 Wk-1890945-3; 10653.3 Bp
9 10717.1
10 .2
11 11124.1
12 10579.1
13 Wk-1890944-4; 10579.1 ws
14 Wk-1890944-3; 10579.1 Bp
15 10579.2
16 .3
17 .4
18 .5
19 .6
20 .7
21 .8
22 .9
23 10892.1

Date: 3/1/24
Sodium Phenolate: 2/20/24 R-4065
Sodium Hypochlorate: 3/1/24 drop ship
Sodium Nitropruisside: 2/20/24 R-5987
Borric Acid Soln.: 3/1/24 R-4019
ICV 1.0: 2/24/24 WC-5402
ICV 8.0:
Cal. Std: 2/28/24 WC-3294

essed & See Front Page for Instructions: Date Invented by: Date

Recorded by:

From Page No.

tg: C (05-37-18pm)
Rep 3/1/24 @1031

1 wh 890943-1 T. Blu 3/1
2 wh 890943-2 T; Hi wgt +
3 6 ws T
4 10914.1 T
5 11052.1 T (5+)
6 11054.1 T
7 10769.1 T
8 .2 T
9 10717.1 T (5+)
10 .2 T
11 10579.2 T
12 wh 890943-4 T; 10579.2 ws
13 wh 890943-3 T. 10579.2 hp
14 10579.3 T
15 .4 T
16 .5 T
17 .6 T
18 .7 T
19 .8 T
20 .9 T

tg: D (06-09-18pm)
Rep 2/29/24 @2216

1 wh 890775-1. Blu 2/29
2 wh 890775-2; Hi wgt +
3 6 ws
4 10403.1
5 wh 890775-4. 10403.1 ws
6 wh 890775-3; 10403.1 hp
7 10403.3
8 .5 —
9 10731.2 —
10 .3
11 .4 —
12 .5
13 .6
14 .7
15 .8
16 .9
17 .10

To Page No.

Witnessed & Understood by me,	Date	Invented by:	Date
		Recorded by:	

111

tg-E (07-26-01pm)
Rg 2/29/24 @2222

1 Wv 890776.1 T; Blk 2/29
2 Wv 890776.2 T; Hi wg 5 T
3 Low wg T
4 10644.1 T
5 10666.1 T
6 10791.1 T
7 10628.1 T
8 .2 T
9 10631.1 T
10 .2 T
11 10577.1 T
12 .2 T
13 .3 T
14 .4 T
15 .5 T
16 .6 T
17 .7 T
18 10579.1 T
19 Wv 890776.4 T; 10577.1 wg
20 Wv 890776.3 T; 10579.1 Rg

0743-08pm

tg-F (08-03-29pm)
Rg 2/29/24 @1908

1 Wv 890773.1; Blk 2/29
2 Wv 890773.2; Hi wg 5 T
3 Low wg
4 10048.1
5 Wv 890773.4; 10048.1 wg
6 Wv 890773.3; 10048.1 Rg
7 10654.1
8 .2
9 .3
10 .4 (5T)
11 10686.1 (5T)
12 .2
13 10687.1
14 .2
15 10705.1 (10T)
16 .2 (20T)
17 10792.1 -10T
18 10856.1 (20T)
19 10425.3 - 25T
20 .2
21 10635.1
22 .2
23 10636.1
24 .2
25 .3

itnessed & Understood by me, | Date | Invented by: | Date
Recorded by:

Sample Preparation

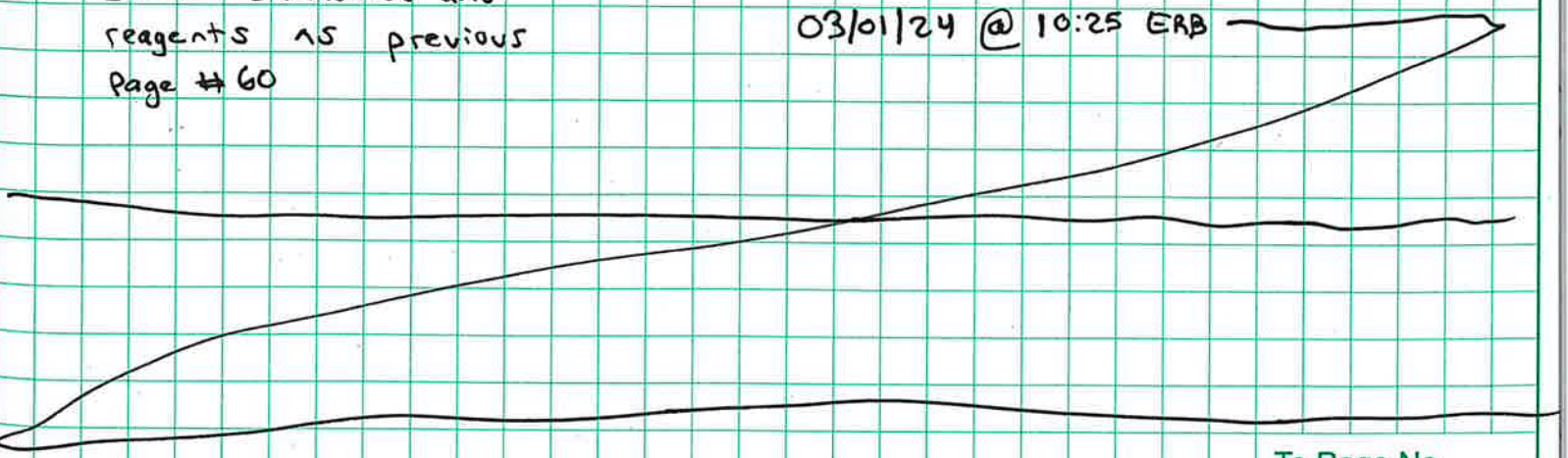
From Page No. ____

WG1890944 WG1890945

Sample	Vol. 100mL	Dil. 1X	Int pH <2	ADJ PH ~9.5	Final vol. 150 mL
Blank					
Low					
High					
① L2410579-01PA					
-01 Dup					
-01 MS					
-02					
-03					
-04					
-05					
-06					
-07					
-08					
-09					
0892-01					
② L2410653-01					
-02					
-03PA					
-03 Dup					
-03 MS					
0717-01					
-02					
1124-01					

Same Standards and reagents as previous Page # 60

03/01/24 @ 10:25 ERB



To Page No. ____

Nitrate and Nitrite Analysis

Results

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2410579-01	**Date Collected**	: 02/26/24 14:10
Client ID	: MW-1S	**Date Received**	: 02/27/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 03/05/24 12:30
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500NO3-F	**Analyst**	: KAF
Lab File ID	: NO3240305-G1	**Instrument ID**	: LACHAT
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Nitrate/Nitrite	0.080	0.10	0.046	J

Form 1
WETCHEM

Client	:	**Alpha Geoscience**	**Lab Number**	:	**L2410579**
Project Name	:	**HUNTINGTON READY MIX**	**Project Number**	:	**20116**
Lab ID	:	**L2410579-02**	**Date Collected**	:	**02/26/24 15:25**
Client ID	:	**MW-2S**	**Date Received**	:	**02/27/24**
Sample Location	:	**SPEONK, NY**	**Date Analyzed**	:	**03/05/24 12:34**
Sample Matrix	:	**WATER**	**Dilution Factor**	:	**1**
Analytical Method	:	**121,4500NO3-F**	**Analyst**	:	**KAF**
Lab File ID	:	**NO3240305-G1**	**Instrument ID**	:	**LACHAT**
Sample Amount	:		**%Solids**	:	**N/A**
Digestion Method	:		**Date Digested**	:	

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	**Nitrogen, Nitrate/Nitrite**	**1.5**	**0.10**	**0.046**	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2410579-03	**Date Collected**	: 02/26/24 16:30
Client ID	: MW-3S	**Date Received**	: 02/27/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 03/05/24 12:35
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500NO3-F	**Analyst**	: KAF
Lab File ID	: NO3240305-G1	**Instrument ID**	: LACHAT
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Nitrate/Nitrite	6.9	0.10	0.046	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2410579-04	**Date Collected**	: 02/27/24 09:05
Client ID	: MW-4D	**Date Received**	: 02/27/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 03/05/24 12:59
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500NO3-F	**Analyst**	: KAF
Lab File ID	: NO3240305-H1	**Instrument ID**	: LACHAT
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Nitrate/Nitrite	0.52	0.10	0.046	

Form 1
WETCHEM

Client	:	**Alpha Geoscience**	**Lab Number**	:	**L2410579**
Project Name	:	**HUNTINGTON READY MIX**	**Project Number**	:	**20116**
Lab ID	:	**L2410579-05**	**Date Collected**	:	**02/27/24 08:40**
Client ID	:	**MW-5S**	**Date Received**	:	**02/27/24**
Sample Location	:	**SPEONK, NY**	**Date Analyzed**	:	**03/05/24 13:00**
Sample Matrix	:	**WATER**	**Dilution Factor**	:	**1**
Analytical Method	:	**121,4500NO3-F**	**Analyst**	:	**KAF**
Lab File ID	:	**NO3240305-H1**	**Instrument ID**	:	**LACHAT**
Sample Amount	:		**%Solids**	:	**N/A**
Digestion Method	:		**Date Digested**	:	

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	**Nitrogen, Nitrate/Nitrite**	**4.1**	**0.10**	**0.046**	

Form 1
WETCHEM

Client	:	**Alpha Geoscience**	**Lab Number**	:	**L2410579**
Project Name	:	**HUNTINGTON READY MIX**	**Project Number**	:	**20116**
Lab ID	:	**L2410579-06**	**Date Collected**	:	**02/26/24 16:35**
Client ID	:	**MW-6D**	**Date Received**	:	**02/27/24**
Sample Location	:	**SPEONK, NY**	**Date Analyzed**	:	**03/05/24 13:01**
Sample Matrix	:	**WATER**	**Dilution Factor**	:	**1**
Analytical Method	:	**121,4500NO3-F**	**Analyst**	:	**KAF**
Lab File ID	:	**NO3240305-H1**	**Instrument ID**	:	**LACHAT**
Sample Amount	:		**%Solids**	:	**N/A**
Digestion Method	:		**Date Digested**	:	

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	**Nitrogen, Nitrate/Nitrite**	**0.29**	**0.10**	**0.046**	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2410579-07	**Date Collected**	: 02/26/24 14:45
Client ID	: MW-7S	**Date Received**	: 02/27/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 03/05/24 13:03
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500NO3-F	**Analyst**	: KAF
Lab File ID	: NO3240305-H1	**Instrument ID**	: LACHAT
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Nitrate/Nitrite	5.8	0.10	0.046	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2410579-08	**Date Collected**	: 02/27/24 10:25
Client ID	: MW-8S	**Date Received**	: 02/27/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 03/05/24 13:04
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500NO3-F	**Analyst**	: KAF
Lab File ID	: NO3240305-H1	**Instrument ID**	: LACHAT
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Nitrate/Nitrite	0.27	0.10	0.046	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2410579-09	**Date Collected**	: 02/26/24 00:00
Client ID	: DUP	**Date Received**	: 02/27/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 03/05/24 13:05
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500NO3-F	**Analyst**	: KAF
Lab File ID	: NO3240305-H1	**Instrument ID**	: LACHAT
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Nitrate/Nitrite	0.26	0.10	0.046	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: WG1892111-1	**Date Collected**	: NA
Client ID	: WG1892111-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 03/05/24 08:45
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500NO3-F	**Analyst**	: KAF
Lab File ID	: NO3240305-C1	**Instrument ID**	: LACHAT
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Nitrate/Nitrite	ND	0.10	0.046	U

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: WG1892111-3	**Date Collected**	: 02/26/24 14:10
Client ID	: MW-1SDUP	**Date Received**	: 02/27/24
Sample Location	:	**Date Analyzed**	: 03/05/24 12:31
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500NO3-F	**Analyst**	: KAF
Lab File ID	: NO3240305-G1	**Instrument ID**	: LACHAT
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Nitrate/Nitrite	ND	0.10	0.05	U

Sample Raw Data

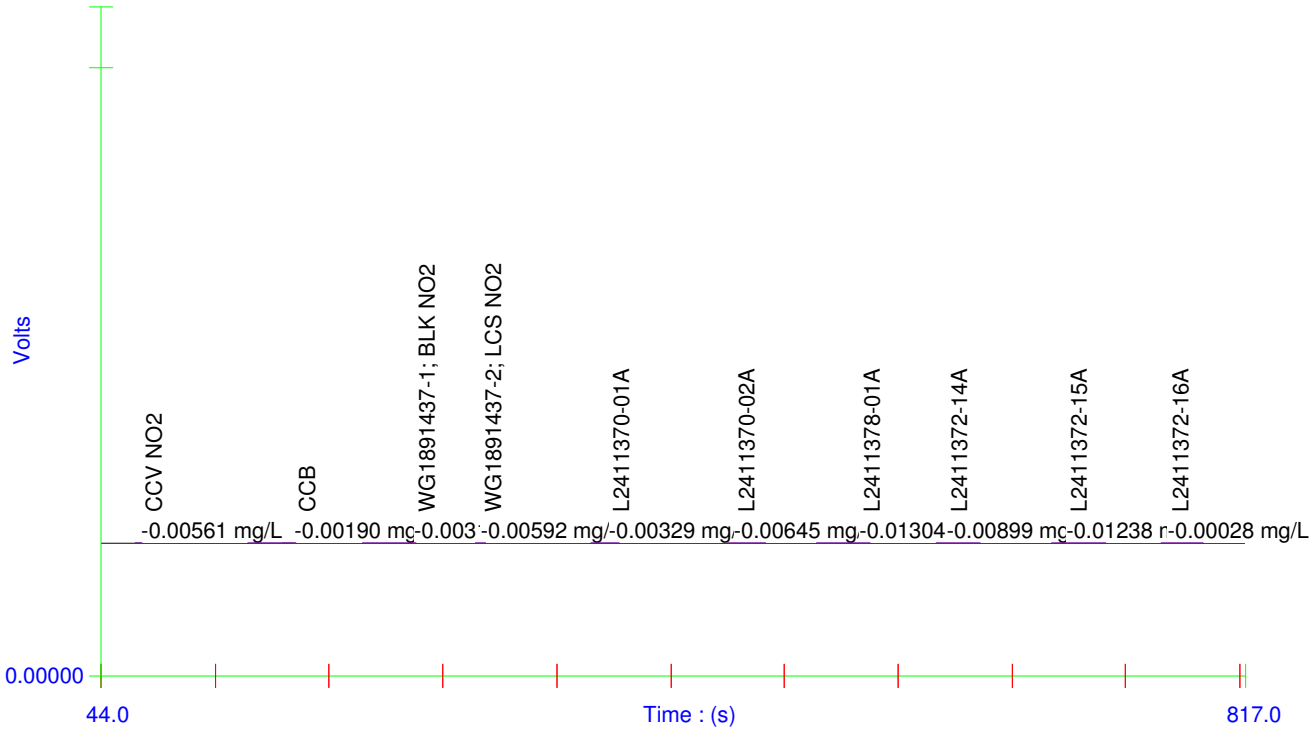
Author: MRM. NO2 ONLY Date : 3/2/2024

Original Run Filename: OM_3-2-2024_11-26-28AM.OMN Created: 3/2/2024 11:26:28 AM
Original Run Author's Signature: [A1wetcheminstrument]
Current Run Filename: OM_3-2-2024_11-26-28AM.OMN Last Modified: 3/2/2024 11:58:35 AM
Current Run Author's Signature: [A1wetcheminstrument]
Description: Default New Run

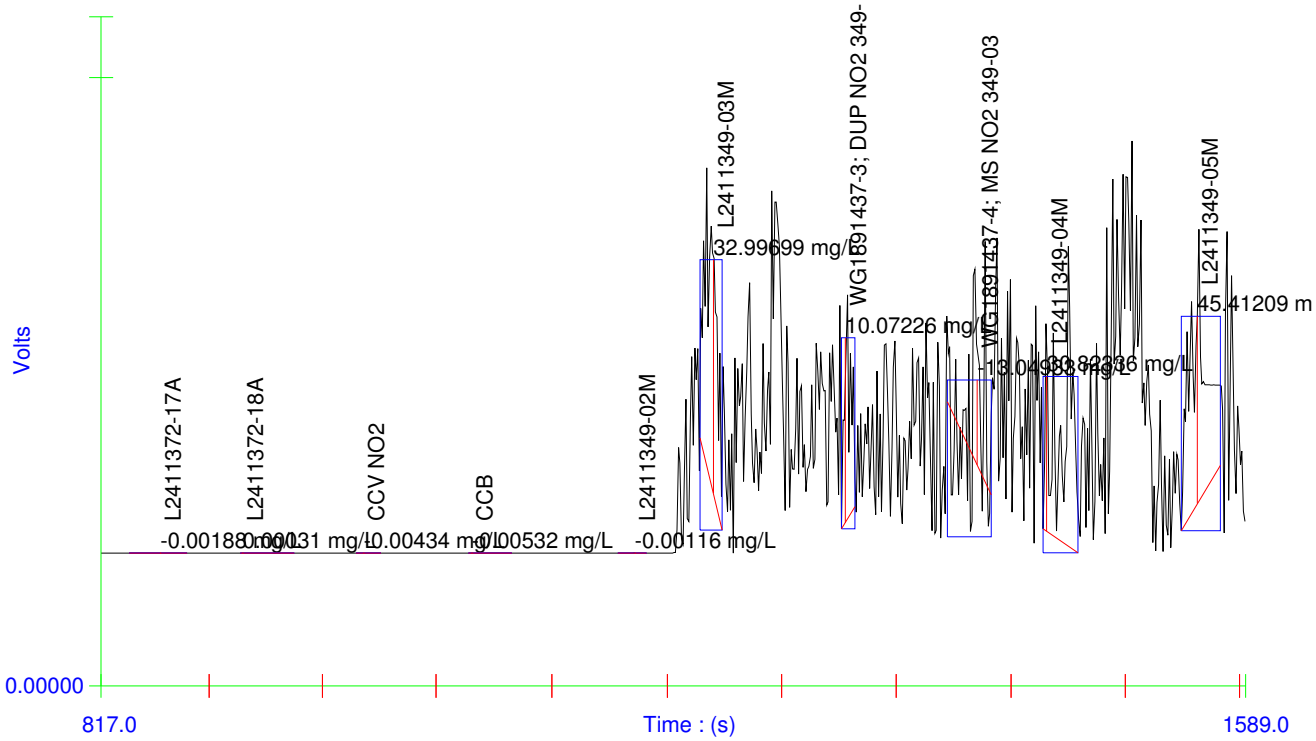
Sample	Rep.	Cup No.	Channel 1 NO3+NO2 (mg/L)	Channel 2 Nitrite (mg N/L)	ADF	MDF	Weight
CCV NO2	1	S9	-0.00561	1.06475			
	Known Conc:		1.00000	0.00000			
	Calibration:		Table/Fig. : 1	Table/Fig. : 2			
CCB	1	S1	-0.00190	-0.01228			
	Known Conc:		0.00000	0.00000			
WG1891437-1; BLK NO2	1	9	-0.00319	-0.00336			
WG1891437-2; LCS NO2	1	10	-0.00592	5.18635			
L2411370-01A	1	83	-0.00329	0.16139			
L2411370-02A	1	84	-0.00645	0.13604			
L2411378-01A	1	85	-0.01304	0.08377			
L2411372-14A	1	86	-0.00899	-0.01518			
L2411372-15A	1	87	-0.01238	-0.00287			
L2411372-16A	1	88	-0.00028	-0.00714			
L2411372-17A	1	89	-0.00188	-0.00592			
L2411372-18A	1	90	0.00031	-0.00380			
CCV NO2	1	S9	-0.00434	1.07458			
	Known Conc:		1.00000	0.00000			
CCB	1	S1	-0.00532	-0.00598			
	Known Conc:		0.00000	0.00000			
L2411349-02M	1	91	-0.00116	-0.00408			
L2411349-03M	1	92	32.99699	0.06818			
WG1891437-3; DUP NO2 349-03	1	95	10.07226	0.08009			
WG1891437-4; MS NO2 349-03	1	96	-13.04933	4.38833			
L2411349-04M	1	97	30.82336	0.12924			
L2411349-05M	1	98	45.41209	0.10110			
L2411349-06M	1	99	56.96265	0.05220			
CCV NO2	1	S9	8.04951	1.08603			
	Known Conc:		1.00000	0.00000			
CCB	1	S1	-83.95210	-0.00540			
	Known Conc:		0.00000	0.00000			

Author: MRM. NO2 ONLY Date : 3/2/2024

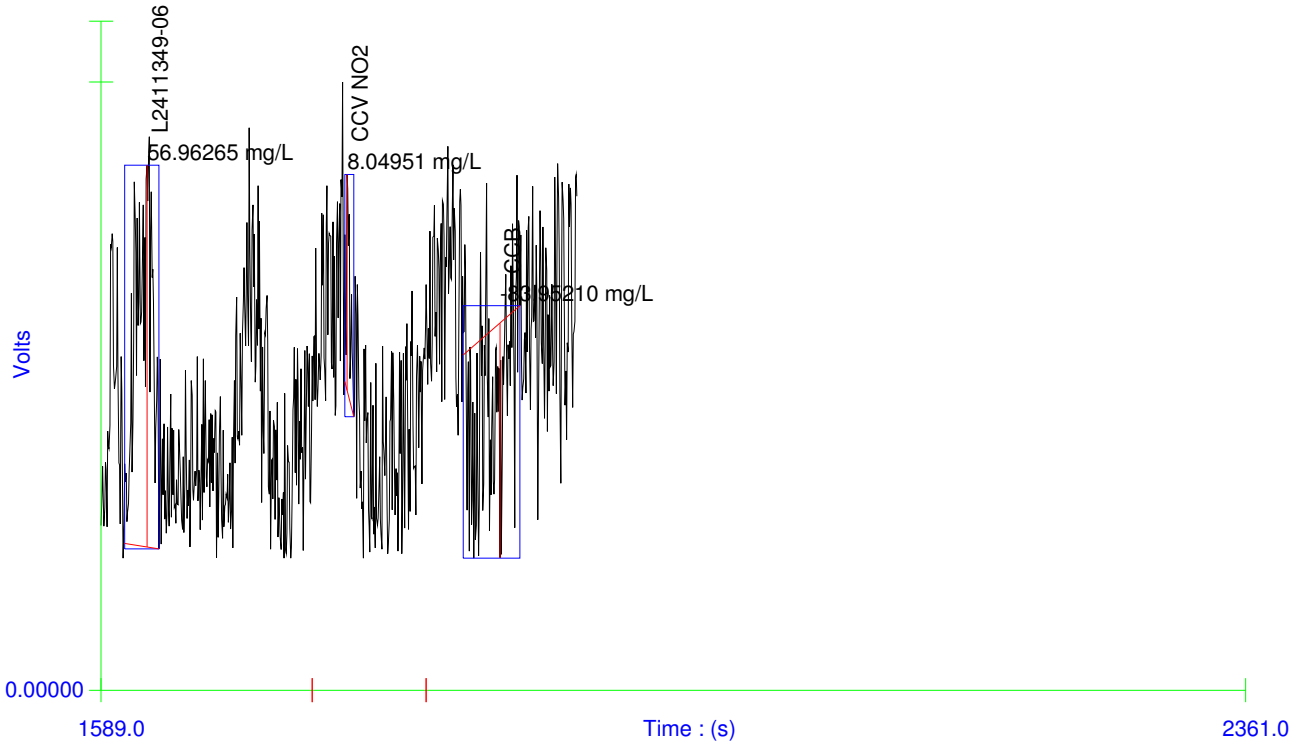
Channel 1 (NO3+NO2) - Set: 1 / 3



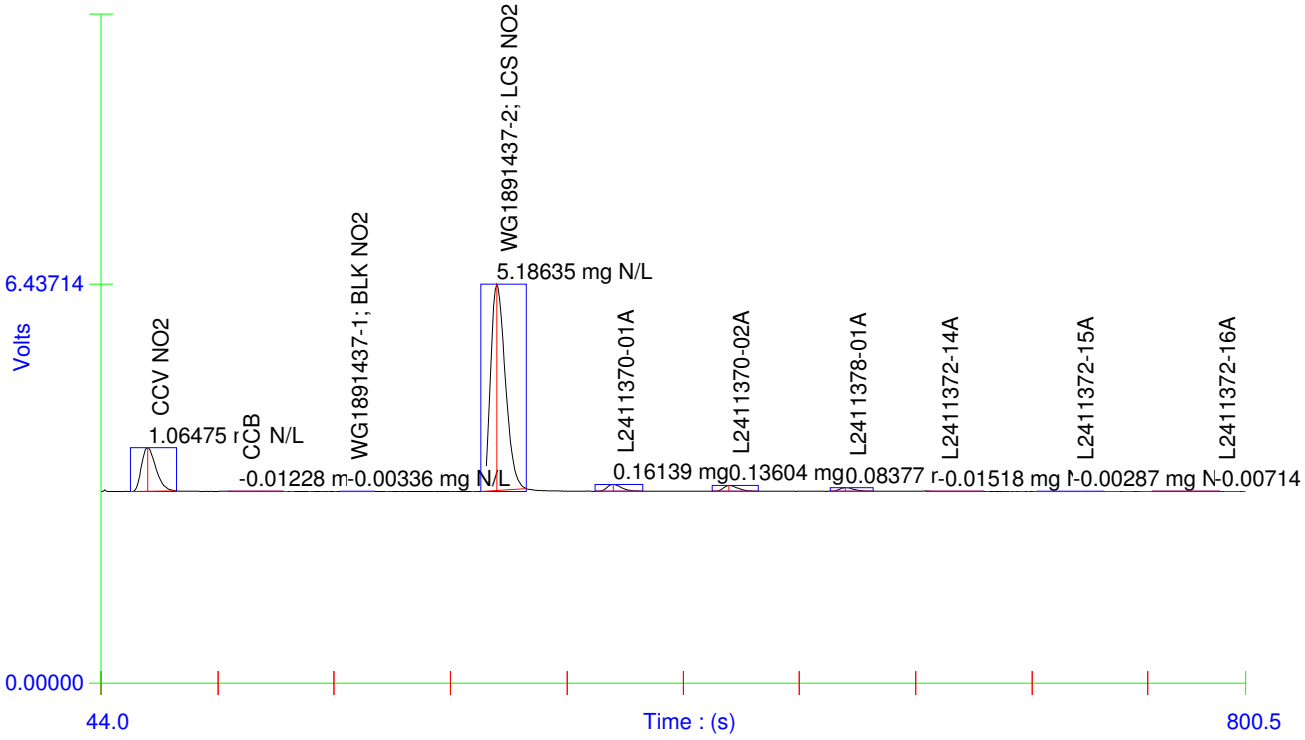
Channel 1 (NO3+NO2) - Set: 2 / 3



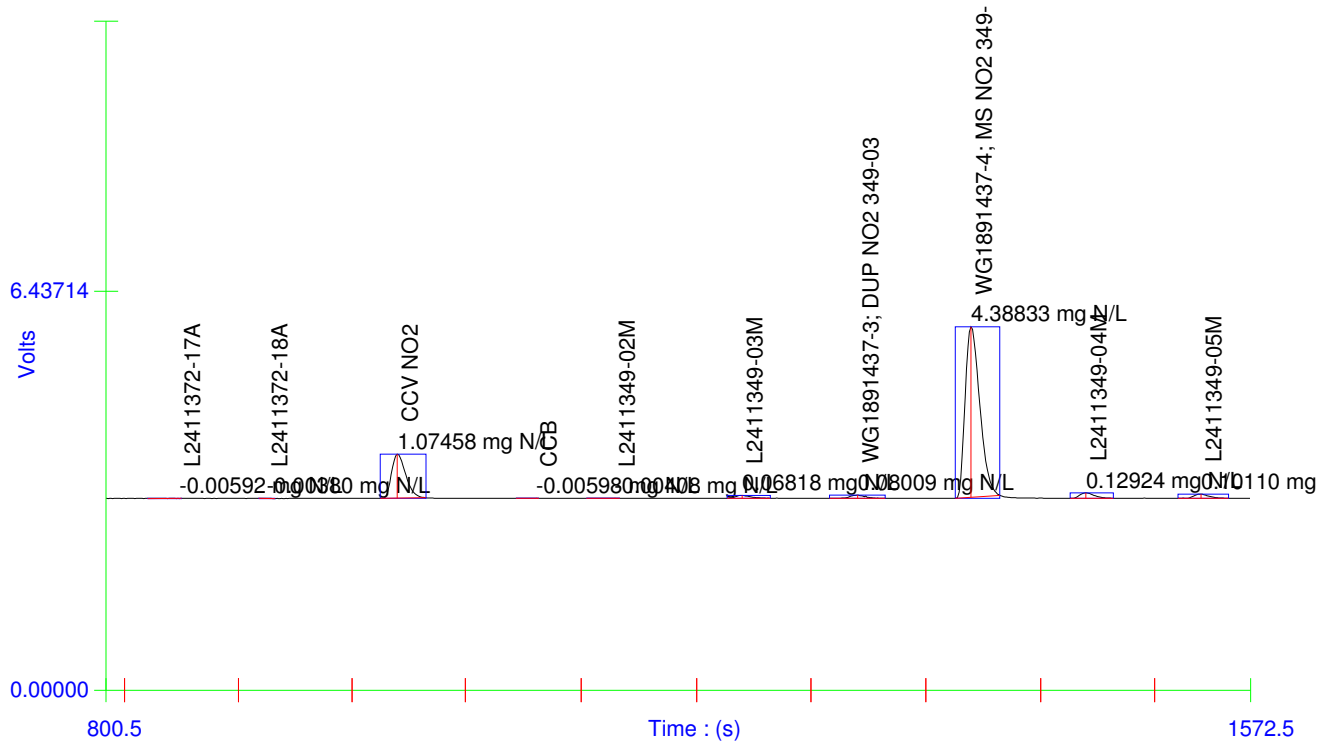
Channel 1 (NO3+NO2) - Set: 3 / 3



Channel 2 (NO2) - Set: 1 / 3



Channel 2 (NO2) - Set: 2 / 3



Channel 2 (NO2) - Set: 3 / 3

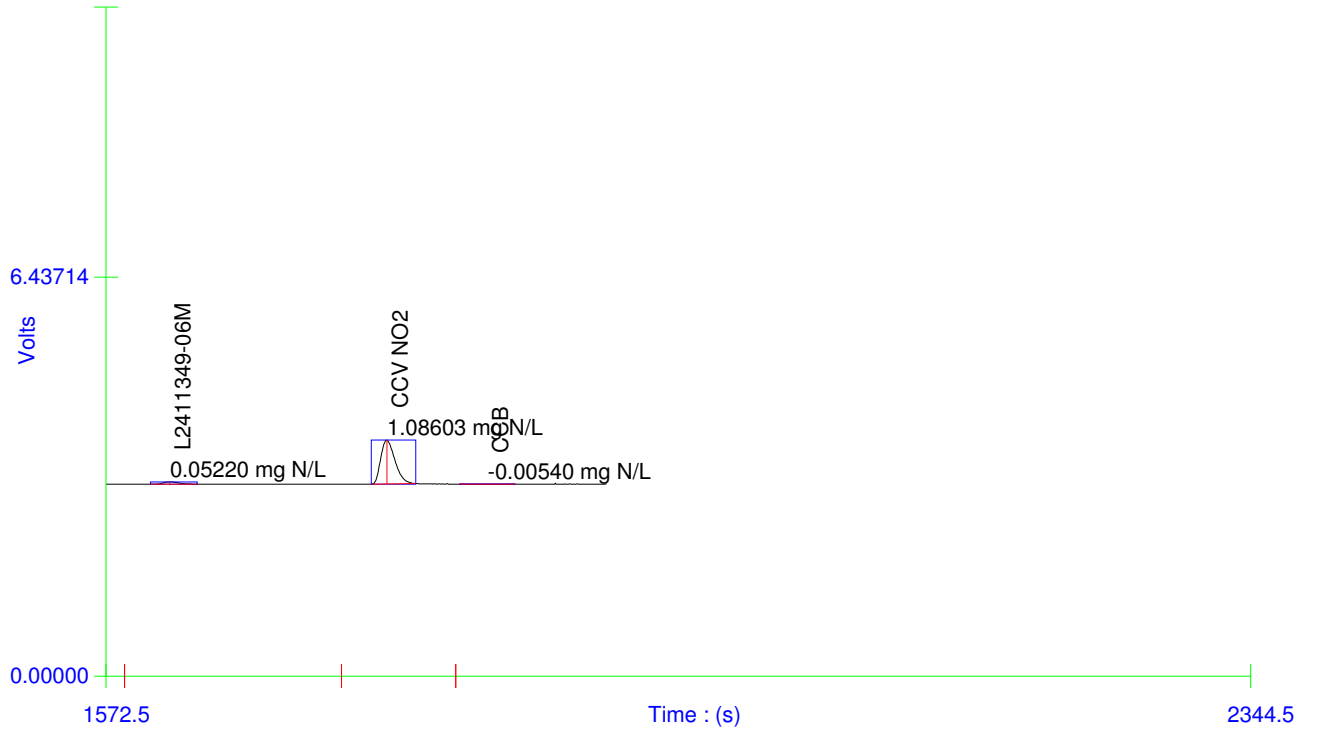
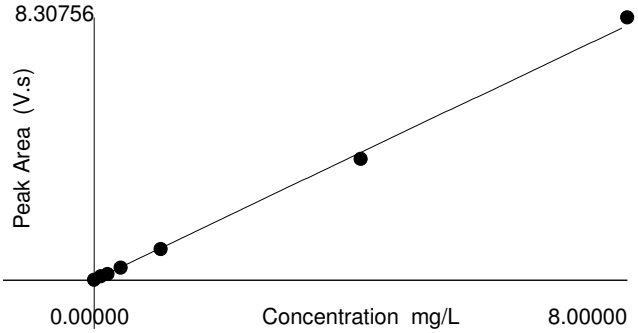


Table : 1 (NO3+NO2)

	Known Conc. (mg/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg/L)	Detection Date	Detection Time
1	8.00000	1	8.30756	0.85216	0.0	-3.1	8.23368	3/2/2024	10:31:28 AM
2	4.00000	1	3.83399	0.39429	0.0	4.9	3.79630	3/2/2024	10:32:46 AM
3	1.00000	1	0.97512	0.10019	0.0	3.8	0.96055	3/2/2024	10:34:03 AM
4	0.40000	1	0.39479	0.03993	0.0	3.6	0.38491	3/2/2024	10:35:21 AM
5	0.20000	1	0.19360	0.01987	0.0	7.1	0.18535	3/2/2024	10:36:40 AM
6	0.10000	1	0.12387	0.01185	0.0	-15.0	0.11618	3/2/2024	10:37:59 AM
7	0.00000	1	0.00778	0.00186			0.00103	3/2/2024	10:39:15 AM

Figure : 1 (NO3+NO2)



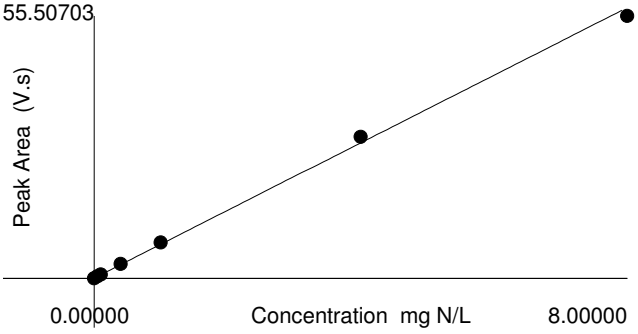
Area = 1.00629 * Conc + 0.00713
Conc = 0.99191 * Area - 0.00669
Correlation Coefficient (r) = 0.99989

Weighting : 1/x

Table : 2 (Nitrite)

	Known Conc. (mg N/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg N/L)	Detection Date	Detection Time
1	8.00000	1	55.50703	4.72441	0.0	3.1	7.73890	3/2/2024	3:23:35 AM
2	4.00000	1	29.91702	2.67749	0.0	-4.4	4.16827	3/2/2024	3:24:52 AM
3	1.00000	1	7.56680	0.67998	0.0	-5.1	1.04970	3/2/2024	3:26:09 AM
4	0.40000	1	3.03139	0.27380	0.0	-4.3	0.41687	3/2/2024	3:27:27 AM
5	0.10000	1	0.80175	0.07061	0.0	-5.4	0.10576	3/2/2024	3:28:45 AM
6	0.05000	1	0.40275	0.03572	0.0	0.0	0.05009	3/2/2024	3:30:04 AM
7	0.00000	1	-0.01380	-0.00176			-0.00803	3/2/2024	3:31:21 AM

Figure : 2 (Nitrite)



Area = 7.15546 * Conc + 0.04504
Conc = 0.13953 * Area - 0.00611
Correlation Coefficient (r) = 0.99995

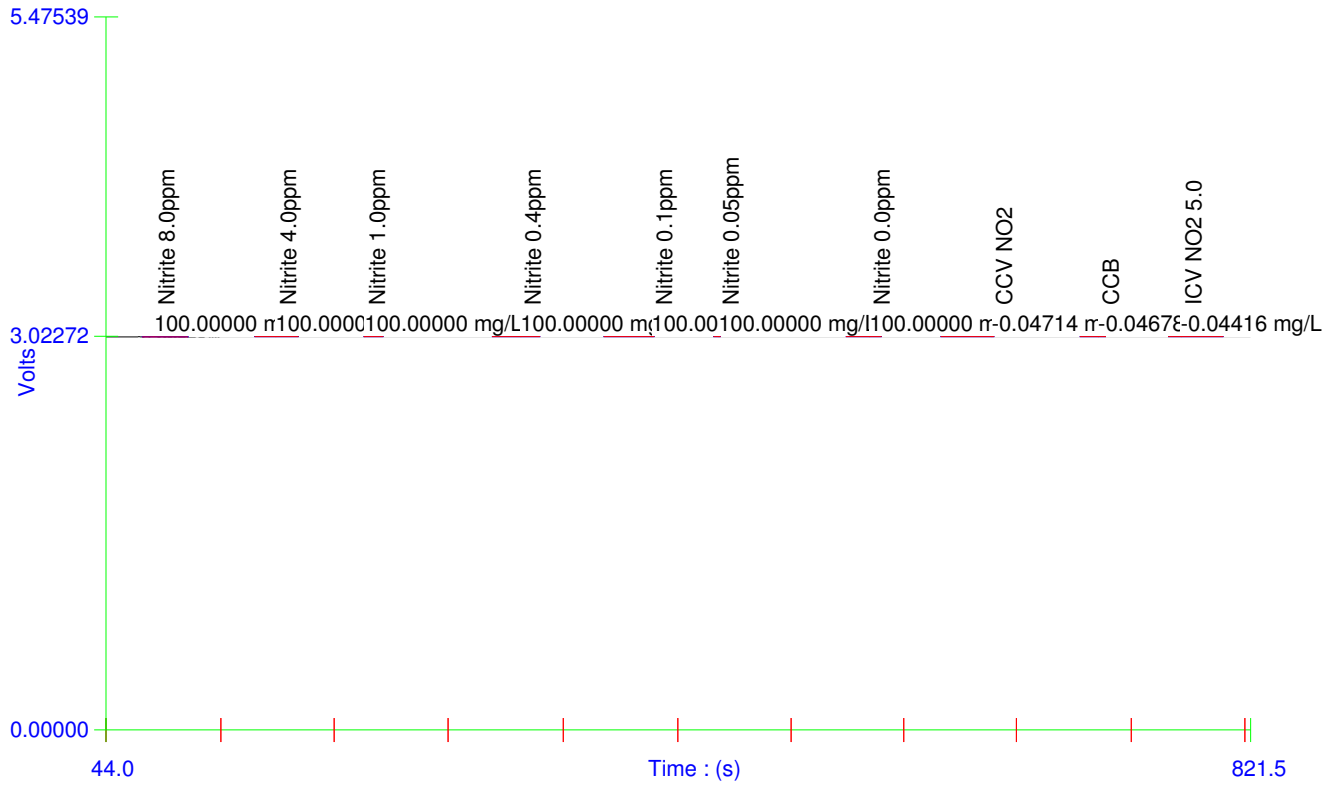
Weighting : 1/x

Original Run Filename: OM_3-5-2024_03-51-13AM.OMN Created: 3/5/2024 3:51:13 AM
Original Run Author's Signature: [A1wetcheminstrument]
Current Run Filename: OM_3-5-2024_03-51-13AM.OMN Last Modified: 3/5/2024 4:42:50 AM
Current Run Author's Signature: [A1wetcheminstrument]
Description: Default New Run

Sample	Rep.	Cup No.	Channel 1 NO3+NO2 (mg/L)	Channel 2 Nitrite (mg N/L)	ADF	MDF	Weight
Nitrite 8.0ppm	1	S10	100.00000	8.00000			
Nitrite 4.0ppm	1	S11	100.00000	4.00000			
Nitrite 1.0ppm	1	S9	100.00000	1.00000			
Nitrite 0.4ppm	1	S12	100.00000	0.40000			
Nitrite 0.1ppm	1	S13	100.00000	0.10000			
Nitrite 0.05ppm	1	S14	100.00000	0.05000			
Nitrite 0.0ppm	1	S1	100.00000	0.00000			
CCV NO2	1	S9	-0.04714	1.06071			
	Known Conc:		0.00000	1.00000			
	Calibration:		Table/Fig. : 1	Table/Fig. : 2			
CCB	1	S1	-0.04678	-0.01150			
	Known Conc:		0.00000	0.00000			
ICV NO2 5.0	1	2	-0.04416	5.06835			
ICV NO2 0.5	1	4	-0.04818	0.51898			
ICB	1	5	-0.04821	-0.01154			
DILUTER CHCK 8PPM	1	6	-0.23796	8.48499	5.00		
BLK NO2	1	9	-0.04801	-0.01027			
LCS NO2	1	10	-0.04530	5.00667			
WG1892106-1; NO2	1	11	-0.04653	-0.00960			
WG1892106-2; NO2	1	12	-0.04326	5.04607			
L2411602-01C	1	21	-0.04674	0.27501			
L2411604-01E	1	22	-0.04671	0.02035			
CCV NO2	1	S9	-0.04792	1.05951			
	Known Conc:		0.00000	1.00000			
CCB	1	S1	-0.04579	-0.01277			
	Known Conc:		0.00000	0.00000			
L2411608-01F	1	23	-0.04564	0.00722			
WG1892107-3; DUP NO3 608-01	1	24	-0.04712	-0.00225			
WG1892107-4; MS NO3 608-01	1	25	-0.04525	0.01124			
WG1892106-3; DUP NO2 608-01	1	26	-0.04562	-0.00272			
WG1892106-4; MS NO2 608-01	1	27	-0.04557	4.35826			
L2411612-07E	1	28	-0.04623	0.00846			
L2411612-08B	1	29	-0.04703	0.01259			
L2411612-09G	1	30	-0.04565	0.00916			
L2411596-01D	1	31	-0.04758	0.00475			
WG1892108-3; DUP NO3 596-01	1	32	-0.04443	0.00728			
CCV NO2	1	S9	-0.04753	1.05702			
	Known Conc:		0.00000	1.00000			
CCB	1	S1	-0.04325	-0.00549			
	Known Conc:		0.00000	0.00000			
WG1892108-4; MS NO3 596-01	1	33	-0.04598	-0.01109			
L2411596-02D	1	34	-0.04513	0.00578			
CCV NO2	1	S9	-0.04942	1.05276			
	Known Conc:		0.00000	1.00000			
CCB	1	S1	-0.04684	-0.01124			
	Known Conc:		0.00000	0.00000			

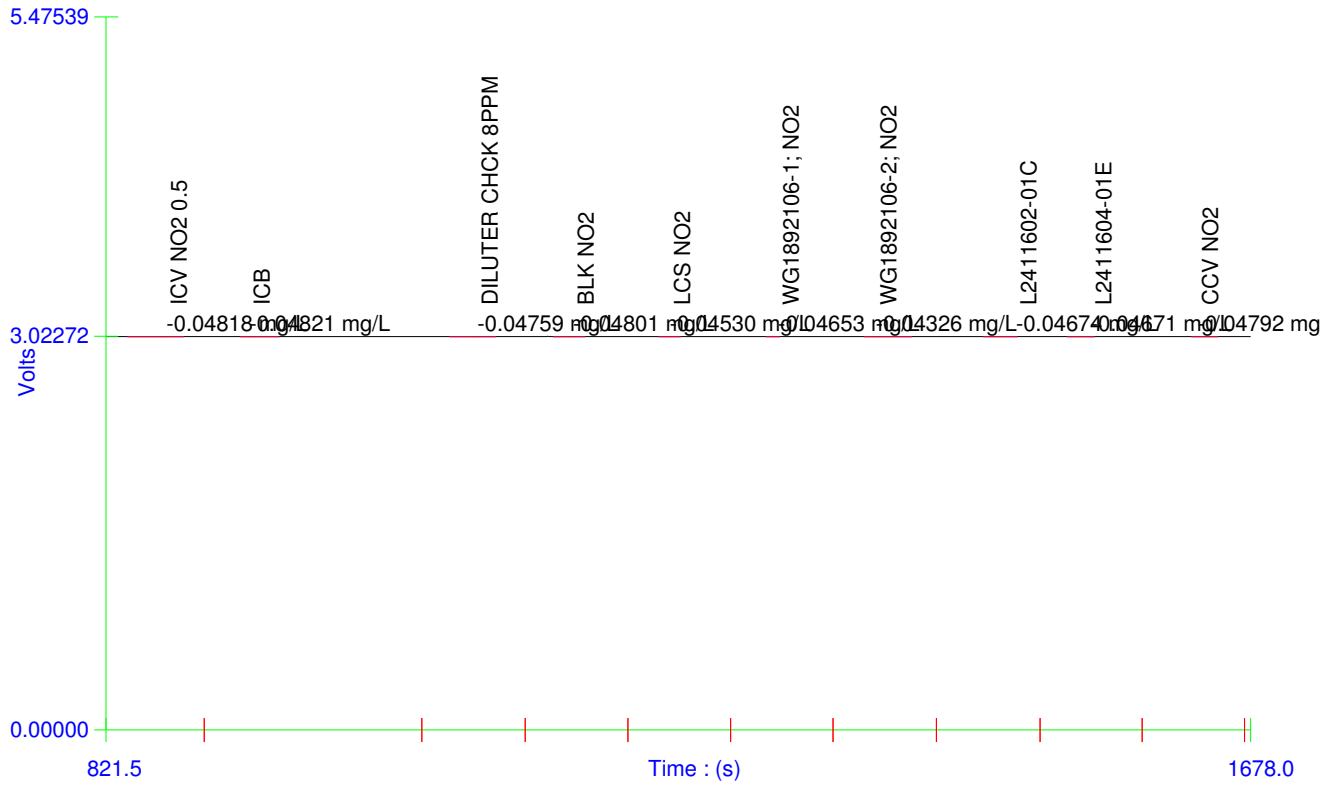
Author: KAF TRAY 1 Date : 240305-1

Channel 1 (NO3+NO2) - Set: 1 / 4



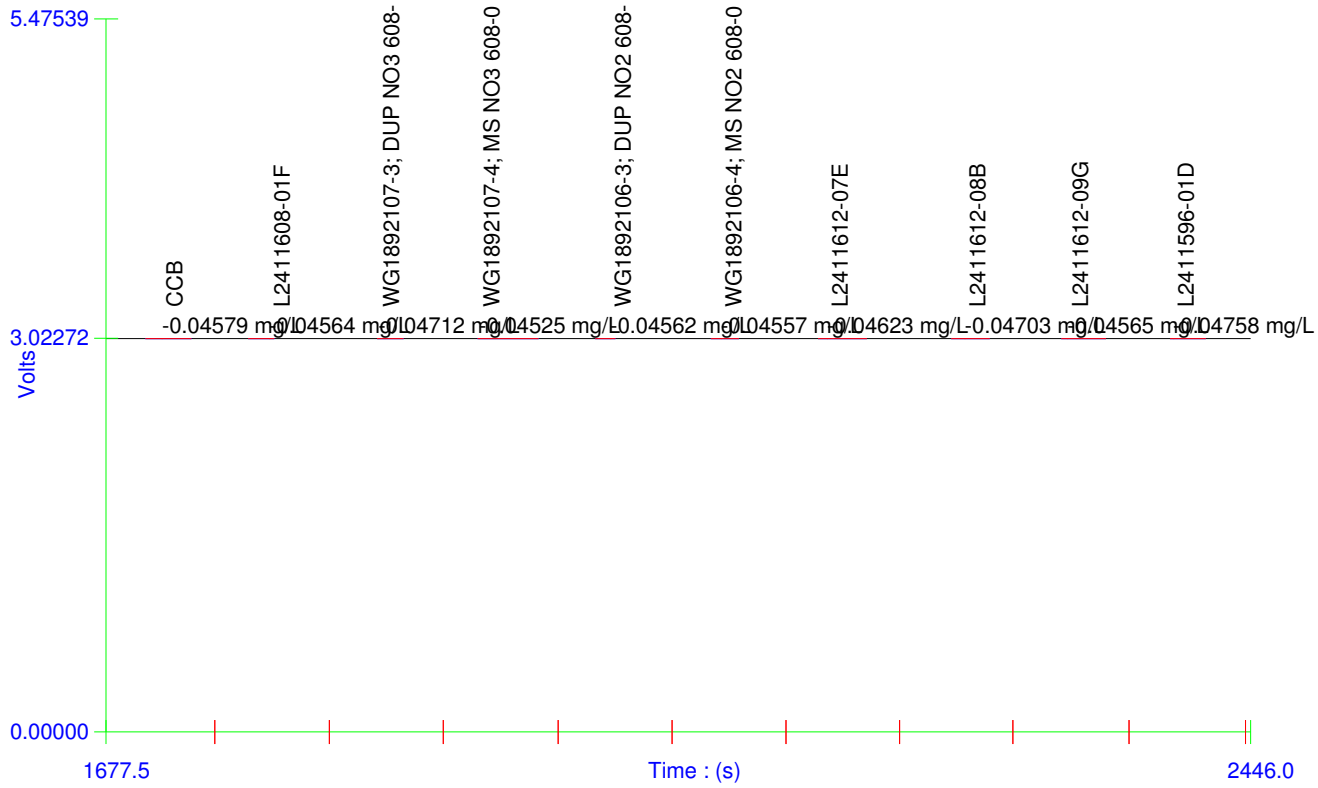
Author: KAF TRAY 1 Date : 240305-1

Channel 1 (NO3+NO2) - Set: 2 / 4



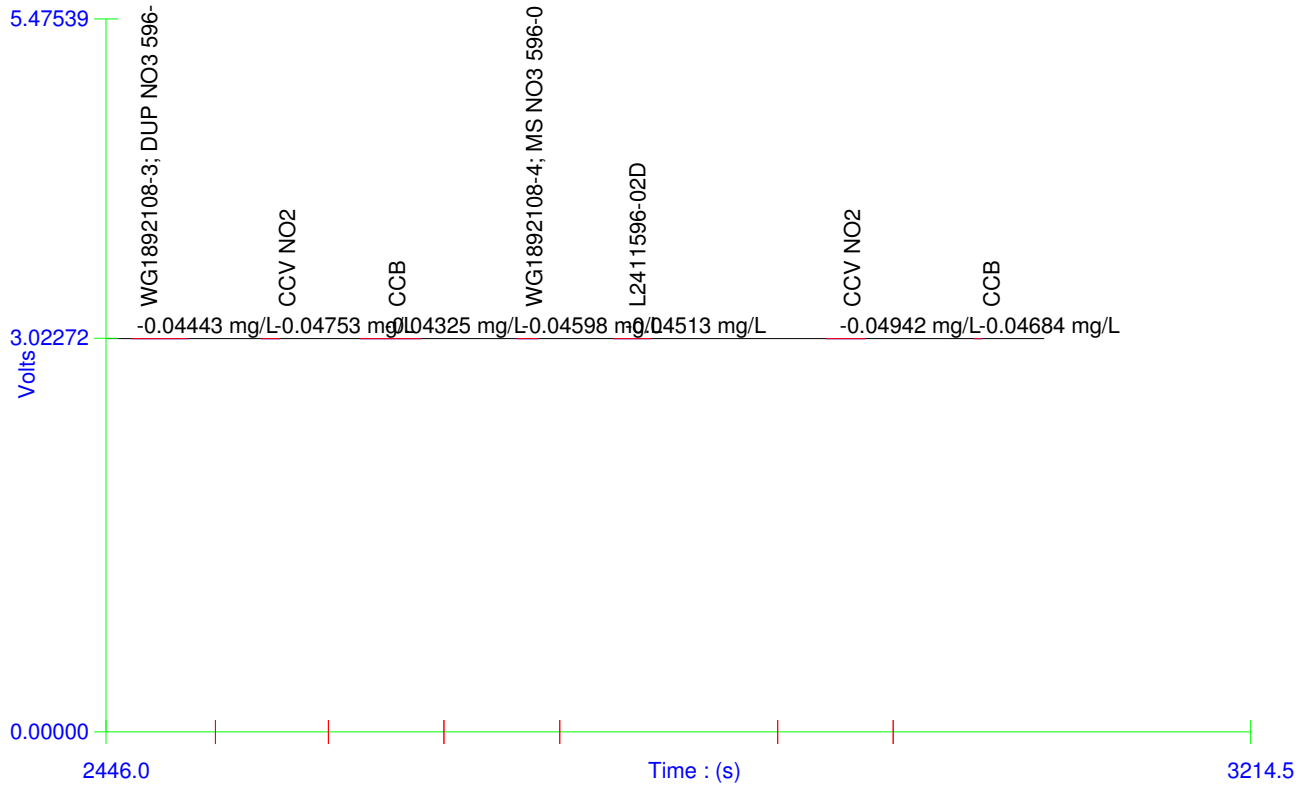
Author: KAF TRAY 1 Date : 240305-1

Channel 1 (NO3+NO2) - Set: 3 / 4



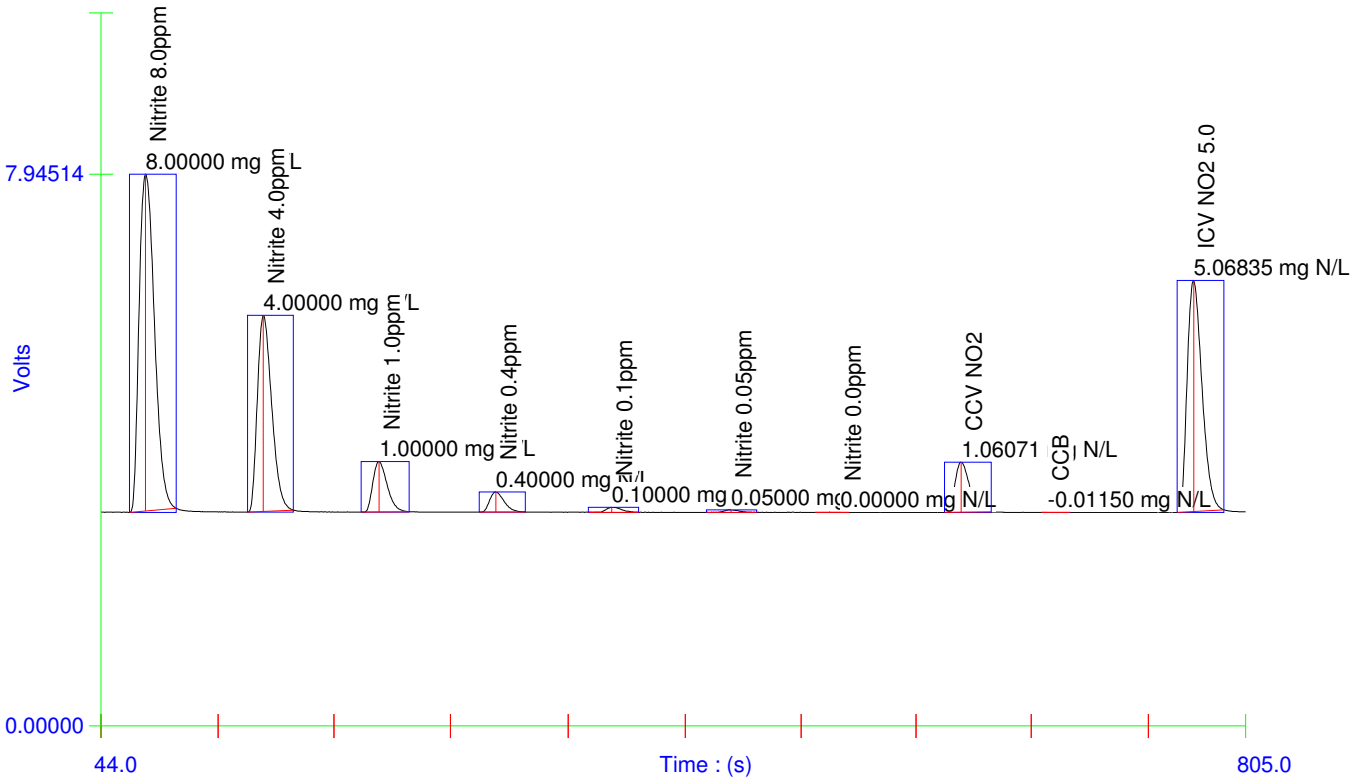
Author: KAF TRAY 1 Date : 240305-1

Channel 1 (NO3+NO2) - Set: 4 / 4



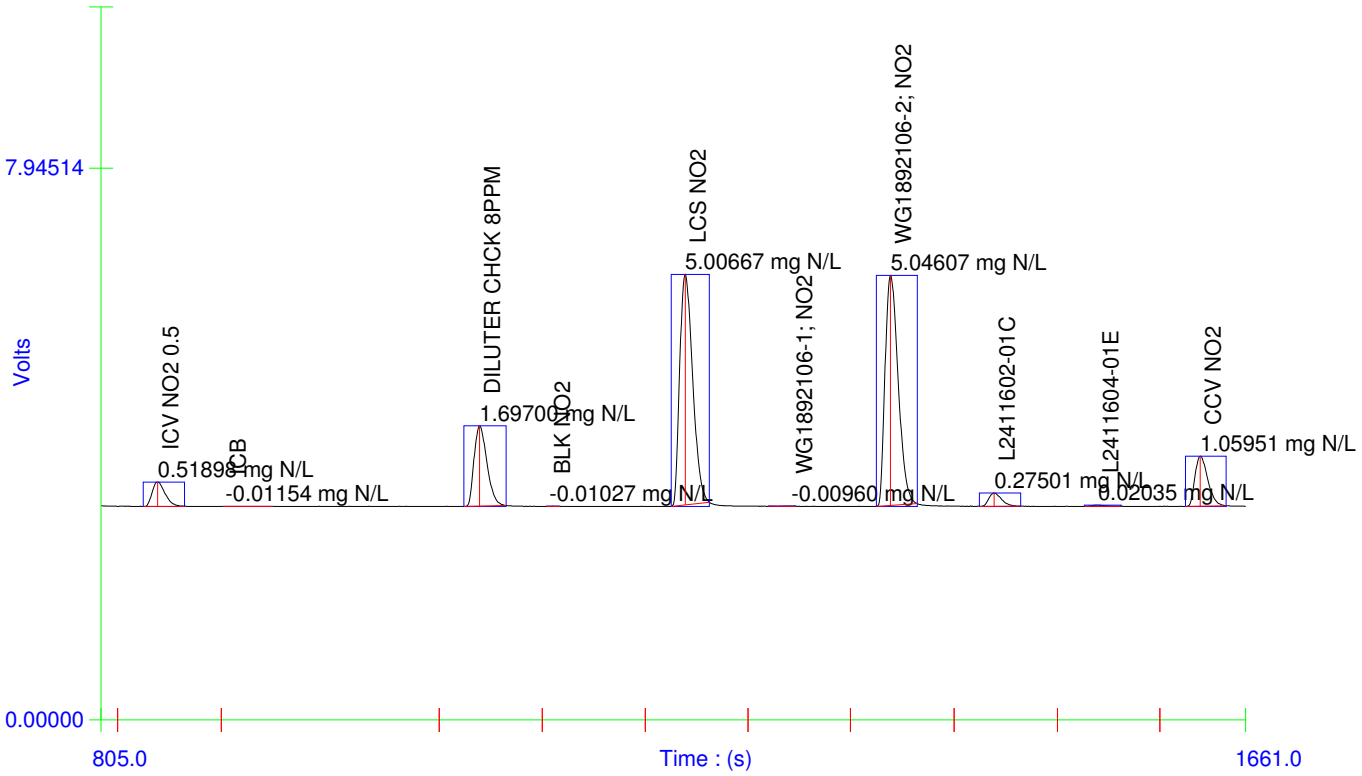
Author: KAF TRAY 1 Date : 240305-1

Channel 2 (NO2) - Set: 1 / 4



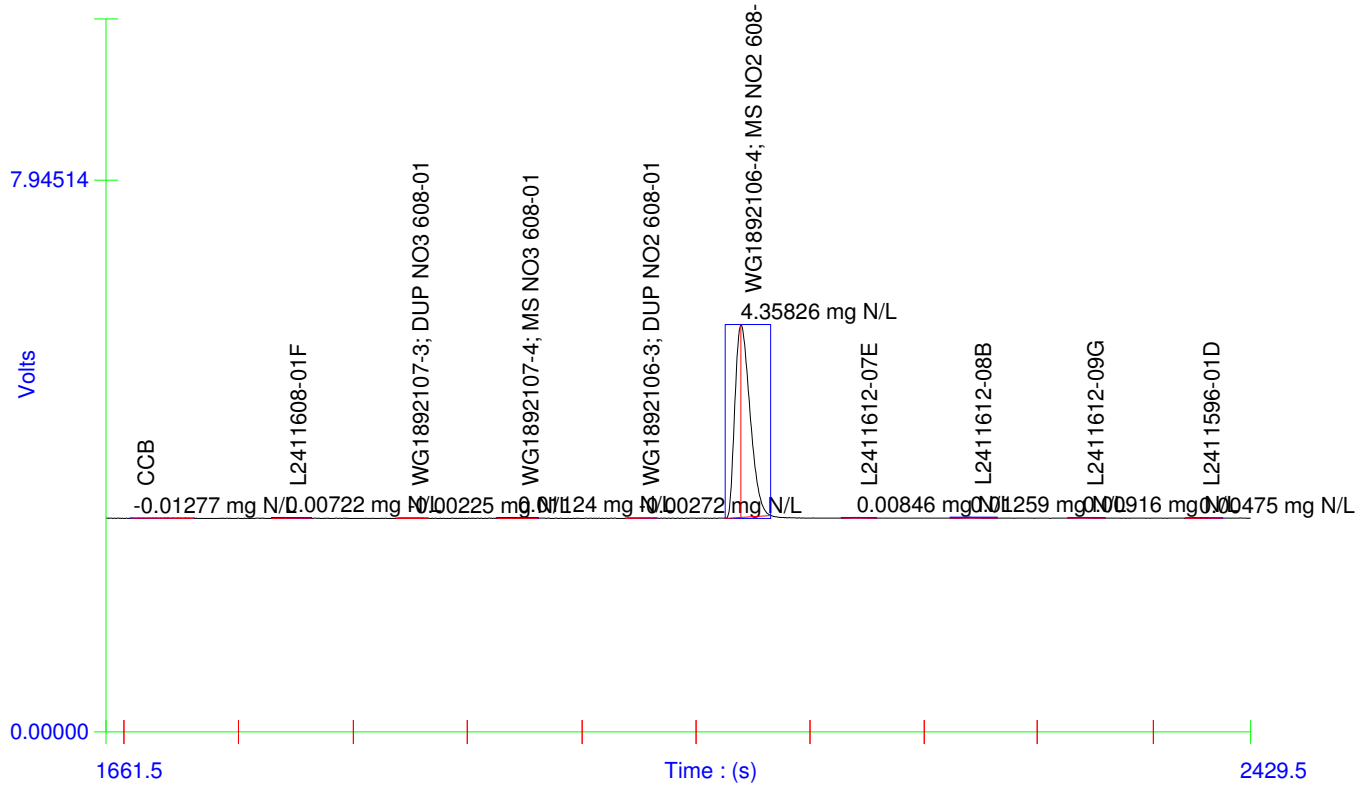
Author: KAF TRAY 1 Date : 240305-1

Channel 2 (NO2) - Set: 2 / 4



Author: KAF TRAY 1 Date : 240305-1

Channel 2 (NO2) - Set: 3 / 4



Channel 2 (NO2) - Set: 4 / 4

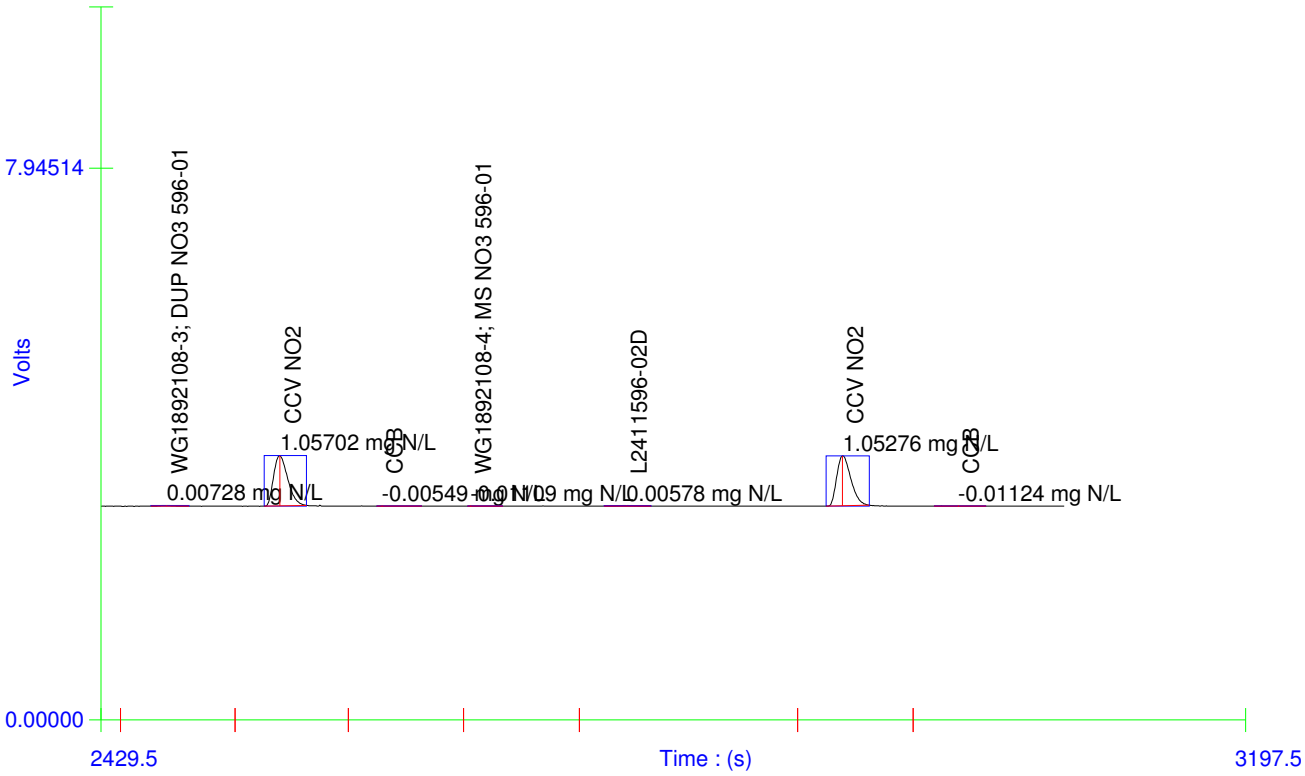


Table : 1 (NO3+NO2)

	Known Conc. (mg/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg/L)	Detection Date	Detection Time
1	8.00000	1	17.02919	1.59711	0.0	1.7	7.85738	3/1/2024	3:18:19 AM
2	4.00000	1	9.00298	0.86302	0.0	-3.3	4.13211	3/1/2024	3:19:37 AM
3	1.00000	1	2.28738	0.21906	0.0	-1.4	1.01514	3/1/2024	3:20:55 AM
4	0.40000	1	0.93588	0.08929	0.0	2.8	0.38786	3/1/2024	3:22:12 AM

Figure : 1 (NO3+NO2)

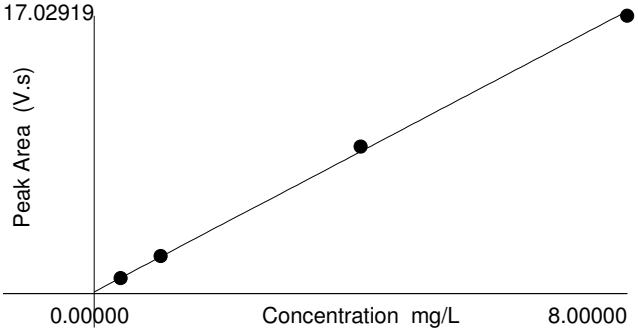
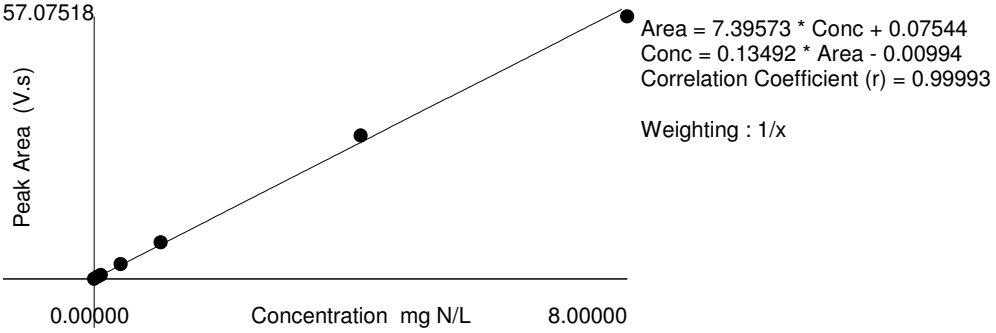


Table : 2 (Nitrite)

	Known Conc. (mg N/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg N/L)	Detection Date	Detection Time
1	8.00000	1	57.07518	4.84943	0.0	3.7	7.69075	3/5/2024	3:52:12 AM
2	4.00000	1	31.15425	2.82375	0.0	-5.0	4.19345	3/5/2024	3:53:30 AM
3	1.00000	1	7.93628	0.72550	0.0	-6.2	1.06084	3/5/2024	3:54:47 AM
4	0.40000	1	3.22735	0.28908	0.0	-6.4	0.42550	3/5/2024	3:56:05 AM
5	0.10000	1	0.84804	0.07326	0.0	-4.1	0.10448	3/5/2024	3:57:23 AM
6	0.05000	1	0.42364	0.03666	0.0	4.8	0.04722	3/5/2024	3:58:42 AM
7	0.00000	1	0.02790	0.00273			-0.00617	3/5/2024	3:59:58 AM

Figure : 2 (Nitrite)

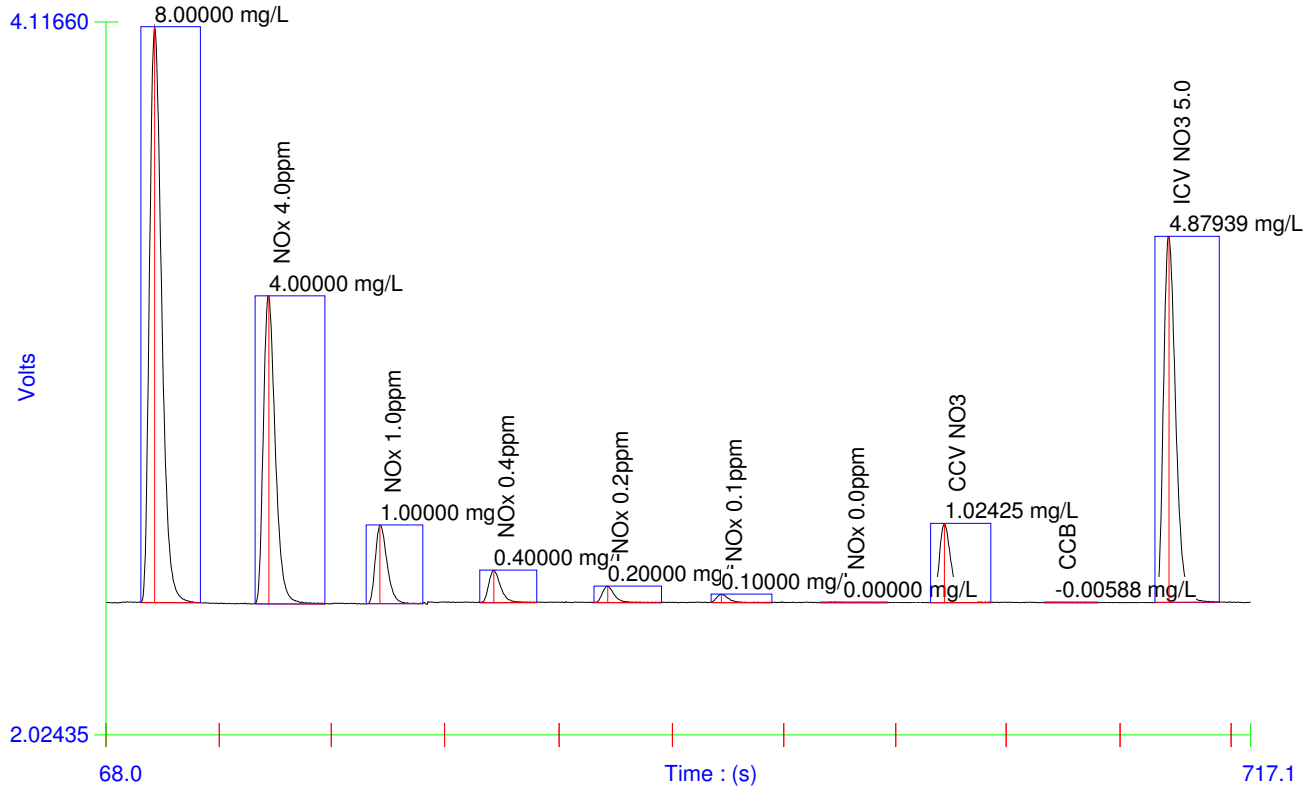


Original Run Filename: OM_3-5-2024_07-31-17AM.OMN Created: 3/5/2024 7:31:17 AM
Original Run Author's Signature: [A1wetcheminstrument]
Current Run Filename: OM_3-5-2024_07-31-17AM.OMN Last Modified: 3/5/2024 8:17:37 AM
Current Run Author's Signature: [A1wetcheminstrument]
Description: Default New Run

Sample	Rep.	Cup No.	Channel 1 NO3+NO2 (mg/L)	Channel 2 Nitrite (mg N/L)	ADF	MDF	Weight
NOx 8.0ppm	1	S3	8.00000	100.00000			
NOx 4.0ppm	1	S4	4.00000	100.00000			
NOx 1.0ppm	1	S2	1.00000	100.00000			
NOx 0.4ppm	1	S5	0.40000	100.00000			
NOx 0.2ppm	1	S6	0.20000	100.00000			
NOx 0.1ppm	1	S7	0.10000	100.00000			
NOx 0.0ppm	1	S1	0.00000	100.00000			
CCV NO3	1	S2	1.02425	-0.01231			
	Known Conc:		1.00000	0.00000			
	Calibration:		Table/Fig. : 1	Table/Fig. : 2			
CCB	1	S1	-0.00588	-0.01229			
	Known Conc:		0.00000	0.00000			
ICV NO3 5.0	1	1	4.87939	-0.01147			
ICV NO3 0.5	1	3	0.49255	-0.01320			
ICB	1	5	0.01925	-0.01253			
DILUTER CHK 8PPM	1	6	8.13476	-0.09764	5.00		
BLK NO3	1	7	-0.01305	-0.01483			
LCS NO3	1	8	4.79001	-0.01268			
WG1892107-1; NO3	1	13	0.07878	-0.01047			
WG1892107-2; NO3	1	14	4.81297	-0.02394			
WG1892108-1; NO3	1	15	-0.00987	-0.01325			
WG1892108-2; NO3	1	16	4.68344	-0.00837			
CCV NO3	1	S2	1.00879	-0.01303			
	Known Conc:		1.00000	0.00000			
CCB	1	S1	-0.03181	-0.01832			
	Known Conc:		0.00000	0.00000			
WG1892109-1; NO3	1	17	-0.01842	-0.01195			
WG1892109-2; NO3	1	18	4.60913	-0.01202			
WG1892110/111-1; CNO3	1	19	-0.10596	0.00402			
WG1892110/111-2; CNO3	1	20	4.54215	-0.01277			
L2411602-01C	1	21	39.13134	-0.01283			
L2411604-01E	1	22	1.01325	-0.01176			
WG1892110/111-1; CNO3	1	19	0.14676	-0.00786			
L2411602-01C	1	21	318.38589	-0.57072	50.00		
L2411604-01E	1	22	0.77624	-0.00985			
WG1892110/111-1; CNO3	1	19	-0.00066	-0.01278			
CCV NO3	1	S2	0.86477	-0.00564			
	Known Conc:		1.00000	0.00000			

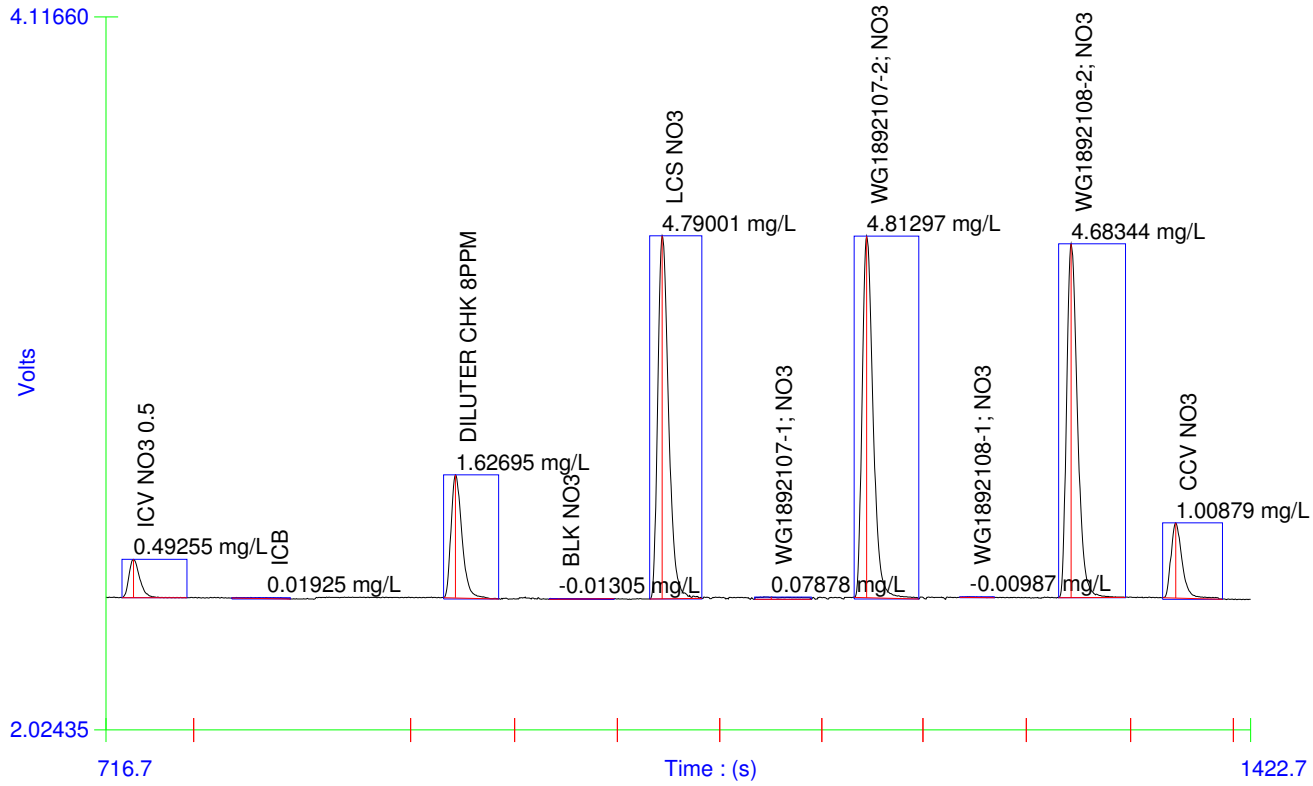
Author: KAF TRAY 2A Date : 240305-2

Channel 1 (NO3+NO2) - Set: 1 / 4



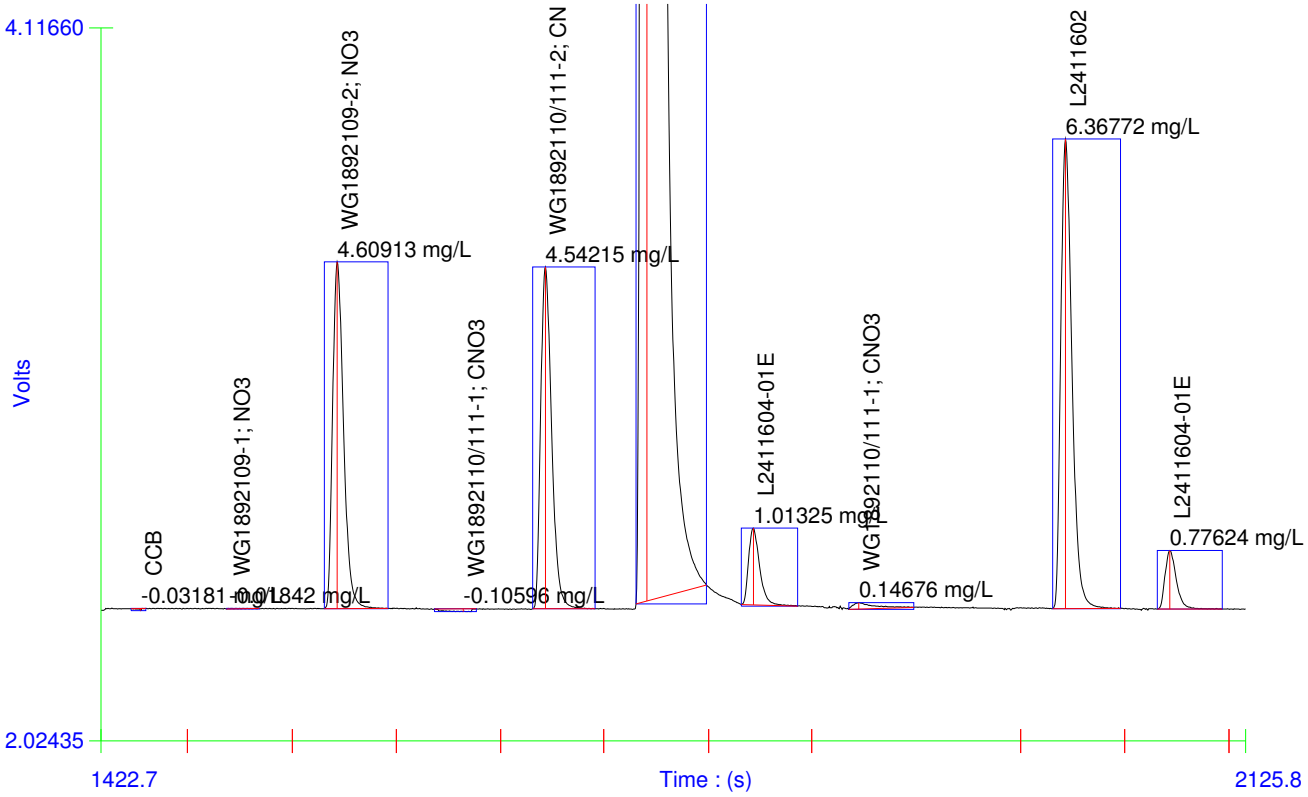
Author: KAF TRAY 2A Date : 240305-2

Channel 1 (NO3+NO2) - Set: 2 / 4



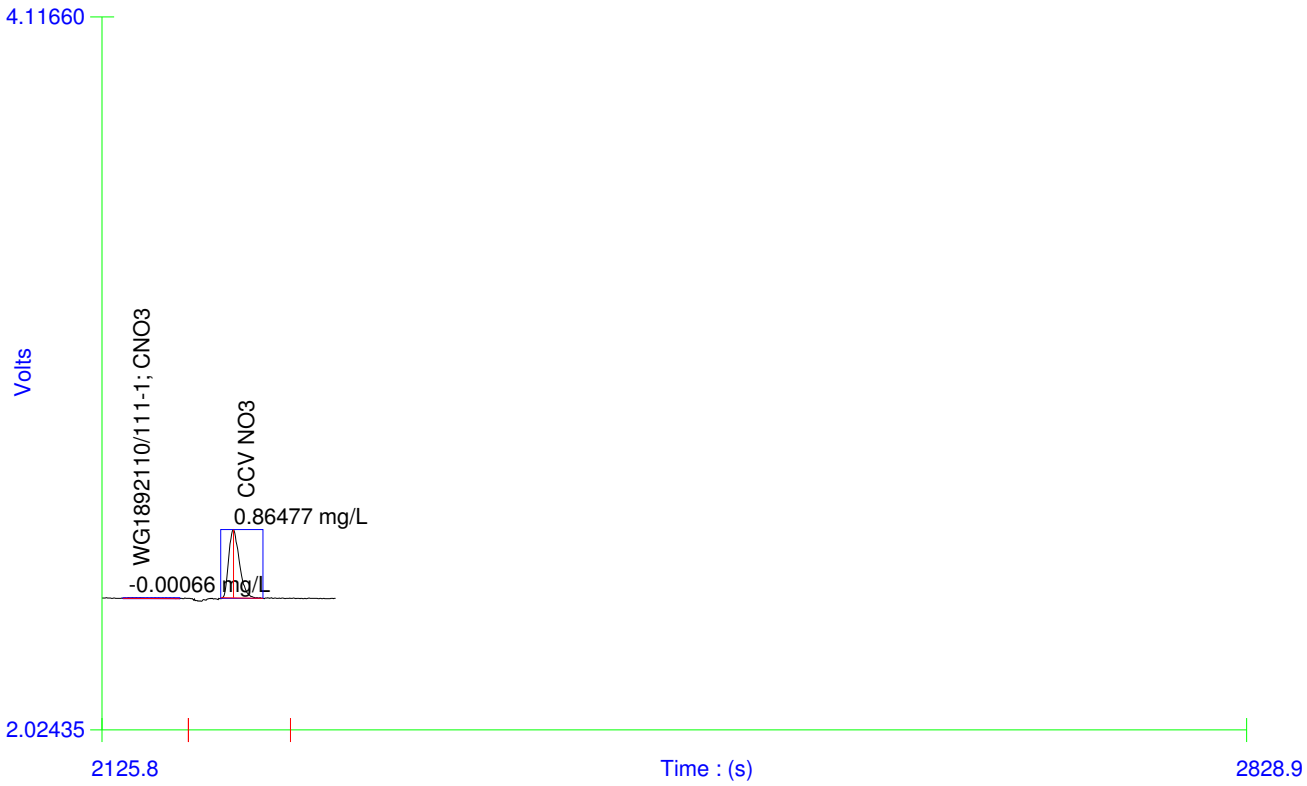
Author: KAF TRAY 2A Date : 240305-2

Channel 1 (NO3+NO2) - Set: 3 / 4



Author: KAF TRAY 2A Date : 240305-2

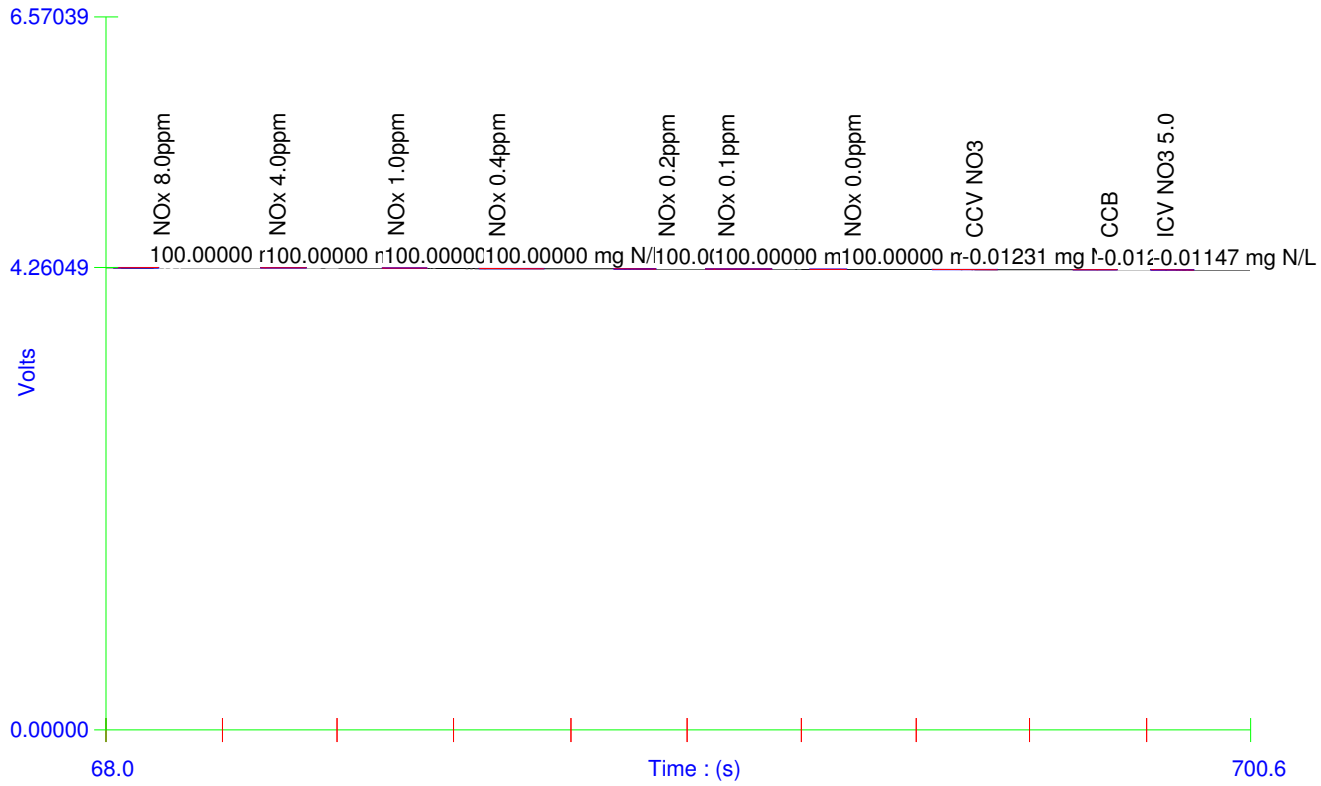
Channel 1 (NO3+NO2) - Set: 4 / 4



- 5 -

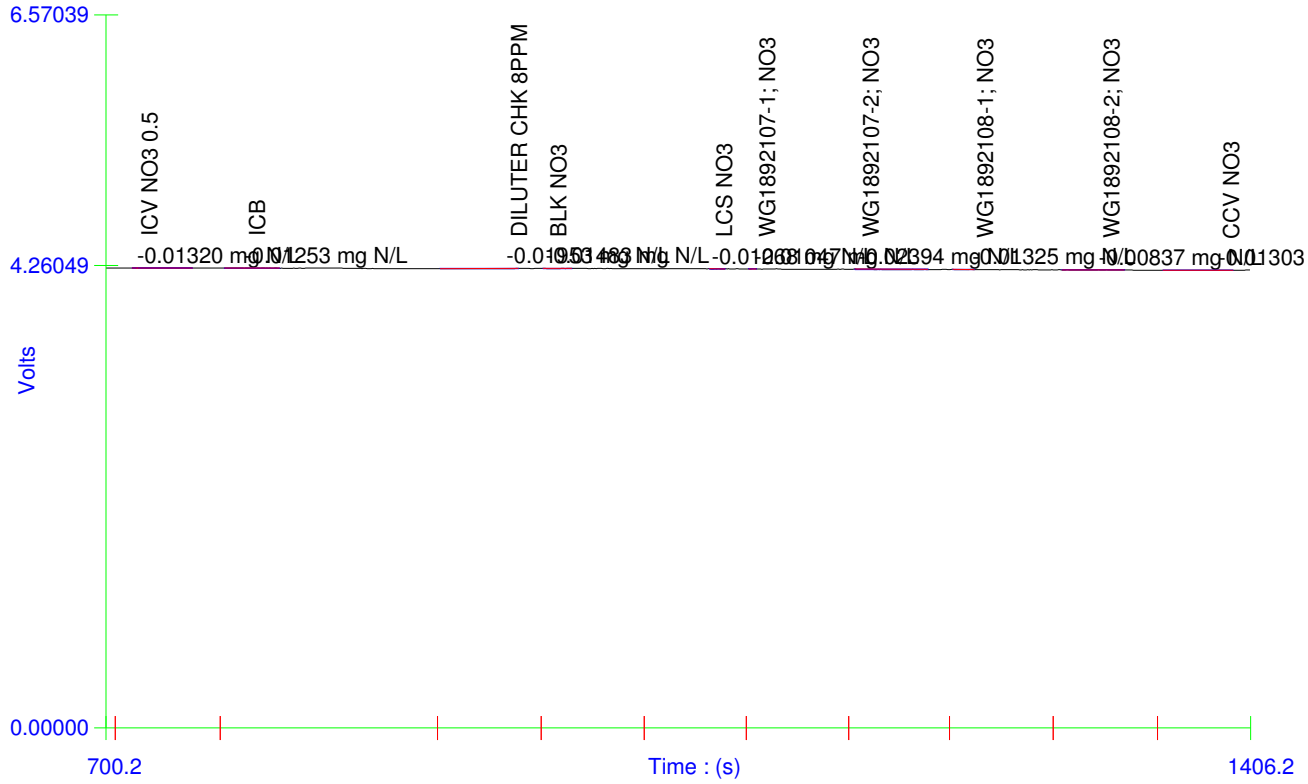
Author: KAF TRAY 2A Date : 240305-2

Channel 2 (NO2) - Set: 1 / 4



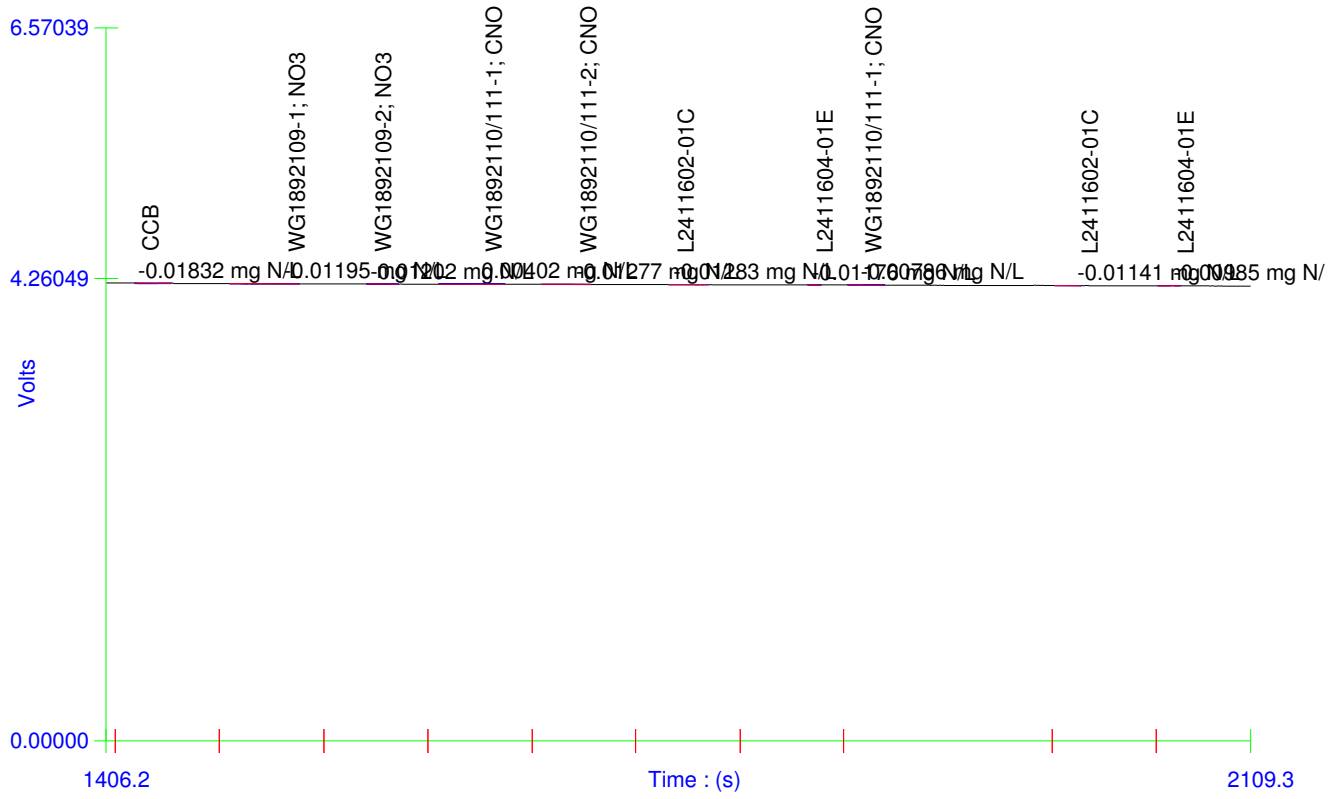
Author: KAF TRAY 2A Date : 240305-2

Channel 2 (NO2) - Set: 2 / 4



Author: KAF TRAY 2A Date : 240305-2

Channel 2 (NO2) - Set: 3 / 4



Channel 2 (NO2) - Set: 4 / 4

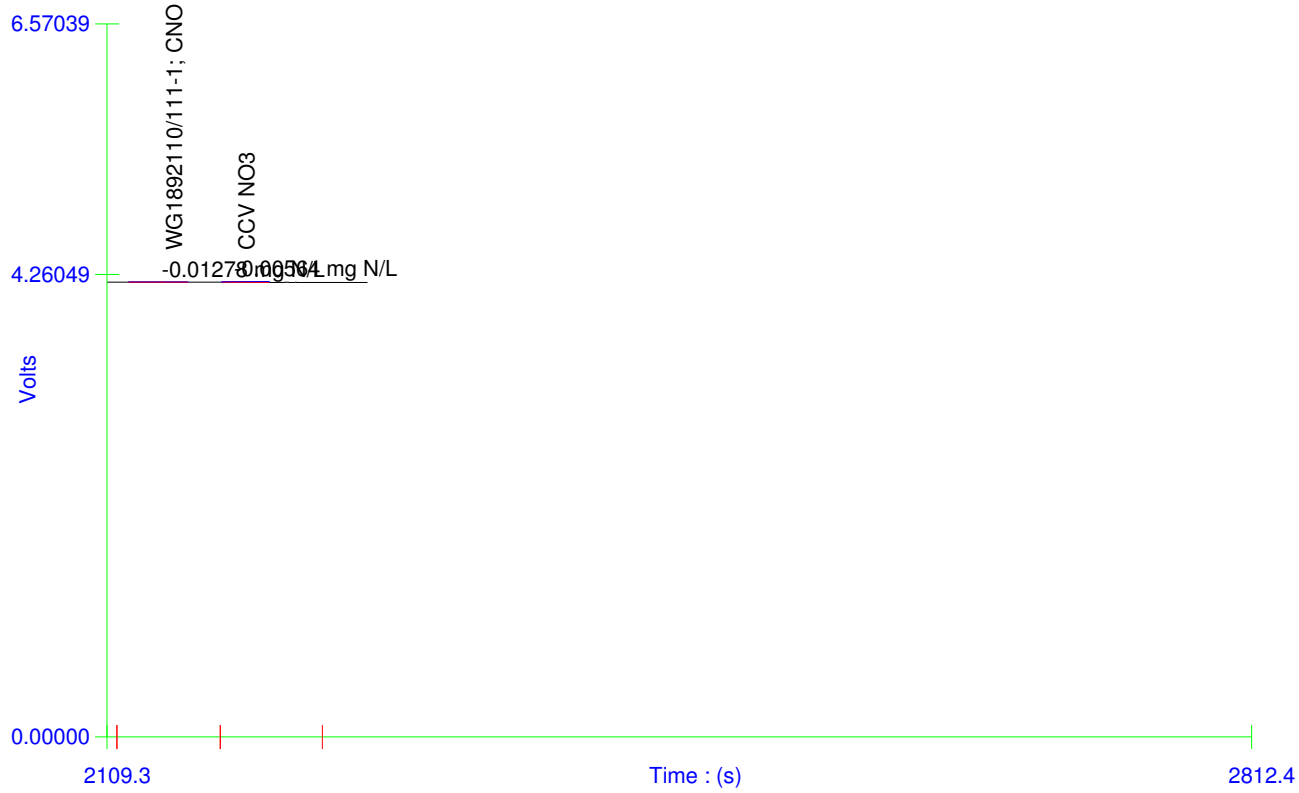


Table : 1 (NO3+NO2)

	Known Conc. (mg/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg/L)	Detection Date	Detection Time
1	8.00000	1	13.39815	1.68904	0.0	2.0	7.83600	3/5/2024	7:32:53 AM
2	4.00000	1	7.07156	0.90380	0.0	-3.2	4.12590	3/5/2024	7:34:11 AM
3	1.00000	1	1.77621	0.23128	0.0	-2.1	1.02056	3/5/2024	7:35:29 AM
4	0.40000	1	0.73602	0.09486	0.0	-2.5	0.41056	3/5/2024	7:36:47 AM
5	0.20000	1	0.38212	0.04791	0.0	-1.4	0.20302	3/5/2024	7:38:05 AM
6	0.10000	1	0.19898	0.02445	0.0	3.7	0.09562	3/5/2024	7:39:24 AM
7	0.00000	1	0.03094	0.00200			-0.00292	3/5/2024	7:40:40 AM

Figure : 1 (NO3+NO2)

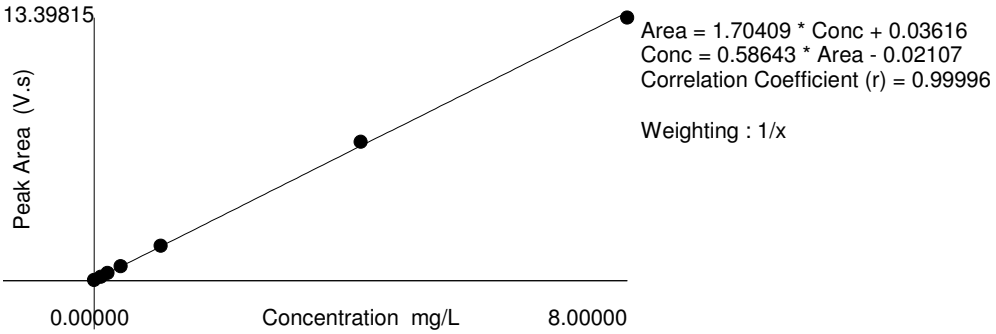
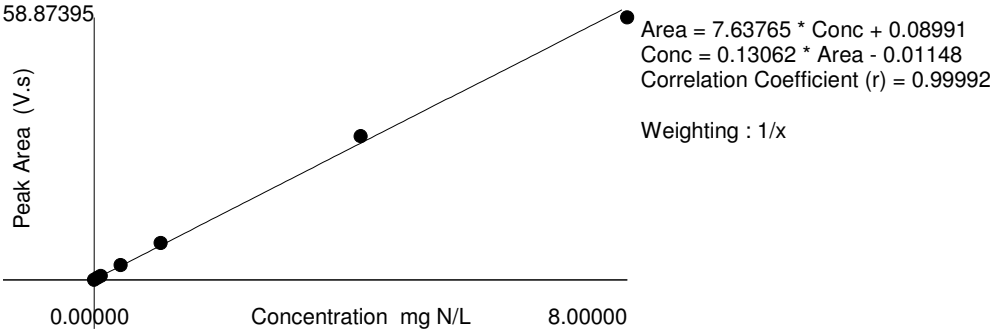


Table : 2 (Nitrite)

	Known Conc. (mg N/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg N/L)	Detection Date	Detection Time
1	8.00000	1	58.87395	4.97182	0.0	3.8	7.67871	3/1/2024	3:35:10 AM
2	4.00000	1	32.20557	2.92996	0.0	-5.1	4.19525	3/1/2024	3:36:27 AM
3	1.00000	1	8.23526	0.75850	0.0	-6.6	1.06422	3/1/2024	3:37:44 AM
4	0.40000	1	3.34609	0.30627	0.0	-6.4	0.42559	3/1/2024	3:39:02 AM
5	0.10000	1	0.90127	0.07887	0.0	-5.6	0.10624	3/1/2024	3:40:20 AM
6	0.05000	1	0.46750	0.04041	0.0	0.9	0.04958	3/1/2024	3:41:39 AM
7	0.00000	1	0.01481	0.00305			-0.00955	3/1/2024	3:42:55 AM

Figure : 2 (Nitrite)

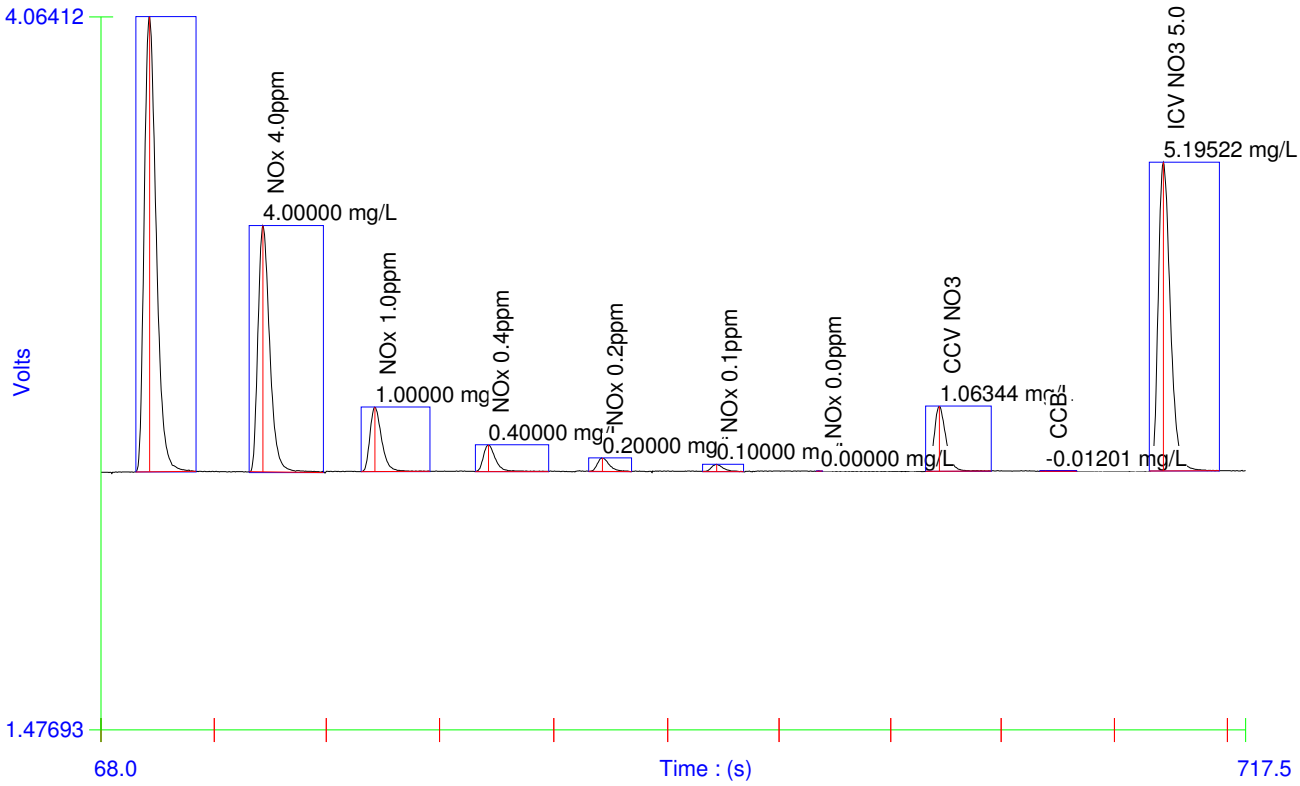


Original Run Filename: OM_3-5-2024_08-23-28AM.OMN Created: 3/5/2024 8:23:28 AM
Original Run Author's Signature: [A1wetcheminstrument]
Current Run Filename: OM_3-5-2024_08-23-28AM.OMN Last Modified: 3/5/2024 9:13:50 AM
Current Run Author's Signature: [A1wetcheminstrument]
Description: Default New Run

Sample	Rep.	Cup No.	Channel 1 NO3+NO2 (mg/L)	Channel 2 Nitrite (mg N/L)	ADF	MDF	Weight
NOx 8.0ppm	1	S3	8.00000	100.00000			
NOx 4.0ppm	1	S4	4.00000	100.00000			
NOx 1.0ppm	1	S2	1.00000	100.00000			
NOx 0.4ppm	1	S5	0.40000	100.00000			
NOx 0.2ppm	1	S6	0.20000	100.00000			
NOx 0.1ppm	1	S7	0.10000	100.00000			
NOx 0.0ppm	1	S1	0.00000	100.00000			
CCV NO3	1	S2	1.06344	-0.01055			
	Known Conc:		1.00000	0.00000			
	Calibration:		Table/Fig. : 1	Table/Fig. : 2			
CCB	1	S1	-0.01201	-0.01143			
	Known Conc:		0.00000	0.00000			
ICV NO3 5.0	1	1	5.19522	-0.01253			
ICV NO3 0.5	1	3	0.52187	-0.01244			
ICB	1	5	-0.00596	-0.01146			
DILUTER CHK 8PPM	1	6	8.48236	-0.06155	5.00		
WG1892109-1; NO3	1	17	-0.05073	-0.01639			
WG1892109-2; NO3	1	18	5.18325	-0.00958			
WG1892110/111-1; CNO3	1	19	-0.03836	-0.00823			
WG1892110/111-2; CNO3	1	20	5.11057	-0.01214			
L2411602-01C	1	21	369.50748	-0.41254	50.00		
L2411604-01E	1	22	0.87793	-0.01320			
CCV NO3	1	S2	1.08715	-0.01734			
	Known Conc:		1.00000	0.00000			
CCB	1	S1	-0.01640	-0.01080			
	Known Conc:		0.00000	0.00000			
L2411608-01F	1	23	3.44787	-0.00798			
WG1892107-3; DUP NO3 608-01	1	24	3.37520	-0.01077			
WG1892107-4; MS NO3 608-01	1	25	7.16921	-0.01025			
L2411612-07	1	28	3.44149	-0.01098			
L2411612-08	1	29	0.31600	-0.01231			
L2411612-09	1	30	3.19703	-0.01174			
L2411596-01D	1	31	10.07577	-0.01262			
WG1892108-3; DUP NO3 596-01	1	32	10.02053	-0.01194			
WG1892108-4; MS NO3 596-01	1	33	14.71288	-0.04893	5.00		
L2411596-01D	1	31	10.68386	-0.06192	5.00		
CCV NO3	1	S2	0.97668	-0.00956			
	Known Conc:		1.00000	0.00000			
CCB	1	S1	-0.01439	-0.01174			
	Known Conc:		0.00000	0.00000			

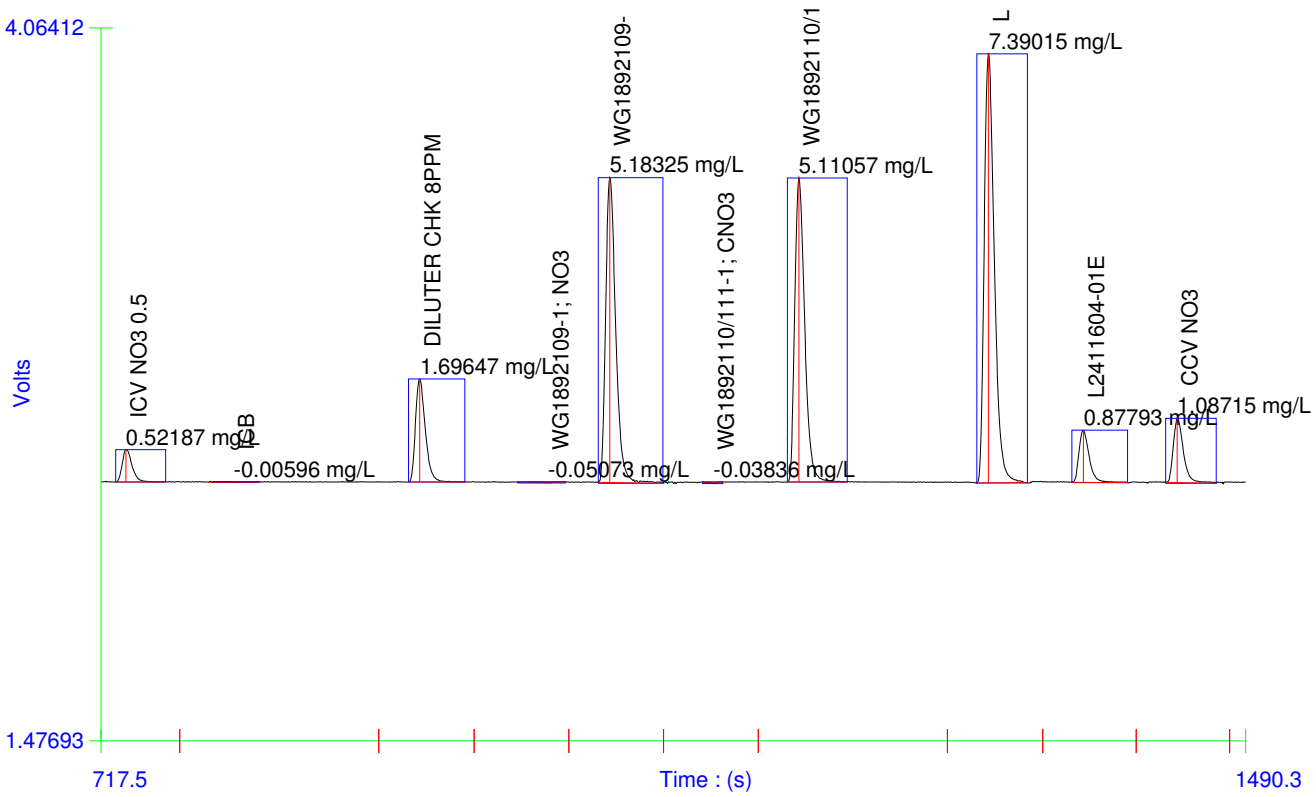
Author: KAF TRAY 2B Date : 240305-3

Channel 1 (NO3+NO2) - Set: 1 / 4



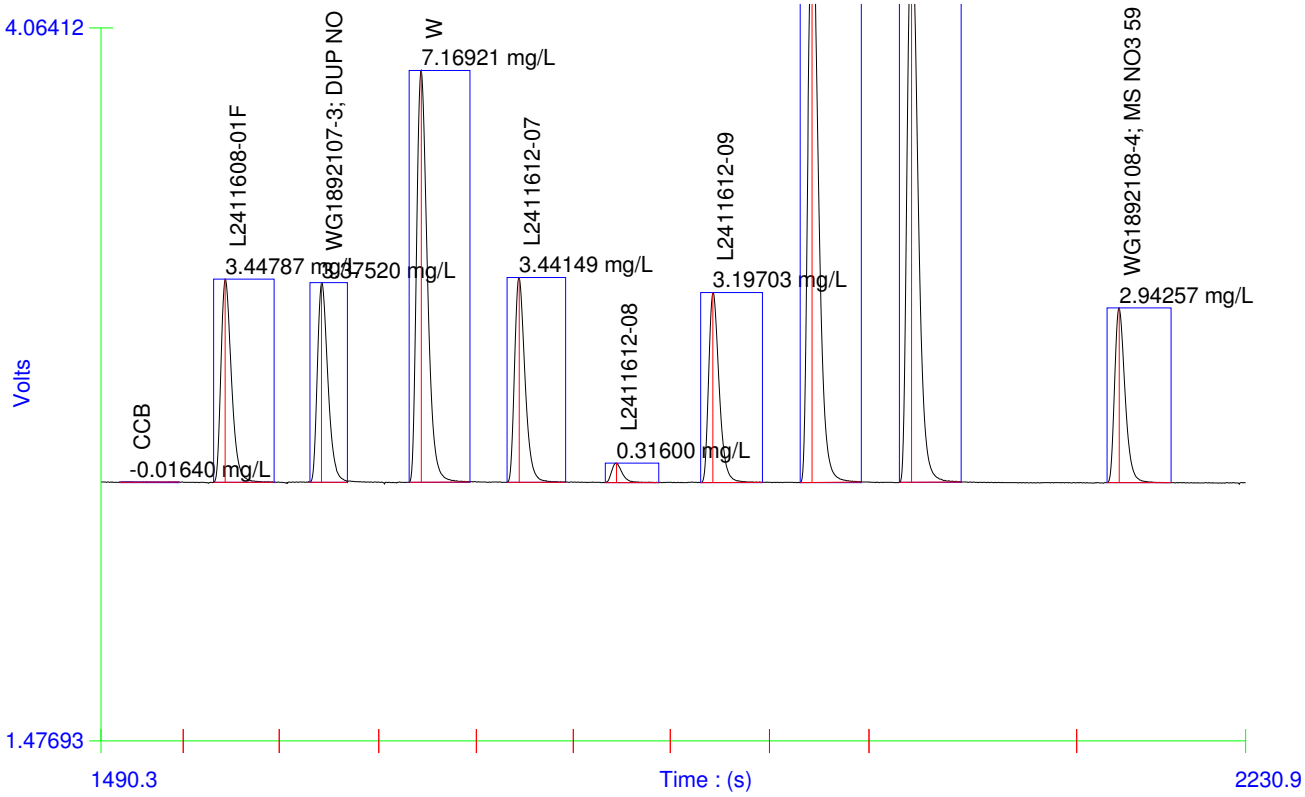
Author: KAF TRAY 2B Date : 240305-3

Channel 1 (NO3+NO2) - Set: 2 / 4



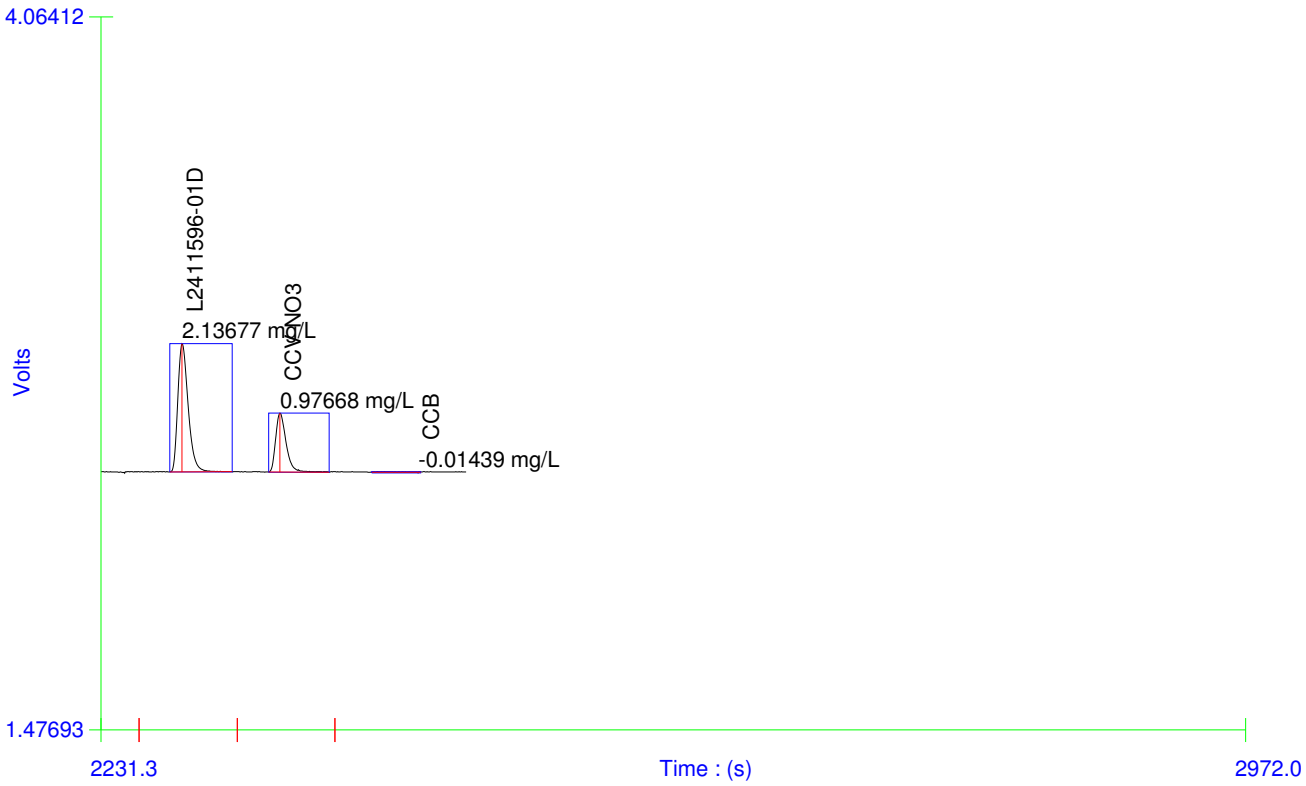
Author: KAF TRAY 2B Date : 240305-3

Channel 1 (NO3+NO2) - Set: 3 / 4



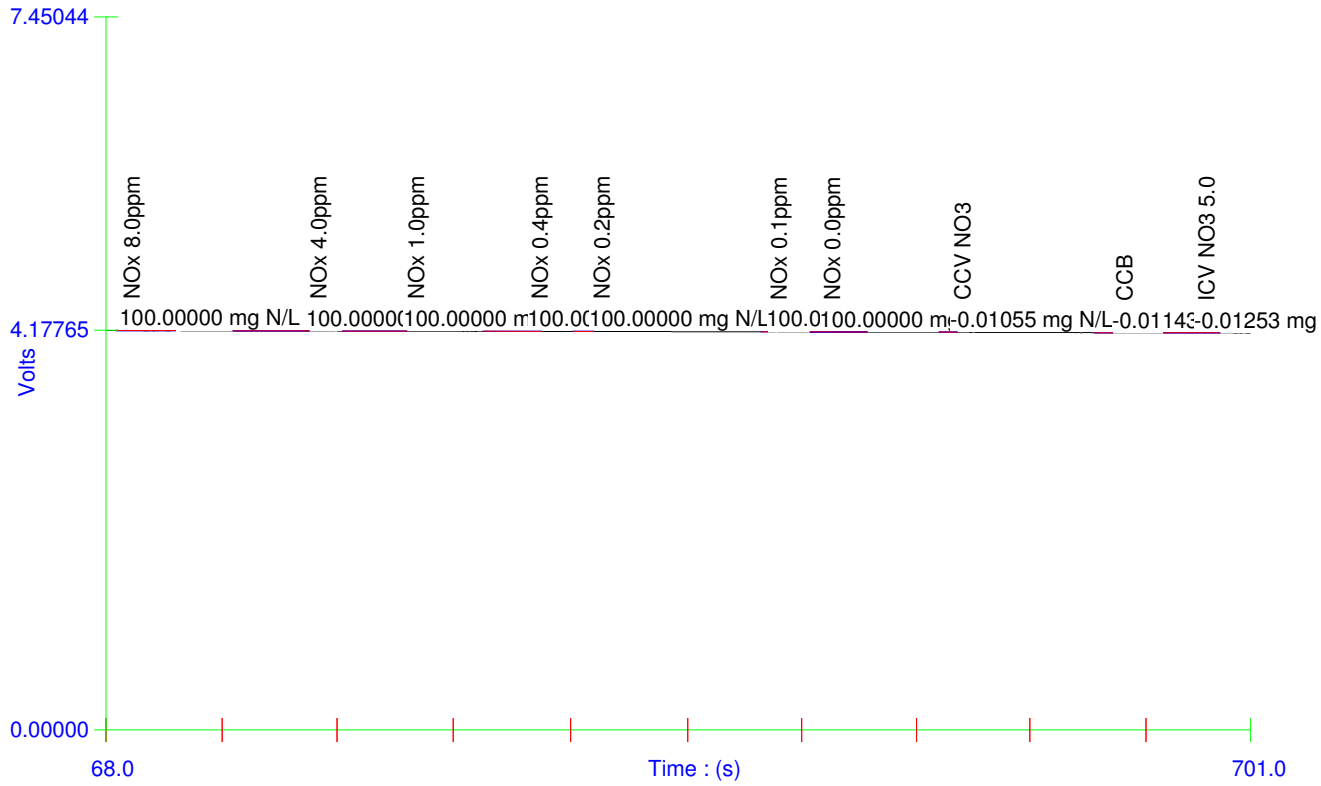
Author: KAF TRAY 2B Date : 240305-3

Channel 1 (NO3+NO2) - Set: 4 / 4



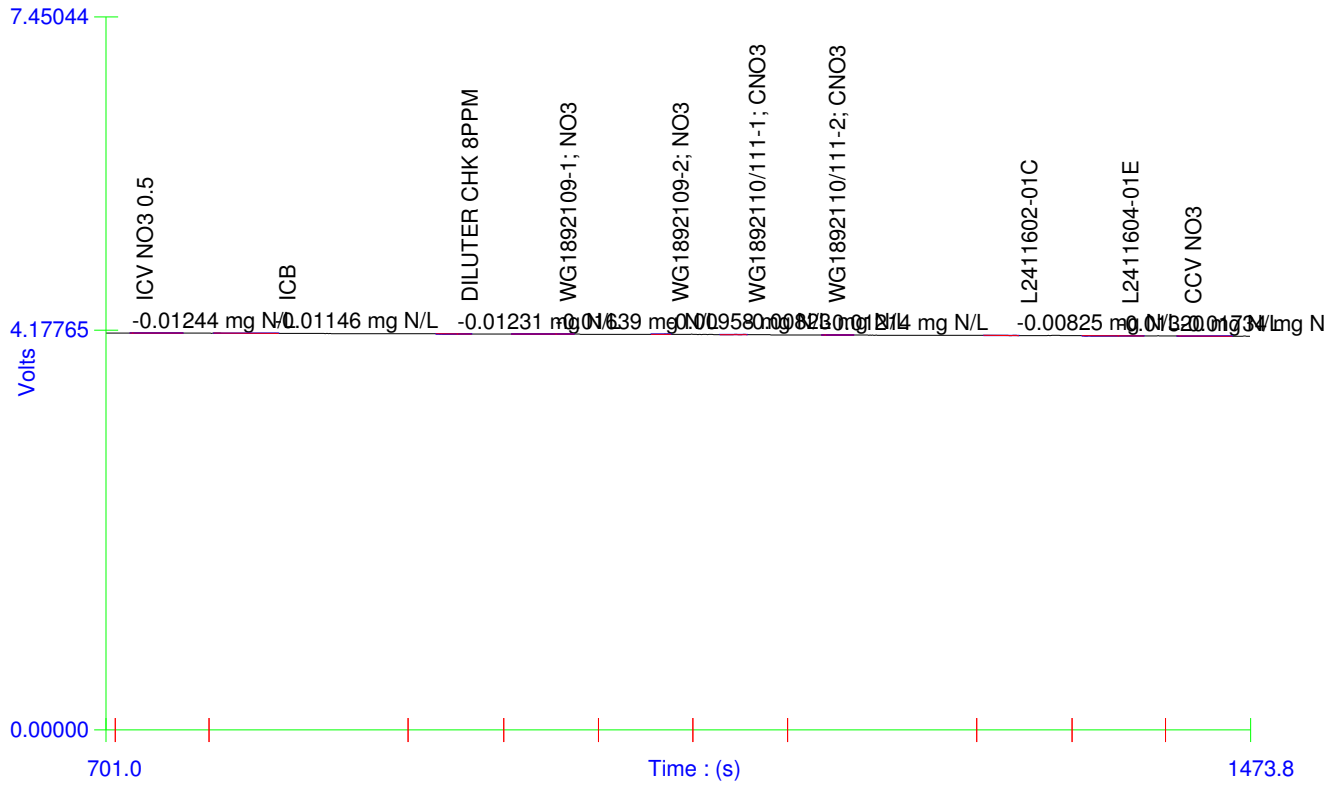
Author: KAF TRAY 2B Date : 240305-3

Channel 2 (NO2) - Set: 1 / 4



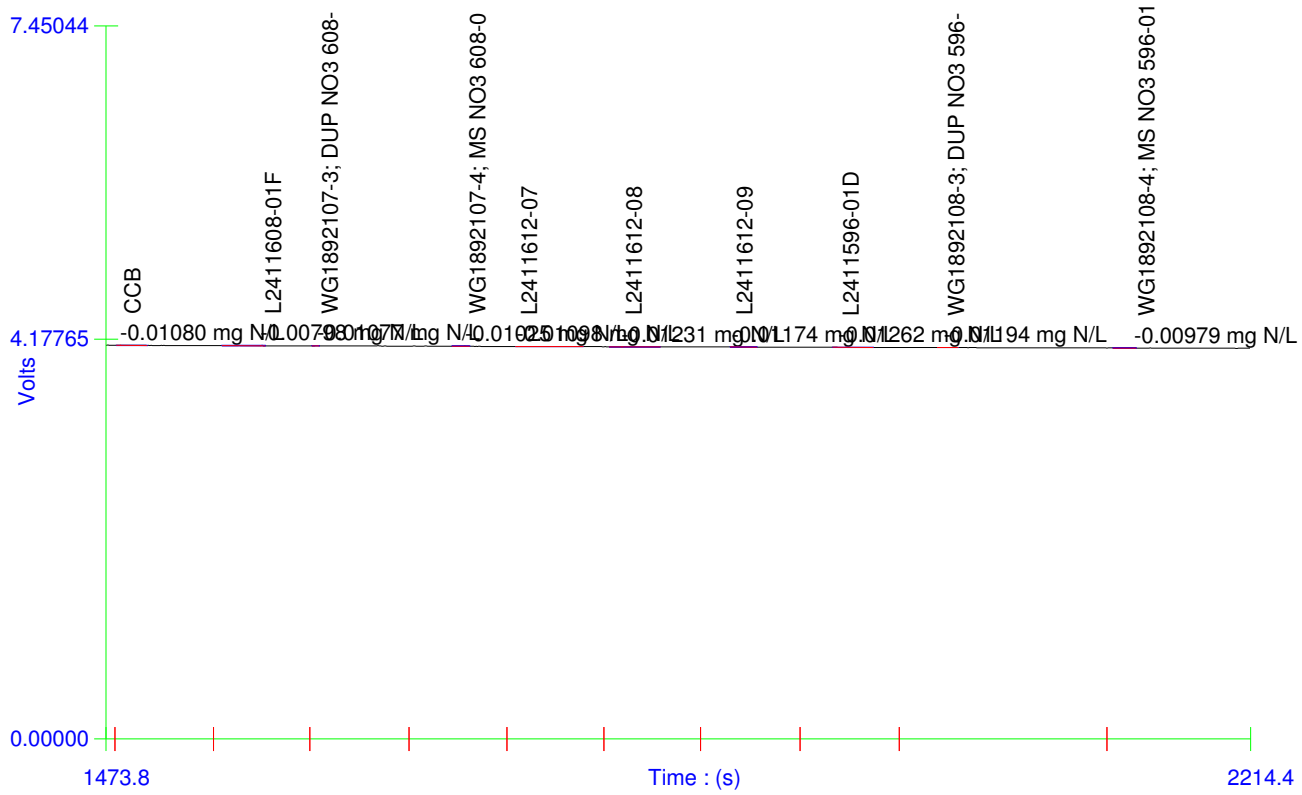
Author: KAF TRAY 2B Date : 240305-3

Channel 2 (NO2) - Set: 2 / 4



Author: KAF TRAY 2B Date : 240305-3

Channel 2 (NO2) - Set: 3 / 4



Channel 2 (NO2) - Set: 4 / 4

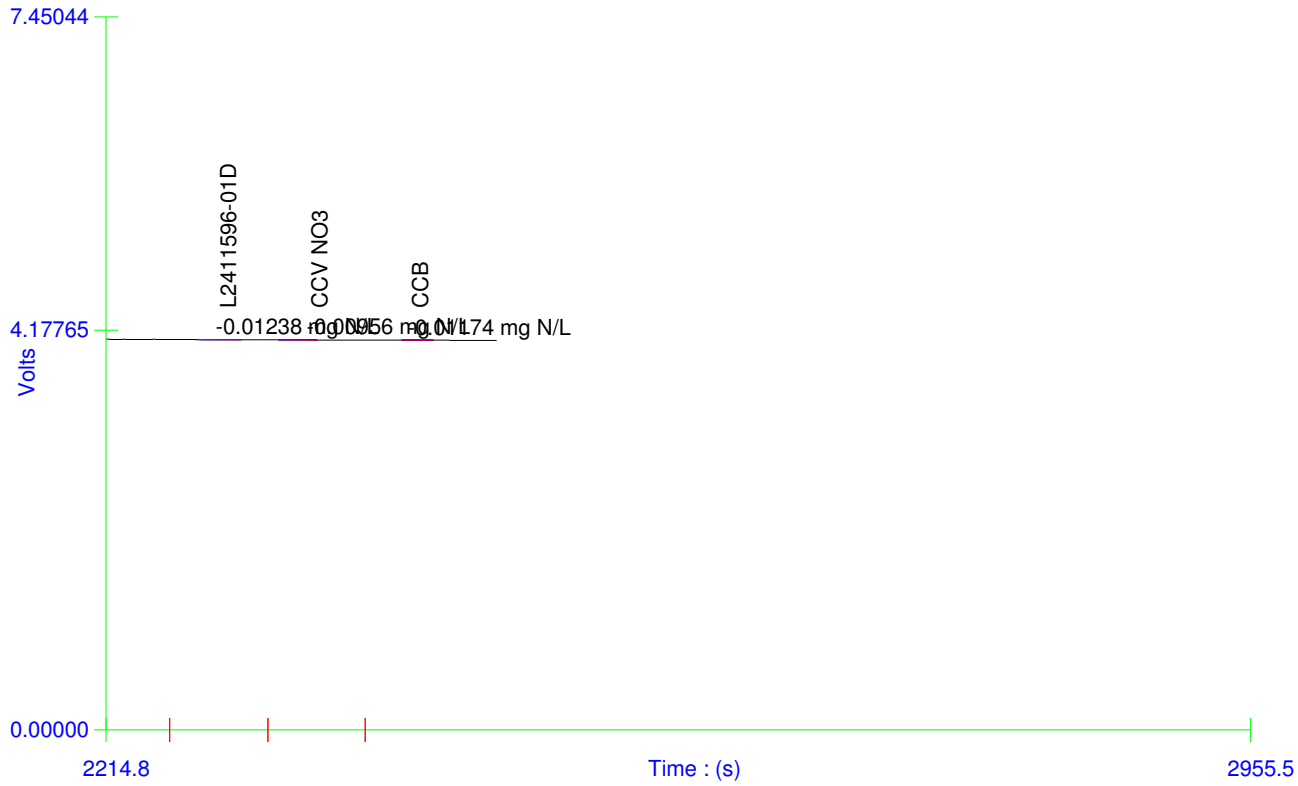
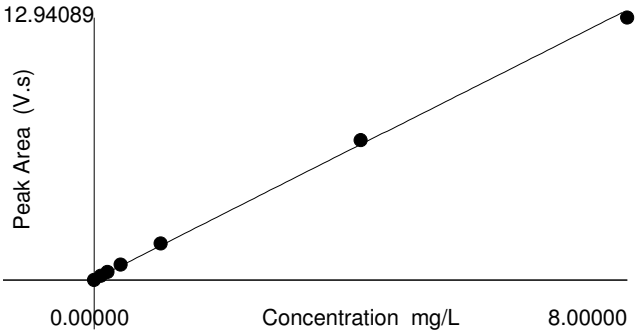


Table : 1 (NO3+NO2)

	Known Conc. (mg/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg/L)	Detection Date	Detection Time
1	8.00000	1	12.94089	1.65136	0.0	2.9	7.75543	3/5/2024	8:25:05 AM
2	4.00000	1	6.88504	0.89352	0.0	-3.1	4.11602	3/5/2024	8:26:23 AM
3	1.00000	1	1.79221	0.23483	0.0	-5.6	1.05536	3/5/2024	8:27:40 AM
4	0.40000	1	0.76243	0.09682	0.0	-8.7	0.43649	3/5/2024	8:28:58 AM
5	0.20000	1	0.38969	0.04968	0.0	-5.6	0.21248	3/5/2024	8:30:17 AM
6	0.10000	1	0.20473	0.02602	0.0	-0.9	0.10133	3/5/2024	8:31:36 AM
7	0.00000	1	-0.00059	-0.00076			-0.02207	3/5/2024	8:32:52 AM

Figure : 1 (NO3+NO2)



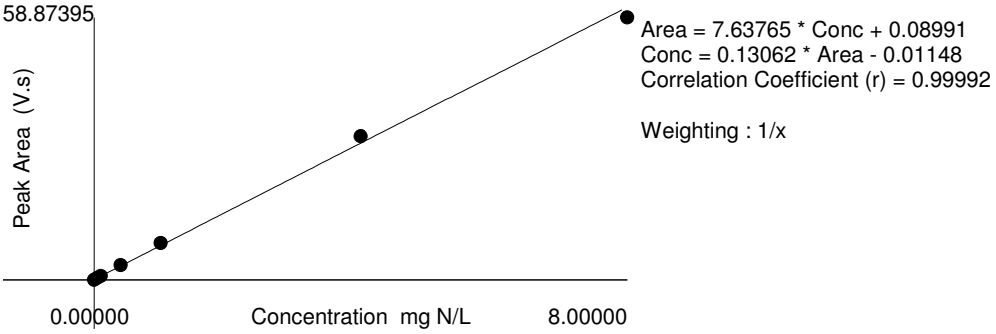
Area = 1.66091 * Conc + 0.03676
Conc = 0.60097 * Area - 0.02171
Correlation Coefficient (r) = 0.99989

Weighting : 1/x

Table : 2 (Nitrite)

	Known Conc. (mg N/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg N/L)	Detection Date	Detection Time
1	8.00000	1	58.87395	4.97182	0.0	3.8	7.67871	3/1/2024	3:35:10 AM
2	4.00000	1	32.20557	2.92996	0.0	-5.1	4.19525	3/1/2024	3:36:27 AM
3	1.00000	1	8.23526	0.75850	0.0	-6.6	1.06422	3/1/2024	3:37:44 AM
4	0.40000	1	3.34609	0.30627	0.0	-6.4	0.42559	3/1/2024	3:39:02 AM
5	0.10000	1	0.90127	0.07887	0.0	-5.6	0.10624	3/1/2024	3:40:20 AM
6	0.05000	1	0.46750	0.04041	0.0	0.9	0.04958	3/1/2024	3:41:39 AM
7	0.00000	1	0.01481	0.00305			-0.00955	3/1/2024	3:42:55 AM

Figure : 2 (Nitrite)

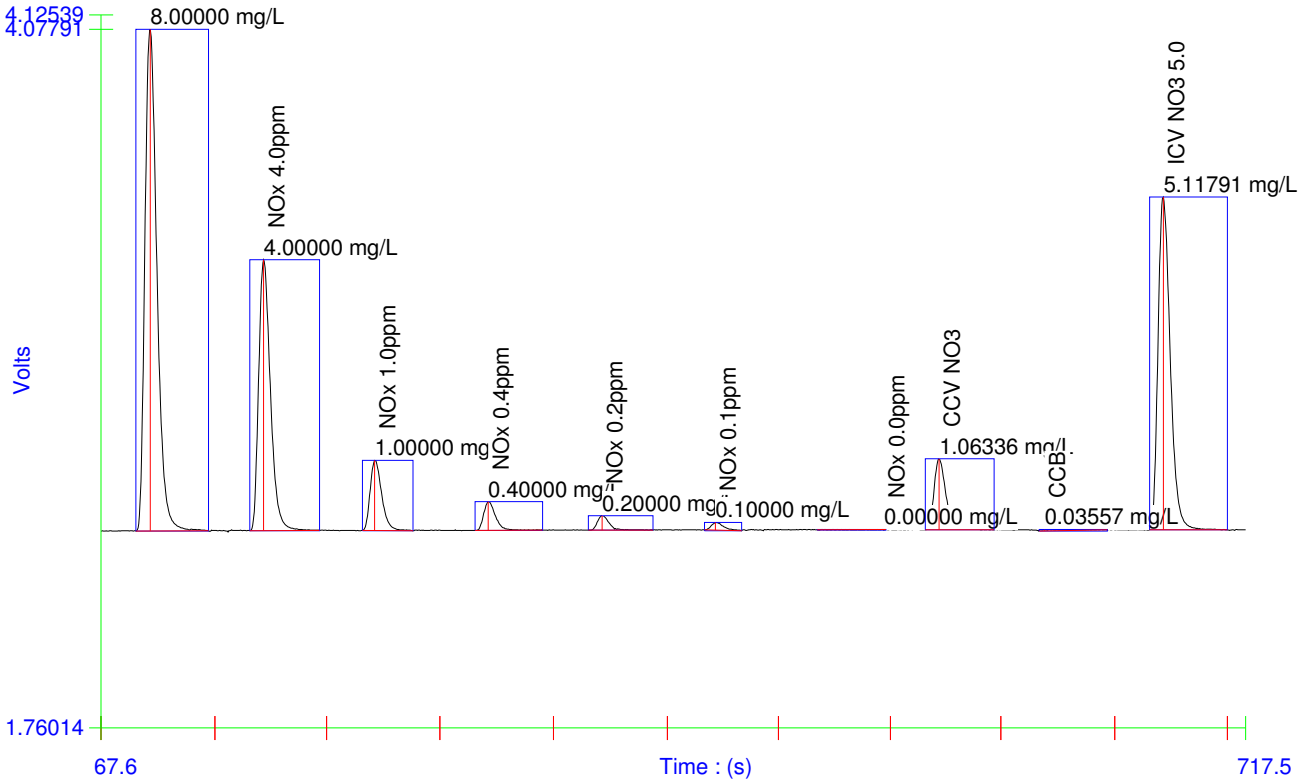


Original Run Filename: OM_3-5-2024_09-16-34AM.OMN Created: 3/5/2024 9:16:34 AM
Original Run Author's Signature: [A1wetcheminstrument]
Current Run Filename: OM_3-5-2024_09-16-34AM.OMN Last Modified: 3/5/2024 10:05:41 AM
Current Run Author's Signature: [A1wetcheminstrument]
Description: Default New Run

Sample	Rep.	Cup No.	Channel 1 NO3+NO2 (mg/L)	Channel 2 Nitrite (mg N/L)	ADF	MDF	Weight
NOx 8.0ppm	1	S3	8.00000	100.00000			
NOx 4.0ppm	1	S4	4.00000	100.00000			
NOx 1.0ppm	1	S2	1.00000	100.00000			
NOx 0.4ppm	1	S5	0.40000	100.00000			
NOx 0.2ppm	1	S6	0.20000	100.00000			
NOx 0.1ppm	1	S7	0.10000	100.00000			
NOx 0.0ppm	1	S1	0.00000	100.00000			
CCV NO3	1	S2	1.06336	-0.01183			
	Known Conc:		1.00000	0.00000			
	Calibration:		Table/Fig. : 1	Table/Fig. : 2			
CCB	1	S1	0.03557	-0.01066			
	Known Conc:		0.00000	0.00000			
ICV NO3 5.0	1	1	5.11791	-0.01385			
ICV NO3 0.5	1	3	0.55181	-0.01686			
ICB	1	5	0.00241	-0.01238			
DILUTER CHK 8PPM	1	6	8.48775	-0.03800	5.00		
WG1892108-3; DUP NO3 596-01	1	32	11.60749	-0.06015	5.00		
L2411596-02D	1	34	0.10927	-0.01327			
WG1892107-1; NO3	1	13	-0.02480	-0.00734			
L2411372-14A	1	35	0.12326	-0.01166			
L2411372-15A	1	36	0.32412	-0.01206			
L2411372-16A	1	37	0.02910	-0.01234			
CCV NO3	1	S2	1.00537	-0.01140			
	Known Conc:		1.00000	0.00000			
CCB	1	S1	-0.00949	-0.01225			
	Known Conc:		0.00000	0.00000			
L2411372-17A	1	38	0.03042	-0.01256			
L2411372-18A	1	39	0.76042	-0.01163			
L2411378-01A	1	40	0.75909	-0.01274			
L2411370-01A	1	41	2.56229	-0.01266			
L2411370-02A	1	42	3.34260	-0.01084			
L2411349-02M	1	43	0.00758	-0.01097			
L2411349-03M	1	44	0.06701	-0.01142			
WG1892109-3; DUP NO3 349-03	1	45	0.06534	-0.01182			
WG1892109-4; MS NO3 349-03	1	46	3.94653	-0.01204			
L2411349-04M	1	47	0.55671	-0.01206			
CCV NO3	1	S2	0.92978	-0.01209			
	Known Conc:		1.00000	0.00000			
CCB	1	S1	-0.03212	-0.01329			
	Known Conc:		0.00000	0.00000			
L2411349-05M	1	48	0.14044	-0.01134			

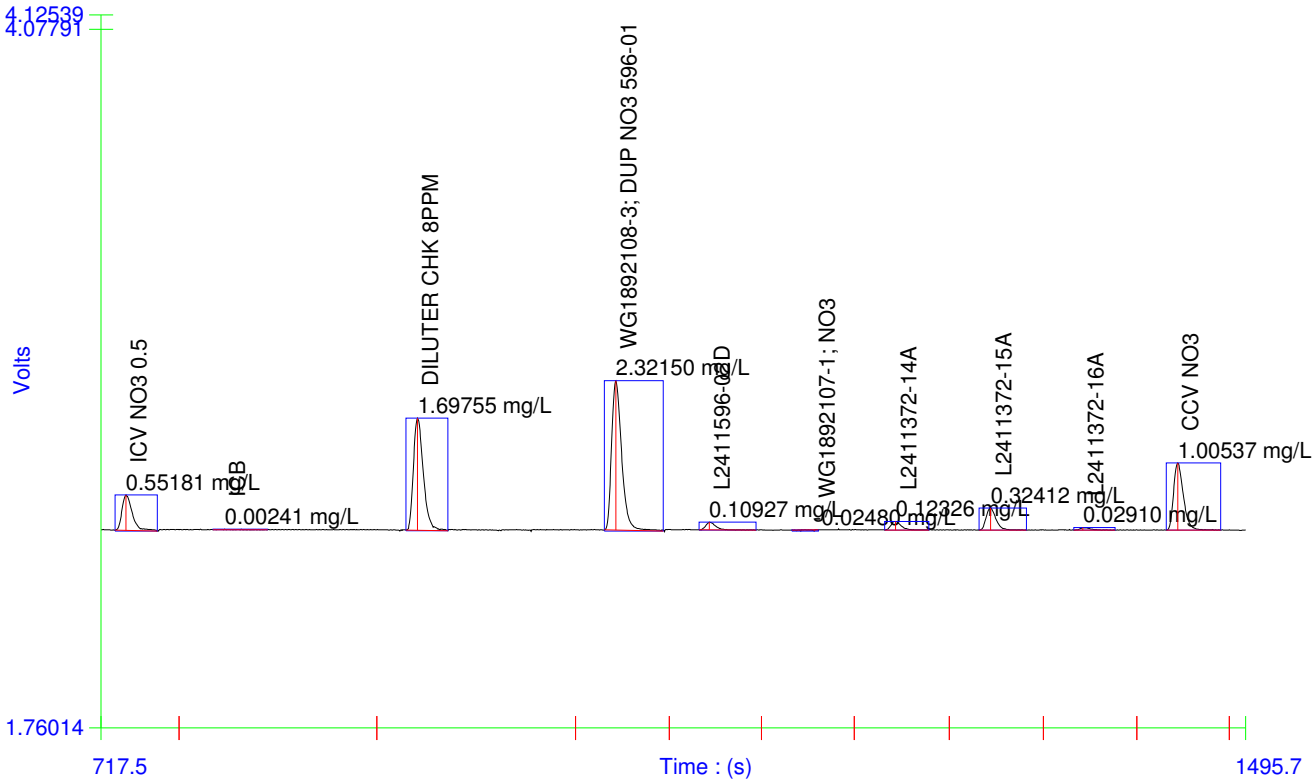
Author: KAF TRAY 2C Date : 240305-4

Channel 1 (NO3+NO2) - Set: 1 / 4



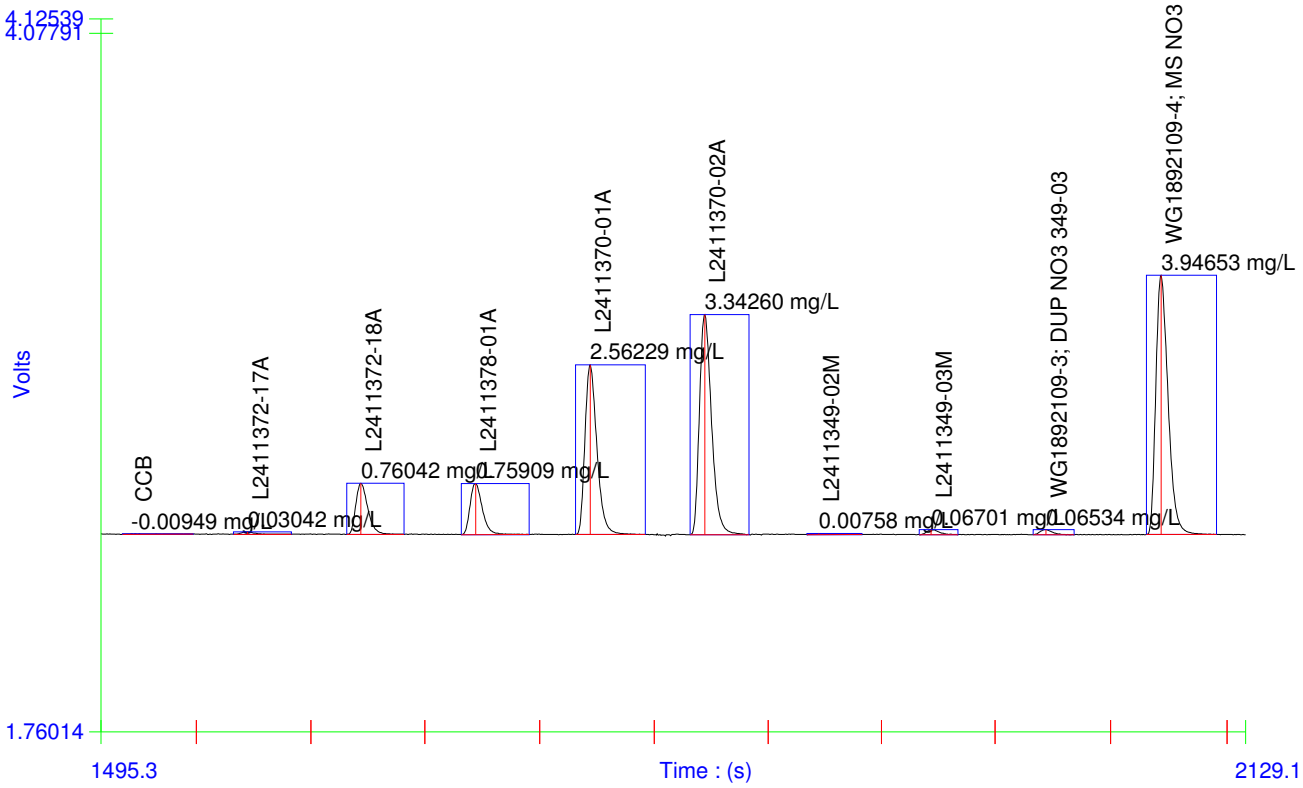
Author: KAF TRAY 2C Date : 240305-4

Channel 1 (NO3+NO2) - Set: 2 / 4



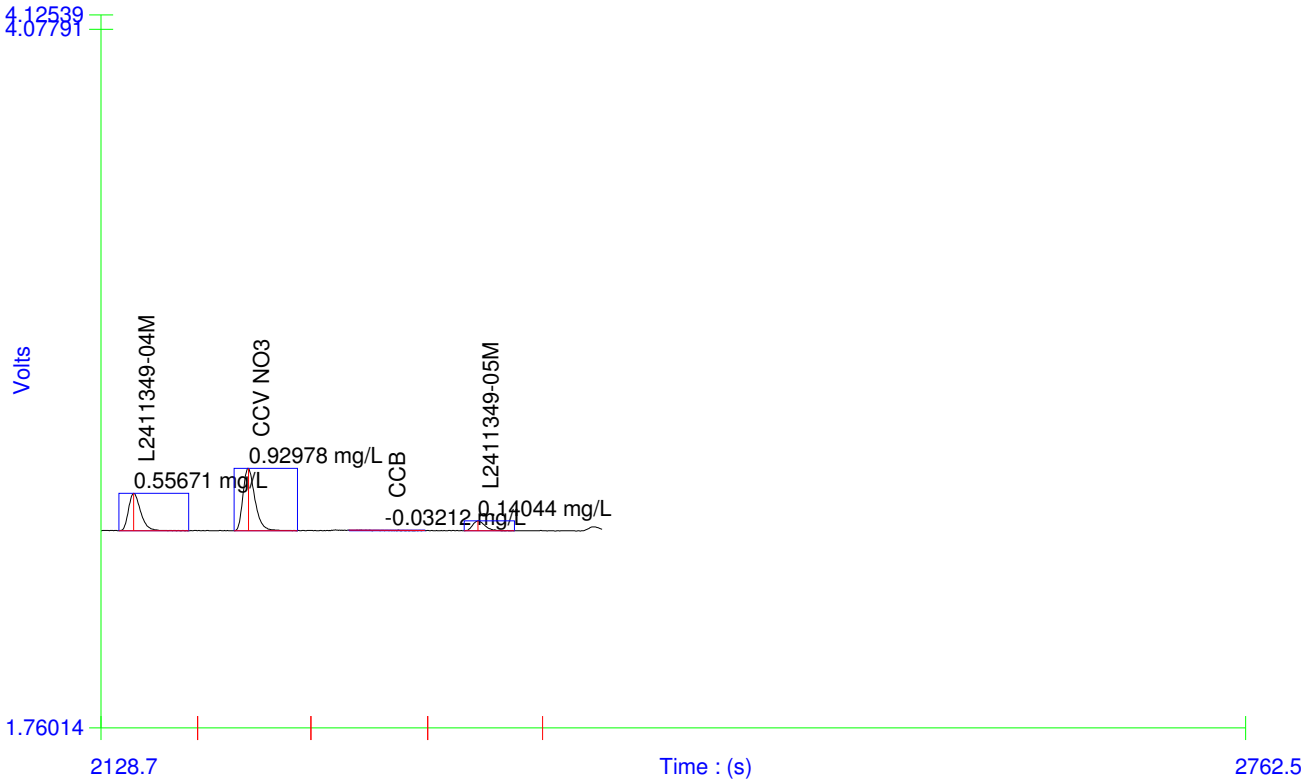
Author: KAF TRAY 2C Date : 240305-4

Channel 1 (NO3+NO2) - Set: 3 / 4



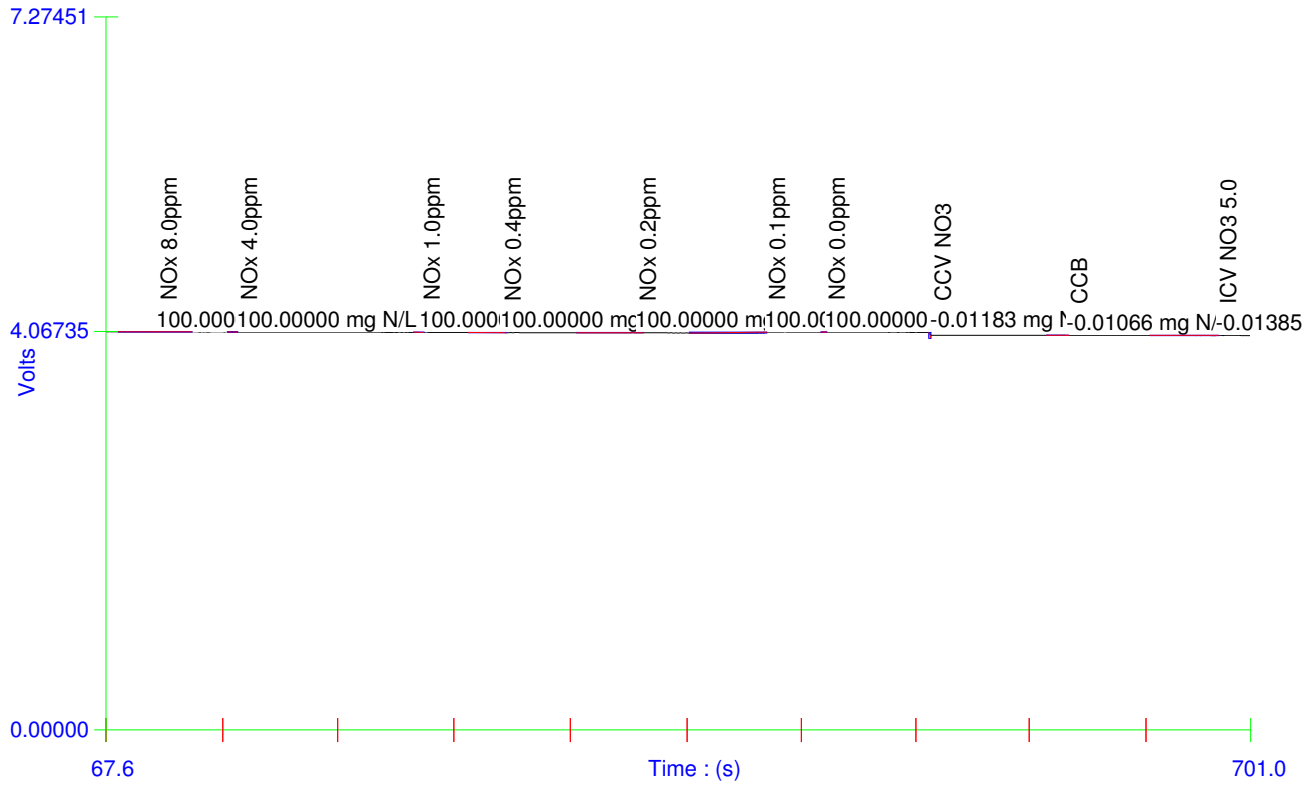
- 4 -

Channel 1 (NO3+NO2) - Set: 4 / 4



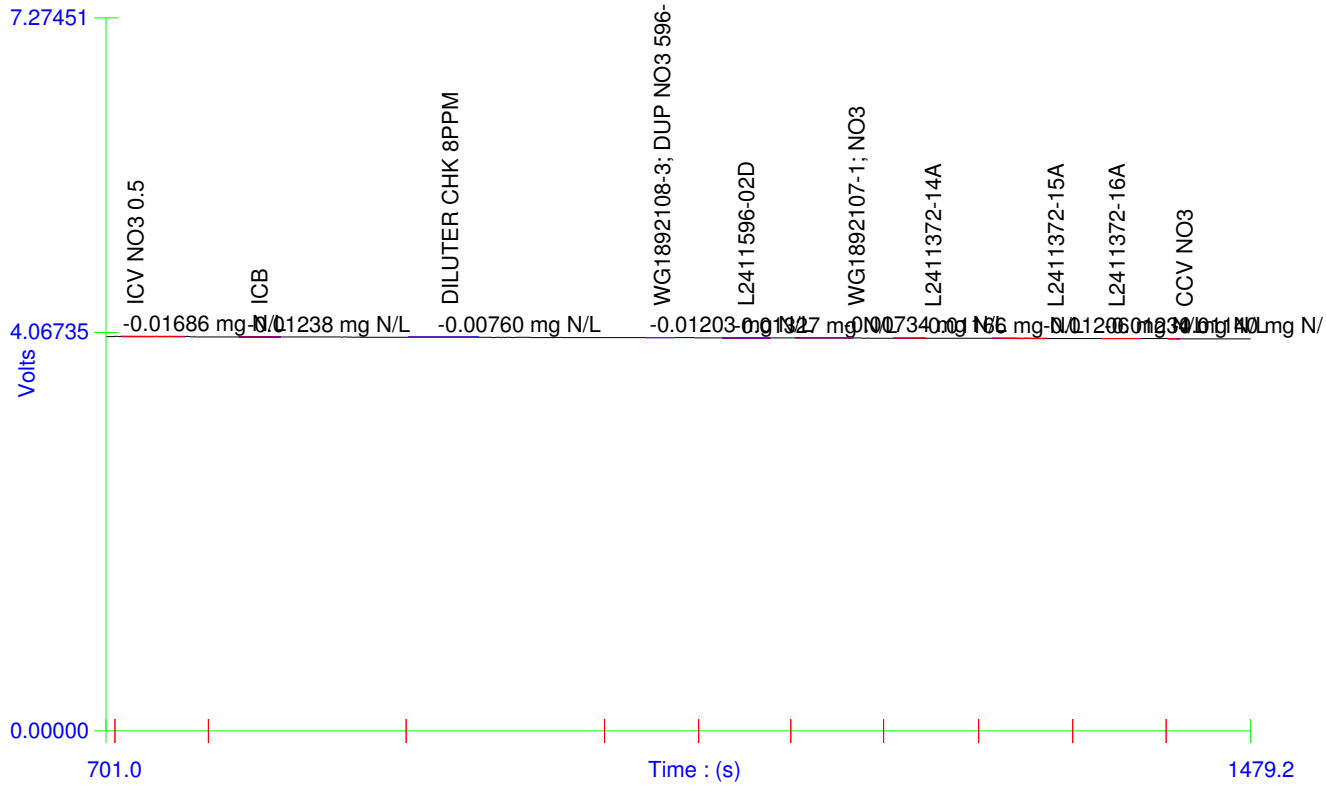
Author: KAF TRAY 2C Date : 240305-4

Channel 2 (NO2) - Set: 1 / 4



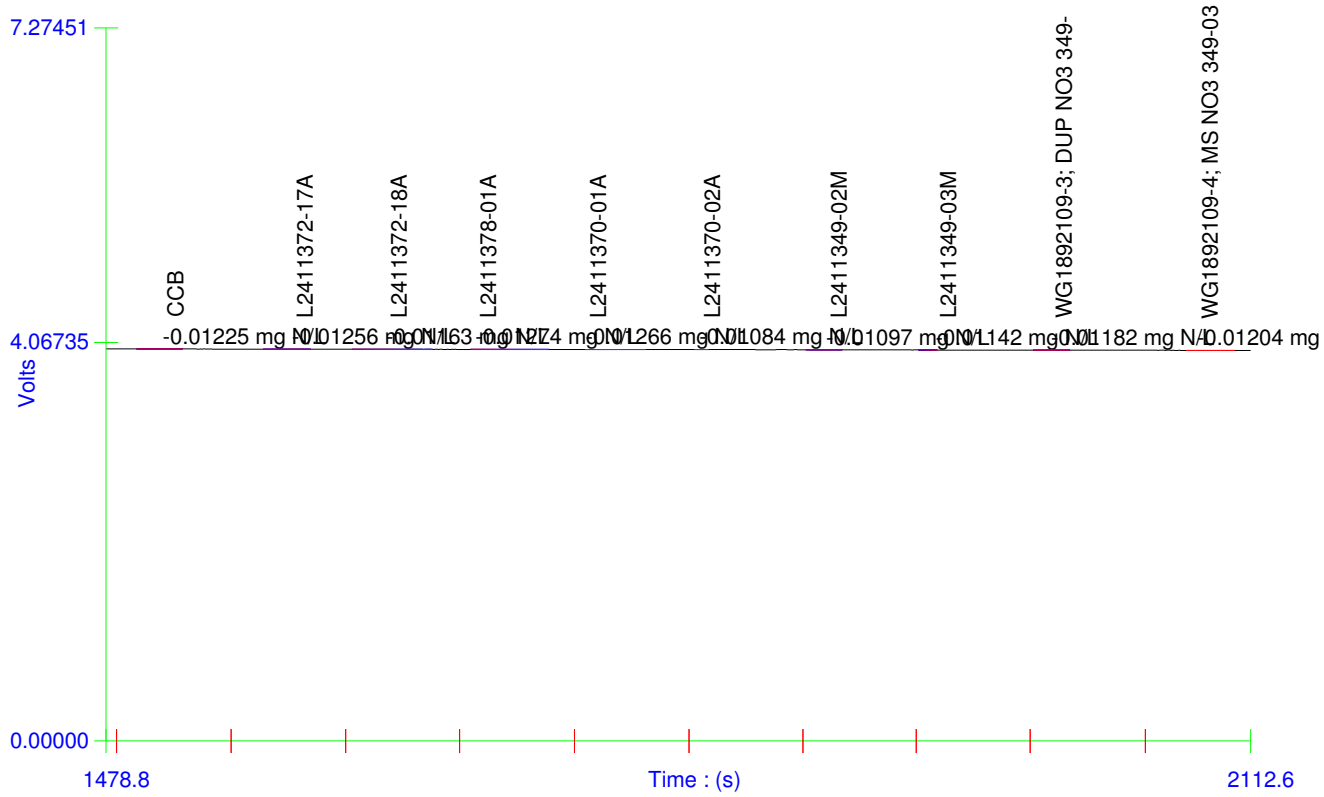
Author: KAF TRAY 2C Date : 240305-4

Channel 2 (NO2) - Set: 2 / 4



Author: KAF TRAY 2C Date : 240305-4

Channel 2 (NO2) - Set: 3 / 4



Channel 2 (NO2) - Set: 4 / 4

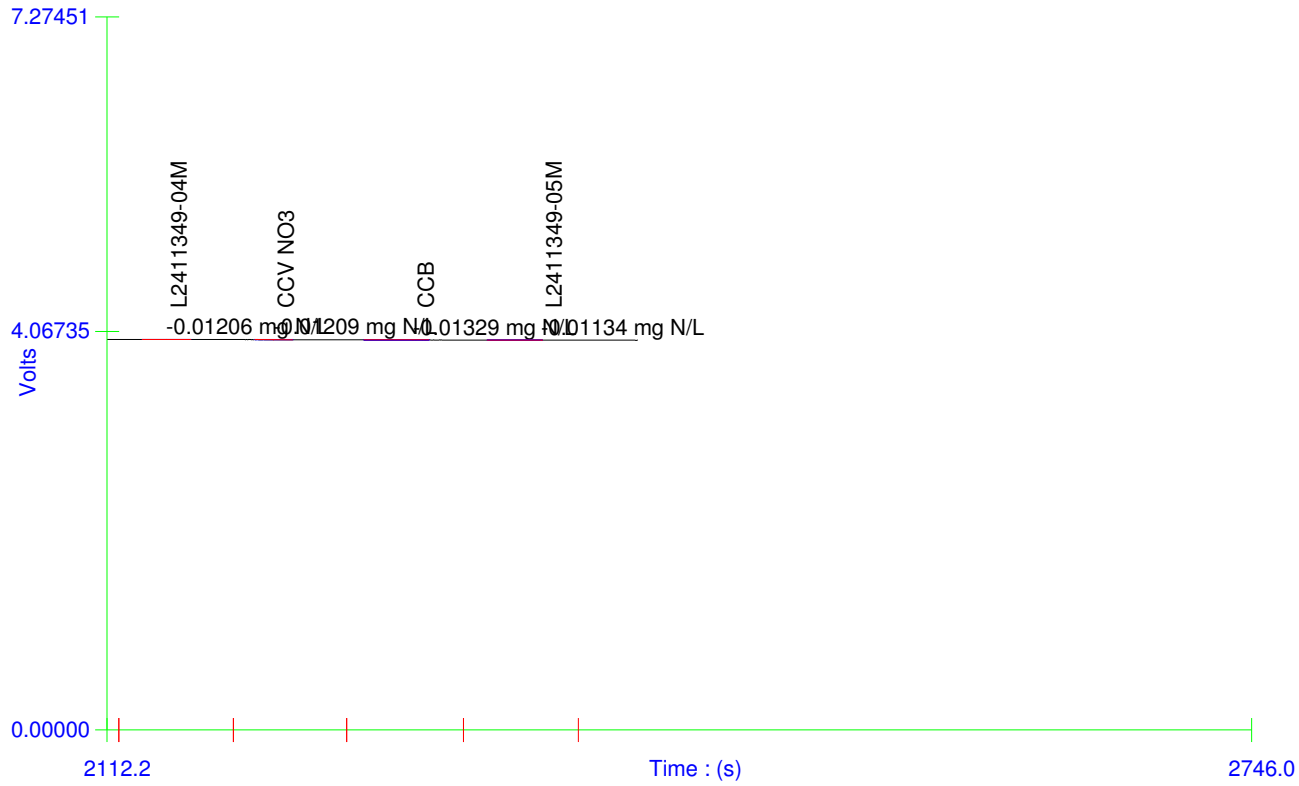
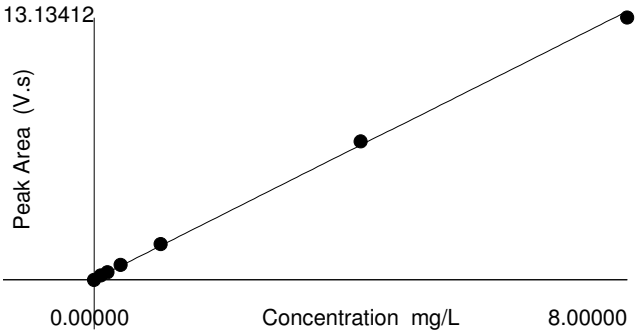


Table : 1 (NO3+NO2)

	Known Conc. (mg/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg/L)	Detection Date	Detection Time
1	8.00000	1	13.13412	1.66388	0.0	2.4	7.79660	3/5/2024	9:18:14 AM
2	4.00000	1	6.92506	0.89855	0.0	-2.7	4.10405	3/5/2024	9:19:29 AM
3	1.00000	1	1.77474	0.23279	0.0	-4.2	1.04114	3/5/2024	9:20:46 AM
4	0.40000	1	0.73507	0.09526	0.0	-5.6	0.42285	3/5/2024	9:22:04 AM
5	0.20000	1	0.37119	0.04850	0.0	-3.0	0.20645	3/5/2024	9:23:23 AM
6	0.10000	1	0.21051	0.02563	0.0	-9.4	0.11089	3/5/2024	9:24:41 AM
7	0.00000	1	-0.01630	-0.00147			-0.02400	3/5/2024	9:25:58 AM

Figure : 1 (NO3+NO2)



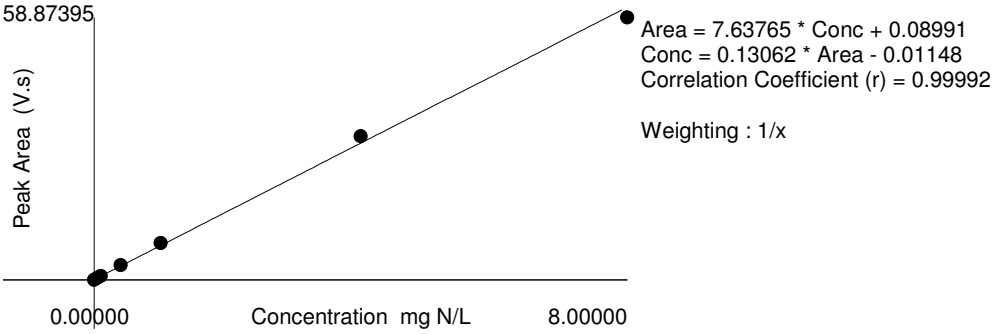
Area = 1.67908 * Conc + 0.02456
Conc = 0.59470 * Area - 0.01430
Correlation Coefficient (r) = 0.99991

Weighting : 1/x

Table : 2 (Nitrite)

	Known Conc. (mg N/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg N/L)	Detection Date	Detection Time
1	8.00000	1	58.87395	4.97182	0.0	3.8	7.67871	3/1/2024	3:35:10 AM
2	4.00000	1	32.20557	2.92996	0.0	-5.1	4.19525	3/1/2024	3:36:27 AM
3	1.00000	1	8.23526	0.75850	0.0	-6.6	1.06422	3/1/2024	3:37:44 AM
4	0.40000	1	3.34609	0.30627	0.0	-6.4	0.42559	3/1/2024	3:39:02 AM
5	0.10000	1	0.90127	0.07887	0.0	-5.6	0.10624	3/1/2024	3:40:20 AM
6	0.05000	1	0.46750	0.04041	0.0	0.9	0.04958	3/1/2024	3:41:39 AM
7	0.00000	1	0.01481	0.00305			-0.00955	3/1/2024	3:42:55 AM

Figure : 2 (Nitrite)

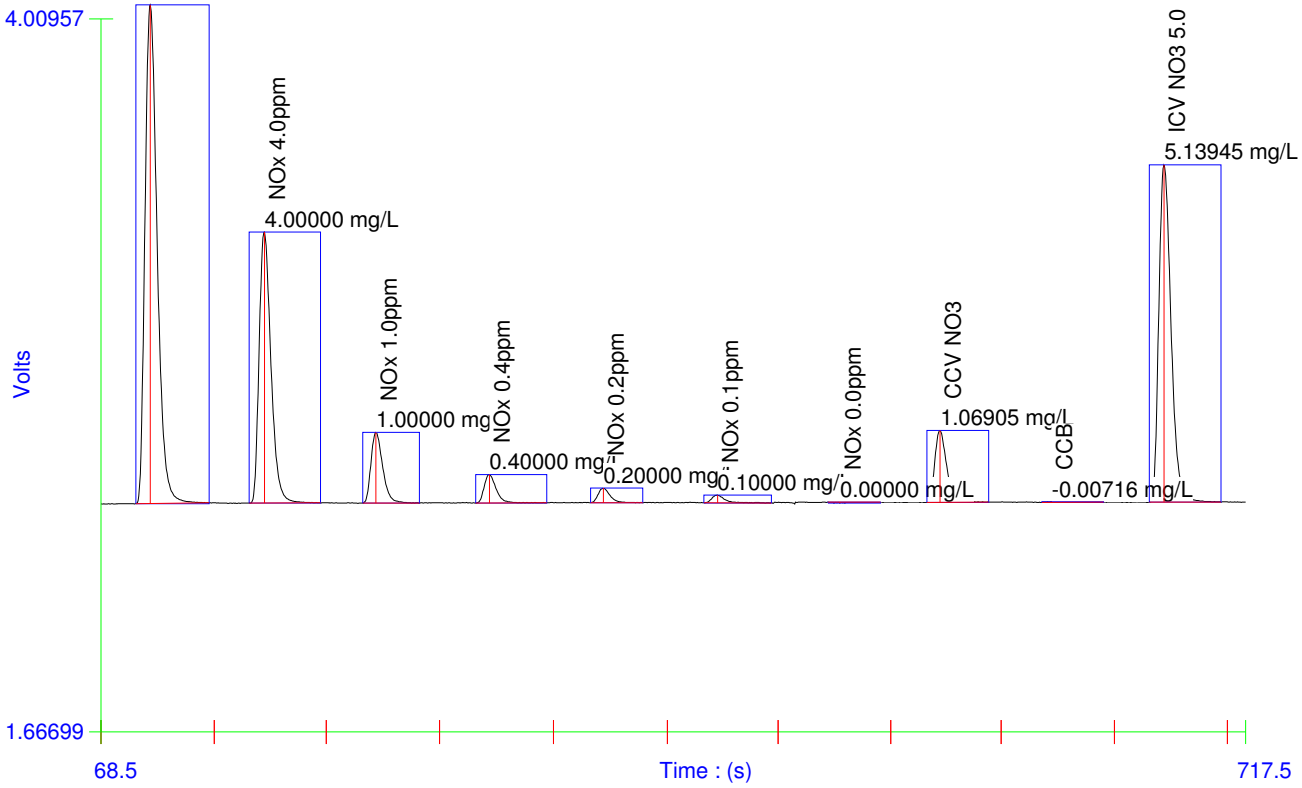


Original Run Filename: OM_3-5-2024_10-09-37AM.OMN Created: 3/5/2024 10:09:37 AM
Original Run Author's Signature: [A1wetcheminstrument]
Current Run Filename: OM_3-5-2024_10-09-37AM.OMN Last Modified: 3/5/2024 10:55:15 AM
Current Run Author's Signature: [A1wetcheminstrument]
Description: Default New Run

Sample	Rep.	Cup No.	Channel 1 NO3+NO2 (mg/L)	Channel 2 Nitrite (mg N/L)	ADF	MDF	Weight
NOx 8.0ppm	1	S3	8.00000	100.00000			
NOx 4.0ppm	1	S4	4.00000	100.00000			
NOx 1.0ppm	1	S2	1.00000	100.00000			
NOx 0.4ppm	1	S5	0.40000	100.00000			
NOx 0.2ppm	1	S6	0.20000	100.00000			
NOx 0.1ppm	1	S7	0.10000	100.00000			
NOx 0.0ppm	1	S1	0.00000	100.00000			
CCV NO3	1	S2	1.06905	-0.01151			
	Known Conc:		1.00000	0.00000			
	Calibration:		Table/Fig. : 1	Table/Fig. : 2			
CCB	1	S1	-0.00716	-0.01163			
	Known Conc:		0.00000	0.00000			
ICV NO3 5.0	1	1	5.13945	-0.01181			
ICV NO3 0.5	1	3	0.53891	-0.00816			
ICB	1	5	0.00190	-0.01067			
DILUTER CHK 8PPM	1	6	8.55838	-0.05568	5.00		
L2411349-05M	1	48	0.15779	-0.00731			
L2411349-06M	1	49	0.07490	-0.00689			
L2410530-01R	1	50	0.55028	-0.01034			
WG1892110-3; DUP CNO3 530-01	1	51	0.49740	-0.00689			
WG1892110-4; MS CNO3 530-01	1	52	4.64003	-0.01089			
L2410597-02A	1	53	2.27598	-0.01198			
CCV NO3	1	S2	1.01758	-0.01145			
	Known Conc:		1.00000	0.00000			
CCB	1	S1	-0.05474	-0.00824			
	Known Conc:		0.00000	0.00000			
L2410597-04A	1	54	2.43504	-0.00860			
L2410597-07A	1	55	2.08581	-0.01173			
L2410726-02A	1	56	2.45873	-0.01060			
L2410933-01G	1	57	0.73483	-0.01175			
L2410933-02G	1	58	0.10000	-0.00808			
L2411102-01J	1	59	1.19720	-0.01121			
L2411102-02J	1	60	1.38226	-0.00925			
L2410579-01Q	1	61	0.11619	-0.00944			
WG1892111-3; DUP CNO3 579-01	1	62	0.06224	-0.00947			
WG1892111-4; MS CNO3 579-01	1	63	3.90101	-0.01181			
CCV NO3	1	S2	0.92465	-0.01079			
	Known Conc:		1.00000	0.00000			

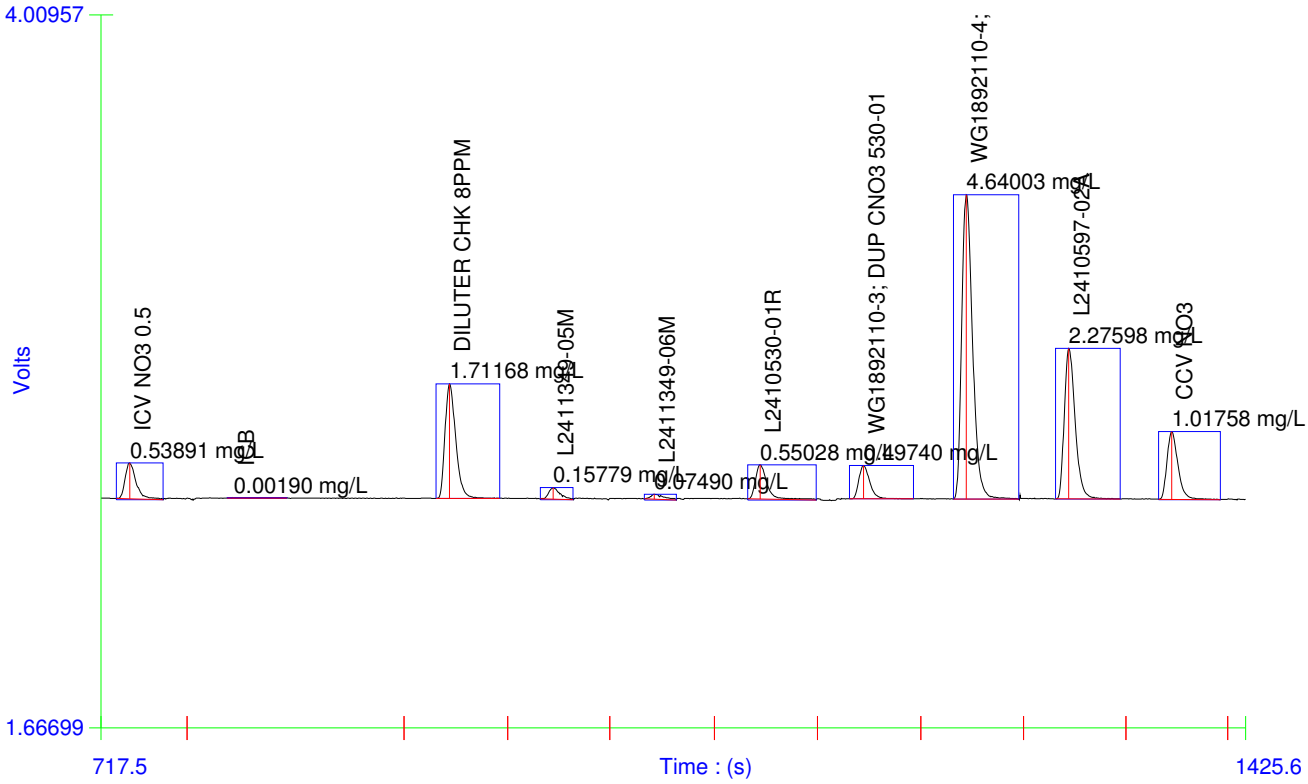
Author: KAF TRAY 2D Date : 240305-5

Channel 1 (NO3+NO2) - Set: 1 / 4



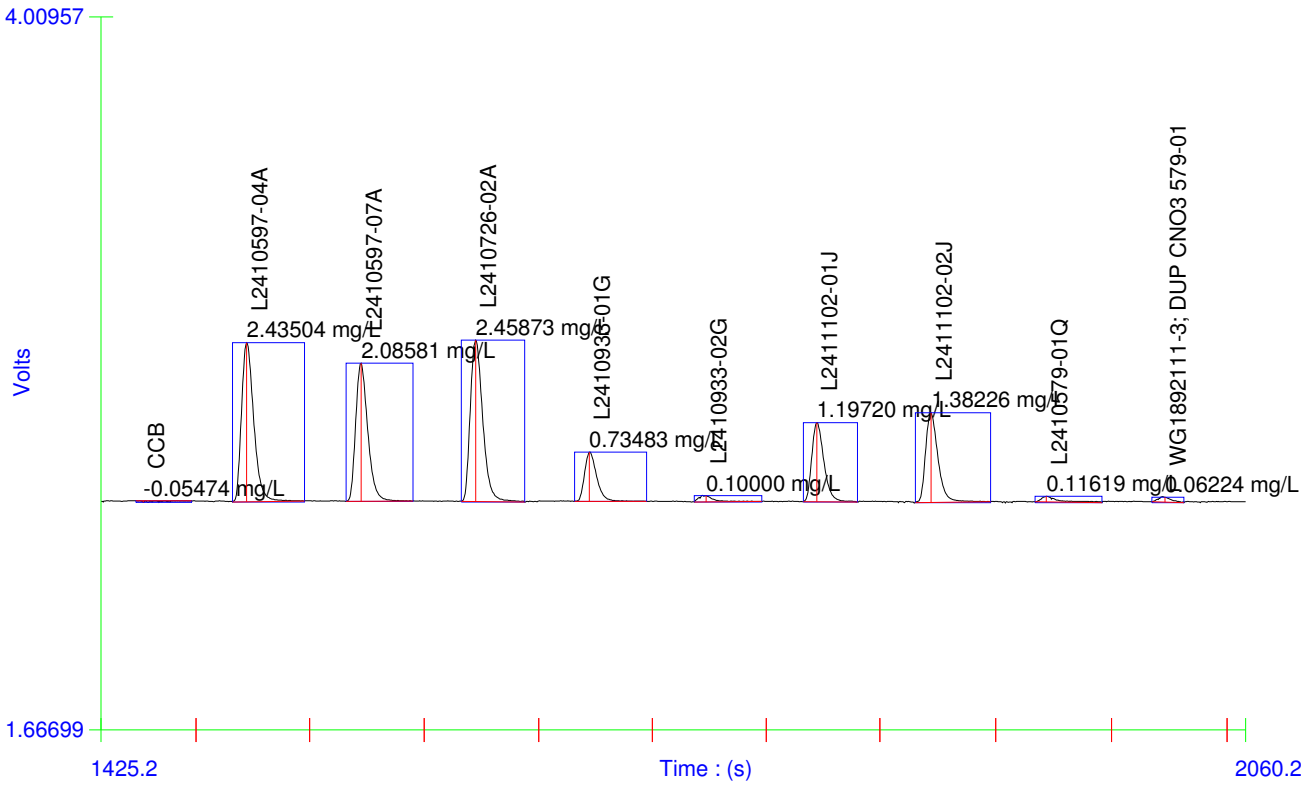
Author: KAF TRAY 2D Date : 240305-5

Channel 1 (NO3+NO2) - Set: 2 / 4

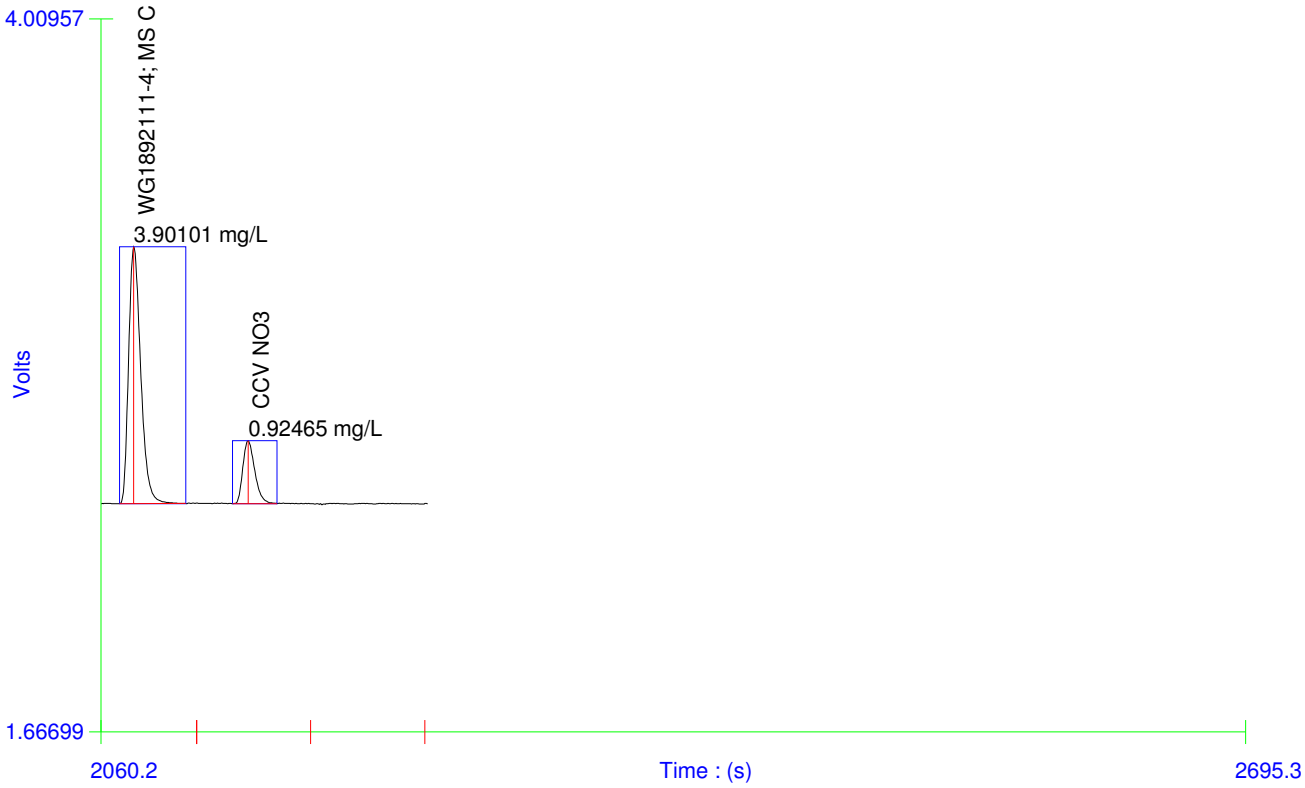


Author: KAF TRAY 2D Date : 240305-5

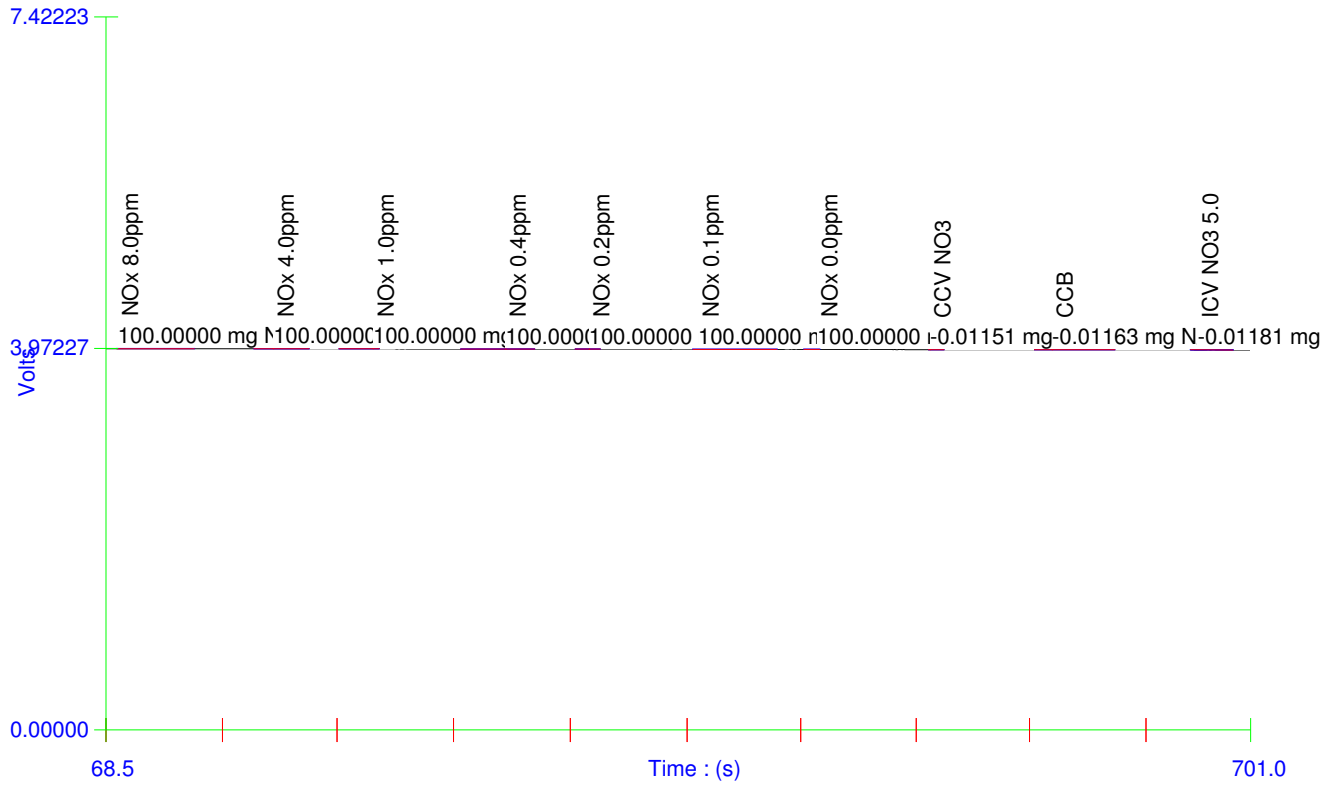
Channel 1 (NO3+NO2) - Set: 3 / 4



Channel 1 (NO3+NO2) - Set: 4 / 4

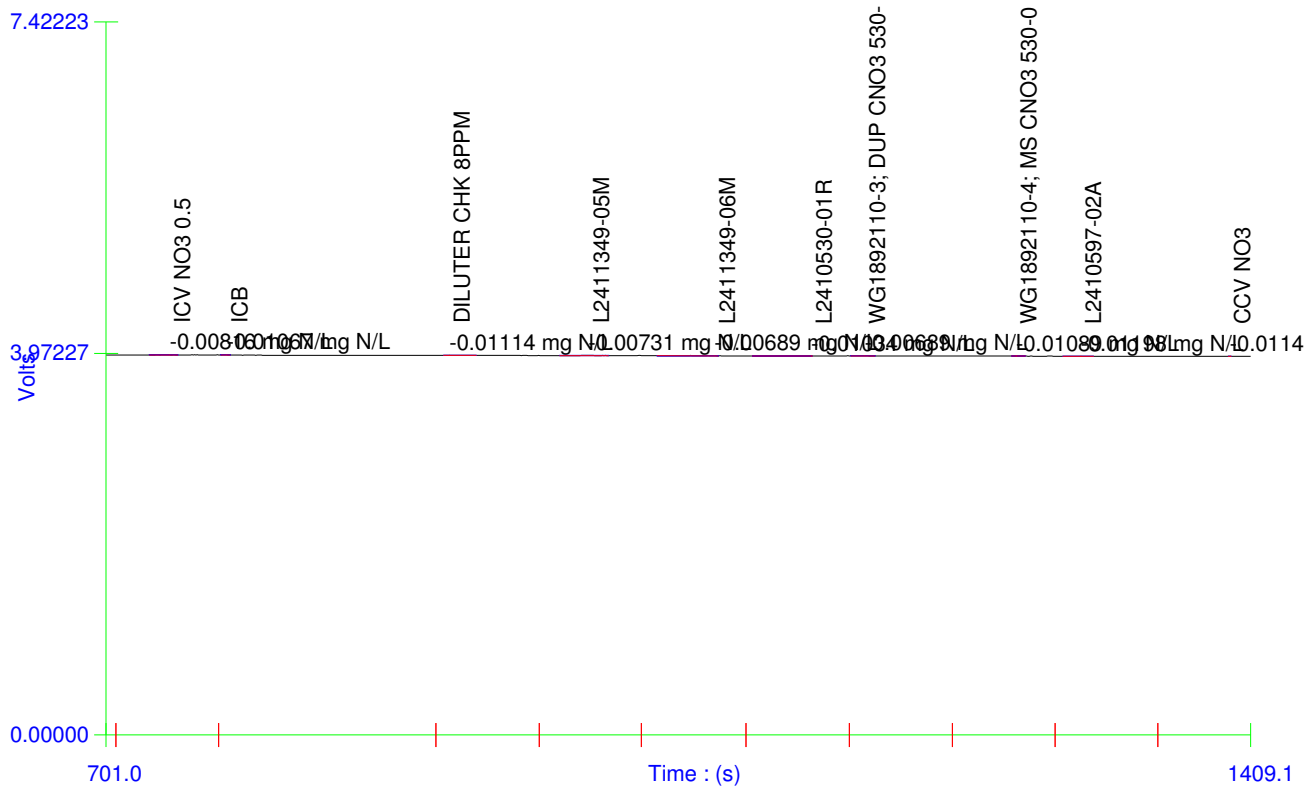


Channel 2 (NO2) - Set: 1 / 4

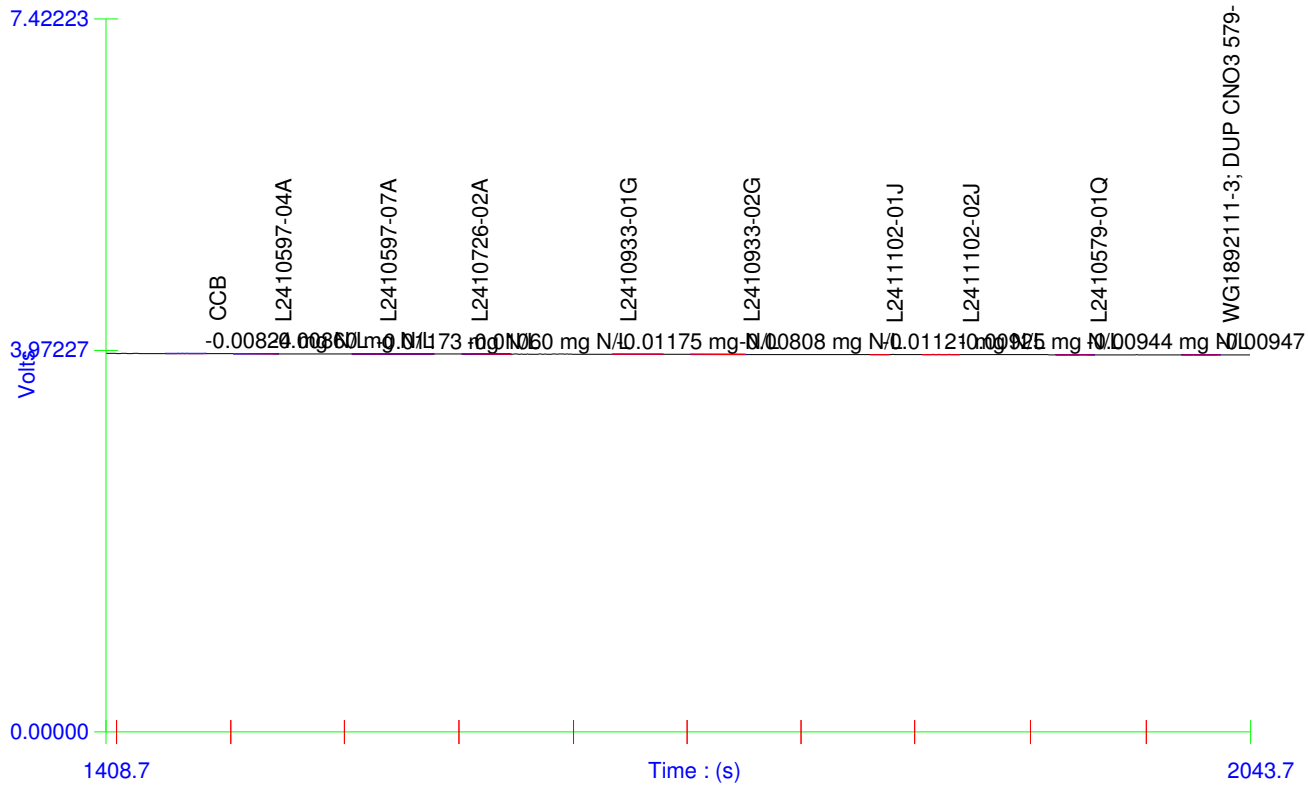


Author: KAF TRAY 2D Date : 240305-5

Channel 2 (NO2) - Set: 2 / 4



Channel 2 (NO2) - Set: 3 / 4



Channel 2 (NO2) - Set: 4 / 4

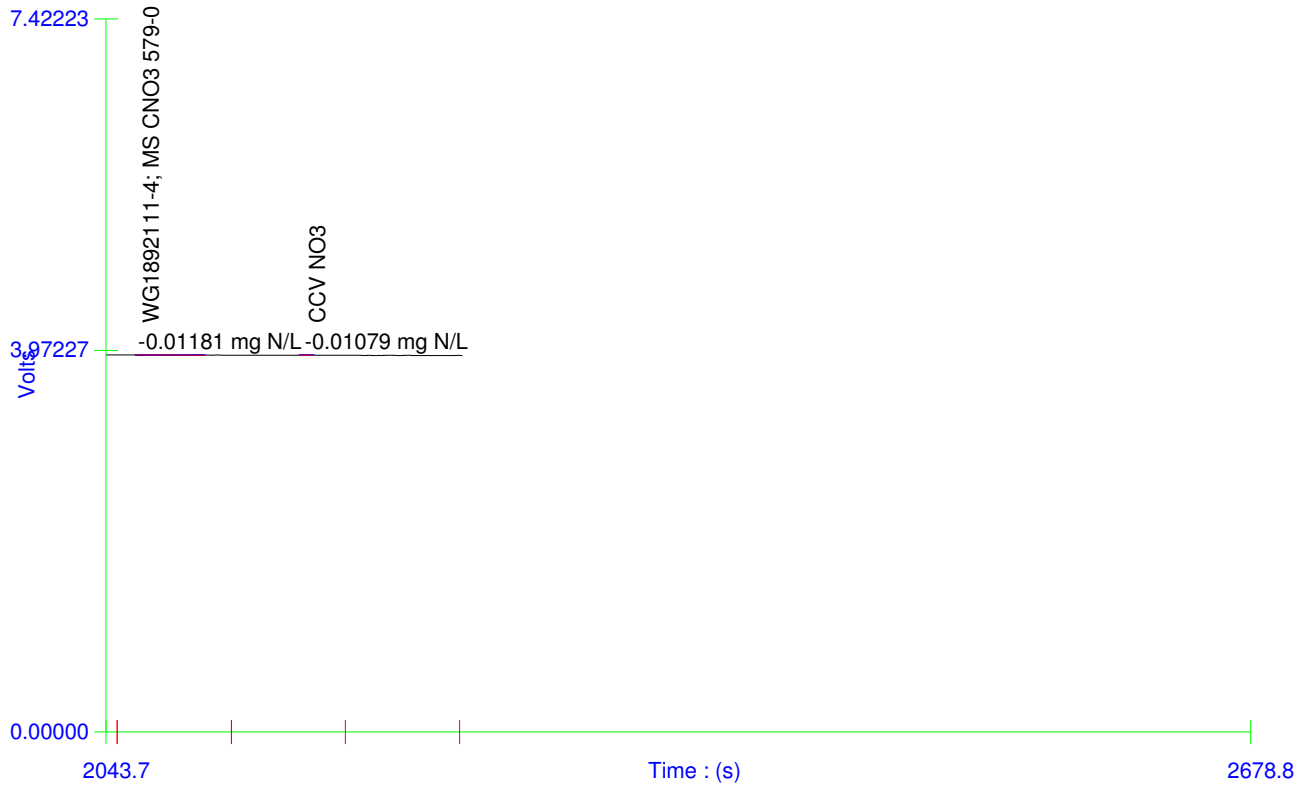


Table : 1 (NO3+NO2)

	Known Conc. (mg/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg/L)	Detection Date	Detection Time
1	8.00000	1	13.07071	1.63795	0.0	2.6	7.77717	3/5/2024	10:11:14 AM
2	4.00000	1	6.89490	0.88986	0.0	-2.6	4.09550	3/5/2024	10:12:32 AM
3	1.00000	1	1.78610	0.23229	0.0	-5.1	1.04992	3/5/2024	10:13:49 AM
4	0.40000	1	0.73254	0.09351	0.0	-5.4	0.42184	3/5/2024	10:15:07 AM
5	0.20000	1	0.37420	0.04771	0.0	-3.8	0.20822	3/5/2024	10:16:26 AM
6	0.10000	1	0.22555	0.02542	0.0	-16.8	0.11960	3/5/2024	10:17:44 AM
7	0.00000	1	-0.03171	-0.00344			-0.03376	3/5/2024	10:19:01 AM

Figure : 1 (NO3+NO2)

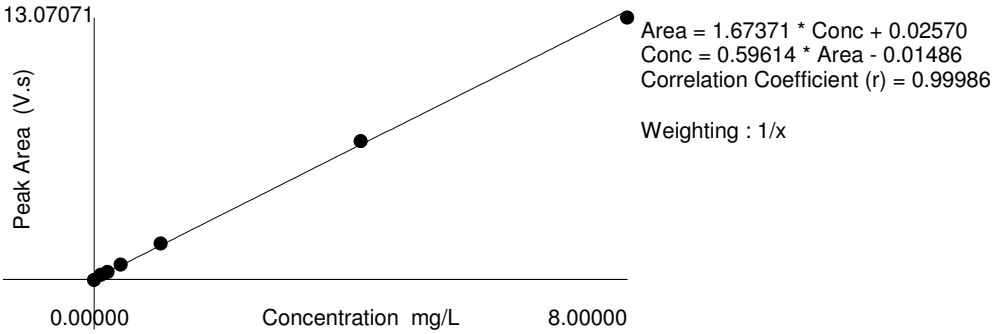
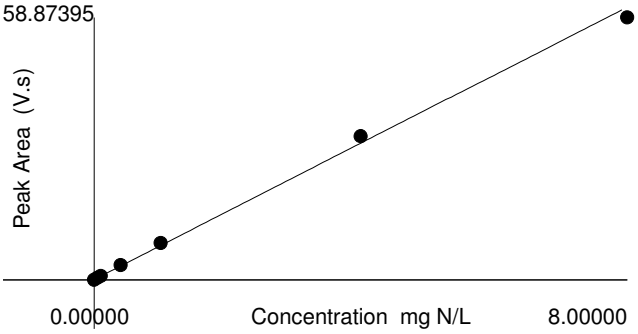


Table : 2 (Nitrite)

	Known Conc. (mg N/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg N/L)	Detection Date	Detection Time
1	8.00000	1	58.87395	4.97182	0.0	3.8	7.67871	3/1/2024	3:35:10 AM
2	4.00000	1	32.20557	2.92996	0.0	-5.1	4.19525	3/1/2024	3:36:27 AM
3	1.00000	1	8.23526	0.75850	0.0	-6.6	1.06422	3/1/2024	3:37:44 AM
4	0.40000	1	3.34609	0.30627	0.0	-6.4	0.42559	3/1/2024	3:39:02 AM
5	0.10000	1	0.90127	0.07887	0.0	-5.6	0.10624	3/1/2024	3:40:20 AM
6	0.05000	1	0.46750	0.04041	0.0	0.9	0.04958	3/1/2024	3:41:39 AM
7	0.00000	1	0.01481	0.00305			-0.00955	3/1/2024	3:42:55 AM

Figure : 2 (Nitrite)



Area = 7.63765 * Conc + 0.08991
Conc = 0.13062 * Area - 0.01148
Correlation Coefficient (r) = 0.99992

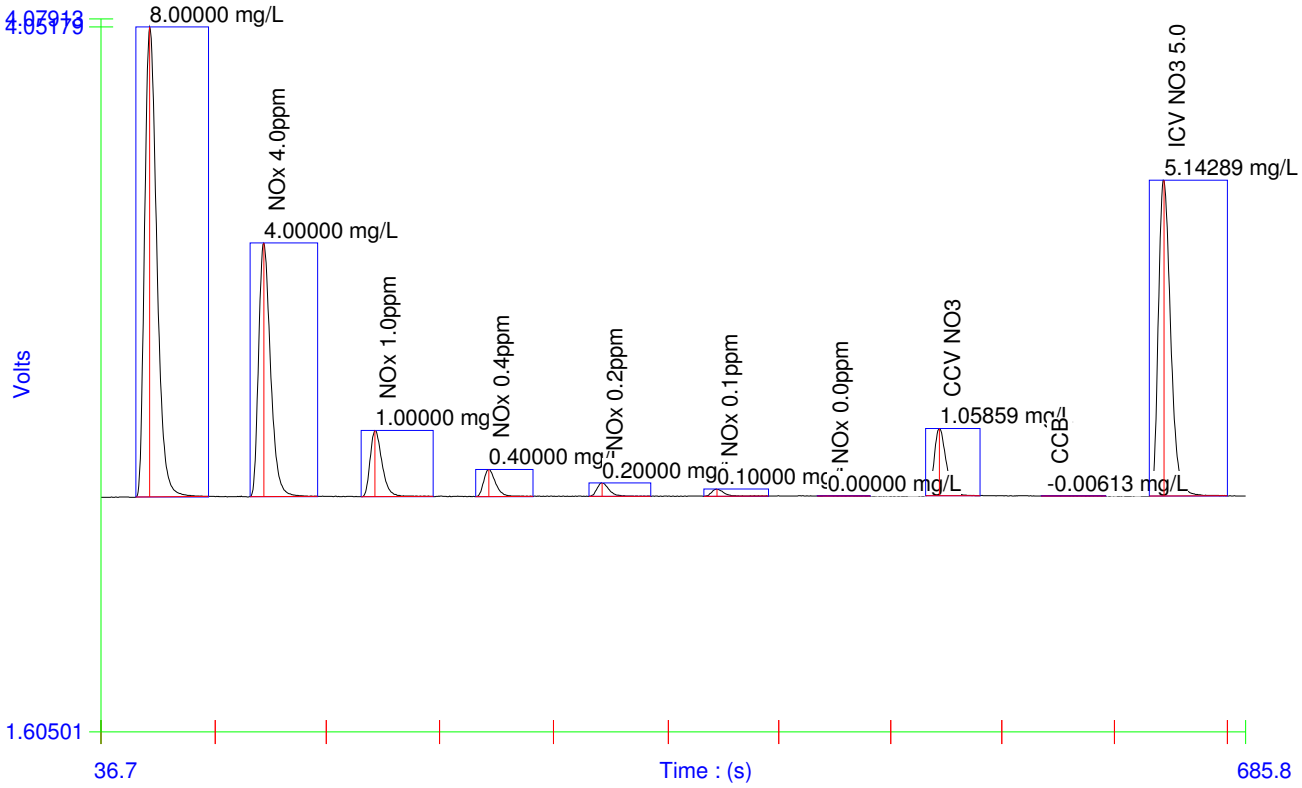
Weighting : 1/x

Original Run Filename: OM_3-5-2024_10-58-48AM.OMN Created: 3/5/2024 10:58:48 AM
Original Run Author's Signature: [A1wetcheminstrument]
Current Run Filename: OM_3-5-2024_10-58-48AM.OMN Last Modified: 3/5/2024 11:47:17 AM
Current Run Author's Signature: [A1wetcheminstrument]
Description: Default New Run

Sample	Rep.	Cup No.	Channel 1 NO3+NO2 (mg/L)	Channel 2 Nitrite (mg N/L)	ADF	MDF	Weight
NOx 8.0ppm	1	S3	8.00000	100.00000			
NOx 4.0ppm	1	S4	4.00000	100.00000			
NOx 1.0ppm	1	S2	1.00000	100.00000			
NOx 0.4ppm	1	S5	0.40000	100.00000			
NOx 0.2ppm	1	S6	0.20000	100.00000			
NOx 0.1ppm	1	S7	0.10000	100.00000			
NOx 0.0ppm	1	S1	0.00000	100.00000			
CCV NO3	1	S2	1.05859	-0.01249			
	Known Conc:		1.00000	0.00000			
	Calibration:		Table/Fig. : 1	Table/Fig. : 2			
CCB	1	S1	-0.00613	-0.01158			
	Known Conc:		0.00000	0.00000			
ICV NO3 5.0	1	1	5.14289	-0.01196			
ICV NO3 0.5	1	3	0.53860	-0.00797			
ICB	1	5	-3.13160e-5	-0.01522			
DILUTER CHK 8PPM	1	6	8.67089	-0.08256	5.00		
L2410597-04A	1	54	2.52686	-0.00071			
L2410597-07A	1	55	2.22488	-0.01231			
L2410726-02A	1	56	2.56427	-0.01311			
L2410933-01G	1	57	0.75987	-0.01117			
L2410933-02G	1	58	0.08663	-0.01172			
L2411102-01J	1	59	1.24966	-0.01324			
CCV NO3	1	S2	0.98541	-0.01313			
	Known Conc:		1.00000	0.00000			
CCB	1	S1	-0.00857	-0.00791			
	Known Conc:		0.00000	0.00000			
L2411102-02J	1	60	1.34591	-0.01733			
L2410579-01Q	1	61	0.06146	-0.01143			
WG1892111-3; DUP CNO3 579-01	1	62	0.05408	-0.01037			
WG1892111-4; MS CNO3 579-01	1	63	3.87651	-0.01007			
L2410579-02Q	1	64	1.50463	-0.01187			
L2410579-03Q	1	65	6.79537	-0.00962			
L2410579-04Q	1	66	0.43085	-0.01227			
L2410579-05Q	1	67	3.37397	-0.01336			
L2410579-06Q	1	68	0.23362	-0.01104			
L2410579-07Q	1	69	4.75981	-0.01037			
CCV NO3	1	S2	0.88664	-0.01062			
	Known Conc:		1.00000	0.00000			
CCB	1	S1	-0.07050	-0.00875			
	Known Conc:		0.00000	0.00000			
L2410579-08Q	1	70	0.25277	-0.01499			
L2410579-09Q	1	71	0.22634	-0.01262			

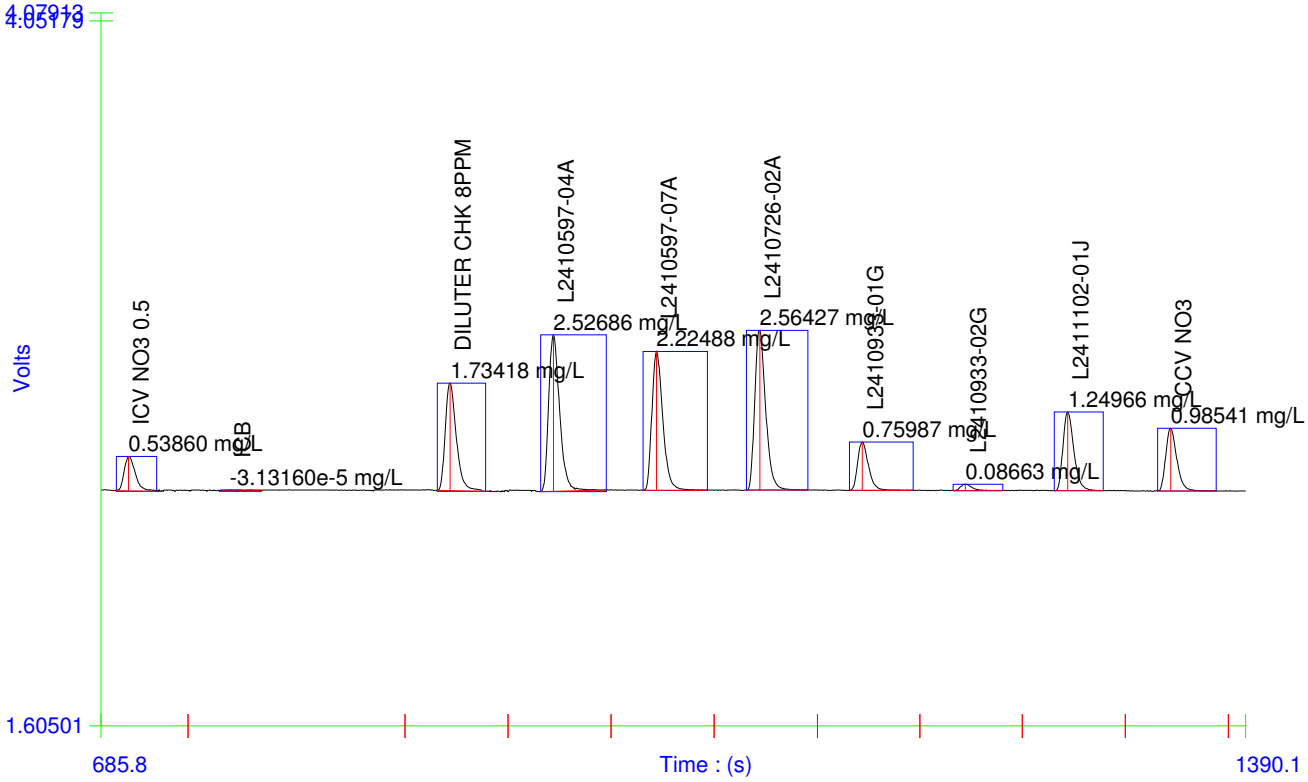
Author: KAF TRAY 2E Date : 240305-6

Channel 1 (NO3+NO2) - Set: 1 / 4



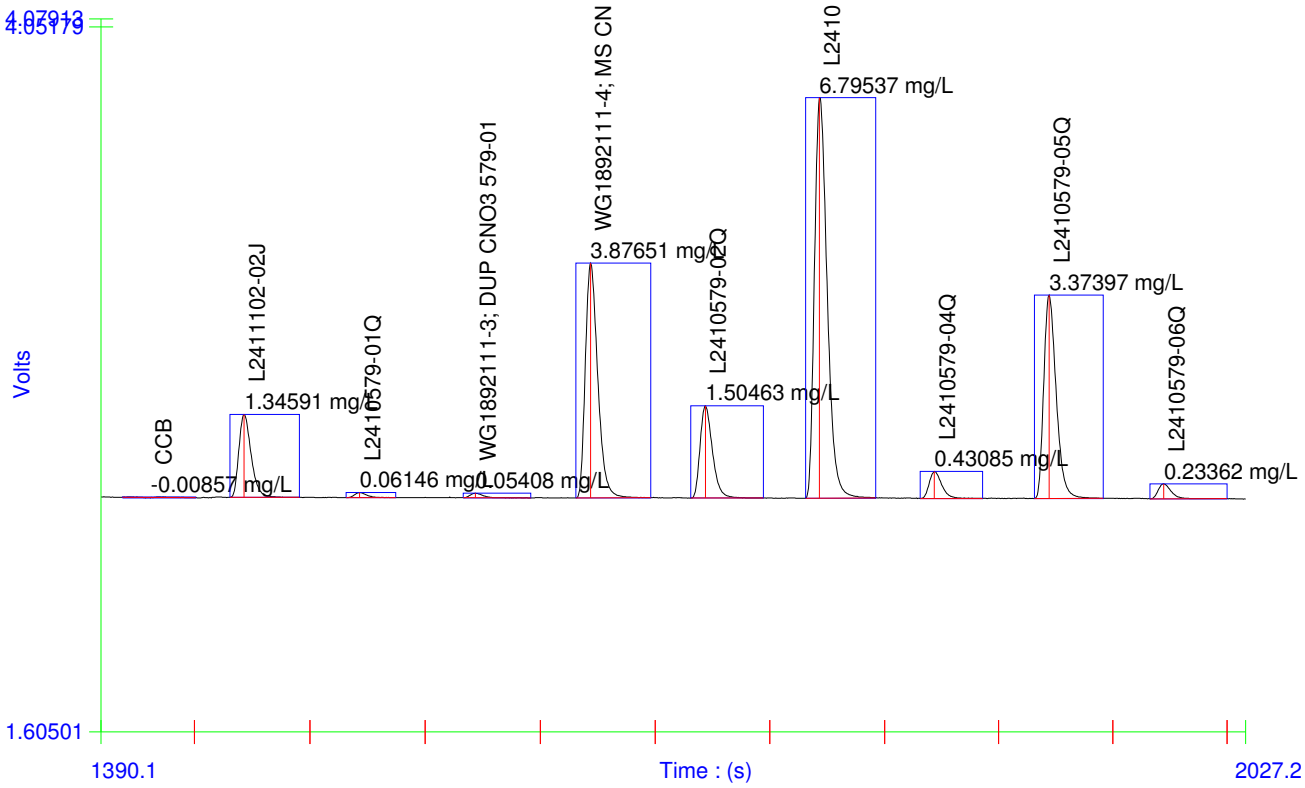
Author: KAF TRAY 2E Date : 240305-6

Channel 1 (NO3+NO2) - Set: 2 / 4

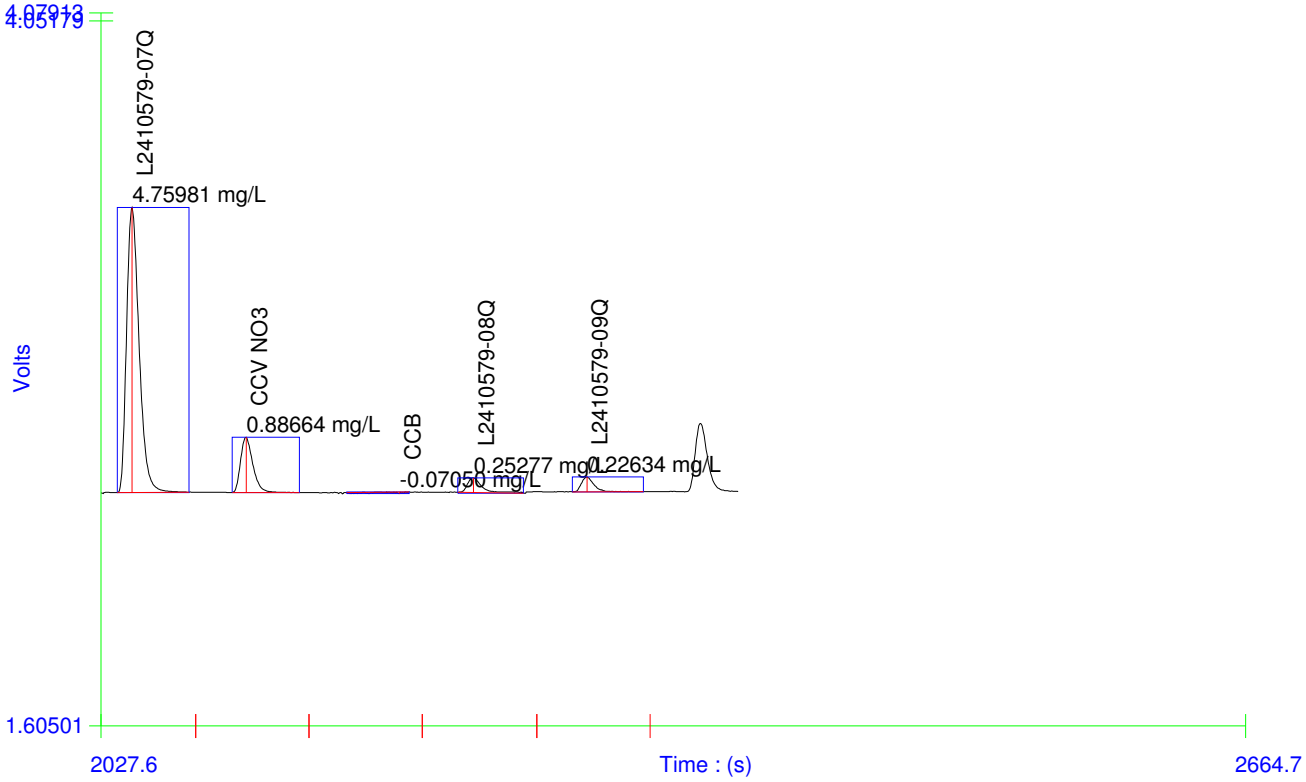


Author: KAF TRAY 2E Date : 240305-6

Channel 1 (NO3+NO2) - Set: 3 / 4

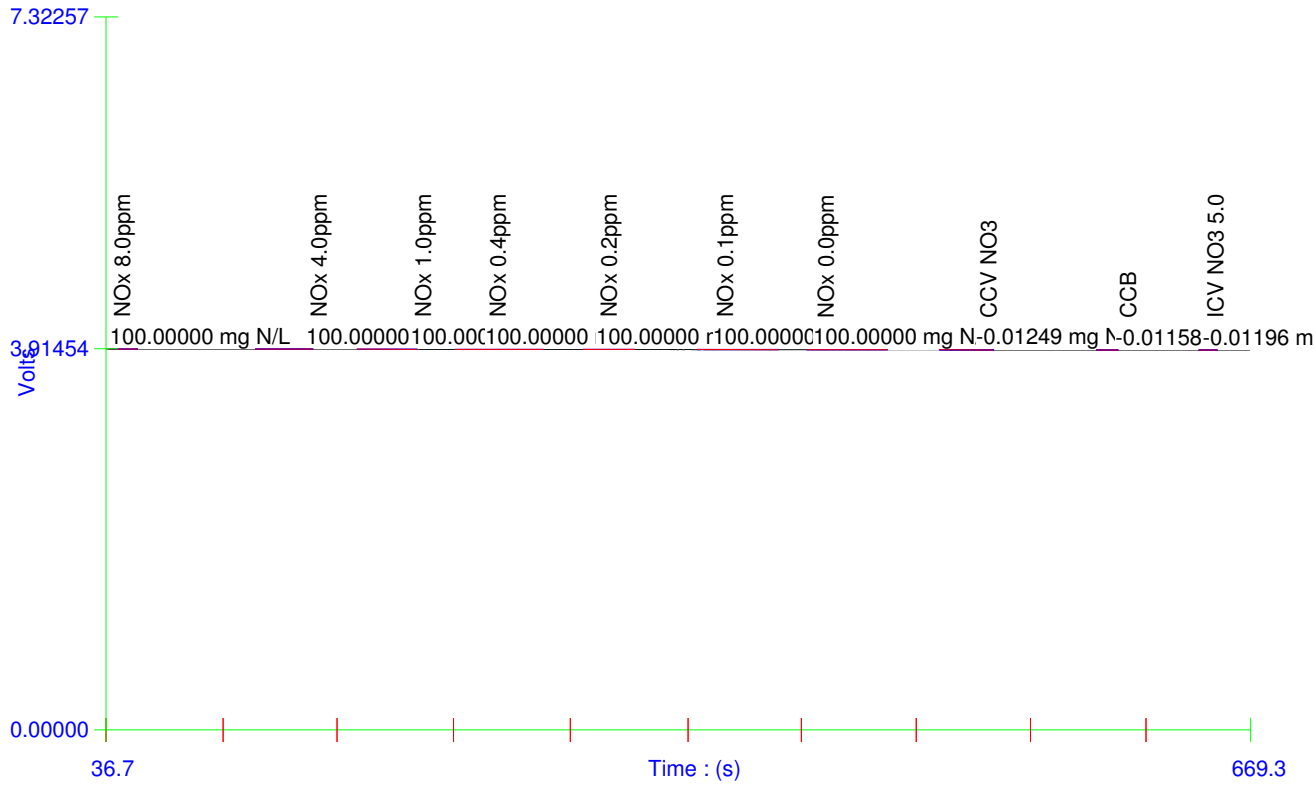


Channel 1 (NO3+NO2) - Set: 4 / 4



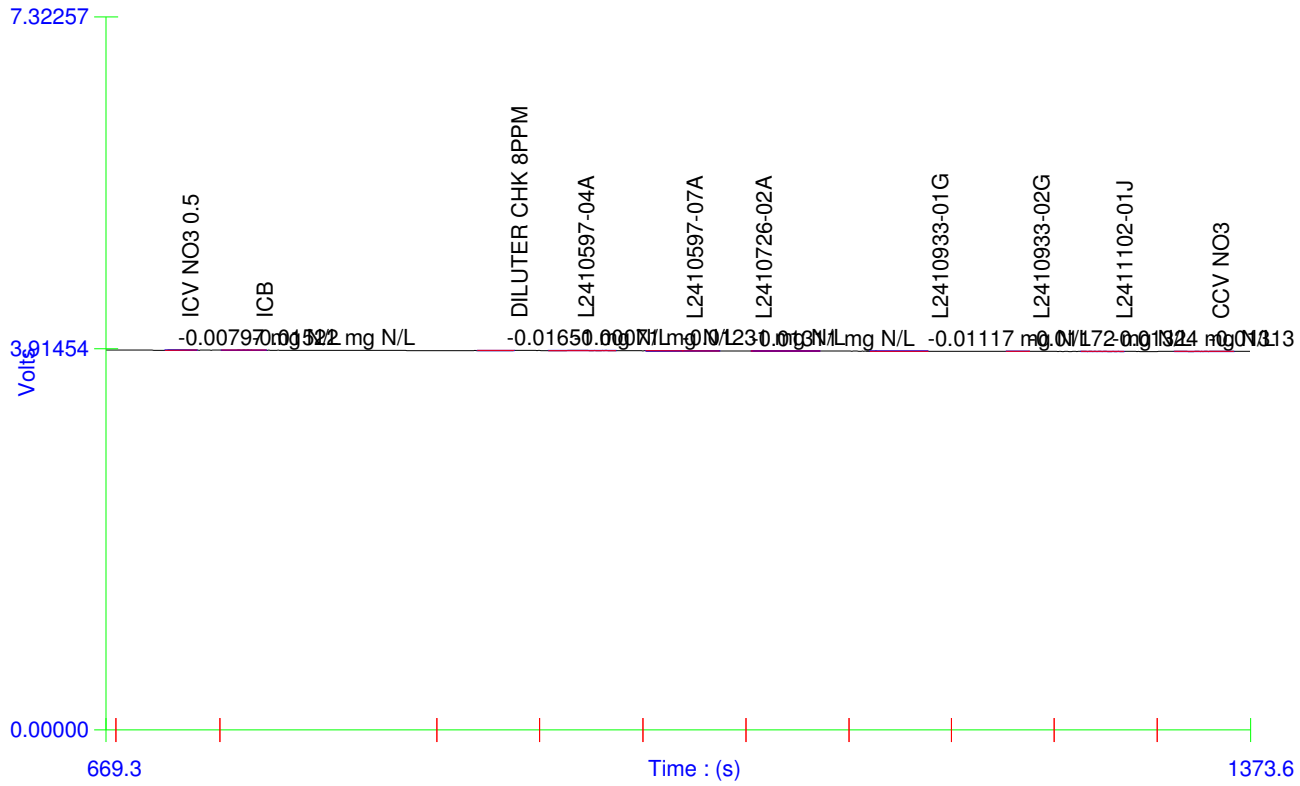
Author: KAF TRAY 2E Date : 240305-6

Channel 2 (NO2) - Set: 1 / 4



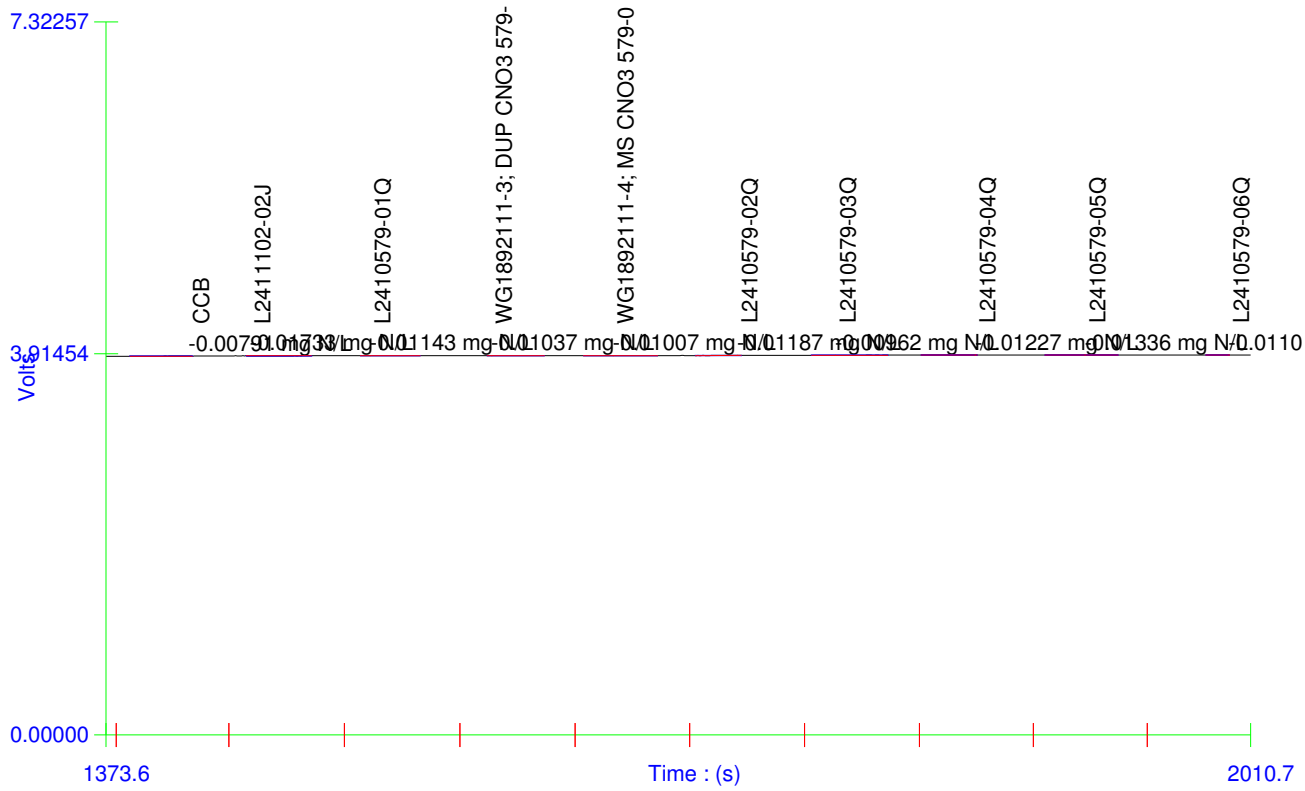
Author: KAF TRAY 2E Date : 240305-6

Channel 2 (NO2) - Set: 2 / 4



Author: KAF TRAY 2E Date : 240305-6

Channel 2 (NO2) - Set: 3 / 4



Channel 2 (NO2) - Set: 4 / 4

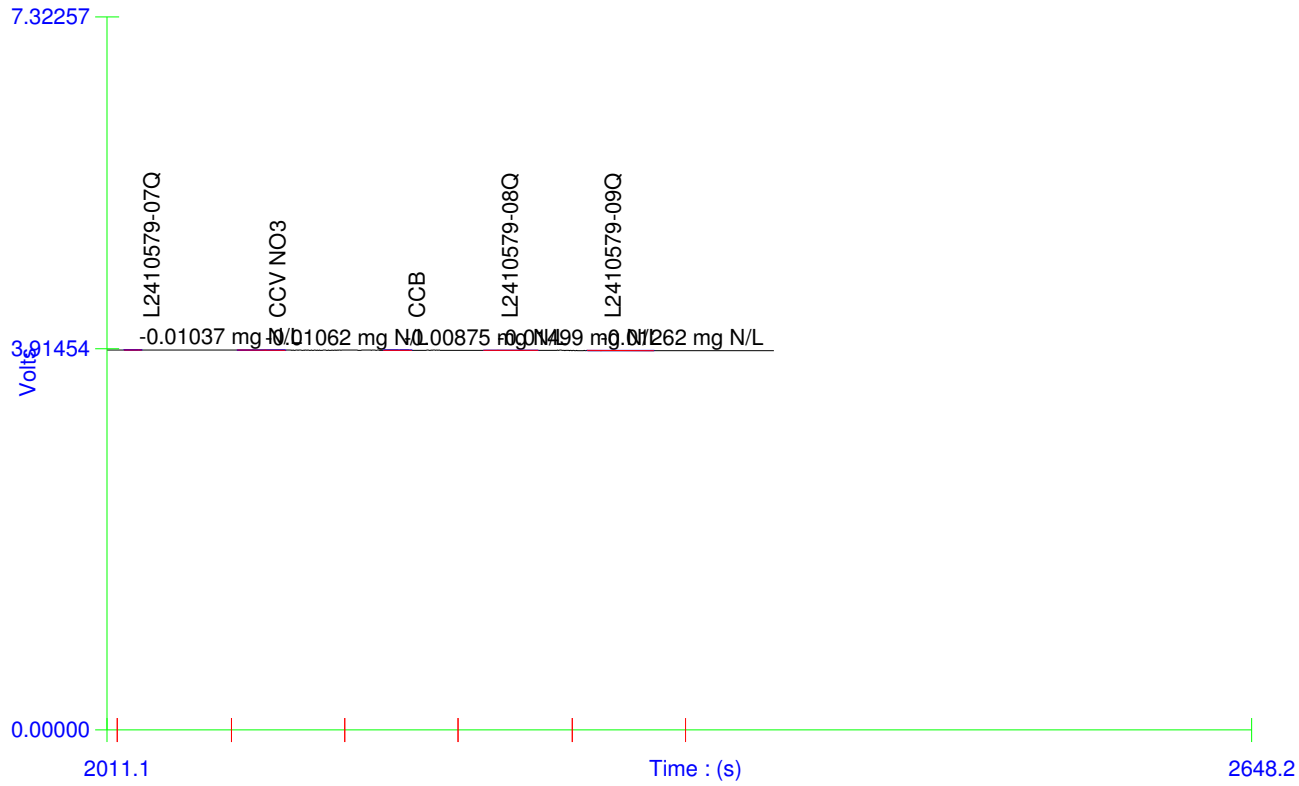


Table : 1 (NO3+NO2)

	Known Conc. (mg/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg/L)	Detection Date	Detection Time
1	8.00000	1	13.05285	1.63132	0.0	2.2	7.81417	3/5/2024	10:59:47 AM
2	4.00000	1	6.86822	0.88016	0.0	-2.6	4.10031	3/5/2024	11:01:05 AM
3	1.00000	1	1.79464	0.22923	0.0	-5.3	1.05363	3/5/2024	11:02:22 AM
4	0.40000	1	0.73539	0.09412	0.0	-4.2	0.41756	3/5/2024	11:03:40 AM
5	0.20000	1	0.37776	0.04719	0.0	-1.2	0.20280	3/5/2024	11:04:59 AM
6	0.10000	1	0.20620	0.02488	0.0	0.3	0.09978	3/5/2024	11:06:18 AM
7	0.00000	1	0.02153	0.00179			-0.01111	3/5/2024	11:07:34 AM

Figure : 1 (NO3+NO2)

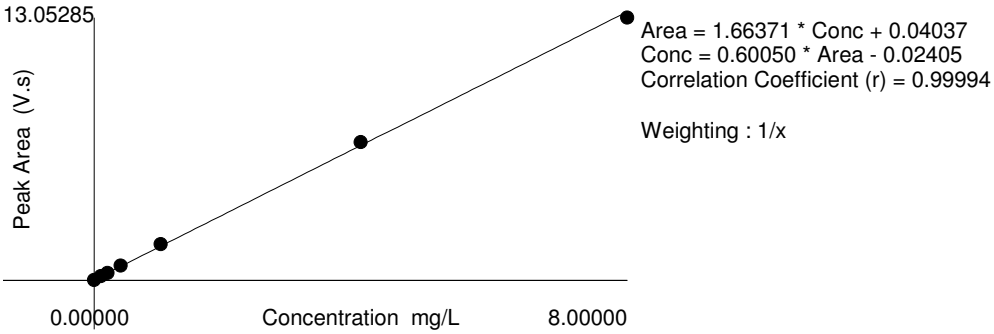
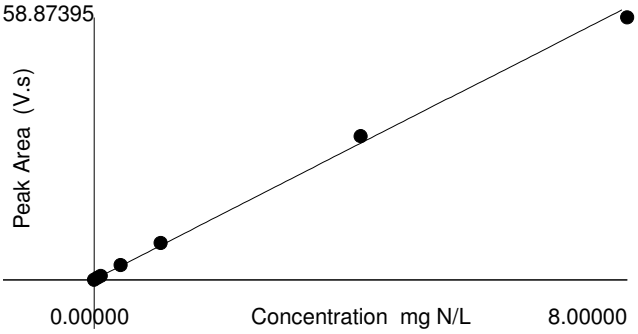


Table : 2 (Nitrite)

	Known Conc. (mg N/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg N/L)	Detection Date	Detection Time
1	8.00000	1	58.87395	4.97182	0.0	3.8	7.67871	3/1/2024	3:35:10 AM
2	4.00000	1	32.20557	2.92996	0.0	-5.1	4.19525	3/1/2024	3:36:27 AM
3	1.00000	1	8.23526	0.75850	0.0	-6.6	1.06422	3/1/2024	3:37:44 AM
4	0.40000	1	3.34609	0.30627	0.0	-6.4	0.42559	3/1/2024	3:39:02 AM
5	0.10000	1	0.90127	0.07887	0.0	-5.6	0.10624	3/1/2024	3:40:20 AM
6	0.05000	1	0.46750	0.04041	0.0	0.9	0.04958	3/1/2024	3:41:39 AM
7	0.00000	1	0.01481	0.00305			-0.00955	3/1/2024	3:42:55 AM

Figure : 2 (Nitrite)



Area = 7.63765 * Conc + 0.08991
Conc = 0.13062 * Area - 0.01148
Correlation Coefficient (r) = 0.99992

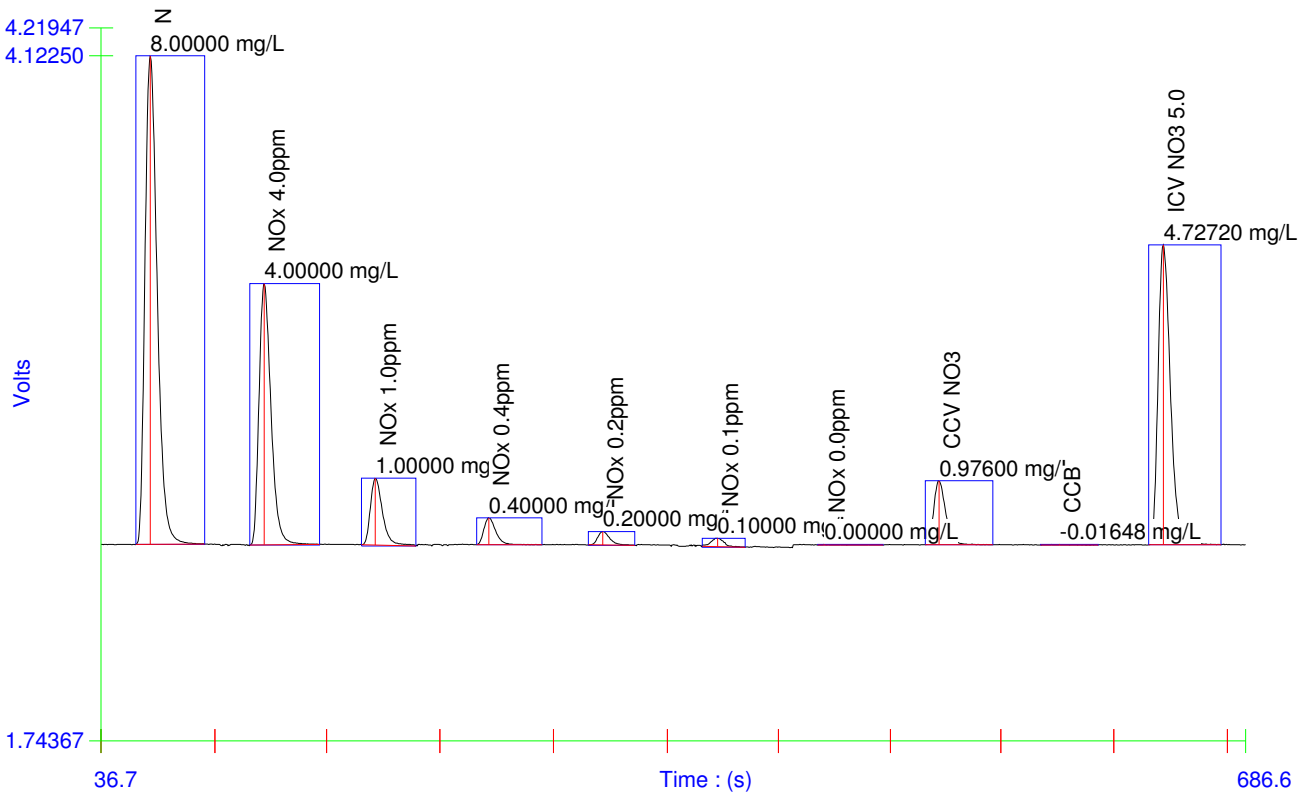
Weighting : 1/x

Original Run Filename: OM_3-5-2024_12-07-35PM.OMN Created: 3/5/2024 12:07:35 PM
Original Run Author's Signature: [A1wetcheminstrument]
Current Run Filename: OM_3-5-2024_12-07-35PM.OMN Last Modified: 3/5/2024 12:40:00 PM
Current Run Author's Signature: [A1wetcheminstrument]
Description: Default New Run

Sample	Rep.	Cup No.	Channel 1 NO3+NO2 (mg/L)	Channel 2 Nitrite (mg N/L)	ADF	MDF	Weight
NOx 8.0ppm	1	S3	8.00000	100.00000			
NOx 4.0ppm	1	S4	4.00000	100.00000			
NOx 1.0ppm	1	S2	1.00000	100.00000			
NOx 0.4ppm	1	S5	0.40000	100.00000			
NOx 0.2ppm	1	S6	0.20000	100.00000			
NOx 0.1ppm	1	S7	0.10000	100.00000			
NOx 0.0ppm	1	S1	0.00000	100.00000			
CCV NO3	1	S2	0.97600	-0.01121			
	Known Conc:		1.00000	0.00000			
	Calibration:		Table/Fig. : 1	Table/Fig. : 2			
CCB	1	S1	-0.01648	-0.01262			
	Known Conc:		0.00000	0.00000			
ICV NO3 5.0	1	1	4.72720	-0.01177			
ICV NO3 0.5	1	3	0.47241	-0.01144			
ICB	1	5	-0.01007	-0.01180			
DILUTER CHK 8PPM	1	6	7.62782	-0.05891	5.00		
L2411102-02J	1	60	1.33181	-0.00890			
CCV NO3	1	S2	0.94133	-0.00984			
	Known Conc:		1.00000	0.00000			
CCB	1	S1	-0.00963	-0.01276			
	Known Conc:		0.00000	0.00000			
L2410579-01Q	1	61	0.08049	-0.00779			
WG1892111-3; DUP CNO3 579-01	1	62	0.04452	-0.00863			
WG1892111-4; MS CNO3 579-01	1	63	3.90580	-0.00883			
L2410579-02Q	1	64	1.50865	-0.01149			
L2410579-03Q	1	65	6.87812	-0.01073			
CCV NO3	1	S2	0.92035	-0.01149			
	Known Conc:		1.00000	0.00000			
CCB	1	S1	-0.01718	-0.01283			
	Known Conc:		0.00000	0.00000			

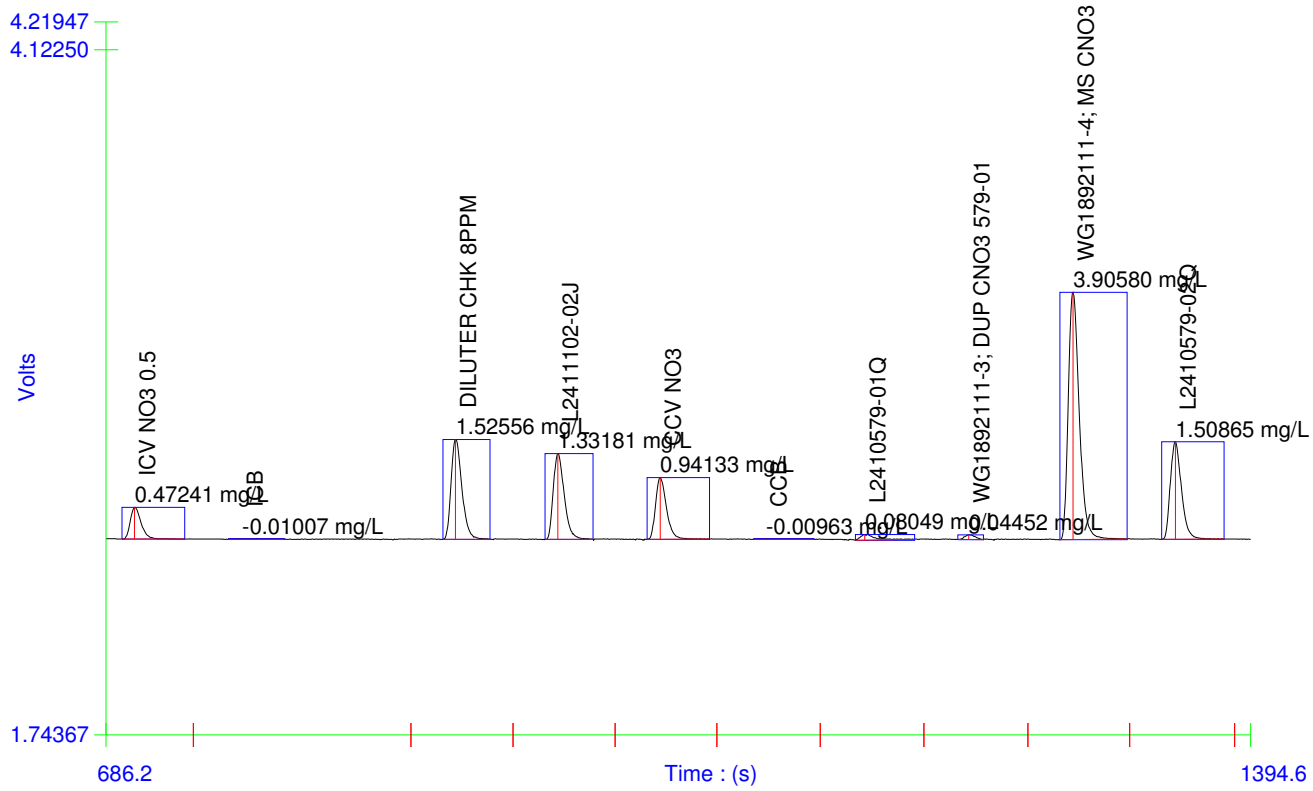
Author: KAF TRAY 2F Date : 240305-7

Channel 1 (NO3+NO2) - Set: 1 / 3



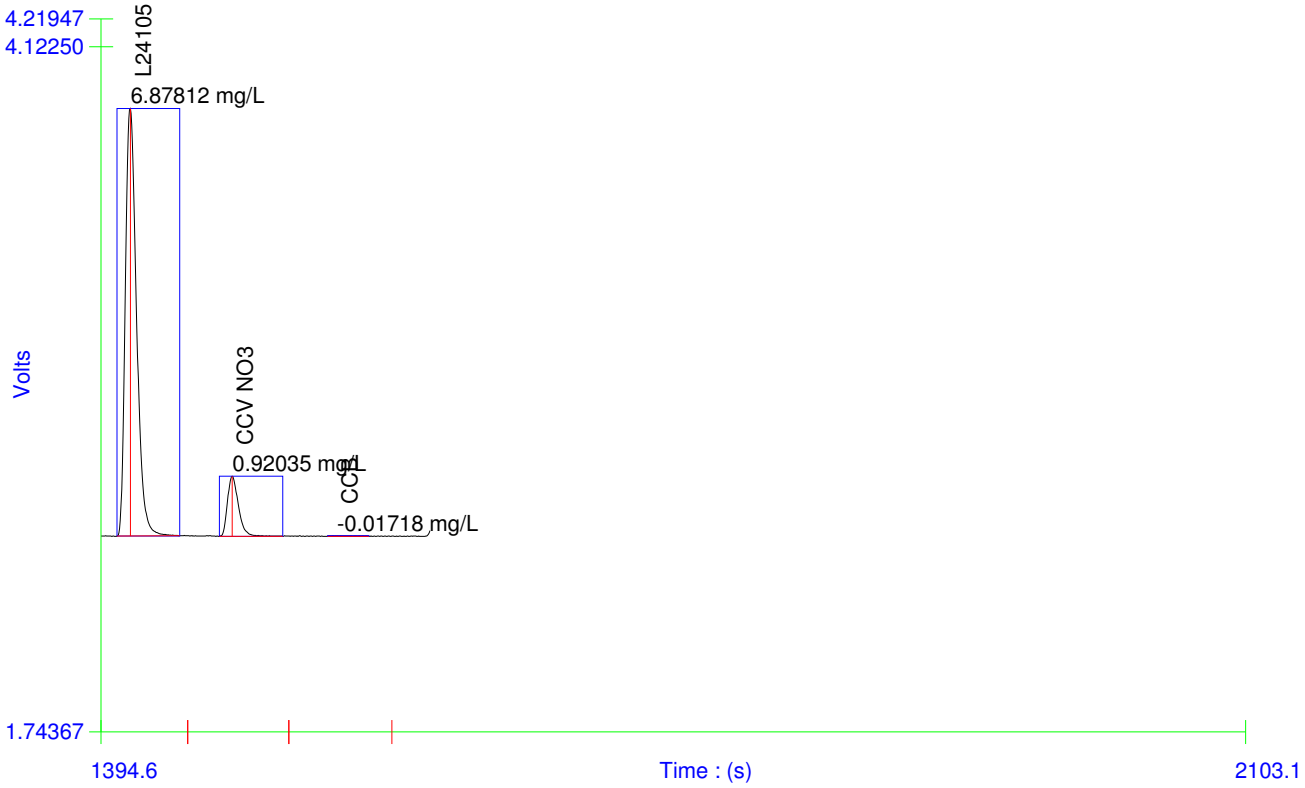
Author: KAF TRAY 2F Date : 240305-7

Channel 1 (NO3+NO2) - Set: 2 / 3



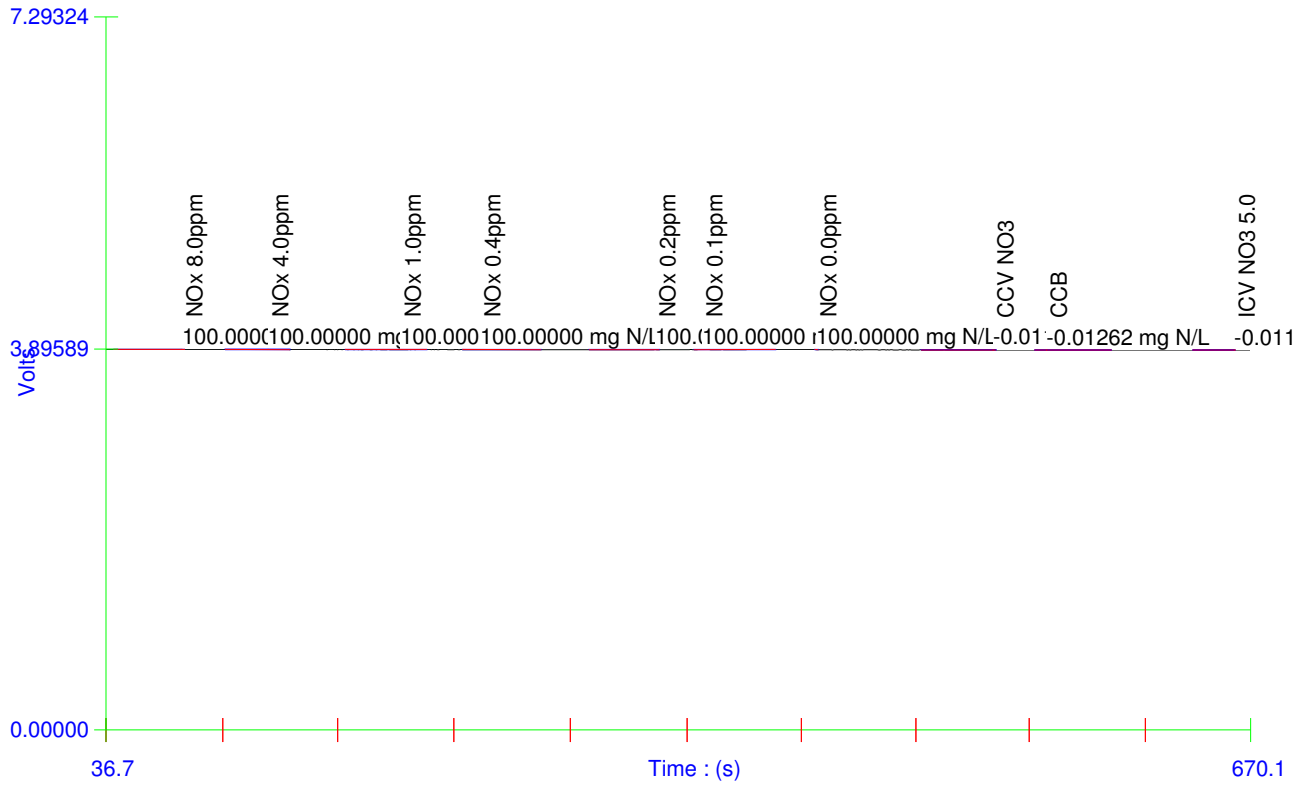
Author: KAF TRAY 2F Date : 240305-7

Channel 1 (NO3+NO2) - Set: 3 / 3



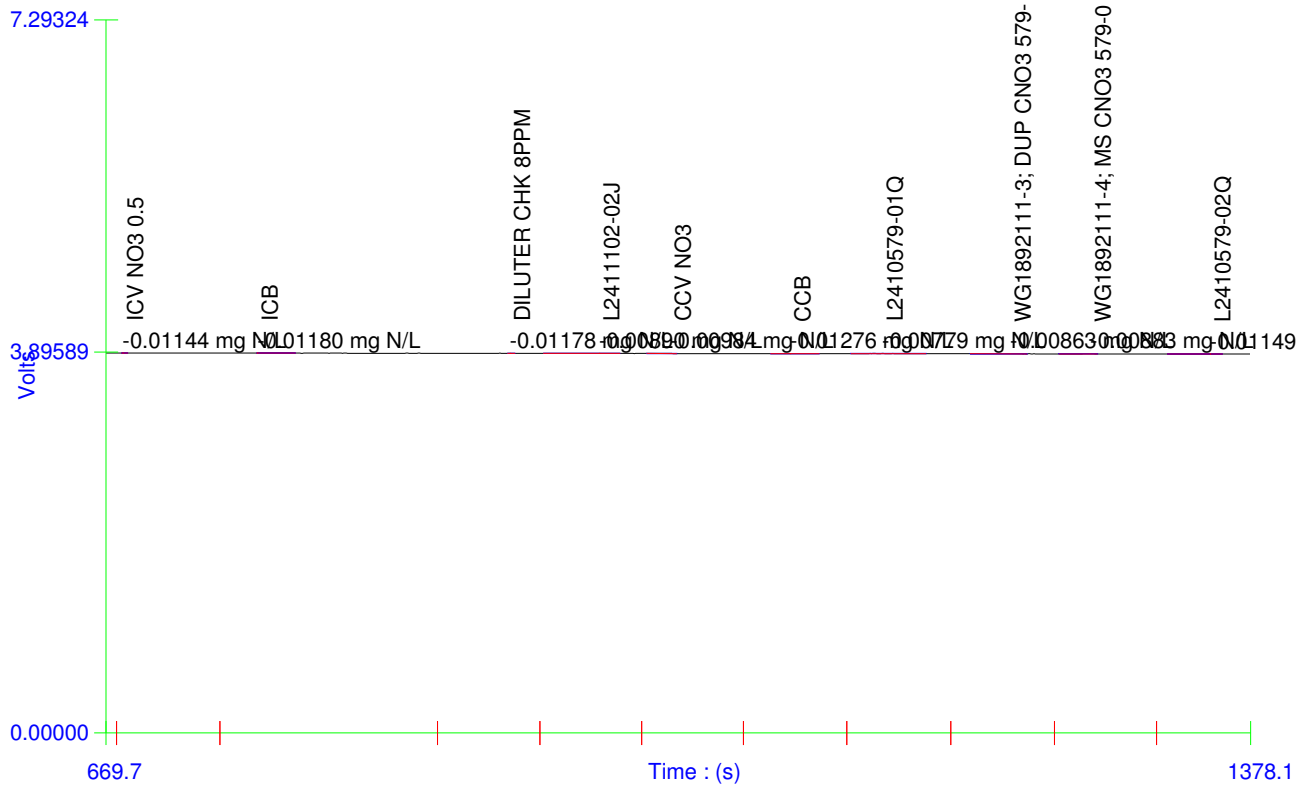
Author: KAF TRAY 2F Date : 240305-7

Channel 2 (NO2) - Set: 1 / 3



Author: KAF TRAY 2F Date : 240305-7

Channel 2 (NO2) - Set: 2 / 3



Channel 2 (NO2) - Set: 3 / 3

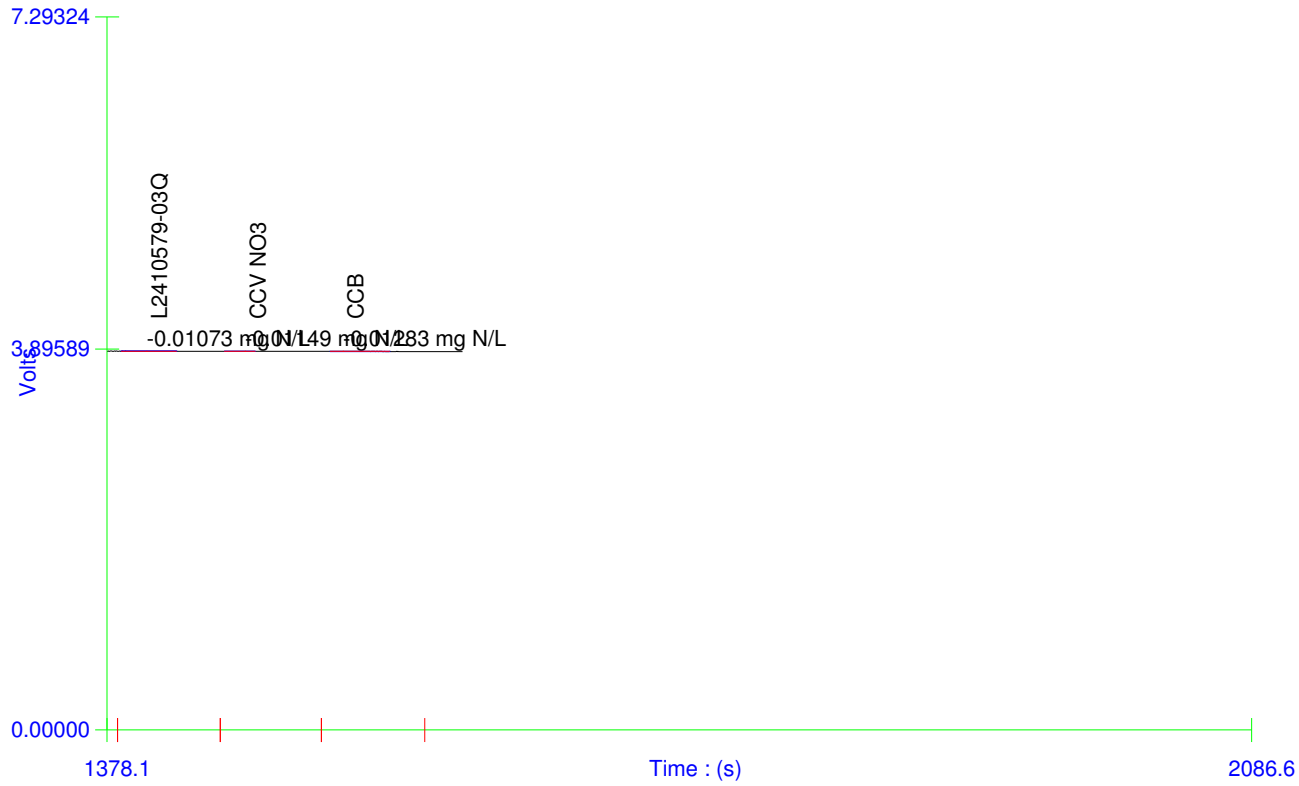
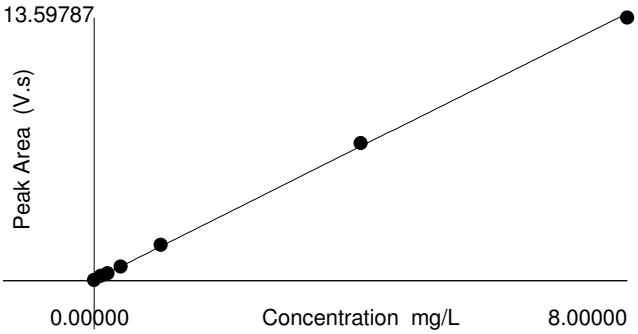


Table : 1 (NO3+NO2)

	Known Conc. (mg/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg/L)	Detection Date	Detection Time
1	8.00000	1	13.59787	1.69613	0.0	1.6	7.86231	3/5/2024	12:08:23 PM
2	4.00000	1	7.10126	0.90704	0.0	-2.4	4.09211	3/5/2024	12:09:41 PM
3	1.00000	1	1.84659	0.23127	0.0	-4.2	1.04265	3/5/2024	12:10:58 PM
4	0.40000	1	0.72677	0.09296	0.0	1.6	0.39278	3/5/2024	12:12:16 PM
5	0.20000	1	0.37274	0.04674	0.0	5.5	0.18732	3/5/2024	12:13:35 PM
6	0.10000	1	0.24462	0.02915	0.0	-10.0	0.11297	3/5/2024	12:14:53 PM
7	0.00000	1	0.03328	0.00190			-0.00967	3/5/2024	12:16:10 PM

Figure : 1 (NO3+NO2)



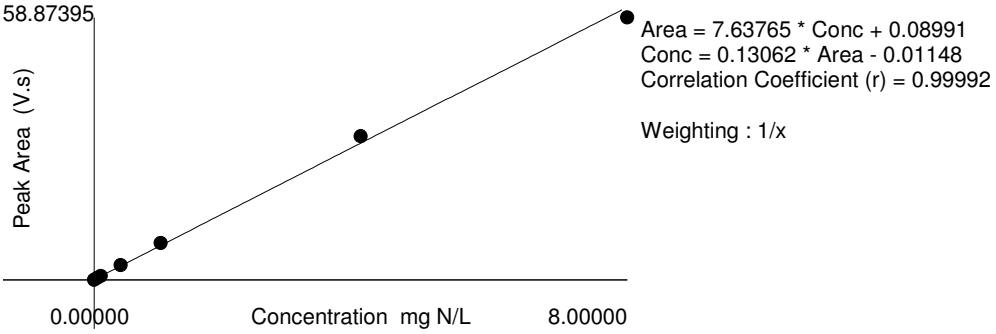
Area = 1.72178 * Conc + 0.05023
Conc = 0.58033 * Area - 0.02899
Correlation Coefficient (r) = 0.99995

Weighting : 1/x

Table : 2 (Nitrite)

	Known Conc. (mg N/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg N/L)	Detection Date	Detection Time
1	8.00000	1	58.87395	4.97182	0.0	3.8	7.67871	3/1/2024	3:35:10 AM
2	4.00000	1	32.20557	2.92996	0.0	-5.1	4.19525	3/1/2024	3:36:27 AM
3	1.00000	1	8.23526	0.75850	0.0	-6.6	1.06422	3/1/2024	3:37:44 AM
4	0.40000	1	3.34609	0.30627	0.0	-6.4	0.42559	3/1/2024	3:39:02 AM
5	0.10000	1	0.90127	0.07887	0.0	-5.6	0.10624	3/1/2024	3:40:20 AM
6	0.05000	1	0.46750	0.04041	0.0	0.9	0.04958	3/1/2024	3:41:39 AM
7	0.00000	1	0.01481	0.00305			-0.00955	3/1/2024	3:42:55 AM

Figure : 2 (Nitrite)

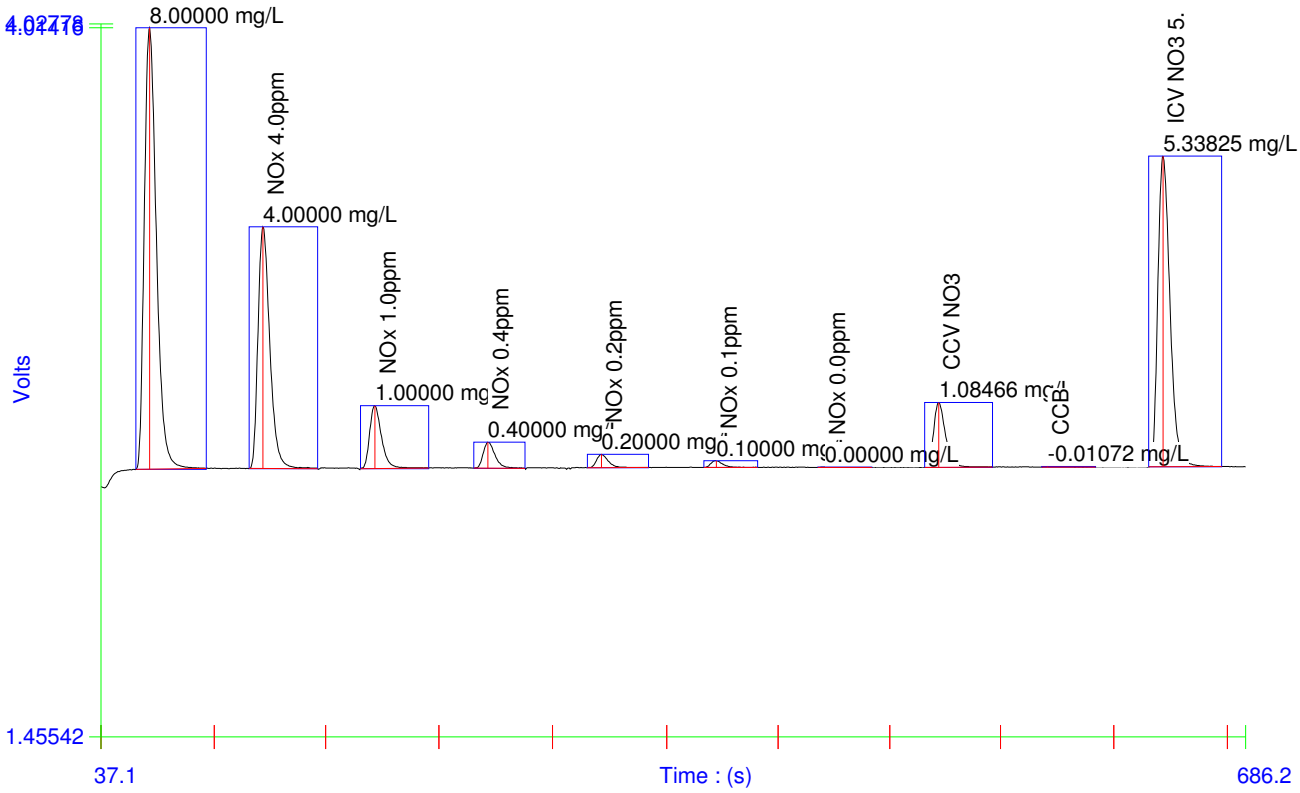


Original Run Filename: OM_3-5-2024_12-42-49PM.OMN Created: 3/5/2024 12:42:49 PM
Original Run Author's Signature: [A1wetcheminstrument]
Current Run Filename: OM_3-5-2024_12-42-49PM.OMN Last Modified: 3/5/2024 1:12:25 PM
Current Run Author's Signature: [A1wetcheminstrument]
Description: Default New Run

Sample	Rep.	Cup No.	Channel 1 NO3+NO2 (mg/L)	Channel 2 Nitrite (mg N/L)	ADF	MDF	Weight
NOx 8.0ppm	1	S3	8.00000	100.00000			
NOx 4.0ppm	1	S4	4.00000	100.00000			
NOx 1.0ppm	1	S2	1.00000	100.00000			
NOx 0.4ppm	1	S5	0.40000	100.00000			
NOx 0.2ppm	1	S6	0.20000	100.00000			
NOx 0.1ppm	1	S7	0.10000	100.00000			
NOx 0.0ppm	1	S1	0.00000	100.00000			
CCV NO3	1	S2	1.08466	-0.01205			
	Known Conc:		1.00000	0.00000			
	Calibration:		Table/Fig. : 1	Table/Fig. : 2			
CCB	1	S1	-0.01072	-0.01267			
	Known Conc:		0.00000	0.00000			
ICV NO3 5.0	1	1	5.33825	-0.01263			
ICV NO3 0.5	1	3	0.53696	-0.01145			
ICB	1	5	-0.00748	-0.01251			
L2410579-04Q	1	66	0.52148	-0.01227			
L2410579-05Q	1	67	4.13432	-0.01141			
L2410579-06Q	1	68	0.28849	-0.01135			
L2410579-07Q	1	69	5.80824	-0.01210			
L2410579-08Q	1	70	0.26626	-0.01049			
L2410579-09Q	1	71	0.26248	-0.01083			
L2410666-01A	1	72	1.28942	-0.01143			
CCV NO3	1	S2	1.05610	-0.01237			
	Known Conc:		1.00000	0.00000			
CCB	1	S1	-0.00714	-0.01146			
	Known Conc:		0.00000	0.00000			

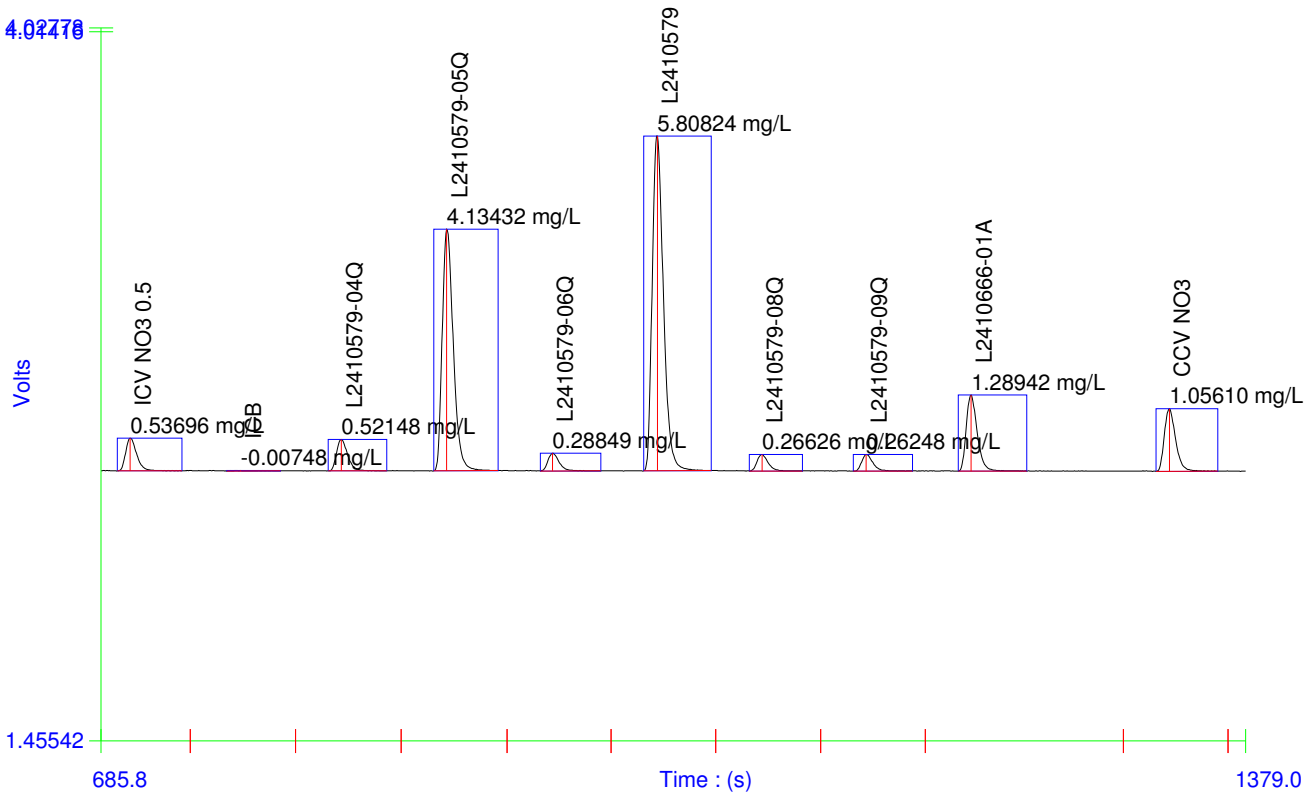
Author: KAF TRAY 2G Date : 240305-8

Channel 1 (NO3+NO2) - Set: 1 / 3

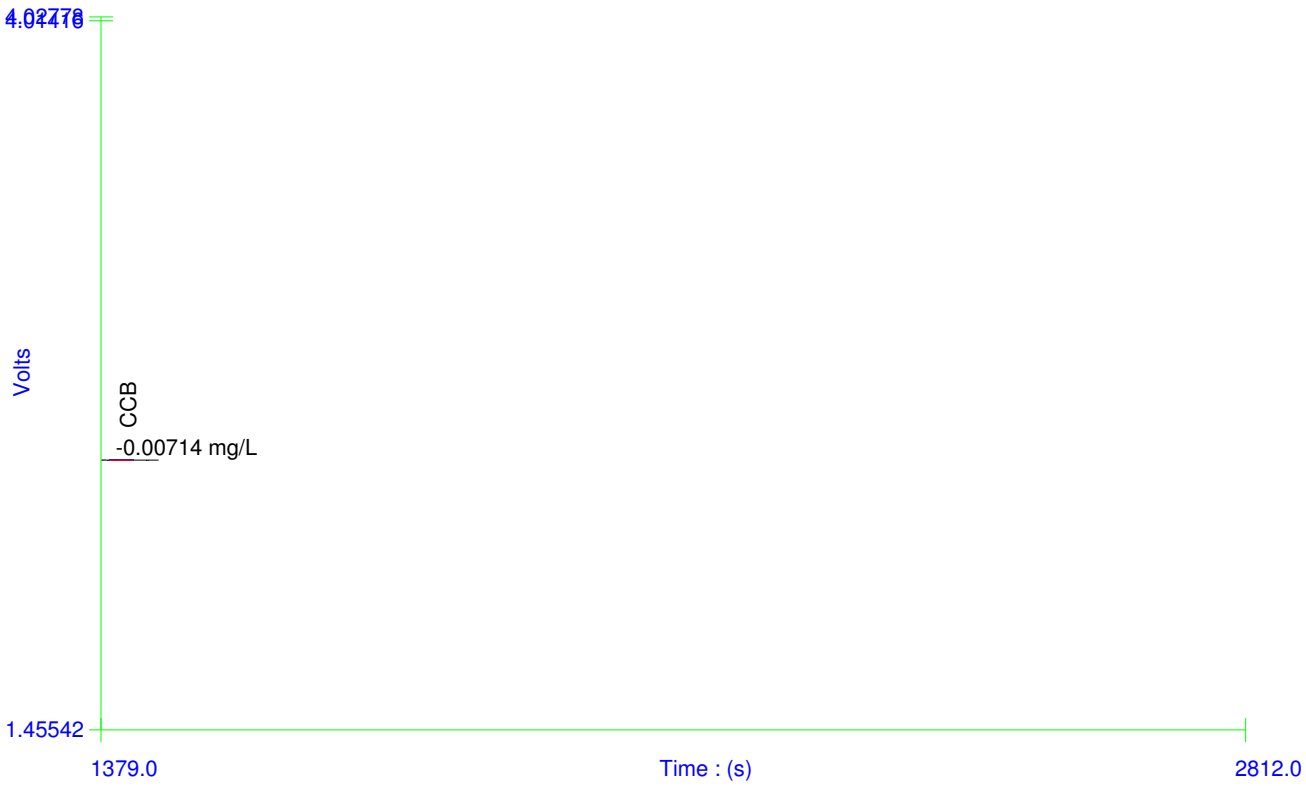


Author: KAF TRAY 2G Date : 240305-8

Channel 1 (NO3+NO2) - Set: 2 / 3

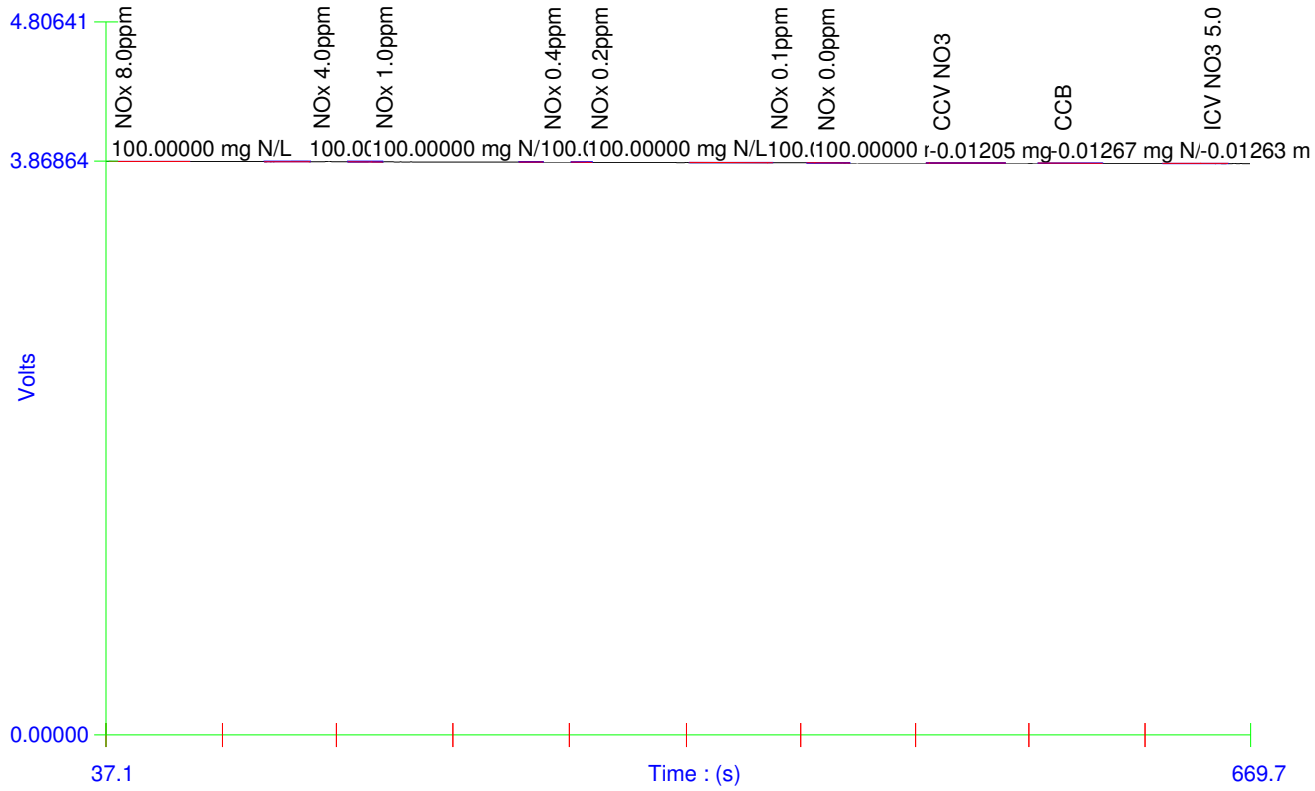


Channel 1 (NO3+NO2) - Set: 3 / 3



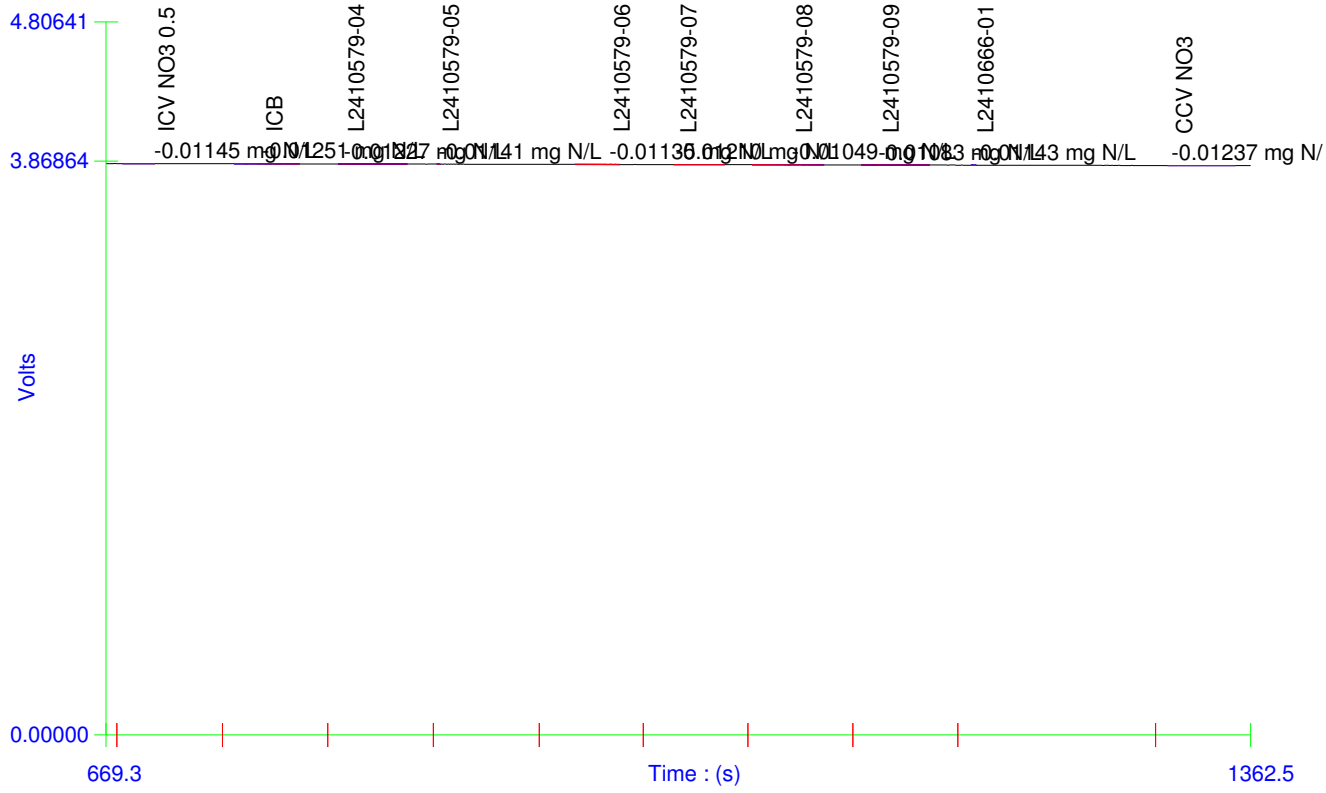
Author: KAF TRAY 2G Date : 240305-8

Channel 2 (NO2) - Set: 1 / 3



Author: KAF TRAY 2G Date : 240305-8

Channel 2 (NO2) - Set: 2 / 3



Channel 2 (NO2) - Set: 3 / 3

Table : 1 (NO3+NO2)

	Known Conc. (mg/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg/L)	Detection Date	Detection Time
1	8.00000	1	12.60738	1.59274	0.0	3.1	7.73987	3/5/2024	12:43:47 PM
2	4.00000	1	6.76106	0.87248	0.0	-3.6	4.13952	3/5/2024	12:45:06 PM
3	1.00000	1	1.78107	0.22705	0.0	-7.2	1.07269	3/5/2024	12:46:22 PM
4	0.40000	1	0.73335	0.09400	0.0	-6.6	0.42747	3/5/2024	12:47:41 PM
5	0.20000	1	0.36637	0.04772	0.0	-0.7	0.20147	3/5/2024	12:48:59 PM
6	0.10000	1	0.19661	0.02491	0.0	2.6	0.09693	3/5/2024	12:50:18 PM
7	0.00000	1	0.01966	0.00158			-0.01204	3/5/2024	12:51:34 PM

Figure : 1 (NO3+NO2)

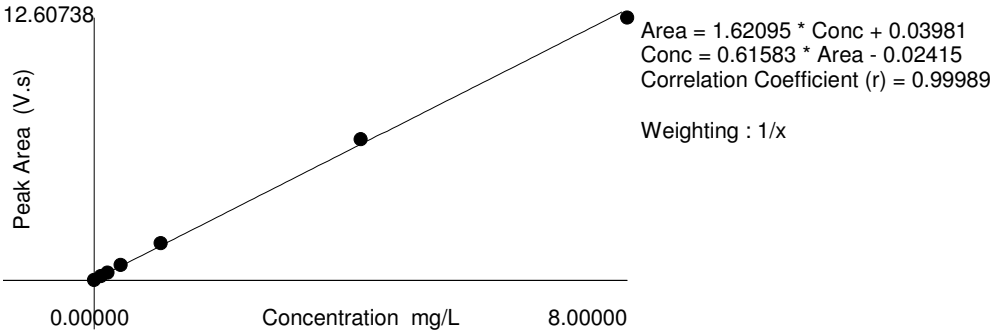
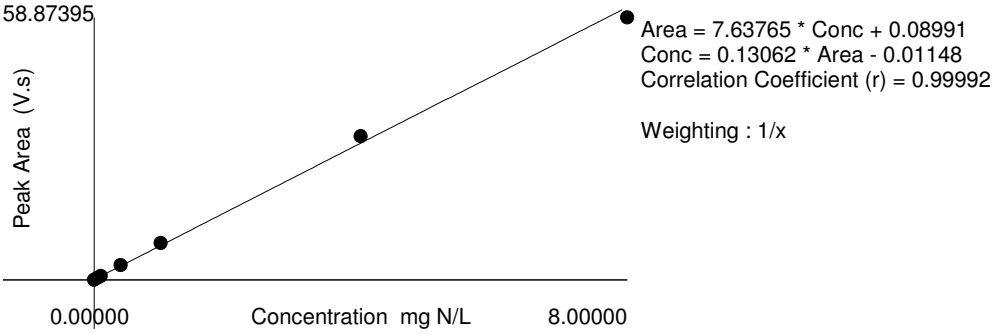


Table : 2 (Nitrite)

	Known Conc. (mg N/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg N/L)	Detection Date	Detection Time
1	8.00000	1	58.87395	4.97182	0.0	3.8	7.67871	3/1/2024	3:35:10 AM
2	4.00000	1	32.20557	2.92996	0.0	-5.1	4.19525	3/1/2024	3:36:27 AM
3	1.00000	1	8.23526	0.75850	0.0	-6.6	1.06422	3/1/2024	3:37:44 AM
4	0.40000	1	3.34609	0.30627	0.0	-6.4	0.42559	3/1/2024	3:39:02 AM
5	0.10000	1	0.90127	0.07887	0.0	-5.6	0.10624	3/1/2024	3:40:20 AM
6	0.05000	1	0.46750	0.04041	0.0	0.9	0.04958	3/1/2024	3:41:39 AM
7	0.00000	1	0.01481	0.00305			-0.00955	3/1/2024	3:42:55 AM

Figure : 2 (Nitrite)



Quality Control

Form 5a
Matrix Spike

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Client Sample ID	: MW-1S	**Matrix**	: WATER
Lab Sample ID	: L2410579-01		
Matrix Spike	: WG1892111-4	**MS Analysis Date**	: 03/05/24 12:33
Matrix Spike Dup	:	**MSD Analysis Date**	:

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	Sample Conc. (mg/l)	Spike Added (mg/l)	Spike Conc. (mg/l)	%R	Spike Added (mg/l)	Spike Conc. (mg/l)	%R	RPD	Recovery Limits	RPD Limit
Nitrogen, Nitrate/Nitrite	0.080J	4	3.9	98					80-120	20

Form 6
Lab Duplicates

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Client Sample ID	: MW-1S	**Matrix**	: WATER
Lab Sample ID	: L2410579-01	**Analysis Date**	: 03/05/24 12:30
Dup Sample ID	: WG1892111-3	**DUP Analysis Date**	: 03/05/24 12:31

Parameter	Sample Concentration (mg/l)	Duplicate Concentration (mg/l)	RPD	RPD Limit
Nitrogen, Nitrate/Nitrite	0.080J	ND	NC	20

Form 7
Laboratory Control Sample

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: WG1892111-2	**LCS Analysis Date**	: 03/05/24 08:47
Dup Sample ID	:	**LCSD Analysis Date**	:

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	**True (mg/l)**	**Found (mg/l)**	**%R**	**True (mg/l)**	**Found (mg/l)**	**%R**	**RPD**	**Recovery Limits**	**RPD Limit**
Nitrogen, Nitrate/Nitrite	**5.00**	**5.10**	**102.**					**90-110**	**20**

Date Created: 11/11/21
Created By: Jason Hebert
File: PM11467-1
Page: 1

WETCHEM (WATER)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Method	Holding Time	Container/Sample Preservation
Nitrogen, Nitrate	14797-55-8	0.1	0.0228	mg/l	90-110		83-113	6	6	353.2	48 hours	1 - Plastic 250ml unpreserved
Nitrogen, Nitrate	14797-55-8	0.1	0.0228	mg/l	90-110		83-113	17	17	4500NO3-F	48 hours	1 - Plastic 250ml unpreserved
Nitrogen, Nitrite	NONE	0.05	0.0143	mg/l	90-110	20	80-120	20	20	353.2	48 hours	1 - Plastic 250ml unpreserved
Nitrogen, Nitrite	NONE	0.05	0.0143	mg/l	90-110	20	80-120	20	20	4500NO3-F	48 hours	1 - Plastic 250ml unpreserved

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

Date Created: 11/11/21
Created By: Jason Hebert
File: PM11468-1
Page: 1

WETCHEM (SOIL)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Method	Holding Time	Container/Sample Preservation
Nitrogen, Nitrate	14797-55-8	1	0.261	mg/kg	90-110	20	80-120	20	20	4500NO3-F	48 hours	1 - Glass 250ml/8oz unpreserved
Nitrogen, Nitrite	NONE	1	0.282	mg/kg	90-110	20	80-120	20	20	4500NO3-F	48 hours	1 - Glass 250ml/8oz unpreserved

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

Calculations of Nitrogen, Nitrate

Aqueous Samples:
Compute sample N in NO3 concentration by comparing sample peak areas with standard curve, as determined by the Lachat instrument software.

Calculate results by using reading on Channel 1 (NO3+NO2) and Channel 2 (NO2)

$$NO3\ mg/I = (NO3+NO2)\ mg/L - (NO2)\ mg/L$$

To compute final results for aqueous samples, multiply the direct reading by the dilution factor (also done using software)

$$(NO3)\text{-}N\ mg/L = mg/L\ direct\ reading \times dilution\ factor$$

Calculations of Nitrogen, Nitrite

Aqueous Samples:
Compute sample N in NO2 concentration by comparing sample peak areas with standard curve, as determined by the Lachat instrument software.

Calculate results by using reading on Channel 2 (NO2)

To compute final results for aqueous samples, multiply the direct reading by the dilution factor (also done using software)

$$(NO2)\text{-}N\ mg/L = mg/L\ direct\ reading \times dilution\ factor$$

Sequence Logs

Date: 030524

Initals: KAF

Syringe Lot: 20230410

Filter Lot: 15904235A

Cup #:	Sample ID:
1	**ICV NO3 5**
2	**ICV NO2 5**
3	**ICV NO3 0.5**
4	**ICV NO2 0.5**
5	**ICB**
6	**5X DILUTER CHECK**
7	**BLANK NO3**
8	**LCS NO3**
9	**BLANK NO2**
10	**LCS NO2**
11	**WG1892106-1; NO2**
12	**WG1892106-2; NO2**
13	**WG1892107-1; NO3**
14	**WG1892107-2; NO3**
15	**WG1892108-1; NO3**
16	**WG1892108-2; NO3**
17	**WG1892109-1; NO3**
18	**WG1892109-2; NO3**
19	**WG1892110/111-1; CNO3**
20	**WG1892110/111-2; CNO3**
21	**L2411602-01**
22	**L2411604-01**
23	**L2411608-01**
24	**WG1892107-3; NO3**
25	**WG1892107-4; NO3**
26	**WG1892106-3; NO2**
27	**WG1892106-4; NO2**
28	**L2411612-07**
29	**L2411612-08**
30	**L2411612-09**
31	**L2411596-01**
32	**WG1892108-3; NO3**
33	**WG1892108-4; NO3**
34	**L2411596-02**
35	**L2411372-14**
36	**L2411372-15**
37	**L2411372-16**
38	**L2411372-17**
39	**L2411372-18**
40	**L2411378-01**
41	**l2411370-01a**
42	**l2411370-02a**
43	**L2411349-02**

Comments:

Buffer: NO3NO2_030524_BUFFER

Color: NO3NO2_030524_COLOR

NO3 MS: NO3_022824_200PPM_CAL

NO2 MS: NO2_021024_200PPM_CAL

ICV NO3 5: NO3_022924_5PPM_ICV

ICV NO2 5: NO2_022924_5PPM_ICV

ICV NO3 0.5: NO3_030524_0.5PPM_ICV

ICV NO2 0.5: NO2_030524_0.5PPM_ICV

OOH

DW

GOING OOH

FIELD BLANK

Cup #:	Sample ID:	Comments:
44	**L2411349-03**	
45	**WG1892109-3; NO3**	
46	**WG1892109-4; NO3**	
47	**L2411349-04**	
48	**L2411349-05**	
49	**L2411349-06**	
50	**L2410530-01**	
51	**WG1892110-3; CNO3**	
52	**WG1892110-4; CNO3**	
53	**L2410597-02**	
54	**L2410597-04**	
55	**L2410597-07**	
56	**L2410726-02**	
57	**L2410933-01**	
58	**L2410933-02**	
59	**L2411102-01**	
60	**L2411102-02**	
61	**L2410579-01**	
62	**WG1892111-3; CNO3**	
63	**WG1892111-4; CNO3**	
64	**L2410579-02**	
65	**L2410579-03**	
66	**L2410579-04**	
67	**L2410579-05**	
68	**L2410579-06**	
69	**L2410579-07**	
70	**L2410579-08**	
71	**L2410579-09**	
72	**L2410666-01**	
73		
74		
75		
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88		
89		

Total Dissolved Solids Analysis

Results

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2410579-01	**Date Collected**	: 02/26/24 14:10
Client ID	: MW-1S	**Date Received**	: 02/27/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 02/29/24 17:22
Sample Matrix	: WATER	**Dilution Factor**	: 1.3
Analytical Method	: 121,2540C	**Analyst**	: REM
Lab File ID	: WG1890843.pdf	**Instrument ID**	: BALANCE#22
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Solids, Total Dissolved	430	13	4.0	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2410579-02	**Date Collected**	: 02/26/24 15:25
Client ID	: MW-2S	**Date Received**	: 02/27/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 02/29/24 17:22
Sample Matrix	: WATER	**Dilution Factor**	: 1.3
Analytical Method	: 121,2540C	**Analyst**	: REM
Lab File ID	: WG1890843.pdf	**Instrument ID**	: BALANCE#22
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Solids, Total Dissolved	310	13	4.0	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2410579-03	**Date Collected**	: 02/26/24 16:30
Client ID	: MW-3S	**Date Received**	: 02/27/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 02/29/24 17:22
Sample Matrix	: WATER	**Dilution Factor**	: 1.3
Analytical Method	: 121,2540C	**Analyst**	: REM
Lab File ID	: WG1890843.pdf	**Instrument ID**	: BALANCE#22
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Solids, Total Dissolved	500	13	4.0	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2410579-04	**Date Collected**	: 02/27/24 09:05
Client ID	: MW-4D	**Date Received**	: 02/27/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 02/29/24 17:22
Sample Matrix	: WATER	**Dilution Factor**	: 1.3
Analytical Method	: 121,2540C	**Analyst**	: REM
Lab File ID	: WG1890843.pdf	**Instrument ID**	: BALANCE#22
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Solids, Total Dissolved	270	13	4.0	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2410579-05	**Date Collected**	: 02/27/24 08:40
Client ID	: MW-5S	**Date Received**	: 02/27/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 02/29/24 17:22
Sample Matrix	: WATER	**Dilution Factor**	: 1.3
Analytical Method	: 121,2540C	**Analyst**	: REM
Lab File ID	: WG1890843.pdf	**Instrument ID**	: BALANCE#22
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Solids, Total Dissolved	260	13	4.0	

Form 1
WETCHEM

Client	:	**Alpha Geoscience**	**Lab Number**	:	**L2410579**
Project Name	:	**HUNTINGTON READY MIX**	**Project Number**	:	**20116**
Lab ID	:	**L2410579-06**	**Date Collected**	:	**02/26/24 16:35**
Client ID	:	**MW-6D**	**Date Received**	:	**02/27/24**
Sample Location	:	**SPEONK, NY**	**Date Analyzed**	:	**02/29/24 17:22**
Sample Matrix	:	**WATER**	**Dilution Factor**	:	**1.3**
Analytical Method	:	**121,2540C**	**Analyst**	:	**REM**
Lab File ID	:	**WG1890843.pdf**	**Instrument ID**	:	**BALANCE#22**
Sample Amount	:		**%Solids**	:	**N/A**
Digestion Method	:		**Date Digested**	:	

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	**Solids, Total Dissolved**	**600**	**13**	**4.0**	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2410579-07	**Date Collected**	: 02/26/24 14:45
Client ID	: MW-7S	**Date Received**	: 02/27/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 02/29/24 17:22
Sample Matrix	: WATER	**Dilution Factor**	: 1.3
Analytical Method	: 121,2540C	**Analyst**	: REM
Lab File ID	: WG1890843.pdf	**Instrument ID**	: BALANCE#22
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Solids, Total Dissolved	470	13	4.0	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2410579-08	**Date Collected**	: 02/27/24 10:25
Client ID	: MW-8S	**Date Received**	: 02/27/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 02/29/24 17:22
Sample Matrix	: WATER	**Dilution Factor**	: 1.3
Analytical Method	: 121,2540C	**Analyst**	: REM
Lab File ID	: WG1890843.pdf	**Instrument ID**	: BALANCE#22
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Solids, Total Dissolved	270	13	4.0	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2410579-09	**Date Collected**	: 02/26/24 00:00
Client ID	: DUP	**Date Received**	: 02/27/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 02/29/24 17:22
Sample Matrix	: WATER	**Dilution Factor**	: 1.3
Analytical Method	: 121,2540C	**Analyst**	: REM
Lab File ID	: WG1890843.pdf	**Instrument ID**	: BALANCE#22
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Solids, Total Dissolved	600	13	4.0	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: WG1890843-1	**Date Collected**	: NA
Client ID	: WG1890843-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 02/29/24 17:22
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,2540C	**Analyst**	: REM
Lab File ID	: WG1890843.pdf	**Instrument ID**	: BALANCE#22
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Solids, Total Dissolved	ND	10	3.1	U

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: WG1890843-3	**Date Collected**	: 02/27/24 14:45
Client ID	: WG1890843-3 DUP	**Date Received**	: 02/27/24
Sample Location	:	**Date Analyzed**	: 02/29/24 17:22
Sample Matrix	: WATER	**Dilution Factor**	: 1.3
Analytical Method	: 121,2540C	**Analyst**	: REM
Lab File ID	: WG1890843.pdf	**Instrument ID**	: BALANCE#22
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Solids, Total Dissolved	300	13	4.0	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: WG1890843-4	**Date Collected**	: 02/27/24 14:30
Client ID	: WG1890843-4 DUP	**Date Received**	: 02/27/24
Sample Location	:	**Date Analyzed**	: 02/29/24 17:22
Sample Matrix	: WATER	**Dilution Factor**	: 1.3
Analytical Method	: 121,2540C	**Analyst**	: REM
Lab File ID	: WG1890843.pdf	**Instrument ID**	: BALANCE#22
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Solids, Total Dissolved	310	13	4.0	

Sample Raw Data

Wet Chemistry Gravimetric ELN

Printed: MAR-02-24 16:41:56

WorkGroup	WG1890843	**Temp In (C)**	180	**Temp In (C)**	180	**Temp In (C)**	180	**Temp In (C)**		**Temp In (C)**					
Title	Solids, Total Dissolved	**Temp Out (C)**	180	**Temp Out (C)**	180	**Temp Out (C)**	180	**Temp Out (C)**		**Temp Out (C)**					
Method	SM2540C	**Time In**	01-MAR-24 16:30	**Time In**	01-MAR-24 19:16	**Time In**	01-MAR-24 23:26	**Time In**		**Time In**					
Instrument	BALANCE#22	**Time Out**	01-MAR-24 18:20	**Time Out**	01-MAR-24 21:11	**Time Out**	02-MAR-24 15:30	**Time Out**		**Time Out**					

Evaporation	**Temp In (C)**	**Time In**
	90	29-FEB-24 18:40

LCS Lot #	**TrueValue**	**Units**
021324B	500	mg/l

Sample #	Analysis Date	Analyst	Cup ID	Filter Lot	Tare Weight (gm)	Sample Volume (ml)	Net Weight (1) (gm)	Net Weight (2) (gm)	Net Weight (3) (gm)	Net Weight (4) (gm)	Net Weight (5) (gm)	Result mg/L	Dil	Comment
L2410430-12	29-FEB-24 17:22	RENATA MUKHAMETZHANOVA	PQ	71913375	61.6959	80	61.7156	61.7154				243.75	1.3	
L2410507-01	29-FEB-24 17:22	RENATA MUKHAMETZHANOVA	EN	71913375	67.8892	80	67.9141	67.9143				311.25	1.3	EFFLUENT
L2410507-03	29-FEB-24 17:22	RENATA MUKHAMETZHANOVA	CL	71913375	55.2625	80	55.2877	55.2878				315.00	1.3	INFLUENT
L2410530-01	29-FEB-24 17:22	RENATA MUKHAMETZHANOVA	CB	71913375	62.624	80	62.652	62.6519				348.75	1.3	
L2410573-17	29-FEB-24 17:22	RENATA MUKHAMETZHANOVA	W8	71913375	74.6977	80	74.7149	74.7149				215.00	1.3	
L2410579-01	29-FEB-24 17:22	RENATA MUKHAMETZHANOVA	BI	71913375	84.4586	80	84.4928	84.493				427.50	1.3	
L2410579-02	29-FEB-24 17:22	RENATA MUKHAMETZHANOVA	AB1	71913375	67.3507	80	67.3758	67.376				313.75	1.3	
L2410579-03	29-FEB-24 17:22	RENATA MUKHAMETZHANOVA	XM	71913375	128.5033	80	128.5435	128.5431				497.50	1.3	
L2410579-04	29-FEB-24 17:22	RENATA MUKHAMETZHANOVA	P2	71913375	64.5706	80	64.5921	64.5923				268.75	1.3	
L2410579-05	29-FEB-24 17:22	RENATA MUKHAMETZHANOVA	E1	71913375	59.5237	80	59.5441	59.5448	59.545			255.00	1.3	
L2410579-06	29-FEB-24 17:22	RENATA MUKHAMETZHANOVA	RZ	71913375	68.7914	80	68.8392	68.8407	68.8404			597.50	1.3	
L2410579-07	29-FEB-24 17:22	RENATA MUKHAMETZHANOVA	EB	71913375	68.9514	80	68.9889	68.9916	68.9916			468.75	1.3	

Wet Chemistry Gravimetric ELN

Printed: MAR-02-24 16:41:56

WorkGroup	WG1890843	**Temp In (C)**	180	**Temp In (C)**	180	**Temp In (C)**	180	**Temp In (C)**		**Temp In (C)**					
Title	Solids, Total Dissolved	**Temp Out (C)**	180	**Temp Out (C)**	180	**Temp Out (C)**	180	**Temp Out (C)**		**Temp Out (C)**					
Method	SM2540C	**Time In**	01-MAR-24 16:30	**Time In**	01-MAR-24 19:16	**Time In**	01-MAR-24 23:26	**Time In**		**Time In**					
Instrument	BALANCE#22	**Time Out**	01-MAR-24 18:20	**Time Out**	01-MAR-24 21:11	**Time Out**	02-MAR-24 15:30	**Time Out**		**Time Out**					
		Temp In (C)	90	**Time In**	29-FEB-24 18:40							**LCS Lot #**	021324B	**TrueValue**	500	**Units**	mg/l

Sample #	Analysis Date	Analyst	Cup ID			Sample Volume (ml)				Result mg/L	Dil	Comment
L2410579-08	29-FEB-24 17:22	RENATA MUKHAMETZHANOVA	F4	71913375	66.2569	80	66.2787	66.2803	66.2807	272.50	1.3	
L2410579-09	29-FEB-24 17:22	RENATA MUKHAMETZHANOVA	BE	71913375	66.651	80	66.6989	66.7009	66.701	598.75	1.3	
L2410640-01	29-FEB-24 17:22	RENATA MUKHAMETZHANOVA	AA3	71913375	67.8063	80	67.8439	67.8463	67.8466	470.00	1.3	
L2410640-02	29-FEB-24 17:22	RENATA MUKHAMETZHANOVA	P8	71913375	70.725	80	70.7457	70.7476	70.7474	258.75	1.3	
L2410741-01	29-FEB-24 17:22	RENATA MUKHAMETZHANOVA	B45	71913375	64.409	80	64.4121	64.4133	64.4137	38.75	1.3	
L2410745-01	29-FEB-24 17:22	RENATA MUKHAMETZHANOVA	FX	71913375	61.4932	80	61.5081	61.5088	61.5089	186.25	1.3	
L2410745-02	29-FEB-24 17:22	RENATA MUKHAMETZHANOVA	W4	71913375	65.1218	80	65.1342	65.1356	65.1355	155.00	1.3	
L2410877-01	29-FEB-24 17:22	RENATA MUKHAMETZHANOVA	CA	71913375	58.8909	80	58.9014	58.9025	58.9027	131.25	1.3	
WG1890843-1	29-FEB-24 17:22	RENATA MUKHAMETZHANOVA	AB	71913375	79.5662	100	79.5663	79.5659		-3.00	1	
WG1890843-2	29-FEB-24 17:22	RENATA MUKHAMETZHANOVA	P1	71913375	72.0967	50	72.1215	72.1211		488.00	2	
WG1890843-3	29-FEB-24 17:22	RENATA MUKHAMETZHANOVA	EQ	71913375	59.9981	80	60.0224	60.0228		303.75	1.3	
WG1890843-4	29-FEB-24 17:22	RENATA MUKHAMETZHANOVA	PD	71913375	66.0971	80	66.1219	66.1221		310.00	1.3	

Quality Control

Form 6
Lab Duplicates

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: NA	**Analysis Date**	: 02/29/24 17:22
Dup Sample ID	: WG1890843-3	**DUP Analysis Date**	: 02/29/24 17:22

Parameter	Sample Concentration (mg/l)	Duplicate Concentration (mg/l)	RPD	RPD Limit
Solids, Total Dissolved	310	300	3	10

Form 6
Lab Duplicates

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: NA	**Analysis Date**	: 02/29/24 17:22
Dup Sample ID	: WG1890843-4	**DUP Analysis Date**	: 02/29/24 17:22

Parameter	Sample Concentration (mg/l)	Duplicate Concentration (mg/l)	RPD	RPD Limit
Solids, Total Dissolved	320	310	3	10

Form 7
Laboratory Control Sample

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: WG1890843-2	**LCS Analysis Date**	: 02/29/24 17:22
Dup Sample ID	:	**LCSD Analysis Date**	:

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	**True (mg/l)**	**Found (mg/l)**	**%R**	**True (mg/l)**	**Found (mg/l)**	**%R**	**RPD**	**Recovery Limits**	**RPD Limit**
Solids, Total Dissolved	**500.**	**490.**	**98.**					**80-120**	**10**

Date Created: 11/11/21
Created By: Jason Hebert
File: PM11467-1
Page: 1

WETCHEM (WATER)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Method	Holding Time	Container/Sample Preservation
Solids, Total Dissolved	NONE	10	3.07	mg/l	80-120			10	10	2540C	7 days	1 - Plastic 500ml unpreserved

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

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Calculations of TDS

$$\text{mgTDS/L} = \frac{(A - B) \times 1000}{\text{Sample volume, (L)}}$$

Where:

A = Final weight (weight of dish + dried residue, g)
B = Initial weight (weight of clean dish, g)

Sulfide Analysis

Results

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2410579-01	**Date Collected**	: 02/26/24 14:10
Client ID	: MW-1S	**Date Received**	: 02/27/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 02/29/24 10:26
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500S2-D	**Analyst**	: LOF
Lab File ID	: WG1890650.csv	**Instrument ID**	: GENSYS10VI
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 02/29/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
18496-25-8	Sulfide	ND	0.10	0.10	U

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2410579-02	**Date Collected**	: 02/26/24 15:25
Client ID	: MW-2S	**Date Received**	: 02/27/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 02/29/24 10:27
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500S2-D	**Analyst**	: LOF
Lab File ID	: WG1890650.csv	**Instrument ID**	: GENSYS10VI
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 02/29/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
18496-25-8	Sulfide	ND	0.10	0.10	U

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2410579-03	**Date Collected**	: 02/26/24 16:30
Client ID	: MW-3S	**Date Received**	: 02/27/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 02/29/24 10:29
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500S2-D	**Analyst**	: LOF
Lab File ID	: WG1890650.csv	**Instrument ID**	: GENSYS10VI
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 02/29/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
18496-25-8	Sulfide	ND	0.10	0.10	U

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2410579-04	**Date Collected**	: 02/27/24 09:05
Client ID	: MW-4D	**Date Received**	: 02/27/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 02/29/24 10:30
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500S2-D	**Analyst**	: LOF
Lab File ID	: WG1890650.csv	**Instrument ID**	: GENSYS10VI
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 02/29/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
18496-25-8	Sulfide	ND	0.10	0.10	U

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2410579-05	**Date Collected**	: 02/27/24 08:40
Client ID	: MW-5S	**Date Received**	: 02/27/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 02/29/24 12:31
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500S2-D	**Analyst**	: LOF
Lab File ID	: WG1890650.csv	**Instrument ID**	: GENSYS10VI
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 02/29/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
18496-25-8	Sulfide	ND	0.10	0.10	U

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2410579-06	**Date Collected**	: 02/26/24 16:35
Client ID	: MW-6D	**Date Received**	: 02/27/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 02/29/24 12:31
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500S2-D	**Analyst**	: LOF
Lab File ID	: WG1890650.csv	**Instrument ID**	: GENSYS10VI
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 02/29/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
18496-25-8	Sulfide	ND	0.10	0.10	U

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2410579-07	**Date Collected**	: 02/26/24 14:45
Client ID	: MW-7S	**Date Received**	: 02/27/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 02/29/24 12:32
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500S2-D	**Analyst**	: LOF
Lab File ID	: WG1890650.csv	**Instrument ID**	: GENSYS10VI
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 02/29/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
18496-25-8	Sulfide	ND	0.10	0.10	U

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2410579-08	**Date Collected**	: 02/27/24 10:25
Client ID	: MW-8S	**Date Received**	: 02/27/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 02/29/24 12:32
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500S2-D	**Analyst**	: LOF
Lab File ID	: WG1890650.csv	**Instrument ID**	: GENSYS10VI
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 02/29/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
18496-25-8	Sulfide	ND	0.10	0.10	U

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2410579-09	**Date Collected**	: 02/26/24 00:00
Client ID	: DUP	**Date Received**	: 02/27/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 02/29/24 12:35
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500S2-D	**Analyst**	: LOF
Lab File ID	: WG1890650.csv	**Instrument ID**	: GENSYS10VI
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 02/29/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
18496-25-8	Sulfide	ND	0.10	0.10	U

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: WG1890650-1	**Date Collected**	: NA
Client ID	: WG1890650-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 02/29/24 10:24
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500S2-D	**Analyst**	: LOF
Lab File ID	: WG1890650.csv	**Instrument ID**	: GENSYS10VI
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 02/29/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
18496-25-8	Sulfide	ND	0.10	0.10	U

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: WG1890650-3	**Date Collected**	: 02/26/24 14:10
Client ID	: MW-1SDUP	**Date Received**	: 02/27/24
Sample Location	:	**Date Analyzed**	: 02/29/24 10:26
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500S2-D	**Analyst**	: LOF
Lab File ID	: WG1890650.csv	**Instrument ID**	: GENSYS10VI
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 02/29/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
18496-25-8	Sulfide	ND	0.10	0.10	U

Sample Raw Data

ALPHA ANALYTICAL

WET CHEMISTRY DEPARTMENT

Sulfide, Total

Last Change3/5/13
File Sulfide-Total-L.xlt

SOP No.: 07-30

Product: SULFIDE-4500
Curve Calibration Date : 5/22/2023
Curve Identifier: 052223
Analysis: Sulfide, Total
Analyte: Sulfide,
Method: SM 4500S2-AD
Prep Date/Time: 2/29/24 8:59
Instrument: GENSYS10vis
Technician: LOF
Wavelength: 664 nm
Work group: WG1890650
LCS Volume(ml): 250.0
RDL: 0.1 mg/L
LCS Concentration (mg/l): 0.263
Cell: 1 cm

Standard ID ug/100ml	Peak Area abs	Dilution
0	0.000	1.0
5.485	0.043	1.0
10.97	0.075	1.0
21.94	0.146	1.0
43.88	0.285	1.0
87.76	0.542	1.0
131.64	0.828	1.0
175.52	1.044	1.0

Calibration Curve
Volume: 50ml

Slope	y-intercept
0.006008	0.01198643

Correlation Coefficient: 0.999356

ICV/LCS Concentration (mg/l): 0.26

Reagents/Media Information

Material	Lot No.
ICV/LCS:	S2_022924_LCS
CCV:	S2_022924_SPK
MS:	S2_022924_SPK
2N HCl:	2024011808
1N NaOH:	022224_NAOH1N
Sulfide 1 Reagent:	A2062
Sulfide 2 Reagent:	A3059
0.2N NaOH:	

Get Samples
CHOOSE M
SM4500
SM4500 (PPB)

Time	Date	Sample number	Sample Volume (ml)		Absorbance	Conc. (ug S/100ml)	Coloring Dilution Factor		RDL Multiplier	FINAL RESULT (mg/l)	Recovery
10:24	2/29/2024	ICV	250		0.46	74.570	1		1.0	0.30	115%
10:23	2/29/2024	ICB	250		0.001	0.000	1		1.0	0.00	
10:24	2/29/2024	BLANK	250		0.001	0.000	1		1.0	0.00	Recovery
10:25	2/29/2024	LCS	250		0.466	75.568	1		1.0	0.30	115%
10:26	2/29/2024	L2410579-01	295		0.004	0.000	1		1.0	0.00	
10:27	2/29/2024	L2410579-02	295		0.004	0.000	1		1.0	0.00	
10:29	2/29/2024	L2410579-03	300		0.007	0.000	1		1.0	0.00	
10:30	2/29/2024	L2410579-04	295		0.002	0.000	1		1.0	0.00	
12:31	2/29/2024	L2410579-05	280		0.004	0.000	1		1.0	0.00	
12:31	2/29/2024	L2410579-06	295		0.011	0.000	1		1.0	0.00	
12:32	2/29/2024	L2410579-07	290		0.007	0.000	1		1.0	0.00	
12:32	2/29/2024	L2410579-08	320		0.007	0.000	1		1.0	0.00	
12:33	2/29/2024	CCV	250		0.375	60.422	1		1.0	0.24	92%
12:33	2/29/2024	CCB	250		0.002	0.000	1		1.0	0.00	
12:35	2/29/2024	L2410579-09	295		0.004	0.000	1		1.0	0.00	
12:35	2/29/2024	L2410640-01	300		0.006	0.000	1		1.0	0.00	
12:35	2/29/2024	L2410640-02	300		0.002	0.000	1		1.0	0.00	
12:36	2/29/2024	CCV	250		0.372	59.922	1		1.0	0.24	92%
12:36	2/29/2024	CCB	250		0.001	0.000	1		1.0	0.00	
						0.000	1				
10:24	2/29/2024	WG1890650-1	250		0.001	0.000	1		1.0	0.00	
10:26	2/29/2024	WG1890650-3	295		0.001	0.000	1		1.0	0.00	DUP

		Sample number	Sample volume		Absorbance	Sample Result mg/l	Dilution Factor	Spike conc. mg/l	RDL Multiplier	Spike Result mg/l	Recovery %
10:27	2/29/2024	WG1890650-4	295		0.73	0.00	1	0.52	1.0	0.41	79
							1	0.00			
10:24	2/29/2024	WG1890650-2	250		0.466		1	0.26	1.0	0.30	115%

COMMENTS & OBSERVATIONS	SAMPLE RESULT
	ICV
	ICB
	L2410579-01
	L2410579-02
	L2410579-03
	L2410579-04
	CCV
	CCB
	L2410579-09
	L2410640-01
	L2410640-02
	CCV
	CCB
	0
	WG1890650-1
L2410579-01	WG1890650-3

L2410579-02	WG1890650-4
	0
LCS	WG1890650-2

Quality Control

Form 5a
Matrix Spike

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Client Sample ID	: MW-2S	**Matrix**	: WATER
Lab Sample ID	: L2410579-02		
Matrix Spike	: WG1890650-4	**MS Analysis Date**	: 02/29/24 10:27
Matrix Spike Dup	:	**MSD Analysis Date**	:

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	Sample Conc. (mg/l)	Spike Added (mg/l)	Spike Conc. (mg/l)	%R	Spike Added (mg/l)	Spike Conc. (mg/l)	%R	RPD	Recovery Limits	RPD Limit
Sulfide	ND	0.52	0.41	79					70-130	20

Form 6
Lab Duplicates

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Client Sample ID	: MW-1S	**Matrix**	: WATER
Lab Sample ID	: L2410579-01	**Analysis Date**	: 02/29/24 10:26
Dup Sample ID	: WG1890650-3	**DUP Analysis Date**	: 02/29/24 10:26

Parameter	Sample Concentration (mg/l)	Duplicate Concentration (mg/l)	RPD	RPD Limit
Sulfide	ND	ND	NC	20

Form 7
Laboratory Control Sample

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: WG1890650-2	**LCS Analysis Date**	: 02/29/24 10:24
Dup Sample ID	:	**LCSD Analysis Date**	:

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	**True (mg/l)**	**Found (mg/l)**	**%R**	**True (mg/l)**	**Found (mg/l)**	**%R**	**RPD**	**Recovery Limits**	**RPD Limit**
Sulfide	0.260	0.300	115.					75-125	20

Date Created: 11/11/21
Created By: Jason Hebert
File: PM11467-1
Page: 1

WETCHEM (WATER)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Method	Holding Time	Container/Sample Preservation
Sulfide	18496-25-8	0.1	0.1	mg/l	75-125		70-130	20	20	4500S2-D	7 days	2 - Plastic 250ml Zn Acetate/NaOH preserved
Sulfide	18496-25-8	0.1	0.1	mg/l	75-125		70-130	20	20	9030B	7 days	2 - Plastic 250ml Zn Acetate/NaOH preserved

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

Date Created: 11/11/21
Created By: Jason Hebert
File: PM11468-1
Page: 1

WETCHEM (SOIL)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Method	Holding Time	Container/Sample Preservation
Sulfide	18496-25-8	0.5	0.156	mg/kg	75-125	25	70-130	25	25	9030B	7 days	1 - Glass 250ml/8oz unpreserved

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

Calculations of Total Sulfide

Aqueous samples:

Calculate the concentration value of the sample (in mgS/100ml) directly from the standard curve.

$$\text{mgS/100ml} = \frac{\text{absorbance - y-intercept}}{\text{slope}} \times \text{Dilution Factor}$$

Calculate the final concentration value of Sulfide in the sample:

$$\text{mgS/L} = \frac{\text{mgS/100ml}}{\text{Sample volume (ml)}}$$

Alkalinity Analysis

Results

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2410579-01	**Date Collected**	: 02/26/24 14:10
Client ID	: MW-1S	**Date Received**	: 02/27/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 02/29/24 09:23
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,2320B	**Analyst**	: MKT
Lab File ID	: WG1890757.csv	**Instrument ID**	:
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg CaCO3/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
3812-32-6	Alkalinity, Carbonate	ND	2.00	NA	U

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2410579-02	**Date Collected**	: 02/26/24 15:25
Client ID	: MW-2S	**Date Received**	: 02/27/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 02/29/24 09:23
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,2320B	**Analyst**	: MKT
Lab File ID	: WG1890757.csv	**Instrument ID**	:
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg CaCO3/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
3812-32-6	Alkalinity, Carbonate	ND	2.00	NA	U

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2410579-03	**Date Collected**	: 02/26/24 16:30
Client ID	: MW-3S	**Date Received**	: 02/27/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 02/29/24 09:23
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,2320B	**Analyst**	: MKT
Lab File ID	: WG1890757.csv	**Instrument ID**	:
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg CaCO3/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
3812-32-6	Alkalinity, Carbonate	ND	2.00	NA	U

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2410579-04	**Date Collected**	: 02/27/24 09:05
Client ID	: MW-4D	**Date Received**	: 02/27/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 02/29/24 09:23
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,2320B	**Analyst**	: MKT
Lab File ID	: WG1890757.csv	**Instrument ID**	:
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg CaCO3/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
3812-32-6	Alkalinity, Carbonate	ND	2.00	NA	U

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2410579-05	**Date Collected**	: 02/27/24 08:40
Client ID	: MW-5S	**Date Received**	: 02/27/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 02/29/24 09:23
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,2320B	**Analyst**	: MKT
Lab File ID	: WG1890757.csv	**Instrument ID**	:
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg CaCO3/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
3812-32-6	Alkalinity, Carbonate	ND	2.00	NA	U

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2410579-06	**Date Collected**	: 02/26/24 16:35
Client ID	: MW-6D	**Date Received**	: 02/27/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 02/29/24 09:23
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,2320B	**Analyst**	: MKT
Lab File ID	: WG1890757.csv	**Instrument ID**	:
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg CaCO3/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
3812-32-6	Alkalinity, Carbonate	ND	2.00	NA	U

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2410579-07	**Date Collected**	: 02/26/24 14:45
Client ID	: MW-7S	**Date Received**	: 02/27/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 02/29/24 09:23
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,2320B	**Analyst**	: MKT
Lab File ID	: WG1890757.csv	**Instrument ID**	:
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg CaCO3/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
3812-32-6	Alkalinity, Carbonate	ND	2.00	NA	U

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2410579-08	**Date Collected**	: 02/27/24 10:25
Client ID	: MW-8S	**Date Received**	: 02/27/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 02/29/24 09:23
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,2320B	**Analyst**	: MKT
Lab File ID	: WG1890757.csv	**Instrument ID**	:
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg CaCO3/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
3812-32-6	Alkalinity, Carbonate	ND	2.00	NA	U

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2410579-09	**Date Collected**	: 02/26/24 00:00
Client ID	: DUP	**Date Received**	: 02/27/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 02/29/24 09:23
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,2320B	**Analyst**	: MKT
Lab File ID	: WG1890757.csv	**Instrument ID**	:
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg CaCO3/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
3812-32-6	Alkalinity, Carbonate	ND	2.00	NA	U

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: WG1890757-1	**Date Collected**	: NA
Client ID	: WG1890757-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 02/29/24 09:23
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,2320B	**Analyst**	: MKT
Lab File ID	: WG1890757.csv	**Instrument ID**	:
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg CaCO3/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
3812-32-6	Alkalinity, Carbonate	ND	2.00	NA	U

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: WG1890757-2	**Date Collected**	: 02/27/24 10:25
Client ID	: MW-8SDUP	**Date Received**	: 02/27/24
Sample Location	:	**Date Analyzed**	: 02/29/24 09:23
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,2320B	**Analyst**	: MKT
Lab File ID	: WG1890757.csv	**Instrument ID**	:
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg CaCO3/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
3812-32-6	Alkalinity, Carbonate	ND	2.00	NA	U

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2410579-01	**Date Collected**	: 02/26/24 14:10
Client ID	: MW-1S	**Date Received**	: 02/27/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 02/29/24 09:23
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,2320B	**Analyst**	: MKT
Lab File ID	: WG1890756.csv	**Instrument ID**	:
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg CaCO3/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
71-52-3	Alkalinity, Bicarbonate	86.6	2.00	NA	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2410579-02	**Date Collected**	: 02/26/24 15:25
Client ID	: MW-2S	**Date Received**	: 02/27/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 02/29/24 09:23
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,2320B	**Analyst**	: MKT
Lab File ID	: WG1890756.csv	**Instrument ID**	:
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg CaCO3/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
71-52-3	Alkalinity, Bicarbonate	169.	2.00	NA	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2410579-03	**Date Collected**	: 02/26/24 16:30
Client ID	: MW-3S	**Date Received**	: 02/27/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 02/29/24 09:23
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,2320B	**Analyst**	: MKT
Lab File ID	: WG1890756.csv	**Instrument ID**	:
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg CaCO3/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
71-52-3	Alkalinity, Bicarbonate	215.	2.00	NA	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2410579-04	**Date Collected**	: 02/27/24 09:05
Client ID	: MW-4D	**Date Received**	: 02/27/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 02/29/24 09:23
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,2320B	**Analyst**	: MKT
Lab File ID	: WG1890756.csv	**Instrument ID**	:
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg CaCO3/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
71-52-3	Alkalinity, Bicarbonate	41.0	2.00	NA	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2410579-05	**Date Collected**	: 02/27/24 08:40
Client ID	: MW-5S	**Date Received**	: 02/27/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 02/29/24 09:23
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,2320B	**Analyst**	: MKT
Lab File ID	: WG1890756.csv	**Instrument ID**	:
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg CaCO3/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
71-52-3	Alkalinity, Bicarbonate	46.9	2.00	NA	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2410579-06	**Date Collected**	: 02/26/24 16:35
Client ID	: MW-6D	**Date Received**	: 02/27/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 02/29/24 09:23
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,2320B	**Analyst**	: MKT
Lab File ID	: WG1890756.csv	**Instrument ID**	:
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg CaCO3/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
71-52-3	Alkalinity, Bicarbonate	334.	2.00	NA	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2410579-07	**Date Collected**	: 02/26/24 14:45
Client ID	: MW-7S	**Date Received**	: 02/27/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 02/29/24 09:23
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,2320B	**Analyst**	: MKT
Lab File ID	: WG1890756.csv	**Instrument ID**	:
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg CaCO3/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
71-52-3	Alkalinity, Bicarbonate	230.	2.00	NA	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2410579-08	**Date Collected**	: 02/27/24 10:25
Client ID	: MW-8S	**Date Received**	: 02/27/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 02/29/24 09:23
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,2320B	**Analyst**	: MKT
Lab File ID	: WG1890756.csv	**Instrument ID**	:
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg CaCO3/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
71-52-3	Alkalinity, Bicarbonate	80.8	2.00	NA	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2410579-09	**Date Collected**	: 02/26/24 00:00
Client ID	: DUP	**Date Received**	: 02/27/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 02/29/24 09:23
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,2320B	**Analyst**	: MKT
Lab File ID	: WG1890756.csv	**Instrument ID**	:
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg CaCO3/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
71-52-3	Alkalinity, Bicarbonate	347.	2.00	NA	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: WG1890756-1	**Date Collected**	: NA
Client ID	: WG1890756-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 02/29/24 09:23
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,2320B	**Analyst**	: MKT
Lab File ID	: WG1890756.csv	**Instrument ID**	:
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg CaCO3/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
71-52-3	Alkalinity, Bicarbonate	ND	2.00	NA	U

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: WG1890756-2	**Date Collected**	: 02/27/24 10:25
Client ID	: MW-8SDUP	**Date Received**	: 02/27/24
Sample Location	:	**Date Analyzed**	: 02/29/24 09:23
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,2320B	**Analyst**	: MKT
Lab File ID	: WG1890756.csv	**Instrument ID**	:
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg CaCO3/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
71-52-3	Alkalinity, Bicarbonate	79.2	2.00	NA	

Sample Raw Data

Results Editor

Result Overview

Sample start t	Zero poin	Unit of Ze	Data marl	Slope 1 (C	Unit of Sl	Data marl	Sensor ty	List of sta	Standard	Comment	Temperat
	6.990	pH		-55.98	mV/pH						

Results Editor

Result Overview

Sample ID1	Potentia	Unit of P	Data ma	Sample start	Volume	Unit of V	Density [	Unit of D	Cor	Uni	Tempera	Unit of T	Commer
--	7.01	pH		2/29/2024 8	0	mL	1.0	g/mL	1.0		25.0	°C	

Titration report

LabX

Method

Method ID	Alk Total (2)	**Release state**	Released
Name	EP/EP	**Modified by**	SystemInternal
Modified on	10/14/2023 11:44:43 AM		

Summary

Samples

	Sample ID	Name	Result	State
1	rinse	Sample size	50 mL	
		Potential R4	7.65 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.933 mL	OK
		Consumption 4.2 R3	0.938 mL	OK
		Content R5	18.660 mg/L	OK
		ALK LOW R6	18.560 mg/L	OK
2	rinse	Sample size	50 mL	
		Potential R4	6.23 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.136 mL	OK
		Consumption 4.2 R3	0.145 mL	OK
		Content R5	2.720 mg/L	OK
		ALK LOW R6	2.540 mg/L	OK
3	blank	Sample size	50 mL	
		Potential R4	5.69 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.097 mL	OK
		Consumption 4.2 R3	0.134 mL	OK
		Content R5	1.940 mg/L	OK
		ALK LOW R6	1.200 mg/L	OK
4	lcs	Sample size	50 mL	
		Potential R4	11.38 pH	OK
		Consumption 8.3 R1	5.230 mL	OK
		Consumption 4.5 R2	5.594 mL	OK
		Consumption 4.2 R3	5.594 mL	OK
		Content R5	111.880 mg/L	OK
		ALK LOW R6	111.880 mg/L	OK
5	LCS	Sample size	50 mL	
		Potential R4	11.40 pH	OK
		Consumption 8.3 R1	5.033 mL	OK
		Consumption 4.5 R2	5.391 mL	OK
		Consumption 4.2 R3	5.397 mL	OK
		Content R5	107.820 mg/L	OK
		ALK LOW R6	107.700 mg/L	OK
6	L2410084-01	Sample size	50 mL	

Titration report

		Potential R4	6.72 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	8.000 mL	OK
		Consumption 4.2 R3	8.182 mL	OK
		Content R5	160.000 mg/L	OK
		ALK LOW R6	156.360 mg/L	OK
7	L2410084-02	Sample size	50 mL	
		Potential R4	5.99 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	7.864 mL	OK
		Consumption 4.2 R3	7.952 mL	OK
		Content R5	157.280 mg/L	OK
		ALK LOW R6	155.520 mg/L	OK
8	L2410084-03	Sample size	50 mL	
		Potential R4	6.48 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	9.740 mL	OK
		Consumption 4.2 R3	9.863 mL	OK
		Content R5	194.800 mg/L	OK
		ALK LOW R6	192.340 mg/L	OK
9	L2410084-04	Sample size	50 mL	
		Potential R4	5.56 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.407 mL	OK
		Consumption 4.2 R3	0.423 mL	OK
		Content R5	8.140 mg/L	OK
		ALK LOW R6	7.820 mg/L	OK
10	L2410084-05	Sample size	50 mL	
		Potential R4	6.38 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	15.358 mL	OK
		Consumption 4.2 R3	15.555 mL	OK
		Content R5	307.160 mg/L	OK
		ALK LOW R6	303.220 mg/L	OK
11	L2410084-06	Sample size	50 mL	
		Potential R4	5.44 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	1.031 mL	OK
		Consumption 4.2 R3	1.075 mL	OK
		Content R5	20.620 mg/L	OK
		ALK LOW R6	19.740 mg/L	OK
12	L2410084-07	Sample size	50 mL	
		Potential R4	5.09 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.294 mL	OK
		Consumption 4.2 R3	0.326 mL	OK
		Content R5	5.880 mg/L	OK

Titration report

		ALK LOW R6	5.240 mg/L	OK
13	L2410084-08	Sample size	50 mL	
		Potential R4	5.69 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	3.312 mL	OK
		Consumption 4.2 R3	3.408 mL	OK
		Content R5	66.240 mg/L	OK
		ALK LOW R6	64.320 mg/L	OK
14	L2410084-09	Sample size	50 mL	
		Potential R4	6.28 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	9.094 mL	OK
		Consumption 4.2 R3	9.185 mL	OK
		Content R5	181.880 mg/L	OK
		ALK LOW R6	180.060 mg/L	OK
15	L2410091-01	Sample size	50 mL	
		Potential R4	7.55 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	NaN mL	Not OK
		Consumption 4.2 R3	NaN mL	Not OK
		Content R5	NaN mg/L	Not OK
		ALK LOW R6	NaN mg/L	Not OK
16	L2410167-01	Sample size	50 mL	
		Potential R4	6.59 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	3.199 mL	OK
		Consumption 4.2 R3	3.215 mL	OK
		Content R5	63.980 mg/L	OK
		ALK LOW R6	63.660 mg/L	OK
17	dup	Sample size	50 mL	
		Potential R4	6.02 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	3.177 mL	OK
		Consumption 4.2 R3	3.202 mL	OK
		Content R5	63.540 mg/L	OK
		ALK LOW R6	63.040 mg/L	OK
18	ms	Sample size	50 mL	
		Potential R4	10.61 pH	OK
		Consumption 8.3 R1	4.955 mL	OK
		Consumption 4.5 R2	8.511 mL	OK
		Consumption 4.2 R3	8.527 mL	OK
		Content R5	170.220 mg/L	OK
		ALK LOW R6	169.900 mg/L	OK
19	L2410167-02	Sample size	50 mL	
		Potential R4	5.91 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	2.705 mL	OK

Titration report

		Consumption 4.2 R3	2.726 mL	OK
		Content R5	54.100 mg/L	OK
		ALK LOW R6	53.680 mg/L	OK
20	L2410257-01	Sample size	50 mL	
		Potential R4	5.90 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	2.651 mL	OK
		Consumption 4.2 R3	2.679 mL	OK
		Content R5	53.020 mg/L	OK
		ALK LOW R6	52.460 mg/L	OK
21	L2410258-01	Sample size	50 mL	
		Potential R4	5.64 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	3.182 mL	OK
		Consumption 4.2 R3	3.254 mL	OK
		Content R5	63.640 mg/L	OK
		ALK LOW R6	62.200 mg/L	OK
22	L2410258-02	Sample size	50 mL	
		Potential R4	6.34 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	12.456 mL	OK
		Consumption 4.2 R3	12.624 mL	OK
		Content R5	249.120 mg/L	OK
		ALK LOW R6	245.760 mg/L	OK
23	L2410258-03	Sample size	50 mL	
		Potential R4	5.76 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	6.103 mL	OK
		Consumption 4.2 R3	6.213 mL	OK
		Content R5	122.060 mg/L	OK
		ALK LOW R6	119.860 mg/L	OK
24	L2410258-04	Sample size	50 mL	
		Potential R4	5.98 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	9.662 mL	OK
		Consumption 4.2 R3	9.792 mL	OK
		Content R5	193.240 mg/L	OK
		ALK LOW R6	190.640 mg/L	OK
25	L2410258-05	Sample size	50 mL	
		Potential R4	5.86 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	2.430 mL	OK
		Consumption 4.2 R3	2.457 mL	OK
		Content R5	48.600 mg/L	OK
		ALK LOW R6	48.060 mg/L	OK
26	L2410258-06	Sample size	50 mL	
		Potential R4	5.74 pH	OK

Titration report

		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	2.972 mL	OK
		Consumption 4.2 R3	3.027 mL	OK
		Content R5	59.440 mg/L	OK
		ALK LOW R6	58.340 mg/L	OK
27	L2410258-07	Sample size	50 mL	
		Potential R4	5.74 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	1.346 mL	OK
		Consumption 4.2 R3	1.371 mL	OK
		Content R5	26.920 mg/L	OK
		ALK LOW R6	26.420 mg/L	OK
28	l2410573-18	Sample size	50 mL	
		Potential R4	6.64 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	6.517 mL	OK
		Consumption 4.2 R3	6.584 mL	OK
		Content R5	130.340 mg/L	OK
		ALK LOW R6	129.000 mg/L	OK
29	L2410579-01	Sample size	50 mL	
		Potential R4	6.38 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	4.329 mL	OK
		Consumption 4.2 R3	4.385 mL	OK
		Content R5	86.580 mg/L	OK
		ALK LOW R6	85.460 mg/L	OK
30	L2410579-02	Sample size	50 mL	
		Potential R4	6.38 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	8.464 mL	OK
		Consumption 4.2 R3	8.544 mL	OK
		Content R5	169.280 mg/L	OK
		ALK LOW R6	167.680 mg/L	OK
31	L2410579-03	Sample size	50 mL	
		Potential R4	6.21 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	10.766 mL	OK
		Consumption 4.2 R3	10.896 mL	OK
		Content R5	215.320 mg/L	OK
		ALK LOW R6	212.720 mg/L	OK
32	L2410579-04	Sample size	50 mL	
		Potential R4	5.85 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	2.051 mL	OK
		Consumption 4.2 R3	2.070 mL	OK
		Content R5	41.020 mg/L	OK
		ALK LOW R6	40.640 mg/L	OK

Titration report

33	L2410579-05	Sample size	50 mL	
		Potential R4	5.68 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	2.346 mL	OK
		Consumption 4.2 R3	2.398 mL	OK
		Content R5	46.920 mg/L	OK
		ALK LOW R6	45.880 mg/L	OK
34	L2410579-06	Sample size	50 mL	
		Potential R4	6.20 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	16.724 mL	OK
		Consumption 4.2 R3	16.906 mL	OK
		Content R5	334.480 mg/L	OK
		ALK LOW R6	330.840 mg/L	OK
35	L2410579-07	Sample size	50 mL	
		Potential R4	6.12 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	11.503 mL	OK
		Consumption 4.2 R3	11.673 mL	OK
		Content R5	230.060 mg/L	OK
		ALK LOW R6	226.660 mg/L	OK
36	L2410579-08	Sample size	50 mL	
		Potential R4	6.01 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	4.040 mL	OK
		Consumption 4.2 R3	4.091 mL	OK
		Content R5	80.800 mg/L	OK
		ALK LOW R6	79.780 mg/L	OK
37	dup	Sample size	50 mL	
		Potential R4	6.02 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	3.958 mL	OK
		Consumption 4.2 R3	4.010 mL	OK
		Content R5	79.160 mg/L	OK
		ALK LOW R6	78.120 mg/L	OK
38	L2410579-09	Sample size	50 mL	
		Potential R4	6.16 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	17.349 mL	OK
		Consumption 4.2 R3	17.606 mL	OK
		Content R5	346.980 mg/L	OK
		ALK LOW R6	341.840 mg/L	OK
39	L2410849-03	Sample size	50 mL	
		Potential R4	6.86 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	6.664 mL	OK
		Consumption 4.2 R3	6.723 mL	OK

Titration report

		Content R5	133.280 mg/L	OK
		ALK LOW R6	132.100 mg/L	OK
40	I2410091-01 2X+10	Sample size	50 mL	
		Potential R4	6.06 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	8.208 mL	OK
		Consumption 4.2 R3	8.336 mL	OK
		Content R5	164.160 mg/L	OK
		ALK LOW R6	161.600 mg/L	OK
41	CCV	Sample size	50 mL	
		Potential R4	12.31 pH	OK
		Consumption 8.3 R1	5.205 mL	OK
		Consumption 4.5 R2	5.552 mL	OK
		Consumption 4.2 R3	5.554 mL	OK
		Content R5	111.040 mg/L	OK
		ALK LOW R6	111.000 mg/L	OK
42	CCB	Sample size	50 mL	
		Potential R4	5.87 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.096 mL	OK
		Consumption 4.2 R3	0.136 mL	OK
		Content R5	1.920 mg/L	OK
		ALK LOW R6	1.120 mg/L	OK
43	CCV	Sample size	50 mL	
		Potential R4	11.45 pH	OK
		Consumption 8.3 R1	4.852 mL	OK
		Consumption 4.5 R2	5.104 mL	OK
		Consumption 4.2 R3	5.112 mL	OK
		Content R5	102.080 mg/L	OK
		ALK LOW R6	101.920 mg/L	OK
44	CCB	Sample size	50 mL	
		Potential R4	5.66 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.099 mL	OK
		Consumption 4.2 R3	0.129 mL	OK
		Content R5	1.980 mg/L	OK
		ALK LOW R6	1.380 mg/L	OK

Statistics

R1

Mean	NaN mL		
Maximum	5.230 mL	**Minimum**	4.852 mL
Standard deviation	NaN mL	**Rel. standard deviation**	NaN %
Total samples	44	**Samples excluded**	0

R2

Titration report

Mean	NaN mL		
Maximum	17.349 mL	**Minimum**	0.096 mL
Standard deviation	NaN mL	**Rel. standard deviation**	NaN %
Total samples	44	**Samples excluded**	0

R3

Mean	NaN mL		
Maximum	17.606 mL	**Minimum**	0.129 mL
Standard deviation	NaN mL	**Rel. standard deviation**	NaN %
Total samples	44	**Samples excluded**	0

R4

Mean	6.72 pH		
Maximum	12.31 pH	**Minimum**	5.09 pH
Standard deviation	1.78 pH	**Rel. standard deviation**	26.548 %
Total samples	44	**Samples excluded**	0

R5

Mean	NaN mg/L		
Maximum	346.980 mg/L	**Minimum**	1.920 mg/L
Standard deviation	NaN mg/L	**Rel. standard deviation**	NaN %
Total samples	44	**Samples excluded**	0

R6

Mean	NaN mg/L		
Maximum	341.840 mg/L	**Minimum**	1.120 mg/L
Standard deviation	NaN mg/L	**Rel. standard deviation**	NaN %
Total samples	44	**Samples excluded**	0

Used Instruments

Name	T7 Excellence Titrator	**Serial number**	C329519495

Responsible User

Time	Login name	Full name
2/29/2024 9:23:18 AM	SystemInternal	System internal account

Quality Control

Form 6
Lab Duplicates

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Client Sample ID	: MW-8S	**Matrix**	: WATER
Lab Sample ID	: L2410579-08	**Analysis Date**	: 02/29/24 09:23
Dup Sample ID	: WG1890757-2	**DUP Analysis Date**	: 02/29/24 09:23

Parameter	Sample Concentration (mg CaCO3/L)	Duplicate Concentration (mg CaCO3/L)	RPD	RPD Limit
Alkalinity, Carbonate	ND	ND	NC	10

Form 6
Lab Duplicates

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Client Sample ID	: MW-8S	**Matrix**	: WATER
Lab Sample ID	: L2410579-08	**Analysis Date**	: 02/29/24 09:23
Dup Sample ID	: WG1890756-2	**DUP Analysis Date**	: 02/29/24 09:23

Parameter	Sample Concentration (mg CaCO3/L)	Duplicate Concentration (mg CaCO3/L)	RPD	RPD Limit
Alkalinity, Bicarbonate	80.8	79.2	2	9

Date Created: 11/11/21
Created By: Jason Hebert
File: PM11467-1
Page: 1

WETCHEM (WATER)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Method	Holding Time	Container/Sample Preservation
Alkalinity, Total	471-34-1	2		mg CaCO3/L	90-110	10	86-116	10	10	2320B	14 days	1 - Plastic 250ml unpreserved/No Headspace

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

Calculations of Alkalinity

$$\text{Alkalinity, mg } CaCO_3/L = \frac{A \times N \times 50{,}000}{\text{mL Sample}}$$

Where:

A = mL of the standard acid titrated

N = normality of the standard acid

Results are calculated using Mettler Toledo software.

Standard sample size is 50mL, 0.02N Sulfuric acid for titration

Sequence Logs

CAL	240229	LCS 7.0	7.01	INT:	MKT
pH 4	3295	Titrant:	4086		
pH 7	3239	LCS:	3257		
pH 10	3388	MS:	3255		
LCS	3257				

1	RINSE	42	CCB
2	RINSE	43	CCV
3	BLANK	44	CCB
4	LCS	45	
5	LCS	46	
6	l2410084-01	47	
7	l2410084-02	48	
8	l2410084-03	49	
9	l2410084-04	50	
10	l2410084-05	51	
11	l2410084-06	52	
12	l2410084-07	53	
13	l2410084-08	54	
14	l2410084-09	55	
15	l2410091-01	56	
16	l2410167-01	57	
17	DUP	58	
18	MS	59	
19	l2410167-02	60	
20	l2410257-01	61	
21	l2410258-01	62	
22	l2410258-02	63	
23	l2410258-03	64	
24	l2410258-04	65	
25	l2410258-05	66	
26	l2410258-06	67	
27	l2410258-07	68	
28	l2410573-18	69	
29	l2410579-01	70	
30	l2410579-02	71	
31	l2410579-03	72	
32	l2410579-04	73	
33	l2410579-05	74	
34	l2410579-06	75	
35	l2410579-07	76	
36	l2410579-08		
37	DUP		
38	l2410579-09		
39	l2410849-03		
40	l2410091-01 2X+10		
41	CCV		

Phosphates Analysis

Results

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2410579-01	**Date Collected**	: 02/26/24 14:10
Client ID	: MW-1S	**Date Received**	: 02/27/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 03/04/24 15:00
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500P-E(M)	**Analyst**	: MEF
Lab File ID	: WG1891917.csv	**Instrument ID**	: SPEEC3
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7723-14-0	Phosphate, Total	0.435	0.030	0.012	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2410579-02	**Date Collected**	: 02/26/24 15:25
Client ID	: MW-2S	**Date Received**	: 02/27/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 03/04/24 15:00
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500P-E(M)	**Analyst**	: MEF
Lab File ID	: WG1891917.csv	**Instrument ID**	: SPEEC3
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7723-14-0	Phosphate, Total	ND	0.030	0.012	U

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2410579-03	**Date Collected**	: 02/26/24 16:30
Client ID	: MW-3S	**Date Received**	: 02/27/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 03/04/24 15:00
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500P-E(M)	**Analyst**	: MEF
Lab File ID	: WG1891917.csv	**Instrument ID**	: SPEEC3
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7723-14-0	Phosphate, Total	0.055	0.030	0.012	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2410579-04	**Date Collected**	: 02/27/24 09:05
Client ID	: MW-4D	**Date Received**	: 02/27/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 03/04/24 15:00
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500P-E(M)	**Analyst**	: MEF
Lab File ID	: WG1891917.csv	**Instrument ID**	: SPEEC3
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7723-14-0	Phosphate, Total	0.022	0.030	0.012	J

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2410579-05	**Date Collected**	: 02/27/24 08:40
Client ID	: MW-5S	**Date Received**	: 02/27/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 03/04/24 15:00
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500P-E(M)	**Analyst**	: MEF
Lab File ID	: WG1891917.csv	**Instrument ID**	: SPEEC3
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7723-14-0	Phosphate, Total	0.327	0.030	0.012	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2410579-06	**Date Collected**	: 02/26/24 16:35
Client ID	: MW-6D	**Date Received**	: 02/27/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 03/04/24 15:00
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500P-E(M)	**Analyst**	: MEF
Lab File ID	: WG1891917.csv	**Instrument ID**	: SPEEC3
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7723-14-0	Phosphate, Total	0.058	0.030	0.012	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2410579-07	**Date Collected**	: 02/26/24 14:45
Client ID	: MW-7S	**Date Received**	: 02/27/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 03/04/24 15:00
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500P-E(M)	**Analyst**	: MEF
Lab File ID	: WG1891917.csv	**Instrument ID**	: SPEEC3
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7723-14-0	Phosphate, Total	ND	0.030	0.012	U

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2410579-08	**Date Collected**	: 02/27/24 10:25
Client ID	: MW-8S	**Date Received**	: 02/27/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 03/04/24 15:00
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500P-E(M)	**Analyst**	: MEF
Lab File ID	: WG1891917.csv	**Instrument ID**	: SPEEC3
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7723-14-0	Phosphate, Total	0.838	0.030	0.012	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2410579-09	**Date Collected**	: 02/26/24 00:00
Client ID	: DUP	**Date Received**	: 02/27/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 03/04/24 15:00
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500P-E(M)	**Analyst**	: MEF
Lab File ID	: WG1891917.csv	**Instrument ID**	: SPEEC3
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7723-14-0	Phosphate, Total	0.115	0.030	0.012	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: WG1891917-1	**Date Collected**	: NA
Client ID	: WG1891917-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 03/04/24 15:00
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500P-E(M)	**Analyst**	: MEF
Lab File ID	: WG1891917.csv	**Instrument ID**	: SPEEC3
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7723-14-0	Phosphate, Total	ND	0.030	0.012	U

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: WG1891917-3	**Date Collected**	: 02/27/24 09:05
Client ID	: MW-4DDUP	**Date Received**	: 02/27/24
Sample Location	:	**Date Analyzed**	: 03/04/24 15:00
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500P-E(M)	**Analyst**	: MEF
Lab File ID	: WG1891917.csv	**Instrument ID**	: SPEEC3
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7723-14-0	Phosphate, Total	0.031	0.030	0.012	

Sample Raw Data

ALPHA ANALYTICAL LABS

WET CHEMISTRY DEPARTMENT

TOTAL PHOSPHATE

Last Change 3/5/13

File tphosphate-L.xlt

Combined Reagents
ascorbic acid: 030224-aa
5N h2so4: 022824-5nh2so4
k tartrate: 030424-kt
ammonium molybdate:L 022724-am

LCS: WC 3414- 022824
curve/spike: WC3417-021224

Sample Number: _____ **Product:** **TPO4-4500**
Curve Calibration Date : 3/4/2024
Client: _____ **Curve Identifier:** 3042024
Analysis: **Total Phosphate** **Analyte:** **Phosphate, Total**
Method: **Analysis Date:** 3/4/24 15:00
Instrument: **SPEEC3** **Technician:** MEF
Wavelength: **880 nm** **Work group:** WG1891917
Spike Volume(ml): **154** **MDL:** **0.03 mg/l**
Spike Concentration (mg/l): **0.5**

Standard ID	Mean signal (pk area) abs
0	0.004
0.0307	0.016
0.123	0.084
0.307	0.145
1.54	0.661
3.07	1.299

Calibration Curve
Volume: 50 ml

Slope	y-intercept
0.419124	0.0139583

Correlation Coefficient
0.999788

ICV/LCS Concentration (mg/l) = 1.535

	Sample number	Sample Volume (ml)	Final Volume (ml)	Absorbance	RESULT (mg/l)	Dilution Factor	MDL Multiplier	FINAL RESULT (mg/l)	
	ICB	50	50	0.004	-0.023	1	1	0.000	**Recovery %**
	ICV	50	50	0.598	1.393	1	1	1.393	91%
	BLANK	50	50	0.005	-0.021	1	1	0.000	**Recovery %**
	LCS	50	50	0.604	1.408	1	1	1.408	92%
	L2410579-01	50	50	0.196	0.435	1	1	0.435	
	L2410579-02	50	50	0.010	-0.009	1	1	0.000	
	L2410579-03	50	50	0.037	0.055	1	1	0.055	
	L2410579-04	50	50	0.023	0.022	1	1	0.022	
	L2410579-05	50	50	0.151	0.327	1	1	0.327	
	L2410579-06	50	50	0.038	0.058	1	1	0.058	
	CCV	50	50	0.609	1.419	1	1	1.419	
	CCB	50	50	0.003	-0.026	1	1	0.000	
	L2410579-07	50	50	0.010	-0.009	1	1	0.000	
	L2410579-08	50	50	0.365	0.838	1	1	0.838	
	L2410579-09	50	50	0.062	0.115	1	1	0.115	
	CCV	50	50	0.612	1.427	1	1	1.427	
	CCB	50	50	0.003	-0.026	1	1	0.000	
		50	50			1	1		
		50	50			1	1		
		50	50			1	1		
		50	50			1	1		
		50	50			1	1		
		50	50			1	1		
		50	50			1	1		
		50	50			1	1		
		50	50			1	1		
BLANK	WG1891917-1	50	50	0.004	-0.023	1	1	0.000	
DUP	WG1891917-3	50	50	0.027	0.031	1	1	0.031	**L2410579-04**

	Sample number	sample volume	Final volume (ml)	Absorbance	Sample Result mg/l	Dilution Factor	Spike conc. mg/l	Spike Result mg/l	Recovery %
MS	WG1891917-4	50	50	0.657	0.000	1	1.54	1.534	100
LCS	WG1891917-2	50	50	0.604		1	1.535	1.393	92

Quality Control

Form 5a
Matrix Spike

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Client Sample ID	: MW-4D	**Matrix**	: WATER
Lab Sample ID	: L2410579-04		
Matrix Spike	: WG1891917-4	**MS Analysis Date**	: 03/04/24 15:00
Matrix Spike Dup	:	**MSD Analysis Date**	:

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	Sample Conc. (mg/l)	Spike Added (mg/l)	Spike Conc. (mg/l)	%R	Spike Added (mg/l)	Spike Conc. (mg/l)	%R	RPD	Recovery Limits	RPD Limit
Phosphate, Total	0.022J	1.54	1.53	100					80-120	15

Form 6
Lab Duplicates

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Client Sample ID	: MW-4D	**Matrix**	: WATER
Lab Sample ID	: L2410579-04	**Analysis Date**	: 03/04/24 15:00
Dup Sample ID	: WG1891917-3	**DUP Analysis Date**	: 03/04/24 15:00

Parameter	Sample Concentration (mg/l)	Duplicate Concentration (mg/l)	RPD	RPD Limit
Phosphate, Total	0.022J	0.031	NC	15

Form 7
Laboratory Control Sample

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: WG1891917-2	**LCS Analysis Date**	: 03/04/24 15:00
Dup Sample ID	:	**LCSD Analysis Date**	:

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	**True (mg/l)**	**Found (mg/l)**	**%R**	**True (mg/l)**	**Found (mg/l)**	**%R**	**RPD**	**Recovery Limits**	**RPD Limit**
Phosphate, Total	**1.54**	**1.39**	**91.**					**84-118**	**15**

Date Created: 11/11/21
Created By: Jason Hebert
File: PM11467-1
Page: 1

WETCHEM (WATER)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Method	Holding Time	Container/Sample Preservation
Phosphorus, Total	7723-14-0	0.01	0.004	mg/l	80-120		75-125	20	20	4500P-E	28 days	1 - Plastic 500ml H2SO4 preserved

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

Date Created: 11/11/21
Created By: Jason Hebert
File: PM11468-1
Page: 1

WETCHEM (SOIL)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Method	Holding Time	Container/Sample Preservation
Phosphorus, Total	7723-14-0	5	1.67	mg/kg	52-148	20	75-125	20	20	4500P-E	28 days	1 - Glass 250ml/8oz unpreserved

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

Date Created: 11/11/21
Created By: Jason Hebert
File: PM11467-1
Page: 1

WETCHEM (WATER)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Method	Holding Time	Container/Sample Preservation
Phosphorus, Orthophosphate	7723-14-0	0.005	0.001	mg/l	90-110		80-120	20	20	4500P-E	48 hours	1 - Plastic 500ml unpreserved

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

Date Created: 11/11/21
Created By: Jason Hebert
File: PM11468-1
Page: 1

WETCHEM (SOIL)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Method	Holding Time	Container/Sample Preservation
Phosphorus, Orthophosphate	7723-14-0	0.05	0.05	mg/kg						4500P-E	48 hours	1 - Glass 250ml/8oz unpreserved

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

Calculations of TPhosphorus

Aqueous samples:

Calculate the concentration value of the sample directly from the standard curve. All calculations are done by SEAL (segmant flow spectrometer).

$$\text{Mg TPhosphorus/L} = \frac{\text{absorbance - y-intercept}}{\text{slope}} \times \text{Dilution Factor}$$

Wet Chemistry
By
IC Methods

Results

Form 1
WETCHEM

Client	:	**Alpha Geoscience**	**Lab Number**	:	**L2410579**
Project Name	:	**HUNTINGTON READY MIX**	**Project Number**	:	**20116**
Lab ID	:	**L2410579-01**	**Date Collected**	:	**02/26/24 14:10**
Client ID	:	**MW-1S**	**Date Received**	:	**02/27/24**
Sample Location	:	**SPEONK, NY**	**Date Analyzed**	:	**02/29/24 21:46**
Sample Matrix	:	**WATER**	**Dilution Factor**	:	**10**
Analytical Method	:	**44,300.0**	**Analyst**	:	**CVN,**
Lab File ID	:	**WG1890909**	**Instrument ID**	:	**IC3**
Sample Amount	:		**%Solids**	:	**N/A**
Digestion Method	:		**Date Digested**	:	

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
14808-79-8	**Sulfate**	**195.**	**10.0**	**4.54**	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2410579-01	**Date Collected**	: 02/26/24 14:10
Client ID	: MW-1S	**Date Received**	: 02/27/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 02/29/24 17:10
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 44,300.0	**Analyst**	: CVN,
Lab File ID	: WG1890909	**Instrument ID**	: IC3
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
24959-67-9	Bromide	0.152	0.050	0.013	
16887-00-6	Chloride	29.0	0.500	0.083	
16984-48-8	Fluoride	0.103	0.050	0.037	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2410579-02	**Date Collected**	: 02/26/24 15:25
Client ID	: MW-2S	**Date Received**	: 02/27/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 02/29/24 21:35
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 44,300.0	**Analyst**	: CVN,
Lab File ID	: WG1890909	**Instrument ID**	: IC3
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
24959-67-9	Bromide	0.131	0.050	0.013	
16887-00-6	Chloride	9.80	0.500	0.083	
16984-48-8	Fluoride	0.059	0.050	0.037	
14808-79-8	Sulfate	58.8	1.00	0.454	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2410579-03	**Date Collected**	: 02/26/24 16:30
Client ID	: MW-3S	**Date Received**	: 02/27/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 02/29/24 21:57
Sample Matrix	: WATER	**Dilution Factor**	: 10
Analytical Method	: 44,300.0	**Analyst**	: CVN,
Lab File ID	: WG1890909	**Instrument ID**	: IC3
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
14808-79-8	Sulfate	128.	10.0	4.54	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2410579-03	**Date Collected**	: 02/26/24 16:30
Client ID	: MW-3S	**Date Received**	: 02/27/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 02/29/24 17:32
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 44,300.0	**Analyst**	: CVN,
Lab File ID	: WG1890909	**Instrument ID**	: IC3
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
24959-67-9	Bromide	0.129	0.050	0.013	
16887-00-6	Chloride	13.9	0.500	0.083	
16984-48-8	Fluoride	0.062	0.050	0.037	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2410579-04	**Date Collected**	: 02/27/24 09:05
Client ID	: MW-4D	**Date Received**	: 02/27/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 02/29/24 17:43
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 44,300.0	**Analyst**	: CVN,
Lab File ID	: WG1890909	**Instrument ID**	: IC3
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
24959-67-9	Bromide	0.187	0.050	0.013	
16984-48-8	Fluoride	ND	0.050	0.037	U
14808-79-8	Sulfate	7.20	1.00	0.454	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2410579-04	**Date Collected**	: 02/27/24 09:05
Client ID	: MW-4D	**Date Received**	: 02/27/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 02/29/24 22:08
Sample Matrix	: WATER	**Dilution Factor**	: 10
Analytical Method	: 44,300.0	**Analyst**	: CVN,
Lab File ID	: WG1890909	**Instrument ID**	: IC3
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
16887-00-6	Chloride	136.	5.00	0.839	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2410579-05	**Date Collected**	: 02/27/24 08:40
Client ID	: MW-5S	**Date Received**	: 02/27/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 02/29/24 17:54
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 44,300.0	**Analyst**	: CVN,
Lab File ID	: WG1890909	**Instrument ID**	: IC3
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
24959-67-9	Bromide	0.217	0.050	0.013	
16887-00-6	Chloride	30.5	0.500	0.083	
16984-48-8	Fluoride	ND	0.050	0.037	U
14808-79-8	Sulfate	87.7	1.00	0.454	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2410579-06	**Date Collected**	: 02/26/24 16:35
Client ID	: MW-6D	**Date Received**	: 02/27/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 02/29/24 18:16
Sample Matrix	: WATER	**Dilution Factor**	: 10
Analytical Method	: 44,300.0	**Analyst**	: CVN,
Lab File ID	: WG1890909	**Instrument ID**	: IC3
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
16887-00-6	Chloride	50.3	5.00	0.839	
14808-79-8	Sulfate	126.	10.0	4.54	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2410579-06	**Date Collected**	: 02/26/24 16:35
Client ID	: MW-6D	**Date Received**	: 02/27/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 02/29/24 18:05
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 44,300.0	**Analyst**	: CVN,
Lab File ID	: WG1890909	**Instrument ID**	: IC3
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
24959-67-9	Bromide	0.456	0.050	0.013	
16984-48-8	Fluoride	ND	0.050	0.037	U

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2410579-07	**Date Collected**	: 02/26/24 14:45
Client ID	: MW-7S	**Date Received**	: 02/27/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 02/29/24 18:48
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 44,300.0	**Analyst**	: CVN,
Lab File ID	: WG1890909	**Instrument ID**	: IC3
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
24959-67-9	Bromide	0.276	0.050	0.013	
16887-00-6	Chloride	27.1	0.500	0.083	
16984-48-8	Fluoride	ND	0.050	0.037	U

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2410579-07	**Date Collected**	: 02/26/24 14:45
Client ID	: MW-7S	**Date Received**	: 02/27/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 02/29/24 22:19
Sample Matrix	: WATER	**Dilution Factor**	: 10
Analytical Method	: 44,300.0	**Analyst**	: CVN,
Lab File ID	: WG1890909	**Instrument ID**	: IC3
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
14808-79-8	Sulfate	117.	10.0	4.54	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2410579-08	**Date Collected**	: 02/27/24 10:25
Client ID	: MW-8S	**Date Received**	: 02/27/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 02/29/24 18:59
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 44,300.0	**Analyst**	: CVN,
Lab File ID	: WG1890909	**Instrument ID**	: IC3
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
24959-67-9	Bromide	0.258	0.050	0.013	
16887-00-6	Chloride	48.1	0.500	0.083	
16984-48-8	Fluoride	ND	0.050	0.037	U
14808-79-8	Sulfate	74.7	1.00	0.454	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2410579-09	**Date Collected**	: 02/26/24 00:00
Client ID	: DUP	**Date Received**	: 02/27/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 02/29/24 19:21
Sample Matrix	: WATER	**Dilution Factor**	: 10
Analytical Method	: 44,300.0	**Analyst**	: CVN,
Lab File ID	: WG1890909	**Instrument ID**	: IC3
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
16887-00-6	Chloride	50.8	5.00	0.839	
14808-79-8	Sulfate	128.	10.0	4.54	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2410579-09	**Date Collected**	: 02/26/24 00:00
Client ID	: DUP	**Date Received**	: 02/27/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 02/29/24 19:10
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 44,300.0	**Analyst**	: CVN,
Lab File ID	: WG1890909	**Instrument ID**	: IC3
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
24959-67-9	Bromide	0.401	0.050	0.013	
16984-48-8	Fluoride	ND	0.050	0.037	U

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: WG1890909-1	**Date Collected**	: NA
Client ID	: WG1890909-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 02/29/24 14:42
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 44,300.0	**Analyst**	: CVN,
Lab File ID	: WG1890909	**Instrument ID**	: IC3
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
24959-67-9	Bromide	ND	0.050	0.013	U
16887-00-6	Chloride	ND	0.500	0.083	U
16984-48-8	Fluoride	ND	0.050	0.037	U
14808-79-8	Sulfate	ND	1.00	0.454	U

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: WG1890909-4	**Date Collected**	: 02/26/24 15:25
Client ID	: MW-2SDUP	**Date Received**	: 02/27/24
Sample Location	:	**Date Analyzed**	: 02/29/24 21:24
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 44,300.0	**Analyst**	: CVN,
Lab File ID	: WG1890909	**Instrument ID**	: IC3
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

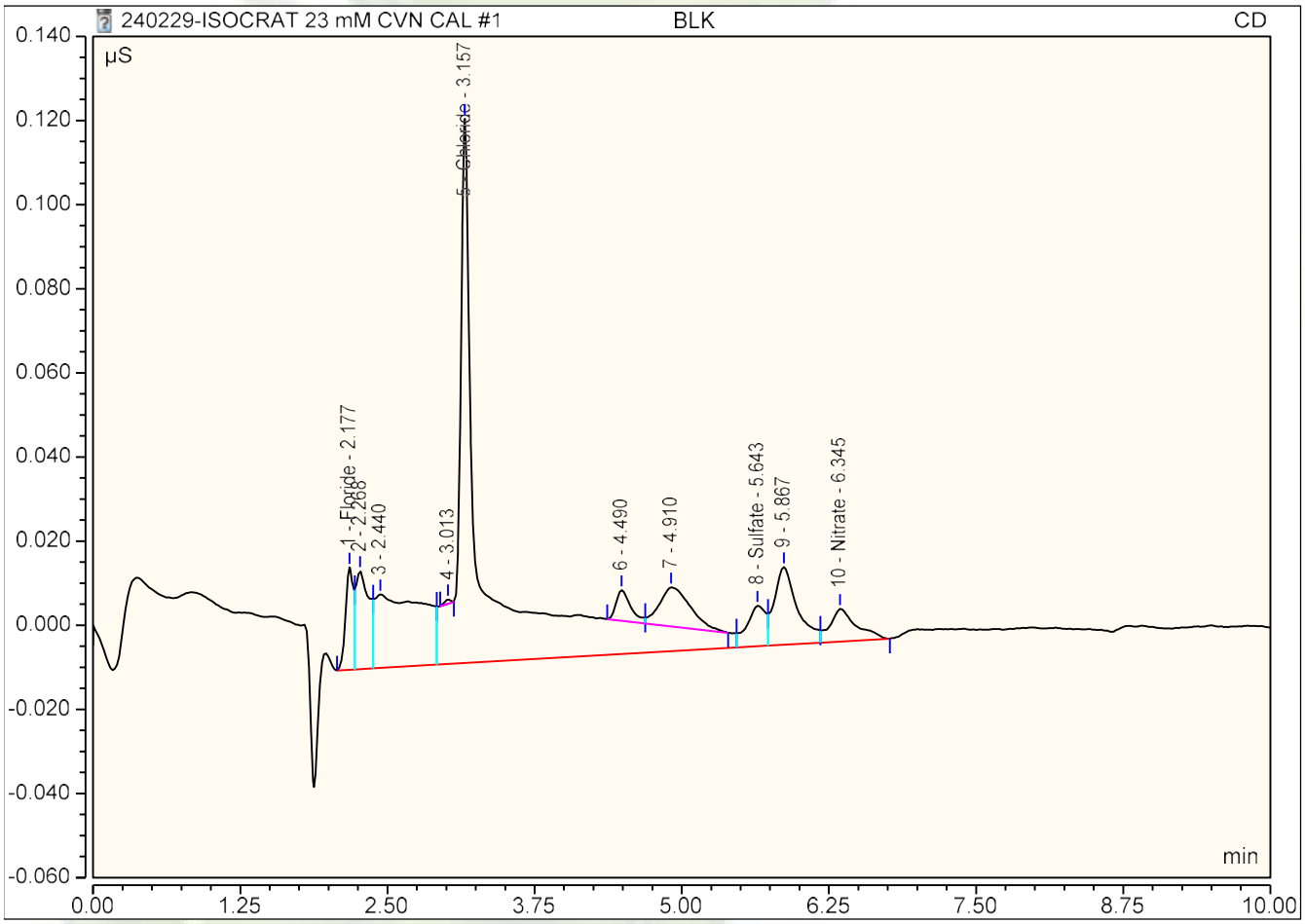
		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
14808-79-8	Sulfate	59.4	1.00	0.454	
16887-00-6	Chloride	9.91	0.500	0.084	
24959-67-9	Bromide	0.131	0.050	0.013	
16984-48-8	Fluoride	0.060	0.050	0.037	

Sample Raw Data

Peak Integration Report

Sample Name:	**BLK**	*Inj. Vol.:*	**5000.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**IC 3 method 23 mM**	*Operator:*	**Wetchem25**
Inj. Date / Time:	**29-Feb-2024 / 12:25**	*Run Time:*	**10.00**

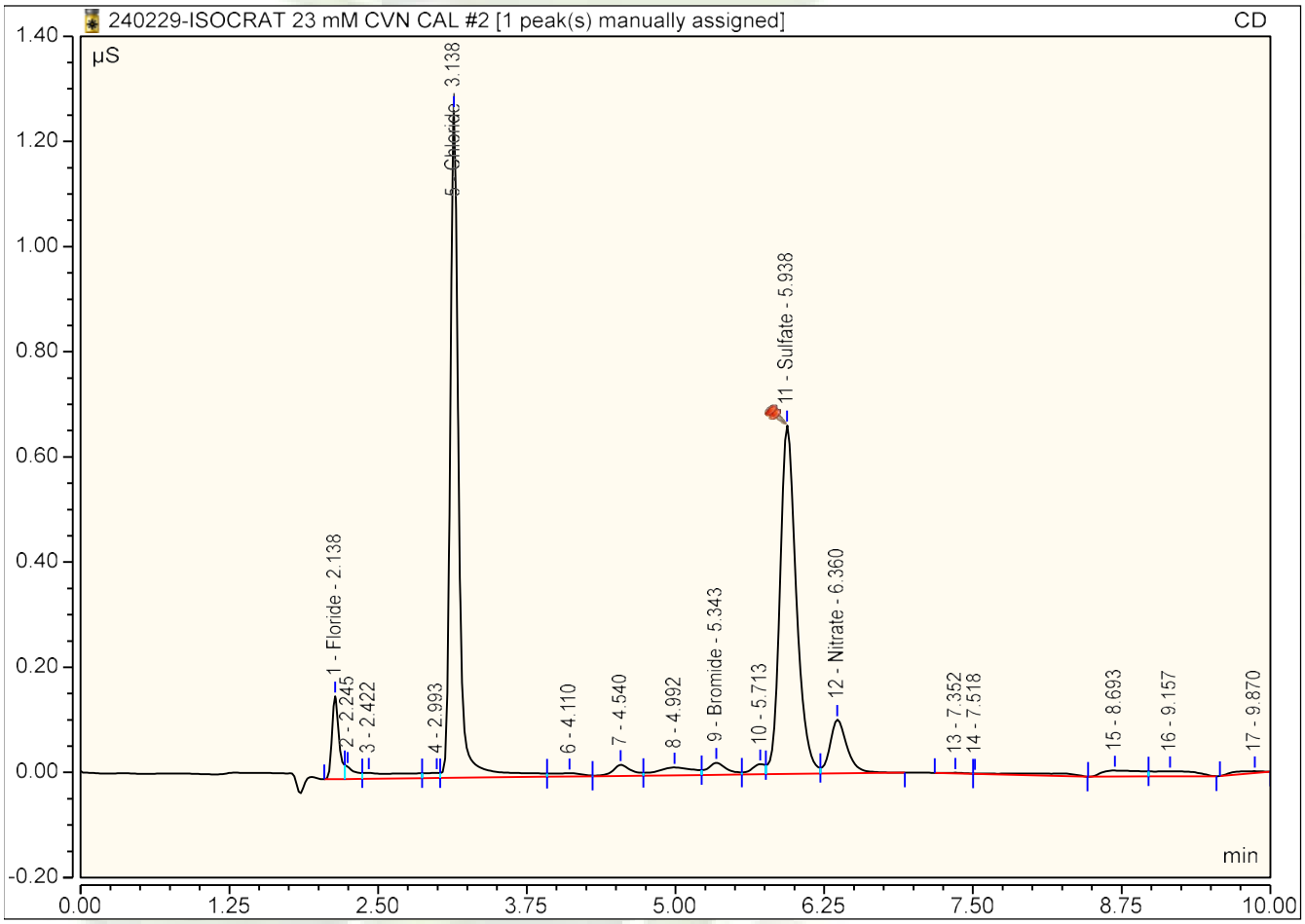
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
1	2.18	**Floride**	BM	0.002	0.024	0.0024
5	3.16	**Chloride**	M	0.033	0.129	0.0784
8	5.64	**Sulfate**	M	0.002	0.010	0.1428
10	6.35	**Nitrate**	MB	0.002	0.008	0.0168
TOTAL:				0.04	0.17	0.24



Peak Integration Report

Sample Name:	**STD 0.5**	*Inj. Vol.:*	**5000.00**
Injection Type:	**Calibration Standard**	*Dilution Factor:*	**1.0000**
Instrument Method:	**IC 3 method 23 mM**	*Operator:*	**Wetchem25**
Inj. Date / Time:	**29-Feb-2024 / 12:36**	*Run Time:*	**10.00**

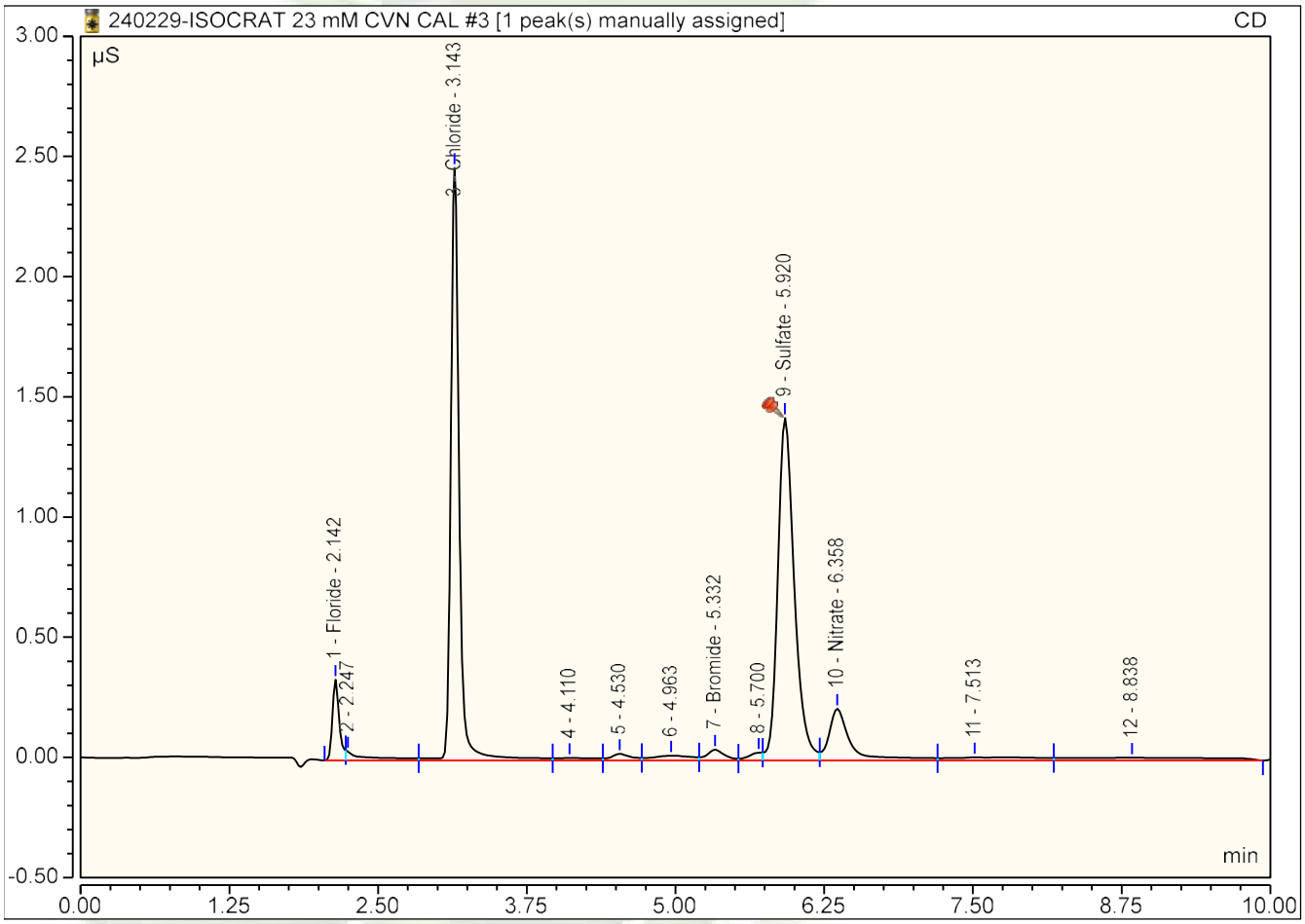
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
1	2.14	**Floride**	BM	0.011	0.158	0.0184
5	3.14	**Chloride**	M	0.106	1.269	0.2840
9	5.34	**Bromide**	M	0.004	0.023	0.0452
11	5.94	**Sulfate**	M ^	0.106	0.663	0.5468
12	6.36	**Nitrate**	MB	0.017	0.102	0.0335
TOTAL:				0.24	2.21	0.93



Peak Integration Report

Sample Name:	**STD 1.0**	*Inj. Vol.:*	**5000.00**
Injection Type:	**Calibration Standard**	*Dilution Factor:*	**1.0000**
Instrument Method:	**IC 3 method 23 mM**	*Operator:*	**Wetchem25**
Inj. Date / Time:	**29-Feb-2024 / 12:47**	*Run Time:*	**10.00**

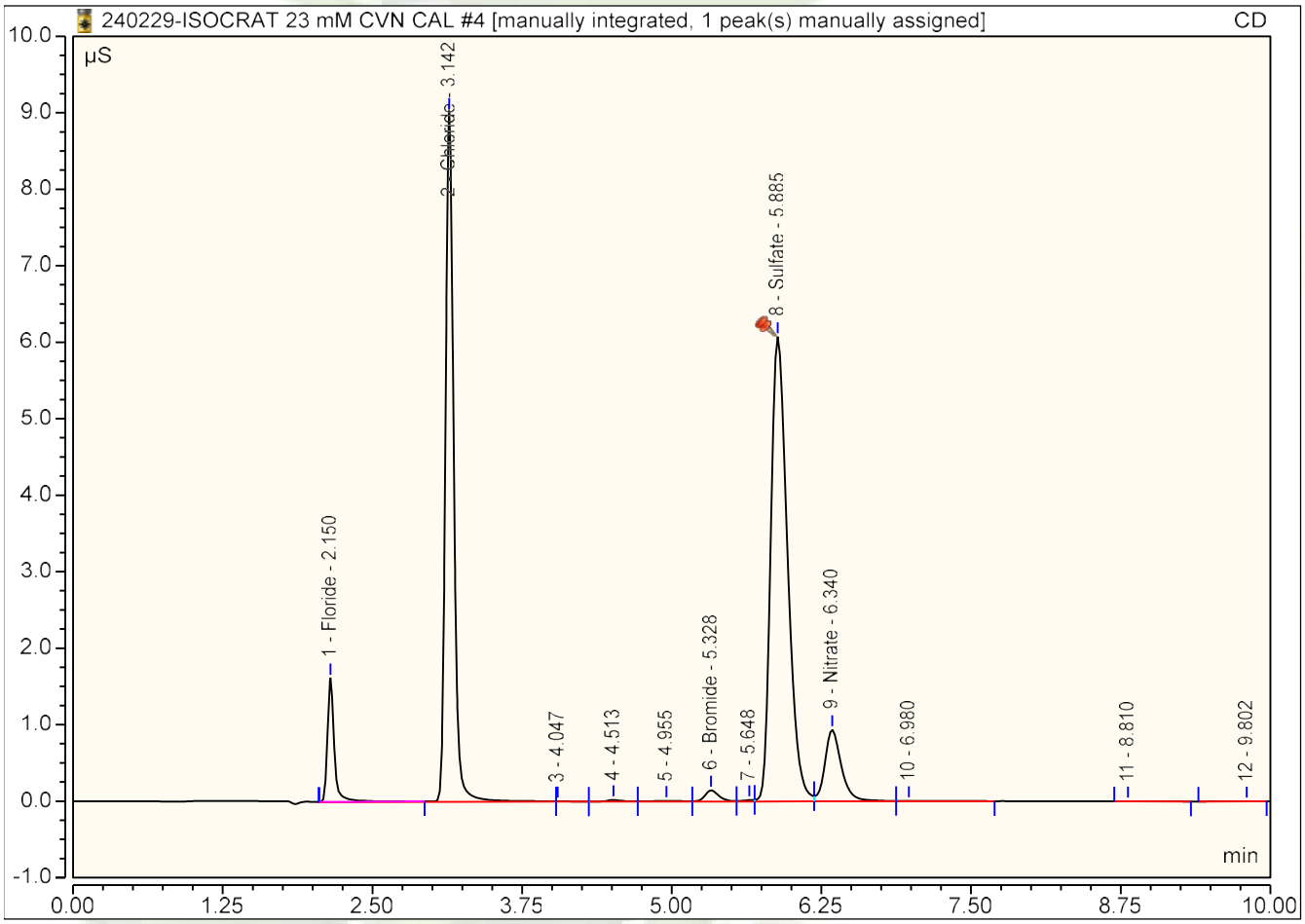
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
1	2.14	**Floride**	BM	0.022	0.336	0.0391
3	3.14	**Chloride**	M	0.204	2.465	0.5567
7	5.33	**Bromide**	M	0.008	0.045	0.0739
9	5.92	**Sulfate**	M ^	0.230	1.425	1.0288
10	6.36	**Nitrate**	M	0.046	0.215	0.0650
TOTAL:				0.51	4.49	1.76



Peak Integration Report

Sample Name:	**STD 2.0**	*Inj. Vol.:*	**5000.00**
Injection Type:	**Calibration Standard**	*Dilution Factor:*	**1.0000**
Instrument Method:	**IC 3 method 23 mM**	*Operator:*	**Wetchem25**
Inj. Date / Time:	**29-Feb-2024 / 12:58**	*Run Time:*	**10.00**

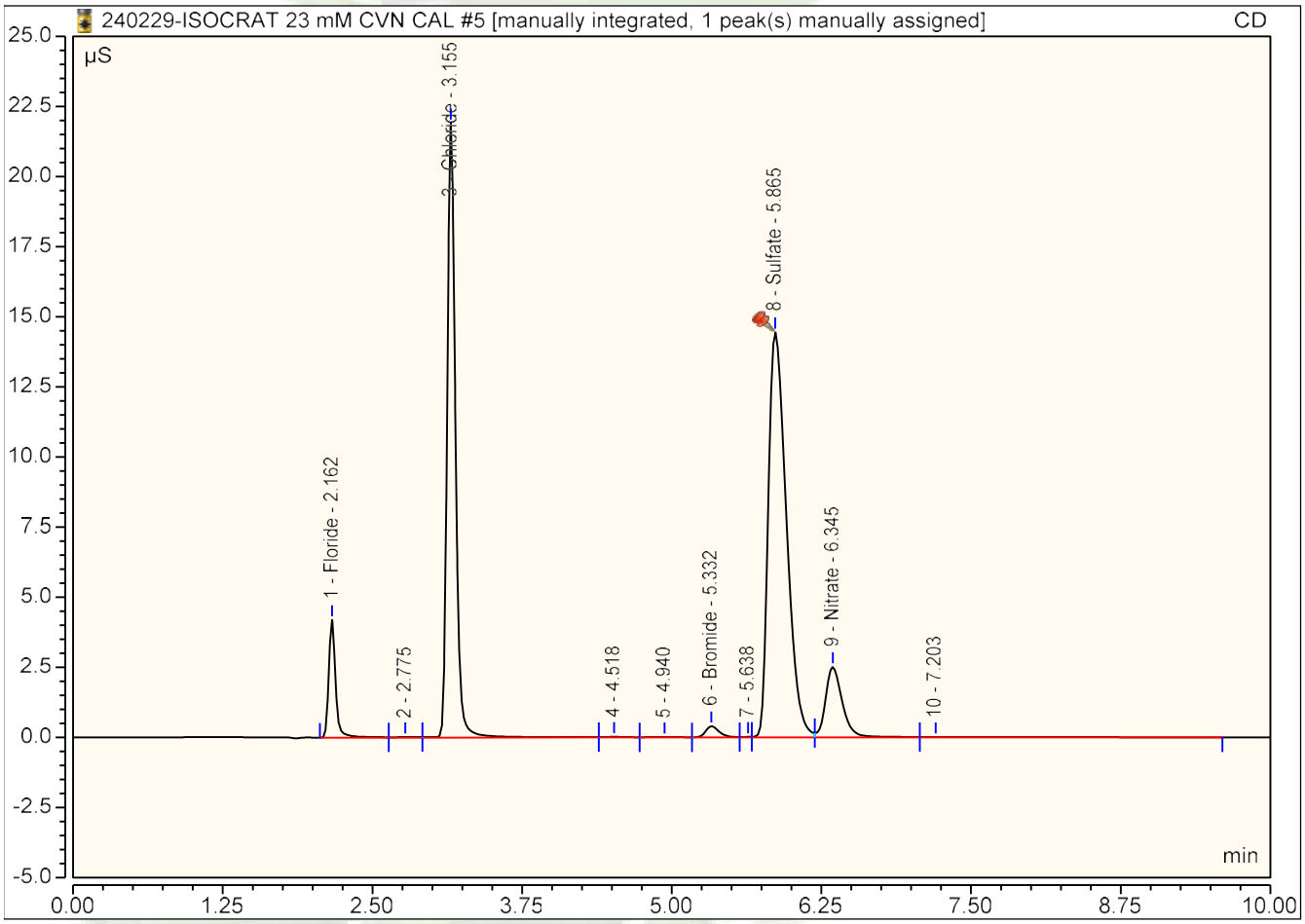
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
1	2.15	**Floride**	Ru	0.108	1.617	0.1946
2	3.14	**Chloride**	BM	0.727	9.010	2.0264
6	5.33	**Bromide**	M	0.020	0.147	0.1735
8	5.89	**Sulfate**	M *^	0.992	6.073	3.9909
9	6.34	**Nitrate**	M *	0.151	0.936	0.1809
TOTAL:				2.00	17.78	6.57



Peak Integration Report

Sample Name:	**STD 3.0**	*Inj. Vol.:*	**5000.00**
Injection Type:	**Calibration Standard**	*Dilution Factor:*	**1.0000**
Instrument Method:	**IC 3 method 23 mM**	*Operator:*	**Wetchem25**
Inj. Date / Time:	**29-Feb-2024 / 13:09**	*Run Time:*	**10.00**

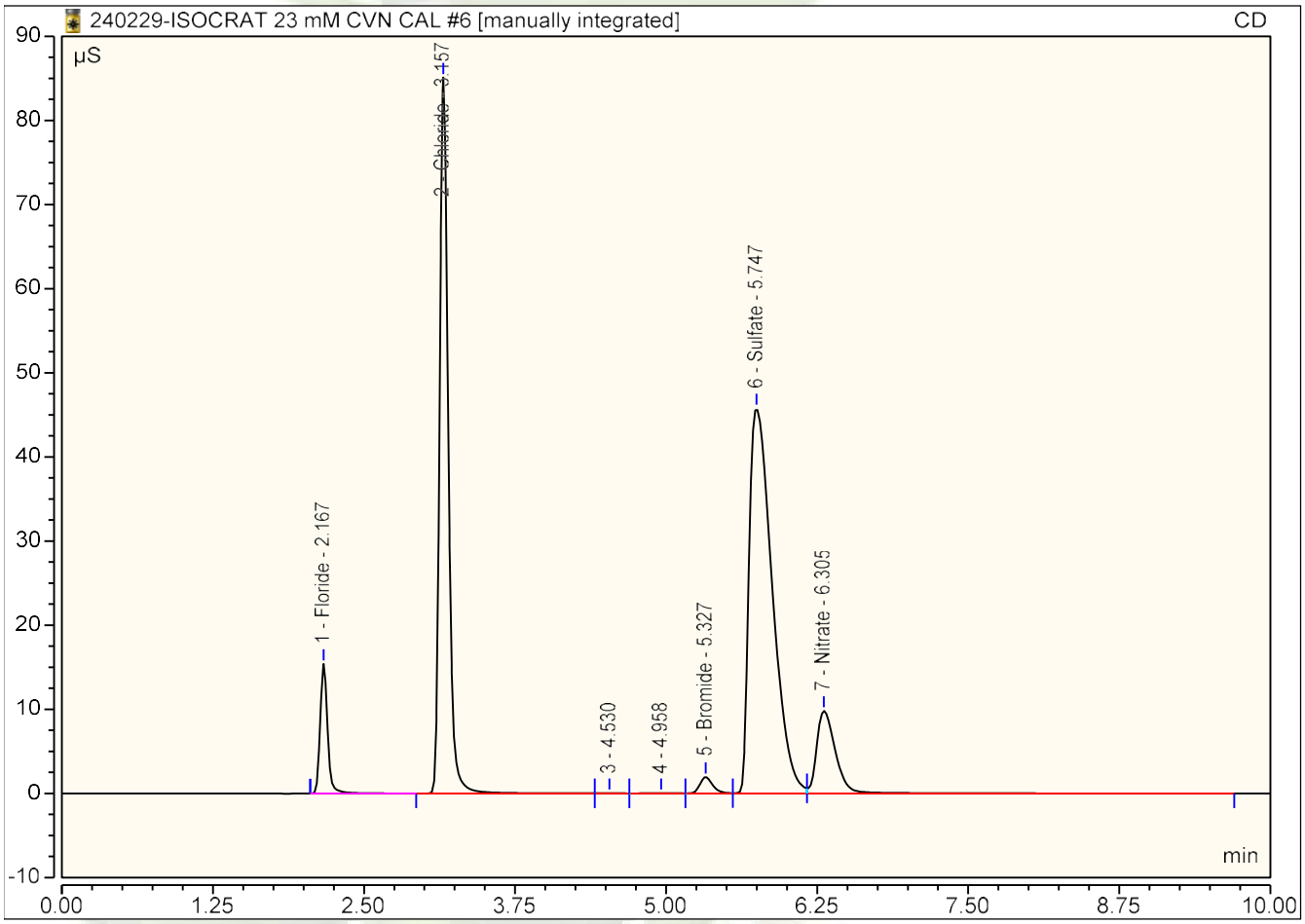
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
1	2.16	**Floride**	BM	0.281	4.200	0.5092
3	3.16	**Chloride**	M	1.779	21.908	4.9750
6	5.33	**Bromide**	M	0.055	0.407	0.4597
8	5.87	**Sulfate**	M *^	2.546	14.452	10.0330
9	6.35	**Nitrate**	M *	0.416	2.514	0.4734
TOTAL:				5.08	43.48	16.45



Peak Integration Report

Sample Name:	**STD 4.0**	*Inj. Vol.:*	**5000.00**
Injection Type:	**Calibration Standard**	*Dilution Factor:*	**1.0000**
Instrument Method:	**IC 3 method 23 mM**	*Operator:*	**Wetchem25**
Inj. Date / Time:	**29-Feb-2024 / 13:19**	*Run Time:*	**10.00**

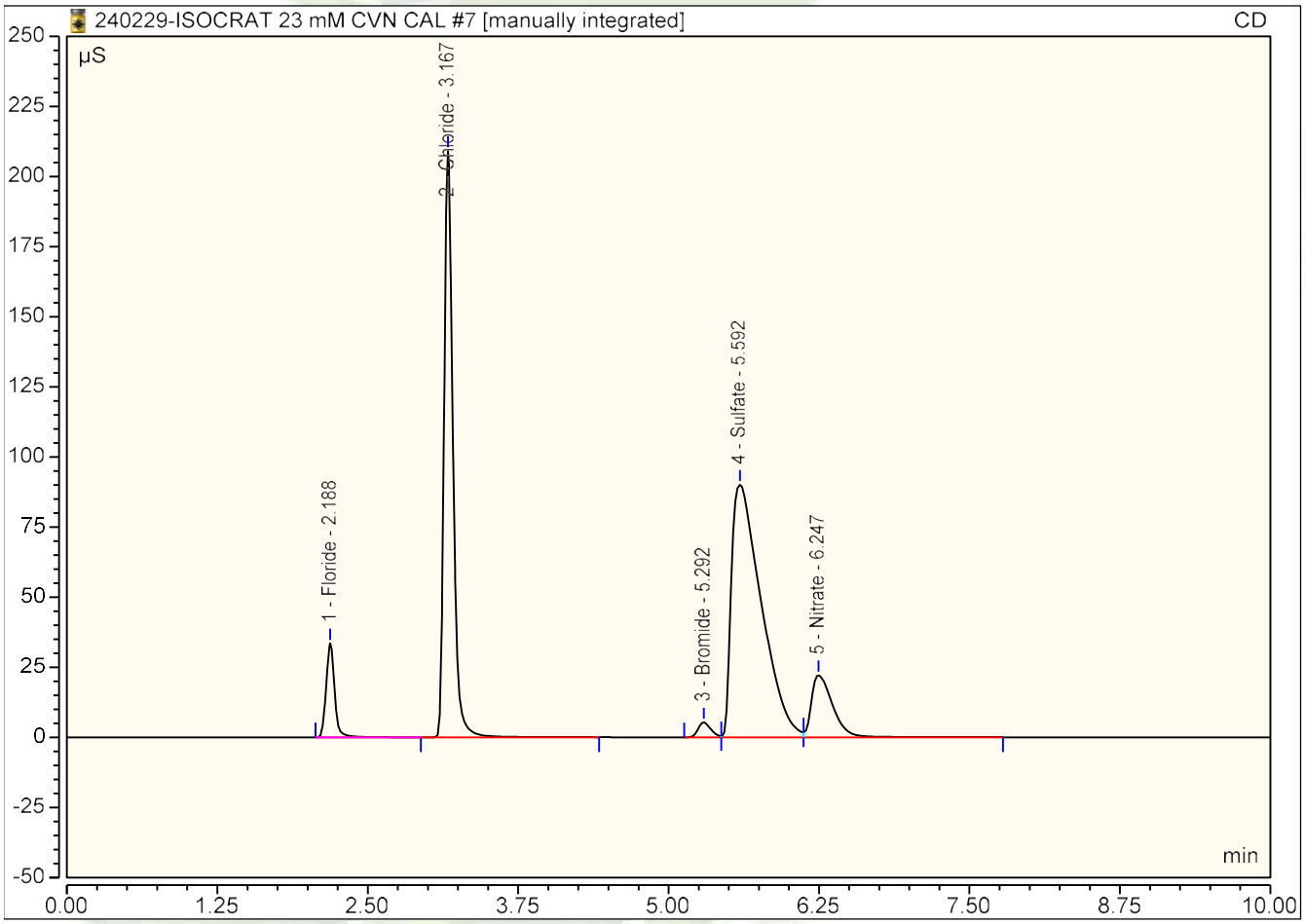
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
1	2.17	**Floride**	Ru	1.116	15.402	2.0255
2	3.16	**Chloride**	BM	7.088	85.090	19.8690
5	5.33	**Bromide**	M	0.246	1.954	2.0119
6	5.75	**Sulfate**	M *	10.157	45.779	39.6138
7	6.31	**Nitrate**	MB*	1.806	9.826	2.0073
TOTAL:				20.41	158.05	65.53



Peak Integration Report

Sample Name:	**STD 5.0**	*Inj. Vol.:*	**5000.00**
Injection Type:	**Calibration Standard**	*Dilution Factor:*	**1.0000**
Instrument Method:	**IC 3 method 23 mM**	*Operator:*	**Wetchem25**
Inj. Date / Time:	**29-Feb-2024 / 13:30**	*Run Time:*	**10.00**

No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
1	2.19	**Floride**	Ru	2.749	33.511	4.9892
2	3.17	**Chloride**	BMB	17.849	209.105	50.0531
3	5.29	**Bromide**	BM	0.647	5.300	5.2799
4	5.59	**Sulfate**	M *	25.731	90.099	100.1510
5	6.25	**Nitrate**	MB	4.517	22.125	5.0003
TOTAL:				51.49	360.14	165.47



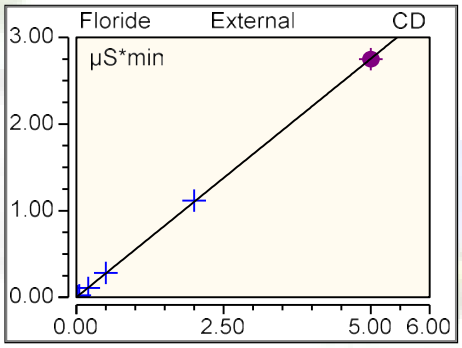
Calibration Batch Report

Sequence:	**240229-ISOCRAT 23 mM CVN CAL**	*Injection Volume:*	**5,000.00**
Instrument Method:	**IC 3 method 23 mM**	*Operator:*	**Wetchem25**
Inj. Date / Time:	**29-Feb-2024 / 13:30**	*Run Time:*	**10**

Calibration Summary

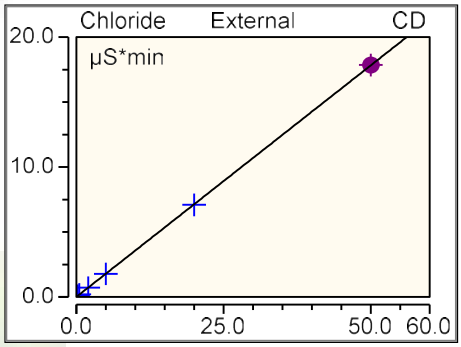
Peak Name	Eval.Type	Cal.Type	Points	Offset (C0)	Slope (C1)	Curve (C2)	Coeff.Det. %
Floride	Area	Lin, AddZero	7.000	0.001	0.551	0.000	99.9949
Chloride	Area	Lin, AddZero	7.000	0.005	0.356	0.000	99.9987
Bromide	Area	Lin, AddZero	6.000	-0.001	0.123	0.000	99.8819
Sulfate	Area	Lin, AddZero	7.000	-0.035	0.257	0.000	99.9976
Nitrate	Area	Lin, AddZero	7.000	-0.013	0.906	0.000	99.9921
		AVERAGE:		-0.0088	0.4387	0.0000	99.9731

Injection Name	Ret.Time min CD	Area µS*min CD	Height µS CD	Amount CD
	Floride	Floride	Floride	Floride
STD 0.5	2.138	0.0107	0.158	0.018
STD 1.0	2.142	0.0221	0.336	0.039
STD 2.0	2.150	0.1077	1.617	0.195
STD 3.0	2.162	0.2810	4.200	0.509
STD 4.0	2.167	1.1163	15.402	2.026
STD 5.0	2.188	2.7487	33.511	4.989
Average	2.158			
Rel. Std. Dev.	0.861 %			

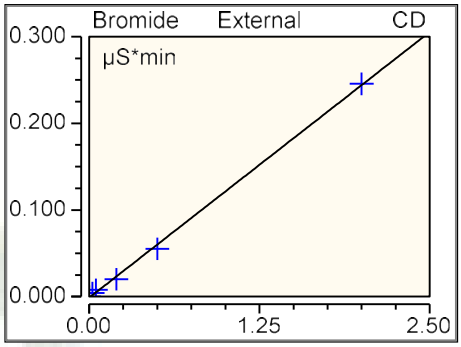


No.	Peak Name	Ret. Time	Window	Standard	Eval.Type	Cal. Type	Peak Type
1	Floride	2.150	0.249 AN	External	Area	Lin, AddZ	Ru
2	Chloride	3.150	0.692 AN	External	Area	Lin, AddZ	BMB
3	Bromide	5.320	0.290 AF	External	Area	Lin, AddZ	BM
4	Sulfate	5.800	0.590 AF	External	Area	Lin, AddZ	M *
5	Nitrate	6.400	0.491 AN	External	Area	Lin, AddZ	MB

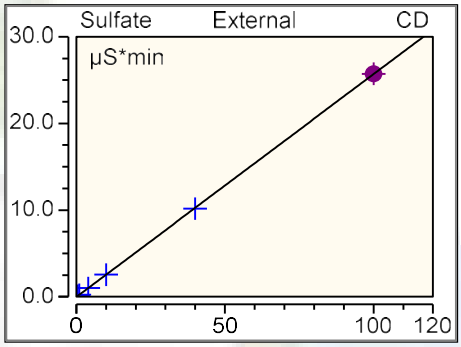
Injection Name	Ret.Time min CD	Area µS*min CD	Height µS CD	Amount CD
	Chloride	Chloride	Chloride	Chloride
STD 0.5	3.138	0.1063	1.269	0.284
STD 1.0	3.143	0.2036	2.465	0.557
STD 2.0	3.142	0.7275	9.010	2.026
STD 3.0	3.155	1.7787	21.908	4.975
STD 4.0	3.157	7.0883	85.090	19.869
STD 5.0	3.167	17.8490	209.105	50.053
Average	3.150			
Rel. Std. Dev.	0.347 %			



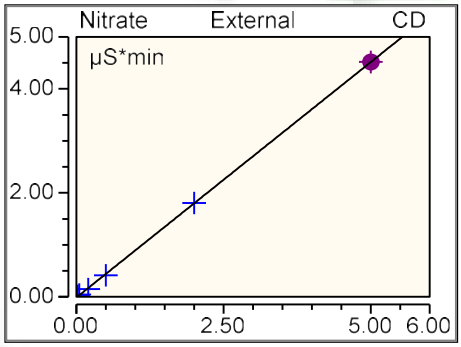
Injection Name	Ret.Time min CD	Area µS*min CD	Height µS CD	Amount CD
	Bromide	Bromide	Bromide	Bromide
STD 0.5	5.343	0.0042	0.023	0.045
STD 1.0	5.332	0.0078	0.045	0.074
STD 2.0	5.328	0.0200	0.147	0.174
STD 3.0	5.332	0.0551	0.407	0.460
STD 4.0	5.327	0.2456	1.954	2.012
STD 5.0	5.292	0.6466	5.300	5.280
Average	5.326			
Rel. Std. Dev.	0.330 %			



Injection Name	Ret.Time min CD	Area µS*min CD	Height µS CD	Amount CD
	Sulfate	Sulfate	Sulfate	Sulfate
STD 0.5	5.938	0.1057	0.663	0.547
STD 1.0	5.920	0.2297	1.425	1.029
STD 2.0	5.885	0.9918	6.073	3.991
STD 3.0	5.865	2.5463	14.452	10.033
STD 4.0	5.747	10.1565	45.779	39.614
STD 5.0	5.592	25.7310	90.099	100.151
Average	5.824			
Rel. Std. Dev.	2.273 %			



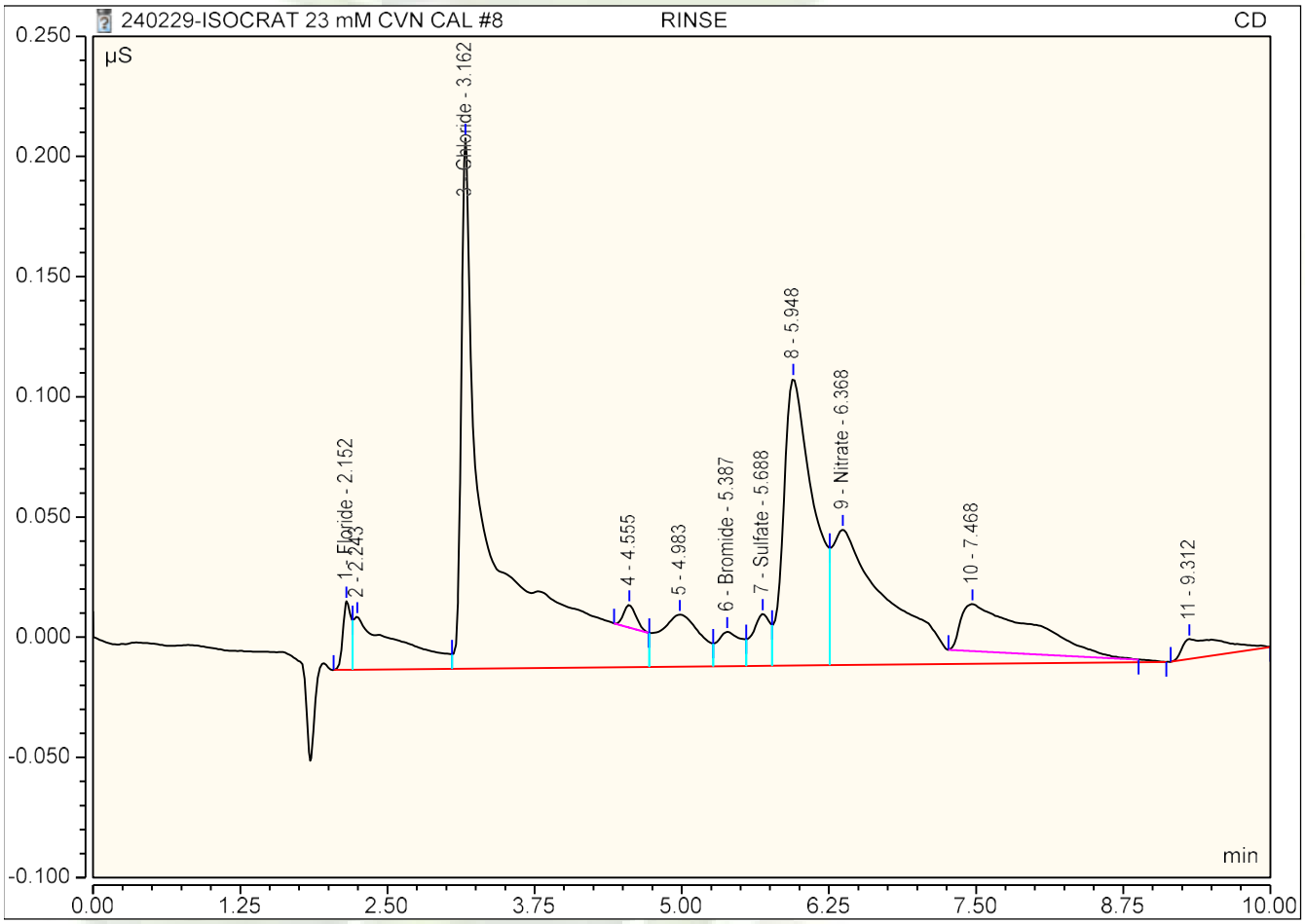
Injection Name	Ret.Time min CD	Area µS*min CD	Height µS CD	Amount CD
	Nitrate	Nitrate	Nitrate	Nitrate
STD 0.5	6.360	0.0172	0.102	0.034
STD 1.0	6.358	0.0457	0.215	0.065
STD 2.0	6.340	0.1507	0.936	0.181
STD 3.0	6.345	0.4157	2.514	0.473
STD 4.0	6.305	1.8055	9.826	2.007
STD 5.0	6.247	4.5174	22.125	5.000
Average	6.326			
Rel. Std. Dev.	0.689 %			



Peak Integration Report

Sample Name:	**RINSE**	*Inj. Vol.:*	**5000.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**IC 3 method 23 mM**	*Operator:*	**Wetchem25**
Inj. Date / Time:	**29-Feb-2024 / 13:41**	*Run Time:*	**10.00**

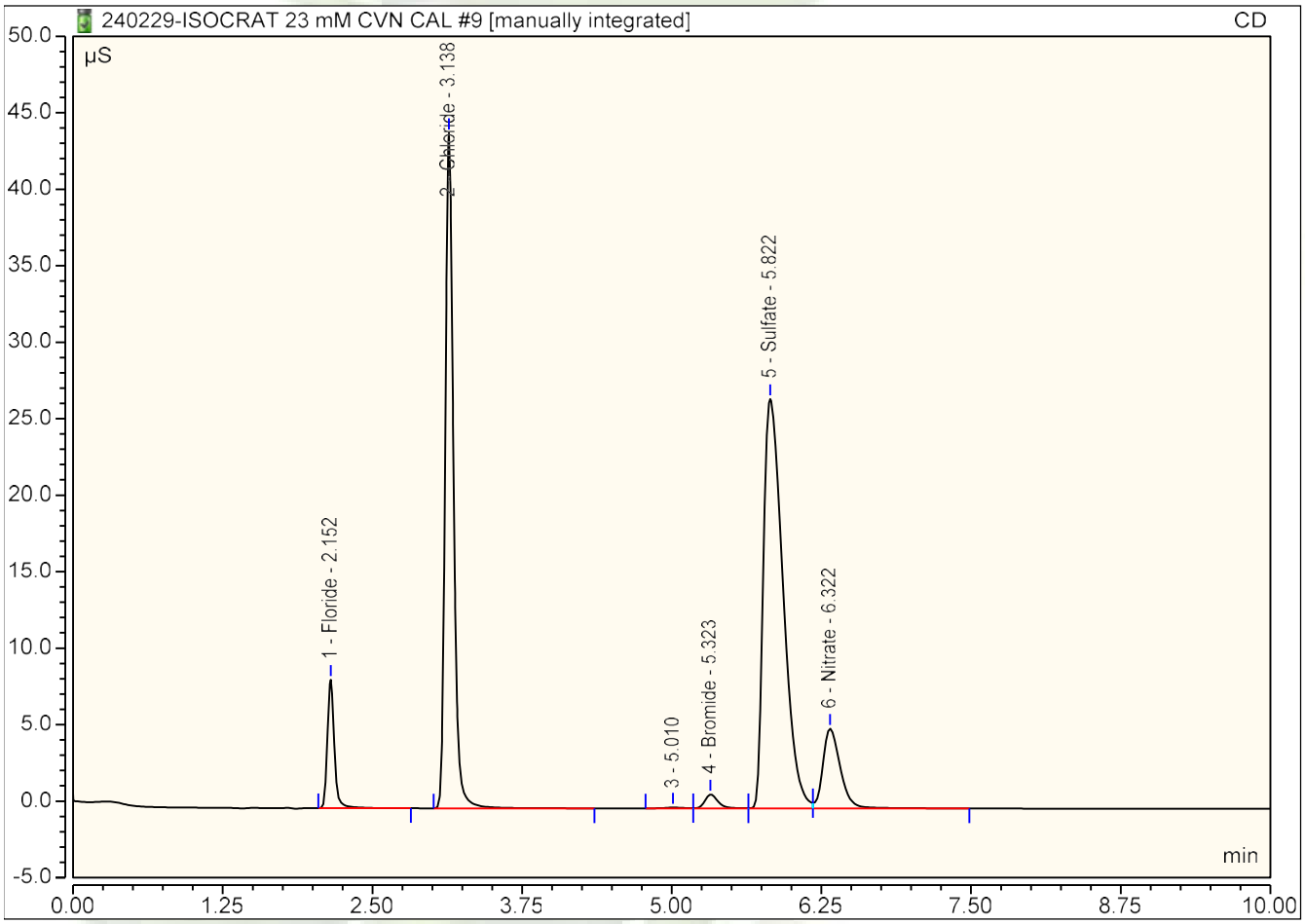
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
1	2.15	**Floride**	BM	0.002	0.028	0.0031
3	3.16	**Chloride**	M	0.064	0.221	0.1665
6	5.39	**Bromide**	M	0.003	0.014	0.0385
7	5.69	**Sulfate**	M	0.004	0.022	0.1505
9	6.37	**Nitrate**	MB	0.036	0.056	0.0543
TOTAL:				0.11	0.34	0.41



Peak Integration Report

Sample Name:	**CCV**	*Inj. Vol.:*	**5000.00**
Injection Type:	**Check Standard**	*Dilution Factor:*	**1.0000**
Instrument Method:	**IC 3 method 23 mM**	*Operator:*	**Wetchem25**
Inj. Date / Time:	**29-Feb-2024 / 13:59**	*Run Time:*	**10.00**

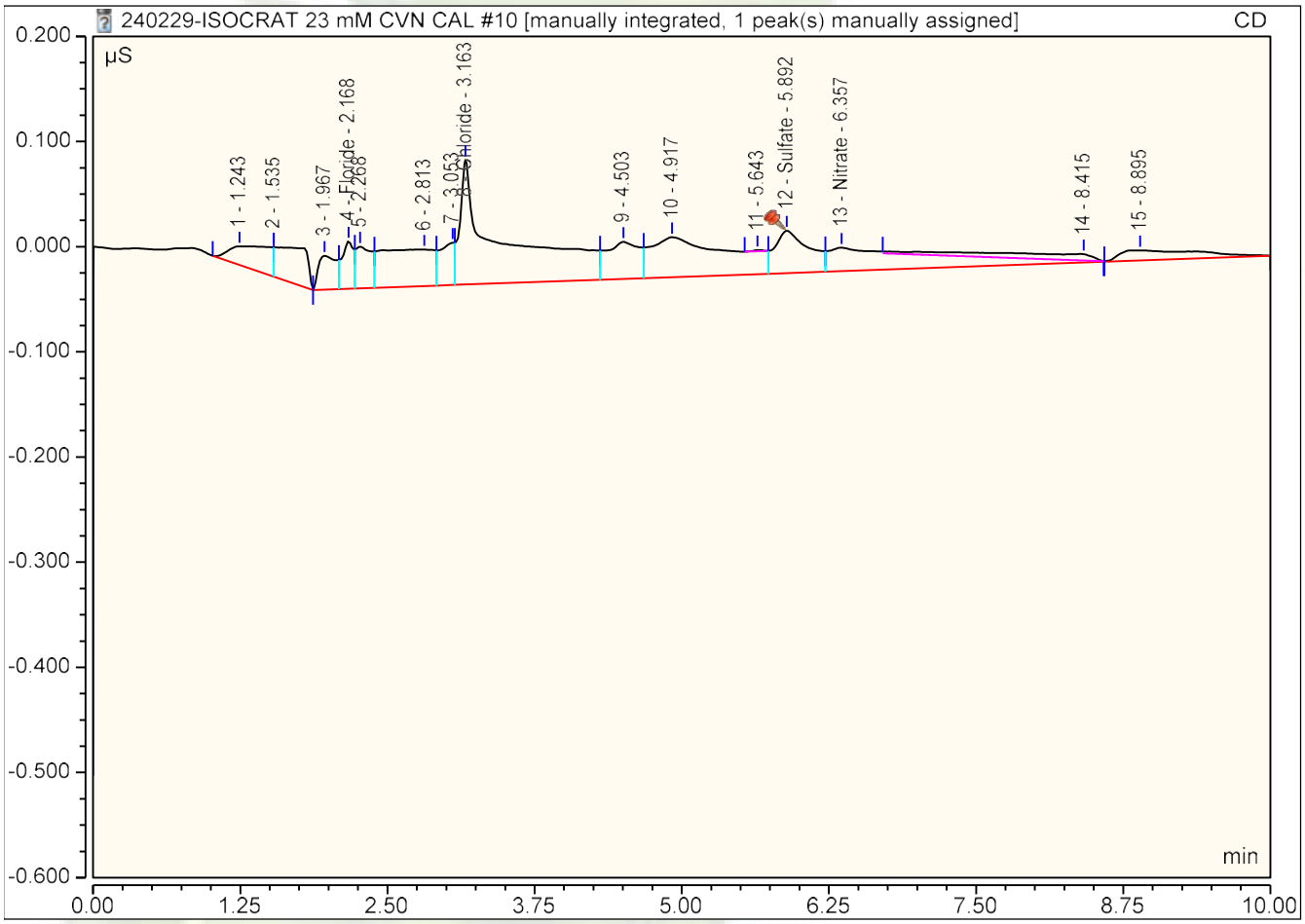
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
1	2.15	**Floride**	BMB	0.568	8.396	1.0310
2	3.14	**Chloride**	BMB	3.555	44.142	9.9585
4	5.32	**Bromide**	M	0.116	0.913	0.9585
5	5.82	**Sulfate**	M *	5.115	26.759	20.0168
6	6.32	**Nitrate**	MB*	0.889	5.218	0.9959
TOTAL:				10.24	85.43	32.96



Peak Integration Report

Sample Name:	**CCB**	*Inj. Vol.:*	**5000.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**IC 3 method 23 mM**	*Operator:*	**Wetchem25**
Inj. Date / Time:	**29-Feb-2024 / 14:09**	*Run Time:*	**10.00**

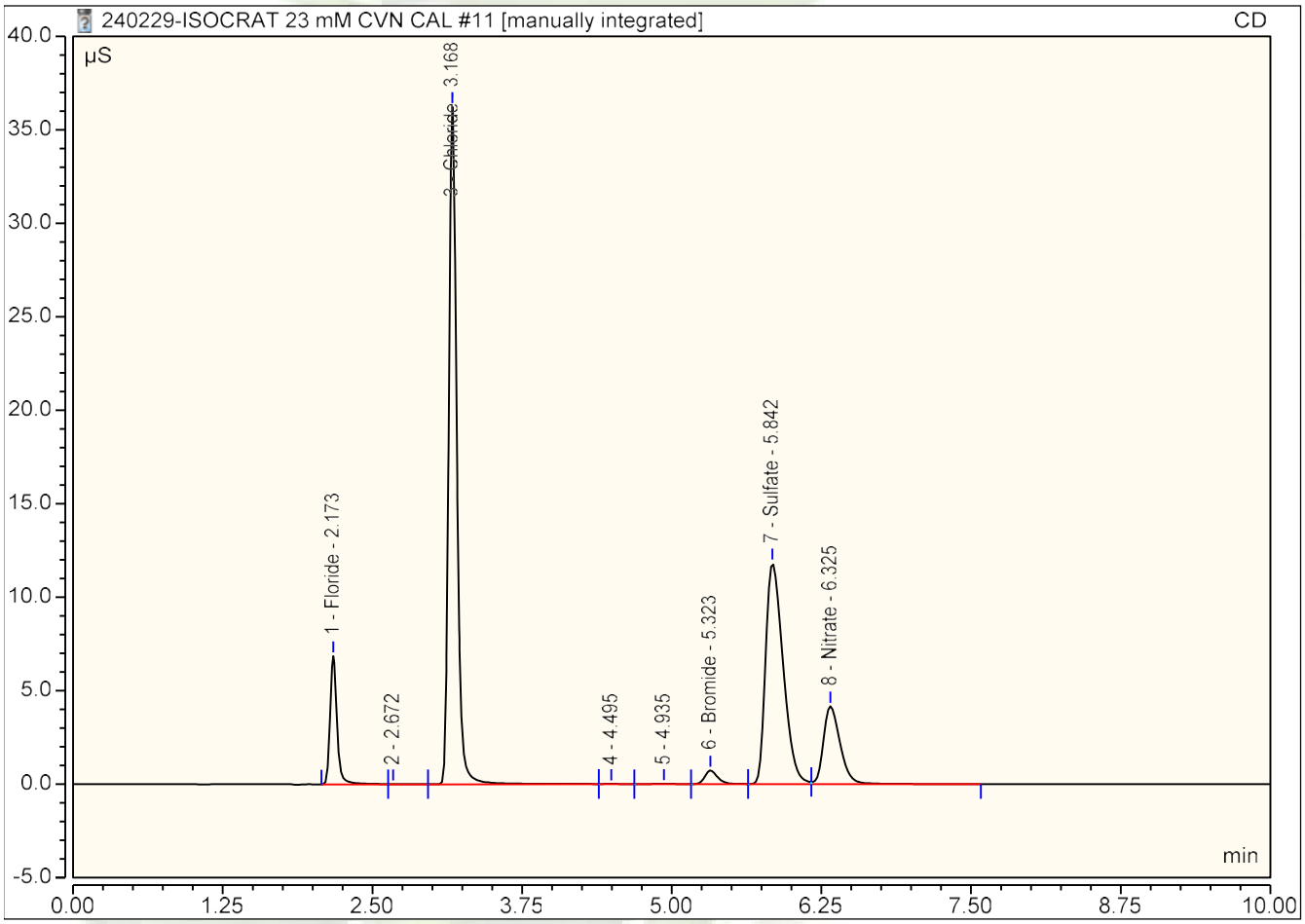
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
4	2.17	**Floride**	M	0.005	0.045	0.0080
8	3.16	**Chloride**	M	0.049	0.118	0.1239
12	5.89	**Sulfate**	M *^	0.014	0.040	0.1884
13	6.36	**Nitrate**	M *	0.025	0.022	0.0417
		TOTAL:		0.09	0.23	0.36



Peak Integration Report

Sample Name:	**ICV**	*Inj. Vol.:*	**5000.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**IC 3 method 23 mM**	*Operator:*	**Wetchem25**
Inj. Date / Time:	**29-Feb-2024 / 14:20**	*Run Time:*	**10.00**

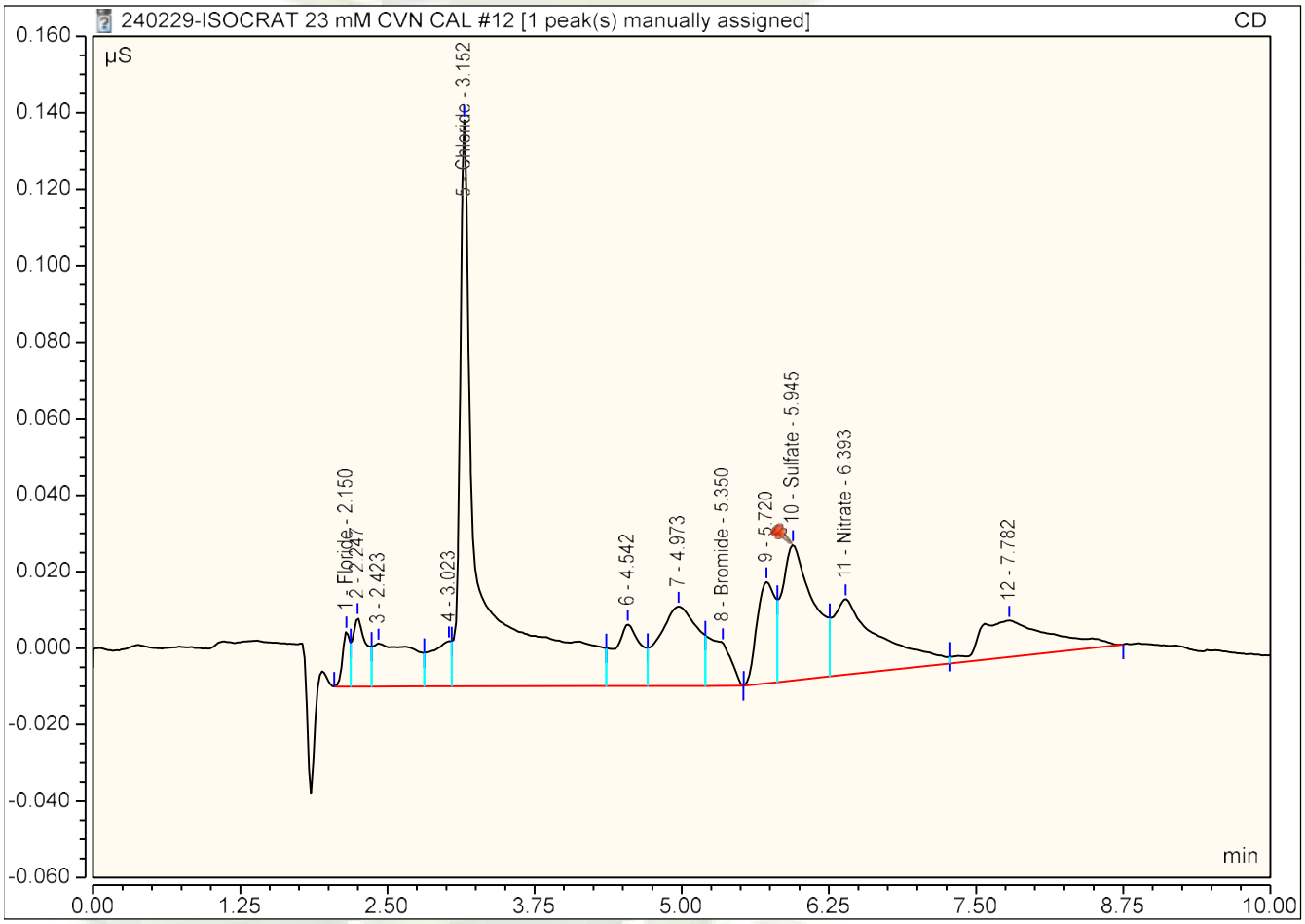
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
1	2.17	**Floride**	BM	0.461	6.860	0.8360
3	3.17	**Chloride**	M	2.851	36.238	7.9823
6	5.32	**Bromide**	M	0.095	0.736	0.7826
7	5.84	**Sulfate**	M *	2.020	11.817	7.9863
8	6.33	**Nitrate**	MB*	0.683	4.161	0.7685
TOTAL:				6.11	59.81	18.36



Peak Integration Report

Sample Name:	**ICB**	*Inj. Vol.:*	**5000.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**IC 3 method 23 mM**	*Operator:*	**Wetchem25**
Inj. Date / Time:	**29-Feb-2024 / 14:31**	*Run Time:*	**10.00**

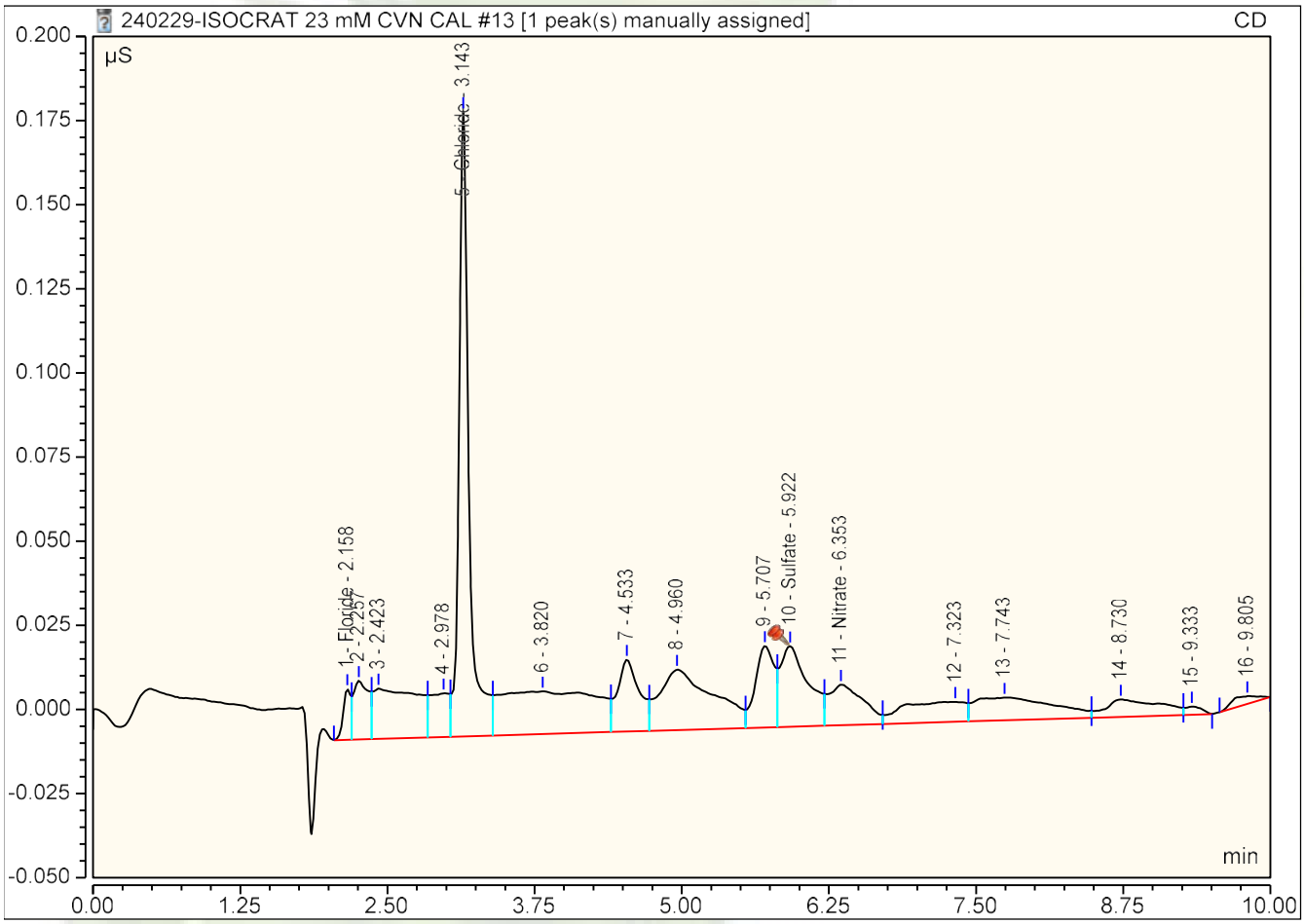
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
1	2.15	**Floride**	BM	0.001	0.014	0.0008
5	3.15	**Chloride**	M	0.029	0.148	0.0684
8	5.35	**Bromide**	MB	0.003	0.011	0.0329
10	5.95	**Sulfate**	M ^	0.011	0.035	0.1780
11	6.39	**Nitrate**	M	0.009	0.020	0.0246
TOTAL:				0.05	0.23	0.30



Peak Integration Report

Sample Name:	**BLK**	*Inj. Vol.:*	**5000.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**IC 3 method 23 mM**	*Operator:*	**Wetchem25**
Inj. Date / Time:	**29-Feb-2024 / 14:42**	*Run Time:*	**10.00**

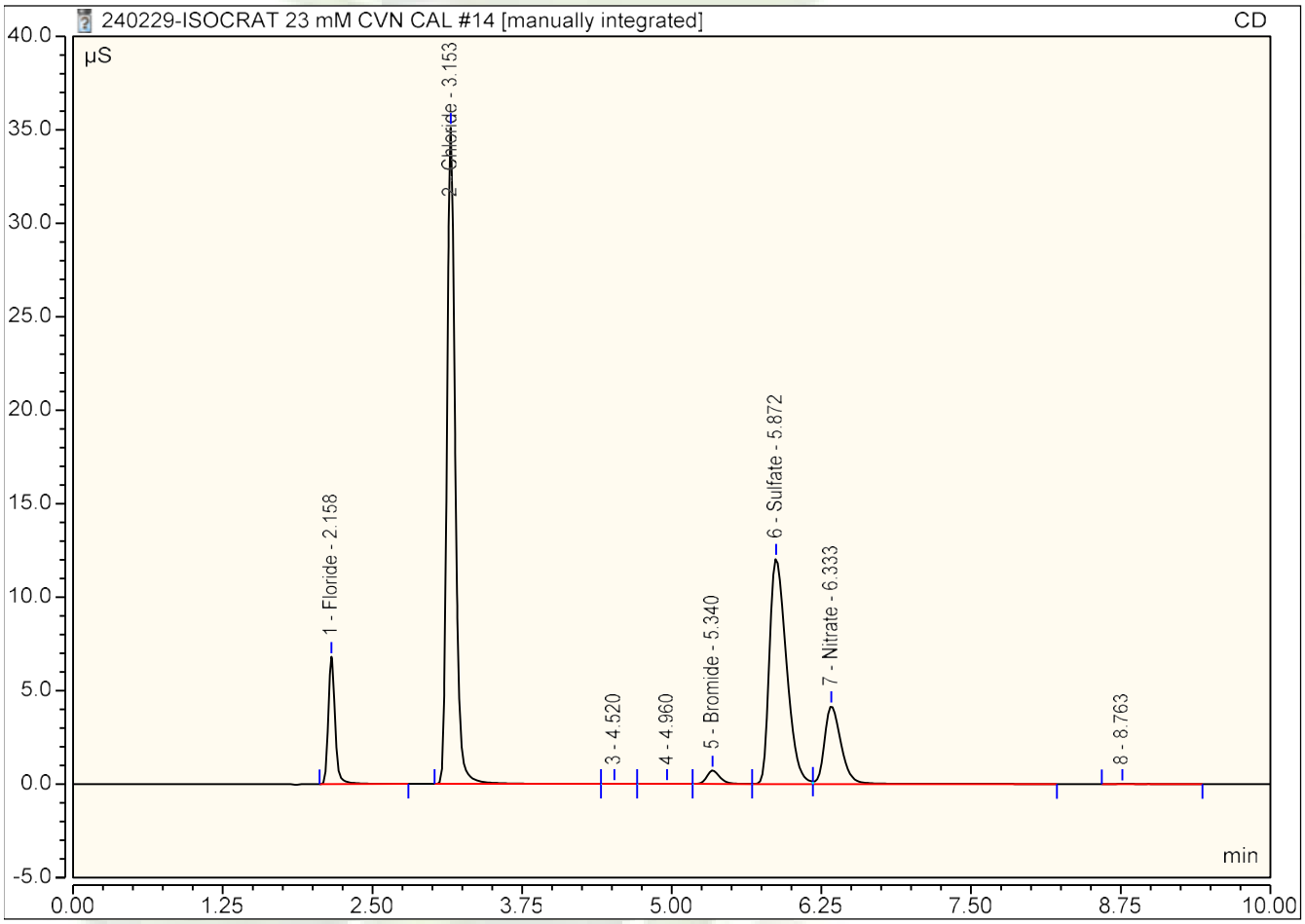
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
1	2.16	**Floride**	BM	0.001	0.015	0.0010
5	3.14	**Chloride**	M	0.018	0.186	0.0367
10	5.92	**Sulfate**	M ^	0.007	0.024	0.1612
11	6.35	**Nitrate**	M	0.004	0.012	0.0191
TOTAL:				0.03	0.24	0.22



Peak Integration Report

Sample Name:	**LCS**	*Inj. Vol.:*	**5000.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**IC 3 method 23 mM**	*Operator:*	**Wetchem25**
Inj. Date / Time:	**29-Feb-2024 / 14:53**	*Run Time:*	**10.00**

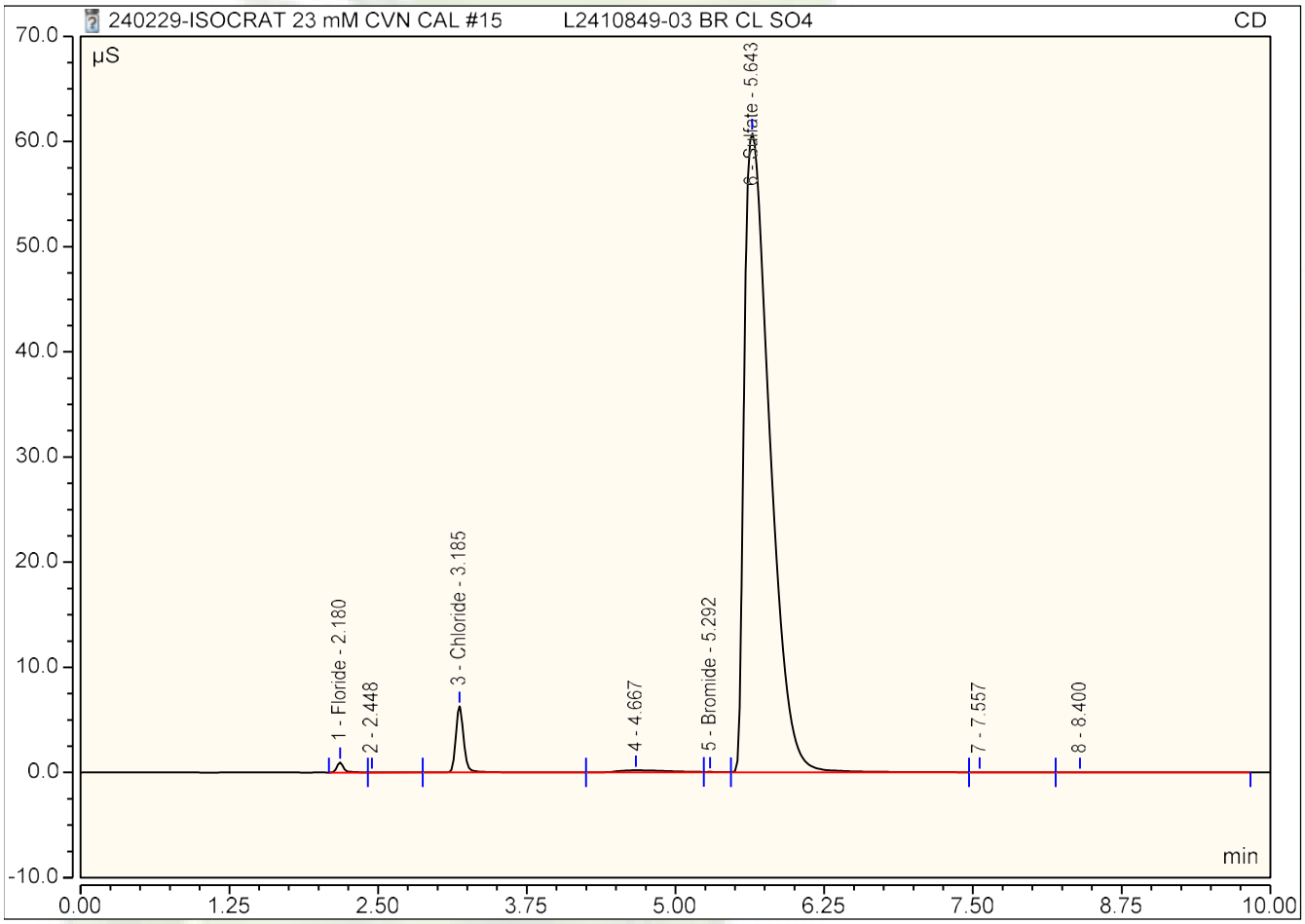
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
1	2.16	**Floride**	BMB	0.453	6.813	0.8207
2	3.15	**Chloride**	BM	2.815	35.098	7.8829
5	5.34	**Bromide**	M	0.092	0.726	0.7604
6	5.87	**Sulfate**	M *	1.999	12.054	7.9061
7	6.33	**Nitrate**	MB*	0.678	4.170	0.7634
TOTAL:				6.04	58.86	18.13



Peak Integration Report

Sample Name:	**L2410849-03 BR CL SO4**	*Inj. Vol.:*	**5000.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**IC 3 method 23 mM**	*Operator:*	**Wetchem25**
Inj. Date / Time:	**29-Feb-2024 / 15:04**	*Run Time:*	**10.00**

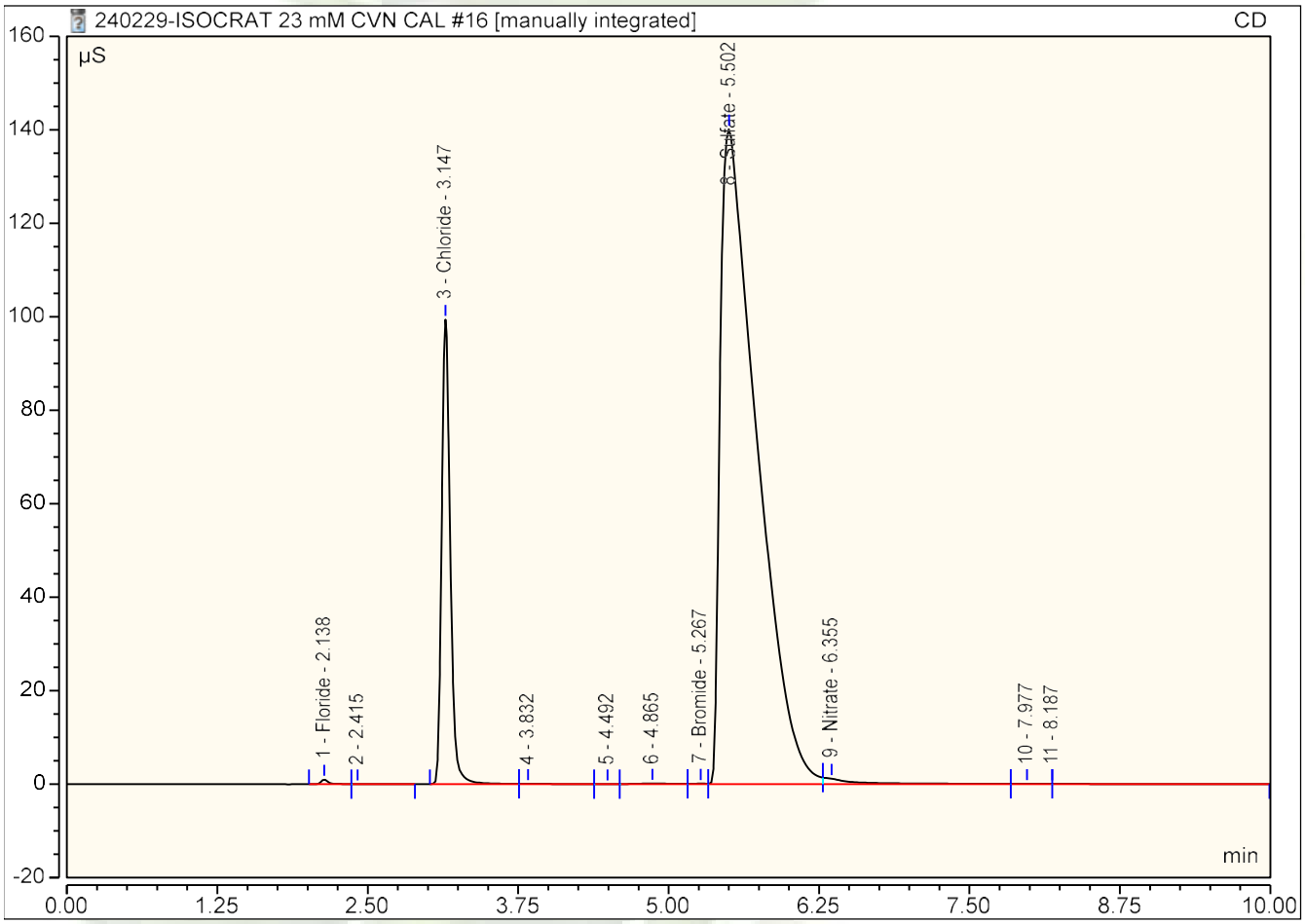
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
1	2.18	**Floride**	BM	0.067	0.981	0.1208
3	3.19	**Chloride**	M	0.498	6.307	1.3823
5	5.29	**Bromide**	M	0.010	0.058	0.0963
6	5.64	**Sulfate**	M	15.120	60.783	58.9048
TOTAL:				15.70	68.13	60.50



Peak Integration Report

Sample Name:	**L2410659-01 F**	*Inj. Vol.:*	**5000.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**IC 3 method 23 mM**	*Operator:*	**Wetchem25**
Inj. Date / Time:	**29-Feb-2024 / 15:15**	*Run Time:*	**10.00**

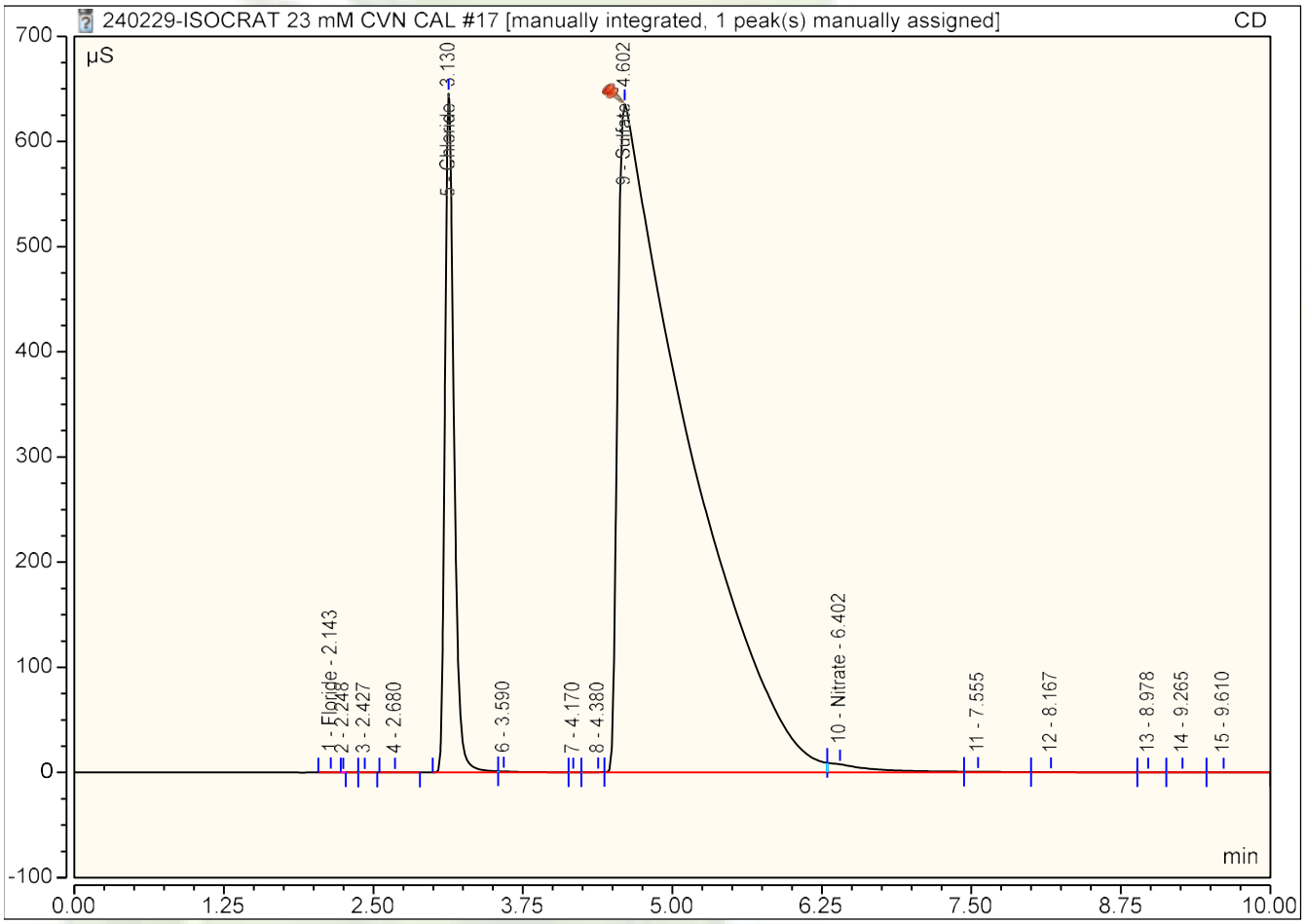
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
1	2.14	**Floride**	BM	0.072	1.029	0.1290
3	3.15	**Chloride**	BM	8.181	99.387	22.9327
7	5.27	**Bromide**	M	0.014	0.112	0.1288
8	5.50	**Sulfate**	M *	49.222	140.084	191.4591
9	6.36	**Nitrate**	M	0.407	1.166	0.4638
TOTAL:				57.90	241.78	215.11



Peak Integration Report

Sample Name:	**L2410659-02**	*Inj. Vol.:*	**5000.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**IC 3 method 23 mM**	*Operator:*	**Wetchem25**
Inj. Date / Time:	**29-Feb-2024 / 15:26**	*Run Time:*	**10.00**

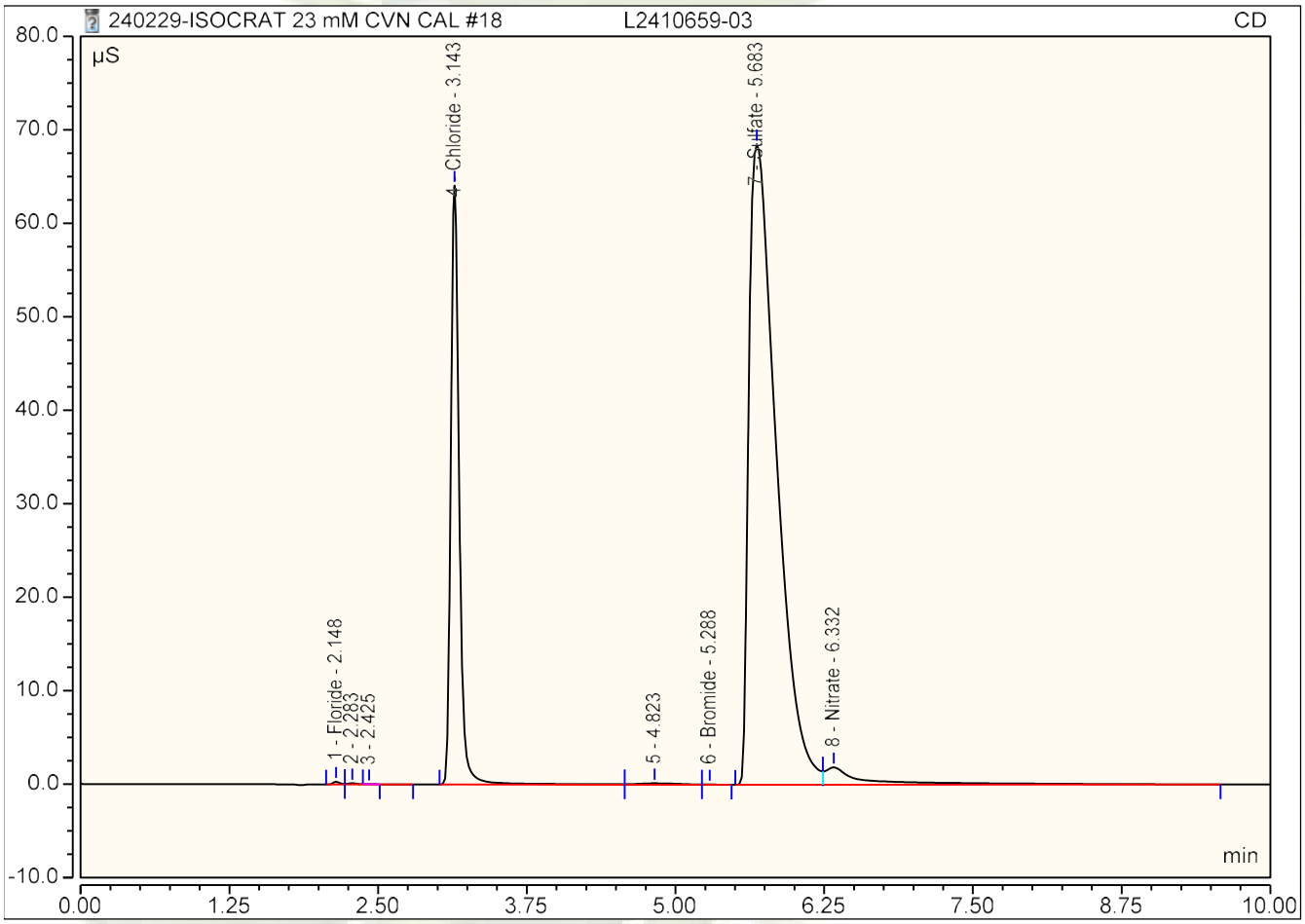
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
1	2.14	**Floride**	BM	0.026	0.283	0.0465
5	3.13	**Chloride**	BM	56.860	645.718	159.4806
9	4.60	**Sulfate**	M *^	428.210	635.617	1664.5665
10	6.40	**Nitrate**	M *	3.473	7.645	3.8475
TOTAL:				488.57	1289.26	1827.94



Peak Integration Report

Sample Name:	**L2410659-03**	*Inj. Vol.:*	**5000.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**IC 3 method 23 mM**	*Operator:*	**Wetchem25**
Inj. Date / Time:	**29-Feb-2024 / 15:37**	*Run Time:*	**10.00**

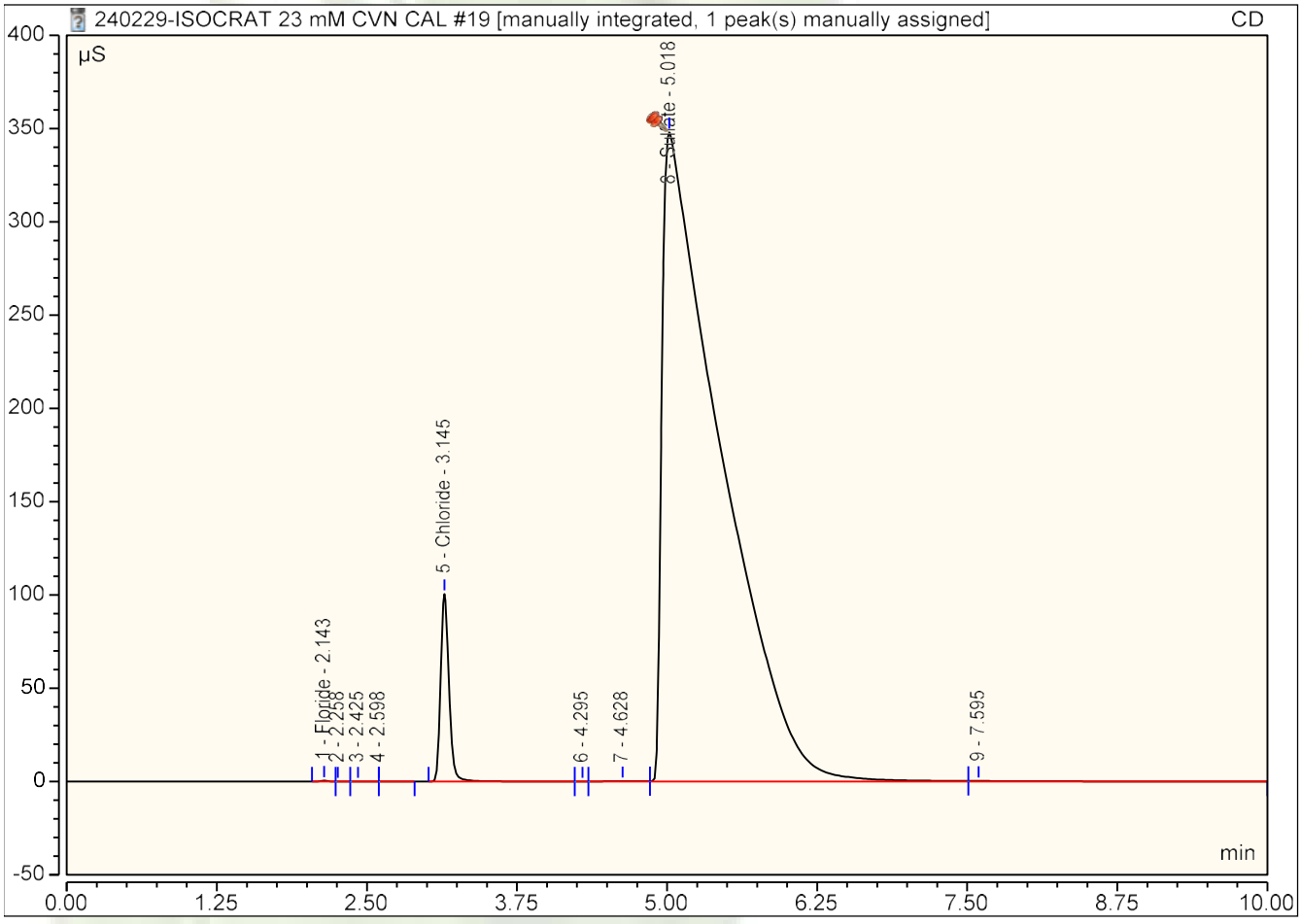
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
1	2.15	**Floride**	BM	0.019	0.300	0.0343
4	3.14	**Chloride**	BM	5.293	64.053	14.8334
6	5.29	**Bromide**	MB	0.005	0.032	0.0478
7	5.68	**Sulfate**	BM	18.283	68.518	71.2028
8	6.33	**Nitrate**	MB	0.783	1.861	0.8789
TOTAL:				24.38	134.76	87.00



Peak Integration Report

Sample Name:	**L2410659-04**	*Inj. Vol.:*	**5000.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**IC 3 method 23 mM**	*Operator:*	**Wetchem25**
Inj. Date / Time:	**29-Feb-2024 / 15:48**	*Run Time:*	**10.00**

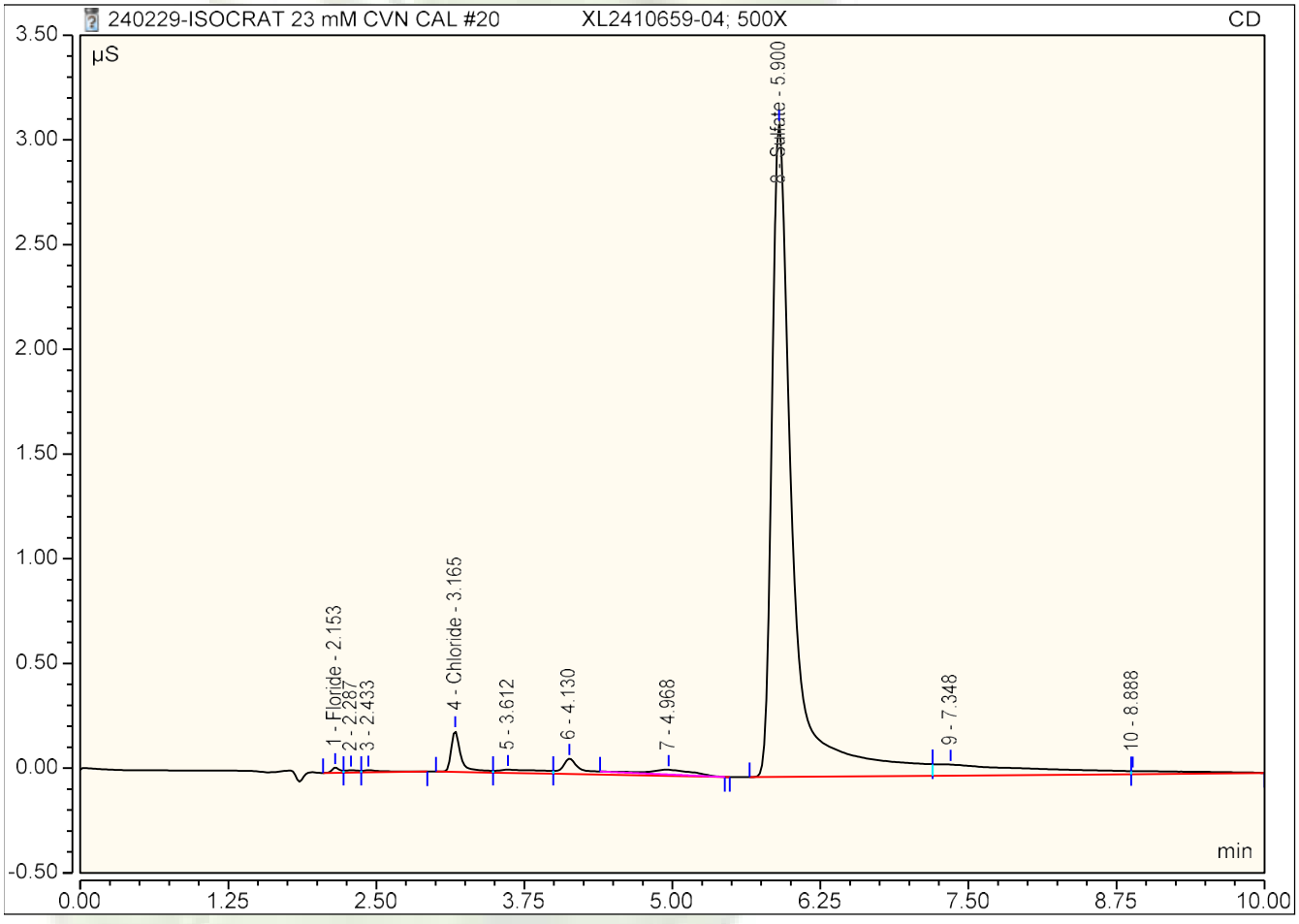
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
1	2.14	**Floride**	BM	0.032	0.459	0.0566
5	3.15	**Chloride**	BM	8.207	100.529	23.0066
8	5.02	**Sulfate**	M *^	195.580	348.043	760.3438
TOTAL:				203.82	449.03	783.41



Peak Integration Report

Sample Name:	**XL2410659-04; 500X**	*Inj. Vol.:*	**5000.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**500.0000**
Instrument Method:	**IC 3 method 23 mM**	*Operator:*	**Wetchem25**
Inj. Date / Time:	**29-Feb-2024 / 15:59**	*Run Time:*	**10.00**

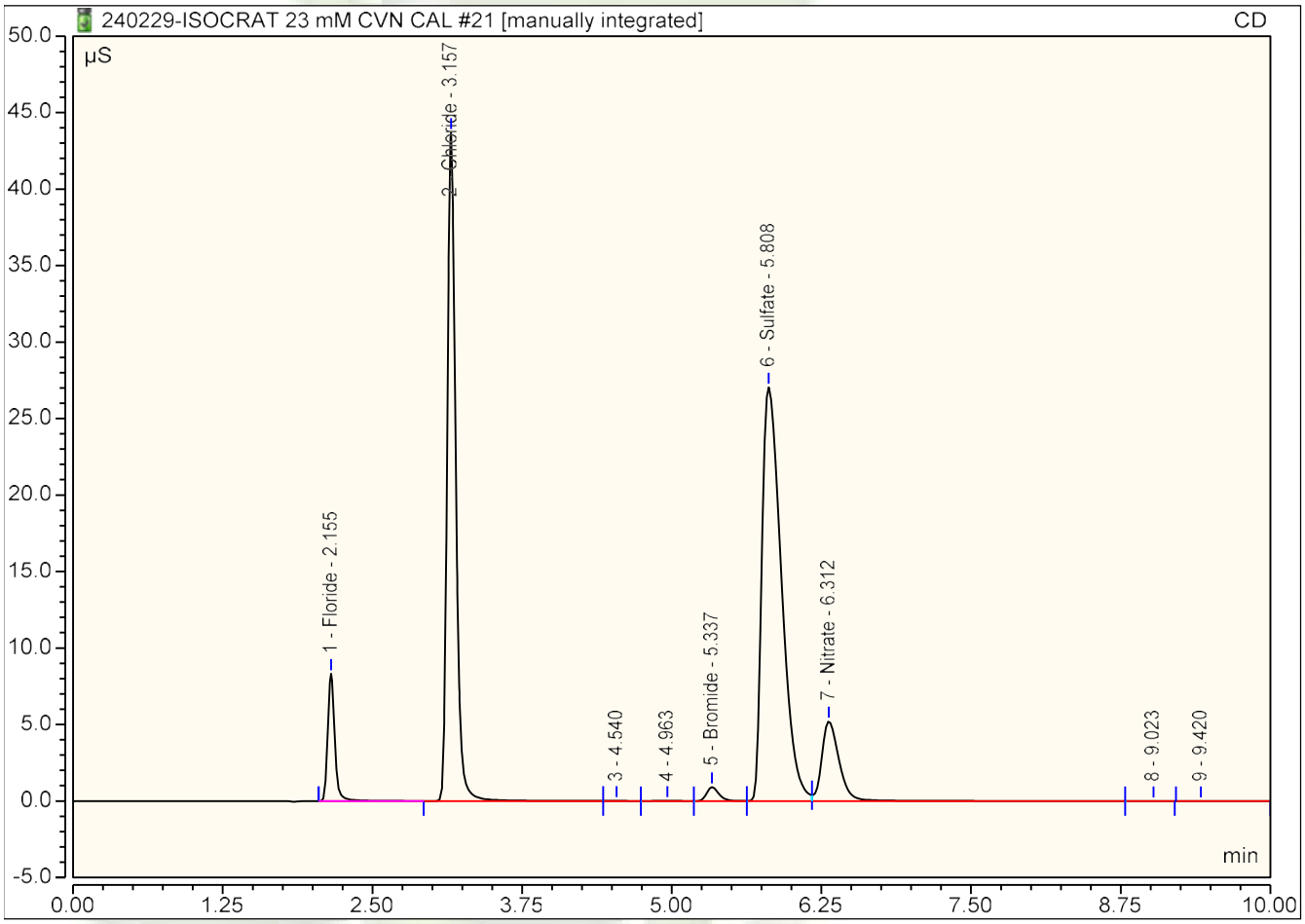
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
1	2.15	**Floride**	BM	0.002	0.025	1.1949
4	3.17	**Chloride**	BM	0.019	0.196	19.5273
8	5.90	**Sulfate**	BM	0.644	3.115	1320.3406
TOTAL:				0.67	3.34	1341.06



Peak Integration Report

Sample Name:	**CCV**	*Inj. Vol.:*	**5000.00**
Injection Type:	**Check Standard**	*Dilution Factor:*	**1.0000**
Instrument Method:	**IC 3 method 23 mM**	*Operator:*	**Wetchem25**
Inj. Date / Time:	**29-Feb-2024 / 16:10**	*Run Time:*	**10.00**

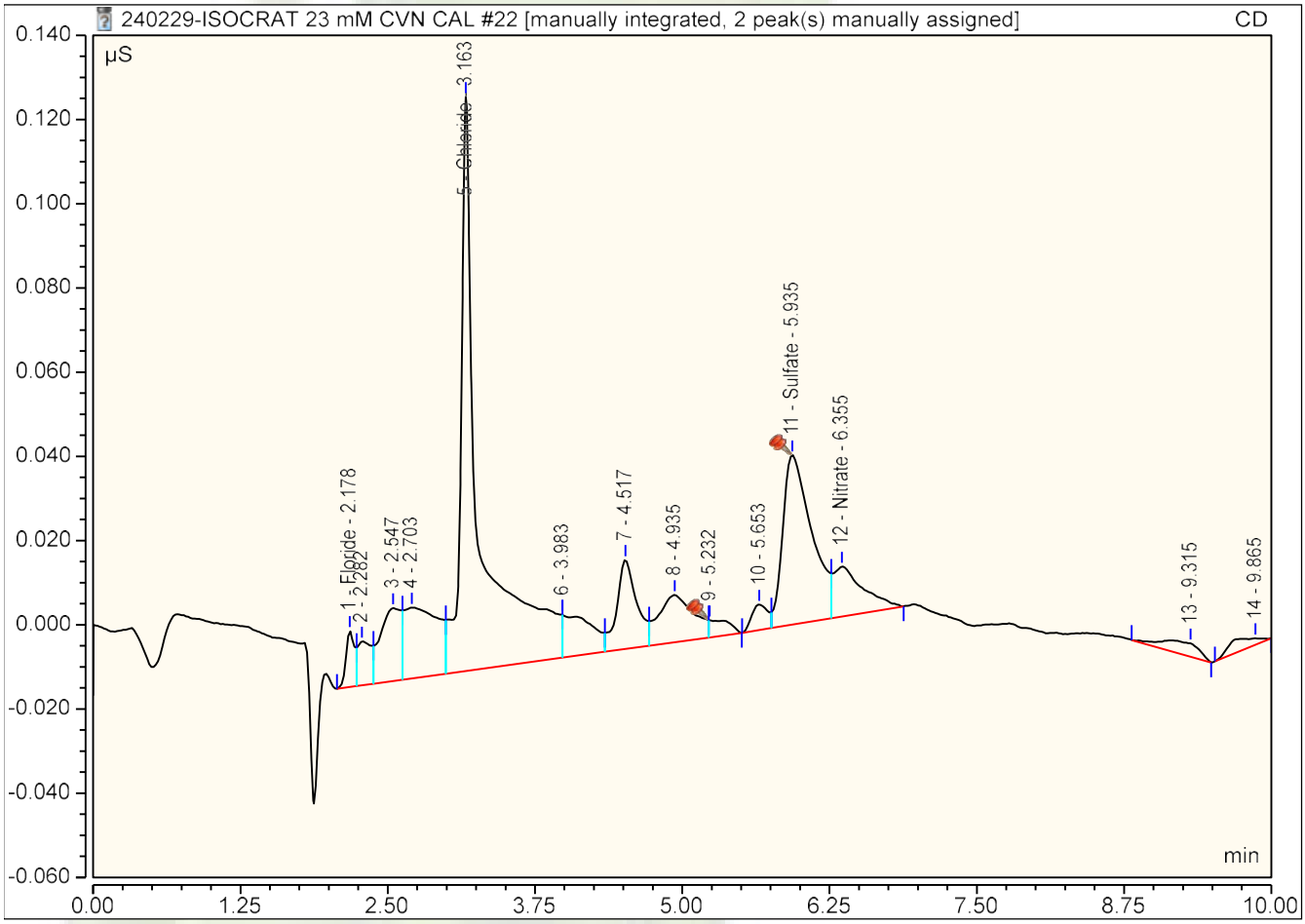
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
1	2.16	**Floride**	Ru	0.572	8.325	1.0372
2	3.16	**Chloride**	BM	3.653	43.701	10.2335
5	5.34	**Bromide**	M	0.115	0.923	0.9444
6	5.81	**Sulfate**	M *	5.146	27.053	20.1388
7	6.31	**Nitrate**	M *	0.910	5.229	1.0191
TOTAL:				10.40	85.23	33.37



Peak Integration Report

Sample Name:	**CCB**	*Inj. Vol.:*	**5000.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**IC 3 method 23 mM**	*Operator:*	**Wetchem25**
Inj. Date / Time:	**29-Feb-2024 / 16:26**	*Run Time:*	**10.00**

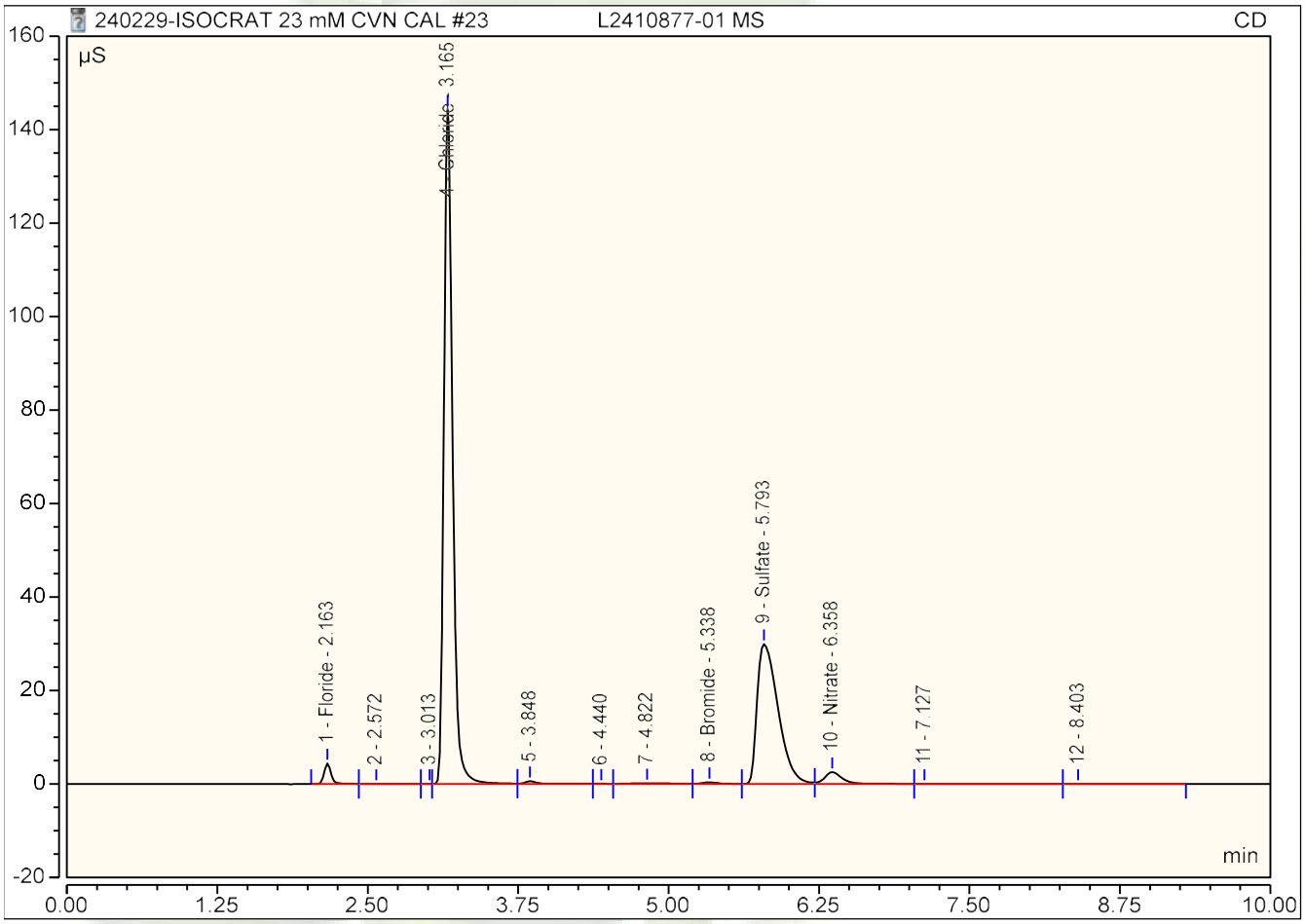
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
1	2.18	**Floride**	BM	0.001	0.013	0.0010
5	3.16	**Chloride**	M	0.026	0.136	0.0573
11	5.94	**Sulfate**	M *^	0.011	0.040	0.1803
12	6.36	**Nitrate**	MB	0.003	0.012	0.0184
TOTAL:				0.04	0.20	0.26



Peak Integration Report

Sample Name:	**L2410877-01 MS**	*Inj. Vol.:*	**5000.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**IC 3 method 23 mM**	*Operator:*	**Wetchem25**
Inj. Date / Time:	**29-Feb-2024 / 16:37**	*Run Time:*	**10.00**

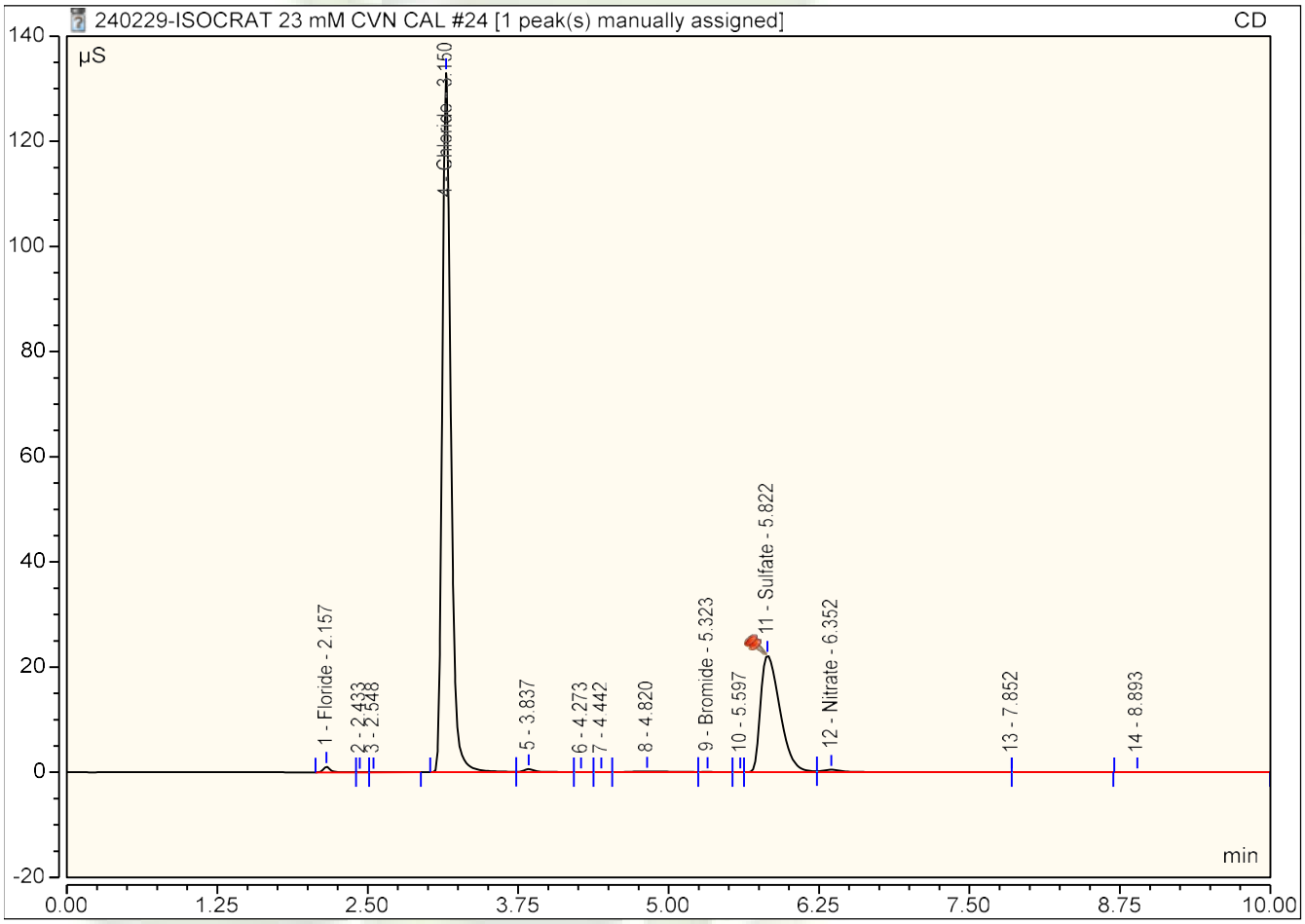
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
1	2.16	**Floride**	BM	0.295	4.410	0.5353
4	3.17	**Chloride**	M	12.028	144.279	33.7239
8	5.34	**Bromide**	M	0.057	0.367	0.4758
9	5.79	**Sulfate**	M	6.032	29.959	23.5812
10	6.36	**Nitrate**	M	0.443	2.528	0.5037
TOTAL:				18.86	181.54	58.82



Peak Integration Report

Sample Name:	**L2410877-01 DUP**	*Inj. Vol.:*	**5000.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**IC 3 method 23 mM**	*Operator:*	**Wetchem25**
Inj. Date / Time:	**29-Feb-2024 / 16:48**	*Run Time:*	**10.00**

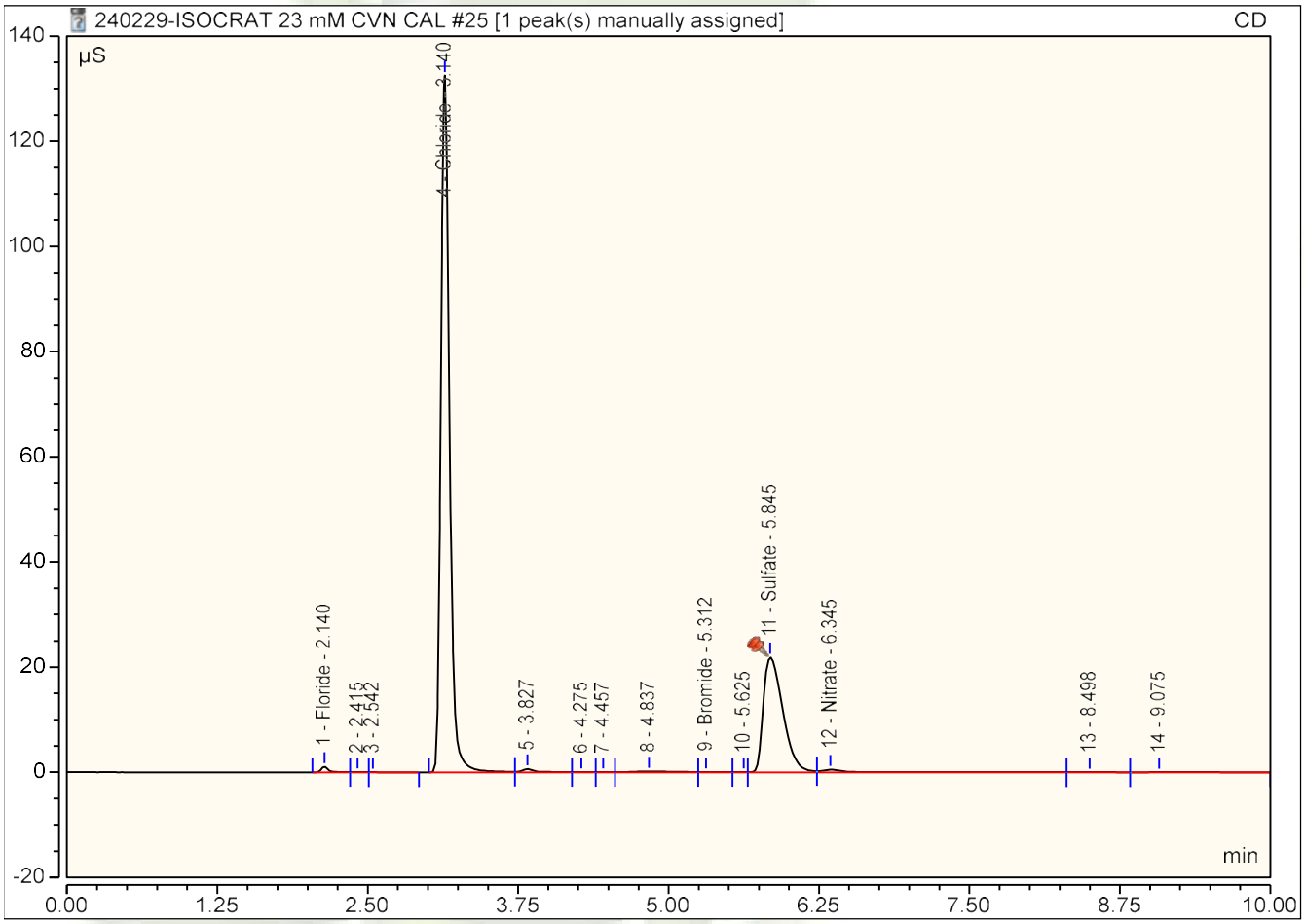
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
1	2.16	**Floride**	BM	0.072	1.076	0.1297
4	3.15	**Chloride**	BM	10.988	132.980	30.8072
9	5.32	**Bromide**	M	0.013	0.059	0.1174
11	5.82	**Sulfate**	M ^	4.131	22.197	16.1944
12	6.35	**Nitrate**	M	0.127	0.506	0.1552
TOTAL:				15.33	156.82	47.40



Peak Integration Report

Sample Name:	**L2410877-01**	*Inj. Vol.:*	**5000.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**IC 3 method 23 mM**	*Operator:*	**Wetchem25**
Inj. Date / Time:	**29-Feb-2024 / 16:59**	*Run Time:*	**10.00**

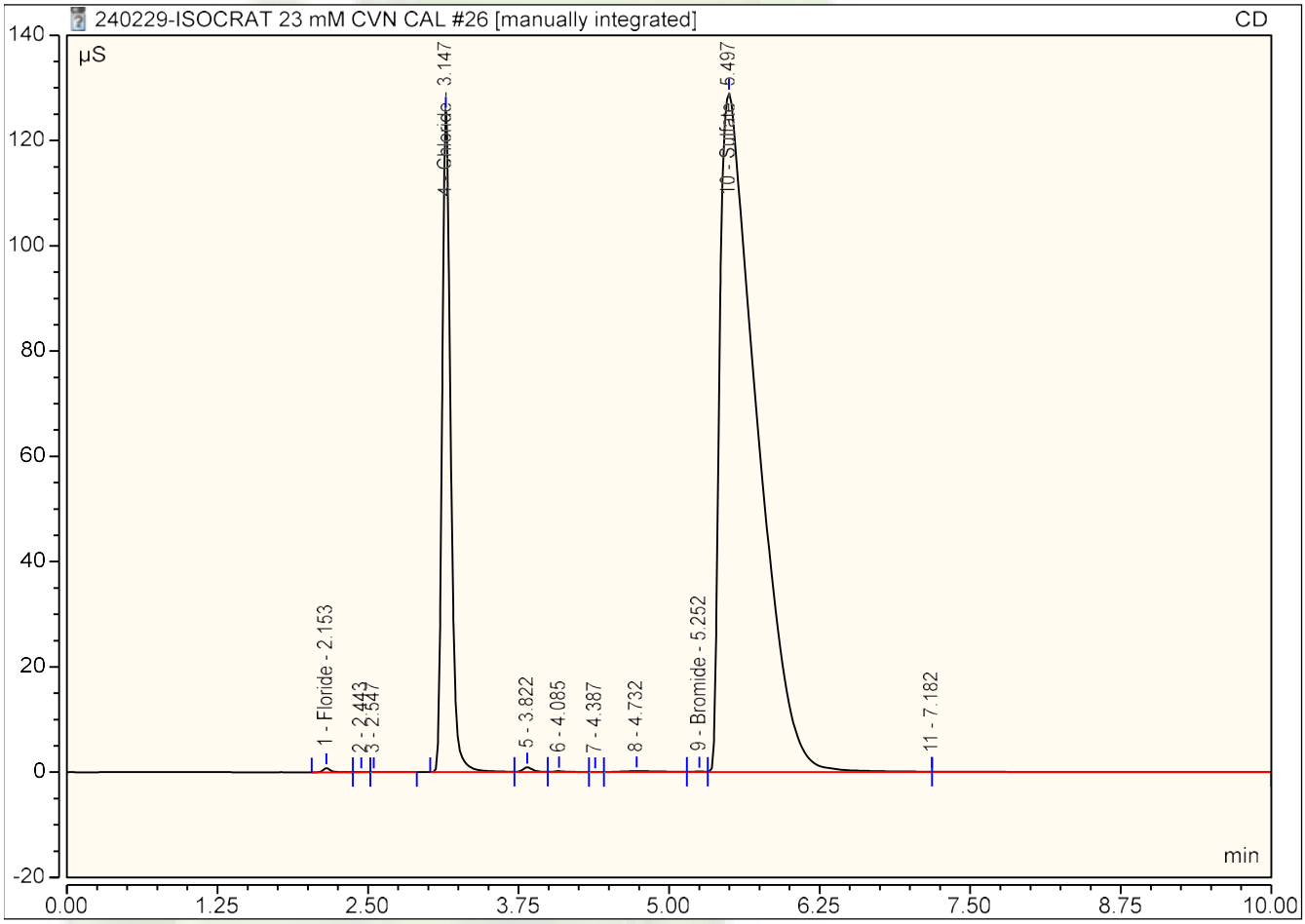
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
1	2.14	**Floride**	BM	0.072	1.072	0.1295
4	3.14	**Chloride**	BM	10.979	132.497	30.7825
9	5.31	**Bromide**	M	0.011	0.056	0.1039
11	5.85	**Sulfate**	M ^	4.098	21.874	16.0651
12	6.35	**Nitrate**	M	0.120	0.502	0.1468
TOTAL:				15.28	156.00	47.23



Peak Integration Report

Sample Name:	**L2410579-01 CL F SO4 BR**	*Inj. Vol.:*	**5000.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**IC 3 method 23 mM**	*Operator:*	**Wetchem25**
Inj. Date / Time:	**29-Feb-2024 / 17:10**	*Run Time:*	**10.00**

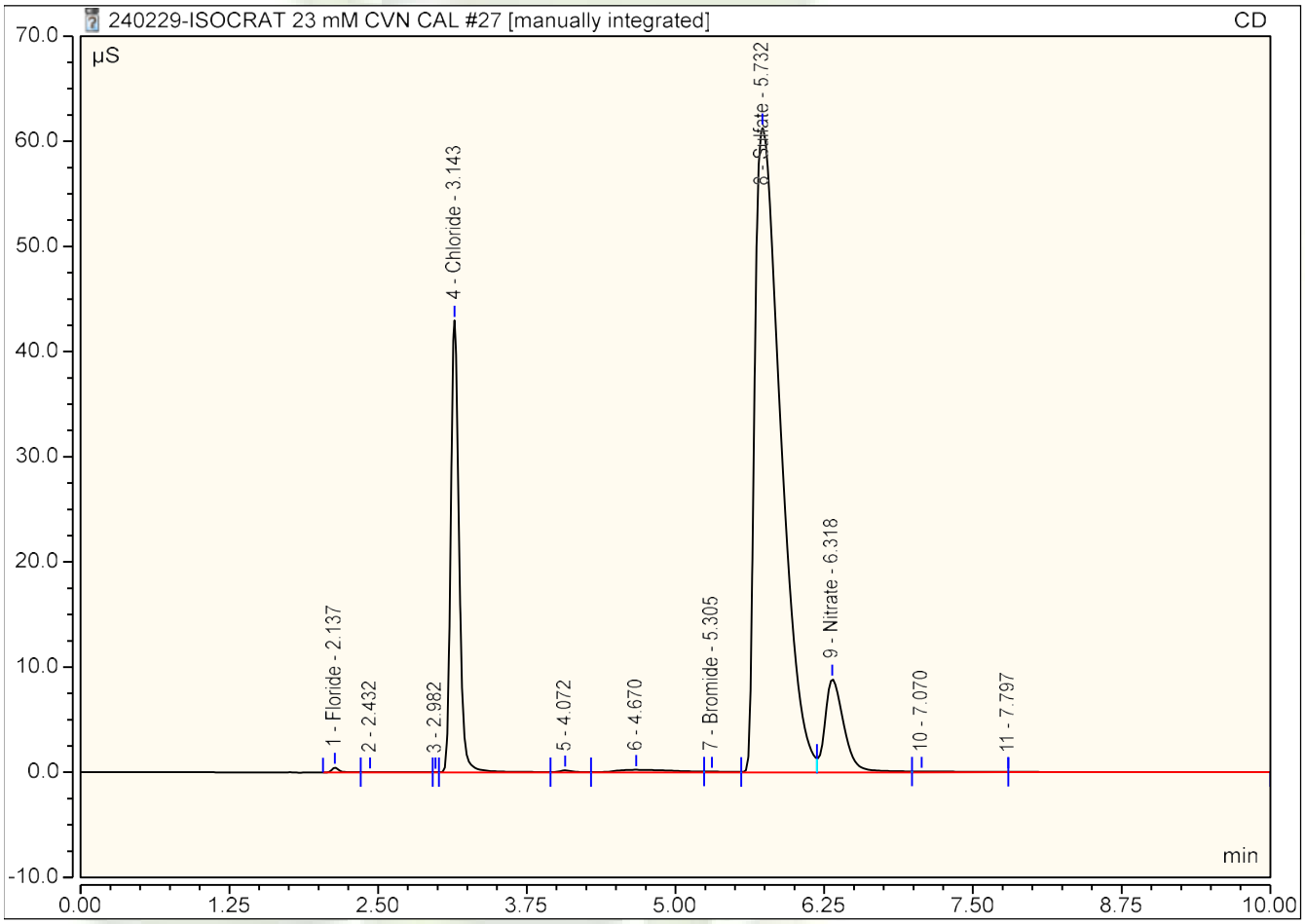
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
1	2.15	**Floride**	BM	0.057	0.825	0.1030
4	3.15	**Chloride**	BM	10.352	125.534	29.0248
9	5.25	**Bromide**	M	0.017	0.127	0.1517
10	5.50	**Sulfate**	M *	45.516	128.965	177.0534
TOTAL:				55.94	255.45	206.33



Peak Integration Report

Sample Name:	**XL2410579-02**	*Inj. Vol.:*	**5000.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**IC 3 method 23 mM**	*Operator:*	**Wetchem25**
Inj. Date / Time:	**29-Feb-2024 / 17:21**	*Run Time:*	**10.00**

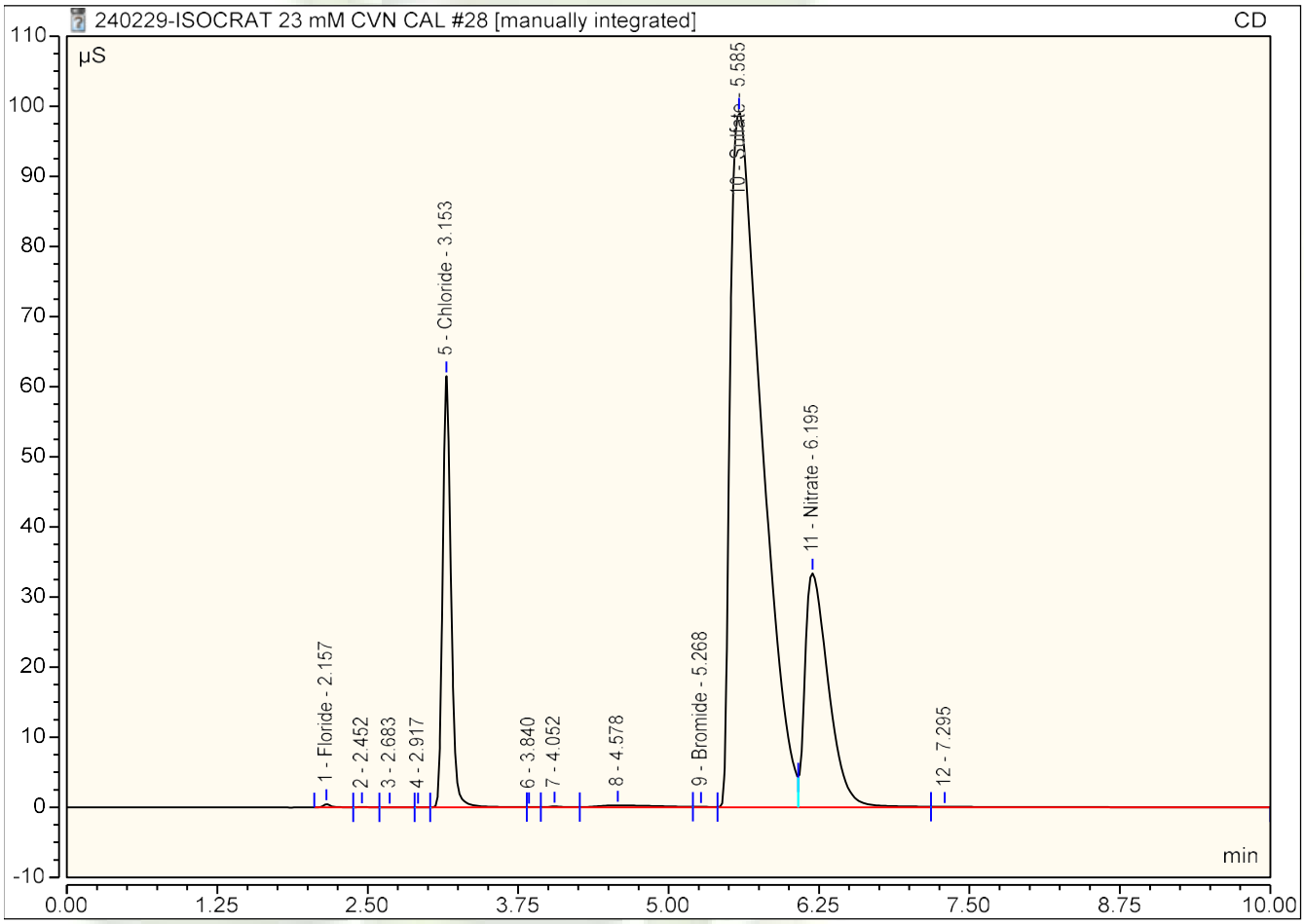
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
1	2.14	**Floride**	BM	0.033	0.462	0.0596
4	3.14	**Chloride**	M	3.484	42.969	9.7576
7	5.31	**Bromide**	M	0.017	0.076	0.1526
8	5.73	**Sulfate**	M *	15.412	61.260	60.0398
9	6.32	**Nitrate**	M *	1.642	8.840	1.8264
TOTAL:				20.59	113.61	71.84



Peak Integration Report

Sample Name:	**L2410579-03**	*Inj. Vol.:*	**5000.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**IC 3 method 23 mM**	*Operator:*	**Wetchem25**
Inj. Date / Time:	**29-Feb-2024 / 17:32**	*Run Time:*	**10.00**

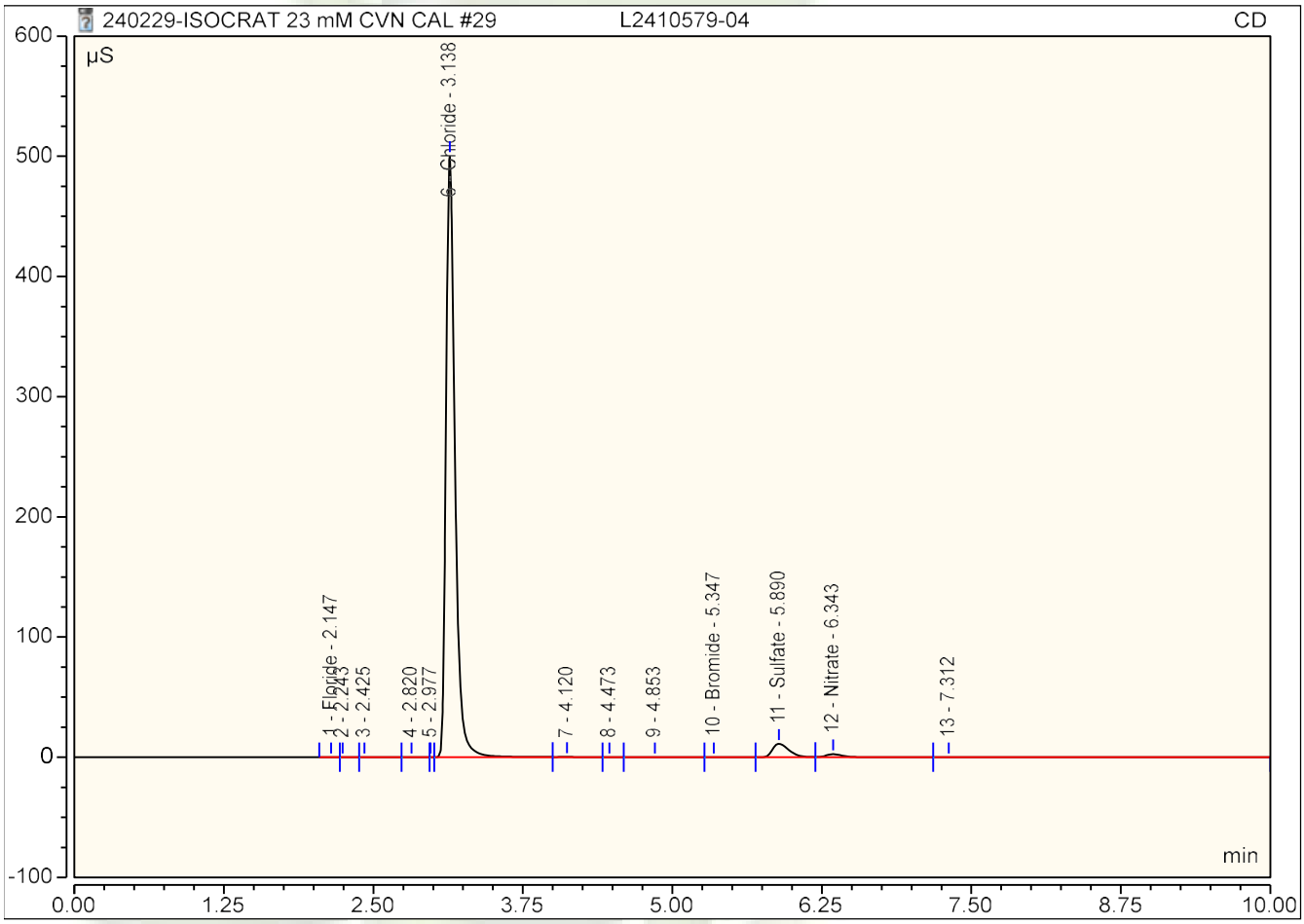
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
1	2.16	**Floride**	BM	0.035	0.483	0.0622
5	3.15	**Chloride**	M	4.973	61.518	13.9349
9	5.27	**Bromide**	M	0.014	0.084	0.1286
10	5.59	**Sulfate**	M *	29.964	99.075	116.6041
11	6.20	**Nitrate**	M	7.618	33.365	8.4222
TOTAL:				42.60	194.52	139.15



Peak Integration Report

Sample Name:	**L2410579-04**	*Inj. Vol.:*	**5000.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**IC 3 method 23 mM**	*Operator:*	**Wetchem25**
Inj. Date / Time:	**29-Feb-2024 / 17:43**	*Run Time:*	**10.00**

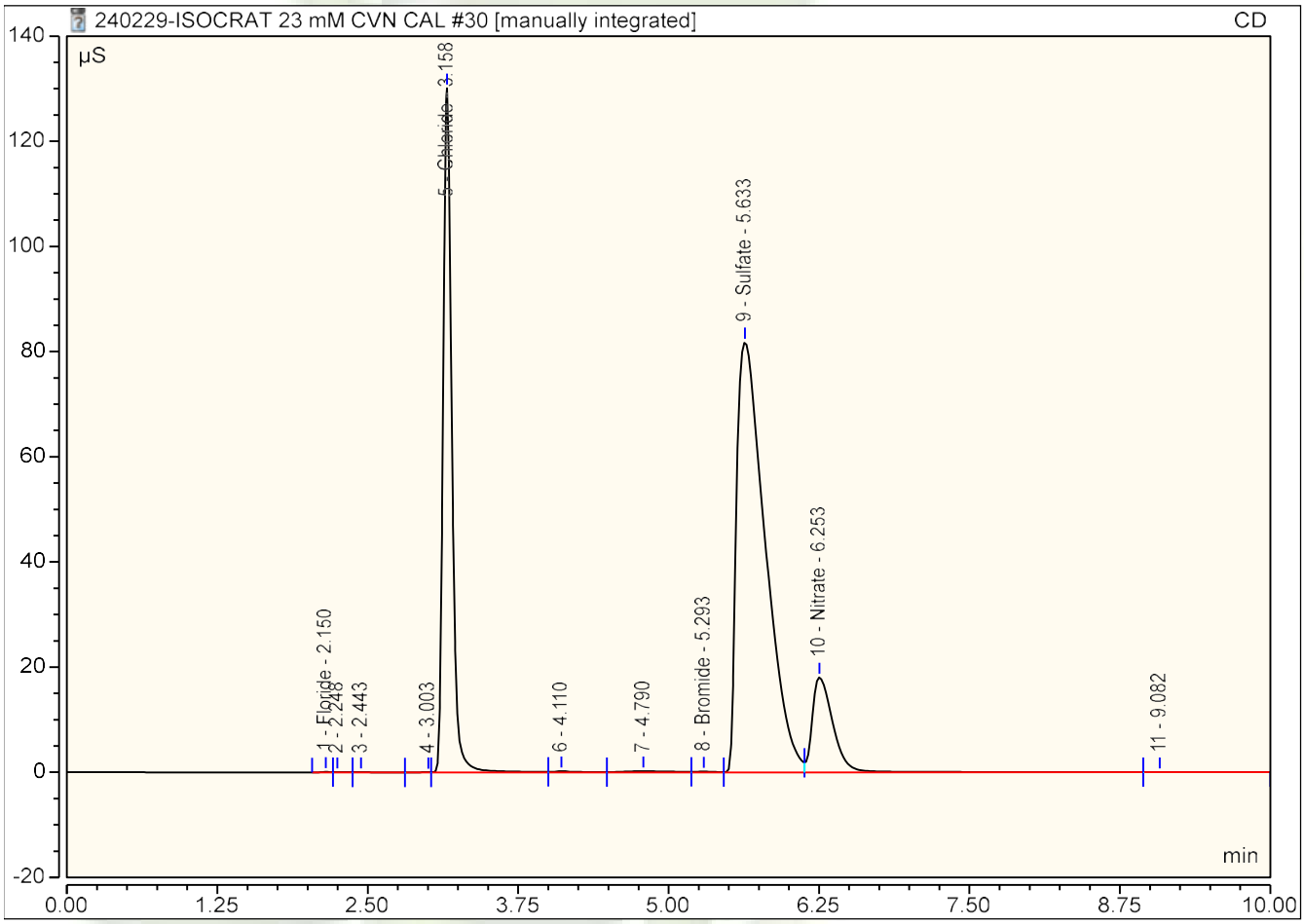
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
1	2.15	**Floride**	BM	0.012	0.170	0.0199
6	3.14	**Chloride**	M	43.902	500.415	123.1334
10	5.35	**Bromide**	M	0.022	0.081	0.1870
11	5.89	**Sulfate**	M	1.816	11.310	7.1964
12	6.34	**Nitrate**	M	0.451	2.591	0.5126
TOTAL:				46.20	514.57	131.05



Peak Integration Report

Sample Name:	**L2410579-05**	*Inj. Vol.:*	**5000.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**IC 3 method 23 mM**	*Operator:*	**Wetchem25**
Inj. Date / Time:	**29-Feb-2024 / 17:54**	*Run Time:*	**10.00**

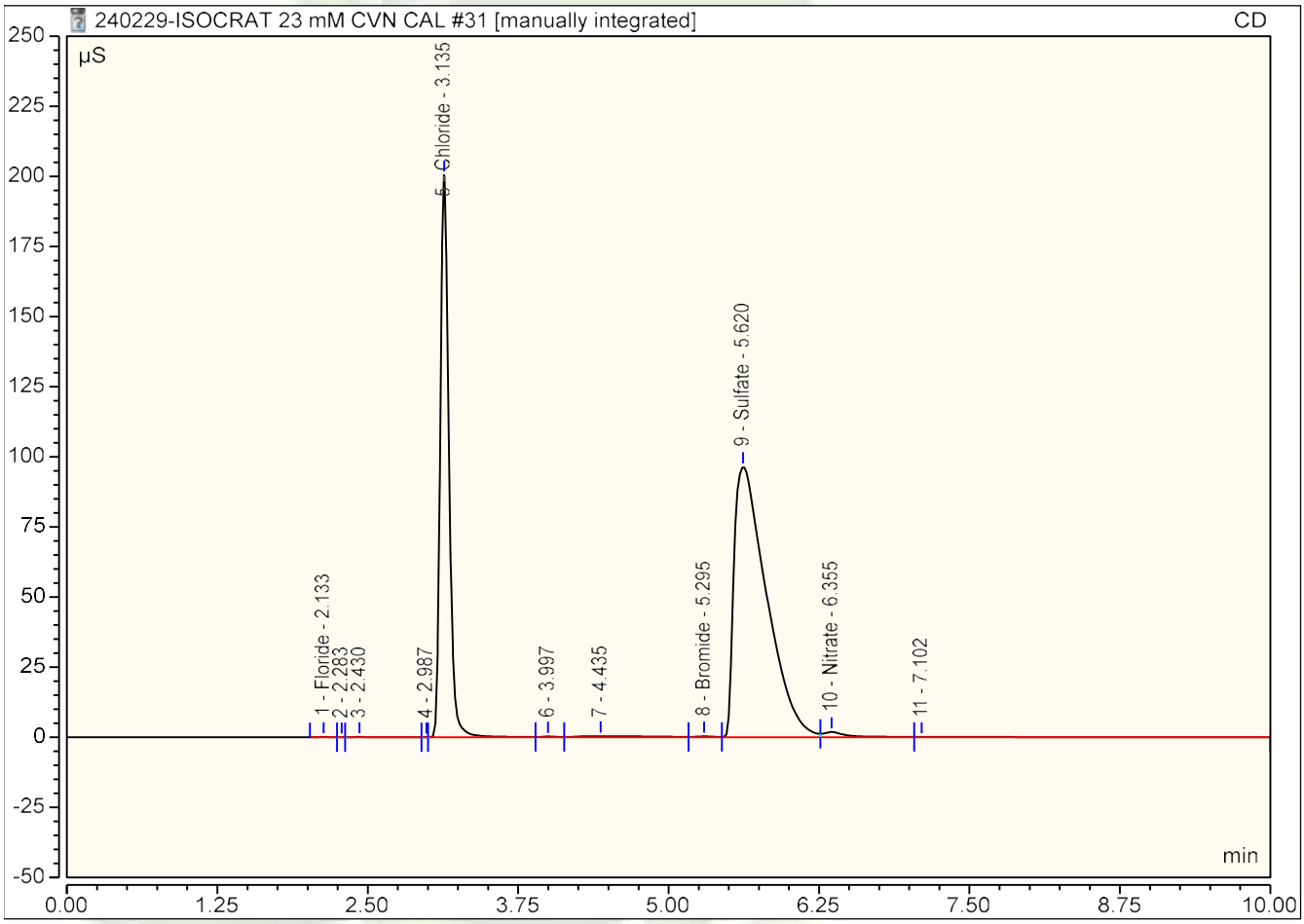
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
1	2.15	**Floride**	BM	0.007	0.096	0.0109
5	3.16	**Chloride**	M	10.890	130.114	30.5328
8	5.29	**Bromide**	M	0.025	0.139	0.2173
9	5.63	**Sulfate**	M *	22.523	81.781	87.6814
10	6.25	**Nitrate**	M *	3.635	18.056	4.0260
TOTAL:				37.08	230.19	122.47



Peak Integration Report

Sample Name:	**L2410579-06**	*Inj. Vol.:*	**5000.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**IC 3 method 23 mM**	*Operator:*	**Wetchem25**
Inj. Date / Time:	**29-Feb-2024 / 18:05**	*Run Time:*	**10.00**

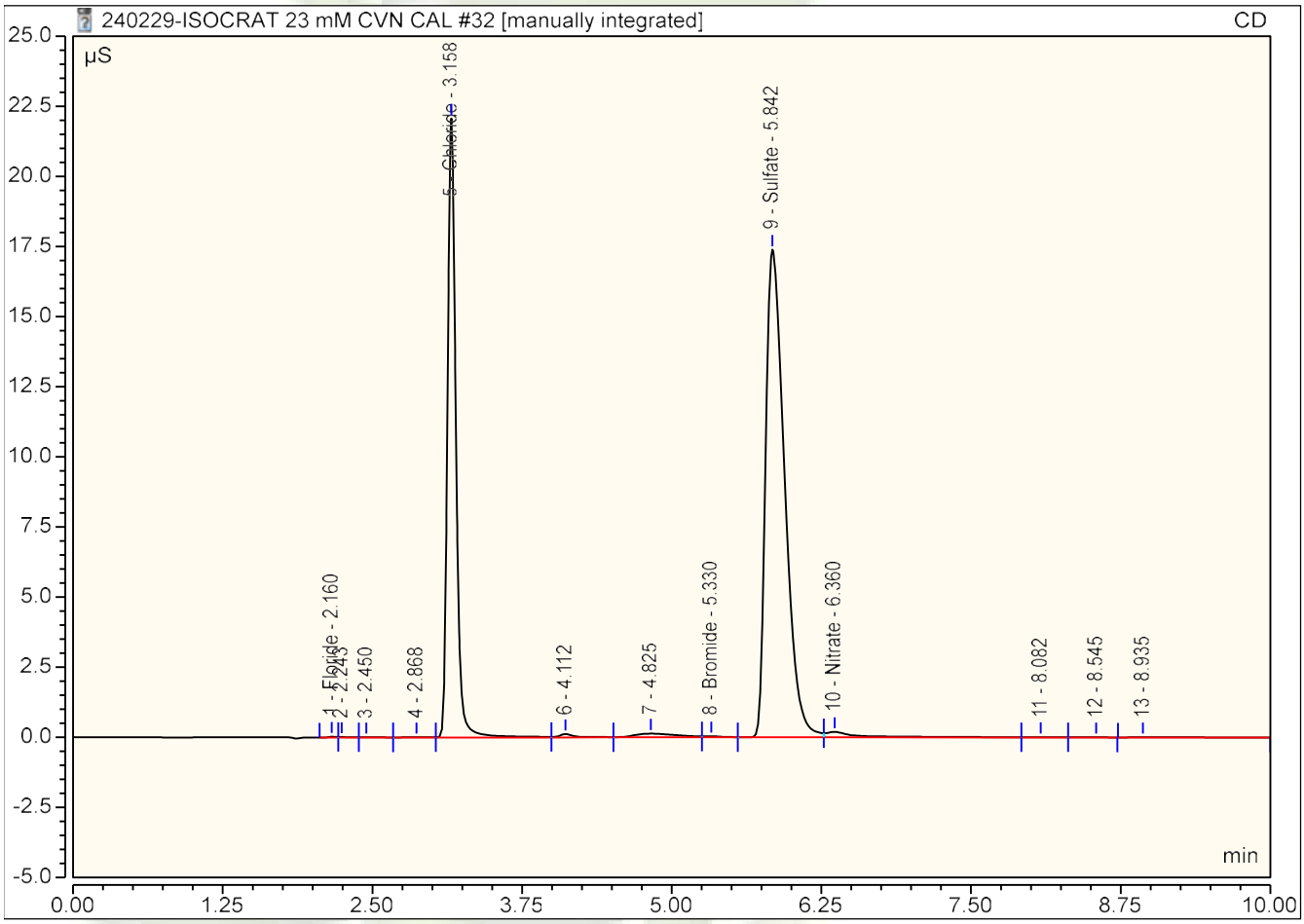
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
1	2.13	**Floride**	BM	0.009	0.118	0.0157
5	3.14	**Chloride**	M	16.763	200.416	47.0067
8	5.30	**Bromide**	M	0.055	0.308	0.4560
9	5.62	**Sulfate**	M *	30.029	96.365	116.8558
10	6.36	**Nitrate**	M	0.436	1.858	0.4962
TOTAL:				47.29	299.07	164.83



Peak Integration Report

Sample Name:	**L2410579-06; 10X**	*Inj. Vol.:*	**5000.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**10.0000**
Instrument Method:	**IC 3 method 23 mM**	*Operator:*	**Wetchem25**
Inj. Date / Time:	**29-Feb-2024 / 18:16**	*Run Time:*	**10.00**

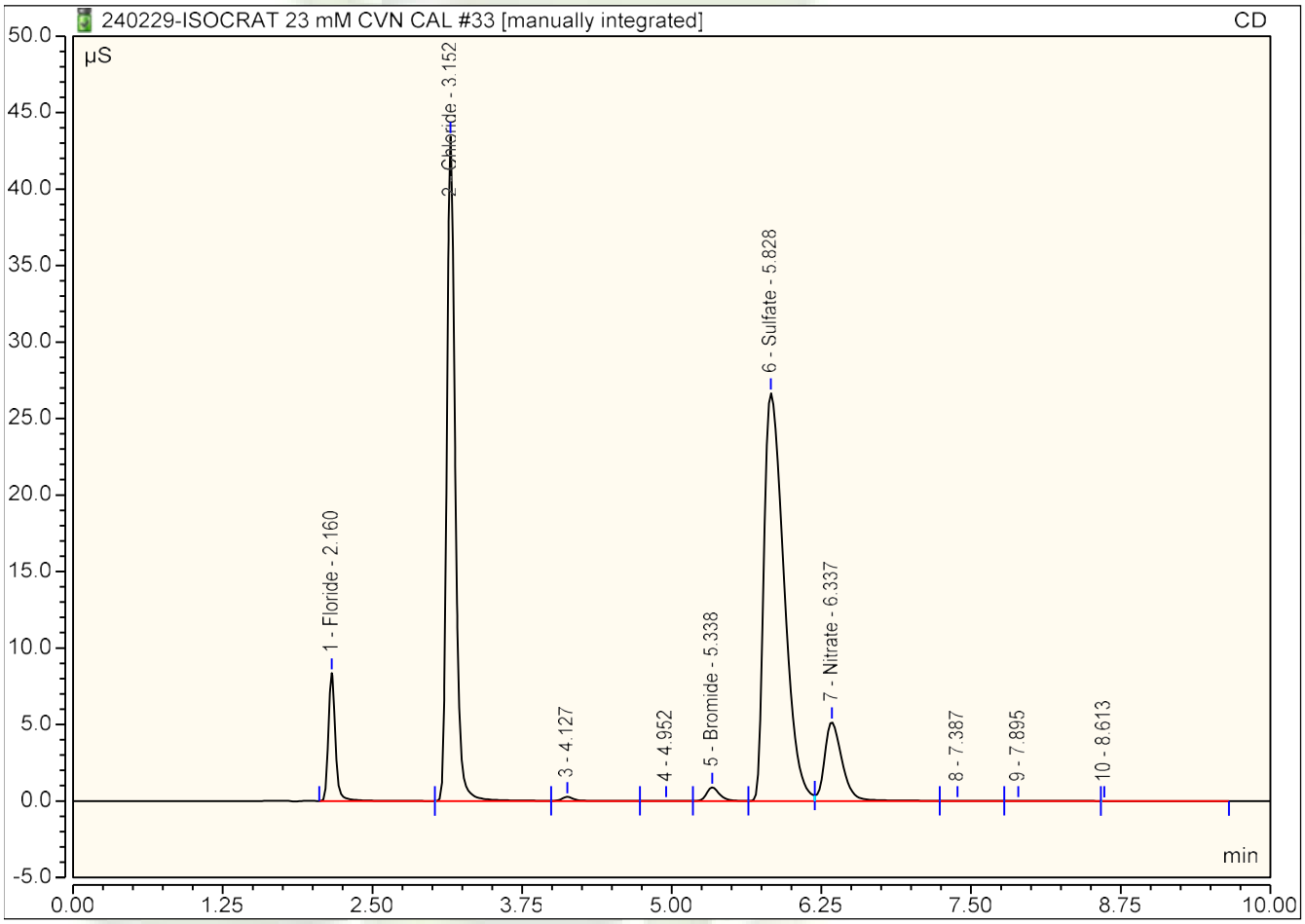
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
1	2.16	**Floride**	BM *	0.003	0.034	0.0372
5	3.16	**Chloride**	M *	1.799	22.068	50.3166
8	5.33	**Bromide**	M *	0.007	0.038	0.6475
9	5.84	**Sulfate**	M *	3.211	17.385	126.1516
10	6.36	**Nitrate**	M *	0.066	0.194	0.8720
TOTAL:				5.08	39.72	178.02



Peak Integration Report

Sample Name:	**CCV**	*Inj. Vol.:*	**5000.00**
Injection Type:	**Check Standard**	*Dilution Factor:*	**1.0000**
Instrument Method:	**IC 3 method 23 mM**	*Operator:*	**Wetchem25**
Inj. Date / Time:	**29-Feb-2024 / 18:26**	*Run Time:*	**10.00**

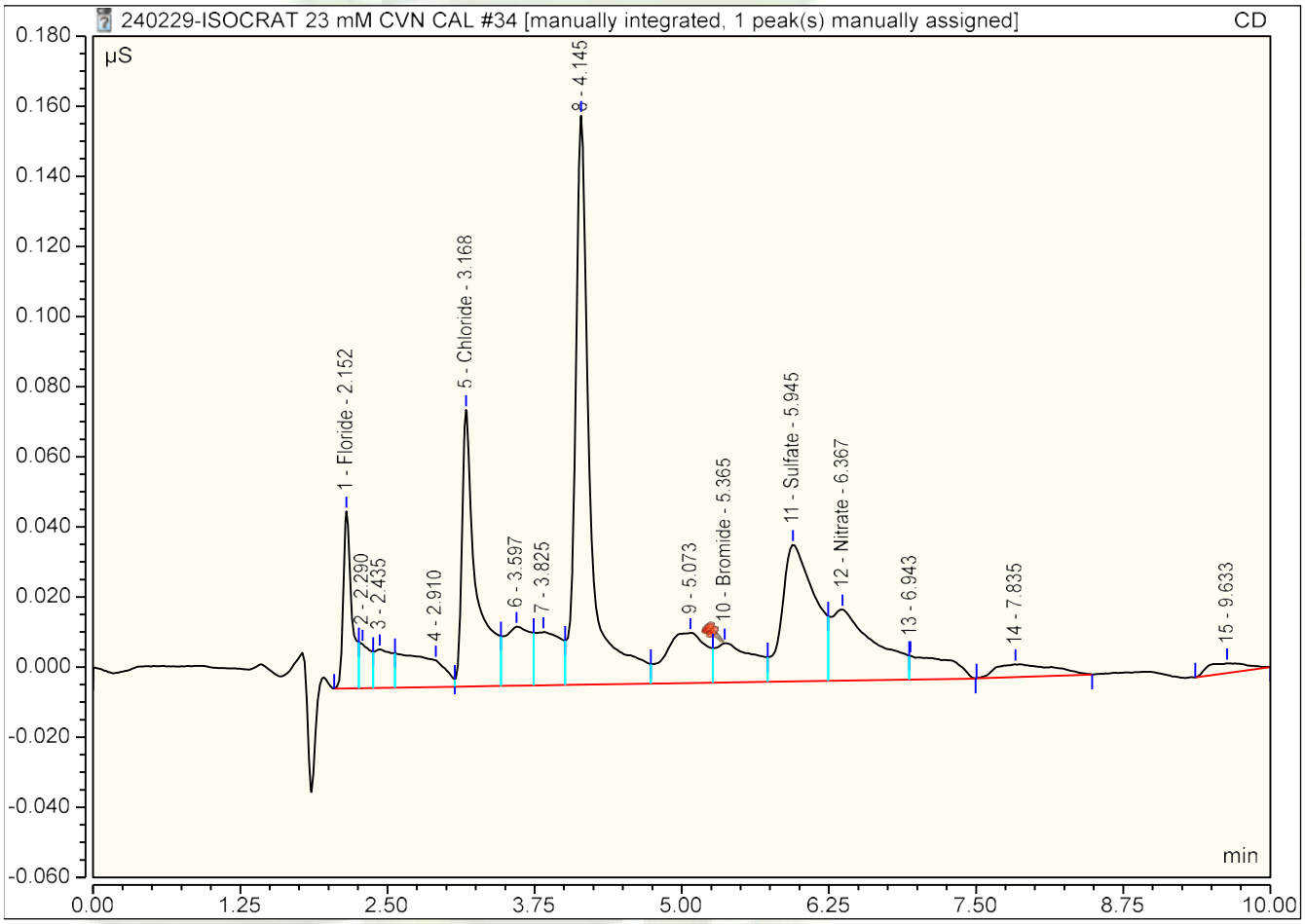
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
1	2.16	**Floride**	BM	0.570	8.367	1.0330
2	3.15	**Chloride**	M	3.562	43.426	9.9787
5	5.34	**Bromide**	M	0.113	0.891	0.9332
6	5.83	**Sulfate**	M *	5.213	26.665	20.3968
7	6.34	**Nitrate**	M *	0.886	5.156	0.9929
TOTAL:				10.34	84.51	33.33



Peak Integration Report

Sample Name:	**CCB**	*Inj. Vol.:*	**5000.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**IC 3 method 23 mM**	*Operator:*	**Wetchem25**
Inj. Date / Time:	**29-Feb-2024 / 18:37**	*Run Time:*	**10.00**

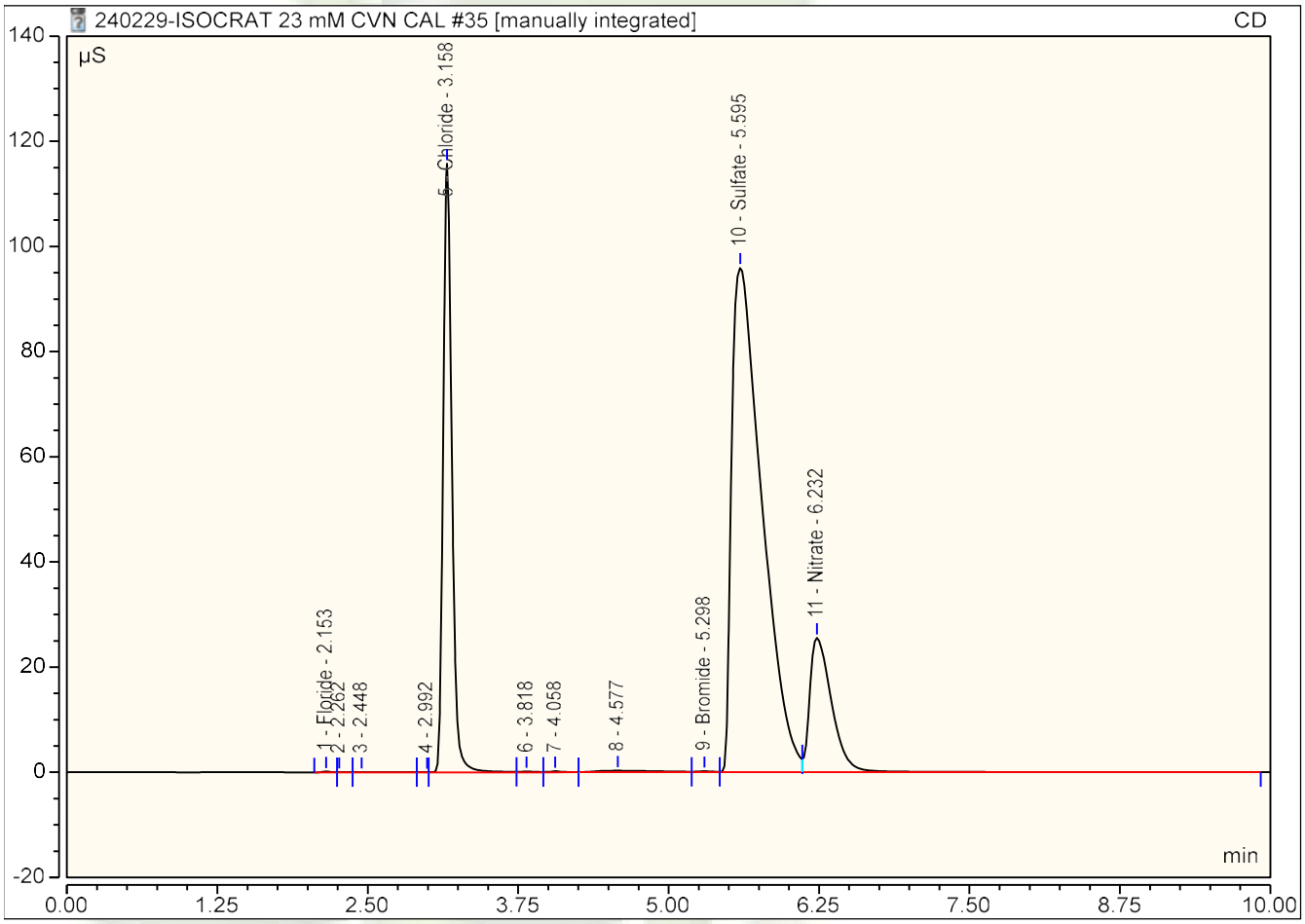
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
1	2.15	**Floride**	BM	0.004	0.051	0.0065
5	3.17	**Chloride**	M	0.011	0.079	0.0174
10	5.37	**Bromide**	M ^	0.004	0.011	0.0451
11	5.95	**Sulfate**	M *	0.013	0.039	0.1848
12	6.37	**Nitrate**	M *	0.009	0.020	0.0245
TOTAL:				0.04	0.20	0.28



Peak Integration Report

Sample Name:	**L2410579-07**	*Inj. Vol.:*	**5000.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**IC 3 method 23 mM**	*Operator:*	**Wetchem25**
Inj. Date / Time:	**29-Feb-2024 / 18:48**	*Run Time:*	**10.00**

No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
1	2.15	**Floride**	BM	0.010	0.133	0.0164
5	3.16	**Chloride**	M	9.682	115.731	27.1437
9	5.30	**Bromide**	M	0.033	0.195	0.2764
10	5.60	**Sulfate**	M *	27.899	95.942	108.5769
11	6.23	**Nitrate**	MB	5.474	25.536	6.0564
TOTAL:				43.10	237.54	142.07



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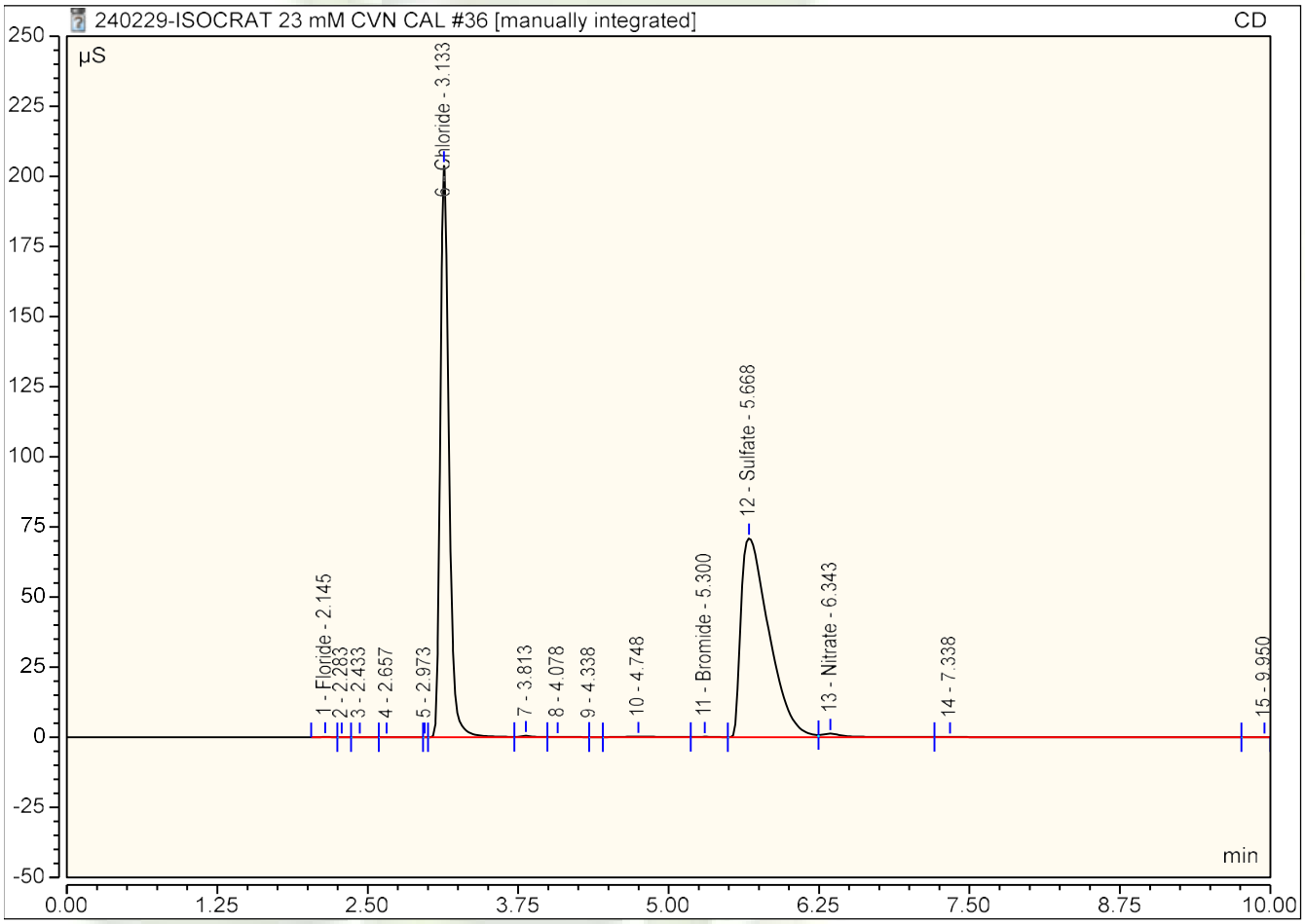
Peak Integration Report

Sample Name:	**L2410579-08**	*Inj. Vol.:*	**5000.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**IC 3 method 23 mM**	*Operator:*	**Wetchem25**
Inj. Date / Time:	**29-Feb-2024 / 18:59**	*Run Time:*	**10.00**

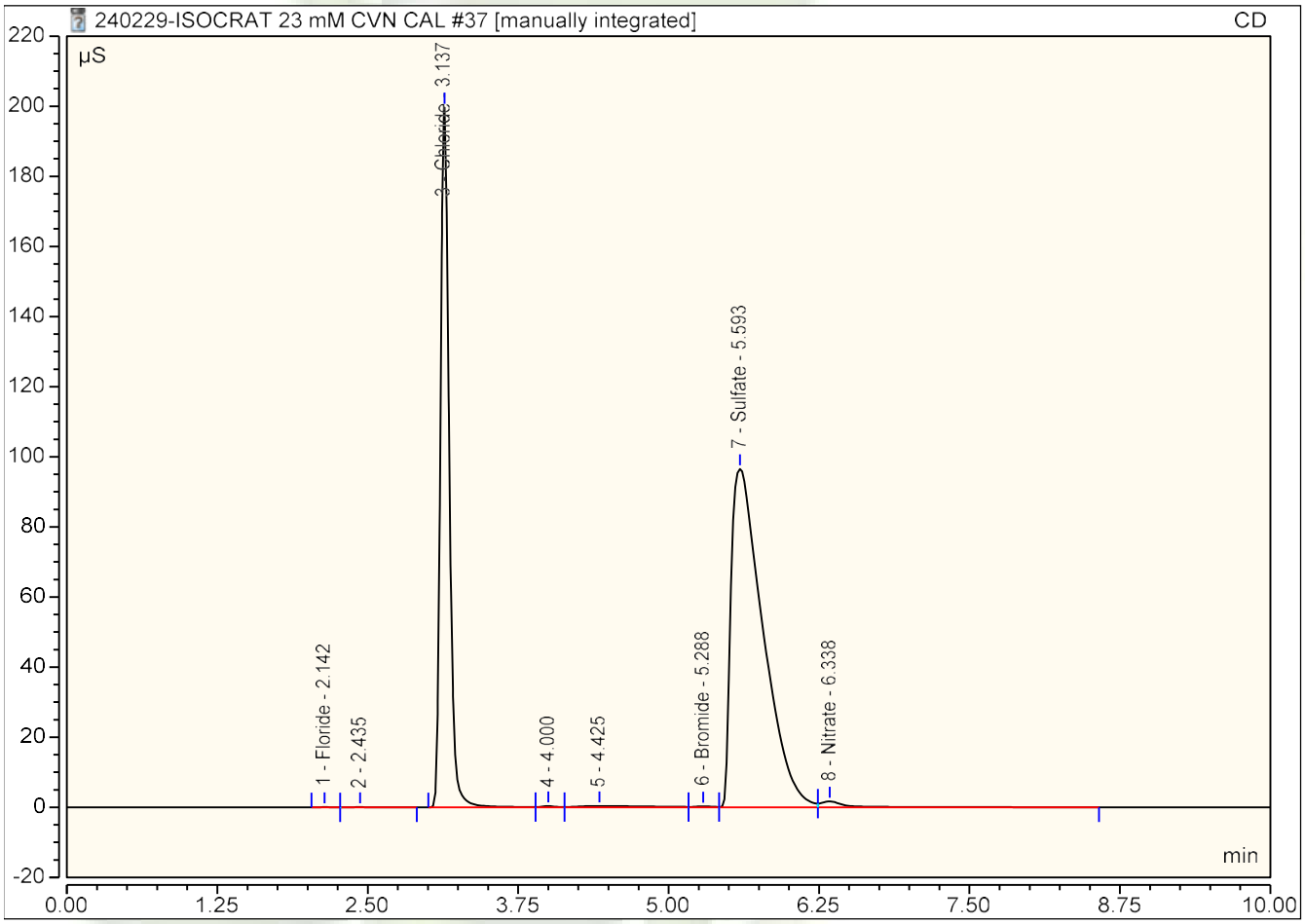
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
1	2.15	**Floride**	BM	0.010	0.133	0.0168
6	3.13	**Chloride**	M	17.144	203.756	48.0763
11	5.30	**Bromide**	M	0.030	0.171	0.2580
12	5.67	**Sulfate**	M *	19.176	70.943	74.6734
13	6.34	**Nitrate**	M	0.307	1.276	0.3537
TOTAL:				36.67	276.28	123.38



Peak Integration Report

Sample Name:	**L2410579-09**	*Inj. Vol.:*	**5000.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**IC 3 method 23 mM**	*Operator:*	**Wetchem25**
Inj. Date / Time:	**29-Feb-2024 / 19:10**	*Run Time:*	**10.00**

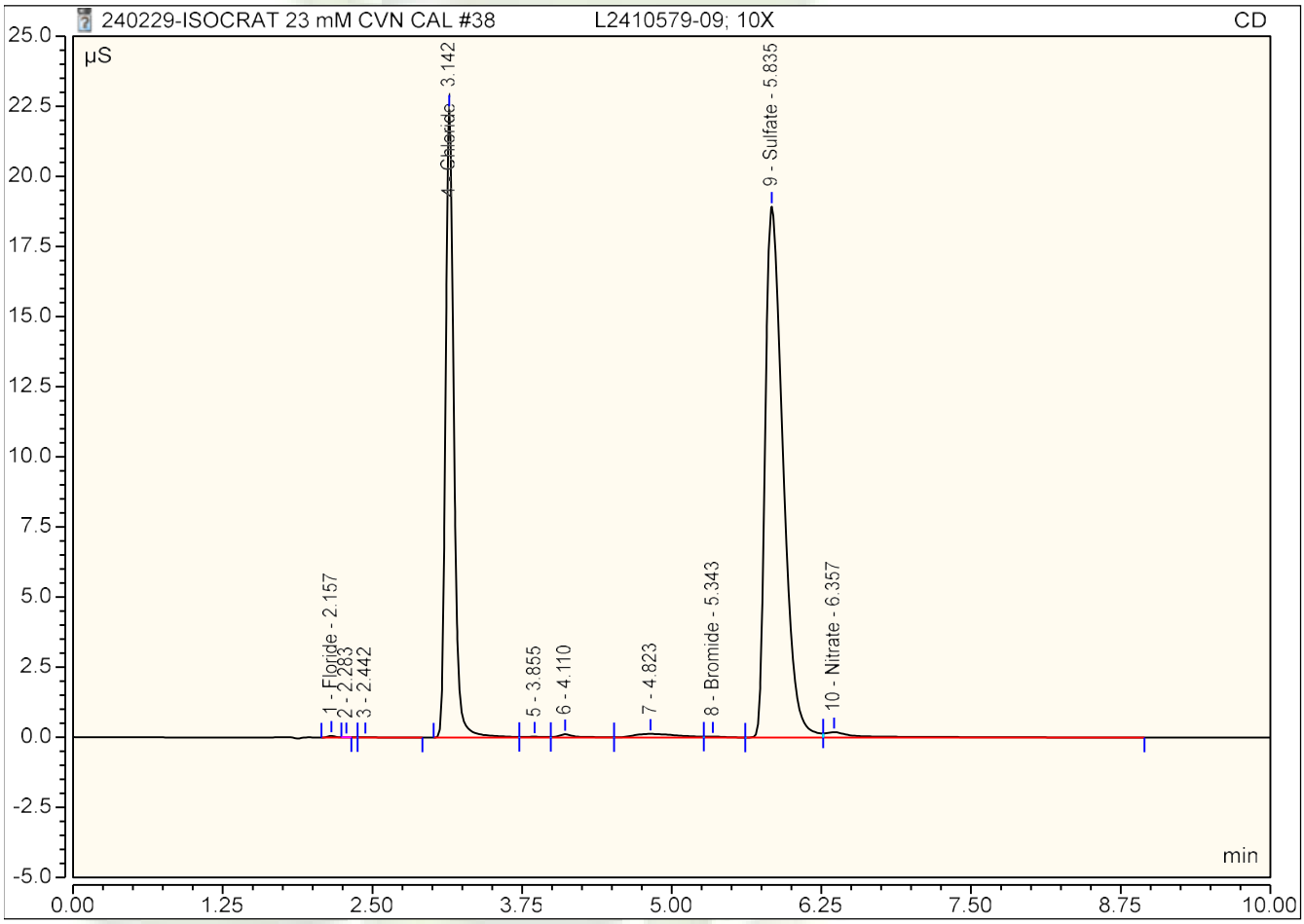
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
1	2.14	**Floride**	BM	0.009	0.112	0.0155
3	3.14	**Chloride**	BM	16.771	199.656	47.0306
6	5.29	**Bromide**	M	0.048	0.291	0.4006
7	5.59	**Sulfate**	M *	29.583	96.545	115.1229
8	6.34	**Nitrate**	MB	0.434	1.709	0.4938
TOTAL:				46.85	298.31	163.06



Peak Integration Report

Sample Name:	**L2410579-09; 10X**	*Inj. Vol.:*	**5000.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**10.0000**
Instrument Method:	**IC 3 method 23 mM**	*Operator:*	**Wetchem25**
Inj. Date / Time:	**29-Feb-2024 / 19:21**	*Run Time:*	**10.00**

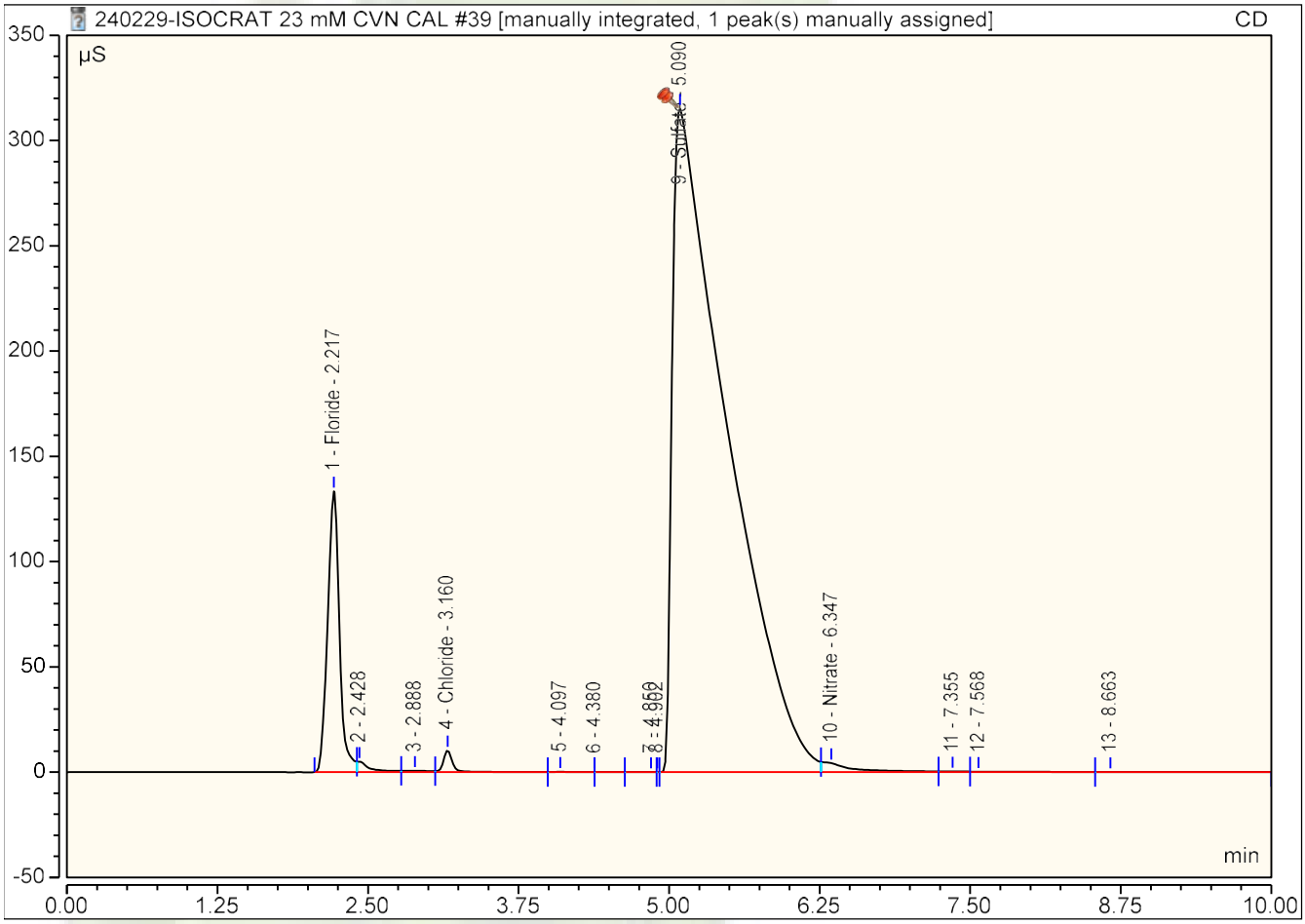
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
1	2.16	**Floride**	BM	0.005	0.058	0.0829
4	3.14	**Chloride**	BM	1.815	22.380	50.7640
8	5.34	**Bromide**	M	0.007	0.038	0.6794
9	5.84	**Sulfate**	M	3.268	18.928	128.3971
10	6.36	**Nitrate**	MB	0.076	0.193	0.9850
TOTAL:				5.17	41.60	180.91



Peak Integration Report

Sample Name:	**L2410730-04 CL**	*Inj. Vol.:*	**5000.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**IC 3 method 23 mM**	*Operator:*	**Wetchem25**
Inj. Date / Time:	**29-Feb-2024 / 19:32**	*Run Time:*	**10.00**

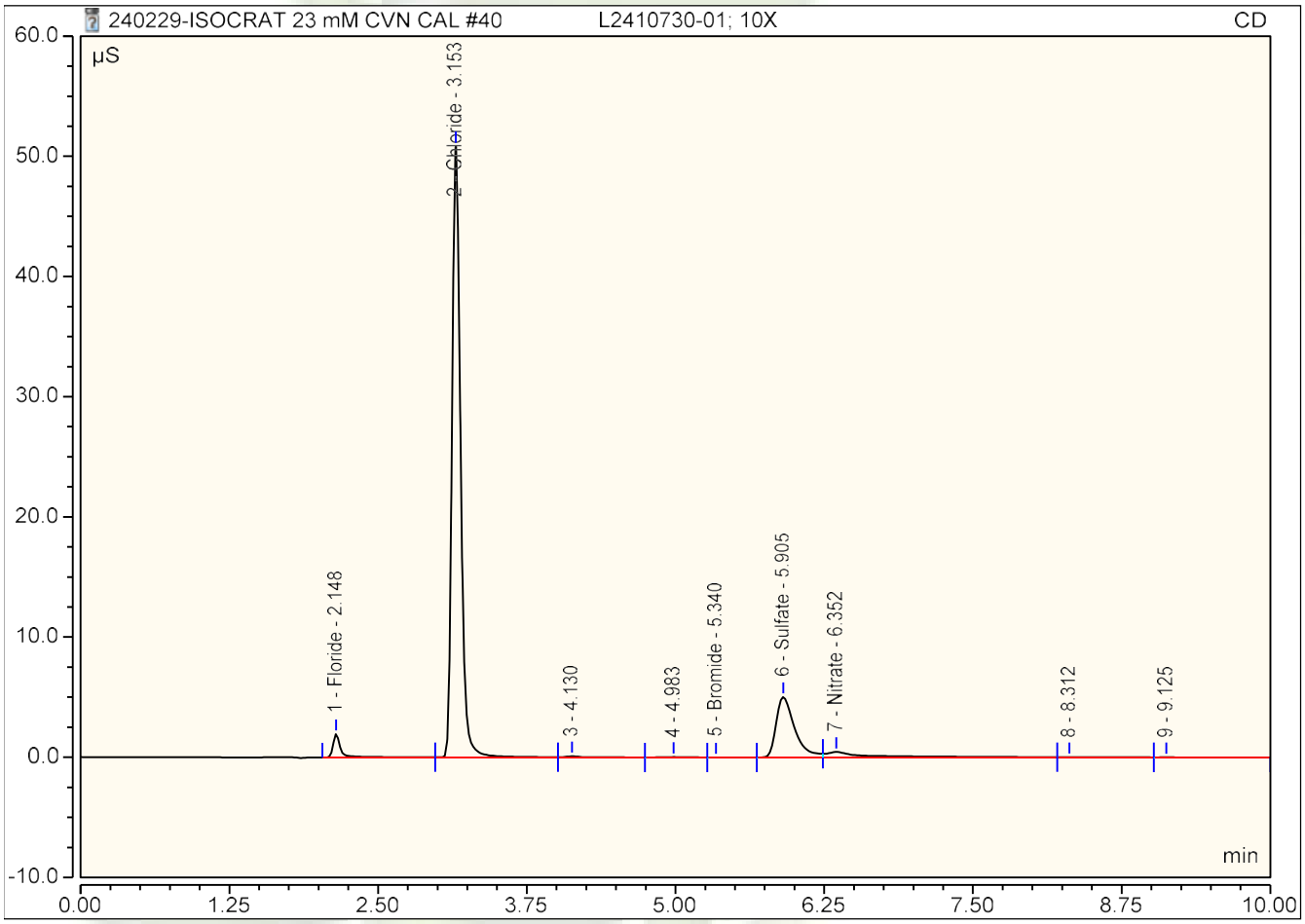
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
1	2.22	**Floride**	BM	15.263	133.383	27.7089
4	3.16	**Chloride**	M	0.955	10.343	2.6652
9	5.09	**Sulfate**	M *^	165.284	315.082	642.5871
10	6.35	**Nitrate**	M	1.378	4.272	1.5351
TOTAL:				182.88	463.08	674.50



Peak Integration Report

Sample Name:	**L2410730-01; 10X**	*Inj. Vol.:*	**5000.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**10.0000**
Instrument Method:	**IC 3 method 23 mM**	*Operator:*	**Wetchem25**
Inj. Date / Time:	**29-Feb-2024 / 19:43**	*Run Time:*	**10.00**

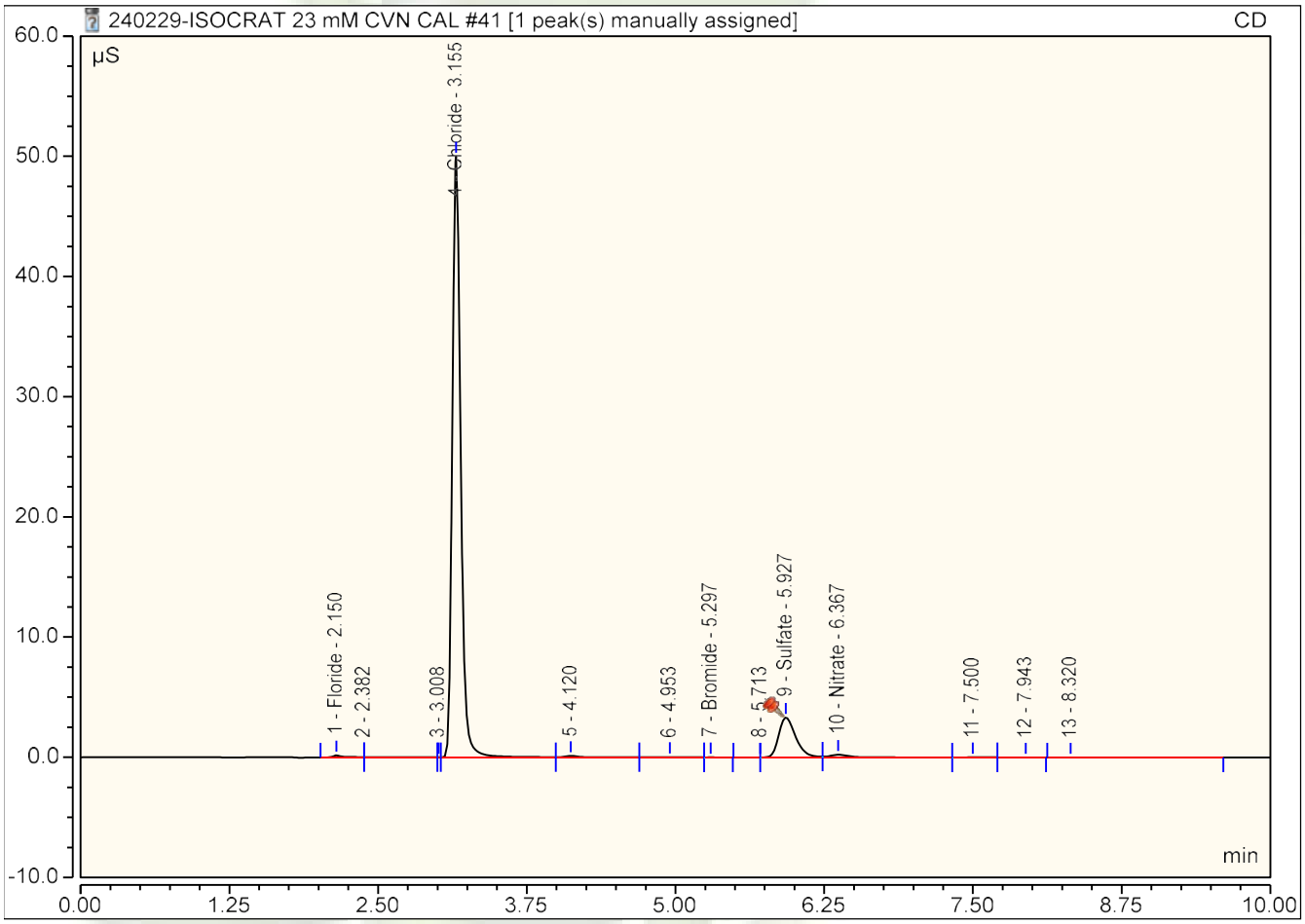
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
1	2.15	**Floride**	BM	0.159	1.955	2.8806
2	3.15	**Chloride**	M	4.240	50.850	118.7811
5	5.34	**Bromide**	M	0.003	0.010	0.3156
6	5.91	**Sulfate**	M	0.910	5.023	36.7169
7	6.35	**Nitrate**	M	0.217	0.457	2.5408
TOTAL:				5.53	58.29	161.24



Peak Integration Report

Sample Name:	**L2410730-02; 10X**	*Inj. Vol.:*	**5000.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**10.0000**
Instrument Method:	**IC 3 method 23 mM**	*Operator:*	**Wetchem25**
Inj. Date / Time:	**29-Feb-2024 / 19:54**	*Run Time:*	**10.00**

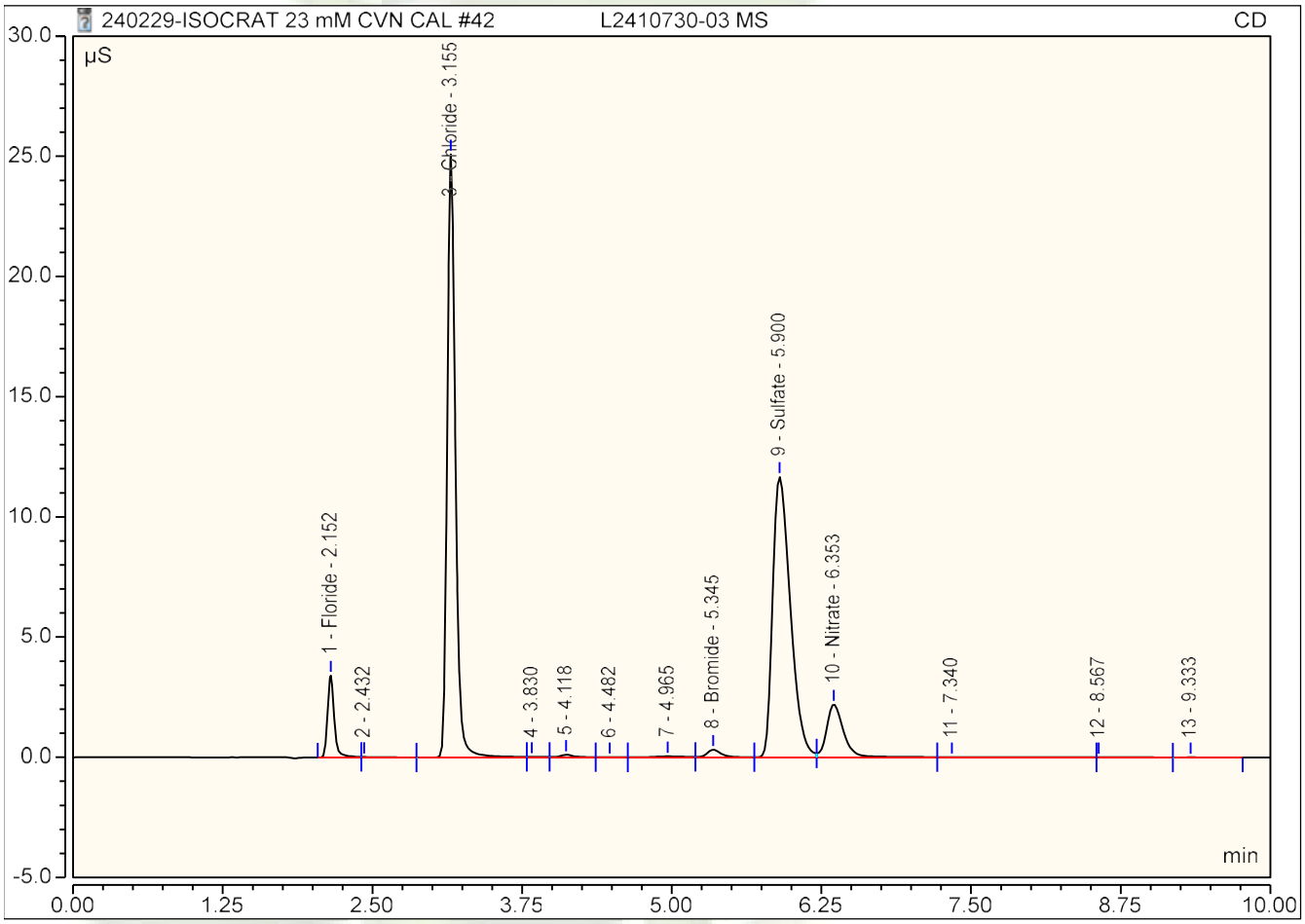
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
1	2.15	**Floride**	BM	0.019	0.175	0.3264
4	3.16	**Chloride**	M	4.109	50.002	115.1088
7	5.30	**Bromide**	MB	0.002	0.012	0.2565
9	5.93	**Sulfate**	M ^	0.550	3.324	22.7473
10	6.37	**Nitrate**	M	0.051	0.232	0.7057
TOTAL:				4.73	53.75	139.14



Peak Integration Report

Sample Name:	**L2410730-03 MS**	*Inj. Vol.:*	**5000.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**IC 3 method 23 mM**	*Operator:*	**Wetchem25**
Inj. Date / Time:	**29-Feb-2024 / 20:05**	*Run Time:*	**10.00**

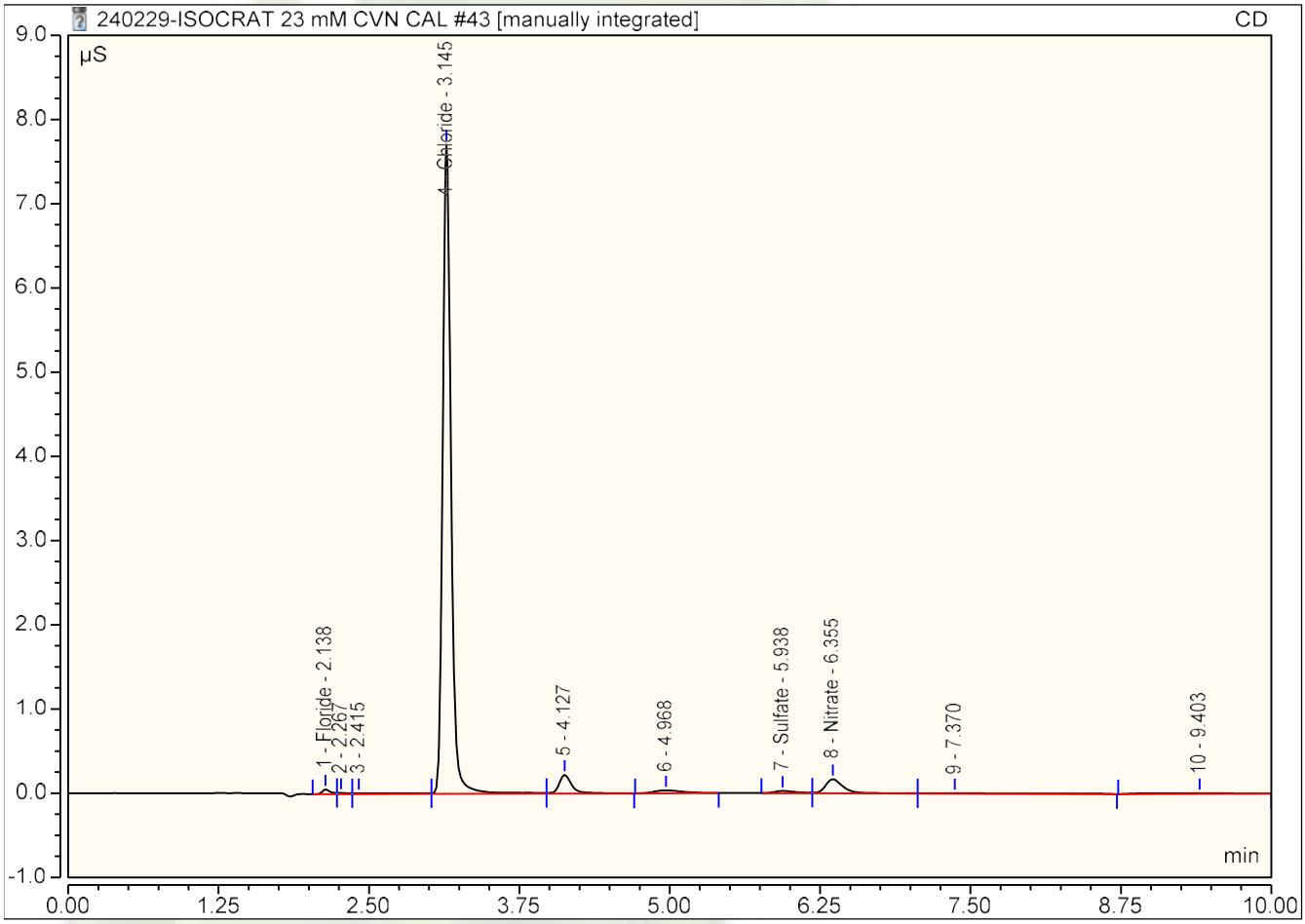
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
1	2.15	**Floride**	BM	0.224	3.414	0.4051
3	3.16	**Chloride**	M	2.025	25.101	5.6663
8	5.35	**Bromide**	M	0.049	0.325	0.4060
9	5.90	**Sulfate**	M	2.013	11.680	7.9588
10	6.35	**Nitrate**	M	0.373	2.206	0.4258
TOTAL:				4.68	42.73	14.86



Peak Integration Report

Sample Name:	**L2410730-03 DUP**	*Inj. Vol.:*	**5000.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**IC 3 method 23 mM**	*Operator:*	**Wetchem25**
Inj. Date / Time:	**29-Feb-2024 / 20:16**	*Run Time:*	**10.00**

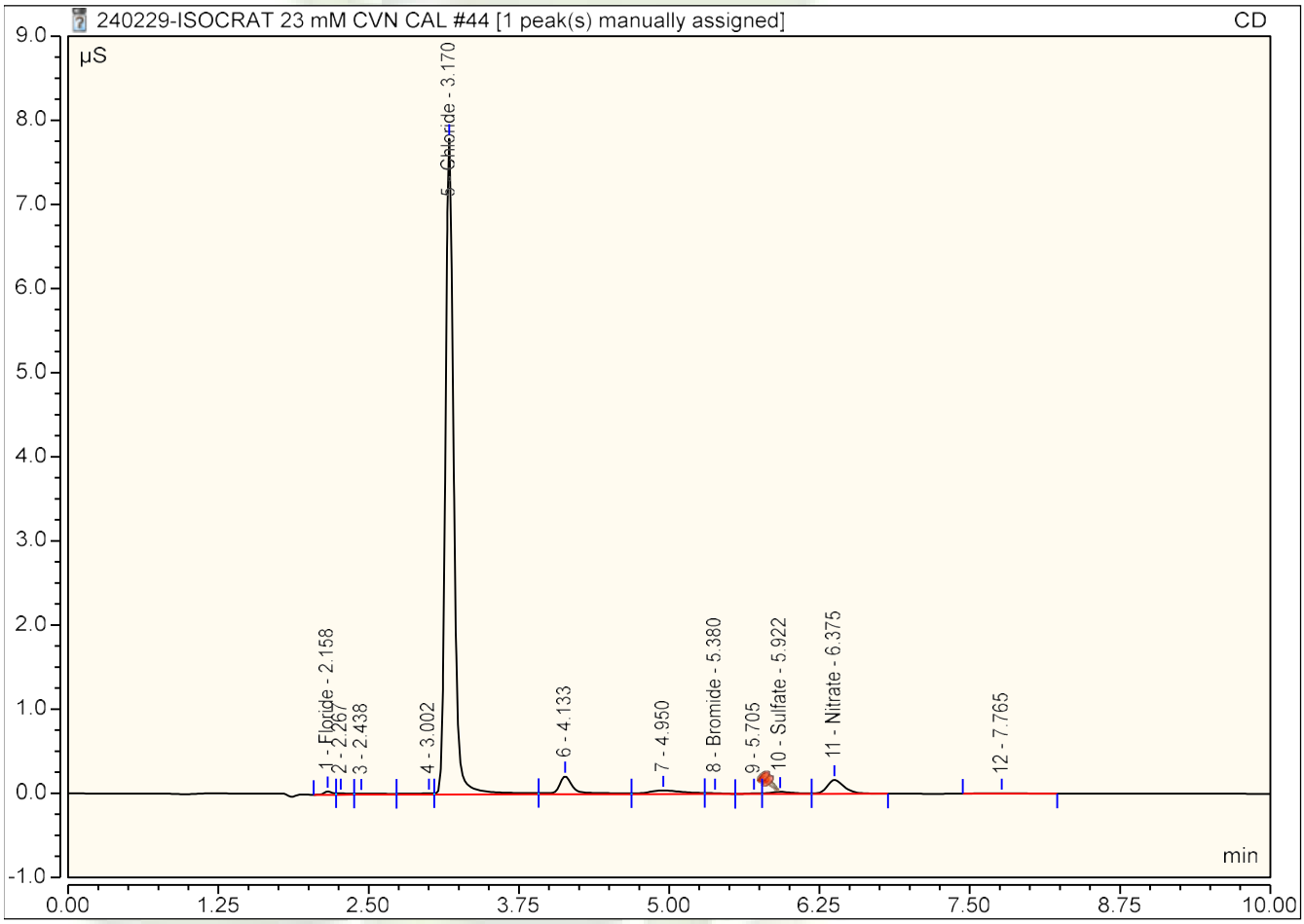
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
1	2.14	**Floride**	BM	0.005	0.057	0.0071
4	3.15	**Chloride**	M	0.622	7.711	1.7293
7	5.94	**Sulfate**	BM *	0.006	0.027	0.1573
8	6.36	**Nitrate**	M *	0.029	0.167	0.0468
TOTAL:				0.66	7.96	1.94



Peak Integration Report

Sample Name:	**L2410730-03**	*Inj. Vol.:*	**5000.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**IC 3 method 23 mM**	*Operator:*	**Wetchem25**
Inj. Date / Time:	**29-Feb-2024 / 20:27**	*Run Time:*	**10.00**

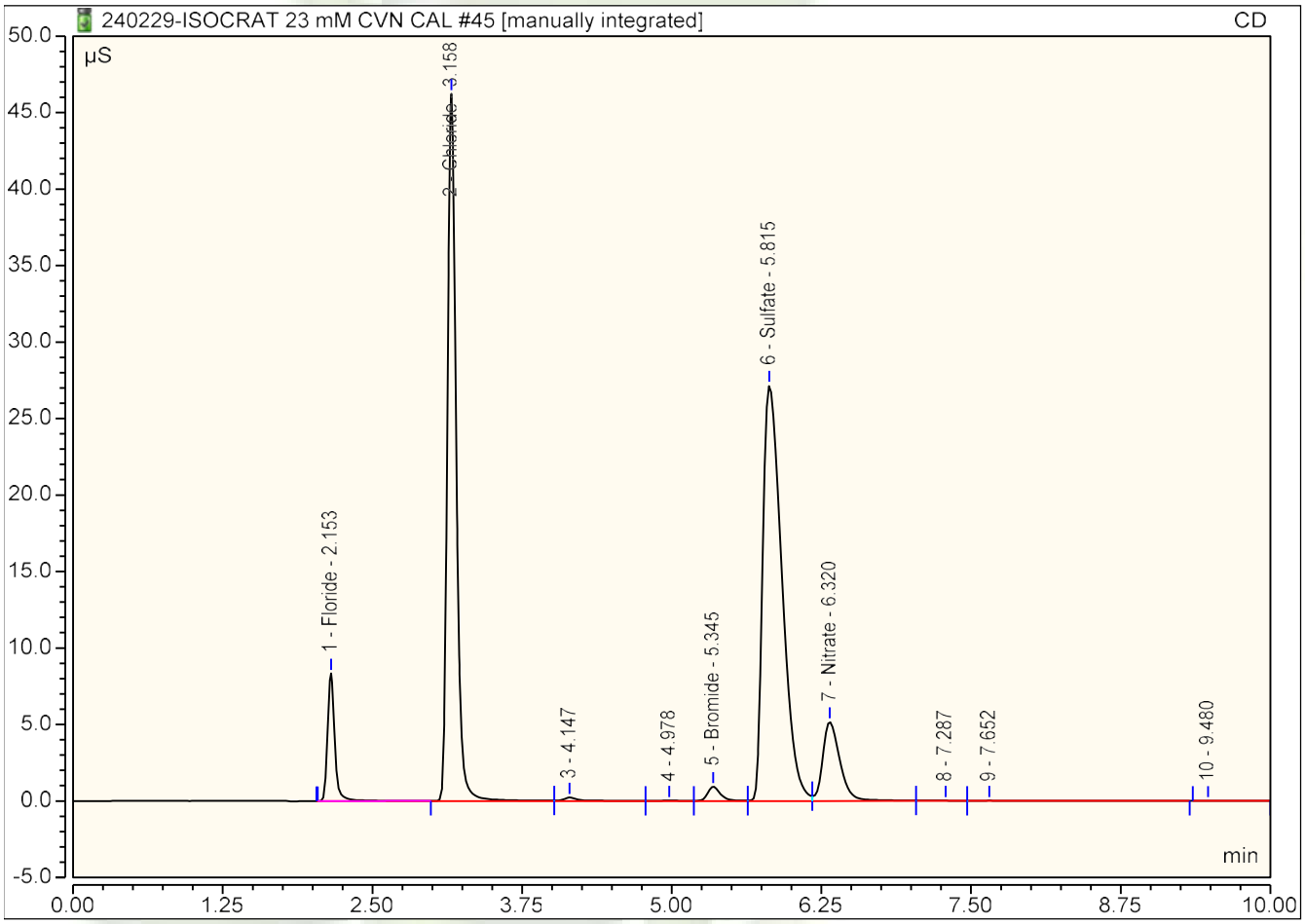
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
1	2.16	**Floride**	BM	0.003	0.041	0.0048
5	3.17	**Chloride**	M	0.627	7.796	1.7451
8	5.38	**Bromide**	M	0.002	0.010	0.0249
10	5.92	**Sulfate**	M ^	0.006	0.025	0.1574
11	6.38	**Nitrate**	MB	0.027	0.164	0.0447
TOTAL:				0.67	8.04	1.98



Peak Integration Report

Sample Name:	**XCCV**	*Inj. Vol.:*	**5000.00**
Injection Type:	**Check Standard**	*Dilution Factor:*	**1.0000**
Instrument Method:	**IC 3 method 23 mM**	*Operator:*	**Wetchem25**
Inj. Date / Time:	**29-Feb-2024 / 20:37**	*Run Time:*	**10.00**

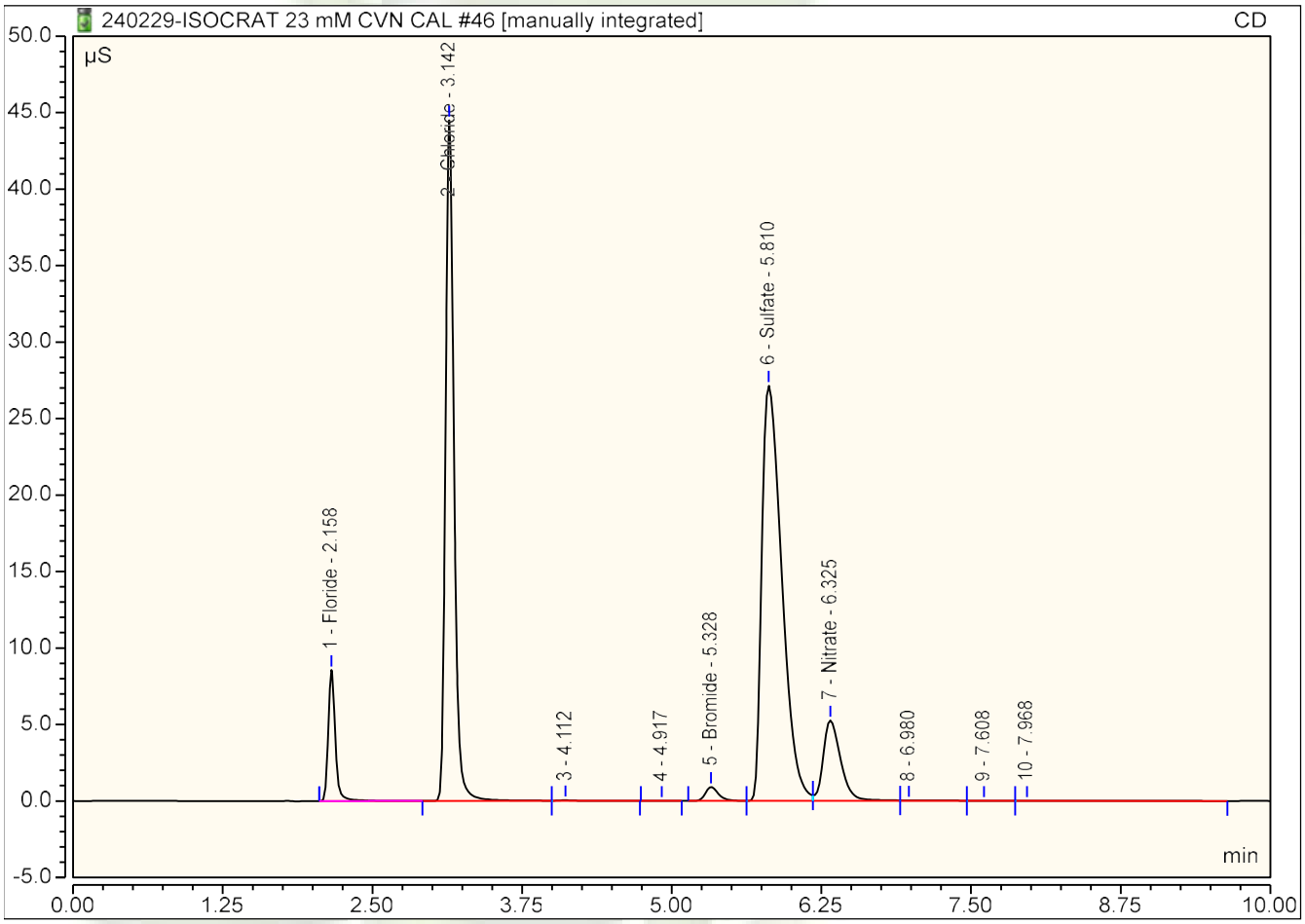
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
1	2.15	**Floride**	Ru	0.583	8.343	1.0568
2	3.16	**Chloride**	BM	3.975	46.238	11.1360
5	5.35	**Bromide**	M	0.119	0.934	0.9843
6	5.82	**Sulfate**	M *	5.080	27.164	19.8800
7	6.32	**Nitrate**	M *	0.874	5.169	0.9788
TOTAL:				10.63	87.85	34.04



Peak Integration Report

Sample Name:	**CCV**	*Inj. Vol.:*	**5000.00**
Injection Type:	**Check Standard**	*Dilution Factor:*	**1.0000**
Instrument Method:	**IC 3 method 23 mM**	*Operator:*	**Wetchem25**
Inj. Date / Time:	**29-Feb-2024 / 20:51**	*Run Time:*	**10.00**

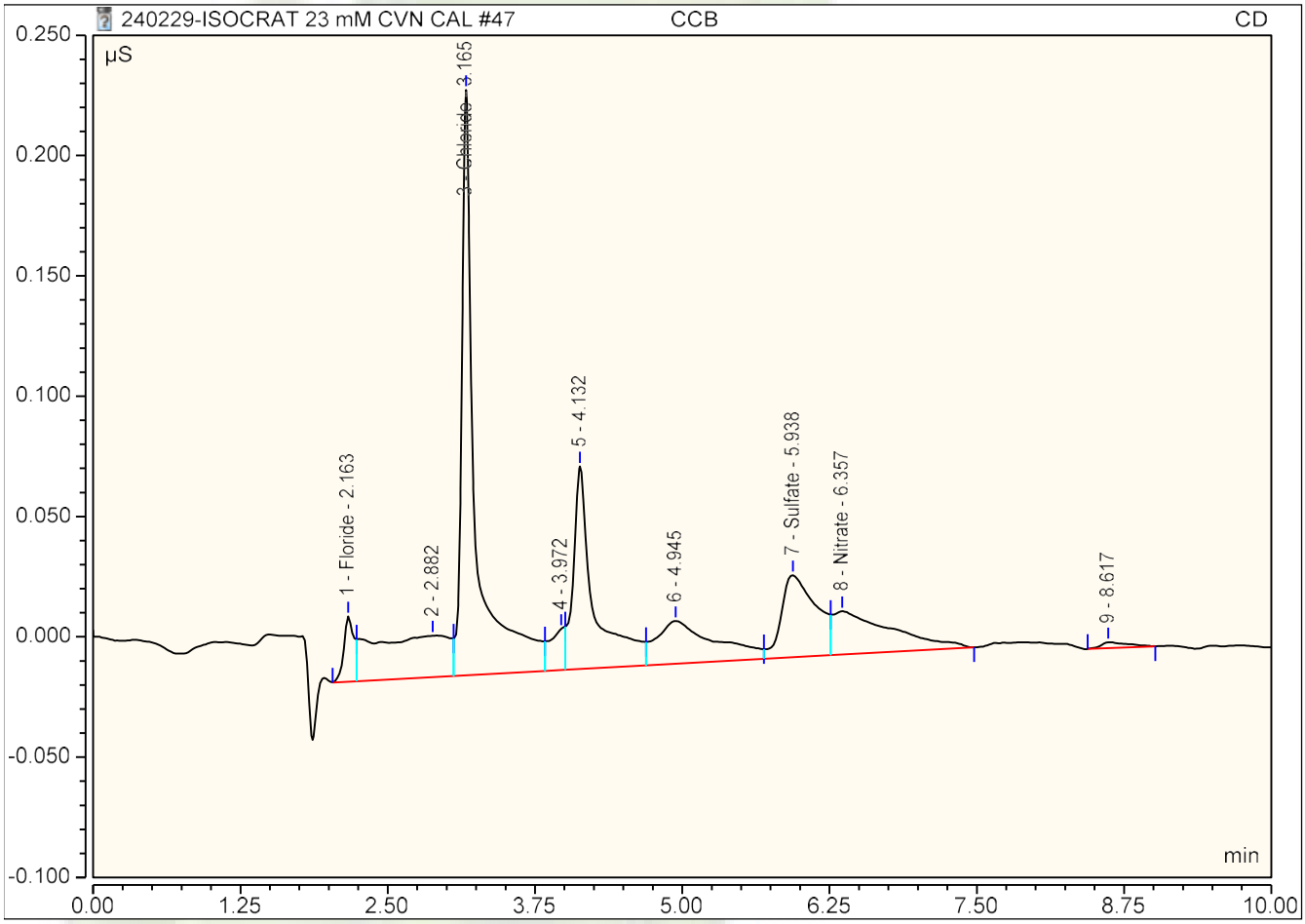
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
1	2.16	**Floride**	Ru	0.586	8.560	1.0628
2	3.14	**Chloride**	BM	3.664	44.502	10.2642
5	5.33	**Bromide**	BM	0.116	0.914	0.9583
6	5.81	**Sulfate**	M *	5.297	27.151	20.7231
7	6.33	**Nitrate**	M *	0.900	5.265	1.0079
TOTAL:				10.56	86.39	34.02



Peak Integration Report

Sample Name:	**CCB**	*Inj. Vol.:*	**5000.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**IC 3 method 23 mM**	*Operator:*	**Wetchem25**
Inj. Date / Time:	**29-Feb-2024 / 21:02**	*Run Time:*	**10.00**

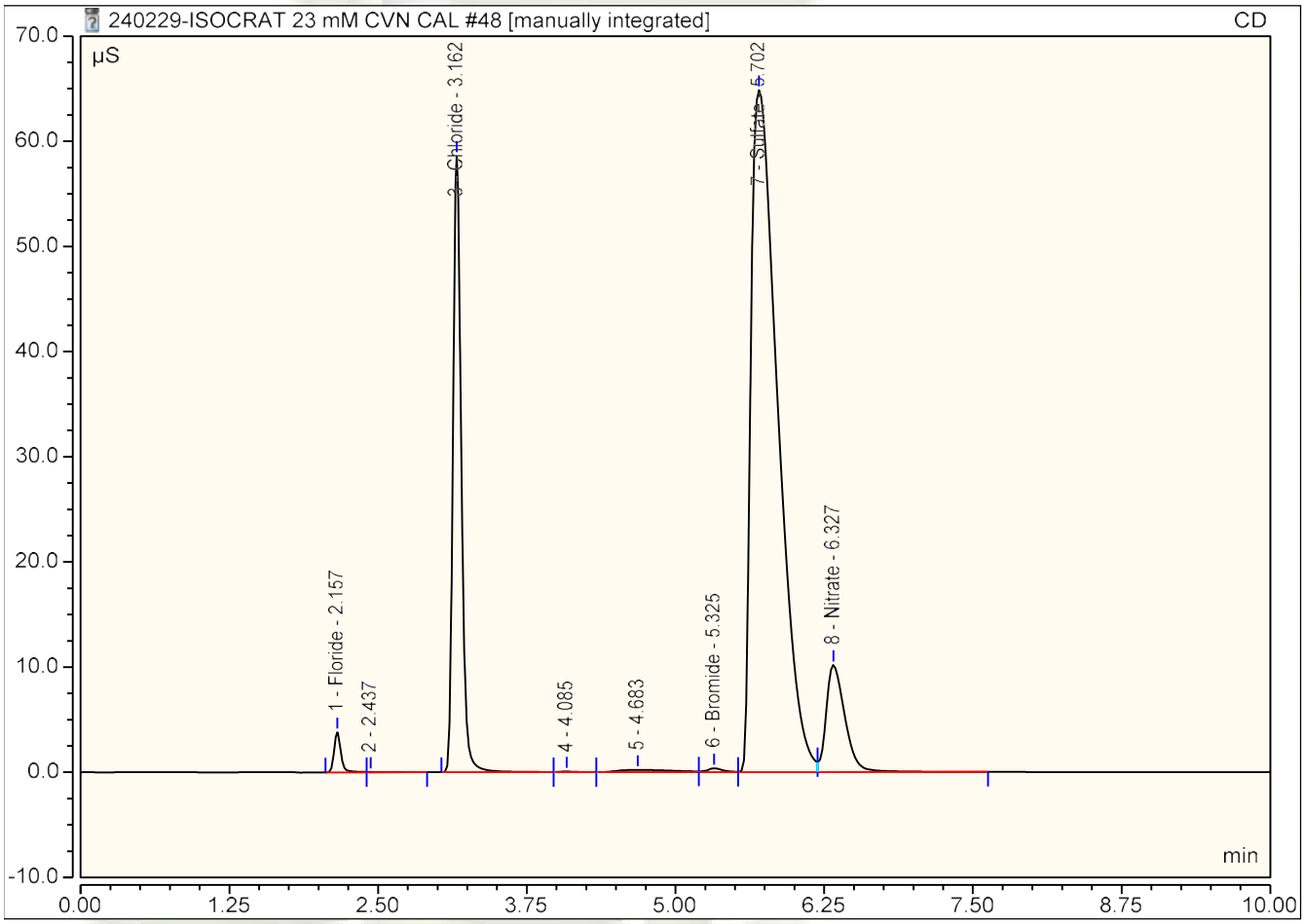
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
1	2.16	**Floride**	BM	0.003	0.027	0.0039
3	3.17	**Chloride**	M	0.033	0.243	0.0792
7	5.94	**Sulfate**	M	0.012	0.034	0.1812
8	6.36	**Nitrate**	MB	0.010	0.018	0.0260
TOTAL:				0.06	0.32	0.29



Peak Integration Report

Sample Name:	**L2410579-02 MS**	*Inj. Vol.:*	**5000.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**IC 3 method 23 mM**	*Operator:*	**Wetchem25**
Inj. Date / Time:	**29-Feb-2024 / 21:13**	*Run Time:*	**10.00**

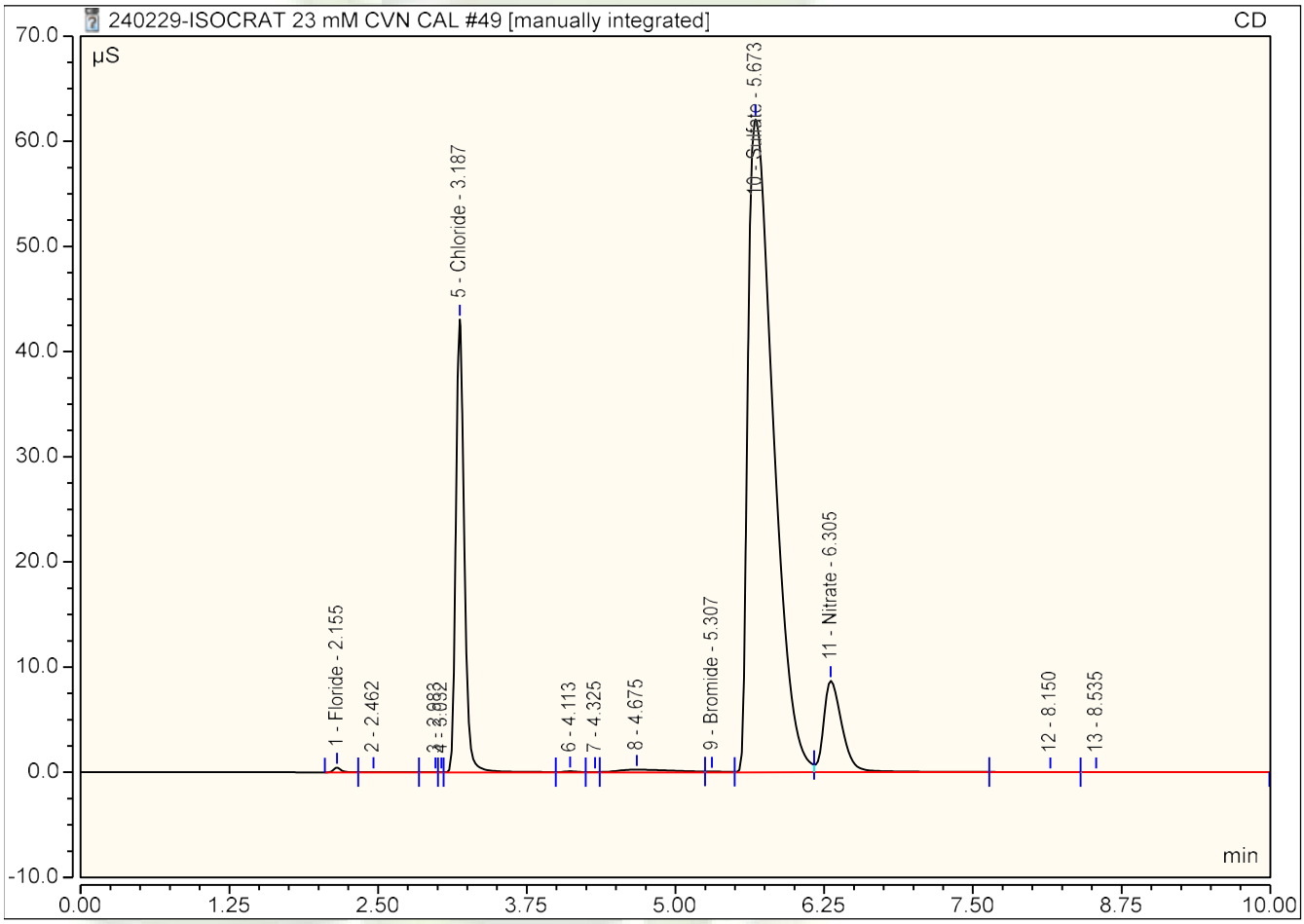
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
1	2.16	**Floride**	BM	0.255	3.810	0.4619
3	3.16	**Chloride**	BM	4.749	58.608	13.3079
6	5.33	**Bromide**	M	0.053	0.360	0.4404
7	5.70	**Sulfate**	M *	16.917	64.844	65.8913
8	6.33	**Nitrate**	MB*	1.863	10.171	2.0706
TOTAL:				23.84	137.79	82.17



Peak Integration Report

Sample Name:	**L2410579-02 DUP**	*Inj. Vol.:*	**5000.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**IC 3 method 23 mM**	*Operator:*	**Wetchem25**
Inj. Date / Time:	**29-Feb-2024 / 21:24**	*Run Time:*	**10.00**

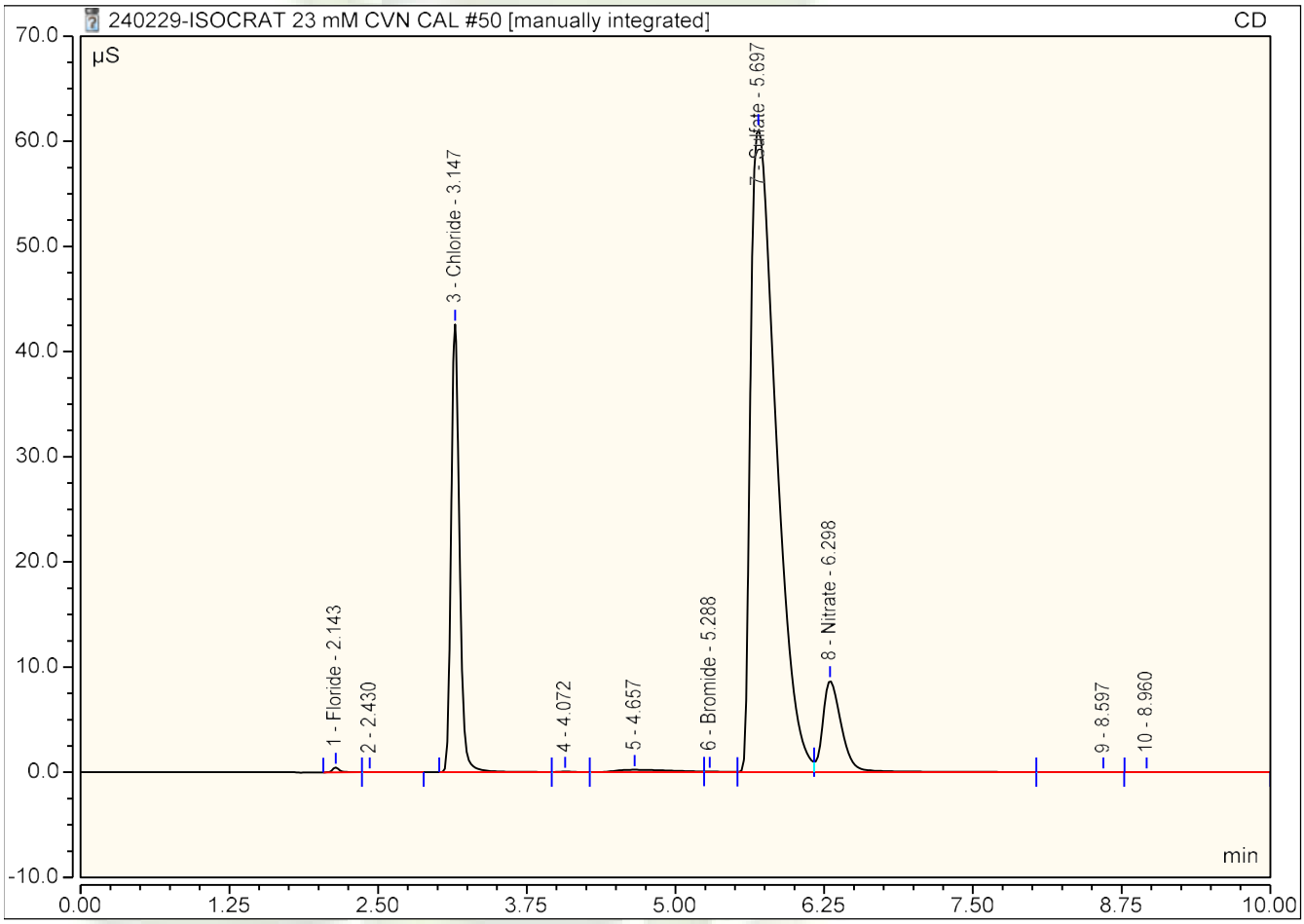
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
1	2.16	**Floride**	BM	0.034	0.476	0.0608
5	3.19	**Chloride**	M	3.539	43.070	9.9132
9	5.31	**Bromide**	M	0.015	0.075	0.1310
10	5.67	**Sulfate**	M *	15.253	62.094	59.4222
11	6.31	**Nitrate**	M *	1.590	8.694	1.7694
TOTAL:				20.43	114.41	71.30



Peak Integration Report

Sample Name:	**L2410579-02**	*Inj. Vol.:*	**5000.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**IC 3 method 23 mM**	*Operator:*	**Wetchem25**
Inj. Date / Time:	**29-Feb-2024 / 21:35**	*Run Time:*	**10.00**

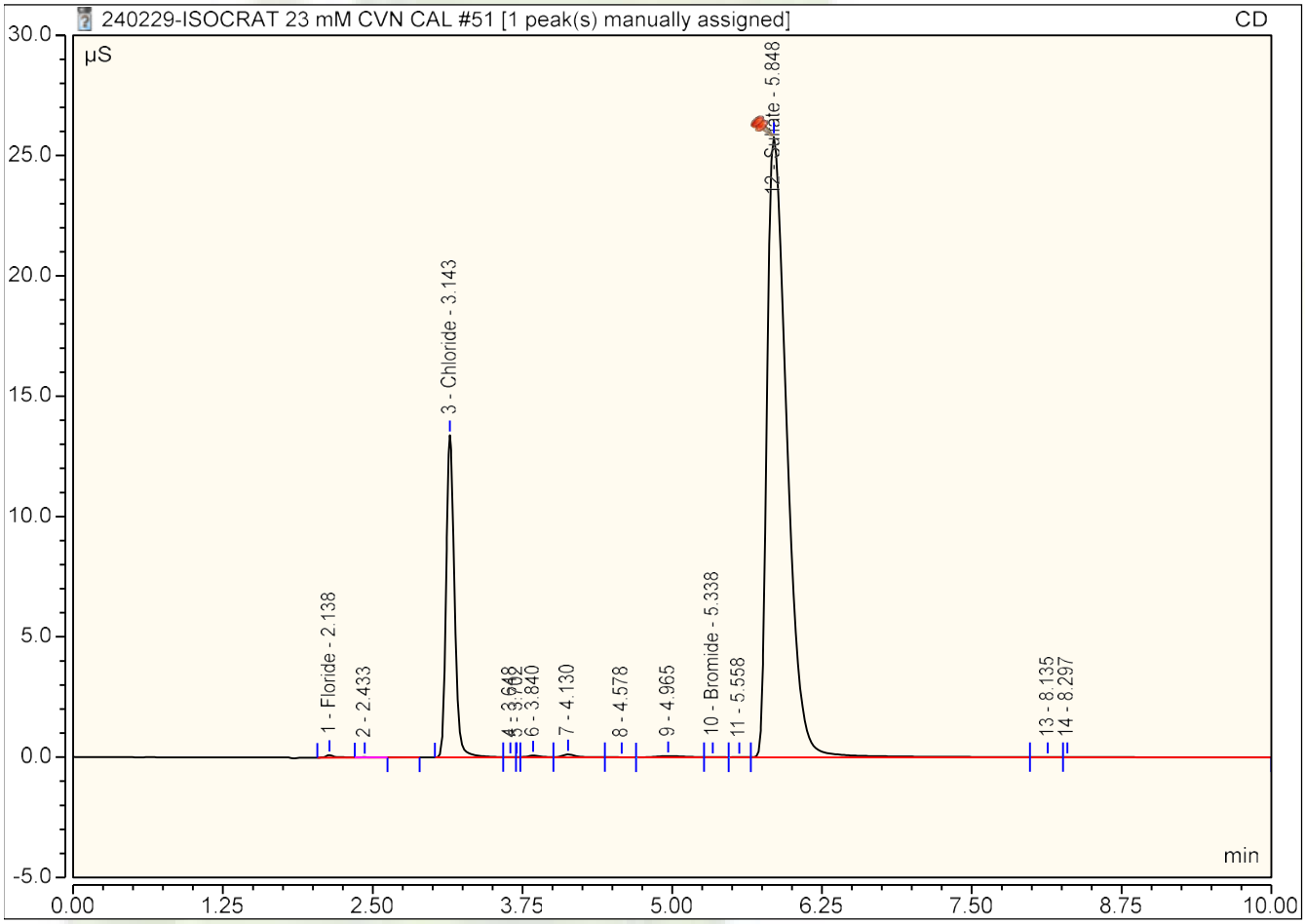
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
1	2.14	**Floride**	BM	0.033	0.467	0.0592
3	3.15	**Chloride**	BM	3.501	42.595	9.8051
6	5.29	**Bromide**	M	0.015	0.073	0.1309
7	5.70	**Sulfate**	M *	15.095	61.184	58.8097
8	6.30	**Nitrate**	M *	1.622	8.691	1.8044
TOTAL:				20.27	113.01	70.61



Peak Integration Report

Sample Name:	**L2410579-01; 10X**	*Inj. Vol.:*	**5000.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**10.0000**
Instrument Method:	**IC 3 method 23 mM**	*Operator:*	**Wetchem25**
Inj. Date / Time:	**29-Feb-2024 / 21:46**	*Run Time:*	**10.00**

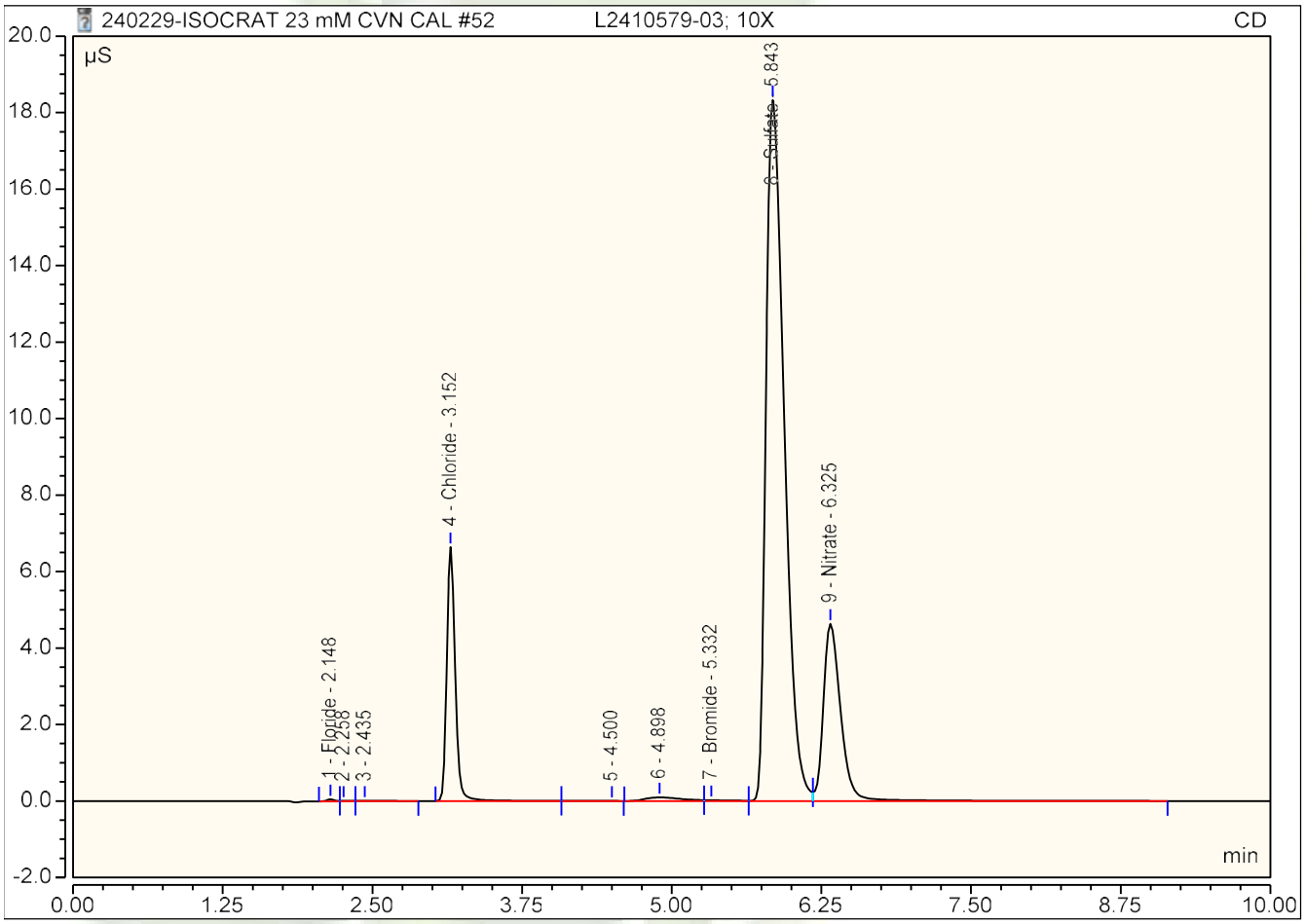
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
1	2.14	**Floride**	BMB	0.011	0.108	0.1963
3	3.14	**Chloride**	BM	1.078	13.389	30.0835
10	5.34	**Bromide**	M	0.002	0.015	0.2996
12	5.85	**Sulfate**	M ^	4.978	25.780	194.8633
TOTAL:				6.07	39.29	225.44



Peak Integration Report

Sample Name:	**L2410579-03; 10X**	*Inj. Vol.:*	**5000.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**10.0000**
Instrument Method:	**IC 3 method 23 mM**	*Operator:*	**Wetchem25**
Inj. Date / Time:	**29-Feb-2024 / 21:57**	*Run Time:*	**10.00**

No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
1	2.15	**Floride**	BM	0.004	0.052	0.0569
4	3.15	**Chloride**	BM	0.543	6.637	15.0819
7	5.33	**Bromide**	M	0.006	0.023	0.5664
8	5.84	**Sulfate**	M	3.248	18.326	127.6024
9	6.33	**Nitrate**	MB	0.789	4.633	8.8506
TOTAL:				4.59	29.67	152.16



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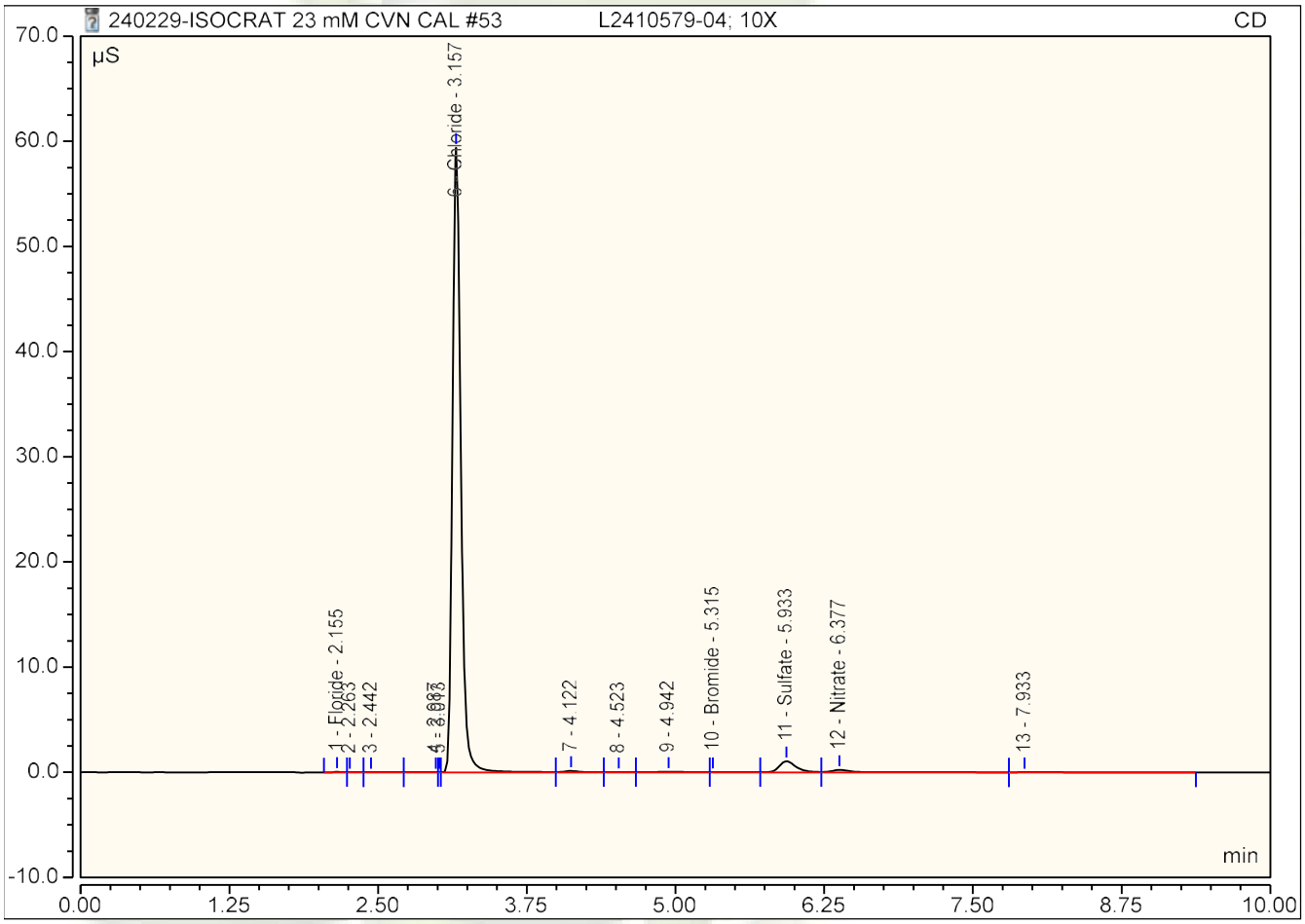
Peak Integration Report

Sample Name:	**L2410579-04; 10X**	*Inj. Vol.:*	**5000.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**10.0000**
Instrument Method:	**IC 3 method 23 mM**	*Operator:*	**Wetchem25**
Inj. Date / Time:	**29-Feb-2024 / 22:08**	*Run Time:*	**10.00**

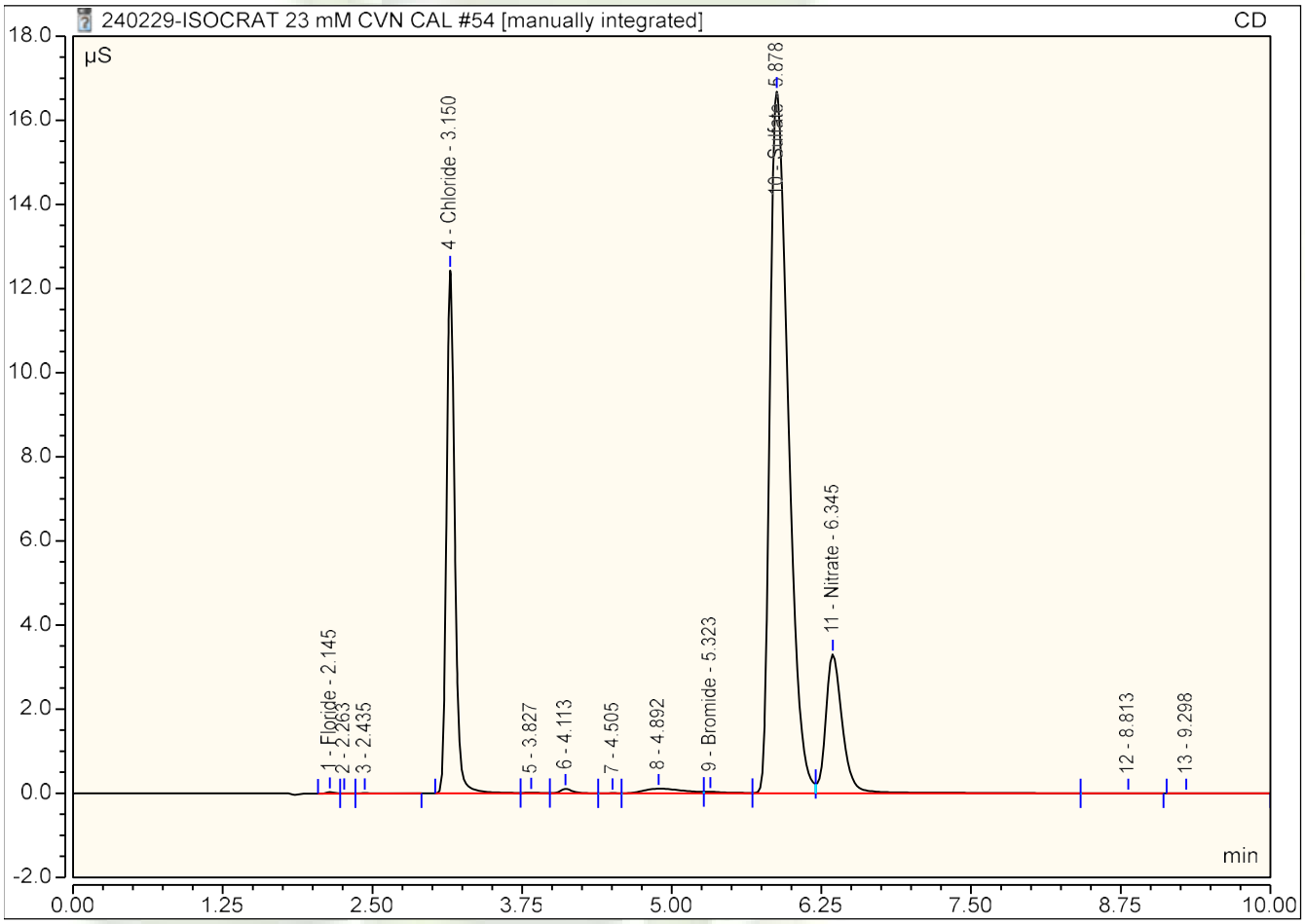
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
1	2.16	**Floride**	BM	0.004	0.046	0.0535
6	3.16	**Chloride**	M	4.858	59.397	136.1181
10	5.32	**Bromide**	M	0.006	0.021	0.6365
11	5.93	**Sulfate**	M	0.176	1.061	8.2071
12	6.38	**Nitrate**	M	0.056	0.230	0.7621
TOTAL:				5.10	60.76	145.78



Peak Integration Report

Sample Name:	**L2410579-07; 10X**	*Inj. Vol.:*	**5000.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**10.0000**
Instrument Method:	**IC 3 method 23 mM**	*Operator:*	**Wetchem25**
Inj. Date / Time:	**29-Feb-2024 / 22:19**	*Run Time:*	**10.00**

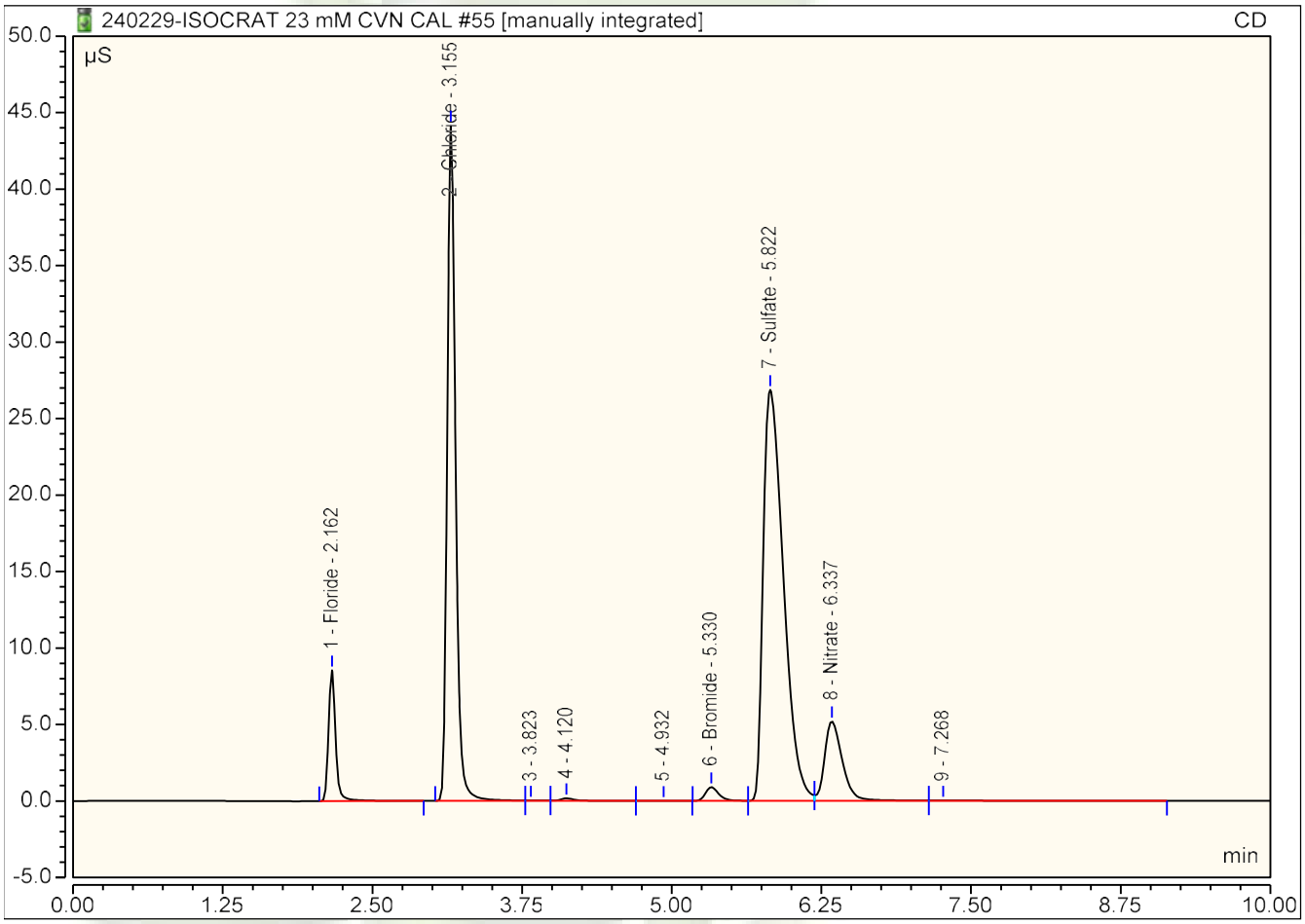
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
1	2.15	**Floride**	BM	0.003	0.039	0.0431
4	3.15	**Chloride**	BM	0.995	12.426	27.7780
9	5.32	**Bromide**	M	0.009	0.036	0.8120
10	5.88	**Sulfate**	M *	2.979	16.681	117.1502
11	6.35	**Nitrate**	M *	0.549	3.305	6.2020
TOTAL:				4.53	32.49	151.99



Peak Integration Report

Sample Name:	**CCV**	*Inj. Vol.:*	**5000.00**
Injection Type:	**Check Standard**	*Dilution Factor:*	**1.0000**
Instrument Method:	**IC 3 method 23 mM**	*Operator:*	**Wetchem25**
Inj. Date / Time:	**29-Feb-2024 / 22:29**	*Run Time:*	**10.00**

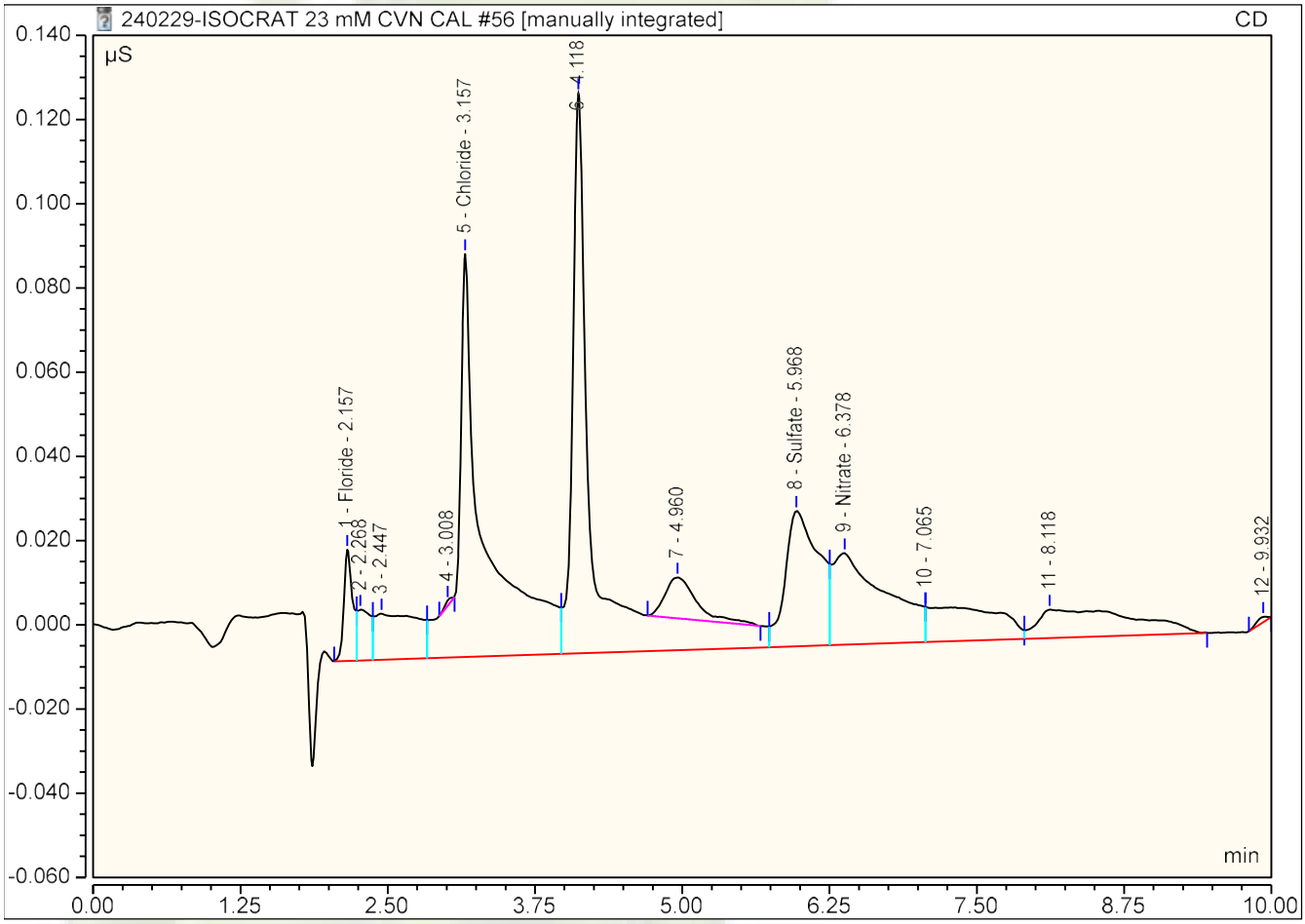
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
1	2.16	**Floride**	BMB	0.589	8.545	1.0677
2	3.16	**Chloride**	BM	3.616	44.167	10.1288
6	5.33	**Bromide**	BM	0.118	0.905	0.9737
7	5.82	**Sulfate**	M *	5.294	26.876	20.7146
8	6.34	**Nitrate**	M *	0.903	5.213	1.0107
TOTAL:				10.52	85.71	33.90



Peak Integration Report

Sample Name:	**CCB**	*Inj. Vol.:*	**5000.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**IC 3 method 23 mM**	*Operator:*	**Wetchem25**
Inj. Date / Time:	**29-Feb-2024 / 22:40**	*Run Time:*	**10.00**

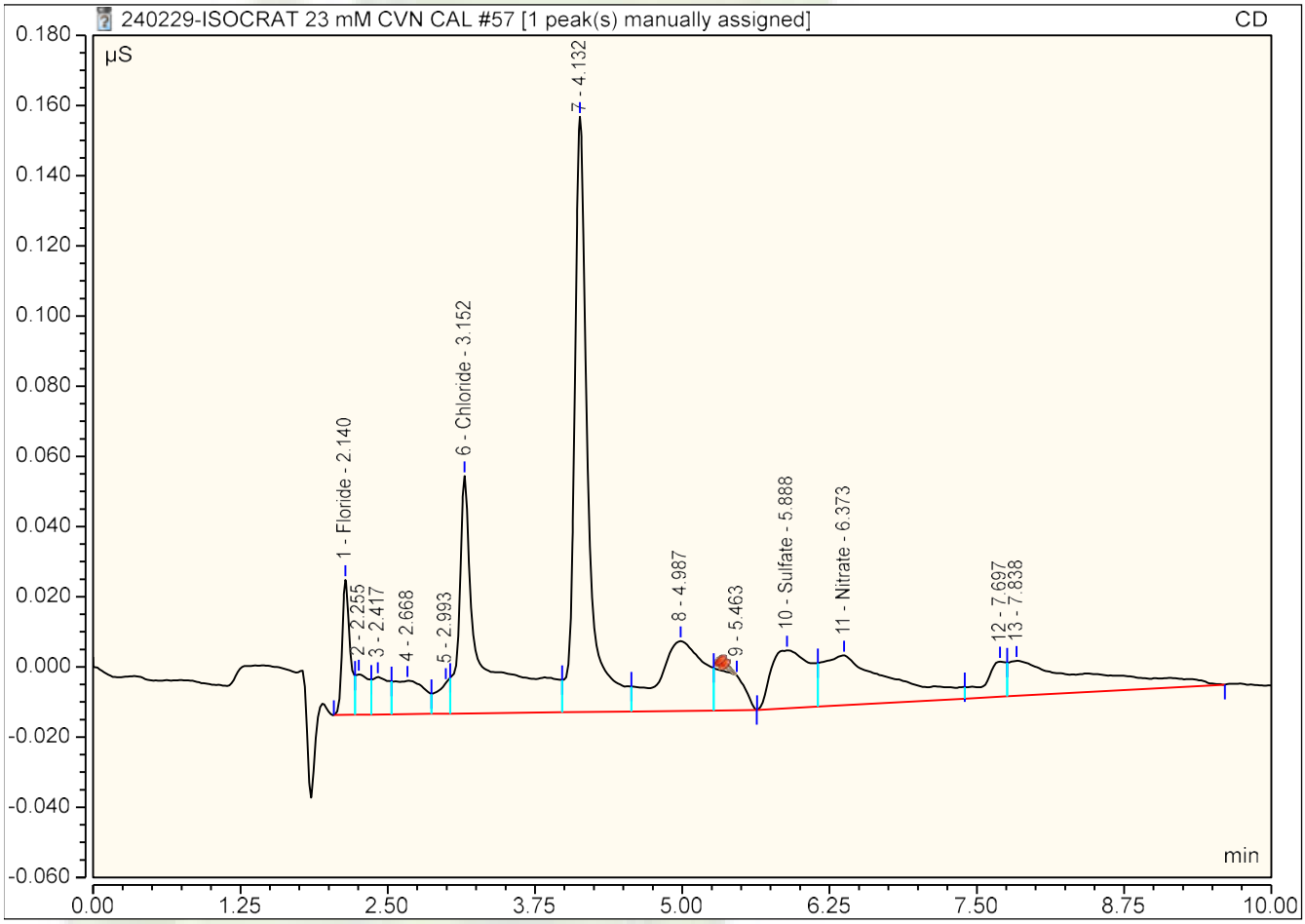
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
1	2.16	**Floride**	BM	0.002	0.026	0.0030
5	3.16	**Chloride**	M	0.025	0.096	0.0555
8	5.97	**Sulfate**	M *	0.011	0.032	0.1768
9	6.38	**Nitrate**	M *	0.012	0.022	0.0273
TOTAL:				0.05	0.18	0.26



Peak Integration Report

Sample Name:	**BLK-2**	*Inj. Vol.:*	**5000.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**IC 3 method 23 mM**	*Operator:*	**Wetchem25**
Inj. Date / Time:	**29-Feb-2024 / 22:51**	*Run Time:*	**10.00**

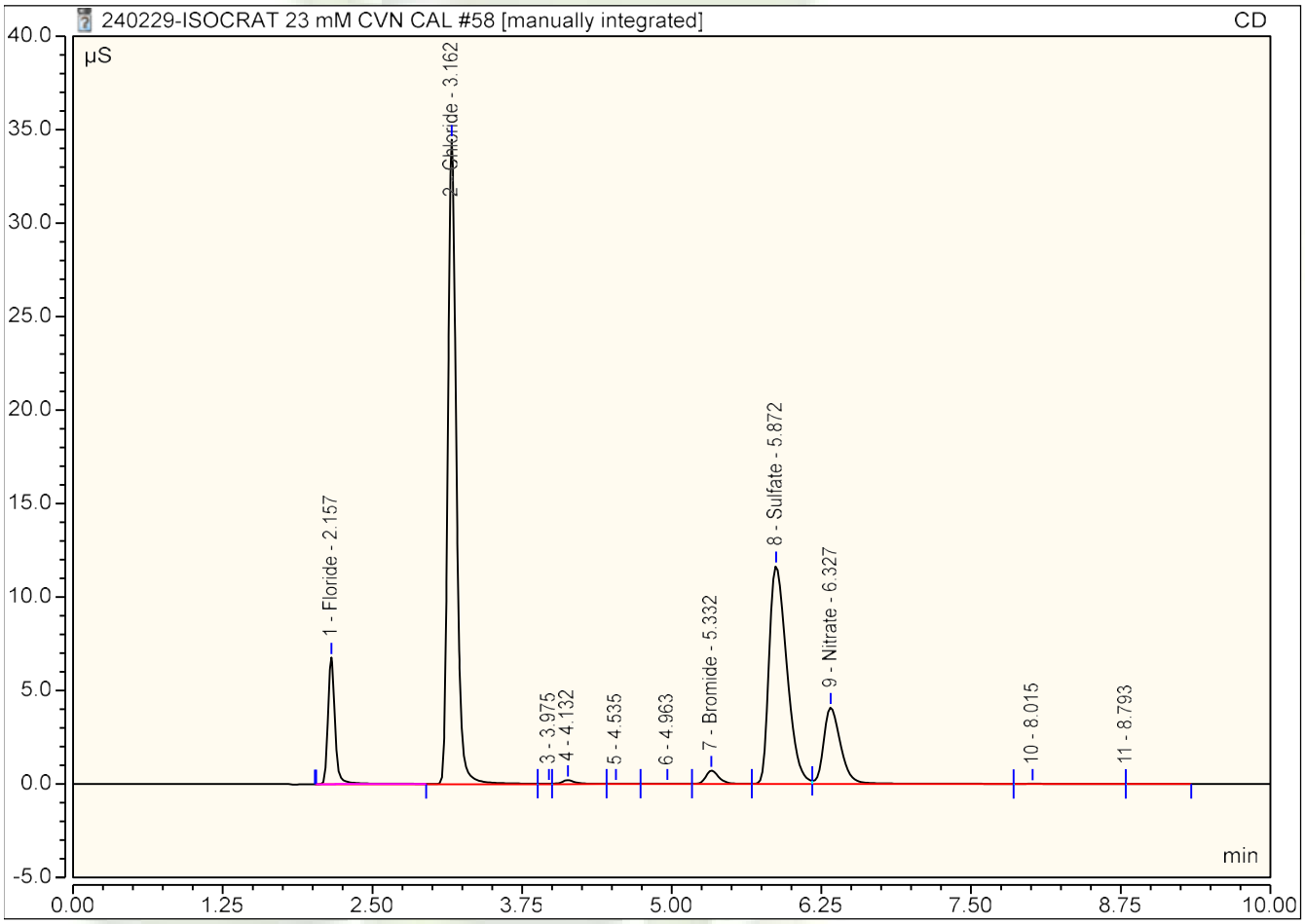
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
1	2.14	**Floride**	BM	0.003	0.038	0.0043
6	3.15	**Chloride**	M	0.015	0.068	0.0284
10	5.89	**Sulfate**	BM	0.006	0.017	0.1601
11	6.37	**Nitrate**	M	0.010	0.014	0.0253
TOTAL:				0.03	0.14	0.22



Peak Integration Report

Sample Name:	**LCS-2**	*Inj. Vol.:*	**5000.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**IC 3 method 23 mM**	*Operator:*	**Wetchem25**
Inj. Date / Time:	**29-Feb-2024 / 23:02**	*Run Time:*	**10.00**

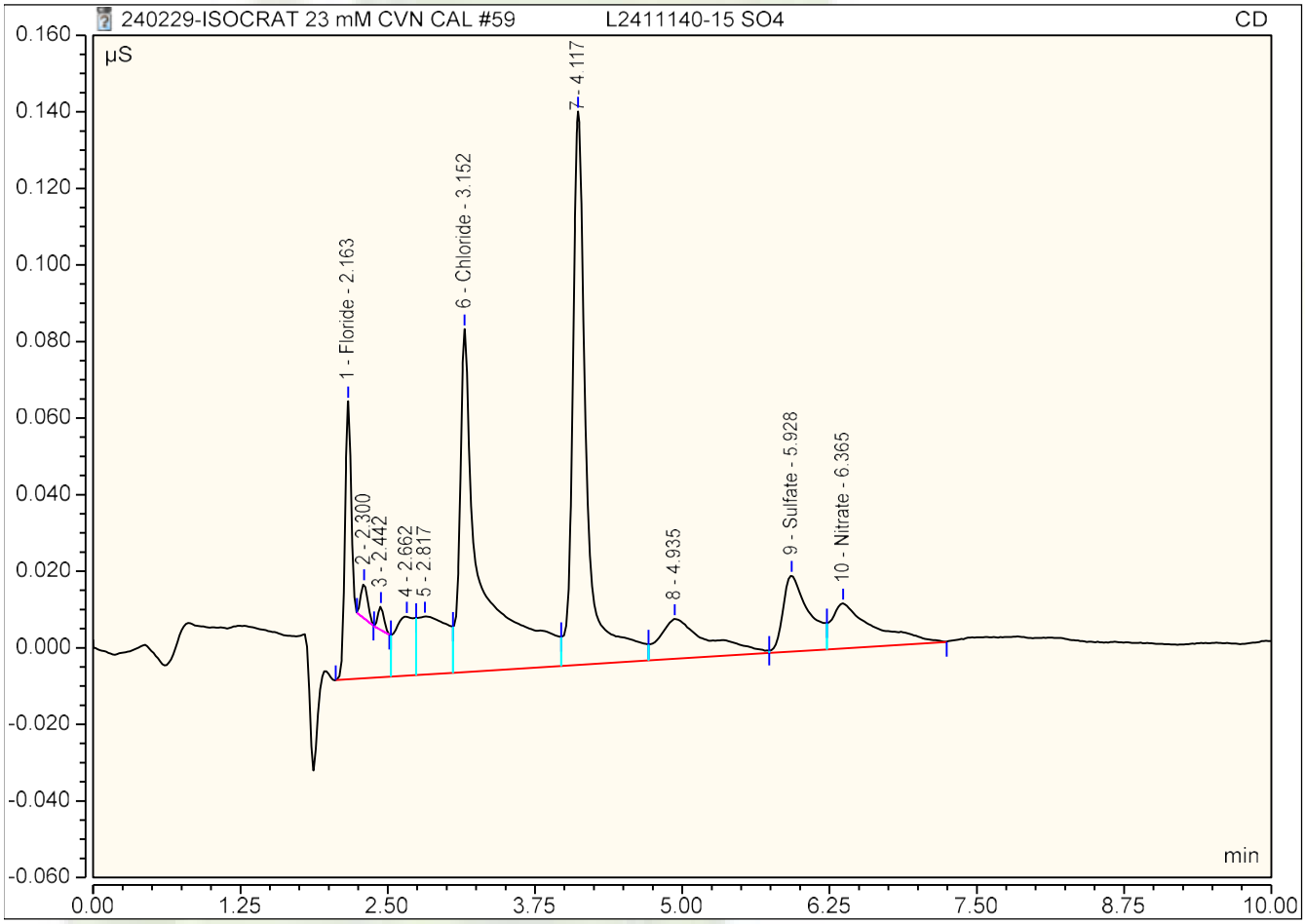
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
1	2.16	**Floride**	Ru	0.462	6.767	0.8381
2	3.16	**Chloride**	BM	2.848	34.467	7.9733
7	5.33	**Bromide**	M	0.097	0.725	0.8032
8	5.87	**Sulfate**	M *	2.018	11.660	7.9815
9	6.33	**Nitrate**	M *	0.692	4.086	0.7786
TOTAL:				6.12	57.71	18.37



Peak Integration Report

Sample Name:	**L2411140-15 SO4**	*Inj. Vol.:*	**5000.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**IC 3 method 23 mM**	*Operator:*	**Wetchem25**
Inj. Date / Time:	**29-Feb-2024 / 23:13**	*Run Time:*	**10.00**

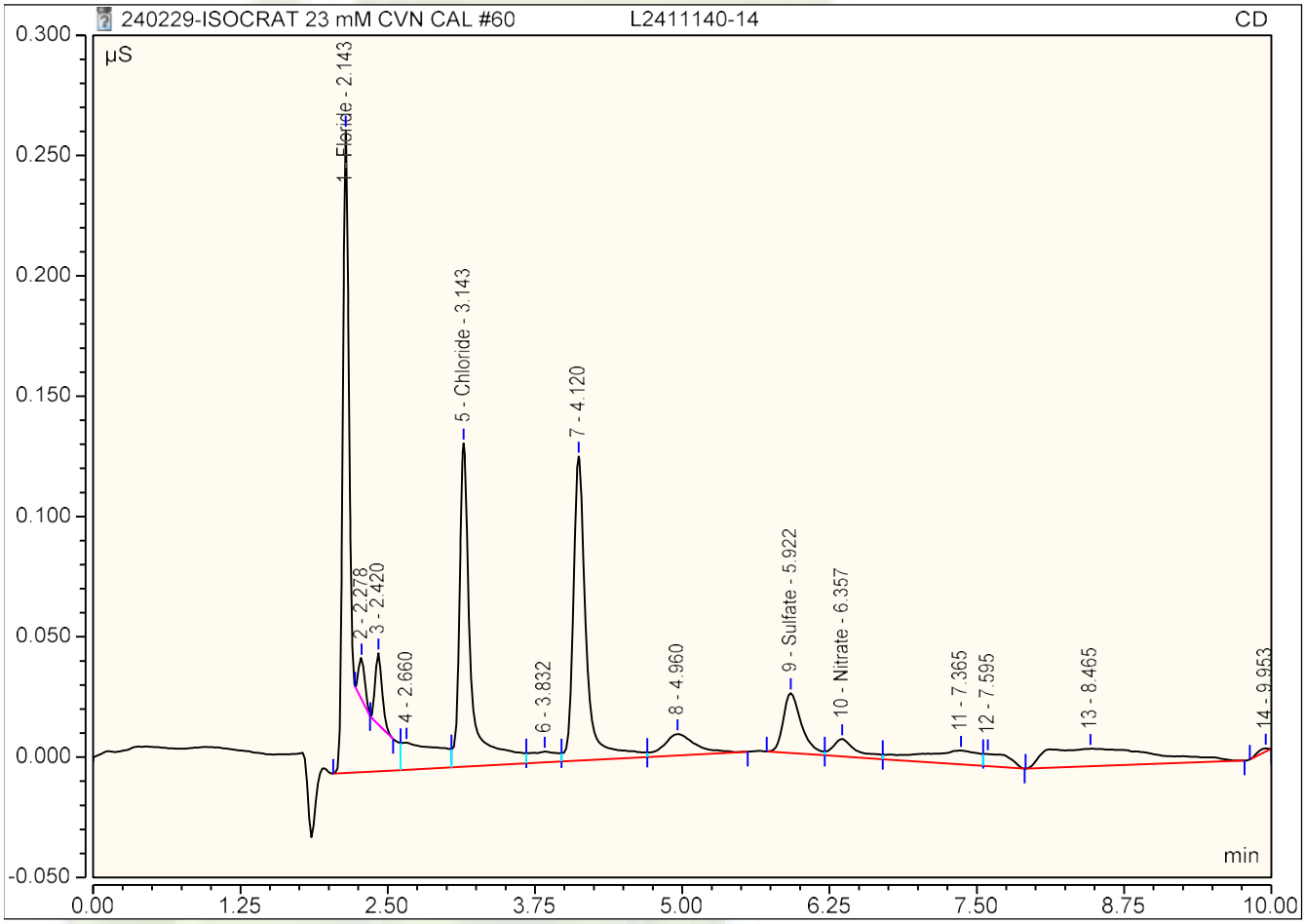
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
1	2.16	**Floride**	BM	0.009	0.073	0.0156
6	3.15	**Chloride**	M	0.019	0.090	0.0384
9	5.93	**Sulfate**	M	0.005	0.020	0.1555
10	6.37	**Nitrate**	MB	0.005	0.012	0.0199
TOTAL:				0.04	0.19	0.23



Peak Integration Report

Sample Name:	**L2411140-14**	*Inj. Vol.:*	**5000.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**IC 3 method 23 mM**	*Operator:*	**Wetchem25**
Inj. Date / Time:	**29-Feb-2024 / 23:24**	*Run Time:*	**10.00**

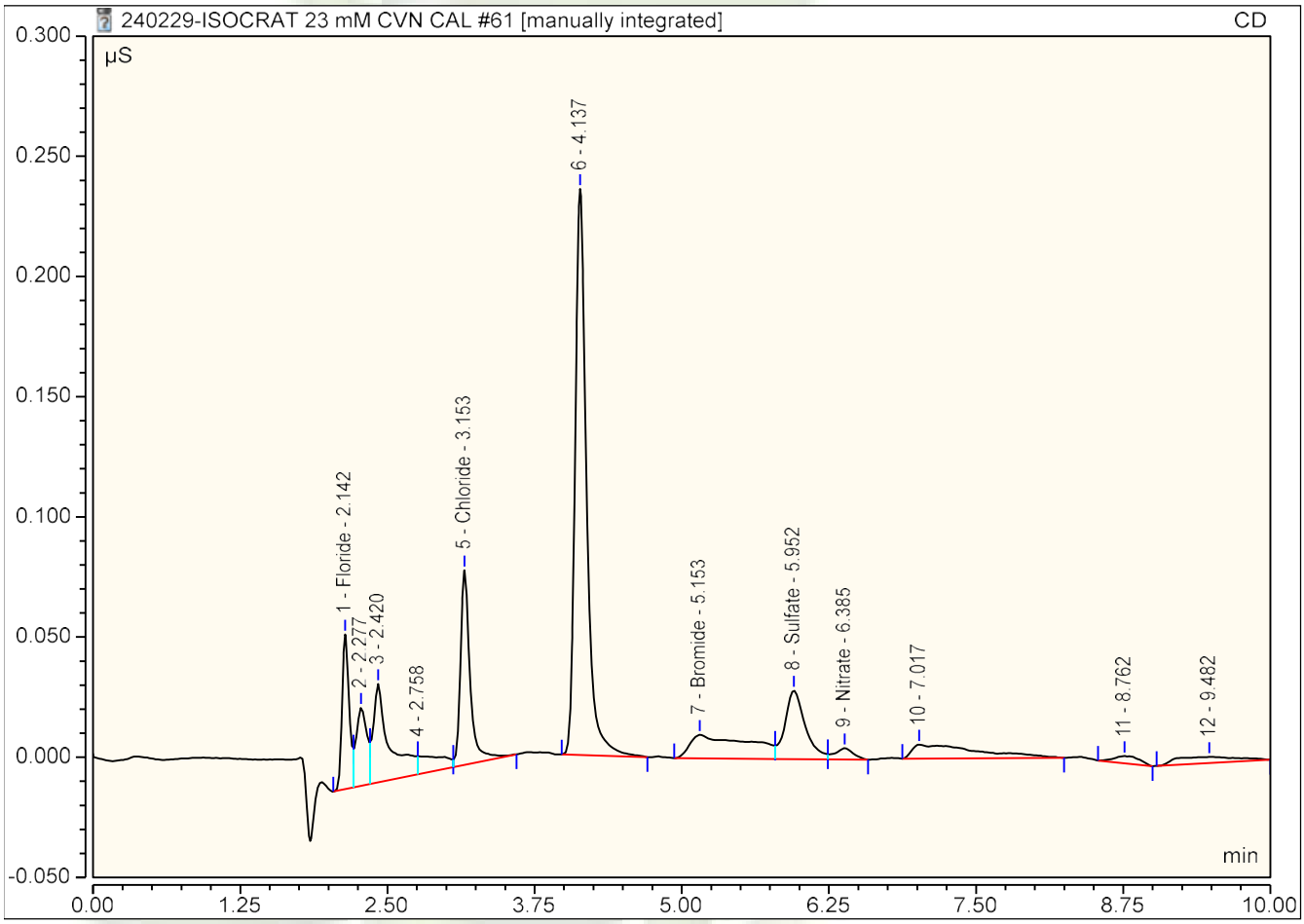
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
1	2.14	**Floride**	BM	0.025	0.267	0.0452
5	3.14	**Chloride**	M	0.015	0.134	0.0279
9	5.92	**Sulfate**	BM	0.004	0.025	0.1532
10	6.36	**Nitrate**	M	0.002	0.007	0.0164
TOTAL:				0.05	0.43	0.24



Peak Integration Report

Sample Name:	**L2411140-13**	*Inj. Vol.:*	**5000.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**IC 3 method 23 mM**	*Operator:*	**Wetchem25**
Inj. Date / Time:	**29-Feb-2024 / 23:35**	*Run Time:*	**10.00**

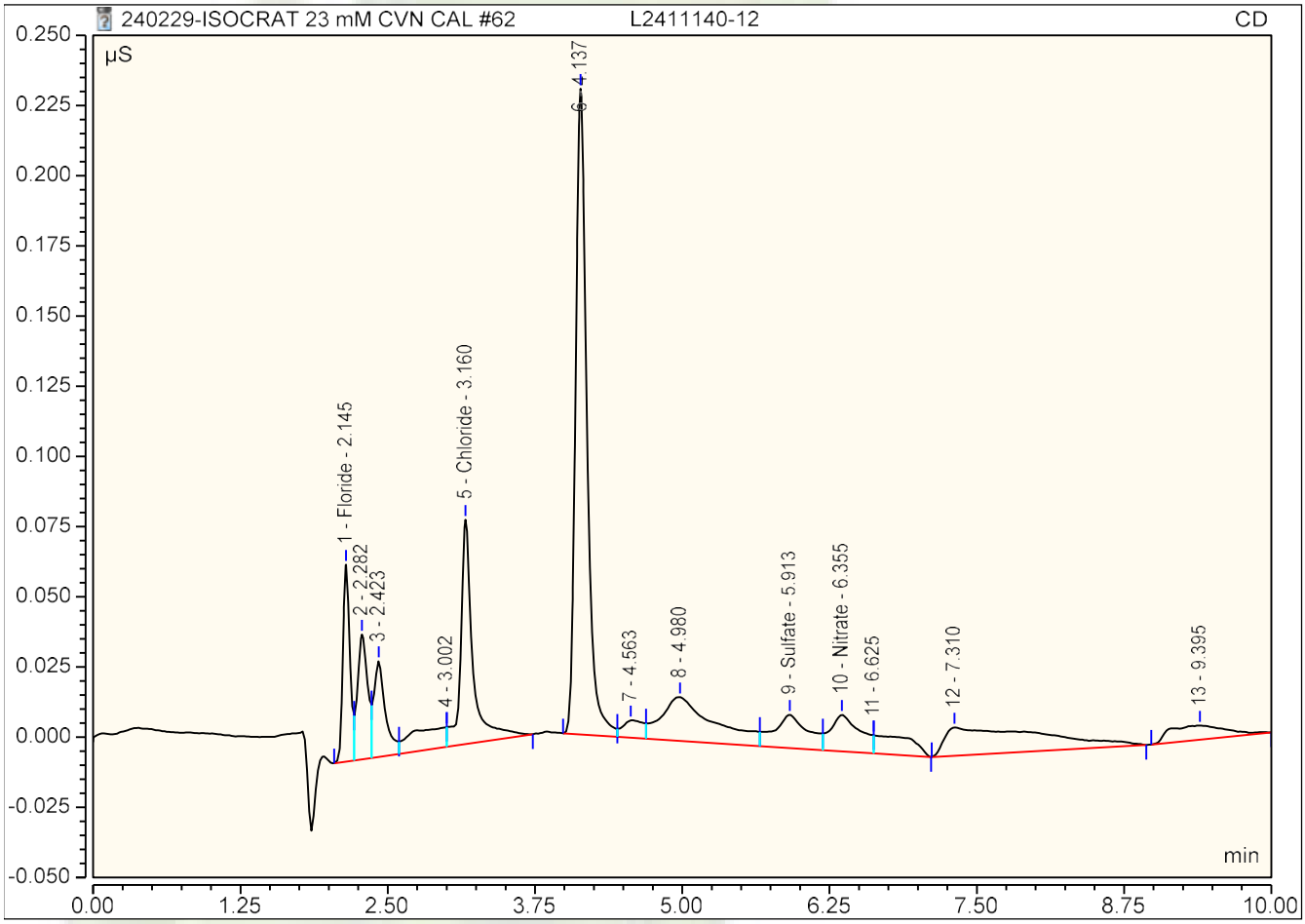
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
1	2.14	**Floride**	BM	0.004	0.064	0.0071
5	3.15	**Chloride**	MB	0.008	0.081	0.0075
7	5.15	**Bromide**	BM	0.006	0.010	0.0574
8	5.95	**Sulfate**	M *	0.006	0.029	0.1579
9	6.39	**Nitrate**	MB*	0.001	0.005	0.0155
TOTAL:				0.02	0.19	0.25



Peak Integration Report

Sample Name:	**L2411140-12**	*Inj. Vol.:*	**5000.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**IC 3 method 23 mM**	*Operator:*	**Wetchem25**
Inj. Date / Time:	**29-Feb-2024 / 23:46**	*Run Time:*	**10.00**

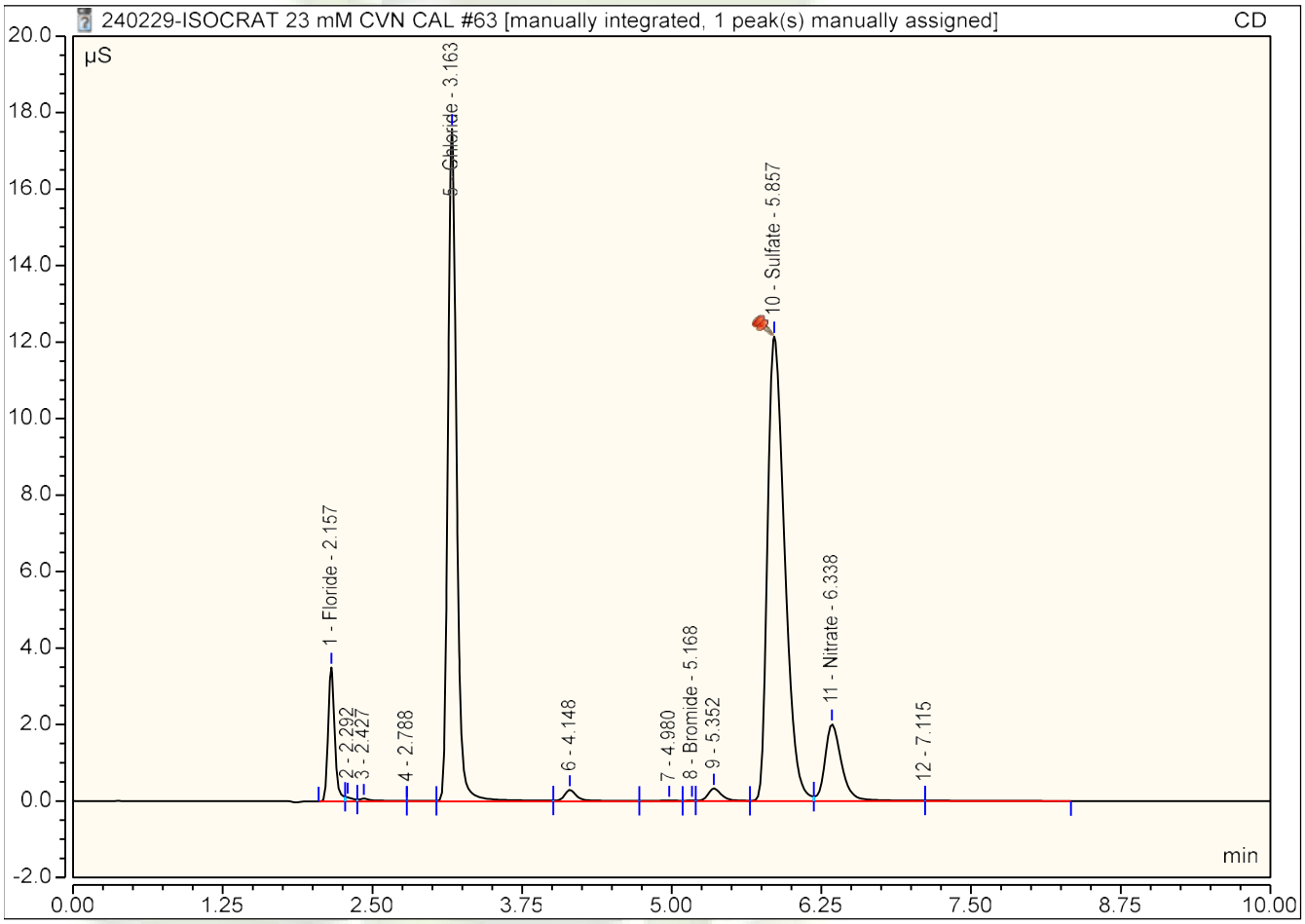
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
1	2.15	**Floride**	BM	0.005	0.070	0.0077
5	3.16	**Chloride**	MB	0.010	0.080	0.0125
9	5.91	**Sulfate**	M	0.004	0.012	0.1512
10	6.36	**Nitrate**	M	0.004	0.013	0.0188
TOTAL:				0.02	0.18	0.19



Peak Integration Report

Sample Name:	**L2411140-11 MS**	*Inj. Vol.:*	**5000.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**IC 3 method 23 mM**	*Operator:*	**Wetchem25**
Inj. Date / Time:	**29-Feb-2024 / 23:57**	*Run Time:*	**10.00**

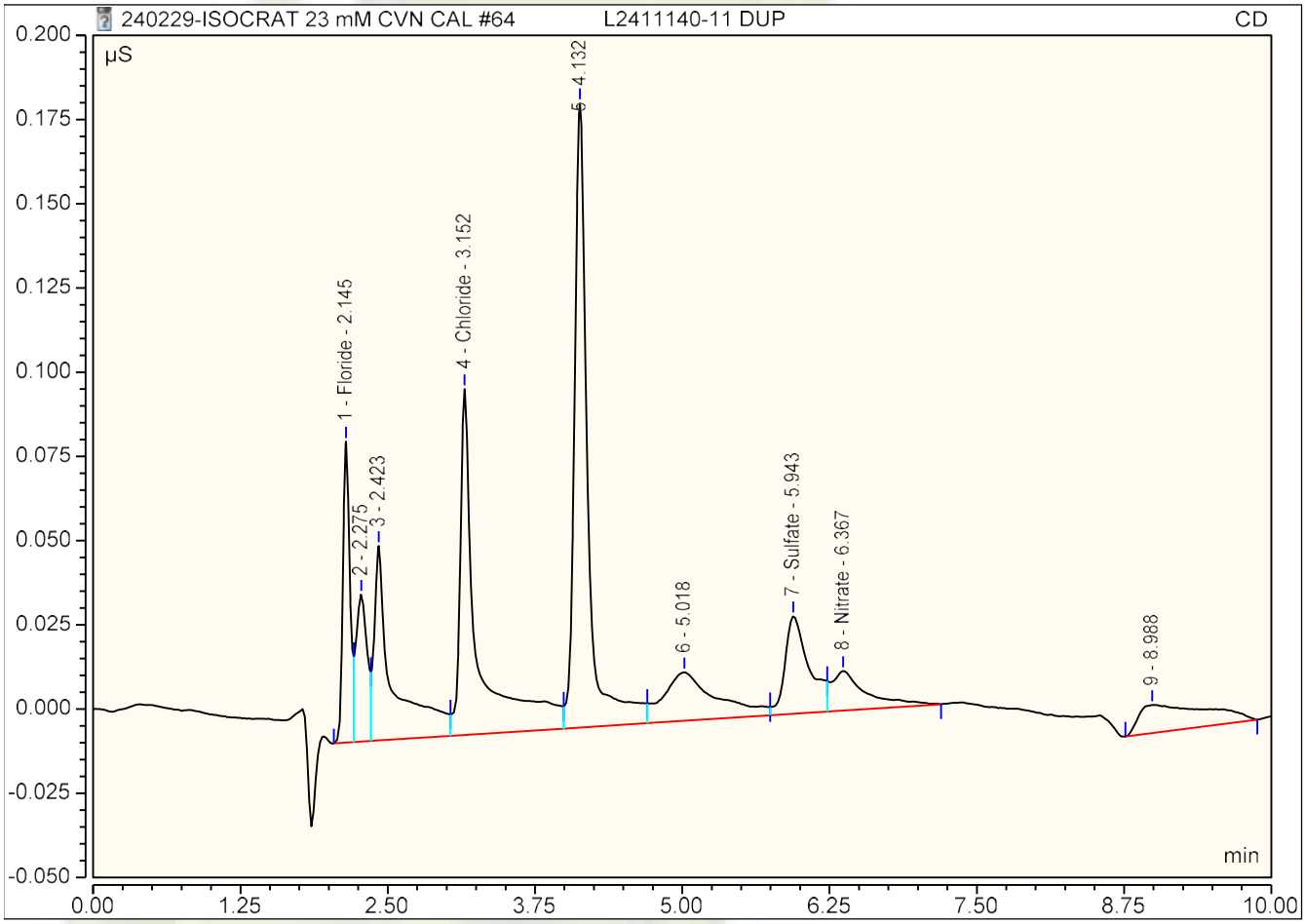
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
1	2.16	**Floride**	BM	0.223	3.508	0.4042
5	3.16	**Chloride**	M	1.486	17.589	4.1527
8	5.17	**Bromide**	M	0.002	0.020	0.0268
10	5.86	**Sulfate**	M *^	2.028	12.154	8.0188
11	6.34	**Nitrate**	M *	0.331	2.013	0.3798
TOTAL:				4.07	35.28	12.98



Peak Integration Report

Sample Name:	**L2411140-11 DUP**	*Inj. Vol.:*	**5000.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**IC 3 method 23 mM**	*Operator:*	**Wetchem25**
Inj. Date / Time:	**01-Mar-2024 / 00:08**	*Run Time:*	**10.00**

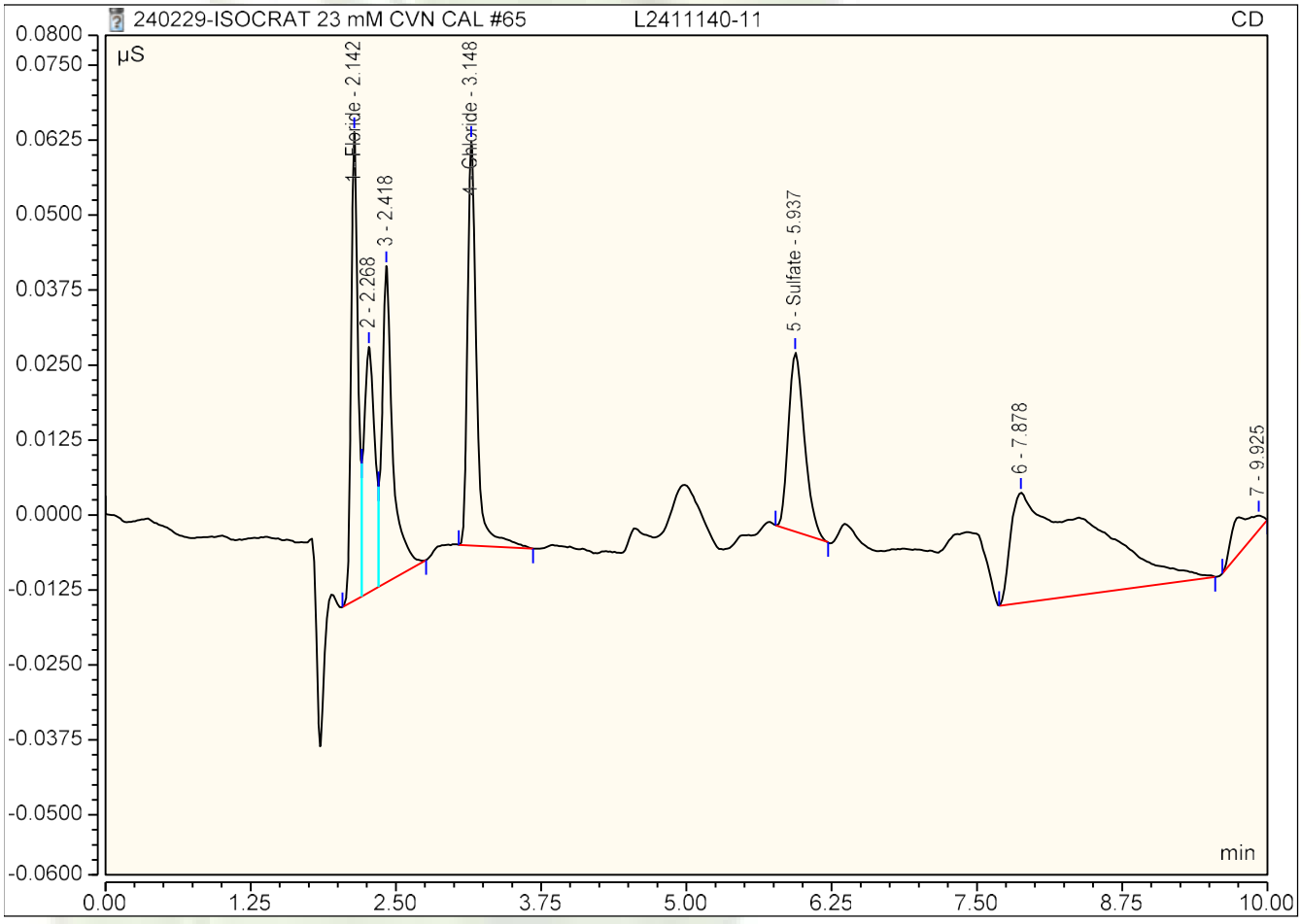
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
1	2.15	**Floride**	BM	0.006	0.089	0.0101
4	3.15	**Chloride**	M	0.018	0.103	0.0350
7	5.94	**Sulfate**	M	0.007	0.029	0.1624
8	6.37	**Nitrate**	MB	0.004	0.012	0.0191
TOTAL:				0.03	0.23	0.23



Peak Integration Report

Sample Name:	**L2411140-11**	*Inj. Vol.:*	**5000.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**IC 3 method 23 mM**	*Operator:*	**Wetchem25**
Inj. Date / Time:	**01-Mar-2024 / 00:19**	*Run Time:*	**10.00**

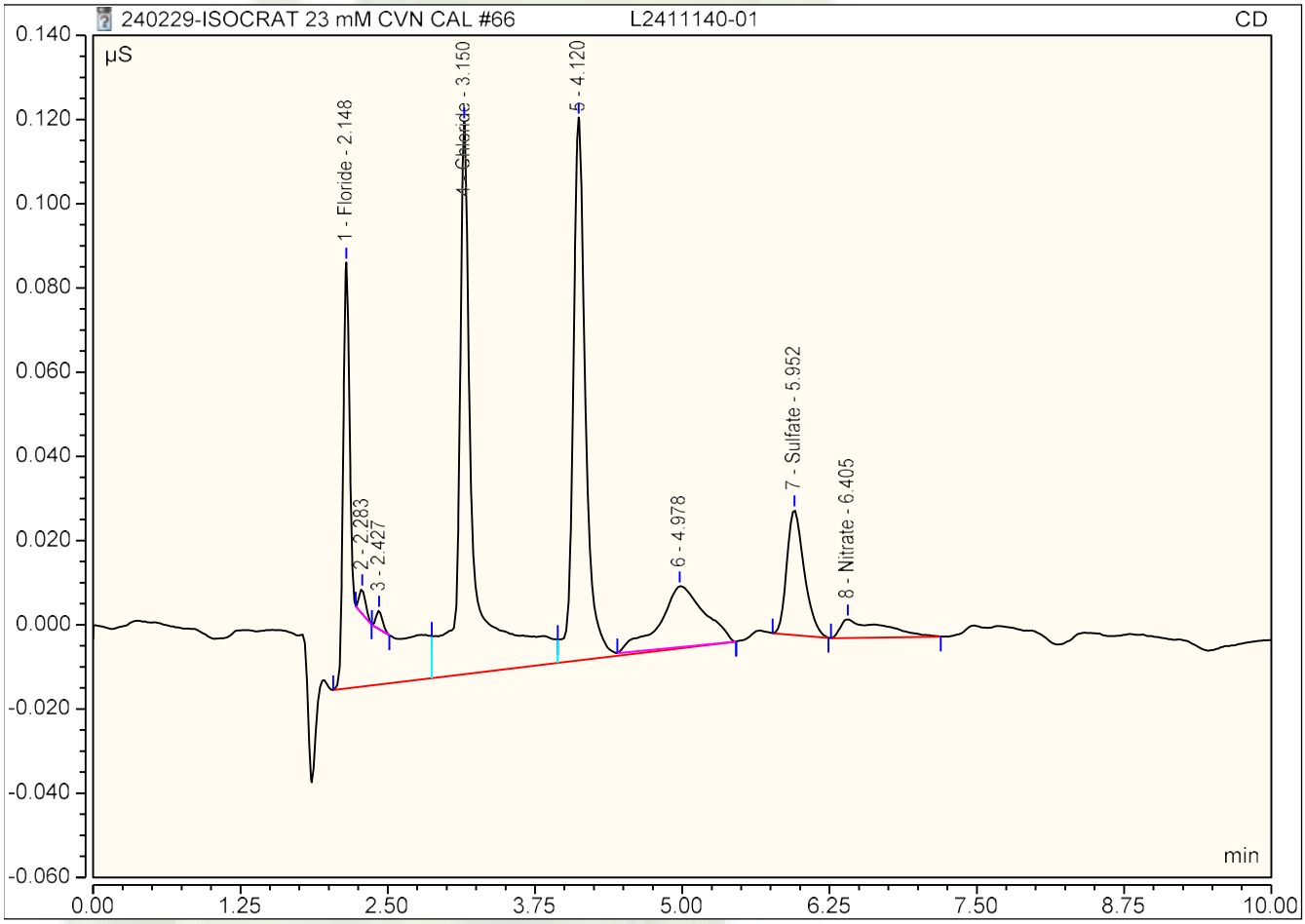
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
1	2.14	**Floride**	BM	0.005	0.078	0.0086
4	3.15	**Chloride**	BMB	0.006	0.068	0.0029
5	5.94	**Sulfate**	BMB	0.005	0.030	0.1545
TOTAL:				0.02	0.18	0.17



Peak Integration Report

Sample Name:	**L2411140-01**	*Inj. Vol.:*	**5000.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**IC 3 method 23 mM**	*Operator:*	**Wetchem25**
Inj. Date / Time:	**01-Mar-2024 / 00:30**	*Run Time:*	**10.00**

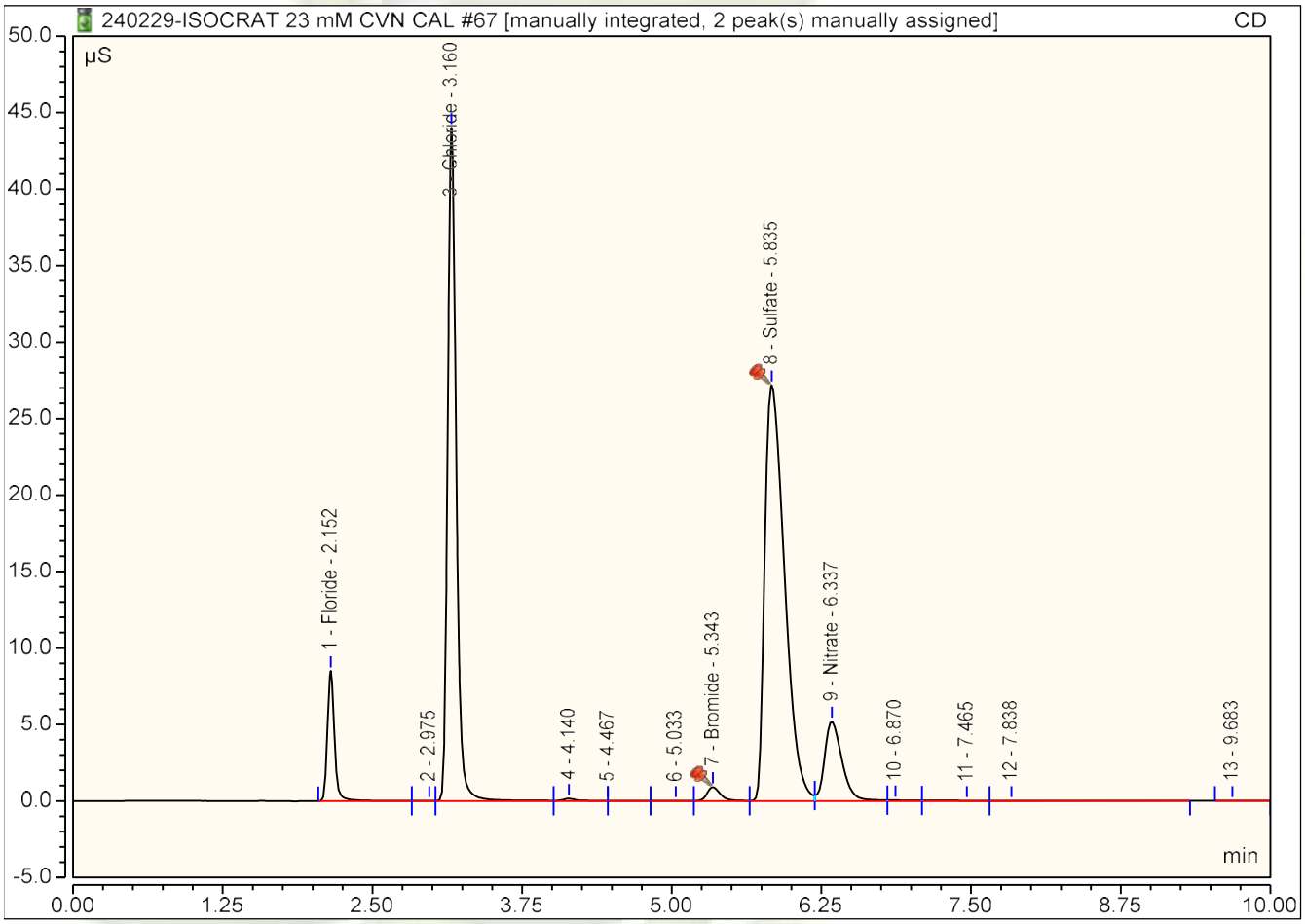
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
1	2.15	**Floride**	BM	0.015	0.101	0.0263
4	3.15	**Chloride**	M	0.020	0.131	0.0411
7	5.95	**Sulfate**	BMB	0.005	0.030	0.1555
8	6.41	**Nitrate**	BMB	0.002	0.004	0.0166
TOTAL:				0.04	0.27	0.24



Peak Integration Report

Sample Name:	**CCV**	*Inj. Vol.:*	**5000.00**
Injection Type:	**Check Standard**	*Dilution Factor:*	**1.0000**
Instrument Method:	**IC 3 method 23 mM**	*Operator:*	**Wetchem25**
Inj. Date / Time:	**01-Mar-2024 / 00:40**	*Run Time:*	**10.00**

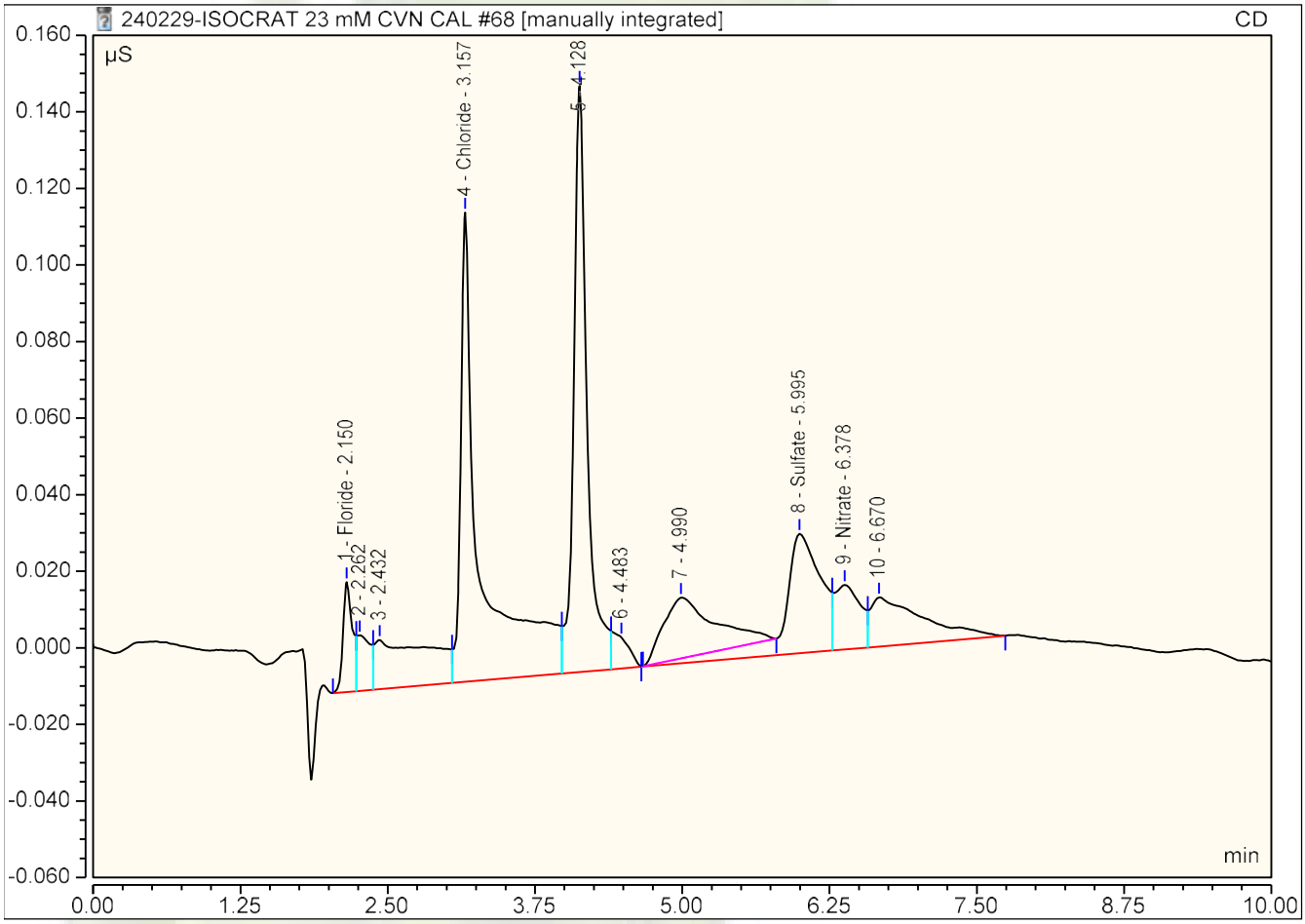
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
1	2.15	**Floride**	BM	0.592	8.506	1.0732
3	3.16	**Chloride**	M	3.679	44.015	10.3062
7	5.34	**Bromide**	M ^	0.122	0.924	1.0013
8	5.84	**Sulfate**	M *^	5.243	27.182	20.5169
9	6.34	**Nitrate**	M *	0.882	5.204	0.9876
TOTAL:				10.52	85.83	33.89



Peak Integration Report

Sample Name:	**CCB**	*Inj. Vol.:*	**5000.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**IC 3 method 23 mM**	*Operator:*	**Wetchem25**
Inj. Date / Time:	**01-Mar-2024 / 00:51**	*Run Time:*	**10.00**

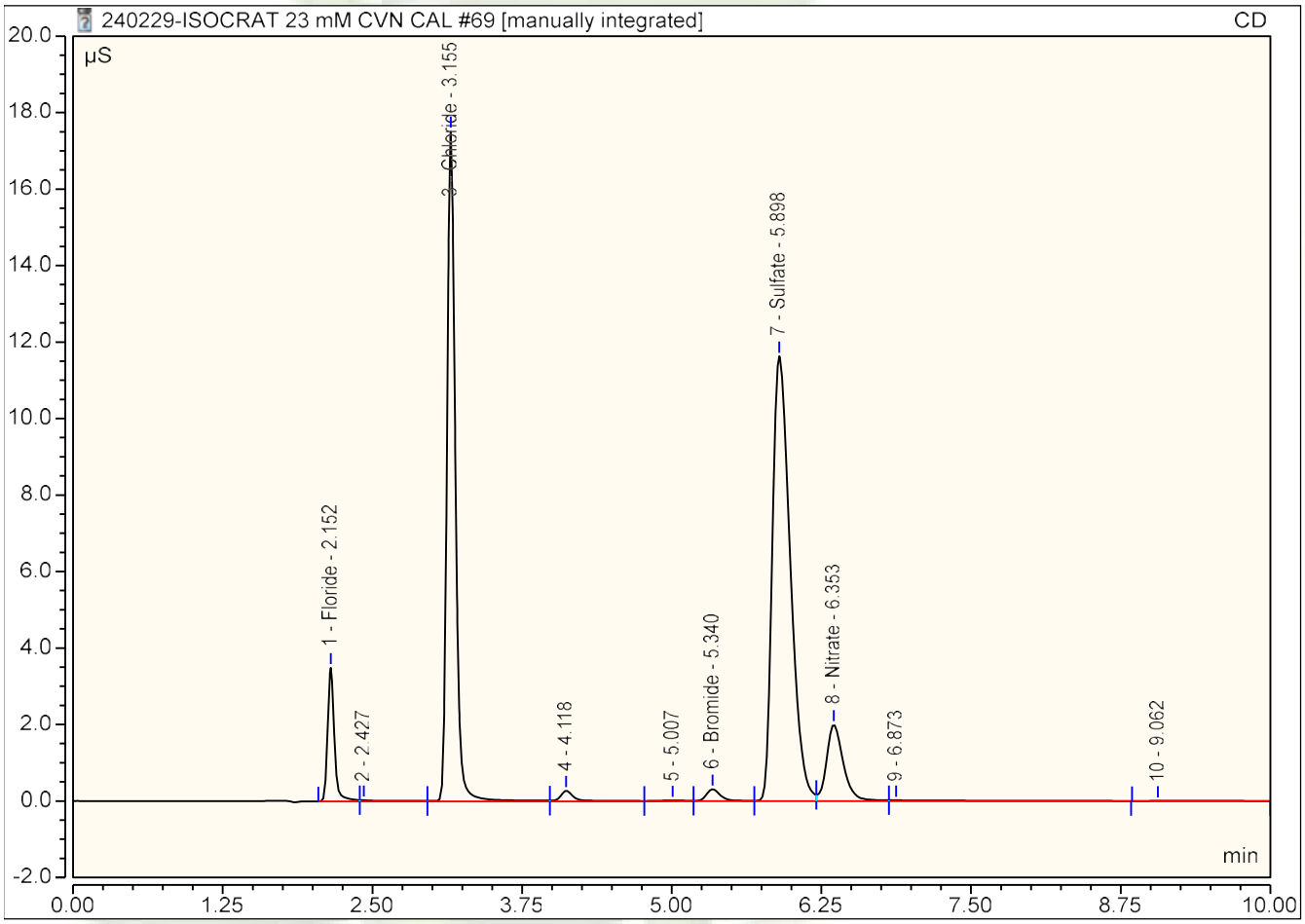
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
1	2.15	**Floride**	BM	0.003	0.029	0.0038
4	3.16	**Chloride**	M	0.024	0.123	0.0525
8	6.00	**Sulfate**	M *	0.012	0.031	0.1827
9	6.38	**Nitrate**	M *	0.004	0.017	0.0193
TOTAL:				0.04	0.20	0.26



Peak Integration Report

Sample Name:	**L2411140-10 MS**	*Inj. Vol.:*	**5000.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**IC 3 method 23 mM**	*Operator:*	**Wetchem25**
Inj. Date / Time:	**01-Mar-2024 / 01:02**	*Run Time:*	**10.00**

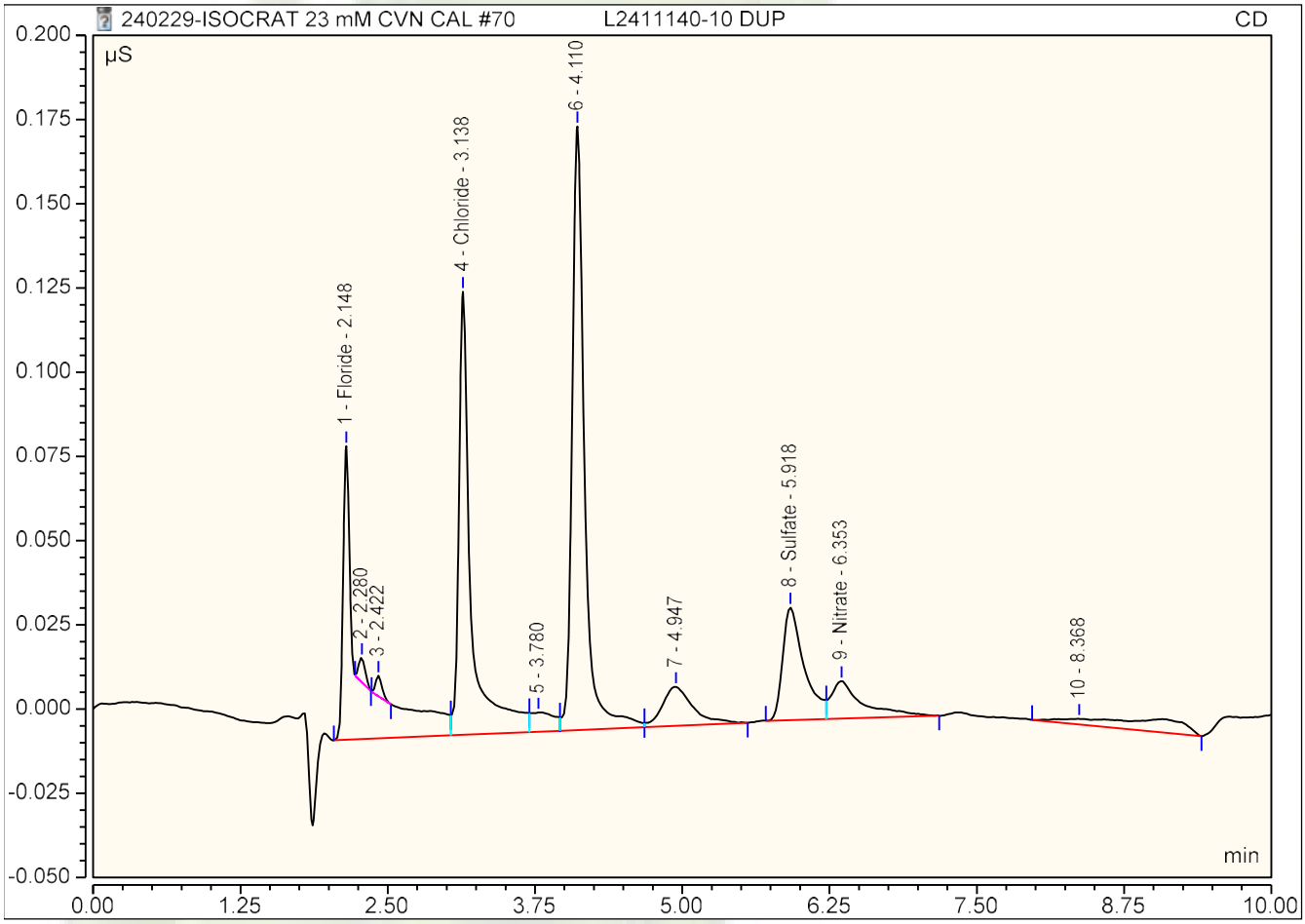
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
1	2.15	**Floride**	BM	0.229	3.493	0.4140
3	3.16	**Chloride**	M	1.427	17.522	3.9895
6	5.34	**Bromide**	M	0.046	0.316	0.3843
7	5.90	**Sulfate**	M *	2.028	11.635	8.0197
8	6.35	**Nitrate**	M *	0.328	1.999	0.3768
TOTAL:				4.06	34.97	13.18



Peak Integration Report

Sample Name:	**L2411140-10 DUP**	*Inj. Vol.:*	**5000.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**IC 3 method 23 mM**	*Operator:*	**Wetchem25**
Inj. Date / Time:	**01-Mar-2024 / 01:13**	*Run Time:*	**10.00**

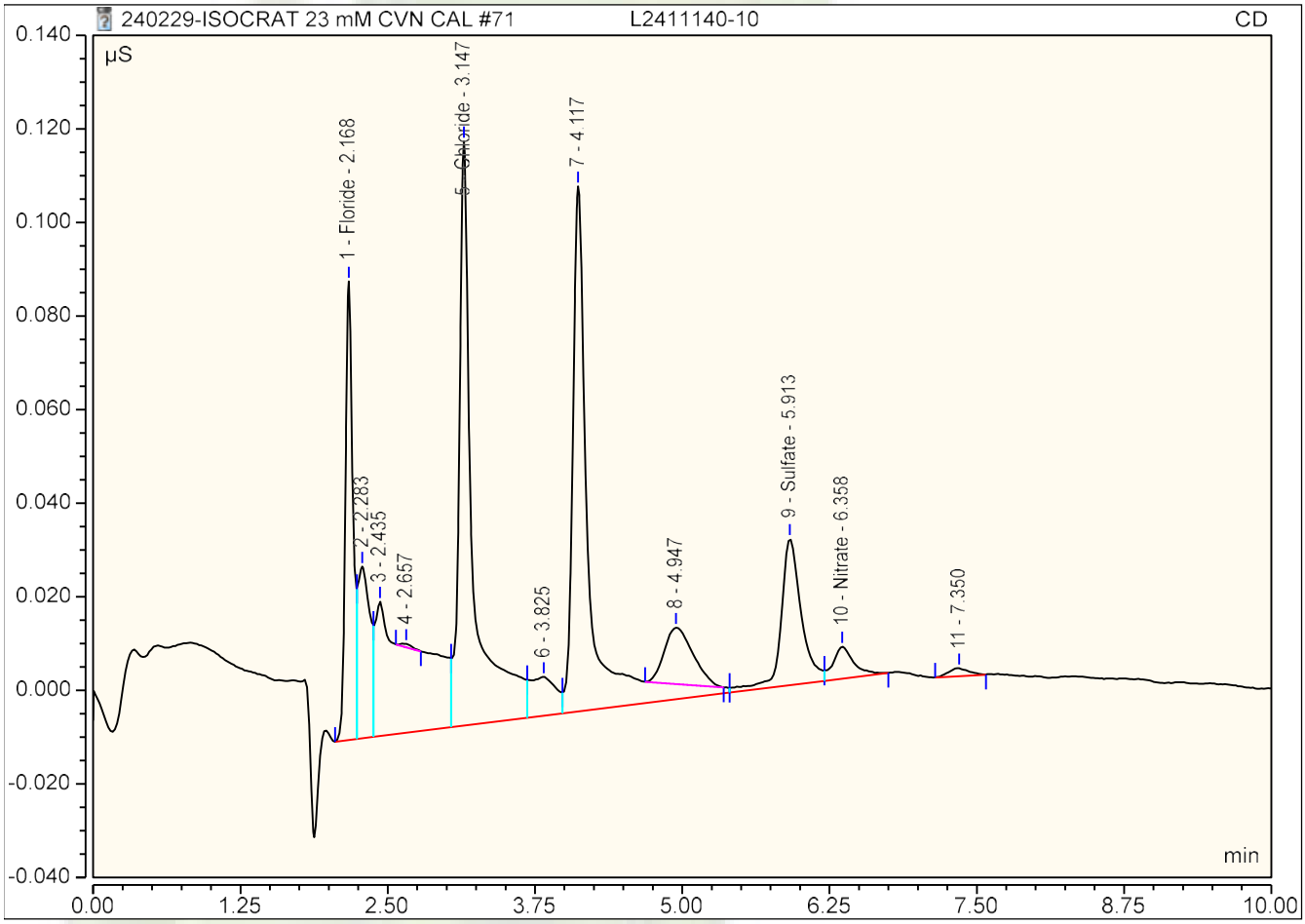
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
1	2.15	**Floride**	BM	0.014	0.087	0.0249
4	3.14	**Chloride**	M	0.016	0.132	0.0302
8	5.92	**Sulfate**	BM	0.007	0.033	0.1632
9	6.35	**Nitrate**	MB	0.003	0.011	0.0184
TOTAL:				0.04	0.26	0.24



Peak Integration Report

Sample Name:	**L2411140-10**	*Inj. Vol.:*	**5000.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**IC 3 method 23 mM**	*Operator:*	**Wetchem25**
Inj. Date / Time:	**01-Mar-2024 / 01:24**	*Run Time:*	**10.00**

No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
1	2.17	**Floride**	BM	0.007	0.098	0.0120
5	3.15	**Chloride**	M	0.017	0.125	0.0340
9	5.91	**Sulfate**	M	0.006	0.031	0.1601
10	6.36	**Nitrate**	MB	0.001	0.007	0.0161
TOTAL:				0.03	0.26	0.22



Peak Integration Report

Sample Name:	**L2411140-09**	*Inj. Vol.:*	**5000.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**IC 3 method 23 mM**	*Operator:*	**Wetchem25**
Inj. Date / Time:	**01-Mar-2024 / 01:35**	*Run Time:*	**n.a.**

No.	Time min	Peak Name	Peak Type	Area n.a.	Height n.a.	Amount n.a.
		TOTAL:		0.00	0.00	0.00

Channel CD is not available for injection #72 - L2411140-09

Peak Integration Report

Sample Name:	**L2411140-08**	*Inj. Vol.:*	**5000.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**IC 3 method 23 mM**	*Operator:*	**Wetchem25**
Inj. Date / Time:	**n.a. n.a.**	*Run Time:*	**n.a.**

No.	Time min	Peak Name	Peak Type	Area n.a.	Height n.a.	Amount n.a.
		TOTAL:		0.00	0.00	0.00

Channel CD is not available for injection #73 - L2411140-08.

Peak Integration Report

Sample Name:	**L2411140-07**	*Inj. Vol.:*	**5000.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**IC 3 method 23 mM**	*Operator:*	**Wetchem25**
Inj. Date / Time:	**n.a. n.a.**	*Run Time:*	**n.a.**

No.	Time min	Peak Name	Peak Type	Area n.a.	Height n.a.	Amount n.a.
		TOTAL:		0.00	0.00	0.00

Channel CD is not available for injection #74 - L2411140-07.

Peak Integration Report

Sample Name:	**L2411140-06**	*Inj. Vol.:*	**5000.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**IC 3 method 23 mM**	*Operator:*	**Wetchem25**
Inj. Date / Time:	**n.a. n.a.**	*Run Time:*	**n.a.**

No.	Time min	Peak Name	Peak Type	Area n.a.	Height n.a.	Amount n.a.
		TOTAL:		0.00	0.00	0.00

Channel CD is not available for injection #75 - L2411140-06

Peak Integration Report

Sample Name:	**L2411140-05**	*Inj. Vol.:*	**5000.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**IC 3 method 23 mM**	*Operator:*	**Wetchem25**
Inj. Date / Time:	**n.a. n.a.**	*Run Time:*	**n.a.**

No.	Time min	Peak Name	Peak Type	Area n.a.	Height n.a.	Amount n.a.
		TOTAL:		0.00	0.00	0.00

Channel CD is not available for injection #76 - L2411140-05

Peak Integration Report

Sample Name:	**L2411140-04**	*Inj. Vol.:*	**5000.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**IC 3 method 23 mM**	*Operator:*	**Wetchem25**
Inj. Date / Time:	**n.a. n.a.**	*Run Time:*	**n.a.**

No.	Time min	Peak Name	Peak Type	Area n.a.	Height n.a.	Amount n.a.
		TOTAL:		0.00	0.00	0.00

Channel CD is not available for injection #77 - L2411140-04

Peak Integration Report

Sample Name:	**L2411140-03**	*Inj. Vol.:*	**5000.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**IC 3 method 23 mM**	*Operator:*	**Wetchem25**
Inj. Date / Time:	**n.a. n.a.**	*Run Time:*	**n.a.**

No.	Time min	Peak Name	Peak Type	Area n.a.	Height n.a.	Amount n.a.
		TOTAL:		0.00	0.00	0.00

Channel CD is not available for injection #78 - L2411140-03

Peak Integration Report

Sample Name:	**CCV**	*Inj. Vol.:*	**5000.00**
Injection Type:	**Check Standard**	*Dilution Factor:*	**1.0000**
Instrument Method:	**IC 3 method 23 mM**	*Operator:*	**Wetchem25**
Inj. Date / Time:	**n.a. n.a.**	*Run Time:*	**n.a.**

No.	Time min	Peak Name	Peak Type	Area n.a.	Height n.a.	Amount n.a.
		TOTAL:		0.00	0.00	0.00

Channel CD is not available for injection #79 - CCV

Peak Integration Report

Sample Name:	**CCB**	*Inj. Vol.:*	**5000.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**IC 3 method 23 mM**	*Operator:*	**Wetchem25**
Inj. Date / Time:	**n.a. n.a.**	*Run Time:*	**n.a.**

No.	Time min	Peak Name	Peak Type	Area n.a.	Height n.a.	Amount n.a.
		TOTAL:		0.00	0.00	0.00

Channel CD is not available for injection #80 - CCB

Peak Integration Report

Sample Name:	**L2411140-02**	*Inj. Vol.:*	**5000.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**IC 3 method 23 mM**	*Operator:*	**Wetchem25**
Inj. Date / Time:	**n.a. n.a.**	*Run Time:*	**n.a.**

No.	Time min	Peak Name	Peak Type	Area n.a.	Height n.a.	Amount n.a.
		TOTAL:		0.00	0.00	0.00

Channel CD is not available for injection #81 - L2411140-02

Peak Integration Report

Sample Name:	**CCV**	*Inj. Vol.:*	**5000.00**
Injection Type:	**Check Standard**	*Dilution Factor:*	**1.0000**
Instrument Method:	**IC 3 method 23 mM**	*Operator:*	**Wetchem25**
Inj. Date / Time:	**n.a. n.a.**	*Run Time:*	**n.a.**

No.	Time min	Peak Name	Peak Type	Area n.a.	Height n.a.	Amount n.a.
		TOTAL:		0.00	0.00	0.00

Channel CD is not available for injection #82 - CCV

Peak Integration Report

Sample Name:	**CCB**	*Inj. Vol.:*	**5000.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**IC 3 method 23 mM**	*Operator:*	**Wetchem25**
Inj. Date / Time:	**n.a. n.a.**	*Run Time:*	**n.a.**

No.	Time min	Peak Name	Peak Type	Area n.a.	Height n.a.	Amount n.a.
		TOTAL:		0.00	0.00	0.00

Channel CD is not available for injection #83 - CCB

Anion Summary Report

No.	Name	Dilution	Amount CD Floride	Amount CD Chloride	Amount CD Nitrate	Amount CD Sulfate	Amount CD Bromide	Inject Time	Comment
1	BLK	1.0	0.0024	0.0784	0.0168	0.1428	n.a.	29/Feb/2024 12:25	CVN
2	STD 0.5	1.0	0.0184	0.2840	0.0335	0.5468	0.0452	29/Feb/2024 12:36	LOT#240207-0.5
3	STD 1.0	1.0	0.0391	0.5567	0.0650	1.0288	0.0739	29/Feb/2024 12:47	LOT#240207-1.0
4	STD 2.0	1.0	0.1946	2.0264	0.1809	3.9909	0.1735	29/Feb/2024 12:58	LOT#240207-2.0
5	STD 3.0	1.0	0.5092	4.9750	0.4734	10.0330	0.4597	29/Feb/2024 13:09	LOT#240207-3.0
6	STD 4.0	1.0	2.0255	19.8690	2.0073	39.6138	2.0119	29/Feb/2024 13:19	LOT#240207-4.0
7	STD 5.0	1.0	4.9892	50.0531	5.0003	100.1510	5.2799	29/Feb/2024 13:30	LOT#240207-5.0
8	RINSE	1.0	0.0031	0.1665	0.0543	0.1505	0.0385	29/Feb/2024 13:41	WG189797-907-909-912
9	CCV	1.0	1.0310	9.9585	0.9959	20.0168	0.9585	29/Feb/2024 13:59	LOT#240227-C
10	CCB	1.0	0.0080	0.1239	0.0417	0.1884	n.a.	29/Feb/2024 14:09	CVN
11	ICV	1.0	0.8360	7.9823	0.7685	7.9863	0.7826	29/Feb/2024 14:20	LOT#240227-I
12	ICB	1.0	0.0008	0.0684	0.0246	0.1780	0.0329	29/Feb/2024 14:31	CVN
13	BLK	1.0	0.0010	0.0367	0.0191	0.1612	n.a.	29/Feb/2024 14:42	CVN
14	LCS	1.0	0.8207	7.8829	0.7634	7.9061	0.7604	29/Feb/2024 14:53	LOT#240227-I
15	L2410849-03 BR CL SO4	1.0	0.1208	1.3823	n.a.	58.9048	0.0963	29/Feb/2024 15:04	CVN
16	L2410659-01 F	1.0	0.1290	22.9327	0.4638	191.4591	0.1288	29/Feb/2024 15:15	CVN
17	L2410659-02	1.0	0.0465	159.4806	3.8475	1664.5665	n.a.	29/Feb/2024 15:26	CVN
18	L2410659-03	1.0	0.0343	14.8334	0.8789	71.2028	0.0478	29/Feb/2024 15:37	CVN
19	L2410659-04	1.0	0.0566	23.0066	n.a.	760.3438	n.a.	29/Feb/2024 15:48	CVN
20	XL2410659-04; 500X	500.0	1.1949	19.5273	n.a.	1320.3406	n.a.	29/Feb/2024 15:59	CVN
21	CCV	1.0	1.0372	10.2335	1.0191	20.1388	0.9444	29/Feb/2024 16:10	LOT#240227-C
22	CCB	1.0	0.0010	0.0573	0.0184	0.1803	n.a.	29/Feb/2024 16:26	CVN
23	L2410877-01 MS	1.0	0.5353	33.7239	0.5037	23.5812	0.4758	29/Feb/2024 16:37	CVN
24	L2410877-01 DUP	1.0	0.1297	30.8072	0.1552	16.1944	0.1174	29/Feb/2024 16:48	CVN
25	L2410877-01	1.0	0.1295	30.7825	0.1468	16.0651	0.1039	29/Feb/2024 16:59	CVN
26	L2410579-01 CL F SO4 BR	1.0	0.1030	29.0248	n.a.	177.0534	0.1517	29/Feb/2024 17:10	CVN
27	XL2410579-02	1.0	0.0596	9.7576	1.8264	60.0398	0.1526	29/Feb/2024 17:21	CVN
28	L2410579-03	1.0	0.0622	13.9349	8.4222	116.6041	0.1286	29/Feb/2024 17:32	CVN
29	L2410579-04	1.0	0.0199	123.1334	0.5126	7.1964	0.1870	29/Feb/2024 17:43	CVN
30	L2410579-05	1.0	0.0109	30.5328	4.0260	87.6814	0.2173	29/Feb/2024 17:54	CVN
31	L2410579-06	1.0	0.0157	47.0067	0.4962	116.8558	0.4560	29/Feb/2024 18:05	CVN
32	L2410579-06; 10X	10.0	0.0372	50.3166	0.8720	126.1516	0.6475	29/Feb/2024 18:16	CVN
33	CCV	1.0	1.0330	9.9787	0.9929	20.3968	0.9332	29/Feb/2024 18:26	LOT#240227-C
34	CCB	1.0	0.0065	0.0174	0.0245	0.1848	0.0451	29/Feb/2024 18:37	CVN
35	L2410579-07	1.0	0.0164	27.1437	6.0564	108.5769	0.2764	29/Feb/2024 18:48	CVN

36	L2410579-08	1.0	0.0168	48.0763	0.3537	74.6734	0.2580	29/Feb/2024 18:59	CVN
37	L2410579-09	1.0	0.0155	47.0306	0.4938	115.1229	0.4006	29/Feb/2024 19:10	CVN
38	L2410579-09; 10X	10.0	0.0829	50.7640	0.9850	128.3971	0.6794	29/Feb/2024 19:21	CVN
39	L2410730-04 CL	1.0	27.7089	2.6652	1.5351	642.5871	n.a.	29/Feb/2024 19:32	CVN
40	L2410730-01; 10X	10.0	2.8806	118.7811	2.5408	36.7169	0.3156	29/Feb/2024 19:43	CVN
41	L2410730-02; 10X	10.0	0.3264	115.1088	0.7057	22.7473	0.2565	29/Feb/2024 19:54	CVN
42	L2410730-03 MS	1.0	0.4051	5.6663	0.4258	7.9588	0.4060	29/Feb/2024 20:05	CVN
43	L2410730-03 DUP	1.0	0.0071	1.7293	0.0468	0.1573	n.a.	29/Feb/2024 20:16	CVN
44	L2410730-03	1.0	0.0048	1.7451	0.0447	0.1574	0.0249	29/Feb/2024 20:27	CVN
45	XCCV	1.0	1.0568	11.1360	0.9788	19.8800	0.9843	29/Feb/2024 20:37	LOT#240227-C
46	CCV	1.0	1.0628	10.2642	1.0079	20.7231	0.9583	29/Feb/2024 20:51	LOT#240227-C
47	CCB	1.0	0.0039	0.0792	0.0260	0.1812	n.a.	29/Feb/2024 21:02	CVN
48	L2410579-02 MS	1.0	0.4619	13.3079	2.0706	65.8913	0.4404	29/Feb/2024 21:13	CVN
49	L2410579-02 DUP	1.0	0.0608	9.9132	1.7694	59.4222	0.1310	29/Feb/2024 21:24	CVN
50	L2410579-02	1.0	0.0592	9.8051	1.8044	58.8097	0.1309	29/Feb/2024 21:35	CVN
51	L2410579-01; 10X	10.0	0.1963	30.0835	n.a.	194.8633	0.2996	29/Feb/2024 21:46	CVN
52	L2410579-03; 10X	10.0	0.0569	15.0819	8.8506	127.6024	0.5664	29/Feb/2024 21:57	CVN
53	L2410579-04; 10X	10.0	0.0535	136.1181	0.7621	8.2071	0.6365	29/Feb/2024 22:08	CVN
54	L2410579-07; 10X	10.0	0.0431	27.7780	6.2020	117.1502	0.8120	29/Feb/2024 22:19	CVN
55	CCV	1.0	1.0677	10.1288	1.0107	20.7146	0.9737	29/Feb/2024 22:29	LOT#240227-C
56	CCB	1.0	0.0030	0.0555	0.0273	0.1768	n.a.	29/Feb/2024 22:40	CVN
57	BLK-2	1.0	0.0043	0.0284	0.0253	0.1601	n.a.	29/Feb/2024 22:51	CVN
58	LCS-2	1.0	0.8381	7.9733	0.7786	7.9815	0.8032	29/Feb/2024 23:02	LOT#240227-I
59	L2411140-15 SO4	1.0	0.0156	0.0384	0.0199	0.1555	n.a.	29/Feb/2024 23:13	CVN
60	L2411140-14	1.0	0.0452	0.0279	0.0164	0.1532	n.a.	29/Feb/2024 23:24	CVN
61	L2411140-13	1.0	0.0071	0.0075	0.0155	0.1579	0.0574	29/Feb/2024 23:35	CVN
62	L2411140-12	1.0	0.0077	0.0125	0.0188	0.1512	n.a.	29/Feb/2024 23:46	CVN
63	L2411140-11 MS	1.0	0.4042	4.1527	0.3798	8.0188	0.0268	29/Feb/2024 23:57	CVN
64	L2411140-11 DUP	1.0	0.0101	0.0350	0.0191	0.1624	n.a.	01/Mar/2024 00:08	CVN
65	L2411140-11	1.0	0.0086	0.0029	n.a.	0.1545	n.a.	01/Mar/2024 00:19	CVN
66	L2411140-01	1.0	0.0263	0.0411	0.0166	0.1555	n.a.	01/Mar/2024 00:30	CVN
67	CCV	1.0	1.0732	10.3062	0.9876	20.5169	1.0013	01/Mar/2024 00:40	LOT#240227-C
68	CCB	1.0	0.0038	0.0525	0.0193	0.1827	n.a.	01/Mar/2024 00:51	CVN
69	L2411140-10 MS	1.0	0.4140	3.9895	0.3768	8.0197	0.3843	01/Mar/2024 01:02	CVN
70	L2411140-10 DUP	1.0	0.0249	0.0302	0.0184	0.1632	n.a.	01/Mar/2024 01:13	CVN
71	L2411140-10	1.0	0.0120	0.0340	0.0161	0.1601	n.a.	01/Mar/2024 01:24	CVN
72	L2411140-09	1.0	n.a.	n.a.	n.a.	n.a.	n.a.	01/Mar/2024 01:35	CVN
73	L2411140-08	1.0	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	CVN
74	L2411140-07	1.0	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	CVN
75	L2411140-06	1.0	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	CVN
76	L2411140-05	1.0	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	CVN

77	L2411140-04	1.0	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	CVN
78	L2411140-03	1.0	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	CVN
79	CCV	1.0	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	LOT#240227-C
80	CCB	1.0	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	CVN
81	L2411140-02	1.0	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	CVN
82	CCV	1.0	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	CVN
83	CCB	1.0	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	CVN
	Sum:			1483.726	75.057	6924.246			0.000
	Average:			20.898	1.155	97.525			#DIV/0!
	Rel.Std.Dev:			162.805 %	165.980 %	276.916 %			#DIV/0!

Quality Control

Form 5a
Matrix Spike

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Client Sample ID	: MW-2S	**Matrix**	: WATER
Lab Sample ID	: L2410579-02		
Matrix Spike	: WG1890909-3	**MS Analysis Date**	: 02/29/24 21:13
Matrix Spike Dup	:	**MSD Analysis Date**	:

		Matrix Spike Sample				Matrix Spike Duplicate					
Parameter	Sample Conc. (mg/l)	Spike Added (mg/l)	Spike Conc. (mg/l)	%R		Spike Added (mg/l)	Spike Conc. (mg/l)	%R	RPD	Recovery Limits	RPD Limit
Bromide	0.131	0.8	0.440	78	Q					90-110	20
Chloride	9.80	8	13.3	88	Q					90-110	18
Fluoride	0.059	0.4	0.462	100						90-110	15
Sulfate	58.8	8	65.9	89	Q					90-110	20

Form 6
Lab Duplicates

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Client Sample ID	: MW-2S	**Matrix**	: WATER
Lab Sample ID	: L2410579-02	**Analysis Date**	: 02/29/24 21:35
Dup Sample ID	: WG1890909-4	**DUP Analysis Date**	: 02/29/24 21:24

Parameter	Sample Concentration (mg/l)	Duplicate Concentration (mg/l)	RPD	RPD Limit
Bromide	0.131	0.131	0	20
Chloride	9.80	9.91	1	18
Fluoride	0.059	0.060	3	15
Sulfate	58.8	59.4	1	20

Form 7
Laboratory Control Sample

Client	: Alpha Geoscience	**Lab Number**	: L2410579
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: WG1890909-2	**LCS Analysis Date**	: 02/29/24 14:53
Dup Sample ID	:	**LCSD Analysis Date**	:

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	**True (mg/l)**	**Found (mg/l)**	**%R**	**True (mg/l)**	**Found (mg/l)**	**%R**	**RPD**	**Recovery Limits**	**RPD Limit**
Bromide	0.800	0.760	95.					90-110	20
Chloride	8.00	7.88	98.					90-110	18
Fluoride	0.800	0.821	103.					90-110	15
Sulfate	8.00	7.91	99.					90-110	20

Date Created: 11/11/21
Created By: Jason Hebert
File: PM11467-1
Page: 1

WETCHEM (WATER)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Method	Holding Time	Container/Sample Preservation
Bromide	24959-67-9	0.05	0.0132	mg/l	90-110		90-110	20	20	300.0	28 days	1 - Plastic 250ml unpreserved
Chloride	16887-00-6	0.5	0.0839	mg/l	90-110		64-148	18	18	9056	28 days	1 - Plastic 250ml unpreserved
Chloride	16887-00-6	0.5	0.0839	mg/l	90-110		90-110	18	18	300.0	28 days	1 - Plastic 250ml unpreserved
Fluoride	16984-48-8	0.05	0.037	mg/l	90-110		81-124	15	15	9056	28 days	1 - Plastic 500ml unpreserved
Fluoride	16984-48-8	0.05	0.037	mg/l	90-110		90-110	15	15	300.0	28 days	1 - Plastic 500ml unpreserved
Nitrogen, Nitrate	14797-55-8	0.05	0.0128	mg/l	90-110		90-110	15	15	300.0	48 hours	1 - Plastic 250ml unpreserved
Nitrogen, Nitrate	14797-55-8	0.05	0.0128	mg/l	90-110		80-120	15	15	9056	48 hours	1 - Plastic 250ml unpreserved
Sulfate	14808-79-8	1	0.454	mg/l	90-110		72-124	20	20	9056	28 days	1 - Plastic 500ml unpreserved
Sulfate	14808-79-8	1	0.454	mg/l	90-110		90-110	20	20	300.0	28 days	1 - Plastic 500ml unpreserved

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

Calculations of Anions by Ion Chromatography

Aqueous samples:

The Dionex calculates the area of the peaks produced by the instrument, compares them to the peak area of the calibration standard stored in its memory, and calculates result in mg/L.

If the sample was manually diluted prior to analysis, the calculated mean must be manually multiplied by the dilution factor. The Reported Detection Limit is also multiplied by the same dilution factor.

$$\text{Result, mg/L} = \frac{\text{area - y-intercept}}{\text{slope}} \times \text{Dilution Factor}$$

Subcontracted Data

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

March 13, 2024

Pace MA
Pace MA
Eight Walkup Drive
Westborough, MA 01581

RE: Project: L2410579
Pace Project No.: 50367195

Dear Pace MA:

Enclosed are the analytical results for sample(s) received by the laboratory on March 01, 2024. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Indianapolis

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Tina Sayer

Tina Sayer
tina.sayer@pacelabs.com
(317)228-3127
Project Manager

Enclosures

cc: Melissa Deyo, Pace MA

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

CERTIFICATIONS

Project: L2410579
Pace Project No.: 50367195

Pace Analytical Services Indianapolis

7726 Moller Road, Indianapolis, IN 46268
Illinois Accreditation #: 200074
Indiana Drinking Water Laboratory #: C-49-06
Kansas/TNI Certification #: E-10177
Kentucky UST Agency Interest #: 80226
Kentucky WW Laboratory ID #: 98019
Michigan Drinking Water Laboratory #9050
Ohio VAP Certified Laboratory #: CL0065
Oklahoma Laboratory #: 9204
Texas Certification #: T104704355
Washington Dept of Ecology #: C1081
Wisconsin Laboratory #: 999788130
USDA Foreign Soil Permit #: 525-23-13-23119
USDA Compliance Agreement #: IN-SL-22-001

REPORT OF LABORATORY ANALYSIS

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Indianapolis, IN 46268
(317)228-3100

SAMPLE SUMMARY

Project: L2410579
Pace Project No.: 50367195

Lab ID	Sample ID	Matrix	Date Collected	Date Received
50367195001	**MW-1S**	Water	02/26/24 14:10	03/01/24 10:00
50367195002	**MW-2S**	Water	02/26/24 15:25	03/01/24 10:00
50367195003	**MW-3S**	Water	02/26/24 16:30	03/01/24 10:00
50367195004	**MW-4D**	Water	02/27/24 09:05	03/01/24 10:00
50367195005	**MW-5S**	Water	02/27/24 08:45	03/01/24 10:00
50367195006	**MW-6D**	Water	02/26/24 16:35	03/01/24 10:00
50367195007	**MW-7S**	Water	02/26/24 14:45	03/01/24 10:00
50367195008	**MW-8S**	Water	02/27/24 10:25	03/01/24 10:00
50367195009	**DUP**	Water	02/26/24 00:00	03/01/24 10:00

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SAMPLE ANALYTE COUNT

Project: L2410579
Pace Project No.: 50367195

Lab ID	Sample ID	Method	Analysts	Analytes Reported
50367195001	**MW-1S**	EPA 9056	ADM	1
50367195002	**MW-2S**	EPA 9056	ADM	1
50367195003	**MW-3S**	EPA 9056	ADM	1
50367195004	**MW-4D**	EPA 9056	ADM	1
50367195005	**MW-5S**	EPA 9056	ADM	1
50367195006	**MW-6D**	EPA 9056	ADM	1
50367195007	**MW-7S**	EPA 9056	ADM	1
50367195008	**MW-8S**	EPA 9056	ADM	1
50367195009	**DUP**	EPA 9056	ADM	1

PASI-I = Pace Analytical Services - Indianapolis

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ANALYTICAL RESULTS

Project: L2410579
Pace Project No.: 50367195

Sample: MW-1S **Lab ID: 50367195001** Collected: 02/26/24 14:10 Received: 03/01/24 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 Iodide by IC	Analytical Method: EPA 9056 Pace Analytical Services - Indianapolis							
Iodide	ND	mg/L	0.50	1		03/09/24 16:51		

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ANALYTICAL RESULTS

Project: L2410579
Pace Project No.: 50367195

Sample: MW-2S **Lab ID: 50367195002** Collected: 02/26/24 15:25 Received: 03/01/24 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 Iodide by IC	Analytical Method: EPA 9056 Pace Analytical Services - Indianapolis							
Iodide	ND	mg/L	0.50	1		03/09/24 17:19		

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ANALYTICAL RESULTS

Project: L2410579
Pace Project No.: 50367195

Sample: MW-3S **Lab ID: 50367195003** Collected: 02/26/24 16:30 Received: 03/01/24 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 Iodide by IC	Analytical Method: EPA 9056 Pace Analytical Services - Indianapolis							
Iodide	ND	mg/L	0.50	1		03/09/24 17:47		

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ANALYTICAL RESULTS

Project: L2410579
Pace Project No.: 50367195

Sample: MW-4D **Lab ID: 50367195004** Collected: 02/27/24 09:05 Received: 03/01/24 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 Iodide by IC	Analytical Method: EPA 9056 Pace Analytical Services - Indianapolis							
Iodide	ND	mg/L	0.50	1		03/09/24 18:14		

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ANALYTICAL RESULTS

Project: L2410579
Pace Project No.: 50367195

Sample: MW-5S **Lab ID: 50367195005** Collected: 02/27/24 08:45 Received: 03/01/24 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 Iodide by IC	Analytical Method: EPA 9056 Pace Analytical Services - Indianapolis							
Iodide	ND	mg/L	0.50	1		03/09/24 18:42		

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ANALYTICAL RESULTS

Project: L2410579
Pace Project No.: 50367195

Sample: MW-6D **Lab ID: 50367195006** Collected: 02/26/24 16:35 Received: 03/01/24 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 Iodide by IC	Analytical Method: EPA 9056 Pace Analytical Services - Indianapolis							
Iodide	ND	mg/L	0.50	1		03/09/24 19:10		

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ANALYTICAL RESULTS

Project: L2410579
Pace Project No.: 50367195

Sample: MW-7S **Lab ID: 50367195007** Collected: 02/26/24 14:45 Received: 03/01/24 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 Iodide by IC	Analytical Method: EPA 9056 Pace Analytical Services - Indianapolis							
Iodide	ND	mg/L	0.50	1		03/09/24 19:38		

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ANALYTICAL RESULTS

Project: L2410579
Pace Project No.: 50367195

Sample: MW-8S **Lab ID: 50367195008** Collected: 02/27/24 10:25 Received: 03/01/24 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 Iodide by IC	Analytical Method: EPA 9056 Pace Analytical Services - Indianapolis							
Iodide	ND	mg/L	0.50	1		03/09/24 20:06		

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ANALYTICAL RESULTS

Project: L2410579
Pace Project No.: 50367195

Sample: DUP **Lab ID: 50367195009** Collected: 02/26/24 00:00 Received: 03/01/24 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 Iodide by IC	Analytical Method: EPA 9056 Pace Analytical Services - Indianapolis							
Iodide	ND	mg/L	0.50	1		03/09/24 21:29		

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QUALITY CONTROL DATA

Project: L2410579
Pace Project No.: 50367195

QC Batch: 779307
QC Batch Method: EPA 9056
Analysis Method: EPA 9056
Analysis Description: 9056 Iodide by IC
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50367195001, 50367195002, 50367195003, 50367195004, 50367195005, 50367195006, 50367195007, 50367195008, 50367195009

METHOD BLANK: 3566399 Matrix: Water
Associated Lab Samples: 50367195001, 50367195002, 50367195003, 50367195004, 50367195005, 50367195006, 50367195007, 50367195008, 50367195009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Iodide	mg/L	ND	0.50	03/09/24 15:49	

LABORATORY CONTROL SAMPLE: 3566400

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iodide	mg/L	5	4.7	95	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3566401 3566402

Parameter	Units	50367195009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Iodide	mg/L	ND	5	5	4.7	4.7	86	87	80-120	2	15	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALIFIERS

Project: L2410579
Pace Project No.: 50367195

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

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Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: L2410579
Pace Project No.: 50367195

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50367195001	**MW-1S**	EPA 9056	779307		
50367195002	**MW-2S**	EPA 9056	779307		
50367195003	**MW-3S**	EPA 9056	779307		
50367195004	**MW-4D**	EPA 9056	779307		
50367195005	**MW-5S**	EPA 9056	779307		
50367195006	**MW-6D**	EPA 9056	779307		
50367195007	**MW-7S**	EPA 9056	779307		
50367195008	**MW-8S**	EPA 9056	779307		
50367195009	**DUP**	EPA 9056	779307		

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WO# : 50367195

50367195

Subcontract Chain of Custody

Pace Analytical (Indianapolis, IN)
7726 Moller Road
Indianapolis, IN 46268

Alpha Job Number
L2410579

Client Information	Project Information	Regulatory Requirements/Report Limits
Client: Alpha Analytical Labs Address: Eight Walkup Drive Westborough, MA 01581-1019 Phone: 716.427.5229 Email: Melissa.Deyo@pacelabs.com	Project Location: NY Project Manager: Melissa Deyo **Turnaround & Deliverables Information** Due Date: Deliverables:	State/Federal Program: Regulatory Criteria:

Project Specific Requirements and/or Report Requirements

Reference following Alpha Job Number on final report/deliverables: L2410579

Report to include Method Blank, LCS/LCSD:

Additional Comments: Send all results/reports to subreports@alphalab.com ;Profile # 11351-1

Lab ID	Client ID	Collection Date/Time	Sample Matrix	Analysis	Batch QC
	MW-1S	02-26-24 14:10	WATER	Iodide	
	MW-2S	02-26-24 15:25	WATER	Iodide	
	MW-3S	02-26-24 16:30	WATER	Iodide	
	MW-4D	02-27-24 09:05	WATER	Iodide	
	MW-5S	02-27-24 08:40	WATER	Iodide	
	MW-6D	02-26-24 16:35	WATER	Iodide	
	MW-7S	02-26-24 14:45	WATER	Iodide	
	MW-8S	02-27-24 10:25	WATER	Iodide	
	DUP	02-26-24 00:00	WATER	Iodide	

	Relinquished By:	Date/Time:	Received By:	Date/Time:
	UPS	2/29/24 3/1/24 10:00	UPS	3/1/24 10:00
Form No: AL_subcoc				

Pace

SAMPLE CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents: 3/1/24 21:40 JG

1. **Courier:** ☐ FED EX ☑ UPS ☐ CLIENT ☐ PACE ☐ NOW/JETT ☐ OTHER _____

2. **Custody Seal on Cooler/Box Present:** ☑ Yes ☐ No

(If yes)Seals Intact: ☑ Yes ☐ No **(leave blank if no seals were present)**

3. **Thermometer:** 1 2 3 4 5 6 7 8 A B C D E F (G) H

4. **Cooler Temperature(s):** 04/0.4 | | | |

(Initial/Corrected) RECORD TEMPS OF ALL COOLERS RECEIVED (use Comments below to add more)

5. **Packing Material:** ☐ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other _____

6. **Ice Type:** ☑ Wet ☐ Blue ☐ None

7. **If temp. is over 6°C or under 0°C, was the PM notified?:** ☐ Yes ☐ No

Cooler temp should be above freezing to 6°C

All discrepancies will be written out in the comments section below.

	Yes	No		Yes	No	N/A
USDA Regulated Soils? (HI, ID, NY, WA, OR,CA, NM, TX, OK, AR, LA, TN, AL, MS, NC, SC, GA, FL, or Puerto Rico)		—	All containers needing acid/base preservation have been pH CHECKED?: **Exceptions: VOA, coliform, LLHg, O&G, RAD CHEM, and any container with a septum cap or preserved with HCl.** **Circle:** **HNO3 (<2) H2SO4 (<2) NaOH (>10) NaOH/ZnAc (>9)** Any non-conformance to pH recommendations will be noted on the container count form			
Short Hold Time Analysis (48 hours or less)? Analysis:		—				—
Time 5035A TC placed in Freezer or Short Holds To Lab	Time:			Present	Absent	N/A
			Residual Chlorine Check (SVOC 625 Pest/PCB 608)			—
Rush TAT Requested (4 days or less):		—	Residual Chlorine Check (Total/Amenable/Free Cyanide)			—
Custody Signatures Present?	—		Headspace Wisconsin Sulfide?			—
Containers Intact?:	—		Headspace in VOA Vials (>6mm): See Containter Count form for details	Present	Absent	No VOA Vials Sent —
Sample Label (IDs/Dates/Times) Match COC?: Except TCs, which only require sample ID	—		Trip Blank Present?		—	
Extra labels on Terracore Vials? (soils only)			Trip Blank Custody Seals?:			—

COMMENTS:

COC PAGE ____ of ____

Sample Container Count

** Place a RED dot on containers that are out of conformance **

									AMBER GLASS							PLASTIC								OTHER					Nitric	Sulfuric	Sodium Hydroxide	Sodium Hydroxide/ ZnAc
			MeOH (only)																									Red	Yellow	Green	Black
			SBS																												
			DI																												
COC Line Item	WGFU	WGKU BG1U	R	DG9H VG9H	VOA VIAL HS >6mm	VG9U DG9U	VG9T	AG0U	AG1H	AG1U	AG3U	AG3S	AG3SF	AG3B	BP1U	BP1N	BP2U	BP3U	BP3N	BP3F	BP3S	BP3B	BP3Z	CG3H	CG3F	Syringe Kit		Matrix	HNO3 <2	H2SO4 <2	NaOH >10	NaOH/Zn Ac >9
1																											WT				
2																															
3																															
4																															
5																															
6																															
7																															
8																															
9																															
10																															
11																															
12																															

Container Codes

Glass

DG9H	40mL HCl amber voa vial	BG1T	glass
DG9P	40mL TSP amber vial	BG1U	1L unpreserved glass
DG9S	40mL H2SO4 amber vial	CG3U	250mL Unpres Clear Glass
DG9T	40mL Na Thio amber vial	AG0U	100mL unpres amber glass
DG9U	40mL unpreserved amber vial	AG1H	1L HCl amber glass
VG9H	40mL HCl clear vial	AG1S	1L H2SO4 amber glass
VG9T	40mL Na Thio. clear vial	AG1T	1L Na Thiosulfate amber glass
VG9U	40mL unpreserved clear vial	AG1U	1liter unpres amber glass
I	40mL w/hexane wipe vial	AG2N	500mL HNO3 amber glass
WGKU	8oz unpreserved clear jar	AG2S	500mL H2SO4 amber glass
WGFU	4oz clear soil jar	AG2U	500mL unpres amber glass
JGFU	4oz unpreserved amber wide	AG3S	250mL H2SO4 amber glass
CG3H	250mL clear glass HCl	AG3SF	250mL H2SO4 amb glass -field filtered
CG3F	250mL clear glass HCl, Field Filter	AG3U	250mL unpres amber glass
BG1H	1L HCl clear glass	AG3B	250mL NaOH amber glass
BG1S	1L H2SO4 clear glass		

Plastic

BP1B	1L NaOH plastic	BP4U	125mL unpreserved plastic
BP1N	1L HNO3 plastic	BP4N	125mL HNO3 plastic
BP1S	1L H2SO4 plastic	BP4S	125mL H2SO4 plastic
BP1U	1L unpreserved plastic		
BP1Z	1L NaOH, Zn, Ac		
BP2N	500mL HNO3 plastic		
BP2C	500mL NaOH plastic		
BP2S	500mL H2SO4 plastic		
BP2U	500mL unpreserved plastic		
BP2Z	500mL NaOH, Zn Ac		
BP3B	250mL NaOH plastic		
BP3N	250mL HNO3 plastic		
BP3F	250mL HNO3 plastic-field filtered		
BP3U	250mL unpreserved plastic		
BP3S	250mL H2SO4 plastic		
BP3Z	250mL NaOH, ZnAc plastic		
BP3R	250mL Unpres. FF SO4/OH buffer		

Miscellaneous

Syringe Kit	LL Cr+6 sampling kit
ZPLC	Ziploc Bag
R	Terracore Kit
SP5T	120mL Coliform Sodium Thiosulfate
GN	General Container
U	Summa Can (air sample)
WT	Water
SL	Solid
OL:	Oil
NAL	Non-aqueous liquid
WP	Wipe